■ 청도1교 부산방향(S11~S15)
상부 output

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
1

D I S P L A C E M E N T D E G R E E S O F F R E E D O M

(A) = Active DOF, equilibrium equation
(-) = Restrained DOF, reaction computed
(+) = Constrained DOF
(>) = External substructure DOF
( ) = Null DOF

JOINTS		U1	U2	U3	R1	R2	R3
1	TO 270	A	A	A	A	A	A
271	TO 272	A	-	-	A	A	A
273		-	-	-	A	A	A
274	TO 278	A	-	-	A	A	A
279		-	-	-	A	A	A
280	TO 282	A	-	-	A	A	A
283	TO 284	A	A	-	A	A	A
285		-	A	-	A	A	A
286	TO 288	A	A	-	A	A	A

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
2

T O T A L A S S E M B L E D J O I N T M A S S E S

IN GLOBAL COORDINATES

UX	UY	UZ
RX	RY	RZ
TOTAL	.000000	.000000	.000000
.000000	.000000	.000000	

T O T A L A C C E L E R A T E D M A S S A N D L O C A T I O N

TOTAL MASS ACTIVATED BY ACCELERATION LOADS, IN GLOBAL COORDINATES

	UX	UY	UZ
MASS	.000000	.000000	.000000
X-LOC	.000000	.000000	.000000
Y-LOC	.000000	.000000	.000000
Z-LOC	.000000	.000000	.000000

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
3

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

LOAD STEEL ----------

JOINT	U1	U2	U3
R1	R2	R3	
1	7.97E-05	0.000102	-1.64E-07
-0.000107	0.000978	7.07E-07	
2	7.85E-05	0.000106	-0.004263
-9.58E-05	0.000881	1.38E-06	
3	7.64E-05	0.000114	-0.008089
-6.53E-05	0.000628	1.74E-06	
4	7.47E-05	0.000119	-0.010431
-2.75E-05	0.000296	7.00E-08	
5	7.42E-05	0.000113	-0.011010
1.21E-05	-6.34E-05	-2.36E-06	
6	7.48E-05	9.58E-05	-0.009857
4.61E-05	-0.000382	-4.49E-06	
7	7.63E-05	6.99E-05	-0.007358
6.71E-05	-0.000588	-5.81E-06	
8	7.83E-05	3.99E-05	-0.004250
6.88E-05	-0.000618	-6.19E-06	
9	8.03E-05	1.02E-05	-0.001480
5.14E-05	-0.000453	-5.60E-06	
10	8.18E-05	-1.27E-05	-6.87E-07
2.04E-05	-0.000108	-3.25E-06	
11	8.22E-05	-2.05E-05	-9.44E-05
2.09E-06	0.000150	-1.44E-06	
12	8.20E-05	-2.44E-05	-0.001479
-9.87E-06	0.000378	-1.83E-07	
13	8.14E-05	-2.35E-05	-0.003585
-1.04E-05	0.000440	5.28E-07	
14	8.05E-05	-2.02E-05	-0.005609
-2.88E-06	0.000348	7.94E-07	
15	7.92E-05	-1.68E-05	-0.006849
9.98E-06	0.000139	5.70E-07	
16	7.82E-05	-1.51E-05	-0.006919
2.35E-05	-0.000109	8.78E-08	
17	7.73E-05	-1.57E-05	-0.005799
3.38E-05	-0.000326	-2.93E-07	
18	7.66E-05	-1.73E-05	-0.003840
3.68E-05	-0.000432	-3.13E-07	
19	7.60E-05	-1.80E-05	-0.001723
3.11E-05	-0.000388	2.89E-08	
20	7.55E-05	-1.60E-05	-0.000232
1.87E-05	-0.000181	8.75E-07	
21	7.51E-05	-1.07E-05	-6.61E-07
8.94E-06	6.26E-05	2.37E-06	
22	7.46E-05	4.38E-07	-0.000667
3.97E-06	0.000306	3.81E-06	
23	7.37E-05	2.11E-05	-0.002773
3.55E-06	0.000512	4.39E-06	
24	7.27E-05	4.27E-05	-0.005491
6.02E-06	0.000552	4.21E-06	
25	7.16E-05	6.17E-05	-0.008013
8.86E-06	0.000431	3.34E-06	
26	7.05E-05	7.45E-05	-0.009561
1.11E-05	0.000176	1.73E-06	
27	6.93E-05	7.82E-05	-0.009696
1.19E-05	-0.000123	-2.75E-07	
28	6.82E-05	7.19E-05	-0.008378
1.10E-05	-0.000395	-2.25E-06	
29	6.73E-05	5.67E-05	-0.005976
8.65E-06	-0.000541	-3.79E-06	
30	6.64E-05	3.52E-05	-0.003232
5.56E-06	-0.000534	-4.83E-06	
31	6.56E-05	1.29E-05	-0.000924
4.21E-06	-0.000365	-5.28E-06	
32	6.50E-05	-7.88E-06	-6.26E-07
7.30E-06	-0.000150	-4.61E-06	
33	6.44E-05	-2.23E-05	0.000122
1.52E-05	6.72E-05	-3.84E-06	
34	6.34E-05	-4.12E-05	-0.000733
2.64E-05	-0.000249	-3.74E-06	
35	6.22E-05	-6.00E-05	-0.002129
3.27E-05	0.000286	-3.74E-06	
36	6.06E-05	-7.84E-05	-0.003385
3.22E-05	0.000193	-3.60E-06	
37	5.89E-05	-9.57E-05	-0.003904
2.57E-05	5.02E-06	-3.29E-06	
38	5.71E-05	-0.000110	-0.003433
1.69E-05	-0.000192	-2.56E-06	
39	5.56E-05	-0.000120	-0.002110
9.17E-06	-0.000324	-1.13E-06	
40	5.48E-05	-0.000121	-0.000437
6.18E-06	-0.000324	8.27E-07	
41	5.48E-05	-0.000111	0.000870
9.67E-06	-0.000174	2.87E-06	
42	5.57E-05	-9.07E-05	0.001019
2.26E-05	0.000140	5.56E-06	
43	5.72E-05	-6.51E-05	-7.41E-07
4.01E-05	0.000455	9.74E-06	
44	6.11E-05	-7.94E-07	-0.003400
7.35E-05	0.000873	1.51E-05	
45	6.60E-05	7.69E-05	-0.008395
9.17E-05	0.001086	1.59E-05	
46	7.09E-05	0.000155	-0.013885
8.83E-05	0.001068	1.52E-05	
47	7.52E-05	0.000225	-0.018711
6.24E-05	0.000827	1.30E-05	
48	7.81E-05	0.000282	-0.021884
1.97E-05	0.000422	9.36E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
4

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	7.90E-05	0.000316	-0.022770
-3.22E-05	-7.35E-05	-4.41E-06	
50	7.72E-05	0.000325	-0.021083
-8.63E-05	-0.000592	-1.21E-06	
51	7.26E-05	0.000306	-0.016880
-0.000136	-0.001066	-6.51E-06	
52	6.53E-05	0.000265	-0.010511
-0.000176	-0.001452	-9.92E-06	
53	5.70E-05	0.000214	-0.002547
-0.000199	-0.001681	-1.02E-05	
54	5.47E-05	0.000199	-2.00E-07
-0.000198	-0.001697	-9.99E-06	
55	6.63E-05	6.58E-05	-2.00E-07
-0.000131	0.000978	7.19E-06	
56	6.30E-05	9.38E-05	-0.004246
-0.000124	0.000878	5.15E-06	
57	6.12E-05	0.000111	-0.008040
-0.000100	0.000621	2.02E-06	
58	6.09E-05	0.000114	-0.010356
-6.66E-05	0.000290	-3.25E-07	
59	6.19E-05	0.000107	-0.010929
-2.81E-05	-6.67E-05	-1.21E-06	
60	6.38E-05	9.07E-05	-0.009795
7.95E-06	-0.000383	-4.30E-06	
61	6.64E-05	6.66E-05	-0.007328
3.42E-05	-0.000588	-5.45E-06	
62	6.91E-05	3.95E-05	-0.004247
4.45E-05	-0.000621	-5.45E-06	
63	7.14E-05	1.55E-05	-0.001483
3.67E-05	-0.000459	-4.23E-06	
64	7.30E-05	-2.36E-06	-7.83E-07
1.13E-05	-0.000107	-3.31E-06	
65	7.39E-05	-1.30E-05	-0.000111
-1.09E-05	0.000156	-2.60E-06	
66	7.46E-05	-2.14E-05	-0.001515
-3.16E-05	0.000380	-1.85E-07	
67	7.48E-05	-2.25E-05	-0.003616
-4.08E-05	0.000437	3.06E-07	
68	7.47E-05	-2.02E-05	-0.005622
-3.92E-05	0.000344	6.59E-07	
69	7.46E-05	-1.73E-05	-0.006847
-2.93E-05	0.000135	5.01E-07	
70	7.46E-05	-1.48E-05	-0.006915
-1.59E-05	-0.000111	1.27E-07	
71	7.47E-05	-1.57E-05	-0.005807
-2.54E-06	-0.000327	-1.77E-07	
72	7.48E-05	-1.64E-05	-0.003864
6.65E-06	-0.000433	-9.48E-08	
73	7.46E-05	-1.60E-05	-0.001751
9.94E-06	-0.000393	6.59E-07	
74	7.47E-05	-8.45E-06	-0.000244
6.76E-06	-0.000187	1.97E-06	
75	7.45E-05	-5.96E-07	-7.61E-07
4.92E-07	6.21E-05	2.34E-06	
76	7.43E-05	7.72E-06	-0.000674
-8.29E-06	0.000310	2.66E-06	
77	7.39E-05	2.35E-05	-0.002790
-1.78E-05	0.000514	3.70E-06	
78	7.36E-05	4.26E-05	-0.005496
-2.40E-05	0.000550	3.93E-06	
79	7.35E-05	6.02E-05	-0.007994
-2.74E-05	0.000429	3.17E-06	
80	7.34E-05	7.22E-05	-0.009524
-2.83E-05	0.000175	1.64E-06	
81	7.35E-05	7.57E-05	-0.009657
-2.75E-05	-0.000123	-2.31E-07	
82	7.36E-05	7.00E-05	-0.008353
-2.52E-05	-0.000393	-2.11E-06	
83	7.35E-05	5.60E-05	-0.005973
-2.13E-05	-0.000540	-3.53E-06	
84	7.34E-05	3.69E-05	-0.003241
-1.56E-05	-0.000536	-4.15E-06	
85	7.31E-05	1.65E-05	-0.000927
-7.78E-06	-0.000369	-4.11E-06	
86	7.28E-05	1.89E-06	-7.25E-07
-8.33E-07	-0.000149	-4.53E-06	
87	7.24E-05	-1.48E-05	0.000104
3.55E-06	7.42E-05	-4.84E-06	
88	7.19E-05	-3.75E-05	-0.000776
5.62E-06	0.000255	-4.26E-06	
89	7.13E-05	-5.77E-05	-0.002180
3.05E-06	0.000289	-3.84E-06	
90	7.07E-05	-7.03E-05	-0.003431
-3.70E-06	0.000195	-3.62E-06	
91	7.01E-05	-9.37E-05	-0.003947
-1.32E-05	7.31E-06	-3.28E-06	
92	6.96E-05	-0.000108	-0.003484
-2.16E-05	-0.000188	-2.52E-06	
93	6.92E-05	-0.000117	-0.002178
-2.54E-05	-0.000321	-1.11E-06	
94	6.94E-05	-0.000118	-0.000516
-2.11E-05	-0.000324	1.11E-06	
95	7.03E-05	-0.000104	0.000800
-7.52E-06	-0.000179	4.50E-06	
96	7.27E-05	-7.16E-05	0.000986
1.67E-05	0.000131	8.72E-06	
97	7.51E-05	-3.54E-05	-8.33E-07
4.07E-05	0.000450	9.84E-06	
98	7.93E-05	1.12E-05	-0.003373
6.42E-05	0.000873	1.11E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
5

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	8.48E-05	7.33E-05	-0.008327
6.98E-05	0.001084	1.39E-05	
100	9.13E-05	0.000144	-0.013753
5.56E-05	0.001063	1.44E-05	
101	9.79E-05	0.000210	-0.018509
2.27E-05	0.000823	1.25E-05	
102	0.000104	0.000264	-0.021631
-2.37E-05	0.000422	9.05E-06	
103	0.000108	0.000297	-0.022499
-7.67E-05	-6.58E-05	4.50E-06	
104	0.000109	0.000307	-0.020835
-0.000129	-0.000582	-4.94E-07	
105	0.000108	0.000293	-0.016692
-0.000175	-0.001052	-5.53E-06	
106	0.000104	0.000253	-0.010408
-0.000208	-0.001439	-1.12E-05	
107	9.56E-05	0.000181	-0.002529
-0.000223	-0.001674	-1.89E-05	
108	9.21E-05	0.000152	-2.42E-07
-0.000224	-0.001691	-2.04E-05	
109	5.98E-05	6.41E-05	-1.52E-07
-0.000136	0.000947	4.50E-06	
110	5.78E-05	8.20E-05	-0.004097
-0.000141	0.000852	3.59E-06	
111	5.68E-05	9.39E-05	-0.007780
-0.000128	0.000605	1.41E-06	
112	5.73E-05	9.56E-05	-0.010039
-0.000101	0.000281	-6.69E-07	
113	5.89E-05	8.78E-05	-0.010600
-6.48E-05	-6.93E-05	-2.44E-06	
114	6.12E-05	7.26E-05	-0.009493
-2.85E-05	-0.000380	-3.76E-06	
115	6.38E-05	5.24E-05	-0.007088
9.28E-07	-0.000579	-4.43E-06	
116	6.62E-05	3.09E-05	-0.004094
1.71E-05	-0.000607	-4.30E-06	
117	6.82E-05	1.13E-05	-0.001427
1.57E-05	-0.000445	-3.72E-06	
118	6.97E-05	-5.41E-06	-6.87E-07
-6.35E-06	-0.000108	-3.13E-06	
119	7.06E-05	-1.54E-05	-9.00E-05
-2.83E-05	0.000144	-2.67E-06	
120	7.16E-05	-2.63E-05	-0.001423
-5.53E-05	0.000365	-1.68E-06	
121	7.23E-05	-3.20E-05	-0.003451
-7.12E-05	0.000424	-6.24E-07	
122	7.28E-05	-3.33E-05	-0.005400
-7.47E-05	0.000335	5.94E-08	
123	7.30E-05	-3.22E-05	-0.006595
-6.75E-05	0.000131	2.98E-07	
124	7.38E-05	-3.07E-05	-0.006661
-5.42E-05	-0.000111	3.10E-07	
125	7.43E-05	-2.90E-05	-0.005582
-3.84E-05	-0.000322	4.08E-07	
126	7.46E-05	-2.59E-05	-0.003694
-2.43E-05	-0.000424	6.26E-07	
127	7.46E-05	-2.01E-05	-0.001655
-1.41E-05	-0.000380	1.51E-06	
128	7.45E-05	-1.09E-05	-0.000220
-1.08E-05	-0.000177	2.11E-06	
129	7.43E-05	-3.26E-06	-6.62E-07
-1.56E-05	6.14E-05	2.31E-06	
130	7.43E-05	4.97E-06	-0.000646
-2.51E-05	0.000299	2.47E-06	
131	7.45E-05	1.78E-05	-0.002683
-4.09E-05	0.000499	2.79E-06	
132	7.48E-05	3.19E-05	-0.005308
-5.42E-05	0.000538	2.94E-06	
133	7.55E-05	4.55E-05	-0.007743
-6.29E-05	0.000421	2.56E-06	
134	7.65E-05	5.52E-05	-0.009238
-6.66E-05	0.000172	1.40E-06	
135	7.77E-05	5.86E-05	-0.009369
-6.58E-05	-0.000121	-4.49E-08	
136	7.88E-05	5.49E-05	-0.008096
-6.08E-05	-0.000585	-1.49E-06	
137	7.97E-05	4.48E-05	-0.005776
-5.17E-05	-0.000528	-2.56E-06	
138	8.02E-05	3.05E-05	-0.003126
-3.91E-05	-0.000521	-3.25E-06	
139	8.03E-05	1.30E-05	-0.000895
-2.49E-05	-0.000357	-3.93E-06	
140	8.03E-05	-1.40E-06	-6.26E-07
-1.73E-05	-0.000147	-4.43E-06	
141	8.02E-05	-1.75E-05	0.000122
-1.42E-05	6.50E-05	-4.84E-06	
142	7.99E-05	-4.20E-05	-0.000696
-1.86E-05	0.000243	-4.97E-06	
143	7.97E-05	-6.59E-05	-0.002037
-2.80E-05	0.000380	-4.94E-06	
144	7.96E-05	-8.76E-05	-0.003243
-3.99E-05	0.000191	-4.12E-06	
145	7.98E-05	-0.000106	-0.003741
-5.22E-05	8.04E-06	-3.41E-06	
146	8.02E-05	-0.000121	-0.003286
-6.08E-05	-0.000183	-2.31E-06	
147	8.08E-05	-0.000108	-0.002011
-6.25E-05	-0.000312	-5.01E-07	
148	8.18E-05	-0.000124	-0.000401
-5.37E-05	-0.000312	2.13E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
6

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	8.35E-05	-0.000106	0.000854
-3.47E-05	-0.000166	5.24E-06	
150	8.62E-05	-7.33E-05	0.000989
-6.35E-06	0.000140	7.98E-06	
151	8.87E-05	-4.36E-05	-7.43E-07
1.59E-05	0.000448	9.20E-06	
152	9.30E-05	4.88E-06	-0.003285
3.78E-05	0.000855	1.07E-05	
153	9.84E-05	6.07E-05	-0.008107
3.80E-05	0.001065	1.21E-05	
154	0.000105	0.000122	-0.013402
1.82E-05	0.001048	1.26E-05	
155	0.000112	0.000181	-0.018052
-1.84E-05	0.000814	1.14E-05	
156	0.000118	0.000230	-0.021107
-6.60E-05	0.000419	8.58E-06	
157	0.000124	0.000263	-0.021954
-0.000118	-6.43E-05	4.71E-06	
158	0.000127	0.000275	-0.020320
-0.000168	-0.000570	2.54E-07	
159	0.000127	0.000265	-0.016261
-0.000207	-0.001032	-4.59E-06	
160	0.000123	0.000230	-0.010118
-0.000230	-0.001409	-9.79E-06	
161	0.000118	0.000171	-0.002452
-0.000228	-0.001633	-1.43E-05	
162	0.000116	0.000149	-1.81E-07
-0.000224	-0.001648	-1.49E-05	
163	6.94E-05	8.47E-05	-2.77E-05
-0.000133	0.000384	5.00E-06	
164	6.76E-05	0.000101	-0.004286
-0.000111	0.000880	8.44E-05	
165	6.63E-05	0.000114	-0.008104
-7.92E-05	0.000627	6.14E-05	
166	6.59E-05	0.000119	-0.010437
-4.32E-05	0.000294	2.75E-05	
167	6.66E-05	0.000113	-0.011014
-4.56E-06	-6.48E-05	-8.95E-06	
168	6.83E-05	9.55E-05	-0.009868
3.07E-05	-0.000383	-4.13E-06	
169	7.06E-05	7.01E-05	-0.007380
5.39E-05	-0.000589	-6.23E-05	
170	7.32E-05	4.10E-05	-0.004276
5.63E-05	-0.000622	-6.55E-05	
171	7.55E-05	1.36E-05	-0.001499
3.38E-05	-0.000457	-4.85E-05	
172	7.72E-05	-7.26E-06	-1.26E-05
-2.06E-06	-0.000114	-1.10E-05	
173	7.79E-05	-1.62E-05	-0.000118
-1.71E-05	0.000158	1.52E-05	
174	7.81E-05	-2.17E-05	-0.001522
-2.30E-05	0.000380	3.96E-05	
175	7.78E-05	-2.13E-05	-0.003634
-2.31E-05	0.000441	4.53E-05	
176	7.73E-05	-1.80E-05	-0.005656
-1.74E-05	0.000346	3.52E-05	
177	7.67E-05	-1.46E-05	-0.006892
-6.27E-06	0.000138	1.30E-05	
178	7.63E-05	-1.30E-05	-0.006960
7.28E-06	-0.000111	-1.30E-05	
179	7.59E-05	-1.36E-05	-0.005843
1.92E-05	-0.000326	-3.59E-05	
180	7.57E-05	-1.51E-05	-0.003886
2.43E-05	-0.000435	-4.56E-05	
181	7.54E-05	-1.54E-05	-0.001762
1.81E-05	-0.000391	-4.31E-05	
182	7.50E-05	-1.16E-05	-0.000252
6.73E-07	-0.000189	-2.01E-05	
183	7.48E-05	-5.39E-06	-1.16E-05
-1.24E-05	6.18E-05	4.37E-06	
184	7.47E-05	4.66E-06	-0.000684
-1.46E-05	0.000312	2.92E-05	
185	7.37E-05	2.35E-05	-0.002806
-9.60E-06	0.000513	5.25E-05	
186	7.30E-05	4.44E-05	-0.005527
-6.52E-06	0.000554	5.66E-05	
187	7.24E-05	6.31E-05	-0.008044
-5.65E-06	0.000435	4.44E-05	
188	7.19E-05	7.57E-05	-0.009586
-5.19E-06	0.000176	1.85E-05	
189	7.14E-05	7.93E-05	-0.009720
-4.37E-06	-0.000124	-1.18E-05	
190	7.10E-05	7.31E-05	-0.008406
-3.49E-06	-0.000393	-3.92E-05	
191	7.05E-05	5.81E-05	-0.006008
-3.84E-06	-0.000544	-5.37E-05	
192	6.99E-05	3.72E-05	-0.003261
-7.50E-06	-0.000535	-5.23E-05	
193	6.93E-05	1.37E-05	-0.000939
-1.41E-05	-0.000372	-3.21E-05	
194	6.88E-05	-2.73E-06	-1.13E-05
-1.40E-05	-0.000149	-9.35E-06	
195	6.84E-05	-1.80E-05	9.87E-05
-2.58E-06	7.57E-05	1.28E-05	
196	6.76E-05	-3.82E-05	-0.000779
1.37E-05	0.000253	3.33E-05	
197	6.66E-05	-5.71E-05	-0.002188
2.05E-05	0.000290	3.71E-05	
198	6.56E-05	-7.52E-05	-0.003448
1.79E-05	0.000193	2.69E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
7

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	6.44E-05	-9.24E-05	-0.003969
9.73E-06	6.74E-06	6.64E-06	
200	6.33E-05	-0.000107	-0.003501
1.05E-06	-0.000191	-1.49E-05	
201	6.24E-05	-0.000117	-0.002183
-4.43E-06	-0.000322	-3.01E-05	
202	6.19E-05	-0.000118	-0.000507
-4.97E-06	-0.000328	-3.19E-05	
203	6.22E-05	-0.000107	0.000815
-9.95E-07	-0.000177	-1.80E-05	
204	6.37E-05	-8.10E-05	0.000996
7.78E-06	0.000129	1.21E-05	
205	6.58E-05	-5.21E-05	-1.92E-06
2.39E-05	0.000458	4.30E-05	
206	7.03E-05	5.55E-06	-0.003398
5.92E-05	0.000875	8.39E-05	
207	7.57E-05	7.62E-05	-0.008386
8.04E-05	0.001087	0.000111	
208	8.17E-05	0.000151	-0.013855
7.52E-05	0.001067	0.000110	
209	8.74E-05	0.000220	-0.018653
4.62E-05	0.000826	8.55E-05	
210	9.29E-05	0.000275	-0.021805
1.23E-06	0.000422	4.60E-05	
211	9.53E-05	0.000309	-0.022684
-5.15E-05	-7.14E-05	-2.41E-06	
212	9.59E-05	0.000319	-0.021007
-0.000105	-0.000588	-5.28E-05	
213	9.39E-05	0.000301	-0.016831
-0.000151	-0.001061	-9.83E-05	
214	8.94E-05	0.000260	-0.010497
-0.000189	-0.001448	-0.000139	
215	8.26E-05	0.000200	-0.002566
-0.000217	-0.001679	-0.000113	
216	7.95E-05	0.000175	-2.90E-05
-0.000220	-0.001690	-0.000135	
217	6.42E-05	6.52E-05	-1.03E-05
-0.000105	0.000976	0.000115	
218	6.13E-05	8.92E-05	-0.004195
-0.000128	0.000867	8.49E-05	
219	5.96E-05	0.000104	-0.007944
-0.000119	0.000614	6.33E-05	
220	5.94E-05	0.000107	-0.010236
-8.91E-05	0.000286	2.98E-05	
221	6.04E-05	0.000100	-0.010805
-5.15E-05	-6.83E-05	-6.44E-06	
222	6.23E-05	8.38E-05	-0.009684
-1.50E-05	-0.000382	-3.88E-05	
223	6.48E-05	6.13E-05	-0.007244
1.35E-05	-0.000585	-5.99E-05	
224	6.73E-05	3.66E-05	-0.004200
3.06E-05	-0.000616	-6.34E-05	
225	6.96E-05	1.44E-05	-0.001478
3.54E-05	-0.000450	-4.70E-05	
226	7.12E-05	-3.05E-06	-2.17E-05
1.94E-05	-0.000111	-9.61E-06	
227	7.22E-05	-1.32E-05	-0.000122
-8.58E-06	0.000155	1.65E-05	
228	7.31E-05	-2.25E-05	-0.001497
-4.19E-05	0.000373	4.06E-05	
229	7.36E-05	-2.54E-05	-0.003569
-5.97E-05	0.000433	4.59E-05	
230	7.38E-05	-2.46E-05	-0.005551
-6.17E-05	0.000338	3.97E-05	
231	7.39E-05	-2.25E-05	-0.006763
-5.31E-05	0.000133	1.36E-05	
232	7.41E-05	-2.09E-05	-0.006830
-3.96E-05	-0.000112	-1.23E-05	
233	7.43E-05	-2.02E-05	-0.005734
-2.53E-05	-0.000324	-3.51E-05	
234	7.45E-05	-1.45E-05	-0.003813
-1.23E-05	-0.000431	-4.66E-05	
235	7.47E-05	-1.63E-05	-0.001730
-5.44E-07	-0.000387	-4.28E-05	
236	7.47E-05	-8.79E-06	-0.000252
8.99E-06	-0.000185	-2.01E-05	
237	7.47E-05	-1.11E-06	-1.98E-05
7.62E-06	6.21E-05	4.35E-06	
238	7.46E-05	7.25E-06	-0.000680
-5.76E-06	0.000308	2.92E-05	
239	7.46E-05	2.19E-05	-0.002763
-2.77E-05	0.000507	5.23E-05	
240	7.47E-05	3.90E-05	-0.005436
-4.28E-05	0.000547	5.00E-05	
241	7.49E-05	5.50E-05	-0.007908
-5.00E-05	0.000424	4.40E-05	
242	7.52E-05	6.60E-05	-0.009424
-5.20E-05	0.000174	1.83E-05	
243	7.56E-05	6.95E-05	-0.009555
-5.12E-05	-0.000122	-1.17E-05	
244	7.60E-05	6.46E-05	-0.008264
-4.79E-05	-0.000388	-3.88E-05	
245	7.63E-05	5.22E-05	-0.005909
-4.01E-05	-0.000537	-5.32E-05	
246	7.66E-05	3.51E-05	-0.003211
-2.57E-05	-0

-4.94E-05	0.000421	4.28E-05	
265	0.000115	0.000283	-0.022273
-0.000102	-6.64E-05	-5.75E-06	
266	0.000117	0.000294	-0.020621
-0.000154	-0.000576	-5.62E-05	
267	0.000116	0.000281	-0.016514
-0.000196	-0.001043	-0.000102	
268	0.000112	0.000243	-0.010291
-0.000221	-0.001426	-0.000141	
269	0.000104	0.000179	-0.002502
-0.000211	-0.001661	-0.000114	
270	0.000056	0.000136	-7.87E-06
-0.000192	-0.001676	0.000136	
271	-0.000996	5.56E-22	.000000
-9.15E-05	0.000979	7.07E-07	
272	0.000212	-7.69E-23	.000000
1.44E-05	-0.000109	-3.25E-06	
273	.000000	.000000	.000000
1.08E-05	6.23E-05	2.37E-06	
274	0.000245	2.12E-23	.000000
6.75E-06	-0.000150	-4.61E-06	
275	-0.000489	-8.27E-23	.000000
5.59E-05	0.000453	9.74E-06	
276	0.001921	-1.21E-21	.000000
-0.000182	-0.001698	-9.99E-06	
277	-0.001013	-2.65E-23	.000000
-5.49E-05	0.000985	7.19E-06	
278	0.000202	-2.62E-22	.000000
5.35E-06	-0.000107	-3.31E-06	
279	.000000	.000000	.000000
2.33E-06	6.20E-05	2.34E-06	
280	0.000251	-2.90E-24	.000000
-1.36E-06	-0.000149	-4.43E-06	
281	-0.000465	6.10E-22	.000000
3.06E-05	0.000451	9.84E-06	
282	0.001954	7.84E-21	.000000
-0.000142	-0.001699	-2.04E-05	
283	-0.000985	5.27E-05	.000000
-2.15E-06	-0.000957	4.15E-06	
284	0.000194	-4.67E-05	.000000
-2.46E-05	-0.000105	-3.13E-06	
285	-2.75E-23	-2.20E-05	.000000
-1.38E-05	6.18E-05	2.31E-06	
286	0.000258	6.63E-06	.000000
-7.65E-07	-0.000148	-4.43E-06	
287	-0.000445	-6.04E-05	.000000
-2.00E-05	0.000447	9.20E-06	
288	0.001930	7.09E-05	.000000
-8.00E-05	-0.001661	-1.49E-05	

LOAD CONC ----------

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000283	0.000279	-4.26E-07
-0.000288	0.002421	9.26E-07	
2	0.000280	0.000285	-0.010555
-0.000277	0.002173	3.32E-06	
3	0.000274	0.000308	-0.019994
-0.000218	0.001539	5.09E-06	
4	0.000270	0.000324	-0.025750
-0.000134	0.000719	8.06E-07	
5	0.000268	0.000311	-0.027166
-4.03E-05	-0.000164	-5.78E-06	
6	0.000269	0.000267	-0.024338
4.74E-05	-0.000944	-1.14E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 9
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	0.000273	0.000200	-0.018216
0.000109	-0.001445	-1.52E-05	
8	0.000278	0.000122	-0.010603
0.000128	-0.001520	-1.56E-05	
9	0.000283	5.04E-05	-0.003785
0.000100	-0.001128	-1.31E-05	
10	0.000286	-4.33E-06	-1.51E-06
3.47E-05	-0.000320	-8.79E-06	
11	0.000287	-2.92E-05	1.27E-05
-1.20E-05	0.000285	-5.50E-06	
12	0.000287	-4.61E-05	-0.002945
-5.22E-05	0.000837	-1.33E-06	
13	0.000286	-4.56E-05	-0.007708
-6.82E-05	0.001005	1.37E-06	
14	0.000283	-3.63E-05	-0.012385
-6.26E-05	0.000805	2.23E-06	
15	0.000280	-2.69E-05	-0.015274
-3.90E-05	0.000318	1.47E-06	
16	0.000277	-2.33E-05	-0.015421
-7.18E-06	0.000264	1.33E-09	
17	0.000274	-2.63E-05	-0.012784
2.33E-05	-0.000766	-1.11E-06	
18	0.000273	-3.18E-05	-0.008244
4.06E-05	-0.000994	-9.04E-07	
19	0.000271	-3.22E-05	-0.003457
3.93E-05	-0.000861	9.34E-07	
20	0.000269	-2.00E-05	-0.000276
2.04E-05	-0.000351	4.04E-06	
21	0.000268	-1.61E-06	-1.45E-06
1.34E-06	0.000223	6.49E-06	
22	0.000266	2.50E-05	-0.001831
-1.50E-05	0.000795	8.78E-06	
23	0.000263	7.49E-05	-0.007191
-2.86E-05	0.001289	1.13E-05	
24	0.000260	0.000131	-0.014033
-3.72E-05	0.001388	1.13E-05	
25	0.000257	0.000183	-0.020379
-4.29E-05	0.001083	9.03E-06	
26	0.000253	0.000217	-0.024237
-4.46E-05	0.000429	4.39E-06	
27	0.000245	0.000125	-0.024477
-4.24E-05	-0.000336	-1.30E-06	
28	0.000245	0.000204	-0.021026
-3.68E-05	-0.001018	-6.73E-06	
29	0.000242	0.000161	-0.014893
-2.97E-05	-0.001369	-1.04E-05	
30	0.000249	0.000104	-0.008005
-2.24E-05	-0.001328	-1.20E-05	
31	0.000237	4.43E-05	-0.002287
-1.29E-05	-0.000901	-1.20E-05	
32	0.000235	3.43E-06	-1.39E-06
-7.99E-07	-0.000379	-1.14E-05	
33	0.000233	-3.49E-05	0.000351
1.40E-05	0.000149	-1.05E-05	
34	0.000230	-8.41E-05	-0.001695
2.97E-05	0.000613	-9.14E-06	
35	0.000226	-0.000127	-0.005183
3.16E-05	0.000728	-8.13E-06	
36	0.000222	-0.000167	-0.008423
1.84E-05	0.000513	-7.71E-06	
37	0.000205	-0.000205	-0.009855
-5.41E-06	4.01E-05	-7.46E-06	
38	0.000212	-0.000239	-0.008766
-2.81E-05	-0.000465	-6.38E-06	
39	0.000207	-0.000265	-0.005475
-4.05E-05	-0.000810	-3.50E-06	
40	0.000204	-0.000270	-0.001269
-3.54E-05	-0.000812	1.25E-06	
41	0.000203	-0.000250	0.002013
-1.23E-05	-0.000437	7.18E-06	
42	0.000205	-0.000195	0.002428
3.08E-05	0.000331	1.49E-05	
43	0.000209	-0.000129	-1.66E-06
7.60E-05	0.001086	2.38E-05	
44	0.000218	2.12E-05	-0.008111
0.000146	0.002089	3.51E-05	
45	0.000229	0.000206	-0.020098
0.000174	0.002619	3.86E-05	
46	0.000241	0.000397	-0.033360
0.000149	0.002595	3.77E-05	
47	0.000251	0.000573	-0.045098
7.20E-05	0.002028	3.25E-05	
48	0.000258	0.000713	-0.052892
-4.04E-05	0.001057	2.32E-05	
49	0.000260	0.000798	-0.055167
-0.000169	-0.000143	1.06E-05	
50	0.000256	0.000817	-0.051199
-0.000295	-0.001405	-3.60E-06	
51	0.000243	0.000767	-0.041086
-0.000404	-0.002566	-1.68E-05	
52	0.000225	0.000662	-0.025645
-0.000484	-0.003525	-2.46E-05	
53	0.000204	0.000542	-0.006225
-0.000514	-0.004104	-2.31E-05	
54	0.000199	0.000509	-5.16E-07
-0.000505	-0.004144	-2.23E-05	
55	0.000244	0.000166	-4.79E-07
-0.000320	0.002389	1.91E-05	
56	0.000235	0.000240	-0.010364
-0.000319	0.002038	1.36E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 10
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	0.000231	0.000283	-0.019604
-0.000278	0.001506	5.06E-06	
58	0.000230	0.000293	-0.025228
-0.000207	0.000698	-7.82E-07	
59	0.000232	0.000276	-0.026613
-0.000116	-0.000168	-5.96E-06	
60	0.000237	0.000235	-0.023862
-2.39E-05	-0.000932	-1.04E-05	
61	0.000244	0.000177	-0.017891
5.14E-05	-0.001425	-1.33E-05	
62	0.000250	0.000110	-0.010445
9.17E-05	-0.001502	-1.38E-05	
63	0.000256	4.59E-05	-0.003742
8.68E-05	-0.001122	-1.19E-05	
64	0.000261	-4.33E-06	-1.67E-06
3.33E-05	-0.000316	-8.48E-06	
65	0.000263	-2.91E-05	-5.62E-06
-1.83E-05	0.000287	-5.83E-06	
66	0.000265	-4.92E-05	-0.002930
-7.84E-05	0.000825	-2.30E-06	
67	0.000266	-5.47E-05	-0.007588
-0.000116	0.000983	5.05E-08	
68	0.000266	-5.20E-05	-0.012144
-0.000126	0.000784	1.08E-06	
69	0.000266	-4.68E-05	-0.014953
-0.000111	0.000307	1.00E-06	
70	0.000265	-4.32E-05	-0.015095
-8.02E-05	-0.000262	4.17E-07	
71	0.000267	-4.20E-05	-0.012532
-4.22E-05	-0.000753	7.17E-09	
72	0.000267	-4.07E-05	-0.008108
-8.91E-06	-0.000978	3.99E-07	
73	0.000267	-3.50E-05	-0.003425
1.18E-05	-0.000852	-1.88E-06	
74	0.000267	-1.93E-05	-0.000283
1.40E-05	-0.000352	4.40E-06	
75	0.000266	-5.76E-07	-1.61E-06
4.80E-07	0.000222	6.37E-06	
76	0.000266	2.46E-05	-0.001820
-2.15E-05	0.000793	8.13E-06	
77	0.000265	6.94E-05	-0.007112
-5.53E-05	0.001275	9.85E-06	
78	0.000265	0.000118	-0.013822
-8.53E-05	0.001365	9.77E-06	
79	0.000264	0.000162	-0.020023
-0.000107	0.001063	7.69E-06	
80	0.000265	0.000196	-0.023788
-0.000118	0.000421	3.84E-06	
81	0.000265	0.000198	-0.024023
-0.000115	-0.000329	-8.44E-07	
82	0.000266	0.000182	-0.020659
-0.000101	-0.000999	-5.46E-06	
83	0.000266	0.000147	-0.014667
-7.80E-05	-0.001347	-8.93E-06	
84	0.000266	9.77E-05	-0.007912
-4.90E-05	-0.001314	-1.08E-05	
85	0.000265	4.27E-05	-0.002268
-1.88E-05	-0.000898	-1.13E-05	
86	0.000265	3.67E-06	-1.55E-06
-9.25E-07	-0.000376	-1.12E-05	
87	0.000264	-3.46E-05	0.000333
8.32E-06	0.000153	-1.08E-05	
88	0.000263	-8.62E-05	-0.001691
3.18E-06	0.000606	-9.92E-06	
89	0.000262	-0.000134	-0.005096
-1.67E-05	0.000714	-9.26E-06	
90	0.000260	-0.000179	-0.008238
-4.59E-05	0.000501	-1.03E-06	
91	0.000259	-0.000221	-0.009616
-7.71E-05	3.99E-05	-7.77E-06	
92	0.000258	-0.000255	-0.008547
-9.81E-05	-0.000452	-5.94E-06	
93	0.000258	-0.000277	-0.005346
-0.000100	-0.000788	-4.53E-06	
94	0.000258	-0.000276	-0.001256
-7.49E-05	-0.000792	2.77E-06	
95	0.000261	-0.000245	0.001945
-2.66E-05	-0.000430	1.03E-05	
96	0.000267	-0.000171	0.002368
4.20E-05	0.000320	1.96E-05	
97	0.000376	-9.47E-05	-1.81E-06
9.78E-05	0.001071	2.34E-05	
98	0.000283	2.91E-05	-0.007984
0.000147	0.002067	2.80E-05	
99	0.000296	0.000182	-0.019751
0.000144	0.002584	3.37E-05	
100	0.000312	0.000351	-0.032731
9.18E-05	0.002556	3.44E-05	
101	0.000328	0.000510	-0.044193
-3.52E-06	0.001998	3.00E-05	
102	0.000342	0.000638	-0.051796
-0.000125	0.001045	2.18E-05	
103	0.000352	0.000720	-0.054008
-0.000256	-0.000133	1.10E-05	
104	0.000356	0.000745	-0.050122
-0.000379	-0.001372	-1.05E-06	
105	0.000353	0.000711	-0.040236
-0.000475	-0.002514	-1.31E-05	
106	0.000344	0.000615	-0.025134
-0.000537	-0.003463	-2.71E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 11
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	0.000323	0.000437	-0.006113
-0.000546	-0.004045	-4.74E-05	
108	0.000315	0.000364	-5.72E-07
-0.000542	-0.004088	-5.14E-05	
109	0.000230	0.000161	-3.63E-07
-0.000341	0.002288	1.07E-05	
110	0.000225	0.000204	-0.009894
-0.000367	0.002051	8.12E-06	
111	0.000223	0.000230	-0.018767
-0.000347	0.001450	2.89E-06	
112	0.000224	0.000232	-0.024194
-0.000288	0.000669	-1.98E-06	
113	0.000228	0.000212	-0.025536
-0.000205	-0.000173	-5.84E-06	
114	0.000233	0.000177	-0.022878
-0.000114	-0.000915	-8.64E-06	
115	0.000240	0.000131	-0.017120
-3.67E-05	-0.001389	-1.02E-05	
116	0.000245	8.02E-05	-0.009966
1.16E-05	-0.001454	-1.03E-05	
117	0.000250	3.19E-05	-0.003570
1.78E-05	-0.001078	-9.41E-06	
118	0.000254	-1.10E-05	-1.40E-06
-2.65E-05	-0.000318	-8.14E-06	
119	0.000256	-3.73E-05	5.70E-05
-7.75E-05	0.000249	-7.07E-06	
120	0.000259	-6.73E-05	-0.002640
-0.000148	0.000773	-5.01E-06	
121	0.000261	-8.66E-05	-0.007049
-0.000196	0.000936	-2.77E-06	
122	0.000263	-9.57E-05	-0.011404
-0.000215	0.000751	-9.35E-07	
123	0.000264	-9.72E-05	-0.014104
-0.000204	0.000292	2.81E-07	
124	0.000265	-9.36E-05	-0.014244
-0.000173	-0.000257	1.10E-06	
125	0.000266	-8.59E-05	-0.011785
-0.000132	-0.000730	1.99E-06	
126	0.000266	-7.29E-05	-0.007560
-9.20E-05	-0.000940	1.56E-06	
127	0.000266	-5.33E-05	-0.003127
-6.01E-05	-0.000808	4.62E-06	
128	0.000266	-2.73E-05	-0.000216
-4.50E-05	-0.000321	5.77E-06	
129	0.000265	-6.46E-06	-1.34E-06
-5.38E-05	0.000219	6.24E-06	
130	0.000265	1.56E-05	-0.001736
-7.82E-05	0.000755	6.55E-06	
131	0.000266	4.84E-05	-0.006771
-0.000124	0.001223	6.84E-06	
132	0.000267	8.16E-05	-0.013201
-0.000166	0.001319	6.65E-06	
133	0.000268	0.000112	-0.019175
-0.000195	0.001031	5.41E-06	
134	0.000271	0.000132	-0.022814
-0.000210	0.000409	2.99E-06	
135	0.000274	0.000140	-0.023044
-0.000207	-0.000319	-1.01E-07	
136	0.000277	0.000132	-0.019799
-0.000190	-0.000969	-3.26E-06	
137	0.000279	0.000109	-0.014029
-0.000159	-0.001302	-5.86E-06	
138	0.000280	7.54E-05	-0.007555
-0.000118	-0.001262	-7.89E-06	
139	0.000281	3.21E-05	-0.002175
-7.65E-05	-0.000859	-9.76E-06	
140	0.000280	-3.63E-06	-1.28E-06
-5.60E-05	-0.000372	-1.09E-05	
141	0.000280	-4.31E-05	0.000389
-5.11E-05	0.000123	-1.19E-05	
142	0.000279	-0.000104	-0.001423
-6.89E-05	0.000563	-1.24E-05	
143	0.000279	-0.000164	-0.004597
-0.000100	0.000678	-1.19E-05	
144	0.000279	-0.000220	-0.007559
-0.000137	0.000480	-1.05E-05	
145	0.000279	-0.000267	-0.008850
-0.000171	3.75E-05	-8.34E-06	
146	0.000280	-0.000301	-0.007801
-0.000193	-0.000436	-5.14E-06	
147	0.000280	-0.000315	-0.004720
-0.000192	-0.000754	-3.82E-07	
148	0.000284	-0.000302	-0.000830
-0.000162	-0.000747	5.87E-06	
149	0.000289	-0.000256	0.002143
-0.000106	-0.000382	1.28E-05	
150	0.000295	-0.000177	0.002385
-3.18E-05	0.000351	1.69E-05	
151	0.000301	-0.000106	-1.55E-06
2.01E-05	0.001063	2.19E-05	
152	0.000311	9.45E-06	-0.007726
6.39E-05	0.002011	2.53E-05	
153	0.000324	0.000141	-0.019078
5.33E-05	0.002158	2.84E-05	
154	0.000339	0.000283	-0.031635
-5.95E-06	0.002500	2.93E-05	
155	0.000356	0.000421	-0.042750
-0.000104	0.001961	2.64E-05	
156	0.000371	0.000535	-0.050131
-0.000224	0.001030	2.01E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 12
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	0.000383	0.000613	-0.052272
-0.000350	-0.000121	1.15E-05	
158	0.000391	0.000645	-0.048485
-0.000464	-0.001334	1.38E-06	
159	0.000393	0.000625	-0.038875
-0.000549	-0.002447	-9.88E-06	
160	0.000387	0.000546	-0.024233
-0.000589	-0.003363	-2.22E-05	
161	0.000373	0.000409	-0.005879
-0.000564	-0.003912	-3.35E-05	
162	0.000367	0.000358	-4.29E-07
-0.000547	-0.003951	-3.49E-05	
163	0.000253	0.000223	-4.31E-05
-0.000315	-0.002459	-1.91E-05	
164	0.000248	0.000264	-0.010515
-0.000292	0.002153	0.000204	
165	0.000245	0.000299	-0.019873
-0.000239	0.001530	0.000147	
166	0.000244	0.000312	-0.025575
-0.000163	0.000710	6.43E-05	
167	0.000244	0.000298	-0.026977
-7.14E-05	-0.000165	-2.42E-05	
168	0.000250	0.000255	-0.024180
2.05E-05	-0.000940	-0.000103	
169	0.000256	0.000191	-0.018120
9.07E-05	-0.001436	-0.000153	
170	0.000263	0.000117	-0.010567
0.000117	-0.001517	-0.000161	
171	0.000269	4.82E-05	-0.003783
8.54E-05	-0.001122	-0.000121	
172	0.000273	-4.93E-06	-9.66E-06
1.53E-05	-0.000346	-3.41E-05	
173	0.000275	-2.94E-05	-8.26E-06
-2.82E-05	0.000313	2.80E-05	
174	0.000256	-4.60E-05	-0.002973
-6.00E-05	0.000829	8.53E-05	
175	0.000275	-4.75E-05	-0.007706
-8.19E-05	0.001002	0.000102	
176	0.000274	-4.04E-05	-0.012340
-8.51E-05	0.000795	7.98E-05	
177	0.000270	-3.26E-05	-0.015198
-6.76E-05	0.000315	2.88E-05	
178	0.000271	-2.89E-05	-0.015342
-3.59E-05	-0.000264	-3.17E-05	
179	0.000270	-3.04E-05	-0.012733
-3.94E-07	-0.000759	-8.41E-05	
180	0.000270	-3.36E-05	-0.008235
2.60E-05	0.000292	-1.49E-05	
181	0.000269	-3.24E-05	-0.003477
2.99E-05	-0.000856	-9.55E-05	
182	0.000268	-1.97E-05	-0.000293
6.42E-06	-0.000373	-4.04E-05	
183	0.000267	1.61E-06	-7.73E-06
-1.89E-05	0.000222	1.66E-05	
184	0.000269	2.48E-05	-0.001838
-3.03E-05	0.000814	7.52E-05	
185	0.000264	7.34E-05	-0.007188
-3.75E-05	0.001281	0.000131	
186	0.000262	0.000127	-0.013986
-5.17E-05	0.001385	0.000142	
187	0.000260	0.000176	-0.020276
-6.62E-05	0.001371	0.000111	
188	0.000258	0.000208	-0.024097
-7.34E-05	0.000427	4.61E-05	
189	0.000257	0.000215	-0.024334
-7.12E-05	-0.000335	-3.02E-05	
190	0.000256	0.000197	-0.020918
-6.03E-05	-0.001006	-9.81E-05	
191	0.000255	0.000156	-0.014838
-4.42E-05	-0.001367	-0.000132	
192	0.000253	0.000102	-0.007994
-3.13E-05	-0.001320	-0.000126	
193	0.000251	4.34E-05	-0.002290
-2.78E-05	-0.000920	-7.58E-05	
194	0.000250	3.01E-06	-7.08E-06
-2.09E-05	0.000377	-2.10E-05	
195	0.000248	-3.49E-05	0.000330
5.21E-07	0.000172	3.26E-05	
196	0.000246	-8.40E-05	-0.001728
2.10E-05	0.000608	8.39E-05	
197	0.000243	-0.000128	-0.005197
1.77E-05	0.000728	9.60E-05	
198	0.000241	-0.000169	-0.008404
-4.86E-06	0.000505	7.30E-05	
199	0.000238	-0.000208	-0.009818
-3.35E-05	4.17E-05	2.30E-05	
200	0.000235	-0.000243	-0.008738
-5.54E-05	-0.000462	-3.12E-05	
201	0.000233	-0.000267	-0.005481
-6.08E-05	-0.000798	-6.94E-05	
202	0.000231	-0.000271	-0.001312
-4.51E-05	-0.000812	-7.32E-05	
203	0.000232	-0.000247	0.001956
-1.29E-05	-0.000432	-3.77E-05	
204	0.000235	-0.000184	0.002406
2.67E-05	0.000296	3.47E-05	
205	0.000240	-0.000114	1.58E-05
7.28E-05	0.001105	0.000109	
206	0.000250	2.43E-05	-0.008053
0.000141	0.002077	0.000219	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 13
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	0.000263	0.000195	-0.019960
0.000167	0.002608	0.000273	
208	0.000278	0.000377	-0.033109
0.000131	0.002578	0.000271	
209	0.000292	0.000546	-0.044729
4.33E-05	0.002015	0.000216	
210	0.000304	0.000681	-0.052439
-7.65E-05	0.001052	0.000121	
211	0.000312	0.000764	-0.054687
-0.000207	-0.000138	4.47E-06	
212	0.000313	0.000785	-0.050758
-0.000331	-0.001390	-0.000117	
213	0.000309	0.000742	-0.040751
-0.000431	-0.002545	-0.000228	
214	0.000298	0.000640	-0.025460
-0.000499	-0.003497	-0.000327	
215	0.000282	0.000493	-0.006216
-0.000531	-0.004091	-0.000268	
216	0.000275	0.000432	-4.83E-05
-0.000519	-0.004108	-0.000321	
217	0.000240	0.000166	-4.03E-05
-0.000249	0.002405	0.000280	
218	0.000232	0.000226	-0.010197
-0.000324	0.002095	0.000206	
219	0.000228	0.000261	-0.019272
-0.000319	0.001482	0.000154	
220	0.000228	0.000268	-0.024806
-0.000258	0.001063	7.24E-05	
221	0.000230	0.000250	-0.026175
-0.000170	-0.000171	-1.53E-05	
222	0.000235	0.000211	-0.023470
-7.69E-05	-0.000925	-9.34E-05	
223	0.000241	0.000159	-0.017601
3.40E-06	-0.001407	-0.000144	
224	0.000247	9.91E-05	-0.010293
6.08E-05	-0.001481	-0.000152	
225	0.000253	4.24E-05	-0.003732
8.93E-05	-0.001092	-0.000113	
226	0.000257	-4.48E-06	-7.19E-05
6.48E-05	-0.000337	-2.88E-05	
227	0.000260	-2.97E-05	-4.57E-05
-6.85E-06	0.000297	3.14E-05	
228	0.000262	-5.41E-05	-0.002870
-9.74E-05	0.000795	8.77E-05	
229	0.000264	-6.57E-05	-0.007414
-0.000158	0.000964	0.000103	
230	0.000264	-6.84E-05	-0.011877
-0.000177	0.000765	8.16E-05	
231	0.000265	-6.64E-05	-0.014634
-0.000165	0.000300	3.11E-05	
232	0.000265	-6.28E-05	-0.014775
-0.000135	-0.000261	-2.89E-05	
233	0.000266	-5.86E-05	-0.012259
-9.46E-05	-0.000741	-8.08E-05	
234	0.000266	-5.21E-05	-0.007927
-5.18E-05	-0.000963	-0.000105	
235	0.000267	-4.02E-05	-0.003357
-9.34E-06	-0.000827	-9.27E-05	
236	0.000267	-2.01E-05	-0.000317
2.58E-05	-0.000354	-3.88E-05	
237	0.000267	-5.77E-06	-6.45E-05
2.67E-05	0.000222	1.65E-05	
238	0.000267	2.34E-05	-0.001845
-9.39E-06	0.000794	7.34E-05	
239	0.000267	6.29E-05	-0.007022
-7.44E-05	0.001247	0.000128	
240	0.000267	0.000105	-0.013604
-0.000127	0.001348	0.000138	
241	0.000267	0.000142	-0.019699
-0.000159	0.001043	0.000108	
242	0.000268	0.000167	-0.023405
-0.000171	0.000417	4.37E-05	
243	0.000270	0.000174	-0.023638
-0.000169	-0.000326	-3.18E-05	
244	0.000270	0.000162	-0.020329
-0.000153	-0.000980	-9.89E-05	
245	0.000272	0.000133	-0.014441
-0.000120	-0.001331	-0.000133	
246	0.000272	9.05E-05	-0.007815
-6.86E-05	-0.001285	-0.000127	
247	0.000273	4.07E-05	-0.002289
-7.38E-06	-0.000898	-7.76E-05	
248	0.000273	3.00E-06	-6.53E-05
2.46E-05	-0.000375	-2.42E-05	
249	0.000272	-3.56E-05	0.000293
2.02E-05	0.000155	2.74E-05	
250	0.000272	-9.09E-05	-0.001639
-1.76E-05	0.000581	-7.73E-05	
251

268	0.000359	0.000585	-0.024758
-0.000561	-0.003414	-0.000340	
269	0.000340	0.000430	-0.006037
-0.000512	-0.004009	-0.000275	
270	0.000332	0.000359	-2.84E-05
-0.000452	-0.004034	0.000328	
271	-0.002380	-7.58E-22	.000000
-0.000249	0.002425	9.26E-07	
272	0.000672	-1.34E-21	.000000
1.68E-05	-0.000322	-8.79E-06	
273	.000000	.000000	.000000
7.94E-06	0.000223	6.49E-06	
274	0.000690	-1.11E-22	.000000
-2.15E-06	-0.000379	-1.14E-05	
275	-0.001095	-1.42E-21	.000000
0.000114	0.001083	2.38E-05	
276	0.004758	-5.53E-22	.000000
-0.000464	-0.004149	-2.29E-05	
277	-0.002391	-2.38E-21	.000000
-0.000133	0.002407	1.91E-05	
278	0.000641	-4.04E-21	.000000
1.57E-05	-0.000317	-8.48E-06	
279	.000000	.000000	.000000
7.04E-06	0.000222	6.37E-06	
280	0.000715	-2.49E-22	.000000
-2.27E-06	-0.000376	-1.12E-05	
281	-0.001013	6.55E-22	.000000
7.38E-05	0.001072	2.34E-05	
282	0.004817	3.71E-21	.000000
-0.000344	-0.004109	-5.14E-05	
283	-0.002294	0.000107	.000000
-1.89E-05	0.002313	1.07E-05	
284	0.000638	-0.000315	.000000
-8.02E-05	-0.000309	-8.14E-06	
285	-1.92E-22	-7.11E-05	.000000
-4.73E-05	0.000221	6.24E-06	
286	0.000730	1.04E-05	.000000
-1.43E-05	-0.000375	-1.09E-05	
287	-0.000965	-0.000160	.000000
-6.51E-05	0.001062	2.19E-05	
288	0.004716	0.000165	.000000
-0.000203	-0.003983	-3.49E-05	

R E S T R A I N T F O R C E S (R E A C T I O N S)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

LOAD STEEL ----------

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	30.202230	312.656920
.000000	.000000	.000000	
272	.000000	-17.393046	1203.090
.000000	.000000	.000000	
273	-0.172370	-17.217353	1157.255
.000000	.000000	.000000	
274	.000000	-15.798673	1094.903
.000000	.000000	.000000	
275	.000000	-47.912614	1297.093
.000000	.000000	.000000	
276	.000000	49.592706	381.611506
.000000	.000000	.000000	
277	.000000	-28.965752	381.286269
.000000	.000000	.000000	
278	.000000	15.887475	1369.687
.000000	.000000	.000000	
279	0.125009	16.952703	1331.808
.000000	.000000	.000000	
280	.000000	18.316308	1268.722
.000000	.000000	.000000	
281	.000000	42.979068	1457.375
.000000	.000000	.000000	
282	.000000	-46.718919	462.610685
.000000	.000000	.000000	
283	.000000	.000000	290.482557
.000000	.000000	.000000	
284	.000000	.000000	1201.622
.000000	.000000	.000000	
285	-2.678863	.000000	1157.960
.000000	.000000	.000000	
286	.000000	.000000	1094.882
.000000	.000000	.000000	
287	.000000	.000000	1299.680
.000000	.000000	.000000	
288	.000000	.000000	345.717868
.000000	.000000	.000000	

LOAD CONC ----------

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	91.717012	813.798884
.000000	.000000	.000000	
272	.000000	-4.541393	2644.987
.000000	.000000	.000000	
273	2.960816	-1.731167	2532.230
.000000	.000000	.000000	
274	.000000	0.993113	2425.408
.000000	.000000	.000000	
275	.000000	-72.251330	2910.075
.000000	.000000	.000000	
276	.000000	148.675148	984.969906
.000000	.000000	.000000	
277	.000000	-88.767685	915.174255
.000000	.000000	.000000	
278	.000000	0.945055	2914.275
.000000	.000000	.000000	
279	-0.261524	1.120235	2811.680
.000000	.000000	.000000	
280	.000000	4.788783	2703.897
.000000	.000000	.000000	
281	.000000	60.635052	3159.600
.000000	.000000	.000000	
282	.000000	-141.875344	1092.600
.000000	.000000	.000000	
283	.000000	.000000	693.539216
.000000	.000000	.000000	
284	.000000	.000000	2458.244
.000000	.000000	.000000	
285	-6.842151	.000000	2351.176
.000000	.000000	.000000	
286	.000000	.000000	2244.070
.000000	.000000	.000000	
287	.000000	.000000	2720.252
.000000	.000000	.000000	
288	.000000	.000000	818.605960
.000000	.000000	.000000	

G L O B A L F O R C E B A L A N C E

TOTAL FORCE AND MOMENT AT THE ORIGIN, IN GLOBAL COORDINATES

LOAD STEEL ----------

	FX	FY	FZ
MX	MY	MZ	
APPLIED	-1.18E-16	6.99E-15	-17108.442
9019.981	2.1353E+06	3.14E-13	
REACTNS	-3.85E-09	-1.12E-09	
17108.442	-9019.981	-2.1353E+06	
-3.20E-07			
TOTAL	-3.85E-09	-1.12E-09	2.07E-10
-3.44E-10	-2.47E-08	-3.20E-07	

LOAD CONC ----------

	FX	FY	FZ
MX	MY	MZ	
APPLIED	-1.79E-30	5.72E-29	-37194.581
18154.028	4.6626E+06	5.51E-27	
REACTNS	-9.93E-09	-4.29E-09	
37194.581	-18154.028	-4.6626E+06	
-8.20E-07			
TOTAL	-9.93E-09	-4.29E-09	5.31E-10
-3.18E-09	-5.96E-08	-8.20E-07	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 1 ========== LENGTH = 4.489314

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.889556	-313.677242	3.772558
-2.539623	4.009094	-3.886167	
0.25000	-4.889556	-296.366026	3.772558
-2.539623	-0.224956	338.462037	
0.50000	-4.889556	-278.908066	3.772558
-2.539623	-4.459005	661.299023	
0.75000	-4.889556	-261.303361	3.772558
-2.539623	-8.693055	964.460093	
1.00000	-4.889556	-243.551911	3.772558
-2.539623	-12.927105	1247.781	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.954856	-802.084096	11.409700
-97.754498	9.886802	-11.441556	
0.25000	-13.954856	-752.728577	11.409700
-88.581707	-2.918611	861.063749	
0.50000	-13.954856	-703.373058	11.409700
-79.408916	-15.724043	1678.176	
0.75000	-13.954856	-654.017539	11.409700
-70.236125	-28.529474	2439.895	
1.00000	-13.954856	-604.662020	11.409700
-61.063334	-41.334906	3146.221	

ELEM 2 ========== LENGTH = 4.987379

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.641921	-234.018914	-2.631596
0.930164	-8.713615	1247.532	
0.25000	-6.641921	-213.931308	-2.631596
0.930164	-5.432423	1526.853	
0.50000	-6.641921	-193.273271	-2.631596
0.930164	-2.151231	1780.773	
0.75000	-6.641921	-172.044802	-2.631596
0.930164	1.129961	2008.580	
1.00000	-6.641921	-150.245902	-2.631596
0.930164	4.411153	2209.562	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.218069	-577.025012	-8.167423
-89.636044	-31.082044	3145.948	
0.25000	-18.218069	-522.193764	-8.167423
-79.445581	-20.898534	3831.226	
0.50000	-18.218069	-467.362515	-8.167423
-69.255118	-10.715025	4448.137	
0.75000	-18.218069	-412.531266	-8.167423
-59.064655	-0.531515	4996.683	
1.00000	-18.218069	-357.700017	-8.167423
-48.874192	9.651994	5476.862	

ELEM 3 ========== LENGTH = 4.987449

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.790555	-136.441152	-1.449123
-1.117833	7.176341	2209.393	
0.25000	-7.790555	-114.356727	-1.449123
-1.117833	8.983197	2365.748	
0.50000	-7.790555	-92.272303	-1.449123
-1.117833	10.790054	2494.567	
0.75000	-7.790555	-70.187878	-1.449123
-1.117833	12.596910	2595.850	
1.00000	-7.790555	-48.103453	-1.449123
-1.117833	14.403766	2669.597	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.949517	-327.755765	-4.566182
-68.095638	16.215826	5476.749	
0.25000	-20.949517	-272.923749	-4.566182
-57.905032	21.909226	5851.232	
0.50000	-20.949517	-218.091733	-4.566182
-47.714427	27.602626	6157.346	
0.75000	-20.949517	-163.259717	-4.566182
-37.523821	33.296026	6395.093	
1.00000	-20.949517	-108.427701	-4.566182
-27.333216	38.989426	6564.471	

ELEM 4 ========== LENGTH = 4.987537

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.300077	-34.294712	-0.007829
1.085191	15.638057	2669.524	
0.25000	-8.300077	-12.209897	-0.007829
1.085191	15.643218	2698.517	
0.50000	-8.300077	9.874918	-0.007829
1.085191	15.657579	2699.972	
0.75000	-8.300077	31.959733	-0.007829
1.085191	15.667341	2673.891	
1.00000	-8.300077	54.044548	-0.007829
1.085191	15.677102	2620.272	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.110928	-80.322181	-0.260201
-30.468300	41.801903	6564.457	
0.25000	-22.110928	-25.489196	-0.260201
-20.277514	42.126344	6630.424	
0.50000	-22.110928	29.343789	-0.260201
-10.086729	42.450784	6628.021	
0.75000	-22.110928	84.176773	-0.260201
0.104057	42.775225	6557.248	
1.00000	-22.110928	139.009758	-0.260201
10.294842	43.099666	6418.104	

ELEM 5 ========== LENGTH = 4.988074

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.142845	67.472106	0.627564
3.013016	15.307256	2620.285	
0.25000	-8.142845	89.559298	0.627564
3.013016	14.524671	2522.374	
0.50000	-8.142845	111.646489	0.627564
3.013016	13.742087	2396.920	
0.75000	-8.142845	133.733681	0.627564
3.013016	12.959502	2243.924	
1.00000	-8.142845	155.820873	0.627564
3.013016	12.176918	2063.384	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.663527	166.305263	1.699628
5.037958	42.044788	6418.128	
0.25000	-21.663527	221.144149	1.699628
16.129841	39.927720	6176.550	
0.50000	-21.663527	275.983034	1.699628
26.321723	37.808252	5866.586	
0.75000	-21.663527	330.821919	1.699628
36.513605	35.688785	5488.238	
1.00000	-21.663527	385.660804	1.699628
46.705487	33.569317	5041.504	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 6 ========== LENGTH = 4.987426

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.397012	169.353277	0.748366
2.396243	10.384533	2063.475	
0.25000	-7.397012	191.580208	0.748366
2.396243	9.451429	1838.488	
0.50000	-7.397012	214.092358	0.748366
2.396243	8.518324	1585.610	
0.75000	-7.397012	236.889726	0.748366
2.396243	7.585219	1304.485	
1.00000	-7.397012	259.972313	0.748366
2.396243	6.652115	994.756581	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.804223	414.455382	2.547870
31.974389	29.108477	5041.558	
0.25000	-19.804223	469.287143	2.547870
42.164947	25.931649	4490.608	
0.50000	-19.804223	524.118905	2.547870
52.355505	22.754821	3871.291	
0.75000	-19.804223	578.950666	2.547870
62.546064	19.577992	3183.606	
1.00000	-19.804223	633.782427	2.547870
72.736622	16.401164	2427.554	

ELEM 7 ========== LENGTH = 4.987008

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.275910	273.276631	0.581799
-5.184393	3.947614	994.924145	
0.25000	-6.275910	296.785075	0.581799
-5.184393	3.222256	639.620619	
0.50000	-6.275910	320.863908	0.581799
-5.184393	2.496897	254.652326	
0.75000	-6.275910	345.513130	0.581799
-5.184393	1.771538	-160.691867	
1.00000	-6.275910	370.732741	0.581799
-5.184393	1.046180	-607.123094	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.040517	664.615350	2.892422
32.774019	9.749630	2427.682	
0.25000	-17.040517	719.442516	2.892422
42.963723	6.143497	1564.893	
0.50000	-17.040517	774.269682	2.892422
53.153427	2.537364	633.748924	
0.75000	-17.040517	829.096848	2.892422
63.343132	-1.068768	-365.751295	
1.00000	-17.040517	883.924014	2.892422
73.532836	-4.674901	-1433.607	

ELEM 8 ========== LENGTH = 4.987801

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.117698	380.672029	1.046834
-13.907046	-1.750555	-606.908818	
0.25000	-5.117698	406.608751	1.046834
-13.907046	-3.050605	-1097.670	
0.50000	-5.117698	433.401192	1.046834
-13.907046	-4.361256	-1621.306	
0.75000	-5.117698	461.049353	1.046834
-13.907046	-5.666606	-2178.885	
1.00000	-5.117698	489.553234	1.046834
-13.907046	-6.971956	-2771.473	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.159999	911.899177	2.787951
14.975774	-11.613611	-1433.401	
0.25000	-14.159999	966.735062	2.787951
25.167099	-15.090048	-2604.683	
0.50000	-14.159999	1021.571	2.787951
35.358423	-18.566484	-3844.342	
0.75000	-14.159999	1076.407	2.787951
45.549748	-22.042921	-5152.379	
1.00000	-14.159999	1131.243	2.787951
55.741072	-25.519357	-6528.794	

ELEM 9 ========== LENGTH = 4.987631

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.301248	490.508196	4.713594
-10.922009	-8.925014	2771.293	
0.25000	-4.301248	520.172442	4.713594
-10.922009	-14.802430	-3401.254	
0.50000	-4.301248	551.303675	4.713594
-10.922009	-20.679847	-4069.117	
0.75000	-4.301248	583.901894	4.713594
-10.922009	-26.557263	-4776.713	
1.00000	-4.301248	617.967101	4.713594
-10.922009	-32.434680	-5525.870	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.061161	1147.250	2.578196
-0.632541	-30.578578	-6528.630	
0.25000	-12.061161	1202.084	2.578196
9.558436	-33.793350	-7993.331	
0.50000	-12.061161	1256.918	2.578196
19.749413	-37.008122	-9526.405	
0.75000	-12.061161	1311.752	2.578196
29.940389	-40.222895	-11127.852	
1.00000	-12.061161	1366.586	2.578196
40.131366	-43.437667	-12797.672	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 11 ========== LENGTH = 4.987270

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.999594	-500.133267	-1.031798
28.595193	-12.469065	-3627.034	
0.25000	-3.999594	-469.350748	-1.031798
28.595193	-11.182601	-3022.738	
0.50000	-3.999594	-439.423858	-1.031798
28.595193	-9.896137	-2456.289	
0.75000	-3.999594	-410.352595	-1.031798
28.595193	-8.609673	-1926.620	
1.00000	-3.999594	-382.136962	-1.031798
28.595193	-7.323209	-1432.664	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.023044	-1114.313	-1.785828
-11.916399	-37.126070	-8611.296	
0.25000	-12.023044	-1059.483	-1.785828
-1.726160	-34.899468	-7256.133	
0.50000	-12.023044	-1004.653	-1.785828
8.464079	-32.672867	-5969.333	
0.75000	-12.023044	-949.822466	-1.785828
18.654317	-30.446265	-4750.896	
1.00000	-12.023044	-894.992424	-1.785828
28.844556	-28.219663	-3600.823	

ELEM 12 ========== LENGTH = 4.987437

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.747600	-373.618222	-0.172920
18.752014	-5.509776	-1432.891	
0.25000	-4.747600	-346.114688	-0.172920
18.752014	-5.294170	-984.247831	
0.50000	-4.747600	-319.181593	-0.172920
18.752014	-5.078563	-569.541682	
0.75000	-4.747600	-292.818935	-0.172920
18.752014	-4.862956	-188.061684	
1.00000	-4.747600	-267.026716	-0.172920
18.752014	-4.647349	160.903417	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.679100	-867.731550	-1.941547
-40.898044	-24.213793	-3601.036	
0.25000	-13.679100	-812.899666	-1.941547
-30.707463	-21.792956	-2553.281	
0.50000	-13.679100	-758.067782	-1.941547
-20.516882	-19.372120	-1573.893	
0.75000	-13.679100	-703.235899	-1.941547
-10.326301	-16.951284	-662.872932	
1.00000	-13.679100	-648.404015	-1.941547
-0.135720	-14.530448	179.779452	

ELEM 13 ========== LENGTH = 4.987665

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.611129	-254.026293	-0.314644
7.098673	-2.555095	160.710420	
0.25000	-5.611129	-229.041583	-0.314644
7.098673	-2.162759	461.774024	
0.50000	-5.611129	-205.101661	-0.314644
7.098673	-1.770424	732.335167	
0.75000	-5.611129	-182.208121	-0.314644
7.098673	-1.378089	973.697937	
1.00000	-5.611129	-160.360433	-0.314644
7.098673	-0.985754	1187.166	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.618755	-617.184164	-1.669379
-55.001357	-9.844278	179.641879	
0.25000	-15.618755	-562.349772	-1.669379
-44.810310	-7.762702	915.031937	
0.50000	-15.618755	-507.515379	-1.669379
-34.619263	-5.681126	1582.048	
0.75000	-15.618755	-452.680987	-1.669379
-24.428216	-3.599551	2180.690	
1.00000	-15.618755	-397.846595	-1.669379
-14.237168	-1.517975	2710.959	

ELEM 14 ========== LENGTH = 4.988150

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.279219	-146.778695	-0.312440
0.716906	0.631017	1187.050	
0.25000	-6.279219	-125.451858	-0.312440
0.716906	1.020641	1356.791	
0.50000	-6.279219	-104.125021	-0.312440
0.716906	1.410265	1499.937	
0.75000	-6.279219	-82.798184	-0.312440
0.716906	1.799889	1616.487	

```
 1.00000    -6.279219   -61.471346    -0.312440
 0.716906    2.189514    1706.442

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -17.126447  -368.343953    -1.047543
-46.141908    2.126305    2710.885
0.25000   -17.126447  -313.504227    -1.047543
-35.949870    3.432631    3136.030
0.50000   -17.126447  -258.664500    -1.047543
-25.757832    4.738957    3492.788
0.75000   -17.126447  -203.824774    -1.047543
-15.565793    6.045282    3781.159
1.00000   -17.126447  -148.985048    -1.047543
-5.373755    7.351608    4001.142

ELEM        15 ================== LENGTH
=     4.986699

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -6.521804   -48.081985    -0.105184
-1.164738    2.775014    1706.406
0.25000    -6.521804   -26.761352    -0.105184
-1.164738    2.906144    1753.059
0.50000    -6.521804    -5.440719    -0.105184
-1.164738    3.037275    1773.131
0.75000    -6.521804    15.879914    -0.105184
-1.164738    3.168405    1766.624
1.00000    -6.521804    37.200547    -0.105184
-1.164738    3.299536    1733.537

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -17.657268  -121.048835    -0.251716
-22.667178    8.632274    4001.129
0.25000   -17.657268   -66.225063    -0.251716
-12.478105    8.946082    4117.864
0.50000   -17.657268   -11.401290    -0.251716
-2.289031    9.259891    4166.251
0.75000   -17.657268    43.422482    -0.251716
 7.900042    9.573700    4146.291
1.00000   -17.657268    98.246254    -0.251716
18.089115    9.887508    4057.984
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                          23

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

ELEM        16 ================== LENGTH
=     4.988369

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -6.263149    50.583577     0.110421
-2.848804    2.673671    1733.586
0.25000    -6.263149    71.911350     0.110421
-2.848804    2.535965    1657.205
0.50000    -6.263149    93.239122     0.110421
-2.848804    2.398260    1554.226
0.75000    -6.263149   114.566895     0.110421
-2.848804    2.260555    1424.649
1.00000    -6.263149   135.894668     0.110421
-2.848804    2.122850    1268.475

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -17.028612   126.167092     0.562637
 1.258963    8.368482    4058.031
0.25000   -17.028612   181.009224     0.562637
11.451448    7.666821    3866.492
0.50000   -17.028612   235.851356     0.562637
21.643934    6.965161    3606.561
0.75000   -17.028612   290.693488     0.562637
31.836419    6.263501    3278.236
1.00000   -17.028612   345.535620     0.562637
42.028905    5.561840    2881.517

ELEM        17 ================== LENGTH
=     4.987214

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -5.567055   149.372470     0.126376
-8.638208    0.437493    1268.603
0.25000    -5.567055   171.218184     0.126376
-8.638208    0.279926    1068.855
0.50000    -5.567055   194.109654     0.126376
-8.638208    0.122360    841.217974
0.75000    -5.567055   218.046881     0.126376
-8.638208   -0.035207    584.387500
1.00000    -5.567055   243.029864     0.126376
-8.638208   -0.192773    297.060079

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -15.398050   374.791792     1.202706
11.540622    1.620209    2881.625
0.25000   -15.398050   429.621228     1.202706
21.730748    0.120671    2380.153
0.50000   -15.398050   484.450664     1.202706
31.920874   -1.378867    1810.319
0.75000   -15.398050   539.280099     1.202706
42.110999   -2.878405    1172.123
1.00000   -15.398050   594.109535     1.202706
52.301125   -4.377943   465.565750

ELEM        18 ================== LENGTH
=     4.988092

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -4.657064   255.862044     0.015821
-19.165697    -2.398352    297.264062
0.25000    -4.657064   281.657650     0.015821
-19.165697    -2.418081    -37.826349
0.50000    -4.657064   308.023768     0.015821
-19.165697    -2.437810   -405.440194
0.75000    -4.657064   334.960399     0.015821
-19.165697    -2.457539   -806.288915
1.00000    -4.657064   362.467543     0.015821
-19.165697    -2.477268   -1241.084
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                          24

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -13.297682   624.950583     1.483710
 0.113133   -9.453443   465.729933
0.25000   -13.297682   679.789665     1.483710
10.305052   -11.303663   -347.790587
0.50000   -13.297682   734.628746     1.483710
20.496970   -13.153884   -1229.697
0.75000   -13.297682   789.467828     1.483710
30.688889   -15.004104   -2179.988
1.00000   -13.297682   844.306909     1.483710
40.880807   -16.854324   -3198.666

ELEM        19 ================== LENGTH
=     4.987142

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -3.838289   370.675664     0.882464
-27.260789    -4.462570    -1240.849
0.25000    -3.838289   398.890575     0.882464
-27.260789    -5.562813    -1720.502
0.50000    -3.838289   427.961093     0.882464
-27.260789    -6.663057    -2235.866
0.75000    -3.838289   457.887218     0.882464
-27.260789    -7.763301    -2788.009
1.00000    -3.838289   488.668949     0.882464
-27.260789    -8.863544    -3377.996

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -11.431914   870.611066     1.211590
-24.060912   -21.368029    -3198.436
0.25000   -11.431914   925.439705     1.211590
-13.870934   -22.878622    -4318.081
0.50000   -11.431914   980.268344     1.211590
-3.680956   -24.389214    -5506.086
0.75000   -11.431914  1035.097     1.211590
 6.509022   -25.899806    -6762.450
1.00000   -11.431914  1089.926     1.211590
16.699000   -27.410398    -8087.174

ELEM        20 ================== LENGTH
=     3.491733

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -3.393552   487.075160     5.255899
-18.141196    -9.907332    -3377.832
0.25000    -3.393552   509.240246     5.255899
-18.141196   -14.495381    -3812.644
0.50000    -3.393552   532.032970     5.255899
-18.141196   -19.083430    -4267.080
0.75000    -3.393552   555.453333     5.255899
-18.141196   -23.671479    -4741.686
1.00000    -3.393552   579.501335     5.255899
-18.141196   -28.259528    -5237.010

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -10.468172  1098.540     0.744713
-22.415655   -29.702029    -8087.029
0.25000   -10.468172  1136.929     0.744713
-15.281171   -30.352114    -9062.737
0.50000   -10.468172   1175.317     0.744713
-8.146688   -31.002199   -10071.955
0.75000   -10.468172  1213.705     0.744713
-1.012204   -31.652284   -11114.683
1.00000   -10.468172  1252.093     0.744713
 6.122280   -32.302369   -12190.921
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                          25

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

ELEM        21 ================== LENGTH
=     3.491348

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -3.272720   -582.988246    -5.539551
15.532059   -28.136823    -5236.803
0.25000    -3.272720   -558.942897    -5.539551
15.532059   -23.301698    -4738.488
0.50000    -3.272720   -535.525119    -5.539551
15.532059   -18.466573    -4260.888
0.75000    -3.272720   -512.734910    -5.539551
15.532059   -13.631448    -3803.454
1.00000    -3.272720   -490.572271    -5.539551
15.532059    -8.796323    -3365.637

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -13.690002   -1281.374    -1.530208
-18.636615   -31.690652   -12194.487
0.25000   -13.690002   -1242.990    -1.530208
-11.502919   -30.355030   -11092.807
0.50000   -13.690002   -1204.606    -1.530208
-4.369223   -29.019407   -10024.631
0.75000   -13.690002   -1166.222    -1.530208
 2.764474   -27.683785    -8989.958
1.00000   -13.690002   -1127.838    -1.530208
 9.898170   -26.348163    -7988.787

ELEM        22 ================== LENGTH
=     4.987373

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -3.819148   -492.208513    -1.163437
23.711037    -7.517725    -3365.805
0.25000    -3.819148   -461.425359    -1.163437
23.711037    -6.067102    -2771.378
0.50000    -3.819148   -431.497851    -1.163437
23.711037    -4.616479    -2214.800
0.75000    -3.819148   -402.425988    -1.163437
23.711037    -3.165856    -1695.002
1.00000    -3.819148   -374.209772    -1.163437
23.711037    -1.715233    -1210.920

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -15.145419   -1119.210    -1.950315
-31.487653   -22.890059    -7988.945
0.25000   -15.145419   -1064.379    -1.950315
-21.297204   -20.458323    -6627.649
0.50000   -15.145419   -1009.548    -1.950315
-11.106755   -18.026586    -5334.718
0.75000   -15.145419   -954.716431    -1.950315
-0.916306   -15.594849    -4110.154
1.00000   -15.145419   -899.885257    -1.950315
 9.274143   -13.163112    -2953.955

ELEM        23 ================== LENGTH
=     4.987867

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -4.736782   -366.028705    -0.305609
16.025115     0.506547    -1211.148
0.25000    -4.736782   -338.522800    -0.305609
16.025115     0.887631   -771.931238
0.50000    -4.736782   -311.587383    -0.305609
16.025115     1.268716   -366.657622
0.75000    -4.736782   -285.222453    -0.305609
16.025115     1.649800     5.384114
1.00000    -4.736782   -259.428010    -0.305609
16.025115     2.030884   344.905346
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                          26

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -17.470196   -873.500340    -2.235736
-54.195796    -7.543949    -2954.176
0.25000   -17.470196   -818.663729    -2.235736
-44.004337    -4.756061    -1899.140
0.50000   -17.470196   -763.827118    -2.235736
-33.812877    -1.968173   -912.483421
0.75000   -17.470196   -708.990508    -2.235736
-23.621418     0.819715    5.793898
1.00000   -17.470196   -654.153897    -2.235736
-13.429959     3.607603    855.691786

ELEM        24 ================== LENGTH
=     4.987464

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -5.755003   -246.440873    -0.434348
 5.285417    4.494994    344.704636
0.25000    -5.755003   -221.646788    -0.434348
 5.285417    5.036568    636.377726
0.50000    -5.755003   -198.278807    -0.434348
 5.285417    5.578143    898.024999
0.75000    -5.755003   -176.336929    -0.434348
 5.285417    6.119717    1131.425
1.00000    -5.755003   -155.821153    -0.434348
 5.285417    6.661291    1338.355

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -20.016869   -623.038936    -1.988863
-64.285618    9.757397    855.518870
0.25000   -20.016869   -568.206761    -1.988863
-54.094983    12.237242    1598.181
0.50000   -20.016869   -513.374586    -1.988863
-43.904348    14.717087    2272.474
0.75000   -20.016869   -458.542412    -1.988863
-33.713713    17.196933    2878.399
1.00000   -20.016869   -403.710237    -1.988863
-23.523078    19.676778    3415.956

ELEM        25 ================== LENGTH
=     4.987177

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -6.555926   -142.345925    -0.420287
 0.315910    8.598101    1338.225
0.25000    -6.555926   -122.544339    -0.420287
 0.315910    9.122112    1503.357
0.50000    -6.555926   -102.742753    -0.420287
 0.315910    9.646123    1643.800
0.75000    -6.555926    -82.941167    -0.420287
 0.315910   10.170134    1759.555
1.00000    -6.555926    -63.139582    -0.420287
 0.315910   10.694145    1850.621

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -22.018589   -374.806635    -1.309693
-49.201058    24.512758    3415.859
0.25000   -22.018589   -319.977613    -1.309693
-39.011009    26.145676    3848.985
0.50000   -22.018589   -265.148590    -1.309693
-28.820960    27.778595    4213.751
0.75000   -22.018589   -210.319568    -1.309693
-18.630911    29.411513    4510.157
1.00000   -22.018589   -155.490546    -1.309693
 -8.440862    31.044431    4738.202
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                          27

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

ELEM        26 ================== LENGTH
=     4.988032

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -6.885642   -49.790854    -0.200488
-1.114011    11.489151    1850.580
0.25000    -6.885642   -29.985871    -0.200488
-1.114011    11.739161    1900.321
0.50000    -6.885642   -10.180888    -0.200488
-1.114011    11.989170    1925.365
0.75000    -6.885642    9.624095    -0.200488
-1.114011    12.239180    1925.712
1.00000    -6.885642   29.429078    -0.200488
-1.114011    12.489190    1901.362

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -22.840024   -127.721876    -0.416569
-22.51112    33.025216    4738.172
0.25000   -22.840024    -72.883446    -0.416569
-12.319314    33.544680    4863.250
0.50000   -22.840024    -18.045017    -0.416569
-2.127517    34.064145    4919.944
0.75000   -22.840024    36.793412    -0.416569
 8.064280    34.583610    4908.254
1.00000   -22.840024    91.631947    -0.416569
18.256078    35.103075    4828.181

ELEM        27 ================== LENGTH
=     4.988005

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -6.659764    42.792670     0.035080
-1.966794    11.941271    1901.402
0.25000    -6.659764    62.597544     0.035080
-1.966794    11.891526    1835.691
0.50000    -6.659764    82.402417     0.035080
-1.966794    11.853781    1745.283
0.75000    -6.659764   102.207291     0.035080
-1.966794    11.810037    1630.179
1.00000    -6.659764   122.012164     0.035080
-1.966794    11.766292    1490.378

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -22.273485   119.434371     0.510161
 5.481712    33.730752    4828.200
0.25000   -22.273485   174.272497     0.510161
15.673453    33.094581    4645.074
0.50000   -22.273485   229.110623     0.510161
25.865194    32.458410    4393.564
0.75000   -22.273485   283.948749     0.510161
36.056935    31.822239    4073.671
1.00000   -22.273485   338.786875     0.510161
46.248676    31.186068    3685.395

ELEM        28 ================== LENGTH
=     4.987103

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -5.942312   135.414436     0.068630
-6.295386    10.026866    1490.501
0.25000    -5.942312   155.928727     0.068630
-6.295386     9.941300    1309.030
0.50000    -5.942312   177.869018     0.068630
-6.295386     9.855734    1101.092
0.75000    -5.942312   201.235308     0.068630
-6.295386     9.770169    864.911622
1.00000    -5.942312   226.027598     0.068630
-6.295386     9.684603    598.709284
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                          28

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -20.495289   367.541421     1.216959
21.577462   26.881001    3685.478
0.25000   -20.495289   422.369627     1.216959
31.767360   25.363726    3193.057
0.50000   -20.495289   477.197834     1.216959
41.957257   23.846452    2632.277
0.75000   -20.495289   532.026041     1.216959
52.147155   22.329177    2003.139
1.00000   -20.495289   586.854247     1.216959
62.337053   20.811903    1305.643

ELEM        29 ================== LENGTH
=     4.988326

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -4.974089   239.041934    -0.050311
15.849847    7.337529    598.907369
0.25000    -4.974089   264.838748    -0.050311
-15.849847    7.400271    284.776544
0.50000    -4.974089   291.206103    -0.050311
-15.849847    7.463012   -61.880764
0.75000    -4.974089   318.143997    -0.050311
-15.849847    7.525754   -441.776065
1.00000    -4.974089   345.654430    -0.050311
-15.849847    7.588496   -855.620867

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -18.120383   617.990058     1.471573
13.687347   15.069869    1305.806
0.25000   -18.120383   672.831711     1.471573
23.879744   13.234697    500.926011
0.50000   -18.120383   727.673363     1.471573
34.072140   11.399526   -372.345915
0.75000   -18.120383   782.515015     1.471573
44.264536    9.564354   -1314.010
1.00000   -18.120383   837.356668     1.471573
54.456933    7.729182   -2324.066

ELEM        30 ================== LENGTH
=     4.986674

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -4.069769   353.851173     0.770162
-22.101175    5.394813   -855.394784
0.25000    -4.069769   382.063439     0.770162
-22.101175    4.434676    -1314.027
0.50000    -4.069769   411.131230     0.770162
-22.101175    3.474540    -1808.363
0.75000    -4.069769   441.054548     0.770162
-22.101175    2.514403    -2339.471
1.00000    -4.069769   471.833393     0.770162
-22.101175    1.554267    -2908.416

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -15.914422   863.702122     1.126550
-6.430623    2.389678    -2323.876
0.25000   -15.914422   918.525619     1.126550
 3.758400    0.985243    -3434.800
0.50000   -15.914422   973.349115     1.126550
13.947422   -0.419192    -4614.070
0.75000   -15.914422  1028.173     1.126550
24.136444   -1.823627    -5861.687
1.00000   -15.914422  1082.996     1.126550
34.325466   -3.228062    -7177.651
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                          29

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

ELEM        31 ================== LENGTH
=     3.491742

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -3.491528   470.227622     5.047435
-11.671983    0.194171    -2908.258
0.25000    -3.491528   492.392766     5.047435
-11.671983    -4.211915    -3328.365
0.50000    -3.491528   515.185551     5.047435
-11.671983    -8.618002    -3768.095
0.75000    -3.491528   538.605977     5.047435
-11.671983   -13.024088    -4227.995
1.00000    -3.491528   562.654043     5.047435
-11.671983   -17.430174    -4708.614

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -14.518786  1091.589     0.602928
-2.555373    -6.552351    -7177.521
0.25000   -14.518786  1129.977     0.602928
 4.579130    -7.078669    -8147.163
0.50000   -14.518786  1168.365     0.602928
11.713633    -7.604986    -9150.315
0.75000   -14.518786  1206.753     0.602928
18.848135    -8.131304   -10186.978
1.00000   -14.518786  1245.142     0.602928
25.982638    -8.657621   -11257.151

ELEM        32 ================== LENGTH
=     3.491035

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000    -3.776171   -537.613767    -4.464630
22.449992   -17.726814    -4709.108
0.25000    -3.776171   -513.570573    -4.464630
22.449992   -13.830270    -4250.439
0.50000    -3.776171   -490.154892    -4.464630
22.449992    -9.933725    -3812.479
0.75000    -3.776171   -467.366725    -4.464630
22.449992    -6.037181    -3394.682
1.00000    -3.776171   -445.206072    -4.464630
22.449992    -2.140636    -2996.500

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
0.00000   -14.235336  -1181.832     0.900546
 2.010873    -9.257977   -11257.136
0.25000   -14.235336   -1143.452     0.900546
 9.143930   -10.043936   -10242.430
0.50000   -14.235336   -1105.071     0.900546
16.276987   -10.829895    -9261.221
0.75000   -14.235336   -1066.691     0.900546
23.410044   -11.615854    -8313.509
```

1.00000 -14.235336 -1028.310 0.900546
30.543101 -12.401813 -7399.294

ELEM 33 ========== LENGTH = 4.987993

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.117191	-446.663509	-0.220673
32.785956	-1.337552	-2986.665	
0.25000	-4.117191	-415.876523	-0.220673
32.785956	-1.062372	-2458.961	
0.50000	-4.117191	-385.945290	-0.220673
32.785956	-0.787193	-1959.115	
0.75000	-4.117191	-356.869809	-0.220673
32.785956	-0.512013	-1496.059	
1.00000	-4.117191	-328.650081	-0.220673
32.785956	-0.236834	-1068.727	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 30
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.152976	-1019.397	0.296631
-6.455580	-10.203097	-7399.469	
0.25000	-15.152976	-964.559279	0.296631
3.736137	-10.572996	-6162.474	
0.50000	-15.152976	-909.721280	0.296631
13.927854	-10.942895	-4993.861	
0.75000	-15.152976	-854.883282	0.296631
24.119571	-11.312794	-3893.632	
1.00000	-15.152976	-800.045284	0.296631
34.311289	-11.682693	-2861.785	

ELEM 34 ========== LENGTH = 4.987797

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.811149	-320.387728	0.599740
24.993806	1.454399	-1068.979	
0.25000	-4.811149	-292.882212	0.599740
24.993806	0.706555	-686.680008	
0.50000	-4.811149	-265.947176	0.599740
24.993806	-0.041290	-338.323379	
0.75000	-4.811149	-239.582619	0.599740
24.993806	-0.789135	-23.197691	
1.00000	-4.811149	-213.788541	0.599740
24.993806	-1.536980	259.408415	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.937725	-773.589632	-0.054892
-30.370298	-7.345408	-2862.059	
0.25000	-16.937725	-718.753797	-0.054892
-20.178983	-7.276960	-1931.621	
0.50000	-16.937725	-663.917962	-0.054892
-9.987668	-7.208513	-1069.560	
0.75000	-16.937725	-609.082127	-0.054892
0.203647	-7.140065	-275.876989	
1.00000	-16.937725	-554.246292	-0.054892
10.394962	-7.071617	449.428689	

ELEM 35 ========== LENGTH = 4.987697

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.594396	-200.826112	0.481604
13.705823	0.363402	259.197124	
0.25000	-5.594396	-176.030868	0.481604
13.705823	-0.231122	494.004977	
0.50000	-5.594396	-152.661793	0.481604
13.705823	-0.831646	698.784203	
0.75000	-5.594396	-130.718889	0.481604
13.705823	-1.432170	875.313126	
1.00000	-5.594396	-110.202153	0.481604
13.705823	-2.032694	1025.370	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.957142	-523.254361	0.197392
-42.624738	-2.173578	449.215465	
0.25000	-18.957142	-468.419622	0.197392
-32.433626	-2.419711	1067.487	
0.50000	-18.957142	-413.584882	0.197392
-22.242515	-2.665844	1617.383	
0.75000	-18.957142	-358.750143	0.197392
-12.051403	-2.911978	2098.905	
1.00000	-18.957142	-303.915404	0.197392
-1.860291	-3.158111	2512.051	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 31
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 36 ========== LENGTH = 4.987679

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.183230	-96.707586	0.504263
6.521269	-0.598589	1025.234	
0.25000	-6.183230	-76.904006	0.504263
6.521269	-1.227364	1133.473	
0.50000	-6.183230	-57.100425	0.504263
6.521269	-1.856140	1217.020	
0.75000	-6.183230	-37.296844	0.504263
6.521269	-2.484916	1275.873	
1.00000	-6.183230	-17.493263	0.504263
6.521269	-3.113692	1310.032	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.523890	-274.913567	0.870845
-33.814217	0.648588	2511.902	
0.25000	-20.523890	-220.079021	0.870845
-23.623142	-0.437286	2820.510	
0.50000	-20.523890	-165.244474	0.870845
-13.432066	-1.523160	3060.744	
0.75000	-20.523890	-110.409928	0.870845
-3.240990	-2.609034	3232.604	
1.00000	-20.523890	-55.575381	0.870845
6.950086	-3.694908	3336.089	

ELEM 37 ========== LENGTH = 4.987874

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.373080	-4.142044	0.693362
2.824370	-2.646216	1309.978	
0.25000	-6.373080	15.662310	0.693362
2.824370	-3.510817	1302.795	
0.50000	-6.373080	35.466664	0.693362
2.824370	-4.375418	1270.917	
0.75000	-6.373080	55.271018	0.693362
2.824370	-5.240019	1214.344	
1.00000	-6.373080	75.075372	0.693362
2.824370	-6.104619	1133.075	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.115658	-27.782135	1.681537
-13.146012	-2.246492	3336.011	
0.25000	-21.115658	27.054553	1.681537
-2.954538	-4.343317	3336.465	
0.50000	-21.115658	81.891241	1.681537
7.236936	-6.440141	3268.539	
0.75000	-21.115658	136.727929	1.681537
17.428410	-8.536965	3132.234	
1.00000	-21.115658	191.564617	1.681537
27.619883	-10.633789	2927.548	

ELEM 38 ========== LENGTH = 4.987099

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.128859	88.441072	0.747530
-2.410200	-6.687857	1133.106	
0.25000	-6.128859	108.242349	0.747530
-2.410200	-7.619859	1010.496	
0.50000	-6.128859	128.043625	0.747530
-2.410200	-8.551861	863.196627	
0.75000	-6.128859	147.844901	0.747530
-2.410200	-9.483863	691.213204	
1.00000	-6.128859	167.646178	0.747530
-2.410200	-10.415865	494.540050	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 32
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.630535	219.447396	2.193521
3.585593	-11.789980	2927.534	
0.25000	-20.630535	274.275562	2.193521
13.775483	-14.524866	2619.753	
0.50000	-20.630535	329.103728	2.193521
23.965373	-17.259632	2243.614	
0.75000	-20.630535	383.931894	2.193521
34.155263	-19.994458	1799.117	
1.00000	-20.630535	438.760060	2.193521
44.345153	-22.729284	1286.261	

ELEM 39 ========== LENGTH = 4.987497

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.563775	181.426982	0.342264
-13.123750	-11.779533	494.660421	
0.25000	-5.563775	201.942893	0.342264
-13.123750	-12.206293	255.801611	
0.50000	-5.563775	223.884917	0.342264
-13.123750	-12.633052	5.557050	
0.75000	-5.563775	247.253053	0.342264
-13.123750	-13.059812	-303.103744	
1.00000	-5.563775	272.047301	0.342264
-13.123750	-13.486571	-626.706653	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.350129	468.627595	1.943748
3.344599	-25.814748	1286.325	
0.25000	-19.350129	523.460132	1.943748
13.535302	-28.238358	667.821223	
0.50000	-19.350129	578.292669	1.943748
23.726004	-30.661967	-19.052316	
0.75000	-19.350129	633.125206	1.943748
33.916706	-33.085576	-774.295128	
1.00000	-19.350129	687.957744	1.943748
44.107409	-35.509185	-1597.907	

ELEM 40 ========== LENGTH = 4.988083

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.938914	285.053952	-0.174303
-30.083999	-15.002439	-626.502561	
0.25000	-4.938914	310.849512	-0.174303
-30.083999	-14.785080	-997.995275	
0.50000	-4.938914	337.215584	-0.174303
-30.083999	-14.567721	-1402.011	
0.75000	-4.938914	364.152169	-0.174303
-30.083999	-14.350362	-1839.262	
1.00000	-4.938914	391.659264	-0.174303
-30.083999	-14.133003	-2310.459	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.924988	719.489889	1.394730
-23.954917	-38.952369	-1597.750	
0.25000	-17.924988	774.328874	1.394730
-13.763016	-40.691626	-2529.162	
0.50000	-17.924988	829.167860	1.394730
-3.571115	-42.430884	-3528.959	
0.75000	-17.924988	884.006846	1.394730
6.620785	-44.170142	-4597.141	
1.00000	-17.924988	938.845831	1.394730
16.812686	-45.909400	-5733.708	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 33
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 41 ========== LENGTH = 4.987670

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.571138	400.245094	2.468789
-46.259059	-15.022574	-2310.222	
0.25000	-4.571138	428.462996	2.468789
-46.259059	-18.100950	-2826.798	
0.50000	-4.571138	457.536595	2.468789
-46.259059	-21.179326	-3379.093	
0.75000	-4.571138	487.465891	2.468789
-46.259059	-24.257702	-3968.175	
1.00000	-4.571138	518.250884	2.468789
-46.259059	-27.336078	-4595.109	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.115273	967.192877	5.202832
-71.135967	-47.858371	-5733.461	
0.25000	-17.115273	1022.027	5.202832
-60.944909	-54.345874	-6973.657	
0.50000	-17.115273	1076.862	5.202832
-50.753851	-60.833377	-8282.228	
0.75000	-17.115273	1131.696	5.202832
-40.562793	-67.320880	-9659.173	
1.00000	-17.115273	1186.531	5.202832
-30.371736	-73.808383	-11104.492	
1.00000	-6.373080	75.075372	0.693362
2.824370	-6.104619	1133.075	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.776816	516.606218	15.293581
-46.867932	-26.794288	-4594.939	
0.25000	-4.776816	538.767788	15.293581
-46.867932	-40.142447	-5055.456	
0.50000	-4.776816	561.556897	15.293581
-46.867932	-53.490605	-5535.589	
0.75000	-4.776816	584.973546	15.293581
-46.867932	-66.838764	-6035.887	
1.00000	-4.776816	609.017734	15.293581
-46.867932	-80.186922	-6556.896	

ELEM 42 ========== LENGTH = 3.491179

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.776816	516.606218	15.293581
-46.867932	-26.794288	-4594.939	
0.25000	-4.776816	538.767788	15.293581
-46.867932	-40.142447	-5055.456	
0.50000	-4.776816	561.556897	15.293581
-46.867932	-53.490605	-5535.589	
0.75000	-4.776816	584.973546	15.293581
-46.867932	-66.838764	-6035.887	
1.00000	-4.776816	609.017734	15.293581
-46.867932	-80.186922	-6556.896	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.689314	1196.100	23.400449
-97.476548	-72.357201	-11104.330	
0.25000	-17.689314	1234.482	23.400449
-90.343196	-92.780991	-12165.030	
0.50000	-17.689314	1272.864	23.400449
-83.209844	-113.204782	-13259.229	
0.75000	-17.689314	1311.246	23.400449
-76.076492	-133.628572	-14386.928	
1.00000	-17.689314	1349.628	23.400449
-68.943140	-154.052363	-15548.127	

ELEM 43 ========== LENGTH = 4.987727

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.782377	-692.838313	-12.652274
7.744941	-78.345895	-6563.218	
0.25000	-10.782377	-658.772452	-12.652274
7.744941	-62.569374	-5720.688	
0.50000	-10.782377	-626.173605	-12.652274
7.744941	-46.792853	-4919.720	
0.75000	-10.782377	-595.041773	-12.652274
7.744941	-31.016332	-4158.486	
1.00000	-10.782377	-565.376957	-12.652274
7.744941	-15.239812	-3435.157	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 34
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.568020	-1554.479	-20.267557
-62.838142	-133.831442	-15557.605	
0.25000	-27.568020	-1499.644	-20.267557
-52.646969	-124.059183	-13653.464	
0.50000	-27.568020	-1444.809	-20.267557
-42.455797	-98.786924	-11817.698	
0.75000	-27.568020	-1389.974	-20.267557
-32.264624	-73.514664	-10050.308	
1.00000	-27.568020	-1335.139	-20.267557
-22.073451	-48.242405	-8351.294	

ELEM 44 ========== LENGTH = 4.987797

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.208641	-564.321516	-2.146178
2.966127	-11.859806	-3435.388	
0.25000	-12.208641	-535.817657	-2.146178
2.966127	-9.183630	-2749.568	
0.50000	-12.208641	-508.166517	-2.146178
2.966127	-6.507455	-2098.757	
0.75000	-12.208641	-481.377096	-2.146178
2.966127	-3.831279	-1481.889	
1.00000	-12.208641	-455.440394	-2.146178
2.966127	-1.155104	-897.895673	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-31.160830	-1318.096	-5.347884
-100.572967	-39.676384	-8351.486	
0.25000	-31.160830	-1263.260	-5.347884
-90.381650	-33.007844	-6742.076	
0.50000	-31.160830	-1208.424	-5.347884
-80.190333	-26.339303	-5201.044	
0.75000	-31.160830	-1153.588	-5.347884
-69.999017	-19.670763	-3728.389	
1.00000	-31.160830	-1098.753	-5.347884
-59.807700	-13.002222	-2324.111	

ELEM 45 ========== LENGTH = 4.986834

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.069078	-445.496191	-0.603470
-8.424027	3.336953	-898.151738	
0.25000	-14.069078	-420.277460	-0.603470
-8.424027	4.089304	-358.527314	
0.50000	-14.069078	-395.629098	-0.603470
-8.424027	4.841655	150.012224	
0.75000	-14.069078	-371.551105	-0.603470
-8.424027	5.594006	628.178026	
1.00000	-14.069078	-348.043482	-0.603470
-8.424027	6.346357	1076.681	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-35.792464	-1070.324	-3.052263
-127.205842	-1.838212	-2324.330	
0.25000	-35.792464	-1015.499	-3.052263
-117.016494	1.967070	-1024.123	
0.50000	-35.792464	-960.673401	-3.052263
-106.827145	5.772351	207.732012	
0.75000	-35.792464	-905.848148	-3.052263
-96.637797	9.577633	1371.236	
1.00000	-35.792464	-851.022895	-3.052263
-86.448448	13.382915	2466.389	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 35
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 46 ========== LENGTH = 4.988071

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.943357	-334.698535	-1.186974
-15.889409	10.869556	1076.473	
0.25000	-15.943357	-311.612962	-1.186974
-15.889409	12.349733	1479.424	
0.50000	-15.943357	-288.812645	-1.186974
-15.889409	13.829911	1853.766	
0.75000	-15.943357	-266.297584	-1.186974
-15.889409	15.310088	2199.852	
1.00000	-15.943357	-244.067777	-1.186974
-15.889409	16.790266	2518.040	
LOAD	CONC ----------		

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-40.459558	-819.791529	-3.611593
-128.004903	24.629020	2466.261	
0.25000	-40.459558	-764.952676	-3.611593
-117.813027	29.132741	3454.363	
0.50000	-40.459558	-710.113823	-3.611593
-107.621151	33.636462	4374.080	
0.75000	-40.459558	-655.274969	-3.611593
-97.429275	38.140183	5225.412	
1.00000	-40.459558	-600.436116	-3.611593
-87.237399	42.643904	6008.359	

ELEM 47 ========== LENGTH = 4.987346

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.410771	-230.510525	-1.384001
-14.631782	20.319971	2517.902	
0.25000	-17.410771	208.426557	-1.384001
-14.631782	22.045593	2791.444	
0.50000	-17.410771	186.342589	-1.384001
-14.631782	23.771215	3037.650	
0.75000	-17.410771	164.258621	-1.384001
-14.631782	25.496838	3256.221	
1.00000	-17.410771	142.174653	-1.384001
-14.631782	27.222460	3447.257	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-44.174774	-571.349522	-3.506930
-98.870548	51.573593	6008.275	
0.25000	-44.174774	-516.518640	-3.506930
-88.680153	55.946162	6686.472	
0.50000	-44.174774	-461.687758	-3.506930
-78.489759	60.318730	7296.304	
0.75000	-44.174774	-406.856876	-3.506930
-68.299364	64.691299	7837.770	
1.00000	-44.174774	-352.025995	-3.506930
-58.108969	69.063868	8310.872	

ELEM 48 ========== LENGTH = 4.987936

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.170658	-128.958507	-1.165061
-4.999713	29.037480	3447.200	
0.25000	-18.170658	-106.871925	-1.165061
-4.999713	30.490293	3594.238	
0.50000	-18.170658	-84.785343	-1.165061
-4.999713	31.943106	3713.735	
0.75000	-18.170658	-62.698762	-1.165061
-4.999713	33.395919	3805.690	
1.00000	-18.170658	-40.612180	-1.165061
-4.999713	34.848732	3870.104	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 36
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-46.214818	-325.183496	-2.815687
-44.379344	73.936430	8310.848	
0.25000	-46.214818	-270.346125	-2.815687
-34.187743	77.447547	8682.156	
0.50000	-46.214818	-215.508754	-2.815687
-23.996142	80.958664	8985.082	
0.75000	-46.214818	-160.671383	-2.815687
-13.804541	84.469780	9219.628	
1.00000	-46.214818	-105.834012	-2.815687
-3.612941	87.980897	9385.792	

ELEM 49 ========== LENGTH = 4.987455

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.077766	-27.595151	-0.655970
6.544611	34.602532	3870.114	
0.25000	-18.077766	-5.510701	-0.655970
6.544611	35.420437	3890.754	
0.50000	-18.077766	16.573748	-0.655970
6.544611	36.238342	3883.857	
0.75000	-18.077766	38.658198	-0.655970
6.544611	37.056246	3849.423	
1.00000	-18.077766	60.742648	-0.655970
6.544611	37.874151	3787.454	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-46.221484	-80.130440	-1.476623
17.299660	87.938081	9385.760	
0.25000	-46.221484	-25.298363	-1.476623
27.490277	89.779229	9451.488	
0.50000	-46.221484	29.533715	-1.476623
37.680894	91.620377	9448.847	
0.75000	-46.221484	84.365793	-1.476623
47.871511	93.461525	9377.839	
1.00000	-46.221484	139.197871	-1.476623
58.062128	95.302674	9238.462	

ELEM 50 ========== LENGTH = 4.988196

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.107753	74.093286	0.555805
16.928429	35.512017	3787.537	
0.25000	-17.107753	96.181017	0.555805
16.928429	34.818901	3681.867	
0.50000	-17.107753	118.268748	0.555805
16.928429	34.125784	3547.652	
0.75000	-17.107753	140.356480	0.555805
16.928429	33.432667	3386.393	
1.00000	-17.107753	162.444211	0.555805
16.928429	32.739551	3197.590	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-44.123879	165.640973	1.988590
76.655403	90.154881	9238.434	
0.25000	-44.123879	220.481198	1.988590
86.847534	87.705012	8997.677	
0.50000	-44.123879	275.321424	1.988590
97.039666	85.225142	8688.532	
0.75000	-44.123879	330.161649	1.988590
107.231797	82.745272	8310.999	
1.00000	-44.123879	385.001874	1.988590
117.423928	80.265403	7865.077	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 37
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 51 ========== LENGTH = 4.987077

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.339657	176.773219	2.877627
20.226154	28.464573	3197.749	
0.25000	-15.339657	198.570796	2.877627
20.226154	24.876836	2963.706	
0.50000	-15.339657	219.797976	2.877627
20.226154	21.289099	2702.842	
0.75000	-15.339657	240.454759	2.877627
20.226154	17.701363	2415.868	
1.00000	-15.339657	260.541145	2.877627
20.226154	14.113626	2103.496	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-40.088901	414.863828	8.889385
115.598284	70.512041	7865.062	
0.25000	-40.088901	469.691749	8.889385
125.788128	59.429030	7313.644	
0.50000	-40.088901	524.519669	8.889385
135.977972	48.346019	6693.867	
0.75000	-40.088901	579.347589	8.889385
146.167816	37.263008	6005.734	
1.00000	-40.088901	634.175509	8.889385
156.357661	26.179996	5249.242	

ELEM 52 ========== LENGTH = 4.988071

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.948877	273.645479	2.754432
18.739753	4.311827	2103.746	
0.25000	-12.948877	293.369090	2.754432
18.739753	4.880002	1750.191	
0.50000	-12.948877	312.929654	2.754432
18.739753	1.445176	1372.141	
0.75000	-12.948877	332.327170	2.754432
18.739753	-1.989649	969.800836	
1.00000	-12.948877	351.561638	2.754432
18.739753	-5.424474	543.373171	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.484363	665.495559	8.345518
130.406862	12.597813	5249.340	
0.25000	-34.484363	720.334409	8.345518
140.598737	2.190805	4385.263	
0.50000	-34.484363	775.173259	8.345518
150.790613	-8.216204	3452.801	
0.75000	-34.484363	830.012109	8.345518
160.982488	-18.623212	2451.953	
1.00000	-34.484363	884.850959	8.345518
171.174364	-29.030221	1382.721	

ELEM 53 ========== LENGTH = 1.495611

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.134864	356.655502	-14.794568
31.053558	-14.135464	543.840044	
0.25000	-9.134864	362.398274	-14.794568
31.053558	-8.603734	409.411959	
0.50000	-9.134864	368.141046	-14.794568
31.053558	-3.072005	272.836637	
0.75000	-9.134864	373.883817	-14.794568
31.053558	2.459724	134.114077	
1.00000	-9.134864	379.626589	-14.794568
31.053558	7.991453	-6.75721	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 38

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.351501	905.457818	-46.192537
152.492094	-49.887669	1383.509	
0.25000	-25.351501	921.900565	-46.192537
155.548001	-32.616153	1041.881	
0.50000	-25.351501	938.343311	-46.192537
158.603908	-15.344638	694.106241	
0.75000	-25.351501	954.786057	-46.192537
161.659815	1.926878	340.183123	
1.00000	-25.351501	971.228804	-46.192537
164.715722	19.198394	-19.887982	

ELEM 54 ========== LENGTH = 4.462150

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.331906	-323.697579	-2.481920
-21.661684	7.474542	1,159393	
0.25000	1.331906	-306.491109	-2.481920
-21.661684	10.243217	352.672530	
0.50000	1.331906	-289.138783	-2.481920
-21.661684	13.011892	684.909849	
0.75000	1.331906	-271.640600	-2.481920
-21.661684	15.780566	997.708642	
1.00000	1.331906	-253.996561	-2.481920
-21.661684	18.549241	1290.906	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.056138	-810.099121	-7.988485
-139.190255	17.970931	3.985720	
0.25000	4.056138	-761.381364	-7.988485
-132.537189	26.882386	880.508478	
0.50000	4.056138	-712.663608	-7.988485
-125.884123	35.793842	1702.685	
0.75000	4.056138	-663.945851	-7.988485
-119.231057	44.705298	2470.515	
1.00000	4.056138	-615.228095	-7.988485
-112.577991	53.616753	3183.998	

ELEM 55 ========== LENGTH = 4.958110

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.301830	-229.342736	2.882709
-28.601004	26.866829	1290.532	
0.25000	1.301830	-209.373020	2.882709
-28.601004	23.293633	1562.491	
0.50000	1.301830	-188.836221	2.882709
-28.601004	19.720437	1809.345	
0.75000	1.301830	-167.732337	2.882709
-28.601004	16.147241	2030.392	
1.00000	1.301830	-146.061370	2.882709
-28.601004	12.574045	2224.928	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.932861	-562.443541	8.306724
-159.863706	73.679178	3183.460	
0.25000	3.932861	-508.310901	8.306724
-152.471165	63.382767	3847.075	
0.50000	3.932861	-454.178262	8.306724
-145.078623	53.086355	4443.591	
0.75000	3.932861	-400.045622	8.306724
-137.686082	42.789943	4973.008	
1.00000	3.932861	-345.912982	8.306724
-130.293541	32.493532	5435.326	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 39

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 56 ========== LENGTH = 4.958296

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.297640	-132.840333	1.347303
-18.720928	18.567732	2224.684	
0.25000	1.297640	-110.884998	1.347303
-18.720928	16.897651	2375.742	
0.50000	1.297640	-88.929662	1.347303
-18.720928	15.227570	2499.584	
0.75000	1.297640	-66.974327	1.347303
-18.720928	13.557488	2596.212	
1.00000	1.297640	-45.018991	1.347303
-18.720928	11.887407	2665.624	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.891079	-318.849669	3.670499
-108.589472	47.002641	5435.038	
0.25000	3.891079	-264.714991	3.670499
-101.196652	42.452786	5796.724	
0.50000	3.891079	-210.580313	3.670499
-93.803833	37.902930	6091.305	
0.75000	3.891079	-156.445636	3.670499
-86.411013	33.353075	6318.783	
1.00000	3.891079	-102.310958	3.670499
-79.018194	28.803220	6479.157	

ELEM 57 ========== LENGTH = 4.957389

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.286056	-33.292370	0.407340
-2.380603	14.842016	2665.502	
0.25000	1.286056	-11.341051	0.407340
-2.380603	14.337180	2693.160	
0.50000	1.286056	10.610267	0.407340
-2.380603	13.832345	2693.613	
0.75000	1.286056	32.561585	0.407340
-2.380603	13.327510	2666.861	
1.00000	1.286056	54.512903	0.407340
-2.380603	12.822674	2612.903	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.827641	-77.998026	0.943197
-32.680452	35.918414	6479.024	
0.25000	3.827641	-23.873254	0.943197
-25.288986	34.749466	6542.151	
0.50000	3.827641	30.251518	0.943197
-17.897519	33.580517	6538.198	
0.75000	3.827641	84.376291	0.943197
-10.506052	32.411569	6467.166	
1.00000	3.827641	138.501063	0.943197
-3.114585	31.242621	6329.055	

ELEM 58 ========== LENGTH = 4.957821

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.263162	66.948343	0.192111
13.160414	12.416588	2612.901	
0.25000	1.263162	88.901573	0.192111
13.160414	12.178476	2516.316	
0.50000	1.263162	110.854803	0.192111
13.160414	11.940363	2392.522	
0.75000	1.263162	132.808033	0.192111
13.160414	11.702250	2241.517	
1.00000	1.263162	154.761263	0.192111
13.160414	11.464137	2063.303	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 40

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.731375	164.208513	0.439273
40.723991	30.188538	6329.026	
0.25000	3.731375	218.337999	0.439273
48.116102	29.644079	6091.952	
0.50000	3.731375	272.467485	0.439273
55.508212	29.099620	5787.786	
0.75000	3.731375	326.596972	0.439273
62.900323	28.555162	5416.529	
1.00000	3.731375	380.726458	0.439273
70.292433	28.010703	4978.182	

ELEM 59 ========== LENGTH = 4.958370

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.235506	167.177016	0.242673
25.541948	8.079466	2063.408	
0.25000	1.235506	189.274459	0.242673
25.541948	7.778650	1842.510	
0.50000	1.235506	211.655458	0.242673
25.541948	7.477834	1594.044	
0.75000	1.235506	234.320014	0.242673
25.541948	7.177018	1317.659	
1.00000	1.235506	257.268127	0.242673
25.541948	6.876202	1013.004	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.619782	406.316711	0.404969
100.515023	19.748061	4978.257	
0.25000	3.619782	460.452199	0.404969
107.907953	19.246064	4441.037	
0.50000	3.619782	514.587687	0.404969
115.300883	18.744068	3836.711	
0.75000	3.619782	568.723175	0.404969
122.693814	18.242072	3165.279	
1.00000	3.619782	622.858663	0.404969
130.086744	17.740075	2426.741	

ELEM 60 ========== LENGTH = 4.957854

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.203020	271.054710	0.643881
33.395628	1.568088	1013.168	
0.25000	1.203020	294.425726	0.643881
33.395628	0.770021	662.780151	
0.50000	1.203020	318.363796	0.643881
33.395628	-0.028046	283.073562	
0.75000	1.203020	342.868922	0.643881
33.395628	-0.826113	-126.654817	
1.00000	1.203020	367.941102	0.643881
33.395628	-1.624180	-567.107829	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.494240	651.599810	0.608586
137.788511	4.861141	2426.811	
0.25000	3.494240	705.729665	0.608586
145.180672	4.106820	1585.631	
0.50000	3.494240	759.859520	0.608586
152.572833	3.352499	677.358345	
0.75000	3.494240	813.989375	0.608586
159.964994	2.598179	-298.005878	
1.00000	3.494240	868.119231	0.608586
167.357155	1.843858	-1340.462	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 41

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 61 ========== LENGTH = 4.957653

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.174110	389.204037	0.736072
34.241737	-7.278649	-566.932859	
0.25000	1.174110	414.983988	0.736072
34.241737	-8.190946	-1065.206	
0.50000	1.174110	441.614487	0.736072
34.241737	-9.103243	-1595.958	
0.75000	1.174110	469.095533	0.736072
34.241737	-10.015540	-2160.243	
1.00000	1.174110	497.427127	0.736072
34.241737	-10.927837	-2759.115	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.385286	912.901429	1.144178
135.017579	-11.771683	-1340.374	
0.25000	3.385286	967.029086	1.144178
142.409440	-13.189792	-2505.980	
0.50000	3.385286	1021.157	1.144178
149.801301	-14.607902	-3737.472	
0.75000	3.385286	1075.284	1.144178
157.193161	-16.026012	-5036.650	
1.00000	3.385286	1129.412	1.144178
164.585022	-17.444122	-6402.915	

ELEM 62 ========== LENGTH = 4.958565

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.132579	537.671880	-2.974295
25.667696	-15.101160	-2759.010	
0.25000	1.132579	567.163257	-2.974295
25.667696	-11.414101	-3443.659	
0.50000	1.132579	598.113072	-2.974295
25.667696	-7.727042	-4165.771	
0.75000	1.132579	630.521325	-2.974295
25.667696	-4.039982	-4927.153	
1.00000	1.132579	664.388016	-2.974295
25.667696	-0.352923	-5729.614	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.281790	1217.159	0.831423
72.319274	-27.416082	-6402.897	
0.25000	3.281790	1271.297	0.831423
79.712495	-28.446748	-7945.293	
0.50000	3.281790	1325.434	0.831423
87.105716	-29.477414	-9554.800	
0.75000	3.281790	1379.572	0.831423
94.498937	-30.508080	-11231.419	
1.00000	3.281790	1433.709	0.831423
101.892158	-31.538746	-12975.149	

ELEM 63 ========== LENGTH = 3.469994

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.694221	-648.201287	4.494003
-10.857239	-1.104300	-5730.125	
0.25000	0.694221	-624.303006	4.494003
-10.857239	-5.002841	-5178.222	
0.50000	0.694221	-601.028456	4.494003
-10.857239	-8.901381	-4646.781	
0.75000	0.694221	-578.377638	4.494003
-10.857239	-12.799921	-4135.259	
1.00000	0.694221	-556.350551	4.494003
-10.857239	-16.698462	-3643.117	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 42

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.156589	-1361.173	-0.117933
-40.402678	-33.976500	-12975.242	
0.25000	3.156589	-1323.288	-0.117933
-35.228917	-33.874193	-11810.859	
0.50000	3.156589	-1285.402	-0.117933
-30.055157	-33.771887	-10679.342	
0.75000	3.156589	-1247.517	-0.117933
-24.881396	-33.669580	-9580.690	
1.00000	3.156589	-1209.632	-0.117933
-19.707635	-33.567273	-8514.904	

ELEM 64 ========== LENGTH = 4.958201

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.685120	-514.181749	-0.283709
-20.525623	-14.697946	-3643.178	
0.25000	0.685120	-483.578645	-0.283709
-20.525623	-14.346274	-3024.878	
0.50000	0.685120	-453.826183	-0.283709
-20.525623	-13.994603	-2443.986	
0.75000	0.685120	-424.924362	-0.283709
-20.525623	-13.642931	-1899.446	
1.00000	0.685120	-396.873183	-0.283709
-20.525623	-13.291259	-1390.204	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.062722	-1123.600	-0.805600
-119.100611	-29.850396	-8514.822	
0.25000	3.062722	-1069.466	-0.805600
-111.707933	-28.851815	-7155.615	
0.50000	3.062722	-1015.332	-0.805600
-104.315255	-27.853233	-5863.509	
0.75000	3.062722	-961.198580	-0.805600
-96.922577	-26.854651	-4638.504	
1.00000	3.062722	-907.064937	-0.805600
-89.529898	-25.856069	-3480.601	

ELEM 65 ========== LENGTH = 4.957300

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.671781	-371.998430	-0.516174
-24.887412	-9.372599	-1390.321	
0.25000	0.671781	-344.661088	-0.516174
-24.887412	-8.732892	-946.292045	
0.50000	0.671781	-317.890737	-0.516174
-24.887412	-8.093185	-535.792059	
0.75000	0.671781	-291.687377	-0.516174
-24.887412	-7.453478	-158.117897	
1.00000	0.671781	-266.051009	-0.516174
-24.887412	-6.813771	187.433128	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.990536	-852.833123	-0.203681
-144.991667	-17.358498	-3480.497	
0.25000	2.990536	-798.709319	-0.203681
-137.600332	-17.106071	-2457.098	
0.50000	2.990536	-744.585514	-0.203681
-130.208998	-16.853645	-1500.776	
0.75000	2.990536	-690.461710	-0.203681
-122.817663	-16.601218	-611.530562	
1.00000	2.990536	-636.337905	-0.203681
-115.426328	-16.348792	210.637450	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 43

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 66 ========== LENGTH = 4.958662

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.658327	-250.962154	-0.048192
-21.075298	-2.467232	187.282357	
0.25000	0.658327	-226.122201	-0.048192
-21.075298	-2.407491	482.887452	
0.50000	0.658327	-202.322018	-0.048192
-21.075298	-2.347749	748.343798	
0.75000	0.658327	-179.561605	-0.048192
-21.075298	-2.288008	984.940361	
1.00000	0.658327	-157.840960	-0.048192
-21.075298	-2.228266	1193.966	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.932371	-604.878264	0.111281
124.135192	-6.525356	210.633859	
0.25000	2.932371	-550.739593	0.111281
-116.741827	-6.663307	926.923656	
0.50000	2.932371	-496.600921	0.111281
-109.348462	-6.801259	1576.100	
0.75000	2.932371	-442.462249	0.111281
-101.955097	-6.939210	2158.162	
1.00000	2.932371	-388.323577	0.111281
-94.561732	-7.077161	2673.110	

ELEM 67 ========== LENGTH = 4.958084

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.645320	-145.414060	0.041497
-12.090120	1.106153	1193.853	
0.25000	0.645320	-124.215770	0.041497
-12.090120	1.054717	1360.959	
0.50000	0.645320	-103.017480	0.041497
-12.090120	1.003280	1501.789	
0.75000	0.645320	-81.819190	0.041497
-12.090120	0.951844	1616.343	
1.00000	0.645320	-60.620900	0.041497
-12.090120	0.900407	1704.622	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.879014	-362.559483	0.043236
-75.621251	0.568601	2673.083	
0.25000	2.879014	-308.427117	0.043236
-68.228747	0.515099	3088.934	
0.50000	2.879014	-254.294752	0.043236
-60.836243	0.461417	3437.687	
0.75000	2.879014	-200.162386	0.043236
-53.443739	0.407826	3719.341	
1.00000	2.879014	-146.030021	0.043236
-46.051235	0.354234	3933.898	

ELEM 68 ========== LENGTH = 4.957689

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.632150	-47.829782	-0.092490
-1.137543	2.133847	1704.583	
0.25000	0.632150	-26.633185	-0.092490
-1.137543	2.248482	1750.729	
0.50000	0.632150	-5.436587	-0.092490
-1.137543	2.363116	1771.603	
0.75000	0.632150	15.760010	-0.092490
-1.137543	2.477751	1764.205	
1.00000	0.632150	36.956608	-0.092490
-1.137543	2.592385	1731.536	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 44

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.827682	-119.664040	-0.226882
-17.376711	3.152723	3933.887	
0.25000	2.827682	-65.535996	-0.226882
-9.984797	3.433926	4048.658	
0.50000	2.827682	-11.407952	-0.226882
-2.592883	3.715129	4096.341	
0.75000	2.827682	42.720091	-0.226882
4.799030	3.996332	4076.936	
1.00000	2.827682	96.848135	-0.226882
12.190944	4.277536	3990.444	

ELEM 69 ========== LENGTH = 4.957308

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.617458	49.773932	-0.228587
10.558888	1.359243	1731.589	
0.25000	0.617458	70.968902	-0.228587
10.558888	1.642537	1656.769	
0.50000	0.617458	92.163872	-0.228587
10.558888	1.925832	1555.682	
0.75000	0.617458	113.358841	-0.228587
10.558888	2.209127	1428.327	
1.00000	0.617458	134.553811	-0.228587
10.558888	2.492421	1274.705	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.774818	123.294402	-0.507260
42.481424	1.334553	3990.482	
0.25000	2.774818	177.418289	-0.507260
49.872770	1.963214	3804.141	
0.50000	2.774818	231.542176	-0.507260
57.264116	2.591875	3550.723	
0.75000	2.774818	285.666063	-0.507260
64.655462	3.220536	3230.228	
1.00000	2.774818	339.789950	-0.507260
72.046808	3.849198	2842.656	

ELEM 70 ========== LENGTH = 4.958153

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.604355	146.977393	-0.143046
19.897800	-0.893191	1274.831	
0.25000	0.604355	168.695809	-0.143046
19.897800	-0.715880	1079.294	
0.50000	0.604355	191.453888	-0.143046
19.897800	-0.538569	856.191524	
0.75000	0.604355	215.251630	-0.143046
19.897800	-0.361258	604.235374	
1.00000	0.604355	240.089034	-0.143046
19.897800	-0.183947	322.136658	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.728487	365.549086	-0.591517
91.481722	-4.041595	2842.730	
0.25000	2.728487	419.682205	-0.591517
98.874328	-3.308386	2356.068	
0.50000	2.728487	473.815323	-0.591517
106.266935	-2.575178	1802.306	
0.75000	2.728487	527.948442	-0.591517
113.659542	-1.841970	1181.443	
1.00000	2.728487	582.081561	-0.591517
121.052149	-1.108762	493.480908	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 71 ========== LENGTH = 4.958076

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.590063	255.384659	0.302049
24.757261	-4.672671	322.253458	
0.25000	0.590063	281.025039	0.302049
24.757261	-5.047066	-10.092969	
0.50000	0.590063	307.232499	0.302049
24.757261	-5.421462	-374.612586	
0.75000	0.590063	334.007039	0.302049
24.757261	-5.795858	-771.968300	
1.00000	0.590063	361.348658	0.302049
24.757261	-6.170253	-1202.863	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.683360	614.067202	-0.286538
114.387648	-11.353248	493.502015	
0.25000	2.683360	668.199475	-0.286538
121.780139	-10.998080	-301.194929	
0.50000	2.683360	722.331748	-0.286538
129.172630	-10.642911	-1162.990	
0.75000	2.683360	776.464021	-0.286538
136.565121	-10.287742	-2091.883	
1.00000	2.683360	830.596294	-0.286538
143.957612	-9.932573	-3087.874	

ELEM 72 ========== LENGTH = 4.958160

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.574560	386.303250	-0.012887
22.594705	-10.336800	-1202.727	
0.25000	0.574560	414.354197	-0.012887
22.594705	-10.320825	-1698.863	
0.50000	0.574560	443.255779	-0.012887
22.594705	-10.304851	-2230.296	
0.75000	0.574560	473.007995	-0.012887
22.594705	-10.288876	-2798.081	
1.00000	0.574560	503.610845	-0.012887
22.594705	-10.272902	-3403.272	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.651048	884.510265	0.309512
94.039284	-19.050930	-3087.906	
0.25000	2.651048	938.643460	0.309512
101.431901	-19.434583	-4217.842	
0.50000	2.651048	992.776654	0.309512
108.824518	-19.818235	-5414.878	
0.75000	2.651048	1046.910	0.309512
116.217135	-20.201888	-6679.015	
1.00000	2.651048	1101.043	0.309512
123.609752	-20.585540	-8010.252	

ELEM 73 ========== LENGTH = 3.470681

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.549327	545.701296	-4.659740
12.846196	-12.664126	-3403.223	
0.25000	0.549327	567.732743	-4.659740
12.846196	-8.621008	-3886.225	
0.50000	0.549327	590.388046	-4.659740
12.846196	-4.577891	-4388.613	
0.75000	0.549327	613.667203	-4.659740
12.846196	-0.534774	-4910.929	
1.00000	0.549327	637.570216	-4.659740
12.846196	3.508344	-5453.715	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.632717	1188.056	-0.027707
27.817078	-25.220326	-8010.372	
0.25000	2.632717	1225.948	-0.027707
32.991863	-25.196285	-9057.651	
0.50000	2.632717	1263.841	-0.027707
38.166648	-25.172244	-10137.810	
0.75000	2.632717	1301.734	-0.027707
43.341433	-25.148204	-11250.846	
1.00000	2.632717	1339.627	-0.027707
48.516218	-25.124163	-12396.761	

ELEM 74 ========== LENGTH = 3.470356

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.418355	-641.418357	4.433195
-15.985452	3.781407	-5453.894	
0.25000	0.418355	-617.517582	4.433195
-15.985452	-0.064784	-4907.820	
0.50000	0.418355	-594.240604	4.433195
-15.985452	-3.910975	-4382.211	
0.75000	0.418355	-571.587422	4.433195
-15.985452	-7.757166	-3876.526	
1.00000	0.418355	-549.558036	4.433195
-15.985452	-11.603357	-3390.225	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.885485	-1369.489	-0.442357
-62.718083	-23.771019	-12396.556	
0.25000	2.885485	-1331.599	-0.442357
-57.543782	-23.387235	-11224.839	
0.50000	2.885485	-1293.710	-0.442357
-52.369481	-23.003452	-10085.994	
0.75000	2.885485	-1255.820	-0.442357
-47.195181	-22.619668	-8980.022	
1.00000	2.885485	-1217.931	-0.442357
-42.020880	-22.235884	-7906.922	

ELEM 75 ========== LENGTH = 4.957381

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.428419	-507.269779	-0.200334
-25.160235	-8.684925	-3390.327	
0.25000	0.428419	-476.571740	-0.200334
-25.160235	-8.436642	-2780.693	
0.50000	0.428419	-446.924202	-0.200334
-25.160235	-8.188360	-2208.454	
0.75000	0.428419	-418.027164	-0.200334
-25.160235	-7.940077	-1672.555	
1.00000	0.428419	-389.980627	-0.200334
-25.160235	-7.691795	-1171.942	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.885095	-1130.558	-0.727627
-136.307191	-15.023333	-7906.983	
0.25000	2.885095	-1076.433	-0.727627
-128.915736	-14.121552	-6539.371	
0.50000	2.885095	-1022.308	-0.727627
-121.524282	-13.219771	-5238.839	
0.75000	2.885095	-968.183547	-0.727627
-114.132827	-12.317990	-4005.486	
1.00000	2.885095	-914.058863	-0.727627
-106.741372	-11.416209	-2839.012	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 76 ========== LENGTH = 4.957854

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.433477	-364.936146	-0.532158
-27.734366	-2.997607	-1172.086	
0.25000	0.433477	-337.595752	-0.532158
-27.734366	-2.338016	-736.763196	
0.50000	0.433477	-310.822413	-0.532158
-27.734366	-1.678425	-334.976469	
0.75000	0.433477	-284.616128	-0.532158
-27.734366	-1.018835	33.917105	
1.00000	0.433477	-258.976898	-0.532158
-27.734366	-0.359244	370.800369	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.905099	-860.054291	-0.191021
-157.197836	0.128689	-2839.027	
0.25000	2.905099	-805.924445	-0.191021
-149.805677	0.365452	-1806.567	
0.50000	2.905099	-751.794598	-0.191021
-142.413517	0.602216	-841.139232	
0.75000	2.905099	-697.664752	-0.191021
-135.021357	0.838980	57.076688	
1.00000	2.905099	-643.534906	-0.191021
-127.629197	1.075743	888.260643	

ELEM 77 ========== LENGTH = 4.958453

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.436648	-243.442789	-0.095269
-22.444939	4.705123	370.622085	
0.25000	0.436648	-218.792926	-0.095269
-22.444939	4.823220	656.972363	
0.50000	0.436648	-195.560871	-0.095269
-22.444939	4.941317	913.645114	
0.75000	0.436648	-173.746623	-0.095269
-22.444939	5.059415	1142.398	
1.00000	0.436648	-153.350183	-0.095269
-22.444939	5.177512	1344.988	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.938979	-610.837650	0.085868
-130.950703	13.671139	888.158107	
0.25000	2.938979	-556.701264	0.085868
-123.557650	13.564696	1611.806	
0.50000	2.938979	-502.564878	0.085868
-116.164597	13.458254	2268.347	
0.75000	2.938979	-448.428493	0.085868
-108.771544	13.351811	2857.778	
1.00000	2.938979	-394.292105	0.085868
-101.378491	13.245368	3380.102	

ELEM 78 ========== LENGTH = 4.958178

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.437611	-141.122284	-0.024345
-12.423372	9.129235	1344.838	
0.25000	0.437611	-121.435839	-0.024345
-12.423372	9.159412	1507.565	
0.50000	0.437611	-101.749393	-0.024345
-12.423372	9.189589	1645.889	
0.75000	0.437611	-82.062948	-0.024345
-12.423372	9.219766	1759.810	
1.00000	0.437611	-62.376503	-0.024345
-12.423372	9.249943	1849.330	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.973805	-369.158389	-0.044146
-77.445356	23.107257	3379.960	
0.25000	2.973805	-315.025003	-0.044146
-70.052713	23.161978	3803.998	
0.50000	2.973805	-260.891616	-0.044146
-62.660070	23.216698	4160.935	
0.75000	2.973805	-206.758230	-0.044146
-55.267427	23.271418	4450.771	
1.00000	2.973805	-152.624844	-0.044146
-47.874783	23.326139	4673.507	

ELEM 79 ========== LENGTH = 4.957033

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.436865	-49.529087	-0.162636
-1.105635	10.874297	1849.265	
0.25000	0.436865	-29.847189	-0.162636
-1.105635	11.075846	1898.449	
0.50000	0.436865	-10.165291	-0.162636
-1.105635	11.277394	1923.242	
0.75000	0.436865	9.516607	-0.162636
-1.105635	11.478943	1923.644	
1.00000	0.436865	29.198506	-0.162636
-1.105635	11.680491	1899.655	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.009988	-126.235935	-0.347224
-16.969503	27.315323	4673.425	
0.25000	3.009988	-72.115052	-0.347224
-9.578567	27.745623	4796.329	
0.50000	3.009988	-17.994169	-0.347224
-2.187632	28.175924	4852.163	
0.75000	3.009988	36.126714	-0.347224
5.203304	28.606224	4840.927	
1.00000	3.009988	90.247596	-0.347224
12.594240	29.036525	4762.622	

ELEM 80 ========== LENGTH = 4.958005

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.433148	42.033784	-0.308561
10.817573	10.573046	1899.693	
0.25000	0.433148	61.715942	-0.308561
10.817573	10.955508	1835.392	
0.50000	0.433148	81.405301	-0.308561
10.817573	11.337970	1746.690	
0.75000	0.433148	101.091059	-0.308561
10.817573	11.720431	1633.588	
1.00000	0.433148	120.776818	-0.308561
10.817573	12.102893	1496.085	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.044468	116.596917	-0.667535
44.848688	26.139630	4762.647	
0.25000	3.044468	170.728414	-0.667535
52.241073	26.967041	4584.577	
0.50000	3.044468	224.859912	-0.667535
59.633458	27.794451	4339.411	
0.75000	3.044468	278.991410	-0.667535
67.025844	28.621861	4027.149	
1.00000	3.044468	333.122908	-0.667535
74.418229	29.449271	3647.791	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 81 ========== LENGTH = 4.958103

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.427190	132.882992	-0.238502
21.596175	8.568233	1496.212	
0.25000	0.427190	153.277995	-0.238502
21.596175	8.863863	1319.007	
0.50000	0.427190	175.090706	-0.238502
21.596175	9.159493	1115.643	
0.75000	0.427190	198.321124	-0.238502
21.596175	9.455122	884.362296	
1.00000	0.427190	222.969250	-0.238502
21.596175	9.750752	623.408589	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.079629	358.051587	-0.790857
99.774320	20.526005	3647.884	
0.25000	3.079629	412.184158	-0.790857
107.166852	21.506293	3170.520	
0.50000	3.079629	466.316730	-0.790857
114.559384	22.486581	2626.058	
0.75000	3.079629	520.449301	-0.790857
121.951916	23.466869	2014.497	
1.00000	3.079629	574.581873	-0.790857
129.344448	24.447157	1335.837	

ELEM 82 ========== LENGTH = 4.958328

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.420404	238.535495	0.200756
28.157070	4.948530	623.570208	
0.25000	0.420404	264.177176	0.200756
28.157070	4.699677	312.052023	
0.50000	0.420404	290.385966	0.200756
28.157070	4.450823	-31.602615	
0.75000	0.420404	317.161865	0.200756
28.157070	4.201970	-408.096685	
1.00000	0.420404	344.504873	0.200756
28.157070	3.953116	-818.133163	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.120303	607.325014	-0.491843
128.462775	12.562210	1335.903	
0.25000	3.120303	661.460035	-0.491843
135.855641	13.171890	549.521319	
0.50000	3.120303	715.595057	-0.491843
143.248508	13.781569	-303.964972	
0.75000	3.120303	769.730078	-0.491843
150.641374	14.391248	-1224.556	
1.00000	3.120303	823.865099	-0.491843
158.034241	15.000927	-2212.252	

ELEM 83 ========== LENGTH = 4.957662

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.412348	369.439394	-0.151460
27.654179	-0.668328	-817.995273	
0.25000	0.412348	397.487520	-0.151460
27.654179	-0.480606	-1293.178	
0.50000	0.412348	426.386195	-0.151460
27.654179	-0.292885	-1803.651	
0.75000	0.412348	456.135419	-0.151460
27.654179	-0.105163	-2350.469	
1.00000	0.412348	486.735192	-0.151460
27.654179	0.082558	-2934.685	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.177108	877.661941	-0.006603
111.844044	3.885301	-2212.254	
0.25000	3.177108	931.789692	-0.006603
119.235918	3.893485	-3333.585	
0.50000	3.177108	985.917443	-0.006603
126.627792	3.901669	-4522.003	
0.75000	3.177108	1040.045	-0.006603
134.019665	3.909853	-5777.508	
1.00000	3.177108	1094.173	-0.006603
141.411539	3.918037	-7100.099	

ELEM 84 ========== LENGTH = 3.470747

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.393367	528.901441	-4.914691
20.663624	-2.980625	-2934.606	
0.25000	0.393367	550.933309	-4.914691
20.663624	1.283787	-3403.040	
0.50000	0.393367	573.589043	-4.914691
20.663624	5.548200	-3890.861	
0.75000	0.393367	596.868644	-4.914691
20.663624	9.812612	-4398.611	
1.00000	0.393367	620.772112	-4.914691
20.663624	14.077024	-4926.832	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.249357	1181.288	-0.743394
51.633741	-3.157269	-7100.118	
0.25000	3.249357	1219.182	-0.743394
56.808624	-2.512236	-8141.546	
0.50000	3.249357	1257.075	-0.743394
61.983508	-1.867203	-9215.854	
0.75000	3.249357	1294.969	-0.743394
67.158392	-1.222170	-10323.041	
1.00000	3.249357	1332.863	-0.743394
72.333275	-0.577137	-11463.109	

ELEM 85 ========== LENGTH = 3.470017

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.867522	-595.310290	5.348717
-8.891420	13.479288	-4926.264	
0.25000	0.867522	-571.411850	5.348717
-8.891420	8.839254	-4420.241	
0.50000	0.867522	-548.137145	5.348717
-8.891420	4.199219	-3934.820	
0.75000	0.867522	-525.486177	5.348717
-8.891420	-0.440815	-3469.038	
1.00000	0.867522	-503.458943	5.348717
-8.891420	-5.080850	-3022.776	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.464043	-1268.813	1.836890
-41.564047	-2.019734	-11462.962	
0.25000	3.464043	-1230.927	1.836890
-36.390252	-3.613243	-10378.695	
0.50000	3.464043	-1193.042	1.836890
-31.216456	-5.206753	-9327.293	
0.75000	3.464043	-1155.156	1.836890
-26.042661	-6.800262	-8308.758	
1.00000	3.464043	-1117.270	1.836890
-20.868866	-8.393772	-7323.088	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 86 ========== LENGTH = 4.958005

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.883395	-461.361256	0.574009
-16.604400	-3.150124	-3022.840	
0.25000	0.883395	-430.759362	0.574009
-16.604400	-3.861609	-2470.036	
0.50000	0.883395	-401.060706	0.574009
-16.604400	-4.573094	-1954.635	
0.75000	0.883395	-372.107399	0.574009
-16.604400	-5.284579	-1475.584	
1.00000	0.883395	-344.057328	0.574009
-16.604400	-5.996064	-1031.829	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.559814	-1030.239	1.073635
-112.448130	-4.048049	-7323.041	
0.25000	3.559814	-976.107813	1.073635
-105.055744	-5.378821	-6079.606	
0.50000	3.559814	-921.976311	1.073635
-97.663358	-6.709592	-4903.267	
0.75000	3.559814	-867.844808	1.073635
-90.270972	-8.040364	-3794.024	
1.00000	3.559814	-813.713306	1.073635
-82.878586	-9.371136	-2751.878	

ELEM 87 ========== LENGTH = 4.957746

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.890870	-319.112034	0.243850
-18.515435	-2.394248	-1031.960	
0.25000	0.890870	-291.772231	0.243850
-18.515435	-2.696485	-653.442256	
0.50000	0.890870	-264.999470	0.243850
-18.515435	-2.998722	-308.459207	
0.75000	0.890870	-238.793752	0.243850
-18.515435	-3.300959	3.692108	
1.00000	0.890870	-213.155076	0.243850
-18.515435	-3.603196	283.714504	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.661823	-759.814851	1.613190
-132.515641	-0.703273	-2751.881	
0.25000	3.661823	-705.686175	1.613190
-125.123641	-2.702720	-1843.683	
0.50000	3.661823	-651.557499	1.613190
-117.731641	-4.702166	-1002.574	
0.75000	3.661823	-597.428823	1.613190
-110.339641	-6.701613	-228.554374	
1.00000	3.661823	-543.300148	1.613190
-102.947641	-8.701060	478.376253	

ELEM 88 ========== LENGTH = 4.958680

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.898519	-197.819946	0.683254
-13.807465	0.308034	283.563078	
0.25000	0.898519	-173.168953	0.683254
-13.807465	-0.538975	513.368502	
0.50000	0.898519	-149.335834	0.683254
-13.807465	-1.385984	713.493677	
0.75000	0.898519	-128.120586	0.683254
-13.807465	-2.232993	885.696299	
1.00000	0.898519	-107.723212	0.683254
-13.807465	-3.080002	1031.734	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 52

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.781926	-511.115854	1.912960
-108.464176	1.068405	478.345759	
0.25000	3.781926	-456.976987	1.912960
-101.070785	-1.303034	1078.404	
0.50000	3.781926	-402.838121	1.912960
-93.677393	-3.674474	1611.347	
0.75000	3.781926	-348.699254	1.912960
-86.284001	-6.045913	2077.176	
1.00000	3.781926	-294.560387	1.912960
-78.890610	-8.417353	2475.891	

ELEM 89 ========== LENGTH = 4.957664

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.905438	-95.445412	0.768447
-5.371542	-0.158376	1031.608	
0.25000	0.905438	-75.761007	0.768447
-5.371542	-1.119802	1137.176	
0.50000	0.905438	-56.076601	0.768447
-5.371542	-2.063228	1219.407	
0.75000	0.905438	-36.392196	0.768447
-5.371542	-3.015653	1276.711	
1.00000	0.905438	-16.707790	0.768447
-5.371542	-3.968079	1309.617	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.905613	-269.206562	1.829621
-59.377331	0.197282	2475.778	
0.25000	3.905613	-215.078785	1.829621
-51.985454	-3.164944	2775.893	
0.50000	3.905613	-160.951007	1.829621
-44.593576	-5.432606	3008.922	
0.75000	3.905613	-106.823230	1.829621
-37.201699	-7.700268	3174.864	
1.00000	3.905613	-52.695453	1.829621
-29.809822	-9.967930	3273.719	

ELEM 90 ========== LENGTH = 4.957812

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.914032	-3.882692	0.622757
4.252243	-3.002731	1309.566	
0.25000	0.914032	15.802303	0.622757
4.252243	-3.774610	1302.179	
0.50000	0.914032	35.487297	0.622757
4.252243	-4.546488	1270.393	
0.75000	0.914032	55.172291	0.622757
4.252243	-5.318367	1214.209	
1.00000	0.914032	74.857285	0.622757
4.252243	-6.090245	1133.626	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	4.038315	-26.376003	1.517371
-3.263975	-7.270275	3273.644	
0.25000	4.038315	27.753293	1.517371
4.128123	-9.150985	3227.790	
0.50000	4.038315	81.882789	1.517371
11.520221	-11.031695	3204.846	
0.75000	4.038315	136.012185	1.517371
18.912319	-12.912406	3069.811	
1.00000	4.038315	190.141581	1.517371
26.304418	-14.793116	2867.685	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 53

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 91 ========== LENGTH = 4.958087

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.922789	87.671071	0.498018
13.172218	-7.244922	1133.651	
0.25000	0.922789	107.357165	0.498018
13.172218	-7.862226	1012.780	
0.50000	0.922789	127.043240	0.498018
13.172218	-8.479531	867.508222	
0.75000	0.922789	146.729324	0.498018
13.172218	-9.096835	697.834701	
1.00000	0.922789	166.415408	0.498018
13.172218	-9.714139	503.759851	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	4.175996	216.427701	1.256295
51.114326	-17.159279	1367.646	
0.25000	4.175996	270.560094	1.256295
58.506833	-18.976484	2565.830	
0.50000	4.175996	324.692487	1.256295
65.899341	-20.533689	2196.915	
0.75000	4.175996	378.824880	1.256295
73.291848	-22.090894	1760.903	
1.00000	4.175996	432.957273	1.256295
80.684356	-23.648099	1257.792	

ELEM 92 ========== LENGTH = 4.957431

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.934518	179.174292	0.818531
19.927887	-12.439490	503.843260	
0.25000	0.934518	199.566529	0.818531
19.927887	-13.453942	269.291975	
0.50000	0.934518	221.376282	0.818531
19.927887	-14.468395	8.589009	
0.75000	0.934518	244.603551	0.818531
19.927887	-15.482847	-280.022448	
1.00000	0.934518	269.248334	0.818531
19.927887	-16.497300	-598.299205	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	4.325787	459.418770	1.696213
95.880354	-30.217631	1257.758	
0.25000	4.325787	513.544002	1.696213
103.271884	-32.319847	654.833320	
0.50000	4.325787	567.669233	1.696213
110.663413	-34.422062	-15.171680	
0.75000	4.325787	621.794465	1.696213
118.054943	-36.524277	-752.257204	
1.00000	4.325787	675.919696	1.696213
125.446473	-38.626493	-1556.423	

ELEM 93 ========== LENGTH = 4.958017

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.945934	284.320748	1.909747
21.699133	-19.606637	-598.221911	
0.25000	0.945934	309.960821	1.909747
21.699133	-21.973777	-966.470575	
0.50000	0.945934	336.167967	1.909747
21.699133	-24.340917	-1366.852	
0.75000	0.945934	362.942187	1.909747
21.699133	-26.708057	-1800.068	
1.00000	0.945934	390.283479	1.909747
21.699133	-29.075197	-2266.823	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 54

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	4.481346	707.434728	3.391520
111.443014	-46.065268	-1556.598	
0.25000	4.481346	761.566354	3.391520
118.835417	-50.269071	-2467.015	
0.50000	4.481346	815.697979	3.391520
126.227819	-54.472874	-3444.527	
0.75000	4.481346	869.829605	3.391520
133.620222	-58.676678	-4489.137	
1.00000	4.481346	923.961231	3.391520
141.012625	-62.880481	-5600.842	

ELEM 94 ========== LENGTH = 4.957604

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.950986	415.160869	0.816049
16.259688	-31.239202	-2266.785	
0.25000	0.950986	443.208668	0.816049
16.259688	-32.250613	-2798.629	
0.50000	0.950986	472.107007	0.816049
16.259688	-33.262025	-3365.763	
0.75000	0.950986	501.855884	0.816049
16.259688	-34.273437	-3969.240	
1.00000	0.950986	532.455300	0.816049
16.259688	-35.284849	-4610.116	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	4.640362	978.175841	2.097392
78.413322	-67.769204	-5601.082	
0.25000	4.640362	1032.303	2.097392
85.805110	-70.368713	-6846.977	
0.50000	4.640362	1086.430	2.097392
93.196897	-72.968222	-8159.956	
0.75000	4.640362	1140.557	2.097392
100.588685	-75.567732	-9540.022	
1.00000	4.640362	1194.684	2.097392
107.980472	-78.167241	-10987.172	

ELEM 95 ========== LENGTH = 3.471159

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.928351	573.413729	-12.177886
6.423294	-34.939624	-4610.169	
0.25000	0.928351	595.448215	-12.177886
6.423294	-24.371778	-5117.287	
0.50000	0.928351	618.106642	-12.177886
6.423294	-13.803932	-5643.797	
0.75000	0.928351	641.389011	-12.177886
6.423294	-3.236087	-6190.241	
1.00000	0.928351	665.295320	-12.177886
6.423294	7.331759	-6757.159	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	4.781436	1278.010	-16.757940
0.492595	-76.775762	-10987.477	
0.25000	4.781436	1315.909	-16.757940
5.668094	-62.233392	-12112.965	
0.50000	4.781436	1353.807	-16.757940
10.843593	-47.691021	-13271.341	
0.75000	4.781436	1391.705	-16.757940
16.019091	-33.148650	-14462.605	
1.00000	4.781436	1429.603	-16.757940
21.194590	-18.606279	-15686.756	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 55

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 96 ========== LENGTH = 4.957662

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.174627	-738.150256	8.684947
-54.287295	11.012331	-6754.587	
0.25000	3.174627	-704.289737	8.684947
-54.287295	0.248074	-5860.846	
0.50000	3.174627	-671.887389	8.684947
-54.287295	-10.516183	-5008.169	
0.75000	3.174627	-640.943214	8.684947
-54.287295	-21.280440	-4194.749	
1.00000	3.174627	-611.457210	8.684947
-54.287295	-32.044697	-3418.777	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	8.126231	-1617.457	11.737310
-182.740288	-9.568417	-15683.125	
0.25000	8.126231	-1563.329	11.737310
-175.348415	-24.115820	-13711.967	
0.50000	8.126231	-1509.201	11.737310
-167.956541	-38.663224	-11807.896	
0.75000	8.126231	-1455.074	11.737310
-160.564667	-53.210628	-9970.912	
1.00000	8.126231	-1400.946	11.737310
-153.172794	-67.758032	-8201.015	

ELEM 97 ========== LENGTH = 4.957571

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.232985	-572.260478	-1.515877
-59.965375	-24.384906	-3418.959	
0.25000	3.232985	-543.929356	-1.515877
-59.965375	-22.506140	-2727.348	
0.50000	3.232985	-516.448768	-1.515877
-59.965375	-20.627373	-2070.324	
0.75000	3.232985	-489.818713	-1.515877
-59.965375	-18.748607	-1446.831	
1.00000	3.232985	-464.039191	-1.515877
-59.965375	-16.869840	-855.816723	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	8.376080	-1315.370	-2.919153
-244.581320	-49.669580	-8201.145	
0.25000	8.376080	-1261.243	-2.919153
-237.189583	-46.051603	-6604.428	
0.50000	8.376080	-1207.116	-2.919153
-229.797845	-42.433627	-5074.795	
0.75000	8.376080	-1152.990	-2.919153
-222.406107	-38.815651	-3612.246	
1.00000	8.376080	-1098.863	-2.919153
-215.014369	-35.197674	-2216.781	

ELEM 98 ========== LENGTH = 4.958766

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.264989	-442.834260	-1.732304
-57.256705	-7.503843	-856.069418	
0.25000	3.264989	-417.757470	-1.732304
-57.256705	-5.356321	-322.693875	
0.50000	3.264989	-393.247839	-1.732304
-57.256705	-3.208799	179.945735	
0.75000	3.264989	-369.305367	-1.732304
-57.256705	-1.061277	652.552515	
1.00000	3.264989	-345.930054	-1.732304
-57.256705	1.086245	1095.830	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 56

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	8.606520	-1054.128	-3.061650
-246.406709	-12.709804	-2216.912	
0.25000	8.606520	-999.988309	-3.061650
-239.013189	-8.914303	-943.676265	
0.50000	8.606520	-945.848501	-3.061650
-231.619668	-5.118802	262.442430	
0.75000	8.606520	-891.708693	-3.061650
-224.226148	-1.323301	1401.444	
1.00000	8.606520	-837.568885	-3.061650
-216.832628	2.472201	2473.330	

ELEM 99 ========== LENGTH = 4.957922

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.293768	-332.002192	-0.764369
-47.681632	10.156478	1095.543	
0.25000	3.293768	-309.056153	-0.764369
-47.681632	11.103899	1492.803	
0.50000	3.293768	-286.393645	-0.764369
-47.681632	12.051319	1861.798	
0.75000	3.293768	-264.014668	-0.764369
-47.681632	12.998739	2202.879	
1.00000	3.293768	-241.919222	-0.764369
-47.681632	13.946160	2516.398	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	8.839263	-808.461496	-1.609339
-207.558156	24.535763	2473.040	
0.25000	8.839263	-754.330900	-1.609339
-200.165894	26.530507	3441.566	
0.50000	8.839263	-700.200303	-1.609339
-192.773632	28.525252	4342.997	
0.75000	8.839263	-646.069707	-1.609339
-185.381370	30.519996	5177.335	
1.00000	8.839263	-591.939111	-1.609339
-177.989107	32.514740	5944.579	

ELEM 100 ========== LENGTH = 4.957293

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.327484	-229.326979	-0.637759
-32.149095	20.854836	2516.189	
0.25000	3.327484	-207.376084	-0.637759
-32.149095	21.645225	2786.797	
0.50000	3.327484	-185.425190	-0.637759
-32.149095	22.435615	3030.201	
0.75000	3.327484	-163.474296	-0.637759
-32.149095	23.226004	3246.401	
1.00000	3.327484	-141.523401	-0.637759
-32.149095	24.016394	3435.396	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	9.083706	-565.989373	-1.528324
-142.598070	49.546345	5944.375	
0.25000	9.083706	-511.865646	-1.528324
-135.206745	51.440432	6612.280	
0.50000	9.083706	-457.741919	-1.528324
-127.815421	53.334519	7213.109	
0.75000	9.083706	-403.618191	-1.528324
-120.424097	55.228606	7746.861	
1.00000	9.083706	-349.494464	-1.528324
-113.032773	57.122693	8213.536	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 57

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 101 ========== LENGTH = 4.957685

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.364783	-128.381006	-0.802213
-12.431431	27.361734	3435.304	
0.25000	3.364783	-106.428377	-0.802213
-12.431431	28.356014	3580.818	
0.50000	3.364783	-84.475748	-0.802213
-12.431431	29.350294	3699.123	
0.75000	3.364783	-62.523119	-0.802213
-12.431431	30.344574	3790.220	
1.00000	3.364783	-40.570490	-0.802213
-12.431431	31.338854	3854.108	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	9.335695	-322.246102	-1.856658
-60.700105	65.667424	8213.445	
0.25000	9.335695	-268.118098	-1.856658
-53.308197	67.968606	8579.300	
0.50000	9.335695	-213.990094	-1.856658
-45.916289	70.269787	8878.067	
0.75000	9.335695	-159.862090	-1.856658
-38.524381	72.570969	9109.747	
1.00000	9.335695	-105.734086	-1.856658
-31.132472	74.872150	9274.340	

ELEM 102 ========== LENGTH = 4.958300

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.399865	-27.451665	-0.899786
10.474045	30.347841	3854.168	
0.25000	3.399865	-5.496312	-0.899786
10.474045	31.463194	3874.589	
0.50000	3.399865	16.459041	-0.899786
10.474045	32.578546	3867.794	
0.75000	3.399865	38.414395	-0.899786
10.474045	33.693898	3833.784	
1.00000	3.399865	60.369748	-0.899786
10.474045	34.809250	3772.559	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	9.580393	-78.527620	-1.997340
31.959797	72.997421	9274.446	
0.25000	9.580393	-24.392899	-1.997340
39.352622	75.473274	9338.234	
0.50000	9.580393	29.741823	-1.997340
46.745448	77.949127	9334.919	
0.75000	9.580393	83.876545	-1.997340
54.138273	80.424980	9264.500	
1.00000	9.580393	138.011267	-1.997340
61.531099	82.900833	9126.977	

ELEM 103 ========== LENGTH = 4.958049

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.427053	72.691157	-1.347678
32.864056	29.325972	3772.778	
0.25000	3.427053	94.645395	-1.347678
32.864056	30.996435	3669.070	
0.50000	3.427053	116.599634	-1.347678
32.864056	32.666898	3538.150	
0.75000	3.427053	138.553873	-1.347678
32.864056	34.337361	3380.017	
1.00000	3.427053	160.508112	-1.347678
32.864056	36.007823	3194.672	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 58

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	9.801937	163.610930	-3.242954
123.548344	70.150657	9127.274	
0.25000	9.801937	217.742904	-3.242954
130.940794	74.170338	8890.927	
0.50000	9.801937	271.874877	-3.242954
138.333244	78.190019	8587.484	
0.75000	9.801937	326.006851	-3.242954
145.725695	82.209701	8216.943	
1.00000	9.801937	380.138825	-3.242954
153.118145	86.229382	7779.305	

ELEM 104 ========== LENGTH = 4.957925

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.441233	172.746328	-3.472011
49.457765	26.445506	3195.036	
0.25000	3.441233	194.416487	-3.472011
49.457765	30.748998	2967.432	
0.50000	3.441233	215.519583	-3.472011
49.457765	35.052491	2713.319	
0.75000	3.441233	236.055617	-3.472011
49.457765	39.355984	2433.401	
1.00000	3.441233	256.024588	-3.472011
49.457765	43.659476	2128.381	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	9.986218	405.506352	-9.455623
194.965937	63.529097	7779.783	
0.25000	9.986218	459.636973	-9.455623
202.358202	75.249164	7243.618	
0.50000	9.986218	513.767595	-9.455623
209.750468	86.969231	6640.360	
0.75000	9.986218	567.898216	-9.455623
217.142734	98.689298	5970.008	
1.00000	9.986218	622.028838	-9.455623
224.534999	110.409365	5232.562	

ELEM 105 ========== LENGTH = 4.957807

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	3.466565	271.074948	-5.607560
51.633002	31.258351	2128.879	
0.25000	3.466565	290.678891	-5.607560
51.633002	38.208651	1780.729	
0.50000	3.466565	310.120777	-5.607560
51.633002	45.158951	1408.381	
0.75000	3.466565	329.400608	-5.607560
51.633002	52.109251	1012.037	
1.00000	3.466565	348.518372	-5.607560
51.633002	59.059551	591.896117	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	10.198101	653.738283	-15.161262
214.395362	80.780362	5233.273	
0.25000	10.198101	707.867619	-15.161262
221.787453	99.572014	4389.450	
0.50000	10.198101	761.996956	-15.161262
229.179543	118.363667	3478.537	
0.75000	10.198101	816.126293	-15.161262
236.571633	137.155320	2500.533	
1.00000	10.198101	870.255629	-15.161262
243.963723	155.946972	1455.439	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 59

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 106 ========== LENGTH = 1.487549

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3

```
        T           M2          M3
 0.00000    3.530120  384.964354    18.122393
19.825947   42.146545  592.774053
 0.25000    3.530120  390.676169    18.122393
19.825947   35.407056  448.548676
 0.50000    3.530120  396.387984    18.122393
19.825947   28.667574  302.199148
 0.75000    3.530120  402.099799    18.122393
19.825947   21.928089  153.725470
 1.00000    3.530120  407.811614    18.122393
19.825947   15.188603    3.127640

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.565672  940.289407   53.503094
113.754552 115.667174  1457.206
 0.25000   10.565672  956.530464   53.503094
115.972488  95.770060  1104.505
 0.50000   10.565672  972.771520   53.503094
118.190423  75.872946  745.763428
 0.75000   10.565672  989.012576   53.503094
120.408358  55.975832  380.982267
 1.00000   10.565672 1005.254     53.503094
122.626293  36.078718   10.161265

 ELEM       107 ================== LENGTH
=     4.434986

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    1.474208 -308.933281    -1.284303
-71.679434   3.765606   -0.062022
 0.25000    1.474208 -291.831558    -1.284303
-71.679434   5.189573  332.999364
 0.50000    1.474208 -274.582656    -1.284303
-71.679434   6.613539  647.018906
 0.75000    1.474208 -257.193205    -1.284303
-71.679434   8.037505  941.835868
 1.00000    1.474208 -239.656575    -1.284303
-71.679434   9.461471 1217.290

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.577229 -766.302895    -3.546917
-239.278290   9.135317   -0.000952
 0.25000    3.577229 -717.727597    -3.546917
-233.381975  13.067949  822.705943
 0.50000    3.577229 -669.152299    -3.546917
-227.485661  17.000582  1591.555
 0.75000    3.577229 -620.577001    -3.546917
-221.589346  20.933215  2306.547
 1.00000    3.577229 -572.001703    -3.546917
-215.693032  24.865847  2967.680

 ELEM       108 ================== LENGTH
=     4.927966

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.189900 -233.935158     0.196282
-70.256842  13.583772  1217.375
 0.25000    3.189900 -214.086853     0.196282
-70.256842  13.341954  1493.413
 0.50000    3.189900 -193.674911     0.196282
-70.256842  13.100137  1744.650
 0.75000    3.189900 -172.699333     0.196282
-70.256842  12.858319  1970.393
 1.00000    3.189900 -151.160120     0.196282
-70.256842  12.616501  2169.947
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      60

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.732039 -569.394036     0.821258
-232.852937  34.849666  2968.131
 0.25000    7.732039 -515.419251     0.821258
-226.301206  33.837883  3636.371
 0.50000    7.732039 -461.444486     0.821258
-219.749476  32.826100  4238.115
 0.75000    7.732039 -407.469711     0.821258
-213.197746  31.814317  4773.363
 1.00000    7.732039 -353.494935     0.821258
-206.646016  30.802534  5242.114

 ELEM       109 ================== LENGTH
=     4.928916

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.401887 -136.907065     0.797650
-41.824126  15.543715  2170.073
 0.25000    4.401887 -115.081826     0.797650
-41.824126  14.560828  2325.327
 0.50000    4.401887  -93.256588     0.797650
-41.824126  13.577940  2453.687
 0.75000    4.401887  -71.431350     0.797650
-41.824126  12.595052  2555.154
 1.00000    4.401887  -49.606112     0.797650
-41.824126  11.612165  2629.727

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.669460 -327.423729     2.466569
-147.165269  37.893615  5242.638
 0.25000   10.669460 -273.438549     2.466569
-140.612276  34.854237  5612.838
 0.50000   10.669460 -219.453369     2.466569
-134.059283  31.814859  5916.516
 0.75000   10.669460 -165.468188     2.466569
-127.506289  28.775481  6153.671
 1.00000   10.669460 -111.483008     2.466569
-120.953296  25.736103  6324.305

 ELEM       110 ================== LENGTH
=     4.928344

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    5.006180  -34.370596     0.612777
-11.787993  13.065912  2629.764
 0.25000    5.006180  -12.547891     0.612777
-11.787993  12.310918  2658.668
 0.50000    5.006180    9.274814     0.612777
-11.787993  11.555924  2660.684
 0.75000    5.006180   31.097520     0.612777
-11.787993  10.800930  2635.813
 1.00000    5.006180   52.920225     0.612777
-11.787993  10.045936  2584.055

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   12.138226  -81.262399     1.662731
-51.281332  29.266417  6324.495
 0.25000   12.138226  -27.283485     1.662731
-44.729099  27.217789  6391.364
 0.50000   12.138226   26.695430     1.662731
-38.176866  25.169162  6391.726
 0.75000   12.138226   80.674345     1.662731
-31.624633  23.120534  6325.581
 1.00000   12.138226  134.653259     1.662731
-25.072401  21.071906  6192.930
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      61

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       111 ================== LENGTH
=     4.927671

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.930563   67.713079     0.498063
16.999744   9.856163  2584.049
 0.25000    4.930563   89.532808     0.498063
16.999744   9.242591  2487.192
 0.50000    4.930563  111.352536     0.498063
16.999744   8.629018  2363.455
 0.75000    4.930563  133.172265     0.498063
16.999744   8.015445  2212.838
 1.00000    4.930563  154.991994     0.498063
16.999744   7.401872  2035.341

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   11.958601  163.811897     0.950574
41.739242  20.621717  6192.907
 0.25000   11.958601  217.783449     0.950574
48.290581  19.450688  5957.860
 0.50000   11.958601  271.755002     0.950574
54.841921  18.279659  5656.324
 0.75000   11.958601  325.726554     0.950574
61.393260  17.108631  5288.300
 1.00000   11.958601  379.698106     0.950574
67.944599  15.937602  4853.787

 ELEM       112 ================== LENGTH
=     4.928122

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.243479  169.502356     0.570856
42.594349   5.733133  2035.290
 0.25000    4.243479  191.464993     0.570856
42.594349   5.029822  1812.957
 0.50000    4.243479  213.709457     0.570856
42.594349   4.326510  1563.392
 0.75000    4.243479  236.235748     0.570856
42.594349   3.623198  1286.248
 1.00000    4.243479  259.043866     0.570856
42.594349   2.919886  981.177350

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.301332  407.038003     0.730291
122.601818 13.191781  4853.544
 0.25000   10.301332  461.014490     0.730291
129.243756 11.018072  4318.810
 0.50000   10.301332  514.990977     0.730291
135.795694 10.118331  3717.576
 0.75000   10.301332  568.967463     0.730291
142.347632  9.218590  3049.841
 1.00000   10.301332  622.943950     0.730291
148.899570  8.318849  2315.605

 ELEM       113 ================== LENGTH
=     4.928795

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.155527  273.221320     0.452637
62.839618   0.282039  981.078683
 0.25000    3.155527  296.455351     0.452637
62.839618  -0.275700  630.159143
 0.50000    3.155527  320.253112     0.452637
62.839618  -0.833439  250.263347
 0.75000    3.155527  344.614605     0.452637
62.839618  -1.391178 -159.303334
 1.00000    3.155527  369.539828     0.452637
62.839618  -1.948917 -599.235529
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      62

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.690321  647.350500     0.465073
182.580622  1.994595  2315.173
 0.25000    7.690321  701.334357     0.465073
189.133455  1.421532  1484.250
 0.50000    7.690321  755.318214     0.465073
195.686287  0.848470  586.806834
 0.75000    7.690321  809.302071     0.465073
202.239120  0.275407 -377.154703
 1.00000    7.690321  863.285928     0.465073
208.791953 -0.297655 -1407.635

 ELEM       114 ================== LENGTH
=     4.927594

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    2.005856  380.497155    -0.153455
67.910106  -4.734301 -599.387244
 0.25000    2.005856  406.120799    -0.153455
67.910106  -4.545261 -1083.817
 0.50000    2.005856  432.589834    -0.153455
67.910106  -4.356220 -1600.334
 0.75000    2.005856  459.904259    -0.153455
67.910106  -4.167180 -2149.978
 1.00000    2.005856  488.064074    -0.153455
67.910106  -3.978140 -2733.792

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.949628  876.238167    -0.079481
193.191366 -6.938195  1402.217
 0.25000    4.949628  930.208875    -0.079481
199.742802 -6.838282 -2520.897
 0.50000    4.949628  984.179583    -0.079481
206.294039 -6.740370 -3700.063
 0.75000    4.949628 1038.150      -0.079481
212.845276 -6.642457 -4945.716
 1.00000    4.949628 1092.121      -0.079481
219.396512 -6.544544 -6257.855

 ELEM       115 ================== LENGTH
=     4.928335

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    1.186662  490.330765    -0.340065
37.784305  -5.964979  -2733.953
 0.25000    1.186662  519.642348    -0.340065
37.784305  -5.545991  -3355.989
 0.50000    1.186662  550.403478    -0.340065
37.784305  -5.127002  -4015.034
 0.75000    1.186662  582.614154    -0.340065
37.784305  -4.708013  -4712.871
 1.00000    1.186662  616.274377    -0.340065
37.784305  -4.289024  -5451.288

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    2.980236 1079.688      -0.081247
104.891795 -11.321486  -6258.426
 0.25000    2.980236 1133.666      -0.081247
111.444017 -11.221384  -7621.945
 0.50000    2.980236 1187.645      -0.081247
117.996239 -11.121281  -9051.970
 0.75000    2.980236 1241.624      -0.081247
124.548461 -11.021178 -10548.502
 1.00000    2.980236 1295.603      -0.081247
131.100683 -10.921076 -12111.540
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      63

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       116 ================== LENGTH
=     3.450058

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    1.036911 -588.860929     0.690535
-15.718625  -4.643927  -5451.325
 0.25000    1.036911 -565.099951     0.690535
-15.718625  -5.239524  -4953.716
 0.50000    1.036911 -541.959122     0.690535
-15.718625  -5.835121  -4476.333
 0.75000    1.036911 -519.438440     0.690535
-15.718625  -6.430718  -4018.643
 1.00000    1.036911 -497.537906     0.690535
-15.718625  -7.026314  -3580.109

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    2.512526  -1196.177     0.916019
-56.364657 -12.029860 -12111.687
 0.25000    2.512526  -1158.390     0.916019
-51.777806 -12.819939 -11096.263
 0.50000    2.512526  -1120.602     0.916019
-47.190954 -13.610019 -10113.432
 0.75000    2.512526  -1082.814     0.916019
-42.604103 -14.400098  -9163.193
 1.00000    2.512526  -1045.027     0.916019
-38.017251 -15.190178  -8245.546

 ELEM       117 ================== LENGTH
=     4.928060

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    1.439702 -498.279275     0.720451
-55.073541  -6.068878  -3579.998
 0.25000    1.439702 -467.862207     0.720451
-55.073541  -6.956484  -2984.934
 0.50000    1.439702 -438.290611     0.720451
-55.073541  -7.844090  -2426.824
 0.75000    1.439702 -409.564484     0.720451
-55.073541  -8.731697  -1904.626
 1.00000    1.439702 -381.683828     0.720451
-55.073541  -9.619303  -1417.297

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.302005  -1067.608     1.206089
-181.376116 -13.313262  -8245.124
 0.25000    3.302005  -1013.632     1.206089
-174.824260 -14.799182  -6963.064
 0.50000    3.302005  -959.656616     1.206089
-168.272404 -16.285102  -5747.503
 0.75000    3.302005  -905.680802     1.206089
-161.720547 -17.771022  -4598.441
 1.00000    3.302005  -851.704988     1.206089
-155.168691 -19.256942  -3515.878

 ELEM       118 ================== LENGTH
=     4.928231

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    2.252162 -372.497681    -0.023098
-59.101710  -7.652797  -1417.125
 0.25000    2.252162 -345.320641    -0.023098
-59.101710  -7.624338  -974.985650
 0.50000    2.252162 -318.707267    -0.023098
-59.101710  -7.595880  -565.983122
 0.75000    2.252162 -292.657560    -0.023098
-59.101710  -7.567422  -189.422575
 1.00000    2.252162 -267.171519    -0.023098
-59.101710  -7.538963   155.390480
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      64

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    5.072378  -843.990218     0.477227
-197.383943 -14.970916  -3515.236
 0.25000    5.072378  -790.012531     0.477227
-190.831859 -15.558887  -2508.643
 0.50000    5.072378  -736.034844     0.477227
-184.279775 -16.146858  -1568.553
 0.75000    5.072378  -682.057158     0.477227
-177.727692 -16.734829  -694.967625
 1.00000    5.072378  -628.079471     0.477227
-171.175608 -17.322800   112.114438

 ELEM       119 ================== LENGTH
=     4.927598

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.160338  -253.334629    -0.310661
-43.713386  -3.338914  -155.519580
 0.25000    3.160338  -228.650290    -0.310661
-43.713386  -4.956210   452.281973
 0.50000    3.160338  -204.999208    -0.310661
-43.713386  -4.573507   719.282179
 0.75000    3.160338  -182.381381    -0.310661
-43.713386  -4.190804   957.763063
 1.00000    3.160338  -160.796810    -0.310661
-43.713386  -3.808101  1169.057

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.126783  -605.663179    -0.034608
-154.349394 -12.350130  112.610643
 0.25000    7.126783  -551.692435    -0.034608
-147.798153 -12.307496  825.483484
 0.50000    7.126783  -497.721690    -0.034608
-141.246912 -12.264862  1471.870
 0.75000    7.126783  -443.750946    -0.034608
-134.695671 -12.222228  2051.770
 1.00000    7.126783  -389.780201    -0.034608
-128.144430 -12.179594  2565.183

 ELEM       120 ================== LENGTH
=     4.929017

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.854998 -146.217260    -0.244060
-22.424747  -2.122759  1169.127
 0.25000    3.854998 -125.143250    -0.244060
-22.424747  -1.822015  1336.319
 0.50000    3.854998 -104.069240    -0.244060
-22.424747  -1.521270  1477.543
 0.75000    3.854998  -82.995229    -0.244060
-22.424747  -1.220526  1592.799
 1.00000    3.854998  -61.921219    -0.244060
-22.424747  -0.919782  1682.086

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    8.728628 -362.752099    -0.223569
-86.943576  -8.297893  2565.502
 0.25000    8.728628 -308.765813    -0.223569
-80.390448  -8.022399  2979.242
 0.50000    8.728628 -254.779528    -0.223569
-73.837321  -7.746906  3326.458
 0.75000    8.728628 -200.793242    -0.223569
-67.284193  -7.471412  3607.148
 1.00000    8.728628 -146.806956    -0.223569
-60.731066  -7.195919  3821.314
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      65

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       121 ================== LENGTH
=     4.927624

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.114068  -47.544172    -0.087344
-0.401553   -0.290947  1682.101
 0.25000    4.114068  -26.476117    -0.087344
-0.401553   -0.183347  1727.694
 0.50000    4.114068   -5.408062    -0.087344
-0.401553   -0.075748  1747.333
 0.75000    4.114068   15.659994    -0.087344
-0.401553    0.031852  1741.019
 1.00000    4.114068   36.728049    -0.087344
-0.401553    0.139452  1708.750

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.326179 -119.302873    -0.209108
-13.553199  -5.746635  3821.403
 0.25000    9.326179  -65.331842    -0.209108
-7.001923   -5.489034  3935.129
 0.50000    9.326179  -11.360811    -0.209108
-0.450647   -5.231433  3982.368
 0.75000    9.326179   42.610220    -0.209108
 6.100628   -4.973831  3963.120
 1.00000    9.326179   96.581252    -0.209108
12.651904   -4.716230  3877.385

 ELEM       122 ================== LENGTH
=     4.928294

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.863461   51.089143     0.064609
22.152332   -0.466109  1708.730
 0.25000    3.863461   72.160066     0.064609
22.152332   -0.545712  1632.803
 0.50000    3.863461   93.230988     0.064609
22.152332   -0.625315  1530.916
 0.75000    3.863461  114.301911     0.064609
22.152332   -0.704919  1402.069
 1.00000    3.863461  135.372833     0.064609
22.152332   -0.784522  1249.260

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    8.733340  124.043936    -0.200698
61.037005   -6.146488  3877.280
 0.25000    8.733340  178.022312    -0.200698
67.589172   -5.899214  3691.196
 0.50000    8.733340  232.000687    -0.200698
74.141340   -5.651939  3438.607
 0.75000    8.733340  285.979063    -0.200698
80.693507   -5.404664  3119.512
 1.00000    8.733340  339.957439    -0.200698
87.245674   -5.157389  2733.912

 ELEM       123 ================== LENGTH
=     4.928139

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.167020  149.948692     0.129323
43.760079   -2.471362  1249.200
 0.25000    3.167020  171.535635     0.129323
43.760079   -2.630692  1051.266
 0.50000    3.167020  194.155947     0.129323
43.760079   -2.790022  826.099617
 0.75000    3.167020  217.809628     0.129323
43.760079   -2.949352  572.427760
 1.00000    3.167020  242.496678     0.129323
43.760079   -3.108682  288.977173
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      66

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.116065  366.962116    -0.375907
129.226739  -9.069501  2733.618
 0.25000    7.116065  420.938791    -0.375907
135.778700  -8.606370  2248.258
 0.50000    7.116065  474.915465    -0.375907
142.330660  -8.143240  1696.396
 0.75000    7.116065  528.892140    -0.375907
148.882621  -7.680109  1078.033
 1.00000    7.116065  582.868814    -0.375907
155.434582  -7.216978  393.168821

 ELEM       124 ================== LENGTH
=     4.928060

 LOAD     STEEL --------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    2.237182  256.341513    -0.157419
60.158166   -5.357946  288.848565
 0.25000    2.237182  281.826667    -0.157419
60.158166   -5.164003  -42.609206
 0.50000    2.237182  307.875469    -0.157419
60.158166   -4.970061 -405.812281
 0.75000    2.237182  334.487017    -0.157419
60.158166   -4.776118 -801.455082
 1.00000    2.237182  361.664013    -0.157419
60.158166   -4.582175  -1230.232

 LOAD     CONC --------------------

 REL DIST          P           V2          V3
```

```
         T          M2          M3
 0.00000    5.005322   605.391885    -0.868706
174.876145  -12.317479   392.635893
 0.25000    5.005322   659.367695    -0.868706
181.428000  -11.247720  -386.465504
 0.50000    5.005322   713.343505    -0.868706
187.979856  -10.176961  -1232.066
 0.75000    5.005322   767.319315    -0.868706
194.531712   -9.106702  -2144.165
 1.00000    5.005322   821.295125    -0.868706
201.083568   -8.036444  -3122.764

 ELEM      125 ================== LENGTH
=     4.928108

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    1.378595   370.863970    -0.815988
 57.574708   -6.656700  -1230.407
 0.25000    1.378595   398.744896    -0.815988
 57.574708   -5.651381  -1704.409
 0.50000    1.378595   427.471300    -0.815988
 57.574708   -4.646062  -2213.283
 0.75000    1.378595   457.043183    -0.815988
 57.574708   -3.640742  -2758.069
 1.00000    1.378595   487.460545    -0.815988
 57.574708   -2.635423  -3339.809

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    3.128312   829.249026    -1.456247
 163.110732  -12.571047  -3123.418
 0.25000    3.128312   883.225363    -1.456247
 169.662652  -10.776911  -4178.325
 0.50000    3.128312   937.201699    -1.456247
 176.214571   -8.982776  -5299.733
 0.75000    3.128312   991.178036    -1.456247
 182.766491   -7.188641  -6487.641
 1.00000    3.128312   1045.154    -1.456247
 189.318411   -5.394506  -7742.049
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                      Page
 < BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              67

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 ELEM      126 ================== LENGTH
=     3.449691

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    0.897847   487.507077    -0.651542
 22.960729   -3.776766  -3339.919
 0.25000    0.897847   509.405285    -0.651542
 22.960729   -3.214861  -3769.755
 0.50000    0.897847   531.923574    -0.651542
 22.960729   -2.652957  -4218.743
 0.75000    0.897847   555.061945    -0.651542
 22.960729   -2.091053  -4687.419
 1.00000    0.897847   578.820398    -0.651542
 22.960729   -1.529148  -5176.317

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    2.165857   1026.262    -0.960662
 62.124273   -7.676550  -7742.483
 0.25000    2.165857   1064.045    -0.960662
 66.710637   -6.684853  -8643.847
 0.50000    2.165857   1101.829    -0.960662
 71.297001   -6.019557  -9577.796
 0.75000    2.165857   1139.612    -0.960662
 75.883366   -5.191060  -10544.331
 1.00000    2.165857   1177.396    -0.960662
 80.469730   -4.362564  -11543.452

 ELEM      127 ================== LENGTH
=     3.450336

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    3.624101  -582.247529     0.336724
-25.206860   -1.415490   -5173.104
 0.25000    3.624101  -558.484635     0.336724
-25.206860   -1.705943   -4681.160
 0.50000    3.624101  -535.341939     0.336724
-25.206860   -1.996396   -4201.446
 0.75000    3.624101  -512.819441     0.336724
-25.206860   -2.286849   -3757.427
 1.00000    3.624101  -490.917141     0.336724
-25.206860   -2.577302   -3324.568

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    9.261049   -1206.698     0.093981
-92.785125   -3.761751   -11535.249
 0.25000    9.261049   -1168.907     0.093981
-88.197903   -3.842817   -10510.669
 0.50000    9.261049   -1131.116     0.093981
-83.610682   -3.923883   -9518.688
 0.75000    9.261049   -1093.326     0.093981
-79.023460   -4.004950   -8559.304
 1.00000    9.261049   -1055.535     0.093981
-74.436239   -4.086016   -7632.517

 ELEM      128 ================== LENGTH
=     4.928365

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    4.195811  -490.996581     0.510910
-60.369941   -1.213759   -3324.454
 0.25000    4.195811  -460.577632     0.510910
-60.369941   -1.843248   -2738.328
 0.50000    4.195811  -431.004206     0.510910
-60.369941   -2.472736   -2189.160
 0.75000    4.195811  -402.276302     0.510910
-60.369941   -3.102224   -1675.908
 1.00000    4.195811  -374.393921     0.510910
-60.369941   -3.731713   -1197.530
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                      Page
 < BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              68

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    10.699827   -1074.662     0.666759
-202.417170   -0.654675   -7632.074
 0.25000    10.699827   -1020.683     0.666759
-195.864908   -1.476184   -6341.247
 0.50000    10.699827   -966.703382     0.666759
-189.312647   -2.297692   -5116.926
 0.75000    10.699827   -912.724228     0.666759
-182.760385   -3.119201   -3959.113
 1.00000    10.699827   -858.745074     0.666759
-176.208123   -3.940710   -2867.807

 ELEM      129 ================== LENGTH
=     4.927840

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    5.147154  -365.328373    -0.142405
-63.117843   -1.426505   -1197.355
 0.25000    5.147154  -338.153490    -0.142405
-63.117843   -1.251068   -764.082450
 0.50000    5.147154  -311.542228    -0.142405
-63.117843   -1.075631  -363.940721
 0.75000    5.147154  -285.494588    -0.142405
-63.117843   -0.900194    3.764175
 1.00000    5.147154  -260.010570    -0.142405
-63.117843   -0.724757   339.726600

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    13.022917  -851.102109     0.121951
-213.632770   -1.688999   -2867.150
 0.25000    13.022917  -797.128706     0.121951
-207.081206   -1.538760   -1851.873
 0.50000    13.022917  -743.155304     0.121951
-200.529642   -1.388521  -903.088734
 0.75000    13.022917  -689.181901     0.121951
-193.978079   -1.238282   -20.797610
 1.00000    13.022917  -635.208498     0.121951
-187.426515   -1.088043   795.000437

 ELEM      130 ================== LENGTH
=     4.928455

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    6.183049  -245.949742    -0.419372
-45.959616   1.786612   339.840413
 0.25000    6.183049  -221.449003    -0.419372
-45.959616   2.303325   627.639954
 0.50000    6.183049  -198.357496    -0.419372
-45.959616   2.820039   886.119963
 0.75000    6.183049  -176.675218    -0.419372
-45.959616   3.336752   1117.017
 1.00000    6.183049  -156.402171    -0.419372
-45.959616   3.853466   1322.067

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    15.571988  -611.943691    -0.311657
-164.046230   7.263393   795.485520
 0.25000    15.571988  -557.963551    -0.311657
-157.493849   7.647389   1516.615
 0.50000    15.571988  -503.983410    -0.311657
-150.941467   8.031386   2170.435
 0.75000    15.571988  -450.003270    -0.311657
-144.389086   8.415383   2758.145
 1.00000    15.571988  -396.023130    -0.311657
-137.836704   8.799379   3279.345
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                      Page
 < BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              69

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 ELEM      131 ================== LENGTH
=     4.928188

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    6.989271  -141.808627    -0.341133
-23.893790   5.811196   1322.121
 0.25000    6.989271  -122.241258    -0.341133
-23.893790   6.231487   1484.781
 0.50000    6.989271  -102.673889    -0.341133
-23.893790   6.651778   1623.334
 0.75000    6.989271   -83.106520    -0.341133
-23.893790   7.072069   1737.780
 1.00000    6.989271   -63.539152    -0.341133
-23.893790   7.492361   1828.117

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    17.563417  -368.891881    -0.433422
-92.430509   13.630401   3279.619
 0.25000    17.563417  -314.911674    -0.433422
-85.878484   14.164397   3700.860
 0.50000    17.563417  -260.937468    -0.433422
-79.326458   14.698393   4055.598
 0.75000    17.563417  -206.960261    -0.433422
-72.774433   15.232388   4343.834
 1.00000    17.563417  -152.983054    -0.433422
-66.222407   15.766384   4565.568

 ELEM      132 ================== LENGTH
=     4.928029

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    7.319232   -49.315179    -0.187059
-0.795953   8.294088   1828.134
 0.25000    7.319232   -29.748439    -0.187059
-0.795953   8.524545   1876.638
 0.50000    7.319232   -10.181698    -0.187059
-0.795953   8.755003   1901.435
 0.75000    7.319232   9.385042    -0.187059
-0.795953   8.985461   1901.926
 1.00000    7.319232   28.951783    -0.187059
-0.795953   9.215919   1878.310

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    18.354359  -125.966577    -0.412181
-14.481977   17.686146   4565.666
 0.25000    18.354359   -71.991104    -0.412181
 7.930162   18.193956   4687.609
 0.50000    18.354359   -18.015631    -0.412181
-1.378347   18.701766   4743.054
 0.75000    18.354359   35.959842    -0.412181
 5.173468   19.209576   4732.000
 1.00000    18.354359   89.935315    -0.412181
 11.725283   19.717386   4654.448

 ELEM      133 ================== LENGTH
=     4.928005

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    7.088452   43.186556    -0.031966
 21.854361   8.659504   1878.292
 0.25000    7.088452   62.753199    -0.031966
 21.854361   8.698886   1813.033
 0.50000    7.088452   82.319843    -0.031966
 21.854361   8.738268   1723.668
 0.75000    7.088452   101.886487    -0.031966
 21.854361   8.777650   1610.197
 1.00000    7.088452   121.453131    -0.031966
 21.854361   8.817032   1472.619
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                      Page
 < BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              70

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    17.727671   116.978608    -0.388303
 62.180490   18.207346   4654.358
 0.25000    17.727671   170.953815    -0.388303
 68.732273   18.685736   4476.992
 0.50000    17.727671   224.929021    -0.388303
 75.284055   19.164126   4233.128
 0.75000    17.727671   278.904228    -0.388303
 81.835838   19.642516   3922.766
 1.00000    17.727671   332.879434    -0.388303
 88.387620   20.120907   3545.907

 ELEM      134 ================== LENGTH
=     4.928104

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    6.360000   135.963510    0.037306
 44.758355   7.052886   1472.557
 0.25000    6.360000   156.235112    0.037306
 44.758355   7.006924   1292.704
 0.50000    6.360000   177.915843    0.037306
 44.758355   6.960962   1087.007
 0.75000    6.360000   201.005703    0.037306
 44.758355   6.915000   853.731255
 1.00000    6.360000   225.504694    0.037306
 44.758355   6.869038   591.139985

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    15.866280   359.874818    -0.533513
 135.504369   15.617445   3545.611
 0.25000    15.866280   413.851108    -0.533513
 142.056283   16.274747   3068.986
 0.50000    15.866280   467.827397    -0.533513
 148.608197   16.932049   2525.860
 0.75000    15.866280   521.803687    -0.533513
 155.160111   17.589352   1916.235
 1.00000    15.866280   575.779977    -0.533513
 161.712025   18.246654   1240.109

 ELEM      135 ================== LENGTH
=     4.928318

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    5.368655   239.567725    -0.235164
 63.100988   4.471126   591.023106
 0.25000    5.368655   265.054215    -0.235164
 63.100988   4.760866   280.213797
 0.50000    5.368655   291.104380    -0.235164
 63.100988   5.050606   -62.344143
 0.75000    5.368655   317.718222    -0.235164
 63.100988   5.340346   -437.345205
 1.00000    5.368655   344.895741    -0.235164
 63.100988   5.630087   -845.483885

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    13.396335   599.087448    -0.971939
 187.296474   12.276221   1239.619
 0.25000    13.396335   653.066085    -0.971939
 193.848673   13.473728   468.242383
 0.50000    13.396335   707.044722    -0.971939
 200.400872   14.671235  -369.639968
 0.75000    13.396335   761.023359    -0.971939
 206.953071   15.868741   -1274.028
 1.00000    13.396335   815.001996    -0.971939
 213.505270   17.066248   -2244.923
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                      Page
 < BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              71

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 ELEM      136 ================== LENGTH
=     4.927666

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    4.425827   353.963265    -0.811655
 62.113465   3.350884  -845.665757
 0.25000    4.425827   381.847688    -0.811655
 62.113465   4.350774   -1298.804
 0.50000    4.425827   410.565514    -0.811655
 62.113465   5.350665   -1786.807
 0.75000    4.425827   440.134743    -0.811655
 62.113465   6.350556   -2310.716
 1.00000    4.425827   470.549374    -0.811655
 62.113465   7.350446   -2871.573

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    11.101444   822.726312    -1.374897
 179.417245   11.516931   -2245.586
 0.25000    11.101444   876.697803    -1.374897
 185.968576   13.210690   -3292.360
 0.50000    11.101444   930.669294    -1.374897
 192.519908   14.904448   -4405.623
 0.75000    11.101444   984.640786    -1.374897
 199.071240   16.598207   -5583.374
 1.00000    11.101444   1038.612    -1.374897
 205.622571   18.291966   -6831.613

 ELEM      137 ================== LENGTH
=     3.449731

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    3.816201   470.533005    -0.373049
 29.438969   5.899973   -2871.690
 0.25000    3.816201   492.431464    -0.373049
 29.438969   6.221702   -3286.891
 0.50000    3.816201   514.950013    -0.373049
 29.438969   6.543432   -3721.246
 0.75000    3.816201   538.088650    -0.373049
 29.438969   6.865161   -4175.289
 1.00000    3.816201   561.847377    -0.373049
 29.438969   7.186891   -4649.555

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    9.624525   1019.731    -0.221464
 82.063460   12.645451   6832.064
 0.25000    9.624525   1057.515    -0.221464
 87.249877   14.969449   -7727.807
 0.50000    9.624525   1095.299    -0.221464
 91.836294   15.160446   -8656.136
 0.75000    9.624525   1133.083    -0.221464
 96.422711   15.351444   -9617.051
 1.00000    9.624525   1170.867    -0.221464
 101.009128   15.542442   -10610.552

 ELEM      138 ================== LENGTH
=     3.450023

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    3.688038  -536.162264     0.964538
-18.267407   6.884281   -4649.560
 0.25000    3.688038  -512.401526     0.964538
-18.267407   6.052361   -4197.408
 0.50000    3.688038  -489.260929     0.964538
-18.267407   5.220441   -3765.483
 0.75000    3.688038  -466.740475     0.964538
-18.267407   4.388521   -3353.249
 1.00000    3.688038  -444.840161     0.964538
-18.267407   3.556601   -2960.172
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                      Page
 < BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              72

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    9.271936   -1106.000     1.651294
-71.688995   14.710018   -10610.568
 0.25000    9.271936   -1068.213     1.651294
-67.102190   13.285767   -9672.932
 0.50000    9.271936   -1030.426     1.651294
-62.515385   11.861516   -8767.888
 0.75000    9.271936   -992.638568     1.651294
-57.928580   10.437265   -7895.436
 1.00000    9.271936   -954.851331     1.651294
-53.341774   9.013015   -7055.576

 ELEM      139 ================== LENGTH
=     4.927989

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    4.060156  -445.023406     1.356276
-51.586367   4.437517   -2960.073
 0.25000    4.060156  -414.606780     1.356276
-51.586367   2.766589   -2430.629
 0.50000    4.060156  -385.035611     1.356276
-51.586367   1.095660   -1938.137
 0.75000    4.060156   -356.309901     1.356276
-51.586367   -0.575268   -1481.556
 1.00000    4.060156  -328.429649     1.356276
-51.586367   -2.246197   -1059.844

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    10.094403  -974.186362     2.689945
-178.059370   10.958141   -7055.176
 0.25000    10.094403  -920.211330     2.689945
-171.507608   7.644136   -5888.230
 0.50000    10.094403  -866.236298     2.689945
-164.955847   4.330131   -4787.780
 0.75000    10.094403  -812.261267     2.689945
-158.404085   1.016126   -3753.828
 1.00000    10.094403   -758.286234     2.689945
-151.852324   -2.297879   -2786.373

 ELEM      140 ================== LENGTH
=     4.928729

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    4.791150  -319.464550     0.754940
-53.824415   -0.483919   -1059.692
 0.25000    4.791150  -292.284765     0.754940
-53.824415   -1.414143   -682.857004
 0.50000    4.791150  -265.668703     0.754940
-53.824415   -2.344367   -339.164691
 0.75000    4.791150   -239.616364     0.754940
-53.824415   -3.274591   -27.920914
 1.00000    4.791150  -214.127749     0.754940
-53.824415   -4.204815   251.568937

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    11.803941  -750.843445     2.232013
-189.145608   1.824474   -2785.792
 0.25000    11.803941  -696.860305     2.232013
-182.592863   -0.925773   -1893.874
 0.50000    11.803941  -642.877166     2.232013
-176.040117   -3.676019   -1068.474
 0.75000    11.803941  -588.894023     2.232013
-169.487372   -6.426265   -309.597079
 1.00000    11.803941  -534.910887     2.232013
-162.934626   -9.176512   382.775559
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                      Page
 < BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              73

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 ELEM      141 ================== LENGTH
=     4.927664

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    5.595798   -200.247262     0.459748
-37.602702   -2.263811   251.695908
 0.25000    5.595798   -175.750497     0.459748
-37.602702   -2.830182   483.150129
 0.50000    5.595798   -152.662696     0.459748
-37.602702   -3.396554   685.294229
 0.75000    5.595798   -130.983898     0.459748
-37.602702   -3.962925   859.166382
 1.00000    5.595798   -110.714105     0.459748
-37.602702   -4.529297   1008.595

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    13.753211   -512.067516     1.739459
-142.847284   -4.478599   383.304853
 0.25000    13.753211   -458.096040     1.739459
-136.295954   -6.621467   980.884899
 0.50000    13.753211   -404.124564     1.739459
-129.744624   -8.764335   1511.977
 0.75000    13.753211   -350.153089     1.739459
-123.193295   -10.907203   1976.580
 1.00000    13.753211   -296.181613     1.739459
-116.641965   -13.050071   2374.695

 ELEM      142 ================== LENGTH
=     4.928648

 LOAD    STEEL --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    6.192066   -96.134600     0.490080
-17.325203   -3.089436   1008.644
 0.25000    6.192066   -76.565403     0.490080
-17.325203   -3.693295   1115.041
 0.50000    6.192066   -56.996205     0.490080
-17.325203   -4.297154   1197.325
 0.75000    6.192066   -37.427008     0.490080
-17.325203   -4.901012   1255.498
 1.00000    6.192066   -17.857811     0.490080
-17.325203   -5.504871   1289.558

 LOAD    CONC --------------------

 REL DIST           P          V2          V3
        T          M2          M3
 0.00000    15.233601  -269.024849     1.498213
-76.211471   -9.478830   2374.952
 0.25000    15.233601  -215.042598     1.498213
-69.658834   -11.324871   2673.177
 0.50000    15.233601  -161.060348     1.498213
-63.106196   -13.170912   2904.887
 0.75000    15.233601  -107.078098     1.498213
-56.553558   -15.016954   3070.082
 1.00000    15.233601   -53.095847     1.498213
-50.000921   -16.862995   3168.762

 ELEM      143 ================== LENGTH
=     4.927751
```

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.385923	-3.559760	0.641895
2.358955	-5.042380	1289.565	
0.25000	6.385923	16.005874	0.641895
2.358955	-5.833155	1281.899	
0.50000	6.385923	35.571509	0.641895
2.358955	-6.623930	1250.129	
0.75000	6.385923	55.137143	0.641895
2.358955	-7.414705	1194.255	
1.00000	6.385923	74.702778	0.641895
2.358955	-8.205480	1114.278	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
74

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.722637	-25.907468	1.504602
-7.192916	-15.696591	3168.829	
0.25000	15.722637	28.064954	1.504602
-0.641471	-17.550167	3167.500	
0.50000	15.722637	82.037377	1.504602
5.909974	-19.403743	3099.681	
0.75000	15.722637	136.009800	1.504602
12.461418	-21.257319	2965.371	
1.00000	15.722637	189.982222	1.504602
19.012863	-23.110895	2764.570	

ELEM 144 ========== LENGTH = 4.929075

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.143532	88.960335	0.884129
21.333770	-8.801858	1114.254	
0.25000	6.143532	108.531228	0.884129
21.333770	-9.891342	992.572506	
0.50000	6.143532	128.102120	0.884129
21.333770	-10.980827	846.774567	
0.75000	6.143532	147.673012	0.884129
21.333770	-12.070311	676.860030	
1.00000	6.143532	167.243904	0.884129
21.333770	-13.159796	482.828894	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.111912	217.025195	1.701546
59.980735	-24.609964	2764.457	
0.25000	15.111912	271.012120	1.701546
66.533940	-26.706727	2463.760	
0.50000	15.111912	324.999046	1.701546
73.087145	-28.803489	2096.537	
0.75000	15.111912	378.985972	1.701546
79.640350	-30.900251	1662.788	
1.00000	15.111912	432.972898	1.701546
86.193555	-32.997013	1162.512	

ELEM 145 ========== LENGTH = 4.927365

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.573370	182.026210	1.062231
38.823160	-14.552475	482.770080	
0.25000	5.573370	202.294774	1.062231
38.823160	-15.860975	246.203470	
0.50000	5.573370	223.972256	1.062231
38.823160	-17.169476	-16.198578	
0.75000	5.573370	247.058657	1.062231
38.823160	-18.477977	-306.117626	
1.00000	5.573370	271.553976	1.062231
38.823160	-19.786477	-625.451240	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.680934	460.430181	1.759325
119.300399	-36.485922	1162.237	
0.25000	13.680934	514.398383	1.759325
125.851331	-38.653131	561.819638	
0.50000	13.680934	568.366584	1.759325
132.402264	-40.820340	-105.077695	
0.75000	13.680934	622.334786	1.759325
138.953196	-42.987549	-838.455290	
1.00000	13.680934	676.302988	1.759325
145.504128	-45.154758	-1638.313	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
75

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 146 ========== LENGTH = 4.928948

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.909954	285.395736	0.452457
49.290556	-21.401399	-625.586226	
0.25000	4.909954	310.885483	0.452457
49.290556	-21.958933	-992.908239	
0.50000	4.909954	336.938979	0.452457
49.290556	-22.516468	-1391.987	
0.75000	4.909954	363.556223	0.452457
49.290556	-23.074003	-1823.517	
1.00000	4.909954	390.737216	0.452457
49.290556	-23.631538	-2288.193	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.045064	698.535074	0.533529
150.163502	-49.130577	-1638.854	
0.25000	12.045064	752.520611	0.533529
156.716538	-49.788011	-2532.876	
0.50000	12.045064	806.506148	0.533529
163.269575	-50.445445	-3493.421	
0.75000	12.045064	860.491685	0.533529
169.822612	-51.102879	-4520.490	
1.00000	12.045064	914.477222	0.533529
176.375648	-51.760313	-5614.081	

ELEM 147 ========== LENGTH = 4.927537

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.451015	399.950943	-1.272486
39.822628	-24.740626	-2288.346	
0.25000	4.451015	427.828640	-1.272486
39.822628	-23.173070	-2798.124	
0.50000	4.451015	456.551718	-1.272486
39.822628	-21.605514	-3342.764	
0.75000	4.451015	486.120176	-1.272486
39.822628	-20.037959	-3923.309	
1.00000	4.451015	516.534015	-1.272486
39.822628	-18.470403	-4540.799	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.950208	921.424012	-2.397220
118.241226	-54.409008	-5614.634	
0.25000	10.950208	975.394098	-2.397220
124.792387	-51.455909	-6782.964	
0.50000	10.950208	1029.364	-2.397220
131.343548	-48.502811	-8017.779	
0.75000	10.950208	1083.334	-2.397220
137.894709	-45.549713	-9319.079	
1.00000	10.950208	1137.304	-2.397220
144.445870	-42.596614	-10686.864	

ELEM 148 ========== LENGTH = 3.450070

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.559971	516.709869	-1.539003
-1.305481	-18.207944	-4540.906	
0.25000	4.559971	538.610481	-1.539003
-1.305481	-16.880527	-4995.978	
0.50000	4.559971	561.131242	-1.539003
-1.305481	-15.553111	-5470.206	
0.75000	4.559971	584.272153	-1.539003
-1.305481	-14.225694	-5964.127	
1.00000	4.559971	608.033215	-1.539003
-1.305481	-12.898277	-6478.274	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
76

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.219132	1115.522	-2.795617
-8.393443	-41.949755	-10687.243	
0.25000	11.219132	1153.310	-2.795617
-3.806575	-39.538487	-11665.696	
0.50000	11.219132	1191.097	-2.795617
0.780293	-37.127219	-12676.742	
0.75000	11.219132	1228.885	-2.795617
5.367160	-34.715951	-13720.380	
1.00000	11.219132	1266.673	-2.795617
9.954028	-32.304683	-14796.611	

ELEM 149 ========== LENGTH = 4.927597

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.317541	-692.424104	0.676380
-57.330818	-11.095723	-6478.242	
0.25000	5.317541	-658.768926	0.676380
-57.330818	-11.928955	-5646.124	
0.50000	5.317541	-626.563077	0.676380
-57.330818	-12.762187	-4854.573	
0.75000	5.317541	-595.806558	0.676380
-57.330818	-13.595419	-4101.804	
1.00000	5.317541	-566.499368	0.676380
-57.330818	-14.428651	-3386.031	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.999439	-1482.383	0.778059
-189.644397	-28.070070	-14796.418	
0.25000	12.999439	-1428.413	0.778059
-183.093158	-29.028561	-13003.515	
0.50000	12.999439	-1374.442	0.778059
-176.541918	-29.987051	-11277.098	
0.75000	12.999439	-1320.471	0.778059
-169.990678	-30.945542	-9617.167	
1.00000	12.999439	-1266.500	0.778059
-163.439438	-31.904032	-8023.723	

ELEM 150 ========== LENGTH = 4.928504

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.813364	-563.011772	0.095003
-88.015228	-10.802528	-3385.894	
0.25000	6.813364	-534.846757	0.095003
-88.015228	-10.919584	-2709.631	
0.50000	6.813364	-507.527289	0.095003
-88.015228	-11.036639	-2077.550	
0.75000	6.813364	-481.053367	0.095003
-88.015228	-11.153695	-1488.609	
1.00000	6.813364	-455.424991	0.095003
-88.015228	-11.270750	-881.765841	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.492358	-1277.116	-0.135875
-283.847758	-23.435676	-8023.145	
0.25000	16.492358	-1223.135	-0.135875
-277.295312	-23.268262	-6482.833	
0.50000	16.492358	-1169.154	-0.135875
-270.742866	-23.100847	-5009.031	
0.75000	16.492358	-1115.174	-0.135875
-264.190420	-22.933433	-3601.741	
1.00000	16.492358	-1061.193	-0.135875
-257.637973	-22.766018	-2260.962	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
77

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 151 ========== LENGTH = 4.928619

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.723412	-444.084738	-1.302668
-85.195463	-6.645382	-881.600573	
0.25000	8.723412	-419.160405	-1.302668
-85.195463	-5.040294	-349.832667	
0.50000	8.723412	-394.799782	-1.302668
-85.195463	-3.435205	151.571893	
0.75000	8.723412	-371.002870	-1.302668
-85.195463	-1.830117	623.307687	
1.00000	8.723412	-347.769668	-1.302668
-85.195463	-0.225028	1066.069	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.994173	-1047.823	-2.474632
-281.005691	-11.864765	-2260.245	
0.25000	20.994173	-993.841330	-2.474632
-274.453092	-8.815635	-1002.422	
0.50000	20.994173	-939.859399	-2.474632
-267.900494	-5.766506	188.887331	
0.75000	20.994173	-885.877469	-2.474632
-261.347895	-2.717376	1313.682	
1.00000	20.994173	-831.895539	-2.474632
-254.795296	0.331754	2371.964	

ELEM 152 ========== LENGTH = 4.927865

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.580210	-333.584120	-1.566069
-65.818126	4.281091	1066.182	
0.25000	10.580210	-310.777188	-1.566069
-65.818126	6.210435	1463.066	
0.50000	10.580210	-288.252069	-1.566069
-65.818126	8.139779	1832.032	
0.75000	10.580210	-266.008763	-1.566069
-65.818126	10.069123	2173.419	
1.00000	10.580210	-244.047268	-1.566069
-65.818126	11.998467	2487.576	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.425622	-807.733002	-3.089277
-224.449412	11.079423	2372.541	
0.25000	25.425622	-753.759324	-3.089277
-217.897814	14.885309	3334.394	
0.50000	25.425622	-699.785645	-3.089277
-211.346217	18.691195	4229.753	
0.75000	25.425622	-645.811967	-3.089277
-204.794620	22.497080	5058.619	
1.00000	25.425622	-591.838288	-3.089277
-198.243023	26.302966	5820.990	

ELEM 153 ========== LENGTH = 4.928042

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.989074	-229.774235	-1.214208
-41.165275	15.418874	2487.621	
0.25000	11.989074	-207.952863	-1.214208
-41.165275	16.914791	2757.263	
0.50000	11.989074	-186.131492	-1.214208
-41.165275	18.410708	3000.021	
0.75000	11.989074	-164.310121	-1.214208
-41.165275	19.906625	3215.895	
1.00000	11.989074	-142.488749	-1.214208
-41.165275	21.402543	3404.885	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
78

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	28.823825	-565.227315	-2.605902
-146.040692	34.547397	5821.302	
0.25000	28.823825	-511.251700	-2.605902
-139.488860	37.757896	6484.419	
0.50000	28.823825	-457.276085	-2.605902
-132.937028	40.968395	7081.037	
0.75000	28.823825	-403.300469	-2.605902
-126.385195	44.178894	7611.157	
1.00000	28.823825	-349.324854	-2.605902
-119.833363	47.389393	8074.778	

ELEM 154 ========== LENGTH = 4.928632

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.667343	-128.178897	-0.885922
-10.808017	23.053536	3404.924	
0.25000	12.667343	-106.354914	-0.885922
-10.808017	24.145132	3549.416	
0.50000	12.667343	-84.530932	-0.885922
-10.808017	25.236728	3667.016	
0.75000	12.667343	-62.706950	-0.885922
-10.808017	26.328323	3757.726	
1.00000	12.667343	-40.882967	-0.885922
-10.808017	27.419919	3821.546	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.484075	-321.170208	-2.047771
-47.904543	51.427077	8074.982	
0.25000	30.484075	-267.1881.34	-2.047771
-41.351927	53.950255	8437.457	
0.50000	30.484075	-213.206061	-2.047771
-34.799310	56.473433	8733.418	
0.75000	30.484075	-159.223987	-2.047771
-28.246694	58.996610	8962.864	
1.00000	30.484075	-105.2413.13	-2.047771
-21.694078	61.519788	9125.796	

ELEM 155 ========== LENGTH = 4.928151

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.461760	-26.353611	-0.876237
21.017475	26.931490	3821.550	
0.25000	12.461760	-4.531757	-0.876237
21.017475	28.011047	3840.576	
0.50000	12.461760	17.290097	-0.876237
21.017475	29.090604	3832.717	
0.75000	12.461760	39.111952	-0.876237
21.017475	30.170161	3797.972	
1.00000	12.461760	60.933806	-0.876237
21.017475	31.249718	3736.342	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.018363	-75.957258	-2.227291
56.511234	60.414246	9125.777	
0.25000	30.018363	-21.980448	-2.227291
63.063212	63.158353	9186.109	
0.50000	30.018363	31.996362	-2.227291
69.615189	65.902461	9179.939	
0.75000	30.018363	85.973172	-2.227291
76.167166	68.646568	9107.267	
1.00000	30.018363	139.949982	-2.227291
82.719143	71.390675	8968.094	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
79

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 156 ========== LENGTH = 4.927789

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.345488	75.993947	-1.232365
54.825948	28.561513	3736.314	
0.25000	11.345488	97.814199	-1.232365
54.825948	30.079721	3629.253	
0.50000	11.345488	119.634450	-1.232365
54.825948	31.597930	3495.311	
0.75000	11.345488	141.454702	-1.232365
54.825948	33.116138	3334.487	
1.00000	11.345488	163.274954	-1.232365
54.825948	34.634347	3146.781	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.350017	170.401643	-3.453526
165.292218	64.967742	8967.864	
0.25000	27.350017	224.374489	-3.453526
171.843714	69.222304	8724.692	
0.50000	27.350017	278.347335	-3.453526
178.395210	73.476866	8415.029	
0.75000	27.350017	332.320181	-3.453526
184.946706	77.731428	8038.874	
1.00000	27.350017	386.293027	-3.453526
191.498202	81.985990	7596.227	

ELEM 157 ========== LENGTH = 4.928656

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.425302	178.556017	-1.071569
88.721825	30.005056	3146.698	
0.25000	9.425302	200.098248	-1.071569
88.721825	31.325406	2913.358	
0.50000	9.425302	221.076764	-1.071569
88.721825	32.645755	2653.822	
0.75000	9.425302	241.491565	-1.071569
88.721825	33.966104	2368.784	
1.00000	9.425302	261.342651	-1.071569
88.721825	35.286453	2058.939	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.733525	415.737861	-3.262761
268.895689	70.860790	7595.733	
0.25000	22.733525	469.720198	-3.262761
275.448337	74.881046	7050.218	
0.50000	22.733525	523.702535	-3.262761
282.000986	78.901303	6438.188	
0.75000	22.733525	577.684872	-3.262761
288.553634	82.921559	5759.643	
1.00000	22.733525	631.667209	-3.262761
295.106282	86.941815	5014.583	

ELEM 158 ========== LENGTH = 4.927665

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.979226	272.652263	1.215313
109.792546	29.329436	2058.784	
0.25000	6.979226	292.137019	1.215313
109.792546	27.832271	1791.881	
0.50000	6.979226	311.460703	1.215313
109.792546	26.335107	1339.074	
0.75000	6.979226	330.623314	1.215313
109.792546	24.837942	943.560558	
1.00000	6.979226	349.624852	1.215313
109.792546	23.340778	524.539649	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
80

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.844766	649.256155	3.076082
332.665381	72.598663	5013.828	
0.25000	16.844766	703.227636	3.076082
339.216711	68.809188	4180.754	
0.50000	16.844766	757.199118	3.076082
345.768042	65.019713	3281.193	
0.75000	16.844766	811.170599	3.076082
352.319372	61.230239	2315.142	
1.00000	16.844766	865.142080	3.076082
358.870702	57.440764	1282.604	

ELEM 159 ========== LENGTH = 1.478494

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.279856	343.825813	4.866520
77.697150	14.882207	524.755968	
0.25000	3.279856	349.529561	4.866520
77.697150	13.083427	396.620568	
0.50000	3.279856	355.179909	4.866520
77.697150	11.284646	266.386897	
0.75000	3.279856	360.856957	4.866520
77.697150	9.485866	134.054856	
1.00000	3.279856	366.534006	4.866520
77.697150	7.687085	-0.375556	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.915063	835.867063	12.493428
250.911987	37.023344	1282.880	
0.25000	7.915063	852.060580	12.493428
252.877645	32.405479	970.931021	
0.50000	7.915063	868.254157	12.493428
254.843303	27.787614	652.996608	
0.75000	7.915063	884.447734	12.493428
256.808961	23.169749	329.076668	
1.00000	7.915063	900.641311	12.493428
258.774619	18.551884	-0.828799	

ELEM 160 ========== LENGTH = 2.976955

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43669	25.973151	5.552337	-1.578231
-0.000409	-1.964555	25.199443	
0.57750	25.915899	6.508127	-1.578231
-0.000409	-1.302899	22.671335	
0.71834	25.858647	7.463916	-1.578231
-0.000409	-0.641243	19.742523	
0.85917	25.801396	8.419705	-1.578231
-0.000409	0.020413	16.413007	
1.00000	25.744144	9.375494	-1.578231
-0.000409	0.682069	12.682788	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43669	80.343515	-6.923225	-3.899037
-0.001425	-4.225708	11.551350	
0.57752	80.343515	-6.923225	-3.899037
-0.001425	-3.201081	14.453835	
0.71834	80.343515	-6.923225	-3.899037
-0.001425	-1.566453	17.356320	
0.85917	80.343515	-6.923225	-3.899037
-0.001425	0.068175	20.258804	
1.00000	80.343515	-6.923225	-3.899037
-0.001425	1.702803	23.161289	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
81

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 161 ========== LENGTH = 2.977880

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	24.868666	14.801745	-1.440428
0.000323	-0.603044	12.683061	

```
 0.14086    24.811080    15.758024    -1.440428
 0.000323     0.001173     6.273607
 0.28172    24.753494    16.714304    -1.440428
 0.000323     0.605390    -0.536978
 0.42259    24.695908    17.670584    -1.440428
 0.000323     1.209606    -7.748694
 0.56345    24.638322    18.626864    -1.440428
 0.000323     1.813823   -15.361541

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    77.685134   15.241657   -3.431939
 0.000272    -1.425310   23.161560
 0.14086    77.685134   15.241657   -3.431939
 0.000272     0.014286   16.768142
 0.28172    77.685134   15.241657   -3.431939
 0.000272     1.453882   10.374723
 0.42259    77.685134   15.241657   -3.431939
 0.000272     2.893478    3.981304
 0.56345    77.685134   15.241657   -3.431939
 0.000272     4.333073   -2.412115

ELEM      162 ================== LENGTH
=     2.977211

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43665    6.811397   -6.167727   -1.755061
-0.000139   -1.939454    7.753081
 0.57749    6.753951   -5.211791   -1.755061
-0.000139   -1.203552   10.138812
 0.71833    6.696696   -4.255856   -1.755061
-0.000139   -0.467650   12.123717
 0.85916    6.639441   -3.299921   -1.755061
-0.000139    0.268251   13.707796
 1.00000    6.582185   -2.343986   -1.755061
-0.000139    1.004153   14.891049

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43665   21.267187  -26.412745   -4.270898
 0.000153    -4.719077    -8.511301
 0.57749   21.267187  -26.412745   -4.270898
 0.000153    -2.928278    2.563634
 0.71833   21.267187  -26.412745   -4.270898
 0.000153    -1.137478   13.638569
 0.85916   21.267187  -26.412745   -4.270898
 0.000153     0.653321   24.713504
 1.00000   21.267187  -26.412745   -4.270898
 0.000153     2.444120   35.788439

ELEM      163 ================== LENGTH
=     2.977271

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    6.419025    4.054826   -1.722572
 0.000134    0.988455   14.855127
 0.14084    6.361448    5.010757   -1.722572
 0.000134   -0.276151   12.949447
 0.28168    6.303872    5.966688   -1.722572
 0.000134    0.446154   10.647928
 0.42252    6.246295    6.922619   -1.722572
 0.000134    1.168459    7.945571
 0.56336    6.188718    7.878550   -1.722572
 0.000134    1.890763    4.842375
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                          Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                            82

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   19.284888   15.713660   -4.130926
 0.000568    -2.394964   35.737503
 0.14084   19.284888   15.713660   -4.130926
 0.000568    -0.662793   29.148487
 0.28169   19.284888   15.713660   -4.130926
 0.000568     1.069377   22.559471
 0.42252   19.284888   15.713660   -4.130926
 0.000568     2.801548   15.970456
 0.56336   19.284888   15.713660   -4.130926
 0.000568     4.533718    9.381440

ELEM      164 ================== LENGTH
=     2.977417

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43662   -0.496834  -10.884825   -1.137968
-9.55E-05    -1.290779    2.873998
 0.57747   -0.553813   -9.926771   -1.137968
-9.55E-05    -0.813567    7.238133
 0.71831   -0.611071   -8.972718   -1.137968
-9.55E-05    -0.336355   11.201344
 0.85916   -0.668330   -8.016665   -1.137968
-9.55E-05     0.140856   14.763629
 1.00000   -0.725588   -7.060611   -1.137968
-9.55E-05     0.618068   17.924989

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43662   -1.706778  -30.100127   -2.698190
-3.31E-05    -3.067943    -7.741328
 0.57747   -1.706778  -30.100127   -2.698190
-3.31E-05    -1.936445    4.881290
 0.71831   -1.706778  -30.100127   -2.698190
-3.31E-05    -0.804947   17.503907
 0.85916   -1.706778  -30.100127   -2.698190
-3.31E-05     0.326550   30.126525
 1.00000   -1.706778  -30.100127   -2.698190
-3.31E-05     1.458048   42.749142

ELEM      165 ================== LENGTH
=     2.977593

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -1.024619   -0.016998   -1.237314
 0.000166    -0.704989   17.503907
 0.14085   -1.082201    0.939128   -1.237314
 0.000166    -0.185161   17.654792
 0.28170   -1.139783    1.895243   -1.237314
 0.000166     0.333766   17.060427
 0.42255   -1.197364    2.851359   -1.237314
 0.000166     0.852694   16.065069
 0.56341   -1.254946    3.807474   -1.237314
 0.000166     1.371621   14.668718

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -3.927513   11.929309   -2.979097
 0.000674    -1.702678   42.611585
 0.14085   -3.927513   11.929309   -2.979097
 0.000674    -0.453250   37.608454
 0.28170   -3.927513   11.929309   -2.979097
 0.000674     0.796178   32.605322
 0.42255   -3.927513   11.929309   -2.979097
 0.000674     2.045606   27.602190
 0.56341   -3.927513   11.929309   -2.979097
 0.000674     3.295034   22.599058
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                          Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                            83

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      166 ================== LENGTH
=     2.977811

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43656   -0.748585  -10.903905   -0.505805
-2.54E-05    -0.578953    4.295773
 0.57742   -0.805849   -9.947626   -0.505805
-2.54E-05    -0.366792    8.668890
 0.71828   -0.863114   -8.991347   -0.505805
-2.54E-05    -0.154631   12.640893
 0.85914   -0.920378   -8.035068   -0.505805
-2.54E-05     0.057531   16.211782
 1.00000   -0.977642   -7.078788   -0.505805
-2.54E-05     0.269692   19.381557

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43656   -2.505379  -28.305895   -1.149063
 5.39E-05    -1.323736   -0.785060
 0.57742   -2.505379  -28.305895   -1.149063
 5.39E-05    -0.841758   11.087929
 0.71828   -2.505379  -28.305895   -1.149063
 5.39E-05    -0.359780   22.960917
 0.85914   -2.505379  -28.305895   -1.149063
 5.39E-05     0.122198   34.833906
 1.00000   -2.505379  -28.305895   -1.149063
 5.39E-05     0.604175   46.706895

ELEM      167 ================== LENGTH
=     2.976879

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -1.233523   -0.274421   -0.607499
 7.03E-05    -0.353019   19.288114
 0.14083   -1.291094    0.681286   -0.607499
 7.03E-05    -0.098343   19.202831
 0.28165   -1.348665    1.636993   -0.607499
 7.03E-05     0.156333   18.716897
 0.42248   -1.406236    2.592700   -0.607499
 7.03E-05     0.411008   17.830311
 0.56330   -1.463807    3.548407   -0.607499
 7.03E-05     0.665684   16.543075

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.649968   13.565676   -1.446387
 0.000263    -0.848105   46.531392
 0.14083   -4.649968   13.565676   -1.446387
 0.000263    -0.241751   40.844392
 0.28165   -4.649968   13.565676   -1.446387
 0.000263     0.364604   35.157391
 0.42248   -4.649968   13.565676   -1.446387
 0.000263     0.970958   29.470391
 0.56330   -4.649968   13.565676   -1.446387
 0.000263     1.577313   23.783390

ELEM      168 ================== LENGTH
=     2.977174

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43666    0.029108  -10.475473    0.155809
 1.23E-07     0.167958    5.290548
 0.57749   -0.028057   -9.519559    0.155809
 1.23E-07     0.102629    9.482442
 0.71833   -0.085312   -8.563645    0.155809
 1.23E-07     0.037299   13.273526
 0.85916   -0.142567   -7.607730    0.155809
 1.23E-07    -0.028030   16.663803
 1.00000   -0.199822   -6.651816    0.155809
 1.23E-07    -0.093360   19.653270
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                          Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                            84

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43666   -0.222782  -27.357766    0.444107
-1.66E-05     0.477027    1.370008
 0.57749   -0.222782  -27.357766    0.444107
-1.66E-05     0.290815   11.840941
 0.71833   -0.222782  -27.357766    0.444107
-1.66E-05     0.104604   24.311874
 0.85916   -0.222782  -27.357766    0.444107
-1.66E-05    -0.081607   35.782808
 1.00000   -0.222782  -27.357766    0.444107
-1.66E-05    -0.267818   47.253741

ELEM      169 ================== LENGTH
=     2.977234

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.455614    0.096328    0.093462
-2.51E-05     0.041983   19.564905
 0.14084   -0.513190    1.052238    0.093462
-2.51E-05     0.002793   19.324103
 0.28168   -0.570766    2.008148    0.093462
-2.51E-05    -0.036396   18.682480
 0.42251   -0.628343    2.964058    0.093462
-2.51E-05    -0.075585   17.640036
 0.56335   -0.685919    3.919968    0.093462
-2.51E-05    -0.114774   16.196771

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -2.362949   14.269031    0.260223
-8.57E-05     0.116053   47.089265
 0.14084   -2.362949   14.269031    0.260223
-8.57E-05     0.006940   41.106139
 0.28168   -2.362949   14.269031    0.260223
-8.57E-05    -0.102174   35.123013
 0.42251   -2.362949   14.269031    0.260223
-8.57E-05    -0.211288   29.139887
 0.56335   -2.362949   14.269031    0.260223
-8.57E-05    -0.320402   23.156761

ELEM      170 ================== LENGTH
=     2.977605

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43659    0.551557  -10.549218    0.742249
 3.07E-05     0.830669    4.239053
 0.57744    0.494296   -9.593057    0.742249
 3.07E-05     0.519369    8.462902
 0.71830    0.437035   -8.636896    0.742249
 3.07E-05     0.208068   12.285735
 0.85915    0.379773   -7.680735    0.742249
 3.07E-05    -0.103232   15.707553
 1.00000    0.322512   -6.724573    0.742249
 3.07E-05    -0.414532   18.728356

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43659    0.983112  -28.787291    1.848332
-4.87E-05     2.066004    -3.657371
 0.57744    0.983112  -28.787291    1.848332
-4.87E-05     1.290811    8.416058
 0.71830    0.983112  -28.787291    1.848332
-4.87E-05     0.515618   20.489486
 0.85915    0.983112  -28.787291    1.848332
-4.87E-05    -0.259575   32.562915
 1.00000    0.983112  -28.787291    1.848332
-4.87E-05    -1.034768   44.636344
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                          Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                            85

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      171 ================== LENGTH
=     2.977665

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.040037   -0.075404    0.712705
-0.000113    0.389827   18.659206
 0.14085   -0.017546    0.880753    0.712705
-0.000113    0.090097   18.490318
 0.28171   -0.075129    1.836910    0.712705
-0.000113   -0.208013   17.920402
 0.42256   -0.132712    2.793067    0.712705
-0.000113   -0.506933   16.949458
 0.56342   -0.190294    3.749223    0.712705
-0.000113   -0.805853   15.577486

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -1.222627   12.612333    1.761169
-0.000422    0.961419   44.521262
 0.14085   -1.222627   12.612333    1.761169
-0.000422    0.222756   39.231443
 0.28171   -1.222627   12.612333    1.761169
-0.000422   -0.515908   33.941625
 0.42256   -1.222627   12.612333    1.761169
-0.000422   -1.254571   28.651806
 0.56342   -1.222627   12.612333    1.761169
-0.000422   -1.993234   23.361988

ELEM      172 ================== LENGTH
=     2.977120

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43666    0.818640  -10.304728    1.117733
 6.60E-05     1.256291    2.739811
 0.57750    0.761386   -9.348844    1.117733
 6.60E-05     0.787648    6.859986
 0.71833    0.704132   -8.392961    1.117733
 6.60E-05     0.319005   10.579378
 0.85917    0.646878   -7.437078    1.117733
 6.60E-05    -0.149638   13.897987
 1.00000    0.589624   -6.481194    1.117733
 6.60E-05    -0.618281   16.815814

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43666    1.592308  -30.792807    2.750047
-6.39E-05     3.088398   -12.138169
 0.57750    1.592308  -30.792807    2.750047
-6.39E-05     1.935358    0.772639
 0.71833    1.592308  -30.792807    2.750047
-6.39E-05     0.782319   13.683448
 0.85917    1.592308  -30.792807    2.750047
-6.39E-05    -0.370721   26.594257
 1.00000    1.592308  -30.792807    2.750047
-6.39E-05    -1.523761   39.505066

ELEM      173 ================== LENGTH
=     2.977276

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.219664    0.562010    1.113627
-0.000147    0.614028   16.792146
 0.14084    0.162087    1.517944    1.113627
-0.000147    0.147063   16.356064
 0.28168    0.104510    2.473878    1.113627
-0.000147   -0.319902   15.919982
 0.42252    0.046933    3.429812    1.113627
-0.000147   -0.786868   14.281375
 0.56336   -0.010644    4.385747    1.113627
-0.000147   -1.253833   12.642769
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                          Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                            86

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.832619   11.712210    2.723513
-0.000583    1.500293   39.501550
 0.14084   -0.832619   11.712210    2.723513
-0.000583    0.358272   34.590397
 0.28168   -0.832619   11.712210    2.723513
-0.000583   -0.783749   29.679244
 0.42252   -0.832619   11.712210    2.723513
-0.000583   -1.925770   24.768091
 0.56336   -0.832619   11.712210    2.723513
-0.000583   -3.067792   19.856938

ELEM      174 ================== LENGTH
=     2.976802

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43671   -0.019974   -6.983901    1.154215
 0.000141    1.301260    5.225058
 0.57753   -0.077223   -6.028200    1.154215
 0.000141    0.817413    7.952397
 0.71836   -0.134472   -5.072499    1.154215
 0.000141    0.333566   10.279106
 0.85918   -0.191721   -4.116797    1.154215
 0.000141   -0.150282   12.205185
 1.00000   -0.248971   -3.161096    1.154215
 0.000141   -0.634129   13.730633

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43671    1.852252  -27.914355    2.866763
 0.000110     3.224350   -15.320131
 0.57753    1.852252  -27.914355    2.866763
 0.000110     2.022501    -3.618421
 0.71836    1.852252  -27.914355    2.866763
 0.000110     0.820853    8.083289
 0.85918    1.852252  -27.914355    2.866763
 0.000110    -0.380896   19.784999
 1.00000    1.852252  -27.914355    2.866763
 0.000110    -1.582644   31.486709

ELEM      175 ================== LENGTH
=     2.977856

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.729085    4.335268    1.184691
-0.000140    0.656325   13.765879
 0.14086   -0.786670    5.291533    1.184691
-0.000140    0.153390   11.746831
 0.28172   -0.844256    6.247799    1.184691
-0.000140   -0.337546    9.326664
 0.42258   -0.901842    7.204065    1.184691
-0.000140   -0.834481    6.505378
 0.56344   -0.959427    8.160331    1.184691
-0.000140   -1.331416    3.282973

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.819485   15.440974    2.869520
-0.000634    1.584426   31.623225
 0.14086   -0.819485   15.440974    2.869520
-0.000634    0.380766   25.146293
 0.28172   -0.819485   15.440974    2.869520
-0.000634   -0.822895   18.669361
 0.42258   -0.819485   15.440974    2.869520
-0.000634   -2.026555   12.192429
 0.56344   -0.819485   15.440974    2.869520
-0.000634   -3.230215    5.715498
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                          Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                            87

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      176 ================== LENGTH
=     2.977458

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43661   -3.756927    1.792726    0.802122
 0.000124     0.913791   16.516042
 0.57746   -3.814186    2.748802    0.802122
 0.000124     0.577410   15.563764
 0.71831   -3.871445    3.704879    0.802122
 0.000124     0.241028   14.210542
 0.85915   -3.928704    4.660955    0.802122
 0.000124    -0.095353   12.456376
 1.00000   -3.985963    5.617032    0.802122
 0.000124    -0.431734   10.301265

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43661    1.232221  -15.962020    2.085329
-1.73E-05     2.357360    -2.798498
 0.57746    1.232221  -15.962020    2.085329
-1.73E-05     1.482847    3.898855
 0.71831    1.232221  -15.962020    2.085329
-1.73E-05     0.608334   10.592758
 0.85915    1.232221  -15.962020    2.085329
-1.73E-05    -0.266176   17.286662
 1.00000    1.232221  -15.962020    2.085329
-1.73E-05    -1.140691   23.980565

ELEM      177 ================== LENGTH
=     2.977518

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.594585   13.714313    0.880101
-3.09E-05     0.488101   10.393494
 0.14085   -4.652166   14.670385    0.880101
-3.09E-05     0.119005    4.441515
 0.28170   -4.709746   15.626457    0.880101
-3.09E-05    -0.250091   -1.911421
 0.42255   -4.767327   16.582530    0.880101
-3.09E-05    -0.619187   -8.665314
 0.56339   -4.824907   17.538602    0.880101
-3.09E-05    -0.988283   -15.820164

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -1.818294   30.202507    2.111404
-0.000174     1.158544   24.253149
 0.14084   -1.818294   30.202507    2.111404
-0.000174     0.273064   11.586840
 0.28170   -1.818294   30.202507    2.111404
-0.000174    -0.612416   -1.079469
 0.42255   -1.818294   30.202507    2.111404
-0.000174    -1.497895   -13.745778
 0.56339   -1.818294   30.202507    2.111404
-0.000174    -2.383375   -26.412087

ELEM      178 ================== LENGTH
=     2.977195

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43665   -7.534757    8.098239    0.185797
 0.000101     0.198108   25.690711
 0.57749   -7.592013    9.054165    0.185797
 0.000101     0.120203   22.094719
 0.71833   -7.649268   10.010092    0.185797
 0.000101     0.042299   18.097909
 0.85916   -7.706523   10.966018    0.185797
 0.000101    -0.035606   13.700280
 1.00000   -7.763778   11.921945    0.185797
 0.000101    -0.113510    8.901832
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                          Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                            88

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.43665    0.006261   -2.806969    0.590551
 0.000617     0.629831   14.360991
 0.57749    0.006261   -2.806969    0.590551
 0.000617     0.382214   15.537949
 0.71833    0.006261   -2.806969    0.590551
 0.000617     0.134596   16.714908
 0.85916    0.006261   -2.806969    0.590551
 0.000617    -0.113021   17.891867
 1.00000    0.006261   -2.806969    0.590551
 0.000617    -0.360639   19.068825

ELEM      179 ================== LENGTH
=     2.977337

LOAD     STEEL --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.559998   22.391482    0.170505
-0.000149     0.101713    9.030028
 0.14084   -8.675154   23.347451    0.170505
-0.000149     0.030214   -0.559921
 0.28168   -8.675154   24.303419    0.170505
-0.000149    -0.041284   -10.550740
 0.42253   -8.732732   25.259388    0.170505
-0.000149    -0.112783   -20.942430
 0.56337   -8.790309   26.215357    0.170505
-0.000149    -0.184282   -31.734990

LOAD     CONC --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -3.040453   42.094130    0.565743
-0.000736     0.339815   19.397155
```

```
 0.14084    -3.040453    42.094130     0.565743
-0.000736    0.102580     1.745648
 0.28168    -3.040453    42.094130     0.565743
-0.000736   -0.134656   -15.905860
 0.42253    -3.040453    42.094130     0.565743
-0.000736   -0.371891   -33.557368
 0.56337    -3.040453    42.094130     0.565743
-0.000736   -0.609127   -51.208875

 ELEM      180 ================== LENGTH
=     2.977317

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43663    -4.853159    4.567277    -0.324537
-0.000252   -0.362997   19.350096
 0.57748    -4.910416    5.523272    -0.324537
-0.000252   -0.226910   17.234466
 0.71832    -4.967673    6.479268    -0.324537
-0.000252   -0.090822   14.717958
 0.85916    -5.024930    7.435264    -0.324537
-0.000252    0.045266   11.800574
 1.00000    -5.082187    8.391260    -0.324537
-0.000252    0.181354    8.482313

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43663    0.546124    -7.699703    -0.666632
-0.000780   -0.738129     4.438698
 0.57748    0.546124    -7.699703    -0.666632
-0.000780   -0.458591     7.667407
 0.71832    0.546124    -7.699703    -0.666632
-0.000780   -0.179053    10.896117
 0.85916    0.546124    -7.699703    -0.666632
-0.000780    0.100485    14.124827
 1.00000    0.546124    -7.699703    -0.666632
-0.000780    0.380023    17.353537
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      89

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      181 ================== LENGTH
=     2.977454

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -5.540885   14.517569    -0.412527
 9.45E-05   -0.246500    8.565691
 0.14085    -5.598464   15.473604    -0.412527
 9.45E-05   -0.073501    2.277088
 0.28169    -5.656044   16.429640    -0.412527
 9.45E-05    0.099498   -4.412441
 0.42254    -5.713623   17.385676    -0.412527
 9.45E-05    0.272497   -11.102096
 0.56339    -5.771203   18.341712    -0.412527
 9.45E-05    0.445496   -18.994279

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -1.855259    28.269248    -0.733773
 0.000701   -0.433491    17.581501
 0.14085    -1.855259    28.269248    -0.733773
 0.000701   -0.125773     5.726409
 0.28169    -1.855259    28.269248    -0.733773
 0.000701    0.181945    -6.128684
 0.42254    -1.855259    28.269248    -0.733773
 0.000701    0.489662   -17.983777
 0.56339    -1.855259    28.269248    -0.733773
 0.000701    0.797380   -29.838869

 ELEM      182 ================== LENGTH
=     2.977259

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43664    -0.503642    -5.589770    -0.744917
-0.000116   -0.848283     6.554834
 0.57748    -0.560899    -4.633606    -0.744917
-0.000116   -0.535928     8.698282
 0.71832    -0.618154    -3.677845    -0.744917
-0.000116   -0.223573    10.440881
 0.85916    -0.675410    -2.721883    -0.744917
-0.000116    0.088782    11.782631
 1.00000    -0.732666    -1.765920    -0.744917
-0.000116    0.401136    12.723532

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43664    1.849667    -27.198944    -1.646694
 6.12E-05   -1.872350    -16.276202
 0.57748    1.849667    -27.198944    -1.646694
 6.12E-05   -1.181867    -4.871287
 0.71832    1.849667    -27.198944    -1.646694
 6.12E-05   -0.491384     6.533629
 0.85916    1.849667    -27.198944    -1.646694
 6.12E-05    0.199099    17.938545
 1.00000    1.849667    -27.198944    -1.646694
 6.12E-05    0.889582    29.343461

 ELEM      183 ================== LENGTH
=     2.977319

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -1.259115    5.938633    -0.803631
 2.30E-05   -0.445534   12.784890
 0.14084    -1.316693    6.894592    -0.803631
 2.30E-05   -0.190547   10.094215
 0.28168    -1.374270    7.850550    -0.803631
 2.30E-05    0.228439    7.002677
 0.42252    -1.431848    8.806508    -0.803631
 2.30E-05    0.565425    3.510278
 0.56337    -1.489426    9.762467    -0.803631
 2.30E-05    0.902411   -0.382983
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      90

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -1.011482    17.921399    -1.719222
 0.000187   -0.948437    29.555350
 0.14084    -1.011482    17.921399    -1.719222
 0.000187   -0.227516    22.040376
 0.28168    -1.011482    17.921399    -1.719222
 0.000187    0.493405    14.525402
 0.42252    -1.011482    17.921399    -1.719222
 0.000187    1.214325     7.010428
 0.56337    -1.011482    17.921399    -1.719222
 0.000187    1.935246    -0.504546

 ELEM      184 ================== LENGTH
=     2.978195

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43651    0.768033   -10.003319    -0.862255
-0.000125   -0.975062     2.436738
 0.57738    0.710762    -9.046821    -0.862255
-0.000125   -0.613305     6.432968
 0.71825    0.653492    -8.090323    -0.862255
-0.000125   -0.251547    10.027902
 0.85913    0.596222    -7.133824    -0.862255
-0.000125    0.110211    13.221537
 1.00000    0.538952    -6.177326    -0.862255
-0.000125    0.471969    16.013875

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43651    1.670668    -31.175732    -1.930205
-9.31E-05   -2.185290    -15.276564
 0.57738    1.670668    -31.175732    -1.930205
-9.31E-05   -1.375475    -2.196826
 0.71825    1.670668    -31.175732    -1.930205
-9.31E-05   -0.565659    10.882911
 0.85913    1.670668    -31.175732    -1.930205
-9.31E-05    0.244156    23.962648
 1.00000    1.670668    -31.175732    -1.930205
-9.31E-05    1.053971    37.042386

 ELEM      185 ================== LENGTH
=     2.977259

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.111014     1.193133    -0.892408
 0.000132   -0.495562    16.022931
 0.14084    0.053435     2.149057    -0.892408
 0.000132   -0.121362    15.322216
 0.28168    -0.004142    3.104981    -0.892408
 0.000132    0.252837    14.220669
 0.42252    -0.061719    4.060906    -0.892408
 0.000132    0.627037    12.718288
 0.56336    -0.119295    5.016830    -0.892408
 0.000132    1.001237    10.815074

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.889388    11.884330    -2.001637
 0.000563   -1.111635    37.121939
 0.14084    -0.889388    11.884330    -2.001637
 0.000563   -0.272319    32.138665
 0.28168    -0.889388    11.884330    -2.001637
 0.000563    0.566997    27.155391
 0.42252    -0.889388    11.884330    -2.001637
 0.000563    1.406313    22.172117
 0.56336    -0.889388    11.884330    -2.001637
 0.000563    2.245629    17.188843
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      91

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      186 ================== LENGTH
=     2.977215

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43665    0.660931    -10.592091    -0.666576
-2.39E-05   -0.753118     3.583846
 0.57749    0.603676    -9.636153     -0.666576
-2.39E-05   -0.473621     7.824735
 0.71832    0.546420    -8.680215     -0.666576
-2.39E-05   -0.194123    11.664796
 0.85916    0.489165    -7.724278     -0.666576
-2.39E-05    0.085375    15.104029
 1.00000    0.431909    -6.768340     -0.666576
-2.39E-05    0.364872    18.142433

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43665    1.222015    -29.482321    -1.501113
 0.000109   -1.699370    -6.664163
 0.57749    1.222015    -29.482321    -1.501113
 0.000109   -1.069947    5.697885
 0.71832    1.222015    -29.482321    -1.501113
 0.000109   -0.440525    18.059932
 0.85916    1.222015    -29.482321    -1.501113
 0.000109    0.188897    30.421980
 1.00000    1.222015    -29.482321    -1.501113
 0.000109    0.818320    42.784028

 ELEM      187 ================== LENGTH
=     2.977338

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.105725    -0.058640     -0.682613
 7.08E-05   -0.378255    18.107176
 0.14084    0.048147    0.897330      -0.682613
 7.08E-05   -0.092012    17.931331
 0.28168    -0.009431    1.853299      -0.682613
 7.08E-05    0.194231    17.354614
 0.42253    -0.067009    2.809268      -0.682613
 7.08E-05    0.480474    16.377926
 0.56337    -0.124586    3.765238      -0.682613
 7.08E-05    0.766717    14.998568

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -1.106835    12.186633    -1.553374
 0.000319   -0.861645    42.759898
 0.14084    -1.106835    12.186633    -1.553374
 0.000319   -0.210262    37.649623
 0.28168    -1.106835    12.186633    -1.553374
 0.000319    0.441122    32.539347
 0.42253    -1.106835    12.186633    -1.553374
 0.000319    1.092505    27.429072
 0.56337    -1.106835    12.186633    -1.553374
 0.000319    1.743889    22.318797

 ELEM      188 ================== LENGTH
=     2.977307

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43664    0.448029    -10.412121    -0.241509
-2.06E-05   -0.272587     5.081354
 0.57748    0.390772    -9.456131     -0.241509
-2.06E-05   -0.171316     9.206999
 0.71832    0.333515    -8.500141     -0.241509
-2.06E-05   -0.070045    12.971772
 0.85916    0.276258    -7.544150     -0.241509
-2.06E-05    0.031226    16.335672
 1.00000    0.219001    -6.588160     -0.241509
-2.06E-05    0.132497    19.298700
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      92

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43664    0.962567    -27.928623    -0.527447
 2.56E-06   -0.597279    -1.008477
 0.57748    0.962567    -27.928623    -0.527447
 2.56E-06   -0.376107    10.702742
 0.71832    0.962567    -27.928623    -0.527447
 2.56E-06   -0.154934    22.413961
 0.85916    0.962567    -27.928623    -0.527447
 2.56E-06    0.066239    34.125180
 1.00000    0.962567    -27.928623    -0.527447
 2.56E-06    0.287412    45.836399

 ELEM      189 ================== LENGTH
=     2.977425

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.071703    0.107821     -0.248697
 4.80E-05   -0.138528    19.240508
 0.14085    -0.129282    1.063840     -0.248697
 4.80E-05   -0.034236    18.994836
 0.28169    -0.186861    2.019859     -0.248697
 4.80E-05    0.070057    18.748252
 0.42254    -0.244440    2.975878     -0.248697
 4.80E-05    0.174350    17.300756
 0.56338    -0.302019    3.931897     -0.248697
 4.80E-05    0.278643    15.852346

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -1.268637    13.510827    -0.553805
 0.000172   -0.309304    45.754939
 0.14085    -1.268637    13.510827    -0.553805
 0.000172   -0.070163    40.089090
 0.28169    -1.268637    13.510827    -0.553805
 0.000172    0.155179    34.423240
 0.42254    -1.268637    13.510827    -0.553805
 0.000172    0.387420    28.757391
 0.56338    -1.268637    13.510827    -0.553805
 0.000172    0.619662    23.091541

 ELEM      190 ================== LENGTH
=     2.977528

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43660    0.439450    -10.406290    0.258617
 2.93E-05   0.290783     5.038018
 0.57745    0.382189    -9.450173     0.258617
 2.93E-05   0.182323     9.201740
 0.71830    0.324929    -8.494057     0.258617
 2.93E-05   0.073864     12.964483
 0.85915    0.267669    -7.537940     0.258617
 2.93E-05   -0.034595    16.326248
 1.00000    0.210409    -6.581823     0.258617
 2.93E-05   -0.143054    19.287035

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43660    0.943372    -27.914367    0.627779
 1.86E-05   0.705634    -0.983007
 0.57745    0.943372    -27.914367    0.627779
 1.86E-05   0.442354    10.723775
 0.71830    0.943372    -27.914367    0.627779
 1.86E-05   0.179075    22.430557
 0.85915    0.943372    -27.914367    0.627779
 1.86E-05   -0.084204    34.137339
 1.00000    0.943372    -27.914367    0.627779
 1.86E-05   -0.347484    45.844121
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      93

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      191 ================== LENGTH
=     2.976591

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.079283    0.116405     0.262006
-4.12E-05   0.145673     19.229942
 0.14081    -0.136849    1.071947     0.262006
-4.12E-05   0.035854     18.980895
 0.28163    -0.194416    2.027489     0.262006
-4.12E-05   -0.073965    18.731334
 0.42244    -0.251982    2.983031     0.262006
-4.12E-05   -0.183784    17.281259
 0.56326    -0.309549    3.938573     0.262006
-4.12E-05   -0.293603    15.830672

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -1.286466    13.538202    0.633878
-0.000160   0.351800     45.763472
 0.14081    -1.286466    13.538202    0.633878
-0.000160   0.096112     40.088965
 0.28163    -1.286466    13.538202    0.633878
-0.000160   -0.179577    34.414459
 0.42244    -1.286466    13.538202    0.633878
-0.000160   -0.445265    28.739952
 0.56326    -1.286466    13.538202    0.633878
-0.000160   -0.710953    23.065445

 ELEM      192 ================== LENGTH
=     2.976770

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43672    0.640830    -10.489174    0.695523
 3.36E-05   0.784196     3.676165
 0.57754    0.583581    -9.533492     0.695523
 3.36E-05   0.492638     7.872839
 0.71836    0.526332    -8.577809     0.695523
 3.36E-05   0.201080     11.668899
 0.85918    0.469083    -7.622126     0.695523
 3.36E-05   -0.090478    15.064344
 1.00000    0.411835    -6.666443     0.695523
 3.36E-05   -0.382036    18.059174

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43672    1.188264    -29.237436    1.626311
-8.28E-05   1.834498     -6.328865
 0.57754    1.188264    -29.237436    1.626311
-8.28E-05   1.152761     5.927246
 0.71836    1.188264    -29.237436    1.626311
-8.28E-05   0.471024     18.183356
 0.85918    1.188264    -29.237436    1.626311
-8.28E-05   -0.210714    30.439467
 1.00000    1.188264    -29.237436    1.626311
-8.28E-05   -0.892451    42.695578

 ELEM      193 ================== LENGTH
=     2.977779

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.092423    -0.011398     0.705665
-6.84E-05   0.390834     18.019047
 0.14086    0.034839    0.944824      0.705665
-6.84E-05   0.094847     17.823287
 0.28172    -0.022745    1.901046      0.705665
-6.84E-05   -0.201141    17.226444
 0.42257    -0.080330    2.857267      0.705665
-6.84E-05   -0.497128    16.228520
 0.56343    -0.137914    3.813489      0.705665
-6.84E-05   -0.793116    14.829513
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      94

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -1.125256    12.294021    1.651965
-0.000319   0.914298     42.662919
 0.14086    -1.125256    12.294021    1.651965
-0.000319   0.221390     37.506257
 0.28172    -1.125256    12.294021    1.651965
-0.000319   -0.471518    32.349595
 0.42257    -1.125256    12.294021    1.651965
-0.000319   -1.164426    27.192934
 0.56343    -1.125256    12.294021    1.651965
-0.000319   -1.857334    22.036272

 ELEM      194 ================== LENGTH
=     2.978081

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43652    0.726584    -9.837258     0.909610
 0.000129   1.027028     2.634677
 0.57739    0.669316    -8.880824     0.909610
 0.000129   0.645428     6.560985
 0.71826    0.612047    -7.924391     0.909610
 0.000129   0.263829     10.086049
 0.85913    0.554779    -6.967957     0.909610
 0.000129   -0.117771    13.209871
 1.00000    0.497510    -6.011524     0.909610
 0.000129   -0.499371    15.932449

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43652    1.637810    -30.798218    2.093352
 9.63E-05   2.363227     -14.583271
 0.57739    1.637810    -30.798218    2.093352
 9.63E-05   1.485023     -1.662793
 0.71826    1.637810    -30.798218    2.093352
 9.63E-05   0.606819     11.257685
 0.85913    1.637810    -30.798218    2.093352
 9.63E-05   -0.271384    24.178163
 1.00000    1.637810    -30.798218    2.093352
 9.63E-05   -1.149588    37.098641

 ELEM      195 ================== LENGTH
=     2.977144

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.072885    1.383490     0.935135
-0.000129   0.518982    15.937184
 0.14083    0.015310    2.339348     0.935135
-0.000129   0.126893    15.156717
 0.28167    -0.042265   3.295206     0.935135
-0.000129   -0.265196   13.975472
 0.42250    -0.099840   4.251065     0.935135
-0.000129   -0.657285   12.393449
 0.56334    -0.157414   5.206923     0.935135
-0.000129   -1.049374   10.410649

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.920400    12.393283    2.138348
-0.000551   1.184886     37.169411
 0.14083    -0.920400    12.393283    2.138348
-0.000551   0.288307     31.973081
 0.28167    -0.920400    12.393283    2.138348
-0.000551   -0.608273    26.776751
 0.42250    -0.920400    12.393283    2.138348
-0.000551   -1.504852    21.580422
 0.56334    -0.920400    12.393283    2.138348
-0.000551   -2.401431    16.384092
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                    Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                      95

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      196 ================== LENGTH
=     2.977474

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43661    -0.530672    -5.280209    0.816502
 0.000128   0.927400     6.911398
 0.57746    -0.587932    -4.324123    0.816502
 0.000128   0.584985     8.925276
 0.71831    -0.645191    -3.368037    0.816502
 0.000128   0.242570     10.538201
 0.85915    -0.702450    -2.411951    0.816502
 0.000128   -0.099845    11.750174
 1.00000    -0.759710    -1.455865    0.816502
 0.000128   -0.442260    12.561194

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.43661    1.905928    -26.237143    1.859020
-3.02E-06   2.105066     -14.812351
 0.57746    1.905928    -26.237143    1.859020
-3.02E-06   1.325452     -3.809318
 0.71831    1.905928    -26.237143    1.859020
-3.02E-06   0.545837     7.193715
 0.85915    1.905928    -26.237143    1.859020
-3.02E-06   -0.233778    18.196748
 1.00000    1.905928    -26.237143    1.859020
-3.02E-06   -1.013392    29.199781

 ELEM      197 ================== LENGTH
=     2.977534

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -1.274537    6.139648     0.868298
-3.85E-05   0.480947     12.614072
 0.14085    -1.332118    7.095730     0.868298
-3.85E-05   0.116797     9.838722
 0.28170    -1.389698    8.051812     0.868298
-3.85E-05   -0.247352    6.662407
 0.42255    -1.447279    9.007893     0.868298
-3.85E-05   -0.611502    3.085127
 0.56340    -1.504860    9.963975     0.868298
-3.85E-05   -0.975652    -0.893117

 LOAD    CONC -------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.914439    18.356020    1.896944
-0.000252   1.043417     29.389391
 0.14085    -0.914439    18.356020    1.896944
-0.000252   0.247870     21.681178
 0.28170    -0.914439    18.356020    1.896944
-0.000252   -0.547677    13.992965
 0.42255    -0.914439    18.356020    1.896944
-0.000252   -1.343224    6.294752
 0.56340    -0.914439    18.356020    1.896944
-0.000252   -2.138771    -1.403461

 ELEM      198 ================== LENGTH
=     2.976943

 LOAD    STEEL ------------------

 REL DIST          P           V2          V3
```

T	M2	M3	
0.43669	-4.623800	4.294079	0.434750
0.000217	0.480471	18.943417	
0.57752	-4.681051	5.249861	0.434750
0.000217	0.298209	16.942836	
0.71834	-4.738303	6.205643	0.434750
0.000217	0.115946	14.541558	
0.85917	-4.795554	7.161425	0.434750
0.000217	-0.066316	11.739582	
1.00000	-4.852805	8.117207	0.434750
0.000217	-0.248579	8.536908	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43669	1.025257	-8.568798	0.959572
0.000592	1.048258	4.296738	
0.57752	1.025257	-8.568798	0.959572
0.000592	0.645971	7.889084	
0.71834	1.025257	-8.568798	0.959572
0.000592	0.243684	11.481430	
0.85917	1.025257	-8.568798	0.959572
0.000592	-0.158603	15.073776	
1.00000	1.025257	-8.568798	0.959572
0.000592	-0.560889	18.666122	

ELEM 199 ========== LENGTH = 2.977036

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.312657	14.742394	0.509372
-8.10E-05	0.303128	8.622609	
0.14083	-5.370233	15.681190	0.509372
-8.10E-05	0.089569	2.241365	
0.28166	-5.427804	16.653987	0.509372
-8.10E-05	-0.123989	-4.540605	
0.42249	-5.485377	17.609783	0.509372
-8.10E-05	-0.337548	-11.723301	
0.56332	-5.542951	18.565580	0.509372
-8.10E-05	-0.551107	-19.306723	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.472075	30.241067	0.980806
-0.000560	0.570237	18.907123	
0.14083	-1.472075	30.241067	0.980806
-0.000560	0.165125	6.228285	
0.28166	-1.472075	30.241067	0.980806
-0.000560	-0.246086	-6.450553	
0.42249	-1.472075	30.241067	0.980806
-0.000560	-0.657298	-19.129391	
0.56332	-1.472075	30.241067	0.980806
-0.000560	-1.068510	-31.808229	

ELEM 200 ========== LENGTH = 2.977628

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-6.888476	7.806269	-0.052180
8.56E-07	-0.055090	24.280617	
0.57744	-6.945737	8.762443	-0.052180
8.56E-07	-0.033206	20.806100	
0.71829	-7.002999	9.718617	-0.052180
8.56E-07	-0.011321	16.930557	
0.85915	-7.060261	10.674791	-0.052180
8.56E-07	0.010564	12.653987	
1.00000	-7.117522	11.630966	-0.052180
8.56E-07	0.032449	7.976392	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.513490	1.269367	-0.259710
8.84E-07	-0.275190	16.890241	
0.57744	0.513490	1.269367	-0.259710
8.84E-07	-0.166266	16.357860	
0.71829	0.513490	1.269367	-0.259710
8.84E-07	-0.057342	15.825479	
0.85915	0.513490	1.269367	-0.259710
8.84E-07	0.051583	15.293097	
1.00000	0.513490	1.269367	-0.259710
8.84E-07	0.160507	14.760716	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 201 ========== LENGTH = 2.977688

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.867011	20.338534	-0.055678
6.42E-06	-0.035345	8.065469	
0.14085	-7.924594	21.294704	-0.055678
6.42E-06	-0.011992	-0.665479	
0.28171	-7.982178	22.250873	-0.055678
6.42E-06	0.011361	-9.797465	
0.42256	-8.039761	23.207043	-0.055678
6.42E-06	0.034713	-19.330491	
0.56342	-8.097344	24.163213	-0.055678
6.42E-06	0.058066	-29.264554	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.091205	35.886411	-0.285805
3.01E-05	-0.182180	14.977421	
0.14085	-2.091205	35.886411	-0.285805
3.01E-05	-0.062307	-0.074129	
0.28171	-2.091205	35.886411	-0.285805
3.01E-05	0.057565	-15.125680	
0.42256	-2.091205	35.886411	-0.285805
3.01E-05	0.177438	-30.177230	
0.56342	-2.091205	35.886411	-0.285805
3.01E-05	0.297311	-45.228780	

ELEM 202 ========== LENGTH = 2.977323

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-4.628145	4.336384	-0.533184
-0.000215	-0.587737	19.025352	
0.57748	-4.685402	5.292383	-0.533184
-0.000215	-0.364157	17.006532	
0.71832	-4.742659	6.248383	-0.533184
-0.000215	-0.140576	14.586833	
0.85916	-4.799916	7.204383	-0.533184
-0.000215	0.083004	11.766253	
1.00000	-4.857173	8.160382	-0.533184
-0.000215	0.306585	8.544793	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.997875	-8.584210	-1.447748
-0.000589	-1.582193	4.326780	
0.57748	0.997875	-8.584210	-1.447748
-0.000589	-0.975108	7.926404	
0.71832	0.997875	-8.584210	-1.447748
-0.000589	-0.368023	11.526028	
0.85916	0.997875	-8.584210	-1.447748
-0.000589	0.239063	15.125652	
1.00000	0.997875	-8.584210	-1.447748
-0.000589	0.846148	18.725276	

ELEM 203 ========== LENGTH = 2.977409

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.299329	14.799838	-0.615127
9.38E-05	-0.367799	8.631318	
0.14084	-5.356977	15.755848	-0.615127
9.38E-05	-0.109244	2.224519	
0.28169	-5.414486	16.711858	-0.615127
9.38E-05	0.148711	-4.583185	
0.42253	-5.472065	17.667868	-0.615127
9.38E-05	0.406666	-11.791794	
0.56338	-5.529644	18.623879	-0.615127
9.38E-05	0.664621	-19.401308	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.408056	30.301310	-1.517602
0.000625	-0.901958	18.967202	
0.14084	-1.408056	30.301310	-1.517602
0.000625	-0.265549	6.260278	
0.28169	-1.408056	30.301310	-1.517602
0.000625	0.370861	-6.446647	
0.42253	-1.408056	30.301310	-1.517602
0.000625	1.007271	-19.153571	
0.56338	-1.408056	30.301310	-1.517602
0.000625	1.643681	-31.860496	

ELEM 204 ========== LENGTH = 2.976994

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-0.523959	-5.252715	-0.914219
-0.000122	-1.037271	6.902410	
0.57751	-0.581211	-4.296904	-0.914219
-0.000122	-0.653986	8.902142	
0.71834	-0.638463	-3.341092	-0.914219
-0.000122	-0.270701	10.503251	
0.85917	-0.695715	-2.385281	-0.914219
-0.000122	0.112584	11.703638	
1.00000	-0.752968	-1.429470	-0.914219
-0.000122	0.495868	12.503303	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43668	1.941237	-26.315930	-2.314638
1.99E-05	-2.620206	-15.034967	
0.57751	1.941237	-26.315930	-2.314638
1.99E-05	-1.649797	-4.002052	
0.71834	1.941237	-26.315930	-2.314638
1.99E-05	-0.679389	7.030863	
0.85917	1.941237	-26.315930	-2.314638
1.99E-05	0.291020	18.063778	
1.00000	1.941237	-26.315930	-2.314638
1.99E-05	1.261428	29.096693	

ELEM 205 ========== LENGTH = 2.977033

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.268730	6.131021	-0.973728
5.03E-05	-0.540897	12.555138	
0.14083	-1.326303	7.088116	-0.973728
5.03E-05	-0.132654	9.784294	
0.28166	-1.383876	8.042611	-0.973728
5.03E-05	0.275590	6.612725	
0.42249	-1.441449	8.998406	-0.973728
5.03E-05	0.663833	3.040432	
0.56332	-1.499022	9.954201	-0.973728
5.03E-05	1.092077	-0.932587	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.878413	18.210921	-2.397713
0.000314	-1.328861	29.278640	
0.14083	-0.878413	18.210921	-2.397713
0.000314	-0.323600	21.643561	
0.28166	-0.878413	18.210921	-2.397713
0.000314	0.681661	14.008481	
0.42249	-0.878413	18.210921	-2.397713
0.000314	1.686922	6.373402	
0.56332	-0.878413	18.210921	-2.397713
0.000314	2.692183	-1.261677	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 206 ========== LENGTH = 2.977713

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.753615	-9.990874	-1.016362
-0.000143	-1.147245	2.446860	
0.57743	0.696352	-9.034651	-1.016362
-0.000143	-0.720954	6.436780	
0.71829	0.639089	-8.078429	-1.016362
-0.000143	-0.294663	10.025634	
0.85914	0.581827	-7.122206	-1.016362
-0.000143	0.131628	13.213421	
1.00000	0.524564	-6.165984	-1.016362
-0.000143	0.557919	16.000141	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	1.707334	-31.068460	-2.536080
-0.000129	-2.863899	-14.754545	
0.57743	1.707334	-31.068460	-2.536080
-0.000129	-1.800195	-1.723559	
0.71829	1.707334	-31.068460	-2.536080
-0.000129	-0.736492	11.307427	
0.85914	1.707334	-31.068460	-2.536080
-0.000129	0.327212	24.338414	
1.00000	1.707334	-31.068460	-2.536080
-0.000129	1.390915	37.369400	

ELEM 207 ========== LENGTH = 2.976758

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.080386	1.532174	-1.050204
0.000162	-0.584331	16.003927	
0.14082	0.022817	2.487812	-1.050204
0.000162	-0.144096	15.161359	
0.28164	-0.034752	3.443449	-1.050204
0.000162	0.296138	13.918198	
0.42246	-0.092323	4.399087	-1.050204
0.000162	0.736373	12.274443	
0.56328	-0.149891	5.354725	-1.050204
0.000162	1.176607	10.230094	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.893819	12.989458	-2.623624
0.000669	-1.461251	37.429051	
0.14082	-0.893819	12.989458	-2.623624
0.000669	-0.361456	31.984005	
0.28164	-0.893819	12.989458	-2.623624
0.000669	0.738340	26.538959	
0.42246	-0.893819	12.989458	-2.623624
0.000669	1.838136	21.093913	
0.56328	-0.893819	12.989458	-2.623624
0.000669	2.937932	15.648868	

ELEM 208 ========== LENGTH = 2.977509

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.646127	-10.486277	-0.798691
-1.39E-05	-0.901982	3.612753	
0.57745	0.588867	-9.530171	-0.798691
-1.39E-05	-0.567029	7.809973	
0.71830	0.531608	-8.574065	-0.798691
-1.39E-05	-0.232076	11.606224	
0.85915	0.474348	-7.617960	-0.798691
-1.39E-05	0.102876	15.001547	
1.00000	0.417088	-6.661854	-0.798691
-1.39E-05	0.437829	17.995820	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.159466	-28.885950	-1.993159
0.000145	-2.253547	-5.932932	
0.57745	1.159466	-28.885950	-1.993159
0.000145	-1.417662	6.181175	
0.71830	1.159466	-28.885950	-1.993159
0.000145	-0.581777	18.295282	
0.85915	1.159466	-28.885950	-1.993159
0.000145	0.254108	30.409389	
1.00000	1.159466	-28.885950	-1.993159
0.000145	1.089993	42.523495	

ELEM 209 ========== LENGTH = 2.977568

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.107423	-0.098584	-0.817647
6.96E-05	-0.453546	17.946807	
0.14085	0.049842	0.857518	-0.817647
6.96E-05	-0.110631	17.787662	
0.28170	-0.007739	1.813619	-0.817647
6.96E-05	0.232283	17.227535	
0.42255	-0.065321	2.769720	-0.817647
6.96E-05	0.575198	16.266427	
0.56340	-0.122902	3.725821	-0.817647
6.96E-05	0.918113	14.904338	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.097965	12.218454	-2.056591
0.000340	-1.142365	42.452588	
0.14085	-1.097965	12.218454	-2.056591
0.000340	-0.279847	37.328265	
0.28170	-1.097965	12.218454	-2.056591
0.000340	0.582671	32.203941	
0.42255	-1.097965	12.218454	-2.056591
0.000340	1.445190	27.079618	
0.56340	-1.097965	12.218454	-2.056591
0.000340	2.307708	21.955294	

ELEM 210 ========== LENGTH = 2.977386

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43662	0.433545	-10.372281	-0.328292
-3.00E-05	-0.369648	5.073487	
0.57747	0.376287	-9.416245	-0.328292
-3.00E-05	-0.231980	9.222612	
0.71831	0.319029	-8.460210	-0.328292
-3.00E-05	-0.094312	12.970827	
0.85916	0.261771	-7.504174	-0.328292
-3.00E-05	0.043356	16.318132	
1.00000	0.204513	-6.548138	-0.328292
-3.00E-05	0.181024	19.264527	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43662	0.876666	-27.765924	-0.817574
-2.04E-05	-0.921486	-0.779587	
0.57747	0.876666	-27.765924	-0.817574
-2.04E-05	-0.578639	10.863957	
0.71831	0.876666	-27.765924	-0.817574
-2.04E-05	-0.235792	22.507502	
0.85916	0.876666	-27.765924	-0.817574
-2.04E-05	0.107055	34.151047	
1.00000	0.876666	-27.765924	-0.817574
-2.04E-05	0.449902	45.794592	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 211 ========== LENGTH = 2.977440

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.070517	0.081872	-0.336213
6.21E-05	-0.187625	19.194483	
0.14085	-0.128096	1.037900	-0.336213
6.21E-05	-0.046631	18.959689	
0.28169	-0.185675	1.993927	-0.336213
6.21E-05	0.094363	18.323976	
0.42254	-0.243255	2.949955	-0.336213
6.21E-05	0.235358	17.287343	
0.56338	-0.300834	3.905983	-0.336213
6.21E-05	0.376352	15.849789	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.284150	13.361337	-0.844801
0.000219	-0.472360	45.664930	
0.14085	-1.284150	13.361337	-0.844801
0.000219	-0.118084	40.061719	
0.28169	-1.284150	13.361337	-0.844801
0.000219	0.236191	34.458509	
0.42254	-1.284150	13.361337	-0.844801
0.000219	0.590467	28.855299	
0.56338	-1.284150	13.361337	-0.844801
0.000219	0.944743	23.252089	

ELEM 212 ========== LENGTH = 2.977327

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.420197	-10.387973	0.226311
3.05E-05	0.254696	5.048297	
0.57747	0.362940	-9.431971	0.226311
3.05E-05	0.159796	9.203864	
0.71832	0.305683	-8.475969	0.226311
3.05E-05	0.064897	12.958548	
0.85916	0.248426	-7.519967	0.226311
3.05E-05	-0.030002	16.312350	
1.00000	0.191169	-6.563965	0.226311
3.05E-05	-0.124902	19.265271	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.850015	-27.801441	0.566378
1.78E-05	0.638490	-0.831369	
0.57747	0.850015	-27.801441	0.566378
1.78E-05	0.400090	10.826659	
0.71832	0.850015	-27.801441	0.566378
1.78E-05	0.163490	22.484687	
0.85916	0.850015	-27.801441	0.566378
1.78E-05	-0.074010	34.142715	
1.00000	0.850015	-27.801441	0.566378
1.78E-05	-0.311510	45.800743	

ELEM 213 ========== LENGTH = 2.977387

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.081541	0.071764	0.230340
-4.71E-05	0.128277	19.189936	
0.14084	-0.139120	1.027761	0.230340
-4.71E-05	0.031684	18.959395	
0.28169	-0.196698	1.983759	0.230340
-4.71E-05	-0.064908	18.327959	
0.42253	-0.254277	2.939756	0.230340
-4.71E-05	-0.161500	17.295629	
0.56338	-0.311855	3.895754	0.230340
-4.71E-05	-0.258093	15.862405	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.307046	13.335409	0.580635
-0.000186	0.323216	45.661468	
0.14084	-1.307046	13.335409	0.580635
-0.000186	0.079729	40.069308	
0.28169	-1.307046	13.335409	0.580635
-0.000186	-0.163759	34.477147	
0.42253	-1.307046	13.335409	0.580635
-0.000186	-0.407246	28.884986	
0.56338	-1.307046	13.335409	0.580635
-0.000186	-0.650734	23.292825	

ELEM 214 ========== LENGTH = 2.977350

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.621879	-10.414642	0.717190
1.46E-05	0.810195	3.665012	
0.57747	0.564622	-9.458627	0.717190
1.46E-05	0.509451	7.831816	
0.71831	0.507364	-8.502612	0.717190
1.46E-05	0.208706	11.597726	
0.85916	0.450107	-7.546598	0.717190
1.46E-05	-0.092039	14.962743	
1.00000	0.392849	-6.590583	0.717190
1.46E-05	-0.392783	17.926868	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.120790	-28.738945	1.773938
-0.000149	2.006671	-5.786389	
0.57747	1.120790	-28.738945	1.773938
-0.000149	1.262792	6.264928	
0.71831	1.120790	-28.738945	1.773938
-0.000149	0.518914	18.316244	
0.85916	1.120790	-28.738945	1.773938
-0.000149	-0.224965	30.367560	
1.00000	1.120790	-28.738945	1.773938
-0.000149	-0.968843	42.418876	

ELEM 215 ========== LENGTH = 2.977410

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.097444	-0.164392	0.732619
-6.08E-05	0.405592	17.872593	
0.14084	0.039865	0.791619	0.732619
-6.08E-05	0.098367	17.741078	
0.28169	-0.017714	1.747629	0.732619
-6.08E-05	-0.208859	17.208858	
0.42253	-0.075293	2.703640	0.732619
-6.08E-05	-0.516084	16.275333	
0.56338	-0.132872	3.659650	0.732619
-6.08E-05	-0.823310	14.941103	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.113235	12.124287	1.824383
-0.000318	1.010483	42.338042	
0.14084	-1.113235	12.124287	1.824383
-0.000318	0.245423	37.253692	
0.28169	-1.113235	12.124287	1.824383
-0.000318	-0.519636	32.169343	
0.42253	-1.113235	12.124287	1.824383
-0.000318	-1.284696	27.084994	
0.56338	-1.113235	12.124287	1.824383
-0.000318	-2.049756	22.000644	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 216 ========== LENGTH = 2.977439

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43662	0.746393	-10.018554	0.968199
0.000139	1.092613	2.395889	
0.57746	0.689134	-9.062488	0.968199
0.000139	0.686589	6.396799	
0.71831	0.631875	-8.106422	0.968199

```
 0.000139    0.280565    9.996774
 0.85915     0.574616    -7.150356     0.968199
 0.000139    -0.125458   13.195814
 1.00000     0.517357    -6.194290     0.968199
 0.000139    -0.531482   15.993918

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43662     1.703386   -31.089584    2.368136
 0.000116    2.673738   -14.775262
 0.57746     1.703386   -31.089584    2.368136
 0.000116    1.680637    -1.737540
 0.71831     1.703386   -31.089584    2.368136
 0.000116    0.687536    11.300181
 0.85915     1.703386   -31.089584    2.368136
 0.000116    -0.305566   24.337903
 1.00000     1.703386   -31.089584    2.368136
 0.000116    -1.298667   37.375624

ELEM      217 ================== LENGTH
=     2.977508

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     0.080284    1.534799    0.996410
-0.000156    0.553964    15.989311
 0.14085     0.022704    2.490865    0.996410
-0.000156    0.136092    15.145176
 0.28170     -0.034876   3.446932    0.996410
-0.000156    -0.281779   13.900088
 0.42254     -0.092457   4.402999    0.996410
-0.000156    -0.699651   12.254048
 0.56339     -0.150037   5.359065    0.996410
-0.000156    -1.117522   10.207055

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -0.887010   13.024518    2.435993
-0.000651    1.354485    37.422652
 0.14085     -0.887010   13.024518    2.435993
-0.000651    0.332886    31.960469
 0.28170     -0.887010   13.024518    2.435993
-0.000651    -0.688713   26.498285
 0.42254     -0.887010   13.024518    2.435993
-0.000651    -1.710313   21.036101
 0.56339     -0.887010   13.024518    2.435993
-0.000651    -2.731912   15.573918

ELEM      218 ================== LENGTH
=     2.977622

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43659     -0.483553   -5.267990    0.902667
 0.000119    1.024139    6.816179
 0.57744     -0.540814   -4.311820    0.902667
 0.000119    0.645555    8.825091
 0.71830     -0.598076   -3.355649    0.902667
 0.000119    0.266971    10.432981
 0.85915     -0.655338   -2.399479    0.902667
 0.000119    -0.111612   11.639847
 1.00000     -0.712599   -1.443308    0.902667
 0.000119    -0.490196   12.445689
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                104

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43659     2.004979    -26.272583    2.199352
-3.24E-05    2.489916    -13.072111
 0.57744     2.004979    -26.272583    2.199352
-3.24E-05    1.567496    -4.053246
 0.71830     2.004979    -26.272583    2.199352
-3.24E-05    0.645075    6.965619
 0.85915     2.004979    -26.272583    2.199352
-3.24E-05    -0.277344   17.984484
 1.00000     2.004979    -26.272583    2.199352
-3.24E-05    -1.199764   29.003349

ELEM      219 ================== LENGTH
=     2.977668

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -1.216324   6.072226    0.959156
-5.34E-05    0.532835    12.486811
 0.14085     -1.273907   7.028384    0.959156
-5.34E-05    0.139502    12.599592
 0.28171     -1.331489   7.984543    0.959156
-5.34E-05    -0.271737   6.591163
 0.42256     -1.389072   8.940701    0.959156
-5.34E-05    -0.674023   3.041796
 0.56342     -1.446655   9.896859    0.959156
-5.34E-05    -1.076309   -0.908600

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -0.794832   18.170723    2.267835
-0.000313    1.255230    29.166317
 0.14085     -0.794832   18.170723    2.267835
-0.000313    0.304061    21.545207
 0.28171     -0.794832   18.170723    2.267835
-0.000313    -0.647108   13.924098
 0.42256     -0.794832   18.170723    2.267835
-0.000313    -1.598276   6.302988
 0.56342     -0.794832   18.170723    2.267835
-0.000313    -2.549445   -1.318121

ELEM      220 ================== LENGTH
=     2.977852

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43656     -4.527139   4.311954    0.567398
 0.000210    0.624902    18.898143
 0.57742     -4.584404   5.268257    0.567398
 0.000210    0.386699    16.688871
 0.71828     -4.641669   6.224559    0.567398
 0.000210    0.148897    14.478465
 0.85914     -4.698934   7.180861    0.567398
 0.000210    -0.089106   11.666926
 1.00000     -4.756199   8.137164    0.567398
 0.000210    -0.327108   8.454253

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43656     1.100173    -8.542057    1.391840
 0.000572    1.520817    4.204537
 0.57742     1.100173    -8.542057    1.391840
 0.000572    0.936992    7.224514
 0.71828     1.100173    -8.542057    1.391840
 0.000572    0.353166    11.370691
 0.85914     1.100173    -8.542057    1.391840
 0.000572    -0.230659   14.953768
 1.00000     1.100173    -8.542057    1.391840
 0.000572    -0.814485   18.536846
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                105

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      221 ================== LENGTH
=     2.976914

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -5.179926   14.761274    0.648451
-0.000105    0.386661    0.522916
 0.14083     -5.237497   15.717001    0.648451
-0.000105    0.114811    2.134235
 0.28165     -5.295068   16.672727    0.648451
-0.000105    -0.157038   -4.655114
 0.42248     -5.352640   17.628454    0.648451
-0.000105    -0.428887   -11.845132
 0.56331     -5.410211   18.584181    0.648451
-0.000105    -0.700736   -19.435817

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -1.299309   30.312660    1.449839
-0.000641    0.859512    18.738165
 0.14083     -1.299309   30.312660    1.449839
-0.000641    0.251698    6.030233
 0.28165     -1.299309   30.312660    1.449839
-0.000641    -0.356116   -6.677699
 0.42248     -1.299309   30.312660    1.449839
-0.000641    -0.963929   -19.385631
 0.56331     -1.299309   30.312660    1.449839
-0.000641    -1.571743   -32.093563

ELEM      222 ================== LENGTH
=     2.977081

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43667     -6.754766   7.944134    0.126385
-6.71E-06    0.132872    24.328109
 0.57750     -6.812019   8.899995    0.126385
-6.71E-06    0.079882    20.796987
 0.71833     -6.869272   9.855857    0.126385
-6.71E-06    0.026892    16.865101
 0.85917     -6.926526   10.811718   0.126385
-6.71E-06    -0.026097   12.532450
 1.00000     -6.983779   11.767579   0.126385
-6.71E-06    -0.079087   7.799035

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43667     0.619902    1.605688    0.255607
-2.08E-05    0.269143    17.065703
 0.57750     0.619902    1.605688    0.255607
-2.08E-05    0.161975    16.395486
 0.71833     0.619902    1.605688    0.255607
-2.08E-05    0.054806    15.722269
 0.85917     0.619902    1.605688    0.255607
-2.08E-05    -0.052362   15.049051
 1.00000     0.619902    1.605688    0.255607
-2.08E-05    -0.159531   14.375834

ELEM      223 ================== LENGTH
=     2.978117

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -7.709830   20.316303    0.128492
-2.33E-05    0.080870    7.893457
 0.14087     -7.767420   21.272718    0.128492
-2.33E-05    0.026963    -0.830449
 0.28174     -7.825009   22.229134    0.128492
-2.33E-05    -0.026943   -9.955599
 0.42261     -7.882599   23.185549    0.128492
-2.33E-05    -0.080849   -19.481993
 0.56348     -7.940188   24.141964    0.128492
-2.33E-05    -0.134755   -29.409631
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                106

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -1.949573   35.959375    0.263802
-5.59E-05    0.166447    14.612039
 0.14087     -1.949573   35.959375    0.263802
-5.59E-05    0.055775    -0.473971
 0.28174     -1.949573   35.959375    0.263802
-5.59E-05    -0.054898   -15.559981
 0.42261     -1.949573   35.959375    0.263802
-5.59E-05    -0.165570   -30.645991
 0.56348     -1.949573   35.959375    0.263802
-5.59E-05    -0.276243   -45.732001

ELEM      224 ================== LENGTH
=     2.977323

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43663     -4.485416   4.165806    -0.333523
-0.000223    0.370930    18.596939
 0.57750     -4.542674   5.121906    -0.333523
-0.000223    -0.231074   16.649648
 0.71832     -4.599931   6.077805    -0.333523
-0.000223    -0.091217   14.301477
 0.85916     -4.657188   7.033805    -0.333523
-0.000223    0.048639    11.552426
 1.00000     -4.714445   7.989805    -0.333523
-0.000223    0.188496    8.402495

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43663     1.193584    -8.857549   -0.919721
-0.000615    -1.006981   3.530394
 0.57748     1.193584    -8.857549   -0.919721
-0.000615    -0.621314   7.244638
 0.71832     1.193584    -8.857549   -0.919721
-0.000615    -0.235647   10.958881
 0.85916     1.193584    -8.857549   -0.919721
-0.000615    0.150021    14.673124
 1.00000     1.193584    -8.857549   -0.919721
-0.000615    0.535688    18.387367

ELEM      225 ================== LENGTH
=     2.977383

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -5.180500   14.568970   -0.408204
 5.96E-05    -0.243244   8.473345
 0.14084     -5.238079   15.524966   -0.408204
 5.96E-05    -0.072065   2.163462
 0.28169     -5.295657   16.480961   -0.408204
 5.96E-05    0.099113    -4.547314
 0.42253     -5.353236   17.436956   -0.408204
 5.96E-05    0.270292    -11.658982
 0.56337     -5.410814   18.392952   -0.408204
 5.96E-05    0.441471    -19.171543

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -1.291861   29.885804   -0.957059
 0.000530    -0.564570   18.594413
 0.14084     -1.291861   29.885804   -0.957059
 0.000530    -0.163231   6.061926
 0.28169     -1.291861   29.885804   -0.957059
 0.000530    0.238108    -6.470560
 0.42253     -1.291861   29.885804   -0.957059
 0.000530    0.639446    -19.003047
 0.56337     -1.291861   29.885804   -0.957059
 0.000530    1.040785    -31.535533
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                107

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      226 ================== LENGTH
=     2.977749

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43657     -0.479337   -5.331460   -0.694883
-0.000133    -0.790907   6.640702
 0.57743     -0.536600   -4.375216   -0.694883
-0.000133    -0.499447   8.676373
 0.71829     -0.593864   -3.418973   -0.694883
-0.000133    -0.207988   10.310959
 0.85914     -0.651127   -2.462730   -0.694883
-0.000133    0.083472    11.544462
 1.00000     -0.708391   -1.506487   -0.694883
-0.000133    0.374932    12.376880

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43657     2.015737    -26.382336   -1.785406
-1.50E-05    -2.024026   -15.455635
 0.57743     2.015737    -26.382336   -1.785406
-1.50E-05    -1.275160   -4.389901
 0.71829     2.015737    -26.382336   -1.785406
-1.50E-05    -0.526294   6.675834
 0.85914     2.015737    -26.382336   -1.785406
-1.50E-05    0.222572    17.741568
 1.00000     2.015737    -26.382336   -1.785406
-1.50E-05    0.971438    28.807302

ELEM      227 ================== LENGTH
=     2.977809

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -1.213317   5.993785    -0.746764
 1.11E-05    -0.413892   2.424440
 0.14086     -1.270902   6.950024    -0.746764
 1.11E-05    -0.100660   9.709786
 0.28172     -1.328487   7.906263    -0.746764
 1.11E-05    0.212571    6.594034
 0.42258     -1.386072   8.862502    -0.746764
 1.11E-05    0.525803    3.077186
 0.56344     -1.443657   9.818741    -0.746764
 1.11E-05    0.839035    -0.840758

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -0.788065   18.024492   -1.837483
 0.000211    -1.013493   28.986566
 0.14086     -0.788065   18.024492   -1.837483
 0.000211    -0.242757   21.426152
 0.28172     -0.788065   18.024492   -1.837483
 0.000211    0.527980    13.865739
 0.42259     -0.788065   18.024492   -1.837483
 0.000211    1.298716    6.305325
 0.56344     -0.788065   18.024492   -1.837483
 0.000211    2.069452    -1.255088

ELEM      228 ================== LENGTH
=     2.977253

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43664     0.741433    -9.966851   -0.785960
-0.000146    -0.888041   2.294678
 0.57748     0.684177    -9.010392   -0.785960
-0.000146    -0.558478   6.273487
 0.71832     0.626920    -8.054933   -0.785960
-0.000146    -0.228915   9.851449
 0.85916     0.569664    -7.098973   -0.785960
-0.000146    0.100648    13.026565
 1.00000     0.512408    -6.143014   -0.785960
-0.000146    0.430212    15.804835
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                108

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43664     1.690909    -30.946195   -2.019766
-0.000145    -2.281113   -15.043398
 0.57748     1.690909    -30.946195   -2.019766
-0.000145    -1.434198   -2.067251
 0.71832     1.690909    -30.946195   -2.019766
-0.000145    -0.587284   10.908695
 0.85916     1.690909    -30.946195   -2.019766
-0.000145    0.259630    23.885041
 1.00000     1.690909    -30.946195   -2.019766
-0.000145    1.106545    36.861188

ELEM      229 ================== LENGTH
=     2.977313

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     0.079297    1.354931    -0.811297
 0.000110    -0.450412   15.811252
 0.14084     0.021719    2.310886    -0.811297
 0.000110    -0.110213   15.042662
 0.28168     -0.035858   3.266841    -0.811297
 0.000110    0.229987    13.873213
 0.42252     -0.093435   4.222796    -0.811297
 0.000110    0.571187    12.303765
 0.56336     -0.151013   5.178751    -0.811297
 0.000110    0.910386    10.331739

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -0.889813   12.585312   -2.075444
 0.000538    -1.152370   36.936056
 0.14084     -0.889813   12.585312   -2.075444
 0.000538    -0.282078   31.658680
 0.28168     -0.889813   12.585312   -2.075444
 0.000538    0.588214    26.381305
 0.42252     -0.889813   12.585312   -2.075444
 0.000538    1.458506    21.103929
 0.56336     -0.889813   12.585312   -2.075444
 0.000538    2.328798    15.826554

ELEM      230 ================== LENGTH
=     2.976832

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43671     0.634972    -10.506320   -0.591207
-3.52E-05    -0.668105   3.462240
 0.57753     0.577723    -9.550602    -0.591207
-3.52E-05    -0.420266   7.666251
 0.71835     0.520473    -8.594883    -0.591207
-3.52E-05    -0.172427   11.469617
 0.85918     0.463223    -7.639165    -0.591207
-3.52E-05    0.075411    14.872339
 1.00000     0.405973    -6.683446    -0.591207
-3.52E-05    0.323250    17.874415

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43671     1.156579    -28.984542   -1.569225
 8.57E-05    -1.773535   -6.371702
 0.57753     1.156579    -28.984542   -1.569225
 8.57E-05    -1.115703   5.778850
 0.71835     1.156579    -28.984542   -1.569225
 8.57E-05    -0.457871   17.929402
 0.85918     1.156579    -28.984542   -1.569225
 8.57E-05    0.199961    30.079954
 1.00000     1.156579    -28.984542   -1.569225
 8.57E-05    0.857793    42.230506
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                109

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      231 ================== LENGTH
=     2.977849

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     0.083478    -0.092554   -0.605654
 3.64E-05    -0.335690   17.841545
 0.14086     0.025893    0.863708    -0.605654
 3.64E-05    -0.081641   17.679810
 0.28172     -0.031693   1.819969    -0.605654
 3.64E-05    0.172408    17.118960
 0.42258     -0.089278   2.776231    -0.605654
 3.64E-05    0.426456    16.152994
 0.56344     -0.146864   3.732492    -0.605654
 3.64E-05    0.680505    14.787912

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -1.146085   12.290095   -1.611829
 0.000260    -0.893944   42.203707
 0.14086     -1.146085   12.290095   -1.611829
 0.000260    -0.217842   37.048478
 0.28172     -1.146085   12.290095   -1.611829
 0.000260    0.458259    31.893248
 0.42258     -1.146085   12.290095   -1.611829
 0.000260    1.134360    26.738019
 0.56344     -1.146085   12.290095   -1.611829
 0.000260    1.810462    21.582789

ELEM      232 ================== LENGTH
=     2.977485

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43661     0.464561    -10.372919   -0.192944
-3.89E-05    -0.217484   4.880776
 0.57746     0.407302    -9.416827    -0.192944
-3.89E-05    -0.136569   9.030400
 0.71831     0.350042    -8.460735    -0.192944
-3.89E-05    -0.055653   12.779067
 0.85915     0.292782    -7.504644    -0.192944
-3.89E-05    0.025262    16.126777
 1.00000     0.235523    -6.548552    -0.192944
-3.89E-05    0.106177    19.073529

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43661     0.960599    -27.785516   -0.598296
-5.11E-05    -0.673223   -1.377218
 0.57746     0.960599    -27.785516   -0.598296
-5.11E-05    -0.422315   10.275225
 0.71831     0.960599    -27.785516   -0.598296
-5.11E-05    -0.171407   21.927668
 0.85915     0.960599    -27.785516   -0.598296
-5.11E-05    0.079500    33.580111
 1.00000     0.960599    -27.785516   -0.598296
-5.11E-05    0.330408    45.232554

ELEM      233 ================== LENGTH
=     2.977499

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -0.063323   0.105751    -0.202901
 2.65E-05    -0.114445   19.025908
 0.14085     -0.120903   1.061842    -0.202901
 2.65E-05    -0.029354   18.781072
 0.28170     -0.178483   2.017904    -0.202901
 2.65E-05    0.055738    18.135288
 0.42254     -0.236064   2.973965    -0.202901
 2.65E-05    0.140829    17.085537
 0.56339     -0.293644   3.930026    -0.202901
 2.65E-05    0.225920    15.640877
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                110

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     -1.263354   13.401685   -0.621667
 0.000138    -0.349465   45.163252
 0.14085     -1.263354   13.401685   -0.621667
 0.000138    -0.088754   39.542925
 0.28170     -1.263354   13.401685   -0.621667
 0.000138    0.171958    33.922598
 0.42254     -1.263354   13.401685   -0.621667
 0.000138    0.432669    28.302272
 0.56339     -1.263354   13.401685   -0.621667
 0.000138    0.693381    22.681945

ELEM      234 ================== LENGTH
=     2.977215

LOAD    STEEL -----------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43665     0.597683    -10.379454   0.240748
 2.18E-05    0.271308    4.716647
 0.57749     0.540427    -9.423516    0.240748
 2.18E-05    0.170362    8.868378
 0.71832     0.483172    -8.467578    0.240748
 2.18E-05    0.069415    12.618281
 0.85916     0.425916    -7.511640    0.240748
 2.18E-05    -0.031532   15.969355
 1.00000     0.368661    -6.555702    0.240748
 2.18E-05    -0.132479   18.918600

LOAD    CONC ------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43665     1.256635    -27.857482   0.475861
-1.10E-05    0.539644    -1.948440
 0.57749     1.256635    -27.857482   0.475861
-1.10E-05    0.340114    9.732310
 0.71832     1.256635    -27.857482   0.475861
```

```
-1.10E-05    0.140583   21.413060
 0.85916     1.256635  -27.857482     0.475861
-1.10E-05    -0.058947  33.093810
 1.00000     1.256635  -27.857482     0.475861
-1.10E-05    -0.258477  44.774560

 ELEM      235 ================== LENGTH
=     2.977225

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000    0.061501    0.079384    0.234848
-6.01E-05    0.127840   18.880742
 0.14084    0.003925    1.035288    0.234848
-6.01E-05    0.029366   18.647048
 0.28168   -0.053651    1.991193    0.234848
-6.01E-05    -0.069107  18.012536
 0.42251   -0.111228    2.947097    0.234848
-6.01E-05    -0.167580  16.977209
 0.56335   -0.168804    3.903002    0.234848
-6.01E-05    -0.266053  15.541064

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000   -0.986278   13.280007   0.475552
-0.000212    0.258754   44.726148
 0.14084   -0.986278   13.280007   0.475552
-0.000212    0.059352   39.157760
 0.28168   -0.986278   13.280007   0.475552
-0.000212   -0.140050   33.589372
 0.42251   -0.986278   13.280007   0.475552
-0.000212   -0.339452   28.020983
 0.56335   -0.986278   13.280007   0.475552
-0.000212   -0.538854   22.452595
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         111

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 ELEM      236 ================== LENGTH
=     2.976966

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43669    1.080284  -10.766396    0.562341
 1.49E-05    0.635069    2.728280
 0.57751    1.023032   -9.810601    0.562341
 1.49E-05    0.399312    7.041646
 0.71834    0.965781   -8.854805    0.562341
 1.49E-05    0.163556   10.954304
 0.85917    0.908529   -7.899010    0.562341
 1.49E-05    -0.072201  14.466252
 1.00000    0.851277   -6.943214    0.562341
 1.49E-05    -0.307958  17.577491

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43669    2.135296  -29.793165    1.270018
-0.000155    1.439981   -8.721494
 0.57751    2.135296  -29.793165    1.270018
-0.000155    0.907536    3.769040
 0.71834    2.135296  -29.793165    1.270018
-0.000155    0.375092   16.259575
 0.85917    2.135296  -29.793165    1.270018
-0.000155   -0.157352   28.750109
 1.00000    2.135296  -29.793165    1.270018
-0.000155   -0.689797   41.240643

 ELEM      237 ================== LENGTH
=     2.978023

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000    0.475933    0.130080    0.557388
-5.06E-05    0.304587   17.569322
 0.14087    0.418345    1.086441    0.557388
-5.06E-05    0.070759   17.314153
 0.28173    0.360757    2.042802    0.557388
-5.06E-05    -0.163068  16.657785
 0.42260    0.303169    2.999164    0.557388
-5.06E-05    -0.396896  15.600218
 0.56347    0.245581    3.955525    0.557388
-5.06E-05    -0.630724  14.141452

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000   -0.290044   12.614092   1.282814
-0.000286    0.701989   41.273005
 0.14087   -0.290044   12.614092   1.282814
-0.000286    0.163841   35.981321
 0.28173   -0.290044   12.614092   1.282814
-0.000286   -0.374307   30.689637
 0.42260   -0.290044   12.614092   1.282814
-0.000286   -0.912454   25.397953
 0.56347   -0.290044   12.614092   1.282814
-0.000286   -1.450602   20.106269

 ELEM      238 ================== LENGTH
=     2.977840

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43656    1.142937   -9.987109    0.624452
 0.000143    0.706788    1.217402
 0.57742    1.085672   -9.030813    0.624452
 0.000143    0.444855    5.206032
 0.71828    1.028408   -8.074518    0.624452
 0.000143    0.182922    8.793534
 0.85914    0.971143   -7.118222    0.624452
 0.000143   -0.079010   11.979908
 1.00000    0.913878   -6.161926    0.624452
 0.000143   -0.340943   14.765154
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         112

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43656    2.529808  -31.437140    1.416468
 0.000128    1.607935  -18.860736
 0.57742    2.529808  -31.437140    1.416468
 0.000128    1.013783   -5.674109
 0.71828    2.529808  -31.437140    1.416468
 0.000128    0.419632    7.512517
 0.85914    2.529808  -31.437140    1.416468
 0.000128   -0.174520   20.699144
 1.00000    2.529808  -31.437140    1.416468
 0.000128   -0.768672   33.885770

 ELEM      239 ================== LENGTH
=     2.976904

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000    0.456682    1.202371    0.638897
-0.000118    0.350699   14.799886
 0.14083    0.399110    2.158092    0.638897
-0.000118    0.082857   14.095489
 0.28165    0.341539    3.113813    0.638897
-0.000118   -0.184986   12.990429
 0.42248    0.283968    4.069534    0.638897
-0.000118   -0.452828   11.484706
 0.56330    0.226397    5.025255    0.638897
-0.000118   -0.720670    9.578320

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000   -0.101423   11.711560   1.462998
-0.000556    0.804028   34.012322
 0.14083   -0.101423   11.711560   1.462998
-0.000556    0.190701   29.113531
 0.28165   -0.101423   11.711560   1.462998
-0.000556   -0.422625   24.203740
 0.42248   -0.101423   11.711560   1.462998
-0.000556   -1.035952   19.293950
 0.56330   -0.101423   11.711560   1.462998
-0.000556   -1.649279   14.384159

 ELEM      240 ================== LENGTH
=     2.976798

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43671   -2.279581   -5.763374    0.362238
 0.000119    0.420249    4.397304
 0.57753   -2.336831   -4.807676    0.362238
 0.000119    0.268399    6.612093
 0.71836   -2.394080   -3.851977    0.362238
 0.000119    0.116549    8.428054
 0.85918   -2.451329   -2.896278    0.362238
 0.000119   -0.035301    9.842486
 1.00000   -2.508578   -1.940579    0.362238
 0.000119   -0.187150   10.856290

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43671   -2.021813  -28.518973    0.793789
-5.65E-05    0.920543  -23.194072
 0.57753   -2.021813  -28.518973    0.793789
-5.65E-05    0.587787  -11.238934
 0.71836   -2.021813  -28.518973    0.793789
-5.65E-05    0.255031    0.716203
 0.85918   -2.021813  -28.518973    0.793789
-5.65E-05   -0.077725   12.671341
 1.00000   -2.021813  -28.518973    0.793789
-5.65E-05   -0.410481   24.626478
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         113

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 ELEM      241 ================== LENGTH
=     2.977854

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000   -3.061711    5.822684    0.446256
 2.15E-05    0.246767   10.941887
 0.14086   -3.119297    6.778948    0.446256
 2.15E-05    0.059579    8.298925
 0.28172   -3.176882    7.735213    0.446256
 2.15E-05   -0.127609    5.254845
 0.42258   -3.234468    8.691477    0.446256
 2.15E-05   -0.314797    1.809647
 0.56344   -3.292054    9.647742    0.446256
 2.15E-05   -0.501986   -2.036669

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000   -4.950614   16.770993    0.933065
-9.36E-05    0.512070   24.899332
 0.14086   -4.950614   16.770993    0.933065
-9.36E-05    0.120683   17.860113
 0.28172   -4.950614   16.770993    0.933065
-9.36E-05   -0.270704   10.825295
 0.42258   -4.950614   16.770993    0.933065
-9.36E-05   -0.662091    3.790476
 0.56344   -4.950614   16.770993    0.933065
-9.36E-05   -1.053477   -3.244342

 ELEM      242 ================== LENGTH
=     2.976827

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43671   -13.058662    3.839769   -0.234615
 0.000276   -0.237779   15.211231
 0.57753   -13.115912    4.795485   -0.234615
 0.000276   -0.121427   13.401252
 0.71835   -13.173162    5.751201   -0.234615
 0.000276   -0.041075   11.190631
 0.85918   -13.230411    6.706917   -0.234615
 0.000276    0.057277    8.579367
 1.00000   -13.287661    7.662633   -0.234615
 0.000276    0.155629    5.567460

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43671  -17.521793  -10.636064   -0.622111
 0.000847   -0.645091   -7.639142
 0.57753  -17.521793  -10.636064   -0.622111
 0.000847   -0.384297   -3.180431
 0.71835  -17.521793  -10.636064   -0.622111
 0.000847   -0.123504    1.278280
 0.85918  -17.521793  -10.636064   -0.622111
 0.000847    0.137289    5.736990
 1.00000  -17.521793  -10.636064   -0.622111
 0.000847    0.398082   10.195701

 ELEM      243 ================== LENGTH
=     2.977883

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000  -13.870282   13.677102   -0.070971
-5.69E-05   -0.039346    5.678738
 0.14086  -13.927868   14.633384   -0.070971
-5.69E-05   -0.009576   -0.258972
 0.28172  -13.985454   15.589665   -0.070971
-5.69E-05    0.020194   -6.597814
 0.42259  -14.043040   16.545946   -0.070971
-5.69E-05    0.049964  -13.337788
 0.56345  -14.100626   17.502228   -0.070971
-5.69E-05    0.079734  -20.478895
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         114

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000  -20.221274   25.119040   -0.376353
-0.000603   -0.222066   10.496627
 0.14086  -20.221274   25.119040   -0.376353
-0.000603   -0.064197   -0.040075
 0.28172  -20.221274   25.119040   -0.376353
-0.000603    0.093672  -10.576777
 0.42259  -20.221274   25.119040   -0.376353
-0.000603    0.251541  -21.113479
 0.56345  -20.221274   25.119040   -0.376353
-0.000603    0.409410  -31.650182

 ELEM      244 ================== LENGTH
=     2.977553

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43660  -20.072413    6.543907   -0.774890
-0.000101   -0.836963   19.301741
 0.57745  -20.129674    7.500038   -0.774890
-0.000101   -0.511983   16.356808
 0.71830  -20.186934    8.456169   -0.774890
-0.000101   -0.187004   13.010885
 0.85915  -20.244195    9.412300   -0.774890
-0.000101    0.137976    9.263973
 1.00000  -20.301455   10.368432   -0.774890
-0.000101    0.462956    5.116070

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43660  -27.644239   -7.633966   -1.988677
-0.000590   -2.144063   -2.773500
 0.57745  -27.644239   -7.633966   -1.988677
-0.000590   -1.310036    0.428095
 0.71830  -27.644239   -7.633966   -1.988677
-0.000590   -0.476008    3.629691
 0.85915  -27.644239   -7.633966   -1.988677
-0.000590    0.358020    6.831286
 1.00000  -27.644239   -7.633966   -1.988677
-0.000590    1.192048   10.032881

 ELEM      245 ================== LENGTH
=     2.977613

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000  -21.023581   21.126997   -0.782661
 0.000221   -0.471711    5.255091
 0.14085  -21.081153   22.083123   -0.782661
 0.000221   -0.143460   -3.806140
 0.28170  -21.138745   23.039250   -0.782661
 0.000221    0.184790  -13.268374
 0.42256  -21.196327   23.995377   -0.782661
 0.000221    0.513041  -23.131610
 0.56341  -21.253909   24.951504   -0.782661
 0.000221    0.841291  -33.395850

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000  -30.531751   38.030050   -2.003860
 0.000934   -1.207378   10.390402
 0.14085  -30.531751   38.030050   -2.003860
 0.000934   -0.366953   -5.559523
 0.28170  -30.531751   38.030050   -2.003860
 0.000934    0.473473  -21.509448
 0.42256  -30.531751   38.030050   -2.003860
 0.000934    1.313898  -37.459372
 0.56341  -30.531751   38.030050   -2.003860
 0.000934    2.154324  -53.409297
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         115

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 ELEM      246 ================== LENGTH
=     2.977709

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43658  -10.541676    1.285784   -1.387545
-0.000144   -1.582245   13.436217
 0.57743  -10.598939    2.242004   -1.387545
-0.000144   -1.000271   12.696392
 0.71829  -10.656202    3.198225   -1.387545
-0.000144   -0.418297   11.555502
 0.85914  -10.713464    4.154445   -1.387545
-0.000144    0.163677   10.013547
 1.00000  -10.770727    5.110665   -1.387545
-0.000144    0.745651    8.070528

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43658  -13.720936  -17.894898   -3.525793
 1.57E-05   -3.997836  -11.573652
 0.57743  -13.720936  -17.894898   -3.525793
 1.57E-05   -2.519023   -4.068045
 0.71829  -13.720936  -17.894898   -3.525793
 1.57E-05   -1.040209    3.437561
 0.85914  -13.720936  -17.894898   -3.525793
 1.57E-05    0.438604   10.943168
 1.00000  -13.720936  -17.894898   -3.525793
 1.57E-05    1.917418   18.448774

 ELEM      247 ================== LENGTH
=     2.977769

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000  -11.408620   13.285209   -1.607684
 0.000156   -0.908323    8.185161
 0.14088  -11.466206   14.241425   -1.607684
 0.000156   -0.233993    2.412246
 0.28172  -11.523789   15.197640   -1.607684
 0.000156    0.440338   -3.761747
 0.42257  -11.581373   16.153856   -1.607684
 0.000156    1.114668  -10.336817
 0.56343  -11.638957   17.110072   -1.607684
 0.000156    1.788999  -17.312964

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000  -16.851287   28.479416   -3.859797
 0.000519   -2.164848   18.783615
 0.14086  -16.851287   28.479416   -3.859797
 0.000519   -0.545886    6.838148
 0.28172  -16.851287   28.479416   -3.859797
 0.000519    1.073076   -5.107320
 0.42257  -16.851287   28.479416   -3.859797
 0.000519    2.692037  -17.052787
 0.56343  -16.851287   28.479416   -3.859797
 0.000519    4.310999  -28.998255

 ELEM      248 ================== LENGTH
=     2.976946

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43669   -1.059422   -7.051087   -1.853694
-0.000146   -2.090298    4.054378
 0.57752   -1.116673   -6.095303   -1.853694
-0.000146   -1.313162   -7.810101
 0.71834   -1.173924   -5.139519   -1.853694
-0.000146   -0.536026    9.165124
 0.85917   -1.231176   -4.183736   -1.853694
-0.000146    0.241110   11.119448
 1.00000   -1.288427   -3.227952   -1.853694
-0.000146    1.018246   12.673073
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         116

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43669   -2.090298    4.054378   -1.853694
-0.000146   -1.116673   -6.095303
 0.57752   -1.313162   -7.810101   -1.853694
-0.000146   -1.173924   -5.139519
 0.71834   -0.536026    9.165124   -1.853694
-0.000146    0.241110   11.119448
 0.85917   -0.258427   -3.227952   -1.853694
-0.000146    1.018246   12.673073
 1.00000    0.519144   -2.272168   -1.853694
-0.000146    1.795382   14.226698
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         117

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 ELEM      251 ================== LENGTH
=     2.977225

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000    0.675739    0.643284   -1.894317
 0.000272   -1.053924   16.553205
 0.14084    0.618163    1.599189   -1.894317
 0.000272   -0.259625   16.083064
 0.28168    0.560587    2.555093   -1.894317
 0.000272    0.534673   15.212106
 0.42251    0.503010    3.510998   -1.894317
 0.000272    1.328972   13.940331
 0.56335    0.445434    4.466902   -1.894317
 0.000272    2.123270   12.267740

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000    0.174665   11.631378   -4.687187
 0.000966   -2.605704   38.762878
 0.14084    0.174665   11.631378   -4.687187
 0.000966   -0.640338   33.885770
 0.28168    0.174665   11.631378   -4.687187
 0.000966    1.325029   29.008661
 0.42251    0.174665   11.631378   -4.687187
 0.000966    3.290395   24.131553
 0.56335    0.174665   11.631378   -4.687187
 0.000966    5.255761   19.254445

 ELEM      252 ================== LENGTH
=     2.976550

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43675    0.910538  -10.552610   -1.461180
-3.34E-05   -1.636497    4.697614
 0.57756    0.853292   -9.597053   -1.461180
-3.34E-05   -1.024062    8.920353
 0.71837    0.796047   -8.641496   -1.461180
-3.34E-05   -0.411627   12.742583
 0.85919    0.738801   -7.685939   -1.461180
-3.34E-05    0.200808   16.564812
 1.00000    0.681556   -6.730382   -1.461180
-3.34E-05    0.813243   19.185512

 LOAD    CONC ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.43675    1.839655  -29.028533   -3.697954
 0.000116   -4.138365   -3.018916
 0.57756    1.839655  -29.028533   -3.697954
 0.000116   -2.588415    9.148029
 0.71837    1.839655  -29.028533   -3.697954
 0.000116   -1.038464   21.314973
 0.85919    1.839655  -29.028533   -3.697954
 0.000116    0.511487   33.481917
 1.00000    1.839655  -29.028533   -3.697954
 0.000116    2.061438   45.648862

 ELEM      253 ================== LENGTH
=     2.977603

 LOAD    STEEL ------------------

 REL DIST          P          V2         V3
        T          M2         M3
 0.00000    0.419200   -0.099861   -1.447409
 0.000230   -0.802394   19.094221
```

```
 0.14085     0.361618     0.856260    -1.447409
 0.000230    -0.195350    18.935604
 0.28170     0.304036     1.812381    -1.447409
 0.000230    0.411694     18.375989
 0.42256     0.246454     2.768503    -1.447409
 0.000230    1.018739     17.415375
 0.56341     0.188872     3.724624    -1.447409
 0.000230    1.625783     16.053764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                              Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                               118

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    -0.324506     12.330557     -3.647889
 0.000796   -2.020453     45.488005
 0.14085    -0.324506     12.330557     -3.647889
 0.000796   -0.490525     40.316559
 0.28170    -0.324506     12.330557     -3.647889
 0.000796   1.039403      35.145113
 0.42256    -0.324506     12.330557     -3.647889
 0.000796   2.569330      29.973667
 0.56341    -0.324506     12.330557     -3.647889
 0.000796   4.099258      24.802221

 ELEM       254 ================== LENGTH
=     2.977998

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43653    0.486769    -10.236271     -0.753224
-9.64E-06   -0.839078     6.847166
 0.57740    0.429501     -9.279885     -0.753224
-9.64E-06   -0.523101     10.940675
 0.71927    0.372234     -8.323499     -0.753224
-9.64E-06   -0.207124     14.632981
 0.85913    0.314967     -7.367113     -0.753224
-9.64E-06   0.108654      17.924084
 1.00000    0.257700     -6.410728     -0.753224
-9.64E-06   0.424831      20.813983

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43653    1.150242    -26.821702     -2.023517
 6.65E-05   -2.250721     5.157382
 0.57740    1.150242    -26.821702     -2.023517
 6.65E-05   -1.401856     16.409074
 0.71827    1.150242    -26.821702     -2.023517
 6.65E-05   -0.552992     27.660765
 0.85913    1.150242    -26.821702     -2.023517
 6.65E-05   0.295873      38.912456
 1.00000    1.150242    -26.821702     -2.023517
 6.65E-05   1.144737      50.164148

 ELEM       255 ================== LENGTH
=     2.977065

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    0.038079      0.348123     -0.710795
 0.000127   -0.388653     20.694078
 0.14083    -0.019494     1.303936     -0.710795
 0.000127   -0.090641     20.347752
 0.28166    -0.077068     2.259749     -0.710795
 0.000127   0.207372      19.600686
 0.42250    -0.134642     3.215562     -0.710795
 0.000127   0.505384      18.452879
 0.56333    -0.192215     4.171375     -0.710795
 0.000127   0.803396      16.904332

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    -0.909311     14.857134     -1.892801
 0.000436   -1.033060     49.927409
 0.14083    -0.909311     14.857134     -1.892801
 0.000436   -0.239472     43.698315
 0.28166    -0.909311     14.857134     -1.892801
 0.000436   0.554115      37.469220
 0.42250    -0.909311     14.857134     -1.892801
 0.000436   1.347703      31.240126
 0.56333    -0.909311     14.857134     -1.892801
 0.000436   2.141291      25.011031
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                              Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                               119

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       256 ================== LENGTH
=     2.977536

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43660    0.180215    -10.055159      0.097325
 8.41E-06   0.120118      7.778892
 0.57745    0.122955     -9.099037      0.097325
 8.41E-06   0.079301      11.795373
 0.71830    0.065695     -8.142916      0.097325
 8.41E-06   0.038485      15.410873
 0.85915    0.008435     -7.186795      0.097325
 8.41E-06   -0.002332     18.625390
 1.00000    -0.048826    -6.230673      0.097325
 8.41E-06   -0.043149     21.438926

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43660    0.423600    -25.724256      0.003788
-5.78E-06   0.037969      8.848758
 0.57745    0.423600    -25.724256      0.003788
-5.78E-06   0.036381      19.637099
 0.71830    0.423600    -25.724256      0.003788
-5.78E-06   0.034792      30.425439
 0.85915    0.423600    -25.724256      0.003788
-5.78E-06   0.033204      41.213780
 1.00000    0.423600    -25.724256      0.003788
-5.78E-06   0.031615      52.002121

 ELEM       257 ================== LENGTH
=     2.976603

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    -0.248500     0.524804      0.189757
-9.11E-06   0.119884      21.302702
 0.14082    -0.306067     1.480353      0.189757
-9.11E-06   0.040347      20.882470
 0.28163    -0.363633     2.435902      0.189757
-9.11E-06   -0.039189     20.061719
 0.42245    -0.421200     3.391451      0.189757
-9.11E-06   -0.118726     18.840449
 0.56326    -0.478767     4.347000      0.189757
-9.11E-06   -0.198263     17.218660

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    -1.584678     15.932054      0.272693
-1.56E-05   0.192045      51.723886
 0.14082    -1.584678     15.932054      0.272693
-1.56E-05   0.077745      45.045953
 0.28163    -1.584678     15.932054      0.272693
-1.56E-05   -0.036554     38.368020
 0.42245    -1.584678     15.932054      0.272693
-1.56E-05   -0.150854     31.690087
 0.56326    -1.584678     15.932054      0.272693
-1.56E-05   -0.265153     25.012154

 ELEM       258 ================== LENGTH
=     2.977041

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43668    -0.500752    -10.430160      0.970106
 2.22E-05   1.105229      6.833386
 0.57751    -0.558004    -9.474322       0.970106
 2.22E-05   0.698502      11.005966
 0.71834    -0.615257    -8.518483       0.970106
 2.22E-05   0.291775      14.777801
 0.85917    -0.672510    -7.562645       0.970106
 2.22E-05   -0.114952     18.148891
 1.00000    -0.729763    -6.606807       0.970106
 2.22E-05   -0.521679     21.119236
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                              Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                               120

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43668    -1.651604    -26.589424      2.095861
-0.000101   2.402351      16.776781
 0.57751    -1.651604    -26.589424      2.095861
-0.000101   1.523639      17.874672
 0.71834    -1.651604    -26.589424      2.095861
-0.000101   0.644928      29.022564
 0.85917    -1.651604    -26.589424      2.095861
-0.000101   -0.233784     40.170456
 1.00000    -1.651604    -26.589424      2.095861
-0.000101   -1.112496     51.318348

 ELEM       259 ================== LENGTH
=     2.977210

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    -0.939088     0.179944      1.125288
-0.000146   0.649560      20.974127
 0.14084    -0.996664     1.135840      1.125288
-0.000146   0.177724      20.698271
 0.28167    -1.054240     2.091737      1.125288
-0.000146   -0.294112     20.021605
 0.42251    -1.111816     3.047633      1.125288
-0.000146   -0.765949     18.944129
 0.56335    -1.169392     4.003530      1.125288
-0.000146   -1.237785     17.465844

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    -3.683848     15.207952     2.540146
-0.000470   1.478735      51.021446
 0.14084    -3.683848     15.207952     2.540146
-0.000470   0.413646      44.644712
 0.28167    -3.683848     15.207952     2.540146
-0.000470   -0.651444     38.267979
 0.42251    -3.683848     15.207952     2.540146
-0.000470   -1.716534     31.891245
 0.56335    -3.683848     15.207952     2.540146
-0.000470   -2.781624     25.514511

 ELEM       260 ================== LENGTH
=     2.977834

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43656    -1.556146    -11.473462      1.759832
 5.56E-05   1.994851      3.923745
 0.57742    -1.613411    -10.517170      1.759832
 5.56E-05   1.256675      8.535823
 0.71828    -1.670676    -9.560879       1.759832
 5.56E-05   0.518499      12.746776
 0.85914    -1.727940    -8.604586       1.759832
 5.56E-05   -0.219678     16.556604
 1.00000    -1.785205    -7.648295       1.759832
 5.56E-05   -0.957854     19.965308

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43656    -4.889488    -30.208239     4.008719
-0.000122   4.559505      -2.440032
 0.57742    -4.889488    -30.208239     4.008719
-0.000122   2.878714      10.231068
 0.71828    -4.889488    -30.208239     4.008719
-0.000122   1.196523      22.902168
 0.85914    -4.889488    -30.208239     4.008719
-0.000122   -0.484968     35.573268
 1.00000    -4.889488    -30.208239     4.008719
-0.000122   -2.166459     48.244368
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                              Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                               121

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       261 ================== LENGTH
=     2.976788

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    -2.051698    -0.295245     1.977200
-0.000277   1.136366      19.854552
 0.14082    -2.109268    0.660410      1.977200
-0.000277   0.307530      19.778014
 0.28164    -2.166837    1.616064      1.977200
-0.000277   -0.521307     19.300869
 0.42247    -2.224407    2.571719      1.977200
-0.000277   -1.350143     18.423116
 0.56329    -2.281976    3.527373      1.977200
-0.000277   -2.178980     17.144756

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    -7.040278     12.704574     4.620116
-0.000947   2.669874      48.022996
 0.14082    -7.040278     12.704574     4.620116
-0.000947   0.733135      42.697277
 0.28164    -7.040278     12.704574     4.620116
-0.000947   -1.203603     37.371558
 0.42247    -7.040278     12.704574     4.620116
-0.000947   -3.140341     32.045839
 0.56329    -7.040278     12.704574     4.620116
-0.000947   -5.077080     26.720120

 ELEM       262 ================== LENGTH
=     2.977482

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43661    0.799605    -10.105526      2.376641
 0.000122   2.719548      3.007522
 0.57746    0.742345     -9.149435      2.376641
 0.000122   1.722854      7.045004
 0.71831    0.685086     -8.193345      2.376641
 0.000122   0.726161      10.681530
 0.85915    0.627826     -7.237254      2.376641
 0.000122   -0.270533     13.917099
 1.00000    0.570567     -6.281163      2.376641
 0.000122   -1.267226     16.751713

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43661    2.601774    -31.220350     5.561289
-0.000200   6.373955      -11.723501
 0.57746    2.601774    -31.220350     5.561289
-0.000200   4.044614      1.353395
 0.71831    2.601774    -31.220350     5.561289
-0.000200   1.712373      14.446291
 0.85915    2.601774    -31.220350     5.561289
-0.000200   -0.619868     27.539187
 1.00000    2.601774    -31.220350     5.561289
-0.000200   -2.952109     40.632084

 ELEM       263 ================== LENGTH
=     2.977542

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    0.219744     -0.188978     2.541280
-0.000353   1.415584      16.664488
 0.14085    0.162163     0.767109      2.541280
-0.000353   0.349808      16.543258
 0.28170    0.104583     1.723195      2.541280
-0.000353   -0.715968     16.021059
 0.42255    0.047002     2.679281      2.541280
-0.000353   -1.781744     15.097891
 0.56340    -0.010579    3.635368      2.541280
-0.000353   -2.847520     13.773755
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                              Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                               122

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    0.209425     9.446022      5.995038
-0.001175   3.349243     40.471611
 0.14085    0.209425     9.446022      5.995038
-0.001175   0.835010     36.510085
 0.28170    0.209425     9.446022      5.995038
-0.001175   -1.679222    32.548560
 0.42255    0.209425     9.446022      5.995038
-0.001175   -4.193454    28.587035
 0.56340    0.209425     9.446022      5.995038
-0.001175   -6.707686    24.625510

 ELEM       264 ================== LENGTH
=     2.977322

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43663    17.678667     -1.069773     3.810177
 0.000151   3.773360      14.167059
 0.57748    17.621410     -0.113774     3.810177
 0.000151   2.175637      14.415208
 0.71832    17.564153     0.842224      3.810177
 0.000151   0.577914      14.262477
 0.85916    17.506896     1.798223      3.810177
 0.000151   -1.019809     13.708867
 1.00000    17.449639     2.754222      3.810177
 0.000151   -2.617532     12.754378

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43663    55.763313    -17.303987     9.121536
 0.000121   0.036819      0.088190
 0.57748    55.763313    -17.303987     9.121536
 0.000121   5.211881      7.344279
 0.71832    55.763313    -17.303987     9.121536
 0.000121   1.386943      14.600369
 0.85916    55.763313    -17.303987     9.121536
 0.000121   -2.437996     21.856458
 1.00000    55.763313    -17.303987     9.121536
 0.000121   -6.262934     29.112547

 ELEM       265 ================== LENGTH
=     2.977382

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    22.092934     7.490448      3.674682
-0.000245   2.554830      12.741555
 0.14084    22.035355     8.446443      3.674682
-0.000245   1.240869      9.460024
 0.28169    21.977777     9.402437      3.674682
-0.000245   -0.527092     5.657600
 0.42253    21.920198     10.358432     3.674682
-0.000245   -2.068053     1.514285
 0.56337    21.862620     11.314427     3.674682
-0.000245   -3.609014     -3.029923

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    65.542246     14.977680     8.644971
-0.001425   6.016852      29.104109
 0.14084    65.542246     14.977680     8.644971
-0.001425   2.393623      22.823287
 0.28169    65.542246     14.977680     8.644971
-0.001425   -1.231606     16.542464
 0.42253    65.542246     14.977680     8.644971
-0.001425   -4.856836     10.261642
 0.56337    65.542246     14.977680     8.644971
-0.001425   -8.482065     3.980820
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                              Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                               123

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       266 ================== LENGTH
=     2.977820

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43656    34.354859     3.043177      3.413086
 9.78E-05   3.568752      21.109949
 0.57742    34.297594     3.999461      3.413086
 9.78E-05   2.137115      19.632914
 0.71828    34.240330     4.955745      3.413086
 9.78E-05   0.705479      17.754760
 0.85914    34.183065     5.912029      3.413086
 9.78E-05   -0.726157     15.475488
 1.00000    34.125801     6.868314      3.413086
 9.78E-05   -2.157793     12.795098

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43656    102.152434    -7.648590     8.200123
-0.000393   8.572649      7.694112
 0.57742    102.152434    -7.648590     8.200123
-0.000393   5.133066      10.902352
 0.71828    102.152434    -7.648590     8.200123
-0.000393   1.693482      14.110592
 0.85914    102.152434    -7.648590     8.200123
-0.000393   -1.746101     17.318832
 1.00000    102.152434    -7.648590     8.200123
-0.000393   -5.185684     20.527072

 ELEM       267 ================== LENGTH
=     2.976890

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    28.434207     10.819334     3.215581
-0.000150   2.049952      12.795365
 0.14083    28.376636     11.775048     3.215581
-0.000150   0.701908      8.059328
 0.28165    28.319065     12.730761     3.215581
-0.000150   -0.646135     2.922635
 0.42248    28.261494     13.686474     3.215581
-0.000150   -1.994179     -2.614714
 0.56330    28.203922     14.642187     3.215581
-0.000150   -3.342223     -8.552720

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    88.694601     0.824453      7.536358
-0.000836   4.805980      20.527089
 0.14083    88.694601     0.824453      7.536358
-0.000836   1.646569      20.181460
 0.28165    88.694601     0.824453      7.536358
-0.000836   -1.512642     19.835831
 0.42248    88.694601     0.824453      7.536358
-0.000836   -4.672252     19.490202
 0.56330    88.694601     0.824453      7.536358
-0.000836   -7.831663     19.144572

 ELEM       268 ================== LENGTH
=     2.976955

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43669    1.327283    -34.520817     -1.493367
-3.57E-05   -1.860231     -48.188869
 0.57752    1.270031     -33.565038     -1.493367
-3.57E-05   -1.234154     -33.916753
 0.71834    1.212779     -32.609239     -1.493367
-3.57E-05   -0.608076     -20.045340
 0.85917    1.155528     -31.653450     -1.493367
-3.57E-05   0.018001      -6.574632
 1.00000    1.098276     -30.697660     -1.493367
-3.57E-05   0.644078      6.493373
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                              Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                               124

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43669    3.433220    -94.494467     -3.618973
-0.000559   -4.503893     -136.113313
 0.57752    3.433220    -94.494467     -3.618973
-0.000559   -2.986679     -96.497559
 0.71834    3.433220    -94.494467     -3.618973
-0.000559   -1.469465     -56.881805
 0.85917    3.433220    -94.494467     -3.618973
-0.000559   0.047749      -17.266051
 1.00000    3.433220    -94.494467     -3.618973
-0.000559   1.564963      22.349703

 ELEM       269 ================== LENGTH
=     2.977946

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    0.230723    -25.283498     -1.477119
 0.000774   -0.626474     6.495183
 0.14086    0.173457     -24.327142     -1.477119
 0.000774   -0.006843     16.900649
 0.28173    0.116190     -23.370786     -1.477119
 0.000774   0.612788      26.904966
 0.42259    0.058924     -22.414430     -1.477119
 0.000774   1.232419      36.908104
 0.56346    0.001658     -21.458074     -1.477119
 0.000774   1.852051      45.710064

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    0.816823    -72.845102     -3.585270
 0.002986   -1.525239     22.348908
 0.14086    0.816823    -72.845102     -3.585270
 0.002986   -0.021267     52.906441
 0.28173    0.816823    -72.845102     -3.585270
 0.002986   1.482705      83.463973
 0.42259    0.816823    -72.845102     -3.585270
 0.002986   2.986678      114.021506
 0.56346    0.816823    -72.845102     -3.585270
 0.002986   4.490650      144.579039

 ELEM       270 ================== LENGTH
=     2.977332

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43663    1.949658    -11.126849     -1.753143
 0.000127   -1.923384     -3.969488
 0.57752    1.892401     -10.170842     -1.753143
 0.000127   -1.188233     0.495925
 0.71832    1.835144     -9.214840      -1.753143
 0.000127   -0.453083     4.560453
 0.85916    1.777887     -8.258835      -1.753143
 0.000127   0.282068      8.224097
 1.000000   1.720629     -7.302830      -1.753143
 0.000127   1.017219      11.486857

 LOAD     CONC --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.43663    6.162493    -37.958240     -4.253588
 0.000742   -4.665001     -24.021371
 0.57747    6.162493    -37.958240     -4.253588
 0.000742   -2.881331     -8.104229
 0.71832    6.162493    -37.958240     -4.253588
 0.000742   -1.097661     7.812912
 0.85916    6.162493    -37.958240     -4.253588
 0.000742   0.686008      23.730053
 1.00000    6.162493    -37.958240     -4.253588
 0.000742   2.469678      39.647195
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                              Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                               125

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       271 ================== LENGTH
=     2.977211

 LOAD     STEEL --------------------

 REL DIST          P             V2             V3
        T          M2            M3
 0.00000    1.553124    -0.987164      -1.718391
 0.000458   -0.986352     11.444756
 0.14084    1.495869     -0.031229      -1.718391
 0.000458   -0.265826     11.658263
 0.28167    1.438614     0.924707       -1.718391
 0.000458   0.454700      11.470945
 0.42251    1.381358     1.880642       -1.718391
 0.000458   1.175226      10.882799
```

```
 0.56335     1.324103     2.836577    -1.718391
 0.000458    1.895752     9.893828

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     4.230453     2.865721    -4.161639
 0.001244   -2.388439    39.594438
 0.14084     4.230453     2.865721    -4.161639
 0.001244   -0.643453    38.392833
 0.28167     4.230453     2.865721    -4.161639
 0.001244    1.101533    37.191229
 0.42251     4.230453     2.865721    -4.161639
 0.001244    2.846520    35.989624
 0.56335     4.230453     2.865721    -4.161639
 0.001244    4.591506    34.788020

ELEM      272 ================== LENGTH
=     2.977533

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43660     0.708039    -3.370607    -1.251763
 1.98E-05   -1.397057    13.128353
 0.57745     0.650779    -2.414488    -1.251763
 1.98E-05   -0.872089    14.341439
 0.71830     0.593519    -1.458368    -1.251763
 1.98E-05   -0.347120    15.153545
 0.85915     0.536258    -0.502248    -1.251763
 1.98E-05    0.177848    15.564669
 1.00000     0.478998     0.453872    -1.251763
 1.98E-05    0.702816    15.574813

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43660     2.303233    -14.808270    -3.049912
 0.000241   -3.402479    21.532995
 0.57745     2.303233    -14.808270    -3.049912
 0.000241   -2.123397    27.743336
 0.71830     2.303233    -14.808270    -3.049912
 0.000241   -0.844315    33.953677
 0.85915     2.303233    -14.808270    -3.049912
 0.000241    0.434767    40.164018
 1.00000     2.303233    -14.808270    -3.049912
 0.000241    1.713849    46.374359

ELEM      273 ================== LENGTH
=     2.976426

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     0.174479     7.479002    -1.209423
 0.000299   -0.663712    15.501703
 0.14081     0.117236     8.434488    -1.209423
 0.000299   -0.160435    12.166980
 0.28162     0.059992     9.389974    -1.209423
 0.000299    0.346442     8.431807
 0.42243     0.002749    10.345460    -1.209423
 0.000299    0.853319     4.296183
 0.56323    -0.054495    11.300946    -1.209423
 0.000299    1.360195    -0.239891
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              126

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     0.131777    26.125847    -2.928891
 0.000926   -1.613887    46.244461
 0.14081     0.131777    26.125847    -2.928891
 0.000926   -0.386370    35.294951
 0.28162     0.131777    26.125847    -2.928891
 0.000926    0.841147    24.345440
 0.42243     0.131777    26.125847    -2.928891
 0.000926    2.068664    13.395930
 0.56323     0.131777    26.125847    -2.928891
 0.000926    3.296181     2.446420

ELEM      274 ================== LENGTH
=     2.977811

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43656    -0.185057    -2.173466    -0.623633
 3.09E-06   -0.693772    17.084411
 0.57742    -0.242321    -1.217187    -0.623633
 3.09E-06   -0.432188    17.795520
 0.71828    -0.299585    -0.260908    -0.623633
 3.09E-06   -0.170603    18.105516
 0.85914    -0.356850     0.695371    -0.623633
 3.09E-06    0.090982    18.014397
 1.00000    -0.414114     1.651650    -0.623633
 3.09E-06    0.352566    17.522165

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43656    -0.489719    -10.540321    -1.521765
 0.000119   -1.692095    32.130524
 0.57742    -0.489719    -10.540321    -1.521765
 0.000119   -1.053786    36.551692
 0.71828    -0.489719    -10.540321    -1.521765
 0.000119   -0.415478    40.972859
 0.85914    -0.489719    -10.540321    -1.521765
 0.000119    0.222831    45.394027
 1.00000    -0.489719    -10.540321    -1.521765
 0.000119    0.861140    49.815195

ELEM      275 ================== LENGTH
=     2.977811

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -0.666687     8.409652    -0.601000
 0.000120   -0.333320    17.428845
 0.14086    -0.723952     9.365931    -0.601000
 0.000120   -0.081229    13.700835
 0.28172    -0.781216    10.322210    -0.601000
 0.000120    0.170862     9.571711
 0.42258    -0.838481    11.278489    -0.601000
 0.000120    0.422813     5.041474
 0.56344    -0.895745    12.234768    -0.601000
 0.000120    0.675044     0.110122

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -2.555446    30.121718    -1.459144
 0.000365   -0.808438    49.640803
 0.14086    -2.555446    30.121718    -1.459144
 0.000365   -0.196396    37.006162
 0.28172    -2.555446    30.121718    -1.459144
 0.000365    0.415646    24.371522
 0.42258    -2.555446    30.121718    -1.459144
 0.000365    1.027688    11.736881
 0.56344    -2.555446    30.121718    -1.459144
 0.000365    1.639730    -0.897760
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              127

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      276 ================== LENGTH
=     2.977174

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43666    -0.087502    -2.553024     0.069112
-1.46E-05    0.080698    17.215203
 0.57749    -0.144757    -1.597110     0.069112
-1.46E-05    0.051719    18.085265
 0.71833    -0.202012    -0.641196     0.069112
-1.46E-05    0.022741    18.554519
 0.85916    -0.259267     0.314719     0.069112
-1.46E-05   -0.006237    18.622963
 1.00000    -0.316522     1.270633     0.069112
-1.46E-05   -0.035215    18.290600

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43666    -0.336541    -11.362612     0.160600
-6.09E-05    0.188512    32.344152
 0.57749    -0.336541    -11.362612     0.160600
-6.09E-05    0.121174    37.108421
 0.71833    -0.336541    -11.362612     0.160600
-6.09E-05    0.053835    41.872690
 0.85916    -0.336541    -11.362612     0.160600
-6.09E-05   -0.013503    46.636960
 1.00000    -0.336541    -11.362612     0.160600
-6.09E-05   -0.080842    51.401229

ELEM      277 ================== LENGTH
=     2.977280

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -0.567168     7.973376     0.078422
-1.75E-05    0.043372    18.201899
 0.14084    -0.624424     8.929351     0.078422
-1.75E-05    0.010488    14.658073
 0.28168    -0.681660     9.885326     0.078422
-1.75E-05   -0.022396    10.713387
 0.42252    -0.738937    10.841301     0.078422
-1.75E-05   -0.055279     6.367841
 0.56336    -0.796193    11.797276     0.078422
-1.75E-05   -0.088163     1.621436

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -2.393020     29.067564     0.186120
-5.27E-05    0.103139    51.236866
 0.14084    -2.393020     29.067564     0.186120
-5.27E-05    0.025095    39.048253
 0.28168    -2.393020     29.067564     0.186120
-5.27E-05   -0.052949    26.859640
 0.42252    -2.393020     29.067564     0.186120
-5.27E-05   -0.130993    14.671027
 0.56336    -2.393020     29.067564     0.186120
-5.27E-05   -0.209037     2.482414

ELEM      278 ================== LENGTH
=     2.976714

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43672     0.141432    -2.720183     0.683990
-2.36E-05    0.769210    16.558366
 0.57754     0.084184    -1.764533     0.683990
-2.36E-05    0.482496    17.498314
 0.71836     0.026936    -0.808882     0.683990
-2.36E-05    0.195782    18.037674
 0.85918    -0.030312     0.146769     0.683990
-2.36E-05   -0.090931    18.176446
 1.00000    -0.087560     1.102420     0.683990
-2.36E-05   -0.377645    17.914630
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              128

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43672     0.327329    -12.930798     1.647349
-0.000194    1.853215    29.719825
 0.57754     0.327329    -12.930798     1.647349
-0.000194    1.162681    35.140136
 0.71836     0.327329    -12.930798     1.647349
-0.000194    0.472148    40.560447
 0.85918     0.327329    -12.930798     1.647349
-0.000194   -0.218385    45.980759
 1.00000     0.327329    -12.930798     1.647349
-0.000194   -0.908918    51.401070

ELEM      279 ================== LENGTH
=     2.977605

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -0.364769     7.701753     0.689803
-0.000147    0.382241    17.842749
 0.14085    -0.422030     8.657914     0.689803
-0.000147    0.092936    14.412116
 0.28170    -0.479291     9.614075     0.689803
-0.000147   -0.196368    10.580467
 0.42256    -0.536553    10.570236     0.689803
-0.000147   -0.485672     6.347803
 0.56341    -0.593814    11.526397     0.689803
-0.000147   -0.774976     1.714124

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -1.797342     27.281242     1.661573
-0.000457    0.920546    51.281811
 0.14085    -1.797342     27.281242     1.661573
-0.000457    0.223680    39.840021
 0.28170    -1.797342     27.281242     1.661573
-0.000457   -0.473186    28.398231
 0.42256    -1.797342     27.281242     1.661573
-0.000457   -1.170052    16.956441
 0.56341    -1.797342     27.281242     1.661573
-0.000457   -1.866918     5.514651

ELEM      280 ================== LENGTH
=     2.978210

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43650     0.053150    -3.473060     1.078749
-5.35E-05    1.213751    13.982759
 0.57738    -0.004121    -2.516553     1.078749
-5.35E-05    0.761159    15.239237
 0.71825    -0.061391    -1.560046     1.078749
-5.35E-05    0.308567    16.094410
 0.85913    -0.118661    -0.603539     1.078749
-5.35E-05   -0.144025    16.548279
 1.00000    -0.175932     0.352968     1.078749
-5.35E-05   -0.596616    16.600842

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43650     0.667509    -16.990543     2.595283
-0.000359    2.919900    21.659453
 0.57738     0.667509    -16.990543     2.595283
-0.000359    1.831043    28.787877
 0.71825     0.667509    -16.990543     2.595283
-0.000359    0.742186    35.916301
 0.85913     0.667509    -16.990543     2.595283
-0.000359   -0.346671    43.044725
 1.00000     0.667509    -16.990543     2.595283
-0.000359   -1.435529    50.173150
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              129

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      281 ================== LENGTH
=     2.977120

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -0.540861     7.358817     1.090473
-0.000242    0.603909    16.579249
 0.14083    -0.598115     8.314700     1.090473
-0.000242    0.146695    13.293453
 0.28167    -0.655369     9.270583     1.090473
-0.000242   -0.310519     9.606874
 0.42250    -0.712623    10.226467     1.090473
-0.000242   -0.767732     5.519512
 0.56334    -0.769877    11.182350     1.090473
-0.000242   -1.224946     1.031368

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -1.679572     24.349690     2.613966
-0.000738    1.446546    50.169493
 0.14083    -1.679572     24.349690     2.613966
-0.000738    0.350562    39.960154
 0.28167    -1.679572     24.349690     2.613966
-0.000738   -0.745421    29.750815
 0.42250    -1.679572     24.349690     2.613966
-0.000738   -1.841405    19.541477
 0.56334    -1.679572     24.349690     2.613966
-0.000738   -2.937389     9.332138

ELEM      282 ================== LENGTH
=     2.976802

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43671    -0.138315    -7.142641     1.152398
-6.85E-05    1.295025     5.560413
 0.57753    -0.195564    -6.186940     1.152398
-6.85E-05    0.811939     8.354296
 0.71836    -0.252814    -5.231239     1.152398
-6.85E-05    0.328853    10.747549
 0.85918    -0.310063    -4.275538     1.152398
-6.85E-05   -0.154233    12.740172
 1.00000    -0.367312    -3.319836     1.152398
-6.85E-05   -0.637319    14.332164

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43671     1.311786    -29.293865     2.756220
-0.000388    3.096387    -2.104251
 0.57753     1.311786    -29.293865     2.756220
-0.000388    1.940978    10.175751
 0.71836     1.311786    -29.293865     2.756220
-0.000388    0.785569    22.455752
 0.85918     1.311786    -29.293865     2.756220
-0.000388   -0.369840    34.735753
 1.00000     1.311786    -29.293865     2.756220
-0.000388   -1.525249    47.015755

ELEM      283 ================== LENGTH
=     2.977796

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -0.840903     4.113403     1.150401
-0.000324    0.635304    14.368818
 0.14086    -0.898167     5.069673     1.150401
-0.000324    0.152770    12.442902
 0.28172    -0.955432     6.025943     1.150401
-0.000324   -0.329765    10.115880
 0.42258    -1.012696     6.982214     1.150401
-0.000324   -0.812299     7.387751
 0.56344    -1.069960     7.938484     1.150401
-0.000324   -1.294833     4.258515
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              130

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000    -1.287076     12.898368     2.741628
-0.000977    1.513635    47.155159
 0.14086    -1.287076     12.898368     2.741628
-0.000977    0.363662    41.744952
 0.28172    -1.287076     12.898368     2.741628
-0.000977   -0.786311    36.334745
 0.42258    -1.287076     12.898368     2.741628
-0.000977   -1.936284    30.924538
 0.56344    -1.287076     12.898368     2.741628
-0.000977   -3.086257    25.514331

ELEM      284 ================== LENGTH
=     2.977458

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43661     0.930017    -16.483596     0.843819
-0.000137    0.951472    -12.315840
 0.57746     0.872758    -15.527519     0.843819
-0.000137    0.459764    -5.603678
 0.71831     0.815499    -14.571443     0.843819
-0.000137    0.243737     0.707538
 0.85915     0.758240    -13.615366     0.843819
-0.000137   -0.110131     6.617810
 1.00000     0.700981    -12.659290     0.843819
-0.000137   -0.463999    12.127138

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43661     3.733537    -57.369189     2.003077
-0.000581    2.257754    -52.148243
 0.57746     3.733537    -57.369189     2.003077
-0.000581    1.417735    -28.089647
 0.71831     3.733537    -57.369189     2.003077
-0.000581    0.577715     -4.031051
 0.85915     3.733537    -57.369189     2.003077
-0.000581   -0.262304    20.027544
 1.00000     3.733537    -57.369189     2.003077
-0.000581   -1.102323    44.086140

ELEM      285 ================== LENGTH
=     2.976463

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     0.093121     -4.533813     0.817872
-0.000240    0.443978    12.215988
 0.14081     0.035877     -3.578306     0.817872
-0.000240    0.101195    13.915946
 0.28162    -0.021367     -2.622798     0.817872
-0.000240   -0.241588    15.215436
 0.42243    -0.078612     -1.667291     0.817872
-0.000240   -0.584371    16.114458
 0.56324    -0.135856     -0.711783     0.817872
-0.000240   -0.927154    16.613012

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     0.762691    -12.409956     1.968959
-0.000630    1.075067    44.347795
 0.14081     0.762691    -12.409956     1.968959
-0.000630    0.249845    49.544003
 0.28162     0.762691    -12.409956     1.968959
-0.000630   -0.575377    54.745212
 0.42243     0.762691    -12.409956     1.968959
-0.000630   -1.400600    59.946420
 0.56324     0.762691    -12.409956     1.968959
-0.000630   -2.225822    65.147628
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              131

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      286 ================== LENGTH
=     2.977195

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43665     2.671684    -24.347219     0.146217
 0.000116    0.156695    -25.426177
 0.57749     2.614429    -23.391293     0.146217
 0.000116    0.095386    -15.417826
 0.71833     2.557174    -22.435366     0.146217
 0.000116    0.034077     -5.810293
 0.85916     2.499919    -21.479440     0.146217
 0.000116   -0.027232     3.396420
 1.00000     2.442663    -20.523514     0.146217
 0.000116   -0.088540    12.202315

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43665     5.987956    -76.971434     0.463238
 0.000614    0.495266    -87.691102
 0.57749     5.987956    -76.971434     0.463238
 0.000614    0.301031    -55.417070
 0.71833     5.987956    -76.971434     0.463238
 0.000614    0.106796    -23.143037
 0.85916     5.987956    -76.971434     0.463238
 0.000614   -0.087440     9.130995
 1.00000     5.987956    -76.971434     0.463238
 0.000614   -0.281675    41.405027

ELEM      287 ================== LENGTH
=     2.978190

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     1.649590    -10.235033     0.149903
-0.000131    0.090909    12.333363
 0.14087     1.592320     -9.278537     0.149903
-0.000131    0.028017    16.426798
 0.28175     1.535050     -8.322042     0.149903
-0.000131   -0.034874    20.118938
 0.42262     1.477780     -7.365546     0.149903
-0.000131   -0.097766    23.409782
 0.56349     1.420510     -6.409050     0.149903
-0.000131   -0.160657    26.299331

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     3.010588    -33.416461     0.468799
-0.000668    0.285444    41.735383
 0.14087     3.010588    -33.416461     0.468799
-0.000668    0.088760    55.755177
 0.28175     3.010588    -33.416461     0.468799
-0.000668   -0.107923    69.774972
 0.42262     3.010588    -33.416461     0.468799
-0.000668   -0.304807    83.794766
 0.56349     3.010588    -33.416461     0.468799
-0.000668   -0.501290    97.814561

ELEM      288 ================== LENGTH
=     2.977394

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43662     1.167423    -17.536785    -0.427605
-2.04E-05   -0.466446    -15.432899
 0.57747     1.110165    -16.580744    -0.427605
-2.04E-05   -0.287130    -8.279330
 0.71831     1.052907    -15.624704    -0.427605
-2.04E-05   -0.107814     -1.526676
 0.85916     0.995649    -14.668664    -0.427605
-2.04E-05    0.071501     4.825065
 1.00000     0.938391    -13.712623    -0.427605
-2.04E-05    0.250817    10.775891
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                              132

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.43662     3.971858    -57.567907    -0.825509
-0.000277   -0.899066    -57.777007
 0.57747     3.971858    -57.567907    -0.825509
-0.000277   -0.552890    -33.635986
 0.71831     3.971858    -57.567907    -0.825509
-0.000277   -0.206714     -9.494966
 0.85916     3.971858    -57.567907    -0.825509
-0.000277    0.139462    14.646054
 1.00000     3.971858    -57.567907    -0.825509
-0.000277    0.485638    38.787075

ELEM      289 ================== LENGTH
=     2.976399

LOAD     STEEL --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     0.486466     -7.523555    -0.399584
 0.000279   -0.230185    10.865772
 0.14081     0.429223     -6.569084    -0.399584
 0.000279   -0.062719    13.808674
 0.28162     0.371979     -5.612613    -0.399584
 0.000279    0.104746    16.361138
 0.42242     0.314736     -4.657142    -0.399584
 0.000279    0.272212    18.513164
 0.56323     0.257493     -3.701672    -0.399584
 0.000279    0.439678    20.264752

LOAD     CONC --------------------

REL DIST          P           V2          V3
         T          M2          M3
 0.00000     1.653412    -22.522880    -0.784570
 0.001096   -0.454978    39.000707
 0.14081     1.653412    -22.522880    -0.784570
 0.001096   -0.126165    48.440041
 0.28162     1.653412    -22.522880    -0.784570
 0.001096    0.202648    57.879375
 0.42242     1.653412    -22.522880    -0.784570
 0.001096    0.531461    67.318710
```

0.56323 1.653412 -22.522880 -0.784570
0.001096 0.860274 76.758044

ELEM 290 ========== LENGTH = 2.977259

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43664 -0.125499 -9.126129 -0.814872
0.000105 -0.915261 1.720067
0.57748 -0.182756 -8.170166 -0.814872
0.000105 -0.577574 5.346361
0.71832 -0.240012 -7.214203 -0.814872
0.000105 -0.235886 8.571807
0.85916 -0.297268 -6.258241 -0.814872
0.000105 0.105802 11.396404
1.00000 -0.354524 -5.302278 -0.814872
0.000105 0.447490 13.820151

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43664 1.620172 -36.250002 -1.788760
0.000564 -2.017283 -13.883314
0.57748 1.620172 -36.250002 -1.788760
0.000564 -1.267230 1.316843
0.71832 1.620172 -36.250002 -1.788760
0.000564 -0.517176 16.517001
0.85916 1.620172 -36.250002 -1.788760
0.000564 0.232877 31.717158
1.00000 1.620172 -36.250002 -1.788760
0.000564 0.982930 46.917315
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 133
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 291 ========== LENGTH = 2.977259

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.875457 2.338206 -0.810734
0.000228 -0.443747 13.881667
0.14084 -0.932713 3.294169 -0.810734
0.000228 -0.103795 12.700798
0.28168 -0.989969 4.250132 -0.810734
0.000228 0.236158 11.119080
0.42252 -1.047225 5.206094 -0.810734
0.000228 0.576110 9.136513
0.56336 -1.104481 6.162057 -0.810734
0.000228 0.916063 6.753097

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.167405 7.658675 -1.766133
0.000601 -0.964563 47.126316
0.14084 -1.167405 7.658675 -1.766133
0.000601 -0.223998 43.914921
0.28168 -1.167405 7.658675 -1.766133
0.000601 0.517668 40.703527
0.42252 -1.167405 7.658675 -1.766133
0.000601 1.257133 37.492132
0.56336 -1.167405 7.658675 -1.766133
0.000601 1.997698 34.280738

ELEM 292 ========== LENGTH = 2.977267

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43664 -0.040590 -4.145672 -0.904584
1.28E-05 -1.017038 12.582247
0.57748 -0.097846 -3.189705 -0.904584
1.28E-05 -0.637731 14.120170
0.71832 -0.155102 -2.233738 -0.904584
1.28E-05 -0.258424 15.257240
0.85916 -0.212359 -1.277770 -0.904584
1.28E-05 0.120883 15.993457
1.00000 -0.269615 -0.321803 -0.904584
1.28E-05 0.500190 16.328821

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43664 0.667366 -19.538389 -2.059746
0.000237 -2.315692 17.404456
0.57748 0.667366 -19.538389 -2.059746
0.000237 -1.452006 25.597229
0.71832 0.667366 -19.538389 -2.059746
0.000237 -0.588320 33.790002
0.85916 0.667366 -19.538389 -2.059746
0.000237 0.275366 41.982775
1.00000 0.667366 -19.538389 -2.059746
0.000237 1.139052 50.175548

ELEM 293 ========== LENGTH = 2.977199

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.694634 7.008252 -0.908983
0.000255 -0.502247 16.337991
0.14084 -0.751869 7.964180 -0.908983
0.000255 -0.121110 13.199023
0.28167 -0.809144 8.920109 -0.908983
0.000255 0.260026 9.659234
0.42251 -0.866400 9.876037 -0.908983
0.000255 0.641162 5.718625
0.56335 -0.923655 10.831965 -0.908983
0.000255 1.022299 1.377195
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 134
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.821488 22.347366 -2.053316
0.000784 -1.131595 50.253905
0.14084 -1.821488 22.347366 -2.053316
0.000784 -0.270641 40.883661
0.28167 -1.821488 22.347366 -2.053316
0.000784 0.590314 31.513416
0.42251 -1.821488 22.347366 -2.053316
0.000784 1.451269 22.143172
0.56335 -1.821488 22.347366 -2.053316
0.000784 2.312224 12.772928

ELEM 294 ========== LENGTH = 2.977215

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43665 0.171579 -2.717488 -0.695627
4.04E-05 -0.781998 16.598862
0.57749 0.114324 -1.761550 -0.695627
4.04E-05 -0.490318 17.537901
0.71832 0.057069 -0.805613 -0.695627
4.04E-05 -0.198639 18.076111
0.85916 -0.000187 0.150325 -0.695627
4.04E-05 0.093040 18.213493
1.00000 -0.057442 1.106263 -0.695627
4.04E-05 0.384719 17.950047

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43665 0.490369 -13.527843 -1.607000
0.000270 -1.607161 29.517949
0.57749 0.490369 -13.527843 -1.607000
0.000270 -1.133340 35.190225
0.71832 0.490369 -13.527843 -1.607000
0.000270 -0.459518 40.862500
0.85916 0.490369 -13.527843 -1.607000
0.000270 0.214303 46.534775
1.00000 0.490369 -13.527843 -1.607000
0.000270 0.888124 52.207051

ELEM 295 ========== LENGTH = 2.977215

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.380852 7.770999 -0.696079
0.000129 -0.384023 17.914873
0.14084 -0.438108 8.726936 -0.696079
0.000129 -0.092154 14.456050
0.28168 -0.495363 9.682874 -0.696079
0.000129 0.199714 10.596399
0.42251 -0.552619 10.638812 -0.696079
0.000129 0.491583 6.335920
0.56335 -0.609874 11.594749 -0.696079
0.000129 0.783452 1.674612

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.764325 26.970865 -1.602486
0.000413 -0.882311 52.183198
0.14084 -1.764325 26.970865 -1.602486
0.000413 -0.210383 40.874213
0.28168 -1.764325 26.970865 -1.602486
0.000413 0.461545 29.565229
0.42251 -1.764325 26.970865 -1.602486
0.000413 1.133474 18.256244
0.56335 -1.764325 26.970865 -1.602486
0.000413 1.805402 6.947259
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 135
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 296 ========== LENGTH = 2.977307

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43664 0.239578 -2.900942 -0.261750
-3.28E-06 -0.293434 17.207091
0.57748 0.182322 -1.944952 -0.261750
-3.28E-06 -0.183676 18.223097
0.71832 0.125065 -0.988961 -0.261750
-3.28E-06 -0.073917 17.839231
0.85916 0.067808 -0.032971 -0.261750
-3.28E-06 0.035842 19.052493
1.00000 0.010551 0.923020 -0.261750
-3.28E-06 0.145601 18.865883

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43664 0.567822 -12.792257 -0.604595
4.76E-05 -0.677942 31.774818
0.57748 0.567822 -12.792257 -0.604595
4.76E-05 -0.424419 37.138953
0.71832 0.567822 -12.792257 -0.604595
4.76E-05 -0.170896 42.503089
0.85916 0.567822 -12.792257 -0.604595
4.76E-05 0.082627 47.867224
1.00000 0.567822 -12.792257 -0.604595
4.76E-05 0.336149 53.231360

ELEM 297 ========== LENGTH = 2.977365

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.277170 7.573998 -0.259844
6.34E-05 -0.143692 18.810068
0.14084 -0.334427 8.530021 -0.259844
6.34E-05 -0.034728 15.433528
0.28169 -0.391685 9.486045 -0.259844
6.34E-05 0.074235 11.656088
0.42253 -0.448943 10.442063 -0.259844
6.34E-05 0.183198 7.877749
0.56337 -0.506201 11.398092 -0.259844
6.34E-05 0.292161 2.898509

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.585965 27.458381 -0.598591
0.000194 -0.330355 53.153819
0.14084 -1.585965 27.458381 -0.598591
0.000194 -0.079341 41.639388
0.28169 -1.585965 27.458381 -0.598591
0.000194 0.171673 30.124957
0.42253 -1.585965 27.458381 -0.598591
0.000194 0.422686 18.610525
0.56337 -1.585965 27.458381 -0.598591
0.000194 0.673700 7.096094

ELEM 298 ========== LENGTH = 2.977475

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.235772 -2.920295 0.248152
7.47E-06 0.278555 17.116324
0.57746 0.178512 -1.964209 0.248152
7.47E-06 0.174488 18.140528
0.71831 0.121253 -1.008122 0.248152
7.47E-06 0.070421 18.763780
0.85915 0.063994 -0.052036 0.248152
7.47E-06 -0.033646 18.986078
1.00000 0.006734 0.904050 0.248152
7.47E-06 -0.137713 18.807424
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 136
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.564760 -12.844415 0.583046
-3.78E-05 0.655327 31.512368
0.57746 0.564760 -12.844415 0.583046
-3.78E-05 0.410815 36.898914
0.71831 0.564760 -12.844415 0.583046
-3.78E-05 0.166304 42.285460
0.85915 0.564760 -12.844415 0.583046
-3.78E-05 -0.078208 47.672006
1.00000 0.564760 -12.844415 0.583046
-3.78E-05 -0.322719 53.058552

ELEM 299 ========== LENGTH = 2.977528

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.280073 7.557468 0.250565
-5.93E-05 0.139423 18.748030
0.14085 -0.337333 8.513585 0.250565
-5.93E-05 0.034340 15.378075
0.28170 -0.394593 9.469702 0.250565
-5.93E-05 -0.070742 11.607142
0.42255 -0.451854 10.425818 0.250565
-5.93E-05 -0.175825 7.435231
0.56340 -0.509114 11.381935 0.250565
-5.93E-05 -0.280907 2.862342

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.587555 27.416813 0.591800
-0.000188 0.329292 52.975250
0.14085 -1.587555 27.416813 0.591800
-0.000188 0.081102 41.477133
0.28170 -1.587555 27.416813 0.591800
-0.000188 -0.167089 29.979016
0.42255 -1.587555 27.416813 0.591800
-0.000188 -0.415279 18.480900
0.56340 -1.587555 27.416813 0.591800
-0.000188 -0.663469 6.982783

ELEM 300 ========== LENGTH = 2.976770

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43672 0.162504 -2.665653 0.693486
-3.51E-05 0.779700 16.487668
0.57754 0.105255 -1.709970 0.693486
-3.51E-05 0.488996 17.404782
0.71836 0.048007 -0.754287 0.693486
-3.51E-05 0.198292 17.921281
0.85918 -0.009242 0.201396 0.693486
-3.51E-05 -0.092412 18.037165
1.00000 -0.066491 1.157078 0.693486
-3.51E-05 -0.383116 17.752434

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43672 0.489129 -13.414461 1.608174
-0.000255 1.809494 29.127281
0.57754 0.489129 -13.414461 1.608174
-0.000255 1.135360 34.750522
0.71836 0.489129 -13.414461 1.608174
-0.000255 0.461226 40.373762
0.85918 0.489129 -13.414461 1.608174
-0.000255 -0.212909 45.997002
1.00000 0.489129 -13.414461 1.608174
-0.000255 -0.887043 51.620242
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 137
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 301 ========== LENGTH = 2.977767

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.383068 7.765901 0.696912
-0.000129 0.385388 17.713863
0.14086 -0.440332 8.722154 0.696912
-0.000129 0.093074 14.255975
0.28172 -0.497595 9.678408 0.696912
-0.000129 -0.199240 10.396994
0.42257 -0.554859 10.634661 0.696912
-0.000129 -0.491554 6.136920
0.56343 -0.612123 11.590914 0.696912
-0.000129 -0.783868 1.475754

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.750609 26.948221 1.615863
-0.000418 0.892567 51.589058
0.14086 -1.750609 26.948221 1.615863
-0.000418 0.271807 40.285852
0.28172 -1.750609 26.948221 1.615863
-0.000418 -0.462953 28.982645
0.42257 -1.750609 26.948221 1.615863
-0.000418 -1.140714 17.679439
0.56343 -1.750609 26.948221 1.615863
-0.000418 -1.818474 6.376232

ELEM 302 ========== LENGTH = 2.977084

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43667 -0.043487 -4.160603 0.920436
-1.28E-05 1.035190 12.283976
0.57750 -0.100741 -3.204740 0.920436
-1.28E-05 0.649278 13.828014
0.71833 -0.157994 -2.248878 0.920436
-1.28E-05 0.263366 14.971286
0.85917 -0.215248 -1.293015 0.920436
-1.28E-05 -0.122547 15.713792
1.00000 -0.272501 -0.337152 0.920436
-1.28E-05 -0.508459 16.055533

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43667 0.678116 -19.553878 2.095433
-0.000242 2.357586 16.538100
0.57750 0.678116 -19.553878 2.095433
-0.000242 1.479032 24.736474
0.71833 0.678116 -19.553878 2.095433
-0.000242 0.600477 32.934848
0.85917 0.678116 -19.553878 2.095433
-0.000242 -0.278077 41.133222
1.00000 0.678116 -19.553878 2.095433
-0.000242 -1.156631 49.331596

ELEM 303 ========== LENGTH = 2.977084

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.693737 7.016526 0.929777
-0.000254 0.514746 16.060611
0.14083 -0.750991 7.972389 0.929777
-0.000254 0.124917 12.918403
0.28167 -0.808244 8.928252 0.929777
-0.000254 -0.264912 9.375428
0.42250 -0.865498 9.884115 0.929777
-0.000254 -0.654740 5.431689
0.56333 -0.922751 10.839977 0.929777
-0.000254 -1.044569 1.087183
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 138
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.807755 22.455158 2.107598
-0.000779 1.164902 49.404135
0.14083 -1.807755 22.455158 2.107598
-0.000779 0.281247 39.989339
0.28167 -1.807755 22.455158 2.107598
-0.000779 -0.602408 30.574542
0.42250 -1.807755 22.455158 2.107598
-0.000779 -1.486063 21.159746
0.56333 -1.807755 22.455158 2.107598
-0.000779 -2.369718 11.744949

ELEM 304 ========== LENGTH = 2.977474

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43661 -0.053117 -8.999342 0.852063
-9.51E-05 0.961938 1.517612
0.57746 -0.110376 -8.043256 0.852063
-9.51E-05 0.604609 5.091177
0.71831 -0.167636 -7.087170 0.852063
-9.51E-05 0.247281 8.263790
0.85915 -0.224895 -6.131084 0.852063
-9.51E-05 -0.110047 11.035450
1.00000 -0.282154 -5.174998 0.852063
-9.51E-05 -0.467375 13.406157

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43661 1.706927 -35.497623 1.864637
-0.000512 2.105977 -14.077555
0.57746 1.706927 -35.497623 1.864637
-0.000512 1.324007 0.809032
0.71831 1.706927 -35.497623 1.864637
-0.000512 0.542037 15.695619
0.85915 1.706927 -35.497623 1.864637
-0.000512 -0.239933 30.582206
1.00000 1.706927 -35.497623 1.864637
-0.000512 -1.021903 45.468794

ELEM 305 ========== LENGTH = 2.976477

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.791856 2.358834 0.856123
-0.000243 0.470000 13.457039
0.14081 -0.849100 3.314349 0.856123
-0.000243 0.111183 12.268169
0.28162 -0.906345 4.269865 0.856123
-0.000243 -0.247635 10.678824
0.42243 -0.963589 5.225380 0.856123
-0.000243 -0.606452 8.689004
0.56324 -1.020834 6.180895 0.856123
-0.000243 -0.965270 6.298710

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.041510 7.905766 1.871111
-0.000660 1.026624 45.648069
0.14081 -1.041510 7.905766 1.871111
-0.000660 0.242405 42.334610
0.28162 -1.041510 7.905766 1.871111
-0.000660 -0.541813 39.021152
0.42243 -1.041510 7.905766 1.871111
-0.000660 -1.326031 35.707694
0.56324 -1.041510 7.905766 1.871111
-0.000660 -2.110250 32.394235
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 139
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 306 ========== LENGTH = 2.977940

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43654 1.260695 -17.242554 0.494334
-1.00E-05 0.539605 -15.176345
0.57741 1.203429 -16.262101 0.494334
-1.00E-05 0.332239 -9.143938
0.71827 1.146162 -15.329849 0.494334
-1.00E-05 0.124874 -1.512707
0.85914 1.088896 -14.373496 0.494334
-1.00E-05 -0.082492 4.717348
1.00000 1.031630 -13.417143 0.494334
-1.00E-05 -0.289858 10.546227

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43654 4.064497 -56.595881 0.961565
0.000110 1.049506 -56.624320
0.57741 4.064497 -56.595881 0.961565
0.000110 0.646144 -32.883191
0.71827 4.064497 -56.595881 0.961565
0.000110 0.242782 -9.142062
0.85914 4.064497 -56.595881 0.961565
0.000110 -0.160580 14.599066
1.00000 4.064497 -56.595881 0.961565
0.000110 -0.563942 38.340195

ELEM 307 ========== LENGTH = 2.976943

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.572888 -6.730313 0.477588
-0.000257 0.278380 10.633479
0.14083 0.515637 -5.774531 0.477588
-0.000257 0.078158 13.254717
0.28166 0.458386 -4.818750 0.477588
-0.000257 -0.122064 15.475258
0.42248 0.401134 -3.862968 0.477588
-0.000257 -0.322286 17.295101
0.56331 0.343883 -2.907186 0.477588
-0.000257 -0.522508 18.714246

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.635873 -18.828606 0.957152
-0.000944 0.563309 38.579856
0.14083 1.635873 -18.828606 0.957152
-0.000944 0.162036 46.473480
0.28166 1.635873 -18.828606 0.957152
-0.000944 -0.239236 54.367103
0.42248 1.635873 -18.828606 0.957152
-0.000944 -0.640508 62.260727
0.56331 1.635873 -18.828606 0.957152
-0.000944 -1.041780 70.154350

ELEM 308 ========== LENGTH = 2.977599

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43659 2.557458 -22.161579 -0.061587
1.79E-06 -0.063044 -23.076373
0.57745 2.500197 -21.205422 -0.061587
1.79E-06 -0.037214 -13.982320
0.71830 2.442936 -20.249265 -0.061587

1.79E-06 -0.011385 -5.289279
0.85915 2.385674 -19.293108 -0.061587
1.79E-06 0.014445 3.002750
1.00000 2.328413 -18.336950 -0.061587
1.79E-06 0.040275 10.893767
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
140

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43659 5.575375 -66.402521 -0.294272
4.83E-06 -0.304168 -76.172982
0.57745 5.575375 -66.402521 -0.294272
4.83E-06 -0.180750 -48.323786
0.71830 5.575375 -66.402521 -0.294272
4.83E-06 -0.057333 -20.474590
0.85915 5.575375 -66.402521 -0.294272
4.83E-06 0.066085 7.374606
1.00000 5.575375 -66.402521 -0.294272
4.83E-06 0.189503 35.223801

ELEM 309 ========== LENGTH = 2.976630

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.586743 -9.829003 -0.047885
3.69E-06 -0.286574 10.974763
0.14082 1.529496 -8.873400 -0.047885
3.69E-06 -0.008602 14.894390
0.28163 1.472249 -7.917797 -0.047885
3.69E-06 0.011469 18.413469
0.42245 1.415003 -6.962194 -0.047885
3.69E-06 0.031540 21.531999
0.56326 1.357756 -6.006591 -0.047885
3.69E-06 0.051612 24.249981

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 3.041092 -32.794925 -0.254485
2.51E-05 -0.155619 35.418133
0.14082 3.041092 -32.794925 -0.254485
2.51E-05 -0.048950 49.164375
0.28163 3.041092 -32.794925 -0.254485
2.51E-05 0.057719 62.910616
0.42245 3.041092 -32.794925 -0.254485
2.51E-05 0.164389 76.656858
0.56326 3.041092 -32.794925 -0.254485
2.51E-05 0.271058 90.403099

ELEM 310 ========== LENGTH = 2.977323

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43663 1.272978 -17.382515 -0.612179
1.04E-05 -0.663568 -15.437611
0.57748 1.215720 -16.426515 -0.612179
1.04E-05 -0.406862 -8.349027
0.71832 1.158463 -15.470515 -0.612179
1.04E-05 -0.150157 -1.661323
0.85916 1.101206 -14.514516 -0.612179
1.04E-05 0.106549 4.625501
1.00000 1.043949 -13.558516 -0.612179
1.04E-05 0.363255 10.511445

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43663 4.097452 -56.899195 -1.515550
-0.000109 -1.638726 -57.163695
0.57748 4.097452 -56.899195 -1.515550
-0.000109 -1.003209 -33.304108
0.71832 4.097452 -56.899195 -1.515550
-0.000109 -0.367692 -9.444522
0.85916 4.097452 -56.899195 -1.515550
-0.000109 0.267825 14.415065
1.00000 4.097452 -56.899195 -1.515550
-0.000109 0.903342 38.274651
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
141

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 311 ========== LENGTH = 2.977349

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.602214 -6.855691 -0.569783
0.000270 -0.323474 10.601941
0.14084 0.544957 -5.899676 -0.569783
0.000270 -0.091542 13.276342
0.28169 0.487699 -4.943661 -0.569783
0.000270 0.147389 15.549850
0.42253 0.430442 -3.987647 -0.569783
0.000270 0.386320 17.422465
0.56337 0.373184 -3.031632 -0.569783
0.000270 0.625252 18.894188

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.758752 -19.055467 -1.436797
0.001009 -0.840417 38.521701
0.14084 1.758752 -19.055467 -1.436797
0.001009 -0.237914 46.512369
0.28169 1.758752 -19.055467 -1.436797
0.001009 0.364588 54.503038
0.42253 1.758752 -19.055467 -1.436797
0.001009 0.967090 62.493706
0.56337 1.758752 -19.055467 -1.436797
0.001009 1.569593 70.484375

ELEM 312 ========== LENGTH = 2.977992

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43654 -0.024078 -9.097763 -0.967079
0.000100 -1.087522 1.293827
0.57740 -0.081346 -8.141381 -0.967079
0.000100 -0.681834 4.909721
0.71827 -0.138613 -7.184998 -0.967079
0.000100 -0.276146 8.124414
0.85913 -0.195880 -6.228616 -0.967079
0.000100 0.129542 10.937906
1.00000 -0.253147 -5.272233 -0.967079
0.000100 0.535230 13.350198

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43654 1.806576 -35.729683 -2.375382
0.000527 -2.668507 -14.618286
0.57740 1.806576 -35.729683 -2.375382
0.000527 -1.672039 0.370246
0.71827 1.806576 -35.729683 -2.375382
0.000527 -0.675571 15.358777
0.85913 1.806576 -35.729683 -2.375382
0.000527 0.320897 30.347309
1.00000 1.806576 -35.729683 -2.375382
0.000527 1.317366 45.335840

ELEM 313 ========== LENGTH = 2.976994

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.763816 2.224683 -0.950530
0.000255 -0.520400 13.399957
0.14083 -0.821068 3.180494 -0.950530
0.000255 -0.121891 12.266901
0.28166 -0.878320 4.136305 -0.950530
0.000255 0.276617 10.733122
0.42249 -0.935573 5.092117 -0.950530
0.000255 0.675126 8.798621
0.56332 -0.992825 6.047928 -0.950530
0.000255 1.073634 6.463398
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
142

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.940308 7.600340 -2.321179
0.000721 -1.270379 45.507273
0.14083 -0.940308 7.600340 -2.321179
0.000721 -0.297228 42.320841
0.28166 -0.940308 7.600340 -2.321179
0.000721 0.675922 39.134410
0.42249 -0.940308 7.600340 -2.321179
0.000721 1.649073 35.947978
0.56332 -0.940308 7.600340 -2.321179
0.000721 2.622224 32.761547

ELEM 314 ========== LENGTH = 2.977713

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43658 -0.012312 -4.250299 -1.045443
4.96E-07 -1.172536 12.213659
0.57743 -0.069575 -3.294076 -1.045443
4.96E-07 -0.734048 13.795820
0.71829 -0.126837 -2.337854 -1.045443
4.96E-07 -0.295560 14.976915
0.85914 -0.184100 -1.381632 -1.045443
4.96E-07 0.142929 15.756944
1.00000 -0.241363 -0.425409 -1.045443
4.96E-07 0.581417 16.135905

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43658 0.775116 -19.666390 -2.589548
0.000215 -2.903014 16.526518
0.57743 0.775116 -19.666390 -2.589548
0.000215 -1.816885 24.775156
0.71829 0.775116 -19.666390 -2.589548
0.000215 -0.730756 33.023793
0.85914 0.775116 -19.666390 -2.589548
0.000215 0.355373 41.272430
1.00000 0.775116 -19.666390 -2.589548
0.000215 1.441503 49.521068

ELEM 315 ========== LENGTH = 2.977713

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.682779 7.232124 -1.037290
0.000289 -0.572900 16.139965
0.14086 -0.740041 8.188346 -1.037290
0.000289 -0.137832 12.906076
0.28171 -0.797304 9.144569 -1.037290
0.000289 0.297237 9.271120
0.42257 -0.854567 10.100791 -1.037290
0.000289 0.732305 5.235097
0.56342 -0.911830 11.057013 -1.037290
0.000289 1.167374 0.798008

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.753700 23.201466 -2.549568
0.000896 -1.405521 49.581947
0.14086 -1.753700 23.201466 -2.549568
0.000896 -0.336161 39.850599
0.28171 -1.753700 23.201466 -2.549568
0.000896 0.733200 30.119251
0.42257 -1.753700 23.201466 -2.549568
0.000896 1.802560 20.387904
0.56342 -1.753700 23.201466 -2.549568
0.000896 2.871921 10.656556
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
143

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 316 ========== LENGTH = 2.977509

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.181364 -2.557058 -0.816391
5.49E-05 -0.916480 16.625894
0.57745 0.124104 -1.600952 -0.816391
5.49E-05 -0.574104 17.497781
0.71830 0.066844 -0.644846 -0.816391
5.49E-05 -0.231728 17.968699
0.85915 0.009585 0.311269 -0.816391
5.49E-05 0.110647 18.038649
1.00000 -0.047676 1.267365 -0.816391
5.49E-05 0.453023 17.707629

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.523561 -12.863061 -2.021858
0.000318 -2.269965 29.685202
0.57745 0.523561 -12.863061 -2.021858
0.000318 -1.422044 35.079675
0.71830 0.523561 -12.863061 -2.021858
0.000318 -0.574122 40.474149
0.85915 0.523561 -12.863061 -2.021858
0.000318 0.273799 45.868622
1.00000 0.523561 -12.863061 -2.021858
0.000318 1.121720 51.263096

ELEM 317 ========== LENGTH = 2.977509

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.355822 7.785942 -0.808078
0.000133 -0.444831 17.660553
0.14085 -0.413082 8.741947 -0.808078
0.000133 -0.105941 14.194865
0.28170 -0.470341 9.698053 -0.808078
0.000133 0.232949 10.328208
0.42255 -0.527601 10.654159 -0.808078
0.000133 0.571838 6.060581
0.56339 -0.584861 11.610264 -0.808078
0.000133 0.910728 1.391986

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.663075 27.080261 -1.993235
0.000442 -1.095224 51.195130
0.14085 -1.663075 27.080261 -1.993235
0.000442 -0.259307 39.838288
0.28170 -1.663075 27.080261 -1.993235
0.000442 0.576610 28.481446
0.42255 -1.663075 27.080261 -1.993235
0.000442 1.412528 17.124604
0.56339 -1.663075 27.080261 -1.993235
0.000442 2.248445 5.767762

ELEM 318 ========== LENGTH = 2.977380

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.249474 -2.982732 -0.336506
-1.10E-05 -0.376389 17.017230
0.57747 0.192216 -2.026700 -0.336506
-1.10E-05 -0.235277 18.067571
0.71831 0.134958 -1.070668 -0.336506
-1.10E-05 -0.094165 18.717004
0.85916 0.077700 -0.114636 -0.336506
-1.10E-05 0.046947 18.965529
1.00000 0.020442 0.841396 -0.336506
-1.10E-05 0.188059 18.813148
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
144

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.586048 -12.962688 -0.807669
3.05E-05 -0.903408 31.020688
0.57747 0.586048 -12.962688 -0.807669
3.05E-05 -0.564716 36.456526
0.71831 0.586048 -12.962688 -0.807669
3.05E-05 -0.226024 41.892365
0.85916 0.586048 -12.962688 -0.807669
3.05E-05 0.112668 47.328203
1.00000 0.586048 -12.962688 -0.807669
3.05E-05 0.451360 52.764042

ELEM 319 ========== LENGTH = 2.976382

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.252653 7.424379 -0.331358
7.93E-05 -0.183088 18.743060
0.14081 -0.309896 8.379840 -0.331358
7.93E-05 -0.044218 15.431322
0.28161 -0.367139 9.335301 -0.331358
7.93E-05 -0.004653 11.719154
0.42242 -0.424382 10.290761 -0.331358
7.93E-05 0.233524 7.606557
0.56323 -0.481625 11.246222 -0.331358
7.93E-05 0.372394 3.093531

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.499941 26.975056 -0.793173
0.000242 -0.437596 52.634921
0.14081 -1.499941 26.975056 -0.793173
0.000242 -0.105181 41.329797
0.28161 -1.499941 26.975056 -0.793173
0.000242 0.227234 30.024673
0.42242 -1.499941 26.975056 -0.793173
0.000242 0.559650 18.719549
0.56323 -1.499941 26.975056 -0.793173
0.000242 0.892065 7.414426

ELEM 320 ========== LENGTH = 2.977328

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.245196 -2.980395 0.227820
1.13E-05 0.255736 17.015500
0.57747 0.187939 -2.024392 0.227820
1.13E-05 0.160204 18.064833
0.71832 0.130682 -1.068390 0.227820
1.13E-05 0.064672 18.713285
0.85916 0.073425 -0.112387 0.227820
1.13E-05 -0.030860 18.960853
1.00000 0.016167 0.843615 0.227820
1.13E-05 -0.126393 18.807540

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.577017 -12.948117 0.617577
-2.76E-05 0.693695 31.025397
0.57747 0.577017 -12.948117 0.617577
-2.76E-05 0.434726 36.454958
0.71832 0.577017 -12.948117 0.617577
-2.76E-05 0.175756 41.884518
0.85916 0.577017 -12.948117 0.617577
-2.76E-05 -0.083214 47.314079
1.00000 0.577017 -12.948117 0.617577
-2.76E-05 -0.342183 52.743640
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
145

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 321 ========== LENGTH = 2.977327

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.254656 7.432904 0.230244
-6.46E-05 0.128104 18.732189
0.14084 -0.311913 8.388906 0.230244
-6.46E-05 0.031556 15.414895
0.28168 -0.369170 9.344908 0.230244
-6.46E-05 -0.064993 11.696719
0.42253 -0.426427 10.300910 0.230244
-6.46E-05 -0.161542 7.577661
0.56337 -0.483684 11.256912 0.230244
-6.46E-05 -0.258091 3.057721

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.505245 27.001600 0.624737
-0.000215 0.347312 52.604997
0.14084 -1.505245 27.001600 0.624737
-0.000215 0.085340 41.282368
0.28168 -1.505245 27.001600 0.624737
-0.000215 -0.176632 29.959739
0.42253 -1.505245 27.001600 0.624737
-0.000215 -0.438604 18.637110
0.56337 -1.505245 27.001600 0.624737
-0.000215 -0.700576 7.314480

ELEM 322 ========== LENGTH = 2.977346

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.164769 -2.501680 0.728052
-5.40E-05 0.818846 16.670398
0.57747 0.107511 -1.545668 0.728052
-5.40E-05 0.513548 17.518999
0.71832 0.050254 -0.589655 0.728052
-5.40E-05 0.208249 17.966708
0.85916 -0.007004 0.366358 0.728052
-5.40E-05 -0.097050 18.013526
1.00000 -0.064261 1.322370 0.728052
-5.40E-05 -0.402349 17.659454

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.488252 -12.753016 1.863118
-0.000315 2.095838 29.780618
0.57747 0.488252 -12.753016 1.863118
-0.000315 1.314565 35.128423
0.71832 0.488252 -12.753016 1.863118
-0.000315 0.533292 40.476228
0.85916 0.488252 -12.753016 1.863118
-0.000315 -0.247981 45.824034
1.00000 0.488252 -12.753016 1.863118
-0.000315 -1.029254 51.171839

ELEM 323 ========== LENGTH = 2.977350

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.357706 7.702781 0.728455
-0.000123 0.401567 17.605191
0.14084 -0.414964 8.658796 0.728455
-0.000123 0.096098 14.174680
0.28169 -0.472221 9.614811 0.728455
-0.000123 -0.209371 10.743277
0.42253 -0.529479 10.570826 0.728455
-0.000123 -0.514839 6.110980
0.56337 -0.586736 11.526840 0.728455
-0.000123 -0.820308 1.477790
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
146

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.673653 26.943519 1.859051
-0.000423 1.023539 51.091142
0.14084 -1.673653 26.943519 1.859051
-0.000423 0.243969 39.792716
0.28169 -1.673653 26.943519 1.859051
-0.000423 -0.535600 28.494289
0.42253 -1.673653 26.943519 1.859051
-0.000423 -1.315170 17.195862
0.56337 -1.673653 26.943519 1.859051
-0.000423 -2.094740 5.897436

ELEM 324 ========== LENGTH = 2.977439

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.013580 -4.278216 0.989678
-4.13E-06 1.111429 12.219294
0.57746 -0.070839 -3.322150 0.989678
-4.13E-06 0.696398 13.812938
0.71831 -0.128098 -2.366084 0.989678
-4.13E-06 0.281367 15.005646
0.85915 -0.185357 -1.410018 0.989678
-4.13E-06 -0.133664 15.797419
1.00000 -0.242615 -0.453952 0.989678
-4.13E-06 -0.548695 16.188256

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.759926 -19.678622 2.479795
-0.000221 2.783899 16.607171
0.57746 0.759926 -19.678622 2.479795
-0.000221 1.743972 24.859594
0.71831 0.759926 -19.678622 2.479795
-0.000221 0.704046 33.112017
0.85915 0.759926 -19.678622 2.479795
-0.000221 -0.335880 41.364440
1.00000 0.759926 -19.678622 2.479795
-0.000221 -1.375806 49.616863

ELEM 325 ========== LENGTH = 2.977448

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.677511 7.235252 0.990898
-0.000282 0.548156 16.183930
0.14085 -0.734770 8.191323 0.990898
-0.000282 0.132611 12.949270
0.28169 -0.792029 9.147394 0.990898
-0.000282 -0.282934 9.713670
0.42254 -0.849288 10.103465 0.990898
-0.000282 -0.698479 5.277131
0.56338 -0.906547 11.059536 0.990898
-0.000282 -1.114024 0.839651

LOAD CONC ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.759517 23.243856 2.466330
-0.000882 1.362292 49.660743
0.14085 -1.759517 23.243856 2.466330
-0.000882 0.328006 39.913153
0.28169 -1.759517 23.243856 2.466330
-0.000882 -0.706279 30.165563
0.42254 -1.759517 23.243856 2.466330
-0.000882 -1.740564 20.417972
0.56338 -1.759517 23.243856 2.466330
-0.000882 -2.774849 10.670382
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
147

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 326 ========== LENGTH = 2.976624

LOAD STEEL ----------

REL DIST P V2 V3
T M2 M3
0.43674 0.042336 -9.044151 0.951194
-0.000104 1.070013 1.441965
0.57755 -0.014911 -8.088552 0.951194
-0.000104 0.671314 5.032602
0.71837 -0.072157 -7.132952 0.951194
-0.000104 0.272616 8.222694
0.85918 -0.129404 -6.177353 0.951194
-0.000104 -0.126083 11.012241
1.00000 -0.186650 -5.221754 0.951194
-0.000104 -0.524781 13.401242

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43674	1.929106	-35.559477	2.325854
-0.000535	2.614431	-14.188818	
0.57755	1.929106	-35.559477	2.325854
-0.000535	1.639536	0.716148	
0.71837	1.929106	-35.559477	2.325854
-0.000535	0.664640	15.621114	
0.85918	1.929106	-35.559477	2.325854
-0.000535	-0.310255	30.526080	
1.00000	1.929106	-35.559477	2.325854
-0.000535	-1.285150	45.431046	

ELEM 327 ========== LENGTH = 2.977608

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.686264	2.229905	0.940110
-0.000257	0.516009	13.442322	
0.14085	-0.743525	3.186067	0.940110
-0.000257	0.121725	12.306587	
0.28170	-0.800786	4.142230	0.940110
-0.000257	-0.272559	10.769836	
0.42256	-0.858048	5.098392	0.940110
-0.000257	-0.666843	8.832068	
0.56341	-0.915309	6.054555	0.940110
-0.000257	-1.061127	6.493284	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.802178	7.690115	2.288891
-0.000725	1.256204	45.590556	
0.14085	-0.802178	7.690115	2.288891
-0.000725	0.296239	42.365307	
0.28170	-0.802178	7.690115	2.288891
-0.000725	-0.663727	39.140057	
0.42256	-0.802178	7.690115	2.288891
-0.000725	-1.623692	35.914808	
0.56341	-0.802178	7.690115	2.288891
-0.000725	-2.583657	32.689558	

ELEM 328 ========== LENGTH = 2.976854

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43670	1.515193	-17.292627	0.639186
-1.72E-05	0.694035	-15.171600	
0.57753	1.457943	-16.336896	0.639186
-1.72E-05	0.426080	-8.122624	
0.71835	1.400693	-15.381165	0.639186
-1.72E-05	0.158124	-1.474304	
0.85918	1.343443	-14.425434	0.639186
-1.72E-05	-0.109831	4.773361	
1.00000	1.286193	-13.469702	0.639186
-1.72E-05	-0.377787	10.620371	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 148
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43670	4.641240	-56.603074	1.523521
9.26E-05	1.650904	-56.401707	
0.57753	4.641240	-56.603074	1.523521
9.26E-05	1.012223	-32.672931	
0.71835	4.641240	-56.603074	1.523521
9.26E-05	0.373543	-8.944156	
0.85918	4.641240	-56.603074	1.523521
9.26E-05	-0.265138	14.784620	
1.00000	4.641240	-56.603074	1.523521
9.26E-05	-0.903818	38.513396	

ELEM 329 ========== LENGTH = 2.977871

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.862786	-6.778103	0.606866
-0.000279	0.354113	10.697795	
0.14086	0.808521	-5.821790	0.606866
-0.000279	0.099553	13.340420	
0.28172	0.748256	-4.865476	0.606866
-0.000279	-0.155008	15.581902	
0.42258	0.690990	-3.909163	0.606866
-0.000279	-0.409569	17.422242	
0.56345	0.633725	-2.952850	0.606866
-0.000279	-0.664129	18.861438	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.323813	-18.775629	1.472812
-0.001023	0.866096	38.734658	
0.14086	2.323813	-18.775629	1.472812
-0.001023	0.248299	46.610430	
0.28172	2.323813	-18.775629	1.472812
-0.001023	-0.369498	54.486202	
0.42258	2.323813	-18.775629	1.472812
-0.001023	-0.987295	62.361974	
0.56345	2.323813	-18.775629	1.472812
-0.001023	-1.605092	70.237746	

ELEM 330 ========== LENGTH = 2.977081

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43667	2.889882	-21.992458	0.126368
-7.49E-06	0.132738	-22.724025	
0.57750	2.832628	-21.036597	0.126368
-7.49E-06	0.057375	-13.770321	
0.71833	2.775375	-20.080736	0.126368
-7.49E-06	0.026773	-5.083981	
0.85917	2.718121	-19.124874	0.126368
-7.49E-06	-0.026210	3.134894	
1.00000	2.660868	-18.169013	0.126368
-7.49E-06	-0.079193	10.953005	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43667	6.365037	-65.947498	0.351606
-1.91E-05	0.368919	-75.198522	
0.57750	6.365037	-65.947498	0.351606
-1.91E-05	0.221501	-47.548691	
0.71833	6.365037	-65.947498	0.351606
-1.91E-05	0.074083	-19.898859	
0.85917	6.365037	-65.947498	0.351606
-1.91E-05	-0.073335	7.750972	
1.00000	6.365037	-65.947498	0.351606
-1.91E-05	-0.220753	35.400003	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 149
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 331 ========== LENGTH = 2.977081

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.942855	-9.828523	0.129167
-2.08E-05	0.081390	11.032742	
0.14083	1.885601	-8.872662	0.129167
-2.08E-05	0.027234	14.953169	
0.28167	1.828348	-7.916801	0.129167
-2.08E-05	-0.026922	18.472831	
0.42250	1.771094	-6.960939	0.129167
-2.08E-05	-0.081078	21.591729	
0.56333	1.713841	-6.005078	0.129167
-2.08E-05	-0.135234	24.309862	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.865946	-32.624989	0.355127
-5.56E-05	0.223329	35.597405	
0.14083	3.865946	-32.624989	0.355127
-5.56E-05	0.074435	49.276096	
0.28167	3.865946	-32.624989	0.355127
-5.56E-05	-0.074459	62.954787	
0.42250	3.865946	-32.624989	0.355127
-5.56E-05	-0.223353	76.633478	
0.56333	3.865946	-32.624989	0.355127
-5.56E-05	-0.372247	90.312169	

ELEM 332 ========== LENGTH = 2.977323

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.519618	-17.414909	-0.402888
2.27E-06	-0.438311	-15.350447	
0.57748	1.462361	-16.458909	-0.402888
2.27E-06	-0.269368	-8.258279	
0.71832	1.405104	-15.502909	-0.402888
2.27E-06	-0.100424	-1.556991	
0.85916	1.347847	-14.546910	-0.402888
2.27E-06	0.068519	4.743416	
1.00000	1.290590	-13.590910	-0.402888
2.27E-06	0.237463	10.642944	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.668336	-56.944590	-0.867139
-0.000129	-0.941274	-56.940322	
0.57748	4.668336	-56.944280	-0.867139
-0.000129	-0.577656	-33.061831	
0.71832	4.668336	-56.944280	-0.867139
-0.000129	-0.214038	-9.183339	
0.85916	4.668336	-56.944280	-0.867139
-0.000129	0.149579	14.695153	
1.00000	4.668336	-56.944280	-0.867139
-0.000129	0.513197	38.573645	

ELEM 333 ========== LENGTH = 2.977323

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.824411	-6.946313	-0.367211
0.000236	-0.210824	10.715450	
0.14084	0.767154	-5.990313	-0.367211
0.000236	-0.056842	13.427813	
0.28168	0.709897	-5.034313	-0.367211
0.000236	0.097141	15.739296	
0.42252	0.652640	-4.078314	-0.367211
0.000236	0.251124	17.649899	
0.56337	0.595383	-3.122314	-0.367211
0.000236	0.405107	19.159621	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 150
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.232393	-19.235975	-0.813139
0.000908	-0.472420	38.780274	
0.14084	2.232393	-19.235975	-0.813139
0.000908	-0.131446	46.846511	
0.28168	2.232393	-19.235975	-0.813139
0.000908	0.209528	54.912749	
0.42252	2.232393	-19.235975	-0.813139
0.000908	0.550502	62.978986	
0.56337	2.232393	-19.235975	-0.813139
0.000908	0.891477	71.045223	

ELEM 334 ========== LENGTH = 2.976751

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.021275	-9.134504	-0.741294
8.84E-05	-0.834801	1.357977	
0.57754	-0.035973	-8.178832	-0.741294
8.84E-05	-0.524059	4.986746	
0.71836	-0.093222	-7.223159	-0.741294
8.84E-05	-0.213317	8.214910	
0.85918	-0.150470	-6.267487	-0.741294
8.84E-05	0.097424	11.042467	
1.00000	-0.207719	-5.311815	-0.741294
8.84E-05	0.408166	13.469418	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	1.884507	-35.810578	-1.741929
0.000496	-1.960814	-14.438103	
0.57754	1.884507	-35.810578	-1.741929
0.000496	-1.230618	0.573255	
0.71836	1.884507	-35.810578	-1.741929
0.000496	-0.500422	15.584613	
0.85918	1.884507	-35.810578	-1.741929
0.000496	0.229773	30.595971	
1.00000	1.884507	-35.810578	-1.741929
0.000496	0.959969	45.607329	

ELEM 335 ========== LENGTH = 2.977749

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.708203	2.125659	-0.725790
0.000215	-0.395798	13.516944	
0.14086	-0.765467	3.081903	-0.725790
0.000215	-0.091375	12.424821	
0.28171	-0.822730	4.038146	-0.725790
0.000215	0.213048	10.931615	
0.42257	-0.879994	4.994389	-0.725790
0.000215	0.517472	9.037324	
0.56343	-0.937257	5.950633	-0.725790
0.000215	0.821895	6.741949	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.849004	7.405282	-1.697511
0.000613	-0.925060	45.783131	
0.14086	-0.849004	7.405282	-1.697511
0.000613	-0.213060	42.677080	
0.28171	-0.849004	7.405282	-1.697511
0.000613	0.498939	39.571029	
0.42257	-0.849004	7.405282	-1.697511
0.000613	1.210938	36.464978	
0.56343	-0.849004	7.405282	-1.697511
0.000613	1.922937	33.358927	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 151
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 336 ========== LENGTH = 2.977217

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-0.030481	-4.227955	-0.806126
-3.56E-06	-0.905236	12.317357	
0.57749	-0.087737	-3.272017	-0.806126
-3.56E-06	-0.567224	13.889742	
0.71832	-0.144992	-2.316078	-0.806126
-3.56E-06	-0.229212	15.061298	
0.85916	-0.202248	-1.360139	-0.806126
-3.56E-06	0.108800	15.832024	
1.00000	-0.259503	-0.404201	-0.806126
-3.56E-06	0.446812	16.201922	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	0.720581	-19.560159	-1.964699
0.000202	-2.206070	16.870550	
0.57749	0.720581	-19.560159	-1.964699
0.000202	-1.382263	25.072207	
0.71832	0.720581	-19.560159	-1.964699
0.000202	-0.558457	33.273864	
0.85916	0.720581	-19.560159	-1.964699
0.000202	0.265350	41.475522	
1.00000	0.720581	-19.560159	-1.964699
0.000202	1.089156	49.677179	

ELEM 337 ========== LENGTH = 2.977253

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.690654	7.052081	-0.801411
0.000237	-0.441536	16.208513	
0.14084	-0.747910	8.007960	-0.801411
0.000237	-0.105494	13.051093	
0.28168	-0.805166	8.963919	-0.801411
0.000237	0.230548	9.492827	
0.42252	-0.862422	9.919879	-0.801411
0.000237	0.566591	5.533715	
0.56336	-0.919678	10.875838	-0.801411
0.000237	0.902633	1.173756	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.790130	22.777090	-1.938728
0.000762	-1.065796	49.751011	
0.14084	-1.790130	22.777090	-1.938728
0.000762	-0.252862	40.200278	
0.28168	-1.790130	22.777090	-1.938728
0.000762	0.560072	30.649544	
0.42252	-1.790130	22.777090	-1.938728
0.000762	1.373006	21.098811	
0.56336	-1.790130	22.777090	-1.938728
0.000762	2.185940	11.548078	

ELEM 338 ========== LENGTH = 2.976832

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.143777	-2.601186	-0.602274
3.28E-05	-0.676079	16.746547	
0.57753	0.086528	-1.645468	-0.602274
3.28E-05	-0.423601	17.636663	
0.71835	0.029278	-0.689749	-0.602274
3.28E-05	-0.171123	18.126134	
0.85918	-0.027972	0.265970	-0.602274
3.28E-05	0.081356	18.214959	
1.00000	-0.085221	1.221688	-0.602274
3.28E-05	0.333834	17.903140	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 152
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.437853	-13.014167	-1.497089
0.000260	-1.681569	30.022235	
0.57753	0.437853	-13.014167	-1.497089
0.000260	-1.053977	35.477878	
0.71835	0.437853	-13.014167	-1.497089
0.000260	-0.426386	40.933521	
0.85918	0.437853	-13.014167	-1.497089
0.000260	0.201206	46.389165	
1.00000	0.437853	-13.014167	-1.497089
0.000260	0.828798	51.844808	

ELEM 339 ========== LENGTH = 2.977829

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.406082	7.768031	-0.593959
0.000100	-0.326274	17.870398	
0.14086	-0.463346	8.724320	-0.593959
0.000100	-0.077133	14.411479	
0.28172	-0.520611	9.680610	-0.593959
0.000100	0.172007	10.551437	
0.42258	-0.577876	10.636899	-0.593959
0.000100	0.421147	6.290273	
0.56344	-0.635140	11.593188	-0.593959
0.000100	0.670288	1.627986	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.793794	27.097995	-1.472499
0.000360	-0.807235	51.818457	
0.14086	-1.793794	27.097995	-1.472499
0.000360	-0.189584	40.452004	
0.28172	-1.793794	27.097995	-1.472499
0.000360	0.428067	29.085551	
0.42258	-1.793794	27.097995	-1.472499
0.000360	1.045717	17.719097	
0.56344	-1.793794	27.097995	-1.472499
0.000360	1.663368	6.352644	

ELEM 340 ========== LENGTH = 2.977485

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.260175	-2.936124	-0.197828
-2.09E-05	-0.220217	17.363696	
0.57746	0.202915	-1.980033	-0.197828
-2.09E-05	-0.137253	18.394543	
0.71831	0.145656	-1.023941	-0.197828
-2.09E-05	-0.054290	19.024433	
0.85915	0.088396	-0.067849	-0.197828
-2.09E-05	0.028673	19.253365	
1.00000	0.031137	0.888243	-0.197828
-2.09E-05	0.111636	19.081340	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.606080	-12.852809	-0.497319
1.48E-06	-0.554447	31.993317	
0.57746	0.606080	-12.852809	-0.497319
1.48E-06	-0.345886	37.383414	
0.71831	0.606080	-12.852809	-0.497319
1.48E-06	-0.137325	42.773512	
0.85915	0.606080	-12.852809	-0.497319
1.48E-06	0.071236	48.163609	
1.00000	0.606080	-12.852809	-0.497319
1.48E-06	0.279797	53.553706	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 153
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 341 ========== LENGTH = 2.977439

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.266025	7.495358	-0.191074
4.73E-05	-0.105593	19.035811	
0.14085	-0.323284	8.451423	-0.191074
4.73E-05	-0.025465	15.692093	
0.28169	-0.380543	9.407489	-0.191074
4.73E-05	0.054664	11.947439	
0.42254	-0.437801	10.363555	-0.191074
4.73E-05	0.134792	7.801850	
0.56338	-0.495060	11.319621	-0.191074
4.73E-05	0.214921	3.255325	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.543524	27.144654	-0.481694
0.000166	-0.265729	53.488217	
0.14085	-1.543524	27.144654	-0.481694
0.000166	-0.063726	42.104844	
0.28169	-1.543524	27.144654	-0.481694
0.000166	0.138277	30.721471	
0.42254	-1.543524	27.144654	-0.481694
0.000166	0.340280	19.338099	
0.56338	-1.543524	27.144654	-0.481694
0.000166	0.542283	7.954726	

ELEM 342 ========== LENGTH = 2.977165

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.363480	-2.953149	0.240791
-3.45E-06	0.272370	17.505776	
0.57749	0.306226	-1.997240	0.240791
-3.45E-06	0.171408	18.543603	
0.71833	0.248971	-1.041331	0.240791
-3.45E-06	0.070447	19.180626	
0.85916	0.191716	-0.085422	0.240791
-3.45E-06	-0.030515	19.416845	
1.00000	0.134461	0.870487	0.240791
-3.45E-06	-0.131477	19.252259	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.829685	-12.944390	0.606263
-6.88E-05	0.685671	32.355477	
0.57749	0.829685	-12.944390	0.606263
-6.88E-05	0.431470	37.782945	
0.71833	0.829685	-12.944390	0.606263
-6.88E-05	0.177269	43.210414	
0.85916	0.829685	-12.944390	0.606263
-6.88E-05	-0.076932	48.637882	
1.00000	0.829685	-12.944390	0.606263
-6.88E-05	-0.331133	54.065350	

ELEM 343 ========== LENGTH = 2.977215

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.171086	7.460992	0.246351
-7.17E-05	0.135997	19.212895	
0.14084	-0.228342	8.416930	0.246351
-7.17E-05	0.032701	15.884058	
0.28168	-0.285597	9.372868	0.246351
-7.17E-05	-0.070595	12.154392	
0.42251	-0.342853	10.328806	0.246351
-7.17E-05	-0.173891	8.023898	
0.56335	-0.400108	11.284744	0.246351
-7.17E-05	-0.277186	3.492576	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page 154
< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.339021	27.011235	0.619108
-0.000228	0.341477	54.015870	
0.14084	-1.339021	27.011235	0.619108
-0.000228	0.081882	42.689954	
0.28168	-1.339021	27.011235	0.619108
-0.000228	-0.177712	31.364039	
0.42251	-1.339021	27.011235	0.619108
-0.000228	-0.437307	20.038123	
0.56335	-1.339021	27.011235	0.619108
-0.000228	-0.696902	8.712208	

ELEM 344 ========== LENGTH = 2.976966

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43669	0.330229	-2.872566	0.565909
-6.36E-05	0.639252	17.042927	
0.57751	0.272978	-1.916770	0.565909
-6.36E-05	0.402000	18.046872	
0.71834	0.215726	-0.960975	0.565909
-6.36E-05	0.164747	18.650107	
0.85917	0.158474	-0.005179	0.565909
-6.36E-05	-0.072505	18.852633	
1.00000	0.101222	0.950616	0.565909
-6.36E-05	-0.309757	18.654450	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43669	0.836416	-13.827507	1.425422
-0.000343	1.610062	30.772057	
0.57751	0.836416	-13.827507	1.425422
-0.000343	1.012466	36.569123	
0.71834	0.836416	-13.827507	1.425422
-0.000343	0.414870	42.366189	
0.85917	0.836416	-13.827507	1.425422
-0.000343	-0.182726	48.163255	
1.00000	0.836416	-13.827507	1.425422
-0.000343	-0.780322	53.960321	

ELEM 345 ========== LENGTH = 2.977963

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.271840	7.978926	0.574740
-0.000105	0.316388	18.646790	
0.14086	-0.329107	8.935292	0.574740
-0.000105	0.075290	15.099110	
0.28173	-0.386674	9.891658	0.574740
-0.000105	-0.165809	11.150245	
0.42259	-0.443640	10.848024	0.574740
-0.000105	-0.406907	6.800192	
0.56346	-0.500907	11.804390	0.574740
-0.000105	-0.648005	2.048953	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-1.516147	27.415678	1.439104
-0.000375	0.790463	53.992009	
0.14086	-1.516147	27.415678	1.439104
-0.000375	0.186772	42.491386	
0.28173	-1.516147	27.415678	1.439104
-0.000375	-0.416919	30.990762	
0.42259	-1.516147	27.415678	1.439104
-0.000375	-1.020610	19.490138	
0.56346	-1.516147	27.415678	1.439104
-0.000375	-1.624300	7.989514	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 155

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 346 ========== LENGTH = 2.977840

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43656	-0.320015	-4.158329	0.643140
-1.33E-05	0.727615	13.361642	
0.57742	-0.377260	-3.202033	0.643140
-1.33E-05	0.457844	14.905331	
0.71828	-0.434544	-2.245738	0.643140
-1.33E-05	0.188072	16.047893	
0.85914	-0.491809	-1.289442	0.643140
-1.33E-05	-0.081699	16.789326	
1.00000	-0.549074	-0.333146	0.643140
-1.33E-05	-0.351471	17.129632	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43656	0.071179	-19.849804	1.605180
-0.000242	1.814246	19.127300	
0.57742	0.071179	-19.849804	1.605180
-0.000242	1.140937	27.453501	
0.71828	0.071179	-19.849804	1.605180
-0.000242	0.467628	35.779702	
0.85914	0.071179	-19.849804	1.605180
-0.000242	-0.205682	44.105903	
1.00000	0.071179	-19.849804	1.605180
-0.000242	-0.878991	52.432104	

ELEM 347 ========== LENGTH = 2.976844

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-1.002234	6.995516	0.667424
-0.000231	0.369013	17.164628	
0.14082	-1.059484	7.951242	0.667424
-0.000231	0.089222	14.031705	
0.28165	-1.116734	8.906967	0.667424
-0.000231	-0.190569	10.498131	
0.42247	-1.173984	9.862693	0.667424
-0.000231	-0.470361	6.563907	
0.56330	-1.231233	10.818418	0.667424
-0.000231	-0.750152	2.229032	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-2.485287	22.123064	1.641944
-0.000756	0.904910	52.568730	
0.14082	-2.485287	22.123064	1.641944
-0.000756	0.216589	43.294498	
0.28165	-2.485287	22.123064	1.641944
-0.000756	-0.471732	34.020265	
0.42247	-2.485287	22.123064	1.641944
-0.000756	-1.160053	24.746033	
0.56330	-2.485287	22.123064	1.641944
-0.000756	-1.848374	15.471800	

ELEM 348 ========== LENGTH = 2.976798

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43671	-1.069373	-9.191499	0.444745
-0.000116	0.507625	2.940527	
0.57753	-1.126622	-8.235800	0.444745
-0.000116	0.321188	6.593284	
0.71836	-1.183871	-7.280101	0.444745
-0.000116	0.134751	9.845412	
0.85918	-1.241120	-6.324402	0.444745
-0.000116	-0.051686	12.696912	
1.00000	-1.298370	-5.368703	0.444745
-0.000116	-0.238123	15.147784	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 156

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43671	-0.433804	-37.268988	1.078833
-0.000587	1.229613	-37.268988	1.078833
0.57753	-0.433804	-37.268988	1.078833
-0.000587	0.776366	3.630457	
0.71836	-0.433804	-37.268988	1.078833
-0.000587	0.324120	19.253596	
0.85918	-0.433804	-37.268988	1.078833
-0.000587	-0.128127	34.876735	
1.00000	-0.433804	-37.268988	1.078833
-0.000587	-0.580373	50.499874	

ELEM 349 ========== LENGTH = 2.977728

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-1.843354	2.306803	0.456343
-0.000168	0.247801	15.233178	
0.14086	-1.900617	3.263035	0.456343
-0.000168	0.056396	14.065094	
0.28171	-1.957880	4.219266	0.456343
-0.000168	-0.135009	12.495936	
0.42257	-2.015144	5.175497	0.456343
-0.000168	-0.326414	10.525703	
0.56343	-2.072407	6.131729	0.456343
-0.000168	-0.517819	8.154397	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-3.284902	6.762522	1.089298
-0.000475	0.590221	50.764087	
0.14086	-3.284902	6.762522	1.089298
-0.000475	0.133334	47.927669	
0.28171	-3.284902	6.762522	1.089298
-0.000475	-0.323552	45.091251	
0.42257	-3.284902	6.762522	1.089298
-0.000475	-0.780438	42.254832	
0.56343	-3.284902	6.762522	1.089298
-0.000475	-1.237325	39.418414	

ELEM 350 ========== LENGTH = 2.976757

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43672	0.965673	-16.674257	-0.076037
1.39E-05	-0.075007	-11.895574	
0.57754	0.908425	-15.718582	-0.076037
1.39E-05	-0.043134	-5.106211	
0.71836	0.851176	-14.762907	-0.076037
1.39E-05	-0.011260	1.282544	
0.85918	0.793927	-13.807231	-0.076037
1.39E-05	0.020614	7.270690	
1.00000	0.736679	-12.851556	-0.076037
1.39E-05	0.052488	12.858228	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43672	3.571043	-56.925344	-0.213574
0.000280	-0.217729	-51.324989	
0.57754	3.571043	-56.925344	-0.213574
0.000280	-0.128201	-27.462502	
0.71836	3.571043	-56.925344	-0.213574
0.000280	-0.038673	-3.600015	
0.85918	3.571043	-56.925344	-0.213574
0.000280	0.050855	20.262472	
1.00000	3.571043	-56.925344	-0.213574
0.000280	0.140383	44.124960	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 157

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 351 ========== LENGTH = 2.977823

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.148276	-6.628210	-0.114554
-0.000195	0.078180	12.966010	
0.14086	0.091011	-5.671925	-0.114554
-0.000195	-0.030130	15.545692	
0.28172	0.033747	-4.715639	-0.114554
-0.000195	0.017920	17.724254	
0.42258	-0.023518	-3.759354	-0.114554
-0.000195	0.065970	19.501696	
0.56344	-0.080782	-2.803068	-0.114554
-0.000195	0.114021	20.878019	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.949378	-21.764747	-0.279322
-0.000901	-0.183700	44.410633	
0.14086	0.949378	-21.764747	-0.279322
-0.000901	-0.066537	53.539982	
0.28172	0.949378	-21.764747	-0.279322
-0.000901	0.050626	62.669330	
0.42258	0.949378	-21.764747	-0.279322
-0.000901	0.167790	71.798678	
0.56344	0.949378	-21.764747	-0.279322
-0.000901	0.284953	80.928027	

ELEM 352 ========== LENGTH = 2.976557

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43675	3.632984	-21.628380	-0.770479
-0.000112	-0.826812	-18.111961	
0.57753	3.575739	-20.672819	-0.770479
-0.000112	-0.503874	-9.246913	
0.71837	3.518493	-19.717257	-0.770479
-0.000112	-0.180936	-0.782378	
0.85919	3.461247	-18.761696	-0.770479
-0.000112	0.142002	7.281644	
1.00000	3.404002	-17.806134	-0.770479
-0.000112	0.464941	14.945152	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43675	8.181990	-72.383594	-1.810410
-0.000572	-1.941191	-73.133995	
0.57756	8.181990	-72.383594	-1.810410
-0.000572	-1.182377	-42.795182	
0.71837	8.181990	-72.383594	-1.810410
-0.000572	-0.423563	-12.456369	
0.85919	8.181990	-72.383594	-1.810410
-0.000572	0.335251	17.882444	
1.00000	8.181990	-72.383594	-1.810410
-0.000572	1.094065	48.221257	

ELEM 353 ========== LENGTH = 2.977553

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	2.686704	-7.430874	-0.758746
0.000220	-0.453436	15.087138	
0.14085	2.629444	-6.474743	-0.758746
0.000220	-0.135227	18.003064	
0.28170	2.572183	-5.518612	-0.758746
0.000220	0.182982	20.518000	
0.42255	2.514923	-4.562481	-0.758746
0.000220	0.501191	22.631946	
0.56340	2.457662	-3.606350	-0.758746
0.000220	0.819401	24.344901	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 158

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	5.343744	-28.535474	-1.783593
0.000892	-1.068597	48.581440	
0.14085	5.343744	-28.535474	-1.783593
0.000892	-0.320579	60.548881	
0.28170	5.343744	-28.535474	-1.783593
0.000892	0.427439	72.516323	
0.42255	5.343744	-28.535474	-1.783593
0.000892	1.175457	84.483764	
0.56340	5.343744	-28.535474	-1.783593
0.000892	1.923475	96.451205	

ELEM 354 ========== LENGTH = 2.976714

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43672	0.522186	-15.476330	-1.568009
0.000153	-1.756197	-8.506769	
0.57754	0.464938	-14.520679	-1.568009
0.000153	-1.098921	-2.219720	
0.71836	0.407690	-13.565028	-1.568009
0.000153	-0.441646	3.666741	
0.85918	0.350442	-12.609378	-1.568009
0.000153	0.215630	9.152614	
1.00000	0.293194	-11.653727	-1.568009
0.000153	0.872905	14.237899	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43672	2.865027	-56.064006	-3.633192
0.000672	-4.069180	-44.707639	
0.57754	2.865027	-56.064006	-3.633192
0.000672	-2.546224	-21.206818	
0.71836	2.865027	-56.064006	-3.633192
0.000672	-1.023268	2.294002	
0.85918	2.865027	-56.064006	-3.633192
0.000672	0.499687	25.794823	
1.00000	2.865027	-56.064006	-3.633192
0.000672	2.022643	49.295644	

ELEM 355 ========== LENGTH = 2.977709

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.352672	-3.340285	-1.493909
0.000333	-0.815828	14.352812	
0.14086	-0.410135	-2.384065	-1.493909
0.000333	-0.189242	15.553285	
0.28171	-0.467398	-1.427845	-1.493909
0.000333	0.437344	16.352695	
0.42257	-0.524661	-0.471625	-1.493909
0.000333	1.063930	16.751039	
0.56342	-0.581924	0.484596	-1.493909
0.000333	1.690516	16.748319	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.206230	-10.646818	-3.491298
0.000890	-1.912595	49.624112	
0.14086	-0.206230	-10.646818	-3.491298
0.000890	-0.448250	54.089676	
0.28171	-0.206230	-10.646818	-3.491298
0.000890	1.016095	58.555241	
0.42257	-0.206230	-10.646818	-3.491298
0.000890	2.480441	63.020806	
0.56342	-0.206230	-10.646818	-3.491298
0.000890	3.944786	67.486370	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 159

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 356 ========== LENGTH = 2.977856

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43656	-0.906075	-6.956470	-1.919730
8.39E-05	-2.150472	7.542286	
0.57742	-0.963340	-6.000165	-1.919730
8.39E-05	-1.345214	10.259708	
0.71828	-1.020605	-5.043860	-1.919730
8.39E-05	-0.539956	12.575994	
0.85914	-1.077870	-4.087556	-1.919730
8.39E-05	0.265302	14.491144	
1.00000	-1.135135	-3.131251	-1.919730
8.39E-05	1.070559	16.005159	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43656	-0.385402	-29.359826	-4.533248
0.000493	-5.077858	1.775384	
0.57742	-0.385402	-29.359826	-4.533248
0.000493	-3.176323	14.090776	
0.71828	-0.385402	-29.359826	-4.533248
0.000493	-1.274788	26.406169	
0.85914	-0.385402	-29.359826	-4.533248
0.000493	0.626746	38.721561	
1.00000	-0.385402	-29.359826	-4.533248
0.000493	2.528281	51.036953	

ELEM 357 ========== LENGTH = 2.976946

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-1.627545	4.451837	-1.912895
0.000443	-1.060952	16.048728	
0.14083	-1.684796	5.407621	-1.912895
0.000443	-0.258997	13.982006	
0.28166	-1.742048	6.363405	-1.912895
0.000443	0.542959	11.514584	
0.42248	-1.799299	7.319188	-1.912895
0.000443	1.344914	8.646464	
0.56331	-1.856551	8.274972	-1.912895
0.000443	2.146869	5.377644	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-3.039506	13.211738	-4.508079
0.001316	-2.499594	51.195005	
0.14083	-3.039506	13.211738	-4.508079
0.001316	-0.609643	45.656163	
0.28166	-3.039506	13.211738	-4.508079
0.001316	1.280308	40.117322	
0.42248	-3.039506	13.211738	-4.508079
0.001316	3.170259	34.578480	
0.56331	-3.039506	13.211738	-4.508079
0.001316	5.060210	29.039638	

ELEM 358 ========== LENGTH = 2.977254

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43664	-0.058166	-3.567581	-1.859533
7.60E-05	-2.083293	15.332252	
0.57748	-0.115422	-2.611632	-1.859533
7.60E-05	-1.303566	16.627764	
0.71832	-0.172678	-1.655662	-1.859533
7.60E-05	-0.523838	17.522428	
0.85916	-0.229934	-0.699702	-1.859533
7.60E-05	0.255889	18.016246	
1.00000	-0.287190	0.256258	-1.859533
7.60E-05	1.035616	18.109217	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 160

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43664	0.425133	-17.513465	-4.443113
0.000490	-4.978150	24.118778	
0.57748	0.425133	-17.513465	-4.443113
0.000490	-3.115093	31.462409	
0.71832	0.425133	-17.513465	-4.443113
0.000490	-1.252037	38.806041	
0.85916	0.425133	-17.513465	-4.443113
0.000490	0.611020	46.149672	
1.00000	0.425133	-17.513465	-4.443113
0.000490	2.474077	53.493303	

ELEM 359 ========== LENGTH = 2.977165

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.654924	7.359991	-1.864163
0.000370	-1.035748	18.082789	
0.14084	-0.712179	8.315900	-1.864163
0.000370	-0.254121	14.796407	
0.28167	-0.769434	9.271809	-1.864163
0.000370	0.527506	11.109222	
0.42251	-0.826689	10.227718	-1.864163
0.000370	1.309133	7.021233	
0.56334	-0.883943	11.183627	-1.864163
0.000370	2.090760	2.532439	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-1.938916	24.089706	-4.445747
0.001109	-2.468858	53.487973	
0.14084	-1.938916	24.089706	-4.445747
0.001109	-0.604795	43.387372	
0.28167	-1.938916	24.089706	-4.445747
0.001109	1.259267	33.286771	
0.42251	-1.938916	24.089706	-4.445747
0.001109	3.123330	23.186171	
0.56334	-1.938916	24.089706	-4.445747
0.001109	4.987392	13.085570	

ELEM 360 ========== LENGTH = 2.977638

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43659	0.444268	-2.926284	-1.410236
4.36E-05	-1.580391	17.772363	
0.57744	0.387007	-1.970104	-1.410236
4.36E-05	-0.988924	18.799159	
0.71829	0.329745	-1.013925	-1.410236
4.36E-05	-0.397458	19.424924	
0.85915	0.272483	-0.057745	-1.410236
4.36E-05	0.194009	19.649658	
1.00000	0.215221	0.898434	-1.410236
4.36E-05	0.785475	19.473362	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43659	1.103450	-13.580297	-3.395590
0.000328	-3.806488	31.635567	
0.57744	1.103450	-13.580297	-3.395590
0.000328	-2.382346	37.331272	
0.71829	1.103450	-13.580297	-3.395590
0.000328	-0.958203	43.026976	
0.85915	1.103450	-13.580297	-3.395590
0.000328	0.465939	48.722681	
1.00000	1.103450	-13.580297	-3.395590
0.000328	1.890082	54.418385	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1501.OUT

Page 161

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 361 ========== LENGTH = 2.977543

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.042642	7.483433	-1.415352
0.000275	-0.787752	19.389358	
0.14085	-0.099902	8.439559	-1.415352
0.000275	-0.194174	16.050419	
0.28170	-0.157163	9.395684	-1.415352
0.000275	0.399405	12.311480	
0.42255	-0.214423	10.351810	-1.415352
0.000275	0.992983	8.169585	
0.56340	-0.271684	11.307936	-1.415352
0.000275	1.586561	3.627689	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.981292	26.599884	-3.411502
0.000835	-1.898742	54.270574	
0.14085	-0.981292	26.599884	-3.411502
0.000835	-0.468007	43.114959	
0.28170	-0.981292	26.599884	-3.411502
0.000835	0.962729	31.959343	
0.42255	-0.981292	26.599884	-3.411502
0.000835	2.393464	20.803728	
0.56340	-0.981292	26.599884	-3.411502
0.000835	3.824200	9.648113	

ELEM 362 ========== LENGTH = 2.977005

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.43668	0.387876	-3.011108	-0.670002
2.93E-05	-0.752933	18.427143	
0.57751	0.330624	-2.055291	-0.670002
2.93E-05	-0.472033	19.489190	
0.71834	0.273372	-1.099473	-0.670002
2.93E-05	-0.191134	20.150510	
0.85917	0.216119	-0.143655	-0.670002
2.93E-05	0.089765	20.411101	
1.00000	0.158867	0.812162	-0.670002
2.93E-05	0.370665	20.270965	

LOAD CONC ----------

REL DIST T	P M2	V2 M3	V3
0.43668	1.007994	-12.325215	-1.632600
0.000183	-1.835811	34.156664	
0.57751	1.007994	-12.325215	-1.632600
0.000183	-1.151341	39.324026	
0.71834	1.007994	-12.325215	-1.632600
0.000183	-0.466872	44.491387	
0.85917	1.007994	-12.325215	-1.632600
0.000183	0.217598	49.658749	
1.00000	1.007994	-12.325215	-1.632600
0.000183	0.902068	54.826110	

ELEM 363 ========== LENGTH = 2.977005

LOAD STEEL ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.056312	7.520740	-0.683840
0.000136	-0.381852	20.146072	
0.14083	-0.113564	8.476558	-0.683840
0.000136	-0.095151	16.792629	
0.28166	-0.170816	9.432375	-0.683840
0.000136	0.191550	13.038458	
0.42249	-0.228069	10.388193	-0.683840
0.000136	0.478251	8.883559	

```
0.56332    -0.285321    11.344010    -0.683840
 0.000136    0.764952     4.327933
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         162

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -0.969779    28.147020    -1.672588
 0.000416   -0.934406    54.580126
0.14083    -0.969779    28.147020    -1.672588
 0.000416   -0.233171    42.779454
0.28166    -0.969779    28.147020    -1.672588
 0.000416    0.468063    30.978782
0.42249    -0.969779    28.147020    -1.672588
 0.000416    1.169298    19.178109
0.56332    -0.969779    28.147020    -1.672588
 0.000416    1.870532     7.377437

ELEM       364 ================== LENGTH
=      2.977432

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43662    0.032301    -2.815910     0.229079
 2.02E-05   0.250048    18.643539
0.57746    -0.024958    -1.859848    0.229079
 2.02E-05   0.153982    19.623947
0.71831    -0.082217    -0.903786    0.229079
 2.02E-05   0.057916    20.203423
0.85915    -0.139476    0.052276     0.229079
 2.02E-05   -0.038150   20.381967
1.00000    -0.196734    1.008338     0.229079
 2.02E-05   -0.134216   20.159579

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43662    0.139968    -11.219649    0.526924
 4.04E-05   0.573444    35.077936
0.57746    0.139968    -11.219649    0.526924
 4.04E-05   0.352474    39.783985
0.71831    0.139968    -11.219649    0.526924
 4.04E-05   0.131504    44.488035
0.85915    0.139968    -11.219649    0.526924
 4.04E-05   -0.089466   49.193084
1.00000    0.139968    -11.219649    0.526924
 4.04E-05   -0.310435   53.898133

ELEM       365 ================== LENGTH
=      2.977536

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -0.390835    7.719380     0.201259
-2.67E-05   0.109954    20.016552
0.14085    -0.448095    8.675501     0.201259
-2.67E-05   0.025549    16.578677
0.28170    -0.505355    9.631622     0.201259
-2.67E-05   -0.058856   12.739820
0.42255    -0.562616    10.587744    0.201259
-2.67E-05   -0.143261   8.499981
0.56340    -0.619876    11.543865    0.201259
-2.67E-05   -0.227665   3.859160

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -1.781694    29.230422    0.455223
-7.80E-05   0.247924    53.606789
0.14085    -1.781694    29.230422    0.455223
-7.80E-05   0.057011    41.348019
0.28170    -1.781694    29.230422    0.455223
-7.80E-05   -0.133902   29.089248
0.42255    -1.781694    29.230422    0.455223
-7.80E-05   -0.324815   16.830478
0.56340    -1.781694    29.230422    0.455223
-7.80E-05   -0.515729   4.571707
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         163

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       366 ================== LENGTH
=      2.978143

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43651    -0.356698    -2.342219    1.158101
-1.79E-06   1.286957    18.538220
0.57739    -0.413967    -1.385750    1.158101
-1.79E-06   0.801092    19.320228
0.71826    -0.471236    -0.429282    1.158101
-1.79E-06   0.315227    19.700963
0.85913    -0.528506    0.527187     1.158101
-1.79E-06   -0.170637   19.680426
1.00000    -0.585775    1.483655     1.158101
-1.79E-06   -0.656502   19.258616

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43651    -0.954193    -10.273135    2.774761
-0.000149   3.082118    34.767950
0.57739    -0.954193    -10.273135    2.774761
-0.000149   1.718007    39.077897
0.71826    -0.954193    -10.273135    2.774761
-0.000149   0.753896    43.387844
0.85913    -0.954193    -10.273135    2.774761
-0.000149   -0.410216   47.697791
1.00000    -0.954193    -10.273135    2.774761
-0.000149   -1.574327   52.007737

ELEM       367 ================== LENGTH
=      2.977041

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -0.791263    8.228267     1.111051
-0.000192   0.614634    19.126383
0.14083    -0.848516    9.184105     1.111051
-0.000192   0.148814    15.476224
0.28166    -0.905769    10.139944    1.111051
-0.000192   -0.317006   11.425320
0.42249    -0.963022    11.095782    1.111051
-0.000192   -0.782825    6.973671
0.56332    -1.020275    12.051620    1.111051
-0.000192   -1.248645    2.121276

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -2.904640    30.332257    2.654240
-0.000574   1.467371    51.738067
0.14083    -2.904640    30.332257    2.654240
-0.000574   0.354554    39.020953
0.28166    -2.904640    30.332257    2.654240
-0.000574   -0.758264   26.303840
0.42249    -2.904640    30.332257    2.654240
-0.000574   -1.871081   13.586727
0.56332    -2.904640    30.332257    2.654240
-0.000574   -2.983899   0.869614

ELEM       368 ================== LENGTH
=      2.977720

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43658    0.198918    -2.634728    2.003987
-1.65E-05   2.225011    16.352930
0.57743    0.141655    -1.678502    2.003987
-1.65E-05   1.384479    17.257479
0.71829    0.084392    -0.722275    2.003987
-1.65E-05   0.543947    17.760958
0.85914    0.027129    0.233951     2.003987
-1.65E-05   -0.296585   17.863367
1.00000    -0.030134   1.190178     2.003987
-1.65E-05   -1.137117   17.564706
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         164

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43658    0.631797    -12.246730    4.837710
-0.000283   5.368895    28.464033
0.57743    0.631797    -12.246730    4.837710
-0.000283   3.339815    33.600677
0.71829    0.631797    -12.246730    4.837710
-0.000283   1.310735    38.737322
0.85914    0.631797    -12.246730    4.837710
-0.000283   -0.718345   43.873967
1.00000    0.631797    -12.246730    4.837710
-0.000283   -2.747425   49.010612

ELEM       369 ================== LENGTH
=      2.976842

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -0.293421    8.479864     1.914261
-0.000384   1.060887    17.453068
0.14082    -0.350671    9.435588     1.914261
-0.000384   0.258409    13.697895
0.28165    -0.407921    10.391312    1.914261
-0.000384   -0.544070   9.542073
0.42247    -0.465171    11.347036    1.914261
-0.000384   -1.346548   4.985601
0.56330    -0.522421    12.302760    1.914261
-0.000384   -2.149026   0.028480

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -1.441795    29.411248    4.599308
-0.001168   2.546341    48.788296
0.14082    -1.441795    29.411248    4.599308
-0.001168   0.618262    36.458793
0.28165    -1.441795    29.411248    4.599308
-0.001168   -1.309816   24.129289
0.42247    -1.441795    29.411248    4.599308
-0.001168   -3.237894   11.799786
0.56330    -1.441795    29.411248    4.599308
-0.001168   -5.165972   -0.529718

ELEM       370 ================== LENGTH
=      2.976491

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43676    2.650498    -5.333875    2.588878
-8.04E-05   2.906735    7.772736
0.57757    2.593253    -4.378352    2.588878
-8.04E-05   1.821677    9.808044
0.71838    2.536009    -3.422828    2.588878
-8.04E-05   0.736619    11.442870
0.85919    2.478764    -2.467305    2.588878
-8.04E-05   -0.348438   12.677214
1.00000    2.421519    -1.511781    2.588878
-8.04E-05   -1.433496   13.511077

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43676    7.755178    -21.868462    6.267274
-0.000654   7.033679    5.106634
0.57757    7.755178    -21.868462    6.267274
-0.000654   4.406921    14.272205
0.71838    7.755178    -21.868462    6.267274
-0.000654   1.780164    23.437777
0.85919    7.755178    -21.868462    6.267274
-0.000654   -0.846594   32.603348
1.00000    7.755178    -21.868462    6.267274
-0.000654   -3.473351   41.768919
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         165

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       371 ================== LENGTH
=      2.977482

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    2.054974    4.640466     2.446690
-0.000585   1.317320    13.421173
0.14085    1.997714    5.696557     2.446690
-0.000585   0.291250    11.274620
0.28169    1.940455    6.552648     2.446690
-0.000585   -0.734819   8.727111
0.42254    1.883195    7.508738     2.446690
-0.000585   -1.760889   5.778645
0.56339    1.825936    8.464829     2.446690
-0.000585   -2.786959   2.429223

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    5.376746    17.942470    5.888961
-0.001645   3.165525    11.642783
0.14085    5.376746    17.942470    5.888961
-0.001645   0.695868    34.080239
0.28169    5.376746    17.942470    5.888961
-0.001645   -1.773789   26.555695
0.42254    5.376746    17.942470    5.888961
-0.001645   -4.243446   19.031151
0.56339    5.376746    17.942470    5.888961
-0.001645   -6.713103   11.506607

ELEM       372 ================== LENGTH
=      2.977322

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43663    -0.006718    -20.565490    3.748783
-0.000214   3.683962    -24.444332
0.57748    -0.063976    -19.609491    3.748783
-0.000214   2.111984    -16.021035
0.71832    -0.121233    -18.653492    3.748783
-0.000214   0.540005    -7.998618
0.85916    -0.178490    -17.697493    3.748783
-0.000214   -1.031974   -0.377079
1.00000    -0.235747    -16.741494    3.748783
-0.000214   -2.603953   6.843579

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43663    1.164593    -59.059603    9.040119
-0.000639   8.879645    -72.938846
0.57748    1.164593    -59.059603    9.040119
-0.000639   5.088847    -48.173354
0.71832    1.164593    -59.059603    9.040119
-0.000639   1.298050    -23.407862
0.85916    1.164593    -59.059603    9.040119
-0.000639   -2.492748   1.357630
1.00000    1.164593    -59.059603    9.040119
-0.000639   -6.283546   26.123122

ELEM       373 ================== LENGTH
=      2.977322

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    4.415705    -12.357075    3.703718
-0.000779   2.553480    6.830350
0.14084    4.358448    -11.401076    3.703718
-0.000779   1.000398    11.811609
0.28168    4.301191    -10.445078    3.703718
-0.000779   -0.552684   16.391988
0.42252    4.243934    -9.489079     3.703718
-0.000779   -2.105766   20.571488
0.56337    4.186677    -8.533080     3.703718
-0.000779   -3.658848   24.350108
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         166

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    11.193673    -28.657121    8.940762
-0.002578   6.165674    26.112184
0.14084    11.193673    -28.657121    8.940762
-0.002578   2.416540    38.128989
0.28168    11.193673    -28.657121    8.940762
-0.002578   -1.332594   50.145793
0.42252    11.193673    -28.657121    8.940762
-0.002578   -5.081728   62.162598
0.56337    11.193673    -28.657121    8.940762
-0.002578   -8.830862   74.179402

ELEM       374 ================== LENGTH
=      2.977946

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43654    2.721736    -35.842577    3.289080
-0.000293   3.417697    -52.057472
0.57741    2.664469    -34.886221    3.289080
-0.000293   2.037973    -37.222586
0.71827    2.607203    -33.929865    3.289080
-0.000293   0.658248    -22.788879
0.85914    2.549937    -32.973509    3.289080
-0.000293   -0.721476   -8.756349
1.00000    2.492670    -32.017153    3.289080
-0.000293   -2.101200   4.875002

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.43654    6.118449    -91.654409    7.916218
-0.001169   8.223729    -141.006653
0.57741    6.118449    -91.654409    7.916218
-0.001169   4.902983    -102.558871
0.71827    6.118449    -91.654409    7.916218
-0.001169   1.582237    -64.111089
0.85914    6.118449    -91.654409    7.916218
-0.001169   -1.738509   -25.663308
1.00000    6.118449    -91.654409    7.916218
-0.001169   -5.059255   12.784474

ELEM       375 ================== LENGTH
=      2.976830

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -3.203024    -27.856307    3.285125
-0.000754   2.078441    4.874536
0.14077    -3.260774    -26.900589    3.285125
-0.000754   0.701291    16.351787
0.28165    -3.317523    -25.944872    3.285125
-0.000754   -0.675858   27.428394
0.42247    -3.374773    -24.989155    3.285125
-0.000754   -2.053007   38.104357
0.56329    -3.432023    -24.033437    3.285125
-0.000754   -3.430156   48.379676

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -7.557191    -82.635096    7.928591
-0.002187   5.017061    12.782934
0.14082    -7.557191    -82.635096    7.928591
-0.002187   1.693336    47.424187
0.28165    -7.557191    -82.635096    7.928591
-0.002187   -1.630389   82.065440
0.42247    -7.557191    -82.635096    7.928591
-0.002187   -4.954114   116.706692
0.56329    -7.557191    -82.635096    7.928591
-0.002187   -8.277839   151.347945
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         167

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       376 ================== LENGTH
=      4.475174

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    0.148851    -5.460718    0.544326
 0.000101   0.282758    -0.072932
0.25000    0.148851    -3.754557    0.544326
 0.000101   0.673770    5.082003
0.50000    0.148851    -2.048397    0.544326
 0.000101   0.064782    8.328157
0.75000    0.148851    -0.342237    0.544326
 0.000101   -0.544206   9.665470
1.00000    0.148851    1.363923     0.544326
 0.000101   -1.153193   9.093942

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    0.499952    -22.259241    1.322427
-0.000159   3.122278    -0.182271
0.25000    0.499952    -12.423927    1.322427
-0.000159   1.642756    19.219381
0.50000    0.499952    -2.588612     1.322427
-0.000159   0.163233    27.617347
0.75000    0.499952    7.246702      1.322427
-0.000159   -1.316290   25.011627
1.00000    0.499952    17.082016     1.322427
-0.000159   -2.795813   11.402220

ELEM       377 ================== LENGTH
=      4.972248

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    0.183293    -5.030967    0.322644
 1.40E-05   0.845796    8.973606
0.25000    0.183293    -3.135298    0.322644
 1.40E-05   0.444729    14.049193
0.50000    0.183293    -1.239628    0.322644
 1.40E-05   0.043662    16.768345
0.75000    0.183293    0.656041     0.322644
 1.40E-05   -0.357404   17.137963
1.00000    0.183293    2.551711     0.322644
 1.40E-05   -0.758471   15.137346

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    0.644649    -25.080776    0.775082
-0.000215   2.034541    11.111689
0.25000    0.644649    -14.153018    0.775082
-0.000215   1.071066    35.496708
0.50000    0.644649    -3.225260     0.775082
-0.000215   0.107591    46.297847
0.75000    0.644649    7.702498      0.775082
-0.000215   -0.855885   43.515105
1.00000    0.644649    18.630256     0.775082
-0.000215   -1.819360   27.148482

ELEM       378 ================== LENGTH
=      4.973312

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    0.085648    -4.497532    0.199738
-2.06E-05   0.561291    15.051823
0.25000    0.085648    -2.601457    0.199738
-2.06E-05   0.312951    19.465010
0.50000    0.085648    -0.705381    0.199738
-2.06E-05   0.064611    21.520752
0.75000    0.085648    1.190694     0.199738
-2.06E-05   -0.183729   21.219051
1.00000    0.085648    3.086769     0.199738
-2.06E-05   -0.432068   18.559906
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         168

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    0.368064    -23.457835    0.473489
-0.000177   1.335637    26.943977
0.25000    0.368064    -12.527738    0.473489
-0.000177   0.746935    49.314914
0.50000    0.368064    -1.597640     0.473489
-0.000177   0.158233    58.096154
0.75000    0.368064    9.332457      0.473489
-0.000177   -0.430469   53.287697
1.00000    0.368064    20.262555     0.473489
-0.000177   -1.019170   34.889541

ELEM       379 ================== LENGTH
=      4.972517

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -0.015383    -3.721170    0.048349
-5.99E-06   0.189515    18.521744
0.25000    -0.015383    -1.825397    0.048349
-5.99E-06   0.129412    21.969294
0.50000    -0.015383    0.070375     0.048349
-5.99E-06   0.069308    23.060154
0.75000    -0.015383    1.966147     0.048349
-5.99E-06   0.009205    21.794323
1.00000    -0.015383    3.861920     0.048349
-5.99E-06   -0.050899   18.171803

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    0.072322    -21.663697    0.105400
-4.12E-05   0.430482    34.800486
0.25000    0.072322    -10.735347    0.105400
-4.12E-05   0.299457    54.938588
0.50000    0.072322    0.193003      0.105400
-4.12E-05   0.168432    61.491387
0.75000    0.072322    11.121353     0.105400
-4.12E-05   0.037406    54.458733
1.00000    0.072322    22.049704     0.105400
-4.12E-05   -0.093619   33.840775

ELEM       380 ================== LENGTH
=      4.972947

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -0.077847    -2.889597    -0.099595
 1.97E-05   -0.185997   18.179929
0.25000    -0.077847    -0.993661    -0.099595
 1.97E-05   -0.062177   20.593834
0.50000    -0.077847    0.902276     -0.099595
 1.97E-05   0.061643    20.650640
0.75000    -0.077847    2.798212     -0.099595
 1.97E-05   0.185463    18.350349
1.00000    -0.077847    4.694148     -0.099595
 1.97E-05   0.309283    13.692961

LOAD     CONC ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -0.111901    -19.631087    -0.251792
 0.000109   -0.476798   33.863826
0.25000    -0.111901    -8.701792     -0.251792
 0.000109   -0.163761   51.476066
0.50000    -0.111901    2.227502      -0.251792
 0.000109   0.149276    55.500604
0.75000    -0.111901    13.156797     -0.251792
 0.000109   0.462313    45.937440
1.00000    -0.111901    24.086092     -0.251792
 0.000109   0.775349    22.786573
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1501.OUT

                                        Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                         169

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       381 ================== LENGTH
=      4.972401

LOAD     STEEL ------------------

REL DIST          P              V2             V3
       T          M2             M3
0.00000    -0.108163    -1.960005    -0.214620
 2.70E-05   -0.493622   13.741306
0.25000    -0.108163    -0.064277    -0.214620
 2.70E-05   -0.226828   14.999499
0.50000    -0.108163    1.831451     -0.214620
 2.70E-05   0.039966    13.901112
0.75000    -0.108163    3.727178     -0.214620
 2.70E-05   0.306760    10.446146
1.00000    -0.108163    5.622906     -0.214620
 2.70E-05   0.573554    4.634600

LOAD     CONC ------------------

REL DIST          P              V2             V3
```

T	M2	M3	
0.00000	-0.200979	-17.371506	-0.528323
0.000205	-1.217225	22.906577	
0.25000	-0.200979	-6.443412	-0.528323
0.000205	-0.560467	37.708741	
0.50000	-0.200979	4.484681	-0.528323
0.000205	0.096291	38.926191	
0.75000	-0.200979	15.412774	-0.528323
0.000205	0.753049	26.558926	
1.00000	-0.200979	26.340868	-0.528323
0.000205	1.409808	0.606946	

ELEM 382 ========== LENGTH = 4.972976

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.113561	-1.429733	-0.266425
-7.38E-06	-0.656525	4.703067	
0.25000	-0.113561	0.466214	-0.266425
-7.38E-06	-0.325293	5.302013	
0.50000	-0.113561	2.362161	-0.266425
-7.38E-06	0.005938	3.543833	
0.75000	-0.113561	4.258108	-0.266425
-7.38E-06	0.337169	-0.571472	
1.00000	-0.113561	6.154055	-0.266425
-7.38E-06	0.668401	-7.043901	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.230436	-16.233137	-0.652819
0.000185	-1.608775	0.775538	
0.25000	-0.230436	-5.303779	-0.652819
0.000185	-0.797161	14.163359	
0.50000	-0.230436	5.625579	-0.652819
0.000185	0.014453	13.963320	
0.75000	-0.230436	16.554937	-0.652819
0.000185	0.826067	0.175423	
1.00000	-0.230436	27.484295	-0.652819
0.000185	1.637680	-27.200332	

ELEM 383 ========== LENGTH = 4.972683

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.084363	-1.357791	-0.236267
-7.73E-05	-0.619715	-6.965831	
0.25000	-0.084363	0.538084	-0.236267
-7.73E-05	-0.325995	-6.456338	
0.50000	-0.084363	2.433919	-0.236267
-7.73E-05	-0.032274	-8.303691	
0.75000	-0.084363	4.329754	-0.236267
-7.73E-05	0.261446	-12.507891	
1.00000	-0.084363	6.225590	-0.236267
-7.73E-05	0.555166	-19.068938	

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.230779	-15.953179	-0.581949
3.54E-05	-1.523648	-27.008759	
0.25000	-0.230779	-5.024466	-0.581949
3.54E-05	-0.800185	-13.969362	
0.50000	-0.230779	5.904247	-0.581949
3.54E-05	-0.076723	-14.516222	
0.75000	-0.230779	16.832961	-0.581949
3.54E-05	0.646740	-28.649337	
1.00000	-0.230779	27.761674	-0.581949
3.54E-05	1.370202	-56.368708	

ELEM 384 ========== LENGTH = 4.972600

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.007240	-1.894856	-0.117269
-6.76E-05	-0.363005	-19.013629	
0.25000	-0.007240	0.000948	-0.117269
-6.76E-05	-0.217222	-17.836423	
0.50000	-0.007240	1.896751	-0.117269
-6.76E-05	-0.071439	-19.015986	
0.75000	-0.007240	3.792555	-0.117269
-6.76E-05	0.074344	-22.552316	
1.00000	-0.007240	5.688359	-0.117269
-6.76E-05	0.220127	-28.445415	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206854	-18.502653	-0.305806
-4.60E-05	-0.924887	-56.230708	
0.25000	-0.206854	-7.574121	-0.305806
-4.60E-05	-0.544724	-40.022038	
0.50000	-0.206854	3.354410	-0.305806
-4.60E-05	-0.164561	-37.399170	
0.75000	-0.206854	14.282941	-0.305806
-4.60E-05	0.215602	-48.362107	
1.00000	-0.206854	25.211472	-0.305806
-4.60E-05	0.595765	-72.910846	

ELEM 385 ========== LENGTH = 3.481038

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.020346	-4.812456	0.043948
9.39E-05	0.005305	-28.435243	
0.25000	-0.020346	-3.485311	0.043948
9.39E-05	-0.032941	-24.824637	
0.50000	-0.020346	-2.158165	0.043948
9.39E-05	-0.071187	-22.368993	
0.75000	-0.020346	-0.831019	0.043948
9.39E-05	-0.109433	-21.068310	
1.00000	-0.020346	0.496127	0.043948
9.39E-05	-0.147679	-20.922589	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.232230	-19.791630	0.037630
0.000129	-0.103348	-72.873881	
0.25000	-0.232230	-12.141178	0.037630
0.000129	-0.136095	-58.978964	
0.50000	-0.232230	-4.490725	0.037630
0.000129	-0.168843	-51.741928	
0.75000	-0.232230	3.159727	0.037630
0.000129	-0.201590	-51.162771	
1.00000	-0.232230	10.810180	0.037630
0.000129	-0.234338	-57.241494	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 386 ========== LENGTH = 4.973234

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.106413	-5.648201	0.131018
0.000107	0.279384	-20.951481	
0.25000	-0.106413	-3.752155	0.131018
0.000107	0.174488	-15.107710	
0.50000	-0.106413	-1.856110	0.131018
0.000107	-0.046407	-11.621308	
0.75000	-0.106413	0.039936	0.131018
0.000107	-0.209303	-10.492275	
1.00000	-0.106413	1.935981	0.131018
0.000107	-0.372198	-11.720612	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.298663	-25.238052	0.276159
7.22E-05	0.577623	-57.297682	
0.25000	-0.298663	-14.308127	0.276159
7.22E-05	0.234273	-32.713632	
0.50000	-0.298663	-3.378202	0.276159
7.22E-05	-0.109078	-21.718850	
0.75000	-0.298663	7.551724	0.276159
7.22E-05	-0.452429	-24.313338	
1.00000	-0.298663	18.481649	0.276159
7.22E-05	-0.795780	-40.497095	

ELEM 387 ========== LENGTH = 4.972333

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.164274	-5.786567	0.194593
4.25E-05	0.472940	-11.771521	
0.25000	-0.164274	-3.890864	0.194593
4.25E-05	0.231044	-5.756594	
0.50000	-0.164274	-1.995162	0.194593
4.25E-05	-0.010851	-2.098183	
0.75000	-0.164274	-0.099460	0.194593
4.25E-05	-0.252746	-0.796288	
1.00000	-0.164274	1.796242	0.194593
4.25E-05	-0.494642	-1.850908	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.369341	-26.729018	0.430332
-9.65E-05	1.038924	-40.607431	
0.25000	-0.369341	-15.801073	0.430332
-9.65E-05	0.503986	-14.173207	
0.50000	-0.369341	-4.873127	0.430332
-9.65E-05	-0.030952	-1.323330	
0.75000	-0.369341	6.054819	0.430332
-9.65E-05	-0.565890	-2.057801	
1.00000	-0.369341	16.982765	0.430332
-9.65E-05	-1.100828	-16.376620	

ELEM 388 ========== LENGTH = 4.972697

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193520	-5.586553	0.181718
-5.51E-06	0.471134	-1.909534	
0.25000	-0.193520	-3.690712	0.181718
-5.51E-06	0.245226	3.857096	
0.50000	-0.193520	-1.794872	0.181718
-5.51E-06	0.019319	7.266864	
0.75000	-0.193520	0.100969	0.181718
-5.51E-06	-0.206589	8.319772	
1.00000	-0.193520	1.996810	0.181718
-5.51E-06	-0.432496	7.015819	

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.438733	-26.153389	0.409974
0.000166	1.060844	-16.507949	
0.25000	-0.438733	-15.224644	0.409974
-0.000166	0.551175	9.212106	
0.50000	-0.438733	-4.295898	0.409974
-0.000166	0.041505	21.345824	
0.75000	-0.438733	6.632848	0.409974
-0.000166	-0.468164	19.893206	
1.00000	-0.438733	17.561594	0.409974
-0.000166	-0.977833	4.854251	

ELEM 389 ========== LENGTH = 4.973117

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.208853	-4.720355	0.107427
-1.50E-05	0.309289	6.965084	
0.25000	-0.208853	-2.824354	0.107427
-1.50E-05	0.175727	11.655175	
0.50000	-0.208853	-0.928353	0.107427
-1.50E-05	0.042165	13.988006	
0.75000	-0.208853	0.967648	0.107427
-1.50E-05	-0.091396	13.963579	
1.00000	-0.208853	2.863649	0.107427
-1.50E-05	-0.224958	11.581893	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.489205	-24.172181	0.242149
-0.000115	0.699096	4.738951	
0.25000	-0.489205	-13.242512	0.242149
-0.000115	0.398038	27.997409	
0.50000	-0.489205	-2.312843	0.242149
-0.000115	0.096979	37.667234	
0.75000	-0.489205	8.616826	0.242149
-0.000115	-0.204079	33.748428	
1.00000	-0.489205	19.546495	0.242149
-0.000115	-0.505137	16.240990	

ELEM 390 ========== LENGTH = 4.972665

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.215739	-3.837756	-0.001600
-2.50E-06	0.045576	11.559103	
0.25000	-0.215739	-1.941927	-0.001600
-2.50E-06	0.047564	15.151657	
0.50000	-0.215739	-0.046098	-0.001600
-2.50E-06	0.049553	16.387380	
0.75000	-0.215739	1.849730	-0.001600
-2.50E-06	0.051541	15.266272	
1.00000	-0.215739	3.745559	-0.001600
-2.50E-06	0.053530	11.788335	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.514790	-21.952377	-0.009944
-5.27E-06	0.090495	16.189663	
0.25000	-0.514790	-11.023701	-0.009944
-5.27E-06	0.102857	36.687038	
0.50000	-0.514790	-0.095026	-0.009944
-5.27E-06	0.115219	43.598252	
0.75000	-0.514790	10.833649	-0.009944
-5.27E-06	0.127581	36.923305	
1.00000	-0.514790	21.762325	-0.009944
-5.27E-06	0.139942	16.662196	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 391 ========== LENGTH = 4.973388

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.212631	-2.958034	-0.111865
9.67E-06	-0.234674	11.805377	
0.25000	-0.212631	-1.061929	-0.111865
9.67E-06	-0.095587	14.304482	
0.50000	-0.212631	0.834175	-0.111865
9.67E-06	0.043500	14.446071	
0.75000	-0.212631	2.730279	-0.111865
9.67E-06	0.182587	12.230144	
1.00000	-0.212631	4.626384	-0.111865
9.67E-06	0.321675	7.656701	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.509366	-19.749577	-0.264540
0.000103	-0.558073	16.703490	
0.25000	-0.509366	-8.819312	-0.264540
0.000103	-0.229158	34.464013	
0.50000	-0.509366	2.110952	-0.264540
0.000103	0.099757	38.634423	
0.75000	-0.509366	13.041217	-0.264540
0.000103	0.428672	29.214720	
1.00000	-0.509366	23.971481	-0.264540
0.000103	0.757586	6.204904	

ELEM 392 ========== LENGTH = 4.972139

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.203249	-2.035824	-0.189634
1.54E-06	-0.449799	7.709490	
0.25000	-0.203249	-0.140196	-0.189634
1.54E-06	-0.214477	9.061925	
0.50000	-0.203249	1.755432	-0.189634
1.54E-06	0.021645	8.058028	
0.75000	-0.203249	3.651060	-0.189634
1.54E-06	0.257367	4.697799	
1.00000	-0.203249	5.546688	-0.189634
1.54E-06	0.493088	-1.018760	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.485696	-17.624122	-0.439313
0.000157	-0.045898	6.328494	
0.25000	-0.485696	-6.696603	-0.439313
0.000157	-0.499817	21.444247	
0.50000	-0.485696	4.230915	-0.439313
0.000157	0.046264	22.976716	
0.75000	-0.485696	15.158433	-0.439313
0.000157	0.592345	10.925899	
1.00000	-0.485696	26.085951	-0.439313
0.000157	1.138425	-14.708201	

ELEM 393 ========== LENGTH = 4.973104

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.178687	-1.860429	-0.207347
-4.40E-05	-0.523417	-0.957682	
0.25000	-0.178687	0.035567	-0.207347
-4.40E-05	-0.265627	0.176722	
0.50000	-0.178687	1.931563	-0.207347
-4.40E-05	-0.007837	-1.046120	
0.75000	-0.178687	3.827558	-0.207347
-4.40E-05	0.249953	-4.626209	
1.00000	-0.178687	5.723554	-0.207347
-4.40E-05	0.507743	-10.563544	

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.442897	-17.181297	-0.469434
9.26E-05	-1.191811	-14.568144	
0.25000	-0.442897	-6.251658	-0.469434
9.26E-05	-0.608175	-0.001328	
0.50000	-0.442897	4.677982	-0.469434
9.26E-05	-0.024539	0.976929	
0.75000	-0.442897	15.607622	-0.469434
9.26E-05	0.559097	-11.633374	
1.00000	-0.442897	26.537261	-0.469434
9.26E-05	1.142733	-37.832236	

ELEM 394 ========== LENGTH = 4.972151

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.127791	-1.889454	-0.148823
-0.000101	-0.413793	-10.508020	
0.25000	-0.127791	0.000178	-0.148823
-0.000101	0.228801	-9.337529	
0.50000	-0.127791	1.901811	-0.148823
-0.000101	-0.043808	-10.523380	
0.75000	-0.127791	3.797444	-0.148823
-0.000101	0.141185	-14.065575	
1.00000	-0.127791	5.693076	-0.148823
-0.000101	0.326178	-19.964113	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.406980	-18.144690	-0.324012
-6.18E-05	-0.409862	-37.758660	
0.25000	-0.406980	-7.217144	-0.324012
-6.18E-05	-0.507603	-21.945801	
0.50000	-0.406980	3.710402	-0.324012
-6.18E-05	-0.104844	-19.766294	
0.75000	-0.406980	14.637948	-0.324012
-6.18E-05	0.297915	-31.170141	
1.00000	-0.406980	25.565494	-0.324012
-6.18E-05	0.700674	-56.157341	

ELEM 395 ========== LENGTH = 3.481707

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.052225	-0.949231	-0.090713
-7.40E-05	-0.224517	-19.933585	
0.25000	-0.052225	0.378169	-0.090713
-7.40E-05	-0.145558	-19.685051	
0.50000	-0.052225	1.705570	-0.090713
-7.40E-05	-0.066599	-20.591922	
0.75000	-0.052225	3.032971	-0.090713
-7.40E-05	0.012360	-22.654198	
1.00000	-0.052225	4.360371	-0.090713
-7.40E-05	0.091319	-25.871879	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.386980	-13.324140	-0.160447
-9.50E-05	-0.434437	-56.094245	
0.25000	-0.386980	-5.672220	-0.160447
-9.50E-05	-0.294780	-47.826776	
0.50000	-0.386980	1.979701	-0.160447
-9.50E-05	-0.155123	-46.219743	
0.75000	-0.386980	9.631622	-0.160447
-9.50E-05	-0.015465	-51.271145	
1.00000	-0.386980	17.283542	-0.160447
-9.50E-05	0.124192	-62.986983	

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 396 ========== LENGTH = 3.480352

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.055651	-4.378652	0.130127
6.86E-05	0.158990	-25.875951	
0.25000	-0.055651	-3.051768	0.130127
6.86E-05	0.045768	-22.643391	
0.50000	-0.055651	-1.724884	0.130127
6.86E-05	-0.067454	-20.565337	
0.75000	-0.055651	-0.398000	0.130127
6.86E-05	-0.180675	-19.641789	
1.00000	-0.055651	0.928884	0.130127
6.86E-05	-0.293897	-19.872747	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.412723	-17.427278	0.359539
7.28E-05	0.466261	-63.007563	
0.25000	-0.412723	-9.778335	0.359539
7.28E-05	0.153431	-51.171924	
0.50000	-0.412723	-2.129391	0.359539
7.28E-05	-0.159399	-45.991540	
0.75000	-0.412723	5.519552	0.359539
7.28E-05	-0.472230	-47.466409	
1.00000	-0.412723	13.168496	0.359539
7.28E-05	-0.785060	-55.596532	

ELEM 397 ========== LENGTH = 4.973376

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.135453	-5.726603	0.170137
9.61E-05	0.376655	-19.916382	
0.25000	-0.135453	-3.830503	0.170137
9.61E-05	0.167116	-13.974996	
0.50000	-0.135453	-1.934403	0.170137
9.61E-05	-0.044423	-10.391115	
0.75000	-0.135453	-0.038304	0.170137
9.61E-05	-0.255962	-9.164738	
1.00000	-0.135453	1.857796	0.170137
9.61E-05	-0.467502	-10.295866	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.480990	-25.791170	0.428701
3.79E-05	0.959829	-55.708988	
0.25000	-0.480990	-14.860932	0.428701
3.79E-05	0.426807	-30.436712	
0.50000	-0.480990	-3.930694	0.428701
3.79E-05	-0.106216	-18.754483	
0.75000	-0.480990	6.999544	0.428701
3.79E-05	-0.639238	-20.762302	
1.00000	-0.480990	17.929782	0.428701
3.79E-05	-1.172260	-36.160167	

ELEM 398 ========== LENGTH = 4.972851

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.194244	-5.720308	0.231353
3.80E-05	0.567388	-10.353996	
0.25000	-0.194244	-3.824409	0.231353
3.80E-05	0.279767	-4.420939	
0.50000	-0.194244	-1.928509	0.231353
3.80E-05	-0.007854	-0.844889	
0.75000	-0.194244	-0.032610	0.231353
3.80E-05	-0.295474	0.374155	
1.00000	-0.194244	1.863290	0.231353
3.80E-05	-0.583095	-0.763807	

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.561438	-26.685924	0.576671
-0.000122	1.413350	-36.305968	
0.25000	-0.561438	-15.756841	0.576671
-0.000122	0.696425	-9.923274	
0.50000	-0.561438	-4.827757	0.576671
-0.000122	-0.020500	2.872244	
0.75000	-0.561438	6.101326	0.576671
-0.000122	-0.737426	2.080585	
1.00000	-0.561438	17.030410	0.576671
-0.000122	-1.454351	-12.298249	

ELEM 399 ========== LENGTH = 4.972465

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.226953	-5.847592	0.214688
-8.21E-06	0.557081	-10.735107	
0.25000	-0.226953	-3.951840	0.214688
-8.21E-06	0.290199	5.263614	
0.50000	-0.226953	-2.056088	0.214688
-8.21E-06	0.023316	8.997890	
0.75000	-0.226953	-0.160335	0.214688
-8.21E-06	-0.243567	10.375526	
1.00000	-0.226953	1.735417	0.214688
-8.21E-06	-0.510450	9.396521	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.646333	-27.104252	0.536922
-0.000187	1.392636	-12.457671	
0.25000	-0.646333	-16.176017	0.536922
-0.000187	0.725180	14.443532	
0.50000	-0.646333	-5.247782	0.536922
-0.000187	0.057723	27.759668	
0.75000	-0.646333	5.680453	0.536922
-0.000187	-0.609733	27.490737	
1.00000	-0.646333	16.608688	0.536922
-0.000187	-1.277190	13.636741	

ELEM 400 ========== LENGTH = 4.973177

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.245005	-4.834593	0.132707
-1.67E-05	0.379317	9.343000	
0.25000	-0.245005	-2.938569	0.132707
-1.67E-05	0.214324	14.175164	
0.50000	-0.245005	-1.042545	0.132707
-1.67E-05	0.049330	16.650012	
0.75000	-0.245005	0.853479	0.132707
-1.67E-05	-0.115664	16.767545	
1.00000	-0.245005	2.749503	0.132707
-1.67E-05	-0.280657	14.527762	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.707502	-24.557275	0.332463
-0.000126	0.951141	13.502714	
0.25000	-0.707502	-13.627475	0.332463
-0.000126	0.537791	37.240156	
0.50000	-0.707502	-2.697674	0.332463
-0.000126	0.124441	47.388638	
0.75000	-0.707502	8.232126	0.332463
-0.000126	-0.288909	43.948162	
1.00000	-0.707502	19.161927	0.332463
-0.000126	-0.702259	26.918726	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
177

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 401 ========== LENGTH = 4.972033

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.252643	-3.885113	0.011937
-2.65E-06	0.087324	14.512051	
0.25000	-0.252643	-1.989526	0.011937
-2.65E-06	0.072486	18.163163	
0.50000	-0.252643	-0.093938	0.011937
-2.65E-06	0.057648	19.458044	
0.75000	-0.252643	1.801649	0.011937
-2.65E-06	0.042810	18.396695	
1.00000	-0.252643	3.697237	0.011937
-2.65E-06	0.027972	14.979115	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.734127	-22.021114	0.029367
-5.10E-06	0.218330	26.878604	
0.25000	-0.734127	-11.093829	0.029367
-5.10E-06	0.181826	47.459676	
0.50000	-0.734127	-0.166545	0.029367
-5.10E-06	0.145323	54.458045	
0.75000	-0.734127	10.760740	0.029367
-5.10E-06	0.108820	47.873709	
1.00000	-0.734127	21.688024	0.029367
-5.10E-06	0.072316	27.706670	

ELEM 402 ========== LENGTH = 4.973005

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.248851	-2.942953	-0.111324
1.25E-05	-0.224746	14.994364	
0.25000	-0.248851	-1.046995	-0.111324
1.25E-05	-0.086342	17.474618	
0.50000	-0.248851	0.848964	-0.111324
1.25E-05	0.052061	17.597719	
0.75000	-0.248851	2.744922	-0.111324
1.25E-05	0.190465	15.363668	
1.00000	-0.248851	4.640880	-0.111324
1.25E-05	0.328869	10.772464	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.720463	-19.504373	-0.277636
0.000118	-0.561256	27.744916	
0.25000	-0.720463	-8.574951	-0.277636
0.000118	-0.216085	45.199743	
0.50000	-0.720463	2.354470	-0.277636
0.000118	-0.129087	49.066553	
0.75000	-0.720463	13.283892	-0.277636
0.000118	0.474259	39.345347	
1.00000	-0.720463	24.213313	-0.277636
0.000118	0.819431	16.036124	

ELEM 403 ========== LENGTH = 4.973103

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.234193	-1.791448	-0.199363
6.18E-06	-0.468066	10.920400	
0.25000	-0.234193	0.104548	-0.199363
6.18E-06	-0.220203	11.869041	
0.50000	-0.234193	2.000543	-0.199363
6.18E-06	0.027660	10.560437	
0.75000	-0.234193	3.896539	-0.199363
6.18E-06	0.275522	6.894587	
1.00000	-0.234193	5.792534	-0.199363
6.18E-06	0.523385	0.871493	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
178

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.671924	-16.710516	-0.491179
0.000183	-1.156325	16.154954	
0.25000	-0.671924	-5.780879	-0.491179
0.000183	-0.545654	30.136457	
0.50000	-0.671924	5.148758	-0.491179
0.000183	0.065017	30.529407	
0.75000	-0.671924	16.078395	-0.491179
0.000183	0.675688	17.333805	
1.00000	-0.671924	27.008032	-0.491179
0.000183	1.286359	-9.450350	

ELEM 404 ========== LENGTH = 4.972327

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206994	-1.948802	-0.224212
-3.73E-05	-0.560091	0.942244	
0.25000	-0.206994	-0.053102	-0.224212
-3.73E-05	-0.281378	2.186509	
0.50000	-0.206994	1.842597	-0.224212
-3.73E-05	-0.002664	1.074265	
0.75000	-0.206994	3.738297	-0.224212
-3.73E-05	0.276049	-2.394489	
1.00000	-0.206994	5.633997	-0.224212
-3.73E-05	0.554762	-8.219752	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.606714	-17.182064	-0.543038
0.000123	-1.361975	-9.277937	
0.25000	-0.606714	-6.254133	-0.543038
0.000123	-0.686934	5.288617	
0.50000	-0.606714	4.673798	-0.543038
0.000123	-0.011893	6.270860	
0.75000	-0.606714	15.601729	-0.543038
0.000123	0.663149	-6.331208	
1.00000	-0.606714	26.529660	-0.543038
0.000123	1.338190	-32.517587	

ELEM 405 ========== LENGTH = 4.972676

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.151224	-1.898494	-0.172132
-9.26E-05	-0.466418	-8.162440	
0.25000	-0.151224	-0.002662	-0.172132
-9.26E-05	-0.252429	-6.980710	
0.50000	-0.151224	1.893171	-0.172132
-9.26E-05	-0.038439	-5.155822	
0.75000	-0.151224	3.789004	-0.172132
-9.26E-05	0.175550	-11.687774	
1.00000	-0.151224	5.684837	-0.172132
-9.26E-05	0.389539	-17.576566	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.540744	-18.001436	-0.408991
-3.14E-05	-1.112371	-32.379915	
0.25000	-0.540744	-7.072737	-0.408991
-3.14E-05	-0.603926	-16.794197	
0.50000	-0.540744	3.855962	-0.408991
-3.14E-05	-0.095480	-1.794699	
0.75000	-0.540744	14.784661	-0.408991
-3.14E-05	0.412965	-26.381421	
1.00000	-0.540744	25.713360	-0.408991
-3.14E-05	0.921411	-51.554364	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
179

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 406 ========== LENGTH = 3.480724

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.070836	-0.954280	-0.149994
-6.18E-05	-0.322926	-17.533368	
0.25000	-0.070836	0.372746	-0.149994
-6.18E-05	-0.192404	-17.280348	
0.50000	-0.070836	1.699770	-0.149994
-6.18E-05	-0.061882	-18.182081	
0.75000	-0.070836	3.026798	-0.149994
-6.18E-05	0.068639	-20.238567	
1.00000	-0.070836	4.353825	-0.149994
-6.18E-05	0.199161	-23.449806	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.484240	-13.215124	-0.345072
-5.91E-05	-0.749502	-51.452587	
0.25000	-0.484240	-5.565362	-0.345072
-5.91E-05	-0.449227	-43.281375	
0.50000	-0.484240	2.084399	-0.345072
-5.91E-05	-0.148952	-41.766841	
0.75000	-0.484240	9.734161	-0.345072
-5.91E-05	0.151322	-46.908985	
1.00000	-0.484240	17.383923	-0.345072
-5.91E-05	0.451597	-58.707807	

ELEM 407 ========== LENGTH = 3.481038

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.066718	-4.225060	0.057317
8.32E-05	0.039494	-23.442902	
0.25000	-0.066718	-2.897915	0.057317
8.32E-05	-0.010387	-20.343484	
0.50000	-0.066718	-1.570769	0.057317
8.32E-05	-0.060267	-17.803927	
0.75000	-0.066718	-0.243623	0.057317
8.32E-05	-0.110147	-17.609531	
1.00000	-0.066718	1.083523	0.057317
8.32E-05	-0.160027	-17.974996	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.476568	-17.061868	0.156276
0.000114	0.126208	-58.693221	
0.25000	-0.476568	-9.411417	0.156276
0.000114	-0.009793	-47.173907	
0.50000	-0.476568	-1.760966	0.156276
0.000114	-0.145793	-42.312471	
0.75000	-0.476568	5.889485	0.156276
0.000114	-0.281793	-44.108912	
1.00000	-0.476568	13.539936	0.156276
0.000114	-0.417794	-52.563231	

ELEM 408 ========== LENGTH = 4.972999

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.141009	-5.513179	0.124666
0.000111	0.270919	-18.001206	
0.25000	-0.141009	-3.617223	0.124666
0.000111	0.115928	-12.325520	
0.50000	-0.141009	-1.721267	0.124666
0.000111	-0.039063	-9.006982	
0.75000	-0.141009	0.174689	0.124666
0.000111	-0.194054	-8.045590	
1.00000	-0.141009	2.070645	0.124666
0.000111	-0.349045	-9.441346	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
180

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.512909	-25.282540	0.312932
8.08E-05	0.680416	-52.630442	
0.25000	-0.512909	-14.353130	0.312932
8.08E-05	0.291363	-27.991922	
0.50000	-0.512909	-3.423721	0.312932
8.08E-05	-0.097690	-16.941388	
0.75000	-0.512909	7.505688	0.312932
8.08E-05	-0.486743	-19.478840	
1.00000	-0.512909	18.435097	0.312932
8.08E-05	-0.875796	-35.604278	

ELEM 409 ========== LENGTH = 4.972771

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192130	-5.446683	0.179152
5.59E-05	0.438352	-9.488778	
0.25000	-0.192130	-3.550814	0.179152
5.59E-05	0.215531	-3.895966	
0.50000	-0.192130	-1.654945	0.179152
5.59E-05	-0.007090	-0.660085	
0.75000	-0.192130	0.240924	0.179152
5.59E-05	-0.229811	0.218865	
1.00000	-0.192130	2.136794	0.179152
5.59E-05	-0.452531	-1.259116	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.563068	-26.059825	0.453884
-7.33E-05	1.105551	-35.723481	
0.25000	-0.563068	-15.130917	0.453884
-7.33E-05	0.541286	-10.119463	
0.50000	-0.563068	-4.202008	0.453884
-7.33E-05	-0.022978	1.897814	
0.75000	-0.563068	6.726900	0.453884
-7.33E-05	-0.587243	0.328351	
1.00000	-0.563068	17.655809	0.453884
-7.33E-05	-1.151508	-14.827854	

ELEM 410 ========== LENGTH = 4.972670

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.216603	-5.373580	0.163785
1.03E-05	0.426493	-1.312171	
0.25000	-0.216603	-3.477750	0.163785
1.03E-05	0.222880	4.189671	
0.50000	-0.216603	-1.581920	0.163785
1.03E-05	0.019268	7.334679	
0.75000	-0.216603	0.313911	0.163785
1.03E-05	-0.184345	8.122852	
1.00000	-0.216603	2.209741	0.163785
1.03E-05	-0.387958	6.554192	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.616529	-25.952165	0.426117
-0.000138	1.103302	-14.963966	
0.25000	-0.616529	-15.023481	0.426117
-0.000138	0.597567	10.505827	
0.50000	-0.616529	-4.094797	0.426117
-0.000138	0.043832	22.389437	
0.75000	-0.616529	6.833888	0.426117
-0.000138	-0.485903	20.686862	
1.00000	-0.616529	17.762572	0.426117
-0.000138	-1.015637	5.398104	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
181

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 411 ========== LENGTH = 4.972693

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.230422	-4.388617	0.092965
-2.34E-07	0.269793	6.506365	
0.25000	-0.230422	-2.492778	0.092965
-2.34E-07	0.154221	10.785748	
0.50000	-0.230422	-0.596938	0.092965
-2.34E-07	0.038649	12.706274	
0.75000	-0.230422	1.298901	0.092965
-2.34E-07	-0.076923	12.269943	
1.00000	-0.230422	3.194741	0.092965
-2.34E-07	-0.192496	9.476755	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.657251	-23.576027	0.256503
-8.39E-05	0.732937	5.278130	
0.25000	-0.657251	-12.644590	0.256503
-8.39E-05	0.414059	27.794061	
0.50000	-0.657251	-1.718553	0.256503
-8.39E-05	0.095181	36.723678	
0.75000	-0.657251	9.210184	0.256503
-8.39E-05	-0.223697	32.066980	
1.00000	-0.657251	20.139921	0.256503
-8.39E-05	-0.542575	13.823968	

ELEM 412 ========== LENGTH = 4.972843

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.240125	-3.465575	-0.005319
8.99E-06	0.027726	9.457061	
0.25000	-0.240125	-1.569679	-0.005319
8.99E-06	0.034339	12.587002	
0.50000	-0.240125	0.326215	-0.005319
8.99E-06	0.040952	13.359943	
0.75000	-0.240125	2.222114	-0.005319
8.99E-06	0.047565	11.775886	
1.00000	-0.240125	4.118011	-0.005319
8.99E-06	0.054177	7.834830	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.679756	-21.107721	0.013270
2.44E-05	0.136064	13.767828	
0.25000	-0.679756	-10.178654	0.013270
2.44E-05	0.119566	33.215608	
0.50000	-0.679756	0.750412	0.013270
2.44E-05	0.103068	39.076255	
0.75000	-0.679756	11.679478	0.013270
2.44E-05	0.086570	31.349768	
1.00000	-0.679756	22.608544	0.013270
2.44E-05	0.070072	10.036148	

ELEM 413 ========== LENGTH = 4.973066

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.246263	-2.523548	-0.094335
1.52E-05	-0.205667	7.844163	
0.25000	-0.246263	-0.627567	-0.094335
1.52E-05	-0.088384	9.803001	
0.50000	-0.246263	1.268414	-0.094335
1.52E-05	0.028899	9.404629	
0.75000	-0.246263	3.164396	-0.094335
1.52E-05	0.146182	6.649048	
1.00000	-0.246263	5.060377	-0.094335
1.52E-05	0.263465	1.536256	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
182

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.680413	-18.589516	-0.208687
0.000125	-0.446216	10.052315	
0.25000	-0.680413	-7.659961	-0.208687
0.000125	-0.186763	26.369862	
0.50000	-0.680413	3.269593	-0.208687
0.000125	0.072690	29.099060	
0.75000	-0.680413	14.199148	-0.208687
0.000125	0.332143	18.239911	
1.00000	-0.680413	25.128703	-0.208687
0.000125	0.591596	-6.207587	

ELEM 414 ========== LENGTH = 4.972522

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251845	-2.022552	-0.141329
-2.21E-06	-0.347974	1.572713	
0.25000	-0.251845	-0.126778	-0.141329
-2.21E-06	-0.172284	2.908662	
0.50000	-0.251845	1.768996	-0.141329
-2.21E-06	0.003405	1.887917	
0.75000	-0.251845	3.664770	-0.141329
-2.21E-06	0.179095	-1.489523	
1.00000	-0.251845	5.560544	-0.141329
-2.21E-06	0.354785	-7.223658	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.669027	-17.347550	-0.323780
0.000163	-0.797678	-6.124795	
0.25000	-0.669027	-6.419190	-0.323780
0.000163	-0.395177	8.647786	
0.50000	-0.669027	4.509171	-0.323780
0.000163	0.007324	9.834987	
0.75000	-0.669027	15.437532	-0.323780
0.000163	0.409825	-2.563191	
1.00000	-0.669027	26.365892	-0.323780
0.000163	0.812325	-28.546748	

ELEM 415 ========== LENGTH = 4.972986

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.238029	-1.817726	-0.124371
-5.51E-05	-0.335597	-7.181629	
0.25000	-0.238029	0.078225	-0.124371
-5.51E-05	-0.180973	-6.110514	
0.50000	-0.238029	1.974176	-0.124371
-5.51E-05	-0.026350	-7.376134	
0.75000	-0.238029	3.870127	-0.124371
-5.51E-05	0.128274	-11.009089	
1.00000	-0.238029	5.766078	-0.124371
-5.51E-05	0.282898	-16.999179	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.623935	-16.862720	-0.277468
7.99E-05	-0.757505	-28.451081	
0.25000	-0.623935	-5.933339	-0.277468
7.99E-05	-0.412544	-14.280519	
0.50000	-0.623935	4.996042	-0.277468
7.99E-05	-0.067583	-13.697873	
0.75000	-0.623935	15.925423	-0.277468
7.99E-05	0.277378	-26.703143	
1.00000	-0.623935	26.854804	-0.277468
7.99E-05	0.622338	-53.296329	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
183

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 416 ========== LENGTH = 4.972637

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.154367	-2.017221	-0.037340
0.000121	-0.150233	-16.973291	
0.25000	-0.154367	-0.121490	-0.037340
-0.000121	-0.103814	-15.643966	
0.50000	-0.154367	1.774415	-0.037340
-0.000121	-0.057395	-16.671445	
0.75000	-0.154367	3.670233	-0.037340
-0.000121	-0.010976	-20.055727	
1.00000	-0.154367	5.566051	-0.037340
-0.000121	0.035443	-25.796813	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.485455	-18.530492	-0.064635
-0.000102	-0.298549	-53.241491	
0.25000	-0.485455	-7.601879	-0.064635
-0.000102	-0.218198	-36.998141	
0.50000	-0.485455	3.326735	-0.064635
-0.000102	-0.137847	-34.340798	
0.75000	-0.485455	14.255348	-0.064635
-0.000102	-0.057496	-45.269463	
1.00000	-0.485455	25.183962	-0.064635
-0.000102	0.022855	-69.784136	

ELEM 417 ========== LENGTH = 3.481206

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.009792	-0.476600	0.180431
-0.000111	0.230089	-25.808233	
0.25000	0.009792	0.850609	0.180431
-0.000111	0.073059	-25.970983	
0.50000	0.009792	2.177819	0.180431
-0.000111	-0.083970	-27.288806	
0.75000	0.009792	3.505029	0.180431
-0.000111	-0.240999	-29.761701	
1.00000	0.009792	4.832238	0.180431
-0.000111	-0.398029	-33.389669	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.238608	-10.674468	0.485438
-0.000182	0.641976	-69.811945	
0.25000	-0.238608	-3.023648	0.485438
-0.000182	0.219498	-63.859200	
0.50000	-0.238608	4.627172	0.485438
-0.000182	-0.202979	-64.556975	
0.75000	-0.238608	12.277992	0.485438
-0.000182	-0.625457	-71.913269	
1.00000	-0.238608	19.928812	0.485438
-0.000182	-1.047935	-85.928082	

ELEM 418 ========== LENGTH = 4.972694

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.002944	-5.956865	0.250596
3.14E-05	0.534937	-33.446077	
0.25000	0.002944	-4.061026	0.250596
3.14E-05	0.223403	-27.219088	
0.50000	0.002944	-2.165186	0.250596
3.14E-05	-0.088131	-23.348958	
0.75000	0.002944	-0.269346	0.250596
3.14E-05	-0.399665	-21.835685	
1.00000	0.002944	1.626493	0.250596
3.14E-05	-0.711200	-22.679269	

Program SAP2000 Nonlinear Version 7.42

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
184

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251428	-25.835606	0.625647
-6.74E-05	1.347084	-86.073587	
0.25000	-0.251428	-14.906867	0.625647
-6.74E-05	0.569297	-60.748604	
0.50000	-0.251428	-3.978129	0.625647
-6.74E-05	-0.208491	-49.009940	
0.75000	-0.251428	6.950610	0.625647
-6.74E-05	-0.986279	-50.857596	
1.00000	-0.251428	17.879349	0.625647
-6.74E-05	-1.764067	-66.291570	

ELEM 419 ========== LENGTH = 4.972684

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.215579	-6.575114	0.394542
3.66E-05	0.939781	-22.778736	
0.25000	-0.215579	-4.679278	0.394542
3.66E-05	0.449297	-15.783169	
0.50000	-0.215579	-2.783443	0.394542
3.66E-05	-0.041186	-11.144450	
0.75000	-0.215579	-0.887607	0.394542
3.66E-05	-0.531669	-8.862579	
1.00000	-0.215579	1.008229	0.394542
3.66E-05	-1.022153	-8.937556	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.581430	-28.604226	0.970471
-0.000172	2.310825	-66.536802	
0.25000	-0.581430	-17.675510	0.970471
-0.000172	1.104364	-37.769991	
0.50000	-0.581430	-6.746794	0.970471
-0.000172	-0.102097	-22.589441	
0.75000	-0.581430	4.181922	0.970471
-0.000172	-1.308558	-20.995155	
1.00000	-0.581430	15.110638	0.970471
-0.000172	-2.515019	-32.987130	

ELEM 420 ========== LENGTH = 4.972800

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.319528	-6.683622	0.437123
-3.30E-05	1.089659	-9.664827	
0.25000	-0.319528	-4.787942	0.437123
-3.30E-05	0.546227	-1.933978	
0.50000	-0.319528	-2.892062	0.437123
-3.30E-05	0.002795	2.839913	
0.75000	-0.319528	-0.996182	0.437123
-3.30E-05	-0.540636	5.256846	
1.00000	-0.319528	0.899698	0.437123
-3.30E-05	-1.084068	5.316821	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.743684	-28.768460	1.079520
-0.000330	2.687234	-33.300685	
0.25000	-0.743684	-17.839488	1.079520
-0.000330	1.345175	-4.329185	
0.50000	-0.743684	-6.910517	1.079520
-0.000330	0.003116	11.055419	
0.75000	-0.743684	4.018454	1.079520
-0.000330	-1.338943	12.853125	
1.00000	-0.743684	14.947425	1.079520
-0.000330	-2.681001	1.063935	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
185

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 421 ========== LENGTH = 4.972951

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.342175	-6.247176	0.384514
-6.71E-05	1.001139	5.191233	
0.25000	-0.342175	-4.351238	0.384514
-6.71E-05	0.523097	11.779407	
0.50000	-0.342175	-2.455301	0.384514
-6.71E-05	0.045054	16.010480	
0.75000	-0.342175	-0.559363	0.384514
-6.71E-05	-0.432989	17.884451	
1.00000	-0.342175	1.336574	0.384514
-6.71E-05	-0.911032	17.401322	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.775676	-27.883776	0.960614
-0.000355	2.493675	0.752277	
0.25000	-0.775676	-16.954473	0.960614
-0.000355	1.299403	28.624578	
0.50000	-0.775676	-6.025171	0.960614
-0.000355	0.105132	42.969158	
0.75000	-0.775676	4.904132	0.960614
-0.000355	-1.089140	43.606017	
1.00000	-0.775676	15.833435	0.960614
-0.000355	-2.283412	30.715155	

ELEM 422 ========== LENGTH = 4.972416

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.326754	-5.297639	0.251734
-5.63E-05	0.701583	17.360592	
0.25000	-0.326754	-3.401905	0.251734
-5.63E-05	0.388751	22.710812	
0.50000	-0.326754	-1.506172	0.251734
-5.63E-05	0.075820	25.761437	
0.75000	-0.326754	0.389562	0.251734
-5.63E-05	-0.237112	26.455468	
1.00000	-0.326754	2.285296	0.251734
-5.63E-05	-0.550044	24.792905	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.721418	-25.580924	0.647760
-0.000257	1.791094	30.468312	
0.25000	-0.721418	-14.652795	0.647760
-0.000257	0.985861	55.475662	
0.50000	-0.721418	-3.724667	0.647760
-0.000257	0.180629	66.898212	
0.75000	-0.721418	7.203461	0.647760
-0.000257	-0.624604	64.735960	
1.00000	-0.721418	18.131589	0.647760
-0.000257	-1.429836	48.988908	

ELEM 423 ========== LENGTH = 4.972811

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283567	-4.474577	0.068300
-2.17E-05	0.261969	24.744712	
0.25000	-0.283567	-2.578693	0.068300
-2.17E-05	0.177058	29.129033	
0.50000	-0.283567	-0.682809	0.068300
-2.17E-05	0.092147	31.156387	
0.75000	-0.283567	1.213076	0.068300
-2.17E-05	0.007236	30.826772	
1.00000	-0.283567	3.108960	0.068300
-2.17E-05	-0.077675	28.140189	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
186

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.588672	-23.595837	0.210220
-9.08E-05	0.744023	48.859696	
0.25000	-0.588672	-12.666843	0.210220
-9.08E-05	0.486676	71.406625	
0.50000	-0.588672	-1.737648	0.210220
-9.08E-05	0.221330	80.354600	
0.75000	-0.588672	9.191146	0.210220
-9.08E-05	-0.040017	75.721621	
1.00000	-0.588672	20.120141	0.210220
-9.08E-05	-0.301364	57.501686	

ELEM 424 ========== LENGTH = 4.973321

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.191276	-3.646450	-0.135255
2.25E-05	-0.240412	28.150725	
0.25000	-0.191276	-1.750371	-0.135255
2.25E-05	-0.072246	31.505740	
0.50000	-0.191276	0.145708	-0.135255
2.25E-05	0.095921	32.503304	
0.75000	-0.191276	2.041786	-0.135255
2.25E-05	0.264087	31.143415	
1.00000	-0.191276	3.937865	-0.135255
2.25E-05	0.432253	27.426074	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.319886	-21.581948	-0.278787
0.000102	-0.461502	57.513132	
0.25000	-0.319886	-10.651831	-0.278787
0.000102	-0.114877	77.551749	
0.50000	-0.319886	0.272286	-0.278787
0.000102	0.231748	84.000620	
0.75000	-0.319886	11.208403	-0.278787
0.000102	0.578373	76.859745	
1.00000	-0.319886	22.138520	-0.278787
0.000102	0.924998	56.129124	

ELEM 425 ========== LENGTH = 4.972184

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.037669	-2.849528	-0.331214
6.5E-05	-0.736867	27.503528	
0.25000	-0.037669	-0.953922	-0.331214
6.5E-05	-0.325152	29.867484	
0.50000	-0.037669	0.941723	-0.331214
6.5E-05	0.086562	29.875067	
0.75000	-0.037669	2.837368	-0.331214
6.5E-05	0.498277	27.526275	
1.00000	-0.037669	4.733013	-0.331214
6.5E-05	0.909991	22.821108	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.120669	-19.706508	-0.753113
0.000300	-1.661545	56.302032	
0.25000	0.120669	-8.778889	-0.753113
0.000300	-0.725391	74.006363	
0.50000	0.120669	2.148729	-0.753113
0.000300	0.210764	78.147161	
0.75000	0.120669	13.076347	-0.753113
0.000300	1.146919	68.664425	
1.00000	0.120669	24.003965	-0.753113
0.000300	2.083074	45.618157	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
187

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 426 ========== LENGTH = 4.972939

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.178313	-2.623556	-0.505556
7.42E-05	-1.180440	22.941137	
0.25000	0.178313	-0.727624	-0.505556
7.42E-05	-0.551914	25.024288	
0.50000	0.178313	1.168309	-0.505556
7.42E-05	0.076611	24.750350	
0.75000	0.178313	3.064242	-0.505556
7.42E-05	0.705136	22.119323	
1.00000	0.178313	4.960175	-0.505556
7.42E-05	1.333661	17.131205	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.729308	-18.962920	-1.179299
0.000431	-2.744504	45.894783	
0.25000	0.729308	-8.033643	-1.179299
0.000431	-1.278359	62.676315	
0.50000	0.729308	2.895633	-1.179299
0.000431	0.187786	65.870191	
0.75000	0.729308	13.824910	-1.179299
0.000431	1.653931	55.476411	
1.00000	0.729308	24.754186	-1.179299
0.000431	3.120076	31.494976	

ELEM 427 ========== LENGTH = 4.972939

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.340353	-1.142017	-0.520817
4.22E-06	-1.344293	17.292541	
0.25000	0.340353	0.753916	-0.520817
4.22E-06	-0.696796	17.533792	
0.50000	0.340353	2.649849	-0.520817
4.22E-06	-0.049298	15.417953	
0.75000	0.340353	4.545781	-0.520817
4.22E-06	0.598199	10.945024	
1.00000	0.340353	6.441714	-0.520817
4.22E-06	1.245696	4.115006	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.156956	-15.982211	-1.230297
0.000400	-3.169879	31.873783	
0.25000	1.156956	-5.052935	-1.230297
0.000400	-1.640331	44.949595	
0.50000	1.156956	5.876341	-1.230297
0.000400	-0.110782	44.437751	
0.75000	1.156956	16.805618	-1.230297
0.000400	1.418766	30.338252	
1.00000	1.156956	27.734894	-1.230297
0.000400	2.948315	2.651096	

ELEM 428 ========== LENGTH = 1.491642

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.200606	1.999105	-5.441990
-5.99E-05	-3.917339	4.425475	
0.25000	0.200606	2.567794	-5.441990
-5.99E-05	-1.887963	3.573953	
0.50000	0.200606	3.136482	-5.441990
-5.99E-05	0.141412	2.510361	
0.75000	0.200606	3.705171	-5.441990
-5.99E-05	2.170787	1.234699	
1.00000	0.200606	4.273859	-5.441990
-5.99E-05	4.200163	-0.253034	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
188

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.670306	-3.882157	-12.928676
0.000472	-9.311288	3.388914	
0.25000	0.670306	-0.603901	-12.928676
0.000472	-4.490049	4.225363	
0.50000	0.670306	2.674356	-12.928676
0.000472	0.331190	3.839316	
0.75000	0.670306	5.952612	-12.928676
0.000472	5.152429	2.230772	
1.00000	0.670306	9.230868	-12.928676
0.000472	9.973668	-0.600267	

ELEM 429 ========== LENGTH = 4.449003

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.017536	-5.456324	0.541666
-0.000407	1.268232	-0.076489	
0.25000	0.017536	-3.760141	0.541666
-0.000407	0.665763	5.049021	
0.50000	0.017536	-2.063959	0.541666
-0.000407	0.063294	8.287951	
0.75000	0.017536	-0.367777	0.541666
-0.000407	-0.539174	9.640301	
1.00000	0.017536	1.328406	0.541666
-0.000407	-1.141643	9.106071	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036812	-21.767001	1.315555
-0.001255	3.084463	-0.187330	
0.25000	0.036812	-12.202757	1.315555
-0.001255	1.621236	18.704114	
0.50000	0.036812	-2.638514	1.315555
-0.001255	0.158009	26.957721	
0.75000	0.036812	6.925730	1.315555
-0.001255	-1.305217	24.573491	
1.00000	0.036812	16.489974	1.315555
-0.001255	-2.768444	11.551424	

ELEM 430 ========== LENGTH = 4.942978

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.054743	-4.985975	0.330534
-0.000204	0.858323	8.989794	
0.25000	0.054743	-3.101465	0.330534
-0.000204	0.449867	13.986798	
0.50000	0.054743	-1.216954	0.330534
-0.000204	0.041411	16.655037	
0.75000	0.054743	0.667556	0.330534
-0.000204	-0.367045	16.994487	
1.00000	0.054743	2.552067	0.330534
-0.000204	-0.775500	15.005171	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.134981	-24.376461	0.801640
-0.000681	2.080953	11.273723	
0.25000	0.134981	-13.750294	0.801640
-0.000681	1.090331	34.831188	
0.50000	0.134981	-3.124127	0.801640
-0.000681	0.099708	45.257424	
0.75000	0.134981	7.502041	0.801640
-0.000681	-0.890914	42.552432	
1.00000	0.134981	18.128208	0.801640
-0.000681	-1.881536	26.716212	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
189

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 431 ========== LENGTH = 4.943166

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.098588	-4.478690	0.213637
-8.02E-05	0.592160	14.927552	
0.25000	0.098588	-2.594108	0.213637
-8.02E-05	0.328149	19.297804	
0.50000	0.098588	-0.709526	0.213637
-8.02E-05	0.064139	21.339105	
0.75000	0.098588	1.175056	0.213637
-8.02E-05	-0.199872	21.051456	
1.00000	0.098588	3.059638	0.213637
-8.02E-05	-0.463882	18.434857	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.259709	-22.862473	0.519706
-0.000303	1.440206	26.530218	
0.25000	0.259709	-12.235901	0.519706
-0.000303	0.797957	48.217354	
0.50000	0.259709	-1.609330	0.519706
-0.000303	0.155709	56.772264	
0.75000	0.259709	9.017241	0.519706
-0.000303	-0.486540	52.194948	
1.00000	0.259709	19.643812	0.519706
-0.000303	-1.128788	34.485405	

ELEM 432 ========== LENGTH = 4.942369

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.121921	-3.701377	0.061236
-1.15E-05	0.220771	18.393739	
0.25000	0.121921	-1.817099	0.061236
-1.15E-05	0.145108	21.803032	
0.50000	0.121921	0.067179	0.061236
-1.15E-05	0.069444	22.884126	
0.75000	0.121921	1.951458	0.061236
-1.15E-05	-0.006219	21.637020	
1.00000	0.121921	3.835736	0.061236
-1.15E-05	-0.081882	18.061714	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.324036	-21.068997	0.149668
-5.32E-05	0.537789	34.385357	
0.25000	0.324036	-10.444139	0.149668
-5.32E-05	0.352861	53.854051	
0.50000	0.324036	0.180719	0.149668
-5.32E-05	0.167932	60.194752	
0.75000	0.324036	10.805578	0.149668
-5.32E-05	-0.016996	53.407460	
1.00000	0.324036	21.430436	0.149668
-5.32E-05	-0.201924	33.492175	

ELEM 433 ========== LENGTH = 4.943793

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.131202	-2.870002	-0.089942
3.63E-05	-0.160329	18.060318	
0.25000	0.131202	-0.985181	-0.089942
3.63E-05	-0.049165	20.442722	
0.50000	0.131202	0.890640	-0.089942
3.63E-05	0.061999	20.495584	
0.75000	0.131202	2.784460	-0.089942
3.63E-05	0.173162	18.218906	
1.00000	0.131202	4.669281	-0.089942
3.63E-05	0.284326	13.612687	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
190

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.349640	-19.050366	-0.216435
0.000142	-0.385576	33.486010	
0.25000	0.349640	-8.422447	-0.216435
0.000142	-0.118074	50.463497	
0.50000	0.349640	2.205471	-0.216435
0.000142	0.149428	54.305427	
0.75000	0.349640	12.833389	-0.216435
0.000142	0.416931	45.011802	
1.00000	0.349640	23.461307	-0.216435
0.000142	0.684433	22.582621	

ELEM 434 ========== LENGTH = 4.943147

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.136230	-1.934821	-0.208168
8.34E-05	-0.474193	13.664846	
0.25000	0.136230	-0.050246	-0.208168
8.34E-05	-0.216942	14.891405	
0.50000	0.136230	1.834329	-0.208168
8.34E-05	0.040308	13.789032	
0.75000	0.136230	3.718904	-0.208168
8.34E-05	0.297559	10.357726	
1.00000	0.136230	5.603479	-0.208168
8.34E-05	0.554810	4.597487	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.361829	-16.805822	-0.500923
0.000323	-1.141743	22.711216	
0.25000	0.361829	-6.179004	-0.500923
0.000323	-0.522709	36.913566	
0.50000	0.361829	4.447240	-0.500923
0.000323	0.096325	37.983789	
0.75000	0.361829	15.073771	-0.500923
0.000323	0.715360	25.921885	
1.00000	0.361829	25.700303	-0.500923
0.000323	1.334394	0.727855	

ELEM 435 ========== LENGTH = 4.942921

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.146816	-1.411658	-0.263107
0.000141	-0.643557	4.674458	
0.25000	0.146816	0.472830	-0.263107
0.000141	-0.318428	5.254527	
0.50000	0.146816	2.357319	-0.263107
0.000141	0.006701	3.505876	
0.75000	0.146816	4.241808	-0.263107
0.000141	0.331831	-0.571494	
1.00000	0.146816	6.126296	-0.263107
0.000141	0.656960	-6.977583	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.377786	-15.706313	-0.630313
0.000502	-1.542504	0.915692	
0.25000	0.377786	-5.080269	-0.630313
0.000502	-0.763607	13.758996	
0.50000	0.377786	5.545775	-0.630313
0.000502	0.015290	13.471376	
0.75000	0.377786	16.171819	-0.630313
0.000502	0.794187	0.052832	
1.00000	0.377786	26.797863	-0.630313
0.000502	1.573083	-26.496634	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
191

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 436 ========== LENGTH = 4.942535

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.143488	-1.321950	-0.235486
0.000195	-0.613371	-6.900805	
0.25000	0.143488	0.562392	-0.235486
0.000195	-0.322397	-6.431537	
0.50000	0.143488	2.446733	-0.235486
0.000195	-0.031423	-8.290625	
0.75000	0.143488	4.331074	-0.235486
0.000195	0.259552	-12.478069	
1.00000	0.143488	6.215416	-0.235486
0.000195	0.550526	-18.993868	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.360043	-15.474263	-0.560617
0.000629	-1.460329	-26.312927	

0.25000	0.360043	-4.849049	-0.560617
0.000629	-0.767611	-13.756843	
0.50000	0.360043	5.776165	-0.560617
0.000629	-0.074894	-14.329631	
0.75000	0.360043	16.401379	-0.560617
0.000629	0.617824	-28.031291	
1.00000	0.360043	27.026593	-0.560617
0.000629	1.310542	-54.861824	

ELEM 437 ========== LENGTH = 4.943534

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.116722	-1.931871	-0.115018
0.000126	-0.355820	-18.939831	
0.25000	0.116722	-0.047148	-0.115018
0.000126	-0.213670	-17.716912	
0.50000	0.116722	1.837574	-0.115018
0.000126	-0.071521	-18.823291	
0.75000	0.116722	3.722297	-0.115018
0.000126	0.070628	-22.258968	
1.00000	0.116722	5.607019	-0.115018
0.000126	0.212777	-28.023942	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.323940	-18.029831	-0.284274
0.000389	-0.862950	-54.732873	
0.25000	0.323940	-7.402468	-0.284274
0.000389	-0.511620	-39.017193	
0.50000	0.323940	3.224895	-0.284274
0.000389	-0.160290	-36.435696	
0.75000	0.323940	13.852258	-0.284274
0.000389	0.191039	-46.988382	
1.00000	0.323940	24.479621	-0.284274
0.000389	0.542369	-70.675253	

ELEM 438 ========== LENGTH = 3.459946

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.120241	-4.710493	0.060755
-9.64E-05	0.033663	-28.012580	
0.25000	0.120241	-3.391389	0.060755
-9.64E-05	-0.018889	-24.508571	
0.50000	0.120241	-2.072284	0.060755
-9.64E-05	-0.071441	-22.145569	
0.75000	0.120241	-0.753180	0.060755
-9.64E-05	-0.123993	-20.923575	
1.00000	0.120241	0.565924	0.060755
-9.64E-05	-0.176546	-20.842588	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD > 192

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.328912	-19.175467	0.081527
-0.000299	-0.023659	-70.638801	
0.25000	0.328912	-11.737449	0.081527
-0.000299	-0.094178	-57.269173	
0.50000	0.328912	-4.299430	0.081527
-0.000299	-0.164698	-50.333332	
0.75000	0.328912	3.138589	0.081527
-0.000299	-0.235217	-49.831276	
1.00000	0.328912	10.576608	0.081527
-0.000299	-0.305737	-55.763006	

ELEM 439 ========== LENGTH = 4.943169

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.148689	-5.639091	0.141498
-0.000167	0.303578	-20.871972	
0.25000	0.148689	-3.754508	0.141498
-0.000167	0.128716	-15.067705	
0.50000	0.148689	-1.869925	0.141498
-0.000167	-0.046146	-11.592390	
0.75000	0.148689	0.014658	0.141498
-0.000167	-0.221008	-10.446028	
1.00000	0.148689	1.899241	0.141498
-0.000167	-0.395870	-11.628619	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.370682	-24.544336	0.299813
-0.000525	0.633115	-55.821747	
0.25000	0.370682	-13.917759	0.299813
-0.000525	0.262608	-32.056169	
0.50000	0.370682	-3.291182	0.299813
-0.000525	-0.107898	-21.422831	
0.75000	0.370682	7.335395	0.299813
-0.000525	-0.478404	-23.921735	
1.00000	0.370682	17.961972	0.299813
-0.000525	-0.848910	-39.552878	

ELEM 440 ========== LENGTH = 4.943265

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.153737	-5.758720	0.203903
-0.000135	0.493766	-11.682025	
0.25000	0.153737	-3.874101	0.203903
-0.000135	0.241779	-5.729827	
0.50000	0.153737	-1.989481	0.203903
-0.000135	-0.010208	-2.106672	
0.75000	0.153737	-0.104861	0.203903
-0.000135	-0.262195	-0.812561	
1.00000	0.153737	1.779758	0.203903
-0.000135	-0.514182	-1.847493	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.395299	-26.034820	0.455236
-0.000481	0.395097	-59.660344	
0.25000	0.395299	-15.408037	0.455236
-0.000481	0.532510	-14.061468	
0.50000	0.395299	-4.781254	0.455236
-0.000481	-0.030078	-1.586342	
0.75000	0.395299	5.845529	0.455236
-0.000481	-0.592665	-2.243966	
1.00000	0.395299	16.472312	0.455236
-0.000481	-1.155252	-16.034341	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD > 193

FRAME ELEMENT INTERNAL FORCES

ELEM 441 ========== LENGTH = 4.942631

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.150195	-5.562595	0.188873
-8.20E-05	0.486447	-1.902185	
0.25000	0.150195	-3.678217	0.188873
-8.20E-05	0.253065	3.807055	
0.50000	0.150195	-1.793839	0.188873
-8.20E-05	0.019682	7.187849	
0.75000	0.150195	0.090539	0.188873
-8.20E-05	-0.213700	8.240197	
1.00000	0.150195	1.974917	0.188873
-8.20E-05	-0.447083	6.964098	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.403717	-25.487317	0.432777
-0.000328	1.111300	-16.153796	
0.25000	0.403717	-14.861896	0.432777
-0.000328	0.576536	8.775112	
0.50000	0.403717	-4.236476	0.432777
-0.000328	0.041772	20.574637	
0.75000	0.403717	6.388945	0.432777
-0.000328	-0.492993	19.244780	
1.00000	0.403717	17.014366	0.432777
-0.000328	-1.027757	4.785539	

ELEM 442 ========== LENGTH = 4.943051

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.150515	-4.697292	0.112474
-3.76E-05	0.320279	6.918046	
0.25000	0.150515	-2.812694	0.112474
-3.76E-05	0.181288	11.558290	
0.50000	0.150515	-0.928155	0.112474
-3.76E-05	0.042296	13.869691	
0.75000	0.150515	0.956383	0.112474
-3.76E-05	-0.096695	13.852250	
1.00000	0.150515	2.840921	0.112474
-3.76E-05	-0.235687	11.505966	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.410006	-23.546698	0.260061
-0.000161	0.739503	4.679544	
0.25000	0.410006	-12.920373	0.260061
-0.000161	0.418129	27.211870	
0.50000	0.410006	-2.294048	0.260061
-0.000161	0.096755	36.612578	
0.75000	0.410006	8.332276	0.260061
-0.000161	-0.224618	32.881669	
1.00000	0.410006	18.958601	0.260061
-0.000161	-0.545992	16.019143	

ELEM 443 ========== LENGTH = 4.942656

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.152660	-3.815362	0.001407
-1.61E-06	0.025085	11.482275	
0.25000	0.152660	-1.930974	0.001407
-1.61E-06	0.051346	15.032545	
0.50000	0.152660	-0.046586	0.001407
-1.61E-06	0.049607	16.254345	
0.75000	0.152660	1.837801	0.001407
-1.61E-06	0.047867	15.147676	
1.00000	0.152660	3.722169	0.001407
-1.61E-06	0.046128	11.712536	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD > 194

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.416676	-21.348804	0.001813
-3.03E-06	0.119312	15.961281	
0.25000	0.416676	-10.723328	0.001813
-3.03E-06	0.117072	35.776471	
0.50000	0.416676	-0.097853	0.001813
-3.03E-06	0.114832	42.462144	
0.75000	0.416676	10.527622	0.001813
-3.03E-06	0.112592	36.018299	
1.00000	0.416676	21.153097	0.001813
-3.03E-06	0.110353	16.444937	

ELEM 444 ========== LENGTH = 4.943326

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.154769	-2.936475	-0.110910
3.49E-05	-0.230508	11.722854	
0.25000	0.154769	-1.051832	-0.110910
3.49E-05	-0.093443	14.187292	
0.50000	0.154769	0.832811	-0.110910
3.49E-05	0.043623	14.322628	
0.75000	0.154769	2.717454	-0.110910
3.49E-05	0.180689	12.128864	
1.00000	0.154769	4.602097	-0.110910
3.49E-05	0.317754	7.605999	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.424832	-19.164792	-0.258928
0.000156	-0.540483	16.466242	
0.25000	0.424832	-8.537677	-0.258928
0.000156	-0.220492	33.584157	
0.50000	0.424832	2.089037	-0.258928
0.000156	0.099500	37.568896	
0.75000	0.424832	12.715952	-0.258928
0.000156	0.419492	28.420761	
1.00000	0.424832	23.342866	-0.258928
0.000156	0.739484	6.139451	

ELEM 445 ========== LENGTH = 4.943123

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.157428	-2.013832	-0.190706
8.11E-05	-0.449369	11.662328	
0.25000	0.157428	-0.129266	-0.190706
8.11E-05	-0.213698	8.976527	
0.50000	0.157428	1.755300	-0.190706
8.11E-05	0.021973	7.971817	
0.75000	0.157428	3.639866	-0.190706
8.11E-05	0.257644	4.638196	
1.00000	0.157428	5.524431	-0.190706
8.11E-05	0.493315	-1.024336	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.430740	-17.081517	-0.438338
0.000326	-1.036933	6.246846	
0.25000	0.430740	-6.455037	-0.438338
0.000326	-0.495243	20.789858	
0.50000	0.430740	4.171442	-0.438338
0.000326	0.046448	22.200869	
0.75000	0.430740	14.797922	-0.438338
0.000326	0.588138	10.479881	
1.00000	0.430740	25.424401	-0.438338
0.000326	1.129828	-14.373107	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD > 195

FRAME ELEMENT INTERNAL FORCES

ELEM 446 ========== LENGTH = 4.943048

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.165751	-1.841277	-0.210719
0.000135	-0.528045	-0.962918	
0.25000	0.165751	0.043260	-0.210719
0.000135	-0.267646	0.148043	
0.50000	0.165751	1.927797	-0.210719
0.000135	-0.007247	-1.069835	
0.75000	0.165751	3.812334	-0.210719
0.000135	0.253151	-4.616553	
1.00000	0.165751	5.696871	-0.210719
0.000135	0.513550	-10.492109	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.440602	-16.658110	-0.470844
0.000478	-1.187519	-14.233775	
0.25000	0.440602	-6.031794	-0.470844
0.000478	-0.605668	-0.214115	
0.50000	0.440602	4.594523	-0.470844
0.000478	-0.023817	0.673947	
0.75000	0.440602	15.220840	-0.470844
0.000478	0.558033	-11.569589	
1.00000	0.440602	25.847157	-0.470844
0.000478	1.139884	-36.944723	

ELEM 447 ========== LENGTH = 4.943134

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.168934	-1.853971	-0.153190
0.000167	-0.422140	-10.436086	
0.25000	0.168934	0.030599	-0.153190
0.000167	-0.232830	-9.309440	
0.50000	0.168934	1.915169	-0.153190
0.000167	-0.043520	-10.511714	
0.75000	0.168934	3.799739	-0.153190
0.000167	0.145790	-14.042909	
1.00000	0.168934	5.684309	-0.153190
0.000167	0.335100	-19.903024	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.445148	-17.642922	-0.324408
0.000518	-0.904969	-36.822672	
0.25000	0.445148	-7.016419	-0.324408
0.000518	-0.504071	-21.585868	
0.50000	0.445148	3.610064	-0.324408
0.000518	0.103173	-19.481122	
0.75000	0.445148	14.236587	-0.324408
0.000518	0.297724	-30.508433	
1.00000	0.445148	24.863089	-0.324408
0.000518	0.698622	-54.667801	

ELEM 448 ========== LENGTH = 3.459686

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.151615	-1.017982	-0.095541
9.04E-05	-0.232106	-19.868886	
0.25000	0.151615	0.301024	-0.095541
9.04E-05	-0.149471	-19.558830	
0.50000	0.151615	1.620029	-0.095541
9.04E-05	-0.066836	-20.389610	
0.75000	0.151615	2.939034	-0.095541
9.04E-05	0.015800	-22.361226	
1.00000	0.151615	4.258040	-0.095541
9.04E-05	0.098435	-25.473678	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD > 196

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.439594	-12.981813	-0.159159
0.000270	-0.426550	-54.599682	
0.25000	0.439594	-5.544353	-0.159159
0.000270	-0.236390	-46.558742	
0.50000	0.439594	1.893107	-0.159159
0.000270	-0.151229	-45.008822	
0.75000	0.439594	9.330568	-0.159159
0.000270	-0.013569	-49.862621	
1.00000	0.439594	16.768028	-0.159159
0.000270	0.124091	-61.149239	

ELEM 449 ========== LENGTH = 3.460360

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.164955	-4.279010	0.135911
-9.23E-05	0.167260	-25.481574	
0.25000	0.164955	-2.959747	0.135911
-9.23E-05	0.049685	-22.350486	
0.50000	0.164955	-1.640485	0.135911
-9.23E-05	-0.067789	-20.360678	
0.75000	0.164955	-0.321223	0.135911
-9.23E-05	-0.185464	-19.512151	
1.00000	0.164955	0.998039	0.135911
-9.23E-05	-0.303039	-19.804905	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.479147	-16.930942	0.360819
-0.000286	0.468595	-61.182089	
0.25000	0.479147	-9.492034	0.360819
-0.000286	0.156454	-49.752963	
0.50000	0.479147	-2.053125	0.360819
-0.000286	-0.155687	-44.759163	
0.75000	0.479147	5.385783	0.360819
-0.000286	-0.467829	-46.200688	
1.00000	0.479147	12.824692	0.360819
-0.000286	-0.779970	-54.077537	

ELEM 450 ========== LENGTH = 4.943361

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.208004	-5.719206	0.175455
-0.000172	0.389433	-19.850218	
0.25000	0.208004	-3.834549	0.175455
-0.000172	0.172599	-13.946761	
0.50000	0.208004	-1.949893	0.175455
-0.000172	-0.044235	-10.372437	
0.75000	0.208004	-0.065237	0.175455
-0.000172	-0.261069	-9.127248	
1.00000	0.208004	1.819420	0.175455
-0.000172	-0.477903	-10.211193	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.559513	-25.091164	0.430928
-0.000543	0.960603	-54.195899	
0.25000	0.559513	-14.464174	0.430928
-0.000543	0.428045	-29.753858	
0.50000	0.559513	-3.837183	0.430928
-0.000543	-0.104513	-18.445081	
0.75000	0.559513	6.789808	0.430928
-0.000543	-0.637071	-20.269568	
1.00000	0.559513	17.416799	0.430928
-0.000543	-1.169630	-35.227318	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD > 197

FRAME ELEMENT INTERNAL FORCES

ELEM 451 ========== LENGTH = 4.942856

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.225566	-5.694628	0.236013
-0.000143	0.575829	-10.274557	
0.25000	0.225566	-3.810164	0.236013
-0.000143	0.254184	-4.401954	
0.50000	0.225566	-1.925700	0.236013
-0.000143	-0.007461	-0.858010	
0.75000	0.225566	-0.041236	0.236013
-0.000143	-0.299106	0.357276	
1.00000	0.225566	1.843227	0.236013
-0.000143	-0.590751	-0.756097	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.616197	-25.999949	0.579989
-0.000511	1.413475	-35.382560	
0.25000	0.616197	-15.374044	0.579989
-0.000511	0.696775	-9.819347	
0.50000	0.616197	-4.748139	0.579989
-0.000511	-0.019925	2.613285	
0.75000	0.616197	5.877766	0.579989
-0.000511	-0.736626	1.915337	
1.00000	0.616197	16.503672	0.579989
-0.000511	-1.453326	-11.913192	

ELEM 452 ========== LENGTH = 4.943454

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.234866	-5.826998	0.217726
-8.91E-05	0.561484	-0.825387	
0.25000	0.234866	-3.942307	0.217726
-8.91E-05	0.292405	5.211377	
0.50000	0.234866	-2.057615	0.217726
-8.91E-05	0.023325	8.918919	
0.75000	0.234866	-0.172923	0.217726
-8.91E-05	-0.245754	10.297239	
1.00000	0.234866	1.711769	0.217726
-8.91E-05	-0.514834	9.346337	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.659005	-26.438691	0.538523
-0.000357	1.388566	-12.084062	
0.25000	0.659005	-15.811501	0.538523
-0.000357	0.723025	14.023573	
0.50000	0.659005	-5.184311	0.538523
-0.000357	0.057485	26.997652	
0.75000	0.659005	5.442880	0.538523
-0.000357	-0.608056	26.837874	
1.00000	0.659005	16.070070	0.538523
-0.000357	-1.273597	13.544339	

ELEM 453 ========== LENGTH = 4.943178

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.244063	-4.813471	0.134424
-4.06E-05	0.381409	9.292588	
0.25000	0.244063	-2.928884	0.134424
-4.06E-05	0.215288	14.076569	
0.50000	0.244063	-1.044297	0.134424
-4.06E-05	0.049167	16.515587	
0.75000	0.244063	0.840289	0.134424
-4.06E-05	-0.116954	16.657643	
1.00000	0.244063	2.724876	0.134424
-4.06E-05	-0.283075	14.454737	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD > 198

FRAME ELEMENT INTERNAL FORCES

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.689808	-23.932533	0.329962
-0.000175	0.939375	13.411689	
0.25000	0.689808	-13.351035	0.329962
-0.000175	0.531610	36.421238	
0.50000	0.689808	-2.679337	0.329962
-0.000175	0.123845	46.298495	
0.75000	0.689808	7.947261	0.329962
-0.000175	-0.283919	43.043459	
1.00000	0.689808	18.573858	0.329962
-0.000175	-0.691684	26.656131	

ELEM 454 ========== LENGTH = 4.943033

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.249568	-3.862655	0.012127
-2.73E-06	0.087404	14.432415	
0.25000	0.249568	-1.978123	0.012127
-2.73E-06	0.072418	18.041310	
0.50000	0.249568	-0.093592	0.012127
-2.73E-06	0.057433	19.321379	
0.75000	0.249568	1.790939	0.012127
-2.73E-06	0.042447	18.272624	
1.00000	0.249568	3.675470	0.012127
-2.73E-06	0.027462	14.895044	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.705159	-21.417157	0.020649
-5.42E-06	0.195668	26.602657	
0.25000	0.705159	-10.790872	0.020649
-5.42E-06	0.170151	46.503325	
0.50000	0.705159	-0.164588	0.020649
-5.42E-06	0.144634	53.272475	
0.75000	0.705159	10.461697	0.020649
-5.42E-06	0.119117	46.910106	
1.00000	0.705159	21.087982	0.020649
-5.42E-06	0.093600	27.416219	

ELEM 455 ========== LENGTH = 4.943005

LOAD STEEL ----------

REL DIST	P	V2	V3

T	M2	M3	
0.00000	0.251773	-2.918223	-0.112668
3.66E-05	-0.226575	14.916655	
0.25000	0.251773	-1.033703	-0.112668
3.66E-05	-0.087346	17.358454	
0.50000	0.251773	0.850818	-0.112668
3.66E-05	0.051883	17.471454	
0.75000	0.251773	2.735339	-0.112668
3.66E-05	0.191112	15.255655	
1.00000	0.251773	4.619859	-0.112668
3.66E-05	0.330342	10.711058	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.711597	-18.914764	-0.292589
0.000167	-0.594651	27.475360	
0.25000	0.711597	-8.288539	-0.292589
0.000167	-0.233084	44.283618	
0.50000	0.711597	2.337686	-0.292589
0.000167	0.128483	47.960506	
0.75000	0.711597	12.963911	-0.292589
0.000167	0.490050	38.506022	
1.00000	0.711597	23.590135	-0.292589
0.000167	0.851617	15.920168	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
199

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 456 ========== LENGTH = 4.943104

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251393	-1.766682	-0.202226
8.68E-05	-0.472132	10.765125	
0.25000	0.251393	0.178776	-0.202226
8.68E-05	-0.222226	11.783902	
0.50000	0.251393	2.002434	-0.202226
8.68E-05	0.027680	10.473788	
0.75000	0.251393	3.886993	-0.202226
8.68E-05	0.277587	6.834782	
1.00000	0.251393	5.771551	-0.202226
8.68E-05	0.527493	0.866884	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.705426	-16.164643	-0.510754
0.000352	-1.197499	16.060212	
0.25000	0.705426	-5.538206	-0.510754
0.000352	-0.566321	29.470141	
0.50000	0.705426	5.088231	-0.510754
0.000352	0.064857	29.748175	
0.75000	0.705426	15.714666	-0.510754
0.000352	0.694035	16.894315	
1.00000	0.705426	26.341104	-0.510754
0.000352	1.327213	-9.091439	

ELEM 457 ========== LENGTH = 4.942317

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251482	-1.929900	-0.228678
0.000143	-0.567380	0.938180	
0.25000	0.251482	-0.045641	-0.228678
0.000143	-0.284830	2.158649	
0.50000	0.251482	1.838617	-0.228678
0.000143	-0.002280	1.050967	
0.75000	0.251482	3.722876	-0.228678
0.000143	0.280270	-2.384866	
1.00000	0.251482	5.607134	-0.228678
0.000143	0.562820	-8.148849	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.689219	-16.655222	-0.564400
0.000510	-1.405948	-8.910389	
0.25000	0.689219	-6.030475	-0.564400
0.000510	-0.708587	5.104600	
0.50000	0.689219	4.594271	-0.564400
0.000510	-0.011226	5.991873	
0.75000	0.689219	15.219018	-0.564400
0.000510	0.686135	-6.248572	
1.00000	0.689219	25.843764	-0.564400
0.000510	1.383496	-31.616734	

ELEM 458 ========== LENGTH = 4.943664

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.239546	-1.861054	-0.177082
0.000175	-0.476099	-8.091043	
0.25000	0.239546	0.023717	-0.177082
0.000175	-0.257240	-6.955646	
0.50000	0.239546	1.908489	-0.177082
0.000175	-0.038382	-8.149668	
0.75000	0.239546	3.793261	-0.177082
0.000175	0.180477	-11.673110	
1.00000	0.239546	5.678033	-0.177082
0.000175	0.399336	-17.525971	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
200

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.649825	-17.491752	-0.428320
0.000548	-1.153301	-31.480110	
0.25000	0.649825	-6.864111	-0.428320
0.000548	-0.623933	-16.429211	
0.50000	0.649825	3.763530	-0.428320
0.000548	-0.094565	-14.513183	
0.75000	0.649825	14.391171	-0.428320
0.000548	0.434803	-25.712025	
1.00000	0.649825	25.018812	-0.428320
0.000548	0.964171	-50.085737	

ELEM 459 ========== LENGTH = 3.459749

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.206634	-1.026920	-0.155490
0.000100	-0.331239	-17.478404	
0.25000	0.206634	0.292109	-0.155490
0.000100	-0.196750	-17.160621	
0.50000	0.206634	1.611138	-0.155490
0.000100	-0.062260	-17.983716	
0.75000	0.206634	2.930168	-0.155490
0.000100	0.072229	-19.947689	
1.00000	0.206634	4.249197	-0.155490
0.000100	0.206718	-23.052539	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.597710	-12.879542	-0.379593
0.000301	-0.802511	-49.965974	
0.25000	0.597710	-5.441946	-0.379593
0.000301	-0.474187	-42.042504	
0.50000	0.597710	1.995650	-0.379593
0.000301	-0.145863	-40.552090	
0.75000	0.597710	9.433246	-0.379593
0.000301	0.182461	-45.494729	
1.00000	0.597710	16.870842	-0.379593
0.000301	0.510786	-56.870423	

ELEM 460 ========== LENGTH = 3.460020

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209270	-4.119301	0.061839
-7.92E-05	0.046424	-23.042925	
0.25000	0.209270	-2.800169	0.061839
-7.92E-05	-0.007067	-20.050237	
0.50000	0.209270	-1.481036	0.061839
-7.92E-05	-0.060558	-18.198605	
0.75000	0.209270	-0.161904	0.061839
-7.92E-05	-0.114049	-17.488029	
1.00000	0.209270	1.157229	0.061839
-7.92E-05	-0.167540	-17.918510	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.600781	-16.541472	0.120594
-0.000247	0.067501	-56.843835	
0.25000	0.600781	-9.103295	0.120594
-0.000247	-0.036813	-45.752410	
0.50000	0.600781	-1.665117	0.120594
-0.000247	-0.141127	-41.095045	
0.75000	0.600781	5.773060	0.120594
-0.000247	-0.245442	-42.871740	
1.00000	0.600781	13.211238	0.120594
-0.000247	-0.349756	-51.082496	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
201

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 461 ========== LENGTH = 4.942983

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.245361	-5.503354	0.129001
-0.000156	0.279931	-17.945572	
0.25000	0.245361	-3.618841	0.129001
-0.000156	0.120519	-12.309215	
0.50000	0.245361	-1.734329	0.129001
-0.000156	-0.038893	-9.001636	
0.75000	0.245361	0.150183	0.129001
-0.000156	-0.198305	-8.022835	
1.00000	0.245361	2.034696	0.129001
-0.000156	-0.357717	-9.372813	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.655691	-24.575250	0.295216
-0.000497	0.634037	-51.142536	
0.25000	0.655691	-13.949072	0.295216
-0.000497	0.269226	-27.339403	
0.50000	0.655691	-3.322894	0.295216
-0.000497	-0.095586	-16.667523	
0.75000	0.655691	7.303283	0.295216
-0.000497	-0.460397	-19.126898	
1.00000	0.655691	17.929461	0.295216
-0.000497	-0.825208	-34.717526	

ELEM 462 ========== LENGTH = 4.943754

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.261653	-5.419385	0.182625
-0.000125	0.244801	-19.421141	
0.25000	0.261653	-3.534579	0.182625
-0.000125	0.219089	-13.887866	
0.50000	0.261653	-1.649773	0.182625
-0.000125	-0.006624	-10.684095	
0.75000	0.261653	0.235033	0.182625
-0.000125	-0.232337	0.190170	
1.00000	0.261653	2.119940	0.182625
-0.000125	-0.458050	-1.265069	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.701947	-25.372514	0.436409
-0.000462	1.056441	-34.830798	
0.25000	0.701947	-14.744678	0.436409
-0.000462	0.517067	-10.039606	
0.50000	0.701947	-4.116843	0.436409
-0.000462	-0.022308	1.616235	
0.75000	0.701947	6.510993	0.436409
-0.000462	-0.561682	0.136723	
1.00000	0.701947	17.138829	0.436409
-0.000462	-1.101057	-14.478140	

ELEM 463 ========== LENGTH = 4.942653

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.267156	-5.348801	0.165612
-7.05E-05	0.428695	-1.312972	
0.25000	0.267156	-3.464414	0.165612
-7.05E-05	0.224055	4.132112	
0.50000	0.267156	-1.580028	0.165612
-7.05E-05	0.019415	7.248728	
0.75000	0.267156	0.304359	0.165612
-7.05E-05	-0.185225	8.036876	
1.00000	0.267156	2.188745	0.165612
-7.05E-05	-0.389866	6.496558	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
202

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.729907	-25.272793	0.407124
-0.000309	1.050007	-14.590824	
0.25000	0.729907	-14.647325	0.407124
-0.000309	0.546939	10.073089	
0.50000	0.729907	-4.021856	0.407124
-0.000309	0.043871	21.607499	
0.75000	0.729907	6.603613	0.407124
-0.000309	-0.459197	20.012408	
1.00000	0.729907	17.229082	0.407124
-0.000309	-0.962265	5.287815	

ELEM 464 ========== LENGTH = 4.942678

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.276132	-4.365071	0.093248
-2.48E-05	0.269057	6.456776	
0.25000	0.276132	-2.480675	0.093248
-2.48E-05	0.153833	10.686317	
0.50000	0.276132	-0.596279	0.093248
-2.48E-05	0.038609	12.587366	
0.75000	0.276132	1.288117	0.093248
-2.48E-05	-0.076615	12.159924	
1.00000	0.276132	3.172513	0.093248
-2.48E-05	-0.191839	9.403991	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.756135	-22.944745	0.233072
-0.000134	0.670835	5.189187	
0.25000	0.756135	-12.319222	0.233072
-0.000134	0.382835	26.976493	
0.50000	0.756135	-1.693699	0.233072
-0.000134	0.094835	35.634163	
0.75000	0.756135	8.931824	0.233072
-0.000134	-0.193165	31.162198	
1.00000	0.756135	19.557346	0.233072
-0.000134	-0.481165	13.560597	

ELEM 465 ========== LENGTH = 4.943780

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.283053	-3.440549	-0.006406
8.52E-06	0.024998	9.384531	
0.25000	0.283053	-1.555733	-0.006406
8.52E-06	0.032915	12.472096	
0.50000	0.283053	0.329084	-0.006406
8.52E-06	0.040833	13.230131	
0.75000	0.283053	2.213900	-0.006406
8.52E-06	0.048750	11.658637	
1.00000	0.283053	4.098716	-0.006406
8.52E-06	0.056668	7.757613	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.772302	-20.497087	-0.015865
2.29E-05	0.063376	13.509832	
0.25000	0.772302	-9.869195	-0.015865
2.29E-05	0.082984	32.275361	
0.50000	0.772302	0.758697	-0.015865
2.29E-05	0.102592	37.905398	
0.75000	0.772302	11.386849	-0.015865
2.29E-05	0.122200	30.399945	
1.00000	0.772302	22.014481	-0.015865
2.29E-05	0.141807	9.759001	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
203

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 466 ========== LENGTH = 4.943055

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.288437	-2.498268	-0.096800
3.96E-05	-0.210323	7.780132	
0.25000	0.288437	-0.613728	-0.096800
3.96E-05	-0.090701	9.702978	
0.50000	0.288437	1.270812	-0.096800
3.96E-05	0.028921	9.296977	
0.75000	0.288437	3.155352	-0.096800
3.96E-05	0.148544	6.562131	
1.00000	0.288437	5.039891	-0.096800
3.96E-05	0.268166	1.498439	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.784568	-17.999331	-0.243636
0.000175	-0.529589	9.817529	
0.25000	0.784568	-7.372998	-0.243636
0.000175	-0.228512	25.494631	
0.50000	0.784568	3.253334	-0.243636
0.000175	0.072565	26.040096	
0.75000	0.784568	13.879666	-0.243636
0.000175	0.373642	17.453926	
1.00000	0.784568	24.505999	-0.243636
0.000175	0.674719	-6.263880	

ELEM 467 ========== LENGTH = 4.942457

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.296645	-1.998145	-0.145980
7.83E-05	-0.356857	1.535563	
0.25000	0.296645	-0.113843	-0.145980
7.83E-05	-0.176482	2.840371	
0.50000	0.296645	1.770468	-0.145980
7.83E-05	0.003893	1.816896	
0.75000	0.296645	3.654780	-0.145980
7.83E-05	0.184268	-1.534861	
1.00000	0.296645	5.539092	-0.145980
7.83E-05	0.364643	-7.214900	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.796695	-16.804063	-0.364800
0.000333	-0.893254	-6.170962	
0.25000	0.796695	-6.179017	-0.364800
0.000333	-0.442502	8.028147	
0.50000	0.796695	4.446029	-0.364800
0.000333	0.008251	9.098799	
0.75000	0.796695	15.071075	-0.364800
0.000333	0.459004	-2.959006	
1.00000	0.796695	25.696121	-0.364800
0.000333	0.909756	-28.145268	

ELEM 468 ========== LENGTH = 4.942920

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.320238	-1.803566	-0.133327
0.000123	-0.354839	5.731258	
0.25000	0.320238	0.080922	-0.133327
0.000123	-0.189783	-6.106896	
0.50000	0.320238	1.965410	-0.133327
0.000123	-0.025027	-7.371253	
0.75000	0.320238	3.849899	-0.133327
0.000123	0.139729	-10.964329	
1.00000	0.320238	5.734387	-0.133327
0.000123	0.304485	-16.886124	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
204

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.831757	-16.354529	-0.326197
0.000465	-0.870923	-28.037029	
0.25000	0.831757	-5.728487	-0.326197
0.000465	-0.467831	-14.392706	
0.50000	0.831757	4.897555	-0.326197
0.000465	-0.064740	-13.879302	
0.75000	0.831757	15.523597	-0.326197
0.000465	0.338351	-26.496818	
1.00000	0.831757	26.149640	-0.326197
0.000465	0.741442	-52.245252	

ELEM 469 ========== LENGTH = 4.943568

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.331972	-1.959941	-0.050047
0.000140	-0.180567	-16.862463	
0.25000	0.331972	-0.075206	-0.050047
0.000140	-0.118714	-15.604852	
0.50000	0.331972	1.809530	-0.050047
0.000140	-0.056861	-16.676571	
0.75000	0.331972	3.694265	-0.050047
0.000140	0.004992	-20.077619	
1.00000	0.331972	5.579001	-0.050047
0.000140	0.066844	-25.807997	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.842103	-17.973512	-0.117593
0.000464	-0.427064	-52.193518	
0.25000	0.842103	-7.346076	-0.117593
0.000464	-0.191732	-36.54779	
0.50000	0.842103	3.281360	-0.117593
0.000464	-0.136400	-34.035604	
0.75000	0.842103	13.908796	-0.117593
0.000464	0.008932	-44.658193	
1.00000	0.842103	24.536232	-0.117593
0.000464	0.154264	-68.415146	

ELEM 470 ========== LENGTH = 3.460116

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.293568	-0.668388	0.163675
4.85E-05	0.197291	-25.811535	
0.25000	0.293568	0.650781	0.163675
4.85E-05	0.055708	-25.803920	
0.50000	0.293568	1.969951	0.163675
4.85E-05	-0.085876	-26.937424	
0.75000	0.293568	3.289120	0.163675
4.85E-05	-0.227459	-29.212049	
1.00000	0.293568	4.608289	0.163675
4.85E-05	-0.369042	-32.627792	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.776708	-10.718207	0.392945
0.000180	0.477838	-68.419435	
0.25000	0.776708	-3.279823	0.392945
0.000180	0.137929	-62.365084	
0.50000	0.776708	4.158561	0.392945
0.000180	-0.201979	-62.745151	
0.75000	0.776708	11.596945	0.392945
0.000180	-0.541888	-69.559635	
1.00000	0.776708	19.035329	0.392945
0.000180	-0.881796	-82.808538	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
205

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 471 ========== LENGTH = 4.942629

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.306194	-5.791343	0.257799
-0.000148	0.547671	-32.683459	
0.25000	0.306194	-3.906966	0.257799
-0.000148	0.229120	-26.691566	
0.50000	0.306194	-2.022588	0.257799
-0.000148	-0.089432	-23.028117	
0.75000	0.306194	-0.138211	0.257799
-0.000148	-0.407984	-21.693113	
1.00000	0.306194	1.746166	0.257799
-0.000148	-0.726535	-22.686554	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.805665	-24.904120	0.599981
-0.000469	1.276909	-82.940642	
0.25000	0.805665	-14.278703	0.599981
-0.000469	0.535538	-58.732371	
0.50000	0.805665	-3.653285	0.599981
-0.000469	-0.205834	-47.653475	
0.75000	0.805665	6.972132	0.599981
-0.000469	-0.947205	-49.703953	
1.00000	0.805665	17.597549	0.599981
-0.000469	-1.688577	-64.883806	

ELEM 472 ========== LENGTH = 4.943618

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.381979	-6.591021	0.403822
-0.000231	0.959166	-22.788080	
0.25000	0.381979	-4.706267	0.403822
-0.000231	0.460081	-15.806896	
0.50000	0.381979	-2.821512	0.403822
-0.000231	0.039005	-11.155089	
0.75000	0.381979	-0.936758	0.403822
-0.000231	-0.538090	-8.832657	
1.00000	0.381979	0.947996	0.403822
-0.000231	-1.037176	-8.839601	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.951483	-27.922003	0.945351
-0.000755	2.239609	-65.120619	
0.25000	0.951483	-17.294461	0.945351
-0.000755	1.071246	-37.179007	
0.50000	0.951483	-6.666919	0.945351
-0.000755	-0.097117	-22.372019	
0.75000	0.951483	3.960622	0.945351
-0.000755	-1.265481	-20.699657	
1.00000	0.951483	14.588164	0.945351
-0.000755	-2.433844	-32.161920	

ELEM 473 ========== LENGTH = 4.942653

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.390391	-6.650992	0.439407
-0.000187	1.090501	-8.961564	
0.25000	0.390391	-4.766605	0.439407
-0.000187	0.547541	-1.907412	
0.50000	0.390391	-2.882219	0.439407
-0.000187	0.004582	2.818273	
0.75000	0.390391	-0.997833	0.439407
-0.000187	-0.538378	5.215492	
1.00000	0.390391	0.886554	0.439407
-0.000187	-1.081337	5.284243	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page

< BEFORE COMPOSITE SELF-WEIGHT LOAD >
206

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.980724	-28.065967	1.043400
-0.000659	2.564499	-0.444749	
0.25000	0.980724	-17.440499	1.043400
-0.000659	1.295698	-4.329417	
0.50000	0.980724	-6.815031	1.043400
-0.000659	0.006408	10.656416	
0.75000	0.980724	3.810437	1.043400
-0.000659	-1.282683	12.512749	
1.00000	0.980724	14.435905	1.043400
-0.000659	-2.572174	1.239582	

ELEM 474 ========== LENGTH = 4.942894

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.387923	-6.226458	0.380412
-0.000133	0.986304	5.154043	
0.25000	0.387923	-4.341980	0.380412
-0.000133	0.516220	11.683876	
0.50000	0.387923	-2.457501	0.380412
-0.000133	0.046137	15.885016	
0.75000	0.387923	-0.573023	0.380412
-0.000133	-0.423946	17.757461	
1.00000	0.387923	1.311455	0.380412
-0.000133	-0.894030	17.301212	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.983240	-27.234185	0.912370
-0.000492	2.361882	0.925513	
0.25000	0.983240	-16.608199	0.912370
-0.000492	1.234445	28.014044	
0.50000	0.983240	-5.982213	0.912370
-0.000492	0.107009	41.971795	
0.75000	0.983240	4.643774	0.912370
-0.000492	-1.020428	42.798765	
1.00000	0.983240	15.269760	0.912370
-0.000492	-2.147864	30.494955	

ELEM 475 ========== LENGTH = 4.943165

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.384227	-5.277181	0.242747
-8.28E-05	0.676370	17.200417	
0.25000	0.384227	-3.392600	0.242747
-8.28E-05	0.376386	22.557437	
0.50000	0.384227	-1.508018	0.242747
-8.28E-05	0.076401	25.585507	
0.75000	0.384227	0.376564	0.242747
-8.28E-05	-0.223583	26.284628	
1.00000	0.384227	2.261146	0.242747
-8.28E-05	-0.523567	24.654798	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.970864	-24.963187	0.587782
-0.000310	1.634153	30.249738	
0.25000	0.970864	-14.336617	0.587782
-0.000310	0.907778	54.532917	
0.50000	0.970864	-3.710048	0.587782
-0.000310	0.181402	65.683873	
0.75000	0.970864	6.916522	0.587782
-0.000310	-0.544973	63.702606	
1.00000	0.970864	17.543092	0.587782
-0.000310	-1.271349	48.589116	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
207

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 476 ========== LENGTH = 4.943656

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.371152	-4.448296	0.054507
-2.86E-05	0.227596	24.609691	
0.25000	0.371152	-2.563527	0.054507
-2.86E-05	0.160231	28.942696	
0.50000	0.371152	-0.678758	0.054507
-2.86E-05	0.092865	30.946289	
0.75000	0.371152	1.206010	0.054507
-2.86E-05	0.025500	30.620470	
1.00000	0.371152	3.090779	0.054507
-2.86E-05	-0.041866	27.965239	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.932736	-22.974987	0.137283
-0.000103	0.561825	48.479067	
0.25000	0.932736	-12.347353	0.137283
-0.000103	0.392155	70.306761	
0.50000	0.932736	-1.719739	0.137283
-0.000103	0.222485	78.999625	
0.75000	0.932736	8.907885	0.137283
-0.000103	0.052815	74.557660	
1.00000	0.932736	19.535509	0.137283
-0.000103	-0.116854	56.980866	

ELEM 477 ========== LENGTH = 4.942285

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.343032	-3.619864	-0.154681
3.09E-05	-0.285596	27.986628	
0.25000	0.343032	-1.735618	-0.154681
3.09E-05	-0.094477	31.295167	
0.50000	0.343032	0.148629	-0.154681
3.09E-05	0.096643	32.275586	
0.75000	0.343032	2.032875	-0.154681
3.09E-05	0.287763	30.927885	
1.00000	0.343032	3.917121	-0.154681
3.09E-05	0.478882	27.252063	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.860274	-20.957095	-0.367071
0.000122	-0.674208	57.032397	
0.25000	0.860274	-10.332418	-0.367071
0.000122	-0.220665	76.362608	
0.50000	0.860274	0.292259	-0.367071
0.000122	0.232878	82.565274	
0.75000	0.860274	10.916936	-0.367071
0.000122	0.686420	75.640394	
1.00000	0.860274	21.541613	-0.367071
0.000122	1.139963	55.587970	

ELEM 478 ========== LENGTH = 4.943913

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294852	-2.827721	-0.354742
9.92E-05	-0.789968	27.322536	
0.25000	0.294852	-0.942855	-0.354742
9.92E-05	0.351515	29.552711	
0.50000	0.294852	0.942012	-0.354742
9.92E-05	0.086939	29.653232	
0.75000	0.294852	2.826879	-0.354742
9.92E-05	0.525392	27.324098	
1.00000	0.294852	4.711746	-0.354742
9.92E-05	0.963846	22.665311	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
208

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.737159	-19.107787	-0.852394
0.000373	-1.896270	55.754800	
0.25000	0.737159	-8.479610	-0.852394
0.000373	-0.842730	72.803511	
0.50000	0.737159	2.148566	-0.852394
0.000373	0.210811	76.716027	
0.75000	0.737159	12.776743	-0.852394
0.000373	1.264351	67.492349	
1.00000	0.737159	23.404919	-0.852394
0.000373	2.317892	45.132477	

ELEM 479 ========== LENGTH = 4.942677

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.203027	-2.580639	-0.528340
0.000198	-1.230204	22.803597	
0.25000	0.203027	-0.696244	-0.528340
0.000198	-0.577351	24.828169	
0.50000	0.203027	1.188152	-0.528340
0.000198	0.075503	24.524251	
0.75000	0.203027	3.072548	-0.528340
0.000198	0.728356	21.891843	
1.00000	0.203027	4.956943	-0.528340
0.000198	1.381209	16.930945	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.493628	-18.302511	-1.274532
0.000694	-2.956351	45.469045	
0.25000	0.493628	-7.676991	-1.274532
0.000694	-1.391451	61.519082	
0.50000	0.493628	2.948529	-1.274532
0.000694	0.183450	64.440490	
0.75000	0.493628	13.574049	-1.274532
0.000694	1.758350	54.322269	
1.00000	0.493628	24.199569	-1.274532
0.000694	3.333251	30.894419	

ELEM 480 ========== LENGTH = 4.942797

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.057941	-1.206260	-0.531063
0.000387	-1.364656	17.095390	
0.25000	0.057941	0.678181	-0.531063
0.000387	-0.708422	17.421663	
0.50000	0.057941	2.562623	-0.531063
0.000387	-0.052187	15.419333	
0.75000	0.057941	4.447064	-0.531063
0.000387	0.604047	11.088401	
1.00000	0.057941	6.331505	-0.531063
0.000387	1.260281	4.428866	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.108286	-15.682475	-1.282600
0.001212	-3.293698	31.290695	
0.25000	0.108286	-5.056983	-1.282600
0.001212	-1.708780	44.104384	
0.50000	0.108286	5.569080	-1.282600
0.001212	-0.123872	43.787809	
0.75000	0.108286	16.194857	-1.282600
0.001212	1.461037	30.340969	
1.00000	0.108286	26.820635	-1.282600
0.001212	3.045945	3.763665	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
209

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 481 ========== LENGTH = 1.482588

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.008198	2.233017	-5.436461
0.000689	-3.867893	4.737756	
0.25000	0.008198	2.798254	-5.436461
0.000689	-1.872885	3.805343	
0.50000	0.008198	3.363490	-5.436461
0.000689	0.142122	2.663427	
0.75000	0.008198	3.928727	-5.436461
0.000689	2.157130	1.312009	
1.00000	0.008198	4.493963	-5.436461
0.000689	4.172137	-0.248913	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.002360	-2.927874	-13.111618
0.002077	-9.380891	4.510066	
0.25000	-0.002360	0.259319	-13.111618
0.002077	-4.521110	5.004612	
0.50000	-0.002360	3.446511	-13.111618
0.002077	0.338670	4.317835	
0.75000	-0.002360	6.633704	-13.111618
0.002077	5.198451	2.449734	
1.00000	-0.002360	9.820897	-13.111618
0.002077	10.058231	-0.599689	

ELEM 482 ========== LENGTH = 1.100000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-312.656920	-0.483883	-30.198354
.000000	-33.218189	-0.532271	
0.25000	-312.656920	-0.483883	-30.198354
.000000	-24.913642	-0.399204	
0.50000	-312.656920	-0.483883	-30.198354
.000000	-16.609094	-0.266136	
0.75000	-312.656920	-0.483883	-30.198354
.000000	-8.304547	-0.133068	
1.00000	-312.656920	-0.483883	-30.198354
.000000	-1.75E-11	1.86E-09	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-813.798884	-1.469438	-91.705240
.000000	-100.875764	-1.616382	
0.25000	-813.798884	-1.469438	-91.705240
.000000	-75.656823	-1.212287	
0.50000	-813.798884	-1.469438	-91.705240
.000000	-50.437882	-0.808191	
0.75000	-813.798884	-1.469438	-91.705240
.000000	-25.218941	-0.404096	
1.00000	-813.798884	-1.469438	-91.705240
.000000	1.16E-10	4.47E-09	

ELEM 483 ========== LENGTH = 1.200000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1203.090	0.966056	17.366197
.000000	20.839436	1.159268	
0.25000	-1203.090	0.966056	17.366197
.000000	15.629577	0.869451	
0.50000	-1203.090	0.966056	17.366197
.000000	10.419718	0.579634	
0.75000	-1203.090	0.966056	17.366197
.000000	5.209859	0.289817	
1.00000	-1203.090	0.966056	17.366197
.000000	-1.64E-11	-4.19E-10	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
210

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2644.987	0.252241	4.534383
.000000	5.441259	0.302689	
0.25000	-2644.987	0.252241	4.534383
.000000	4.080944	0.227017	
0.50000	-2644.987	0.252241	4.534383
.000000	2.720630	0.151345	
0.75000	-2644.987	0.252241	4.534383
.000000	1.360315	0.075672	
1.00000	-2644.987	0.252241	4.534383
.000000	5.82E-12	3.73E-10	

ELEM 484 ========== LENGTH = 1.200000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1157.255	0.336678	17.214924
.000000	20.657939	0.404013	
0.25000	-1157.255	0.336678	17.214924
.000000	15.493431	0.303010	
0.50000	-1157.255	0.336678	17.214924
.000000	10.328954	0.202007	
0.75000	-1157.255	0.336678	17.214924
.000000	5.164477	0.101003	
1.00000	-1157.255	0.336678	17.214924
.000000	-5.82E-12	-1.86E-10	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2532.230	3.010698	1.642884
.000000	1.971461	3.612837	
0.25000	-2532.230	3.010698	1.642884
.000000	1.478596	2.709628	
0.50000	-2532.230	3.010698	1.642884
.000000	0.985731	1.806419	
0.75000	-2532.230	3.010698	1.642884
.000000	0.492865	0.903209	
1.00000	-2532.230	3.010698	1.642884
.000000	5.64E-12	-3.03E-10	

ELEM 485 ========== LENGTH = 1.200000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1094.903	0.056526	15.798572
.000000	18.958286	0.067832	
0.25000	-1094.903	0.056526	15.798572
.000000	14.218715	0.050874	
0.50000	-1094.903	0.056526	15.798572
.000000	9.479143	0.033916	
0.75000	-1094.903	0.056526	15.798572
.000000	4.739572	0.016958	
1.00000	-1094.903	0.056526	15.798572
.000000	-1.53E-11	-9.31E-11	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2425.408	-0.003432	-0.959107
.000000	-1.150928	-0.004118	
0.25000	-2425.408	-0.003432	-0.959107
.000000	-0.863196	-0.003088	
0.50000	-2425.408	-0.003432	-0.959107
.000000	-0.575464	-0.002059	
0.75000	-2425.408	-0.003432	-0.959107
.000000	-0.287732	-0.001029	
1.00000	-2425.408	-0.003432	-0.959107
.000000	5.09E-12	1.12E-09	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
211

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 486 ========== LENGTH = 1.200000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1297.093	1.672962	47.883398
.000000	57.460078	2.007554	
0.25000	-1297.093	1.672962	47.883398
.000000	43.095058	1.505666	
0.50000	-1297.093	1.672962	47.883398
.000000	28.730039	1.003777	
0.75000	-1297.093	1.672962	47.883398
.000000	14.365019	0.501889	
1.00000	-1297.093	1.672962	47.883398
.000000	-8.15E-11	2.79E-10	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2910.075	2.522795	72.207272
.000000	86.648727	3.027354	
0.25000	-2910.075	2.522795	72.207272
.000000	64.986545	2.270516	
0.50000	-2910.075	2.522795	72.207272
.000000	43.324363	1.513677	
0.75000	-2910.075	2.522795	72.207272
.000000	21.662182	0.756839	
1.00000	-2910.075	2.522795	72.207272
.000000	-6.98E-11	-1.30E-09	

ELEM 487 ========== LENGTH = 1.100000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-381.611506	0.488166	-49.590303
1.82E-12	-54.549333	0.536982	
0.25000	-381.611506	0.488166	-49.590303
1.82E-12	-40.912000	0.402737	
0.50000	-381.611506	0.488166	-49.590303
1.82E-12	-27.274667	0.268491	
0.75000	-381.611506	0.488166	-49.590303
1.82E-12	-13.637333	0.134246	
1.00000	-381.611506	0.488166	-49.590303
1.82E-12	1.40E-10	2.24E-09	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-984.969906	1.463484	-148.667945
.000000	-163.534739	1.609832	
0.25000	-984.969906	1.463484	-148.667945
.000000	-122.651054	1.207374	
0.50000	-984.969906	1.463484	-148.667945
.000000	-81.767370	0.804916	
0.75000	-984.969906	1.463484	-148.667945
.000000	-40.883685	0.402458	
1.00000	-984.969906	1.463484	-148.667945
.000000	5.59E-10	1.12E-08	

ELEM 488 ========== LENGTH = 1.100000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-381.286269	2.251963	28.878079
.000000	31.765887	2.477159	
0.25000	-381.286269	2.251963	28.878079
.000000	23.824415	1.857869	
0.50000	-381.286269	2.251963	28.878079
.000000	15.882944	1.238579	
0.75000	-381.286269	2.251963	28.878079
.000000	7.941472	0.619290	
1.00000	-381.286269	2.251963	28.878079
.000000	3.22E-10	-4.10E-09	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
212

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-915.174255	6.901306	88.499005
.000000	97.348906	7.591436	
0.25000	-915.174255	6.901306	88.499005
.000000	73.011680	5.693577	
0.50000	-915.174255	6.901306	88.499005
.000000	48.674453	3.795718	
0.75000	-915.174255	6.901306	88.499005
.000000	24.337227	1.897859	
1.00000	-915.174255	6.901306	88.499005
.000000	2.12E-10	-2.61E-09	

ELEM 489 ========== LENGTH = 1.200000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1369.687	-0.882433	-15.862950
.000000	-19.035540	-1.058920	
0.25000	-1369.687	-0.882433	-15.862950
.000000	-14.276655	-0.794190	
0.50000	-1369.687	-0.882433	-15.862950
.000000	-9.517770	-0.529460	
0.75000	-1369.687	-0.882433	-15.862950
.000000	-4.758885	-0.264730	
1.00000	-1369.687	-0.882433	-15.862950
.000000	-4.36E-12	-1.86E-10	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2914.275	-0.052491	-0.943597
.000000	-1.132316	-0.062989	
0.25000	-2914.275	-0.052491	-0.943597
.000000	-0.849237	-0.047242	
0.50000	-2914.275	-0.052491	-0.943597
.000000	-0.566158	-0.031495	
0.75000	-2914.275	-0.052491	-0.943597
.000000	-0.283079	-0.015747	
1.00000	-2914.275	-0.052491	-0.943597
.000000	-5.82E-11	3.73E-10	

ELEM 490 ========== LENGTH = 1.200000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1331.808	-0.376194	-16.948990
.000000	-20.338788	-0.451433	
0.25000	-1331.808	-0.376194	-16.948990
.000000	-15.254091	-0.338575	
0.50000	-1331.808	-0.376194	-16.948990
.000000	-10.169394	-0.225717	
0.75000	-1331.808	-0.376194	-16.948990
.000000	-5.084697	-0.112858	
1.00000	-1331.808	-0.376194	-16.948990
.000000	2.27E-13	2.91E-11	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2811.680	-0.294525	-1.112014
.000000	-1.334417	-0.353430	
0.25000	-2811.680	-0.294525	-1.112014
.000000	-1.000813	-0.265073	
0.50000	-2811.680	-0.294525	-1.112014
.000000	-0.667209	-0.176715	
0.75000	-2811.680	-0.294525	-1.112014
.000000	-0.333604	-0.088358	
1.00000	-2811.680	-0.294525	-1.112014
.000000	9.08E-14	-2.79E-10	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1501.OUT

Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
213

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 491 ========== LENGTH = 1.200000

LOAD STEEL ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1268.722	-0.065534	-18.316190
.000000	-21.979429	-0.078641	
0.25000	-1268.722	-0.065534	-18.316190
.000000	-16.484571	-0.058981	
0.50000	-1268.722	-0.065534	-18.316190
.000000	-10.989714	-0.039321	
0.75000	-1268.722	-0.065534	-18.316190
.000000	-5.494857	-0.019660	
1.00000	-1268.722	-0.065534	-18.316190
.000000	2.91E-12	1.86E-10	

LOAD CONC ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2703.897	-0.017134	-4.788752
.000000	-5.746503	-0.020561	
0.25000	-2703.897	-0.017134	-4.788752
.000000	-4.309877	-0.015420	
0.50000	-2703.897	-0.017134	-4.788752

```
   .000000    -2.873251    -0.010280
0.75000    -2703.897    -0.017134    -4.788752
   .000000    -1.436626    -0.005140
1.00000    -2703.897    -0.017134    -4.788752
   .000000     2.91E-12     9.31E-10

ELEM       492 ================== LENGTH
=     1.200000

LOAD    STEEL --------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000    -1457.375    0.963831   -42.968260
   .000000   -51.561912    1.156598
0.25000    -1457.375    0.963831   -42.968260
   .000000   -38.671434    0.867448
0.50000    -1457.375    0.963831   -42.968260
   .000000   -25.780956    0.578299
0.75000    -1457.375    0.963831   -42.968260
   .000000   -12.890478    0.289149
1.00000    -1457.375    0.963831   -42.968260
   .000000     1.45E-12    -1.86E-10

LOAD    CONC ---------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000    -3159.600    1.359777   -60.619804
   .000000   -72.743764    1.631733
0.25000    -3159.600    1.359777   -60.619804
   .000000   -54.557823    1.223800
0.50000    -3159.600    1.359777   -60.619804
   .000000   -36.371882    0.815866
0.75000    -3159.600    1.359777   -60.619804
   .000000   -18.185941    0.407933
1.00000    -3159.600    1.359777   -60.619804
   .000000    -4.08E-11    -7.45E-10

ELEM       493 ================== LENGTH
=     1.100000

LOAD    STEEL --------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000  -462.610685   -2.250445    46.664686
-3.64E-12    51.331154   -2.475490
0.25000  -462.610685   -2.250445    46.664686
-3.64E-12    38.498366   -1.856617
0.50000  -462.610685   -2.250445    46.664686
-3.64E-12    25.665577   -1.237745
0.75000  -462.610685   -2.250445    46.664686
-3.64E-12    12.832789   -0.618872
1.00000  -462.610685   -2.250445    46.664686
-3.64E-12     1.51E-10    3.73E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                      Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                       214

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD    CONC ---------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000    -1092.600   -6.834120    141.710649
-1.46E-11    155.881714   -7.517532
0.25000    -1092.600   -6.834120    141.710649
-1.46E-11    116.911285   -5.638149
0.50000    -1092.600   -6.834120    141.710649
-1.46E-11     77.940857   -3.758766
0.75000    -1092.600   -6.834120    141.710649
-1.46E-11     38.970428   -1.879383
1.00000    -1092.600   -6.834120    141.710649
-1.46E-11    -5.47E-10    3.73E-09

ELEM       494 ================== LENGTH
=     1.100000

LOAD    STEEL --------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000  -290.482557    .000000    2.91E-10
   .000000    2.91E-10    .000000
0.25000  -290.482557    .000000    2.91E-10
   .000000    2.11E-10    .000000
0.50000  -290.482557    .000000    2.91E-10
   .000000    1.31E-10    .000000
0.75000  -290.482557    .000000    2.91E-10
   .000000    5.09E-11    .000000
1.00000  -290.482557    .000000    2.91E-10
   .000000   -2.91E-11    .000000

LOAD    CONC ---------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000  -693.539216    3.73E-09    6.98E-10
   .000000    5.82E-10    3.73E-09
0.25000  -693.539216    3.73E-09    6.98E-10
   .000000    2.70E-09    3.73E-09
0.50000  -693.539216    3.73E-09    6.98E-10
   .000000    1.98E-10    1.68E-09
0.75000  -693.539216    3.73E-09    6.98E-10
   .000000    5.82E-12    6.52E-10
1.00000  -693.539216    3.73E-09    6.98E-10
   .000000    -1.86E-10   -3.73E-10

ELEM       495 ================== LENGTH
=     1.200000

LOAD    STEEL --------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -1201.622    2.33E-10    1.16E-10
   .000000    7.28E-11    .000000
0.25000   -1201.622    2.33E-10    1.16E-10
   .000000    3.78E-11   -6.98E-11
0.50000   -1201.622    2.33E-10    1.16E-10
   .000000    2.91E-12   -1.40E-10
0.75000   -1201.622    2.33E-10    1.16E-10
   .000000   -3.20E-11   -2.10E-10
1.00000   -1201.622    2.33E-10    1.16E-10
   .000000   -6.69E-11   -2.79E-10

LOAD    CONC ---------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -2458.244    9.31E-10    5.82E-11
   .000000    5.82E-11    .000000
0.25000   -2458.244    9.31E-10    5.82E-11
   .000000    4.07E-11   -2.79E-10
0.50000   -2458.244    9.31E-10    5.82E-11
   .000000    2.33E-11   -5.59E-10
0.75000   -2458.244    9.31E-10    5.82E-11
   .000000    5.82E-12   -8.38E-10
1.00000   -2458.244    9.31E-10    5.82E-11
   .000000   -1.16E-11   -1.12E-09
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                      Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                       215

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       496 ================== LENGTH
=     1.200000

LOAD    STEEL --------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -1157.960   -2.677692    0.079191
   .000000    0.095030   -3.213231
0.25000   -1157.960   -2.677692    0.079191
   .000000    0.071272   -2.409923
0.50000   -1157.960   -2.677692    0.079191
   .000000    0.047515   -1.606615
0.75000   -1157.960   -2.677692    0.079191
   .000000    0.023757   -0.803308
1.00000   -1157.960   -2.677692    0.079191
   .000000     5.82E-11    -1.75E-11

LOAD    CONC ---------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -2351.176   -6.839161    0.202265
   .000000    0.162718   -8.239693
0.25000   -2351.176   -6.839161    0.202265
   .000000    0.182038   -6.155245
0.50000   -2351.176   -6.839161    0.202265
   .000000    0.121359   -4.103496
0.75000   -2351.176   -6.839161    0.202265
   .000000    0.060679   -2.051748
1.00000   -2351.176   -6.839161    0.202265
   .000000     1.98E-10    -4.42E-10

ELEM       497 ================== LENGTH
=     1.200000

LOAD    STEEL --------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -1094.882    .000000   -2.91E-11
   .000000    .000000    .000000
0.25000   -1094.882    .000000   -2.91E-11
   .000000    8.73E-12    .000000
0.50000   -1094.882    .000000   -2.91E-11
   .000000    1.75E-11    .000000
0.75000   -1094.882    .000000   -2.91E-11
   .000000    2.62E-11    .000000
1.00000   -1094.882    .000000   -2.91E-11
   .000000    3.49E-11    .000000

LOAD    CONC ---------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -2244.070    1.86E-09    2.33E-10
   .000000    1.16E-10    .000000
0.25000   -2244.070    1.86E-09    2.33E-10
   .000000    4.66E-11   -5.59E-10
0.50000   -2244.070    1.86E-09    2.33E-10
   .000000   -2.33E-11   -1.12E-09
0.75000   -2244.070    1.86E-09    2.33E-10
   .000000   -9.31E-11   -1.68E-09
1.00000   -2244.070    1.86E-09    2.33E-10
   .000000   -1.63E-10   -2.24E-09

ELEM       498 ================== LENGTH
=     1.200000

LOAD    STEEL --------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -1299.680   -9.31E-10    5.82E-11
   .000000    .000000   -9.31E-10
0.25000   -1299.680   -9.31E-10    5.82E-11
   .000000   -1.75E-11   -6.52E-10
0.50000   -1299.680   -9.31E-10    5.82E-11
   .000000   -3.49E-11   -3.73E-10
0.75000   -1299.680   -9.31E-10    5.82E-11
   .000000   -5.24E-11   -9.31E-11
1.00000   -1299.680   -9.31E-10    5.82E-11
   .000000   -6.98E-11    1.86E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1501.OUT

                                      Page
< BEFORE COMPOSITE SELF-WEIGHT LOAD >
                                       216

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD    CONC ---------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -2720.252    .000000   -2.33E-10
   .000000   -5.12E-10    .000000
0.25000   -2720.252    .000000   -2.33E-10
   .000000   -4.66E-11    .000000
0.50000   -2720.252    .000000   -2.33E-10
   .000000    2.33E-11    .000000
0.75000   -2720.252    .000000   -2.33E-10
   .000000    9.31E-11    .000000
1.00000   -2720.252    .000000   -2.33E-10
   .000000    1.63E-10    .000000

ELEM       499 ================== LENGTH
=     1.100000

LOAD    STEEL --------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000   -345.717868   -7.45E-09   -5.82E-10
   .000000   -6.11E-10   -3.73E-09
0.25000   -345.717868   -7.45E-09   -5.82E-10
   .000000   -2.70E-09   -3.73E-09
0.50000   -345.717868   -7.45E-09   -5.82E-10
   .000000   -2.91E-10    3.73E-10
0.75000   -345.717868   -7.45E-09   -5.82E-10
   .000000   -1.31E-10    2.42E-09
1.00000   -345.717868   -7.45E-09   -5.82E-10
   .000000    2.91E-11    4.47E-09

LOAD    CONC ---------------------

REL DIST           P           V2          V3
       T          M2          M3
0.00000  -818.605960   -1.49E-08   -1.63E-09
   .000000    1.28E-09   -7.45E-09
0.25000  -818.605960   -1.49E-08   -1.63E-09
   .000000   -8.32E-10   -3.35E-09
0.50000  -818.605960   -1.49E-08   -1.63E-09
   .000000   -3.84E-10    7.45E-10
0.75000  -818.605960   -1.49E-08   -1.63E-09
   .000000    6.40E-11    4.84E-09
1.00000  -818.605960   -1.49E-08   -1.63E-09
   .000000    5.12E-10    8.94E-09

< AFTER COMPOSITE SELF-WEIGHT LOAD >
                                         1

D I S P L A C E M E N T   D E G R E E S
O F   F R E E D O M

        (A) = Active DOF, equilibrium equation
        (-)  =  Restrained  DOF,  reaction
computed
        (+) = Constrained DOF
        (>) = External substructure DOF
        ( ) = Null DOF

 JOINTS          U1  U2  U3  R1  R2  R3
     1 TO    270   A   A   A   A   A   A
   271 TO    272   A   -   -   A   A   A
   273       -   -   -   A   A   A
   274 TO    278   A   -   -   A   A   A
   279       -   -   -   A   A   A
   280 TO    282   A   -   -   A   A   A
   283 TO    284   A   A   -   A   A   A
   285       -   A   -   A   A   A
   286 TO    288   A   A   -   A   A   A
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                      Page
< AFTER COMPOSITE SELF-WEIGHT LOAD >
                                         2

T O T A L   A S S E M B L E D   J O I N T
M A S S E S

 IN GLOBAL COORDINATES

          UX          UY          UZ
      RX          RY          RZ

   TOTAL    .000000    .000000    .000000
.000000    .000000    .000000

T O T A L   A C C E L E R A T E D   M A S
S   A N D   L O C A T I O N

 TOTAL MASS ACTIVATED BY ACCELERATION
LOADS, IN GLOBAL COORDINATES

          UX          UY          UZ
MASS    .000000    .000000    .000000
X-LOC   .000000    .000000    .000000
Y-LOC   .000000    .000000    .000000
Z-LOC   .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                      Page
< AFTER COMPOSITE SELF-WEIGHT LOAD >
                                         3

J O I N T   D I S P L A C E M E N T S

 TRANSLATIONS AND ROTATIONS, IN LOCAL
COORDINATES

 LOAD    AFTER --------------------

  JOINT          U1          U2          U3
      R1          R2          R3
     1    4.05E-05    6.25E-05   -1.58E-07
-6.28E-05    0.000405   -2.34E-06
     2    4.15E-05    5.26E-05   -0.001772
-7.49E-05    0.000360   -1.95E-06
     3    4.22E-05    4.48E-05   -0.003345
-7.81E-05    0.000251   -1.21E-06
     4    4.24E-05    4.00E-05   -0.004305
-7.20E-05    0.000115   -7.57E-07
     5    4.25E-05    3.65E-05   -0.004552
-5.97E-05   -2.99E-05   -6.46E-07
     6    4.25E-05    3.33E-05   -0.004098
-4.46E-05   -0.000159   -6.49E-07
     7    4.25E-05    2.99E-05   -0.003092
-2.90E-05   -0.000244   -7.09E-07
     8    4.26E-05    2.62E-05   -0.001818
-1.46E-05   -0.000261   -7.70E-07
     9    4.27E-05    2.23E-05   -0.000648
-5.82E-06   -0.000198   -7.75E-07
    10    4.29E-05    1.86E-05   -5.38E-07
-1.07E-05   -5.03E-05   -7.13E-07
    11    4.30E-05    1.62E-05   -3.93E-05
-2.32E-05    6.59E-05   -6.42E-07
    12    4.30E-05    1.32E-05   -0.000648
-4.45E-05    0.000163   -5.55E-07
    13    4.30E-05    1.07E-05   -0.001564
-5.98E-05    0.000186   -4.55E-07
    14    4.29E-05    8.72E-06   -0.002431
-6.63E-05    0.000144   -2.99E-07
    15    4.27E-05    7.74E-06   -0.002955
-6.52E-05    5.37E-05   -7.59E-08
    16    4.24E-05    7.95E-06   -0.002977
-5.92E-05   -5.23E-05    1.65E-07
    17    4.20E-05    9.27E-06   -0.002489
-4.99E-05   -0.000144    3.53E-07
    18    4.17E-05    1.13E-05   -0.001642
-3.84E-05    0.000189    4.39E-07
    19    4.14E-05    1.35E-05   -0.000723
-2.53E-05   -0.000170    4.37E-07
    20    4.11E-05    1.57E-05   -8.21E-05
-1.47E-05   -7.59E-05    4.31E-07
    21    4.10E-05    1.72E-05   -5.22E-07
-1.44E-05    3.42E-05    4.75E-07
    22    4.08E-05    1.90E-05   -0.000323
-2.14E-05    0.000143    5.04E-07
    23    4.05E-05    2.13E-05   -0.001300
-3.79E-05    0.000234    4.28E-07
    24    4.02E-05    2.31E-05   -0.002533
-5.24E-05    0.000247    3.01E-07
    25    3.99E-05    2.43E-05   -0.003654
-6.15E-05    0.000189    2.06E-07
    26    3.95E-05    2.52E-05   -0.004327
-6.54E-05    7.43E-05    1.61E-07
    27    3.91E-05    2.59E-05   -0.004368
-6.51E-05   -5.86E-05    1.20E-07
    28    3.87E-05    2.63E-05   -0.003766
-6.05E-05   -0.000178    1.61E-08
    29    3.84E-05    2.59E-05   -0.002684
-5.11E-05   -0.000243   -1.92E-07
    30    3.81E-05    2.43E-05   -0.001446
-3.69E-05   -0.000241   -4.83E-07
    31    3.78E-05    2.12E-05   -0.000405
-2.10E-05   -0.000163   -7.72E-07
    32    3.76E-05    1.82E-05   -5.03E-07
-1.48E-05   -6.25E-05   -9.24E-07
    33    3.74E-05    1.47E-05    3.20E-05
-1.59E-05    3.90E-05   -1.05E-06
    34    3.70E-05    9.05E-06   -0.000402
-2.71E-05    0.000124   -1.22E-06
    35    3.65E-05    4.68E-06   -0.001083
-4.00E-05    0.000141   -1.30E-06
    36    3.60E-05   -3.66E-06   -0.001694
-5.10E-05    9.81E-05   -1.20E-06
    37    3.54E-05   -8.99E-06   -0.001967
-5.92E-05    1.27E-05   -9.10E-07
    38    3.49E-05   -1.25E-05   -0.001783
-6.37E-05   -7.16E-05   -7.72E-07
    39    3.45E-05   -1.39E-05   -0.001195
-6.30E-05   -0.000144   -6.94E-08
    40    3.42E-05   -1.33E-05   -0.000413
-5.46E-05   -0.000152    2.64E-07
    41    3.41E-05   -1.13E-05    0.000243
-3.77E-05   -9.22E-05    5.21E-07
    42    3.41E-05   -7.78E-06    0.000397
-1.54E-05    4.68E-05    9.46E-07
    43    3.42E-05   -3.46E-06   -5.84E-07
-2.70E-06    0.000188    1.61E-06
    44    3.47E-05    6.96E-06   -0.001426
 4.35E-06    0.000369    2.42E-06
    45    3.53E-05    1.94E-05   -0.003513
-3.11E-06    0.000454    2.53E-06
    46    3.58E-05    3.17E-05   -0.005770
-1.73E-05    0.000441    2.38E-06
    47    3.63E-05    4.30E-05   -0.007733
-3.45E-05    0.000341    2.17E-06
    48    3.66E-05    5.32E-05   -0.009017
-5.37E-05    0.000176    1.96E-06
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                      Page
< AFTER COMPOSITE SELF-WEIGHT LOAD >
                                         4

J O I N T   D I S P L A C E M E N T S

 TRANSLATIONS AND ROTATIONS, IN LOCAL
COORDINATES

  JOINT          U1          U2          U3
      R1          R2          R3
    49    3.68E-05    6.22E-05   -0.009368
-7.37E-05   -2.52E-05    1.65E-06
    50    3.70E-05    6.98E-05   -0.008675
-9.22E-05   -0.000236    1.38E-06
    51    3.71E-05    7.64E-05   -0.006960
-0.000106   -0.000429    1.31E-06
    52    3.73E-05    8.36E-05   -0.004354
-0.000110   -0.000593    1.61E-06
    53    3.79E-05    9.29E-05   -0.001059
-0.000100   -0.000696    2.10E-06
    54    3.82E-05    9.61E-05   -1.86E-07
-9.46E-05   -0.000704    2.16E-06   -8.28E-08
    55    3.70E-05    3.81E-05
-6.25E-05    0.000391    2.65E-07   -0.001704
    56    3.70E-05    3.87E-05
-4.24E-05    0.000354   -6.13E-08   -0.003240
    57    3.72E-05    3.70E-05
-1.58E-05    0.000256   -5.76E-07   -0.004189
    58    3.77E-05    3.35E-05
 8.42E-06    0.000124   -7.91E-07   -0.004431
    59    3.82E-05    2.95E-05
 2.70E-05   -2.18E-05   -8.06E-07   -0.003972
    60    3.87E-05    2.57E-05
 3.68E-05   -0.000153   -7.23E-07   -0.002967
    61    3.90E-05    2.25E-05
 3.57E-05   -0.000237   -5.84E-07   -0.001718
    62    3.93E-05    2.00E-05
 2.47E-05   -0.000251   -4.68E-07
    63    3.96E-05    1.77E-05   -0.000605
 7.83E-06   -0.000185   -4.94E-07
    64    3.99E-05    1.50E-05   -3.26E-07
-7.81E-06   -5.04E-05   -6.55E-07
    65    4.01E-05    1.25E-05   -1.56E-05
-1.35E-05    5.43E-05   -7.83E-07
    66    4.04E-05    8.39E-06   -0.000571
-1.01E-05    0.000158   -8.12E-07
    67    4.07E-05    4.75E-06   -0.001460
 1.33E-06    0.000189   -6.21E-07
    68    4.10E-05    2.34E-06   -0.002326
 1.56E-05    0.000151   -3.40E-07
    69    4.11E-05    1.32E-06   -0.002857
 2.78E-05    6.02E-05   -7.48E-08
    70    4.11E-05    1.55E-06   -0.002878
 3.37E-05   -4.84E-05    1.63E-07
    71    4.11E-05    2.97E-06   -0.002384
 3.17E-05   -0.000142    4.08E-07
    72    4.10E-05    5.63E-06   -0.001540
 2.19E-05   -0.000185    6.52E-07
    73    4.09E-05    9.32E-06   -0.000649
 7.41E-06   -0.000161    7.96E-07
    74    4.08E-05    1.32E-05   -6.00E-05
-6.77E-06   -6.57E-05    6.91E-07
    75    4.08E-05    1.52E-05   -3.03E-07
-1.26E-05    3.40E-05    4.51E-07
    76    4.08E-05    1.63E-05   -0.000298
-1.30E-05    0.000133    1.97E-07
    77    4.08E-05    1.67E-05   -0.001218
-4.84E-06    0.000226    2.30E-08
    78    4.08E-05    1.68E-05   -0.002419
 7.87E-06    0.000246    1.52E-08
    79    4.08E-05    1.71E-05   -0.003534
 2.03E-05    0.000191    1.19E-07
    80    4.09E-05    1.78E-05   -0.004211
 2.79E-05    7.58E-05    1.43E-07
    81    4.09E-05    1.85E-05   -0.004252
 2.83E-05   -5.97E-05    1.19E-07
    82    4.09E-05    1.90E-05   -0.003644
 2.13E-05   -0.000180    8.71E-08
    83    4.10E-05    1.94E-05   -0.002568
 9.19E-06   -0.000242    5.06E-08
    84    4.10E-05    1.94E-05   -0.001361
-3.75E-06   -0.000233   -8.29E-08
    85    4.10E-05    1.59E-05   -0.000379
-1.26E-05   -0.000152   -4.58E-07
    86    4.10E-05    1.59E-05   -2.84E-07
-1.29E-05   -6.20E-05   -8.76E-07
    87    4.09E-05    1.22E-05    5.20E-05
-7.84E-06    2.92E-05   -1.27E-06
    88    4.08E-05    5.02E-06   -0.000333
 5.79E-06    0.000116   -1.54E-06
    89    4.06E-05   -2.59E-06   -0.000990
 2.04E-05    0.000137   -1.48E-06
    90    4.04E-05   -9.40E-06   -0.001602
 3.12E-05    9.69E-05   -1.24E-06
    91    4.02E-05   -1.48E-05   -0.001883
 3.46E-05    9.58E-06   -9.23E-07
    92    4.01E-05   -1.84E-05   -0.001700
 3.01E-05   -8.48E-05   -5.28E-07
    93    4.00E-05   -1.98E-05   -0.001104
 1.93E-05   -0.000151   -1.47E-08
    94    4.02E-05   -1.84E-05   -0.000320
 6.59E-06   -0.000156    6.18E-07
    95    4.05E-05   -1.37E-05    0.000314
-3.02E-06   -8.72E-05    1.26E-06
    96    4.11E-05   -6.26E-06    0.000419
-3.96E-06    5.65E-05    1.66E-06
    97    4.15E-05   -5.51E-07   -3.69E-07
 3.91E-06    0.000189    1.58E-06
    98    4.22E-05    6.69E-06   -0.001381
 2.17E-05    0.000356    1.47E-06
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                      Page
< AFTER COMPOSITE SELF-WEIGHT LOAD >
                                         5

J O I N T   D I S P L A C E M E N T S

 TRANSLATIONS AND ROTATIONS, IN LOCAL
COORDINATES

  JOINT          U1          U2          U3
      R1          R2          R3
    99    4.29E-05    1.45E-05   -0.003410
 4.17E-05    0.000444    1.76E-06
   100    4.39E-05    2.40E-05   -0.005644
 5.59E-05    0.000435    2.08E-06
   101    4.50E-05    3.46E-05   -0.007610
 5.96E-05    0.000336    2.42E-06
   102    4.61E-05    4.54E-05   -0.008904
 5.14E-05    0.000169    2.12E-06
   103    4.73E-05    5.52E-05   -0.009264
 3.27E-05   -3.55E-05    1.86E-06
   104    4.83E-05    6.36E-05   -0.008573
 5.78E-06   -0.000248    1.51E-06
   105    4.91E-05    6.99E-05   -0.006862
-2.61E-05   -0.000439    1.03E-06
   106    4.97E-05    7.34E-05   -0.004274
-6.09E-05   -0.000596    2.84E-07
   107    4.97E-05    7.24E-05   -0.001035
-9.37E-05   -0.000685   -7.44E-07
   108    4.96E-05    7.11E-05   -1.07E-07
-0.000100   -0.000690   -1.82E-06
   109    3.68E-05    4.55E-05   -1.96E-07
 2.87E-06    0.000458    1.84E-06
   110    3.59E-05    5.32E-05   -0.001939
 4.03E-05    0.000413    1.60E-06
   111    3.52E-05    5.95E-05   -0.003654
 8.61E-05    0.000297    9.25E-07
   112    3.51E-05    6.19E-05   -0.004699
 0.000123    0.000150    5.47E-08
   113    3.55E-05    6.01E-05   -0.004968
 0.000147   -9.68E-06   -7.88E-07
   114    3.62E-05    5.45E-05   -0.004477
 0.000157   -0.000154   -1.47E-06
   115    3.72E-05    4.62E-05   -0.003382
 0.000149   -0.000302    1.68E-06
   116    3.82E-05    3.67E-05   -0.001985
 0.000126   -0.000278   -1.90E-06
   117    3.90E-05    2.84E-05   -0.000698
 9.53E-05   -0.000211   -1.43E-06
   118    3.95E-05    2.33E-05   -6.88E-07
 6.97E-05   -4.20E-05   -5.95E-07
   119    3.96E-05    2.24E-05   -7.89E-05
 6.53E-05    9.08E-05    4.37E-08
   120    3.95E-05    2.44E-05   -0.000813
 8.30E-05    0.000204    7.00E-07
   121    3.93E-05    2.85E-05   -0.001874
 0.000110    0.000228    9.00E-07
   122    3.91E-05    3.26E-05   -0.002861
 0.000137    0.000178    7.09E-07
   123    3.91E-05    3.51E-05   -0.003450
 0.000155    7.36E-05    2.79E-07
   124    3.92E-05    3.52E-05   -0.003469
 0.000161   -4.83E-05   -2.29E-07
   125    3.95E-05    3.30E-05   -0.002914
 0.000154   -0.000156    1.09E-07
   126    3.98E-05    2.90E-05   -0.001946
 0.000133   -0.000213   -8.95E-07
   127    4.00E-05    2.48E-05   -0.000882
 0.000102   -0.000197   -7.48E-07
   128    4.01E-05    2.24E-05   -0.000118
 7.17E-05   -9.22E-05   -1.66E-07
   129    4.01E-05    2.28E-05   -6.72E-07
 6.06E-05    3.58E-05    4.20E-07
   130    4.02E-05    2.53E-05   -0.000352
 6.38E-05    0.000164    9.94E-07
   131    4.02E-05    3.16E-05   -0.001443
 8.76E-05    0.000267    1.52E-06
   132    4.03E-05    3.94E-05   -0.002813
 0.000117    0.000279    1.56E-06
   133    4.05E-05    4.62E-05   -0.004048
 0.000141    0.000212    1.17E-06
   134    4.08E-05    5.04E-05   -0.004785
 0.000155    8.29E-05    5.07E-07
   135    4.11E-05    5.10E-05   -0.004824
 0.000155   -6.61E-05   -2.62E-07
   136    4.14E-05    4.79E-05   -0.004156
 0.000142   -0.000200   -9.80E-07
   137    4.17E-05    4.18E-05   -0.002958
 0.000118   -0.000275   -1.47E-06
   138    4.18E-05    3.41E-05   -0.001583
 8.89E-05   -0.000273   -1.59E-06
   139    4.19E-05    2.69E-05   -0.000431
```

6.42E-05	-0.000182	-1.25E-06	
140	4.19E-05	2.33E-05	-6.53E-07
6.02E-05	-6.30E-05	-8.18E-07	
141	4.20E-05	2.13E-05	-7.83E-06
7.03E-05	-5.67E-05	-3.61E-07	
142	4.21E-05	2.07E-05	-0.000571
0.000100	0.000153	7.10E-08	
143	4.23E-05	2.13E-05	-0.001406
0.000131	0.000166	1.30E-07	
144	4.26E-05	2.14E-05	-0.002147
0.000154	0.000113	-1.15E-07	
145	4.28E-05	1.99E-05	-0.002495
0.000163	1.07E-05	-5.09E-07	
146	4.29E-05	1.64E-05	-0.002315
0.000158	-9.77E-05	-8.80E-07	
147	4.29E-05	1.15E-05	-0.001657
0.000141	-0.000178	-1.07E-06	
148	4.28E-05	6.47E-06	-0.000745
0.000117	-0.000195	-9.22E-07	

< AFTER COMPOSITE SELF-WEIGHT LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	4.28E-05	3.18E-06	6.69E-05
9.10E-05	-0.000134	-3.35E-07	
150	4.30E-05	3.88E-06	0.000355
7.54E-05	2.05E-05	6.84E-07	
151	4.34E-05	7.67E-06	-7.45E-07
8.18E-05	0.000182	1.53E-06	
152	4.44E-05	1.80E-05	-0.001482
0.000111	0.000387	2.63E-06	
153	4.58E-05	3.28E-05	-0.003699
0.000147	0.000476	3.36E-06	
154	4.76E-05	4.99E-05	-0.006098
0.000176	0.000456	3.55E-06	
155	4.96E-05	6.67E-05	-0.008176
0.000188	0.000343	3.25E-06	
156	5.14E-05	8.11E-05	-0.009528
0.000182	0.000164	2.60E-06	
157	5.30E-05	9.17E-05	-0.009898
0.000162	-5.19E-05	1.70E-06	
158	5.40E-05	9.74E-05	-0.009170
0.000128	-0.000275	5.95E-07	
159	5.44E-05	9.73E-05	-0.007367
8.32E-05	-0.000480	-6.23E-07	
160	5.41E-05	9.14E-05	-0.004617
2.82E-05	-0.000652	-1.77E-06	
161	5.31E-05	8.06E-05	-0.001126
-3.21E-05	-0.000758	-2.54E-06	
162	5.22E-05	7.66E-05	-2.29E-07
-4.37E-05	-0.000765	-2.62E-06	
163	3.69E-05	5.00E-05	-3.13E-06
-3.32E-05	0.000417	5.08E-05	
164	3.79E-05	4.33E-05	-0.001707
-4.84E-05	0.000347	3.56E-05	
165	3.00E-05	3.66E-05	-0.003228
-4.79E-05	0.000249	2.62E-05	
166	3.97E-05	3.13E-05	-0.004164
-3.48E-05	0.000116	1.19E-05	
167	4.03E-05	2.72E-05	-0.004401
-1.98E-05	-2.63E-05	-3.57E-06	
168	4.06E-05	2.41E-05	-0.003950
-8.16E-06	-0.000154	-1.74E-05	
169	4.09E-05	2.18E-05	-0.002963
-2.08E-07	-0.000236	-2.63E-05	
170	4.10E-05	2.03E-05	-0.001728
8.87E-06	-0.000250	-2.79E-05	
171	4.11E-05	1.89E-05	-0.000613
2.22E-05	-0.000182	-2.08E-05	
172	4.12E-05	1.64E-05	2.22E-07
2.68E-05	-5.74E-05	-5.84E-06	
173	4.14E-05	1.36E-05	-2.01E-05
6.87E-06	6.74E-05	6.04E-06	
174	4.17E-05	8.42E-06	-0.000576
-1.95E-05	0.000152	1.68E-05	
175	4.20E-05	3.60E-06	-0.001449
-3.13E-05	0.000133	1.98E-05	
176	4.22E-05	9.04E-08	-0.002293
-2.93E-05	0.000143	1.54E-05	
177	4.22E-05	-1.60E-06	-0.002809
-2.20E-05	5.58E-05	5.66E-06	
178	4.20E-05	-1.37E-06	-0.002831
-1.61E-05	-4.94E-05	-5.88E-06	
179	4.18E-05	7.15E-07	-0.002352
-1.35E-05	-0.000139	-1.59E-05	
180	4.15E-05	4.41E-06	-0.001529
-1.06E-05	-0.000183	-2.06E-05	
181	4.12E-05	9.10E-06	-0.000654
-1.95E-06	-0.000157	-1.82E-05	
182	4.10E-05	1.37E-05	-6.47E-05
1.42E-05	-7.33E-05	-7.74E-06	
183	4.08E-05	1.59E-05	-3.61E-07
1.96E-05	3.51E-05	2.85E-06	
184	4.07E-05	1.69E-05	-0.000304
7.58E-06	0.000142	1.38E-05	
185	4.06E-05	1.67E-05	-0.001227
-1.38E-05	0.000222	2.44E-05	
186	4.05E-05	1.59E-05	-0.002415
-2.43E-05	0.000242	2.63E-05	
187	4.04E-05	1.53E-05	-0.003509
-2.47E-05	0.000186	2.04E-05	
188	4.02E-05	1.53E-05	-0.004172
-2.20E-05	7.40E-05	8.30E-06	
189	4.00E-05	1.60E-05	-0.004213
-2.17E-05	-5.81E-05	-5.85E-06	
190	3.98E-05	1.72E-05	-0.003620
-2.37E-05	-0.000174	-1.84E-05	
191	3.97E-05	1.86E-05	-0.002564
-2.30E-05	-0.000238	-2.51E-05	
192	3.96E-05	1.95E-05	-0.001371
-1.28E-05	-0.000228	-2.41E-05	
193	3.94E-05	1.90E-05	-0.000386
8.02E-06	-0.000161	-1.46E-05	
194	3.93E-05	1.68E-05	-1.84E-07
1.92E-05	-6.30E-05	-4.37E-06	
195	3.91E-05	1.27E-05	4.85E-05
1.32E-05	3.68E-05	5.39E-06	
196	3.87E-05	4.71E-06	-0.000335
-3.49E-06	0.000112	1.49E-05	
197	3.83E-05	-4.02E-06	-0.000975
-1.21E-05	0.000135	1.71E-05	
198	3.79E-05	-1.20E-05	-0.001563
-1.42E-05	9.33E-05	1.26E-05	

< AFTER COMPOSITE SELF-WEIGHT LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	3.75E-05	-1.81E-05	-0.001827
-1.57E-05	1.03E-05	3.31E-06	
200	3.71E-05	-2.17E-05	-0.001644
-2.03E-05	-8.05E-05	-6.82E-06	
201	3.69E-05	-2.23E-05	-0.001064
-2.63E-05	-0.000143	-1.41E-05	
202	3.69E-05	-1.99E-05	-0.000304
-2.67E-05	-0.000150	-1.51E-05	
203	3.72E-05	-1.49E-05	0.000312
-1.32E-05	-8.11E-05	-8.28E-06	
204	3.76E-05	-7.91E-06	0.000417
1.54E-05	4.29E-05	5.55E-06	
205	3.79E-05	-2.61E-06	4.10E-06
3.69E-05	0.000195	1.99E-05	
206	3.85E-05	5.42E-06	-0.001387
3.42E-05	0.000354	3.94E-05	
207	3.91E-05	1.39E-05	-0.003415
2.27E-05	0.000443	4.86E-05	
208	3.97E-05	2.29E-05	-0.005631
1.55E-05	0.000433	4.75E-05	
209	4.04E-05	3.26E-05	-0.007574
8.74E-06	0.000335	3.72E-05	
210	4.12E-05	4.24E-05	-0.008851
-2.96E-06	0.000171	1.98E-05	
211	4.21E-05	5.17E-05	-0.009204
-2.13E-05	-2.06E-05	-1.38E-06	
212	4.29E-05	6.01E-05	-0.008521
-4.43E-05	-0.000238	-2.35E-05	
213	4.39E-05	6.78E-05	-0.006828
-6.73E-05	-0.000429	-4.35E-05	
214	4.49E-05	7.49E-05	-0.004264
-8.28E-05	-0.000584	-6.15E-05	
215	4.61E-05	8.28E-05	-0.001044
-8.10E-05	-0.000692	-4.84E-05	
216	4.61E-05	8.28E-05	-7.97E-06
-7.27E-05	-0.000690	-5.94E-05	
217	3.84E-05	3.71E-05	7.67E-05
-9.59E-05	0.000443	5.42E-05	
218	3.79E-05	4.02E-05	-0.001730
-1.58E-05	0.000374	3.82E-05	
219	3.76E-05	4.13E-05	-0.003337
4.23E-05	0.000275	2.88E-05	
220	3.76E-05	4.01E-05	-0.004323
7.97E-05	0.000137	1.40E-05	
221	3.79E-05	3.69E-05	-0.004574
0.000101	-1.44E-05	-1.96E-06	
222	3.84E-05	3.23E-05	-0.004100
0.000108	-0.000151	-1.64E-05	
223	3.88E-05	2.70E-05	-0.003059
9.53E-05	-0.000241	-2.58E-05	
224	3.93E-05	2.18E-05	-0.001750
5.90E-05	-0.000263	-2.78E-05	
225	3.98E-05	1.74E-05	-0.000564
1.91E-06	-0.000196	-2.50E-05	
226	4.02E-05	1.39E-05	7.96E-05
-3.95E-05	-6.47E-05	-4.90E-06	
227	4.04E-05	1.20E-05	3.68E-05
-3.00E-05	7.87E-05	7.97E-06	
228	4.06E-05	1.00E-05	-0.000593
1.32E-05	0.000172	1.83E-05	
229	4.07E-05	9.28E-06	-0.001552
5.51E-05	0.000207	2.18E-05	
230	4.07E-05	9.42E-06	-0.002466
8.59E-05	0.000163	1.69E-05	
231	4.06E-05	9.81E-06	-0.003020
0.000104	6.73E-05	6.48E-06	
232	4.06E-05	9.97E-06	-0.003041
0.000110	-4.72E-05	-5.70E-06	
233	4.06E-05	9.97E-06	-0.002523
0.000102	-0.000146	-1.63E-05	
234	4.06E-05	1.01E-05	-0.001629
7.61E-05	-0.000197	-2.16E-05	
235	4.06E-05	1.08E-05	-0.000669
3.12E-05	-0.000173	-1.93E-05	
236	4.07E-05	1.26E-05	-9.24E-06
-2.06E-05	-8.72E-05	-8.62E-06	
237	4.07E-05	1.41E-05	7.55E-05
-4.22E-05	3.29E-05	2.79E-06	
238	4.08E-05	1.56E-05	-0.000245
-2.82E-05	0.000154	1.46E-05	
239	4.09E-05	1.79E-05	-0.001234
1.80E-05	0.000240	2.54E-05	
240	4.09E-05	2.08E-05	-0.002503
6.13E-05	0.000261	2.72E-05	
241	4.09E-05	2.37E-05	-0.003666
9.03E-05	0.000199	2.09E-05	
242	4.09E-05	2.58E-05	-0.004366
0.000104	7.90E-05	8.19E-06	
243	4.10E-05	2.64E-05	-0.004406
0.000104	-6.25E-05	-6.59E-06	
244	4.11E-05	2.55E-05	-0.003774
9.14E-05	-0.000187	-1.98E-05	
245	4.11E-05	2.33E-05	-0.002649
6.27E-05	-0.000256	-2.68E-05	
246	4.12E-05	2.05E-05	-0.001376
1.92E-05	-0.000246	-2.60E-05	
247	4.12E-05	1.74E-05	-0.000325
-2.77E-05	-0.000172	-1.62E-05	
248	4.13E-05	1.47E-05	7.53E-05
-4.26E-05	-6.10E-05	-5.02E-06	

< AFTER COMPOSITE SELF-WEIGHT LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	4.14E-05	1.15E-05	0.000102
-2.18E-05	5.08E-05	5.52E-06	
250	4.14E-05	6.62E-06	-0.000356
2.95E-05	0.000129	1.53E-05	
251	4.13E-05	2.11E-06	-0.001085
7.48E-05	0.000150	1.73E-05	
252	4.12E-05	-2.06E-05	-0.001748
0.000102	0.000102	1.24E-05	
253	4.11E-05	-5.87E-06	-0.002055
0.000111	9.10E-06	2.41E-06	
254	4.10E-05	-9.46E-06	-0.001873
0.000106	-9.17E-05	-8.41E-06	
255	4.09E-05	-1.23E-05	-0.001252
9.06E-05	-0.000162	-1.63E-05	
256	4.09E-05	-1.34E-05	-0.000416
6.02E-05	-0.000174	-1.80E-05	
257	4.11E-05	-1.17E-05	0.000290
1.92E-05	-0.000101	-1.14E-05	
258	4.16E-05	-6.64E-06	0.000471
-2.37E-05	3.22E-05	-2.83E-06	
259	4.21E-05	-1.66E-05	7.97E-05
-3.27E-05	0.000204	1.84E-05	
260	4.30E-05	6.49E-06	-0.001342
1.38E-05	0.000369	3.88E-05	
261	4.40E-05	1.69E-05	-0.003449
7.65E-05	0.000459	4.81E-05	
262	4.52E-05	2.92E-05	-0.005749
0.000118	0.000443	4.66E-05	
263	4.65E-05	4.24E-05	-0.007761
0.000134	0.000337	3.56E-05	
264	4.78E-05	5.47E-05	-0.009080
0.000131	0.000165	1.76E-05	
265	4.89E-05	6.50E-05	-0.009445
0.000112	-4.46E-05	-4.25E-06	
266	4.97E-05	7.24E-05	-0.008743
8.16E-05	-0.000261	-2.69E-05	
267	5.01E-05	7.63E-05	-0.006997
3.99E-05	-0.000459	-4.73E-05	
268	5.00E-05	7.62E-05	-0.004347
-1.63E-05	-0.000616	-6.57E-05	
269	4.95E-05	7.29E-05	-0.001008
-9.50E-05	-0.000724	-5.23E-05	
270	4.90E-05	6.91E-05	6.90E-05
-0.000124	-0.000716	-6.36E-05	
271	-0.000405	2.82E-22	0.000000
-5.62E-05	0.000406	-2.34E-06	
272	0.000103	6.56E-22	0.000000
-1.35E-05	-4.99E-05	-7.15E-07	
273	0.000000	0.000000	0.000000
-1.33E-05	3.46E-05	4.75E-07	
274	0.000113	4.28E-23	0.000000
-1.50E-05	-6.24E-05	-9.24E-07	
275	-0.000192	-2.68E-22	0.000000
3.88E-06	0.000188	1.61E-06	
276	0.000813	-2.51E-22	0.000000
-8.77E-05	-0.000705	2.16E-06	
277	-0.000394	1.01E-21	0.000000
-3.19E-05	0.000394	2.65E-07	
278	0.000101	-1.04E-22	0.000000
-1.06E-05	-4.99E-05	-6.56E-07	
279	0.000000	0.000000	0.000000
-1.16E-05	3.43E-05	4.51E-07	
280	0.000115	-2.14E-23	0.000000
-1.32E-05	-6.19E-05	-8.76E-07	
281	-0.000185	-2.96E-22	0.000000
-3.16E-07	0.000189	1.58E-06	
282	0.000810	-2.42E-21	0.000000
-6.68E-05	-0.000694	-9.82E-07	
283	-0.000456	0.000113	0.000000
6.68E-05	0.000454	1.84E-06	
284	0.000107	9.02E-05	0.000000
6.16E-05	-5.33E-05	-5.95E-07	
285	3.08E-23	9.56E-05	0.000000
6.17E-05	3.40E-05	4.20E-07	
286	0.000106	0.000108	0.000000
6.68E-05	-5.59E-05	-8.18E-07	
287	-0.000183	9.14E-05	.000000
6.69E-05	0.000188	1.53E-06	
288	0.000888	0.000106	.000000
2.27E-05	-0.000765	-2.62E-06	

< AFTER COMPOSITE SELF-WEIGHT LOAD >

R E S T R A I N T F O R C E S (R E A C T I O N S)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

LOAD AFTER ----------

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	21.321925	300.916281
.000000	.000000	.000000	
272	.000000	0.562135	942.059278
.000000	.000000	.000000	
273	0.755834	-1.769896	913.568230
.000000	.000000	.000000	
274	.000000	-0.775109	881.000863
.000000	.000000	.000000	
275	.000000	-15.457432	1021.786
.000000	.000000	.000000	
276	.000000	29.180035	355.948070
.000000	.000000	.000000	
277	.000000	-20.626599	157.983035
.000000	.000000	.000000	
278	.000000	-1.424395	571.031878
.000000	.000000	.000000	
279	0.190398	1.513057	529.966344
.000000	.000000	.000000	
280	.000000	2.466138	496.369308
.000000	.000000	.000000	
281	.000000	12.363758	645.484408
.000000	.000000	.000000	
282	.000000	-27.419887	204.994221
.000000	.000000	.000000	
283	.000000	.000000	374.785443
.000000	.000000	.000000	
284	.000000	.000000	1203.799
.000000	.000000	.000000	
285	-2.041586	.000000	1176.839
.000000	.000000	.000000	
286	.000000	.000000	1142.971
.000000	.000000	.000000	
287	.000000	.000000	1303.768
.000000	.000000	.000000	
288	.000000	.000000	436.852435
.000000	.000000	.000000	

< AFTER COMPOSITE SELF-WEIGHT LOAD >

G L O B A L F O R C E B A L A N C E

TOTAL FORCE AND MOMENT AT THE ORIGIN, IN GLOBAL COORDINATES

LOAD AFTER ----------

	FX	FY	FZ
	MX	MY	MZ
APPLIED	7.30E-31	-2.44E-29	-12660.122
15566.495	1.5870E+06	-2.32E-27	
REACTNS	-5.38E-09	1.58E-10	
12660.122	-15566.495	-1.5870E+06	
1.57E-08			
TOTAL	-5.38E-09	1.58E-10	3.46E-11
1.30E-09	9.78E-09	1.57E-08	

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 1 ========== LENGTH = 4.489314

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.072605	-266.881488	5.291583
-117.968933	1.878942	-2.399362	
0.25000	-3.072605	-250.731119	5.291583
-104.096952	-4.059952	288.066929	
0.50000	-3.072605	-234.579689	5.291583
-90.224972	-9.998846	560.406010	
0.75000	-3.072605	-218.428259	5.291583
-76.352991	-15.937740	814.661881	
1.00000	-3.072605	-202.276829	5.291583
-62.481010	-21.876635	1050.703	

ELEM 2 ========== LENGTH = 4.987379

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.883977	-184.498205	-0.881125
-114.251615	-19.906250	1050.984	
0.25000	-3.883977	-166.554960	-0.881125
-98.840613	-18.837724	1268.839	
0.50000	-3.883977	-148.611516	-0.881125
-83.429611	-17.708998	1466.320	
0.75000	-3.883977	-130.668172	-0.881125
-68.018608	-16.610372	1640.430	
1.00000	-3.883977	-112.724828	-0.881125
-52.607606	-15.511746	1792.166	

ELEM 3 ========== LENGTH = 4.987449

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.423987	-105.331165	-1.580418
-82.530286	-14.215293	1792.417	
0.25000	-4.423987	-87.387569	-1.580418
-67.119068	-12.244730	1912.564	
0.50000	-4.423987	-69.443974	-1.580418
-51.707850	-10.274167	2010.338	
0.75000	-4.423987	-51.500379	-1.580418
-36.296632	-8.303603	2085.738	
1.00000	-4.423987	-33.556784	-1.580418
-20.885414	-6.333040	2138.766	

ELEM 4 ========== LENGTH = 4.987537

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.665770	-27.994849	-0.944506
-50.592301	-5.758475	2138.922	
0.25000	-4.665770	-10.050937	-0.944506
-35.180811	-4.580785	2162.641	
0.50000	-4.665770	7.892975	-0.944506
-19.769321	-3.403095	2163.986	
0.75000	-4.665770	25.836887	-0.944506
-4.357831	-2.225406	2142.958	
1.00000	-4.665770	43.780800	-0.944506
11.053659	-1.047716	2099.555	

ELEM 5 ========== LENGTH = 4.988074

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.596764	49.218211	-0.516360
-22.177485	-1.218549	2099.590	
0.25000	-4.596764	67.164054	-0.516360
-6.764336	-0.574639	2027.025	
0.50000	-4.596764	85.109897	-0.516360
8.648812	0.069271	1932.080	
0.75000	-4.596764	103.055740	-0.516360
24.061961	0.713182	1814.757	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
1.00000	-4.596764	121.001583	-0.516360
39.475110	1.357092	1675.056	

ELEM 6 ========== LENGTH = 4.987426

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.258566	125.914730	-0.363653
8.982856	0.535428	1674.971	
0.25000	-4.258566	143.858242	-0.363653
24.394002	0.988851	1506.787	
0.50000	-4.258566	161.801753	-0.363653
39.805149	1.442274	1316.230	
0.75000	-4.258566	179.745265	-0.363653
55.216295	1.895698	1103.300	
1.00000	-4.258566	197.688777	-0.363653
70.627441	2.349121	867.996848	

ELEM 7 ========== LENGTH = 4.987008

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.745932	203.510162	-0.154580
39.577735	1.106403	867.790451	
0.25000	-3.745932	221.452170	-0.154580
54.987590	1.299126	602.879131	
0.50000	-3.745932	239.394178	-0.154580
70.397444	1.491849	315.598576	
0.75000	-3.745932	257.336186	-0.154580
85.807299	1.684571	5.948787	
1.00000	-3.745932	275.278195	-0.154580
101.217154	1.877294	-326.070237	

ELEM 8 ========== LENGTH = 4.987801

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.197204	288.033167	0.174038
53.311217	0.550329	-326.360121	
0.25000	-3.197204	305.976026	0.174038
68.723523	0.333311	-696.711334	
0.50000	-3.197204	323.922890	0.174038
84.135828	0.116294	-1089.439	
0.75000	-3.197204	341.867751	0.174038
99.548134	-0.100723	-1504.543	
1.00000	-3.197204	359.812613	0.174038
114.960439	-0.317740	-1942.023	

ELEM 9 ========== LENGTH = 4.987631

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.784011	389.415381	0.128838
19.162739	-1.315579	-1942.304	
0.25000	-2.784011	407.359629	0.128838
34.574518	-1.476227	-2439.056	
0.50000	-2.784011	425.303878	0.128838
49.986297	-1.636876	-2958.194	
0.75000	-2.784011	443.248127	0.128838
65.398076	-1.797524	-3499.686	
1.00000	-2.784011	461.192376	0.128838
80.809855	-1.958173	-4063.563	

ELEM 10 ========== LENGTH = 3.492083

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.684726	-439.949205	0.142068
-53.795981	-2.225444	-4063.668	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-2.684726	-427.385553	0.142068
-43.005444	-2.349472	-3685.068	
0.50000	-2.684726	-414.821920	0.142068
-32.214907	-2.473501	-3317.435	
0.75000	-2.684726	-402.258278	0.142068
-21.424370	-2.597529	-2960.771	
1.00000	-2.684726	-389.694636	0.142068
-10.633833	-2.721558	-2615.076	

ELEM 11 ========== LENGTH = 4.987270

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.835373	-358.342944	0.006625
-111.695680	-2.362067	-2614.839	
0.25000	-2.835373	-340.399995	0.006625
-96.285017	-2.370327	-2179.237	
0.50000	-2.835373	-322.457046	0.006625
-80.874354	-2.378586	-1766.006	
0.75000	-2.835373	-304.514097	0.006625
-65.463691	-2.386846	-1375.147	
1.00000	-2.835373	-286.571148	0.006625
-50.053028	-2.395106	-1006.659	

ELEM 12 ========== LENGTH = 4.987437

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.179856	-270.793571	0.361758
-107.627664	-1.555837	-1006.317	
0.25000	-3.179856	-252.850019	0.361758
-92.216483	-2.006899	-679.861956	
0.50000	-3.179856	-234.906467	0.361758
-76.805303	-2.457961	-375.780106	
0.75000	-3.179856	-216.962915	0.361758
-61.394122	-2.909022	-94.071339	
1.00000	-3.179856	199.013363	0.361758
-45.982941	-3.360084	165.264343	

ELEM 13 ========== LENGTH = 4.987665

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.572170 -192.606191 0.559286
-80.817648 -2.401622 165.537555
0.25000 -3.572170 -174.661818 0.559286
-65.405762 -3.099005 394.513793
0.50000 -3.572170 -156.717445 0.559286
-49.993876 -3.796388 601.114899
0.75000 -3.572170 -138.773073 0.559286
-34.581991 -4.493771 785.340874
1.00000 -3.572170 -120.828700 0.559286
-19.170105 -5.191154 947.191718

ELEM 14 ========== LENGTH = 4.988150

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.874400 -116.129467 0.360838
-53.338318 -4.451696 947.321235
0.25000 -3.874400 -98.183348 0.360838
-37.924933 -4.901675 1080.949
0.50000 -3.874400 -80.237230 0.360838
-22.511548 -5.351653 1192.198
0.75000 -3.874400 -62.291112 0.360838
-7.098163 -5.801632 1281.067
1.00000 -3.874400 -44.344993 0.360838
8.315222 -6.251610 1347.557
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page
< AFTER COMPOSITE SELF-WEIGHT LOAD > 14

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 15 ========== LENGTH = 4.986699

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.983586 -38.861254 -0.084612
-30.277798 -5.984465 1347.588
0.25000 -3.983586 -20.920357 -0.084612
-14.868898 -5.876982 1384.852
0.50000 -3.983586 -2.979459 -0.084612
0.540003 -5.773499 1399.750
0.75000 -3.983586 14.961438 -0.084612
15.948904 -5.668015 1392.281
1.00000 -3.983586 32.902335 -0.084612
31.357805 -5.562532 1362.445

ELEM 16 ========== LENGTH = 4.988369

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.865470 38.425413 -0.536958
-7.157062 -5.852393 1362.408
0.25000 -3.865470 56.372318 -0.536958
8.256999 -5.182757 1303.297
0.50000 -3.865470 74.319224 -0.536958
23.671060 -4.513121 1221.805
0.75000 -3.865470 92.266129 -0.536958
39.085122 -3.843485 1117.931
1.00000 -3.865470 110.213035 -0.536958
54.499183 -3.173849 991.675844

ELEM 17 ========== LENGTH = 4.987214

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.550100 115.024233 -0.749149
20.396127 -3.946005 991.542464
0.25000 -3.550100 132.966983 -0.749149
35.806619 -3.011963 836.944292
0.50000 -3.550100 150.909734 -0.749149
51.217112 -2.077921 659.975033
0.75000 -3.550100 168.852485 -0.749149
66.627605 -1.143879 460.634688
1.00000 -3.550100 186.795236 -0.749149
82.038097 -0.209837 238.923256

ELEM 18 ========== LENGTH = 4.988092

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.138629 193.481785 -0.506983
47.088920 -1.215728 238.644439
0.25000 -3.138629 211.427693 -0.506983
62.502124 -0.583508 -13.821268
0.50000 -3.138629 229.373600 -0.506983
77.915327 0.048712 -288.665934
0.75000 -3.138629 247.319508 -0.506983
93.328531 0.680931 -585.889557
1.00000 -3.138629 265.265415 -0.506983
108.741735 1.313151 -905.492140

ELEM 19 ========== LENGTH = 4.987142

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -2.766335 281.097500 0.105061
51.710530 0.407279 -905.838103
0.25000 -2.766335 299.039990 0.105061
67.120799 0.276291 -1267.492
0.50000 -2.766335 316.982480 0.105061
82.531068 0.145302 -1651.516
0.75000 -2.766335 334.924970 0.105061
97.941336 0.014314 -2057.910
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page
< AFTER COMPOSITE SELF-WEIGHT LOAD > 15

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
1.00000 -2.766335 352.867460 0.105061
113.351605 -0.116674 -2486.675

ELEM 20 ========== LENGTH = 3.491733

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -2.572220 383.887412 0.619002
14.531112 -0.575070 -2486.949
0.25000 -2.572220 396.449794 0.619002
25.320567 -1.115418 -2827.540
0.50000 -2.572220 409.012177 0.619002
36.110022 -1.655765 -3179.097
0.75000 -2.572220 421.574560 0.619002
46.899477 -2.196113 -3541.620
1.00000 -2.572220 434.136943 0.619002
57.688933 -2.736461 -3915.110

ELEM 21 ========== LENGTH = 3.491348

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.389883 -442.786186 -0.849821
-59.518096 -2.591710 -3916.026
0.25000 -3.389883 -430.225189 -0.849821
-48.729831 -1.849954 -3535.027
0.50000 -3.389883 -417.664193 -0.849821
-37.941567 -1.108199 -3164.993
0.75000 -3.389883 -405.103197 -0.849821
-27.153302 -0.366443 -2805.922
1.00000 -3.389883 -392.542200 -0.849821
-16.365038 0.375312 -2457.815

ELEM 22 ========== LENGTH = 4.987373

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.700211 -361.534587 -0.324419
-115.809879 1.108101 -2457.547
0.25000 -3.700211 -343.591268 -0.324419
-100.398898 1.512600 -2017.957
0.50000 -3.700211 -325.647948 -0.324419
-84.987917 1.917100 -1600.739
0.75000 -3.700211 -307.704629 -0.324419
-69.576936 2.321600 -1205.893
1.00000 -3.700211 -289.761309 -0.324419
-54.165954 2.726100 -833.419757

ELEM 23 ========== LENGTH = 4.987867

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.177994 -273.889275 0.293892
-110.729667 3.885150 -833.084690
0.25000 -4.177994 -255.944177 0.293892
-95.317157 3.518676 -502.742336
0.50000 -4.177994 -237.999078 0.293892
-79.904648 3.152203 -194.776923
0.75000 -4.177994 -220.053979 0.293892
-64.492139 2.785729 90.811547
1.00000 -4.177994 -202.108880 0.293892
-49.079630 2.419255 354.023075

ELEM 24 ========== LENGTH = 4.987464

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.687731 -195.339994 0.542831
-83.621665 3.660279 354.281518
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page
< AFTER COMPOSITE SELF-WEIGHT LOAD > 16

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -4.687731 -177.396347 0.542831
-68.210402 2.983442 586.657634
0.50000 -4.687731 -159.452700 0.542831
-52.799140 2.306605 796.660428
0.75000 -4.687731 -141.509053 0.542831
-37.387877 1.629768 984.289900
1.00000 -4.687731 -123.565405 0.542831
-21.976615 0.952931 1149.546

ELEM 25 ========== LENGTH = 4.987177

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -5.080950 -118.780372 0.334947
-54.854928 1.912438 1149.692
0.25000 -5.080950 -100.837757 0.334947
-39.444552 1.494828 1286.601
0.50000 -5.080950 -82.895141 0.334947
-24.034175 1.077218 1401.140
0.75000 -5.080950 -64.952526 0.334947
-8.623799 0.659608 1493.307
1.00000 -5.080950 -47.009910 0.334947
6.786577 0.241998 1563.104

ELEM 26 ========== LENGTH = 4.988032

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -5.240264 -41.437085 -0.131401
-31.394294 0.628805 1563.158
0.25000 -5.240264 -23.491391 -0.131401
-15.981273 0.792663 1603.641
0.50000 -5.240264 -5.545697 -0.131401
-0.568253 0.956521 1621.746
0.75000 -5.240264 12.399996 -0.131401
14.844767 1.120379 1617.472
1.00000 -5.240264 30.345690 -0.131401
30.257788 1.284237 1590.820

ELEM 27 ========== LENGTH = 4.988005

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -5.125104 35.934893 -0.588408
-7.526765 1.000882 1590.776
0.25000 -5.125104 53.880487 -0.588408
7.886170 1.734628 1534.776
0.50000 -5.125104 71.826082 -0.588408
23.299106 2.468373 1456.398
0.75000 -5.125104 89.771677 -0.588408
38.712041 3.202119 1355.641
1.00000 -5.125104 107.717271 -0.588408
54.124976 3.935864 1232.507

ELEM 28 ========== LENGTH = 4.987103

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.768086 112.501031 -0.793979
21.412523 3.061247 1232.365
0.25000 -4.768086 130.443680 -0.793979
36.822671 4.051161 1080.916
0.50000 -4.768086 148.385729 -0.793979
52.232818 5.041074 907.097627
0.75000 -4.768086 166.328077 -0.793979
67.642965 6.030988 710.908869
1.00000 -4.768086 184.270426 -0.793979
83.053112 7.020902 492.350028
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page
< AFTER COMPOSITE SELF-WEIGHT LOAD > 17

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 29 ========== LENGTH = 4.988326

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.281537 191.087699 -0.554800
49.054204 5.833350 492.096625
0.25000 -4.281537 209.034448 -0.554800
64.468131 6.525230 242.604178
0.50000 -4.281537 226.981197 -0.554800
79.882057 7.217111 -29.269326
0.75000 -4.281537 244.927945 -0.554800
95.295983 7.908992 -323.523887
1.00000 -4.281537 262.874694 -0.554800
110.709910 8.600872 -640.159505

ELEM 30 ========== LENGTH = 4.986674

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.811766 278.787364 0.023731
54.784155 7.457948 -640.516269
0.25000 -3.811766 296.728171 0.023731
70.192978 7.428363 -999.254831
0.50000 -3.811766 314.668979 0.023731
85.601802 7.398778 -1380.360
0.75000 -3.811766 332.609786 0.023731
101.010625 7.369193 -1783.831
1.00000 -3.811766 350.550593 0.023731
116.419449 7.339608 -2209.668

ELEM 31 ========== LENGTH = 3.491742

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.489601 381.601762 0.479694
18.190617 6.575204 -2209.931
0.25000 -3.489601 394.164178 0.479694
28.980101 6.156462 -2548.527
0.50000 -3.489601 406.726594 0.479694
39.769585 5.737720 -2898.091
0.75000 -3.489601 419.289010 0.479694
50.559069 5.318978 -3258.620
1.00000 -3.489601 431.851427 0.479694
61.348553 4.900236 -3630.115

ELEM 32 ========== LENGTH = 3.491035

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.417460 -412.536305 -0.081361
-55.982794 4.685192 -3630.143
0.25000 -3.417460 -399.976434 -0.081361
-45.195496 4.756200 -3275.579
0.50000 -3.417460 -387.416563 -0.081361
-34.408198 4.827208 -2931.977
0.75000 -3.417460 -374.856692 -0.081361
-23.620900 4.898217 -2599.337
1.00000 -3.417460 -362.296821 -0.081361
-12.833602 4.969225 -2277.658

ELEM 33 ========== LENGTH = 4.987993

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.568639 -331.160388 0.358669
-111.054061 5.330262 -2277.401
0.25000 -3.568639 -313.214835 0.358669
-95.641162 4.883002 -1875.634
0.50000 -3.568639 -295.269282 0.358669
-80.228262 4.435742 -1496.244
0.75000 -3.568639 -277.323729 0.358669
-64.815363 3.988483 -1139.233
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page
< AFTER COMPOSITE SELF-WEIGHT LOAD > 18

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
1.00000 -3.568639 -259.378176 0.358669
-49.402464 3.541223 -804.600045

ELEM 34 ========== LENGTH = 4.987797

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.888175 -243.448515 0.941434
-106.430885 4.325398 -804.244869
0.25000 -3.888175 -225.503670 0.941434
-91.018594 3.151478 -511.865110
0.50000 -3.888175 -207.558825 0.941434
-75.606303 1.977557 -241.861660
0.75000 -3.888175 -189.613980 0.941434
-60.194011 0.803636 176.481
1.00000 -3.888175 -171.669135 0.941434
-44.781720 -0.370285 231.016314

ELEM 35 ========== LENGTH = 4.987697

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.244606 -164.899407 1.170120
-80.091110 0.507407 231.276291
0.25000 -4.244606 -146.954920 1.170120
-64.679127 -0.951644 425.705647
0.50000 -4.244606 -129.010434 1.170120
-49.267144 -2.410694 597.759589
0.75000 -4.244606 -111.065948 1.170120
-33.855160 -3.869745 747.438115
1.00000 -4.244606 -93.121461 1.170120
-18.443177 -5.328795 874.741228

ELEM 36 ========== LENGTH = 4.987679

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.509001 -88.345264 0.911123
-53.214319 -4.674595 874.868452
0.25000 -4.509001 -70.400840 0.911123
-37.802390 -5.810692 973.840285
0.50000 -4.509001 -52.456417 0.911123
-22.390461 -6.946789 1050.437
0.75000 -4.509001 -34.511994 0.911123
-6.978532 -8.082886 1104.658
1.00000 -4.509001 -16.567571 0.911123
8.433397 -9.218983 1136.504

ELEM 37 ========== LENGTH = 4.987874

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.588131 -11.077510 0.326082
-31.270924 -9.019047 1136.544
0.25000 -4.588131 6.867614 0.326082
-15.858393 -9.425662 1139.168
0.50000 -4.588131 24.812738 0.326082
-0.445862 -9.832276 1119.416
0.75000 -4.588131 42.757862 0.326082
14.966669 -10.238890 1077.287
1.00000 -4.588131 60.702986 0.326082
30.379200 -10.645504 1012.781

ELEM 38 ========== LENGTH = 4.987099

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.466513 66.024247 -0.348556
-9.906112 -10.940640 1012.739
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page
< AFTER COMPOSITE SELF-WEIGHT LOAD > 19

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -4.466513 83.966583 -0.348556
5.504024 -10.506069 919.236710
0.50000 -4.466513 101.908918 -0.348556
20.914159 -10.071498 803.364271
0.75000 -4.466513 119.851253 -0.348556
36.324295 -9.636927 665.121781
1.00000 -4.466513 137.793588 -0.348556
51.734431 -9.202357 504.509241

ELEM 39 ========== LENGTH = 4.987497

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.199627 142.140678 -0.729619
16.493302 -9.857710 504.376699
0.25000 -4.199627 160.084443 -0.729619
31.904667 -8.947967 315.958355
0.50000 -4.199627 178.028209 -0.729619
47.316031 -8.038224 105.166393
0.75000 -4.199627 195.971975 -0.729619
62.727396 -7.128481 -127.999186
1.00000 -4.199627 213.915741 -0.729619
78.138760 -6.218738 -383.538383

ELEM 40 ========== LENGTH = 4.988083

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.907899 219.729275 -0.222127
42.128453 -6.934845 -383.807362
0.25000 -3.907899 237.675151 -0.222127
57.541630 -6.657849 -669.003472
0.50000 -3.907899 255.621026 -0.222127
72.954807 -6.380852 -976.578763
0.75000 -3.907899 273.566902 -0.222127
88.367984 -6.103856 -1306.533
1.00000 -3.907899 291.512778 -0.222127
103.781161 -5.826859 -1658.866

ELEM 41 ========== LENGTH = 4.987670

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.733978 306.694746 1.861749
44.581139 -6.243500 -1659.199
0.25000 -3.733978 324.639138 1.861749
59.993041 -8.564947 -2052.810
0.50000 -3.733978 342.583530 1.861749
75.404943 -10.886395 -2468.795
0.75000 -3.733978 360.527921 1.861749
90.816845 -13.207842 -2907.156
1.00000 -3.733978 378.472313 1.861749
106.228747 -15.529290 -3367.893

ELEM 42 ========== LENGTH = 3.491179

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.837566 409.451850 5.704686
1.556875 -15.253286 -3368.184
0.25000 -3.837566 422.012240 5.704686
12.344619 -20.232307 -3731.033
0.50000 -3.837566 434.572630 5.704686
23.132363 -25.211327 -4104.845
0.75000 -3.837566 447.133021 5.704686
33.920107 -30.190348 -4489.619
1.00000 -3.837566 459.693411 5.704686
44.707851 -35.169369 -4885.355
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page
< AFTER COMPOSITE SELF-WEIGHT LOAD > 20

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 43 ========== LENGTH = 4.987727

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -5.944426 -521.082299 -5.112702
-76.580664 -34.176565 -4887.342
0.25000 -5.944426 -503.137705 -5.112702
-61.168588 -27.801375 -4248.776
0.50000 -5.944426 -485.193111 -5.112702
-45.756513 -21.426185 -3632.586
0.75000 -5.944426 -467.248518 -5.112702
-30.344437 -15.050996 -3038.771
1.00000 -5.944426 -449.303924 -5.112702
-14.932361 -8.675806 -2467.332

ELEM 44 ========== LENGTH = 4.987797

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -6.699414 -420.063234 -1.650338
-114.819293 -6.889317 -2467.100
0.25000 -6.699414 -402.118386 -1.650338
-99.406999 -4.831429 -1954.491
0.50000 -6.699414 -384.173538 -1.650338
-83.994706 -2.773542 -1464.257
0.75000 -6.699414 -366.228691 -1.650338
-68.582412 -0.715654 -996.400640
1.00000 -6.699414 -348.283843 -1.650338
-53.170118 1.342234 -550.920179

ELEM 45 ========== LENGTH = 4.986834

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3
0.00000 -7.623104 -336.013178 0.003706
-103.020027 3.567860 -550.677633
0.25000 -7.623104 -318.071796 0.003706
-87.610710 3.563240 -142.950988
0.50000 -7.623104 -300.130414 0.003706
-72.201393 3.558620 242.407985
0.75000 -7.623104 -282.189032 0.003706
-56.792076 3.554000 605.399284
1.00000 -7.623104 -264.247650 0.003706
-41.382760 3.549381 946.022910

ELEM 46 ========== LENGTH = 4.988071

LOAD AFTER ----------

REL DIST P V2 V3
T M2 M3

```
 0.00000    -8.523258  -258.643824     0.289462
-74.659615    5.728492   946.188918
 0.25000    -8.523258  -240.697991     0.289462
-59.246475    5.367527   1257.533
 0.50000    -8.523258  -222.752159     0.289462
-43.833335    5.006563   1546.498
 0.75000    -8.523258  -204.806326     0.289462
-28.420196    4.645598   1813.085
 1.00000    -8.523258  -186.860493     0.289462
-13.007056    4.284634   2057.293

 ELEM       47 ================== LENGTH
=     4.987346

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.225726  -181.433653     0.049298
-48.596189    5.983660   2057.340
 0.25000   -9.225726  -163.490429     0.049298
-33.185290    5.922194   2272.372
 0.50000   -9.225726  -145.547205     0.049298
-17.774391    5.860728   2465.031
 0.75000   -9.225726  -127.603981     0.049298
-2.363492    5.799262   2635.319
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      21

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 1.00000   -9.225726  -109.660757     0.049298
 13.047407    5.737796   2783.234

 ELEM       48 ================== LENGTH
=     4.987936

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.591926  -102.543932    -0.089722
-27.369032    6.619962   2783.219
 0.25000   -9.591926   -84.598585    -0.089722
-11.956309    6.731843   2899.901
 0.50000   -9.591926   -66.653237    -0.089722
 3.456414    6.843725   2994.205
 0.75000   -9.591926   -48.707889    -0.089722
 18.869137    6.955607   3066.132
 1.00000   -9.591926   -30.762542    -0.089722
 34.281860    7.067489   3115.681

 ELEM       49 ================== LENGTH
=     4.987455

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.547405  -22.872810     0.236808
-8.566474    6.955750   3115.623
 0.25000   -9.547405   -4.929195     0.236808
 6.844761    6.660483   3132.956
 0.50000   -9.547405   13.014420     0.236808
 22.255997    6.365216   3127.915
 0.75000   -9.547405   30.958036     0.236808
 37.667232    6.069949   3100.501
 1.00000   -9.547405   48.901651     0.236808
 53.078467    5.774683   3050.714

 ELEM       50 ================== LENGTH
=     4.988196

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.069491   56.262370     1.097198
 15.145516    4.621033   3050.619
 0.25000   -9.069491   74.208651     1.097198
 30.559042    3.252773   2969.268
 0.50000   -9.069491   92.154933     1.097198
 45.972567    1.884513   2865.536
 0.75000   -9.069491  110.101215     1.097198
 61.386092    0.516253   2739.424
 1.00000   -9.069491  128.047496     1.097198
 76.799617   -0.852007   2590.933

 ELEM       51 ================== LENGTH
=     4.987077

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.185546  134.924793     1.673680
 45.469518   -2.977846   2590.741
 0.25000   -8.185546  152.867048     1.673680
 60.879585   -5.064539   2411.336
 0.50000   -8.185546  170.809303     1.673680
 76.289651   -7.151231   2209.561
 0.75000   -8.185546  188.751558     1.673680
 91.699718   -9.237924   1985.416
 1.00000   -8.185546  206.693813     1.673680
107.109785  -11.324616   1738.902

 ELEM       52 ================== LENGTH
=     4.988071

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.982888  216.974678    -1.020666
 74.027607  -14.248554   1738.626
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      22

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   -6.982888  234.920509    -1.020666
 89.440746  -12.975766   1456.865
 0.50000   -6.982888  252.866341    -1.020666
 104.853884  -11.702978   1152.726
 0.75000   -6.982888  270.812172    -1.020666
 120.267023  -10.430190   826.207728
 1.00000   -6.982888  288.758004    -1.020666
 135.680162   -9.157402   477.310773

 ELEM       53 ================== LENGTH
=     1.495611

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.072699  310.889041    -11.723407
 77.050772  -13.532254   477.217991
 0.25000   -5.072699  316.269875    -11.723407
 81.672209   -9.148840   359.969776
 0.50000   -5.072699  321.650709    -11.723407
 86.293647   -4.765426   240.709652
 0.75000   -5.072699  327.031544    -11.723407
 90.915085   -0.382012   119.437620
 1.00000   -5.072699  332.412378    -11.723407
 95.536522    4.001402   -3.846320

 ELEM       54 ================== LENGTH
=     4.462150

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.956612  -239.179403    -3.186017
 79.145840    3.432652    0.673378
 0.25000    0.956612  -227.141638    -3.186017
 79.564166    6.986774   260.772698
 0.50000    0.956612  -215.103872    -3.186017
 79.982493   10.540895   507.443438
 0.75000    0.956612  -203.066106    -3.186017
 80.400819   14.095017   740.685597
 1.00000    0.956612  -191.028340    -3.186017
 80.819146   17.649138   960.499177

 ELEM       55 ================== LENGTH
=     4.958110

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.928116  -193.903377     2.557565
 76.209526   21.453038   959.905496
 0.25000    0.928116  -180.527637     2.557565
 76.674349   18.282865   1191.964
 0.50000    0.928116  -167.151897     2.557565
 77.139171   15.112693   1407.443
 0.75000    0.928116  -153.776157     2.557565
 77.603994   11.942521   1606.343
 1.00000    0.928116  -140.400417     2.557565
 78.068817    8.772349   1788.663

 ELEM       56 ================== LENGTH
=     4.958296

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.916987  -112.723617     2.078711
 49.102614   11.526734   1788.189
 0.25000    0.916987   -99.347373     2.078711
 49.567454    8.950018   1919.628
 0.50000    0.916987   -85.971130     2.078711
 50.032294    6.373301   2034.486
 0.75000    0.916987   -72.594886     2.078711
 50.497134    3.796585   2132.763
 1.00000    0.916987   -59.218643     2.078711
 50.961975    1.219868   2214.459
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      23

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       57 ================== LENGTH
=     4.957389

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.903578  -23.034555     0.872369
 13.662491    2.627705   2214.204
 0.25000    0.903578   -9.660759     0.872369
 14.127246    1.546538   2234.464
 0.50000    0.903578    3.713037     0.872369
 14.592001    0.465370   2238.150
 0.75000    0.903578   17.086833     0.872369
 15.056756   -0.615797   2225.261
 1.00000    0.903578   30.460629     0.872369
 15.521512   -1.696965   2195.797

 ELEM       58 ================== LENGTH
=     4.957821

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.883818   66.891872     0.262897
-22.551885   -1.822975   2195.823
 0.25000    0.883818   80.266833     0.262897
-22.087089   -2.148823   2104.625
 0.50000    0.883818   93.641794     0.262897
-21.622294   -2.474672   1996.849
 0.75000    0.883818  107.016754     0.262897
-21.157498   -2.800521   1872.495
 1.00000    0.883818  120.391715     0.262897
-20.692702   -3.126370   1731.564

 ELEM       59 ================== LENGTH
=     4.958370

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.860213  154.581724    -0.205060
-52.823339   -4.634199   1731.864
 0.25000    0.860213  167.958168    -0.205060
-52.358492   -4.380008   1531.955
 0.50000    0.860213  181.334612    -0.205060
-51.893645   -4.125817   1315.464
 0.75000    0.860213  194.711056    -0.205060
-51.428797   -3.871625   1082.292
 1.00000    0.860213  208.087499    -0.205060
-50.963950   -3.617434   832.739407

 ELEM       60 ================== LENGTH
=     4.957854

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.830076  233.807479    -1.032315
-69.556020   -6.012572   833.201213
 0.25000    0.830076  247.182530    -1.032315
-69.091721   -4.733055   535.116405
 0.50000    0.830076  260.557582    -1.032315
-68.626423   -3.453539   220.453706
 0.75000    0.830076  273.932634    -1.032315
-68.161624   -2.174022  -110.786883
 1.00000    0.830076  287.307686    -1.032315
-67.696825   -0.894506  -458.605362

 ELEM       61 ================== LENGTH
=     4.957653

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.797312  287.908252    -1.719584
-64.652417   -3.433297  -458.132025
 0.25000    0.797312  301.282761    -1.719584
-64.187637   -1.302021  -823.257612
 0.50000    0.797312  314.657270    -1.719584
-63.722857    0.829254  -1204.960
 0.75000    0.797312  328.031779    -1.719584
-63.258077    2.960530  -1603.238
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      24

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 1.00000    0.797312  341.406288    -1.719584
-62.793297    5.091806  -2018.094

 ELEM       62 ================== LENGTH
=     4.958565

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.764150  295.957007    -0.765182
-29.326899    3.273329  -2017.758
 0.25000    0.764150  309.333977    -0.765182
-28.862033    4.221880  -2392.930
 0.50000    0.764150  322.710946    -0.765182
-28.397168    5.170432  -2784.684
 0.75000    0.764150  336.087916    -0.765182
-27.932302    6.118983  -3193.021
 1.00000    0.764150  349.464885    -0.765182
-27.467437    7.067535  -3617.941

 ELEM       63 ================== LENGTH
=     3.469994

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.778788  -303.368126     0.436582
 24.624938    6.597174   -3617.809
 0.25000    0.778788  -294.006950     0.436582
 24.950250    6.218440   -3358.698
 0.50000    0.778788  -284.645775     0.436582
 25.275562    5.839706   -3107.708
 0.75000    0.778788  -275.284599     0.436582
 25.600874    5.460972   -2864.839
 1.00000    0.778788  -265.923423     0.436582
 25.926186    5.082238   -2630.090

 ELEM       64 ================== LENGTH
=     4.958201

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.766611  -324.889422     1.968246
 64.880349    5.778320   -2630.332
 0.25000    0.766611  -311.513434     1.968246
 65.345181    3.338580   -2235.906
 0.50000    0.766611  -298.137446     1.968246
 65.810012    0.898840   -1858.059
 0.75000    0.766611  -284.761458     1.968246
 66.274844   -1.540900   -1496.793
 1.00000    0.766611  -271.385471     1.968246
 66.739675   -3.980640   -1152.107

 ELEM       65 ================== LENGTH
=     4.957300

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.763187  -278.932578     1.413326
 76.168507   -2.265222   -1152.584
 0.25000    0.763187  -265.559021     1.413326
 76.633254   -4.016793   -815.183227
 0.50000    0.763187  -252.185464     1.413326
 77.098001   -5.768364   -494.356367
 0.75000    0.763187  -238.811907     1.413326
 77.562748   -7.519935   -190.103692
 1.00000    0.763187  -225.438350     1.413326
 78.027494   -9.271506    97.574799

 ELEM       66 ================== LENGTH
=     4.958662

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.755781  -204.063222     0.448268
 62.738842   -7.251657   97.132776
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      25

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000    0.755781  -190.685992     0.448268
 63.203717   -7.807360   341.811267
 0.50000    0.755781  -177.308761     0.448268
 63.668592   -8.363062   569.306468
 0.75000    0.755781  -163.931531     0.448268
 64.133466   -8.918764   781.418377
 1.00000    0.755781  -150.554300     0.448268
 64.598341   -9.474467   976.346996

 ELEM       67 ================== LENGTH
=     4.958084

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.745660  -117.721624    -0.024492
 33.625574   -7.895632   975.979896
 0.25000    0.745660  -104.345951    -0.024492
 34.090395   -7.865274   1113.609
 0.50000    0.745660   -90.970279    -0.024492
 34.555215   -7.834916   1234.658
 0.75000    0.745660   -77.594607    -0.024492
 35.020036   -7.804558   1339.128
 1.00000    0.745660   -64.218935    -0.024492
 35.484856   -7.774200   1427.018

 ELEM       68 ================== LENGTH
=     4.957689

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.735033   -29.669433    -0.063996
 -1.543082   -7.178455   1426.869
 0.25000    0.735033   -16.294828    -0.063996
 -1.078298   -7.099137   1455.354
 0.50000    0.735033    -2.920224    -0.063996
 -0.613515   -7.019820   1467.262
 0.75000    0.735033    10.454380    -0.063996
 -0.148732   -6.940502   1462.593
 1.00000    0.735033    23.828985    -0.063996
  0.316051   -6.861185   1441.347

 ELEM       69 ================== LENGTH
=     4.957308

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.725105    58.302622    -0.086801
-35.965280   -7.429319   1441.442
 0.25000    0.725105    71.676199    -0.086801
-35.500532   -7.321745   1360.899
 0.50000    0.725105    85.049777    -0.086801
-35.035785   -7.214171   1263.781
 0.75000    0.725105    98.423354    -0.086801
-34.571037   -7.106596   1150.090
 1.00000    0.725105   111.796931    -0.086801
-34.106290   -6.999022   1019.824

 ELEM       70 ================== LENGTH
=     4.958153

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.715353   144.291094    -0.520132
-64.637369   -8.567862   1020.184
 0.25000    0.715353   157.666952    -0.520132
-64.172542   -7.923139   833.039364
 0.50000    0.715353   171.042810    -0.520132
-63.707715   -7.278415   629.315187
 0.75000    0.715353   184.418669    -0.520132
-63.242888   -6.633691   409.011120
 1.00000    0.715353   197.794527    -0.520132
-62.778061   -5.988967   172.127164
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      26

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       71 ================== LENGTH
=     4.958076

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.701736   218.680310    -1.485535
-77.078158   -8.032891   172.602671
 0.25000    0.701736   232.055960    -1.485535
-76.613339   -6.191541  -106.745410
 0.50000    0.701736   245.431609    -1.485535
-76.148519   -4.350192  -402.672864
 0.75000    0.701736   258.807259    -1.485535
-75.683700   -2.508843  -715.179688
 1.00000    0.701736   272.182908    -1.485535
-75.218880   -0.667493   -1044.266

 ELEM       72 ================== LENGTH
=     4.958160

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.684264   264.233273    -2.319073
-64.502959   -2.453312   -1043.919
 0.25000    0.684264   277.609150    -2.319073
-64.038132    0.421271   -1379.637
 0.50000    0.684264   290.985027    -2.319073
-63.573304    3.295855   -1732.034
 0.75000    0.684264   304.360904    -2.319073
-63.108477    6.170438   -2101.012
 1.00000    0.684264   317.736781    -2.319073
-62.643649    9.045022   -2486.569

 ELEM       73 ================== LENGTH
=     3.470681

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.670005   262.814640    -1.603007
-26.834015    8.212377   -2486.277
 0.25000    0.670005   272.177669    -1.603007
-26.508639    9.603259   -2718.376
 0.50000    0.670005   281.540698    -1.603007
-26.183262   10.994140   -2958.598
 0.75000    0.670005   290.903728    -1.603007
-25.857886   12.385021   -3206.945
 1.00000    0.670005   300.266757    -1.603007
-25.532510   13.775903   -3463.415

 ELEM       74 ================== LENGTH
=     3.470356

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.478812  -309.048102     1.387546
 22.241888   14.083266   -3463.614
 0.25000    0.478812  -299.685950     1.387546
 22.567234   12.879447   -3199.549
 0.50000    0.478812  -290.323797     1.387546
 22.892579   11.675628   -2943.606
 0.75000    0.478812  -280.961645     1.387546
 23.217925   10.471808   -2695.785
 1.00000    0.478812  -271.599492     1.387546
 23.543271    9.267989   -2456.088

 ELEM       75 ================== LENGTH
=     4.957381

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.490711  -326.523523     2.123414
 60.162790   10.682965   -2456.344
 0.25000    0.490711  -313.149749     2.123414
 60.627544    8.051322   -2059.956
 0.50000    0.490711  -299.775975     2.123414
 61.092299    5.419679   -1680.142
 0.75000    0.490711  -286.402200     2.123414
 61.557053    2.788036   -1316.904
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      27

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 1.00000    0.490711  -273.028426     2.123414
 62.021808    0.156393  -970.240027

 ELEM       76 ================== LENGTH
=     4.957854

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.508132  -281.084809     1.281149
 72.973825    2.476902   -970.717614
 0.25000    0.508132  -267.709759     1.281149
 73.438624    0.888964   -630.612219
 0.50000    0.508132  -254.334710     1.281149
 73.903423   -0.698974  -307.084708
 0.75000    0.508132  -240.959660     1.281149
 74.368221   -2.286912    0.135082
 1.00000    0.508132  -227.584610     1.281149
 74.833020   -3.874850   290.236659

 ELEM       77 ================== LENGTH
=     4.958453

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.520978  -206.381183     0.328130
 60.490784   -1.333762   289.760783
 0.25000    0.520978  -193.004517     0.328130
 60.955639   -1.740517   537.302670
 0.50000    0.520978  -179.627851     0.328130
 61.420494   -2.147271   768.262666
 0.75000    0.520978  -166.251186     0.328130
 61.885349   -2.554026   982.640771
 1.00000    0.520978  -152.874520     0.328130
 62.350204   -2.960781   1180.437

 ELEM       78 ================== LENGTH
=     4.958178

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.529481  -120.174670    -0.111635
 32.247566   -0.989832   1180.084
 0.25000    0.529481  -106.798745    -0.111635
 32.712395   -0.851455   1320.756
 0.50000    0.529481   -93.422821    -0.111635
 33.177224   -0.713078   1444.848
 0.75000    0.529481   -80.046897    -0.111635
 33.642053   -0.574701   1552.360
 1.00000    0.529481   -66.670972    -0.111635
 34.106883   -0.436325   1643.291

 ELEM       79 ================== LENGTH
=     4.957033

 LOAD   AFTER ------------------

 REL DIST          P          V2          V3
        T         M2          M3
```

```
 0.00000      0.536950   -32.359712     -0.147306
 -1.498327    0.347034    1643.166
 0.25000      0.536950   -18.986877     -0.147306
 -1.033606    0.529584    1674.981
 0.50000      0.536950    -5.614042     -0.147306
 -0.568884    0.712134    1690.225
 0.75000      0.536950     7.758793     -0.147306
 -0.104162    0.894684    1688.896
 1.00000      0.536950    21.131628     -0.147306
  0.360560    1.077235    1670.995

 ELEM        80 ================== LENGTH
=     4.958005

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.544464    55.417454     -0.185493
-34.798133    0.468183    1671.150
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER COMPOSITE  SELF-WEIGHT LOAD >
                                      28

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P              V2             V3
        T            M2             M3
 0.25000      0.544464    68.792912     -0.185493
-34.333320    0.698101    1594.170
 0.50000      0.544464    82.168369     -0.185493
-33.868507    0.928020    1500.612
 0.75000      0.544464    95.543827     -0.185493
-33.403694    1.157938    1390.475
 1.00000      0.544464   108.919285     -0.185493
-32.938881    1.387857    1263.759

 ELEM        81 ================== LENGTH
=     4.958103

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.550831   141.589719     -0.619226
-62.698790    -0.445250   1264.139
 0.25000      0.550831   154.965442     -0.619226
-62.233968    0.322296    1080.345
 0.50000      0.550831   168.341165     -0.619226
-61.769146    1.089842    879.971437
 0.75000      0.550831   181.716888     -0.619226
-61.304324    1.857389    663.018440
 1.00000      0.550831   195.092611     -0.619226
-60.839501    2.624935    429.485889

 ELEM        82 ================== LENGTH
=     4.958328

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.553914   216.309764     -1.572321
-74.637609    0.162667    429.994769
 0.25000      0.553914   229.686092     -1.572321
-74.172766    2.111688    153.570572
 0.50000      0.553914   243.062421     -1.572321
-73.707923    4.060708   -139.434680
 0.75000      0.553914   256.438749     -1.572321
-73.243080    6.009729   -449.020987
 1.00000      0.553914   269.815077     -1.572321
-72.778236    7.958749   -775.188349

 ELEM        83 ================== LENGTH
=     4.957662

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.553689   261.730831     -2.429809
-60.907138    5.637180   -774.726044
 0.25000      0.553689   275.105363     -2.429809
-60.442357    8.648722    -1107.408
 0.50000      0.553689   288.479895     -2.429809
-59.977576    11.660265   -1456.666
 0.75000      0.553689   301.854427     -2.429809
-59.512795    14.671808   -1822.500
 1.00000      0.553689   315.228959     -2.429809
-59.048015    17.683350   -2204.912

 ELEM        84 ================== LENGTH
=     3.470747

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.557349   260.287850     -1.758319
-21.561030    16.171180   -2204.630
 0.25000      0.557349   269.651057     -1.758319
-21.235647    17.696851   -2434.540
 0.50000      0.557349   279.014265     -1.758319
-20.910265    19.222521   -2672.575
 0.75000      0.557349   288.377472     -1.758319
-20.584882    20.748191   -2918.734
 1.00000      0.557349   297.740679     -1.758319
-20.259500    22.273861   -3173.018
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER COMPOSITE  SELF-WEIGHT LOAD >
                                      29

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        85 ================== LENGTH
=     3.470017

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.640431   -278.015135     2.101269
 26.618612    21.793146   -3172.892
 0.25000      0.640431   -268.653897     2.101269
 26.943926    19.970286   -2935.773
 0.50000      0.640431   -259.292659     2.101269
 27.269240    18.147426   -2706.775
 0.75000      0.640431   -249.931421     2.101269
 27.594554    16.324566   -2485.898
 1.00000      0.640431   -240.570183     2.101269
 27.919868    14.501707   -2273.142

 ELEM        86 ================== LENGTH
=     4.958005

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.672164   -295.527273     2.749556
 64.925731    15.106439   -2273.393
 0.25000      0.672164   -282.151814     2.749556
 65.390544    11.698360   -1915.376
 0.50000      0.672164   -268.776355     2.749556
 65.855357    8.290282    -1573.938
 0.75000      0.672164   -255.400896     2.749556
 66.320170    4.882204    -1249.079
 1.00000      0.672164   -242.025437     2.749556
 66.784983    1.474125   -940.798452

 ELEM        87 ================== LENGTH
=     4.957746

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.706430   -250.068079     1.901160
 77.659654    2.984938   -941.237394
 0.25000      0.706430   -236.693318     1.901160
 78.124442    0.628570   -639.582445
 0.50000      0.706430   -223.318557     1.901160
 78.589231    -1.727798   -354.504664
 0.75000      0.706430   -209.943797     1.901160
 79.054020    -4.084156   -86.004051
 1.00000      0.706430   -196.569036     1.901160
 79.518808    -6.440533   165.919394

 ELEM        88 ================== LENGTH
=     4.958680

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.737567   -175.451485     0.944519
 64.376577    -4.687773   165.457287
 0.25000      0.737567   -162.074206     0.944519
 64.841454    -5.858665   374.667518
 0.50000      0.737567   -148.696928     0.944519
 65.306330    -7.029557   567.294339
 0.75000      0.737567   -135.319649     0.944519
 65.771206    -8.200449   743.337749
 1.00000      0.737567   -121.942371     0.944519
 66.236082    -9.371341   902.797749

 ELEM        89 ================== LENGTH
=     4.957664

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.765111   -89.219467      0.515151
 34.514656    -8.064530   902.449055
 0.25000      0.765111   -75.844928      0.515151
 34.979437    -8.703016   1004.741
 0.50000      0.765111   -62.470390      0.515151
 35.444218    -9.341503   1090.456
 0.75000      0.765111   -49.095851      0.515151
 35.908999    -9.979989   1159.594
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER COMPOSITE  SELF-WEIGHT LOAD >
                                      30

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P              V2             V3
        T            M2             M3
 1.00000      0.765111   -35.721313      0.515151
 36.373780    -10.618476   1212.156

 ELEM        90 ================== LENGTH
=     4.957812

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.793018   -1.398448      0.515529
 -0.834806    -10.252876   1212.014
 0.25000      0.793018    11.976490     0.515529
 -0.370011    -10.891851   1205.459
 0.50000      0.793018    25.351429     0.515529
  0.094784    -11.530825   1182.325
 0.75000      0.793018    38.726367     0.515529
  0.559579    -12.169799   1142.615
 1.00000      0.793018    52.101306     0.515529
  1.024374    -12.808774   1086.326

 ELEM        91 ================== LENGTH
=     4.958087

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.822117    86.561895     0.601999
 -36.430523   -13.480318   1086.461
 0.25000      0.822117    99.937574     0.601999
 -35.965702   -14.226509   970.876049
 0.50000      0.822117    113.313253    0.601999
 -35.500882   -14.972699   838.711532
 0.75000      0.822117    126.688932    0.601999
 -35.036061   -15.718889   689.967570
 1.00000      0.822117    140.064611    0.601999
 -34.571240   -16.465080   524.644163

 ELEM        92 ================== LENGTH
=     4.957431

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.851749   173.336809     0.344174
 -66.666498   -17.901890   524.975339
 0.25000      0.851749   186.710729     0.344174
 -66.201739   -18.328445   301.861479
 0.50000      0.851749   200.084639     0.344174
 -65.736979   -18.755000   62.172561
 0.75000      0.851749   213.458548     0.344174
 -65.272220   -19.181555   -194.091415
 1.00000      0.851749   226.832458     0.344174
 -64.807461   -19.608110   -466.930450

 ELEM        93 ================== LENGTH
=     4.958017

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.876536   248.108119     -0.674031
 -79.701266   -21.198079   -466.454838
 0.25000      0.876536   261.483609     -0.674031
 -79.236452   -20.362615   -782.275372
 0.50000      0.876536   274.859098     -0.674031
 -78.771638   -19.527152   -1114.675
 0.75000      0.876536   288.234588     -0.674031
 -78.306824   -18.691688   -1463.653
 1.00000      0.876536   301.610077     -0.674031
 -77.842010   -17.856225   -1829.211

 ELEM        94 ================== LENGTH
=     4.957604

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.893902   292.955763     -2.644941
 -64.424430   -18.835203   -1828.807
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER COMPOSITE  SELF-WEIGHT LOAD >
                                      31

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P              V2             V3
        T            M2             M3
 0.25000      0.893902   306.330139     -2.644941
 -63.959654   -15.557061   -2200.185
 0.50000      0.893902   319.704515     -2.644941
 -63.494879   -12.278919   -2588.139
 0.75000      0.893902   333.078891     -2.644941
 -63.030104   -9.000777    -2992.669
 1.00000      0.893902   346.453267     -2.644941
 -62.565328   -5.722634    -3413.775

 ELEM        95 ================== LENGTH
=     3.471159

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.910003   284.612980     -5.179949
 -17.177553   -5.271440    -3413.640
 0.25000      0.910003   293.977301     -5.179949
 -16.852132   -0.776333    -3664.687
 0.50000      0.910003   303.341621     -5.179949
 -16.526711   3.718774     -3923.861
 0.75000      0.910003   312.705942     -5.179949
 -16.201290   8.213382     -4191.161
 1.00000      0.910003   322.070262     -5.179949
 -15.875869   12.708989    -4466.587

 ELEM        96 ================== LENGTH
=     4.957662

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.591364   -409.707026     4.464613
 31.313017    14.631804    -4465.984
 0.25000      1.591364   -396.332494     4.464613
 31.777798    9.098293     -3966.475
 0.50000      1.591364   -382.957962     4.464613
 32.242578    3.564783     -3483.543
 0.75000      1.591364   -369.583430     4.464613
 32.707359    -1.968728    -3017.187
 1.00000      1.591364   -356.208898     4.464613
 33.172140    -7.502239    -2567.408

 ELEM        97 ================== LENGTH
=     4.957571

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.652723   -403.949437     1.956834
 73.183097    -3.958168    -2567.870
 0.25000      1.652723   -390.575151     1.956834
 73.647869    -6.383453    -2075.506
 0.50000      1.652723   -377.200865     1.956834
 74.112641    -8.808738    -1599.718
 0.75000      1.652723   -363.826579     1.956834
 74.577414    -11.234023   -1140.506
 1.00000      1.652723   -350.452293     1.956834
 75.042186    -13.659309   -697.870158

 ELEM        98 ================== LENGTH
=     4.958766

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.707065   -350.655139     0.160364
 82.643124    -9.218668    -698.542652
 0.25000      1.707065   -337.277628     0.160364
 83.108009    -9.417470    -272.130444
 0.50000      1.707065   -323.900116     0.160364
 83.572893    -9.616271    137.697777
 0.75000      1.707065   -310.522605     0.160364
 84.037777    -9.815072    530.942011
 1.00000      1.707065   -297.145094     0.160364
 84.502662    -10.013874   907.602257
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER COMPOSITE  SELF-WEIGHT LOAD >
                                      32

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        99 ================== LENGTH
=     4.957922

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.751732   -271.844817     -0.658336
 69.670212    -5.695274    906.945257
 0.25000      1.751732   -258.469582     -0.658336
 70.135018    -4.879279    1235.602
 0.50000      1.751732   -245.094347     -0.658336
 70.599823    -4.063283    1547.681
 0.75000      1.751732   -231.719112     -0.658336
 71.064628    -3.247288    1843.182
 1.00000      1.751732   -218.343877     -0.658336
 71.529433    -2.431293    2122.104

 ELEM       100 ================== LENGTH
=     4.957293

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.793206   -185.234887     -0.769401
 43.797152    0.847214     2121.584
 0.25000      1.793206   -171.861350     -0.769401
 44.261899    1.151243     2342.862
 0.50000      1.793206   -158.487812     -0.769401
 44.726645    2.754287     2547.567
 0.75000      1.793206   -145.114274     -0.769401
 45.191391    3.707824     2735.698
 1.00000      1.793206   -131.740736     -0.769401
 45.656137    4.661361     2907.254

 ELEM       101 ================== LENGTH
=     4.957685

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.835104   -97.519866      -0.613467
 10.927750    6.222205     2907.022
 0.25000      1.835104   -84.145272      -0.613467
 11.392533    6.982549     3019.601
 0.50000      1.835104   -70.770677      -0.613467
 11.857316    7.742894     3115.605
 0.75000      1.835104   -57.396083      -0.613467
 12.322099    8.503238     3195.031
 1.00000      1.835104   -44.021488      -0.613467
 12.786882    9.263583     3257.880

 ELEM       102 ================== LENGTH
=     4.958300

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.876597   -9.684696      -0.745701
 -23.697014   8.733702     3257.974
 0.25000      1.876597   3.691558       -0.745701
 -23.232174   9.658054     3261.688
 0.50000      1.876597   17.067812      -0.745701
 -22.767333   10.582407    3248.822
 0.75000      1.876597   30.444067      -0.745701
 -22.302492   11.506760    3219.375
 1.00000      1.876597   43.820323      -0.745701
 -21.837652   12.431113    3173.347

 ELEM       103 ================== LENGTH
=     4.958049

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.914442   78.777079      -1.735539
 -57.991626   9.735040     3173.708
 0.25000      1.914442   92.152655      -1.735539
 -57.526809   11.886261    3067.773
 0.50000      1.914442   105.528230     -1.735539
 -57.061992   14.037483    2945.259
 0.75000      1.914442   118.903805     -1.735539
 -56.597175   16.188704    2806.166
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER COMPOSITE  SELF-WEIGHT LOAD >
                                      33

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P              V2             V3
        T            M2             M3
 1.00000      1.914442   132.279381     -1.735539
 -56.132358   18.339925    2650.493

 ELEM       104 ================== LENGTH
=     4.957925

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.945921   164.612816     -3.345529
 -86.476024   13.688089    2651.146
 0.25000      1.945921   177.988057     -3.345529
 -86.011219   17.834809    2438.822
 0.50000      1.945921   191.363298     -3.345529
 -85.546413   21.981529    2209.920
 0.75000      1.945921   204.738540     -3.345529
 -85.081608   26.128249    1964.440
 1.00000      1.945921   218.113781     -3.345529
 -84.616803   30.274969    1702.381

 ELEM       105 ================== LENGTH
=     4.957807

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.984704   236.065605     -2.265236
 -101.335096  24.217536    1703.198
 0.25000      1.984704   249.440528     -2.265236
 -100.870301  27.025187    1402.318
 0.50000      1.984704   262.815452     -2.265236
 -100.405507  29.832837    1084.859
 0.75000      1.984704   276.190376     -2.265236
 -99.940712   32.640488    750.823624
 1.00000      1.984704   289.565300     -2.265236
 -99.475918   35.448139    400.210195

 ELEM       106 ================== LENGTH
=     1.487549

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      2.052537   260.374118     12.781331
 -84.406372   26.825535    400.996961
 0.25000      2.052537   264.387152     12.781331
 -84.266915   22.072322    303.420571
 0.50000      2.052537   268.400186     12.781331
 -84.127457   17.319109    204.352585
 0.75000      2.052537   272.413221     12.781331
 -83.987999   12.565896    103.791803
 1.00000      2.052537   276.426255     12.781331
 -83.848542   7.812683     1.738625

 ELEM       107 ================== LENGTH
=     4.434986

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      0.738232   -311.133147     -2.026698
 213.610379   1.881949     -0.597514
 0.25000      0.738232   -291.890850     -2.026698
 188.315434   4.129044     333.702895
 0.50000      0.738232   -272.648552     -2.026698
 163.020488   6.376138     646.668472
 0.75000      0.738232   -253.406255     -2.026698
 137.725543   8.623232     938.299216
 1.00000      0.738232   -234.163957     -2.026698
 112.430598   10.870326    1208.595

 ELEM       108 ================== LENGTH
=     4.927966

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      1.565256   -207.758326     -1.379825
 221.718468   12.870260    1207.703
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER COMPOSITE  SELF-WEIGHT LOAD >
                                      34

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P              V2             V3
        T            M2             M3
 0.25000      1.565256   -186.377115     -1.379825
 193.611816   14.570193    1450.888
 0.50000      1.565256   -164.995904     -1.379825
 165.505164   16.270125    1666.933
 0.75000      1.565256   -143.614693     -1.379825
 137.398512   17.970058    1857.036
 1.00000      1.565256   -122.233483     -1.379825
 109.291860   19.669990    2020.797

 ELEM       109 ================== LENGTH
=     4.928916

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      2.129800   -117.647650     -0.085472
 165.903686   21.045922    2019.987
 0.25000      2.129800   -96.262318      -0.085472
 137.791616   21.151243    2151.780
 0.50000      2.129800   -74.876985      -0.085472
 109.679546   21.256564    2257.221
 0.75000      2.129800   -53.491652      -0.085472
 81.567475    21.361884    2336.311
 1.00000      2.129800   -32.106320      -0.085472
 53.455405    21.467205    2389.049

 ELEM       110 ================== LENGTH
=     4.928344

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      2.412656   -34.007318      0.632330
 95.117539    22.149565    2389.668
 0.25000      2.412656   -12.624468      0.632330
 67.008732    21.370481    2417.385
 0.50000      2.412656    8.758383       0.632330
 38.899925    20.591396    2419.767
 0.75000      2.412656    30.141233      0.632330
 10.791117    19.812312    2395.803
 1.00000      2.412656    51.524053      0.632330
 -17.317690   19.033228    2345.494

 ELEM       111 ================== LENGTH
=     4.927671

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000      2.389475   49.303185      0.955984
 25.831431    18.968291    2345.469
 0.25000      2.389475   70.683119      0.955984
 -2.273542    17.790597    2271.562
 0.50000      2.389475   92.063053      0.955984
 -30.378516   16.612903    2171.317
 0.75000      2.389475   113.442987     0.955984
 -58.483489   15.435209    2044.734
 1.00000      2.389475   134.822921     0.955984
 -86.588463   14.257515    1891.812

 ELEM       112 ================== LENGTH
=     4.928122

 LOAD   AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
```

0.00000	2.089266	135.337910	1.386510
-38.135402	13.517441	1892.179	
0.25000	2.089266	156.719798	1.386510
-66.242945	11.809218	1712.267	
0.50000	2.089266	178.101687	1.386510
-94.350488	10.100996	1506.012	
0.75000	2.089266	199.483576	1.386510
-122.458031	8.392773	1273.414	
1.00000	2.089266	220.865464	1.386510
-150.565574	6.684551	1014.472	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 113 ========== LENGTH = 4.928795

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.601992	229.401156	2.062955
-85.963042	5.486769	1015.133	
0.25000	1.601992	250.785965	2.062955
-114.074423	2.944799	719.290087	
0.50000	1.601992	272.170773	2.062955
-142.185804	0.402829	397.096782	
0.75000	1.601992	293.555581	2.062955
-170.297185	-2.139141	48.553145	
1.00000	1.601992	314.940390	2.062955
-198.408566	-4.681111	-326.340826	

ELEM 114 ========== LENGTH = 4.927594

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.068512	341.472024	2.404276
-91.898635	-5.996150	-325.554130	
0.25000	1.068512	362.851624	2.404276
-120.003169	-8.957974	-759.381774	
0.50000	1.068512	384.231223	2.404276
-148.107703	-11.919799	-1219.547	
0.75000	1.068512	405.610823	2.404276
-176.212237	-14.881623	-1706.050	
1.00000	1.068512	426.990422	2.404276
-204.316770	-17.843447	-2218.890	

ELEM 115 ========== LENGTH = 4.928335

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.664004	484.965886	1.397664
-20.810109	-18.843992	-2218.242	
0.25000	0.664004	506.348701	1.397664
-48.918870	-20.366031	-2828.933	
0.50000	0.664004	527.731516	1.397664
-77.027631	-22.288070	-3465.970	
0.75000	0.664004	549.114332	1.397664
-105.136392	-24.010109	-4129.352	
1.00000	0.664004	570.497147	1.397664
-133.245153	-25.732148	-4819.080	

ELEM 116 ========== LENGTH = 3.450058

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.577027	-556.080019	-0.816649
99.350528	-25.942228	-4818.878	
0.25000	0.577027	-541.111081	-0.816649
79.673125	-25.237856	-4345.706	
0.50000	0.577027	-526.142144	-0.816649
59.995722	-24.533485	-3885.446	
0.75000	0.577027	-511.173207	-0.816649
40.318319	-23.829114	-3438.096	
1.00000	0.577027	-496.204270	-0.816649
20.640916	-23.124743	-3003.657	

ELEM 117 ========== LENGTH = 4.928060

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.767158	-435.095157	-2.301177
212.222559	-22.656606	-3004.283	
0.25000	0.767158	-413.713534	-2.301177
184.115366	-19.821521	-2481.411	
0.50000	0.767158	-392.331912	-2.301177
156.008173	-16.986436	-1984.880	
0.75000	0.767158	-370.950290	-2.301177
127.900981	-14.151351	-1514.693	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
1.00000	0.767158	-349.568667	-2.301177
99.793788	-11.316266	-1070.848	

ELEM 118 ========== LENGTH = 4.928231

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.148400	-315.885357	-2.157320
222.121122	-10.366430	-1071.733	
0.25000	1.148400	-294.502993	-2.157320
194.012955	-7.708487	-695.716148	
0.50000	1.148400	-273.120629	-2.157320
165.904787	-5.050544	-346.043577	
0.75000	1.148400	-251.738264	-2.157320
137.796619	-2.392601	-22.715315	
1.00000	1.148400	-230.355900	-2.157320
109.688451	0.265342	274.268637	

ELEM 119 ========== LENGTH = 4.927598

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.573131	-218.353135	-1.372281
180.972231	1.313860	273.497943	
0.25000	1.573131	-196.973521	-1.372281
152.867678	3.004372	529.318272	
0.50000	1.573131	-175.593907	-1.372281
124.763125	4.694884	758.801067	
0.75000	1.573131	-154.214293	-1.372281
96.658572	6.385396	961.946329	
1.00000	1.573131	-132.834679	-1.372281
68.554019	8.075909	1138.754	

ELEM 120 ========== LENGTH = 4.929017

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.898798	-130.649799	-0.625402
119.389427	8.877181	1138.230	
0.25000	1.898798	-109.264028	-0.625402
91.276781	9.647835	1286.047	
0.50000	1.898798	-87.878258	-0.625402
63.164135	10.418488	1407.512	
0.75000	1.898798	-66.492487	-0.625402
35.051489	11.189142	1502.624	
1.00000	1.898798	-45.106717	-0.625402
6.938844	11.959796	1571.383	

ELEM 121 ========== LENGTH = 4.927624

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.022673	-45.587367	-0.030572
53.781658	12.263449	1571.211	
0.25000	2.022673	-24.207639	-0.030572
25.676956	12.301110	1614.201	
0.50000	2.022673	-2.827911	-0.030572
-2.427746	12.338772	1630.854	
0.75000	2.022673	18.551816	-0.030572
-30.532449	12.376433	1621.169	
1.00000	2.022673	39.931544	-0.030572
-58.637151	12.414095	1585.146	

ELEM 122 ========== LENGTH = 4.928294

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.910231	39.505358	0.554729
-11.355157	12.138952	1585.336	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	1.910231	60.887995	0.554729
-39.463684	11.455486	1523.490	
0.50000	1.910231	82.270632	0.554729
-67.572211	10.772019	1435.299	
0.75000	1.910231	103.653269	0.554729
-95.680738	10.088553	1320.763	
1.00000	1.910231	125.035906	0.554729
-123.789264	9.405086	1179.883	

ELEM 123 ========== LENGTH = 4.928139

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.591687	127.400169	1.278823
-72.892868	8.623206	1180.408	
0.25000	1.591687	148.782132	1.278823
-101.000508	7.047651	1010.275	
0.50000	1.591687	170.164095	1.278823
-129.108149	5.472097	813.798645	
0.75000	1.591687	191.546058	1.278823
-157.215790	3.896542	590.978905	
1.00000	1.591687	212.928021	1.278823
-185.323431	2.320987	341.815844	

ELEM 124 ========== LENGTH = 4.928060

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.166845	225.272255	2.023076
-113.389437	1.273675	342.640649	
0.25000	1.166845	246.653876	2.023076
-141.496628	-1.218786	51.930609	
0.50000	1.166845	268.035496	2.023076
-169.603818	-3.711246	-265.121908	
0.75000	1.166845	289.417117	2.023076
-197.711009	-6.203707	-608.516904	
1.00000	1.166845	310.798738	2.023076
-225.818199	-8.696167	-978.254376	

ELEM 125 ========== LENGTH = 4.928108

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.775680	344.363690	2.192305
-104.297371	-9.667405	-977.355675	
0.25000	0.775680	365.745519	2.192305
-132.404836	-12.368384	-1414.793	
0.50000	0.775680	387.127349	2.192305
-160.512301	-15.069363	-1878.572	
0.75000	0.775680	408.509178	2.192305
-188.619766	-17.770342	-2369.695	
1.00000	0.775680	429.891007	2.192305
-216.727230	-20.471322	-2885.161	

ELEM 126 ========== LENGTH = 3.449691

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.564624	489.870026	0.897276
-29.085048	-20.987234	-2884.527	
0.25000	0.564624	504.837373	0.897276
-48.760360	-21.761065	-3313.456	
0.50000	0.564624	519.804719	0.897276
-68.435673	-22.534896	-3755.294	
0.75000	0.564624	534.772066	0.897276
-88.110986	-23.308727	-4210.039	
1.00000	0.564624	549.739413	0.897276
-107.786298	-24.082558	-4677.693	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 127 ========== LENGTH = 3.450336

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.666367	-557.727460	-1.092152
104.041147	-23.939946	-4675.257	
0.25000	2.666367	-542.757316	-1.092152
84.362157	-22.997873	-4200.626	
0.50000	2.666367	-527.787171	-1.092152
64.683167	-22.055800	-3738.909	
0.75000	2.666367	-512.817027	-1.092152
45.004177	-21.113728	-3290.105	
1.00000	2.666367	-497.846883	-1.092152
25.325187	-20.171655	-2854.214	

ELEM 128 ========== LENGTH = 4.928365

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.989730	-437.826264	-2.377483
212.959770	-19.384900	-2854.885	
0.25000	2.989730	-416.443319	-2.377483
184.850838	-16.455623	-2328.616	
0.50000	2.989730	-395.060374	-2.377483
156.741907	-13.526347	-1828.692	
0.75000	2.989730	-373.677429	-2.377483
128.632975	-10.597071	-1355.115	
1.00000	2.989730	-352.294483	-2.377483
100.524043	-7.667794	-907.882737	

ELEM 129 ========== LENGTH = 4.927840

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.483402	-318.687807	-2.211735
222.448945	-6.445777	-908.800668	
0.25000	3.483402	-297.307140	-2.211735
194.343008	-3.721008	-529.360078	
0.50000	3.483402	-275.926472	-2.211735
166.237071	-0.996239	-176.259617	
0.75000	3.483402	-254.545805	-2.211735
138.131134	1.728530	150.500717	
1.00000	3.483402	-233.165138	-2.211735
110.025197	4.453298	450.920922	

ELEM 130 ========== LENGTH = 4.928455

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.004835	-220.976683	-1.486381
181.723195	5.736147	450.124703	
0.25000	4.004835	-199.593347	-1.486381
153.613750	7.567538	709.219784	
0.50000	4.004835	-178.210011	-1.486381
125.504304	9.398928	941.968161	
0.75000	4.004835	-156.826675	-1.486381
97.394859	11.230318	1148.370	
1.00000	4.004835	-135.443339	-1.486381
69.285413	13.061708	1328.425	

ELEM 131 ========== LENGTH = 4.928188

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.401912	-133.383580	-0.750523
119.840049	14.036604	1327.908	
0.25000	4.401912	-112.001406	-0.750523
91.732131	14.961283	1479.071	
0.50000	4.401912	-90.619232	-0.750523
63.624213	15.885963	1603.890	
0.75000	4.401912	-69.237058	-0.750523
35.516295	16.810642	1702.365	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
1.00000	4.401912	-47.854884	-0.750523
7.408377	17.735321	1774.497	

ELEM 132 ========== LENGTH = 4.928029

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.555456	-48.260480	-0.125946
55.902795	18.112458	1774.308	
0.25000	4.555456	-26.878993	-0.125946
27.795780	18.267624	1820.594	
0.50000	4.555456	-5.497506	-0.125946
-0.311235	18.422790	1840.538	
0.75000	4.555456	15.883981	-0.125946
-28.418251	18.577956	1834.140	
1.00000	4.555456	37.265468	-0.125946
-56.525266	18.733122	1801.400	

ELEM 133 ========== LENGTH = 4.928005

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.426010	36.869540	0.496385
-8.591522	18.418027	1801.578	
0.25000	4.426010	58.250921	0.496385
-36.698398	17.742984	1742.984	
0.50000	4.426010	79.632303	0.496385
-64.805274	17.194933	1658.047	
0.75000	4.426010	101.013684	0.496385
-92.912151	16.583385	1546.769	
1.00000	4.426010	122.395066	0.496385
-121.019027	15.971838	1409.149	

ELEM 134 ========== LENGTH = 4.928104

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.045417	124.416199	1.226666
-69.891832	15.040094	1409.693	
0.25000	4.045417	145.798010	1.226666
-97.999273	13.528810	1243.238	
0.50000	4.045417	167.179820	1.226666
-126.106713	12.017526	1050.439	
0.75000	4.045417	188.561631	1.226666
-154.214154	10.506241	831.298068	
1.00000	4.045417	209.943442	1.226666
-182.321595	8.994957	585.813767	

ELEM 135 ========== LENGTH = 4.928318

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.527679	222.100412	1.968607
-110.085968	7.726659	586.613061	
0.25000	3.527679	243.483152	1.968607
-138.194630	5.299178	299.795068	
0.50000	3.527679	264.865893	1.968607
-166.303293	2.873697	-13.368162	
0.75000	3.527679	286.248633	1.968607
-194.411956	0.448216	-352.676629	
1.00000	3.527679	307.631374	1.968607
-222.520618	-1.977265	-718.730332	

ELEM 136 ========== LENGTH = 4.927666

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.023076	341.173373	2.198056
-99.849091	-3.223097	-717.850469	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	3.023076	362.553283	2.198056
-127.954033	-5.930918	-1151.317	
0.50000	3.023076	383.933192	2.198056
-156.058975	-8.638739	-1611.121	
0.75000	3.023076	405.313102	2.198056
-184.163917	-11.346560	-2097.264	
1.00000	3.023076	426.693012	2.198056
-212.268858	-14.054381	-2609.745	

ELEM 137 ========== LENGTH = 3.449731

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.667110	486.660476	1.064466
-23.397920	-14.916800	-2609.072	
0.25000	2.667110	501.627996	1.064466
-43.073460	-15.834830	-3035.238	
0.50000	2.667110	516.595515	1.064466
-62.748999	-16.752861	-3474.313	
0.75000	2.667110	531.563034	1.064466
-82.424538	-17.670892	-3926.296	
1.00000	2.667110	546.530553	1.064466
-102.100077	-18.588922	-4391.187	

ELEM 138 ========== LENGTH = 3.450023

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.555898	-527.078143	-0.745785
109.428275	-18.851463	-4391.167	
0.25000	2.555898	-512.109357	-0.745785
89.751070	-18.208220	-3943.014	
0.50000	2.555898	-497.140571	-0.745785
70.073866	-17.564976	-3507.772	
0.75000	2.555898	-482.171784	-0.745785
50.396661	-16.921732	-3085.441	
1.00000	2.555898	-467.202998	-0.745785
30.719456	-16.278489	-2676.021	

ELEM 139 ========== LENGTH = 4.927989

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.705832	-407.348134	-1.914068
219.233765	-15.909827	-2676.644	
0.25000	2.705832	-385.966821	-1.914068
191.126979	-13.551700	-2187.963	
0.50000	2.705832	-364.585509	-1.914068
163.020194	-11.193574	-1725.624	
0.75000	2.705832	-343.204196	-1.914068
134.913408	-8.835448	-1289.627	
1.00000	2.705832	-321.822884	-1.914068
106.806623	-6.477322	-879.970919	

ELEM 140 ========== LENGTH = 4.928729

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.028211	-288.313224	-1.700966
228.837899	-5.675829	-880.822596	
0.25000	3.028211	-266.928700	-1.700966
200.726892	-3.579929	-538.742957	
0.50000	3.028211	-245.544176	-1.700966
172.615885	-1.484029	-223.012950	
0.75000	3.028211	-224.159652	-1.700966
144.504878	0.611871	66.367424	
1.00000	3.028211	-202.775128	-1.700966
116.393870	2.707771	329.398166	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 141 ========== LENGTH = 4.927664

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.382964	-190.638986	-0.960198
187.688277	3.583390	328.547539	
0.25000	3.382964	-169.259083	-0.960198
159.583344	4.766273	550.229650	
0.50000	3.382964	-147.879179	-0.960198
131.478410	5.949156	745.573513	
0.75000	3.382964	-126.499275	-0.960198
103.373476	7.132040	914.579129	
1.00000	3.382964	-105.119371	-0.960198
75.268543	8.314923	1057.246	

ELEM 142 ========== LENGTH = 4.928648

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.638869	-103.042009	-0.202832
124.869475	8.942146	1056.724	
0.25000	3.638869	-81.657837	-0.202832
96.758931	9.192068	1170.514	
0.50000	3.638869	-60.273665	-0.202832
68.648386	9.441990	1257.955	
0.75000	3.638869	-38.889493	-0.202832
40.537842	9.691912	1319.048	
1.00000	3.638869	-17.505321	-0.202832
12.427298	9.941834	1353.792	

ELEM 143 ========== LENGTH = 4.927751

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.701647	-17.816292	0.479605
58.949736	10.092004	1353.604	
0.25000	3.701647	3.563987	0.479605
30.844309	9.501161	1362.383	
0.50000	3.701647	24.944266	0.479605
2.738882	8.910318	1344.823	
0.75000	3.701647	46.324545	0.479605
-25.366544	8.319475	1300.924	
1.00000	3.701647	67.704824	0.479605
-53.471971	7.728632	1230.685	

ELEM 144 ========== LENGTH = 4.929075

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.554061	67.403477	1.153629
-6.822841	7.361218	1230.875	
0.25000	3.554061	88.789501	1.153629
-34.935820	5.939637	1134.639	
0.50000	3.554061	110.175525	1.153629
-63.048799	4.518056	1012.050	
0.75000	3.554061	131.561549	1.153629
-91.161778	3.096475	863.107355	
1.00000	3.554061	152.947573	1.153629
-119.274757	1.674895	687.811506	

ELEM 145 ========== LENGTH = 4.927365

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.247745	155.255164	1.840222
-70.349797	0.915488	688.299533	
0.25000	3.247745	176.633771	1.840222

```
-98.453026   -1.351374  483.882275
 0.50000     3.247745  198.012378     1.840222
-126.556255  -3.618235  253.129965
 0.75000     3.247745  219.390984     1.840222
-154.659483  -5.885096    3.957396
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                                      42

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 1.00000    3.247745   240.769591     1.840222
-182.762712  -8.151957 -287.379810

 ELEM      146 ================== LENGTH =     4.928948

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.901263   253.428111     2.331704
-112.121259  -9.016962 -286.548457
 0.25000    2.901263   274.813585     2.331704
-140.233515 -11.890173 -612.007949
 0.50000    2.901263   296.199059     2.331704
-168.345771 -14.763385 -963.819414
 0.75000    2.901263   317.584532     2.331704
-196.458027 -17.636597 -1341.983
 1.00000    2.901263   338.970006     2.331704
-224.570283 -20.509808 -1746.498

 ELEM      147 ================== LENGTH =     4.927537

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.663336   374.494623     2.128292
-99.704357  -21.112491  -1745.713
 0.25000    2.663336   395.873976     2.128292
-127.808567 -23.734301  -2220.216
 0.50000    2.663336   417.253329     2.128292
-155.912776 -26.356111  -2721.055
 0.75000    2.663336   438.632682     2.128292
-184.016986 -28.977921  -3248.231
 1.00000    2.663336   460.012035     2.128292
-212.121196 -31.599732  -3801.744

 ELEM      148 ================== LENGTH =     3.450070

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.708716   524.404030     0.591220
-12.596848  -31.505982  -3801.171
 0.25000    2.708716   539.373020     0.591220
-32.274321  -32.015920  -4259.934
 0.50000    2.708716   554.342009     0.591220
-51.951793  -32.525857  -4731.609
 0.75000    2.708716   569.310999     0.591220
-71.629266  -33.035795  -5216.194
 1.00000    2.708716   584.279989     0.591220
-91.306738  -33.545732  -5713.690

 ELEM      149 ================== LENGTH =     4.927597

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.090151  -637.649602    -1.313183
147.937898  -32.635870  -5713.959
 0.25000    3.090151  -616.269992    -1.313183
119.833350  -31.018160  -4941.608
 0.50000    3.090151  -594.890381    -1.313183
 91.728802  -29.400451  -4195.594
 0.75000    3.090151  -573.510771    -1.313183
 63.624254  -27.782741  -3475.918
 1.00000    3.090151  -552.131160    -1.313183
 35.519706  -26.165031  -2782.579

 ELEM      150 ================== LENGTH =     4.928504

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.833917  -491.409242    -2.392118
226.093437  -24.346061  -2783.314
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                                      43

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000    3.833917  -470.025695    -2.392118
197.983714  -21.398671  -2191.010
 0.50000    3.833917  -448.642148    -2.392118
169.873990  -18.451280  -1625.052
 0.75000    3.833917  -427.258600    -2.392118
141.764267  -15.503889  -1085.442
 1.00000    3.833917  -405.875053    -2.392118
113.654544  -12.556498  -572.179432

 ELEM      151 ================== LENGTH =     4.928619

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.750548  -377.935920    -2.279988
224.404714  -10.314535  -573.156010
 0.25000    4.750548  -356.551875    -2.279988
196.294336   -7.505237  -120.654709
 0.50000    4.750548  -335.167830    -2.279988
168.183958   -4.695939   305.498139
 0.75000    4.750548  -313.783784    -2.279988
140.073581   -1.886641   705.302536
 1.00000    4.750548  -292.399739    -2.279988
111.963203    0.922658  1078.758

 ELEM      152 ================== LENGTH =     4.927865

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.624889  -283.179213    -1.684788
181.331610    3.058801  1077.868
 0.25000    5.624889  -261.798437    -1.684788
153.225530    5.134404  1413.565
 0.50000    5.624889  -240.417661    -1.684788
125.119449    7.210006  1722.921
 0.75000    5.624889  -219.036884    -1.684788
 97.013368    9.285609  2005.938
 1.00000    5.624889  -197.656108    -1.684788
 68.907288   11.361212  2262.613

 ELEM      153 ================== LENGTH =     4.928042

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.279593  -196.588925    -1.196730
122.953736   12.959172  2262.066
 0.25000    6.279593  -175.207381    -1.196730
 94.846647   14.433556  2491.094
 0.50000    6.279593  -153.825838    -1.196730
 66.739557   15.907941  2693.781
 0.75000    6.279593  -132.444294    -1.196730
 38.632468   17.382325  2870.124
 1.00000    6.279593  -111.062751    -1.196730
 10.525379   18.856710  3020.126

 ELEM      154 ================== LENGTH =     4.928632

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.581001  -112.708648    -1.028215
 63.347509   19.598407  3019.888
 0.25000    6.581001   -91.324546    -1.028215
 35.237056   20.865330  3145.589
 0.50000    6.581001   -69.940444    -1.028215
  7.126604   22.132253  3244.940
 0.75000    6.581001   -48.556342    -1.028215
-20.983849   23.399175  3317.944
 1.00000    6.581001   -27.172240    -1.028215
-49.094301   24.666098  3364.599
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                                      44

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM      155 ================== LENGTH =     4.928151

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.459104  -29.728499    -1.018155
  1.163221  24.382465   3364.733
 0.25000    6.459104   -8.346483    -1.018155
-26.944490  25.636871   3388.188
 0.50000    6.459104   13.035534    -1.018155
-55.052202  26.891276   3385.300
 0.75000    6.459104   34.417551    -1.018155
-83.159913  28.145682   3356.068
 1.00000    6.459104   55.799568    -1.018155
-111.267624  29.400088   3300.492

 ELEM      156 ================== LENGTH =     4.927789

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.901702   53.294566    -0.689212
-63.393983  28.061212   3300.997
 0.25000    5.901702   74.675013    -0.689212
-91.499630  28.910285   3222.171
 0.50000    5.901702   96.055459    -0.689212
-119.605277  29.759358  3117.005
 0.75000    5.901702  117.435906    -0.689212
-147.710924  30.608431  2985.500
 1.00000    5.901702  138.816352    -0.689212
-175.816572  31.457504  2827.656

 ELEM      157 ================== LENGTH =     4.928656

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.949642  139.583957     0.523848
-124.191337  29.158542  2828.567
 0.25000    4.949642  160.968163     0.523848
-152.301926  28.513075  2643.402
 0.50000    4.949642  182.352369     0.523848
-180.412516  27.867608  2431.889
 0.75000    4.949642  203.736575     0.523848
-208.523105  27.222141  2194.026
 1.00000    4.949642  225.120782     0.523848
-236.633695  26.576674  1929.815

 ELEM      158 ================== LENGTH =     4.927665

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.704054  237.240212     2.164286
-162.757146  23.532132  1931.016
 0.25000    3.704054  258.620118     2.164286
-190.862083  18.913913  1625.587
 0.50000    3.704054  280.000024     2.164286
-218.967019  18.199695  1293.820
 0.75000    3.704054  301.379930     2.164286
-247.071956  15.533476  935.713869
 1.00000    3.704054  322.759836     2.164286
-275.176892  12.867258  551.269920

 ELEM      159 ================== LENGTH =     1.478494

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    1.747398  360.981361     2.905487
-140.045626   8.388608  552.243102
 0.25000    1.747398  367.396178     2.905487
-148.478218   7.314671  417.630360
 0.50000    1.747398  373.810994     2.905487
-156.910809   6.240735  280.646549
 0.75000    1.747398  380.225811     2.905487
-165.343401   5.166799  141.291672
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                                      45

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 1.00000    1.747398  386.640628     2.905487
-173.775992   4.092862  -0.434272

 ELEM      160 ================== LENGTH =     2.976955

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43669   17.915193  -33.021618    -0.741401
-0.000276  -0.918472  -51.722611
 0.57752   17.915193  -33.021618    -0.741401
-0.000276  -0.607648  -37.878665
 0.71834   17.915193  -33.021618    -0.741401
-0.000276  -0.296824  -24.034719
 0.85917   17.915193  -33.021618    -0.741401
-0.000276   0.014001  -10.190774
 1.00000   17.915193  -33.021618    -0.741401
-0.000276   0.324825   3.653172

 ELEM      161 ================== LENGTH =     2.977880

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   17.233055  -25.739772    -0.658838
 0.000633  -0.275710   3.652995
 0.14086   17.233055  -25.739772    -0.658838
 0.000633   0.000653  14.450059
 0.28172   17.233055  -25.739772    -0.658838
 0.000633   0.277016  25.247123
 0.42259   17.233055  -25.739772    -0.658838
 0.000633   0.553379  36.044187
 0.56345   17.233055  -25.739772    -0.658838
 0.000633   0.829742  46.841251

 ELEM      162 ================== LENGTH =     2.977211

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43665    7.240329  -17.376829    -0.821483
 0.000333  -0.906008  -33.948753
 0.57749    7.240329  -17.376829    -0.821483
 0.000333  -0.561558  -26.662602
 0.71833    7.240329  -17.376829    -0.821483
 0.000333  -0.217108  -19.376451
 0.85916    7.240329  -17.376829    -0.821483
 0.000333   0.127343  -12.090300
 1.00000    7.240329  -17.376829    -0.821483
 0.000333   0.471793   -4.804149

 ELEM      163 ================== LENGTH =     2.977271

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.268101   0.606115    -0.780764
-9.84E-05   -0.451589   4.790743
 0.14084    6.268101   0.606115    -0.780764
-9.84E-05   -0.124201   -5.044898
 0.28168    6.268101   0.606115    -0.780764
-9.84E-05    0.203188   -5.299053
 0.42252    6.268101   0.606115    -0.780764
-9.84E-05    0.530576   -5.553208
 0.56336    6.268101   0.606115    -0.780764
-9.84E-05    0.857964   -5.807363

 ELEM      164 ================== LENGTH =     2.977417

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43662    1.160824   -7.337389    -0.534023
 9.71E-05   -0.604553  -29.432497
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                                      46

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.57747    1.160824   -7.337389    -0.534023
 9.71E-05   -0.380608  -26.355531
 0.71831    1.160824   -7.337389    -0.534023
 9.71E-05   -0.156663  -23.278565
 0.85916    1.160824   -7.337389    -0.534023
 9.71E-05    0.067282  -20.201600
 1.00000    1.160824   -7.337389    -0.534023
 9.71E-05    0.291226  -17.124634

 ELEM      165 ================== LENGTH =     2.977593

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    0.176712    9.965710    -0.560593
-3.68E-05   -0.318005  -17.124585
 0.14085    0.176712    9.965710    -0.560593
-3.68E-05   -0.082893  -21.303986
 0.28170    0.176712    9.965710    -0.560593
-3.68E-05    0.152219  -25.483588
 0.42255    0.176712    9.965710    -0.560593
-3.68E-05    0.387331  -29.663189
 0.56341    0.176712    9.965710    -0.560593
-3.68E-05    0.622443  -33.842791

 ELEM      166 ================== LENGTH =     2.977811

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43656   -0.278480   -5.588574    -0.235204
 5.75E-05  -0.269832  -33.665426
 0.57742   -0.278480   -5.588574    -0.235204
 5.75E-05  -0.145175  -11.921283
 0.71828   -0.278480   -5.588574    -0.235204
 5.75E-05  -0.072518   -28.977139
 0.85914   -0.278480   -5.588574    -0.235204
 5.75E-05   0.026138  -26.632996
 1.00000   -0.278480   -5.588574    -0.235204
 5.75E-05   0.124795  -24.288852

 ELEM      167 ================== LENGTH =     2.976879

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -1.253080   11.773022    -0.283079
-4.85E-05  -0.164887  -24.295182
 0.14083   -1.253080   11.773022    -0.283079
-4.85E-05  -0.046214  -29.230667
 0.28165   -1.253080   11.773022    -0.283079
-4.85E-05   0.072458  -34.166152
 0.42248   -1.253080   11.773022    -0.283079
-4.85E-05   0.191130  -39.101636
 0.56330   -1.253080   11.773022    -0.283079
-4.85E-05   0.309803  -44.037121

 ELEM      168 ================== LENGTH =     2.977174

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43666   -0.080791   -5.451995     0.072414
 1.90E-05   0.077001  -35.904504
 0.57749   -0.080791   -5.451995     0.072414
 1.90E-05   0.046638  -33.618518
 0.71833   -0.080791   -5.451995     0.072414
 1.90E-05   0.016276  -31.332532
 0.85916   -0.080791   -5.451995     0.072414
 1.90E-05  -0.014087  -29.046546
 1.00000   -0.080791   -5.451995     0.072414
 1.90E-05  -0.044450  -26.760561
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                                      47

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM      169 ================== LENGTH =     2.977234

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -1.051082   11.817579     0.035601
 1.01E-05  -0.014085  -26.766527
 0.14084   -1.051082   11.817579     0.035601
 1.01E-05  -0.000843  -31.721738
 0.28168   -1.051082   11.817579     0.035601
 1.01E-05  -0.015770  -36.676949
 0.42251   -1.051082   11.817579     0.035601
 1.01E-05  -0.030698  -41.632161
 0.56335   -1.051082   11.817579     0.035601
 1.01E-05  -0.045626  -46.587372

 ELEM      170 ================== LENGTH =     2.977605

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43659    0.164434   -4.912101     0.340520
-1.55E-05   0.380461  -32.860962
 0.57744    0.164434   -4.912101     0.340520
-1.55E-05   0.237647  -30.800820
 0.71830    0.164434   -4.912101     0.340520
-1.55E-05   0.094832  -28.740678
 0.85915    0.164434   -4.912101     0.340520
-1.55E-05  -0.047982  -26.680536
 1.00000    0.164434   -4.912101     0.340520
-1.55E-05  -0.190797  -24.620394

 ELEM      171 ================== LENGTH =     2.977665

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -0.820142   12.344503     0.322600
 5.93E-05   0.175588  -24.617412
 0.14085   -0.820142   12.344503     0.322600
 5.93E-05   0.040284  -29.794898
 0.28171   -0.820142   12.344503     0.322600
 5.93E-05  -0.095019  -34.972385
 0.42256   -0.820142   12.344503     0.322600
 5.93E-05  -0.230323  -40.149871
 0.56342   -0.820142   12.344503     0.322600
 5.93E-05  -0.365627  -45.327357

 ELEM      172 ================== LENGTH =     2.977120

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43666    0.159502   -5.822264     0.513956
-8.69E-05   0.576807  -27.844541
 0.57750    0.159502   -5.822264     0.513956
-8.69E-05   0.361315  -25.403382
 0.71833    0.159502   -5.822264     0.513956
-8.69E-05   0.145823  -22.962223
 0.85917    0.159502   -5.822264     0.513956
-8.69E-05  -0.069668  -20.521064
 1.00000    0.159502   -5.822264     0.513956
-8.69E-05  -0.285160  -18.079904

 ELEM      173 ================== LENGTH =     2.977276

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -0.866889   11.661197     0.507729
 7.01E-05   0.279503  -18.058373
 0.14084   -0.866889   11.661197     0.507729
 7.01E-05   0.066602  -22.948135
 0.28168   -0.866889   11.661197     0.507729
 7.01E-05  -0.146298  -27.837897
 0.42252   -0.866889   11.661197     0.507729
 7.01E-05  -0.359199  -32.727659
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                                      48

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.56336   -0.866889   11.661197     0.507729
 7.01E-05  -0.572100  -37.617422

 ELEM      174 ================== LENGTH =     2.976802

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43671    0.451402  -12.750796     0.548646
-0.000182   0.616115  -29.748617
 0.57753    0.451402  -12.750796     0.548646
-0.000182   0.386123  -24.403477
 0.71836    0.451402  -12.750796     0.548646
-0.000182   0.156130  -19.058338
 0.85918    0.451402  -12.750796     0.548646
-0.000182  -0.073863  -13.713198
 1.00000    0.451402  -12.750796     0.548646
-0.000182  -0.303855   -8.368059

 ELEM      175 ================== LENGTH =     2.977856

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -0.606221    4.674400     0.536425
 8.35E-06   0.294650   -9.324579
 0.14086   -0.606221    4.674400     0.536425
 8.35E-06   0.069639  -10.285321
 0.28172   -0.606221    4.674400     0.536425
 8.35E-06  -0.155372  -12.246064
 0.42258   -0.606221    4.674400     0.536425
 8.35E-06  -0.380383  -14.206806
 0.56344   -0.606221    4.674400     0.536425
 8.35E-06  -0.605394  -16.167548

 ELEM      176 ================== LENGTH =     2.977458

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43661    1.829877   -29.546219     0.412427
-0.000291   0.463489   -47.621700
 0.57746    1.829877   -29.546219     0.412427
-0.000291   0.290532   -35.231068
 0.71831    1.829877   -29.546219     0.412427
-0.000291   0.117575   -22.840435
 0.85915    1.829877   -29.546219     0.412427
-0.000291  -0.055383   -10.449802
 1.00000    1.829877   -29.546219     0.412427
-0.000291  -0.228340    1.940831

 ELEM      177 ================== LENGTH =     2.977518

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    0.679436   -11.135281     0.386826
-6.68E-09   0.209284    2.008440
 0.14085    0.679436   -11.135281     0.386826
-6.68E-09   0.047058    6.678347
 0.28170    0.679436   -11.135281     0.386826
-6.68E-09  -0.115169   11.348255
 0.42255    0.679436   -11.135281     0.386826
-6.68E-09  -0.277396   16.018162
 0.56339    0.679436   -11.135281     0.386826
-6.68E-09  -0.439622   20.688070

 ELEM      178 ================== LENGTH =     2.977195

 LOAD    AFTER ------------------

 REL DIST          P          V2          V3
        T          M2          M3
 0.43665    3.006198   -40.810969     0.113273
 0.000258   0.120479   -62.940224
Program    SAP2000    Nonlinear    Version    7.42
```

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57749	3.006198	-40.810969	0.113273
0.000258	0.072984	-45.828233	
0.71833	3.006198	-40.810969	0.113273
0.000258	0.025489	-28.716241	
0.85916	3.006198	-40.810969	0.113273
0.000258	-0.022007	-11.604249	
1.00000	3.006198	-40.810969	0.113273
0.000258	-0.069502	5.507743	

ELEM 179 ========== LENGTH = 2.977337

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.993753	-24.894564	0.110055
-0.000249	0.066385	5.576912	
0.14084	1.993753	-24.894564	0.110055
-0.000249	0.020235	16.016053	
0.28168	1.993753	-24.894564	0.110055
-0.000249	-0.025914	26.455195	
0.42253	1.993753	-24.894564	0.110055
-0.000249	-0.072064	36.894337	
0.56337	1.993753	-24.894564	0.110055
-0.000249	-0.118213	47.333478	

ELEM 180 ========== LENGTH = 2.977317

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	2.020691	-31.286848	-0.150928
-3.78E-05	-0.163926	-49.854840	
0.57748	2.020691	-31.286848	-0.150928
-3.78E-05	-0.100638	-36.735353	
0.71832	2.020691	-31.286848	-0.150928
-3.78E-05	-0.037350	-23.615866	
0.85916	2.020691	-31.286848	-0.150928
-3.78E-05	0.025939	-10.496379	
1.00000	2.020691	-31.286848	-0.150928
-3.78E-05	0.089227	2.623108	

ELEM 181 ========== LENGTH = 2.977454

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.100597	-16.641715	-0.136610
0.000293	-0.079988	2.675593	
0.14085	1.100597	-16.641715	-0.136610
0.000293	-0.022698	9.654522	
0.28169	1.100597	-16.641715	-0.136610
0.000293	0.034591	16.633451	
0.42254	1.100597	-16.641715	-0.136610
0.000293	0.091880	23.612380	
0.56339	1.100597	-16.641715	-0.136610
0.000293	0.149169	30.591309	

ELEM 182 ========== LENGTH = 2.977259

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43664	0.603862	-15.769683	-0.345385
0.000295	-0.391790	-32.012663	
0.57748	0.603862	-15.769683	-0.345385
0.000295	-0.246965	-25.400204	
0.71832	0.603862	-15.769683	-0.345385
0.000295	-0.102140	-18.787744	
0.85916	0.603862	-15.769683	-0.345385
0.000295	0.042685	-12.175285	
1.00000	0.603862	-15.769683	-0.345385
0.000295	0.187510	-5.562826	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 183 ========== LENGTH = 2.977319

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.525236	2.546765	-0.346943
-0.000104	-0.189989	-5.501568	
0.14084	-0.525236	2.546765	-0.346943
-0.000104	-0.044506	-6.569502	
0.28168	-0.525236	2.546765	-0.346943
-0.000104	0.100978	-7.637436	
0.42252	-0.525236	2.546765	-0.346943
-0.000104	0.246461	-8.705370	
0.56337	-0.525236	2.546765	-0.346943
-0.000104	0.391944	-9.773304	

ELEM 184 ========== LENGTH = 2.978195

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43651	0.203737	-6.412459	-0.394716
9.09E-05	-0.447053	-27.363138	
0.57738	0.203737	-6.412459	-0.394716
9.09E-05	-0.281450	-24.672799	
0.71825	0.203737	-6.412459	-0.394716
9.09E-05	-0.115848	-21.982461	
0.85913	0.203737	-6.412459	-0.394716
9.09E-05	0.049755	-19.292122	
1.00000	0.203737	-6.412459	-0.394716
9.09E-05	0.215358	-16.601783	

ELEM 185 ========== LENGTH = 2.977259

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.835143	10.949755	-0.411582
-6.09E-05	-0.228719	-16.568979	
0.14084	-0.835143	10.949755	-0.411582
-6.09E-05	-0.056137	-21.180372	
0.28168	-0.835143	10.949755	-0.411582
-6.09E-05	0.116446	-25.751766	
0.42252	-0.835143	10.949755	-0.411582
-6.09E-05	0.289028	-30.343159	
0.56336	-0.835143	10.949755	-0.411582
-6.09E-05	0.461611	-34.934552	

ELEM 186 ========== LENGTH = 2.977215

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	0.496980	-4.677888	-0.304456
5.53E-05	-0.344993	-32.659584	
0.57749	0.496980	-4.677888	-0.304456
5.53E-05	-0.217333	-30.698128	
0.71832	0.496980	-4.677888	-0.304456
5.53E-05	-0.089674	-28.736672	
0.85916	0.496980	-4.677888	-0.304456
5.53E-05	0.037986	-26.775216	
1.00000	0.496980	-4.677888	-0.304456
5.53E-05	0.165646	-24.813760	

ELEM 187 ========== LENGTH = 2.977338

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.509391	12.632288	-0.320824
-0.000102	-0.178511	-24.797981	
0.14084	-0.509391	12.632288	-0.320824
-0.000102	-0.043978	-30.095135	
0.28168	-0.509391	12.632288	-0.320824
-0.000102	0.090554	-35.392289	
0.42253	-0.509391	12.632288	-0.320824
-0.000102	0.225087	-40.689443	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.56337	-0.509391	12.632288	-0.320824
-0.000102	0.359620	-45.986597	

ELEM 188 ========== LENGTH = 2.977307

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43664	0.792107	-5.446124	-0.109957
8.13E-07	-0.124680	-38.256401	
0.57748	0.792107	-5.446124	-0.109957
8.13E-07	-0.078572	-35.972696	
0.71832	0.792107	-5.446124	-0.109957
8.13E-07	-0.032464	-33.688990	
0.85916	0.792107	-5.446124	-0.109957
8.13E-07	0.013644	-31.405285	
1.00000	0.792107	-5.446124	-0.109957
8.13E-07	0.059752	-29.121579	

ELEM 189 ========== LENGTH = 2.977425

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192455	11.781206	-0.118122
-2.89E-05	-0.066227	-29.116233	
0.14085	-0.192455	11.781206	-0.118122
-2.89E-05	-0.016691	-34.056755	
0.28169	-0.192455	11.781206	-0.118122
-2.89E-05	0.032844	-38.997277	
0.42254	-0.192455	11.781206	-0.118122
-2.89E-05	0.082380	-43.937799	
0.56338	-0.192455	11.781206	-0.118122
-2.89E-05	0.131915	-48.878322	

ELEM 190 ========== LENGTH = 2.977528

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43660	0.801430	-5.484976	0.119741
-4.13E-06	0.134718	-38.247286	
0.57745	0.801430	-5.484976	0.119741
-4.13E-06	0.084501	-35.946986	
0.71830	0.801430	-5.484976	0.119741
-4.13E-06	0.034284	-33.646686	
0.85915	0.801430	-5.484976	0.119741
-4.13E-06	-0.015934	-31.346386	
1.00000	0.801430	-5.484976	0.119741
-4.13E-06	-0.066151	-29.046086	

ELEM 191 ========== LENGTH = 2.976591

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.183363	11.750042	0.122314
3.14E-05	0.067864	-29.041237	
0.14081	-0.183363	11.750042	0.122314
3.14E-05	0.018536	-34.966241	
0.28163	-0.183363	11.750042	0.122314
3.14E-05	-0.034671	-38.891245	
0.42244	-0.183363	11.750042	0.122314
3.14E-05	-0.085939	-43.816248	
0.56326	-0.183363	11.750042	0.122314
3.14E-05	-0.137206	-48.741252	

ELEM 192 ========== LENGTH = 2.976770

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.517289	-4.788835	0.318461
-5.62E-05	0.359545	-32.643319	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57754	0.517289	-4.788835	0.318461
-5.62E-05	0.226048	-30.635876	
0.71836	0.517289	-4.788835	0.318461
-5.62E-05	0.092552	-28.628433	
0.85918	0.517289	-4.788835	0.318461
-5.62E-05	-0.040944	-26.620990	
1.00000	0.517289	-4.788835	0.318461
-5.62E-05	-0.174441	-24.613546	

ELEM 193 ========== LENGTH = 2.977779

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.486155	12.495503	0.328203
9.91E-05	0.181922	-24.598315	
0.14086	-0.486155	12.495503	0.328203
9.91E-05	0.044259	-29.839487	
0.28172	-0.486155	12.495503	0.328203
9.91E-05	-0.093404	-35.080660	
0.42257	-0.486155	12.495503	0.328203
9.91E-05	-0.231067	-40.321832	
0.56343	-0.486155	12.495503	0.328203
9.91E-05	-0.368730	-45.563004	

ELEM 194 ========== LENGTH = 2.978081

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43652	0.175388	-6.688024	0.414763
-9.90E-05	0.468507	-27.502345	
0.57739	0.175388	-6.688024	0.414763
-9.90E-05	0.294505	-24.696583	
0.71826	0.175388	-6.688024	0.414763
-9.90E-05	0.120504	-21.890821	
0.85913	0.175388	-6.688024	0.414763
-9.90E-05	-0.053498	-19.085059	
1.00000	0.175388	-6.688024	0.414763
-9.90E-05	-0.227499	-16.279297	

ELEM 195 ========== LENGTH = 2.977144

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.864975	10.731595	0.426411
6.33E-05	0.236279	-16.247653	
0.14083	-0.864975	10.731595	0.426411
6.33E-05	0.057491	-20.747260	
0.28167	-0.864975	10.731595	0.426411
6.33E-05	-0.121297	-25.246867	
0.42250	-0.864975	10.731595	0.426411
6.33E-05	-0.300085	-29.746475	
0.56334	-0.864975	10.731595	0.426411
6.33E-05	-0.478873	-34.246082	

ELEM 196 ========== LENGTH = 2.977474

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.350282	-15.839474	0.373284
-0.000274	0.422242	-31.903420	
0.57746	0.350282	-15.839474	0.373284
-0.000274	0.265698	-25.260843	
0.71831	0.350282	-15.839474	0.373284
-0.000274	0.109155	-18.618265	
0.85915	0.350282	-15.839474	0.373284
-0.000274	-0.047389	-11.975688	
1.00000	0.350282	-15.839474	0.373284
-0.000274	-0.203933	-5.333110	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 197 ========== LENGTH = 2.977534

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.764442	2.269293	0.371514
8.04E-05	0.203077	-5.276968	
0.14085	-0.764442	2.269293	0.371514
8.04E-05	0.047270	-6.228672	
0.28170	-0.764442	2.269293	0.371514
8.04E-05	-0.108536	-7.180376	
0.42255	-0.764442	2.269293	0.371514
8.04E-05	-0.264343	-8.132080	
0.56340	-0.764442	2.269293	0.371514
8.04E-05	-0.420150	-9.083785	

ELEM 198 ========== LENGTH = 2.976943

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43669	1.352484	-30.994538	0.192931
-2.95E-05	0.208409	-48.603702	
0.57752	1.352484	-30.994538	0.192931
-2.95E-05	0.127525	-35.609686	
0.71834	1.352484	-30.994538	0.192931
-2.95E-05	0.046642	-22.615669	
0.85917	1.352484	-30.994538	0.192931
-2.95E-05	-0.034242	-9.621653	
1.00000	1.352484	-30.994538	0.192931
-2.95E-05	-0.115125	3.372363	

ELEM 199 ========== LENGTH = 2.977036

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.378157	-15.224000	0.176316
-0.000217	0.103130	3.429775	
0.14083	0.378157	-15.224000	0.176316
-0.000217	0.029208	9.812573	
0.28166	0.378157	-15.224000	0.176316
-0.000217	-0.044714	16.195371	
0.42249	0.378157	-15.224000	0.176316
-0.000217	-0.118636	22.578170	
0.56332	0.378157	-15.224000	0.176316
-0.000217	-0.192558	28.960968	

ELEM 200 ========== LENGTH = 2.977628

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	1.901086	-36.596905	-0.061532
-1.00E-06	-0.065018	-57.162430	
0.57744	1.901086	-36.596905	-0.061532
-1.00E-06	-0.039211	-41.833431	
0.71829	1.901086	-36.596905	-0.061532
-1.00E-06	-0.013404	-26.484431	
0.85915	1.901086	-36.596905	-0.061532
-1.00E-06	0.012403	-11.135432	
1.00000	1.901086	-36.596905	-0.061532
-1.00E-06	0.038210	4.213567	

ELEM 201 ========== LENGTH = 2.977688

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.105588	-24.912917	-0.065759
6.63E-06	-0.041701	4.255248	
0.14085	1.105588	-24.912917	-0.065759
6.63E-06	-0.014121	14.704274	
0.28171	1.105588	-24.912917	-0.065759
6.63E-06	0.013460	25.153299	
0.42256	1.105588	-24.912917	-0.065759
6.63E-06	0.041041	35.602325	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.56342	1.105588	-24.912917	-0.065759
6.63E-06	0.068621	46.051350	

ELEM 202 ========== LENGTH = 2.977323

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.344730	-30.982638	-0.307934
2.70E-05	-0.333789	-48.537353	
0.57748	1.344730	-30.982638	-0.307934
2.70E-05	-0.204663	-35.545378	
0.71832	1.344730	-30.982638	-0.307934
2.70E-05	-0.075536	-22.553403	
0.85916	1.344730	-30.982638	-0.307934
2.70E-05	0.053590	-9.561428	
1.00000	1.344730	-30.982638	-0.307934
2.70E-05	0.182716	3.430547	

ELEM 203 ========== LENGTH = 2.977409

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.392467	-15.200973	-0.299010
0.000230	-0.177058	3.488288	
0.14084	0.392467	-15.200973	-0.299010
0.000230	-0.051667	9.862851	
0.28169	0.392467	-15.200973	-0.299010
0.000230	0.073724	16.237415	
0.42253	0.392467	-15.200973	-0.299010
0.000230	0.199114	22.611978	
0.56338	0.392467	-15.200973	-0.299010
0.000230	0.324505	28.986541	

ELEM 204 ========== LENGTH = 2.976994

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43668	0.350819	-15.879468	-0.477797
0.000274	-0.540008	-31.908064	
0.57751	0.350819	-15.879468	-0.477797
0.000274	-0.339692	-25.250620	
0.71834	0.350819	-15.879468	-0.477797
0.000274	-0.139377	-18.593176	
0.85917	0.350819	-15.879468	-0.477797
0.000274	0.060939	-11.935733	
1.00000	0.350819	-15.879468	-0.477797
0.000274	0.261255	-5.278289	

ELEM 205 ========== LENGTH = 2.977033

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.763301	2.220202	-0.482856
-6.83E-05	-0.266024	-5.223469	
0.14083	-0.763301	2.220202	-0.482856
-6.83E-05	-0.063583	-6.154307	
0.28166	-0.763301	2.220202	-0.482856
-6.83E-05	0.138859	-7.085145	
0.42249	-0.763301	2.220202	-0.482856
-6.83E-05	0.341300	-8.015983	
0.56332	-0.763301	2.220202	-0.482856
-6.83E-05	0.543741	-8.946822	

ELEM 206 ========== LENGTH = 2.977713

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	0.178315	-6.770334	-0.511835
9.26E-05	-0.577868	-27.515401	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57743	0.178315	-6.770334	-0.511835
9.26E-05	-0.363190	-24.675732	
0.71829	0.178315	-6.770334	-0.511835
9.26E-05	-0.148512	-21.836063	
0.85914	0.178315	-6.770334	-0.511835
9.26E-05	0.066166	-18.996394	
1.00000	0.178315	-6.770334	-0.511835
9.26E-05	0.280844	-16.156726	

ELEM 207 ========== LENGTH = 2.976758

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.866205	10.765677	-0.529892
-4.63E-05	-0.294837	-16.127062	
0.14082	-0.866205	10.765677	-0.529892
-4.63E-05	-0.072712	-20.639922	
0.28164	-0.866205	10.765677	-0.529892
-4.63E-05	0.149413	-25.152782	
0.42246	-0.866205	10.765677	-0.529892
-4.63E-05	0.371538	-29.665642	
0.56328	-0.866205	10.765677	-0.529892
-4.63E-05	0.593663	-34.178502	

ELEM 208 ========== LENGTH = 2.977509

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.519013	-4.762524	-0.395488
6.30E-05	-0.447096	-32.679769	
0.57745	0.519013	-4.762524	-0.395488
6.30E-05	-0.281238	-30.682476	
0.71830	0.519013	-4.762524	-0.395488
6.30E-05	-0.115380	-28.685182	
0.85915	0.519013	-4.762524	-0.395488
6.30E-05	0.050479	-26.687889	
1.00000	0.519013	-4.762524	-0.395488
6.30E-05	0.216337	-24.690595	

ELEM 209 ========== LENGTH = 2.977568

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.474305	12.464113	-0.411520
-9.94E-05	-0.228798	-24.681053	
0.14085	-0.474305	12.464113	-0.411520
-9.94E-05	-0.056210	-29.908403	
0.28170	-0.474305	12.464113	-0.411520
-9.94E-05	0.116378	-35.135754	
0.42255	-0.474305	12.464113	-0.411520
-9.94E-05	0.288967	-40.363104	
0.56340	-0.474305	12.464113	-0.411520
-9.94E-05	0.461555	-45.590455	

ELEM 210 ========== LENGTH = 2.977386

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43662	0.823532	-5.533489	-0.159618
3.30E-06	-0.179997	-38.510645	
0.57747	0.823532	-5.533489	-0.159618
3.30E-06	-0.113062	-36.190196	
0.71831	0.823532	-5.533489	-0.159618
3.30E-06	-0.046127	-33.869746	
0.85916	0.823532	-5.533489	-0.159618
3.30E-06	0.020808	-31.549297	
1.00000	0.823532	-5.533489	-0.159618
3.30E-06	0.087744	-29.228847	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 211 ========== LENGTH =

```
=     2.977440

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.148315   11.655563   -0.166256
-2.52E-05   -0.092915   -29.231256
 0.14085   -0.148315   11.655563   -0.166256
-2.52E-05   -0.023194   -34.119133
 0.28169   -0.148315   11.655563   -0.166256
-2.52E-05   -0.048527   -39.007010
 0.42254   -0.148315   11.655563   -0.166256
-2.52E-05    0.116248   -43.894886
 0.56338   -0.148315   11.655563   -0.166256
-2.52E-05    0.185969   -48.782763

ELEM      212 ================== LENGTH
=     2.977327

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43663    0.816280   -5.550329    0.116918
-2.36E-06    0.131869   -38.542094
 0.57747    0.816280   -5.550329    0.116918
-2.36E-06    0.082641   -36.214665
 0.71832    0.816280   -5.550329    0.116918
-2.36E-06    0.033814   -33.887236
 0.85916    0.816280   -5.550329    0.116918
-2.36E-06   -0.015213   -31.559806
 1.00000    0.816280   -5.550329    0.116918
-2.36E-06   -0.064241   -29.232377

ELEM      213 ================== LENGTH
=     2.977387

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.154495   11.637127    0.121771
 3.04E-05    0.067937   -29.235575
 0.14084   -0.154495   11.637127    0.121771
 3.04E-05    0.018673   -34.115567
 0.28169   -0.154495   11.637127    0.121771
 3.04E-05   -0.034192   -38.995558
 0.42253   -0.154495   11.637127    0.121771
 3.04E-05   -0.085256   -43.875550
 0.56338   -0.154495   11.637127    0.121771
 3.04E-05   -0.136320   -48.755541

ELEM      214 ================== LENGTH
=     2.977350

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43663    0.515998   -4.761428    0.360453
-6.37E-05    0.407600   -32.700962
 0.57747    0.515998   -4.761428    0.360453
-6.37E-05    0.256449   -30.704317
 0.71831    0.515998   -4.761428    0.360453
-6.37E-05    0.105297   -28.707672
 0.85916    0.515998   -4.761428    0.360453
-6.37E-05   -0.045854   -26.711027
 1.00000    0.515998   -4.761428    0.360453
-6.37E-05   -0.197006   -24.714382

ELEM      215 ================== LENGTH
=     2.977410

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.473120   12.432251    0.374583
 0.000104    0.20795   -24.707258
 0.14084   -0.473120   12.432251    0.374583
 0.000104    0.050832   -29.920753
 0.28169   -0.473120   12.432251    0.374583
 0.000104   -0.106250   -35.134247
 0.42253   -0.473120   12.432251    0.374583
 0.000104   -0.263333   -40.347742
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                      Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                        57

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
          T           M2           M3
 0.56338   -0.473120   12.432251    0.374583
 0.000104   -0.420415   -45.561237

ELEM      216 ================== LENGTH
=     2.977439

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43662    0.191351   -6.818029    0.489889
-9.30E-05    0.552830   -27.601577
 0.57746    0.191351   -6.818029    0.489889
-9.30E-05    0.347390   -24.742370
 0.71831    0.191351   -6.818029    0.489889
-9.30E-05    0.141950   -21.883163
 0.85915    0.191351   -6.818029    0.489889
-9.30E-05   -0.063489   -19.023956
 1.00000    0.191351   -6.818029    0.489889
-9.30E-05   -0.268929   -16.164749

ELEM      217 ================== LENGTH
=     2.977508

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.850475   10.736949    0.504614
 4.74E-05    0.280548   -16.136400
 0.14085   -0.850475   10.736949    0.504614
 4.74E-05    0.068924   -20.639230
 0.28170   -0.850475   10.736949    0.504614
 4.74E-05   -0.142699   -25.142059
 0.42254   -0.850475   10.736949    0.504614
 4.74E-05   -0.354323   -29.644889
 0.56339   -0.850475   10.736949    0.504614
 4.74E-05   -0.565946   -34.147718

ELEM      218 ================== LENGTH
=     2.977622

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43659    0.394113   -15.917577    0.471211
-0.000275    0.532415   -32.019736
 0.57744    0.394113   -15.917577    0.471211
-0.000275    0.344786   -25.343817
 0.71830    0.394113   -15.917577    0.471211
-0.000275    0.137158   -18.667898
 0.85915    0.394113   -15.917577    0.471211
-0.000275   -0.060471   -11.991980
 1.00000    0.394113   -15.917577    0.471211
-0.000275   -0.258099   -5.316061

ELEM      219 ================== LENGTH
=     2.977668

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.714072    2.154019    0.473943
 6.73E-05    0.260985   -5.264780
 0.14085   -0.714072    2.154019    0.473943
 6.73E-05    0.062205   -6.168212
 0.28171   -0.714072    2.154019    0.473943
 6.73E-05   -0.136575   -7.071645
 0.42256   -0.714072    2.154019    0.473943
 6.73E-05   -0.335354   -7.975077
 0.56342   -0.714072    2.154019    0.473943
 6.73E-05   -0.534134   -8.878509

ELEM      220 ================== LENGTH
=     2.977852

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43656    1.416246   -31.021983    0.321248
-2.91E-05    0.348153   -48.669764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                      Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                        58

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
          T           M2           M3
 0.57742    1.416246   -31.021983    0.321248
-2.91E-05    0.213401   -35.657188
 0.71828    1.416246   -31.021983    0.321248
-2.91E-05    0.078649   -22.644612
 0.85914    1.416246   -31.021983    0.321248
-2.91E-05   -0.056102   -9.632036
 1.00000    1.416246   -31.021983    0.321248
-2.91E-05   -0.190854    3.380540

ELEM      221 ================== LENGTH
=     2.976914

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000    0.472395   -15.252679    0.310613
-0.000235    0.183596    3.429411
 0.14083    0.472395   -15.252679    0.310613
-0.000235    0.053378    9.823770
 0.28165    0.472395   -15.252679    0.310613
-0.000235   -0.076840   16.218128
 0.42248    0.472395   -15.252679    0.310613
-0.000235   -0.207058   22.612486
 0.56331    0.472395   -15.252679    0.310613
-0.000235   -0.337276   29.006845

ELEM      222 ================== LENGTH
=     2.977081

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43667    1.988554   -36.559641    0.091611
-1.41E-06    0.096335   -57.196870
 0.57750    1.988554   -36.559641    0.091611
-1.41E-06    0.057925   -41.868496
 0.71833    1.988554   -36.559641    0.091611
-1.41E-06    0.019516   -26.540122
 0.85917    1.988554   -36.559641    0.091611
-1.41E-06   -0.018894   -11.211748
 1.00000    1.988554   -36.559641    0.091611
-1.41E-06   -0.057304    4.116627

ELEM      223 ================== LENGTH
=     2.978117

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000    1.200353   -24.914260    0.093302
-1.33E-05    0.058716   -4.162267
 0.14087    1.200353   -24.914260    0.093302
-1.33E-05    0.019573   14.614528
 0.28174    1.200353   -24.914260    0.093302
-1.33E-05   -0.019570   25.066789
 0.42261    1.200353   -24.914260    0.093302
-1.33E-05   -0.058712   35.519050
 0.56348    1.200353   -24.914260    0.093302
-1.33E-05   -0.097855   45.971311

ELEM      224 ================== LENGTH
=     2.977323

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43663    1.435990   -31.106224   -0.151893
 2.67E-05   -0.164224   -48.851625
 0.57748    1.435990   -31.106224   -0.151893
 2.67E-05   -0.100531   -35.807827
 0.71832    1.435990   -31.106224   -0.151893
 2.67E-05   -0.036837   -22.764028
 0.85916    1.435990   -31.106224   -0.151893
 2.67E-05    0.026856   -9.720230
 1.00000    1.435990   -31.106224   -0.151893
 2.67E-05    0.090549    3.323569
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                      Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                        59

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      225 ================== LENGTH
=     2.977383

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000    0.459792   -15.357169   -0.136799
 0.000209   -0.079892    3.373587
 0.14084    0.459792   -15.357169   -0.136799
 0.000209   -0.023226    9.813551
 0.28169    0.459792   -15.357169   -0.136799
 0.000209    0.034840   16.253516
 0.42253    0.459792   -15.357169   -0.136799
 0.000209    0.092206   22.693480
 0.56337    0.459792   -15.357169   -0.136799
 0.000209    0.149573   29.133445

ELEM      226 ================== LENGTH
=     2.977749

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43657    0.389890   -15.934850   -0.322883
 0.000272   -0.365849   -32.116797
 0.57743    0.389890   -15.934850   -0.322883
 0.000272   -0.230420   -25.433127
 0.71829    0.389890   -15.934850   -0.322883
 0.000272   -0.094991   -18.749457
 0.85914    0.389890   -15.934850   -0.322883
 0.000272    0.040438   -12.065788
 1.00000    0.389890   -15.934850   -0.322883
 0.000272    0.175867   -5.382118

ELEM      227 ================== LENGTH
=     2.977809

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.721074    2.148543   -0.322157
-9.00E-05   -0.175983   -5.327795
 0.14086   -0.721074    2.148543   -0.322157
-9.00E-05   -0.040854   -6.229006
 0.28172   -0.721074    2.148543   -0.322157
-9.00E-05    0.094276   -7.130217
 0.42258   -0.721074    2.148543   -0.322157
-9.00E-05    0.229405   -8.031429
 0.56344   -0.721074    2.148543   -0.322157
-9.00E-05    0.364534   -8.932640

ELEM      228 ================== LENGTH
=     2.977253

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43664    0.196820   -6.770072   -0.361723
 9.54E-05   -0.409030   -27.667674
 0.57748    0.196820   -6.770072   -0.361723
 9.54E-05   -0.257355   -24.828894
 0.71832    0.196820   -6.770072   -0.361723
 9.54E-05   -0.105680   -21.990114
 0.85916    0.196820   -6.770072   -0.361723
 9.54E-05    0.045996   -19.151334
 1.00000    0.196820   -6.770072   -0.361723
 9.54E-05    0.197671   -16.312554

ELEM      229 ================== LENGTH
=     2.977313

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.846635   10.696614   -0.373879
-7.12E-05   -0.207205   -16.279458
 0.14084   -0.846635   10.696614   -0.373879
-7.12E-05   -0.050427   -20.764849
 0.28168   -0.846635   10.696614   -0.373879
-7.12E-05    0.106351   -25.250240
 0.42252   -0.846635   10.696614   -0.373879
-7.12E-05    0.263128   -29.735631
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                      Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                        60

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
          T           M2           M3
 0.56336   -0.846635   10.696614   -0.373879
-7.12E-05    0.419906   -34.221022

ELEM      230 ================== LENGTH
=     2.976832

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43671    0.565125   -4.750907   -0.269450
 6.09E-05   -0.305091   -32.807949
 0.57753    0.565125   -4.750907   -0.269450
 6.09E-05   -0.192136   -30.816331
 0.71835    0.565125   -4.750907   -0.269450
 6.09E-05   -0.079180   -28.824713
 0.85918    0.565125   -4.750907   -0.269450
 6.09E-05    0.033775   -26.833094
 1.00001    0.565125   -4.750907   -0.269450
 6.09E-05    0.146731   -24.841476

ELEM      231 ================== LENGTH
=     2.977849

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.437812   12.494536   -0.281900
-0.000114   -0.156399   -24.825681
 0.14086   -0.437812   12.494536   -0.281900
-0.000114   -0.038153   -30.066665
 0.28172   -0.437812   12.494536   -0.281900
-0.000114    0.080093   -35.307650
 0.42258   -0.437812   12.494536   -0.281900
-0.000114    0.198339   -40.548635
 0.56344   -0.437812   12.494536   -0.281900
-0.000114    0.316585   -45.789619

ELEM      232 ================== LENGTH
=     2.977485

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43661    0.935869   -5.443849   -0.082467
 4.67E-06   -0.093087   -38.555807
 0.57746    0.935869   -5.443849   -0.082467
 4.67E-06   -0.058502   -36.272813
 0.71831    0.935869   -5.443849   -0.082467
 4.67E-06   -0.023918   -33.989820
 0.85915    0.935869   -5.443849   -0.082467
 4.67E-06    0.010667   -31.706827
 1.00000    0.935869   -5.443849   -0.082467
 4.67E-06    0.045251   -29.423834

ELEM      233 ================== LENGTH
=     2.977499

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.050466   11.754582   -0.088316
-3.38E-05   -0.049682   -29.415806
 0.14085   -0.050466   11.754582   -0.088316
-3.38E-05   -0.012644   -34.345380
 0.28170   -0.050466   11.754582   -0.088316
-3.38E-05    0.024394   -39.274954
 0.42254   -0.050466   11.754582   -0.088316
-3.38E-05    0.061431   -44.204527
 0.56339   -0.050466   11.754582   -0.088316
-3.38E-05    0.098469   -49.134101

ELEM      234 ================== LENGTH
=     2.977215

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43665    1.013411   -5.270099    0.121519
 2.11E-06    0.137689   -38.321866
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                      Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                        61

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
          T           M2           M3
 0.57749    1.013411   -5.270099    0.121519
 2.11E-06    0.086736   -36.112093
 0.71832    1.013411   -5.270099    0.121519
 2.11E-06    0.035782   -33.902320
 0.85916    1.013411   -5.270099    0.121519
 2.11E-06   -0.015171   -31.692547
 1.00000    1.013411   -5.270099    0.121519
 2.11E-06   -0.066125   -29.482774

ELEM      235 ================== LENGTH
=     2.977225

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000    0.022938   11.919476    0.125563
 3.39E-05    0.069206   -29.472169
 0.14084    0.022938   11.919476    0.125563
 3.39E-05    0.016557   -34.470079
 0.28168    0.022938   11.919476    0.125563
 3.39E-05   -0.036092   -39.467989
 0.42251    0.022938   11.919476    0.125563
 3.39E-05   -0.088741   -44.465898
 0.56335    0.022938   11.919476    0.125563
 3.39E-05   -0.141391   -49.463808

ELEM      236 ================== LENGTH
=     2.976966

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43669    0.662005   -4.315227    0.269582
-5.79E-05    0.306075   -32.161563
 0.57751    0.662005   -4.315227    0.269582
-5.79E-05    0.193055   -30.352440
 0.71834    0.662005   -4.315227    0.269582
-5.79E-05    0.080035   -28.543318
 0.85917    0.662005   -4.315227    0.269582
-5.79E-05   -0.032985   -26.734195
 1.00000    0.662005   -4.315227    0.269582
-5.79E-05   -0.146005   -24.925072

ELEM      237 ================== LENGTH
=     2.978023

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -0.363133   13.103051    0.282910
 0.000122    0.156188   -24.898902
 0.14087   -0.363133   13.103051    0.282910
 0.000122    0.037505   -30.395707
 0.28173   -0.363133   13.103051    0.282910
 0.000122   -0.081177   -35.892513
 0.42260   -0.363133   13.103051    0.282910
 0.000122   -0.199859   -41.389318
 0.56347   -0.363133   13.103051    0.282910
 0.000122   -0.318542   -46.886123

ELEM      238 ================== LENGTH
=     2.977840

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43656   -0.137994   -5.832211    0.294181
-8.53E-05    0.334960   -26.427360
 0.57742   -0.137994   -5.832211    0.294181
-8.53E-05    0.211563   -23.980980
 0.71828   -0.137994   -5.832211    0.294181
-8.53E-05    0.088166   -21.534600
 0.85914   -0.137994   -5.832211    0.294181
-8.53E-05   -0.035232   -19.088220
 1.00000   -0.137994   -5.832211    0.294181
-8.53E-05   -0.158629   -16.641840
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                      Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                        62

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      239 ================== LENGTH
=     2.976904

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -1.190850   11.505915    0.315172
 7.17E-05    0.174219   -16.599164
 0.14083   -1.190850   11.505915    0.315172
 7.17E-05    0.042091   -21.422743
 0.28165   -1.190850   11.505915    0.315172
 7.17E-05   -0.090037   -26.246322
 0.42248   -1.190850   11.505915    0.315172
 7.17E-05   -0.222165   -31.069901
 0.56330   -1.190850   11.505915    0.315172
 7.17E-05   -0.354293   -35.893480

ELEM      240 ================== LENGTH
=     2.976798

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43671   -1.153909   -15.278305    0.169963
-0.000300    0.196454   -31.328847
 0.57753   -1.153909   -15.278305    0.169963
-0.000300    0.125205   -24.924189
 0.71836   -1.153909   -15.278305    0.169963
-0.000300    0.053957   -18.519532
 0.85918   -1.153909   -15.278305    0.169963
-0.000300   -0.017291   -12.114875
 1.00000   -1.153909   -15.278305    0.169963
-0.000300   -0.088540   -5.710218

ELEM      241 ================== LENGTH
=     2.977854

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -2.302121    3.113124    0.187844
 0.000118    0.101952   -5.639081
 0.14086   -2.302121    3.113124    0.187844
 0.000118    0.023159   -6.944922
 0.28172   -2.302121    3.113124    0.187844
 0.000118   -0.055635   -8.250764
 0.42258   -2.302121    3.113124    0.187844
 0.000118   -0.134429   -9.556605
 0.56344   -2.302121    3.113124    0.187844
 0.000118   -0.213223   -10.862447

ELEM      242 ================== LENGTH
=     2.976827

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.43671   -1.968163   -31.152967   -0.116876
 3.53E-05   -0.124561   -50.330311
 0.57753   -1.968163   -31.152967   -0.116876
 3.53E-05   -0.075566   -37.270775
 0.71835   -1.968163   -31.152967   -0.116876
 3.53E-05   -0.026571   -24.211238
 0.85918   -1.968163   -31.152967   -0.116876
 3.53E-05    0.022424   -11.151701
 1.00000   -1.968163   -31.152967   -0.116876
 3.53E-05    0.071419    1.907835

ELEM      243 ================== LENGTH
=     2.977883

 LOAD    AFTER ------------------

 REL DIST            P            V2           V3
          T           M2           M3
 0.00000   -2.956897   -16.529682   -0.111491
-0.000293   -0.067446    1.974791
 0.14086   -2.956897   -16.529682   -0.111491
-0.000293   -0.020678    8.908509
 0.28172   -2.956897   -16.529682   -0.111491
-0.000293    0.026089   15.842227
 0.42259   -2.956897   -16.529682   -0.111491
-0.000293    0.072856   22.775945
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                      Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                        63

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
          T           M2           M3
 0.56345   -2.956897   -16.529682   -0.111491
-0.000293    0.119623   29.709663

ELEM      244 ================== LENGTH
```

```
=     2.977553

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43660   -2.066283   -41.207250   -0.418294
-0.000274   -0.450784   -64.987629
 0.57745   -2.066283   -41.207250   -0.418294
-0.000274   -0.275356   -47.705794
 0.71830   -2.066283   -41.207250   -0.418294
-0.000274   -0.099928   -30.424359
 0.85915   -2.066283   -41.207250   -0.418294
-0.000274    0.075500   -13.142124
 1.00000   -2.066283   -41.207250   -0.418294
-0.000274    0.250927    4.139711

ELEM       245 ================== LENGTH
=     2.977613

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -3.043736   -25.138889   -0.424043
 0.000255   -0.257342    4.213408
 0.14085   -3.043736   -25.138889   -0.424043
 0.000255   -0.077497   14.756739
 0.28170   -3.043736   -25.138889   -0.424043
 0.000255    0.100348   25.300070
 0.42256   -3.043736   -25.138889   -0.424043
 0.000255    0.278193   35.843400
 0.56341   -3.043736   -25.138889   -0.424043
 0.000255    0.456038   46.386731

ELEM       246 ================== LENGTH
=     2.977709

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43658   -1.675234   -29.393395   -0.737296
 0.000259   -0.831220   -48.776230
 0.57743   -1.675234   -29.393395   -0.737296
 0.000259   -0.521977   -36.447842
 0.71829   -1.675234   -29.393395   -0.737296
 0.000259   -0.212735   -24.119454
 0.85914   -1.675234   -29.393395   -0.737296
 0.000259    0.096507   -11.791066
 1.00000   -1.675234   -29.393395   -0.737296
 0.000259    0.405749    0.537323

ELEM       247 ================== LENGTH
=     2.977769

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -2.840683   -10.963311   -0.754444
 1.60E-05   -0.418566    0.616130
 0.14086   -2.840683   -10.963311   -0.754444
 1.60E-05   -0.102120    5.214605
 0.28172   -2.840683   -10.963311   -0.754444
 1.60E-05    0.214326    9.813080
 0.42257   -2.840683   -10.963311   -0.754444
 1.60E-05    0.530771   14.411554
 0.56343   -2.840683   -10.963311   -0.754444
 1.60E-05    0.847217   19.010029

ELEM       248 ================== LENGTH
=     2.976946

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43669   -0.882789   -12.345538   -0.919614
 0.000155   -1.034125   -31.113504
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      64

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
          T          M2          M3
 0.57752   -0.882789   -12.345538   -0.919614
 0.000155   -0.648589   -25.955805
 0.71834   -0.882789   -12.345538   -0.919614
 0.000155   -0.263054   -20.780105
 0.85917   -0.882789   -12.345538   -0.919614
 0.000155    0.122482   -15.604406
 1.00000   -0.882789   -12.345538   -0.919614
 0.000155    0.508018   -10.428707

ELEM       249 ================== LENGTH
=     2.977006

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.949950    5.143460   -0.942503
-1.16E-05   -0.524845   -10.380926
 0.14083   -1.949950    5.143460   -0.942503
-1.16E-05   -0.129699   -12.537328
 0.28166   -1.949950    5.143460   -0.942503
-1.16E-05    0.265446   -14.693731
 0.42249   -1.949950    5.143460   -0.942503
-1.16E-05    0.660592   -16.850134
 0.56332   -1.949950    5.143460   -0.942503
-1.16E-05    1.055738   -19.006537

ELEM       250 ================== LENGTH
=     2.977165

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43666    0.090316   -5.608459   -0.900924
 5.35E-05   -1.011819   -30.726151
 0.57749    0.090316   -5.608459   -0.900924
 5.35E-05   -0.634070   -28.374574
 0.71833    0.090316   -5.608459   -0.900924
 5.35E-05   -0.256321   -26.022997
 0.85916    0.090316   -5.608459   -0.900924
 5.35E-05    0.121429   -23.671419
 1.00000    0.090316   -5.608459   -0.900924
 5.35E-05    0.499178   -21.319842

ELEM       251 ================== LENGTH
=     2.977225

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.935199   11.901475   -0.916340
-7.93E-05   -0.510071   -21.300619
 0.14084   -0.935199   11.901475   -0.916340
-7.93E-05   -0.125844   -26.290080
 0.28168   -0.935199   11.901475   -0.916340
-7.93E-05    0.258383   -31.281342
 0.42251   -0.935199   11.901475   -0.916340
-7.93E-05    0.642610   -36.271703
 0.56335   -0.935199   11.901475   -0.916340
-7.93E-05    1.026837   -41.262065

ELEM       252 ================== LENGTH
=     2.976550

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43675    0.607198   -5.400194   -0.703289
-8.98E-06   -0.787797   -38.540786
 0.57756    0.607198   -5.400194   -0.703289
-8.98E-06   -0.493022   -36.277362
 0.71837    0.607198   -5.400194   -0.703289
-8.98E-06   -0.198248   -34.013939
 0.85919    0.607198   -5.400194   -0.703289
-8.98E-06    0.096527   -31.750515
 1.00000    0.607198   -5.400194   -0.703289
-8.98E-06    0.391301   -29.487092
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      65

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       253 ================== LENGTH
=     2.977603

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.365698   11.851911   -0.700343
-8.67E-05   -0.388247   -29.492161
 0.14085   -0.365698   11.851911   -0.700343
-8.67E-05   -0.094523   -34.462862
 0.28170   -0.365698   11.851911   -0.700343
-8.67E-05    0.199202   -39.433564
 0.42256   -0.365698   11.851911   -0.700343
-8.67E-05    0.492926   -44.404265
 0.56341   -0.365698   11.851911   -0.700343
-8.67E-05    0.786651   -49.374966

ELEM       254 ================== LENGTH
=     2.977998

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43653    0.613250   -7.092851   -0.366092
-3.19E-05   -0.407824   -45.743368
 0.57740    0.613250   -7.092851   -0.366092
-3.19E-05   -0.254249   -42.767920
 0.71827    0.613250   -7.092851   -0.366092
-3.19E-05   -0.100674   -39.792472
 0.85913    0.613250   -7.092851   -0.366092
-3.19E-05    0.052901   -36.817024
 1.00000    0.613250   -7.092851   -0.366092
-3.19E-05    0.206477   -33.841577

ELEM       255 ================== LENGTH
=     2.977065

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.336806   10.194864   -0.344592
-4.60E-05   -0.188240   -33.861064
 0.14083   -0.336806   10.194864   -0.344592
-4.60E-05   -0.043764   -38.135425
 0.28166   -0.336806   10.194864   -0.344592
-4.60E-05    0.100712   -42.409787
 0.42250   -0.336806   10.194864   -0.344592
-4.60E-05    0.245188   -46.684149
 0.56333   -0.336806   10.194864   -0.344592
-4.60E-05    0.389663   -50.958511

ELEM       256 ================== LENGTH
=     2.977536

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43660    0.192027   -7.892367    0.044176
-2.19E-05    0.054512   -47.693833
 0.57745    0.192027   -7.892367    0.044176
-2.19E-05    0.035985   -44.383900
 0.71830    0.192027   -7.892367    0.044176
-2.19E-05    0.017458   -41.073968
 0.85915    0.192027   -7.892367    0.044176
-2.19E-05   -0.001068   -37.764036
 1.00000    0.192027   -7.892367    0.044176
-2.19E-05   -0.019595   -34.454104

ELEM       257 ================== LENGTH
=     2.976603

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.747300    9.390091    0.089384
 3.43E-07    0.056539   -34.480208
 0.14082   -0.747300    9.390091    0.089384
 3.43E-07    0.019074   -38.416072
 0.28163   -0.747300    9.390091    0.089384
 3.43E-07   -0.018392   -42.351936
 0.42245   -0.747300    9.390091    0.089384
 3.43E-07   -0.055857   -46.287800
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      66

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
          T          M2          M3
 0.56326   -0.747300    9.390091    0.089384
 3.43E-07   -0.093323   -50.223664

ELEM       258 ================== LENGTH
=     2.977041

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43668   -0.372110   -7.396200    0.474448
-2.28E-05    0.538936   -43.650500
 0.57751   -0.372110   -7.396200    0.474448
-2.28E-05    0.340019   -40.549567
 0.71834   -0.372110   -7.396200    0.474448
-2.28E-05    0.141102   -37.448634
 0.85917   -0.372110   -7.396200    0.474448
-2.28E-05   -0.057815   -34.347700
 1.00000   -0.372110   -7.396200    0.474448
-2.28E-05   -0.256733   -31.246767

ELEM       259 ================== LENGTH
=     2.977210

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.317991    9.947262    0.539132
 5.31E-05    0.309920   -31.273343
 0.14084   -1.317991    9.947262    0.539132
 5.31E-05    0.083861   -35.444256
 0.28167   -1.317991    9.947262    0.539132
 5.31E-05   -0.142199   -39.615169
 0.42251   -1.317991    9.947262    0.539132
 5.31E-05   -0.368258   -43.786082
 0.56335   -1.317991    9.947262    0.539132
 5.31E-05   -0.594317   -47.956995

ELEM       260 ================== LENGTH
=     2.977834

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43656   -0.120510   -6.896833    0.877022
-3.24E-05    0.989521   -35.502704
 0.57742   -0.120510   -6.896833    0.877022
-3.24E-05    0.621647   -32.609769
 0.71828   -0.120510   -6.896833    0.877022
-3.24E-05    0.253773   -29.716835
 0.85914   -0.120510   -6.896833    0.877022
-3.24E-05   -0.114102   -26.823901
 1.00000   -0.120510   -6.896833    0.877022
-3.24E-05   -0.481976   -23.930966

ELEM       261 ================== LENGTH
=     2.976788

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.082513   10.546589    0.945257
 5.98E-05    0.539729   -23.946724
 0.14082   -1.082513   10.546589    0.945257
 5.98E-05    0.143480   -28.367822
 0.28164   -1.082513   10.546589    0.945257
 5.98E-05   -0.252769   -32.788920
 0.42247   -1.082513   10.546589    0.945257
 5.98E-05   -0.649017   -37.210018
 0.56329   -1.082513   10.546589    0.945257
 5.98E-05   -1.045266   -41.631116

ELEM       262 ================== LENGTH
=     2.977482

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43661    3.342058   -10.099133    1.201264
-0.000212    1.367546   -28.689670
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      67

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
          T          M2          M3
 0.57746    3.342058   -10.099133    1.201264
-0.000212    0.863771   -24.454391
 0.71831    3.342058   -10.099133    1.201264
-0.000212    0.359996   -20.219112
 0.85915    3.342058   -10.099133    1.201264
-0.000212   -0.143779   -15.983832
 1.00000    3.342058   -10.099133    1.201264
-0.000212   -0.647553   -11.748553

ELEM       263 ================== LENGTH
=     2.977542

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000    2.299367    7.459184    1.224606
 0.000134    0.675705   -11.751444
 0.14085    2.299367    7.459184    1.224606
 0.000134    0.162123   -14.879718
 0.28170    2.299367    7.459184    1.224606
 0.000134   -0.351459   -18.007992
 0.42255    2.299367    7.459184    1.224606
 0.000134   -0.865041   -21.136266
 0.56340    2.299367    7.459184    1.224606
 0.000134   -1.378623   -24.264540

ELEM       264 ================== LENGTH
=     2.977322

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43663   12.025095   -21.450483    1.915128
-8.10E-05    1.893030   -32.029213
 0.57748   12.025095   -21.450483    1.915128
-8.10E-05    1.089959   -23.034371
 0.71832   12.025095   -21.450483    1.915128
-8.10E-05    0.286887   -14.039530
 0.85916   12.025095   -21.450483    1.915128
-8.10E-05   -0.516184   -5.044688
 1.00000   12.025095   -21.450483    1.915128
-8.10E-05   -1.319255    3.950153

ELEM       265 ================== LENGTH
=     2.977382

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   13.706506   -7.762274    1.856730
-0.000200    1.290325    3.957711
 0.14084   13.706506   -7.762274    1.856730
-0.000200    0.511713    7.212785
 0.28169   13.706506   -7.762274    1.856730
-0.000200   -0.266898   10.467860
 0.42253   13.706506   -7.762274    1.856730
-0.000200   -1.045510   13.722934
 0.56337   13.706506   -7.762274    1.856730
-0.000200   -1.824121   16.978008

ELEM       266 ================== LENGTH
=     2.977820

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43656   18.643114   -22.461459    1.709356
-0.000310    1.786425   -34.448930
 0.57742   18.643114   -22.461459    1.709356
-0.000310    1.069427   -25.027357
 0.71828   18.643114   -22.461459    1.709356
-0.000310    0.352429   -15.605783
 0.85914   18.643114   -22.461459    1.709356
-0.000310   -0.364570   -6.184210
 1.00000   18.643114   -22.461459    1.709356
-0.000310   -1.081568    3.237364
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      68

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       267 ================== LENGTH
=     2.976890

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   15.830662   -21.432949    1.642017
-1.11E-06    1.045855    3.237203
 0.14083   15.830662   -21.432949    1.642017
-1.11E-06    0.357485   -12.222378
 0.28165   15.830662   -21.432949    1.642017
-1.11E-06   -0.330886   21.207552
 0.42248   15.830662   -21.432949    1.642017
-1.11E-06   -1.019256   30.192726
 0.56330   15.830662   -21.432949    1.642017
-1.11E-06   -1.707627   39.177901

ELEM       268 ================== LENGTH
=     2.976955

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43669   -5.017417   54.264347   -0.685983
-0.001457   -0.860702   66.240538
 0.57752   -5.017417   54.264347   -0.685983
-0.001457   -0.573111   43.490815
 0.71834   -5.017417   54.264347   -0.685983
-0.001457   -0.285520   20.741091
 0.85917   -5.017417   54.264347   -0.685983
-0.001457    0.002071   -2.008633
 1.00000   -5.017417   54.264347   -0.685983
-0.001457    0.289661   -24.758356

ELEM       269 ================== LENGTH
=     2.977946

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -5.826069   63.417445   -0.742830
-6.04E-07   -0.326787   -24.757472
 0.14086   -5.826069   63.417445   -0.742830
-6.04E-07   -0.015180   -51.360231
 0.28173   -5.826069   63.417445   -0.742830
-6.04E-07    0.296427   -77.962989
 0.42259   -5.826069   63.417445   -0.742830
-6.04E-07    0.608034   -104.565748
 0.56346   -5.826069   63.417445   -0.742830
-6.04E-07    0.919641   -131.168506

ELEM       270 ================== LENGTH
=     2.977332

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43663    0.358955    3.130263   -0.807569
-0.000449   -0.887935   -19.896846
 0.57747    0.358955    3.130263   -0.807569
-0.000449   -0.549295   -21.121469
 0.71832    0.358955    3.130263   -0.807569
-0.000449   -0.210654   -22.434091
 0.85916    0.358955    3.130263   -0.807569
-0.000449    0.127986   -23.746714
 1.00000    0.358955    3.130263   -0.807569
-0.000449    0.466627   -25.059336

ELEM       271 ================== LENGTH
=     2.977211

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.927714   26.397387   -0.835068
-0.000748   -0.482612   -25.037599
 0.14084   -0.927714   26.397387   -0.835068
-0.000748   -0.132466   -36.106095
 0.28167   -0.927714   26.397387   -0.835068
-0.000748    0.217681   -47.174590
 0.42251   -0.927714   26.397387   -0.835068
-0.000748    0.567827   -58.243086
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      69

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
          T          M2          M3
 0.56335   -0.927714   26.397387   -0.835068
-0.000748    0.917974   -69.311581

ELEM       272 ================== LENGTH
=     2.977533

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43660    2.308106   -17.633294   -0.583012
-0.000352   -0.650199   -61.564962
 0.57745    2.308106   -17.633294   -0.583012
-0.000352   -0.405693   -54.169854
 0.71830    2.308106   -17.633294   -0.583012
-0.000352   -0.161188   -46.774745
 0.85915    2.308106   -17.633294   -0.583012
-0.000352    0.083318   -39.379636
 1.00000    2.308106   -17.633294   -0.583012
-0.000352    0.327823   -31.984527

ELEM       273 ================== LENGTH
=     2.976426

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.027538    4.655615   -0.568641
-0.000358   -0.314098   -31.977572
 0.14081    1.027538    4.655615   -0.568641
-0.000358   -0.075777   -33.928770
 0.28162    1.027538    4.655615   -0.568641
-0.000358    0.162544   -35.879969
 0.42243    1.027538    4.655615   -0.568641
-0.000358    0.400865   -37.831167
 0.56323    1.027538    4.655615   -0.568641
-0.000358    0.639187   -39.782365

ELEM       274 ================== LENGTH
=     2.977811

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43656    2.113417   -24.274095   -0.304205
-0.000130   -0.337097   -76.724768
 0.57742    2.113417   -24.274095   -0.304205
-0.000130   -0.209498   -66.542930
 0.71828    2.113417   -24.274095   -0.304205
-0.000130   -0.081898   -56.361091
 0.85914    2.113417   -24.274095   -0.304205
-0.000130    0.045702   -46.179252
 1.00000    2.113417   -24.274095   -0.304205
-0.000130    0.173301   -35.997414

ELEM       275 ================== LENGTH
=     2.977811

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.00000    0.840784   -1.854056   -0.281527
-0.000185   -0.154741   -35.996567
 0.14086    0.840784   -1.854056   -0.281527
-0.000185   -0.036654   -35.218878
 0.28172    0.840784   -1.854056   -0.281527
-0.000185    0.081433   -34.441189
 0.42258    0.840784   -1.854056   -0.281527
-0.000185    0.199521   -33.663500
 0.56344    0.840784   -1.854056   -0.281527
-0.000185    0.317608   -32.885811

ELEM       276 ================== LENGTH
=     2.977174

 LOAD    AFTER --------------------

 REL DIST          P          V2          V3
          T          M2          M3
 0.43666    1.735069   -24.511962    0.013090
 1.44E-05    0.017312   -78.868996
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                    Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                      70

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
          T          M2          M3
 0.57749    1.735069   -24.511962    0.013090
 1.44E-05    0.011824   -68.591290
 0.71833    1.735069   -24.511962    0.013090
 1.44E-05    0.006335   -58.313584
 0.85916    1.735069   -24.511962    0.013090
 1.44E-05    0.000846   -48.035878
 1.00000    1.735069   -24.511962    0.013090
 1.44E-05   -0.004642   -37.758171

ELEM       277 ================== LENGTH
```

```
=     2.977280

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.468041   -2.196846    0.027299
  2.50E-06    0.016225   -37.757151
 0.14084    0.468041   -2.196846    0.027299
  2.50E-06    0.004778   -36.835969
 0.28168    0.468041   -2.196846    0.027299
  2.50E-06   -0.006669   -35.914787
 0.42252    0.468041   -2.196846    0.027299
  2.50E-06   -0.018116   -34.993605
 0.56336    0.468041   -2.196846    0.027299
  2.50E-06   -0.029564   -34.072424

 ELEM      278 ================== LENGTH
=     2.976714

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43672    1.691010   -21.756343    0.298911
  0.000162    0.330950   -73.668037
 0.57754    1.691010   -21.756343    0.298911
  0.000162    0.211653   -64.548248
 0.71836    1.691010   -21.756343    0.298911
  0.000162    0.086356   -55.428458
 0.85918    1.691010   -21.756343    0.298911
  0.000162   -0.038941   -46.308669
 1.00000    1.691010   -21.756343    0.298911
  0.000162   -0.164239   -37.188880

 ELEM      279 ================== LENGTH
=     2.977605

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.410417    0.540490    0.306151
 0.000167    0.170185   -37.177834
 0.14085    0.410417    0.540490    0.306151
 0.000167    0.044756   -37.404516
 0.28170    0.410417    0.540490    0.306151
 0.000167   -0.086615   -37.631198
 0.42256    0.410417    0.540490    0.306151
 0.000167   -0.215015   -37.857880
 0.56341    0.410417    0.540490    0.306151
 0.000167   -0.343414   -38.084562

 ELEM      280 ================== LENGTH
=     2.978210

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43650    1.495828   -13.963318    0.480960
  0.000298    0.542043   -57.596776
 0.57738    1.495828   -13.963318    0.480960
  0.000298    0.340255   -51.738432
 0.71825    1.495828   -13.963318    0.480960
  0.000298    0.138467   -45.880087
 0.85913    1.495828   -13.963318    0.480960
  0.000298   -0.063321   -40.021743
 1.00000    1.495828   -13.963318    0.480960
  0.000298   -0.265109   -34.163398
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                     Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                    71

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      281 ================== LENGTH
=     2.977120

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.173997    8.561411    0.495636
 0.000343    0.275618   -34.135708
 0.14083    0.173997    8.561411    0.495636
 0.000343    0.067808   -37.725336
 0.28167    0.173997    8.561411    0.495636
 0.000343   -0.140002   -41.314965
 0.42250    0.173997    8.561411    0.495636
 0.000343   -0.347812   -44.904593
 0.56334    0.173997    8.561411    0.495636
 0.000343   -0.555622   -48.494222

 ELEM      282 ================== LENGTH
=     2.976802

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43671    0.113244    4.115958    0.510448
 0.000421    0.517012   -22.324106
 0.57753    0.113244    4.115958    0.510448
 0.000421    0.363032   -24.049517
 0.71836    0.113244    4.115958    0.510448
 0.000421    0.149052   -25.774929
 0.85918    0.113244    4.115958    0.510448
 0.000421   -0.064928   -27.500340
 1.00000    0.113244    4.115958    0.510448
 0.000421   -0.278908   -29.225752

 ELEM      283 ================== LENGTH
=     2.977796

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000   -1.238746   26.504983    0.544349
 0.000473    0.303538   -29.169924
 0.14086   -1.238746   26.504983    0.544349
 0.000473    0.107212   -40.287412
 0.28172   -1.238746   26.504983    0.544349
 0.000473   -0.153115   -51.404899
 0.42258   -1.238746   26.504983    0.544349
 0.000473   -0.381442   -62.522387
 0.56344   -1.238746   26.504983    0.544349
 0.000473   -0.609769   -73.639874

 ELEM      284 ================== LENGTH
=     2.977458

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43661   -2.997864   34.175199    0.359773
 0.000299    0.411536   34.039375
 0.57746   -2.997864   34.175199    0.359773
 0.000299    0.260660   19.707513
 0.71831   -2.997864   34.175199    0.359773
 0.000299    0.109785    5.375651
 0.85915   -2.997864   34.175199    0.359773
 0.000299   -0.041091   -8.956211
 1.00000   -2.997864   34.175199    0.359773
 0.000299   -0.191967   -23.288073

 ELEM      285 ================== LENGTH
=     2.976463

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000   -4.467318   57.811777    0.414545
  0.000534    0.231507   -23.209503
 0.14081   -4.467318   57.811777    0.414545
  0.000534    0.057765   -47.439332
 0.28162   -4.467318   57.811777    0.414545
  0.000534   -0.115978   -71.669160
 0.42243   -4.467318   57.811777    0.414545
  0.000534   -0.289720   -95.898989
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                     Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                    72

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
           T         M2         M3
 0.56324   -4.467318   57.811777    0.414545
  0.000534   -0.463462  -120.128818

 ELEM      286 ================== LENGTH
=     2.977195

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43665   -5.529722   56.602380    0.088790
  0.000293    0.094465   73.042126
 0.57749   -5.529722   56.602380    0.088790
  0.000293    0.057236   49.308814
 0.71833   -5.529722   56.602380    0.088790
  0.000293    0.020006   25.575502
 0.85916   -5.529722   56.602380    0.088790
  0.000293   -0.017224    1.842190
 1.00000   -5.529722   56.602380    0.088790
  0.000293   -0.054453  -21.891121

 ELEM      287 ================== LENGTH
=     2.978190

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000   -6.823303   76.951217    0.089189
 -0.000344    0.055187  -21.805619
 0.14087   -6.823303   76.951217    0.089189
 -0.000344    0.017768  -54.090314
 0.28175   -6.823303   76.951217    0.089189
 -0.000344   -0.019651  -86.375009
 0.42262   -6.823303   76.951217    0.089189
 -0.000344   -0.057070 -118.659704
 0.56349   -6.823303   76.951217    0.089189
 -0.000344   -0.094489 -150.944399

 ELEM      288 ================== LENGTH
=     2.977394

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43662   -3.962131   42.126697   -0.154229
 -0.000645   -0.170019   46.721677
 0.57747   -3.962131   42.126697   -0.154229
 -0.000645   -0.105343   29.055906
 0.71831   -3.962131   42.126697   -0.154229
 -0.000645   -0.040667   11.390136
 0.85916   -3.962131   42.126697   -0.154229
 -0.000645    0.024008   -6.275635
 1.00000   -3.962131   42.126697   -0.154229
 -0.000645    0.088684  -23.941405

 ELEM      289 ================== LENGTH
=     2.976399

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000   -5.133321   60.911143   -0.197697
 -0.000103   -0.119442  -23.882103
 0.14081   -5.133321   60.911143   -0.197697
 -0.000103   -0.036587  -49.409951
 0.28162   -5.133321   60.911143   -0.197697
 -0.000103    0.046267  -74.937798
 0.42242   -5.133321   60.911143   -0.197697
 -0.000103    0.129122 -100.465645
 0.56323   -5.133321   60.911143   -0.197697
 -0.000103    0.211977 -125.993493

 ELEM      290 ================== LENGTH
=     2.977259

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43664   -0.425678   10.113484   -0.359235
 -0.000332   -0.408520  -10.758727
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                     Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                    73

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
           T         M2         M3
 0.57748   -0.425678   10.113484   -0.359235
 -0.000332   -0.257888  -14.999459
 0.71832   -0.425678   10.113484   -0.359235
 -0.000332   -0.107255  -19.240191
 0.85916   -0.425678   10.113484   -0.359235
 -0.000332    0.043378  -23.480924
 1.00000   -0.425678   10.113484   -0.359235
 -0.000332    0.194010  -27.721656

 ELEM      291 ================== LENGTH
=     2.977259

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000   -1.865317   33.631951   -0.392575
 -0.000638   -0.217222  -27.647714
 0.14084   -1.865317   33.631951   -0.392575
 -0.000638   -0.052610  -41.750084
 0.28168   -1.865317   33.631951   -0.392575
 -0.000638    0.112003  -55.852454
 0.42252   -1.865317   33.631951   -0.392575
 -0.000638    0.276615  -69.954824
 0.56336   -1.865317   33.631951   -0.392575
 -0.000638    0.441228  -84.057194

 ELEM      292 ================== LENGTH
=     2.977267

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43664    1.406264   -10.329372   -0.423259
 -0.000380   -0.476564   -51.503813
 0.57748    1.406264   -10.329372   -0.423259
 -0.000380   -0.299085   -47.172535
 0.71832    1.406264   -10.329372   -0.423259
 -0.000380   -0.121605   -42.841257
 0.85916    1.406264   -10.329372   -0.423259
 -0.000380    0.055874   -38.509978
 1.00000    1.406264   -10.329372   -0.423259
 -0.000380    0.233354   -34.178700

 ELEM      293 ================== LENGTH
=     2.977199

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.072629   12.028625   -0.433337
 -0.000400   -0.239711   -34.137396
 0.14084    0.072629   12.028625   -0.433337
 -0.000400   -0.058013   -39.180995
 0.28167    0.072629   12.028625   -0.433337
 -0.000400    0.123686   -44.224594
 0.42251    0.072629   12.028625   -0.433337
 -0.000400    0.305384   -49.268193
 0.56335    0.072629   12.028625   -0.433337
 -0.000400    0.487082   -54.311792

 ELEM      294 ================== LENGTH
=     2.977215

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43665    1.925833   -20.113454   -0.332146
 -0.000200   -0.373193   -72.158158
 0.57749    1.925833   -20.113454   -0.332146
 -0.000200   -0.233923   -63.724511
 0.71832    1.925833   -20.113454   -0.332146
 -0.000200   -0.094653   -55.290865
 0.85916    1.925833   -20.113454   -0.332146
 -0.000200    0.044617   -46.857218
 1.00000    1.925833   -20.113454   -0.332146
 -0.000200    0.183888   -38.423572
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                     Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                    74

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      295 ================== LENGTH
=     2.977215

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.623725    2.226154   -0.330822
 -0.000275   -0.182203   -38.400040
 0.14084    0.623725    2.226154   -0.330822
 -0.000275   -0.043488   -39.333475
 0.28168    0.623725    2.226154   -0.330822
 -0.000275    0.095227   -40.266910
 0.42251    0.623725    2.226154   -0.330822
 -0.000275    0.233942   -41.200344
 0.56335    0.623725    2.226154   -0.330822
 -0.000275    0.372656   -42.133779

 ELEM      296 ================== LENGTH
=     2.977307

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43664    1.912854   -22.704287   -0.128716
 -7.64E-05   -0.144010   -78.618715
 0.57748    1.912854   -22.704287   -0.128716
 -7.64E-05   -0.090036   -69.098200
 0.71832    1.912854   -22.704287   -0.128716
 -7.64E-05   -0.036061   -59.577685
 0.85916    1.912854   -22.704287   -0.128716
 -7.64E-05    0.017913   -50.057170
 1.00000    1.912854   -22.704287   -0.128716
 -7.64E-05    0.071887   -40.536656

 ELEM      297 ================== LENGTH
=     2.977365

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.632037   -0.443657   -0.125362
 -7.22E-05   -0.069047   -40.524582
 0.14084    0.632037   -0.443657   -0.125362
 -7.22E-05   -0.016478   -40.338538
 0.28169    0.632037   -0.443657   -0.125362
 -7.22E-05    0.036092   -40.152494
 0.42253    0.632037   -0.443657   -0.125362
 -7.22E-05    0.088661   -39.966450
 0.56337    0.632037   -0.443657   -0.125362
 -7.22E-05    0.141231   -39.780406

 ELEM      298 ================== LENGTH
=     2.977475

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43661    1.900691   -22.660736    0.112592
  7.72E-05    0.126573   -78.402846
 0.57746    1.900691   -22.660736    0.112592
  7.72E-05    0.079856   -68.899642
 0.71831    1.900691   -22.660736    0.112592
  7.72E-05    0.032138   -59.396438
 0.85915    1.900691   -22.660736    0.112592
  7.72E-05   -0.015079   -49.893233
 1.00000    1.900691   -22.660736    0.112592
  7.72E-05   -0.062297   -40.390029

 ELEM      299 ================== LENGTH
=     2.977528

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.619705   -0.389836    0.113831
  8.79E-05    0.063296   -40.377701
 0.14085    0.619705   -0.389836    0.113831
  8.79E-05    0.015557   -40.214210
 0.28170    0.619705   -0.389836    0.113831
  8.79E-05   -0.032182   -40.050720
 0.42255    0.619705   -0.389836    0.113831
  8.79E-05   -0.079921   -39.887230
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                     Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                    75

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
           T         M2         M3
 0.56340    0.619705   -0.389836    0.113831
  8.79E-05   -0.127660   -39.723740

 ELEM      300 ================== LENGTH
=     2.976770

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43672    1.889779   -19.914666    0.320069
  0.000205    0.360178   -71.400897
 0.57754    1.889779   -19.914666    0.320069
  0.000205    0.226007   -63.052821
 0.71836    1.889779   -19.914666    0.320069
  0.000205    0.091837   -54.704744
 0.85918    1.889779   -19.914666    0.320069
  0.000205   -0.042334   -46.356668
 1.00000    1.889779   -19.914666    0.320069
  0.000205   -0.176504   -38.008592

 ELEM      301 ================== LENGTH
=     2.977767

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.589984    2.403828    0.323024
 0.000285    0.178593   -37.986130
 0.14086    0.589984    2.403828    0.323024
 0.000285    0.043104   -38.994396
 0.28172    0.589984    2.403828    0.323024
 0.000285   -0.092386   -40.002662
 0.42257    0.589984    2.403828    0.323024
 0.000285   -0.227876   -41.010927
 0.56343    0.589984    2.403828    0.323024
 0.000285   -0.363366   -42.019193

 ELEM      302 ================== LENGTH
=     2.977084

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43667    1.347490   -10.059026    0.417865
  0.000375    0.471158   -50.290270
 0.57750    1.347490   -10.059026    0.417865
  0.000375    0.295960   -46.072812
 0.71833    1.347490   -10.059026    0.417865
  0.000375    0.120761   -41.855354
 0.85917    1.347490   -10.059026    0.417865
  0.000375   -0.054437   -37.637896
 1.00000    1.347490   -10.059026    0.417865
  0.000375   -0.229636   -33.420438

 ELEM      303 ================== LENGTH
=     2.977084

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000    0.011868   12.367068    0.433186
  0.000415    0.240418   -33.378478
 0.14083    0.011868   12.367068    0.433186
  0.000415    0.058796   -38.563631
 0.28167    0.011868   12.367068    0.433186
  0.000415   -0.122827   -43.748784
 0.42250    0.011868   12.367068    0.433186
  0.000415   -0.304449   -48.933937
 0.56333    0.011868   12.367068    0.433186
  0.000415   -0.486072   -54.119090

 ELEM      304 ================== LENGTH
=     2.977474

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43661   -0.410236   10.254595    0.363176
  0.000349    0.413775   -9.590851
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                     Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                    76

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
           T         M2         M3
 0.57746   -0.410236   10.254595    0.363176
  0.000349    0.261471   -13.891306
 0.71831   -0.410236   10.254595    0.363176
  0.000349    0.109166   -18.191761
 0.85915   -0.410236   10.254595    0.363176
  0.000349   -0.043138   -22.492216
 1.00000   -0.410236   10.254595    0.363176
  0.000349   -0.195442   -26.792671

 ELEM      305 ================== LENGTH
=     2.976477

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000   -1.833406   33.515295    0.401862
  0.000617    0.223117   -26.727269
 0.14081   -1.833406   33.515295    0.401862
  0.000617    0.054689   -40.774173
 0.28162   -1.833406   33.515295    0.401862
  0.000617   -0.113739   -54.821076
 0.42243   -1.833406   33.515295    0.401862
  0.000617   -0.282167   -68.867979
 0.56324   -1.833406   33.515295    0.401862
  0.000617   -0.450595   -82.914883

 ELEM      306 ================== LENGTH
=     2.977940

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43654   -3.627919   39.556824    0.171549
  0.000532    0.189317   44.534302
 0.57741   -3.627919   39.556824    0.171549
  0.000532    0.117355   27.940804
 0.71827   -3.627919   39.556824    0.171549
  0.000532    0.045393   11.347306
 0.85914   -3.627919   39.556824    0.171549
  0.000532   -0.026569   -5.246192
 1.00000   -3.627919   39.556824    0.171549
  0.000532   -0.098531   -21.839690

 ELEM      307 ================== LENGTH
=     2.976943

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000   -4.876121   59.794445    0.218109
  0.000187    0.132450   -21.770181
 0.14083   -4.876121   59.794445    0.218109
  0.000187    0.041011   -46.838146
 0.28166   -4.876121   59.794445    0.218109
  0.000187   -0.050428   -71.906111
 0.42248   -4.876121   59.794445    0.218109
  0.000187   -0.141867   -96.974076
 0.56331   -4.876121   59.794445    0.218109
  0.000187   -0.233306   -122.042041

 ELEM      308 ================== LENGTH
=     2.977599

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.43659   -5.122864   54.204888   -0.065729
  1.10E-06   -0.068362   68.534815
 0.57745   -5.122864   54.204888   -0.065729
  1.10E-06   -0.040795   45.801302
 0.71830   -5.122864   54.204888   -0.065729
  1.10E-06   -0.013228   23.067790
 0.85915   -5.122864   54.204888   -0.065729
  1.10E-06    0.014338   0.334278
 1.00000   -5.122864   54.204888   -0.065729
  1.10E-06    0.041905   -22.399235
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1502.OUT

                     Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                    77

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      309 ================== LENGTH
=     2.976630

 LOAD   AFTER --------------------

 REL DIST          P          V2          V3
           T         M2         M3
 0.00000   -6.128637   69.129235   -0.060596
  7.49E-06   -0.037504   -22.353860
 0.14082   -6.128637   69.129235   -0.060596
  7.49E-06   -0.012105   -51.329902
 0.28163   -6.128637   69.129235   -0.060596
  7.49E-06    0.013294   -80.305944
 0.42245   -6.128637   69.129235   -0.060596
  7.49E-06    0.038693   -109.281987
 0.56326   -6.128637   69.129235   -0.060596
  7.49E-06    0.064093   -138.258029

 ELEM      310 ================== LENGTH
=     2.977323

 LOAD   AFTER --------------------
```

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-3.633024	39.580557	-0.294673
-0.000532	-0.321187	44.600259	
0.57748	-3.633024	39.580557	-0.294673
-0.000532	-0.197622	28.002912	
0.71832	-3.633024	39.580557	-0.294673
-0.000532	-0.074056	11.405564	
0.85916	-3.633024	39.580557	-0.294673
-0.000532	0.049509	-5.191783	
1.00000	-3.633024	39.580557	-0.294673
-0.000532	0.173074	-21.789131	

ELEM 311 ========== LENGTH = 2.977349

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.859055	59.837152	-0.331519
-0.000170	-0.198872	-21.717205	
0.14084	-4.859055	59.837152	-0.331519
-0.000170	-0.059854	-46.809156	
0.28169	-4.859055	59.837152	-0.331519
-0.000170	0.079164	-71.901108	
0.42253	-4.859055	59.837152	-0.331519
-0.000170	0.218182	-96.993060	
0.56337	-4.859055	59.837152	-0.331519
-0.000170	0.357201	-122.085012	

ELEM 312 ========== LENGTH = 2.977992

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.405658	10.312655	-0.474134
-0.000349	-0.536845	-9.390644	
0.57740	-0.405658	10.312655	-0.474134
-0.000349	-0.337947	-13.716782	
0.71827	-0.405658	10.312655	-0.474134
-0.000349	-0.139048	-18.042921	
0.85913	-0.405658	10.312655	-0.474134
-0.000349	0.059850	-22.369059	
1.00000	-0.405658	10.312655	-0.474134
-0.000349	0.258749	-26.695198	

ELEM 313 ========== LENGTH = 2.976994

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.827468	33.557448	-0.505272
-0.000603	-0.279949	-26.631154	
0.14083	-1.827468	33.557448	-0.505272
-0.000603	-0.068115	-40.700065	
0.28166	-1.827468	33.557448	-0.505272
-0.000603	0.143720	-54.768976	
0.42249	-1.827468	33.557448	-0.505272
-0.000603	0.355555	-68.837886	

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.56332	-1.827468	33.557448	-0.505272
-0.000603	0.567389	-82.906797	

ELEM 314 ========== LENGTH = 2.977713

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	1.354006	-10.342701	-0.521068
-0.000385	-0.585736	-50.533549	
0.57743	1.354006	-10.342701	-0.521068
-0.000385	-0.367185	-46.195529	
0.71829	1.354006	-10.342701	-0.521068
-0.000385	-0.148634	-41.857509	
0.85914	1.354006	-10.342701	-0.521068
-0.000385	0.069917	-37.519489	
1.00000	1.354006	-10.342701	-0.521068
-0.000385	0.288467	-33.181469	

ELEM 315 ========== LENGTH = 2.977713

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.013734	12.211113	-0.530353
-0.000398	-33.141389	-34.044067	
0.14086	0.013734	12.211113	-0.530353
-0.000398	-0.071622	-38.263073	
0.28171	0.013734	12.211113	-0.530353
-0.000398	0.150823	-43.384757	
0.42257	0.013734	12.211113	-0.530353
-0.000398	0.373268	-48.506442	
0.56342	0.013734	12.211113	-0.530353
-0.000398	0.595712	-53.628126	

ELEM 316 ========== LENGTH = 2.977509

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.921054	-20.150964	-0.403514
-0.000202	-0.453395	-71.650634	
0.57745	1.921054	-20.150964	-0.403514
-0.000202	-0.284170	-63.199780	
0.71830	1.921054	-20.150964	-0.403514
-0.000202	-0.114946	-54.748927	
0.85915	1.921054	-20.150964	-0.403514
-0.000202	0.054279	-46.298074	
1.00000	1.921054	-20.150964	-0.403514
-0.000202	0.223504	-37.847220	

ELEM 317 ========== LENGTH = 2.977509

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.631813	2.101288	-0.402565
-0.000285	-0.221982	-37.830362	
0.14085	0.631813	2.101288	-0.402565
-0.000285	-0.053155	-38.711594	
0.28170	0.631813	2.101288	-0.402565
-0.000285	0.115671	-39.592826	
0.42255	0.631813	2.101288	-0.402565
-0.000285	0.284498	-40.474058	
0.56339	0.631813	2.101288	-0.402565
-0.000285	0.453325	-41.355290	

ELEM 318 ========== LENGTH = 2.977380

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.939891	-22.592299	-0.158160
-8.05E-05	-0.117057	-78.122907	

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.57747	1.939891	-22.592299	-0.158160
-8.05E-05	-0.110733	-68.648939	
0.71831	1.939891	-22.592299	-0.158160
-8.05E-05	-0.044409	-59.174971	
0.85916	1.939891	-22.592299	-0.158160
-8.05E-05	0.021915	-49.701003	
1.00000	1.939891	-22.592299	-0.158160
-8.05E-05	0.088238	-40.227036	

ELEM 319 ========== LENGTH = 2.976382

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.671295	-0.366105	-0.155875
-7.63E-05	-0.086125	-40.222596	
0.14081	0.671295	-0.366105	-0.155875
-7.63E-05	-0.020799	-40.069163	
0.28161	0.671295	-0.366105	-0.155875
-7.63E-05	0.044528	-39.915730	
0.42242	0.671295	-0.366105	-0.155875
-7.63E-05	0.109854	-39.762297	
0.56323	0.671295	-0.366105	-0.155875
-7.63E-05	0.175180	-39.608864	

ELEM 320 ========== LENGTH = 2.977328

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.934544	-22.585203	0.130316
8.28E-05	0.146112	-78.108956	
0.57747	1.934544	-22.585203	0.130316
8.28E-05	0.091467	-68.638255	
0.71832	1.934544	-22.585203	0.130316
8.28E-05	0.036821	-59.167555	
0.85916	1.934544	-22.585203	0.130316
8.28E-05	-0.017825	-49.696855	
1.00000	1.934544	-22.585203	0.130316
8.28E-05	-0.072471	-40.226155	

ELEM 321 ========== LENGTH = 2.977327

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.666719	-0.356707	0.130345
8.03E-05	0.072414	-40.222186	
0.14084	0.666719	-0.356707	0.130345
8.03E-05	0.017757	-40.072607	
0.28168	0.666719	-0.356707	0.130345
8.03E-05	-0.036901	-39.923028	
0.42253	0.666719	-0.356707	0.130345
8.03E-05	-0.091559	-39.773450	
0.56337	0.666719	-0.356707	0.130345
8.03E-05	-0.146216	-39.623871	

ELEM 322 ========== LENGTH = 2.977346

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.914314	-20.153829	0.383171
0.000204	0.430908	-71.656171	
0.57747	1.914314	-20.153829	0.383171
0.000204	0.270230	-63.204935	
0.71832	1.914314	-20.153829	0.383171
0.000204	0.109552	-54.753699	
0.85916	1.914314	-20.153829	0.383171
0.000204	-0.051125	-46.302463	
1.00000	1.914314	-20.153829	0.383171
0.000204	-0.211803	-37.851227	

FRAME ELEMENT INTERNAL FORCES

ELEM 323 ========== LENGTH = 2.977350

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.629619	2.062464	0.384902
0.000288	0.212556	-37.836426	
0.14084	0.629619	2.062464	0.384902
0.000288	0.051152	-38.701294	
0.28168	0.629619	2.062464	0.384902
0.000288	-0.110252	-39.566163	
0.42253	0.629619	2.062464	0.384902
0.000288	-0.271655	-40.431031	
0.56337	0.629619	2.062464	0.384902
0.000288	-0.433059	-41.295899	

ELEM 324 ========== LENGTH = 2.977439

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43662	1.369982	-10.385169	0.513369
0.000386	0.577360	-50.569829	
0.57746	1.369982	-10.385169	0.513369
0.000386	0.362073	-46.214707	
0.71831	1.369982	-10.385169	0.513369
0.000386	0.146787	-41.859585	
0.85915	1.369982	-10.385169	0.513369
0.000386	-0.068499	-37.504462	
1.00000	1.369982	-10.385169	0.513369
0.000386	-0.283786	-33.149340	

ELEM 325 ========== LENGTH = 2.977448

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.032324	12.180689	0.525397
0.000399	0.291744	-33.113358	
0.14085	0.032324	12.180689	0.525397
0.000399	0.071412	-38.221477	
0.28169	0.032324	12.180689	0.525397
0.000399	-0.148919	-43.329595	
0.42254	0.032324	12.180689	0.525397
0.000399	-0.369251	-48.437713	
0.56338	0.032324	12.180689	0.525397
0.000399	-0.589582	-53.545831	

ELEM 326 ========== LENGTH = 2.976624

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43674	-0.343388	10.275149	0.483422
0.000347	0.547029	-9.412236	
0.57755	-0.343388	10.275149	0.483422
0.000347	0.344400	-13.719125	
0.71837	-0.343388	10.275149	0.483422
0.000347	0.141771	-18.026015	
0.85918	-0.343388	10.275149	0.483422
0.000347	-0.060859	-22.332905	
1.00000	-0.343388	10.275149	0.483422
0.000347	-0.263488	-26.639795	

ELEM 327 ========== LENGTH = 2.977608

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.759548	33.496719	0.515202
0.000602	0.285968	-26.576633	
0.14085	-1.759548	33.496719	0.515202
0.000602	0.069892	-40.625223	
0.28170	-1.759548	33.496719	0.515202
0.000602	-0.146185	-54.673813	
0.42256	-1.759548	33.496719	0.515202
0.000602	-0.362262	-68.722404	

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.56341	-1.759548	33.496719	0.515202
0.000602	-0.578338	-82.770994	

ELEM 328 ========== LENGTH = 2.976854

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-3.490632	39.549669	0.323707
0.000531	0.352958	44.624601	
0.57753	-3.490632	39.549669	0.323707
0.000531	0.217255	28.044844	
0.71835	-3.490632	39.549669	0.323707
0.000531	0.081553	11.465087	
0.85918	-3.490632	39.549669	0.323707
0.000531	-0.054149	-5.114671	
1.00000	-3.490632	39.549669	0.323707
0.000531	-0.189852	-21.694428	

ELEM 329 ========== LENGTH = 2.977871

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.704059	59.793198	0.363472
0.000165	0.218400	-21.628140	
0.14086	-4.704059	59.793198	0.363472
0.000165	0.065935	-46.709461	
0.28172	-4.704059	59.793198	0.363472
0.000165	-0.086530	-71.790783	
0.42258	-4.704059	59.793198	0.363472
0.000165	-0.238995	-96.872104	
0.56345	-4.704059	59.793198	0.363472
0.000165	-0.391459	-121.953425	

ELEM 330 ========== LENGTH = 2.977081

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-4.947861	54.246358	0.111740
-1.81E-06	0.117171	68.665305	
0.57750	-4.947861	54.246358	0.111740
-1.81E-06	0.070322	45.921415	
0.71833	-4.947861	54.246358	0.111740
-1.81E-06	0.023473	23.177525	
0.85917	-4.947861	54.246358	0.111740
-1.81E-06	-0.023376	0.433635	
1.00000	-4.947861	54.246358	0.111740
-1.81E-06	-0.070225	-22.310255	

ELEM 331 ========== LENGTH = 2.977081

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.944356	69.130526	0.111958
-1.42E-05	0.070298	-22.263652	
0.14083	-5.944356	69.130526	0.111958
-1.42E-05	0.023358	-51.248033	
0.28167	-5.944356	69.130526	0.111958
-1.42E-05	-0.023583	-80.232414	
0.42250	-5.944356	69.130526	0.111958
-1.42E-05	-0.070524	-109.216794	
0.56333	-5.944356	69.130526	0.111958
-1.42E-05	-0.117465	-138.201175	

ELEM 332 ========== LENGTH = 2.977323

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-3.480887	39.462540	-0.115603
-0.000533	-0.128082	44.424883	
Program SAP2000 Nonlinear Version 7.42			
File:하행S11-S1502.OUT			

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.57748	-3.480887	39.462540	-0.115603
-0.000533	-0.079606	27.877024	
0.71832	-3.480887	39.462540	-0.115603
-0.000533	-0.031130	11.329165	
0.85916	-3.480887	39.462540	-0.115603
-0.000533	0.017346	-5.218695	
1.00000	-3.480887	39.462540	-0.115603
-0.000533	0.065822	-21.766554	

ELEM 333 ========== LENGTH = 2.977323

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.733886	59.678597	-0.155881
-0.000196	-0.094773	-21.705151	
0.14084	-4.733886	59.678597	-0.155881
-0.000196	-0.029408	-46.730227	
0.28168	-4.733886	59.678597	-0.155881
-0.000196	0.035958	-71.755302	
0.42252	-4.733886	59.678597	-0.155881
-0.000196	0.101324	-96.780377	
0.56337	-4.733886	59.678597	-0.155881
-0.000196	0.166689	-121.805453	

ELEM 334 ========== LENGTH = 2.976751

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.357780	10.227551	-0.299236
-0.000351	-0.341175	-9.587981	
0.57754	-0.357780	10.227551	-0.299236
-0.000351	-0.215738	-13.875246	
0.71836	-0.357780	10.227551	-0.299236
-0.000351	-0.090302	-18.162511	
0.85918	-0.357780	10.227551	-0.299236
-0.000351	0.035134	-22.449776	
1.00000	-0.357780	10.227551	-0.299236
-0.000351	0.160570	-26.737041	

ELEM 335 ========== LENGTH = 2.977749

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.776483	33.463308	-0.331201
-0.000629	-0.183268	-26.670875	
0.14086	-1.776483	33.463308	-0.331201
-0.000629	-0.044350	-40.706633	
0.28171	-1.776483	33.463308	-0.331201
-0.000629	0.094568	-54.742390	
0.42257	-1.776483	33.463308	-0.331201
-0.000629	0.233486	-68.778148	
0.56343	-1.776483	33.463308	-0.331201
-0.000629	0.372405	-82.813905	

ELEM 336 ========== LENGTH = 2.977217

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.370776	-10.325903	-0.350044
-0.000381	-0.394896	-50.713302	
0.57749	1.370776	-10.325903	-0.350044
-0.000381	-0.248121	-46.383707	
0.71832	1.370776	-10.325903	-0.350044
-0.000381	-0.101346	-42.054013	
0.85916	1.370776	-10.325903	-0.350044
-0.000381	0.045429	-37.724318	
1.00000	1.370776	-10.325903	-0.350044
-0.000381	0.192204	-33.394624	

FRAME ELEMENT INTERNAL FORCES

ELEM 337 ========== LENGTH = 2.977253

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.030747	12.159731	-0.361852
-0.000430	-0.200112	-33.352304	
0.14084	0.030747	12.159731	-0.361852
-0.000430	-0.048382	-38.451039	
0.28168	0.030747	12.159731	-0.361852
-0.000430	0.103347	-43.549774	
0.42252	0.030747	12.159731	-0.361852
-0.000430	0.255076	-48.648509	
0.56336	0.030747	12.159731	-0.361852
-0.000430	0.406806	-53.747245	

ELEM 338 ========== LENGTH = 2.976832

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	1.947669	-20.144228	-0.258056
-0.000205	-0.290634	-71.946733	
0.57753	1.947669	-20.144228	-0.258056
-0.000205	-0.182454	-63.495111	
0.71835	1.947669	-20.144228	-0.258056
-0.000205	-0.074275	-55.057489	
0.85918	1.947669	-20.144228	-0.258056
-0.000205	0.033904	-46.612867	
1.00000	1.947669	-20.144228	-0.258056
-0.000205	0.142083	-38.168246	

ELEM 339 ========== LENGTH = 2.977829

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.648874	2.119940	-0.258776
-0.000307	-0.142225	-38.144797	
0.14086	0.648874	2.119940	-0.258776
-0.000307	-0.033680	-39.034022	
0.28172	0.648874	2.119940	-0.258776
-0.000307	0.074866	-39.923246	
0.42258	0.648874	2.119940	-0.258776
-0.000307	0.183411	-40.812471	
0.56344	0.648874	2.119940	-0.258776
-0.000307	0.291956	-41.701695	

ELEM 340 ========== LENGTH = 2.977485

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	2.001049	-22.507138	-0.063230
-8.01E-05	-0.070777	-78.488115	
0.57746	2.001049	-22.507138	-0.063230
-8.01E-05	-0.044260	-69.042271	
0.71831	2.001049	-22.507138	-0.063230
-8.01E-05	-0.017743	-59.603427	
0.85915	2.001049	-22.507138	-0.063230
-8.01E-05	0.008774	-50.164583	
1.00000	2.001049	-22.507138	-0.063230
-8.01E-05	0.035291	-40.725739	

ELEM 341 ========== LENGTH = 2.977439

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.717702	-0.268545	-0.062032
-9.34E-05	-0.034250	-40.711199	
0.14085	0.717702	-0.268545	-0.062032
-9.34E-05	-0.008237	-40.598582	
0.28169	0.717702	-0.268545	-0.062032
-9.34E-05	0.017777	-40.485966	
0.42254	0.717702	-0.268545	-0.062032
-9.34E-05	0.043790	-40.373349	

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.56338	0.717702	-0.268545	-0.062032
-9.34E-05	0.069804	-40.260732	

ELEM 342 ========== LENGTH = 2.977165

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	1.996894	-22.484857	0.151832
8.47E-05	0.170747	-78.665647	
0.57749	1.996894	-22.484857	0.151832
8.47E-05	0.107086	-69.237933	
0.71833	1.996894	-22.484857	0.151832
8.47E-05	0.043424	-59.810219	
0.85916	1.996894	-22.484857	0.151832
8.47E-05	-0.020238	-50.382505	
1.00000	1.996894	-22.484857	0.151832
8.47E-05	-0.083900	-40.954790	

ELEM 343 ========== LENGTH = 2.977215

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.709945	-0.259364	0.151737	
7.17E-05	0.083677	-40.936564		
0.14084	0.709945	-0.259364	0.151737	
7.17E-05	0.020053	-40.827812		
0.28168	0.709945	-0.259364	0.151737	
7.17E-05	-0.043571	-40.719059		
0.42251	0.709945	-0.259364	0.151737	
7.17E-05	-0.107195	-40.610307		
0.56335	0.709945	-0.259364	0.151737	
7.17E-05	-0.170819	-40.501554		

ELEM 344 ========== LENGTH = 2.976966

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43669	1.883733	-20.094341	0.310239	
0.000205	0.349758	-72.441021		
0.57751	1.883733	-20.094341	0.310239	
0.000205	0.219693	-64.016637		
0.71834	1.883733	-20.094341	0.310239	
0.000205	0.089628	-55.592254		
0.85917	1.883733	-20.094341	0.310239	
0.000205	-0.040437	-47.167870		
1.00000	1.883733	-20.094341	0.310239	
0.000205	-0.170502	-38.743486		

ELEM 345 ========== LENGTH = 2.977963

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.563349	2.345457	0.313384	
0.000295	0.172461	-38.710590		
0.14086	0.563349	2.345457	0.313384	
0.000295	0.041000	-39.694488		
0.28173	0.563349	2.345457	0.313384	
0.000295	-0.090462	-40.678385		
0.42259	0.563349	2.345457	0.313384	
0.000295	-0.221924	-41.662283		
0.56346	0.563349	2.345457	0.313384	
0.000295	-0.353386	-42.646180		

ELEM 346 ========== LENGTH = 2.977840

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43656	1.096836	-9.670689	0.340837	
0.000394	0.385709	-50.724434		

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57742	1.096836	-9.670689	0.340837	
0.000394	0.242741	-46.667876		
0.71828	1.096836	-9.670689	0.340837	
0.000394	0.099774	-42.611407		
0.85914	1.096836	-9.670689	0.340837	
0.000394	-0.043194	-38.554939		
1.00000	1.096836	-9.670689	0.340837	
0.000394	-0.186162	-34.498470		

ELEM 347 ========== LENGTH = 2.976844

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.250139	12.666227	0.357446	
0.000415	0.197481	-34.446986		
0.14082	-0.250139	12.666227	0.357446	
0.000415	0.047635	-39.756808		
0.28165	-0.250139	12.666227	0.357446	
0.000415	-0.102210	-45.066630		
0.42247	-0.250139	12.666227	0.357446	
0.000415	-0.252055	-50.376452		
0.56330	-0.250139	12.666227	0.357446	
0.000415	-0.401901	-55.686274		

ELEM 348 ========== LENGTH = 2.976798

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	-0.855541	11.870272	0.213310	
0.000328	0.246907	-8.030984		
0.57753	-0.855541	11.870272	0.213310	
0.000328	0.156588	-13.015995		
0.71836	-0.855541	11.870272	0.213310	
0.000328	0.067168	-17.992006		
0.85918	-0.855541	11.870272	0.213310	
0.000328	-0.022251	-22.968018		
1.00000	-0.855541	11.870272	0.213310	
0.000328	-0.111670	-27.944029		

ELEM 349 ========== LENGTH = 2.977728

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-2.313084	35.449740	0.248787	
0.000663	0.137017	-27.860786		
0.14086	-2.313084	35.449740	0.248787	
0.000663	0.032668	-42.729542		
0.28171	-2.313084	35.449740	0.248787	
0.000663	-0.071681	-57.598299		
0.42257	-2.313084	35.449740	0.248787	
0.000663	-0.176030	-72.467056		
0.56343	-2.313084	35.449740	0.248787	
0.000663	-0.280379	-87.335813		

ELEM 350 ========== LENGTH = 2.976757

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43672	-4.133224	45.352235	-0.080541	
0.000629	-0.082798	52.064345		
0.57754	-4.133224	45.352235	-0.080541	
0.000629	-0.049036	33.053180		
0.71836	-4.133224	45.352235	-0.080541	
0.000629	-0.015275	14.042015		
0.85918	-4.133224	45.352235	-0.080541	
0.000629	0.018487	-4.969150		
1.00000	-4.133224	45.352235	-0.080541	
0.000629	0.052249	-23.980315		

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 351 ========== LENGTH = 2.977823

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.372445	64.185629	-0.038978	
0.000118	-0.022158	-23.905326		
0.14086	-5.372445	64.185629	-0.038978	
0.000118	-0.005509	-50.828357		
0.28172	-5.372445	64.185629	-0.038978	
0.000118	0.010540	-77.751389		
0.42258	-5.372445	64.185629	-0.038978	
0.000118	0.026890	-104.674420		
0.56344	-5.372445	64.185629	-0.038978	
0.000118	0.043239	-131.597452		

ELEM 352 ========== LENGTH = 2.976557

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43675	-5.519943	61.161793	-0.387268	
-0.000326	-0.415504	80.608189		
0.57756	-5.519943	61.161793	-0.387268	
-0.000326	-0.253184	54.972875		
0.71837	-5.519943	61.161793	-0.387268	
-0.000326	-0.090865	29.337560		
0.85919	-5.519943	61.161793	-0.387268	
-0.000326	0.071454	3.702246		
1.00000	-5.519943	61.161793	-0.387268	
-0.000326	0.233773	-21.933068		

ELEM 353 ========== LENGTH = 2.977553

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.780319	81.579342	-0.383677	
0.000341	-0.230946	-21.843355		
0.14085	-6.780319	81.579342	-0.383677	
0.000341	-0.070037	-56.056769		
0.28170	-6.780319	81.579342	-0.383677	
0.000341	0.090873	-90.270184		
0.42255	-6.780319	81.579342	-0.383677	
0.000341	0.251782	-124.483598		
0.56340	-6.780319	81.579342	-0.383677	
0.000341	0.412692	-158.697012		

ELEM 354 ========== LENGTH = 2.976714

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43672	-3.203496	36.842180	-0.708970	
-0.000356	-0.800782	37.851338		
0.57754	-3.203496	36.842180	-0.708970	
-0.000356	-0.503597	22.407892		
0.71836	-3.203496	36.842180	-0.708970	
-0.000356	-0.206412	6.964445		
0.85918	-3.203496	36.842180	-0.708970	
-0.000356	0.090773	-8.479001		
1.00000	-3.203496	36.842180	-0.708970	
-0.000356	0.387958	-23.922448		

ELEM 355 ========== LENGTH = 2.977709

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-4.690016	60.549840	-0.752728	
-0.000562	-0.419142	-23.828627		
0.14086	-4.690016	60.549840	-0.752728	
-0.000562	-0.103428	-49.224875		
0.28171	-4.690016	60.549840	-0.752728	
-0.000562	0.212287	-74.621123		
0.42257	-4.690016	60.549840	-0.752728	
-0.000562	0.528001	-100.01737		

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.56342	-4.690016	60.549840	-0.752728	
-0.000562	0.843716	-125.413619		

ELEM 356 ========== LENGTH = 2.977856

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43656	-0.175462	5.453508	-0.893944	
-0.000488	-1.005496	-21.521537		
0.57742	-0.175462	5.453508	-0.893944	
-0.000488	-0.630519	-23.809088		
0.71828	-0.175462	5.453508	-0.893944	
-0.000488	-0.255542	-26.096639		
0.85914	-0.175462	5.453508	-0.893944	
-0.000488	0.119435	-28.384190		
1.00000	-0.175462	5.453508	-0.893944	
-0.000488	0.494412	-30.671741		

ELEM 357 ========== LENGTH = 2.976946

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-1.536978	27.897146	-0.928537	
-0.000514	-0.518194	-30.615593		
0.14083	-1.536978	27.897146	-0.928537	
-0.000514	-0.128917	-42.311093		
0.28166	-1.536978	27.897146	-0.928537	
-0.000514	0.260360	-54.006593		
0.42248	-1.536978	27.897146	-0.928537	
-0.000514	0.649637	-65.702094		
0.56331	-1.536978	27.897146	-0.928537	
-0.000514	1.038913	-77.397594		

ELEM 358 ========== LENGTH = 2.977254

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43664	1.389949	-13.304805	-0.870515	
-0.000380	-0.976617	-58.693120		
0.57748	1.389949	-13.304805	-0.870515	
-0.000380	-0.611598	-53.114236		
0.71832	1.389949	-13.304805	-0.870515	
-0.000380	-0.246579	-47.535352		
0.85916	1.389949	-13.304805	-0.870515	
-0.000380	0.118439	-41.956469		
1.00000	1.389949	-13.304805	-0.870515	
-0.000380	0.483458	-36.377585		

ELEM 359 ========== LENGTH = 2.977165

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.069487	9.241212	-0.884329	
-0.000386	-0.492798	-36.348754		
0.14084	0.069487	9.241212	-0.884329	
-0.000386	-0.122006	-40.223512		
0.28167	0.069487	9.241212	-0.884329	
-0.000386	0.248785	-44.098271		
0.42251	0.069487	9.241212	-0.884329	
-0.000386	0.619576	-47.973029		
0.56334	0.069487	9.241212	-0.884329	
-0.000386	0.990367	-51.847788		

ELEM 360 ========== LENGTH = 2.977638

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43659	1.719177	-21.191657	-0.655387	
-0.000246	-0.735305	-75.738841		

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57744	1.719177	-21.191657	-0.655387	
-0.000246	-0.460430	-66.850860		
0.71829	1.719177	-21.191657	-0.655387	
-0.000246	-0.185555	-57.962880		
0.85915	1.719177	-21.191657	-0.655387	
-0.000246	0.089321	-49.074899		
1.00000	1.719177	-21.191657	-0.655387	
-0.000246	0.364196	-40.186919		

ELEM 361 ========== LENGTH = 2.977543

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.451256	1.096120	-0.661424	
-0.000229	-0.368583	-40.184118		
0.14085	0.451256	1.096120	-0.661424	
-0.000229	-0.091191	-40.643815		
0.28170	0.451256	1.096120	-0.661424	
-0.000229	0.186201	-41.103512		
0.42255	0.451256	1.096120	-0.661424	
-0.000229	0.463593	-41.563210		
0.56340	0.451256	1.096120	-0.661424	
-0.000229	0.740985	-42.022907		

ELEM 362 ========== LENGTH = 2.977005

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43668	1.548285	-23.974519	-0.299331	
-0.000113	-0.336891	-81.894081		
0.57751	1.548285	-23.974519	-0.299331	
-0.000113	-0.211396	-71.842735		
0.71834	1.548285	-23.974519	-0.299331	
-0.000113	-0.085901	-61.791389		
0.85917	1.548285	-23.974519	-0.299331	
-0.000113	0.039594	-51.740042		
1.00000	1.548285	-23.974519	-0.299331	
-0.000113	0.165090	-41.688696		

ELEM 363 ========== LENGTH = 2.977005

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.300564	-1.630844	-0.307302	
-8.14E-05	-0.171809	-41.701602		
0.14083	0.300564	-1.630844	-0.307302	
-8.14E-05	-0.042972	-41.017869		
0.28166	0.300564	-1.630844	-0.307302	
-8.14E-05	0.085865	-40.334136		
0.42249	0.300564	-1.630844	-0.307302	
-8.14E-05	0.214702	-39.650402		
0.56332	0.300564	-1.630844	-0.307302	
-8.14E-05	0.343538	-38.966669		

ELEM 364 ========== LENGTH = 2.977432

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43662	1.431362	-24.877680	0.134273	
3.11E-05	0.146756	-83.048759		
0.57746	1.431362	-24.877680	0.134273	
3.11E-05	0.090447	-72.616105		
0.71831	1.431362	-24.877680	0.134273	
3.11E-05	0.034139	-62.183451		
0.85915	1.431362	-24.877680	0.134273	
3.11E-05	-0.022170	-51.750796		
1.00000	1.431362	-24.877680	0.134273	
3.11E-05	-0.078478	-41.318142		

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 365 ========== LENGTH = 2.977536

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.194792	-2.549174	0.116876	
4.05E-05	0.063859	-41.338316		
0.14085	0.194792	-2.549174	0.116876	
4.05E-05	0.014843	-40.269234		
0.28170	0.194792	-2.549174	0.116876	
4.05E-05	-0.034173	-39.200151		
0.42255	0.194792	-2.549174	0.116876	
4.05E-05	-0.083189	-38.131069		
0.56340	0.194792	-2.549174	0.116876	
4.05E-05	-0.132205	-37.061986		

ELEM 366 ========== LENGTH = 2.978143

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	1.753307	-24.887949	0.583142	
0.000162	0.647651	-80.803422		
0.57739	1.753307	-24.887949	0.583142	
0.000162	0.403002	-70.362040		
0.71826	1.753307	-24.887949	0.583142	
0.000162	0.158353	-59.920657		
0.85913	1.753307	-24.887949	0.583142	
0.000162	-0.086296	-49.479275		
1.00000	1.753307	-24.887949	0.583142	
0.000162	-0.330944	-39.037892		

ELEM 367 ========== LENGTH = 2.977041

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.508325	-2.479043	0.553264	
0.000189	0.305803	-39.055263		
0.14083	0.508325	-2.479043	0.553264	
0.000189	0.073842	-38.015898		
0.28166	0.508325	-2.479043	0.553264	
0.000189	-0.158120	-36.976534		
0.42249	0.508325	-2.479043	0.553264	
0.000189	-0.390082	-35.937169		
0.56332	0.508325	-2.479043	0.553264	
0.000189	-0.622043	-34.897805		

ELEM 368 ========== LENGTH = 2.977720

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658	2.451314	-21.632990	0.989961	
0.000361	1.099152	-71.024563		
0.57743	2.451314	-21.632990	0.989961	
0.000361	0.683933	-61.951040		
0.71829	2.451314	-21.632990	0.989961	
0.000361	0.268713	-52.877518		
0.85914	2.451314	-21.632990	0.989961	
0.000361	-0.146506	-43.803995		
1.00000	2.451314	-21.632990	0.989961	
0.000361	-0.561725	-34.730472		

ELEM 369 ========== LENGTH = 2.976842

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	1.192801	0.840431	0.951285	
0.000323	0.528723	-34.739527		
0.14082	1.192801	0.840431	0.951285	
0.000323	0.129934	-35.091845		
0.28165	1.192801	0.840431	0.951285	
0.000323	-0.268855	-35.444162		
0.42247	1.192801	0.840431	0.951285	
0.000323	-0.667643	-35.796480		

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.56330	1.192801	0.840431	0.951285	
0.000323	-1.066432	-36.148798		

ELEM 370 ========== LENGTH = 2.976491

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43676	2.287392	-10.526410	1.276899	
0.000460	1.437750	-45.302320		
0.57757	2.287392	-10.526410	1.276899	
0.000460	0.902573	-40.890462		
0.71838	2.287392	-10.526410	1.276899	
0.000460	0.367395	-36.478603		
0.85919	2.287392	-10.526410	1.276899	
0.000460	-0.167782	-32.066745		
1.00000	2.287392	-10.526410	1.276899	
0.000460	-0.702960	-27.654886		

ELEM 371 ========== LENGTH = 2.977482

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.935009	12.197143	1.252664	
0.000663	0.679749	-27.649776		
0.14085	0.935009	12.197143	1.252664	
0.000663	0.154419	-32.764899		
0.28169	0.935009	12.197143	1.252664	
0.000663	-0.370912	-37.880022		
0.42254	0.935009	12.197143	1.252664	
0.000663	-0.896242	-42.995144		
0.56339	0.935009	12.197143	1.252664	
0.000663	-1.421573	-48.110267		

ELEM 372 ========== LENGTH = 2.977322

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663	-3.066428	20.472207	1.927687	
0.001031	1.894202	14.419463		
0.57748	-3.066428	20.472207	1.927687	
0.001031	1.085864	5.834842		
0.71832	-3.066428	20.472207	1.927687	
0.001031	0.277526	-2.749778		
0.85916	-3.066428	20.472207	1.927687	
0.001031	-0.530812	-11.334399		
1.00000	-3.066428	20.472207	1.927687	
0.001031	-1.339150	-19.919020		

ELEM 373 ========== LENGTH = 2.977322

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-1.535757	38.198036	1.962729	
0.000554	1.356967	-19.908373		
0.14084	-1.535757	38.198036	1.962729	
0.000554	0.533935	-35.925974		
0.28168	-1.535757	38.198036	1.962729	
0.000554	-0.289097	-51.943575		
0.42252	-1.535757	38.198036	1.962729	
0.000554	-1.112129	-67.961176		
0.56337	-1.535757	38.198036	1.962729	
0.000554	-1.935161	-83.978777		

ELEM 374 ========== LENGTH = 2.977946

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43654	-2.978471	48.995543	1.702090	
0.000780	1.771748	57.122108		

< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57741	-2.978471	48.995543	1.702090	
0.000780	1.057744	36.569142		
0.71827	-2.978471	48.995543	1.702090	
0.000780	0.343741	16.016176		
0.85914	-2.978471	48.995543	1.702090	
0.000780	-0.370263	-4.536790		
1.00000	-2.978471	48.995543	1.702090	
0.000780	-1.084266	-25.089757		

ELEM 375 ========== LENGTH = 2.976830

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.900819	49.948341	1.750544	
0.000859	1.110821	-25.088638		
0.14082	-5.900819	49.948341	1.750544	
0.000859	0.376980	-46.027358		
0.28165	-5.900819	49.948341	1.750544	
0.000859	-0.356861	-66.966077		
0.42247	-5.900819	49.948341	1.750544	
0.000859	-1.090702	-87.904797		
0.56329	-5.900819	49.948341	1.750544	
0.000859	-1.824543	-108.843517		

ELEM 376 ========== LENGTH = 4.475174

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.089092	-7.304627	0.253539	
-0.000261	0.599401	-0.035528		
0.25000	0.089092	-3.331791	0.253539	
-0.000261	0.315742	5.914451		
0.50000	0.089092	0.641045	0.253539	
-0.000261	0.032084	7.419646		
0.75000	0.089092	4.613881	0.253539	
-0.000261	-0.251574	4.480057		
1.00000	0.089092	8.586717	0.253539	
-0.000261	-0.535233	-2.904315		

ELEM 377 ========== LENGTH = 4.972248

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.130716	-9.420075	0.148298	
-0.000111	0.386514	-2.959242		
0.25000	0.130716	-5.005962	0.148298	
-0.000111	0.202170	6.006988		
0.50000	0.130716	-0.591849	0.148298	
-0.000111	0.017826	9.486201		
0.75000	0.130716	3.822264	0.148298	
-0.000111	-0.166517	7.478397		
1.00000	0.130716	8.236377	0.148298	
-0.000111	-0.350861	-0.016423		

ELEM 378 ========== LENGTH = 4.973312

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.104512	-9.094349	0.092486	
-2.06E-05	0.257282	-0.047094		
0.25000	0.104512	-4.679291	0.092486	
-2.06E-05	0.142291	8.515483		
0.50000	0.104512	-0.264232	0.092486	
-2.06E-05	0.027300	11.588693		
0.75000	0.104512	4.150826	0.092486	
-2.06E-05	-0.087690	9.172538		
1.00000	0.104512	8.565884	0.092486	
-2.06E-05	-0.202681	1.267017		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page 92
< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 379 ========== LENGTH = 4.972517

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.056945	-8.823118	0.022950	
-6.07E-06	0.086486	1.250659		
0.25000	0.056945	-4.408766	0.022950	
-6.07E-06	0.057956	9.475131		
0.50000	0.056945	0.005586	0.022950	
-6.07E-06	0.029426	12.211992		
0.75000	0.056945	4.419939	0.022950	
-6.07E-06	0.000896	9.461241		
1.00000	0.056945	8.834291	0.022950	
-6.07E-06	-0.027634	1.222880		

ELEM 380 ========== LENGTH = 4.972947

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.020082	-8.462515	-0.045178	
-1.71E-05	-0.086063	1.226393		
0.25000	0.020082	-4.047781	-0.045178	
-1.71E-05	-0.029896	9.003024		
0.50000	0.020082	0.366953	-0.045178	
-1.71E-05	0.026272	11.291094		
0.75000	0.020082	4.781687	-0.045178	
-1.71E-05	0.082439	8.090604		
1.00000	0.020082	9.196421	-0.045178	
-1.71E-05	0.138607	-0.598445		

ELEM 381 ========== LENGTH = 4.972401

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.001810	-8.088206	-0.098161	
-1.82E-06	-0.227124	-0.576558		
0.25000	0.001810	-3.673957	-0.098161	
-1.82E-06	-0.105100	6.734216		
0.50000	0.001810	0.740292	-0.098161	
-1.82E-06	0.016924	8.557636		
0.75000	0.001810	5.154540	-0.098161	
-1.82E-06	0.138948	4.893702		
1.00000	0.001810	9.568789	-0.098161	
-1.82E-06	0.260973	-4.257584		

ELEM 382 ========== LENGTH = 4.972976

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.004917	-7.944817	-0.122992	
7.64E-05	-0.302684	-4.217835		
0.25000	-0.004917	-3.530058	-0.122992	
7.64E-05	-0.149774	2.915200		
0.50000	-0.004917	0.884702	-0.122992	
7.64E-05	0.003135	4.559612		
0.75000	-0.004917	5.299461	-0.122992	
7.64E-05	0.156045	0.715400		
1.00000	-0.004917	9.714221	-0.122992	
7.64E-05	0.308955	-8.617435		

ELEM 383 ========== LENGTH = 4.972683

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.017735	-7.743139	-0.110621	
0.000192	-0.288486	-8.582007		
0.25000	-0.017735	-3.328640	-0.110621	
0.000192	-0.150965	-1.699951		
0.50000	-0.017735	1.085859	-0.110621	
0.000192	-0.013444	-0.305870		
0.75000	-0.017735	5.500358	-0.110621	
0.000192	0.124076	-4.399766		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page 93
< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
1.00000	-0.017735	9.914857	-0.110621	
0.000192	0.261597	-13.981637		

ELEM 384 ========== LENGTH = 4.972600

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.043748	-8.531924	-0.059001	
0.000149	-0.175258	-13.955696		
0.25000	-0.043748	-4.117499	-0.059001	
0.000149	-0.101910	-6.093131		
0.50000	-0.043748	0.296927	-0.059001	
0.000149	-0.028563	-3.718359		
0.75000	-0.043748	4.711352	-0.059001	
0.000149	0.044785	-6.831380		
1.00000	-0.043748	9.125778	-0.059001	
0.000149	0.118133	-15.432194		

ELEM 385 ========== LENGTH = 3.481038

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.047271	-6.822521	0.008523	
-0.000141	-0.017480	-15.425385		
0.25000	-0.047271	-3.732229	0.008523	
-0.000141	-0.024897	-10.832699		
0.50000	-0.047271	-0.641937	0.008523	
-0.000141	-0.032314	-8.929369		
0.75000	-0.047271	2.448355	0.008523	
-0.000141	-0.039731	-9.715395		
1.00000	-0.047271	5.538647	0.008523	
-0.000141	-0.047148	-13.190778		

ELEM 386 ========== LENGTH = 4.973234

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.032849	-9.135264	0.057176	
-0.000198	0.121743	-13.202155		
0.25000	-0.032849	-4.720275	0.057176	
-0.000198	0.050656	-4.588800		
0.50000	-0.032849	-0.305287	0.057176	
-0.000198	-0.020431	-1.464638		
0.75000	-0.032849	4.109702	0.057176	
-0.000198	-0.091518	-3.829669		
1.00000	-0.032849	8.524690	0.057176	
-0.000198	-0.162605	-11.683892		

ELEM 387 ========== LENGTH = 4.972333

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.034025	-9.826622	0.088490	
-9.53E-05	0.214239	-11.706128		
0.25000	-0.034025	-5.412433	0.088490	
-9.53E-05	0.104239	-2.234420		
0.50000	-0.034025	-0.998244	0.088490	
-9.53E-05	0.005762	1.750084		
0.75000	-0.034025	3.415945	0.088490	
-9.53E-05	-0.115762	0.247382		
1.00000	-0.034025	7.830134	0.088490	
-9.53E-05	-0.225762	-6.742524		

ELEM 388 ========== LENGTH = 4.972697

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.050470	-9.563197	0.084124	
-6.05E-06	0.217525	-6.768615		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page 94
< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000	-0.050470	-5.148685	0.084124	
-6.05E-06	0.112944	2.376101		
0.50000	-0.050470	-0.734172	0.084124	
-6.05E-06	0.008363	6.032810		
0.75000	-0.050470	3.680340	0.084124	
-6.05E-06	-0.096218	4.201510		
1.00000	-0.050470	8.094852	0.084124	
-6.05E-06	-0.200799	-3.117798		

ELEM 389 ========== LENGTH = 4.973117

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.066580	-9.244444	0.049943	
1.98E-05	0.142748	-3.129948		
0.25000	-0.066580	-4.829559	0.049943	
1.98E-05	0.080655	5.619011		
0.50000	-0.066580	-0.414514	0.049943	
1.98E-05	0.018562	8.879034		
0.75000	-0.066580	4.000211	0.049943	
1.98E-05	-0.043531	6.650122		
1.00000	-0.066580	8.415096	0.049943	
1.98E-05	-0.105624	-1.067725		

ELEM 390 ========== LENGTH = 4.972665

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.074788	-8.840110	-0.000740	
6.03E-07	0.020129	-1.065468		
0.25000	-0.074788	-4.425626	-0.000740	
6.03E-07	0.021050	7.180290		
0.50000	-0.074788	-0.011143	-0.000740	
6.03E-07	0.021970	9.938111		
0.75000	-0.074788	4.403341	-0.000740	
6.03E-07	0.022890	7.207994		
1.00000	-0.074788	8.817825	-0.000740	
6.03E-07	0.023811	-1.010060		

ELEM 391 ========== LENGTH = 4.973388

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.072355	-8.445056	-0.051856	
-1.87E-05	-0.109965	-1.001541		
0.25000	-0.072355	-4.029930	-0.051856	
-1.87E-05	-0.045490	6.753829		
0.50000	-0.072355	0.385195	-0.051856	
-1.87E-05	0.018985	9.019664		
0.75000	-0.072355	4.800321	-0.051856	
-1.87E-05	0.083460	5.795966		
1.00000	-0.072355	9.215447	-0.051856	
-1.87E-05	0.147935	-2.917266		

ELEM 392 ========== LENGTH = 4.972139

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.062885	-8.097882	-0.087233	
8.64E-06	-0.207796	-2.904720		
0.25000	-0.062885	-3.683666	-0.087233	
8.64E-06	-0.099363	4.417841		
0.50000	-0.062885	0.730151	-0.087233	
8.64E-06	0.009070	6.253626		
0.75000	-0.062885	5.144167	-0.087233	
8.64E-06	0.117503	2.602635		
1.00000	-0.062885	9.558183	-0.087233	
8.64E-06	0.225936	-6.535131		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page 95
< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 393 ========== LENGTH = 4.973104

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.051671	-7.892553	-0.093456	
9.62E-05	-0.237017	-6.507255		
0.25000	-0.051671	-3.477660	-0.093456	
9.62E-05	-0.120826	0.560914		
0.50000	-0.051671	0.937194	-0.093456	
9.62E-05	-0.004635	2.140177		
0.75000	-0.051671	5.352067	-0.093456	
9.62E-05	0.111556	-1.769467		
1.00000	-0.051671	9.766940	-0.093456	
9.62E-05	0.227748	-11.168016		

ELEM 394 ========== LENGTH = 4.972151

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.053839	-8.376289	-0.063817	
0.000190	-0.178551	-11.143965		
0.25000	-0.053839	-3.962262	-0.063817	
0.000190	-0.099224	-3.475322		
0.50000	-0.053839	0.451766	-0.063817	
0.000190	-0.019996	-1.293482		
0.75000	-0.053839	4.865793	-0.063817	
0.000190	0.059431	-4.598446		
1.00000	-0.053839	9.279820	-0.063817	
0.000190	0.138759	-13.390212		

ELEM 395 ========== LENGTH = 3.481707

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.070489	-6.520938	-0.028907	
0.000124	-0.079093	-13.378068		
0.25000	-0.070489	-3.430053	-0.028907	
0.000124	-0.053932	-9.047264		
0.50000	-0.070489	-0.339168	-0.028907	
0.000124	-0.028770	-7.406849		
0.75000	-0.070489	2.751717	-0.028907	
0.000124	-0.003609	-8.456822		
1.00000	-0.070489	5.842602	-0.028907	
0.000124	0.021552	-12.197184		

ELEM 396 ========== LENGTH = 3.480352

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.074634	-5.868176	0.075319	
-0.000128	0.101319	-12.201984		
0.25000	-0.074634	-2.778494	0.075319	
-0.000128	0.035784	-8.440302		
0.50000	-0.074634	0.311189	0.075319	
-0.000128	-0.029750	-7.366915		
0.75000	-0.074634	3.400871	0.075319	
-0.000128	-0.095284	-8.981825		
1.00000	-0.074634	6.490554	0.075319	
-0.000128	-0.160819	-13.285030		

ELEM 397 ========== LENGTH = 4.973376

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.065177	-9.319987	0.087858	
-0.000194	0.198296	-13.307986		
0.25000	-0.065177	-4.904872	0.087858	
-0.000194	0.089059	-4.464789		
0.50000	-0.065177	-0.489757	0.087858	
-0.000194	-0.020179	1.111099		
0.75000	-0.065177	3.925358	0.087858	
-0.000194	-0.129416	-3.246915		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page 96
< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
1.00000	-0.065177	8.340473	0.087858	
-0.000194	-0.238653	-10.872239		

ELEM 398 ========== LENGTH = 4.972851

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.069927	-9.793641	0.117190	
-0.000100	0.287698	-10.905281		
0.25000	-0.069927	-5.378993	0.117190	
-0.000100	0.142005	-1.473875		
0.50000	-0.069927	-0.964344	0.117190	
-0.000100	-0.003687	2.469184		
0.75000	-0.069927	3.450304	0.117190	
-0.000100	-0.149380	0.923895		
1.00000	-0.069927	7.864953	0.117190	
-0.000100	-0.295072	-6.109741		

ELEM 399 ========== LENGTH = 4.972465

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.087513	-9.702216	0.107949	
-1.18E-05	0.279582	-6.149460		
0.25000	-0.087513	-5.287910	0.107949	
-1.18E-05	0.145389	3.167774		
0.50000	-0.087513	-0.873604	0.107949	
-1.18E-05	0.011196	6.997514		
0.75000	-0.087513	3.540701	0.107949	
-1.18E-05	-0.122997	5.339758		
1.00000	-0.087513	7.955007	0.107949	
-1.18E-05	-0.257190	-1.805493		

ELEM 400 ========== LENGTH = 4.973177

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.103093	-9.300109	0.065974	
1.72E-05	0.187195	-1.832019		
0.25000	-0.103093	-4.885171	0.065974	
1.72E-05	0.105130	6.986220		
0.50000	-0.103093	-0.470233	0.065974	
1.72E-05	0.023105	10.315391		
0.75000	-0.103093	3.944706	0.065974	
1.72E-05	-0.058921	8.155495		
1.00000	-0.103093	8.359644	0.065974	
1.72E-05	-0.140946	0.506531		

ELEM 401 ========== LENGTH = 4.972033

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.109396	-8.856579	0.005007	
-9.61E-07	0.033389	0.485894		
0.25000	-0.109396	-4.442657	0.005007	
-9.61E-07	0.033165	8.751423		
0.50000	-0.109396	-0.028735	0.005007	
-9.61E-07	0.026941	11.530410		
0.75000	-0.109396	4.385187	0.005007	
-9.61E-07	0.020718	8.822857		
1.00000	-0.109396	8.799169	0.005007	
-9.61E-07	0.014494	0.628764		

ELEM 402 ========== LENGTH = 4.973005

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.104667	-8.415458	-0.056869	
-1.87E-05	-0.117448	0.636656		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page 97
< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000	-0.104667	-4.000673	-0.056869	
-1.87E-05	-0.046746	8.354841		
0.50000	-0.104667	0.414112	-0.056869	
-1.87E-05	0.023956	10.584340		
0.75000	-0.104667	4.828897	-0.056869	
-1.87E-05	0.094659	7.325151		
1.00000	-0.104667	9.243682	-0.056869	
-1.87E-05	0.165361	-1.422724		

ELEM 403 ========== LENGTH = 4.973103

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.090928	-7.978285	-0.101116	
1.10E-05	-0.238841	-1.399813		
0.25000	-0.090928	-3.563413	-0.101116	
1.10E-05	-0.113125	5.776144		
0.50000	-0.090928	0.851459	-0.101116	
1.10E-05	0.012591	7.461998		
0.75000	-0.090928	5.266331	-0.101116	
1.10E-05	0.138306	3.658948		
1.00000	-0.090928	9.681202	-0.101116	
1.10E-05	0.264022	-5.633005		

ELEM 404 ========== LENGTH = 4.972327

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.076814	-7.904728	-0.113661	
0.000101	-0.284475	-5.605637		
0.25000	-0.076814	-3.490545	-0.113661	
0.000101	-0.143184	1.476990		
0.50000	-0.076814	0.923638	-0.113661	
0.000101	-0.001894	3.072427		
0.75000	-0.076814	5.337821	-0.113661	
0.000101	0.139396	-0.819326		
1.00000	-0.076814	9.752004	-0.113661	
0.000101	0.280687	-10.198269		

ELEM 405 ========== LENGTH = 4.972676

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.074397	-8.353715	-0.088279	
0.000195	-0.237484	-10.165715		
0.25000	-0.074397	-3.939222	-0.088279	
0.000195	-0.127738	-2.524616		
0.50000	-0.074397	0.475272	-0.088279	
0.000195	-0.017992	-0.371478		
0.75000	-0.074397	4.889165	-0.088279	
0.000195	0.091754	-3.706301		
1.00000	-0.074397	9.304258	-0.088279	
0.000195	0.201500	-12.529086		

ELEM 406 ========== LENGTH = 3.480724

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.085371	-6.493425	-0.082989	
0.000130	-0.172564	-12.506393		
0.25000	-0.085371	-3.403412	-0.082989	
0.000130	-0.100049	-8.200373		
0.50000	-0.085371	-0.313399	-0.082989	
0.000130	-0.027833	-6.583223		
0.75000	-0.085371	2.776614	-0.082989	
0.000130	0.044383	-7.654945		
1.00000	-0.085371	5.866627	-0.082989	
0.000130	0.116599	-11.415537		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1502.OUT

Page 98
< AFTER COMPOSITE SELF-WEIGHT LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 407 ========== LENGTH = 3.481038

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.083727	-5.805141	0.015702	
-0.000120	0.000788	-11.409945		
0.25000	-0.083727	-2.714849	0.015702	
-0.000120	-0.012877	-7.702694		
0.50000	-0.083727	0.375442	0.015702	
-0.000120	-0.026543	-6.684748		
0.75000	-0.083727	3.465734	0.015702	
-0.000120	-0.040208	-8.356158		
1.00000	-0.083727	6.556025	0.015702	
-0.000120	-0.053873	-12.716923		

ELEM 408 ========== LENGTH = 4.972999

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.068478	-9.223376	0.054034	
-0.000186	0.116251	-12.727345		
0.25000	-0.068478	-4.808596	0.054034	
-0.000186	0.049073	-4.004722		
0.50000	-0.068478	-0.393816	0.054034	
-0.000186	-0.018105	-0.770774		
0.75000	-0.068478	4.020964	0.054034	
-0.000186	-0.085283	-3.025500		
1.00000	-0.068478	8.435745	0.054034	
-0.000186	-0.152461	-10.768900		

ELEM 409 ========== LENGTH = 4.972771

LOAD AFTER ----------

REL	DIST	P	V2	V3
	T	M2	M3	

0.00000	-0.067413	-9.681920	0.081655
-9.27E-05	0.198778	-10.789625	
0.25000	-0.067413	-5.267342	0.081655
-9.27E-05	0.097265	-1.497218	
0.50000	-0.067413	-0.852764	0.081655
-9.27E-05	-0.004248	2.307018	
0.75000	-0.067413	3.561814	0.081655
-9.27E-05	-0.105761	0.623082	
1.00000	-0.067413	7.976392	0.081655
-9.27E-05	-0.207275	-6.549025	

ELEM 410 ========== LENGTH = 4.972670

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.079172	-9.521502	0.075740
-5.41E-06	0.196883	-6.573131	
0.25000	-0.079172	-5.107014	0.075740
-5.41E-06	0.102725	2.519716	
0.50000	-0.079172	-0.692527	0.075740
-5.41E-06	0.008568	6.124617	
0.75000	-0.079172	3.721960	0.075740
-5.41E-06	-0.085589	4.241571	
1.00000	-0.079172	8.136448	0.075740
-5.41E-06	-0.179747	-3.129422	

ELEM 411 ========== LENGTH = 4.972693

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.091430	-9.138009	0.042266
2.06E-05	0.122848	-3.138733	
0.25000	-0.091430	-4.723501	0.042266
2.06E-05	0.070304	5.477397	
0.50000	-0.091430	-0.308992	0.042266
2.06E-05	0.017761	8.605527	
0.75000	-0.091430	4.105517	0.042266
2.06E-05	-0.034783	6.245658	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1502.OUT

Page 99

< AFTER COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
1.00000	-0.091430	8.520025	0.042266
2.06E-05	-0.087327	-1.602210	

ELEM 412 ========== LENGTH = 4.972843

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.097399	-8.706391	-0.004762
-2.13E-06	0.007437	-1.597976	
0.25000	-0.097399	-4.291749	-0.004762
-2.13E-06	0.013357	6.481738	
0.50000	-0.097399	0.122892	-0.004762
-2.13E-06	0.019276	9.073122	
0.75000	-0.097399	4.537534	-0.004762
-2.13E-06	0.025196	6.176176	
1.00000	-0.097399	8.952176	-0.004762
-2.13E-06	0.031115	-2.209101	

ELEM 413 ========== LENGTH = 4.973066

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093718	-8.265620	-0.047361
-2.59E-05	-0.103974	-2.191111	
0.25000	-0.093718	-3.850781	-0.047361
-2.59E-05	-0.045091	5.340846	
0.50000	-0.093718	0.564058	-0.047361
-2.59E-05	0.013791	7.383982	
0.75000	-0.093718	4.978897	-0.047361
-2.59E-05	0.072674	3.938298	
1.00000	-0.093718	9.393736	-0.047361
-2.59E-05	0.131557	-4.996208	

ELEM 414 ========== LENGTH = 4.972522

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.080705	-8.054540	-0.069217
-4.79E-07	-0.170102	-4.977802	
0.25000	-0.080705	-3.640184	-0.069217
-4.79E-07	-0.084057	2.291232	
0.50000	-0.080705	0.774173	-0.069217
-4.79E-07	0.001989	4.072645	
0.75000	-0.080705	5.188529	-0.069217
-4.79E-07	0.088034	0.366436	
1.00000	-0.080705	9.602886	-0.069217
-4.79E-07	0.174080	-8.827394	

ELEM 415 ========== LENGTH = 4.972986

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.060032	-7.767350	-0.058388
9.08E-05	-0.158179	-8.807935	
0.25000	-0.060032	-3.352581	-0.058388
9.08E-05	-0.085588	-1.895527	
0.50000	-0.060032	1.062188	-0.058388
9.08E-05	-0.012997	-0.471765	
0.75000	-0.060032	5.476957	-0.058388
9.08E-05	0.059594	-4.536650	
1.00000	-0.060032	9.891725	-0.058388
9.08E-05	0.132185	-14.090180	

ELEM 416 ========== LENGTH = 4.972637

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.042287	-8.536118	-0.012729
0.000200	-0.057989	-14.079043	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1502.OUT

Page 100

< AFTER COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.042287	-4.121660	-0.012729
0.000200	-0.042165	-6.211226	
0.50000	-0.042287	0.292799	-0.012729
0.000200	-0.026342	-3.831284	
0.75000	-0.042287	4.707258	-0.012729
0.000200	-0.010518	-6.939218	
1.00000	-0.042287	9.121716	-0.012729
0.000200	0.005306	-15.535026	

ELEM 417 ========== LENGTH = 3.481206

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.036666	-5.535767	0.105154
0.000147	0.143941	-15.543039	
0.25000	-0.036666	-2.445326	0.105154
0.000147	0.052425	-12.070060	
0.50000	-0.036666	0.645114	0.105154
0.000147	-0.039090	-11.286697	
0.75000	-0.036666	3.735554	0.105154
0.000147	-0.130606	-13.192948	
1.00000	-0.036666	6.825995	0.105154
0.000147	-0.222122	-17.788813	

ELEM 418 ========== LENGTH = 4.972694

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.041920	-9.273585	0.128799
-0.000148	0.283205	-17.819720	
0.25000	-0.041920	-4.859075	0.128799
-0.000148	0.123086	-9.035046	
0.50000	-0.041920	-0.444566	0.128799
-0.000148	-0.037034	-5.738372	
0.75000	-0.041920	3.969943	0.128799
-0.000148	-0.197154	-7.929700	
1.00000	-0.041920	8.384453	0.128799
-0.000148	-0.357273	-15.609030	

ELEM 419 ========== LENGTH = 4.972684

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.058257	-10.083512	0.194322
-0.000186	0.465573	-15.658197	
0.25000	-0.058257	-5.669012	0.194322
-0.000186	0.223997	-5.866657	
0.50000	-0.058257	-1.254511	0.194322
-0.000186	-0.017579	-1.563095	
0.75000	-0.058257	3.159989	0.194322
-0.000186	-0.259154	-2.747512	
1.00000	-0.058257	7.574489	0.194322
-0.000186	-0.500730	-9.419908	

ELEM 420 ========== LENGTH = 4.972800

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.080122	-9.947576	0.212443
-6.26E-05	0.530284	-9.481670	
0.25000	-0.080122	-5.532973	0.212443
-6.26E-05	0.266174	0.141039	
0.50000	-0.080122	-1.118369	0.212443
-6.26E-05	0.002065	4.275513	
0.75000	-0.080122	3.296234	0.212443
-6.26E-05	-0.262045	2.921753	
1.00000	-0.080122	7.710837	0.212443
-6.26E-05	-0.526154	-3.920243	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1502.OUT

Page 101

< AFTER COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 421 ========== LENGTH = 4.972951

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.094577	-9.829161	0.185655
2.22E-05	0.481287	-3.980625	
0.25000	-0.094577	-5.414424	0.185655
2.22E-05	0.250474	5.495075	
0.50000	-0.094577	-0.999687	0.185655
2.22E-05	0.019660	9.482207	
0.75000	-0.094577	3.415050	0.185655
2.22E-05	-0.211153	7.980771	
1.00000	-0.094577	7.829788	0.185655
2.22E-05	-0.441967	0.990768	

ELEM 422 ========== LENGTH = 4.972416

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.090839	-9.449513	0.121894
4.23E-05	0.336184	0.945041	
0.25000	-0.090839	-5.035250	0.121894
4.23E-05	0.184658	9.948075	
0.50000	-0.090839	-0.620987	0.121894
4.23E-05	0.033131	13.463721	
0.75000	-0.090839	3.793275	0.121894
4.23E-05	-0.118396	11.491979	
1.00000	-0.090839	8.207538	0.121894
4.23E-05	-0.269923	4.032849	

ELEM 423 ========== LENGTH = 4.972811

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.068963	-9.105956	0.033685
2.22E-05	0.124085	4.008075	
0.25000	-0.068963	-4.691344	0.033685
2.22E-05	0.082208	12.584494	
0.50000	-0.068963	-0.276731	0.033685
2.22E-05	0.040331	15.672656	
0.75000	-0.068963	4.137881	0.033685
2.22E-05	-0.001546	13.272560	
1.00000	-0.068963	8.552494	0.033685
2.22E-05	-0.043424	5.384206	

ELEM 424 ========== LENGTH = 4.973321

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023823	-8.755274	-0.064943
-6.30E-06	-0.119422	5.387541	
0.25000	-0.023823	-4.340208	-0.064943
-6.30E-06	-0.038677	13.528546	
0.50000	-0.023823	0.074858	-0.064943
-6.30E-06	0.042068	16.180165	
0.75000	-0.023823	4.489924	-0.064943
-6.30E-06	0.122813	13.342399	
1.00000	-0.023823	8.904990	-0.064943
-6.30E-06	0.203558	5.015247	

ELEM 425 ========== LENGTH = 4.972184

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.040008	-8.464238	-0.160942
-1.49E-05	-0.362079	5.038699	
0.25000	0.040008	-4.050181	-0.160942
-1.49E-05	-0.162021	12.816698	
0.50000	0.040008	0.363876	-0.160942
-1.49E-05	0.038037	15.107822	
0.75000	0.040008	4.777932	-0.160942
-1.49E-05	0.238095	11.912070	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1502.OUT

Page 102

< AFTER COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
1.00000	0.040008	9.191989	-0.160942
-1.49E-05	0.438154	3.229442	

ELEM 426 ========== LENGTH = 4.972939

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.107399	-8.277906	-0.247753
2.59E-05	-0.581718	3.297697	
0.25000	0.107399	-3.863179	-0.247753
2.59E-05	-0.273703	10.844806	
0.50000	0.107399	0.551547	-0.247753
2.59E-05	0.034313	12.903374	
0.75000	0.107399	4.966274	-0.247753
2.59E-05	0.342329	9.473401	
1.00000	0.107399	9.381000	-0.247753
2.59E-05	0.650344	0.554886	

ELEM 427 ========== LENGTH = 4.972939

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.129456	-8.207327	-0.259650
0.000148	-0.670555	0.633874	
0.25000	0.129456	-3.792601	-0.259650
0.000148	-0.347749	8.093238	
0.50000	0.129456	0.622126	-0.259650
0.000148	-0.024944	10.064061	
0.75000	0.129456	5.036852	-0.259650
0.000148	0.297862	6.546342	
1.00000	0.129456	9.451579	-0.259650
0.000148	0.620667	-2.459918	

ELEM 428 ========== LENGTH = 1.491642

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.068917	-4.107191	-2.753896
0.000264	-1.984212	-2.303346	
0.25000	0.068917	-2.782986	-2.753896
0.000264	-0.957255	-1.018636	
0.50000	0.068917	-1.458781	-2.753896
0.000264	0.069702	-0.227736	
0.75000	0.068917	-0.134576	-2.753896
0.000264	1.096658	0.069354	
1.00000	0.068917	1.189629	-2.753896
0.000264	2.123615	-0.127367	

ELEM 429 ========== LENGTH = 4.449003

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.056285	-9.185033	0.261294
0.000787	0.615259	-0.039357	
0.25000	-0.056285	-4.070904	0.261294
0.000787	0.324634	7.332606	
0.50000	-0.056285	1.043224	0.261294
0.000787	0.034010	9.016376	
0.75000	-0.056285	6.157353	0.261294
0.000787	-0.256614	5.011952	
1.00000	-0.056285	11.271482	0.261294
0.000787	-0.547238	-4.680665	

ELEM 430 ========== LENGTH = 4.942978

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.082636	-12.030946	0.154627
0.000459	0.400320	-4.745492	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1502.OUT

Page 103

< AFTER COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.082636	-6.348992	0.154627
0.000459	0.209241	6.610962	
0.50000	-0.082636	-0.667039	0.154627
0.000459	0.018161	10.945973	
0.75000	-0.082636	5.014914	0.154627
0.000459	-0.172919	8.259542	
1.00000	-0.082636	10.696868	0.154627
0.000459	-0.363998	-1.448333	

ELEM 431 ========== LENGTH = 4.943166

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.067261	-11.628703	0.100546
0.000213	0.276775	-1.496148	
0.25000	-0.067261	-5.946533	0.100546
0.000213	0.152521	9.363516	
0.50000	-0.067261	-0.264364	0.100546
0.000213	0.028267	13.201202	
0.75000	-0.067261	5.417805	0.100546
0.000213	-0.095986	10.016913	
1.00000	-0.067261	11.099975	0.100546
0.000213	-0.220240	-0.189353	

ELEM 432 ========== LENGTH = 4.942369

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.044248	-11.356046	0.031019
5.09E-05	0.107219	-0.208908	
0.25000	-0.044248	-5.674793	0.031019
5.09E-05	0.068893	10.312679	
0.50000	-0.044248	0.006460	0.031019
5.09E-05	0.030566	13.814553	
0.75000	-0.044248	5.687714	0.031019
5.09E-05	-0.007760	10.296714	
1.00000	-0.044248	11.368967	0.031019
5.09E-05	-0.046087	-0.240838	

ELEM 433 ========== LENGTH = 4.943793

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.030163	-10.981982	-0.038231
-7.63E-05	-0.066916	-0.226946	
0.25000	-0.030163	-5.299093	-0.038231
-7.63E-05	-0.019665	9.834336	
0.50000	-0.030163	0.383797	-0.038231
-7.63E-05	0.027587	12.871862	
0.75000	-0.030163	6.066686	-0.038231
-7.63E-05	0.074838	8.885630	
1.00000	-0.030163	11.749576	-0.038231
-7.63E-05	0.122090	-2.124358	

ELEM 434 ========== LENGTH = 4.943147

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023123	-10.583942	-0.092964
-0.000215	-0.211736	-2.118085	
0.25000	-0.023123	-4.901794	-0.092964
-0.000215	-0.096853	7.450448	
0.50000	-0.023123	0.780354	-0.092964
-0.000215	0.018031	9.997059	
0.75000	-0.023123	6.462502	-0.092964
-0.000215	0.132914	5.521746	
1.00000	-0.023123	12.144908	-0.092964
-0.000215	0.247798	-5.975490	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1502.OUT

Page 104

< AFTER COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 435 ========== LENGTH = 4.942921

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.008740	-10.418800	-0.119707
-0.000381	-0.031965	-5.953537	
0.25000	-0.008740	-4.736913	-0.119707
-0.000381	-0.144040	3.410649	
0.50000	-0.008740	0.944975	-0.119707
-0.000381	0.003886	5.753555	
0.75000	-0.008740	6.626862	-0.119707
-0.000381	0.151811	1.075182	
1.00000	-0.008740	12.308750	-0.119707
-0.000381	0.299736	-10.624472	

ELEM 436 ========== LENGTH = 4.942535

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.024571	-10.121063	-0.108402
-0.000508	-0.281672	-10.590604	
0.25000	0.024571	-4.439620	-0.108402
-0.000508	-0.147727	-1.594768	
0.50000	0.024571	1.241224	-0.108402
-0.000508	-0.013782	0.380884	
0.75000	0.024571	6.923268	-0.108402
-0.000508	0.120163	-4.663648	
1.00000	0.024571	12.604712	-0.108402
-0.000508	0.254108	-16.728362	

ELEM 437 ========== LENGTH = 4.943534

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.078986	-11.077459	-0.056045
-0.000302	-0.168623	-16.702597	
0.25000	0.078986	-5.394866	-0.056045
-0.000302	-0.099358	-6.523660	
0.50000	0.078986	0.287727	-0.056045
-0.000302	-0.030093	-3.367745	
0.75000	0.078986	5.970320	-0.056045
-0.000302	0.039172	-7.234854	
1.00000	0.078986	11.652912	-0.056045
-0.000302	0.108437	-18.124986	

ELEM 438 ========== LENGTH = 3.459946

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.079210	-8.736818	0.019787
0.000297	-0.000969	-18.118360	
0.25000	0.079210	-4.759310	0.019787
0.000297	-0.018084	-12.281246	
0.50000	0.079210	-0.782402	0.019787
0.000297	-0.035199	-9.884362	
0.75000	0.079210	3.194805	0.019787
0.000297	-0.052314	-10.927710	
1.00000	0.079210	7.172013	0.019787
0.000297	-0.069430	-15.411289	

ELEM 439 ========== LENGTH = 4.943169

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.035964	-11.648882	0.064458
0.000504	0.138292	-15.423679	
0.25000	0.035964	-5.966710	0.064458
0.000504	0.058635	-4.539074	
0.50000	0.035964	-0.284537	0.064458
0.000504	-0.021021	-0.676453	
0.75000	0.035964	5.397635	0.064458
0.000504	-0.100677	-3.835816	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1502.OUT

Page 105

< AFTER COMPOSITE SELF-WEIGHT LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
1.00000	0.035964	11.079808	0.064458
0.000504	-0.180333	-14.017163	

ELEM 440 ========== LENGTH = 4.943265

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.003045	-12.482660	0.095331
0.000439	0.230182	-14.041445	
0.25000	0.003045	-6.800377	0.095331
0.000439	0.112371	-2.126301	
0.50000	0.003045	-1.118095	0.095331
0.000439	-0.005440	2.766587	
0.75000	0.003045	4.564188	0.095331
0.000439	-0.123252	0.637218	
1.00000	0.003045	10.246471	0.095331
0.000439	-0.241063	-8.514408	

ELEM 441 ========== LENGTH = 4.942631

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.006320	-12.151264	0.089726
0.000277	0.231157	-8.554147	
0.25000	-0.006320	-6.469710	0.089726
0.000277	0.120286	-2.950429	
0.50000	-0.006320	-0.788156	0.089726
0.000277	0.009416	7.434548	
0.75000	-0.006320	4.893398	0.089726
0.000277	-0.101455	4.898211	
1.00000	-0.006320	10.574952	0.089726
0.000277	-0.212326	-4.658582	

ELEM 442 ========== LENGTH = 4.943051

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	

0.00000	-0.004628	-11.802542	0.053905
0.000121	0.153114	-4.680394	
0.25000	-0.004628	-6.120505	0.053905
0.000121	0.086501	6.393923	
0.50000	-0.004628	-0.438467	0.053905
0.000121	0.019888	10.446590	
0.75000	-0.004628	5.243570	0.053905
0.000121	-0.046726	7.477606	
1.00000	-0.004628	10.925608	0.053905
0.000121	-0.113339	-2.513029	

ELEM 443 ========== LENGTH = 4.942656

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001332	-11.371177	0.001622
-3.40E-06	0.027343	-2.507845	
0.25000	-0.001332	-5.690194	0.001622
-3.40E-06	0.025339	8.033588	
0.50000	-0.001332	-0.008611	0.001622
-3.40E-06	0.023334	11.554492	
0.75000	-0.001332	5.672972	0.001622
-3.40E-06	0.021330	8.054868	
1.00000	-0.001332	11.354556	0.001622
-3.40E-06	0.019325	-2.465284	

ELEM 444 ========== LENGTH = 4.943326

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000402	-10.953092	-0.051121
-0.000128	-0.106043	-2.444217	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.000402	-5.270739	-0.051121
-0.000128	-0.042866	7.580744	
0.50000	-0.000402	0.431613	-0.051121
-0.000128	0.020311	10.583274	
0.75000	-0.000402	6.093966	-0.051121
-0.000128	0.083487	6.563374	
1.00000	-0.000402	11.776319	-0.051121
-0.000128	0.146664	-4.478956	

ELEM 445 ========== LENGTH = 4.943123

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.002209	-10.579976	-0.088169
-0.000282	-0.207803	-4.458422	
0.25000	0.002209	-4.897855	-0.088169
-0.000282	-0.098846	5.105181	
0.50000	0.002209	0.784265	-0.088169
-0.000282	0.010112	7.646929	
0.75000	0.002209	6.466385	-0.088169
-0.000282	0.119069	3.166822	
1.00000	0.002209	12.148506	-0.088169
-0.000282	0.228027	-8.335141	

ELEM 446 ========== LENGTH = 4.943048

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.017065	-10.317325	-0.095844
-0.000438	-0.241189	-8.307078	
0.25000	0.017065	-4.635291	-0.095844
-0.000438	-0.122748	0.931859	
0.50000	0.017065	1.046742	-0.095844
-0.000438	-0.004308	3.149156	
0.75000	0.017065	6.728775	-0.095844
-0.000438	0.114132	-1.655188	
1.00000	0.017065	12.410809	-0.095844
-0.000438	0.232572	-13.481173	

ELEM 447 ========== LENGTH = 4.943134

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.055354	-10.893365	-0.066650
-0.000487	-0.185254	-13.456068	
0.25000	0.055354	-5.211232	-0.066650
-0.000487	-0.102889	-3.505171	
0.50000	0.055354	0.470901	-0.066650
-0.000487	-0.020524	-0.576159	
0.75000	0.055354	6.153034	-0.066650
-0.000487	0.061841	-4.669034	
1.00000	0.055354	11.835167	-0.066650
-0.000487	0.144205	-15.783795	

ELEM 448 ========== LENGTH = 3.459686

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.101697	-8.440905	-0.031870
-0.000254	-0.086342	-15.769367	
0.25000	0.101697	-4.463995	-0.031870
-0.000254	-0.058777	-10.188504	
0.50000	0.101697	-0.487086	-0.031870
-0.000254	-0.031212	-8.047356	
0.75000	0.101697	3.489823	-0.031870
-0.000254	-0.003648	-9.345922	
1.00000	0.101697	7.466732	-0.031870
-0.000254	0.023917	-14.084202	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 449 ========== LENGTH = 3.460360

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.107552	-7.491087	0.078269
0.000248	0.103184	-14.081200	
0.25000	0.107552	-3.513403	0.078269
0.000248	0.035475	-9.321263	
0.50000	0.107552	0.464280	0.078269
0.000248	-0.032235	-8.002380	
0.75000	0.107552	4.441964	0.078269
0.000248	-0.099945	-10.124551	
1.00000	0.107552	8.419648	0.078269
0.000248	-0.167654	-15.687777	

ELEM 450 ========== LENGTH = 4.943361

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.071522	-11.874012	0.090801
0.000481	0.203606	-15.703084	
0.25000	0.071522	-6.191619	0.090801
0.000481	0.091391	-4.539967	
0.50000	0.071522	-0.509225	0.090801
0.000481	-0.020825	-0.399380	
0.75000	0.071522	5.173169	0.090801
0.000481	-0.133040	-3.281325	
1.00000	0.071522	10.855563	0.090801
0.000481	-0.245255	-13.185801	

ELEM 451 ========== LENGTH = 4.942856

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.040898	-12.432651	0.119746
0.000436	0.292495	-13.217575	
0.25000	0.040898	-6.750838	0.119746
0.000436	0.144523	-1.364922	
0.50000	0.040898	-1.069024	0.119746
0.000436	-0.003449	3.466635	
0.75000	0.040898	4.612789	0.119746
0.000436	-0.151422	1.277095	
1.00000	0.040898	10.294602	0.119746
0.000436	-0.299394	-7.933541	

ELEM 452 ========== LENGTH = 4.943454

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.032192	-12.298998	0.109229
0.000282	0.282099	-7.968355	
0.25000	0.032192	-6.616497	0.109229
0.000282	0.147108	3.720130	
0.50000	0.032192	-0.933997	0.109229
0.000282	0.012116	8.355820	
0.75000	0.032192	4.748503	0.109229
0.000282	-0.122875	6.028715	
1.00000	0.032192	10.431004	0.109229
0.000282	-0.257867	-3.351184	

ELEM 453 ========== LENGTH = 4.943178

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.033580	-11.858522	0.065724
0.000124	0.186827	-3.377735	
0.25000	0.033580	-6.176339	0.065724
0.000124	0.105606	7.765956	
0.50000	0.033580	-0.494155	0.065724
0.000124	0.024385	11.887636	
0.75000	0.033580	5.188029	0.065724
0.000124	-0.056837	8.987304	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
1.00000	0.033580	10.870212	0.065724
0.000124	-0.138058	-0.935040	

ELEM 454 ========== LENGTH = 4.943033

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036033	-11.392054	0.003117
-1.28E-06	0.035993	-0.945388	
0.25000	0.036033	-5.710038	0.003117
-1.28E-06	0.032141	9.621638	
0.50000	0.036033	-0.028022	0.003117
-1.28E-06	0.028289	13.167065	
0.75000	0.036033	5.653994	0.003117
-1.28E-06	0.024436	9.690895	
1.00000	0.036033	11.336010	0.003117
-1.28E-06	0.020584	-0.806874	

ELEM 455 ========== LENGTH = 4.943005

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036118	-10.928522	-0.060398
-0.000125	-0.124042	-0.811744	
0.25000	0.036118	-5.246538	-0.060398
-0.000125	-0.049406	9.182431	
0.50000	0.036118	0.435447	-0.060398
-0.000125	0.025231	12.155087	
0.75000	0.036118	6.117431	-0.060398
-0.000125	0.099868	6.106224	
1.00000	0.036118	11.799415	-0.060398
-0.000125	0.174505	-2.964158	

ELEM 456 ========== LENGTH = 4.943104

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.037669	-10.453944	-0.106255
-0.000282	-0.249100	-2.951605	
0.25000	0.037669	-4.771847	-0.106255
-0.000282	-0.117793	6.456227	
0.50000	0.037669	0.910251	-0.106255
-0.000282	0.013515	8.842261	
0.75000	0.037669	6.592348	-0.106255
-0.000282	0.144822	4.206495	
1.00000	0.037669	12.274446	-0.106255
-0.000282	0.276129	-7.451070	

ELEM 457 ========== LENGTH = 4.942317

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.049401	-10.331019	-0.120076
-0.000436	-0.298371	-7.427820	
0.25000	0.049401	-4.649826	-0.120076
-0.000436	-0.150008	1.827191	
0.50000	0.049401	1.031368	-0.120076
-0.000436	-0.001644	4.062636	
0.75000	0.049401	6.712562	-0.120076
-0.000436	0.146720	-0.721484	
1.00000	0.049401	12.393756	-0.120076
-0.000436	0.295084	-12.525169	

ELEM 458 ========== LENGTH = 4.943664

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.080547	-10.870948	-0.094915
-0.000479	-0.253404	-12.483485	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.080547	-5.188206	-0.094915
-0.000479	-0.136097	-2.559603	
0.50000	0.080547	0.494535	-0.094915
-0.000479	-0.018790	0.340889	
0.75000	0.080547	6.177276	-0.094915
-0.000479	0.098516	-3.782010	
1.00000	0.080547	11.860018	-0.094915
-0.000479	0.215823	-14.928299	

ELEM 459 ========== LENGTH = 3.459749

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.119525	-8.419823	-0.093200
-0.000246	-0.191676	-14.910646	
0.25000	0.119525	-4.442841	-0.093200
-0.000246	-0.111064	-9.347947	
0.50000	0.119525	-0.465859	-0.093200
-0.000246	-0.030452	-7.225088	
0.75000	0.119525	3.511122	-0.093200
-0.000246	0.050161	-8.542069	
1.00000	0.119525	7.488104	-0.093200
-0.000246	0.130773	-13.298890	

ELEM 460 ========== LENGTH = 3.460020

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.119601	-7.429016	0.011172
0.000258	-0.009499	-13.290476	
0.25000	0.119601	-3.451723	0.011172
0.000258	-0.019163	-8.584529	
0.50000	0.119601	0.525569	0.011172
0.000258	-0.028827	-7.318960	
0.75000	0.119601	4.502862	0.011172
0.000258	-0.038490	-9.493769	
1.00000	0.119601	8.480155	0.011172
0.000258	-0.048154	-15.108956	

ELEM 461 ========== LENGTH = 4.942983

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.079469	-11.774653	0.052920
0.000490	0.112133	-15.118919	
0.25000	0.079469	-6.092694	0.052920
0.000490	0.046737	-4.079170	
0.50000	0.079469	-0.410735	0.052920
0.000490	-0.018659	-0.060878	
0.75000	0.079469	5.271224	0.052920
0.000490	-0.084055	-3.054042	
1.00000	0.079469	10.953183	0.052920
0.000490	-0.149452	-13.088663	

ELEM 462 ========== LENGTH = 4.943754

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.047834	-12.325833	0.080013
0.000445	0.193788	-13.108660	
0.25000	0.047834	-6.642987	0.080013
0.000445	0.094897	-1.386512	
0.50000	0.047834	-0.960142	0.080013
0.000445	-0.003993	3.311988	
0.75000	0.047834	4.722704	0.080013
0.000445	-0.102884	0.986840	
1.00000	0.047834	10.405549	0.080013
0.000445	-0.201775	-8.361956	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 463 ========== LENGTH = 4.942653

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036667	-12.119978	0.072963
0.000290	0.189843	-8.396590	
0.25000	0.036667	-6.438398	0.072963
0.000290	0.099684	3.069363	
0.50000	0.036667	-0.756819	0.072963
0.000290	0.009526	7.514796	
0.75000	0.036667	4.924761	0.072963
0.000290	-0.080632	4.939709	
1.00000	0.036667	10.606341	0.072963
0.000290	-0.170791	-4.655898	

ELEM 464 ========== LENGTH = 4.942678

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036221	-11.695666	0.038007
0.000130	0.113015	-4.672266	
0.25000	0.036221	-6.014057	0.038007
0.000130	0.066052	6.269418	
0.50000	0.036221	-0.332449	0.038007
0.000130	0.019088	10.190510	
0.75000	0.036221	5.349360	0.038007
0.000130	-0.027876	7.091011	
1.00000	0.036221	11.030769	0.038007
0.000130	-0.074839	-3.029079	

ELEM 465 ========== LENGTH = 4.943780

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.037259	-11.244770	-0.010567
2.62E-06	-0.107522	-3.019538	
0.25000	0.037259	-5.561894	-0.010567
2.62E-06	0.007639	7.366520	
0.50000	0.037259	0.120981	-0.010567
2.62E-06	0.020699	10.728855	
0.75000	0.037259	5.803857	-0.010567
2.62E-06	0.033760	7.067467	
1.00000	0.037259	11.486732	-0.010567
2.62E-06	0.046820	-3.617642	

ELEM 466 ========== LENGTH = 4.943055

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.037228	-10.775976	-0.054888
-0.000126	-0.120456	-3.621368	
0.25000	0.037228	-5.093934	-0.054888
-0.000126	-0.052627	8.184362	
0.50000	0.037228	0.588107	-0.054888
-0.000126	0.015202	8.968431	
0.75000	0.037228	6.270149	-0.054888
-0.000126	0.083031	4.730839	
1.00000	0.037228	11.952191	-0.054888
-0.000126	0.150860	-6.528415	

ELEM 467 ========== LENGTH = 4.942457

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.040019	-10.526422	-0.078752
-0.000291	-0.191495	-6.507276	
0.25000	0.040019	-4.845068	-0.078752
-0.000291	-0.094188	2.989340	
0.50000	0.040019	0.836286	-0.078752
-0.000291	0.003119	5.465994	
0.75000	0.040019	6.517639	-0.078752
-0.000291	0.100426	0.922687	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
1.00000	0.040019	12.198993	-0.078752
-0.000291	0.197733	-10.640581	

ELEM 468 ========== LENGTH = 4.942920

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.056277	-10.178487	-0.069852
-0.000455	-0.185224	-10.618370	
0.25000	0.056277	-4.496000	-0.069852
-0.000455	-0.098906	-1.551147	
0.50000	0.056277	1.185286	-0.069852
-0.000455	-0.012588	0.494798	
0.75000	0.056277	6.867173	-0.069852
-0.000455	0.073731	-4.480534	
1.00000	0.056277	12.549059	-0.069852
-0.000455	0.160049	-16.477145	

ELEM 469 ========== LENGTH = 4.943568

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.091578	-11.075368	-0.024664
-0.000518	-0.088214	-16.452627	
0.25000	0.091578	-5.392736	-0.024664
-0.000518	-0.057732	-6.276228	
0.50000	0.091578	0.289896	-0.024664
-0.000518	-0.027250	-3.122948	
0.75000	0.091578	5.972528	-0.024664
-0.000518	0.003232	-6.992788	
1.00000	0.091578	11.655160	-0.024664
-0.000518	0.033714	-17.885748	

ELEM 470 ========== LENGTH = 3.460116

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.132772	-7.218602	0.087076
-0.000305	0.108019	-17.897123	
0.25000	0.132772	-3.241199	0.087076
-0.000305	0.032696	-13.373108	
0.50000	0.132772	0.736204	0.087076
-0.000305	-0.042627	-12.289661	
0.75000	0.132772	4.713607	0.087076
-0.000305	-0.117950	-14.646784	
1.00000	0.132772	8.691011	0.087076
-0.000305	-0.193273	-20.444475	

ELEM 471 ========== LENGTH = 4.942629

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.136885	-11.765331	0.125274
0.000336	0.270576	-20.472411	
0.25000	0.136885	-6.083778	0.125274
0.000336	0.115780	-9.444720	
0.50000	0.136885	-0.402226	0.125274
0.000336	-0.039017	-5.437481	
0.75000	0.136885	5.279327	0.125274
0.000336	-0.193813	-8.450694	
1.00000	0.136885	10.960879	0.125274
0.000336	-0.348609	-18.484358	

ELEM 472 ========== LENGTH = 4.943618

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.093957	-12.793226	0.192127
0.000550	0.457060	-18.531770	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.093957	-7.110537	0.192127
0.000550	0.219609	-6.232197	
0.50000	0.093957	-1.427849	0.192127
0.000550	-0.017641	-0.955882	
0.75000	0.093957	4.254839	0.192127
0.000550	-0.255291	-2.702827	
1.00000	0.093957	9.937528	0.192127
0.000550	-0.492741	-11.473031	

ELEM 473 ========== LENGTH = 4.942653

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.060395	-12.547360	0.208432
0.000424	0.518055	-11.544694	
0.25000	0.060395	-6.865781	0.208432
0.000424	0.260503	-0.449358	
0.50000	0.060395	-1.184201	0.208432
0.000424	0.002951	5.422892	
0.75000	0.060395	4.497378	0.208432
0.000424	-0.254600	3.375906	
1.00000	0.060395	10.178958	0.208432
0.000424	-0.512152	-5.691598	

ELEM 474 ========== LENGTH = 4.942894

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.047360	-12.405674	0.178586
0.000261	0.462358	-5.737774	
0.25000	0.047360	-6.723818	0.178586
0.000261	0.241675	6.081607	
0.50000	0.047360	-1.041961	0.178586
0.000261	0.020993	10.879785	
0.75000	0.047360	4.639895	0.178586
0.000261	-0.199690	8.656759	
1.00000	0.047360	10.321752	0.178586
0.000261	-0.420373	-0.587471	

ELEM 475 ========== LENGTH = 4.943165

LOAD AFTER ----------

REL DIST	P	V2	V3
T	M2	M3	

```
 0.00000     0.041875   -12.001961     0.111900
 0.000129    0.311095    -0.617834
 0.25000     0.041875    -6.319792     0.111900
 0.000129    0.172811    10.703098
 0.50000     0.041875    -0.637623     0.111900
 0.000129    0.034526    15.002055
 0.75000     0.041875     5.044545     0.111900
 0.000129   -0.103759    12.279037
 1.00000     0.041875    10.726714     0.111900
 0.000129   -0.242044     2.534044

 ELEM      476 ================== LENGTH
=     4.943656

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000     0.034246   -11.651589     0.021230
 2.68E-05    0.094250     2.513868
 0.25000     0.034246    -5.968857     0.021230
 2.68E-05    0.068012    13.402545
 0.50000     0.034246    -0.286125     0.021230
 2.68E-05    0.041775    17.267855
 0.75000     0.034246     5.396608     0.021230
 2.68E-05    0.015537    14.109796
 1.00000     0.034246    11.079340     0.021230
 2.68E-05   -0.010701     3.928369
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                 113

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      477 ================== LENGTH
=     4.942285

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000     0.016682   -11.283156    -0.079370
-6.95E-05   -0.152784     3.923042
 0.25000     0.016682    -5.601999    -0.079370
-6.95E-05   -0.054716    14.354448
 0.50000     0.016682     0.079157    -0.079370
-6.95E-05    0.043352    17.766381
 0.75000     0.016682     5.760314    -0.079370
-6.95E-05    0.141420    14.158840
 1.00000     0.016682    11.441470    -0.079370
-6.95E-05    0.239488     3.531825

 ELEM      478 ================== LENGTH
=     4.943913

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000    -0.013914   -11.001777    -0.176086
-0.000194   -0.396123     3.581489
 0.25000    -0.013914    -5.318749    -0.176086
-0.000194   -0.178484    13.667396
 0.50000    -0.013914     0.364278    -0.176086
-0.000194    0.039155    16.729205
 0.75000    -0.013914     6.047306    -0.176086
-0.000194    0.256793    12.766916
 1.00000    -0.013914    11.730334    -0.176086
-0.000194    0.474432     1.780529

 ELEM      479 ================== LENGTH
=     4.942677

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000    -0.053210   -10.778108    -0.262716
-0.000374   -0.614063     1.832814
 0.25000    -0.053210    -5.096501    -0.262716
-0.000374   -0.289432    11.640697
 0.50000    -0.053210     0.585107    -0.262716
-0.000374    0.035199    14.427993
 0.75000    -0.053210     6.266714    -0.262716
-0.000374    0.359829    10.194700
 1.00000    -0.053210    11.948321    -0.262716
-0.000374    0.684460    -1.059179

 ELEM      480 ================== LENGTH
=     4.942797

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000    -0.078925   -10.815470    -0.271125
-0.000648   -0.695788    -0.975596
 0.25000    -0.078925    -5.133725    -0.271125
-0.000648   -0.360758     8.878608
 0.50000    -0.078925     0.548019    -0.271125
-0.000648   -0.025728    11.711885
 0.75000    -0.078925     6.229764    -0.271125
-0.000648    0.309301     7.544034
 1.00000    -0.078925    11.911509    -0.271125
-0.000648    0.644331    -3.684345

 ELEM      481 ================== LENGTH
=     1.482588

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000    -0.046324    -5.691101    -2.858584
-0.000995   -2.046936    -3.522669
 0.25000    -0.046324    -3.986867    -2.858584
-0.000995   -1.729115    -1.729115
 0.50000    -0.046324    -2.282632    -2.858584
-0.000995    0.072115    -0.567230
 0.75000    -0.046324    -0.578398    -2.858584
-0.000995    1.131641    -0.037014
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                 114

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P              V2             V3
        T            M2             M3
 1.00000    -0.046324     1.125837    -2.858584
-0.000995    2.191166    -0.138467

 ELEM      482 ================== LENGTH
=     1.100000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -300.916281   -0.341608    -21.319189
 .000000   -23.451108    -0.375769
 0.25000   -300.916281   -0.341608    -21.319189
 .000000   -17.588331    -0.281827
 0.50000   -300.916281   -0.341608    -21.319189
 .000000   -11.725554    -0.187884
 0.75000   -300.916281   -0.341608    -21.319189
 .000000    -5.862777    -0.093942
 1.00000   -300.916281   -0.341608    -21.319189
 .000000     4.07E-11     3.26E-10

 ELEM      483 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -942.059278   -0.031222     -0.561267
 .000000    -0.673520    -0.037467
 0.25000   -942.059278   -0.031222     -0.561267
 .000000    -0.505140    -0.028100
 0.50000   -942.059278   -0.031222     -0.561267
 .000000    -0.336760    -0.018733
 0.75000   -942.059278   -0.031222     -0.561267
 .000000    -0.168380    -0.009367
 1.00000   -942.059278   -0.031222     -0.561267
 .000000     4.07E-11     6.98E-11

 ELEM      484 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -913.568230    0.807824     1.746779
 .000000     2.096135    0.969389
 0.25000   -913.568230    0.807824     1.746779
 .000000     1.572101    0.727042
 0.50000   -913.568230    0.807824     1.746779
 .000000     1.048067    0.484695
 0.75000   -913.568230    0.807824     1.746779
 .000000     0.524034    0.242347
 1.00000   -913.568230    0.807824     1.746779
 .000000     2.04E-11   -5.82E-11

 ELEM      485 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -881.000863    0.002773     0.775104
 .000000     0.930124    0.003328
 0.25000   -881.000863    0.002773     0.775104
 .000000     0.697593    0.002496
 0.50000   -881.000863    0.002773     0.775104
 .000000     0.465062    0.001664
 0.75000   -881.000863    0.002773     0.775104
 .000000     0.232531    0.000832
 1.00000   -881.000863    0.002773     0.775104
 .000000     3.06E-11    2.10E-10

 ELEM      486 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -1021.786     0.539726    15.448006
 .000000    18.537607    0.647671
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                 115

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P              V2             V3
        T            M2             M3
 0.25000   -1021.786     0.539726    15.448006
 .000000    13.903206    0.485754
 0.50000   -1021.786     0.539726    15.448006
 .000000     9.268804    0.323836
 0.75000   -1021.786     0.539726    15.448006
 .000000     4.634402    0.161918
 1.00000   -1021.786     0.539726    15.448006
 .000000     5.82E-12   -2.10E-10

 ELEM      487 ================== LENGTH
=     1.100000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -355.948070    0.287241    -29.179411
 .000000    -32.097352    0.315966
 0.25000   -355.948070    0.287241    -29.179411
 .000000    -24.073014    0.236974
 0.50000   -355.948070    0.287241    -29.179411
 .000000    -16.048676    0.157983
 0.75000   -355.948070    0.287241    -29.179411
 .000000     -8.024338    0.078991
 1.00000   -355.948070    0.287241    -29.179411
 .000000     2.33E-11     1.86E-09

 ELEM      488 ================== LENGTH
=     1.100000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -157.983035    1.603629     20.564167
 .000000     22.620584    1.763992
 0.25000   -157.983035    1.603629     20.564167
 .000000     16.965438    1.322994
 0.50000   -157.983035    1.603629     20.564167
 .000000     11.310292    0.881996
 0.75000   -157.983035    1.603629     20.564167
 .000000      5.655146    0.440998
 1.00000   -157.983035    1.603629     20.564167
 .000000     9.60E-11    -6.52E-10

 ELEM      489 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -571.031878    0.079115     1.422196
 .000000     1.706636    0.094938
 0.25000   -571.031878    0.079115     1.422196
 .000000     1.279977    0.071203
 0.50000   -571.031878    0.079115     1.422196
 .000000     0.853318    0.047469
 0.75000   -571.031878    0.079115     1.422196
 .000000     0.426659    0.023734
 1.00000   -571.031878    0.079115     1.422196
 .000000     2.62E-11    2.33E-11

 ELEM      490 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -529.966344    0.145587     -1.518024
 .000000     -1.821629    0.174704
 0.25000   -529.966344    0.145587     -1.518024
 .000000     -1.366222    0.131028
 0.50000   -529.966344    0.145587     -1.518024
 .000000     -0.910814    0.087352
 0.75000   -529.966344    0.145587     -1.518024
 .000000     -0.455407    0.043676
 1.00000   -529.966344    0.145587     -1.518024
 .000000     2.18E-11    -4.95E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                 116

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      491 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -496.369308    -0.008824     -2.466122
 .000000    -2.959346    -0.010588
 0.25000   -496.369308    -0.008824     -2.466122
 .000000    -2.219510    -0.007941
 0.50000   -496.369308    -0.008824     -2.466122
 .000000    -1.479673    -0.005294
 0.75000   -496.369308    -0.008824     -2.466122
 .000000    -0.739837    -0.002647
 1.00000   -496.369308    -0.008824     -2.466122
 .000000     2.91E-11     2.33E-11

 ELEM      492 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -645.484408    0.277265    -12.360648
 .000000   -14.832778     0.332718
 0.25000   -645.484408    0.277265    -12.360648
 .000000   -11.124584     0.249538
 0.50000   -645.484408    0.277265    -12.360648
 .000000    -7.416389     0.166359
 0.75000   -645.484408    0.277265    -12.360648
 .000000    -3.708195     0.083179
 1.00000   -645.484408    0.277265    -12.360648
 .000000     2.18E-12    -2.33E-11

 ELEM      493 ================== LENGTH
=     1.100000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -204.994221   -1.320813     27.388057
 .000000    30.126863    -1.452894
 0.25000   -204.994221   -1.320813     27.388057
 .000000    22.595147    -1.089671
 0.50000   -204.994221   -1.320813     27.388057
 .000000    15.063431    -0.726447
 0.75000   -204.994221   -1.320813     27.388057
 .000000     7.531716    -0.363224
 1.00000   -204.994221   -1.320813     27.388057
 .000000    -1.51E-10     1.12E-09

 ELEM      494 ================== LENGTH
=     1.100000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -374.785443   -4.66E-10     1.16E-10
 .000000     1.16E-10    -4.66E-10
 0.25000   -374.785443   -4.66E-10     1.16E-10
 .000000     8.44E-11    -3.38E-10
 0.50000   -374.785443   -4.66E-10     1.16E-10
 .000000     5.24E-11    -2.10E-10
 0.75000   -374.785443   -4.66E-10     1.16E-10
 .000000     2.04E-11    -8.15E-11
 1.00000   -374.785443   -4.66E-10     1.16E-10
 .000000    -1.16E-11     4.66E-11

 ELEM      495 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000    -1203.799    -1.16E-10      .000000
 .000000     .000000     .000000
 0.25000    -1203.799    -1.16E-10      .000000
 .000000     .000000     3.49E-11
 0.50000    -1203.799    -1.16E-10      .000000
 .000000     .000000     6.98E-11
 0.75000    -1203.799    -1.16E-10      .000000
 .000000     .000000     1.05E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1502.OUT

                                Page
< AFTER  COMPOSITE  SELF-WEIGHT  LOAD >
                                 117

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P              V2             V3
        T            M2             M3
 1.00000    -1203.799    -1.16E-10      .000000
 .000000     .000000     1.40E-10

 ELEM      496 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000    -1176.839    -2.040694     0.060352
 .000000     0.072423    -2.448833
 0.25000    -1176.839    -2.040694     0.060352
 .000000     0.036217    -1.224416
 0.50000    -1176.839    -2.040694     0.060352
 .000000     0.036211    -1.224416
 0.75000    -1176.839    -2.040694     0.060352
 .000000     0.018106    -0.612208
 1.00000    -1176.839    -2.040694     0.060352
 .000000    -1.16E-10    -1.75E-11

 ELEM      497 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000    -1142.971     .000000    -1.16E-10
 .000000    -1.16E-10    1.16E-10
 0.25000    -1142.971     .000000    -1.16E-10
 .000000    -8.15E-11    1.16E-10
 0.50000    -1142.971     .000000    -1.16E-10
 .000000    -4.66E-11    1.16E-10
 0.75000    -1142.971     .000000    -1.16E-10
 .000000    -1.16E-11    1.16E-10
 1.00000    -1142.971     .000000    -1.16E-10
 .000000     2.33E-11    1.16E-10

 ELEM      498 ================== LENGTH
=     1.200000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -1303.768    2.33E-10     1.16E-10
 .000000    1.16E-10    -1.16E-10
 0.25000   -1303.768    2.33E-10     1.16E-10
 .000000    8.15E-11    -1.86E-10
 0.50000   -1303.768    2.33E-10     1.16E-10
 .000000    4.66E-11    -2.56E-10
 0.75000   -1303.768    2.33E-10     1.16E-10
 .000000    1.16E-11    -3.26E-10
 1.00000   -1303.768    2.33E-10     1.16E-10
 .000000    -2.33E-11    -3.96E-10

 ELEM      499 ================== LENGTH
=     1.100000

 LOAD    AFTER ------------------

 REL DIST            P              V2             V3
        T            M2             M3
 0.00000   -436.852435    -1.86E-09     4.66E-10
 .000000     7.57E-10     .000000
 0.25000   -436.852435    -1.86E-09     4.66E-10
 .000000     6.29E-10    5.12E-10
 0.50000   -436.852435    -1.86E-09     4.66E-10
 .000000     5.01E-10    1.02E-09
 0.75000   -436.852435    -1.86E-09     4.66E-10
 .000000     3.73E-10    1.54E-09
 1.00000   -436.852435    -1.86E-09     4.66E-10
 .000000     2.44E-10    2.05E-09

<              MOVING              LOAD              >
                                    1

 D I S P L A C E M E N T   D E G R E E S
O F   F R E E D O M

          (A) = Active DOF, equilibrium equation
          (-) = Restrained DOF, reaction computed
          (+) = Constrained DOF
          (>) = External substructure DOF
          ( ) = Null DOF

 JOINTS                U1  U2  U3  R1  R2  R3
     1 TO      270     A   A   A   A   A   A
   271 TO      272     A   -   -   A   A   A
   273               -   -   -   A   A   A
   274 TO      278     A   -   -   A   A   A
   279               -   -   -   A   A   A
   280 TO      282     A   -   -   A   A   A
   283 TO      284     A   A   -   A   A   A
   285               -   A   -   A   A   A
   286 TO      288     A   A   -   A   A   A
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING              LOAD              >
                                    2

 T O T A L   A S S E M B L E D   J O I N T
M A S S E S

 IN GLOBAL COORDINATES

            UX              UY              UZ
            RX              RY              RZ
 TOTAL      .000000         .000000         .000000
 .000000    .000000         .000000

 T O T A L   A C C E L E R A T E D   M A S
S   A N D   L O C A T I O N

 TOTAL MASS ACTIVATED BY ACCELERATION
LOADS, IN GLOBAL COORDINATES

            UX              UY              UZ
 MASS       .000000         .000000         .000000
 X-LOC      .000000         .000000         .000000
 Y-LOC      .000000         .000000         .000000
 Z-LOC      .000000         .000000         .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING              LOAD              >
                                    3

 J O I N T   D I S P L A C E M E N T S

 TRANSLATIONS AND ROTATIONS, IN LOCAL
COORDINATES

 COMB DB-G1-1 ------------------ MAX

  JOINT             U1              U2              U3
     R1             R2              R3
      1      0.000275        0.000138     1.94E-08
 2.30E-05    0.000399        1.21E-06
      2      0.000274        0.000134     0.000481
 3.11E-05    0.000356        1.21E-06
      3      0.000274        0.000139     0.000973
 4.04E-05    0.000263        2.71E-06
      4      0.000274        0.000147     0.001389
 4.82E-05    0.000159        2.56E-06
      5      0.000274        0.000147     0.001692
 5.36E-05    6.12E-05        1.34E-06
      6      0.000275        0.000135     0.001845
 5.54E-05    1.83E-06        4.06E-07
      7      0.000275        0.000112     0.001802
 5.16E-05    3.54E-05        1.41E-06
      8      0.000275        8.42E-05     0.001521
 3.77E-05    8.77E-05        3.02E-06
      9      0.000276        5.64E-05     0.000940
 8.33E-06    0.000151        4.73E-06
     10      0.000276        3.25E-05     2.54E-08
 6.39E-06    0.000227        4.87E-06
     11      0.000277        4.74E-05     0.000680
 1.96E-05    0.000273        4.71E-06
     12      0.000278        7.02E-05     0.001346
 4.53E-05    0.000295        5.36E-06
     13      0.000278        9.41E-05     0.001714
 5.51E-05    0.000271        5.47E-06
     14      0.000279        0.000114     0.001850
 5.50E-05    0.000206        4.60E-06
     15      0.000280        0.000125     0.001787
 4.93E-05    0.000119        3.07E-06
     16      0.000281        0.000124     0.001915
 5.31E-05    5.59E-05        1.49E-06
     17      0.000282        0.000110     0.001981
 5.53E-05    7.03E-05        9.47E-07
     18      0.000282        8.84E-05     0.001833
 5.11E-05    7.52E-05        1.27E-06
     19      0.000283        6.26E-05     0.001436
 3.62E-05    0.000110        2.92E-06
     20      0.000283        3.85E-05     0.000723
 5.10E-06    0.000179        4.58E-06
     21      0.000282        3.94E-05     2.63E-08
 3.93E-06    0.000235        4.74E-06
     22      0.000281        5.53E-05     0.000712
 1.34E-05    0.000285        4.77E-06
     23      0.000280        8.00E-05     0.001419
 4.17E-05    0.000314        5.51E-06
     24      0.000278        0.000106     0.001820
 5.37E-05    0.000296        5.67E-06
     25      0.000276        0.000129     0.001979
 5.57E-05    0.000234        4.81E-06
     26      0.000275        0.000141     0.001921
 5.15E-05    0.000141        3.22E-06
     27      0.000274        0.000142     0.001996
 5.31E-05    5.79E-05        1.47E-06
     28      0.000273        0.000129     0.002058
 5.71E-05    7.43E-05        8.99E-07
     29      0.000271        0.000107     0.001893
 5.47E-05    7.98E-05        1.39E-06
     30      0.000270        8.04E-05     0.001475
 4.19E-05    0.000113        3.16E-06
     31      0.000269        5.50E-05     0.000740
 1.24E-05    0.000184        4.90E-06
     32      0.000268        3.81E-05     2.88E-08
 2.91E-06    0.000242        5.22E-06
     33      0.000267        4.20E-05     0.000736
 6.66E-06    0.000294        5.37E-06
     34      0.000266        6.96E-05     0.001468
 3.83E-05    0.000327        6.17E-06
     35      0.000265        9.93E-05     0.001887
 5.31E-05    0.000312        6.33E-06
     36      0.000264        0.000125     0.002056
 5.72E-05    0.000252        5.44E-06
     37      0.000264        0.000142     0.002000
 5.48E-05    0.000159        3.77E-06
     38      0.000263        0.000146     0.002233
 5.24E-05    6.45E-05        1.91E-06
     39      0.000262        0.000137     0.002298
 5.82E-05    7.49E-05        5.81E-07
     40      0.000262        0.000118     0.002110
 5.74E-05    8.17E-05        9.85E-07
     41      0.000262        9.55E-05     0.001640
 4.60E-05    0.000124        2.75E-06
     42      0.000261        7.42E-05     0.000820
 1.75E-05    0.000204        4.73E-06
     43      0.000261        5.92E-05     2.50E-08
 8.93E-06    0.000269        5.71E-06
     44      0.000261        3.79E-05     0.001041
 1.11E-05    0.000346        6.82E-06
     45      0.000260        7.29E-05     0.001733
 4.08E-05    0.000373        7.78E-06
     46      0.000260        0.000110     0.002131
 5.53E-05    0.000351        7.84E-06
     47      0.000260        0.000143     0.002288
 6.02E-05    0.000286        6.87E-06
     48      0.000259        0.000168     0.002243
 5.96E-05    0.000191        5.11E-06
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING              LOAD              >
                                    4

 J O I N T   D I S P L A C E M E N T S

 TRANSLATIONS AND ROTATIONS, IN LOCAL
```

COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000259	0.000180	0.002033
5.55E-05	8.85E-05	2.95E-06	
50	0.000259	0.000178	0.001693
4.93E-05	7.47E-05	1.06E-06	
51	0.000258	0.000165	0.001252
4.15E-05	9.26E-05	5.94E-07	
52	0.000258	0.000148	0.000738
3.22E-05	1.46E-06	4.76E-05	
53	0.000258	0.000139	0.000174
2.15E-05	0.000114	2.91E-06	
54	0.000258	0.000139	1.59E-08
1.87E-05	0.000115	3.17E-06	
55	0.000197	4.08E-05	1.21E-08
1.22E-05	0.000226	2.13E-06	
56	0.000197	4.76E-05	0.000399
2.39E-05	0.000200	1.33E-06	
57	0.000197	4.70E-05	0.000807
3.81E-05	0.000145	5.80E-07	
58	0.000197	4.06E-05	0.001146
5.09E-05	7.80E-05	6.80E-07	
59	0.000197	3.36E-05	0.001385
6.14E-05	1.60E-05	7.48E-07	
60	0.000197	2.77E-05	0.001487
6.84E-05	3.57E-06	7.75E-07	
61	0.000197	2.23E-05	0.001419
6.94E-05	3.91E-05	6.68E-07	
62	0.000197	1.65E-05	0.001156
5.97E-05	7.98E-05	3.32E-07	
63	0.000197	9.93E-06	0.000680
3.22E-05	0.000120	1.52E-07	
64	0.000197	9.63E-06	2.21E-08
8.14E-06	0.000155	6.70E-07	
65	0.000197	8.72E-06	0.000474
4.11E-05	0.000172	1.12E-06	
66	0.000197	1.03E-05	0.000997
6.79E-05	0.000177	7.91E-07	
67	0.000197	1.08E-05	0.001326
7.54E-05	0.000156	4.11E-07	
68	0.000197	1.08E-05	0.001476
7.14E-05	0.000111	2.04E-07	
69	0.000197	1.10E-05	0.001458
6.11E-05	5.09E-05	2.27E-07	
70	0.000197	1.09E-05	0.001589
6.33E-05	4.37E-05	3.19E-07	
71	0.000197	1.05E-05	0.001612
7.02E-05	5.75E-05	3.77E-07	
72	0.000196	1.22E-05	0.001450
7.02E-05	6.29E-05	3.37E-07	
73	0.000196	1.29E-05	0.001093
5.84E-05	9.56E-05	4.00E-07	
74	0.000196	1.20E-05	0.000522
2.74E-05	0.000137	3.99E-07	
75	0.000196	1.14E-05	2.26E-08
2.13E-06	0.000163	5.57E-07	
76	0.000196	1.32E-05	0.000511
3.48E-05	0.000183	1.01E-06	
77	0.000196	1.64E-05	0.001076
6.34E-05	0.000193	8.26E-07	
78	0.000196	1.81E-05	0.001437
7.31E-05	0.000176	5.30E-07	
79	0.000197	1.86E-05	0.001609
7.11E-05	0.000132	3.24E-07	
80	0.000197	1.84E-05	0.001594
6.23E-05	6.71E-05	2.56E-07	
81	0.000197	1.85E-05	0.001662
6.41E-05	4.52E-05	2.74E-07	
82	0.000197	1.96E-05	0.001679
7.30E-05	6.13E-05	3.40E-07	
83	0.000198	1.98E-05	0.001501
7.49E-05	6.76E-05	3.54E-07	
84	0.000198	1.83E-05	0.001124
6.47E-05	9.64E-05	3.18E-07	
85	0.000198	1.46E-05	0.000535
3.52E-05	0.000140	4.33E-07	
86	0.000198	1.20E-05	2.27E-08
2.01E-06	0.000167	9.11E-07	
87	0.000198	1.19E-05	0.000530
2.84E-05	0.000189	1.42E-06	
88	0.000198	1.19E-05	0.001117
6.00E-05	0.000203	1.30E-06	
89	0.000198	1.42E-05	0.001494
7.20E-05	0.000190	1.01E-06	
90	0.000198	1.81E-05	0.001676
7.20E-05	0.000148	7.76E-07	
91	0.000198	2.10E-05	0.001690
6.47E-05	8.26E-05	7.20E-07	
92	0.000198	2.33E-05	0.001885
6.65E-05	4.38E-05	7.80E-07	
93	0.000198	2.57E-05	0.001904
7.82E-05	6.15E-05	7.08E-07	
94	0.000198	2.83E-05	0.001702
8.30E-05	6.91E-05	3.81E-07	
95	0.000199	2.85E-05	0.001276
7.56E-05	0.000106	4.42E-07	
96	0.000199	2.51E-05	0.000608
4.82E-05	0.000156	7.31E-07	
97	0.000199	2.23E-05	2.22E-08
1.46E-05	0.000190	1.16E-06	
98	0.000199	2.32E-05	0.000774
3.12E-05	0.000227	1.70E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	0.000199	2.36E-05	0.001352
6.06E-05	0.000240	1.74E-06	
100	0.000199	2.07E-05	0.001720
7.22E-05	0.000223	1.66E-06	
101	0.000199	2.10E-05	0.001892
7.33E-05	0.000176	1.56E-06	
102	0.000199	2.83E-05	0.001886
6.88E-05	0.000107	1.62E-06	
103	0.000199	3.55E-05	0.001729
6.12E-05	3.93E-05	1.84E-06	
104	0.000200	4.35E-05	0.001450
5.18E-05	6.18E-05	1.91E-06	
105	0.000200	5.19E-05	0.001076
4.11E-05	7.89E-05	1.51E-06	
106	0.000199	5.62E-05	0.000635
2.93E-05	9.10E-05	5.55E-07	
107	0.000199	5.11E-05	0.000150
1.72E-05	9.91E-05	9.65E-07	
108	0.000199	4.76E-05	1.19E-08
1.49E-05	0.000100	1.03E-06	
109	0.000134	3.30E-05	2.11E-08
1.86E-05	0.000105	1.48E-06	
110	0.000134	1.16E-05	0.000320
2.58E-05	9.45E-05	1.50E-06	
111	0.000135	5.19E-06	0.000646
3.47E-05	7.05E-05	1.54E-06	
112	0.000135	1.21E-05	0.000912
4.24E-05	3.72E-05	1.54E-06	
113	0.000135	1.91E-05	0.001088
4.77E-05	9.44E-06	1.39E-06	
114	0.000135	2.49E-05	0.001144
4.92E-05	8.62E-06	9.83E-07	
115	0.000134	2.78E-05	0.001058
4.53E-05	3.66E-05	2.36E-06	
116	0.000134	2.61E-05	0.000827
3.39E-05	6.45E-05	3.18E-06	
117	0.000134	1.87E-05	0.000462
1.43E-05	8.66E-05	3.29E-06	
118	0.000134	6.17E-06	1.78E-08
6.05E-06	9.85E-05	2.85E-06	
119	0.000133	1.07E-05	0.000306
1.90E-05	0.000101	2.30E-06	
120	0.000133	1.98E-05	0.000686
3.90E-05	9.75E-05	1.34E-06	
121	0.000133	2.33E-05	0.000962
4.91E-05	8.24E-05	8.73E-07	
122	0.000132	2.30E-05	0.001117
5.10E-05	5.46E-05	1.02E-06	
123	0.000131	2.06E-05	0.001164
4.69E-05	1.87E-05	1.07E-06	
124	0.000131	2.56E-05	0.001275
4.80E-05	3.08E-05	1.68E-06	
125	0.000130	2.93E-05	0.001259
4.93E-05	4.44E-05	2.97E-06	
126	0.000130	3.00E-05	0.001094
4.46E-05	5.06E-05	3.85E-06	
127	0.000129	2.61E-05	0.000788
3.20E-05	7.70E-05	4.09E-06	
128	0.000129	1.65E-05	0.000356
1.09E-05	9.83E-05	3.72E-06	
129	0.000129	6.61E-06	1.73E-08
4.05E-06	0.000107	3.29E-05	
130	0.000130	1.01E-05	0.000346
1.54E-05	0.000111	2.52E-06	
131	0.000131	1.96E-05	0.000772
3.60E-05	0.000109	1.41E-06	
132	0.000132	2.36E-05	0.001080
4.72E-05	9.58E-05	6.97E-07	
133	0.000133	2.29E-05	0.001255
5.05E-05	6.78E-05	8.40E-07	
134	0.000134	1.92E-05	0.001279
4.76E-05	2.79E-05	9.03E-07	
135	0.000135	1.74E-05	0.001340
4.89E-05	3.30E-05	2.02E-06	
136	0.000136	2.04E-05	0.001317
5.17E-05	4.87E-05	3.32E-06	
137	0.000137	2.05E-05	0.001136
4.81E-05	5.57E-05	4.12E-06	
138	0.000137	1.64E-05	0.000814
3.63E-05	7.87E-05	4.25E-06	
139	0.000138	7.27E-06	0.000366
1.50E-05	0.000101	3.76E-06	
140	0.000133	1.00E-05	1.75E-08
3.45E-06	0.000111	3.17E-06	
141	0.000139	1.97E-05	0.000361
1.20E-05	0.000116	2.46E-06	
142	0.000140	2.87E-05	0.000806
3.34E-05	0.000117	1.32E-06	
143	0.000140	3.20E-05	0.001129
4.61E-05	0.000106	3.69E-07	
144	0.000141	3.05E-05	0.001313
5.09E-05	7.91E-05	4.86E-07	
145	0.000141	2.58E-05	0.001412
4.94E-05	3.85E-05	9.77E-07	
146	0.000141	1.98E-05	0.001546
5.06E-05	5.18E-05	2.41E-06	
147	0.000141	1.37E-05	0.001522
5.50E-05	4.89E-05	3.69E-06	
148	0.000141	1.21E-05	0.001316
5.26E-05	5.69E-05	4.39E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000141	7.61E-06	0.000945
4.11E-05	8.85E-05	4.38E-06	
150	0.000142	8.00E-06	0.000427
1.84E-05	0.000117	3.82E-06	
151	0.000142	1.99E-05	2.16E-08
7.20E-06	0.000130	3.26E-06	
152	0.000142	3.35E-05	0.000547
1.62E-05	0.000141	2.26E-06	
153	0.000142	4.14E-05	0.001007
3.67E-05	0.000142	1.07E-06	
154	0.000143	4.31E-05	0.001334
4.92E-05	0.000127	2.71E-07	
155	0.000143	3.97E-05	0.001512
5.44E-05	9.57E-05	3.51E-07	
156	0.000143	3.31E-05	0.001540
5.45E-05	5.11E-05	1.58E-06	
157	0.000143	2.49E-05	0.001432
5.10E-05	2.95E-05	3.20E-06	
158	0.000144	1.64E-05	0.001211
4.50E-05	5.04E-05	4.80E-06	
159	0.000144	8.54E-06	0.000903
3.73E-05	6.60E-05	5.99E-06	
160	0.000144	7.10E-06	0.000533
2.83E-05	7.70E-05	6.57E-06	
161	0.000144	3.24E-05	0.000125
1.86E-05	8.30E-05	6.61E-06	
162	0.000143	4.20E-05	2.75E-08
1.66E-05	8.34E-05	6.59E-06	
163	0.000236	8.41E-05	6.25E-05
4.60E-05	0.000327	3.12E-05	
164	0.000236	8.61E-05	0.000436
2.42E-05	0.000279	2.33E-05	
165	0.000236	8.88E-05	0.000890
3.96E-05	0.000201	2.12E-06	
166	0.000236	8.95E-05	0.001273
5.16E-05	0.000113	2.18E-05	
167	0.000236	8.61E-05	0.001549
6.13E-05	3.37E-05	2.28E-05	
168	0.000236	7.73E-05	0.001681
6.93E-05	1.61E-06	2.43E-05	
169	0.000236	6.37E-05	0.001631
7.53E-05	3.78E-05	2.63E-05	
170	0.000236	4.74E-05	0.001363
7.75E-05	8.56E-05	2.89E-05	
171	0.000236	3.09E-05	0.000835
6.69E-05	0.000140	3.24E-05	
172	0.000236	1.77E-05	2.55E-05
4.17E-05	0.000193	3.39E-05	
173	0.000237	2.57E-05	0.000604
7.67E-05	0.000222	3.67E-05	
174	0.000237	3.78E-05	0.001198
8.88E-05	0.000234	4.21E-05	
175	0.000237	4.94E-05	0.001543
8.25E-05	0.000211	4.20E-05	
176	0.000238	5.85E-05	0.001681
7.16E-05	0.000154	3.95E-05	
177	0.000238	6.31E-05	0.001636
5.90E-05	8.07E-05	3.49E-05	
178	0.000238	6.21E-05	0.001764
6.21E-05	5.09E-05	2.94E-05	
179	0.000238	5.55E-05	0.001813
7.13E-05	6.47E-05	2.34E-05	
180	0.000239	4.45E-05	0.001663
7.80E-05	6.98E-05	1.80E-05	
181	0.000238	3.14E-05	0.001289
7.92E-05	0.000104	1.35E-05	
182	0.000238	1.84E-05	0.000647
6.08E-05	0.000161	1.06E-05	
183	0.000237	2.38E-05	2.33E-05
3.01E-05	0.000200	1.14E-05	
184	0.000237	3.23E-05	0.000636
6.86E-05	0.000232	1.51E-05	
185	0.000236	4.56E-05	0.001272
8.41E-05	0.000251	2.03E-05	
186	0.000236	5.91E-05	0.001651
8.06E-05	0.000235	2.34E-05	
187	0.000233	7.01E-05	0.001811
7.18E-05	0.000180	2.63E-05	
188	0.000235	7.63E-05	0.001770
6.07E-05	0.000102	2.88E-05	
189	0.000235	7.67E-05	0.001841
6.25E-05	5.25E-05	3.07E-05	
190	0.000235	7.11E-05	0.001886
7.37E-05	6.85E-05	3.17E-05	
191	0.000234	6.04E-05	0.001719
8.25E-05	7.44E-05	3.19E-05	
192	0.000234	4.69E-05	0.001325
8.57E-05	0.000104	3.14E-05	
193	0.000233	3.30E-05	0.000663
6.94E-05	0.000162	2.81E-05	
194	0.000233	2.36E-05	2.46E-05
2.92E-05	0.000203	2.52E-05	
195	0.000232	2.06E-05	0.000656
6.27E-05	0.000238	2.62E-05	
196	0.000231	3.63E-05	0.001317
8.15E-05	0.000263	2.79E-05	
197	0.000231	4.28E-05	0.001712
8.02E-05	0.000251	2.63E-05	
198	0.000231	6.72E-05	0.001883
7.33E-05	0.000199	2.35E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000230	7.69E-05	0.001844
6.37E-05	0.000121	5.97E-05	
200	0.000230	8.07E-05	0.002074
6.34E-05	5.14E-05	2.09E-05	
201	0.000230	7.83E-05	0.002122
7.70E-05	6.90E-05	2.02E-05	
202	0.000230	7.07E-05	0.001934
8.83E-05	7.62E-05	1.98E-05	
203	0.000229	5.97E-05	0.001492
9.42E-05	0.000112	1.99E-05	
204	0.000230	4.79E-05	0.000750
8.15E-05	0.000177	2.11E-05	
205	0.000230	3.95E-05	3.65E-05
4.56E-05	0.000226	2.54E-05	
206	0.000230	2.65E-05	0.000929
6.72E-05	0.000229	3.23E-05	
207	0.000229	3.40E-05	0.001565
7.91E-05	0.000306	3.38E-05	
208	0.000229	5.60E-05	0.001945
7.83E-05	0.000288	3.17E-05	
209	0.000229	7.67E-05	0.002106
7.39E-05	0.000233	2.64E-05	
210	0.000229	9.31E-05	0.002076
6.76E-05	0.000152	2.07E-05	
211	0.000229	0.000103	0.001889
6.02E-05	6.37E-05	2.07E-05	
212	0.000229	0.000107	0.001576
5.14E-05	6.88E-05	2.08E-05	
213	0.000229	0.000105	0.001166
4.13E-05	8.64E-05	2.08E-05	
214	0.000229	9.84E-05	0.000686
2.97E-05	0.000100	2.13E-05	
215	0.000229	9.10E-05	0.000160
1.51E-05	0.000107	1.44E-05	
216	0.000229	8.83E-05	5.13E-05
2.81E-05	0.000108	1.76E-05	
217	0.000165	3.75E-05	1.15E-05
2.82E-05	0.000165	2.11E-05	
218	0.000165	2.66E-05	0.000364
2.09E-05	0.000138	1.60E-05	
219	0.000165	1.21E-05	0.000725
3.63E-05	9.66E-05	1.45E-05	
220	0.000165	6.74E-06	0.001022
4.89E-05	4.83E-05	1.53E-05	
221	0.000165	9.43E-06	0.001223
5.90E-05	1.03E-05	1.68E-05	
222	0.000165	1.44E-05	0.001296
6.63E-05	8.28E-06	1.88E-05	
223	0.000165	1.78E-05	0.001213
6.90E-05	4.02E-05	2.13E-05	
224	0.000165	1.82E-05	0.000963
6.35E-05	7.40E-05	2.45E-05	
225	0.000165	1.40E-05	0.000546
4.43E-05	0.000103	2.80E-05	
226	0.000165	6.90E-06	3.19E-06
2.16E-05	0.000124	2.85E-05	
227	0.000165	8.70E-06	0.000368
4.99E-05	0.000132	2.93E-05	
228	0.000165	1.38E-05	0.000812
7.09E-05	0.000129	3.32E-05	
229	0.000164	1.51E-05	0.001117
7.51E-05	0.000111	3.26E-05	
230	0.000164	1.37E-05	0.001275
6.97E-05	7.41E-05	2.99E-05	
231	0.000164	1.46E-05	0.001283
5.88E-05	2.84E-05	2.52E-05	
232	0.000163	1.81E-05	0.001417
6.03E-05	3.66E-05	1.96E-05	
233	0.000163	2.12E-05	0.001414
6.80E-05	5.04E-05	1.41E-05	
234	0.000163	2.27E-05	0.001245
7.01E-05	5.64E-05	9.89E-06	
235	0.000163	2.12E-05	0.000911
6.26E-05	8.69E-05	7.49E-06	
236	0.000163	1.54E-05	0.000417
3.86E-05	0.000116	6.46E-06	
237	0.000163	9.20E-06	3.76E-06
1.55E-05	0.000131	6.50E-06	
238	0.000163	7.01E-06	0.000407
4.47E-05	0.000141	7.91E-06	
239	0.000164	1.29E-05	0.000895
6.70E-05	0.000143	1.15E-05	
240	0.000164	1.46E-05	0.001232
7.29E-05	0.000128	1.50E-05	
241	0.000165	1.31E-05	0.001410
6.91E-05	9.16E-05	1.85E-05	
242	0.000165	1.01E-05	0.001421
5.96E-05	4.13E-05	2.18E-05	
243	0.000166	8.47E-06	0.001485
6.12E-05	3.84E-05	2.41E-05	
244	0.000166	1.09E-05	0.001476
7.08E-05	5.43E-05	2.55E-05	
245	0.000167	1.21E-05	0.001290
7.45E-05	6.13E-05	2.59E-05	
246	0.000167	1.05E-05	0.000939
6.82E-05	8.72E-05	2.57E-05	
247	0.000167	6.18E-06	0.000428
4.51E-05	0.000117	2.31E-05	
248	0.000168	1.12E-05	3.78E-06
1.49E-05	0.000134	2.07E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000168	1.68E-05	0.000424
4.00E-05	0.000146	2.16E-05	
250	0.000168	2.22E-05	0.000932
6.44E-05	0.000151	2.19E-05	
251	0.000169	2.26E-05	0.001284
7.20E-05	0.000140	2.05E-05	
252	0.000169	2.00E-05	0.001473
6.98E-05	0.000106	1.92E-05	
253	0.000169	1.57E-05	0.001540
6.17E-05	5.53E-05	1.80E-05	
254	0.000169	1.11E-05	0.001698
6.36E-05	3.70E-05	1.71E-05	
255	0.000169	6.81E-06	0.001688
7.58E-05	5.44E-05	1.65E-05	
256	0.000169	4.60E-06	0.001477
8.20E-05	6.27E-05	1.62E-05	
257	0.000176	5.58E-06	0.001075
7.80E-05	9.62E-05	1.62E-05	
258	0.000170	1.52E-05	0.000486
5.59E-05	0.000132	1.52E-05	
259	0.000170	2.09E-05	7.33E-06
2.54E-05	0.000154	1.56E-05	
260	0.000170	2.95E-05	0.000639
4.53E-05	0.000176	1.80E-05	
261	0.000170	3.40E-05	0.001152
6.53E-05	0.000182	1.80E-05	
262	0.000170	3.33E-05	0.001502
7.21E-05	0.000167	1.79E-05	
263	0.000171	2.90E-05	0.001683
7.11E-05	0.000130	1.80E-05	
264	0.000171	2.28E-05	0.001699
6.59E-05	7.52E-05	1.82E-05	
265	0.000171	1.60E-05	0.001571
5.85E-05	3.35E-05	1.84E-05	
266	0.000171	9.41E-06	0.001325
4.97E-05	5.54E-05	1.85E-05	
267	0.000171	9.27E-06	0.000987
3.93E-05	7.20E-05	1.85E-05	
268	0.000171	2.46E-05	0.000585
2.72E-05	8.39E-05	1.88E-05	
269	0.000171	4.24E-05	0.000141
1.21E-05	9.14E-05	1.29E-05	
270	0.000170	4.55E-05	6.19E-06
1.95E-05	9.27E-05	1.57E-05	
271	0.000242	6.28E-06	.000000
2.77E-05	0.000401	1.21E-06	
272	0.000342	2.73E-05	.000000
1.59E-05	0.000228	4.87E-06	
273	.000000	.000000	.000000
9.21E-06	0.000236	4.74E-06	
274	0.000505	1.29E-06	.000000
3.98E-06	0.000242	5.22E-06	
275	0.000242	1.09E-05	.000000
2.04E-05	0.000268	5.71E-06	
276	0.000554	5.45E-06	.000000
1.65E-05	0.000115	3.17E-06	
277	0.000166	1.62E-05	.000000
2.31E-05	0.000228	2.13E-06	
278	0.000256	2.00E-05	.000000
1.07E-05	0.000155	6.70E-07	
279	.000000	.000000	.000000
6.38E-06	0.000163	5.57E-07	
280	0.000377	9.38E-07	.000000
2.74E-06	0.000167	9.16E-07	
281	0.000161	3.61E-06	.000000
6.13E-06	0.000190	1.16E-06	
282	0.000378	1.82E-05	.000000
5.26E-06	0.000101	1.03E-06	
283	0.000106	2.75E-06	.000000
2.42E-05	0.000108	1.48E-06	
284	0.000183	1.02E-05	.000000
1.98E-05	9.70E-05	2.85E-06	
285	1.25E-07	4.22E-06	.000000
5.97E-06	0.000107	3.20E-06	
286	0.000257	5.18E-05	.000000
-4.80E-06	0.000108	3.17E-06	
287	9.12E-05	2.48E-05	.000000
-6.91E-06	0.000128	3.26E-06	
288	0.000216	3.58E-05	.000000
2.27E-06	8.47E-05	6.59E-06	

COMB DB-G1-1 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000266	-2.65E-05	-2.83E-07
-0.000131	-0.000107	-3.99E-06	
2	-0.000266	-2.78E-05	-0.001799
-0.000219	-0.000101	-3.03E-06	
3	-0.000265	-3.00E-05	-0.003476
-0.000305	-8.81E-05	-1.45E-06	
4	-0.000265	-3.18E-05	-0.004625
-0.000356	-6.87E-05	-1.20E-06	
5	-0.000265	-3.28E-05	-0.005093
-0.000363	-8.73E-05	-2.64E-06	
6	-0.000265	-3.22E-05	-0.004858
-0.000331	-0.000185	-4.70E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000266	-2.87E-05	-0.003989
-0.000266	-0.000262	-5.89E-06	
8	-0.000267	-2.07E-05	-0.002708
-0.000175	-0.000301	-6.15E-06	
9	-0.000268	-1.04E-05	-0.001279
-8.28E-05	-0.000289	-5.52E-06	
10	-0.000270	-3.74E-06	-3.38E-07
-4.59E-05	-0.000225	-5.30E-06	
11	-0.000271	-3.14E-06	-0.000896
-0.000101	-0.000167	-4.98E-06	
12	-0.000273	-9.73E-06	-0.002380
-0.000195	-9.85E-05	-3.22E-06	
13	-0.000275	-2.03E-05	-0.003862
-0.000283	-7.81E-05	-1.42E-06	
14	-0.000277	-2.38E-05	-0.005076
-0.000351	-7.20E-05	-8.98E-07	
15	-0.000279	-2.28E-05	-0.005745
-0.000381	-6.32E-05	-1.47E-06	
16	-0.000280	-1.93E-05	-0.005750
-0.000373	-0.000151	-3.14E-06	
17	-0.000280	-1.49E-05	-0.005090
-0.000331	-0.000238	-4.67E-06	
18	-0.000280	-1.02E-05	-0.003881
-0.000254	-0.000298	-5.53E-06	
19	-0.000280	-6.05E-06	-0.002396
-0.000162	-0.000315	-5.41E-06	
20	-0.000280	-2.71E-06	-0.000904

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000192	-1.46E-05	-0.001964
-0.000231	-7.26E-05	-9.10E-07	
58	-0.000192	-1.28E-05	-0.002638
-0.000289	-5.44E-05	-1.53E-06	
59	-0.000192	-1.10E-05	-0.002936
-0.000305	-3.33E-05	-1.40E-06	
60	-0.000192	-9.24E-06	-0.002826
-0.000280	-9.81E-05	-1.15E-06	
61	-0.000192	-7.55E-06	-0.002352
-0.000222	-0.000150	-1.21E-06	
62	-0.000193	-6.33E-06	-0.001627
-0.000143	-0.000176	-1.42E-06	
63	-0.000193	-5.85E-06	-0.000794
-5.98E-05	-0.000174	-1.60E-06	
64	-0.000193	-4.81E-06	-4.61E-08
-1.86E-05	-0.000148	-9.53E-07	
65	-0.000193	-2.58E-06	-0.000579
-6.39E-05	-0.000122	-4.58E-07	
66	-0.000193	-2.97E-06	-0.001489
-0.000147	-8.12E-05	-3.55E-07	
67	-0.000193	-4.42E-06	-0.002377
-0.000229	-6.58E-05	-3.96E-07	
68	-0.000193	-5.62E-06	-0.003099
-0.000292	-5.89E-05	-3.65E-07	
69	-0.000193	-6.15E-06	-0.003500
-0.000324	-4.26E-05	-2.79E-07	
70	-0.000193	-5.89E-06	-0.003507
-0.000320	-7.68E-05	-2.44E-07	
71	-0.000192	-4.94E-06	-0.003115
-0.000280	-0.000137	-3.46E-07	
72	-0.000192	-3.50E-06	-0.002399
-0.000211	-0.000178	-5.40E-07	
73	-0.000192	-1.81E-06	-0.001510
-0.000127	-0.000192	-8.24E-07	
74	-0.000192	-1.47E-06	-0.000590
-4.47E-05	-0.000180	-1.00E-06	
75	-0.000192	-2.55E-06	-4.67E-08
-9.51E-06	-0.000160	-5.57E-07	
76	-0.000192	-3.45E-06	-0.000606
-5.51E-05	-0.000133	-4.16E-07	
77	-0.000192	-4.97E-06	-0.001557
-0.000139	-9.20E-05	-4.19E-07	
78	-0.000192	-6.72E-06	-0.002490
-0.000223	-7.04E-05	-3.58E-07	
79	-0.000192	-8.16E-06	-0.003255
-0.000292	-6.39E-05	-3.93E-07	
80	-0.000193	-9.09E-06	-0.003682
-0.000330	-4.71E-05	-3.31E-07	
81	-0.000193	-9.38E-06	-0.003686
-0.000330	-6.78E-05	-2.33E-07	
82	-0.000193	-8.85E-06	-0.003265
-0.000292	-0.000133	-2.15E-07	
83	-0.000193	-7.67E-06	-0.002502
-0.000224	-0.000177	-4.45E-07	
84	-0.000193	-6.25E-06	-0.001569
-0.000139	-0.000194	-8.36E-07	
85	-0.000194	-4.76E-06	-0.000612
-5.49E-05	-0.000185	-1.15E-06	
86	-0.000194	-2.90E-06	-4.67E-08
-9.04E-06	-0.000165	-6.91E-07	
87	-0.000194	-2.43E-06	-0.000619
-4.64E-05	-0.000140	-8.16E-07	
88	-0.000194	-4.98E-06	-0.001589
-0.000131	-9.88E-05	-8.75E-07	
89	-0.000194	-9.15E-06	-0.002541
-0.000216	-8.11E-05	-8.35E-07	
90	-0.000194	-1.31E-05	-0.003322
-0.000287	-7.43E-05	-7.48E-07	
91	-0.000194	-1.64E-05	-0.003762
-0.000329	-5.59E-05	-6.03E-07	
92	-0.000194	-1.89E-05	-0.003773
-0.000333	-5.46E-05	-4.76E-07	
93	-0.000195	-2.00E-05	-0.003351
-0.000299	-0.000120	-3.62E-07	
94	-0.000195	-1.98E-05	-0.002578
-0.000234	-0.000169	-2.71E-07	
95	-0.000195	-1.83E-05	-0.001624
-0.000151	-0.000192	-6.43E-07	
96	-0.000195	-1.59E-05	-0.000639
-6.68E-05	-0.000189	-1.15E-06	
97	-0.000195	-1.31E-05	-5.46E-08
-2.15E-05	-0.000173	-6.21E-07	
98	-0.000195	-6.94E-06	-0.001031
-6.08E-05	-0.000140	-4.31E-07	
99	-0.000195	-4.01E-06	-0.002155
-0.000154	-0.000101	-3.59E-07	
100	-0.000195	-3.40E-06	-0.003220
-0.000247	-6.03E-05	-8.51E-07	
101	-0.000195	-2.95E-06	-0.004064
-0.000324	-2.28E-05	-1.05E-06	
102	-0.000196	-2.92E-06	-0.004543
-0.000375	-4.87E-06	-1.05E-06	
103	-0.000196	-2.74E-06	-0.004568
-0.000393	-9.93E-07	-9.27E-07	
104	-0.000196	-2.46E-06	-0.004113
-0.000371	-0.000113	-9.27E-07	
105	-0.000196	-4.73E-06	-0.003217
-0.000310	-0.000191	-8.02E-07	
106	-0.000195	-7.37E-06	-0.001966
-0.000212	-0.000260	-5.37E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
11

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	-0.000195	-8.69E-06	-0.000471
-8.55E-05	-0.000307	-2.39E-06	
108	-0.000195	-8.77E-06	-3.23E-08
-5.92E-05	-0.000312	-2.73E-06	
109	-0.000131	-1.14E-05	-3.43E-09
-5.10E-05	-7.15E-05	-5.19E-06	
110	-0.000131	-5.62E-06	-0.000482
-9.17E-05	-6.77E-05	-5.15E-06	
111	-0.000132	-1.56E-05	-0.000957
-0.000135	-5.76E-05	-4.68E-06	
112	-0.000132	-3.59E-05	-0.001306
-0.000163	-4.18E-05	-3.53E-06	
113	-0.000133	-4.84E-05	-0.001479
-0.000171	-1.90E-05	-1.79E-06	
114	-0.000133	-5.11E-05	-0.001451
-0.000158	-4.24E-05	-4.82E-07	
115	-0.000133	-4.42E-05	-0.001238
-0.000127	-7.21E-05	-1.41E-07	
116	-0.000133	-3.09E-05	-0.000887
-8.57E-05	-9.00E-05	-9.72E-07	
117	-0.000132	-1.48E-05	-0.000454
-4.10E-05	-9.56E-05	-2.13E-06	
118	-0.000131	-2.46E-06	-4.94E-09
-1.99E-05	-9.17E-05	-3.14E-06	
119	-0.000131	-8.67E-06	-0.000353
-4.53E-05	-8.40E-05	-3.70E-06	
120	-0.000129	-2.79E-05	-0.000870
-9.02E-05	-6.51E-05	-4.17E-06	
121	-0.000128	-4.82E-05	-0.001354
-0.000134	-5.40E-05	-4.03E-06	
122	-0.000126	-6.53E-05	-0.001739
-0.000168	-4.68E-05	-3.23E-06	
123	-0.000125	-7.54E-05	-0.001953
-0.000186	-3.19E-05	-1.96E-06	
124	-0.000124	-7.65E-05	-0.001959
-0.000183	-3.39E-05	-8.94E-07	
125	-0.000124	-6.82E-05	-0.001755
-0.000161	-7.04E-05	-8.34E-07	
126	-0.000124	-5.25E-05	-0.001376
-0.000124	-9.58E-05	-6.96E-07	
127	-0.000124	-3.31E-05	-0.000892
-7.87E-05	-0.000108	-1.42E-06	
128	-0.000125	-1.36E-05	-0.000365
-3.35E-05	-0.000109	-2.54E-06	
129	-0.000125	-2.71E-06	-5.72E-09
-1.48E-05	-0.000104	-3.23E-06	
130	-0.000126	-6.46E-06	-0.000380
-4.05E-05	-9.55E-05	-3.78E-06	
131	-0.000126	-2.61E-05	-0.000934
-8.64E-05	-7.48E-05	-4.18E-06	
132	-0.000127	-4.60E-05	-0.001452
-0.000132	-5.82E-05	-3.96E-06	
133	-0.000128	-6.13E-05	-0.001868
-0.000169	-5.10E-05	-3.09E-06	
134	-0.000129	-7.09E-05	-0.002097
-0.000190	-3.47E-05	-1.79E-06	
135	-0.000130	-7.01E-05	-0.002099
-0.000190	-2.84E-05	-1.09E-06	
136	-0.000130	-6.01E-05	-0.001873
-0.000169	-0.000105	-1.13E-06	
137	-0.000131	-4.30E-05	-0.001459
-0.000131	-9.66E-05	-8.59E-07	
138	-0.000132	-2.26E-05	-0.000940
-8.59E-05	-0.000110	-1.38E-06	
139	-0.000132	-3.20E-06	-0.000383
-3.97E-05	-0.000112	-2.40E-06	
140	-0.000133	-4.71E-06	-4.34E-09
-1.37E-05	-0.000108	-3.03E-06	
141	-0.000133	-1.54E-05	-0.000390
-3.52E-05	-0.000100	-3.52E-06	
142	-0.000133	-3.36E-05	-0.000961
-8.15E-05	-7.98E-05	-3.83E-06	
143	-0.000134	-5.16E-05	-0.001496
-0.000128	-6.81E-05	-3.97E-06	
144	-0.000134	-6.52E-05	-0.001927
-0.000166	-6.05E-05	-2.58E-06	
145	-0.000135	-7.11E-05	-0.002169
-0.000190	-4.22E-05	-1.28E-06	
146	-0.000135	-6.73E-05	-0.002177
-0.000192	-2.66E-05	-1.29E-06	
147	-0.000136	-5.44E-05	-0.001950
-0.000173	-6.10E-05	-1.23E-06	
148	-0.000136	-3.53E-05	-0.001527
-0.000137	-9.25E-05	-1.07E-06	
149	-0.000136	-1.39E-05	-0.000990
-9.17E-05	-0.000110	-1.44E-06	
150	-0.000136	-9.21E-06	-0.000407
-4.54E-05	-0.000116	-2.46E-06	
151	-0.000137	-1.62E-05	-6.39E-09
-1.94E-05	-0.000115	-3.14E-06	
152	-0.000137	-3.27E-05	-0.000659
-5.09E-05	-0.000105	-3.79E-06	
153	-0.000137	-5.18E-05	-0.001327
-0.000105	-0.000105	-3.97E-06	
154	-0.000137	-6.93E-05	-0.001935
-0.000159	-5.60E-05	-3.34E-06	
155	-0.000138	-8.11E-05	-0.002401
-0.000204	-2.62E-05	-2.20E-06	
156	-0.000138	-8.40E-05	-0.002650
-0.000234	-4.01E-06	-1.58E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
12

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000138	-7.65E-05	-0.002637
-0.000244	-1.44E-05	-1.75E-06	
158	-0.000138	-5.85E-05	-0.002351
-0.000232	-6.17E-05	-1.74E-06	
159	-0.000138	-3.23E-05	-0.001819
-0.000198	-0.000108	-1.62E-06	
160	-0.000138	-6.07E-06	-0.001098
-0.000144	-0.000145	-1.47E-06	
161	-0.000138	-7.10E-06	-0.000260
-7.66E-05	-0.000167	-1.35E-06	
162	-0.000138	-8.89E-06	-1.65E-09
-6.19E-05	-0.000170	-1.33E-06	
163	-0.000229	-2.15E-05	-1.21E-05
-2.97E-06	-0.000101	-2.71E-05	
164	-0.000228	-2.18E-05	-0.001336
-0.000177	-9.48E-05	-2.21E-05	
165	-0.000228	-2.23E-05	-0.002654
-0.000327	-8.16E-05	-2.32E-05	
166	-0.000228	-2.25E-05	-0.003567
-0.000402	-6.25E-05	-2.36E-05	
167	-0.000228	-2.22E-05	-0.003954
-0.000416	-6.25E-05	-2.43E-05	
168	-0.000228	-2.10E-05	-0.003784
-0.000381	-0.000144	-2.54E-05	
169	-0.000228	-1.84E-05	-0.003118
-0.000304	-0.000208	-2.67E-05	
170	-0.000238	-1.42E-05	-0.002122
-0.000198	-0.000238	-2.80E-05	
171	-0.000230	-8.67E-06	-0.001002
-7.54E-05	-0.000228	-2.96E-05	
172	-0.000231	-3.57E-06	-2.09E-06
-1.60E-06	-0.000183	-2.88E-05	
173	-0.000231	-2.76E-06	-0.000706
-6.84E-05	-0.000142	-2.97E-05	
174	-0.000233	-7.07E-06	-0.001892
-0.000195	-8.74E-05	-3.31E-05	
175	-0.000234	-1.24E-05	-0.003068
-0.000309	-7.26E-05	-3.34E-05	
176	-0.000235	-1.46E-05	-0.004030
-0.000392	-6.61E-05	-3.31E-05	
177	-0.000238	-1.43E-05	-0.004566
-0.000431	-4.99E-05	-3.19E-05	
178	-0.000235	-1.24E-05	-0.004572
-0.000425	-0.000114	-2.99E-05	
179	-0.000235	-9.68E-06	-0.004046
-0.000377	-0.000188	-2.72E-05	
180	-0.000235	-6.63E-06	-0.003089
-0.000287	-0.000238	-2.41E-05	
181	-0.000234	-3.63E-06	-0.001911
-0.000171	-0.000252	-2.07E-05	
182	-0.000234	-1.71E-06	-0.000717
-4.89E-05	-0.000229	-1.53E-05	
183	-0.000234	-3.12E-06	-3.02E-06
-3.16E-06	-0.000195	-1.14E-05	
184	-0.000234	-4.78E-06	-0.000733
-5.94E-05	-0.000155	-1.04E-05	
185	-0.000233	-9.47E-06	-0.001961
-0.000184	-9.92E-05	-1.31E-05	
186	-0.000233	-1.43E-05	-0.003188
-0.000302	-7.73E-05	-1.72E-05	
187	-0.000232	-1.93E-05	-0.004203
-0.000392	-7.12E-05	-2.25E-05	
188	-0.000232	-1.67E-05	-0.004770
-0.000437	-5.47E-05	-2.86E-05	
189	-0.000232	-1.87E-05	-0.004775
-0.000437	-0.000103	-3.43E-05	
190	-0.000231	-1.92E-05	-0.004215
-0.000392	-8.83E-05	-3.91E-05	
191	-0.000231	-1.71E-05	-0.003204
-0.000302	-0.000236	-4.16E-05	
192	-0.000231	-1.17E-05	-0.001976
-0.000185	-0.000253	-4.15E-05	
193	-0.000230	-5.24E-06	-0.000742
-5.93E-05	-0.000234	-3.61E-05	
194	-0.000230	-3.61E-06	-3.07E-06
-3.16E-06	-0.000203	-3.09E-05	
195	-0.000230	-2.09E-06	-0.000747
-5.12E-05	-0.000164	-3.02E-05	
196	-0.000229	-7.22E-06	-0.001995
-0.000175	-0.000107	-2.85E-05	
197	-0.000229	-1.30E-05	-0.003242
-0.000294	-8.83E-05	-2.54E-05	
198	-0.000229	-1.89E-05	-0.004274
-0.000386	-8.19E-05	-2.30E-05	
199	-0.000228	-2.44E-05	-0.004855
-0.000435	-6.37E-05	-2.09E-05	
200	-0.000228	-2.89E-05	-0.004867
-0.000440	-8.64E-05	-1.95E-05	
201	-0.000228	-3.15E-05	-0.004306
-0.000400	-0.000166	-1.86E-05	
202	-0.000228	-3.11E-05	-0.003284
-0.000313	-0.000226	-1.99E-05	
203	-0.000228	-2.66E-05	-0.002036
-0.000196	-0.000250	-2.17E-05	
204	-0.000228	-1.70E-05	-0.000773
-6.91E-05	-0.000238	-1.83E-05	
205	-0.000227	-7.27E-06	-8.86E-06
-8.26E-07	-0.000211	-1.71E-05	
206	-0.000227	-4.52E-06	-0.001238
-7.68E-05	-0.000161	-1.89E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
13

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000227	-3.63E-06	-0.002669
-0.000206	-0.000108	-1.92E-05	
208	-0.000227	-2.95E-06	-0.004045
-0.000325	-6.02E-05	-1.97E-05	
209	-0.000227	-2.34E-06	-0.005151
-0.000420	-1.90E-05	-2.01E-05	
210	-0.000227	-3.03E-06	-0.005787
-0.000481	-5.85E-06	-2.05E-05	
211	-0.000227	-5.10E-06	-0.005841
-0.000504	-6.39E-05	-2.08E-05	
212	-0.000226	-7.02E-06	-0.005270
-0.000483	-0.000154	-2.12E-05	
213	-0.000224	-8.85E-06	-0.004122
-0.000410	-0.000249	-2.15E-05	
214	-0.000226	-1.07E-05	-0.002508
-0.000279	-0.000339	-2.68E-05	
215	-0.000226	-1.29E-05	-0.000564
-7.10E-05	-0.000403	-2.14E-05	
216	-0.000226	-1.32E-05	-8.34E-06
-4.96E-06	-0.000415	-1.59E-05	
217	-0.000160	-1.52E-05	-2.08E-05
-3.51E-06	-8.12E-05	-1.97E-05	
218	-0.000161	-1.13E-05	-0.000713
-0.000100	-7.58E-05	-1.62E-05	
219	-0.000161	-7.32E-06	-0.001373
-0.000193	-6.41E-05	-1.73E-05	
220	-0.000161	-6.08E-06	-0.001845
-0.000247	-4.69E-05	-1.79E-05	
221	-0.000162	-1.72E-05	-0.002064
-0.000261	-2.34E-05	-1.86E-05	
222	-0.000162	-2.16E-05	-0.002005
-0.000239	-6.62E-05	-1.96E-05	
223	-0.000162	-1.96E-05	-0.001690
-0.000187	-0.000104	-2.08E-05	
224	-0.000162	-1.31E-05	-0.001193
-0.000119	-0.000125	-2.21E-05	
225	-0.000162	-5.28E-06	-0.000601
-4.61E-05	-0.000127	-2.36E-05	
226	-0.000161	-2.73E-06	-9.36E-06
-1.60E-06	-0.000113	-2.29E-05	
227	-0.000161	-5.55E-06	-0.000455
-4.47E-05	-9.81E-05	-2.37E-05	
228	-0.000161	-1.26E-05	-0.001131
-0.000117	-7.17E-05	-2.65E-05	
229	-0.000160	-2.48E-05	-0.001776
-0.000189	-5.96E-05	-2.66E-05	
230	-0.000161	-3.59E-05	-0.002293
-0.000246	-5.21E-05	-2.61E-05	
231	-0.000158	-4.28E-05	-0.002581
-0.000274	-3.61E-05	-2.47E-05	
232	-0.000158	-4.39E-05	-0.002586
-0.000271	-5.05E-05	-2.24E-05	
233	-0.000158	-3.91E-05	-0.002310
-0.000237	-9.70E-05	-1.91E-05	
234	-0.000158	-2.96E-05	-0.001799
-0.000176	-0.000129	-1.55E-05	
235	-0.000158	-1.79E-05	-0.001153
-0.000102	-0.000142	-1.18E-05	
236	-0.000159	-7.11E-06	-0.000468
-3.15E-05	-0.000138	-7.93E-06	
237	-0.000159	-2.05E-06	-9.92E-06
-3.24E-06	-0.000127	-6.42E-06	
238	-0.000159	-2.31E-06	-0.000483
-3.90E-05	-0.000111	-6.30E-06	
239	-0.000160	-9.17E-06	-0.001198
-0.000111	-8.29E-05	-7.18E-06	
240	-0.000160	-2.07E-05	-0.001882
-0.000187	-6.40E-05	-7.88E-06	
241	-0.000160	-3.05E-05	-0.002435
-0.000247	-5.68E-05	-1.35E-05	
242	-0.000161	-3.57E-05	-0.002741
-0.000280	-4.01E-05	-1.93E-05	
243	-0.000161	-3.51E-05	-0.002743
-0.000280	-4.21E-05	-2.51E-05	
244	-0.000161	-2.88E-05	-0.002442
-0.000248	-9.25E-05	-3.01E-05	
245	-0.000162	-1.83E-05	-0.001890
-0.000187	-0.000129	-3.29E-05	
246	-0.000162	-6.61E-06	-0.001206
-0.000112	-0.000144	-3.35E-05	
247	-0.000164	-3.63E-06	-0.000487
-3.88E-05	-0.000143	-2.98E-05	
248	-0.000163	-3.61E-06	-1.05E-05
-3.32E-06	-0.000133	-2.63E-05	
249	-0.000163	-7.50E-06	-0.000495
-3.31E-05	-0.000117	-2.69E-05	
250	-0.000163	-1.70E-05	-0.001227
-0.000106	-9.91E-05	-2.50E-05	
251	-0.000163	-2.67E-05	-0.001929
-0.000182	-7.42E-05	-2.23E-05	
252	-0.000164	-3.40E-05	-0.002498
-0.000244	-6.66E-05	-1.94E-05	
253	-0.000164	-3.61E-05	-0.002817
-0.000279	-4.83E-05	-1.70E-05	
254	-0.000164	-3.22E-05	-0.002825
-0.000282	-3.07E-05	-1.53E-05	
255	-0.000165	-2.27E-05	-0.002523
-0.000253	-8.19E-05	-1.43E-05	
256	-0.000165	-9.91E-06	-0.001961
-0.000194	-0.000122	-1.48E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
14

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000165	-9.71E-06	-0.001257
-0.000119	-0.000143	-1.64E-05	
258	-0.000165	-1.08E-05	-0.000509
-4.56E-05	-0.000148	-1.45E-05	
259	-0.000165	-1.34E-05	-2.00E-05
-2.28E-06	-0.000141	-1.37E-05	
260	-0.000165	-2.08E-05	-0.000834
-4.90E-05	-0.000122	-1.29E-05	
261	-0.000166	-3.05E-05	-0.001690
-0.000130	-9.38E-05	-1.62E-05	
262	-0.000166	-3.88E-05	-0.002483
-0.000212	-6.03E-05	-1.69E-05	
263	-0.000166	-4.29E-05	-0.003102
-0.000282	-2.65E-05	-1.76E-05	
264	-0.000166	-4.09E-05	-0.003443
-0.000328	-4.40E-06	-1.82E-05	
265	-0.000166	-3.22E-05	-0.003445
-0.000344	-2.07E-05	-1.87E-05	
266	-0.000166	-1.70E-05	-0.003093
-0.000325	-7.78E-05	-1.92E-05	
267	-0.000166	-4.54E-06	-0.002416
-0.000269	-0.000139	-2.21E-05	
268	-0.000166	-4.45E-06	-0.001482
-0.000176	-0.000191	-2.70E-05	
269	-0.000166	-8.25E-06	-0.000378
-4.34E-05	-0.000232	-1.86E-05	
270	-0.000166	-8.93E-06	-2.63E-05
-2.66E-06	-0.000243	-4.36E-05	
271	-0.000392	-3.88E-06	.000000
-0.000126	-0.000105	-3.99E-06	
272	-0.000491	-1.90E-05	.000000
-4.57E-05	-0.000221	-5.30E-06	
273	.000000	.000000	.000000
-3.29E-05	-0.000231	-4.70E-06	
274	-0.000360	-1.81E-06	.000000
-3.21E-05	-0.000239	-5.11E-06	
275	-0.000311	-8.45E-06	.000000
-5.93E-05	-0.000242	-4.83E-06	
276	-0.000267	-2.63E-06	.000000
-0.000121	-0.000503	-1.09E-06	
277	-0.000208	-1.29E-05	.000000
-4.13E-05	-8.74E-05	-7.35E-07	
278	-0.000359	-1.42E-05	.000000
-1.86E-05	-0.000147	-9.53E-07	
279	.000000	.000000	.000000
-9.70E-06	-0.000159	-5.57E-07	
280	-0.000262	-1.35E-06	.000000
-1.02E-05	-0.000165	-6.97E-07	
281	-0.000201	-4.51E-06	.000000
-1.39E-05	-0.000173	-6.21E-07	
282	-0.000205	-9.86E-06	.000000
-2.94E-05	-0.000316	-2.73E-06	
283	-7.80E-05	-5.44E-06	.000000
-4.53E-05	-6.69E-05	-5.19E-06	
284	-0.000243	-9.59E-06	.000000
-3.39E-05	-8.40E-05	-3.14E-06	
285	-3.88E-07	-1.31E-05	.000000
-1.47E-05	-0.000104	-3.23E-06	
286	-0.000180	-5.68E-05	.000000
-9.18E-06	-0.000110	-3.03E-06	
287	-0.000125	-4.68E-05	.000000
-9.06E-06	-0.000117	-3.14E-06	
288	-0.000145	-2.76E-05	.000000
-3.17E-05	-0.000177	-1.33E-06	

COMB DB-G1-2 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000463	0.000166	3.24E-08
6.49E-05	0.000654	9.53E-06	
2	0.000463	0.000175	0.000839
8.27E-05	0.000591	7.92E-06	
3	0.000462	0.000191	0.001696
9.01E-05	0.000447	5.72E-06	
4	0.000462	0.000205	0.002418
9.14E-05	0.000277	3.54E-06	
5	0.000463	0.000205	0.002942
9.57E-05	0.000111	1.81E-06	
6	0.000463	0.000187	0.003197
0.000104	5.72E-06	6.08E-07	
7	0.000464	0.000153	0.003110
0.000108	6.33E-05	1.78E-06	
8	0.000464	0.000110	0.002607
9.56E-05	0.000154	3.67E-06	
9	0.000465	6.95E-05	0.001596
5.67E-05	0.000260	5.83E-06	
10	0.000466	3.81E-05	4.31E-08
3.34E-05	0.000381	7.08E-06	
11	0.000467	5.55E-05	0.001146
5.55E-05	0.000454	8.59E-06	
12	0.000468	8.83E-05	0.002295
9.23E-05	0.000492	8.95E-06	
13	0.000469	0.000126	0.002948
0.000103	0.000453	7.98E-06	
14	0.000470	0.000155	0.003199
9.77E-05	0.000346	6.43E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
15

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
15	0.000471	0.000170	0.003103
8.74E-05	0.000198	4.23E-06	
16	0.000472	0.000168	0.003336
9.38E-05	9.54E-05	2.02E-06	
17	0.000474	0.000149	0.003437
0.000104	0.000121	1.60E-06	
18	0.000474	0.000118	0.003164
0.000106	0.000131	1.83E-06	
19	0.000475	7.83E-05	0.002460
8.90E-05	0.000193	3.65E-06	
20	0.000475	4.16E-05	0.001225
4.42E-05	0.000307	5.72E-06	
21	0.000475	4.41E-05	4.46E-08
2.66E-05	0.000396	6.77E-06	
22	0.000473	6.73E-05	0.001206
4.97E-05	0.000473	8.40E-06	
23	0.000471	0.000106	0.002429
9.10E-05	0.000519	8.99E-06	
24	0.000469	0.000146	0.003141
0.000105	0.000488	8.24E-06	
25	0.000466	0.000179	0.003435
0.000101	0.000383	6.74E-06	
26	0.000465	0.000198	0.003346
9.07E-05	0.000265	4.49E-06	
27	0.000463	0.000198	0.003478
9.26E-05	0.000100	2.06E-06	
28	0.000461	0.000180	0.003573
0.000103	0.000129	1.50E-06	
29	0.000459	0.000148	0.003269
0.000106	0.000140	1.94E-06	
30	0.000458	0.000107	0.002528
9.18E-05	0.000198	3.89E-06	
31	0.000456	6.72E-05	0.001255
4.91E-05	0.000314	6.26E-06	
32	0.000455	4.26E-05	4.89E-08
2.52E-05	0.000406	7.53E-06	
33	0.000454	4.64E-05	0.001247
4.58E-05	0.000485	9.15E-06	
34	0.000452	8.88E-05	0.002516
9.10E-05	0.000535

61	0.000362	4.03E-05	0.002556
0.000101	6.69E-05	1.30E-06	
62	0.000362	3.20E-05	0.002090
8.39E-05	0.000140	1.81E-06	
63	0.000362	3.18E-05	0.001239
4.10E-05	0.000215	2.21E-06	
64	0.000362	3.74E-05	3.33E-08
1.49E-05	0.000286	1.38E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	0.000362	3.21E-05	0.000868
6.03E-05	0.000325	1.72E-06	
66	0.000362	2.60E-05	0.001806
9.89E-05	0.000339	1.49E-06	
67	0.000362	2.40E-05	0.002390
0.000111	0.000303	1.13E-06	
68	0.000362	2.43E-05	0.002655
0.000106	0.000221	7.93E-07	
69	0.000362	2.43E-05	0.002622
9.11E-05	0.000111	6.00E-07	
70	0.000362	2.32E-05	0.002860
9.51E-05	7.76E-05	5.75E-07	
71	0.000362	2.12E-05	0.002901
0.000104	0.000103	6.86E-07	
72	0.000362	2.15E-05	0.002615
0.000102	0.000113	1.01E-06	
73	0.000362	2.66E-05	0.001979
8.24E-05	0.000170	1.90E-06	
74	0.000362	3.47E-05	0.000953
3.57E-05	0.000248	2.24E-06	
75	0.000362	3.85E-05	3.37E-08
4.42E-06	0.000301	1.21E-06	
76	0.000362	3.70E-05	0.000934
4.94E-05	1.58E-06	0.000344	
77	0.000362	3.37E-05	0.001948
9.14E-05	0.000366	1.55E-06	
78	0.000362	3.59E-05	0.002592
0.000107	0.000337	1.32E-06	
79	0.000362	3.86E-05	0.002896
0.000105	0.000256	1.02E-06	
80	0.000362	4.04E-05	0.002868
9.32E-05	0.000138	6.91E-07	
81	0.000362	4.09E-05	0.002991
9.59E-05	8.13E-05	5.15E-07	
82	0.000362	4.04E-05	0.003023
0.000108	0.000110	6.03E-07	
83	0.000362	3.85E-05	0.002707
0.000109	0.000122	1.03E-06	
84	0.000362	3.64E-05	0.002036
9.30E-05	0.000172	1.83E-06	
85	0.000362	3.86E-05	0.000976
4.96E-05	0.000253	2.34E-06	
86	0.000362	3.92E-05	3.78E-08
3.51E-06	0.000362	1.82E-06	
87	0.000362	3.45E-05	0.000968
3.76E-05	0.000354	2.29E-06	
88	0.000362	2.55E-05	0.002022
8.49E-05	0.000382	2.37E-06	
89	0.000362	2.75E-05	0.002694
0.000105	0.000359	2.21E-06	
90	0.000362	3.53E-05	0.003017
0.000106	0.000282	1.89E-06	
91	0.000362	4.28E-05	0.003038
9.73E-05	0.000162	1.57E-06	
92	0.000362	4.80E-05	0.003390
9.91E-05	7.96E-05	1.36E-06	
93	0.000362	5.14E-05	0.003424
0.000116	0.000111	1.08E-06	
94	0.000363	5.30E-05	0.003065
0.000122	0.000125	1.01E-06	
95	0.000363	5.32E-05	0.002305
0.000111	0.000190	2.12E-06	
96	0.000363	5.40E-05	0.001105
7.20E-05	0.000283	2.97E-06	
97	0.000363	5.47E-05	2.84E-08
2.59E-05	0.000348	2.24E-06	
98	0.000363	4.87E-05	0.001408
3.91E-05	0.000421	2.78E-06	
99	0.000363	4.00E-05	0.002443
8.48E-05	0.000445	3.18E-06	
100	0.000364	3.31E-05	0.003100
0.000105	0.000411	3.36E-06	
101	0.000364	3.92E-05	0.003406
0.000109	0.000326	3.28E-06	
102	0.000364	5.41E-05	0.003395
0.000104	0.000200	3.12E-06	
103	0.000364	6.81E-05	0.003112
9.44E-05	7.38E-05	3.08E-06	
104	0.000364	8.10E-05	0.002609
8.13E-05	0.000113	2.81E-06	
105	0.000364	9.19E-05	0.001937
6.57E-05	0.000143	2.38E-06	
106	0.000364	9.75E-05	0.001143
4.82E-05	0.000165	2.53E-06	
107	0.000363	9.91E-05	0.000270
3.01E-05	0.000178	4.84E-06	
108	0.000363	0.000101	1.89E-08
2.67E-05	0.000180	5.20E-06	
109	0.000264	8.06E-05	3.76E-08
3.73E-05	0.000230	2.15E-06	
110	0.000264	3.98E-05	0.000602
4.22E-05	0.000208	2.18E-06	
111	0.000264	1.72E-05	0.001215
5.46E-05	0.000156	2.22E-06	
112	0.000264	1.95E-05	0.001719
6.55E-05	8.45E-05	2.22E-06	
113	0.000264	2.72E-05	0.002057
7.32E-05	1.95E-05	2.07E-06	
114	0.000264	3.52E-05	0.002174
7.56E-05	1.19E-05	1.78E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000264	4.16E-05	0.002028
7.11E-05	6.45E-05	3.82E-06	
116	0.000264	4.39E-05	0.001602
5.63E-05	0.000120	5.15E-06	
117	0.000263	3.94E-05	0.000906
3.01E-05	0.000167	5.32E-06	
118	0.000263	2.68E-05	3.57E-08
1.94E-05	0.000197	4.28E-06	
119	0.000263	3.08E-05	0.000608
3.85E-05	0.000207	3.10E-06	
120	0.000262	3.71E-05	0.001341
6.63E-05	0.000205	1.65E-06	
121	0.000261	3.72E-05	0.001856
7.87E-05	0.000176	1.22E-06	
122	0.000261	3.36E-05	0.002131
7.89E-05	0.000120	1.40E-06	
123	0.000260	3.06E-05	0.002183
7.10E-05	4.60E-05	1.60E-06	
124	0.000259	3.71E-05	0.002401
7.32E-05	5.92E-05	2.80E-06	
125	0.000258	4.30E-05	0.002387
7.62E-05	8.39E-05	4.66E-06	
126	0.000257	4.61E-05	0.002092
7.11E-05	9.49E-05	6.02E-06	
127	0.000257	4.50E-05	0.001524
5.46E-05	0.000144	6.51E-06	
128	0.000256	3.70E-05	0.000699
2.60E-05	0.000190	5.87E-06	
129	0.000256	2.61E-05	3.52E-08
1.64E-05	0.000213	4.78E-06	
130	0.000257	2.88E-05	0.000680
3.26E-05	0.000225	3.44E-06	
131	0.000259	3.63E-05	0.001494
6.10E-05	0.000226	1.74E-06	
132	0.000260	3.69E-05	0.002067
7.54E-05	0.000201	9.97E-07	
133	0.000262	3.31E-05	0.002379
7.81E-05	0.000144	1.14E-06	
134	0.000264	2.70E-05	0.002408
7.24E-05	6.27E-05	1.48E-06	
135	0.000265	2.50E-05	0.002521
7.43E-05	6.38E-05	3.31E-06	
136	0.000266	2.97E-05	0.002495
7.98E-05	9.22E-05	5.18E-06	
137	0.000268	3.29E-05	0.002171
7.67E-05	0.000104	6.41E-06	
138	0.000269	3.23E-05	0.001572
6.16E-05	0.000148	6.70E-06	
139	0.000270	2.54E-05	0.000717
3.21E-05	0.000195	5.88E-06	
140	0.000271	3.00E-05	3.55E-08
1.57E-05	0.000219	4.69E-06	
141	0.000271	4.09E-05	0.000709
2.75E-05	0.000235	3.30E-06	
142	0.000272	4.84E-05	0.001558
5.68E-05	0.000240	1.58E-06	
143	0.000273	4.85E-05	0.002158
7.34E-05	0.000218	5.35E-07	
144	0.000273	4.40E-05	0.002487
7.86E-05	0.000164	6.49E-07	
145	0.000274	3.64E-05	0.002632
7.53E-05	8.11E-05	1.86E-06	
146	0.000274	2.79E-05	0.002894
7.61E-05	6.04E-05	4.01E-06	
147	0.000275	2.15E-05	0.002867
8.44E-05	9.30E-05	5.86E-06	
148	0.000275	2.23E-05	0.002500
8.34E-05	0.000107	6.90E-06	
149	0.000275	2.21E-05	0.001815
6.89E-05	0.000167	6.97E-06	
150	0.000275	2.85E-05	0.000831
3.78E-05	0.000225	6.02E-06	
151	0.000275	4.41E-05	4.07E-08
2.10E-05	0.000255	4.86E-06	
152	0.000276	5.95E-05	0.001063
3.30E-05	0.000283	2.95E-06	
153	0.000276	6.62E-05	0.001931
6.06E-05	0.000287	1.31E-06	
154	0.000277	6.56E-05	0.002532
7.71E-05	0.000257	5.19E-07	
155	0.000277	5.89E-05	0.002849
8.36E-05	0.000194	8.03E-07	
156	0.000278	4.86E-05	0.002886
8.32E-05	0.000104	2.88E-06	
157	0.000278	3.67E-05	0.002675
7.80E-05	5.84E-05	5.28E-06	
158	0.000278	2.49E-05	0.002256
6.96E-05	9.61E-05	7.58E-06	
159	0.000278	1.82E-05	0.001680
5.87E-05	0.000124	9.43E-06	
160	0.000278	2.59E-05	0.000991
4.57E-05	0.000144	1.07E-05	
161	0.000278	7.01E-05	0.000233
3.32E-05	0.000155	1.12E-05	
162	0.000278	8.59E-05	4.45E-08
3.19E-05	0.000156	1.12E-05	
163	0.000413	0.000117	6.20E-05
5.66E-05	0.000413	7.61E-05	
164	0.000413	0.000129	0.000771
6.14E-05	0.000705	5.53E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000413	0.000139	0.001573
7.57E-05	0.000582	4.75E-05	
166	0.000412	0.000144	0.002246
8.60E-05	0.000440	4.39E-05	
167	0.000412	0.000139	0.002730
9.86E-05	0.000304	4.05E-05	
168	0.000412	0.000125	0.002956
0.000110	0.000224	3.89E-05	
169	0.000413	0.000101	0.002860
0.000118	0.000253	4.11E-05	
170	0.000413	7.30E-05	0.002379
0.000120	0.000316	4.55E-05	
171	0.000413	4.47E-05	0.001444
0.000105	0.000407	5.27E-05	
172	0.000414	2.66E-05	2.49E-05
6.85E-05	0.000444	5.48E-05	
173	0.000414	3.63E-05	0.001033
0.000105	0.000560	6.35E-05	
174	0.000415	5.85E-05	0.002083
0.000129	0.000624	7.50E-05	
175	0.000415	7.90E-05	0.002699
0.000126	0.000593	7.51E-05	
176	0.000416	9.55E-05	0.002951
0.000112	0.000500	6.99E-05	
177	0.000416	0.000103	0.002880
9.36E-05	0.000376	6.06E-05	
178	0.000417	0.000102	0.003114
9.89E-05	0.000300	4.97E-05	
179	0.000417	8.99E-05	0.003192
0.000112	0.000295	4.00E-05	
180	0.000417	7.04E-05	0.002919
0.000120	0.000288	3.21E-05	
181	0.000417	4.80E-05	0.002250
0.000116	0.000336	2.65E-05	
182	0.000416	2.49E-05	0.001114
8.05E-05	0.000364	2.05E-05	
183	0.000416	3.29E-05	2.28E-05
4.00E-05	0.000438	2.26E-05	
184	0.000415	4.74E-05	0.001094
9.26E-05	0.000576	3.24E-05	
185	0.000414	7.14E-05	0.002220
0.000123	0.000651	4.20E-05	
186	0.000413	9.57E-05	0.002896
0.000124	0.000629	4.54E-05	
187	0.000413	0.000116	0.003189
0.000112	0.000536	4.67E-05	
188	0.000412	0.000127	0.003124
9.63E-05	0.000405	4.63E-05	
189	0.000412	0.000128	0.003251
9.87E-05	0.000304	4.63E-05	
190	0.000411	0.000117	0.003321
0.000115	0.000299	4.63E-05	
191	0.000411	9.79E-05	0.003017
0.000126	0.000294	4.62E-05	
192	0.000410	7.34E-05	0.002314
0.000125	0.000337	4.66E-05	
193	0.000409	4.85E-05	0.001142
9.33E-05	0.000366	4.22E-05	
194	0.000408	3.27E-05	2.42E-05
3.82E-05	0.000444	4.10E-05	
195	0.000407	2.82E-05	0.001131
8.33E-05	0.000585	4.90E-05	
196	0.000407	5.57E-05	0.002299
0.000119	0.000667	5.68E-05	
197	0.000406	8.38E-05	0.003005
0.000123	0.000652	5.47E-05	
198	0.000405	0.000110	0.003316
0.000115	0.000563	4.72E-05	
199	0.000405	0.000127	0.003262
0.000101	0.000430	4.08E-05	
200	0.000405	0.000134	0.003664
0.000100	0.000305	3.52E-05	
201	0.000405	0.000129	0.003740
0.000119	0.000302	3.21E-05	
202	0.000404	0.000115	0.003396
0.000134	0.000296	3.09E-05	
203	0.000404	9.38E-05	0.002605
0.000137	0.000356	3.12E-05	
204	0.000404	7.20E-05	0.001293
0.000112	0.000397	3.33E-05	
205	0.000404	5.75E-05	4.17E-05
7.23E-05	0.000546	4.36E-05	
206	0.000404	3.88E-05	0.001612
0.000103	0.000691	5.94E-05	
207	0.000404	5.11E-05	0.002741
0.000120	0.000736	6.35E-05	
208	0.000404	8.66E-05	0.003422
0.000122	0.000706	6.05E-05	
209	0.000403	0.000122	0.003716
0.000116	0.000609	5.09E-05	
210	0.000403	0.000150	0.003672
0.000105	0.000471	3.89E-05	
211	0.000403	0.000168	0.003346
9.37E-05	0.000322	3.48E-05	
212	0.000403	0.000175	0.002794
8.24E-05	0.000301	3.28E-05	
213	0.000403	0.000169	0.002069
7.13E-05	0.000301	3.16E-05	
214	0.000403	0.000154	0.001218
6.22E-05	0.000298	3.04E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000403	0.000136	0.000285
2.71E-05	0.000190	2.05E-05	
216	0.000403	0.000129	5.26E-05
3.36E-05	0.000192	2.51E-05	
217	0.000312	8.57E-05	7.39E-05
5.15E-05	0.000344	4.36E-05	
218	0.000312	5.62E-05	0.000667
3.50E-05	0.000292	3.24E-05	
219	0.000312	2.72E-05	0.001332
5.75E-05	0.000211	2.75E-05	
220	0.000312	1.67E-05	0.001881
7.55E-05	0.000115	2.57E-05	
221	0.000312	1.73E-05	0.002256
8.94E-05	3.28E-05	2.79E-05	
222	0.000312	2.33E-05	0.002399
9.93E-05	1.68E-05	3.10E-05	
223	0.000312	2.76E-05	0.002258
0.000104	7.44E-05	3.50E-05	
224	0.000312	3.16E-05	0.001808
9.92E-05	0.000137	4.01E-05	
225	0.000312	3.31E-05	0.001039
7.53E-05	0.000197	4.60E-05	
226	0.000312	2.85E-05	4.20E-05
4.30E-05	0.000242	4.72E-05	
227	0.000311	2.81E-05	0.000709
8.79E-05	0.000264	5.02E-05	
228	0.000311	2.74E-05	0.001536
0.000114	0.000267	5.71E-05	
229	0.000311	2.44E-05	0.002088
0.000115	0.000234	5.61E-05	
230	0.000311	2.07E-05	0.002364
0.000104	0.000164	5.12E-05	
231	0.000310	2.22E-05	0.002368
8.74E-05	7.44E-05	4.31E-05	
232	0.000310	2.63E-05	0.002610
9.04E-05	7.37E-05	3.37E-05	
233	0.000310	3.07E-05	0.002615
0.000102	9.23E-05	2.44E-05	
234	0.000309	3.43E-05	0.002318
0.000106	0.000108	1.68E-05	
235	0.000309	3.65E-05	0.001713
0.000100	0.000163	1.19E-05	
236	0.000309	3.54E-05	0.000796
6.71E-05	0.000220	1.00E-05	
237	0.000309	3.04E-05	3.76E-05
3.03E-05	0.000255	1.12E-05	
238	0.000310	2.48E-05	0.000778
7.80E-05	0.000282	1.47E-05	
239	0.000310	2.57E-05	0.001684
0.000107	0.000291	2.08E-05	
240	0.000311	2.34E-05	0.002294
0.000111	0.000314	2.57E-05	
241	0.000312	1.99E-05	0.002609
0.000103	0.000194	3.11E-05	
242	0.000312	1.65E-05	0.002617
8.87E-05	9.68E-05	3.64E-05	
243	0.000313	1.48E-05	0.002735
9.11E-05	7.76E-05	4.02E-05	
244	0.000314	1.81E-05	0.002729
0.000105	0.000105	4.25E-05	
245	0.000314	2.03E-05	0.002402
0.000113	0.000117	4.32E-05	
246	0.000315	2.28E-05	0.001765
0.000109	0.000164	4.27E-05	
247	0.000315	2.37E-05	0.000816
7.85E-05	0.000323	3.82E-05	
248	0.000316	3.27E-05	3.85E-05
2.91E-05	0.000260	3.44E-05	
249	0.000316	3.71E-05	0.000809
6.96E-05	0.000290	3.71E-05	
250	0.000316	3.73E-05	0.001752
0.000102	0.000306	3.91E-05	
251	0.000317	3.37E-05	0.002391
0.000109	0.000285	3.63E-05	
252	0.000317	2.85E-05	0.002723
0.000104	0.000218	3.20E-05	
253	0.000317	2.24E-05	0.002819
9.25E-05	0.000120	2.93E-05	
254	0.000318	1.74E-05	0.003118
9.43E-05	7.58E-05	2.77E-05	
255	0.000318	1.35E-05	0.003112
0.000113	0.000106	2.66E-05	
256	0.000318	1.16E-05	0.002739
0.000124	0.000120	2.60E-05	
257	0.000318	1.98E-05	0.002011
0.000124	0.000181	2.63E-05	
258	0.000318	3.69E-05	0.000924
9.62E-05	0.000251	2.67E-05	
259	0.000318	4.69E-05	4.76E-05
4.85E-05	0.000298	2.92E-05	
260	0.000319	5.37E-05	0.001207
7.68E-05	0.000347	3.62E-05	
261	0.000319	5.37E-05	0.002152
0.000102	0.000360	3.64E-05	
262	0.000319	5.00E-05	0.002784
0.000108	0.000331	3.37E-05	
263	0.000320	4.29E-05	0.003102
0.000107	0.000258	3.07E-05	
264	0.000320	3.39E-05	0.003122
0.000100	0.000152	2.94E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000320	2.56E-05	0.002880
9.00E-05	7.01E-05	2.96E-05	
266	0.000320	1.92E-05	0.002425
7.77E-05	0.000108	2.97E-05	
267	0.000320	2.28E-05	0.001805
6.27E-05	0.000137	2.97E-05	
268	0.000320	4.87E-05	0.001068
4.47E-05	0.000158	3.02E-05	
269	0.000320	8.26E-05	0.000256
2.20E-05	0.000167	2.06E-05	
270	0.000319	9.10E-05	5.57E-05
3.42E-05	0.000169	2.21E-05	
271	0.000406	1.02E-05	.000000
7.44E-05	0.000655	9.53E-06	.000000
272	0.000582	4.63E-05	.000000
4.87E-05	0.000381	7.08E-06	
273	.000000	.000000	.000000
3.54E-05	0.000396	6.77E-06	
274	0.000859	2.71E-06	.000000
2.70E-05	0.000406	7.53E-06	
275	0.000411	1.79E-05	.000000
5.61E-05	0.000449	8.20E-06	
276	0.000932	9.18E-06	.000000
4.63E-05	0.000203	1.36E-06	
277	0.000305	3.15E-05	.000000
4.40E-05	0.000438	2.56E-06	
278	0.000468	3.65E-05	.000000
1.97E-05	0.000287	1.38E-06	
279	.000000	.000000	.000000
9.69E-06	0.000301	1.21E-06	
280	0.000688	1.72E-06	.000000
5.42E-06	0.000309	1.82E-06	
281	0.000298	6.69E-06	.000000
1.06E-05	0.000349	2.24E-06	
282	0.000698	3.36E-05	.000000
9.43E-06	0.000181	5.20E-06	
283	0.000218	4.64E-05	.000000
6.04E-05	0.000233	2.15E-06	
284	0.000356	1.93E-05	.000000
5.02E-05	0.000192	4.28E-06	
285	1.06E-06	3.58E-05	.000000
2.11E-05	0.000213	4.78E-06	
286	0.000501	0.000118	.000000
9.38E-22	0.000215	4.69E-06	
287	0.000185	6.90E-05	.000000
2.07E-21	0.000253	4.86E-06	
288	0.000437	0.000105	.000000
1.09E-05	0.000158	1.12E-05	

COMB DB-G1-2 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	−0.000450	−7.40E−05	−3.82E−07
−0.000160	−0.000186	−2.17E−06	
2	−0.000450	−4.75E−05	−0.002918
−0.000255	−0.000177	−1.57E−06	
3	−0.000449	−5.07E−05	−0.005653
−0.000344	−0.000154	−7.84E−07	
4	−0.000449	−5.38E−05	−0.007537
−0.000392	−0.000120	−1.38E−06	
5	−0.000449	−5.53E−05	−0.008319
−0.000391	−0.000122	−3.91E−06	
6	−0.000449	−5.45E−05	−0.007946
−0.000352	−0.000127	−6.59E−06	
7	−0.000450	−4.98E−05	−0.006535
−0.000279	−0.000410	−8.62E−06	
8	−0.000451	−3.96E−05	−0.004445
−0.000183	−0.000480	−9.65E−06	
9	−0.000453	−3.38E−05	−0.002110
−8.44E−05	−0.000468	−9.79E−06	
10	−0.000455	−3.25E−05	−4.55E−07
−5.61E−05	−0.000373	−7.49E−06	
11	−0.000457	−2.71E−05	−0.001487
−0.000118	−0.000284	−6.21E−06	
12	−0.000459	−2.71E−05	−0.003930
−0.000223	−0.000173	−3.90E−06	
13	−0.000462	−3.77E−05	−0.006365
−0.000319	−0.000137	−1.97E−06	
14	−0.000465	−4.11E−05	−0.008358
−0.000388	−0.000126	−1.51E−06	
15	−0.000468	−3.89E−05	−0.009464
−0.000416	−0.000102	−2.06E−06	
16	−0.000469	−3.32E−05	−0.009474
−0.000403	−0.000232	−4.33E−06	
17	−0.000470	−2.59E−05	−0.008385
−0.000357	−0.000380	−6.53E−06	
18	−0.000470	−1.90E−05	−0.006400
−0.000274	−0.000482	−8.03E−06	
19	−0.000469	−1.72E−05	−0.003961
−0.000173	−0.000514	−8.86E−06	
20	−0.000468	−2.39E−05	−0.001504
−7.20E−05	−0.000468	−8.32E−06	
21	−0.000468	−3.19E−05	−4.55E−07
−3.68E−05	−0.000390	−6.70E−06	
22	−0.000467	−3.08E−05	−0.001533
−9.64E−05	−0.000302	−5.68E−06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	−0.000465	−3.34E−05	−0.004053
−0.000201	−0.000190	−3.69E−06	
24	−0.000463	−4.34E−05	−0.006584
−0.000302	−0.000145	−1.89E−06	
25	−0.000461	−4.62E−05	−0.008685
−0.000381	−0.000134	−1.69E−06	
26	−0.000459	−4.38E−05	−0.009856
−0.000420	−0.000104	−2.67E−06	
27	−0.000458	−4.80E−05	−0.009865
−0.000419	−0.000226	−4.35E−06	
28	−0.000456	−5.06E−05	−0.008709
−0.000379	−0.000383	−6.65E−06	
29	−0.000455	−4.72E−05	−0.006616
−0.000300	−0.000489	−8.24E−06	
30	−0.000453	−3.61E−05	−0.004083
−0.000199	−0.000522	−9.10E−06	
31	−0.000452	−3.09E−05	−0.001550
−9.34E−05	−0.000478	−8.66E−06	
32	−0.000451	−3.18E−05	−4.55E−07
−3.33E−05	−0.000402	−7.34E−06	
33	−0.000450	−2.53E−05	−0.001562
−7.64E−05	−0.000313	−6.95E−06	
34	−0.000449	−2.27E−05	−0.004120
−0.000180	−0.000200	−4.58E−06	
35	−0.000448	−2.98E−05	−0.006685
−0.000282	−0.000164	−2.74E−06	
36	−0.000447	−4.27E−05	−0.008817
−0.000367	−0.000153	−2.64E−06	
37	−0.000445	−5.51E

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	-0.000355	-3.87E-06	-0.002839
-0.000217	-0.000363	-1.52E-06	
74	-0.000354	-2.87E-06	-0.001102
-8.91E-05	-0.000339	-1.55E-06	
75	-0.000354	-5.29E-06	-2.08E-07
-3.21E-05	-0.000295	-1.20E-06	
76	-0.000354	-7.90E-06	-0.001130
-0.000105	-0.000242	-2.26E-06	
77	-0.000354	-1.17E-05	-0.002923
-0.000237	-0.000165	-1.92E-06	
78	-0.000354	-1.52E-05	-0.004693
-0.000367	-0.000127	-1.03E-06	
79	-0.000354	-1.74E-05	-0.006152
-0.000472	-0.000115	-7.19E-07	
80	-0.000354	-1.89E-05	-0.006967
-0.000529	-8.49E-05	-5.88E-07	
81	-0.000355	-2.01E-05	-0.006974
-0.000529	-0.000139	-6.14E-07	
82	-0.000355	-1.99E-05	-0.006169
-0.000472	-0.000257	-8.27E-07	
83	-0.000355	-1.80E-05	-0.004716
-0.000367	-0.000339	-1.12E-06	
84	-0.000355	-1.47E-05	-0.002944
-0.000237	-0.000368	-1.58E-06	
85	-0.000355	-1.00E-05	-0.001141
-0.000105	-0.000347	-1.81E-06	
86	-0.000355	-5.75E-06	-2.07E-07
-3.15E-05	-0.000305	-1.50E-06	
87	-0.000355	-4.16E-06	-0.001153
-9.17E-05	-0.000253	-2.77E-06	
88	-0.000355	-9.61E-06	-0.002981
-0.000222	-0.000176	-2.50E-06	
89	-0.000355	-1.74E-05	-0.004782
-0.000353	-0.000145	-1.63E-06	
90	-0.000355	-2.50E-05	-0.006272
-0.000463	-0.000133	-1.47E-06	
91	-0.000355	-3.16E-05	-0.007111
-0.000527	-0.000100	-1.22E-06	
92	-0.000356	-3.68E-05	-0.007132
-0.000535	-0.000118	-9.08E-07	
93	-0.000356	-3.97E-05	-0.006326
-0.000485	-0.000239	-6.88E-07	
94	-0.000356	-3.97E-05	-0.004854
-0.000385	-0.000327	-7.25E-07	
95	-0.000356	-3.65E-05	-0.003046
-0.000256	-0.000366	-1.23E-06	
96	-0.000356	-2.97E-05	-0.001189
-0.000124	-0.000355	-1.75E-06	
97	-0.000356	-2.31E-05	-2.17E-07
-4.95E-05	-0.000318	-1.30E-06	
98	-0.000356	-1.19E-05	-0.001909
-0.000113	-0.000250	-2.42E-06	
99	-0.000357	-6.91E-06	-0.004010
-0.000253	-0.000177	-1.74E-06	
100	-0.000357	-5.72E-06	-0.006011
-0.000393	-0.000105	-1.51E-06	
101	-0.000357	-4.77E-06	-0.007605
-0.000512	-3.82E-05	-1.60E-06	
102	-0.000357	-4.50E-06	-0.008513
-0.000590	-1.31E-05	-1.57E-06	
103	-0.000357	-4.57E-06	-0.008565
-0.000619	-9.28E-05	-1.51E-06	
104	-0.000357	-5.57E-06	-0.007709
-0.000590	-0.000229	-1.42E-06	
105	-0.000357	-9.90E-06	-0.006024
-0.000500	-0.000369	-1.25E-06	
106	-0.000356	-1.38E-05	-0.003683
-0.000351	-0.000493	-9.49E-07	
107	-0.000356	-1.56E-05	-0.000884
-0.000159	-0.000578	-3.18E-06	
108	-0.000356	-1.56E-05	-1.67E-07
-0.000115	-0.000587	-3.59E-06	
109	-0.000257	-2.31E-05	-7.30E-09
-9.75E-05	-0.000135	-9.93E-06	
110	-0.000258	-1.51E-05	-0.001045
-0.000171	-0.000278	-4.47E-06	
111	-0.000258	-2.60E-05	-0.002064
-0.000249	-0.000110	-7.91E-06	
112	-0.000259	-5.84E-05	-0.002802
-0.000296	-8.11E-05	-5.72E-06	
113	-0.000260	-7.80E-05	-0.003156
-0.000307	-4.13E-05	-3.19E-06	
114	-0.000260	-8.21E-05	-0.003078
-0.000283	-9.03E-05	-8.61E-07	
115	-0.000260	-7.14E-05	-0.002607
-0.000228	-0.000153	-1.71E-07	
116	-0.000260	-4.98E-05	-0.001847
-0.000153	-0.000190	-1.15E-06	
117	-0.000260	-2.39E-05	-0.000933
-7.23E-05	-0.000198	-2.76E-06	
118	-0.000258	-6.11E-06	-1.27E-08
-3.90E-05	-0.000185	-4.65E-06	
119	-0.000257	-1.57E-05	-0.000713
-8.34E-05	-0.000165	-5.81E-06	
120	-0.000255	-4.53E-05	-0.001778
-0.000164	-0.000124	-6.61E-06	
121	-0.000253	-7.71E-05	-0.002787
-0.000241	-0.000102	-6.29E-06	
122	-0.000250	-0.000103	-0.003595
-0.000300	-8.92E-05	-5.05E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000248	-0.000119	-0.004045
-0.000329	-6.12E-05	-3.21E-06	
124	-0.000247	-0.000120	-0.004055
-0.000324	-7.23E-05	-1.45E-06	
125	-0.000247	-0.000108	-0.003625
-0.000286	-0.000147	-1.14E-06	
126	-0.000247	-8.40E-05	-0.002827
-0.000220	-0.000200	-9.84E-07	
127	-0.000248	-5.34E-05	-0.001817
-0.000140	-0.000223	-1.74E-06	
128	-0.000248	-2.30E-05	-0.000735
-5.94E-05	-0.000220	-3.46E-06	
129	-0.000248	-6.90E-06	-1.42E-08
-2.83E-05	-0.000207	-4.82E-06	
130	-0.000249	-9.36E-06	-0.000761
-7.31E-05	-0.000186	-5.34E-06	
131	-0.000250	-3.95E-05	-0.001895
-0.000155	-0.000141	-6.61E-06	
132	-0.000252	-7.07E-05	-0.002971
-0.000235	-0.000109	-6.17E-06	
133	-0.000253	-9.52E-05	-0.003838
-0.000300	-9.65E-05	-4.83E-06	
134	-0.000254	-0.000108	-0.004319
-0.000335	-6.70E-05	-2.94E-06	
135	-0.000255	-0.000107	-0.004322
-0.000335	-6.35E-05	-1.62E-06	
136	-0.000257	-9.20E-05	-0.003849
-0.000299	-0.000145	-1.41E-06	
137	-0.000258	-6.60E-05	-0.002984
-0.000235	-0.000202	-1.20E-06	
138	-0.000259	-3.40E-05	-0.001907
-0.000154	-0.000228	-1.73E-06	
139	-0.000259	-6.93E-06	-0.000768
-7.16E-05	-0.000227	-3.23E-06	
140	-0.000257	-9.80E-06	-1.28E-08
-2.64E-05	-0.000215	-4.48E-06	
141	-0.000260	-2.51E-05	-0.000781
-6.22E-05	-0.000194	-5.50E-06	
142	-0.000261	-5.34E-05	-0.001945
-0.000145	-0.000150	-6.01E-06	
143	-0.000262	-8.12E-05	-0.003052
-0.000227	-0.000127	-5.38E-06	
144	-0.000262	-0.000101	-0.003948
-0.000294	-0.000113	-3.93E-06	
145	-0.000263	-0.000109	-0.004451
-0.000334	-8.01E-05	-2.09E-06	
146	-0.000264	-0.000103	-0.004466
-0.000339	-4.88E-05	-1.86E-06	
147	-0.000264	-8.25E-06	-0.003991
-0.000308	-0.000132	-1.75E-06	
148	-0.000265	-5.36E-05	-0.003109
-0.000246	-0.000195	-1.54E-06	
149	-0.000265	-2.44E-05	-0.002000
-0.000166	-0.000228	-1.81E-06	
150	-0.000266	-2.07E-05	-0.000811
-8.33E-05	-0.000235	-1.97E-06	
151	-0.000266	-3.01E-05	-1.88E-08
-3.80E-05	-0.000227	-4.59E-06	
152	-0.000266	-5.40E-05	-0.001313
-8.56E-05	-0.000201	-5.89E-06	
153	-0.000267	-8.32E-05	-0.002674
-0.000179	-0.000155	-5.97E-06	
154	-0.000267	-0.000109	-0.003926
-0.000271	-0.000100	-4.92E-06	
155	-0.000268	-0.000126	-0.004894
-0.000349	-4.34E-05	-3.23E-06	
156	-0.000268	-0.000128	-0.005421
-0.000400	-7.82E-06	-2.40E-06	
157	-0.000268	-0.000115	-0.005410
-0.000419	-3.88E-05	-2.59E-06	
158	-0.000268	-8.65E-05	-0.004838
-0.000401	-0.000135	-2.57E-06	
159	-0.000268	-4.59E-05	-0.003754
-0.000346	-0.000229	-2.43E-06	
160	-0.000268	-1.00E-05	-0.002273
-0.000256	-0.000305	-1.40E-06	
161	-0.000268	-1.34E-05	-0.000539
-0.000139	-0.000350	-2.06E-06	
162	-0.000268	-1.60E-05	-4.08E-09
-0.000114	-0.000354	-2.04E-06	
163	-0.000401	-3.72E-05	-0.000123
-6.96E-05	-0.000198	-3.50E-05	
164	-0.000401	-3.84E-05	-0.002435
-0.000266	-0.000338	-3.49E-05	
165	-0.000400	-3.95E-05	-0.004780
-0.000450	-0.000308	-3.48E-05	
166	-0.000400	-4.01E-05	-0.006433
-0.000540	-0.000303	-3.62E-05	
167	-0.000400	-3.97E-05	-0.007135
-0.000555	-0.000329	-4.01E-05	
168	-0.000400	-3.80E-05	-0.006830
-0.000506	-0.000465	-4.51E-05	
169	-0.000401	-3.42E-05	-0.005618
-0.000404	-0.000569	-5.05E-05	
170	-0.000401	-2.78E-05	-0.003818
-0.000266	-0.000623	-5.47E-05	
171	-0.000402	-1.88E-05	-0.001819
-0.000117	-0.000603	-5.54E-05	
172	-0.000404	-9.65E-06	-6.78E-05
-2.32E-05	-0.000481	-4.86E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	-0.000405	-9.26E-06	-0.001289
-0.000114	-0.000346	-4.42E-05	
174	-0.000407	-1.06E-05	-0.003400
-0.000273	-0.000322	-4.90E-05	
175	-0.000409	-2.48E-05	-0.005505
-0.000416	-0.000295	-4.80E-05	
176	-0.000410	-2.72E-05	-0.007247
-0.000520	-0.000301	-4.78E-05	
177	-0.000408	-2.60E-05	-0.008222
-0.000565	-0.000303	-4.75E-05	
178	-0.000412	-2.25E-05	-0.008233
-0.000555	-0.000418	-4.69E-05	
179	-0.000411	-1.77E-05	-0.007276
-0.000490	-0.000541	-4.71E-05	
180	-0.000411	-1.22E-05	-0.005543
-0.000371	-0.000628	-4.56E-05	
181	-0.000410	-7.20E-06	-0.003434
-0.000223	-0.000648	-4.20E-05	
182	-0.000409	-3.81E-06	-0.001307
-7.16E-05	-0.000570	-3.23E-05	
183	-0.000409	-8.83E-06	-6.03E-05
-1.33E-05	-0.000431	-2.25E-05	
184	-0.000408	-1.38E-06	-0.001335
-8.87E-05	-0.000357	-2.03E-05	
185	-0.000408	-2.21E-05	-0.003522
-0.000243	-0.000331	-2.60E-05	
186	-0.000407	-2.84E-05	-0.005715
-0.000391	-0.000298	-3.11E-05	
187	-0.000407	-3.05E-05	-0.007555
-0.000507	-0.000303	-3.15E-05	
188	-0.000406	-3.03E-05	-0.008587
-0.000561	-0.000307	-4.86E-05	
189	-0.000405	-3.40E-05	-0.008596
-0.000560	-0.000406	-6.00E-05	
190	-0.000405	-3.54E-05	-0.007577
-0.000505	-0.000537	-6.98E-05	
191	-0.000404	-3.31E-05	-0.005744
-0.000389	-0.000631	-7.50E-05	
192	-0.000404	-2.57E-05	-0.003549
-0.000241	-0.000654	-7.47E-05	
193	-0.000403	-1.45E-05	-0.001351
-8.68E-05	-0.000579	-6.31E-05	
194	-0.000403	-9.25E-06	-6.04E-05
-1.19E-05	-0.000442	-4.99E-05	
195	-0.000402	-4.45E-06	-0.001360
-7.32E-05	-0.000368	-4.68E-05	
196	-0.000402	-1.33E-05	-0.003583
-0.000227	-0.000340	-4.51E-05	
197	-0.000401	-2.33E-05	-0.005810
-0.000379	-0.000312	-4.22E-05	
198	-0.000401	-3.38E-05	-0.007681
-0.000501	-0.000315	-3.72E-05	
199	-0.000400	-4.36E-05	-0.008739
-0.000567	-0.000315	-3.65E-05	
200	-0.000400	-5.16E-05	-0.008761
-0.000576	-0.000384	-3.85E-05	
201	-0.000400	-5.67E-05	-0.007741
-0.000529	-0.000518	-4.20E-05	
202	-0.000399	-5.73E-05	-0.005889
-0.000420	-0.000619	-4.88E-05	
203	-0.000399	-5.17E-05	-0.003658
-0.000273	-0.000651	-5.20E-05	
204	-0.000399	-3.80E-05	-0.001407
-0.000114	-0.000588	-5.42E-05	
205	-0.000399	-2.27E-05	-7.65E-05
-2.15E-05	-0.000474	-3.67E-05	
206	-0.000398	-9.01E-06	-0.002227
-0.000117	-0.000438	-3.95E-05	
207	-0.000398	-6.26E-06	-0.004764
-0.000275	-0.000344	-3.70E-05	
208	-0.000398	-5.16E-06	-0.007211
-0.000430	-0.000273	-3.58E-05	
209	-0.000398	-4.87E-06	-0.009203
-0.000559	-0.000223	-3.54E-05	
210	-0.000398	-7.27E-06	-0.010355
-0.000643	-0.000235	-3.73E-05	
211	-0.000397	-1.09E-05	-0.010445
-0.000678	-0.000351	-4.12E-05	
212	-0.000397	-1.41E-05	-0.009407
-0.000656	-0.000504	-4.64E-05	
213	-0.000397	-1.68E-05	-0.007338
-0.000567	-0.000666	-5.15E-05	
214	-0.000397	-1.95E-05	-0.004477
-0.000399	-0.000802	-6.47E-05	
215	-0.000397	-2.24E-05	-0.001048
-0.000131	-0.000795	-4.74E-05	
216	-0.000397	-2.27E-05	-9.38E-05
-3.44E-05	-0.000726	-5.32E-05	
217	-0.000397	-2.50E-05	-3.98E-05
-7.68E-06	-0.000150	-3.21E-05	
218	-0.000304	-2.34E-05	-0.001453
-0.000184	-0.000145	-2.66E-05	
219	-0.000304	-1.77E-05	-0.002806
-0.000344	-0.000124	-2.83E-05	
220	-0.000305	-1.39E-05	-0.003760
-0.000429	-9.38E-05	-2.92E-05	
221	-0.000305	-2.62E-05	-0.004193
-0.000448	-5.29E-05	-3.06E-05	
222	-0.000305	-3.15E-05	-0.004059
-0.000410	-0.000139	-3.24E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	-0.000306	-2.93E-05	-0.003409
-0.000324	-0.000315	-1.97E-05	
224	-0.000306	-1.96E-05	-0.002386
-0.000208	-0.000257	-3.74E-05	
225	-0.000306	-9.03E-06	-0.001187
-7.96E-05	-0.000259	-3.98E-05	
226	-0.000305	-6.72E-06	-1.92E-05
-2.21E-06	-0.000225	-3.82E-05	
227	-0.000305	-7.36E-06	-0.000886
-7.83E-05	-0.000189	-3.94E-05	
228	-0.000304	-1.92E-05	-0.002230
-0.000208	-0.000137	-4.41E-05	
229	-0.000303	-3.61E-05	-0.003526
-0.000331	-0.000115	-4.44E-05	
230	-0.000302	-5.18E-05	-0.004567
-0.000424	-0.000105	-4.56E-05	
231	-0.000301	-6.14E-05	-0.005143
-0.000468	-7.42E-05	-4.12E-05	
232	-0.000300	-6.33E-05	-0.005153
-0.000462	-0.000110	-3.74E-05	
233	-0.000300	-5.74E-05	-0.004597
-0.000407	-0.000201	-3.21E-05	
234	-0.000300	-4.43E-05	-0.003566
-0.000307	-0.000264	-2.65E-05	
235	-0.000301	-2.69E-05	-0.002268
-0.000181	-0.000288	-2.11E-05	
236	-0.000301	-1.12E-05	-0.000908
-5.36E-05	-0.000275	-1.47E-05	
237	-0.000302	-4.94E-06	-1.94E-05
-5.22E-06	-0.000247	-1.10E-05	
238	-0.000302	-5.39E-06	-0.000936
-6.73E-05	-0.000212	-1.01E-05	
239	-0.000303	-1.35E-05	-0.002351
-0.000197	-0.000156	-1.18E-05	
240	-0.000303	-2.86E-05	-0.003719
-0.000325	-0.000122	-1.57E-05	
241	-0.000303	-4.16E-05	-0.004829
-0.000425	-0.000110	-2.33E-05	
242	-0.000304	-4.84E-05	-0.005442
-0.000476	-8.09E-05	-3.31E-05	
243	-0.000304	-4.76E-05	-0.005447
-0.000476	-9.78E-05	-4.29E-05	
244	-0.000305	-3.96E-05	-0.004842
-0.000425	-0.000195	-5.16E-05	
245	-0.000305	-2.58E-05	-0.003736
-0.000325	-0.000265	-5.67E-05	
246	-0.000306	-1.12E-05	-0.002366
-0.000197	-0.000293	-5.77E-05	
247	-0.000306	-7.56E-06	-0.000943
-6.68E-05	-0.000284	-5.09E-05	
248	-0.000307	-6.97E-06	-2.01E-05
-5.26E-06	-0.000258	-4.42E-05	
249	-0.000307	-1.12E-05	-0.000958
-5.64E-05	-0.000224	-4.44E-05	
250	-0.000307	-2.45E-05	-0.002404
-0.000186	-0.000168	-4.18E-05	
251	-0.000308	-3.88E-05	-0.003805
-0.000315	-0.000140	-3.63E-05	
252	-0.000308	-4.85E-05	-0.004944
-0.000418	-0.000127	-3.16E-05	
253	-0.000309	-5.06E-05	-0.005580
-0.000474	-9.47E-05	-2.77E-05	
254	-0.000309	-4.72E-05	-0.005597
-0.000480	-7.92E-05	-2.50E-05	
255	-0.000309	-3.70E-05	-0.004990
-0.000435	-0.000178	-2.52E-05	
256	-0.000310	-2.42E-05	-0.003865
-0.000339	-0.000256	-2.92E-05	
257	-0.000310	-2.30E-05	-0.002460
-0.000312	-0.000293	-3.22E-05	
258	-0.000310	-2.26E-05	-0.000984
-7.93E-05	-0.000294	-2.82E-05	
259	-0.000310	-2.44E-05	-3.56E-05
-4.10E-06	-0.000274	-2.55E-05	
260	-0.000311	-3.34E-05	-0.001605
-8.31E-05	-0.000231	-2.57E-05	
261	-0.000311	-4.68E-05	-0.003284
-0.000223	-0.000173	-2.61E-05	
262	-0.000311	-5.82E-05	-0.004854
-0.000358	-0.000110	-2.71E-05	
263	-0.000312	-6.15E-05	-0.006084
-0.000470	-4.90E-05	-2.82E-05	
264	-0.000312	-5.53E-05	-0.006765
-0.000543	-1.48E-05	-2.82E-05	
265	-0.000312	-4.07E-05	-0.006780
-0.000570	-6.19E-05	-3.02E-05	
266	-0.000312	-1.98E-05	-0.006096
-0.000545	-0.000173	-3.21E-05	
267	-0.000312	-7.61E-06	-0.004765
-0.000460	-0.000290	-3.42E-05	
268	-0.000311	-9.38E-06	-0.002923
-0.000309	-0.000389	-5.01E-05	
269	-0.000311	-1.50E-05	-0.000736
-7.94E-05	-0.000461	-3.51E-05	
270	-0.000311	-1.58E-05	-4.64E-05
-6.55E-06	-0.000476	-4.42E-05	
271	-0.000638	-6.50E-06	.000000
-0.000153	-0.000185	-2.17E-06	
272	-0.000832	-3.24E-05	.000000
-5.70E-05	-0.000369	-7.49E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
-3.82E-05	-0.000389	-6.70E-06	
274	-0.000608	-3.07E-06	.000000
-3.60E-05	0.000402	-7.34E-06	.000000
275	-0.000512	-1.44E-05	.000000
-7.90E-05	-0.000411	-7.02E-06	
276	-0.000455	-4.48E-06	.000000
-0.000158	-0.000832	-8.80E-06	
277	-0.000404	-2.38E-05	.000000
-0.000100	-0.000155	-3.68E-06	
278	-0.000656	-2.60E-05	.000000
-4.99E-05	-0.000272	-1.89E-06	
279	.000000	.000000	.000000
-3.51E-05	-0.000294	-1.20E-06	
280	-0.000482	-2.46E-06	.000000
-3.33E-05	-0.000305	-1.50E-06	
281	-0.000375	-8.40E-06	.000000
-3.74E-05	-0.000320	-1.30E-06	
282	-0.000373	-1.80E-05	.000000
-6.48E-05	-0.000594	-3.59E-06	
283	-0.000184	-5.75E-06	.000000
-8.28E-05	-0.000126	-9.93E-06	
284	-0.000479	-6.60E-21	.000000
-6.77E-05	-0.000170	-4.65E-06	
285	-7.77E-07	-2.63E-05	.000000
-2.82E-05	-0.000206	-4.82E-06	
286	-0.000349	-0.000110	.000000
-1.70E-05	-0.000218	-4.48E-06	
287	-0.000257	-8.73E-05	.000000
-1.47E-05	-0.000230	-4.59E-06	
288	-0.000280	-5.19E-05	.000000
-5.16E-05	-0.000367	-2.04E-06	

COMB DB-G1-3 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000572	0.000155	3.78E-08
6.14E-05	0.000770	7.04E-06	
2	0.000571	0.000163	0.001078
0.000112	0.000704	6.05E-06	
3	0.000570	0.000177	0.002178
0.000154	0.000542	5.05E-06	
4	0.000570	0.000189	0.003101
0.000178	0.000340	3.44E-06	
5	0.000571	0.000189	0.003763
0.000192	0.000137	1.75E-06	
6	0.000571	0.000174	0.004073
0.000199	5.54E-06	6.09E-07	
7	0.000572	0.000146	0.003937
0.000191	8.34E-05	1.72E-06	
8	0.000572	0.000109	0.003271
0.000157	0.000198	3.36E-06	
9	0.000573	7.20E-05	0.001978
9.29E-05	0.000328	5.22E-06	
10	0.000574	4.16E-05	5.13E-08
4.79E-05	0.000466	6.45E-06	
11	0.000575	5.61E-05	0.001408
6.43E-05	0.000549	7.52E-06	
12	0.000576	8.17E-05	0.002859
0.000128	0.000592	7.78E-06	
13	0.000577	0.000110	0.003712
0.000146	0.000545	7.25E-06	
14	0.000578	0.000134	0.004061
0.000183	0.000415	6.04E-06	
15	0.000579	0.000148	0.003963
0.000186	0.000233	4.09E-06	
16	0.000581	0.000147	0.004283
0.000195	0.000118	2.16E-06	
17	0.000584	0.000131	0.004390
0.000197	0.000154	1.87E-06	
18	0.000582	0.000104	0.004012
0.000180	0.000167	2.11E-06	
19	0.000583	6.99E-05	0.003088
0.000138	0.000248	3.76E-06	
20	0.000583	3.73E-05	0.001518
6.66E-05	0.000385	5.55E-06	
21	0.000583	4.09E-05	5.31E-08
3.49E-05	0.000486	6.17E-06	
22	0.000581	6.22E-05	0.001492
6.44E-05	0.000571	7.33E-06	
23	0.000579	9.60E-05	0.003046
0.000133	0.000621	7.81E-06	
24	0.000577	0.000130	0.003979
0.000174	0.000581	7.45E-06	
25	0.000575	0.000159	0.004384
0.000191	0.000450	6.31E-06	
26	0.000573	0.000176	0.004295
0.000192	0.000257	4.32E-06	
27	0.000572	0.000177	0.004470
0.000194	0.000126	2.13E-06	
28	0.000570	0.000162	0.004566
0.000194	0.000165	1.75E-06	
29	0.000568	0.000134	0.004146
0.000176	0.000180	2.18E-06	
30	0.000567	9.91E-05	0.003174
0.000134	0.000256	3.96E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	0.000565	6.34E-05	0.001555
6.46E-05	0.000394	5.95E-06	
32	0.000564	3.98E-05	5.89E-08
3.30E-05	0.000497	7.02E-06	
33	0.000563	4.16E-05	0.001544
6.76E-05	0.000584	8.35E-06	
34	0.000562	7.83E-05	0.003157
0.000139	0.000637	8.98E-06	
35	0.000561	0.000117	0.004132
0.000183	0.000598	8.62E-06	
36	0.000560	0.000151	0.004562
0.000200	0.000469	7.50E-06	
37	0.000559	0.000172	0.004502
0.000198	0.000273	5.46E-06	
38	0.000558	0.000178	0.005028
0.000191	0.000131	3.06E-06	
39	0.000557	0.000170	0.005129
0.000188	0.000168	1.32E-06	
40	0.000557	0.000150	0.004652
0.000171	0.000185	1.44E-06	
41	0.000557	0.000122	0.003557
0.000131	0.000285	3.35E-06	
42	0.000557	9.22E-05	0.001741
6.39E-05	0.000440	5.69E-06	
43	0.000556	7.17E-05	4.98E-08
4.98E-05	0.000556	7.74E-06	
44	0.000554	4.31E-05	0.002218
9.54E-05	0.000684	1.10E-05	
45	0.000555	8.32E-05	0.003773
0.000161	0.000721	1.16E-05	
46	0.000555	0.000128	0.004711
0.000196	0.000660	1.10E-05	
47	0.000554	0.000172	0.005115
0.000204	0.000512	9.80E-06	
48	0.000554	0.000206	0.005054
0.000204	0.000308	7.68E-06	
49	0.000554	0.000225	0.004606
0.000193	0.000152	4.99E-06	
50	0.000553	0.000228	0.003847
0.000175	0.000172	2.33E-06	
51	0.000553	0.000217	0.002849
0.000151	0.000213	9.58E-07	
52	0.000552	0.000198	0.001680
0.000115	0.000243	8.23E-07	
53	0.000552	0.000182	0.000396
5.54E-05	0.000261	1.25E-06	
54	0.000552	0.000172	3.10E

68	0.000495	2.93E-05	0.003577
9.41E-05	0.000329	1.56E-06	
69	0.000496	3.19E-05	0.003531
8.13E-05	0.000179	1.10E-06	
70	0.000496	3.05E-05	0.003855
8.34E-05	0.000103	8.96E-07	
71	0.000496	2.51E-05	0.003911
8.95E-05	0.000137	1.06E-06	
72	0.000496	1.92E-05	0.003529
8.81E-05	0.000151	1.25E-06	
73	0.000496	1.89E-05	0.002677
7.55E-05	0.000226	1.72E-06	
74	0.000496	2.28E-05	0.001296
3.88E-05	0.000335	2.28E-06	
75	0.000495	2.67E-05	4.48E-08
1.21E-05	0.000413	1.91E-06	
76	0.000495	2.92E-05	0.001271
4.85E-05	0.000477	2.30E-06	
77	0.000495	3.46E-05	0.002636
8.23E-05	0.000512	2.45E-06	
78	0.000495	4.42E-05	0.003497
9.40E-05	0.000476	2.26E-06	
79	0.000495	5.20E-05	0.003904
9.15E-05	0.000367	1.81E-06	
80	0.000495	5.63E-05	0.003866
8.06E-05	0.000305	1.23E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
81	0.000495	5.68E-05	0.004031
8.31E-05	0.000110	7.86E-07	
82	0.000495	5.40E-05	0.004075
9.38E-05	0.000149	9.49E-07	
83	0.000495	4.72E-05	0.003652
9.58E-05	0.000164	1.24E-06	
84	0.000494	3.75E-05	0.002754
8.32E-05	0.000232	1.63E-06	
85	0.000494	3.10E-05	0.001328
4.79E-05	0.000342	2.54E-06	
86	0.000494	2.73E-05	5.01E-08
1.03E-05	0.000422	2.63E-06	
87	0.000494	2.24E-05	0.001317
3.88E-05	0.000490	3.17E-06	
88	0.000494	1.83E-05	0.002736
7.60E-05	0.000530	3.51E-06	
89	0.000494	3.03E-05	0.003636
8.96E-05	0.000498	3.43E-06	
90	0.000494	4.56E-05	0.004067
9.19E-05	0.000492	2.99E-06	
91	0.000494	5.74E-05	0.004092
8.51E-05	0.000228	2.39E-06	
92	0.000494	6.46E-05	0.004565
8.77E-05	0.000109	1.83E-06	
93	0.000494	6.74E-05	0.004612
0.000103	0.000494	1.16E-06	
94	0.000494	6.59E-05	0.004131
0.000111	0.000169	8.76E-07	
95	0.000494	5.97E-05	0.003113
0.000105	0.000258	1.90E-06	
96	0.000494	5.24E-05	0.001499
7.64E-05	0.000384	3.22E-06	
97	0.000494	4.83E-05	3.80E-08
4.09E-05	0.000474	3.05E-06	
98	0.000494	4.16E-05	0.001910
5.51E-05	0.000575	3.59E-06	
99	0.000494	3.42E-05	0.003300
8.97E-05	0.000605	4.41E-06	
100	0.000495	3.00E-05	0.004180
0.000100	0.000556	4.79E-06	
101	0.000495	4.65E-05	0.004590
9.53E-05	0.000435	4.64E-06	
102	0.000495	6.77E-05	0.004574
9.27E-05	0.000262	4.21E-06	
103	0.000495	8.54E-05	0.004193
8.67E-05	0.000102	3.75E-06	
104	0.000495	9.93E-05	0.003515
7.75E-05	0.000155	3.00E-06	
105	0.000495	0.000108	0.002609
6.58E-05	0.000195	2.17E-06	
106	0.000495	0.000110	0.001540
5.21E-05	0.000224	1.77E-06	
107	0.000494	0.000103	0.000363
3.73E-05	0.000241	3.24E-06	
108	0.000494	0.000101	2.48E-08
3.46E-05	0.000242	3.47E-06	
109	0.000400	7.00E-05	3.97E-08
3.97E-05	0.000398	1.81E-06	
110	0.000401	3.89E-05	0.000862
4.60E-05	0.000362	1.89E-06	
111	0.000401	2.35E-05	0.001742
5.62E-05	0.000275	1.86E-06	
112	0.000401	2.81E-05	0.002469
6.39E-05	0.000157	1.96E-06	
113	0.000401	3.54E-05	0.002967
6.83E-05	4.41E-05	2.00E-06	
114	0.000401	4.11E-05	0.003158
6.95E-05	1.15E-05	1.68E-06	
115	0.000401	4.57E-05	0.002976
6.46E-05	8.32E-05	3.43E-06	
116	0.000400	4.51E-05	0.002385
4.95E-05	0.000167	4.61E-06	
117	0.000401	3.81E-05	0.001374
2.39E-05	0.000245	4.69E-06	
118	0.000400	2.42E-05	4.38E-08
1.57E-05	0.000305	3.73E-06	
119	0.000400	2.67E-05	0.000938
3.33E-05	0.000333	2.83E-06	
120	0.000400	3.18E-05	0.002022
6.40E-05	0.000339	1.57E-06	
121	0.000399	3.14E-05	0.002747
7.50E-05	0.000299	1.17E-06	
122	0.000398	2.77E-05	0.003112
7.33E-05	0.000212	1.48E-06	
123	0.000398	2.54E-05	0.003142
6.55E-05	9.45E-05	1.77E-06	
124	0.000397	3.16E-05	0.003444
6.74E-05	8.70E-05	2.71E-06	
125	0.000396	3.63E-05	0.003453
7.01E-05	0.000121	4.32E-06	
126	0.000395	3.76E-05	0.003062
6.56E-05	0.000136	5.45E-06	
127	0.000394	3.44E-05	0.002265
4.92E-05	0.000295	5.80E-06	
128	0.000394	2.60E-05	0.001058
1.88E-05	0.000283	5.23E-06	
129	0.000394	1.64E-05	4.39E-08
1.07E-05	0.000327	4.35E-06	
130	0.000395	2.05E-05	0.001033
2.60E-05	0.000357	3.25E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
131	0.000397	2.99E-05	0.002224
5.73E-05	0.000368	1.76E-06	
132	0.000398	3.29E-05	0.003029
7.09E-05	0.000333	1.08E-06	
133	0.000400	3.18E-05	0.003444
7.22E-05	0.000244	1.28E-06	
134	0.000401	2.83E-05	0.003454
6.61E-05	0.000116	1.67E-06	
135	0.000403	2.74E-05	0.003610
6.80E-05	9.44E-05	3.18E-06	
136	0.000404	3.11E-05	0.003604
7.38E-05	0.000133	4.68E-06	
137	0.000405	3.22E-05	0.003174
7.21E-05	0.000149	5.72E-06	
138	0.000407	2.86E-05	0.002334
5.77E-05	0.000212	5.93E-06	
139	0.000408	1.86E-05	0.001086
2.54E-05	0.000291	5.24E-06	
140	0.000408	2.05E-05	4.64E-08
9.67E-06	0.000337	4.32E-06	
141	0.000409	2.99E-05	0.001074
2.02E-05	0.000370	3.20E-06	
142	0.000410	3.72E-05	0.002315
5.15E-05	0.000386	1.62E-06	
143	0.000410	3.92E-05	0.003157
6.79E-05	0.000354	1.05E-06	
144	0.000411	3.69E-05	0.003595
7.23E-05	0.000268	1.18E-06	
145	0.000411	3.14E-05	0.003724
6.93E-05	0.000138	2.33E-06	
146	0.000411	2.43E-05	0.004119
6.98E-05	9.40E-05	4.15E-06	
147	0.000411	1.77E-05	0.004113
7.83E-05	0.000135	5.59E-06	
148	0.000412	2.04E-05	0.003625
7.93E-05	0.000154	6.29E-06	
149	0.000412	2.10E-05	0.002669
6.64E-05	0.000239	6.16E-06	
150	0.000412	2.62E-05	0.001244
3.33E-05	0.000333	5.44E-06	
151	0.000412	3.95E-05	4.76E-08
1.76E-05	0.000388	4.58E-06	
152	0.000413	5.25E-05	0.001591
2.70E-05	0.000442	3.07E-06	
153	0.000413	5.76E-05	0.002838
5.29E-05	0.000452	1.64E-06	
154	0.000414	6.62E-05	0.003672
6.92E-05	0.000406	9.81E-07	
155	0.000414	4.96E-05	0.004090
7.56E-05	0.000306	1.66E-06	
156	0.000415	4.02E-05	0.004115
7.64E-05	0.000167	3.61E-06	
157	0.000415	3.08E-05	0.003795
7.42E-05	8.91E-05	5.71E-06	
158	0.000415	2.44E-05	0.003192
6.90E-05	0.000140	7.56E-06	
159	0.000415	2.34E-05	0.002373
6.09E-05	0.000178	8.93E-06	
160	0.000415	3.29E-05	0.001399
5.03E-05	0.000205	9.81E-06	
161	0.000415	7.27E-05	0.000329
3.83E-05	0.000219	1.01E-05	
162	0.000415	8.66E-05	4.34E-08
3.64E-05	0.000220	1.01E-05	
163	0.000533	0.000111	5.71E-05
5.60E-05	0.000928	9.10E-05	
164	0.000533	0.000120	0.001015
9.60E-05	0.000785	6.74E-05	
165	0.000533	0.000131	0.002065
0.000161	0.000638	5.69E-05	
166	0.000532	0.000137	0.002944
0.000188	0.000457	4.82E-05	
167	0.000532	0.000132	0.003570
0.000206	0.000275	4.11E-05	
168	0.000532	0.000117	0.003856
0.000218	0.000161	4.03E-05	
169	0.000532	9.71E-05	0.003715
0.000218	0.000212	4.13E-05	
170	0.000533	7.31E-05	0.003075
0.000197	0.000205	4.44E-05	
171	0.000533	4.78E-05	0.001854
0.000137	0.000423	5.46E-05	
172	0.000534	2.98E-05	2.22E-05
5.79E-05	0.000507	5.99E-05	
173	0.000534	3.68E-05	0.001317
0.000107	0.000621	6.91E-05	
174	0.000535	5.22E-05	0.002681
0.000177	0.000684	8.09E-05	
175	0.000535	6.84E-05	0.003495
0.000203	0.000645	7.91E-05	
176	0.000536	8.62E-05	0.003840
0.000208	0.000525	7.01E-05	
177	0.000537	9.47E-05	0.003762
0.000201	0.000362	5.52E-05	
178	0.000537	9.26E-05	0.004083
0.000209	0.000256	4.83E-05	
179	0.000538	8.00E-05	0.004171
0.000218	0.000270	4.24E-05	
180	0.000538	5.96E-05	0.003797
0.000211	0.000273	3.82E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	0.000538	3.96E-05	0.002911
0.000178	0.000343	3.63E-05	
182	0.000537	1.91E-05	0.001429
9.76E-05	0.000419	3.39E-05	
183	0.000537	2.76E-05	2.03E-05
3.32E-05	0.000513	3.68E-05	
184	0.000536	4.11E-05	0.001402
0.000102	0.000642	4.80E-05	
185	0.000535	6.61E-05	0.002870
0.000177	0.000714	5.81E-05	
186	0.000534	9.20E-05	0.003765
0.000207	0.000682	5.91E-05	
187	0.000533	0.000113	0.004165
0.000215	0.000561	5.57E-05	
188	0.000533	0.000125	0.004095
0.000207	0.000388	4.90E-05	
189	0.000532	0.000126	0.004265
0.000209	0.000263	4.27E-05	
190	0.000532	0.000115	0.004341
0.000218	0.000279	4.29E-05	
191	0.000531	0.000113	0.003926
0.000211	0.000283	4.44E-05	
192	0.000530	6.84E-05	0.002993
0.000180	0.000347	4.90E-05	
193	0.000529	4.33E-05	0.001464
0.000103	0.000426	4.86E-05	
194	0.000529	2.77E-05	2.16E-05
3.13E-05	0.000522	4.87E-05	
195	0.000528	2.20E-05	0.001451
0.000100	0.000654	5.79E-05	
196	0.000527	4.57E-05	0.002974
0.000181	0.000730	6.68E-05	
197	0.000527	7.63E-05	0.003910
0.000214	0.000693	6.34E-05	
198	0.000526	0.000104	0.004335
0.000222	0.000584	5.28E-05	
199	0.000526	0.000124	0.004296
0.000212	0.000408	4.14E-05	
200	0.000526	0.000133	0.004814
0.000208	0.000264	3.72E-05	
201	0.000525	0.000129	0.004896
0.000216	0.000283	3.54E-05	
202	0.000525	0.000115	0.004426
0.000211	0.000288	3.46E-05	
203	0.000525	9.41E-05	0.003376
0.000184	0.000374	3.60E-05	
204	0.000525	7.14E-05	0.001659
0.000113	0.000468	4.16E-05	
205	0.000525	5.66E-05	4.00E-05
6.39E-05	0.000618	5.29E-05	
206	0.000525	3.70E-05	0.002079
0.000137	0.000769	7.05E-05	
207	0.000525	4.46E-05	0.003559
0.000199	0.000811	7.44E-05	
208	0.000525	7.53E-05	0.004467
0.000223	0.000761	6.94E-05	
209	0.000524	0.000114	0.004870
0.000226	0.000628	5.62E-05	
210	0.000524	0.000145	0.004826
0.000215	0.000444	3.92E-05	
211	0.000524	0.000166	0.004407
0.000200	0.000278	3.41E-05	
212	0.000524	0.000175	0.003685
0.000183	0.000285	3.34E-05	
213	0.000524	0.000170	0.002731
0.000162	0.000305	3.42E-05	
214	0.000524	0.000156	0.001610
0.000124	0.000317	3.47E-05	
215	0.000524	0.000139	0.000378
3.39E-05	0.000251	2.38E-05	
216	0.000524	0.000132	4.83E-05
3.81E-05	0.000253	2.91E-05	
217	0.000449	7.69E-05	4.18E-05
5.04E-05	0.000520	6.51E-05	
218	0.000446	5.50E-05	0.000921
3.93E-05	0.000456	4.88E-05	
219	0.000446	3.44E-05	0.001847
5.77E-05	0.000341	4.09E-05	
220	0.000446	2.81E-05	0.002614
7.13E-05	0.000189	3.57E-05	
221	0.000446	2.84E-05	0.003145
8.06E-05	6.71E-05	2.89E-05	
222	0.000446	3.18E-05	0.003357
8.71E-05	1.13E-05	3.24E-05	
223	0.000446	3.48E-05	0.003179
9.30E-05	6.71E-05	3.69E-05	
224	0.000446	3.59E-05	0.002568
9.49E-05	0.000179	4.26E-05	
225	0.000446	3.36E-05	0.001490
8.01E-05	0.000270	5.06E-05	
226	0.000446	2.59E-05	2.17E-05
5.96E-05	0.000352	5.51E-05	
227	0.000446	2.50E-05	0.001023
0.000103	0.000394	6.01E-05	
228	0.000446	2.43E-05	0.002195
0.000118	0.000407	6.90E-05	
229	0.000446	2.09E-05	0.002952
0.000108	0.000365	6.69E-05	
230	0.000446	2.18E-05	0.003318
9.29E-05	0.000265	5.93E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	0.000446	2.52E-05	0.003304
7.85E-05	0.000133	4.85E-05	
232	0.000446	2.82E-05	0.003631
7.94E-05	9.41E-05	3.77E-05	
233	0.000445	2.88E-05	0.003656
8.96E-05	0.000128	2.69E-05	
234	0.000445	2.83E-05	0.003263
9.78E-05	0.000143	1.92E-05	
235	0.000445	2.78E-05	0.002434
0.000100	0.000218	1.57E-05	
236	0.000445	2.50E-05	0.001141
7.53E-05	0.000310	1.82E-05	
237	0.000445	2.14E-05	1.87E-05
4.12E-05	0.000370	2.11E-05	
238	0.000445	1.92E-05	0.001116
8.98E-05	0.000416	2.74E-05	
239	0.000446	2.58E-05	0.002394
0.000109	0.000437	3.55E-05	
240	0.000446	3.00E-05	0.003231
0.000103	0.000402	3.88E-05	
241	0.000447	3.22E-05	0.003648
9.14E-05	0.000302	3.91E-05	
242	0.000448	3.21E-05	0.003641
7.73E-05	0.000159	3.87E-05	
243	0.000448	3.07E-05	0.003801
7.95E-05	0.000101	4.34E-05	
244	0.000449	3.09E-05	0.003813
9.36E-05	0.000140	4.63E-05	
245	0.000449	2.80E-05	0.003379
0.000105	0.000156	4.72E-05	
246	0.000450	2.40E-05	0.002506
0.000111	0.000222	4.66E-05	
247	0.000450	1.88E-05	0.001170
9.02E-05	0.000315	4.46E-05	
248	0.000450	2.37E-05	1.96E-05
3.94E-05	0.000377	4.36E-05	
249	0.000451	2.66E-05	0.001160
7.84E-05	0.000427	4.93E-05	
250	0.000451	2.81E-05	0.002488
0.000103	0.000455	5.35E-05	
251	0.000451	3.25E-05	0.003364
0.000101	0.000426	4.98E-05	
252	0.000451	3.57E-05	0.003805
9.20E-05	0.000329	4.22E-05	
253	0.000451	3.66E-05	0.003893
8.12E-05	0.000184	3.31E-05	
254	0.000452	3.50E-05	0.004320
8.41E-05	0.000100	2.82E-05	
255	0.000452	3.12E-05	0.004331
0.000100	0.000142	2.70E-05	
256	0.000452	2.61E-05	0.003837
0.000117	0.000161	2.81E-05	
257	0.000452	2.84E-05	0.002843
0.000127	0.000147	3.29E-05	
258	0.000452	3.80E-05	0.001320
0.000111	0.000355	3.67E-05	
259	0.000452	4.35E-05	2.85E-05
6.48E-05	0.000426	4.18E-05	
260	0.000453	4.78E-05	0.001718
8.14E-05	0.000504	5.29E-05	
261	0.000453	4.71E-05	0.003036
9.67E-05	0.000525	5.36E-05	
262	0.000453	4.29E-05	0.003896
9.64E-05	0.000481	4.90E-05	
263	0.000454	4.45E-05	0.004317
9.25E-05	0.000372	4.19E-05	
264	0.000454	4.58E-05	0.004327
8.86E-05	0.000419	5.41E-05	
265	0.000454	4.54E-05	0.003982
8.30E-05	9.40E-05	2.99E-05	
266	0.000454	4.26E-05	0.003346
7.47E-05	0.000147	3.17E-05	
267	0.000454	4.55E-05	0.002487
6.35E-05	0.000186	3.34E-05	
268	0.000453	6.53E-05	0.001470
4.91E-05	0.000214	3.52E-05	
269	0.000453	8.96E-05	0.000349
2.98E-05	0.000231	2.44E-05	
270	0.000453	9.42E-05	3.07E-05
3.81E-05	0.000233	2.97E-05	
271	0.000771	1.18E-05	.000000
7.50E-05	0.000771	7.04E-06	.000000
272	0.000726	5.75E-05	.000000
6.17E-05	0.000465	6.45E-06	.000000
273	.000000	.000000	.000000
4.29E-05	0.000485	6.17E-06	.000000
274	0.001070	2.70E-06	.000000
3.56E-05	0.000497	7.02E-06	.000000
275	0.000497	2.17E-05	.000000
7.83E-05	0.000552	7.74E-06	.000000
276	0.001130	1.11E-05	.000000
4.37E-05	0.000263	1.36E-06	.000000
277	0.000417	4.50E-05	.000000
5.95E-05	0.000619	2.80E-06	.000000
278	0.000693	4.97E-05	.000000
3.30E-05	0.000393	2.12E-06	.000000
279	.000000	.000000	.000000
1.66E-05	0.000413	1.91E-06	.000000
280	0.000936	2.35E-06	.000000
1.30E-05	0.000422	2.63E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.000412	9.24E-06	.000000
1.99E-05	0.000476	3.05E-06	.000000
282	0.000959	4.62E-05	.000000
1.11E-05	0.000244	3.47E-06	.000000
283	0.000330	8.76E-06	.000000
7.45E-05	0.000404	1.81E-06	.000000
284	0.000527	1.69E-05	.000000
6.45E-05	0.000300	3.73E-06	
285	5.13E-07	1.73E-05	.000000
1.77E-05	0.000328	4.35E-06	
286	0.000757	0.000155	.000000
2.41E-21	0.000330	4.32E-06	
287	0.000301	6.93E-05	.000000
-6.29E-23	0.000384	4.58E-06	
288	0.000701	0.000113	.000000
1.20E-06	0.000223	1.01E-05	

COMB DB-G1-3 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000557	-7.20E-05	-3.58E-07
-0.000148	-0.000240	-2.07E-06	
2	-0.000556	-5.58E-05	-0.003412
-0.000231	-0.000229	-1.52E-06	
3	-0.000556	-6.01E-05	-0.006624
-0.000312	-0.000199	-1.04E-06	
4	-0.000555	-6.36E-05	-0.008849
-0.000356	-0.000155	-1.84E-06	
5	-0.000555	-6.53E-05	-0.009788
-0.000355	-0.000138	-4.03E-06	
6	-0.000556	-6.43E-05	-0.009368
-0.000321	-0.000295	-6.38E-06	
7	-0.000556	-5.95E-05	-0.007729
-0.000259	-0.000462	-8.02E-06	
8	-0.000557	-5.00E-05	-0.005281
-0.000176	-0.000554	-8.64E-06	
9	-0.000559	-4.34E-05	-0.002526
-8.44E-05	-0.000550	-8.57E-06	
10	-0.000561	-4.04E-05	-4.37E-07
-5.31E-05	-0.000451	-6.81E-06	
11	-0.000562	-3.57E-05	-0.001797
-0.000106	-0.000353	-5.97E-06	
12	-0.000565	-3.70E-05	-0.004713
-0.000203	-0.000224	-3.99E-06	
13	-0.000567	-4.61E-05	-0.007603
-0.000290	-0.000177	-2.22E-06	
14	-0.000570	-4.84E-05	-0.009965
-0.000352	-0.000162	-1.76E-06	
15	-0.000572	-4.52E-05	-0.011275
-0.000377	-0.000128	-2.14E-06	
16	-0.000573	-3.85E-05	-0.011289
-0.000365	-0.000253	-4.19E-06	
17	-0.000574	-3.33E-05	-0.010002
-0.000326	-0.000436	-6.12E-06	
18	-0.000574	-3.02E-05	-0.007653
-0.000254	-0.000564	-7.26E-06	
19	-0.000573	-3.01E-05	-0.004757
-0.000165	-0.000608	-7.64E-06	
20	-0.000573	-3.55E-05	-0.001821
-6.90E-05	-0.000561	-7.29E-06	
21	-0.000572	-4.18E-05	-4.36E-07
-3.41E-05	-0.000477	-6.17E-06	
22	-0.000571	-4.14E-05	-0.001860
-8.75E-05	-0.000378	-5.55E-06	
23	-0.000569	-4.47E-05	-0.004879
-0.000187	-0.000245	-3.84E-06	
24	-0.000568	-5.32E-05	-0.007891
-0.000277	-0.000187	-2.21E-06	
25	-0.000566	-5.53E-05	-0.010385
-0.000346	-0.000172	-2.00E-06	
26	-0.000565	-5.23E-05	-0.011774
-0.000380	-0.000131	-2.23E-06	
27	-0.000563	-5.75E-05	-0.011786
-0.000379	-0.000256	-4.18E-06	
28	-0.000562	-6.08E-05	-0.010415
-0.000345	-0.000450	-6.22E-06	
29	-0.000560	-5.82E-05	-0.007931
-0.000275	-0.000581	-7.45E-06	
30	-0.000559	-4.82E-05	-0.004915
-0.000185	-0.000624	-7.92E-06	
31	-0.000558	-4.21E-05	-0.001881
-8.51E-05	-0.000577	-7.66E-06	
32	-0.000557	-4.18E-05	-4.37E-07
-3.11E-05	-0.000493	-7.00E-06	
33	-0.000556	-3.61E-05	-0.001896
-7.27E-05	-0.000393	-6.58E-06	
34	-0.000555	-3.24E-05	-0.004965
-0.000171	-0.000258	-4.98E-06	
35	-0.000554	-3.57E-05	-0.008023
-0.000261	-0.000212	-3.34E-06	
36	-0.000553	-5.17E-05	-0.010559
-0.000335	-0.000196	-3.21E-06	
37	-0.000552	-6.69E-05	-0.011981
-0.000375	-0.000149	-2.95E-06	
38	-0.000551	-7.94E-05	-0.012010
-0.000386	-0.000244	-3.79E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000550	-8.75E-05	-0.010636
-0.000358	-0.000441	-5.47E-06	
40	-0.000550	-8.95E-05	-0.008124
-0.000292	-0.000579	-6.35E-06	
41	-0.000549	-8.38E-05	-0.005057
-0.000203	-0.000630	-7.11E-06	
42	-0.000549	-7.09E-05	-0.001947
-0.000104	-0.000590	-6.62E-06	
43	-0.000549	-6.30E-05	-4.51E-07
-4.77E-05	-0.000512	-6.36E-06	

-0.000367	-0.000362	-1.75E-06	
72	-0.000486	-1.22E-05	-0.006310
-0.000278	-0.000467	-2.20E-06	
73	-0.000485	-8.82E-06	-0.003939
-0.000172	-0.000504	-2.35E-06	
74	-0.000485	-9.42E-06	-0.001520
-6.74E-05	-0.000468	-2.25E-06	
75	-0.000485	-1.45E-05	-4.53E-07
-2.22E-05	-0.000404	-1.89E-06	
76	-0.000485	-1.99E-05	-0.001557
-8.40E-05	-0.000327	-2.29E-06	
77	-0.000485	-2.59E-05	-0.004052
-0.000194	-0.000221	-1.80E-06	
78	-0.000485	-2.95E-05	-0.006527
-0.000303	-0.000171	-1.33E-06	
79	-0.000484	-3.08E-05	-0.008580
-0.000390	-0.000155	-1.13E-06	
80	-0.000484	-3.07E-05	-0.009726
-0.000437	-0.000115	-9.35E-07	
81	-0.000484	-3.31E-05	-0.009735
-0.000436	-0.000205	-1.12E-06	
82	-0.000484	-3.42E-05	-0.008604
-0.000389	-0.000367	-1.60E-06	
83	-0.000484	-3.31E-05	-0.006560
-0.000301	-0.000477	-2.15E-06	
84	-0.000484	-2.93E-05	-0.004081
-0.000193	-0.000515	-2.52E-06	
85	-0.000484	-2.19E-05	-0.001573
-8.23E-05	-0.000482	-2.59E-06	
86	-0.000484	-1.45E-05	-4.53E-07
-2.05E-05	-0.000418	-2.29E-06	
87	-0.000484	-9.16E-06	-0.001589
-6.92E-05	-0.000342	-2.98E-06	
88	-0.000484	-1.55E-05	-0.004128
-0.000176	-0.000235	-2.74E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	-0.000484	-2.46E-05	-0.006648
-0.000284	-0.000195	-2.34E-06	
90	-0.000484	-3.58E-05	-0.008741
-0.000377	-0.000178	-2.19E-06	
91	-0.000484	-4.59E-05	-0.009921
-0.000435	-0.000133	-1.87E-06	
92	-0.000484	-5.41E-05	-0.009949
-0.000446	-0.000187	-1.46E-06	
93	-0.000484	-5.94E-05	-0.008816
-0.000409	-0.000353	-1.13E-06	
94	-0.000484	-6.09E-05	-0.006746
-0.000327	-0.000470	-1.46E-06	
95	-0.000484	-5.73E-05	-0.004218
-0.000222	-0.000517	-2.10E-06	
96	-0.000484	-4.76E-05	-0.001638
-0.000111	-0.000494	-2.54E-06	
97	-0.000484	-3.79E-05	-4.61E-07
-4.69E-05	-0.000437	-2.09E-06	
98	-0.000484	-2.29E-05	-0.002621
-9.39E-05	-0.000336	-2.45E-06	
99	-0.000485	-1.17E-05	-0.005525
-0.000205	-0.000234	-1.78E-06	
100	-0.000485	-8.75E-06	-0.008305
-0.000319	-0.000137	-1.71E-06	
101	-0.000485	-9.41E-06	-0.010530
-0.000420	-4.68E-05	-1.77E-06	
102	-0.000485	-1.05E-05	-0.011803
-0.000493	-3.58E-05	-1.68E-06	
103	-0.000485	-1.16E-05	-0.011876
-0.000526	-0.000164	-1.53E-06	
104	-0.000484	-1.27E-05	-0.010684
-0.000511	-0.000352	-1.35E-06	
105	-0.000484	-1.66E-05	-0.008340
-0.000442	-0.000539	-1.41E-06	
106	-0.000484	-1.96E-05	-0.005097
-0.000323	-0.000699	-1.58E-06	
107	-0.000483	-1.98E-05	-0.001224
-0.000166	-0.000805	-1.90E-06	
108	-0.000483	-1.93E-05	-3.62E-07
-0.000129	-0.000816	-4.04E-06	
109	-0.000391	-3.47E-05	-3.43E-08
-0.000153	-0.000194	-8.82E-06	
110	-0.000392	-2.82E-05	-0.001792
-0.000244	-0.000185	-8.45E-06	
111	-0.000393	-3.87E-05	-0.003521
-0.000335	-0.000160	-7.27E-06	
112	-0.000393	-6.54E-05	-0.004756
-0.000382	-0.000121	-5.57E-06	
113	-0.000394	-8.13E-05	-0.005324
-0.000387	-6.63E-05	-3.43E-06	
114	-0.000394	-8.40E-05	-0.005160
-0.000354	-0.000153	-1.36E-06	
115	-0.000394	-7.38E-05	-0.004332
-0.000288	-0.000255	-4.49E-07	
116	-0.000394	-5.43E-05	-0.003032
-0.000198	-0.000315	-1.17E-06	
117	-0.000394	-3.11E-05	-0.001505
-9.84E-05	-0.000324	-2.69E-06	
118	-0.000393	-1.53E-05	-5.86E-08
-6.33E-05	-0.000291	-4.26E-06	
119	-0.000392	-2.34E-05	-0.001125
-0.000120	-0.000252	-5.17E-06	
120	-0.000390	-4.93E-05	-0.002849
-0.000220	-0.000181	-5.85E-06	
121	-0.000388	-7.67E-05	-0.004508
-0.000312	-0.000146	-5.62E-06	
122	-0.000386	-9.87E-05	-0.005846
-0.000377	-0.000130	-4.58E-06	
123	-0.000384	-0.000112	-0.006591
-0.000406	-9.23E-05	-3.08E-06	
124	-0.000383	-0.000115	-0.006606
-0.000398	-1.63E-06	-7.27E-06	
125	-0.000382	-0.000106	-0.005887
-0.000355	-0.000244	-1.26E-06	
126	-0.000382	-8.60E-05	-0.004563
-0.000280	-0.000327	-8.79E-07	
127	-0.000383	-5.96E-05	-0.002901
-0.000185	-0.000361	-1.69E-06	
128	-0.000383	-3.26E-05	-0.001154
-8.32E-05	-0.000350	-3.31E-06	
129	-0.000383	-1.86E-05	-6.02E-08
-4.62E-05	-0.000320	-4.43E-06	
130	-0.000384	-2.13E-05	-0.001191
-0.000103	-0.000278	-5.34E-06	
131	-0.000385	-4.73E-05	-0.003011
-0.000205	-0.000202	-5.94E-06	
132	-0.000386	-7.36E-05	-0.004766
-0.000301	-0.000155	-5.63E-06	
133	-0.000387	-9.39E-05	-0.006195
-0.000373	-0.000139	-4.50E-06	
134	-0.000389	-0.000104	-0.006989
-0.000412	-9.91E-05	-2.83E-06	
135	-0.000390	-0.000105	-0.006995
-0.000411	-0.000117	-1.77E-06	
136	-0.000391	-9.33E-05	-0.006212
-0.000373	-0.000245	-1.48E-06	
137	-0.000392	-7.17E-05	-0.004789
-0.000300	-0.000334	-1.15E-06	
138	-0.000393	-4.43E-05	-0.003031
-0.000204	-0.000371	-1.82E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	-0.000394	-1.96E-05	-0.001202
-0.000101	-0.000361	-3.35E-06	
140	-0.000394	-2.12E-05	-5.91E-08
-4.38E-05	-0.000331	-4.45E-06	
141	-0.000395	-3.41E-05	-0.001219
-8.66E-05	-0.000289	-5.33E-06	
142	-0.000395	-5.78E-05	-0.003081
-0.000190	-0.000213	-5.88E-06	
143	-0.000396	-8.02E-05	-0.004880
-0.000287	-0.000179	-5.47E-06	
144	-0.000396	-9.83E-05	-0.006347
-0.000364	-0.000161	-4.27E-06	
145	-0.000397	-0.000110	-0.007171
-0.000409	-0.000116	-2.61E-06	
146	-0.000398	-0.000109	-0.007194
-0.000417	-0.000100	-2.23E-06	
147	-0.000398	-9.55E-06	-0.006408
-0.000385	-0.000231	-1.82E-06	
148	-0.000399	-7.22E-05	-0.004961
-0.000316	-0.000327	-1.28E-06	
149	-0.000399	-4.56E-05	-0.003158
-0.000222	-0.000372	-1.53E-06	
150	-0.000399	-4.03E-05	-0.001261
-0.000119	-0.000371	-2.19E-06	
151	-0.000400	-4.75E-05	-7.39E-08
-6.20E-05	-0.000347	-3.95E-06	
152	-0.000400	-6.72E-05	-0.002035
-0.000110	-0.000292	-5.22E-06	
153	-0.000400	-9.13E-05	-0.004195
-0.000220	-0.000216	-5.47E-06	
154	-0.000401	-0.000111	-0.006211
-0.000325	-0.000132	-4.67E-06	
155	-0.000401	-0.000121	-0.007788
-0.000410	-5.09E-05	-3.17E-06	
156	-0.000402	-0.000117	-0.008664
-0.000467	-1.12E-05	-2.39E-06	
157	-0.000402	-0.000101	-0.008677
-0.000493	-8.68E-05	-1.98E-06	
158	-0.000402	-7.95E-05	-0.007782
-0.000482	-0.000237	-2.38E-06	
159	-0.000402	-4.69E-05	-0.006059
-0.000430	-0.000384	-2.14E-06	
160	-0.000401	-1.58E-05	-0.003684
-0.000333	-0.000503	-1.98E-06	
161	-0.000401	-1.78E-05	-0.000878
-0.000196	-0.000573	-1.89E-06	
162	-0.000401	-1.98E-05	-3.45E-08
-0.000166	-0.000579	-1.87E-06	
163	-0.000519	-4.63E-05	-0.000105
-0.000111	-0.000246	-4.28E-05	
164	-0.000518	-4.85E-05	-0.003110
-0.000242	-0.000336	-3.91E-05	
165	-0.000518	-5.06E-05	-0.006079
-0.000392	-0.000302	-3.94E-05	
166	-0.000518	-5.18E-05	-0.008168
-0.000473	-0.000278	-3.99E-05	
167	-0.000518	-5.18E-05	-0.009062
-0.000488	-0.000273	-4.02E-05	
168	-0.000518	-5.01E-05	-0.008685
-0.000446	-0.000435	-4.55E-05	
169	-0.000518	-4.62E-05	-0.007160
-0.000361	-0.000579	-5.53E-05	
170	-0.000519	-3.96E-05	-0.004883
-0.000252	-0.000658	-6.14E-05	
171	-0.000518	-2.68E-05	-0.002336
-0.000132	-0.000647	-6.30E-05	
172	-0.000521	-1.98E-05	-5.12E-05
-4.30E-05	-0.000525	-5.44E-05	
173	-0.000523	-2.09E-05	-0.001663
-0.000111	-0.000393	-4.90E-05	
174	-0.000524	-2.61E-05	-0.004365
-0.000248	-0.000322	-5.00E-05	
175	-0.000526	-3.53E-05	-0.007050
-0.000366	-0.000284	-4.52E-05	
176	-0.000528	-3.66E-05	-0.009261
-0.000455	-0.000279	-4.43E-05	
177	-0.000529	-3.42E-05	-0.010499
-0.000497	-0.000262	-4.42E-05	
178	-0.000529	-2.93E-05	-0.010514
-0.000490	-0.000390	-4.90E-05	
179	-0.000529	-2.28E-05	-0.009301
-0.000433	-0.000553	-5.51E-05	
180	-0.000528	-1.74E-05	-0.007102
-0.000336	-0.000670	-5.84E-05	
181	-0.000527	-1.34E-05	-0.004412
-0.000217	-0.000703	-5.77E-05	
182	-0.000527	-1.48E-05	-0.001689
-8.96E-05	-0.000633	-4.78E-05	
183	-0.000526	-2.15E-05	-4.57E-05
-2.81E-05	-0.000504	-3.66E-05	
184	-0.000526	-2.69E-05	-0.001726
-9.73E-05	-0.000412	-3.36E-05	
185	-0.000525	-3.53E-05	-0.004528
-0.000229	-0.000338	-3.59E-05	
186	-0.000525	-4.08E-05	-0.007329
-0.000350	-0.000290	-3.74E-05	
187	-0.000524	-4.21E-05	-0.009666
-0.000447	-0.000285	-4.12E-05	
188	-0.000524	-4.07E-05	-0.010979
-0.000496	-0.000268	-4.71E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	-0.000523	-4.54E-05	-0.010990
-0.000496	-0.000387	-5.49E-05	
190	-0.000522	-4.79E-05	-0.009694
-0.000446	-0.000561	-7.06E-05	
191	-0.000522	-4.53E-05	-0.007366
-0.000349	-0.000683	-7.98E-05	
192	-0.000521	-3.95E-05	-0.004562
-0.000229	-0.000717	-8.13E-05	
193	-0.000521	-2.81E-05	-0.001746
-9.74E-05	-0.000647	-6.95E-05	
194	-0.000520	-2.18E-05	-4.60E-05
-2.61E-05	-0.000519	-4.53E-05	
195	-0.000520	-1.41E-05	-0.001759
-9.11E-05	-0.000426	-5.13E-05	
196	-0.000519	-2.01E-05	-0.004609
-0.000221	-0.000350	-4.61E-05	
197	-0.000519	-3.00E-05	-0.007454
-0.000342	-0.000311	-4.15E-05	
198	-0.000518	-4.38E-05	-0.009834
-0.000443	-0.000304	-3.83E-05	
199	-0.000518	-5.67E-05	-0.011181
-0.000500	-0.000282	-3.65E-05	
200	-0.000517	-6.74E-05	-0.011211
-0.000507	-0.000371	-4.04E-05	
201	-0.000515	-7.45E-05	-0.009914
-0.000464	-0.000548	-4.93E-05	
202	-0.000517	-7.68E-05	-0.007560
-0.000370	-0.000678	-5.93E-05	
203	-0.000517	-7.25E-05	-0.004708
-0.000249	-0.000720	-6.36E-05	
204	-0.000517	-5.95E-05	-0.001821
-0.000111	-0.000260	-5.45E-05	
205	-0.000516	-4.41E-05	-6.26E-05
-4.22E-05	-0.000549	-4.61E-05	
206	-0.000516	-2.71E-05	-0.002881
-0.000133	-0.000469	-4.55E-05	
207	-0.000516	-1.57E-05	-0.006135
-0.000261	-0.000351	-3.95E-05	
208	-0.000515	-8.82E-06	-0.009266
-0.000383	-0.000252	-3.48E-05	
209	-0.000515	-1.01E-05	-0.011798
-0.000489	-0.000172	-3.45E-05	
210	-0.000515	-1.32E-05	-0.013256
-0.000564	-0.000185	-3.56E-05	
211	-0.000515	-1.72E-05	-0.013362
-0.000592	-0.000345	-4.34E-05	
212	-0.000515	-2.04E-05	-0.012030
-0.000570	-0.000549	-5.47E-05	
213	-0.000515	-2.29E-05	-0.009390
-0.000495	-0.000754	-6.53E-05	
214	-0.000515	-2.51E-05	-0.005735
-0.000360	-0.000926	-8.31E-05	
215	-0.000515	-2.76E-05	-0.001359
-0.000151	-0.000964	-6.21E-05	
216	-0.000515	-2.76E-05	-7.95E-05
-8.87E-05	-0.000920	-7.26E-05	
217	-0.000435	-4.04E-05	-9.33E-05
-1.38E-05	-0.000207	-3.56E-05	
218	-0.000435	-3.59E-05	-0.002303
-0.000241	-0.000195	-2.88E-05	
219	-0.000436	-3.15E-05	-0.004423
-0.000417	-0.000169	-2.94E-05	
220	-0.000436	-2.85E-05	-0.005923
-0.000494	-0.000127	-3.01E-05	
221	-0.000436	-4.01E-05	-0.006590
-0.000502	-7.45E-05	-3.17E-05	
222	-0.000437	-4.47E-05	-0.006356
-0.000459	-0.000206	-3.60E-05	
223	-0.000437	-4.16E-05	-0.005301
-0.000372	-0.000322	-4.39E-05	
224	-0.000437	-3.31E-05	-0.003680
-0.000250	-0.000385	-4.94E-05	
225	-0.000437	-1.87E-05	-0.001814
-0.000101	-0.000385	-5.17E-05	
226	-0.000437	-1.37E-05	-4.24E-05
-6.77E-06	-0.000328	-4.61E-05	
227	-0.000437	-1.61E-05	-0.001336
-0.000102	-0.000372	-4.46E-05	
228	-0.000436	-2.91E-05	-0.003383
-0.000261	-0.000188	-4.83E-05	
229	-0.000436	-4.49E-05	-0.005381
-0.000392	-0.000153	-4.87E-05	
230	-0.000435	-5.78E-05	-0.007002
-0.000482	-0.000137	-4.76E-05	
231	-0.000434	-6.46E-05	-0.007907
-0.000520	-9.82E-05	-4.46E-05	
232	-0.000434	-6.39E-05	-0.007922
-0.000512	-0.000169	-3.99E-05	
233	-0.000433	-5.60E-05	-0.007043
-0.000457	-0.000303	-3.88E-05	
234	-0.000434	-4.25E-05	-0.005435
-0.000357	-0.000397	-3.83E-05	
235	-0.000434	-2.71E-05	-0.003433
-0.000223	-0.000430	-3.50E-05	
236	-0.000434	-1.71E-05	-0.001363
-6.94E-05	-0.000406	-2.69E-05	
237	-0.000434	-1.42E-05	-4.04E-05
-5.48E-06	-0.000359	-2.06E-05	
238	-0.000435	-1.71E-05	-0.001400
-8.72E-05	-0.000301	-1.79E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	-0.000435	-2.68E-05	-0.003544
-0.000245	-0.000212	-1.60E-05	
240	-0.000435	-4.11E-05	-0.005645
-0.000380	-0.000163	-1.95E-05	
241	-0.000436	-5.23E-05	-0.007369
-0.000479	-0.000146	-2.56E-05	
242	-0.000436	-5.68E-05	-0.008331
-0.000527	-0.000106	-3.68E-05	
243	-0.000436	-5.78E-05	-0.008339
-0.000527	-0.000160	-4.83E-05	
244	-0.000437	-5.12E-05	-0.007389
-0.000479	-0.000303	-6.02E-05	
245	-0.000437	-4.00E-05	-0.005671
-0.000380	-0.000404	-6.82E-05	
246	-0.000438	-2.56E-05	-0.003568
-0.000244	-0.000440	-7.03E-05	
247	-0.000438	-1.94E-05	-0.001412
-8.64E-05	-0.000420	-6.16E-05	
248	-0.000438	-1.58E-05	-4.13E-05
-5.49E-06	-0.000374	-5.22E-05	
249	-0.000439	-1.61E-05	-0.001430
-7.28E-05	-0.000316	-5.06E-05	
250	-0.000439	-2.72E-05	-0.003617
-0.000229	-0.000225	-4.49E-05	
251	-0.000439	-4.33E-05	-0.005762
-0.000365	-0.000187	-3.79E-05	
252	-0.000439	-5.66E-05	-0.007526
-0.000469	-0.000168	-3.26E-05	
253	-0.000440	-6.31E-05	-0.008520
-0.000524	-0.000123	-2.82E-05	
254	-0.000440	-6.35E-05	-0.008544
-0.000533	-0.000140	-2.95E-05	
255	-0.000440	-5.68E-05	-0.007592
-0.000493	-0.000286	-3.62E-05	
256	-0.000441	-4.65E-05	-0.005849
-0.000399	-0.000395	-4.36E-05	
257	-0.000441	-4.46E-05	-0.003697
-0.000264	-0.000442	-4.77E-05	
258	-0.000441	-5.10E-05	-0.001470
-0.000102	-0.000433	-4.15E-05	
259	-0.000441	-3.92E-05	-5.80E-05
-8.09E-06	-0.000395	-3.70E-05	
260	-0.000441	-4.22E-05	-0.002365
-0.000104	-0.000317	-3.43E-05	
261	-0.000441	-4.72E-05	-0.004880
-0.000263	-0.000228	-3.02E-05	
262	-0.000442	-5.32E-05	-0.007258
-0.000400	-0.000137	-2.73E-05	
263	-0.000442	-5.64E-05	-0.009145
-0.000509	-5.10E-05	-2.84E-05	
264	-0.000442	-5.39E-05	-0.010208
-0.000582	-2.39E-05	-2.95E-05	
265	-0.000442	-4.30E-05	-0.010248
-0.000614	-0.000120	-3.35E-05	
266	-0.000442	-2.56E-05	-0.009214
-0.000600	-0.000286	-4.29E-05	
267	-0.000442	-1.45E-05	-0.007199
-0.000527	-0.000453	-5.63E-05	
268	-0.000442	-1.54E-05	-0.004419
-0.000380	-0.000594	-7.07E-05	
269	-0.000441	-1.94E-05	-0.001115
-0.000108	-0.000692	-5.11E-05	
270	-0.000441	-1.95E-05	-9.05E-05
-2.82E-05	-0.000710	-6.37E-05	
271	-0.000734	-7.94E-06	.000000
-0.000141	-0.000522	-2.06E-06	
272	-0.001033	-4.04E-05	.000000
-5.78E-05	-0.000448	-6.81E-06	.000000
273	.000000	.000000	.000000
-3.83E-05	-0.000476	-6.17E-06	
274	-0.000754	-3.83E-06	.000000
-3.41E-05	-0.000493	-7.00E-06	
275	-0.000622	-1.74E-05	.000000
-8.15E-05	-0.000508	-6.36E-06	
276	-0.000568	-5.60E-06	.000000
-0.000153	-0.000997	-6.61E-06	
277	-0.000577	-3.26E-05	.000000
-8.60E-05	-0.000213	-3.44E-06	
278	-0.000896	-3.54E-05	.000000
-4.38E-05	-0.000375	-2.58E-06	
279	.000000	.000000	.000000
-2.66E-05	-0.000403	-1.89E-06	
280	-0.000657	-3.35E-06	.000000
-2.32E-05	-0.000418	-2.29E-06	
281	-0.000514	-1.15E-05	.000000
-2.85E-05	-0.000438	-5.26E-06	
282	-0.000506	-2.44E-05	.000000
-5.40E-05	-0.000823	-4.04E-06	
283	-0.000350	-3.28E-05	.000000
-0.000126	-0.000180	-8.82E-06	
284	-0.000730	-2.42E-05	.000000
-0.000109	-0.000266	-4.26E-06	
285	-1.56E-06	-5.26E-05	.000000
-4.66E-05	-0.000318	-4.43E-06	
286	-0.000520	-0.000173	.000000
-2.77E-05	-0.000337	-4.45E-06	
287	-0.000397	-0.000134	.000000
-2.16E-05	-0.000353	-3.95E-06	
288	-0.000415	-0.000103	.000000
-6.77E-05	-0.000597	-1.87E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DB-G1-4 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000575	0.000137	4.90E-08
6.13E-05	0.000736	6.24E-06	
2	0.000574	0.000141	0.001127
0.000132	0.000679	5.36E-06	
3	0.000574	0.000154	0.002276
0.000198	0.000530	4.37E-06	
4	0.000574	0.000165	0.003236
0.000240	0.000338	3.19E-06	
5	0.000574	0.000165	0.003916
0.000262	0.000136	2.45E-06	
6	0.000574	0.000152	0.004219
0.000266	5.26E-06	1.98E-06	
7	0.000574	0.000128	0.004052
0.000245	8.91E-05	3.28E-06	
8	0.000575	9.72E-05	0.003336
0.000193	0.000206	4.93E-06	
9	0.000576	6.59E-05	0.001995
0.000113	0.000334	6.87E-06	
10	0.000576	4.04E-05	6.48E-08
5.28E-05	0.000464	6.88E-06	
11	0.000577	5.14E-05	0.001406
6.90E-05	0.000548	7.23E-06	
12	0.000578	7.16E-05	0.002894
0.000150	0.000579	6.97E-06	
13	0.000579	9.44E-05	0.003797
0.000210	0.000532	6.22E-06	
14	0.000580	0.000115	0.004190
0.000247	0.000404	5.19E-06	
15	0.000580	0.000126	0.004123
0.000263	0.000223	4.08E-06	
16	0.000581	0.000126	0.004475
0.000272	0.000119	2.99E-06	
17	0.000582	0.000113	0.004560
0.000264	0.000158	3.20E-06	
18	0.000582	9.06E-05	0.004136
0.000230	0.000174	3.71E-06	
19	0.000582	6.18E-05	0.003152
0.000167	0.000260	5.35E-06	
20	0.000582	3.46E-05	0.001532
7.96E-05	0.000392	6.87E-06	
21	0.000582	3.83E-05	6.67E-08
3.80E-05	0.000485	6.60E-06	
22	0.000581	5.45E-05	0.001503
7.31E-05	0.000563	7.03E-06	
23	0.000580	8.27E-05	0.003106
0.000159	0.000606	6.94E-06	
24	0.000579	0.000112	0.004099
0.000221	0.000563	6.43E-06	
25	0.000578	0.000136	0.004553
0.000258	0.000558	5.45E-06	
26	0.000577	0.000151	0.004487
0.000272	0.000239	4.29E-06	
27	0.000575	0.000153	0.004675
0.000274	0.000129	3.02E-06	
28	0.000574	0.000140	0.004747
0.000261	0.000172	3.16E-06	
29	0.000573	0.000117	0.004277
0.000224	0.000189	3.81E-06	
30	0.000572	8.69E-05	0.003242
0.000161	0.000269	5.53E-06	
31	0.000571	5.61E-05	0.001569
7.38E-05	0.000402	7.22E-06	
32	0.000572	3.75E-05	7.15E-08
3.64E-05	0.000497	7.33E-06	
33	0.000570	3.85E-05	0.001557
8.06E-05	0.000574	7.88E-06	
34	0.000569	6.91E-05	0.003223
0.000169	0.000619	7.87E-06	
35	0.000569	0.000102	0.004261
0.000233	0.000576	7.26E-06	
36	0.000568	0.000130	0.004741
0.000269	0.000445	6.48E-06	
37	0.000567	0.000147	0.004739
0.000278	0.000249	5.41E-06	
38	0.000567	0.000150	0.005277
0.000271	0.000134	4.01E-06	
39	0.000567	0.000143	0.005354
0.000254	0.000177	3.04E-06	
40	0.000566	0.000126	0.004821
0.000216	0.000196	3.45E-06	
41	0.000566	0.000102	0.003652
0.000154	0.000301	5.18E-06	
42	0.000566	7.80E-05	0.001767
6.94E-05	0.000452	7.15E-06	
43	0.000566	6.59E-05	6.40E-08
5.62E-05	0.000558	7.95E-06	
44	0.000566	4.34E-05	0.002253
0.000120	0.000672	9.74E-06	
45	0.000565	7.67E-05	0.003877
0.000206	0.000699	9.83E-06	
46	0.000565	9.06E-05	0.004885
0.000264	0.000631	9.29E-06	
47	0.000565	0.000149	0.005340
0.000292	0.000478	8.59E-06	
48	0.000564	0.000176	0.005302
0.000302	0.000271	7.43E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000564	0.000191	0.004848
0.000291	0.000152	5.74E-06	
50	0.000564	0.000192	0.004058
0.000263	0.000182	4.04E-06	
51	0.000563	0.000182	0.003009
0.000217	0.000227	3.29E-06	
52	0.000563	0.000166	0.001775
0.000152	0.000259	3.77E-06	
53	0.000563	0.000155	0.000418
5.91E-05

7.63E-05	0.000525	2.93E-06	
77	0.000544	3.18E-05	0.002895
0.000148	0.000564	2.91E-06	
78	0.000544	4.14E-05	0.003841
0.000201	0.000524	2.35E-06	
79	0.000543	4.96E-05	0.004288
0.000235	0.000404	1.81E-06	
80	0.000543	5.41E-05	0.004246
0.000245	0.000225	1.29E-06	
81	0.000543	5.46E-05	0.004427
0.000247	0.000120	1.00E-06	
82	0.000543	5.18E-05	0.004475
0.000237	0.000164	1.19E-06	
83	0.000543	4.48E-05	0.004011
0.000204	0.000180	1.44E-06	
84	0.000543	3.57E-05	0.003025
0.000150	0.000255	1.73E-06	
85	0.000543	2.86E-05	0.001459
7.68E-05	0.000376	2.54E-06	
86	0.000543	2.40E-05	5.44E-08
2.58E-05	0.000464	2.70E-06	
87	0.000543	1.91E-05	0.001446
7.26E-05	0.000536	3.70E-06	
88	0.000543	1.66E-05	0.003005
0.000148	0.000578	3.85E-06	
89	0.000542	2.74E-05	0.003994
0.000203	0.000539	3.54E-06	
90	0.000542	4.20E-05	0.004468
0.000239	0.000419	3.08E-06	
91	0.000542	5.41E-05	0.004492
0.000250	0.000238	2.44E-06	
92	0.000542	6.16E-05	0.005012
0.000250	0.000121	1.83E-06	
93	0.000542	6.43E-05	0.005063
0.000241	0.000168	1.26E-06	
94	0.000542	6.24E-05	0.004535
0.000211	0.000187	1.02E-06	
95	0.000542	5.60E-05	0.003418
0.000162	0.000286	1.93E-06	
96	0.000542	4.87E-05	0.001646
9.62E-05	0.000423	3.23E-06	
97	0.000542	4.47E-05	4.16E-08
5.53E-05	0.000521	3.08E-06	
98	0.000543	3.77E-05	0.002098
0.000106	0.000626	4.09E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	0.000543	3.10E-05	0.003625
0.000181	0.000652	4.53E-06	
100	0.000543	2.78E-05	0.004590
0.000233	0.000591	4.85E-06	
101	0.000543	4.20E-05	0.005041
0.000261	0.000452	4.67E-06	
102	0.000543	6.15E-05	0.005023
0.000275	0.000260	4.15E-06	
103	0.000543	7.80E-05	0.004604
0.000268	0.000116	3.57E-06	
104	0.000543	9.08E-05	0.003859
0.000240	0.000173	2.89E-06	
105	0.000543	9.84E-05	0.002864
0.000193	0.000217	2.21E-06	
106	0.000543	9.92E-05	0.001690
0.000127	0.000247	1.90E-06	
107	0.000542	9.39E-05	0.000399
5.89E-05	0.000264	3.22E-06	
108	0.000542	9.27E-05	2.66E-08
5.05E-05	0.000266	3.42E-06	
109	0.000493	7.23E-05	4.37E-08
3.84E-05	0.000555	5.20E-06	
110	0.000493	4.78E-05	0.001003
5.14E-05	0.000510	4.94E-06	
111	0.000494	4.50E-05	0.002027
7.94E-05	0.000396	4.14E-06	
112	0.000494	5.78E-05	0.002878
9.93E-05	0.000294	3.19E-06	
113	0.000494	6.73E-05	0.003472
0.000112	8.94E-05	2.34E-06	
114	0.000494	7.00E-05	0.003718
0.000118	1.73E-05	1.72E-06	
115	0.000494	6.59E-05	0.003537
0.000112	8.71E-05	3.15E-06	
116	0.000494	5.61E-05	0.002872
8.84E-05	0.000189	4.49E-06	
117	0.000494	4.27E-05	0.001685
4.97E-05	0.000292	5.19E-06	
118	0.000494	2.90E-05	5.26E-08
2.57E-05	0.000385	5.06E-06	
119	0.000494	2.93E-05	0.001169
3.39E-05	0.000434	4.71E-06	
120	0.000494	3.79E-05	0.002463
7.50E-05	0.000456	3.86E-06	
121	0.000494	4.90E-05	0.003291
0.000101	0.000413	3.32E-06	
122	0.000494	5.52E-05	0.003681
0.000113	0.000365	3.03E-06	
123	0.000493	5.83E-05	0.003674
0.000113	0.000156	2.56E-06	
124	0.000493	6.33E-05	0.004011
0.000119	0.000103	2.93E-06	
125	0.000493	6.20E-05	0.004052
0.000122	0.000141	4.29E-06	
126	0.000492	5.37E-05	0.003631
0.000109	0.000157	5.21E-06	
127	0.000492	3.94E-05	0.002726
7.83E-05	0.000237	5.54E-06	
128	0.000491	2.29E-05	0.001298
3.42E-05	0.000342	5.73E-06	
129	0.000491	1.63E-05	5.29E-08
1.65E-05	0.000408	5.52E-06	
130	0.000492	2.59E-05	0.001271
3.27E-05	0.000460	5.02E-06	
131	0.000493	4.56E-05	0.002681
7.63E-05	0.000486	4.01E-06	
132	0.000494	6.00E-05	0.003596
0.000105	0.000446	3.25E-06	
133	0.000494	8.88E-05	0.004044
0.000119	0.000336	2.87E-06	
134	0.000495	7.12E-05	0.004023
0.000117	0.000175	2.46E-06	
135	0.000496	7.03E-05	0.004198
0.000119	0.000113	3.37E-06	
136	0.000497	6.79E-05	0.004224
0.000121	0.000156	4.63E-06	
137	0.000498	5.89E-05	0.003760
0.000107	0.000173	5.47E-06	
138	0.000498	4.35E-05	0.002806
7.78E-05	0.000246	5.72E-06	
139	0.000499	2.30E-05	0.001331
3.29E-05	0.000351	5.87E-06	
140	0.000499	1.85E-05	5.65E-08
1.53E-05	0.000419	5.66E-06	
141	0.000500	2.77E-05	0.001319
3.51E-05	0.000473	5.18E-06	
142	0.000500	4.56E-05	0.002786
8.03E-05	0.000502	4.15E-06	
143	0.000500	6.07E-05	0.003743
0.000111	0.000464	3.23E-06	
144	0.000500	7.02E-05	0.004216
0.000126	0.000355	3.10E-06	
145	0.000500	7.26E-05	0.004295
0.000123	0.000192	3.28E-06	
146	0.000500	6.84E-05	0.004762
0.000119	0.000114	4.04E-06	
147	0.000500	5.89E-05	0.004789
0.000119	0.000160	5.21E-06	
148	0.000500	5.23E-05	0.004262
0.000106	0.000179	5.79E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000500	4.13E-05	0.003180
7.82E-05	0.000277	5.91E-06	
150	0.000500	3.42E-05	0.001509
3.50E-05	0.000398	6.10E-06	
151	0.000501	3.89E-05	5.51E-08
3.08E-05	0.000476	5.96E-06	
152	0.000389	4.85E-05	0.001929
5.87E-05	0.000557	5.34E-06	
153	0.000501	6.21E-05	0.003381
0.000103	0.000573	4.43E-06	
154	0.000502	7.57E-05	0.004318
0.000135	0.000515	3.76E-06	
155	0.000502	8.31E-05	0.004766
0.000150	0.000389	3.85E-06	
156	0.000502	8.42E-05	0.004764
0.000149	0.000215	4.68E-06	
157	0.000502	8.01E-05	0.004375
0.000136	0.000109	5.48E-06	
158	0.000502	7.21E-05	0.003670
0.000121	0.000166	6.80E-06	
159	0.000502	6.28E-05	0.002724
9.85E-05	0.000208	8.01E-06	
160	0.000502	5.75E-05	0.001606
6.62E-05	0.000237	8.80E-06	
161	0.000502	7.53E-05	0.000378
3.76E-05	0.000253	9.10E-06	
162	0.000502	8.26E-05	4.47E-08
3.67E-05	0.000254	9.06E-06	
163	0.000559	9.94E-05	9.26E-05
5.63E-05	0.000892	9.40E-05	
164	0.000558	0.000108	0.001089
0.000120	0.000773	6.98E-05	
165	0.000558	0.000118	0.002209
0.000236	0.000633	5.98E-05	
166	0.000558	0.000123	0.003143
0.000294	0.000450	5.20E-05	
167	0.000557	0.000120	0.003804
0.000322	0.000260	4.56E-05	
168	0.000557	0.000107	0.004096
0.000327	0.000135	4.44E-05	
169	0.000558	8.93E-05	0.003929
0.000304	0.000194	4.46E-05	
170	0.000558	6.87E-05	0.003233
0.000250	0.000296	4.66E-05	
171	0.000558	4.68E-05	0.001933
0.000153	0.000418	5.44E-05	
172	0.000559	3.08E-05	4.16E-05
5.15E-05	0.000509	5.75E-05	
173	0.000559	3.57E-05	0.001364
0.000101	0.000617	6.48E-05	
174	0.000560	4.72E-05	0.002804
0.000206	0.000676	7.51E-05	
175	0.000560	5.98E-05	0.003682
0.000272	0.000636	7.32E-05	
176	0.000561	7.42E-05	0.004068
0.000311	0.000512	6.62E-05	
177	0.000561	8.10E-05	0.004002
0.000324	0.000341	5.49E-05	
178	0.000562	7.93E-05	0.004361
0.000332	0.000236	5.05E-05	
179	0.000562	8.89E-05	0.004438
0.000325	0.000257	4.77E-05	
180	0.000562	5.15E-05	0.004019
0.000288	0.000264	4.65E-05	
181	0.000562	3.42E-05	0.003061
0.000217	0.000340	4.75E-05	
182	0.000562	1.67E-05	0.001489
0.000103	0.000428	4.67E-05	
183	0.000561	2.45E-05	3.87E-05
2.93E-05	0.000520	4.91E-05	
184	0.000561	3.64E-05	0.001460
0.000101	0.000639	6.10E-05	
185	0.000560	5.80E-05	0.003016
0.000211	0.000704	7.12E-05	
186	0.000560	8.01E-05	0.003983
0.000281	0.000668	7.01E-05	
187	0.000559	9.85E-05	0.004430
0.000322	0.000541	6.34E-05	
188	0.000559	0.000109	0.004373
0.000333	0.000358	5.22E-05	
189	0.000559	0.000110	0.004557
0.000335	0.000245	4.26E-05	
190	0.000558	0.000102	0.004621
0.000325	0.000269	4.09E-05	
191	0.000558	8.40E-05	0.004157
0.000285	0.000277	4.14E-05	
192	0.000557	6.14E-05	0.003149
0.000215	0.000348	4.64E-05	
193	0.000557	3.90E-05	0.001526
0.000104	0.000436	4.80E-05	
194	0.000556	2.48E-05	3.98E-05
2.75E-05	0.000530	4.89E-05	
195	0.000556	1.89E-05	0.001513
0.000104	0.000650	5.85E-05	
196	0.000556	9.91E-05	0.003128
0.000219	0.000717	6.73E-05	
197	0.000555	6.52E-05	0.004140
0.000292	0.000682	6.35E-05	
198	0.000554	8.90E-05	0.004614
0.000331	0.000555	5.34E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000554	0.000106	0.004611
0.000339	0.000370	4.51E-05	
200	0.000554	0.000113	0.005153
0.000333	0.000247	4.27E-05	
201	0.000554	0.000110	0.005222
0.000321	0.000274	4.19E-05	
202	0.000554	9.75E-05	0.004697
0.000281	0.000283	4.15E-05	
203	0.000554	7.96E-05	0.003559
0.000213	0.000379	4.26E-05	
204	0.000554	6.08E-05	0.001732
0.000107	0.000484	4.60E-05	
205	0.000554	4.98E-05	5.72E-05
5.65E-05	0.000624	5.56E-05	
206	0.000554	4.49E-05	0.002180
0.000156	0.000763	7.19E-05	
207	0.000554	4.13E-05	0.003760
0.000257	0.000795	7.51E-05	
208	0.000554	6.65E-05	0.004746
0.000321	0.000734	6.91E-05	
209	0.000554	9.75E-05	0.005197
0.000354	0.000589	5.66E-05	
210	0.000554	0.000123	0.005167
0.000361	0.000393	4.19E-05	
211	0.000554	0.000141	0.004729
0.000348	0.000259	3.73E-05	
212	0.000554	0.000148	0.003960
0.000317	0.000279	3.65E-05	
213	0.000554	0.000145	0.002938
0.000265	0.000305	3.69E-05	
214	0.000554	0.000133	0.001734
0.000178	0.000322	3.73E-05	
215	0.000554	0.000119	0.000410
3.56E-05	0.000270	2.54E-05	
216	0.000554	0.000114	7.73E-05
4.14E-05	0.000271	3.12E-05	
217	0.000516	7.63E-05	4.16E-05
6.88E-05	0.000808	8.54E-05	
218	0.000517	5.82E-05	0.001037
9.22E-05	0.000686	6.41E-05	
219	0.000517	4.50E-05	0.002086
0.000199	0.000560	5.48E-05	
220	0.000517	4.70E-05	0.002959
0.000208	0.000398	4.56E-05	
221	0.000517	5.01E-05	0.003569
0.000231	0.000238	3.97E-05	
222	0.000517	5.13E-05	0.003824
0.000232	0.000147	4.09E-05	
223	0.000517	4.80E-05	0.003642
0.000216	0.000200	4.37E-05	
224	0.000517	4.13E-05	0.002965
0.000183	0.000291	4.81E-05	
225	0.000517	3.76E-05	0.001739
0.000129	0.000400	5.53E-05	
226	0.000517	2.93E-05	2.13E-05
7.97E-05	0.000472	5.71E-05	
227	0.000518	2.72E-05	0.001204
0.000119	0.000565	6.36E-05	
228	0.000518	2.62E-05	0.002548
0.000168	0.000613	7.35E-05	
229	0.000519	3.25E-05	0.003395
0.000200	0.000574	7.05E-05	
230	0.000518	4.01E-05	0.003789
0.000221	0.000460	6.31E-05	
231	0.000518	4.64E-05	0.003754
0.000229	0.000308	5.31E-05	
232	0.000518	4.87E-05	0.004112
0.000231	0.000229	4.34E-05	
233	0.000518	4.52E-05	0.004160
0.000225	0.000250	3.51E-05	
234	0.000518	3.76E-05	0.003736
0.000201	0.000256	3.03E-05	
235	0.000518	2.80E-05	0.002810
0.000162	0.000331	3.03E-05	
236	0.000518	2.12E-05	0.001334
0.000101	0.000404	3.36E-05	
237	0.000518	1.94E-05	1.91E-05
5.49E-05	0.000482	3.75E-05	
238	0.000518	2.13E-05	0.001306
0.000107	0.000587	4.88E-05	
239	0.000518	3.53E-05	0.002766
0.000181	0.000629	5.99E-05	
240	0.000518	4.81E-05	0.003700
0.000196	0.000607	6.14E-05	
241	0.000518	5.74E-05	0.004152
0.000220	0.000492	5.74E-05	
242	0.000519	6.14E-05	0.004124
0.000226	0.000327	5.06E-05	
243	0.000519	6.02E-05	0.004302
0.000228	0.000236	4.83E-05	
244	0.000519	5.62E-05	0.004335
0.000222	0.000260	4.82E-05	
245	0.000520	4.61E-05	0.003867
0.000199	0.000268	4.79E-05	
246	0.000520	3.32E-05	0.002892
0.000162	0.000337	4.78E-05	
247	0.000520	2.02E-05	0.001367
0.000107	0.000411	4.70E-05	
248	0.000520	2.09E-05	2.00E-05
5.29E-05	0.000490	4.81E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000520	2.28E-05	0.001356
0.000103	0.000597	5.78E-05	
250	0.000520	3.12E-05	0.002873
0.000164	0.000656	6.50E-05	
251	0.000520	4.56E-05	0.003850
0.000204	0.000625	6.14E-05	
252	0.000520	5.73E-05	0.004327
0.000230	0.000556	5.20E-05	
253	0.000520	6.39E-05	0.004381
0.000235	0.000342	4.31E-05	
254	0.000520	6.43E-05	0.004873
0.000236	0.000235	3.78E-05	
255	0.000520	5.87E-05	0.004907
0.000230	0.000262	3.60E-05	
256	0.000521	4.79E-05	0.004374
0.000208	0.000273	3.67E-05	
257	0.000521	4.10E-05	0.003268
0.000176	0.000368	4.14E-05	
258	0.000521	4.07E-05	0.001539
0.000125	0.000457	4.30E-05	
259	0.000521	4.12E-05	2.81E-05
8.30E-05	0.000580	5.12E-05	
260	0.000521	4.35E-05	0.001992
0.000130	0.000700	6.62E-05	
261	0.000521	4.50E-05	0.003484
0.000188	0.000729	6.82E-05	
262	0.000522	5.28E-05	0.004438
0.000229	0.000674	6.29E-05	
263	0.000522	5.43E-05	0.004891
0.000256	0.000544	5.33E-05	
264	0.000522	7.28E-05	0.004884
0.000267	0.000366	4.31E-05	
265	0.000522	7.57E-05	0.004482
0.000262	0.000228	3.76E-05	
266	0.000522	7.23E-05	0.003760
0.000237	0.000264	3.75E-05	
267	0.000522	6.86E-05	0.002792
0.000190	0.000293	3.81E-05	
268	0.000522	7.55E-05	0.001647
0.000123	0.000310	3.90E-05	
269	0.000521	8.63E-05	0.000388
4.06E-05	0.000259	2.10E-05	
270	0.000521	8.74E-05	3.53E-05
5.10E-05	0.000261	3.17E-05	
271	0.000492	1.10E-05	.000000
7.56E-05	0.000737	6.24E-06	
272	0.000738	5.80E-05	.000000
6.46E-05	0.000462	6.88E-06	
273	0.000484	6.00E-05	.000000
4.49E-05	0.000484	6.60E-06	
274	0.001085	2.74E-06	.000000
3.91E-05	0.000496	7.33E-06	
275	0.000487	2.16E-05	.000000
8.65E-05	0.000554	7.95E-06	
276	0.001115	1.10E-05	.000000
4.20E-05	0.000578	5.61E-06	
277	0.000458	4.93E-05	.000000
9.67E-05	0.000677	5.61E-06	
278	0.000699	5.46E-05	.000000
5.18E-05	0.000431	2.19E-06	
279	.000000	.000000	.000000
3.40E-05	0.000453	1.37E-06	
280	0.001029	2.58E-06	.000000
2.85E-05	0.000464	2.70E-06	
281	0.000453	1.02E-05	.000000
3.35E-05	0.000522	3.08E-06	
282	0.001049	5.06E-05	.000000
3.13E-05	0.000269	3.42E-06	
283	0.000415	4.86E-06	.000000
0.000108	0.000554	5.20E-06	
284	0.000639	1.08E-21	.000000
9.00E-05	0.000374	5.06E-06	
285	5.79E-07	1.96E-05	.000000
2.36E-05	0.000409	5.52E-06	
286	0.000919	0.000197	.000000
2.35E-21	0.000413	5.66E-06	
287	0.000390	8.04E-05	.000000
1.26E-21	0.000473	5.96E-06	
288	0.000905	0.000140	.000000
1.95E-06	0.000256	9.08E-06	

COMB DB-G1-4 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000561	-7.22E-05	-3.00E-07
-0.000131	-0.000252	-6.47E-06	
2	-0.000560	-7.18E-05	-0.003253
-0.000197	-0.000241	-9.00E-06	
3	-0.000560	-8.76E-05	-0.006327
-0.000267	-0.000210	-2.90E-06	
4	-0.000559	-9.72E-05	-0.008468
-0.000308	-0.000163	-3.03E-06	
5	-0.000560	-0.000100	-0.009386
-0.000313	-0.000134	-4.31E-06	
6	-0.000560	-9.72E-05	-0.009004
-0.000288	-0.000261	-5.69E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000560	-8.73E-05	-0.007452
-0.000239	-0.000427	-6.76E-06	
8	-0.000561	-7.02E-05	-0.005115
-0.000169	-0.000524	-7.05E-06	
9	-0.000562	-5.39E-05	-0.002464
-8.62E-05	-0.000529	-7.92E-06	
10	-0.000563	-4.49E-05	-3.67E-07
-4.86E-05	-0.000444	-7.16E-06	
11	-0.000564	-4.60E-05	-0.001771
-9.50E-05	-0.000358	-7.28E-06	
12	-0.000566	-5.70E-05	-0.004612
-0.000184	-0.000235	-5.54E-06	
13	-0.000567	-7.44E-05	-0.007411
-0.000261	-0.000187	-3.79E-06	
14	-0.000568	-8.39E-05	-0.009693
-0.000314	-0.000170	-3.11E-06	
15	-0.000570	-8.54E-05	-0.010959
-0.000334	-0.000132	-2.58E-06	
16	-0.000571	-8.01E-05	-0.010975
-0.000323	-0.000228	-4.16E-06	
17	-0.000571	-7.15E-05	-0.009735
-0.000293	-0.000410	-5.25E-06	
18	-0.000571	-6.16E-05	-0.007467
-0.000235	-0.000539	-6.17E-06	
19	-0.000571	-5.15E-05	-0.004663
-0.000157	-0.000588	-6.80E-06	
20	-0.000571	-4.57E-05	-0.001799
-6.82E-05	-0.000550	-6.94E-06	
21	-0.000570	-4.56E-05	-3.67E-07
-3.19E-05	-0.000475	-6.60E-06	
22	-0.000570	-4.51E-05	-0.001841
-8.14E-05	-0.000385	-6.89E-06	
23	-0.000568	-5.85E-05	-0.004793
-0.000172	-0.000258	-5.43E-06	
24	-0.000568	-7.57E-05	-0.007719
-0.000251	-0.000197	-3.81E-06	
25	-0.000567	-8.47E-05	-0.010134
-0.000310	-0.000180	-3.06E-06	
26	-0.000566	-8.60E-05	-0.011478
-0.000336	-0.000135	-3.06E-06	
27	-0.000565	-9.02E-05	-0.011489
-0.000336	-0.000237	-4.14E-06	
28	-0.000564	-8.89E-05	-0.010163
-0.000309	-0.000431	-5.32E-06	
29	-0.000563	-7.93E-05	-0.007757
-0.000251	-0.000563	-6.35E-06	
30	-0.000562	-6.09E-05	-0.004828
-0.000171	-0.000608	-7.01E-06	
31	-0.000561	-4.53E-05	-0.001861
-7.95E-05	-0.000568	-7.22E-06	
32	-0.000561	-4.60E-05	-3.67E-07
-2.95E-05	-0.000492	-7.03E-06	
33	-0.000560	-4.63E-05	-0.001879
-7.15E-05	-0.000400	-7.73E-06	
34	-0.000560	-5.31E-05	-0.004884
-0.000162	-0.000270	-6.29E-06	
35	-0.000559	-6.53E-05	-0.007859
-0.000241	-0.000223	-4.53E-06	
36	-0.000558	-8.47E-05	-0.010320
-0.000302	-0.000204	-4.09E-06	
37	-0.000558	-0.000100	-0.011700
-0.000332	-0.000153	-3.35E-06	
38	-0.000557	-0.000108	-0.011730
-0.000342	-0.000232	-3.70E-06	
39	-0.000556	-0.000109	-0.010400
-0.000320	-0.000430	-4.79E-06	
40	-0.000556	-0.000102	-0.007965
-0.000264	-0.000567	-5.78E-06	
41	-0.000556	-8.69E-05	-0.004981
-0.000184	-0.000619	-6.60E-06	
42	-0.000556	-7.61E-05	-0.001933
-9.40E-05	-0.000584	-6.63E-06	
43	-0.000556	-7.35E-05	-3.80E-07
-4.43E-05	-0.000514	-6.77E-06	
44	-0.000555	-6.96E-05	-0.003102
-9.43E-05	-0.000389	-7.59E-06	
45	-0.000555	-6.53E-05	-0.006546
-0.000185	-0.000265	-5.72E-06	
46	-0.000554	-6.73E-05	-0.009837
-0.000267	-0.000148	-3.90E-06	
47	-0.000554	-7.19E-05	-0.012466
-0.000333	-4.38E-05	-2.69E-06	
48	-0.000553	-7.45E-05	-0.013974
-0.000374	-4.14E-05	-1.96E-06	
49	-0.000553	-7.49E-05	-0.014078
-0.000395	-0.000221	-2.70E-06	
50	-0.000553	-7.05E-05	-0.012699
-0.000383	-0.000450	-3.79E-06	
51	-0.000552	-6.25E-05	-0.009945
-0.000336	-0.000668	-4.81E-06	
52	-0.000552	-5.15E-05	-0.006093
-0.000259	-0.000662	-5.66E-06	
53	-0.000552	-4.61E-05	-0.001463
-0.000172	-0.000963	-5.77E-06	
54	-0.000552	-4.84E-05	-3.05E-07
-0.000151	-0.000971	-5.75E-06	
55	-0.000528	-7.48E-05	-3.83E-07
-0.000102	-0.000240	-3.27E-06	
56	-0.000528	-5.96E-05	-0.002981
-0.000188	-0.000229	-2.57E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

| JOINT | U1 | U2 | U3 |
|---

80	-0.000532	-3.66E-05	-0.010661
-0.000390	-0.000126	-1.14E-06	
81	-0.000532	-3.92E-05	-0.010671
-0.000390	-0.000223	-1.20E-06	
82	-0.000532	-4.13E-05	-0.009432
-0.000354	-0.000402	-1.65E-06	
83	-0.000532	-4.12E-05	-0.007195
-0.000280	-0.000525	-2.26E-06	
84	-0.000532	-3.95E-05	-0.004479
-0.000184	-0.000567	-2.97E-06	
85	-0.000531	-3.71E-05	-0.001728
-7.73E-05	-0.000530	-3.13E-06	
86	-0.000531	-3.26E-05	-4.85E-07
-1.79E-05	-0.000460	-2.41E-06	
87	-0.000531	-2.61E-05	-0.001745
-6.99E-05	-0.000375	-3.01E-06	
88	-0.000531	-2.64E-05	-0.004531
-0.000172	-0.000256	-2.69E-06	
89	-0.000531	-3.10E-05	-0.007292
-0.000267	-0.000214	-2.60E-06	
90	-0.000531	-4.08E-05	-0.009582
-0.000344	-0.000195	-2.47E-06	
91	-0.000531	-5.10E-05	-0.010874
-0.000388	-0.000144	-2.14E-06	
92	-0.000531	-6.05E-05	-0.010905
-0.000399	-0.000215	-1.69E-06	
93	-0.000531	-6.69E-05	-0.009664
-0.000370	-0.000398	-1.30E-06	
94	-0.000531	-6.93E-05	-0.007400
-0.000301	-0.000526	-1.70E-06	
95	-0.000531	-6.77E-05	-0.004630
-0.000205	-0.000575	-2.68E-06	
96	-0.000531	-6.21E-05	-0.001799
-9.64E-05	-0.000545	-3.25E-06	
97	-0.000531	-5.55E-05	-4.92E-07
-4.42E-05	-0.000480	-2.19E-06	
98	-0.000531	-3.93E-05	-0.002877
-0.000100	-0.000366	-2.40E-06	
99	-0.000532	-2.50E-05	-0.006063
-0.000201	-0.000253	-1.80E-06	
100	-0.000532	-1.97E-05	-0.009108
-0.000298	-0.000145	-1.72E-06	
101	-0.000532	-1.88E-05	-0.011542
-0.000381	-4.66E-05	-1.74E-06	
102	-0.000532	-1.88E-05	-0.012934
-0.000437	-5.06E-05	-1.62E-06	
103	-0.000531	-1.86E-05	-0.013013
-0.000458	-0.000203	-1.45E-06	
104	-0.000531	-1.83E-05	-0.011708
-0.000439	-0.000413	-1.35E-06	
105	-0.000531	-2.30E-05	-0.009144
-0.000376	-0.000615	-1.72E-06	
106	-0.000531	-3.00E-05	-0.005591
-0.000272	-0.000783	-2.73E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 46
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	-0.000530	-4.04E-05	-0.001343
-0.000147	-0.000888	-5.68E-06	
108	-0.000530	-4.40E-05	-3.93E-07
-0.000126	-0.000897	-6.16E-06	
109	-0.000532	-6.46E-05	-1.39E-07
-0.000200	-0.000227	-8.07E-06	
110	-0.000482	-4.85E-05	-0.002463
-0.000263	-0.000217	-7.75E-06	
111	-0.000483	-5.34E-05	-0.004817
-0.000317	-0.000189	-6.74E-06	
112	-0.000483	-7.44E-05	-0.006479
-0.000348	-0.000146	-5.26E-06	
113	-0.000484	-8.94E-05	-0.007222
-0.000350	-8.47E-05	-3.40E-06	
114	-0.000484	-9.29E-05	-0.006960
-0.000325	-0.000205	-2.37E-06	
115	-0.000485	-8.52E-05	-0.005798
-0.000274	-0.000339	-2.37E-06	
116	-0.000485	-6.87E-05	-0.004014
-0.000202	-0.000416	-3.39E-06	
117	-0.000485	-4.75E-05	-0.001961
-0.000120	-0.000424	-4.60E-06	
118	-0.000485	-3.36E-05	-1.80E-07
-9.60E-05	-0.000369	-5.40E-06	
119	-0.000484	-4.05E-05	-0.001437
-0.000143	-0.000308	-5.65E-06	
120	-0.000483	-6.27E-05	-0.003695
-0.000222	-0.000213	-5.58E-06	
121	-0.000482	-8.51E-05	-0.005898
-0.000298	-0.000171	-5.40E-06	
122	-0.000481	-0.000102	-0.007687
-0.000348	-0.000154	-4.85E-06	
123	-0.000480	-0.000110	-0.008683
-0.000368	-0.000112	-3.28E-06	
124	-0.000479	-0.000109	-0.008699
-0.000359	-0.000174	-2.37E-06	
125	-0.000479	-0.000103	-0.007731
-0.000327	-0.000325	-2.76E-06	
126	-0.000479	-8.81E-05	-0.005956
-0.000269	-0.000431	-2.99E-06	
127	-0.000479	-6.73E-05	-0.003751
-0.000190	-0.000473	-3.88E-06	
128	-0.000479	-4.61E-05	-0.001468
-0.000109	-0.000450	-5.02E-06	
129	-0.000479	-3.56E-05	-1.81E-07
-7.82E-05	-0.000400	-5.55E-06	
130	-0.000479	-3.91E-05	-0.001510
-0.000126	-0.000336	-5.79E-06	
131	-0.000480	-6.24E-05	-0.003875
-0.000208	-0.000235	-5.66E-06	
132	-0.000481	-8.43E-05	-0.006191
-0.000287	-0.000180	-5.39E-06	
133	-0.000481	-0.000100	-0.008094
-0.000344	-0.000163	-4.47E-06	
134	-0.000482	-0.000105	-0.009154
-0.000371	-0.000119	-3.04E-06	
135	-0.000483	-0.000107	-0.009162
-0.000371	-0.000175	-2.58E-06	
136	-0.000483	-9.93E-05	-0.008116
-0.000343	-0.000336	-3.08E-06	
137	-0.000484	-8.26E-05	-0.006220
-0.000286	-0.000447	-3.36E-06	
138	-0.000484	-5.94E-05	-0.003902
-0.000206	-0.000488	-4.13E-06	
139	-0.000485	-3.69E-05	-0.001524
-0.000125	-0.000464	-5.20E-06	
140	-0.000485	-1.73E-05	-1.80E-07
-7.62E-05	-0.000414	-5.73E-06	
141	-0.000485	-4.77E-05	-0.001542
-0.000112	-0.000349	-5.98E-06	
142	-0.000485	-6.77E-05	-0.003956
-0.000194	-0.000246	-5.83E-06	
143	-0.000485	-8.64E-05	-0.006319
-0.000275	-0.000205	-5.50E-06	
144	-0.000486	-0.000100	-0.008265
-0.000335	-0.000185	-4.54E-06	
145	-0.000486	-0.000111	-0.009359
-0.000369	-0.000135	-3.10E-06	
146	-0.000486	-0.000114	-0.009385
-0.000377	-0.000163	-2.81E-06	
147	-0.000486	-0.000106	-0.008336
-0.000355	-0.000328	-3.08E-06	
148	-0.000487	-8.79E-05	-0.006413
-0.000301	-0.000445	-3.25E-06	
149	-0.000487	-6.52E-05	-0.004043
-0.000223	-0.000494	-3.76E-06	
150	-0.000487	-5.78E-05	-0.001591
-0.000143	-0.000478	-4.73E-06	
151	-0.000487	-6.16E-05	-1.95E-07
-9.50E-05	-0.000432	-5.28E-06	
152	-0.000487	-7.63E-05	-0.002554
-0.000130	-0.000345	-5.68E-06	
153	-0.000488	-9.57E-05	-0.005327
-0.000221	-0.000244	-5.31E-06	
154	-0.000488	-0.000112	-0.007948
-0.000305	-0.000142	-4.23E-06	
155	-0.000488	-0.000119	-0.010024
-0.000370	-4.81E-05	-2.86E-06	
156	-0.000488	-0.000114	-0.011196
-0.000413	-3.55E-05	-2.20E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 47
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000488	-9.90E-05	-0.011245
-0.000432	-0.000153	-2.70E-06	
158	-0.000488	-7.86E-05	-0.010109
-0.000424	-0.000342	-3.36E-06	
159	-0.000488	-5.07E-05	-0.007889
-0.000389	-0.000524	-4.11E-06	
160	-0.000488	-2.72E-05	-0.004812
-0.000320	-0.000672	-4.90E-06	
161	-0.000487	-3.78E-05	-0.001151
-0.000220	-0.000760	-5.34E-06	
162	-0.000487	-4.28E-05	-1.38E-07
-0.000199	-0.000766	-5.36E-06	
163	-0.000544	-5.63E-05	-9.76E-05
-0.000141	-0.000259	-5.26E-05	
164	-0.000544	-6.30E-05	-0.003139
-0.000203	-0.000332	-4.61E-05	
165	-0.000544	-6.84E-05	-0.006127
-0.000333	-0.000298	-4.64E-05	
166	-0.000543	-7.06E-05	-0.008227
-0.000408	-0.000267	-4.61E-05	
167	-0.000543	-6.97E-05	-0.009134
-0.000427	-0.000249	-4.69E-05	
168	-0.000544	-6.69E-05	-0.008767
-0.000398	-0.000385	-4.86E-05	
169	-0.000544	-6.13E-05	-0.007250
-0.000333	-0.000539	-5.54E-05	
170	-0.000544	-5.24E-05	-0.004965
-0.000247	-0.000629	-6.06E-05	
171	-0.000545	-4.03E-05	-0.002388
-0.000146	-0.000628	-6.24E-05	
172	-0.000546	-2.84E-05	-4.66E-05
-5.45E-05	-0.000520	-5.32E-05	
173	-0.000547	-3.16E-05	-0.001715
-0.000114	-0.000400	-4.74E-05	
174	-0.000548	-4.29E-05	-0.004472
-0.000236	-0.000320	-4.67E-05	
175	-0.000549	-5.21E-05	-0.007199
-0.000335	-0.000277	-4.26E-05	
176	-0.000550	-5.66E-05	-0.009433
-0.000407	-0.000270	-4.26E-05	
177	-0.000551	-5.67E-05	-0.010683
-0.000438	-0.000245	-4.41E-05	
178	-0.000551	-5.29E-05	-0.010699
-0.000431	-0.000350	-5.20E-05	
179	-0.000551	-4.60E-05	-0.009477
-0.000390	-0.000521	-5.25E-05	
180	-0.000551	-3.82E-05	-0.007257
-0.000313	-0.000646	-6.90E-05	
181	-0.000550	-3.05E-05	-0.004525
-0.000216	-0.000687	-7.04E-05	
182	-0.000550	-2.66E-05	-0.001744
-0.000103	-0.000627	-7.05E-05	
183	-0.000549	-2.95E-05	-4.22E-05
-3.76E-05	-0.000511	-4.86E-05	
184	-0.000549	-3.26E-05	-0.001785
-0.000105	-0.000421	-4.62E-05	
185	-0.000549	-4.37E-05	-0.004652
-0.000223	-0.000338	-4.70E-05	
186	-0.000548	-5.37E-05	-0.007502
-0.000323	-0.000284	-4.57E-05	
187	-0.000548	-5.55E-05	-0.009868
-0.000401	-0.000276	-4.66E-05	
188	-0.000548	-5.55E-05	-0.011194
-0.000438	-0.000250	-4.93E-05	
189	-0.000547	-5.94E-05	-0.011204
-0.000438	-0.000356	-5.45E-05	
190	-0.000547	-6.02E-05	-0.009896
-0.000400	-0.000539	-6.62E-05	
191	-0.000547	-5.66E-05	-0.007539
-0.000323	-0.000668	-7.34E-05	
192	-0.000546	-4.72E-05	-0.004687
-0.000223	-0.000706	-7.53E-05	
193	-0.000546	-3.37E-05	-0.001804
-0.000106	-0.000644	-6.50E-05	
194	-0.000545	-2.97E-05	-4.27E-05
-3.54E-05	-0.000526	-5.27E-05	
195	-0.000545	-2.58E-05	-0.001821
-0.000104	-0.000435	-5.01E-05	
196	-0.000545	-3.53E-05	-0.004739
-0.000219	-0.000349	-4.70E-05	
197	-0.000544	-4.68E-05	-0.007638
-0.000319	-0.000307	-4.38E-05	
198	-0.000544	-5.99E-05	-0.010050
-0.000399	-0.000296	-4.18E-05	
199	-0.000544	-7.03E-05	-0.011412
-0.000441	-0.000265	-4.18E-05	
200	-0.000544	-7.73E-05	-0.011443
-0.000448	-0.000349	-4.44E-05	
201	-0.000544	-8.14E-05	-0.010134
-0.000415	-0.000536	-5.21E-05	
202	-0.000543	-8.03E-05	-0.007749
-0.000340	-0.000670	-6.21E-05	
203	-0.000543	-7.06E-05	-0.004844
-0.000238	-0.000715	-6.67E-05	
204	-0.000543	-6.60E-05	-0.001885
-0.000115	-0.000659	-5.74E-05	
205	-0.000543	-5.48E-05	-5.75E-05
-5.41E-05	-0.000556	-4.93E-05	
206	-0.000543	-4.42E-05	-0.002992
-0.000148	-0.000469	-4.83E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 48
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000543	-3.87E-05	-0.006335
-0.000256	-0.000347	-4.31E-05	
208	-0.000543	-3.61E-05	-0.009534
-0.000354	-0.000241	-3.89E-05	
209	-0.000542	-3.80E-05	-0.012107
-0.000438	-0.000152	-3.62E-05	
210	-0.000542	-3.95E-05	-0.013579
-0.000494	-0.000165	-3.91E-05	
211	-0.000542	-4.04E-05	-0.013674
-0.000512	-0.000338	-4.54E-05	
212	-0.000542	-4.15E-05	-0.012309
-0.000487	-0.000554	-5.66E-05	
213	-0.000542	-4.32E-05	-0.009613
-0.000419	-0.000764	-7.00E-05	
214	-0.000542	-3.92E-05	-0.005875
-0.000302	-0.000934	-8.88E-05	
215	-0.000542	-3.67E-05	-0.001405
-0.000142	-0.000977	-6.59E-05	
216	-0.000542	-3.53E-05	-7.92E-05
-0.000124	-0.000937	-7.82E-05	
217	-0.000504	-6.43E-05	-0.000194
-7.41E-05	-0.000245	-4.57E-05	
218	-0.000504	-5.01E-05	-0.002806
-0.000217	-0.000318	-3.92E-05	
219	-0.000505	-4.26E-05	-0.005407
-0.000365	-0.000283	-3.87E-05	
220	-0.000505	-4.04E-05	-0.007252
-0.000426	-0.000252	-3.95E-05	
221	-0.000505	-5.12E-05	-0.008061
-0.000438	-0.000214	-4.14E-05	
222	-0.000506	-5.58E-05	-0.007756
-0.000409	-0.000360	-4.58E-05	
223	-0.000506	-5.37E-05	-0.006438
-0.000342	-0.000497	-5.31E-05	
224	-0.000506	-4.51E-05	-0.004439
-0.000245	-0.000574	-5.97E-05	
225	-0.000507	-3.40E-05	-0.002170
-0.000118	-0.000573	-6.12E-05	
226	-0.000507	-2.99E-05	-0.000111
-2.24E-05	-0.000478	-5.19E-05	
227	-0.000507	-3.11E-05	-0.001582
-0.000104	-0.000372	-4.61E-05	
228	-0.000507	-4.13E-05	-0.004041
-0.000245	-0.000308	-4.97E-05	
229	-0.000507	-5.36E-05	-0.006459
-0.000356	-0.000267	-4.96E-05	
230	-0.000507	-6.29E-05	-0.008441
-0.000429	-0.000258	-4.97E-05	
231	-0.000506	-6.67E-05	-0.009548
-0.000458	-0.000233	-4.97E-05	
232	-0.000506	-6.38E-05	-0.009564
-0.000449	-0.000324	-5.13E-05	
233	-0.000506	-5.73E-05	-0.008486
-0.000409	-0.000479	-5.65E-05	
234	-0.000506	-4.75E-05	-0.006518
-0.000329	-0.000591	-6.04E-05	
235	-0.000506	-3.62E-05	-0.004095
-0.000218	-0.000627	-5.50E-05	
236	-0.000507	-3.00E-05	-0.001612
-8.05E-05	-0.000575	-4.81E-05	
237	-0.000506	-2.94E-05	-0.000102
-1.41E-05	-0.000471	-3.70E-05	
238	-0.000506	-3.26E-05	-0.001652
-8.94E-05	-0.000396	-3.31E-05	
239	-0.000506	-4.09E-05	-0.004218
-0.000232	-0.000327	-3.56E-05	
240	-0.000506	-5.24E-05	-0.006754
-0.000347	-0.000275	-3.05E-05	
241	-0.000506	-6.05E-05	-0.008857
-0.000427	-0.000266	-3.39E-05	
242	-0.000506	-6.23E-05	-0.010033
-0.000463	-0.000241	-4.25E-05	
243	-0.000507	-6.38E-05	-0.010042
-0.000463	-0.000325	-5.27E-05	
244	-0.000507	-6.06E-05	-0.008882
-0.000428	-0.000491	-6.37E-05	
245	-0.000507	-5.17E-05	-0.006786
-0.000348	-0.000608	-7.18E-05	
246	-0.000507	-3.98E-05	-0.004248
-0.000232	-0.000644	-7.52E-05	
247	-0.000507	-3.41E-05	-0.001667
-8.98E-05	-0.000591	-6.53E-05	
248	-0.000507	-3.04E-05	-0.000103
-1.34E-05	-0.000487	-5.33E-05	
249	-0.000507	-2.96E-05	-0.001685
-8.30E-05	-0.000410	-5.21E-05	
250	-0.000508	-3.75E-05	-0.004300
-0.000222	-0.000339	-4.91E-05	
251	-0.000508	-5.07E-05	-0.006884
-0.000337	-0.000298	-4.34E-05	
252	-0.000508	-6.11E-05	-0.009031
-0.000420	-0.000288	-3.97E-05	
253	-0.000508	-6.67E-05	-0.010243
-0.000460	-0.000257	-3.75E-05	
254	-0.000508	-7.26E-05	-0.010270
-0.000469	-0.000315	-4.05E-05	
255	-0.000508	-6.97E-05	-0.009107
-0.000440	-0.000484	-4.85E-05	
256	-0.000508	-6.23E-05	-0.006983
-0.000362	-0.000607	-5.75E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 49
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000508	-6.07E-05	-0.004391
-0.000248	-0.000651	-6.20E-05	
258	-0.000508	-5.64E-05	-0.001732
-0.000104	-0.000608	-5.31E-05	
259	-0.000508	-5.33E-05	-0.000125
-2.27E-05	-0.000418	-4.55E-05	
260	-0.000509	-5.19E-05	-0.002770
-0.000121	-0.000448	-4.27E-05	
261	-0.000509	-5.45E-05	-0.005761
-0.000256	-0.000340	-3.77E-05	
262	-0.000509	-5.84E-05	-0.008609
-0.000368	-0.000243	-3.48E-05	
263	-0.000509	-6.03E-05	-0.010894
-0.000454	-0.000162	-3.57E-05	
264	-0.000509	-5.75E-05	-0.012192
-0.000509	-0.000171	-3.76E-05	
265	-0.000509	-4.73E-05	-0.012255
-0.000529	-0.000304	-4.24E-05	
266	-0.000509	-3.13E-05	-0.011021
-0.000511	-0.000497	-5.35E-05	
267	-0.000509	-2.07E-05	-0.008602
-0.000452	-0.000687	-6.98E-05	
268	-0.000509	-2.30E-05	-0.005274
-0.000331	-0.000839	-8.63E-05	
269	-0.000508	-3.45E-05	-0.001313
-0.000220	-0.000879	-8.07E-05	
270	-0.000508	-3.86E-05	-0.000167
-7.54E-05	-0.000843	-7.45E-05	
271	-0.000685	-7.89E-06	.000000
-0.000126	-0.000250	-6.47E-06	
272	-0.001043	-4.11E-05	.000000
-5.55E-05	-0.000443	-7.16E-06	
273	-0.000743	-6.35E-05	.000000
-3.76E-05	-0.000474	-6.60E-06	
274	-0.000765	-3.88E-06	.000000
-3.23E-05	-0.000492	-7.23E-06	
275	-0.000618	-1.70E-05	.000000
-7.64E-05	-0.000510	-6.77E-06	
276	-0.000578	-5.70E-06	.000000
-0.000134	-0.000973	-5.75E-06	
277	-0.000632	-3.57E-05	.000000
-7.65E-05	-0.000235	-3.27E-06	
278	-0.000982	-3.89E-05	.000000
-4.23E-05	-0.000412	-2.50E-06	
279	.000000	.000000	.000000
-2.53E-05	-0.000443	-1.94E-06	
280	-0.000729	-3.68E-06	.000000
-2.07E-05	-0.000460	-2.41E-06	
281	-0.000567	-1.27E-05	.000000
-2.40E-05	-0.000482	-2.19E-06	
282	-0.000556	-2.68E-05	.000000
-4.31E-05	-0.000904	-6.16E-06	
283	-0.000614	-8.01E-05	.000000
-0.000175	-0.000205	-8.07E-06	
284	-0.000898	-2.05E-05	.000000
-0.000155	-0.000337	-5.40E-06	
285	-3.26E-06	-0.000110	.000000
-8.20E-05	-0.000397	-5.55E-06	
286	-0.000630	-0.000236	.000000
-4.81E-05	-0.000421	-5.73E-06	
287	-0.000493	-0.000198	.000000
-4.88E-05	-0.000439	-5.28E-06	
288	-0.000497	-0.000184	.000000
-8.50E-05	-0.000784	-5.36E-06	

COMB DB-G2-1 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000205	1.83E-05	1.33E-08
4.13E-05	0.000264	9.29E-06	
2	0.000204	2.66E-05	0.000401
6.40E-05	0.000246	7.07E-06	
3	0.000204	3.51E-05	0.000810
7.30E-05	0.000195	2.85E-06	
4	0.000204	3.91E-05	0.001153
7.23E-05	0.000126	7.04E-07	
5	0.000204	3.82E-05	0.001396
7.34E-05	5.25E-05	4.23E-07	
6	0.000204	3.34E-05	0.001506
7.98E-05	3.02E-06	2.11E-07	
7	0.000205	2.59E-05	0.001449
8.55E-05	3.19E-05	3.03E-07	
8	0.000205	1.87E-05	0.001194
8.14E-05	7.42E-05	4.57E-07	
9	0.000205	1.18E-05	0.000713
6.22E-05	0.000120	7.13E-07	
10	0.000205	9.45E-06	1.83E-08
3.43E-05	0.000166	1.67E-06	
11	0.000205	7.61E-06	0.000503
3.66E-05	0.000193	3.29E-06	
12	0.000206	9.73E-06	0.001038
5.80E-05	0.000208	2.96E-06	
13	0.000206	1.98E-05	0.001360
6.78E-05	0.000192	1.87E-06	
14	0.000206	2.53E-05	0.001498
6.94E-05	0.000147	1.21E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 50
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
15	0.000207	2.67E-05	0.001469
6.96E-05	8.12E-05	7.61E-07	
16	0.000207	2.63E-05	0.001593
7.30E-05	4.31E-05	5.55E-07	
17	0.000207	2.33E-05	0.001626
7.92E-05	5.67E-05	6.72E-07	
18	0.000207	1.78E-05	0.001477
8.09E-05	6.20E-05	7.12E-07	
19	0.000208	8.60E-06	0.001127
7.09E-05	9.29E-05	6.76E-07	
20	0.000208	1.07E-06	0.000547
4.69E-05	0.000140	8.07E-07	
21	0.000208	2.53E-06	1.90E-08
2.74E-05	0.000173	1.49E-06	
22	0.000207	6.75E-06	0.000537
4.03E-05	0.000200	3.01E-06	
23	0.000207	1.69E-05	0.001111
6.36E-05	0.000216	2.81E-06	
24	0.000206	2.72E-05	0.001464
7.40E-05	0.000201	1.90E-06	
25	0.000206	3.48E-05	0.001624
7.44E-05	0.000153	1.29E-06	
26	0.000205	3.88E-05	0.001597
7.17E-05	8.38E-05	8.11E-07	
27	0.000205	3.90E-05	0.001663
7.18E-05	4.61E-05	5.07E-07	
28	0.000205	3.53E-05	0.001691
7.49E-05	6.14E-05	6.20E-07	
29	0.000204	2.79E-05	0.001526
7.47E-05	6.71E-05	6.63E-07	
30	0.000204	1.75E-05	0.001158
6.44E-05	9.59E-05	6.70E-07	
31	0.000204	7.24E-06	0.000560
4.10E-05	0.000144	9.66E-07	
32	0.000203	2.64E-06	2.11E-08
2.69E-05	0.000177	1.79E-06	
33	0.000203	1.59E-06	0.000556
4.63E-05	0.000203	3.12E-06	
34	0.000203	1.04E-05	0.001152
7.04E-05	0.000218	3.02E-06	
35	0.000203	2.17E-05	0.001521
8.06E-05	0.000202	2.35E-06	
36	0.000202	3.19E-05	0.001690
7.92E-05	0.000155	1.77E-06	
37	0.000202	3.81E-05	0.001674
7.33E-05	8.40E-05	1.13E-06	
38	0.000202	4.08E-05	0.001874
7.02E-05	4.64E-05	5.91E-07	
39	0.000202	3.96E-05	0.001904
7.03E-05	6.28E-05	3.44E-07	
40	0.000202	3.45E-05	0.001718
6.89E-05	6.94E-05	4.60E-07	
41	0.000202	2.63E-05	0.001303
5.92E-05	0.000107	5.57E-07	
42	0.000202	1.71E-05	0.000630
3.78E-05	0.000161	8.54E-07	
43	0.000202	1.17E-05	1.77E-08
3.36E-05	0.000198	1.97E-06	
44	0.000202	6.14E-06	0.000805
6.13E-05	0.000237	3.96E-06	
45	0.000202	1.16E-05	0.001386
8.01E-05	0.000245	3.63E-06	
46	0.000202	2.32E-05	0.001743
8.26E-05	0.000220	3.11E-06	
47	0.000201	3.64E-05	0.001903
7.34E-05	0.000164	2.55E-06	
48	0.000201	4.70E-05	0.001886
6.95E-05	8.89E-05	1.91E-06	
49	0.000201	5.37E-05	0.001723
6.50E-05	4.35E-05	1.18E-06	
50	0.000201	5.61E-05	0.001441
6.14E-05	6.45E-05	4.40E-07	
51	0.000201	5.37E-05	0.001068
5.99E-05	8.02E-05	1.21E-07	
52	0.000201	4.70E-05	0.000630
5.68E-05	9.15E-05	1.43E-07	
53	0.000201	3.79E-05	0.000148
3.60E-05	9.79E-05	3.42E-07	
54	0.000201	3.54E-05	1.10E-08
2.84E-05	9.84E-05	3.72E-07	
55	0.000193	6.04E-05	1.03E-08
1.06E-05	0.000252	4.12E-07	
56	0.000193	3.81E-05	0.000371
1.47E-05	0.000229	3.91E-07	
57	0.000193	3.03E-05	0.000750
1.91E-05	0.000177	3.81E-07	
58	0.000193	3.00E-05	0.001065
2.24E-05	0.000112	3.37E-07	
59	0.000193	2.80E-05	0.001287
2.42E-05	4.69E-05	3.09E-07	
60	0.000193	2.34E-05	0.001382
2.41E-05	3.57E-06	3.28E-07	
61	0.000193	1.71E-05	0.001324
2.14E-05	3.09E-05	6.11E-07	
62	0.000193	1.72E-05	0.001089
1.48E-05	6.84E-05	1.55E-06	
63	0.000194	2.55E-05	0.000654

2.46E-05	6.30E-05	7.08E-07	
84	0.000193	1.94E-05	0.001063
2.05E-05	8.83E-05	1.67E-06	
85	0.000193	2.66E-05	0.000517
1.14E-05	0.000132	2.13E-06	
86	0.000193	2.99E-05	1.90E-08
2.84E-06	0.000166	1.13E-06	
87	0.000193	2.52E-05	0.000513
5.45E-06	0.000196	9.97E-07	
88	0.000193	1.63E-05	0.001057
1.66E-05	0.000213	1.34E-06	
89	0.000193	1.39E-05	0.001398
2.25E-05	0.000202	1.56E-06	
90	0.000193	2.00E-05	0.001562
2.44E-05	0.000160	1.47E-06	
91	0.000193	2.57E-05	0.001569
2.37E-05	9.67E-05	1.18E-06	
92	0.000192	2.90E-05	0.001750
2.33E-05	4.22E-05	7.92E-07	
93	0.000192	2.94E-05	0.001769
2.76E-05	5.84E-05	4.87E-07	
94	0.000192	2.73E-05	0.001586
2.96E-05	6.52E-05	7.91E-07	
95	0.000192	2.44E-05	0.001199
2.83E-05	9.88E-05	1.81E-06	
96	0.000192	3.02E-05	0.000581
2.20E-05	0.000148	2.41E-06	
97	0.000192	3.41E-05	1.46E-08
1.46E-05	0.000186	1.30E-06	
98	0.000192	2.65E-05	0.000741
5.26E-06	0.000228	1.16E-06	
99	0.000193	1.72E-05	0.001272
1.44E-05	0.000241	1.71E-06	
100	0.000193	1.33E-05	0.001606
2.17E-05	0.000221	2.08E-06	
101	0.000193	1.92E-05	0.001762
2.53E-05	0.000174	2.08E-06	
102	0.000193	2.87E-05	0.001755
2.65E-05	0.000107	1.83E-06	
103	0.000193	3.61E-05	0.001609
2.61E-05	4.05E-05	1.42E-06	
104	0.000193	4.06E-05	0.001349
2.43E-05	6.01E-05	9.11E-07	
105	0.000192	4.20E-05	0.001001
2.16E-05	7.54E-05	8.67E-07	
106	0.000192	4.13E-05	0.000591
1.79E-05	8.63E-05	2.15E-06	
107	0.000192	4.65E-05	0.000139
1.38E-05	9.24E-05	4.23E-06	
108	0.000192	5.30E-05	9.29E-09
1.31E-05	9.29E-05	4.56E-06	
109	0.000163	4.81E-05	1.30E-08
1.84E-05	0.000171	5.31E-07	
110	0.000164	3.01E-05	0.000343
1.55E-05	0.000155	5.33E-07	
111	0.000164	1.53E-05	0.000692
1.82E-05	0.000118	5.31E-07	
112	0.000164	9.54E-06	0.000983
2.00E-05	6.77E-05	5.31E-07	
113	0.000164	9.48E-06	0.001184
2.13E-05	1.70E-05	5.59E-07	
114	0.000164	9.72E-06	0.001265
2.19E-05	2.08E-06	7.37E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
52

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000164	1.32E-05	0.001198
2.20E-05	3.13E-05	1.16E-06	
116	0.000163	1.79E-05	0.000967
1.99E-05	6.58E-05	1.56E-06	
117	0.000163	2.22E-05	0.000561
1.51E-05	9.91E-05	1.63E-06	
118	0.000163	2.38E-05	1.78E-08
1.47E-05	0.000126	1.05E-06	
119	0.000163	2.29E-05	0.000386
1.96E-05	0.000139	4.77E-07	
120	0.000163	1.89E-05	0.000825
2.58E-05	0.000143	2.70E-07	
121	0.000163	1.41E-05	0.001112
2.64E-05	0.000127	2.95E-07	
122	0.000163	1.05E-05	0.001250
2.35E-05	9.05E-05	3.09E-07	
123	0.000163	8.95E-06	0.001245
1.94E-05	4.14E-05	5.59E-07	
124	0.000163	9.89E-06	0.001370
2.08E-05	3.51E-05	1.02E-06	
125	0.000162	1.21E-05	0.001380
2.25E-05	4.82E-05	1.39E-06	
126	0.000162	1.52E-05	0.001231
2.30E-05	5.38E-05	1.73E-06	
127	0.000162	1.89E-05	0.000917
2.08E-05	8.16E-05	1.94E-06	
128	0.000162	2.21E-05	0.000432
1.50E-05	0.000115	1.71E-06	
129	0.000162	2.26E-05	1.82E-08
1.36E-05	0.000134	1.19E-06	
130	0.000162	2.12E-05	0.000422
1.70E-05	0.000148	5.68E-07	
131	0.000162	1.76E-05	0.000901
2.34E-05	0.000154	2.74E-07	
132	0.000163	1.31E-05	0.001219
2.48E-05	0.000140	2.76E-07	
133	0.000164	9.61E-06	0.001377
2.31E-05	0.000103	2.64E-07	
134	0.000164	7.29E-06	0.001374
2.01E-05	5.01E-05	6.65E-07	
135	0.000164	7.39E-06	0.001435
2.06E-05	3.82E-05	1.15E-06	
136	0.000165	9.14E-06	0.001439
2.36E-05	5.39E-05	1.52E-06	
137	0.000165	1.27E-05	0.001275
2.52E-05	5.91E-05	1.80E-06	
138	0.000166	1.71E-05	0.000944
2.36E-05	8.44E-05	1.96E-06	
139	0.000166	2.12E-05	0.000443
1.70E-05	0.000118	1.66E-06	
140	0.000166	2.26E-05	1.95E-08
1.36E-05	0.000138	1.10E-06	
141	0.000166	2.24E-05	0.000439
1.53E-05	0.000153	5.24E-07	
142	0.000167	1.92E-05	0.000937
2.15E-05	0.000161	2.53E-07	
143	0.000167	1.50E-05	0.001269
2.38E-05	0.000148	2.47E-07	
144	0.000167	1.16E-05	0.001436
2.31E-05	0.000112	2.94E-07	
145	0.000167	8.91E-06	0.001471
2.12E-05	5.82E-05	1.00E-06	
146	0.000167	7.63E-06	0.001632
2.04E-05	3.84E-05	1.58E-06	
147	0.000167	8.89E-06	0.001637
2.45E-05	5.42E-05	1.88E-06	
148	0.000167	1.27E-05	0.001451
2.72E-05	6.11E-05	2.08E-06	
149	0.000167	1.81E-05	0.001076
2.62E-05	9.51E-05	2.11E-06	
150	0.000167	2.34E-05	0.000506
1.96E-05	0.000134	1.74E-06	
151	0.000167	2.57E-05	1.79E-08
1.49E-05	0.000158	1.16E-06	
152	0.000168	2.57E-05	0.000646
1.57E-05	0.000183	4.35E-07	
153	0.000168	2.29E-05	0.001143
2.08E-05	0.000188	2.82E-07	
154	0.000168	1.96E-05	0.001469
2.32E-05	0.000169	2.80E-07	
155	0.000168	1.62E-05	0.001628
2.36E-05	0.000127	7.14E-07	
156	0.000168	1.31E-05	0.001632
2.36E-05	6.39E-05	1.48E-06	
157	0.000168	1.02E-05	0.001501
2.30E-05	3.66E-05	2.05E-06	
158	0.000168	8.08E-06	0.001260
2.18E-05	5.63E-05	2.50E-06	
159	0.000168	1.16E-05	0.000936
1.98E-05	7.09E-05	2.93E-06	
160	0.000168	2.19E-05	0.000552
1.70E-05	8.12E-05	3.52E-06	
161	0.000168	3.77E-05	0.000130
1.42E-05	8.67E-05	3.97E-06	
162	0.000168	4.29E-05	1.26E-08
1.49E-05	8.70E-05	3.98E-06	
163	0.000199	2.39E-05	5.04E-06
1.50E-05	0.000532	4.66E-05	
164	0.000199	3.25E-05	0.000384
4.95E-05	0.000421	3.37E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
53

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000199	4.18E-05	0.000779
6.12E-05	0.000374	2.93E-05	
166	0.000199	4.67E-05	0.001109
5.94E-05	0.000314	2.25E-05	
167	0.000199	4.58E-05	0.001343
6.10E-05	0.000247	1.52E-05	
168	0.000199	4.04E-05	0.001447
6.57E-05	0.000190	1.17E-05	
169	0.000199	3.06E-05	0.001390
6.89E-05	0.000188	1.11E-05	
170	0.000199	2.06E-05	0.001145
6.66E-05	0.000211	1.41E-05	
171	0.000199	1.28E-05	0.000683
5.09E-05	0.000253	1.87E-05	
172	0.000199	1.03E-05	1.88E-07
2.42E-05	0.000252	2.04E-05	
173	0.000200	1.07E-05	0.000479
2.69E-05	0.000333	2.61E-05	
174	0.000200	1.76E-05	0.000994
5.10E-05	0.000382	3.17E-05	
175	0.000200	2.37E-05	0.001304
6.02E-05	0.000373	3.12E-05	
176	0.000200	3.09E-05	0.001439
6.03E-05	0.000331	2.75E-05	
177	0.000201	3.40E-05	0.001414
5.78E-05	0.000273	2.11E-05	
178	0.000201	3.32E-05	0.001539
6.08E-05	0.000219	1.51E-05	
179	0.000201	2.82E-05	0.001568
6.58E-05	0.000207	1.40E-05	
180	0.000201	1.98E-05	0.001422
6.63E-05	0.000199	1.40E-05	
181	0.000201	1.42E-05	0.001084
5.59E-05	0.000218	1.53E-05	
182	0.000201	7.57E-06	0.000524
2.76E-05	0.000205	1.46E-05	
183	0.000201	9.02E-06	1.85E-07
1.02E-05	0.000243	1.62E-05	
184	0.000201	1.35E-05	0.000514
2.67E-05	0.000340	2.25E-05	
185	0.000200	2.11E-05	0.001068
5.31E-05	0.000391	2.64E-05	
186	0.000200	2.18E-05	0.001410
6.31E-05	0.000384	2.53E-05	
187	0.000200	4.09E-05	0.001565
6.32E-05	0.000340	2.12E-05	
188	0.000200	4.57E-05	0.001543
5.94E-05	0.000278	1.51E-05	
189	0.000199	4.60E-05	0.001607
5.98E-05	0.000222	1.14E-05	
190	0.000199	4.16E-05	0.001632
6.38E-05	0.000209	1.10E-05	
191	0.000199	3.27E-05	0.001470
6.38E-05	0.000201	1.11E-05	
192	0.000199	2.16E-05	0.001115
5.38E-05	0.000220	1.31E-05	
193	0.000198	1.37E-05	0.000537
2.71E-05	0.000208	1.43E-05	
194	0.000198	8.99E-06	1.72E-07
9.50E-06	0.000247	1.71E-05	
195	0.000198	8.21E-06	0.000532
2.79E-05	0.000343	2.45E-05	
196	0.000198	1.60E-05	0.001108
5.61E-05	0.000394	2.97E-05	
197	0.000198	2.53E-05	0.001465
6.65E-05	0.000388	2.88E-05	
198	0.000198	3.69E-05	0.001630
6.62E-05	0.000344	2.43E-05	
199	0.000197	4.48E-05	0.001623
6.11E-05	0.000281	1.70E-05	
200	0.000197	4.80E-05	0.001816
5.87E-05	0.000224	1.19E-05	
201	0.000197	4.65E-05	0.001842
6.17E-05	0.000211	1.02E-05	
202	0.000197	4.00E-05	0.001659
6.16E-05	0.000203	9.94E-06	
203	0.000197	3.02E-05	0.001258
5.24E-05	0.000232	1.17E-05	
204	0.000197	1.99E-05	0.000609
2.76E-05	0.000226	1.35E-05	
205	0.000197	1.54E-05	4.89E-06
2.34E-05	0.000319	1.93E-05	
206	0.000197	1.19E-05	0.000769
4.99E-05	0.000402	2.80E-05	
207	0.000197	1.48E-05	0.001331
6.50E-05	0.000421	3.03E-05	
208	0.000197	2.29E-05	0.001678
6.89E-05	0.000404	2.89E-05	
209	0.000197	3.79E-05	0.001835
6.43E-05	0.000353	2.39E-05	
210	0.000197	5.02E-05	0.001822
5.64E-05	0.000287	1.63E-05	
211	0.000197	5.80E-05	0.001667
5.07E-05	0.000225	1.10E-05	
212	0.000197	6.10E-05	0.001395
4.98E-05	0.000212	1.02E-05	
213	0.000197	5.82E-05	0.001035
5.26E-05	0.000201	9.92E-06	
214	0.000197	5.00E-05	0.000610
5.21E-05	0.000191	9.09E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
54

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000197	3.94E-05	0.000144
1.26E-05	9.51E-05	6.19E-06	
216	0.000197	3.57E-05	3.82E-06
1.18E-05	9.57E-05	7.82E-06	
217	0.000178	5.00E-05	6.87E-05
2.16E-05	0.000219	2.77E-05	
218	0.000178	3.06E-05	0.000359
1.40E-05	0.000193	2.04E-05	
219	0.000178	1.77E-05	0.000721
1.88E-05	0.000145	1.66E-05	
220	0.000178	1.20E-05	0.001022
2.21E-05	8.62E-05	1.13E-05	
221	0.000178	1.14E-05	0.001232
2.39E-05	2.90E-05	1.04E-05	
222	0.000178	1.12E-05	0.001319
2.48E-05	1.65E-06	1.15E-05	
223	0.000178	1.15E-05	0.001255
2.66E-05	3.19E-05	1.29E-05	
224	0.000178	1.51E-05	0.001021
3.02E-05	6.84E-05	1.48E-05	
225	0.000178	2.10E-05	0.000599
3.02E-05	0.000107	1.74E-05	
226	0.000178	2.53E-05	4.31E-05
2.52E-05	0.000143	1.95E-05	
227	0.000178	2.23E-05	0.000416
4.02E-05	0.000162	2.17E-05	
228	0.000178	1.59E-05	0.000878
4.00E-05	0.000170	2.52E-05	
229	0.000178	1.12E-05	0.001170
3.25E-05	0.000153	2.44E-05	
230	0.000178	8.65E-06	0.001306
2.62E-05	0.000113	2.18E-05	
231	0.000178	7.74E-06	0.001296
2.17E-05	5.88E-05	1.81E-05	
232	0.000178	7.82E-06	0.001421
2.30E-05	3.71E-05	1.43E-05	
233	0.000178	9.09E-06	0.001436
2.53E-05	5.02E-05	1.06E-05	
234	0.000178	1.14E-05	0.001289
2.88E-05	5.59E-05	7.11E-06	
235	0.000178	1.58E-05	0.000969
3.32E-05	8.45E-05	5.06E-06	
236	0.000178	2.17E-05	0.000460
2.94E-05	0.000124	5.25E-06	
237	0.000178	2.39E-05	3.99E-05
1.73E-05	0.000149	6.97E-06	
238	0.000178	2.11E-05	0.000451
3.49E-05	0.000170	9.80E-06	
239	0.000178	1.54E-05	0.000954
3.68E-05	0.000178	1.25E-05	
240	0.000178	1.10E-05	0.001276
3.10E-05	0.000168	1.28E-05	
241	0.000179	8.85E-06	0.001433
2.60E-05	0.000127	1.18E-05	
242	0.000179	8.27E-06	0.001425
2.21E-05	6.88E-05	1.39E-05	
243	0.000179	8.61E-06	0.001487
2.27E-05	4.01E-05	1.55E-05	
244	0.000179	9.62E-06	0.001497
2.65E-05	5.50E-05	1.66E-05	
245	0.000179	1.11E-05	0.001334
3.15E-05	6.11E-05	1.68E-05	
246	0.000179	1.54E-05	0.000998
3.73E-05	8.65E-05	1.66E-05	
247	0.000179	2.12E-05	0.000472
3.50E-05	0.000126	1.48E-05	
248	0.000179	2.40E-05	4.00E-05
1.66E-05	0.000152	1.49E-05	
249	0.000179	2.17E-05	0.000468
3.05E-05	0.000174	1.16E-05	
250	0.000179	1.57E-05	0.000991
3.43E-05	0.000188	2.05E-05	
251	0.000179	1.11E-05	0.001328
2.97E-05	0.000176	1.89E-05	
252	0.000179	8.51E-06	0.001494
2.60E-05	0.000136	1.45E-05	
253	0.000179	7.16E-06	0.001516
2.35E-05	7.76E-05	1.02E-05	
254	0.000179	8.33E-06	0.001686
2.27E-05	4.03E-05	9.51E-06	
255	0.000179	1.00E-05	0.001696
2.82E-05	5.62E-05	9.02E-06	
256	0.000180	1.29E-05	0.001510
3.46E-05	6.32E-05	8.75E-06	
257	0.000180	1.76E-05	0.001127
4.18E-05	9.67E-05	1.09E-05	
258	0.000180	2.41E-05	0.000530
4.17E-05	0.000141	1.39E-05	
259	0.000180	2.74E-05	4.38E-05
2.65E-05	0.000171	1.71E-05	
260	0.000180	2.41E-05	0.000688
3.06E-05	0.000205	2.22E-05	
261	0.000180	1.85E-05	0.001202
3.06E-05	0.000215	2.26E-05	
262	0.000180	1.50E-05	0.001533
2.73E-05	0.000197	2.00E-05	
263	0.000180	1.25E-05	0.001691
2.61E-05	0.000152	1.50E-05	
264	0.000180	1.04E-05	0.001690
2.61E-05	8.97E-05	1.05E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
55

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000180	1.17E-05	0.001552
2.55E-05	3.81E-05	1.00E-05	
266	0.000180	1.51E-05	0.001303
2.39E-05	5.81E-05	1.01E-05	
267	0.000180	1.95E-05	0.000968
2.11E-05	7.31E-05	1.04E-05	
268	0.000180	2.68E-05	0.000571
1.72E-05	8.37E-05	1.13E-05	
269	0.000180	3.94E-05	0.000135
1.16E-05	8.98E-05	7.84E-06	
270	0.000180	4.43E-05	5.42E-05
1.36E-05	9.05E-05	9.61E-06	
271	0.000176	3.99E-06	.000000
4.73E-05	0.000263	9.29E-06	
272	0.000263	2.07E-05	.000000
3.83E-05	0.000164	1.67E-06	
273	0.000172	.000000	.000000
3.00E-05	0.000172	1.49E-06	
274	0.000388	9.67E-07	.000000
2.78E-05	0.000176	1.79E-06	
275	0.000180	7.51E-06	.000000
4.45E-05	0.000196	1.97E-06	
276	0.000404	3.97E-06	.000000
2.84E-05	9.89E-05	3.72E-07	
277	0.000164	1.86E-05	.000000
2.40E-05	0.000253	4.12E-07	
278	0.000248	1.94E-05	.000000
1.14E-05	0.000155	9.21E-07	
279	.000000	.000000	.000000
5.09E-06	0.000162	8.82E-07	
280	0.000364	9.22E-07	.000000
3.95E-06	0.000166	1.13E-06	
281	0.000163	3.65E-06	.000000
6.39E-06	0.000186	1.30E-06	
282	0.000377	1.82E-05	.000000
4.11E-06	9.36E-05	4.56E-06	
283	0.000142	4.41E-05	.000000
4.39E-05	0.000171	5.31E-07	
284	0.000216	9.01E-06	.000000
3.55E-05	0.000122	1.05E-06	
285	1.12E-06	3.79E-05	.000000
1.75E-05	0.000134	1.19E-06	
286	0.000307	7.56E-05	.000000
9.60E-22	0.000196	1.10E-06	
287	0.000124	5.16E-05	.000000
1.54E-06	0.000158	1.16E-06	
288	0.000289	7.84E-05	.000000
8.33E-06	8.85E-05	3.98E-06	

COMB DB-G2-1 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000200	-4.73E-05	-6.88E-08
-1.93E-05	-8.95E-05	-6.21E-07	
2	-0.000200	-2.05E-05	-0.001152
-1.67E-05	-8.55E-05	-5.22E-07	
3	-0.000199	-2.17E-05	-0.002244
-1.59E-05	-7.45E-05	-3.42E-07	
4	-0.000200	-2.30E-05	-0.003005
-1.23E-05	-5.79E-05	-2.23E-07	
5	-0.000200	-2.35E-05	-0.003334
-5.66E-06	-3.46E-05	-9.92E-07	
6	-0.000200	-2.33E-05	-0.003200
-3.53E-06	-8.41E-05	-1.47E-06	
7	-0.000200	-2.24E-05	-0.002647
-2.27E-06	-0.000145	-2.08E-06	
8	-0.000200	-2.13E-05	-0.001816
-1.50E-06	-0.000182	-2.85E-06	
9	-0.000200	-2.72E-05	-0.000876
-1.78E-06	-0.000185	-1.58E-06	
10	-0.000201	-3.33E-05	-8.68E-08
-7.51E-06	-0.000158	-1.59E-06	
11	-0.000201	-2.95E-05	-0.000629
-9.76E-06	-0.000128	-8.36E-07	
12	-0.000202	-2.05E-05	-0.001637
-1.16E-05	-8.39E-05	-5.41E-07	
13	-0.000202	-1.88E-05	-0.002631
-1.37E-05	-6.63E-05	-6.66E-07	
14	-0.000203	-1.79E-05	-0.003440
-1.31E-05	-6.04E-05	-6.25E-07	
15	-0.000203	-1.65E-05	-0.003894
-9.18E-06	-4.53E-05	-5.15E-07	
16	-0.000204	-1.42E-05	-0.003900
-5.46E-06	-7.60E-05	-7.96E-07	
17	-0.000204	-1.11E-05	-0.003455
-6.86E-06	-0.000142	-1.23E-06	
18	-0.000204	-9.54E-06	-0.002651
-5.71E-06	-0.000189	-1.84E-06	
19	-0.000203	-1.31E-05	-0.001655
-3.09E-06	-0.000207	-2.80E-06	
20	-0.000203	-2.61E-05	-0.000639
-4.87E-07	-0.000194	-3.01E-06	
21	-0.000203	-3.28E-05	-8.59E-08
-2.11E-06	-0.000169	-1.46E-06	
22	-0.000203	-2.98E-05	-0.000654
-4.62E-06	-0.000138	-8.28E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
56

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	-0.000202	-2.26E-05	-0.001701
-8.15E-06	-9.20E-05	-7.27E-07	
24	-0.000202	-2.11E-05	-0.002740
-1.06E-05	-6.99E-05	-7.64E-07	
25	-0.000202	-2.04E-05	-0.003596
-1.07E-05	-6.41E-05	-7.21E-07	
26	-0.000201	-1.91E-05	-0.004078
-8.07E-06	-4.82E-05	-5.93E-07	
27	-0.000201	-2.10E-05	-0.004082
-7.85E-06	-8.25E-05	-7.73E-07	
28	-0.000201	-2.24E-05	-0.003606
-1.06E-05	-0.000152	-1.24E-06	
29	-0.000200	-2.30E-05	-0.002754
-1.03E-05	-0.000200	-1.90E-06	
30	-0.000200	-2.38E-05	-0.001714
-7.77E-06	-0.000216	-2.85E-06	
31	-0.000200	-3.01E-05	-0.000661
-4.16E-06	-0.000202	-3.07E-06	
32	-0.000200	-3.28E-05	-8.61E-08
-1.60E-06	-0.000176	-1.68E-06	
33	-0.000200	-2.57E-05	-0.000667
-8.34E-07	-0.000143	-1.16E-06	
34	-0.000199	-1.48E-05	-0.001733
-3.86E-06	-9.64E-05	-1.15E-06	
35	-0.000199	-1.37E-05	-0.002789
-6.79E-06	-7.92E-05	-1.22E-06	
36	-0.000199	-1.94E-05	-0.003662
-8.04E-06	-7.26E-05	-1.18E-06	
37	-0.000199	-2.49E-05	-0.004156
-6.58E-06	-5.48E-05	-1.02E-06	
38	-0.000198	-2.94E-05	-0.004167
-1.01E-05	-8.39E-05	-7.84E-07	
39	-0.000198	-3.26E-05	-0.003690
-1.40E-05	-0.000155	-9.69E-07	
40	-0.000198	-3.47E-05	-0.002827
-1.44E-05	-0.000204	-1.49E-06	
41	-0.000198	-3.68E-05	-0.001768
-1.21E-05	-0.000222	-2.77E-06	
42	-0.000198	-4.16E-05	-0.000687
-8.96E-06	-0.000209	-3.11E-06	
43	-0.000198	-4.44E-05	-9.46E-08
-6.14E-06	-0.000184	-1.65E-06	
44	-0.000198	-3.06E-05	-0.001102
-2.44E-06	-0.000140	-1.04E-06	
45	-0.000198	-1.28E-05	-0.002327
-4.08E-06	-9.48E-05	-8.10E-07	
46	-0.000197	-6.25E-06	-0.003497
-7.62E-06	-5.27E-05	-6.40E-07	
47	-0.000197	-8.35E-06	-0.004433
-1.09E-05	-1.55E-05	-4.85E-07	
48	-0.000197	-1.02E-05	-0.004972
-1.16E-05	-1.79E-05	-4.22E-07	
49	-0.000197	-1.13E-05	-0.005010
-1.85E-05	-8.28E-05	-4.65E-07	
50	-0.000197	-1.17E-05	-0.004517
-2.48E-05	-0.000165	-6.85E-07	
51	-0.000197	-1.18E-05	-0.003538
-2.98E-05	-0.000244	-1.29E-06	
52	-0.000197	-1.20E-05	-0.002167
-3.43E-05	-0.000308	-4.23E-06	
53	-0.000197	-1.22E-05	-0.000520
-3.58E-05	-0.000345	-7.83E-06	
54	-0.000197	-3.25E-05	-7.14E-08
-3.56E-05	-0.000347	-8.31E-06	
55	-0.000188	-1.76E-05	-2.06E-07
-6.13E-05	-8.37E-05	-5.48E-06	
56	-0.000188	-1.71E-05	-0.001114
-9.49E-05	-7.09E-05	-4.12E-06	
57	-0.000188	-1.69E-05	-0.002166
-0.000128	-6.93E-05	-1

87	-0.000189	-1.78E-06	-0.000631
-4.09E-05	-0.000132	-2.17E-06	
88	-0.000189	-5.27E-06	-0.001652
-7.43E-05	-8.89E-05	-1.71E-06	
89	-0.000189	-9.84E-06	-0.002671
-0.000108	-7.48E-05	-9.59E-07	
90	-0.000189	-1.44E-05	-0.003524
-0.000136	-6.81E-05	-9.01E-07	
91	-0.000189	-1.86E-05	-0.004005
-0.000153	-5.05E-05	-7.96E-07	
92	-0.000189	-2.21E-05	-0.004016
-0.000158	-3.31E-05	-6.30E-07	
93	-0.000189	-2.46E-05	-0.003554
-0.000148	-0.000148	-5.07E-07	
94	-0.000189	-2.54E-05	-0.002711
-0.000124	-0.000193	-7.60E-07	
95	-0.000189	-2.33E-05	-0.001688
-9.01E-05	-0.000210	-8.08E-07	
96	-0.000189	-1.78E-05	-0.000651
-5.31E-05	-0.000198	-7.09E-07	
97	-0.000189	-1.31E-05	-2.51E-07
-2.92E-05	-0.000172	-9.13E-07	
98	-0.000189	-7.80E-06	-0.001036
-4.42E-05	-0.000128	-2.27E-06	
99	-0.000189	-2.85E-06	-0.002194
-7.64E-05	-9.81E-05	-1.47E-06	
100	-0.000189	-2.09E-06	-0.003310
-0.000111	-5.08E-05	-6.43E-07	
101	-0.000189	-1.79E-06	-0.004209
-0.000142	-1.67E-05	-5.35E-07	
102	-0.000189	-2.45E-06	-0.004726
-0.000165	-1.56E-05	-4.80E-07	
103	-0.000188	-3.77E-06	-0.004756
-0.000177	-7.40E-05	-4.49E-07	
104	-0.000189	-5.46E-06	-0.004276
-0.000175	-0.000148	-4.58E-07	
105	-0.000189	-6.86E-06	-0.003334
-0.000155	-0.000220	-4.35E-07	
106	-0.000188	-7.63E-06	-0.002038
-0.000119	-0.000281	-4.61E-07	
107	-0.000188	-7.43E-06	-0.000490
-6.86E-05	-0.000322	-6.33E-07	
108	-0.000188	-7.18E-06	-2.06E-07
-5.45E-05	-0.000326	-6.79E-07	
109	-0.000160	-1.43E-05	-9.20E-09
-5.93E-05	-7.73E-05	-4.26E-06	
110	-0.000160	-1.29E-05	-0.000766
-9.57E-05	-7.39E-05	-3.83E-06	
111	-0.000160	-1.27E-05	-0.001502
-0.000132	-6.43E-05	-2.73E-06	
112	-0.000160	-1.91E-05	-0.002026
-0.000150	-4.91E-05	-1.95E-06	
113	-0.000160	-2.45E-05	-0.002263
-0.000151	-2.78E-05	-1.27E-06	
114	-0.000161	-2.62E-05	-0.002187
-0.000137	-6.49E-05	-5.28E-07	
115	-0.000161	-2.40E-05	-0.001830
-0.000111	-0.000108	-2.05E-07	
116	-0.000161	-1.78E-05	-0.001275
-7.49E-05	-0.000133	-2.16E-07	
117	-0.000161	-9.94E-06	-0.000629
-3.54E-05	-0.000136	-3.83E-07	
118	-0.000161	-5.83E-06	-2.04E-08
-2.46E-05	-0.000121	-1.10E-06	
119	-0.000160	-8.39E-06	-0.000466
-4.56E-05	-0.000103	-1.67E-06	
120	-0.000160	-1.66E-05	-0.001187
-8.47E-05	-7.27E-05	-1.96E-06	
121	-0.000159	-2.58E-05	-0.001885
-0.000121	-5.82E-05	-1.78E-06	
122	-0.000158	-3.28E-05	-0.002449
-0.000146	-5.21E-05	-1.48E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000158	-3.67E-05	-0.002763
-0.000157	-3.77E-05	-1.11E-06	
124	-0.000157	-3.74E-05	-0.002769
-0.000153	-5.28E-05	-6.35E-07	
125	-0.000157	-3.49E-05	-0.002465
-0.000136	-0.000103	-2.82E-07	
126	-0.000157	-2.88E-05	-0.001906
-0.000107	-0.000138	-2.81E-07	
127	-0.000157	-1.99E-05	-0.001206
-6.93E-05	-0.000151	-2.66E-07	
128	-0.000157	-1.10E-05	-0.000477
-3.00E-05	-0.000145	-5.67E-07	
129	-0.000157	-6.81E-06	-2.11E-08
-1.73E-05	-0.000132	-1.18E-06	
130	-0.000158	-5.23E-06	-0.000491
-3.83E-05	-0.000113	-1.72E-06	
131	-0.000158	-1.10E-05	-0.001250
-7.79E-05	-8.07E-05	-1.95E-06	
132	-0.000158	-1.98E-05	-0.001987
-0.000115	-6.16E-05	-1.74E-06	
133	-0.000158	-2.58E-05	-0.002588
-0.000144	-5.55E-05	-1.41E-06	
134	-0.000159	-2.82E-05	-0.002922
-0.000158	-4.01E-05	-1.03E-06	
135	-0.000159	-2.78E-05	-0.002925
-0.000158	-5.01E-05	-5.65E-07	
136	-0.000160	-2.47E-05	-0.002595
-0.000143	-0.000134	-3.11E-07	
137	-0.000160	-1.83E-05	-0.001996
-0.000115	-0.000141	-2.96E-07	
138	-0.000160	-1.03E-05	-0.001258
-7.73E-05	-0.000155	-3.14E-07	
139	-0.000161	-6.41E-06	-0.000496
-3.75E-05	-0.000150	-6.36E-07	
140	-0.000161	-7.52E-06	-2.15E-08
-1.64E-05	-0.000136	-1.04E-06	
141	-0.000161	-1.10E-05	-0.000502
-3.12E-05	-0.000117	-1.52E-06	
142	-0.000161	-1.87E-05	-0.001278
-7.10E-05	-8.48E-05	-1.66E-06	
143	-0.000161	-2.60E-05	-0.002032
-0.000109	-7.05E-05	-1.34E-06	
144	-0.000161	-2.98E-05	-0.002648
-0.000139	-6.36E-05	-1.07E-06	
145	-0.000162	-2.97E-05	-0.002993
-0.000157	-4.62E-05	-7.63E-07	
146	-0.000162	-2.66E-05	-0.003003
-0.000160	-4.00E-05	-5.06E-07	
147	-0.000162	-2.45E-05	-0.002672
-0.000148	-9.82E-05	-4.19E-07	
148	-0.000162	-2.00E-05	-0.002063
-0.000122	-0.000138	-3.84E-07	
149	-0.000162	-1.65E-05	-0.001308
-8.51E-05	-0.000156	-3.29E-07	
150	-0.000162	-1.64E-05	-0.000519
-4.53E-05	-0.000154	-4.98E-07	
151	-0.000162	-1.77E-05	-2.88E-08
-2.40E-05	-0.000142	-1.04E-06	
152	-0.000163	-2.30E-05	-0.000838
-3.74E-05	-0.000117	-1.61E-06	
153	-0.000163	-3.05E-05	-0.001737
-7.90E-05	-8.48E-05	-1.49E-06	
154	-0.000163	-3.63E-05	-0.002581
-0.000119	-5.05E-05	-1.14E-06	
155	-0.000163	-3.78E-05	-0.003245
-0.000151	-1.78E-05	-7.98E-07	
156	-0.000163	-3.47E-05	-0.003615
-0.000173	-4.61E-06	-6.92E-07	
157	-0.000163	-2.79E-05	-0.003626
-0.000183	-3.85E-05	-6.63E-07	
158	-0.000163	-1.85E-05	-0.003257
-0.000180	-0.000101	-6.53E-07	
159	-0.000163	-8.71E-06	-0.002540
-0.000162	-0.000162	-6.52E-07	
160	-0.000163	-5.28E-06	-0.001546
-0.000126	-0.000212	-6.34E-07	
161	-0.000163	-6.98E-06	-0.000369
-7.45E-05	-0.000242	-6.08E-07	
162	-0.000163	-7.44E-06	-9.30E-09
-6.34E-05	-0.000244	-6.03E-07	
163	-0.000194	-1.70E-05	-0.000122
-8.09E-05	-0.000104	-7.88E-06	
164	-0.000194	-1.82E-05	-0.001227
-6.27E-05	-0.000226	-1.16E-05	
165	-0.000194	-1.92E-05	-0.002363
-6.87E-05	-0.000209	-1.03E-05	
166	-0.000194	-1.98E-05	-0.003180
-6.80E-05	-0.000216	-1.08E-05	
167	-0.000194	-1.99E-05	-0.003529
-6.32E-05	-0.000226	-1.31E-05	
168	-0.000194	-1.95E-05	-0.003383
-5.56E-05	-0.000288	-1.76E-05	
169	-0.000194	-1.84E-05	-0.002782
-4.37E-05	-0.000337	-1.29E-05	
170	-0.000194	-1.64E-05	-0.001895
-3.56E-05	-0.000368	-2.70E-05	
171	-0.000195	-1.32E-05	-0.000915
-3.31E-05	-0.000362	-2.66E-05	
172	-0.000195	-8.57E-06	-6.83E-05
-2.91E-05	-0.000291	-1.97E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	-0.000195	-1.07E-05	-0.000655
-3.67E-05	-0.000204	-1.38E-05	
174	-0.000196	-1.38E-05	-0.001690
-4.67E-05	-0.000218	-1.29E-05	
175	-0.000196	-1.49E-05	-0.002724
-5.59E-05	-0.000204	-1.12E-05	
176	-0.000197	-1.46E-05	-0.003590
-6.03E-05	-0.000212	-1.11E-05	
177	-0.000198	-1.34E-05	-0.004075
-5.83E-05	-0.000224	-1.14E-05	
178	-0.000198	-1.14E-05	-0.004081
-5.33E-05	-0.000274	-1.43E-05	
179	-0.000198	-8.93E-06	-0.003606
-4.60E-05	-0.000332	-2.01E-05	
180	-0.000198	-6.38E-06	-0.002744
-3.29E-05	-0.000375	-2.43E-05	
181	-0.000197	-5.17E-06	-0.001708
-2.49E-05	-0.000385	-2.58E-05	
182	-0.000197	-4.80E-06	-0.000664
-1.86E-05	-0.000336	-2.23E-05	
183	-0.000197	-4.20E-06	-6.02E-05
-1.51E-05	-0.000241	-1.61E-05	
184	-0.000196	-1.36E-05	-0.000677
-1.95E-05	-0.000204	-1.45E-05	
185	-0.000196	-1.63E-05	-0.001751
-2.81E-05	-0.000218	-1.53E-05	
186	-0.000196	-1.71E-05	-0.002830
-3.88E-05	-0.000203	-1.39E-05	
187	-0.000196	-1.69E-05	-0.003744
-4.73E-05	-0.000211	-1.38E-05	
188	-0.000196	-1.58E-05	-0.004259
-4.90E-05	-0.000223	-1.52E-05	
189	-0.000195	-1.77E-05	-0.004263
-4.80E-05	-0.000277	-1.49E-05	
190	-0.000195	-1.89E-05	-0.003755
-4.55E-05	-0.000339	-2.80E-05	
191	-0.000195	-1.91E-05	-0.002843
-3.65E-05	-0.000384	-3.18E-05	
192	-0.000195	-1.78E-05	-0.001764
-2.58E-05	-0.000392	-3.21E-05	
193	-0.000195	-1.42E-05	-0.000685
-1.85E-05	-0.000341	-2.65E-05	
194	-0.000195	-9.80E-06	-6.03E-05
-1.34E-05	-0.000245	-1.89E-05	
195	-0.000194	-4.08E-06	-0.000690
-1.78E-05	-0.000207	-1.61E-05	
196	-0.000194	-7.53E-06	-0.001781
-2.40E-05	-0.000220	-1.50E-05	
197	-0.000194	-1.16E-05	-0.002877
-3.32E-05	-0.000208	-1.29E-05	
198	-0.000194	-1.69E-05	-0.003807
-4.66E-05	-0.000213	-1.27E-05	
199	-0.000194	-2.18E-05	-0.004336
-5.36E-05	-0.000224	-1.34E-05	
200	-0.000194	-2.59E-05	-0.004348
-5.87E-05	-0.000276	-1.83E-05	
201	-0.000194	-2.88E-05	-0.003840
-6.04E-05	-0.000339	-2.54E-05	
202	-0.000194	-3.04E-05	-0.002919
-5.53E-05	-0.000385	-3.03E-05	
203	-0.000194	-3.00E-05	-0.001821
-4.58E-05	-0.000395	-2.69E-05	
204	-0.000193	-2.69E-05	-0.000714
-3.61E-05	-0.000347	-2.75E-05	
205	-0.000193	-2.21E-05	-6.94E-05
-2.88E-05	-0.000266	-2.29E-05	
206	-0.000193	-9.71E-06	-0.001114
-3.18E-05	-0.000266	-2.32E-05	
207	-0.000193	-2.32E-06	-0.002353
-3.50E-05	-0.000222	-1.75E-05	
208	-0.000193	-2.33E-06	-0.003550
-4.52E-05	-0.000192	-1.41E-05	
209	-0.000193	-3.98E-06	-0.004533
-6.15E-05	-0.000175	-1.21E-05	
210	-0.000193	-5.97E-06	-0.005103
-7.43E-05	-0.000202	-1.39E-05	
211	-0.000193	-7.50E-06	-0.005141
-8.64E-05	-0.000269	-1.97E-05	
212	-0.000193	-8.57E-06	-0.004619
-9.32E-05	-0.000343	-2.73E-05	
213	-0.000193	-9.27E-06	-0.003595
-9.30E-05	-0.000417	-1.60E-05	
214	-0.000193	-9.71E-06	-0.002202
-8.14E-05	-0.000469	-4.15E-05	
215	-0.000193	-1.02E-05	-0.000546
-5.99E-05	-0.000414	-2.91E-05	
216	-0.000193	-1.01E-05	-9.52E-05
-5.07E-05	-0.000344	-3.18E-05	
217	-0.000174	-1.60E-05	-2.82E-05
-3.76E-06	-8.06E-05	-1.16E-05	
218	-0.000174	-1.51E-05	-0.000961
-9.58E-05	-7.68E-05	-9.53E-06	
219	-0.000174	-1.42E-05	-0.001853
-0.000163	-6.66E-05	-1.02E-05	
220	-0.000174	-1.06E-05	-0.002477
-0.000189	-5.10E-05	-1.06E-05	
221	-0.000174	-1.24E-05	-0.002751
-0.000190	-3.06E-05	-1.11E-05	
222	-0.000174	-1.20E-05	-0.002647
-0.000174	-8.60E-05	-1.18E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	-0.000174	-1.13E-05	-0.002205
-0.000142	-0.000135	-1.49E-05	
224	-0.000174	-8.55E-06	-0.001524
-9.59E-05	-0.000161	-1.74E-05	
225	-0.000175	-6.79E-06	-0.000743
-3.67E-05	-0.000159	-1.81E-05	
226	-0.000175	-5.84E-06	-1.35E-05
-2.06E-06	-0.000134	-1.54E-05	
227	-0.000175	-5.12E-06	-0.000542
-3.73E-05	-0.000109	-1.53E-05	
228	-0.000175	-7.12E-06	-0.001387
-0.000101	-7.37E-05	-1.73E-05	
229	-0.000174	-1.03E-05	-0.002218
-0.000151	-6.03E-05	-1.75E-05	
230	-0.000174	-1.25E-05	-0.002891
-0.000183	-5.40E-05	-1.71E-05	
231	-0.000174	-1.33E-05	-0.003265
-0.000196	-3.94E-05	-1.60E-05	
232	-0.000174	-1.30E-05	-0.003270
-0.000192	-7.15E-05	-1.43E-05	
233	-0.000174	-1.21E-05	-0.002906
-0.000173	-0.000126	-1.23E-05	
234	-0.000174	-1.07E-05	-0.002238
-0.000136	-0.000165	-1.23E-05	
235	-0.000174	-7.47E-06	-0.001406
-8.57E-05	-0.000178	-1.21E-05	
236	-0.000174	-5.21E-06	-0.000552
-2.42E-05	-0.000166	-9.51E-06	
237	-0.000174	-4.75E-06	-1.26E-05
-1.87E-06	-0.000145	-6.74E-06	
238	-0.000174	-5.57E-06	-0.000566
-3.13E-05	-0.000120	-5.24E-06	
239	-0.000174	-7.48E-06	-0.001449
-9.41E-05	-9.26E-05	-1.25E-06	
240	-0.000174	-9.55E-06	-0.002321
-0.000145	-6.38E-05	-6.70E-06	
241	-0.000174	-1.12E-05	-0.003035
-0.000181	-5.75E-05	-1.01E-05	
242	-0.000174	-1.19E-05	-0.003432
-0.000197	-4.21E-05	-1.39E-05	
243	-0.000174	-1.25E-05	-0.003435
-0.000197	-6.88E-05	-1.79E-05	
244	-0.000175	-1.21E-05	-0.003043
-0.000181	-0.000127	-2.21E-05	
245	-0.000175	-1.04E-05	-0.002331
-0.000145	-0.000168	-2.49E-05	
246	-0.000175	-8.85E-06	-0.001459
-9.38E-05	-0.000182	-2.57E-05	
247	-0.000175	-6.53E-06	-0.000572
-3.09E-05	-0.000172	-2.23E-05	
248	-0.000175	-4.97E-06	-1.26E-05
-1.82E-06	-0.000151	-1.85E-05	
249	-0.000175	-4.43E-06	-0.000578
-2.55E-05	-0.000126	-1.74E-05	
250	-0.000175	-6.01E-06	-0.001478
-8.76E-05	-8.75E-05	-1.53E-05	
251	-0.000175	-1.07E-05	-0.002366
-0.000139	-7.27E-05	-1.30E-05	
252	-0.000175	-1.40E-05	-0.003096
-0.000177	-6.57E-05	-1.12E-05	
253	-0.000175	-1.58E-05	-0.003506
-0.000196	-4.83E-05	-9.72E-06	
254	-0.000175	-1.85E-05	-0.003515
-0.000199	-6.20E-05	-8.94E-06	
255	-0.000175	-2.02E-05	-0.003123
-0.000187	-0.000121	-1.34E-05	
256	-0.000175	-2.06E-05	-0.002401
-0.000153	-0.000165	-1.58E-05	
257	-0.000175	-1.92E-05	-0.001510
-0.000102	-0.000184	-1.94E-05	
258	-0.000175	-1.63E-05	-0.000594
-3.73E-05	-0.000177	-1.68E-05	
259	-0.000175	-1.42E-05	-1.84E-05
-2.28E-06	-0.000159	-1.46E-05	
260	-0.000175	-1.38E-05	-0.000954
-3.70E-05	-0.000125	-1.16E-05	
261	-0.000176	-1.44E-05	-0.001985
-9.77E-05	-8.75E-05	-9.11E-06	
262	-0.000176	-1.47E-05	-0.002965
-0.000147	-5.12E-05	-9.17E-06	
263	-0.000176	-1.18E-05	-0.003743
-0.000184	-4.77E-05	-1.58E-05	
264	-0.000176	-7.55E-06	-0.004181
-0.000209	-7.61E-06	-9.86E-06	
265	-0.000176	-4.74E-06	-0.004201
-0.000221	-5.43E-05	-1.01E-05	
266	-0.000176	-3.45E-06	-0.003782
-0.000218	-0.000122	-1.49E-05	
267	-0.000176	-4.98E-06	-0.002958
-0.000196	-0.000190	-2.16E-05	
268	-0.000175	-6.42E-06	-0.001814
-0.000145	-0.000247	-2.76E-05	
269	-0.000175	-7.35E-06	-0.000452
-4.22E-05	-0.000285	-2.02E-05	
270	-0.000175	-7.20E-06	-2.67E-05
-9.62E-06	-0.000291	-2.52E-05	
271	-0.000249	-2.81E-06	.000000
-1.73E-05	-8.94E-05	-6.21E-07	
272	-0.000373	-1.46E-05	.000000
-1.01E-05	-0.000158	-1.59E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
-5.13E-06	-0.000159	-1.46E-06	
274	-0.000270	-1.39E-06	.000000
-2.54E-06	-0.000176	-1.68E-06	
275	-0.000215	-6.29E-06	.000000
-1.78E-05	-0.000183	-1.65E-06	
276	-0.000206	-2.03E-06	.000000
-2.90E-05	-0.000148	-1.48E-06	
277	-0.000238	-1.28E-05	.000000
-6.04E-05	-7.95E-05	-5.48E-06	
278	-0.000349	-1.38E-05	.000000
-3.50E-05	-0.000147	-1.14E-06	
279	.000000	.000000	.000000
-2.91E-05	-0.000158	-8.68E-07	
280	-0.000385	-1.30E-06	.000000
-2.55E-05	-0.000165	-1.05E-06	
281	-0.000204	-4.58E-06	.000000
-2.44E-05	-0.000173	-9.13E-07	
282	-0.000197	-9.50E-06	.000000
-3.21E-05	-0.000330	-6.79E-07	
283	-0.000152	-2.65E-06	.000000
-4.62E-05	-7.19E-05	-4.24E-06	
284	-0.000298	3.96E-21	.000000
-4.40E-05	-0.000111	-1.10E-06	
285	-5.40E-07	-1.82E-05	.000000
-1.73E-05	-0.000131	-1.19E-06	
286	-0.000211	-6.76E-05	.000000
-9.85E-06	-0.000138	-1.04E-06	
287	-0.000164	-5.04E-06	.000000
-6.07E-06	-0.000144	-1.04E-06	
288	-0.000169	-3.21E-05	.000000
-2.15E-05	-0.000250	-6.03E-07	

COMB DB-G2-2 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000358	2.80E-05	3.11E-08
4.57E-05	0.000432	7.07E-06	
2	0.000357	3.22E-05	0.000732
0.000106	0.000408	5.48E-06	
3	0.000357	4.44E-05	0.001479
0.000157	0.000328	2.53E-06	
4	0.000357	4.44E-05	0.002100
0.000185	0.000214	1.13E-06	
5	0.000357	4.46E-05	0.002537
0.000199	8.80E-05	1.06E-06	
6	0.000357	4.17E-05	0.002723
0.000204	3.40E-06	9.08E-07	
7	0.000357	3.63E-05	0.002600
0.000193	5.94E-05	1.12E-06	
8	0.000357	2.86E-05	0.002122
0.000161	0.000135	1.35E-06	
9	0.000358	2.10E-05	0.001251
0.000108	0.000214	1.95E-06	
10	0.000358	1.78E-05	4.32E-08
5.30E-05	0.000287	2.07E-06	
11	0.000358	1.39E-05	0.000873
5.24E-05	0.000328	3.03E-06	
12	0.000359	1.32E-05	0.001827
0.000109	0.000351	2.50E-06	
13	0.000359	1.54E-05	0.002425
0.000154	0.000323	1.78E-06	
14	0.000359	1.88E-05	0.002696
0.000183	0.000245	1.51E-06	
15	0.000360	2.17E-05	0.002662
0.000199	0.000132	1.36E-06	
16	0.000360	2.21E-05	0.002907
0.000205	7.52E-05	1.32E-06	
17	0.000360	2.00E-05	0.002949
0.000201	0.000102	1.62E-06	
18	0.000360	1.52E-05	0.002656
0.000179	0.000112	1.79E-06	
19	0.000360	8.19E-06	0.002004
0.000135	0.000170	1.96E-06	
20	0.000360	2.50E-06	0.000959
7.62E-05	0.000249	2.22E-06	
21	0.000360	6.91E-06	4.45E-08
3.93E-05	0.000300	1.91E-06	
22	0.000360	9.25E-06	0.000940
6.21E-05	0.000341	2.75E-06	
23	0.000360	1.71E-05	0.001973
0.000121	0.000363	2.32E-06	
24	0.000360	2.41E-05	0.002631
0.000166	0.000335	1.81E-06	
25	0.000359	3.00E-05	0.002943
0.000193	0.000253	1.57E-06	
26	0.000359	3.43E-05	0.002915
0.000205	0.000132	1.46E-06	
27	0.000359	3.56E-05	0.003038
0.000205	8.22E-05	1.26E-06	
28	0.000359	3.38E-05	0.003071
0.000195	0.000112	1.56E-06	
29	0.000358	2.87E-05	0.002748
0.000168	0.000123	1.73E-06	
30	0.000358	2.07E-05	0.002062
0.000123	0.000176	1.95E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	0.000358	1.13E-05	0.000983
6.37E-05	0.000255	2.31E-06	
32	0.000358	7.21E-06	4.79E-08
3.83E-05	0.000306	2.30E-06	
33	0.000358	3.19E-06	0.000975
7.54E-05	0.000346	3.14E-06	
34	0.000358	9.17E-06	0.002049
0.000135	0.000366	2.79E-06	
35	0.000357	1.74E-05	0.002737
0.000179	0.000335	2.25E-06	
36	0.000357	2.47E-05	0.003067
0.000203	0.000251	2.18E-06	
37	0.000357	2.93E-05	0.003084
0.000208	0.000128	2.14E-06	
38	0.000357	3.09E-05	0.003440
0.000202	8.37E-05	1.86E-06	
39	0.000357	3.26E-05	0.003475
0.000186	0.000115	1.58E-06	
40	0.000357	3.12E-05	0.003109
0.000156	0.000128	1.53E-06	
41	0.000357	2.64E-05	0.002334
0.000111	0.000198	1.79E-06	
42	0.000357	2.03E-05	0.001114
5.49E-05	0.000288	2.25E-06	
43	0.000357	1.85E-05	4.21E-08
5.26E-05	0.000346	2.56E-06	
44	0.000357	1.16E-05	0.001423
0.000109	0.000403	4.22E-06	
45	0.000357	1.23E-05	0.002482
0.000164	0.000411	3.80E-06	
46	0.000357	1.80E-05	0.003155
0.000199	0.000361	3.18E-06	
47	0.000357	2.78E-05	0.003469
0.000211	0.000261	3.18E-06	
48	0.000357	3.72E-05	0.003457
0.000216	0.000128	3.12E-06	
49	0.000357	4.38E-05	0.003169
0.000207	8.03E-05	2.80E-06	
50	0.000357	4.90E-05	0.002656
0.000188	0.000120	2.25E-06	
51	0.000357	5.13E-05	0.001971
0.000159	0.000149	1.86E-06	
52	0.000357	4.95E-05	0.001163
0.000116	0.000170	2.10E-06	
53	0.000357	4.71E-05	0.000274
4.13E-05	0.000181	3.47E-06	
54	0.000357	4.98E-05	2.81E-08
3.46E-05	0.000182	3.65E-06	
55	0.000372	5.06E-05	1.97E-08
3.92E-05	0.000492	3.36E-06	
56	0.000372	3.99E-05	0.000714
5.19E-05	0.000454	2.86E-06	
57	0.000372	4.16E-05	0.001444
7.20E-05	0.000359	1.78E-06	
58	0.000372	4.38E-05	0.002051
8.69E-05	0.000237	8.56E-07	
59	0.000372	4.22E-05	0.002478
9.30E-05	0.000109	3.94E-07	
60	0.000372	3.62E-05	0.002662
8.97E-05	1.56E-05	5.21E-07	
61	0.000372	2.93E-05	0.002549
8.35E-05	5.63E-05	8.38E-07	
62	0.000372	2.59E-05	0.002097
7.27E-05	0.000129	1.65E-06	
63	0.000373	2.27E-05	0.001260
5.25E-05	0.000210	2.59E-06	
64	0.000373	2.83E-05

8.92E-05	0.000302	2.74E-06	
91	0.000371	4.26E-05	0.003021
9.61E-05	0.000178	2.13E-06	
92	0.000371	4.84E-05	0.003371
9.56E-05	8.25E-05	1.39E-06	
93	0.000371	4.84E-05	0.003406
9.02E-05	0.000114	7.99E-07	
94	0.000371	4.32E-05	0.003054
7.98E-05	0.000126	8.73E-07	
95	0.000371	3.51E-05	0.002309
6.51E-05	0.000192	1.81E-06	
96	0.000371	3.02E-05	0.001120
4.89E-05	0.000286	2.95E-06	
97	0.000371	2.86E-05	2.79E-08
4.31E-05	0.000357	2.28E-06	
98	0.000371	2.02E-05	0.001428
5.58E-05	0.000436	2.81E-06	
99	0.000371	1.21E-05	0.002449
7.71E-05	0.000454	3.38E-06	
100	0.000371	1.14E-05	0.003093
9.05E-05	0.000412	3.83E-06	
101	0.000371	2.79E-05	0.003393
9.66E-05	0.000316	3.71E-06	
102	0.000371	4.45E-05	0.003380
0.000106	0.000185	3.14E-06	
103	0.000371	5.66E-05	0.003098
0.000106	7.98E-05	2.28E-06	
104	0.000371	6.28E-05	0.002597
9.89E-05	0.000118	1.45E-06	
105	0.000371	6.29E-05	0.001928
8.39E-05	0.000147	1.05E-06	
106	0.000371	5.66E-05	0.001138
6.20E-05	0.000167	1.73E-06	
107	0.000371	5.61E-05	0.000268
4.07E-05	0.000178	2.99E-06	
108	0.000370	5.79E-05	1.74E-08
3.72E-05	0.000179	3.18E-06	
109	0.000351	4.39E-05	2.41E-08
2.51E-05	0.000404	2.04E-06	
110	0.000351	3.49E-05	0.000700
2.24E-05	0.000371	1.89E-06	
111	0.000351	2.78E-05	0.001415
2.21E-05	0.000286	1.47E-06	
112	0.000351	2.78E-05	0.002011
2.14E-05	0.000172	1.09E-06	
113	0.000351	2.89E-05	0.002431
2.02E-05	5.62E-05	9.94E-07	
114	0.000351	2.81E-05	0.002612
1.97E-05	3.43E-06	9.52E-07	
115	0.000352	2.64E-05	0.002496
2.20E-05	5.72E-05	1.19E-06	
116	0.000352	2.58E-05	0.002039
2.01E-05	0.000130	1.58E-06	
117	0.000352	2.56E-05	0.001203
1.36E-05	0.000207	1.73E-06	
118	0.000352	2.35E-05	3.57E-08
1.29E-05	0.000276	1.47E-06	
119	0.000352	2.06E-05	0.000839
1.52E-05	0.000312	1.33E-06	
120	0.000352	1.51E-05	0.001757
2.53E-05	0.000330	1.20E-06	
121	0.000353	1.40E-05	0.002333
2.56E-05	0.000298	1.11E-06	
122	0.000353	1.38E-05	0.002594
2.18E-05	0.000220	1.06E-06	
123	0.000353	1.51E-05	0.002561
1.80E-05	0.000112	1.07E-06	
124	0.000353	1.63E-05	0.002800
1.92E-05	7.30E-05	1.35E-06	
125	0.000352	1.53E-05	0.002841
2.39E-05	9.88E-05	1.62E-06	
126	0.000352	1.27E-05	0.002560
2.53E-05	0.000109	1.83E-06	
127	0.000352	9.54E-06	0.001932
2.09E-05	0.000165	1.88E-06	
128	0.000352	1.01E-05	0.000925
1.01E-05	0.000242	1.86E-06	
129	0.000352	1.11E-05	3.65E-08
8.54E-06	0.000292	1.73E-06	
130	0.000352	1.34E-05	0.000907
1.06E-05	0.000331	1.52E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
64

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
131	0.000352	1.69E-05	0.001902
2.20E-05	0.000351	1.30E-06	
132	0.000352	1.99E-05	0.002536
2.52E-05	0.000323	1.22E-06	
133	0.000353	2.29E-05	0.002836
2.28E-05	0.000243	1.06E-06	
134	0.000353	2.53E-05	0.002809
1.79E-05	0.000127	1.16E-06	
135	0.000354	2.63E-05	0.002929
1.85E-05	8.02E-05	1.47E-06	
136	0.000354	2.51E-05	0.002960
2.35E-05	0.000109	1.65E-06	
137	0.000354	2.26E-05	0.002649
2.59E-05	0.000120	1.81E-06	
138	0.000355	1.89E-05	0.001988
2.25E-05	0.000172	1.85E-06	
139	0.000355	1.42E-05	0.000948
1.04E-05	0.000250	1.89E-06	
140	0.000355	1.11E-05	3.98E-08
8.05E-06	0.000300	1.81E-06	
141	0.000355	1.08E-05	0.000940
1.02E-05	0.000340	1.62E-06	
142	0.000355	1.13E-05	0.001975
2.18E-05	0.000363	1.37E-06	
143	0.000355	1.46E-05	0.002637
2.64E-05	0.000336	1.33E-06	
144	0.000355	1.82E-05	0.002955
2.49E-05	0.000257	1.53E-06	
145	0.000355	2.02E-05	0.002972
1.99E-05	0.000139	1.84E-06	
146	0.000355	2.02E-05	0.003312
1.85E-05	8.17E-05	2.02E-06	
147	0.000355	1.89E-05	0.003345
2.26E-05	0.000112	2.14E-06	
148	0.000355	2.12E-05	0.002992
2.64E-05	0.000125	2.10E-06	
149	0.000355	2.30E-05	0.002246
2.56E-05	0.000194	1.95E-06	
150	0.000355	2.33E-05	0.001072
1.63E-05	0.000282	2.05E-06	
151	0.000355	2.25E-05	3.50E-08
1.55E-05	0.000340	2.01E-06	
152	0.000355	2.08E-05	0.001370
1.80E-05	0.000401	1.82E-06	
153	0.000356	1.80E-05	0.002387
2.63E-05	0.000165	1.88E-06	
154	0.000356	2.01E-05	0.003031
3.12E-05	0.000374	1.82E-06	
155	0.000356	2.18E-05	0.003330
3.08E-05	0.000282	2.30E-06	
156	0.000356	2.25E-05	0.003316
2.69E-05	0.000157	2.72E-06	
157	0.000356	2.33E-05	0.003037
2.28E-05	7.86E-05	2.80E-06	
158	0.000356	2.50E-05	0.002544
2.40E-05	0.000117	3.04E-06	
159	0.000356	3.09E-05	0.001887
2.44E-05	0.000145	3.20E-06	
160	0.000356	3.82E-05	0.001112
2.42E-05	0.000165	3.48E-06	
161	0.000356	4.69E-05	0.000262
2.34E-05	0.000175	3.77E-06	
162	0.000356	4.98E-05	2.01E-08
2.41E-05	0.000176	3.76E-06	
163	0.000365	3.00E-05	4.10E-05
2.15E-05	0.000179	1.87E-05	
164	0.000365	3.64E-05	0.000721
9.81E-05	0.000602	5.30E-05	
165	0.000365	4.50E-05	0.001459
0.000180	0.000522	4.54E-05	
166	0.000365	4.98E-05	0.002074
0.000210	0.000409	3.44E-05	
167	0.000364	4.89E-05	0.002506
0.000224	0.000284	2.48E-05	
168	0.000364	4.25E-05	0.002693
0.000226	0.000183	2.17E-05	
169	0.000365	3.65E-05	0.002576
0.000210	0.000203	2.01E-05	
170	0.000365	2.95E-05	0.002111
0.000171	0.000261	2.03E-05	
171	0.000365	2.14E-05	0.001253
9.67E-05	0.000338	2.71E-05	
172	0.000365	1.76E-05	1.85E-05
1.93E-05	0.000377	3.04E-05	
173	0.000367	3.45E-05	0.000877
3.75E-05	0.000477	3.72E-05	
174	0.000366	1.55E-05	0.001825
0.000122	0.000537	4.43E-05	
175	0.000366	1.86E-05	0.002408
0.000177	0.000517	4.21E-05	
176	0.000367	2.71E-05	0.002670
0.000209	0.000439	3.55E-05	
177	0.000367	3.09E-05	0.002635
0.000223	0.000328	2.50E-05	
178	0.000367	3.00E-05	0.002879
0.000229	0.000240	2.44E-05	
179	0.000367	2.42E-05	0.002922
0.000224	0.000242	2.58E-05	
180	0.000367	1.46E-05	0.002637
0.000196	0.000241	2.86E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
65

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	0.000368	8.45E-06	0.002000
0.000140	0.000286	3.33E-05	
182	0.000368	1.37E-06	0.000963
5.05E-05	0.000313	3.50E-05	
183	0.000368	4.88E-06	1.73E-05
4.71E-06	0.000377	3.74E-05	
184	0.000368	9.83E-06	0.000944
4.29E-05	0.000490	4.69E-05	
185	0.000367	2.14E-05	0.001970
0.000130	0.000551	5.29E-05	
186	0.000367	3.39E-05	0.002614
0.000186	0.000531	4.92E-05	
187	0.000367	4.41E-05	0.002916
0.000218	0.000449	3.98E-05	
188	0.000366	5.02E-05	0.002886
0.000229	0.000331	2.62E-05	
189	0.000366	5.08E-05	0.003009
0.000230	0.000247	1.51E-05	
190	0.000366	4.58E-05	0.003043
0.000220	0.000250	1.34E-05	
191	0.000365	3.60E-05	0.002729
0.000188	0.000249	1.45E-05	
192	0.000365	2.32E-05	0.002057
0.000132	0.000292	2.10E-05	
193	0.000365	1.17E-05	0.000986
4.46E-05	0.000321	2.53E-05	
194	0.000365	5.28E-06	1.73E-05
3.55E-06	0.000384	2.95E-05	
195	0.000365	2.08E-06	0.000978
5.03E-05	0.000496	3.98E-05	
196	0.000365	9.24E-06	0.002045
0.000140	0.000555	4.71E-05	
197	0.000363	2.36E-05	0.002718
0.000197	0.000533	4.48E-05	
198	0.000364	3.74E-05	0.003039
0.000226	0.000449	3.64E-05	
199	0.000364	4.75E-05	0.003052
0.000233	0.000329	2.57E-05	
200	0.000364	5.22E-05	0.003406
0.000227	0.000250	2.25E-05	
201	0.000364	5.11E-05	0.003443
0.000213	0.000254	2.16E-05	
202	0.000364	4.47E-05	0.003086
0.000179	0.000253	2.13E-05	
203	0.000364	3.47E-05	0.002327
0.000124	0.000316	2.29E-05	
204	0.000364	2.45E-05	0.001119
3.85E-05	0.000355	2.64E-05	
205	0.000364	1.89E-05	2.54E-05
2.12E-05	0.000473	3.45E-05	
206	0.000364	1.28E-05	0.001419
9.71E-05	0.000580	4.72E-05	
207	0.000364	1.17E-05	0.002464
0.000173	0.000600	4.97E-05	
208	0.000364	1.93E-05	0.003123
0.000217	0.000557	4.59E-05	
209	0.000364	3.71E-05	0.003430
0.000236	0.000459	3.61E-05	
210	0.000364	5.23E-05	0.003417
0.000238	0.000330	2.40E-05	
211	0.000364	6.27E-05	0.003133
0.000228	0.000251	1.80E-05	
212	0.000364	6.74E-05	0.002626
0.000213	0.000258	1.71E-05	
213	0.000364	6.60E-05	0.001950
0.000188	0.000263	1.77E-05	
214	0.000364	5.90E-05	0.001151
0.000137	0.000263	1.77E-05	
215	0.000364	5.06E-05	0.000273
2.32E-05	0.000179	1.23E-05	
216	0.000364	4.71E-05	3.29E-05
2.22E-05	0.000180	1.51E-05	
217	0.000361	4.54E-05	3.67E-05
3.78E-05	0.000711	6.73E-05	
218	0.000361	3.49E-05	0.000709
4.37E-05	0.000580	5.00E-05	
219	0.000361	3.07E-05	0.001429
5.33E-05	0.000490	4.29E-05	
220	0.000361	3.26E-05	0.002030
6.44E-05	0.000375	3.18E-05	
221	0.000361	3.27E-05	0.002452
6.78E-05	0.000259	2.25E-05	
222	0.000361	3.03E-05	0.002634
6.47E-05	0.000179	2.21E-05	
223	0.000361	2.69E-05	0.002519
6.50E-05	0.000208	2.32E-05	
224	0.000362	2.47E-05	0.002061
6.55E-05	0.000263	2.59E-05	
225	0.000362	2.56E-05	0.001215
6.29E-05	0.000341	3.20E-05	
226	0.000362	2.48E-05	1.92E-05
5.97E-05	0.000376	3.54E-05	
227	0.000362	2.08E-05	0.000843
6.70E-05	0.000470	4.24E-05	
228	0.000363	1.37E-05	0.001779
6.60E-05	0.000523	5.00E-05	
229	0.000363	1.29E-05	0.002355
5.92E-05	0.000499	4.79E-05	
230	0.000363	1.83E-05	0.002614
5.75E-05	0.000419	4.10E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
66

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	0.000364	2.16E-05	0.002581
5.92E-05	0.000313	3.25E-05	
232	0.000364	2.10E-05	0.002823
5.79E-05	0.000241	2.50E-05	
233	0.000364	1.65E-05	0.002864
5.69E-05	0.000243	1.87E-05	
234	0.000364	1.12E-05	0.002584
5.63E-05	0.000241	1.53E-05	
235	0.000364	7.86E-06	0.001955
5.70E-05	0.000286	1.57E-05	
236	0.000364	1.03E-05	0.000931
4.99E-05	0.000315	1.96E-05	
237	0.000364	1.34E-05	1.78E-05
3.66E-05	0.000375	2.41E-05	
238	0.000363	1.51E-05	0.000912
5.39E-05	0.000483	3.43E-05	
239	0.000363	1.98E-05	0.001925
5.47E-05	0.000542	4.26E-05	
240	0.000363	2.72E-05	0.002560
5.04E-05	0.000522	4.21E-05	
241	0.000363	3.46E-05	0.002859
4.99E-05	0.000441	3.67E-05	
242	0.000363	3.96E-05	0.002831
4.94E-05	0.000326	2.99E-05	
243	0.000363	4.01E-05	0.002952
5.00E-05	0.000244	2.96E-05	
244	0.000364	3.58E-05	0.002984
4.96E-05	0.000248	2.89E-05	
245	0.000364	2.80E-05	0.002674
5.06E-05	0.000247	2.84E-05	
246	0.000363	2.05E-05	0.002012
5.44E-05	0.000390	2.66E-05	
247	0.000363	1.56E-05	0.000955
5.33E-05	0.000319	2.78E-05	
248	0.000363	1.38E-05	1.80E-05
3.47E-05	0.000380	3.06E-05	
249	0.000363	1.04E-05	0.000946
5.02E-05	0.000490	4.02E-05	
250	0.000363	8.66E-06	0.001998
5.71E-05	0.000551	4.77E-05	
251	0.000363	1.81E-05	0.002662
5.63E-05	0.000533	4.53E-05	
252	0.000363	2.88E-05	0.002979
5.72E-05	0.000453	3.71E-05	
253	0.000363	3.72E-05	0.002992
5.80E-05	0.000366	2.62E-05	
254	0.000363	4.16E-05	0.003338
5.96E-05	0.000244	1.94E-05	
255	0.000363	4.14E-05	0.003370
5.84E-05	0.000248	1.72E-05	
256	0.000363	3.74E-05	0.003016
6.03E-05	0.000250	1.83E-05	
257	0.000363	3.17E-05	0.002266
6.68E-05	0.000312	2.46E-05	
258	0.000363	2.76E-05	0.001072
6.77E-05	0.000351	2.91E-05	
259	0.000363	2.54E-05	2.20E-05
5.98E-05	0.000465	3.82E-05	
260	0.000363	2.00E-05	0.001386
6.25E-05	0.000573	5.09E-05	
261	0.000363	1.44E-05	0.002413
6.65E-05	0.000601	5.29E-05	
262	0.000363	1.60E-05	0.003059
6.90E-05	0.000565	4.86E-05	
263	0.000363	2.72E-05	0.003359
7.30E-05	0.000473	3.88E-05	
264	0.000363	3.91E-05	0.003346
7.72E-05	0.000349	2.75E-05	
265	0.000363	4.81E-05	0.003066
7.98E-05	0.000239	2.02E-05	
266	0.000363	5.26E-05	0.002569
7.53E-05	0.000247	2.00E-05	
267	0.000363	5.28E-05	0.001906
6.32E-05	0.000258	2.09E-05	
268	0.000363	5.17E-05	0.001124
4.60E-05	0.000259	2.16E-05	
269	0.000363	5.35E-05	0.000264
2.42E-05	0.000177	1.39E-05	
270	0.000363	5.37E-05	3.01E-05
2.88E-05	0.000178	1.70E-05	
271	0.000303	6.27E-06	.000000
5.69E-05	0.000431	7.07E-06	
272	0.000465	3.64E-05	.000000
5.70E-05	0.000283	2.07E-06	
273	.000000	.000000	.000000
4.20E-05	0.000390	1.91E-06	
274	0.000684	1.71E-06	.000000
4.02E-05	0.000306	2.30E-06	
275	0.000301	1.31E-05	.000000
7.39E-05	0.000342	2.56E-06	
276	0.000684	6.73E-06	.000000
3.17E-05	0.000183	3.65E-06	
277	0.000316	3.62E-05	.000000
6.99E-05	0.000490	3.36E-06	
278	0.000478	3.74E-05	.000000
4.09E-05	0.000299	1.83E-06	
279	.000000	.000000	.000000
2.68E-05	0.000313	1.69E-06	
280	0.000703	1.78E-06	.000000
2.45E-05	0.000320	2.11E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
67

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.000316	7.10E-06	.000000
2.84E-05	0.000359	2.28E-06	
282	0.000730	3.52E-05	.000000
2.33E-05	0.000181	3.18E-06	
283	0.000298	4.15E-06	.000000
6.74E-05	0.000268	2.04E-06	
284	0.000451	-7.81E-22	.000000
5.96E-05	0.000270	1.47E-06	
285	4.86E-07	1.64E-05	.000000
1.51E-05	0.000292	1.73E-06	
286	0.000657	0.000136	.000000
2.37E-21	0.000294	1.81E-06	
287	0.000283	5.74E-05	.000000
-1.27E-21	0.000337	2.01E-06	
288	0.000652	9.94E-05	.000000
-3.06E-22	0.000177	3.76E-06	

COMB DB-G2-2 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000351	-5.43E-05	-7.37E-08
-2.73E-05	-0.000164	-4.11E-06	
2	-0.000350	-3.99E-05	-0.001881
-2.19E-05	-0.000157	-3.14E-06	
3	-0.000350	-4.76E-05	-0.003675
-1.95E-05	-0.000137	-1.42E-06	
4	-0.000349	-5.15E-05	-0.004934
-1.76E-05	-0.000106	-1.49E-06	
5	-0.000349	-5.24E-05	-0.005488
-1.28E-05	-6.32E-05	-1.89E-06	
6	-0.000349	-5.11E-05	-0.005282
-1.32E-05	-0.000122	-2.09E-06	
7	-0.000350	-4.77E-05	-0.004389
-1.87E-05	-0.000228	-2.09E-06	
8	-0.000350	-4.30E-05	-0.003031
-2.23E-05	-0.000294	-2.46E-06	
9	-0.000350	-4.36E-05	-0.001475
-1.78E-05	-0.000306	-3.19E-06	
10	-0.000351	-4.67E-05	-9.99E-08
-1.19E-05	-0.000270	-2.00E-06	
11	-0.000350	-4.42E-05	-0.001073
-1.26E-05	-0.000225	-2.33E-06	
12	-0.000351	-3.99E-05	-0.002766
-2.16E-05	-0.000154	-1.96E-06	
13	-0.000351	-4.19E-05	-0.004423
-2.51E-05	-0.000122	-1.72E-06	
14	-0.000351	-4.34E-05	-0.005770
-2.31E-05	-0.000111	-1.55E-06	
15	-0.000351	-4.26E-05	-0.006521
-1.77E-05	-8.21E-05	-1.26E-06	
16	-0.000351	-3.94E-05	-0.006532
-1.32E-05	-0.000114	-1.40E-06	
17	-0.000351	-3.71E-05	-0.005799
-1.89E-05	-0.000228	-1.51E-06	
18	-0.000351	-3.67E-05	-0.004462
-2.26E-05	-0.000311	-1.69E-06	
19	-0.000351	-3.79E-05	-0.002802
-2.15E-05	-0.000345	-2.27E-06	
20	-0.000351	-4.42E-05	-0.001093
-1.07E-05	-0.000329	-2.70E-06	
21	-0.000351	-4.71E-05	-9.89E-08
-5.77E-06	-0.000292	-1.95E-06	
22	-0.000351	-4.32E-05	-0.001122
-1.03E-05	-0.000244	-2.28E-06	
23	-0.000351	-4.09E-05	-0.002889
-2.14E-05	-0.000169	-2.05E-06	
24	-0.000351	-4.33E-05	-0.004627
-2.43E-05	-0.000128	-1.88E-06	
25	-0.000350	-4.48E-05	-0.006056
-2.18E-05	-0.000117	-1.70E-06	
26	-0.000350	-4.41E-05	-0.006855
-1.62E-05	-8.63E-05	-1.37E-06	
27	-0.000350	-4.69E-05	-0.006861
-1.60E-05	-0.000129	-1.35E-06	
28	-0.000350	-4.76E-05	-0.006074
-2.18E-05	-0.000250	-1.50E-06	
29	-0.000350	-4.59E-05	-0.004651
-2.45E-05	-0.000334	-1.70E-06	
30	-0.000350	-4.27E-05	-0.002910
-2.16E-05	-0.000364	-2.36E-06	
31	-0.000350	-4.38E-05	-0.001134
-9.95E-06	-0.000343	-2.83E-06	
32	-0.000349	-4.72E-05	-9.96E-08
-5.29E-06	-0.000304	-2.35E-06	
33	-0.000349	-4.34E-05	-0.001146
-1.10E-05	-0.000254	-2.80E-06	
34	-0.000349	-3.57E-05	-0.002948
-2.23E-05	-0.000176	-2.69E-06	
35	-0.000349	-3.46E-05	-0.004719
-2.39E-05	-0.000146	-2.45E-06	
36	-0.000349	-4.51E-05	-0.006179
-2.03E-05	-0.000132	-2.26E-06	
37	-0.000349	-5.34E-05	-0.007001
-1.43E-05	-9.77E-05	-1.91E-06	
38	-0.000349	-5.90E-05	-0.007021
-1.84E-05	-0.000135	-1.46E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
68

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000349	-6.17E-05	-0.006232
-2.39E-05	-0.000259	-2.00E-06	
40	-0.000349	-6.20E-05	-0.004789
-2.56E-05	-0.000345	-1.55E-06	
41	-0.000349	-6.18E-05	-0.003012
-2.18E-05	-0.000376	-2.45E-06	
42	-0.000349	-6.88E-05	-0.001181
-1.41E-05	-0.000357	-2.65E-06	
43	-0.000348	-7.30E-05	-1.16E-07
-1.02E-05	-0.000320	-1.98E-06	
44	-0.000349	-6.25E-05	-0.001903
-1.82E-05	-0.000250	-2.42E-06	
45	-0.000348	-4.92E-05	-0.003986
-2.52E-05	-0.000174	-1.92E-06	
46	-0.000348	-4.23E-05	-0.005963
-2.51E-05	-9.85E-05	-1.30E-06	
47	-0.000348	-3.67E-05	-0.007535
-2.19E-05	-3.00E-05	-1.25E-06	
48	-0.000348	-3.47E-05	-0.008429
-1.90E-05	-2.69E-05	-1.01E-06	
49	-0.000348	-3.53E-05	-0.008478
-2.41E-05	-0.000143	-8.19E-07	
50	-0.000348	-3.42E-05	-0.007633
-2.85E-05	-0.000288	-8.61E-07	
51	-0.000348	-3.18E-05	-0.005968
-2.91E-05	-0.000422	-1.22E-06	
52	-0.000347	-2.75E-05	-0.003647
-2.97E-05	-0.000527	-3.27E-06	
53	-0.000347	-3.05E-05	-0.000873
-4.64E-05	-0.000582	-5.83E-06	
54	-0.000348	-3.62E-05	-7.79E-08
-5.03E-05	-0.000584	-6.20E-06	
55	-0.000363	-5.54E-05	-4.21E-07
-6.53E-05	-0.000161	-3.52E-06	
56	-0.000363	-4.50E-05	-0.002151
-8.29E-05	-0.000154	-2.78E-06	
57	-0.000363	-3.84E-05	-0.004182
-0.000100	-0.000135	-1.45E-06	
58	-0.000363	-3.58E-05	-0.005606
-0.000107	-0.000105	-8.54E-07	
59	-0.000363	-3.49E-05	-0.006222
-0.000103	-7.13E-05	-1.43E-06	
60	-0.000364	-3.49E-05	-0.005971
-8.91E-05	-0.000183	-2.04E-06	
61	-0.000364	-3.44E-05	-0.004932
-7.04E-05	-0.000288	-2.52E-06	
62	-0.000364	-3.35E-05	-0.003368
-5.31E-05	-0.000349	-2.75E-06	
63	-0.000365	-3.24E-05	-0.001610
-3.69E-05	-0.000350	-2.59E-06	
64	-0.000365	-3.04E-05	-5.22E-07
-2.53E-05	-0.000286	-1.93E-06	
65	-0.000365	-2.92E-05	-0.001148
-4.17E-05	-0.000225	-2.57E-06	
66	-0.000366	-3.01E-05	-0.003014
-7.10E-05	-0.000148	-1.75E-06	
67	-0.000367	-2.97E-05	-0.004867
-9.42E-05	-0.000121	-1.22E-06	
68	-0.000367	-2.79E-05	-0.006392
-0.000109	-8.08E-05	-8.85E-07	
69	-0.000368	-2.49E-05

94	-0.000364	-5.34E-05	-0.005231
-9.57E-05	-0.000381	-1.72E-06	
95	-0.000363	-5.33E-05	-0.003256
-7.23E-05	-0.000411	-2.28E-06	
96	-0.000363	-4.96E-05	-0.001255
-4.32E-05	-0.000385	-2.37E-06	
97	-0.000363	-4.44E-05	-5.22E-07
-2.82E-05	-0.000332	-1.88E-06	
98	-0.000363	-3.28E-05	-0.001997
-3.92E-05	-0.000245	-2.46E-06	
99	-0.000363	-1.96E-05	-0.004232
-5.61E-05	-0.000167	-1.66E-06	
100	-0.000363	-1.52E-05	-0.006383
-7.36E-05	-9.47E-05	-1.02E-06	
101	-0.000363	-1.56E-05	-0.008116
-9.51E-05	-2.89E-05	-8.97E-07	
102	-0.000363	-1.61E-05	-0.009113
-0.000115	-4.49E-05	-7.99E-07	
103	-0.000363	-1.65E-05	-0.009172
-0.000128	-0.000165	-6.78E-07	
104	-0.000363	-1.70E-05	-0.008246
-0.000133	-0.000310	-5.83E-07	
105	-0.000363	-1.93E-05	-0.006430
-0.000126	-0.000445	-1.03E-06	
106	-0.000362	-2.28E-05	-0.003930
-0.000109	-0.000557	-2.21E-06	
107	-0.000362	-2.93E-05	-0.000946
-8.57E-05	-0.000627	-3.41E-06	
108	-0.000362	-3.18E-05	-4.24E-07
-7.99E-05	-0.000633	-3.57E-06	
109	-0.000344	-5.11E-05	-6.48E-08
-0.000151	-0.000159	-3.91E-06	
110	-0.000345	-4.30E-05	-0.001801
-0.000202	-0.000152	-3.57E-06	
111	-0.000344	-3.66E-05	-0.003522
-0.000243	-0.000133	-2.85E-06	
112	-0.000344	-3.86E-05	-0.004733
-0.000254	-0.000104	-2.34E-06	
113	-0.000344	-4.23E-05	-0.005268
-0.000244	-6.20E-05	-1.86E-06	
114	-0.000345	-4.29E-05	-0.005071
-0.000221	-0.000152	-1.32E-06	
115	-0.000345	-4.08E-05	-0.004217
-0.000188	-0.000250	-1.12E-06	
116	-0.000345	-3.67E-05	-0.002913
-0.000141	-0.000305	-1.15E-06	
117	-0.000345	-3.22E-05	-0.001418
-8.43E-05	-0.000309	-1.39E-06	
118	-0.000345	-2.96E-05	-9.67E-08
-7.01E-05	-0.000267	-1.69E-06	
119	-0.000345	-3.09E-05	-0.001034
-0.000105	-0.000221	-1.60E-06	
120	-0.000345	-3.55E-05	-0.002666
-0.000166	-0.000151	-1.85E-06	
121	-0.000345	-4.03E-05	-0.004264
-0.000213	-0.000119	-1.81E-06	
122	-0.000345	-4.29E-05	-0.005563
-0.000239	-0.000108	-1.60E-06	
123	-0.000344	-4.40E-05	-0.006287
-0.000246	-9.01E-05	-1.08E-06	
124	-0.000344	-4.43E-05	-0.006298
-0.000239	-0.000127	-1.12E-06	
125	-0.000343	-4.56E-05	-0.005592
-0.000220	-0.000236	-1.01E-06	
126	-0.000343	-4.38E-05	-0.004304
-0.000186	-0.000314	-9.70E-07	
127	-0.000343	-3.94E-05	-0.002703
-0.000136	-0.000343	-1.19E-06	
128	-0.000343	-3.42E-05	-0.001055
-7.57E-05	-0.000324	-1.54E-06	
129	-0.000343	-3.17E-05	-9.73E-08
-5.55E-05	-0.000287	-1.77E-06	
130	-0.000343	-3.08E-05	-0.001083
-9.01E-05	-0.000239	-1.90E-06	
131	-0.000343	-3.49E-05	-0.002790
-0.000151	-0.000165	-1.95E-06	
132	-0.000343	-3.91E-05	-0.004467
-0.000201	-0.000125	-1.90E-06	
133	-0.000344	-4.12E-05	-0.005846
-0.000233	-0.000114	-1.68E-06	
134	-0.000344	-4.06E-05	-0.006616
-0.000247	-8.41E-05	-1.33E-06	
135	-0.000344	-4.28E-05	-0.006622
-0.000246	-0.000126	-1.04E-06	
136	-0.000345	-4.31E-05	-0.005863
-0.000232	-0.000243	-1.06E-06	
137	-0.000345	-4.06E-05	-0.004488
-0.000200	-0.000324	-1.12E-06	
138	-0.000345	-3.58E-05	-0.002809
-0.000150	-0.000353	-1.43E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 70 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	-0.000345	-3.21E-05	-0.001094
-8.88E-05	-0.000334	-1.81E-06	
140	-0.000345	-3.22E-05	-9.78E-08
-5.42E-05	-0.000296	-2.10E-06	
141	-0.000345	-3.38E-05	-0.001106
-7.76E-05	-0.000247	-2.29E-06	
142	-0.000345	-3.72E-05	-0.002846
-0.000138	-0.000172	-2.40E-06	
143	-0.000345	-3.93E-05	-0.004555
-0.000189	-0.000142	-2.37E-06	
144	-0.000345	-4.15E-05	-0.005964
-0.000224	-0.000129	-2.16E-06	
145	-0.000345	-4.74E-05	-0.006756
-0.000244	-9.49E-05	-1.79E-06	
146	-0.000345	-5.27E-05	-0.006775
-0.000250	-0.000117	-1.36E-06	
147	-0.000346	-5.44E-05	-0.006013
-0.000242	-0.000236	-1.06E-06	
148	-0.000346	-5.20E-05	-0.004620
-0.000214	-0.000321	-9.07E-07	
149	-0.000346	-4.94E-05	-0.002905
-0.000166	-0.000356	-1.01E-06	
150	-0.000346	-4.92E-05	-0.001139
-0.000104	-0.000342	-1.18E-06	
151	-0.000346	-4.93E-05	-1.15E-07
-6.94E-05	-0.000308	-1.44E-06	
152	-0.000346	-5.11E-05	-0.001830
-8.57E-05	-0.000242	-1.78E-06	
153	-0.000346	-5.36E-05	-0.003830
-0.000143	-0.000188	-2.17E-06	
154	-0.000346	-5.36E-05	-0.005728
-0.000190	-9.50E-05	-1.42E-06	
155	-0.000346	-4.94E-05	-0.007233
-0.000225	-2.86E-05	-1.10E-06	
156	-0.000346	-4.11E-05	-0.008087
-0.000250	-1.51E-05	-9.51E-07	
157	-0.000346	-3.06E-05	-0.008130
-0.000268	-0.000109	-9.04E-07	
158	-0.000346	-2.62E-05	-0.007317
-0.000277	-0.000246	-1.01E-06	
159	-0.000346	-2.18E-05	-0.005716
-0.000270	-0.000378	-1.25E-06	
160	-0.000346	-2.21E-05	-0.003490
-0.000233	-0.000486	-1.68E-06	
161	-0.000346	-2.90E-05	-0.000835
-0.000162	-0.000550	-1.95E-06	
162	-0.000345	-3.12E-05	-6.69E-08
-0.000146	-0.000555	-1.96E-06	
163	-0.000357	-3.83E-05	-0.000111
-0.000147	-0.000179	-2.39E-05	
164	-0.000357	-4.15E-05	-0.002118
-6.22E-05	-0.000289	-2.42E-05	
165	-0.000357	-4.28E-05	-0.004096
-5.72E-05	-0.000264	-2.32E-05	
166	-0.000356	-4.23E-05	-0.005498
-6.29E-05	-0.000255	-2.30E-05	
167	-0.000356	-4.06E-05	-0.006105
-6.52E-05	-0.000243	-2.41E-05	
168	-0.000356	-3.97E-05	-0.005862
-6.16E-05	-0.000329	-2.65E-05	
169	-0.000357	-3.83E-05	-0.004846
-5.91E-05	-0.000429	-3.53E-05	
170	-0.000357	-3.61E-05	-0.003319
-6.41E-05	-0.000493	-4.15E-05	
171	-0.000357	-3.18E-05	-0.001605
-7.26E-05	-0.000495	-4.15E-05	
172	-0.000357	-2.53E-05	-5.86E-05
-5.72E-05	-0.000409	-3.15E-05	
173	-0.000358	-2.85E-05	-0.001156
-5.23E-05	-0.000304	-2.36E-05	
174	-0.000358	-3.25E-05	-0.002987
-5.97E-05	-0.000281	-1.97E-05	
175	-0.000359	-3.33E-05	-0.004802
-5.84E-05	-0.000251	-1.40E-05	
176	-0.000359	-3.30E-05	-0.006297
-5.98E-05	-0.000253	-1.37E-05	
177	-0.000360	-3.12E-05	-0.007135
-5.95E-05	-0.000250	-1.56E-05	
178	-0.000360	-2.83E-05	-0.007146
-5.75E-05	-0.000315	-2.49E-05	
179	-0.000360	-2.42E-05	-0.006327
-5.28E-05	-0.000426	-3.79E-05	
180	-0.000360	-2.14E-05	-0.004842
-5.11E-05	-0.000508	-4.73E-05	
181	-0.000360	-1.99E-05	-0.003023
-5.44E-05	-0.000535	-5.17E-05	
182	-0.000359	-2.24E-05	-0.001175
-5.25E-05	-0.000482	-4.64E-05	
183	-0.000359	-2.77E-05	-5.12E-05
-3.69E-05	-0.000373	-3.47E-05	
184	-0.000359	-3.19E-05	-0.001202
-4.76E-05	-0.000312	-3.48E-05	
185	-0.000358	-3.52E-05	-0.003106
-5.14E-05	-0.000287	-3.32E-05	
186	-0.000358	-3.59E-05	-0.005003
-4.88E-05	-0.000254	-2.85E-05	
187	-0.000358	-3.44E-05	-0.006586
-4.96E-05	-0.000254	-2.55E-05	
188	-0.000358	-3.21E-05	-0.007476
-5.15E-05	-0.000250	-2.38E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 71 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	-0.000358	-3.48E-05	-0.007482
-5.12E-05	-0.000328	-2.52E-05	
190	-0.000358	-3.75E-05	-0.006605
-4.88E-05	-0.000446	-3.63E-05	
191	-0.000357	-3.85E-05	-0.005027
-4.82E-05	-0.000530	-4.31E-05	
192	-0.000357	-3.72E-05	-0.003128
-5.14E-05	-0.000552	-4.56E-05	
193	-0.000357	-3.27E-05	-0.001214
-4.81E-05	-0.000493	-3.84E-05	
194	-0.000357	-2.74E-05	-5.16E-05
-3.45E-05	-0.000381	-2.83E-05	
195	-0.000357	-2.11E-05	-0.001226
-5.16E-05	-0.000318	-2.49E-05	
196	-0.000357	-2.28E-05	-0.003163
-5.39E-05	-0.000291	-2.01E-05	
197	-0.000356	-2.70E-05	-0.005092
-5.10E-05	-0.000266	-2.08E-05	
198	-0.000356	-3.47E-05	-0.006707
-5.30E-05	-0.000264	-2.06E-05	
199	-0.000356	-4.13E-05	-0.007622
-5.77E-05	-0.000257	-2.13E-05	
200	-0.000356	-4.68E-05	-0.007643
-6.00E-05	-0.000332	-2.77E-05	
201	-0.000356	-5.27E-05	-0.006765
-5.92E-05	-0.000453	-3.89E-05	
202	-0.000356	-5.62E-05	-0.005169
-5.77E-05	-0.000539	-4.78E-05	
203	-0.000356	-5.69E-05	-0.003235
-5.87E-05	-0.000561	-5.08E-05	
204	-0.000356	-5.39E-05	-0.001269
-5.18E-05	-0.000504	-4.39E-05	
205	-0.000356	-4.87E-05	-6.40E-05
-5.73E-05	-0.000407	-3.74E-05	
206	-0.000356	-3.53E-05	-0.002000
-7.23E-05	-0.000370	-3.39E-05	
207	-0.000356	-2.98E-05	-0.004211
-6.48E-05	-0.000291	-2.67E-05	
208	-0.000356	-1.85E-05	-0.006332
-6.19E-05	-0.000227	-2.06E-05	
209	-0.000356	-1.98E-05	-0.008046
-6.69E-05	-0.000177	-1.96E-05	
210	-0.000356	-2.08E-05	-0.009028
-7.56E-05	-0.000209	-2.10E-05	
211	-0.000356	-2.10E-05	-0.009086
-7.84E-05	-0.000334	-2.85E-05	
212	-0.000355	-2.32E-05	-0.008170
-7.63E-05	-0.000475	-4.21E-05	
213	-0.000355	-2.50E-05	-0.006372
-7.61E-05	-0.000609	-5.60E-05	
214	-0.000355	-2.57E-05	-0.003902
-7.70E-05	-0.000707	-6.84E-05	
215	-0.000355	-2.48E-05	-0.000960
-9.17E-05	-0.000677	-4.92E-05	
216	-0.000355	-2.37E-05	-8.73E-05
-0.000119	-0.000610	-5.69E-05	
217	-0.000353	-5.50E-05	-0.000163
-4.77E-05	-0.000176	-2.19E-05	
218	-0.000353	-4.06E-05	-0.002104
-0.000167	-0.000285	-2.06E-05	
219	-0.000353	-3.39E-05	-0.004035
-0.000248	-0.000257	-1.86E-05	
220	-0.000354	-3.30E-05	-0.005406
-0.000258	-0.000246	-1.97E-05	
221	-0.000354	-3.31E-05	-0.006000
-0.000252	-0.000237	-2.20E-05	
222	-0.000354	-3.32E-05	-0.005761
-0.000233	-0.000351	-2.77E-05	
223	-0.000354	-3.29E-05	-0.004767
-0.000199	-0.000446	-3.68E-05	
224	-0.000354	-3.44E-05	-0.003271
-0.000148	-0.000499	-4.22E-05	
225	-0.000355	-2.84E-05	-0.001593
-6.99E-05	-0.000491	-4.23E-05	
226	-0.000355	-2.71E-05	-9.18E-05
-1.17E-05	-0.000401	-3.34E-05	
227	-0.000355	-2.73E-05	-0.001153
-6.87E-05	-0.000298	-2.68E-05	
228	-0.000355	-2.91E-05	-0.002947
-0.000158	-0.000276	-2.96E-05	
229	-0.000356	-3.05E-05	-0.004728
-0.000216	-0.000247	-2.93E-05	
230	-0.000356	-3.06E-05	-0.006196
-0.000249	-0.000247	-2.79E-05	
231	-0.000356	-2.90E-05	-0.007018
-0.000258	-0.000243	-3.03E-05	
232	-0.000356	-2.57E-05	-0.007029
-0.000251	-0.000324	-3.03E-05	
233	-0.000356	-2.36E-05	-0.006227
-0.000233	-0.000432	-3.53E-05	
234	-0.000356	-2.09E-05	-0.004768
-0.000195	-0.000510	-4.07E-05	
235	-0.000356	-1.92E-05	-0.002983
-0.000134	-0.000532	-4.15E-05	
236	-0.000355	-2.34E-05	-0.001172
-4.50E-05	-0.000475	-3.36E-05	
237	-0.000355	-2.69E-05	-8.17E-05
-4.30E-06	-0.000368	-2.36E-05	
238	-0.000355	-2.88E-05	-0.001198
-5.27E-05	-0.000309	-1.93E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 72 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	-0.000355	-3.06E-05	-0.003066
-0.000145	-0.000284	-1.66E-05	
240	-0.000355	-3.16E-05	-0.004929
-0.000208	-0.000251	-1.61E-05	
241	-0.000355	-3.15E-05	-0.006484
-0.000245	-0.000251	-1.79E-05	
242	-0.000355	-2.95E-05	-0.007357
-0.000259	-0.000247	-2.44E-05	
243	-0.000355	-3.16E-05	-0.007363
-0.000258	-0.000325	-3.24E-05	
244	-0.000355	-3.32E-05	-0.006501
-0.000245	-0.000440	-4.20E-05	
245	-0.000355	-3.32E-05	-0.004952
-0.000207	-0.000522	-4.92E-05	
246	-0.000355	-3.24E-05	-0.003087
-0.000144	-0.000554	-5.16E-05	
247	-0.000355	-2.98E-05	-0.001210
-5.26E-05	-0.000486	-4.36E-05	
248	-0.000355	-2.68E-05	-8.22E-05
-3.93E-06	-0.000378	-3.35E-05	
249	-0.000355	-2.20E-05	-0.001221
-4.66E-05	-0.000319	-3.03E-05	
250	-0.000354	-2.07E-05	-0.003121
-0.000136	-0.000291	-2.69E-05	
251	-0.000354	-2.58E-05	-0.005016
-0.000198	-0.000265	-2.27E-05	
252	-0.000354	-3.12E-05	-0.006602
-0.000238	-0.000264	-2.07E-05	
253	-0.000354	-3.64E-05	-0.007499
-0.000256	-0.000257	-2.56E-05	
254	-0.000354	-4.34E-05	-0.007519
-0.000262	-0.000318	-2.60E-05	
255	-0.000354	-4.85E-05	-0.006656
-0.000254	-0.000436	-3.68E-05	
256	-0.000354	-5.07E-05	-0.005087
-0.000219	-0.000522	-4.53E-05	
257	-0.000354	-4.99E-05	-0.003186
-0.000158	-0.000549	-4.78E-05	
258	-0.000354	-4.64E-05	-0.001255
-6.73E-05	-0.000498	-4.04E-05	
259	-0.000354	-4.31E-05	-9.68E-05
-1.09E-05	-0.000406	-3.31E-05	
260	-0.000354	-3.60E-05	-0.001988
-6.90E-05	-0.000371	-2.89E-05	
261	-0.000355	-2.83E-05	-0.004149
-0.000148	-0.000292	-2.18E-05	
262	-0.000355	-2.36E-05	-0.006224
-0.000203	-0.000229	-1.73E-05	
263	-0.000355	-2.14E-05	-0.007902
-0.000240	-0.000184	-1.80E-05	
264	-0.000355	-2.05E-05	-0.008861
-0.000265	-0.000200	-1.99E-05	
265	-0.000354	-1.80E-05	-0.008915
-0.000279	-0.000308	-2.59E-05	
266	-0.000354	-1.56E-05	-0.008017
-0.000281	-0.000445	-3.84E-05	
267	-0.000354	-1.61E-05	-0.006255
-0.000274	-0.000578	-5.16E-05	
268	-0.000354	-1.98E-05	-0.003838
-0.000228	-0.000681	-6.31E-05	
269	-0.000354	-2.63E-05	-0.000967
-8.56E-05	-0.000667	-4.43E-05	
270	-0.000353	-2.84E-05	-0.000135
-4.55E-05	-0.000607	-4.21E-05	
271	-0.000391	-4.85E-06	.000000
-2.51E-05	-0.000164	-4.11E-06	
272	-0.000655	-2.59E-05	.000000
-1.92E-05	-0.000270	-2.00E-06	
273	.000000	.000000	.000000
-1.17E-05	-0.000293	-1.95E-06	
274	-0.000478	-2.45E-06	.000000
-6.79E-06	-0.000304	-2.35E-06	
275	-0.000374	-1.05E-05	.000000
-2.94E-05	-0.000318	-1.98E-06	
276	-0.000366	-3.60E-06	.000000
-3.98E-05	-0.000585	-6.20E-06	
277	-0.000293	-2.46E-05	.000000
-4.75E-05	-0.000159	-3.52E-06	
278	-0.000672	-2.66E-05	.000000
-2.92E-05	-0.000286	-1.93E-06	
279	.000000	.000000	.000000
-1.93E-05	-0.000307	-1.66E-06	
280	-0.000496	-2.52E-06	.000000
-1.42E-05	-0.000318	-1.98E-06	
281	-0.000393	-8.81E-06	.000000
-1.47E-05	-0.000333	-1.88E-06	
282	-0.000379	-1.83E-05	.000000
-2.31E-05	-0.000637	-3.57E-06	
283	-0.000388	-8.71E-05	.000000
-0.000128	-0.000142	-3.91E-06	
284	-0.000645	-1.15E-05	.000000
-0.000113	-0.000242	-1.69E-06	
285	-2.46E-06	-8.33E-05	.000000
-5.77E-05	-0.000284	-1.77E-06	
286	-0.000444	-0.000174	.000000
-3.52E-05	-0.000302	-2.10E-06	
287	-0.000354	-0.000143	.000000
-3.19E-05	-0.000313	-1.44E-06	
288	-0.000350	-0.000143	.000000
-6.03E-05	-0.000569	-1.96E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 73 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DB-G2-3 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000534	0.000106	4.29E-08
5.85E-05	0.000593	9.71E-06	
2	0.000533	0.000115	0.001038
0.000115	0.000641	7.60E-06	
3	0.000533	0.000132	0.002096
0.000169	0.000502	4.26E-06	
4	0.000533	0.000142	0.002981
0.000201	0.000320	2.76E-06	
5	0.000533	0.000100	0.003611
0.000218	0.000131	1.75E-06	
6	0.000533	0.000131	0.003897
0.000224	6.27E-06	1.06E-06	
7	0.000533	0.000109	0.003749
0.000211	8.16E-05	1.83E-06	
8	0.000535	0.000135	0.003094
0.000172	0.000191	2.93E-06	
9	0.000534	5.20E-05	0.001854
0.000110	0.000311	4.53E-06	
10	0.000535	2.83E-05	5.85E-08
6.55E-05	0.000433	5.33E-06	
11	0.000536	3.73E-05	0.001310
6.90E-05	0.000544	5.43E-06	
12	0.000537	5.65E-05	0.002690
0.000133	0.000543	6.26E-06	
13	0.000538	7.69E-05	0.003521
0.000179	0.000501	5.52E-06	
14	0.000538	9.44E-05	0.003875
0.000205	0.000381	4.56E-06	
15	0.000539	0.000105	0.003798
0.000215	0.000212	3.32E-06	
16	0.000540	0.000104	0.004121
0.000224	0.000111	2.11E-06	
17	0.000541	9.28E-05	0.004207
0.000221	0.000147	2.19E-06	
18	0.000541	7.26E-05	0.003824
0.000197	0.000110	2.33E-06	
19	0.000542	4.69E-05	0.002921
0.000148	0.000240	3.40E-06	
20	0.000542	2.21E-05	0.001423
8.20E-05	0.000364	4.75E-06	
21	0.000542	2.68E-05	6.04E-08
4.96E-05	0.000451	5.04E-06	
22	0.000541	4.12E-05	0.001397
7.26E-05	0.000525	6.17E-06	
23	0.000539	6.81E-05	0.002880
0.000139	0.000567	6.19E-06	
24	0.000538	9.43E-05	0.003791
0.000188	0.000528	5.68E-06	
25	0.000537	0.000101	0.004201
0.000215	0.000406	4.76E-06	
26	0.000535	0.000129	0.004132
0.000222	0.000226	3.52E-06	
27	0.000534	0.000130	0.004303
0.000224	0.000119	2.09E-06	
28	0.000533	0.000120	0.004377
0.000217	0.000159	2.09E-06	
29	0.000532	9.90E-05	0.003953
0.000190	0.000174	2.29E-06	
30	0.000531	7.19E-05	0.003004
0.000141	0.000248	3.56E-06	
31	0.000530	4.29E-05	0.001457
7.35E-05	0.000373	5.08E-06	
32	0.000529	2.63E-05	6.54E-08
4.85E-05	0.000461	5.76E-06	
33	0.000529	2.52E-05	0.001446
8.17E-05	0.000535	6.99E-06	
34	0.000528	5.29E-05	0.002987
0.000149	0.000577	7.14E-06	
35	0.000527	8.27E-05	0.003939
0.000199	0.000538	6.58E-06	
36	0.000526	0.000108	0.004373
0.000224	0.000416	5.80E-06	
37	0.000526	0.000125	0.004348
0.000228	0.000234	4.57E-06	
38	0.000525	0.000129	0.004851
0.000221	0.000120	2.96E-06	
39	0.000525	0.000124	0.004930
0.000210	0.000162	1.83E-06	
40	0.000525	0.000110	0.004449
0.000183	0.000179	1.87E-06	
41	0.000524	8.83E-05	0.003378
0.000135	0.000277	3.11E-06	
42	0.000524	6.53E-05	0.001638
6.98E-05	0.000418	4.91E-06	
43	0.000524	5.19E-05	5.71E-08
6.42E-05	0.000518	6.31E-06	
44	0.000524	2.86E-05	0.002090
0.000113	0.000625	9.03E-06	
45	0.000524	5.77E-05	0.003588
0.000177	0.000652	9.21E-06	
46	0.000523	9.03E-05	0.004510
0.000219	0.000589	8.51E-06	
47	0.000523	0.000124	0.004920
0.000235	0.000447	7.76E-06	
48	0.000523	0.000153	0.004877
0.000238	0.000254	6.46E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 74 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000523	0.000165	0.004454
0.000228	0.000131	4.67E-06	
50	0.000522	0.000169	0.003725
0.000206	0.000167	2.71E-06	
51	0.000522	0.000162	0.002762
0.000174	0.000208	1.80E-06	
52	0.000522	0.000147	0.001629
0.000126	0.000237	2.04E-06	
53	0.000522	0.000133	0.000384
5.09E-05	0.000253	3.49E-06	
54	0.000522	0.000132	3.76E-08
4.53E-05	0.000255	3.68E-06	
55	0.000494	8.08E-05	2.67E-08
4.49E-05	0.000632	4.07E-06	
56	0.000494	7.41E-05	0.000962
6.48E-05	0.000576	3.17E-06	
57	0.000495	7.42E-05	0.001943
9.31E-05	0.000444	1.95E-06	
58	0.000494	7.19E-05	0.002761
0.000116	0.000281	1.20E-06	
59	0.000494	6.54E-05	0.003335
0.000128	0.000115	8.37E-07	
60	0.000495	5.51E-05	0.003583
0.000130	1.63E-05	9.90E-07	
61	0.000495	4.39E-05	0.003428
0.000123	8.10E-05	1.28E-06	
62	0.000495	3.59E-05	0.002814
0.000106	0.000179	1.99E-06	
63	0.000495	3.23E-05	0.001682
6.73E-05	0.000285	3.09E-06	
64	0.000496	3.23E-05	4.31E-08
3.92E-05	0.000396	2.20E-06	
65	0.000496	2.84E-05	0.001184
6.73E-05	0.000462	2.80E-06	
66	0.000496	2.17E-05	0.002436
0.000102	0.000494	2.78E-06	
67	0.000497	2.26E-05	0.003207
0.000121	0.000453	2.29E-06	
68	0.000497	2.72E-05	0.003556
0.000130	0.000344	1.76E-06	
69	0.000497	3.07E-05	0.003510
0.000128	0.000193	1.21E-06	
70	0.000498	2.90E-05	0.003834
0.000131	0.000101	9.54E-07	
71	0.000498	2.35E-05	0.003891
0.000129	0.000136	1.14E-06	
72	0.000498	1.56E-05	0.003513
0.000115	0.000150	1.38E-06	
73	0.000498	1.50E-05	0.002669
8.94E-05	0.000223	2.03E-06	
74	0.000498	1.97E-05	0.001297
4.80E-05	0.000334	2.74E-06	
75	0.000498	2.47E-05	4.41E-08
2.31E-05	0.000415	1.99E-06	
76	0.000498	2.69E-05	0.001272
5.51E-05	0.000483	2.66E-06	
77	0.000497	3.18E-05	0.002629
9.50E-05	0.000521	2.80E-06	
78	0.000497	4.21E-05

99	0.000495	2.74E-05	0.003288
0.000110	0.000604	4.43E-06	
100	0.000495	2.40E-05	0.004159
0.000131	0.000552	4.86E-06	
101	0.000495	4.24E-05	0.004566
0.000140	0.000427	4.71E-06	
102	0.000495	6.39E-05	0.004549
0.000145	0.000254	4.15E-06	
103	0.000495	8.11E-05	0.004170
0.000141	0.000103	3.36E-06	
104	0.000495	9.29E-05	0.003496
0.000127	2.50E-05	2.58E-06	
105	0.000495	9.85E-05	0.002595
0.000106	0.000195	1.85E-06	
106	0.000495	9.76E-05	0.001531
7.79E-05	0.000224	2.20E-06	
107	0.000494	9.27E-05	0.000361
5.00E-05	0.000240	3.78E-06	
108	0.000494	9.23E-05	2.42E-08
4.53E-05	0.000241	4.02E-06	
109	0.000428	6.67E-05	3.70E-08
3.62E-05	0.000456	2.84E-06	
110	0.000429	4.18E-05	0.000891
3.97E-05	0.000417	2.72E-06	
111	0.000429	2.82E-05	0.001801
4.60E-05	0.000320	2.37E-06	
112	0.000429	3.14E-05	0.002556
5.09E-05	0.000188	2.02E-06	
113	0.000429	3.75E-05	0.003080
5.36E-05	5.81E-05	1.87E-06	
114	0.000429	4.11E-05	0.003291
5.44E-05	9.10E-06	1.62E-06	
115	0.000429	4.21E-05	0.003120
5.39E-05	8.05E-05	2.88E-06	
116	0.000429	4.10E-05	0.002522
4.41E-05	0.000170	3.84E-06	
117	0.000429	3.62E-05	0.001468
2.38E-05	0.000258	4.06E-06	
118	0.000429	2.59E-05	4.41E-08
1.51E-05	0.000331	3.38E-06	
119	0.000429	2.59E-05	0.001012
2.95E-05	0.000367	2.73E-06	
120	0.000428	2.66E-05	0.002153
5.32E-05	0.000381	1.79E-06	
121	0.000428	2.78E-05	0.002895
6.04E-05	0.000340	1.56E-06	
122	0.000428	2.71E-05	0.003253
5.77E-05	0.000246	1.62E-06	
123	0.000427	2.76E-05	0.003254
5.09E-05	0.000118	1.67E-06	
124	0.000427	3.20E-05	0.003563
5.28E-05	9.12E-05	2.51E-06	
125	0.000426	3.39E-05	0.003590
5.83E-05	0.000125	3.66E-06	
126	0.000426	3.24E-05	0.003206
5.65E-05	0.000140	4.52E-06	
127	0.000425	2.72E-05	0.002393
4.37E-05	0.000212	4.78E-06	
128	0.000425	2.12E-05	0.001130
1.85E-05	0.000300	4.46E-06	
129	0.000425	1.52E-05	4.44E-08
9.72E-06	0.000353	3.87E-06	
130	0.000425	1.90E-05	0.001105
2.26E-05	0.000392	3.07E-06	
131	0.000427	2.83E-05	0.002352
4.78E-05	0.000436	1.96E-06	
132	0.000428	3.33E-05	0.003173
5.85E-05	0.000373	1.52E-06	
133	0.000429	3.53E-05	0.003582
5.82E-05	0.000278	1.48E-06	
134	0.000430	3.47E-05	0.003574
5.14E-05	0.000139	1.62E-06	
135	0.000431	3.41E-05	0.003731
5.29E-05	0.000100	2.87E-06	
136	0.000432	3.52E-05	0.003745
5.97E-05	0.000138	3.94E-06	
137	0.000433	3.34E-05	0.003321
5.97E-05	0.000154	4.69E-06	
138	0.000434	2.78E-05	0.002464
4.85E-05	0.000219	4.85E-06	
139	0.000435	1.77E-05	0.001159
2.22E-05	0.000308	4.51E-06	
140	0.000435	1.81E-05	4.76E-08
9.05E-06	0.000363	3.90E-06	
141	0.000435	2.41E-05	0.001148
1.94E-05	0.000404	3.09E-06	
142	0.000436	3.06E-05	0.002445
4.55E-05	0.000426	1.92E-06	
143	0.000436	3.53E-05	0.003304
5.86E-05	0.000393	1.33E-06	
144	0.000436	3.70E-05	0.003737
6.04E-05	0.000299	1.60E-06	
145	0.000437	3.53E-05	0.003823
5.46E-05	0.000158	2.45E-06	
146	0.000437	3.10E-05	0.004241
5.38E-05	0.000100	3.67E-06	
147	0.000437	2.54E-05	0.004256
6.12E-05	0.000141	4.71E-06	
148	0.000437	2.48E-05	0.003775
6.34E-05	0.000159	5.24E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000437	2.41E-05	0.002803
5.49E-05	0.000247	5.09E-06	
150	0.000437	2.79E-05	0.001320
2.99E-05	0.000350	4.71E-06	
151	0.000438	3.57E-05	4.66E-08
1.83E-05	0.000415	4.16E-06	
152	0.000439	4.40E-05	0.001688
2.93E-05	0.000480	3.10E-06	
153	0.000438	4.65E-05	0.002979
5.17E-05	0.000494	2.09E-06	
154	0.000439	4.88E-05	0.003823
6.49E-05	0.000444	1.83E-06	
155	0.000439	4.74E-05	0.004234
6.83E-05	0.000335	2.34E-06	
156	0.000439	4.31E-05	0.004241
6.47E-05	0.000184	3.70E-06	
157	0.000440	3.79E-05	0.003900
5.84E-05	9.56E-05	4.96E-06	
158	0.000440	3.32E-05	0.003275
5.51E-05	0.000147	6.32E-06	
159	0.000440	3.28E-05	0.002432
5.00E-05	0.000184	7.39E-06	
160	0.000440	4.09E-05	0.001434
4.33E-05	0.000211	8.21E-06	
161	0.000439	6.91E-05	0.000338
3.54E-05	0.000225	9.62E-06	
162	0.000439	7.67E-05	3.72E-08
3.42E-05	0.000226	8.59E-06	
163	0.000515	8.41E-05	5.61E-05
3.52E-05	0.000849	8.89E-05	
164	0.000515	9.49E-05	0.000994
0.000104	0.000735	6.62E-05	
165	0.000514	0.000108	0.002018
0.000191	0.000634	5.49E-05	
166	0.000514	0.000115	0.002873
0.000227	0.000432	4.33E-05	
167	0.000514	0.000112	0.003479
0.000246	0.000255	3.59E-05	
168	0.000514	9.85E-05	0.003750
0.000254	0.000133	3.49E-05	
169	0.000514	8.12E-05	0.003603
0.000243	0.000184	3.53E-05	
170	0.000514	6.13E-05	0.002971
0.000206	0.000277	3.77E-05	
171	0.000514	4.02E-05	0.001779
0.000127	0.000390	4.66E-05	
172	0.000515	2.44E-05	2.58E-05
4.25E-05	0.000477	5.14E-05	
173	0.000515	2.95E-05	0.001257
8.45E-05	0.000583	5.94E-05	
174	0.000516	4.14E-05	0.002581
0.000171	0.000642	6.95E-05	
175	0.000517	5.51E-05	0.003381
0.000218	0.000605	6.72E-05	
176	0.000517	7.10E-05	0.003728
0.000240	0.000491	5.90E-05	
177	0.000518	7.82E-05	0.003663
0.000244	0.000333	4.58E-05	
178	0.000518	7.65E-05	0.003986
0.000252	0.000224	4.08E-05	
179	0.000518	6.53E-05	0.004061
0.000253	0.000242	3.78E-05	
180	0.000519	4.70E-05	0.003685
0.000232	0.000247	3.63E-05	
181	0.000518	3.01E-05	0.002812
0.000180	0.000516	5.69E-05	
182	0.000518	1.24E-05	0.001370
8.37E-05	0.000397	3.59E-05	
183	0.000518	1.94E-05	2.42E-05
2.21E-05	0.000486	3.84E-05	
184	0.000518	3.11E-05	0.001344
8.33E-05	0.000603	4.91E-05	
185	0.000517	5.32E-05	0.002772
0.000175	0.000667	5.78E-05	
186	0.000516	7.61E-05	0.003653
0.000225	0.000636	5.72E-05	
187	0.000516	9.50E-05	0.004055
0.000249	0.000519	5.16E-05	
188	0.000515	0.000106	0.003997
0.000251	0.000551	4.21E-05	
189	0.000515	0.000107	0.004164
0.000253	0.000232	3.41E-05	
190	0.000514	9.74E-05	0.004228
0.000251	0.000252	3.39E-05	
191	0.000514	7.90E-05	0.003811
0.000228	0.000259	3.51E-05	
192	0.000513	6.56E-05	0.002893
0.000178	0.000323	4.04E-05	
193	0.000512	3.33E-05	0.001403
8.52E-05	0.000404	4.21E-05	
194	0.000512	1.96E-05	2.49E-05
2.04E-05	0.000495	4.33E-05	
195	0.000511	1.47E-05	0.001391
8.50E-05	0.000614	5.35E-05	
196	0.000511	3.46E-05	0.002875
0.000182	0.000679	6.26E-05	
197	0.000510	6.14E-05	0.003795
0.000234	0.000650	5.92E-05	
198	0.000510	8.62E-05	0.004222
0.000257	0.000533	4.74E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000510	0.000104	0.004205
0.000256	0.000363	3.63E-05	
200	0.000510	0.000111	0.004705
0.000251	0.000234	3.30E-05	
201	0.000509	0.000108	0.004774
0.000247	0.000256	3.20E-05	
202	0.000509	9.48E-05	0.004301
0.000225	0.000264	3.16E-05	
203	0.000509	7.60E-05	0.003266
0.000177	0.000351	3.31E-05	
204	0.000509	5.63E-05	0.001591
8.90E-05	0.000447	3.90E-05	
205	0.000509	4.40E-05	4.11E-05
4.78E-05	0.000583	4.92E-05	
206	0.000509	2.89E-05	0.002003
0.000128	0.000719	6.53E-05	
207	0.000509	3.45E-05	0.003450
0.000210	0.000752	6.86E-05	
208	0.000509	5.92E-05	0.004346
0.000252	0.000698	6.32E-05	
209	0.000509	9.20E-05	0.004752
0.000267	0.000566	5.00E-05	
210	0.000509	0.000119	0.004719
0.000264	0.000385	3.40E-05	
211	0.000509	0.000137	0.004316
0.000250	0.000244	2.91E-05	
212	0.000509	0.000144	0.003613
0.000230	0.000260	2.88E-05	
213	0.000509	0.000140	0.002679
0.000200	0.000283	2.96E-05	
214	0.000509	0.000127	0.001580
0.000145	0.000298	3.03E-05	
215	0.000509	0.000111	0.000373
3.27E-05	0.000496	2.09E-05	
216	0.000509	0.000105	4.88E-05
2.75E-05	0.000248	2.55E-05	
217	0.000460	7.21E-05	4.66E-05
5.68E-05	0.000781	7.89E-05	
218	0.000461	5.27E-05	0.000931
5.53E-05	0.000641	5.86E-05	
219	0.000461	3.67E-05	0.001872
7.50E-05	0.000525	5.01E-05	
220	0.000461	3.52E-05	0.002653
9.41E-05	0.000381	4.02E-05	
221	0.000461	3.51E-05	0.003197
0.000104	0.000241	3.31E-05	
222	0.000461	3.47E-05	0.003422
0.000106	0.000167	3.43E-05	
223	0.000461	3.45E-05	0.003254
0.000109	0.000219	3.72E-05	
224	0.000461	3.36E-05	0.002643
0.000106	0.000296	4.21E-05	
225	0.000461	3.28E-05	0.001544
9.10E-05	0.000392	5.02E-05	
226	0.000461	2.78E-05	2.36E-05
7.20E-05	0.000442	5.36E-05	
227	0.000461	2.46E-05	0.001066
0.000100	0.000533	6.12E-05	
228	0.000462	2.06E-05	0.002268
0.000113	0.000561	7.11E-05	
229	0.000462	2.01E-05	0.003030
0.000109	0.000544	6.87E-05	
230	0.000462	2.41E-05	0.003387
0.000102	0.000442	6.04E-05	
231	0.000462	2.91E-05	0.003361
9.59E-05	0.000307	4.90E-05	
232	0.000462	3.07E-05	0.003687
9.61E-05	0.000247	3.78E-05	
233	0.000462	2.87E-05	0.003724
0.000101	0.000260	2.77E-05	
234	0.000462	2.53E-05	0.003339
0.000102	0.000263	2.11E-05	
235	0.000461	2.17E-05	0.002506
9.83E-05	0.000327	1.93E-05	
236	0.000461	2.07E-05	0.001183
7.53E-05	0.000378	2.20E-05	
237	0.000461	1.96E-05	2.20E-05
4.60E-05	0.000446	2.64E-05	
238	0.000461	1.84E-05	0.001158
8.39E-05	0.000553	3.70E-05	
239	0.000464	2.54E-05	0.002465
0.000100	0.000609	4.73E-05	
240	0.000462	3.25E-05	0.003307
9.89E-05	0.000578	4.94E-05	
241	0.000462	3.79E-05	0.003717
9.52E-05	0.000475	4.72E-05	
242	0.000463	4.03E-05	0.003697
8.78E-05	0.000330	4.36E-05	
243	0.000463	4.11E-05	0.003858
8.95E-05	0.000252	4.52E-05	
244	0.000463	3.72E-05	0.003882
9.62E-05	0.000267	4.57E-05	
245	0.000464	3.12E-05	0.003456
0.000100	0.000272	4.56E-05	
246	0.000464	2.42E-05	0.002579
0.000100	0.000331	4.53E-05	
247	0.000464	1.81E-05	0.001213
8.36E-05	0.000383	4.28E-05	
248	0.000464	2.12E-05	2.20E-05
4.38E-05	0.000453	4.34E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000464	2.17E-05	0.001203
7.68E-05	0.000563	5.27E-05	
250	0.000465	2.28E-05	0.002562
0.000100	0.000624	5.95E-05	
251	0.000465	3.10E-05	0.003441
0.000103	0.000598	5.63E-05	
252	0.000465	3.85E-05	0.003875
0.000102	0.000497	4.80E-05	
253	0.000465	4.30E-05	0.003934
9.72E-05	0.000349	3.73E-05	
254	0.000465	4.38E-05	0.004375
0.000100	0.000250	3.05E-05	
255	0.000465	4.05E-05	0.004399
0.000107	0.000268	2.79E-05	
256	0.000465	3.45E-05	0.003914
0.000114	0.000276	2.87E-05	
257	0.000465	3.32E-05	0.002917
0.000119	0.000358	3.43E-05	
258	0.000465	3.72E-05	0.001366
0.000105	0.000424	3.75E-05	
259	0.000465	3.97E-05	2.91E-05
7.49E-05	0.000546	4.68E-05	
260	0.000466	4.02E-05	0.001773
9.14E-05	0.000662	6.12E-05	
261	0.000466	3.75E-05	0.003112
0.000108	0.000693	6.30E-05	
262	0.000466	3.58E-05	0.003972
0.000115	0.000648	5.70E-05	
263	0.000466	4.42E-05	0.004385
0.000117	0.000533	4.85E-05	
264	0.000467	5.05E-05	0.004384
0.000118	0.000377	3.85E-05	
265	0.000467	5.36E-05	0.004027
0.000115	0.000243	3.21E-05	
266	0.000467	5.27E-05	0.003380
0.000105	0.000268	3.19E-05	
267	0.000467	5.54E-05	0.002510
8.63E-05	0.000291	3.28E-05	
268	0.000466	6.72E-05	0.001482
6.21E-05	0.000382	3.37E-05	
269	0.000466	8.30E-05	0.000350
3.15E-05	0.000233	2.23E-05	
270	0.000466	8.59E-05	3.90E-05
4.04E-05	0.000235	2.72E-05	
271	0.000459	1.04E-05	.000000
7.34E-05	0.000693	9.71E-06	
272	0.000430	5.39E-05	.000000
7.65E-05	0.000430	5.33E-06	
273	.000000	.000000	.000000
5.65E-05	0.000450	5.04E-06	
274	0.001007	2.53E-06	.000000
5.09E-05	0.000461	5.76E-06	
275	0.000459	2.00E-05	.000000
9.25E-05	0.000613	6.31E-06	
276	0.001044	1.03E-05	.000000
4.17E-05	0.000255	3.68E-06	
277	0.000419	4.61E-05	.000000
8.18E-05	0.000630	4.07E-06	
278	0.000637	4.98E-05	.000000
4.53E-05	0.000595	2.20E-06	
279	.000000	.000000	.000000
2.81E-05	0.000414	1.99E-06	
280	0.000937	2.36E-06	.000000
2.40E-05	0.000424	2.65E-06	
281	0.000415	9.32E-06	.000000
2.98E-05	0.000477	3.01E-06	
282	0.000384	4.65E-05	.000000
2.50E-05	0.000243	4.02E-06	
283	0.000357	3.29E-06	.000000
7.87E-05	0.000462	2.84E-06	
284	0.000557	5.43E-22	.000000
7.18E-05	0.000324	3.38E-06	
285	5.67E-07	1.92E-05	.000000
1.79E-05	0.000353	3.87E-06	
286	0.000805	0.000165	.000000
-3.80E-21	0.000355	3.90E-06	
287	0.000332	7.11E-05	.000000
-8.74E-22	0.000411	4.16E-06	
288	0.000771	0.000120	.000000
5.61E-22	0.000228	8.59E-06	

COMB DB-G2-3 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000521	-6.79E-05	-2.59E-07
-0.000102	-0.000231	-4.40E-06	
2	-0.000521	-5.71E-05	-0.003053
-0.000144	-0.000221	-3.41E-06	
3	-0.000520	-6.59E-05	-0.005940
-0.000187	-0.000193	-1.63E-06	
4	-0.000520	-7.08E-05	-0.007950
-0.000206	-0.000150	-1.80E-06	
5	-0.000520	-7.24E-05	-0.008449
-0.000200	-0.000115	-3.57E-06	
6	-0.000520	-7.08E-05	-0.008449
-0.000180	-0.000243	-5.08E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000520	-6.54E-05	-0.006986
-0.000149	-0.000400	-6.12E-06	
8	-0.000521	-5.56E-05	-0.004787
-0.000105	-0.000489	-6.78E-06	
9	-0.000522	-5.49E-05	-0.002302
-5.14E-05	-0.000493	-7.12E-06	
10	-0.000523	-6.03E-05	-3.20E-07
-3.73E-05	-0.000414	-5.47E-06	
11	-0.000524	-5.75E-05	-0.001650
-6.82E-05	-0.000332	-3.07E-06	
12	-0.000526	-5.09E-05	-0.004304
-0.000128	-0.000217	-3.56E-06	
13	-0.000528	-5.45E-05	-0.006925
-0.000178	-0.000172	-2.28E-06	
14	-0.000529	-5.77E-05	-0.009064
-0.000209	-0.000156	-2.08E-06	
15	-0.000530	-5.62E-05	-0.010255
-0.000218	-0.000117	-2.08E-06	
16	-0.000531	-5.05E-05	-0.010270
-0.000207	-0.000214	-3.40E-06	
17	-0.000532	-4.46E-05	-0.009103
-0.000187	-0.000384	-4.61E-06	
18	-0.000531	-4.14E-05	-0.006975
-0.000152	-0.000504	-5.47E-06	
19	-0.000531	-4.51E-05	-0.004350
-0.000101	-0.000549	-6.06E-06	
20	-0.000531	-5.41E-05	-0.001676
-4.20E-05	-0.000512	-6.07E-06	
21	-0.000530	-5.95E-05	-3.19E-07
-2.24E-05	-0.000442	-5.04E-06	
22	-0.000530	-5.61E-05	-0.001714
-5.51E-05	-0.000357	-4.78E-06	
23	-0.000528	-5.21E-05	-0.004469
-0.000116	-0.000237	-3.48E-06	
24	-0.000528	-5.84E-05	-0.007206
-0.000168	-0.000181	-2.45E-06	
25	-0.000527	-6.13E-05	-0.009469
-0.000203	-0.000166	-2.30E-06	
26	-0.000526	-5.96E-05	-0.010733
-0.000217	-0.000125	-2.16E-06	
27	-0.000525	-6.40E-05	-0.010743
-0.000217	-0.000224	-3.37E-06	
28	-0.000524	-6.58E-05	-0.009497
-0.000202	-0.000405	-4.66E-06	
29	-0.000523	-6.24E-05	-0.007242
-0.000167	-0.000528	-5.64E-06	
30	-0.000522	-5.39E-05	-0.004502
-0.000115	-0.000569	-6.29E-06	
31	-0.000521	-5.65E-05	-0.001733
-5.32E-05	-0.000529	-6.40E-06	
32	-0.000521	-5.94E-05	-3.19E-07
-2.01E-05	-0.000458	-5.71E-06	
33	-0.000520	-5.37E-05	-0.001748
-4.47E-05	-0.000371	-5.64E-06	
34	-0.000519	-4.44E-05	-0.004552
-0.000105	-0.000249	-4.44E-06	
35	-0.000519	-4.43E-05	-0.007334
-0.000157	-0.000205	-3.39E-06	
36	-0.000518	-5.98E-05	-0.009639
-0.000194	-0.000188	-3.23E-06	
37	-0.000517	-7.30E-05	-0.010935
-0.000214	-0.000142	-2.80E-06	
38	-0.000517	-8.36E-05	-0.010963
-0.000223	-0.000220	-3.11E-06	
39	-0.000516	-8.80E-05	-0.009714
-0.000213	-0.000405	-4.08E-06	
40	-0.000516	-8.79E-05	-0.007432
-0.000180	-0.000533	-4.95E-06	
41	-0.000515	-8.30E-05	-0.004642
-0.000127	-0.000579	-5.75E-06	
42	-0.000515	-8.44E-05	-0.001798
-6.77E-05	-0.000545	-5.68E-06	
43	-0.000515	-8.79E-05	-3.34E-07
-3.32E-05	-0.000478	-5.23E-06	
44	-0.000515	-7.07E-05	-0.002884
-5.83E-05	-0.000361	-5.39E-06	
45	-0.000514	-5.38E-05	-0.006097
-0.000119	-0.000244	-3.88E-06	
46	-0.000514	-4.64E-05	-0.009173
-0.000175	-0.000136	-2.51E-06	
47	-0.000513	-4.14E-05	-0.011639
-0.000218	-3.96E-05	-1.70E-06	
48	-0.000513	-4.12E-05	-0.013056
-0.000249	-4.21E-05	-1.16E-06	
49	-0.000513	-4.24E-05	-0.013159
-0.000270	-0.000209	-1.99E-06	
50	-0.000512	-4.16E-05	-0.011869
-0.000270	-0.000423	-3.02E-06	
51	-0.000512	-3.94E-05	-0.009294
-0.000245	-0.000627	-4.09E-06	
52	-0.000511	-3.63E-05	-0.005694
-0.000195	-0.000798	-5.57E-06	
53	-0.000512	-4.07E-05	-0.001367
-0.000142	-0.000901	-8.22E-06	
54	-0.000512	-4.81E-05	-2.64E-07
-0.000129	-0.000908	-8.67E-06	
55	-0.000482	-6.48E-05	-4.19E-07
-0.000103	-0.000217	-4.63E-06	
56	-0.000482	-5.40E-05	-0.002773
-0.000186	-0.000207	-3.62E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000482	-4.69E-05	-0.005394
-0.000270	-0.000180	-1.97E-06	
58	-0.000482	-4.33E-05	-0.007232
-0.000320	-0.000138	-1.76E-06	
59	-0.000482	-4.12E-05	-0.008030
-0.000327	-9.27E-05	-2.31E-06	
60	-0.000483	-3.99E-05	-0.007713
-0.000295	-0.000246	-2.83E-06	
61	-0.000483	-3.81E-05	-0.006383
-0.000234	-0.000383	-3.30E-06	
62	-0.000484	-3.61E-05	-0.004375
-0.000157	-0.000459	-3.59E-06	
63	-0.000484	-3.43E-05	-0.002102
-8.01E-05	-0.000458	-3.47E-06	
64	-0.000485	-3.14E-05	-5.25E-07
-3.83E-05	-0.000378	-2.53E-06	
65	-0.000485	-2.85E-05	-0.001508
-8.88E-05	-0.000301	-3.07E-06	
66	-0.000486	-2.98E-05	-0.003937
-0.000179	-0.000198	-2.12E-06	
67	-0.000487	-3.09E-05	-0.006338
-0.000261	-0.000161	-1.41E-06	
68	-0.000487	-3.02E-05	-0.008304
-0.000321	-0.000145	-1.05E-06	
69	-0.000488	-2.78E-05	-0.009401
-0.000346	-0.000107	-8.80E-07	
70	-0.000488	-2.41E-05	-0.009416
-0.000335	-0.000211	-1.31E-06	
71	-0.000488	-2.09E-05	-0.008345
-0.000293	-0.000364	-1.89E-06	
72	-0.000488	-1.83E-05	-0.006391
-0.000223	-0.000471	-2.36E-06	
73	-0.000488	-1.75E-05	-0.003986
-0.000141	-0.000508	-2.74E-06	
74	-0.000487	-2.15E-05	-0.001534
-5.80E-05	-0.000473	-2.61E-06	
75	-0.000487	-2.77E-05	-5.26E-07
-2.06E-05	-0.000406	-1.96E-06	
76	-0.000487	-3.16E-05	-0.001570
-7.00E-05	-0.000327	-2.73E-06	
77	-0.000487	-3.41E-05	-0.004096
-0.000160	-0.000220	-2.09E-06	
78	-0.000486	-3.53E-05	-0.006608
-0.000245	-0.000170	-1.44E-06	
79	-0.000486	-3.53E-05	-0.008691
-0.000312	-0.000155	-1.21E

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
107	-0.000483	-3.32E-05	-0.001238
-0.000147	-0.000817	-4.51E-06	
108	-0.000483	-3.54E-05	-4.26E-07
-0.000122	-0.000826	-4.85E-06	
109	-0.000419	-5.55E-05	-6.11E-08
-0.000177	-0.000201	-7.88E-06	
110	-0.000419	-4.43E-05	-0.002044
-0.000256	-0.000192	-7.46E-06	
111	-0.000420	-4.48E-05	-0.004006
-0.000329	-0.000167	-6.27E-06	
112	-0.000420	-6.22E-05	-0.005398
-0.000360	-0.000128	-4.80E-06	
113	-0.000421	-7.48E-05	-0.006027
-0.000357	-7.30E-05	-3.13E-06	
114	-0.000421	-7.72E-05	-0.005822
-0.000326	-0.000173	-1.54E-06	
115	-0.000421	-7.06E-05	-0.004865
-0.000271	-0.000287	-1.02E-06	
116	-0.000421	-5.60E-05	-0.003383
-0.000195	-0.000352	-1.46E-06	
117	-0.000421	-3.96E-05	-0.001664
-0.000108	-0.000360	-2.62E-06	
118	-0.000421	-2.85E-05	-9.10E-08
-7.94E-05	-0.000317	-3.78E-06	
119	-0.000420	-3.44E-05	-0.001229
-0.000131	-0.000269	-4.39E-06	
120	-0.000419	-5.31E-05	-0.003140
-0.000221	-0.000189	-4.80E-06	
121	-0.000417	-7.26E-05	-0.004994
-0.000299	-0.000152	-4.66E-06	
122	-0.000416	-8.77E-05	-0.006495
-0.000350	-0.000136	-3.85E-06	
123	-0.000415	-9.62E-05	-0.007332
-0.000370	-9.82E-05	-2.78E-06	
124	-0.000414	-9.72E-05	-0.007347
-0.000362	-0.000143	-1.56E-06	
125	-0.000413	-9.22E-05	-0.006535
-0.000327	-0.000273	-1.42E-06	
126	-0.000413	-7.90E-05	-0.005048
-0.000266	-0.000365	-1.29E-06	
127	-0.000413	-6.02E-05	-0.003191
-0.000184	-0.000401	-1.87E-06	
128	-0.000413	-4.08E-05	-0.001258
-9.44E-05	-0.000384	-3.11E-06	
129	-0.000413	-3.09E-05	-9.22E-08
-6.18E-05	-0.000346	-3.93E-06	
130	-0.000414	-3.15E-05	-0.001295
-0.000113	-0.000294	-4.54E-06	
131	-0.000415	-5.01E-05	-0.003303
-0.000205	-0.000210	-4.90E-06	
132	-0.000416	-6.88E-05	-0.005257
-0.000286	-0.000160	-4.66E-06	
133	-0.000417	-8.27E-05	-0.006856
-0.000345	-0.000144	-3.81E-06	
134	-0.000417	-8.86E-05	-0.007747
-0.000374	-0.000104	-2.57E-06	
135	-0.000418	-9.00E-05	-0.007754
-0.000373	-0.000138	-1.65E-06	
136	-0.000419	-8.29E-05	-0.006875
-0.000344	-0.000278	-1.62E-06	
137	-0.000420	-6.80E-05	-0.005282
-0.000285	-0.000375	-1.56E-06	
138	-0.000420	-4.83E-05	-0.003325
-0.000204	-0.000412	-2.04E-06	
139	-0.000421	-3.15E-05	-0.001307
-0.000111	-0.000395	-3.23E-06	
140	-0.000421	-3.27E-05	-9.14E-08
-5.98E-05	-0.000357	-4.07E-06	
141	-0.000422	-4.15E-05	-0.001324
-9.74E-05	-0.000306	-4.69E-06	
142	-0.000422	-5.84E-05	-0.003375
-0.000189	-0.000220	-5.03E-06	
143	-0.000422	-7.38E-05	-0.005372
-0.000272	-0.000183	-4.74E-06	
144	-0.000423	-8.57E-05	-0.007010
-0.000334	-0.000165	-3.84E-06	
145	-0.000423	-9.50E-05	-0.007931
-0.000371	-0.000120	-2.59E-06	
146	-0.000423	-9.70E-05	-0.007955
-0.000378	-0.000124	-2.12E-06	
147	-0.000424	-8.90E-05	-0.007073
-0.000356	-0.000266	-1.80E-06	
148	-0.000424	-7.25E-05	-0.005455
-0.000303	-0.000369	-1.54E-06	
149	-0.000424	-5.34E-05	-0.003453
-0.000223	-0.000415	-1.69E-06	
150	-0.000425	-5.23E-05	-0.001367
-0.000130	-0.000406	-2.69E-06	
151	-0.000425	-5.72E-05	-1.08E-07
-7.83E-05	-0.000373	-3.54E-06	
152	-0.000425	-7.05E-05	-0.002201
-0.000116	-0.000305	-4.41E-06	
153	-0.000426	-8.71E-05	-0.004571
-0.000210	-0.000219	-4.45E-06	
154	-0.000426	-0.000100	-0.006799
-0.000295	-0.000130	-3.70E-06	
155	-0.000426	-0.000104	-0.008555
-0.000362	-0.000156	-2.62E-06	
156	-0.000426	-9.87E-05	-0.009540
-0.000409	-1.68E-05	-2.01E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
157	-0.000426	-8.33E-05	-0.009571
-0.000433	-0.000112	-2.06E-06	
158	-0.000426	-6.59E-05	-0.008597
-0.000432	-0.000275	-2.14E-06	
159	-0.000426	-4.25E-05	-0.006704
-0.000399	-0.000434	-2.28E-06	
160	-0.000426	-2.40E-05	-0.004083
-0.000324	-0.000563	-2.55E-06	
161	-0.000426	-3.18E-05	-0.000975
-0.000207	-0.000640	-2.70E-06	
162	-0.000426	-3.50E-05	-6.13E-08
-0.000181	-0.000646	-2.71E-06	
163	-0.000502	-5.12E-05	-0.000128
-0.000137	-0.000237	-3.95E-05	
164	-0.000501	-5.46E-05	-0.002999
-0.000184	-0.000309	-3.54E-05	
165	-0.000501	-5.62E-05	-0.005832
-0.000282	-0.000277	-3.39E-05	
166	-0.000501	-5.60E-05	-0.007831
-0.000340	-0.000250	-3.56E-05	
167	-0.000501	-5.42E-05	-0.008690
-0.000352	-0.000236	-3.67E-05	
168	-0.000501	-5.26E-05	-0.008336
-0.000323	-0.000379	-3.93E-05	
169	-0.000501	-4.95E-05	-0.006880
-0.000267	-0.000521	-4.79E-05	
170	-0.000502	-4.44E-05	-0.004702
-0.000200	-0.000602	-5.54E-05	
171	-0.000502	-3.63E-05	-0.002259
-0.000126	-0.000598	-5.58E-05	
172	-0.000503	-2.93E-05	-6.84E-05
-6.09E-05	-0.000490	-4.72E-05	
173	-0.000504	-3.31E-05	-0.001617
-0.000103	-0.000372	-4.15E-05	
174	-0.000506	-3.70E-05	-0.004215
-0.000195	-0.000298	-4.04E-05	
175	-0.000507	-4.05E-05	-0.006792
-0.000272	-0.000259	-3.66E-05	
176	-0.000508	-4.15E-05	-0.008913
-0.000331	-0.000253	-3.51E-05	
177	-0.000509	-3.95E-05	-0.010101
-0.000359	-0.000232	-3.53E-05	
178	-0.000510	-3.54E-05	-0.010116
-0.000353	-0.000344	-4.17E-05	
179	-0.000510	-2.96E-05	-0.008954
-0.000314	-0.000503	-5.06E-05	
180	-0.000509	-2.45E-05	-0.006845
-0.000251	-0.000617	-5.61E-05	
181	-0.000508	-2.30E-05	-0.004262
-0.000175	-0.000652	-5.71E-05	
182	-0.000508	-2.54E-05	-0.001642
-9.16E-05	-0.000593	-4.87E-05	
183	-0.000507	-3.12E-05	-6.10E-05
-4.20E-05	-0.000478	-3.81E-05	
184	-0.000507	-3.59E-05	-0.001678
-9.35E-05	-0.000391	-3.55E-05	
185	-0.000506	-4.04E-05	-0.004376
-0.000182	-0.000314	-3.65E-05	
186	-0.000506	-4.44E-05	-0.007068
-0.000260	-0.000265	-3.57E-05	
187	-0.000505	-4.42E-05	-0.009310
-0.000324	-0.000258	-3.68E-05	
188	-0.000505	-4.23E-05	-0.010571
-0.000357	-0.000236	-3.98E-05	
189	-0.000505	-4.64E-05	-0.010581
-0.000357	-0.000349	-4.56E-05	
190	-0.000504	-4.91E-05	-0.009338
-0.000323	-0.000518	-5.96E-05	
191	-0.000504	-4.89E-05	-0.007103
-0.000260	-0.000636	-6.80E-05	
192	-0.000503	-4.39E-05	-0.004408
-0.000182	-0.000669	-7.05E-05	
193	-0.000503	-3.67E-05	-0.001697
-9.42E-05	-0.000607	-6.03E-05	
194	-0.000502	-3.08E-05	-6.16E-05
-3.99E-05	-0.000492	-4.78E-05	
195	-0.000502	-2.45E-05	-0.001711
-9.23E-05	-0.000403	-4.99E-05	
196	-0.000502	-2.63E-05	-0.004455
-0.000177	-0.000324	-3.93E-05	
197	-0.000501	-3.46E-05	-0.007190
-0.000255	-0.000286	-3.57E-05	
198	-0.000501	-4.63E-05	-0.009475
-0.000321	-0.000277	-3.33E-05	
199	-0.000501	-5.66E-05	-0.010771
-0.000360	-0.000250	-3.19E-05	
200	-0.000500	-6.52E-05	-0.010799
-0.000366	-0.000341	-3.61E-05	
201	-0.000500	-7.27E-05	-0.009555
-0.000337	-0.000513	-4.62E-05	
202	-0.000500	-7.58E-05	-0.007295
-0.000275	-0.000637	-5.85E-05	
203	-0.000500	-7.35E-05	-0.004553
-0.000195	-0.000676	-6.28E-05	
204	-0.000500	-6.40E-05	-0.001771
-0.000103	-0.000621	-5.43E-05	
205	-0.000500	-5.33E-05	-7.45E-05
-6.14E-05	-0.000519	-4.97E-05	
206	-0.000499	-3.81E-05	-0.002797
-0.000126	-0.000436	-4.12E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
207	-0.000499	-2.64E-05	-0.005929
-0.000205	-0.000323	-3.53E-05	
208	-0.000499	-2.06E-05	-0.008937
-0.000283	-0.000227	-4.04E-05	
209	-0.000499	-2.19E-05	-0.011368
-0.000354	-0.000146	-3.00E-05	
210	-0.000499	-2.28E-05	-0.012765
-0.000405	-0.000164	-3.07E-05	
211	-0.000499	-2.33E-05	-0.012859
-0.000425	-0.000325	-3.81E-05	
212	-0.000498	-2.68E-05	-0.011573
-0.000408	-0.000525	-5.02E-05	
213	-0.000498	-2.98E-05	-0.009034
-0.000357	-0.000720	-6.66E-05	
214	-0.000498	-3.17E-05	-0.005524
-0.000267	-0.000880	-8.41E-05	
215	-0.000499	-3.24E-05	-0.001330
-0.000138	-0.000916	-8.28E-05	
216	-0.000498	-3.16E-05	-0.000101
-0.000115	-0.000877	-7.41E-05	
217	-0.000450	-5.74E-05	-0.000161
-4.57E-05	-0.000224	-3.46E-05	
218	-0.000450	-4.63E-05	-0.002500
-0.000231	-0.000318	-3.08E-05	
219	-0.000450	-3.75E-05	-0.004802
-0.000378	-0.000284	-2.98E-05	
220	-0.000451	-3.44E-05	-0.006436
-0.000428	-0.000260	-3.13E-05	
221	-0.000451	-4.14E-05	-0.007154
-0.000432	-0.000234	-3.40E-05	
222	-0.000452	-4.52E-05	-0.006886
-0.000398	-0.000372	-3.99E-05	
223	-0.000451	-4.35E-05	-0.005722
-0.000327	-0.000490	-4.91E-05	
224	-0.000452	-3.64E-05	-0.003950
-0.000227	-0.000555	-5.49E-05	
225	-0.000452	-2.81E-05	-0.001937
-9.81E-05	-0.000549	-5.21E-05	
226	-0.000452	-2.65E-05	-8.97E-05
-1.14E-05	-0.000455	-4.78E-05	
227	-0.000452	-2.72E-05	-0.001416
-9.65E-05	-0.000349	-4.23E-05	
228	-0.000452	-3.50E-05	-0.003600
-0.000235	-0.000306	-4.71E-05	
229	-0.000452	-4.52E-05	-0.005749
-0.000345	-0.000271	-4.70E-05	
230	-0.000451	-5.31E-05	-0.007507
-0.000419	-0.000265	-4.69E-05	
231	-0.000451	-5.65E-05	-0.008490
-0.000448	-0.000248	-4.64E-05	
232	-0.000451	-5.44E-05	-0.008505
-0.000439	-0.000434	-4.45E-05	
233	-0.000450	-4.91E-05	-0.007547
-0.000397	-0.000471	-4.64E-05	
234	-0.000450	-4.00E-05	-0.005802
-0.000315	-0.000568	-4.86E-05	
235	-0.000450	-2.99E-05	-0.003650
-0.000201	-0.000599	-5.24E-05	
236	-0.000450	-2.57E-05	-0.001442
-6.41E-05	-0.000543	-3.64E-05	
237	-0.000451	-2.58E-05	-8.10E-05
-6.32E-06	-0.000436	-2.59E-05	
238	-0.000451	-2.79E-05	-0.001479
-7.72E-05	-0.000370	-2.16E-05	
239	-0.000451	-3.27E-05	-0.003760
-0.000218	-0.000322	-1.98E-05	
240	-0.000451	-4.24E-05	-0.006014
-0.000334	-0.000278	-2.14E-05	
241	-0.000451	-4.91E-05	-0.007881
-0.000415	-0.000273	-2.65E-05	
242	-0.000451	-5.09E-05	-0.008925
-0.000452	-0.000356	-3.70E-05	
243	-0.000452	-5.23E-05	-0.008933
-0.000452	-0.000329	-4.88E-05	
244	-0.000452	-4.94E-05	-0.007902
-0.000415	-0.000475	-6.14E-05	
245	-0.000452	-4.21E-05	-0.006042
-0.000334	-0.000579	-7.02E-05	
246	-0.000452	-3.22E-05	-0.003786
-0.000218	-0.000611	-7.25E-05	
247	-0.000452	-2.98E-05	-0.001492
-7.69E-05	-0.000557	-6.26E-05	
248	-0.000453	-2.69E-05	-8.18E-05
-6.01E-06	-0.000451	-5.06E-05	
249	-0.000453	-2.45E-05	-0.001509
-6.68E-05	-0.000383	-4.79E-05	
250	-0.000453	-3.04E-05	-0.003834
-0.000206	-0.000334	-4.38E-05	
251	-0.000453	-4.22E-05	-0.006131
-0.000322	-0.000299	-3.74E-05	
252	-0.000453	-5.19E-05	-0.008038
-0.000406	-0.000292	-3.46E-05	
253	-0.000453	-5.76E-05	-0.009115
-0.000449	-0.000271	-3.13E-05	
254	-0.000453	-6.04E-05	-0.009139
-0.000458	-0.000314	-3.49E-05	
255	-0.000454	-5.77E-05	-0.008106
-0.000428	-0.000463	-4.39E-05	
256	-0.000454	-5.48E-05	-0.006221
-0.000351	-0.000574	-5.31E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
257	-0.000454	-5.37E-05	-0.003916
-0.000237	-0.000615	-5.67E-05	
258	-0.000454	-5.09E-05	-0.001551
-9.57E-05	-0.000572	-4.84E-05	
259	-0.000454	-4.91E-05	-0.000102
-1.16E-05	-0.000482	-4.08E-05	
260	-0.000454	-4.74E-05	-0.002479
-9.90E-05	-0.000434	-3.78E-05	
261	-0.000455	-4.77E-05	-0.005141
-0.000234	-0.000338	-3.19E-05	
262	-0.000455	-4.91E-05	-0.007675
-0.000347	-0.000254	-2.83E-05	
263	-0.000455	-4.93E-05	-0.009705
-0.000434	-0.000186	-2.94E-05	
264	-0.000455	-4.63E-05	-0.010856
-0.000491	-0.000184	-3.17E-05	
265	-0.000455	-3.73E-05	-0.010908
-0.000516	-0.000298	-4.74E-05	
266	-0.000455	-2.37E-05	-0.009807
-0.000505	-0.000468	-4.90E-05	
267	-0.000455	-1.73E-05	-0.007655
-0.000457	-0.000638	-6.39E-05	
268	-0.000454	-2.16E-05	-0.004698
-0.000345	-0.000775	-7.86E-05	
269	-0.000454	-3.02E-05	-0.001184
-0.000112	-0.000796	-5.50E-05	
270	-0.000453	-3.25E-05	-0.000140
-4.31E-05	-0.000750	-6.60E-05	
271	-0.000651	-7.35E-06	.000000
-9.65E-05	-0.000230	-4.40E-06	
272	-0.000668	-3.80E-05	.000000
-4.36E-05	-0.000413	-5.47E-06	
273	.000000	.000000	.000000
-2.76E-05	-0.000442	-5.04E-06	
274	-0.000707	-3.60E-06	.000000
-2.28E-05	-0.000458	-5.71E-06	
275	-0.000572	-1.61E-05	.000000
-6.36E-05	-0.000474	-5.23E-06	
276	-0.000536	-5.28E-06	.000000
-0.000112	-0.000910	-8.67E-06	
277	-0.000591	-3.27E-05	.000000
-7.85E-05	-0.000212	-4.63E-06	
278	-0.000895	-3.54E-05	.000000
-4.17E-05	-0.000377	-2.53E-06	
279	.000000	.000000	.000000
-2.63E-05	-0.000406	-1.96E-06	
280	-0.000659	-3.35E-06	.000000
-2.15E-05	-0.000420	-2.37E-06	
281	-0.000518	-1.16E-05	.000000
-2.50E-05	-0.000440	-2.21E-06	
282	-0.000536	-2.44E-05	.000000
-4.57E-05	-0.000833	-4.85E-06	
283	-0.000421	-8.08E-05	.000000
-0.000151	-0.000183	-7.88E-06	
284	-0.000784	-2.50E-05	.000000
-0.000130	-0.000289	-3.78E-06	
285	-2.53E-06	-8.54E-05	.000000
-6.38E-05	-0.000343	-5.93E-06	
286	-0.000549	-0.000203	.000000
-3.88E-05	-0.000364	-4.07E-06	
287	-0.000427	-0.000166	.000000
-3.52E-05	-0.000380	-3.54E-06	
288	-0.000435	-0.000150	.000000
-7.78E-05	-0.000664	-2.71E-06	

COMB DB-G2-4 ---------- MAX

JOINT	U1	U2	U3
	R1	R2	R3
1	0.000537	9.12E-05	4.49E-08
6.18E-05	0.000660	8.32E-06	
2	0.000536	1.40E-05	0.001085
0.000136	0.000615	6.52E-06	
3	0.000535	0.000116	0.002190
0.000212	0.000488	3.74E-06	
4	0.000535	0.000124	0.003111
0.000260	0.000316	2.60E-06	
5	0.000535	0.000125	0.003757
0.000284	0.000130	2.13E-06	
6	0.000535	0.000115	0.004035
0.000286	5.85E-06	2.35E-06	
7	0.000536	9.70E-05	0.003855
0.000260	8.74E-05	3.59E-06	
8	0.000536	7.34E-05	0.003152
0.000205	0.000159	4.78E-06	
9	0.000537	4.88E-05	0.001867
0.000127	0.000317	6.03E-06	
10	0.000537	2.87E-05	5.81E-08
6.70E-05	0.000430	6.26E-06	
11	0.000537	3.58E-05	0.001306
7.41E-05	0.000495	6.69E-06	
12	0.000539	5.12E-05	0.002717
0.000155	0.000529	5.88E-06	
13	0.000539	6.93E-05	0.003597
0.000222	0.000487	4.78E-06	
14	0.000539	8.39E-05	0.003994
0.000267	0.000370	3.95E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
29	0.000540	9.27E-05	0.003958
0.000289	0.000202	3.32E-06	
16	0.000540	9.33E-05	0.004305
0.000298	0.000112	2.98E-06	
17	0.000541	8.50E-05	0.004369
0.000285	0.000151	3.69E-06	
18	0.000541	6.83E-05	0.003939
0.000243	0.000167	4.20E-06	
19	0.000541	4.54E-05	0.002979
0.000176	0.000250	5.18E-06	
20	0.000541	2.16E-05	0.001433
9.30E-05	0.000370	6.07E-06	
21	0.000541	2.42E-05	5.93E-08
5.03E-05	0.000451	5.96E-06	
22	0.000540	3.67E-05	0.001405
8.10E-05	0.000516	6.45E-06	
23	0.000540	5.93E-05	0.002933
0.000165	0.000552	5.80E-06	
24	0.000539	8.21E-05	0.003902
0.000234	0.000511	4.90E-06	
25	0.000539	0.000100	0.004360
0.000279	0.000443	4.12E-06	
26	0.000538	0.000111	0.004317
0.000299	0.000210	3.51E-06	
27	0.000537	0.000113	0.004500
0.000301	0.000122	3.03E-06	
28	0.000537	0.000104	0.004550
0.000292	0.000165	3.88E-06	
29	0.000536	8.70E-05	0.004075
0.000236	0.000182	4.23E-06	
30	0.000536	6.38E-05	0.003066
0.000167	0.000260	5.33E-06	
31	0.000535	3.90E-05	0.001469
8.22E-05	0.000380	6.35E-06	
32	0.000535	2.40E-05	6.35E-08
4.93E-05	0.000461	6.58E-06	
33	0.000535	2.46E-05	0.001457
9.30E-05	0.000525	7.17E-06	
34	0.000534	5.10E-05	0.003046
0.000178	0.000560	6.58E-06	
35	0.000534	7.70E-05	0.004059
0.000247	0.000518	5.54E-06	
36	0.000534	9.74E-05	0.004544
0.000290	0.000394	4.93E-06	
37	0.000533	0.000109	0.004579
0.000305	0.000212	4.54E-06	
38	0.000533	0.000111	0.005092
0.000298	0.000124	3.99E-06	
39	0.000533	0.000105	0.005146
0.000274	0.000170	3.71E-06	
40	0.000533	9.19E-05	0.004607
0.000227	0.000190	4.11E-06	
41	0.000533	7.39E-05	0.003465
0.000158	0.000293	5.18E-06	
42	0.000533	5.47E-05	0.001661
7.56E-05	0.000428	6.35E-06	
43	0.000533	4.68E-05	5.83E-08
6.82E-05	0.000520	7.05E-06	
44	0.000533	3.25E-05	0.002121
0.000136	0.000614	8.53E-06	
45	0.000533	5.91E-05	0.003684
0.000221	0.000631	7.95E-06	
46	0.000532	8.65E-05	0.004675
0.000287	0.000562	7.15E-06	
47	0.000532	0.000112	0.005136
0.000323	0.000416	6.70E-06	
48	0.000532	0.000132	0.005118
0.000337	0.000221	6.26E-06	
49	0.000532	0.000142	0.004690
0.000327	0.000134	5.51E-06	
50	0.000532	0.000143	0.003932
0.000295	0.000177	4.60E-06	
51	0.000531	0.000136	0.002918
0.000242	0.000221	4.39E-06	
52	0.000531	0.000123	0.001722
0.000165	0.000252	4.73E-06	
53	0.000531	0.000112	0.000406
5.96E-05	0.000268	5.74E-06	
54	0.000532	0.000112	4.12E-08
4.52E-05	0.000270	5.86E-06	
55	0.000540	7.77E-05	2.94E-08
4.51E-05	0.000681	4.32E-06	
56	0.000540	7.20E-05	0.001057
0.000106	0.000629	3.37E-06	
57	0.000540	7.23E-05	0.002136
0.000191	0.000496	2.02E-06	
58	0.000540	7.06E-05	0.003035
0.000252	0.000332	1.24E-06	
59	0.000540	6.52E-05	0.003667
0.000282	0.000137	8.72E-07	
60	0.000540	5.64E-05	0.003939
0.000279	1.83E-05	9.54E-07	
61	0.000540	4.66E-05	0.003768
0.000248	8.46E-05	1.22E-06	
62	0.000540	3.91E-05	0.003090
0.000191	0.000193	1.99E-06	
63	0.000541	3.48E-05	0.001842
0.000109	0.000310	3.05E-06	
64	0.000541	3.34E-05	4.67E-08
4.30E-05	0.000432	2.10E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
65	0.000541	2.93E-05	0.001294
7.89E-05	0.000503	2.64E-06	
66	0.000542	2.24E-05	0.002671
0.000156	0.000540	2.59E-06	
67	0.000542	2.16E-05	0.003522
0.000222	0.000498	2.12E-06	
68	0.000543	2.43E-05	0.003908
0.000270	0.000381	1.64E-06	
69	0.000543	2.67E-05	0.003857
0.000292	0.000214	1.14E-06	
70	0.000543	2.57E-05	0.004216
0.000297	0.000109	1.00E-06	
71	0.000543	2.12E-05	0.004278
0.000277	0.000148	1.20E-06	
72	0.000544	1.44E-05	0.003861
0.000227	0.000164	1.42E-06	
73	0.000544	1.34E-05	0.002930
0.000158	0.000245	1.94E-06	
74	0.000543	1.73E-05	0.001420
7.38E-05	0.000366	2.66E-06	
75	0.000543	2.26E-05	4.80E-08
2.52E-05	0.000453	1.91E-06	
76	0.000543	2.50E-05	0.001392
7.33E-05	0.000525	2.51E-06	
77	0.000543	2.95E-05	0.002885
0.000156	0.000565	2.61E-06	
78	0.000542	3.85E-05	0.003825
0.000227	0.000528	2.29E-06	
79	0.000542	4.66E-05	0.004270
0.000277	0.000405	1.81E-06	
80	0.000542	5.18E-05	0.004227
0.000299	0.000226	1.29E-06	
81	0.000542	5.29E-05	0.004408
0.000301	0.000120	9.63E-07	
82	0.000542	4.98E-05	0.004457
0.000280	0.000163	1.14E-06	
83	0.000542	4.23E-05	0.003995
0.000229	0.000180	1.44E-06	
84	0.000542	3.31E-05	0.003014
0.000159	0.000254	2.01E-06	
85	0.000541	2.65E-05	0.001454
7.41E-05	0.000375	2.39E-06	
86	0.000541	2.27E-05	5.38E-08
2.33E-05	0.000463	2.60E-06	
87	0.000541	1.67E-05	0.001442
7.31E-05	0.000535	3.19E-06	
88	0.000541	1.31E-05	0.002995
0.000159	0.000575

113	0.000526	8.59E-05	0.003595
0.000179	0.000115	2.31E-06	
114	0.000526	8.58E-05	0.003864
0.000183	2.22E-05	1.44E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000527	7.72E-05	0.003695
0.000168	8.41E-05	2.66E-06	
116	0.000527	6.23E-05	0.003024
0.000130	0.000192	4.07E-06	
117	0.000527	4.25E-05	0.001793
7.64E-05	0.000306	5.06E-06	
118	0.000527	3.14E-05	5.39E-08
3.62E-05	0.000416	5.33E-06	
119	0.000528	2.96E-05	0.001254
4.26E-05	0.000478	5.25E-06	
120	0.000528	4.30E-05	0.002609
9.84E-05	0.000509	4.74E-06	
121	0.000528	5.89E-05	0.003453
0.000142	0.000466	4.34E-06	
122	0.000528	6.97E-05	0.003835
0.000170	0.000350	3.77E-06	
123	0.000528	7.65E-05	0.003799
0.000183	0.000188	2.93E-06	
124	0.000528	8.00E-05	0.004141
0.000191	0.000110	2.71E-06	
125	0.000528	7.49E-05	0.004203
0.000185	0.000146	3.72E-06	
126	0.000528	6.17E-05	0.003790
0.000158	0.000162	4.40E-06	
127	0.000528	4.25E-05	0.002869
0.000111	0.000243	4.88E-06	
128	0.000528	2.20E-05	0.001381
5.26E-05	0.000350	5.53E-06	
129	0.000527	1.83E-05	5.44E-08
2.43E-05	0.000439	5.67E-06	
130	0.000527	3.08E-05	0.001353
4.59E-05	0.000502	5.51E-06	
131	0.000528	5.40E-05	0.002824
0.000105	0.000537	4.89E-06	
132	0.000528	7.34E-05	0.003756
0.000151	0.000496	4.32E-06	
133	0.000528	8.72E-05	0.004195
0.000180	0.000378	3.66E-06	
134	0.000529	9.34E-05	0.004154
0.000190	0.000203	2.86E-06	
135	0.000529	9.27E-05	0.004331
0.000191	0.000139	3.09E-06	
136	0.000530	8.67E-05	0.004378
0.000182	0.000161	4.00E-06	
137	0.000530	7.26E-05	0.003922
0.000153	0.000178	4.61E-06	
138	0.000530	5.22E-05	0.002951
0.000107	0.000230	5.09E-06	
139	0.000530	2.78E-05	0.001415
4.68E-05	0.000370	5.72E-06	
140	0.000530	1.83E-05	5.85E-08
2.33E-05	0.000450	5.88E-06	
141	0.000530	2.73E-05	0.001403
5.31E-05	0.000514	5.75E-06	
142	0.000530	4.96E-05	0.002932
0.000113	0.000549	5.13E-06	
143	0.000530	7.03E-05	0.003905
0.000161	0.000509	4.47E-06	
144	0.000530	8.57E-05	0.004371
0.000189	0.000391	4.06E-06	
145	0.000530	9.26E-05	0.004410
0.000196	0.000214	3.83E-06	
146	0.000530	9.07E-05	0.004896
0.000190	0.000121	3.79E-06	
147	0.000530	8.06E-05	0.004946
0.000177	0.000166	4.40E-06	
148	0.000529	6.90E-05	0.004428
0.000147	0.000185	4.78E-06	
149	0.000529	5.35E-05	0.003330
0.000102	0.000285	5.24E-06	
150	0.000529	4.12E-05	0.001596
4.41E-05	0.000417	5.97E-06	
151	0.000529	3.85E-05	5.52E-08
4.18E-05	0.000507	6.20E-06	
152	0.000530	4.32E-05	0.002039
8.67E-05	0.000501	6.08E-06	
153	0.000530	6.41E-05	0.003538
0.000147	0.000620	5.59E-06	
154	0.000530	8.41E-05	0.004485
0.000196	0.000556	5.23E-06	
155	0.000530	9.84E-05	0.004923
0.000225	0.000419	5.06E-06	
156	0.000530	0.000105	0.004902
0.000232	0.000231	5.24E-06	
157	0.000530	0.000105	0.004490
0.000219	0.000116	5.11E-06	
158	0.000530	9.74E-05	0.003761
0.000195	0.000173	5.63E-06	
159	0.000530	8.57E-05	0.002789
0.000155	0.000214	6.55E-06	
160	0.000530	7.50E-05	0.001644
9.88E-05	0.000244	7.26E-06	
161	0.000530	7.72E-05	0.000387
3.46E-05	0.000259	7.62E-06	
162	0.000530	7.92E-05	4.04E-08
3.45E-05	0.000260	7.60E-06	
163	0.000539	7.71E-05	5.83E-05
3.97E-05	0.000815	9.19E-05	
164	0.000538	8.66E-05	0.001067
0.000127	0.000721	6.85E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000538	9.78E-05	0.002160
0.000261	0.000538	5.89E-05	
166	0.000538	0.000104	0.003070
0.000330	0.000426	4.89E-05	
167	0.000537	0.000101	0.003710
0.000362	0.000242	4.23E-05	
168	0.000537	9.01E-05	0.003985
0.000362	0.000112	4.09E-05	
169	0.000537	7.53E-05	0.003810
0.000327	0.000172	4.05E-05	
170	0.000538	5.84E-05	0.003120
0.000257	0.000272	4.17E-05	
171	0.000538	4.01E-05	0.001851
0.000146	0.000388	4.84E-05	
172	0.000538	2.61E-05	2.77E-05
3.89E-05	0.000480	5.11E-05	
173	0.000539	2.97E-05	0.001296
8.43E-05	0.000578	5.73E-05	
174	0.000539	3.87E-05	0.002694
0.000202	0.000633	6.60E-05	
175	0.000540	4.91E-05	0.003560
0.000287	0.000596	6.40E-05	
176	0.000540	5.18E-05	0.003951
0.000342	0.000479	5.76E-05	
177	0.000541	6.78E-05	0.003900
0.000366	0.000314	4.75E-05	
178	0.000541	6.65E-05	0.004260
0.000375	0.000208	4.51E-05	
179	0.000541	5.77E-05	0.004323
0.000359	0.000233	4.47E-05	
180	0.000541	4.26E-05	0.003900
0.000306	0.000242	4.59E-05	
181	0.000541	2.79E-05	0.002954
0.000218	0.000318	4.90E-05	
182	0.000541	1.14E-05	0.001423
9.28E-05	0.000406	4.92E-05	
183	0.000541	1.77E-05	2.62E-05
2.03E-05	0.000493	5.11E-05	
184	0.000541	2.79E-05	0.001394
8.75E-05	0.000600	6.24E-05	
185	0.000540	4.67E-05	0.002909
0.000209	0.000657	7.16E-05	
186	0.000540	6.61E-05	0.003864
0.000298	0.000622	6.93E-05	
187	0.000540	8.28E-05	0.004315
0.000355	0.000500	6.10E-05	
188	0.000539	9.27E-05	0.004271
0.000377	0.000324	4.77E-05	
189	0.000539	9.38E-05	0.004453
0.000379	0.000219	3.62E-05	
190	0.000539	8.60E-05	0.004502
0.000358	0.000247	3.37E-05	
191	0.000538	7.04E-05	0.004035
0.000302	0.000256	3.39E-05	
192	0.000538	5.04E-05	0.003039
0.000213	0.000328	3.89E-05	
193	0.000538	3.06E-05	0.001458
9.02E-05	0.000416	4.22E-05	
194	0.000538	1.81E-05	2.68E-05
1.85E-05	0.000503	4.39E-05	
195	0.000537	1.29E-05	0.001446
9.39E-05	0.000610	5.41E-05	
196	0.000537	3.12E-05	0.003020
0.000221	0.000666	6.29E-05	
197	0.000537	5.36E-05	0.004018
0.000311	0.000630	5.91E-05	
198	0.000537	7.33E-05	0.004496
0.000366	0.000506	4.97E-05	
199	0.000536	8.78E-05	0.004517
0.000383	0.000328	4.18E-05	
200	0.000536	9.40E-05	0.005041
0.000376	0.000222	4.03E-05	
201	0.000536	9.14E-05	0.005094
0.000352	0.000252	4.02E-05	
202	0.000536	8.04E-05	0.004565
0.000295	0.000263	4.01E-05	
203	0.000536	6.45E-05	0.003440
0.000207	0.000361	4.14E-05	
204	0.000537	4.79E-05	0.001657
8.84E-05	0.000464	4.49E-05	
205	0.000537	3.97E-05	4.06E-05
4.33E-05	0.000590	5.30E-05	
206	0.000536	3.00E-05	0.002096
0.000150	0.000714	6.67E-05	
207	0.000536	3.54E-05	0.003642
0.000268	0.000737	6.89E-05	
208	0.000536	5.50E-05	0.004619
0.000350	0.000672	6.37E-05	
209	0.000537	8.05E-05	0.005075
0.000398	0.000529	5.24E-05	
210	0.000537	0.000101	0.005057
0.000415	0.000338	3.85E-05	
211	0.000537	0.000117	0.004635
0.000404	0.000231	3.41E-05	
212	0.000537	0.000123	0.003886
0.000368	0.000258	3.35E-05	
213	0.000537	0.000120	0.002885
0.000303	0.000287	3.40E-05	
214	0.000537	0.000109	0.001704
0.000196	0.000305	3.45E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000537	9.54E-05	0.000404
3.44E-05	0.000265	2.36E-05	
216	0.000537	9.02E-05	5.02E-05
3.30E-05	0.000266	2.89E-05	
217	0.000532	7.30E-05	6.32E-05
5.87E-05	0.000810	8.85E-05	
218	0.000532	5.69E-05	0.001049
0.000112	0.000706	6.65E-05	
219	0.000532	4.98E-05	0.002115
0.000214	0.000577	5.60E-05	
220	0.000532	5.55E-05	0.003004
0.000282	0.000407	4.69E-05	
221	0.000532	5.83E-05	0.003629
0.000311	0.000234	4.08E-05	
222	0.000532	5.61E-05	0.003899
0.000306	0.000175	4.16E-05	
223	0.000533	5.03E-05	0.003728
0.000274	0.000174	4.36E-05	
224	0.000533	4.13E-05	0.003052
0.000218	0.000271	4.69E-05	
225	0.000533	3.74E-05	0.001807
0.000140	0.000387	5.28E-05	
226	0.000533	3.14E-05	3.02E-05
7.08E-05	0.000476	5.42E-05	
227	0.000534	2.74E-05	0.001261
0.000115	0.000570	5.95E-05	
228	0.000534	2.59E-05	0.002634
0.000188	0.000622	6.79E-05	
229	0.000534	3.39E-05	0.003484
0.000246	0.000584	6.59E-05	
230	0.000535	4.43E-05	0.003869
0.000290	0.000467	5.96E-05	
231	0.000535	5.19E-05	0.003819
0.000312	0.000306	5.14E-05	
232	0.000535	5.31E-05	0.004176
0.000315	0.000208	4.40E-05	
233	0.000535	4.73E-05	0.004238
0.000298	0.000232	3.79E-05	
234	0.000535	3.72E-05	0.003823
0.000253	0.000240	3.51E-05	
235	0.000535	2.57E-05	0.002894
0.000189	0.000316	3.65E-05	
236	0.000535	1.73E-05	0.001389
0.000104	0.000403	4.08E-05	
237	0.000535	1.92E-05	2.89E-05
4.82E-05	0.000488	4.50E-05	
238	0.000535	2.33E-05	0.001361
0.000106	0.000592	5.69E-05	
239	0.000535	3.80E-05	0.002849
0.000184	0.000648	6.77E-05	
240	0.000534	5.27E-05	0.003788
0.000247	0.000613	6.73E-05	
241	0.000535	6.46E-05	0.004230
0.000294	0.000493	6.05E-05	
242	0.000535	7.07E-05	0.004189
0.000312	0.000319	5.01E-05	
243	0.000535	7.13E-05	0.004367
0.000314	0.000216	4.55E-05	
244	0.000535	6.37E-05	0.004415
0.000296	0.000244	4.48E-05	
245	0.000535	5.11E-05	0.003956
0.000250	0.000254	4.42E-05	
246	0.000535	3.61E-05	0.002978
0.000187	0.000324	4.40E-05	
247	0.000535	2.20E-05	0.001424
0.000107	0.000412	4.40E-05	
248	0.000535	1.93E-05	2.94E-05
4.63E-05	0.000497	4.62E-05	
249	0.000535	1.89E-05	0.001412
0.000105	0.000602	5.63E-05	
250	0.000535	2.98E-05	0.002958
0.000191	0.000659	6.38E-05	
251	0.000535	4.69E-05	0.003939
0.000257	0.000625	6.01E-05	
252	0.000534	6.20E-05	0.004408
0.000304	0.000504	5.07E-05	
253	0.000534	7.17E-05	0.004433
0.000321	0.000328	4.32E-05	
254	0.000534	7.40E-05	0.004938
0.000320	0.000217	3.88E-05	
255	0.000534	6.86E-05	0.004987
0.000299	0.000247	3.76E-05	
256	0.000534	5.70E-05	0.004464
0.000254	0.000259	3.85E-05	
257	0.000534	4.77E-05	0.003356
0.000194	0.000356	4.31E-05	
258	0.000534	4.24E-05	0.001599
0.000120	0.000460	4.43E-05	
259	0.000534	3.95E-05	3.64E-05
7.32E-05	0.000582	5.22E-05	
260	0.000535	3.78E-05	0.002060
0.000142	0.000702	6.81E-05	
261	0.000535	4.02E-05	0.003573
0.000225	0.000729	7.02E-05	
262	0.000535	5.15E-05	0.004527
0.000292	0.000669	6.33E-05	
263	0.000535	6.73E-05	0.004970
0.000339	0.000530	5.22E-05	
264	0.000535	8.01E-05	0.004950
0.000362	0.000343	4.23E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000535	8.58E-05	0.004535
0.000359	0.000211	3.70E-05	
266	0.000535	8.35E-05	0.003800
0.000327	0.000251	3.70E-05	
267	0.000535	7.92E-05	0.002819
0.000261	0.000282	3.77E-05	
268	0.000535	7.94E-05	0.001662
0.000164	0.000301	3.86E-05	
269	0.000534	8.23E-05	0.000390
3.73E-05	0.000262	2.58E-05	
270	0.000534	8.15E-05	5.84E-05
4.42E-05	0.000263	3.16E-05	
271	0.000455	9.67E-06	.000000
7.68E-05	0.000660	8.32E-06	
272	0.000695	5.43E-05	.000000
7.65E-05	0.000427	6.26E-06	
273	.000000	.000000	.000000
5.62E-05	0.000449	5.96E-06	
274	0.001019	2.57E-06	.000000
5.18E-05	0.000460	6.58E-06	
275	0.000450	1.98E-05	.000000
9.78E-05	0.000514	7.05E-06	
276	0.001028	1.01E-05	.000000
4.29E-05	0.000270	5.86E-06	
277	0.000457	4.92E-05	.000000
9.12E-05	0.000678	4.32E-06	
278	0.000697	5.45E-05	.000000
4.91E-05	0.000430	2.10E-06	
279	0.000900	2.61E-06	.000000
3.15E-05	0.000452	1.91E-06	
280	0.001025	2.58E-06	.000000
2.60E-05	0.000463	2.60E-06	
281	0.000452	1.01E-05	.000000
3.11E-05	0.000521	2.96E-06	
282	0.001042	5.02E-05	.000000
2.49E-05	0.000467	3.91E-06	
283	0.000450	2.38E-05	.000000
0.000138	0.000622	6.25E-06	
284	0.000677	1.48E-05	.000000
0.000108	0.000400	5.33E-06	
285	9.14E-07	3.09E-05	.000000
3.15E-05	0.000539	5.67E-06	
286	0.000972	0.000220	.000000
9.93E-24	0.000445	5.88E-06	
287	0.000426	9.38E-05	.000000
-7.44E-22	0.000505	6.20E-06	
288	0.000989	0.000167	.000000
1.23E-05	0.000263	7.60E-06	

COMB DB-G2-4 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000524	-7.19E-05	-2.17E-07
-8.67E-05	-0.000243	-6.35E-06	
2	-0.000524	-7.46E-05	-0.002898
-0.000123	-0.000232	-5.36E-06	
3	-0.000523	-9.40E-05	-0.005650
-0.000165	-0.000203	-3.60E-06	
4	-0.000523	-0.000107	-0.007577
-0.000187	-0.000158	-3.12E-06	
5	-0.000523	-0.000111	-0.008419
-0.000187	-0.000115	-3.85E-06	
6	-0.000523	-0.000107	-0.008091
-0.000175	-0.000213	-4.45E-06	
7	-0.000524	-9.54E-05	-0.006714
-0.000151	-0.000368	-5.16E-06	
8	-0.000524	-7.65E-05	-0.004625
-0.000111	-0.000461	-6.12E-06	
9	-0.000525	-6.44E-05	-0.002241
-5.79E-05	-0.000473	-7.08E-06	
10	-0.000525	-6.15E-05	-2.69E-07
-3.31E-05	-0.000408	-6.33E-06	
11	-0.000525	-6.47E-05	-0.001625
-6.09E-05	-0.000335	-6.33E-06	
12	-0.000525	-7.03E-05	-0.004205
-0.000122	-0.000227	-5.28E-06	
13	-0.000527	-8.43E-05	-0.006736
-0.000170	-0.000181	-4.16E-06	
14	-0.000527	-9.62E-05	-0.008797
-0.000199	-0.000164	-3.60E-06	
15	-0.000528	-0.000100	-0.009944
-0.000205	-0.000222	-3.39E-06	
16	-0.000528	-9.55E-05	-0.009960
-0.000195	-0.000192	-3.39E-06	
17	-0.000528	-8.59E-05	-0.008840
-0.000182	-0.000360	-3.98E-06	
18	-0.000529	-7.41E-05	-0.006793
-0.000152	-0.000482	-4.70E-06	
19	-0.000528	-6.56E-05	-0.004257
-0.000104	-0.000529	-5.69E-06	
20	-0.000528	-6.19E-05	-0.001654
-4.40E-05	-0.000501	-6.37E-06	
21	-0.000528	-6.03E-05	-2.69E-07
-2.02E-05	-0.000440	-5.97E-06	
22	-0.000528	-5.86E-05	-0.001695
-5.20E-05	-0.000363	-6.10E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	-0.000527	-6.66E-05	-0.004384
-0.000114	-0.000249	-5.27E-06	
24	-0.000527	-8.33E-05	-0.007037
-0.000164	-0.000190	-4.33E-06	
25	-0.000527	-9.49E-05	-0.009222
-0.000194	-0.000173	-3.87E-06	
26	-0.000526	-9.86E-05	-0.010441
-0.000205	-0.000128	-3.05E-06	
27	-0.000526	-0.000102	-0.010451
-0.000205	-0.000207	-3.36E-06	
28	-0.000525	-9.84E-05	-0.009249
-0.000194	-0.000387	-4.05E-06	
29	-0.000525	-8.62E-05	-0.007072
-0.000163	-0.000510	-4.83E-06	
30	-0.000524	-6.75E-05	-0.004417
-0.000114	-0.000553	-5.84E-06	
31	-0.000524	-5.85E-05	-0.001713
-5.07E-05	-0.000520	-6.59E-06	
32	-0.000524	-6.06E-05	-2.69E-07
-1.84E-05	-0.000457	-6.49E-06	
33	-0.000524	-6.18E-05	-0.001731
-4.63E-05	-0.000378	-6.79E-06	
34	-0.000523	-6.49E-05	-0.004472
-0.000108	-0.000260	-5.95E-06	
35	-0.000523	-7.54E-05	-0.007173
-0.000157	-0.000154	-5.94E-06	
36	-0.000522	-9.65E-05	-0.009404
-0.000188	-0.000196	-4.37E-06	
37	-0.000522	-0.000111	-0.010658
-0.000202	-0.000145	-3.38E-06	
38	-0.000522	-0.000118	-0.010687
-0.000211	-0.000209	-2.99E-06	
39	-0.000522	-0.000115	-0.009482
-0.000203	-0.000393	-3.73E-06	
40	-0.000521	-0.000105	-0.007276
-0.000173	-0.000520	-4.51E-06	
41	-0.000521	-8.79E-05	-0.004567
-0.000122	-0.000567	-5.71E-06	
42	-0.000521	-8.56E-05	-0.001784
-6.06E-05	-0.000539	-6.27E-06	
43	-0.000521	-9.40E-05	-2.81E-07
-2.97E-05	-0.000479	-6.18E-06	
44	-0.000521	-8.82E-05	-0.002866
-6.44E-05	-0.000371	-6.54E-06	
45	-0.000521	-8.46E-05	-0.006018
-0.000125	-0.000256	-5.37E-06	
46	-0.000520	-8.87E-05	-0.009017
-0.000175	-0.000145	-4.19E-06	
47	-0.000520	-9.24E-05	-0.011407
-0.000210	-4.43E-05	-3.19E-06	
48	-0.000520	-9.58E-05	-0.012769
-0.000232	-3.91E-05	-2.18E-06	
49	-0.000520	-9.58E-05	-0.012849
-0.000245	-0.000211	-2.21E-06	
50	-0.000519	-8.89E-05	-0.011574
-0.000240	-0.000425	-2.93E-06	
51	-0.000519	-7.62E-05	-0.009051
-0.000213	-0.000625	-3.78E-06	
52	-0.000519	-5.94E-05	-0.005536
-0.000166	-0.000787	-4.90E-06	
53	-0.000519	-4.82E-05	-0.001327
-0.000120	-0.000879	-7.03E-06	
54	-0.000519	-4.99E-05	-2.21E-07
-0.000109	-0.000884	-7.39E-06	
55	-0.000527	-6.58E-05	-3.83E-07
-9.61E-05	-0.000239	-4.22E-06	
56	-0.000527	-5.47E-05	-0.002981
-0.000156	-0.000229	-3.27E-06	
57	-0.000527	-5.03E-05	-0.005802
-0.000234	-0.000200	-1.75E-06	
58	-0.000527	-4.82E-05	-0.007779
-0.000283	-0.000155	-1.56E-06	
59	-0.000527	-4.69E-05	-0.008641
-0.000297	-0.000103	-2.07E-06	
60	-0.000527	-4.55E-05	-0.008304
-0.000278	-0.000239	-2.57E-06	
61	-0.000527	-4.31E-05	-0.006879
-0.000233	-0.000392	-2.99E-06	
62	-0.000528	-3.98E-05	-0.004723
-0.000169	-0.000483	-3.28E-06	
63	-0.000529	-3.54E-05	-0.002276
-9.43E-05	-0.000490	-3.22E-06	
64	-0.000529	-3.24E-05	-4.81E-07
-3.76E-05	-0.000412	-2.37E-06	
65	-0.000530	-2.94E-05	-0.001637
-8.35E-05	-0.000332	-2.89E-06	
66	-0.000530	-2.99E-05	-0.004265
-0.000177	-0.000222	-2.05E-06	
67	-0.000531	-3.13E-05	-0.006856
-0.000252	-0.000178	-1.48E-06	
68	-0.000531	-3.08E-05	-0.008973
-0.000301	-0.000162	-1.17E-06	
69	-0.000532	-2.82E-05	-0.010154
-0.000318	-0.000120	-9.76E-07	
70	-0.000532	-2.44E-05	-0.010171
-0.000308	-0.000212	-1.25E-06	
71	-0.000532	-2.18E-05	-0.009018
-0.000279	-0.000380	-1.72E-06	
72	-0.000532	-2.01E-05	-0.006915
-0.000223	-0.000500	-2.16E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	-0.000532	-2.01E-05	-0.004319
-0.000151	-0.000546	-2.55E-06	
74	-0.000531	-2.44E-05	-0.001667
-6.72E-05	-0.000512	-2.47E-06	
75	-0.000531	-3.02E-05	-4.81E-07
-1.88E-05	-0.000443	-1.90E-06	
76	-0.000531	-3.35E-05	-0.001707
-7.19E-05	-0.000359	-2.62E-06	
77	-0.000531	-3.65E-05	-0.004442
-0.000163	-0.000243	-2.07E-06	
78	-0.000531	-3.83E-05	-0.007155
-0.000240	-0.000188	-1.54E-06	
79	-0.000531	-3.84E-05	-0.009398
-0.000294	-0.000170	-1.32E-06	
80	-0.000530	-3.69E-05	-0.010653
-0.000318	-0.000126	-1.07E-06	
81	-0.000530	-3.99E-05	-0.010663
-0.000319	-0.000223	-1.15E-06	
82	-0.000530	-4.22E-05	-0.009425
-0.000294	-0.000403	-1.67E-06	
83	-0.000530	-4.21E-05	-0.007190
-0.000240	-0.000525	-2.18E-06	
84	-0.000530	-3.95E-05	-0.004474
-0.000163	-0.000567	-2.67E-06	
85	-0.000530	-3.47E-05	-0.001725
-7.18E-05	-0.000530	-2.99E-06	
86	-0.000530	-2.99E-05	-4.81E-07
-1.67E-05	-0.000459	-2.40E-06	
87	-0.000530	-2.33E-05	-0.001742
-6.76E-05	-0.000373	-3.04E-06	
88	-0.000529	-2.37E-05	-0.004526
-0.000154	-0.000254	-2.80E-06	
89	-0.000529	-2.22E-05	-0.007286
-0.000229	-0.000212	-2.60E-06	
90	-0.000529	-4.03E-05	-0.009575
-0.000286	-0.000193	-2.49E-06	
91	-0.000529	-5.08E-05	-0.010865
-0.000317	-0.000142	-2.18E-06	
92	-0.000529	-6.04E-05	-0.010896
-0.000327	-0.000221	-1.59E-06	
93	-0.000529

-0.000188	-0.000458	-4.31E-06	
117	-0.000517	-4.69E-05	-0.002152
-0.000109	-0.000466	-5.19E-06	
118	-0.000517	-3.04E-05	-2.64E-07
-8.54E-05	-0.000399	-5.56E-06	
119	-0.000517	-3.66E-05	-0.001563
-0.000125	-0.000327	-5.47E-06	
120	-0.000517	-5.81E-05	-0.004047
-0.000202	-0.000221	-4.91E-06	
121	-0.000517	-7.72E-05	-0.006484
-0.000272	-0.000176	-4.57E-06	
122	-0.000517	-8.98E-05	-0.008468
-0.000317	-0.000160	-3.94E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000516	-9.50E-05	-0.009572
-0.000332	-0.000119	-3.02E-06	
124	-0.000516	-9.31E-05	-0.009588
-0.000324	-0.000195	-2.73E-06	
125	-0.000516	-8.74E-05	-0.008511
-0.000298	-0.000258	-3.50E-06	
126	-0.000516	-7.66E-05	-0.006541
-0.000247	-0.000475	-4.02E-06	
127	-0.000515	-5.86E-05	-0.004101
-0.000175	-0.000519	-4.73E-06	
128	-0.000515	-3.98E-05	-0.001593
-9.43E-05	-0.000490	-5.48E-06	
129	-0.000515	-3.27E-05	-2.64E-07
-6.86E-05	-0.000430	-5.68E-06	
130	-0.000515	-3.78E-05	-0.001635
-0.000109	-0.000354	-5.57E-06	
131	-0.000515	-6.00E-05	-0.004228
-0.000189	-0.000242	-4.97E-06	
132	-0.000515	-7.83E-05	-0.006783
-0.000263	-0.000185	-4.58E-06	
133	-0.000516	-8.96E-05	-0.008889
-0.000312	-0.000168	-3.89E-06	
134	-0.000516	-9.23E-05	-0.010062
-0.000335	-0.000124	-2.80E-06	
135	-0.000516	-9.41E-05	-0.010071
-0.000335	-0.000202	-2.96E-06	
136	-0.000516	-9.01E-05	-0.008913
-0.000312	-0.000376	-3.84E-06	
137	-0.000517	-7.75E-05	-0.006815
-0.000262	-0.000496	-4.42E-06	
138	-0.000517	-5.77E-05	-0.004257
-0.000189	-0.000539	-5.04E-06	
139	-0.000517	-3.62E-05	-0.001651
-0.000108	-0.000507	-5.76E-06	
140	-0.000517	-3.34E-05	-2.63E-07
-6.68E-05	-0.000445	-5.98E-06	
141	-0.000517	-4.14E-05	-0.001669
-9.67E-05	-0.000367	-5.90E-06	
142	-0.000517	-6.08E-05	-0.004311
-0.000179	-0.000253	-5.32E-06	
143	-0.000517	-7.75E-05	-0.006914
-0.000253	-0.000210	-4.89E-06	
144	-0.000516	-8.86E-05	-0.009062
-0.000305	-0.000190	-4.19E-06	
145	-0.000516	-9.82E-05	-0.010270
-0.000332	-0.000140	-3.09E-06	
146	-0.000517	-0.000104	-0.010297
-0.000340	-0.000196	-3.03E-06	
147	-0.000517	-0.000100	-0.009136
-0.000323	-0.000374	-3.71E-06	
148	-0.000517	-8.71E-05	-0.007010
-0.000275	-0.000499	-4.18E-06	
149	-0.000517	-6.81E-05	-0.004400
-0.000203	-0.000547	-4.60E-06	
150	-0.000517	-5.92E-05	-0.001718
-0.000125	-0.000522	-5.21E-06	
151	-0.000517	-5.53E-05	-2.78E-07
-8.44E-05	-0.000464	-5.46E-06	
152	-0.000517	-6.55E-05	-0.002752
-0.000117	-0.000359	-5.96E-06	
153	-0.000517	-8.27E-05	-0.005777
-0.000202	-0.000248	-4.68E-06	
154	-0.000517	-9.61E-05	-0.008650
-0.000276	-0.000140	-3.49E-06	
155	-0.000517	-0.000101	-0.010936
-0.000330	-4.28E-05	-2.23E-06	
156	-0.000517	-9.55E-05	-0.012236
-0.000365	-5.09E-05	-1.88E-06	
157	-0.000517	-8.16E-05	-0.012307
-0.000380	-0.000190	-2.72E-06	
158	-0.000517	-6.57E-05	-0.011080
-0.000372	-0.000394	-3.79E-06	
159	-0.000517	-4.40E-05	-0.008660
-0.000337	-0.000590	-4.99E-06	
160	-0.000516	-2.77E-05	-0.005293
-0.000276	-0.000749	-6.17E-06	
161	-0.000516	-3.34E-05	-0.001268
-0.000190	-0.000843	-6.83E-06	
162	-0.000516	-3.58E-05	-2.09E-07
-0.000175	-0.000849	-6.90E-06	
163	-0.000526	-5.13E-05	-0.000121
-0.000156	-0.000250	-5.12E-06	
164	-0.000525	-6.19E-05	-0.002996
-0.000155	-0.000310	-4.42E-06	
165	-0.000525	-7.12E-05	-0.005816
-0.000244	-0.000277	-4.44E-06	
166	-0.000525	-7.63E-05	-0.007807
-0.000301	-0.000245	-4.36E-06	
167	-0.000525	-7.68E-05	-0.008673
-0.000319	-0.000219	-4.34E-06	
168	-0.000525	-7.38E-05	-0.008334
-0.000303	-0.000333	-4.42E-06	
169	-0.000525	-6.67E-05	-0.006901
-0.000263	-0.000483	-5.00E-06	
170	-0.000525	-5.59E-05	-0.004739
-0.000209	-0.000574	-5.46E-06	
171	-0.000526	-4.20E-05	-0.002294
-0.000141	-0.000580	-5.54E-06	
172	-0.000526	-3.24E-05	-6.28E-05
-6.55E-05	-0.000487	-4.65E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	-0.000527	-3.88E-05	-0.001657
-0.000106	-0.000380	-4.06E-05	
174	-0.000528	-4.89E-05	-0.004287
-0.000196	-0.000301	-3.88E-05	
175	-0.000528	-5.89E-05	-0.006880
-0.000264	-0.000257	-3.47E-05	
176	-0.000529	-6.54E-05	-0.009005
-0.000311	-0.000248	-3.51E-05	
177	-0.000529	-6.69E-05	-0.010195
-0.000329	-0.000220	-3.75E-05	
178	-0.000530	-6.36E-05	-0.010211
-0.000323	-0.000308	-4.73E-05	
179	-0.000530	-5.58E-05	-0.009050
-0.000298	-0.000473	-5.97E-05	
180	-0.000530	-4.62E-05	-0.006938
-0.000249	-0.000594	-6.78E-05	
181	-0.000529	-3.79E-05	-0.004340
-0.000185	-0.000636	-7.04E-05	
182	-0.000529	-3.29E-05	-0.001686
-0.000104	-0.000587	-6.17E-05	
183	-0.000529	-3.38E-05	-5.67E-05
-4.45E-05	-0.000484	-5.05E-05	
184	-0.000528	-3.53E-05	-0.001726
-0.000101	-0.000401	-4.87E-05	
185	-0.000528	-4.62E-05	-0.004465
-0.000187	-0.000318	-4.86E-05	
186	-0.000528	-5.66E-05	-0.007180
-0.000255	-0.000264	-4.54E-05	
187	-0.000528	-6.20E-05	-0.009431
-0.000305	-0.000254	-4.38E-05	
188	-0.000527	-6.33E-05	-0.010695
-0.000327	-0.000224	-4.40E-05	
189	-0.000527	-6.67E-05	-0.010704
-0.000328	-0.000321	-4.70E-05	
190	-0.000527	-6.60E-05	-0.009458
-0.000306	-0.000497	-5.76E-05	
191	-0.000527	-6.03E-05	-0.007215
-0.000256	-0.000621	-6.42E-05	
192	-0.000527	-4.91E-05	-0.004497
-0.000189	-0.000658	-6.62E-05	
193	-0.000526	-3.61E-05	-0.001744
-0.000103	-0.000604	-5.75E-05	
194	-0.000526	-3.35E-05	-5.75E-05
-4.21E-05	-0.000499	-4.69E-05	
195	-0.000526	-3.17E-05	-0.001762
-0.000105	-0.000413	-4.48E-05	
196	-0.000526	-3.95E-05	-0.004550
-0.000187	-0.000327	-4.21E-05	
197	-0.000526	-5.27E-05	-0.007313
-0.000253	-0.000286	-3.98E-05	
198	-0.000525	-6.66E-05	-0.009611
-0.000305	-0.000273	-3.85E-05	
199	-0.000525	-7.67E-05	-0.010911
-0.000330	-0.000238	-3.79E-05	
200	-0.000525	-8.21E-05	-0.010941
-0.000337	-0.000321	-4.18E-05	
201	-0.000525	-8.35E-05	-0.009694
-0.000318	-0.000501	-5.05E-05	
202	-0.000525	-7.94E-05	-0.007423
-0.000268	-0.000629	-5.66E-05	
203	-0.000525	-7.23E-05	-0.004654
-0.000198	-0.000670	-6.59E-05	
204	-0.000525	-6.65E-05	-0.001824
-0.000107	-0.000620	-5.72E-05	
205	-0.000525	-6.00E-05	-6.90E-05
-6.63E-05	-0.000526	-4.97E-05	
206	-0.000525	-5.22E-05	-0.002890
-0.000143	-0.000440	-4.58E-05	
207	-0.000525	-4.84E-05	-0.006085
-0.000215	-0.000324	-4.06E-05	
208	-0.000525	-4.88E-05	-0.009136
-0.000278	-0.000221	-3.62E-05	
209	-0.000525	-5.33E-05	-0.011587
-0.000332	-0.000131	-3.57E-05	
210	-0.000525	-5.51E-05	-0.012987
-0.000368	-0.000147	-3.61E-05	
211	-0.000524	-5.39E-05	-0.013069
-0.000377	-0.000320	-4.20E-05	
212	-0.000524	-5.23E-05	-0.011758
-0.000356	-0.000530	-5.35E-05	
213	-0.000524	-4.81E-05	-0.009181
-0.000307	-0.000729	-7.13E-05	
214	-0.000524	-4.12E-05	-0.005618
-0.000225	-0.000885	-8.97E-05	
215	-0.000524	-3.27E-05	-0.001366
-0.000128	-0.000924	-6.63E-05	
216	-0.000524	-3.62E-05	-0.000101
-0.000142	-0.000889	-7.94E-05	
217	-0.000520	-5.87E-05	-0.000166
-0.000100	-0.000246	-4.90E-05	
218	-0.000520	-5.19E-05	-0.002946
-0.000192	-0.000304	-4.14E-05	
219	-0.000520	-4.68E-05	-0.005704
-0.000322	-0.000271	-4.09E-05	
220	-0.000520	-4.57E-05	-0.007651
-0.000374	-0.000238	-4.12E-05	
221	-0.000520	-5.25E-05	-0.008500
-0.000386	-0.000196	-4.23E-05	
222	-0.000521	-5.61E-05	-0.008169
-0.000366	-0.000340	-4.58E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	-0.000521	-5.44E-05	-0.006768
-0.000314	-0.000487	-5.20E-05	
224	-0.000521	-4.64E-05	-0.004651
-0.000236	-0.000571	-5.78E-05	
225	-0.000522	-3.50E-05	-0.002258
-0.000127	-0.000573	-5.90E-05	
226	-0.000522	-2.79E-05	-9.71E-05
-3.29E-05	-0.000478	-4.90E-05	
227	-0.000523	-2.94E-05	-0.001635
-0.000105	-0.000374	-4.25E-05	
228	-0.000523	-3.97E-05	-0.004214
-0.000235	-0.000296	-4.61E-05	
229	-0.000523	-4.98E-05	-0.006758
-0.000327	-0.000253	-4.60E-05	
230	-0.000524	-5.62E-05	-0.008843
-0.000385	-0.000243	-4.64E-05	
231	-0.000524	-5.77E-05	-0.010009
-0.000404	-0.000215	-4.69E-05	
232	-0.000524	-5.39E-05	-0.010025
-0.000395	-0.000309	-5.08E-05	
233	-0.000524	-4.76E-05	-0.008888
-0.000367	-0.000472	-5.92E-05	
234	-0.000523	-4.03E-05	-0.006816
-0.000305	-0.000590	-6.60E-05	
235	-0.000523	-3.05E-05	-0.004268
-0.000213	-0.000630	-6.66E-05	
236	-0.000523	-2.57E-05	-0.001664
-8.91E-05	-0.000579	-5.61E-05	
237	-0.000523	-2.77E-05	-8.87E-05
-2.12E-05	-0.000478	-4.44E-05	
238	-0.000523	-3.34E-05	-0.001704
-9.46E-05	-0.000397	-4.03E-05	
239	-0.000522	-4.14E-05	-0.004392
-0.000323	-0.000314	-4.57E-05	
240	-0.000522	-5.11E-05	-0.007057
-0.000320	-0.000261	-3.53E-05	
241	-0.000522	-5.64E-05	-0.009267
-0.000383	-0.000250	-3.68E-05	
242	-0.000522	-5.63E-05	-0.010505
-0.000407	-0.000221	-3.84E-05	
243	-0.000523	-5.82E-05	-0.010514
-0.000408	-0.000317	-5.08E-05	
244	-0.000523	-5.72E-05	-0.009292
-0.000383	-0.000491	-5.99E-05	
245	-0.000523	-5.11E-05	-0.007090
-0.000321	-0.000613	-6.64E-05	
246	-0.000523	-4.08E-05	-0.004423
-0.000225	-0.000650	-6.89E-05	
247	-0.000523	-3.41E-05	-0.001721
-9.56E-05	-0.000596	-6.00E-05	
248	-0.000522	-2.76E-05	-8.94E-05
-2.03E-05	-0.000494	-5.02E-05	
249	-0.000522	-2.53E-05	-0.001738
-9.14E-05	-0.000310	-4.93E-05	
250	-0.000522	-3.35E-05	-0.004475
-0.000217	-0.000324	-4.71E-05	
251	-0.000522	-4.59E-05	-0.007187
-0.000312	-0.000284	-4.24E-05	
252	-0.000522	-5.49E-05	-0.009441
-0.000376	-0.000271	-3.96E-05	
253	-0.000522	-6.34E-05	-0.010715
-0.000405	-0.000237	-3.80E-05	
254	-0.000522	-6.92E-05	-0.010743
-0.000414	-0.000313	-4.12E-05	
255	-0.000522	-6.94E-05	-0.009519
-0.000394	-0.000490	-4.86E-05	
256	-0.000522	-6.77E-05	-0.007288
-0.000334	-0.000617	-5.94E-05	
257	-0.000522	-6.51E-05	-0.004566
-0.000237	-0.000660	-6.36E-05	
258	-0.000522	-5.77E-05	-0.001786
-0.000106	-0.000614	-5.46E-05	
259	-0.000522	-5.06E-05	-0.000108
-3.30E-05	-0.000522	-4.67E-05	
260	-0.000522	-4.39E-05	-0.002857
-0.000128	-0.000436	-4.34E-05	
261	-0.000523	-4.54E-05	-0.005981
-0.000244	-0.000322	-3.84E-05	
262	-0.000523	-4.82E-05	-0.008963
-0.000334	-0.000220	-3.52E-05	
263	-0.000523	-4.94E-05	-0.011359
-0.000399	-0.000135	-3.58E-05	
264	-0.000523	-4.72E-05	-0.012724
-0.000440	-0.000159	-3.72E-05	
265	-0.000523	-3.94E-05	-0.012799
-0.000453	-0.000309	-4.15E-05	
266	-0.000522	-2.74E-05	-0.011515
-0.000438	-0.000513	-5.16E-05	
267	-0.000522	-2.10E-05	-0.008990
-0.000389	-0.000709	-6.96E-05	
268	-0.000522	-2.39E-05	-0.005504
-0.000288	-0.000865	-8.71E-05	
269	-0.000530	-3.63E-05	-0.001346
-0.000118	-0.000911	-6.36E-05	
270	-0.000521	-3.23E-05	-0.000142
-0.000104	-0.000880	-7.67E-05	
271	-0.000603	-7.29E-06	.000000
-8.26E-05	-0.000242	-6.35E-06	
272	-0.000976	-3.87E-05	.000000
-4.08E-05	-0.000407	-5.33E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
-2.59E-05	-0.000440	-5.97E-06	
274	-0.000717	-3.65E-06	.000000
-2.10E-05	-0.000457	-6.49E-06	
275	-0.000566	-1.57E-05	.000000
-5.91E-05	-0.000476	-6.18E-06	
276	-0.000546	-5.37E-06	.000000
-9.32E-05	-0.000886	-7.39E-06	
277	-0.000631	-3.57E-05	.000000
-7.05E-05	-0.000235	-4.22E-06	
278	-0.000980	-3.88E-05	.000000
-4.08E-05	-0.000411	-2.37E-06	
279	-0.000900	-1.90E-05	.000000
-2.49E-05	-0.000442	-1.90E-06	
280	-0.000721	-3.67E-06	.000000
-1.94E-05	-0.000459	-2.40E-06	
281	-0.000568	-1.27E-05	.000000
-2.23E-05	-0.000481	-2.08E-06	
282	-0.000554	-2.67E-05	.000000
-3.78E-05	-0.000902	-4.81E-06	
283	-0.000592	-6.32E-05	.000000
-0.000153	-0.000215	-7.11E-06	
284	-0.000950	-9.26E-06	.000000
-0.000151	-0.000369	-5.56E-06	
285	-2.86E-06	-9.66E-05	.000000
-7.37E-05	-0.000427	-5.68E-06	
286	-0.000902	-0.00023	.000000
-3.50E-05	-0.000449	-5.98E-06	
287	-0.000533	-0.000181	.000000
-3.51E-05	-0.000469	-5.46E-06	
288	-0.000527	-0.000164	.000000
-5.50E-05	-0.000863	-6.87E-06	

COMB DB-G3-1 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000135	6.27E-06	1.25E-08
2.27E-05	0.000119	4.46E-07	
2	0.000135	7.53E-06	0.000330
6.31E-05	0.000117	3.81E-07	
3	0.000135	8.73E-06	0.000666
0.000108	0.000101	5.81E-07	
4	0.000135	9.26E-06	0.000939
0.000140	7.13E-05	7.32E-07	
5	0.000135	1.03E-05	0.001119
0.000155	3.20E-05	8.08E-07	
6	0.000135	1.30E-05	0.001176
0.000151	9.31E-07	2.25E-06	
7	0.000135	1.41E-05	0.001088
0.000129	2.92E-05	3.30E-06	
8	0.000135	1.17E-05	0.000851
9.40E-05	5.95E-05	3.73E-06	
9	0.000134	7.99E-06	0.000475
5.39E-05	8.56E-05	3.57E-06	
10	0.000134	7.94E-06	1.30E-08
1.86E-05	0.000102	3.05E-06	
11	0.000134	7.40E-06	0.000314
2.65E-05	0.000109	2.49E-06	
12	0.000134	1.06E-05	0.000702
6.89E-05	0.000112	1.35E-06	
13	0.000134	1.43E-05	0.000984
0.000112	0.000101	3.80E-07	
14	0.000133	1.46E-05	0.001142
0.000147	7.54E-05	4.96E-07	
15	0.000133	1.27E-05	0.001192
0.000168	3.69E-05	7.16E-07	
16	0.000133	1.50E-05	0.001307
0.000171	2.77E-05	1.91E-06	
17	0.000132	1.71E-05	0.001291
0.000154	4.24E-05	3.02E-06	
18	0.000132	1.71E-05	0.001122
0.000122	4.94E-05	3.68E-06	
19	0.000132	1.33E-05	0.000808
8.05E-05	7.7E-05	3.75E-06	
20	0.000132	5.14E-06	0.000366
3.82E-05	9.91E-05	3.32E-06	
21	0.000132	3.79E-06	1.22E-08
1.37E-05	0.000110	2.93E-06	
22	0.000132	3.54E-06	0.000356
3.22E-05	0.000115	2.44E-06	
23	0.000133	8.42E-06	0.000791
7.54E-05	0.000115	1.32E-06	
24	0.000134	1.20E-05	0.001107
0.000118	0.000102	3.42E-07	
25	0.000135	1.21E-05	0.001285
0.000154	7.32E-05	4.68E-07	
26	0.000136	1.02E-05	0.001309
0.000174	3.08E-05	7.61E-07	
27	0.000136	9.96E-06	0.001372
0.000175	3.34E-05	2.00E-06	
28	0.000137	1.17E-05	0.001349
0.000155	4.95E-05	3.14E-06	
29	0.000137	1.15E-05	0.001164
0.000119	5.66E-05	3.78E-06	
30	0.000138	8.02E-06	0.000834
7.63E-05	8.04E-05	3.79E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	0.000138	4.88E-06	0.000376
3.28E-05	0.000102	3.33E-06	
32	0.000139	4.21E-06	1.21E-08
1.37E-05	0.000122	2.98E-06	
33	0.000139	5.77E-06	0.000371
3.88E-05	0.000117	2.52E-06	
34	0.000140	1.42E-05	0.000826
8.21E-05	0.000115	1.31E-06	
35	0.000140	1.77E-05	0.001157
0.000124	0.000100	2.46E-07	
36	0.000141	1.70E-05	0.001346
0.000159	6.84E-05	2.99E-07	
37	0.000141	1.40E-05	0.001438
0.000177	2.51E-05	1.01E-06	
38	0.000141	1.02E-05	0.001576
0.000174	3.56E-05	2.34E-06	
39	0.000142	8.41E-06	0.001552
0.000152	5.25E-05	3.50E-06	
40	0.000142	7.44E-06	0.001343
0.000115	6.18E-05	4.13E-06	
41	0.000142	3.69E-06	0.000966
7.10E-05	9.34E-05	4.12E-06	
42	0.000142	8.84E-07	0.000437
2.77E-05	0.000119	3.54E-06	
43	0.000142	3.74E-06	1.55E-08
2.25E-05	0.000130	2.98E-06	
44	0.000142	1.45E-05	0.000563
6.46E-05	0.000135	2.01E-06	
45	0.000143	2.11E-05	0.001034
0.000114	0.000126	7.84E-07	
46	0.000143	2.26E-05	0.001370
0.000161	0.000101	1.02E-07	
47	0.000143	2.04E-05	0.001554
0.000196	6.08E-05	2.32E-07	
48	0.000143	1.65E-05	0.001583
0.000215	1.31E-05	1.21E-06	
49	0.000143	1.22E-05	0.001473
0.000214	3.78E-05	2.49E-06	
50	0.000143	7.97E-06	0.001246
0.000192	5.79E-05	3.75E-06	
51	0.000143	4.30E-06	0.000930
0.000151	7.25E-05	4.64E-06	
52	0.000143	1.52E-06	0.000550
9.51E-05	8.21E-05	4.82E-06	
53	0.000144	1.60E-06	0.000129
3.00E-05	8.64E-05	4.31E-06	
54	0.000144	2.16E-06	1.45E-08
1.56E-05	8.65E-05	4.18E-06	
55	0.000193	1.57E-05	1.09E-08
1.09E-05	0.000226	3.18E-07	
56	0.000193	1.58E-05	0.000390
7.73E-05	0.000221	2.47E-07	
57	0.000193	1.59E-05	0.000789
0.000177	0.000187	1.35E-07	
58	0.000193	1.61E-05	0.001121
0.000147	0.000130	2.35E-07	
59	0.000193	1.61E-05	0.001355
0.000278	6.14E-05	3.35E-07	
60	0.000193	1.58E-05	0.001456
0.000270	5.96E-06	2.88E-07	
61	0.000193	1.50E-05	0.001391
0.000227	2.58E-05	3.72E-07	
62	0.000193	1.37E-05	0.001135
0.000158	6.73E-05	6.38E-07	
63	0.000193	1.19E-05	0.000668
7.97E-05	0.000112	8.20E-07	
64	0.000193	9.82E-06	1.64E-08
1.33E-05	0.000153	3.64E-07	
65	0.000193	8.64E-06	0.000465
3.25E-05	0.000178	2.55E-07	
66	0.000193	6.90E-06	0.000976
0.000111	0.000192	2.60E-07	
67	0.000194	4.99E-06	0.001297
0.000191	0.000181	2.35E-07	
68	0.000194	3.40E-06	0.001442
0.000257	0.000140	2.81E-07	
69	0.000194	2.46E-06	0.001423
0.000295	7.89E-05	3.39E-07	
70	0.000194	2.28E-06	0.001559
0.000300	3.82E-05	3.03E-07	
71	0.000194	2.40E-06	0.001582
0.000269	5.32E-05	3.45E-07	
72	0.000194	2.82E-06	0.001425
0.000208	5.96E-05	3.66E-07	
73	0.000193	3.62E-06	0.001075
0.000130	8.96E-05	5.27E-07	
74	0.000193	4.35E-06	0.000513
4.97E-05	0.000133	6.72E-07	
75	0.000193	5.32E-06	1.72E-08
5.90E-06	0.000161	3.71E-07	
76	0.000193	5.59E-06	0.000503
4.03E-05	0.000183	3.51E-07	
77	0.000193	5.16E-06	0.001057
0.000121	0.000196	3.31E-07	
78	0.000193	5.23E-06	0.001411
0.000202	0.000181	3.13E-07	
79	0.000194	5.88E-06	0.001578
0.000268	0.000136	2.81E-07	
80	0.000194	7.09E-06	0.001563
0.000305	7.02E-05	2.95E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
81	0.000194	7.88E-06	0.001630
0.000306	4.44E-05	3.30E-07	
82	0.000194	8.10E-06	0.001647
0.000270	6.04E-05	4.02E-07	
83	0.000194	7.58E-06	0.001474
0.000204	6.66E-05	4.18E-07	
84	0.000194	6.23E-06	0.001105
0.000123	9.61E-05	6.03E-07	
85	0.000194	5.16E-06	0.000526
4.23E-05	0.000138	7.38E-07	
86	0.000194	4.74E-06	1.93E-08
4.59E-06	0.000165	5.56E-07	
87	0.000194	3.91E-06	0.000522
4.94E-05	0.000184	4.24E-07	
88	0.000194	2.88E-06	0.001098
0.000131	0.000193	3.77E-07	
89	0.000194	2.49E-06	0.001468
0.000211	0.000175	4.11E-07	
90	0.000194	4.15E-06	0.001645
0.000275	0.000127	5.52E-07	
91	0.000194	5.38E-06	0.001650
0.000308	5.99E-05	6.69E-07	
92	0.000194	5.78E-06	0.001841
0.000304	4.74E-05	6.51E-07	
93	0.000194	6.18E-06	0.001860
0.000263	6.39E-05	5.68E-07	
94	0.000194	8.26E-06	0.001664
0.000195	7.03E-05	5

120	0.000268	4.17E-05	0.001270
0.000132	0.000307	5.55E-06	
121	0.000269	6.58E-05	0.001615
0.000212	0.000292	5.23E-06	
122	0.000270	8.51E-05	0.001741
0.000279	0.000234	4.21E-06	
123	0.000271	9.55E-05	0.001681
0.000318	0.000147	2.76E-06	
124	0.000271	9.52E-05	0.001810
0.000325	5.95E-05	1.26E-06	
125	0.000272	8.41E-05	0.001874
0.000297	6.44E-05	9.84E-07	
126	0.000272	6.42E-05	0.001736
0.000238	7.00E-05	9.37E-07	
127	0.000273	3.94E-05	0.001362
0.000162	0.000103	1.67E-06	
128	0.000273	1.43E-05	0.000687
8.16E-05	0.000172	3.15E-06	
129	0.000273	1.46E-05	2.72E-08
3.74E-05	0.000228	4.18E-06	
130	0.000272	3.03E-05	0.000676
6.69E-05	0.000279	5.00E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
131	0.000270	5.61E-05	0.001345
0.000146	0.000310	5.54E-06	
132	0.000269	8.16E-05	0.001724
0.000227	0.000293	5.23E-06	
133	0.000268	0.000102	0.001873
0.000293	0.000232	4.20E-06	
134	0.000267	0.000113	0.001816
0.000328	0.000140	2.71E-06	
135	0.000267	0.000113	0.001887
0.000329	5.54E-05	1.17E-06	
136	0.000266	0.000101	0.001947
0.000294	7.13E-05	1.12E-06	
137	0.000265	7.99E-05	0.001792
0.000229	7.67E-05	1.06E-06	
138	0.000264	5.36E-05	0.001398
0.000149	0.000109	1.85E-06	
139	0.000263	2.69E-05	0.000703
6.88E-05	0.000176	3.38E-06	
140	0.000263	1.05E-05	2.95E-08
3.67E-05	0.000232	4.46E-06	
141	0.000262	1.91E-05	0.000699
8.14E-05	0.000279	5.34E-06	
142	0.000261	4.64E-05	0.001392
0.000163	0.000306	5.96E-06	
143	0.000261	7.42E-05	0.001787
0.000241	0.000286	5.71E-06	
144	0.000260	9.72E-05	0.001945
0.000303	0.000222	4.67E-06	
145	0.000260	0.000111	0.001891
0.000333	0.000258	3.10E-06	
146	0.000259	0.000114	0.002102
0.000326	5.82E-05	1.44E-06	
147	0.000259	0.000104	0.002164
0.000286	7.48E-05	7.11E-07	
148	0.000258	8.52E-05	0.001988
0.000217	8.05E-05	6.77E-07	
149	0.000258	6.02E-05	0.001546
0.000135	0.000122	1.85E-06	
150	0.000258	3.43E-05	0.000774
5.66E-05	0.000194	3.52E-06	
151	0.000258	1.82E-05	2.57E-08
5.39E-05	0.000252	4.66E-06	
152	0.000257	2.05E-05	0.000987
0.000126	0.000315	5.91E-06	
153	0.000257	4.97E-05	0.001639
0.000212	0.000327	6.50E-06	
154	0.000257	7.95E-05	0.002011
0.000291	0.000289	6.28E-06	
155	0.000257	0.000105	0.002156
0.000348	0.000214	5.28E-06	
156	0.000122	0.000122	0.002111
0.000375	0.000118	3.70E-06	
157	0.000256	0.000128	0.001912
0.000370	5.70E-05	1.81E-06	
158	0.000256	0.000122	0.001590
0.000332	7.81E-05	5.16E-07	
159	0.000256	0.000103	0.001175
0.000261	5.80E-05	5.80E-07	
160	0.000256	7.33E-05	0.000692
0.000161	0.000104	6.29E-07	
161	0.000256	3.75E-05	0.000163
4.43E-05	0.000110	6.68E-07	
162	0.000255	2.62E-05	1.47E-08
2.20E-05	0.000110	6.72E-07	
163	0.000164	1.06E-05	7.67E-06
1.64E-05	0.000154	2.72E-05	
164	0.000164	1.16E-05	0.000362
6.26E-05	0.000156	2.04E-05	
165	0.000164	1.22E-05	0.000724
0.000156	0.000135	2.08E-05	
166	0.000163	1.26E-05	0.001023
0.000216	9.64E-05	2.02E-05	
167	0.000164	1.26E-05	0.001225
0.000240	4.45E-05	1.95E-05	
168	0.000164	1.22E-05	0.001298
0.000230	1.64E-06	1.86E-05	
169	0.000164	1.16E-05	0.001215
0.000190	2.77E-05	1.76E-05	
170	0.000164	1.07E-05	0.000964
0.000130	6.24E-05	1.64E-05	
171	0.000163	9.79E-06	0.000546
6.26E-05	9.50E-05	1.53E-05	
172	0.000163	8.75E-06	2.63E-06
5.40E-06	0.000122	1.31E-05	
173	0.000163	7.96E-06	0.000366
2.43E-05	0.000136	1.25E-05	
174	0.000163	6.93E-06	0.000810
9.09E-05	0.000144	1.29E-05	
175	0.000163	7.83E-06	0.001115
0.000161	0.000134	1.27E-05	
176	0.000163	7.35E-06	0.001272
0.000220	0.000102	1.33E-05	
177	0.000163	7.78E-06	0.001285
0.000253	5.34E-05	1.49E-05	
178	0.000163	9.13E-06	0.001419
0.000256	3.22E-05	1.74E-05	
179	0.000163	1.05E-05	0.001416
0.000228	4.72E-05	2.08E-05	
180	0.000163	1.10E-05	0.001247
0.000174	5.42E-05	2.45E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	0.000163	9.86E-06	0.000913
0.000105	8.21E-05	2.85E-05	
182	0.000163	5.81E-06	0.000417
3.77E-05	0.000113	3.00E-05	
183	0.000163	2.55E-06	3.19E-06
2.97E-06	0.000131	2.93E-05	
184	0.000163	3.02E-06	0.000406
3.05E-05	0.000143	3.30E-05	
185	0.000164	4.37E-06	0.000896
9.83E-05	0.000147	3.58E-05	
186	0.000163	5.39E-06	0.001233
0.000170	0.000134	3.34E-05	
187	0.000164	5.43E-06	0.001412
0.000229	9.72E-05	2.80E-05	
188	0.000165	6.48E-06	0.001422
0.000260	4.46E-05	2.00E-05	
189	0.000165	7.12E-06	0.001487
0.000261	3.83E-05	1.27E-05	
190	0.000165	7.27E-06	0.001478
0.000230	5.44E-05	8.99E-06	
191	0.000165	6.85E-06	0.001292
0.000172	6.14E-05	7.64E-06	
192	0.000165	5.87E-06	0.000940
0.000100	8.86E-05	7.67E-06	
193	0.000166	4.30E-06	0.000427
3.21E-05	0.000118	1.05E-05	
194	0.000166	2.87E-06	3.29E-06
2.48E-06	0.000134	1.13E-05	
195	0.000167	5.70E-06	0.000424
3.78E-05	0.000145	1.39E-05	
196	0.000167	9.41E-06	0.000934
0.000106	0.000146	1.57E-05	
197	0.000167	1.00E-05	0.001287
0.000178	0.000129	1.41E-05	
198	0.000167	8.64E-06	0.001475
0.000235	8.94E-05	1.61E-05	
199	0.000167	6.40E-06	0.001535
0.000263	3.61E-05	1.83E-05	
200	0.000167	4.09E-06	0.001694
0.000260	4.10E-05	2.01E-05	
201	0.000168	2.89E-06	0.001685
0.000226	5.77E-05	2.13E-05	
202	0.000168	2.91E-06	0.001476
0.000165	6.56E-05	2.18E-05	
203	0.000168	2.17E-06	0.001077
9.27E-05	0.000104	2.17E-05	
204	0.000168	1.83E-06	0.000491
2.48E-05	0.000137	1.96E-05	
205	0.000168	6.30E-06	3.05E-06
5.44E-06	0.000155	1.92E-05	
206	0.000168	1.28E-05	0.000635
6.87E-05	0.000168	1.99E-05	
207	0.000168	1.51E-05	0.001152
0.000145	0.000160	1.89E-05	
208	0.000168	1.44E-05	0.001504
0.000218	0.000131	1.79E-05	
209	0.000169	1.19E-05	0.001686
0.000275	8.11E-05	1.70E-05	
210	0.000169	8.81E-06	0.001703
0.000306	2.19E-05	1.62E-05	
211	0.000169	5.85E-06	0.001575
0.000308	4.26E-05	1.56E-05	
212	0.000169	4.37E-06	0.001328
0.000277	6.28E-05	1.52E-05	
213	0.000169	4.65E-06	0.000989
0.000213	7.73E-05	1.48E-05	
214	0.000169	4.77E-06	0.000587
0.000117	8.69E-05	1.48E-05	
215	0.000169	4.77E-06	0.000142
1.07E-05	9.10E-05	9.95E-06	
216	0.000169	4.26E-06	7.52E-06
1.57E-05	9.08E-05	1.22E-05	
217	0.000229	2.01E-05	8.18E-05
1.90E-05	0.000301	3.80E-05	
218	0.000229	2.03E-05	0.000419
0.000108	0.000302	2.90E-05	
219	0.000229	3.20E-05	0.000854
0.000259	0.000254	2.65E-05	
220	0.000229	4.12E-05	0.001220
0.000346	0.000179	2.59E-05	
221	0.000229	4.48E-05	0.001486
0.000379	9.14E-05	2.52E-05	
222	0.000229	4.22E-05	0.001616
0.000365	1.90E-05	2.44E-05	
223	0.000229	3.44E-05	0.001571
0.000307	2.34E-05	2.35E-05	
224	0.000229	2.33E-05	0.001317
0.000214	6.93E-05	2.26E-05	
225	0.000230	1.55E-05	0.000813
9.80E-05	0.000123	2.17E-05	
226	0.000230	1.28E-05	3.45E-05
6.95E-06	0.000184	1.90E-05	
227	0.000230	1.10E-05	0.000588
3.81E-05	0.000223	1.84E-05	
228	0.000231	1.59E-05	0.001155
0.000153	0.000250	1.94E-05	
229	0.000231	2.74E-05	0.001484
0.000260	0.000229	1.92E-05	
230	0.000231	3.68E-05	0.001613
0.000345	0.000189	1.98E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	0.000232	4.20E-05	0.001568
0.000390	0.000115	2.11E-05	
232	0.000232	4.18E-05	0.001700
0.000395	4.51E-05	2.33E-05	
233	0.000232	3.62E-05	0.001749
0.000358	5.97E-05	2.65E-05	
234	0.000232	2.63E-05	0.001607
0.000279	6.56E-05	3.03E-05	
235	0.000232	1.41E-05	0.001249
0.000172	9.47E-05	3.48E-05	
236	0.000232	2.91E-06	0.000633
5.53E-05	0.000151	3.74E-05	
237	0.000232	7.72E-06	3.31E-05
3.94E-06	0.000194	3.84E-05	
238	0.000232	1.57E-05	0.000622
4.59E-05	0.000230	4.42E-05	
239	0.000231	2.82E-05	0.001232
0.000182	0.000252	4.82E-05	
240	0.000231	4.08E-05	0.001594
0.000272	0.000238	4.47E-05	
241	0.000230	5.10E-05	0.001747
0.000357	0.000184	3.67E-05	
242	0.000230	5.65E-05	0.001705
0.000400	0.000105	2.49E-05	
243	0.000230	5.69E-05	0.001774
0.000400	5.11E-05	1.73E-05	
244	0.000229	5.04E-05	0.001819
0.000359	6.67E-05	1.48E-05	
245	0.000229	3.98E-05	0.001661
0.000274	7.25E-05	1.37E-05	
246	0.000229	2.67E-05	0.001284
0.000165	0.000102	1.38E-05	
247	0.000228	1.37E-05	0.000648
4.78E-05	0.000158	1.35E-05	
248	0.000228	5.42E-06	3.36E-05
3.62E-06	0.000199	1.57E-05	
249	0.000228	5.29E-06	0.000642
5.53E-05	0.000227	2.01E-05	
250	0.000227	1.91E-05	0.001276
0.000173	0.000249	2.34E-05	
251	0.000227	3.39E-05	0.001654
0.000283	0.000230	2.19E-05	
252	0.000227	4.65E-05	0.001816
0.000366	0.000172	2.17E-05	
253	0.000227	5.46E-05	0.001777
0.000403	9.19E-05	2.32E-05	
254	0.000226	5.70E-05	0.001988
0.000399	5.41E-05	2.44E-05	
255	0.000226	5.34E-05	0.002035
0.000352	7.02E-05	2.53E-05	
256	0.000226	4.47E-05	0.001856
0.000265	7.61E-05	2.55E-05	
257	0.000226	3.29E-05	0.001432
0.000155	0.000118	2.55E-05	
258	0.000226	2.05E-05	0.000721
3.91E-05	0.000179	2.31E-05	
259	0.000226	1.24E-05	3.61E-05
6.96E-06	0.000223	2.26E-05	
260	0.000226	7.07E-06	0.000909
0.000101	0.000265	2.79E-05	
261	0.000226	1.69E-05	0.001516
0.000225	0.000268	2.89E-05	
262	0.000226	3.33E-05	0.001877
0.000330	0.000232	2.61E-05	
263	0.000226	4.82E-05	0.002027
0.000407	0.000164	2.11E-05	
264	0.000226	5.88E-05	0.001995
0.000447	7.85E-05	2.04E-05	
265	0.000225	6.34E-05	0.001812
0.000447	5.40E-05	1.97E-05	
266	0.000225	6.11E-05	0.001510
0.000408	7.44E-05	1.94E-05	
267	0.000225	5.21E-05	0.001116
0.000325	8.92E-05	1.91E-05	
268	0.000225	3.82E-05	0.000655
0.000191	9.94E-05	1.92E-05	
269	0.000225	2.27E-05	0.000150
1.24E-05	0.000104	1.29E-05	
270	0.000225	1.73E-05	7.35E-05
1.76E-05	0.000104	1.59E-05	
271	0.000107	1.38E-06	.000000
2.64E-05	0.000118	4.46E-07	
272	0.000186	1.38E-05	.000000
1.92E-05	0.000101	2.30E-06	
273	.000000	.000000	.000000
1.40E-05	0.000109	2.93E-06	
274	0.000266	6.75E-07	.000000
1.45E-05	0.000112	2.98E-06	
275	9.84E-05	4.53E-06	.000000
3.15E-05	0.000128	2.98E-06	
276	0.000133	2.30E-06	.000000
1.64E-05	8.68E-05	4.18E-06	
277	0.000163	1.56E-05	.000000
2.19E-05	0.000225	3.18E-07	
278	0.000251	1.96E-05	.000000
1.39E-05	0.000152	3.64E-07	
279	.000000	.000000	.000000
6.16E-06	0.000161	3.71E-07	
280	0.000370	9.27E-07	.000000
5.75E-06	0.000165	5.56E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.000157	3.53E-06	.000000
7.75E-06	0.000186	6.46E-07	
282	0.000355	1.71E-05	.000000
4.10E-06	9.84E-05	1.60E-06	
283	0.000247	8.08E-05	.000000
0.000145	0.000374	6.50E-06	
284	0.000335	4.00E-05	.000000
8.76E-05	0.000202	4.27E-06	
285	1.31E-06	4.43E-05	.000000
3.81E-05	0.000226	4.18E-06	
286	0.000468	0.000144	.000000
2.46E-05	0.000237	4.46E-06	
287	0.000233	7.59E-05	.000000
1.54E-05	0.000257	4.66E-06	
288	0.000549	0.000140	.000000
4.97E-05	0.000115	6.75E-07	

COMB DB-G3-1 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000133	-2.64E-05	-3.10E-09
-4.20E-06	-7.48E-05	-3.80E-06	
2	-0.000133	-4.72E-05	-0.000506
-6.63E-06	-7.24E-05	-3.83E-06	
3	-0.000133	-6.07E-05	-0.001000
-1.57E-05	-6.38E-05	-3.50E-06	
4	-0.000133	-7.45E-05	-0.001362
-2.52E-05	-4.92E-05	-2.57E-06	
5	-0.000133	-8.00E-05	-0.001539
-3.40E-05	-2.70E-05	-1.72E-06	
6	-0.000133	-7.63E-05	-0.001508
-4.06E-05	-1.28E-05	-2.16E-07	
7	-0.000133	-6.43E-05	-0.001285
-4.26E-05	-4.93E-05	-1.06E-07	
8	-0.000133	-4.72E-05	-0.000919
-3.74E-05	-7.60E-05	-1.02E-06	
9	-0.000131	-2.91E-05	-0.000469
-2.26E-05	-8.97E-05	-2.21E-06	
10	-0.000131	-1.71E-05	-4.77E-09
-1.54E-06	-9.15E-05	-2.93E-06	
11	-0.000131	-2.63E-05	-0.000365
-4.96E-06	-8.64E-05	-3.28E-06	
12	-0.000130	-4.32E-05	-0.000901
-2.40E-05	-7.95E-05	-3.72E-06	
13	-0.000128	-6.15E-05	-0.001402
-3.57E-05	-5.72E-05	-3.67E-06	
14	-0.000127	-7.69E-05	-0.001802
-4.01E-05	-5.07E-05	-3.03E-06	
15	-0.000126	-8.57E-05	-0.002025
-3.89E-05	-3.55E-05	-1.93E-06	
16	-0.000125	-8.58E-05	-0.002031
-3.79E-05	-1.90E-05	-7.37E-07	
17	-0.000125	-7.73E-05	-0.001819
-4.20E-05	-5.78E-05	-4.92E-07	
18	-0.000126	-6.21E-05	-0.001424
-4.05E-05	-8.79E-05	-3.60E-07	
19	-0.000130	-4.37E-05	-0.000922
-3.12E-05	0.000104	-1.32E-06	
20	-0.000126	-2.63E-05	-0.000377
-1.28E-05	-0.000108	-2.44E-06	
21	-0.000127	-1.64E-05	-5.55E-09
-3.16E-06	-0.000105	-2.94E-06	
22	-0.000127	-1.91E-05	-0.000392
-8.29E-06	-0.000232	-3.79E-06	
23	-0.000128	-3.66E-05	-0.000965
-2.72E-05	-7.68E-05	-3.79E-06	
24	-0.000129	-5.52E-05	-0.001502
-3.79E-05	-5.94E-05	-3.74E-06	
25	-0.000129	-7.06E-05	-0.001934
-4.11E-05	-5.23E-05	-3.08E-06	
26	-0.000130	-7.93E-05	-0.002173
-3.86E-05	-3.57E-05	-1.95E-06	
27	-0.000131	-7.91E-05	-0.002175
-3.95E-05	-2.90E-05	-7.21E-07	
28	-0.000131	-7.02E-05	-0.001939
-4.22E-05	-7.17E-05	-5.04E-07	
29	-0.000132	-5.46E-05	-0.001509
-3.90E-05	-0.000101	-7.89E-06	
30	-0.000132	-3.59E-05	-0.000971
-2.82E-05	-0.000115	-1.29E-06	
31	-0.000133	-1.84E-05	-0.000395
-8.73E-06	-0.000116	-2.38E-06	
32	-0.000133	-1.71E-05	-4.25E-09
-3.26E-06	-0.000111	-2.72E-06	
33	-0.000133	-2.67E-05	-0.000402
-1.29E-05	-0.000101	-3.29E-06	
34	-0.000133	-4.37E-05	-0.000992
-3.18E-05	-7.90E-05	-3.63E-06	
35	-0.000134	-6.12E-05	-0.001547
-4.15E-05	-6.72E-05	-3.45E-06	
36	-0.000134	-7.53E-05	-0.001995
-4.33E-05	-5.87E-05	-2.74E-06	
37	-0.000135	-8.15E-05	-0.002246
-3.92E-05	-3.95E-05	-1.63E-06	
38	-0.000135	-7.91E-05	-0.002255
-4.13E-05	-3.65E-05	-8.26E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000135	-6.80E-05	-0.002019
-4.26E-05	-8.04E-05	-7.11E-07	
40	-0.000136	-5.05E-05	-0.001579
-3.78E-05	-0.000110	-6.55E-07	
41	-0.000136	-3.04E-05	-0.001024
-2.52E-05	-0.000123	-1.69E-06	
42	-0.000136	-2.22E-05	-0.000420
-4.89E-06	-0.000124	-2.82E-06	
43	-0.000136	-3.16E-05	-4.73E-09
-2.10E-06	-0.000119	-3.09E-06	
44	-0.000137	-4.55E-05	-0.000678
-2.36E-05	-0.000104	-3.32E-06	
45	-0.000137	-6.23E-05	-0.001369
-4.00E-05	-7.92E-05	-3.60E-06	
46	-0.000137	-7.96E-05	-0.001998
-4.67E-05	-4.89E-05	-3.53E-06	
47	-0.000137	-9.34E-05	-0.002483
-4.61E-05	-1.74E-05	-2.95E-06	
48	-0.000137	-0.000100	-0.002743
-4.08E-05	-6.44E-06	-1.92E-06	
49	-0.000137	-9.90E-05	-0.002732
-3.31E-05	-5.51E-05	-9.61E-07	
50	-0.000137	-8.86E-05	-0.002439
-2.44E-05	-0.000108	-8.81E-07	
51	-0.000137	-7.04E-05	-0.001890
-1.55E-05	-0.000150	-7.50E-07	
52	-0.000137	-4.75E-05	-0.001144
-7.03E-06	-0.000177	-6.07E-07	
53	-0.000138	-2.51E-05	-0.000272
-3.21E-06	-0.000186	-4.66E-07	
54	-0.000138	-1.92E-05	-2.55E-09
-3.25E-06	-0.000185	-4.47E-07	
55	-0.000189	-1.86E-05	-2.57E-08
-1.87E-05	-8.82E-05	-1.27E-06	
56	-0.000188	-1.81E-05	-0.000988
-3.22E-06	-8.58E-05	-1.02E-06	
57	-0.000188	-1.81E-05	-0.001932
-1.65E-05	-7.68E-05	-5.28E-07	
58	-0.000188	-1.83E-05	-0.002597
-3.06E-05	-6.17E-05	-3.31E-07	
59	-0.000188	-1.84E-05	-0.002892
-4.46E-05	-3.95E-05	-3.46E-07	
60	-0.000188	-1.81E-05	-0.002785
-5.72E-05	-4.82E-05	-3.45E-07	
61	-0.000188	-1.70E-05	-0.002316
-6.58E-05	-0.000108	-2.26E-07	
62	-0.000189	-1.49E-05	-0.001601
-6.55E-05	-0.000148	-3.56E-07	
63	-0.000189	-1.16E-05	-0.000781
-4.88E-05	-0.000160	-4.81E-07	
64	-0.000189	-8.73E-06	-4.22E-08
-1.09E-05	-0.000145	-3.89E-07	
65	-0.000189	-8.20E-06	-0.000570
-2.20E-05	-0.000124	-5.00E-07	
66	-0.000189	-8.27E-06	-0.001467
-5.00E-05	-8.74E-05	-4.05E-07	
67	-0.000189	-8.92E-06	-0.002346
-6.04E-05	-6.74E-05	-4.41E-07	
68	-0.000189	-9.55E-06	-0.003061
-5.97E-05	-5.17E-05	-4.18E-07	
69	-0.000189	-9.90E-06	-0.003459
-5.29E-05	-4.68E-05	-3.40E-07	
70	-0.000189	-1.01E-05	-0.003466
-5.09E-05	-5.15E-05	-2.73E-07	
71	-0.000189	-1.02E-05	-0.003078
-6.10E-05	-0.000113	-2.38E-07	
72	-0.000189	-9.66E-06	-0.002368
-6.55E-05	-0.000160	-1.41E-07	
73	-0.000189	-8.45E-06	-0.001488
-5.91E-05	-0.000181	-2.93E-07	
74	-0.000189	-7.17E-06	-0.000581
-3.48E-05	-0.000175	-4.20E-07	
75	-0.000189	-7.08E-06	-4.13E-08
-4.44E-06	-0.000157	-3.99E-07	
76	-0.000189	-8.36E-06	-0.000597
-2.73E-05	-0.000133	-6.33E-07	
77	-0.000189	-1.08E-05	-0.001536
-5.38E-05	-9.25E-05	-5.01E-07	
78	-0.000189	-1.22E-05	-0.002459
-6.26E-05	-6.96E-05	-4.82E-07	
79	-0.000189	-1.29E-05	-0.003218
-6.05E-05	-6.34E-05	-4.48E-07	
80	-0.000189	-1.18E-05	-0.003642
-5.21E-05	-4.69E-05	-3.57E-07	
81	-0.000189	-1.32E-05	-0.003646
-5.33E-05	-6.75E-05	-3.23E-07	
82	-0.000189	-1.38E-05	-0.003227
-6.21E-05	-0.000134	-2.77E-07	
83	-0.000189	-1.33E-05	-0.002471
-6.46E-05	-0.000179	-1.99E-07	
84	-0.000189	-1.14E-05	-0.001547
-5.60E-05	-0.000195	-3.97E-07	
85	-0.000189	-8.30E-06	-0.000603
-2.90E-05	-0.000184	-5.91E-07	
86	-0.000190	-6.41E-06	-4.20E-08
-3.29E-06	-0.000163	-6.25E-07	
87	-0.000190	-5.75E-06	-0.000610
-3.42E-05	-0.000136	-8.22E-07	
88	-0.000190	-5.71E-06	-0.001567
-5.95E-05	-9.35E-05	-7.90E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	-0.000190	-8.38E-06	-0.002508
-6.66E-05	-7.76E-05	-8.49E-07	
90	-0.000190	-1.23E-05	-0.003284
-6.26E-05	-6.99E-05	-8.28E-07	
91	-0.000190	-1.60E-05	-0.003720
-5.23E-05	-5.06E-05	-7.28E-07	
92	-0.000190	-1.92E-05	-0.003731
-5.59E-05	-7.98E-05	-5.25E-07	
93	-

-4.11E-05	-5.71E-05	-1.11E-06	
124	-0.000270	-1.81E-05	-0.005480
-3.82E-05	-0.000116	-2.59E-06	
125	-0.000270	-1.55E-05	-0.004850
-4.28E-05	-0.000204	-4.03E-06	
126	-0.000270	-1.56E-05	-0.003696
-4.22E-05	-0.000268	-5.07E-06	
127	-0.000269	-1.08E-05	-0.002282
-3.22E-05	-0.000292	-5.41E-06	
128	-0.000269	-1.53E-06	-0.000861
-8.17E-06	-0.000269	-4.92E-06	
129	-0.000269	-3.69E-06	-3.34E-07
-4.62E-06	-0.000223	-4.12E-06	
130	-0.000268	-1.51E-05	-0.000877
-5.18E-06	-0.000170	-3.11E-06	
131	-0.000267	-2.63E-05	-0.002334
-2.75E-05	-0.000104	-1.65E-06	
132	-0.000266	-3.10E-05	-0.003802
-4.01E-05	-7.99E-05	-1.04E-06	
133	-0.000265	-3.09E-05	-0.005022
-4.31E-05	-7.45E-05	-1.09E-06	
134	-0.000264	-2.77E-05	-0.005699
-4.02E-05	-5.80E-05	-1.29E-06	
135	-0.000263	-2.86E-05	-0.005704
-4.09E-05	-0.000137	-2.84E-06	
136	-0.000262	-3.13E-05	-0.005036
-4.40E-05	-0.000229	-4.33E-06	
137	-0.000262	-3.07E-05	-0.003819
-4.12E-05	-0.000292	-5.37E-06	
138	-0.000261	-2.52E-05	-0.002351
-2.87E-05	-0.000310	-5.69E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	-0.000260	-1.30E-05	-0.000887
-5.32E-06	-0.000281	-5.19E-06	
140	-0.000260	-1.69E-06	-3.34E-07
-4.71E-06	-0.000232	-4.41E-06	
141	-0.000259	-4.64E-06	-0.000893
-8.37E-06	-0.000175	-3.43E-06	
142	-0.000259	-1.73E-05	-0.002369
-3.28E-05	-0.000107	-2.08E-06	
143	-0.000258	-2.40E-05	-0.003855
-4.33E-05	-8.81E-05	-1.43E-06	
144	-0.000258	-2.60E-05	-0.005092
-4.43E-05	-8.15E-05	-1.49E-06	
145	-0.000257	-2.87E-05	-0.005783
-3.97E-05	-6.24E-05	-1.41E-06	
146	-0.000256	-3.50E-05	-0.005794
-4.29E-05	-0.000150	-2.39E-06	
147	-0.000256	-3.93E-05	-0.005125
-4.41E-05	-0.000244	-3.90E-06	
148	-0.000255	-3.97E-05	-0.003897
-3.88E-05	-0.000306	-5.02E-06	
149	-0.000255	-3.45E-05	-0.002407
-2.36E-05	-0.000322	-5.45E-06	
150	-0.000255	-2.21E-05	-0.000913
-3.11E-06	-0.000291	-5.03E-06	
151	-0.000254	-1.20E-05	-3.35E-07
-2.43E-06	-0.000241	-4.30E-06	
152	-0.000254	-1.13E-05	-0.001448
-2.13E-05	-0.000163	-3.00E-06	
153	-0.000254	-1.23E-05	-0.003107
-4.10E-05	-9.95E-05	-1.72E-06	
154	-0.000254	-1.80E-05	-0.004715
-4.70E-05	-4.77E-05	-7.47E-07	
155	-0.000253	-1.98E-05	-0.006010
-4.53E-05	-6.38E-06	-1.67E-07	
156	-0.000253	-1.94E-05	-0.006765
-3.96E-05	-6.47E-05	-6.87E-07	
157	-0.000253	-1.78E-05	-0.006839
-3.22E-05	-0.000160	-1.97E-06	
158	-0.000252	-1.55E-05	-0.006191
-2.41E-05	-0.000268	-3.62E-06	
159	-0.000252	-1.49E-05	-0.004868
-1.58E-05	-0.000367	-5.38E-06	
160	-0.000252	-1.56E-05	-0.002999
-7.48E-06	-0.000449	-6.91E-06	
161	-0.000252	-1.62E-05	-0.000725
-5.54E-06	-0.000496	-7.72E-06	
162	-0.000252	-1.63E-05	-2.81E-07
-5.41E-06	-0.000497	-7.77E-06	
163	-0.000161	-1.22E-05	-2.93E-05
-5.85E-05	-7.96E-05	-2.87E-05	
164	-0.000161	-2.42E-05	-0.000726
-2.86E-06	-7.82E-05	-2.30E-05	
165	-0.000161	-3.82E-05	-0.001390
-1.64E-05	-6.96E-05	-2.31E-05	
166	-0.000161	-4.76E-05	-0.001864
-3.03E-05	-5.49E-05	-2.19E-05	
167	-0.000161	-5.09E-05	-0.002084
-4.39E-05	-3.33E-05	-2.02E-05	
168	-0.000161	-4.84E-05	-0.002022
-5.67E-05	-2.26E-05	-1.81E-05	
169	-0.000161	-4.07E-05	-0.001705
-6.61E-05	-1.59E-05	-1.59E-05	
170	-0.000161	-2.95E-05	-0.001202
-6.81E-05	-0.000103	-1.37E-05	
171	-0.000160	-1.74E-05	-0.000607
-5.57E-05	-0.000118	-1.27E-05	
172	-0.000160	-1.18E-05	-1.15E-05
-2.02E-05	-0.000115	-1.03E-05	
173	-0.000159	-1.68E-05	-0.000461
-3.03E-05	-0.000104	-8.78E-06	
174	-0.000159	-2.81E-05	-0.001141
-5.39E-05	-8.01E-05	-8.33E-06	
175	-0.000158	-4.04E-05	-0.001792
-6.07E-05	-6.20E-05	-8.30E-06	
176	-0.000157	-5.03E-05	-0.002315
-5.82E-05	-5.01E-05	-9.61E-06	
177	-0.000157	-5.58E-05	-0.002606
-5.05E-05	-4.07E-05	-1.31E-05	
178	-0.000157	-5.59E-05	-0.002612
-4.92E-05	-2.90E-05	-1.98E-05	
179	-0.000157	-5.08E-05	-0.002332
-6.00E-05	-7.75E-05	-2.72E-05	
180	-0.000157	-4.11E-05	-0.001815
-6.58E-05	-0.000116	-3.25E-05	
181	-0.000158	-2.89E-05	-0.001163
-6.23E-05	-0.000135	-3.51E-05	
182	-0.000158	-1.69E-05	-0.000473
-4.17E-05	-0.000136	-3.25E-05	
183	-0.000158	-1.08E-05	-1.13E-05
-1.31E-05	-0.000127	-2.89E-05	
184	-0.000158	-7.84E-06	-0.000488
-3.48E-05	-0.000113	-2.96E-05	
185	-0.000158	-1.99E-05	-0.001208
-5.72E-05	-8.50E-05	-2.83E-05	
186	-0.000159	-3.21E-05	-0.001899
-6.29E-05	-6.43E-05	-2.44E-05	
187	-0.000159	-4.19E-05	-0.002458
-5.91E-05	-5.72E-05	-2.06E-05	
188	-0.000159	-4.72E-05	-0.002769
-5.00E-05	-4.06E-05	-1.70E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	-0.000160	-4.71E-05	-0.002772
-5.11E-05	-4.24E-05	-1.14E-05	
190	-0.000160	-4.19E-05	-0.002465
-6.07E-05	-9.52E-05	-1.27E-05	
191	-0.000160	-3.21E-05	-0.001907
-6.48E-05	-0.000133	-1.21E-05	
192	-0.000160	-1.99E-05	-0.001216
-5.93E-05	-0.000147	-1.22E-05	
193	-0.000161	-7.92E-06	-0.000492
-3.66E-05	-0.000144	-1.18E-05	
194	-0.000161	-1.07E-05	-1.20E-05
-1.20E-05	-0.000132	-1.14E-05	
195	-0.000161	-1.64E-05	-0.000500
-4.15E-05	-0.000115	-1.29E-05	
196	-0.000161	-2.74E-05	-0.001238
-6.29E-05	-8.58E-05	-1.49E-05	
197	-0.000161	-3.84E-05	-0.001946
-6.71E-05	-7.21E-05	-1.59E-05	
198	-0.000162	-4.63E-05	-0.002522
-6.15E-05	-6.36E-05	-1.70E-05	
199	-0.000162	-4.12E-05	-0.002845
-5.06E-05	-4.42E-05	-1.79E-05	
200	-0.000162	-4.69E-05	-0.002854
-5.35E-05	-5.32E-05	-1.86E-05	
201	-0.000162	-3.93E-05	-0.002547
-6.17E-05	-0.000107	-1.91E-05	
202	-0.000163	-2.78E-05	-0.001980
-6.45E-05	-0.000143	-1.45E-05	
203	-0.000163	-1.45E-05	-0.001270
-5.75E-05	-0.000156	-2.07E-05	
204	-0.000163	-1.78E-05	-0.000519
-3.26E-05	-0.000152	-1.84E-05	
205	-0.000163	-2.19E-05	-1.28E-05
-2.09E-05	-0.000139	-1.74E-05	
206	-0.000163	-3.02E-05	-0.000832
-5.76E-05	-0.000114	-1.83E-05	
207	-0.000163	-4.10E-05	-0.001692
-7.11E-05	-8.29E-05	-1.78E-05	
208	-0.000163	-5.11E-05	-0.002491
-7.05E-05	-4.82E-05	-1.74E-05	
209	-0.000163	-5.81E-05	-0.003115
-6.25E-05	-2.44E-05	-1.44E-05	
210	-0.000163	-6.05E-05	-0.003460
-5.12E-05	-1.47E-05	-1.66E-05	
211	-0.000163	-5.82E-05	-0.003463
-3.92E-05	-7.34E-05	-1.64E-05	
212	-0.000163	-5.13E-05	-0.003110
-2.74E-05	-0.000138	-1.60E-05	
213	-0.000163	-3.97E-05	-0.002430
-1.59E-05	-0.000190	-2.47E-05	
214	-0.000163	-2.42E-05	-0.001493
-4.77E-06	-0.000223	-3.04E-05	
215	-0.000164	-6.16E-06	-0.000385
-1.60E-05	-0.000235	-2.14E-05	
216	-0.000164	-6.28E-06	-3.22E-05
-6.62E-05	-0.000231	-2.71E-05	
217	-0.000223	-2.24E-05	-9.76E-06
-0.000119	-9.49E-05	-3.45E-05	
218	-0.000223	-2.33E-05	-0.001282
-4.95E-06	-9.33E-05	-2.77E-05	
219	-0.000223	-2.46E-05	-0.002565
-1.66E-05	-7.61E-05	-2.81E-05	
220	-0.000223	-2.61E-05	-0.003455
-2.97E-05	-6.85E-05	-2.70E-05	
221	-0.000223	-2.76E-05	-0.003833
-4.25E-05	-4.59E-05	-2.57E-05	
222	-0.000223	-2.84E-05	-0.003669
-5.57E-05	-8.04E-05	-2.43E-05	
223	-0.000223	-2.78E-05	-0.003021
-6.88E-05	-0.000154	-2.27E-05	
224	-0.000223	-2.48E-05	-0.002051
-8.03E-05	-0.000202	-2.10E-05	
225	-0.000224	-1.89E-05	-0.000963
-8.11E-05	-0.000212	-2.02E-05	
226	-0.000225	-1.16E-05	-4.15E-06
-4.38E-05	-0.000181	-1.59E-05	
227	-0.000225	-8.34E-06	-0.000677
-5.21E-05	-0.000145	-1.47E-05	
228	-0.000226	-1.46E-05	-0.001831
-6.85E-05	-9.42E-05	-1.50E-05	
229	-0.000227	-1.74E-05	-0.002979
-6.65E-05	-7.11E-05	-1.49E-05	
230	-0.000227	-1.73E-05	-0.003919
-5.97E-05	-6.79E-05	-1.58E-05	
231	-0.000228	-1.54E-05	-0.004444
-5.11E-05	-5.33E-05	-1.81E-05	
232	-0.000228	-1.25E-05	-0.004450
-4.85E-05	-8.16E-05	-2.46E-05	
233	-0.000229	-9.63E-06	-0.003935
-6.04E-05	-0.000157	-3.58E-05	
234	-0.000228	-9.89E-06	-0.003001
-7.11E-05	-0.000214	-4.38E-05	
235	-0.000228	-7.12E-06	-0.001852
-7.74E-05	-0.000237	-4.76E-05	
236	-0.000228	-1.10E-06	-0.000689
-6.58E-05	-0.000222	-4.37E-05	
237	-0.000227	-6.84E-06	-4.45E-06
-3.19E-05	-0.000191	-3.80E-05	
238	-0.000227	-1.36E-05	-0.000704
-5.76E-05	-0.000152	-3.71E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	-0.000227	-2.02E-05	-0.001901
-7.22E-05	-7.56E-05	-3.00E-05	
240	-0.000226	-2.29E-05	-0.003099
-6.87E-05	-7.56E-05	-3.00E-05	
241	-0.000226	-2.26E-05	-0.004092
-6.02E-05	-6.98E-05	-2.61E-05	
242	-0.000226	-2.04E-05	-0.004649
-5.01E-05	-5.37E-05	-2.27E-05	
243	-0.000226	-2.15E-05	-0.004653
-5.11E-05	-0.000102	-2.02E-05	
244	-0.000225	-2.35E-05	-0.004104
-6.18E-05	-0.000181	-1.87E-05	
245	-0.000225	-2.33E-05	-0.003114
-7.07E-05	-0.000237	-1.80E-05	
246	-0.000225	-2.00E-05	-0.001916
-7.42E-05	-0.000252	-2.15E-05	
247	-0.000224	-1.26E-05	-0.000713
-5.97E-05	-0.000231	-1.71E-05	
248	-0.000224	-5.10E-06	-4.53E-06
-3.08E-05	-0.000196	-1.63E-05	
249	-0.000224	-3.41E-06	-0.000718
-6.60E-05	-0.000155	-1.82E-05	
250	-0.000224	-1.14E-05	-0.001934
-7.84E-05	-9.91E-05	-2.05E-05	
251	-0.000224	-1.58E-05	-0.003150
-7.26E-05	-8.37E-05	-2.12E-05	
252	-0.000223	-1.74E-05	-0.004160
-6.20E-05	-7.65E-05	-2.20E-05	
253	-0.000223	-2.20E-05	-0.004729
-5.00E-05	-5.77E-05	-2.26E-05	
254	-0.000223	-2.79E-05	-0.004740
-5.37E-05	-0.000117	-2.33E-05	
255	-0.000223	-3.15E-05	-0.004189
-6.26E-05	-0.000198	-2.37E-05	
256	-0.000223	-3.24E-05	-0.003188
-6.96E-05	-0.000251	-2.09E-05	
257	-0.000222	-2.95E-05	-0.001969
-7.13E-05	-0.000264	-2.68E-05	
258	-0.000222	-2.18E-05	-0.000736
-5.42E-05	-0.000240	-2.32E-05	
259	-0.000222	-1.36E-05	-4.42E-06
-4.36E-05	-0.000202	-2.13E-05	
260	-0.000222	-8.69E-06	-0.001194
-8.25E-05	-0.000144	-2.25E-05	
261	-0.000222	-8.24E-06	-0.002576
-8.32E-05	-9.10E-05	-2.18E-05	
262	-0.000222	-9.76E-06	-0.003907
-7.32E-05	-4.51E-05	-2.13E-05	
263	-0.000222	-1.15E-05	-0.004976
-6.13E-05	-6.71E-06	-2.09E-05	
264	-0.000221	-1.19E-05	-0.005592
-4.94E-05	-4.86E-05	-2.05E-05	
265	-0.000221	-1.15E-05	-0.005641
-3.80E-05	-0.000134	-2.04E-05	
266	-0.000221	-1.06E-05	-0.005085
-2.71E-05	-0.000228	-1.95E-05	
267	-0.000221	-1.09E-05	-0.003970
-1.65E-05	-0.000312	-2.65E-05	
268	-0.000221	-1.14E-05	-0.002409
-5.86E-06	-0.000375	-3.47E-05	
269	-0.000221	-1.22E-05	-0.000526
-4.06E-05	-0.000397	-2.77E-05	
270	-0.000221	-1.19E-05	-9.00E-06
-0.000120	-0.000390	-3.33E-05	
271	-8.58E-05	-1.71E-06	.000000
-4.98E-06	-7.47E-05	-3.80E-06	
272	-0.000249	-1.04E-05	.000000
-6.05E-06	-9.21E-05	-2.93E-06	
273	.000000	.000000	.000000
-5.19E-06	-0.000106	-2.94E-06	
274	-0.000189	-9.52E-07	.000000
-3.83E-06	-0.000111	-2.89E-06	
275	-0.000130	-3.44E-06	.000000
-7.81E-06	-0.000119	-3.09E-06	
276	-0.000147	-1.45E-06	.000000
-1.13E-06	-0.000185	-4.47E-07	
277	-0.000201	-1.27E-05	.000000
-1.11E-05	-8.78E-05	-1.27E-06	
278	-0.000352	-1.40E-05	.000000
-1.13E-05	-0.000145	-3.89E-07	
279	.000000	.000000	.000000
-7.45E-06	-0.000187	-3.59E-07	
280	-0.000259	-1.32E-06	.000000
-4.01E-06	-0.000163	-6.25E-07	
281	-0.000206	-4.61E-06	.000000
-4.49E-06	-0.000171	-3.07E-07	
282	-0.000200	-9.63E-06	.000000
-2.18E-06	-0.000310	-3.09E-07	
283	-0.000282	-3.51E-06	.000000
-2.41E-05	-0.000100	-8.55E-07	
284	-0.000463	7.94E-23	.000000
-4.39E-05	-0.000208	-4.15E-06	
285	-1.51E-07	-5.09E-06	.000000
-9.88E-06	-0.000223	-4.12E-06	
286	-0.000338	-7.68E-05	.000000
-2.24E-21	-0.000225	-3.51E-06	
287	-0.000281	-3.59E-05	.000000
-1.33E-21	-0.000238	-4.30E-06	
288	-0.000259	-3.68E-05	.000000
4.44E-21	-0.000491	-7.77E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DB-G3-2 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000263	2.08E-05	3.68E-08
3.29E-05	0.000252	1.04E-06	
2	0.000263	1.55E-05	0.000615
0.000106	0.000245	8.33E-07	
3	0.000263	1.82E-05	0.001240
0.000188	0.000208	8.14E-07	
4	0.000262	1.95E-05	0.001752
0.000245	0.000144	1.24E-06	
5	0.000262	1.97E-05	0.002095
0.000272	6.13E-05	2.15E-06	
6	0.000262	2.12E-05	0.002214
0.000266	1.79E-06	3.79E-06	
7	0.000262	2.12E-05	0.002065
0.000229	5.31E-05	4.99E-06	
8	0.000262	1.90E-05	0.001632
0.000168	0.000111	5.86E-06	
9	0.000262	1.57E-05	0.000924
9.63E-05	0.000164	6.52E-06	
10	0.000262	1.54E-05	4.66E-08
3.53E-05	0.000202	4.33E-06	
11	0.000262	1.29E-05	0.000620
4.40E-05	0.000219	3.24E-06	
12	0.000261	1.39E-05	0.001363
0.000119	0.000227	1.74E-06	
13	0.000261	1.70E-05	0.001884
0.000193	0.000207	5.98E-07	
14	0.000261	1.77E-05	0.002160
0.000254	0.000155	7.91E-07	
15	0.000260	1.59E-05	0.002215
0.000290	7.70E-05	1.56E-06	
16	0.000260	1.87E-05	0.002435
0.000295	5.44E-05	3.13E-06	
17	0.000259	2.08E-05	0.002422
0.000268	8.05E-05	4.54E-06	
18	0.000259	2.05E-05	0.002124
0.000213	9.26E-05	5.42E-06	
19	0.000258	1.60E-05	0.001548
0.000141	0.000141	6.06E-06	
20	0.000258	8.96E-06	0.000711
6.67E-05	0.000190	5.91E-06	
21	0.000258	1.04E-05	4.62E-08
2.51E-05	0.000215	4.21E-06	
22	0.000259	6.53E-06	0.000692
5.46E-05	0.000231	3.14E-06	
23	0.000260	1.17E-05	0.001518
0.000131	0.000235	1.69E-06	
24	0.000262	1.58E-05	0.002098
0.000205	0.000211	6.05E-07	
25	0.000263	1.67E-05	0.002412
0.000266	0.000153	7.55E-07	
26	0.000264	1.56E-05	0.002440
0.000300	6.76E-05	1.63E-06	
27	0.000264	1.57E-05	0.002554
0.000300	6.46E-05	3.28E-06	
28	0.000265	1.75E-05	0.002529
0.000267	9.26E-05	4.72E-06	
29	0.000266	1.69E-05	0.002203
0.000207	0.000105	5.54E-06	
30	0.000267	1.25E-05	0.001597
0.000132	0.000150	6.11E-06	
31	0.000268	8.87E-06	0.000730
5.59E-05	0.000197	5.92E-06	
32	0.000268	1.09E-05	4.61E-08
2.48E-05	0.000220	4.25E-06	
33	0.000269	9.81E-06	0.000721
6.73E-05	0.000234	3.20E-06	
34	0.000270	1.70E-05	0.001583
0.000143	0.000234	1.60E-06	
35	0.000270	2.12E-05	0.002191
0.000217	0.000207	3.42E-07	
36	0.000271	2.07E-05	0.002524
0.000274	0.000145	6.71E-07	
37	0.000271	1.75E-05	0.002657
0.000303	5.83E-05	2.11E-06	
38	0.000272	1.32E-05	0.002924
0.000299	6.76E-05	3.89E-06	
39	0.000272	9.87E-06	0.002900
0.000261	9.75E-05	5.37E-06	
40	0.000272	8.23E-06	0.002530
0.000198	0.000112	6.19E-06	
41	0.000273	4.21E-06	0.001840
0.000122	0.000173	6.52E-06	
42	0.000273	3.42E-06	0.000844
4.61E-05	0.000227	6.24E-06	
43	0.000273	1.24E-05	4.93E-08
4.05E-05	0.000253	4.28E-06	
44	0.000274	2.07E-05	0.001083
0.000111	0.000274	2.44E-05	
45	0.000274	2.66E-05	0.001964
0.000195	0.000260	9.72E-07	
46	0.000274	2.76E-05	0.002575
0.000273	0.000214	2.83E-07	
47	0.000274	2.52E-05	0.002897
0.000330	0.000136	9.87E-07	
48	0.000274	2.10E-05	0.002935
0.000358	3.95E-05	2.53E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000274	1.61E-05	0.002721
0.000354	6.97E-05	4.24E-06	
50	0.000275	1.12E-05	0.002297
0.000317	0.000106	5.84E-06	
51	0.000275	6.77E-06	0.001711
0.000250	0.000133	6.99E-06	
52	0.000275	4.13E-06	0.001011
0.000155	0.000150	8.10E-06	
53	0.000275	7.83E-06	0.000238
4.15E-05	0.000159	1.01E-05	
54	0.000275	1.50E-05	3.92E-08
2.30E-05	0.000159	1.02E-05	
55	0.000351	2.90E-05	1.92E-08
5.35E-05	0.000434	4.82E-06	
56	0.000351	2.86E-05	0.000695
0.000146	0.000418	3.71E-06	
57	0.000350	2.90E-05	0.001404
0.000287	0.000348	1.81E-06	
58	0.000350	2.94E-05	0.001996
0.000388	0.000241	9.97E-07	
59	0.000350	2.95E-05	0.002412
0.000436	0.000116	8.05E-07	
60	0.000350	2.89E-05	0.002591
0.000427	1.65E-05	7.28E-07	
61	0.000350	2.75E-05	0.002477
0.000365	4.77E-05	8.58E-07	
62	0.000351	2.51E-05	0.002028
0.000265	0.000121	1.14E-06	
63	0.000351	2.19E-05	0.001203
0.000147	0.000200	1.31E-06	
64	0.000351	1.80E-05	2.94E-08
4.49E-05	0.000280	1.05E-06	
65	0.000351	1.54E-05	0.000842
7.43E-05	0.000328	1.91E-06	
66	0.000352	1.15E-05	0.001749
0.000189	0.000358	1.64E-06	
67	0.000352	7.41E-06	0.002312
0.000306	0.000337	1.91E-06	
68	0.000352	6.29E-06	0.002568
0.000402	0.000263	8.76E-07	
69	0.000353	6.11E-06	0.002534
0.000459	0.000152	7.69E-07	
70	0.000353	6.50E-06	0.002775
0.000467	6.89E-05	8.15E-07	
71	0.000353	5.89E-06	0.002816
0.000423	9.52E-05	9.30E-07	
72	0.000353	4.84E-06	0.002539
0.000335	0.000106	9.54E-07	
73	0.000353	3.33E-06	0.001923
0.000220	0.000159	1.05E-06	
74	0.000353	4.15E-06	0.000927
0.000100	0.000239	1.17E-06	
75	0.000353	6.66E-06	3.06E-08
3.29E-05	0.000294	9.76E-07	
76	0.000353	8.14E-06	0.000908
8.54E-05	0.000339	1.91E-06	
77	0.000352	9.27E-06	0.001892
0.000074	0.000365	1.65E-06	
78	0.000352	1.27E-05	0.002515
0.000323	0.000340	1.10E-06	
79	0.000352	1.67E-05	0.002810
0.000420	0.000260	8.89E-07	
80	0.000352	1.98E-05	0.002782
0.000474	0.000141	7.04E-07	
81	0.000352	2.08E-05	0.002901
0.000475	7.89E-05	8.40E-07	
82	0.000352	1.94E-05	0.002933
0.000423	0.000107	9.63E-07	
83	0.000352	1.57E-05	0.002627
0.000326	0.000119	9.87E-07	
84	0.000352	1.18E-05	0.001978
0.000208	0.000169	1.12E-06	
85	0.000352	8.41E-06	0.000949
8.83E-05	0.000247	1.31E-06	
86	0.000352	6.25E-06	3.44E-08
3.13E-05	0.000300	1.31E-06	
87	0.000352	3.06E-06	0.000942
9.91E-05	0.000342	2.03E-06	
88	0.000352	3.39E-06	0.001965
0.000221	0.000362	1.78E-06	
89	0.000352	6.08E-06	0.002616
0.000339	0.000331	1.50E-06	
90	0.000352	1.17E-05	0.002929
0.000432	0.000247	1.50E-06	
91	0.000352	1.66E-05	0.002938
0.000478	0.000126	1.37E-06	
92	0.000352	1.89E-05	0.003278
0.000471	8.35E-05	1.10E-06	
93	0.000352	1.98E-05	0.003312
0.000412	0.000113	1.01E-06	
94	0.000352	2.00E-05	0.002966
0.000311	0.000125	9.04E-07	
95	0.000352	1.86E-05	0.002232
0.000192	0.000194	1.11E-06	
96	0.000352	1.74E-05	0.001071
7.50E-05	0.000280	1.64E-06	
97	0.000352	1.61E-05	2.70E-08
4.83E-05	0.000337	1.42E-06	
98	0.000352	1.17E-05	0.001368
0.000156	0.000392	1.99E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.

8.83E-05	0.000290	4.28E-06	
129	0.000452	1.57E-05	4.51E-08
3.99E-05	0.000377	5.72E-06	
130	0.000451	3.58E-05	0.001131
6.85E-05	0.000454	6.86E-06	
131	0.000449	7.05E-05	0.002275
0.000154	0.000500	7.57E-06	
132	0.000448	0.000105	0.002939
0.000239	0.000472	7.09E-06	
133	0.000446	0.000133	0.003212
0.000307	0.000371	5.60E-06	
134	0.000449	0.000149	0.003128
0.000344	0.000219	3.56E-06	
135	0.000444	0.000148	0.003252
0.000344	9.42E-05	1.83E-06	
136	0.000443	0.000132	0.003341
0.000309	0.000123	1.93E-06	
137	0.000442	0.000103	0.003058
0.000242	0.000132	1.85E-06	
138	0.000441	6.74E-05	0.002367
0.000157	0.000188	2.60E-06	
139	0.000440	3.18E-05	0.001176
7.06E-05	0.000298	4.66E-06	
140	0.000440	1.12E-05	4.91E-08
3.89E-05	0.000384	6.19E-06	
141	0.000439	2.01E-05	0.001169
8.78E-05	0.000458	7.43E-06	
142	0.000438	5.47E-05	0.002355
0.000176	0.000500	8.28E-06	
143	0.000437	9.31E-05	0.003048
0.000260	0.000467	7.88E-06	
144	0.000436	0.000126	0.003338
0.000322	0.000362	6.40E-06	
145	0.000435	0.000146	0.003260
0.000349	0.000208	4.18E-06	
146	0.000435	0.000150	0.003632
0.000341	9.85E-05	2.06E-06	
147	0.000434	0.000138	0.003725
0.000297	0.000128	1.36E-06	
148	0.000434	0.000112	0.003402
0.000225	0.000139	1.33E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000433	7.88E-05	0.002627
0.000140	0.000211	2.53E-06	
150	0.000433	4.43E-05	0.001302
5.88E-05	0.000331	4.86E-06	
151	0.000433	2.25E-05	4.26E-08
6.35E-05	0.000422	6.47E-06	
152	0.000433	2.35E-05	0.001661
0.000145	0.000522	8.23E-06	
153	0.000432	5.71E-05	0.002788
0.000240	0.000542	9.07E-06	
154	0.000432	9.77E-05	0.003445
0.000324	0.000484	8.77E-06	
155	0.000432	0.000134	0.003712
0.000381	0.000362	7.40E-06	
156	0.000431	0.000160	0.003647
0.000403	0.000202	5.16E-06	
157	0.000431	0.000170	0.003310
0.000390	9.62E-05	2.50E-06	
158	0.000431	0.000162	0.002757
0.000348	0.000134	1.19E-06	
159	0.000431	0.000137	0.002039
0.000272	0.000161	1.34E-06	
160	0.000430	9.85E-05	0.001201
0.000167	0.000180	1.46E-06	
161	0.000430	5.16E-05	0.000283
4.43E-05	0.000191	1.53E-06	
162	0.000430	3.72E-05	2.39E-08
1.95E-05	0.000191	1.54E-06	
163	0.000307	1.99E-05	7.02E-05
2.69E-05	0.000324	5.02E-05	
164	0.000306	2.19E-05	0.000657
0.000110	0.000323	3.76E-05	
165	0.000306	2.35E-05	0.001318
0.000271	0.000275	3.56E-05	
166	0.000306	2.44E-05	0.001864
0.000366	0.000194	3.29E-05	
167	0.000306	2.45E-05	0.002237
0.000404	9.23E-05	3.17E-05	
168	0.000306	2.35E-05	0.002380
0.000389	1.16E-05	3.01E-05	
169	0.000306	2.26E-05	0.002242
0.000327	5.60E-05	2.84E-05	
170	0.000306	2.07E-05	0.001796
0.000228	0.000119	2.65E-05	
171	0.000306	1.84E-05	0.001034
0.000107	0.000181	2.48E-05	
172	0.000306	1.59E-05	3.64E-05
9.53E-06	0.000236	2.18E-05	
173	0.000306	1.39E-05	0.000705
3.67E-05	0.000270	2.18E-05	
174	0.000306	1.12E-05	0.001523
0.000158	0.000289	2.39E-05	
175	0.000306	9.25E-06	0.002067
0.000275	0.000270	2.21E-05	
176	0.000306	9.77E-06	0.002339
0.000369	0.000207	2.21E-05	
177	0.000306	1.07E-05	0.002346
0.000420	0.000115	2.46E-05	
178	0.000306	1.21E-05	0.002587
0.000426	6.72E-05	2.86E-05	
179	0.000306	1.33E-05	0.002594
0.000385	9.26E-05	3.40E-05	
180	0.000305	1.35E-05	0.002301
0.000298	0.000104	4.03E-05	
181	0.000305	1.14E-05	0.001702
0.000183	0.000154	4.70E-05	
182	0.000306	5.77E-06	0.000793
6.13E-05	0.000213	5.02E-05	
183	0.000306	4.24E-06	3.45E-05
4.78E-06	0.000251	4.98E-05	
184	0.000306	5.75E-06	0.000774
4.80E-05	0.000282	5.67E-05	
185	0.000307	7.56E-06	0.001672
0.000171	0.000296	6.17E-05	
186	0.000307	8.91E-06	0.002276
0.000290	0.000272	5.69E-05	
187	0.000308	1.12E-05	0.002586
0.000384	0.000202	4.68E-05	
188	0.000308	1.32E-05	0.002593
0.000432	0.000102	3.20E-05	
189	0.000308	1.45E-05	0.002709
0.000433	7.72E-05	2.01E-05	
190	0.000308	1.47E-05	0.002705
0.000386	0.000105	1.46E-05	
191	0.000308	1.37E-05	0.002383
0.000293	0.000136	1.22E-05	
192	0.000309	1.15E-05	0.001753
0.000174	0.000164	1.47E-05	
193	0.000309	7.98E-06	0.000812
5.09E-05	0.000222	2.01E-05	
194	0.000310	4.77E-06	3.47E-05
3.93E-06	0.000258	2.21E-05	
195	0.000310	5.62E-06	0.000806
6.11E-05	0.000286	2.72E-05	
196	0.000311	1.08E-05	0.001741
0.000185	0.000295	3.11E-05	
197	0.000311	1.22E-05	0.002372
0.000304	0.000265	2.84E-05	
198	0.000311	1.12E-05	0.002701
0.000394	0.000190	2.75E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000311	8.95E-06	0.002786
0.000436	8.91E-05	2.96E-05	
200	0.000311	6.46E-06	0.003083
0.000431	8.14E-05	3.24E-05	
201	0.000311	5.51E-06	0.003080
0.000378	0.000110	3.42E-05	
202	0.000312	4.95E-06	0.002715
0.000282	0.000123	3.49E-05	
203	0.000312	4.51E-06	0.002000
0.000161	0.000190	3.47E-05	
204	0.000312	4.66E-06	0.000930
3.76E-05	0.000255	3.18E-05	3.77E-05
205	0.000312	9.55E-06	
9.49E-06	0.000298	3.28E-05	
206	0.000312	1.65E-05	0.001193
0.000116	0.000332	3.67E-05	
207	0.000313	1.85E-05	0.002132
0.000248	0.000324	3.57E-05	
208	0.000313	1.77E-05	0.002760
0.000364	0.000273	3.29E-05	
209	0.000313	1.52E-05	0.003076
0.000451	0.000180	2.86E-05	
210	0.000313	1.18E-05	0.003095
0.000496	6.85E-05	2.60E-05	
211	0.000313	8.50E-06	0.002856
0.000495	8.30E-05	2.49E-05	
212	0.000313	8.12E-06	0.002405
0.000448	0.000118	2.40E-05	
213	0.000313	9.44E-06	0.001791
0.000351	0.000144	2.34E-05	
214	0.000313	1.04E-05	0.001061
0.000201	0.000160	2.36E-05	
215	0.000313	1.20E-05	0.000257
1.98E-05	0.000165	1.59E-05	
216	0.000313	1.18E-05	5.85E-05
2.66E-05	0.000165	1.95E-05	
217	0.000396	3.45E-05	7.97E-05
4.44E-05	0.000826	7.74E-05	
218	0.000396	3.44E-05	0.000734
0.000154	0.000708	5.84E-05	
219	0.000396	4.85E-05	0.001492
0.000330	0.000625	5.23E-05	
220	0.000396	6.52E-05	0.002129
0.000439	0.000500	4.75E-05	
221	0.000396	7.15E-05	0.002589
0.000482	0.000360	4.22E-05	
222	0.000396	6.69E-05	0.002806
0.000466	0.000238	3.82E-05	
223	0.000396	5.27E-05	0.002717
0.000400	0.000229	3.64E-05	
224	0.000397	3.56E-05	0.002264
0.000289	0.000285	2.58E-05	
225	0.000397	2.64E-05	0.001377
0.000151	0.000375	3.74E-05	
226	0.000398	2.17E-05	3.36E-05
3.84E-05	0.000422	3.38E-05	
227	0.000398	1.82E-05	0.000982
6.74E-05	0.000543	3.75E-05	
228	0.000399	2.11E-05	0.001978
0.000198	0.000622	4.22E-05	
229	0.000399	4.17E-05	0.002561
0.000325	0.000606	4.10E-05	
230	0.000400	5.85E-05	0.002798
0.000430	0.000523	3.84E-05	
231	0.000400	6.72E-05	0.002730
0.000486	0.000401	3.62E-05	
232	0.000401	6.67E-05	0.002964
0.000493	0.000282	3.54E-05	
233	0.000401	5.68E-05	0.003040
0.000450	0.000279	3.76E-05	
234	0.000401	3.90E-05	0.002782
0.000353	0.000274	4.24E-05	
235	0.000401	1.76E-05	0.002147
0.000223	0.000313	5.03E-05	
236	0.000401	2.10E-06	0.001065
8.39E-05	0.000344	5.40E-05	
237	0.000401	8.82E-06	3.25E-05
2.05E-05	0.000419	5.75E-05	
238	0.000401	2.00E-05	0.001046
6.91E-05	0.000554	7.13E-05	
239	0.000400	4.11E-05	0.002117
0.000200	0.000630	8.12E-05	
240	0.000399	6.38E-05	0.002759
0.000332	0.000612	7.70E-05	
241	0.000399	8.21E-05	0.003036
0.000438	0.000522	8.49E-05	
242	0.000398	9.21E-05	0.002973
0.000490	0.000392	4.65E-05	
243	0.000398	9.19E-05	0.003095
0.000490	0.000287	3.27E-05	
244	0.000397	8.16E-05	0.003163
0.000439	0.000284	2.79E-05	
245	0.000397	6.27E-05	0.002875
0.000335	0.000280	2.51E-05	
246	0.000396	3.94E-05	0.002207
0.000203	0.000322	2.60E-05	
247	0.000396	1.77E-05	0.001091
7.05E-05	0.000353	2.55E-05	
248	0.000396	6.39E-06	3.31E-05
1.92E-05	0.000426	3.04E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000395	5.53E-06	0.001081
8.22E-05	0.000558	4.17E-05	
250	0.000394	2.52E-05	0.002194
0.000223	0.000628	5.01E-05	
251	0.000394	5.15E-05	0.002864
0.000257	0.000504	4.80E-05	
252	0.000394	7.42E-05	0.003159
0.000458	0.000509	4.40E-05	
253	0.000393	8.89E-05	0.003105
0.000503	0.000376	4.13E-05	
254	0.000393	9.34E-05	0.003475
0.000496	0.000289	3.94E-05	
255	0.000393	8.74E-05	0.003546
0.000439	0.000287	3.87E-05	
256	0.000393	7.17E-05	0.003219
0.000330	0.000284	3.85E-05	
257	0.000393	5.05E-05	0.002467
0.000199	0.000349	4.01E-05	
258	0.000392	2.96E-05	0.001218
6.76E-05	0.000390	3.73E-05	
259	0.000392	1.77E-05	3.63E-05
3.71E-05	0.000525	4.22E-05	
260	0.000392	1.11E-05	0.001547
0.000154	0.000646	5.58E-05	
261	0.000392	2.11E-05	0.002616
0.000303	0.000666	6.86E-05	
262	0.000392	4.84E-05	0.003258
0.000434	0.000613	5.44E-05	
263	0.000392	7.46E-05	0.003532
0.000527	0.000501	4.44E-05	
264	0.000392	9.37E-05	0.003486
0.000572	0.000361	3.89E-05	
265	0.000392	9.00E-05	0.003174
0.000570	0.000286	3.36E-05	
266	0.000392	0.000100	0.002648
0.000518	0.000286	3.13E-05	
267	0.000391	8.48E-05	0.001958
0.000411	0.000291	3.02E-05	
268	0.000391	6.12E-05	0.001151
0.000244	0.000287	2.96E-05	
269	0.000391	3.67E-05	0.000265
2.43E-05	0.000182	1.86E-05	
270	0.000391	2.87E-05	7.37E-05
3.47E-05	0.000182	2.28E-05	
271	0.000212	3.12E-06	.000000
4.05E-05	0.000251	1.04E-06	
272	0.000357	2.69E-05	.000000
3.63E-05	0.000199	4.33E-06	
273	.000000	.000000	.000000
2.57E-05	0.000214	4.21E-06	
274	0.000515	1.30E-06	.000000
2.64E-05	0.000219	4.25E-06	
275	0.000196	9.14E-06	.000000
5.79E-05	0.000249	4.28E-06	
276	0.000463	4.56E-06	.000000
2.27E-05	0.000159	1.02E-05	
277	0.000296	3.07E-05	.000000
8.70E-05	0.000427	4.82E-06	
278	0.000454	3.55E-05	.000000
5.01E-05	0.000278	1.05E-06	
279	.000000	.000000	.000000
3.63E-05	0.000293	9.76E-07	
280	0.000669	1.68E-06	.000000
3.30E-05	0.000300	1.31E-06	
281	0.000340	5.87E-06	.000000
3.54E-05	0.000339	1.42E-06	
282	0.000662	3.19E-05	.000000
3.57E-05	0.000177	2.29E-06	
283	0.000397	6.56E-05	.000000
0.000180	0.000605	1.04E-05	
284	0.000557	2.51E-05	.000000
0.000120	0.000340	5.87E-06	
285	1.30E-06	4.40E-05	.000000
4.30E-05	0.000376	5.72E-06	
286	0.000792	0.000211	.000000
1.71E-05	0.000387	6.19E-06	
287	0.000384	9.56E-05	.000000
2.13E-06	0.000426	6.47E-06	
288	0.000859	0.000178	.000000
4.31E-05	0.000196	1.54E-06	

COMB DB-G3-2 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000259	-3.89E-05	-7.53E-09
-1.72E-05	-0.000139	-1.04E-05	
2	-0.000259	-6.83E-05	-0.001083
-1.48E-05	-0.000134	-8.82E-06	
3	-0.000258	-9.87E-05	-0.002135
-2.20E-05	-0.000118	-5.49E-06	
4	-0.000252	-0.000117	-0.002895
-3.46E-05	-9.11E-05	-4.09E-06	
5	-0.000259	-0.000123	-0.003255
-4.78E-05	-5.24E-05	-2.42E-06	
6	-0.000259	-0.000118	-0.003171
-5.89E-05	-3.92E-05	-8.23E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000259	-0.000101	-0.002682
-6.47E-05	-0.000113	-2.41E-07	
8	-0.000258	-7.63E-05	-0.001897
-6.05E-05	-0.000164	-1.25E-06	
9	-0.000257	-4.85E-05	-0.000955
-4.08E-05	-0.000187	-2.79E-06	
10	-0.000256	-3.12E-05	-1.27E-08
-8.16E-06	-0.000183	-4.24E-06	
11	-0.000255	-4.44E-05	-0.000729
-1.48E-05	-0.000168	-6.00E-06	
12	-0.000253	-7.01E-05	-0.001821
-4.04E-05	-0.000131	-6.07E-06	
13	-0.000251	-9.71E-05	-0.002857
-5.49E-05	-0.000106	-5.39E-06	
14	-0.000249	-0.000119	-0.003689
-5.91E-05	-9.41E-05	-4.56E-06	
15	-0.000248	-0.000131	-0.004152
-5.62E-05	-6.69E-05	-3.15E-06	
16	-0.000247	-0.000131	-0.004163
-5.42E-05	-4.68E-05	-1.58E-06	
17	-0.000247	-0.000120	-0.003718
-6.19E-05	-0.000125	-7.74E-07	
18	-0.000248	-9.87E-05	-0.002896
-6.25E-05	-0.000185	-4.72E-07	
19	-0.000249	-7.15E-05	-0.001859
-5.19E-05	-0.000215	-1.65E-06	
20	-0.000249	-4.47E-05	-0.000750
-2.61E-05	-0.000218	-3.14E-06	
21	-0.000249	-2.01E-05	-1.41E-08
-8.67E-06	-0.000208	-4.22E-06	
22	-0.000250	-3.14E-05	-0.000777
-1.94E-05	-0.000187	-5.93E-06	
23	-0.000251	-5.79E-05	-0.001937
-4.56E-05	-0.000143	-6.11E-06	
24	-0.000252	-8.53E-05	-0.003040
-5.85E-05	-0.000110	-5.48E-06	
25	-0.000253	-0.000106	-0.003932
-6.07E-05	-9.76E-05	-4.61E-06	
26	-0.000254	-0.000117	-0.004428
-5.56E-05	-6.80E-05	-3.17E-06	
27	-0.000255	-0.000117	-0.004432
-5.67E-05	-4.05E-05	-1.70E-06	
28	-0.000256	-0.000105	-0.003944
-6.22E-05	-0.000150	-7.79E-07	
29	-0.000256	-8.40E-05	-0.003055
-6.01E-05	-0.000209	-5.21E-07	
30	-0.000257	-5.66E-05	-0.001950
-4.70E-05	-0.000235	-1.62E-06	
31	-0.000258	-3.05E-05	-0.000784
-2.00E-05	-0.000232	-3.04E-06	
32	-0.000258	-3.11E-05	-1.29E-08
-8.78E-06	-0.000217	-4.11E-06	
33	-0.000258	-4.50E-05	-0.000796
-2.64E-05	-0.000194	-5.87E-06	
34	-0.000259	-7.08E-05	-0.001987
-5.29E-05	-0.000147	-5.91E-06	
35	-0.000259	-9.61E-05	-0.003122
-6.41E-05	-0.000124	-4.94E-06	
36	-0.000260	-0.000114	-0.004044
-6.40E-05	-0.000110	-3.99E-06	
37	-0.000260	-0.000121	-0.004561
-5.62E-05	-7.57E-05	-2.62E-06	
38	-0.000260	-0.000121	-0.004578
-5.92E-05	-7.70E-05	-1.47E-06	
39	-0.000261	-0.000101	-0.004088
-6.22E-05	-0.000165	-1.01E-06	
40	-0.000262	-7.75E-05	-0.003181
-5.74E-05	-0.000224	-1.01E-06	
41	-0.000262	-5.09E-05	-0.002044
-4.19E-05	-0.000249	-2.28E-06	
42	-0.000263	-4.50E-05	-0.000829
-1.49E-05	-0.000246	-3.69E-06	
43	-0.000263	-5.76E-05	-1.73E-08
-8.37E-06	-0.000232	-4.32E-06	
44	-0.000263	-7.69E-05	-0.001340
-4.24E-05	-0.000198	-6.19E-06	
45	-0.000263	-0.000101	-0.002734
-6.45E-05	-0.000147	-5.68E-06	
46	-0.000264	-0.000124	-0.004019
-7.09E-05	-8.88E-05	-4.81E-06	
47	-0.000264	-0.000140	-0.005018
-6.73E-05	-3.05E-05	-4.13E-06	
48	-0.000264	-0.000147	-0.005563
-5.79E-05	-1.30E-05	-3.02E-06	
49	-0.000264	-0.000143	-0.005557
-4.61E-05	-0.000105	-1.91E-06	
50	-0.000264	-0.000129	-0.004974
-3.35E-05	-0.000210	-1.55E-06	
51	-0.000264	-0.000105	-0.003865
-2.14E-05	-0.000297	-9.66E-07	
52	-0.000264	-7.15E-05	-0.002346
-1.31E-05	-0.000357	-8.84E-07	
53	-0.000264	-3.42E-05	-0.000558
-1.42E-05	-0.000379	-8.27E-07	
54	-0.000264	-2.67E-05	-7.12E-09
-1.56E-05	-0.000378	-8.21E-07	
55	-0.000343	-7.19E-05	-1.83E-07
-2.91E-05	-0.000157	-1.88E-06	
56	-0.000343	-5.28E-05	-0.001883
-6.71E-06	-0.000152	-1.60E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000343	-4.05E-05	-0.003672
-2.32E-05	-0.000136	-1.08E-06	
58	-0.000342	-3.56E-05	-0.004926
-4.24E-05	-0.000108	-8.52E-07	
59	-0.000342	-3.49E-05	-0.005477
-6.22E-05	-6.83E-05	-8.15E-07	
60	-0.000342	-3.60E-05	-0.005267
-7.98E-05	-0.000109	-8.62E-07	
61	-0.000343	-3.66E-05	-0.004370
-9.12E-05	-0.000216	-1.01E-06	
62	-0.000343	-3.80E-05	-0.003008
-8.99E-05	-0.000286	-1.62E-06	
63	-0.000343	-4.11E-05	-0.001456
-6.59E-05	-0.000303	-2.28E-06	
64	-0.000344	-4.28E-05	-2.38E-07
-1.56E-05	-0.000265	-9.59E-07	
65	-0.000344	-3.87E-05	-0.001053
-2.46E-05	-0.000220	-9.52E-07	
66	-0.000344	-3.15E-05	-0.002732
-6.34E-05	-0.000152	-9.48E-07	
67	-0.000344	-2.71E-05	-0.004384
-8.14E-05	-0.000119	-1.06E-06	
68	-0.000344	-2.49E-05	-0.005731
-8.31E-05	-0.000109	-9.83E-07	
69	-0.000344	-2.31E-05	-0.006483
-7.54E-05	-8.23E-05	-8.53E-07	
70	-0.000344	-2.16E-05	-0.006494
-7.20E-05	-0.000111	-6.69E-07	
71	-0.000344	-2.38E-05	-0.005761
-8.52E-05	-0.000222	-7.99E-07	
72	-0.000344	-2.58E-05	-0.004423
-9.01E-05	-0.000306	-8.96E-07	
73	-0.000344	-2.96E-05	-0.002769
-7.96E-05	-0.000341	-1.61E-06	
74	-0.000344	-3.59E-05	-0.001074
-4.46E-05	-0.000326	-1.99E-06	
75	-0.000344	-3.94E-05	-2.37E-07
-5.56E-06	-0.000287	-9.97E-07	
76	-0.000344	-3.79E-05	-0.001101
-3.16E-05	-0.000237	-1.12E-06	
77	-0.000344	-3.41E-05	-0.002852
-7.04E-05	-0.000163	-1.06E-06	
78	-0.000344	-3.15E-05	-0.004583
-8.53E-05	-0.000124	-1.07E-06	
79	-0.000344	-2.97E-05	-0.006012
-8.44E-05	-0.000113	-1.03E-06	
80	-0.000344	-2.70E-05	-0.006811
-7.41E-05	-8.32E-05	-8.74E-07	
81	-0.000344	-2.89E-05	-0.006818
-7.55E-05	-0.000137	-7.24E-07	
82	-0.000344	-3.14E-05	-0.006029
-8.66E-05	-0.000256	-8.76E-07	
83	-0.000344	-3.29E-05	-0.004605
-8.82E-05	-0.000337	-9.76E-07	
84	-0.000344	-3.48E-05	-0.002872
-7.35E-05	-0.000365	-1.14E-06	
85	-0.000344	-3.78E-05	-0.001112
-3.42E-05	-0.000341	-2.20E-06	
86	-0.000344	-3.86E-05	-2.38E-07
-3.80E-06	-0.000298	-1.35E-06	
87	-0.000344	-3.43E-05	-0.001124
-4.33E-05	-0.000244	-1.51E-06	
88	-0.000344	-2.68E-05	-0.002907
-7.99E-05	-0.000166	-1.59E-06	
89	-0.000344	-2.54E-05	-0.004669
-9.17E-05	-0.000139	-1.69E-06	
90	-0.000344	-2.81E-05	-0.006128
-8.75E-05	-0.000125	-1.65E-06	
91	-0.000344	-3.25E-05	-0.006950
-7.41E-05	-9.08E-05	-1.48E-06	
92	-0.000344	-3.91E-05	-0.006970
-7.92E-05	-0.000155	-1.17E-06	
93	-0.000344	-4.39E-05	-0.006180
-8.73E-05	-0.000276	-8.42E-07	
94	-0.000344	-4.63E-05	-0.004737
-8.52E-05	-0.000357	-8.35E-07	
95	-0.000344	-4.84E-05	-0.002970
-6.61E-05	-0.000382	-1.46E-06	
96	-0.000344	-5.15E-05	-0.001158
-2.49E-05	-0.000356	-1.79E-06	
97	-0.000344	-5.21E-05	-2.47E-07
-1.78E-05	-0.000312	-1.04E-06	
98	-0.000344	-4.98E-05	-0.001854
-6.94E-05	-0.000235	-1.19E-06	
99	-0.000344	-3.70E-05	-0.003896
-9.53E-05	-0.000158	-1.07E-06	
100	-0.000344	-3.07E-05	-0.005842
-9.87E-05	-8.52E-05	-9.04E-07	
101	-0.000344	-2.49E-05	-0.007394
-8.94E-05	-2.01E-05	-7.96E-07	
102	-0.000344	-2.14E-05	-0.008278
-7.42E-05	-5.35E-05	-6.71E-07	
103	-0.000344	-2.00E-05	-0.008325
-5.70E-05	-0.000179	-5.22E-07	
104	-0.000344	-1.83E-05	-0.007490
-3.98E-05	-0.000321	-4.68E-07	
105	-0.000344	-2.06E-05	-0.005850
-2.34E-05	-0.000445	-8.40E-07	
106	-0.000344	-2.71E-05	-0.003576
-9.59E-06	-0.000536	-2.14E-06	

J O I N T D I S P

132	-0.000440	-5.78E-05	-0.006186
-0.000104	-0.000138	-1.85E-06	
133	-0.000439	-5.50E-05	-0.008162
-0.000104	-0.000128	-1.90E-06	
134	-0.000438	-4.88E-05	-0.009263
-9.63E-05	-9.87E-05	-1.97E-06	
135	-0.000437	-5.04E-05	-0.009271
-9.69E-05	-0.000215	-3.69E-06	
136	-0.000436	-5.56E-05	-0.008184
-0.000104	-0.000367	-5.75E-06	
137	-0.000435	-5.76E-05	-0.006215
-0.000105	-0.000470	-7.26E-06	
138	-0.000434	-5.41E-05	-0.003835
-8.86E-05	-0.000501	-7.78E-06	
139	-0.000433	-4.25E-05	-0.001455
-5.14E-05	-0.000457	-7.15E-06	
140	-0.000433	-2.92E-05	-4.33E-07
-4.06E-05	-0.000383	-6.08E-06	
141	-0.000432	-3.19E-05	-0.001466
-5.38E-05	-0.000296	-4.73E-06	
142	-0.000431	-4.38E-05	-0.003869
-8.94E-05	-0.000186	-3.03E-06	
143	-0.000431	-4.81E-05	-0.006279
-0.000103	-0.000153	-2.52E-06	
144	-0.000430	-4.75E-05	-0.008284
-0.000102	-0.000141	-2.60E-06	
145	-0.000429	-5.06E-05	-0.009409
-9.45E-05	-0.000107	-2.45E-06	
146	-0.000428	-6.16E-05	-0.009429
-0.000100	-0.000228	-3.29E-06	
147	-0.000428	-6.93E-05	-0.008339
-0.000108	-0.000382	-5.11E-06	
148	-0.000427	-7.13E-05	-0.006351
-0.000107	-0.000486	-6.76E-06	
149	-0.000427	-6.78E-05	-0.003934
-8.86E-05	-0.000516	-7.45E-06	
150	-0.000426	-5.65E-05	-0.001502
-5.24E-05	-0.000472	-6.91E-06	
151	-0.000426	-4.37E-05	-4.40E-07
-4.26E-05	-0.000398	-5.93E-06	
152	-0.000426	-4.11E-05	-0.002386
-6.98E-05	-0.000278	-4.15E-06	
153	-0.000425	-4.05E-05	-0.005099
-9.52E-05	-0.000174	-2.41E-06	
154	-0.000425	-4.31E-05	-0.007718
-0.000100	-8.67E-05	-1.12E-06	
155	-0.000424	-4.24E-05	-0.009828
-9.41E-05	-1.47E-05	-4.61E-07	
156	-0.000424	-3.97E-05	-0.011052
-8.59E-05	-8.35E-05	-9.49E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000424	-3.56E-05	-0.011162
-8.15E-05	-2.46E-06		
158	-0.000423	-3.05E-05	-0.010090
-8.32E-05	-0.000413	-4.68E-06	
159	-0.000423	-3.07E-05	-0.007920
-8.73E-05	-0.000579	-7.32E-06	
160	-0.000423	-3.88E-05	-0.004868
-8.52E-05	-0.000716	-9.77E-06	
161	-0.000423	-5.02E-05	-0.001174
-7.46E-05	-0.000794	-1.11E-05	
162	-0.000423	-5.38E-05	-3.61E-07
-7.14E-05	-0.000798	-1.12E-05	
163	-0.000301	-3.76E-05	-4.07E-05
-0.000121	-0.000146	-4.62E-05	
164	-0.000300	-5.41E-05	-0.001456
-6.92E-06	-0.000147	-3.72E-05	
165	-0.000300	-6.86E-05	-0.002809
-2.31E-05	-0.000131	-3.73E-05	
166	-0.000300	-7.59E-05	-0.003763
-4.19E-05	-0.000105	-3.54E-05	
167	-0.000300	-7.57E-05	-0.004195
-6.13E-05	-6.68E-05	-3.28E-05	
168	-0.000300	-7.22E-05	-0.004058
-8.00E-05	-6.85E-05	-2.96E-05	
169	-0.000300	-6.39E-05	-0.003406
-9.57E-05	-0.000158	-2.69E-05	
170	-0.000300	-5.18E-05	-0.002381
-0.000105	-0.000221	-2.63E-05	
171	-0.000300	-3.75E-05	-0.001182
-9.63E-05	-0.000244	-2.60E-05	
172	-0.000299	-2.95E-05	-1.64E-05
-4.60E-05	-0.000227	-2.08E-05	
173	-0.000299	-3.58E-05	-0.000882
-5.62E-05	-0.000197	-1.73E-05	
174	-0.000298	-4.97E-05	-0.002224
-8.36E-05	-0.000149	-1.46E-05	
175	-0.000297	-6.35E-05	-0.003520
-8.78E-05	-0.000117	-1.38E-05	
176	-0.000296	-7.48E-05	-0.004563
-8.23E-05	-0.000107	-1.58E-05	
177	-0.000295	-8.07E-05	-0.005142
-7.17E-05	-8.06E-05	-2.09E-05	
178	-0.000295	-8.09E-05	-0.005153
-6.92E-05	-7.60E-05	-3.15E-05	
179	-0.000295	-7.58E-05	-0.004592
-8.50E-05	-0.000169	-4.54E-05	
180	-0.000296	-6.49E-05	-0.003560
-9.60E-05	-0.000241	-5.53E-05	
181	-0.000297	-5.07E-05	-0.002261
-9.73E-05	-6.04E-05		
182	-0.000297	-3.55E-05	-0.000903
-7.47E-05	-0.000271	-5.58E-05	
183	-0.000297	-2.76E-05	-1.62E-05
-3.40E-05	-0.000246	-4.92E-05	
184	-0.000297	-2.42E-05	-0.000930
-6.33E-05	-0.000212	-4.96E-05	
185	-0.000298	-3.85E-05	-0.002343
-8.90E-05	-0.000158	-4.68E-05	
186	-0.000298	-5.22E-05	-0.003712
-9.12E-05	-0.000122	-4.01E-05	
187	-0.000298	-6.18E-05	-0.004824
-8.35E-05	-0.000110	-3.38E-05	
188	-0.000299	-6.64E-05	-0.005441
-7.05E-05	-8.12E-05	-2.79E-05	
189	-0.000299	-6.64E-05	-0.005446
-7.20E-05	-9.84E-05	-2.37E-05	
190	-0.000299	-6.18E-05	-0.004837
-8.57E-05	-0.000199	-2.10E-05	
191	-0.000300	-5.22E-05	-0.003729
-9.39E-05	-0.000270	-2.14E-05	
192	-0.000300	-3.85E-05	-0.002358
-9.22E-05	-0.000296	-2.31E-05	
193	-0.000300	-2.44E-05	-0.000938
-6.61E-05	-0.000284	-2.16E-05	
194	-0.000300	-2.75E-05	-1.71E-05
-3.25E-05	-0.000254	-1.92E-05	
195	-0.000301	-3.48E-05	-0.000953
-7.44E-05	-0.000217	-2.09E-05	
196	-0.000301	-4.86E-05	-0.002396
-9.83E-05	-0.000160	-2.39E-05	
197	-0.000301	-6.05E-05	-0.003797
-9.78E-05	-0.000136	-2.55E-05	
198	-0.000301	-6.82E-05	-0.004938
-8.72E-05	-0.000122	-2.72E-05	
199	-0.000302	-6.97E-05	-0.005578
-7.12E-05	-8.85E-05	-2.88E-05	
200	-0.000302	-6.68E-05	-0.005595
-7.54E-05	-0.000115	-3.00E-05	
201	-0.000302	-6.04E-05	-0.004986
-8.66E-05	-0.000218	-3.18E-05	
202	-0.000302	-4.90E-05	-0.003860
-9.22E-05	-0.000288	-3.49E-05	
203	-0.000303	-3.62E-05	-0.002457
-8.77E-05	-0.000312	-3.78E-05	
204	-0.000303	-4.03E-05	-0.000987
-5.85E-05	-0.000297	-3.32E-05	
205	-0.000303	-4.51E-05	-1.96E-05
-4.67E-05	-0.000267	-3.04E-05	
206	-0.000303	-5.53E-05	-0.001582
-9.91E-05	-0.000216	-2.99E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000303	-6.87E-05	-0.003258
-0.000109	-0.000155	-5.84E-05	
208	-0.000303	-7.95E-05	-0.004827
-0.000102	-9.21E-05	-2.77E-05	
209	-0.000303	-8.54E-05	-0.006058
-8.87E-05	-3.18E-05	-2.70E-05	
210	-0.000303	-8.53E-05	-0.006741
-7.22E-05	-3.69E-05	-2.64E-05	
211	-0.000304	-7.96E-05	-0.006757
-5.52E-05	-0.000145	-2.60E-05	
212	-0.000304	-7.37E-05	-0.006076
-3.86E-05	-0.000266	-3.14E-05	
213	-0.000304	-6.31E-05	-0.004750
-2.31E-05	-0.000369	-4.39E-05	
214	-0.000304	-4.70E-05	-0.002914
-9.29E-06	-0.000438	-5.45E-05	
215	-0.000304	-2.56E-05	-0.000733
-4.11E-05	-0.000462	-3.89E-05	
216	-0.000304	-2.38E-05	-4.54E-05
-0.000127	-0.000453	-4.88E-05	
217	-0.000387	-6.85E-05	-0.000148
-0.000180	-0.000186	-4.89E-05	
218	-0.000387	-5.45E-05	-0.002327
-5.28E-05	-0.000323	-4.32E-05	
219	-0.000387	-4.42E-05	-0.004569
-6.76E-05	-0.000295	-4.17E-05	
220	-0.000386	-4.48E-05	-0.006151
-6.54E-05	-0.000290	-4.10E-05	
221	-0.000386	-4.75E-05	-0.006823
-7.64E-05	-0.000286	-4.09E-05	
222	-0.000386	-4.93E-05	-0.006534
-9.30E-05	-0.000370	-4.29E-05	
223	-0.000387	-5.03E-05	-0.005374
-0.000109	-0.000485	-4.47E-05	
224	-0.000387	-4.94E-05	-0.003651
-0.000121	-0.000557	-4.47E-05	
225	-0.000388	-4.65E-05	-0.001739
-0.000115	-0.000561	-4.40E-05	
226	-0.000389	-4.13E-05	-9.01E-05
-5.73E-05	-0.000462	-3.29E-05	
227	-0.000390	-3.64E-05	-0.001233
-7.85E-05	-0.000341	-2.66E-05	
228	-0.000391	-3.97E-05	-0.003256
-0.000108	-0.000317	-2.76E-05	
229	-0.000392	-3.91E-05	-0.005278
-0.000108	-0.000281	-2.66E-05	
230	-0.000393	-3.64E-05	-0.006952
-0.000101	-0.000286	-2.87E-05	
231	-0.000394	-3.19E-05	-0.007888
-8.83E-05	-0.000288	-3.38E-05	
232	-0.000395	-2.61E-05	-0.007899
-8.35E-05	-0.000361	-4.57E-05	
233	-0.000395	-2.49E-05	-0.006981
-0.000100	-0.000484	-6.32E-05	
234	-0.000395	-2.78E-05	-0.005316
-0.000112	-0.000577	-7.52E-05	
235	-0.000394	-2.80E-05	-0.003292
-0.000114	-0.000607	-8.00E-05	
236	-0.000393	-2.48E-05	-0.001252
-8.65E-05	-0.000543	-7.05E-05	
237	-0.000392	-3.45E-05	-8.06E-05
-3.87E-05	-0.000414	-5.69E-05	
238	-0.000393	-4.11E-05	-0.001279
-7.51E-05	-0.000345	-5.35E-05	
239	-0.000391	-4.51E-05	-0.003377
-0.000107	-0.000317	-5.00E-05	
240	-0.000391	-4.54E-05	-0.005484
-0.000110	-0.000284	-4.21E-05	
241	-0.000391	-4.28E-05	-0.007254
-0.000101	-0.000288	-3.98E-05	
242	-0.000390	-3.81E-05	-0.008247
-8.64E-05	-0.000290	-3.46E-05	
243	-0.000390	-3.98E-05	-0.008254
-8.75E-05	-0.000387	-3.52E-05	
244	-0.000390	-4.40E-05	-0.007274
-0.000102	-0.000518	-3.77E-05	
245	-0.000389	-4.60E-05	-0.005511
-0.000112	-0.000610	-4.03E-05	
246	-0.000389	-4.48E-05	-0.003402
-0.000110	-0.000631	-4.12E-05	
247	-0.000388	-3.98E-05	-0.001293
-7.78E-05	-0.000557	-3.65E-05	
248	-0.000388	-3.23E-05	-8.09E-05
-3.70E-05	-0.000423	-2.96E-05	
249	-0.000388	-2.82E-05	-0.001302
-8.66E-05	-0.000350	-3.05E-05	
250	-0.000387	-3.34E-05	-0.003434
-0.000115	-0.000319	-3.37E-05	
251	-0.000387	-3.54E-05	-0.005573
-0.000114	-0.000295	-3.51E-05	
252	-0.000387	-3.51E-05	-0.007372
-0.000102	-0.000298	-3.51E-05	
253	-0.000386	-4.19E-05	-0.008389
-8.56E-05	-0.000297	-3.75E-05	
254	-0.000386	-5.11E-05	-0.008409
-9.14E-05	-0.000405	-4.23E-05	
255	-0.000386	-5.78E-05	-0.007426
-0.000104	-0.000538	-4.71E-05	
256	-0.000385	-6.05E-05	-0.005644
-0.000112	-0.000629	-5.26E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000385	-5.91E-05	-0.003498
-0.000109	-0.000647	-5.50E-05	
258	-0.000385	-5.58E-05	-0.001336
-7.91E-05	-0.000571	-4.64E-05	
259	-0.000385	-4.61E-05	-9.09E-05
-5.59E-05	-0.000451	-3.84E-05	
260	-0.000385	-3.48E-05	-0.002133
-0.000115	-0.000405	-3.98E-05	
261	-0.000384	-3.00E-05	-0.004550
-0.000124	-0.000313	-3.58E-05	
262	-0.000384	-3.02E-05	-0.006883
-0.000115	-0.000246	-3.34E-05	
263	-0.000384	-3.03E-05	-0.008780
-9.92E-05	-0.000204	-3.26E-05	
264	-0.000384	-2.92E-05	-0.009877
-8.29E-05	-0.000281	-3.42E-05	
265	-0.000423	-2.68E-05	-0.009958
-6.84E-05	-0.000423	-3.83E-05	
266	-0.000383	-2.36E-05	-0.008964
-5.66E-05	-0.000579	-4.32E-05	
267	-0.000383	-2.21E-05	-0.006988
-5.83E-05	-0.000721	-5.61E-05	
268	-0.000383	-2.80E-05	-0.004259
-5.59E-05	-0.000821	-6.90E-05	
269	-0.000383	-4.05E-05	-0.000991
-8.06E-05	-0.000768	-5.04E-05	
270	-0.000383	-4.50E-05	-0.000119
-0.000163	-0.000680	-5.79E-05	
271	-0.000195	-3.39E-06	.000000
-1.87E-05	-0.000139	-1.04E-05	
272	-0.000484	-1.99E-05	.000000
-1.63E-05	-0.000184	-4.24E-06	
273	.000000	.000000	.000000
-1.34E-05	-0.000208	-4.22E-06	
274	-0.000363	-1.84E-06	.000000
-9.75E-06	-0.000217	-4.11E-06	
275	-0.000295	-6.86E-06	.000000
-1.95E-05	-0.000231	-4.32E-06	
276	-0.000282	-2.78E-06	.000000
-1.10E-05	-0.000378	-8.21E-07	
277	-0.000394	-2.31E-05	.000000
-1.61E-05	-0.000157	-1.88E-06	
278	-0.000638	-2.52E-05	.000000
-1.78E-05	-0.000266	-9.59E-07	
279	.000000	.000000	.000000
-9.06E-06	-0.000287	-9.97E-07	
280	-0.000469	-2.39E-06	.000000
-5.59E-06	-0.000298	-1.35E-06	
281	-0.000372	-8.34E-06	.000000
-4.52E-06	-0.000312	-1.04E-06	
282	-0.000360	-1.74E-05	.000000
-2.05E-07	-0.000578	-4.18E-06	
283	-0.000618	-4.99E-05	.000000
-0.000100	-0.000163	-1.75E-06	
284	-0.000787	-4.92E-21	.000000
-0.000107	-0.000334	-5.64E-06	
285	-2.14E-06	-7.24E-05	.000000
-4.91E-05	-0.000369	-5.62E-06	
286	-0.000556	-0.000177	.000000
-4.15E-06	-0.000379	-6.08E-06	
287	-0.000460	-0.000126	.000000
-9.86E-06	-0.000397	-5.93E-06	
288	-0.000427	-0.000149	.000000
-4.90E-21	-0.000798	-1.12E-05	

COMB DB-G3-3 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000403	2.27E-05	3.65E-08
4.37E-05	0.000432	2.83E-06	
2	0.000402	2.43E-05	0.000887
0.000139	0.000414	2.25E-06	
3	0.000402	2.87E-05	0.001790
0.000236	0.000342	1.56E-06	
4	0.000402	3.08E-05	0.002535
0.000300	0.000229	1.40E-06	
5	0.000402	3.11E-05	0.003044
0.000330	9.60E-05	1.69E-06	
6	0.000401	3.20E-05	0.003239
0.000327	2.60E-06	3.07E-06	
7	0.000401	3.19E-05	0.003052
0.000290	7.47E-05	4.26E-06	
8	0.000401	2.82E-05	0.002447
0.000221	0.000162	4.81E-06	
9	0.000401	2.38E-05	0.001411
0.000133	0.000247	5.04E-06	
10	0.000402	2.14E-05	4.60E-08
5.43E-05	0.000315	4.24E-06	
11	0.000402	1.79E-05	0.000964
5.96E-05	0.000351	3.76E-06	
12	0.000402	1.64E-05	0.002072
0.000152	0.000370	2.29E-06	
13	0.000402	1.69E-05	0.002811
0.000239	0.000339	1.17E-06	
14	0.000402	1.68E-05	0.003180
0.000305	0.000254	1.20E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
15	0.000401	1.63E-05	0.003210
0.000345	0.000132	1.63E-06	
16	0.000401	1.95E-05	0.003517
0.000352	8.40E-05	2.98E-06	
17	0.000401	2.15E-05	0.003527
0.000327	0.000119	4.32E-06	
18	0.000400	2.07E-05	0.003130
0.000268	0.000135	5.13E-06	
19	0.000400	1.56E-05	0.002317
0.000185	0.000205	5.37E-06	
20	0.000400	7.05E-06	0.001084
9.14E-05	0.000286	5.02E-06	
21	0.000401	8.40E-06	4.61E-08
3.82E-05	0.000333	4.02E-06	
22	0.000401	8.41E-06	0.001059
7.37E-05	0.000367	3.57E-06	
23	0.000402	1.45E-05	0.002275
0.000168	0.000382	2.14E-06	
24	0.000403	1.91E-05	0.003095
0.000255	0.000347	1.12E-06	
25	0.000403	2.09E-05	0.003516
0.000321	0.000257	1.19E-06	
26	0.000404	2.10E-05	0.003525
0.000356	0.000124	1.74E-06	
27	0.000404	2.18E-05	0.003683
0.000357	9.54E-05	3.03E-06	
28	0.000403	2.36E-05	0.003679
0.000323	0.000134	4.41E-06	
29	0.000405	2.25E-05	0.003242
0.000258	0.000150	5.20E-06	
30	0.000406	1.71E-05	0.002387
0.000171	0.000215	5.39E-06	
31	0.000407	1.11E-05	0.001112
7.57E-05	0.000295	5.04E-06	
32	0.000407	9.15E-06	4.85E-08
3.73E-05	0.000340	4.36E-06	
33	0.000407	7.74E-06	0.001101
9.14E-05	0.000372	3.98E-06	
34	0.000408	1.60E-05	0.002369
0.000187	0.000383	2.53E-06	
35	0.000408	2.11E-05	0.003227
0.000272	0.000344	1.24E-06	
36	0.000409	2.30E-05	0.003673
0.000333	0.000249	1.41E-06	
37	0.000409	2.16E-05	0.003790
0.000361	0.000114	2.49E-06	
38	0.000409	1.86E-05	0.004196
0.000354	9.92E-05	3.83E-06	
39	0.000410	1.83E-05	0.004194
0.000313	0.000140	4.84E-06	
40	0.000410	1.88E-05	0.003700
0.000244	0.000159	5.43E-06	
41	0.000410	1.53E-05	0.002728
0.000156	0.000245	5.62E-06	
42	0.000411	1.23E-05	0.001274
6.27E-05	0.000336	5.23E-06	
43	0.000411	1.64E-05	4.77E-08
5.79E-05	0.000388	4.54E-06	
44	0.000411	2.29E-05	0.001632
0.000145	0.000433	4.16E-06	
45	0.000411	2.63E-05	0.002908
0.000245	0.000428	2.74E-06	
46	0.000411	2.57E-05	0.003761
0.000329	0.000364	1.76E-06	
47	0.000411	2.72E-05	0.004190
0.000383	0.000247	2.11E-06	
48	0.000412	2.77E-05	0.004215
0.000405	9.83E-05	3.31E-06	
49	0.000412	2.71E-05	0.003888
0.000396	9.91E-05	4.59E-06	
50	0.000412	2.73E-05	0.003273
0.000357	0.000150	5.69E-06	
51	0.000412	2.75E-05	0.002434
0.000289	0.000187	6.33E-06	
52	0.000412	2.75E-05	0.001437
0.000186	0.000212	6.72E-06	
53	0.000412	2.95E-05	0.000339
5.11E-05	0.000225	7.34E-06	
54	0.000412	3.31E-05	3.62E-08
3.15E-05	0.000226	7.36E-06	
55	0.000412	3.94E-05	2.61E-08
4.09E-05	0.000612	2.83E-06	
56	0.000482	3.98E-05	0.000944
0.000121	0.000579	2.44E-06	
57	0.000482	4.36E-05	0.001907
0.000239	0.000472	1.60E-06	
58	0.000482	4.64E-05	0.002710
0.000322	0.000321	9.74E-07	
59	0.000482	4.60E-05	0.003274
0.000358	0.000152	5.97E-07	
60	0.000482	4.17E-05	0.003518
0.000347	2.01E-05	6.08E-07	
61	0.000482	3.63E-05	0.003365
0.000295	6.86E-05	8.83E-07	
62	0.000482	3.33E-05	0.002760
0.000218	0.000166	1.49E-06	
63	0.000482	2.93E-05	0.001645
0.000126	0.000274	2.19E-06	
64	0.000483	2.45E-05	4.05E-08
4.49E-05	0.000386	1.79E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	0.000483	2.09E-05	0.001156
6.65E-05	0.000454	1.99E-06	
66	0.000484	1.52E-05	0.002385
0.000158	0.000495	2.13E-06	
67	0.000484	1.42E-05	0.003144
0.000252	0.000463	1.89E-06	
68	0.000485	1.67E-05	0.003488
0.000330	0.000361	1.63E-06	
69	0.000485	1.82E-05	0.003442
0.000376	0.000211	1.26E-06	
70	0.000485	1.79E-05	0.003767
0.000380	9.51E-05	1.03E-06	
71	0.000486	1.44E-05	0.003823
0.000342	0.000130	1.18E-06	
72	0.000486	8.16E-06	0.003450
0.000267	0.000145	1.25E-06	
73	0.000486	3.67E-06	0.002618
0.000173	0.000216	1.38E-06	
74	0.000486	4.87E-06	0.001268
7.90E-05	0.000326	1.93E-06	
75	0.000486	9.26E-06	4.20E-08
2.68E-05	0.000405	1.69E-06	
76	0.000485	1.28E-05	0.001243
6.85E-05	0.000471	2.04E-06	
77	0.000485	1.85E-05	0.002578
0.000165	0.000509	2.20E-06	
78	0.000485	2.66E-05	0.003418
0.000262	0.000476	2.02E-06	
79	0.000484	3.45E-05	0.003815
0.000342	0.000368	1.70E-06	
80	0.000484	3.99E-05	0.003777
0.000385	0.000207	1.27E-06	
81	0.000484	4.09E-05	0.003938
0.000386	0.000107	1.02E-06	
82	0.000484	3.75E-05	0.003982
0.000344	0.000146	1.19E-06	
83	0.000484	3.00E-05	0.003570
0.000265	0.000161	1.25E-06	
84	0.000484	2.11E-05	0.002693
0.000168	0.000228	1.43E-06	
85	0.000483	1.30E-05	0.001300
6.99E-05	0.000336	2.22E-06	
86	0.000483	8.86E-06	4.71E-08
2.42E-05	0.000413	2.18E-06	
87	0.000483	3.77E-06	0.001289
7.70E-05	0.000477	2.46E-06	
88	0.000483	4.45E-06	0.002676
0.000173	0.000511	2.72E-06	
89	0.000483	1.51E-05	0.003555
0.000272	0.000472	2.75E-06	
90	0.000483	2.67E-05	0.003976
0.000350	0.000361	2.65E-06	
91	0.000482	3.61E-05	0.003990
0.000390	0.000197	2.26E-06	
92	0.000482	4.08E-05	0.004452
0.000386	0.000112	1.66E-06	
93	0.000482	4.17E-05	0.004498
0.000338	0.000152	1.08E-06	
94	0.000483	3.94E-05	0.004030
0.000259	0.000168	8.80E-07	
95	0.000483	3.42E-05	0.003038
0.000163	0.000260	1.49E-06	
96	0.000483	2.88E-05	0.001464
7.04E-05	0.000379	2.67E-06	
97	0.000483	2.50E-05	3.67E-08
5.17E-05	0.000463	2.38E-06	
98	0.000483	1.75E-05	0.001869
0.000136	0.000549	2.42E-06	
99	0.000483	1.09E-05	0.003226
0.000238	0.000561	3.04E-06	
100	0.000483	1.21E-05	0.004084
0.000330	0.000495	3.52E-06	
101	0.000483	2.50E-05	0.004484
0.000400	0.000360	3.61E-06	
102	0.000483	3.79E-05	0.004467
0.000441	0.000186	3.25E-06	
103	0.000483	4.73E-05	0.004093
0.000441	0.000110	2.47E-06	
104	0.000483	5.19E-05	0.003431
0.000397	0.000161	1.64E-06	
105	0.000483	5.16E-05	0.002546
0.000310	0.000197	1.16E-06	
106	0.000483	5.03E-05	0.001502
0.000184	0.000223	1.46E-06	
107	0.000482	5.06E-05	0.000354
4.23E-05	0.000236	2.17E-06	
108	0.000482	5.15E-05	2.24E-08
4.19E-05	0.000236	2.27E-06	
109	0.000546	4.70E-05	3.41E-08
4.42E-05	0.000735	8.17E-06	
110	0.000546	6.52E-05	0.001003
0.000119	0.000684	7.67E-06	
111	0.000547	9.25E-05	0.002029
0.000406	0.000546

0.000319 0.000119 2.01E-06
136 0.000549 0.000121 0.004289
0.000289 0.000158 2.01E-06
137 0.000549 9.64E-05 0.003894
0.000230 0.000172 1.94E-06
138 0.000548 6.47E-05 0.002982
0.000152 0.000244 2.63E-06
139 0.000547 3.18E-05 0.001461
6.70E-05 0.000375 4.36E-06
140 0.000547 1.22E-05 5.95E-08
3.61E-05 0.000473 5.59E-06
141 0.000546 1.94E-05 0.001451
8.04E-05 0.000554 6.56E-06
142 0.000545 4.94E-05 0.002966
0.000166 0.000600 7.18E-06
143 0.000544 8.20E-05 0.003880
0.000244 0.000559 6.88E-06
144 0.000544 0.000110 0.004284
0.000300 0.000432 6.05E-06
145 0.000543 0.000126 0.004230
0.000324 0.000243 4.49E-06
146 0.000543 0.000130 0.004712
0.000316 0.000124 2.69E-06
147 0.000542 0.000119 0.004805
0.000278 0.000164 1.97E-06
148 0.000542 0.000101 0.004357
0.000216 0.000179 1.78E-06
149 0.000541 7.49E-05 0.003331
0.000139 0.000275 2.73E-06
150 0.000541 4.71E-05 0.001630
5.78E-05 0.000419 4.61E-06
151 0.000541 2.94E-05 5.11E-08
6.02E-05 0.000525 5.94E-06
152 0.000541 2.86E-05 0.002080
0.000132 0.000638 7.37E-06
153 0.000541 5.73E-05 0.003536
0.000220 0.000662 8.08E-06
154 0.000541 9.02E-05 0.004412
0.000298 0.000592 7.87E-06
155 0.000541 0.000119 0.004787
0.000351 0.000444 7.24E-06
156 0.000540 0.000138 0.004726
0.000373 0.000246 5.73E-06
157 0.000540 0.000146 0.004304
0.000363 0.000120 3.64E-06
158 0.000540 0.000141 0.003592
0.000326 0.000171 2.38E-06
159 0.000540 0.000127 0.002659
0.000258 0.000208 2.37E-06
160 0.000539 0.000100 0.001567
0.000163 0.000234 2.43E-06
161 0.000539 6.56E-05 0.000369
4.99E-05 0.000248 2.57E-06
162 0.000539 5.49E-05 2.71E-08
2.70E-05 0.000249 2.57E-06
163 0.000442 2.81E-05 3.86E-05
3.22E-05 0.000515 7.29E-05
164 0.000442 3.15E-05 0.000915
0.000138 0.000501 5.50E-05

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000442	3.70E-05	0.001844
0.000313	0.000420	4.97E-05	
166	0.000441	4.05E-05	0.002613
0.000403	0.000292	4.10E-05	
167	0.000441	4.01E-05	0.003145
0.000438	0.000141	3.36E-05	
168	0.000441	3.59E-05	0.003359
0.000430	2.26E-05	3.17E-05	
169	0.000441	3.24E-05	0.003184
0.000375	8.06E-05	2.97E-05	
170	0.000441	2.97E-05	0.002575
0.000278	0.000171	2.85E-05	
171	0.000441	2.62E-05	0.001501
0.000140	0.000263	3.22E-05	
172	0.000442	2.23E-05	1.69E-05
1.21E-05	0.000351	3.33E-05	
173	0.000442	1.90E-05	0.001034
5.08E-05	0.000408	3.57E-05	
174	0.000442	1.46E-05	0.002201
0.000193	0.000441	3.97E-05	
175	0.000442	1.36E-05	0.002953
0.000313	0.000413	3.72E-05	
176	0.000442	1.89E-05	0.003314
0.000403	0.000320	3.27E-05	
177	0.000443	2.20E-05	0.003301
0.000451	0.000185	2.64E-05	
178	0.000443	2.29E-05	0.003627
0.000459	9.93E-05	2.99E-05	
179	0.000442	1.99E-05	0.003654
0.000425	0.000133	3.64E-05	
180	0.000442	1.44E-05	0.003265
0.000345	0.000148	4.41E-05	
181	0.000442	1.12E-05	0.002439
0.000227	0.000207	5.29E-05	
182	0.000443	5.08E-06	0.001151
8.13E-05	0.000307	5.78E-05	
183	0.000443	5.09E-06	1.65E-05
5.46E-06	0.000371	5.89E-05	
184	0.000443	7.95E-06	0.001126
6.46E-05	0.000426	6.82E-05	
185	0.000444	1.50E-05	0.002399
0.000209	0.000454	7.45E-05	
186	0.000444	2.30E-05	0.003232
0.000332	0.000422	6.85E-05	
187	0.000444	3.08E-05	0.003645
0.000421	0.000322	5.53E-05	
188	0.000444	3.59E-05	0.003636
0.000464	0.000176	3.62E-05	
189	0.000443	3.70E-05	0.003795
0.000465	0.000111	2.01E-05	
190	0.000443	3.41E-05	0.003809
0.000423	0.000148	1.61E-05	
191	0.000444	2.74E-05	0.003380
0.000335	0.000164	1.59E-05	
192	0.000444	1.86E-05	0.002511
0.000213	0.000230	2.14E-05	
193	0.000444	1.07E-05	0.001179
6.79E-05	0.000319	2.91E-05	
194	0.000445	5.78E-06	1.66E-05
4.37E-06	0.000381	3.26E-05	
195	0.000445	4.99E-06	0.001170
8.08E-05	0.000433	4.05E-05	
196	0.000445	1.03E-05	0.002495
0.000228	0.000455	4.64E-05	
197	0.000445	1.96E-05	0.003365
0.000350	0.000417	4.28E-05	
198	0.000445	2.71E-05	0.003804
0.000434	0.000312	3.81E-05	
199	0.000445	3.18E-05	0.003880
0.000469	0.000164	3.28E-05	
200	0.000445	3.29E-05	0.004309
0.000461	0.000116	3.39E-05	
201	0.000446	3.22E-05	0.004325
0.000412	0.000154	3.58E-05	
202	0.000446	2.82E-05	0.003839
0.000319	0.000171	3.66E-05	
203	0.000446	2.21E-05	0.002855
0.000196	0.000263	3.85E-05	
204	0.000446	1.66E-05	0.001345
5.15E-05	0.000363	4.00E-05	
205	0.000446	1.77E-05	2.20E-05
1.47E-05	0.000435	4.38E-05	
206	0.000446	2.06E-05	0.001718
0.000147	0.000503	5.17E-05	
207	0.000447	1.99E-05	0.003036
0.000296	0.000503	5.16E-05	
208	0.000447	2.05E-05	0.003896
0.000409	0.000447	4.77E-05	
209	0.000447	2.94E-05	0.004316
0.000483	0.000309	3.88E-05	
210	0.000447	3.63E-05	0.004326
0.000515	0.000148	2.92E-05	
211	0.000447	4.04E-05	0.003981
0.000509	0.000115	2.53E-05	
212	0.000447	4.38E-05	0.003346
0.000465	0.000164	2.58E-05	
213	0.000447	4.36E-05	0.002489
0.000380	0.000199	2.69E-05	
214	0.000447	4.01E-05	0.001472
0.000234	0.000223	2.83E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000447	3.64E-05	0.000353
2.84E-05	0.000229	1.94E-05	
216	0.000447	3.40E-05	3.24E-05
3.34E-05	0.000229	2.38E-05	
217	0.000514	4.32E-05	7.46E-05
4.50E-05	0.000880	9.18E-05	
218	0.000514	4.25E-05	0.000973
0.000144	0.000775	6.92E-05	
219	0.000514	5.54E-05	0.001971
0.000303	0.000658	6.01E-05	
220	0.000514	6.86E-05	0.002809
0.000399	0.000492	5.05E-05	
221	0.000514	7.25E-05	0.003407
0.000434	0.000311	4.15E-05	
222	0.000514	6.80E-05	0.003681
0.000417	0.000169	4.01E-05	
223	0.000514	5.68E-05	0.003548
0.000358	0.000193	3.98E-05	
224	0.000515	4.16E-05	0.002937
0.000265	0.000281	4.05E-05	
225	0.000515	3.25E-05	0.001769
0.000148	0.000398	4.40E-05	
226	0.000516	2.71E-05	3.14E-05
5.26E-05	0.000487	4.41E-05	
227	0.000516	2.28E-05	0.001251
8.98E-05	0.000603	4.90E-05	
228	0.000517	2.37E-05	0.002556
0.000201	0.000676	5.56E-05	
229	0.000517	3.72E-05	0.003334
0.000304	0.000647	5.37E-05	
230	0.000518	5.26E-05	0.003664
0.000389	0.000536	4.90E-05	
231	0.000519	6.08E-05	0.003590
0.000439	0.000377	4.40E-05	
232	0.000519	5.98E-05	0.003909
0.000442	0.000242	4.09E-05	
233	0.000519	4.96E-05	0.003993
0.000403	0.000257	3.99E-05	
234	0.000520	3.39E-05	0.003635
0.000322	0.000261	4.18E-05	
235	0.000520	1.64E-05	0.002786
0.000215	0.000324	4.77E-05	
236	0.000519	3.22E-06	0.001365
9.47E-05	0.000402	5.43E-05	
237	0.000519	1.09E-05	3.04E-05
3.15E-05	0.000494	5.89E-05	
238	0.000519	2.22E-05	0.001339
8.77E-05	0.000620	7.33E-05	
239	0.000518	4.22E-05	0.002746
0.000202	0.000692	8.40E-05	
240	0.000517	6.38E-05	0.003604
0.000309	0.000664	7.94E-05	
241	0.000517	8.18E-05	0.003987
0.000396	0.000546	6.56E-05	
242	0.000516	9.19E-05	0.003920
0.000440	0.000376	4.69E-05	
243	0.000516	9.19E-05	0.004083
0.000441	0.000251	3.80E-05	
244	0.000516	8.18E-05	0.004156
0.000398	0.000268	3.46E-05	
245	0.000516	6.36E-05	0.003759
0.000312	0.000272	3.31E-05	
246	0.000515	4.14E-05	0.002865
0.000204	0.000335	3.30E-05	
247	0.000515	2.06E-05	0.001398
8.91E-05	0.000413	3.34E-05	
248	0.000514	8.95E-06	3.09E-05
2.97E-05	0.000503	3.93E-05	
249	0.000514	6.41E-06	0.001386
9.48E-05	0.000628	5.19E-05	
250	0.000513	2.23E-05	0.002847
0.000216	0.000696	6.12E-05	
251	0.000513	4.79E-05	0.003744
0.000326	0.000663	5.79E-05	
252	0.000513	7.16E-05	0.004151
0.000411	0.000541	5.04E-05	
253	0.000512	8.83E-05	0.004114
0.000451	0.000369	4.27E-05	
254	0.000512	9.49E-05	0.004597
0.000447	0.000254	3.83E-05	
255	0.000512	9.06E-05	0.004673
0.000397	0.000272	3.73E-05	
256	0.000512	7.69E-05	0.004220
0.000309	0.000278	3.88E-05	
257	0.000512	5.74E-05	0.003212
0.000203	0.000368	4.44E-05	
258	0.000512	3.76E-05	0.001564
9.08E-05	0.000469	4.54E-05	
259	0.000512	2.60E-05	3.52E-05
5.23E-05	0.000596	5.20E-05	
260	0.000512	1.77E-05	0.001998
0.000150	0.000726	6.83E-05	
261	0.000512	2.42E-05	0.003410
0.000276	0.000752	7.10E-05	
262	0.000512	4.37E-05	0.004274
0.000384	0.000688	6.50E-05	
263	0.000512	7.00E-05	0.004655
0.000465	0.000546	5.14E-05	
264	0.000512	9.28E-05	0.004610
0.000510	0.000363	4.09E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000511	0.000106	0.004208
0.000514	0.000250	3.40E-05	
266	0.000511	0.000107	0.003516
0.000471	0.000275	3.34E-05	
267	0.000511	9.68E-05	0.002603
0.000377	0.000297	3.40E-05	
268	0.000511	7.79E-05	0.001532
0.000238	0.000307	3.48E-05	
269	0.000510	5.77E-05	0.000355
3.13E-05	0.000242	2.28E-05	
270	0.000510	5.02E-05	6.88E-05
3.87E-05	0.000242	2.80E-05	
271	0.000332	5.84E-06	.000000
5.60E-05	0.000431	2.83E-06	
272	0.000536	4.11E-05	.000000
5.62E-05	0.000312	4.24E-06	
273	.000000	.000000	.000000
3.95E-05	0.000331	4.02E-06	
274	0.000780	1.96E-06	.000000
3.97E-05	0.000340	4.36E-06	
275	0.000319	1.43E-05	.000000
8.40E-05	0.000383	4.54E-06	
276	0.000738	7.27E-06	.000000
2.98E-05	0.000226	7.36E-06	
277	0.000408	4.40E-05	.000000
7.89E-05	0.000608	2.83E-06	
278	0.000622	4.86E-05	.000000
4.80E-05	0.000284	1.79E-06	
279	.000000	.000000	.000000
2.90E-05	0.000404	1.69E-06	
280	0.000916	2.30E-06	.000000
2.69E-05	0.000413	2.18E-06	
281	0.000404	9.06E-06	.000000
3.19E-05	0.000465	2.38E-06	
282	0.000923	4.45E-05	.000000
2.18E-05	0.000239	2.27E-06	
283	0.000482	5.12E-05	.000000
0.000187	0.000710	8.17E-06	
284	0.000693	2.64E-05	.000000
0.000129	0.000420	5.13E-06	
285	1.20E-06	4.07E-05	.000000
4.28E-05	0.000462	5.23E-06	
286	0.000994	0.000243	.000000
5.11E-06	0.000472	5.59E-06	
287	0.000464	0.000106	.000000
1.24E-21	0.000526	5.94E-06	
288	0.000170	0.000194	.000000
3.58E-05	0.000253	2.57E-06	

COMB DB-G3-3 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000399	-5.27E-05	-4.00E-08
-1.98E-05	-0.000199	-7.35E-06	
2	-0.000395	-7.29E-05	-0.001869
-1.59E-05	-0.000192	-6.52E-06	
3	-0.000395	-9.85E-05	-0.003665
-2.34E-05	-0.000168	-4.73E-06	
4	-0.000395	-0.000116	-0.004943
-3.40E-05	-0.000130	-3.88E-06	
5	-0.000395	-0.000122	-0.005527
-4.35E-05	-7.59E-05	-2.66E-06	
6	-0.000395	-0.000117	-0.005352
-5.15E-05	-9.45E-05	-1.44E-06	
7	-0.000395	-0.000102	-0.004487
-5.90E-05	-0.000211	-1.11E-06	
8	-0.000394	-8.09E-05	-0.003136
-5.77E-05	-0.000288	-2.00E-06	
9	-0.000394	-5.90E-05	-0.001553
-3.88E-05	-0.000313	-3.48E-06	
10	-0.000393	-4.49E-05	-6.05E-08
-9.60E-06	-0.000291	-4.05E-06	
11	-0.000391	-5.49E-05	-0.001158
-1.14E-05	0.000255	-5.05E-06	
12	-0.000391	-7.39E-05	-0.002937
-3.57E-05	-0.000188	-5.34E-06	
13	-0.000390	-9.50E-05	-0.004650
-4.93E-05	-0.000151	-5.08E-06	
14	-0.000388	-0.000112	-0.006033
-5.25E-05	-0.000135	-4.29E-06	
15	-0.000387	-0.000121	-0.006804
-4.93E-05	-9.78E-05	-2.95E-06	
16	-0.000386	-0.000119	-0.006818
-4.71E-05	-9.70E-05	-1.67E-06	
17	-0.000386	-0.000108	-0.006072
-5.51E-05	-0.000221	-1.19E-06	
18	-0.000387	-9.31E-05	-0.004703
-5.76E-05	-0.000313	-1.03E-06	
19	-0.000387	-7.39E-05	-0.002987
-4.90E-05	-0.000356	-2.10E-06	
20	-0.000387	-5.59E-05	-0.001186
-2.24E-05	-0.000351	-3.53E-06	
21	-0.000387	-4.58E-05	-6.06E-08
-7.01E-06	-0.000323	-4.29E-06	
22	-0.000388	-4.72E-05	-0.001223
-1.50E-05	-0.000281	-5.10E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	-0.000389	-6.75E-05	-0.003096
-4.14E-05	-0.000206	-5.48E-06	
24	-0.000390	-8.90E-05	-0.004907
-5.31E-05	-0.000157	-5.26E-06	
25	-0.000391	-0.000106	-0.006382
-5.39E-05	-0.000141	-4.44E-06	
26	-0.000391	-0.000115	-0.007204
-4.84E-05	-0.000101	-3.05E-06	
27	-0.000392	-0.000116	-0.007211
-4.94E-05	-0.000119	-1.61E-06	
28	-0.000392	-0.000108	-0.006401
-5.53E-05	-0.000253	-1.19E-06	
29	-0.000393	-9.01E-05	-0.004931
-5.48E-05	-0.000345	-1.08E-06	
30	-0.000393	-6.81E-05	-0.003119
-4.30E-05	-0.000382	-2.13E-06	
31	-0.000394	-4.70E-05	-0.001235
-1.56E-05	-0.000370	-3.55E-06	
32	-0.000394	-4.66E-05	-5.98E-08
-7.04E-06	-0.000337	-4.32E-06	
33	-0.000394	-5.55E-05	-0.001251
-2.25E-05	-0.000292	-5.44E-06	
34	-0.000395	-7.14E-05	-0.003169
-4.98E-05	-0.000213	-5.72E-06	
35	-0.000395	-8.94E-05	-0.005022
-5.91E-05	-0.000178	-5.36E-06	
36	-0.000395	-0.000111	-0.006537
-5.69E-05	-0.000159	-4.47E-06	
37	-0.000396	-0.000124	-0.007390
-4.89E-05	-0.000113	-3.09E-06	
38	-0.000396	-0.000139	-0.007414
-5.19E-05	0.000133	-1.85E-06	
39	-0.000396	-0.000115	-0.006602
-5.51E-05	-0.000270	-1.39E-06	
40	-0.000397	-9.72E-05	-0.005107
-5.16E-05	-0.000364	-1.35E-06	
41	-0.000397	-7.58E-05	-0.003249
-3.71E-05	-0.000401	-2.61E-06	
42	-0.000398	-7.21E-05	-0.001297
-1.31E-05	-0.000389	-3.76E-06	
43	-0.000398	-8.29E-05	-7.35E-08
-8.52E-06	-0.000357	-4.20E-06	
44	-0.000398	-9.28E-05	-0.002093
-3.97E-05	-0.000293	-5.08E-06	
45	-0.000399	-0.000104	-0.004323
-6.09E-05	-0.000211	-5.03E-06	
46	-0.000398	-0.000117	-0.006407
-6.44E-05	-0.000124	-4.67E-06	
47	-0.000398	-0.000125	-0.008044
-5.88E-05	-4.08E-05	-3.97E-06	
48	-0.000398	-0.000130	-0.008957
-5.08E-05	-2.49E-05	-2.78E-06	
49	-0.000398	-0.000129	-0.008976
-4.25E-05	-0.000161	-1.59E-06	
50	-0.000398	-0.000117	-0.008058
-3.28E-05	-0.000323	-1.29E-06	
51	-0.000398	-9.65E-05	-0.006281
-2.26E-05	-0.000464	-1.29E-06	
52	-0.000398	-6.93E-05	-0.003826
-1.57E-05	-0.000568	-1.73E-06	
53	-0.000398	-4.11E-05	-0.000913
-3.05E-05	-0.000615	-2.44E-06	
54	-0.000398	-3.48E-05	-4.32E-08
-3.50E-05	-0.000615	-2.56E-06	
55	-0.000398	-6.13E-05	-3.63E-07
-5.58E-05	-0.000213	-1.83E-06	
56	-0.000471	-5.31E-05	-0.002666
-4.18E-05	-0.000206	-1.53E-06	
57	-0.000471	-4.83E-05	-0.005193
-5.51E-05	-0.000182	-9.86E-07	
58	-0.000470	-4.68E-05	-0.006968
-6.68E-05	-0.000144	-7.86E-07	
59	-0.000470	-4.64E-05	-0.007742
-7.50E-05	-9.31E-05	-1.30E-06	
60	-0.000471	-4.63E-05	-0.007439
-8.00E-05	-0.000187	-1.80E-06	
61	-0.000471	-4.50E-05	-0.006159
-8.14E-05	-0.000329	-2.13E-06	
62	-0.000471	-4.22E-05	-0.004225
-7.84E-05	-0.000417	-2.43E-06	
63	-0.000472	-3.79E-05	-0.002034
-6.21E-05	-0.000431	-2.46E-06	
64	-0.000473	-3.32E-05	-4.62E-07
-2.39E-05	-0.000367	-1.84E-06	
65	-0.000473	-3.20E-05	-0.001463
-3.89E-05	-0.000299	-1.86E-06	
66	-0.000473	-3.30E-05	-0.003813
-7.87E-05	-0.000202	-1.26E-06	
67	-0.000474	-3.25E-05	-0.006136
-9.57E-05	-0.000161	-1.29E-06	
68	-0.000474	-3.10E-05	-0.008039
-9.61E-05	-0.000147	-1.21E-06	
69	-0.000475	-2.87E-05	-0.009101
-8.59E-05	-0.000110	-1.05E-06	
70	-0.000475	-2.59E-05	-0.009116
-7.82E-05	-0.000177	-1.19E-06	
71	-0.000475	-2.42E-05	-0.008080
-8.31E-05	-0.000329	-1.57E-06	
72	-0.000475	-2.31E-05	-0.006190
-8.15E-05	-0.000439	-1.79E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	-0.000475	-2.34E-05	-0.003862
-6.95E-05	-0.000483	-2.11E-06	
74	-0.000475	-2.72E-05	-0.001489
-4.00E-05	-0.000456	-2.08E-06	
75	-0.000475	-3.22E-05	-4.61E-07
-7.73E-06	-0.000395	-1.70E-06	
76	-0.000474	-3.58E-05	-0.001526
-3.47E-05	-0.000322	-1.88E-06	
77	-0.000474	-3.90E-05	-0.003972
-7.20E-05	-0.000219	-1.39E-06	
78	-0.000474	-3.98E-05	-0.006404
-8.76E-05	-0.000168	-1.42E-06	
79	-0.000474	-3.86E-05	-0.008422
-8.92E-05	-0.000153	-1.33E-06	
80	-0.000474	-3.56E-05	-0.009549
-8.15E-05	-0.000113	-1.12E-06	
81	-0.000473	-3.89E-05	-0.009558
-8.23E-05	-0.000202	-1.23E-06	
82	-0.000473	-4.19E-05	-0.008446
-9.01E-05	-0.000364	-1.65E-06	
83	-0.000473	-4.26E-05	-0.006435
-8.85E-05	-0.000474	-1.89E-06	
84	-0.000473	-4.08E-05	-0.004001
-7.28E-05	-0.000510	-2.53E-06	
85	-0.000473	-3.60E-05	-0.001541
-3.54E-05	-0.000474	-2.42E-06	
86	-0.000473	-3.10E-05	-4.62E-07
-4.97E-06	-0.000410	-2.16E-06	
87	-0.000473	-2.43E-05	-0.001557
-3.89E-05	-0.000333	-2.39E-06	
88	-0.000472	-2.30E-05	-0.004047
-7.00E-05	-0.000225	-2.25E-06	
89	-0.000472	-2.73E-05	-0.006521
-8.35E-05	-0.000189	-2.35E-06	
90	-0.000472	-3.65E-05	-0.008579
-8.56E-05	-0.000171	-2.29E-06	
91	-0.000472	-4.58E-05	-0.009739
-8.05E-05	-0.000125	-2.30E-06	
92	-0.000472	-5.49E-05	-0.009766
-8.97E-05	-0.000216	-1.65E-06	
93	-0.000472	-6.16E-05	-0.008652
-0.000100	-0.000381	-1.20E-06	
94	-0.000472	-6.47E-05	-0.006617
-0.000100	-0.000492	-1.45E-06	
95	-0.000472	-6.36E-05	-0.004135
-8.18E-05	-0.000528	-1.89E-06	
96	-0.000472	-5.79E-05	-0.001604
-4.04E-05	-0.000492	-1.96E-06	
97	-0.000472	-5.17E-05	-4.70E-07
-2.75E-05	-0.000429	-1.79E-06	
98	-0.000472	-4.17E-05	-0.002562
-6.64E-05	-0.000321	-2.06E-06	
99	-0.000472	-2.95E-05	-0.005403
-8.40E-05	-0.000217	-1.60E-06	
100	-0.000472	-2.36E-05	-0.008124
-8.66E-05	-0.000119	-1.27E-06	
101	-0.000472	-2.07E-05	-0.010303
-8.68E-05	-3.16E-05	-1.08E-06	
102	-0.000472	-1.96E-05	-0.011550
-8.49E-05	-6.63E-05	-9.00E-07	
103	-0.000472	-2.04E-05	-0.011619
-8.14E-05	-0.000232	-6.97E-07	
104	-0.000471	-2.07E-05	-0.010450
-7.58E-05	-0.000424	-5.40E-07	
105	-0.000471	-2.25E-05	-0.008155
-6.70E-05	-0.000597	-9.00E-07	
106	-0.000471	-2.53E-05	-0.004982
-5.66E-05	-0.000730	-1.91E-06	
107	-0.000471	-3.06E-05	-0.001196
-6.39E-05	-0.000799	-2.84E-06	
108	-0.000471	-3.27E-05	-3.67E-07
-8.58E-05	-0.000802	-2.97E-06	
109	-0.000534	-6.75E-05	-3.34E-07
-0.000123	-0.000228	-2.78E-06	
110	-0.000534	-6.36E-05	-0.003182
-0.000159	-0.000220	-2.63E-06	
111	-0.000534	-6.08E-05	-0.006182
-0.000195	-0.000195	-2.50E-06	
112	-0.000534	-6.12E-05	-0.008261
-0.000208	-0.000155	-2.19E-06	
113	-0.000534	-6.45E-05	-0.009144
-0.000207	-9.87E-05	-2.49E-06	
114	-0.000534	-6.60E-05	-0.008753
-0.000198	-0.000248	-4.17E-06	
115	-0.000535	-6.40E-05	-0.007227
-0.000180	-0.000410	-5.54E-06	
116	-0.000536	-5.90E-05	-0.004939
-0.000144	-0.000507	-6.29E-06	
117	-0.000537	-4.90E-05	-0.002363
-8.83E-05	-0.000512	-6.21E-06	
118	-0.000538	-3.74E-05	-4.17E-07
-5.77E-05	-0.000426	-5.17E-06	
119	-0.000539	-3.37E-05	-0.001686
-8.43E-05	-0.000337	-4.05E-06	
120	-0.000541	-4.66E-05	-0.004424
-0.000149	-0.000217	-2.49E-06	
121	-0.000543	-5.23E-05	-0.007139
-0.000194	-0.000172	-1.97E-06	
122	-0.000544	-5.21E-05	-0.009358
-0.000214	-0.000158	-2.01E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000545	-4.87E-05	-0.010589

139	-0.000536	-4.09E-05	-0.001768
-7.56E-05	-0.000550	-6.60E-06	
140	-0.000536	-2.81E-05	-4.18E-07
-4.77E-05	-0.000469	-5.84E-06	
141	-0.000536	-3.15E-05	-0.001784
-7.19E-05	-0.000373	-4.83E-06	
142	-0.000535	-4.49E-05	-0.004669
-0.000137	-0.000242	-3.41E-06	
143	-0.000534	-5.04E-05	-0.007545
-0.000181	-0.000200	-2.98E-06	
144	-0.000534	-5.19E-05	-0.009930
-0.000204	-0.000183	-3.06E-06	
145	-0.000533	-5.95E-05	-0.011268
-0.000212	-0.000137	-2.80E-06	
146	-0.000533	-7.19E-05	-0.011294
-0.000220	-0.000249	-3.40E-06	
147	-0.000532	-8.03E-05	-0.010002
-0.000218	-0.000439	-4.69E-06	
148	-0.000532	-8.23E-05	-0.007638
-0.000196	-0.000568	-5.71E-06	
149	-0.000531	-7.69E-05	-0.004754
-0.000149	-0.000611	-6.28E-06	
150	-0.000531	-6.34E-05	-0.001830
-8.38E-05	-0.000567	-5.86E-06	
151	-0.000531	-5.05E-05	-4.33E-07
-5.71E-05	-0.000488	-5.71E-06	
152	-0.000530	-4.92E-05	-0.002918
-8.95E-05	-0.000355	-3.87E-06	
153	-0.000530	-5.11E-05	-0.006195
-0.000147	-0.000231	-2.58E-06	
154	-0.000530	-5.40E-05	-0.009341
-0.000183	-0.000121	-1.49E-06	
155	-0.000529	-5.06E-05	-0.011863
-0.000202	-2.70E-05	-8.36E-07	
156	-0.000529	-4.28E-05	-0.013315
-0.000212	-7.69E-05	-1.20E-06	
157	-0.000529	-3.33E-05	-0.013428
-0.000217	-0.000253	-2.48E-06	
158	-0.000529	-3.02E-05	-0.012123
-0.000217	-0.000470	-4.24E-06	
159	-0.000528	-2.95E-05	-0.009502
-0.000208	-0.000675	-6.26E-06	
160	-0.000528	-3.34E-05	-0.005829
-0.000178	-0.000844	-8.21E-06	
161	-0.000528	-3.86E-05	-0.001402
-0.000128	-0.000942	-9.81E-06	
162	-0.000528	-4.02E-05	-3.39E-07
-0.000116	-0.000948	-9.38E-06	
163	-0.000433	-4.11E-05	-7.30E-05
-0.000158	-0.000205	-4.90E-05	
164	-0.000433	-5.69E-05	-0.002309
-2.57E-05	-0.000206	-3.97E-05	
165	-0.000432	-7.19E-05	-0.004452
-2.55E-05	-0.000183	-3.97E-05	
166	-0.000432	-8.08E-05	-0.005966
-4.17E-05	-0.000146	-3.75E-05	
167	-0.000432	-8.27E-05	-0.006637
-5.70E-05	-9.34E-05	-3.47E-05	
168	-0.000432	-7.95E-05	-0.006399
-7.09E-05	-3.30E-05	-3.40E-05	
169	-0.000433	-7.09E-05	-0.005332
-8.67E-05	-0.000275	-3.71E-05	
170	-0.000433	-5.83E-05	-0.003694
-0.000104	-0.000360	-3.94E-05	
171	-0.000433	-4.32E-05	-0.001813
-0.000107	-0.000383	-3.93E-05	
172	-0.000432	-3.28E-05	-2.84E-05
-6.19E-05	-0.000340	-3.11E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	-0.000432	-4.06E-05	-0.001331
-6.09E-05	-0.000284	-2.55E-05	
174	-0.000431	-5.45E-05	-0.003391
-8.21E-05	-0.000206	-2.04E-05	
175	-0.000431	-6.70E-05	-0.005404
-7.98E-05	-0.000164	-1.60E-05	
176	-0.000430	-7.66E-05	-0.007039
-7.30E-05	-0.000149	-1.70E-05	
177	-0.000430	-8.09E-05	-0.007953
-6.41E-05	-0.000114	-2.11E-05	
178	-0.000430	-7.89E-05	-0.007968
-6.19E-05	-0.000145	-3.52E-05	
179	-0.000430	-7.08E-05	-0.007079
-7.43E-05	-0.000281	-5.31E-05	
180	-0.000431	-5.92E-05	-0.005457
-8.83E-05	-0.000385	-6.62E-05	
181	-0.000431	-4.64E-05	-0.003440
-9.80E-05	-0.000428	-7.28E-05	
182	-0.000431	-3.70E-05	-0.001358
-8.44E-05	-0.000412	-6.72E-05	
183	-0.000431	-3.43E-05	-2.67E-05
-4.23E-05	-0.000364	-5.82E-05	
184	-0.000431	-3.35E-05	-0.001394
-6.96E-05	-0.000305	-5.72E-05	
185	-0.000431	-4.71E-05	-0.003550
-8.82E-05	-0.000221	-5.26E-05	
186	-0.000431	-6.01E-05	-0.005666
-8.30E-05	-0.000170	-4.40E-05	
187	-0.000432	-6.85E-05	-0.007404
-7.28E-05	-0.000155	-3.61E-05	
188	-0.000432	-7.20E-05	-0.008377
-6.25E-05	-0.000117	-2.92E-05	
189	-0.000432	-7.39E-05	-0.008384
-6.38E-05	-0.000171	-2.60E-05	
190	-0.000432	-7.05E-05	-0.007425
-7.49E-05	-0.000318	-3.26E-05	
191	-0.000432	-6.18E-05	-0.005693
-8.56E-05	-0.000420	-3.73E-05	
192	-0.000433	-4.90E-05	-0.003574
-9.15E-05	-0.000455	-4.00E-05	
193	-0.000433	-3.42E-05	-0.001407
-7.30E-05	-0.000430	-3.60E-05	
194	-0.000433	-3.40E-05	-2.77E-05
-3.98E-05	-0.000376	-3.05E-05	
195	-0.000433	-3.52E-05	-0.001425
-8.37E-05	-0.000314	-3.02E-05	
196	-0.000433	-4.67E-05	-0.003624
-9.88E-05	-0.000226	-2.88E-05	
197	-0.000433	-5.99E-05	-0.005782
-8.98E-05	-0.000191	-2.93E-05	
198	-0.000433	-7.32E-05	-0.007561
-7.61E-05	-0.000173	-2.98E-05	
199	-0.000433	-8.08E-05	-0.008566
-6.37E-05	-0.000128	-3.00E-05	
200	-0.000434	-8.20E-05	-0.008591
-6.74E-05	-0.000188	-3.47E-05	
201	-0.000434	-7.87E-05	-0.007630
-7.68E-05	-0.000337	-4.32E-05	
202	-0.000435	-6.98E-05	-0.005875
-8.35E-05	-0.000439	-5.00E-05	
203	-0.000434	-5.85E-05	-0.003711
-8.54E-05	-0.000472	-5.40E-05	
204	-0.000435	-6.05E-05	-0.001476
-6.33E-05	-0.000446	-4.74E-05	
205	-0.000435	-6.17E-05	-3.44E-05
-6.31E-05	-0.000393	-4.26E-05	
206	-0.000435	-6.20E-05	-0.002345
-0.000110	-0.000311	-3.96E-05	
207	-0.000435	-6.30E-05	-0.004877
-0.000108	-0.000220	-3.39E-05	
208	-0.000435	-6.78E-05	-0.007274
-9.25E-05	-0.000130	-2.87E-05	
209	-0.000435	-7.56E-05	-0.009177
-7.75E-05	-4.63E-05	-2.77E-05	
210	-0.000435	-7.82E-05	-0.010252
-6.57E-05	-5.91E-05	-2.71E-05	
211	-0.000435	-7.56E-05	-0.010296
-5.27E-05	-0.000213	-3.27E-05	
212	-0.000435	-6.99E-05	-0.009257
-3.93E-05	-0.000389	-4.45E-05	
213	-0.000435	-5.96E-05	-0.007232
-3.25E-05	-0.000543	-6.19E-05	
214	-0.000435	-4.44E-05	-0.004434
-3.27E-05	-0.000656	-7.74E-05	
215	-0.000435	-2.56E-05	-0.001106
-7.73E-05	-0.000700	-5.66E-05	
216	-0.000435	-2.40E-05	-6.77E-05
-0.000164	-0.000691	-7.01E-05	
217	-0.000502	-6.14E-05	-0.000142
-0.000158	-0.000234	-5.01E-05	
218	-0.000502	-5.55E-05	-0.002988
-0.000125	-0.000323	-4.27E-05	
219	-0.000502	-5.22E-05	-0.005827
-0.000189	-0.000292	-4.11E-05	
220	-0.000502	-5.37E-05	-0.007826
-0.000203	-0.000269	-4.10E-05	
221	-0.000502	-5.57E-05	-0.008684
-0.000209	-0.000242	-4.14E-05	
222	-0.000502	-5.64E-05	-0.008324
-0.000211	-0.000368	-4.45E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	-0.000502	-5.51E-05	-0.006865
-0.000204	-0.000517	-5.07E-05	
224	-0.000503	-5.07E-05	-0.004684
-0.000184	-0.000607	-5.36E-05	
225	-0.000504	-4.59E-05	-0.002245
-0.000132	-0.000610	-5.35E-05	
226	-0.000505	-3.38E-05	-7.88E-05
-5.31E-05	-0.000505	-4.05E-05	
227	-0.000505	-3.10E-05	-0.001603
-0.000100	-0.000385	-3.30E-05	
228	-0.000506	-3.91E-05	-0.004195
-0.000180	-0.000317	-3.53E-05	
229	-0.000508	-4.16E-05	-0.006775
-0.000215	-0.000273	-3.49E-05	
230	-0.000509	-4.02E-05	-0.008899
-0.000227	-0.000269	-3.62E-05	
231	-0.000510	-3.58E-05	-0.010091
-0.000222	-0.000252	-3.93E-05	
232	-0.000510	-2.96E-05	-0.010105
-0.000214	-0.000348	-4.68E-05	
233	-0.000510	-2.48E-05	-0.008939
-0.000216	-0.000509	-6.32E-05	
234	-0.000510	-2.37E-05	-0.006827
-0.000205	-0.000628	-7.70E-05	
235	-0.000509	-2.11E-05	-0.004243
-0.000172	-0.000668	-8.22E-05	
236	-0.000508	-1.99E-05	-0.001628
-9.77E-05	-0.000606	-7.21E-05	
237	-0.000508	-3.00E-05	-7.07E-05
-3.39E-05	-0.000486	-5.81E-05	
238	-0.000507	-3.90E-05	-0.001664
-9.41E-05	-0.000400	-4.36E-05	
239	-0.000507	-4.71E-05	-0.004356
-0.000174	-0.000327	-4.82E-05	
240	-0.000506	-5.00E-05	-0.007050
-0.000211	-0.000279	-4.25E-05	
241	-0.000506	-4.86E-05	-0.009298
-0.000224	-0.000274	-4.10E-05	
242	-0.000506	-4.42E-05	-0.010562
-0.000220	-0.000256	-3.99E-05	
243	-0.000506	-4.73E-05	-0.010571
-0.000221	-0.000372	-4.31E-05	
244	-0.000505	-5.15E-05	-0.009323
-0.000225	-0.000543	-4.87E-05	
245	-0.000505	-4.23E-05	-0.007084
-0.000212	-0.000662	-5.36E-05	
246	-0.000505	-4.83E-05	-0.004388
-0.000176	-0.000694	-5.53E-05	
247	-0.000504	-3.85E-05	-0.001682
-9.62E-05	-0.000624	-4.87E-05	
248	-0.000504	-2.79E-05	-7.11E-05
-3.24E-05	-0.000500	-4.17E-05	
249	-0.000504	-2.17E-05	-0.001696
-9.89E-05	-0.000409	-3.94E-05	
250	-0.000503	-2.76E-05	-0.004433
-0.000174	-0.000332	-3.90E-05	
251	-0.000503	-3.56E-05	-0.007168
-0.000208	-0.000297	-3.68E-05	
252	-0.000503	-4.17E-05	-0.009457
-0.000221	-0.000290	-3.64E-05	
253	-0.000502	-5.27E-05	-0.010753
-0.000218	-0.000267	-3.73E-05	
254	-0.000502	-6.38E-05	-0.010779
-0.000227	-0.000383	-4.30E-05	
255	-0.000505	-7.18E-05	-0.009529
-0.000233	-0.000557	-4.28E-05	
256	-0.000502	-7.47E-05	-0.007263
-0.000220	-0.000678	-6.16E-05	
257	-0.000501	-7.12E-05	-0.004518
-0.000182	-0.000710	-6.52E-05	
258	-0.000501	-6.04E-05	-0.001741
-0.000101	-0.000642	-5.15E-05	
259	-0.000501	-4.91E-05	-8.17E-05
-5.19E-05	-0.000527	-4.69E-05	
260	-0.000501	-3.58E-05	-0.002777
-0.000133	-0.000441	-4.50E-05	
261	-0.000501	-2.75E-05	-0.005885
-0.000186	-0.000325	-3.79E-05	
262	-0.000501	-2.34E-05	-0.008876
-0.000209	-0.000230	-3.34E-05	
263	-0.000501	-2.47E-05	-0.011294
-0.000218	-0.000157	-3.35E-05	
264	-0.000500	-2.58E-05	-0.012686
-0.000219	-0.000218	-3.47E-05	
265	-0.000500	-2.57E-05	-0.012781
-0.000217	-0.000393	-3.94E-05	
266	-0.000500	-2.46E-05	-0.011503
-0.000209	-0.000596	-5.01E-05	
267	-0.000500	-2.42E-05	-0.008976
-0.000200	-0.000784	-6.77E-05	
268	-0.000499	-2.71E-05	-0.005482
-0.000166	-0.000927	-8.49E-05	
269	-0.000499	-3.24E-05	-0.001304
-0.000106	-0.000932	-6.30E-05	
270	-0.000499	-3.37E-05	-0.000117
-0.000160	-0.000874	-7.46E-05	
271	-0.000364	-5.32E-06	.000000
-1.94E-05	-0.000199	-7.35E-06	
272	-0.000739	-2.98E-05	.000000
-1.98E-05	-0.000292	-4.05E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
-1.40E-05	-0.000323	-4.08E-06	
274	-0.000547	-2.79E-06	.000000
-8.66E-06	-0.000337	-4.32E-06	
275	-0.000409	-1.11E-05	.000000
-2.88E-05	-0.000356	-4.20E-06	
276	-0.000422	-4.16E-06	.000000
-2.53E-05	-0.000615	-2.56E-06	
277	-0.000564	-3.18E-05	.000000
-3.07E-05	-0.000212	-1.83E-06	
278	-0.000874	-3.46E-05	.000000
-2.52E-05	-0.000367	-1.84E-06	
279	.000000	.000000	.000000
-1.30E-05	-0.000395	-1.70E-06	
280	-0.000644	-3.28E-06	.000000
-7.59E-06	-0.000410	-2.16E-06	
281	-0.000511	-1.15E-05	.000000
-8.71E-06	-0.000429	-1.79E-06	
282	-0.000494	-2.38E-05	.000000
-9.80E-06	-0.000805	-2.97E-06	
283	-0.000704	-3.28E-05	.000000
-0.000125	-0.000212	-2.78E-06	
284	-0.000979	5.21E-21	.000000
-0.000134	-0.000403	-5.17E-06	
285	-2.13E-06	-7.21E-05	.000000
-5.59E-05	-0.000452	-5.20E-06	
286	-0.000692	-0.000216	.000000
-9.55E-06	-0.000468	-5.84E-06	
287	-0.000565	-0.000149	.000000
-9.07E-06	-0.000489	-5.15E-06	
288	-0.000538	-0.000152	.000000
-5.02E-06	-0.000952	-9.38E-06	

COMB DB-G3-4 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000595	6.36E-05	4.20E-08
7.27E-05	0.000597	9.57E-06	
2	0.000504	7.40E-05	0.001049
0.000147	0.000561	7.47E-06	
3	0.000503	8.75E-05	0.002117
0.000226	0.000451	3.71E-06	
4	0.000503	9.48E-05	0.003004
0.000277	0.000496	2.30E-06	
5	0.000503	9.50E-05	0.003621
0.000303	0.000124	1.90E-06	
6	0.000503	8.92E-05	0.003877
0.000304	5.81E-06	2.71E-06	
7	0.000503	7.71E-05	0.003688
0.000276	8.59E-05	4.03E-06	
8	0.000504	5.81E-05	0.002996
0.000217	0.000192	4.96E-06	
9	0.000504	3.81E-05	0.001759
0.000144	0.000301	5.78E-06	
10	0.000504	2.53E-05	5.38E-08
7.41E-05	0.000402	5.97E-06	
11	0.000505	2.73E-05	0.001222
7.92E-05	0.000504	6.50E-06	
12	0.000505	3.98E-05	0.002568
0.000161	0.000488	5.23E-06	
13	0.000506	5.47E-05	0.003426
0.000233	0.000448	3.74E-06	
14	0.000506	6.52E-05	0.003828
0.000285	0.000340	3.10E-06	
15	0.000506	7.01E-05	0.003819
0.000312	0.000184	2.75E-06	
16	0.000506	7.20E-05	0.004161
0.000321	0.000105	3.08E-06	
17	0.000506	6.71E-05	0.004206
0.000304	0.000144	4.18E-06	
18	0.000506	5.49E-05	0.003772
0.000258	0.000161	4.86E-06	
19	0.000506	3.61E-05	0.002833
0.000186	0.000242	5.38E-06	
20	0.000506	1.45E-05	0.001351
0.000107	0.000351	5.78E-06	
21	0.000506	1.71E-05	5.45E-08
5.71E-05	0.000506	5.65E-06	
22	0.000506	2.56E-05	0.001323
9.05E-05	0.000478	6.21E-06	
23	0.000506	4.58E-05	0.002787
0.000173	0.000507	5.10E-06	
24	0.000506	6.46E-05	0.003735
0.000247	0.000467	3.79E-06	
25	0.000506	7.77E-05	0.004196
0.000299	0.000353	3.27E-06	
26	0.000506	8.43E-05	0.004171
0.000323	0.000185	2.92E-06	
27	0.000506	8.51E-05	0.004352
0.000324	0.000116	3.13E-06	
28	0.000506	8.04E-05	0.004382
0.000301	0.000160	4.21E-06	
29	0.000505	6.79E-05	0.003904
0.000250	0.000177	4.87E-06	
30	0.000505	4.83E-05	0.002916
0.000175	0.000252	5.50E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	0.000505	2.83E-05	0.001385
9.22E-05	0.000361	6.00E-06	
32	0.000505	1.73E-05	5.81E-08
5.62E-05	0.000431	6.19E-06	
33	0.000505	1.70E-05	0.001373
0.000106	0.000485	6.82E-06	
34	0.000505	4.04E-05	0.002897
0.000188	0.000512	5.72E-06	
35	0.000505	6.16E-05	0.003888
0.000262	0.000470	4.29E-06	
36	0.000505	7.67E-05	0.004376
0.000310	0.000353	3.85E-06	
37	0.000505	8.41E-05	0.004445
0.000329	0.000183	3.89E-06	
38	0.000505	8.49E-05	0.004935
0.000321	0.000119	4.06E-06	
39	0.000505	7.98E-05	0.004968
0.000292	0.000165	4.38E-06	
40	0.000505	7.09E-05	0.004426
0.000239	0.000186	4.92E-06	
41	0.000505	5.52E-05	0.003307
0.000165	0.000285	5.51E-06	
42	0.000505	3.93E-05	0.001572
8.21E-05	0.000408	6.08E-06	
43	0.000505	3.43E-05	5.49E-08
7.67E-05	0.000487	6.55E-06	
44	0.000505	2.93E-05	0.002010
0.000153	0.000566	7.77E-06	
45	0.000505	2.93E-05	0.003521
0.000238	0.000575	6.62E-06	
46	0.000505	6.98E-05	0.004496
0.000309	0.000505	5.53E-06	
47	0.000505	8.85E-05	0.004962
0.000350	0.000365	5.23E-06	
48	0.000505	0.000102	0.004960
0.000369	0.000182	5.36E-06	
49	0.000505	0.000108	0.004556
0.000360	0.000123	5.39E-06	
50	0.000505	0.000109	0.003825
0.000324	0.000173	5.21E-06	
51	0.000505	0.000103	0.002841
0.000265	0.000216	5.45E-06	
52	0.000505	9.22E-05	0.001677
0.000180	0.000246	5.76E-06	
53	0.000505	8.23E-05	0.000395
6.81E-05	0.000262	6.39E-06	
54	0.000505	8.22E-05	3.97E-08
5.40E-05	0.000263	6.43E-06	
55	0.000537	7.47E-05	2.93E-08
4.18E-05	0.000676	2.88E-06	
56	0.000537	6.58E-05	0.001053
0.000115	0.000630	2.35E-06	
57	0.000537	6.58E-05	0.002128
0.000220	0.000502	1.56E-06	
58	0.000537	6.54E-05	0.003025
0.000295	0.000300	1.07E-06	
59	0.000537	6.16E-05	0.003654
0.000330	0.000145	7.93E-07	
60	0.000537	5.39E-05	0.003926
0.000323	1.80E-05	8.48E-07	
61	0.000537	4.50E-05	0.003755
0.000281	8.15E-05	1.22E-06	
62	0.000538	3.85E-05	0.003079
0.000210	0.000190	2.27E-06	
63	0.000538	3.62E-05	0.001835
0.000117	0.000308	3.49E-06	
64	0.000538	3.56E-05	4.61E-08
4.23E-05	0.000430	2.01E-06	
65	0.000539	3.05E-05	0.001289
7.51E-05	0.000501	2.22E-06	
66	0.000539	2.22E-05	0.002661
0.000164	0.000541	2.31E-06	
67	0.000540	2.09E-05	0.003509
0.000247	0.000501	2.02E-06	
68	0.000540	2.37E-05	0.003894
0.000311	0.000395	1.68E-06	
69	0.000540	2.51E-05	0.003843
0.000344	0.000218	1.30E-06	
70	0.000541	2.42E-05	0.004202
0.000349	0.000108	1.06E-06	
71	0.000541	1.98E-05	0.004264
0.000320	0.000147	1.20E-06	
72	0.000541	1.26E-05	0.003848
0.000257	0.000163	1.44E-06	
73	0.000541	1.13E-05	0.002920
0.000172	0.000243	2.26E-06	
74	0.000541	1.73E-05	0.001414
7.66E-05	0.000364	3.05E-06	
75	0.000541	2.35E-05	4.76E-08
2.36E-05	0.000451	1.87E-06	
76	0.000540	2.51E-05	0.001386
7.27E-05	0.000523	2.23E-06	
77	0.000540	2.77E-05	0.002875
0.000168	0.000563	2.39E-06	
78	0.000540	3.69E-05	0.003813
0.000254	0.000524	2.20E-06	
79	0.000540	4.43E-05	0.004256
0.000320	0.000404	1.84E-06	
80	0.000540	4.99E-05	0.004213
0.000352	0.000225	1.34E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
81	0.000539	5.11E-05	0.004394
0.000254	0.000119	1.05E-06	
82	0.000539	4.75E-05	0.004442
0.000323	0.000163	1.15E-06	
83	0.000539	3.98E-05	0.003982
0.000257	0.000179	1.46E-06	
84	0.000539	3.08E-05	0.003004
0.000170	0.000254	2.36E-06	
85	0.000539	2.57E-05	0.001449
7.39E-05	0.000374	3.31E-06	
86	0.000539	2.33E-05	5.33E-08
2.12E-05	0.000461	2.51E-06	
87	0.000539	1.62E-05	0.001437
7.57E-05	0.000532	2.84E-06	
88	0.000538	1.13E-05	0.002984
0.000173	0.000571	3.13E-06	
89	0.000538	2.24E-05	0.003965
0.000261	0.000530	3.15E-06	
90	0.000538	3.59E-05	0.004435
0.000327	0.000408	2.98E-06	
91	0.000538	4.70E-05	0.004454
0.000358	0.000226	2.51E-06	
92	0.000538	5.33E-05	0.004969
0.000355	0.000123	1.82E-06	
93	0.000538	5.52E-05	0.005021
0.000321	0.000168	1.16E-06	
94	0.000538	5.35E-05	0.004498
0.000257	0.000187	1.13E-06	
95	0.000538	4.84E-05	0.003390
0.000173	0.000287	2.47E-06	
96	0.000538	4.46E-05	0.001633
8.27E-05	0.000422	3.89E-06	
97	0.000538	4.24E-05	4.12E-08
5.20E-05	0.000517	2.84E-06	
98	0.000539	3.22E-05	0.002083
0.000125	0.000617	3.00E-06	
99	0.000538	2.19E-05	0.003599
0.000227	0.000636	3.72E-06	
100	0.000539	1.98E-05	0.004557
0.000312	0.000567	4.24E-06	
101	0.000539	3.58E-05	0.005003
0.000370	0.000423	4.34E-06	
102	0.000539	5.28E-05	0.004984
0.000403	0.000231	3.94E-06	
103	0.000539	6.62E-05	0.004568
0.000399	0.000119	3.15E-06	
104	0.000539	7.48E-05	0.003829
0.000358	0.000176	2.26E-06	
105	0.000539	7.81E-05	0.002841
0.000281	0.000218	1.69E-06	
106	0.000538	7.88E-05	0.001677
0.000170	0.000247	2.68E-06	
107	0.000538	8.07E-05	0.000395
4.59E-05	0.000263	4.77E-06	
108	0.000538	8.33E-05	2.57E-08
4.45E-05	0.000264	5.08E-06	
109	0.000555	7.16E-05	4.22E-08
5.01E-05	0.000701	7.45E-06	
110	0.000555	7.04E-05	0.001062
0.000115	0.000650	7.04E-06	
111	0.000555	8.28E-05	0.002147
0.000191	0.000512	5.74E-06	
112	0.000556	9.89E-05	0.003056
0.000247	0.000329	4.04E-06	
113	0.000556	0.000108	0.003701
0.000275	0.000140	2.49E-06	
114	0.000556	0.000105	0.003990
0.000273	2.86E-05	1.33E-06	
115	0.000556	9.24E-05	0.003833
0.000243	8.14E-05	2.33E-06	
116	0.000556	7.27E-05	0.003157
0.000185	0.000194	3.84E-06	
117	0.000557	4.92E-05	0.001888
0.000111	0.000319	5.14E-06	
118	0.000557	3.46E-05	5.67E-08
5.23E-05	0.000445	5.79E-06	
119	0.000558	3.27E-05	0.001329
6.10E-05	0.000518	6.00E-06	
120	0.000558	5.21E-05	0.002736
0.000138

0.000159	0.000592	6.31E-06	
143	0.000557	8.39E-05	0.004047
0.000230	0.000549	5.80E-06	
144	0.000556	0.000105	0.004505
0.000278	0.000522	5.12E-06	
145	0.000556	0.000116	0.004511
0.000297	0.000233	4.44E-06	
146	0.000556	0.000116	0.005013
0.000291	0.000127	3.72E-06	
147	0.000555	0.000105	0.005082
0.000262	0.000172	3.76E-06	
148	0.000555	8.90E-05	0.004572
0.000210	0.000189	4.00E-06	
149	0.000555	6.87E-05	0.003461
0.000141	0.000292	4.84E-06	
150	0.000555	5.01E-05	0.001673
6.31E-05	0.000434	6.07E-06	
151	0.000555	4.07E-05	5.69E-08
5.73E-05	0.000534	6.68E-06	
152	0.000555	4.50E-05	0.002135
0.000123	0.000639	7.04E-06	
153	0.000555	7.04E-05	0.003675
0.000205	0.000661	6.97E-06	
154	0.000555	9.70E-05	0.004630
0.000276	0.000591	6.72E-06	
155	0.000553	0.000118	0.005059
0.000322	0.000443	6.30E-06	
156	0.000555	0.000130	0.005022
0.000340	0.000244	5.85E-06	
157	0.000555	0.000133	0.004589
0.000331	0.000122	4.96E-06	
158	0.000555	0.000125	0.003839
0.000297	0.000055	4.71E-06	
159	0.000555	0.000111	0.002845
0.000237	0.000220	5.40E-06	
160	0.000555	9.38E-05	0.001677
0.000152	0.000249	6.03E-06	
161	0.000554	8.21E-05	0.000395
5.34E-05	0.000255	6.44E-06	
162	0.000554	7.90E-05	3.81E-08
3.39E-05	0.000266	6.40E-06	
163	0.000521	6.13E-05	3.89E-05
3.41E-05	0.000800	9.24E-05	
164	0.000521	7.08E-05	0.001048
0.000136	0.000709	6.87E-05	
165	0.000520	8.18E-05	0.002119
0.000284	0.000597	6.07E-05	
166	0.000520	8.77E-05	0.003009
0.000363	0.000440	4.96E-05	
167	0.000520	8.58E-05	0.003630
0.000397	0.000264	4.24E-05	
168	0.000520	7.65E-05	0.003891
0.000393	0.000231	4.02E-05	
169	0.000520	6.45E-05	0.003709
0.000348	0.000186	3.91E-05	
170	0.000520	5.05E-05	0.003023
0.000266	0.000281	3.95E-05	
171	0.000521	3.53E-05	0.001780
0.000145	0.000391	4.53E-05	
172	0.000521	2.52E-05	1.71E-05
3.21E-05	0.000472	4.71E-05	
173	0.000521	2.58E-05	0.001238
7.40E-05	0.000572	5.29E-05	
174	0.000522	3.25E-05	0.002600
0.000201	0.000628	6.08E-05	
175	0.000522	4.09E-05	0.003456
0.000301	0.000595	5.88E-05	
176	0.000522	5.22E-05	0.003851
0.000372	0.000484	5.31E-05	
177	0.000523	5.78E-05	0.003815
0.000406	0.000326	4.42E-05	
178	0.000523	5.75E-05	0.004174
0.000414	0.000222	4.39E-05	
179	0.000523	5.06E-05	0.004225
0.000390	0.000244	4.47E-05	
180	0.000523	3.80E-05	0.003798
0.000324	0.000252	4.78E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	0.000523	2.56E-05	0.002862
0.000222	0.000326	5.28E-05	
182	0.000521	1.09E-05	0.001366
8.79E-05	0.000401	5.37E-05	
183	0.000523	1.32E-05	1.67E-05
1.45E-05	0.000483	5.51E-05	
184	0.000523	2.17E-05	0.001338
7.98E-05	0.000592	6.67E-05	
185	0.000523	3.71E-05	0.002817
0.000211	0.000649	7.55E-05	
186	0.000523	5.48E-05	0.003762
0.000315	0.000615	7.20E-05	
187	0.000522	6.95E-05	0.004216
0.000387	0.000498	6.19E-05	
188	0.000522	7.82E-05	0.004185
0.000417	0.000351	4.60E-05	
189	0.000522	7.94E-05	0.004365
0.000419	0.000233	3.28E-05	
190	0.000522	7.28E-05	0.004402
0.000390	0.000258	2.91E-05	
191	0.000521	5.93E-05	0.003930
0.000319	0.000267	2.89E-05	
192	0.000521	4.17E-05	0.002945
0.000215	0.000337	3.38E-05	
193	0.000521	2.45E-05	0.001400
8.26E-05	0.000412	3.82E-05	
194	0.000521	1.37E-05	1.71E-05
1.28E-05	0.000494	4.08E-05	
195	0.000521	1.13E-05	0.001389
8.86E-05	0.000521	5.21E-05	
196	0.000521	2.79E-05	0.002926
0.000224	0.000655	6.07E-05	
197	0.000521	4.73E-05	0.003914
0.000329	0.000619	5.70E-05	
198	0.000521	6.38E-05	0.004395
0.000398	0.000539	4.92E-05	
199	0.000521	7.46E-05	0.004440
0.000423	0.000327	4.19E-05	
200	0.000521	7.81E-05	0.004946
0.000416	0.000238	4.07E-05	
201	0.000521	7.57E-05	0.004986
0.000382	0.000264	4.08E-05	
202	0.000521	6.62E-05	0.004452
0.000309	0.000274	4.09E-05	
203	0.000521	5.24E-05	0.003339
0.000206	0.000371	4.20E-05	
204	0.000521	3.83E-05	0.001594
7.71E-05	0.000461	4.47E-05	
205	0.000521	3.31E-05	2.74E-05
3.55E-05	0.000585	5.21E-05	
206	0.000521	2.85E-05	0.002023
0.000151	0.000702	6.50E-05	
207	0.000521	3.34E-05	0.003541
0.000281	0.000719	6.66E-05	
208	0.000522	4.86E-05	0.004511
0.000378	0.000654	6.19E-05	
209	0.000522	6.95E-05	0.004971
0.000440	0.000511	5.14E-05	
210	0.000522	8.62E-05	0.004964
0.000465	0.000328	3.85E-05	
211	0.000522	9.66E-05	0.004557
0.000457	0.000245	3.36E-05	
212	0.000522	0.000102	0.003824
0.000415	0.000272	3.27E-05	
213	0.000522	9.91E-05	0.002840
0.000339	0.000297	3.29E-05	
214	0.000522	8.93E-05	0.001678
0.000215	0.000312	3.32E-05	
215	0.000522	7.73E-05	0.000400
3.33E-05	0.000261	2.26E-05	
216	0.000522	7.21E-05	3.47E-05
3.45E-05	0.000262	2.78E-05	
217	0.000545	7.13E-05	0.000101
5.72E-05	0.000861	9.32E-05	
218	0.000546	5.64E-05	0.001060
0.000133	0.000755	7.00E-05	
219	0.000546	5.52E-05	0.002140
0.000272	0.000626	6.02E-05	
220	0.000546	6.30E-05	0.003044
0.000359	0.000450	5.12E-05	
221	0.000546	6.63E-05	0.003683
0.000393	0.000266	4.46E-05	
222	0.000546	6.22E-05	0.003965
0.000382	0.000143	4.46E-05	
223	0.000546	5.42E-05	0.003804
0.000335	0.000185	4.58E-05	
224	0.000546	4.36E-05	0.003128
0.000256	0.000282	4.84E-05	
225	0.000547	4.85E-05	0.001868
0.000151	0.000403	5.35E-05	
226	0.000547	3.39E-05	4.59E-05
6.02E-05	0.000496	5.41E-05	
227	0.000547	2.89E-05	0.001313
0.000108	0.000601	5.93E-05	
228	0.000546	2.77E-05	0.002709
0.000209	0.000662	6.75E-05	
229	0.000548	3.69E-05	0.003562
0.000294	0.000625	6.55E-05	
230	0.000549	4.93E-05	0.003939
0.000361	0.000506	5.97E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	0.000549	5.72E-05	0.003877
0.000396	0.000339	5.26E-05	
232	0.000549	5.76E-05	0.004233
0.000400	0.000226	4.65E-05	
233	0.000550	5.03E-05	0.004307
0.000371	0.000248	4.21E-05	
234	0.000550	3.85E-05	0.003899
0.000306	0.000255	4.08E-05	
235	0.000550	2.55E-05	0.002967
0.000215	0.000328	4.36E-05	
236	0.000549	1.55E-05	0.001439
0.000104	0.000417	4.84E-05	
237	0.000549	2.10E-05	4.38E-05
3.78E-05	0.000507	5.28E-05	
238	0.000549	2.73E-05	0.001411
0.000102	0.000521	6.61E-05	
239	0.000549	4.25E-05	0.002922
0.000207	0.000685	7.72E-05	
240	0.000548	5.87E-05	0.003864
0.000297	0.000650	7.53E-05	
241	0.000548	7.23E-05	0.004300
0.000366	0.000526	6.59E-05	
242	0.000548	8.08E-05	0.004246
0.000398	0.000347	5.23E-05	
243	0.000548	8.12E-05	0.004425
0.000399	0.000235	4.63E-05	
244	0.000548	7.27E-05	0.004485
0.000368	0.000260	4.44E-05	
245	0.000548	5.74E-05	0.004034
0.000300	0.000268	4.34E-05	
246	0.000548	4.08E-05	0.003052
0.000210	0.000338	4.32E-05	
247	0.000548	2.60E-05	0.001475
0.000104	0.000426	4.19E-05	
248	0.000547	2.00E-05	4.44E-05
3.59E-05	0.000516	4.52E-05	
249	0.000547	1.86E-05	0.001462
0.000105	0.000631	5.63E-05	
250	0.000547	3.05E-05	0.003033
0.000217	0.000693	6.47E-05	
251	0.000547	4.97E-05	0.004017
0.000310	0.000657	6.09E-05	
252	0.000546	6.74E-05	0.004479
0.000378	0.000531	5.32E-05	
253	0.000546	7.92E-05	0.004481
0.000408	0.000349	4.61E-05	
254	0.000546	8.30E-05	0.004996
0.000405	0.000237	4.19E-05	
255	0.000546	7.81E-05	0.005058
0.000370	0.000264	4.08E-05	
256	0.000546	6.65E-05	0.004544
0.000301	0.000274	4.17E-05	
257	0.000546	5.45E-05	0.003433
0.000214	0.000372	4.63E-05	
258	0.000546	4.53E-05	0.001653
0.00011	0.000475	4.72E-05	
259	0.000546	3.94E-05	5.11E-05
6.19E-05	0.000607	5.44E-05	
260	0.000546	3.38E-05	0.002121
0.000153	0.000734	7.09E-05	
261	0.000546	3.79E-05	0.003651
0.000266	0.000761	7.31E-05	
262	0.000546	5.23E-05	0.004605
0.000358	0.000695	6.63E-05	
263	0.000547	7.16E-05	0.005040
0.000425	0.000549	5.34E-05	
264	0.000546	8.73E-05	0.005008
0.000459	0.000357	4.46E-05	
265	0.000546	9.54E-05	0.004582
0.000439	0.000232	3.89E-05	
266	0.000546	9.42E-05	0.003835
0.000419	0.000267	3.86E-05	
267	0.000546	8.87E-05	0.002843
0.000336	0.000297	3.91E-05	
268	0.000546	8.32E-05	0.001675
0.000206	0.000313	3.99E-05	
269	0.000545	7.98E-05	0.000391
3.42E-05	0.000264	2.65E-05	
270	0.000545	7.74E-05	8.95E-05
4.45E-05	0.000265	3.25E-05	
271	0.000424	8.58E-06	.000000
8.74E-05	0.000596	9.57E-06	
272	0.000659	5.12E-05	.000000
8.20E-05	0.000397	5.97E-06	
273	.000000	.000000	.000000
6.19E-05	0.000420	5.65E-06	
274	0.000964	2.42E-06	.000000
5.87E-05	0.000430	6.19E-06	
275	0.000418	1.83E-05	.000000
0.000105	0.000482	6.55E-06	
276	0.000956	9.41E-06	.000000
5.20E-05	0.000263	6.43E-06	
277	0.000455	4.87E-05	.000000
8.19E-05	0.000674	2.88E-06	
278	0.000694	5.42E-05	.000000
4.72E-05	0.000428	2.01E-06	
279	.000000	.000000	.000000
2.76E-05	0.000450	1.87E-06	
280	0.001021	2.57E-06	.000000
2.41E-05	0.000460	2.51E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.000449	1.01E-05	.000000
2.99E-05	0.000518	2.84E-06	
282	0.001031	4.97E-05	.000000
2.13E-05	0.000266	5.08E-06	
283	0.000485	6.59E-05	.000000
0.000178	0.000681	7.45E-06	
284	0.000712	3.05E-05	.000000
0.000128	0.000423	5.79E-06	
285	1.47E-06	4.97E-05	.000000
4.45E-05	0.000465	6.05E-06	
286	0.001018	0.000248	.000000
3.13E-06	0.000475	6.31E-06	
287	0.000457	0.000116	.000000
4.40E-21	0.000535	6.68E-06	
288	0.001064	0.000208	.000000
3.34E-05	0.000270	6.40E-06	

COMB DB-G3-4 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000494	-8.46E-05	-1.57E-07
-6.02E-05	-0.000235	-6.65E-06	
2	-0.000493	-7.81E-05	-0.002607
-7.89E-05	-0.000225	-5.87E-06	
3	-0.000493	-0.000100	-0.005092
-0.000103	-0.000197	-4.24E-06	
4	-0.000493	-0.000116	-0.006841
-0.000117	-0.000153	-8.40E-05	
5	-0.000493	-0.000122	-0.007616
-0.000117	-0.000101	-3.53E-06	
6	-0.000493	-0.000117	-0.007335
-0.000113	-0.000175	-3.48E-06	
7	-0.000493	-0.000103	-0.006103
-0.000105	-0.000321	-3.94E-06	
8	-0.000493	-8.40E-05	-0.004220
-8.24E-05	-0.000411	-5.18E-06	
9	-0.000493	-7.40E-05	-0.002058
-4.54E-05	-0.000428	-6.66E-06	
10	-0.000493	-7.03E-05	-1.98E-07
-2.31E-05	-0.000377	-5.90E-06	
11	-0.000493	-7.40E-05	-0.001504
-4.01E-05	-0.000317	-5.41E-06	
12	-0.000493	-8.01E-05	-0.003869
-8.55E-05	-0.000220	-5.43E-06	
13	-0.000493	-9.37E-05	-0.006178
-0.000118	-0.000176	-4.77E-06	
14	-0.000493	-0.000108	-0.008055
-0.000134	-0.000159	-4.11E-06	
15	-0.000493	-0.000114	-0.009101
-0.000132	-0.000117	-3.06E-06	
16	-0.000493	-0.000111	-0.009117
-0.000123	-0.000163	-2.82E-06	
17	-0.000493	-0.000100	-0.008098
-0.000122	-0.000320	-3.20E-06	
18	-0.000493	-8.74E-05	-0.006235
-0.000107	0.000434	-3.64E-06	
19	-0.000493	-7.64E-05	-0.003923
-7.69E-05	-0.000482	-5.01E-06	
20	-0.000493	-7.17E-05	-0.001534
-3.18E-05	-0.000461	-6.15E-06	
21	-0.000493	-6.84E-05	-1.97E-07
-1.43E-05	-0.000411	-5.58E-06	
22	-0.000493	-6.60E-05	-0.001575
-3.51E-05	-0.000345	-5.83E-06	
23	-0.000493	-7.46E-05	-0.004048
-8.18E-05	-0.000241	-5.48E-06	
24	-0.000493	-9.07E-05	-0.006473
-0.000114	-0.000185	-4.59E-06	
25	-0.000493	-0.000111	-0.008466
-0.000131	-0.000167	-4.31E-06	
26	-0.000493	-0.000111	-0.009579
-0.000130	-0.000122	-3.15E-06	
27	-0.000493	-0.000114	-0.009588
-0.000130	-0.000182	-2.77E-06	
28	-0.000493	-0.000108	-0.008491
-0.000131	-0.000350	-2.74E-06	
29	-0.000493	-9.30E-05	-0.006505
-0.000115	-0.000466	-3.75E-06	
30	-0.000493	-7.54E-05	-0.004077
-8.20E-05	-0.000508	-5.13E-06	
31	-0.000493	-6.58E-05	-0.001591
-3.43E-05	-0.000481	-5.74E-06	
32	-0.000493	-6.90E-05	-1.97E-07
-1.30E-05	-0.000427	-6.11E-06	
33	-0.000493	-7.16E-05	-0.001609
-3.34E-05	-0.000358	-6.39E-06	
34	-0.000493	-7.55E-05	-0.004132
-7.98E-05	-0.000251	-6.03E-06	
35	-0.000493	-8.63E-05	-0.006606
-0.000111	-0.000209	-5.43E-06	
36	-0.000493	-0.000108	-0.008645
-0.000127	-0.000189	-4.69E-06	
37	-0.000492	-0.000123	-0.009792
-0.000128	-0.000138	-3.43E-06	
38	-0.000492	-0.000128	-0.009820
-0.000137	-0.000189	-2.64E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000492	-0.000122	-0.008721
-0.000138	-0.000361	-3.05E-06	
40	-0.000492	-0.000108	-0.006706
-0.000121	-0.000479	-3.60E-06	
41	-0.000493	-8.86E-05	-0.004226
-8.63E-05	-0.000524	-5.23E-06	
42	-0.000493	-9.19E-05	-0.001661
-4.02E-05	-0.000501	-6.25E-06	
43	-0.000493	-0.000104	-2.09E-07
-2.04E-05	-0.000450	-5.92E-06	
44	-0.000493	-0.000102	-0.002671
-5.03E-05	-0.000355	-6.14E-06	
45	-0.000493	-0.000123	-0.005581
-9.34E-05	0.000248	-5.48E-06	
46	-0.000492	-0.000106	-0.008336
-0.000124	-0.000143	-4.66E-06	
47	-0.000492	-0.000113	-0.010524
-0.000142	-4.47E-05	-3.73E-06	
48	-0.000492	-0.000117	-0.011765
-0.000149	-3.65E-05	-6.74E-06	
49	-0.000492	-0.000116	-0.011825
-0.000156	-0.000202	-1.99E-06	
50	-0.000492	-0.000107	-0.010639
-0.000153	-0.000403	-2.47E-06	
51	-0.000491	-8.95E-05	-0.008309
-0.000136	-0.000587	-3.10E-06	
52	-0.000491	-6.74E-05	-0.005076
-0.000108	-0.000732	-4.91E-06	
53	-0.000491	-5.80E-05	-0.001215
-8.66E-05	-0.000809	-8.06E-06	
54	-0.000492	-5.98E-05	-1.60E-07
-8.18E-05	-0.000813	-8.49E-06	
55	-0.000492	-6.33E-05	-3.73E-07
-9.22E-05	-0.000238	-5.36E-06	
56	-0.000524	-5.58E-05	-0.002959
-0.000130	-0.000228	-4.11E-06	
57	-0.000524	-5.11E-05	-0.005763
-0.000192	-0.000201	-1.92E-06	
58	-0.000524	-4.91E-05	-0.007728
-0.000233	-0.000157	-1.24E-06	
59	-0.000524	-4.80E-05	-0.008586
-0.000247	-0.000104	-1.90E-06	
60	-0.000524	-4.69E-05	-0.008251
-0.000236	-0.000227	-2.41E-06	
61	-0.000525	-4.47E-05	-0.006836
-0.000204	-0.000381	-2.73E-06	
62	-0.000524	-4.12E-05	-0.004693
-0.000158	-0.000475	-2.95E-06	
63	-0.000526	-3.65E-05	-0.002262
-9.62E-05	-0.000484	-2.87E-06	
64	-0.000527	-3.13E-05	-4.71E-07
-3.78E-05	-0.000410	-2.25E-06	
65	-0.000527	-2.91E-05	-0.001628
-7.91E-05	-0.000332	-3.17E-06	
66	-0.000528	-3.07E-05	-0.004240
-0.000161	-0.000223	-2.26E-06	
67	-0.000528	-3.27E-05	-0.006816
-0.000221	-0.000178	-1.51E-06	
68	-0.000529	-3.18E-05	-0.008922
-0.000257	-0.000162	-1.17E-06	
69	-0.000529	-2.92E-05	-0.010098
-0.000265	-0.000120	-1.06E-06	
70	-0.000529	-2.63E-05	-0.010115
-0.000256	-0.000205	-1.27E-06	
71	-0.000529	-2.44E-05	-0.008968
-0.000238	-0.000373	-1.72E-06	
72	-0.000529	-2.31E-05	-0.006875
-0.000198	-0.000494	-2.00E-06	
73	-0.000529	-2.15E-05	-0.004294
-0.000142	-0.000541	-2.30E-06	
74	-0.000529	-2.34E-05	-0.001658
-6.90E-05	-0.000508	-2.25E-06	
75	-0.000529	-2.83E-05	-4.71E-07
-1.96E-05	-0.000441	-1.86E-06	
76	-0.000529	-3.25E-05	-0.001698
-7.01E-05	-0.000358	-3.00E-06	
77	-0.000528	-3.65E-05	-0.004417
-0.000150	-0.000243	-2.29E-06	
78	-0.000528	-3.87E-05	-0.007115
-0.000211	-0.000187	-1.59E-06	
79	-0.000528	-3.86E-05	-0.009347
-0.000250	-0.000170	-1.34E-06	
80	-0.000528	-3.69E-05	-0.010595
-0.000264	-0.000125	-1.12E-06	
81	-0.000528	-4.02E-05	-0.010605
-0.000265	-0.000222	-1.26E-06	
82	-0.000528	-4.26E-05	-0.009374
-0.000251	-0.000401	-1.72E-06	
83	-0.000528	-4.25E-05	-0.007149
-0.000211	-0.000523	-2.05E-06	
84	-0.000527	-3.96E-05	-0.004449
-0.000151	-0.000565	-2.50E-06	
85	-0.000527	-3.35E-05	-0.001716
-7.05E-05	-0.000527	-2.62E-06	
86	-0.000527	-2.76E-05	-4.71E-07
-1.71E-05	-0.000456	-2.38E-06	
87	-0.000527	-2.15E-05	-0.001733
-6.89E-05	-0.000371	-3.45E-06	
88	-0.000527	-2.27E-05	-0.004501
-0.000144	-0.000253	-3.93E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	-0.000527	-2.92E-05	-0.007246
-0.000202	-0.000211	-2.58E-06	
90	-0.000527	-3.98E-05	-0.009523
-0.000244	-0.000192	-2.47E-06	
91	-0.000527	-5.01E-05	-0.010807
-0.000263	-0.000141	-2.18E-06	
92	-0.000527	-5.98E-05	-0.010838
-0.000274	-0.000225	-1.71E-06	
93	-0.000527	-6.65E-05	-0.009604
-0.000265	-0.000408	-1.18E-06	
94	-0.000527	-6.91E-05	-0.007352
-0.000227	-0.000534	-1.45E-06	
95	-0.000527	-6.67E-05	-0.004599
-0.000166	-0.000579	-2.01E-06	
96	-0.000527	-5.88E-05	-0.001786
-8.19E-05	-0.000545	-2.20E-06	
97	-0.000527	-5.09E-05	-4.80E-07
-4.23E-05	-0.000477	-1.98E-06	
98	-0.000527	-3.83E-05	-0.002855
-0.000100	-0.000360	-1.91E-06	
99	-0.000527	-2.83E-05	-0.006016
-0.000166	-0.000246	-2.34E-06	
100	-0.000527	-2.41E-05	-0.009039
-0.000219	-0.000138	-1.63E-06	
101	-0.000527	-2.09E-05	-0.011456
-0.000261	-0.000543	-1.48E-06	
102	-0.000527	-1.90E-05	-0.012838
-0.000288	-5.91E-05	-1.28E-06	
103	-0.000527	-1.91E-05	-0.012916
-0.000295	-0.000230	-1.08E-06	
104	-0.000526	-1.97E-05	-0.011620
-0.000281	-0.000441	-9.08E-07	
105	-0.000526	-2.24E-05	-0.009073
-0.000241	-0.000637	-1.13E-06	
106	-0.000526	-2.60E-05	-0.005546
-0.000179	-0.000795	-1.87E-06	
107	-0.000526	-3.09E-05	-0.001332
-0.000115	-0.000885	-3.23E-06	
108	-0.000525	-3.25E-05	-3.80E-07
-0.000116	-0.000890	-3.45E-06	
109	-0.000543	-6.46E-05	-2.80E-07
-0.000138	-0.000241	-6.30E-06	
110	-0.000543	-5.89E-05	-0.003052
-0.000196	-0.000231	-5.93E-06	
111	-0.000543	-5.97E-05	-0.005942
-0.000256	-0.000204	-4.98E-06	
112	-0.000543	-7.27E-05	-0.007956
-0.000285	-0.000160	-3.93E-06	
113	-0.000543	-8.27E-05	-0.008826
-0.000289	-9.81E-05	-3.23E-06	
114	-0.000544	-8.53E-05	-0.008470
-0.000272	-0.000241	-3.76E-06	
115	-0.000544	-8.01E-05	-0.007018
-0.000235	-0.000400	-4.65E-06	
116	-0.000545	-6.71E-05	-0.004820
-0.000177	-0.000495	-5.43E-06	
117	-0.000546	-4.88E-05	-0.002324
-0.000100	-0.000502	-5.99E-06	
118	-0.000546	-3.31E-05	-3.51E-07
-6.24E-05	-0.000425	-5.91E-06	
119	-0.000547	-3.35E-05	-0.001676
-0.000101	-0.000343	-5.53E-06	
120	-0.000547	-5.49E-05	-0.004363
-0.000185	-0.000228	-4.55E-06	
121	-0.000548	-7.14E-05	-0.007010
-0.000252	-0.000181	-3.95E-06	
122	-0.000548	-8.08E-05	-0.009168
-0.000292	-0.000165	-3.50E-06	
123	-0.000549	-8.35E-05	-0.010366
-0.000304	-0.000124	-2.83E-06	
124	-0.000549	-8.06E-05	-0.010382
-0.000295	-0.000212	-3.29E-06	
125	-0.000549	-7.58E-05	-0.009211
-0.000274	-0.000387	-4.16E-06	
126	-0.000548	-6.80E-05	-0.007067
-0.

146	-0.000544	-9.67E-05	-0.011112
-0.000311	-0.000226	-3.43E-06	
147	-0.000543	-9.63E-05	-0.009853
-0.000297	-0.000416	-4.46E-06	
148	-0.000543	-8.70E-05	-0.007547
-0.000256	-0.000548	-5.23E-06	
149	-0.000543	-7.13E-05	-0.004721
-0.000186	-0.000596	-5.66E-06	
150	-0.000543	-6.05E-05	-0.001833
-0.000101	-0.000562	-5.92E-06	
151	-0.000543	-5.28E-05	-3.65E-07
-6.15E-05	-0.000493	-5.86E-06	
152	-0.000543	-6.00E-05	-0.002931
-0.000105	-0.000372	-5.40E-06	
153	-0.000543	-7.23E-05	-0.006179
-0.000188	-0.000251	-4.32E-06	
154	-0.000543	-8.42E-05	-0.009279
-0.000253	-0.000138	-2.99E-06	
155	-0.000543	-8.71E-05	-0.011750
-0.000298	-3.83E-05	-1.81E-06	
156	-0.000542	-8.12E-05	-0.013162
-0.000325	-6.69E-05	-1.84E-06	
157	-0.000542	-6.86E-05	-0.013253
-0.000337	-0.000225	-2.94E-06	
158	-0.000542	-5.60E-05	-0.011948
-0.000331	-0.000443	-4.16E-06	
159	-0.000542	-4.05E-05	-0.009352
-0.000302	-0.000650	-6.02E-06	
160	-0.000541	-3.07E-05	-0.005726
-0.000243	-0.000820	-7.56E-06	
161	-0.000541	-3.68E-05	-0.001375
-0.000158	-0.000919	-8.41E-06	
162	-0.000540	-3.90E-05	-2.83E-07
-0.000139	-0.000925	-8.46E-06	
163	-0.000509	-4.77E-05	-0.000146
-0.000174	-0.000247	-5.13E-06	
164	-0.000509	-6.14E-05	-0.002854
-0.000120	-0.000320	-4.47E-05	
165	-0.000508	-7.45E-05	-0.005520
-0.000179	-0.000288	-4.46E-05	
166	-0.000508	-8.21E-05	-0.007408
-0.000222	-0.000259	-4.35E-05	
167	-0.000508	-8.37E-05	-0.008235
-0.000240	-0.000231	-4.31E-05	
168	-0.000508	-8.04E-05	-0.007921
-0.000235	-0.000324	-4.05E-05	
169	-0.000509	-7.19E-05	-0.006568
-0.000213	-0.000470	-4.88E-05	
170	-0.000509	-5.92E-05	-0.004521
-0.000182	-0.000560	-5.31E-05	
171	-0.000509	-4.52E-05	-0.002201
-0.000138	-0.000571	-5.28E-05	
172	-0.000505	-3.59E-05	-7.41E-05
-7.13E-05	-0.000483	-4.27E-05	
173	-0.000509	-4.30E-05	-0.001599
-9.87E-05	-0.000378	-3.59E-05	
174	-0.000510	-5.53E-05	-0.004109
-0.000167	-0.000313	-3.38E-05	
175	-0.000510	-6.53E-05	-0.006578
-0.000212	-2.96E-05	-2.68E-06	
176	-0.000510	-7.40E-05	-0.008602
-0.000240	-0.000260	-3.03E-05	
177	-0.000510	-7.70E-05	-0.009734
-0.000247	-0.000236	-3.40E-05	
178	-0.000511	-7.41E-05	-0.009750
-0.000242	-0.000247	-4.66E-05	
179	-0.000511	-6.55E-05	-0.008646
-0.000230	-0.000465	-6.02E-05	
180	-0.000511	-5.52E-05	-0.006636
-0.000201	-0.000583	-7.02E-05	
181	-0.000511	-4.46E-05	-0.004163
-0.000162	-0.000626	-7.41E-05	
182	-0.000511	-3.71E-05	-0.001629
-0.000103	-0.000578	-6.58E-05	
183	-0.000510	-3.66E-05	-6.70E-05
-4.88E-05	-0.000475	-5.45E-05	
184	-0.000510	-3.74E-05	-0.001669
-9.63E-05	-0.000398	-5.32E-05	
185	-0.000510	-4.97E-05	-0.004287
-0.000160	-0.000327	-5.24E-05	
186	-0.000510	-6.10E-05	-0.006874
-0.000204	-0.000274	-4.74E-05	
187	-0.000510	-6.86E-05	-0.009020
-0.000233	-0.000265	-4.40E-05	
188	-0.000510	-7.13E-05	-0.010223
-0.000243	-0.000239	-4.23E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
141

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	-0.000510	-7.43E-05	-0.010232
-0.000244	-0.000325	-4.38E-05	
190	-0.000510	-7.20E-05	-0.009046
-0.000234	-0.000495	-5.31E-05	
191	-0.000510	-6.42E-05	-0.006907
-0.000205	-0.000614	-5.90E-05	
192	-0.000510	-5.14E-05	-0.004317
-0.000162	-0.000650	-6.10E-05	
193	-0.000510	-3.82E-05	-0.001686
-9.82E-05	-0.000596	-5.32E-05	
194	-0.000509	-3.63E-05	-6.80E-05
-4.60E-05	-0.000489	-4.31E-05	
195	-0.000509	-3.58E-05	-0.001704
-0.000102	-0.000408	-4.13E-05	
196	-0.000509	-4.59E-05	-0.004371
-0.000163	-0.000335	-3.97E-05	
197	-0.000509	-5.85E-05	-0.007006
-0.000205	-0.000295	-3.82E-05	
198	-0.000509	-7.36E-05	-0.009197
-0.000235	-0.000283	-3.77E-05	
199	-0.000509	-8.38E-05	-0.010437
-0.000247	-0.000251	-3.79E-05	
200	-0.000509	-8.76E-05	-0.010466
-0.000254	-0.000331	-4.26E-05	
201	-0.000509	-8.68E-05	-0.009279
-0.000246	-0.000504	-5.26E-05	
202	-0.000509	-7.98E-05	-0.007113
-0.000216	-0.000627	-6.19E-05	
203	-0.000509	-6.87E-05	-0.004472
-0.000170	-0.000664	-6.65E-05	
204	-0.000510	-6.57E-05	-0.001765
-0.000100	-0.000613	-5.79E-05	
205	-0.000510	-6.43E-05	-8.02E-05
-7.21E-05	-0.000517	-5.37E-05	
206	-0.000509	-5.86E-05	-0.002793
-0.000139	-0.000442	-4.69E-05	
207	-0.000509	-5.79E-05	-0.005851
-0.000187	-0.000332	-4.12E-05	
208	-0.000509	-6.09E-05	-0.008765
-0.000225	-0.000232	-3.65E-05	
209	-0.000509	-6.74E-05	-0.011103
-0.000257	-0.000146	-3.57E-05	
210	-0.000509	-6.99E-05	-0.012435
-0.000277	-0.000167	-3.61E-05	
211	-0.000509	-6.80E-05	-0.012505
-0.000278	-0.000340	-4.21E-05	
212	-0.000509	-6.36E-05	-0.011246
-0.000260	-0.000543	-5.37E-05	
213	-0.000509	-5.59E-05	-0.008779
-0.000224	-0.000731	-7.36E-05	
214	-0.000509	-4.41E-05	-0.005377
-0.000168	-0.000872	-9.15E-05	
215	-0.000509	-2.95E-05	-0.001325
-0.000117	-0.000891	-9.66E-05	
216	-0.000509	-2.82E-05	-0.000123
-0.000158	-0.000845	-7.98E-05	
217	-0.000533	-6.17E-05	-0.000131
-0.000134	-0.000250	-5.35E-05	
218	-0.000533	-5.51E-05	-0.003044
-0.000174	-0.000321	-4.53E-05	
219	-0.000533	-5.06E-05	-0.005927
-0.000288	-0.000287	-4.46E-05	
220	-0.000533	-5.03E-05	-0.007956
-0.000331	-0.000257	-4.47E-05	
221	-0.000533	-5.43E-05	-0.008835
-0.000342	-0.000218	-4.56E-05	
222	-0.000533	-5.71E-05	-0.008483
-0.000330	-0.000356	-4.88E-05	
223	-0.000534	-5.56E-05	-0.007019
-0.000292	-0.000510	-5.46E-05	
224	-0.000534	-4.83E-05	-0.004811
-0.000232	-0.000601	-5.79E-05	
225	-0.000535	-3.81E-05	-0.002320
-0.000139	-0.000604	-5.88E-05	
226	-0.000535	-3.03E-05	-7.14E-05
-4.50E-05	-0.000504	-4.77E-05	
227	-0.000536	-2.87E-05	-0.001670
-0.000112	-0.000391	-4.20E-05	
228	-0.000537	-3.89E-05	-0.004342
-0.000229	-0.000313	-4.67E-05	
229	-0.000537	-4.72E-05	-0.006986
-0.000304	-0.000268	-4.54E-05	
230	-0.000538	-5.14E-05	-0.009152
-0.000349	-0.000260	-4.62E-05	
231	-0.000538	-5.11E-05	-0.010364
-0.000360	-0.000235	-4.78E-05	
232	-0.000538	-4.67E-05	-0.010380
-0.000351	-0.000329	-5.26E-05	
233	-0.000538	-4.08E-05	-0.009196
-0.000333	-0.000497	-6.43E-05	
234	-0.000538	-3.54E-05	-0.007044
-0.000286	-0.000621	-7.36E-05	
235	-0.000538	-2.69E-05	-0.004397
-0.000211	-0.000663	-7.86E-05	
236	-0.000537	-1.99E-05	-0.001700
-0.000101	-0.000607	-6.52E-05	
237	-0.000537	-2.65E-05	-6.49E-05
-3.01E-05	-0.000497	-5.21E-05	
238	-0.000537	-3.42E-05	-0.001740
-0.000103	-0.000411	-4.78E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
142

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	-0.000537	-4.25E-05	-0.004521
-0.000219	-0.000328	-4.39E-05	
240	-0.000536	-5.04E-05	-0.007287
-0.000298	-0.000275	-4.10E-05	
241	-0.000536	-5.37E-05	-0.009582
-0.000346	-0.000267	-4.10E-05	
242	-0.000536	-5.22E-05	-0.010868
-0.000361	-0.000240	-4.54E-05	
243	-0.000536	-5.44E-05	-0.010878
-0.000362	-0.000344	-5.17E-05	
244	-0.000536	-5.51E-05	-0.009608
-0.000347	-0.000523	-5.97E-05	
245	-0.000536	-5.10E-05	-0.007322
-0.000299	-0.000650	-6.56E-05	
246	-0.000536	-4.32E-05	-0.004554
-0.000221	-0.000686	-6.74E-05	
247	-0.000536	-3.45E-05	-0.001758
-0.000105	-0.000626	-5.93E-05	
248	-0.000535	-2.55E-05	-6.55E-05
-2.85E-05	-0.000512	-4.97E-05	
249	-0.000535	-2.13E-05	-0.001775
-0.000103	-0.000424	-4.90E-05	
250	-0.000535	-3.12E-05	-0.004605
-0.000215	-0.000337	-4.77E-05	
251	-0.000535	-4.28E-05	-0.007418
-0.000292	-0.000297	-4.38E-05	
252	-0.000535	-5.07E-05	-0.009758
-0.000341	-0.000287	-4.17E-05	
253	-0.000535	-5.98E-05	-0.011079
-0.000359	-0.000255	-4.10E-05	
254	-0.000535	-6.75E-05	-0.011107
-0.000368	-0.000346	-4.48E-05	
255	-0.000534	-7.05E-05	-0.009835
-0.000357	-0.000529	-5.26E-05	
256	-0.000534	-7.17E-05	-0.007520
-0.000310	-0.000659	-6.21E-05	
257	-0.000534	-6.82E-05	-0.004698
-0.000231	-0.000700	-6.64E-05	
258	-0.000534	-5.87E-05	-0.001822
-0.000113	-0.000644	-5.69E-05	
259	-0.000534	-4.94E-05	-7.97E-05
-4.47E-05	-0.000541	-4.85E-05	
260	-0.000534	-4.11E-05	-0.002921
-0.000140	-0.000452	-4.64E-05	
261	-0.000534	-3.91E-05	-0.006149
-0.000238	-0.000332	-4.10E-05	
262	-0.000534	-4.09E-05	-0.009238
-0.000307	-0.000230	-4.76E-05	
263	-0.000534	-4.18E-05	-0.011720
-0.000355	-0.000146	-3.80E-05	
264	-0.000534	-4.00E-05	-0.013139
-0.000383	-0.000184	-3.94E-05	
265	-0.000534	-3.39E-05	-0.013224
-0.000391	-0.000348	-4.09E-05	
266	-0.000534	-2.51E-05	-0.011901
-0.000377	-0.000560	-5.29E-05	
267	-0.000534	-2.23E-05	-0.009291
-0.000338	-0.000761	-7.10E-05	
268	-0.000533	-2.60E-05	-0.005680
-0.000254	-0.000918	-8.91E-05	
269	-0.000533	-3.23E-05	-0.001364
-0.000118	-0.000952	-8.56E-05	
270	-0.000533	-3.35E-05	-0.000113
-0.000135	-0.000910	-7.87E-05	
271	-0.000535	-6.79E-06	.000000
-5.73E-05	-0.000235	-6.65E-06	
272	-0.000920	-3.67E-05	.000000
-3.18E-05	-0.000378	-5.10E-06	
273	.000000	.000000	.000000
-2.04E-05	-0.000411	-5.68E-06	
274	-0.000677	-3.45E-06	.000000
-1.54E-05	-0.000427	-6.11E-06	
275	-0.000524	-1.46E-05	.000000
-4.76E-05	-0.000447	-5.92E-06	
276	-0.000518	-5.10E-06	.000000
-6.79E-05	-0.000814	-8.49E-06	
277	-0.000625	-3.55E-05	.000000
-6.69E-05	-0.000234	-5.36E-06	
278	-0.000975	-3.86E-05	.000000
-4.09E-05	-0.000409	-2.25E-06	
279	.000000	.000000	.000000
-2.52E-05	-0.000440	-1.86E-06	
280	-0.000718	-3.65E-06	.000000
-1.99E-05	-0.000456	-2.38E-06	
281	-0.000567	-1.27E-05	.000000
-2.22E-05	-0.000478	-1.98E-06	
282	-0.000551	-2.66E-05	.000000
-3.44E-05	-0.000896	-2.45E-06	
283	-0.000658	-2.76E-05	.000000
-0.000134	-0.000224	-6.30E-06	
284	-0.000998	1.23E-20	.000000
-0.000136	-0.000401	-5.95E-06	
285	-2.04E-06	-6.90E-05	.000000
-5.67E-05	-0.000455	-6.04E-06	
286	-0.000934	-4.16E-05	.000000
-1.38E-05	-0.000472	-6.43E-06	
287	-0.000569	-0.000156	.000000
-1.23E-05	-0.000495	-5.88E-06	
288	-0.000554	-0.000146	.000000
-2.21E-05	-0.000933	-8.46E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
143

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DL-G1-1 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000438	0.000178	2.67E-08
3.32E-05	0.000508	1.77E-06	
2	0.000437	0.000177	0.000674
4.30E-05	0.000448	2.05E-06	
3	0.000436	0.000186	0.001363
5.44E-05	0.000323	3.16E-06	
4	0.000435	0.000197	0.001944
6.39E-05	0.000180	2.55E-06	
5	0.000434	0.000198	0.002367
7.03E-05	6.43E-05	1.13E-06	
6	0.000435	0.000185	0.002578
7.18E-05	2.90E-06	6.84E-07	
7	0.000436	0.000158	0.002516
6.56E-05	4.98E-05	2.03E-06	
8	0.000439	0.000123	0.002120
4.62E-05	0.000123	4.27E-06	
9	0.000441	9.24E-05	0.001308
8.73E-06	0.000411	6.56E-06	
10	0.000443	7.72E-05	3.52E-08
8.91E-06	0.000315	6.45E-06	
11	0.000445	7.76E-05	0.001064
3.43E-05	0.000374	6.07E-06	
12	0.000447	9.22E-05	0.002261
7.33E-05	0.000393	6.78E-06	
13	0.000449	0.000119	0.003125
9.37E-05	0.000345	6.71E-06	
14	0.000449	0.000144	0.003695
0.000102	0.000242	5.24E-06	
15	0.000450	0.000160	0.003964
0.000102	0.000154	3.58E-06	
16	0.000450	0.000160	0.004061
0.000102	9.10E-05	2.05E-06	
17	0.000450	0.000144	0.003883
9.56E-05	9.69E-05	1.45E-06	
18	0.000450	0.000115	0.003359
8.13E-05	0.000151	2.70E-06	
19	0.000450	8.46E-05	0.002479
5.40E-05	0.000218	4.95E-06	
20	0.000449	7.18E-05	0.001186
8.11E-06	0.000305	6.94E-06	
21	0.000449	7.44E-05	5.59E-08
5.47E-06	0.000374	6.93E-06	
22	0.000447	8.17E-05	0.001153
2.37E-05	0.000430	6.78E-06	
23	0.000444	0.000111	0.002442
6.68E-05	0.000445	7.46E-06	
24	0.000441	0.000147	0.003363
9.06E-05	0.000394	7.24E-06	
25	0.000438	0.000177	0.003960
0.000102	0.000283	5.61E-06	
26	0.000435	0.000195	0.004214
0.000105	0.000181	3.87E-06	
27	0.000432	0.000196	0.004252
0.000106	0.000106	2.18E-06	
28	0.000429	0.000179	0.004016
0.000102	0.000107	1.48E-06	
29	0.000427	0.000149	0.003427
9.06E-05	0.000159	2.81E-06	
30	0.000424	0.000116	0.002499
6.59E-05	0.000222	5.11E-06	
31	0.000422	8.23E-05	0.001184
2.14E-05	0.000306	7.24E-06	
32	0.000420	7.41E-05	6.31E-08
4.27E-06	0.000374	7.48E-06	
33	0.000419	7.40E-05	0.001261
1.08E-05	0.000427	7.52E-06	
34	0.000416	9.25E-05	0.002691
5.91E-05	0.000442	8.23E-06	
35	0.000414	0.000132	0.003729
8.77E-05	0.000393	7.97E-06	
36	0.000411	0.000166	0.004418
0.000104	0.000285	6.26E-06	
37	0.000409	0.000188	0.004731
0.000111	0.000181	3.90E-06	
38	0.000408	0.000192	0.004843
0.000114	0.000111	2.06E-06	
39	0.000406	0.000180	0.004587
0.000114	0.000112	1.06E-06	
40	0.000404	0.000155	0.003922
0.000105	0.000174	2.27E-06	
41	0.000405	0.000125	0.002864
8.17E-05	0.000250	4.94E-06	
42	0.000405	9.79E-05	0.001357
3.70E-05	0.000350	7.58E-06	3.45E-08
43	0.000406	8.64E-05	
1.39E-05	0.000430	8.27E-06	
44	0.000407	8.31E-05	0.001444
1.48E-05	0.000512	9.68E-06	
45	0.000408	0.000110	0.002407
5.05E-05	0.000516	1.06E-05	
46	0.000409	0.000151	0.002962
6.94E-05	0.000452	1.01E-05	
47	0.000411	0.000195	0.003184
7.63E-05	0.000332	8.12E-06	
48	0.000411	0.000226	0.003124
7.60E-05	0.000210	5.36E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
144

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000410	0.000240	0.002833
7.11E-05	0.000126	2.77E-06	
50	0.000408	0.000226	0.002358
6.33E-05	0.000107	1.08E-06	
51	0.000406	0.000219	0.001744
5.34E-05	0.000130	5.65E-07	
52	0.000403	0.000198	0.001027
4.16E-05	0.000148	1.21E-06	
53	0.000401	0.000187	0.000242
2.83E-05	0.000195	2.56E-06	
54	0.000401	0.000187	2.12E-08
2.51E-05	0.000160	2.79E-06	
55	0.000321	6.14E-05	2.17E-08
1.57E-05	0.000298	3.52E-06	
56	0.000320	6.93E-05	0.000564
3.14E-05	0.000265	2.29E-06	
57	0.000318	6.93E-05	0.001139
4.99E-05	0.000195	7.70E-07	
58	0.000321	6.26E-05	0.001619
6.62E-05	0.000105	8.23E-07	
59	0.000322	5.44E-05	0.001956
7.95E-05	2.49E-05	9.08E-07	
60	0.000323	4.72E-05	0.002099
8.81E-05	4.48E-06	9.80E-07	
61	0.000323	4.14E-05	0.002002
8.89E-05	5.48E-05	8.78E-07	
62	0.000324	3.44E-05	0.001631
7.61E-05	0.000112	4.73E-07	
63	0.000325	2.45E-05	0.000957
4.11E-05	0.000170	2.52E-07	
64	0.000325	1.77E-05	3.61E-08
1.55E-05	0.000217	9.56E-07	
65	0.000325	1.72E-05	0.000778
6.08E-05	0.000241	1.92E-06	
66	0.000326	2.04E-05	0.001748
0.000102	0.000247	1.32E-06	
67	0.000326	2.18E-05	0.002507
0.000121	0.000216	6.26E-07	
68	0.000326	2.15E-05	0.003034
0.000126	0.000149	3.72E-07	
69	0.000326	2.13E-05	0.003296
0.000124	8.10E-05	3.47E-07	
70	0.000326	2.15E-05	0.003391
0.000122	6.10E-05	4.85E-07	
71	0.000326	2.18E-05	0.003212
0.000120	8.79E-05	6.65E-07	
72	0.000326	2.23E-05	0.002727
0.000109	0.000135	7.00E-07	
73	0.000326	2.01E-05	0.001952
8.46E-05	0.000189	6.56E-07	
74	0.000326	1.50E-05	0.000891
3.79E-05	0.000242	7.33E-07	
75	0.000326	1.55E-05	4.93E-08
4.52E-06	0.000272	1.12E-06	
76	0.000326	2.04E-05	0.000858
5.14E-05	0.000291	2.09E-06	
77	0.000327	2.82E-05	0.001912
9.58E-05	0.000293	1.59E-06	
78	0.000327	3.41E-05	0.002724
0.000118	0.000259	9.66E-07	
79	0.000328	3.66E-05	0.003274
0.000126	0.000184	6.45E-07	
80	0.000329	3.80E-05	0.003523
0.000126	0.000103	4.91E-07	
81	0.000329	3.88E-05	0.003557
0.000127	7.08E-05	4.72E-07	
82	0.000330	3.91E-05	0.003323
0.000127	9.58E-05	5.93E-07	
83	0.000331	3.75E-05	0.002778
0.000119	0.000142	6.45E-07	
84	0.000331	3.25E-05	0.001960
9.67E-05	0.000191	6.29E-07	
85	0.000332	2.33E-05	0.000884
5.16E-05	0.000240	7.89E-07	
86	0.000332	1.69E-05	5.53E-08
4.10E-06	0.000267	1.36E-06	
87	0.000332	1.61E-05	0.000956
3.98E-05	0.000286	2.30E-06	
88	0.000333	2.23E-05	0.002137
8.90E-05	0.000289	1.93E-06	
89	0.000333	2.68E-05	0.003056
0.000116	0.000256	1.45E-06	
90	0.000333	2.98E-05	0.003691
0.000129	0.000185	1.17E-06	
91	0.000334	3.22E-05	0.003999
0.000134	0.000104	1.03E-06	
92	0.000334	3.48E-05	0.004093
0.000139	6.93E-05	9.48E-07	
93	0.000335	3.76E-05	0.003835
0.000143	9.92E-05	7.88E-07	
94	0.000335	3.98E-05	0.003216
0.000139	0.000154	5.68E-07	
95	0.000336	3.85E-05	0.002276
0.000119	0.000214	7.16E-07	
96	0.000336	3.31E-05	0.001030
7.38E-05	0.000275	1.11E-06	
97	0.000337	2.93E-05	3.13E-08
2.44E-05	0.000312	1.50E-06	
98	0.000338	2.92E-05	0.001084
4.12E-05	0.000346	3.07E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
145

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	0.000339	3.28E-05	0.001898
7.83E-05	0.000346	2.67E-06	
100	0.000341	3.59E-05	0.002416
9.30E-05	0.000304	2.46E-06	
101	0.000342	3.98E-05	0.002659
9.45E-05	0.000224	2.41E-06	
102	0.000344	4.61E-05	0.002651
8.90E-05	0.000131	2.48E-06	
103	0.000345	5.30E-05	0.002430
7.97E-05	7.12E-05	2.62E-06	
104	0.000346	6.13E-05	0.002037
6.81E-05	8.71E-05	2.61E-06	
105	0.000348	7.09E-05	0.001513
5.49E-05	0.000111	2.05E-06	
106	0.000348	7.53E-05	0.000893
4.06E-05	0.000129	1.38E-07	
107	0.000348	6.93E-05	0.000211
2.59E-05	0.000139	1.32E-06	
108	0.000347	6.53E-05	2.33E-08
2.35E-05	0.000140	1.44E-06	
109	0.000235	4.51E-05	2.80E-08
2.66E-05	0.000153	2.01E-06	
110	0.000237	4.56E-05	0.000457
3.57E-05	0.000139	2.00E-06	
111	0.000240	9.64E-06	0.000922
4.66E-05	0.000108	1.98E-06	
112	0.000241	1.81E-05	0.001303
5.59E-05	6.23E-05	1.91E-06	
113	0.000243	2.65E-05	0.001555
6.20E-05	1.49E-05	1.69E-06	
114	0.000243	3.35E-05	0.001637
6.32E-05	1.08E-05	1.62E-06	
115	0.000242	3.68E-05	0.001517
5.72E-05	5.11E-05	2.71E-06	
116	0.000241	3.45E-05	0.001189
4.15E-05	9.15E-05	3.70E-06	
117	0.000240	2.58E-05	0.000666
1.62E-05	0.000124	3.95E-06	
118	0.000238	1.05E-05	4.24E-08
8.62E-06	0.000143	3.56E-06	
119	0.000238	1.65E-05	0.000543
3.16E-05	0.000149	3.04E-06	
120	0.000237	2.81E-05	0.001285
6.37E-05	0.000146	2.07E-06	
121	0.000236	3.51E-05	0.001920
8.42E-05	0.000126	1.29E-06	
122	0.000235	3.82E-05	0.002390
9.44E-05	8.68E-05	1.24E-06	
123	0.000234	3.91E-05	0.002650
9.61E-05	4.08E-05	1.47E-06	
124	0.000233	4.19E-05	0.002734
9.46E-05	4.26E-05	2.39E-06	
125	0.000233	4.33E-05	0.002561
8.80E-05	7.54E-05	3.73E-06	
126	0.000232	4.15E-05	0.002129
7.35E-05	0.000115	4.62E-06	
127	0.000232	3.47E-05	0.001477
4.94E-05	0.000154	5.05E-06	
128	0.000231	2.19E-05	0.000649
1.55E-05	0.000182	4.73E-06	
129	0.000231	1.01E-05	4.59E-08
5.97E-06	0.000192	4.19E-06	
130	0.000232	1.31E-05	0

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000371	0.000104	0.004386
0.000129	0.000144	3.71E-05	
200	0.000370	0.000109	0.004496
0.000133	8.89E-05	3.17E-05	
201	0.000370	0.000105	0.004244
0.000141	0.000104	3.32E-05	
202	0.000370	9.38E-05	0.003607
0.000146	0.000163	3.76E-05	
203	0.000370	7.85E-05	0.002613
0.000143	0.000229	4.29E-05	
204	0.000370	6.24E-05	0.001239
0.000117	0.000309	4.64E-05	
205	0.000371	5.16E-05	7.79E-05
7.25E-05	0.000366	5.23E-05	
206	0.000371	4.68E-05	0.001299
8.23E-05	0.000425	6.29E-05	
207	0.000373	6.01E-05	0.002186
9.87E-05	0.000432	6.38E-05	
208	0.000375	8.26E-05	0.002718
9.89E-05	0.000382	6.02E-05	
209	0.000377	0.000105	0.002944
9.42E-05	0.000284	5.50E-05	
210	0.000378	0.000126	0.002904
8.62E-05	0.000376	4.72E-05	
211	0.000380	0.000138	0.002643
7.76E-05	0.000101	4.20E-05	
212	0.000381	0.000143	0.002206
6.67E-05	9.66E-05	4.00E-05	
213	0.000381	0.000139	0.001633
5.39E-05	0.000121	4.02E-05	
214	0.000131	0.000135	0.000963
3.93E-05	0.000139	4.19E-05	
215	0.000382	0.000122	0.000229
2.15E-05	0.000149	2.86E-05	
216	0.000382	0.000120	7.48E-05
3.69E-05	0.000150	3.51E-05	
217	0.000277	5.46E-05	1.65E-05
3.56E-05	0.000223	3.63E-05	
218	0.000278	4.16E-05	0.000518
2.84E-05	0.000191	2.86E-05	
219	0.000280	2.41E-05	0.001030
4.80E-05	0.000139	2.77E-05	
220	0.000281	1.39E-05	0.001452
6.38E-05	7.44E-05	2.54E-05	
221	0.000282	1.70E-05	0.001739
7.62E-05	1.61E-05	2.28E-05	
222	0.000283	2.22E-05	0.001843
8.50E-05	1.02E-05	2.53E-05	
223	0.000283	2.61E-05	0.001726
8.78E-05	5.60E-05	3.02E-05	
224	0.000282	2.63E-05	0.001371
8.03E-05	0.000104	3.57E-05	
225	0.000282	2.12E-05	0.000779
5.57E-05	0.000146	4.14E-05	
226	0.000281	1.38E-05	4.11E-06
2.94E-05	0.000177	4.16E-05	
227	0.000281	1.54E-05	0.000633
6.75E-05	0.000188	4.32E-05	
228	0.000281	2.10E-05	0.001478
0.000102	0.000186	4.83E-05	
229	0.000280	2.33E-05	0.002176
0.000118	0.000161	4.67E-05	
230	0.000280	2.35E-05	0.002679
0.000121	0.000109	4.18E-05	
231	0.000280	2.44E-05	0.002940
0.000117	5.37E-05	3.40E-05	
232	0.000280	2.66E-05	0.003033
0.000116	5.01E-05	2.66E-05	
233	0.000280	2.88E-05	0.002853
0.000115	8.25E-05	1.95E-05	
234	0.000280	2.96E-05	0.002389
0.000107	0.000126	1.36E-05	
235	0.000280	2.69E-05	0.001675
8.80E-05	0.000172	1.09E-05	
236	0.000280	1.96E-05	0.000742
4.97E-05	0.000209	9.96E-06	
237	0.000280	1.31E-05	6.29E-06
2.57E-05	0.000226	1.00E-05	
238	0.000281	1.22E-05	0.000710
6.10E-05	0.000235	1.21E-05	
239	0.000281	1.84E-05	0.001636
9.77E-05	0.000229	1.70E-05	
240	0.000282	2.19E-05	0.002383
0.000115	0.000200	2.14E-05	
241	0.000283	2.21E-05	0.002909
0.000121	0.000140	2.53E-05	
242	0.000284	2.08E-05	0.003156
0.000120	7.30E-05	2.88E-05	
243	0.000285	1.98E-05	0.003187
0.000121	5.75E-05	3.11E-05	
244	0.000286	2.03E-05	0.002953
0.000122	9.01E-05	3.58E-05	
245	0.000286	1.97E-05	0.002432
0.000116	0.000132	4.00E-05	
246	0.000287	1.72E-05	0.001677
9.85E-05	0.000173	4.35E-05	
247	0.000288	1.41E-05	0.000731
6.09E-05	0.000205	4.24E-05	
248	0.000289	1.67E-05	5.99E-06
2.58E-05	0.000220	3.95E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000289	2.19E-05	0.000803
5.22E-05	0.000229	4.27E-05	
250	0.000290	2.79E-05	0.001849
9.23E-05	0.000223	4.47E-05	
251	0.000291	2.87E-05	0.002699
0.000114	0.000196	4.13E-05	
252	0.000291	2.56E-05	0.003304
0.000124	0.000140	3.54E-05	
253	0.000291	2.07E-05	0.003616
0.000127	7.50E-05	2.74E-05	
254	0.000292	1.55E-05	0.003692
0.000132	5.45E-05	2.18E-05	
255	0.000292	1.09E-05	0.003430
0.000138	9.42E-05	2.19E-05	
256	0.000293	7.43E-06	0.002833
0.000136	0.000145	2.56E-05	
257	0.000293	8.88E-06	0.001959
0.000120	0.000195	2.98E-05	
258	0.000293	2.05E-05	0.000854
8.21E-05	0.000237	3.13E-05	
259	0.000293	2.69E-05	1.29E-05
3.84E-05	0.000259	3.34E-05	
260	0.000293	3.77E-05	0.000901
5.68E-05	0.000276	3.87E-05	
261	0.000293	4.40E-05	0.001627
8.23E-05	0.000270	3.86E-05	
262	0.000293	4.37E-05	0.002122
9.15E-05	0.000235	3.61E-05	
263	0.000293	3.85E-05	0.002376
9.08E-05	0.000172	3.17E-05	
264	0.000294	3.10E-05	0.002399
8.46E-05	9.72E-05	2.86E-05	
265	0.000296	2.27E-05	0.002218
7.56E-05	5.55E-05	2.98E-05	
266	0.000297	1.50E-05	0.001869
6.49E-05	7.84E-05	3.20E-05	
267	0.000300	1.56E-05	0.001391
5.20E-05	0.000102	3.35E-05	
268	0.000302	3.66E-05	0.000823
3.68E-05	0.000119	3.50E-05	
269	0.000303	5.67E-05	0.000195
1.68E-05	0.000129	2.39E-05	
270	0.000303	6.05E-05	1.09E-05
2.79E-05	0.000131	2.95E-05	
271	0.000341	1.05E-05	.000000
3.91E-05	0.000510	1.77E-06	
272	0.000770	4.34E-05	.000000
2.20E-05	0.000316	6.45E-06	
273	.000000	.000000	.000000
1.56E-05	0.000375	6.93E-06	
274	0.000374	2.85E-06	.000000
5.74E-06	0.000374	7.49E-06	
275	0.000525	2.31E-05	.000000
3.19E-05	0.000429	8.27E-06	
276	0.001067	1.05E-05	.000000
2.21E-05	0.000161	2.79E-06	
277	0.000238	2.94E-05	.000000
3.22E-05	0.000299	3.52E-06	
278	0.000559	3.14E-05	.000000
1.60E-05	0.000218	9.56E-07	
279	.000000	.000000	.000000
9.38E-06	0.000272	1.12E-06	
280	0.000670	2.09E-06	.000000
5.72E-06	0.000267	1.36E-06	
281	0.000366	5.21E-06	.000000
1.11E-05	0.000312	1.50E-06	
282	0.000769	3.71E-05	.000000
9.92E-06	0.000142	1.44E-06	
283	0.000158	5.59E-06	.000000
3.42E-05	0.000156	2.01E-06	
284	0.000397	7.30E-06	.000000
2.78E-05	0.000141	3.56E-06	
285	2.11E-07	7.12E-06	.000000
1.09E-05	0.000193	4.19E-06	
286	0.000477	0.000105	.000000
-8.88E-22	0.000184	3.88E-06	
287	0.000225	4.97E-05	.000000
1.12E-21	0.000221	4.00E-06	
288	0.000493	6.90E-05	.000000
2.38E-06	0.000120	8.67E-06	

COMB DL-G1-1 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000416	-4.02E-05	-2.86E-07
-0.000165	-0.000149	-3.84E-06	
2	-0.000415	-4.38E-05	-0.002279
-0.000265	-0.000142	-2.83E-06	
3	-0.000415	-4.78E-05	-0.004378
-0.000360	-0.000123	-1.50E-06	
4	-0.000415	-5.08E-05	-0.005815
-0.000416	-9.82E-05	-1.27E-06	
5	-0.000415	-5.23E-05	-0.006456
-0.000428	-0.000115	-2.39E-06	
6	-0.000415	-5.14E-05	-0.006244
-0.000392	-0.000187	-4.64E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000416	-4.57E-05	-0.005256
-0.000316	-0.000299	-6.76E-06	
8	-0.000417	-3.21E-05	-0.003690
-0.000212	-0.000377	-7.62E-06	
9	-0.000420	-1.41E-05	-0.001820
-0.000103	-0.000392	-7.27E-06	
10	-0.000423	-6.22E-06	-6.46E-07
-7.18E-05	-0.000336	-7.29E-06	
11	-0.000424	-4.45E-06	-0.001237
-0.000132	-0.000275	-7.11E-06	
12	-0.000427	-1.35E-05	-0.003244
-0.000249	-0.000200	-5.08E-06	
13	-0.000312	-2.62E-05	-0.005199
-0.000354	-0.000149	-2.86E-06	
14	-0.000433	-3.36E-05	-0.006776
-0.000432	-0.000105	-1.60E-06	
15	-0.000435	-3.69E-05	-0.007673
-0.000471	-0.000110	-2.10E-06	
16	-0.000436	-3.61E-05	-0.007734
-0.000463	-0.000174	-3.58E-06	
17	-0.000437	-3.16E-05	-0.006943
-0.000408	-0.000268	-5.13E-06	
18	-0.000436	-2.22E-05	-0.005426
-0.000317	-0.000375	-6.75E-06	
19	-0.000436	-9.14E-06	-0.003466
-0.000205	-0.000427	-7.04E-06	
20	-0.000436	-5.52E-06	-0.001363
-9.04E-05	-0.000415	-6.48E-06	
21	-0.000436	-6.56E-06	-6.58E-07
-6.20E-05	-0.000363	-6.71E-06	
22	-0.000434	-9.33E-06	-0.001422
-0.000114	-0.000299	-6.81E-06	
23	-0.000433	-2.86E-05	-0.003653
-0.000232	-0.000218	-4.95E-06	
24	-0.000431	-4.69E-05	-0.005786
-0.000343	-0.000161	-2.79E-06	
25	-0.000429	-5.63E-05	-0.007500
-0.000430	-0.000110	-1.61E-06	
26	-0.000428	-5.95E-05	-0.008454
-0.000479	-0.000107	-1.95E-06	
27	-0.000426	-6.07E-05	-0.008481
-0.000479	-0.000177	-3.73E-06	
28	-0.000425	-5.81E-05	-0.007574
-0.000429	-0.000278	-5.42E-06	
29	-0.000424	-4.90E-05	-0.005886
-0.000341	-0.000394	-7.19E-06	
30	-0.000423	-3.03E-05	-0.003750
-0.000230	-0.000451	-7.61E-06	
31	-0.000422	-9.41E-06	-0.001478
-0.000111	-0.000443	-7.26E-06	
32	-0.000421	-6.51E-06	-6.56E-07
-6.04E-05	-0.000394	-7.79E-06	
33	-0.000420	-7.23E-06	-0.001404
-9.38E-05	-0.000423	-8.11E-06	
34	-0.000418	-1.73E-05	-0.003579
-0.000211	-0.000247	-6.29E-06	
35	-0.000417	-3.99E-05	-0.005633
-0.000324	-0.000189	-4.08E-06	
36	-0.000415	-5.63E-05	-0.007255
-0.000416	-0.000133	-2.82E-06	
37	-0.000414	-6.77E-05	-0.008122
-0.000473	-0.000116	-2.41E-06	
38	-0.000414	-7.48E-05	-0.008082
-0.000480	-0.000170	-3.56E-06	
39	-0.000414	-7.68E-05	-0.007147
-0.000439	-0.000258	-4.88E-06	
40	-0.000415	-7.17E-05	-0.005486
-0.000357	-0.000365	-6.15E-06	
41	-0.000416	-5.41E-05	-0.003435
-0.000250	-0.000415	-6.33E-06	
42	-0.000417	-2.54E-05	-0.001320
-0.000132	-0.000398	-5.74E-06	
43	-0.000418	-1.01E-05	-6.81E-07
-7.70E-05	-0.000340	-4.75E-06	
44	-0.000419	-6.76E-06	-0.002351
-0.000125	-0.000240	-7.25E-06	
45	-0.000419	-5.35E-06	-0.004864
-0.000250	-0.000154	-5.01E-06	
46	-0.000419	-8.94E-06	-0.007152
-0.000375	-8.20E-05	-2.61E-06	
47	-0.000419	-1.71E-05	-0.008897
-0.000478	-2.14E-05	-1.13E-06	
48	-0.000418	-2.04E-05	-0.009851
-0.000546	-2.13E-05	-7.73E-07	
49	-0.000417	-2.18E-05	-0.009863
-0.000570	-0.000108	-1.89E-06	
50	-0.000417	-2.25E-05	-0.008898
-0.000548	-0.000415	-7.75E-06	
51	-0.000416	-2.30E-05	-0.007017
-0.000480	-0.000413	-5.05E-06	
52	-0.000416	-2.40E-05	-0.004350
-0.000367	-0.000567	-4.38E-06	
53	-0.000416	-2.61E-05	-0.001056
-0.000214	-0.000680	-2.42E-06	
54	-0.000416	-2.72E-05	-3.09E-07
-0.000175	-0.000692	-2.11E-06	
55	-0.000310	-2.97E-05	-2.96E-08
-6.02E-05	-0.000127	-8.66E-07	
56	-0.000310	-2.64E-05	-0.001322
-0.000163	-0.000120	-6.16E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000311	-2.33E-05	-0.002593
-0.000272	-0.000103	-9.69E-07	
58	-0.000311	-2.03E-05	-0.003504
-0.000341	-7.72E-05	-1.75E-06	
59	-0.000311	-1.72E-05	-0.003942
-0.000362	-5.98E-05	-1.73E-06	
60	-0.000312	-1.41E-05	-0.003856
-0.000335	-0.000108	-1.56E-06	
61	-0.000312	-1.16E-05	-0.003283
-0.000268	-0.000185	-1.60E-06	
62	-0.000312	-9.81E-06	-0.002340
-0.000173	-0.000234	-1.91E-06	
63	-0.000312	-8.87E-06	-0.001187
-7.13E-05	-0.000248	-2.06E-06	
64	-0.000312	-7.78E-06	-9.04E-08
-2.47E-05	-0.000232	-1.30E-06	
65	-0.000313	-4.98E-06	-0.000811
-8.21E-05	-0.000210	-8.20E-07	
66	-0.000313	-4.21E-06	-0.002082
-0.000187	-0.000169	-7.11E-07	
67	-0.000313	-5.25E-06	-0.003320
-0.000289	-0.000131	-7.56E-07	
68	-0.000313	-6.69E-06	-0.004333
-0.000367	-9.13E-05	-7.12E-07	
69	-0.000313	-7.75E-06	-0.004921
-0.000407	-6.92E-05	-5.05E-07	
70	-0.000312	-7.92E-06	-0.004978
-0.000402	-0.000100	-3.76E-07	
71	-0.000312	-7.09E-06	-0.004488
-0.000352	-0.000171	-4.25E-07	
72	-0.000312	-5.45E-06	-0.003531
-0.000267	-0.000241	-7.06E-07	
73	-0.000311	-3.27E-06	-0.002286
-0.000162	-0.000275	-1.33E-06	
74	-0.000311	-2.45E-06	-0.000927
-5.60E-05	-0.000275	-1.86E-06	
75	-0.000311	-5.40E-06	-9.60E-08
-1.29E-05	-0.000259	-9.56E-07	
76	-0.000311	-6.78E-06	-0.000984
-7.28E-05	-0.000233	-6.31E-07	
77	-0.000311	-9.21E-06	-0.002462
-0.000181	-0.000187	-6.26E-07	
78	-0.000311	-1.22E-05	-0.003862
-0.000286	-0.000143	-7.30E-07	
79	-0.000311	-1.51E-05	-0.004991
-0.000371	-9.84E-05	-7.35E-07	
80	-0.000311	-1.72E-05	-0.005623
-0.000418	-7.92E-05	-7.27E-07	
81	-0.000312	-1.80E-05	-0.005647
-0.000418	-9.92E-05	-3.61E-07	
82	-0.000312	-1.71E-05	-0.005055
-0.000372	-0.000180	-4.33E-07	
83	-0.000312	-1.48E-05	-0.003949
-0.000287	-0.000258	-8.30E-07	
84	-0.000312	-1.20E-05	-0.002545
-0.000181	-0.000298	-1.65E-06	
85	-0.000312	-9.22E-06	-0.001031
-7.29E-05	-0.000303	-2.35E-06	
86	-0.000312	-6.61E-06	-9.53E-08
-1.23E-05	-0.000288	-1.57E-06	
87	-0.000312	-4.17E-06	-0.000961
-5.79E-05	-0.000263	-1.34E-06	
88	-0.000312	-8.46E-06	-0.002383
-0.000166	-0.000216	-1.49E-06	
89	-0.000312	-1.40E-05	-0.003708
-0.000273	-0.000170	-1.71E-06	
90	-0.000312	-1.93E-05	-0.004751
-0.000361	-0.000121	-1.64E-06	
91	-0.000312	-2.40E-05	-0.005304
-0.000412	-8.27E-05	-1.31E-06	
92	-0.000312	-2.77E-05	-0.005269
-0.000417	-9.21E-05	-8.91E-07	
93	-0.000312	-2.99E-05	-0.004656
-0.000375	-0.000161	-4.95E-07	
94	-0.000312	-3.03E-05	-0.003579
-0.000293	-0.000233	-4.24E-07	
95	-0.000312	-2.89E-05	-0.002258
-0.000190	-0.000266	-1.19E-06	
96	-0.000313	-2.69E-05	-0.000890
-8.35E-05	-0.000263	-1.96E-06	
97	-0.000313	-2.40E-05	-1.03E-07
-2.75E-05	-0.000242	-8.12E-07	
98	-0.000313	-1.38E-05	-0.001627
-7.93E-05	-0.000197	-6.15E-07	
99	-0.000314	-7.49E-06	-0.003297
-0.000203	-0.000141	-6.94E-07	
100	-0.000314	-5.73E-06	-0.004802
-0.000325	-8.44E-05	-1.20E-06	
101	-0.000315	-5.12E-06	-0.005941
-0.000425	-3.15E-05	-1.39E-06	
102	-0.000316	-4.64E-06	-0.006542
-0.000488	-6.68E-06	-1.38E-06	
103	-0.000316	-4.25E-06	-0.006508
-0.000508	-5.03E-05	-1.10E-06	
104	-0.000317	-4.62E-06	-0.005821
-0.000478	-0.000156	-1.23E-06	
105	-0.000317	-7.70E-06	-0.004537
-0.000400	-0.000270	-1.15E-06	
106	-0.000317	-1.10E-05	-0.002769
-0.000275	-0.000368	-1.46E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	-0.000317	-1.51E-05	-0.000663
-0.000116	-0.000433	-4.40E-06	
108	-0.000317	-1.64E-05	-4.28E-08
-8.30E-05	-0.000440	-4.91E-06	
109	-0.000224	-1.81E-05	-5.06E-09
-6.61E-05	-0.000102	-6.14E-06	
110	-0.000225	-9.91E-06	-0.000697
-0.000114	-9.67E-05	-6.08E-06	
111	-0.000226	-1.94E-05	-0.001390
-0.000165	-8.24E-05	-5.56E-06	
112	-0.000227	-4.27E-05	-0.001913
-0.000199	-6.00E-05	-4.18E-06	
113	-0.000228	-5.76E-05	-0.002195
-0.000209	-3.20E-05	-2.11E-06	
114	-0.000228	-6.12E-05	-0.002195
-0.000193	-4.99E-05	-4.02E-07	
115	-0.000228	-5.37E-05	-0.001919
-0.000156	-9.67E-05	-1.48E-07	
116	-0.000228	-3.84E-05	-0.001415
-0.000104	-0.000131	-1.26E-06	
117	-0.000227	-1.97E-05	-0.000751
-4.94E-05	-0.000151	-2.71E-06	
118	-0.000226	-3.64E-06	-6.91E-09
-2.85E-05	-0.000157	-3.91E-06	
119	-0.000224	-1.24E-05	-0.000516
-5.92E-05	-0.000155	-4.57E-06	
120	-0.000222	-3.55E-05	-0.001280
-0.000117	-0.000138	-5.01E-06	
121	-0.000220	-6.00E-05	-0.002007
-0.000173	-0.000113	-4.93E-06	
122	-0.000218	-8.10E-05	-0.002601
-0.000218	-8.07E-05	-4.09E-06	
123	-0.000217	-9.37E-05	-0.002956
-0.000241	-4.63E-05	-2.62E-06	
124	-0.000216	-9.53E-05	-0.003008
-0.000238	-5.08E-05	-1.35E-06	
125	-0.000216	-8.54E-05	-0.002743
-0.000209	-9.53E-05	-9.69E-07	
126	-0.000216	-6.63E-05	-0.002198
-0.000161	-0.000140	-1.03E-06	
127	-0.000216	-4.20E-05	-0.001464
-0.000102	-0.000167	-2.07E-06	
128	-0.000216	-1.86E-05	-0.000619
-4.24E-05	-0.000179	-3.32E-06	
129	-0.000216	-4.50E-06	-8.20E-09
-2.50E-05	-0.000181	-4.07E-06	
130	-0.000218	-8.51E-06	-0.000673
-5.36E-05	-0.000175	-4.01E-06	
131	-0.000219	-3.20E-05	-0.001628
-0.000114	-0.000153	-5.06E-06	
132	-0.000220	-5.59E-05	-0.002501
-0.000174	-0.000123	-4.70E-06	
133	-0.000221	-7.54E-05	-0.003194
-0.000222	-8.61E-05	-3.87E-06	
134	-0.000222	-8.66E-05	-0.003585
-0.000250	-4.96E-05	-2.51E-06	
135	-0.000224	-8.49E-05	-0.003605
-0.000250	-5.25E-05	-1.52E-06	
136	-0.000225	-7.24E-05	-0.003250
-0.000222	-0.000108	-1.30E-06	
137	-0.000226	-5.16E-05	-0.002575
-0.000174	-0.000140	-1.42E-06	
138	-0.000227	-2.75E-05	-0.001698
-0.000114	-0.000190	-2.29E-06	
139	-0.000228	-6.18E-06	-0.000712
-5.24E-05	-0.000205	-3.38E-06	
140	-0.000229	-9.74E-06	-5.81E-09
-2.42E-05	-0.000206	-4.03E-06	
141	-0.000229	-2.33E-05	-0.000647
-4.43E-05	-0.000201	-4.54E-06	
142	-0.000230	-4.59E-05	-0.001547
-0.000105	-0.000178	-4.80E-06	
143	-0.000231	-6.81E-05	-0.002349
-0.000165	-0.000147	-4.27E-06	
144	-0.000232	-8.51E-05	-0.002964
-0.000215	-0.000105	-3.43E-06	
145	-0.000233	-9.23E-05	-0.003282
-0.000246	-6.13E-05	-2.15E-06	
146	-0.000234	-8.76E-05	-0.003250
-0.000248	-4.70E-05	-1.62E-06	
147	-0.000234	-7.16E-05	-0.002880
-0.000224	-9.51E-05	-4.49E-06	
148	-0.000233	-4.79E-05	-0.002236
-0.000177	-0.000139	-1.71E-06	
149	-0.000232	-2.21E-05	-0.001440
-0.000120	-0.000163	-2.44E-06	
150	-0.000231	-1.52E-05	-0.000588
-6.06E-05	-0.000169	-3.45E-06	
151	-0.000231	-2.69E-05	-8.89E-09
-3.30E-05	-0.000166	-4.15E-06	
152	-0.000230	-4.89E-05	-0.001099
-6.88E-05	-0.000149	-4.92E-06	
153	-0.000230	-7.34E-05	-0.002155
-0.000140	-0.000118	-4.99E-06	
154	-0.000231	-9.56E-05	-0.003068
-0.000212	-7.83E-05	-4.38E-06	
155	-0.000232	-0.000110	-0.003734
-0.000272	-3.57E-05	-3.39E-06	
156	-0.000233	-0.000113	-0.004060
-0.000312	-5.98E-06	-2.39E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000234	-0.000103	-0.003991
-0.000324	-2.68E-05	-2.25E-06	
158	-0.000235	-7.87E-05	-0.003524
-0.000307	-0.000100	-2.25E-06	
159	-0.000236	-4.44E-05	-0.002708
-0.000260	-0.000167	-2.18E-06	
160	-0.000236	-9.50E-05	-0.001627
-0.000189	-0.000219	-2.12E-06	
161	-0.000237	-1.26E-05	-0.000385
-0.000102	-0.000249	-2.10E-06	
162	-0.000237	-1.43E-05	-2.71E-09
-8.28E-05	-0.000252	-2.10E-06	
163	-0.000363	-3.37E-05	-1.79E-05
-3.96E-06	-0.000142	-3.47E-05	
164	-0.000363	-3.46E-05	-0.001716
-0.000205	-0.000133	-2.82E-05	
165	-0.000363	-3.55E-05	-0.003408
-0.000373	-0.000115	-2.94E-05	
166	-0.000363	-3.59E-05	-0.004589
-0.000459	-8.82E-05	-3.00E-05	
167	-0.000363	-3.53E-05	-0.005130
-0.000477	-9.08E-05	-3.39E-05	
168	-0.000363	-3.33E-05	-0.004988
-0.000440	-0.000152	-4.26E-05	
169	-0.000363	-2.89E-05	-0.004210
-0.000353	-0.000246	-5.08E-05	
170	-0.000364	-2.11E-05	-0.002962
-0.000229	-0.000306	-5.70E-05	
171	-0.000365	-1.22E-05	-0.001459
-8.39E-05	-0.000317	-6.02E-05	
172	-0.000367	-5.94E-06	-2.70E-06
-2.07E-06	-0.000280	-5.50E-05	
173	-0.000369	-3.94E-06	-0.000982
-8.50E-05	-0.000239	-5.31E-05	
174	-0.000370	-9.60E-06	-0.002609
-0.000238	-0.000181	-5.42E-05	
175	-0.000372	-1.66E-05	-0.004199
-0.000374	-0.000139	-5.08E-05	
176	-0.000373	-1.99E-05	-0.005491
-0.000472	-9.68E-05	-4.70E-05	
177	-0.000374	-2.08E-05	-0.006234
-0.000517	-8.81E-05	-4.22E-05	
178	-0.000374	-2.00E-05	-0.006293
-0.000510	-0.000138	-3.82E-05	
179	-0.000373	-1.67E-05	-0.005654
-0.000453	-0.000222	-3.48E-05	
180	-0.000373	-1.13E-05	-0.004420
-0.000346	-0.000309	-3.14E-05	
181	-0.000372	-5.89E-06	-0.002824
-0.000207	-0.000350	-2.69E-05	
182	-0.000371	-2.96E-06	-0.001106
-5.71E-05	-0.000341	-1.91E-05	
183	-0.000371	-4.13E-06	-5.34E-06
-4.43E-06	-0.000309	-1.37E-05	
184	-0.000371	-7.77E-06	-0.001163
-7.54E-05	-0.000266	-1.26E-05	
185	-0.000371	-1.98E-05	-0.003006
-0.000228	-0.000202	-1.54E-05	
186	-0.000370	-3.00E-05	-0.004766
-0.000369	-0.000152	-1.98E-05	
187	-0.000370	-3.62E-05	-0.006185
-0.000475	-0.000104	-2.59E-05	
188	-0.000369	-3.92E-05	-0.006976
-0.000527	-8.89E-05	-3.40E-05	
189	-0.000369	-4.05E-05	-0.007002
-0.000527	-0.000137	-4.28E-05	
190	-0.000368	-3.88E-05	-0.006254
-0.000475	-5.21E-05	-4.70E-05	
191	-0.000368	-3.32E-05	-0.004861
-0.000369	-0.000325	-5.99E-05	
192	-0.000367	-2.28E-05	-0.003098
-0.000229	-0.000372	-6.28E-05	
193	-0.000367	-9.07E-06	-0.001217
-7.58E-05	-0.000370	-5.72E-05	
194	-0.000366	-4.77E-06	-4.59E-06
-4.66E-06	-0.000341	-4.98E-05	
195	-0.000366	-4.74E-06	-0.001141
-6.00E-05	-0.000299	-4.92E-05	
196	-0.000365	-1.11E-05	-0.002929
-0.000212	-0.000232	-4.60E-05	
197	-0.000364	-2.42E-05	-0.004612
-0.000354	-0.000180	-3.99E-05	
198	-0.000363	-3.65E-05	-0.005942
-0.000463	-0.000127	-3.37E-05	
199	-0.000363	-4.59E-05	-0.006650
-0.000521	-9.89E-05	-2.72E-05	
200	-0.000362	-5.22E-05	-0.006613
-0.000527	-0.000129	-2.57E-05	
201	-0.000362	-5.48E-05	-0.005839
-0.000480	-0.000205	-3.03E-05	
202	-0.000362	-5.25E-05	-0.004472
-0.000379	-0.000296	-3.59E-05	
203	-0.000363	-4.38E-05	-0.002793
-0.000239	-0.000338	-3.92E-05	
204	-0.000363	-2.83E-05	-0.001064
-8.52E-05	-0.000329	-3.51E-05	
205	-0.000364	-1.36E-05	-1.32E-05
-9.93E-07	-0.000294	-3.23E-05	
206	-0.000365	-5.75E-06	-0.001935
-9.04E-05	-0.000224	-3.06E-05	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000366	-4.36E-06	-0.004020
-0.000257	-0.000150	-2.70E-05	
208	-0.000366	-3.52E-06	-0.005913
-0.000407	-8.38E-05	-2.49E-05	
209	-0.000367	-3.40E-06	-0.007357
-0.000525	-2.63E-05	-2.60E-05	
210	-0.000367	-5.61E-06	-0.008132
-0.000599	-2.71E-05	-2.71E-05	
211	-0.000367	-8.69E-06	-0.008123
-0.000625	-7.33E-05	-2.99E-05	
212	-0.000367	-1.15E-05	-0.007296
-0.000597	-0.000193	-3.64E-05	
213	-0.000367	-1.42E-05	-0.005709
-0.000507	-0.000336	-4.46E-05	
214	-0.000367	-1.70E-05	-0.003488
-0.000349	-0.000467	-5.55E-05	
215	-0.000368	-2.00E-05	-0.000791
-9.73E-05	-0.000560	-4.25E-05	
216	-0.000368	-2.09E-05	-1.24E-05
-7.52E-06	-0.000578	-5.16E-05	
217	-0.000266	-2.47E-05	-2.85E-05
-5.32E-06	-0.000115	-2.15E-05	
218	-0.000267	-1.85E-05	-0.000976
-0.000120	-0.000108	-2.08E-05	
219	-0.000268	-1.22E-05	-0.001891
-0.000229	-9.12E-05	-2.20E-05	
220	-0.000269	-1.11E-05	-0.002564
-0.000295	-6.68E-05	-2.25E-05	
221	-0.000269	-2.13E-05	-0.002905
-0.000313	-4.32E-05	-2.36E-05	
222	-0.000270	-2.58E-05	-0.002869
-0.000289	-7.66E-05	-2.92E-05	
223	-0.000270	-2.36E-05	-0.002474
-0.000228	-0.000135	-3.55E-05	
224	-0.000270	-1.68E-05	-0.001796
-0.000145	-0.000173	-4.02E-05	
225	-0.000269	-8.66E-06	-0.000938
-5.70E-05	-0.000190	-4.32E-05	
226	-0.000269	-4.83E-06	-1.62E-05
-2.21E-06	-0.000187	-4.10E-05	
227	-0.000268	-6.36E-06	-0.000648
-5.72E-05	-0.000276	-4.11E-05	
228	-0.000267	-1.71E-05	-0.001617
-0.000149	-0.000151	-4.32E-05	
229	-0.000266	-3.08E-05	-0.002549
-0.000240	-0.000122	-4.03E-05	
230	-0.000265	-4.38E-05	-0.003314
-0.000313	-8.57E-05	-3.67E-05	
231	-0.000264	-5.20E-05	-0.003763
-0.000349	-5.49E-05	-3.23E-05	
232	-0.000264	-5.36E-05	-0.003817
-0.000346	-7.09E-05	-2.88E-05	
233	-0.000264	-4.80E-05	-0.003461
-0.000302	-0.000127	-2.42E-05	
234	-0.000264	-3.68E-05	-0.002749
-0.000226	-0.000182	-1.97E-05	
235	-0.000264	-2.32E-05	-0.001809
-0.000132	-0.000210	-1.53E-05	
236	-0.000265	-1.06E-05	-0.000756
-4.12E-05	-0.000219	-1.08E-05	
237	-0.000186	-4.32E-05	-1.86E-05
-4.89E-06	-0.000213	-9.16E-06	
238	-0.000265	-3.43E-06	-0.000812
-5.43E-05	-0.000199	-9.45E-06	
239	-0.000266	-1.20E-05	-0.001980
-0.000147	-0.000169	-1.09E-05	
240	-0.000266	-2.53E-05	-0.003066
-0.000242	-0.000133	-1.29E-05	
241	-0.000267	-3.68E-05	-0.003937
-0.000319	-9.24E-05	-1.91E-05	
242	-0.000267	-4.30E-05	-0.004425
-0.000360	-5.77E-05	-2.64E-05	
243	-0.000268	-4.23E-05	-0.004446
-0.000360	-6.96E-05	-3.36E-05	
244	-0.000268	-3.48E-05	-0.003996
-0.000319	-0.000136	-4.27E-05	
245	-0.000269	-2.27E-05	-0.003145
-0.000243	-0.000200	-4.91E-05	
246	-0.000269	-1.02E-05	-0.002055
-0.000148	-0.000234	-5.21E-05	
247	-0.000270	-5.76E-06	-0.000853
-5.45E-05	-0.000246	-4.85E-05	
248	-0.000270	-7.59E-06	-1.85E-05
-5.56E-06	-0.000241	-4.40E-05	
249	-0.000270	-1.28E-05	-0.000788
-4.35E-05	-0.000228	-4.63E-05	
250	-0.000271	-2.47E-05	-0.001900
-0.000136	-0.000197	-4.57E-05	
251	-0.000272	-3.72E-05	-0.002913
-0.000232	-0.000159	-4.04E-05	
252	-0.000272	-4.66E-05	-0.003702
-0.000311	-0.000114	-3.46E-05	
253	-0.000273	-4.99E-05	-0.004115
-0.000355	-7.00E-05	-2.82E-05	
254	-0.000273	-4.55E-05	-0.004081
-0.000358	-6.20E-05	-2.45E-05	
255	-0.000273	-3.42E-05	-0.003613
-0.000320	-0.000119	-2.58E-05	
256	-0.000272	-1.88E-05	-0.002793
-0.000246	-0.000177	-2.94E-05	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000272	-1.33E-05	-0.001785
-0.000152	-0.000204	-3.16E-05	
258	-0.000272	-1.76E-05	-0.000724
-5.93E-05	-0.000209	-2.90E-05	
259	-0.000272	-2.28E-05	-3.51E-05
-3.39E-06	-0.000200	-2.88E-05	
260	-0.000271	-3.21E-05	-0.001340
-6.48E-05	-0.000172	-3.47E-05	
261	-0.000272	-4.30E-05	-0.002649
-0.000174	-0.000132	-2.82E-05	
262	-0.000272	-5.24E-05	-0.003806
-0.000282	-8.43E-05	-2.56E-05	
263	-0.000273	-5.65E-05	-0.004669
-0.000372	-3.63E-05	-2.40E-05	
264	-0.000274	-5.32E-05	-0.005109
-0.000431	-6.02E-06	-2.58E-05	
265	-0.000274	-4.18E-05	-0.005055
-0.000449	-3.18E-05	-3.31E-05	
266	-0.000275	-2.29E-05	-0.004499
-0.000423	-0.000118	-4.16E-05	
267	-0.000276	-6.43E-06	-0.003490
-0.000348	-0.000206	-4.73E-05	
268	-0.000276	-8.29E-06	-0.002130
-0.000228	-0.000278	-5.63E-05	
269	-0.000276	-1.21E-05	-0.000534
-5.97E-05	-0.000335	-3.88E-05	
270	-0.000276	-1.36E-05	-3.55E-05
-3.44E-06	-0.000349	-4.84E-05	
271	-0.000254	-5.47E-05	.000000
-0.000159	-0.000147	-3.84E-06	.000000
272	-0.000779	-4.28E-05	.000000
-8.34E-05	-0.000330	-7.29E-06	.000000
273	.000000	.000000	.000000
-6.95E-05	-0.000360	-6.71E-06	.000000
274	-0.000796	-3.12E-06	.000000
-6.22E-05	-0.000394	-7.79E-06	.000000
275	-0.000660	-1.83E-05	.000000
-9.12E-05	-0.000335	-6.25E-06	.000000
276	-0.000548	-5.40E-06	.000000
-0.000162	-0.000696	-2.11E-06	.000000
277	-0.000377	-1.85E-05	.000000
-4.87E-05	-0.000124	-8.66E-07	.000000
278	-0.000565	-3.11E-05	.000000
-2.60E-05	-0.000232	-1.30E-06	.000000
279	.000000	.000000	.000000
-1.56E-05	-0.000258	-9.56E-07	.000000
280	-0.000584	-2.40E-06	.000000
-1.42E-05	-0.000288	-1.57E-06	.000000
281	-0.000435	-9.75E-06	.000000
-1.74E-05	-0.000242	-8.12E-07	.000000
282	-0.000434	-2.09E-05	.000000
-4.06E-05	-0.000445	-4.91E-06	.000000
283	-0.000182	-8.38E-06	.000000
-5.77E-05	-9.66E-05	-6.14E-06	.000000
284	-0.000394	-2.90E-05	.000000
-5.20E-05	-0.000146	-1.47E-06	.000000
285	-7.20E-07	-2.44E-05	.000000
-2.86E-05	-0.000180	-4.07E-06	.000000
286	-0.000408	-0.000112	.000000
-8.78E-06	-0.000207	-4.03E-06	.000000
287	-0.000280	-8.77E-05	.000000
-1.92E-05	-0.000169	-1.56E-06	.000000
288	-0.000331	-6.01E-05	.000000
-3.91E-05	-0.000262	-2.10E-06	

COMB DL-G1-2 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000739	0.000215	4.46E-08
8.07E-05	0.000834	1.04E-05	
2	0.000736	0.000233	0.001174
9.91E-05	0.000748	9.17E-06	
3	0.000733	0.000262	0.002373
0.000114	0.000555	6.79E-06	
11	0.000749	8.46E-05	0.003381
0.000124	0.000323	3.72E-06	
5	0.000731	0.000284	0.004111
0.000132	0.000118	1.51E-06	
6	0.000732	0.000263	0.004465
0.000139	6.86E-06	8.78E-07	
7	0.000735	0.000222	0.004338
0.000138	8.92E-05	2.44E-06	
8	0.000739	0.000165	0.003630
0.000115	0.000215	4.97E-06	
9	0.000743	0.000110	0.002218
6.44E-05	0.000363	7.78E-06	
10	0.000747	8.43E-05	5.96E-08
4.75E-05	0.000529	9.48E-06	
11	0.000749	8.46E-05	0.001804
8.94E-05	0.000624	1.18E-05	
12	0.000752	0.000114	0.003875
0.000144	0.000658	1.25E-05	
13	0.000754	0.000158	0.005396
0.000170	0.000583	1.07E-05	
14	0.000756	0.000196	0.006409
0.000178	0.000415	7.78E-06	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
15	0.000757	0.000219	0.006891
0.000175	0.000259	5.17E-06	
16	0.000758	0.000219	0.007066
0.000175	0.000154	3.07E-05	
17	0.000759	0.000196	0.006743
0.000172	0.000170	2.19E-06	
18	0.000760	0.000153	0.005812
0.000158	0.000264	3.61E-06	
19	0.000760	0.000101	0.004263
0.000120	0.000381	6.13E-06	
20	0.000740	7.25E-05	0.002020
5.43E-05	0.000525	8.74E-06	
21	0.000760	7.65E-05	9.39E-08
3.66E-05	0.000633	1.01E-05	
22	0.000757	9.32E-05	0.001959
7.32E-05	0.000719	1.26E-05	
23	0.000753	0.000147	0.004192
0.000135	0.000742	1.33E-05	
24	0.000750	0.000206	0.005812
0.000167	0.000657	1.15E-05	
25	0.000746	0.000253	0.006871
0.000179	0.000472	8.37E-06	
26	0.000743	0.000279	0.007329
0.000178	0.000295	5.61E-06	
27	0.000740	0.000280	0.007396
0.000179	0.000177	3.18E-06	
28	0.000738	0.000256	0.006971
0.000179	0.000188	2.21E-06	
29	0.000735	0.000210	0.005925
0.000167	0.000281	3.72E-06	
30	0.000732	0.000152	0.004292
0.000134	0.000388	6.32E-06	
31	0.000729	9.50E-05	0.002013
7.03E-05	0.000525	9.18E-06	
32	0.000727	7.62E-05	1.06E-07
3.46E-05	0.000629	1.09E-05	
33	0.000725	7.58E-05	0.002151
5.74E-05	0.000709	1.36E-05	
34	0.000723	0.000115	0.004632
0.000127	0.000727	1.43E-05	
35	0.000720	0.000178	0.006460
0.000166	0.000643	1.26E-05	
36	0.000718	0.000231	0.007681
0.000183	0.000461	9.35E-06	
37	0.000716	0.000264	0.008240
0.000188	0.000285	5.66E-06	
38	0.000714	0.000272	0.008436
0.000191	0.000179	2.95E-06	
39	0.000713	0.000255	0.007972
0.000195	0.000198	1.50E-06	
40	0.000712	0.000217	0.006789
0.000187	0.000308	2.87E-06	
41	0.000712	0.000169	0.004926
0.000157	0.000438	6.00E-06	
42	0.000712	0.000122	0.002313
9.58E-05	0.000600	9.54E-06	
43	0.000714	9.66E-05	5.81E-08
5.55E-05	0.000723	1.19E-05	
44	0.000716	8.92E-05	0.002461
7.20E-05	0.000843	1.73E-05	
45	0.000719	0.000133	0.004143
0.000119	0.000842	1.77E-05	
46	0.000723	0.000202	0.005134
0.000139	0.000728	1.56E-05	
47	0.000460	0.000269	0.005543
0.000138	0.000523	1.22E-05	
48	0.000727	0.000316	0.005455
0.000130	0.000318	8.16E-06	
49	0.000726	0.000339	0.004957
0.000121	0.000192	4.35E-06	
50	0.000724	0.000337	0.004132
0.000110	0.000274	1.60E-06	
51	0.000720	0.000313	0.003058
0.000102	0.000228	5.69E-07	
52	0.000716	0.000277	0.001802
8.99E-05	0.000260	8.02E-07	
53	0.000712	0.000246	0.000424
6.72E-05	0.000280	1.90E-06	
54	0.000711	0.000241	3.56E-08
6.08E-05	0.000282	2.09E-06	
55	0.000590	0.000137	2.76E-08
2.78E-05	0.000571	3.75E-06	
56	0.000591	0.000128	0.001011
5.12E-05	0.000508	2.37E-06	
57	0.000591	0.000121	0.002042
7.80E-05	0.000374	1.11E-06	
58	0.000592	0.000111	0.002902
0.000101	0.000208	1.17E-06	
59	0.000593	9.92E-05	0.003505
0.000119	6.02E-05	1.24E-06	
60	0.000594	8.69E-05	0.003764
0.000129	6.27E-06	1.42E-05	
61	0.000595	7.52E-05	0.003596
0.000127	9.34E-05	1.76E-06	
62	0.000596	6.48E-05	0.002940
0.000105	0.000196	2.37E-06	
63	0.000597	5.98E-05	0.001742
5.12E-05	0.000302	2.93E-06	4.84E-08
64	0.000598	5.70E-05	
2.53E-05	0.000402	1.99E-06	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	0.000598	4.94E-05	0.001417
8.81E-05	0.000454	2.49E-06	
66	0.000599	4.17E-05	0.003153
0.000148	0.000467	2.12E-06	
67	0.000600	3.96E-05	0.004503
0.000176	0.000409	1.57E-06	
68	0.000600	4.05E-05	0.005442
0.000185	0.000285	1.14E-06	
69	0.000600	4.13E-05	0.005910
0.000182	0.000162	9.14E-07	
70	0.000600	4.10E-05	0.006081
0.000180	0.000113	8.95E-07	
71	0.000600	3.92E-05	0.005763
0.000174	0.000155	1.15E-06	
72	0.000600	3.74E-05	0.004900
0.000156	0.000239	1.84E-06	
73	0.000599	3.81E-05	0.003521
0.000117	0.000335	2.87E-06	
74	0.000599	4.24E-05	0.001621
4.78E-05	0.000435	3.46E-06	
75	0.000599	4.98E-05	7.16E-08
7.22E-06	0.000499	2.42E-06	
76	0.000599	5.33E-05	0.001562
7.15E-05	0.000544	2.87E-06	
77	0.000599	5.72E-05	0.003449
0.000137	0.000549	2.61E-06	
78	0.000599	6.48E-05	0.004893
0.000170	0.000483	2.18E-06	
79	0.000599	7.16E-05	0.005874
0.000184	0.000344	1.64E-06	
80	0.000600	7.66E-05	0.006318
0.000185	0.000198	1.19E-06	
81	0.000599	7.82E-05	0.006378
0.000186	0.000132	9.02E-07	
82	0.000600	7.63E-05	0.005962
0.000185	0.000171	1.00E-06	
83	0.000601	7.10E-05	0.004992
0.000172	0.000253	1.75E-06	
84	0.000601	6.34E-05	0.003535
0.000137	0.000340	2.89E-06	
85	0.000601	5.77E-05	0.001608
7.11E-05	0.000433	3.63E-06	
86	0.000601	5.19E-05	8.33E-08
5.97E-06	0.000492	2.88E-06	
87	0.000601	4.42E-05	0.001737
5.09E-05	0.000534	3.29E-06	
88	0.000601	4.19E-05	0.003852
0.000124	0.000539	3.25E-06	
89	0.000601	4.66E-05	0.005489
0.000165	0.000476	3.00E-06	
90	0.000601	5.50E-05	0.006620
0.000186	0.000342	2.58E-06	
91	0.000601	6.27E-05	0.007167
0.000196	0.000197	2.04E-06	
92	0.000601	6.88E-05	0.007336
0.000203	0.000130	1.56E-06	
93	0.000601	7.28E-05	0.006876
0.000210	0.000186	1.15E-06	
94	0.000602	7.44E-05	0.005771
0.000203	0.000277	1.39E-06	
95	0.000602	7.35E-05	0.004098
0.000173	0.000384	3.02E-06	
96	0.000603	7.33E-05	0.001868
0.000108	0.000497	4.36E-06	
97	0.000604	7.27E-05	3.85E-08
3.96E-05	0.000571	3.26E-06	
98	0.000605	6.27E-05	0.001970
5.04E-05	0.000641	4.36E-06	
99	0.000607	5.63E-05	0.003420
0.000107	0.000636	4.58E-06	
100	0.000609	5.94E-05	0.004341
0.000133	0.000554	4.73E-06	
101	0.000611	7.01E-05	0.004771
0.000139	0.000403	4.68E-06	
102	0.000613	8.37E-05	0.004755
0.000133	0.000236	4.49E-06	
103	0.000616	9.77E-05	0.004359
0.000122	0.000133	4.24E-06	
104	0.000617	0.000112	0.003654
0.000106	0.000158	3.80E-06	
105	0.000619	0.000126	0.002713
8.71E-05	0.000201	3.05E-06	
106	0.000620	0.000133	0.001602
6.61E-05	0.000232	2.55E-06	
107	0.000619	0.000135	0.000378
4.43E-05	0.000250	4.85E-06	
108	0.000618	0.000135	2.87E-08
4.07E-05	0.000251	5.25E-06	
109	0.000451	0.000103	4.90E-08
5.49E-05	0.000324	2.81E-06	
110	0.000455	5.28E-05	0.000853
6.27E-05	0.000409	2.89E-06	
111	0.000459	2.59E-05	0.001722
7.44E-05	0.000228	2.77E-06	
112	0.000463	3.09E-05	0.002437
8.69E-05	0.000132	2.70E-06	
113	0.000464	3.93E-05	0.002918
9.54E-05	3.12E-05	2.50E-06	
114	0.000465	4.86E-05	0.003087
9.69E-05	1.47E-05	2.92E-06	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000464	5.57E-05	0.002883
8.87E-05	9.00E-05	4.99E-06	
116	0.000462	5.73E-05	0.002282
6.66E-05	0.000169	6.50E-06	
117	0.000460	5.95E-05	0.001294
3.17E-05	0.000238	6.54E-06	
118	0.000458	3.49E-05	7.24E-08
2.39E-05	0.000282	5.26E-06	
119	0.000457	3.99E-05	0.001053
5.97E-05	0.000300	4.02E-06	
120	0.000456	4.90E-05	0.002459
0.000106	0.000299	2.47E-06	
121	0.000454	5.24E-05	0.003638
0.000133	0.000261	1.66E-06	
122	0.000453	5.32E-05	0.004498
0.000145	0.000181	1.68E-06	
123	0.000452	5.36E-05	0.004958
0.000146	8.82E-05	2.18E-06	
124	0.000451	5.76E-05	0.005117
0.000143	8.17E-05	3.78E-06	
125	0.000450	6.09E-05	0.004807
0.000134	0.000138	6.04E-06	
126	0.000449	6.15E-05	0.004016
0.000114	0.000211	7.77E-06	
127	0.000448	5.77E-05	0.002808
7.97E-05	0.000287	8.49E-06	
128	0.000447	4.57E-05	0.001245
3.11E-05	0.000347	7.65E-06	
129	0.000447	3.26E-05	8.21E-08
1.82E-05	0.000372	6.32E-06	
130	0.000449	3.31E-05	0.001188
4.70E-05	0.000383	4.76E-06	
131	0.000451	3.57E-05	0.002737
9.59E-05	0.000372	2.82E-06	
132	0.000454	5.14E-05	0.004002
0.000127	0.000323	1.62E-06	
133	0.000456	5.21E-05	0.004901
0.000143	0.000226	1.56E-06	
134	0.000459	5.01E-05	0.005329
0.000148	0.000116	2.20E-06	
135	0.000461	4.86E-05	0.005383
0.000149	9.55E-05	4.17E-06	
136	0.000463	4.89E-05	0.004979
0.000144	0.000154	6.54E-06	
137	0.000465	4.72E-05	0.

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000660	0.000196	0.002204
0.000100	0.000695	7.01E-05	
166	0.000659	0.000204	0.003148
0.000111	0.000497	5.81E-05	
167	0.000660	0.000200	0.003824
0.000126	0.000327	5.03E-05	
168	0.000661	0.000183	0.004140
0.000139	0.000239	5.20E-05	
169	0.000664	0.000154	0.004000
0.000146	0.000307	5.85E-05	
170	0.000666	0.000117	0.003322
0.000149	0.000673	6.80E-05	
171	0.000669	7.86E-05	0.002010
0.000122	0.000537	8.03E-05	
172	0.000672	5.56E-05	5.13E-05
9.36E-05	0.000584	8.35E-05	
173	0.000674	5.67E-05	0.001636
0.000142	0.000731	9.42E-05	
174	0.000673	7.88E-05	0.003550
0.000185	0.000783	0.000107	
175	0.000677	0.000104	0.004986
0.000193	0.000727	0.000103	
176	0.000678	0.000124	0.005959
0.000191	0.000582	9.14E-05	
177	0.000678	0.000136	0.006431
0.000183	0.000451	7.45E-05	
178	0.000679	0.000135	0.006603
0.000182	0.000368	5.87E-05	
179	0.000679	0.000121	0.006287
0.000181	0.000378	4.59E-05	
180	0.000679	9.52E-05	0.005393
0.000173	0.000553	3.76E-05	
181	0.000678	6.62E-05	0.003928
0.000152	0.000553	3.34E-05	
182	0.000677	4.36E-05	0.001847
9.82E-05	0.000583	2.83E-05	
183	0.000676	5.01E-05	5.05E-05
6.48E-05	0.000664	3.11E-05	
184	0.000675	6.67E-05	0.001785
0.000121	0.000815	4.49E-05	
185	0.000674	0.000104	0.003857
0.000170	0.000865	5.81E-05	
186	0.000672	0.000141	0.005390
0.000187	0.000802	6.33E-05	
187	0.000671	0.000171	0.006407
0.000190	0.000643	6.47E-05	
188	0.000671	0.000187	0.006854
0.000187	0.000489	6.42E-05	
189	0.000670	0.000189	0.006917
0.000188	0.000391	6.46E-05	
190	0.000669	0.000175	0.006501
0.000192	0.000393	6.99E-05	
191	0.000668	0.000147	0.005497
0.000189	0.000470	7.59E-05	
192	0.000667	0.000110	0.003952
0.000171	0.000556	8.25E-05	
193	0.000665	7.03E-05	0.001839
0.000120	0.000578	8.03E-05	
194	0.000664	5.11E-05	5.03E-05
6.28E-05	0.000655	7.93E-05	
195	0.000663	4.68E-05	0.001967
0.000101	0.000804	9.31E-05	
196	0.000661	7.41E-05	0.004278
0.000159	0.000853	0.000101	
197	0.000660	0.000114	0.006012
0.000183	0.000793	9.37E-05	
198	0.000658	0.000148	0.007185
0.000193	0.000639	7.86E-05	
199	0.000657	0.000171	0.007730
0.000197	0.000485	6.03E-05	
200	0.000657	0.000179	0.007921
0.000203	0.000391	4.95E-05	
201	0.000656	0.000172	0.007465
0.000215	0.000402	4.96E-05	
202	0.000656	0.000152	0.006327
0.000219	0.000493	5.60E-05	
203	0.000656	0.000123	0.004561
0.000209	0.000600	6.43E-05	
204	0.000657	9.28E-05	0.002132
0.000162	0.000645	6.71E-05	
205	0.000658	7.33E-05	8.06E-05
0.000105	0.000820	8.01E-05	
206	0.000660	6.10E-05	0.002245
0.000120	0.000956	0.000100	
207	0.000663	8.58E-05	0.003819
0.000149	0.000967	0.000102	
208	0.000666	0.000127	0.004772
0.000150	0.000874	9.56E-05	
209	0.000669	0.000167	0.005185
0.000145	0.000702	8.47E-05	
210	0.000672	0.000201	0.005126
0.000135	0.000524	7.09E-05	
211	0.000673	0.000223	0.004673
0.000122	0.000405	6.27E-05	
212	0.000674	0.000231	0.003903
0.000107	0.000385	5.97E-05	
213	0.000674	0.000224	0.002892
9.24E-05	0.000407	5.97E-05	
214	0.000674	0.000207	0.001706
8.31E-05	0.000416	6.06E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000673	0.000184	0.000405
3.91E-05	0.000275	3.94E-05	
216	0.000672	0.000176	7.64E-05
4.68E-05	0.000266	4.84E-05	
217	0.000519	0.000119	7.10E-05
6.59E-05	0.000195	5.92E-05	
218	0.000522	8.50E-05	0.000945
4.73E-05	0.000392	5.28E-05	
219	0.000525	5.05E-05	0.001883
7.55E-05	0.000288	4.84E-05	
220	0.000527	3.08E-05	0.002659
9.77E-05	0.000160	4.14E-05	
221	0.000529	3.16E-05	0.003191
0.000115	4.17E-05	3.61E-05	
222	0.000529	3.71E-05	0.003394
0.000126	1.70E-05	4.03E-05	
223	0.000529	4.22E-05	0.003199
0.000130	9.93E-05	4.85E-05	
224	0.000529	4.60E-05	0.002566
0.000123	0.000189	5.79E-05	
225	0.000528	4.66E-05	0.001482
9.25E-05	0.000274	6.80E-05	
226	0.000527	4.33E-05	4.03E-05
6.11E-05	0.000340	7.05E-05	
227	0.000527	4.02E-05	0.001208
0.000119	0.000371	7.49E-05	
228	0.000526	3.75E-05	0.002764
0.000163	0.000374	8.41E-05	
229	0.000526	3.48E-05	0.004027
0.000179	0.000327	8.05E-05	
230	0.000526	3.31E-05	0.004930
0.000180	0.000226	7.10E-05	
231	0.000526	3.46E-05	0.005393
0.000174	0.000118	5.67E-05	
232	0.000526	3.69E-05	0.005562
0.000172	9.79E-05	4.37E-05	
233	0.000525	4.03E-05	0.005243
0.000169	0.000151	3.12E-05	
234	0.000525	4.31E-05	0.004412
0.000159	0.000230	2.25E-05	
235	0.000525	4.43E-05	0.003120
0.000137	0.000315	1.81E-05	
236	0.000525	4.29E-05	0.001404
8.47E-05	0.000390	1.68E-05	
237	0.000525	3.97E-05	4.08E-05
5.22E-05	0.000430	1.83E-05	
238	0.000525	3.61E-05	0.001346
0.000105	0.000455	2.39E-05	
239	0.000526	3.49E-05	0.003049
0.000154	0.000451	3.30E-05	
240	0.000527	3.52E-05	0.004402
0.000173	0.000396	3.91E-05	
241	0.000528	3.45E-05	0.005346
0.000179	0.000280	4.43E-05	
242	0.000529	3.31E-05	0.005786
0.000177	0.000152	4.87E-05	
243	0.000530	3.24E-05	0.005843
0.000178	0.000113	5.20E-05	
244	0.000531	3.33E-05	0.005428
0.000180	0.000166	5.96E-05	
245	0.000532	3.41E-05	0.004492
0.000175	0.000243	6.70E-05	
246	0.000533	3.56E-05	0.003127
0.000155	0.000318	7.30E-05	
247	0.000534	3.99E-05	0.001386
0.000105	0.000384	7.19E-05	
248	0.000535	4.44E-05	4.08E-05
5.21E-05	0.000420	6.82E-05	
249	0.000535	4.58E-05	0.001515
8.88E-05	0.000443	7.53E-05	
250	0.000536	4.53E-05	0.003435
0.000143	0.000439	7.95E-05	
251	0.000536	4.12E-05	0.004973
0.000169	0.000387	7.26E-05	
252	0.000537	3.50E-05	0.006059
0.000182	0.000276	6.07E-05	
253	0.000537	2.80E-05	0.006611
0.000187	0.000152	4.56E-05	
254	0.000537	2.16E-05	0.006755
0.000194	0.000109	3.59E-05	
255	0.000538	1.72E-05	0.006291
0.000204	0.000176	3.72E-05	
256	0.000538	1.65E-05	0.005220
0.000205	0.000267	4.42E-05	
257	0.000539	2.83E-05	0.003642
0.000189	0.000359	5.17E-05	
258	0.000539	4.99E-05	0.001614
0.000141	0.000442	5.55E-05	
259	0.000539	6.14E-05	5.32E-05
7.59E-05	0.000491	6.12E-05	
260	0.000539	6.92E-05	0.001703
9.43E-05	0.000533	7.32E-05	
261	0.000539	6.97E-05	0.003030
0.000126	0.000524	7.27E-05	
262	0.000539	6.54E-05	0.003916
0.000136	0.000456	6.65E-05	
263	0.000540	5.67E-05	0.004361
0.000135	0.000331	5.69E-05	
264	0.000542	4.58E-05	0.004387
0.000127	0.000159	4.99E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000544	3.52E-05	0.004047
0.000116	0.000110	4.99E-05	
266	0.000546	2.76E-05	0.003406
0.000101	0.000149	5.32E-05	
267	0.000550	3.64E-05	0.002533
8.25E-05	0.000190	5.57E-05	
268	0.000553	7.12E-05	0.001497
6.01E-05	0.000220	5.83E-05	
269	0.000556	0.000111	0.000356
3.07E-05	0.000236	3.99E-05	
270	0.000556	0.000121	5.41E-05
4.73E-05	0.000239	4.89E-05	
271	0.000557	1.72E-05	.000000
9.11E-05	0.000836	1.04E-05	.000000
272	0.001296	7.32E-05	.000000
6.65E-05	0.000528	9.48E-06	
273	.000000	.000000	.000000
5.24E-05	0.000632	1.01E-05	.000000
274	0.001496	4.79E-06	.000000
3.73E-05	0.000629	1.09E-05	.000000
275	0.000895	3.77E-05	.000000
8.94E-05	0.000718	1.19E-05	.000000
276	0.001817	1.79E-05	.000000
5.61E-05	0.000282	2.09E-06	
277	0.000438	5.62E-05	.000000
5.75E-05	0.000574	3.76E-06	
278	0.001029	5.76E-05	.000000
2.80E-05	0.000402	1.99E-06	
279	.000000	.000000	.000000
1.58E-05	0.000499	2.42E-06	
280	0.001218	3.84E-06	.000000
8.96E-06	0.000492	2.88E-06	
281	0.001496	1.51E-05	.000000
1.58E-05	0.000572	3.26E-06	
282	0.001410	6.80E-05	.000000
1.64E-05	0.000254	5.25E-06	
283	0.000315	4.28E-05	.000000
7.71E-05	0.000326	2.81E-06	
284	0.000768	1.70E-05	.000000
6.37E-05	0.000275	5.26E-06	
285	1.12E-06	3.80E-05	.000000
2.77E-05	0.000372	6.32E-06	
286	0.000912	0.000219	.000000
4.74E-21	0.000359	5.75E-06	
287	0.000448	0.000114	.000000
9.36E-22	0.000428	5.99E-06	
288	0.000970	0.000162	.000000
1.15E-05	0.000223	1.49E-05	

COMB DL-G1-2 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000707	-9.55E-05	-3.91E-07
-0.000199	-0.000261	-3.21E-06	
2	-0.000707	-7.94E-05	-0.003706
-0.000306	-0.000248	-2.49E-06	
3	-0.000707	-8.04E-05	-0.007146
-0.000405	-0.000216	-1.61E-06	
4	-0.000708	-8.53E-05	-0.009521
-0.000458	-0.000170	-1.60E-06	
5	-0.000706	-8.77E-05	-0.010594
-0.000460	-0.000169	-3.61E-06	
6	-0.000706	-8.65E-05	-0.010266
-0.000417	-0.000278	-7.05E-06	
7	-0.000707	-7.96E-05	-0.008655
-0.000333	-0.000469	-1.07E-05	
8	-0.000709	-6.50E-05	-0.006090
-0.000220	-0.000603	-1.33E-05	
9	-0.000711	-5.15E-05	-0.003018
-0.000103	-0.000638	-1.38E-05	
10	-0.000715	-5.10E-05	-8.94E-07
-7.90E-05	-0.000560	-1.04E-05	
11	-0.000718	-3.99E-05	-0.002052
-0.000152	-0.000470	-8.80E-06	
12	-0.000722	-3.89E-05	-0.005363
-0.000281	-0.000351	-6.18E-06	
13	-0.000726	-4.98E-05	-0.008588
-0.000396	-0.000264	-3.79E-06	
14	-0.000730	-5.77E-05	-0.011199
-0.000477	-0.000185	-2.40E-06	
15	-0.000733	-6.23E-05	-0.012691
-0.000511	-0.000177	-3.06E-06	
16	-0.000735	-6.09E-05	-0.012799
-0.000498	-0.000272	-5.12E-06	
17	-0.000735	-5.39E-05	-0.011495
-0.000440	-0.000430	-7.57E-06	
18	-0.000734	-4.14E-05	-0.008991
-0.000342	-0.000610	-1.07E-05	
19	-0.000734	-2.70E-05	-0.005754
-0.000218	-0.000700	-1.26E-05	
20	-0.000733	-3.39E-05	-0.002276
-9.14E-05	-0.000687	-1.21E-05	
21	-0.000732	-4.39E-05	-9.12E-07
-6.37E-05	-0.000610	-9.74E-06	
22	-0.000730	-4.48E-05	-0.002383
-0.000126	-0.000512	-8.51E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	-0.000727	-6.31E-05	-0.006090
-0.000257	-0.000382	-6.12E-06	
24	-0.000724	-8.32E-05	-0.009631
-0.000379	-0.000284	-3.77E-06	
25	-0.000722	-9.52E-05	-0.012480
-0.000473	-0.000194	-2.46E-06	
26	-0.000719	-0.000100	-0.014069
-0.000521	-0.000178	-3.21E-06	
27	-0.000717	-0.000102	-0.014116
-0.000521	-0.000287	-5.37E-06	
28	-0.000715	-9.85E-05	-0.012608
-0.000472	-0.000462	-8.01E-06	
29	-0.000712	-8.70E-05	-0.009805
-0.000377	-0.000655	-1.14E-05	
30	-0.000710	-6.63E-05	-0.006258
-0.000254	-0.000750	-1.36E-05	
31	-0.000708	-4.55E-05	-0.002479
-0.000121	-0.000741	-1.34E-05	
32	-0.000707	-4.39E-05	-9.09E-07
-6.09E-05	-0.000667	-1.15E-05	
33	-0.000705	-3.69E-05	-0.002347
-9.59E-05	-0.000537	-1.06E-05	
34	-0.000702	-4.23E-05	-0.005954
-0.000226	-0.000433	-8.34E-06	
35	-0.000699	-7.03E-05	-0.009353
-0.000351	-0.000332	-5.93E-06	
36	-0.000697	-9.52E-05	-0.012040
-0.000452	-0.000233	-4.47E-06	
37	-0.000695	-0.000114	-0.013476
-0.000511	-0.000197	-3.83E-06	
38	-0.000694	-0.000126	-0.013408
-0.000523	-0.000285	-5.11E-06	
39	-0.000693	-0.000131	-0.011853
-0.000486	-0.000440	-7.20E-06	
40	-0.000694	-0.000125	-0.009098
-0.000400	-0.000617	-1.04E-05	
41	-0.000695	-0.000108	-0.005703
-0.000282	-0.000695	-1.17E-05	
42	-0.000697	-8.14E-05	-0.002203
-0.000152	-0.000666	-1.12E-05	
43	-0.000698	-6.04E-05	-9.48E-07
-8.50E-05	-0.000575	-9.13E-06	
44	-0.000698	-4.54E-05	-0.003934
-0.000129	-0.000415	-8.86E-06	
45	-0.000700	-1.51E-05	-0.008111
-0.000267	-0.000271	-6.14E-06	
46	-0.000700	-1.81E-05	-0.011909
-0.000407	-0.000146	-3.41E-06	
47	-0.000699	-2.88E-05	-0.014806
-0.000523	-3.98E-05	-1.72E-06	
48	-0.000699	-3.44E-05	-0.016380
-0.000601	-4.02E-05	-1.28E-06	
49	-0.000698	-3.72E-05	-0.016384
-0.000638	-0.000196	-2.57E-06	
50	-0.000697	-3.88E-05	-0.014757
-0.000624	-0.000442	-4.90E-06	
51	-0.000696	-4.00E-05	-0.011611
-0.000558	-0.000716	-7.55E-06	
52	-0.000695	-4.19E-05	-0.007177
-0.000438	-0.000962	-9.41E-06	
53	-0.000695	-5.84E-05	-0.001738
-0.000270	-0.001131	-1.01E-05	
54	-0.000694	-6.68E-05	-4.23E-07
-0.000228	-0.001147	-1.01E-05	
55	-0.000566	-5.38E-05	-1.63E-07
-0.000130	-0.000228	-5.04E-06	
56	-0.000567	-4.96E-05	-0.002530
-0.000288	-0.000216	-3.69E-06	
57	-0.000567	-4.57E-05	-0.004929
-0.000449	-0.000186	-2.52E-06	
58	-0.000568	-4.20E-05	-0.006631
-0.000549	-0.000141	-2.52E-06	
59	-0.000568	-3.78E-05	-0.007439
-0.000576	-0.000116	-2.69E-06	
60	-0.000569	-3.32E-05	-0.007268
-0.000533	-0.000198	-2.85E-06	
61	-0.000569	-2.85E-05	-0.006181
-0.000429	-0.000342	-3.05E-06	
62	-0.000570	-2.37E-05	-0.004401
-0.000285	-0.000438	-3.17E-06	
63	-0.000571	-1.93E-05	-0.002222
-0.000130	-0.000467	-3.23E-06	
64	-0.000572	-1.48E-05	-3.93E-07
-6.02E-05	-0.000429	-2.86E-06	
65	-0.000572	-1.11E-05	-0.001515
-0.000153	-0.000380	-3.89E-06	
66	-0.000572	-1.14E-05	-0.003905
-0.000316	-0.000303	-3.11E-06	
67	-0.000573	-1.42E-05	-0.006226
-0.000469	-0.000236	-1.95E-06	
68	-0.000573	-1.66E-05	-0.008114
-0.000585	-0.000166	-1.19E-06	
69	-0.000573	-1.78E-05	-0.009208
-0.000642	-0.000130	-9.06E-07	
70	-0.000573	-1.74E-05	-0.009310
-0.000633	-0.000188	-9.19E-07	
71	-0.000573	-1.52E-05	-0.008392
-0.000557	-0.000316	-1.19E-06	
72	-0.000573	-1.13E-05	-0.006603
-0.000428	-0.000447	-1.66E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	-0.000572	-6.54E-06	-0.004269
-0.000269	-0.000514	-2.11E-06	
74	-0.000572	-3.72E-05	-0.001723
-0.000107	-0.000515	-2.46E-06	
75	-0.000572	-8.66E-06	-4.05E-07
-4.15E-05	-0.000476	-2.12E-06	
76	-0.000572	-1.39E-05	-0.001825
-0.000136	-0.000421	-3.28E-06	
77	-0.000572	-2.18E-05	-0.004586
-0.000302	-0.000334	-4.29E-06	
78	-0.000572	-2.93E-05	-0.007198
-0.000461	-0.000256	-1.90E-06	
79	-0.000572	-3.50E-05	-0.009296
-0.000588	-0.000176	-1.29E-06	
80	-0.000572	-3.88E-05	-0.010471
-0.000658	-0.000133	-9.92E-07	
81	-0.000572	-4.04E-05	-0.010514
-0.000658	-0.000192	-9.32E-07	
82	-0.000573	-3.89E-05	-0.009412
-0.000588	-0.000336	-1.22E-06	
83	-0.000573	-3.42E-05	-0.007354
-0.000462	-0.000482	-1.93E-06	
84	-0.000573	-2.67E-05	-0.004735
-0.000302	-0.000558	-2.76E-06	
85	-0.000573	-1.75E-05	-0.001909
-0.000136	-0.000564	-3.43E-06	
86	-0.000573	-1.03E-05	-4.04E-07
-4.05E-05	-0.000528	-3.31E-06	
87	-0.000573	-6.73E-06	-0.001784
-0.000110	-0.000473	-4.59E-06	
88	-0.000573	-1.54E-05	-0.004446
-0.000276	-0.000383	-4.33E-06	
89	-0.000573	-2.71E-05	-0.006922
-0.000437	-0.000302	-3.54E-06	
90	-0.000573	-3.87E-05	-0.008869
-0.000570	-0.000214	-2.98E-06	
91	-0.000573	-4.89E-05	-0.009902
-0.000648	-0.000152	-2.35E-06	
92	-0.000573	-5.69E-05	-0.009841
-0.000657	-0.000182	-1.71E-06	
93	-0.000573	-6.19E-05	-0.008700
-0.000596	-0.000306	-1.09E-06	
94	-0.000573	-6.23E-05	-0.006693
-0.000475	-0.000439	-9.30E-07	
95	-0.000573	-5.73E-05	-0.004223
-0.000319	-0.000502	-1.74E-06	
96	-0.000574	-4.80E-05	-0.001658
-0.000155	-0.000493	-2.48E-06	
97	-0.000574	-3.94E-05	-4.19E-07
-6.41E-05	-0.000445	-1.68E-06	
98	-0.000575	-2.24E-05	-0.003009
-0.000139	-0.000351	-3.23E-06	
99	-0.000576	-1.14E-05	-0.006112
-0.000325	-0.000248	-2.60E-06	
100	-0.000577	-8.76E-06	-0.008904
-0.000507	-0.000147	-2.20E-06	
101	-0.000578	-7.36E-06	-0.011013
-0.000657	-5.28E-05	-2.13E-06	
102	-0.000579	-6.59E-06	-0.012129
-0.000754	-1.66E-05	-2.08E-06	
103	-0.000580	-6.82E-06	-0.012074
-0.000787	-0.000112	-2.00E-06	
104	-0.000580	-9.23E-06	-0.010812
-0.000748	-0.000303	-1.92E-06	
105	-0.000581	-1.51E-05	-0.008447
-0.000636	-0.000511	-1.83E-06	
106	-0.000581	-2.08E-05	-0.005177
-0.000453	-0.000690	-2.11E-06	
107	-0.000581	-2.72E-05	-0.001245
-0.000216	-0.000813	-2.26E-06	
108	-0.000580	-2.93E-05	-1.89E-07
-0.000161	-0.000826	-6.26E-06	
109	-0.000432	-3.58E-05	-1.01E-08
-0.000121	-0.000191	-1.19E-05	
110	-0.000433	-2.45E-05	-0.001462
-0.000207	-0.000182	-1.14E-05	
111	-0.000435	-3.73E-05	-0.002900
-0.000298	-0.000156	-9.72E-06	
112	-0.000436	-7.38E-05	-0.003972
-0.000356	-0.000115	-6.90E-06	
113	-0.000437	-9.62E-05	-0.004531
-0.000370	-6.58E-05	-3.39E-06	
114	-0.000438	-0.000101	-0.004501
-0.000341	-0.000104	-7.43E-07	
115	-0.000438	-8.77E-05	-0.003902
-0.000274	-0.000200	-2.41E-07	
116	-0.000438	-6.23E-05	-0.002849
-0.000181	-0.000268	-1.49E-06	
117	-0.000437	-3.23E-05	-0.001492
-8.51E-05	-0.000302	-3.49E-06	
118	-0.000435	-9.92E-06	-2.18E-08
-5.27E-05	-0.000308	-5.84E-06	
119	-0.000433	-2.21E-05	-0.001024
-0.000106	-0.000297	-7.39E-06	
120	-0.000430	-5.75E-05	-0.002566
-0.000208	-0.000259	-8.64E-06	
121	-0.000427	-9.60E-05	-0.004044
-0.000307	-0.000211	-8.23E-06	
122	-0.000424	-0.000129	-0.005255
-0.000383	-0.000150	-6.56E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000421	-0.000148	-0.005973
-0.000422	-9.06E-05	-4.09E-06	
124	-0.000420	-0.000151	-0.006067
-0.000415	-0.000105	-2.00E-06	
125	-0.000420	-0.000135	-0.005514
-0.000365	-0.000195	-1.24E-06	
126	-0.000420	-0.000105	-0.004394
-0.000280	-0.000284	-1.27E-06	
127	-0.000420	-6.71E-05	-0.002902
-0.000176	-0.000335	-2.49E-06	
128	-0.000421	-2.98E-05	-0.001213
-7.28E-05	-0.000354	-4.51E-06	
129	-0.000421	-1.01E-05	-2.53E-08
-4.46E-05	-0.000351	-6.10E-06	
130	-0.000422	-1.32E-05	-0.001311
-9.32E-05	-0.000334	-7.51E-06	
131	-0.000423	-4.94E-05	-0.003200
-0.000200	-0.000287	-8.48E-06	
132	-0.000426	-8.78E-05	-0.004946
-0.000304	-0.000228	-7.88E-06	
133	-0.000428	-0.000119	-0.006341
-0.000388	-0.000159	-6.23E-06	
134	-0.000430	-0.000135	-0.007124
-0.000435	-9.58E-05	-3.94E-06	
135	-0.000432	-0.000134	-0.007161
-0.000434	-0.000109	-2.23E-06	
136	-0.000434	-0.000115	-0.006443
-0.000388	-0.000219	-1.75E-06	
137	-0.000435	-8.20E-05	-0.005082
-0.000304	-0.000321	-1.25E-06	
138	-0.000437	-4.35E-05	-0.003330
-0.000199	-0.000379	-2.89E-06	
139	-0.000438	-1.21E-05	-0.001383
-9.11E-05	-0.000400	-4.66E-06	
140	-0.000439	-1.75E-05	-2.20E-08
-4.31E-05	-0.000397	-6.10E-06	
141	-0.000440	-3.64E-05	-0.001266
-7.56E-05	-0.000381	-7.39E-06	
142	-0.000442	-7.22E-05	-0.003057
-0.000182	-0.000331	-8.21E-06	
143	-0.000444	-0.000108	-0.004675
-0.000287	-0.000270	-7.43E-06	
144	-0.000445	-0.000135	-0.005928
-0.000375	-0.000193	-5.71E-06	
145	-0.000447	-0.000147	-0.006580
-0.000427	-0.000116	-3.61E-06	
146	-0.000447	-0.000140	-0.006522
-0.000433	-0.000101	-2.48E-06	
147	-0.000447	-0.000115

-0.000571 -0.000486 -6.82E-05
169 -0.000637 -5.46E-05 -0.007549
-0.000455 -0.000647 -8.33E-05
170 -0.000639 -4.36E-05 -0.005331
-0.000299 -0.000755 -9.42E-05
171 -0.000640 -2.91E-05 -0.002665
-0.000124 -0.000773 -9.89E-05
172 -0.000643 -1.77E-05 -8.14E-05
-2.80E-05 -0.000675 -8.78E-05

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
173	-0.000645	-1.51E-05	-0.001810
-0.000141	-0.000528	-8.01E-05	
174	-0.000647	-2.43E-05	-0.004704
-0.000327	-0.000522	-8.40E-05	
175	-0.000650	-3.28E-05	-0.007517
-0.000495	-0.000454	-7.78E-05	
176	-0.000652	-3.67E-05	-0.009815
-0.000618	-0.000391	-7.15E-05	
177	-0.000653	-3.82E-05	-0.011142
-0.000673	-0.000390	-6.54E-05	
178	-0.000654	-3.70E-05	-0.011247
-0.000659	-0.000475	-6.20E-05	
179	-0.000653	-3.18E-05	-0.010104
-0.000580	-0.000612	-6.04E-05	
180	-0.000652	-2.26E-05	-0.007909
-0.000440	-0.000683	-5.80E-05	
181	-0.000651	-1.27E-05	-0.005085
-0.000264	-0.000829	-5.38E-05	
182	-0.000650	-6.21E-06	-0.002028
-8.03E-05	-0.000784	-4.20E-05	
183	-0.000649	-1.29E-05	-7.86E-05
-1.78E-05	-0.000639	-2.95E-05	
184	-0.000645	-2.25E-05	-0.002131
-0.000113	-0.000567	-2.77E-05	
185	-0.000647	-4.24E-05	-0.005411
-0.000299	-0.000551	-3.42E-05	
186	-0.000647	-5.72E-05	-0.008528
-0.000475	-0.000472	-3.90E-05	
187	-0.000646	-6.62E-05	-0.011050
-0.000610	-0.000399	-4.72E-05	
188	-0.000645	-7.04E-05	-0.012467
-0.000676	-0.000392	-5.93E-05	
189	-0.000644	-7.27E-05	-0.012512
-0.000675	-0.000482	-7.40E-05	
190	-0.000643	-7.05E-05	-0.011174
-0.000608	-0.000634	-9.19E-05	
191	-0.000642	-6.22E-05	-0.008694
-0.000473	-0.000801	-0.000105	
192	-0.000641	-4.73E-05	-0.005572
-0.000297	-0.000874	-0.000111	
193	-0.000640	-2.49E-05	-0.002225
-0.000112	-0.000836	-0.000100	
194	-0.000643	-1.38E-05	-7.80E-05
-1.65E-05	-0.000694	-8.41E-05	
195	-0.000639	-9.35E-06	-0.002091
-8.36E-05	-0.000622	-8.29E-05	
196	-0.000637	-2.30E-05	-0.005272
-0.000270	-0.000601	-8.16E-05	
197	-0.000635	-4.58E-05	-0.008249
-0.000450	-0.000517	-7.18E-05	
198	-0.000634	-6.61E-05	-0.010616
-0.000593	-0.000434	-6.23E-05	
199	-0.000633	-8.20E-05	-0.011884
-0.000673	-0.000407	-5.36E-05	
200	-0.000632	-9.30E-05	-0.011819
-0.000685	-0.000474	-5.40E-05	
201	-0.000632	-9.83E-05	-0.010438
-0.000628	-0.000606	-6.31E-05	
202	-0.000632	-9.61E-05	-0.008007
-0.000500	-0.000758	-7.43E-05	
203	-0.000633	-8.45E-05	-0.005036
-0.000328	-0.000818	-7.94E-05	
204	-0.000634	-6.17E-05	-0.001958
-0.000140	-0.000770	-7.14E-05	
205	-0.000635	-3.87E-05	-9.70E-05
-2.57E-05	-0.000625	-6.21E-05	
206	-0.000636	-1.29E-05	-0.003501
-0.000129	-0.000582	-6.23E-05	
207	-0.000637	-7.60E-06	-0.007188
-0.000332	-0.000458	-5.41E-05	
208	-0.000638	-6.29E-06	-0.010524
-0.000524	-0.000348	-4.91E-05	
209	-0.000638	-7.20E-06	-0.013076
-0.000683	-0.000261	-4.90E-05	
210	-0.000638	-1.20E-05	-0.014456
-0.000788	-0.000258	-5.24E-05	
211	-0.000639	-1.72E-05	-0.014434
-0.000830	-0.000388	-6.18E-05	
212	-0.000639	-2.18E-05	-0.012956
-0.000800	-0.000598	-7.74E-05	
213	-0.000639	-2.61E-05	-0.010149
-0.000689	-0.000835	-9.45E-05	
214	-0.000639	-3.03E-05	-0.006244
-0.000490	-0.000934	-0.000114	
215	-0.000640	-3.46E-05	-0.001489
-0.000177	-0.001083	-8.47E-05	
216	-0.000640	-3.59E-05	-9.65E-05
-4.88E-05	-0.001011	-9.85E-05	
217	-0.000498	-4.60E-05	-4.77E-05
-1.03E-05	-0.000211	-4.21E-05	
218	-0.000499	-3.76E-05	-0.001946
-0.000217	-0.000201	-3.45E-05	
219	-0.000500	-2.90E-05	-0.003783
-0.000403	-0.000172	-3.63E-05	
220	-0.000501	-2.55E-05	-0.005114
-0.000505	-0.000129	-3.69E-05	
221	-0.000502	-3.72E-05	-0.005770
-0.000530	-0.000135	-3.98E-05	
222	-0.000502	-4.28E-05	-0.005679
-0.000488	-0.000154	-4.97E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
223	-0.000503	-3.93E-05	-0.004875
-0.000387	-0.000269	-6.16E-05	
224	-0.000503	-2.82E-05	-0.003511
-0.000248	-0.000346	-7.15E-05	
225	-0.000503	-1.55E-05	-0.001806
-9.20E-05	-0.000375	-7.63E-05	
226	-0.000502	-1.07E-05	-2.90E-05
-3.51E-06	-0.000359	-7.07E-05	
227	-0.000502	-1.26E-05	-0.001242
-9.82E-05	-0.000332	-6.97E-05	
228	-0.000500	-2.73E-05	-0.003146
-0.000260	-0.000280	-7.25E-05	
229	-0.000499	-4.74E-05	-0.004986
-0.000414	-0.000226	-6.76E-05	
230	-0.000498	-6.59E-05	-0.006488
-0.000529	-0.000161	-6.13E-05	
231	-0.000496	-7.75E-05	-0.007362
-0.000584	-0.000110	-5.06E-05	
232	-0.000496	-7.98E-05	-0.007459
-0.000576	-0.000145	-4.80E-05	
233	-0.000496	-7.21E-05	-0.006754
-0.000507	-0.000253	-4.16E-05	
234	-0.000496	-5.60E-05	-0.005347
-0.000383	-0.000360	-3.55E-05	
235	-0.000497	-3.49E-05	-0.003493
-0.000225	-0.000416	-2.95E-05	
236	-0.000497	-1.58E-05	-0.001438
-6.46E-05	-0.000425	-2.14E-05	
237	-0.000498	-8.32E-06	-3.18E-05
-7.63E-06	-0.000405	-1.68E-05	
238	-0.000498	-8.42E-06	-0.001538
-8.90E-05	-0.000373	-1.61E-05	
239	-0.000499	-1.98E-05	-0.003801
-0.000252	-0.000312	-1.83E-05	
240	-0.000500	-3.94E-05	-0.005920
-0.000412	-0.000245	-2.39E-05	
241	-0.000500	-5.62E-05	-0.007618
-0.000535	-0.000171	-3.18E-05	
242	-0.000501	-6.51E-05	-0.008564
-0.000599	-0.000114	-4.36E-05	
243	-0.000502	-6.44E-05	-0.008604
-0.000599	-0.000145	-5.60E-05	
244	-0.000502	-5.42E-05	-0.007725
-0.000536	-0.000272	-7.20E-05	
245	-0.000503	-3.70E-05	-0.006064
-0.000413	-0.000395	-8.40E-05	
246	-0.000504	-1.94E-05	-0.003938
-0.000253	-0.000459	-9.00E-05	
247	-0.000505	-1.26E-05	-0.001613
-8.90E-05	-0.000474	-8.33E-05	
248	-0.000506	-1.27E-05	-3.16E-05
-8.42E-06	-0.000456	-7.44E-05	
249	-0.000506	-1.87E-05	-0.001496
-6.87E-05	-0.000425	-7.66E-05	
250	-0.000507	-3.70E-05	-0.003660
-0.000231	-0.000360	-7.44E-05	
251	-0.000508	-5.65E-05	-0.005647
-0.000393	-0.000290	-6.53E-05	
252	-0.000509	-7.07E-05	-0.007199
-0.000520	-0.000207	-5.52E-05	
253	-0.000509	-7.57E-05	-0.008009
-0.000590	-0.000134	-4.39E-05	
254	-0.000510	-7.11E-05	-0.007949
-0.000597	-0.000134	-3.85E-05	
255	-0.000510	-5.78E-05	-0.007037
-0.000541	-0.000244	-4.33E-05	
256	-0.000509	-3.99E-05	-0.005430
-0.000422	-0.000355	-5.17E-05	
257	-0.000508	-3.30E-05	-0.003451
-0.000264	-0.000407	-5.64E-05	
258	-0.000508	-3.50E-05	-0.001378
-0.000100	-0.000409	-5.13E-05	
259	-0.000508	-3.90E-05	-5.69E-05
-5.77E-06	-0.000382	-4.91E-05	
260	-0.000508	-5.01E-05	-0.002542
-0.000102	-0.000321	-4.93E-05	
261	-0.000508	-6.47E-05	-0.005080
-0.000287	-0.000239	-4.45E-05	
262	-0.000509	-7.62E-05	-0.007335
-0.000464	-0.000150	-4.01E-05	
263	-0.000510	-7.87E-05	-0.009024
-0.000608	-6.32E-05	-3.72E-05	
264	-0.000512	-7.06E-05	-0.009889
-0.000700	-0.000057	-4.42E-05	
265	-0.000513	-5.22E-05	-0.009802
-0.000732	-7.92E-05	-5.18E-05	
266	-0.000514	-2.68E-05	-0.008745
-0.000696	-0.000245	-6.73E-05	
267	-0.000515	-1.09E-05	-0.006800
-0.000586	-0.000414	-8.29E-05	
268	-0.000515	-1.43E-05	-0.004154
-0.000395	-0.000554	-9.72E-05	
269	-0.000515	-2.23E-05	-0.001025
-0.000108	-0.000658	-6.79E-05	
270	-0.000515	-2.49E-05	-5.72E-05
-8.91E-06	-0.000679	-8.49E-05	
271	-0.001074	-9.15E-06	.000000
-0.000191	-0.000258	-3.21E-06	
272	-0.001317	-7.21E-05	.000000
-9.60E-05	-0.000555	-1.04E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
273	.000000	.000000	.000000
-7.54E-05	-0.000608	-9.74E-06	
274	-0.001339	-5.35E-06	.000000
-6.43E-05	-0.000666	-1.62E-06	
275	-0.001079	-3.13E-05	.000000
-0.000113	-0.000568	-9.13E-06	
276	-0.000929	-9.14E-06	.000000
-0.000206	-0.001151	-1.01E-05	
277	-0.000720	-3.42E-05	.000000
-0.000111	-0.000221	-5.24E-06	
278	-0.001036	-5.73E-05	.000000
-6.65E-05	-0.000426	-2.86E-06	
279	.000000	.000000	.000000
-4.81E-05	-0.000475	-2.12E-06	
280	-0.001074	-4.36E-06	.000000
-4.37E-05	-0.000528	-3.31E-06	
281	-0.001811	-1.82E-05	.000000
-4.68E-05	-0.000447	-1.68E-06	
282	-0.000789	-3.81E-05	.000000
-8.50E-05	-0.000837	-6.26E-06	
283	-0.000392	-3.85E-06	.000000
-0.000101	-0.000181	-1.19E-05	
284	-0.000764	-3.71E-05	.000000
-0.000100	-0.000589	-5.24E-06	
285	-1.34E-06	-4.52E-05	.000000
-5.12E-05	-0.000349	-6.10E-06	
286	-0.000787	-0.000212	.000000
-1.07E-05	-0.000399	-6.10E-06	
287	-0.000556	-0.000158	.000000
-3.02E-05	-0.000328	-5.90E-06	
288	-0.000627	-0.000159	.000000
-5.94E-05	-0.000532	-3.22E-06	

COMB DL-G1-3 ---------- MAX

JOINT	U1	U2	U3
	R1	R2	R3
1	0.000923	0.000204	5.30E-08
8.64E-05	0.000994	8.53E-06	
2	0.000926	0.000221	0.001523
0.000136	0.000905	7.61E-06	
3	0.000923	0.000244	0.003077
0.000190	0.000689	6.02E-06	
4	0.000922	0.000260	0.004380
0.000226	0.000415	3.59E-06	
5	0.000921	0.000262	0.005312
0.000245	0.000153	1.56E-06	
6	0.000923	0.000244	0.005745
0.000251	7.36E-06	1.01E-06	
7	0.000925	0.000208	0.005547
0.000234	0.000118	2.44E-06	
8	0.000929	0.000160	0.004600
0.000188	0.000280	4.67E-06	
9	0.000933	0.000112	0.002776
0.000110	0.000461	7.20E-06	
10	0.000937	8.63E-05	7.27E-08
6.80E-05	0.000653	8.72E-06	
11	0.000941	8.45E-05	0.002256
0.000105	0.000761	1.05E-05	
12	0.000941	0.000105	0.004915
0.000185	0.000804	1.09E-05	
13	0.000943	0.000138	0.006909
0.000243	0.000719	9.62E-06	
14	0.000945	0.000169	0.008259
0.000276	0.000517	7.34E-06	
15	0.000946	0.000190	0.008912
0.000289	0.000314	5.24E-06	
16	0.000947	0.000191	0.009150
0.000291	0.000188	3.37E-06	
17	0.000948	0.000171	0.008710
0.000278	0.000221	2.64E-06	
18	0.000949	0.000135	0.007469
0.000242	0.000345	3.92E-06	
19	0.000949	9.02E-05	0.005434
0.000176	0.000494	6.25E-06	
20	0.000948	6.50E-05	0.002545
8.14E-05	0.000668	8.58E-06	1.13E-07
21	0.000948	7.06E-05	
5.18E-05	0.000790	9.67E-06	0.002462
22	0.000946	8.71E-05	
9.27E-05	0.000884	1.15E-05	0.005337
23	0.000942	0.000137	
0.000181	0.000907	1.20E-05	0.007465
24	0.000939	0.000188	
0.000244	0.000805	1.05E-05	
25	0.000936	0.000230	0.008876
0.000280	0.000577	7.94E-06	
26	0.000933	0.000253	0.009496
0.000294	0.000349	5.71E-06	
27	0.000930	0.000255	0.009585
0.000294	0.000216	3.56E-06	
28	0.000928	0.000235	0.009007
0.000281	0.000249	2.63E-06	
29	0.000925	0.000195	0.007613
0.000245	0.000370	4.00E-06	
30	0.000923	0.000143	0.005467
0.000181	0.000507	6.40E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
31	0.000920	9.05E-05	0.002533
9.06E-05	0.000668	8.93E-06	
32	0.000918	7.10E-05	1.29E-07
4.97E-05	0.000782	1.04E-05	
33	0.000917	6.79E-05	0.002717
8.33E-05	0.000866	1.24E-05	
34	0.000914	0.000101	0.005920
0.000181	0.000881	1.30E-05	
35	0.000912	0.000155	0.008325
0.000249	0.000773	1.16E-05	
36	0.000909	0.000201	0.009951
0.000289	0.000547	8.95E-06	
37	0.000907	0.000241	0.010711
0.000304	0.000324	5.74E-06	
38	0.000906	0.000237	0.010965
0.000305	0.000215	3.43E-06	
39	0.000904	0.000225	0.010331
0.000294	0.000266	2.19E-06	
40	0.000904	0.000195	0.008751
0.000260	0.000410	3.27E-06	
41	0.000904	0.000154	0.006297
0.000200	0.000576	6.02E-06	
42	0.000904	0.000115	0.002922
0.000115	0.000767	9.17E-06	
43	0.000905	9.25E-05	7.01E-08
7.89E-05	0.000902	1.14E-05	
44	0.000908	8.52E-05	0.003101
0.000123	0.001028	1.64E-05	
45	0.000911	0.000119	0.005285
0.000201	0.001015	1.68E-05	
46	0.000914	0.000175	0.006609
0.000247	0.000866	1.50E-05	
47	0.000916	0.000232	0.007183
0.000265	0.000696	1.22E-05	
48	0.000918	0.000274	0.007101
0.000264	0.000350	8.58E-06	
49	0.000918	0.000297	0.006473
0.000251	0.000224	5.19E-06	
50	0.000916	0.000301	0.005406
0.000224	0.000074	2.74E-06	
51	0.000913	0.000286	0.004005
0.000187	0.000300	1.56E-06	
52	0.000909	0.000261	0.002361
0.000136	0.000343	1.40E-06	
53	0.000906	0.000239	0.000556
7.35E-05	0.000367	2.40E-06	
54	0.000905	0.000235	4.22E-08
6.35E-05	0.000369	2.60E-06	
55	0.000817	0.000136	3.74E-08
3.71E-05	0.000818	4.12E-06	
56	0.000817	0.000134	0.001375
5.81E-05	0.000736	2.88E-06	
57	0.000817	0.000134	0.002777
8.10E-05	0.000652	1.62E-06	
58	0.000818	0.000128	0.003947
0.000100	0.000324	1.30E-06	
59	0.000818	0.000118	0.004768
0.000114	0.000113	1.10E-06	
60	0.000820	0.000104	0.005122
0.000125	1.40E-05	1.32E-06	
61	0.000822	8.82E-05	0.004899
0.000128	0.000120	1.73E-06	
62	0.000822	7.25E-05	0.004017
0.000115	0.000259	2.40E-06	
63	0.000824	6.07E-05	0.002394
7.34E-05	0.000409	3.17E-06	
64	0.000825	5.36E-05	6.37E-08
4.69E-05	0.000560	3.03E-06	
65	0.000826	4.63E-05	0.001949
9.69E-05	0.000642	3.54E-06	
66	0.000828	3.91E-05	0.004308
0.000144	0.000667	3.34E-06	
67	0.000828	3.94E-05	0.006133
0.000167	0.000589	2.75E-06	
68	0.000829	4.32E-05	0.007404
0.000171	0.000418	2.20E-06	
69	0.000829	4.62E-05	0.008038
0.000167	0.000247	1.71E-06	
70	0.000830	4.59E-05	0.008272
0.000164	0.000161	1.47E-06	
71	0.000830	4.12E-05	0.007842
0.000160	0.000207	1.60E-06	
72	0.000830	3.40E-05	0.006675
0.000147	0.000321	2.16E-06	
73	0.000829	2.98E-05	0.004809
0.000115	0.000452	3.10E-06	
74	0.000829	3.01E-05	0.002228
5.64E-05	0.000589	4.04E-06	
75	0.000829	3.90E-05	9.53E-08
1.99E-05	0.000691	3.69E-06	
76	0.000828	4.85E-05	0.002147
7.32E-05	0.000761	4.20E-06	
77	0.000828	6.30E-05	0.004713
0.000127	0.000771	4.06E-06	
78	0.000828	7.94E-05	0.006667
0.000155	0.000678	3.52E-06	
79	0.000828	9.27E-05	0.007995
0.000166	0.000484	2.79E-06	
80	0.000828	0.000101	0.008596
0.000167	0.000286	2.06E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
81	0.000828	0.000103	0.008679
0.000168	0.000186	1.49E-06	
82	0.000828	9.83E-05	0.008115
0.000167	0.000232	1.45E-06	
83	0.000828	8.69E-05	0.006802
0.000156	0.000344	2.07E-06	
84	0.000828	7.05E-05	0.004831
0.000127	0.000461	3.13E-06	
85	0.000828	5.37E-05	0.002211
7.16E-05	0.000592	4.26E-06	
86	0.000827	4.11E-05	1.11E-07
1.74E-05	0.000681	4.23E-06	
87	0.000827	3.15E-05	0.002386
5.70E-05	0.000745	4.78E-06	
88	0.000827	3.36E-05	0.005261
0.000119	0.000749	4.90E-06	
89	0.000826	4.93E-05	0.007477
0.000153	0.000656	4.55E-06	
90	0.000826	6.60E-05	0.009007
0.000170	0.000466	3.82E-06	
91	0.000825	7.91E-05	0.009748
0.000178	0.000273	2.88E-06	
92	0.000825	8.77E-05	0.009978
0.000186	0.000182	2.04E-06	
93	0.000825	9.14E-05	0.009353
0.000194	0.000248	1.35E-06	
94	0.000825	8.97E-05	0.007857
0.000191	0.000380	1.31E-06	
95	0.000826	8.30E-05	0.005592
0.000169	0.000524	3.03E-06	
96	0.000827	7.49E-05	0.002562
0.000118	0.000680	4.97E-06	
97	0.000828	6.93E-05	5.17E-08
6.44E-05	0.000787	4.56E-06	
98	0.000830	5.70E-05	0.002705
7.88E-05	0.000885	5.83E-06	
99	0.000832	5.01E-05	0.004670
0.000124	0.000869	6.38E-06	
100	0.000834	5.53E-05	0.005912
0.000138	0.000744	6.53E-06	
101	0.000837	7.54E-05	0.006491
0.000137	0.000527	6.29E-06	
102	0.000839	9.71E-05	0.006468
0.000127	0.000306	5.72E-06	
103	0.000842	0.000116	0.005928
0.000117	0.000181	5.00E-06	
104	0.000843	0.000133	0.004970
0.000106	0.000219	4.05E-06	
105	0.000845	0.000146	0.003689
9.16E-05	0.000276	3.01E-06	
106	0.000845	0.000151	0.002178
7.44E-05	0.000317	2.29E-06	
107	0.000844	0.000146	0.000514
5.60E-05	0.000340	4.00E-06	
108	0.000843	0.000144	3.75E-08
5.32E-05	0.000342	4.41E-06	
109	0.000682	0.000103	5.46E-08
5.90E-05	0.000549	2.58E-06	
110	0.000686	6.16E-05	0.001232
6.72E-05	0.000502	2.55E-06	
111	0.000691	4.85E-05	0.002488
7.77E-05	0.000388	2.50E-06	
112	0.000693	4.33E-05	0.003528
8.69E-05	0.000228	2.48E-06	
113	0.000695	5.16E-05	0.004241
9.14E-05	6.19E-05	2.38E-06	
114	0.000695	5.94E-05	0.004516
8.97E-05	1.45E-05	2.72E-06	
115	0.000695	6.39E-05	0.004259
7.88E-05	0.000118	4.51E-06	
116	0.000693	6.26E-05	0.003416
5.89E-05	0.000238	5.90E-06	
117	0.000692	5.30E-05	0.001970
2.79E-05	0.000352	6.02E-06	
118	0.000690	3.59E-05	8.34E-08
2.23E-05	0.000439	4.88E-06	
119	0.000689	3.87E-05	0.001602
5.65E-05	0.000480	3.79E-06	
120	0.000688	4.49E-05	0.003672
0.000104	0.000490	2.45E-06	
121	0.000688	4.63E-05	0.005356
0.000128	0.000432	1.74E-06	
122	0.000687	4.63E-05	0.006560
0.000137	0.000304	2.01E-06	
123	0.000686	4.69E-05	0.007187
0.000135	0.000158	2.61E-06	
124	0.000685	5.08E-05	0.007408
0.000131	0.000125	3.96E-06	
125	0.000683	5.33E-05	0.006986
0.000121	0.000192	5.79E-06	
126	0.000682	5.24E-05	0.005879
0.000101	0.000298	7.28E-06	
127	0.000681	4.64E-05	0.004156
6.97E-05	0.000412	8.02E-06	
128	0.000680	3.44E-05	0.001869
2.50E-05	0.000514	7.32E-06	
129	0.000680	2.51E-05	1.03E-07
1.41E-05	0.000566	6.17E-06	
130	0.000682	2.88E-05	0.001791
4.00E-05	0.000595	4.83E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
	R1	R2	R3
131	0.000684	4.43E-05	0.004060
8.91E-05	0.000590	3.05E-06	
132	0.000687	5.27E-05	0.005866
0.000118	0.000516	1.93E-06	
133	0.000689	5.56E-05	0.007124
0.000132	0.000365	1.99E-06	
134	0.000691	5.56E-05	0.007711
0.000136	0.000196	2.70E-06	
135	0.000694	5.48E-05	0.007788
0.000136	0.000146	4.33E-06	
136	0.000696	5.46E-05	0.007235
0.000132	0.000218	6.19E-06	
137	0.000698	5.16E-05	0.005988
0.000118	0.000321	7.66E-06	
138	0.000700	4.34E-05	0.004165
8.78E-05	0.000422	8.01E-06	
139	0.000702	2.99E-05	0.001847
3.79E-05	0.000512	7.03E-06	
140	0.000703	3.26E-05	1.15E-07
1.27E-05	0.000555	5.74E-06	
141	0.000704	2.96E-05	0.002014
2.72E-05	0.000580	4.29E-06	
142	0.000705	4.95E-05	0.004575
7.52E-05	0.000570	2.39E-06	
143	0.000705	5.28E-05	0.006629
0.000109	0.000496	1.19E-06	
144	0.000706	5.09E-05	0.008078
0.000130	0.000346	1.36E-06	
145	0.000706	4.53E-05	0.008814
0.000143	0.000187	2.49E-06	
146	0.000706	3.80E-05	0.009007
0.000150	0.000141	4.62E-06	
147	0.000707	3.25E-05	0.008390
0.000153	0.000236	6.79E-06	
148	0.000707	3.08E-05	0.006963
0.000144	0.000358	8.08E-06	
149	0.000707	2.75E-05	0.004859
0.000117	0.000484	8.35E-06	
150	0.000707	3.72E-05	0.002162
6.27E-05	0.000596	7.20E-06	
151	0.000707	5.47E-05	8.67E-

172	0.000881	5.95E-05	4.77E-05
8.30E-05	0.000693	8.99E-05	
173	0.000882	5.77E-05	0.002128
0.000140	0.000843	0.000102	
174	0.000884	7.11E-05	0.004649
0.000222	0.000899	0.000115	
175	0.000886	8.98E-05	0.006559
0.000264	0.000825	0.000109	
176	0.000887	0.000109	0.007864
0.000286	0.000638	9.20E-05	
177	0.000887	0.000121	0.008504
0.000291	0.000441	7.13E-05	
178	0.000888	0.000121	0.008739
0.000293	0.000343	5.92E-05	
179	0.000888	0.000106	0.008309
0.000287	0.000366	5.29E-05	
180	0.000888	8.09E-05	0.007109
0.000262	0.000479	5.09E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	0.000887	5.59E-05	0.005160
0.000210	0.000611	5.24E-05	
182	0.000887	3.67E-05	0.002413
0.000112	0.000705	5.16E-05	
183	0.000886	4.47E-05	4.73E-05
5.66E-05	0.000813	5.52E-05	
184	0.000885	6.11E-05	0.002330
0.000123	0.000958	7.13E-05	
185	0.000883	0.000101	0.005063
0.000214	0.001002	8.53E-05	
186	0.000882	0.000141	0.007104
0.000265	0.000913	8.60E-05	
187	0.000880	0.000172	0.008469
0.000291	0.000702	7.95E-05	
188	0.000879	0.000190	0.009075
0.000296	0.000494	6.83E-05	
189	0.000879	0.000192	0.009161
0.000298	0.000370	6.09E-05	
190	0.000878	0.000177	0.008595
0.000293	0.000392	6.50E-05	
191	0.000877	0.000148	0.007246
0.000268	0.000501	7.47E-05	
192	0.000875	0.000109	0.005189
0.000216	0.000620	8.55E-05	
193	0.000874	6.66E-05	0.002400
0.000124	0.000703	8.79E-05	
194	0.000873	4.61E-05	4.69E-05
5.46E-05	0.000803	8.88E-05	
195	0.000871	3.96E-05	0.002576
0.000113	0.000941	0.000104	
196	0.000870	6.18E-05	0.005628
0.000215	0.000977	0.000113	
197	0.000868	0.000103	0.007939
0.000269	0.000857	0.000104	
198	0.000867	0.000140	0.009513
0.000299	0.000678	8.57E-05	
199	0.000866	0.000165	0.010255
0.000308	0.000475	6.49E-05	
200	0.000865	0.000175	0.010504
0.000310	0.000367	5.47E-05	
201	0.000864	0.000170	0.009881
0.000309	0.000408	5.73E-05	
202	0.000864	0.000151	0.008351
0.000289	0.000537	6.77E-05	
203	0.000864	0.000123	0.005994
0.000244	0.000684	7.95E-05	
204	0.000865	9.20E-05	0.002783
0.000159	0.000794	8.59E-05	
205	0.000866	7.18E-05	7.64E-05
9.57E-05	0.000973	0.000100	
206	0.000868	5.78E-05	0.002932
0.000161	0.001115	0.000122	
207	0.000871	7.55E-05	0.005015
0.000234	0.001109	0.000123	
208	0.000873	0.000109	0.006294
0.000260	0.000974	0.000111	
209	0.000878	0.000153	0.006864
0.000268	0.000739	9.27E-05	
210	0.000881	0.000191	0.006804
0.000259	0.000505	7.19E-05	
211	0.000882	0.000217	0.006215
0.000240	0.000275	6.22E-05	
212	0.000883	0.000228	0.005198
0.000214	0.000383	6.11E-05	
213	0.000884	0.000225	0.003855
0.000182	0.000425	6.31E-05	
214	0.000883	0.000210	0.002275
0.000140	0.000450	6.50E-05	
215	0.000882	0.000189	0.000542
4.86E-05	0.000361	4.38E-05	
216	0.000881	0.000181	7.50E-05
5.47E-05	0.000355	5.38E-05	
217	0.000747	0.000122	4.87E-05
7.07E-05	0.000698	9.61E-05	
218	0.000749	9.68E-05	0.001316
5.52E-05	0.000614	7.30E-05	
219	0.000752	7.09E-05	0.002634
7.92E-05	0.000458	6.40E-05	
220	0.000754	5.63E-05	0.003729
9.66E-05	0.000263	4.99E-05	
221	0.000755	5.69E-05	0.004486
0.000108	8.26E-05	3.78E-05	
222	0.000756	5.85E-05	0.004791
0.000115	1.47E-05	4.01E-05	
223	0.000757	5.85E-05	0.004542
0.000117	0.000122	5.08E-05	
224	0.000757	5.55E-05	0.003673
0.000115	0.000253	6.33E-05	
225	0.000757	5.04E-05	0.002138
0.000100	0.000385	7.75E-05	
226	0.000757	4.33E-05	2.39E-05
8.35E-05	0.000503	8.42E-05	
227	0.000757	3.93E-05	0.001735
0.000139	0.000561	9.13E-05	
228	0.000757	3.57E-05	0.003947
0.000169	0.000574	0.000103	
229	0.000757	3.37E-05	0.005705
0.000172	0.000505	9.70E-05	
230	0.000757	3.49E-05	0.006946
0.000167	0.000354	8.26E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	0.000757	3.77E-05	0.007576
0.000159	0.000197	6.38E-05	
232	0.000757	4.01E-05	0.007808
0.000154	0.000141	4.90E-05	
233	0.000757	4.01E-05	0.007378
0.000151	0.000200	3.58E-05	
234	0.000756	3.77E-05	0.006237
0.000145	0.000311	2.92E-05	
235	0.000756	3.58E-05	0.004440
0.000131	0.000434	2.84E-05	
236	0.000756	3.22E-05	0.002008
9.39E-05	0.000555	3.12E-05	
237	0.000756	3.20E-05	2.49E-05
6.75E-05	0.000628	3.44E-05	
238	0.000756	3.42E-05	0.001929
0.000118	0.000677	4.36E-05	
239	0.000757	4.31E-05	0.004344
0.000154	0.000677	5.45E-05	
240	0.000758	5.25E-05	0.006226
0.000162	0.000595	5.76E-05	
241	0.000759	5.89E-05	0.007523
0.000163	0.000421	5.69E-05	
242	0.000760	6.19E-05	0.008121
0.000160	0.000239	5.61E-05	
243	0.000760	6.18E-05	0.008200
0.000161	0.000164	5.72E-05	
244	0.000761	5.94E-05	0.007638
0.000164	0.000225	6.52E-05	
245	0.000762	5.37E-05	0.006353
0.000163	0.000333	7.55E-05	
246	0.000763	4.59E-05	0.004454
0.000154	0.000441	8.40E-05	
247	0.000764	3.90E-05	0.001987
0.000117	0.000550	8.58E-05	
248	0.000764	3.66E-05	2.49E-05
6.68E-05	0.000615	8.40E-05	
249	0.000765	3.49E-05	0.002161
9.75E-05	0.000659	9.43E-05	
250	0.000765	3.65E-05	0.004875
0.000137	0.000656	0.000100	
251	0.000767	4.29E-05	0.007011
0.000153	0.000576	9.01E-05	
252	0.000765	4.68E-05	0.008505
0.000162	0.000408	7.24E-05	
253	0.000765	4.76E-05	0.009248
0.000168	0.000231	5.05E-05	
254	0.000765	4.57E-05	0.009455
0.000177	0.000160	3.82E-05	
255	0.000765	4.18E-05	0.008828
0.000189	0.000242	4.16E-05	
256	0.000766	3.77E-05	0.007359
0.000196	0.000369	5.25E-05	
257	0.000766	4.25E-05	0.005170
0.000194	0.000502	6.47E-05	
258	0.000769	5.50E-05	0.002307
0.000161	0.000633	7.20E-05	
259	0.000767	6.10E-05	3.78E-05
0.000100	0.000713	8.07E-05	
260	0.000768	6.44E-05	0.002442
0.000105	0.000785	9.71E-05	
261	0.000769	6.30E-05	0.004312
0.000118	0.000770	9.58E-05	
262	0.000770	5.93E-05	0.005530
0.000121	0.000661	8.55E-05	
263	0.000771	6.12E-05	0.006123
0.000121	0.000469	6.93E-05	
264	0.000773	6.17E-05	0.006135
0.000118	0.000267	5.63E-05	
265	0.000775	6.04E-05	0.005644
0.000112	0.000160	5.31E-05	
266	0.000778	5.81E-05	0.004742
0.000102	0.000208	5.74E-05	
267	0.000781	6.67E-05	0.003523
8.77E-05	0.000264	6.17E-05	
268	0.000784	9.57E-05	0.002080
6.87E-05	0.000304	6.56E-05	
269	0.000786	0.000127	0.000490
4.20E-05	0.000328	4.54E-05	
270	0.000786	0.000133	3.73E-05
5.46E-05	0.000331	5.56E-05	
271	0.000705	2.03E-05	.000000
0.000100	0.000995	8.53E-06	.000000
272	0.001619	9.13E-05	.000000
8.92E-05	0.000650	8.72E-06	.000000
273	.000000	.000000	.000000
7.03E-05	0.000788	9.67E-06	.000000
274	0.001884	6.00E-06	.000000
5.31E-05	0.001422	1.04E-05	.000000
275	0.001096	4.63E-05	.000000
0.000125	0.000895	1.14E-05	.000000
276	0.002242	2.21E-05	.000000
5.72E-05	0.000370	2.60E-06	.000000
277	0.000606	8.04E-05	.000000
8.10E-05	0.000820	4.12E-06	.000000
278	0.001422	7.98E-05	.000000
4.88E-05	0.000560	3.03E-06	.000000
279	.000000	.000000	.000000
3.07E-05	0.000690	3.69E-06	.000000
280	0.001680	5.30E-06	.000000
2.16E-05	0.000681	4.23E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.000784	2.11E-05	.000000
3.10E-05	0.000789	4.56E-06	
282	0.001960	9.45E-05	.000000
2.02E-05	0.000345	4.41E-06	
283	0.000483	7.53E-06	.000000
0.000101	0.000556	2.58E-06	
284	0.001153	2.75E-06	.000000
8.90E-05	0.001433	4.88E-06	
285	6.80E-07	2.30E-05	.000000
2.80E-05	0.000566	6.17E-06	
286	0.001375	0.000290	.000000
-4.68E-21	0.000546	5.74E-06	
287	0.000716	0.000131	.000000
-3.31E-23	0.000648	5.94E-06	
288	0.001515	0.000204	.000000
-1.40E-21	0.000316	1.38E-05	

COMB DL-G1-3 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
-0.000188	-0.000339	-3.79E-06	-3.71E-07
2	-0.000887	-9.69E-05	-0.004396
-0.000279	-0.000323	-3.04E-06	
3	-0.000886	-0.000101	-0.008511
-0.000369	-0.000282	-2.20E-06	
4	-0.000886	-0.000106	-0.011383
-0.000417	-0.000221	-2.20E-06	
5	-0.000886	-0.000109	-0.012703
-0.000419	-0.000193	-3.83E-06	
6	-0.000886	-0.000110	-0.012343
-0.000381	-0.000301	-6.74E-06	
7	-0.000887	-0.000104	-0.010434
-0.000308	-0.000539	-9.74E-06	
8	-0.000888	-9.20E-05	-0.007370
-0.000211	-0.000710	-1.17E-05	
9	-0.000891	-7.88E-05	-0.003677
-0.000105	-0.000764	-1.22E-05	
10	-0.000894	-7.58E-05	-8.58E-07
-7.42E-05	-0.000691	-9.78E-06	
11	-0.000896	-6.31E-05	-0.002503
-0.000137	-0.000596	-8.57E-06	
12	-0.000900	-6.51E-05	-0.006506
-0.000256	-0.000459	-6.31E-06	
13	-0.000904	-7.29E-05	-0.010408
-0.000361	-0.000351	-4.14E-06	
14	-0.000908	-7.98E-05	-0.013574
-0.000435	-0.000348	-2.91E-06	
15	-0.000910	-8.42E-05	-0.015392
-0.000466	-0.000213	-3.40E-06	
16	-0.000912	-8.26E-05	-0.015537
-0.000454	-0.000307	-5.09E-06	
17	-0.000912	-7.70E-05	-0.013970
-0.000403	-0.000505	-6.96E-06	
18	-0.000912	-6.57E-05	-0.010946
-0.000316	-0.000728	-9.43E-06	
19	-0.000911	-5.13E-05	-0.007028
-0.000206	-0.000843	-1.10E-05	
20	-0.000910	-5.34E-05	-0.002800
-8.79E-05	-0.000837	-1.08E-05	
21	-0.000909	-6.21E-05	-8.77E-07
-5.89E-05	-0.000758	-9.17E-06	
22	-0.000908	-6.45E-05	-0.002944
-0.000116	-0.000651	-8.29E-06	
23	-0.000905	-8.45E-05	-0.007477
-0.000238	-0.000499	-6.25E-06	
24	-0.000903	-0.000104	-0.011798
-0.000348	-0.000375	-4.13E-06	
25	-0.000900	-0.000116	-0.015274
-0.000432	-0.000257	-2.94E-06	
26	-0.000898	-0.000120	-0.017216
-0.000475	-0.000217	-3.59E-06	
27	-0.000896	-0.000123	-0.017278
-0.000475	-0.000337	-5.40E-06	
28	-0.000894	-0.000120	-0.015443
-0.000431	-0.000562	-7.49E-06	
29	-0.000892	-0.000109	-0.012026
-0.000347	-0.000800	-1.03E-05	
30	-0.000890	-8.87E-05	-0.007697
-0.000236	-0.000918	-1.22E-05	
31	-0.000888	-6.61E-05	-0.003069
-0.000112	-0.000913	-1.24E-05	
32	-0.000887	-6.23E-05	-8.73E-07
-5.65E-05	-0.000833	-1.13E-05	
33	-0.000885	-5.60E-05	-0.002892
-9.16E-05	-0.000723	-1.08E-05	
34	-0.000883	-6.42E-05	-0.007290
-0.000213	-0.000564	-8.90E-06	
35	-0.000880	-9.11E-05	-0.011419
-0.000324	-0.000435	-6.82E-06	
36	-0.000878	-0.000118	-0.014680
-0.000413	-0.000305	-5.39E-06	
37	-0.000876	-0.000138	-0.016418
-0.000466	-0.000244	-4.61E-06	
38	-0.000875	-0.000152	-0.016328
-0.000477	-0.000344	-5.41E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000875	-0.000158	-0.014432
-0.000442	-0.000547	-6.96E-06	
40	-0.000875	-0.000155	-0.011082
-0.000365	-0.000761	-9.30E-06	
41	-0.000877	-0.000139	-0.006961
-0.000259	-0.000852	-1.02E-05	
42	-0.000878	-0.000114	-0.002704
-0.000139	-0.000816	-9.80E-06	
43	-0.000879	-9.30E-05	-9.19E-07
-8.03E-05	-0.000714	-8.26E-06	
44	-0.000880	-6.82E-05	-0.004862
-0.000129	-0.000530	-8.38E-06	
45	-0.000881	-4.54E-05	-0.009973
-0.000253	-0.000354	-6.14E-06	
46	-0.000881	-4.00E-05	-0.014608
-0.000374	-0.000194	-3.72E-06	
47	-0.000880	-4.25E-05	-0.018133
-0.000475	-5.51E-05	-2.11E-06	
48	-0.000880	-4.28E-05	-0.020032
-0.000544	-4.92E-05	-1.52E-06	
49	-0.000879	-4.44E-05	-0.020005
-0.000577	-0.000256	-2.55E-06	
50	-0.000878	-4.62E-05	-0.017981
-0.000562	-0.000576	-4.67E-06	
51	-0.000877	-4.80E-05	-0.014109
-0.000501	-0.000907	-6.75E-06	
52	-0.000876	-5.04E-05	-0.008689
-0.000392	-0.001191	-7.83E-06	
53	-0.000877	-6.30E-05	-0.002096
-0.000257	-0.001374	-8.18E-06	
54	-0.000879	-6.87E-05	-4.04E-07
-0.000225	-0.001389	-8.18E-06	
55	-0.000783	-7.38E-05	-3.49E-07
-0.000136	-0.000310	-3.66E-06	
56	-0.000783	-7.06E-05	-0.003593
-0.000266	-0.000295	-2.72E-06	
57	-0.000784	-6.81E-05	-0.006970
-0.000394	-0.000555	-4.12E-06	
58	-0.000784	-6.58E-05	-0.009350
-0.000469	-0.000195	-2.40E-06	
59	-0.000784	-6.28E-05	-0.010473
-0.000483	-0.000158	-2.89E-06	
60	-0.000785	-5.86E-05	-0.010222
-0.000441	-0.000260	-3.50E-06	
61	-0.000785	-5.37E-05	-0.008688
-0.000353	-0.000458	-4.09E-06	
62	-0.000786	-4.74E-05	-0.006181
-0.000236	-0.000600	-4.46E-06	
63	-0.000787	-4.11E-05	-0.003112
-0.000112	-0.000649	-4.48E-06	
64	-0.000788	-3.56E-05	-7.98E-07
-5.78E-05	-0.000595	-4.05E-06	
65	-0.000789	-3.24E-05	-0.002121
-0.000139	-0.000521	-4.30E-06	
66	-0.000790	-3.12E-05	-0.005477
-0.000276	-0.000413	-3.27E-06	
67	-0.000791	-3.20E-05	-0.008727
-0.000402	-0.000324	-2.26E-06	
68	-0.000792	-3.28E-05	-0.011367
-0.000495	-0.000229	-1.71E-06	
69	-0.000792	-3.33E-05	-0.012892
-0.000538	-0.000181	-1.45E-06	
70	-0.000793	-3.22E-05	-0.013031
-0.000526	-0.000259	-1.61E-06	
71	-0.000790	-2.85E-05	-0.011744
-0.000460	-0.000428	-2.06E-06	
72	-0.000792	-2.32E-05	-0.009239
-0.000353	-0.000615	-2.72E-06	
73	-0.000792	-1.82E-05	-0.005971
-0.000220	-0.000715	-3.32E-06	
74	-0.000791	-1.60E-05	-0.002402
-8.65E-05	-0.000718	-2.99E-06	
75	-0.000791	-2.39E-05	-8.17E-07
-3.25E-05	-0.000659	-3.25E-06	
76	-0.000791	-3.32E-05	-0.002540
-0.000113	-0.000576	-3.74E-06	
77	-0.000790	-4.53E-05	-0.006400
-0.000252	-0.000454	-3.06E-06	
78	-0.000790	-5.50E-05	-0.010049
-0.000386	-0.000347	-2.28E-06	
79	-0.000790	-6.17E-05	-0.012976
-0.000491	-0.000240	-1.82E-06	
80	-0.000790	-6.58E-05	-0.014613
-0.000549	-0.000187	-1.60E-06	
81	-0.000790	-6.79E-05	-0.014672
-0.000548	-0.000276	-1.75E-06	
82	-0.000790	-6.64E-05	-0.013133
-0.000490	-0.000471	-2.25E-06	
83	-0.000790	-6.07E-05	-0.010260
-0.000385	-0.000675	-3.23E-06	
84	-0.000790	-5.09E-05	-0.006603
-0.000251	-0.000781	-4.27E-06	
85	-0.000789	-3.70E-05	-0.002655
-0.000111	-0.000789	-4.96E-06	
86	-0.000789	-2.52E-05	-8.14E-07
-3.02E-05	-0.000730	-4.90E-06	
87	-0.000789	-1.84E-05	-0.002485
-8.80E-05	-0.000646	-5.58E-06	
88	-0.000788	-2.85E-05	-0.006211
-0.000225	-0.000517	-5.25E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	-0.000788	-4.57E-05	-0.009674
-0.000360	-0.000407	-4.59E-06	
90	-0.000787	-6.31E-05	-0.012396
-0.000471	-0.000287	-3.99E-06	
91	-0.000787	-7.83E-05	-0.013841
-0.000539	-0.000213	-3.23E-06	
92	-0.000787	-9.03E-05	-0.013758
-0.000551	-0.000273	-2.50E-06	
93	-0.000787	-9.81E-05	-0.012167
-0.000505	-0.000446	-1.88E-06	
94	-0.000787	-0.000100	-0.009364
-0.000407	-0.000629	-1.43E-06	
95	-0.000787	-9.38E-05	-0.005910
-0.000278	-0.000713	-2.67E-06	
96	-0.000788	-8.04E-05	-0.002314
-0.000140	-0.000696	-3.42E-06	
97	-0.000788	-6.71E-05	-8.35E-07
-6.23E-05	-0.000619	-2.61E-06	
98	-0.000789	-4.32E-05	-0.004179
-0.000121	-0.000475	-3.41E-06	
99	-0.000790	-2.34E-05	-0.008502
-0.000272	-0.000331	-2.72E-06	
100	-0.000791	-1.53E-05	-0.012385
-0.000420	-0.000192	-2.38E-06	
101	-0.000792	-1.48E-05	-0.015318
-0.000546	-6.52E-05	-2.33E-06	
102	-0.000793	-1.56E-05	-0.016873
-0.000633	-4.00E-05	-2.23E-06	
103	-0.000794	-1.72E-05	-0.016803
-0.000670	-0.000193	-2.07E-06	
104	-0.000794	-2.04E-05	-0.015057
-0.000650	-0.000461	-1.92E-06	
105	-0.000795	-2.65E-05	-0.011782
-0.000567	-0.000743	-2.11E-06	
106	-0.000795	-3.22E-05	-0.007241
-0.000423	-0.000985	-2.92E-06	
107	-0.000794	-3.83E-05	-0.001747
-0.000230	-0.001148	-6.42E-06	
108	-0.000794	-4.01E-05	-3.84E-07
-0.000186	-0.001164	-7.01E-06	
109	-0.000654	-5.75E-05	-4.62E-08
-0.000190	-0.000277	-1.08E-05	
110	-0.000655	-4.94E-05	-0.002467
-0.000294	-0.000264	-1.04E-05	
111	-0.000656	-6.19E-05	-0.004863
-0.000398	-0.000229	-8.97E-06	
112	-0.000657	-9.42E-05	-0.006613
-0.000456	-0.000173	-6.62E-06	
113	-0.000658	-0.000115	-0.007489
-0.000464	-0.000109	-3.62E-06	
114	-0.000658	-0.000120	-0.007383
-0.000423	-0.000176	-1.27E-06	
115	-0.000659	-0.000109	-0.006343
-0.000342	-0.000328	-6.77E-07	
116	-0.000659	-8.54E-05	-0.004577
-0.000235	-0.000437	-1.67E-06	
117	-0.000658	-5.74E-05	-0.002360
-0.000125	-0.000484	-3.55E-06	
118	-0.000657	-3.63E-05	-1.28E-07
-9.03E-05	-0.000477	-5.64E-06	
119	-0.000655	-4.63E-05	-0.001617
-0.000152	-0.000447	-6.99E-06	
120	-0.000653	-7.66E-05	-0.004101
-0.000276	-0.000379	-8.07E-06	
121	-0.000650	-0.000101	-0.006503
-0.000391	-0.000303	-7.67E-06	
122	-0.000647	-0.000138	-0.008467
-0.000474	-0.000216	-6.29E-06	
123	-0.000645	-0.000155	-0.009618
-0.000512	-0.000141	-4.21E-06	
124	-0.000643	-0.000157	-0.009749
-0.000501	-0.000176	-2.34E-06	
125	-0.000643	-0.000144	-0.008826
-0.000443	-0.000315	-1.46E-06	
126	-0.000643	-0.000116	-0.006991
-0.000346	-0.000459	-1.32E-06	
127	-0.000643	-8.04E-05	-0.004572
-0.000226	-0.000538	-2.49E-06	
128	-0.000643	-4.53E-05	-0.001883
-0.000109	-0.000555	-4.39E-06	
129	-0.000643	-2.95E-05	-1.36E-07
-7.73E-05	-0.000537	-5.82E-06	
130	-0.000644	-3.48E-05	-0.002017
-0.000132	-0.000498	-7.09E-06	
131	-0.000645	-6.93E-05	-0.004985
-0.000258	-0.000415	-7.95E-06	
132	-0.000648	-0.000105	-0.007761
-0.000379	-0.000325	-7.39E-06	
133	-0.000650	-0.000133	-0.009985
-0.000472	-0.000225	-6.02E-06	
134	-0.000652	-0.000147	-0.011233
-0.000523	-0.000147	-4.13E-06	
135	-0.000654	-0.000147	-0.011285
-0.000522	-0.000186	-2.64E-06	
136	-0.000656	-0.000130	-0.010129
-0.000471	-0.000354	-2.03E-06	
137	-0.000657	-0.000101	-0.007953
-0.000377	-0.000514	-2.07E-06	
138	-0.000659	-6.59E-05	-0.005169
-0.000256	-0.000600	-3.19E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	-0.000660	-3.46E-05	-0.002121
-0.000129	-0.000621	-5.01E-06	
140	-0.000661	-3.63E-05	-1.32E-07
-7.56E-05	-0.000602	-6.43E-06	
141	-0.000662	-5.15E-05	-0.001959
-0.000112	-0.000562	-7.67E-06	
142	-0.000663	-8.49E-05	-0.004793
-0.000232	-0.000474	-8.44E-06	
143	-0.000665	-0.000120	-0.007392
-0.000354	-0.000380	-7.78E-06	
144	-0.000666	-0.000147	-0.009420
-0.000453	-0.000289	-6.62E-06	
145	-0.000667	-0.000162	-0.010485
-0.000514	-0.000173	-4.25E-06	
146	-0.000667	-0.000159	-0.010405
-0.000524	-0.000178	-3.07E-06	
147	-0.000667	-0.000140	-0.009203
-0.000483	-0.000328	-2.39E-06	
148	-0.000667	-0.000139	-0.007099
-0.000396	-0.000468	-2.03E-06	
149	-0.000665	-7.59E-05	-0.004512
-0.000279	-0.000533	-2.65E-06	
150	-0.000664	-6.57E-05	-0.001801
-0.000153	-0.000531	-3.95E-06	
151	-0.000663	-7.63E-05	-1.52E-07
-9.48E-05	-0.000496	-6.29E-06	
152	-0.000663	-0.000100	-0.003313
-0.000149	-

−0.000440	−0.000482	−7.59E−05	
176	−0.000850	−5.10E−05	−0.012690
−0.000546	−0.000391	−6.74E−05	
177	−0.000852	−5.23E−05	−0.014401
−0.000595	−0.000365	−6.20E−05	
178	−0.000852	−5.05E−05	−0.014543
−0.000584	−0.000460	−6.49E−05	
179	−0.000852	−4.42E−05	−0.013078
−0.000516	−0.000640	−7.29E−05	
180	−0.000851	−3.47E−05	−0.010256
−0.000398	−0.000844	−7.88E−05	
181	−0.000850	−2.75E−05	−0.006603
−0.000256	−0.000942	−7.93E−05	
182	−0.000849	−2.46E−05	−0.002640
−0.000103	−0.000914	−6.74E−05	
183	−0.000848	−3.28E−05	−6.71E−05
−4.39E−05	−0.000781	−5.29E−05	
184	−0.000847	−4.27E−05	−0.002779
−0.000125	−0.000687	−5.01E−05	
185	−0.000846	−6.35E−05	−0.007042
−0.000279	−0.000613	−5.33E−05	
186	−0.000845	−7.95E−05	−0.011087
−0.000426	−0.000504	−5.31E−05	
187	−0.000844	−8.94E−05	−0.014348
−0.000542	−0.000400	−5.51E−05	
188	−0.000843	−9.41E−05	−0.016178
−0.000600	−0.000371	−6.02E−05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	−0.000842	−9.69E−05	−0.016238
−0.000599	−0.000482	−7.07E−05	
190	−0.000842	−9.46E−05	−0.014512
−0.000541	−0.000688	−9.31E−05	
191	−0.000841	−8.58E−05	−0.011308
−0.000426	−0.000910	−0.000112	
192	−0.000840	−6.95E−05	−0.007256
−0.000279	−0.001013	−0.000121	
193	−0.000839	−4.57E−05	−0.002902
−0.000124	−0.000986	−0.000111	
194	−0.000838	−3.38E−05	−6.64E−05
−4.25E−05	−0.000854	−9.41E−05	
195	−0.000837	−2.72E−05	−0.002725
−0.000105	−0.000758	−9.19E−05	
196	−0.000835	−3.76E−05	−0.006853
−0.000261	−0.000678	−8.73E−05	
197	−0.000833	−6.24E−05	−0.010710
−0.000406	−0.000563	−7.62E−05	
198	−0.000832	−8.76E−05	−0.013760
−0.000527	−0.000445	−6.54E−05	
199	−0.000831	−0.000108	−0.015392
−0.000596	−0.000395	−5.81E−05	
200	−0.000830	−0.000122	−0.015305
−0.000606	−0.000484	−6.12E−05	
201	−0.000830	−0.000130	−0.013523
−0.000555	−0.000667	−7.58E−05	
202	−0.000830	−0.000129	−0.010387
−0.000444	−0.000866	−9.24E−05	
203	−0.000831	−0.000118	−0.006539
−0.000300	−0.000945	−0.000100	
204	−0.000832	−9.51E−05	−0.002549
−0.000145	−0.000896	−8.91E−05	
205	−0.000833	−7.07E−05	−8.71E−05
−5.52E−05	−0.000751	−7.91E−05	
206	−0.000834	−4.05E−05	−0.004567
−0.000152	−0.000644	−7.48E−05	
207	−0.000835	−2.45E−05	−0.009352
−0.000316	−0.000482	−6.19E−05	
208	−0.000836	−1.40E−05	−0.013674
−0.000469	−0.000336	−5.22E−05	
209	−0.000836	−1.48E−05	−0.016963
−0.000603	−0.000213	−4.81E−05	
210	−0.000836	−2.02E−05	−0.018727
−0.000694	−0.000210	−4.98E−05	
211	−0.000837	−2.61E−05	−0.018684
−0.000730	−0.000395	−6.40E−05	
212	−0.000837	−3.13E−05	−0.016764
−0.000702	−0.000685	−8.81E−05	
213	−0.000837	−3.59E−05	−0.013130
−0.000606	−0.000990	−0.000113	
214	−0.000838	−4.01E−05	−0.008077
−0.000443	−0.001247	−0.000139	
215	−0.000838	−4.43E−05	−0.001941
−0.000203	−0.001345	−0.000104	
216	−0.000838	−4.51E−05	−9.31E−05
−0.000124	−0.001296	−0.000124	
217	−0.000717	−6.63E−05	−0.000112
−2.11E−05	−0.000294	−4.90E−05	
218	−0.000718	−5.95E−05	−0.003090
−0.000275	−0.000278	−3.96E−05	
219	−0.000719	−5.27E−05	−0.005941
−0.000472	−0.000240	−4.02E−05	
220	−0.000720	−5.06E−05	−0.007982
−0.000564	−0.000182	−3.96E−05	
221	−0.000720	−6.18E−05	−0.008969
−0.000577	−0.000135	−4.13E−05	
222	−0.000721	−6.65E−05	−0.008790
−0.000527	−0.000224	−5.43E−05	
223	−0.000721	−6.23E−05	−0.007511
−0.000422	−0.000398	−7.30E−05	
224	−0.000722	−5.03E−05	−0.005386
−0.000276	−0.000519	−8.69E−05	
225	−0.000723	−3.74E−05	−0.002758
−0.000107	−0.000563	−9.41E−05	
226	−0.000722	−3.15E−05	−7.88E−05
−9.71E−06	−0.000529	−8.55E−05	
227	−0.000722	−3.29E−05	−0.001898
−0.000123	−0.000479	−8.19E−05	
228	−0.000721	−4.41E−05	−0.004805
−0.000310	−0.000393	−8.13E−05	
229	−0.000720	−6.00E−05	−0.007617
−0.000469	−0.000313	−7.61E−05	
230	−0.000719	−7.50E−05	−0.009905
−0.000579	−0.000222	−6.74E−05	
231	−0.000718	−8.45E−05	−0.011235
−0.000626	−0.000160	−5.85E−05	
232	−0.000718	−8.54E−05	−0.011369
−0.000614	−0.000219	−5.43E−05	
233	−0.000718	−7.67E−05	−0.010272
−0.000545	−0.000373	−5.18E−05	
234	−0.000718	−6.04E−05	−0.008114
−0.000420	−0.000538	−5.14E−05	
235	−0.000718	−4.20E−05	−0.005284
−0.000255	−0.000624	−4.91E−05	
236	−0.000718	−2.64E−05	−0.002168
−7.59E−05	−0.000634	−3.99E−05	
237	−0.000719	−2.33E−05	−7.71E−05
−8.79E−06	−0.000594	−3.21E−05	
238	−0.000719	−2.75E−05	−0.002304
−0.000106	−0.000535	−3.90E−05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	−0.000719	−4.28E−05	−0.005705
−0.000292	−0.000434	−2.91E−05	
240	−0.000720	−6.36E−05	−0.008903
−0.000457	−0.000336	−3.10E−05	
241	−0.000720	−8.03E−05	−0.011466
−0.000579	−0.000232	−3.61E−05	
242	−0.000721	−8.89E−05	−0.012900
−0.000638	−0.000165	−4.94E−05	
243	−0.000721	−8.91E−05	−0.012955
−0.000638	−0.000229	−6.34E−05	
244	−0.000722	−7.99E−05	−0.011615
−0.000578	−0.000410	−8.41E−05	
245	−0.000723	−6.31E−05	−0.009103
−0.000457	−0.000593	−0.000102	
246	−0.000723	−4.39E−05	−0.005897
−0.000292	−0.000687	−0.000111	
247	−0.000724	−3.21E−05	−0.002412
−0.000105	−0.000703	−0.000103	
248	−0.000724	−2.72E−05	−7.71E−05
−9.33E−06	−0.000665	−9.07E−05	
249	−0.000725	−2.90E−05	−0.002249
−8.00E−05	−0.000604	−9.13E−05	
250	−0.000725	−4.59E−05	−0.005514
−0.000262	−0.000497	−8.59E−05	
251	−0.000726	−7.04E−05	−0.008532
−0.000430	−0.000395	−7.34E−05	
252	−0.000726	−9.04E−05	−0.010894
−0.000557	−0.000278	−5.99E−05	
253	−0.000726	−0.000102	−0.012142
−0.000627	−0.000191	−4.66E−05	
254	−0.000726	−0.000103	−0.012060
−0.000638	−0.000220	−4.49E−05	
255	−0.000726	−9.40E−05	−0.010672
−0.000590	−0.000380	−5.54E−05	
256	−0.000726	−7.89E−05	−0.008232
−0.000476	−0.000544	−6.92E−05	
257	−0.000725	−7.10E−05	−0.005226
−0.000313	−0.000619	−7.61E−05	
258	−0.000725	−6.73E−05	−0.002086
−0.000125	−0.000613	−6.88E−05	
259	−0.000725	−6.62E−05	−0.000107
−1.19E−05	−0.000560	−6.39E−05	
260	−0.000725	−6.74E−05	−0.003781
−0.000116	−0.000450	−6.03E−05	
261	−0.000726	−7.02E−05	−0.007584
−0.000308	−0.000323	−5.06E−05	
262	−0.000727	−7.30E−05	−0.010980
−0.000486	−0.000193	−4.20E−05	
263	−0.000728	−7.57E−05	−0.013533
−0.000629	−7.07E−05	−3.68E−05	
264	−0.000729	−7.09E−05	−0.014864
−0.000724	−0.000885	−4.05E−05	
265	−0.000730	−5.69E−05	−0.014766
−0.000764	−0.000149	−5.67E−05	
266	−0.000731	−3.59E−05	−0.013201
−0.000744	−0.000393	−8.08E−05	
267	−0.000732	−2.23E−05	−0.010304
−0.000650	−0.000641	−0.000104	
268	−0.000732	−2.68E−05	−0.006328
−0.000468	−0.000850	−0.000126	
269	−0.000732	−3.36E−05	−0.001581
−0.000152	−0.000996	−9.09E−05	
270	−0.000731	−3.58E−05	−0.000111
−3.86E−05	−0.001022	−0.000113	
271	−0.001265	−1.13E−05	.000000
−0.000180	−0.000337	−2.79E−06	.000000
272	−0.001641	−9.01E−05	.000000
−9.68E−05	−0.000687	−9.78E−06	.000000
273	.000000	.000000	.000000
−7.42E−05	−0.000756	−9.17E−06	.000000
274	−0.001677	−6.74E−06	.000000
−6.05E−05	−0.000833	−1.13E−05	.000000
275	−0.001525	−3.83E−06	.000000
−0.000117	−0.000707	−8.26E−06	.000000
276	−0.001184	−1.17E−05	.000000
−0.000198	−0.001393	−8.18E−06	.000000
277	−0.001031	−4.72E−05	.000000
−0.000101	−0.000304	−3.66E−06	.000000
278	−0.001625	−7.91E−06	.000000
−6.37E−05	−0.000593	−4.00E−06	.000000
279	.000000	.000000	.000000
−4.16E−05	−0.000658	−3.25E−06	.000000
280	−0.001482	−6.01E−06	.000000
−3.47E−05	−0.000730	−4.90E−06	.000000
281	−0.001126	−2.53E−05	.000000
−3.62E−05	−0.000621	−7.91E−06	.000000
282	−0.001078	−5.20E−05	.000000
−7.56E−05	−0.001175	−7.01E−06	.000000
283	−0.000691	−2.71E−05	.000000
−0.000152	−0.000261	−1.08E−05	.000000
284	−0.001173	−9.21E−05	.000000
−0.000166	−0.000441	−5.64E−06	.000000
285	−2.95E−06	−0.000100	.000000
−8.71E−05	−0.000533	−5.82E−06	.000000
286	−0.001182	−0.000338	.000000
−2.93E−05	−0.000606	−6.43E−06	.000000
287	−0.000867	−0.000255	.000000
−4.92E−05	−0.000505	−5.26E−06	.000000
288	−0.000919	−0.000187	.000000
−7.53E−05	−0.000864	−7.31E−06	.000000

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DL-G1-4 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000939	0.000181	6.40E−08
8.62E−05	0.000954	7.63E−06	
2	0.000938	0.000192	0.001580
0.000136	0.000877	6.77E−06	
3	0.000937	0.000213	0.003191
0.000236	0.000679	5.30E−06	
4	0.000936	0.000227	0.004536
0.000291	0.000420	3.39E−06	
5	0.000936	0.000228	0.005488
0.000320	0.000160	2.26E−06	
6	0.000937	0.000214	0.005911
0.000323	7.01E−06	2.40E−06	
7	0.000938	0.000184	0.005673
0.000293	0.000125	4.29E−06	
8	0.000940	0.000143	0.004668
0.000228	0.000289	6.89E−06	
9	0.000942	0.000102	0.002787
0.000133	0.000437	8.26E−06	
10	0.000945	8.09E−05	9.56E−08
7.26E−05	0.000648	9.16E−06	
11	0.000946	7.73E−05	0.002265
0.000107	0.000747	9.92E−06	
12	0.000948	9.30E−05	0.004991
0.000205	0.000789	9.77E−06	
13	0.000950	0.000120	0.007077
0.000288	0.000708	8.34E−06	
14	0.000951	0.000147	0.008510
0.000344	0.000513	6.39E−06	
15	0.000952	0.000164	0.009217
0.000372	0.000307	5.13E−06	
16	0.000953	0.000165	0.009473
0.000376	0.000185	4.13E−06	
17	0.000952	0.000149	0.008996
0.000353	0.000229	4.12E−06	
18	0.000952	0.000119	0.007678
0.000297	0.000360	5.96E−06	
19	0.000952	8.04E−05	0.005547
0.000209	0.000512	8.52E−06	
20	0.000951	5.87E−05	0.002574
9.64E−05	0.000681	1.03E−05	
21	0.000951	6.42E−05	1.34E−07
5.64E−05	0.000792	1.01E−05	
22	0.000949	7.70E−05	0.002485
0.000100	0.000876	1.09E−05	
23	0.000947	0.000119	0.005442
0.000208	0.000894	1.07E−05	
24	0.000945	0.000164	0.007671
0.000295	0.000791	9.17E−06	
25	0.000943	0.000200	0.009169
0.000354	0.000567	6.94E−06	
26	0.000941	0.000220	0.009839
0.000381	0.000335	5.54E−06	
27	0.000939	0.000222	0.009932
0.000382	0.000214	4.32E−06	
28	0.000937	0.000205	0.009306
0.000355	0.000262	4.15E−06	
29	0.000935	0.000171	0.007825
0.000296	0.000369	6.03E−06	
30	0.000933	0.000126	0.005577
0.000208	0.000527	8.59E−06	
31	0.000931	8.09E−05	0.002558
9.83E−05	0.000681	1.05E−05	
32	0.000930	6.49E−05	1.49E−07
5.45E−05	0.000782	1.06E−05	
33	0.000929	6.06E−05	0.002754
9.81E−05	0.000855	1.15E−05	
34	0.000927	8.89E−05	0.006059
0.000214	0.000860	1.13E−05	
35	0.000925	0.000135	0.008583
0.000305	0.000751	9.80E−06	
36	0.000923	0.000173	0.010309
0.000365	0.000526	7.69E−06	
37	0.000922	0.000196	0.011135
0.000391	0.000301	5.59E−06	
38	0.000921	0.000200	0.011394
0.000389	0.000213	4.34E−06	
39	0.000926	0.000189	0.010705
0.000362	0.000285	4.01E−06	
40	0.000919	0.000164	0.009023
0.000304	0.000435	5.66E−06	
41	0.000919	0.000129	0.006445
0.000219	0.000603	8.49E−06	
42	0.000920	9.70E−05	0.002962
0.000117	0.000726	1.08E−05	
43	0.000921	8.30E−05	9.23E−08
8.62E−05	0.000906	1.14E−05	
44	0.000922	8.01E−05	0.003134
0.000154	0.001012	1.44E−05	
45	0.000924	0.000109	0.005398
0.000259	0.000988	1.43E−05	
46	0.000926	0.000154	0.006805
0.000334	0.000833	1.27E−05	
47	0.000928	0.000201	0.007442
0.000375	0.000571	1.06E−05	
48	0.000929	0.000234	0.007390
0.000386	0.000314	8.18E−06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000929	0.000252	0.006757
0.000370	0.000222	6.03E−06	
50	0.000928	0.000253	0.005655
0.000330	0.000256	4.73E−06	
51	0.000926	0.000241	0.004193
0.000267	0.000317	4.53E−06	
52	0.000925	0.000219	0.002473
0.000180	0.000361	5.24E−06	
53	0.000924	0.000203	0.000582
7.86E−05	0.000385	6.96E−06	
54	0.000924	0.000204	5.56E−08
6.15E−05	0.000387	7.22E−06	
55	0.000888	0.000128	4.03E−08
5.80E−05	0.000891	5.92E−06	
56	0.000887	0.000127	0.001492
0.000112	0.000812	4.36E−06	
57	0.000887	0.000127	0.003014
0.000186	0.000622	2.39E−06	
58	0.000887	0.000123	0.004283
0.000243	0.000379	1.60E−06	
59	0.000887	0.000114	0.005174
0.000275	0.000143	1.20E−06	
60	0.000889	0.000102	0.005558
0.000282	1.78E−05	1.39E−06	
61	0.000890	8.79E−05	0.005315
0.000263	0.000124	1.81E−06	
62	0.000892	7.35E−05	0.004357
0.000213	0.000277	2.45E−06	
63	0.000894	6.17E−05	0.002596
0.000132	0.000440	3.21E−06	
64	0.000895	5.34E−05	6.76E−08
6.78E−05	0.000609	3.20E−06	
65	0.000896	4.58E−05	0.002113
0.000118	0.000701	4.38E−06	
66	0.000897	3.77E−05	0.004670
0.000204	0.000734	4.11E−06	
67	0.000898	3.61E−05	0.006652
0.000272	0.000654	3.20E−06	
68	0.000899	3.87E−05	0.008031
0.000317	0.000471	2.50E−06	
69	0.000900	4.15E−05	0.008720
0.000338	0.000278	1.97E−06	
70	0.000900	4.16E−05	0.008975
0.000339	0.000175	1.73E−06	
71	0.000900	3.75E−05	0.008509
0.000317	0.000221	1.84E−06	
72	0.000900	3.11E−05	0.007242
0.000271	0.000346	2.27E−06	
73	0.000900	2.85E−05	0.005217
0.000197	0.000488	3.24E−06	
74	0.000899	2.57E−05	0.002416
9.70E−05	0.000644	4.08E−06	
75	0.000899	3.46E−05	1.01E−07
3.98E−05	0.000749	3.94E−06	
76	0.000898	4.46E−05	0.002329
0.000102	0.000827	5.11E−06	
77	0.000898	5.98E−05	0.005113
0.000199	0.000839	4.87E−06	
78	0.000898	7.69E−05	0.007234
0.000272	0.000739	3.93E−06	
79	0.000898	9.10E−05	0.008676
0.000322	0.000528	3.04E−06	
80	0.000898	0.000100	0.009330
0.000345	0.000311	2.31E−06	
81	0.000898	0.000101	0.009419
0.000346	0.000201	1.80E−06	
82	0.000898	9.64E−05	0.008807
0.000324	0.000253	1.75E−06	
83	0.000898	8.44E−05	0.007381
0.000274	0.000374	2.31E−06	
84	0.000898	6.74E−05	0.005241
0.000200	0.000502	3.25E−06	
85	0.000898	4.98E−05	0.002398
0.000102	0.000642	4.28E−06	
86	0.000898	3.65E−05	1.18E−07
3.72E−05	0.000768	4.43E−06	
87	0.000897	2.66E−05	0.002588
9.66E−05	0.000806	5.61E−06	
88	0.000897	2.97E−05	0.005708
0.000200	0.000808	5.60E−06	
89	0.000896	4.44E−05	0.008112
0.000277	0.000704	4.89E−06	
90	0.000896	6.11E−05	0.009774
0.000329	0.000494	4.01E−06	
91	0.000895	7.49E−05	0.010577
0.000354	0.000285	3.00E−06	
92	0.000895	8.37E−05	0.010826
0.000358	0.000196	2.16E−06	
93	0.000895	8.27E−05	0.010148
0.000339	0.000274	1.52E−06	
94	0.000895	8.51E−05	0.008524
0.000295	0.000417	1.47E−06	
95	0.000896	7.80E−05	0.006065
0.000226	0.000573	3.06E−06	
96	0.000897	7.00E−05	0.002778
0.000135	0.000740	4.91E−06	
97	0.000898	6.46E−05	5.58E−08
8.52E−05	0.000853	4.65E−06	
98	0.000900	5.29E−05	0.002934
0.000145	0.000953	6.51E−06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	0.000902	4.61E−05	0.005067
0.000238	0.000927	6.76E−06	
100	0.000904	5.03E−05	0.006416
0.000300	0.000782	6.67E−06	
101	0.000907	6.78E−05	0.007045
0.000333	0.000539	6.32E−06	
102	0.000909	8.85E−05	0.007020
0.000342	0.000305	5.67E−06	
103	0.000911	0.000107	0.006434
0.000330	0.000193	4.87E−06	
104	0.000913	0.000123	0.005394
0.000294	0.000242	3.92E−06	
105	0.000914	0.000134	0.004004
0.000235	0.000303	3.35E−06	
106	0.000914	0.000138	0.002363
0.000156	0.000346	2.51E−06	
107	0.000913	0.000135	0.000557
7.43E−05	0.000369	4.15E−06	
108	0.000912	0.000134	3.92E−08
6.85E−05	0.000371	4.44E−06	
109	0.000816	0.000107	5.98E−08
5.63E−05	0.000731	6.21E−06	
110	0.000818	7.88E−05	0.001411
6.97E−05	0.000671	5.91E−06	
111	0.000820	7.26E−05	0.002850
9.73E−05	0.000520	5.03E−06	
112	0.000821	8.67E−05	0.004048
0.000123	0.000315	3.81E−06	
113	0.000823	9.76E−05	0.004882
0.000139	0.000104	2.54E−06	
114	0.000824	0.000101	0.005228
0.000142	1.91E−05	2.56E−06	
115	0.000824	9.63E−05	0.004972
0.000128	0.000122	4.20E−06	
116	0.000824	8.25E−05	0.004037
9.80E−05	0.000266	5.82E−06	
117	0.000824	6.25E−05	0.002367
5.55E−05	0.000411	6.66E−06	
118	0.000824	4.17E−05	9.13E−08
3.27E−05	0.000540	6.57E−06	
119	0.000824	4.18E−05	0.001924
5.55E−05	0.000607	5.21E−06	
120	0.000824	5.21E−05	0.004331
0.000110	0.000631	5.44E−06	
121	0.000823	6.40E−05	0.006236
0.000150	0.000562	4.60E−06	
122	0.000823	7.48E−05	0.007575
0.000175	0.000402	4.26E−06	
123	0.000823	8.23E−05	0.008257
0.000185	0.000225	3.81E−06	
124	0.000822	8.62E−05	0.008501
0.000187	0.000156	4.29E−06	
125	0.000821	8.24E−05	0.008042
0.000175	0.000213	5.68E−06	
126	0.000820	7.08E−05	0.006813
0.000145	0.000334	7.01E−06	
127	0.000820	5.15E−05	0.004865
9.89E−05	0.000468	8.05E−06	
128	0.000819	2.97E−05	0.002220
4.13E−05	0.000602	8.28E−06	
129	0.000819	2.47E−05	1.20E−07
2.11E−05	0.000681	7.93E−06	
130	0.000819	3.65E−05	0.002135
4.53E−05	0.000734	7.32E−06	
131	0.000821	6.50E−05	0.004763
0.000105	0.000737	6.13E−06	
132	0.000822	8.79E−05	0.006804
0.000150	0.000649	4.86E−06	
133	0.000824	0.000103	0.008203
0.000179	0.000462	4.24E−06	
134	0.000825	0.000110	0.008843
0.000191	0.000262	3.93E−06	
135	0.000827	0.000110	0.008929
0.000192	0.000181	4.70E−06	
136	0.000824	0.000102	0.008328
0.000180	0.000245	6.11E−06	
137	0.000830	8.70E−05	0.006942
0.000151	0.000362	7.38E−06	
138	0.000831	6.38E−05	0.004884
0.000105	0.000483	8.16E−06	
139	0.000832	3.61E−05	0.002199
4.42E−05	0.000614	9.16E−06	
140	0.000832	2.94E−05	1.34E−07
1.97E−05	0.000671	7.70E−06	
141	0.000833	3.72E−05	0.002384
4.27E−05	0.000715	7.04E−06	
142	0.000833	5.94E−05	0.005336
0.000104	0.000711	5.77E−06	
143	0.000833	7.89E−05	0.007650
0.000152	0.000619	4.46E−06	
144	0.000833	9.15E−05	0.009261
0.000185	0.000434	3.81E−06	
145	0.000833	9.56E−05	0.010058
0.000199	0.000244	3.71E−06	
146	0.000832	9.15E−05	0.010282
0.000200	0.000174	4.66E−06	
147	0.000832	8.19E−05	0.009613
0.000191	0.000268	6.31E−06	
148	0.000832	7.02E−05	0.008033
0.000164	0.000406	7.45E−06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000833	5.40E−05	0.005665
0.000121	0.000628	8.29E−06	
150	0.000833	4.88E−05	0.002558
6.34E−05	0.000698	8.29E−06	
151	0.000833	5.61E−05	9.29E−08
4.20E−05	0.000782	7.95E−06	
152	0.000834	6.70E−05	0.002695
7.19E−05	0.000850	7.28E−06	
153	0.000835	8.55E−05	0.004727
0.000122	0.000825	6.26E−06	
154	0.000836	0.000102	0.006040
0.000160	0.000697	5.33E−06	
155	0.000837	0.000112	0.006668
0.000183	0.000482	5.00E−06	
156	0.000839	0.000114	0.006666
0.000188	0.000268	4.48E−06	
157	0.000842	0.000109	0.006121
0.000177	0.000170	6.70E−06	
158	0.000844	0.000100	0.005136

0.000351	0.000473	6.43E-05	
181	0.000925	4.87E-05	0.005405
0.000257	0.000614	6.91E-05	
182	0.000924	3.18E-05	0.002514
0.000120	0.000722	6.98E-05	
183	0.000923	3.93E-05	6.12E-05
4.93E-05	0.000828	7.25E-05	
184	0.000922	5.49E-05	0.002425
0.000121	0.000960	8.93E-05	
185	0.000921	8.99E-05	0.005301
0.000252	0.000998	0.000103	
186	0.000919	0.000124	0.007475
0.000349	0.000905	0.000101	
187	0.000919	0.000152	0.008940
0.000411	0.000687	9.08E-05	
188	0.000919	0.000168	0.009599
0.000437	0.000466	7.41E-05	
189	0.000918	0.000170	0.009690
0.000438	0.000914	6.09E-05	
190	0.000917	0.000158	0.009074
0.000414	0.000383	5.98E-05	
191	0.000916	0.000132	0.007625
0.000353	0.000501	6.91E-05	
192	0.000915	9.77E-05	0.005433
0.000256	0.000627	8.07E-05	
193	0.000914	6.01E-05	0.002498
0.000122	0.000721	8.54E-05	
194	0.000913	4.09E-05	6.09E-05
4.73E-05	0.000817	8.73E-05	
195	0.000912	3.36E-05	0.002689
0.000120	0.000939	0.000103	
196	0.000911	5.30E-05	0.005907
0.000261	0.000965	0.000114	
197	0.000910	8.78E-05	0.008369
0.000360	0.000867	0.000106	
198	0.000909	0.000119	0.010059
0.000423	0.000649	9.00E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000908	0.000141	0.010868
0.000448	0.000436	7.16E-05	
200	0.000907	0.000149	0.011127
0.000447	0.000342	6.34E-05	
201	0.000906	0.000145	0.010447
0.000422	0.000405	6.77E-05	
202	0.000906	0.000128	0.008800
0.000363	0.000544	7.94E-05	
203	0.000904	0.000104	0.006286
0.000271	0.000700	9.19E-05	
204	0.000907	7.86E-05	0.002900
0.000145	0.000821	9.73E-05	
205	0.000908	6.32E-05	8.72E-05
8.40E-05	0.000984	0.000111	
206	0.000910	5.36E-05	0.003053
0.000188	0.001112	0.000132	
207	0.000912	6.89E-05	0.005254
0.000311	0.001093	0.000131	
208	0.000915	9.67E-05	0.006629
0.000385	0.000945	0.000119	
209	0.000917	0.000132	0.007257
0.000428	0.000694	9.86E-05	
210	0.000920	0.000163	0.007215
0.000438	0.000452	7.64E-05	
211	0.000921	0.000185	0.006603
0.000419	0.000350	6.71E-05	
212	0.000922	0.000194	0.005531
0.000375	0.000374	6.65E-05	
213	0.000923	0.000191	0.004105
0.000303	0.000423	6.84E-05	
214	0.000923	0.000179	0.002425
0.000201	0.000453	7.11E-05	
215	0.000923	0.000163	0.000581
5.04E-05	0.000382	4.77E-05	
216	0.000923	0.000157	9.12E-05
5.85E-05	0.000377	5.38E-05	
217	0.000850	0.000119	4.66E-05
8.98E-05	0.000971	0.000126	
218	0.000851	0.000102	0.001460
0.000102	0.000837	9.55E-05	
219	0.000852	8.85E-05	0.002933
0.000175	0.000668	8.45E-05	
220	0.000853	8.38E-05	0.004160
0.000229	0.000446	6.70E-05	
221	0.000854	8.74E-05	0.005017
0.000259	0.000229	5.18E-05	
222	0.000855	8.68E-05	0.005376
0.000264	0.000125	5.02E-05	
223	0.000856	8.02E-05	0.005120
0.000246	0.000221	5.75E-05	
224	0.000857	6.81E-05	0.004167
0.000209	0.000364	6.77E-05	
225	0.000858	5.59E-05	0.002444
0.000154	0.000517	8.06E-05	
226	0.000859	4.64E-05	2.41E-05
0.000101	0.000629	8.50E-05	
227	0.000859	4.11E-05	0.001978
0.000145	0.000740	9.37E-05	
228	0.000860	3.89E-05	0.004468
0.000213	0.000778	0.000105	
229	0.000860	4.47E-05	0.006417
0.000260	0.000708	9.83E-05	
230	0.000861	5.31E-05	0.007779
0.000296	0.000537	8.36E-05	
231	0.000861	6.03E-05	0.008464
0.000312	0.000356	6.84E-05	
232	0.000861	6.27E-05	0.008718
0.000313	0.000269	5.79E-05	
233	0.000861	5.85E-05	0.008253
0.000294	0.000312	6.49E-05	
234	0.000860	4.85E-05	0.007001
0.000255	0.000430	4.78E-05	
235	0.000860	3.63E-05	0.005010
0.000199	0.000565	5.11E-05	
236	0.000860	2.72E-05	0.002281
0.000122	0.000669	5.42E-05	
237	0.000860	2.94E-05	2.59E-05
7.71E-05	0.000759	5.75E-05	
238	0.000860	3.70E-05	0.002194
0.000130	0.000861	7.14E-05	
239	0.000860	5.64E-05	0.004907
0.000205	0.000884	8.41E-05	
240	0.000860	7.65E-05	0.006993
0.000259	0.000796	8.42E-05	
241	0.000861	9.14E-05	0.008417
0.000297	0.000597	7.78E-05	
242	0.000861	9.93E-05	0.009066
0.000315	0.000392	6.87E-05	
243	0.000862	9.93E-05	0.009154
0.000316	0.000263	5.10E-05	
244	0.000863	9.22E-05	0.008544
0.000299	0.000342	6.27E-05	
245	0.000863	7.79E-05	0.007134
0.000261	0.000457	7.26E-05	
246	0.000864	5.90E-05	0.005031
0.000207	0.000576	8.24E-05	
247	0.000864	4.07E-05	0.002260
0.000130	0.000666	8.54E-05	
248	0.000864	3.27E-05	2.58E-05
7.59E-05	0.000745	8.59E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000864	2.97E-05	0.002448
0.000124	0.000840	0.000100	
250	0.000864	4.08E-05	0.005490
0.000204	0.000855	0.000109	
251	0.000864	5.92E-05	0.007854
0.000263	0.000764	0.000101	
252	0.000864	7.32E-05	0.009494
0.000306	0.000567	8.38E-05	
253	0.000864	8.08E-05	0.010295
0.000327	0.000372	6.33E-05	
254	0.000864	8.12E-05	0.010530
0.000330	0.000286	5.16E-05	
255	0.000864	7.49E-05	0.009852
0.000317	0.000363	5.58E-05	
256	0.000864	6.43E-05	0.008244
0.000282	0.000499	6.78E-05	
257	0.000864	5.85E-05	0.005824
0.000234	0.000646	8.11E-05	
258	0.000865	5.92E-05	0.002619
0.000164	0.000760	8.66E-05	
259	0.000866	5.94E-05	3.81E-05
0.000114	0.000891	9.81E-05	
260	0.000867	5.93E-05	0.002777
0.000164	0.000993	0.000118	
261	0.000868	6.24E-05	0.004867
0.000226	0.000974	0.000116	
262	0.000870	7.27E-05	0.006204
0.000274	0.000841	0.000104	
263	0.000872	8.62E-05	0.006838
0.000307	0.000615	8.38E-05	
264	0.000874	9.52E-05	0.006829
0.000319	0.000396	6.68E-05	
265	0.000876	9.83E-05	0.006268
0.000309	0.000262	6.12E-05	
266	0.000878	9.52E-05	0.005258
0.000276	0.000326	8.40E-05	
267	0.000880	9.61E-05	0.003902
0.000219	0.000378	6.76E-05	
268	0.000881	0.000110	0.002301
0.000141	0.000412	7.10E-05	
269	0.000882	0.000125	0.000538
5.66E-05	0.000368	4.75E-05	
270	0.000881	0.000127	4.18E-05
7.15E-05	0.000366	5.81E-05	
271	0.000699	1.92E-05	.000000
0.000101	0.000955	7.63E-06	
272	0.001629	9.15E-05	.000000
9.32E-05	0.000644	9.16E-06	
273	0.000000	0.000000	.000000
7.49E-05	0.000791	1.01E-05	
274	0.001905	6.05E-06	.000000
5.81E-05	0.000782	1.06E-05	
275	0.001078	4.59E-05	.000000
0.000135	0.000898	1.14E-05	
276	0.002222	2.19E-05	.000000
5.60E-05	0.000388	7.22E-06	
277	0.000656	8.73E-05	.000000
0.000112	0.000888	5.92E-06	
278	0.001541	8.66E-05	.000000
7.29E-05	0.000606	3.20E-06	
279	.000000	.000000	.000000
5.27E-05	0.000748	3.94E-06	
280	0.001823	5.75E-06	.000000
4.15E-05	0.000738	4.43E-06	
281	0.001021	2.29E-05	.000000
4.99E-05	0.000855	4.65E-06	
282	0.002125	0.000102	.000000
3.57E-05	0.000375	4.44E-06	
283	0.000637	2.04E-07	.000000
0.000137	0.000731	6.21E-06	
284	0.001381	4.80E-21	.000000
0.000120	0.000526	6.57E-06	
285	8.04E-07	2.72E-05	.000000
3.74E-05	0.000681	7.93E-06	
286	0.001634	0.000346	.000000
1.02E-21	0.000691	7.70E-06	
287	0.000893	0.000150	.000000
9.00E-22	0.000777	7.95E-06	
288	0.001866	0.000248	.000000
3.52E-21	0.000358	1.23E-05	

COMB DL-G1-4 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000896	-0.000105	-3.12E-07
-0.000166	-0.000353	-8.29E-06	
2	-0.000895	-0.000116	-0.004210
-0.000240	-0.000337	-6.85E-06	
3	-0.000894	-0.000136	-0.008177
-0.000316	-0.000294	-4.57E-06	
4	-0.000893	-0.000150	-0.010969
-0.000362	-0.000230	-3.55E-06	
5	-0.000893	-0.000155	-0.012274
-0.000369	-0.000187	-4.11E-06	
6	-0.000893	-0.000153	-0.011958
-0.000342	-0.000267	-5.96E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000894	-0.000140	-0.010140
-0.000284	-0.000504	-8.24E-06	
8	-0.000895	-0.000118	-0.007192
-0.000202	-0.000677	-1.02E-05	
9	-0.000897	-9.30E-05	-0.003612
-0.000107	-0.000741	-1.12E-05	
10	-0.000899	-8.37E-05	-7.19E-07
-6.60E-05	-0.000686	-1.02E-05	
11	-0.000901	-7.86E-05	-0.002462
-0.000121	-0.000605	-1.03E-05	
12	-0.000903	-8.96E-05	-0.006368
-0.000232	-0.000479	-8.60E-06	
13	-0.000906	-0.000134	-0.010167
-0.000328	-0.000372	-6.17E-06	
14	-0.000908	-0.000126	-0.013256
-0.000394	-0.000264	-4.37E-06	
15	-0.000909	-0.000135	-0.015036
-0.000423	-0.000212	-4.16E-06	
16	-0.000910	-0.000134	-0.015191
-0.000414	-0.000283	-4.93E-06	
17	-0.000911	-0.000124	-0.013677
-0.000372	-0.000481	-5.96E-06	
18	-0.000911	-0.000104	-0.010740
-0.000298	-0.000703	-8.07E-06	
19	-0.000910	-7.71E-05	-0.006922
-0.000199	-0.000820	-9.75E-06	
20	-0.000910	-6.48E-05	-0.002777
-8.81E-05	-0.000824	-1.02E-05	
21	-0.000909	-6.76E-05	-7.37E-07
-5.35E-05	-0.000758	-9.60E-06	
22	-0.000908	-7.19E-05	-0.002931
-0.000106	-0.000663	-1.00E-05	
23	-0.000907	-7.53E-05	-0.007401
-0.000221	-0.000519	-8.51E-06	
24	-0.000905	-0.000132	-0.011645
-0.000321	-0.000394	-6.17E-06	
25	-0.000904	-0.000153	-0.015058
-0.000395	-0.000271	-4.41E-06	
26	-0.000903	-0.000162	-0.016966
-0.000432	-0.000216	-4.32E-06	
27	-0.000901	-0.000165	-0.017032
-0.000432	-0.000320	-5.23E-06	
28	-0.000900	-0.000157	-0.015236
-0.000394	-0.000549	-6.49E-06	
29	-0.000899	-0.000137	-0.011885
-0.000320	-0.000786	-8.92E-06	
30	-0.000898	-0.000105	-0.007631
-0.000220	-0.000905	-1.09E-05	
31	-0.000897	-7.33E-05	-0.003062
-0.000104	-0.000906	-1.16E-05	
32	-0.000896	-6.81E-05	-7.33E-07
-5.16E-05	-0.000838	-1.15E-05	
33	-0.000895	-6.66E-05	-0.002873
-9.16E-05	-0.000739	-1.22E-05	
34	-0.000894	-8.77E-05	-0.007196
-0.000206	-0.000586	-1.08E-05	
35	-0.000893	-0.000125	-0.011235
-0.000307	-0.000456	-8.42E-06	
36	-0.000892	-0.000158	-0.014418
-0.000384	-0.000319	-6.54E-06	
37	-0.000891	-0.000180	-0.016109
-0.000427	-0.000243	-5.19E-06	
38	-0.000890	-0.000191	-0.016013
-0.000435	-0.000335	-5.36E-06	
39	-0.000890	-0.000190	-0.014156
-0.000404	-0.000543	-6.28E-06	
40	-0.000891	-0.000176	-0.010880
-0.000334	-0.000751	-7.93E-06	
41	-0.000892	-0.000149	-0.006851
-0.000235	-0.000839	-9.51E-06	
42	-0.000893	-0.000120	-0.002677
-0.000123	-0.000896	-9.38E-06	
43	-0.000893	-0.000104	-7.72E-07
-7.17E-05	-0.000713	-8.75E-06	
44	-0.000894	-9.37E-05	-0.004840
-0.000128	-0.000542	-9.97E-06	
45	-0.000895	-8.71E-05	-0.009875
-0.000240	-0.000369	-7.96E-06	
46	-0.000896	-9.38E-05	-0.014421
-0.000342	-0.000206	-5.43E-06	
47	-0.000895	-0.000104	-0.017867
-0.000424	-6.07E-05	-3.59E-06	
48	-0.000895	-0.000107	-0.019706
-0.000477	-4.74E-05	-2.65E-06	
49	-0.000894	-0.000106	-0.019647
-0.000499	-0.000269	-7.67E-06	
50	-0.000894	-0.000101	-0.017627
-0.000482	-0.000592	-4.47E-06	
51	-0.000893	-9.05E-05	-0.013799
-0.000425	-0.000913	-5.97E-06	
52	-0.000892	-7.60E-05	-0.008474
-0.000332	-0.001280	-6.85E-06	
53	-0.000892	-6.67E-05	-0.002040
-0.000221	-0.001343	-7.20E-06	
54	-0.000893	-6.70E-05	-3.39E-07
-0.000195	-0.001355	-7.21E-06	
55	-0.000851	-0.000103	-3.75E-07
-0.000122	-0.000337	-3.55E-06	
56	-0.000851	-9.15E-05	-0.003894
-0.000224	-0.000322	-2.76E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000851	-8.40E-05	-0.007555
-0.000337	-0.000280	-2.20E-06	
58	-0.000851	-8.13E-05	-0.010134
-0.000407	-0.000216	-2.43E-06	
59	-0.000851	-7.89E-05	-0.011352
-0.000427	-0.000166	-2.75E-06	
60	-0.000851	-7.58E-05	-0.011080
-0.000399	-0.000259	-3.34E-06	
61	-0.000852	-7.24E-05	-0.009418
-0.000330	-0.000474	-4.12E-06	
62	-0.000853	-6.88E-05	-0.006700
-0.000231	-0.000636	-4.94E-06	
63	-0.000854	-6.71E-05	-0.003374
-0.000118	-0.000697	-5.34E-06	
64	-0.000855	-6.47E-05	-8.61E-07
-5.32E-05	-0.000643	-4.01E-06	
65	-0.000856	-5.87E-05	-0.002300
-0.000121	-0.000567	-4.17E-06	
66	-0.000857	-5.13E-05	-0.005940
-0.000254	-0.000453	-3.34E-06	
67	-0.000858	-4.76E-05	-0.009466
-0.000371	-0.000356	-2.52E-06	
68	-0.000859	-4.66E-05	-0.012329
-0.000455	-0.000253	-2.03E-06	
69	-0.000859	-4.65E-05	-0.013983
-0.000493	-0.000195	-1.74E-06	
70	-0.000859	-4.53E-05	-0.014134
-0.000483	-0.000269	-1.80E-06	
71	-0.000859	-4.26E-05	-0.012740
-0.000430	-0.000451	-2.21E-06	
72	-0.000859	-3.88E-05	-0.010022
-0.000338	-0.000658	-3.04E-06	
73	-0.000858	-3.65E-05	-0.006477
-0.000219	-0.000770	-4.04E-06	
74	-0.000858	-3.82E-05	-0.002605
-8.94E-05	-0.000777	-4.45E-06	
75	-0.000858	-4.77E-05	-8.81E-07
-2.89E-05	-0.000715	-3.45E-06	
76	-0.000857	-5.48E-05	-0.002754
-0.000104	-0.000626	-2.78E-06	
77	-0.000857	-6.25E-05	-0.006942
-0.000240	-0.000494	-3.20E-06	
78	-0.000856	-7.03E-05	-0.010901
-0.000362	-0.000378	-2.52E-06	
79	-0.000856	-7.66E-05	-0.014077
-0.000455	-0.000262	-1.89E-06	
80	-0.000856	-8.03E-05	-0.015852
-0.000504	-0.000202	-1.89E-06	
81	-0.000856	-8.24E-05	-0.015915
-0.000504	-0.000297	-1.98E-06	
82	-0.000856	-8.09E-05	-0.014247
-0.000455	-0.000512	-2.51E-06	
83	-0.000856	-7.55E-05	-0.011130
-0.000362	-0.000735	-3.65E-06	
84	-0.000856	-6.75E-05	-0.007163
-0.000240	-0.000850	-5.06E-06	
85	-0.000855	-5.81E-05	-0.002879
-0.000103	-0.000857	-5.84E-06	
86	-0.000855	-4.88E-05	-8.78E-07
-2.65E-05	-0.000792	-4.15E-06	
87	-0.000855	-4.02E-05	-0.002695
-9.01E-05	-0.000700	-5.74E-06	
88	-0.000854	-4.61E-05	-0.006737
-0.000224	-0.000560	-5.50E-06	
89	-0.000853	-6.00E-05	-0.010495
-0.000346	-0.000440	-4.93E-06	
90	-0.000852	-7.22E-05	-0.013448
-0.000442	-0.000309	-4.33E-06	
91	-0.000852	-9.31E-05	-0.015015
-0.000498	-0.000231	-3.55E-06	
92	-0.000852	-0.000106	-0.014925
-0.000508	-0.000305	-2.78E-06	
93	-0.000852	-0.000114	-0.013199
-0.000467	-0.000500	-2.17E-06	
94	-0.000852	-0.000117	-0.010158
-0.000380	-0.000696	-2.14E-06	
95	-0.000853	-0.000113	-0.006411
-0.000259	-0.000783	-3.35E-06	
96	-0.000853	-0.000104	-0.002510
-0.000122	-0.000759	-2.02E-06	
97	-0.000854	-9.34E-05	-9.00E-07
-5.74E-05	-0.000672	-2.74E-06	
98	-0.000855	-6.76E-05	-0.004532
-0.000127	-0.000512	-3.29E-06	
99	-0.000855	-4.38E-05	-0.009221
-0.000264	-0.000354	-2.66E-06	
100	-0.000857	-3.20E-05	-0.013433
-0.000389	-0.000203	-2.36E-06	
101	-0.000857	-2.87E-05	-0.016613
-0.000491	-6.48E-05	-2.32E-06	
102	-0.000858	-2.85E-05	-0.018297
-0.000557	-5.38E-05	-2.20E-06	
103	-0.000858	-2.96E-05	-0.018220
-0.000582	-0.000238	-2.02E-06	
104	-0.000859	-3.27E-05	-0.016327
-0.000557	-0.000538	-1.90E-06	
105	-0.000859	-3.84E-05	-0.012775
-0.000481	-0.000838	-2.33E-06	
106	-0.000859	-4.56E-05	-0.007850
-0.000356	-0.001090	-3.66E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	-0.000858	-5.71E-05	-0.001894
-0.000203	-0.001252	-7.46E-06	
108	-0.000858	-6.14E-05	-4.12E-07
-0.000178	-0.001265	-8.08E-06	
109	-0.000782	-9.12E-05	-1.49E-07
-0.000223	-0.000319	-9.88E-06	
110	-0.000782	-7.85E-05	-0.003241
-0.000294	-0.000305	-9.53E-06	
111	-0.000783	-8.60E-05	-0.006344
-0.000372	-0.000266	-8.28E-06	
112	-0.000783	-0.000113	-0.008571
-0.000417	-0.000205	-6.25E-06	
113	-0.000784	-0.000132	-0.009650
-0.000422	-0.000140	-3.74E-06	
114	-0.000785	-0.000138	-0.009461
-0.000390	-0.000226	-2.65E-06	
115	-0.000785	-0.000130	-0.008075
-0.000326	-0.000412	-3.10E-06	
116	-0.000785	-0.000150	-0.005779
-0.000240	-0.000551	-4.55E-06	
117	-0.000786	-8.30E-05	-0.002942
-0.000150	-0.000608	-6.11E-06	
118	-0.000785	-6.30E-05	-3.71E-07
-0.000120	-0.000582	-7.30E-06	
119	-0.000785	-6.87E-05	-0.002013
-0.000170	-0.000531	-7.69E-06	
120	-0.000784	-9.22E-05	-0.005156
-0.000275	-0.000437	-8.10E-06	
121	-0.000782	-0.000119	-0.008204
-0.000373	-0.000346	-7.45E-06	
122	-0.000781	-0.000142	-0.010688
-0.000444	-0.000247	-6.26E-06	
123	-0.000781	-0.000157	-0.012134
-0.000475	-0.000174	-4.55E-06	
124	-0.000779	-0.000158	-0.012280
-0.000466	-0.000230	-3.44E-06	
125	-0.000778	-0.000147	-0.011087
-0.000420	-0.000394	-3.49E-06	
126	-0.000778	-0.000123	-0.008744
-0.000339	-0.000576	-4.04E-06	
127	-0.000778	-9.13E-05	-0.005679
-0.000237	-0.000674	-5.40E-06	
128	-0.000778	-5.96E-05	-0.002310
-0.000135	-0.000687	-6.76E-06	
129	-0.000777	-4.99E-05	-3.83E-07
-0.000106	-0.000649	-7.00E-06	
130	-0.000778	-5.91E-05	-0.002457
-0.000151	-0.000587	-8.00E-06	
131	-0.000779	-9.34E-05	-0.006135
-0.000260	-0.000475	-7.99E-06	
132	-0.000780	-0.000126	-0.009599
-0.000364	-0.000367	-7.17E-06	
133	-0.000781	-0.000151	-0.012380
-0.000443	-0.000253	-5.98E-06	
134	-0.000782	-0.000163	-0.013938
-0.000484	-0.000182	-4.51E-06	
135	-0.000783	-0.000163	-0.013997
-0.000484	-0.000250	-3.86E-06	
136	-0.000785	-0.000149	-0.012542
-0.000443	-0.000448	-4.27E-06	
137	-0.000786	-0.000123	-0.009816
-0.000363	-0.000646	-5.01E-06	
138	-0.000786	-8.97E-05	-0.006342
-0.000259	-0.000748	-6.38E-06	
139	-0.000787	-5.76E-05	-0.002575
-0.000150	-0.000782	-7.73E-06	
140	-0.000788	-5.42E-05	-3.80E-07
-0.000104	-0.000722	-8.49E-06	
141	-0.000788	-6.68E-05	-0.002397
-0.000138	-0.000656	-9.03E-06	
142	-0.000788	-0.000101	-0.005930
-0.000243	-0.000538	-9.00E-06	
143	-0.000789	-0.000135	-0.009200
-0.000347	-0.000425	-8.10E-06	
144	-0.000789	-0.000163	-0.011764
-0.000430	-0.000298	-6.64E-06	
145	-0.000789	-0.000178	-0.013119
-0.000479	-0.000210	-4.87E-06	
146	-0.000789	-0.000180	-0.013030
-0.000488	-0.000248	-4.12E-06	
147	-0.000788	-0.000167	-0.011521
-0.000454	-0.000430	-4.26E-06	
148	-0.000788	-0.000142	-0.008871
-0.000379	-0.000603	-4.48E-06	
149	-0.000787	-0.000111	-0.005612
-0.000278	-0.000679	-5.34E-06	
150	-0.000787	-9.64E-05	-0.002217
-0.000171	-0.000663	-6.16E-06	
151	-0.000787	-9.94E-05	-4.09E-07
-0.000124	-0.000603	-6.76E-06	
152	-0.000787	-0.000110	-0.004036
-0.000170	-0.000482	-7.38E-06	
153	-0.000787	-0.000132	-0.008149
-0.000279	-0.000341	-7.01E-06	
154	-0.000788	-0.000152	-0.011829
-0.000388	-0.000199	-5.85E-06	
155	-0.000790	-0.000161	-0.014595
-0.000477	-6.64E-05	-4.38E-06	
156	-0.000791	-0.000157	-0.016042
-0.000536	-4.01E-05	-3.26E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000792	-0.000140	-0.015936
-0.000560	-0.000186	-3.40E-06	
158	-0.000793	-0.000114	-0.014236
-0.000548	-0.000465	-4.41E-06	
159	-0.000793	-7.86E-05	-0.011085
-0.000493	-0.000729	-5.63E-06	
160	-0.000795	-4.70E-05	-0.006764
-0.000396	-0.000942	-6.70E-06	
161	-0.000794	-5.56E-05	-0.001619
-0.000269	-0.001068	-7.28E-06	
162	-0.000794	-5.93E-05	-1.59E-07
-0.000244	-0.001078	-7.33E-06	
163	-0.000874	-8.87E-05	-0.000107
-0.000170	-0.000371	-7.51E-05	
164	-0.000873	-9.94E-05	-0.004079
-0.000234	-0.000460	-6.54E-05	
165	-0.000873	-0.000110	-0.007939
-0.

184	-0.000881	-5.66E-05	-0.002859
-0.000134	-0.000705	-6.86E-05	
185	-0.000881	-8.02E-05	-0.007224
-0.000273	-0.000620	-7.00E-05	
186	-0.000852	-0.000100	-0.011360
-0.000399	-0.000505	-6.65E-05	
187	-0.000879	-0.000114	-0.014690
-0.000496	-0.000392	-6.47E-05	
188	-0.000879	-0.000120	-0.016556
-0.000544	-0.000347	-6.50E-05	
189	-0.000878	-0.000123	-0.016620
-0.000543	-0.000452	-7.07E-05	
190	-0.000878	-0.000118	-0.014865
-0.000496	-0.000670	-8.67E-05	
191	-0.000877	-0.000106	-0.011595
-0.000400	-0.000900	-0.000105	
192	-0.000876	-8.55E-05	-0.007450
-0.000275	-0.001009	-0.000115	
193	-0.000876	-5.94E-05	-0.002988
-0.000134	-0.000990	-0.000106	
194	-0.000875	-4.80E-05	-6.17E-05
-6.10E-05	-0.000872	-9.11E-05	
195	-0.000874	-4.37E-05	-0.002800
-0.000124	-0.000779	-9.05E-05	
196	-0.000873	-5.91E-05	-0.007019
-0.000265	-0.000685	-8.77E-05	
197	-0.000872	-8.72E-05	-0.010952
-0.000389	-0.000565	-7.86E-05	
198	-0.000871	-0.000114	-0.014056
-0.000489	-0.000437	-6.99E-05	
199	-0.000870	-0.000134	-0.015709
-0.000543	-0.000373	-6.41E-05	
200	-0.000871	-0.000146	-0.015616
-0.000551	-0.000463	-6.84E-05	
201	-0.000870	-0.000151	-0.013801
-0.000508	-0.000661	-8.38E-05	
202	-0.000870	-0.000145	-0.010608
-0.000414	-0.000863	-0.000101	
203	-0.000871	-0.000130	-0.006684
-0.000289	-0.000942	-0.000109	
204	-0.000872	-0.000108	-0.002612
-0.000149	-0.000894	-9.79E-05	
205	-0.000872	-8.78E-05	-8.10E-05
-7.57E-05	-0.000758	-8.75E-05	
206	-0.000873	-6.64E-05	-0.004705
-0.000173	-0.000642	-8.30E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000874	-5.77E-05	-0.009607
-0.000310	-0.000476	-6.95E-05	
208	-0.000875	-5.29E-05	-0.014023
-0.000433	-0.000322	-5.87E-05	
209	-0.000875	-5.56E-05	-0.017374
-0.000538	-0.000189	-5.00E-05	
210	-0.000876	-5.98E-05	-0.019158
-0.000607	-0.000186	-5.31E-05	
211	-0.000876	-6.27E-05	-0.019093
-0.000629	-0.000396	-6.78E-05	
212	-0.000876	-6.37E-05	-0.017117
-0.000599	-0.000703	-9.31E-05	
213	-0.000876	-6.19E-05	-0.013392
-0.000513	-0.001011	-0.000119	
214	-0.000876	-5.75E-05	-0.008227
-0.000373	-0.001262	-0.000147	
215	-0.000877	-5.34E-05	-0.001982
-0.000193	-0.001358	-0.000109	
216	-0.000877	-5.25E-05	-9.23E-05
-0.000169	-0.001314	-0.000131	
217	-0.000816	-9.32E-05	-0.000186
-8.39E-05	-0.000345	-6.42E-05	
218	-0.000816	-7.97E-05	-0.003688
-0.000244	-0.000407	-5.56E-05	
219	-0.000816	-7.20E-05	-0.007074
-0.000411	-0.000359	-5.50E-05	
220	-0.000817	-7.11E-05	-0.009489
-0.000489	-0.000303	-5.35E-05	
221	-0.000817	-8.15E-05	-0.010645
-0.000506	-0.000258	-5.45E-05	
222	-0.000818	-8.65E-05	-0.010404
-0.000472	-0.000353	-6.64E-05	
223	-0.000818	-8.35E-05	-0.008860
-0.000394	-0.000549	-8.62E-05	
224	-0.000819	-7.30E-05	-0.006332
-0.000277	-0.000695	-9.59E-05	
225	-0.000819	-6.11E-05	-0.003233
-0.000132	-0.000747	-0.000101	
226	-0.000819	-5.70E-05	-0.000142
-2.88E-05	-0.000689	-9.49E-05	
227	-0.000820	-5.49E-05	-0.002224
-0.000124	-0.000593	-8.10E-05	
228	-0.000820	-5.99E-05	-0.005636
-0.000294	-0.000529	-8.13E-05	
229	-0.000820	-7.15E-05	-0.008940
-0.000431	-0.000439	-7.32E-05	
230	-0.000820	-8.38E-05	-0.011633
-0.000525	-0.000343	-6.51E-05	
231	-0.000820	-9.20E-05	-0.013197
-0.000565	-0.000286	-6.21E-05	
232	-0.000819	-9.24E-05	-0.013345
-0.000556	-0.000357	-6.59E-05	
233	-0.000819	-8.47E-05	-0.012037
-0.000502	-0.000527	-7.16E-05	
234	-0.000819	-7.04E-05	-0.009487
-0.000398	-0.000720	-7.70E-05	
235	-0.000819	-5.37E-05	-0.006164
-0.000257	-0.000818	-7.79E-05	
236	-0.000819	-4.17E-05	-0.002523
-9.26E-05	-0.000812	-6.72E-05	
237	-0.000818	-4.38E-05	-0.000136
-2.02E-05	-0.000723	-5.49E-05	
238	-0.000818	-4.88E-05	-0.002670
-0.000109	-0.000650	-5.29E-05	
239	-0.000819	-6.47E-05	-0.006624
-0.000280	-0.000569	-5.18E-05	
240	-0.000819	-8.43E-05	-0.010353
-0.000425	-0.000461	-4.98E-05	
241	-0.000819	-9.95E-05	-0.013352
-0.000528	-0.000350	-5.16E-05	
242	-0.000819	-0.000107	-0.015033
-0.000577	-0.000294	-5.87E-05	
243	-0.000819	-0.000107	-0.015094
-0.000577	-0.000380	-6.79E-05	
244	-0.000820	-9.93E-05	-0.013517
-0.000529	-0.000582	-8.48E-05	
245	-0.000820	-8.39E-05	-0.010575
-0.000426	-0.000792	-0.000104	
246	-0.000820	-6.54E-05	-0.006839
-0.000281	-0.000894	-0.000114	
247	-0.000820	-5.20E-05	-0.002791
-0.000109	-0.000890	-0.000106	
248	-0.000821	-4.56E-05	-0.000136
-2.01E-05	-0.000800	-9.21E-05	
249	-0.000821	-4.43E-05	-0.002611
-9.56E-05	-0.000723	-9.31E-05	
250	-0.000821	-6.11E-05	-0.006419
-0.000263	-0.000634	-9.06E-05	
251	-0.000820	-8.59E-05	-0.009951
-0.000408	-0.000520	-7.99E-05	
252	-0.000820	-0.000107	-0.012730
-0.000515	-0.000396	-6.89E-05	
253	-0.000820	-0.000120	-0.014206
-0.000571	-0.000322	-5.92E-05	
254	-0.000820	-0.000125	-0.014116
-0.000580	-0.000381	-5.94E-05	
255	-0.000820	-0.000120	-0.012485
-0.000539	-0.000565	-7.36E-05	
256	-0.000819	-0.000108	-0.009619
-0.000441	-0.000750	-8.99E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000819	-0.000100	-0.006099
-0.000299	-0.000826	-9.74E-05	
258	-0.000820	-9.40E-05	-0.002430
-0.000127	-0.000796	-8.74E-05	
259	-0.000820	-8.90E-05	-0.000166
-3.01E-05	-0.000690	-7.21E-05	
260	-0.000820	-8.12E-05	-0.004365
-0.000140	-0.000586	-7.55E-05	
261	-0.000821	-7.78E-05	-0.008784
-0.000305	-0.000436	-6.36E-05	
262	-0.000822	-7.98E-05	-0.012743
-0.000448	-0.000292	-5.34E-05	
263	-0.000823	-8.21E-05	-0.015734
-0.000561	-0.000164	-4.67E-05	
264	-0.000824	-7.80E-05	-0.017314
-0.000632	-0.000153	-4.94E-05	
265	-0.000824	-6.58E-05	-0.017222
-0.000658	-0.000315	-6.62E-05	
266	-0.000825	-4.79E-05	-0.015414
-0.000635	-0.000598	-7.52E-05	
267	-0.000825	-3.68E-05	-0.012048
-0.000556	-0.000877	-0.000119	
268	-0.000825	-4.19E-05	-0.007414
-0.000405	-0.001104	-0.000144	
269	-0.000825	-5.14E-05	-0.001846
-0.000162	-0.001213	-0.000104	
270	-0.000824	-5.52E-05	-0.000167
-9.70E-05	-0.001190	-0.000127	
271	-0.001198	-1.12E-05	.000000
-0.000159	-0.000351	-8.29E-06	
272	-0.001644	-9.06E-05	.000000
-8.96E-05	-0.000683	-1.02E-05	
273	.000000	.000000	.000000
-6.96E-05	-0.000756	-9.60E-06	
274	-0.001690	-6.82E-06	.000000
-5.56E-05	-0.000837	-1.15E-05	
275	-0.001313	-3.77E-05	.000000
-0.000109	-0.000707	-8.75E-06	
276	-0.001214	-1.20E-05	.000000
-0.000171	-0.001358	-7.21E-06	
277	-0.001119	-5.12E-05	.000000
-9.11E-05	-0.000332	-3.55E-06	
278	-0.001557	-8.57E-05	.000000
-6.18E-05	-0.000642	-4.01E-06	
279	.000000	.000000	.000000
-3.96E-05	-0.000714	-3.45E-06	
280	-0.001636	-9.52E-05	.000000
-3.12E-05	-0.000792	-5.20E-06	
281	-0.001221	-2.74E-05	.000000
-3.02E-05	-0.000674	-2.74E-06	
282	-0.001167	-5.63E-05	.000000
-5.97E-05	-0.001275	-8.08E-06	
283	-0.000936	-6.15E-05	.000000
-0.000189	-0.000296	-9.88E-06	
284	-0.001420	-0.000104	.000000
-0.000216	-0.000537	-7.30E-06	
285	-4.53E-06	-0.000153	.000000
-0.000119	-0.000645	-7.50E-06	
286	-0.001410	-0.000427	.000000
-4.30E-05	-0.000128	-7.39E-06	
287	-0.001065	-0.000321	.000000
-6.79E-05	-0.000613	-6.76E-06	
288	-0.001068	-0.000257	.000000
-7.24E-05	-0.001099	-7.33E-06	

COMB DL-G2-1 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000327	2.70E-05	1.83E-08
4.66E-05	0.000339	9.28E-06	
2	0.000324	4.15E-05	0.000557
6.68E-05	0.000315	7.26E-06	
3	0.000323	5.67E-05	0.001124
8.33E-05	0.000249	3.36E-06	
4	0.000323	6.68E-05	0.001598
9.22E-05	0.000158	9.59E-07	
5	0.000323	6.64E-05	0.001935
9.80E-05	5.86E-05	4.04E-07	
6	0.000323	6.01E-05	0.002087
0.000104	3.47E-06	2.86E-07	
7	0.000324	4.91E-05	0.002005
0.000104	4.45E-05	3.74E-07	
8	0.000326	3.23E-05	0.001651
9.23E-05	0.000103	5.63E-07	
9	0.000328	1.85E-05	0.000984
7.05E-05	0.000167	8.87E-07	
10	0.000329	1.32E-05	2.55E-08
4.73E-05	0.000229	2.40E-06	
11	0.000330	1.06E-05	0.000799
5.62E-05	0.000265	5.17E-06	
12	0.000330	1.50E-05	0.001764
7.82E-05	0.000282	5.02E-06	
13	0.000331	2.23E-05	0.002501
9.37E-05	0.000255	3.34E-06	
14	0.000332	3.58E-05	0.003004
0.000102	0.000186	2.04E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
15	0.000332	4.06E-05	0.003250
0.000104	0.000110	1.28E-06	
16	0.000333	4.08E-05	0.003339
0.000106	6.64E-05	8.76E-07	
17	0.000333	3.64E-05	0.003173
0.000108	8.10E-05	8.08E-07	
18	0.000334	2.58E-05	0.002710
0.000101	0.000127	9.84E-07	
19	0.000334	1.15E-05	0.001958
8.21E-05	0.000181	1.15E-06	
20	0.000335	1.03E-06	0.000907
5.45E-05	0.000241	1.48E-06	
21	0.000335	3.50E-06	3.92E-08
3.77E-05	0.000279	2.59E-06	
22	0.000335	1.07E-05	0.000875
5.31E-05	0.000308	5.27E-06	
23	0.000334	2.75E-05	0.001919
7.90E-05	0.000315	5.19E-06	
24	0.000334	4.60E-05	0.002705
9.64E-05	0.000280	3.59E-06	
25	0.000334	5.92E-05	0.003231
0.000104	0.000201	2.24E-06	
26	0.000334	6.61E-05	0.003464
0.000106	0.000117	1.43E-06	
27	0.000335	6.68E-05	0.003496
0.000106	7.45E-05	9.20E-07	
28	0.000335	6.11E-05	0.003278
0.000105	9.20E-05	7.85E-07	
29	0.000335	4.85E-05	0.002759
9.69E-05	0.000137	9.65E-07	
30	0.000335	3.00E-05	0.001967
7.94E-05	0.000186	1.15E-06	
31	0.000335	1.22E-05	0.000901
5.30E-05	0.000240	1.58E-06	
32	0.000335	3.83E-06	4.50E-08
3.70E-05	0.000275	2.82E-06	
33	0.000335	1.55E-06	0.000969
5.40E-05	0.000299	5.36E-06	
34	0.000335	1.45E-05	0.002136
8.24E-05	0.000301	5.34E-06	
35	0.000335	3.27E-05	0.003024
0.000101	0.000262	3.87E-06	
36	0.000335	4.70E-05	0.003628
0.000109	0.000182	2.56E-06	
37	0.000336	5.63E-05	0.003911
0.000109	0.000102	1.47E-06	
38	0.000336	5.98E-05	0.004005
0.000108	7.07E-05	7.83E-07	
39	0.000336	5.72E-05	0.003766
0.000106	9.93E-05	4.70E-07	
40	0.000337	4.84E-05	0.003176
9.86E-05	0.000152	6.86E-07	
41	0.000337	3.39E-05	0.002270
8.33E-05	0.000212	1.02E-06	
42	0.000338	1.90E-05	0.001042
6.09E-05	0.000276	1.53E-06	
43	0.000338	1.27E-05	2.43E-08
5.08E-05	0.000317	2.95E-06	
44	0.000339	6.52E-06	0.001106
7.28E-05	0.000352	6.84E-06	
45	0.000341	1.45E-05	0.001907
9.33E-05	0.000342	6.24E-06	
46	0.000343	3.34E-06	0.002402
0.000102	0.000287	4.76E-06	
47	0.000344	5.11E-05	0.002624
9.87E-05	0.000193	3.52E-06	
48	0.000345	6.53E-05	0.002602
9.11E-05	0.000103	2.50E-06	
49	0.000345	7.41E-05	0.002376
8.37E-05	6.63E-05	1.53E-06	
50	0.000345	7.72E-05	0.001987
7.60E-05	8.91E-05	6.28E-07	
51	0.000345	7.38E-05	0.001473
7.10E-05	0.000111	1.86E-07	
52	0.000343	6.26E-05	0.000869
6.13E-05	0.000126	2.07E-07	
53	0.000342	4.68E-05	0.000205
3.94E-05	0.000135	5.13E-07	
54	0.000341	4.28E-05	1.47E-08
3.41E-05	0.000136	5.57E-07	
55	0.000315	7.88E-05	1.42E-08
1.36E-05	0.000326	5.02E-07	
56	0.000316	6.12E-05	0.000516
1.91E-05	0.000342	4.84E-07	
57	0.000316	5.35E-05	0.001042
2.47E-05	0.000218	5.14E-07	
58	0.000316	5.22E-05	0.001481
2.87E-05	0.000130	4.60E-07	
59	0.000316	5.00E-05	0.001789
3.06E-05	5.01E-05	3.77E-07	
60	0.000316	4.50E-05	0.001923
2.99E-05	3.51E-06	4.66E-07	
61	0.000317	3.92E-05	0.001843
2.60E-05	4.24E-05	9.31E-07	
62	0.000317	3.59E-05	0.001518
1.73E-05	9.45E-05	2.05E-06	
63	0.000318	3.35E-05	0.000913
5.21E-06	0.000152	3.10E-06	
64	0.000318	4.28E-05	2.35E-08
1.41E-05	0.000217	1.35E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	0.000318	3.60E-05	0.000745
2.52E-05	0.000252	9.67E-07	
66	0.000319	2.57E-05	0.001629
3.72E-05	0.000263	1.24E-06	
67	0.000320	2.24E-05	0.002308
4.31E-05	0.000232	1.37E-06	
68	0.000320	2.32E-05	0.002781
4.46E-05	0.000165	1.19E-06	
69	0.000320	2.39E-05	0.003018
4.33E-05	0.000101	9.48E-07	
70	0.000320	2.35E-05	0.003106
4.18E-05	6.25E-05	6.89E-07	
71	0.000320	2.15E-05	0.002946
3.83E-05	7.63E-05	6.62E-07	
72	0.000320	1.88E-05	0.002512
3.19E-05	0.000119	1.27E-06	
73	0.000319	1.58E-05	0.001818
2.11E-05	0.000168	2.49E-06	
74	0.000319	2.92E-05	0.000849
5.27E-06	0.000224	3.14E-06	
75	0.000319	3.70E-05	3.55E-08
5.03E-06	0.000266	1.69E-06	
76	0.000319	3.64E-05	0.000819
1.66E-05	0.000297	1.27E-06	
77	0.000318	3.34E-05	0.001781
3.06E-05	0.000301	1.52E-06	
78	0.000317	3.64E-05	0.002508
3.87E-05	0.000265	1.63E-06	
79	0.000317	4.24E-05	0.003002
4.24E-05	0.000190	1.40E-06	
80	0.000316	4.66E-05	0.003227
4.31E-05	0.000116	1.09E-06	
81	0.000316	4.74E-05	0.003258
4.33E-05	7.30E-05	7.45E-07	
82	0.000315	4.44E-05	0.003048
4.24E-05	8.68E-05	6.25E-07	
83	0.000318	3.90E-05	0.002559
3.85E-05	0.000128	1.26E-06	
84	0.000314	3.60E-05	0.001826
3.01E-05	0.000172	2.51E-06	
85	0.000314	3.80E-05	0.000843
1.56E-05	0.000224	3.21E-06	
86	0.000313	3.76E-05	4.11E-08
3.84E-06	0.000253	1.99E-06	
87	0.000313	2.94E-05	0.000909
6.27E-06	0.000291	1.50E-06	
88	0.000312	2.20E-05	0.001987
2.29E-05	0.000293	1.81E-06	
89	0.000312	2.40E-05	0.002812
3.41E-05	0.000256	1.99E-06	
90	0.000311	3.06E-05	0.003382
4.12E-05	0.000182	1.77E-06	
91	0.000311	3.75E-05	0.003658
4.54E-05	0.000110	1.29E-06	
92	0.000310	4.12E-05	0.003744
4.81E-05	7.22E-05	7.98E-07	
93	0.000310	4.17E-05	0.003511
5.09E-05	9.39E-05	5.18E-07	
94	0.000310	3.97E-05	0.002953
5.01E-05	0.000143	9.49E-07	
95	0.000310	3.90E-05	0.002109
4.42E-05	0.000197	2.49E-06	
96	0.000310	4.42E-05	0.000974
3.15E-05	0.000258	3.56E-06	
97	0.000310	4.72E-05	1.94E-08
1.99E-05	0.000303	2.11E-06	
98	0.000311	3.65E-05	0.001030
5.70E-06	0.000345	1.77E-06	
99	0.000311	2.53E-05	0.001764
1.72E-05	0.000337	2.35E-06	
100	0.000312	2.57E-05	0.002224
2.67E-05	0.000286	2.66E-06	
101	0.000313	3.25E-05	0.002439
3.17E-05	0.000201	2.61E-06	
102	0.000314	4.17E-05	0.002429
3.37E-05	0.000118	2.24E-06	
103	0.000314	5.00E-05	0.002226
3.35E-05	7.21E-05	1.71E-06	
104	0.000314	5.58E-05	0.001866
3.18E-05	8.32E-05	1.13E-06	
105	0.000314	5.86E-05	0.001385
2.87E-05	0.000104	9.41E-07	
106	0.000314	6.02E-05	0.000818
2.45E-05	0.000119	1.94E-06	
107	0.000314	6.75E-05	0.000193
1.98E-05	0.000128	3.80E-06	
108	0.000314	7.24E-05	1.37E-08
1.92E-05	0.000128	4.10E-06	
109	0.000267	6.18E-05	1.97E-08
3.11E-05	0.000226	6.91E-07	
110	0.000269	4.01E-05	0.000476
2.78E-05	0.000206	6.83E-07	
111	0.000271	2.44E-05	0.000963
2.61E-05	0.000159	6.66E-07	
112	0.000272	1.94E-05	0.001366
2.76E-05	9.31E-05	6.60E-07	
113	0.000273	1.75E-05	0.001646
2.85E-05	2.41E-05	7.42E-07	
114	0.000273	1.91E-05	0.001759
2.80E-05	2.68E-06	1.22E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000273	2.22E-05	0.001666
2.57E-05	4.37E-05	2.00E-06	
116	0.000272	2.59E-05	0.001344
2.03E-05	9.18E-05	2.49E-06	
117	0.000271	2.90E-05	0.000780
1.47E-05	0.000138	2.16E-06	
118	0.000271	2.92E-05	3.00E-08
1.66E-05	0.000175	1.30E-06	
119	0.000271	2.75E-05	0.000633
2.77E-05	0.000192	6.86E-07	
120	0.000271	2.31E-05	0.001443
3.95E-05	0.000198	4.07E-07	
121	0.000271	1.83E-05	0.002092
4.35E-05	0.000176	4.23E-07	
122	0.000271	1.52E-05	0.002551
4.32E-05	0.000124	4.34E-07	
123	0.000270	1.44E-05	0.002784
4.07E-05	6.49E-05	7.13E-07	
124	0.000270	1.44E-05	0.002870
3.92E-05	4.86E-05	1.27E-06	
125	0.000270	1.63E-05	0.002712
3.68E-05	7.32E-05	1.98E-06	
126	0.000269	1.99E-05	0.002290
3.27E-05	0.000114	2.80E-06	
127	0.000269	2.25E-05	0.001626
2.49E-05	0.000160	3.06E-06	
128	0.000268	2.51E-05	0.000735
1.44E-05	0.000201	2.51E-06	
129	0.000268	2.55E-05	3.88E-08
1.33E-05	0.000223	1.77E-06	
130	0.000268	2.38E-05	0.000705
2.04E-05	0.000236	1.05E-06	
131	0.000269	2.19E-05	0.001590
3.32E-05	0.000236	6.14E-07	
132	0.000270	1.97E-05	0.002285
3.90E-05	0.000208	5.51E-07	
133	0.000271	1.81E-05	0.002765
4.09E-05	0.000147	5.00E-07	
134	0.000272	1.72E-05	0.002986
4.07E-05	7.93E-05	8.06E-07	
135	0.000272	1.74E-05	0.003016
4.08E-05	5.74E-05	1.37E-06	
136	0.000273	1.86E-05	0.002808
4.08E-05	8.36E-05	2.06E-06	
137	0.000274	2.05E-05	0.002333
3.88E-05	0.000123	2.85E-06	
138	0.000274	2.29E-05	0.001631
3.28E-05	0.000164	3.03E-06	
139	0.000275	2.57E-05	0.000727
1.97E-05	0.000201	2.33E-06	
140	0.000275	2.74E-05	4.33E-08
1.30E-05	0.000219	1.48E-06	
141	0.000275	2.62E-05	0.000790
1.47E-05	0.000230	7.34E-07	
142	0.000275	2.27E-05	0.001786
2.66E-05	0.000228	3.59E-07	
143	0.000276	1.79E-05	0.002576
3.48E-05	0.000200	3.24E-07	
144	0.000276	1.41E-05	0.003128
3.93E-05	0.000141	3.56E-07	
145	0.000276	1.15E-05	0.003403
4.23E-05	7.56E-05	9.32E-07	
146	0.000276	1.02E-05	0.003480
4.45E-05	5.58E-05	1.60E-06	
147	0.000276	1.08E-05	0.003249
4.74E-05	9.06E-05	2.34E-06	
148	0.000276	1.31E-05	0.002707
4.79E-05	0.000138	3.03E-06	
149	0.000276	1.88E-05	0.001898
4.33E-05	0.000187	3.19E-06	
150	0.000276	2.91E-05	0.000849
3.01E-05	0.000233	2.40E-06	
151	0.000276	3.37E-05	3.00E-08
1.77E-05	0.000257	1.54E-06	
152	0.000276	3.46E-05	0.000892
1.63E-05	0.000276	5.97E-07	
153	0.000276	3.12E-05	0.001581
2.19E-05	0.000269	4.39E-07	
154	0.000276	2.65E-05	0.002032
2.68E-05	0.000230	4.05E-07	
155	0.000276	2.17E-05	0.002253
2.94E-05	0.000161	7.27E-07	
156	0.000277	1.72E-05	0.002257
3.07E-05	8.74E-05	1.52E-06	
157	0.000278	1.30E-05	0.002076
3.06E-05	5.50E-05	2.32E-06	
158	0.000279	1.17E-05	0.001743
2.93E-05	7.79E-05	3.18E-06	
159	0.000281	1.37E-05	0.001294
2.69E-05	9.81E-05	4.10E-06	
160	0.000282	2.70E-05	0.000763
2.44E-05	0.000112	4.98E-06	
161	0.000284	5.11E-05	0.000180
2.58E-05	0.000120	5.45E-06	
162	0.000285	5.85E-05	1.74E-08
2.64E-05	0.000120	5.46E-06	
163	0.000324	4.39E-05	6.57E-06
2.26E-

7.85E-05	0.000365	2.59E-05	
188	0.000325	7.17E-05	0.003351
7.68E-05	0.000291	1.95E-05	
189	0.000325	7.24E-05	0.003382
7.69E-05	0.000241	1.61E-05	
190	0.000325	6.66E-05	0.003169
7.86E-05	0.000240	1.73E-05	
191	0.000324	5.48E-05	0.002665
7.44E-05	0.000275	2.09E-05	
192	0.000324	3.90E-05	0.001899
5.87E-05	0.000315	2.50E-05	
193	0.000324	2.26E-05	0.000864
2.81E-05	0.000303	2.54E-05	
194	0.000324	1.23E-05	1.15E-07
1.08E-05	0.000340	2.69E-05	
195	0.000324	8.90E-06	0.000930
2.43E-05	0.000430	3.45E-05	
196	0.000324	2.22E-05	0.002064
5.64E-05	0.000456	3.81E-05	
197	0.000323	3.76E-05	0.002924
7.43E-05	0.000425	3.49E-05	
198	0.000323	5.23E-05	0.003511
8.02E-05	0.000349	2.76E-05	
199	0.000323	6.20E-05	0.003789
7.97E-05	0.000279	1.68E-05	
200	0.000322	6.58E-05	0.003880
8.05E-05	0.000239	1.43E-05	
201	0.000322	6.35E-05	0.003645
8.37E-05	0.000247	1.41E-05	
202	0.000322	5.54E-05	0.003072
8.12E-05	0.000289	1.70E-05	
203	0.000322	4.22E-05	0.002194
6.86E-05	0.000340	2.13E-05	
204	0.000323	2.96E-05	0.001002
3.99E-05	0.000338	2.22E-05	
205	0.000323	2.23E-05	6.97E-06
3.19E-05	0.000438	2.85E-05	
206	0.000325	1.63E-05	0.001061
4.93E-05	0.000505	3.67E-05	
207	0.000326	2.22E-05	0.001838
6.74E-05	0.000502	3.68E-05	
208	0.000327	3.79E-05	0.002318
7.12E-05	0.000449	3.27E-05	
209	0.000328	5.42E-05	0.002535
6.86E-05	0.000361	2.55E-05	
210	0.000328	6.84E-05	0.002518
6.16E-05	0.000281	1.81E-05	
211	0.000329	7.79E-05	0.002304
5.65E-05	0.000237	1.48E-05	
212	0.000329	8.15E-05	0.001929
5.56E-05	0.000236	1.54E-05	
213	0.000329	7.89E-05	0.001431
5.76E-05	0.000242	1.59E-05	
214	0.000328	6.99E-05	0.000845
5.97E-05	0.000241	1.59E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000326	5.66E-05	0.000201
2.24E-05	0.000139	9.62E-06	
216	0.000326	5.14E-05	5.29E-06
2.00E-05	0.000132	1.18E-05	
217	0.000290	6.79E-05	6.09E-05
2.92E-05	0.000284	3.78E-05	
218	0.000291	4.93E-05	0.000501
1.89E-05	0.000251	2.79E-05	
219	0.000293	3.50E-05	0.001004
2.50E-05	0.000187	2.32E-05	
220	0.000293	2.70E-05	0.001424
2.88E-05	0.000108	1.63E-05	
221	0.000294	2.36E-05	0.001716
3.07E-05	3.39E-05	1.22E-05	
222	0.000294	2.27E-05	0.001838
3.14E-05	2.03E-06	1.34E-05	
223	0.000294	2.28E-05	0.001752
3.24E-05	4.37E-05	1.72E-05	
224	0.000294	2.52E-05	0.001429
3.47E-05	9.45E-05	2.15E-05	
225	0.000294	3.01E-05	0.000845
3.42E-05	0.000148	2.66E-05	
226	0.000294	3.34E-05	3.96E-05
3.70E-05	0.000198	3.62E-05	
227	0.000294	2.89E-05	0.000690
5.34E-05	0.000223	3.37E-05	
228	0.000295	2.04E-05	0.001536
5.63E-05	0.000231	3.81E-05	
229	0.000295	1.51E-05	0.002199
5.13E-05	0.000204	3.56E-05	
230	0.000295	1.29E-05	0.002663
4.68E-05	0.000143	2.99E-05	
231	0.000295	1.15E-05	0.002898
4.34E-05	8.12E-05	2.25E-05	
232	0.000295	1.15E-05	0.002985
4.20E-05	5.41E-05	1.70E-05	
233	0.000295	1.25E-05	0.002826
4.07E-05	7.47E-05	1.27E-05	
234	0.000294	1.44E-05	0.002399
4.06E-05	0.000117	9.79E-06	
235	0.000294	1.84E-05	0.001721
4.13E-05	0.000164	8.89E-06	
236	0.000294	2.49E-05	0.000792
3.40E-05	0.000214	9.99E-06	
237	0.000294	2.90E-05	3.79E-05
3.02E-05	0.000245	1.20E-05	
238	0.000294	2.82E-05	0.000762
4.48E-05	0.000267	1.63E-05	
239	0.000294	2.31E-05	0.001685
5.01E-05	0.000270	2.04E-05	
240	0.000294	2.08E-05	0.002395
4.71E-05	0.000238	2.06E-05	
241	0.000294	2.05E-05	0.002881
4.48E-05	0.000169	2.03E-05	
242	0.000294	2.10E-05	0.003103
4.34E-05	9.67E-05	2.02E-05	
243	0.000294	2.16E-05	0.003134
4.35E-05	6.40E-05	2.04E-05	
244	0.000294	2.21E-05	0.002925
4.49E-05	8.49E-05	2.33E-05	
245	0.000294	2.29E-05	0.002444
4.71E-05	0.000126	2.70E-05	
246	0.000294	2.57E-05	0.001728
5.00E-05	0.000168	3.00E-05	
247	0.000294	3.03E-05	0.000785
4.44E-05	0.000213	3.06E-05	
248	0.000294	3.06E-05	3.80E-05
2.98E-05	0.000240	3.07E-05	
249	0.000294	2.53E-05	0.000849
3.55E-05	0.000260	3.54E-05	
250	0.000294	1.78E-05	0.001886
4.33E-05	0.000262	3.88E-05	
251	0.000293	1.38E-05	0.002692
4.29E-05	0.000231	3.39E-05	
252	0.000293	1.28E-05	0.003252
4.35E-05	0.000163	2.64E-05	
253	0.000293	1.28E-05	0.003527
4.54E-05	9.30E-05	1.74E-05	
254	0.000293	1.38E-05	0.003608
4.79E-05	6.32E-05	1.32E-05	
255	0.000293	1.60E-05	0.003375
5.26E-05	9.19E-05	1.50E-05	
256	0.000293	1.99E-05	0.002826
5.77E-05	0.000140	1.88E-05	
257	0.000293	2.66E-05	0.002001
6.32E-05	0.000191	2.32E-05	
258	0.000293	3.48E-05	0.000908
6.02E-05	0.000244	2.68E-05	
259	0.000293	3.82E-05	4.33E-05
4.28E-05	0.000278	3.12E-05	
260	0.000293	3.33E-05	0.000960
3.52E-05	0.000310	3.87E-05	
261	0.000294	2.61E-05	0.001671
3.50E-05	0.000306	3.81E-05	
262	0.000294	2.11E-05	0.002126
3.31E-05	0.000262	3.38E-05	
263	0.000295	1.82E-05	0.002343
3.29E-05	0.000185	2.67E-05	
264	0.000295	1.68E-05	0.002340
3.33E-05	0.000105	2.10E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000296	1.78E-05	0.002149
3.29E-05	6.34E-05	1.93E-05	
266	0.000297	2.16E-05	0.001803
3.12E-05	8.04E-05	2.03E-05	
267	0.000298	2.97E-05	0.001339
2.80E-05	0.000101	2.15E-05	
268	0.000298	4.10E-05	0.000790
2.32E-05	0.000116	2.30E-05	
269	0.000299	5.80E-05	0.000188
1.60E-05	0.000124	1.60E-05	
270	0.000300	6.34E-05	4.83E-05
1.96E-05	0.000125	1.96E-05	
271	0.000246	6.91E-06	.000000
5.21E-05	0.000338	9.28E-06	
272	0.000568	3.22E-05	.000000
5.23E-05	0.000226	2.40E-06	
273	.000000	.000000	.000000
4.33E-05	0.000278	2.59E-06	
274	0.000678	2.10E-06	.000000
3.83E-05	0.000274	2.82E-06	
275	0.000392	1.56E-05	.000000
6.96E-05	0.000313	2.95E-06	
276	0.000802	7.89E-06	.000000
3.24E-05	0.000136	5.57E-07	
277	0.000234	3.21E-05	.000000
3.08E-05	0.000328	5.02E-07	
278	0.000549	3.07E-05	.000000
1.57E-05	0.000217	1.35E-06	
279	.000000	.000000	.000000
8.14E-06	0.000266	1.69E-06	
280	0.000640	2.04E-06	.000000
5.51E-06	0.000263	1.89E-06	
281	0.000361	8.11E-06	.000000
7.44E-06	0.000303	2.11E-06	
282	0.000752	3.63E-05	.000000
6.74E-06	0.000130	4.10E-06	
283	0.000198	3.85E-05	.000000
5.22E-05	0.000225	6.91E-07	
284	0.000458	8.63E-06	.000000
4.30E-05	0.000170	1.30E-06	
285	1.05E-06	3.55E-05	.000000
1.91E-05	0.000223	1.77E-06	
286	0.000537	0.000133	.000000
4.98E-22	0.000217	1.48E-06	
287	0.000285	7.39E-05	.000000
7.23E-22	0.000256	1.54E-06	
288	0.000601	0.000109	.000000
9.06E-06	0.000122	5.46E-06	

COMB DL-G2-1 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000316	-5.52E-05	-7.84E-08
-2.48E-05	-0.000124	-9.74E-07	
2	-0.000316	-3.51E-05	-0.001475
-2.09E-05	-0.000118	-8.37E-07	
3	-0.000316	-3.34E-05	-0.002872
-1.78E-05	-0.000103	-5.55E-07	
4	-0.000316	-3.54E-05	-0.003859
-1.36E-05	-8.02E-05	-3.84E-07	
5	-0.000316	-3.61E-05	-0.004319
-7.51E-06	-5.38E-05	-1.12E-06	
6	-0.000316	-3.57E-05	-0.004206
-4.67E-06	-3.25E-05	-1.37E-06	
7	-0.000316	-3.47E-05	-0.003564
-2.94E-06	-0.000170	-3.21E-06	
8	-0.000316	-3.48E-05	-0.002525
-1.26E-06	-0.000232	-4.88E-06	
9	-0.000316	-4.48E-05	-0.001268
-2.13E-06	-0.000256	-5.80E-06	
10	-0.000316	-5.52E-05	-1.93E-07
-8.67E-06	-0.000240	-2.45E-06	
11	-0.000317	-4.57E-05	-0.000864
-1.10E-05	-0.000213	-1.36E-06	
12	-0.000318	-2.84E-05	-0.002234
-1.29E-05	-0.000169	-1.09E-06	
13	-0.000319	-2.29E-05	-0.003572
-1.40E-05	-0.000130	-1.07E-06	
14	-0.000320	-2.36E-05	-0.004663
-1.31E-05	-9.21E-05	-8.83E-07	
15	-0.000321	-2.47E-05	-0.005291
-9.21E-06	-7.00E-05	-8.95E-07	
16	-0.000321	-2.41E-05	-0.005344
-6.40E-06	-5.01E-05	-1.01E-06	
17	-0.000321	-2.17E-05	-0.004809
-7.19E-06	-0.000165	-1.90E-06	
18	-0.000320	-1.90E-05	-0.003772
-5.90E-06	-0.000244	-3.23E-06	
19	-0.000320	-2.16E-05	-0.002427
-3.04E-06	-0.000286	-4.89E-06	
20	-0.000319	-3.52E-05	-0.000973
-6.73E-07	-0.000288	-5.03E-06	
21	-0.000319	-4.53E-05	-1.98E-07
-2.91E-06	-0.000266	-2.41E-06	
22	-0.000318	-4.28E-05	-0.001028
-5.93E-06	-0.000234	-1.39E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	-0.000317	-3.62E-05	-0.002596
-9.94E-06	-0.000183	-1.16E-06	
24	-0.000317	-3.71E-05	-0.004090
-1.26E-05	-0.000139	-1.06E-06	
25	-0.000316	-3.94E-05	-0.005294
-1.30E-05	-9.52E-05	-9.31E-07	
26	-0.000315	-4.08E-05	-0.005966
-1.06E-05	-7.02E-05	-8.37E-07	
27	-0.000314	-4.19E-05	-0.005989
-1.04E-05	-0.000112	-1.31E-06	
28	-0.000313	-4.12E-05	-0.005355
-1.26E-05	-0.000194	-2.05E-06	
29	-0.000313	-3.92E-05	-0.004173
-1.22E-05	-0.000278	-3.50E-06	
30	-0.000313	-3.62E-05	-0.002676
-9.40E-06	-0.000319	-5.23E-06	
31	-0.000311	-4.37E-05	-0.001074
-5.22E-06	-0.000318	-5.51E-06	
32	-0.000311	-4.54E-05	-1.97E-07
-2.09E-06	-0.000295	-3.13E-06	
33	-0.000310	-3.60E-05	-0.001008
-7.37E-07	-0.000261	-2.19E-06	
34	-0.000309	-2.66E-05	-0.002524
-4.05E-06	-0.000207	-2.03E-06	
35	-0.000308	-3.00E-05	-0.003947
-7.14E-06	-0.000161	-1.95E-06	
36	-0.000307	-3.88E-05	-0.005071
-8.52E-06	-0.000112	-1.76E-06	
37	-0.000307	-4.66E-05	-0.005668
-7.75E-06	-8.63E-05	-1.48E-06	
38	-0.000306	-5.21E-05	-0.005635
-1.04E-05	-0.000120	-1.33E-06	
39	-0.000306	-5.52E-05	-0.004980
-1.43E-05	-0.000196	-1.79E-06	
40	-0.000306	-5.52E-05	-0.003824
-1.52E-05	-0.000270	-2.97E-06	
41	-0.000306	-5.74E-05	-0.002405
-1.39E-05	-0.000299	-4.77E-06	
42	-0.000307	-6.22E-05	-0.000940
-1.18E-05	-0.000285	-4.94E-06	
43	-0.000307	-6.36E-05	-2.12E-07
-9.33E-06	-0.000252	-2.24E-06	
44	-0.000307	-3.90E-05	-0.001697
-3.66E-06	-0.000193	-1.23E-06	
45	-0.000307	-1.41E-05	-0.003466
-4.31E-06	-0.000131	-9.73E-07	
46	-0.000307	-8.04E-06	-0.005069
-7.53E-06	-7.28E-05	-7.76E-07	
47	-0.000307	-1.06E-05	-0.006289
-1.06E-05	-2.14E-05	-6.70E-07	
48	-0.000307	-1.31E-05	-0.006938
-1.34E-05	-1.93E-05	-6.64E-07	
49	-0.000306	-1.49E-05	-0.006920
-1.97E-05	-9.71E-06	-6.86E-07	
50	-0.000306	-1.62E-05	-0.006209
-2.55E-05	-0.000218	-8.89E-07	
51	-0.000306	-1.70E-05	-0.004856
-3.30E-05	-0.000332	-1.87E-06	
52	-0.000306	-1.80E-05	-0.002978
-3.87E-05	-0.000423	-4.50E-06	
53	-0.000306	-2.99E-05	-0.000716
-4.22E-05	-0.000476	-7.70E-06	
54	-0.000306	-3.80E-05	-8.76E-08
-4.27E-05	-0.000479	-8.13E-06	
55	-0.000299	-2.77E-05	-1.95E-07
-7.24E-05	-0.000116	-4.54E-06	
56	-0.000299	-2.72E-05	-0.001436
-0.000113	-0.000111	-3.35E-06	
57	-0.000299	-2.70E-05	-0.002770
-0.000149	-9.65E-05	-1.44E-06	
58	-0.000300	-2.68E-05	-0.003702
-0.000168	-7.45E-05	-7.41E-07	
59	-0.000300	-2.64E-05	-0.004137
-0.000169	-6.61E-05	-9.39E-07	
60	-0.000300	-2.53E-05	-0.004033
-0.000153	-0.000102	-1.42E-06	
61	-0.000300	-2.33E-05	-0.003424
-0.000124	-0.000180	-1.71E-06	
62	-0.000301	-1.95E-05	-0.002433
-8.55E-05	-0.000237	-1.61E-06	
63	-0.000301	-1.43E-05	-0.001220
-4.85E-05	0.000257	-1.28E-06	
64	-0.000302	-1.00E-05	-4.32E-07
-3.85E-05	-0.000231	-1.88E-06	
65	-0.000302	-9.51E-06	-0.000830
-6.70E-05	-0.000198	-3.40E-06	
66	-0.000303	-1.17E-05	-0.002151
-0.000110	-0.000155	-2.04E-06	
67	-0.000303	-1.34E-05	-0.003425
-0.000148	-0.000122	-1.33E-06	
68	-0.000304	-1.38E-05	-0.004456
-0.000174	-8.67E-05	-7.09E-07	
69	-0.000304	-1.34E-05	-0.005051
-0.000185	-7.17E-05	-7.10E-07	
70	-0.000305	-1.27E-05	-0.005103
-0.000180	-0.000104	-9.05E-07	
71	-0.000305	-1.10E-05	-0.004598
-0.000159	-0.000167	-1.11E-06	
72	-0.000305	-8.07E-06	-0.003617
-0.000126	-0.000240	-1.33E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	-0.000305	-3.93E-06	-0.002335
-8.53E-05	-0.000280	-1.25E-06	
74	-0.000305	-2.92E-06	-0.000935
-4.46E-05	-0.000281	-1.05E-06	
75	-0.000305	-6.04E-06	-4.40E-07
-3.09E-05	-0.000254	-1.54E-06	
76	-0.000305	-1.08E-05	-0.000987
-5.78E-05	-0.000218	-1.06E-06	
77	-0.000305	-1.82E-05	-0.002497
-0.000101	-0.000169	-2.48E-06	
78	-0.000304	-2.35E-05	-0.003921
-0.000141	-0.000130	-1.31E-06	
79	-0.000304	-2.64E-05	-0.005062
-0.000171	-8.98E-05	-7.42E-07	
80	-0.000304	-2.77E-05	-0.005700
-0.000188	-7.35E-05	-7.36E-07	
81	-0.000304	-2.86E-05	-0.005722
-0.000188	-0.000112	-9.59E-07	
82	-0.000304	-2.82E-05	-0.005121
-0.000171	-0.000185	-1.20E-06	
83	-0.000304	-2.57E-05	-0.004000
-0.000140	-0.000264	-1.54E-06	
84	-0.000304	-2.02E-05	-0.002573
-0.000100	-0.000305	-1.60E-06	
85	-0.000304	-1.20E-05	-0.001030
-5.68E-05	-0.000307	-1.55E-06	
86	-0.000304	-6.32E-06	-4.39E-07
-3.01E-05	-0.000281	-1.06E-06	
87	-0.000304	-3.20E-06	-0.000966
-4.58E-05	-0.000243	-3.66E-06	
88	-0.000304	-8.57E-06	-0.002426
-8.76E-05	-0.000192	-3.14E-06	
89	-0.000303	-1.71E-05	-0.003781
-0.000128	-0.000151	-2.05E-06	
90	-0.000303	-2.50E-05	-0.004845
-0.000162	-0.000107	-1.55E-06	
91	-0.000303	-3.15E-05	-0.005411
-0.000184	-8.19E-05	-1.25E-06	
92	-0.000303	-3.65E-05	-0.005380
-0.000189	-0.000111	-1.06E-06	
93	-0.000303	-3.95E-05	-0.004760
-0.000177	-0.000176	-9.17E-07	
94	-0.000303	-3.98E-05	-0.003667
-0.000149	-0.000247	-8.49E-07	
95	-0.000303	-3.58E-05	-0.002314
-0.000111	-0.000280	-9.13E-07	
96	-0.000303	-2.75E-05	-0.000903
-6.73E-05	-0.000272	-8.54E-07	
97	-0.000303	-2.08E-05	-4.47E-07
-3.93E-05	-0.000239	-1.17E-06	
98	-0.000304	-1.28E-05	-0.001619
-4.86E-05	-0.000177	-2.98E-06	
99	-0.000305	-4.89E-06	-0.003301
-9.06E-05	-0.000121	-2.03E-06	
100	-0.000305	-3.36E-06	-0.004809
-0.000137	-6.98E-05	-1.01E-06	
101	-0.000305	-3.10E-06	-0.005947
-0.000176	-2.27E-05	-7.47E-07	
102	-0.000305	-3.54E-06	-0.006553
-0.000205	-1.68E-05	-7.03E-07	
103	-0.000306	-5.31E-06	-0.006530
-0.000219	-0.000105	-1.47E-06	
104	-0.000306	-7.78E-06	-0.005857
-0.000216	-0.000183	-7.32E-07	
105	-0.000306	-1.01E-05	-0.004593
-0.000195	-0.000290	-7.88E-07	
106	-0.000306	-1.22E-05	-0.002834
-0.000155	-0.000385	-9.61E-07	
107	-0.000313	-1.42E-05	-0.000687
-9.81E-05	-0.000450	-1.38E-06	
108	-0.000305	-1.48E-05	-2.08E-07
-8.11E-05	-0.000457	-1.46E-06	
109	-0.000257	-2.21E-05	-1.09E-08
-6.93E-05	-0.000107	-5.15E-06	
110	-0.000258	-2.01E-05	-0.001007
-0.000110	-0.000103	-4.76E-06	
111	-0.000258	-2.30E-05	-0.001983
-0.000151	-8.93E-05	-3.64E-06	
112	-0.000258	-3.28E-05	-0.002692
-0.000174	-6.82E-05	-2.36E-06	
113	-0.000258	-3.86E-05	-0.003043
-0.000176	-4.43E-05	-1.23E-06	
114	-0.000258	-3.91E-05	-0.002991
-0.000160	-7.16E-05	-4.78E-07	
115	-0.000259	-3.44E-05	-0.002561
-0.000128	-0.000134	-2.89E-07	
116	-0.000259	-2.58E-05	-0.001838
-8.37E-05	-0.000177	-3.53E-07	
117	-0.000259	-1.62E-05	-0.000942
-4.21E-05	0.000194	-5.85E-07	
118	-0.000259	-1.14E-05	-4.00E-08
-3.16E-05	-0.000189	-1.52E-06	
119	-0.000258	-1.38E-05	-0.000645
-5.49E-05	-0.000176	-2.38E-06	
120	-0.000257	-2.32E-05	-0.001644
-0.000103	-0.000147	-3.10E-06	
121	-0.000257	-3.45E-05	-0.002613
-0.000147	-0.000117	-2.91E-06	
122	-0.000256	-4.38E-05	-0.003407
-0.000179	-8.32E-05	-2.10E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000255	-4.91E-05	-0.003872
-0.000193	-5.60E-05	-1.32E-06	
124	-0.000254	-4.97E-05	-0.003922
-0.000188	-7.12E-05	-6.63E-07	
125	-0.000254	-4.51E-05	-0.003544
-0.000166	-0.000128	-3.08E-07	
126	-0.000254	-3.61E-05	-0.002799
-0.000128	-0.000185	-3.49E-07	
127	-0.000254	-2.39E-05	-0.001823
-8.07E-05	-0.000216	-4.29E-07	
128	-0.000254	-1.29E-05	-0.000747
-3.60E-05	-0.000221	-8.99E-07	
129	-0.000254	-8.90E-06	-4.34E-08
-2.60E-05	-0.000212	-1.64E-06	
130	-0.000255	-8.45E-06	-0.000798
-4.57E-05	-0.000195	-2.42E-06	
131	-0.000255	-1.81E-05	-0.001980
-9.44E-05	-0.000161	-3.03E-06	
132	-0.000256	-3.05E-05	-0.003092
-0.000141	-0.000125	-2.82E-06	
133	-0.000256	-4.02E-05	-0.003986
-0.000177	-8.63E-05	-2.04E-06	
134	-0.000257	-4.52E-05	-0.004488
-0.000196	-5.79E-05	-1.30E-06	
135	-0.000258	-4.51E-05	-0.004508
-0.000195	-7.55E-05	-7.09E-07	
136	-0.000258	-3.99E-05	-0.004041
-0.000176	-0.000143	-4.95E-07	
137	-0.000259	-3.01E-05	-0.003166
-0.000140	-0.000207	-5.34E-07	
138	-0.000259	-1.79E-05	-0.002050
-9.35E-05	-0.000240	-6.55E-07	
139	-0.000260	-1.03E-05	-0.000837
-4.46E-05	-0.000246	-1.07E-06	
140	-0.000261	-4.05E-06	-4.27E-08
-2.53E-05	-0.000237	-1.72E-06	
141	-0.000260	-1.43E-05	-0.000776
-3.67E-05	-0.000220	-2.47E-06	
142	-0.000261	-2.50E-05	-0.001909
-8.29E-05	-0.000183	-3.12E-06	
143	-0.000261	-3.64E-05	-0.002954
-0.000131	-0.000146	-4.01E-06	
144	-0.000262	-4.50E-05	-0.003775
-0.000169	-0.000102	-2.16E-06	
145	-0.000262	-4.90E-05	-0.004207
-0.000192	-6.71E-05	-1.49E-06	
146	-0.000262	-4.77E-05	-0.004176
-0.000197	-7.28E-05	-9.37E-07	
147	-0.000262	-4.25E-05	-0.003691
-0.000182	-0.000133	-6.00E-07	
148	-0.000262	-3.33E-05	-0.002842
-0.000149	-0.000190	-4.42E-07	
149	-0.000261	-2.47E-05	-0.001800
-0.000103	-0.000215	-3.84E-07	
150	-0.000261	-2.36E-05	-0.000715
-5.51E-05	-0.000212	-5.87E-07	
151	-0.000261	-2.51E-05	-5.07E-08
-3.20E-05	-0.000197	-1.19E-06	
152	-0.000261	-3.07E-05	-0.001313
-4.77E-05	-0.000162	-2.08E-06	
153	-0.000261	-3.87E-05	-0.002640
-9.59E-05	-0.000118	-2.46E-06	
154	-0.000262	-4.52E-05	-0.003827
-0.000148	-7.00E-05	-2.01E-06	
155	-0.000262	-4.72E-05	-0.004719
-0.000191	-2.47E-05	-1.38E-06	
156	-0.000263	-4.39E-05	-0.005181
-0.000220	-6.45E-06	-1.09E-06	
157	-0.000263	-3.60E-05	-0.005139
-0.000233	-4.98E-05	-9.75E-07	
158	-0.000264	-2.50E-05	-0.004581
-0.000228	-0.000142	-9.87E-07	
159	-0.000264	-1.17E-05	-0.003556
-0.000204	-0.000229	-1.02E-06	
160	-0.000264	-7.88E-06	-0.002160
-0.000157	-0.000298	-1.05E-06	
161	-0.000264	-1.09E-05	-0.000514
-9.39E-05	-0.000338	-1.06E-06	
162	-0.000264	-1.19E-05	-1.00E-08
-8.00E-05	-0.000341	-1.06E-06	
163	-0.000308	-2.66E-05	-0.000113
-8.34E-05	-0.000149	-2.84E-05	

191	-0.000308	-3.28E-05	-0.004278
-4.65E-05	-0.000439	-4.11E-05	
192	-0.000308	-2.85E-05	-0.002762
-3.44E-05	-0.000473	-4.47E-05	
193	-0.000308	-2.12E-05	-0.001124
-2.57E-05	-0.000448	-4.10E-05	
194	-0.000307	-1.40E-05	-7.66E-05
-1.78E-05	-0.000358	-3.32E-05	
195	-0.000306	-7.65E-06	-0.001059
-1.81E-05	-0.000323	-3.23E-05	
196	-0.000306	-1.46E-05	-0.002612
-2.60E-05	-0.000335	-3.23E-05	
197	-0.000305	-2.37E-05	-0.004055
-3.83E-05	-0.000296	-2.82E-05	
198	-0.000304	-3.22E-05	-0.005203
-5.33E-05	-0.000256	-2.46E-05	
199	-0.000304	-3.93E-05	-0.005821
-6.32E-05	-0.000249	-2.26E-05	
200	-0.000304	-4.46E-05	-0.005789
-6.94E-05	-0.000291	-2.61E-05	
201	-0.000304	-4.78E-05	-0.005117
-6.92E-05	-0.000357	-3.26E-05	
202	-0.000304	-4.84E-05	-0.003937
-6.15E-05	-0.000427	-3.87E-05	
203	-0.000304	-4.62E-05	-0.002498
-5.14E-05	-0.000450	-4.11E-05	
204	-0.000305	-3.99E-05	-0.000996
-4.22E-05	-0.000418	-3.69E-05	
205	-0.000305	-3.22E-05	-8.69E-05
-3.24E-05	-0.000327	-3.14E-05	
206	-0.000305	-1.41E-05	-0.001748
-2.97E-05	-0.000320	-3.07E-05	
207	-0.000306	-3.46E-06	-0.003536
-3.33E-05	-0.000263	-2.47E-05	
208	-0.000305	-3.61E-06	-0.005144
-4.72E-05	-0.000212	-2.03E-05	
209	-0.000305	-5.30E-06	-0.006371
-6.72E-05	-0.000173	-1.85E-05	
210	-0.000305	-7.80E-06	-0.007036
-8.42E-05	-0.000186	-2.03E-05	
211	-0.000305	-1.00E-05	-0.007018
-9.85E-05	-0.000263	-2.80E-05	
212	-0.000306	-1.19E-05	-0.006295
-0.000106	-0.000370	-3.96E-05	
213	-0.000306	-1.34E-05	-0.004939
-0.000103	-0.000477	-5.02E-05	
214	-0.000306	-1.47E-05	-0.003062
-9.20E-05	-0.000558	-5.98E-05	
215	-0.000306	-1.60E-05	-0.000777
-7.49E-05	-0.000543	-4.39E-05	
216	-0.000306	-1.62E-05	-9.03E-05
-6.62E-05	-0.000479	-5.02E-05	
217	-0.000307	-2.53E-05	-3.05E-05
-5.42E-06	-0.000112	-1.66E-05	
218	-0.000278	-2.39E-05	-0.001235
-0.000107	-0.000107	-1.34E-05	
219	-0.000278	-2.26E-05	-0.002393
-0.000181	-9.26E-05	-1.37E-05	
220	-0.000279	-2.15E-05	-0.003214
-0.000212	-7.09E-05	-1.35E-05	
221	-0.000279	-2.11E-05	-0.003601
-0.000213	-5.41E-05	-1.45E-05	
222	-0.000279	-2.07E-05	-0.003523
-0.000194	-8.99E-05	-1.98E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	-0.000279	-1.90E-05	-0.003003
-0.000157	-0.000161	-2.72E-05	
224	-0.000280	-1.52E-05	-0.002140
-0.000102	-0.000210	-3.28E-05	
225	-0.000280	-1.12E-05	-0.001080
-3.35E-05	-0.000225	-3.55E-05	
226	-0.000280	-9.32E-06	-2.14E-05
-2.70E-06	-0.000208	-3.12E-05	
227	-0.000280	-9.62E-06	-0.000739
-4.38E-05	-0.000185	-2.96E-05	
228	-0.000280	-1.22E-05	-0.001902
-0.000117	-0.000150	-2.99E-05	
229	-0.000280	-1.61E-05	-0.003031
-0.000176	-0.000119	-2.74E-05	
230	-0.000280	-1.89E-05	-0.003947
-0.000213	-8.00E-05	-2.42E-05	
231	-0.000280	-2.03E-05	-0.004474
-0.000227	-6.33E-05	-2.07E-05	
232	-0.000280	-2.00E-05	-0.004524
-0.000222	-8.83E-05	-1.92E-05	
233	-0.000280	-1.88E-05	-0.004085
-0.000199	-0.000150	-1.57E-05	
234	-0.000280	-1.57E-05	-0.003218
-0.000155	-0.000216	-1.82E-05	
235	-0.000280	-1.06E-05	-0.002083
-9.35E-05	-0.000250	-1.81E-05	
236	-0.000280	-6.38E-06	-0.000841
-2.27E-05	-0.000250	-1.48E-05	
237	-0.000280	-6.63E-06	-2.06E-05
-2.74E-06	-0.000232	-1.11E-05	
238	-0.000280	-8.83E-06	-0.000892
-3.61E-05	-0.000207	-9.60E-06	
239	-0.000280	-1.29E-05	-0.002242
-0.000108	-0.000165	-9.36E-06	
240	-0.000280	-1.81E-05	-0.003517
-0.000170	-0.000127	-1.04E-05	
241	-0.000280	-2.21E-05	-0.004538
-0.000211	-8.78E-05	-1.32E-05	
242	-0.000281	-2.42E-05	-0.005106
-0.000230	-6.45E-05	-1.73E-05	
243	-0.000281	-2.48E-05	-0.005126
-0.000230	-9.29E-05	-2.24E-05	
244	-0.000281	-2.33E-05	-0.004595
-0.000211	-0.000164	-3.02E-05	
245	-0.000281	-1.96E-05	-0.003593
-0.000169	-0.000237	-3.70E-05	
246	-0.000281	-1.52E-05	-0.002315
-0.000108	-0.000274	-4.06E-05	
247	-0.000281	-1.07E-05	-0.000933
-3.55E-05	-0.000277	-3.74E-05	
248	-0.000282	-7.67E-06	-2.06E-05
-2.72E-06	-0.000259	-3.22E-05	
249	-0.000282	-6.79E-06	-0.000872
-2.45E-05	-0.000233	-3.16E-05	
250	-0.000282	-1.07E-05	-0.002171
-9.60E-05	-0.000188	-2.91E-05	
251	-0.000282	-1.74E-05	-0.003379
-0.000158	-0.000148	-2.47E-05	
252	-0.000282	-2.34E-05	-0.004324
-0.000203	-0.000104	-1.98E-05	
253	-0.000282	-2.74E-05	-0.004821
-0.000226	-7.30E-05	-1.46E-05	
254	-0.000283	-3.04E-05	-0.004790
-0.000231	-9.02E-05	-1.33E-05	
255	-0.000282	-3.16E-05	-0.004240
-0.000217	-0.000154	-1.91E-05	
256	-0.000282	-3.12E-05	-0.003265
-0.000178	-0.000219	-2.52E-05	
257	-0.000282	-2.89E-05	-0.002062
-0.000118	-0.000248	-2.81E-05	
258	-0.000282	-2.46E-05	-0.000810
-4.41E-05	-0.000243	-2.52E-05	
259	-0.000282	-2.15E-05	-2.96E-05
-3.38E-06	-0.000220	-2.26E-05	
260	-0.000282	-2.00E-05	-0.001471
-3.44E-05	-0.000173	-1.95E-05	
261	-0.000283	-1.93E-05	-0.002981
-0.000109	-0.000121	-1.57E-05	
262	-0.000283	-1.76E-05	-0.004336
-0.000172	-7.04E-05	-1.33E-05	
263	-0.000283	-1.35E-05	-0.005355
-0.000220	-2.41E-05	-1.16E-05	
264	-0.000284	-9.00E-06	-0.005886
-0.000251	-9.32E-06	-1.29E-05	
265	-0.000284	-5.92E-06	-0.005853
-0.000267	-6.29E-05	-1.77E-05	
266	-0.000284	-4.74E-06	-0.005243
-0.000264	-0.000159	-2.69E-05	
267	-0.000284	-7.14E-06	-0.004097
-0.000236	-0.000257	-3.66E-05	
268	-0.000284	-9.71E-06	-0.002514
-0.000175	-0.000342	-4.57E-05	
269	-0.000284	-1.26E-05	-0.000615
-5.71E-05	-0.000398	-3.33E-05	
270	-0.000284	-1.34E-05	-3.02E-05
-1.24E-05	-0.000407	-4.15E-05	
271	-0.000431	-3.95E-06	.000000
-2.27E-05	-0.000124	-9.74E-07	
272	-0.000579	-3.16E-05	.000000
-1.47E-05	-0.000241	-2.45E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
-7.99E-06	-0.000266	-2.41E-06	
274	-0.000588	-2.42E-06	.000000
-3.65E-06	-0.000295	-3.13E-06	
275	-0.000446	-1.37E-05	.000000
-2.46E-05	-0.000251	-2.24E-06	
276	-0.000418	-4.12E-06	.000000
-3.39E-05	-0.000480	-8.13E-06	
277	-0.000411	-1.83E-05	.000000
-6.35E-05	-0.000112	-4.54E-06	
278	-0.000551	-3.05E-05	.000000
-4.41E-05	-0.000228	-1.88E-06	
279	.000000	.000000	.000000
-3.45E-05	-0.000584	-1.54E-06	
280	-0.000571	-2.29E-06	.000000
-3.17E-05	-0.000281	-2.16E-06	
281	-0.000441	-9.90E-06	.000000
-3.10E-05	-0.000240	-1.17E-06	
282	-0.000412	-1.98E-05	.000000
-4.24E-05	-0.000462	-1.46E-06	
283	-0.000283	-1.60E-21	.000000
-5.24E-05	-0.000102	-5.15E-06	
284	-0.000462	-1.58E-05	.000000
-6.17E-05	-0.000176	-1.52E-06	
285	-9.09E-07	-3.07E-05	.000000
-2.97E-05	-0.000211	-1.64E-06	
286	-0.000467	-0.000126	.000000
-6.02E-06	-0.000238	-1.72E-06	
287	-0.000548	-8.83E-05	.000000
-1.36E-05	-0.000199	-1.19E-06	
288	-0.000360	-6.16E-05	.000000
-2.12E-05	-0.000349	-1.06E-06	

COMB DL-G2-2 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000589	4.07E-05	3.86E-08
6.04E-05	0.000565	7.47E-06	
2	0.000588	4.99E-05	0.001029
0.000118	0.000533	5.90E-06	
3	0.000587	6.20E-05	0.002077
0.000182	0.000430	2.96E-06	
4	0.000587	6.67E-05	0.002949
0.000222	0.000279	1.25E-06	
5	0.000587	6.53E-05	0.003561
0.000243	0.000106	9.37E-07	
6	0.000588	6.15E-05	0.003822
0.000246	4.54E-06	1.04E-06	
7	0.000588	5.40E-05	0.003648
0.000227	8.36E-05	1.51E-06	
8	0.000589	4.32E-05	0.002974
0.000185	0.000189	2.10E-06	
9	0.000590	3.20E-05	0.001751
0.000126	0.000300	2.63E-06	
10	0.000591	2.58E-05	5.87E-08
7.16E-05	0.000401	2.90E-06	
11	0.000592	1.97E-05	0.001422
7.98E-05	0.000456	4.59E-06	
12	0.000592	1.74E-05	0.003182
0.000139	0.000484	4.22E-06	
13	0.000593	1.95E-05	0.004557
0.000196	0.000441	5.97E-06	
14	0.000594	2.44E-05	0.005510
0.000237	0.000325	2.22E-06	
15	0.000594	2.89E-05	0.005984
0.000259	0.000188	2.04E-06	
16	0.000594	2.99E-05	0.006159
0.000264	0.000114	1.95E-06	
17	0.000594	2.70E-05	0.005836
0.000251	0.000150	2.06E-06	
18	0.000595	2.01E-05	0.004957
0.000215	0.000236	2.65E-06	
19	0.000595	1.02E-05	0.003553
0.000157	0.000335	3.28E-06	
20	0.000595	2.87E-06	0.001627
8.88E-05	0.000435	3.55E-06	
21	0.000594	8.63E-06	8.15E-08
5.63E-05	0.000495	3.50E-06	
22	0.000594	1.52E-05	0.001566
8.00E-05	0.000538	5.02E-06	
23	0.000594	2.98E-05	0.003479
0.000145	0.000546	4.63E-06	
24	0.000594	4.43E-05	0.004949
0.000204	0.000485	3.38E-06	
25	0.000594	5.51E-05	0.005947
0.000244	0.000347	2.47E-06	
26	0.000594	6.17E-05	0.006397
0.000263	0.000195	2.23E-06	
27	0.000594	6.33E-05	0.006458
0.000264	0.000130	2.03E-06	
28	0.000594	5.93E-05	0.006036
0.000245	0.000173	2.03E-06	
29	0.000594	4.98E-05	0.005050
0.000205	0.000257	2.60E-06	
30	0.000595	3.51E-05	0.003568
0.000147	0.000345	3.22E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	0.000594	1.84E-05	0.001614
8.05E-05	0.000435	3.52E-06	
32	0.000594	9.59E-06	9.18E-08
5.53E-05	0.000486	3.64E-06	
33	0.000594	3.09E-06	0.001744
8.77E-05	0.000519	5.08E-06	
34	0.000594	1.09E-05	0.003888
0.000157	0.000516	4.72E-06	
35	0.000594	2.35E-05	0.005553
0.000216	0.000447	3.59E-06	
36	0.000594	3.45E-05	0.006701
0.000254	0.000306	2.82E-06	
37	0.000595	4.12E-05	0.007255
0.000269	0.000163	2.30E-06	
38	0.000595	4.46E-05	0.007426
0.000265	0.000124	2.06E-06	
39	0.000595	4.54E-05	0.006959
0.000244	0.000190	2.09E-06	
40	0.000595	4.08E-05	0.005837
0.000203	0.000289	2.46E-06	
41	0.000596	3.12E-05	0.004136
0.000146	0.000397	3.10E-06	
42	0.000596	2.22E-05	0.001877
8.83E-05	0.000503	3.56E-06	
43	0.000597	2.04E-05	5.61E-08
7.96E-05	0.000584	3.82E-06	
44	0.000598	1.38E-05	0.001982
0.000137	0.000612	6.70E-06	
45	0.000599	1.49E-05	0.003461
0.000202	0.000587	6.17E-06	
46	0.000600	2.36E-05	0.004402
0.000248	0.000485	4.96E-06	
47	0.000601	3.62E-05	0.004841
0.000272	0.000317	4.29E-06	
48	0.000602	4.76E-05	0.004825
0.000275	0.000156	3.81E-06	
49	0.000603	5.71E-05	0.004423
0.000263	0.000118	3.85E-06	
50	0.000603	6.47E-05	0.003707
0.000235	0.000168	2.77E-06	
51	0.000603	6.75E-05	0.002751
0.000191	0.000209	2.52E-06	
52	0.000603	6.40E-05	0.001623
0.000129	0.000238	2.81E-06	
53	0.000603	5.85E-05	0.000382
5.27E-05	0.000253	4.03E-06	
54	0.000602	5.94E-05	3.30E-08
4.23E-05	0.000254	4.19E-06	
55	0.000614	8.02E-05	2.72E-08
4.17E-05	0.000645	2.97E-06	
56	0.000614	7.27E-05	0.001004
5.89E-05	0.000587	2.57E-06	
57	0.000613	7.38E-05	0.002028
8.22E-05	0.000450	1.73E-06	
58	0.000613	7.60E-05	0.002882
9.91E-05	0.000280	9.14E-07	
59	0.000613	7.44E-05	0.003482
0.000106	0.000117	4.15E-07	
60	0.000614	6.73E-05	0.003742
0.000103	1.41E-05	5.63E-07	
61	0.000615	5.65E-05	0.003585
9.66E-05	7.85E-05	1.08E-06	
62	0.000616	4.66E-05	0.002953
8.48E-05	0.000181	2.18E-06	
63	0.000617	4.12E-05	0.001778
6.66E-05	0.000295	3.40E-06	
64	0.000618	3.89E-05	4.46E-08
5.27E-05	0.000425	2.63E-06	
65	0.000619	3.17E-05	0.001449
5.92E-05	0.000498	3.05E-06	
66	0.000620	2.22E-05	0.003168
8.02E-05	0.000523	3.29E-06	
67	0.000621	2.14E-05	0.004489
0.000100	0.000466	2.94E-06	
68	0.000621	2.58E-05	0.005409
0.000115	0.000339	2.46E-06	
69	0.000622	2.93E-05	0.005870
0.000122	0.000209	1.91E-06	
70	0.000622	2.88E-05	0.006042
0.000120	0.000124	1.47E-06	
71	0.000622	2.34E-05	0.005732
0.000109	0.000146	1.37E-06	
72	0.000622	1.48E-05	0.004887
9.01E-05	0.000230	1.82E-06	
73	0.000622	1.05E-05	0.003537
6.84E-05	0.000522	1.85E-06	
74	0.000622	1.37E-05	0.001653
4.31E-05	0.000436	3.87E-06	
75	0.000622	2.30E-05	6.76E-08
3.28E-05	0.000519	3.24E-06	
76	0.000621	2.97E-05	0.001595
4.47E-05	0.000581	3.66E-06	
77	0.000620	2.95E-05	0.003467
7.18E-05	0.000591	3.84E-06	
78	0.000620	5.42E-05	0.004882
9.56E-05	0.000520	3.40E-06	
79	0.000619	6.74E-05	0.005844
0.000113	0.000373	2.78E-06	
80	0.000618	7.54E-05	0.006281
0.000122	0.000227	2.14E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
81	0.000617	7.66E-05	0.006342
0.000122	0.000142	1.55E-06	
82	0.000617	7.06E-05	0.005933
0.000113	0.000169	1.31E-06	
83	0.000616	5.87E-05	0.004981
9.55E-05	0.000230	1.79E-06	
84	0.000615	4.41E-05	0.003553
7.12E-05	0.000336	2.89E-06	
85	0.000615	3.26E-05	0.001642
4.31E-05	0.000436	3.99E-06	
86	0.000614	2.37E-05	7.82E-08
3.02E-05	0.000511	3.54E-06	
87	0.000614	1.38E-05	0.001769
4.10E-05	0.000566	4.02E-06	
88	0.000613	1.26E-05	0.003867
6.76E-05	0.000567	4.31E-06	
89	0.000612	2.66E-05	0.005472
9.13E-05	0.000491	3.99E-06	
90	0.000612	4.32E-05	0.006582
0.000112	0.000343	3.29E-06	
91	0.000610	5.60E-05	0.007118
0.000124	0.000205	2.33E-06	
92	0.000610	6.28E-05	0.007285
0.000127	0.000138	1.48E-06	
93	0.000609	6.32E-05	0.006832
0.000122	0.000186	0.47E-07	
94	0.000609	5.80E-05	0.005746
0.000108	0.000281	1.05E-06	
95	0.000609	5.04E-05	0.004104
8.82E-05	0.000385	2.64E-06	
96	0.000609	4.55E-05	0.001896
6.75E-05	0.000502	4.35E-06	3.75E-08
97	0.000610	4.26E-05	
6.29E-05	0.000588	3.67E-06	
98	0.000611	2.99E-05	0.002005
7.57E-05	0.000664	4.41E-06	
99	0.000612	1.94E-05	0.003432
9.74E-05	0.000641	4.94E-06	
100	0.000613	2.22E-05	0.004327
0.000111	0.000535	4.99E-06	
101	0.000615	3.99E-05	0.004745
0.000120	0.000364	4.63E-06	
102	0.000616	5.81E-05	0.004725
0.000127	0.000208	3.87E-06	
103	0.000617	7.25E-05	0.004331
0.000128	0.000134	2.87E-06	
104	0.000618	8.17E-05	0.003630
0.000118	0.000165	1.83E-06	
105	0.000618	8.49E-05	0.002695
0.000100	0.000205	1.31E-06	
106	0.000617	8.38E-05	0.001590
7.49E-05	0.000233	1.93E-06	
107	0.000616	8.35E-05	0.000375
4.91E-05	0.000249	3.23E-06	
108	0.000616	8.50E-05	2.56E-08
4.73E-05	0.000250	3.44E-06	
109	0.000577	6.50E-05	3.24E-08
3.70E-05	0.000529	2.20E-06	
110	0.000578	5.18E-05	0.000982
3.45E-05	0.000486	2.06E-06	
111	0.000579	4.36E-05	0.001985
3.19E-05	0.000374	1.66E-06	
112	0.000579	4.32E-05	0.002822
3.07E-05	0.000224	1.25E-06	
113	0.000580	4.40E-05	0.003411
2.84E-05	6.86E-05	9.83E-07	
114	0.000580	4.35E-05	0.003664
2.51E-05	4.66E-06	1.27E-06	
115	0.000581	4.12E-05	0.003500
2.26E-05	8.08E-05	1.90E-06	
116	0.000581	3.81E-05	0.002856
2.01E-05	0.000184	2.43E-06	
117	0.000581	3.46E-05	0.001683
1.49E-05	0.000290	2.45E-06	
118	0.000582	3.05E-05	5.14E-08
1.59E-05	0.000385	2.03E-06	
119	0.000582	2.64E-05	0.001366
2.61E-05	0.000434	1.81E-06	
120	0.000582	1.98E-05	0.003060
4.06E-05	0.000454	1.74E-06	
121	0.000582	1.73E-05	0.004383
4.36E-05	0.000405	1.69E-06	
122	0.000583	1.76E-05	0.005301
4.11E-05	0.000290	1.73E-06	
123	0.000582	1.95E-05	0.005758
3.68E-05	0.000161	1.79E-06	
124	0.000582	2.07E-05	0.005928
3.42E-05	0.000107	1.98E-06	
125	0.000582	1.97E-05	0.005618
3.33E-05	0.000146	2.35E-06	
126	0.000581	1.65E-05	0.004774
2.99E-05	0.000230	2.98E-06	
127	0.000580	1.26E-05	0.003423
2.19E-05	0.000326	3.38E-06	
128	0.000580	1.17E-05	0.001568
1.10E-05	0.000424	3.23E-06	
129	0.000580	1.50E-05	7.38E-08
8.67E-06	0.000482	2.89E-06	
130	0.000580	1.98E-06	0.001511
1.46E-05	0.000521	2.56E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
131	0.000580	2.64E-05	0.003355
3.03E-05	0.000528	2.27E-06	
132	0.000581	3.31E-05	0.004770
3.71E-05	0.000467	2.06E-06	
133	0.000582	3.88E-05	0.005731
3.78E-05	0.000333	1.88E-06	
134	0.000583	4.24E-05	0.006164
3.57E-05	0.000188	1.93E-06	
135	0.000583	4.33E-05	0.006224
3.58E-05	0.000127	2.13E-06	
136	0.000584	4.10E-05	0.005817
3.78E-05	0.000169	2.40E-06	
137	0.000585	3.66E-05	0.004867
3.68E-05	0.000251	2.98E-06	
138	0.000585	3.00E-05	0.003439
2.97E-05	0.000337	3.31E-06	
139	0.000586	2.19E-05	0.001556
1.36E-05	0.000425	3.14E-06	
140	0.000586	1.67E-05	8.46E-08
7.85E-06	0.000476	2.80E-06	
141	0.000586	1.29E-05	0.001681
1.09E-05	0.000510	2.48E-06	
142	0.000586	1.40E-05	0.003746
2.32E-05	0.000511	2.15E-06	
143	0.000586	1.87E-05	0.005349
3.18E-05	0.000448	2.06E-06	
144	0.000585	2.32E-05	0.006453
3.58E-05	0.000316	1.97E-06	
145	0.000585	2.56E-05	0.006986
3.71E-05	0.000177	2.01E-06	
146	0.000585	2.55E-05	0.007148
4.01E-05	0.000125	2.17E-06	
147	0.000585	2.43E-05	0.006698
4.53E-05	0.000185	2.59E-06	
148	0.000585	2.57E-05	0.005617
4.82E-05	0.000281	2.92E-06	
149	0.000585	2.72E-05	0.003979
4.51E-05	0.000386	3.31E-06	
150	0.000586	3.05E-05	0.001805
3.09E-05	0.000492	3.18E-06	
151	0.000586	3.14E-05	4.99E-08
2.09E-05	0.000554	2.86E-06	
152	0.000587	2.97E-05	0.001907
2.09E-05	0.000608	2.65E-06	
153	0.000587	2.63E-05	0.003327
2.80E-05	0.000594	2.69E-06	
154	0.000588	2.73E-05	0.004229
3.10E-05	0.000505	2.84E-06	
155	0.000590	2.89E-05	0.004648
3.37E-05	0.000351	3.06E-06	
156	0.000591	3.01E-05	0.004631
3.31E-05	0.000195	3.30E-06	
157	0.000593	3.05E-05	0.004242
3.17E-05	0.000123	3.39E-06	
158	0.000594	3.36E-05	0.003553
3.34E-05	0.000163	3.84E-06	
159	0.000595	4.00E-05	0.002635
3.38E-05	0.000203	4.43E-06	
160	0.000597	5.01E-05	0.001554
3.36E-05	0.000230	5.05E-06	
161	0.000598	6.63E-05	0.000366
3.44E-05	0.000245	5.38E-06	
162	0.000598	7.15E-05	2.57E-08
3.44E-05	0.000246	5.36E-06	
163	0.000604	5.20E-05	3.55E-05
3.02E-05	0.000829	9.83E-05	
164	0.000603	6.41E-05	0.001011
0.000106	0.000716	7.31E-05	
165	0.000601	7.66E-05	0.002049
0.000188	0.000609	6.35E-05	
166	0.000600	8.27E-05	0.002914
0.000226	0.000450	4.75E-05	
167	0.000600	8.15E-05	0.003521
0.000245	0.000280	3.23E-05	
168	0.000600	7.45E-05	0.003784
0.000247	0.000168	2.51E-05	
169	0.000601	6.28E-05	0.003621
0.000226	0.000224	2.58E-05

4.81E-06	0.000567	4.54E-05	
195	0.000604	2.70E-06	0.001756
4.84E-05	0.000673	5.72E-05	
196	0.000603	1.24E-05	0.003885
0.000145	0.000696	5.41E-05	
197	0.000603	3.23E-05	0.005520
0.000214	0.000629	5.93E-05	
198	0.000602	5.02E-05	0.006647
0.000255	0.000484	4.83E-05	
199	0.000602	6.25E-05	0.007189
0.000268	0.000348	3.69E-05	
200	0.000601	5.82E-05	0.007359
0.000265	0.000290	3.25E-05	
201	0.000601	6.71E-05	0.006901
0.000246	0.000331	3.48E-05	
202	0.000601	5.94E-05	0.005800
0.000203	0.000420	4.25E-05	
203	0.000601	4.65E-05	0.004129
0.000135	0.000501	5.07E-05	
204	0.000602	3.24E-05	0.001888
4.88E-05	0.000573	5.40E-05	
205	0.000602	2.37E-05	2.80E-05
2.99E-05	0.000701	6.33E-05	
206	0.000604	1.54E-05	0.001993
0.000110	0.000790	7.71E-05	
207	0.000605	1.77E-05	0.003452
0.000196	0.000771	7.57E-05	
208	0.000607	2.77E-05	0.004369
0.000244	0.000665	6.62E-05	
209	0.000608	4.85E-05	0.004796
0.000270	0.000495	4.98E-05	
210	0.000609	6.66E-05	0.004777
0.000273	0.000342	3.38E-05	
211	0.000610	8.01E-05	0.004378
0.000260	0.000284	2.82E-05	
212	0.000610	8.73E-05	0.003671
0.000236	0.000309	2.95E-05	
213	0.000610	8.78E-05	0.002726
0.000201	0.000335	3.12E-05	
214	0.000609	8.12E-05	0.001611
0.000145	0.000348	3.23E-05	
215	0.000608	7.16E-05	0.000387
3.34E-05	0.000257	2.11E-05	
216	0.000607	6.65E-05	3.05E-05
3.16E-05	0.000251	2.60E-05	
217	0.000594	7.44E-05	3.17E-05
4.67E-05	0.000829	8.69E-05	
218	0.000594	6.53E-05	0.000997
4.99E-05	0.000687	6.44E-05	
219	0.000594	6.17E-05	0.002008
5.79E-05	0.000565	5.49E-05	
220	0.000595	6.14E-05	0.002852
6.85E-05	0.000405	3.98E-05	
221	0.000595	6.01E-05	0.003445
7.39E-05	0.000252	2.71E-05	
222	0.000596	5.57E-05	0.003702
7.26E-05	0.000164	2.45E-05	
223	0.000596	4.84E-05	0.003540
6.89E-05	0.000226	2.95E-05	
224	0.000597	4.07E-05	0.002899
6.83E-05	0.000321	3.68E-05	
225	0.000598	3.59E-05	0.001711
7.23E-05	0.000431	4.67E-05	
226	0.000599	3.37E-05	1.74E-05
7.85E-05	0.000488	5.17E-05	
227	0.000600	2.77E-05	0.001384
8.39E-05	0.000599	6.07E-05	
228	0.000601	1.89E-05	0.003106
8.35E-05	0.000640	6.90E-05	
229	0.000601	1.79E-05	0.004433
7.78E-05	0.000593	6.42E-05	
230	0.000602	2.21E-05	0.005353
7.85E-05	0.000471	5.25E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	0.000602	2.55E-05	0.005812
8.08E-05	0.000346	3.99E-05	
232	0.000602	2.57E-05	0.005983
7.91E-05	0.000273	3.19E-05	
233	0.000602	2.15E-05	0.005674
7.32E-05	0.000290	2.69E-05	
234	0.000601	1.47E-05	0.004829
6.66E-05	0.000367	2.70E-05	
235	0.000601	1.03E-05	0.003474
6.35E-05	0.000456	3.08E-05	
236	0.000601	1.19E-05	0.001589
5.89E-05	0.000502	3.40E-05	
237	0.000601	1.88E-05	1.69E-05
5.39E-05	0.000569	3.77E-05	
238	0.000600	2.51E-05	0.001531
6.56E-05	0.000678	4.99E-05	
239	0.000600	3.50E-05	0.003405
6.86E-05	0.000712	5.85E-05	
240	0.000600	4.76E-05	0.004825
6.80E-05	0.000653	5.66E-05	
241	0.000600	5.86E-05	0.005787
7.12E-05	0.000512	4.88E-05	
242	0.000600	6.55E-05	0.006222
7.44E-05	0.000371	4.06E-05	
243	0.000600	6.66E-05	0.006282
7.43E-05	0.000291	3.58E-05	
244	0.000600	6.15E-05	0.005874
7.10E-05	0.000311	3.72E-05	
245	0.000600	5.17E-05	0.004923
6.81E-05	0.000385	4.39E-05	
246	0.000600	3.95E-05	0.003491
6.82E-05	0.000464	5.02E-05	
247	0.000600	2.63E-05	0.001578
6.42E-05	0.000499	5.17E-05	
248	0.000600	2.02E-05	1.69E-05
5.23E-05	0.000560	5.36E-05	
249	0.000599	1.22E-05	0.001703
5.87E-05	0.000664	6.53E-05	
250	0.000599	1.13E-05	0.003800
6.45E-05	0.000692	7.18E-05	
251	0.000598	2.39E-05	0.005409
6.79E-05	0.000631	6.54E-05	
252	0.000598	3.70E-05	0.006516
7.54E-05	0.000492	5.20E-05	
253	0.000597	4.67E-05	0.007049
8.20E-05	0.000356	3.59E-05	
254	0.000597	5.17E-05	0.007214
8.48E-05	0.000288	2.78E-05	
255	0.000597	5.20E-05	0.006761
8.37E-05	0.000326	3.09E-05	
256	0.000597	4.88E-05	0.005677
8.36E-05	0.000414	3.93E-05	
257	0.000597	4.44E-05	0.004032
8.99E-05	0.000512	4.93E-05	
258	0.000598	4.06E-05	0.001824
9.10E-05	0.000564	5.39E-05	
259	0.000598	3.77E-05	2.31E-05
8.54E-05	0.000689	6.45E-05	
260	0.000599	2.91E-05	0.001938
7.75E-05	0.000783	7.92E-05	
261	0.000600	2.15E-05	0.003374
7.25E-05	0.000776	7.81E-05	
262	0.000602	2.36E-05	0.004276
7.63E-05	0.000681	6.89E-05	
263	0.000603	3.63E-05	0.004694
8.46E-05	0.000521	5.36E-05	
264	0.000605	4.93E-05	0.004676
9.13E-05	0.000368	4.04E-05	
265	0.000606	5.94E-05	0.004285
9.16E-05	0.000284	3.41E-05	
266	0.000607	6.63E-05	0.003590
8.40E-05	0.000300	3.49E-05	
267	0.000607	7.13E-05	0.002663
7.02E-05	0.000329	3.74E-05	
268	0.000608	7.41E-05	0.001569
5.30E-05	0.000343	3.95E-05	
269	0.000607	7.92E-05	0.000367
3.47E-05	0.000256	2.52E-05	
270	0.000607	8.01E-05	2.58E-05
3.80E-05	0.000249	3.07E-05	
271	0.000431	1.13E-05	.000000
7.06E-05	0.000564	7.47E-06	
272	0.001015	5.71E-05	.000000
8.09E-05	0.000396	2.90E-06	
273	.000000	.000000	.000000
6.62E-05	0.000493	3.50E-06	
274	0.001208	3.78E-06	.000000
5.77E-05	0.000486	3.64E-06	
275	0.000669	2.78E-05	.000000
0.000114	0.000558	3.82E-06	
276	0.001385	1.36E-05	.000000
3.84E-05	0.000255	4.19E-06	
277	0.000493	3.52E-06	.000000
7.94E-05	0.000642	2.97E-06	
278	0.001066	5.99E-05	.000000
5.54E-05	0.000422	2.63E-06	
279	.000000	.000000	.000000
4.04E-05	0.000517	3.24E-06	
280	0.001252	3.97E-06	.000000
3.34E-05	0.000511	3.54E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.000712	1.60E-05	.000000
3.86E-05	0.000589	3.67E-06	
282	0.001477	7.12E-05	.000000
2.49E-05	0.000253	3.44E-06	
283	0.000422	-1.29E-21	.000000
8.51E-05	0.000533	2.20E-06	
284	0.000973	-1.39E-20	.000000
7.90E-05	0.000377	2.03E-06	
285	4.47E-07	1.51E-05	.000000
2.02E-05	0.000482	2.89E-06	
286	0.001156	0.000232	.000000
7.51E-22	0.000467	2.80E-06	
287	0.000643	9.77E-05	.000000
1.55E-21	0.000549	2.86E-06	
288	0.001331	0.000167	.000000
-5.64E-22	0.000247	5.36E-06	

COMB DL-G2-2 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000565	-7.40E-05	-8.58E-08
-3.55E-05	-0.000230	-4.89E-06	
2	-0.000564	-7.02E-05	-0.002463
-2.72E-05	-0.000220	-4.04E-06	
3	-0.000563	-7.75E-05	-0.004818
-2.41E-05	-0.000193	-2.43E-06	
4	-0.000563	-8.37E-05	-0.006501
-2.07E-05	-0.000150	-1.85E-06	
5	-0.000563	-8.56E-05	-0.007304
-1.65E-05	-9.41E-05	-1.90E-06	
6	-0.000563	-8.59E-05	-0.007141
-1.67E-05	-0.000127	-2.25E-06	
7	-0.000563	-8.35E-05	-0.006074
-1.98E-05	-0.000276	-2.91E-06	
8	-0.000563	-8.00E-05	-0.004327
-2.40E-05	-0.000388	-4.09E-06	
9	-0.000563	-8.13E-05	-0.002191
-2.30E-05	-0.000436	-5.05E-06	
10	-0.000563	-8.48E-05	-2.14E-07
-1.37E-05	-0.000421	-3.24E-06	
11	-0.000563	-7.77E-05	-0.001495
-1.43E-05	-0.000385	-3.43E-06	
12	-0.000564	-6.90E-05	-0.003842
-2.39E-05	-0.000315	-3.26E-06	
13	-0.000565	-6.86E-05	-0.006129
-2.87E-05	-0.000247	-2.71E-06	
14	-0.000565	-7.24E-05	-0.007998
-2.82E-05	-0.000176	-2.21E-06	
15	-0.000566	-7.54E-05	-0.009082
-2.43E-05	-0.000123	-1.94E-06	
16	-0.000566	-7.47E-05	-0.009185
-2.19E-05	-0.000150	-1.83E-06	
17	-0.000566	-7.10E-05	-0.008279
-2.53E-05	-0.000275	-1.85E-06	
18	-0.000565	-6.53E-05	-0.006510
-2.67E-05	-0.000414	-2.68E-06	
19	-0.000565	-5.99E-05	-0.004210
-2.40E-05	-0.000489	-3.98E-06	
20	-0.000565	-6.09E-05	-0.001704
-1.33E-05	-0.000499	-4.50E-06	
21	-0.000564	-6.75E-05	-2.23E-07
-7.20E-06	-0.000470	-3.15E-06	
22	-0.000564	-6.77E-05	-0.001808
-1.33E-05	-0.000424	-3.36E-06	
23	-0.000564	-7.11E-05	-0.004531
-2.53E-05	-0.000340	-2.66E-06	
24	-0.000563	-7.94E-05	-0.007113
-3.01E-05	-0.000261	-2.77E-06	
25	-0.000563	-8.65E-05	-0.009192
-2.97E-05	-0.000180	-2.23E-06	
26	-0.000563	-9.03E-05	-0.010357
-2.61E-05	-0.000131	-2.06E-06	
27	-0.000562	-9.20E-05	-0.010400
-2.60E-05	-0.000184	-2.02E-06	
28	-0.000562	-8.91E-05	-0.009309
-2.96E-05	-0.000333	-2.16E-06	
29	-0.000562	-8.24E-05	-0.007269
-3.01E-05	-0.000480	-3.18E-06	
30	-0.000561	-7.38E-05	-0.004680
-2.51E-05	-0.000552	-4.66E-06	
31	-0.000561	-6.92E-05	-0.001893
-1.30E-05	-0.000557	-5.38E-06	
32	-0.000561	-6.79E-05	-2.21E-07
-6.54E-06	-0.000524	-4.33E-06	
33	-0.000560	-6.13E-05	-0.001767
-1.33E-05	-0.000474	-4.61E-06	
34	-0.000560	-6.26E-05	-0.004390
-2.52E-05	-0.000383	-4.64E-06	
35	-0.000560	-7.30E-05	-0.006835
-2.85E-05	-0.000300	-4.20E-06	
36	-0.000559	-8.85E-05	-0.008763
-2.75E-05	-0.000210	-3.59E-06	
37	-0.000559	-9.00E-05	-0.009784
-2.42E-05	-0.000152	-2.86E-06	
38	-0.000559	-0.000108	-0.009721
-2.65E-05	-0.000203	-2.33E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000559	-0.000110	-0.008590
-3.04E-05	-0.000342	-2.23E-06	
40	-0.000559	-0.000108	-0.006602
-3.07E-05	-0.000467	-2.79E-06	
41	-0.000559	-0.000102	-0.004164
-2.58E-05	-0.000516	-4.09E-06	
42	-0.000560	-0.000102	-0.001639
-1.69E-05	-0.000495	-4.34E-06	
43	-0.000560	-0.000103	-2.44E-07
-1.50E-05	-0.000444	-2.56E-06	
44	-0.000560	-8.30E-05	-0.002986
-2.48E-05	-0.000349	-2.96E-06	
45	-0.000560	-6.39E-05	-0.006058
-2.84E-05	-0.000242	-2.70E-06	
46	-0.000560	-5.55E-05	-0.008828
-2.56E-05	-0.000137	-2.12E-06	
47	-0.000560	-5.22E-05	-0.010925
-2.33E-05	-4.17E-05	-1.70E-06	
48	-0.000560	-5.05E-05	-0.012031
-2.24E-05	-3.11E-05	-1.39E-06	
49	-0.000560	-5.04E-05	-0.011974
-2.67E-05	-0.000179	-1.19E-06	
50	-0.000560	-4.93E-05	-0.010715
-3.03E-05	-0.000395	-1.21E-06	
51	-0.000560	-4.60E-05	-0.008355
-3.25E-05	-0.000589	-1.72E-06	
52	-0.000560	-4.03E-05	-0.005104
-3.58E-05	-0.000738	-3.44E-06	
53	-0.000560	-4.13E-05	-0.001222
-5.41E-05	-0.000815	-5.97E-06	
54	-0.000560	-4.55E-05	-9.68E-08
-6.05E-05	-0.000819	-6.33E-06	
55	-0.000586	-7.35E-05	-4.00E-07
-7.90E-05	-0.000227	-3.14E-06	
56	-0.000586	-6.63E-05	-0.002804
-0.000100	-0.000217	-3.46E-06	
57	-0.000586	-6.25E-05	-0.005406
-0.000117	-0.000190	-1.35E-06	
58	-0.000586	-6.21E-05	-0.007221
-0.000123	-0.000148	-9.85E-07	
59	-0.000586	-6.20E-05	-0.008070
-0.000116	-0.000118	-1.44E-06	
60	-0.000586	-6.13E-05	-0.007865
-0.000100	-0.000180	-2.29E-06	
61	-0.000586	-5.99E-05	-0.006678
-7.94E-05	-0.000329	-3.11E-06	
62	-0.000587	-5.74E-05	-0.004745
-6.02E-05	-0.000446	-3.66E-06	
63	-0.000588	-5.43E-05	-0.002379
-4.29E-05	-0.000492	-3.67E-06	
64	-0.000589	-5.24E-05	-8.84E-07
-3.50E-05	-0.000447	-3.22E-06	
65	-0.000589	-4.94E-05	-0.001619
-5.53E-05	-0.000386	-3.93E-06	
66	-0.000591	-4.51E-05	-0.004197
-8.95E-05	-0.000304	-4.93E-06	
67	-0.000592	-4.16E-05	-0.006682
-0.000116	-0.000240	-1.91E-06	
68	-0.000593	-3.95E-05	-0.008693
-0.000131	-0.000172	-1.50E-06	
69	-0.000593	-3.83E-05	-0.009853
-0.000133	-0.000137	-1.46E-06	
70	-0.000594	-3.67E-05	-0.009953
-0.000125	0.000194	-1.73E-06	
71	-0.000594	-3.39E-05	-0.008968
-0.000106	-0.000313	-2.14E-06	
72	-0.000594	-3.07E-05	-0.007055
-8.26E-05	-0.000459	-2.73E-06	
73	-0.000594	-2.94E-05	-0.004556
-5.70E-05	-0.000541	-3.24E-06	
74	-0.000594	-3.16E-05	-0.001823
-3.02E-05	-0.000546	-3.19E-06	
75	-0.000594	-3.94E-05	-9.00E-07
-1.92E-05	-0.000495	-2.89E-06	
76	-0.000594	-4.65E-05	-0.001923
-3.84E-05	-0.000425	-3.65E-06	
77	-0.000595	-5.45E-05	-0.004868
-7.34E-05	-0.000330	-2.86E-06	
78	-0.000592	-5.98E-05	-0.007646
-0.000102	-0.000253	-1.92E-06	
79	-0.000592	-6.35E-05	-0.009870
-0.000123	-0.000176	-1.54E-06	
80	-0.000591	-6.51E-05	-0.011115
-0.000133	-0.000143	-1.52E-06	
81	-0.000591	-6.65E-05	-0.011157
-0.000133	-0.000218	-1.92E-06	
82	-0.000590	-6.61E-05	-0.009986
-0.000122	-0.000361	-2.43E-06	
83	-0.000590	-6.30E-05	-0.007801
-0.000101	-0.000516	-3.22E-06	
84	-0.000590	-5.69E-05	-0.005017
-7.14E-05	-0.000598	-3.97E-06	
85	-0.000589	-4.81E-05	-0.002008
-3.61E-05	-0.000601	-4.17E-06	
86	-0.000589	-3.94E-05	-8.98E-07
-1.69E-05	-0.000548	-4.11E-06	
87	-0.000589	-3.12E-05	-0.001884
-2.93E-05	-0.000474	-5.00E-06	
88	-0.000588	-3.54E-05	-0.004731
-5.79E-05	-0.000373	-4.40E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	-0.000587	-4.71E-05	-0.007375
-8.48E-05	-0.000293	-3.52E-06	
90	-0.000587	-6.07E-05	-0.009449
-0.000110	-0.000205	-2.95E-06	
91	-0.000586	-7.24E-05	-0.010553
-0.000129	-0.000162	-2.47E-06	
92	-0.000586	-8.22E-05	-0.010493
-0.000137	-0.000227	-2.11E-06	
93	-0.000585	-8.86E-05	-0.009283
-0.000134	-0.000358	-1.52E-06	
94	-0.000586	-9.08E-05	-0.007150
-0.000118	-0.000495	-2.05E-06	
95	-0.000586	-8.81E-05	-0.004514
-9.01E-05	-0.000556	-2.63E-06	
96	-0.000586	-7.98E-05	-0.001761
-5.53E-05	-0.000537	-2.79E-06	
97	-0.000587	-7.05E-05	-9.13E-07
-3.69E-05	-0.000467	-2.31E-06	
98	-0.000587	-5.20E-05	-0.003156
-4.53E-05	-0.000344	-3.23E-06	
99	-0.000588	-3.17E-05	-0.006435
-6.68E-05	-0.000233	-2.24E-06	
100	-0.000588	-2.14E-05	-0.009375
-8.86E-05	-0.000132	-1.46E-06	
101	-0.000588	-2.05E-05	-0.011592
-0.000114	-4.00E-05	-1.20E-06	
102	-0.000589	-2.18E-05	-0.012772
-0.000138	-4.63E-05	-1.10E-06	
103	-0.000589	-2.39E-05	-0.012726
-0.000157	-0.000186	-9.94E-07	
104	-0.000589	-2.72E-05	-0.011415
-0.000165	-0.000390	-9.13E-07	
105	-0.000589	-3.03E-05	-0.008954
-0.000161	-0.000595	-1.44E-06	
106	-0.000588	-3.43E-05	-0.005526
-0.000145	-0.000771	-2.66E-06	
107	-0.000588	-4.11E-05	-0.001340
-0.000121	-0.000888	-4.00E-06	
108	-0.000588	-4.39E-05	-4.25E-07
-0.000115	-0.000897	-4.20E-06	
109	-0.000553	-6.78E-05	-7.55E-08
-0.000172	-0.000222	-4.87E-06	
110	-0.000553	-6.33E-05	-0.002355
-0.000228	-0.000413	-4.20E-06	
111	-0.000553	-6.36E-05	-0.004611
-0.000277	-0.000187	-3.64E-06	
112	-0.000553	-7.01E-05	-0.006225
-0.000296	-0.000146	-2.71E-06	
113	-0.000553	-7.50E-05	-0.006999
-0.000289	-0.000103	-1.87E-06	
114	-0.000553	-7.67E-05	-0.006847
-0.000262	-0.000167	-1.54E-06	
115	-0.000554	-7.43E-05	-0.005827
-0.000218	-0.000304	-1.56E-06	
116	-0.000554	-6.80E-05	-0.004153
-0.000163	-0.000402	-1.70E-06	
117	-0.000555	-6.08E-05	-0.002104
-0.000108	-0.000438	-2.01E-06	
118	-0.000555	-5.64E-05	-2.12E-07
-9.30E-05	-0.000415	-2.52E-06	
119	-0.000555	-5.62E-05	-0.001439
-0.000127	-0.000377	-2.97E-06	
120	-0.000555	-5.94E-05	-0.003699
-0.000199	-0.000306	-3.32E-06	
121	-0.000554	-6.52E-05	-0.005903
-0.000259	-0.000240	-3.07E-06	
122	-0.000554	-7.08E-05	-0.007701
-0.000295	-0.000171	-2.54E-06	
123	-0.000553	-7.44E-05	-0.008745
-0.000307	-0.000125	-2.03E-06	
124	-0.000553	-7.51E-05	-0.008845
-0.000298	-0.000167	-1.58E-06	
125	-0.000552	-7.23E-05	-0.007973
-0.000269	-0.000288	-1.35E-06	
126	-0.000552	-6.46E-05	-0.006273
-0.000222	-0.000418	-1.44E-06	
127	-0.000552	-5.36E-05	-0.004058
-0.000159	-0.000486	-1.75E-06	
128	-0.000551	-4.44E-05	-0.001643
-9.72E-05	-0.000491	-2.17E-06	
129	-0.000551	-4.40E-05	-2.22E-07
-8.10E-05	-0.000461	-2.58E-06	
130	-0.000551	-4.68E-05	-0.001744
-0.000109	-0.000414	-3.02E-06	
131	-0.000552	-5.74E-05	-0.004369
-0.000180	-0.000332	-3.30E-06	
132	-0.000552	-6.82E-05	-0.006857
-0.000243	-0.000254	-3.03E-06	
133	-0.000553	-7.60E-05	-0.008859
-0.000287	-0.000175	-2.46E-06	
134	-0.000553	-8.00E-05	-0.009981
-0.000307	-0.000128	-2.04E-06	
135	-0.000554	-8.09E-05	-0.010022
-0.000307	-0.000180	-1.76E-06	
136	-0.000555	-7.72E-05	-0.008970
-0.000286	-0.000323	-1.68E-06	
137	-0.000555	-6.97E-05	-0.007006
-0.000242	-0.000465	-1.95E-06	
138	-0.000556	-5.89E-05	-0.004512
-0.000178	-0.000535	-2.42E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	-0.000556	-4.88E-05	-0.001824
-0.000108	-0.000541	-2.97E-06	
140	-0.000556	-4.54E-05	-2.20E-07
-8.01E-05	-0.000510	-3.49E-06	
141	-0.000556	-4.61E-05	-0.001704
-9.83E-05	-0.000461	-4.01E-06	
142	-0.000556	-5.63E-05	-0.004233
-0.000162	-0.000374	-4.33E-06	
143	-0.000556	-6.95E-05	-0.006589
-0.000225	-0.000293	-4.15E-06	
144	-0.000556	-8.05E-05	-0.008444
-0.000274	-0.000204	-3.49E-06	
145	-0.000556	-8.93E-05	-0.009427
-0.000303	-0.000145	-2.76E-06	
146	-0.000556	-9.37E-05	-0.009367
-0.000311	-0.000178	-2.12E-06	
147	-0.000555	-9.20E-05	-0.008276
-0.000298	-0.000309	-1.74E-06	
148	-0.000555	-8.85E-05	-0.006362
-0.000260	-0.000434	-1.33E-06	
149	-0.000555	-8.18E-05	-0.004012
-0.000199	-0.000487	-1.38E-06	
150	-0.000555	-7.75E-05	-0.001579
-0.000127	-0.000473	-1.48E-06	
151	-0.000555	-7.49E-05	-2.44E-07
-9.30E-05	-0.000428	-1.76E-06	
152	-0.000555	-7.22E-05	-0.002869
-0.000111	-0.000338	-2.34E-06	
153	-0.000556	-7.01E-05	-0.005818
-0.000172	-0.000235	-2.46E-06	
154	-0.000556	-6.84E-05	-0.008473
-0.000232	-0.000133	-2.16E-06	
155	-0.000557	-6.36E-05	-0.010479
-0.000282	-4.02E-05	-1.64E-06	
156	-0.000558	-5.55E-05	-0.011537
-0.000318	-2.02E-05	-1.35E-06	
157	-0.000558	-4.51E-05	-0.011476
-0.000340	-0.000132	-1.25E-06	
158	-0.000558	-3.90E-05	-0.010263
-0.000346	-0.000332	-1.53E-06	
159	-0.000559	-3.38E-05	-0.007999
-0.000330	-0.000524	-1.97E-06	
160	-0.000559	-3.26E-05	-0.004882
-0.000283	-0.000679	-2.44E-06	
161	-0.000558	-3.87E-05	-0.001168
-0.000201	-0.000770	-2.74E-06	
162	-0.000558	-4.09E-05	-8.19E-08
-0.000181	-0.000777	-2.76E-06	
163	-0.000576	-5.82E-05	-0.000109
-0.000168	-0.000256	-3.85E-05	
164	-0.000575	-6.94E-05	-0.002761
-6.81E-05	-0.000366	-3.65E-05	
165	-0.000575	-6.88E-05	-0.005308
-6.32E-05	-0.000327	-3.49E-05	
166	-0.000574	-7.18E-05	-0.007114
-6.95E-05	-0.000296	-3.27E-05	
167	-0.000574	-7.24E-05	-0.007963
-7.02E-05	-0.000266	-3.15E-05	
168	-0.000574	-7.14E-05	-0.007766
-6.42E-05	-0.000314	-3.55E-05	
169	-0.000574	-6.87E-05	-0.006591
-5.91E-05	-0.000461	-4.62E-05	
170	-0.000575	-6.38E-05	-0.004688
-6.70E-05	-0.000577	-5.44E-05	
171	-0.000575	-6.09E-05	-0.002371
-8.15E-05	-0.000620	-5.66E-05	
172	-0.000576	-5.68E-05	-7.25E-05
-7.67E-05	-0.000565	-4.65E-05	
173	-0.000576	-5.55E-05	-0.001623
-7.02E-05	-0.000461

198	-0.000572	-7.15E-05	-0.009362
-6.66E-05	-0.000347	-3.77E-05	
199	-0.000571	-8.37E-05	-0.010460
-7.41E-05	-0.000313	-3.73E-05	
200	-0.000571	-9.26E-05	-0.010399
-7.72E-05	-0.000383	-4.35E-05	
201	-0.000571	-9.79E-05	-0.009195
-7.39E-05	-0.000516	-5.59E-05	
202	-0.000571	-9.85E-05	-0.007076
-6.80E-05	-0.000646	-6.85E-05	
203	-0.000572	-9.44E-05	-0.004476
-6.76E-05	-0.000692	-7.37E-05	
204	-0.000572	-8.52E-05	-0.001767
-6.89E-05	-0.000648	-6.60E-05	
205	-0.000573	-7.50E-05	-8.11E-05
-7.54E-05	-0.000530	-5.78E-05	
206	-0.000573	-5.41E-05	-0.003154
-8.15E-05	-0.000473	-5.37E-05	
207	-0.000573	-3.80E-05	-0.006402
-7.04E-05	-0.000367	-4.26E-05	
208	-0.000573	-2.87E-05	-0.009319
-6.51E-05	-0.000268	-3.33E-05	
209	-0.000573	-3.01E-05	-0.011531
-7.44E-05	-0.000185	-2.70E-05	
210	-0.000574	-3.22E-05	-0.012708
-8.57E-05	-0.000199	-2.58E-05	
211	-0.000574	-3.40E-05	-0.012660
-9.14E-05	-0.000350	-3.97E-05	
212	-0.000574	-3.60E-05	-0.011347
-9.01E-05	-0.000560	-6.09E-05	
213	-0.000574	-3.66E-05	-0.008886
-8.75E-05	-0.000755	-8.64E-05	
214	-0.000574	-3.58E-05	-0.005481
-8.84E-05	-0.000906	-9.83E-05	
215	-0.000574	-3.52E-05	-0.001360
-0.000119	-0.000923	-7.26E-05	
216	-0.000574	-3.44E-05	-9.12E-05
-0.000159	-0.000859	-8.59E-05	
217	-0.000569	-6.82E-05	-0.000159
-5.34E-05	-0.000251	-3.19E-05	
218	-0.000569	-6.13E-05	-0.002745
-0.000180	-0.000359	-3.13E-05	
219	-0.000569	-5.81E-05	-0.005228
-0.000262	-0.000321	-2.91E-05	
220	-0.000569	-5.72E-05	-0.006992
-0.000282	-0.000289	-2.93E-05	
221	-0.000569	-5.75E-05	-0.007820
-0.000275	-0.000272	-2.93E-05	
222	-0.000569	-5.78E-05	-0.007628
-0.000251	-0.000342	-3.78E-05	
223	-0.000570	-5.63E-05	-0.006478
-0.000211	-0.000483	-5.18E-05	
224	-0.000570	-5.20E-05	-0.004614
-0.000150	-0.000588	-6.19E-05	
225	-0.000571	-4.95E-05	-0.002348
-6.72E-05	-0.000617	-6.55E-05	
226	-0.000572	-4.88E-05	-0.000127
-1.58E-05	-0.000553	-5.58E-05	
227	-0.000572	-4.62E-05	-0.001617
-7.74E-05	-0.000452	-4.85E-05	
228	-0.000573	-4.27E-05	-0.004097
-0.000178	-0.000435	-4.94E-05	
229	-0.000574	-4.22E-05	-0.006500
-0.000244	-0.000374	-4.41E-05	
230	-0.000574	-4.31E-05	-0.008458
-0.000282	-0.000313	-3.66E-05	
231	-0.000574	-4.37E-05	-0.009590
-0.000292	-0.000287	-3.59E-05	
232	-0.000574	-4.26E-05	-0.009690
-0.000284	-0.000346	-3.82E-05	
233	-0.000574	-3.96E-05	-0.008732
-0.000259	-0.000464	-4.36E-05	
234	-0.000574	-3.46E-05	-0.006870
-0.000211	-0.000601	-5.07E-05	
235	-0.000573	-3.09E-05	-0.004455
-0.000137	-0.000668	-5.39E-05	
236	-0.000573	-3.12E-05	-0.001818
-4.20E-05	-0.000645	-4.68E-05	
237	-0.000573	-3.69E-05	-0.000118
-5.91E-06	-0.000545	-3.59E-05	
238	-0.000573	-4.21E-05	-0.001917
-5.55E-05	-0.000489	-3.32E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
212

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	-0.000572	-4.95E-05	-0.004765
-0.000157	-0.000460	-3.17E-05	
240	-0.000572	-5.67E-05	-0.007457
-0.000232	-0.000388	-2.87E-05	
241	-0.000572	-6.20E-05	-0.009626
-0.000277	-0.000316	-2.84E-05	
242	-0.000572	-6.43E-05	-0.010841
-0.000294	-0.000292	-3.29E-05	
243	-0.000572	-6.55E-05	-0.010883
-0.000294	-0.000363	-4.00E-05	
244	-0.000573	-6.40E-05	-0.009739
-0.000276	-0.000502	-5.35E-05	
245	-0.000572	-5.93E-05	-0.007609
-0.000230	-0.000650	-6.77E-05	
246	-0.000572	-5.27E-05	-0.004913
-0.000156	-0.000719	-7.47E-05	
247	-0.000572	-4.44E-05	-0.002001
-5.44E-05	-0.000697	-6.85E-05	
248	-0.000572	-3.77E-05	-0.000118
-5.35E-06	-0.000597	-5.68E-05	
249	-0.000572	-3.18E-05	-0.001878
-4.33E-05	-0.000538	-5.50E-05	
250	-0.000572	-3.49E-05	-0.004629
-0.000140	-0.000503	-5.21E-05	
251	-0.000572	-4.81E-05	-0.007187
-0.000215	-0.000426	-4.43E-05	
252	-0.000571	-6.10E-05	-0.009207
-0.000265	-0.000345	-3.66E-05	
253	-0.000570	-7.12E-05	-0.010284
-0.000289	-0.000308	-3.07E-05	
254	-0.000570	-7.95E-05	-0.010224
-0.000297	-0.000364	-3.35E-05	
255	-0.000570	-8.42E-05	-0.009042
-0.000286	-0.000491	-4.66E-05	
256	-0.000570	-8.52E-05	-0.006963
-0.000246	-0.000621	-5.91E-05	
257	-0.000570	-8.24E-05	-0.004412
-0.000177	-0.000672	-6.44E-05	
258	-0.000570	-7.15E-05	-0.001756
-7.63E-05	-0.000636	-5.70E-05	
259	-0.000570	-6.80E-05	-0.000137
-1.59E-05	-0.000528	-4.87E-05	
260	-0.000571	-5.43E-05	-0.003121
-6.75E-05	-0.000476	-4.43E-05	
261	-0.000571	-3.93E-05	-0.006298
-0.000152	-0.000367	-3.44E-05	
262	-0.000572	-3.03E-05	-0.009151
-0.000219	-0.000269	-2.66E-05	
263	-0.000573	-2.80E-05	-0.011315
-0.000269	-0.000187	-2.21E-05	
264	-0.000573	-2.68E-05	-0.012465
-0.000303	-0.000190	-2.47E-05	
265	-0.000573	-2.49E-05	-0.012415
-0.000323	-0.000317	-3.63E-05	
266	-0.000573	-2.46E-05	-0.011127
-0.000328	-0.000512	-5.57E-05	
267	-0.000573	-2.77E-05	-0.008716
-0.000316	-0.000708	-7.52E-05	
268	-0.000573	-3.16E-05	-0.005385
-0.000262	-0.000867	-9.28E-05	
269	-0.000572	-3.79E-05	-0.001357
-0.000118	-0.000909	-6.76E-05	
270	-0.000572	-4.04E-05	-0.000137
-5.91E-05	-0.000857	-8.08E-05	
271	-0.000706	-6.91E-06	.000000
-3.36E-05	-0.000230	-4.89E-06	
272	-0.001027	-5.65E-05	.000000
-2.73E-05	-0.000423	-3.24E-06	
273	.000000	.000000	.000000
-1.70E-05	-0.000471	-3.15E-06	
274	-0.001056	-4.32E-06	.000000
-9.14E-06	-0.000524	-4.33E-06	
275	-0.000795	-2.34E-05	.000000
-4.16E-05	-0.000442	-2.58E-06	
276	-0.000770	-7.58E-06	.000000
-4.58E-05	-0.000820	-6.33E-06	
277	-0.000810	-3.55E-05	.000000
-5.42E-05	-0.000224	-3.14E-06	
278	-0.001077	-5.93E-05	.000000
-4.09E-05	-0.000447	-3.22E-06	
279	.000000	.000000	.000000
-2.66E-05	-0.000495	-2.89E-06	
280	-0.001109	-4.48E-06	.000000
-2.02E-05	-0.000548	-3.11E-06	
281	-0.000852	-1.91E-05	.000000
-1.81E-05	-0.000468	-2.31E-06	
282	-0.000795	-3.84E-05	.000000
-3.13E-05	-0.000903	-4.20E-06	
283	-0.000688	-5.74E-05	.000000
-0.000135	-0.000206	-4.87E-06	
284	-0.001042	-8.55E-05	.000000
-0.000162	-0.000380	-2.52E-06	
285	-3.76E-06	-0.000127	.000000
-8.97E-05	-0.000457	-2.58E-06	
286	-0.000992	-0.000315	.000000
-3.72E-05	-0.000516	-3.49E-06	
287	-0.000761	-0.000142	.000000
-5.15E-05	-0.000436	-1.76E-06	
288	-0.000747	-0.000192	.000000
-5.19E-05	-0.000793	-2.76E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
213

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DL-G2-3 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000888	0.000138	5.54E-08
9.00E-05	0.000896	1.08E-05	
2	0.000865	0.000158	0.001456
0.000139	0.000825	9.01E-06	
3	0.000863	0.000182	0.002941
0.000202	0.000641	5.35E-06	
4	0.000862	0.000197	0.004182
0.000247	0.000397	2.87E-06	
5	0.000862	0.000196	0.005064
0.000270	0.000149	1.49E-06	
6	0.000863	0.000183	0.005462
0.000274	7.66E-06	1.27E-06	
7	0.000865	0.000156	0.005251
0.000251	0.000115	2.44E-06	
8	0.000868	0.000119	0.004329
0.000199	0.000268	4.11E-06	
9	0.000871	7.89E-05	0.002589
0.000126	0.000435	5.94E-06	
10	0.000873	5.23E-05	8.02E-08
8.37E-05	0.000603	7.22E-06	
11	0.000875	5.16E-05	0.002105
0.000107	0.000698	9.30E-06	
12	0.000877	7.12E-05	0.004628
0.000182	0.000738	9.36E-06	
13	0.000878	9.46E-05	0.006549
0.000246	0.000664	7.78E-06	
14	0.000880	0.000118	0.007861
0.000289	0.000482	5.75E-06	
15	0.000881	0.000133	0.008502
0.000309	0.000289	4.35E-06	
16	0.000882	0.000134	0.008736
0.000313	0.000174	3.17E-06	
17	0.000883	0.000120	0.008302
0.000296	0.000211	2.83E-06	
18	0.000883	9.31E-05	0.007095
0.000252	0.000332	3.97E-06	
19	0.000883	5.80E-05	0.005135
0.000181	0.000473	5.69E-06	
20	0.000883	3.31E-05	0.002386
9.47E-05	0.000631	7.27E-06	
21	0.000883	3.78E-05	1.17E-07
6.46E-05	0.000735	8.08E-06	
22	0.000881	5.63E-05	0.002304
9.81E-05	0.000814	1.02E-05	
23	0.000879	9.80E-05	0.005037
0.000181	0.000833	1.02E-05	
24	0.000877	0.000139	0.007088
0.000250	0.000738	8.54E-06	
25	0.000875	0.000172	0.008460
0.000295	0.000529	6.26E-06	
26	0.000874	0.000191	0.009069
0.000315	0.000314	4.73E-06	
27	0.000872	0.000193	0.009154
0.000315	0.000199	3.32E-06	
28	0.000871	0.000177	0.008585
0.000296	0.000240	2.80E-06	
29	0.000870	0.000146	0.007230
0.000251	0.000358	3.96E-06	
30	0.000868	0.000105	0.005162
0.000181	0.000486	5.74E-06	
31	0.000867	5.99E-05	0.002371
9.70E-05	0.000631	7.45E-06	
32	0.000866	3.84E-05	1.32E-07
6.30E-05	0.000726	8.59E-06	
33	0.000865	3.50E-05	0.002550
9.56E-05	0.000794	1.07E-05	
34	0.000863	6.61E-05	0.005602
0.000185	0.000801	1.08E-05	
35	0.000862	0.000108	0.007922
0.000257	0.000699	9.25E-06	
36	0.000861	0.000144	0.009502
0.000304	0.000490	7.08E-06	
37	0.000859	0.000165	0.010250
0.000324	0.000281	4.81E-06	
38	0.000859	0.000172	0.010491
0.000323	0.000194	3.25E-06	
39	0.000858	0.000165	0.009865
0.000304	0.000260	2.54E-06	
40	0.000858	0.000142	0.008327
0.000260	0.000398	3.41E-06	
41	0.000858	0.000110	0.005959
0.000194	0.000554	5.45E-06	
42	0.000859	7.76E-05	0.002743
0.000117	0.000725	7.65E-06	
43	0.000860	6.15E-05	7.73E-08
9.22E-05	0.000838	9.25E-06	
44	0.000862	5.00E-05	0.002906
0.000141	0.000939	1.39E-05	
45	0.000864	7.82E-05	0.004997
0.000218	0.000918	1.39E-05	
46	0.000867	0.000120	0.006286
0.000274	0.000774	1.20E-05	
47	0.000869	0.000164	0.006861
0.000301	0.000530	9.79E-06	
48	0.000871	0.000197	0.006803
0.000305	0.000292	7.32E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
214

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000871	0.000217	0.006214
0.000291	0.000196	4.99E-06	
50	0.000870	0.000222	0.005197
0.000259	0.000234	3.22E-06	
51	0.000868	0.000213	0.003852
0.000211	0.000290	2.50E-06	
52	0.000866	0.000192	0.002272
0.000145	0.000331	2.80E-06	
53	0.000864	0.000171	0.000535
7.30E-05	0.000354	4.23E-06	
54	0.000863	0.000168	4.61E-08
6.51E-05	0.000356	4.43E-06	
55	0.000812	0.000127	3.66E-08
4.98E-05	0.000828	4.04E-06	
56	0.000812	0.000121	0.001353
7.69E-05	0.000748	3.17E-06	
57	0.000812	0.000120	0.002733
0.000111	0.000566	1.98E-06	
58	0.000813	0.000117	0.003883
0.000138	0.000340	1.32E-06	
59	0.000813	0.000110	0.004691
0.000153	0.000128	9.37E-07	
60	0.000814	9.73E-05	0.005040
0.000156	1.55E-05	1.15E-06	
61	0.000815	8.17E-05	0.004823
0.000148	0.000113	1.67E-06	
62	0.000817	6.74E-05	0.003960
0.000127	0.000251	2.72E-06	
63	0.000818	5.74E-05	0.002369
8.48E-05	0.000400	4.05E-06	
64	0.000820	5.27E-05	6.11E-08
5.73E-05	0.000558	3.17E-06	
65	0.000821	4.43E-05	0.001929
9.50E-05	0.000646	3.75E-06	
66	0.000822	3.46E-05	0.004247
0.000144	0.000674	3.77E-06	
67	0.000823	3.42E-05	0.006038
0.000177	0.000598	3.16E-06	
68	0.000824	3.86E-05	0.007285
0.000194	0.000424	2.53E-06	
69	0.000824	4.20E-05	0.007908
0.000199	0.000256	1.94E-06	
70	0.000824	4.15E-05	0.008139
0.000196	0.000161	1.61E-06	
71	0.000824	3.60E-05	0.007718
0.000184	0.000201	1.70E-06	
72	0.000824	2.73E-05	0.006573
0.000157	0.000314	2.31E-06	
73	0.000824	2.29E-05	0.004743
0.000118	0.000442	3.62E-06	
74	0.000824	2.56E-05	0.002204
6.17E-05	0.000585	4.71E-06	
75	0.000823	3.66E-05	9.19E-08
3.22E-05	0.000686	3.87E-06	
76	0.000823	4.52E-05	0.002125
7.46E-05	0.000761	4.44E-06	
77	0.000822	5.79E-05	0.004648
0.000132	0.000772	4.49E-06	
78	0.000821	7.51E-05	0.006565
0.000170	0.000679	3.86E-06	
79	0.000821	9.01E-05	0.007869
0.000192	0.000486	3.10E-06	
80	0.000821	9.94E-05	0.008460
0.000201	0.000290	2.28E-06	
81	0.000820	0.000101	0.008541
0.000202	0.000185	1.62E-06	
82	0.000820	9.53E-05	0.007988
0.000193	0.000229	1.52E-06	
83	0.000820	8.23E-05	0.006698
0.000171	0.000338	2.23E-06	
84	0.000819	6.52E-05	0.004764
0.000132	0.000453	3.64E-06	
85	0.000819	4.99E-05	0.002188
7.31E-05	0.000584	4.91E-06	
86	0.000818	3.82E-05	1.07E-07
2.93E-05	0.000676	4.38E-06	
87	0.000818	2.65E-05	0.002360
6.12E-05	0.000744	4.97E-06	
88	0.000817	2.65E-05	0.005187
0.000121	0.000747	5.19E-06	
89	0.000816	4.23E-05	0.007362
0.000164	0.000651	4.77E-06	
90	0.000816	6.03E-05	0.008864
0.000193	0.000459	4.00E-06	
91	0.000815	7.51E-05	0.009591
0.000208	0.000270	2.93E-06	
92	0.000815	8.43E-05	0.009817
0.000215	0.000181	1.95E-06	
93	0.000814	8.70E-05	0.009203
0.000213	0.000247	1.24E-06	
94	0.000814	8.34E-05	0.007734
0.000197	0.000376	1.35E-06	
95	0.000814	7.57E-05	0.005510
0.000164	0.000517	3.43E-06	
96	0.000815	6.86E-05	0.002532
0.000112	0.000672	5.47E-06	
97	0.000816	6.39E-05	5.01E-08
7.31E-05	0.000780	4.68E-06	
98	0.000818	4.94E-05	0.002675
9.29E-05	0.000879	5.78E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
215

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	0.000820	4.00E-05	0.004604
0.000140	0.000858	6.40E-06	
100	0.000822	4.51E-05	0.005821
0.000164	0.000727	6.52E-06	
101	0.000824	6.59E-05	0.006389
0.000175	0.000507	6.22E-06	
102	0.000826	8.82E-05	0.006365
0.000180	0.000292	5.49E-06	
103	0.000828	0.000107	0.005834
0.000174	0.000178	4.52E-06	
104	0.000829	0.000122	0.004891
0.000157	0.000218	3.44E-06	
105	0.000830	0.000132	0.003631
0.000131	0.000273	2.58E-06	
106	0.000830	0.000135	0.002143
9.82E-05	0.000313	2.60E-06	
107	0.000829	0.000134	0.000506
6.43E-05	0.000335	4.42E-06	
108	0.000828	0.000134	3.58E-08
6.08E-05	0.000337	4.74E-06	
109	0.000827	9.77E-05	5.10E-08
5.25E-05	0.000609	3.30E-06	
110	0.000715	6.35E-05	0.001255
5.75E-05	0.000557	3.17E-06	
111	0.000718	4.46E-05	0.002536
6.36E-05	0.000430	2.80E-06	
112	0.000721	4.88E-05	0.003600
6.92E-05	0.000255	2.38E-06	
113	0.000722	5.57E-05	0.004337
7.15E-05	7.40E-05	2.05E-06	
114	0.000723	6.04E-05	0.004636
6.94E-05	1.16E-05	2.46E-06	
115	0.000722	6.12E-05	0.004395
6.29E-05	0.000113	4.02E-06	
116	0.000722	5.77E-05	0.003552
4.93E-05	0.000239	5.15E-06	
117	0.000721	4.90E-05	0.002068
2.62E-05	0.000363	5.29E-06	
118	0.000720	3.63E-05	7.76E-08
2.14E-05	0.000466	4.37E-06	
119	0.000525	4.55E-05	0.001680
4.92E-05	0.000517	3.57E-06	
120	0.000720	3.65E-05	0.003812
8.56E-05	0.000533	2.66E-06	
121	0.000719	3.79E-05	0.005517
0.000102	0.000473	2.20E-06	
122	0.000719	3.95E-05	0.006722
0.000107	0.000335	2.32E-06	
123	0.000718	4.19E-05	0.007338
0.000104	0.000180	2.61E-06	
124	0.000717	4.51E-05	0.007560
0.000100	0.000132	3.57E-06	
125	0.000716	4.55E-05	0.007144
9.48E-05	0.000192	4.97E-06	
126	0.000715	4.24E-05	0.006037
8.16E-05	0.000300	6.26E-06	
127	0.000714	3.53E-05	0.004294
5.71E-05	0.000419	7.00E-06	
128	0.000714	2.64E-05	0.001947
2.24E-05	0.000531	6.52E-06	
129	0.000713	2.22E-05	1.01E-07
1.25E-05	0.000593	5.61E-06	
130	0.000714	2.61E-05	0.001869
3.31E-05	0.000632	4.59E-06	
131	0.000716	4.12E-05	0.004200
7.21E-05	0.000632	3.31E-06	
132	0.000718	5.14E-05	0.006027
9.41E-05	0.000556	2.47E-06	
133	0.000720	5.75E-05	0.007287
0.000103	0.000395	2.39E-06	
134	0.000721	6.01E-05	0.007867
0.000104	0.000217	2.73E-06	
135	0.000723	5.99E-05	0.007944
0.000105	0.000155	3.89E-06	
136	0.000725	5.76E-05	0.007399
0.000104	0.000220	5.28E-06	
137	0.000727	5.20E-05	0.006151
9.38E-05	0.000325	6.47E-06	
138	0.000728	4.19E-05	0.004308
7.12E-05	0.000430	5.98E-06	
139	0.000729	2.81E-05	0.001927
3.14E-05	0.000531	6.28E-06	
140	0.000730	2.76E-05	1.13E-07
1.12E-05	0.000584	5.28E-06	
141	0.000731	3.11E-05	0.002093
2.38E-05	0.000617	4.19E-06	
142	0.000731	3.98E-05	0.004715
6.12E-05	0.000611	2.76E-06	
143	0.000731	4.49E-05	0.006789
8.73E-05	0.000533	1.95E-06	
144	0.000731	4.73E-05	0.008239
0.000102	0.000375	1.96E-06	
145	0.000731	4.58E-05	0.008961
0.000109	0.000206	2.66E-06	
146	0.000731	4.13E-05	0.009162
0.000115	0.000150	4.02E-06	
147	0.000732	3.54E-05	0.008555
0.000119	0.000239	5.71E-06	
148	0.000732	3.27E-05	0.007132
0.000114	0.000363	6.76E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
216

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000732	2.94E-05	0.005009
9.56E-05	0.000494	7.23E-06	
150	0.000732	3.77E-05	0.002247
5.54E-05	0.000616	6.44E-06	
151	0.000733	4.91E-05	7.82E-08
2.69E-05	0.000683	5.47E-06	
152	0.000733	5.96E-05	0.002363
3.43E-05	0.000737	4.21E-06	
153	0.000733	6.30E-05	0.004173
5.91E-05	0.000717	3.08E-06	
154	0.000733	6.45E-05	0.005356
7.35E-05	0.000610	2.83E-06	
155	0.000734	6.27E-05	0.005932
8.12E-05	0.000425	3.16E-06	
156	0.000736	5.80E-05	0.005942
8.12E-05	0.000233	4.33E-06	
157	0.000738	5.13E-05	0.005464
7.72E-05	0.000147	6.03E-06	
158	0.000741	4.62E-05	0.004588
7.36E-05	0.000206	8.17E-06	
159	0.000745	4.48E-05	0.003407
6.71E-05	0.000259	1.01E-05	
160	0.000748	5.47E-05	0.002009
5.84E-05	0.000296	1.14E-05	
161	0.000752	9.82E-05	0.000473
4.90E-05	0.000316	1.19E-05	
162	0.000753	0.000112	5.01E-08
4.70E-05	0.000317	1.19E-05	
163	0.000841	0.000123	5.74E-05
4.58E-05	0.001023	0.000128	
164	0.000839	0.000142	0.001393
0.000116	0.000897	9.64E-05	
165	0.000837	0.000161	0.002832
0.000106	0.000717	8.28E-05	
166	0.000836	0.000170	0.004034
0.000253	0.000480	6.31E-05	
167	0.000836	0.000167	0.004885
0.000280	0.000250	4.69E-05	
168	0.000837	0.000152	0.005264
0.000298	0.000113	4.24E-05	
169	0.000839	0.000128	0.005057
0.000272	0.000207	4.71E-05	
170	0.000841	9.62E-05	0.004168
0.000231	0.000348	5.57E-05	
171	0.000844	6.57E-05	0.002494
0.000142	0.000506	6.93E-05	
172	0.000846	4.49E-05	3.04E-05
5.47E-05	7.68E-05	7.68E-05	
173	0.000848	4.38E-05	0.002027
0.000108	0.000765	8.68E-05	
174	0.000850	5.49E-05	0.004461
0.000206	0.000814	9.75E-05	
175	0.000851	7.11E-05	0.006317
0.000269	0.000764	9.07E-05	
176	0.000852	8.79E-05	0.007592
0.000306	0.000565	7.51E-05	
177	0.000852	9.86E-05	0.008222
0.000321	0.000385	5.76E-05	
178	0.000853	9.83E-05	0.008455
0.000324	0.000272	4.96E-05	
179	0.000853	8.57E-05	0.008030
0.000313	0.000299	4.77E-05	
180	0.000853	6.29E-05	0.006858
0.000275	0.000412	4.97E-05	
181	0.000852	3.96E-05	0.004962
0.000206	0.000542	5.41E-05	
182	0.000852	2.22E-05	0.002306
9.34E-05	0.000654	5.51E-05	
183	0.000851	2.86E-05	3.11E-05
3.33E-05	0.000759	5.82E-05	
184	0.000850	4.

203	0.000835	9.91E−05	0.005766
0.000223	0.000619	7.21E−05	
204	0.000836	7.21E−05	0.002659
0.000122	0.000745	7.92E−05	
205	0.000837	5.49E−05	5.52E−05
6.53E−05	0.000895	9.15E−05	
206	0.000839	4.13E−05	0.002804
0.000148	0.001016	0.000111	
207	0.000842	5.52E−05	0.004823
0.000244	0.000998	0.000110	
208	0.000845	8.40E−05	0.006074
0.000291	0.000980	9.80E−05	
209	0.000847	0.000122	0.006641
0.000312	0.000628	7.77E−05	
210	0.000850	0.000155	0.006596
0.000310	0.000404	5.72E−05	
211	0.000851	0.000178	0.006033
0.000291	0.000297	4.93E−05	
212	0.000853	0.000187	0.005051
0.000262	0.000319	5.04E−05	
213	0.000852	0.000184	0.003747
0.000221	0.000365	5.34E−05	
214	0.000851	0.000170	0.002213
0.000158	0.000395	5.63E−05	
215	0.000849	0.000152	0.000529
4.68E−05	0.000348	3.80E−05	
216	0.000849	0.000143	5.39E−05
4.05E−05	0.000345	4.67E−05	
217	0.000760	0.000115	4.58E−05
7.17E−05	0.000937	0.000108	
218	0.000762	9.27E−05	0.001314
6.67E−05	0.000782	9.15E−05	
219	0.000764	7.39E−05	0.002636
8.80E−05	0.000628	7.08E−05	
220	0.000765	6.49E−05	0.003736
0.000109	0.000429	5.48E−05	
221	0.000766	6.46E−05	0.004502
0.000122	0.000241	4.12E−05	
222	0.000767	6.33E−05	0.004820
0.000127	0.000155	4.11E−05	
223	0.000768	5.97E−05	0.004585
0.000126	0.000247	4.93E−05	
224	0.000768	5.31E−05	0.003727
0.000120	0.000372	6.01E−05	
225	0.000769	4.75E−05	0.002182
0.000108	0.000585	7.35E−05	
226	0.000769	4.33E−05	2.40E−05
9.60E−05	0.000585	7.88E−05	
227	0.000769	3.69E−05	0.001768
0.000129	0.000696	8.87E−05	
228	0.000770	2.99E−05	0.004000
0.000152	0.000734	0.000100	
229	0.000770	2.95E−05	0.005751
0.000156	0.000671	9.44E−05	
230	0.000771	3.27E−05	0.006980
0.000159	0.000518	7.99E−05	
231	0.000771	3.69E−05	0.007599
0.000158	0.000358	6.20E−05	
232	0.000771	3.87E−05	0.007829
0.000155	0.000287	4.88E−05	
233	0.000770	3.66E−05	0.007408
0.000149	0.000327	3.82E−05	
234	0.000770	3.17E−05	0.006279
0.000138	0.000431	3.41E−05	
235	0.000770	2.70E−05	0.004489
0.000123	0.000718	3.50E−05	
236	0.000769	2.51E−05	0.002040
9.19E−05	0.000621	3.74E−05	
237	0.000769	2.92E−05	2.46E−05
7.06E−05	0.000698	4.12E−05	
238	0.000769	3.30E−05	0.001962
0.000107	0.000805	5.45E−05	
239	0.000769	4.27E−05	0.004395
0.000135	0.000833	6.66E−05	
240	0.000770	5.54E−05	0.006271
0.000145	0.000756	6.76E−05	
241	0.000770	6.52E−05	0.007555
0.000152	0.000579	6.36E−05	
242	0.000771	7.05E−05	0.008142
0.000154	0.000596	5.88E−05	
243	0.000771	7.13E−05	0.008221
0.000154	0.000310	5.63E−05	
244	0.000772	6.67E−05	0.007669
0.000152	0.000352	6.11E−05	
245	0.000773	5.79E−05	0.006398
0.000146	0.000453	7.04E−05	
246	0.000773	4.63E−05	0.004507
0.000135	0.000557	7.88E−05	
247	0.000773	3.74E−05	0.002022
0.000106	0.000617	7.95E−05	
248	0.000773	3.26E−05	2.45E−05
6.92E−05	0.000685	7.94E−05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000773	2.70E−05	0.002192
9.37E−05	0.000787	9.27E−05	
250	0.000773	2.85E−05	0.004922
0.000127	0.000810	0.000100	
251	0.000773	3.93E−05	0.007049
0.000144	0.000733	9.14E−05	
252	0.000773	4.84E−05	0.008527
0.000157	0.000560	7.46E−05	
253	0.000773	5.35E−05	0.009253
0.000166	0.000384	5.35E−05	
254	0.000773	5.42E−05	0.009464
0.000171	0.000305	4.17E−05	
255	0.000773	5.10E−05	0.008850
0.000175	0.000369	4.50E−05	
256	0.000773	4.51E−05	0.007399
0.000174	0.000489	5.56E−05	
257	0.000773	4.71E−05	0.005221
0.000171	0.000618	6.79E−05	
258	0.000774	5.32E−05	0.002343
0.000146	0.000700	7.32E−05	
259	0.000773	5.62E−05	3.45E−05
0.000109	0.000833	8.51E−05	
260	0.000775	5.45E−05	0.002484
0.000113	0.000933	0.000104	
261	0.000776	5.03E−05	0.004360
0.000126	0.000923	0.000102	
262	0.000778	5.08E−05	0.005565
0.000135	0.000909	9.12E−05	
263	0.000779	5.82E−05	0.006141
0.000142	0.000612	7.39E−05	
264	0.000781	6.46E−05	0.006139
0.000144	0.000411	5.93E−05	
265	0.000783	6.79E−05	0.005639
0.000138	0.000302	5.36E−05	
266	0.000785	6.88E−05	0.004732
0.000124	0.000334	5.61E−05	
267	0.000787	7.69E−05	0.003514
0.000102	0.000379	5.95E−05	
268	0.000789	9.64E−05	0.002073
7.58E−05	0.000405	6.26E−05	
269	0.000790	0.000119	0.000486
4.47E−05	0.000334	4.12E−05	
270	0.000790	0.000124	3.73E−05
5.54E−05	0.000330	5.04E−05	.000000
271	0.000651	1.81E−05	.000000
0.000104	0.000896	1.08E−05	
272	0.001507	9.49E−05	.000000
0.000101	0.000599	7.22E−06	
273	0.000000	.000000	.000000
8.17E−05	0.000733	8.08E−06	
274	0.001769	5.59E−06	.000000
6.63E−05	0.000725	8.59E−06	
275	0.001013	4.23E−05	.000000
0.000142	0.000831	9.25E−06	
276	0.002079	2.05E−05	.000000
5.96E−05	0.000357	4.43E−06	
277	0.000602	8.12E−05	.000000
9.66E−05	0.000827	4.04E−06	
278	0.001412	7.93E−05	.000000
6.16E−05	0.000557	3.17E−06	
279	.000000	.000000	.000000
4.27E−05	0.000685	3.87E−06	
280	0.001664	5.26E−06	.000000
3.35E−05	0.000676	4.38E−06	
281	0.000936	2.10E−05	.000000
4.06E−05	0.000783	4.68E−06	
282	0.001949	9.40E−05	.000000
2.99E−05	0.000340	4.74E−06	
283	0.000511	6.73E−21	.000000
0.000103	0.000615	3.30E−06	
284	0.001203	1.47E−20	.000000
9.53E−05	0.000457	4.37E−06	
285	6.23E−07	2.11E−05	.000000
2.70E−05	0.000594	5.61E−06	
286	0.001433	0.000295	.000000
3.18E−22	0.000573	5.28E−06	
287	0.000768	0.000128	.000000
8.64E−22	0.000678	5.47E−06	
288	0.001611	0.000210	.000000
1.08E−21	0.000319	1.19E−05	

COMB DL-G2-3 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	−0.000831	−0.000108	−2.72E−07
−0.000126	−0.000325	−5.36E−06	
2	−0.000830	−0.000106	−0.003938
−0.000171	−0.000310	−4.47E−06	
3	−0.000829	−0.000107	−0.007651
−0.000219	−0.000271	−2.78E−06	
4	−0.000829	−0.000115	−0.010263
−0.000245	−0.000210	−2.31E−06	
5	−0.000828	−0.000118	−0.011479
−0.000242	−0.000166	−3.02E−06	
6	−0.000828	−0.000118	−0.011177
−0.000218	−0.000247	−5.43E−06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	−0.000829	−0.000113	−0.009467
−0.000176	−0.000469	−7.77E−06	
8	−0.000830	−0.000103	−0.006707
−0.000120	−0.000630	−9.81E−06	
9	−0.000831	−9.65E−05	−0.003363
−5.96E−05	−0.000688	−1.07E−05	
10	−0.000833	−9.43E−05	−6.36E−07
−4.54E−05	−0.000637	−8.00E−06	
11	−0.000835	−8.59E−05	−0.002291
−8.32E−05	−0.000560	−7.19E−06	
12	−0.000838	−8.29E−05	−0.005932
−0.000155	−0.000441	−5.69E−06	
13	−0.000841	−8.60E−05	−0.009480
−0.000219	−0.000341	−4.08E−06	
14	−0.000843	−9.30E−05	−0.012365
−0.000262	−0.000241	−3.04E−06	
15	−0.000844	−9.79E−05	−0.014028
−0.000278	−0.000192	−3.18E−06	
16	−0.000846	−9.65E−05	−0.014169
−0.000268	−0.000264	−4.14E−06	
17	−0.000846	−8.99E−05	−0.012751
−0.000239	−0.000448	−5.33E−06	
18	−0.000845	−7.97E−05	−0.010003
−0.000188	−0.000655	−7.52E−06	
19	−0.000845	−6.91E−05	−0.006438
−0.000121	−0.000763	−9.29E−06	
20	−0.000844	−6.97E−05	−0.002580
−5.01E−05	−0.000765	−9.44E−06	
21	−0.000843	−7.75E−05	−6.51E−07
−3.15E−05	−0.000703	−7.58E−06	
22	−0.000842	−8.20E−05	−0.002720
−6.90E−05	−0.000614	−6.98E−06	
23	−0.000840	−9.44E−05	−0.006877
−0.000144	−0.000478	−5.66E−06	
24	−0.000839	−0.000111	−0.010832
−0.000211	−0.000362	−4.15E−06	
25	−0.000837	−0.000123	−0.014015
−0.000261	−0.000249	−3.09E−06	
26	−0.000835	−0.000129	−0.015794
−0.000284	−0.000200	−3.35E−06	
27	−0.000834	−0.000131	−0.015854
−0.000284	−0.000300	−4.43E−06	
28	−0.000832	−0.000127	−0.014177
−0.000260	−0.000513	−5.81E−06	
29	−0.000831	−0.000115	−0.011051
−0.000210	−0.000733	−8.31E−06	
30	−0.000830	−9.78E−05	−0.007088
−0.000142	−0.000842	−1.04E−05	
31	−0.000828	−8.36E−05	−0.002840
−6.64E−05	−0.000842	−1.09E−05	
32	−0.000827	−7.78E−05	−6.48E−07
−2.95E−05	−0.000777	−9.48E−06	
33	−0.000826	−7.14E−05	−0.002668
−5.28E−05	−0.000684	−9.13E−06	
34	−0.000824	−7.87E−05	−0.006691
−0.000126	−0.000540	−7.94E−06	
35	−0.000823	−0.000100	−0.010458
−0.000194	−0.000419	−4.96E−06	
36	−0.000821	−0.000125	−0.013432
−0.000247	−0.000293	−5.30E−06	
37	−0.000820	−0.000144	−0.015014
−0.000277	−0.000227	−4.36E−06	
38	−0.000819	−0.000157	−0.014926
−0.000286	−0.000315	−4.59E−06	
39	−0.000819	−0.000161	−0.013193
−0.000269	−0.000509	−5.53E−06	
40	−0.000819	−0.000156	−0.010134
−0.000223	−0.000704	−7.13E−06	
41	−0.000820	−0.000142	−0.006374
−0.000157	−0.000784	−8.83E−06	
42	−0.000821	−0.000129	−0.002487
−8.53E−05	−0.000751	−8.72E−06	
43	−0.000821	−0.000119	−6.87E−07
−4.77E−05	−0.000663	−6.78E−06	
44	−0.000822	−8.96E−05	−0.004492
−7.61E−05	−0.000502	−6.78E−06	
45	−0.000823	−6.82E−05	−0.009177
−0.000149	−0.000340	−5.23E−06	
46	−0.000823	−6.15E−05	−0.013417
−0.000222	−0.000189	−3.46E−06	
47	−0.000823	−6.14E−05	−0.016637
−0.000283	−5.51E−05	−2.30E−06	
48	−0.000822	−6.22E−05	−0.018361
−0.000325	−4.69E−05	−1.70E−06	
49	−0.000822	−6.33E−05	−0.018315
−0.000348	−0.000250	−2.25E−06	
50	−0.000821	−6.30E−05	−0.016438
−0.000343	−0.000554	−3.54E−06	
51	−0.000821	−6.03E−05	−0.012871
−0.000307	−0.000855	−5.20E−06	
52	−0.000820	−5.74E−05	−0.007905
−0.000246	−0.001104	−6.68E−06	
53	−0.000820	−6.51E−05	−0.001902
−0.000178	−0.001255	−9.47E−06	
54	−0.000820	−7.08E−05	−2.97E−07
−0.000163	−0.001266	−9.81E−06	
55	−0.000777	−8.98E−05	−4.09E−07
−0.000125	−0.000305	−4.29E−06	
56	−0.000777	−8.14E−05	−0.003623
−0.000222	−0.000291	−3.31E−06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	−0.000777	−7.63E−05	−0.007011
−0.000317	−0.000253	−2.03E−06	
58	−0.000777	−7.42E−05	−0.009389
−0.000372	−0.000195	−2.06E−06	
59	−0.000777	−7.22E−05	−0.010507
−0.000380	−0.000156	−2.55E−06	
60	−0.000778	−6.93E−05	−0.010249
−0.000344	−0.000249	−3.34E−06	
61	−0.000778	−6.54E−05	−0.008709
−0.000275	−0.000447	−4.07E−06	
62	−0.000779	−6.10E−05	−0.006192
−0.000186	−0.000594	−4.59E−06	
63	−0.000780	−5.62E−05	−0.003113
−9.45E−05	−0.000647	−4.63E−06	
64	−0.000782	−5.27E−05	−9.26E−07
−5.30E−05	−0.000591	−4.10E−06	
65	−0.000782	−4.84E−05	−0.002120
−0.000117	−0.000515	−4.95E−06	
66	−0.000784	−4.53E−05	−0.005484
−0.000227	−0.000408	−3.75E−06	
67	−0.000785	−4.41E−05	−0.008737
−0.000326	−0.000321	−2.41E−06	
68	−0.000786	−4.34E−05	−0.011374
−0.000397	−0.000228	−1.76E−06	
69	−0.000786	−4.27E−05	−0.012896
−0.000428	−0.000180	−1.55E−06	
70	−0.000787	−4.12E−05	−0.013032
−0.000416	−0.000256	−1.80E−06	
71	−0.000787	−3.83E−05	−0.011746
−0.000363	−0.000421	−2.33E−06	
72	−0.000787	−3.42E−05	−0.009240
−0.000277	−0.000610	−3.03E−06	
73	−0.000786	−3.01E−05	−0.005970
−0.000175	−0.000713	−3.72E−06	
74	−0.000786	−2.95E−05	−0.002396
−7.16E−05	−0.000717	−3.82E−06	
75	−0.000786	−3.86E−05	−9.46E−07
−3.06E−05	−0.000655	−3.42E−06	
76	−0.000786	−4.71E−05	−0.002532
−9.34E−05	−0.000569	−4.42E−06	
77	−0.000785	−5.71E−05	−0.006392
−0.000207	−0.000446	−3.56E−06	
78	−0.000785	−6.61E−05	−0.010038
−0.000311	−0.000342	−2.41E−06	
79	−0.000784	−7.25E−05	−0.012960
−0.000392	−0.000236	−1.90E−06	
80	−0.000784	−7.58E−05	−0.014593
−0.000436	−0.000186	−1.73E−06	
81	−0.000784	−7.78E−05	−0.014650
−0.000436	−0.000278	−1.94E−06	
82	−0.000784	−7.67E−05	−0.013114
−0.000391	−0.000472	−2.55E−06	
83	−0.000783	−7.16E−05	−0.010246
−0.000310	−0.000676	−3.59E−06	
84	−0.000783	−6.23E−05	−0.006592
−0.000205	−0.000782	−4.68E−06	
85	−0.000783	−5.02E−05	−0.002645
−9.12E−05	−0.000788	−5.46E−06	
86	−0.000783	−3.94E−05	−9.44E−07
−2.79E−05	−0.000725	−5.09E−06	
87	−0.000782	−3.12E−05	−0.002479
−7.24E−05	−0.000636	−6.16E−06	
88	−0.000782	−3.89E−05	−0.006206
−0.000180	−0.000507	−5.54E−06	
89	−0.000781	−5.46E−05	−0.009670
−0.000284	−0.000398	−4.66E−06	
90	−0.000780	−7.15E−05	−0.012390
−0.000373	−0.000280	−3.98E−06	
91	−0.000780	−8.66E−05	−0.013834
−0.000427	−0.000212	−3.27E−06	
92	−0.000780	−9.93E−05	−0.013752
−0.000439	−0.000281	−2.61E−06	
93	−0.000780	−0.000107	−0.012165
−0.000405	−0.000455	−2.08E−06	
94	−0.000780	−0.000109	−0.009366
−0.000331	−0.000637	−2.05E−06	
95	−0.000780	−0.000104	−0.005911
−0.000229	−0.000819	−2.61E−06	
96	−0.000781	−9.18E−05	−0.002311
−0.000118	−0.000698	−3.52E−06	
97	−0.000781	−7.92E−05	−9.64E−07
−5.67E−05	−0.000616	−2.74E−06	
98	−0.000782	−5.52E−05	−0.004162
−0.000102	−0.000465	−3.99E−06	
99	−0.000783	−3.43E−05	−0.008477
−0.000212	−0.000321	−2.94E−06	
100	−0.000784	−2.54E−05	−0.012348
−0.000322	−0.000185	−2.21E−06	
101	−0.000784	−2.40E−05	−0.015270
−0.000418	−6.03E−05	−2.05E−06	
102	−0.000785	−2.42E−05	−0.016820
−0.000488	−4.70E−05	−1.94E−06	
103	−0.000785	−2.52E−05	−0.016754
−0.000521	−0.000212	−1.80E−06	
104	−0.000786	−2.84E−05	−0.015020
−0.000508	−0.000481	−1.68E−06	
105	−0.000786	−3.35E−05	−0.011764
−0.000448	−0.000758	−2.10E−06	
106	−0.000786	−3.97E−05	−0.007241
−0.000343	−0.000995	−3.26E−06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	−0.000785	−4.90E−05	−0.001751
−0.000205	−0.001154	−5.95E−06	
108	−0.000785	−5.23E−05	−4.44E−07
−0.000174	−0.001168	−5.40E−06	
109	−0.000783	−7.58E−05	−7.19E−08
−0.000206	−0.000283	−9.83E−06	
110	−0.000684	−6.64E−05	−0.002723
−0.000296	−0.000271	−9.38E−06	
111	−0.000685	−7.31E−05	−0.005349
−0.000381	−0.000236	−7.87E−06	
112	−0.000685	−9.70E−05	−0.007250
−0.000426	−0.000357	−7.53E−06	
113	−0.000686	−0.000113	−0.008183
−0.000427	−0.000120	−3.27E−06	
114	−0.000686	−0.000117	−0.008038
−0.000390	−0.000194	−1.66E−06	
115	−0.000687	−0.000109	−0.006877
−0.000320	−0.000357	−5.43E−06	
116	−0.000687	−9.03E−05	−0.004934
−0.000228	−0.000474	−2.07E−06	
117	−0.000687	−6.88E−05	−0.002524
−0.000135	−0.000521	−3.50E−06	
118	−0.000686	−5.36E−05	−1.96E−07
−0.000106	−0.000505	−5.09E−06	
119	−0.000685	−5.94E−05	−0.001729
−0.000161	−0.000467	−6.18E−06	
120	−0.000684	−8.04E−05	−0.004410
−0.000272	−0.000388	−7.01E−06	
121	−0.000682	−0.000105	−0.007012
−0.000371	−0.000308	−6.57E−06	
122	−0.000680	−0.000126	−0.009137
−0.000439	−0.000220	−6.26E−06	
123	−0.000678	−0.000139	−0.010379
−0.000468	−0.000150	−3.76E−06	
124	−0.000677	−0.000141	−0.010510
−0.000457	−0.000194	−2.31E−06	
125	−0.000676	−0.000130	−0.009497
−0.000408	−0.000341	−1.76E−06	
126	−0.000676	−0.000109	−0.007499
−0.000327	−0.000496	−1.75E−06	
127	−0.000676	−7.99E−05	−0.004881
−0.000223	−0.000579	−2.69E−06	
128	−0.000676	−5.29E−05	−0.001995
−0.000119	−0.000592	−4.12E−06	
129	−0.000676	−4.31E−05	−2.06E−07
−9.14E−05	−0.000565	−5.23E−06	
130	−0.000677	−4.69E−05	−0.002129
−0.000139	−0.000517	−6.25E−06	
131	−0.000678	−7.48E−05	−0.005293
−0.000252	−0.000423	−6.92E−06	
132	−0.000679	−0.000103	−0.008268
−0.000356	−0.000328	−6.35E−06	
133	−0.000681	−0.000125	−0.010658
−0.000434	−0.000227	−5.18E−06	
134	−0.000682	−0.000137	−0.011998
−0.000475	−0.000156	−3.70E−06	
135	−0.000684	−0.000137	−0.012051
−0.000474	−0.000207	−2.61E−06	
136	−0.000685	−0.000124	−0.010803
−0.000433	−0.000383	−2.33E−06	
137	−0.000687	−0.000102	−0.008463
−0.000355	−0.000553	−2.53E−06	
138	−0.000688	−7.31E−05	−0.005478
−0.000250	−0.000642	−3.48E−06	
139	−0.000689	−4.81E−05	−0.002233
−0.000137	−0.000658	−4.91E−06	
140	−0.000689	−4.77E−05	−2.02E−07
−8.99E−05	−0.000630	−6.06E−06	
141	−0.000690	−5.78E−05	−0.002073
−0.000122	−0.000580	−7.09E−06	
142	−0.000691	−8.48E−05	−0.005106
−0.000228	−0.000481	−7.68E−06	
143	−0.000691	−0.000114	−0.007907
−0.000333	−0.000382	−7.12E−06	
144	−0.000692	−0.000137	−0.010101
−0.000417	−0.000269	−5.78E−06	
145	−0.000692	−0.000151	−0.011258
−0.000467	−0.000180	−4.12E−06	
146	−0.000693	−0.000151	−0.011178
−0.000478	−0.000201	−3.04E−06	
147	−0.000692	−0.000138	−0.009882
−0.000446	−0.000360	−2.54E−06	
148	−0.000692	−0.000116	−0.007612
−0.000375	−0.000510	−2.16E−06	
149	−0.000691	−8.95E−05	−0.004821
−0.000274	−0.000577	−2.58E−06	
150	−0.000690	−8.21E−05	−0.001912
−0.000161	−0.000568	−3.52E−06	
151	−0.000690	−8.75E−05	−2.26E−07
−0.000109	−0.000523	−4.48E−06	
152	−0.000690	−0.000101	−0.003499
−0.000152	−0.000427	−5.79E−06	
153	−0.000690	−0.000118	−0.007043
−0.000262	−0.000307	−5.96E−06	
154	−0.000691	−0.000133	−0.010208
−0.000373	−0.000182	−5.30E−06	
155	−0.000693	−0.000139	−0.012584
−0.000466	−6.36E−05	−3.95E−06	
156	−0.000694	−0.000134	−0.013818
−0.000529	−2.29E−05	−2.95E−06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	−0.000695	−0.000116	−0.013711
−0.000559	−0.000142	−2.71E−06	
158	−0.000696	−9.23E−05	−0.012229
−0.000552	−0.000386	−2.95E−06	
159	−0.000697	−6.18E−05	−0.009503
−0.000502	−0.000615	−3.31E−06	
160	−0.000697	−3.59E−05	−0.005781
−0.000404	−0.000798	−3.70E−06	
161	−0.000697	−4.43E−05	−0.001380
−0.000261	−0.000906	−3.95E−06	
162	−0.000687	−4.75E−05	−7.53E−08
−0.000228	−0.000915	−3.97E−06	
163	−0.000805	−7.90E−05	−0.000127
−0.000155	−0.000335	−5.77E−05	
164	−0.000804	−8.48E−05	−0.003893
−0.000209	−0.000398	−5.01E−05	
165	−0.000803	−9.07E−05	−0.007530
−0.000316	−0.000351	−4.96E−05	
166	−0.000803	−9.39E−05	−0.010093
−0.000379	−0.000300	−4.77E−05	
167	−0.000803	−9.43E−05	−0.011292
−0.000392	−0.000272	−4.86E−05	
168	−0.000803	−9.22E−05	−0.010997
−0.000360	−0.000360	−5.81E−05	
169	−0.000804	−8.71E−05	−0.009319
−0.000296	−0.000570	−7.43E−05	
170	−0.000804	−7.77E−05	−0.006610
−0.000220	−0.000724	−8.71E−05	
171	−0.000806	−6.84E−05	−0.003324
−0.000137	−0.000777	−9.16E−05	
172	−0.000807	−6.09E−05	−7.77E−05
−7.78E−05	−0.000702	−9.08E−05	
173	−0.000809	−5.85E−05	−0.002267
−0.000132	−0.000588	−7.15E−05	
174	−0.000811	−5.90E−05	−0.005847
−0.000232	−0.000511	−6.91E−05	
175	−0.000813	−6.07E−05	−0.009320
−0.000322	−0.000419	−5.96E−05	
176	−0.000815	−6.25E−05	−0.012143
−0.000392	−0.000328	−5.15E−05	
177	−0.000816	−6.48E−05	−0.013776
−0.000426	−0.000291	−4.84E−05	
178	−0.000817	−6.34E−05	−0.013914
−0.000418	−0.000373	−5.47E−05	
179	−0.000817	−5.74E−05	−0.012522
−0.000372	−0.000545	−6.66E−05	
180	−0.000816	−4.82E−05	−0.009833
−0.000294	−0.000744	−7.59E−05	
181	−0.000815	−4.13E−05	−0.006344
−0.000204	−0.000846	−7.90E−05	
182	−0.000814	−3.92E−05	−0.002549
−0.000105	−0.000893	−6.83E−05	
183	−0.000813	−4.62E−05	−7.41E−05
−6.26E−05	−0.000729	−5.60E−05	
184	−0.000812	−5.72E−05	−0.002687
−0.000117	−0.000639	−5.42E−05	
185	−0.000811	−7.39E−05	−0.006774
−0.000218	−0.000547	−5.52E−05	
186	−0.000811	−8.79E−05	−0.010646
−0.000314	−0.000440	−5.21E−05	
187	−0.000810	−9.67E−05	−0.013762
−0.000391	−0.000335	−5.03E−05	
188	−0.000809	−0.000101	−0.015511
−0.000431	−0.000298	−5.09E−05	

	R1	R2	R3	
207	-0.000802	-4.06E-05	-0.008984	
-0.000242	-0.000416	-5.81E-05		
208	-0.000803	-3.11E-05	-0.013113	
-0.000338	-0.000674	-4.07E-05		
209	-0.000803	-3.19E-05	-0.016247	
-0.000426	-0.000151	-4.13E-05		
210	-0.000803	-3.56E-05	-0.017925	
-0.000489	-0.000151	-4.23E-05		
211	-0.000803	-3.88E-05	-0.017872	
-0.000513	-0.000341	-5.71E-05		
212	-0.000674	-4.24E-05	-0.016031	
-0.000493	-0.000625	-8.23E-05		
213	-0.000804	-4.49E-05	-0.012560	
-0.000431	-0.000915	-0.000109		
214	-0.000804	-4.61E-05	-0.007734	
-0.000325	-0.001156	-0.000135		
215	-0.000804	-4.79E-05	-0.001885	
-0.000186	-0.001260	-0.000101		
216	-0.000804	-4.82E-05	-0.000104	
-0.000158	-0.001230	-0.000122		
217	-0.000730	-8.13E-05	-0.000162	
-5.22E-05	-0.000318	-4.80E-05		
218	-0.000730	-7.11E-05	-0.003293	
-0.000258	-0.000411	-4.40E-05		
219	-0.000733	-6.43E-05	-0.006305	
-0.000419	-0.000363	-4.30E-05		
220	-0.000731	-6.14E-05	-0.008458	
-0.000487	-0.000315	-4.23E-05		
221	-0.000731	-6.87E-05	-0.009486	
-0.000493	-0.000282	-4.43E-05		
222	-0.000732	-7.23E-05	-0.009278	
-0.000452	-0.000373	-5.69E-05		
223	-0.000732	-6.93E-05	-0.007904	
-0.000369	-0.000549	-7.48E-05		
224	-0.000733	-5.97E-05	-0.005651	
-0.000249	-0.000675	-8.78E-05		
225	-0.000733	-4.97E-05	-0.002888	
-0.000103	-0.000714	-9.35E-05		
226	-0.000734	-4.76E-05	-0.000125	
-1.53E-05	-0.000652	-8.26E-05		
227	-0.000734	-4.63E-05	-0.001989	
-0.000114	-0.000551	-7.56E-05		
228	-0.000734	-5.14E-05	-0.005033	
-0.000277	-0.000513	-7.79E-05		
229	-0.000735	-6.16E-05	-0.007980	
-0.000409	-0.000435	-7.10E-05		
230	-0.000733	-7.17E-05	-0.010383	
-0.000499	-0.000351	-6.32E-05		
231	-0.000733	-7.80E-05	-0.011777	
-0.000535	-0.000304	-5.72E-05		
232	-0.000732	-7.81E-05	-0.011910	
-0.000525	-0.000371	-5.56E-05		
233	-0.000732	-7.15E-05	-0.010747	
-0.000469	-0.000525	-5.79E-05		
234	-0.000732	-5.88E-05	-0.008473	
-0.000367	-0.000694	-6.11E-05		
235	-0.000732	-4.47E-05	-0.005508	
-0.000226	-0.000778	-6.09E-05		
236	-0.000732	-3.45E-05	-0.002256	
-6.77E-05	-0.000762	-5.07E-05		
237	-0.000732	-3.62E-05	-0.000119	
-8.85E-06	-0.000665	-3.89E-05		
238	-0.000732	-4.08E-05	-0.002390	
-9.08E-05	-0.000602	-3.64E-05		
239	-0.000732	-5.22E-05	-0.005924	
-0.000256	-0.000550	-3.63E-05		
240	-0.000733	-6.99E-05	-0.009255	
-0.000398	-0.000456	-3.59E-05		
241	-0.000733	-8.30E-05	-0.011933	
-0.000498	-0.000359	-3.98E-05		
242	-0.000733	-8.95E-05	-0.013434	
-0.000544	-0.000310	-4.96E-05		
243	-0.000734	-9.02E-05	-0.013489	
-0.000544	-0.000386	-6.19E-05		
244	-0.000734	-8.35E-05	-0.012083	
-0.000497	-0.000567	-8.12E-05		
245	-0.000734	-7.06E-05	-0.009455	
-0.000397	-0.000753	-9.92E-05		
246	-0.000735	-5.46E-05	-0.006117	
-0.000256	-0.000843	-0.000108		
247	-0.000735	-4.47E-05	-0.002499	
-8.98E-05	-0.000831	-9.95E-05		
248	-0.000735	-3.89E-05	-0.000119	
-8.80E-06	-0.000735	-8.50E-05		
249	-0.000735	-3.64E-05	-0.002336	
-7.07E-05	-0.000670	-8.47E-05		
250	-0.000736	-4.95E-05	-0.005738	
-0.000232	-0.000610	-8.13E-05		
251	-0.000736	-7.15E-05	-0.008890	
-0.000375	-0.000511	-7.01E-05		
252	-0.000736	-9.03E-05	-0.011370	
-0.000481	-0.000401	-5.86E-05		
253	-0.000736	-0.000102	-0.012686	
-0.000536	-0.000334	-4.82E-05		
254	-0.000735	-0.000106	-0.012605	
-0.000546	-0.000381	-4.80E-05		
255	-0.000735	-0.000102	-0.011150	
-0.000508	-0.000543	-6.14E-05		
256	-0.000735	-9.25E-05	-0.008593	
-0.000415	-0.000709	-7.62E-05		

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page

< MOVING LOAD >
224

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000735	-8.71E-05	-0.005451
-0.000279	-0.000777	-8.29E-05	
258	-0.000735	-8.15E-05	-0.002174
-0.000114	-0.000747	-7.42E-05	
259	-0.000735	-7.73E-05	-0.000146
-1.66E-05	-0.000640	-6.96E-05	
260	-0.000735	-7.19E-05	-0.003909
-0.000108	-0.000568	-6.26E-05	
261	-0.000736	-6.72E-05	-0.007858
-0.000270	-0.000436	-5.17E-05	
262	-0.000737	-6.53E-05	-0.011393
-0.000414	-0.000309	-4.29E-05	
263	-0.000738	-6.52E-05	-0.014062
-0.000528	-0.000197	-3.75E-05	
264	-0.000739	-6.09E-05	-0.015467
-0.000602	-0.000176	-4.12E-05	
265	-0.000740	-5.04E-05	-0.015381
-0.000634	-0.000314	-5.67E-05	
266	-0.000739	-3.59E-05	-0.013764
-0.000621	-0.000562	-8.10E-05	
267	-0.000741	-2.97E-05	-0.010757
-0.000555	-0.000812	-0.000105	
268	-0.000741	-3.49E-05	-0.006624
-0.000415	-0.001015	-0.000127	
269	-0.000740	-4.35E-05	-0.001660
-0.000153	-0.001099	-9.12E-05	
270	-0.000740	-4.71E-05	-0.000147
-5.60E-05	-0.001063	-0.000111	
271	-0.001132	-1.04E-05	.000000
-0.000120	-0.000324	-5.36E-06	
272	-0.001527	-8.38E-05	.000000
-6.42E-05	-0.000636	-8.00E-06	
273	.000000	.000000	.000000
-4.58E-05	-0.000702	-7.58E-06	
274	-0.001563	-6.33E-06	.000000
-3.34E-05	-0.000777	-9.48E-06	
275	-0.001212	-3.54E-05	.000000
-8.83E-05	-0.000658	-6.78E-06	
276	-0.001115	-1.10E-05	.000000
-0.000139	-0.001269	-9.81E-06	
277	-0.001041	-4.69E-05	.000000
-9.25E-05	-0.000300	-4.29E-06	
278	-0.001425	-7.86E-05	.000000
-6.06E-05	-0.000589	-4.10E-06	
279	.000000	.000000	.000000
-4.00E-05	-0.000554	-3.42E-06	
280	-0.001471	-5.95E-06	.000000
-3.24E-05	-0.000725	-5.09E-06	
281	-0.001123	-2.52E-05	.000000
-3.17E-05	-0.000618	-2.74E-06	
282	-0.001065	-5.13E-05	.000000
-6.41E-05	-0.001178	-6.40E-06	
283	-0.000779	-5.37E-05	.000000
-0.000165	-0.000264	-9.83E-06	
284	-0.001238	-0.000101	.000000
-0.000187	-0.000465	-5.09E-06	
285	-3.91E-06	-0.000132	.000000
-0.000102	-0.000561	-5.23E-06	
286	-0.001231	-0.000373	.000000
-3.73E-05	-0.000636	-6.06E-06	
287	-0.000921	-0.000285	.000000
-5.93E-05	-0.000533	-4.48E-06	
288	-0.000943	-0.000220	.000000
-7.38E-05	-0.000937	-3.97E-06	

COMB DL-G2-4 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000883	0.000121	6.03E-08
9.25E-05	0.000863	9.36E-06	
2	0.000882	0.000139	0.001524
0.000162	0.000801	7.82E-06	
3	0.000881	0.000161	0.003076
0.000250	0.000633	4.80E-06	
4	0.000881	0.000173	0.004368
0.000313	0.000401	2.82E-06	
5	0.000881	0.000174	0.005275
0.000346	0.000157	2.09E-06	
6	0.000882	0.000163	0.005664
0.000346	7.25E-06	2.73E-06	
7	0.000883	0.000141	0.005410
0.000311	0.000123	4.42E-06	
8	0.000884	0.000109	0.004422
0.000241	0.000279	6.31E-06	
9	0.000886	7.46E-05	0.002616
0.000148	0.000444	7.80E-06	
10	0.000887	5.12E-05	9.17E-08
8.60E-05	0.000602	8.29E-06	
11	0.000888	5.03E-05	0.002126
0.000110	0.000689	9.39E-06	
12	0.000889	6.67E-05	0.004732
0.000206	0.000727	8.68E-06	
13	0.000890	8.79E-05	0.006758
0.000296	0.000656	6.83E-06	
14	0.000891	0.000108	0.008164
0.000361	0.000479	5.04E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page

< MOVING LOAD >
225

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
15	0.000892	0.000121	0.008869
0.000396	0.000283	4.30E-06	
16	0.000893	0.000123	0.009121
0.000402	0.000172	4.03E-06	
17	0.000893	0.000112	0.008646
0.000374	0.000221	4.52E-06	
18	0.000893	8.89E-05	0.007352
0.000311	0.000249	6.09E-06	
19	0.000893	5.74E-05	0.005281
0.000217	0.000494	7.79E-06	
20	0.000892	3.23E-05	0.002430
0.000110	0.000647	8.85E-06	
21	0.000892	3.48E-05	1.25E-07
6.79E-05	0.000743	9.06E-06	
22	0.000892	5.09E-05	0.002341
0.000107	0.000813	1.02E-05	
23	0.000891	8.74E-05	0.005174
0.000211	0.000825	9.45E-06	
24	0.000890	0.000124	0.007341
0.000305	0.000730	7.51E-06	
25	0.000889	0.000152	0.008811
0.000372	0.000522	5.51E-06	
26	0.000888	0.000168	0.009476
0.000406	0.000302	4.64E-06	
27	0.000888	0.000170	0.009567
0.000407	0.000199	4.20E-06	
28	0.000887	0.000157	0.008945
0.000374	0.000256	4.55E-06	
29	0.000886	0.000130	0.007490
0.000307	0.000380	6.12E-06	
30	0.000886	9.43E-05	0.005305
0.000213	0.000510	7.81E-06	
31	0.000885	5.51E-05	0.002412
0.000106	0.000647	8.92E-06	
32	0.000884	3.59E-05	1.39E-07
6.65E-05	0.000731	9.38E-06	
33	0.000884	3.36E-05	0.002604
0.000111	0.000789	1.06E-05	
34	0.000883	6.34E-05	0.005779
0.000221	0.000786	9.79E-06	
35	0.000883	0.000100	0.008234
0.000317	0.000682	7.81E-06	
36	0.000882	0.000129	0.009928
0.000384	0.000472	6.01E-06	
37	0.000881	0.000145	0.010750
0.000415	0.000262	4.67E-06	
38	0.000881	0.000148	0.010997
0.000412	0.000195	4.23E-06	
39	0.000881	0.000139	0.010308
0.000377	0.000281	4.60E-06	
40	0.000881	0.000119	0.008654
0.000310	0.000426	6.01E-06	
41	0.000881	9.14E-05	0.006144
0.000219	0.000585	7.86E-06	
42	0.000881	6.51E-05	0.002800
0.000121	0.000748	9.29E-06	
43	0.000882	5.46E-05	8.87E-08
9.83E-05	0.000848	9.93E-06	
44	0.000883	5.24E-05	0.002958
0.000173	0.000931	1.28E-05	
45	0.000885	7.91E-05	0.005141
0.000280	0.000898	1.20E-05	
46	0.000886	0.000114	0.006525
0.000365	0.000748	1.01E-05	
47	0.000888	0.000148	0.007170
0.000416	0.000500	8.43E-06	
48	0.000889	0.000173	0.007144
0.000434	0.000262	6.95E-06	
49	0.000889	0.000186	0.006547
0.000419	0.000199	5.86E-06	
50	0.000889	0.000188	0.005487
0.000373	0.000248	5.42E-06	
51	0.000889	0.000179	0.004072
0.000298	0.000309	5.74E-06	
52	0.000889	0.000162	0.002403
0.000196	0.000352	6.36E-06	
53	0.000889	0.000145	0.000566
8.41E-05	0.000375	7.37E-06	
54	0.000889	0.000143	5.41E-08
6.64E-05	0.000376	7.47E-06	
55	0.000887	0.000121	4.01E-08
5.29E-05	0.000891	4.00E-06	
56	0.000887	0.000116	0.001484
0.000122	0.000818	3.15E-06	
57	0.000887	0.000115	0.002999
0.000220	0.000634	1.96E-06	
58	0.000887	0.000112	0.004262
0.000292	0.000395	1.32E-06	
59	0.000887	0.000106	0.005149
0.000329	0.000155	9.37E-07	
60	0.000888	9.59E-05	0.005531
0.000329	1.76E-05	1.13E-06	
61	0.000889	8.22E-05	0.005290
0.000295	0.000119	1.66E-06	
62	0.000891	6.90E-05	0.004338
0.000230	0.000271	2.73E-06	
63	0.000892	5.89E-05	0.002587
0.000138	0.000436	4.00E-06	
64	0.000893	5.29E-05	6.59E-08
6.44E-05	0.000607	3.09E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page

< MOVING LOAD >
226

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	0.000894	4.45E-05	0.002105
0.000107	0.000702	3.63E-06	
66	0.000896	3.42E-05	0.004649
0.000206	0.000739	3.61E-06	
67	0.000897	3.17E-05	0.006620
0.000293	0.000662	3.03E-06	
68	0.000897	3.40E-05	0.007991
0.000357	0.000480	2.48E-06	
69	0.000898	3.65E-05	0.008676
0.000390	0.000285	1.97E-06	
70	0.000898	3.66E-05	0.008932
0.000392	0.000174	1.70E-06	
71	0.000898	3.22E-05	0.008468
0.000360	0.000217	1.74E-06	
72	0.000898	2.87E-05	0.007208
0.000295	0.000342	2.36E-06	
73	0.000897	2.02E-05	0.005195
0.000205	0.000484	3.59E-06	
74	0.000897	2.24E-05	0.002407
9.58E-05	0.000640	4.64E-06	
75	0.000897	3.37E-05	9.93E-08
3.68E-05	0.000747	3.87E-06	
76	0.000896	4.26E-05	0.002320
9.60E-05	0.000827	4.43E-06	
77	0.000895	5.56E-05	0.005091
0.000206	0.000840	4.39E-06	
78	0.000895	7.19E-05	0.007201
0.000298	0.000841	3.71E-06	
79	0.000894	8.61E-05	0.008635
0.000366	0.000530	2.99E-06	
80	0.000894	9.50E-05	0.009285
0.000400	0.000311	2.31E-06	
81	0.000894	9.69E-05	0.009374
0.000401	0.000200	1.76E-06	
82	0.000894	9.15E-05	0.008766
0.000368	0.000252	1.65E-06	
83	0.000893	7.93E-05	0.007347
0.000301	0.000372	2.35E-06	
84	0.000893	6.29E-05	0.005219
0.000208	0.000500	3.63E-06	
85	0.000893	4.71E-05	0.002389
9.66E-05	0.000640	4.82E-06	
86	0.000892	3.49E-05	1.15E-07
3.34E-05	0.000736	4.35E-06	
87	0.000892	2.26E-05	0.002578
9.46E-05	0.000804	4.93E-06	
88	0.000891	2.31E-05	0.005682
0.000207	0.000805	5.07E-06	
89	0.000890	3.78E-05	0.008074
0.000301	0.000698	4.63E-06	
90	0.000889	5.43E-05	0.009726
0.000371	0.000487	3.91E-06	
91	0.000889	6.83E-05	0.010524
0.000407	0.000279	2.92E-06	
92	0.000888	7.76E-05	0.010772
0.000409	0.000195	2.60E-06	
93	0.000888	8.10E-05	0.010097
0.000376	0.000276	1.32E-06	
94	0.000888	7.87E-05	0.008481
0.000312	0.000418	1.34E-06	
95	0.000888	7.26E-05	0.006036
0.000224	0.000573	3.34E-06	
96	0.000889	6.66E-05	0.002767
0.000120	0.000738	5.32E-06	
97	0.000890	6.21E-05	5.50E-08
8.05E-05	0.000850	4.56E-06	
98	0.000891	4.80E-05	0.002923
0.000156	0.000947	5.53E-06	
99	0.000893	3.82E-05	0.005046
0.000264	0.000916	6.10E-06	
100	0.000895	4.17E-05	0.006387
0.000346	0.000766	6.28E-06	
101	0.000897	5.92E-05	0.007013
0.000399	0.000519	6.05E-06	
102	0.000899	7.87E-05	0.006987
0.000423	0.000228	5.35E-06	
103	0.000901	9.61E-05	0.006404
0.000414	0.000192	4.38E-06	
104	0.000902	0.000110	0.005368
0.000369	0.000244	3.31E-06	
105	0.000903	0.000120	0.003984
0.000290	0.000303	2.49E-06	
106	0.000903	0.000125	0.002352
0.000183	0.000345	2.63E-06	
107	0.000902	0.000127	0.000555
6.92E-05	0.000368	4.43E-06	
108	0.000901	0.000128	3.80E-08
6.31E-05	0.000369	4.73E-06	
109	0.000861	0.000107	5.82E-08
5.14E-05	0.000575	7.27E-06	
110	0.000862	9.34E-05	0.001452
9.09E-05	0.000756	6.90E-06	
111	0.000863	9.69E-05	0.002934
0.000146	0.000588	5.70E-06	
112	0.000864	0.000114	0.004171
0.000190	0.000362	3.99E-06	
113	0.000865	0.000125	0.005041
0.000214	0.000128	2.34E-06	
114	0.000866	0.000125	0.005417
0.000217	2.21E-05	2.16E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page

< MOVING LOAD >
227

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000867	0.000114	0.005179
0.000193	0.000118	3.71E-06	
116	0.000868	9.36E-05	0.004236
0.000148	0.000269	5.45E-06	
117	0.000869	6.67E-05	0.002509
8.69E-05	0.000429	6.61E-06	
118	0.000869	4.37E-05	8.83E-08
4.59E-05	0.000582	6.89E-06	
119	0.000870	4.77E-05	0.002039
6.60E-05	0.000663	6.82E-06	
120	0.000871	5.70E-05	0.004539
0.000134	0.000696	6.40E-06	
121	0.000871	7.36E-05	0.006485
0.000195	0.000624	5.67E-06	
122	0.000871	8.89E-05	0.007836
0.000239	0.000451	5.00E-06	
123	0.000871	0.000100	0.008514
0.000261	0.000259	4.20E-06	
124	0.000871	0.000103	0.008761
0.000265	0.000170	4.07E-06	
125	0.000871	9.60E-05	0.008306
0.000246	0.000215	4.97E-06	
126	0.000870	7.76E-05	0.007065
0.000202	0.000339	6.18E-06	
127	0.000869	5.35E-05	0.005077
0.000137	0.000480	7.49E-06	
128	0.000869	2.64E-05	0.002337
6.28E-05	0.000629	8.19E-06	
129	0.000868	2.62E-05	1.21E-07
3.46E-05	0.000723	8.19E-06	
130	0.000868	4.22E-05	0.002252
6.01E-05	0.000789	7.91E-06	
131	0.000869	7.59E-05	0.004976
0.000136	0.000800	7.12E-06	
132	0.000869	0.000105	0.007060
0.000201	0.000707	5.99E-06	
133	0.000870	0.000126	0.008473
0.000248	0.000505	5.10E-06	
134	0.000871	0.000137	0.009112
0.000269	0.000292	4.38E-06	
135	0.000872	0.000137	0.009199
0.000270	0.000194	4.47E-06	
136	0.000873	0.000126	0.008601
0.000249	0.000249	5.35E-06	
137	0.000874	0.000105	0.007202
0.000203	0.000369	6.54E-06	
138	0.000874	7.52E-05	0.005101
0.000137	0.000496	7.66E-06	
139	0.000875	4.17E-05	0.002319
5.98E-05	0.000630	8.17E-06	
140	0.000875	2.74E-05	1.36E-07
3.35E-05	0.000713	8.10E-06	
141	0.000875	3.47E-05	0.002505
6.34E-05	0.000770	7.80E-06	
142	0.000874	6.34E-05	0.005555
0.000141	0.000769	6.95E-06	
143	0.000874	9.05E-05	0.007915
0.000208	0.000670	5.88E-06	
144	0.000873	0.000110	0.009541
0.000256	0.000469	4.86E-06	
145	0.000872	0.000120	0.010333
0.000277	0.000268	4.21E-06	
146	0.000872	0.000118	0.010566
0.000275	0.000187	4.33E-06	
147	0.000872	0.000107	0.009902
0.000253	0.000274	5.35E-06	
148	0.000872	9.08E-05	0.008311
0.000208	0.000415	6.36E-06	
149	0.000872	7.68E-05	0.005899
0.000144	0.000569	7.69E-06	
150	0.000873	5.80E-05	0.002687
7.49E-05	0.000728	8.33E-06	
151	0.000873	5.64E-05	8.76E-08
5.77E-05	0.000827	8.40E-06	
152	0.000874	6.28E-05	0.002839
0.000109	0.000910	6.28E-06	
153	0.000876	8.90E-05	0.004932
0.000182	0.000883	7.68E-06	
154	0.000877	0.000114	0.006257
0.000242	0.000744	7.07E-06	
155	0.000880	0.000133	0.006872
0.000281	0.000508	6.33E-06	
156	0.000910	0.000142	0.006844
0.000294	0.000285	5.98E-06	
157	0.000884	0.000141	0.006269
0.000281	0.000181	6.18E-06	
158	0.000886	0.000133	0.005252
0.000249	0.000241	7.35E-06	
159	0.000888	0.000118	0.003895
0.000195	0.000299	8.95E-06	
160	0.000889	0.000104	0.002296
0.000123	0.000340	1.01E-05	
161	0.000890	0.000115	0.000541
4.96E-05	0.000362	1.05E-05	
162	0.000890	0.000119	5.42E-08
4.73E-05	0.000364	1.05E-05	
163	0.000887	0.000113	5.90E-05
5.22E-05	0.000998	0.000142	
164	0.000885	0.000129	0.001495
0.000142	0.000894	0.000108	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page

< MOVING LOAD >
228

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000884	0.000145	0.003031
0.000188	0.000884	9.47E-05	
166	0.000884	0.000153	0.004311
0.000373	0.000490	7.47E-05	
167	0.000884	0.000151	0.005209
0.000415	0.000249	5.69E-05	
168	0.000885	0.000138	0.005596
0.000417	9.65E-05	5.02E-05	
169	0.000886	0.000118	0.005350
0.000375	0.000199	5.30E-05	
170	0.000887	9.05E-05	0.004380
0.000296	0.000349	5.93E-05	
171	0.000888	6.42E-05	0.002599
0.000169	0.000511	7.04E-05	
172	0.000890	4.56E-05	3.15E-05
5.03E-05	0.000646	7.57E-05	
173	0.000891	4.36E-05	0.002112
0.000106	0.000768	8.41E-05	
174	0.000892	5.12E-05	0.004692
0.000242	0.000817	9.36E-05	
175	0.000893	6.33E-05	0.006690
0.000352	0.000749	8.66E-05	
176	0.000894	7.71E-05	0.008078
0.000430	0.000569	7.28E-05	
177	0.000894	8.61E-05	0.008770
0.000468	0.000376	6.10E-05	
178	0.000895	8.62E-05	0.009026
0.000475	0.000259	5.78E-05	
179	0.000895	7.62E-05	0.008557
0.000445	0.000167	5.01E-05	
180	0.000894	5.72E-05	0.007281
0.000371	0.000420	6.56E-05	
181	0.000894	3.72E-05	0.005239
0.000258	0.000559	7.29E-05	
182	0.000894	2.01E-05	0.002416
0.000108	0.000680	7.46E-05	
183	0.000893	2.61E-05	3.31E-05
3.02E-05	0.000782	7.67E-05	
184	0.000893	4.24E-05	0.002327
0.000103	0.000890	9.20E-05	
185	0.000892	7.39E-05	0.005134
0.000247	0.000916	0.000105	
186	0.000892	0.000104	0.007273
0.000365	0.000824	0.000100	
187	0.000891	0.000129	0.008724
0.000445	0.000614	8.69E-05	
188	0.000891	0.000143	0.009380
0.000480	0.000398	6.69E-05	
189	0.000890	0.000145	0.009470
0.000482	0.000332	4.68E-05	
190	0.000890	0.000134	0.008855
0.000448	0.000332	4.68E-05	
191	0.000889	0.000112	0.007420
0.000369	0.000450	5.56E-05	
192	0.000889	8.15E-05	0.005263
0.000251	0.000575	6.73E-05	
193	0.000887	4.76E-05	0.002397
0.000105	0.000681	7.39E-05	
194	0.000888	2

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000897	0.000131	0.000572
4.82E-05	0.000874	4.36E-05	
216	0.000896	0.000125	5.52E-05
4.76E-05	0.000371	5.28E-05	
217	0.000873	0.000115	6.31E-05
8.30E-05	0.000988	0.000134	
218	0.000874	0.000103	0.001475
0.000121	0.000871	0.000102	
219	0.000871	9.67E-05	0.002970
0.000234	0.000697	8.91E-05	
220	0.000875	9.69E-05	0.004217
0.000310	0.000465	7.03E-05	
221	0.000875	0.000100	0.005094
0.000346	0.000231	5.38E-05	
222	0.000876	9.67E-05	0.005472
0.000345	0.000108	5.68E-05	
223	0.000877	8.67E-05	0.005231
0.000310	0.000198	5.64E-05	
224	0.000878	7.09E-05	0.004281
0.000250	0.000346	6.49E-05	
225	0.000879	5.65E-05	0.002534
0.000167	0.000509	7.63E-05	
226	0.000879	4.78E-05	3.74E-05
9.17E-05	0.000640	8.10E-05	
227	0.000881	4.01E-05	0.002053
0.000137	0.000756	8.93E-05	
228	0.000882	3.78E-05	0.004585
0.000230	0.000801	9.95E-05	
229	0.000883	4.49E-05	0.006547
0.000306	0.000730	9.25E-05	
230	0.000884	5.52E-05	0.007909
0.000365	0.000552	7.83E-05	
231	0.000884	6.43E-05	0.008589
0.000397	0.000361	6.63E-05	
232	0.000884	6.62E-05	0.008842
0.000399	0.000158	5.90E-05	
233	0.000884	6.00E-05	0.008383
0.000371	0.000294	5.42E-05	
234	0.000884	4.72E-05	0.007132
0.000311	0.000415	5.49E-05	
235	0.000883	3.23E-05	0.005129
0.000228	0.000553	6.04E-05	
236	0.000883	2.10E-05	0.002356
0.000125	0.000674	6.46E-05	
237	0.000883	2.88E-05	3.91E-05
6.95E-05	0.000773	6.83E-05	
238	0.000882	3.97E-05	0.002270
0.000127	0.000877	8.34E-05	
239	0.000882	6.07E-05	0.005026
0.000228	0.000902	9.61E-05	
240	0.000882	8.37E-05	0.007126
0.000310	0.000811	9.36E-05	
241	0.000882	0.000102	0.008550
0.000372	0.000604	8.37E-05	
242	0.000882	0.000112	0.009195
0.000403	0.000362	7.02E-05	
243	0.000883	0.000113	0.009283
0.000404	0.000282	5.87E-05	
244	0.000883	0.000103	0.008679
0.000375	0.000328	5.65E-05	
245	0.000883	8.59E-05	0.007270
0.000314	0.000444	6.57E-05	
246	0.000883	6.34E-05	0.005153
0.000231	0.000568	7.56E-05	
247	0.000883	4.24E-05	0.002338
0.000128	0.000673	8.01E-05	
248	0.000883	3.02E-05	3.91E-05
6.83E-05	0.000761	8.26E-05	
249	0.000882	2.35E-05	0.002525
0.000126	0.000855	9.78E-05	
250	0.000882	3.84E-05	0.005611
0.000232	0.000869	0.000108	
251	0.000881	6.10E-05	0.007990
0.000318	0.000772	0.000100	
252	0.000881	7.99E-05	0.009630
0.000382	0.000565	8.38E-05	
253	0.000880	9.11E-05	0.010422
0.000413	0.000364	6.46E-05	
254	0.000880	9.44E-05	0.010663
0.000414	0.000276	5.41E-05	
255	0.000880	8.83E-05	0.009993
0.000384	0.000351	5.94E-05	
256	0.000880	7.59E-05	0.008388
0.000325	0.000439	7.17E-05	
257	0.000880	6.75E-05	0.005955
0.000247	0.000640	8.51E-05	
258	0.000881	6.20E-05	0.002704
0.000152	0.000770	9.07E-05	
259	0.000882	5.80E-05	5.10E-05
0.000103	0.000903	0.000102	
260	0.000883	5.19E-05	0.002868
0.000180	0.001007	0.000123	
261	0.000885	5.69E-05	0.004983
0.000275	0.000984	0.000121	
262	0.000887	7.18E-05	0.006318
0.000353	0.000841	0.000107	
263	0.000889	9.12E-05	0.006939
0.000409	0.000601	8.60E-05	
264	0.000891	0.000106	0.006913
0.000434	0.000378	6.76E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000893	0.000113	0.006334
0.000426	0.000270	6.03E-05	
266	0.000891	0.000111	0.005307
0.000382	0.000317	6.26E-05	
267	0.000895	0.000111	0.003936
0.000302	0.000370	6.61E-05	
268	0.000895	0.000116	0.002319
0.000186	0.000404	6.96E-05	
269	0.000895	0.000122	0.000541
5.52E-05	0.000371	4.66E-05	
270	0.000894	0.000122	6.20E-05
6.63E-05	0.000368	5.73E-05	
271	0.000649	1.72E-05	.000000
0.000107	0.000862	9.36E-06	.000000
272	0.001527	8.57E-05	.000000
0.000103	0.000598	8.29E-06	
273	0.000010	0.000000	.000000
8.52E-05	0.000741	9.06E-06	.000000
274	0.001803	5.68E-06	.000000
6.98E-05	0.000731	9.38E-06	.000000
275	0.001002	4.21E-05	.000000
0.000149	0.000840	9.93E-06	.000000
276	0.002076	2.04E-05	.000000
6.20E-05	0.000377	7.47E-06	.000000
277	0.000654	8.71E-05	.000000
0.000106	0.000889	4.00E-06	.000000
278	0.001537	8.63E-05	.000000
6.90E-05	0.000605	3.09E-06	.000000
279	.000000	.000000	.000000
4.87E-05	0.000746	3.87E-06	.000000
280	0.001814	5.73E-06	.000000
3.78E-05	0.000736	4.35E-06	.000000
281	0.001016	2.28E-05	.000000
4.49E-05	0.000852	4.56E-06	.000000
282	0.002111	0.000102	.000000
3.07E-05	0.000373	4.73E-06	.000000
283	0.000638	1.82E-05	.000000
0.000170	0.000812	7.27E-06	.000000
284	0.001465	9.72E-06	.000000
0.000142	0.000561	6.89E-06	.000000
285	1.32E-06	4.46E-05	.000000
5.20E-05	0.000722	8.19E-06	.000000
286	0.001718	0.000376	.000000
6.65E-21	0.000705	8.10E-06	
287	0.000963	0.000170	.000000
2.91E-22	0.000824	8.40E-06	
288	0.002005	0.000284	.000000
1.06E-05	0.000367	1.05E-05	

COMB DL-G2-4 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000844	-0.000112	-2.30E-07
-0.000109	-0.000341	-7.88E-06	
2	-0.000843	-3.30E-06	-0.003784
-0.000147	-0.000326	-6.95E-06	
3	-0.000842	-0.000141	-0.007374
-0.000194	-0.000285	-5.05E-06	
4	-0.000842	-0.000157	-0.009921
-0.000222	-0.000221	-3.69E-06	
5	-0.000842	-0.000163	-0.011129
-0.000226	-0.000165	-3.00E-06	
6	-0.000842	-0.000160	-0.010870
-0.000212	-0.000218	-4.74E-06	
7	-0.000843	-0.000147	-0.009242
-0.000179	-0.000439	-6.55E-06	
8	-0.000843	-0.000125	-0.006580
-0.000129	-0.000604	-8.78E-06	
9	-0.000844	-0.000108	-0.003324
-6.89E-05	-0.000671	-1.03E-05	
10	-0.000845	-0.000100	-5.33E-07
-4.00E-05	-0.000637	-8.95E-06	
11	-0.000845	-9.62E-05	-0.002269
-7.38E-05	-0.000573	-8.75E-06	
12	-0.000847	-0.000104	-0.005839
-0.000150	-0.000464	-7.81E-06	
13	-0.000848	-0.000121	-0.009308
-0.000215	-0.000364	-6.23E-06	
14	-0.000849	-0.000139	-0.012133
-0.000259	-0.000260	-4.72E-06	
15	-0.000850	-0.000150	-0.013769
-0.000275	-0.000194	-3.44E-06	
16	-0.000850	-0.000149	-0.013920
-0.000268	-0.000244	-4.08E-06	
17	-0.000851	-0.000137	-0.012548
-0.000244	-0.000428	-4.63E-06	
18	-0.000851	-0.000117	-0.009870
-0.000197	-0.000635	-6.49E-06	
19	-0.000850	-9.32E-05	-0.006382
-0.000132	-0.000747	-8.52E-06	
20	-0.000850	-7.97E-05	-0.002577
-5.57E-05	-0.000759	-9.46E-06	
21	-0.000849	-8.14E-05	-5.47E-07
-2.91E-05	-0.000708	-8.56E-06	
22	-0.000849	-8.72E-05	-0.002729
-6.59E-05	-0.000630	-8.32E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	-0.000848	-0.000109	-0.006855
-0.000146	-0.000502	-7.78E-06	
24	-0.000847	-0.000137	-0.010760
-0.000213	-0.000384	-6.29E-06	
25	-0.000846	-0.000159	-0.013900
-0.000261	-0.000265	-4.77E-06	
26	-0.000846	-0.000170	-0.015657
-0.000282	-0.000201	-4.18E-06	
27	-0.000845	-0.000172	-0.015720
-0.000282	-0.000287	-4.35E-06	
28	-0.000844	-0.000161	-0.014073
-0.000261	-0.000504	-5.11E-06	
29	-0.000843	-0.000140	-0.010993
-0.000213	-0.000724	-7.26E-06	
30	-0.000843	-0.000112	-0.007078
-0.000145	-0.000835	-9.53E-06	
31	-0.000842	-8.87E-05	-0.002856
-6.42E-05	-0.000842	-1.08E-05	
32	-0.000841	-8.19E-05	-5.43E-07
-2.76E-05	-0.000787	-1.03E-05	
33	-0.000841	-8.08E-05	-0.002669
-5.86E-05	-0.000704	-1.05E-05	
34	-0.000840	-0.000101	-0.006648
-0.000138	-0.000566	-9.77E-06	
35	-0.000839	-0.000133	-0.010351
-0.000205	-0.000443	-8.20E-06	
36	-0.000839	-0.000161	-0.013265
-0.000255	-0.000310	-6.61E-06	
37	-0.000838	-0.000187	-0.014809
-0.000279	-0.000228	-5.03E-06	
38	-0.000838	-0.000196	-0.014716
-0.000286	-0.000307	-4.53E-06	
39	-0.000838	-0.000174	-0.013010
-0.000268	-0.000506	-5.14E-06	
40	-0.000837	-0.000174	-0.010006
-0.000222	-0.000697	-6.66E-06	
41	-0.000838	-0.000150	-0.006314
-0.000154	-0.000775	-8.65E-06	
42	-0.000838	-0.000133	-0.002480
-7.60E-05	-0.000747	-8.20E-06	
43	-0.000838	-0.000127	-5.76E-07
-4.25E-05	-0.000667	-7.99E-06	
44	-0.000839	-0.000114	-0.004502
-8.38E-05	-0.000517	-8.35E-06	
45	-0.000839	-0.000110	-0.009143
-0.000157	-0.000357	-7.22E-06	
46	-0.000839	-0.000117	-0.013319
-0.000221	-0.000202	-5.66E-06	
47	-0.000840	-0.000127	-0.016476
-0.000270	-6.15E-05	-4.21E-06	
48	-0.000840	-0.000132	-0.018148
-0.000300	-4.55E-05	-3.02E-06	
49	-0.000839	-0.000131	-0.018068
-0.000314	-0.000264	-2.78E-06	
50	-0.000839	-0.000122	-0.016182
-0.000303	-0.000570	-3.53E-06	
51	-0.000839	-0.000106	-0.012640
-0.000267	-0.000862	-4.81E-06	
52	-0.000839	-8.58E-05	-0.007743
-0.000209	-0.001097	-6.26E-06	
53	-0.000839	-7.37E-05	-0.001859
-0.000151	-0.001232	-8.24E-06	
54	-0.000839	-7.33E-05	-2.50E-07
-0.000139	-0.001240	-8.51E-06	
55	-0.000848	-9.71E-05	-3.81E-07
-0.000116	-0.000335	-4.01E-06	
56	-0.000848	-8.62E-05	-0.003893
-0.000187	-0.000321	-3.11E-06	
57	-0.000848	-8.51E-05	-0.007550
-0.000274	-0.000281	-1.95E-06	
58	-0.000848	-8.39E-05	-0.010125
-0.000330	-0.000218	-1.93E-06	
59	-0.000848	-8.27E-05	-0.011339
-0.000347	-0.000165	-2.32E-06	
60	-0.000848	-8.03E-05	-0.011067
-0.000327	-0.000246	-3.03E-06	
61	-0.000849	-7.65E-05	-0.009407
-0.000277	-0.000462	-3.74E-06	
62	-0.000849	-7.13E-05	-0.006691
-0.000203	-0.000627	-4.34E-06	
63	-0.000850	-6.53E-05	-0.003368
-0.000114	-0.000693	-4.53E-06	
64	-0.000852	-6.11E-05	-8.74E-07
-5.11E-05	-0.000642	-3.93E-06	
65	-0.000852	-5.64E-05	-0.002296
-0.000109	-0.000566	-4.65E-06	
66	-0.000854	-5.21E-05	-0.005932
-0.000225	-0.000454	-3.66E-06	
67	-0.000855	-5.03E-05	-0.009454
-0.000320	-0.000357	-2.51E-06	
68	-0.000855	-4.91E-05	-0.012314
-0.000384	-0.000255	-1.93E-06	
69	-0.000856	-4.82E-05	-0.013964
-0.000412	-0.000194	-1.68E-06	
70	-0.000856	-4.68E-05	-0.014114
-0.000403	-0.000263	-1.79E-06	
71	-0.000856	-4.42E-05	-0.012722
-0.000361	-0.000443	-2.14E-06	
72	-0.000856	-4.02E-05	-0.010008
-0.000289	-0.000652	-2.81E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	-0.000856	-3.58E-05	-0.006467
-0.000195	-0.000766	-3.56E-06	
74	-0.000855	-3.49E-05	-0.002599
-8.60E-05	-0.000775	-3.78E-06	
75	-0.000855	-4.41E-05	-8.94E-07
-2.81E-05	-0.000713	-3.45E-06	
76	-0.000855	-5.26E-05	-0.002748
-9.50E-05	-0.000624	-4.33E-06	
77	-0.000854	-6.30E-05	-0.006930
-0.000214	-0.000492	-3.56E-06	
78	-0.000854	-7.26E-05	-0.010883
-0.000312	-0.000377	-2.52E-06	
79	-0.000854	-7.93E-05	-0.014054
-0.000384	-0.000261	-2.02E-06	
80	-0.000854	-8.28E-05	-0.015826
-0.000421	-0.000201	-1.85E-06	
81	-0.000854	-8.48E-05	-0.015889
-0.000421	-0.000297	-1.97E-06	
82	-0.000854	-8.33E-05	-0.014224
-0.000385	-0.000513	-2.46E-06	
83	-0.000853	-7.75E-05	-0.011111
-0.000313	-0.000735	-3.46E-06	
84	-0.000853	-6.76E-05	-0.007149
-0.000214	-0.000850	-4.56E-06	
85	-0.000853	-5.51E-05	-0.002872
-9.48E-05	-0.000855	-5.15E-06	
86	-0.000853	-4.45E-05	-8.91E-07
-2.49E-05	-0.000790	-5.15E-06	
87	-0.000852	-3.60E-05	-0.002690
-8.62E-05	-0.000696	-6.19E-06	
88	-0.000852	-4.35E-05	-0.006726
-0.000200	-0.000555	-5.72E-06	
89	-0.000851	-5.95E-05	-0.010480
-0.000297	-0.000435	-4.94E-06	
90	-0.000851	-7.76E-05	-0.013430
-0.000373	-0.000305	-4.25E-06	
91	-0.000850	-9.41E-05	-0.014994
-0.000417	-0.000230	-3.48E-06	
92	-0.000850	-0.000108	-0.014904
-0.000427	-0.000851	-4.32E-06	
93	-0.000850	-0.000116	-0.013182
-0.000397	-0.000509	-2.08E-06	
94	-0.000850	-0.000118	-0.010145
-0.000330	-0.000703	-1.87E-06	
95	-0.000851	-0.000113	-0.006401
-0.000231	-0.000787	-2.77E-06	
96	-0.000851	-0.000101	-0.002505
-0.000110	-0.000760	-3.32E-06	
97	-0.000851	-8.81E-05	-9.14E-07
-5.48E-05	-0.000671	-2.59E-06	
98	-0.000852	-6.49E-05	-0.004520
-0.000121	-0.000508	-3.82E-06	
99	-0.000853	-4.42E-05	-0.009198
-0.000228	-0.000348	-2.90E-06	
100	-0.000854	-3.35E-05	-0.013401
-0.000320	-0.000197	-2.25E-06	
101	-0.000855	-2.96E-05	-0.016573
-0.000394	-6.02E-05	-2.07E-06	
102	-0.000855	-2.86E-05	-0.018253
-0.000443	-5.85E-05	-1.97E-06	
103	-0.000856	-2.97E-05	-0.018177
-0.000461	-0.000257	-1.71E-06	
104	-0.000856	-3.30E-05	-0.016290
-0.000441	-0.000560	-1.59E-06	
105	-0.000856	-3.80E-05	-0.012748
-0.000383	-0.000855	-1.95E-06	
106	-0.000856	-4.42E-05	-0.007834
-0.000289	-0.001100	-3.05E-06	
107	-0.000855	-5.38E-05	-0.001890
-0.000181	-0.001252	-5.54E-06	
108	-0.000855	-5.72E-05	-4.15E-07
-0.000171	-0.001263	-5.95E-06	
109	-0.000826	-8.89E-05	-2.18E-07
-0.000194	-0.000329	-8.39E-06	
110	-0.000826	-8.22E-05	-0.003608
-0.000258	-0.000315	-8.51E-06	
111	-0.000826	-9.12E-05	-0.007037
-0.000330	-0.000276	-7.24E-06	
112	-0.000827	-0.000115	-0.009474
-0.000371	-0.000215	-5.40E-06	
113	-0.000827	-0.000131	-0.010635
-0.000378	-0.000151	-3.52E-06	
114	-0.000827	-0.000136	-0.010394
-0.000353	-0.000245	-3.30E-06	
115	-0.000828	-0.000128	-0.008842
-0.000299	-0.000445	-4.32E-06	
116	-0.000827	-0.000120	-0.006299
-0.000222	-0.000599	-5.61E-06	
117	-0.000830	-8.26E-05	-0.003184
-0.000137	-0.000659	-6.85E-06	
118	-0.000830	-5.95E-05	-5.30E-07
-0.000104	-0.000621	-7.58E-06	
119	-0.000830	-6.40E-05	-0.002178
-0.000146	-0.000558	-5.40E-06	
120	-0.000831	-8.63E-05	-0.005607
-0.000247	-0.000451	-7.55E-06	
121	-0.000830	-0.000109	-0.008939
-0.000342	-0.000354	-6.62E-06	
122	-0.000830	-0.000128	-0.011651
-0.000406	-0.000253	-5.52E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000830	-0.000140	-0.013223
-0.000434	-0.000186	-4.29E-06	
124	-0.000829	-0.000141	-0.013370
-0.000425	-0.000252	-3.82E-06	
125	-0.000829	-0.000131	-0.012053
-0.000386	-0.000427	-4.27E-06	
126	-0.000828	-0.000114	-0.009484
-0.000314	-0.000625	-5.08E-06	
127	-0.000828	-8.11E-05	-0.006135
-0.000219	-0.000731	-6.34E-06	
128	-0.000827	-4.99E-05	-0.002478
-0.000119	-0.000741	-7.33E-06	
129	-0.000827	-4.59E-05	-5.45E-07
-9.24E-05	-0.000590	-7.72E-06	
130	-0.000827	-5.82E-05	-0.002626
-0.000130	-0.000614	-7.91E-06	
131	-0.000827	-9.22E-05	-0.006595
-0.000236	-0.000489	-7.44E-06	
132	-0.000828	-0.000122	-0.010349
-0.000334	-0.000374	-6.36E-06	
133	-0.000828	-0.000144	-0.013365
-0.000406	-0.000258	-5.28E-06	
134	-0.000829	-0.000154	-0.015053
-0.000441	-0.000195	-4.28E-06	
135	-0.000829	-0.000154	-0.015113
-0.000441	-0.000279	-4.26E-06	
136	-0.000830	-0.000142	-0.013530
-0.000405	-0.000489	-5.03E-06	
137	-0.000831	-0.000120	-0.010569
-0.000334	-0.000702	-6.13E-06	
138	-0.000831	-8.92E-05	-0.006806
-0.000235	-0.000810	-7.43E-06	
139	-0.000831	-5.65E-05	-0.002746
-0.000129	-0.000816	-8.16E-06	
140	-0.000831	-4.72E-05	-5.41E-07
-9.15E-05	-0.000765	-8.95E-06	
141	-0.000831	-5.78E-05	-0.002568
-0.000122	-0.000684	-9.18E-06	
142	-0.000831	-9.29E-05	-0.006393
-0.000224	-0.000551	-8.73E-06	
143	-0.000830	-0.000127	-0.009953
-0.000322	-0.000431	-7.70E-06	
144	-0.000830	-0.000153	-0.012751
-0.000396	-0.000301	-6.25E-06	
145	-0.000830	-0.000169	-0.014235
-0.000438	-0.000223	-4.84E-06	
146	-0.000829	-0.000174	-0.014145
-0.000446	-0.000284	-4.45E-06	
147	-0.000829	-0.000165	-0.012504
-0.000416	-0.000479	-4.90E-06	
148	-0.000828	-0.000145	-0.009618
-0.000348	-0.000665	-5.26E-06	
149	-0.000828	-0.000118	-0.006069
-0.000250	-0.000745	-6.06E-06	
150	-0.000828	-0.000100	-0.002383
-0.000147	-0.000720	-6.57E-06	
151	-0.000828	-9.33E-05	-5.75E-07
-0.000107	-0.000645	-6.84E-06	
152	-0.000829	-9.64E-05	-0.004315
-0.000152	-0.000501	-6.97E-06	
153	-0.000830	-0.000116	-0.008760
-0.000252	-0.000346	-6.19E-06	
154	-0.000830	-0.000132	-0.012754
-0.000347	-0.000196	-4.95E-06	
155	-0.000831	-0.000139	-0.015769
-0.000422	-5.94E-05	-3.48E-06	
156	-0.000832	-0.000134	-0.017362
-0.000470	-5.39E-05	-2.71E-06	
157	-0.000833	-0.000119	-0.017277
-0.000488	-0.000223	-3.27E-06	
158	-0.000833	-9.75E-05	-0.015465
-0.000475	-0.000524	-4.79E-06	
159	-0.000834	-7.00E-05	-0.012073
-0.000428	-0.000809	-7.67E-06	
160	-0.000834	-4.76E-05	-0.007389
-0.000344	-0.001040	-8.21E-06	
161	-0.000834	-5.43E-05	-0.001774
-0.000231	-0.001178	-9.02E-06	
162	-0.000833	-5.70E-05	-2.33E-07
-0.000215	-0.001188	-9.09E-06	
163	-0.000847	-8.46E-05	-0.000121
-0.000182	-0.000354	-7.47E-05	
164	-0.000846	-9.92E-05	-0.003910
-0.000177	-0.000404	-6.30E-05	
165	-0.000845	-0.000114	-0.007571
-0.000275	-0.000358	-6.26E-05	
166	-0.000845	-0.000123	-0.010166
-0.000338	-0.000301	-5.96E-05	
167	-0.000845	-0.000125	-0.011394
-0.000359	-0.000257	-5.86E-05	
168	-0.000845	-0.000121	-0.011119
-0.000342	-0.000321	-6.57E-05	
169	-0.000846	-0.000111	-0.009446
-0.000296	-0.000539	-7.93E-05	
170	-0.000846	-9.48E-05	-0.006722
-0.000237	-0.000704	-8.90E-05	
171	-0.000847	-7.96E-05	-0.003398
-0.000161	-0.000768	-9.17E-05	
172	-0.000848	-6.93E-05	-7.35E-05
-8.67E-05	-0.000711	-7.84E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	-0.000849	-6.88E-05	-0.002323
-0.000135	-0.000611	-6.99E-05	
174	-0.000850	-7.47E-05	-0.005964
-0.000235	-0.000532	-6.62E-05	
175	-0.000851	-8.32E-05	-0.009495
-0.000318	-0.000435	-5.63E-05	
176	-0.000852	-9.21E-05	-0.012368
-0.000381	-0.000336	-4.95E-05	
177	-0.000853	-9.77E-05	-0.014033
-0.000409	-0.000281	-5.17E-05	
178	-0.000853	-9.67E-05	-0.014183
-0.000404	-0.000344	-6.33E-05	
179	-0.000854	-8.80E-05	-0.012779
-0.000369	-0.000523	-7.18E-05	
180	-0.000853	-7.32E-05	-0.010052
-0.000305	-0.000732	-9.25E-05	
181	-0.000853	-5.86E-05	-0.006502
-0.000224	-0.000841	-9.79E-05	
182	-0.000852	-4.80E-05	-0.002628
-0.000125	-0.000839	-9.18E-05	
183	-0.000852	-5.15E-05	-7.16E-05
-6.97E-05	-0.000749	-7.41E-05	
184	-0.000851	-6.12E-05	-0.002778
-0.000127	-0.000665	-7.36E-05	
185	-0.000850	-8.26E-05	-0.006970
-0.000230	-0.000568	-7.39E-05	
186	-0.000850	-8.00E-05	-0.010934
-0.000317	-0.000455	-6.80E-05	
187	-0.000849	-0.000118	-0.014121
-0.000384	-0.000340	-6.29E-05	
188	-0.000849	-0.000126	-0.015909
-0.000416	-0.000287	-5.92E-05	
189	-0.000849	-0.000128	-0.015972
-0.000416	-0.000383	-6.10E-05	
190	-0.000849	-0.000122	-0.014293
-0.000384	-0.000596	-7.43E-05	
191	-0.000848	-0.000108	-0.011164
-0.000319	-0.000819	-9.18E-05	
192	-0.000848	-8.73E-05	-0.007192
-0.000232	-0.000926	-0.000102	
193	-0.000847	-6.41E-05	-0.002903
-0.000129	-0.000919	-9.60E-05	
194	-0.000847	-5.21E-05	-7.12E-05
-6.81E-05	-0.000825	-8.35E-05	
195	-0.000846	-4.91E-05	-0.002719
-0.000125	-0.000736	-8.37E-05	
196	-0.000845	-6.50E-05	-0.006765
-0.000228	-8.11E-05	-0.000530	
197	-0.000844	-9.32E-05	-0.010528

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	-0.000838	-8.69E-05	-0.009252
-0.000359	-0.000543	-8.35E-05	
224	-0.000839	-7.62E-05	-0.006591
-0.000266	-0.000700	-9.50E-05	
225	-0.000839	-6.23E-05	-0.003342
-0.000142	-0.000757	-9.67E-05	
226	-0.000840	-5.55E-05	-0.000122
-4.32E-05	-0.000698	-8.43E-05	
227	-0.000841	-5.29E-05	-0.002290
-0.000125	-0.000601	-7.57E-05	
228	-0.000842	-5.80E-05	-0.005856
-0.000279	-0.000523	-7.47E-05	
229	-0.000842	-6.71E-05	-0.009314
-0.000395	-0.000429	-5.65E-05	
230	-0.000843	-7.59E-05	-0.012129
-0.000472	-0.000331	-5.93E-05	
231	-0.000843	-8.21E-05	-0.013761
-0.000502	-0.000275	-5.96E-05	
232	-0.000843	-8.20E-05	-0.013909
-0.000494	-0.000348	-6.69E-05	
233	-0.000843	-7.52E-05	-0.012535
-0.000452	-0.000523	-7.69E-05	
234	-0.000843	-6.29E-05	-0.009863
-0.000369	-0.000726	-8.60E-05	
235	-0.000842	-4.73E-05	-0.006387
-0.000251	-0.000832	-8.96E-05	
236	-0.000842	-3.46E-05	-0.002591
-0.000103	-0.000826	-7.90E-05	
237	-0.000842	-4.03E-05	-0.000118
-3.27E-05	-0.000738	-6.56E-05	
238	-0.000841	-5.03E-05	-0.002738
-0.000113	-0.000657	-6.33E-05	
239	-0.000841	-6.74E-05	-0.006847
-0.000269	-0.000560	-6.12E-05	
240	-0.000841	-8.60E-05	-0.010732
-0.000391	-0.000449	-5.70E-05	
241	-0.000841	-9.91E-05	-0.013856
-0.000475	-0.000336	-5.62E-05	
242	-0.000841	-0.000105	-0.015608
-0.000512	-0.000283	-5.99E-05	
243	-0.000841	-0.000106	-0.015669
-0.000512	-0.000378	-6.59E-05	
244	-0.000841	-0.000100	-0.014023
-0.000475	-0.000587	-7.89E-05	
245	-0.000842	-8.64E-05	-0.010957
-0.000393	-0.000806	-9.70E-05	
246	-0.000839	-6.82E-05	-0.007063
-0.000270	-0.000913	-0.000108	
247	-0.000841	-5.23E-05	-0.002861
-0.000114	-0.000906	-0.000101	
248	-0.000841	-4.11E-05	-0.000118
-3.23E-05	-0.000815	-8.77E-05	
249	-0.000841	-3.74E-05	-0.002680
-0.000106	-0.000729	-8.84E-05	
250	-0.000841	-5.68E-05	-0.006644
-0.000257	-0.000623	-8.62E-05	
251	-0.000840	-8.24E-05	-0.010333
-0.000379	-0.000506	-7.69E-05	
252	-0.000840	-0.000103	-0.013237
-0.000466	-0.000379	-6.75E-05	
253	-0.000839	-0.000118	-0.014783
-0.000509	-0.000312	-5.94E-05	
254	-0.000839	-0.000125	-0.014692
-0.000517	-0.000386	-6.10E-05	
255	-0.000839	-0.000124	-0.012990
-0.000486	-0.000580	-7.66E-05	
256	-0.000839	-0.000116	-0.009999
-0.000407	-0.000772	-9.43E-05	
257	-0.000839	-0.000108	-0.006321
-0.000286	-0.000849	-0.000102	
258	-0.000839	-9.65E-05	-0.002496
-0.000129	-0.000812	-9.17E-05	
259	-0.000840	-8.56E-05	-0.000141
-4.49E-05	-0.000702	-8.26E-05	
260	-0.000840	-7.12E-05	-0.004486
-0.000148	-0.000578	-7.73E-05	
261	-0.000841	-6.71E-05	-0.009080
-0.000286	-0.000420	-6.47E-05	
262	-0.000842	-6.78E-05	-0.013207
-0.000400	-0.000271	-5.41E-05	
263	-0.000843	-6.92E-05	-0.016329
-0.000486	-0.000140	-4.69E-05	
264	-0.000843	-6.62E-05	-0.017986
-0.000539	-0.000146	-4.86E-05	
265	-0.000844	-5.75E-05	-0.017905
-0.000557	-0.000328	-6.39E-05	
266	-0.000844	-4.49E-05	-0.016038
-0.000537	-0.000626	-9.06E-05	
267	-0.000843	-3.88E-05	-0.012543
-0.000473	-0.000915	-0.000118	
268	-0.000844	-4.25E-05	-0.007711
-0.000349	-0.001150	-0.000144	
269	-0.000843	-5.01E-05	-0.001888
-0.000159	-0.001261	-0.000106	
270	-0.000843	-5.30E-05	-0.000145
-0.000135	-0.001239	-0.000129	
271	-0.001075	-1.04E-05	.000000
-0.000105	-0.000340	-7.88E-06	
272	-0.001540	-8.49E-05	.000000
-6.04E-05	-0.000636	-8.95E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
-4.43E-05	-0.000707	-8.56E-06	
274	-0.001587	-6.45E-06	.000000
-3.14E-05	-0.000787	-1.03E-05	
275	-0.001205	-3.50E-05	.000000
-8.24E-05	-0.000662	-7.99E-06	
276	-0.001152	-1.13E-05	.000000
-0.000117	-0.000243	-8.80E-06	
277	-0.001116	-5.10E-05	.000000
-8.39E-05	-0.000331	-4.01E-06	
278	-0.001552	-8.55E-05	.000000
-5.95E-05	-0.000641	-3.93E-06	
279	.000000	.000000	.000000
-3.81E-05	-0.000712	-3.40E-06	
280	-0.001602	-6.49E-06	.000000
-2.97E-05	-0.000790	-5.15E-06	
281	-0.001222	-2.74E-05	.000000
-2.73E-05	-0.000672	-2.59E-06	
282	-0.001162	-5.61E-05	.000000
-5.24E-05	-0.001273	-5.95E-06	
283	-0.001048	-2.54E-05	.000000
-0.000173	-0.001308	-8.90E-06	
284	-0.001501	-9.69E-05	.000000
-0.000210	-0.000580	-7.58E-06	
285	-3.96E-06	-0.000134	.000000
-0.000108	-0.000687	-7.75E-06	
286	-0.001496	-0.000416	.000000
-2.46E-05	-0.000767	-8.95E-06	
287	-0.001148	-0.000297	.000000
-4.87E-05	-0.000652	-6.84E-06	
288	-0.001116	-0.000244	.000000
-4.03E-05	-0.001203	-9.08E-06	

COMB DL-G3-1 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000238	9.14E-06	1.86E-08
3.09E-05	0.000169	9.29E-07	
2	0.000239	1.16E-05	0.000469
7.41E-05	0.000165	8.20E-07	
3	0.000241	1.43E-05	0.000945
0.000126	0.000144	8.29E-07	
4	0.000242	1.66E-05	0.001333
0.000165	0.000104	9.30E-07	
5	0.000242	1.92E-05	0.001590
0.000184	4.80E-05	1.27E-06	
6	0.000242	2.19E-05	0.001672
0.000181	1.40E-06	2.63E-06	
7	0.000241	2.27E-05	0.001550
0.000156	4.12E-05	3.70E-06	
8	0.000240	1.96E-05	0.001215
0.000115	8.44E-05	4.44E-06	
9	0.000239	1.36E-05	0.000681
6.73E-05	0.000122	4.32E-06	
10	0.000237	1.15E-05	3.11E-08
2.56E-05	0.000147	3.81E-06	
11	0.000236	1.14E-05	0.000554
3.43E-05	0.000159	3.27E-06	
12	0.000236	1.72E-05	0.001308
8.63E-05	0.000163	1.97E-06	
13	0.000235	2.25E-05	0.001951
0.000140	0.000150	8.45E-07	
14	0.000235	2.45E-05	0.002429
0.000186	0.000114	6.46E-07	
15	0.000235	2.47E-05	0.002692
0.00023	6.19E-05	1.10E-06	
16	0.000234	2.58E-05	0.002778
0.000217	3.96E-05	2.29E-06	
17	0.000234	2.64E-05	0.002603
0.000196	6.86E-05	3.58E-06	
18	0.000234	2.48E-05	0.002164
0.000155	0.000110	4.47E-06	
19	0.000233	1.87E-05	0.001502
0.000103	0.000151	4.69E-06	
20	0.000233	7.92E-06	0.000660
4.91E-05	0.000182	4.20E-06	
21	0.000233	5.46E-06	3.43E-08
2.27E-05	0.000195	3.83E-06	
22	0.000234	6.37E-06	0.000628
4.01E-05	0.000199	3.38E-06	
23	0.000236	1.33E-05	0.001461
9.51E-05	0.000193	2.08E-06	
24	0.000237	1.95E-05	0.002154
0.000150	0.000168	8.92E-07	
25	0.000239	2.19E-05	0.002653
0.000196	0.000118	6.82E-07	
26	0.000240	2.18E-05	0.002895
0.000223	5.93E-05	1.14E-06	
27	0.000241	2.18E-05	0.002925
0.000223	4.98E-05	2.37E-06	
28	0.000242	2.19E-05	0.002697
0.000197	8.48E-05	3.68E-06	
29	0.000243	1.98E-05	0.002202
0.000152	0.000124	4.54E-06	
30	0.000244	1.42E-05	0.001502
9.64E-05	0.000158	4.66E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	0.000245	7.98E-06	0.000649
4.07E-05	0.000182	4.07E-06	
32	0.000246	6.09E-06	3.72E-08
2.27E-05	0.000189	3.71E-06	
33	0.000247	7.68E-06	0.000716
4.96E-05	0.000188	3.24E-06	
34	0.000248	1.79E-05	0.001665
0.000105	0.000175	1.78E-06	
35	0.000249	2.28E-05	0.002456
0.000159	0.000145	4.31E-07	
36	0.000250	2.25E-05	0.003030
0.000201	9.27E-05	3.21E-07	
37	0.000250	1.93E-05	0.003337
0.000224	3.92E-05	1.07E-06	
38	0.000251	1.53E-05	0.003403
0.000220	4.99E-05	2.49E-06	
39	0.000252	1.19E-05	0.003147
0.000191	9.86E-05	4.01E-06	
40	0.000252	8.33E-06	0.002578
0.000144	0.000144	5.05E-06	
41	0.000253	3.56E-06	0.001765
8.88E-05	0.000186	5.12E-06	
42	0.000253	1.12E-06	0.000766
3.74E-05	0.000214	4.39E-06	
43	0.000252	4.02E-06	3.22E-08
3.39E-05	0.000222	3.67E-06	
44	0.000251	1.80E-05	0.000800
8.84E-05	0.000218	2.70E-06	
45	0.000251	2.62E-05	0.001464
0.000153	0.000194	1.15E-06	
46	0.000249	2.78E-05	0.001935
0.000213	0.000148	1.86E-07	
47	0.000249	2.51E-05	0.002191
0.000258	8.24E-05	3.29E-07	
48	0.000248	2.02E-05	0.002230
0.000280	2.42E-05	1.18E-06	
49	0.000249	1.48E-05	0.002074
0.000276	5.31E-05	2.61E-06	
50	0.000250	9.55E-06	0.001754
0.000246	8.14E-05	4.46E-06	
51	0.000252	5.29E-06	0.001308
0.000193	0.000102	5.87E-06	
52	0.000255	2.84E-06	0.000773
0.000120	0.000115	6.16E-06	
53	0.000258	2.67E-06	0.000182
4.14E-05	0.000122	5.41E-06	
54	0.000258	3.13E-06	2.19E-08
2.45E-05	0.000122	5.24E-06	
55	0.000319	2.76E-05	1.80E-08
1.41E-05	0.000296	3.06E-07	
56	0.000320	2.44E-05	0.000548
8.63E-05	0.000289	2.46E-07	
57	0.000320	2.37E-05	0.001107
0.000201	0.000244	1.81E-07	
58	0.000320	2.38E-05	0.001574
0.000282	0.000170	2.54E-07	
59	0.000320	2.37E-05	0.001902
0.000322	7.51E-05	2.26E-07	
60	0.000320	2.30E-05	0.002043
0.000318	6.32E-06	4.47E-07	
61	0.000320	2.19E-05	0.001951
0.000271	3.69E-05	6.79E-07	
62	0.000320	2.01E-05	0.001590
0.000193	9.51E-05	1.09E-06	
63	0.000320	1.77E-05	0.000935
0.000100	0.000157	1.37E-06	
64	0.000320	1.48E-05	2.83E-08
1.92E-05	0.000213	6.20E-07	
65	0.000320	1.28E-05	0.000758
3.93E-05	0.000245	3.60E-07	
66	0.000320	9.79E-06	0.001700
0.000135	0.000265	3.93E-07	
67	0.000320	6.85E-06	0.002436
0.000234	0.000247	4.15E-07	
68	0.000320	5.02E-06	0.002947
0.000315	0.000187	4.74E-07	
69	0.000320	4.14E-06	0.003201
0.000363	0.000109	5.54E-07	
70	0.000320	4.19E-06	0.003296
0.000370	6.11E-05	5.40E-07	
71	0.000320	4.30E-06	0.003125
0.000333	7.59E-05	5.30E-07	
72	0.000320	4.33E-06	0.002655
0.000260	0.000124	8.27E-07	
73	0.000319	4.48E-06	0.001902
0.000164	0.000177	1.26E-06	
74	0.000319	6.77E-06	0.000870
6.46E-05	0.000233	1.39E-06	
75	0.000318	1.01E-05	4.04E-08
8.48E-06	0.000265	9.12E-07	
76	0.000318	1.20E-05	0.000838
4.95E-05	0.000288	7.24E-07	
77	0.000319	1.33E-05	0.001864
0.000150	0.000294	6.71E-07	
78	0.000319	1.50E-05	0.002653
0.000250	0.000262	5.93E-07	
79	0.000319	1.70E-05	0.003188
0.000331	0.000188	5.25E-07	
80	0.000319	1.86E-05	0.003429
0.000377	0.000105	6.22E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
81	0.000319	1.91E-05	0.003462
0.000378	6.94E-05	6.27E-07	
82	0.000319	1.85E-05	0.003236
0.000334	9.40E-05	6.13E-07	
83	0.000319	1.69E-05	0.002707
0.000254	0.000140	8.96E-07	
84	0.000319	1.47E-05	0.001912
0.000154	0.000188	1.29E-06	
85	0.000319	1.23E-05	0.000863
5.24E-05	0.000236	1.39E-06	
86	0.000319	9.71E-06	4.53E-08
6.20E-06	0.000261	9.78E-07	
87	0.000318	5.27E-06	0.000932
6.34E-05	0.000277	7.60E-07	
88	0.000318	3.56E-06	0.002081
0.000165	0.000273	6.88E-07	
89	0.000318	4.85E-06	0.002973
0.000263	0.000234	7.39E-07	
90	0.000318	7.15E-06	0.003588
0.000339	0.000155	7.98E-07	
91	0.000317	9.14E-06	0.003882
0.000378	8.01E-05	7.64E-07	
92	0.000317	1.14E-05	0.003973
0.000372	6.73E-05	6.60E-07	
93	0.000317	1.31E-05	0.003724
0.000322	0.000109	6.07E-07	
94	0.000317	1.53E-05	0.003123
0.000237	0.000161	7.03E-07	
95	0.000317	1.75E-05	0.002212
0.000137	0.000220	1.20E-06	
96	0.000317	1.96E-05	0.001002
3.89E-05	0.000274	1.48E-06	
97	0.000317	1.98E-05	2.61E-08
2.39E-05	0.000303	9.34E-07	
98	0.000318	1.63E-05	0.001059
0.000119	0.000322	5.56E-07	
99	0.000318	1.19E-05	0.001852
0.000231	0.000302	7.42E-07	
100	0.000318	9.08E-06	0.002356
0.000335	0.000240	1.04E-06	
101	0.000318	8.34E-06	0.002591
0.000410	0.000143	1.23E-06	
102	0.000318	9.58E-06	0.002581
0.000446	6.55E-05	1.19E-06	
103	0.000319	1.14E-05	0.002365
0.000439	6.72E-05	9.85E-07	
104	0.000319	1.43E-05	0.001981
0.000388	9.54E-05	7.81E-07	
105	0.000319	1.67E-05	0.001470
0.000294	0.000116	7.46E-07	
106	0.000319	2.07E-05	0.000867
0.000160	0.000130	1.29E-06	
107	0.000319	2.82E-05	0.000204
1.75E-05	0.000136	2.10E-06	
108	0.000320	3.11E-05	1.66E-08
1.85E-05	0.000136	2.21E-06	
109	0.000419	5.09E-05	2.44E-08
5.12E-05	0.000508	7.46E-06	
110	0.000416	8.05E-05	0.000627
0.000136	0.000472	7.04E-06	
111	0.000414	0.000111	0.001268
0.000239	0.000374	5.64E-06	
112	0.000412	0.000133	0.001811
0.000314	0.000246	3.44E-06	
113	0.000412	0.000141	0.002209
0.000353	0.000112	1.37E-06	
114	0.000413	0.000135	0.002409
0.000350	2.39E-05	3.04E-07	
115	0.000414	0.000115	0.002354
0.000309	3.60E-05	8.32E-07	
116	0.000417	8.62E-05	0.001988
0.000236	0.000108	2.22E-06	
117	0.000419	5.38E-05	0.001229
0.000147	0.000197	3.93E-06	
118	0.000422	2.85E-05	3.68E-08
7.82E-05	0.000306	5.61E-06	
119	0.000423	3.06E-05	0.000999
8.25E-05	0.000373	5.55E-05	
120	0.000425	5.55E-05	0.002120
0.000164	0.000405	7.12E-06	
121	0.000426	8.20E-05	0.002927
0.000259	0.000370	6.53E-06	
122	0.000427	0.000105	0.003460
0.000339	0.000277	5.08E-06	
123	0.000428	0.000122	0.003711
0.000387	0.000176	3.45E-06	
124	0.000429	0.000121	0.003807
0.000395	9.85E-05	1.95E-06	
125	0.000429	0.000108	0.003643
0.000363	8.50E-05	1.29E-06	
126	0.000430	8.29E-05	0.003154
0.000295	0.000137	1.66E-06	
127	0.000430	5.09E-05	0.002331
0.000204	0.000203	2.98E-06	
128	0.000430	1.96E-05	0.001117
0.000105	0.000290	4.76E-06	
129	0.000430	2.12E-05	5.72E-08
7.10E-05	0.000360	5.96E-06	
130	0.000429	4.30E-05	0.001086
9.04E-05	0.000416	6.88E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
131	0.000427	7.81E-05	0.002297
0.000182	0.000434	7.35E-06	
132	0.000425	0.000112	0.003160
0.000278	0.000387	6.64E-06	
133	0.000424	0.000140	0.003718
0.000356	0.000279	5.19E-06	
134	0.000423	0.000155	0.003956
0.000400	0.000176	3.60E-06	
135	0.000422	0.000154	0.003992
0.000401	0.000101	2.09E-06	
136	0.000421	0.000139	0.003772
0.000359	0.000102	1.51E-06	
137	0.000420	0.000111	0.003221
0.000282	0.000152	1.98E-06	
138	0.000419	7.57E-05	0.002351
0.000186	0.000212	3.29E-06	
139	0.000417	3.87E-05	0.001115
9.19E-05	0.000292	5.06E-06	
140	0.000417	1.67E-05	6.47E-08
7.10E-05	0.000355	6.27E-06	
141	0.000416	2.56E-05	0.001187
0.000104	0.000404	7.25E-06	
142	0.000414	6.24E-05	0.002527
0.000204	0.000411	7.80E-06	
143	0.000413	9.39E-05	0.003499
0.000297	0.000356	7.15E-06	
144	0.000412	0.000129	0.004141
0.000369	0.000244	5.37E-06	
145	0.000411	0.000147	0.004431
0.000404	0.000151	3.45E-06	
146	0.000410	0.000150	0.004532
0.000396	9.56E-05	1.77E-06	

147	0.000409	0.000139	0.004292
0.000345	0.000115	9.49E-07	
148	0.000409	0.000115	0.003671
0.000264	0.000173	1.35E-06	
149	0.000409	8.42E-05	0.002682
0.000167	0.000243	3.06E-06	
150	0.000409	5.26E-05	0.001272
8.87E-05	0.000332	5.16E-06	
151	0.000410	3.32E-05	3.49E-08
9.01E-05	0.000402	6.55E-06	
152	0.000412	3.66E-05	0.001359
0.000172	0.000465	9.04E-06	
153	0.000414	7.43E-05	0.002262
0.000281	0.000449	8.58E-06	
154	0.000417	0.000114	0.002780
0.000376	0.000366	7.92E-06	
155	0.000419	0.000147	0.002985
0.000443	0.000236	6.18E-06	
156	0.000420	0.000170	0.002925
0.000472	0.000139	4.04E-06	
157	0.000420	0.000177	0.002651
0.000462	8.84E-05	2.05E-06	
158	0.000419	0.000169	0.002206
0.000411	0.000108	8.52E-07	
159	0.000417	0.000145	0.001631
0.000322	0.000129	8.59E-07	
160	0.000414	0.000108	0.000960
0.000199	0.000145	8.78E-07	
161	0.000410	6.42E-05	0.000226
5.83E-05	0.000153	9.07E-07	
162	0.000409	5.03E-05	1.96E-08
3.01E-05	0.000153	9.16E-07	
163	0.000280	1.53E-05	9.57E-06
2.23E-05	0.000210	5.52E-05	
164	0.000281	1.66E-05	0.000510
7.13E-05	0.000212	4.26E-05	
165	0.000282	1.78E-05	0.001022
0.000178	0.000184	4.08E-05	
166	0.000282	1.88E-05	0.001444
0.000250	0.000133	3.54E-05	
167	0.000282	1.94E-05	0.001730
0.000282	6.23E-05	2.88E-05	
168	0.000282	1.97E-05	0.001834
0.000273	2.45E-06	2.38E-05	
169	0.000281	1.94E-05	0.001718
0.000229	3.95E-05	2.15E-05	
170	0.000280	1.81E-05	0.001365
0.000159	8.85E-05	2.07E-05	
171	0.000279	1.55E-05	0.000774
8.10E-05	0.000135	2.03E-05	
172	0.000278	1.28E-05	2.95E-06
9.06E-06	0.000173	1.85E-05	
173	0.000278	1.22E-05	0.000627
2.99E-05	0.000193	1.82E-05	
174	0.000278	1.25E-05	0.001467
0.000111	0.000204	1.90E-05	
175	0.000277	1.31E-05	0.002159
0.000198	0.000190	1.72E-05	
176	0.000277	1.29E-05	0.002658
0.000272	0.000145	1.69E-05	
177	0.000277	1.30E-05	0.002917
0.000315	8.17E-05	2.13E-05	
178	0.000277	1.39E-05	0.003012
0.000320	4.77E-05	2.64E-05	
179	0.000277	1.48E-05	0.002833
0.000286	7.23E-05	3.25E-05	
180	0.000277	1.50E-05	0.002373
0.000219	0.000117	3.81E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	0.000277	1.33E-05	0.001664
0.000134	0.000163	4.37E-05	
182	0.000277	8.09E-06	0.000736
5.10E-05	0.000203	4.51E-05	
183	0.000277	4.49E-06	5.24E-06
4.65E-06	0.000223	4.36E-05	
184	0.000278	5.54E-06	0.000704
3.86E-05	0.000236	4.84E-05	
185	0.000278	9.02E-06	0.001625
0.000123	0.000233	5.18E-05	
186	0.000279	1.12E-05	0.002368
0.000213	0.000207	4.79E-05	
187	0.000279	1.30E-05	0.002890
0.000286	0.000146	4.03E-05	
188	0.000279	1.41E-05	0.003135
0.000326	7.60E-05	2.91E-05	
189	0.000280	1.47E-05	0.003167
0.000327	5.70E-05	1.78E-05	
190	0.000280	1.46E-05	0.002935
0.000289	8.99E-05	9.73E-06	
191	0.000280	1.35E-05	0.002418
0.000216	0.000132	1.03E-05	
192	0.000281	1.10E-05	0.001668
0.000127	0.000173	1.39E-05	
193	0.000282	7.29E-06	0.000726
4.11E-05	0.000206	1.76E-05	
194	0.000282	5.05E-06	4.96E-06
4.07E-06	0.000219	1.90E-05	
195	0.000283	7.60E-06	0.000796
5.04E-05	0.000225	2.33E-05	
196	0.000283	1.12E-05	0.001836
0.000136	0.000213	2.81E-05	
197	0.000283	1.21E-05	0.002679
0.000223	0.000180	2.86E-05	
198	0.000284	1.06E-05	0.003278
0.000293	0.000116	2.87E-05	
199	0.000284	8.02E-06	0.003584
0.000327	5.26E-05	2.77E-05	
200	0.000284	5.86E-06	0.003660
0.000322	5.69E-05	2.85E-05	
201	0.000284	4.75E-06	0.003401
0.000279	0.000105	3.11E-05	
202	0.000284	4.14E-06	0.002810
0.000203	0.000154	3.56E-

224	0.000368	4.64E-05	0.001830
0.000251	9.73E-05	2.79E-05	
225	0.000369	3.12E-05	0.001127
0.000120	0.000172	2.81E-05	
226	0.000371	1.90E-05	7.57E-05
9.50E-06	0.000255	2.73E-05	
227	0.000372	1.80E-05	0.000920
3.77E-05	0.000307	2.82E-05	
228	0.000372	2.46E-05	0.001950
0.000173	0.000336	2.97E-05	
229	0.000373	3.61E-05	0.002719
0.000302	0.000374	2.67E-05	
230	0.000374	4.65E-05	0.003236
0.000402	0.000236	2.42E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	0.000374	5.45E-05	0.003485
0.000456	0.000146	2.86E-05	
232	0.000374	5.55E-05	0.003580
0.000464	7.89E-05	3.36E-05	
233	0.000374	4.89E-05	0.003416
0.000423	7.96E-05	3.97E-05	
234	0.000374	3.60E-05	0.002942
0.000333	0.000130	4.58E-05	
235	0.000374	1.96E-05	0.002158
0.000208	0.000188	5.24E-05	
236	0.000374	4.60E-06	0.001036
6.79E-05	0.000260	5.54E-05	
237	0.000373	1.28E-05	7.42E-05
5.65E-06	0.000311	5.59E-05	
238	0.000373	2.48E-05	0.001003
5.03E-05	0.000352	6.36E-05	
239	0.000372	4.32E-05	0.002121
0.000190	0.000385	6.84E-05	
240	0.000372	6.14E-05	0.002944
0.000321	0.000327	6.32E-05	
241	0.000371	7.62E-05	0.003486
0.000420	0.000235	5.30E-05	
242	0.000370	8.44E-05	0.003721
0.000470	0.000141	3.83E-05	
243	0.000370	8.44E-05	0.003756
0.000471	8.59E-05	2.45E-05	
244	0.000369	7.63E-05	0.003537
0.000423	9.77E-05	1.39E-05	
245	0.000369	6.13E-05	0.003002
0.000325	0.000146	1.50E-05	
246	0.000368	4.25E-05	0.002174
0.000194	0.000200	1.93E-05	
247	0.000368	2.29E-05	0.001032
5.35E-05	0.000265	2.36E-05	
248	0.000367	9.81E-06	7.42E-05
5.40E-06	0.000310	2.71E-05	
249	0.000367	7.86E-06	0.001100
6.73E-05	0.000361	3.47E-05	
250	0.000366	2.74E-05	0.002345
0.000209	0.000342	4.16E-05	
251	0.000365	4.77E-05	0.003274
0.000337	0.000295	4.16E-05	
252	0.000365	6.48E-05	0.003898
0.000431	0.000197	3.93E-05	
253	0.000364	7.58E-05	0.004185
0.000473	0.000114	3.64E-05	
254	0.000364	7.89E-05	0.004285
0.000465	8.10E-05	3.50E-05	
255	0.000363	7.41E-05	0.004045
0.000410	0.000112	3.88E-05	
256	0.000363	6.30E-05	0.003440
0.000307	0.000168	4.39E-05	
257	0.000363	4.83E-05	0.002495
0.000175	0.000233	4.87E-05	
258	0.000363	3.33E-05	0.001186
3.88E-05	0.000308	4.95E-05	
259	0.000364	2.35E-05	8.37E-05
9.63E-06	0.000357	5.27E-05	
260	0.000361	1.41E-05	0.001255
0.000134	0.000395	6.11E-05	
261	0.000366	2.94E-05	0.002099
0.000287	0.000374	5.96E-05	
262	0.000367	5.15E-05	0.002603
0.000414	0.000300	5.31E-05	
263	0.000368	7.19E-05	0.002815
0.000502	0.000184	4.28E-05	
264	0.000369	8.56E-05	0.002773
0.000544	9.87E-05	3.37E-05	
265	0.000369	9.17E-05	0.002521
0.000539	7.62E-05	2.93E-05	
266	0.000368	8.89E-05	0.002101
0.000486	0.000103	2.90E-05	
267	0.000367	7.77E-05	0.001553
0.000380	0.000124	2.98E-05	
268	0.000365	6.05E-05	0.000912
0.000215	0.000138	3.11E-05	
269	0.000363	4.17E-05	0.000209
1.77E-05	0.000145	2.12E-05	
270	0.000362	3.40E-05	9.69E-05
2.39E-05	0.000144	2.61E-05	
271	0.000158	3.06E-06	.000000
3.47E-05	0.000168	9.29E-07	.000000
272	0.000403	2.22E-05	.000000
3.03E-05	0.000145	3.81E-06	
273	.000000	.000000	.000000
2.76E-05	0.000193	3.83E-06	
274	0.000493	1.51E-06	.000000
2.36E-05	0.000188	3.71E-06	
275	0.000235	9.87E-06	.000000
4.71E-05	0.000219	3.67E-06	
276	0.000514	5.06E-06	.000000
2.46E-05	0.000122	5.24E-06	
277	0.000372	2.85E-05	.000000
2.81E-05	0.000295	3.06E-07	
278	0.000548	3.07E-05	.000000
1.88E-05	0.000213	6.20E-07	
279	.000000	.000000	.000000
9.68E-06	0.000265	9.12E-07	
280	0.000648	2.05E-06	.000000
8.03E-06	0.000261	9.78E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.000355	7.97E-06	.000000
1.05E-05	0.000304	9.34E-07	
282	0.000727	3.51E-05	.000000
5.42E-06	0.000137	2.21E-06	
283	0.000342	9.42E-05	.000000
0.000175	0.000473	7.46E-06	
284	0.000735	6.92E-05	.000000
0.000130	0.000276	5.61E-06	
285	2.87E-06	9.71E-05	.000000
7.96E-05	0.000356	5.96E-06	
286	0.000813	0.000240	.000000
3.97E-05	0.000363	6.27E-06	
287	0.000504	0.000158	.000000
4.61E-05	0.000410	6.55E-06	
288	0.001046	0.000220	.000000
6.11E-05	0.000159	9.16E-07	

COMB DL-G3-1 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000226	-3.70E-05	-4.66E-09
-6.04E-06	-0.000106	-4.42E-06	
2	-0.000226	-5.58E-05	-0.000726
-9.56E-06	-0.000103	-4.48E-06	
3	-0.000226	-7.67E-05	-0.001442
-2.02E-05	-9.04E-05	-4.14E-06	
4	-0.000226	-9.27E-05	-0.001981
-3.12E-05	-6.97E-05	-2.83E-06	
5	-0.000227	-9.92E-05	-0.002268
-4.18E-05	-3.07E-05	-1.18E-06	
6	-0.000227	-9.47E-05	-0.002264
-5.01E-05	-1.51E-05	-2.56E-07	
7	-0.000227	-8.05E-05	-0.001975
-5.29E-05	-6.88E-05	-2.02E-07	
8	-0.000226	-6.07E-05	-0.001454
-4.68E-05	-0.000114	-1.43E-06	
9	-0.000225	-4.23E-05	-0.000769
-2.87E-05	-0.000143	-2.95E-06	
10	-0.000224	-3.40E-05	-7.09E-09
-2.23E-06	-0.000157	-3.73E-06	
11	-0.000223	-3.82E-05	-0.000530
-5.88E-06	-0.000158	-4.12E-06	
12	-0.000221	-5.49E-05	-0.001315
-3.40E-05	-0.000145	-4.70E-06	
13	-0.000220	-7.68E-05	-0.002063
-5.44E-05	-0.000122	-4.54E-06	
14	-0.000218	-9.61E-05	-0.002675
-6.67E-05	-9.02E-05	-3.63E-06	
15	-0.000217	-0.000107	-0.003040
-7.26E-05	-5.11E-05	-2.31E-06	
16	-0.000217	-0.000108	-0.003092
-7.47E-05	-3.39E-05	-1.05E-06	
17	-0.000217	-9.70E-05	-0.002818
-7.44E-05	-7.81E-05	-5.57E-07	
18	-0.000217	-7.78E-05	-0.002255
-6.65E-05	-0.000129	-7.21E-07	
19	-0.000217	-5.47E-05	-0.001500
-4.91E-05	-0.000162	-1.86E-06	
20	-0.000218	-3.38E-05	-0.000633
-2.05E-05	-0.000178	-3.20E-06	
21	-0.000218	-2.72E-05	-8.42E-09
-4.55E-06	-0.000181	-3.72E-06	
22	-0.000219	-2.96E-05	-0.000687
-1.22E-05	-0.000177	-4.17E-06	
23	-0.000220	-4.66E-05	-0.001664
-4.13E-05	-0.000156	-4.73E-06	
24	-0.000220	-6.91E-05	-0.002560
-6.11E-05	-0.000126	-4.54E-06	
25	-0.000221	-8.84E-05	-0.003273
-7.23E-05	-8.83E-05	-3.64E-06	
26	-0.000222	-9.93E-05	-0.003674
-7.62E-05	-5.06E-05	-2.31E-06	
27	-0.000223	-9.90E-05	-0.003694
-7.68E-05	-5.31E-05	-1.08E-06	
28	-0.000223	-8.78E-05	-0.003329
-7.34E-05	-0.000111	-6.46E-07	
29	-0.000224	-6.85E-05	-0.002635
-6.25E-05	-0.000165	-8.53E-07	
30	-0.000225	-4.64E-05	-0.001736
-4.24E-05	-0.000196	-2.00E-06	
31	-0.000225	-2.97E-05	-0.000727
-1.28E-05	-0.000208	-3.33E-06	
32	-0.000226	-2.75E-05	-6.33E-09
-4.82E-06	-0.000208	-3.92E-06	
33	-0.000226	-3.37E-05	-0.000662
-2.16E-05	-0.000201	-4.41E-06	
34	-0.000227	-5.48E-05	-0.001585
-5.17E-05	-0.000175	-4.82E-06	
35	-0.000228	-7.78E-05	-0.002409
-7.08E-05	-0.000142	-4.42E-06	
36	-0.000229	-9.02E-05	-0.003044
-8.03E-05	-9.90E-05	-3.55E-06	
37	-0.000230	-0.000105	-0.003373
-8.19E-05	-5.75E-05	-2.26E-06	
38	-0.000230	-0.000102	-0.003341
-8.08E-05	-6.55E-05	-1.22E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000230	-8.82E-05	-0.002960
-7.47E-05	-0.000120	-9.26E-07	
40	-0.000230	-6.71E-05	-0.002297
-6.10E-05	-0.000161	-1.40E-06	
41	-0.000229	-4.60E-05	-0.001479
-3.78E-05	-0.000179	-2.66E-06	
42	-0.000229	-3.76E-05	-0.000603
-6.39E-06	-0.000178	-3.96E-06	
43	-0.000228	-4.34E-05	-6.99E-09
-3.04E-06	-0.000170	-4.04E-06	
44	-0.000227	-6.14E-05	-0.001123
-3.05E-05	-0.000147	-4.24E-06	
45	-0.000227	-8.23E-05	-0.002205
-5.05E-05	-0.000111	-4.62E-06	
46	-0.000227	-0.000104	-0.003144
-5.83E-05	-6.85E-05	-4.49E-06	
47	-0.000228	-0.000121	-0.003831
-5.69E-05	-2.42E-05	-3.86E-06	
48	-0.000228	-0.000130	-0.004168
-4.99E-05	-1.03E-05	-2.64E-06	
49	-0.000229	-0.000127	-0.004102
-4.02E-05	-2.50E-05	-1.29E-06	
50	-0.000229	-0.000113	-0.003628
-2.96E-05	-0.000161	-1.13E-06	
51	-0.000230	-8.85E-05	-0.002793
-1.92E-05	-0.000221	-9.65E-07	
52	-0.000230	-6.04E-05	-0.001684
-9.01E-06	-0.000260	-8.45E-07	
53	-0.000231	-3.45E-05	-0.000399
-4.26E-06	-0.000272	-9.12E-07	
54	-0.000230	-2.79E-05	-4.07E-09
-4.36E-06	-0.000271	-9.35E-07	
55	-0.000303	-2.86E-05	-3.01E-08
-2.55E-05	-0.000124	-1.59E-06	
56	-0.000303	-2.90E-05	-0.001294
-5.53E-06	-0.000120	-1.41E-06	
57	-0.000303	-3.08E-05	-0.002537
-2.04E-05	-0.000108	-6.62E-07	
58	-0.000303	-3.19E-05	-0.003430
-3.75E-05	-8.62E-05	-3.79E-07	
59	-0.000303	-3.20E-05	-0.003858
-5.52E-05	-5.52E-05	-1.27E-07	
60	-0.000303	-3.12E-05	-0.003774
-7.14E-05	-5.52E-05	-3.89E-07	
61	-0.000303	-2.92E-05	-0.003211
-8.29E-05	-0.000131	-4.05E-07	
62	-0.000303	-2.54E-05	-0.002288
-8.36E-05	-0.000197	-5.20E-07	
63	-0.000304	-1.98E-05	-0.001160
-6.36E-05	-0.000229	-5.91E-07	
64	-0.000304	-1.52E-05	-8.21E-08
-1.62E-05	-0.000227	-7.61E-07	
65	-0.000304	-1.50E-05	-0.000793
-2.79E-05	-0.000211	-1.12E-06	
66	-0.000304	-1.61E-05	-0.002038
-6.63E-05	-0.000175	-1.41E-06	
67	-0.000304	-1.69E-05	-0.003255
-8.61E-05	-0.000139	-9.12E-07	
68	-0.000304	-1.74E-05	-0.004250
-9.45E-05	-0.000101	-7.04E-07	
69	-0.000304	-1.75E-05	-0.004828
-9.70E-05	-6.74E-05	-5.80E-07	
70	-0.000304	-1.76E-05	-0.004883
-9.91E-05	-7.33E-05	-4.38E-07	
71	-0.000304	-1.69E-05	-0.004402
-0.000103	-0.000137	-2.49E-07	
72	-0.000304	-1.48E-05	-0.003461
-0.000101	-0.000215	-2.59E-07	
73	-0.000304	-1.12E-05	-0.002238
-8.58E-05	-0.000258	-4.28E-07	
74	-0.000304	-8.95E-06	-0.000907
-4.95E-05	-0.000266	-5.84E-07	
75	-0.000303	-1.02E-05	-8.49E-08
-8.43E-06	-0.000253	-7.91E-07	
76	-0.000303	-1.31E-05	-0.000962
-3.65E-05	-0.000230	-1.29E-06	
77	-0.000304	-1.82E-05	-0.002410
-7.58E-05	-0.000185	-1.24E-06	
78	-0.000304	-2.23E-05	-0.003784
-9.46E-05	-0.000142	-9.30E-07	
79	-0.000304	-2.49E-05	-0.004893
-0.000101	-9.80E-05	-6.70E-07	
80	-0.000304	-2.60E-05	-0.005514
-0.000101	-6.98E-05	-6.17E-07	
81	-0.000305	-2.65E-05	-0.005537
-0.000102	-9.77E-05	-5.53E-07	
82	-0.000305	-2.55E-05	-0.004955
-0.000103	-0.000101	-4.45E-07	
83	-0.000305	-2.27E-05	-0.003867
-9.73E-05	-0.000259	-5.03E-07	
84	-0.000305	-1.84E-05	-0.002489
-7.86E-05	-0.000297	-7.29E-07	
85	-0.000305	-1.29E-05	-0.001007
-3.90E-05	-0.000298	-9.57E-07	
86	-0.000305	-9.42E-06	-8.38E-08
-6.43E-06	-0.000281	-1.28E-06	
87	-0.000305	-7.30E-06	-0.000940
-4.90E-05	-0.000254	-1.82E-06	
88	-0.000305	-1.08E-05	-0.002335
-8.79E-05	-0.000204	-1.83E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	-0.000305	-1.76E-05	-0.003636
-0.000106	-0.000159	-1.66E-06	
90	-0.000306	-2.39E-05	-0.004664
-0.000110	-0.000109	-1.42E-06	
91	-0.000306	-2.90E-05	-0.005208
-0.000108	-8.06E-05	-1.12E-06	
92	-0.000306	-3.35E-05	-0.005174
-0.000108	-0.000116	-1.67E-07	
93	-0.000306	-3.62E-05	-0.004571
-0.000106	-0.000196	-4.26E-07	
94	-0.000306	-3.66E-05	-0.003511
-9.72E-05	-0.000260	-9.80E-08	
95	-0.000306	-3.43E-05	-0.002213
-7.48E-05	-0.000282	-1.14E-07	
96	-0.000306	-2.96E-05	-0.000871
-2.99E-05	-0.000266	-1.30E-07	
97	-0.000306	-2.62E-05	-9.43E-08
-1.70E-05	-0.000237	-3.67E-07	
98	-0.000306	-2.37E-05	-0.001585
-6.60E-05	-0.000184	-1.05E-06	
99	-0.000306	-2.14E-05	-0.003213
-8.79E-05	-0.000107	-1.78E-07	
100	-0.000307	-1.78E-05	-0.004682
-8.91E-05	-6.61E-05	-7.98E-07	
101	-0.000307	-1.40E-05	-0.005793
-7.94E-05	-1.45E-05	-6.73E-07	
102	-0.000307	-1.19E-05	-0.006379
-6.51E-05	-2.89E-05	-5.53E-07	
103	-0.000307	-1.18E-05	-0.006346
-4.94E-05	-0.000125	-4.45E-07	
104	-0.000307	-1.33E-05	-0.005674
-3.41E-05	-0.000243	-3.65E-07	
105	-0.000307	-1.44E-05	-0.004420
-1.98E-05	-0.000340	-2.55E-07	
106	-0.000229	-1.53E-05	-0.002696
-6.99E-06	-0.000408	-2.96E-07	
107	-0.000307	-1.62E-05	-0.000644
-1.60E-05	-0.000433	-4.25E-07	
108	-0.000307	-1.65E-05	-3.38E-08
-4.62E-05	-0.000431	-4.45E-07	
109	-0.000401	-4.09E-05	-2.78E-07
-7.90E-06	-0.000143	-1.00E-06	
110	-0.000401	-4.46E-05	-0.002142
-9.27E-06	-0.000138	-1.07E-06	
111	-0.000400	-4.87E-05	-0.004117
-1.89E-05	-0.000124	-1.04E-06	
112	-0.000400	-5.28E-05	-0.005469
-2.97E-05	-0.000100	-9.68E-07	
113	-0.0004000	-5.63E-05	-0.006073
-4.00E-05	-7.83E-05	-1.60E-06	
114	-0.000400	-5.81E-05	-0.005875
-4.87E-05	-0.000127	-3.31E-06	
115	-0.000401	-5.67E-05	-0.004945
-5.27E-05	-0.000228	-5.32E-06	
116	-0.000402	-4.98E-05	-0.003471
-4.76E-05	-0.000320	-6.20E-06	
117	-0.000403	-3.59E-05	-0.001711
-2.59E-05	-0.000353	-6.67E-06	
118	-0.000405	-1.71E-05	-6.42E-07
-3.02E-06	-0.000314	-5.72E-06	
119	-0.000407	-1.49E-05	-0.001167
-4.13E-06	-0.000262	-4.68E-06	
120	-0.000408	-2.54E-05	-0.003064
-3.03E-05	-0.000196	-3.10E-06	
121	-0.000412	-3.05E-05	-0.004913
-5.46E-05	-0.000150	-1.98E-06	
122	-0.000415	-3.28E-05	-0.006406
-6.75E-05	-0.000108	-1.59E-06	
123	-0.000417	-3.51E-05	-0.007255
-7.34E-05	-9.38E-05	-1.96E-06	
124	-0.000417	-3.47E-05	-0.007312
-7.49E-05	-0.000141	-3.26E-06	
125	-0.000417	-3.26E-05	-0.006563
-7.53E-05	-0.000223	-4.72E-06	
126	-0.000416	-2.83E-05	-0.005127
-6.84E-05	-0.000344	-5.80E-06	
127	-0.000416	-1.79E-05	-0.003273
-5.01E-05	-0.000394	-6.97E-06	
128	-0.000415	-2.23E-06	-0.001287
-1.40E-05	-0.000391	-6.62E-06	
129	-0.000415	-6.41E-06	-6.56E-07
-6.99E-06	-0.000345	-5.79E-06	
130	-0.000414	-2.37E-05	-0.001344
-7.84E-06	-0.000285	-4.68E-06	
131	-0.000412	-4.22E-05	-0.003453
-4.00E-05	-0.000209	-3.02E-06	
132	-0.000411	-5.31E-05	-0.005471
-6.24E-05	-0.000155	-1.83E-06	
133	-0.000410	-5.81E-05	-0.007094
-7.35E-05	-0.000106	-1.58E-06	
134	-0.000409	-5.90E-05	-0.007997
-7.70E-05	-0.000101	-2.10E-06	
135	-0.000408	-5.90E-05	-0.008022
-7.76E-05	-0.000169	-3.57E-06	
136	-0.000406	-5.74E-05	-0.007162
-7.47E-05	-0.000270	-5.15E-06	
137	-0.000405	-5.14E-05	-0.005563
-6.41E-05	-0.000383	-6.81E-06	
138	-0.000405	-3.93E-05	-0.003541
-4.17E-05	-0.000437	-7.64E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	-0.000403	-1.92E-05	-0.001394
-8.34E-06	-0.000427	-7.34E-06	
140	-0.000403	-2.50E-05	-6.55E-07
-7.59E-06	-0.000377	-6.57E-06	
141	-0.000402	-8.04E-06	-0.001326
-1.46E-05	-0.000313	-5.55E-06	
142	-0.000400	-3.08E-05	-0.003383
-5.26E-05	-0.000231	-4.01E-06	
143	-0.000398	-4.68E-05	-0.005328
-7.27E-05	-0.000174	-4.88E-06	
144	-0.000397	-5.72E-05	-0.006866
-8.12E-05	-0.000119	-2.22E-06	
145	-0.000395	-6.48E-05	-0.007689
-8.19E-05	-0.000116	-2.29E-06	
146	-0.000394	-7.13E-05	-0.007652
-8.08E-05	-0.000188	-3.35E-06	
147	-0.000394	-7.41E-05	-0.006766
-7.44E-05	-0.000288	-4.69E-06	
148	-0.000394	-7.18E-05	-0.005191
-5.98E-05	-0.000386	-5.96E-06	
149	-0.000395	-6.19E-05	-0.003249
-3.24E-05	-0.000423	-6.68E-06	
150	-0.000396	-4.26E-05	-0.001248
-4.53E-06	-0.000394	-6.24E-06	
151	-0.000397	-2.44E-05	-6.78E-07
-3.44E-06	-0.000331	-5.37E-06	
152	-0.000398	-1.62E-05	-0.002208
-2.75E-05	-0.000225	-3.82E-06	
153	-0.000398	-2.44E-05	-0.004571
-5.12E-05	-0.000138	-2.26E-06	
154	-0.000398	-3.16E-05	-0.006722
-5.81E-05	-6.68E-05	-1.07E-06	
155	-0.000398	-3.45E-05	-0.008362
-5.55E-05	-1.00E-05	-3.52E-07	
156	-0.000398	-3.48E-05	-0.009256
-4.82E-05	-6.11E-05	-7.10E-07	
157	-0.000397	-3.37E-05	-0.009267
-3.90E-05	-0.000174	-2.03E-06	
158	-0.000397	-3.20E-05	-0.008359
-2.91E-05	-0.000330	-4.17E-06	
159	-0.000397	-3.04E-05	-0.006593
-1.91E-05	-0.000479	-6.75E-06	
160	-0.000396	-2.90E-05	-0.004088
-9.88E-06	-0.000603	-8.70E-06	
161	-0.000396	-2.72E-05	-0.000994
-7.28E-06	-0.000678	-9.66E-06	
162	-0.000395	-2.66E-05	-3.02E-07
-7.27E-06	-0.000682	-9.72E-06	
163	-0.000265	-2.48E-05	-3.57E-05
-7.16E-05	-0.000113	-4.18E-05	
164	-0.000265	-3.99E-05	-0.000984
-4.89E-06	-0.000110	-3.35E-05	
165	-0.000265	-5.57E-05	-0.001900
-2.06E-05	-9.80E-05	-3.34E-05	
166	-0.000265	-6.63E-05	-0.002574
-3.72E-05	-7.71E-05	-3.13E-05	
167	-0.000265	-6.99E-05	-0.002914
-5.42E-05	-4.66E-05	-2.83E-05	
168	-0.000265	-6.63E-05	-0.002876
-7.05E-05	-2.71E-05	-2.64E-05	
169	-0.000265	-5.66E-05	-0.002479
-8.30E-05	-9.10E-05	-2.63E-05	
170	-0.000265	-4.32E-05	-0.001798
-8.63E-05	-0.000145	-2.48E-05	
171	-0.000265	-2.96E-05	-0.000939
-7.13E-05	-0.000177	-2.27E-05	
172	-0.000264	-2.29E-05	-2.25E-05
-2.68E-05	-0.000187	-1.79E-05	
173	-0.000263	-2.58E-05	-0.000651
-3.72E-05	-0.000182	-1.55E-05	
174	-0.000262	-3.71E-05	-0.001621
-6.93E-05	-0.000161	-1.33E-05	
175	-0.000261	-5.07E-05	-0.002556
-8.52E-05	-0.000132	-1.04E-05	
176	-0.000260	-6.26E-05	-0.003323
-9.12E-05	-9.94E-05	-1.15E-05	
177	-0.000260	-6.94E-05	-0.003773
-9.23E-05	-5.78E-05	-1.85E-05	
178	-0.000260	-6.97E-05	-0.003827
-9.46E-05	-4.67E-05	-2.80E-05	
179	-0.000260	-6.33E-05	-0.003468
-0.000100	-0.000100	-3.78E-05	
180	-0.000261	-5.12E-05	-0.002754
-9.95E-05	-0.000163	-4.51E-05	
181	-0.000261	-3.61E-05	-0.001811
-8.79E-05	-0.000200	-4.94E-05	
182	-0.000262	-2.11E-05	-0.000758
-5.59E-05	-0.000214	-4.68E-05	
183	-0.000262	-1.47E-05	-2.41E-05
-2.02E-05	-0.000211	-4.25E-05	
184	-0.000262	-1.55E-05	-0.000813
-4.43E-05	-0.000200	-4.44E-05	
185	-0.000262	-2.85E-05	-0.001979
-7.85E-05	-0.000171	-4.38E-05	
186	-0.000262	-4.37E-05	-0.003067
-9.35E-05	-0.000134	-3.88E-05	
187	-0.000263	-5.64E-05	-0.003940
-9.79E-05	-9.35E-05	-3.33E-05	
188	-0.000263	-6.36E-05	-0.004430
-9.64E-05	-5.77E-05	-2.70E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	-0.000264	-6.37E-05	-0.004451
-9.72E-05	-6.93E-05	-2.12E-05	
190	-0.000264	-5.67E-05	-0.003998
-0.000100	-0.000139	-1.71E-05	
191	-0.000264	-4.41E-05	-0.003145
-9.59E-05	-0.000204	-1.96E-05	
192	-0.000265	-2.91E-05	-0.002053
-8.10E-05	-0.000236	-2.28E-05	
193	-0.000265	-1.52E-05	-0.000854
-4.65E-05	-0.000245	-2.33E-05	
194	-0.000265	-1.49E-05	-2.39E-05
-1.94E-05	-0.000238	-2.25E-05	
195	-0.000266	-2.07E-05	-0.000791
-5.58E-05	-0.000223	-2.52E-05	
196	-0.000266	-3.51E-05	-0.001902
-9.01E-05	-0.000189	-2.84E-05	
197	-0

-6.30E-05	-0.000241	-2.29E-05	
228	-0.000356	-1.95E-05	-0.002510
-8.54E-05	-0.000188	-1.94E-05	
229	-0.000358	-2.15E-05	-0.004049
-9.08E-05	-0.000145	-1.58E-05	
230	-0.000359	-2.20E-05	-0.005298
-9.16E-05	-0.000105	-1.57E-05	
231	-0.000360	-2.34E-05	-0.006018
-9.13E-05	-8.03E-05	-2.47E-05	
232	-0.000360	-2.32E-05	-0.006075
-9.32E-05	-0.000106	-3.63E-05	
233	-0.000329	-2.14E-05	-0.005454
-0.000100	-0.000177	-4.98E-05	
234	-0.000360	-1.84E-05	-0.004262
-0.000106	-0.000274	-5.99E-05	
235	-0.000359	-1.15E-05	-0.002719
-0.000106	-0.000326	-6.57E-05	
236	-0.000359	-1.48E-06	-0.001058
-8.62E-05	-0.000329	-6.18E-05	
237	-0.000358	-1.02E-05	-8.06E-06
-5.91E-05	-0.000300	-5.48E-05	
238	-0.000358	-2.07E-05	-0.001113
-7.18E-05	-0.000259	-5.47E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	-0.000357	-3.24E-05	-0.002894
-9.57E-05	-0.000198	-5.24E-05	
240	-0.000357	-3.97E-05	-0.004595
-0.000100	-0.000149	-4.65E-05	
241	-0.000356	-4.33E-05	-0.005966
-9.84E-05	-0.000102	-4.05E-05	
242	-0.000356	-4.40E-05	-0.006734
-9.55E-05	-8.59E-05	-3.40E-05	
243	-0.000356	-4.43E-05	-0.006758
-9.62E-05	-0.000134	-2.80E-05	
244	-0.000356	-4.32E-05	-0.006031
-0.000100	-0.000225	-2.29E-05	
245	-0.000355	-3.91E-05	-0.004684
-0.000102	-0.000323	-2.72E-05	
246	-0.000355	-3.11E-05	-0.002980
-9.88E-05	-0.000367	-3.11E-05	
247	-0.000354	-1.84E-05	-0.001163
-7.43E-05	-0.000363	-3.12E-05	
248	-0.000354	-7.14E-06	-8.05E-06
-5.85E-05	-0.000328	-2.89E-05	
249	-0.000353	-5.16E-06	-0.001093
-8.65E-05	-0.000283	-3.07E-05	
250	-0.000353	-2.06E-05	-0.002822
-0.000109	-0.000216	-3.29E-05	
251	-0.000352	-3.24E-05	-0.004449
-0.000111	-0.000166	-3.32E-05	
252	-0.000351	-4.08E-05	-0.005737
-0.000107	-0.000113	-3.36E-05	
253	-0.000351	-4.84E-05	-0.006425
-0.000101	-0.000100	-3.46E-05	
254	-0.000350	-5.42E-05	-0.006390
-0.000101	-0.000155	-3.77E-05	
255	-0.000350	-5.73E-05	-0.005639
-0.000102	-0.000246	-4.50E-05	
256	-0.000351	-5.66E-05	-0.004316
-0.000102	-0.000328	-5.17E-05	
257	-0.000351	-5.08E-05	-0.002690
-9.59E-05	-0.000354	-5.52E-05	
258	-0.000351	-3.90E-05	-0.001016
-7.05E-05	-0.000328	-4.96E-05	
259	-0.000352	-2.72E-05	-6.61E-06
-7.03E-05	-0.000280	-4.58E-05	
260	-0.000352	-1.28E-05	-0.001852
-0.000105	-0.000200	-4.34E-05	
261	-0.000353	-1.48E-05	-0.003852
-0.000105	-0.000127	-3.78E-05	
262	-0.000353	-1.89E-05	-0.005668
-9.16E-05	-6.33E-05	-3.30E-05	
263	-0.000353	-2.16E-05	-0.007052
-7.61E-05	-9.35E-06	-2.87E-05	
264	-0.000353	-2.28E-05	-0.007796
-6.07E-05	-4.77E-05	-2.67E-05	
265	-0.000352	-2.30E-05	-0.007784
-4.60E-05	-0.000155	-3.07E-05	
266	-0.000352	-2.27E-05	-0.006986
-3.26E-05	-0.000296	-3.90E-05	
267	-0.000352	-2.25E-05	-0.005461
-1.97E-05	-0.000419	-5.02E-05	
268	-0.000352	-2.20E-05	-0.003327
-8.16E-06	-0.000513	-6.21E-05	
269	-0.000351	-2.18E-05	-0.000731
-5.24E-05	-0.000551	-4.79E-05	
270	-0.000351	-2.18E-05	-1.09E-05
-0.000158	-0.000542	-5.81E-05	
271	-0.000191	-2.53E-06	.000000
-7.27E-06	-0.000106	-4.42E-06	
272	-0.000398	-2.24E-05	.000000
-9.83E-06	-0.000157	-3.73E-06	
273	.000000	.000000	.000000
-9.40E-06	-0.000182	-3.72E-06	
274	-0.000423	-1.77E-06	.000000
-5.75E-06	-0.000208	-3.92E-06	
275	-0.000282	-8.21E-06	.000000
-1.18E-05	-0.000169	-4.04E-06	
276	-0.000333	-3.28E-06	.000000
-1.25E-06	-0.000271	-9.35E-07	
277	-0.000581	-1.81E-05	.000000
-1.50E-05	-0.000123	-1.59E-06	
278	-0.000552	-3.05E-05	.000000
-1.76E-05	-0.000226	-7.61E-07	
279	.000000	.000000	.000000
-1.02E-05	-0.000253	-7.91E-07	
280	-0.000572	-2.32E-06	.000000
-8.20E-06	-0.000281	-1.28E-06	
281	-0.000436	-9.78E-06	.000000
-6.62E-06	-0.000237	-3.67E-07	
282	-0.000421	-2.03E-05	.000000
-4.67E-06	-0.000433	-4.45E-07	
283	-0.000632	7.36E-21	.000000
-3.17E-05	-0.000139	-1.17E-06	
284	-0.000729	4.59E-21	.000000
-6.45E-05	-0.000309	-5.72E-06	
285	-2.82E-07	-9.54E-06	.000000
-1.67E-05	-0.000345	-5.79E-06	
286	-0.000744	-0.000136	.000000
1.61E-21	-0.000368	-6.57E-06	
287	-0.000602	-6.73E-05	.000000
-3.54E-21	-0.000327	-5.37E-06	
288	-0.000517	-6.86E-05	.000000
3.03E-21	-0.000673	-9.72E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DL-G3-2 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000455	2.65E-05	4.53E-08
4.62E-05	0.000347	1.49E-06	
2	0.000458	2.27E-05	0.000866
0.000123	0.000337	1.32E-06	
3	0.000461	2.76E-05	0.001747
0.000217	0.000288	1.20E-06	
4	0.000462	3.11E-05	0.002469
0.000285	0.000233	1.44E-06	
5	0.000463	3.35E-05	0.002954
0.000319	8.96E-05	2.47E-06	
6	0.000462	3.59E-05	0.003124
0.000314	2.57E-06	4.26E-06	
7	0.000460	3.60E-05	0.002918
0.000272	7.44E-05	5.96E-06	
8	0.000458	3.18E-05	0.002311
0.000201	0.000157	7.75E-06	
9	0.000456	2.52E-05	0.001311
0.000117	0.000232	8.24E-06	
10	0.000453	2.36E-05	7.74E-08
4.65E-05	0.000287	5.52E-06	
11	0.000453	1.98E-05	0.001065
5.77E-05	0.000313	4.24E-06	
12	0.000452	2.23E-05	0.002482
0.000145	0.000326	2.54E-06	
13	0.000451	2.72E-05	0.003665
0.000239	0.000299	1.21E-06	
14	0.000451	2.92E-05	0.004528
0.000316	0.000226	1.12E-06	
15	0.000450	3.03E-05	0.004989
0.000363	0.000124	2.16E-06	
16	0.000450	3.18E-05	0.005149
0.000370	7.79E-05	3.82E-06	
17	0.000449	3.22E-05	0.004838
0.000336	0.000126	5.56E-06	
18	0.000448	2.99E-05	0.004044
0.000267	0.000202	7.29E-06	
19	0.000447	2.25E-05	0.002829
0.000177	0.000280	8.52E-06	
20	0.000447	1.28E-05	0.001255
8.29E-05	0.000344	7.99E-06	
21	0.000447	1.28E-05	8.76E-08
3.94E-05	0.000372	5.86E-06	
22	0.000448	1.23E-05	0.001198
6.63E-05	0.000386	4.59E-06	
23	0.000450	2.04E-05	0.002759
0.000160	0.000380	2.83E-06	
24	0.000452	2.88E-05	0.004031
0.000255	0.000333	1.41E-06	
25	0.000453	3.30E-05	0.004934
0.000333	0.000236	1.21E-06	
26	0.000454	3.43E-05	0.005362
0.000377	0.000121	2.23E-06	
27	0.000455	3.47E-05	0.005417
0.000377	6.59E-05	3.94E-06	
28	0.000457	3.43E-05	0.005013
0.000335	0.000154	5.69E-06	
29	0.000458	3.09E-05	0.004118
0.000258	0.000226	7.34E-06	
30	0.000459	2.32E-05	0.002833
0.000162	0.000293	8.40E-06	
31	0.000460	1.50E-05	0.001238
6.75E-05	0.000344	7.69E-06	
32	0.000461	1.40E-05	9.39E-08
3.91E-05	0.000362	5.50E-06	
33	0.000462	1.18E-05	0.001358
8.33E-05	0.000367	4.19E-06	
34	0.000463	2.09E-05	0.003127
0.000179	0.000348	2.19E-06	
35	0.000464	2.70E-05	0.004577
0.000271	0.000292	6.06E-07	
36	0.000465	2.71E-05	0.005616
0.000344	0.000191	7.32E-07	
37	0.000466	2.38E-05	0.006158
0.000380	8.54E-05	2.15E-06	
38	0.000467	1.93E-05	0.006287
0.000373	9.41E-05	4.16E-06	
39	0.000467	1.50E-05	0.005834
0.000324	0.000177	6.25E-06	
40	0.000468	1.04E-05	0.004808
0.000244	0.000261	8.10E-06	
41	0.000468	4.68E-06	0.003322
0.000150	0.000343	9.08E-06	
42	0.000468	3.96E-06	0.001458
6.39E-05	0.000404	8.29E-06	
43	0.000468	1.34E-05	7.71E-08
5.95E-05	0.000426	5.51E-06	
44	0.000467	2.69E-05	0.001523
0.000149	0.000428	3.38E-06	
45	0.000465	3.36E-05	0.002758
0.000257	0.000390	1.47E-06	
46	0.000464	3.44E-05	0.003610
0.000357	0.000306	4.64E-07	
47	0.000463	3.11E-05	0.004057
0.000429	0.000178	1.10E-06	
48	0.000462	2.57E-05	0.004107
0.000462	6.22E-05	2.60E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000463	1.97E-05	0.003805
0.000453	9.77E-05	4.62E-06	
50	0.000465	1.40E-05	0.003211
0.000402	0.000148	7.02E-06	
51	0.000468	9.23E-06	0.002392
0.000314	0.000185	9.11E-06	
52	0.000471	6.44E-06	0.001413
0.000193	0.000210	1.07E-05	
53	0.000475	1.09E-05	0.000333
5.76E-05	0.000222	1.19E-05	
54	0.000477	1.75E-05	4.79E-08
3.40E-05	0.000557	1.20E-06	
55	0.000577	4.53E-05	2.63E-08
5.46E-05	0.000567	4.23E-06	
56	0.000576	4.27E-05	0.000972
0.000159	0.000542	3.35E-06	
57	0.000576	4.31E-05	0.001964
0.000320	0.000446	1.85E-06	
58	0.000576	4.46E-05	0.002791
0.000438	0.000303	1.07E-06	
59	0.000576	4.50E-05	0.003373
0.000498	0.000134	7.35E-07	
60	0.000576	4.35E-05	0.003623
0.000493	1.56E-05	8.50E-07	
61	0.000576	4.01E-05	0.003463
0.000429	6.76E-05	1.11E-06	
62	0.000577	3.59E-05	0.002834
0.000318	0.000170	1.63E-06	
63	0.000577	3.10E-05	0.001681
0.000183	0.000280	1.96E-06	
64	0.000578	2.51E-05	4.14E-08
6.29E-05	0.000392	1.66E-06	
65	0.000579	2.11E-05	0.001365
8.95E-05	0.000456	2.60E-06	
66	0.000579	1.53E-05	0.003032
0.000224	0.000490	2.51E-06	
67	0.000579	1.07E-05	0.004327
0.000366	0.000450	1.90E-06	
68	0.000579	9.44E-06	0.005229
0.000483	0.000339	1.56E-06	
69	0.000580	9.49E-06	0.005678
0.000553	0.000201	1.41E-06	
70	0.000580	1.00E-05	0.005847
0.000564	0.000114	1.31E-06	
71	0.000580	8.95E-06	0.005544
0.000514	0.000516	1.26E-06	
72	0.000580	7.21E-06	0.004716
0.000410	0.000220	1.60E-06	
73	0.000580	5.38E-06	0.003391
0.000273	0.000314	2.05E-06	
74	0.000580	6.16E-06	0.001564
0.000127	0.000416	2.28E-06	
75	0.000579	1.12E-05	6.27E-08
4.49E-05	0.000483	2.20E-06	
76	0.000579	1.60E-05	0.001507
0.000102	0.000532	3.17E-06	
77	0.000579	2.26E-05	0.003324
0.000247	0.000543	2.98E-06	
78	0.000579	3.07E-05	0.004713
0.000391	0.000482	2.21E-06	
79	0.000579	3.78E-05	0.005656
0.000508	0.000346	1.68E-06	
80	0.000579	4.25E-05	0.006083
0.000573	0.000198	1.52E-06	
81	0.000579	4.34E-05	0.006141
0.000585	0.000128	1.44E-06	
82	0.000579	4.04E-05	0.005742
0.000512	0.000166	1.35E-06	
83	0.000579	3.39E-05	0.004809
0.000397	0.000246	1.66E-06	
84	0.000579	2.56E-05	0.003408
0.000253	0.000330	2.04E-06	
85	0.000578	1.74E-05	0.001552
0.000106	0.000419	2.24E-06	
86	0.000578	1.10E-05	7.27E-08
4.20E-05	0.000475	2.32E-06	
87	0.000578	4.05E-06	0.001676
0.000124	0.000512	3.26E-06	
88	0.000578	4.59E-06	0.003710
0.000273	0.000507	3.09E-06	
89	0.000577	9.95E-06	0.005282
0.000414	0.000434	2.50E-06	
90	0.000577	1.77E-05	0.006368
0.000522	0.000291	2.09E-06	
91	0.000576	2.41E-05	0.006888
0.000577	0.000158	1.68E-06	
92	0.000576	2.86E-05	0.007051
0.000566	0.000123	1.32E-06	
93	0.000576	3.05E-05	0.006608
0.000492	0.000190	1.18E-06	
94	0.000576	3.04E-05	0.005547
0.000371	0.000283	1.21E-06	
95	0.000576	2.89E-05	0.003940
0.000226	0.000385	1.82E-06	
96	0.000576	2.78E-05	0.001798
8.98E-05	0.000486	2.37E-06	
97	0.000576	2.66E-05	3.64E-08
7.11E-05	0.000549	2.19E-06	
98	0.000577	2.14E-05	0.001901
0.000210	0.000594	3.18E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	0.000578	1.59E-05	0.003298
0.000372	0.000560	3.07E-06	
100	0.000579	1.36E-05	0.004182
0.000517	0.000449	2.97E-06	
101	0.000580	1.61E-05	0.004594
0.000620	0.000276	2.86E-06	
102	0.000580	2.28E-05	0.004577
0.000668	0.000137	2.51E-06	
103	0.000581	2.90E-05	0.004194
0.000655	0.000120	1.99E-06	
104	0.000581	3.39E-05	0.003515
0.000579	0.000167	1.57E-06	
105	0.000581	3.61E-05	0.002608
0.000443	0.000204	1.51E-06	
106	0.000581	3.86E-05	0.001539
0.000254	0.000229	2.10E-06	
107	0.000581	4.46E-05	0.000363
5.68E-05	0.000242	3.01E-06	
108	0.000581	4.72E-05	2.27E-08
5.42E-05	0.000242	3.13E-06	
109	0.000702	7.12E-05	4.02E-08
5.36E-05	0.000799	1.15E-05	
110	0.000698	0.000105	0.001080
0.000141	0.000740	1.08E-05	
111	0.000695	0.000143	0.002184
0.000246	0.000581	8.55E-06	
112	0.000693	0.000172	0.003116
0.000325	0.000374	5.18E-06	
113	0.000692	0.000183	0.003794
0.000366	0.000161	2.06E-06	
114	0.000693	0.000174	0.004125
0.000365	2.75E-05	6.93E-07	
115	0.000696	0.000148	0.004013
0.000327	6.70E-05	1.36E-06	
116	0.000699	0.000110	0.003364
0.000253	0.000189	3.10E-06	
117	0.000703	6.96E-05	0.002058
0.000159	0.000334	5.34E-06	
118	0.000706	3.85E-05	6.13E-08
8.06E-05	0.000501	7.73E-06	
119	0.000708	3.91E-05	0.001672
8.23E-05	0.000600	9.18E-06	
120	0.000710	6.39E-05	0.003590
0.000168	0.000647	1.01E-05	
121	0.000712	9.64E-05	0.004997
0.000269	0.000678	9.36E-06	
122	0.000713	0.000127	0.005934
0.000352	0.000436	7.40E-06	
123	0.000714	0.000148	0.006380
0.000403	0.000272	4.99E-06	
124	0.000715	0.000150	0.006549
0.000414	0.000154	3.02E-06	
125	0.000716	0.000132	0.006253
0.000384	0.000149	2.29E-06	
126	0.000717	9.90E-05	0.005394
0.000314	0.000240	2.73E-06	
127	0.000717	5.70E-05	0.003960
0.000217	0.000351	4.36E-06	
128	0.000717	1.80E-05	0.001878
0.000111	0.000492	6.74E-06	
129	0.000717	2.28E-05	9.47E-08
6.99E-05	0.000598	8.45E-06	
130	0.000715	5.15E-05	0.001823
8.99E-05	0.000681	9.84E-06	
131	0.000713	9.92E-05	0.003898
0.000189	0.000707	1.06E-05	
132	0.000710	0.000147	0.005401
0.000291	0.000630	9.61E-06	
133	0.000709	0.000185	0.006382
0.000373	0.000454	7.57E-06	
134	0.000708	0.000206	0.006805
0.000418	0.000281	5.18E-06	
135	0.000707	0.000206	0.006867
0.000419	0.000166	3.21E-06	
136	0.000706	0.000185	0.006475
0.000376	0.000178	2.56E-06	
137	0.000704	0.000146	0.005506
0.000295	0.000265	3.11E-06	
138	0.000703	9.72E-05	0.003991
0.000192	0.000367	4.72E-06	
139	0.000701	4.69E-05	0.001873
9.17E-05	0.000496	7.13E-06	
140	0.000700	1.64E-05	1.07E-07
6.97E-05	0.000592	8.88E-06	
141	0.000699	2.61E-05	0.001999
0.000110	0.000664	1.04E-06	
142	0.000697	7.24E-05	0.004301
0.000217	0.000675	1.12E-05	
143	0.000696	0.000122	0.005993
0.000317	0.000587	1.03E-05	
144	0.000694	0.000164	0.007122
0.000390	0.000407	7.80E-06	
145	0.000692	0.000190	0.007636
0.000423	0.000248	5.00E-06	
146	0.000691	0.000196	0.007813
0.000413	0.000160	2.64E-06	
147	0.000690	0.000181	0.007382
0.000360	0.000199	1.72E-06	
148	0.000690	0.000149	0.006288
0.000274	0.000301	2.10E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000690	0.000108	0.004563
0.000172	0.000421	4.30E-06	
150	0.000691	6.66E-05	0.002143
9.11E-05	0.000567	7.19E-06	
151	0.000692	4.15E-05	5.82E-08
9.77E-05	0.000674	9.20E-06	
152	0.000694	4.19E-05	0.002286
0.000193	0.000772	1.15E-05	
153	0.000698	8.55E-05	0.003844
0.000311	0.000749	1.23E-05	
154	0.000701	0.000138	0.004758
0.000413	0.000618	1.14E-05	
155	0.000704	0.000185	0.005133
0.000479	0.000408	9.03E-06	
156	0.000706	0.000217	0.005047
0.000503	0.000238	6.00E-06	
157	0.000707	0.000230	0.004583
0.000484	0.000151	3.11E-06	
158	0.000706	0.000220	0.003818
0.000430	0.000185	1.71E-06	
159	0.000704	0.000190	0.002824
0.000336	0.000223	1.85E-06	
160	0.000700	0.000142	0.001664
0.000207	0.000250	1.98E-06	
161	0.000694	7.31E-05	0.000392
6.12E-05	0.000264	2.06E-06	
162	0.000693	6.90E-05	3.18E-08
3.24E-05	0.000265	2.07E-06	
163	0.000517	2.85E-05	6.10E-05
3.66E-05	0.000428	9.50E-05	
164	0.000518	3.12E-05	0.000921
0.000121	0.000427	7.31E-05	
165	0.000519	3.37E-05	0.001850
0.000303	0.000364	6.80E-05	
166	0.000520	3.54E-05	0.002618
0.000417	0.000256	5.72E-05	
167	0.000520	3.62E-05	0.003144
0.000466	0.000117	4.56E-05	
168	0.000520	3.61E-05	0.003346
0.000455	1.06E-05	3.76E-05	
169	0.000519	3.49E-05	0.003155
0.000386	7.46E-05	3.47E-05	
170	0.000518	3.21E-05	0.002533
0.000273	0.000164	3.31E-05	
171	0.000516	2.75E-05	0.001465
0.000133	0.000270	1.36E-05	
172	0.000515	2.26E-05	3.69E-05
1.38E-05	0.000330	3.21E-05	
173	0.000515	1.99E-05	0.001192
4.33E-05	0.000376	3.29E-05	
174	0.000515	1.75E-05	0.002721
0.000185	0.000373	3.51E-05	
175	0.000515	1.65E-05	0.003959
0.000331	0.000372	3.11E-05	
176	0.000515	1.66E-05	0.004844
0.000446	0.000282	2.78E-05	
177	0.000515	1.74E-05	0.005299
0.000512	0.000162	3.34E-05	
178	0.000515	1.85E-05	0.005467
0.000521	9.62E-05	4.19E-05	
179	0.000515	1.92E-05	0.005155
0.000472	0.000135	5.20E-05	
180	0.000514	1.87E-05	0.004341
0.000368	0.000214	6.22E-05	
181	0.000514	1.57E-05	0.003072
0.000227	0.000277	7.25E-05	
182	0.000514	8.56E-06	0.001385
7.83E-05	0.000376	7.56E-05	
183	0.000515	6.33E-06	3.81E-05
6.47E-06	0.000420	7.42E-05	
184	0.000515	9.74E-06	0.001329
5.62E-05	0.000451	8.33E-05	
185	0.000515	1.56E-05	0.003004
0.000206	0.000454	8.96E-05	
186	0.000516	2.05E-05	0.004333
0.000354	0.000403	8.25E-05	
187	0.000516	2.44E-05	0.005259
0.000469	0.000287	6.85E-05	
188	0.000517	2.75E-05	0.005691
0.000529	0.000156	4.82E-05	
189	0.000517	2.81E-05	0.005747
0.000530	0.000112	2.86E-05	
190	0.000517	2.75E-05	0.005341
0.000472	0.000164	1.65E-05	
191	0.000517	2.49E-05	0.004423
0.000358	0.000240	1.92E-05	
192	0.000518	1.98E-05	0.003081
0.000211	0.000315	2.60E-05	
193	0.000519	1.27E-05	0.001369
6.01E-05	0.000380	3.32E-05	
194	0.000519	7.44E-06	3.78E-05
5.44E-06	0.000414	3.61E-05	
195	0.000519	7.62E-06	0.001494
7.70E-05	0.000433	4.46E-05	
196	0.000520	1.30E-05	0.003381
0.000228	0.000421	5.31E-05	
197	0.000520	1.53E-05	0.004890
0.000373	0.000357	5.31E-05	
198	0.000520	1.44E-05	0.005955
0.000482	0.000236	5.15E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000520	1.19E-05	0.006492
0.000532	0.000116	4.78E-05	
200	0.000520	9.65E-06	0.006635
0.000523	0.000110	4.86E-05	
201	0.000520	8.20E-06	0.006181
0.000456	0.000189	5.30E-05	
202	0.000521	7.19E-06	0.005133
0.000337	0.000277	6.21E-05	
203	0.000521	5.92E-06	0.003587
0.000188	0.000369	6.94E-05	
204	0.000521	6.65E-06	0.001599
4.35E-05	0.000446	6.96E-05	
205	0.000521	1.39E-05	4.08E-05
1.37E-05	0.000487	7.31E-05	
206	0.000521	2.28E-05	0.001680
0.000156	0.000507	8.18E-05	
207	0.000520	2.58E-05	0.002988
0.000323	0.000468	7.85E-

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000638	7.53E-06	0.001860
0.000101	0.000762	6.26E-05	
250	0.000637	3.54E-05	0.004043
0.000264	0.000800	7.45E-05	
251	0.000636	6.99E-05	0.005678
0.000418	0.000729	7.38E-05	
252	0.000635	9.88E-05	0.006782
0.000533	0.000569	6.80E-05	
253	0.000634	0.000117	0.007292
0.000583	0.000430	6.12E-05	
254	0.000634	0.000123	0.007467
0.000572	0.000362	5.70E-05	
255	0.000633	0.000115	0.007036
0.000500	0.000394	6.17E-05	
256	0.000633	9.67E-05	0.005963
0.000373	0.000481	7.01E-05	
257	0.000633	7.15E-05	0.004296
0.000220	0.000586	7.88E-05	
258	0.000634	4.64E-05	0.002002
6.75E-05	0.000627	7.85E-05	
259	0.000635	3.18E-05	7.85E-05
5.03E-05	0.000783	8.80E-05	
260	0.000637	1.84E-05	0.002126
0.000201	0.000888	0.000104	
261	0.000639	3.65E-05	0.003611
0.000380	0.000967	0.000103	
262	0.000641	7.17E-05	0.004507
0.000532	0.000747	9.18E-05	
263	0.000643	0.000105	0.004893
0.000637	0.000557	7.40E-05	
264	0.000644	0.000129	0.004833
0.000686	0.000411	5.77E-05	
265	0.000645	0.000140	0.004403
0.000674	0.000352	4.91E-05	
266	0.000644	0.000137	0.003674
0.000602	0.000371	4.75E-05	
267	0.000642	0.000120	0.002718
0.000468	0.000392	4.82E-05	
268	0.000639	9.27E-05	0.001597
0.000268	0.000434	6.49E-05	
269	0.000636	6.31E-05	0.000366
3.69E-05	0.000264	3.04E-05	
270	0.000635	5.25E-05	9.62E-05
4.65E-05	0.000253	3.72E-05	
271	0.000308	6.41E-06	.000000
5.40E-05	0.000345	1.49E-06	
272	0.000172	4.26E-05	.000000
5.48E-05	0.000283	5.52E-06	
273	.000000	.000000	.000000
4.81E-05	0.000370	5.86E-06	
274	0.000932	2.90E-06	.000000
4.09E-05	0.000362	5.50E-06	
275	0.000458	1.98E-05	.000000
8.60E-05	0.000421	5.51E-06	
276	0.000988	9.73E-06	.000000
3.29E-05	0.000223	1.20E-05	
277	0.000421	5.48E-05	.000000
9.28E-05	0.000559	4.23E-06	
278	0.000992	5.58E-05	.000000
6.71E-05	0.000588	1.66E-06	
279	.000000	.000000	.000000
5.12E-05	0.000481	2.20E-06	
280	0.001175	3.70E-06	.000000
4.48E-05	0.000475	2.32E-06	
281	0.000656	1.47E-05	.000000
4.88E-05	0.000551	2.19E-06	
282	0.001395	5.51E-06	.000000
3.43E-05	0.000245	3.13E-06	
283	0.000553	7.20E-05	.000000
0.000218	0.000765	1.15E-05	
284	0.001210	2.65E-05	.000000
0.000168	0.000468	7.73E-06	
285	2.71E-06	9.15E-05	.000000
8.43E-05	0.000595	8.47E-06	
286	0.001377	0.000341	.000000
2.23E-05	0.000594	8.88E-06	
287	0.000837	0.000189	.000000
2.24E-05	0.000680	9.20E-06	
288	0.001722	0.000291	.000000
5.14E-05	0.000270	2.07E-06	

COMB DL-G3-2 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000431	-5.70E-05	-1.01E-08
-2.02E-05	-0.000193	-1.16E-05	
2	-0.000431	-9.62E-05	-0.001502
-2.04E-05	-0.000189	-1.03E-05	
3	-0.000431	-0.000136	-0.002975
-2.94E-05	-0.000166	-7.20E-06	
4	-0.000431	-0.000162	-0.004067
-4.25E-05	-0.000128	-4.65E-06	
5	-0.000431	-0.000171	-0.004633
-5.78E-05	-7.40E-05	-2.37E-06	
6	-0.000431	-0.000164	-0.004594
-7.14E-05	-4.45E-05	-8.53E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000431	-0.000143	-0.003977
-7.88E-05	-0.000150	-3.88E-07	
8	-0.000431	-0.000110	-0.002898
-7.46E-05	-0.000236	-1.62E-06	
9	-0.000429	-7.61E-05	-0.001514
-5.13E-05	-0.000287	-3.80E-06	
10	-0.000428	-6.00E-05	-2.13E-08
-8.82E-06	-0.000305	-5.70E-06	
11	-0.000426	-6.75E-05	-0.001040
-1.50E-05	-0.000300	-7.98E-06	
12	-0.000424	-9.72E-05	-0.002608
-5.23E-05	-0.000268	-8.57E-06	
13	-0.000421	-0.000133	-0.004114
-7.88E-05	-0.000221	-7.39E-06	
14	-0.000419	-0.000162	-0.005349
-9.42E-05	-0.000162	-5.66E-06	
15	-0.000417	-0.000179	-0.006079
-0.000102	-9.58E-05	-3.82E-06	
16	-0.000417	-0.000179	-0.006173
-0.000105	-7.55E-05	-1.99E-06	
17	-0.000417	-0.000163	-0.005606
-0.000107	-5.00E-05	-4.25E-07	
18	-0.000418	-0.000133	-0.004462
-9.92E-05	-0.000263	-9.54E-07	
19	-0.000419	-9.45E-05	-0.002943
-7.78E-05	-0.000324	-2.35E-06	
20	-0.000419	-5.82E-05	-0.001228
-3.79E-05	-0.000349	-4.20E-06	
21	-0.000419	-4.72E-05	-2.49E-08
-1.07E-05	-0.000349	-5.59E-06	
22	-0.000420	-5.23E-05	-0.001324
-2.41E-05	-0.000335	-7.86E-06	
23	-0.000422	-8.46E-05	-0.003237
-6.41E-05	-0.000289	-8.52E-06	
24	-0.000423	-0.000122	-0.005010
-8.96E-05	-0.000229	-7.37E-06	
25	-0.000425	-0.000152	-0.006428
-0.000103	-0.000160	-5.66E-06	
26	-0.000426	-0.000169	-0.007226
-0.000107	-9.64E-05	-3.85E-06	
27	-0.000428	-0.000168	-0.007263
-0.000108	-0.000110	-2.10E-06	
28	-0.000429	-0.000152	-0.006531
-0.000104	-0.000223	-1.07E-06	
29	-0.000430	-0.000122	-0.005148
-9.16E-05	-0.000328	-1.27E-06	
30	-0.000431	-8.47E-05	-0.003368
-6.59E-05	-0.000385	-2.70E-06	
31	-0.000432	-5.27E-05	-0.001398
-2.51E-05	-0.000403	-4.52E-06	
32	-0.000433	-4.78E-05	-2.19E-08
-1.11E-05	-0.000397	-5.97E-06	
33	-0.000434	-5.73E-05	-0.001281
-3.92E-05	-0.000378	-8.29E-06	
34	-0.000436	-9.45E-05	-0.003098
-8.13E-05	-0.000324	-8.77E-06	
35	-0.000438	-0.000134	-0.004743
-0.000105	-0.000261	-7.34E-06	
36	-0.000440	-0.000163	-0.006021
-0.000115	-0.000181	-5.73E-06	
37	-0.000441	-0.000177	-0.006687
-0.000115	-0.000111	-3.94E-06	
38	-0.000442	-0.000174	-0.006630
-0.000112	-0.000132	-2.37E-06	
39	-0.000443	-0.000155	-0.005867
-0.000105	-0.000238	-1.59E-06	
40	-0.000443	-0.000124	-0.004537
-8.72E-05	-0.000321	-1.99E-06	
41	-0.000442	-8.88E-05	-0.002901
-5.72E-05	-0.000354	-3.55E-06	
42	-0.000441	-7.08E-05	-0.001171
-1.64E-05	-0.000348	-5.21E-06	
43	-0.000440	-7.76E-05	-2.66E-08
-1.05E-05	-0.000327	-5.58E-06	
44	-0.000440	-0.000104	-0.002176
-5.42E-05	-0.000277	-7.75E-06	
45	-0.000440	-0.000136	-0.004312
-8.04E-05	-0.000205	-7.67E-06	
46	-0.000440	-0.000167	-0.006188
-8.71E-05	-0.000124	-6.55E-06	
47	-0.000441	-0.000190	-0.007579
-8.13E-05	-4.20E-05	-5.47E-06	
48	-0.000442	-0.000200	-0.008278
-6.92E-05	-1.93E-05	-3.98E-06	
49	-0.000442	-0.000194	-0.008173
-5.47E-05	-0.000155	-2.57E-06	
50	-0.000443	-0.000173	-0.007252
-3.99E-05	-0.000308	-1.87E-06	
51	-0.000443	-0.000138	-0.005601
-2.64E-05	-0.000431	-1.62E-06	
52	-0.000444	-9.36E-05	-0.003386
-1.66E-05	-0.000514	-1.21E-06	
53	-0.000444	-4.77E-05	-0.000804
-1.64E-05	-0.000545	-1.28E-06	
54	-0.000444	-3.77E-05	-9.17E-09
-1.91E-05	-0.000543	-1.29E-06	
55	-0.000551	-8.91E-05	-1.82E-07
-3.61E-05	-0.000220	-2.20E-06	
56	-0.000550	-7.56E-05	-0.002455
-9.13E-06	-0.000213	-1.89E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000550	-6.89E-05	-0.004779
-2.78E-05	-0.000189	-1.35E-06	
58	-0.000550	-6.77E-05	-0.006426
-5.08E-05	-0.000151	-1.03E-06	
59	-0.000550	-6.73E-05	-0.007208
-7.50E-05	-9.94E-05	-8.86E-07	
60	-0.000549	-6.70E-05	-0.007041
-9.72E-05	-0.000116	-1.14E-06	
61	-0.000550	-6.67E-05	-0.005986
-0.000113	-0.000254	-1.62E-06	
62	-0.000550	-6.73E-05	-0.004261
-0.000113	-0.000373	-2.50E-06	
63	-0.000550	-6.93E-05	-0.002150
-8.39E-05	-0.000428	-3.19E-06	
64	-0.000551	-6.90E-05	-4.23E-07
-2.11E-05	-0.000412	-1.81E-06	
65	-0.000552	-6.81E-05	-0.001468
-3.08E-05	-0.000373	-1.83E-06	
66	-0.000552	-5.41E-05	-0.003786
-8.21E-05	-0.000306	-1.86E-06	
67	-0.000552	-4.73E-05	-0.006038
-0.000113	-0.000242	-1.75E-06	
68	-0.000553	-4.50E-05	-0.007872
-0.000127	-0.000176	-1.54E-06	
69	-0.000553	-4.43E-05	-0.008934
-0.000133	-0.000123	-1.35E-06	
70	-0.000553	-4.41E-05	-0.009032
-0.000136	-0.000146	-1.16E-06	
71	-0.000553	-4.38E-05	-0.008141
-0.000142	-0.000259	-1.00E-06	
72	-0.000552	-4.31E-05	-0.006403
-0.000137	-0.000400	-1.58E-06	
73	-0.000552	-4.37E-05	-0.004138
-0.000114	-0.000480	-2.46E-06	
74	-0.000552	-4.82E-05	-0.001668
-6.26E-05	-0.000492	-2.92E-06	
75	-0.000552	-5.38E-05	-4.32E-07
-9.38E-06	-0.000460	-1.91E-06	
76	-0.000551	-5.51E-05	-0.001765
-4.15E-05	-0.000409	-2.06E-06	
77	-0.000551	-5.52E-05	-0.004441
-9.71E-05	-0.000326	-1.98E-06	
78	-0.000551	-5.77E-05	-0.006975
-0.000126	-0.000250	-1.73E-06	
79	-0.000551	-6.06E-05	-0.009012
-0.000138	-0.000173	-1.46E-06	
80	-0.000551	-6.18E-05	-0.010153
-0.000139	-0.000129	-1.43E-06	
81	-0.000551	-6.25E-05	-0.010193
-0.000140	-0.000186	-1.38E-06	
82	-0.000551	-6.15E-05	-0.009123
-0.000140	-0.000331	-1.46E-06	
83	-0.000551	-5.87E-05	-0.007124
-0.000130	-0.000475	-2.06E-06	
84	-0.000551	-5.59E-05	-0.004584
-0.000101	-0.000548	-3.07E-06	
85	-0.000551	-5.51E-05	-0.001846
-4.48E-05	-0.000550	-3.55E-06	
86	-0.000551	-5.30E-05	-4.30E-07
-6.56E-06	-0.000511	-2.89E-06	
87	-0.000551	-4.65E-05	-0.001727
-6.13E-05	-0.000453	-3.17E-06	
88	-0.000550	-4.46E-05	-0.004309
-0.000117	-0.000361	-3.25E-06	
89	-0.000550	-5.01E-05	-0.006713
-0.000143	-0.000281	-3.08E-06	
90	-0.000550	-5.92E-05	-0.008606
-0.000151	-0.000194	-2.74E-06	
91	-0.000550	-6.74E-05	-0.009609
-0.000148	-0.000149	-2.27E-06	
92	-0.000549	-7.58E-05	-0.009550
-0.000147	-0.000214	-1.76E-06	
93	-0.000549	-8.11E-05	-0.008442
-0.000142	-0.000354	-1.39E-06	
94	-0.000549	-8.32E-05	-0.006492
-0.000126	-0.000550	-1.11E-06	
95	-0.000550	-8.40E-05	-0.004094
-9.15E-05	-0.000520	-1.96E-06	
96	-0.000550	-8.45E-05	-0.001606
-3.22E-05	-0.000492	-2.19E-06	
97	-0.000550	-8.27E-05	-4.46E-07
-2.24E-05	-0.000433	-1.30E-06	
98	-0.000551	-7.11E-05	-0.002904
-8.76E-05	-0.000328	-1.53E-06	
99	-0.000551	-5.69E-05	-0.005902
-0.000119	-0.000221	-1.43E-06	
100	-0.000551	-4.47E-05	-0.008599
-0.000122	-0.000119	-1.29E-06	
101	-0.000551	-3.73E-05	-0.010636
-0.000109	-0.000551	-1.37E-06	
102	-0.000551	-3.43E-05	-0.011713
-8.99E-05	-5.53E-05	-1.03E-06	
103	-0.000551	-3.36E-05	-0.011659
-6.83E-05	-0.000218	-8.66E-07	
104	-0.000551	-3.57E-05	-0.010439
-4.75E-05	-0.000428	-9.04E-07	
105	-0.000551	-3.76E-05	-0.008155
-2.86E-05	-0.000608	-1.18E-06	
106	-0.000551	-4.20E-05	-0.004998
-1.34E-05	-0.000743	-2.29E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	-0.000551	-5.25E-05	-0.001202
-3.48E-05	-0.000808	-3.82E-06	
108	-0.000808	-5.70E-05	-1.97E-07
-7.45E-05	-0.000808	-4.05E-06	
109	-0.000673	-0.000100	-3.63E-07
-9.15E-05	-0.000246	-2.19E-06	
110	-0.000672	-9.54E-05	-0.003427
-9.73E-05	-0.000238	-2.15E-06	
111	-0.000671	-9.36E-05	-0.006613
-0.000105	-0.000512	-2.09E-06	
112	-0.000670	-9.52E-05	-0.008816
-0.000110	-0.000171	-1.88E-06	
113	-0.000670	-9.83E-05	-0.009814
-0.000114	-0.000133	-2.46E-06	
114	-0.000670	-0.000102	-0.009513
-0.000120	-0.000217	-4.81E-06	
115	-0.000671	-0.000103	-0.008021
-0.000123	-0.000386	-7.64E-06	
116	-0.000672	-9.89E-05	-0.005644
-0.000117	-0.000530	-9.44E-06	
117	-0.000674	-8.65E-05	-0.002797
-8.94E-05	-0.000582	-9.46E-06	
118	-0.000677	-6.56E-05	-8.57E-07
-5.80E-05	-0.000523	-7.99E-06	
119	-0.000679	-6.23E-05	-0.001909
-6.67E-05	-0.000445	-6.50E-06	
120	-0.000683	-6.71E-05	-0.004991
-0.000109	-0.000339	-4.45E-06	
121	-0.000686	-6.77E-05	-0.007998
-0.000140	-0.000260	-3.14E-06	
122	-0.000689	-6.84E-05	-0.010432
-0.000153	-0.000186	-2.74E-06	
123	-0.000691	-7.00E-05	-0.011823
-0.000156	-0.000158	-3.03E-06	
124	-0.000692	-6.93E-05	-0.011924
-0.000155	-0.000233	-4.63E-06	
125	-0.000692	-6.81E-05	-0.010709
-0.000156	-0.000372	-6.75E-06	
126	-0.000691	-6.46E-05	-0.008374
-0.000148	-0.000551	-8.79E-06	
127	-0.000690	-5.46E-05	-0.005358
-0.000123	-0.000646	-9.91E-06	
128	-0.000689	-3.76E-05	-0.002118
-7.38E-05	-0.000642	-9.34E-06	
129	-0.000689	-4.64E-05	-8.76E-07
-5.74E-05	-0.000574	-8.10E-06	
130	-0.000687	-6.74E-05	-0.002219
-6.60E-05	-0.000484	-6.54E-06	
131	-0.000685	-8.85E-05	-0.005673
-0.000113	-0.000362	-4.38E-06	
132	-0.000684	-0.000100	-0.008975
-0.000144	-0.000270	-2.95E-06	
133	-0.000682	-0.000105	-0.011632
-0.000156	-0.000185	-2.60E-06	
134	-0.000681	-0.000106	-0.013114
-0.000158	-0.000167	-3.22E-06	
135	-0.000680	-0.000105	-0.013157
-0.000158	-0.000271	-5.10E-06	
136	-0.000678	-0.000105	-0.011749
-0.000157	-0.000440	-7.44E-06	
137	-0.000677	-9.87E-05	-0.009133
-0.000145	-0.000624	-9.77E-06	
138	-0.000676	-8.55E-05	-0.005826
-0.000115	-0.000713	-1.41E-05	
139	-0.000675	-6.23E-05	-0.002306
-6.67E-05	-0.000701	-1.06E-05	
140	-0.000673	-4.04E-05	-8.74E-07
-5.80E-05	-0.000628	-9.44E-06	
141	-0.000672	-4.63E-05	-0.002186
-7.48E-05	-0.000531	-8.04E-06	
142	-0.000671	-7.19E-05	-0.005547
-0.000126	-0.000401	-6.06E-06	
143	-0.000668	-9.11E-05	-0.008718
-0.000154	-0.000304	-4.70E-06	
144	-0.000665	-0.000105	-0.011226
-0.000164	-0.000209	-3.83E-06	
145	-0.000663	-0.000105	-0.012568
-0.000164	-0.000188	-3.81E-06	
146	-0.000662	-0.000127	-0.012504
-0.000165	-0.000292	-4.86E-06	
147	-0.000662	-0.000133	-0.011052
-0.000161	-0.000456	-6.74E-06	
148	-0.000662	-0.000132	-0.008480
-0.000146	-0.000617	-7.41E-06	
149	-0.000663	-0.000122	-0.005314
-0.000110	-0.000680	-9.41E-06	
150	-0.000665	-0.000100	-0.002051
-6.66E-05	-0.000639	-8.67E-06	
151	-0.000666	-7.70E-05	-9.12E-07
-5.84E-05	-0.000545	-7.36E-06	
152	-0.000657	-6.04E-05	-0.003646
-9.09E-05	-0.000384	-5.16E-06	
153	-0.000667	-6.24E-05	-0.007518
-0.000119	-0.000242	-3.09E-06	
154	-0.000668	-6.57E-05	-0.011038
-0.000125	-0.000121	-1.62E-06	
155	-0.000667	-6.61E-05	-0.013720
-0.000118	-2.14E-05	-1.41E-07	
156	-0.000667	-6.45E-05	-0.015175
-0.000107	-8.03E-05	-1.08E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000666	-6.18E-05	-0.015175
-9.91E-05	-0.000258	-2.59E-06	
158	-0.000666	-6.01E-05	-0.013663
-9.78E-05	-0.000514	-5.53E-06	
159	-0.000665	-5.95E-05	-0.010749
-9.84E-05	-0.000759	-9.29E-06	
160	-0.000664	-6.13E-05	-0.006642
-9.64E-05	-0.000963	-1.23E-05	
161	-0.000664	-6.56E-05	-0.001610
-8.96E-05	-0.001086	-1.38E-05	
162	-0.000663	-6.73E-05	-3.94E-07
-8.73E-05	-0.001093	-1.39E-05	
163	-0.000491	-6.10E-05	-4.47E-05
-0.000149	-0.000205	-6.81E-05	
164	-0.000491	-8.34E-05	-0.001931
-1.04E-05	-0.000203	-5.47E-05	
165	-0.000491	-0.000105	-0.003760
-2.82E-05	-0.000180	-5.46E-05	
166	-0.000490	-0.000118	-0.005083
-5.05E-05	-0.000143	-5.11E-05	
167	-0.000490	-0.000122	-0.005732
-7.39E-05	-8.90E-05	-4.68E-05	
168	-0.000490	-0.000117	-0.005638
-9.73E-05	-7.29E-05	-4.52E-05	
169	-0.000490	-0.000105	-0.004836
-0.000118	-0.000195	-4.63E-05	
170	-0.000490	-8.83E-05	-0.003479
-0.000131	-0.000297	-4.59E-05	
171	-0.000490	-7.03E-05	-0.001786
-0.000122	-0.000352	-4.13E-05	
172	-0.000489	-6.04E-05	-2.61E-05
-6.97E-05	-0.000358	-3.41E-05	
173	-0.000488	-6.35E-05	-0.001229
-6.99E-05	-0.000339	-2.89E-05	
174	-0.000487	-7.69E-05	-0.003118
-0.000104	-0.000292	-2.41E-05	
175	-0.000486	-9.43E-05	-0.004946
-0.000119	-0.000237	-1.87E-05	
176	-0.000485	-0.000108	-0.006439
-0.000125	-0.000174	-1.79E-05	
177	-0.000484	-0.000117	-0.007307
-0.000127	-0.000111	-2.89E-05	
178	-0.000484	-0.000117	-0.007402
-0.000130	-0.000105	-4.53E-05	
179	-0.000485	-0.000109	-0.006700
-0.000139	-0.000206	-6.33E-05	
180	-0.000485	-9.28E-05	-0.005300
-0.000142	-0.000326	-7.70E-05	
181	-0.000486	-7.19E-05	-0.003458
-0.000134	-0.000395	-8.10E-05	
182	-0.000487	-5.11E-05	-0.001420
-9.93E-05	-0.000415	-8.03E-05	
183	-0.000487	-4.38E-05	-2.85E-05
-5.86E-05	-0.000400	-7.22E-05	
184	-0.000487	-4.68E-05	-0.001517
-7.95E-05	-0.000370	-7.44E-05	
185	-0.000488	-6.51E-05	-0.003758
-0.000118	-0.000311	-7.24E-05	
186	-0.000488	-8.55E-05	-0.005860
-0.000132	-0.000244	-6.35E-05	
187	-0.000488	-0.000102	-0.007545
-0.000135	-0.000171	-5.38E-05	
188	-0.000489	-0.000110	-0.008485
-0.000132	-0.000113	-4.59E-05	
189	-0.000489	-0.000111	-0.008523
-0.000134	-0.000144	-3.30E-05	
190	-0.000490	-0.000103	-0.007651
-0.000138	-0.000274	-2.79E-05	
191	-0.000490	-8.65E-05	-0.006001
-0.000135	-0.000398	-3.45E-05	
192	-0.000490	-6.62E-05	-0.003892
-0.000122	-0.000459	-4.10E-05	
193	-0.000491	-4.77E-05	-0.001592
-8.27E-05	-0.000469	-4.10E-05	
194	-0.000491	-4.41E-05	-2.82E-05
-5.74E-05	-0.000447	-3.80E-05	
195	-0.000492	-5.05E-05	-0.001479
-9.88E-05	-0.000411	-4.15E-05	
196	-0.000493	-7.13E-05	-0.003623
-0.000137	-0.000344	-4.49E-05	
197	-0.000493	-9.31E-05	-0.005596
-0.000149	-0.000275	-4.52E-05	
198	-0.000494	-0.000109	-0.007139
-0.000148	-0.000191	-4.60E-05	
199	-0.000495	-0.000117	-0.007946
-0.000141	-0.000130	-4.70E-05	
200	-0.000495	-0.000117	-0.007887
-0.000140	-0.000172	-5.21E-05	
201	-0.000495	-0.000109	-0.006981
-0.000140	-0.000295	-6.05E-05	
202	-0.000495	-9.39E-05	-0.005384
-0.000134	-0.000395	-6.98E-05	
203	-0.000495	-7.53E-05	-0.003419
-0.000117	-0.000430	-7.44E-05	
204	-0.000494	-6.74E-05	-0.001365
-7.66E-05	-0.000411	-6.68E-05	
205	-0.000494	-7.14E-05	-3.51E-05
-6.91E-05	-0.000371	-6.29E-05	
206	-0.000494	-8.37E-05	-0.002501
-0.000126	-0.000299	-6.09E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000494	-9.90E-05	-0.005014
-0.000137	-0.000214	-5.30E-05	
208	-0.000494	-0.000112	-0.007251
-0.000126	-0.000125	-4.55E-05	
209	-0.000494	-0.000120	-0.008925
-0.000108	-4.02E-05	-3.87E-05	
210	-0.000495	-0.000121	-0.009786
-8.69E-05	-3.93E-05	-3.52E-05	
211	-0.000495	-0.000115	-0.009704
-6.58E-05	-0.000192	-4.40E-05	
212	-0.000495	-0.000104	-0.008662
-4.60E-05	-0.000371	-5.92E-05	
213	-0.000496	-8.63E-05	-0.006741
-2.78E-05	-0.000517	-7.53E-05	
214	-0.000496	-6.26E-05	-0.004123
-1.23E-05	-0.000616	-8.97E-05	
215	-0.000496	-3.73E-05	-0.001026
-5.82E-05	-0.000653	-6.35E-05	
216	-0.000496	-3.30E-05	-5.68E-05
-0.000172	-0.000643	-7.94E-05	
217	-0.000612	-8.85E-05	-0.000143
-0.000214	-0.000269	-7.13E-05	
218	-0.000611	-7.88E-05	-0.003003
-5.60E-05	-0.000331	-6.56E-05	
219	-0.000611	-7.61E-05	-0.005825
-6.60E-05	-0.000390	-6.31E-05	
220	-0.000610	-7.77E-05	-0.007815
-7.38E-05	-0.000365	-6.01E-05	
221	-0.000610	-7.99E-05	-0.008738
-8.83E-05	-0.000341	-5.84E-05	
222	-0.000615	-8.25E-05	-0.008492
-0.000110	-0.000392	-6.16E-05	
223	-0.000610	-8.29E-05	-0.007170
-0.000134	-0.000539	-6.63E-05	
224	-0.000611	-7.96E-05	-0.005065
-0.000153	-0.000669	-6.80E-05	
225	-0.000612	-7.35E-05	-0.002536
-0.000146	-0.000715	-6.51E-05	
226	-0.000614	-6.47E-05	-0.000118
-8.49E-05	-0.000645	-5.01E-05	
227	-0.000615	-5.83E-05	-0.001725
-9.03E-05	-0.000515	-3.96E-05	
228	-0.000617	-5.39E-05	-0.004479
-0.000129	-0.000511	-3.79E-05	
229	-0.000619

236	-0.000620	-3.30E-05	-0.001934
-0.000109	-0.000742	-9.79E-05	
237	-0.000619	-4.83E-05	-0.000112
-6.54E-05	-0.000611	-6.25E-05	
238	-0.000618	-5.95E-05	-0.002030
-8.77E-05	-0.000544	-8.17E-05	
239	-0.000617	-7.16E-05	-0.005150
-0.000133	-0.000527	-8.03E-05	
240	-0.000617	-7.97E-05	-0.008118
-0.000148	-0.000450	-7.04E-05	
241	-0.000616	-8.39E-05	-0.010521
-0.000150	-0.000379	-6.13E-05	
242	-0.000616	-8.47E-05	-0.011871
-0.000146	-0.000370	-5.30E-05	
243	-0.000615	-8.53E-05	-0.011913
-0.000147	-0.000458	-4.72E-05	
244	-0.000615	-8.41E-05	-0.010636
-0.000153	-0.000608	-4.52E-05	
245	-0.000614	-7.94E-05	-0.008273
-0.000152	-0.000771	-5.53E-05	
246	-0.000613	-7.06E-05	-0.005301
-0.000137	-0.000839	-6.23E-05	
247	-0.000613	-5.70E-05	-0.002118
-9.07E-05	-0.000799	-5.92E-05	
248	-0.000612	-4.46E-05	-0.000113
-6.41E-05	-0.000661	-3.99E-05	
249	-0.000611	-3.84E-05	-0.001994
-0.000109	-0.000588	-5.18E-05	
250	-0.000610	-5.35E-05	-0.005021
-0.000153	-0.000562	-5.64E-05	
251	-0.000608	-6.88E-05	-0.007858
-0.000164	-0.000481	-5.51E-05	
252	-0.000607	-8.09E-05	-0.010114
-0.000162	-0.000400	-5.50E-05	
253	-0.000606	-9.24E-05	-0.011325
-0.000155	-0.000391	-5.78E-05	
254	-0.000606	-0.000103	-0.011263
-0.000154	-0.000485	-6.44E-05	
255	-0.000606	-0.000109	-0.009944
-0.000156	-0.000631	-7.76E-05	
256	-0.000606	-0.000109	-0.007626
-0.000151	-0.000769	-9.00E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000607	-0.000104	-0.004794
-0.000140	-0.000809	-9.52E-05	
258	-0.000608	-9.14E-05	-0.001864
-9.68E-05	-0.000743	-8.46E-05	
259	-0.000608	-7.80E-05	-0.000119
-8.57E-05	-0.000591	-7.42E-05	
260	-0.000609	-5.14E-05	-0.003326
-0.000147	-0.000536	-7.26E-05	
261	-0.000610	-4.38E-05	-0.006816
-0.000156	-0.000413	-6.18E-05	
262	-0.000610	-4.54E-05	-0.009973
-0.000140	-0.000310	-5.30E-05	
263	-0.000610	-4.72E-05	-0.012387
-0.000118	-0.000231	-4.61E-05	
264	-0.000609	-4.75E-05	-0.013690
-9.64E-05	-0.000295	-4.46E-05	
265	-0.000609	-4.66E-05	-0.013665
-7.67E-05	-0.000470	-5.40E-05	
266	-0.000609	-4.64E-05	-0.012261
-6.29E-05	-0.000700	-7.03E-05	
267	-0.000608	-4.67E-05	-0.009600
-6.00E-05	-0.000906	-8.99E-05	
268	-0.000608	-4.87E-05	-0.005900
-5.86E-05	-0.001056	-0.000109	
269	-0.000607	-5.50E-05	-0.001393
-0.000104	-0.001043	-8.07E-05	
270	-0.000607	-5.75E-05	-0.000117
-0.000213	-0.000945	-9.45E-05	
271	-0.000400	-4.94E-06	.000000
-2.23E-05	-0.000195	-1.16E-05	
272	-0.000763	-4.30E-05	.000000
-2.25E-05	-0.000306	-5.70E-06	
273	.000000	.000000	.000000
-1.97E-05	-0.000349	-5.59E-06	
274	-0.000809	-3.33E-06	.000000
-1.29E-05	-0.000397	-5.97E-06	
275	-0.000567	-1.60E-05	.000000
-2.83E-05	-0.000325	-5.58E-06	
276	-0.000628	-6.18E-06	.000000
-1.19E-05	-0.000543	-1.29E-06	
277	-0.000703	-3.28E-05	.000000
-2.10E-05	-0.000219	-2.20E-06	
278	-0.001004	-5.52E-05	.000000
-2.69E-05	-0.000413	-1.81E-06	
279	.000000	.000000	.000000
-1.44E-05	-0.000460	-1.91E-06	
280	-0.001034	-4.20E-06	.000000
-9.70E-06	-0.000511	-2.89E-06	
281	-0.000789	-1.77E-05	.000000
-4.57E-06	-0.000434	-1.30E-06	
282	-0.000805	-3.63E-05	.000000
3.04E-22	-0.000810	-4.05E-06	
283	-0.001022	1.20E-20	.000000
-0.000107	-0.000232	-2.19E-06	
284	-0.001236	-3.01E-05	.000000
-0.000156	-0.000498	-7.99E-06	
285	-3.08E-06	-0.000104	.000000
-7.27E-05	-0.000572	-8.11E-06	
286	-0.001225	-0.000315	.000000
-4.04E-21	-0.000624	-9.44E-06	
287	-0.000985	-0.000210	.000000
-1.34E-05	-0.000545	-7.36E-06	
288	-0.000867	-0.000195	.000000
5.01E-21	-0.001091	-1.39E-05	

COMB DL-G3-3 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000681	3.52E-05	4.98E-08
6.50E-05	0.000580	3.93E-06	
2	0.000682	3.97E-05	0.001249
0.000160	0.000556	3.19E-06	
3	0.000683	4.67E-05	0.002520
0.000273	0.000462	2.07E-06	
4	0.000684	4.99E-05	0.003569
0.000352	0.000313	1.62E-06	
5	0.000685	5.06E-05	0.004287
0.000391	0.000128	2.04E-06	
6	0.000685	5.09E-05	0.004563
0.000388	4.10E-06	3.59E-06	
7	0.000684	4.95E-05	0.004302
0.000341	0.000105	5.09E-06	
8	0.000683	4.42E-05	0.003451
0.000259	0.000228	6.35E-06	
9	0.000681	3.63E-05	0.001990
0.000160	0.000347	6.61E-06	
10	0.000680	3.13E-05	8.00E-08
7.40E-05	0.000445	5.58E-06	
11	0.000680	2.64E-05	0.001616
8.58E-05	0.000495	5.39E-06	
12	0.000680	2.51E-05	0.003700
0.000188	0.000521	3.79E-06	
13	0.000680	2.60E-05	0.005390
0.000295	0.000476	2.19E-06	
14	0.000680	2.78E-05	0.006598
0.000381	0.000355	1.73E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
15	0.000679	2.90E-05	0.007226
0.000433	0.000199	2.42E-06	
16	0.000679	3.12E-05	0.007447
0.000441	0.000123	3.77E-06	
17	0.000679	3.18E-05	0.007023
0.000405	0.000182	5.22E-06	
18	0.000678	2.94E-05	0.005911
0.000328	0.000290	6.70E-06	
19	0.000678	2.16E-05	0.004179
0.000223	0.000405	7.51E-06	
20	0.000678	1.04E-05	0.001881
0.000111	0.000510	7.10E-06	
98	0.000678	1.19E-05	9.97E-08
5.99E-05	0.000564	6.08E-06	
22	0.000678	1.55E-05	0.001802
9.34E-05	0.000598	5.88E-06	
23	0.000680	2.79E-05	0.004082
0.000204	0.000597	4.22E-06	
24	0.000682	3.99E-05	0.005896
0.000313	0.000527	2.54E-06	
25	0.000683	4.69E-05	0.007159
0.000399	0.000375	1.96E-06	
26	0.000684	5.03E-05	0.007747
0.000446	0.000201	2.58E-06	
27	0.000685	5.15E-05	0.007824
0.000447	0.000146	3.90E-06	
28	0.000686	5.00E-05	0.007271
0.000401	0.000217	5.30E-06	
29	0.000687	4.43E-05	0.006020
0.000316	0.000320	6.73E-06	
30	0.000688	3.30E-05	0.004190
0.000207	0.000421	7.41E-06	
31	0.000689	1.97E-05	0.001859
9.47E-05	0.000510	6.89E-06	
32	0.000690	1.35E-05	1.10E-07
5.93E-05	0.000551	6.01E-06	
33	0.000691	9.69E-06	0.002026
0.000111	0.000573	5.74E-06	
34	0.000692	1.97E-05	0.004599
0.000225	0.000556	3.93E-06	
35	0.000693	2.81E-05	0.006660
0.000332	0.000473	2.12E-06	
36	0.000693	3.21E-05	0.008114
0.000413	0.000316	1.83E-06	
37	0.000694	3.21E-05	0.008848
0.000452	0.000154	2.61E-06	
38	0.000695	3.09E-05	0.009044
0.000444	0.000141	4.07E-06	
39	0.000696	2.91E-05	0.008427
0.000391	0.000245	5.73E-06	
40	0.000697	2.52E-05	0.006998
0.000303	0.000366	7.14E-06	
41	0.000697	1.78E-05	0.004887
0.000196	0.000469	7.80E-06	
42	0.000697	1.35E-05	0.002177
9.53E-05	0.000594	7.25E-06	
43	0.000697	1.81E-05	7.86E-08
8.88E-05	0.000644	6.09E-06	
44	0.000697	2.84E-05	0.002286
0.000191	0.000671	6.09E-06	
45	0.000695	3.22E-05	0.004073
0.000314	0.000627	4.29E-06	
46	0.000696	3.21E-05	0.005265
0.000420	0.000504	2.88E-06	
47	0.000695	3.39E-05	0.005862
0.000493	0.000312	2.92E-06	
48	0.000694	3.50E-05	0.005896
0.000522	0.000132	3.79E-06	
49	0.000696	3.61E-05	0.005438
0.000507	0.000141	5.14E-06	
50	0.000698	3.74E-05	0.004576
0.000450	0.000209	6.82E-06	
51	0.000700	3.77E-05	0.003403
0.000354	0.000261	8.15E-06	
52	0.000703	3.67E-05	0.002009
0.000221	0.000297	8.86E-06	
53	0.000706	3.75E-05	0.000473
7.26E-05	0.000315	9.37E-06	
54	0.000707	4.05E-05	4.89E-08
4.61E-05	0.000316	9.36E-06	
55	0.000795	7.33E-05	3.60E-08
4.90E-05	0.000800	2.76E-06	
56	0.000795	7.21E-05	0.001323
0.000139	0.000749	2.37E-06	
57	0.000794	7.46E-05	0.002674
0.000275	0.000599	1.66E-06	
58	0.000794	7.74E-05	0.003800
0.000372	0.000394	1.03E-06	
59	0.000794	7.68E-05	0.004592
0.000419	0.000171	6.02E-07	
60	0.000794	7.14E-05	0.004934
0.000410	1.89E-05	8.03E-07	
61	0.000795	6.24E-05	0.004721
0.000351	9.64E-05	1.32E-06	
62	0.000795	5.29E-05	0.003874
0.000262	0.000234	2.21E-06	
63	0.000797	4.23E-05	0.002311
0.000159	0.000385	3.13E-06	
64	0.000798	3.47E-05	5.74E-08
6.56E-05	0.000543	2.66E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	0.000799	2.95E-05	0.001879
8.75E-05	0.000633	2.85E-06	
66	0.000800	2.26E-05	0.004149
0.000200	0.000674	3.05E-06	
67	0.000801	2.03E-05	0.005904
0.000316	0.000612	2.75E-06	
68	0.000801	2.16E-05	0.007126
0.000412	0.000455	2.44E-06	
69	0.000802	2.30E-05	0.007735
0.000468	0.000274	2.07E-06	
70	0.000802	2.31E-05	0.007965
0.000474	0.000158	1.72E-06	
71	0.000802	1.93E-05	0.007553
0.000427	0.000188	1.68E-06	
72	0.000802	1.23E-05	0.006431
0.000337	0.000301	2.01E-06	
73	0.000802	6.52E-06	0.004636
0.000219	0.000428	2.82E-06	
74	0.000801	8.13E-06	0.002149
0.000102	0.000570	3.63E-06	
75	0.000801	1.74E-05	8.71E-08
3.87E-05	0.000667	3.43E-06	
76	0.000800	2.62E-05	0.002072
8.76E-05	0.000740	3.71E-06	
77	0.000800	3.96E-05	0.004544
0.000210	0.000754	3.77E-06	
78	0.000799	5.41E-05	0.006426
0.000331	0.000807	3.27E-06	
79	0.000798	6.66E-05	0.007704
0.000428	0.000478	2.71E-06	
80	0.000798	7.45E-05	0.008282
0.000483	0.000282	2.30E-06	
81	0.000797	7.59E-05	0.008362
0.000484	0.000180	1.88E-06	
82	0.000797	7.06E-05	0.007821
0.000431	0.000225	1.65E-06	
83	0.000797	5.92E-05	0.006556
0.000334	0.000333	2.07E-06	
84	0.000796	4.44E-05	0.004659
0.000214	0.000447	2.87E-06	
85	0.000795	2.87E-05	0.002134
8.94E-05	0.000573	3.73E-06	
86	0.000795	1.73E-05	1.01E-07
3.41E-05	0.000657	3.71E-06	
87	0.000794	6.07E-06	0.002302
9.88E-05	0.000717	4.06E-06	
88	0.000794	7.88E-06	0.005071
0.000220	0.000713	4.22E-06	
89	0.000793	2.25E-05	0.007202
0.000341	0.000613	3.91E-06	
90	0.000792	3.77E-05	0.008674
0.000436	0.000419	3.34E-06	
91	0.000791	4.95E-05	0.009382
0.000485	0.000238	2.54E-06	
92	0.000790	5.69E-05	0.009603
0.000480	0.000174	1.77E-06	
93	0.000790	5.89E-05	0.009002
0.000423	0.000253	1.30E-06	
94	0.000790	5.66E-05	0.007563
0.000325	0.000379	1.20E-06	
95	0.000790	5.14E-05	0.005384
0.000206	0.000518	2.52E-06	
96	0.000790	4.61E-05	0.002469
9.24E-05	0.000662	3.97E-06	
97	0.000791	4.17E-05	4.95E-08
7.80E-05	0.000758	3.68E-06	
98	0.000818	3.06E-05	0.002611
0.000187	0.000835	4.09E-06	
99	0.000793	2.04E-05	0.004505
0.000312	0.000796	4.66E-06	
100	0.000794	2.11E-05	0.005700
0.000426	0.000649	4.88E-06	
101	0.000795	3.38E-05	0.006256
0.000516	0.000418	4.72E-06	
102	0.000797	4.91E-05	0.006232
0.000562	0.000222	4.05E-06	
103	0.000797	6.21E-05	0.005711
0.000556	0.000169	3.07E-06	
104	0.000798	7.15E-05	0.004786
0.000495	0.000224	2.06E-06	
105	0.000798	7.55E-05	0.003552
0.000384	0.000275	1.56E-06	
106	0.000798	7.73E-05	0.002096
0.000226	0.000310	2.08E-06	
107	0.000797	8.12E-05	0.000494
5.85E-05	0.000329	3.23E-06	
108	0.000797	8.30E-05	3.22E-08
5.67E-05	0.000329	3.39E-06	
109	0.000878	8.73E-05	4.67E-08
6.23E-05	0.000936	9.43E-06	
110	0.000876	0.000112	0.001400
0.000142	0.000865	8.87E-06	
111	0.000874	0.000142	0.002831
0.000238	0.000777	7.04E-06	
112	0.000872	0.000166	0.004034
0.000309	0.000427	4.31E-06	
113	0.000872	0.000176	0.004899
0.000345	0.000170	1.96E-06	
114	0.000873	0.000168	0.005303
0.000342	2.60E-05	9.90E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000876	0.000145	0.005126
0.000302	9.74E-05	1.75E-06	
116	0.000879	0.000111	0.004256
0.000233	0.000251	3.45E-06	
117	0.000882	7.38E-05	0.002571
0.000146	0.000427	5.29E-06	
118	0.000884	4.49E-05	7.37E-08
7.67E-05	0.000614	6.93E-06	
119	0.000886	4.33E-05	0.002088
8.58E-05	0.000721	7.95E-06	
120	0.000888	6.38E-05	0.004549
0.000173	0.000771	8.70E-06	
121	0.000690	9.01E-05	0.006395
0.000265	0.000697	8.02E-06	
122	0.000891	0.000115	0.007645
0.000338	0.000511	6.56E-06	
123	0.000892	0.000132	0.008250
0.000381	0.000308	4.85E-06	
124	0.000892	0.000134	0.008478
0.000389	0.000184	3.29E-06	
125	0.000893	0.000119	0.008073
0.000359	0.000198	2.68E-06	
126	0.000893	9.02E-05	0.006926
0.000293	0.000317	3.32E-06	
127	0.000893	5.32E-05	0.005043
0.000201	0.000459	4.94E-06	
128	0.000892	1.86E-05	0.002364
0.000102	0.000626	6.77E-06	
129	0.000892	2.48E-05	1.13E-07
6.44E-05	0.000743	7.91E-06	
130	0.000891	5.13E-05	0.002288
8.63E-05	0.000834	8.85E-06	
131	0.000889	9.39E-05	0.004956
0.000185	0.000858	9.37E-06	
132	0.000887	0.000136	0.006930
0.000280	0.000762	8.45E-06	
133	0.000887	0.000170	0.008238
0.000354	0.000548	6.81E-06	
134	0.000886	0.000189	0.008812
0.000393	0.000330	5.10E-06	
135	0.000886	0.000188	0.008894
0.000394	0.000203	3.52E-06	
136	0.000885	0.000172	0.008359
0.000356	0.000234	2.93E-06	
137	0.000885	0.000138	0.007067
0.000283	0.000349	3.64E-06	
138	0.000884	9.48E-05	0.005077
0.000188	0.000477	5.20E-06	
139	0.000883	4.87E-05	0.002353
8.74E-05	0.000629	7.00E-06	
140	0.000882	1.97E-05	1.29E-07
6.40E-05	0.000735	8.20E-06	
141	0.000881	2.64E-05	0.002522
0.000101	0.000813	9.22E-06	
142	0.000879	6.60E-05	0.005492
0.000202	0.000823	9.76E-06	
143	0.000878	0.000109	0.007719
0.000296	0.000717	8.95E-06	
144	0.000876	0.000144	0.009223
0.000366	0.000499	7.12E-06	
145	0.000875	0.000166	0.009924
0.000398	0.000295	5.02E-06	
146	0.000874	0.000171	0.010154
0.000391	0.000196	3.18E-06	
147	0.000873	0.000158	0.009566
0.000347	0.000260	2.44E-06	
148	0.000872	0.000134	0.008102
0.000272	0.000394	2.85E-06	
149	0.000873	0.000103	0.005830
0.000179	0.000548	4.89E-06	
150	0.000874	7.02E-05	0.002706
9.57E-05	0.000722	7.08E-06	
151	0.000875	4.93E-05	7.02E-08
9.29E-05	0.000843	8.49E-06	
152	0.000877	4.90E-05	0.002876
0.000176	0.000952	1.02E-05	
153	0.000880	8.55E-05	0.004898
0.000285	0.000925	1.09E-05	
154	0.000884	0.000128	0.006120
0.000378	0.000771	1.04E-05	
155	0.000887	0.000164	0.006646
0.000442	0.000577	8.80E-06	
156	0.000889	0.000190	0.006566
0.000468	0.000296	6.59E-06	
157	0.000891	0.000199	0.005982
0.000454	0.000188	4.33E-06	
158	0.000891	0.000193	0.004994
0.000406	0.000237	3.21E-06	
159	0.000889	0.000175	0.003697
0.000321	0.000289	3.44E-06	
160	0.000887	0.000144	0.002179
0.000203	0.000326	3.71E-06	
161	0.000883	0.000106	0.000513
6.87E-05	0.000345	3.87E-06	
162	0.000882	9.43E-05	3.58E-08
4.21E-05	0.000346	3.87E-06	
163	0.000741	4.76E-05	4.08E-05
4.40E-05	0.000665	0.000123	
164	0.000741	5.65E-05	0.001285
0.000148	0.000648	9.43E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000741	6.51E-05	0.002591
0.000337	0.000535	8.47E-05	
166	0.000741	6.98E-05	0.003674
0.000447	0.000361	6.70E-05	
167	0.000740	7.00E-05	0.004423
0.000496	0.000157	4.79E-05	
168	0.000740	6.54E-05	0.004726
0.000490	1.18E-05	3.73E-05	
169	0.000740	5.76E-05	0.004483
0.000426	0.000100	3.59E-05	
170	0.000739	4.78E-05	0.003630
0.000315	0.000228	3.78E-05	
171	0.000739	3.86E-05	0.002121
0.000163	0.000359	4.36E-05	
172	0.000739	3.18E-05	2.00E-05
1.88E-05	0.000488	4.69E-05	
173	0.000739	2.74E-05	0.001722
5.90E-05	0.000562	5.05E-05	
174	0.000740	2.20E-05	0.003895
0.000214	0.000597	5.51E-05	
175	0.000740	2.30E-05	0.005618
0.000361	0.000547	4.89E-05	
176	0.000740	2.73E-05	0.006835
0.000474	0.000408	3.99E-05	
177	0.000740	3.10E-05	0.007452
0.000536	0.000240	3.13E-05	
178	0.000740	3.19E-05	0.007681
0.000546	0.000140	4.39E-05	
179	0.000740	2.91E-05	0.007260
0.000503	0.000185	5.54E-05	
180	0.000740	2.21E-05	0.006140
0.000402	0.000294	6.90E-05	
181	0.000740	1.56E-05	0.004377
0.000259	0.000414	8.25E-05	
182	0.000740	8.44E-06	0.001989
9.33E-05	0.000536	8.89E-05	
183	0.000740	8.86E-06	2.18E-05
8.17E-06	0.000613	8.91E-05	
184	0.000740	1.61E-05	0.001912
6.90E-05	0.000668	0.000101	
185	0.000741	3.15E-05	0.004284
0.000233	0.000674	0.000109	
186	0.000741	4.66E-05	0.006131
0.000385	0.000597	9.87E-05	
187	0.000741	5.83E-05	0.007404
0.000497	0.000425	7.91E-05	
188	0.000741	6.53E-05	0.007990
0.000552	0.000240	5.19E-05	
189	0.000741	6.68E-05	0.008068
0.000553	0.000161	2.93E-05	
190	0.000741	6.26E-05	0.007517
0.000500	0.000221	1.99E-05	
191	0.000741	5.27E-05	0.006256
0.000389	0.000327	2.63E-05	
192	0.000741	4.09E-05	0.004393
0.000238	0.000434	3.70E-05	
193	0.000742	2.03E-05	0.001969
7.27E-05	0.000541	4.67E-05	
194	0.000742	1.03E-05	2.15E-05
7.00E-06	0.000604	5.09E-05	
195	0.000742	7.77E-06	0.002140
9.07E-05	0.000645	6.21E-05	
196	0.000742	1.39E-05	0.004805
0.000259	0.000632	7.12E-05	
197	0.000742	2.72E-05	0.006901
0.000406	0.000541	6.80E-05	
198	0.000742	3.71E-05	0.008365
0.000511	0.000363	5.99E-05	
199	0.000742	4.27E-05	0.009091
0.000557	0.000192	5.11E-05	
200	0.000742	4.49E-05	0.009296
0.000547	0.000156	4.98E-05	
201	0.000742	4.35E-05	0.008683
0.000485	0.000250	5.58E-05	
202	0.000742	3.85E-05	0.007246
0.000370	0.000374	6.73E-05	
203	0.000742	3.05E-05	0.005101
0.000219	0.000506	7.83E-05	
204	0.000743	2.32E-05	0.002293
6.13E-05	0.000630	8.24E-05	
205	0.000743	2.45E-05	2.81E-05
2.24E-05	0.000704	8.56E-05	
206	0.000743	2.73E-05	0.002417
0.000185	0.000754	0.000101	
207	0.000744	2.70E-05	0.004256
0.000361	0.000708	9.68E-05	
208	0.000744	3.03E-05	0.005453
0.000500	0.000571	8.39E-05	
209	0.000744	4.05E-05	0.006036
0.000593	0.000356	6.37E-05	
210	0.000744	4.89E-05	0.006048
0.000632	0.000169	4.36E-05	
211	0.000745	5.46E-05	0.005564
0.000618	0.000154	3.90E-05	
212	0.000746	5.81E-05	0.004676
0.000554	0.000216	4.24E-05	
213	0.000747	5.89E-05	0.003478
0.000439	0.000267	4.53E-05	
214	0.000747	5.59E-05	0.002059
0.000262	0.000302	4.83E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000749	5.31E-05	0.000498
4.07E-05	0.000319	3.34E-05	
216	0.000749	5.08E-05	3.65E-05
4.67E-05	0.000320	4.11E-05	
217	0.000837

0.000236	0.000963	0.000118	
240	0.000843	0.000101	0.006714
0.000366	0.000880	0.000110	
241	0.000842	0.000127	0.008004
0.000468	0.000677	9.22E-05	
242	0.000842	0.000141	0.008576
0.000522	0.000475	6.96E-05	
243	0.000841	0.000142	0.008657
0.000522	0.000353	5.04E-05	
244	0.000841	0.000129	0.008123
0.000471	0.000374	3.98E-05	
245	0.000840	0.000114	0.006849
0.000370	0.000479	4.62E-05	
246	0.000840	7.21E-05	0.004904
0.000240	0.000594	5.54E-05	
247	0.000839	3.85E-05	0.002262
0.000100	0.000673	6.07E-05	
248	0.000838	1.68E-05	6.35E-05
4.46E-05	0.000766	6.62E-05	
249	0.000837	9.48E-06	0.002428
0.000112	0.000895	8.40E-05	
250	0.000836	3.24E-05	0.005315
0.000254	0.000924	9.63E-05	
251	0.000835	6.56E-05	0.007498
0.000384	0.000829	9.17E-05	
252	0.000834	9.62E-05	0.008982
0.000484	0.000622	7.92E-05	
253	0.000833	0.000117	0.009680
0.000531	0.000434	6.40E-05	
254	0.000832	0.000125	0.009909
0.000525	0.000345	5.66E-05	
255	0.000831	0.000120	0.009319
0.000466	0.000400	6.27E-05	
256	0.000831	0.000105	0.007873
0.000362	0.000523	7.43E-05	
257	0.000831	8.23E-05	0.005645
0.000236	0.000665	8.72E-05	
258	0.000832	5.93E-05	0.002608
0.000105	0.000766	9.11E-05	
259	0.000833	4.47E-05	7.50E-05
7.60E-05	0.000928	0.000103	
260	0.000835	2.84E-05	0.002769
0.000197	0.001046	0.000123	
261	0.000838	4.01E-05	0.004737
0.000343	0.001021	0.000121	
262	0.000840	5.63E-05	0.005943
0.000474	0.000871	0.000107	
263	0.000842	9.87E-05	0.006477
0.000569	0.000628	8.42E-05	
264	0.000844	0.000126	0.006418
0.000617	0.000425	6.42E-05	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000842	0.000142	0.005858
0.000613	0.000337	5.45E-05	
266	0.000845	0.000146	0.004896
0.000552	0.000371	5.44E-05	
267	0.000844	0.000136	0.003625
0.000434	0.000411	5.70E-05	
268	0.000842	0.000117	0.002132
0.000255	0.000433	5.97E-05	
269	0.000839	9.46E-05	0.000492
4.62E-05	0.000346	3.89E-05	
270	0.000838	8.56E-05	9.22E-05
5.29E-05	0.000338	4.76E-05	
271	0.000478	1.12E-05	.000000
7.67E-05	0.000579	3.93E-06	.000000
272	0.001164	6.48E-05	.000000
8.54E-05	0.000439	5.58E-06	.000000
273	.000000	.000000	.000000
7.21E-05	0.000562	6.08E-06	.000000
274	0.001397	4.35E-06	.000000
6.20E-05	0.000551	6.01E-06	.000000
275	0.000727	3.06E-05	.000000
0.000129	0.000637	6.09E-06	.000000
276	0.001538	1.51E-05	.000000
4.33E-05	0.000316	9.36E-06	.000000
277	0.000584	7.78E-05	.000000
9.58E-05	0.000795	2.76E-06	
278	0.001372	7.71E-05	.000000
6.67E-05	0.000540	2.66E-06	
279	0.001033	.000000	.000000
4.55E-05	0.000666	3.43E-06	
280	0.001618	5.12E-06	.000000
3.85E-05	0.000657	3.71E-06	
281	0.000909	2.04E-05	.000000
4.57E-05	0.000760	3.68E-06	
282	0.001476	9.05E-05	.000000
2.67E-05	0.000333	3.39E-06	
283	0.000676	5.40E-05	.000000
0.000229	0.000908	9.43E-06	
284	0.001504	3.79E-05	.000000
0.000181	0.000582	6.93E-06	
285	2.50E-06	8.45E-05	.000000
8.24E-05	0.000741	7.91E-06	
286	0.001735	0.000401	.000000
5.11E-06	0.000733	8.20E-06	
287	0.001024	0.000207	.000000
2.21E-06	0.000846	8.49E-06	
288	0.002113	0.000326	.000000
4.16E-05	0.000351	3.87E-06	

COMB DL-G3-3 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	−0.000649	−8.05E-05	−5.02E-08
−2.82E-05	−0.000281	−9.13E-06	
2	−0.000648	−0.000108	−0.002519
−2.27E-05	−0.000270	−8.31E-06	
3	−0.000648	−0.000139	−0.004958
−3.11E-05	−0.000237	−6.29E-06	
4	−0.000647	−0.000161	−0.006734
−4.25E-05	−0.000183	−4.40E-06	
5	−0.000648	−0.000169	−0.007617
−5.43E-05	−0.000109	−2.54E-06	
6	−0.000648	−0.000163	−0.007501
−6.43E-05	−0.000102	−1.53E-06	
7	−0.000648	−0.000147	−0.006437
−7.05E-05	−0.000267	−1.55E-06	
8	−0.000647	−0.000123	−0.004639
−6.85E-05	−0.000396	−2.29E-06	
9	−0.000646	−0.000101	−0.002388
−4.97E-05	−0.000463	−5.22E-06	
10	−0.000645	−9.13E-06	−1.24E-07
−1.16E-05	−0.000470	−5.80E-06	
11	−0.000644	−9.37E-05	−0.001635
−1.37E-05	−0.000448	−6.96E-06	
12	−0.000643	−0.000109	−0.004148
−4.74E-05	−0.000385	−7.53E-06	
13	−0.000641	−0.000132	−0.006580
−7.11E-05	−0.000311	−6.83E-06	
14	−0.000639	−0.000155	−0.008569
−8.42E-05	−0.000225	−5.38E-06	
15	−0.000638	−0.000169	−0.009734
−9.01E-05	−0.000143	−3.78E-06	
16	−0.000638	−0.000169	−0.009865
−9.22E-05	−0.000140	−2.20E-06	
17	−0.000638	−0.000154	−0.008928
−9.39E-05	−0.000278	−1.35E-06	
18	−0.000638	−0.000131	−0.007064
−8.78E-05	−0.000432	−1.83E-06	
19	−0.000639	−0.000102	−0.004615
−6.94E-05	−0.000521	−3.51E-06	
20	−0.000639	−7.69E-05	−0.001898
−3.29E-05	−0.000547	−5.29E-06	
21	−0.000639	−7.19E-05	−1.31E-07
−9.93E-06	−0.000532	−5.69E-06	
22	−0.000640	−7.60E-05	−0.002031
−2.11E-05	−0.000496	−6.92E-06	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	−0.000641	−0.000100	−0.005025
−5.85E-05	−0.000415	−7.54E-06	
24	−0.000642	−0.000131	−0.007830
−8.1E-05	−0.000325	−6.86E-06	
25	−0.000642	−0.000157	−0.010081
−9.20E-05	−0.000226	−5.43E-06	
26	−0.000643	−0.000171	−0.011343
−9.50E-05	−0.000147	−3.86E-06	
27	−0.000644	−0.000172	−0.011397
−9.57E-05	−0.000186	−2.37E-06	
28	−0.000650	−0.000156	−0.010227
−9.34E-05	−0.000357	−1.66E-06	
29	−0.000645	−0.000132	−0.008025
−8.29E-05	−0.000520	−2.33E-06	
30	−0.000646	−0.000102	−0.005211
−6.02E-05	−0.000605	−4.16E-06	
31	−0.000646	−7.73E-05	−0.002136
−2.19E-05	−0.000622	−6.07E-06	
32	−0.000647	−7.26E-05	−1.28E-07
−1.01E-05	−0.000600	−6.74E-06	
33	−0.000648	−7.65E-05	−0.001975
−3.37E-05	−0.000557	−8.05E-06	
34	−0.000648	−0.000103	−0.004837
−7.25E-05	−0.000467	−8.58E-06	
35	−0.000650	−0.000136	−0.007466
−9.30E-05	−0.000371	−7.72E-06	
36	−0.000651	−0.000166	−0.009522
−0.000101	−0.000259	−6.33E-06	
37	−0.000652	−0.000183	−0.010601
−0.000101	−0.000170	−4.46E-06	
38	−0.000652	−0.000186	−0.010521
−0.000100	−0.000214	−2.82E-06	
39	−0.000652	−0.000174	−0.009306
−9.35E-05	−0.000374	−2.16E-06	
40	−0.000652	−0.000149	−0.007175
−7.91E-05	−0.000508	−2.62E-06	
41	−0.000651	−0.000122	−0.004558
−5.26E-05	−0.000561	−4.39E-06	
42	−0.000651	−0.000110	−0.001818
−1.64E-05	−0.000544	−5.91E-06	
43	−0.000650	−0.000115	−1.44E-07
−1.35E-05	−0.000500	−5.54E-06	
44	−0.000650	−0.000125	−0.003346
−5.24E-05	−0.000410	−6.64E-06	
45	−0.000650	−0.000137	−0.006705
−7.41E-05	−0.000295	−6.83E-06	
46	−0.000650	−0.000152	−0.009692
−7.70E-05	−0.000173	−6.25E-06	
47	−0.000650	−0.000166	−0.011928
−7.15E-05	−5.64E-05	−5.27E-06	
48	−0.000651	−0.000174	−0.013078
−6.22E-05	−3.22E-05	−3.79E-06	
49	−0.000652	−0.000171	−0.012962
−5.11E-05	−0.000220	−2.39E-06	
50	−0.000652	−0.000156	−0.011549
−3.90E-05	−0.000460	−1.79E-06	
51	−0.000652	−0.000128	−0.008961
−2.71E-05	−0.000662	−2.09E-06	
52	−0.000652	−9.26E-05	−0.005445
−2.14E-05	−0.000808	−2.08E-06	
53	−0.000653	−5.82E-05	−0.001298
−3.63E-05	−0.000873	−3.18E-06	
54	−0.000653	−5.07E-05	−5.63E-08
−4.30E-05	−0.000874	−3.35E-06	
55	−0.000758	−9.00E-05	−3.53E-07
−7.17E-05	−0.000299	−2.33E-06	
56	−0.000758	−8.39E-05	−0.003477
−5.58E-05	−0.000288	−1.91E-06	
57	−0.000757	−8.19E-05	−0.006743
−7.11E-05	−0.000255	−1.24E-06	
58	−0.000757	−8.25E-05	−0.009043
−8.52E-05	−0.000201	−1.64E-06	
59	−0.000757	−8.27E-05	−0.010130
−9.58E-05	−0.000145	−1.32E-06	
60	−0.000757	−8.18E-05	−0.009886
−0.000102	−0.000190	−2.05E-06	
61	−0.000757	−7.95E-05	−0.008401
−0.000103	−0.000382	−2.77E-06	
62	−0.000758	−7.50E-05	−0.005975
−9.75E-05	−0.000540	−3.41E-06	
63	−0.000759	−6.79E-05	−0.003008
−7.94E-05	−0.000609	−3.65E-06	
64	−0.000760	−6.26E-05	−7.94E-07
−3.42E-05	−0.000573	−3.15E-06	
65	−0.000761	−5.99E-05	−0.002051
−5.28E-05	−0.000509	−3.29E-06	
66	−0.000762	−5.64E-05	−0.005298
−0.000107	−0.000411	−2.68E-06	
67	−0.000763	−5.26E-05	−0.008445
−0.000136	−0.000325	−2.16E-06	
68	−0.000763	−5.03E-05	−0.011002
−0.000148	−0.000235	−1.39E-06	
69	−0.000764	−4.90E-05	−0.012479
−0.000148	−0.000173	−1.76E-06	
70	−0.000764	−4.79E-05	−0.012612
−0.000144	−0.000222	−1.80E-06	
71	−0.000764	−4.55E-05	−0.011367
−0.000140	−0.000377	−1.92E-06	
72	−0.000764	−4.14E-05	−0.008939
−0.000128	−0.000569	−2.42E-06	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	−0.000764	−3.72E-05	−0.005776
−0.000102	−0.000677	−3.04E-06	
74	−0.000764	−3.81E-05	−0.002322
−5.76E-05	−0.000690	−3.19E-06	
75	−0.000764	−4.65E-05	−8.09E-07
−1.45E-05	−0.000636	−3.03E-06	
76	−0.000763	−5.47E-05	−0.002454
−4.96E-05	−0.000558	−3.36E-06	
77	−0.000763	−6.45E-05	−0.006188
−0.000105	−0.000441	−2.79E-06	
78	−0.000762	−7.22E-05	−0.009719
−0.000135	−0.000338	−2.16E-06	
79	−0.000762	−7.73E-05	−0.012554
−0.000149	−0.000234	−1.87E-06	
80	−0.000762	−7.93E-05	−0.014140
−0.000152	−0.000181	−1.89E-06	
81	−0.000762	−8.09E-05	−0.014196
−0.000152	−0.000268	−2.07E-06	
82	−0.000762	−7.98E-05	−0.012705
−0.000150	−0.000460	−2.34E-06	
83	−0.000761	−7.48E-05	−0.009922
−0.000137	−0.000660	−3.07E-06	
84	−0.000761	−6.66E-05	−0.006383
−0.000106	−0.000762	−3.93E-06	
85	−0.000761	−5.55E-05	−0.002565
−5.08E-05	−0.000765	−4.32E-06	
86	−0.000761	−4.55E-05	−8.06E-07
−1.05E-05	−0.000706	−4.46E-06	
87	−0.000760	−3.62E-05	−0.002403
−5.62E-05	−0.000620	−5.02E-06	
88	−0.000760	−4.21E-05	−0.006008
−0.000105	−0.000492	−4.79E-06	
89	−0.000759	−5.74E-05	−0.009362
−0.000135	−0.000384	−4.25E-06	
90	−0.000759	−7.38E-05	−0.012000
−0.000150	−0.000267	−3.69E-06	
91	−0.000758	−8.78E-05	−0.013401
−0.000155	−0.000206	−3.06E-06	
92	−0.000759	−9.00E-05	−0.013320
−0.000161	−0.000294	−2.44E-06	
93	−0.000758	−0.000108	−0.011779
−0.000161	−0.000478	−2.00E-06	
94	−0.000758	−0.000110	−0.009063
−0.000148	−0.000648	−1.74E-06	
95	−0.000758	−0.000107	−0.005718
−0.000115	−0.000716	−2.24E-06	
96	−0.000758	−9.74E-05	−0.002238
−5.44E-05	−0.000684	−2.39E-06	
97	−0.000759	−8.74E-05	−8.29E-07
−3.65E-05	−0.000600	−2.17E-06	
98	−0.000759	−7.00E-05	−0.004032
−8.37E-05	−0.000449	−2.74E-06	
99	−0.000760	−4.96E-05	−0.008205
−0.000103	−0.000303	−2.19E-06	
100	−0.000760	−3.67E-05	−0.011955
−0.000110	−0.000167	−1.72E-06	
101	−0.000761	−3.19E-05	−0.014786
−0.000111	−4.42E-05	−1.52E-06	
102	−0.000761	−3.14E-05	−0.016287
−0.000111	−6.85E-05	−1.33E-06	
103	−0.000761	−3.33E-05	−0.016218
−0.000107	−0.000276	−1.12E-06	
104	−0.000761	−3.70E-05	−0.014532
−0.000101	−0.000554	−9.83E-07	
105	−0.000761	−4.01E-05	−0.011370
−9.22E-05	−0.000809	−1.36E-06	
106	−0.000761	−4.39E-05	−0.006987
−8.17E-05	−0.001011	−2.38E-06	
107	−0.000760	−5.05E-05	−0.001686
−9.24E-05	−0.001125	−3.53E-06	
108	−0.000760	−5.32E-05	−3.76E-07
−0.000124	−0.000840	−3.70E-06	
109	−0.000842	−9.78E-05	−3.42E-07
−0.000145	−0.000318	−3.72E-06	
110	−0.000841	−9.78E-05	−0.004055
−0.000184	−0.000307	−3.53E-06	
111	−0.000841	−0.000101	−0.007858
−0.000223	−0.000272	−3.08E-06	
112	−0.000840	−0.000107	−0.010514
−0.000243	−0.000216	−2.57E-06	
113	−0.000840	−0.000113	−0.011739
−0.000246	−0.000163	−2.83E-06	
114	−0.000840	−0.000116	−0.011412
−0.000236	−0.000264	−4.59E-06	
115	−0.000841	−0.000114	−0.009649
−0.000211	−0.000475	−6.70E-06	
116	−0.000842	−0.000105	−0.006817
−0.000171	−0.000645	−8.15E-06	
117	−0.000844	−8.84E-05	−0.003402
−0.000116	−0.000707	−8.34E-06	
118	−0.000847	−6.61E-05	−8.26E-07
−7.93E-05	−0.000646	−7.38E-06	
119	−0.000849	−6.43E-05	−0.002323
−0.000105	−0.000562	−6.45E-06	
120	−0.000852	−7.38E-05	−0.006042
−0.000182	−0.000439	−5.00E-06	
121	−0.000854	−7.96E-05	−0.009668
−0.000245	−0.000339	−3.70E-06	
122	−0.000856	−8.36E-05	−0.012611
−0.000280	−0.000243	−3.14E-06	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	−0.000858	−8.70E-05	−0.014302
−0.000291	−0.000194	−3.31E-06	
124	−0.000858	−8.67E-05	−0.014437
−0.000285	−0.000278	−4.48E-06	
125	−0.000853	−8.36E-05	−0.012981
−0.000268	−0.000456	−5.89E-06	
126	−0.000857	−7.58E-05	−0.010171
−0.000231	−0.000672	−7.47E-06	
127	−0.000856	−5.98E-05	−0.006530
−0.000172	−0.000785	−8.56E-06	
128	−0.000855	−3.82E-05	−0.002602
−9.62E-05	−0.000785	−9.29E-06	
129	−0.000855	−4.57E-05	−8.47E-07
−7.36E-05	−0.000713	−7.49E-06	
130	−0.000854	−6.63E-05	−0.002737
−9.55E-05	−0.000614	−6.49E-06	
131	−0.000852	−9.03E-05	−0.006952
−0.000177	−0.000471	−4.89E-06	
132	−0.000851	−0.000105	−0.010970
−0.000240	−0.000354	−3.52E-06	
133	−0.000850	−0.000115	−0.014203
−0.000278	−0.000243	−2.99E-06	
134	−0.000849	−0.000118	−0.016008
−0.000294	−0.000204	−3.48E-06	
135	−0.000849	−0.000119	−0.016065
−0.000294	−0.000317	−4.39E-06	
136	−0.000848	−0.000116	−0.014357
−0.000278	−0.000531	−6.58E-06	
137	−0.000847	−0.000106	−0.011178
−0.000240	−0.000756	−8.51E-06	
138	−0.000846	−8.93E-05	−0.007153
−0.000177	−0.000867	−9.79E-06	
139	−0.000845	−6.32E-05	−0.002851
−9.53E-05	−0.000860	−9.70E-06	
140	−0.000844	−4.09E-05	−8.45E-07
−7.37E-05	−0.000783	−9.07E-06	
141	−0.000843	−4.66E-05	−0.002689
−9.74E-05	−0.000678	−8.23E-06	
142	−0.000842	−7.50E-05	−0.006778
−0.000176	−0.000525	−6.79E-06	
143	−0.000840	−9.88E-05	−0.010619
−0.000238	−0.000402	−5.54E-06	
144	−0.000838	−0.000116	−0.013653
−0.000277	−0.000278	−4.61E-06	
145	−0.000836	−0.000130	−0.015271
−0.000295	−0.000157	−3.29E-06	
146	−0.000835	−0.000142	−0.015187
−0.000301	−0.000334	−4.97E-06	
147	−0.000834	−0.000146	−0.013422
−0.000288	−0.000538	−6.08E-06	
148	−0.000835	−0.000144	−0.010305
−0.000250	−0.000736	−7.05E-06	
149	−0.000836	−0.000139	−0.006471
−0.000184	−0.000815	−7.89E-06	
150	−0.000837	−0.000110	−0.002513
−0.000105	−0.000774	−7.33E-06	
151	−0.000837	−8.78E-05	−8.88E-07
−7.92E-05	−0.000672	−6.42E-06	
152	−0.000839	−7.31E-05	−0.004500
−0.000118	−0.000492	−4.97E-06	
153	−0.000840	−7.64E-05	−0.009228
−0.000178	−0.000322	−3.36E-06	
154	−0.000840	−7.85E-05	−0.013513
−0.000221	−0.000169	−2.09E-06	
155	−0.000840	−7.52E-05	−0.016769
−0.000249	−0.000053	−1.20E-06	
156	−0.000840	−6.83E-05	−0.018519
−0.000264	−7.73E-05	−1.48E-06	
157	−0.000840	−6.01E-05	−0.018488
−0.000270	−0.000283	−2.76E-06	
158	−0.000840	−5.55E-05	−0.016611
−0.000268	−0.000599	−5.20E-06	
159	−0.000839	−5.55E-05	−0.013030
−0.000252	−0.000901	−8.26E-06	
160	−0.000839	−5.75E-05	−0.008021
−0.000217	−0.001149	−1.07E-05	
161	−0.000838	−6.05E-05	−0.001936
−0.000162	−0.001298	−1.20E-05	
162	−0.000838	−6.16E-05	−3.72E-07
−0.000150	−0.001307	−1.22E-05	
163	−0.000704	−7.12E-05	−8.22E-05
−0.000189	−0.000288	−7.42E-05	
164	−0.000704	−9.19E-05	−0.003040
−3.03E-05	−0.000278	−5.93E-05	
165	−0.000703	−0.000112	−0.005875
−3.19E-05	−0.000245	−5.85E-05	
166	−0.000703	−0.000125	−0.007901
−4.86E-05	−0.000191	−5.37E-05	
167	−0.000703	−0.000129	−0.008879
−6.74E-05	−0.000124	−4.80E-05	
168	−0.000703	−0.000125	−0.008698
−8.54E-05	−0.000138	−4.78E-05	
169	−0.000703	−0.000113	−0.007428
−0.000103	−0.000318	−5.53E-05	
170	−0.000703	−9.58E-05	−0.005318
−0.000124	−0.000464	−5.99E-05	
171	−0.000703	−8.03E-05	−0.002714
−0.000132	−0.000536	−5.96E-05	
172	−0.000702	−7.20E-05	−4.79E-05
−8.57E-05	−0.000525	−4.83E-05	

JOINT DISPLACEMENTS

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	−0.000702	−7.33E-05	−0.001864
−8.08E-05	−0.000481	−4.13E-05	
174	−0.000702	−7.99E-05	−0.004742
−0.000101	−0.000400	−3.44E-05	
175	−0.000701	−9.21E-05	−0.007526
−0.000107	−0.000319	−2.57E-05	
176	−0.000701	−0.000104	−0.009792
−0.000110	−0.000230	−2.18E-05	
177	−0.000701	−0.000112	−0.011110
−0.000111	−0.000157	−3.04E-05	
178	−0.000701	−0.000112	−0.011241
−0.000113	−0.000176	−4.85E-05	
179	−0.000702	−0.000102	−0.010152
−0.000120	−0.000323	−7.22E-05	
180	−0.000702	−8.58E-05	−0.008013
−0.000125	−0.000498	−9.14E-05	
181	−0.000702	−6.79E-05	−0.005210
−0.000127	−0.000597	−0.000103	
182	−0.000702	−5.33E-05	−0.002128
−0.000107	−0.000619	−9.73E-05	
183	−0.000702	−5.17E-05	−4.79E-05
−6.89E-05	−0.000584	−8.66E-05	
184	−0.000702	−5.70E-05	−0.002261
−8.77E-05	−0.000527	−8.75E-05	
185	−0.000702	−7.73E-05	−0.005622
−0.000112	−0.000428	−8.32E-05	
186	−0.000702	−9.82E-05	−0.008785
−0.000118	−0.000332	−7.12E-05	
187	−0.000702	−0.000115	−0.011322
−0.000119	−0.000229	−5.82E-05	
188	−0.000702	−0.000124	−0.012742
−0.000117	−0.000162	−4.36E-05	
189	−0.000703	−0.000125	−0.012796
−0.000117	−0.000225	−3.75E-05	
190	−0.000703	−0.000117	−0.011469
−0.000121	−0.000407	−4.15E-05	
191	−0.000703	−0.000101	−0.008982
−0.000121	−0.000590	−5.48E-05	
192	−0.000703	−8.01E-05	−0.005811
−0.000115	−0.000682	−6.44E-05	
193	−0.000703	−5.88E-05	−0.002367
−9.06E-05	−0.000693	−6.28E-05	
194	−0.000703	−5.20E-05	−4.77E-05
−6.73E-05	−0.000650	−5.65E-05	
195	−0.000703	−5.28E-05	−0.002209
−0.000105	−0.000585	−5.95E-05	
196	−0.000703	−7.01E-05	−0.005438
−0.000129	−0.000477	−5.80E-05	
197	−0.000704	−9.62E-05	−0.008425
−0.000131	−0.000377	−5.49E-05	
198	−0.000704	−0.000119	−0.010765
−0.000128	−0.000262	−4.22E-05	
199	−0.000704	−0.000133	−0.012003
−0.000123	−0.000187	−5.25E-05	
200	−0.000705	−0.000139	−0.011923
−0.000122	−0.000256	−6.03E-05	
201	−0.000705	−0.000135	−0.010549
−0.000123	−0.000428	−7.41E-05	
202	−0.000705	−0.000122	−0.008133
−0.000120	−0.000581	−8.86E-05	
203	−0.000704	−0.000105	−0.005157
−0.000113	−0.000638	−9.55E-05	
204	−0.000704	−9.45E-05	−0.002051
−8.65E-05	−0.000612	−8.58E-05	
205	−0.000704	−9.28E-05	−5.97E-05
−8.53E-05	−0.000544	−7.95E-05	
206	−0.000704	−9.09E-05	−0.003710
−0.000135	−0.000423	−7.39E-05	
207	−0.000704	−8.96E-05	−0.007473
−0.000130	−0.000296	−6.11E-05	
208	−0.000704	−9.47E-05	−0.010836
−0.000110	−0.000169	−4.90E-05	
209	−0.000705	−0.000106	−0.013365
−9.34E-05	−5.07E-05	−3.95E-05	
210	−0.000705	−0.000108	−0.014686
−7.72E-05	−5.29E-05	−3.60E-05	
211	−0.000706	−0.000106	−0.014594
−6.05E-05	−0.000256	−5.09E-05	
212	−0.000706	−9.78E-05	−0.013051
−4.64E-05	−0.000514	−7.94E-05	
213	−0.000706	−8.37E-05	−0.010190
−3.90E-05	−0.000740	−9.93E-05	
214	−0.000706	−6.37E-05	−0.006259
−3.92E-05	−0.000908	−0.000121	
215	−0.000706	−4.24E-05	−0.001561
−0.000103	−0.001085	−9.85E-05	
216	−0.000707	−3.88E-05	−8.48E-05
−0.000221	−0.000979	−0.000110	
217	−0.000800	−9.05E-05	−0.000149
−0.000189	−0.000334	−7.40E-05	
218	−0.000800	−8.66E-05	−0.003867
−0.000136	−0.000446	−6.52E-05	
219	−0.000799	−8.60E-05	−0.007479
−0.000197	−0.000400	−6.32E-05	
220	−0.000799	−8.95E-05	−0.010025
−0.000220	−0.000356	−5.99E-05	
221	−0.000799	−9.17E-05	−0.011210
−0.000229	−0.000318	−5.88E-05	
222	−0.000799	−9.27E-05	−0.010912
−0.000231	−0.000395	−6.10E-05	

JOINT DIS

243	-0.000805	-9.82E-05	-0.015422
-0.000285	-0.000461	-5.73E-05	
244	-0.000805	-9.67E-05	-0.013781
-0.000279	-0.000660	-6.21E-05	
245	-0.000804	-9.01E-05	-0.010738
-0.000254	-0.000873	-7.76E-05	
246	-0.000804	-7.76E-05	-0.006892
-0.000203	-0.000971	-8.72E-05	
247	-0.000803	-5.81E-05	-0.002763
-0.000109	-0.000943	-8.23E-05	
248	-0.000802	-4.10E-05	-0.000111
-5.73E-05	-0.000814	-7.06E-05	
249	-0.000801	-3.29E-05	-0.002598
-0.000114	-0.000720	-7.09E-05	
250	-0.000800	-4.92E-05	-0.006513
-0.000203	-0.000639	-7.14E-05	
251	-0.000799	-7.10E-05	-0.010176
-0.000253	-0.000529	-6.60E-05	
252	-0.000798	-8.97E-05	-0.013074
-0.000279	-0.000415	-6.10E-05	
253	-0.000797	-0.000106	-0.014625
-0.000287	-0.000379	-5.85E-05	
254	-0.000796	-0.000120	-0.014543
-0.000293	-0.000484	-6.47E-05	
255	-0.000796	-0.000128	-0.012848
-0.000289	-0.000673	-8.97E-05	
256	-0.000796	-0.000129	-0.009869
-0.000265	-0.000857	-0.000100	
257	-0.000797	-0.000121	-0.006213
-0.000217	-0.000922	-0.000107	
258	-0.000798	-0.000104	-0.002426
-0.000122	-0.000862	-9.53E-05	
259	-0.000798	-8.58E-05	-0.000123
-7.86E-05	-0.000714	-8.40E-05	
260	-0.000799	-5.67E-05	-0.004338
-0.000152	-0.000603	-7.86E-05	
261	-0.000800	-4.48E-05	-0.008859
-0.000206	-0.000444	-6.45E-05	
262	-0.000801	-3.98E-05	-0.012939
-0.000232	-0.000304	-5.34E-05	
263	-0.000801	-4.00E-05	-0.016045
-0.000244	-0.000189	-4.54E-05	
264	-0.000801	-4.18E-05	-0.017709
-0.000248	-0.000237	-4.54E-05	
265	-0.000801	-4.32E-05	-0.017662
-0.000246	-0.000148	-5.88E-05	
266	-0.000800	-4.51E-05	-0.015841
-0.000239	-0.000743	-8.24E-05	
267	-0.000800	-4.68E-05	-0.012405
-0.000226	-0.001018	-0.000109	
268	-0.000800	-4.91E-05	-0.007628
-0.000188	-0.001234	-0.000135	
269	-0.000799	-5.38E-05	-0.001828
-0.000144	-0.001288	-0.000101	
270	-0.000799	-5.47E-05	-0.000127
-0.000208	-0.001222	-0.000120	
271	-0.000697	-7.66E-06	.000000
-2.85E-05	-0.000281	-9.13E-06	
272	-0.001165	-6.47E-05	.000000
-3.01E-05	-0.000472	-5.01E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
-2.26E-05	-0.000533	-5.69E-06	
274	-0.001215	-5.00E-06	.000000
-1.29E-05	-0.000600	-6.74E-06	
275	-0.0008777	-2.54E-05	.000000
-4.20E-05	-0.000498	-5.54E-06	
276	-0.000916	-9.02E-06	.000000
-2.93E-05	-0.000874	-3.35E-06	
277	-0.000998	-4.55E-05	.000000
-4.07E-05	-0.000297	-2.33E-06	
278	-0.001386	-7.64E-05	.000000
-3.95E-05	-0.000573	-3.15E-06	
279	-0.000001	-2.20E-20	.000000
-2.15E-05	-0.000636	-3.03E-06	
280	-0.001430	-5.79E-06	.000000
-1.50E-05	-0.000705	-4.46E-06	
281	-0.001095	-2.46E-05	.000000
-1.10E-05	-0.000601	-2.17E-06	
282	-0.001034	-4.99E-05	.000000
-1.59E-05	-0.001136	-3.70E-06	
283	-0.001196	2.20E-20	.000000
-0.000140	-0.000300	-3.72E-06	
284	-0.001539	-7.04E-05	.000000
-0.000196	-0.000612	-7.38E-06	
285	-3.45E-06	-0.000117	.000000
-9.04E-05	-0.000710	-7.06E-06	
286	-0.001531	-0.000392	.000000
-1.21E-06	-0.000780	-9.07E-06	
287	-0.001212	-0.000263	.000000
-2.11E-05	-0.000675	-6.42E-06	
288	-0.001106	-0.000227	.000000
1.16E-20	-0.001312	-1.20E-05	

COMB DL-G3-4 ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000836	8.60E-05	5.78E-08
0.000101	0.000786	1.04E-05	
2	0.000835	0.000104	0.001475
0.000176	0.000737	8.53E-06	
3	0.000835	0.000125	0.002977
0.000268	0.000591	4.95E-06	
4	0.000836	0.000136	0.004223
0.000334	0.000383	2.60E-06	
5	0.000836	0.000138	0.005090
0.000368	0.000151	2.10E-06	
6	0.000836	0.000130	0.005449
0.000368	7.09E-06	3.21E-06	
7	0.000837	0.000114	0.005183
0.000330	0.000121	4.85E-06	
8	0.000837	8.85E-05	0.004210
0.000256	0.000270	6.48E-06	
9	0.000838	6.96E-05	0.002471
0.000168	0.000424	7.47E-06	
10	0.000839	4.07E-05	8.84E-08
9.57E-05	0.000564	7.93E-06	
11	0.000840	3.93E-05	0.002008
0.000115	0.000640	9.40E-06	
12	0.000841	5.34E-05	0.004509
0.000211	0.000674	8.22E-06	
13	0.000841	7.09E-05	0.006481
0.000306	0.000611	5.88E-06	
14	0.000841	8.65E-05	0.007864
0.000378	0.000450	4.23E-06	
15	0.000842	9.59E-05	0.008567
0.000419	0.000263	3.78E-06	
16	0.000842	9.78E-05	0.008816
0.000425	0.000160	4.13E-06	
17	0.000843	9.01E-05	0.008342
0.000395	0.000215	5.12E-06	
18	0.000843	7.25E-05	0.007069
0.000327	0.000339	6.67E-06	
19	0.000843	4.60E-05	0.005052
0.000230	0.000478	7.88E-06	
20	0.000842	2.09E-05	0.002308
0.000126	0.000618	8.35E-06	
21	0.000842	2.29E-05	1.17E-07
7.67E-05	0.000702	8.55E-06	
22	0.000843	3.69E-05	0.002219
0.000116	0.000760	1.00E-05	
23	0.000843	6.90E-05	0.004943
0.000219	0.000767	8.85E-06	
24	0.000843	0.000101	0.007055
0.000318	0.000678	6.44E-06	
25	0.000843	0.000123	0.008501
0.000392	0.000484	4.63E-06	
26	0.000844	0.000135	0.009162
0.000430	0.000275	4.07E-06	
27	0.000844	0.000137	0.009251
0.000431	0.000186	4.30E-06	
28	0.000844	0.000127	0.008631
0.000394	0.000251	5.17E-06	
29	0.000844	0.000106	0.007200
0.000320	0.000371	6.68E-06	
30	0.000845	7.49E-05	0.005070
0.000221	0.000495	7.86E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	0.000845	4.12E-05	0.002287
0.000116	0.000618	8.33E-06	
32	0.000845	2.41E-05	1.31E-07
7.55E-05	0.000689	8.76E-06	
33	0.000845	2.18E-05	0.002477
0.000126	0.000734	1.02E-05	
34	0.000846	4.98E-05	0.005537
0.000233	0.000725	8.93E-06	
35	0.000846	8.03E-05	0.007932
0.000332	0.000625	6.44E-06	
36	0.000846	0.000102	0.009597
0.000404	0.000428	4.85E-06	
37	0.000846	0.000114	0.010416
0.000438	0.000230	4.10E-06	
38	0.000846	0.000116	0.010651
0.000433	0.000181	4.36E-06	
39	0.000847	0.000109	0.009964
0.000393	0.000278	5.28E-06	
40	0.000848	9.20E-05	0.008334
0.000318	0.000419	6.76E-06	
41	0.000848	6.75E-05	0.005885
0.000222	0.000570	8.07E-06	
42	0.000848	4.56E-05	0.002661
0.000126	0.000715	8.72E-06	
43	0.000849	3.93E-05	8.66E-08
0.000109	0.000800	9.11E-06	
44	0.000850	4.13E-05	0.002809
0.000196	0.000863	1.20E-05	
45	0.000851	6.36E-05	0.004920
0.000303	0.000824	1.04E-05	
46	0.000852	9.07E-05	0.006282
0.000396	0.000679	8.11E-06	
47	0.000853	0.000116	0.006933
0.000455	0.000444	6.78E-06	
48	0.000853	0.000134	0.006930
0.000477	0.000220	6.36E-06	
49	0.000854	0.000143	0.006365
0.000462	0.000182	5.82E-06	
50	0.000855	0.000144	0.005342
0.000411	0.000242	6.20E-06	
51	0.000856	0.000136	0.003967
0.000329	0.000302	7.03E-06	
52	0.000857	0.000121	0.002341
0.000218	0.000344	7.64E-06	
53	0.000858	0.000105	0.000551
9.46E-05	0.000366	8.29E-06	
54	0.000858	0.000103	5.38E-08
7.37E-05	0.000367	8.32E-06	
55	0.000859	0.000117	4.01E-08
5.09E-05	0.000884	2.98E-06	
56	0.000884	0.000108	0.001478
0.000134	0.000818	2.44E-06	
57	0.000884	0.000106	0.002986
0.000256	0.000641	1.67E-06	
58	0.000884	0.000105	0.004244
0.000345	0.000407	1.18E-06	
59	0.000885	0.000101	0.005127
0.000390	0.000165	8.79E-07	
60	0.000885	9.16E-05	0.005509
0.000386	1.74E-05	1.10E-06	
61	0.000886	7.88E-05	0.005269
0.000336	0.000114	1.76E-06	
62	0.000887	6.67E-05	0.004321
0.000253	0.000267	3.16E-06	
63	0.000888	5.83E-05	0.002575
0.000148	0.000432	4.61E-06	
64	0.000890	5.37E-05	6.52E-08
6.26E-05	0.000603	2.98E-06	
65	0.000890	4.47E-05	0.002095
0.000102	0.000699	3.11E-06	
66	0.000892	3.32E-05	0.004629
0.000217	0.000739	3.25E-06	
67	0.000892	3.03E-05	0.006592
0.000324	0.000665	2.90E-06	
68	0.000893	3.23E-05	0.007958
0.000407	0.000487	2.49E-06	
69	0.000893	3.41E-05	0.008640
0.000453	0.000290	2.10E-06	
70	0.000893	3.38E-05	0.008894
0.000457	0.000174	1.76E-06	
71	0.000893	2.93E-05	0.008433
0.000416	0.000214	1.76E-06	
72	0.000893	2.47E-05	0.007179
0.000333	0.000339	2.48E-06	
73	0.000893	1.79E-05	0.005173
0.000222	0.000481	4.01E-06	
74	0.000892	2.38E-05	0.002396
9.92E-05	0.000637	5.11E-06	
75	0.000892	3.60E-05	9.84E-08
3.45E-05	0.000743	3.81E-06	
76	0.000891	4.33E-05	0.002309
9.56E-05	0.000822	3.98E-06	
77	0.000890	5.37E-05	0.005069
0.000221	0.000836	4.04E-06	
78	0.000890	6.89E-05	0.007171
0.000333	0.000738	3.56E-06	
79	0.000889	8.27E-05	0.008600
0.000420	0.000528	2.93E-06	
80	0.000889	9.15E-05	0.009247
0.000466	0.000310	2.40E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
81	0.000888	9.33E-05	0.009336
0.000467	0.000199	1.88E-06	
82	0.000888	8.77E-05	0.008730
0.000422	0.000251	1.72E-06	
83	0.000887	7.57E-05	0.007317
0.000337	0.000371	2.49E-06	
84	0.000887	6.02E-05	0.005197
0.000224	0.000498	4.05E-06	
85	0.000886	4.70E-05	0.002378
9.69E-05	0.000618	5.24E-06	
86	0.000886	3.67E-05	1.14E-07
3.02E-05	0.000732	4.23E-06	
87	0.000885	2.28E-05	0.002566
9.75E-05	0.000799	4.43E-06	
88	0.000884	2.02E-05	0.005658
0.000224	0.000798	4.63E-06	
89	0.000884	3.40E-05	0.008040
0.000340	0.000690	4.38E-06	
90	0.000883	5.05E-05	0.009685
0.000427	0.000478	3.81E-06	
91	0.000882	6.43E-05	0.010478
0.000472	0.000273	2.91E-06	
92	0.000881	7.33E-05	0.010725
0.000470	0.000194	2.00E-06	
93	0.000881	7.63E-05	0.010053
0.000425	0.000278	1.39E-06	
94	0.000880	7.45E-05	0.008445
0.000340	0.000419	1.57E-06	
95	0.000881	6.98E-05	0.006009
0.000231	0.000574	3.79E-06	
96	0.000881	6.66E-05	0.002754
0.000113	0.000737	5.73E-06	
97	0.000882	6.40E-05	5.50E-08
7.77E-05	0.000846	4.42E-06	
98	0.000883	4.85E-05	0.002910
0.000170	0.000938	4.82E-06	
99	0.000885	3.57E-05	0.005026
0.000296	0.000903	5.53E-06	
100	0.000887	3.75E-05	0.006362
0.000401	0.000749	5.87E-06	
101	0.000889	5.34E-05	0.006985
0.000477	0.000489	5.77E-06	
102	0.000890	7.19E-05	0.006959
0.000514	0.000273	5.09E-06	
103	0.000892	8.82E-05	0.006378
0.000505	0.000191	4.07E-06	
104	0.000893	0.000101	0.005346
0.000450	0.000245	2.98E-06	
105	0.000893	0.000109	0.003967
0.000350	0.000304	2.31E-06	
106	0.000893	0.000114	0.002341
0.000212	0.000345	3.11E-06	
107	0.000892	0.000121	0.000552
6.47E-05	0.000367	5.37E-06	
108	0.000892	0.000124	3.72E-08
6.20E-05	0.000893	5.73E-06	
109	0.000901	0.000114	5.75E-08
7.14E-05	0.000904	8.73E-06	
110	0.000901	0.000114	0.001486
0.000141	0.000834	8.25E-06	
111	0.000901	0.000127	0.003004
0.000225	0.000651	6.73E-06	
112	0.000901	0.000146	0.004275
0.000289	0.000406	4.45E-06	
113	0.000902	0.000157	0.005176
0.000322	0.000153	2.46E-06	
114	0.000903	0.000154	0.005578
0.000319	2.66E-05	1.95E-06	
115	0.000904	0.000138	0.005355
0.000284	0.000114	3.50E-06	
116	0.000906	0.000111	0.004407
0.000218	0.000273	5.42E-06	
117	0.000908	7.87E-05	0.002631
0.000134	0.000445	6.91E-06	
118	0.000909	4.99E-05	8.76E-08
7.36E-05	0.000619	7.60E-06	
119	0.000911	5.01E-05	0.002138
9.44E-05	0.000715	7.84E-06	
120	0.000912	6.89E-05	0.004717
0.000183	0.000756	7.81E-06	
121	0.000913	9.08E-05	0.006696
0.000269	0.000681	7.10E-06	
122	0.000913	0.000111	0.008058
0.000334	0.000495	5.95E-06	
123	0.000914	0.000126	0.008732
0.000370	0.000290	4.75E-06	
124	0.000914	0.000129	0.008981
0.000375	0.000184	4.11E-06	
125	0.000914	0.000118	0.008529
0.000347	0.000317	4.49E-06	
126	0.000913	9.45E-05	0.007279
0.000285	0.000343	5.74E-06	
127	0.000913	6.34E-05	0.005259
0.000197	0.000490	7.35E-06	
128	0.000912	3.15E-05	0.002439
9.70E-05	0.000652	8.49E-06	
129	0.000912	3.32E-05	1.24E-07
6.12E-05	0.000760	8.81E-06	
130	0.000912	5.40E-05	0.002354
9.02E-05	0.000839	8.90E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
131	0.000911	9.29E-05	0.005160
0.000189	0.000856	8.52E-06	
132	0.000911	7.46E-05	0.007277
0.000279	0.000758	7.45E-06	
133	0.000911	0.000156	0.008702
0.000346	0.000543	6.12E-06	
134	0.000911	0.000171	0.009339
0.000381	0.000319	5.00E-06	
135	0.000912	0.000171	0.009428
0.000382	0.000205	4.44E-06	
136	0.000912	0.000157	0.008833
0.000348	0.000253	4.87E-06	
137	0.000912	0.000129	0.007424
0.000282	0.000375	6.13E-06	
138	0.000912	9.24E-05	0.005288
0.000191	0.000507	7.58E-06	
139	0.000912	5.24E-05	0.002423
9.04E-05	0.000654	8.54E-06	
140	0.000912	3.16E-05	1.40E-07
6.04E-05	0.000750	8.85E-06	
141	0.000911	4.03E-05	0.002609
9.70E-05	0.000818	8.94E-06	
142	0.000913	7.55E-05	0.005744
0.000200	0.000821	8.52E-06	
143	0.000909	0.000110	0.008139
0.000291	0.000715	7.54E-06	
144	0.000908	0.000137	0.009779
0.000356	0.000498	6.03E-06	
145	0.000907	0.000152	0.010565
0.000387	0.000289	4.86E-06	
146	0.000907	0.000153	0.010805
0.000384	0.000197	4.25E-06	
147	0.000906	0.000139	0.010146
0.000347	0.000279	4.68E-06	
148	0.000906	0.000118	0.008546
0.000281	0.000422	5.73E-06	
149	0.000906	9.15E-05	0.006098
0.000193	0.000582	7.53E-06	
150	0.000907	7.19E-05	0.002799
0.000104	0.000753	8.73E-06	
151	0.000908	6.20E-05	8.54E-08
8.78E-05	0.000865	9.20E-06	
152	0.000910	6.86E-05	0.002964
0.000161	0.000962	9.64E-06	
153	0.000912	0.000101	0.005108
0.000263	0.000934	9.45E-06	
154	0.000914	0.000135	0.006441
0.000349	0.000782	8.90E-06	
155	0.000917	0.000163	0.007044
0.000406	0.000529	7.69E-06	
156	0.000919	0.000179	0.006994
0.000428	0.000299	6.64E-06	
157	0.000921	0.000182	0.006394
0.000415	0.000190	5.91E-06	
158	0.000922	0.000172	0.005349
0.000371	0.000248	6.25E-06	
159	0.000923	0.000153	0.003965
0.000296	0.000307	7.56E-06	
160	0.000923	0.000133	0.002337
0.000192	0.000347	8.60E-06	
161	0.000922	0.000125	0.000551
7.46E-05	0.000369	9.07E-06	
162	0.000922	0.000123	5.08E-08
5.15E-05	0.000370	9.07E-06	
163	0.000863	9.20E-05	4.38E-05
4.67E-05	0.000958	0.000143	
164	0.000862	0.000109	0.001470
0.000151	0.000864	0.000108	
165	0.000861	0.000124	0.002974
0.000313	0.000712	9.68E-05	
166	0.000861	0.000133	0.004225
0.000410	0.000494	7.66E-05	
167	0.000861	0.000132	0.005099
0.000456	0.000262	5.77E-05	
168	0.000861	0.000121	0.005466
0.000454	0.000104	4.91E-05	
169	0.000861	0.000104	0.005210
0.000402	0.000202	5.05E-05	
170	0.000862	8.05E-05	0.004247
0.000308	0.000348	5.55E-05	
171	0.000863	5.68E-05	0.002501
0.000169	0.000502	6.51E-05	
172	0.000864	4.03E-05	2.06E-05
4.15E-05	0.000627	6.69E-05	
173	0.000865	3.83E-05	0.002030
9.32E-05	0.000746	7.62E-05	
174	0.000866	4.48E-05	0.004551
0.000239	0.000795	8.44E-05	
175	0.000867	5.60E-05	0.006521
0.000366	0.000733	7.77E-05	
176	0.000867	6.78E-05	0.007897
0.000460	0.000564	6.58E-05	
177	0.000867	7.58E-05	0.008588
0.000509	0.000376	5.73E-05	
178	0.000868	7.63E-05	0.008843
0.000517	0.000260	5.67E-05	
179	0.000868	6.83E-05	0.008373
0.000479	0.000299	6.19E-05	
180	0.000867	5.23E-05	0.007108
0.000391	0.000420	7.00E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	0.000867	3.38E-05	0.005094
0.000262	0.000555	7.94E-05	
182	0.000867	1.71E-05	0.002331
0.000104	0.000665	8.21E-05	
183	0.000867	1.93E-05	2.30E-05
2.08E-05	0.000760	8.32E-05	
184	0.000867	3.45E-05	0.002243
9.31E-05	0.000866	9.82E-05	
185	0.000867	6.30E-05	0.004989
0.000248	0.000690	0.000109	
186	0.000866	9.01E-05	0.007098
0.000382	0.000802	0.000103	
187	0.000866	0.000111	0.008537
0.000478	0.000600	8.75E-05	
188	0.000866	0.000124	0.009192
0.000393	0.000390	6.48E-05	
189	0.000866	0.000126	0.009280
0.000525	0.000286	4.60E-05	
190	0.000865	0.000117	0.008666
0.000481	0.000335	3.97E-05	
191	0.000865	9.74E-05	0.007242
0.000387	0.000452	4.76E-05	
192	0.000865	7.05E-05	0.005115
0.000252	0.000573	5.91E-05	
193	0.000865	3.94E-05	0.002311
9.58E-05	0.000667	6.63E-05	
194	0.000865	2.08E-05	2.26E-05
1.90E-05	0.000750	6.96E-05	
195	0.000865	1.78E-05	0.002501
0.000103	0.000864	8.43E-05	
196	0.000865	3.59E-05	0.005580
0.000265	0.000850	9.48E-05	
197	0.000864	6.33E-05	0.007970
0.000398	0.000751	8.94E-05	
198	0.000864	8.50E-05	0.009626
0.000491	0.000545	7.67E-05	
199	0.000863	9.84E-05	0.010433
0.000531	0.000347	6.23E-05	
200	0.000863	0.000103	0.010675
0.000526	0.000282	5.67E-05	
201	0.000862	9.92E-05	0.009994
0.000478	0.000363	6.15E-05	
202	0.000863	8.76E-05	0.008373
0.000382	0.000500	7.32E-05	
203	0.000863	6.88E-05	0.005929
0.000251	0.000649	8.52E-05	
204	0.000863	4.99E-05	0.002688
0.000102	0.000767	8.99E-05	
205	0.000864	4.30E-05	3.78E-05
4.86E-05	0.000897	0.000100	
206	0.000866	3.91E-05	0.002835
0.000187	0.000990	0.000117	
207	0.000867	5.02E-05	0.004953
0.000347	0.000954	0.000115	
208	0.000869	6.95E-05	0.006306
0.000465	0.000804	0.000102	
209	0.000870	9.37E-05	0.006947
0.000543	0.000561	7.99E-05	
210	0.000871	0.000114	0.006937
0.000573	0.000340	5.82E-05	
211	0.000872	0.000127	0.006367
0.000557	0.000285	5.19E-05	
212	0.000873	0.000133	0.005343
0.000499	0.000328	5.43E-05	
213	0.000873	0.000131	0.003970
0.000397	0.000378	5.71E-05	
214	0.000873	0.000120	0.002348
0.000246	0.000410	5.98E-05	
215	0.000874	0.000107	0.000565
4.76E-05	0.000368	4.04E-05	
216	0.000873	0.000101	4.12E-05
4.85E-05	0.000365	4.97E-05	
217	0.000892	0.000114	0.000108
7.56E-05	0.001087	0.000147	
218	0.000892	0.000106	0.001487
0.000144	0.000953	0.000111	
219	0.000892	0.000107	0.003001
0.000297	0.000780	9.77E-05	
220	0.000892	0.000111	0.004266
0.000395	0.000542	7.78E-05	
221	0.000892	0.000114	0.005160
0.000440	0.000296	6.02E-05	
222	0.000893	0.000109	0.005555
0.000434	0.000189	5.56E-05	
223	0.000894	9.62E-05	0.005327
0.000383	0.000237	5.95E-05	
224	0.000896	7.76E-05	0.004380
0.000297	0.000385	6.63E-05	
225	0.000897	6.12E-05	0.002615
0.000182	0.000552	7.64E-05	
226	0.000899	4.94E-05	7.26E-05
8.35E-05	0.000676	7.99E-05	
227	0.000900	4.25E-05	0.002123
0.000128	0.000815	8.88E-05	
228	0.000901	4.09E-05	0.004688
0.000251	0.000874	9.87E-05	
229	0.000902	4.98E-05	0.006659
0.000358	0.000806	9.19E-05	
230	0.000903	6.15E-05	0.008021

0.000256	0.000611	7.29E-05	
247	0.000899	4.74E-05	0.002409
0.000123	0.000704	7.71E-05	
248	0.000898	3.17E-05	7.23E-05
5.75E-05	0.000796	8.09E-05	
249	0.000898	2.40E-05	0.002595
0.000126	0.000912	9.81E-05	
250	0.000897	4.13E-05	0.005717
0.000262	0.000935	0.000110	
251	0.000896	6.67E-05	0.008107
0.000379	0.000836	0.000103	
252	0.000897	8.96E-05	0.009746
0.000466	0.000621	8.84E-05	
253	0.000894	0.000104	0.010531
0.000508	0.000417	7.01E-05	
254	0.000894	0.000109	0.010777
0.000505	0.000327	6.03E-05	
255	0.000893	0.000103	0.010114
0.000460	0.000397	6.61E-05	
256	0.000893	9.00E-05	0.008512
0.000374	0.000533	7.84E-05	
257	0.000894	7.80E-05	0.006070
0.000265	0.000686	9.18E-05	
258	0.000894	6.80E-05	0.002783
0.000140	0.000803	9.65E-05	
259	0.000895	6.66E-05	8.59E-05
9.26E-05	0.000956	0.000109	
260	0.000897	4.82E-05	0.002950
0.000199	0.001072	0.000131	
261	0.000899	5.67E-05	0.005084
0.000331	0.001048	0.000129	
262	0.000900	7.63E-05	0.006417
0.000442	0.000997	0.000114	
263	0.000903	0.000100	0.007026
0.000521	0.000647	9.17E-05	
264	0.000905	0.000119	0.006984
0.000559	0.000423	7.24E-05	
265	0.000907	0.000129	0.006390
0.000551	0.000320	6.38E-05	
266	0.000907	0.000129	0.005349
0.000496	0.000363	6.49E-05	
267	0.000908	0.000126	0.003965
0.000391	0.000412	6.80E-05	
268	0.000907	0.000124	0.002335
0.000234	0.000441	7.12E-05	
269	0.000906	0.000122	0.000543
4.99E-05	0.000376	4.71E-05	
270	0.000905	0.000120	0.000103
6.13E-05	0.000371	5.77E-05	
271	0.000607	1.56E-05	.000000
0.000114	0.000785	1.04E-05	
272	0.001442	8.08E-05	.000000
0.000110	0.000558	7.33E-06	
273	.000000	.000000	.000000
9.27E-05	0.000699	8.55E-06	
274	0.001716	5.37E-06	.000000
7.87E-05	0.000688	8.76E-06	
275	0.000937	3.90E-05	.000000
0.000158	0.000791	9.11E-06	
276	0.001952	1.92E-05	.000000
6.99E-05	0.000368	8.32E-06	
277	0.000651	8.62E-05	.000000
0.000101	0.000882	2.98E-06	
278	0.001530	8.59E-05	.000000
6.57E-05	0.000601	2.98E-06	
279	.000000	.000000	.000000
4.36E-05	0.000742	3.81E-06	
280	0.001803	5.70E-06	.000000
3.50E-05	0.000732	4.23E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.001009	2.26E-05	.000000
4.21E-05	0.000848	4.42E-06	
282	0.002090	0.000101	.000000
2.79E-05	0.000371	5.73E-06	
283	0.000683	6.44E-05	.000000
0.000220	0.000882	8.73E-06	
284	0.001543	4.02E-05	.000000
0.000176	0.000589	7.60E-06	
285	2.55E-06	8.63E-05	.000000
7.99E-05	0.000758	8.81E-06	
286	0.001789	0.000417	.000000
8.75E-07	0.000747	8.85E-06	
287	0.001023	0.000216	.000000
5.43E-21	0.000867	9.20E-06	
288	0.002128	0.000338	.000000
3.89E-05	0.000376	9.07E-06	

COMB DL-G3-4 ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000800	-0.000120	-1.70E-07
-7.63E-05	-0.000330	-8.38E-06	
2	-0.000799	-0.000127	-0.003433
-9.41E-05	-0.000317	-7.60E-06	
3	-0.000799	-0.000146	-0.006707
-0.000121	-0.000277	-5.74E-06	
4	-0.000799	-0.000166	-0.009048
-0.000140	-0.000215	-4.05E-06	
5	-0.000799	-0.000173	-0.010175
-0.000144	-0.000148	-3.36E-06	
6	-0.000799	-0.000169	-0.009963
-0.000139	-0.000180	-3.83E-06	
7	-0.000799	-0.000153	-0.008494
-0.000123	-0.000387	-5.30E-06	
8	-0.000799	-0.000133	-0.006071
-9.38E-05	-0.000544	-7.94E-06	
9	-0.000799	-0.000115	-0.003085
-5.49E-05	-0.000615	-1.00E-05	
10	-0.000799	-0.000112	-3.98E-07
-2.78E-05	-0.000595	-8.34E-06	
11	-0.000799	-0.000109	-0.002107
-4.78E-05	-0.000545	-8.20E-06	
12	-0.000799	-0.000115	-0.005398
-0.000104	-0.000450	-7.87E-06	
13	-0.000800	-0.000132	-0.008592
-0.000151	-0.000357	-6.78E-06	
14	-0.000800	-0.000152	-0.011196
-0.000181	-0.000256	-5.30E-06	
15	-0.000800	-0.000165	-0.012709
-0.000191	-0.000181	-4.15E-06	
16	-0.000800	-0.000164	-0.012858
-0.000186	-0.000213	-3.56E-06	
17	-0.000800	-0.000151	-0.011604
-0.000173	-0.000384	-3.83E-06	
18	-0.000800	-0.000129	-0.009145
-0.000144	-0.000579	-5.53E-06	
19	-0.000799	-0.000105	-0.005932
-9.89E-05	-0.000686	-7.99E-06	
20	-0.000799	-9.03E-05	-0.002409
-4.20E-05	-0.000704	-9.35E-06	
21	-0.000799	-9.20E-05	-4.09E-07
-1.91E-05	-0.000666	-8.07E-06	
22	-0.000799	-9.65E-05	-0.002560
-4.51E-05	-0.000601	-8.11E-06	
23	-0.000799	-0.000115	-0.006399
-0.000105	-0.000487	-7.88E-06	
24	-0.000798	-0.000142	-0.010021
-0.000153	-0.000376	-6.85E-06	
25	-0.000798	-0.000167	-0.012931
-0.000185	-0.000260	-5.37E-06	
26	-0.000798	-0.000180	-0.014560
-0.000197	-0.000188	-4.27E-06	
27	-0.000797	-0.000182	-0.014622
-0.000197	-0.000259	-3.80E-06	
28	-0.000797	-0.000169	-0.013099
-0.000185	-0.000466	-4.25E-06	
29	-0.000797	-0.000145	-0.010248
-0.000153	-0.000671	-6.21E-06	
30	-0.000796	-0.000117	-0.006616
-0.000105	-0.000776	-8.88E-06	
31	-0.000796	-9.79E-05	-0.002683
-4.41E-05	-0.000788	-1.05E-05	
32	-0.000796	-9.25E-05	-4.05E-07
-1.80E-05	-0.000744	-9.61E-06	
33	-0.000796	-9.12E-05	-0.002499
-4.43E-05	-0.000673	-9.82E-06	
34	-0.000795	-0.000111	-0.006192
-0.000104	-0.000549	-9.56E-06	
35	-0.000795	-0.000142	-0.009614
-0.000151	-0.000432	-8.38E-06	
36	-0.000795	-0.000175	-0.012301
-0.000183	-0.000302	-6.87E-06	
37	-0.000795	-0.000196	-0.013721
-0.000197	-0.000215	-5.06E-06	
38	-0.000795	-0.000203	-0.013630
-0.000202	-0.000284	-4.07E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000794	-0.000195	-0.012052
-0.000191	-0.000474	-4.37E-06	
40	-0.000794	-0.000174	-0.009277
-0.000159	-0.000650	-5.89E-06	
41	-0.000794	-0.000148	-0.005867
-0.000109	-0.000721	-8.44E-06	
42	-0.000794	-0.000159	-0.002316
-5.01E-05	-0.000696	-9.61E-06	
43	-0.000794	-0.000140	-4.33E-07
-2.94E-05	-0.000627	-7.77E-06	
44	-0.000794	-0.000130	-0.004218
-6.51E-05	-0.000495	-7.88E-06	
45	-0.000794	-0.000128	-0.008531
-0.000113	-0.000347	-7.31E-06	
46	-0.000794	-0.000138	-0.012396
-0.000153	-0.000199	-6.18E-06	
47	-0.000795	-0.000151	-0.015309
-0.000180	-6.21E-05	-4.94E-06	
48	-0.000795	-0.000159	-0.016839
-0.000194	-4.34E-05	-3.52E-06	
49	-0.000795	-0.000157	-0.016742
-0.000200	-0.000259	-2.74E-06	
50	-0.000795	-0.000145	-0.014970
-0.000191	-0.000550	-3.06E-06	
51	-0.000795	-0.000122	-0.011670
-0.000167	-0.000817	-4.10E-06	
52	-0.000795	-0.000095	-0.007132
-0.000134	-0.001026	-6.11E-06	
53	-0.000795	-8.18E-05	-0.001709
-0.000107	-0.001139	-8.92E-06	
54	-0.000795	-8.14E-05	-1.85E-07
-0.000103	-0.001144	-9.29E-06	
55	-0.000843	-9.47E-05	-3.69E-07
-0.000113	-0.000334	-5.06E-06	
56	-0.000843	-8.86E-05	-0.003862
-0.000158	-0.000320	-3.88E-06	
57	-0.000843	-8.61E-05	-0.007494
-0.000228	-0.000281	-2.05E-06	
58	-0.000843	-8.57E-05	-0.010053
-0.000275	-0.000220	-1.94E-06	
59	-0.000843	-8.48E-05	-0.011261
-0.000293	-0.000165	-2.05E-06	
60	-0.000843	-8.27E-05	-0.010992
-0.000282	-0.000233	-2.80E-06	
61	-0.000844	-7.91E-05	-0.009343
-0.000246	-0.000448	-3.44E-06	
62	-0.000845	-7.25E-05	-0.006645
-0.000189	-0.000616	-3.93E-06	
63	-0.000846	-6.38E-05	-0.003346
-0.000117	-0.000685	-4.03E-06	
64	-0.000847	-5.74E-05	-8.43E-07
-5.27E-05	-0.000638	-3.81E-06	
65	-0.000848	-5.39E-05	-0.002281
-0.000104	-0.000566	-5.06E-06	
66	-0.000849	-5.26E-05	-0.005893
-0.000208	-0.000455	-4.00E-06	
67	-0.000850	-5.20E-05	-0.009393
-0.000288	-0.000358	-2.63E-06	
68	-0.000851	-5.12E-05	-0.012236
-0.000339	-0.000257	-1.98E-06	
69	-0.000851	-4.99E-05	-0.013878
-0.000360	-0.000193	-1.77E-06	
70	-0.000851	-4.87E-05	-0.014027
-0.000353	-0.000256	-1.86E-06	
71	-0.000852	-4.62E-05	-0.012643
-0.000322	-0.000433	-2.09E-06	
72	-0.000851	-4.13E-05	-0.009944
-0.000265	-0.000643	-2.26E-06	
73	-0.000851	-3.50E-05	-0.006426
-0.000186	-0.000759	-3.24E-06	
74	-0.000851	-3.29E-05	-0.002583
-8.98E-05	-0.000769	-3.39E-06	
75	-0.000851	-4.14E-05	-8.61E-07
-3.00E-05	-0.000709	-4.36E-06	
76	-0.000850	-5.04E-05	-0.002732
-9.40E-05	-0.000622	-4.80E-06	
77	-0.000850	-6.29E-05	-0.006887
-0.000201	-0.000491	-3.95E-06	
78	-0.000850	-7.38E-05	-0.010816
-0.000284	-0.000376	-2.65E-06	
79	-0.000850	-8.20E-05	-0.013970
-0.000341	-0.000260	-2.02E-06	
80	-0.000849	-8.30E-05	-0.015733
-0.000368	-0.000200	-1.93E-06	
81	-0.000849	-8.49E-05	-0.015795
-0.000369	-0.000296	-2.09E-06	
82	-0.000849	-8.35E-05	-0.014138
-0.000342	-0.000510	-2.44E-06	
83	-0.000849	-7.77E-05	-0.011043
-0.000285	-0.000732	-3.30E-06	
84	-0.000849	-6.63E-05	-0.007105
-0.000202	-0.000845	-4.23E-06	
85	-0.000849	-5.24E-05	-0.002855
-9.46E-05	-0.000851	-4.72E-06	
86	-0.000849	-4.12E-05	-8.58E-07
-2.64E-05	-0.000786	-5.04E-06	
87	-0.000849	-3.24E-05	-0.002674
-8.99E-05	-0.000692	-6.61E-06	
88	-0.000848	-4.16E-05	-0.006685
-0.000191	-0.000552	-6.04E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	-0.000847	-5.92E-05	-0.010416
-0.000274	-0.000432	-4.97E-06	
90	-0.000847	-7.72E-05	-0.013349
-0.000334	-0.000301	-4.20E-06	
91	-0.000847	-9.32E-05	-0.014905
-0.000367	-0.000228	-3.43E-06	
92	-0.000847	-0.000107	-0.014816
-0.000375	-0.000314	-2.68E-06	
93	-0.000847	-0.000115	-0.013103
-0.000354	-0.000514	-2.04E-06	
94	-0.000847	-0.000117	-0.010082
-0.000300	-0.000706	-1.75E-06	
95	-0.000847	-0.000111	-0.006361
-0.000217	-0.000787	-2.39E-06	
96	-0.000848	-9.77E-05	-0.002490
-0.000106	-0.000756	-2.68E-06	
97	-0.000848	-8.54E-05	-8.82E-07
-5.59E-05	-0.000667	-2.45E-06	
98	-0.000849	-6.47E-05	-0.004492
-0.000123	-0.000504	-4.30E-06	
99	-0.000849	-4.33E-05	-0.009140
-0.000207	-0.000344	-5.22E-06	
100	-0.000851	-3.60E-05	-0.013317
-0.000277	-0.000193	-2.26E-06	
101	-0.000851	-3.14E-05	-0.016470
-0.000332	-5.62E-05	-1.98E-06	
102	-0.000852	-3.00E-05	-0.018140
-0.000366	-6.27E-05	-1.79E-06	
103	-0.000852	-3.10E-05	-0.018063
-0.000375	-0.000273	-1.60E-06	
104	-0.000852	-3.49E-05	-0.016186
-0.000357	-0.000576	-1.45E-06	
105	-0.000852	-3.95E-05	-0.012663
-0.000310	-0.000867	-1.72E-06	
106	-0.000852	-4.43E-05	-0.007779
-0.000237	-0.001103	-2.65E-06	
107	-0.000851	-5.20E-05	-0.001876
-0.000161	-0.001245	-4.44E-06	
108	-0.000851	-5.48E-05	-3.99E-07
-0.000167	-0.001254	-4.74E-06	
109	-0.000865	-9.48E-05	-2.88E-07
-0.000164	-0.000337	-8.06E-06	
110	-0.000864	-9.13E-05	-0.003938
-0.000229	-0.000324	-7.65E-06	
111	-0.000864	-9.87E-05	-0.007657
-0.000298	-0.000285	-6.41E-06	
112	-0.000864	-0.000117	-0.010280
-0.000337	-0.000224	-4.76E-06	
113	-0.000865	-0.000131	-0.011513
-0.000345	-0.000160	-3.59E-06	
114	-0.000865	-0.000135	-0.011226
-0.000325	-0.000260	-4.06E-06	
115	-0.000866	-0.000128	-0.009526
-0.000279	-0.000472	-5.66E-06	
116	-0.000867	-0.000110	-0.006763
-0.000210	-0.000640	-7.04E-06	
117	-0.000868	-8.44E-05	-0.003400
-0.000127	-0.000703	-7.96E-06	
118	-0.000870	-5.84E-05	-6.93E-07
-8.49E-05	-0.000655	-8.21E-06	
119	-0.000874	-6.11E-05	-0.002324
-0.000126	-0.000580	-8.13E-06	
120	-0.000872	-8.23E-05	-0.006009
-0.000229	-0.000463	-7.45E-06	
121	-0.000873	-0.000102	-0.009594
-0.000319	-0.000361	-6.22E-06	
122	-0.000874	-0.000128	-0.012509
-0.000377	-0.000258	-5.05E-06	
123	-0.000874	-0.000128	-0.014191
-0.000401	-0.000196	-4.22E-06	
124	-0.000874	-0.000128	-0.014339
-0.000393	-0.000271	-4.38E-06	
125	-0.000873	-0.000120	-0.012913
-0.000360	-0.000454	-5.52E-06	
126	-0.000873	-0.000102	-0.010143
-0.000297	-0.000668	-6.49E-06	
127	-0.000872	-7.40E-05	-0.006541
-0.000208	-0.000782	-7.70E-06	
128	-0.000871	-4.17E-05	-0.002627
-0.000106	-0.000788	-8.31E-06	
129	-0.000874	-4.16E-05	-7.12E-07
-7.69E-05	-0.000726	-8.37E-06	
130	-0.000871	-5.88E-05	-0.002776
-0.000113	-0.000637	-8.19E-06	
131	-0.000870	-9.25E-05	-0.007004
-0.000221	-0.000500	-7.29E-06	
132	-0.000870	-0.000121	-0.011015
-0.000313	-0.000380	-6.04E-06	
133	-0.000870	-0.000139	-0.014240
-0.000377	-0.000262	-4.81E-06	
134	-0.000870	-0.000148	-0.016043
-0.000408	-0.000206	-4.32E-06	
135	-0.000870	-0.000148	-0.016104
-0.000408	-0.000205	-4.94E-06	
136	-0.000870	-0.000138	-0.014407
-0.000377	-0.000526	-5.99E-06	
137	-0.000870	-0.000119	-0.011240
-0.000314	-0.000753	-7.58E-06	
138	-0.000870	-8.97E-05	-0.007219
-0.000221	-0.000866	-8.89E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	-0.000870	-5.66E-05	-0.002898
-0.000112	-0.000868	-9.56E-06	
140	-0.000869	-4.00E-05	-7.09E-07
-7.64E-05	-0.000803	-9.72E-06	
141	-0.000869	-5.11E-05	-0.002719
-0.000108	-0.000708	-9.64E-06	
142	-0.000868	-8.84E-05	-0.006806
-0.000214	-0.000561	-8.81E-06	
143	-0.000867	-0.000122	-0.010623
-0.000305	-0.000436	-7.53E-06	
144	-0.000866	-0.000147	-0.013629
-0.000371	-0.000304	-5.99E-06	
145	-0.000865	-0.000163	-0.015226
-0.000406	-0.000236	-4.94E-06	
146	-0.000864	-0.000170	-0.015135
-0.000413	-0.000317	-4.96E-06	
147	-0.000864	-0.000165	-0.013379
-0.000387	-0.000524	-5.73E-06	
148	-0.000864	-0.000149	-0.010284
-0.000326	-0.000723	-6.47E-06	
149	-0.000864	-0.000131	-0.006476
-0.000232	-0.000805	-7.29E-06	
150	-0.000864	-0.000103	-0.002531
-0.000127	-0.000772	-7.45E-06	
151	-0.000865	-8.93E-05	-7.47E-07
-8.66E-05	-0.000682	-7.36E-06	
152	-0.000865	-8.82E-05	-0.004563
-0.000138	-0.000517	-6.98E-06	
153	-0.000866	-0.000105	-0.009302
-0.000233	-0.000350	-5.81E-06	
154	-0.000867	-0.000119	-0.013576
-0.000316	-0.000193	-4.38E-06	
155	-0.000868	-0.000123	-0.016809
-0.000378	-5.40E-05	-2.85E-06	
156	-0.000868	-0.000118	-0.018529
-0.000415	-6.84E-05	-2.51E-06	
157	-0.000869	-0.000105	-0.018463
-0.000429	-0.000259	-3.43E-06	
158	-0.000869	-8.76E-05	-0.016553
-0.000418	-0.000579	-5.45E-06	
159	-0.000869	-6.79E-05	-0.012950
-0.000378	-0.000882	-7.98E-06	
160	-0.000869	-5.29E-05	-0.007947
-0.000304	-0.001129	-9.99E-06	
161	-0.000869	-5.77E-05	-0.001913
-0.000201	-0.001277	-1.10E-05	
162	-0.000868	-5.96E-05	-3.11E-07
-0.000178	-0.001287	-1.10E-05	
163	-0.000823	-8.35E-05	-0.000142
-0.000197	-0.000348	-7.60E-05	
164	-0.000822	-0.000100	-0.003739
-0.000136	-0.000405	-6.43E-05	
165	-0.000821	-0.000117	-0.007212
-0.000200	-0.000360	-6.35E-05	
166	-0.000819	-0.000129	-0.009685
-0.000247	-0.000305	-6.00E-05	
167	-0.000821	-0.000132	-0.010865
-0.000269	-0.000255	-5.74E-05	
168	-0.000821	-0.000128	-0.010615
-0.000264	-0.000300	-6.23E-05	
169	-0.000822	-0.000116	-0.009033
-0.000240	-0.000510	-7.41E-05	
170	-0.000822	-9.92E-05	-0.006446
-0.000207	-0.000673	-8.24E-05	
171	-0.000822	-8.28E-05	-0.003277
-0.000158	-0.000741	-8.38E-05	
172	-0.000823	-7.19E-05	-9.00E-05
-9.21E-05	-0.000694	-7.03E-05	
173	-0.000823	-7.27E-05	-0.002247
-0.000125	-0.000600	-6.17E-05	
174	-0.000824	-8.04E-05	-0.005730
-0.000201	-0.000533	-5.75E-05	
175	-0.000824	-9.13E-05	-0.009100
-0.000259	-0.000439	-4.80E-05	
176	-0.000825	-0.000102	-0.011848
-0.000301	-0.000343	-4.24E-05	
177	-0.000825	-0.000109	-0.013442
-0.000320	-0.000282	-4.74E-05	
178	-0.000826	-0.000109	-0.013591
-0.000317	-0.000330	-6.15E-05	
179	-0.000826	-9.92E-05	-0.012254
-0.000295	-0.000502	-8.05E-05	
180	-0.000826	-8.33E-05	-0.009651
-0.000253	-0.000704	-9.55E-05	
181	-0.000826	-6.54E-05	-0.006260
-0.000199	-0.000811	-0.000103	
182	-0.000825	-5.17E-05	-0.002547
-0.000123	-0.000814	-9.40E-05	
183	-0.000825	-5.27E-05	-8.72E-05
-7.20E-05	-0.000728	-8.06E-05	
184	-0.000824	-6.20E-05	-0.002697
-0.000120	-0.000652	-8.08E-05	
185	-0.000824	-8.41E-05	-0.006725
-0.000199	-0.000566	-7.96E-05	
186	-0.000824	-0.000105	-0.010525
-0.000260	-0.000456	-7.25E-05	
187	-0.000823	-0.000122	-0.013581
-0.000305	-0.000344	-6.49E-05	
188	-0.000823	-0.000130	-0.015295
-0.000325	-0.000287	-5.84E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	-0.000823	-0.000132	-0.015357
-0.000326	-0.000375	-5.78E-05	
190	-0.000823	-0.000125	-0.013749
-0.000306	-0.000582	-6.78E-05	
191	-0.000823	-0.000109	-0.010750
-0.000262	-0.000796	-8.42E-05	
192	-0.000823	-8.79E-05	-0.006942
-0.000201	-0.000899	-9.45E-05	
193	-0.000822	-6.43E-05	-0.002819
-0.000122	-0.000895	-8.97E-05	
194	-0.000822	-5.32E-05	-8.70E-05
-7.01E-05	-0.000803	-7.84E-05	
195	-0.000821	-5.24E-05	-0.002638
-0.000124	-0.000720	-7.95E-05	
196	-0.000821	-7.12E-05	-0.006520
-0.000203	-0.000626	-7.90E-05	
197	-0.000820	-0.000100	-0.010121
-0.000261	-0.000511	-7.28E-05	
198	-0.000820	-0.000125	-0.012955
-0.000306	-0.000384	-6.70E-05	
199	-0.000820	-0.000143	-0.014463
-0.000330	-0.000313	-6.43E-05	
200	-0.000820	-0.000152	-0.014373
-0.000334	-0.000398	-7.04E-05	
201	-0.000820	-0.000151	-0.012710
-0.000315	-0.000589	-8.59E-05	
202	-0.000820	-0.000140	-0.009789
-0.000272	-0.000773	-0.000102	
203	-0.000820	-0.000122	-0.006199
-0.000210	-0.000842	-0.000110	
204	-0.000820	-0.000106	-0.002459
-0.000130	-0.000802	-9.92E-05	
205	-0.000820	-9.81E-05	-0.000105
-9.13E-05	-0.000689	-9.63E-05	
206	-0.000820	-8.46E-05	-0.004415
-0.000162	-0.000572	-8.51E-05	
207	-0.000821	-8.14E-05	-0.008925
-0.000222	-0.000421	-7.17E-05	
208	-0.000821	-8.42E-05	-0.012969
-0.000267	-0.000275	-5.98E-05	
209	-0.000822	-9.19E-05	-0.016026
-0.000307	-0.000145	-5.11E-05	
210	-0.000822	-9.68E-05	-0.017644
-0.000330	-0.000147	-4.98E-05	
211	-0.000823	-9.59E-05	-0.017559
-0.000332	-0.000367	-6.63E-05	
212	-0.000823	-9.03E-05	-0.015721
-0.000310	-0.000660	-9.32E-05	
213	-0.000823	-7.98E-05	-0.012293
-0.000267	-0.000935	-0.000121	
214	-0.000823	-6.52E-05	-0.007564
-0.000203	-0.001148	-0.000147	
215	-0.000824	-5.02E-05	-0.001878
-0.000156	-0.001227	-0.000108	
216	-0.000824	-4.82E-05	-0.000128
-0.000212	-0.001191	-0.000131	
217	-0.000854	-9.23E-05	-0.000139
-0.000161	-0.000357	-7.70E-05	
218	-0.000854	-8.66E-05	-0.003961
-0.000195	-0.000445	-6.68E-05	
219	-0.000854	-8.45E-05	-0.007675
-0.000317	-0.000396	-6.58E-05	
220	-0.000853	-8.56E-05	-0.010304
-0.000374	-0.000343	-6.33E-05	
221	-0.000854	-9.05E-05	-0.011538
-0.000389	-0.000297	-6.33E-05	
222	-0.000854	-9.33E-05	-0.011253
-0.000375	-0.000385	-7.09E-05	
223	-0.000854	-9.02E-05	-0.009547
-0.000333	-0.000595	-8.81E-05	
224	-0.000855	-7.97E-05	-0.006780
-0.000262	-0.000761	-9.77E-05	
225	-0.000856	-6.55E-05	-0.003416
-0.000159	-0.000819	-0.000100	
226	-0.000859	-5.48E-05	-0.000106
-6.54E-05	-0.000751	-8.35E-05	
227	-0.000859	-5.18E-05	-0.002332
-0.000133	-0.000634	-7.36E-05	
228	-0.000860	-5.69E-05	-0.006015
-0.000270	-0.000569	-7.23E-05	
229	-0.000861	-6.40E-05	-0.009593
-0.000366	-0.000474	-6.41E-05	
230	-0.000862	-6.99E-05	-0.012506
-0.000427	-0.000378	-5.81E-05	
231	-0.000863	-7.48E-05	-0.014191
-0.000451	-0.000326	-6.18E-05	
232	-0.000863	-7.43E-05	-0.014340
-0.000444	-0.000400	-7.21E-05	
233	-0.000863	-6.88E-05	-0.012913
-0.000413	-0.000578	-8.58E-05	
234	-0.000862	-5.79E-05	-0.010144
-0.000347	-0.000789	-9.79E-05	

250	-0.000858	-5.44E-05	-0.006809
-0.000255	-0.000665	-8.61E-05	
251	-0.000857	-8.02E-05	-0.010618
-0.000357	-0.000547	-7.83E-05	
252	-0.000856	-0.000101	-0.013623
-0.000426	-0.000421	-7.04E-05	
253	-0.000855	-0.000116	-0.015224
-0.000459	-0.000364	-6.41E-05	
254	-0.000855	-0.000126	-0.015133
-0.000466	-0.000452	-6.72E-05	
255	-0.000855	-0.000128	-0.013375
-0.000443	-0.000552	-8.43E-05	
256	-0.000855	-0.000123	-0.010281
-0.000379	-0.000847	-0.000102	
257	-0.000855	-0.000114	-0.006482
-0.000279	-0.000921	-0.000110	
258	-0.000856	-9.88E-05	-0.002538
-0.000138	-0.000871	-9.63E-05	
259	-0.000858	-8.43E-05	-0.000121
-6.74E-05	-0.000738	-8.77E-05	
260	-0.000857	-6.41E-05	-0.004570
-0.000163	-0.000621	-8.27E-05	
261	-0.000858	-6.03E-05	-0.009300
-0.000277	-0.000457	-6.94E-05	
262	-0.000859	-6.03E-05	-0.013559
-0.000364	-0.000307	-5.66E-05	
263	-0.000859	-6.10E-05	-0.016788
-0.000427	-0.000179	-5.10E-05	
264	-0.000860	-5.89E-05	-0.018504
-0.000464	-0.000201	-5.21E-05	
265	-0.000860	-5.27E-05	-0.018434
-0.000474	-0.000401	-6.68E-05	
266	-0.000860	-4.46E-05	-0.016518
-0.000456	-0.000710	-9.23E-05	
267	-0.000860	-4.33E-05	-0.012918
-0.000405	-0.001004	-0.000121	
268	-0.000860	-4.63E-05	-0.007932
-0.000304	-0.001238	-0.000148	
269	-0.000859	-5.26E-05	-0.001907
-0.000160	-0.001323	-0.000109	
270	-0.000859	-5.46E-05	-0.000125
-0.000176	-0.001277	-0.000131	
271	-0.000972	-9.73E-06	.000000
-7.36E-05	-0.000330	-8.38E-06	
272	-0.001452	-8.02E-05	.000000
-4.66E-05	-0.000596	-8.34E-06	
273	.000000	.000000	.000000
-3.36E-05	-0.000666	-8.07E-06	
274	-0.001500	-6.14E-06	.000000
-2.17E-05	-0.000744	-9.61E-06	
275	-0.001116	-3.27E-05	.000000
-6.70E-05	-0.000624	-7.77E-06	
276	-0.001101	-1.05E-05	.000000
-8.31E-05	-0.001146	-9.29E-06	
277	-0.001105	-5.07E-05	.000000
-7.95E-05	-0.000329	-5.06E-06	
278	-0.001543	-8.51E-05	.000000
-6.03E-05	-0.000637	-3.81E-06	
279	.000000	.000000	.000000
-3.87E-05	-0.000708	-3.36E-06	
280	-0.001594	-6.45E-06	.000000
-3.12E-05	-0.000785	-5.04E-06	
281	-0.001219	-2.73E-05	.000000
-2.84E-05	-0.000668	-2.45E-06	
282	-0.001157	-5.58E-05	.000000
-4.83E-05	-0.001263	-4.74E-06	
283	-0.001146	1.50E-20	.000000
-0.000152	-0.000318	-8.06E-06	
284	-0.001571	-7.20E-05	.000000
-0.000200	-0.000619	-8.21E-06	
285	-3.33E-06	-0.000113	.000000
-9.34E-05	-0.000724	-8.37E-06	
286	-0.001573	-0.000404	.000000
-3.75E-06	-0.000801	-9.72E-06	
287	-0.001221	-0.000276	.000000
-2.74E-05	-0.000686	-7.36E-06	
288	-0.001158	-0.000228	.000000
-6.95E-06	-0.001297	-1.11E-05	

< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DB ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000575	0.000166	4.90E-08
7.27E-05	0.000770	9.71E-06	
2	0.000574	0.000175	0.001127
0.000147	0.000704	7.92E-06	
3	0.000574	0.000191	0.002276
0.000236	0.000642	5.72E-06	
4	0.000574	0.000205	0.003236
0.000300	0.000340	3.54E-06	
5	0.000574	0.000205	0.003916
0.000330	0.000137	2.45E-06	
6	0.000574	0.000187	0.004219
0.000327	6.27E-06	3.79E-06	
7	0.000574	0.000153	0.004052
0.000290	8.91E-05	4.99E-06	
8	0.000575	0.000110	0.003336
0.000221	0.000206	5.86E-06	
9	0.000576	7.20E-05	0.001995
0.000144	0.000334	6.87E-06	
10	0.000576	4.16E-05	6.48E-08
7.41E-05	0.000466	7.08E-06	
11	0.000577	5.61E-05	0.001408
7.92E-05	0.000549	8.59E-06	
12	0.000578	8.83E-05	0.002894
0.000161	0.000592	8.95E-06	
13	0.000579	0.000126	0.003797
0.000239	0.000545	7.98E-06	
14	0.000580	0.000155	0.004190
0.000305	0.000415	6.43E-06	
15	0.000580	0.000170	0.004123
0.000345	0.000233	4.23E-06	
16	0.000581	0.000168	0.004475
0.000352	0.000119	3.13E-06	
17	0.000582	0.000149	0.004560
0.000327	0.000158	4.54E-06	
18	0.000582	0.000118	0.004136
0.000268	0.000174	5.42E-06	
19	0.000583	7.83E-05	0.003152
0.000186	0.000260	6.06E-06	
20	0.000583	4.16E-05	0.001532
0.000107	0.000317	6.87E-06	
21	0.000583	4.41E-05	6.67E-08
5.71E-05	0.000486	6.77E-06	
22	0.000581	6.73E-05	0.001503
9.05E-05	0.000571	8.40E-06	
23	0.000580	0.000106	0.003106
0.000173	0.000621	8.99E-06	
24	0.000578	0.000146	0.004099
0.000255	0.000581	8.24E-06	
25	0.000578	0.000179	0.004553
0.000321	0.000450	6.74E-06	
26	0.000577	0.000198	0.004487
0.000356	0.000257	4.44E-06	
27	0.000575	0.000198	0.004675
0.000357	0.000129	3.28E-06	
28	0.000574	0.000180	0.004747
0.000323	0.000172	4.72E-06	
29	0.000573	0.000148	0.004277
0.000258	0.000189	5.54E-06	
30	0.000572	0.000107	0.003242
0.000175	0.000269	6.11E-06	
31	0.000571	6.72E-05	0.001569
9.22E-05	0.000402	7.22E-06	
32	0.000571	4.26E-05	7.15E-08
5.62E-05	0.000497	7.53E-06	
33	0.000570	4.64E-05	0.001557
0.000106	0.000584	9.15E-06	
34	0.000569	9.88E-05	0.003223
0.000188	0.000637	9.84E-06	
35	0.000569	0.000134	0.004261
0.000272	0.000598	9.34E-06	
36	0.000568	0.000173	0.004741
0.000333	0.000469	7.80E-06	
37	0.000567	0.000198	0.004739
0.000361	0.000273	5.46E-06	
38	0.000567	0.000204	0.005277
0.000354	0.000134	4.06E-06	
39	0.000566	0.000192	0.005354
0.000313	0.000177	5.37E-06	
40	0.000566	0.000165	0.004821
0.000244	0.000196	6.19E-06	
41	0.000566	0.000131	0.003652
0.000165	0.000301	6.52E-06	
42	0.000566	9.67E-05	0.001767
8.21E-05	0.000452	7.12E-06	
43	0.000566	7.42E-05	6.40E-08
7.67E-05	0.000558	8.20E-06	
44	0.000566	4.40E-05	0.002253
0.000153	0.000684	1.14E-05	
45	0.000565	9.25E-05	0.003877
0.000245	0.000721	1.20E-05	
46	0.000565	0.000148	0.004885
0.000329	0.000660	1.16E-05	
47	0.000565	0.000198	0.005340
0.000383	0.000512	1.01E-05	
48	0.000564	0.000236	0.005302
0.000405	0.000308	7.68E-06	

< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000564	0.000255	0.004848
0.000396	0.000152	5.74E-06	
50	0.000564	0.000254	0.004058
0.000357	0.000182	5.84E-06	
51	0.000563	0.000236	0.003009
0.000289	0.000227	6.99E-06	
52	0.000563	0.000209	0.001775
0.000186	0.000259	8.10E-06	
53	0.000563	0.000187	0.000418
6.81E-05	0.000276	1.01E-05	
54	0.000563	0.000183	4.45E-08
5.40E-05	0.000278	1.02E-05	
55	0.000541	0.000101	2.95E-08
5.35E-05	0.000681	5.61E-06	
56	0.000542	8.74E-05	0.001062
0.000146	0.000630	4.16E-06	
57	0.000542	0.000276	0.002146
0.000287	0.000502	2.35E-06	
58	0.000542	7.86E-05	0.003049
0.000388	0.000330	1.46E-06	
59	0.000541	6.98E-05	0.003683
0.000436	0.000152	1.09E-06	
60	0.000542	5.92E-05	0.003957
0.000427	2.01E-05	1.20E-06	
61	0.000542	4.85E-05	0.003784
0.000365	8.85E-05	1.37E-06	
62	0.000542	3.99E-05	0.003101
0.000265	0.000197	2.27E-06	
63	0.000542	3.62E-05	0.001848
0.000147	0.000314	3.49E-06	
64	0.000543	3.74E-05	4.74E-08
4.49E-05	0.000433	2.20E-06	
65	0.000543	3.21E-05	0.001298
8.54E-05	0.000503	3.12E-06	
66	0.000543	2.60E-05	0.002682
0.000189	0.000541	2.90E-06	
67	0.000543	2.41E-05	0.003538
0.000306	0.000501	2.29E-06	
68	0.000544	2.93E-05	0.003926
0.000402	0.000385	1.76E-06	
69	0.000544	3.19E-05	0.003875
0.000459	0.000218	1.30E-06	
70	0.000545	3.05E-05	0.004234
0.000467	0.000111	1.09E-06	
71	0.000545	2.51E-05	0.004296
0.000423	0.000150	1.27E-06	
72	0.000545	2.15E-05	0.003876
0.000335	0.000165	1.44E-06	
73	0.000545	2.66E-05	0.002940
0.000220	0.000247	2.26E-06	
74	0.000545	3.47E-05	0.001424
0.000100	0.000367	3.05E-06	
75	0.000544	3.85E-05	4.86E-08
3.29E-05	0.000454	1.99E-06	
76	0.000544	3.70E-05	0.001396
8.54E-05	0.000525	2.93E-06	
77	0.000544	3.46E-05	0.002895
0.000204	0.000565	2.91E-06	
78	0.000544	4.42E-05	0.003841
0.000323	0.000526	2.45E-06	
79	0.000543	5.20E-05	0.004288
0.000420	0.000405	1.98E-06	
80	0.000543	5.70E-05	0.004246
0.000474	0.000226	1.36E-06	
81	0.000543	5.77E-05	0.004427
0.000475	0.000120	1.05E-06	
82	0.000543	5.40E-05	0.004475
0.000423	0.000164	1.19E-06	
83	0.000543	4.72E-05	0.004011
0.000326	0.000180	1.46E-06	
84	0.000543	3.78E-05	0.003025
0.000208	0.000255	2.33E-06	
85	0.000543	3.86E-05	0.001459
8.83E-05	0.000376	3.31E-06	
86	0.000543	3.92E-05	5.44E-08
3.13E-05	0.000464	2.70E-06	
87	0.000543	3.45E-05	0.001446
9.91E-05	0.000536	3.70E-06	
88	0.000543	2.55E-05	0.003005
0.000221	0.000578	3.85E-06	
89	0.000542	3.03E-05	0.003994
0.000339	0.000539	3.60E-06	
90	0.000542	4.56E-05	0.004468
0.000432	0.000419	3.18E-06	
91	0.000542	5.74E-05	0.004492
0.000478	0.000238	2.51E-06	
92	0.000542	6.46E-05	0.005012
0.000471	0.000123	1.83E-06	
93	0.000542	6.74E-05	0.005063
0.000412	0.000168	1.26E-06	
94	0.000542	6.58E-05	0.004535
0.000311	0.000187	1.13E-06	
95	0.000542	5.97E-05	0.003418
0.000192	0.000287	2.47E-06	
96	0.000542	5.40E-05	0.001646
9.62E-05	0.000423	3.89E-06	
97	0.000542	5.47E-05	4.16E-08
5.53E-05	0.000521	3.08E-06	
98	0.000543	4.87E-05	0.002098
0.000156	0.000626	4.09E-06	

< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	0.000543	4.00E-05	0.003625
0.000285	0.000652	4.53E-06	
100	0.000543	3.31E-05	0.004590
0.000404	0.000591	4.86E-06	
101	0.000543	4.65E-05	0.005041
0.000491	0.000452	4.71E-06	
102	0.000543	6.77E-05	0.005023
0.000536	0.000262	4.21E-06	
103	0.000543	8.54E-05	0.004604
0.000531	0.000119	3.75E-06	
104	0.000543	9.93E-05	0.003859
0.000474	0.000176	3.00E-06	
105	0.000543	0.000108	0.002864
0.000368	0.000218	2.38E-06	
106	0.000543	0.000110	0.001690
0.000216	0.000247	2.68E-06	
107	0.000542	0.000103	0.000399
5.89E-05	0.000264	4.84E-06	
108	0.000542	0.000101	2.66E-08
5.05E-05	0.000266	5.20E-06	
109	0.000555	8.06E-05	4.37E-08
5.01E-05	0.000735	1.04E-05	
110	0.000555	7.04E-05	0.001062
0.000120	0.000684	9.69E-06	
111	0.000555	9.25E-05	0.002147
0.000216	0.000543	7.62E-06	
112	0.000556	0.000116	0.003056
0.000286	0.000356	4.89E-06	
113	0.000556	0.000125	0.003701
0.000320	0.000159	2.49E-06	
114	0.000556	0.000118	0.003990
0.000316	3.16E-05	1.78E-06	
115	0.000556	9.66E-05	0.003833
0.000280	8.71E-05	3.82E-06	
116	0.000556	7.27E-05	0.003157
0.000213	0.000194	5.15E-06	
117	0.000557	4.92E-05	0.001888
0.000131	0.000319	5.32E-06	
118	0.000557	3.46E-05	5.67E-08
5.61E-05	0.000445	5.87E-06	
119	0.000558	3.27E-05	0.001329
6.10E-05	0.000527	6.93E-06	
120	0.000558	5.21E-05	0.002736
0.000138	0.000576	7.59E-06	
121	0.000559	7.91E-05	0.003594
0.000220	0.000536	7.09E-06	
122	0.000559	0.000106	0.003968
0.000289	0.000415	5.61E-06	
123	0.000560	0.000120	0.003908
0.000332	0.000241	3.63E-06	
124	0.000560	0.000126	0.004254
0.000340	0.000119	2.93E-06	
125	0.000560	0.000105	0.004334
0.000315	0.000150	4.66E-06	
126	0.000560	7.76E-05	0.003929
0.000256	0.000166	6.02E-06	
127	0.000560	4.93E-05	0.002994
0.000175	0.000249	6.51E-06	
128	0.000560	3.70E-05	0.001454
8.83E-05	0.000376	5.87E-06	
129	0.000560	2.61E-05	5.74E-08
3.99E-05	0.000466	6.05E-06	
130	0.000559	3.88E-05	0.001426
6.85E-05	0.000546	6.86E-06	
131	0.000559	7.05E-05	0.002949
0.000154	0.000595	7.57E-06	
132	0.000559	0.000105	0.003894
0.000239	0.000557	7.09E-06	
133	0.000559	0.000133	0.004327
0.000307	0.000432	5.60E-06	
134	0.000559	0.000159	0.004267
0.000344	0.000246	3.56E-06	
135	0.000559	0.000148	0.004446
0.000344	0.000123	3.37E-06	
136	0.000559	0.000132	0.004512
0.000309	0.000166	5.18E-06	
137	0.000559	0.000103	0.004064
0.000242	0.000182	6.41E-06	
138	0.000558	6.74E-05	0.003079
0.000157	0.000259	6.70E-06	
139	0.000558	3.55E-05	0.001489
7.06E-05	0.000387	5.88E-06	
140	0.000558	3.00E-05	6.19E-08
3.89E-05	0.000477	6.01E-06	
141	0.000558	4.09E-05	0.001478
8.78E-05	0.000554	7.43E-06	
142	0.000557	5.75E-05	0.003060
0.000176	0.000600	8.28E-06	
143	0.000557	9.31E-05	0.004047
0.000260	0.000559	7.88E-06	
144	0.000554	0.000126	0.004505
0.000322	0.000432	6.40E-06	
145	0.000556	0.000146	0.004511
0.000349	0.000243	4.49E-06	
146	0.000556	0.000150	0.005013
0.000341	0.000127	4.15E-06	
147	0.000555	0.000138	0.005082
0.000297	0.000172	5.86E-06	
148	0.000555	0.000112	0.004572
0.000225	0.000189	6.90E-06	

< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000555	7.88E-05	0.003461
0.000141	0.000292	6.97E-06	
150	0.000555	5.01E-05	0.001673
6.31E-05	0.000534	6.10E-06	
151	0.000555	4.41E-05	5.69E-08
6.35E-05	0.000534	6.68E-06	
152	0.000555	5.95E-05	0.002135
0.000145	0.000639	8.23E-06	
153	0.000555	7.04E-05	0.003675
0.000240	0.000662	9.07E-06	
154	0.000555	9.10E-05	0.004630
0.000324	0.000592	8.77E-06	
155	0.000555	0.000134	0.005059
0.000381	0.000444	7.40E-06	
156	0.000555	0.000160	0.005022
0.000403	0.000246	5.85E-06	
157	0.000555	0.000170	0.004589
0.000390	0.000274	5.71E-06	
158	0.000555	0.000162	0.003839
0.000348	0.000179	7.58E-06	
159	0.000555	0.000137	0.002845
0.000272	0.000220	9.43E-06	
160	0.000555	0.000100	0.001677
0.000167	0.000249	1.07E-05	
161	0.000554	6.21E-05	0.000395
5.34E-05	0.000265	1.12E-05	
162	0.000554	8.66E-05	4.47E-08
3.67E-05	0.000266	1.12E-05	
163	0.000559	0.000117	9.26E-05
5.66E-05	0.000928	9.40E-05	
164	0.000558	0.000129	0.001089
0.000138	0.000785	6.98E-05	
165	0.000558	0.000139	0.002209
0.000313	0.000638	6.07E-05	
166	0.000558	0.000144	0.003143
0.000403	0.000457	5.20E-05	
167	0.000557	0.000139	0.003804
0.000438	0.000244	4.56E-05	
168	0.000557	0.000125	0.004096
0.000430	0.000224	4.44E-05	
169	0.000558	0.000101	0.003929
0.000375	0.000253	4.46E-05	
170	0.000558	7.31E-05	0.003233
0.000278	0.000316	4.66E-05	
171	0.000547	4.78E-05	0.001933
0.000153	0.000423	5.46E-05	
172	0.000559	3.08E-05	4.16E-05
6.85E-05	0.000509	5.99E-05	
173	0.000559	3.68E-05	0.001364
0.000107	0.000621	6.91E-05	
174	0.000560	5.85E-05	0.002804
0.000206	0.000684	8.56E-05	
175	0.000560	7.90E-05	0.003682
0.000313	0.000645	7.91E-05	
176	0.000561	9.55E-05	0.004068
0.000403	0.000525	7.01E-05	
177	0.000561	0.000103	0.004002
0.000451	0.000376	6.06E-05	
178	0.000562	0.000102	0.004361
0.000459	0.000300	5.05E-05	
179	0.000562	8.99E-05	0.004438
0.000425	0.000295	4.77E-05	
180	0.000562	7.04E-05	0.004019
0.000345	0.000288	4.78E-05	
181	0.000563	4.80E-05	0.003061
0.000227	0.000343	5.29E-05	
182	0.000562	2.49E-05	0.001489
0.000103	0.000428	5.78E-05	
183	0.000561	3.29E-05	3.87E-05
4.00E-05	0.000520	5.89E-05	
184	0.000561	4.74E-05	0.001460
0.000102	0.000642	6.82E-05	
185	0.000560	7.14E-05	0.003016
0.000211	0.000714	7.55E-05	
186	0.000560	9.57E-05	0.003983
0.000332	0.000682	7.20E-05	
187	0.000559	0.000116	0.004430
0.000421	0.000561	6.34E-05	
188	0.000559	0.000127	0.004373
0.000464	0.000405	5.22E-05	
189	0.000559	0.000128	0.004557
0.000465	0.000304	4.63E-05	
190	0.000558	0.000117	0.004621
0.000423	0.000299	4.63E-05	
191	0.000558	9.79E-05	0.004157
0.000335	0.000294	4.62E-05	
192	0.000557	7.34E-05	0.003149
0.000215	0.000348	4.90E-05	
193	0.000557	4.85E-05	0.001526
0.000104	0.000436	4.86E-05	
194	0.000556	3.27E-05	3.98E-05
3.82E-05	0.000530	4.89E-05	
195	0.000556	2.82E-05	0.001513
0.000104	0.000654	5.85E-05	
196	0.000555	5.57E-05	0.003128
0.000228	0.000730	6.73E-05	
197	0.000555	8.38E-05	0.004140
0.000450	0.000703	6.39E-05	
198	0.000554	0.000110	0.004614
0.000434	0.000584	5.34E-05	

< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000554	0.000127	0.004611
0.000469	0.000430	4.51E-05	
200	0.000554	0.000134	0.005153
0.000481	0.000305	4.27E-05	
201	0.000554	0.000129	0.005222
0.000412	0.000302	4.19E-05	
202	0.000554	0.000115	0.004697
0.000319	0.000296	4.15E-05	
203	0.000554	9.41E-05	0.003559
0.000213	0.000379	4.26E-05	
204	0.000554	7.20E-05	0.001732
0.000113	0.000484	4.60E-05	
205	0.000554	5.75E-05	5.72E-05
7.23E-05	0.000624	5.56E-05	
206	0.000554	3.88E-05	0.002180
0.000156	0.000769	7.19E-05	
207	0.000554	5.11E-05	0.003760
0.000296	0.000811	7.51E-05	
208	0.000554	8.66E-05	0.004746
0.000409	0.000761	6.94E-05	
209	0.000554	0.000122	0.005197
0.000483	0.000628	5.66E-05	
210	0.000554	0.000150	0.005167
0.000515	0.000473	4.10E-05	
211	0.000554	0.000168	0.004729
0.000509	0.000322	3.73E-05	
212	0.000554	0.000175	0.003960
0.000465	0.000301	3.65E-05	
213	0.000554	0.000170	0.002938
0.000380	0.000305	3.69E-05	
214	0.000554	0.000156	0.001734
0.000234	0.000322	3.73E-05	
215	0.000554	0.000139	0.000410
3.56E-05	0.000270	2.54E-05	
216	0.000554	0.000132	7.73E-05
4.14E-05	0.000271	3.12E-05	
217	0.000545	8.73E-05	0.000101
6.88E-05	0.000880	9.32E-05	
218	0.000546	5.82E-05	0.001060
0.000154	0.000775	7.00E-05	
219	0.000546	5.54E-05	0.002140
0.000330	0.000658	6.02E-05	
220	0.000546	6.86E-05	0.003044
0.000439	0.000500	5.12E-05	
221	0.000546	7.25E-05	0.003683
0.000482	0.000360	4.46E-05	
222	0.000546	6.80E-05	0.003965
0.000466	0.000238	4.46E-05	
223	0.000546	5.68E-05	0.003804
0.000400	0.000229	4.58E-05	
224	0.000546	4.36E-05	0.003128
0.000289	0.000296	4.84E-05	
225	0.000547	3.83E-05	0.001868
0.000151	0.000403	5.53E-05	
226	0.000547	3.39E-05	4.59E-05
7.97E-05	0.000496	5.71E-05	
227	0.000547	2.89E-05	0.001313
0.000119	0.000676	8.39E-05	
228	0.000548	2.77E-05	0.002709
0.000209	0.000676	7.35E-05	
229	0.000548	4.17E-05	0.003562
0.000325	0.000647	7.05E-05	
230	0.000549	5.85E-05	0.003939
0.000430	0.000536	6.31E-05	
231	0.000549	6.72E-05	0.003877
0.000486	0.000401	5.31E-05	
232	0.000549	6.67E-05	0.004233
0.000493	0.000282	4.65E-05	
233	0.000550	5.68E-05	0.004307
0.000450	0.000279	4.21E-05	
234	0.000550	3.90E-05	0.003899
0.000353	0.000274	4.24E-05	
235	0.000550	3.65E-05	0.002967
0.000223	0.000331	5.03E-05	
236	0.000549	3.54E-05	0.001439
0.000104	0.000417	5.43E-05	
237	0.000549	3.04E-05	4.38E-05
5.49E-05	0.000507	5.89E-

255	0.000546	9.06E-05	0.005058
0.000439	0.000287	4.08E-05	
256	0.000546	7.69E-05	0.004544
0.000330	0.000284	4.17E-05	
257	0.000546	5.74E-05	0.003433
0.000214	0.000372	4.63E-05	
258	0.000546	4.53E-05	0.001653
0.000125	0.000475	4.72E-05	
259	0.000546	4.69E-05	5.11E-05
8.30E-05	0.000607	5.44E-05	
260	0.000546	5.37E-05	0.002121
0.000154	0.000734	7.09E-05	
261	0.000546	5.37E-05	0.003651
0.000303	0.000761	7.31E-05	
262	0.000546	5.28E-05	0.004605
0.000434	0.000695	6.63E-05	
263	0.000547	7.46E-05	0.005040
0.000527	0.000549	5.34E-05	
264	0.000547	9.37E-05	0.005008
0.000572	0.000377	4.46E-05	
265	0.000546	0.000106	0.004582
0.000570	0.000286	3.89E-05	
266	0.000546	0.000107	0.003835
0.000518	0.000286	3.86E-05	
267	0.000546	9.68E-05	0.002843
0.000411	0.000397	5.37E-05	
268	0.000546	8.32E-05	0.001675
0.000244	0.000313	3.99E-05	
269	0.000545	8.96E-05	0.000391
4.06E-05	0.000264	2.65E-05	
270	0.000545	9.42E-05	8.95E-05
5.10E-05	0.000265	3.25E-05	
271	0.000495	1.18E-05	.000000
8.74E-05	0.000771	9.71E-06	
272	0.000738	5.80E-05	.000000
8.20E-05	0.000465	7.08E-06	
273	.000000	.000000	.000000
6.19E-05	0.000485	6.77E-06	
274	0.001085	2.74E-06	.000000
5.87E-05	0.000497	7.53E-06	
275	0.000497	2.17E-05	.000000
0.000105	0.000554	8.20E-06	
276	0.001130	1.11E-05	.000000
5.20E-05	0.000278	1.02E-05	
277	0.000458	4.93E-05	.000000
9.67E-05	0.000578	5.61E-06	
278	0.000699	5.46E-05	.000000
5.18E-05	0.000431	2.20E-06	
279	.000000	.000000	.000000
3.63E-05	0.000453	1.99E-06	
280	0.001029	2.58E-06	.000000
3.30E-05	0.000464	2.70E-06	
281	0.000453	1.02E-05	.000000
3.54E-05	0.000522	3.08E-06	
282	0.001049	5.06E-05	.000000
3.57E-05	0.000269	5.20E-06	
283	0.000485	8.08E-05	.000000
0.000187	0.000710	1.04E-05	
284	0.000712	4.00E-05	.000000
0.000129	0.000423	5.87E-06	
285	1.47E-06	4.97E-05	.000000
4.45E-05	0.000465	6.05E-06	
286	0.001018	0.000248	.000000
2.46E-05	0.000475	6.31E-06	
287	0.000464	0.000116	.000000
1.54E-05	0.000535	6.66E-06	
288	0.001078	0.000208	.000000
4.97E-05	0.000270	1.12E-05	

COMB DB ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000561	-8.46E-05	-3.82E-07
-0.000160	-0.000252	-1.04E-05	
2	-0.000560	-7.81E-05	-0.003412
-0.000255	-0.000241	-8.82E-06	
3	-0.000560	-0.000100	-0.006624
-0.000344	-0.000210	-5.49E-06	
4	-0.000559	-0.000117	-0.008849
-0.000392	-0.000163	-4.09E-06	
5	-0.000560	-0.000123	-0.009788
-0.000391	-0.000138	-4.31E-06	
6	-0.000560	-0.000118	-0.009368
-0.000352	-0.000295	-6.59E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000560	-0.000103	-0.007729
-0.000279	-0.000462	-8.62E-06	
8	-0.000561	-8.40E-05	-0.005281
-0.000183	-0.000554	-9.65E-06	
9	-0.000562	-7.40E-05	-0.002526
-8.62E-05	-0.000550	-9.79E-06	
10	-0.000563	-7.03E-05	-4.55E-07
-5.61E-05	-0.000551	-7.49E-06	
11	-0.000564	-7.40E-05	-0.001797
-0.000118	-0.000358	-7.28E-06	
12	-0.000566	-8.01E-05	-0.004713
-0.000223	-0.000235	-6.07E-06	
13	-0.000567	-9.71E-05	-0.007603
-0.000319	-0.000187	-5.39E-06	
14	-0.000570	-0.000119	-0.009965
-0.000388	-0.000170	-4.56E-06	
15	-0.000572	-0.000131	-0.011275
-0.000416	-0.000132	-3.15E-06	
16	-0.000573	-0.000131	-0.011289
-0.000403	-0.000253	-4.33E-06	
17	-0.000574	-0.000120	-0.010002
-0.000357	-0.000436	-6.53E-06	
18	-0.000574	-9.87E-05	-0.007653
-0.000274	-0.000564	-8.03E-06	
19	-0.000573	-7.64E-05	-0.004757
-0.000173	-0.000608	-8.86E-06	
20	-0.000573	-7.17E-05	-0.001821
-7.20E-05	-0.000561	-8.32E-06	
21	-0.000572	-6.84E-05	-4.55E-07
-3.68E-05	-0.000477	-6.70E-06	
22	-0.000571	-6.60E-05	-0.001860
-9.64E-05	-0.000385	-6.89E-06	
23	-0.000569	-7.46E-05	-0.004879
-0.000201	-0.000258	-6.11E-06	
24	-0.000568	-9.07E-05	-0.007891
-0.000302	-0.000197	-5.48E-06	
25	-0.000567	-0.000106	-0.010385
-0.000381	-0.000180	-4.61E-06	
26	-0.000566	-0.000117	-0.011774
-0.000420	-0.000135	-3.17E-06	
27	-0.000565	-0.000117	-0.011786
-0.000419	-0.000256	-4.85E-06	
28	-0.000564	-0.000108	-0.010415
-0.000379	-0.000450	-6.65E-06	
29	-0.000563	-9.30E-05	-0.007931
-0.000300	-0.000581	-8.24E-06	
30	-0.000562	-7.54E-05	-0.004915
-0.000199	-0.000624	-9.10E-06	
31	-0.000561	-6.58E-05	-0.001881
-9.34E-05	-0.000577	-8.66E-06	
32	-0.000561	-6.90E-05	-4.55E-07
-3.33E-05	-0.000493	-7.34E-06	
33	-0.000560	-7.16E-05	-0.001896
-7.64E-05	-0.000400	-7.73E-06	
34	-0.000560	-7.55E-05	-0.004965
-0.000180	-0.000270	-6.29E-06	
35	-0.000559	-9.61E-05	-0.008023
-0.000282	-0.000223	-5.43E-06	
36	-0.000558	-0.000114	-0.010559
-0.000367	-0.000204	-4.69E-06	
37	-0.000558	-0.000124	-0.011981
-0.000414	-0.000153	-3.49E-06	
38	-0.000557	-0.000128	-0.012010
-0.000427	-0.000244	-3.79E-06	
39	-0.000556	-0.000122	-0.010636
-0.000395	-0.000441	-5.72E-06	
40	-0.000556	-0.000108	-0.008124
-0.000321	-0.000579	-7.19E-06	
41	-0.000556	-8.86E-05	-0.005057
-0.000223	-0.000630	-8.19E-06	
42	-0.000556	-9.19E-05	-0.001947
-0.000115	-0.000590	-7.88E-06	
43	-0.000556	-0.000104	-4.60E-07
-5.09E-05	-0.000514	-7.02E-06	
44	-0.000555	-0.000102	-0.003118
-9.51E-05	-0.000389	-7.59E-06	
45	-0.000555	-0.000104	-0.006621
-0.000203	-0.000265	-5.72E-06	
46	-0.000554	-0.000124	-0.009989
-0.000315	-0.000148	-4.81E-06	
47	-0.000554	-0.000140	-0.012691
-0.000409	-4.47E-05	-4.13E-06	
48	-0.000553	-0.000147	-0.014253
-0.000470	-4.45E-05	-3.02E-06	
49	-0.000553	-0.000143	-0.014380
-0.000504	-0.000221	-2.70E-06	
50	-0.000553	-0.000129	-0.012987
-0.000497	-0.000450	-4.98E-06	
51	-0.000552	-0.000105	-0.010183
-0.000444	-0.000668	-6.02E-06	
52	-0.000552	-7.15E-05	-0.006249
-0.000345	-0.000861	-7.89E-06	
53	-0.000552	-5.80E-05	-0.001503
-0.000208	-0.000984	-8.76E-06	
54	-0.000552	-5.48E-06	-3.86E-07
-0.000174	-0.000994	-8.80E-06	
55	-0.000528	-7.48E-05	-4.21E-07
-0.000113	-0.000240	-5.63E-06	
56	-0.000528	-5.96E-05	-0.002981
-0.000245	-0.000229	-4.20E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000528	-5.11E-05	-0.005804
-0.000385	-0.000201	-2.59E-06	
58	-0.000528	-4.91E-05	-0.007782
-0.000470	-0.000157	-2.34E-06	
59	-0.000528	-4.80E-05	-0.008646
-0.000492	-0.000104	-2.54E-06	
60	-0.000529	-4.69E-05	-0.008308
-0.000452	-0.000251	-2.94E-06	
61	-0.000529	-4.50E-05	-0.006883
-0.000362	-0.000403	-3.33E-06	
62	-0.000530	-4.22E-05	-0.004727
-0.000240	-0.000490	-3.70E-06	
63	-0.000530	-4.11E-05	-0.002279
-0.000113	-0.000493	-3.82E-06	
64	-0.000531	-4.28E-05	-5.25E-07
-4.54E-05	-0.000413	-2.58E-06	
65	-0.000531	-3.87E-05	-0.001640
-0.000120	-0.000332	-3.17E-06	
66	-0.000532	-3.30E-05	-0.004269
-0.000251	-0.000223	-2.26E-06	
67	-0.000532	-3.27E-05	-0.006861
-0.000377	-0.000178	-1.51E-06	
68	-0.000533	-3.18E-05	-0.008979
-0.000473	-0.000162	-1.22E-06	
69	-0.000533	-2.92E-05	-0.010161
-0.000521	-0.000120	-1.06E-06	
70	-0.000533	-2.63E-05	-0.010178
-0.000513	-0.000218	-1.31E-06	
71	-0.000533	-2.44E-05	-0.009024
-0.000451	-0.000386	-1.89E-06	
72	-0.000533	-2.58E-05	-0.006920
-0.000345	-0.000504	-2.36E-06	
73	-0.000533	-2.96E-05	-0.004323
-0.000217	-0.000548	-2.86E-06	
74	-0.000533	-3.59E-05	-0.001669
-8.91E-05	-0.000513	-2.90E-06	
75	-0.000532	-3.94E-05	-5.26E-07
-3.21E-05	-0.000444	-1.96E-06	
76	-0.000532	-3.79E-05	-0.001710
-0.000105	-0.000360	-3.00E-06	
77	-0.000532	-3.90E-05	-0.004447
-0.000237	-0.000244	-3.98E-06	
78	-0.000532	-3.98E-05	-0.007160
-0.000367	-0.000188	-1.59E-06	
79	-0.000532	-3.86E-05	-0.009405
-0.000472	-0.000171	-1.36E-06	
80	-0.000532	-3.69E-05	-0.010661
-0.000529	-0.000126	-1.14E-06	
81	-0.000532	-4.02E-05	-0.010671
-0.000529	-0.000223	-1.26E-06	
82	-0.000532	-4.26E-05	-0.009432
-0.000472	-0.000403	-1.81E-06	
83	-0.000532	-4.26E-05	-0.007195
-0.000367	-0.000525	-2.37E-06	
84	-0.000532	-4.28E-05	-0.004479
-0.000237	-0.000567	-2.97E-06	
85	-0.000531	-3.78E-05	-0.001728
-0.000105	-0.000530	-3.18E-06	
86	-0.000531	-3.86E-05	-5.26E-07
-3.15E-05	-0.000460	-2.41E-06	
87	-0.000531	-3.43E-05	-0.001745
-9.17E-05	-0.000375	-2.49E-06	
88	-0.000531	-2.68E-05	-0.004531
-0.000222	-0.000256	-3.03E-06	
89	-0.000531	-3.10E-05	-0.007292
-0.000353	-0.000214	-2.60E-06	
90	-0.000531	-4.08E-05	-0.009582
-0.000463	-0.000195	-2.49E-06	
91	-0.000531	-5.10E-05	-0.010874
-0.000527	-0.000144	-2.18E-06	
92	-0.000531	-6.05E-05	-0.010905
-0.000535	-0.000225	-1.71E-06	
93	-0.000531	-6.71E-05	-0.009664
-0.000485	-0.000408	-1.30E-06	
94	-0.000531	-6.97E-05	-0.007400
-0.000385	-0.000534	-1.28E-06	
95	-0.000531	-6.77E-05	-0.004630
-0.000256	-0.000579	-2.68E-06	
96	-0.000531	-6.21E-05	-0.001799
-0.000124	-0.000546	-3.25E-06	
97	-0.000531	-5.55E-05	-5.30E-07
-4.95E-05	-0.000480	-3.27E-06	
98	-0.000531	-4.52E-05	-0.002877
-0.000113	-0.000366	-3.31E-06	
99	-0.000532	-3.70E-05	-0.006063
-0.000253	-0.000253	-2.34E-06	
100	-0.000532	-3.07E-05	-0.009108
-0.000393	-0.000145	-1.72E-06	
101	-0.000532	-2.82E-05	-0.011542
-0.000512	-4.68E-05	-1.77E-06	
102	-0.000532	-2.14E-05	-0.012934
-0.000590	-6.63E-05	-1.68E-06	
103	-0.000531	-2.04E-05	-0.013013
-0.000619	-0.000232	-1.53E-06	
104	-0.000531	-2.07E-05	-0.011708
-0.000590	-0.000441	-1.25E-06	
105	-0.000531	-2.30E-05	-0.009144
-0.000500	-0.000637	-1.72E-06	
106	-0.000531	-3.00E-05	-0.005591
-0.000351	-0.000795	-2.73E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	-0.000530	-4.15E-05	-0.001343
-0.000166	-0.000889	-5.93E-06	
108	-0.000530	-4.73E-05	-4.26E-07
-0.000129	-0.000897	-6.16E-06	
109	-0.000543	-7.84E-05	-3.57E-07
-0.000200	-0.000241	-9.93E-06	
110	-0.000543	-6.77E-05	-0.003182
-0.000263	-0.000231	-9.47E-06	
111	-0.000543	-6.08E-05	-0.006182
-0.000335	-0.000204	-7.91E-06	
112	-0.000543	-7.44E-05	-0.008261
-0.000382	-0.000160	-5.72E-06	
113	-0.000543	-8.94E-05	-0.009144
-0.000387	-9.87E-05	-3.43E-06	
114	-0.000544	-9.29E-05	-0.008753
-0.000354	-0.000248	-4.17E-06	
115	-0.000544	-8.52E-05	-0.007227
-0.000288	-0.000410	-6.21E-06	
116	-0.000545	-6.87E-05	-0.004939
-0.000202	-0.000507	-7.26E-06	
117	-0.000546	-5.40E-05	-0.002363
-0.000120	-0.000512	-7.01E-06	
118	-0.000546	-4.37E-05	-4.33E-07
-9.60E-05	-0.000426	-5.95E-06	
119	-0.000547	-4.05E-05	-0.001686
-0.000143	-0.000343	-5.81E-06	
120	-0.000547	-6.27E-05	-0.004424
-0.000222	-0.000428	-6.61E-06	
121	-0.000548	-8.51E-05	-0.007139
-0.000312	-0.000181	-6.29E-06	
122	-0.000548	-0.000103	-0.009358
-0.000377	-0.000165	-5.05E-06	
123	-0.000549	-0.000119	-0.010589
-0.000406	-0.000124	-3.28E-06	
124	-0.000549	-0.000120	-0.010603
-0.000398	-0.000222	-3.41E-06	
125	-0.000549	-0.000108	-0.009396
-0.000355	-0.000398	-5.36E-06	
126	-0.000548	-8.81E-05	-0.007189
-0.000280	-0.000524	-6.86E-06	
127	-0.000548	-6.73E-05	-0.004470
-0.000190	-0.000571	-7.38E-06	
128	-0.000548	-4.61E-05	-0.001712
-0.000109	-0.000531	-6.73E-06	
129	-0.000547	-3.56E-05	-4.33E-07
-7.82E-05	-0.000456	-6.04E-06	
130	-0.000547	-4.50E-05	-0.001750
-0.000126	-0.000370	-5.72E-06	
131	-0.000547	-6.24E-05	-0.004590
-0.000208	-0.000249	-6.61E-06	
132	-0.000546	-8.43E-05	-0.007423
-0.000301	-0.000190	-6.17E-06	
133	-0.000546	-0.000100	-0.009769
-0.000373	-0.000173	-4.83E-06	
134	-0.000546	-0.000107	-0.011085
-0.000412	-0.000129	-3.04E-06	
135	-0.000546	-0.000107	-0.011085
-0.000411	-0.000243	-3.69E-06	
136	-0.000546	-9.93E-05	-0.009795
-0.000373	-0.000429	-5.75E-06	
137	-0.000546	-8.26E-05	-0.007458
-0.000300	-0.000456	-7.26E-06	
138	-0.000545	-5.94E-05	-0.004622
-0.000206	-0.000597	-7.78E-06	
139	-0.000545	-4.25E-05	-0.001768
-0.000125	-0.000550	-7.15E-06	
140	-0.000545	-3.73E-05	-4.33E-07
-7.62E-05	-0.000472	-6.43E-06	
141	-0.000545	-4.77E-05	-0.001784
-0.000112	-0.000384	-6.05E-06	
142	-0.000545	-6.77E-05	-0.004669
-0.000194	-0.000258	-6.01E-06	
143	-0.000544	-8.64E-05	-0.007545
-0.000287	-0.000214	-5.50E-06	
144	-0.000544	-0.000101	-0.009930
-0.000364	-0.000195	-4.54E-06	
145	-0.000544	-0.000111	-0.011268
-0.000409	-0.000145	-3.10E-06	
146	-0.000544	-0.000114	-0.011294
-0.000417	-0.000249	-3.43E-06	
147	-0.000543	-0.000106	-0.010002
-0.000385	-0.000439	-5.10E-06	
148	-0.000543	-8.79E-05	-0.007638
-0.000316	-0.000568	-6.76E-06	
149	-0.000543	-7.69E-05	-0.004754
-0.000223	-0.000611	-7.45E-06	
150	-0.000543	-6.34E-05	-0.001833
-0.000143	-0.000567	-6.91E-06	
151	-0.000543	-6.16E-05	-4.40E-07
-9.50E-05	-0.000493	-5.93E-06	
152	-0.000543	-7.63E-05	-0.002931
-0.000130	-0.000372	-5.89E-06	
153	-0.000543	-9.57E-05	-0.006195
-0.000221	-0.000251	-5.97E-06	
154	-0.000543	-0.000112	-0.009341
-0.000325	-0.000142	-4.92E-06	
155	-0.000543	-0.000126	-0.011863
-0.000410	-5.09E-05	-3.23E-06	
156	-0.000542	-0.000128	-0.013315
-0.000467	-8.35E-05	-2.40E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000542	-0.000115	-0.013428
-0.000493	-0.000553	-7.92E-06	
158	-0.000542	-8.65E-05	-0.012123
-0.000482	-0.000470	-4.68E-06	
159	-0.000542	-5.07E-05	-0.009502
-0.000430	-0.000675	-7.32E-06	
160	-0.000541	-3.88E-05	-0.005829
-0.000333	-0.000844	-9.77E-06	
161	-0.000541	-5.02E-05	-0.001402
-0.000220	-0.000942	-1.11E-05	
162	-0.000541	-5.38E-05	-3.61E-07
-0.000199	-0.000948	-1.12E-05	
163	-0.000544	-5.63E-05	-0.000146
-0.000174	-0.000259	-5.26E-05	
164	-0.000544	-6.30E-05	-0.003139
-0.000896	-0.000534	-4.62E-05	
165	-0.000544	-7.45E-05	-0.006127
-0.000450	-0.000308	-4.64E-05	
166	-0.000543	-8.21E-05	-0.008227
-0.000540	-0.000303	-4.61E-05	
167	-0.000543	-8.37E-05	-0.009134
-0.000555	-0.000329	-4.62E-05	
168	-0.000544	-8.04E-05	-0.008767
-0.000506	-0.000465	-4.86E-05	
169	-0.000544	-7.19E-05	-0.007250
-0.000404	-0.000579	-5.54E-05	
170	-0.000544	-5.92E-05	-0.004965
-0.000266	-0.000658	-6.14E-05	
171	-0.000545	-4.52E-05	-0.002388
-0.000146	-0.000647	-6.30E-05	
172	-0.000546	-3.59E-05	-7.41E-05
-7.13E-05	-0.000525	-5.44E-05	
173	-0.000547	-4.30E-05	-0.001715
-0.000114	-0.000400	-4.90E-05	
174	-0.000548	-5.53E-05	-0.004472
-0.000273	-0.000322	-5.05E-05	
175	-0.000549	-6.70E-05	-0.007199
-0.000416	-0.000295	-4.80E-05	
176	-0.000550	-7.66E-05	-0.009433
-0.000520	-0.000301	-4.78E-05	
177	-0.000551	-8.09E-05	-0.010683
-0.000565	-0.000303	-4.75E-05	
178	-0.000551	-8.09E-05	-0.010699
-0.000555	-0.000418	-5.20E-05	
179	-0.000551	-7.58E-05	-0.009477
-0.000490	-0.000553	-6.25E-05	
180	-0.000551	-6.49E-05	-0.007257
-0.000371	-0.000670	-7.02E-05	
181	-0.000550	-5.57E-05	-0.004525
-0.000223	-0.000703	-7.71E-05	
182	-0.000550	-3.71E-05	-0.001744
-0.000104	-0.000633	-6.72E-05	
183	-0.000549	-3.66E-05	-6.70E-05
-4.88E-05	-0.000511	-5.82E-05	
184	-0.000549	-3.74E-05	-0.001785
-0.000105	-0.000421	-5.72E-05	
185	-0.000549	-4.97E-05	-0.004652
-0.000243	-0.000338	-5.26E-05	
186	-0.000548	-6.10E-05	-0.007502
-0.000391	-0.000298	-4.74E-05	
187	-0.000548	-6.86E-05	-0.009868
-0.000507	-0.000303	-4.66E-05	
188	-0.000548	-7.20E-05	-0.011194
-0.000561	-0.000307	-4.93E-05	
189	-0.000547	-7.43E-05	-0.011204
-0.000560	-0.000406	-6.00E-05	
190	-0.000547	-7.20E-05	-0.009896
-0.000505	-0.000561	-7.06E-05	
191	-0.000547	-6.42E-05	-0.007539
-0.000389	-0.000683	-7.98E-05	
192	-0.000546	-5.14E-05	-0.004687
-0.000241	-0.000717	-8.13E-05	
193	-0.000546	-3.82E-05	-0.001804
-0.000106	-0.000647	-6.95E-05	
194	-0.000545	-3.63E-05	-6.80E-05
-4.60E-05	-0.000526	-5.55E-05	
195	-0.000545	-3.58E-05	-0.001821
-0.000105	-0.000435	-5.13E-05	
196	-0.000545	-4.86E-05	-0.004739
-0.000227	-0.000350	-4.70E-05	
197	-0.000544	-6.05E-05	-0.007638
-0.000379	-0.000312	-4.38E-05	
198	-0.000544	-7.36E-05	-0.010050
-0.000501	-0.000315	-4.18E-05	
199	-0.000544	-8.35E-05	-0.011412
-0.000567	-0.000315	-4.08E-05	
200	-0.000544	-8.76E-05	-0.011443
-0.000576	-0.000384	-4.44E-05	
201	-0.000544	-8.68E-05	-0.010134
-0.000529	-0.000548	-5.26E-05	
202	-0.000543	-8.03E-05	-0.007749
-0.000420	-0.000678	-6.21E-05	
203	-0.000543	-7.54E-05	-0.004844
-0.000273	-0.000720	-6.67E-05	
204	-0.000543	-6.65E-05	-0.001885
-0.000115	-0.000660	-5.79E-05	
205	-0.000543	-6.43E-05	-8.02E-05
-7.21E-05	-0.000556	-5.07E-05	
206	-0.000543	-6.20E-05	-0.002992
-0.000148	-0.000469	-4.83E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000543	-6.87E-05	-0.006335
-0.000275	-0.000351	-4.31E-05	
208	-0.000543	-7.95E-05	-0.009534
-0.000430	-0.000273	-3.89E-05	
209	-0.000542	-8.54E-05	-0.012107
-0.000559	-0.000223	-3.84E-05	
210	-0.000542	-8.53E-05	-0.013579
-0.000643	-0.000235	-3.91E-05	
211	-0.000542	-7.96E-05	-0.013674
-0.000678	-0.000351	-4.54E-05	
212	-0.000542	-7.37E-05	-0.012309
-0.000656	-0.000554	-5.66E-05	
213	-0.000542	-6.31E-05	-0.009613
-0.000567	-0.000764	-7.36E-05	
214	-0.000542	-4.70E-05	-0.005875
-0.000399	-0.000934	-9.15E-05	
215	-0.000542	-3.67E-05	-0.001405
-0.000151	-0.000977	-6.66E-05	
216	-0.000542	-3.53E-05	-0.000123
-0.000164	-0.000937	-7.98E-05	
217	-0.000533	-6.85E-05	-0.000194
-0.000180	-0.000250	-5.35E-05	
218	-0.000533	-5.55E-05	-0.003044
-0.000241	-0.000323	-4.53E-05	
219	-0.000533	-5.22E-05	-0.005927
-0.000417	-0.000295	-4.46E-05	
220	-0.000533	-5.37E-05	-0.007956
-0.000494	-0.000290	-4.47E-05	
221	-0.000533	-5.57E-05	-0.008835
-0.000502	-0.000286	-4.56E-05	
222	-0.000533	-5.71E-05	-0.008483
-0.000459	-0.000372	-4.88E-05	
223	-0.000534	-5.56E-05	-0.007019
-0.000372	-0.000517	-5.46E-05	
224	-0.000534	-5.07E-05	-0.004811
-0.000250	-0.000607	-6.07E-05	
225	-0.000535	-4.65E-05	-0.002320
-0.000139	-0.000610	-6.12E-05	
226	-0.000535	-4.13E-05	-0.000111
-5.73E-05	-0.000505	-5.19E-05	
227	-0.000536	-3.64E-05	-0.001670
-0.000112	-0.000391	-4.61E-05	
228	-0.000537	-4.13E-05	-0.004342
-0.000261	-0.000317	-4.97E-05	
229	-0.000537	-5.36E-05	-0.006986
-0.000392	-0.000281	-4.96E-05	
230	-0.000538	-6.29E-05	-0.009152
-0.000482	-0.000286	-4.97E-05	
231	-0.000538	-6.67E-05	-0.010364
-0.000520	-0.000288	-4.97E-05	
232	-0.000539	-6.39E-05	-0.010380
-0.000512	-0.000361	-5.26E-05	
233	-0.000538	-5.74E-05	-0.009196
-0.000457	-0.000509	-6.43E-05	
234	-0.000538	-4.75E-05	-0.007044
-0.000357	-0.000628	-7.79E-05	
235	-0.000538	-3.62E-05	-0.004397
-0.000223	-0.000668	-8.22E-05	
236	-0.000537	-3.00E-05	-0.001700
-0.000101	-0.000607	-7.21E-05	
237	-0.000537	-3.45E-05	-0.000102
-3.87E-05	-0.000497	-5.81E-05	
238	-0.000537	-4.11E-05	-0.001740
-0.000103	-0.000411	-5.36E-05	
239	-0.000537	-4.71E-05	-0.004521
-0.000245	-0.000328	-5.00E-05	
240	-0.000536	-5.24E-05	-0.007287
-0.000380

-0.000113	-0.000644	-5.69E-05	
259	-0.000534	-5.33E-05	-0.000125
-5.59E-05	-0.000541	-4.85E-05	
260	-0.000534	-5.19E-05	-0.002921
-0.000140	-0.000452	-4.66E-05	
261	-0.000534	-5.45E-05	-0.006149
-0.000263	-0.000340	-4.10E-05	
262	-0.000534	-5.84E-05	-0.009238
-0.000400	-0.000254	-3.76E-05	
263	-0.000534	-6.15E-05	-0.011720
-0.000509	-0.000204	-3.80E-05	
264	-0.000534	-5.75E-05	-0.013139
-0.000582	-0.000281	-3.94E-05	
265	-0.000534	-4.73E-05	-0.013224
-0.000614	-0.000423	-4.37E-05	
266	-0.000534	-3.13E-05	-0.011901
-0.000600	-0.000596	-5.35E-05	
267	-0.000534	-2.42E-05	-0.009291
-0.000527	-0.000784	-7.15E-05	
268	-0.000533	-2.80E-05	-0.005680
-0.000380	-0.000927	-8.91E-05	
269	-0.000533	-4.05E-05	-0.001364
-0.000120	-0.000952	-6.56E-05	
270	-0.000533	-4.50E-05	-0.000167
-0.000163	-0.000910	-7.87E-05	
271	-0.000534	-7.94E-06	.000000
-0.000153	-0.000250	-1.04E-05	
272	-0.001043	-4.11E-05	.000000
-5.78E-05	-0.000448	-7.49E-06	
273	.000000	.000000	.000000
-3.83E-05	-0.000476	-6.70E-06	
274	-0.000765	-3.89E-06	.000000
-3.50E-05	-0.000493	-7.34E-06	
275	-0.000622	-1.74E-05	.000000
-8.15E-05	-0.000510	-7.02E-06	
276	-0.000579	-5.70E-06	.000000
-0.000158	-0.000997	-8.80E-06	
277	-0.000632	-3.57E-05	.000000
-0.000100	-0.000235	-5.63E-06	
278	-0.000982	-3.89E-05	.000000
-4.99E-05	-0.000412	-2.58E-06	
279	.000000	.000000	.000000
-3.51E-05	-0.000443	-1.96E-06	
280	-0.000722	-3.68E-06	.000000
-3.33E-05	-0.000460	-2.41E-06	
281	-0.000568	-1.27E-05	.000000
-3.74E-05	-0.000482	-2.21E-06	
282	-0.000556	-2.68E-05	.000000
-6.48E-05	-0.000904	-6.16E-06	
283	-0.000704	-0.000101	.000000
-0.000175	-0.000224	-9.93E-06	
284	-0.000998	-2.50E-05	.000000
-0.000155	-0.000693	-5.63E-06	
285	-3.26E-06	-0.000110	.000000
-8.20E-05	-0.000455	-6.04E-06	
286	-0.000708	-0.000236	.000000
-4.81E-05	-0.000472	-6.43E-06	
287	-0.000569	-0.000198	.000000
-4.88E-05	-0.000495	-5.93E-06	
288	-0.000554	-0.000184	.000000
-8.50E-05	-0.000952	-1.12E-05	

COMB DL ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000939	0.000215	6.40E-08
0.000101	0.000994	1.08E-05	
2	0.000938	0.000233	0.001580
0.000176	0.000905	9.17E-06	
3	0.000937	0.000262	0.003191
0.000273	0.000689	6.79E-06	
4	0.000882	0.000282	0.004536
0.000352	0.000420	3.72E-06	
5	0.000936	0.000284	0.005488
0.000391	0.000160	2.47E-06	
6	0.000937	0.000263	0.005911
0.000388	7.66E-06	4.26E-06	
7	0.000938	0.000222	0.005673
0.000341	0.000125	5.96E-06	
8	0.000940	0.000165	0.004668
0.000259	0.000289	7.75E-06	
9	0.000942	0.000112	0.002787
0.000168	0.000468	9.26E-06	
10	0.000945	8.63E-05	9.56E-08
9.57E-05	0.000653	9.48E-06	
11	0.000943	8.46E-05	0.002265
0.000115	0.000761	1.18E-05	
12	0.000948	0.000114	0.004991
0.000211	0.000804	1.25E-05	
13	0.000950	0.000158	0.007077
0.000306	0.000719	1.07E-05	
14	0.000951	0.000196	0.008510
0.000381	0.000517	7.78E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
295

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
15	0.000952	0.000219	0.009217
0.000433	0.000314	5.24E-06	
16	0.000952	0.000219	0.009473
0.000441	0.000188	4.13E-06	
17	0.000952	0.000196	0.008996
0.000405	0.000229	5.56E-06	
18	0.000952	0.000153	0.007678
0.000328	0.000360	7.29E-06	
19	0.000952	0.000101	0.005547
0.000230	0.000512	8.52E-06	
20	0.000951	7.25E-05	0.002574
0.000126	0.000681	1.03E-05	
21	0.000951	7.68E-05	1.34E-07
7.67E-05	0.000792	1.01E-05	
22	0.000949	9.32E-05	0.002485
0.000116	0.000884	1.26E-05	
23	0.000947	0.000147	0.005442
0.000219	0.000907	1.33E-05	
24	0.000946	0.000206	0.007671
0.000318	0.000805	1.15E-05	
25	0.000943	0.000253	0.009169
0.000399	0.000577	8.37E-06	
26	0.000941	0.000279	0.009839
0.000446	0.000349	5.71E-06	
27	0.000939	0.000280	0.009932
0.000447	0.000206	4.32E-06	
28	0.000937	0.000256	0.009306
0.000401	0.000262	5.69E-06	
29	0.000935	0.000210	0.007825
0.000320	0.000389	7.34E-06	
30	0.000933	0.000152	0.005577
0.000221	0.000527	8.59E-06	
31	0.000931	9.50E-05	0.002558
0.000116	0.000681	1.05E-05	
32	0.000930	7.62E-05	1.49E-07
7.55E-05	0.000782	1.09E-05	
33	0.000929	7.58E-05	0.002754
0.000126	0.000866	1.36E-05	
34	0.000927	0.000115	0.006059
0.000233	0.000831	1.43E-05	
35	0.000925	0.000178	0.008583
0.000332	0.000773	1.26E-05	
36	0.000923	0.000231	0.010309
0.000413	0.000547	9.35E-06	
37	0.000922	0.000264	0.011135
0.000452	0.000324	5.74E-06	
38	0.000921	0.000272	0.011394
0.000444	0.000215	4.36E-06	
39	0.000920	0.000255	0.010705
0.000393	0.000285	6.25E-06	
40	0.000919	0.000217	0.009023
0.000318	0.000435	8.10E-06	
41	0.000919	0.000169	0.006445
0.000222	0.000603	9.08E-06	
42	0.000920	0.000122	0.002962
0.000126	0.000785	1.09E-05	
43	0.000921	9.66E-05	9.23E-08
0.000109	0.000906	1.19E-05	
44	0.000922	8.92E-05	0.003134
0.000196	0.001028	1.73E-05	
45	0.000924	0.000133	0.005398
0.000314	0.001015	1.77E-05	
46	0.000926	0.000202	0.006805
0.000420	0.000866	1.56E-05	
47	0.000928	0.000269	0.007442
0.000493	0.000606	1.22E-05	
48	0.000929	0.000316	0.007390
0.000522	0.000350	8.58E-06	
49	0.000929	0.000339	0.006757
0.000507	0.000224	6.03E-06	
50	0.000928	0.000337	0.005655
0.000440	0.000236	7.02E-06	
51	0.000926	0.000313	0.004193
0.000354	0.000317	9.11E-06	
52	0.000925	0.000277	0.002473
0.000221	0.000361	1.07E-05	
53	0.000924	0.000246	0.000582
9.46E-05	0.000385	1.19E-05	
54	0.000924	0.000241	5.56E-08
7.37E-05	0.000387	1.20E-05	
55	0.000888	0.000137	4.03E-08
5.80E-05	0.000891	5.92E-06	
56	0.000887	0.000134	0.001492
0.000159	0.000818	4.36E-06	
57	0.000887	0.000134	0.003014
0.000320	0.000841	6.39E-06	
58	0.000887	0.000128	0.004283
0.000438	0.000407	1.60E-06	
59	0.000888	0.000118	0.005174
0.000498	0.000171	1.24E-06	
60	0.000889	0.000104	0.005558
0.000493	1.83E-05	1.42E-06	
61	0.000890	8.82E-05	0.005315
0.000429	0.000124	1.81E-06	
62	0.000892	7.35E-05	0.004357
0.000318	0.000277	3.16E-06	
63	0.000894	6.17E-05	0.002596
0.000183	0.000440	4.61E-06	
64	0.000895	5.70E-05	6.76E-08
6.78E-05	0.000609	3.20E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
296

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	0.000896	4.94E-05	0.002113
0.000118	0.000702	4.38E-06	
66	0.000897	4.17E-05	0.004670
0.000224	0.000739	4.11E-06	
67	0.000898	3.96E-05	0.006652
0.000366	0.000665	3.20E-06	
68	0.000899	4.32E-05	0.008031
0.000483	0.000487	2.53E-06	
69	0.000900	4.62E-05	0.008720
0.000553	0.000290	2.10E-06	
70	0.000900	4.59E-05	0.008975
0.000564	0.000175	1.76E-06	
71	0.000900	4.12E-05	0.008509
0.000514	0.000221	1.84E-06	
72	0.000900	3.74E-05	0.007242
0.000410	0.000346	2.48E-06	
73	0.000900	3.81E-05	0.005217
0.000273	0.000488	4.01E-06	
74	0.000899	4.24E-05	0.002416
0.000127	0.000644	5.11E-06	
75	0.000899	4.98E-05	1.01E-07
4.49E-05	0.000749	3.94E-06	
76	0.000899	5.33E-05	0.002329
0.000102	0.000827	5.11E-06	
77	0.000898	6.30E-05	0.005113
0.000247	0.000840	4.87E-06	
78	0.000898	7.94E-05	0.007234
0.000391	0.000741	3.93E-06	
79	0.000898	9.27E-05	0.008676
0.000508	0.000530	3.10E-06	
80	0.000898	0.000101	0.009330
0.000573	0.000311	2.40E-06	
81	0.000898	0.000103	0.009419
0.000575	0.000201	1.88E-06	
82	0.000898	9.83E-05	0.008807
0.000512	0.000253	1.75E-06	
83	0.000898	8.69E-05	0.007381
0.000397	0.000374	2.49E-06	
84	0.000898	7.05E-05	0.005241
0.000253	0.000502	4.05E-06	
85	0.000898	5.77E-05	0.002398
0.000106	0.000642	5.24E-06	
86	0.000898	5.19E-05	1.18E-07
4.20E-05	0.000738	4.43E-06	
87	0.000897	4.42E-05	0.002588
0.000124	0.000806	5.61E-06	
88	0.000897	4.19E-05	0.005708
0.000273	0.000808	5.60E-06	
89	0.000896	4.93E-05	0.008112
0.000414	0.000704	4.89E-06	
90	0.000896	6.60E-05	0.009774
0.000522	0.000494	4.01E-06	
91	0.000895	7.91E-05	0.010577
0.000577	0.000285	3.00E-06	
92	0.000895	8.77E-05	0.010826
0.000566	0.000196	2.16E-06	
93	0.000895	9.14E-05	0.010148
0.000492	0.000278	1.52E-06	
94	0.000895	8.97E-05	0.008524
0.000371	0.000419	1.57E-06	
95	0.000896	8.30E-05	0.006065
0.000231	0.000574	3.79E-06	
96	0.000897	7.49E-05	0.002778
0.000135	0.000740	5.73E-06	
97	0.000898	7.27E-05	5.58E-08
8.52E-05	0.000853	4.68E-06	
98	0.000900	6.27E-05	0.002934
0.000210	0.000953	6.51E-06	
99	0.000902	5.63E-05	0.005067
0.000372	0.000927	6.76E-06	
100	0.000904	5.94E-05	0.006416
0.000517	0.000782	6.67E-06	
101	0.000907	7.54E-05	0.007045
0.000620	0.000539	6.32E-06	
102	0.000909	9.71E-05	0.007020
0.000668	0.000306	5.72E-06	
103	0.000911	0.000116	0.006434
0.000655	0.000193	5.00E-06	
104	0.000913	0.000133	0.005394
0.000579	0.000245	4.55E-06	
105	0.000914	0.000146	0.004004
0.000443	0.000304	3.05E-06	
106	0.000914	0.000151	0.002363
0.000254	0.000346	3.11E-06	
107	0.000913	0.000146	0.000557
7.43E-05	0.000369	5.37E-06	
108	0.000911	0.000144	3.92E-08
6.85E-05	0.000371	5.73E-06	
109	0.000901	0.000114	5.98E-08
7.14E-05	0.000936	1.15E-05	
110	0.000901	0.000114	0.001486
0.000142	0.000865	1.08E-05	
111	0.000901	0.000143	0.003004
0.000246	0.000677	8.55E-06	
112	0.000901	0.000172	0.004275
0.000325	0.000427	5.18E-06	
113	0.000902	0.000183	0.005176
0.000366	0.000170	2.54E-06	
114	0.000903	0.000174	0.005578
0.000365	2.75E-05	2.92E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
297

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000904	0.000148	0.005355
0.000327	0.000122	4.99E-06	
116	0.000906	0.000111	0.004407
0.000253	0.000273	6.50E-06	
117	0.000908	7.87E-05	0.002631
0.000159	0.000445	6.91E-06	
118	0.000909	4.99E-05	9.13E-08
8.06E-05	0.000619	7.73E-06	
119	0.000911	5.01E-05	0.002138
9.44E-05	0.000721	9.18E-06	
120	0.000912	6.89E-05	0.004717
0.000183	0.000857	1.01E-05	
121	0.000913	9.64E-05	0.006696
0.000269	0.000697	9.36E-06	
122	0.000913	0.000127	0.008058
0.000352	0.000511	7.40E-06	
123	0.000914	0.000148	0.008732
0.000403	0.000308	4.99E-06	
124	0.000914	0.000150	0.008981
0.000414	0.000184	4.29E-06	
125	0.000914	0.000132	0.008529
0.000384	0.000217	6.04E-06	
126	0.000913	9.90E-05	0.007279
0.000314	0.000343	7.77E-06	
127	0.000913	6.34E-05	0.005259
0.000217	0.000490	8.49E-06	
128	0.000912	4.57E-05	0.002439
0.000111	0.000652	8.49E-06	
129	0.000912	3.32E-05	1.24E-07
7.10E-05	0.000760	8.81E-06	
130	0.000912	5.40E-05	0.002354
9.04E-05	0.000839	9.84E-06	
131	0.000914	9.92E-05	0.005160
0.000189	0.000858	1.06E-05	
132	0.000911	0.000147	0.007277
0.000291	0.000762	9.61E-06	
133	0.000911	0.000185	0.008702
0.000373	0.000548	7.57E-06	
134	0.000911	0.000206	0.009339
0.000418	0.000330	5.18E-06	
135	0.000912	0.000206	0.009428
0.000419	0.000205	4.70E-06	
136	0.000912	0.000185	0.008833
0.000376	0.000253	6.54E-06	
137	0.000912	0.000146	0.007424
0.000295	0.000375	8.18E-06	
138	0.000912	9.72E-05	0.005288
0.000192	0.000507	8.55E-06	
139	0.000912	5.24E-05	0.002423
9.19E-05	0.000654	8.54E-06	
140	0.000912	4.06E-05	1.40E-07
7.10E-05	0.000750	8.88E-06	
141	0.000911	5.24E-05	0.002609
0.000110	0.000818	1.04E-05	
142	0.000910	7.55E-05	0.005744
0.000217	0.000823	1.12E-05	
143	0.000909	0.000122	0.008139
0.000317	0.000717	1.03E-05	
144	0.000908	0.000164	0.009779
0.000390	0.000499	7.80E-06	
145	0.000907	0.000190	0.010565
0.000423	0.000295	5.02E-06	
146	0.000907	0.000196	0.010805
0.000413	0.000197	4.66E-06	
147	0.000906	0.000181	0.010146
0.000369	0.000279	6.14E-06	
148	0.000906	0.000149	0.008546
0.000281	0.000422	8.88E-06	
149	0.000906	0.000108	0.006098
0.000193	0.000582	9.06E-06	
150	0.000907	7.19E-05	0.002799
0.000104	0.000753	8.73E-06	
151	0.000908	6.25E-05	9.29E-08
9.77E-05	0.000865	9.20E-06	
152	0.000910	7.78E-05	0.002964
0.000193	0.000962	1.15E-05	
153	0.000912	0.000101	0.005108
0.000311	0.000934	1.23E-05	
154	0.000914	0.000138	0.006441
0.000413	0.000782	1.14E-05	
155	0.000917	0.000185	0.007044
0.000479	0.000529	9.03E-06	
156	0.000919	0.000217	0.006994
0.000503	0.000299	6.64E-06	
157	0.000921	0.000230	0.006394
0.000484	0.000190	6.90E-06	
158	0.000922	0.000220	0.005349
0.000430	0.000248	9.84E-06	
159	0.000923	0.000190	0.003965
0.000336	0.000307	1.26E-05	
160	0.000923	0.000144	0.002337
0.000207	0.000347	1.44E-05	
161	0.000922	0.000125	0.000551
7.46E-05	0.000369	1.49E-05	
162	0.000922	0.000123	5.98E-08
5.15E-05	0.000370	1.49E-05	
163	0.000912	0.000162	0.000102
7.27E-05	0.001168	0.000145	
164	0.000911	0.000179	0.001525
0.000151	0.000989	0.000109	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
298

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000910	0.000196	0.003097
0.000337	0.000793	9.68E-05	
166	0.000910	0.000204	0.004410
0.000447	0.000541	7.68E-05	
167	0.000911	0.000200	0.005336
0.000496	0.000327	6.06E-05	
168	0.000912	0.000195	0.005746
0.000490	0.000239	5.60E-05	
169	0.000913	0.000154	0.005512
0.000426	0.000307	5.99E-05	
170	0.000915	0.000117	0.004535
0.000315	0.000416	6.80E-05	
171	0.000918	8.14E-05	0.002712
0.000177	0.000580	8.27E-05	
172	0.000920	5.95E-05	6.18E-05
9.36E-05	0.000695	8.99E-05	
173	0.000921	5.77E-05	0.002209
0.000142	0.000843	0.000102	
174	0.000922	7.86E-05	0.004855
0.000251	0.000899	0.000115	
175	0.000924	0.000104	0.006886
0.000366	0.000825	0.000109	
176	0.000924	0.000124	0.008287
0.000474	0.000638	9.20E-05	
177	0.000925	0.000136	0.008981
0.000536	0.000455	7.45E-05	
178	0.000924	0.000135	0.009238
0.000546	0.000368	6.39E-05	
179	0.000925	0.000121	0.008769
0.000503	0.000378	6.23E-05	
180	0.000925	9.52E-05	0.007481
0.000402	0.000479	7.00E-05	
181	0.000925	6.62E-05	0.005405
0.000262	0.000614	8.25E-05	
182	0.000924	4.36E-05	0.002514
0.000120	0.000722	8.89E-05	
183	0.000923	5.01E-05	6.12E-05
6.48E-05	0.000828	8.91E-05	
184	0.000922	6.67E-05	0.002425
0.000123	0.000960	0.000101	
185	0.000921	0.000104	0.005301
0.000252	0.001002	0.000109	
186	0.000920	0.000141	0.007475
0.000385	0.000913	0.000103	
187	0.000919	0.000172	0.008940
0.000497	0.000702	9.08E-05	
188	0.000919	7.50E-05	0.009599
0.000552	0.000494	7.41E-05	
189	0.000918	0.000192	0.009690
0.000553	0.000391	6.46E-05	
190	0.000917	0.000177	0.009074
0.000500	0.000393	6.95E-05	
191	0.000916	0.000148	0.007625
0.000389	0.000501	7.59E-05	
192	0.000915	0.000110	0.005433
0.000256	0.000627	8.55E-05	
193	0.000914	7.03E-05	0.002498
0.000124	0.000721	8.79E-05	
194	0.000913	5.10E-05	6.09E-05
6.28E-05	0.000817	8.88E-05	
195	0.000912	4.68E-05	0.002689
0.000120	0.000941	0.000104	
196	0.000911	7.41E-05	0.005907
0.000265	0.000977	0.000114	
197	0.000910	0.000114	0.008369
0.000406	0.000906	0.000106	
198	0.000909	0.000148	0.010059
0.000511	0.000678	9.00E-05	
199	0.000908	0.000171	0.010868
0.000557	0.000485	7.16E-05	
200	0.000907	0.000179	0.011127
0.000547	0.000391	6.34E-05	
201	0.000906	0.000172	0.010447
0.000485	0.000408	6.77E-05	
202	0.000906	0.000152	0.008800
0.000382	0.000544	7.94E-05	
203	0.000906	0.000123	0.006286
0.000271	0.000700	9.19E-05	
204	0.000907	9.28E-05	0.002900
0.000162	0.000821	9.70E-05	
205	0.000908	7.33E-05	8.72E-05
0.000105	0.000984	0.000111	
206	0.000910	6.10E-05	0.003053
0.000188	0.001115	0.000132	
207	0.000912	8.58E-05	0.005254
0.000361	0.001109	0.000131	
208	0.000915	0.000127	0.006629
0.000500	0.000974	0.000119	
209	0.000917	0.000167	0.007257
0.000593	0.000739	9.86E-05	
210	0.000920	0.000201	0.007215
0.000632	0.000524	7.64E-05	
211	0.000921	0.000223	0.006603
0.000618	0.000405	6.71E-05	
212	0.000922	0.000231	0.005531
0.000554	0.000385	6.65E-05	
213	0.000923	0.000225	0.004105
0.000439	0.000425	6.84E-05	
214	0.000923	0.000210	0.002425
0.000262	0.000453	7.10E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
299

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000923	0.000189	0.000581
5.04E-05	0.000382	4.77E-05	
216	0.000923	0.000181	9.12E-05
5.85E-05	0.000377	5.86E-05	
217	0.000892	0.000122	0.000108
8.98E-05	0.000108	0.000147	
218	0.000892	0.000106	0.001487
0.000158	0.000965	0.000111	
219	0.000892	0.000107	0.003001
0.000347	0.000806	9.77E-05	
220	0.000892	0.000122	0.004266
0.000470	0.000580	7.78E-05	
221	0.000892	0.000126	0.005160
0.000526	0.000382	6.02E-05	
222	0.000893	0.000119	0.005555
0.000519	0.000247	5.55E-05	
223	0.000894	0.000101	0.005327
0.000450	0.000270	5.95E-05	
224	0.000896	7.76E-05	0.004380
0.000332	0.000385	6.77E-05	
225	0.000897	6.12E-05	0.002615
0.000182	0.000552	8.06E-05	
226	0.000899	4.94E-05	7.57E-05
0.000101	0.000676	8.50E-05	
227	0.000900	4.25E-05	0.002123
0.000145	0.000915	9.37E-05	
228	0.000902	4.09E-05	0.004688
0.000251	0.000880	0.000105	
229	0.000902	5.14E-05	0.006659
0.000368	0.000821	9.83E-05	
230	0.000903	6.94E-05	0.008021
0.000491	0.000649	8.36E-05	
231	0.000903	8.26E-05	0.008696
0.000581	0.000468	6.81E-05	
232	0.000903	8.41E-05	0.008949
0.000573	0.000357	6.36E-05	
233	0.000903	7.31E-05	0.008495
0.000525	0.000346	6.15E-05	
234	0.000903	5.15E-05	0.007246
0.000415	0.000491	6.91E-05	
235	0.000903	4.43E-05	0.005232
0.000265	0.000594	8.01E-05	
236	0.000902	4.29E-05	0.002426
0.000126	0.000703	8.45E-05	
237	0.000901	3.97E-05	7.42E-05
7.71E-05	0.000807	8.80E-05	
238	0.000901	4.56E-05	0.002339
0.000130	0.000934	0.000106	
239	0.000901	6.94E-05	0.005130
0.000252	0.000972	0.000118	
240	0.000900	0.000101	0.007241
0.000387	0.000882	0.000110	
241	0.000900	0.000127	0.008665
0.000509	0.000677	9.31E-05	
242	0.000900	0.000141	0.009305
0.000571	0.000475	7.58E-05	
243	0.000900	0.000142	0.009394
0.000572	0.000370	6.12E-05	
244	0.000899	0.000129	0.008796
0.000512	0.000374	6.52E-05	
245	0.000898	0.000104	0.007387
0.000393	0.000487	7.55E-05	
246	0.000899	7.21E-05	0.005260
0.000256	0.000611	8.40E-05	
247	0.000899	4.74E-05	0.002409
0.000130	0.000704	8.58E-05	
248	0.000899	4.44E-05	7.42E-05
7.59E-05	0.000796	8.59E-05	
249	0.000898	4.58E-05	0.002595
0.000126	0.000912	0.000100	
250	0.000897	4.53E-05	0.005717
0.000264	0.

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000907	0.000142	0.006390
0.000674	0.000352	6.38E-05	
266	0.000907	0.000146	0.005349
0.000602	0.000371	6.49E-05	
267	0.000908	0.000136	0.003965
0.000468	0.000402	6.80E-05	
268	0.000907	0.000124	0.002335
0.000268	0.000441	7.12E-05	
269	0.000906	0.000127	0.000543
5.66E-05	0.000376	4.75E-05	
270	0.000905	0.000133	0.000103
7.15E-05	0.000371	5.81E-05	
271	0.000705	2.03E-05	.000000
0.000114	0.000995	1.08E-05	
272	0.001629	9.15E-05	.000000
0.000110	0.000650	9.48E-06	
273	.000000	.000000	.000000
9.27E-05	0.000791	1.01E-05	
274	0.001905	6.05E-06	.000000
7.87E-05	0.000782	1.03E-05	
275	0.001096	4.63E-05	.000000
0.000158	0.000898	1.19E-05	
276	0.002242	2.21E-05	.000000
6.99E-05	0.000388	1.20E-05	
277	0.000656	8.73E-05	.000000
0.000112	0.000989	5.92E-06	
278	0.001541	8.66E-06	.000000
7.29E-05	0.000606	3.20E-06	
279	.000000	.000000	.000000
5.27E-05	0.000748	3.94E-06	
280	0.001823	5.75E-06	.000000
4.48E-05	0.000738	4.43E-06	
281	0.001021	2.29E-05	.000000
4.99E-05	0.000855	4.68E-06	
282	0.002125	0.000102	.000000
3.57E-05	0.000375	5.73E-06	
283	0.000683	9.42E-05	.000000
0.000229	0.000908	1.15E-05	
284	0.001643	6.92E-05	.000000
0.000181	0.000589	7.73E-06	
285	2.87E-06	9.71E-05	.000000
8.43E-05	0.000758	8.81E-06	
286	0.001789	0.000417	.000000
3.97E-05	0.000747	8.88E-06	
287	0.001024	0.000216	.000000
4.61E-05	0.000867	9.20E-06	
288	0.002128	1.49E-05	.000000
6.11E-05	0.000376	1.49E-05	

COMB DL ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000896	-0.000120	-3.91E-07
-0.000199	-0.000353	-1.16E-05	
2	-0.000895	-0.000127	-0.004396
-0.000306	-0.000337	-1.03E-05	
3	-0.000894	-0.000146	-0.008511
-0.000405	-0.000294	-7.20E-06	
4	-0.000893	-0.000166	-0.011383
-0.000458	-0.000230	-4.65E-06	
5	-0.000893	-0.000173	-0.012703
-0.000460	-0.000193	-4.11E-06	
6	-0.000893	-0.000169	-0.012343
-0.000417	-0.000301	-7.05E-06	
7	-0.000894	-0.000153	-0.010434
-0.000333	-0.000539	-1.07E-05	
8	-0.000895	-0.000133	-0.007370
-0.000220	-0.000710	-1.33E-05	
9	-0.000897	-0.000119	-0.003677
-0.000107	-0.000764	-1.38E-05	
10	-0.000899	-0.000112	-8.94E-07
-7.90E-05	-0.000691	-1.04E-05	
11	-0.000901	-0.000109	-0.002503
-0.000152	-0.000605	-1.03E-05	
12	-0.000903	-0.000115	-0.006506
-0.000281	-0.000479	-8.60E-06	
13	-0.000906	-0.000133	-0.010408
-0.000396	-0.000372	-7.39E-06	
14	-0.000908	-0.000162	-0.013574
-0.000477	-0.000264	-5.66E-06	
15	-0.000910	-0.000179	-0.015392
-0.000511	-0.000213	-4.16E-06	
16	-0.000912	-0.000179	-0.015537
-0.000498	-0.000307	-5.12E-06	
17	-0.000912	-0.000163	-0.013970
-0.000440	-0.000505	-7.57E-06	
18	-0.000913	-0.000133	-0.010946
-0.000342	-0.000728	-1.07E-05	
19	-0.000911	-0.000105	-0.007028
-0.000218	-0.000843	-1.26E-05	
20	-0.000910	-9.03E-05	-0.002800
-9.14E-05	-0.000837	-1.21E-05	
21	-0.000909	-9.23E-05	-9.12E-07
-6.37E-05	-0.000758	-9.74E-06	
22	-0.000908	-9.65E-05	-0.002944
-0.000126	-0.000663	-1.00E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 301
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	-0.000907	-0.000115	-0.007477
-0.000257	-0.000519	-8.52E-06	
24	-0.000905	-0.000142	-0.011798
-0.000379	-0.000394	-7.37E-06	
25	-0.000904	-0.000167	-0.015274
-0.000473	-0.000271	-5.66E-06	
26	-0.000903	-0.000180	-0.017216
-0.000521	-0.000217	-4.32E-06	
27	-0.000901	-0.000182	-0.017278
-0.000521	-0.000337	-5.40E-06	
28	-0.000900	-0.000169	-0.015443
-0.000472	-0.000562	-8.01E-06	
29	-0.000899	-0.000145	-0.012026
-0.000377	-0.000800	-1.14E-05	
30	-0.000898	-0.000117	-0.007697
-0.000254	-0.000918	-1.36E-05	
31	-0.000897	-9.79E-05	-0.003069
-0.000121	-0.000913	-1.34E-05	
32	-0.000896	-9.25E-05	-9.09E-07
-6.09E-05	-0.000838	-1.15E-05	
33	-0.000895	-9.12E-05	-0.002892
-9.59E-05	-0.000739	-1.22E-05	
34	-0.000894	-0.000111	-0.007290
-0.000226	-0.000586	-1.08E-05	
35	-0.000893	-0.000142	-0.011419
-0.000351	-0.000456	-8.42E-06	
36	-0.000892	-0.000175	-0.014680
-0.000452	-0.000319	-6.87E-06	
37	-0.000891	-0.000196	-0.016418
-0.000511	-0.000244	-5.19E-06	
38	-0.000890	-0.000203	-0.016328
-0.000523	-0.000344	-5.41E-06	
39	-0.000890	-0.000195	-0.014432
-0.000486	-0.000547	-7.20E-06	
40	-0.000891	-0.000176	-0.011082
-0.000400	-0.000761	-9.74E-06	
41	-0.000892	-0.000150	-0.006961
-0.000282	-0.000852	-1.17E-05	
42	-0.000893	-0.000139	-0.002704
-0.000152	-0.000816	-1.12E-05	
43	-0.000893	-0.000140	-9.48E-07
-8.50E-05	-0.000714	-9.13E-06	
44	-0.000894	-0.000130	-0.004862
-0.000129	-0.000542	-7.97E-06	
45	-0.000895	-0.000137	-0.009973
-0.000267	-0.000369	-7.96E-06	
46	-0.000895	-0.000167	-0.014608
-0.000407	-0.000206	-6.55E-06	
47	-0.000895	-0.000190	-0.018133
-0.000523	-6.21E-05	-5.47E-06	
48	-0.000895	-0.000200	-0.020032
-0.000601	-4.92E-05	-3.98E-06	
49	-0.000894	-0.000194	-0.020005
-0.000638	-0.000269	-3.07E-06	
50	-0.000894	-0.000173	-0.017981
-0.000624	-0.000592	-4.99E-06	
51	-0.000893	-0.000138	-0.014109
-0.000558	-0.000913	-7.55E-06	
52	-0.000892	-9.69E-05	-0.008689
-0.000438	-0.001191	-9.41E-06	
53	-0.000892	-8.18E-05	-0.002096
-0.000270	-0.001374	-1.01E-05	
54	-0.000892	-5.14E-05	-4.23E-07
-0.000228	-0.001389	-1.01E-05	
55	-0.000851	-0.000103	-4.09E-07
-0.000136	-0.000337	-5.06E-06	
56	-0.000851	-9.15E-05	-0.003894
-0.000288	-0.000322	-3.88E-06	
57	-0.000851	-8.61E-05	-0.007555
-0.000449	-0.000281	-4.29E-06	
58	-0.000851	-8.57E-05	-0.010134
-0.000549	-0.000220	-2.52E-06	
59	-0.000851	-8.48E-05	-0.011352
-0.000576	-0.000166	-2.89E-06	
60	-0.000851	-8.27E-05	-0.011080
-0.000533	-0.000260	-3.50E-06	
61	-0.000852	-7.93E-05	-0.009418
-0.000429	-0.000474	-4.12E-06	
62	-0.000853	-7.50E-05	-0.006700
-0.000285	-0.000636	-4.94E-06	
63	-0.000854	-6.93E-05	-0.003374
-0.000130	-0.000697	-5.34E-06	
64	-0.000855	-6.90E-05	-9.26E-07
-6.02E-05	-0.000643	-4.40E-06	
65	-0.000856	-6.36E-05	-0.002300
-0.000153	-0.000567	-5.06E-06	
66	-0.000857	-5.64E-05	-0.005940
-0.000316	-0.000455	-4.00E-06	
67	-0.000858	-5.26E-05	-0.009466
-0.000469	-0.000358	-2.63E-06	
68	-0.000859	-5.12E-05	-0.012329
-0.000585	-0.000257	-2.03E-06	
69	-0.000859	-4.99E-05	-0.013983
-0.000642	-0.000195	-1.77E-06	
70	-0.000859	-4.87E-05	-0.014134
-0.000633	-0.000269	-1.86E-06	
71	-0.000859	-4.62E-05	-0.012740
-0.000557	-0.000451	-2.33E-06	
72	-0.000859	-4.31E-05	-0.010022
-0.000428	-0.000658	-3.04E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 302
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	-0.000858	-4.37E-05	-0.006477
-0.000269	-0.000770	-4.04E-06	
74	-0.000858	-4.03E-05	-0.002605
-0.000107	-0.000777	-4.45E-06	
75	-0.000858	-5.38E-05	-9.46E-07
-4.15E-05	-0.000715	-3.45E-06	
76	-0.000857	-5.51E-05	-0.002754
-0.000136	-0.000626	-4.80E-06	
77	-0.000857	-6.45E-05	-0.006942
-0.000302	-0.000494	-3.95E-06	
78	-0.000856	-7.38E-05	-0.010901
-0.000461	-0.000378	-2.65E-06	
79	-0.000856	-8.03E-05	-0.014077
-0.000588	-0.000262	-2.10E-06	
80	-0.000856	-8.30E-05	-0.015852
-0.000658	-0.000202	-1.93E-06	
81	-0.000856	-8.49E-05	-0.015915
-0.000658	-0.000297	-2.09E-06	
82	-0.000856	-8.35E-05	-0.014247
-0.000588	-0.000513	-2.55E-06	
83	-0.000856	-7.77E-05	-0.011130
-0.000462	-0.000735	-3.65E-06	
84	-0.000856	-6.76E-05	-0.007163
-0.000302	-0.000850	-5.06E-06	
85	-0.000855	-5.81E-05	-0.002879
-0.000136	-0.000857	-5.84E-06	
86	-0.000855	-5.30E-05	-9.44E-07
-4.05E-05	-0.000792	-5.20E-06	
87	-0.000855	-4.65E-05	-0.002695
-0.000110	-0.000700	-6.61E-06	
88	-0.000853	-4.31E-05	-0.006737
-0.000276	-0.000560	-6.04E-06	
89	-0.000853	-6.00E-05	-0.010495
-0.000437	-0.000440	-4.97E-06	
90	-0.000853	-7.76E-05	-0.013448
-0.000570	-0.000309	-4.33E-06	
91	-0.000852	-9.41E-05	-0.015015
-0.000648	-0.000231	-4.55E-06	
92	-0.000852	-0.000108	-0.014925
-0.000657	-0.000314	-2.78E-06	
93	-0.000852	-0.000116	-0.013199
-0.000596	-0.000514	-2.17E-06	
94	-0.000852	-0.000118	-0.010158
-0.000475	-0.000706	-2.21E-06	
95	-0.000853	-0.000113	-0.006411
-0.000319	-0.000787	-3.35E-06	
96	-0.000853	-0.000104	-0.002510
-0.000155	-0.000760	-4.15E-06	
97	-0.000854	-9.34E-05	-9.64E-07
-6.41E-05	-0.000672	-2.74E-06	
98	-0.000855	-7.11E-05	-0.004532
-0.000139	-0.000512	-4.30E-06	
99	-0.000855	-5.69E-05	-0.009221
-0.000325	-0.000354	-3.22E-06	
100	-0.000856	-4.47E-05	-0.013433
-0.000507	-0.000203	-2.38E-06	
101	-0.000857	-3.73E-05	-0.016613
-0.000457	-6.52E-05	-1.85E-06	
102	-0.000858	-3.43E-05	-0.018297
-0.000754	-6.85E-05	-2.23E-06	
103	-0.000858	-3.36E-05	-0.018220
-0.000787	-0.000276	-2.07E-06	
104	-0.000859	-3.70E-05	-0.016327
-0.000748	-0.000576	-1.92E-06	
105	-0.000859	-4.01E-05	-0.012775
-0.000636	-0.000867	-2.33E-06	
106	-0.000859	-4.56E-05	-0.007850
-0.000453	-0.001103	-3.66E-06	
107	-0.000858	-5.71E-05	-0.001894
-0.000230	-0.001252	-7.46E-06	
108	-0.000866	-6.14E-05	-4.44E-07
-0.000186	-0.001265	-8.08E-06	
109	-0.000865	-0.000100	-3.63E-07
-0.000223	-0.000337	-1.19E-05	
110	-0.000864	-9.78E-05	-0.004055
-0.000296	-0.000324	-1.14E-05	
111	-0.000864	-0.000101	-0.007858
-0.000398	-0.000285	-9.72E-06	
112	-0.000864	-0.000117	-0.010514
-0.000456	-0.000224	-6.90E-06	
113	-0.000865	-0.000132	-0.011739
-0.000464	-0.000163	-3.74E-06	
114	-0.000865	-0.000138	-0.011412
-0.000423	-0.000264	-4.81E-06	
115	-0.000866	-0.000130	-0.009649
-0.000342	-0.000475	-7.64E-06	
116	-0.000867	-0.000110	-0.006817
-0.000240	-0.000645	-9.44E-06	
117	-0.000868	-8.84E-05	-0.003402
-0.000150	-0.000707	-9.46E-06	
118	-0.000870	-6.61E-05	-8.57E-07
-0.000320	-0.000655	-9.21E-06	
119	-0.000871	-6.87E-05	-0.002324
-0.000170	-0.000580	-8.13E-06	
120	-0.000872	-9.22E-05	-0.006042
-0.000276	-0.000463	-8.64E-06	
121	-0.000873	-0.000119	-0.009668
-0.000391	-0.000361	-8.64E-06	
122	-0.000874	-0.000142	-0.012611
-0.000474	-0.000258	-6.56E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >

303

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000874	-0.000157	-0.014302
-0.000512	-0.000196	-4.55E-06	
124	-0.000874	-0.000158	-0.014437
-0.000501	-0.000278	-4.63E-06	
125	-0.000873	-0.000147	-0.012981
-0.000443	-0.000456	-6.75E-06	
126	-0.000873	-0.000123	-0.010171
-0.000346	-0.000672	-8.79E-06	
127	-0.000872	-9.13E-05	-0.006541
-0.000237	-0.000785	-9.34E-06	
128	-0.000871	-5.96E-05	-0.002627
-0.000135	-0.000788	-9.34E-06	
129	-0.000871	-4.99E-05	-8.76E-07
-0.000106	-0.000726	-8.37E-06	
130	-0.000871	-6.74E-05	-0.002776
-0.000151	-0.000637	-8.19E-06	
131	-0.000870	-9.34E-05	-0.007004
-0.000260	-0.000500	-8.48E-06	
132	-0.000870	-0.000126	-0.011015
-0.000379	-0.000380	-7.88E-06	
133	-0.000870	-0.000151	-0.014240
-0.000472	-0.000262	-6.23E-06	
134	-0.000871	-0.000163	-0.016043
-0.000523	-0.000206	-4.51E-06	
135	-0.000870	-0.000163	-0.016104
-0.000522	-0.000317	-5.10E-06	
136	-0.000870	-0.000149	-0.014407
-0.000471	-0.000531	-7.44E-06	
137	-0.000870	-0.000123	-0.011240
-0.000377	-0.000756	-2.63E-06	
138	-0.000870	-8.97E-05	-0.007219
-0.000259	-0.000867	-1.10E-05	
139	-0.000870	-6.32E-05	-0.002898
-0.000150	-0.000868	-1.06E-05	
140	-0.000869	-5.42E-05	-8.74E-07
-0.000104	-0.000803	-9.72E-06	
141	-0.000869	-6.68E-05	-0.002719
-0.000138	-0.000708	-9.64E-06	
142	-0.000868	-0.000101	-0.006806
-0.000243	-0.000561	-9.00E-06	
143	-0.000867	-0.000135	-0.010623
-0.000354	-0.000436	-8.10E-06	
144	-0.000866	-0.000163	-0.013653
-0.000453	-0.000304	-4.62E-06	
145	-0.000865	-0.000178	-0.015271
-0.000514	-0.000236	-4.94E-06	
146	-0.000864	-0.000180	-0.015187
-0.000524	-0.000334	-4.97E-06	
147	-0.000864	-0.000167	-0.013422
-0.000483	-0.000538	-6.74E-06	
148	-0.000864	-0.000149	-0.010305
-0.000396	-0.000736	-8.42E-06	
149	-0.000864	-0.000133	-0.006476
-0.000279	-0.000815	-9.41E-06	
150	-0.000864	-0.000110	-0.002531
-0.000171	-0.000774	-8.67E-06	
151	-0.000863	-9.94E-05	-9.12E-07
-0.000124	-0.000682	-7.36E-06	
152	-0.000865	-0.000110	-0.004563
-0.000170	-0.000517	-7.67E-06	
153	-0.000866	-0.000132	-0.009302
-0.000280	-0.000350	-8.05E-06	
154	-0.000867	-0.000152	-0.013576
-0.000415	-0.000199	-6.49E-06	
155	-0.000868	-0.000168	-0.016809
-0.000529	-7.08E-05	-5.15E-06	
156	-0.000868	-0.000170	-0.018529
-0.000608	-8.03E-05	-3.65E-06	
157	-0.000869	-0.000152	-0.018488
-0.000641	-0.000283	-3.43E-06	
158	-0.000869	-0.000115	-0.016611
-0.000623	-0.000599	-5.53E-06	
159	-0.000869	-7.86E-05	-0.013030
-0.000553	-0.000901	-9.29E-06	
160	-0.000869	-6.13E-05	-0.008021
-0.000427	-0.001149	-1.23E-05	
161	-0.000869	-6.56E-05	-0.001936
-0.000269	-0.001298	-1.38E-05	
162	-0.000868	-6.73E-05	-3.94E-07
-0.000244	-0.001307	-1.39E-05	
163	-0.000874	-8.87E-05	-0.000142
-0.000197	-0.000371	-7.60E-05	
164	-0.000873	-0.000100	-0.004079
-0.000304	-0.000467	-6.54E-05	
165	-0.000872	-0.000137	-0.007939
-0.000506	-0.000415	-6.51E-05	
166	-0.000872	-0.000129	-0.010668
-0.000610	-0.000377	-6.32E-05	
167	-0.000872	-0.000132	-0.011946
-0.000627	-0.000390	-6.49E-05	
168	-0.000873	-0.000116	-0.011648
-0.000571	-0.000486	-7.52E-05	
169	-0.000873	-0.000116	-0.009877
-0.000455	-0.000673	-9.08E-05	
170	-0.000874	-9.92E-05	-0.007007
-0.000299	-0.000826	-0.000102	
171	-0.000875	-8.28E-05	-0.003520
-0.000167	-0.000870	-0.000108	
172	-0.000877	-7.20E-05	-9.00E-05
-9.21E-05	-0.000776	-9.46E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 304
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	-0.000878	-7.33E-05	-0.002397
-0.000148	-0.000650	-8.58E-05	
174	-0.000880	-8.04E-05	-0.006206
-0.000327	-0.000581	-8.56E-05	
175	-0.000882	-9.34E-05	-0.009903
-0.000495	-0.000484	-7.78E-05	
176	-0.000883	-0.000108	-0.012914
-0.000618	-0.000391	-7.15E-05	
177	-0.000884	-0.000117	-0.014655
-0.000673	-0.000390	-6.54E-05	
178	-0.000885	-0.000115	-0.014807
-0.000659	-0.000475	-7.00E-05	
179	-0.000885	-0.000109	-0.013331
-0.000580	-0.000640	-8.33E-05	
180	-0.000884	-9.28E-05	-0.010468
-0.000440	-0.000844	-9.55E-05	
181	-0.000883	-7.19E-05	-0.006752
-0.000264	-0.000942	-9.72E-06	
182	-0.000882	-5.33E-05	-0.002708
-0.000125	-0.000914	-9.73E-05	
183	-0.000882	-5.27E-05	-8.72E-05
-7.20E-05	-0.000794	-8.66E-05	
184	-0.000881	-6.20E-05	-0.002859
-0.000134	-0.000705	-8.75E-05	
185	-0.000881	-8.41E-05	-0.007224
-0.000299	-0.000620	-8.32E-05	
186	-0.000880	-0.000105	-0.011360
-0.000475	-0.000505	-7.25E-05	
187	-0.000879	-0.000122	-0.014690
-0.000610	-0.000400	-6.49E-05	
188	-0.000879	-0.000130	-0.016556
-0.000676	-0.000392	-6.50E-05	
189	-0.000878	-0.000132	-0.016620
-0.000675	-0.000482	-7.40E-05	
190	-0.000878	-0.000125	-0.014865
-0.000608	-0.000688	-9.31E-05	
191	-0.000877	-0.000109	-0.011595
-0.000473	-0.000910	-0.000112	
192	-0.000876	-8.79E-05	-0.007450
-0.000297	-0.001013	-0.000121	
193	-0.000876	-6.43E-05	-0.002988
-0.000134	-0.000990	-0.000111	
194	-0.000875	-5.32E-05	-8.70E-05
-7.01E-05	-0.000872	-9.41E-05	
195	-0.000874	-5.28E-05	-0.002800
-0.000125	-0.000779	-9.19E-05	
196	-0.000873	-7.13E-05	-0.007019
-0.000270	-0.000685	-8.77E-05	
197	-0.000872	-0.000100	-0.010952
-0.000450	-0.000565	-7.86E-05	
198	-0.000871	-0.000125	-0.014056
-0.000593	-0.000445	-6.99E-05	
199	-0.000870	-0.000143	-0.015709
-0.000673	-0.000407	-6.43E-05	
200	-0.000870	-0.000152	-0.015616
-0.000685	-0.000484	-7.04E-05	
201	-0.000870	-0.000159	-0.013801
-0.000628	-0.000667	-8.59E-05	
202	-0.000870	-0.000145	-0.010608
-0.000500	-0.000866	-0.000102	
203	-0.000871	-0.000130	-0.006684
-0.000328	-0.000945	-0.000110	
204	-0.000872	-0.000109	-0.002612
-0.000149	-0.000896	-9.92E-05	
205	-0.000872	-9.81E-05	-0.000105
-9.13E-05	-0.000758	-9.03E-05	
206	-0.000873	-9.09E-05	-0.004705
-0.000173	-0.000644	-8.51E-05	
207	-0.000874	-9.90E-05	-0.009607
-0.000332	-0.000482	-7.17E-05	
208	-0.000875	-0.000112	-0.014023
-0.000524	-0.000348	-5.98E-05	
209	-0.000875	-0.000120	-0.017374
-0.000683	-0.000261	-5.30E-05	
210	-0.000876	-0.000121	-0.019158
-0.000788	-0.000258	-5.31E-05	
211	-0.000876	-0.000115	-0.019093
-0.000830	-0.000396	-6.78E-05	
212	-0.000876	-0.000104	-0.017117
-0.000800	-0.000703	-9.32E-05	
213	-0.000876	-8.63E-05	-0.013392
-0.000689	-0.001011	-0.000121	
214	-0.000876	-6.52E-05	-0.008227
-0.000490	-0.001122	-0.000147	
215	-0.000877	-5.34E-05	-0.001982
-0.000203	-0.001358	-0.000109	
216	-0.000877	-5.25E-05	-0.000128
-0.000221	-0.001314	-0.000131	
217	-0.000854	-9.32E-05	-0.000186
-0.000214	-0.000357	-7.70E-05	
218	-0.000854	-8.66E-05	-0.003961
-0.000275	-0.000446	-6.68E-05	
219	-0.000854	-8.69E-05	-0.007675
-0.000472	-0.000400	-6.58E-05	
220	-0.000853	-8.95E-05	-0.010304
-0.000564	-0.000365	-6.33E-05	
221	-0.000854	-9.17E-05	-0.011538
-0.000577	-0.000341	-6.29E-05	
222	-0.000854	-9.33E-05	-0.011253
-0.000527	-0.000395	-7.32E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 305
< MOVING LOAD >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	-0.000854	-9.06E-05	-0.009547
-0.000422	-0.000595	-8.81E-05	
224	-0.000855	-8.35E-05	-0.006780
-0.000277	-0.000761	-9.77E-05	
225	-0.000856	-7.35E-05	-0.003416
-0.000159	-0.000819	-0.000101	
226	-0.000858	-6.47E-05	-0.000142
-8.49E-05	-0.000751	-8.83E-05	
227	-0.000859	-5.83E-05	-0.002332
-0.000133	-0.000634	-8.19E-05	
228	-0.000860	-5.99E-05	-0.006015
-0.000310	-0.000569	-8.31E-05	
229	-0.000861	-7.15E-05	-0.009593
-0.000469	-0.000474	-7.61E-05	
230	-0.000862	-8.38E-05	-0.012506
-0.000579	-0.000384	-6.74E-05	
231	-0.000863	-9.20E-05	-0.014191
-0.000626	-0.000360	-6.21E-05	
232	-0.000863	-9.24E-05	-0.014340
-0.000614	-0.000417	-7.21E-05	
233	-0.000863	-8.47E-05	-0.012913
-0.000545	-0.000580	-8.58E-05	
234	-0.000862	-7.04E-05	-0.010144
-0.000420	-0.000789	-0.000102	
235	-0.000862	-5.37E-05	-0.006549
-0.000257	-0.000897	-0.000111	
236	-0.000861	-4.17E-05	-0.002635
-0.000117	-0.000882	-0.000102	
237	-0.000861	-4.83E-05	-0.000136
-6.54E-05	-0.000773	-8.54E-05	
238	-0.000860	-5.82E-05	-0.002782
-0.000121	-0.000688	-8.32E-05	
239	-0.000860	-7.65E-05	-0.007009
-0.000292	-0.000604	-8.03E-05	
240	-0.000860	-8.83E-05	-0.011015
-0.000457	-0.000492	-7.04E-05	
241	-0.000859	-9.95E-05	-0.014239
-0.000579	-0.000383	-6.56E-05	
242	-0.000859	-0.000107	-0.016047
-0.000638	-0.000370	-6.47E-05	
243	-0.000859	-0.000107	-0.016108
-0.000638	-0.000461	-6.82E-05	
244	-0.000859	-0.000100	-0.014407
-0.000578	-0.000660	-8.48E-05	
245	-0.000859	-9.01E-05	-0.011241
-0.000457	-0.000876	-0.000104	
246	-0.000859	-7.76E-05	-0.007228
-0.000292	-0.000981	-0.000114	
247	-0.000859	-5.81E-05	-0.002907
-0.000122	-0.000963	-0.000106	
248	-0.000859	-4.56E-05	-0.000136
-6.41E-05	-0.000849	-9.23E-05	
249	-0.000858	-4.43E-05	-0.002725
-0.000120	-0.000759	-9.31E-05	
250	-0.000858	-6.11E-05	-0.006809
-0.000263	-0.000665	-9.06E-05	
251	-0.000857	-8.59E-05	-0.010618
-0.000430	-0.000547	-7.99E-05	
252	-0.000856	-0.000107	-0.013623
-0.000557	-0.000421	-7.04E-05	
253	-0.000855	-0.000120	-0.015224
-0.000627	-0.000391	-6.41E-05	
254	-0.000855	-0.000126	-0.015133
-0.000638	-0.000485	-6.72E-05	
255	-0.000855	-0.000128	-0.013375
-0.000590	-0.000673	-8.42E-05

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
-7.54E-05	-0.000756	-9.74E-06	
274	-0.001690	-6.82E-06	.000000
-6.43E-05	-0.000837	-1.15E-05	
275	-0.001325	-3.83E-05	.000000
-0.000117	-0.000707	-9.13E-06	
276	-0.001214	-1.20E-05	.000000
-0.000206	-0.001393	-1.01E-05	
277	-0.001119	-5.12E-05	.000000
-0.000111	-0.000332	-5.06E-06	
278	-0.001557	-8.57E-05	.000000
-6.65E-05	-0.000642	-4.10E-06	
279	.000000	.000000	.000000
-4.81E-05	-0.000714	-3.45E-06	
280	-0.001606	-6.52E-06	.000000
-4.37E-05	-0.000792	-5.20E-06	
281	-0.001226	-2.74E-05	.000000
-4.68E-05	-0.000674	-2.74E-06	
282	-0.001167	-5.63E-05	.000000
-8.50E-05	-0.001275	-8.08E-06	
283	-0.001196	-6.15E-05	.000000
-0.000189	-0.000318	-1.19E-05	
284	-0.001571	-0.000104	.000000
-0.000216	-0.000619	-8.21E-06	
285	-4.53E-06	-0.000153	.000000
-0.000119	-0.000724	-8.37E-06	
286	-0.001573	-0.000427	.000000
-4.34E-05	-0.000801	-9.72E-06	
287	-0.001221	-0.000321	.000000
-6.79E-05	-0.000686	-7.36E-06	
288	-0.001158	-0.000257	.000000
-7.53E-05	-0.001312	-1.39E-05	

COMB CAR ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000939	0.000215	6.40E-08
0.000101	0.000994	1.08E-05	
2	0.000938	0.000233	0.001580
0.000176	0.000905	9.17E-06	
3	0.000937	0.000262	0.003191
0.000273	0.000689	6.79E-06	
4	0.000936	0.000282	0.004536
0.000352	0.000420	3.72E-06	
5	0.000936	0.000284	0.005488
0.000391	0.000160	2.47E-06	
6	0.000937	0.000263	0.005911
0.000388	7.66E-06	4.26E-06	
7	0.000938	0.000222	0.005673
0.000341	-0.000125	5.96E-06	
8	0.000940	0.000165	0.004668
0.000259	0.000289	7.75E-06	
9	0.000942	0.000112	0.002787
0.000168	0.000468	9.26E-06	
10	0.000945	8.63E-05	9.56E-08
9.57E-05	0.000653	9.48E-06	
11	0.000946	8.46E-05	0.002265
0.000115	0.000761	1.18E-05	
12	0.000948	0.000114	0.004991
0.000211	0.000804	1.25E-05	
13	0.000950	0.000158	0.007077
0.000306	0.000719	1.07E-05	
14	0.000951	0.000196	0.008510
0.000381	0.000517	7.78E-06	
15	0.000952	0.000219	0.009217
0.000433	0.000314	5.24E-06	
16	0.000952	0.000219	0.009473
0.000441	0.000188	4.13E-06	
17	0.000952	0.000196	0.008996
0.000405	0.000229	5.56E-06	
18	0.000952	0.000153	0.007678
0.000328	0.000360	7.29E-06	
19	0.000952	0.000101	0.005547
0.000230	0.000512	8.52E-06	
20	0.000951	7.25E-05	0.002574
0.000126	0.000681	1.03E-05	
21	0.000951	7.65E-05	1.34E-07
7.67E-05	0.000792	1.01E-05	
22	0.000949	9.32E-05	0.002485
0.000116	0.000884	1.26E-05	
23	0.000947	0.000147	0.005442
0.000219	0.000907	1.33E-05	
24	0.000945	0.000206	0.007671
0.000318	0.000905	1.15E-05	
25	0.000943	0.000253	0.009169
0.000399	0.000577	8.37E-06	
26	0.000941	0.000279	0.009839
0.000446	0.000349	5.71E-06	
27	0.000939	0.000280	0.009932
0.000447	0.000216	4.32E-06	
28	0.000938	0.000256	0.009306
0.000401	0.000262	5.69E-06	
29	0.000935	0.000210	0.007825
0.000320	0.000389	7.34E-06	
30	0.000933	0.000152	0.005577
0.000221	0.000527	8.59E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	0.000931	9.50E-05	0.002558
0.000116	0.000681	1.05E-05	
32	0.000930	7.62E-05	1.49E-07
7.55E-05	0.000782	1.09E-05	
33	0.000929	7.58E-05	0.002754
0.000126	0.000866	1.36E-05	
34	0.000927	0.000115	0.006059
0.000233	0.000881	1.43E-05	
35	0.000925	0.000178	0.008583
0.000332	0.000773	1.26E-05	
36	0.000923	0.000231	0.010309
0.000413	0.000547	9.35E-06	
37	0.000922	0.000264	0.011135
0.000452	0.000324	5.74E-06	
38	0.000921	0.000272	0.011394
0.000444	0.000215	4.36E-06	
39	0.000920	0.000255	0.010705
0.000393	0.000285	6.25E-06	
40	0.000919	0.000217	0.009023
0.000318	0.000435	8.10E-06	
41	0.000919	0.000169	0.006445
0.000222	0.000603	9.08E-06	
42	0.000920	0.000122	0.002962
0.000126	0.000785	1.09E-05	
43	0.000921	9.66E-05	9.23E-08
0.000109	0.000906	1.19E-05	
44	0.000922	8.92E-05	0.003134
0.000196	0.001028	1.75E-05	
45	0.000924	0.000133	0.005398
0.000314	0.001015	1.77E-05	
46	0.000926	0.000202	0.006805
0.000420	0.000866	1.56E-05	
47	0.000928	0.000269	0.007442
0.000493	0.000606	1.22E-05	
48	0.000929	0.000316	0.007390
0.000522	0.000350	8.58E-06	
49	0.000929	0.000339	0.006757
0.000507	0.000224	6.03E-06	
50	0.000928	0.000337	0.005655
0.000450	0.000256	7.02E-06	
51	0.000926	0.000313	0.004193
0.000354	0.000317	9.11E-06	
52	0.000925	0.000277	0.002473
0.000221	0.000361	1.07E-05	
53	0.000924	0.000246	0.000582
9.46E-05	0.000385	1.19E-05	
54	0.000924	0.000241	5.56E-08
7.37E-05	0.000387	1.20E-05	
55	0.000888	0.000137	4.03E-08
5.80E-05	0.000891	5.92E-06	
56	0.000887	0.000134	0.001492
0.000159	0.000818	4.36E-06	
57	0.000887	0.000134	0.003014
0.000320	0.000841	8.39E-06	
58	0.000887	0.000128	0.004283
0.000438	0.000407	1.60E-06	
59	0.000888	0.000118	0.005174
0.000498	0.000171	1.24E-06	
60	0.000889	0.000104	0.005558
0.000493	2.01E-05	1.42E-06	
61	0.000891	8.82E-05	0.005315
0.000429	0.000124	1.81E-06	
62	0.000892	7.35E-05	0.004357
0.000318	0.000277	3.16E-06	
63	0.000894	6.17E-05	0.002596
0.000183	0.000440	4.61E-06	
64	0.000895	5.70E-05	6.76E-08
6.78E-05	0.000609	5.20E-06	
65	0.000896	4.94E-05	0.002113
0.000118	0.000702	4.38E-06	
66	0.000897	4.17E-05	0.004670
0.000224	0.000739	4.11E-06	
67	0.000898	3.96E-05	0.006652
0.000366	0.000665	3.20E-06	
68	0.000899	4.32E-05	0.008031
0.000483	0.000487	2.53E-06	
69	0.000900	4.62E-05	0.008720
0.000553	0.000290	2.10E-06	
70	0.000900	4.59E-05	0.008975
0.000564	0.000175	1.76E-06	
71	0.000900	4.12E-05	0.008509
0.000514	0.000221	1.84E-06	
72	0.000900	3.74E-05	0.007242
0.000410	0.000346	2.48E-06	
73	0.000900	3.81E-05	0.005217
0.000273	0.000488	4.01E-06	
74	0.000899	4.24E-05	0.002416
0.000127	0.000644	5.11E-06	
75	0.000899	4.98E-05	1.01E-07
4.49E-05	0.000749	3.94E-06	
76	0.000899	5.33E-05	0.002329
0.000102	0.000827	5.11E-06	
77	0.000898	6.30E-05	0.005113
0.000247	0.000840	4.87E-06	
78	0.000898	7.94E-05	0.007234
0.000391	0.000741	3.93E-06	
79	0.000898	9.27E-05	0.008676
0.000508	0.000530	3.10E-06	
80	0.000898	0.000101	0.009330
0.000573	0.000311	2.40E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
81	0.000898	0.000103	0.009419
0.000575	0.000201	1.88E-06	
82	0.000898	9.83E-05	0.008807
0.000512	0.000253	1.75E-06	
83	0.000898	8.69E-05	0.007381
0.000397	0.000374	2.49E-06	
84	0.000898	7.05E-05	0.005241
0.000253	0.000502	4.05E-06	
85	0.000898	5.77E-05	0.002398
0.000106	0.000642	5.24E-06	
86	0.000898	5.19E-05	1.18E-07
4.20E-05	0.000738	4.43E-06	
87	0.000897	4.42E-05	0.002588
0.000124	0.000806	5.61E-06	
88	0.000897	4.19E-05	0.005708
0.000273	0.000808	5.60E-06	
89	0.000896	4.93E-05	0.008112
0.000414	0.000704	4.89E-06	
90	0.000896	6.60E-05	0.009774
0.000522	0.000494	4.01E-06	
91	0.000895	7.91E-05	0.010577
0.000577	0.000285	3.00E-06	
92	0.000895	8.77E-05	0.010826
0.000566	0.000196	2.16E-06	
93	0.000895	9.14E-05	0.010148
0.000492	0.000278	1.52E-06	
94	0.000895	8.97E-05	0.008524
0.000371	0.000419	1.57E-06	
95	0.000896	8.30E-05	0.006065
0.000231	0.000574	3.79E-06	
96	0.000897	7.49E-05	0.002778
0.000135	0.000740	5.73E-06	
97	0.000898	7.27E-05	5.58E-08
8.52E-05	0.000853	4.68E-06	
98	0.000900	6.27E-05	0.002934
0.000210	0.000953	6.51E-06	
99	0.000902	5.63E-05	0.005067
0.000372	0.000927	6.76E-06	
100	0.000904	5.94E-05	0.006416
0.000517	0.000782	6.67E-06	
101	0.000907	7.54E-05	0.007045
0.000620	0.000539	6.32E-06	
102	0.000909	9.71E-05	0.007020
0.000668	0.000306	5.72E-06	
103	0.000911	0.000116	0.006434
0.000655	0.000193	5.00E-06	
104	0.000913	0.000133	0.005394
0.000579	0.000245	4.05E-06	
105	0.000914	0.000144	0.004004
0.000443	0.000304	3.05E-06	
106	0.000914	0.000151	0.002363
0.000254	0.000346	3.11E-06	
107	0.000913	0.000146	0.000557
7.43E-05	0.000369	5.37E-06	
108	0.000912	0.000144	3.92E-08
6.85E-05	0.000371	5.73E-06	
109	0.000901	0.000114	5.98E-08
7.14E-05	0.000936	1.15E-05	
110	0.000901	0.000114	0.001486
0.000142	0.000865	1.08E-05	
111	0.000901	0.000143	0.003004
0.000246	0.000677	8.55E-06	
112	0.000901	0.000172	0.004275
0.000325	0.000427	5.18E-06	
113	0.000902	0.000183	0.005176
0.000366	0.000170	2.54E-06	
114	0.000903	0.000174	0.005578
0.000365	3.16E-05	2.92E-06	
115	0.000904	0.000148	0.005355
0.000327	0.000122	4.99E-06	
116	0.000906	0.000111	0.004407
0.000253	0.000273	6.50E-06	
117	0.000908	7.87E-05	0.002631
0.000159	0.000445	6.91E-06	
118	0.000909	4.99E-05	9.13E-08
8.06E-05	0.000619	7.73E-06	
119	0.000911	5.01E-05	0.002138
9.44E-05	0.000721	9.18E-06	
120	0.000912	6.89E-05	0.004717
0.000183	0.000771	1.01E-05	
121	0.000913	9.64E-05	0.006696
0.000269	0.000697	9.36E-06	
122	0.000913	0.000127	0.008058
0.000352	0.000511	7.40E-06	
123	0.000914	0.000148	0.008732
0.000403	0.000308	4.99E-06	
124	0.000914	0.000150	0.008981
0.000414	0.000184	4.29E-06	
125	0.000912	0.000132	0.008529
0.000384	0.000217	6.04E-06	
126	0.000913	9.90E-05	0.007279
0.000314	0.000343	7.77E-06	
127	0.000913	6.34E-05	0.005259
0.000217	0.000490	8.49E-06	
128	0.000912	4.57E-05	0.002439
0.000111	0.000652	8.49E-06	
129	0.000912	3.32E-05	1.24E-07
7.10E-05	0.000760	8.81E-06	
130	0.000912	5.40E-05	0.002354
9.04E-05	0.000839	9.84E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
131	0.000911	9.92E-05	0.005160
0.000189	0.000858	1.06E-05	
132	0.000911	0.000147	0.007277
0.000291	0.000762	9.61E-06	
133	0.000911	0.000185	0.008702
0.000373	0.000548	7.57E-06	
134	0.000911	0.000206	0.009339
0.000418	0.000330	5.18E-06	
135	0.000912	0.000206	0.009428
0.000419	0.000205	4.70E-06	
136	0.000912	0.000185	0.008833
0.000376	0.000253	6.54E-06	
137	0.000912	0.000146	0.007424
0.000295	0.000375	8.19E-06	
138	0.000912	9.72E-05	0.005288
0.000192	0.000507	8.55E-06	
139	0.000912	5.24E-05	0.002423
9.19E-05	0.000654	8.54E-06	
140	0.000912	4.06E-05	1.40E-07
7.10E-05	0.000750	8.88E-06	
141	0.000911	5.24E-05	0.002609
0.000110	0.000818	1.04E-05	
142	0.000910	7.55E-05	0.005744
0.000217	0.000823	1.12E-05	
143	0.000909	0.000122	0.008139
0.000317	0.000717	1.03E-05	
144	0.000908	0.000164	0.009779
0.000390	0.000499	7.80E-06	
145	0.000907	0.000190	0.010565
0.000423	0.000295	5.02E-06	
146	0.000907	0.000196	0.010805
0.000413	0.000197	4.66E-06	
147	0.000906	0.000181	0.010146
0.000360	0.000279	7.14E-06	
148	0.000906	0.000149	0.008546
0.000281	0.000422	8.88E-06	
149	0.000906	0.000108	0.006098
0.000193	0.000582	9.06E-06	
150	0.000907	7.19E-05	0.002799
0.000104	0.000753	8.73E-06	
151	0.000908	6.20E-05	9.29E-08
9.77E-05	0.000865	5.22E-06	
152	0.000910	7.78E-05	0.002964
0.000193	0.000962	1.15E-05	
153	0.000912	0.000101	0.005108
0.000311	0.000934	1.23E-05	
154	0.000914	0.000138	0.006441
0.000413	0.000782	1.14E-05	
155	0.000917	0.000185	0.007044
0.000479	0.000529	9.03E-06	
156	0.000919	0.000217	0.006994
0.000503	0.000299	6.64E-06	
157	0.000921	0.000230	0.006394
0.000484	0.000190	6.90E-06	
158	0.000922	0.000220	0.005349
0.000430	0.000248	9.84E-06	
159	0.000923	0.000190	0.003965
0.000336	0.000307	1.26E-05	
160	0.000923	0.000144	0.002337
0.000207	0.000347	1.44E-05	
161	0.000922	0.000125	0.000551
7.46E-05	0.000369	1.49E-05	
162	0.000922	0.000123	5.98E-08
5.15E-05	0.000370	1.49E-05	
163	0.000912	0.000162	0.000102
7.27E-05	0.001168	0.000145	
164	0.000911	0.000179	0.001525
0.000151	0.000989	0.000109	
165	0.000910	0.000196	0.003097
0.000337	0.000793	9.68E-05	
166	0.000910	0.000204	0.004410
0.000447	0.000541	7.68E-05	
167	0.000911	0.000200	0.005336
0.000496	0.000327	6.06E-05	
168	0.000912	0.000183	0.005746
0.000490	0.000239	5.50E-05	
169	0.000913	0.000154	0.005512
0.000426	0.000307	5.99E-05	
170	0.000915	0.000117	0.004535
0.000315	0.000416	6.80E-05	
171	0.000918	8.14E-05	0.002712
0.000177	0.000519	8.27E-05	
172	0.000920	5.95E-05	6.18E-05
9.36E-05	0.000695	8.99E-05	
173	0.000921	5.77E-05	0.002209
0.000142	0.000843	0.000102	
174	0.000922	7.86E-05	0.004855
0.000251	0.000899	0.000115	
175	0.000924	0.000104	0.006886
0.000366	0.000825	0.000109	
176	0.000924	0.000124	0.008287
0.000474	0.000638	9.20E-05	
177	0.000925	0.000136	0.008981
0.000536	0.000455	7.45E-05	
178	0.000925	0.000135	0.009238
0.000546	0.000368	6.39E-05	
179	0.000925	0.000121	0.008769
0.000503	0.000378	6.23E-05	
180	0.000925	9.52E-05	0.007481
0.000402	0.000479	7.00E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	0.000925	6.62E-05	0.005405
0.000262	0.000914	8.25E-05	
182	0.000924	4.36E-05	0.002514
0.000120	0.000722	8.89E-05	
183	0.000923	5.01E-05	6.12E-05
6.48E-05	0.000828	8.91E-05	
184	0.000922	6.67E-05	0.002425
0.000123	0.000960	0.000101	
185	0.000921	0.000104	0.005301
0.000252	0.001002	0.000109	
186	0.000920	0.000141	0.007475
0.000385	0.000913	0.000103	
187	0.000919	0.000172	0.008940
0.000497	0.000702	9.08E-05	
188	0.000919	0.000190	0.009599
0.000552	0.000494	7.41E-05	
189	0.000918	0.000192	0.009690
0.000553	0.000391	6.46E-05	
190	0.000917	0.000177	0.009074
0.000500	0.000393	6.95E-05	
191	0.000916	0.000148	0.007625
0.000389	0.000501	7.59E-05	
192	0.000915	0.000110	0.005433
0.000256	0.000627	8.55E-05	
193	0.000914	7.03E-05	0.002498
0.000124	0.000721	8.79E-05	
194	0.000913	5.10E-05	6.09E-05
6.28E-05	0.000817	8.88E-05	
195	0.000911	4.88E-05	0.002689
0.000120	0.000941	0.000104	
196	0.000911	7.41E-05	0.005907
0.000265	0.000977	0.000114	
197	0.000910	0.000114	0.008369
0.000406	0.000887	0.000106	
198	0.000909	0.000148	0.010059
0.000511	0.000678	9.00E-05	
199	0.000908	0.000171	0.010868
0.000557	0.000485	7.16E-05	
200	0.000907	0.000179	0.011127
0.000547	0.000391	6.34E-05	
201	0.000906	0.000172	0.010447
0.000485	0.000408	6.77E-05	
202	0.000906	0.000152	0.008800
0.000382	0.000544	7.94E-05	
203	0.000906	0.000123	0.006286
0.000271	0.000700	9.19E-05	
204	0.000907	9.28E-05	0.002900
0.000162	0.000821	9.73E-05	
205	0.000908	7.33E-05	8.72E-05
0.000105	0.000984	0.000111	
206	0.000910	6.10E-05	0.003053
0.000188	0.001115	0.000132	
207	0.000912	8.58E-05	0.005254
0.000361	0.001109	0.000131	
208	0.000915	0.000127	0.006629
0.000500	0.000974	0.000119	
209	0.000917	0.000167	0.007257
0.000593	0.000739	9.86E-05	
210	0.000920	0.000201	0.007215
0.000632	0.000524	7.64E-05	
211	0.000921	0.000223	0.006603
0.000618	0.000405	6.71E-05	
212	0.000922	0.000231	0.005531
0.000554	0.000385	6.65E-05	
213	0.000923	0.000225	0.004105
0.000439	0.000425	6.84E-05	
214	0.000923	0.000210	0.002425
0.000262	0.000453	7.11E-05	
215	0.000923	0.000189	0.000581
5.04E-05	0.000382	4.77E-05	
216	0.000923	0.000181	9.12E-05
5.85E-05	0.000377	5.86E-05	
217	0.000892	0.000122	0.000108
8.98E-05	0.001098	0.000147	
218	0.000892	0.000106	0.001487
0.000158	0.000965	0.000111	
219	0.000892	0.000107	0.003001
0.000347	0.000806	9.77E-05	
220	0.000892	0.000122	0.004266
0.000470	0.000580	7.78E-05	
221	0.000892	0.000126	0.005160
0.000526	0.000382	6.00E-05	
222	0.000893	0.000119	0.005555
0.000519	0.000247	5.55E-05	
223	0.000894	0.000101	0.005327
0.000450	0.000270	5.95E-05	
224	0.000896	7.76E-05	0.004380
0.000332	0.000385	6.77E-05	
225	0.000897	6.12E-05	0.002615
0.000182	0.000552	8.06E-05	
226	0.000899	4.94E-05	7.57E-05
0.000101	0.000676	8.50E-05	
227	0.000900	4.25E-05	0.002123
0.000145	0.000815	9.37E-05	
228	0.000901	4.09E-05	0.004688
0.000251	0.000880	9.16E-05	
229	0.000902	5.14E-05	0.006659
0.000368	0.000821	9.83E-05	
230	0.000903	6.94E-05	0.008021
0.000491	0.000649	8.36E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	0.000903	8.26E-05	0.008696
0.000561	0.000468	6.87E-05	
232	0.000903	8.41E-05	0.008949
0.000573	0.000357	6.36E-05	
233	0.000903	7.31E-05	0.008495
0.000525	0.000346	6.15E-05	
234	0.000903	5.15E-05	0.007246
0.000415	0.000456	6.91E-05	
235	0.000903	4.43E-05	0.005232
0.000265	0.000594	8.01E-05	
236	0.000902	4.29E-05	0.002426
0.000126	0.000703	8.45E-05	
237	0.000901	3.97E-05	7.42E-05
7.71E-05	0.000807	8.80E-05	
238	0.000901	4.56E-05	0.002339
0.000130	0.000834	0.000106	
239	0.000901	6.94E-05	0.005130
0.000252	0.000972	0.000118	
240	0.000900	0.000101	0.007241
0.000387	0.000882	0.000110	
241	0.000900	0.000127	0.008665
0.000509	0.000677	9.31E-05	
242	0.000900	0.000141	0.009305
0.000571	0.000475	7.58E-05	
243	0.000900	0.000142	0.009394
0.000572	0.000370	6.12E-05	
244	0.000899	0.000129	0.008796
0.000512	0.000374	6.52E-05	
245	0.000899	0.000104	0.007387
0.000393	0.000487	7.55E-05	
246	0.000899	7.21E-05	0.005260
0.000256	0.000611	8.40E-05	
247	0.000899	4.74E-05	0.002409
0.000130	0.000704	8.58E-05	
248	0.000898	4.44E-05	7.42E-05
7.59E-05	0.000796	8.59E-05	
249	0.000898	4.58E-05	0.002595
0.000126	0.000912	0.000100	
250	0.000897	4.53E-05	0.005717
0.000264	0.000935	0.000110	
251	0.000896	6.99E-05	0.008107
0.000418	0.000936	0.000103	
252	0.000895	9.88E-05	0.009746
0.000533	0.000622	8.84E-05	
253	0.000894	0.000117	0.010531
0.000583	0.000434	7.01E-05	
254	0.000894	0.000125	0.010777
0.000572	0.000362	6.03E-05	
255	0.000893	0.000120	0.010114
0.000500	0.000400	6.61E-05	
256	0.000893	0.000105	0.008512
0.000374	0.000533	7.84E-05	
257	0.000894	8.23E-05	0.006070
0.000265	0.000686	9.18E-05	
258	0.000894	6.80E-05	0.002783
0.000164	0.000903	9.66E-05	
259	0.000895	6.14E-05	8.59E-05
0.000114	0.000956	0.000109	
260	0.000

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
281	0.001021	2.29E-05	.000000
4.99E-05	0.000855	4.68E-06	
282	0.002125	0.000102	.000000
3.57E-05	0.000375	5.73E-06	
283	0.000683	9.42E-05	.000000
0.000229	0.000908	1.15E-05	
284	0.001543	6.92E-05	.000000
0.000181	0.000589	7.73E-06	
285	2.87E-05	9.71E-05	.000000
8.43E-05	0.000758	8.81E-06	
286	0.001789	0.000417	.000000
3.97E-05	0.000747	8.88E-06	
287	0.001024	0.000216	.000000
4.61E-05	0.000867	9.20E-06	
288	0.002128	0.000338	.000000
6.11E-05	0.000376	1.49E-05	

COMB CAR ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000896	-0.000120	-3.91E-07
-0.000199	-0.000353	-1.16E-05	
2	-0.000895	-0.000127	-0.004396
-0.000306	-0.000337	-1.03E-05	
3	-0.000894	-0.000146	-0.008511
-0.000405	-0.000294	-7.20E-06	
4	-0.000893	-0.000166	-0.011383
-0.000458	-0.000230	-4.65E-06	
5	-0.000893	-0.000173	-0.012703
-0.000460	-0.000193	-4.31E-06	
6	-0.000893	-0.000169	-0.012343
-0.000417	-0.000301	-7.05E-06	
7	-0.000894	-0.000153	-0.010434
-0.000333	-0.000539	-1.07E-05	
8	-0.000895	-0.000133	-0.007370
-0.000220	-0.000710	-1.33E-05	
9	-0.000897	-0.000119	-0.003677
-0.000107	-0.000764	-1.38E-05	
10	-0.000899	-0.000112	-8.94E-07
-7.90E-05	-0.000691	-1.04E-05	
11	-0.000901	-0.000109	-0.002503
-0.000152	-0.000605	-1.03E-05	
12	-0.000903	-0.000115	-0.006506
-0.000281	-0.000479	-8.60E-06	
13	-0.000906	-0.000133	-0.010408
-0.000396	-0.000372	-7.39E-06	
14	-0.000908	-0.000162	-0.013574
-0.000477	-0.000264	-5.66E-06	
15	-0.000910	-0.000179	-0.015392
-0.000511	-0.000213	-4.16E-06	
16	-0.000912	-0.000179	-0.015537
-0.000498	-0.000307	-5.12E-06	
17	-0.000912	-0.000163	-0.013970
-0.000440	-0.000505	-7.57E-06	
18	-0.000913	-0.000133	-0.010946
-0.000342	-0.000728	-1.07E-05	
19	-0.000911	-0.000105	-0.007028
-0.000218	-0.000843	-1.26E-05	
20	-0.000910	-9.03E-05	-0.002800
-9.14E-05	-0.000837	-1.21E-05	
21	-0.000909	-9.20E-05	-9.12E-07
-6.37E-05	-0.000758	-9.74E-06	
22	-0.000908	-9.65E-05	-0.002944
-0.000126	-0.000663	-1.00E-05	
23	-0.000907	-0.000115	-0.007477
-0.000257	-0.000519	-8.52E-06	
24	-0.000905	-0.000142	-0.011798
-0.000379	-0.000394	-7.37E-06	
25	-0.000904	-0.000167	-0.015274
-0.000473	-0.000271	-5.66E-06	
26	-0.000903	-0.000180	-0.017216
-0.000521	-0.000217	-4.32E-06	
27	-0.000901	-0.000182	-0.017278
-0.000521	-0.000337	-5.40E-06	
28	-0.000900	-0.000169	-0.015443
-0.000472	-0.000562	-8.01E-06	
29	-0.000899	-0.000145	-0.012026
-0.000377	-0.000800	-1.14E-05	
30	-0.000898	-0.000117	-0.007697
-0.000254	-0.000918	-1.36E-05	
31	-0.000897	-9.79E-05	-0.003069
-0.000121	-0.001013	-1.04E-05	
32	-0.000896	-9.25E-05	-9.09E-07
-6.09E-05	-0.000838	-1.15E-05	
33	-0.000895	-9.12E-05	-0.002892
-9.59E-05	-0.000739	-1.22E-05	
34	-0.000894	-0.000111	-0.007290
-0.000226	-0.000586	-1.08E-05	
35	-0.000893	-0.000142	-0.011419
-0.000351	-0.000456	-8.42E-06	
36	-0.000892	-0.000175	-0.014680
-0.000452	-0.000319	-6.87E-06	
37	-0.000891	-0.000196	-0.016418
-0.000511	-0.000244	-5.19E-06	
38	-0.000890	-0.000203	-0.016328
-0.000523	-0.000344	-5.41E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	-0.000890	-0.000195	-0.014432
-0.000486	-0.000547	-7.20E-06	
40	-0.000891	-0.000176	-0.011082
-0.000400	-0.000761	-9.74E-06	
41	-0.000892	-0.000150	-0.006961
-0.000282	-0.000852	-1.07E-05	
42	-0.000893	-0.000139	-0.002704
-0.000152	-0.000816	-1.12E-05	
43	-0.000893	-0.000140	-9.48E-07
-8.50E-05	-0.000714	-9.13E-06	
44	-0.000894	-0.000130	-0.004862
-0.000129	-0.000542	-9.97E-06	
45	-0.000895	-0.000137	-0.009973
-0.000267	-0.000369	-7.96E-06	
46	-0.000895	-0.000167	-0.014608
-0.000407	-0.000206	-6.55E-06	
47	-0.000895	-0.000190	-0.018133
-0.000523	-6.21E-05	-5.47E-06	
48	-0.000895	-0.000200	-0.020032
-0.000601	-4.92E-05	-3.98E-06	
49	-0.000894	-0.000194	-0.020005
-0.000638	-0.000269	-3.07E-06	
50	-0.000894	-0.000173	-0.017981
-0.000624	-0.000592	-4.99E-06	
51	-0.000893	-0.000138	-0.014109
-0.000558	-0.000913	-7.55E-06	
52	-0.000892	-9.69E-05	-0.008689
-0.000438	-0.001191	-9.41E-06	
53	-0.000892	-8.18E-05	-0.002096
-0.000270	-0.001374	-1.01E-05	
54	-0.000893	-8.14E-05	-4.23E-07
-0.000228	-0.001389	-1.01E-05	
55	-0.000851	-0.000103	-4.21E-07
-0.000136	-0.000337	-5.63E-06	
56	-0.000851	-9.15E-05	-0.003894
-0.000288	-0.000322	-4.20E-06	
57	-0.000851	-8.61E-05	-0.007555
-0.000449	-0.000281	-2.59E-06	
58	-0.000851	-8.57E-05	-0.010134
-0.000549	-0.000220	-2.52E-06	
59	-0.000851	-8.48E-05	-0.011352
-0.000576	-0.000166	-2.89E-06	
60	-0.000851	-8.27E-05	-0.011080
-0.000533	-0.000260	-3.50E-06	
61	-0.000852	-7.98E-05	-0.009418
-0.000429	-0.000474	-4.12E-06	
62	-0.000853	-7.50E-05	-0.006700
-0.000285	-0.000636	-4.94E-06	
63	-0.000854	-6.93E-05	-0.003374
-0.000130	-0.000697	-5.34E-06	
64	-0.000855	-6.90E-05	-9.26E-07
-6.02E-05	-0.000643	-4.10E-06	
65	-0.000856	-6.36E-05	-0.002300
-0.000153	-0.000567	-5.06E-06	
66	-0.000857	-5.64E-05	-0.005940
-0.000316	-0.000455	-4.00E-06	
67	-0.000858	-5.26E-05	-0.009466
-0.000469	-0.000358	-2.63E-06	
68	-0.000859	-5.12E-05	-0.012329
-0.000585	-0.000257	-2.03E-06	
69	-0.000859	-4.99E-05	-0.013983
-0.000642	-0.000195	-1.77E-06	
70	-0.000859	-4.87E-05	-0.014134
-0.000633	-0.000269	-1.86E-06	
71	-0.000859	-4.62E-05	-0.012740
-0.000557	-0.000451	-2.33E-06	
72	-0.000859	-4.31E-05	-0.010022
-0.000428	-0.000658	-3.04E-06	
73	-0.000858	-4.37E-05	-0.006477
-0.000269	-0.000770	-4.04E-06	
74	-0.000858	-4.82E-05	-0.002605
-0.000107	-0.000777	-4.45E-06	
75	-0.000858	-5.38E-05	-9.46E-07
-4.15E-05	-0.000715	-3.45E-06	
76	-0.000857	-5.51E-05	-0.002754
-0.000136	-0.000626	-4.80E-06	
77	-0.000857	-6.45E-05	-0.006942
-0.000302	-0.000494	-3.95E-06	
78	-0.000856	-7.38E-05	-0.010901
-0.000461	-0.000378	-2.65E-06	
79	-0.000856	-8.03E-05	-0.014077
-0.000588	-0.000262	-2.10E-06	
80	-0.000856	-8.30E-05	-0.015852
-0.000658	-0.000202	-1.93E-06	
81	-0.000856	-8.49E-05	-0.015915
-0.000658	-0.000297	-2.12E-06	
82	-0.000856	-8.35E-05	-0.014247
-0.000588	-0.000513	-2.55E-06	
83	-0.000856	-7.77E-05	-0.011130
-0.000462	-0.000735	-3.65E-06	
84	-0.000856	-6.76E-05	-0.007163
-0.000302	-0.000850	-5.06E-06	
85	-0.000855	-5.81E-05	-0.002879
-0.000136	-0.000857	-5.64E-06	
86	-0.000855	-5.30E-05	-9.44E-07
-4.05E-05	-0.000792	-5.20E-06	
87	-0.000855	-4.65E-05	-0.002695
-0.000110	-0.000700	-4.61E-06	
88	-0.000854	-4.61E-05	-0.006737
-0.000276	-0.000560	-6.04E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	-0.000853	-6.00E-05	-0.010495
-0.000437	-0.000440	-4.97E-06	
90	-0.000853	-7.76E-05	-0.013448
-0.000570	-0.000309	-4.33E-06	
91	-0.000852	-9.41E-05	-0.015015
-0.000648	-0.000231	-3.55E-06	
92	-0.000852	-0.000108	-0.014925
-0.000657	-0.000314	-2.78E-06	
93	-0.000852	-0.000116	-0.013199
-0.000596	-0.000514	-2.17E-06	
94	-0.000852	-0.000118	-0.010158
-0.000475	-0.000706	-2.14E-06	
95	-0.000853	-0.000117	-0.006411
-0.000319	-0.000787	-3.35E-06	
96	-0.000853	-0.000104	-0.002510
-0.000155	-0.000760	-4.15E-06	
97	-0.000854	-9.34E-05	-9.64E-07
-6.41E-05	-0.000672	-2.74E-06	
98	-0.000855	-7.11E-05	-0.004532
-0.000139	-0.000512	-4.30E-06	
99	-0.000855	-5.69E-05	-0.009221
-0.000325	-0.000354	-3.22E-06	
100	-0.000856	-4.47E-05	-0.013433
-0.000507	-0.000203	-2.38E-06	
101	-0.000857	-3.73E-05	-0.016613
-0.000657	-0.000125	-2.14E-06	
102	-0.000858	-3.43E-05	-0.018297
-0.000754	-6.85E-05	-2.23E-06	
103	-0.000858	-3.36E-05	-0.018220
-0.000787	-0.000276	-2.07E-06	
104	-0.000859	-3.70E-05	-0.016327
-0.000748	-0.000576	-1.92E-06	
105	-0.000859	-4.01E-05	-0.012775
-0.000636	-0.000867	-2.33E-06	
106	-0.000859	-4.56E-05	-0.007850
-0.000453	-0.001103	-3.66E-06	
107	-0.000858	-5.71E-05	-0.001894
-0.000230	-0.001252	-7.46E-06	
108	-0.000858	-6.14E-05	-4.44E-07
-0.000186	-0.001265	-7.46E-06	
109	-0.000865	-0.000100	-3.63E-07
-0.000223	-0.000337	-1.19E-05	
110	-0.000864	-9.78E-05	-0.004055
-0.000296	-0.000324	-1.14E-05	
111	-0.000864	-0.000101	-0.007858
-0.000398	-0.000285	-1.20E-06	
112	-0.000864	-0.000117	-0.010514
-0.000456	-0.000224	-6.90E-06	
113	-0.000865	-0.000132	-0.011739
-0.000464	-0.000163	-3.74E-06	
114	-0.000865	-0.000138	-0.011412
-0.000423	-0.000264	-4.81E-06	
115	-0.000866	-0.000130	-0.009649
-0.000342	-0.000475	-7.64E-06	
116	-0.000867	-0.000110	-0.006817
-0.000240	-0.000645	-9.44E-06	
117	-0.000868	-8.84E-05	-0.003402
-0.000150	-0.000707	-9.46E-06	
118	-0.000870	-6.61E-05	-8.57E-07
-0.000120	-0.000755	-1.03E-06	
119	-0.000871	-6.87E-05	-0.002324
-0.000170	-0.000580	-8.13E-06	
120	-0.000872	-9.22E-05	-0.006042
-0.000276	-0.000463	-8.64E-06	
121	-0.000873	-0.000119	-0.009668
-0.000391	-0.000361	-8.23E-06	
122	-0.000874	-0.000142	-0.012611
-0.000474	-0.000258	-6.56E-06	
123	-0.000874	-0.000157	-0.014302
-0.000512	-0.000196	-4.55E-06	
124	-0.000874	-0.000158	-0.014437
-0.000501	-0.000278	-4.63E-06	
125	-0.000873	-0.000147	-0.012981
-0.000443	-0.000456	-6.75E-06	
126	-0.000873	-0.000123	-0.010171
-0.000346	-0.000672	-8.79E-06	
127	-0.000872	-9.13E-05	-0.006541
-0.000237	-0.000785	-9.91E-06	
128	-0.000871	-5.96E-05	-0.002627
-0.000135	-0.000788	-9.34E-06	
129	-0.000871	-4.99E-05	-8.76E-07
-0.000106	-0.000726	-8.37E-06	
130	-0.000871	-6.74E-05	-0.002776
-0.000151	-0.000637	-8.19E-06	
131	-0.000870	-9.34E-05	-0.007004
-0.000260	-0.000500	-8.48E-06	
132	-0.000870	-0.000126	-0.011015
-0.000379	-0.000380	-7.88E-06	
133	-0.000870	-0.000151	-0.014240
-0.000472	-0.000262	-6.23E-06	
134	-0.000870	-0.000163	-0.016043
-0.000523	-0.000870	-4.51E-06	
135	-0.000870	-0.000163	-0.016104
-0.000522	-0.000317	-5.10E-06	
136	-0.000870	-0.000149	-0.014407
-0.000471	-0.000531	-7.44E-06	
137	-0.000870	-0.000123	-0.011240
-0.000377	-0.000756	-9.77E-06	
138	-0.000870	-8.97E-05	-0.007219
-0.000259	-0.000867	-1.10E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	-0.000870	-6.32E-05	-0.002898
-0.000150	-0.000868	-1.06E-05	
140	-0.000869	-5.42E-05	-8.74E-07
-0.000104	-0.000803	-9.72E-06	
141	-0.000869	-6.68E-05	-0.002719
-0.000138	-0.000708	-9.64E-06	
142	-0.000868	-0.000101	-0.006806
-0.000243	-0.000561	-9.00E-06	
143	-0.000867	-0.000135	-0.010623
-0.000354	-0.000436	-8.10E-06	
144	-0.000866	-0.000163	-0.013653
-0.000453	-0.000314	-6.64E-06	
145	-0.000865	-0.000178	-0.015271
-0.000514	-0.000236	-4.94E-06	
146	-0.000864	-0.000180	-0.015187
-0.000524	-0.000334	-4.97E-06	
147	-0.000864	-0.000167	-0.013422
-0.000483	-0.000538	-6.74E-06	
148	-0.000864	-0.000133	-0.010305
-0.000396	-0.000736	-8.42E-06	
149	-0.000864	-0.000133	-0.006476
-0.000279	-0.000815	-9.41E-06	
150	-0.000864	-0.000110	-0.002531
-0.000171	-0.000774	-8.67E-06	
151	-0.000865	-9.94E-05	-9.12E-07
-0.000124	-0.000682	-7.26E-06	
152	-0.000865	-0.000110	-0.004563
-0.000170	-0.000517	-7.67E-06	
153	-0.000866	-0.000132	-0.009302
-0.000280	-0.000350	-8.05E-06	
154	-0.000867	-0.000152	-0.013576
-0.000415	-0.000199	-6.98E-06	
155	-0.000868	-0.000168	-0.016809
-0.000529	-7.08E-05	-5.15E-06	
156	-0.000868	-0.000170	-0.018529
-0.000608	-8.35E-05	-3.65E-06	
157	-0.000869	-0.000152	-0.018488
-0.000641	-0.000283	-3.43E-06	
158	-0.000868	-0.000125	-0.016611
-0.000623	-0.000599	-5.53E-06	
159	-0.000869	-7.86E-05	-0.013030
-0.000553	-0.000901	-9.29E-06	
160	-0.000869	-6.13E-05	-0.008021
-0.000427	-0.001149	-1.23E-05	
161	-0.000869	-6.56E-05	-0.001936
-0.000269	-0.001298	-1.38E-05	
162	-0.000868	-6.73E-05	-3.94E-07
-0.000244	-0.001307	-1.39E-05	
163	-0.000874	-8.87E-05	-0.000146
-0.000197	-0.000371	-7.60E-05	
164	-0.000873	-0.000100	-0.004079
-0.000304	-0.000467	-6.54E-05	
165	-0.000872	-0.000117	-0.007939
-0.000506	-0.000415	-6.51E-05	
166	-0.000872	-0.000129	-0.010668
-0.000610	-0.000377	-6.32E-05	
167	-0.000872	-0.000132	-0.011946
-0.000627	-0.000390	-6.49E-05	
168	-0.000872	-0.000128	-0.011648
-0.000571	-0.000486	-7.25E-05	
169	-0.000873	-0.000116	-0.009877
-0.000455	-0.000673	-9.08E-05	
170	-0.000874	-9.92E-05	-0.007007
-0.000299	-0.000826	-0.000102	
171	-0.000875	-8.28E-05	-0.003520
-0.000167	-0.000870	-0.000108	
172	-0.000877	-7.20E-05	-9.00E-05
-9.21E-05	-0.000776	-9.46E-05	
173	-0.000878	-7.33E-05	-0.002397
-0.000148	-0.000650	-8.58E-05	
174	-0.000880	-8.04E-05	-0.006206
-0.000327	-0.000581	-8.56E-05	
175	-0.000882	-9.38E-05	-0.009903
-0.000495	-0.000484	-7.78E-05	
176	-0.000883	-0.000108	-0.012914
-0.000618	-0.000391	-7.15E-05	
177	-0.000884	-0.000117	-0.014655
-0.000673	-0.000390	-6.54E-05	
178	-0.000885	-0.000117	-0.014807
-0.000659	-0.000475	-7.09E-05	
179	-0.000885	-0.000109	-0.013331
-0.000580	-0.000640	-8.33E-05	
180	-0.000884	-9.28E-05	-0.010468
-0.000440	-0.000844	-9.55E-05	
181	-0.000883	-7.19E-05	-0.006752
-0.000264	-0.000942	-0.000103	
182	-0.000882	-5.33E-05	-0.002708
-0.000125	-0.000914	-9.73E-05	
183	-0.000882	-5.27E-05	-8.72E-05
-7.20E-05	-0.000794	-8.66E-05	
184	-0.000881	-6.20E-05	-0.002859
-0.000134	-0.000705	-8.75E-05	
185	-0.000881	-8.41E-05	-0.007224
-0.000299	-0.001265	-8.36E-05	
186	-0.000880	-0.000105	-0.011360
-0.000475	-0.000505	-7.25E-05	
187	-0.000879	-0.000122	-0.014690
-0.000610	-0.000400	-6.49E-05	
188	-0.000879	-0.000130	-0.016556
-0.000676	-0.000392	-6.50E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	-0.000878	-0.000132	-0.016620
-0.000675	-0.000482	-7.40E-05	
190	-0.000878	-0.000125	-0.014865
-0.000608	-0.000688	-9.31E-05	
191	-0.000877	-0.000109	-0.011595
-0.000473	-0.000910	-0.000112	
192	-0.000876	-8.79E-05	-0.007450
-0.000297	-0.001013	-0.000121	
193	-0.000876	-6.43E-05	-0.002988
-0.000134	-0.000990	-0.000111	
194	-0.000875	-5.32E-05	-8.70E-05
-7.01E-05	-0.000872	-9.41E-05	
195	-0.000874	-5.28E-05	-0.002800
-0.000125	-0.000779	-9.19E-05	
196	-0.000873	-7.13E-05	-0.007019
-0.000270	-0.000685	-8.77E-05	
197	-0.000872	-0.000100	-0.010952
-0.000450	-0.000565	-7.86E-05	
198	-0.000871	-0.000125	-0.014056
-0.000593	-0.000445	-6.99E-05	
199	-0.000870	-0.000143	-0.015709
-0.000673	-0.000407	-6.43E-05	
200	-0.000870	-0.000152	-0.015616
-0.000685	-0.000484	-7.04E-05	
201	-0.000870	-0.000151	-0.013801
-0.000628	-0.000667	-8.59E-05	
202	-0.000870	-0.000145	-0.010608
-0.000500	-0.000866	-0.000102	
203	-0.000871	-0.000130	-0.006684
-0.000328	-0.000945	-0.000110	
204	-0.000872	-0.000109	-0.002612
-0.000149	-0.000896	-9.91E-05	
205	-0.000872	-9.81E-05	-0.000105
-9.13E-05	-0.000758	-9.03E-05	
206	-0.000873	-9.09E-05	-0.004705
-0.000173	-0.000644	-8.51E-05	
207	-0.000874	-9.90E-05	-0.009607
-0.000332	-0.000482	-7.17E-05	
208	-0.000875	-0.000112	-0.014023
-0.000524	-0.000348	-5.98E-05	
209	-0.000875	-0.000120	-0.017374
-0.000683	-0.000261	-5.30E-05	
210	-0.000876	-0.000121	-0.019158
-0.000788	-0.000258	-5.31E-05	
211	-0.000876	-0.000115	-0.019093
-0.000830	-0.000396	-6.78E-05	
212	-0.000876	-0.000104	-0.017117
-0.000800	-0.000703	-9.32E-05	
213	-0.000876	-8.63E-05	-0.013392
-0.000689	-0.001011	-0.000121	
214	-0.000876	-6.52E-05	-0.008227
-0.000490	-0.001262	-0.000147	
215	-0.000877	-5.34E-05	-0.001982
-0.000203	-0.001358	-0.000109	
216	-0.000877	-5.25E-05	-0.000128
-0.000221	-0.001314	-0.000131	
217	-0.000854	-9.32E-05	-0.000194
-0.000214	-0.000357	-7.70E-05	
218	-0.000854	-8.66E-05	-0.003961
-0.000275	-0.000446	-8.78E-05	
219	-0.000854	-8.69E-05	-0.007675
-0.000472	-0.000400	-6.58E-05	
220	-0.000853	-8.95E-05	-0.010304
-0.000564	-0.000365	-6.33E-05	
221	-0.000854	-9.17E-05	-0.011538
-0.000577	-0.000341	-6.33E-05	
222	-0.000854	-9.33E-05	-0.011253
-0.000527	-0.000395	-7.32E-05	
223	-0.000854	-9.06E-05	-0.009547
-0.000422	-0.000595	-8.81E-05	
224	-0.000855	-8.35E-05	-0.006780
-0.000277	-0.000761	-9.77E-05	
225	-0.000856	-7.35E-05	-0.003416
-0.000159	-0.000819	-0.000101	
226	-0.000858	-6.47E-05	-0.000142
-8.49E-05	-0.000751	-8.83E-05	
227	-0.000859	-5.83E-05	-0.002332
-0.000133	-0.000634	-8.19E-05	
228	-0.000860	-5.99E-05	-0.006015
-0.000310	-0.000569	-8.31E-05	
229	-0.000861	-7.15E-05	-0.009593
-0.000469	-0.000474	-7.61E-05	
230	-0.000862	-8.38E-05	-0.012506
-0.000579	-0.000384	-6.74E-05	
231	-0.000863	-9.20E-05	-0.014191
-0.000626	-0.000360	-6.21E-05	
232	-0.000863	-9.24E-05	-0.014340
-0.000614	-0.000417	-7.21E-05	
233	-0.000863	-8.47E-05	-0.012913
-0.000545	-0.000580	-8.58E-05	
234	-0.000862	-7.04E-05	-0.010144
-0.000420	-0.000789	-0.000102	
235	-0.000862	-5.37E-05	-0.006549
-0.000257	-0.000897	-0.000111	
236	-0.000861	-4.17E-05	-0.002635
-0.000117	-0.000882	-0.000102	
237	-0.000861	-4.83E-05	-0.000136
-6.54E-05	-0.000773	-8.54E-05	
238	-0.000860	-5.95E-05	-0.002782
-0.000121	-0.000688	-8.32E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	-0.000860	-7.65E-05	-0.007009
-0.000292	-0.000604	-8.03E-05	
240	-0.000860	-8.83E-05	-0.011015
-0.000457	-0.000492	-7.04E-05	
241	-0.000859	-9.95E-05	-0.014239
-0.000579	-0.000383	-6.36E-05	
242	-0.000859	-0.000107	-0.016047
-0.000638	-0.000370	-6.47E-05	
243	-0.000859	-0.000107	-0.016108
-0.000638	-0.000461	-6.82E-05	
244	-0.000859	-0.000100	-0.014407
-0.000578	-0.000660	-8.48E-05	
245	-0.000859	-9.01E-05	-0.011241
-0.000457	-0.000876	-0.000104	
246	-0.000859	-7.76E-05	-0.007228
-0.000292	-0.000981	-0.000114	
247	-0.000859	-5.81E-05	-0.002907
-0.000122	-0.000963	-0.000106	
248	-0.000859	-4.56E-05	-0.000136
-6.41E-05	-0.000875	-9.41E-05	
249	-0.000858	-4.43E-05	-0.002725
-0.000120	-0.000759	-9.31E-05	
250	-0.000858	-6.11E-05	-0.006809
-0.000263	-0.000665	-9.06E-05	
251	-0.000857	-8.59E-05	-0.010618
-0.000430	-0.000547	-7.99E-05	
252	-0.000857	-0.000103	-0.013623
-0.000557	-0.000421	-7.04E-05	
253	-0.000855	-0.000120	-0.015224
-0.000627	-0.000391	-6.41E-05	
254	-0.000855	-0.000126	-0.015133
-0.000638	-0.000485	-6.72E-05	
255	-0.000855	-0.000128	-0.013375
-0.000590	-0.000673	-8.41E-05	
256	-0.000855	-0.000129	-0.010281
-0.000476	-0.000857	-0.000102	
257	-0.000855	-0.000121	-0.006482
-0.000313	-0.000922	-0.000110	
258	-0.000856	-0.000104	-0.002538
-0.000138	-0.000871	-9.05E-05	
259	-0.000856	-8.90E-05	-0.000166
-8.57E-05	-0.000738	-8.77E-05	
260	-0.000857	-8.12E-05	-0.004570
-0.000163	-0.000621	-8.27E-05	
261	-0.000858	-7.78E-05	-0.009300
-0.000308	-0.000457	-6.94E-05	
262	-0.000859	-7.98E-05	-0.013559
-0.000486	-0.000310	-5.86E-05	
263	-0.000859	-8.21E-05	-0.016788
-0.000629	-0.000231	-5.10E-05	
264	-0.000860	-7.80E-05	-0.018504
-0.000724	-0.000295	-5.21E-05	
265	-0.000860	-6.58E-05	-0.018434
-0.000764	-0.000470	-6.68E-05	
266	-0.000860	-4.79E-05	-0.016518
-0.000744	-0.000743	-9.25E-05	
267	-0.000860	-4.68E-05	-0.012918
-0.000650	-0.001018	-0.000121	
268	-0.000860	-4.91E-05	-0.007932
-

-4.81E-05	-0.000714	-3.45E-06	
280	-0.001606	-6.52E-06	.000000
-4.37E-05	-0.000792	-5.20E-06	
281	-0.001222	-2.74E-05	.000000
-4.68E-05	-0.000674	-2.74E-06	
282	-0.001167	-5.63E-05	.000000
-8.50E-05	-0.001275	-8.08E-06	
283	-0.001196	-0.000101	.000000
-0.000189	-0.000318	-1.19E-05	
284	-0.001571	-0.000104	.000000
-0.000216	-0.000619	-8.21E-06	
285	-4.03E-05	-1.03E-05	.000000
-0.000119	-0.000724	-8.37E-06	
286	-0.001573	-0.000427	.000000
-4.81E-05	-0.000801	-9.72E-06	
287	-0.001221	-0.000321	.000000
-6.79E-05	-0.000686	-7.36E-06	
288	-0.001158	-0.000257	.000000
-8.50E-05	-0.001312	-1.03E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

COMB DESIGN ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000939	0.000215	6.40E-08
0.000101	0.000994	1.08E-05	
2	0.000938	0.000233	0.001580
0.000176	0.000905	9.17E-06	
3	0.000937	0.000262	0.003191
0.000273	0.000689	6.79E-06	
4	0.000936	0.000282	0.004536
0.000352	0.000420	3.72E-06	
5	0.000936	0.000284	0.005488
0.000391	0.000160	2.47E-06	
6	0.000937	0.000263	0.005911
0.000388	7.66E-06	4.26E-06	
7	0.000938	0.000222	0.005673
0.000341	0.000125	5.96E-06	
8	0.000940	0.000165	0.004668
0.000259	0.000289	7.75E-06	
9	0.000942	0.000112	0.002787
0.000168	0.000468	9.26E-06	
10	0.000945	8.63E-05	9.56E-08
9.57E-05	0.000653	9.48E-06	
11	0.000946	8.46E-05	0.002265
0.000115	0.000761	1.18E-05	
12	0.000948	0.000114	0.004991
0.000211	0.000804	1.25E-05	
13	0.000950	0.000158	0.007077
0.000306	0.000719	1.07E-05	
14	0.000951	0.000196	0.008510
0.000381	0.000517	7.78E-06	
15	0.000952	0.000219	0.009217
0.000433	0.000314	5.24E-06	
16	0.000953	0.000219	0.009473
0.000441	0.000188	4.13E-06	
17	0.000952	0.000196	0.008996
0.000405	0.000229	5.56E-06	
18	0.000952	0.000153	0.007678
0.000328	0.000360	7.29E-06	
19	0.000952	0.000101	0.005547
0.000230	0.000512	8.52E-06	
20	0.000951	7.25E-05	0.002574
0.000126	0.000681	1.03E-05	
21	0.000951	7.65E-05	1.34E-07
7.67E-05	0.000792	1.01E-05	
22	0.000949	9.32E-05	0.002485
0.000116	0.000884	1.26E-05	
23	0.000947	0.000147	0.005442
0.000219	0.000907	1.33E-05	
24	0.000945	0.000206	0.007671
0.000318	0.000805	1.15E-05	
25	0.000943	0.000253	0.009169
0.000399	0.000577	8.37E-06	
26	0.000941	0.000279	0.009839
0.000446	0.000349	5.71E-06	
27	0.000939	0.000280	0.009932
0.000447	0.000216	4.32E-06	
28	0.000937	0.000256	0.009306
0.000401	0.000262	5.69E-06	
29	0.000935	0.000210	0.007825
0.000320	0.000389	7.34E-06	
30	0.000932	0.000152	0.005577
0.000221	0.000527	8.59E-06	
31	0.000931	9.50E-05	0.002558
0.000116	0.000681	1.05E-05	
32	0.000930	7.62E-05	1.49E-07
7.55E-05	0.000782	1.09E-05	
33	0.000929	7.58E-05	0.002754
0.000126	0.000866	1.36E-05	
34	0.000927	0.000115	0.006059
0.000233	0.000881	1.43E-05	
35	0.000925	0.000178	0.008583
0.000332	0.000773	1.26E-05	
36	0.000923	0.000231	0.010309
0.000413	0.000614	9.35E-06	
37	0.000922	0.000264	0.011135
0.000452	0.000324	5.74E-06	
38	0.000921	0.000272	0.011394
0.000444	0.000215	4.36E-06	
39	0.000920	0.000255	0.010705
0.000393	0.000285	6.25E-06	
40	0.000919	0.000217	0.009023
0.000318	0.000435	8.10E-06	
41	0.000919	0.000169	0.006445
0.000222	0.000603	9.08E-06	
42	0.000920	0.000122	0.002962
0.000126	0.000785	1.09E-05	
43	0.000921	9.66E-05	9.23E-08
0.000109	0.000906	1.19E-05	
44	0.000922	8.92E-05	0.003134
0.000196	0.001028	1.73E-05	
45	0.000924	0.000133	0.005398
0.000314	0.001015	1.77E-05	
46	0.000926	0.000202	0.006805
0.000420	0.000866	1.56E-05	
47	0.000928	0.000269	0.007442
0.000493	0.000606	1.22E-05	
48	0.000929	0.000316	0.007390
0.000522	0.000350	8.58E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	0.000929	0.000339	0.006757
0.000507	0.000224	6.03E-06	
50	0.000928	0.000337	0.005655
0.000450	0.000256	7.02E-06	
51	0.000926	0.000313	0.004193
0.000354	0.000317	9.11E-06	
52	0.000925	0.000277	0.002473
0.000221	0.000361	1.07E-05	
53	0.000924	0.000246	0.000582
9.46E-05	0.000385	1.19E-05	
54	0.000924	0.000241	5.56E-08
7.37E-05	0.000387	1.20E-05	
55	0.000888	0.000137	4.03E-08
5.80E-05	0.000891	5.92E-06	
56	0.000887	0.000134	0.001492
0.000159	0.000888	4.36E-06	
57	0.000887	0.000134	0.003014
0.000320	0.000641	2.39E-06	
58	0.000887	0.000128	0.004283
0.000438	0.000407	1.60E-06	
59	0.000888	0.000118	0.005174
0.000498	0.000171	1.24E-06	
60	0.000889	0.000104	0.005558
0.000493	2.01E-05	1.42E-06	
61	0.000890	8.82E-05	0.005315
0.000429	0.000124	1.81E-06	
62	0.000892	7.35E-05	0.004357
0.000318	0.000277	3.16E-06	
63	0.000894	6.17E-05	0.002596
0.000183	0.000440	4.61E-06	
64	0.000895	5.70E-05	6.76E-08
6.78E-05	0.000609	3.20E-06	
65	0.000896	4.94E-05	0.002113
0.000118	0.000702	4.38E-06	
66	0.000897	4.17E-05	0.004670
0.000224	0.000739	4.11E-06	
67	0.000898	3.96E-05	0.006652
0.000366	0.000665	3.20E-06	
68	0.000899	4.32E-05	0.008031
0.000483	0.000487	2.53E-06	
69	0.000900	4.62E-05	0.008720
0.000553	0.000290	2.10E-06	
70	0.000900	4.59E-05	0.008975
0.000564	0.000175	1.76E-06	
71	0.000900	4.12E-05	0.008509
0.000514	0.000221	1.84E-06	
72	0.000900	3.74E-05	0.007242
0.000410	0.000346	2.48E-06	
73	0.000900	3.81E-05	0.005217
0.000273	0.000488	4.01E-06	
74	0.000899	4.24E-05	0.002416
0.000127	0.000644	5.11E-06	
75	0.000899	4.98E-05	1.01E-07
4.49E-05	0.000749	3.94E-06	
76	0.000899	5.33E-05	0.002329
0.000102	0.000827	5.11E-06	
77	0.000898	6.30E-05	0.005113
0.000247	0.000840	4.87E-06	
78	0.000898	7.94E-05	0.007234
0.000391	0.000741	3.93E-06	
79	0.000898	9.27E-05	0.008676
0.000508	0.000530	3.10E-06	
80	0.000898	0.000101	0.009330
0.000573	0.000311	2.40E-06	
81	0.000898	0.000103	0.009419
0.000575	0.000201	1.88E-06	
82	0.000898	9.83E-05	0.008807
0.000512	0.000253	1.75E-06	
83	0.000898	8.69E-05	0.007381
0.000397	0.000374	2.49E-06	
84	0.000898	7.05E-05	0.005241
0.000253	0.000502	4.05E-06	
85	0.000898	5.77E-05	0.002398
0.000106	0.000642	5.24E-06	
86	0.000898	5.19E-05	1.18E-07
4.20E-05	0.000738	4.49E-06	
87	0.000897	4.42E-05	0.002588
0.000124	0.000806	5.61E-06	
88	0.000897	4.19E-05	0.005708
0.000273	0.000808	5.60E-06	
89	0.000896	4.93E-05	0.008112
0.000414	0.000704	4.89E-06	
90	0.000896	6.60E-05	0.009774
0.000522	0.000494	4.01E-06	
91	0.000895	7.91E-05	0.010577
0.000577	0.000285	3.00E-06	
92	0.000895	8.77E-05	0.010826
0.000566	0.000196	2.16E-06	
93	0.000895	9.14E-05	0.010148
0.000492	0.000278	1.52E-06	
94	0.000895	8.97E-05	0.008524
0.000371	0.000419	1.57E-06	
95	0.000896	8.30E-05	0.006065
0.000231	0.000574	3.79E-06	
96	0.000897	7.49E-05	0.002778
0.000135	0.000740	5.73E-06	
97	0.000898	7.27E-05	5.58E-08
8.52E-05	0.000853	4.68E-06	
98	0.000900	6.27E-05	0.002934
0.000210	0.000953	6.51E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	0.000902	5.63E-05	0.005067
0.000372	0.000927	6.76E-06	
100	0.000901	5.94E-05	0.006416
0.000517	0.000782	6.67E-06	
101	0.000907	7.54E-05	0.007045
0.000620	0.000539	6.32E-06	
102	0.000909	9.71E-05	0.007020
0.000668	0.000306	5.72E-06	
103	0.000896	0.000114	0.006434
0.000655	0.000193	5.00E-06	
104	0.000913	0.000133	0.005394
0.000579	0.000245	4.05E-06	
105	0.000914	0.000146	0.004004
0.000443	0.000304	3.05E-06	
106	0.000914	0.000151	0.002363
0.000254	0.000346	3.11E-06	
107	0.000913	0.000146	0.000557
7.43E-05	0.000369	5.37E-06	
108	0.000912	0.000144	3.92E-08
6.85E-05	0.000371	5.73E-06	
109	0.000901	0.000114	5.98E-08
7.14E-05	0.000936	1.15E-05	
110	0.000901	0.000114	0.001486
0.000142	0.000865	1.08E-05	
111	0.000901	0.000143	0.003004
0.000246	0.000677	8.55E-06	
112	0.000901	0.000172	0.004275
0.000325	0.000427	5.18E-06	
113	0.000902	0.000183	0.005176
0.000366	0.000170	2.54E-06	
114	0.000903	0.000174	0.005578
0.000365	3.16E-05	2.92E-06	
115	0.000904	0.000148	0.005355
0.000327	0.000122	4.99E-06	
116	0.000906	0.000111	0.004407
0.000253	0.000273	6.50E-06	
117	0.000908	7.87E-05	0.002631
0.000159	0.000445	6.91E-06	
118	0.000909	4.99E-05	9.13E-08
8.06E-05	0.000619	7.73E-06	
119	0.000911	5.01E-05	0.002138
9.44E-05	0.000721	9.18E-06	
120	0.000913	6.89E-05	0.004717
0.000183	0.000771	1.01E-05	
121	0.000913	9.64E-05	0.006696
0.000269	0.000697	9.36E-06	
122	0.000913	0.000127	0.008058
0.000352	0.000511	7.40E-06	
123	0.000914	0.000148	0.008732
0.000403	0.000308	4.99E-06	
124	0.000914	0.000150	0.008981
0.000414	0.000184	4.29E-06	
125	0.000914	0.000132	0.008529
0.000384	0.000217	6.04E-06	
126	0.000913	9.90E-05	0.007279
0.000314	0.000343	7.77E-06	
127	0.000913	6.34E-05	0.005259
0.000217	0.000490	8.49E-06	
128	0.000912	4.57E-05	0.002439
0.000111	0.000652	8.49E-06	
129	0.000912	3.32E-05	1.24E-07
7.10E-05	0.000760	8.81E-06	
130	0.000912	5.40E-05	0.002354
9.04E-05	0.000839	9.84E-06	
131	0.000911	9.92E-05	0.005160
0.000189	0.000858	1.06E-05	
132	0.000911	0.000147	0.007277
0.000291	0.000762	9.61E-06	
133	0.000911	0.000185	0.008702
0.000373	0.000548	7.57E-06	
134	0.000911	0.000206	0.009339
0.000418	0.000330	5.18E-06	
135	0.000912	0.000206	0.009428
0.000419	0.000205	4.70E-06	
136	0.000912	0.000185	0.008833
0.000376	0.000253	6.54E-06	
137	0.000912	0.000146	0.007424
0.000295	0.000375	8.19E-06	
138	0.000912	9.72E-05	0.005288
0.000192	0.000507	8.55E-06	
139	0.000912	5.24E-05	0.002423
9.19E-05	0.000684	8.54E-06	
140	0.000912	4.06E-05	1.40E-07
7.10E-05	0.000750	8.88E-06	
141	0.000911	5.24E-05	0.002609
0.000110	0.000818	1.04E-05	
142	0.000910	7.55E-05	0.005744
0.000217	0.000823	1.12E-05	
143	0.000909	4.66E-06	0.008139
0.000317	0.000717	1.03E-05	
144	0.000908	0.000164	0.009779
0.000390	0.000499	7.80E-06	
145	0.000907	0.000190	0.010565
0.000423	0.000295	5.02E-06	
146	0.000907	0.000196	0.010805
0.000413	0.000197	4.66E-06	
147	0.000906	0.000181	0.010146
0.000360	0.000279	7.14E-06	
148	0.000906	0.000149	0.008546
0.000281	0.000422	8.88E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	0.000906	0.000108	0.006098
0.000133	0.000582	9.66E-06	
150	0.000907	7.19E-05	0.002799
0.000104	0.000753	8.73E-06	
151	0.000908	6.20E-05	9.29E-08
9.77E-05	0.000865	9.20E-06	
152	0.000910	7.78E-05	0.002964
0.000193	0.000962	1.15E-05	
153	0.000912	0.000108	0.005108
0.000311	0.000934	1.23E-05	
154	0.000914	0.000138	0.006441
0.000413	0.000782	1.14E-05	
155	0.000917	0.000185	0.007044
0.000479	0.000529	9.03E-06	
156	0.000919	0.000217	0.006994
0.000503	0.000299	6.64E-06	
157	0.000921	0.000230	0.006394
0.000484	0.000190	6.90E-06	
158	0.000922	0.000220	0.005349
0.000430	0.000248	9.84E-06	
159	0.000923	0.000190	0.003965
0.000336	0.000307	1.26E-05	
160	0.000923	0.000144	0.002337
0.000207	0.000347	1.44E-05	
161	0.000922	0.000125	0.000551
7.46E-05	0.000369	1.49E-05	
162	0.000922	0.000123	5.98E-08
5.15E-05	0.000370	1.49E-05	
163	0.000919	0.000162	0.000102
7.27E-05	0.001168	0.000145	
164	0.000911	0.000179	0.001525
0.000151	0.000989	0.000109	
165	0.000910	0.000196	0.003097
0.000337	0.000793	9.68E-05	
166	0.000910	0.000204	0.004410
0.000447	0.000541	7.68E-05	
167	0.000911	0.000200	0.005336
0.000496	0.000327	6.06E-05	
168	0.000912	0.000183	0.005746
0.000490	0.000239	5.60E-05	
169	0.000913	0.000154	0.005512
0.000426	0.000307	5.99E-05	
170	0.000915	0.000117	0.004535
0.000315	0.000416	6.80E-05	
171	0.000918	8.14E-05	0.002712
0.000177	0.000580	8.27E-05	
172	0.000920	5.95E-05	6.18E-05
9.36E-05	0.000695	8.99E-05	
173	0.000921	5.77E-05	0.002209
0.000142	0.000843	0.000102	
174	0.000922	7.86E-05	0.004855
0.000251	0.000899	0.000115	
175	0.000924	0.000104	0.006886
0.000366	0.000825	0.000109	
176	0.000924	0.000124	0.008287
0.000474	0.000638	9.25E-05	
177	0.000925	0.000136	0.008981
0.000536	0.000455	7.45E-05	
178	0.000925	0.000135	0.009238
0.000546	0.000368	6.39E-05	
179	0.000925	0.000121	0.008769
0.000503	0.000378	6.23E-05	
180	0.000926	0.000128	0.007481
0.000402	0.000479	7.00E-05	
181	0.000925	6.62E-05	0.005405
0.000262	0.000614	8.25E-05	
182	0.000924	4.36E-05	0.002514
0.000120	0.000722	8.89E-05	
183	0.000923	5.01E-05	6.12E-05
6.48E-05	0.000828	8.61E-05	
184	0.000922	6.67E-05	0.002425
0.000123	0.000960	0.000101	
185	0.000921	0.000104	0.005301
0.000252	0.001002	0.000109	
186	0.000920	0.000141	0.007475
0.000385	0.000913	0.000103	
187	0.000919	0.000172	0.008940
0.000497	0.000702	9.08E-05	
188	0.000919	0.000190	0.009599
0.000552	0.000494	7.41E-05	
189	0.000918	0.000192	0.009690
0.000553	0.000391	6.46E-05	
190	0.000917	0.000177	0.009074
0.000500	0.000393	6.95E-05	
191	0.000916	0.000148	0.007625
0.000389	0.000501	7.59E-05	
192	0.000915	0.000110	0.005433
0.000256	0.000627	8.55E-05	
193	0.000914	7.03E-05	0.002498
0.000124	0.000721	8.74E-05	
194	0.000913	5.10E-05	6.09E-05
6.28E-05	0.000817	8.88E-05	
195	0.000912	4.68E-05	0.002689
0.000120	0.000941	0.000104	
196	0.000911	7.41E-05	0.005907
0.000265	0.000977	0.000114	
197	0.000910	0.000114	0.008369
0.000406	0.000887	0.000106	
198	0.000909	0.000148	0.010059
0.000511	0.000678	9.00E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	0.000908	0.000171	0.010868
0.000557	0.000485	7.16E-05	
200	0.000907	0.000179	0.011127
0.000547	0.000391	6.34E-05	
201	0.000906	0.000172	0.010447
0.000485	0.000408	6.77E-05	
202	0.000906	0.000152	0.008800
0.000382	0.000544	7.94E-05	
203	0.000906	0.000123	0.006286
0.000271	0.000709	9.10E-05	
204	0.000907	9.28E-05	0.002900
0.000162	0.000821	9.73E-05	
205	0.000908	7.33E-05	8.72E-05
0.000105	0.000984	0.000111	
206	0.000910	6.10E-05	0.003053
0.000188	0.001115	0.000132	
207	0.000912	8.58E-05	0.005254
0.000361	0.001109	0.000131	
208	0.000915	0.000127	0.006629
0.000500	0.000974	0.000119	
209	0.000917	0.000167	0.007257
0.000593	0.000739	9.86E-05	
210	0.000920	0.000201	0.007215
0.000632	0.000524	7.64E-05	
211	0.000921	0.000223	0.006603
0.000618	0.000405	6.71E-05	
212	0.000922	0.000231	0.005531
0.000554	0.000385	6.65E-05	
213	0.000923	0.000225	0.004105
0.000439	0.000425	6.84E-05	
214	0.000923	0.000210	0.002425
0.000262	0.000453	7.11E-05	
215	0.000923	0.000189	0.000581
5.04E-05	0.000382	4.77E-05	
216	0.000923	0.000181	9.12E-05
5.85E-05	0.000377	5.86E-05	
217	0.000892	0.000122	0.000108
8.98E-05	0.001098	0.000147	
218	0.000892	0.000106	0.001487
0.000158	0.000965	0.000111	
219	0.000892	0.000107	0.003001
0.000347	0.000806	9.77E-05	
220	0.000892	0.000122	0.004266
0.000470	0.000580	7.78E-05	
221	0.000892	0.000126	0.005160
0.000526	0.000382	6.02E-05	
222	0.000893	0.000119	0.005555
0.000519	0.000247	5.55E-05	
223	0.000894	0.000101	0.005327
0.000450	0.000770	5.98E-05	
224	0.000896	7.76E-05	0.004380
0.000332	0.000385	6.77E-05	
225	0.000897	6.12E-05	0.002615
0.000182	0.000552	8.06E-05	
226	0.000899	4.94E-05	7.57E-05
0.000101	0.000676	8.50E-05	
227	0.000900	4.25E-05	0.002123
0.000145	0.000815	9.37E-05	
228	0.000901	4.09E-05	0.004688
0.000251	0.000880	0.000105	
229	0.000902	5.14E-05	0.006659
0.000368	0.000821	9.83E-05	
230	0.000903	6.94E-05	0.008021
0.000491	0.000649	8.36E-05	
231	0.000903	8.26E-05	0.008696
0.000561	0.000468	6.87E-05	
232	0.000903	8.41E-05	0.008949
0.000573	0.000357	6.36E-05	
233	0.000903	7.31E-05	0.008495
0.000525	0.000346	6.15E-05	
234	0.000903	5.15E-05	0.007246
0.000415	0.000456	6.91E-05	
235	0.000903	4.43E-05	0.005232
0.000265	0.000594	8.01E-05	
236	0.000902	4.29E-05	0.002426
0.000126	0.000703	8.45E-05	
237	0.000901	3.97E-05	7.42E-05
7.71E-05	0.000807	8.80E-05	
238	0.000901	4.56E-05	0.002339
0.000130	0.000934	0.000106	
239	0.000901	6.94E-05	0.005130
0.000252	0.000972	0.000118	
240	0.000900	0.000101	0.007241
0.000387	0.000882	0.000110	
241	0.000900	0.000127	0.008665
0.000509	0.000677	9.31E-05	
242	0.000900	0.000141	0.009305
0.000571	0.000475	7.58E-05	
243	0.000900	0.000142	0.009394
0.000572	0.000370	6.12E-05	
244	0.000899	0.000129	0.008796
0.000512	0.000374	6.52E-05	
245	0.000899	0.000104	0.007387
0.000393	0.000487	7.55E-05	
246	0.000899	7.21E-05	0.005260
0.000256	0.000611	8.40E-05	
247	0.000899	4.74E-05	0.002409
0.000130	0.000704	8.58E-05	
248	0.000898	4.44E-05	7.42E-05
7.59E-05	0.000796	8.59E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	0.000898	4.58E-05	0.002595
0.000126	0.000912	0.000100	
250	0.000897	4.53E-05	0.005717
0.000264	0.000935	0.000110	
251	0.000896	6.99E-05	0.008107
0.000418	0.000836	0.000103	
252	0.000895	9.88E-05	0.009746
0.000533	0.000622	8.84E-05	
253	0.000894	0.000117	0.010531
0.000583	0.000434	7.01E-05	
254	0.000894	0.000125	0.010777
0.000572	0.000362	6.03E-05	
255	0.000893	0.000120	0.010114
0.000500	0.000400	6.61E-05	
256	0.000893	0.000105	0.008512
0.000374	0.000533	7.84E-05	
257	0.000894	8.24E-05	0.006070
0.000265	0.000686	9.18E-05	
258	0.000894	6.80E-05	0.002783
0.000164	0.000803	9.65E-05	
259	0.000895	6.14E-05	8.59E-05
0.000114	0.000956	0.000109	
260	0.000897	6.92E-05	0.002950
0.000201	0.001072	0.000131	
261	0.000899	6.97E-05	0.005084
0.000380	0.001048	0.000129	
262	0.000901	7.63E-05	0.006417
0.000532	0.000897	0.000114	
263	0.000903	0.000105	0.007026
0.000637	0.000647	9.17E-05	
264	0.000905	0.000129	0.006984
0.000686	0.000425	7.24E-05	
265	0.000907	0.000142	0.006390
0.000674	0.000352	6.38E-05	
266	0.000907	0.000146	0.005349
0.000602	0.000371	6.49E-05	
267	0.000908	0.000136	0.003965

0.000181	0.000589	7.73E-06	
285	2.87E-06	9.71E-05	.000000
8.43E-05	0.000758	8.81E-06	
286	0.001789	0.000417	.000000
3.97E-05	0.000747	8.88E-06	
287	0.001024	0.000216	.000000
4.61E-05	0.000867	9.20E-06	
288	0.002128	0.000338	.000000
6.11E-05	0.000376	1.49E-05	

COMB DESIGN ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000896	-0.000120	-3.91E-07
-0.000199	-0.000353	-1.16E-05	
2	-0.000895	-0.000127	-0.004396
-0.000306	-0.000337	-1.03E-05	
3	-0.000894	-0.000146	-0.008511
-0.000405	-0.000294	-7.20E-06	
4	-0.000893	-0.000166	-0.011383
-0.000458	-0.000230	-4.65E-06	
5	-0.000893	-0.000173	-0.012703
-0.000460	-0.000193	-4.31E-06	
6	-0.000893	-0.000169	-0.012343
-0.000417	-0.000301	-7.05E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
7	-0.000894	-0.000153	-0.010434
-0.000333	-0.000539	-1.07E-05	
8	-0.000895	-0.000133	-0.007370
-0.000220	-0.000710	-1.33E-05	
9	-0.000897	-0.000119	-0.003677
-0.000107	-0.000764	-1.38E-05	
10	-0.000899	-0.000112	-8.94E-07
-7.90E-05	-0.000691	-1.04E-05	
11	-0.000901	-0.000109	-0.002503
-0.000152	-0.000605	-1.03E-05	
12	-0.000903	-0.000115	-0.006506
-0.000281	-0.000479	-8.60E-06	
13	-0.000904	-0.000133	-0.010408
-0.000396	-0.000372	-7.39E-06	
14	-0.000908	-0.000162	-0.013574
-0.000477	-0.000264	-5.66E-06	
15	-0.000910	-0.000179	-0.015392
-0.000511	-0.000213	-4.16E-06	
16	-0.000912	-0.000179	-0.015537
-0.000498	-0.000307	-5.12E-06	
17	-0.000912	-0.000163	-0.013970
-0.000440	-0.000505	-7.57E-06	
18	-0.000912	-0.000133	-0.010946
-0.000342	-0.000728	-1.07E-05	
19	-0.000911	-0.000105	-0.007028
-0.000218	-0.000943	-1.26E-05	
20	-0.000910	-9.03E-05	-0.002800
-9.14E-05	-0.000837	-1.21E-05	
21	-0.000909	-9.20E-05	-9.12E-07
-6.37E-05	-0.000758	-9.74E-06	
22	-0.000908	-9.65E-05	-0.002944
-0.000126	-0.000663	-1.00E-05	
23	-0.000907	-0.000115	-0.007477
-0.000257	-0.000519	-8.52E-06	
24	-0.000905	-0.000142	-0.011798
-0.000379	-0.000394	-7.37E-06	
25	-0.000904	-0.000167	-0.015274
-0.000473	-0.000271	-5.66E-06	
26	-0.000903	-0.000180	-0.017216
-0.000521	-0.000217	-4.32E-06	
27	-0.000901	-0.000182	-0.017278
-0.000521	-0.000337	-5.40E-06	
28	-0.000900	-0.000169	-0.015443
-0.000472	-0.000562	-8.01E-06	
29	-0.000899	-0.000145	-0.012026
-0.000377	-0.000800	-1.14E-05	
30	-0.000898	-0.000117	-0.007697
-0.000254	-0.000918	-1.36E-05	
31	-0.000897	-9.79E-05	-0.003069
-0.000121	-0.000913	-1.34E-05	
32	-0.000896	-9.25E-05	-9.09E-07
-6.09E-05	-0.000838	-1.15E-05	
33	-0.000895	-9.12E-05	-0.002892
-9.59E-05	-0.000739	-1.22E-05	
34	-0.000894	-0.000111	-0.007290
-0.000226	-0.000586	-1.08E-05	
35	-0.000893	-0.000142	-0.011419
-0.000351	-0.000456	-8.42E-06	
36	-0.000892	-0.000175	-0.014680
-0.000452	-0.000319	-6.687E-06	
37	-0.000891	-0.000196	-0.016418
-0.000511	-0.000244	-5.19E-06	
38	-0.000890	-0.000203	-0.016328
-0.000523	-0.000344	-5.41E-06	
39	-0.000890	-0.000195	-0.014432
-0.000486	-0.000547	-7.20E-06	
40	-0.000876	-0.000176	-0.011082
-0.000400	-0.000761	-9.74E-06	
41	-0.000892	-0.000150	-0.006961
-0.000282	-0.000852	-1.17E-05	
42	-0.000893	-0.000139	-0.002704
-0.000152	-0.000816	-1.12E-05	
43	-0.000893	-0.000140	-9.48E-07
-8.50E-05	-0.000714	-9.13E-06	
44	-0.000894	-0.000130	-0.004862
-0.000129	-0.000542	-9.97E-06	
45	-0.000895	-0.000137	-0.009973
-0.000267	-0.000369	-7.96E-06	
46	-0.000895	-0.000167	-0.014608
-0.000407	-0.000206	-6.55E-06	
47	-0.000895	-0.000190	-0.018133
-0.000523	-6.21E-05	-5.47E-06	
48	-0.000895	-0.000200	-0.020032
-0.000601	-4.92E-05	-3.98E-06	
49	-0.000894	-0.000194	-0.020005
-0.000638	-0.000269	-3.07E-06	
50	-0.000894	-0.000173	-0.017981
-0.000624	-0.000592	-4.99E-06	
51	-0.000893	-0.000138	-0.014109
-0.000558	-0.000913	-7.55E-06	
52	-0.000892	-9.69E-05	-0.008689
-0.000438	-0.001191	-9.41E-06	
53	-0.000892	-8.18E-05	-0.002096
-0.000270	-0.001374	-1.01E-05	
54	-0.000893	-8.14E-05	-4.23E-07
-0.000228	-0.001389	-1.01E-05	
55	-0.000851	-0.000103	-4.21E-07
-0.000136	-0.000337	-5.63E-06	
56	-0.000851	-9.15E-05	-0.003894
-0.000288	-0.000322	-4.20E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000851	-8.61E-05	-0.007555
-0.000449	-0.000281	-2.59E-06	
58	-0.000851	-8.57E-05	-0.010134
-0.000549	-0.000220	-2.52E-06	
59	-0.000851	-8.48E-05	-0.011352
-0.000576	-0.000166	-2.89E-06	
60	-0.000851	-8.27E-05	-0.011080
-0.000533	-0.000260	-3.50E-06	
61	-0.000852	-7.95E-05	-0.009418
-0.000429	-0.000474	-4.12E-06	
62	-0.000853	-7.50E-05	-0.006700
-0.000285	-0.000636	-4.94E-06	
63	-0.000854	-6.93E-05	-0.003374
-0.000130	-0.000697	-5.34E-06	
64	-0.000855	-6.90E-05	-9.26E-07
-6.02E-05	-0.000643	-4.10E-06	
65	-0.000856	-6.36E-05	-0.002300
-0.000153	-0.000567	-5.06E-06	
66	-0.000857	-5.64E-05	-0.005940
-0.000316	-0.000455	-4.00E-06	
67	-0.000858	-5.26E-05	-0.009466
-0.000469	-0.000358	-2.63E-06	
68	-0.000859	-5.12E-05	-0.012329
-0.000585	-0.000257	-2.03E-06	
69	-0.000859	-4.99E-05	-0.013983
-0.000642	-0.000195	-4.37E-06	
70	-0.000859	-4.87E-05	-0.014134
-0.000633	-0.000269	-1.86E-06	
71	-0.000859	-4.62E-05	-0.012740
-0.000557	-0.000451	-2.33E-06	
72	-0.000859	-4.31E-05	-0.010022
-0.000428	-0.000658	-3.04E-06	
73	-0.000858	-4.37E-05	-0.006477
-0.000269	-0.000770	-4.04E-06	
74	-0.000858	-4.82E-05	-0.002605
-0.000107	-0.000777	-4.45E-06	
75	-0.000858	-5.38E-05	-9.46E-07
-4.15E-05	-0.000715	-3.45E-06	
76	-0.000857	-5.51E-05	-0.002754
-0.000136	-0.000626	-2.84E-06	
77	-0.000857	-6.45E-05	-0.006942
-0.000302	-0.000494	-3.95E-06	
78	-0.000856	-7.38E-05	-0.010901
-0.000461	-0.000378	-2.65E-06	
79	-0.000856	-8.03E-05	-0.014077
-0.000588	-0.000262	-2.10E-06	
80	-0.000855	-8.30E-05	-0.015852
-0.000658	-0.000202	-1.93E-06	
81	-0.000856	-8.49E-05	-0.015915
-0.000658	-0.000297	-2.09E-06	
82	-0.000856	-8.35E-05	-0.014247
-0.000588	-0.000513	-2.55E-06	
83	-0.000856	-7.77E-05	-0.011130
-0.000462	-0.000735	-3.65E-06	
84	-0.000856	-6.76E-05	-0.007163
-0.000302	-0.000850	-5.06E-06	
85	-0.000855	-5.81E-05	-0.002879
-0.000136	-0.000857	-5.84E-06	
86	-0.000855	-5.30E-05	-9.44E-07
-4.05E-05	-0.000852	-5.20E-06	
87	-0.000855	-4.65E-05	-0.002695
-0.000110	-0.000700	-6.61E-06	
88	-0.000854	-4.61E-05	-0.006737
-0.000276	-0.000560	-6.04E-06	
89	-0.000853	-6.00E-05	-0.010495
-0.000437	-0.000440	-4.97E-06	
90	-0.000853	-7.76E-05	-0.013448
-0.000570	-0.000309	-4.33E-06	
91	-0.000852	-9.41E-05	-0.015015
-0.000648	-0.000231	-3.55E-06	
92	-0.000852	-0.000108	-0.014925
-0.000657	-0.000314	-2.78E-06	
93	-0.000852	-0.000116	-0.013199
-0.000596	-0.000514	-3.47E-06	
94	-0.000852	-0.000118	-0.010158
-0.000475	-0.000706	-2.14E-06	
95	-0.000853	-0.000113	-0.006411
-0.000319	-0.000787	-3.35E-06	
96	-0.000853	-0.000104	-0.002510
-0.000155	-0.000760	-2.15E-06	
97	-0.000854	-9.34E-05	-9.64E-07
-6.41E-05	-0.000672	-2.74E-06	
98	-0.000855	-7.11E-05	-0.004532
-0.000139	-0.000512	-4.30E-06	
99	-0.000855	-5.69E-05	-0.009221
-0.000325	-0.000354	-3.22E-06	
100	-0.000856	-4.47E-05	-0.013433
-0.000507	-0.000203	-2.38E-06	
101	-0.000857	-3.73E-05	-0.016613
-0.000657	-6.52E-05	-2.33E-06	
102	-0.000858	-3.43E-05	-0.018297
-0.000754	-6.85E-05	-2.23E-06	
103	-0.000858	-3.36E-05	-0.018220
-0.000787	-0.000276	-2.15E-06	
104	-0.000859	-3.70E-05	-0.016327
-0.000748	-0.000576	-1.92E-06	
105	-0.000859	-4.01E-05	-0.012775
-0.000636	-0.000867	-2.33E-06	
106	-0.000859	-4.56E-05	-0.007850
-0.000453	-0.001103	-3.66E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	-0.000858	-5.71E-05	-0.001894
-0.000230	-0.001252	-7.46E-06	
108	-0.000858	-6.14E-05	-4.44E-07
-0.000186	-0.001265	-8.08E-06	
109	-0.000865	-0.000100	-3.63E-07
-0.000223	-0.000337	-1.19E-05	
110	-0.000864	-9.78E-05	-0.004055
-0.000296	-0.000324	-1.14E-05	
111	-0.000864	-0.000101	-0.007858
-0.000398	-0.000285	-9.72E-06	
112	-0.000864	-0.000117	-0.010514
-0.000456	-0.000224	-6.90E-06	
113	-0.000865	-0.000132	-0.011739
-0.000464	-0.000168	-4.84E-06	
114	-0.000865	-0.000138	-0.011412
-0.000423	-0.000264	-4.81E-06	
115	-0.000866	-0.000130	-0.009649
-0.000342	-0.000475	-7.64E-06	
116	-0.000867	-0.000110	-0.006817
-0.000240	-0.000645	-9.44E-06	
117	-0.000868	-8.84E-05	-0.003402
-0.000150	-0.000707	-9.46E-06	
118	-0.000870	-6.61E-05	-8.57E-07
-0.000120	-0.000655	-8.21E-06	
119	-0.000871	-6.87E-05	-0.002324
-0.000170	-0.000580	-8.13E-06	
120	-0.000872	-7.34E-05	-0.006042
-0.000276	-0.000463	-8.64E-06	
121	-0.000873	-0.000119	-0.009668
-0.000391	-0.000361	-8.23E-06	
122	-0.000874	-0.000142	-0.012611
-0.000474	-0.000258	-6.56E-06	
123	-0.000874	-0.000157	-0.014302
-0.000512	-0.000196	-4.94E-06	
124	-0.000874	-0.000158	-0.014437
-0.000501	-0.000278	-4.63E-06	
125	-0.000873	-0.000147	-0.012981
-0.000443	-0.000456	-6.75E-06	
126	-0.000873	-0.000123	-0.010171
-0.000346	-0.000672	-8.79E-06	
127	-0.000872	-9.13E-05	-0.006541
-0.000237	-0.000785	-9.91E-06	
128	-0.000871	-5.96E-05	-0.002627
-0.000135	-0.000788	-9.34E-06	
129	-0.000871	-4.99E-05	-8.76E-07
-0.000106	-0.000726	-8.37E-06	
130	-0.000871	-6.74E-05	-0.002776
-0.000151	-0.000637	-8.19E-06	
131	-0.000870	-9.34E-05	-0.007004
-0.000260	-0.000500	-8.48E-06	
132	-0.000870	-0.000126	-0.011015
-0.000379	-0.000380	-7.88E-06	
133	-0.000870	-0.000151	-0.014240
-0.000472	-0.000262	-6.23E-06	
134	-0.000870	-0.000163	-0.016043
-0.000523	-0.000206	-4.51E-06	
135	-0.000870	-0.000163	-0.016104
-0.000522	-0.000317	-5.10E-06	
136	-0.000870	-0.000149	-0.014407
-0.000471	-0.000531	-7.44E-06	
137	-0.000870	-0.000127	-0.011240
-0.000377	-0.000756	-9.77E-06	
138	-0.000870	-8.97E-05	-0.007219
-0.000259	-0.000867	-1.10E-05	
139	-0.000870	-6.32E-05	-0.002898
-0.000150	-0.000868	-1.06E-05	
140	-0.000869	-5.42E-05	-8.74E-07
-0.000104	-0.000803	-9.72E-06	
141	-0.000869	-6.68E-05	-0.002719
-0.000138	-0.000708	-9.64E-06	
142	-0.000868	-0.000101	-0.006806
-0.000243	-0.000561	-9.00E-06	
143	-0.000867	-0.000135	-0.010623
-0.000354	-0.000436	-8.10E-06	
144	-0.000866	-0.000163	-0.013653
-0.000453	-0.000304	-6.64E-06	
145	-0.000865	-0.000178	-0.015271
-0.000514	-0.000236	-4.94E-06	
146	-0.000864	-0.000180	-0.015187
-0.000524	-0.000864	-4.90E-06	
147	-0.000864	-0.000167	-0.013422
-0.000483	-0.000538	-6.74E-06	
148	-0.000864	-0.000149	-0.010305
-0.000396	-0.000736	-8.42E-06	
149	-0.000864	-0.000133	-0.006476
-0.000279	-0.000815	-9.41E-06	
150	-0.000864	-0.000125	-0.002531
-0.000171	-0.000774	-8.67E-06	
151	-0.000865	-9.94E-05	-9.12E-07
-0.000124	-0.000682	-7.36E-06	
152	-0.000865	-0.000110	-0.004563
-0.000170	-0.000517	-7.67E-06	
153	-0.000866	-0.000132	-0.009302
-0.000280	-0.000350	-6.88E-06	
154	-0.000867	-0.000152	-0.013576
-0.000415	-0.000199	-6.98E-06	
155	-0.000868	-0.000168	-0.016809
-0.000529	-7.08E-05	-5.15E-06	
156	-0.000868	-0.000170	-0.018529
-0.000608	-3.55E-05	-3.65E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000869	-0.000152	-0.018488
-0.000641	-0.000283	-3.43E-06	
158	-0.000869	-0.000115	-0.016611
-0.000623	-0.000599	-5.53E-06	
159	-0.000869	-7.86E-05	-0.013030
-0.000553	-0.000901	-9.29E-06	
160	-0.000869	-6.13E-05	-0.008021
-0.000427	-0.001149	-1.23E-05	
161	-0.000869	-6.56E-05	-0.001936
-0.000269	-0.001298	-1.38E-05	
162	-0.000868	-6.73E-05	-3.94E-07
-0.000244	-0.001307	-1.39E-05	
163	-0.000874	-8.87E-05	-0.000146
-0.000197	-0.000371	-6.50E-05	
164	-0.000873	-0.000100	-0.004079
-0.000304	-0.000467	-6.54E-05	
165	-0.000873	-0.000117	-0.007939
-0.000506	-0.000415	-6.51E-05	
166	-0.000872	-0.000129	-0.010668
-0.000610	-0.000377	-6.32E-05	
167	-0.000872	-0.000132	-0.011946
-0.000627	-0.000390	-6.49E-05	
168	-0.000872	-0.000128	-0.011648
-0.000571	-0.000486	-7.52E-05	
169	-0.000873	-0.000116	-0.009877
-0.000455	-0.000673	-9.08E-05	
170	-0.000874	-9.92E-05	-0.007007
-0.000299	-0.000826	-0.000102	
171	-0.000875	-8.28E-05	-0.003520
-0.000167	-0.000870	-0.000108	
172	-0.000877	-7.20E-05	-9.00E-05
-9.21E-05	-0.000776	-9.46E-05	
173	-0.000878	-7.33E-05	-0.002397
-0.000148	-0.000850	-8.53E-05	
174	-0.000880	-8.04E-05	-0.006206
-0.000327	-0.000581	-8.56E-05	
175	-0.000882	-9.34E-05	-0.009903
-0.000495	-0.000484	-7.78E-05	
176	-0.000883	-0.000108	-0.012914
-0.000618	-0.000391	-7.15E-05	
177	-0.000884	-0.000117	-0.014655
-0.000673	-0.000390	-6.54E-05	
178	-0.000885	-0.000117	-0.014807
-0.000659	-0.000475	-7.00E-05	
179	-0.000885	-0.000109	-0.013331
-0.000580	-0.000640	-8.33E-05	
180	-0.000884	-9.28E-05	-0.010468
-0.000440	-0.000844	-9.55E-05	
181	-0.000883	-7.19E-05	-0.006752
-0.000264	-0.000942	-0.000103	
182	-0.000882	-5.33E-05	-0.002708
-0.000125	-0.000914	-9.73E-05	
183	-0.000882	-5.27E-05	-8.72E-05
-7.20E-05	-0.000794	-8.66E-05	
184	-0.000881	-6.20E-05	-0.002859
-0.000134	-0.000705	-8.75E-05	
185	-0.000881	-8.41E-05	-0.007224
-0.000299	-0.000620	-8.32E-05	
186	-0.000880	-0.000105	-0.011360
-0.000475	-0.000505	-7.25E-05	
187	-0.000879	-0.000125	-0.014690
-0.000610	-0.000400	-6.49E-05	
188	-0.000879	-0.000130	-0.016556
-0.000676	-0.000392	-6.50E-05	
189	-0.000878	-0.000132	-0.016620
-0.000675	-0.000482	-7.40E-05	
190	-0.000878	-0.000125	-0.014865
-0.000608	-0.000688	-8.84E-05	
191	-0.000877	-0.000109	-0.011595
-0.000473	-0.000910	-0.000112	
192	-0.000876	-8.79E-05	-0.007450
-0.000297	-0.001013	-0.000121	
193	-0.000876	-6.43E-05	-0.002988
-0.000134	-0.000990	-0.000111	
194	-0.000876	-5.32E-05	-8.70E-05
-7.01E-05	-0.000872	-9.41E-05	
195	-0.000874	-5.28E-05	-0.002800
-0.000125	-0.000779	-9.19E-05	
196	-0.000873	-7.13E-05	-0.007019
-0.000270	-0.000685	-8.77E-05	
197	-0.000872	-0.000100	-0.010952
-0.000450	-0.000565	-7.86E-05	
198	-0.000871	-0.000125	-0.014056
-0.000593	-0.000445	-6.99E-05	
199	-0.000870	-0.000143	-0.015709
-0.000673	-0.000407	-6.43E-05	
200	-0.000870	-0.000152	-0.015616
-0.000685	-0.000384	-6.04E-05	
201	-0.000870	-0.000151	-0.013801
-0.000628	-0.000667	-8.59E-05	
202	-0.000870	-0.000145	-0.010608
-0.000500	-0.000866	-0.000102	
203	-0.000871	-0.000130	-0.006684
-0.000328	-0.000945	-0.000110	
204	-0.000872	-0.000117	-0.002612
-0.000149	-0.000896	-9.92E-05	
205	-0.000872	-9.81E-05	-0.000105
-9.13E-05	-0.000758	-9.03E-05	
206	-0.000873	-9.09E-05	-0.004705
-0.000173	-0.000644	-8.51E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000874	-9.90E-05	-0.009607
-0.000332	-0.000482	-7.17E-05	
208	-0.000875	-0.000112	-0.014023
-0.000524	-0.000348	-5.98E-05	
209	-0.000875	-0.000120	-0.017374
-0.000683	-0.000261	-5.30E-05	
210	-0.000876	-0.000121	-0.019158
-0.000788	-0.000258	-5.31E-05	
211	-0.000876	-0.000115	-0.019093
-0.000830	-0.000396	-6.78E-05	
212	-0.000876	-0.000104	-0.017117
-0.000800	-0.000703	-9.32E-05	
213	-0.000876	-8.63E-05	-0.013392
-0.000689	-0.001011	-0.000121	
214	-0.000876	-6.52E-05	-0.008227
-0.000490	-0.001262	-0.000147	
215	-0.000877	-5.34E-05	-0.001982
-0.000203	-0.001358	-0.000109	
216	-0.000877	-5.25E-05	-0.000128
-0.000221	-0.001314	-0.000131	
217	-0.000854	-9.32E-05	-0.000194
-0.000214	-0.000357	-7.70E-05	
218	-0.000854	-8.66E-05	-0.003961
-0.000275	-0.000446	-6.68E-05	
219	-0.000854	-8.69E-05	-0.007675
-0.000472	-0.000400	-6.58E-05	
220	-0.000853	-8.95E-05	-0.010304
-0.000564	-0.000365	-6.33E-05	
221	-0.000854	-9.17E-05	-0.011538
-0.000577	-0.000341	-6.33E-05	
222	-0.000854	-9.33E-05	-0.011253
-0.000527	-0.000395	-7.32E-05	
223	-0.000854	-9.06E-05	-0.009547
-0.000422	-0.000595	-8.81E-05	
224	-0.000855	-8.35E-05	-0.006780
-0.000277	-0.000761	-9.77E-05	
225	-0.000856	-7.35E-05	-0.003416
-0.000159	-0.000819	-0.000101	
226	-0.000858	-6.47E-05	-0.000142
-8.49E-05	-0.000751	-8.83E-05	
227	-0.000859	-5.83E-05	-0.002332
-0.000133	-0.000634	-8.19E-05	
228	-0.000860	-5.99E-05	-0.006015
-0.000310	-0.000569	-8.31E-05	
229	-0.000861	-7.15E-05	-0.009593
-0.000469	-0.000474	-7.61E-05	
230	-0.000862	-8.38E-05	-0.012506
-0.000579	-0.000384	-6.74E-05	
231	-0.000863	-9.20E-05	-0.014191
-0.000626	-0.000360	-6.21E-05	
232	-0.000863	-9.24E-05	-0.014340
-0.000614	-0.000417	-7.21E-05	
233	-0.000863	-8.47E-05	-0.012913
-0.000545	-0.000580	-8.66E-05	
234	-0.000862	-7.04E-05	-0.010144
-0.000420	-0.000789	-0.000102	
235	-0.000862	-5.37E-05	-0.006549
-0.000257	-0.000897	-0.000111	
236	-0.000861	-4.17E-05	-0.002635
-0.000117	-0.000882	-0.000102	
237	-0.000861	-4.83E-05	-0.000136
-6.54E-05	-0.000773	-8.54E-05	
238	-0.000860	-5.95E-05	-0.002782
-0.000121	-0.000688	-8.32E-05	
239	-0.000860	-7.65E-05	-0.007009
-0.000292	-0.000604	-8.03E-05	
240	-0.000860	-8.83E-05	-0.011015
-0.000457	-0.000492	-7.66E-05	
241	-0.000859	-9.95E-05	-0.014239
-0.000579	-0.000383	-6.36E-05	
242	-0.000859	-0.000107	-0.016047
-0.000638	-0.000370	-6.47E-05	
243	-0.000859	-0.000107	-0.016108
-0.000638	-0.000461	-7.68E-05	
244	-0.000859	-0.000100	-0.014407
-0.000578	-0.000660	-8.48E-05	
245	-0.000859	-9.01E-05	-0.011241
-0.000457	-0.000876	-0.000104	
246	-0.000859	-7.76E-05	-0.007228
-0.000292	-0.000981	-0.000114	
247	-0.000859	-5.81E-05	-0.002907
-0.000122	-0.000963	-0.000106	
248	-0.000859	-4.56E-05	-0.000136
-6.41E-05	-0.000849	-9.21E-05	
249	-0.000858	-4.43E-05	-0.002725
-0.000120	-0.000759	-9.31E-05	
250	-0.000858	-6.11E-05	-0.006809
-0.000263	-0.000665	-9.06E-05	
251	-0.000857	-8.59E-05	-0.010618
-0.000430	-0.000547	-7.99E-05	
252	-0.000856	-0.000107	-0.013623
-0.000557	-0.000421	-7.04E-05	
253	-0.000855	-0.000120	-0.015224
-0.000627	-0.000391	-6.41E-05	
254	-0.000855	-0.000126	-0.015133
-0.000638	-0.000485	-6.72E-05	
255	-0.000855	-0.000128	-0.013375
-0.000590	-0.000673	-8.42E-05	
256	-0.000855	-0.000129	-0.010281
-0.000476	-0.000857	-0.000102	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000855	-0.000121	-0.006482
-0.000313	-0.000922	-0.000110	
258	-0.000856	-0.000104	-0.002538
-0.000138	-0.000871	-9.83E-05	
259	-0.000856	-8.90E-05	-0.000166
-8.57E-05	-0.000738	-8.77E-05	
260	-0.000857	-8.12E-05	-0.004570
-0.000163	-0.000621	-8.27E-05	
261	-0.000858	-7.78E-05	-0.009300
-0.000308	-0.000457	-6.94E-05	
262	-0.000859	-7.98E-05	-0.013559
-0.000486	-0.000310	-5.86E-05	
263	-0.000859	-8.21E-05	-0.016788
-0.000629	-0.000231	-5.10E-05	
264	-0.000860	-7.78E-05	-0.018504
-0.000724	-0.000295	-5.21E-05	
265	-0.000860	-6.58E-05	-0.018434
-0.000764	-0.000470	-6.68E-05	
266	-0.000860	-4.79E-05	-0.016518
-0.000744	-0.000743	-9.25E-05	
267	-0.000860	-4.68E-05	-0.012918
-0.000650	-0.001018	-0.000121	
268	-0.000860	-4.91E-05	-0.007932
-0.000468	-0.001238	-0.000148	
269	-0.000859	-5.50E-05	-0.001907
-0.000162	-0.001323	-0.000109	
270	-0.000859	-5.75E-05	-0.000167
-0.000213	-0.001277	-0.000131	
271

288	-0.001158	-0.000257	.000000
-8.50E-05	-0.001312	-1.39E-05	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

COMB DB-G1-1 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	78.260557	540.310213
.000000	.000000	.000000	
272	.000000	49.134067	590.904144
.000000	.000000	.000000	
273	31.935494	48.598263	591.440636
.000000	.000000	.000000	
274	.000000	50.275576	591.518792
.000000	.000000	.000000	
275	.000000	64.924111	592.537758
.000000	.000000	.000000	
276	.000000	100.769043	546.227832
.000000	.000000	.000000	
277	.000000	12.387555	49.133360
.000000	.000000	.000000	
278	.000000	9.656985	80.712857
.000000	.000000	.000000	
279	11.328376	7.543425	81.686479
.000000	.000000	.000000	
280	.000000	9.807340	81.655826
.000000	.000000	.000000	
281	.000000	22.369982	95.564735
.000000	.000000	.000000	
282	.000000	16.637762	61.626413
.000000	.000000	.000000	
283	.000000	.000000	6.539360
.000000	.000000	.000000	
284	.000000	.000000	8.639793
.000000	.000000	.000000	
285	21.258116	.000000	10.015684
.000000	.000000	.000000	
286	.000000	.000000	7.601191
.000000	.000000	.000000	
287	.000000	.000000	11.177735
.000000	.000000	.000000	
288	.000000	.000000	3.154331
.000000	.000000	.000000	

COMB DB-G1-1 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-13.543202	-36.976435
.000000	.000000	.000000	
272	.000000	-9.786450	-44.483513
.000000	.000000	.000000	
273	-31.742047	-7.381242	-46.029558
.000000	.000000	.000000	
274	.000000	-10.016137	-50.427432
.000000	.000000	.000000	
275	.000000	-22.327750	-43.713583
.000000	.000000	.000000	
276	.000000	-17.331064	-30.410361
.000000	.000000	.000000	
277	.000000	-77.485503	-23.133723
.000000	.000000	.000000	
278	.000000	-48.621242	-38.676319
.000000	.000000	.000000	
279	-11.329394	-48.347554	-39.534594
.000000	.000000	.000000	
280	.000000	-49.740521	-39.647189
.000000	.000000	.000000	
281	.000000	-63.352619	-38.793035
.000000	.000000	.000000	
282	.000000	-99.708007	-22.640802
.000000	.000000	.000000	
283	.000000	.000000	-40.226284
.000000	.000000	.000000	
284	.000000	.000000	-31.235625
.000000	.000000	.000000	
285	-21.442244	.000000	-30.283939
.000000	.000000	.000000	
286	.000000	.000000	-30.607474
.000000	.000000	.000000	
287	.000000	.000000	-37.835789
.000000	.000000	.000000	
288	.000000	.000000	-52.514565
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	82.298712	728.428434
.000000	.000000	.000000	
272	.000000	46.559519	797.056977
.000000	.000000	.000000	
273	45.536708	43.670190	796.399381
.000000	.000000	.000000	
274	.000000	48.763444	796.597681
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
275	.000000	72.753418	805.341957
.000000	.000000	.000000	
276	.000000	115.103381	736.085310
.000000	.000000	.000000	
277	.000000	103.502334	302.773983
.000000	.000000	.000000	
278	.000000	125.191805	361.632606
.000000	.000000	.000000	
279	17.931058	123.074516	363.135132
.000000	.000000	.000000	
280	.000000	125.669500	363.106441
.000000	.000000	.000000	
281	.000000	139.237584	379.275706
.000000	.000000	.000000	
282	.000000	112.865952	318.765486
.000000	.000000	.000000	
283	.000000	.000000	13.931230
.000000	.000000	.000000	
284	.000000	.000000	22.186693
.000000	.000000	.000000	
285	34.614641	.000000	24.789507
.000000	.000000	.000000	
286	.000000	.000000	22.418010
.000000	.000000	.000000	
287	.000000	.000000	32.983073
.000000	.000000	.000000	
288	.000000	.000000	7.793615
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-104.910119	-61.936226
.000000	.000000	.000000	
272	.000000	-125.037435	-75.370057
.000000	.000000	.000000	
273	-46.030881	-122.544972	-77.970412
.000000	.000000	.000000	
274	.000000	-125.579951	-85.620628
.000000	.000000	.000000	
275	.000000	-139.449616	-73.754762
.000000	.000000	.000000	
276	.000000	-113.554633	-51.169467
.000000	.000000	.000000	
277	.000000	-81.093766	-38.759597
.000000	.000000	.000000	
278	.000000	-46.105003	-58.254358
.000000	.000000	.000000	
279	-17.977771	-43.908990	-59.049802
.000000	.000000	.000000	
280	.000000	-47.896628	-66.175389
.000000	.000000	.000000	
281	.000000	-70.980041	-49.757440
.000000	.000000	.000000	
282	.000000	-113.390606	-36.157323
.000000	.000000	.000000	
283	.000000	.000000	-71.801368
.000000	.000000	.000000	
284	.000000	.000000	-62.482547
.000000	.000000	.000000	
285	-34.873386	.000000	-61.663158
.000000	.000000	.000000	
286	.000000	.000000	-62.148867
.000000	.000000	.000000	
287	.000000	.000000	-71.194112
.000000	.000000	.000000	
288	.000000	.000000	-84.891067
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	75.483474	682.779702
.000000	.000000	.000000	
272	.000000	41.661490	765.423896
.000000	.000000	.000000	
273	45.213761	39.031217	763.757144
.000000	.000000	.000000	
274	.000000	43.538333	764.611610
.000000	.000000	.000000	
275	.000000	70.773142	788.908307
.000000	.000000	.000000	
276	.000000	106.627671	695.765940
.000000	.000000	.000000	
277	.000000	77.918215	675.893026
.000000	.000000	.000000	
278	.000000	91.103596	790.772532
.000000	.000000	.000000	
279	29.519286	87.123609	792.342772
.000000	.000000	.000000	
280	.000000	90.471129	792.340620
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
281	.000000	113.884491	806.648793
.000000	.000000	.000000	
282	.000000	86.945704	691.293672
.000000	.000000	.000000	
283	.000000	.000000	65.536967
.000000	.000000	.000000	
284	.000000	.000000	102.606856
.000000	.000000	.000000	
285	36.162313	.000000	105.380365
.000000	.000000	.000000	
286	.000000	.000000	103.463173
.000000	.000000	.000000	
287	.000000	.000000	129.315637
.000000	.000000	.000000	
288	.000000	.000000	65.774580
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-79.089426	-72.136918
.000000	.000000	.000000	
272	.000000	-91.301251	-89.702700
.000000	.000000	.000000	
273	-45.364168	-87.462407	-92.924500
.000000	.000000	.000000	
274	.000000	-90.769314	-103.015059
.000000	.000000	.000000	
275	.000000	-116.017183	-87.136481
.000000	.000000	.000000	
276	.000000	-87.166156	-59.216684
.000000	.000000	.000000	
277	.000000	-74.498017	-51.614268
.000000	.000000	.000000	
278	.000000	-41.226786	-76.841065
.000000	.000000	.000000	
279	-29.566214	-39.222240	-78.374249
.000000	.000000	.000000	
280	.000000	-42.862825	-87.753112
.000000	.000000	.000000	
281	.000000	-69.000000	-66.581074
.000000	.000000	.000000	
282	.000000	-105.196958	-47.291795
.000000	.000000	.000000	
283	.000000	.000000	-75.813825
.000000	.000000	.000000	
284	.000000	.000000	-76.659780
.000000	.000000	.000000	
285	-36.411578	.000000	-76.760575
.000000	.000000	.000000	
286	.000000	.000000	-81.262457
.000000	.000000	.000000	
287	.000000	.000000	-83.337267
.000000	.000000	.000000	
288	.000000	.000000	-82.786869
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	112.264942	573.009202
.000000	.000000	.000000	
272	.000000	96.609719	643.015722
.000000	.000000	.000000	
273	49.112818	95.531001	642.554801
.000000	.000000	.000000	
274	.000000	99.153967	642.458240
.000000	.000000	.000000	
275	.000000	120.301879	664.780742
.000000	.000000	.000000	
276	.000000	141.201561	582.850083
.000000	.000000	.000000	
277	.000000	71.060539	730.484790
.000000	.000000	.000000	
278	.000000	84.568474	846.110924
.000000	.000000	.000000	
279	28.020514	80.014638	848.889252
.000000	.000000	.000000	
280	.000000	84.562872	849.148789
.000000	.000000	.000000	
281	.000000	108.153940	861.496172
.000000	.000000	.000000	
282	.000000	85.080410	749.659824
.000000	.000000	.000000	
283	.000000	.000000	264.659594
.000000	.000000	.000000	
284	.000000	.000000	315.573706
.000000	.000000	.000000	
285	40.773596	.000000	316.480761
.000000	.000000	.000000	
286	.000000	.000000	314.815810
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
287	.000000	.000000	341.985393
.000000	.000000	.000000	
288	.000000	.000000	263.976012
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-71.839682	-93.622433
.000000	.000000	.000000	
272	.000000	-84.697814	-113.369249
.000000	.000000	.000000	
273	-49.205717	-80.466689	-116.698492
.000000	.000000	.000000	
274	.000000	-84.838607	-125.083788
.000000	.000000	.000000	
275	.000000	-110.923213	-112.000464
.000000	.000000	.000000	
276	.000000	-84.750107	-84.891819
.000000	.000000	.000000	
277	.000000	-111.460898	-56.372159
.000000	.000000	.000000	
278	.000000	-96.414936	-82.893927
.000000	.000000	.000000	
279	-28.056614	-95.880256	-84.980388
.000000	.000000	.000000	
280	.000000	-99.626509	-95.251342
.000000	.000000	.000000	
281	.000000	-119.096929	-72.765336
.000000	.000000	.000000	
282	.000000	-139.949873	-50.773403
.000000	.000000	.000000	
283	.000000	.000000	-83.415280
.000000	.000000	.000000	
284	.000000	.000000	-92.036155
.000000	.000000	.000000	
285	-41.003096	.000000	-92.541918
.000000	.000000	.000000	
286	.000000	.000000	-98.855372
.000000	.000000	.000000	
287	.000000	.000000	-96.431682
.000000	.000000	.000000	
288	.000000	.000000	-85.303795
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	4.522466	131.294157
.000000	.000000	.000000	
272	.000000	0.607869	151.874980
.000000	.000000	.000000	
273	10.386999	0.654349	150.287515
.000000	.000000	.000000	
274	.000000	1.038133	150.649855
.000000	.000000	.000000	
275	.000000	10.615319	165.467773
.000000	.000000	.000000	
276	.000000	10.484784	136.283890
.000000	.000000	.000000	
277	.000000	104.070386	392.538596
.000000	.000000	.000000	
278	.000000	129.612280	439.285977
.000000	.000000	.000000	
279	11.880775	130.499076	439.391272
.000000	.000000	.000000	
280	.000000	130.568679	439.490853
.000000	.000000	.000000	
281	.000000	128.406251	440.088097
.000000	.000000	.000000	
282	.000000	110.442220	394.148071
.000000	.000000	.000000	
283	.000000	.000000	17.560373
.000000	.000000	.000000	
284	.000000	.000000	35.721940
.000000	.000000	.000000	
285	12.614606	.000000	36.935670
.000000	.000000	.000000	
286	.000000	.000000	37.682797
.000000	.000000	.000000	
287	.000000	.000000	50.397457
.000000	.000000	.000000	
288	.000000	.000000	17.762745
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

COMB DB-G2-1 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-104.093527	-25.421992
.000000	.000000	.000000	
272	.000000	-129.160136	-32.056802
.000000	.000000	.000000	
273	-10.947153	-129.988668	-33.206405
.000000	.000000	.000000	
274	.000000	-130.083026	-36.978024
.000000	.000000	.000000	
275	.000000	-128.610594	-30.977172
.000000	.000000	.000000	
276	.000000	-110.253916	-20.966735
.000000	.000000	.000000	
277	.000000	-4.155274	-19.747311
.000000	.000000	.000000	
278	.000000	-0.763529	-29.141978
.000000	.000000	.000000	
279	-11.928025	-0.829741	-29.874421
.000000	.000000	.000000	
280	.000000	-0.755653	-33.274996
.000000	.000000	.000000	
281	.000000	-10.581984	-25.558236
.000000	.000000	.000000	
282	.000000	-10.060283	-17.744929
.000000	.000000	.000000	
283	.000000	.000000	-24.906623
.000000	.000000	.000000	
284	.000000	.000000	-31.112019
.000000	.000000	.000000	
285	-12.671326	.000000	-31.916866
.000000	.000000	.000000	
286	.000000	.000000	-34.179028
.000000	.000000	.000000	
287	.000000	.000000	-31.257735
.000000	.000000	.000000	
288	.000000	.000000	-24.019895
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	43.110503	140.639691
.000000	.000000	.000000	
272	.000000	50.161199	174.781330
.000000	.000000	.000000	
273	18.477001	50.118927	173.112599
.000000	.000000	.000000	
274	.000000	51.069544	174.300826
.000000	.000000	.000000	
275	.000000	62.654770	202.595259
.000000	.000000	.000000	
276	.000000	52.038127	148.702755
.000000	.000000	.000000	
277	.000000	78.625501	803.430466
.000000	.000000	.000000	
278	.000000	99.144013	912.649249
.000000	.000000	.000000	
279	23.606942	96.622603	914.563608
.000000	.000000	.000000	
280	.000000	98.450709	914.756013
.000000	.000000	.000000	
281	.000000	111.059187	913.122950
.000000	.000000	.000000	
282	.000000	85.972806	809.691679
.000000	.000000	.000000	
283	.000000	.000000	123.800521
.000000	.000000	.000000	
284	.000000	.000000	169.233059
.000000	.000000	.000000	
285	17.881163	.000000	170.361123
.000000	.000000	.000000	
286	.000000	.000000	171.159905
.000000	.000000	.000000	
287	.000000	.000000	201.416079
.000000	.000000	.000000	
288	.000000	.000000	127.709134
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-78.483451	-59.372519
.000000	.000000	.000000	
272	.000000	-99.160029	-75.598585
.000000	.000000	.000000	
273	-18.905894	-97.230609	-77.874700
.000000	.000000	.000000	
274	.000000	-98.505640	-83.794507
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
275	.000000	-113.886561	-73.600331
.000000	.000000	.000000	
276	.000000	-85.143978	-53.656363
.000000	.000000	.000000	
277	.000000	-42.885281	-37.518000
.000000	.000000	.000000	
278	.000000	-50.207047	-54.859092
.000000	.000000	.000000	
279	-23.648778	-50.137568	-56.556828
.000000	.000000	.000000	
280	.000000	-50.915740	-63.169741
.000000	.000000	.000000	
281	.000000	-62.748678	-48.742850
.000000	.000000	.000000	
282	.000000	-51.717142	-33.247854
.000000	.000000	.000000	
283	.000000	.000000	-45.978998
.000000	.000000	.000000	
284	.000000	.000000	-62.388433
.000000	.000000	.000000	
285	-17.963980	.000000	-63.816910
.000000	.000000	.000000	
286	.000000	.000000	-69.581368
.000000	.000000	.000000	
287	.000000	.000000	-61.222881
.000000	.000000	.000000	
288	.000000	.000000	-38.293295
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	72.292390	493.787470
.000000	.000000	.000000	
272	.000000	62.695634	559.627660
.000000	.000000	.000000	
273	38.032377	60.841527	557.561698
.000000	.000000	.000000	
274	.000000	64.496235	558.651138
.000000	.000000	.000000	
275	.000000	83.862380	585.214502
.000000	.000000	.000000	
276	.000000	98.697563	503.246198
.000000	.000000	.000000	
277	.000000	95.431865	799.323158
.000000	.000000	.000000	
278	.000000	134.117241	918.171891
.000000	.000000	.000000	
279	26.550510	131.964385	920.275555
.000000	.000000	.000000	
280	.000000	134.077526	920.204636
.000000	.000000	.000000	
281	.000000	146.998649	927.362856
.000000	.000000	.000000	
282	.000000	101.341547	812.857058
.000000	.000000	.000000	
283	.000000	.000000	116.560179
.000000	.000000	.000000	
284	.000000	.000000	159.214106
.000000	.000000	.000000	
285	32.299607	.000000	161.310790
.000000	.000000	.000000	
286	.000000	.000000	159.866386
.000000	.000000	.000000	
287	.000000	.000000	189.398603
.000000	.000000	.000000	
288	.000000	.000000	117.016391
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-95.301431	-81.854083
.000000	.000000	.000000	
272	.000000	-134.385161	-102.409727
.000000	.000000	.000000	
273	-38.122587	-132.686245	-105.639672
.000000	.000000	.000000	
274	.000000	-134.367042	-114.383070
.000000	.000000	.000000	
275	.000000	-150.104243	-99.926360
.000000	.000000	.000000	
276	.000000	-100.484734	-71.711471
.000000	.000000	.000000	
277	.000000	-71.653577	-51.032811
.000000	.000000	.000000	
278	.000000	-62.610582	-75.413818
.000000	.000000	.000000	
279	-26.606882	-61.205778	-77.237731
.000000	.000000	.000000	
280	.000000	-64.204119	-86.394817
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
281	.000000	-82.940866	-65.997243
.000000	.000000	.000000	
282	.000000	-97.573014	-46.139086
.000000	.000000	.000000	
283	.000000	.000000	-70.726569
.000000	.000000	.000000	
284	.000000	.000000	-77.192582
.000000	.000000	.000000	
285	-32.500934	.000000	-77.742029
.000000	.000000	.000000	
286	.000000	.000000	-83.303812
.000000	.000000	.000000	
287	.000000	.000000	-81.532461

.000000	.000000	.000000	
288	.000000	.000000	-71.094075
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	74.462468	415.189512
.000000	.000000	.000000	
272	.000000	69.191797	471.614093
.000000	.000000	.000000	
273	44.267256	68.555843	470.785961
.000000	.000000	.000000	
274	.000000	71.809644	469.993894
.000000	.000000	.000000	
275	.000000	86.940851	492.271463
.000000	.000000	.000000	
276	.000000	96.676249	422.350381
.000000	.000000	.000000	
277	.000000	89.380687	731.306027
.000000	.000000	.000000	
278	.000000	123.691707	841.468688
.000000	.000000	.000000	
279	25.621177	120.708948	841.839681
.000000	.000000	.000000	
280	.000000	124.499188	842.378685
.000000	.000000	.000000	
281	.000000	138.880506	855.298138
.000000	.000000	.000000	
282	.000000	103.248527	746.009178
.000000	.000000	.000000	
283	.000000	.000000	397.008698
.000000	.000000	.000000	
284	.000000	.000000	461.358589
.000000	.000000	.000000	
285	42.079841	.000000	462.107822
.000000	.000000	.000000	
286	.000000	.000000	460.930757
.000000	.000000	.000000	
287	.000000	.000000	486.566744
.000000	.000000	.000000	
288	.000000	.000000	399.025435
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-89.089180	-85.625705
.000000	.000000	.000000	
272	.000000	-123.971370	-101.743554
.000000	.000000	.000000	
273	-44.315466	-121.585480	-103.753332
.000000	.000000	.000000	
274	.000000	-124.862688	-111.086982
.000000	.000000	.000000	
275	.000000	-142.531300	-102.063372
.000000	.000000	.000000	
276	.000000	-102.052560	-78.630895
.000000	.000000	.000000	
277	.000000	-73.913723	-56.075912
.000000	.000000	.000000	
278	.000000	-69.280269	-81.657968
.000000	.000000	.000000	
279	-25.671082	-69.003879	-84.012680
.000000	.000000	.000000	
280	.000000	-71.750727	-94.119744
.000000	.000000	.000000	
281	.000000	-86.178091	-72.365071
.000000	.000000	.000000	
282	.000000	-95.653524	-49.783683
.000000	.000000	.000000	
283	.000000	.000000	-80.749444
.000000	.000000	.000000	
284	.000000	.000000	-94.304794
.000000	.000000	.000000	
285	-42.256890	.000000	-95.188429
.000000	.000000	.000000	
286	.000000	.000000	-102.422273
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
287	.000000	.000000	-96.669382
.000000	.000000	.000000	
288	.000000	.000000	-77.039392
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	7.314045	5.923220
.000000	.000000	.000000	
272	.000000	9.867789	8.354750
.000000	.000000	.000000	
273	20.010238	8.208775	9.720045
.000000	.000000	.000000	
274	.000000	10.102628	7.436395
.000000	.000000	.000000	
275	.000000	9.830981	8.281845
.000000	.000000	.000000	
276	.000000	6.076544	4.870324
.000000	.000000	.000000	
277	.000000	22.006961	49.155527
.000000	.000000	.000000	
278	.000000	23.680287	73.917497
.000000	.000000	.000000	
279	9.066990	22.118903	72.250385
.000000	.000000	.000000	
280	.000000	25.499376	73.423240
.000000	.000000	.000000	
281	.000000	29.642416	88.931537
.000000	.000000	.000000	
282	.000000	37.411113	52.351476
.000000	.000000	.000000	
283	.000000	.000000	529.846349
.000000	.000000	.000000	
284	.000000	.000000	584.167414
.000000	.000000	.000000	
285	26.375000	.000000	584.784627
.000000	.000000	.000000	
286	.000000	.000000	584.875936
.000000	.000000	.000000	
287	.000000	.000000	585.773660
.000000	.000000	.000000	
288	.000000	.000000	536.600023
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-21.771498	-23.793047
.000000	.000000	.000000	
272	.000000	-23.775582	-22.824364
.000000	.000000	.000000	
273	-19.971391	-22.530133	-21.423327
.000000	.000000	.000000	
274	.000000	-25.668779	-21.148928
.000000	.000000	.000000	
275	.000000	-31.234609	-27.208655
.000000	.000000	.000000	
276	.000000	-36.686372	-27.775551
.000000	.000000	.000000	
277	.000000	-7.778328	-20.899979
.000000	.000000	.000000	
278	.000000	-9.561374	-28.754617
.000000	.000000	.000000	
279	-9.079066	-7.706127	-30.041086
.000000	.000000	.000000	
280	.000000	-9.655629	-33.833214
.000000	.000000	.000000	
281	.000000	-9.691924	-26.655730
.000000	.000000	.000000	
282	.000000	-6.232434	-17.325904
.000000	.000000	.000000	
283	.000000	.000000	-34.202778
.000000	.000000	.000000	
284	.000000	.000000	-46.884518
.000000	.000000	.000000	
285	-26.388281	.000000	-47.546542
.000000	.000000	.000000	
286	.000000	.000000	-51.595208
.000000	.000000	.000000	
287	.000000	.000000	-44.928435
.000000	.000000	.000000	
288	.000000	.000000	-28.053794
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

COMB DB-G3-2 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	74.836547	14.378637
.000000	.000000	.000000	
272	.000000	99.199980	22.264163
.000000	.000000	.000000	
273	31.808875	98.460978	24.667752
.000000	.000000	.000000	
274	.000000	100.755272	22.588380
.000000	.000000	.000000	
275	.000000	98.252471	30.330232
.000000	.000000	.000000	
276	.000000	76.829868	13.600003
.000000	.000000	.000000	
277	.000000	27.777679	348.429499
.000000	.000000	.000000	
278	.000000	33.179669	416.533693
.000000	.000000	.000000	
279	16.219879	30.229733	415.515138
.000000	.000000	.000000	
280	.000000	35.253751	416.898477
.000000	.000000	.000000	
281	.000000	45.287059	431.672977
.000000	.000000	.000000	
282	.000000	47.197111	356.967028
.000000	.000000	.000000	
283	.000000	.000000	681.632495
.000000	.000000	.000000	
284	.000000	.000000	757.337769
.000000	.000000	.000000	
285	33.817564	.000000	757.090599
.000000	.000000	.000000	
286	.000000	.000000	757.139271
.000000	.000000	.000000	
287	.000000	.000000	770.442290
.000000	.000000	.000000	
288	.000000	.000000	688.718182
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-27.369220	-70.274853
.000000	.000000	.000000	
272	.000000	-33.185245	-81.543044
.000000	.000000	.000000	
273	-31.763072	-30.821231	-80.832559
.000000	.000000	.000000	
274	.000000	-35.402749	-80.685127
.000000	.000000	.000000	
275	.000000	-48.116408	-86.278149
.000000	.000000	.000000	
276	.000000	-45.975313	-74.882260
.000000	.000000	.000000	
277	.000000	-75.368705	-36.674953
.000000	.000000	.000000	
278	.000000	-99.563762	-51.378449
.000000	.000000	.000000	
279	-16.227861	-98.645350	-53.569670
.000000	.000000	.000000	
280	.000000	-101.003365	-60.243846
.000000	.000000	.000000	
281	.000000	-98.431808	-47.178021
.000000	.000000	.000000	
282	.000000	-76.955260	-30.964562
.000000	.000000	.000000	
283	.000000	.000000	-56.099088
.000000	.000000	.000000	
284	.000000	.000000	-77.728434
.000000	.000000	.000000	
285	-33.857854	.000000	-78.913132
.000000	.000000	.000000	
286	.000000	.000000	-85.945340
.000000	.000000	.000000	
287	.000000	.000000	-74.567245
.000000	.000000	.000000	
288	.000000	.000000	-45.546110
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	39.913375	76.290699
.000000	.000000	.000000	
272	.000000	48.459398	105.878076
.000000	.000000	.000000	
273	32.541615	47.013350	106.041705
.000000	.000000	.000000	
274	.000000	49.250436	104.640339
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
275	.000000	56.918227	128.578203
.000000	.000000	.000000	
276	.000000	43.235211	82.385906
.000000	.000000	.000000	
277	.000000	48.854313	693.914586
.000000	.000000	.000000	
278	.000000	55.897556	808.398823
.000000	.000000	.000000	
279	27.514739	52.080339	806.937661
.000000	.000000	.000000	
280	.000000	57.149870	808.254776
.000000	.000000	.000000	
281	.000000	73.583907	822.289287
.000000	.000000	.000000	
282	.000000	69.301786	701.306912
.000000	.000000	.000000	
283	.000000	.000000	636.762043
.000000	.000000	.000000	
284	.000000	.000000	730.312761
.000000	.000000	.000000	
285	38.256661	.000000	730.907805
.000000	.000000	.000000	
286	.000000	.000000	731.441247
.000000	.000000	.000000	
287	.000000	.000000	757.422506
.000000	.000000	.000000	
288	.000000	.000000	646.883437
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-48.421998	-69.588145
.000000	.000000	.000000	
272	.000000	-56.088204	-80.480922
.000000	.000000	.000000	
273	-32.459780	-53.141699	-80.746832
.000000	.000000	.000000	
274	.000000	-57.466199	-84.877945
.000000	.000000	.000000	
275	.000000	-77.613439	-83.440877
.000000	.000000	.000000	
276	.000000	-67.837867	-69.090785
.000000	.000000	.000000	
277	.000000	-40.329980	-49.793734
.000000	.000000	.000000	
278	.000000	-48.145953	-70.891759
.000000	.000000	.000000	
279	-27.546854	-47.025739	-73.576237
.000000	.000000	.000000	
280	.000000	-48.649723	-82.495702
.000000	.000000	.000000	
281	.000000	-56.814590	-64.251093
.000000	.000000	.000000	
282	.000000	-43.332247	-42.813179
.000000	.000000	.000000	
283	.000000	.000000	-65.075773
.000000	.000000	.000000	
284	.000000	.000000	-92.948940
.000000	.000000	.000000	
285	-38.320731	.000000	-94.686966
.000000	.000000	.000000	
286	.000000	.000000	-104.068540
.000000	.000000	.000000	
287	.000000	.000000	-89.449138
.000000	.000000	.000000	
288	.000000	.000000	-51.675948
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	47.177250	300.165335
.000000	.000000	.000000	
272	.000000	46.484807	345.825929
.000000	.000000	.000000	
273	41.900221	44.456695	345.101069
.000000	.000000	.000000	
274	.000000	47.772138	343.925602
.000000	.000000	.000000	
275	.000000	60.720823	366.453139
.000000	.000000	.000000	
276	.000000	62.510997	305.830384
.000000	.000000	.000000	
277	.000000	111.538008	713.000430
.000000	.000000	.000000	
278	.000000	145.257251	824.224312
.000000	.000000	.000000	
279	26.612266	142.327967	823.715380
.000000	.000000	.000000	
280	.000000	146.762420	824.682844
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
281	.000000	160.020264	839.954411
.000000	.000000	.000000	
282	.000000	130.478803	724.903339
.000000	.000000	.000000	
283	.000000	.000000	534.857320
.000000	.000000	.000000	
284	.000000	.000000	613.858706
.000000	.000000	.000000	
285	44.522883	.000000	615.336049
.000000	.000000	.000000	
286	.000000	.000000	614.804585
.000000	.000000	.000000	
287	.000000	.000000	639.513960
.000000	.000000	.000000	
288	.000000	.000000	540.718633
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-111.267396	-80.227518
.000000	.000000	.000000	
272	.000000	-145.583172	-94.199399
.000000	.000000	.000000	
273	-42.050962	-143.335233	-95.354038
.000000	.000000	.000000	
274	.000000	-147.191205	-101.605036
.000000	.000000	.000000	
275	.000000	-163.922661	-96.023684
.000000	.000000	.000000	
276	.000000	-129.168537	-75.885843
.000000	.000000	.000000	
277	.000000	-47.173704	-55.915684
.000000	.000000	.000000	
278	.000000	-46.283101	-80.682418
.000000	.000000	.000000	
279	-26.669579	-44.709337	-83.249459
.000000	.000000	.000000	
280	.000000	-47.143586	-93.259970
.000000	.000000	.000000	
281	.000000	-60.139320	-72.076873
.000000	.000000	.000000	
282	.000000	-61.931065	-49.023911
.000000	.000000	.000000	
283	.000000	.000000	-80.510365
.000000	.000000	.000000	
284	.000000	.000000	-99.146025
.000000	.000000	.000000	
285	-44.663094	.000000	-100.420638
.000000	.000000	.000000	
286	.000000	.000000	-108.384199
.000000	.000000	.000000	
287	.000000	.000000	-99.535317
.000000	.000000	.000000	
288	.000000	.000000	-72.783976
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	102.681730	545.808054
.000000	.000000	.000000	
272	.000000	113.201170	1130.798
.000000	.000000	.000000	
273	55.675906	117.622104	1152.010
.000000	.000000	.000000	
274	.000000	119.582840	1148.806
.000000	.000000	.000000	
275	.000000	131.532806	1192.471
.000000	.000000	.000000	
276	.000000	151.046786	589.453744
.000000	.000000	.000000	
277	.000000	18.576665	56.562669
.000000	.000000	.000000	
278	.000000	12.458268	158.230274
.000000	.000000	.000000	
279	16.010312	13.403499	167.933910
.000000	.000000	.000000	
280	.000000	17.286579	166.862382
.000000	.000000	.000000	
281	.000000	30.113522	179.933178
.000000	.000000	.000000	
282	.000000	31.558747	81.778632
.000000	.000000	.000000	
283	.000000	.000000	9.660258
.000000	.000000	.000000	
284	.000000	.000000	12.099393
.000000	.000000	.000000	
285	29.221799	.000000	14.349055
.000000	.000000	.000000	
286	.000000	.000000	10.171088
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
287	.000000	.000000	15.552372
.000000	.000000	.000000	
288	.000000	.000000	5.166497
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-20.077516	-51.020647
.000000	.000000	.000000	
272	.000000	-12.358021	-61.578173
.000000	.000000	.000000	
273	-46.404056	-12.629042	-97.879154
.000000	.000000	.000000	
274	.000000	-16.271867	-110.397322
.000000	.000000	.000000	
275	.000000	-30.277831	-60.438822
.000000	.000000	.000000	
276	.000000	-33.482695	-40.419832
.000000	.000000	.000000	
277	.000000	-100.942689	-41.420443
.000000	.000000	.000000	
278	.000000	-113.766072	-63.259500
.000000	.000000	.000000	
279	-19.225923	-118.465399	-86.334360
.000000	.000000	.000000	
280	.000000	-120.312649	-96.817801
.000000	.000000	.000000	
281	.000000	-131.905391	-54.795465
.000000	.000000	.000000	
282	.000000	-148.447617	-44.498303
.000000	.000000	.000000	
283	.000000	.000000	-53.488921
.000000	.000000	.000000	
284	.000000	.000000	-74.118865
.000000	.000000	.000000	
285	-30.640812	.000000	-80.268094
.000000	.000000	.000000	
286	.000000	.000000	-85.448113
.000000	.000000	.000000	
287	.000000	.000000	-81.923424
.000000	.000000	.000000	
288	.000000	.000000	-69.608679
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	106.786801	745.697751
.000000	.000000	.000000	
272	.000000	96.375181	1564.612
.000000	.000000	.000000	
273	74.041196	99.594377	1595.970
.000000	.000000	.000000	
274	.000000	103.830959	1590.802
.000000	.000000	.000000	
275	.000000	130.461522	1659.836
.000000	.000000	.000000	
276	.000000	172.699781	807.530712
.000000	.000000	.000000	
277	.000000	100.999625	311.144526
.000000	.000000	.000000	
278	.000000	160.534943	687.802390
.000000	.000000	.000000	
279	27.122656	163.925751	709.319482
.000000	.000000	.000000	
280	.000000	168.090059	706.829352
.000000	.000000	.000000	
281	.000000	187.130160	732.380331
.000000	.000000	.000000	
282	.000000	120.918953	360.039373
.000000	.000000	.000000	
283	.000000	.000000	19.336917
.000000	.000000	.000000	
284	.000000	.000000	38.190443
.000000	.000000	.000000	
285	47.184746	.000000	44.298042
.000000	.000000	.000000	
286	.000000	.000000	38.543046
.000000	.000000	.000000	
287	.000000	.000000	51.706671
.000000	.000000	.000000	
288	.000000	.000000	10.291013
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

COMB DL-G1-2 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-103.022410	-85.218354
.000000	.000000	.000000	
272	.000000	-160.314889	-104.376055
.000000	.000000	.000000	
273	-72.093715	-162.433961	-164.308433
.000000	.000000	.000000	
274	.000000	-165.893636	-185.812403
.000000	.000000	.000000	
275	.000000	-188.526124	-101.653053
.000000	.000000	.000000	
276	.000000	-123.355255	-67.868577
.000000	.000000	.000000	
277	.000000	-104.302512	-52.650672
.000000	.000000	.000000	
278	.000000	-97.104183	-84.669522
.000000	.000000	.000000	
279	-28.116687	-100.917216	-125.355133
.000000	.000000	.000000	
280	.000000	-104.465672	-145.852088
.000000	.000000	.000000	
281	.000000	-130.571823	-67.358061
.000000	.000000	.000000	
282	.000000	-168.789390	-54.812553
.000000	.000000	.000000	
283	.000000	.000000	-93.574812
.000000	.000000	.000000	
284	.000000	.000000	-126.786328
.000000	.000000	.000000	
285	-48.375497	.000000	-143.628485
.000000	.000000	.000000	
286	.000000	.000000	-154.978346
.000000	.000000	.000000	
287	.000000	.000000	-135.445310
.000000	.000000	.000000	
288	.000000	.000000	-109.583702
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	103.019815	707.717849
.000000	.000000	.000000	
272	.000000	92.389996	1500.819
.000000	.000000	.000000	
273	70.950701	95.502671	1534.313
.000000	.000000	.000000	

274	.000000	100.332361	1528.292
.000000	.000000	.000000	
275	.000000	129.233142	1608.290
.000000	.000000	.000000	
276	.000000	164.293744	771.855454
.000000	.000000	.000000	
277	.000000	86.633101	667.031703
.000000	.000000	.000000	
278	.000000	130.573175	1396.832
.000000	.000000	.000000	
279	37.052148	131.800232	1429.266
.000000	.000000	.000000	
280	.000000	136.600704	1424.939
.000000	.000000	.000000	
281	.000000	170.699799	1461.029
.000000	.000000	.000000	
282	.000000	107.905587	732.934121
.000000	.000000	.000000	
283	.000000	.000000	88.219889
.000000	.000000	.000000	
284	.000000	.000000	224.236087
.000000	.000000	.000000	
285	47.189358	.000000	238.018418
.000000	.000000	.000000	
286	.000000	.000000	231.622875
.000000	.000000	.000000	
287	.000000	.000000	265.236126
.000000	.000000	.000000	
288	.000000	.000000	89.143159
.000000	.000000	.000000	

COMB DL-G1-3 ------------------ MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-88.236452	-101.096311
.000000	.000000	.000000	
272	.000000	-131.310034	-127.213597
.000000	.000000	.000000	
273	-68.678135	-131.877472	-197.821615
.000000	.000000	.000000	
274	.000000	-135.906711	-225.614698
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
275	.000000	-173.821777	-122.595332
.000000	.000000	.000000	
276	.000000	-109.595539	-80.491422
.000000	.000000	.000000	
277	.000000	-100.804793	-71.401120
.000000	.000000	.000000	
278	.000000	-92.612638	-111.495950
.000000	.000000	.000000	
279	-38.094426	-95.695926	-166.771725
.000000	.000000	.000000	
280	.000000	-99.335578	-193.815497
.000000	.000000	.000000	
281	.000000	-129.194961	-90.474249
.000000	.000000	.000000	
282	.000000	-160.623448	-71.550096
.000000	.000000	.000000	
283	.000000	.000000	-104.226047
.000000	.000000	.000000	
284	.000000	.000000	-145.942385
.000000	.000000	.000000	
285	-48.735460	.000000	-180.680049
.000000	.000000	.000000	
286	.000000	.000000	-200.385148
.000000	.000000	.000000	
287	.000000	.000000	-151.728601
.000000	.000000	.000000	
288	.000000	.000000	-111.197998
.000000	.000000	.000000	

COMB DL-G1-4 ------------------ MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	123.490512	595.230228
.000000	.000000	.000000	
272	.000000	141.408321	1258.738
.000000	.000000	.000000	
273	76.989571	146.848439	1288.936
.000000	.000000	.000000	
274	.000000	152.098478	1282.109
.000000	.000000	.000000	
275	.000000	173.324482	1350.489
.000000	.000000	.000000	
276	.000000	175.053570	647.283961
.000000	.000000	.000000	
277	.000000	79.750891	716.658269
.000000	.000000	.000000	
278	.000000	118.690473	1506.735
.000000	.000000	.000000	
279	35.245115	120.373119	1542.301
.000000	.000000	.000000	
280	.000000	125.947594	1537.144
.000000	.000000	.000000	
281	.000000	161.649478	1575.115
.000000	.000000	.000000	
282	.000000	104.851569	785.709301
.000000	.000000	.000000	
283	.000000	.000000	284.946589
.000000	.000000	.000000	
284	.000000	.000000	649.122475
.000000	.000000	.000000	
285	52.950700	.000000	670.746921
.000000	.000000	.000000	
286	.000000	.000000	664.292528
.000000	.000000	.000000	
287	.000000	.000000	715.769443
.000000	.000000	.000000	
288	.000000	.000000	302.643150
.000000	.000000	.000000	

COMB DL-G1-4 ------------------ MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-80.565646	-122.112418
.000000	.000000	.000000	
272	.000000	-119.505906	-167.366985
.000000	.000000	.000000	
273	-73.002033	-120.934424	-233.664173
.000000	.000000	.000000	
274	.000000	-125.850641	-260.989771
.000000	.000000	.000000	
275	.000000	-165.251196	-161.572553
.000000	.000000	.000000	
276	.000000	-105.300196	-106.067725
.000000	.000000	.000000	
277	.000000	-121.949622	-76.960337
.000000	.000000	.000000	
278	.000000	-141.787104	-118.343711
.000000	.000000	.000000	
279	-36.524763	-146.889969	-177.342005
.000000	.000000	.000000	
280	.000000	-150.711250	-206.168433
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
281	.000000	-173.340439	-97.665595
.000000	.000000	.000000	
282	.000000	-172.429207	-74.872271
.000000	.000000	.000000	
283	.000000	.000000	-114.106935
.000000	.000000	.000000	
284	.000000	.000000	-159.708128
.000000	.000000	.000000	
285	-54.839189	.000000	-209.504932
.000000	.000000	.000000	
286	.000000	.000000	-233.702553
.000000	.000000	.000000	
287	.000000	.000000	-162.545245
.000000	.000000	.000000	
288	.000000	.000000	-114.113445
.000000	.000000	.000000	

COMB DL-G2-1 ------------------ MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	6.108245	149.651870
.000000	.000000	.000000	
272	.000000	0.475240	337.599756
.000000	.000000	.000000	
273	16.158379	0.517462	347.143147
.000000	.000000	.000000	
274	.000000	0.944660	345.180340
.000000	.000000	.000000	
275	.000000	15.063578	371.745811
.000000	.000000	.000000	
276	.000000	17.884913	167.172080
.000000	.000000	.000000	
277	.000000	92.019718	371.662792
.000000	.000000	.000000	
278	.000000	169.455216	755.522006
.000000	.000000	.000000	
279	17.661288	172.083671	769.508838
.000000	.000000	.000000	
280	.000000	171.902393	767.662419
.000000	.000000	.000000	
281	.000000	179.441072	782.779579
.000000	.000000	.000000	
282	.000000	98.481079	397.380513
.000000	.000000	.000000	
283	.000000	.000000	20.874558
.000000	.000000	.000000	
284	.000000	.000000	69.920220
.000000	.000000	.000000	
285	16.332938	.000000	75.997483
.000000	.000000	.000000	
286	.000000	.000000	74.770490
.000000	.000000	.000000	
287	.000000	.000000	88.657854
.000000	.000000	.000000	
288	.000000	.000000	19.170823
.000000	.000000	.000000	

COMB DL-G2-1 ------------------ MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-92.295980	-34.980378
.000000	.000000	.000000	
272	.000000	-169.321376	-44.592263
.000000	.000000	.000000	
273	-24.026071	-171.370104	-68.680536
.000000	.000000	.000000	
274	.000000	-170.796596	-78.710906
.000000	.000000	.000000	
275	.000000	-180.943227	-42.490970
.000000	.000000	.000000	
276	.000000	-98.627782	-28.045265
.000000	.000000	.000000	
277	.000000	-5.570902	-27.038198
.000000	.000000	.000000	
278	.000000	-0.680006	-41.163673
.000000	.000000	.000000	
279	-15.288097	-0.754452	-62.193767
.000000	.000000	.000000	
280	.000000	-0.717045	-71.879390
.000000	.000000	.000000	
281	.000000	-14.911994	-33.900963
.000000	.000000	.000000	
282	.000000	-16.906716	-26.134492
.000000	.000000	.000000	
283	.000000	.000000	-37.699288
.000000	.000000	.000000	
284	.000000	.000000	-52.543228
.000000	.000000	.000000	
285	-16.099044	.000000	-67.856711
.000000	.000000	.000000	
286	.000000	.000000	-75.811672
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
287	.000000	.000000	-52.584301
.000000	.000000	.000000	
288	.000000	.000000	-33.245477
.000000	.000000	.000000	

COMB DL-G2-2 ------------------ MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	38.188147	163.708122
.000000	.000000	.000000	
272	.000000	52.237601	375.073639
.000000	.000000	.000000	
273	27.012384	53.677475	389.491546
.000000	.000000	.000000	
274	.000000	55.709897	386.214531
.000000	.000000	.000000	
275	.000000	73.103616	426.249523
.000000	.000000	.000000	
276	.000000	51.706402	184.751213
.000000	.000000	.000000	
277	.000000	75.807297	762.884615
.000000	.000000	.000000	
278	.000000	131.910864	1547.223
.000000	.000000	.000000	
279	28.641158	132.210405	1575.778
.000000	.000000	.000000	
280	.000000	133.702447	1571.630
.000000	.000000	.000000	
281	.000000	159.881736	1598.566
.000000	.000000	.000000	
282	.000000	86.764027	812.164144
.000000	.000000	.000000	
283	.000000	.000000	144.082618
.000000	.000000	.000000	
284	.000000	.000000	371.854767
.000000	.000000	.000000	
285	21.384083	.000000	388.255932
.000000	.000000	.000000	
286	.000000	.000000	385.675235
.000000	.000000	.000000	
287	.000000	.000000	426.897689
.000000	.000000	.000000	
288	.000000	.000000	156.300455
.000000	.000000	.000000	

COMB DL-G2-2 ------------------ MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-75.698261	-73.705937
.000000	.000000	.000000	
272	.000000	-132.745090	-102.772340
.000000	.000000	.000000	
273	-30.954612	-133.384017	-142.621546
.000000	.000000	.000000	
274	.000000	-134.425346	-160.735837
.000000	.000000	.000000	
275	.000000	-163.544330	-98.250800
.000000	.000000	.000000	
276	.000000	-86.070741	-62.925028
.000000	.000000	.000000	
277	.000000	-37.785764	-51.978791
.000000	.000000	.000000	
278	.000000	-51.875904	-78.093032
.000000	.000000	.000000	
279	-27.314166	-52.668598	-118.249120
.000000	.000000	.000000	
280	.000000	-53.558481	-136.929892
.000000	.000000	.000000	
281	.000000	-72.815552	-65.620095
.000000	.000000	.000000	
282	.000000	-50.854835	-48.865032
.000000	.000000	.000000	
283	.000000	.000000	-61.849814
.000000	.000000	.000000	
284	.000000	.000000	-89.939178
.000000	.000000	.000000	
285	-21.917733	.000000	-129.164249
.000000	.000000	.000000	
286	.000000	.000000	-148.043395
.000000	.000000	.000000	
287	.000000	.000000	-87.367696
.000000	.000000	.000000	
288	.000000	.000000	-49.052246
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

COMB DL-G2-3 ------------------ MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	75.054443	519.468399
.000000	.000000	.000000	
272	.000000	71.866051	1112.314
.000000	.000000	.000000	
273	55.944905	74.517990	1139.872
.000000	.000000	.000000	
274	.000000	78.910230	1134.496
.000000	.000000	.000000	
275	.000000	109.322605	1202.394
.000000	.000000	.000000	
276	.000000	121.153563	567.353117
.000000	.000000	.000000	
277	.000000	98.243463	780.246211
.000000	.000000	.000000	
278	.000000	162.293156	1621.222
.000000	.000000	.000000	
279	32.364817	164.748893	1656.330
.000000	.000000	.000000	
280	.000000	168.024568	1651.552
.000000	.000000	.000000	
281	.000000	200.386470	1686.609
.000000	.000000	.000000	
282	.000000	117.071956	847.032329
.000000	.000000	.000000	
283	.000000	.000000	137.213958
.000000	.000000	.000000	
284	.000000	.000000	343.559050
.000000	.000000	.000000	
285	41.487623	.000000	359.940672
.000000	.000000	.000000	
286	.000000	.000000	354.152023
.000000	.000000	.000000	
287	.000000	.000000	394.671542
.000000	.000000	.000000	
288	.000000	.000000	143.821116
.000000	.000000	.000000	

COMB DL-G2-3 ------------------ MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-98.988565	-105.795767
.000000	.000000	.000000	
272	.000000	-163.141956	-140.416241
.000000	.000000	.000000	
273	-57.982982	-165.020723	-204.313158
.000000	.000000	.000000	
274	.000000	-167.577544	-230.299179
.000000	.000000	.000000	
275	.000000	-204.645707	-135.266898
.000000	.000000	.000000	
276	.000000	-117.636232	-87.995924
.000000	.000000	.000000	
277	.000000	-73.513805	-69.781607
.000000	.000000	.000000	
278	.000000	-72.082483	-106.883097
.000000	.000000	.000000	
279	-31.980686	-74.662448	-160.818750
.000000	.000000	.000000	
280	.000000	-77.670943	-186.867274
.000000	.000000	.000000	
281	.000000	-108.872476	-87.663535
.000000	.000000	.000000	
282	.000000	-118.411700	-68.343242
.000000	.000000	.000000	
283	.000000	.000000	-97.384722
.000000	.000000	.000000	
284	.000000	.000000	-135.820420
.000000	.000000	.000000	
285	-42.630749	.000000	-176.974405
.000000	.000000	.000000	
286	.000000	.000000	-198.407389
.000000	.000000	.000000	
287	.000000	.000000	-136.838586
.000000	.000000	.000000	
288	.000000	.000000	-95.580470
.000000	.000000	.000000	

COMB DL-G2-4 ------------------ MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	75.411652	438.292937
.000000	.000000	.000000	
272	.000000	80.942913	933.613889
.000000	.000000	.000000	
273	63.209317	84.848866	957.972061
.000000	.000000	.000000	
274	.000000	90.118901	950.976257
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
275	.000000	113.646907	1007.676
.000000	.000000	.000000	
276	.000000	112.967686	477.041559
.000000	.000000	.000000	
277	.000000	93.523640	727.368558
.000000	.000000	.000000	
278	.000000	150.339404	1530.120
.000000	.000000	.000000	
279	31.185061	153.670029	1564.419
.000000	.000000	.000000	
280	.000000	158.315068	1559.014
.000000	.000000	.000000	
281	.000000	191.801528	1598.809
.000000	.000000	.000000	
282	.000000	119.870099	791.323528
.000000	.000000	.000000	
283	.000000	.000000	415.524245
.000000	.000000	.000000	
284	.000000	.000000	926.667118
.000000	.000000	.000000	
285	54.241869	.000000	953.558437
.000000	.000000	.000000	
286	.000000	.000000	947.527337
.000000	.000000	.000000	
287	.000000	.000000	1006.743
.000000	.000000	.000000	
288	.000000	.000000	445.590200
.000000	.000000	.000000	

COMB DL-G2-4 ------------------ MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-93.470727	-115.181929
.000000	.000000	.000000	
272	.000000	-151.437922	-160.555512
.000000	.000000	.000000	
273	-65.429854	-154.701742	-218.488116
.000000	.000000	.000000	
274	.000000	-158.682599	-243.794368
.000000	.000000	.000000	
275	.000000	-196.505946	-155.304569
.000000	.000000	.000000	
276	.000000	-119.222358	-103.244851
.000000	.000000	.000000	
277	.000000	-74.611646	-76.520110
.000000	.000000	.000000	
278	.000000	-80.945571	-115.344128
.000000	.000000	.000000	
279	-30.383770	-84.387340	-173.724085
.000000	.000000	.000000	
280	.000000	-88.075783	-201.842600
.000000	.000000	.000000	
281	.000000	-113.159837	-96.246717
.000000	.000000	.000000	
282	.000000	-111.260313	-72.592379
.000000	.000000	.000000	
283	.000000	.000000	-111.041004
.000000	.000000	.000000	
284	.000000	.000000	-154.532944
.000000	.000000	.000000	
285	-55.631218	.000000	-211.757678
.000000	.000000	.000000	
286	.000000	.000000	-237.977145
.000000	.000000	.000000	
287	.000000	.000000	-153.286299
.000000	.000000	.000000	
288	.000000	.000000	-103.552809
.000000	.000000	.000000	

COMB DL-G3-1 ------------------ MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	9.635175	8.887635
.000000	.000000	.000000	
272	.000000	11.793654	12.411878
.000000	.000000	.000000	
273	26.001636	13.280522	14.728143
.000000	.000000	.000000	
274	.000000	16.758152	11.082461
.000000	.000000	.000000	
275	.000000	14.491957	12.225603
.000000	.000000	.000000	
276	.000000	7.905320	7.776772
.000000	.000000	.000000	
277	.000000	29.364572	57.407898
.000000	.000000	.000000	
278	.000000	42.151076	143.661341
.000000	.000000	.000000	
279	11.759946	46.206186	148.598565
.000000	.000000	.000000	
280	.000000	49.289497	146.611768
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
281	.000000	56.885981	165.051997
.000000	.000000	.000000	
282	.000000	49.916018	64.607139
.000000	.000000	.000000	
283	.000000	.000000	530.783365
.000000	.000000	.000000	
284	.000000	.000000	1123.808
.000000	.000000	.000000	
285	34.231081	.000000	1147.427
.000000	.000000	.000000	
286	.000000	.000000	1145.523
.000000	.000000	.000000	
287	.000000	.000000	1185.922
.000000	.000000	.000000	
288	.000000	.000000	576.041397
.000000	.000000	.000000	

COMB DL-G3-1 ------------------ MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-28.253883	-35.437097
.000000	.000000	.000000	
272	.000000	-42.836392	-54.370286
.000000	.000000	.000000	
273	-29.602671	-47.460060	-59.999604
.000000	.000000	.000000	
274	.000000	-50.501986	-65.109284
.000000	.000000	.000000	
275	.000000	-58.731788	-56.272984
.000000	.000000	.000000	
276	.000000	-48.130031	-41.770252
.000000	.000000	.000000	
277	.000000	-10.679715	-34.307160
.000000	.000000	.000000	
278	.000000	-11.178236	-49.490661
.000000	.000000	.000000	
279	-10.063089	-12.070665	-70.758267
.000000	.000000	.000000	
280	.000000	-14.808304	-79.215619
.000000	.000000	.000000	
281	.000000	-14.196233	-45.667500
.000000	.000000	.000000	
282	.000000	-8.912089	-31.649275
.000000	.000000	.000000	
283	.000000	.000000	-46.550482
.000000	.000000	.000000	
284	.000000	.000000	-64.424295
.000000	.000000	.000000	
285	-34.717373	.000000	-100.091889
.000000	.000000	.000000	
286	.000000	.000000	-113.192629
.000000	.000000	.000000	
287	.000000	.000000	-61.110923
.000000	.000000	.000000	
288	.000000	.000000	-37.478564
.000000	.000000	.000000	

COMB DL-G3-2 ------------------ MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	66.613906	19.373091
.000000	.000000	.000000	
272	.000000	109.640273	37.235112
.000000	.000000	.000000	
273	46.175157	113.870675	43.595149
.000000	.000000	.000000	
274	.000000	118.663721	38.396617
.000000	.000000	.000000	
275	.000000	115.043561	46.571080
.000000	.000000	.000000	
276	.000000	66.414269	17.513505
.000000	.000000	.000000	
277	.000000	34.275599	348.391799
.000000	.000000	.000000	
278	.000000	46.284836	739.378826
.000000	.000000	.000000	
279	20.152121	49.854310	756.347676

.000000	.000000	.000000	
280	.000000	54.589825	752.331879
.000000	.000000	.000000	
281	.000000	73.394913	780.725175
.000000	.000000	.000000	
282	.000000	60.727411	375.442019
.000000	.000000	.000000	
283	.000000	.000000	692.868250
.000000	.000000	.000000	
284	.000000	.000000	1499.036
.000000	.000000	.000000	
285	43.771880	.000000	1532.894
.000000	.000000	.000000	
286	.000000	.000000	1529.730
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
287	.000000	.000000	1596.402
.000000	.000000	.000000	
288	.000000	.000000	752.766472
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-32.747936	-86.575505
.000000	.000000	.000000	
272	.000000	-47.134137	-135.440759
.000000	.000000	.000000	
273	-45.695938	-51.632824	-153.280869
.000000	.000000	.000000	
274	.000000	-56.265471	-164.327196
.000000	.000000	.000000	
275	.000000	-76.610110	-134.991308
.000000	.000000	.000000	
276	.000000	-57.987844	-91.380260
.000000	.000000	.000000	
277	.000000	-67.817884	-50.249402
.000000	.000000	.000000	
278	.000000	-109.442959	-72.439142
.000000	.000000	.000000	
279	-19.504952	-112.665330	-109.720757
.000000	.000000	.000000	
280	.000000	-116.221073	-127.251170
.000000	.000000	.000000	
281	.000000	-114.726879	-63.621459
.000000	.000000	.000000	
282	.000000	-67.767614	-43.414175
.000000	.000000	.000000	
283	.000000	.000000	-76.708976
.000000	.000000	.000000	
284	.000000	.000000	-107.320409
.000000	.000000	.000000	
285	-45.068936	.000000	-165.750928
.000000	.000000	.000000	
286	.000000	.000000	-187.907553
.000000	.000000	.000000	
287	.000000	.000000	-101.875399
.000000	.000000	.000000	
288	.000000	.000000	-60.785717
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	43.674326	95.858425
.000000	.000000	.000000	
272	.000000	63.048042	217.696586
.000000	.000000	.000000	
273	43.785884	65.478249	229.771448
.000000	.000000	.000000	
274	.000000	70.718988	223.546500
.000000	.000000	.000000	
275	.000000	79.943283	252.642181
.000000	.000000	.000000	
276	.000000	48.677919	107.459308
.000000	.000000	.000000	
277	.000000	60.091252	673.138843
.000000	.000000	.000000	
278	.000000	92.159976	1388.728
.000000	.000000	.000000	
279	32.226905	94.836125	1416.014
.000000	.000000	.000000	
280	.000000	99.344508	1410.606
.000000	.000000	.000000	
281	.000000	129.798286	1449.941
.000000	.000000	.000000	
282	.000000	87.960526	718.632803
.000000	.000000	.000000	
283	.000000	.000000	653.282907
.000000	.000000	.000000	
284	.000000	.000000	1445.177
.000000	.000000	.000000	
285	47.907197	.000000	1481.957
.000000	.000000	.000000	
286	.000000	.000000	1478.034
.000000	.000000	.000000	
287	.000000	.000000	1553.876
.000000	.000000	.000000	
288	.000000	.000000	709.790518
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

COMB DL-G3-3 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-58.723499	-94.993025
.000000	.000000	.000000	
272	.000000	-93.756713	-139.991647
.000000	.000000	.000000	
273	-47.617922	-97.193160	-174.495810
.000000	.000000	.000000	
274	.000000	-101.499824	-193.273918
.000000	.000000	.000000	
275	.000000	-134.467927	-137.574711
.000000	.000000	.000000	
276	.000000	-85.346964	-93.409192
.000000	.000000	.000000	
277	.000000	-44.561128	-68.795368
.000000	.000000	.000000	
278	.000000	-62.082539	-100.456445
.000000	.000000	.000000	
279	-30.415106	-63.454682	-152.348240
.000000	.000000	.000000	
280	.000000	-66.944355	-176.460910
.000000	.000000	.000000	
281	.000000	-79.403155	-86.660870
.000000	.000000	.000000	
282	.000000	-49.356748	-61.390358
.000000	.000000	.000000	
283	.000000	.000000	-89.135697
.000000	.000000	.000000	
284	.000000	.000000	-128.932193
.000000	.000000	.000000	
285	-49.092982	.000000	-197.224311
.000000	.000000	.000000	
286	.000000	.000000	-225.572471
.000000	.000000	.000000	
287	.000000	.000000	-122.803173
.000000	.000000	.000000	
288	.000000	.000000	-68.316198
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	53.308996	323.740838
.000000	.000000	.000000	
272	.000000	59.615131	695.797264
.000000	.000000	.000000	
273	58.657060	62.174411	716.178967
.000000	.000000	.000000	
274	.000000	67.915779	709.134348
.000000	.000000	.000000	
275	.000000	88.034045	757.362924
.000000	.000000	.000000	
276	.000000	79.251621	352.730272
.000000	.000000	.000000	
277	.000000	111.198526	704.547533
.000000	.000000	.000000	
278	.000000	184.736179	1474.428
.000000	.000000	.000000	
279	33.567815	189.341688	1506.383
.000000	.000000	.000000	
280	.000000	193.960585	1500.863
.000000	.000000	.000000	
281	.000000	225.123314	1542.838
.000000	.000000	.000000	
282	.000000	141.381220	762.447174
.000000	.000000	.000000	
283	.000000	.000000	550.524057
.000000	.000000	.000000	
284	.000000	.000000	1213.036
.000000	.000000	.000000	
285	57.207583	.000000	1245.767
.000000	.000000	.000000	
286	.000000	.000000	1240.285
.000000	.000000	.000000	
287	.000000	.000000	1307.069
.000000	.000000	.000000	
288	.000000	.000000	593.848430
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-110.664960	-110.336850
.000000	.000000	.000000	
272	.000000	-186.116230	-154.756315
.000000	.000000	.000000	
273	-65.152771	-190.763835	-205.525015
.000000	.000000	.000000	
274	.000000	-194.836002	-229.011058
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
275	.000000	-230.380170	-151.630600
.000000	.000000	.000000	
276	.000000	-139.945338	-102.621039
.000000	.000000	.000000	
277	.000000	-53.264811	-76.600793
.000000	.000000	.000000	
278	.000000	-59.149226	-114.092418
.000000	.000000	.000000	
279	-31.165511	-61.096133	-172.235335
.000000	.000000	.000000	
280	.000000	-65.113227	-199.794300
.000000	.000000	.000000	
281	.000000	-87.251619	-96.282414
.000000	.000000	.000000	
282	.000000	-78.399321	-71.042379
.000000	.000000	.000000	
283	.000000	.000000	-109.816871
.000000	.000000	.000000	
284	.000000	.000000	-153.224419
.000000	.000000	.000000	
285	-58.285184	.000000	-216.770738
.000000	.000000	.000000	
286	.000000	.000000	-244.757675
.000000	.000000	.000000	
287	.000000	.000000	-149.483172
.000000	.000000	.000000	
288	.000000	.000000	-96.949367
.000000	.000000	.000000	

COMB DB ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	112.264942	728.428434
.000000	.000000	.000000	
272	.000000	99.199980	797.056977
.000000	.000000	.000000	
273	49.112818	98.460978	796.399381
.000000	.000000	.000000	
274	.000000	100.755272	796.597681
.000000	.000000	.000000	
275	.000000	120.301879	805.341957
.000000	.000000	.000000	
276	.000000	141.201561	736.085310
.000000	.000000	.000000	
277	.000000	111.538008	803.430466
.000000	.000000	.000000	
278	.000000	145.257251	918.171891
.000000	.000000	.000000	
279	29.519286	142.327967	920.275555
.000000	.000000	.000000	
280	.000000	146.762420	920.204636
.000000	.000000	.000000	
281	.000000	160.020264	927.362856
.000000	.000000	.000000	
282	.000000	130.476803	812.857058
.000000	.000000	.000000	
283	.000000	.000000	681.632495
.000000	.000000	.000000	
284	.000000	.000000	757.337769
.000000	.000000	.000000	
285	44.522883	.000000	757.090599
.000000	.000000	.000000	
286	.000000	.000000	757.139271
.000000	.000000	.000000	
287	.000000	.000000	770.442290
.000000	.000000	.000000	
288	.000000	.000000	688.718182
.000000	.000000	.000000	

COMB DB ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-111.267396	-93.622433
.000000	.000000	.000000	
272	.000000	-145.583172	-113.369249
.000000	.000000	.000000	
273	-49.205717	-143.335233	-116.698492
.000000	.000000	.000000	
274	.000000	-147.191205	-125.083788
.000000	.000000	.000000	
275	.000000	-163.922261	-112.000464
.000000	.000000	.000000	
276	.000000	-129.168537	-84.891819
.000000	.000000	.000000	
277	.000000	-111.460898	-56.372159
.000000	.000000	.000000	
278	.000000	-99.563762	-82.893927
.000000	.000000	.000000	
279	-29.566214	-98.645359	-84.980388
.000000	.000000	.000000	
280	.000000	-101.003365	-95.251342
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
281	.000000	-119.098599	-72.765336
.000000	.000000	.000000	
282	.000000	-139.949873	-50.773403
.000000	.000000	.000000	
283	.000000	.000000	-83.415280
.000000	.000000	.000000	
284	.000000	.000000	-99.146025
.000000	.000000	.000000	
285	-44.663094	.000000	-100.420638
.000000	.000000	.000000	
286	.000000	.000000	-108.384199
.000000	.000000	.000000	
287	.000000	.000000	-99.535317
.000000	.000000	.000000	
288	.000000	.000000	-85.303795
.000000	.000000	.000000	

COMB DL ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	123.490512	745.697751
.000000	.000000	.000000	
272	.000000	141.408821	1564.612
.000000	.000000	.000000	
273	76.989571	146.848439	1595.970
.000000	.000000	.000000	
274	.000000	152.098478	1590.802
.000000	.000000	.000000	
275	.000000	173.324482	1659.836
.000000	.000000	.000000	
276	.000000	175.053570	807.530712
.000000	.000000	.000000	
277	.000000	111.198526	780.246211
.000000	.000000	.000000	
278	.000000	184.736179	1621.222
.000000	.000000	.000000	
279	37.052148	189.341688	1656.330
.000000	.000000	.000000	
280	.000000	193.960585	1651.552
.000000	.000000	.000000	
281	.000000	225.123314	1686.609
.000000	.000000	.000000	
282	.000000	141.381220	847.032329
.000000	.000000	.000000	
283	.000000	.000000	692.868250
.000000	.000000	.000000	
284	.000000	.000000	1499.036
.000000	.000000	.000000	
285	57.207583	.000000	1532.894
.000000	.000000	.000000	
286	.000000	.000000	1529.730
.000000	.000000	.000000	
287	.000000	.000000	1596.402
.000000	.000000	.000000	
288	.000000	.000000	752.766472
.000000	.000000	.000000	

COMB DL ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-110.664960	-122.112418
.000000	.000000	.000000	
272	.000000	-186.116230	-167.366985
.000000	.000000	.000000	
273	-73.002033	-190.763835	-233.664173
.000000	.000000	.000000	
274	.000000	-194.836002	-260.989771
.000000	.000000	.000000	
275	.000000	-230.380170	-161.572553
.000000	.000000	.000000	
276	.000000	-139.945338	-106.067725
.000000	.000000	.000000	
277	.000000	-121.949622	-76.960337
.000000	.000000	.000000	
278	.000000	-141.787104	-118.343711
.000000	.000000	.000000	
279	-38.094426	-146.889969	-177.342005
.000000	.000000	.000000	
280	.000000	-150.711250	-206.168433
.000000	.000000	.000000	
281	.000000	-173.340439	-97.665595
.000000	.000000	.000000	
282	.000000	-172.429207	-74.872271
.000000	.000000	.000000	
283	.000000	.000000	-114.106935
.000000	.000000	.000000	
284	.000000	.000000	-159.708128
.000000	.000000	.000000	
285	-58.285184	.000000	-216.770738
.000000	.000000	.000000	
286	.000000	.000000	-244.757675
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

JOINT	F1	F2	F3
M1	M2	M3	
287	.000000	.000000	-162.545245
.000000	.000000	.000000	
288	.000000	.000000	-114.113445
.000000	.000000	.000000	

COMB CAR ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	123.490512	745.697751
.000000	.000000	.000000	
272	.000000	141.408821	1564.612
.000000	.000000	.000000	
273	76.989571	146.848439	1595.970
.000000	.000000	.000000	
274	.000000	152.098478	1590.802
.000000	.000000	.000000	
275	.000000	173.324482	1659.836
.000000	.000000	.000000	
276	.000000	175.053570	807.530712
.000000	.000000	.000000	
277	.000000	111.538008	803.430466
.000000	.000000	.000000	
278	.000000	184.736179	1621.222
.000000	.000000	.000000	
279	37.052148	189.341688	1656.330
.000000	.000000	.000000	
280	.000000	193.960585	1651.552
.000000	.000000	.000000	
281	.000000	225.123314	1686.609
.000000	.000000	.000000	
282	.000000	141.381220	847.032329
.000000	.000000	.000000	
283	.000000	.000000	692.868250
.000000	.000000	.000000	
284	.000000	.000000	1499.036
.000000	.000000	.000000	
285	57.207583	.000000	1532.894
.000000	.000000	.000000	
286	.000000	.000000	1529.730
.000000	.000000	.000000	
287	.000000	.000000	1596.402
.000000	.000000	.000000	
288	.000000	.000000	752.766472
.000000	.000000	.000000	

COMB CAR ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-111.267396	-122.112418
.000000	.000000	.000000	
272	.000000	-186.116230	-167.366985
.000000	.000000	.000000	
273	-73.002033	-190.763835	-233.664173
.000000	.000000	.000000	
274	.000000	-194.836002	-260.989771
.000000	.000000	.000000	
275	.000000	-230.380170	-161.572553
.000000	.000000	.000000	
276	.000000	-139.945338	-106.067725
.000000	.000000	.000000	
277	.000000	-121.949622	-76.960337
.000000	.000000	.000000	
278	.000000	-141.787104	-118.343711
.000000	.000000	.000000	
279	-38.094426	-146.889969	-177.342005
.000000	.000000	.000000	
280	.000000	-150.711250	-206.168433
.000000	.000000	.000000	
281	.000000	-173.340439	-97.665595
.000000	.000000	.000000	
282	.000000	-172.429207	-74.872271
.000000	.000000	.000000	
283	.000000	.000000	-114.106935
.000000	.000000	.000000	
284	.000000	.000000	-159.708128
.000000	.000000	.000000	
285	-58.285184	.000000	-216.770738
.000000	.000000	.000000	
286	.000000	.000000	-244.757675
.000000	.000000	.000000	
287	.000000	.000000	-162.545245
.000000	.000000	.000000	
288	.000000	.000000	-114.113445
.000000	.000000	.000000	

RESTRAINT FORCES (REACTIONS)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

COMB DESIGN ---------- MAX

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	123.490512	745.697751
.000000	.000000	.000000	
272	.000000	141.408821	1564.612
.000000	.000000	.000000	
273	76.989571	146.848439	1595.970
.000000	.000000	.000000	
274	.000000	152.098478	1590.802
.000000	.000000	.000000	
275	.000000	173.324482	1659.836
.000000	.000000	.000000	
276	.000000	175.053570	807.530712
.000000	.000000	.000000	
277	.000000	111.538008	803.430466
.000000	.000000	.000000	
278	.000000	184.736179	1621.222
.000000	.000000	.000000	
279	37.052148	189.341688	1656.330
.000000	.000000	.000000	
280	.000000	193.960585	1651.552
.000000	.000000	.000000	
281	.000000	225.123314	1686.609
.000000	.000000	.000000	
282	.000000	141.381220	847.032329
.000000	.000000	.000000	
283	.000000	.000000	692.868250
.000000	.000000	.000000	
284	.000000	.000000	1499.036
.000000	.000000	.000000	
285	57.207583	.000000	1532.894
.000000	.000000	.000000	
286	.000000	.000000	1529.730
.000000	.000000	.000000	
287	.000000	.000000	1596.402
.000000	.000000	.000000	
288	.000000	.000000	752.766472
.000000	.000000	.000000	

COMB DESIGN ---------- MIN

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-111.267396	-122.112418
.000000	.000000	.000000	
272	.000000	-186.116230	-167.366985
.000000	.000000	.000000	
273	-73.002033	-190.763835	-233.664173
.000000	.000000	.000000	
274	.000000	-194.836002	-260.989771
.000000	.000000	.000000	
275	.000000	-230.380170	-161.572553
.000000	.000000	.000000	
276	.000000	-139.945338	-106.067725
.000000	.000000	.000000	
277	.000000	-121.949622	-76.960337
.000000	.000000	.000000	
278	.000000	-141.787104	-118.343711
.000000	.000000	.000000	
279	-38.094426	-146.889969	-177.342005
.000000	.000000	.000000	
280	.000000	-150.711250	-206.168433
.000000	.000000	.000000	
281	.000000	-173.340439	-97.665595
.000000	.000000	.000000	
282	.000000	-172.429207	-74.872271
.000000	.000000	.000000	
283	.000000	.000000	-114.106935
.000000	.000000	.000000	
284	.000000	.000000	-159.708128
.000000	.000000	.000000	
285	-58.285184	.000000	-216.770738
.000000	.000000	.000000	
286	.000000	.000000	-244.757675
.000000	.000000	.000000	
287	.000000	.000000	-162.545245
.000000	.000000	.000000	
288	.000000	.000000	-114.113445
.000000	.000000	.000000	

FRAME ELEMENT INTERNAL FORCES

ELEM 1 ========== LENGTH = 4.489314

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.856477	24.820336	14.438404
47.616110	1.532531	1.687088	
0.25000	1.856477	24.822472	14.438404
47.616110	3.086314	480.299987	
0.50000	1.856477	32.975328	14.438404
47.616110	7.082764	889.840762	
0.75000	1.856477	49.873565	14.438404
47.616110	11.086181	1231.108	
1.00000	1.856477	66.575405	14.438404
47.616110	15.091786	1513.811	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.180625	-470.182907	-3.571297
-481.980912	-0.997093	-8.369320	
0.25000	-9.180625	-433.920063	-3.571297
-481.980912	-14.808227	-27.689195	

```
 0.50000    -9.180625 -399.583800   -3.571297
-481.980912  -31.012858  -55.544554
 0.75000    -9.180625 -367.836393   -3.571297
-481.980912  -47.217491  -83.400083
 1.00000    -9.180625 -338.900978   -3.571297
-481.980912  -63.422123 -111.255654

 COMB DB-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.929879   43.405559   15.769136
154.734433    2.399077   12.697392
 0.25000   11.929879   43.408182   15.769136
154.734433   28.812600  703.178973
 0.50000   11.929879   58.631097   15.769136
154.734433   58.711826 1309.674
 0.75000   11.929879   79.990057   15.769136
154.734433   88.620580 1832.510
 1.00000   11.929879  104.669370   15.769136
154.734433  118.529033 2283.502

 COMB DB-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.733910  -669.878648  -26.652213
-556.343466   -1.323715   -8.814199
 0.25000   -9.733910  -625.174229  -26.652213
-556.343466  -16.098668  -48.494108
 0.50000   -9.733910  -583.120457  -26.652213
-556.343466  -33.795318  -97.205175
 0.75000   -9.733910  -544.224450  -26.652213
-556.343466  -51.493469 -145.918632
 1.00000   -9.733910  -508.747941  -26.652213
-556.343466  -69.191620 -194.632201

 COMB DB-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.771924   55.945461   14.569907
296.522496    2.992183   9.066296
 0.25000    8.771924   55.947834   14.569907
296.522496   21.084775  722.910279
 0.50000    8.771924   70.292456   14.569907
296.522496   42.193236 1357.509
 0.75000    8.771924   89.909167   14.569907
296.522496   63.309905 1915.468
 1.00000    8.771924  112.839114   14.569907
296.522496   84.426577 2407.612

 COMB DB-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.757100  -684.092593  -18.818193
-493.386925   -1.563799   -8.071768
 0.25000   -8.757100  -643.116921  -18.818193
-493.386925  -15.313756  -82.751732
 0.50000   -8.757100  -604.593401  -18.818193
-493.386925  -31.658241 -125.539202
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                356

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000   -8.757100  -568.961193  -18.818193
-493.386925  -48.010307 -188.327201
 1.00000   -8.757100  -536.462447  -18.818193
-493.386925  -64.362372 -251.115200

 COMB DB-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.792440   58.712455   25.674948
389.447478    3.131076   8.092237
 0.25000    7.792440   58.714433   25.674948
389.447478   19.328857  639.221304
 0.50000    7.792440   70.684954   25.674948
389.447478   38.245061 1205.387
 0.75000    7.792440   87.040260   25.674948
389.447478   57.177665 1707.662
 1.00000    7.792440  106.165781   25.674948
389.447478   76.115291 2155.074

 COMB DB-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -12.809413 -603.395519  -16.877407
-429.056718  -1.878675   -7.843299
 0.25000  -12.809413 -569.234756  -16.877407
-429.056718  -27.662214  -66.110866
 0.50000  -12.809413 -537.118985  -16.877407
-429.056718  -56.471347 -132.004099
 0.75000  -12.809413 -507.413563  -16.877407
-429.056718  -85.287066 -197.897772
 1.00000  -12.809413 -480.320435  -16.877407
-429.056718 -114.102793 -263.791445

 COMB DB-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.398415   20.892573    1.212521
162.753617    0.961598   12.458355
 0.25000   11.398415   20.898290    1.212521
162.711095   29.128121  174.337774
 0.50000   11.398415   20.908498    1.212521
162.673302   58.259490  341.457776
 0.75000   11.398415   20.918222    1.212521
162.643299   87.389623  508.626486
 1.00000   11.398415   20.935983    1.212521
162.620727  116.521784  675.766743

 COMB DB-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.462516 -149.030196  -25.956003
-37.374001   -0.302832   -0.552660
 0.25000   -0.462516 -149.011909  -25.956003
-37.403560   -1.444146  -23.470841
 0.50000   -0.462516 -148.995226  -25.956003
-37.434365   -2.585486  -46.389396
 0.75000   -0.462516 -148.979772  -25.956003
-37.462612   -4.165334  -70.362601
 1.00000   -0.462516 -148.965694  -25.956003
-37.508239   -5.526181  -93.808807

 COMB DB-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.245821   38.271461   11.445293
346.157782    1.856736    8.884844
 0.25000    8.245821   38.277178   11.445293
346.115260   21.715218  247.939739
 0.50000    8.245821   38.287386   11.445293
346.077468   42.257511  490.729514
 0.75000    8.245821   38.297110   11.445293
346.047465   62.813423  733.486034
 1.00000    8.245821   38.314871   11.445293
346.024892   83.369887  976.219816

 COMB DB-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.625302 -216.395131  -18.323036
-36.584749   -0.845332   -5.280880
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                357

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   -4.625302 -216.376844  -18.323036
-36.614308  -13.077286  -43.216544
 0.50000   -4.625302 -216.360161  -18.323036
-36.645112  -25.922046  -86.169089
 0.75000   -4.625302 -216.344707  -18.323036
-36.673360  -38.767341 -129.122241
 1.00000   -4.625302 -216.330629  -18.323036
-36.718987  -51.612720 -172.075393

 COMB DB-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.040547   53.992834   16.753788
403.015944    2.763231   10.793437
 0.25000   10.040547   55.966914   16.753788
365.679114   28.511506  601.289374
 0.50000   10.040547   73.488280   16.753788
338.051347   55.681849 1125.987
 0.75000   10.040547   90.146495   16.753788
338.051347   82.871149 1589.528
 1.00000   10.040547  114.924347   16.753788
338.051347  110.060947 2000.634

 COMB DB-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.252398  -562.970350  -24.227246
-290.735950   -1.420719   -8.269464
 0.25000   -8.252398  -529.851120  -24.227246
-290.735950  -18.091523  -60.706499
 0.50000   -8.252398  -499.139287  -24.227246
-290.735950  -36.886863 -121.302682
 0.75000   -8.252398  -470.712508  -24.227246
-320.797724  -55.689960 -181.899294
 1.00000   -8.252398  -444.799665  -24.227246
-352.815117  -74.493197 -242.495906

 COMB DB-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    9.208175   56.704808   18.660508
473.066925    2.909349    9.833959
 0.25000    9.208175   58.349090   18.660508
441.967745   26.275081  532.026088
 0.50000    9.208175   72.943262   18.660508
418.955590   50.919150  999.696494
 0.75000    9.208175   86.818485   18.660508
418.955590   75.575129 1416.442
 1.00000    9.208175  107.456843   18.660508
418.955590  100.231433 1789.521

 COMB DB-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.498051  -496.230001  -21.974156
-264.343666   -1.806213   -8.717289
 0.25000   -8.498051  -468.643810  -21.974156
-264.343666  -20.172819  -63.996498
 0.50000   -8.498051  -443.062826  -21.974156
-264.343666  -41.107252 -127.636657
 0.75000   -8.498051  -419.385163  -21.974156
-289.383191  -62.048195 -191.277177
 1.00000   -8.498051  -397.801412  -21.974156
-316.051623  -82.989320 -254.917696

 COMB DB-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.051391   17.631278    2.090626
205.131661    0.899379    2.119479
 0.25000    2.051391   17.637029    2.090626
205.089081    5.102008   44.937802
 0.50000    2.051391   17.647233    2.090626
205.051238    9.443513   87.916886
 0.75000    2.051391   17.656962    2.090626
205.020967   13.785189  130.875456
 1.00000    2.051391   17.674748    2.090626
204.998358   18.126944  173.807573
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                358

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.580527  -38.360291   -3.870729
-36.614771   -0.977622   -0.761935
 0.25000   -0.580527  -38.342000   -3.870729
-36.644605   -2.899236  -20.196753
 0.50000   -0.580527  -38.325315   -3.870729
-36.675457   -5.020676  -39.631631
 0.75000   -0.580527  -38.309859   -3.870729
-36.703751   -7.166384  -59.772917
 1.00000   -0.580527  -38.295779   -3.870729
-36.749751   -9.319309  -79.561002

 COMB DB-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.510073   32.602883   22.055420
375.026670    1.685772    2.705648
 0.25000    2.510073   32.608599   22.055420
374.984148    7.067283  101.853028
 0.50000    2.510073   32.618808   22.055420
374.946355   12.990006  203.053781
 0.75000    2.510073   32.628532   22.055420
374.916352   18.898520  304.221279
 1.00000    2.510073   32.646293   22.055420
374.893780   24.807994  405.367284

 COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.062628  -90.242101   -5.267330
-52.613964   -1.574534   -9.072920
 0.25000   -8.062628  -90.223813   -5.267330
-52.643523  -23.824277  -37.250858
 0.50000   -8.062628  -90.207131   -5.267330
-52.674327  -48.570918  -73.841978
 0.75000   -8.062628  -90.191677   -5.267330
-52.702575  -73.324676 -110.433122
 1.00000   -8.062628  -90.177598   -5.267330
-52.748202  -98.078103 -147.024267

 COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.630161   46.758776   12.783278
482.265676    2.333658    4.778019
 0.25000    4.630161   46.763921   12.783278
482.227406   12.235977  206.961430
 0.50000    4.630161   46.773109   12.783278
482.193393   22.629817  410.456283
 0.75000    4.630161   46.781860   12.783278
482.166390   33.030112  613.921207
 1.00000    4.630161   46.797845   12.783278
482.146075   43.430865  817.365297

 COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.032100 -181.375314   -9.273374
-45.746819   -1.669443   -4.743395
 0.25000   -4.032100 -181.358856   -9.273374
-45.773422  -14.069768  -53.155810
 0.50000   -4.032100 -181.343841   -9.273374
-45.801146  -28.400793 -105.634477
 0.75000   -4.032100 -181.329933   -9.273374
-45.826569  -42.746739 -158.113184
 1.00000   -4.032100 -181.317262   -9.273374
-45.867633  -57.093776 -210.591891

 COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.598627   55.001226   13.419567
536.124169    2.757553   12.317162
 0.25000   11.598627   58.544187   13.419567
502.774084   31.414604  435.641839
 0.50000   11.598627   68.880765   13.419567
478.942110   61.215107  822.692214
 0.75000   11.598627   78.717266   13.419567
456.580027   91.024246 1174.902
 1.00000   11.598627   95.066433   13.419567
451.409086  120.834074 1497.270
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                359

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.109137  -399.513833   -26.568548
-171.702270   -1.796988   -5.422737
 0.25000   -5.109137  -380.501015   -26.568548
-174.347619  -14.345785  -62.204496
 0.50000   -5.109137  -363.013842   -26.568548
-202.251038  -29.386889 -123.932650
 0.75000   -5.109137  -346.821197   -26.568548
-227.558248  -44.446041 -185.661628
 1.00000   -5.109137  -332.065221   -26.568548
-249.967470  -59.507200 -247.390407

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.682412   34.618121   20.327294
65.879940    2.411456    2.232929
 0.25000    2.682412   38.158030   20.327294
67.185310    4.706635  381.238810
 0.50000    2.682412   54.442958   20.327294
67.230155   10.630283  726.482080
 0.75000    2.682412   71.274002   20.327294
67.230155   16.556369 1030.392
 1.00000    2.682412   88.215191   20.327294
67.230155   22.483248 1295.903

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -12.189283  -428.296602   -5.283243
-568.511621   -1.297873  -10.503511
 0.25000  -12.189283  -395.569461   -5.283243
-562.069473   -7.502299  -36.922285
 0.50000  -12.189283  -364.520080   -5.283243
-554.366799  -43.310183  -73.246244
 0.75000  -12.189283  -335.578533   -5.283243
-546.619281  -66.122880 -109.519806
 1.00000  -12.189283  -308.888839   -5.283243
-538.871763  -88.935968 -145.872990

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.798142   60.590200   21.129370
165.696721    3.532315   10.546479
 0.25000   11.798142   67.947446   21.129370
165.837707   28.617161  574.497066
 0.50000   11.798142   88.104338   21.129370
165.837707   58.416716 1097.110
 0.75000   11.798142  108.924212   21.129370
165.837707   88.238972 1570.049
 1.00000   11.798142  129.918650   21.129370
165.837707  118.066024 1996.510

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -12.820332  -623.979015   -26.580619
-642.491900  -11.043737  -10.994116
 0.25000  -12.820332  -584.842844   -26.580619
-639.650990  -21.049077  -64.620538
 0.50000  -12.820332  -547.894604   -26.580619
-636.669095  -44.737748 -128.213289
 0.75000  -12.820332  -513.397048   -26.580619
-633.687199  -68.426419 -193.937228
 1.00000  -12.820332  -481.654357   -26.580619
-630.705334  -92.153561 -258.386804

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    9.667266   78.900959   20.807698
325.204274    4.468234    8.731773
 0.25000    9.667266   85.933865   20.807698
325.283541   24.727731  613.530175
 0.50000    9.667266  104.472500   20.807698
325.283541   49.122326 1179.455
 0.75000    9.667266  123.621495   20.807698
325.283541   73.534425 1699.808
 1.00000    9.667266  142.933573   20.807698
325.283541   97.949641 2177.526
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                360

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -12.157620  -657.463839   -21.757849
-571.703700   -2.263657  -10.677130
 0.25000  -12.157620  -621.594679   -21.757849
-569.626444  -21.452717  -84.277894
 0.50000  -12.157620  -587.735806   -21.757849
-567.469921  -44.781342 -167.144432
 0.75000  -12.157620  -556.127618   -21.757849
-565.313399  -68.127334 -250.979576
 1.00000  -12.157620  -527.034558   -21.757849
-563.156898  -91.476758 -334.985925

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.563929   82.213899   27.855872
431.675478    4.910533    7.836738
 0.25000    8.563929   88.076146   27.855872
431.741551   23.053517  550.824467
 0.50000    8.563929  103.528942   27.855872
431.741551   45.007557 1062.890
 0.75000    8.563929  119.490500   27.855872
431.741551   66.984876 1537.014
 1.00000    8.563929  135.587996   27.855872
431.741551   88.966098 1975.628

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -14.208867  -587.682406   -19.592597
-498.299746   -2.691994  -12.828066
 0.25000  -14.208867  -557.783788   -19.592597
-496.568259   -29.922647  -90.612521
 0.50000  -14.208867  -529.560919   -19.592597
-494.770699   -61.154351 -177.303797
 0.75000  -14.208867  -503.214056   -19.592597
-492.973139   -92.408434 -264.849610
 1.00000  -14.208867  -478.963667   -19.592597
-491.175598  -123.665318 -352.550725

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    9.959182   28.990890    1.642553
158.516346    1.186979    9.218219
 0.25000    9.959182   28.997139    1.642553
158.496046   26.770226  167.672261
 0.50000    9.959182   29.003749    1.642553
158.477603   53.047053  328.363856
 0.75000    9.959182   29.010582    1.642553
158.461218   79.340616  489.052461
 1.00000    9.959182   29.017551    1.642553
158.447074  105.638023  649.732383

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.649012 -161.235586  -23.434308
-38.009707   -0.504577   -0.738319
 0.25000   -0.649012 -161.224860  -23.434308
-38.027585   -1.988458  -30.905283
 0.50000   -0.649012 -161.214810  -23.434308
-38.046217   -3.812967  -61.341878
 0.75000   -0.649012 -161.205510  -23.434308
-38.065288   -5.647348  -92.808542
 1.00000   -0.649012 -161.197075  -23.434308
-38.084490   -7.488595 -124.349737

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.657479   53.777192   10.217385
366.273244    2.715264    7.216409
 0.25000    7.657479   53.783441   10.217385
366.252936   22.467226  248.324626
 0.50000    7.657479   53.790053   10.217385
366.234486   42.870505  491.742816
 0.75000    7.657479   53.796886   10.217385
366.218093   63.298767  735.195596
 1.00000    7.657479   53.803856   10.217385
366.203943   83.731111  978.662909
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                361

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.010040  -242.835644   -18.209456
-40.091018   -1.354646   -4.057139
 0.25000   -4.010040  -242.824918   -18.209456
-40.108902   -12.216640  -59.995642
 0.50000   -4.010040  -242.814868   -18.209456
-40.127541   -23.660209 -117.040123
 0.75000   -4.010040  -242.805567   -18.209456
-40.146618   -35.119602 -175.087325
 1.00000   -4.010040  -242.797132   -18.209456
-40.165828   -46.581931 -233.242381

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.528214   75.657923   17.005879
447.263694    4.110944    9.389548
 0.25000   10.528214   87.954526   17.005879
409.757707   29.181479  522.065044
 0.50000   10.528214  104.840515   17.005879
376.292087   57.024395  998.682880
 0.75000   10.528214  122.293330   17.005879
363.687066   84.887983 1436.497
 1.00000   10.528214  140.073355   17.005879
363.644658  112.755420 1838.340

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.700111  -553.790336  -24.839445
-319.991125   -2.080990   -8.277292
 0.25000   -8.700111  -523.891204  -24.839445
-324.536292  -18.353355  -83.614679
 0.50000   -8.700111  -495.763806  -24.839445
-331.867513  -37.414302 -166.433756
 0.75000   -8.700111  -469.577107  -24.839445
-366.623811  -56.489951 -249.134346
 1.00000   -8.700111  -445.660851  -24.839445
-402.734869  -75.570400 -333.622324

 COMB DL-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    9.638438   79.535498   18.560835
533.366062    4.638712    8.677583
 0.25000    9.638438   89.779456   18.560835
502.120867   27.485678  471.354697
 0.50000    9.638438  103.846704   18.560835
474.241591   52.875535  904.522933
 0.75000    9.638438  118.386159   18.560835
463.740698   78.290561 1305.375
 1.00000    9.638438  133.198202   18.560835
463.705369  103.708822 1676.259

 COMB DL-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.535364  -496.659366   -22.653710
-294.281744   -2.628120   -8.306464
 0.25000   -8.535364  -471.751231   -22.653710
-298.068196  -20.605193  -87.664771
 0.50000   -8.535364  -448.310979   -22.653710
-304.175632  -41.410759 -173.792422
 0.75000   -8.535364  -426.503668   -22.653710
-333.130138  -62.231637 -260.281753
 1.00000   -8.535364  -406.579700   -22.653710
-363.213255  -83.057501 -347.310175

 COMB DL-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.555656   25.002046    3.157656
240.023551    1.835193    2.498340
 0.25000    2.555656   25.008298    3.157656
240.003218    6.528878   54.044247
 0.50000    2.555656   25.014912    3.157656
239.984746   11.449533  105.706623
 0.75000    2.555656   25.021748    3.157656
239.968332   16.377121  157.353863
 1.00000    2.555656   25.028721    3.157656
239.954162   21.306630  208.991088
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                362

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.729967  -50.469294   -4.393803
-46.205787   -1.413285   -0.928278
 0.25000   -0.729967  -50.458567   -4.393803
-46.223690   -4.401358  -27.298651
 0.50000   -0.729967  -50.448516   -4.393803
-46.242347   -7.735885  -53.740670
 0.75000   -0.729967  -50.439215   -4.393803
```

```
-46.261444  -11.276071  -80.187775
 1.00000   -0.729967  -50.430782   -4.393803
-46.280674  -14.818098 -106.635628

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    2.779923   45.987419   19.567977
434.094710   3.249642    2.809703
 0.25000    2.779923   45.993664   19.567977
434.074442   3.060333    114.167931
 0.50000    2.779923   46.000272   19.567977
434.056030   15.637863   227.783804
 0.75000    2.779923   46.007101   19.567977
434.039673   22.238680   341.451066
 1.00000    2.779923   46.014067   19.567977
434.025555   28.843955   455.146132

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.960785 -111.686597   -5.891901
-65.563378   -2.284516   -6.786752
 0.25000   -6.960785 -111.675873   -5.891901
-65.581232   -22.746889   -54.679323
 0.50000   -6.960785 -111.665824   -5.891901
-65.599839   -44.678077 -104.333228
 0.75000   -6.960785 -111.656524   -5.891901
-65.618883   -66.629447 -154.084685
 1.00000   -6.960785 -111.648090   -5.891901
-65.638059   -88.582233 -203.858478

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.326588   65.842554   13.483269
538.728387   3.987735    5.229172
 0.25000    5.326588   65.910013   13.483269
538.509408   16.465115   221.420354
 0.50000    5.326588   65.981385   13.483269
538.310476   29.564685   438.778894
 0.75000    5.326588   66.055147   13.483269
538.133739   42.691632   656.022551
 1.00000    5.326588   66.130386   13.483269
537.981203   55.821009   873.157377

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.271845  -214.908749  -11.704715
-56.938685   -2.483145   -4.584915
 0.25000   -4.271845  -214.792929  -11.704715
-57.131570   -16.476160   -73.373709
 0.50000   -4.271845  -214.684392  -11.704715
-57.332592   -31.586451  -143.248133
 0.75000   -4.271845  -214.583957  -11.704715
-57.538345   -46.710915  -213.163562
 1.00000   -4.271845  -214.492861  -11.704715
-57.745516   -61.835895  -283.090005

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.332599   77.264872   14.708377
591.115105   4.484410   10.278347
 0.25000   11.332599   86.617942   14.708377
563.186809   31.872318   400.136693
 0.50000   11.332599   96.989887   14.708377
537.961104   61.144902   768.725910
 0.75000   11.332599  107.712956   14.708377
515.819251   90.439447   1114.364
 1.00000   11.332599  118.648977   14.708377
499.194061  119.738876   1438.665
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                363

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.755548  -413.115568  -26.117117
-189.230671   -2.655150   -5.800470
 0.25000   -5.755548  -395.600612  -26.117117
-204.661828   -16.911515   -85.924161
 0.50000   -5.755548  -379.150515  -26.117117
-231.052178   -33.388052  -170.450267
 0.75000   -5.755548  -363.892800  -26.117117
-258.007036   -49.864941   -255.593610
 1.00000   -5.755548  -350.005380  -26.117117
-285.005425   -66.385395  -341.145893

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.929879   58.712455   25.674948
536.124169   3.131076   12.697392
 0.25000   11.929879   58.714433   25.674948
502.774084   31.414604   722.910279
 0.50000   11.929879   73.488280   25.674948
482.193393   61.215107   1357.509
 0.75000   11.929879   90.146495   25.674948
482.166390   91.024246   1915.468
 1.00000   11.929879  114.924347   25.674948
482.146075  120.834074   2407.612

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.809413  -684.092593   -26.652213
-556.343466   -1.878575   -12.843299
 0.25000  -12.809413  -643.116921   -26.652213
-556.343466   -27.662214   -66.110866
 0.50000  -12.809413  -604.593401   -26.652213
-556.343466   -56.471347  -132.004099
 0.75000  -12.809413  -568.961193   -26.652213
-556.343466   -85.287066  -197.897772
 1.00000  -12.809413  -536.462447   -26.652213
-556.343466  -114.102793  -263.791445

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.798142   82.213899   27.855872
591.115105   4.910533   10.546479
 0.25000   11.798142   89.779456   27.855872
563.186809   31.872318   722.910279
 0.50000   11.798142  104.840515   27.855872
538.310476   61.144902   1179.455
 0.75000   11.798142  123.621495   27.855872
538.133739   90.439447   1699.808
 1.00000   11.798142  142.933573   27.855872
537.981203  119.738876   2177.526

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.208867  -657.463639   -26.580619
-642.491900   -2.691994   -12.828066
 0.25000  -14.208867  -621.594629   -26.580619
-639.650990   -29.922647   -90.612521
 0.50000  -14.208867  -587.735806   -26.580619
-636.669095   -61.154351  -177.303797
 0.75000  -14.208867  -556.127618   -26.580619
-633.687199   -92.408434  -264.849610
 1.00000  -14.208867  -527.034558   -26.580619
-630.705334  -123.665318  -352.550725

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.929879   82.213899   27.855872
591.115105   4.910533   12.697392
 0.25000   11.929879   89.779456   27.855872
563.186809   31.872318   722.910279
 0.50000   11.929879  104.840515   27.855872
538.310476   61.215107   1357.509
 0.75000   11.929879  123.621495   27.855872
538.133739   91.024246   1915.468
 1.00000   11.929879  142.933573   27.855872
537.981203  120.834074   2407.612
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                364

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.208867  -684.092593   -26.652213
-642.491900   -2.691994   -12.843299
 0.25000  -14.208867  -643.116921   -26.652213
-639.650990   -29.922647   -90.612521
 0.50000  -14.208867  -604.593401   -26.652213
-636.669095   -61.154351  -177.303797
 0.75000  -14.208867  -568.961193   -26.652213
-633.687199   -92.408434  -264.849610
 1.00000  -14.208867  -536.462447   -26.652213
-630.705334  -123.665318  -352.550725

 COMB      DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.929879   82.213899   27.855872
591.115105   4.910533   12.697392
 0.25000   11.929879   89.779456   27.855872
563.186809   31.872318   722.910279
 0.50000   11.929879  104.840515   27.855872
538.310476   61.215107   1357.509
 0.75000   11.929879  123.621495   27.855872
538.133739   91.024246   1915.468
 1.00000   11.929879  142.933573   27.855872
537.981203  120.834074   2407.612

 COMB      DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.208867  -684.092593   -26.652213
-642.491900   -2.691994   -12.843299
 0.25000  -14.208867  -643.116921   -26.652213
-639.650990   -29.922647   -90.612521
 0.50000  -14.208867  -604.593401   -26.652213
-636.669095   -61.154351  -177.303797
 0.75000  -14.208867  -568.961193   -26.652213
-633.687199   -92.408434  -264.849610
 1.00000  -14.208867  -536.462447   -26.652213
-630.705334  -123.665318  -352.550725

 ELEM      2 ================== LENGTH
 =    4.987379

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    2.325373   62.612511    0.611215
58.150489   14.002553   1515.491
 0.25000    2.325373   93.471430    0.611215
58.150489   13.421826   1777.865
 0.50000    2.325373  124.530499    0.611215
58.150489   12.841199   1979.101
 0.75000    2.325373  155.403025    0.611215
58.150489   12.260705   2125.373
 1.00000    2.325373  188.314173    0.611215
58.150489   11.680512   2225.350

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.773162  -351.328745   -11.512479
-523.069428   -62.057132  -111.473351
 0.25000   -9.773162  -319.880430   -11.512479
-523.069428   -49.860890  -138.233598
 0.50000   -9.773162  -289.301642   -11.512479
-523.069428   -39.070547  -164.993846
 0.75000   -9.773162  -260.670771   -11.512479
-523.069428   -31.511509  -191.754096
 1.00000   -9.773162  -234.954342   -11.512479
-523.069428   -25.217862  -218.514351

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.391779   87.890410    5.641955
147.821453  117.387849   2284.906
 0.25000   12.391779  126.172019    5.641955
147.821453  110.633778   2674.384
 0.50000   12.391779  164.666952    5.641955
147.821453  103.881201   3007.765
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                365

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000   12.391779  202.916219    5.641955
147.821453   97.128719   3285.432
 1.00000   12.391779  244.221951    5.641955
147.821453   90.828990   3508.908

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.481625  -516.771937   -13.259041
-636.063581   -67.587506  -194.940563
 0.25000  -10.481625  -476.992671   -13.259041
-636.063581   -55.147092  -242.903746
 0.50000  -10.481625  -439.030302   -13.259041
-636.063581   -44.098214  -290.866929
 0.75000  -10.481625  -403.709569   -13.259041
-636.063581   -34.622497  -338.830181
 1.00000  -10.481625  -371.461480   -13.259041
-636.063581   -26.673804  -386.793582

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.873831   96.113381    5.166934
294.735776   84.423289   2408.074
 0.25000    8.873831  131.216522    5.166934
294.735776   78.209154   2856.706
 0.50000    8.873831  166.515039    5.166934
294.735776   72.024438   3249.721
 0.75000    8.873831  201.586495    5.166934
294.735776   66.137562   3590.608
 1.00000    8.873831  239.502379    5.166934
294.735776   62.320380   3881.943

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.516575  -542.949678   -11.950630
-552.783513   -63.389828  -251.364412
 0.25000   -9.516575  -506.411885   -11.950630
-552.783513   -52.089179  -315.541881
 0.50000   -9.516575  -471.597663   -11.950630
-552.783513   -42.043409  -379.719351
 0.75000   -9.516575  -439.203555   -11.950630
-552.783513   -33.423682  -443.896822
 1.00000   -9.516575  -409.626189   -11.950630
-552.783513   -26.190547  -508.074299

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.802465   93.378565    6.838767
400.245742   76.611019   2154.745
 0.25000    7.802465  122.643926    6.838767
400.245742   70.377445   2577.128
 0.50000    7.802465  152.072164    6.838767
400.245742   64.316605   2953.221
 0.75000    7.802465  181.311048    6.838767
400.245742   58.487485   3285.927
 1.00000    7.802465  212.922563    6.838767
400.245742   54.573804   3577.479

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.499598  -491.681315   -12.311314
-483.088781  -113.071823  -263.885958
 0.25000  -13.499598  -461.218066   -12.311314
-483.088781  -100.864698  -333.914480
 0.50000  -13.499598  -432.193463   -12.311314
-483.088781   -89.703216  -403.943002
 0.75000  -13.499598  -405.186435   -12.311314
-483.088781   -79.892523  -473.972822
 1.00000  -13.499598  -380.527691   -12.311314
-483.088781   -71.960647  -544.005482

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.276314   21.205783    5.783128
140.622310  116.711837  675.207468
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                366

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000   11.276314   21.221829    5.783128
140.579987  109.517134  790.319326
 0.50000   11.276314   21.237957    5.783128
140.546216  102.324009  925.697630
 0.75000   11.276314   21.253952    5.783128
140.522978   95.132101   1072.044
 1.00000   11.276314   21.272227    5.783128
140.507882   87.943486   1222.349

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -0.452821  -125.890687   -0.735600
-73.586878   -5.626250   -93.866278
 0.25000   -0.452821  -125.872514   -0.735600
-73.621798   -5.444285  -118.409942
 0.50000   -0.452821  -125.856498   -0.735600
-73.659453   -5.269294  -142.954487
 0.75000   -0.452821  -125.841545   -0.735600
-73.698883   -5.098088  -167.499033
 1.00000   -0.452821  -125.827855   -0.735600
-73.746504   -4.935925  -192.043585

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.916856   39.033244    6.101409
335.955312   84.783108   974.764785
 0.25000    7.916856   39.049289    6.101409
335.912990   78.197630   1177.963
 0.50000    7.916856   39.065418    6.101409
335.879218   71.617818   1398.292
 0.75000    7.916856   39.081412    6.101409
335.855981   65.091729   1631.387
 1.00000    7.916856   39.099687    6.101409
335.840884   59.352815   1869.822

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.765485  -196.245252   -2.785762
-66.099806   -51.981163  -172.058087
 0.25000   -4.765485  -196.227049   -2.785762
-66.134726   -49.218375  -218.955173
 0.50000   -4.765485  -196.211033   -2.785762
-66.172381   -46.464394  -265.852259
 0.75000   -4.765485  -196.196080   -2.785762
-66.211811   -43.720334  -312.749121
 1.00000   -4.765485  -196.182390   -2.785762
-66.259432   -40.996294  -359.653873

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.670004   82.353320    6.599653
346.468942  111.576105   2000.190
 0.25000    9.670004  111.038937    6.599653
339.530890  105.510931   2405.644
 0.50000    9.670004  139.879452    6.599653
339.530890   99.444430   2765.682
 0.75000    9.670004  168.508213    6.599653
339.530890   93.414491   3082.812
 1.00000    9.670004  200.276452    6.599653
339.530890   87.871020   3358.932

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.837384  -468.510687   -8.958073
-328.220167   -73.862649  -242.635426
 0.25000   -8.837384  -437.430769   -8.958073
-328.220167   -65.844601  -306.160844
 0.50000   -8.837384  -408.896792   -8.958073
-356.225954   -58.601155  -369.726262
 0.75000   -8.837384  -382.303227   -8.958073
-387.131336   -51.949137  -433.273286
 1.00000   -8.837384  -357.992387   -8.958073
-414.358630   -46.003526  -496.823824
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                367

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.589424   81.873748    8.924389
438.213357  102.123030   1788.460
 0.25000    8.589424  105.767024    8.924389
432.434406   94.932540   2167.646
 0.50000    8.589424  129.789320    8.924389
432.434406   88.085538   2509.066
 0.75000    8.589424  153.635239    8.924389
432.434406   81.599768   2814.671
 1.00000    8.589424  180.096140    8.924389
432.434406   75.989924   3086.215

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.052209  -423.551954   -7.811595
-301.261225   -82.294387  -254.895646
 0.25000   -9.052209  -397.664379   -7.811595
-301.261225   -75.978856  -324.364394
 0.50000   -9.052209  -373.897410   -7.811595
-324.588247   -71.220937  -393.833142
 0.75000   -9.052209  -351.746679   -7.811595
-350.330444   -67.676164  -463.302944
 1.00000   -9.052209  -331.497311   -7.811595
-373.009031   -65.331057  -532.775051

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    1.626523   20.256353    6.187784
222.605851   19.063096   172.776280
 0.25000    1.626523   20.272403    6.187784
222.563454   14.815212   231.107714
 0.50000    1.626523   20.288536    6.187784
222.529374   11.240674   289.539821
 0.75000    1.626523   20.304535    6.187784
222.506096    8.299274   347.971467
 1.00000    1.626523   20.322817    6.187784
222.490677    5.915272   406.394504

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -0.881866   -47.016527   -0.511321
-45.932186   -10.200327   -79.332367
 0.25000   -0.881866   -46.998344   -0.511321
-45.967509   -13.690942  -104.550382
 0.50000   -0.881866   -46.982324   -0.511321
-46.005158   -19.758451  -129.768398
 0.75000   -0.881866   -46.967366   -0.511321
-46.044647   -26.118670  -154.986415
 1.00000   -0.881866   -46.953672   -0.511321
-46.092422   -32.772478  -180.204438

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    2.126051   36.170776    8.490209
404.559501   26.246983   403.503790
 0.25000    2.126051   36.186821    8.490209
404.517179   21.386325   529.516009
 0.50000    2.126051   36.202950    8.490209
404.483407   17.253699   656.911400
 0.75000    2.126051   36.218944    8.490209
404.460170   13.792290   785.114466
 1.00000    2.126051   36.237219    8.490209
404.445073   10.912179   913.444828

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.447874  -103.581191   -4.245152
-66.987268   -97.149749  -146.699641
 0.25000   -8.447874  -103.563018   -4.245152
-67.022188   -97.810153  -191.681302
 0.50000   -8.447874  -103.547003   -4.245152
-67.059842   -99.048607  -236.662962
 0.75000   -8.447874  -103.532049   -4.245152
-67.099272  -100.867510  -281.646786
 1.00000   -8.447874  -103.518359   -4.245152
-67.146894  -103.084737  -326.635346
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                368

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.920223   49.402624    9.243547
500.727022   45.610841   815.063912
 0.25000    3.920223   49.421564    9.243547
500.688932   38.517022   1030.822
 0.50000    3.920223   49.431580    9.243547
500.658538   32.085545   1250.180
 0.75000    3.920223   49.445975    9.243547
500.637624   26.336085   1473.221
 1.00000    3.920223   49.462423    9.243547
500.624037   21.496940   1697.850

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.419294  -182.026417   -2.302598
-59.270833   -56.846352  -210.316175
 0.25000   -4.419294  -182.010061   -2.302598
-59.302261   -59.338358  -271.759034
 0.50000   -4.419294  -181.995647   -2.302598
-59.336150   -62.405994  -333.201894
 0.75000   -4.419294  -181.982188   -2.302598
-59.372637   -65.977266  -394.644837
 1.00000   -4.419294  -181.969868   -2.302598
-59.414497   -69.964346  -456.093831

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.905252   72.205938   11.224489
511.352914  122.808601   1495.681
 0.25000   10.905252   88.780721   11.224489
490.023929  112.717166   1825.728
 0.50000   10.905252  105.443405   11.224489
468.707302  103.178786   2134.193
 0.75000   10.905252  121.975263   11.224489
464.235216   94.172816   2421.062
 1.00000   10.905252  140.594468   11.224489
464.235216   86.183394   2685.503

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.696011  -354.119012   -5.199525
-205.354574   -58.775931  -247.268202
 0.25000   -5.696011  -335.750163   -5.199525
-231.169958   -58.671282  -316.291902
 0.50000   -5.696011  -319.234294   -5.199525
-255.849302   -59.264077  -385.315601
 0.75000   -5.696011  -303.827332   -5.199525
-279.190519   -60.591069  -454.340529
 1.00000   -5.696011  -289.732811   -5.199525
-316.532633   -62.581233  -523.368144

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.282915   78.080038    0.894598
72.016933   21.062118   1297.917
 0.25000    3.282915   95.921882    0.894598
72.016933   20.077267   1540.481
 0.50000    3.282915  115.163064    0.894598
72.016933   19.104217   1741.333
 0.75000    3.282915  135.087551    0.894598
72.016933   18.134093   1900.714
 1.00000    3.282915  155.355308    0.894598
72.016933   17.507761   2020.712

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.158666  -303.629313   -12.596320
-595.873710   -86.613201   -146.159345
 0.25000  -13.158666  -276.301857   -12.596320
-587.266646   -71.960898   -181.952778
 0.50000  -13.158666  -250.276626   -12.596320
-578.659583   -59.693548   -217.272275
 0.75000  -13.158666  -225.895540   -12.596320
-570.052519   -48.231039   -252.594951
 1.00000  -13.158666  -203.157983   -12.596320
-561.445455   -37.111173   -287.848401
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                369
```

```
F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.380898   118.147985    5.232926
169.644454   116.782132    1998.490
0.25000   12.380898   139.929357    5.232926
169.644454   110.956819    2364.580
0.50000   12.380898   163.410601    5.232926
169.644454   105.181188    2695.640
0.75000   12.380898   187.754039    5.232926
169.644454    99.420148    2983.324
1.00000   12.380898   212.556214    5.232926
169.644454    97.380112    3223.882

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -14.061316  -458.128942  -14.167991
-702.660673   -89.423943   -258.700077
0.25000  -14.061316  -424.965102  -14.167991
-699.347926   -74.048442  -322.106561
0.50000  -14.061316  -393.458560  -14.167991
-696.035205   -59.277402  -384.808206
0.75000  -14.061316  -363.985134  -14.167991
-692.722484   -45.067129  -447.542060
1.00000  -14.061316  -337.013067  -14.167991
-689.409763   -34.355879  -510.175585

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    9.876820   129.774921    5.390401
332.354397    98.385842    2178.480
0.25000    9.876820   149.780094    5.390401
332.354397    92.393610    2615.005
0.50000    9.876820   171.346889    5.390401
332.354397    86.450284    3016.853
0.75000    9.876820   193.710746    5.390401
332.354397    80.828553    3377.850
1.00000    9.876820   216.496178    5.390401
332.354397    79.495518    3696.041

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -13.317425  -505.551229  -13.072733
-619.323504   -89.619209   -335.226460
0.25000  -13.317425  -475.108958  -13.072733
-616.927708   -75.310071   -420.868756
0.50000  -13.317425  -446.193178  -13.072733
-614.531930   -61.533445   -505.906641
0.75000  -13.317425  -419.147722  -13.072733
-612.136153   -48.244120   -590.981121
1.00000  -13.317425  -394.402474  -13.072733
-609.740375   -38.515207   -675.941698

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    8.758592   126.070392    7.015836
456.495816    90.300603    1975.658
0.25000    8.758592   142.745613    7.015836
456.495816    84.049900    2394.703
0.50000    8.758592   160.722518    7.015836
456.495816    78.067686    2785.000
0.75000    8.758592   179.363810    7.015836
456.495816    72.465028    3141.243
1.00000    8.758592   198.356504    7.015836
456.495816    70.644317    3461.921

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -15.372786  -470.201440  -12.827407
-543.030027  -122.504980  -352.637039
0.25000  -15.372786  -444.826423  -12.827407
-541.033021  -108.304222  -443.178328
0.50000  -15.372786  -420.723805  -12.827407
-539.036032   -96.805667   -534.200413
0.75000  -15.372786  -398.180187  -12.827407
-537.039043   -85.221353   -625.311947
1.00000  -15.372786  -377.553897  -12.827407
-535.042053   -76.950963   -716.589217
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                Page
<          MOVING          LOAD          >
                370

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    9.750688   33.639177    4.876891
143.701694   106.342118   649.282860
0.25000    9.750688   33.645851    4.876891
143.683357   100.727380   772.719933
0.50000    9.750688   33.653062    4.876891
143.666394    95.150992   907.834762
0.75000    9.750688   33.660583    4.876891
143.651166    89.598936    1048.248
1.00000    9.750688   33.668300    4.876891
143.637997    84.085499    1189.292

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.716412  -132.122812   -0.741219
-61.692898    -7.654995   -124.350831
0.25000   -0.716412  -132.112938   -0.741219
-61.710503    -7.475076   -156.059998
0.50000   -0.716412  -132.103653   -0.741219
-61.729416    -7.330888   -187.754548
0.75000   -0.716412  -132.095031   -0.741219
-61.749187    -7.216064   -219.522346
1.00000   -0.716412  -132.087215   -0.741219
-61.769412    -7.151726   -251.228733

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    7.287059   58.808631    5.551711
366.821280    86.183007    977.225678
0.25000    7.287059   58.815305    5.551711
366.802534    80.525498    1199.531
0.50000    7.287059   58.822517    5.551711
366.785962    74.915467    1433.984
0.75000    7.287059   58.830039    5.551711
366.770722    69.472694    1672.962
1.00000    7.287059   58.837757    5.551711
366.757549    64.473166    1913.479

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -4.279829  -219.877304   -2.376420
-59.348018   -47.541277   -233.158953
0.25000   -4.279829  -219.867430   -2.376420
-59.365630   -45.721341   -293.336075
0.50000   -4.279829  -219.858144   -2.376420
-59.384549   -43.944234   -353.636460
0.75000   -4.279829  -219.849521   -2.376420
-59.404328   -42.199251   -413.988765
1.00000   -4.279829  -219.841705   -2.376420
-59.424560   -40.509899   -474.741398

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   10.487137   113.617316    6.649938
409.492045   114.360027    1838.239
0.25000   10.487137   131.228880    6.649938
380.763796   108.348267    2240.989
0.50000   10.487137   150.243466    6.649938
376.488947   102.988477    2611.599
0.75000   10.487137   170.017781    6.649938
376.484538    98.468231    2945.366
1.00000   10.487137   190.236444    6.649938
376.488896    94.934581    3242.635

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -9.654055  -450.459651   -8.831416
-350.855969   -74.913990   -333.688838
0.25000   -9.654055  -424.019780   -8.831416
-359.718539   -67.073498   -414.763307
0.50000   -9.654055  -399.053369   -8.831416
-392.374855   -60.132396   -495.984977
0.75000   -9.654055  -375.787039   -8.831416
-429.258314   -54.205358   -577.207017
1.00000   -9.654055  -354.568413   -8.831416
-464.186114   -49.259891   -658.766491
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                Page
<          MOVING          LOAD          >
                371

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    9.499557   113.204558    9.167369
519.003570   106.212521    1675.400
0.25000    9.499557   127.876262    9.167369
495.070866    98.922556    2060.633
0.50000    9.499557   143.716785    9.167369
491.509607    92.552479    2419.122
0.75000    9.499557   160.190216    9.167369
491.505935    87.284931    2746.973
1.00000    9.499557   177.033822    9.167369
491.509565    83.252833    3044.391

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -9.490080  -419.021874   -8.026616
-326.625262   -83.001918   -347.190257
0.25000   -9.490080  -396.995553   -8.026616
-334.008422   -77.817836   -436.522606
0.50000   -9.490080  -376.196730   -8.026616
-361.213491   -73.881287   -526.044841
0.75000   -9.490080  -356.811498   -8.026616
-391.940074   -71.295181   -615.573626
1.00000   -9.490080  -339.137551   -8.026616
-421.037453   -69.976859   -705.301684

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    2.363134   28.447067    6.970316
263.480418    23.249596   207.837075
0.25000    2.363134   28.453743    6.970316
263.462045    18.035747   278.068176
0.50000    2.363134   28.460957    6.970316
263.445046    13.863561   348.354896
0.75000    2.363134   28.468481    6.970316
263.429782    11.130615   418.658621
1.00000    2.363134   28.476201    6.970316
263.416587     9.176016   488.948729

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -1.026709  -61.839385   -0.708319
-57.330125   -15.619420   -106.335747
0.25000   -1.026709  -61.829509   -0.708319
-57.347756   -19.144570   -139.506189
0.50000   -1.026709  -61.820221   -0.708319
-57.366695   -23.695341   -172.790676
0.75000   -1.026709  -61.811596   -0.708319
-57.386495   -28.935906   -206.070180
1.00000   -1.026709  -61.803779   -0.708319
-57.406748   -34.882410   -239.352975

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    2.705516   50.666121    9.126882
478.763170    31.797559   453.085451
0.25000    2.705516   50.672792    9.126882
478.744870    26.017000   601.262391
0.50000    2.705516   50.680001    9.126882
478.727942    21.296327   750.101148
0.75000    2.705516   50.687519    9.126882
478.712747    17.507050   899.278402
1.00000    2.705516   50.695233    9.126882
478.699607    14.473142    1048.582

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -7.543643  -131.925690   -3.774538
-81.350413   -89.688368   -203.471383
0.25000   -7.543643  -131.915189   -3.774538
-81.367993   -90.469356   -261.071961
0.50000   -7.543643  -131.905907   -3.774538
-81.386878   -92.305732   -319.092788
0.75000   -7.543643  -131.897286   -3.774538
-81.406622   -95.081297   -377.004033
1.00000   -7.543643  -131.889473   -3.774538
-81.426817   -98.479019   -435.886419
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                Page
<          MOVING          LOAD          >
                372

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    4.856894   69.266413    9.907753
568.986980    59.799634   870.691345
0.25000    4.856894   69.338465    9.907753
568.789248    54.757941   1113.636
0.50000    4.856894   69.416329    9.907753
568.606322    45.584713    1358.163
0.75000    4.856894   69.497533    9.907753
568.442128    39.914544    1602.683
1.00000    4.856894   69.580852    9.907753
568.300140    34.959547    1847.869

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -4.757941  -218.854455   -2.496294
-70.425293   -63.535362   -282.728987
0.25000   -4.757941  -218.747847   -2.496294
-70.615227   -65.226865   -362.129187
0.50000   -4.757941  -218.647586   -2.496294
-70.819264   -67.898575   -441.666409
0.75000   -4.757941  -218.554482   -2.496294
-71.032573   -71.375749   -521.263737
1.00000   -4.757941  -218.470091   -2.496294
-71.250757   -75.420858   -601.265933

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   11.050638   102.228542   11.518762
592.282161   122.899376    1437.167
0.25000   11.050638   112.854408   11.518762
568.461015   113.530760    1781.618
0.50000   11.050638   124.338408   11.518762
546.478276   105.265256    2109.549
0.75000   11.050638   136.298428   11.518762
527.235904    98.049457    2416.351
1.00000   11.050638   148.552288   11.518762
527.007572    91.714445    2701.546

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -6.581194  -363.922915   -5.376752
-229.210615   -66.999860   -340.874017
0.25000   -6.581194  -348.093721   -5.376752
-253.915299   -66.095981   -429.370009
0.50000   -6.581194  -333.182942   -5.376752
-280.539131   -66.407251   -517.983220
0.75000   -6.581194  -319.298453   -5.376752
-308.350157   -67.734048   -606.617090
1.00000   -6.581194  -306.689117   -5.376752
-336.496698   -69.892275   -695.539018

COMB     DB ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.391779    96.113381   11.224489
511.352914   122.808801    2408.074
0.25000   12.391779   131.216522   11.224489
500.688932   112.771166    2856.706
0.50000   12.391779   166.515039   11.224489
500.658538   103.881201    3249.721
0.75000   12.391779   202.916219   11.224489
500.637624    97.128719    3590.608
1.00000   12.391779   244.221951   11.224489
500.624037    90.828990    3881.943

COMB     DB ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -13.499598  -542.949678  -13.259041
-636.063581  -113.071823  -623.885958
0.25000  -13.499598  -506.411885  -13.259041
-636.063581  -100.864698  -333.914480
0.50000  -13.499598  -471.597663  -13.259041
-636.063581   -99.048607   -403.943002
0.75000  -13.499598  -439.203555  -13.259041
-636.063581  -100.867510   -473.972822
1.00000  -13.499598  -409.626189  -13.259041
-636.063581  -103.084737   -544.005482
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                Page
<          MOVING          LOAD          >
                373

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB     DL ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.380898   129.774921   11.518762
592.282161   122.899376    2178.480
0.25000   12.380898   149.780094   11.518762
568.789248   113.530760    2615.005
0.50000   12.380898   171.346889   11.518762
568.606322   105.265256    3016.853
0.75000   12.380898   193.710746   11.518762
568.442128    99.420148    3377.850
1.00000   12.380898   216.496178   11.518762
568.300140    97.380112    3696.041

COMB     DL ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -15.372786  -505.551229  -14.167991
-702.660673  -122.504980  -352.637039
0.25000  -15.372786  -475.108958  -14.167991
-699.347926  -109.304222  -443.178328
0.50000  -15.372786  -446.193178  -14.167991
-696.035205   -96.805667   -534.200413
0.75000  -15.372786  -419.147722  -14.167991
-692.722484   -95.081297   -625.311947
1.00000  -15.372786  -394.402474  -14.167991
-689.409763   -98.479019   -716.589217

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.391779   129.774921   11.518762
592.282161   122.899376    2408.074
0.25000   12.391779   149.780094   11.518762
568.789248   113.530760    2856.706
0.50000   12.391779   171.346889   11.518762
568.606322   105.265256    3249.721
0.75000   12.391779   202.916219   11.518762
568.442128    99.420148    3590.608
1.00000   12.391779   244.221951   11.518762
568.300140    97.380112    3881.943

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -15.372786  -542.949678  -14.167991
-702.660673  -122.504980  -352.637039
0.25000  -15.372786  -506.411885  -14.167991
-699.347926  -109.304222  -443.178328
0.50000  -15.372786  -471.597663  -14.167991
-696.035205   -99.048607   -534.200413
0.75000  -15.372786  -439.203555  -14.167991
-692.722484  -100.867510   -625.311947
1.00000  -15.372786  -409.626189  -14.167991
-689.409763  -103.084737   -716.589217

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.391779   129.774921   11.518762
592.282161   122.899376    2408.074
0.25000   12.391779   149.780094   11.518762
568.789248   113.530760    2856.706
0.50000   12.391779   171.346889   11.518762
568.606322   105.265256    3249.721
0.75000   12.391779   202.916219   11.518762
568.442128    99.420148    3590.608
1.00000   12.391779   244.221951   11.518762
568.300140    97.380112    3881.943

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -15.372786  -542.949678  -14.167991
-702.660673  -122.504980  -352.637039
0.25000  -15.372786  -506.411885  -14.167991
-699.347926  -109.304222  -443.178328
0.50000  -15.372786  -471.597663  -14.167991
-696.035205   -99.048607   -534.200413
0.75000  -15.372786  -439.203555  -14.167991
-692.722484  -100.867510   -625.311947
1.00000  -15.372786  -409.626189  -14.167991
-689.409763  -103.084737   -716.589217
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                Page
<          MOVING          LOAD          >
                374

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      3 ================== LENGTH =    4.987449

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    2.783175   133.161889    1.148614
56.769460    10.653683    2227.009
0.25000    2.783175   159.936477    1.148614
56.769460    14.820166    2367.570
0.50000    2.783175   187.924019    1.148614
56.769460    27.429437    2461.050
0.75000    2.783175   216.669607    1.148614
56.769460    40.880266    2510.151
1.00000    2.783175   244.745139    1.148614
56.769460    54.863214    2519.993

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -10.120322  -296.770679  -12.160999
-422.623555   -25.179684   -218.785033
0.25000  -10.120322  -269.391754  -12.160999
-422.623555   -19.743950   -245.440435
0.50000  -10.120322  -242.280587  -12.160999
-422.623555   -14.309503   -272.095838
0.75000  -10.120322  -216.811851  -12.160999
-422.623555    -9.784775   -298.751241
1.00000  -10.120322  -193.456446  -12.160999
-422.623555    -7.230698   -325.406650

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.825113   186.205819    9.882040
146.310853    91.837918    3510.697
0.25000   12.825113   219.621596    9.882040
146.310853    92.158167    3705.760
0.50000   12.825113   254.509119    9.882040
146.310853    93.956608    3858.846
0.75000   12.825113   290.325731    9.882040
146.310853    96.924930    3976.034
1.00000   12.825113   326.152965    9.882040
146.310853   100.746279    4056.580

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -11.090314  -432.703827  -14.000684
-556.564920   -25.954403   -387.181281
0.25000  -11.090314  -397.688241  -14.000684
-556.564920   -15.877135   -434.995640
0.50000  -11.090314  -363.769284  -14.000684
-556.564920   -10.232557   -482.810173
0.75000  -11.090314  -331.852413  -14.000684
-556.564920    -9.516788   -530.624705
1.00000  -11.090314  -302.495759  -14.000684
-556.564920    -8.899729   -578.439244

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    9.070024   182.218226    7.554543
262.014747    64.097664    3882.873
0.25000    9.070024   212.874233    7.554543
262.014747    66.398381    4115.574
0.50000    9.070024   244.879879    7.554543
262.014747    70.642717    4311.417
0.75000    9.070024   277.739663    7.554543
262.014747    76.588416    4474.500
1.00000    9.070024   310.667128    7.554543
262.014747    83.651773    4601.929

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -10.351620  -446.555125  -12.705725
-502.268237   -25.979014   -508.396637
0.25000  -10.351620  -414.364420  -12.705725
-502.268237   -16.750412   -572.394976
0.50000  -10.351620  -383.238705  -12.705725
-502.268237   -11.682248   -636.393315
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                Page
<          MOVING          LOAD          >
                375

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
0.75000  -10.351620  -353.945616  -12.705725
-502.268237   -10.950646   -700.391654
1.00000  -10.351620  -326.997889  -12.705725
-502.268237   -10.347644   -764.389999

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    8.240588   165.047833    8.714716
331.804856    56.424632    3577.549
0.25000    8.240588   190.606071    8.714716
331.804856    57.954892    3804.135
0.50000    8.240588   217.289500    8.714716
331.804856    61.131364    4000.238
0.75000    8.240588   244.684991    8.714716
331.804856    65.745777    4169.433
1.00000    8.240588   272.138820    8.714716
331.804856    71.312255    4309.329

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -14.203059  -400.604953  -15.634968
-441.664044   -58.884865   -544.143683
0.25000  -14.203059  -373.765230  -15.634968
-441.664044   -58.737229   -613.947272
0.50000  -14.203059  -347.815152  -15.634968
-441.664044   -49.854686   -683.750861
0.75000  -14.203059  -323.392831  -15.634968
-441.664044   -45.238551   -753.554793
1.00000  -14.203059  -300.925762  -15.634968
-441.664044   -41.785763   -823.368077

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   11.143873   34.189185    9.789833
130.884438    88.350151    1221.996
0.25000   11.143873   34.203560    9.789833
130.845552    76.165197    1265.754
0.50000   11.143873   34.218549    9.789833
130.812578    63.980242    1328.362
0.75000   11.143873   34.233913    9.789833
130.783553    51.795288    1412.181
1.00000   11.143873   34.250844    9.789833
130.762437    39.611046    1511.012

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.708121   -96.375036   -0.820475
-128.783614    -5.020647   -192.122121
0.25000   -0.708121   -96.358337   -0.820475
-128.814715    -4.661599   -216.621185
0.50000   -0.708121   -96.343542   -0.820475
-128.847892    -4.335394   -241.120249
0.75000   -0.708121   -96.329514   -0.820475
-128.882641    -4.060260   -265.619313
1.00000   -0.708121   -96.316500   -0.820475
-128.923719    -3.860101   -290.118445

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    7.737436   51.071587    8.296063
282.011485    60.821784    1868.590
0.25000    7.737436   51.085962    8.296063
281.972600    51.825673    1967.046
```

```
 0.50000      7.737436     51.100951      8.296063
281.939625     43.398246     2085.633
 0.75000      7.737436     51.116315      8.296063
281.910600     35.656359     2226.502
 1.00000      7.737436     51.132246      8.296063
281.889485     28.333107     2380.325

 COMB DB-G2-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -5.212469 -147.371183     -4.794885
-128.236156   -41.468189  -359.649597
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                 MOVING          LOAD                >
                                   376

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
        T           M2           M3
 0.25000     -5.212469 -147.354484     -4.794885
-128.267257   -36.159637  -406.447739
 0.50000     -5.212469 -147.339689     -4.794885
-128.300434   -30.891741  -453.245880
 0.75000     -5.212469 -147.325661     -4.794885
-128.335183   -25.685063  -500.044022
 1.00000     -5.212469 -147.312647     -4.794885
-128.376261   -20.963160  -546.842169

 COMB DB-G2-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      9.471047     145.605536     10.076046
308.799813     89.272691     3358.790
 0.25000      9.471047     170.957185     10.076046
289.663288     78.187451     3575.518
 0.50000      9.471047     197.410017     10.076046
289.663288     69.457458     3764.389
 0.75000      9.471047     224.547194     10.076046
289.663288     67.714839     3926.000
 1.00000      9.471047     253.015566     10.076046
289.663288     68.100534     4057.533

 COMB DB-G2-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -9.574335  -383.940174    -11.070938
-313.410928   -46.009554  -497.014022
 0.25000     -9.574335  -355.987550    -11.070938
-323.351308   -37.199583  -560.399671
 0.50000     -9.574335  -330.081166    -11.070938
-353.334337   -32.171597  -623.785321
 0.75000     -9.574335  -305.514224    -11.070938
-381.060018   -27.217255  -687.170971
 1.00000     -9.574335  -283.015242    -11.070938
-407.443164   -22.729811  -750.556626

 COMB DB-G2-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      8.488998     134.511243     11.676927
366.962284     77.581346     3085.403
 0.25000      8.488998     155.627538     11.676927
351.022788     67.240053     3295.679
 0.50000      8.488998     177.661047     11.676927
351.022788     59.369268     3483.020
 0.75000      8.488998     200.264572     11.676927
351.022788     57.844567     3647.762
 1.00000      8.488998     223.976897     11.676927
351.022788     58.074670     3787.466

 COMB DB-G2-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -9.707425  -344.450456    -10.610887
-288.251523   -64.990143  -532.773557
 0.25000     -9.707425  -321.167715    -10.610887
-296.531221   -58.131869  -601.992280
 0.50000     -9.707425  -299.589362    -10.610887
-321.505158   -55.035978  -671.227244
 0.75000     -9.707425  -279.209971    -10.610887
-344.598869   -52.719506  -740.464029
 1.00000     -9.707425  -260.386471    -10.610887
-366.574334   -51.554573  -809.700815

 COMB DB-G3-1 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      1.279793     20.142035      5.915612
164.730704     4.061175     405.252289
 0.25000      1.279793     20.156414      5.915612
164.751746     3.910026     448.265724
 0.50000      1.279793     20.171409      5.915612
164.718714     3.209559     491.336887
 0.75000      1.279793     20.186778      5.915612
164.689422     2.509143     534.545186
 1.00000      1.279793     20.203719      5.915612
164.668266     1.972205     577.810712
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                 MOVING          LOAD                >
                                   377

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -1.280272   -35.420708     -1.014866
-45.355861   -32.099918  -179.939397
 0.25000     -1.280272   -35.404000     -1.014866
-45.387022   -35.932408  -204.968096
 0.50000     -1.280272   -35.389198     -1.014866
-45.420259   -40.163927  -230.009617
 0.75000     -1.280272   -35.375165     -1.014866
-45.455068   -44.828745  -255.051139
 1.00000     -1.280272   -35.362145     -1.014866
-45.496223   -50.024720  -280.092660

 COMB DB-G3-2 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      1.925668     36.486307      8.225168
301.633635    11.956741     911.598582
 0.25000      1.925668     36.500681      8.225168
301.594750    11.726426     997.016448
 0.50000      1.925668     36.515670      8.225168
301.561775     7.160983     1083.681
 0.75000      1.925668     36.531034      8.225168
301.532750     6.025708     1171.877
 1.00000      1.925668     36.547965      8.225168
301.511635     4.894001     1261.874

 COMB DB-G3-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -8.903095   -76.527021     -8.053854
-67.836633   -102.411908  -326.261269
 0.25000     -8.903095   -76.513023     -8.053854
-67.861734   -96.917672   -370.990551
 0.50000     -8.903095   -76.495527     -8.053854
-67.894910   -92.156269   -415.738178
 0.75000     -8.903095   -76.481500     -8.053854
-67.929660   -88.064601   -460.486500
 1.00000     -8.903095   -76.468485     -8.053854
-67.970737   -85.111635   -505.234823

 COMB DB-G3-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      3.414091     50.001249      9.078389
389.967141    23.055245     1695.682
 0.25000      3.414091     50.014187      9.078389
389.932144    17.821245     1822.993
 0.50000      3.414091     50.027677      9.078389
389.902467    15.268975     1950.251
 0.75000      3.414091     50.041504      9.078389
389.876344    12.729462     2104.246
 1.00000      3.414091     50.056742      9.078389
389.857341    10.327833     2253.702

 COMB DB-G3-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -5.165434  -134.506291     -4.370777
-101.893400   -69.763789  -455.784725
 0.25000     -5.165434  -134.491262     -4.370777
-101.921390   -68.462970  -516.958979
 0.50000     -5.165434  -134.477946     -4.370777
-101.951249   -67.850933  -578.149488
 0.75000     -5.165434  -134.465321     -4.370777
-101.982524   -67.920786  -639.341124
 1.00000     -5.165434  -134.453609     -4.370777
-102.019493   -69.010669  -700.532760

 COMB DB-G3-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     10.412524     109.770592     14.589422
435.166160    87.902081     2684.093
 0.25000     10.412524     124.520127     14.589422
406.116330    74.476404     2869.042
 0.50000     10.412524     139.905223     14.589422
386.885538    63.441388     3043.320
 0.75000     10.412524     155.681412     14.589422
373.344346    53.337390     3207.299
 1.00000     10.412524     172.655291     14.589422
373.344346    48.216494     3356.698
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                 MOVING          LOAD                >
                                   378

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -6.563030  -285.024957     -7.028670
-228.753018   -62.145020  -523.246496
 0.25000     -6.563030  -268.320041     -7.028670
-252.797581   -60.535001  -591.999390
 0.50000     -6.563030  -253.192339     -7.028670
-275.871487   -59.820618  -660.765816
 0.75000     -6.563030  -238.877056     -7.028670
-306.663723   -59.695522  -729.533198
 1.00000     -6.563030  -225.624636     -7.028670
-342.575444   -60.449097  -798.300581

 COMB DL-G1-1 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      3.856030     118.056055      1.803314
75.301970     16.283808     2022.755
 0.25000      3.856030     136.269186      1.803314
75.301970     20.752859     2162.706
 0.50000      3.856030     155.723349      1.803314
75.301970     30.699127     2265.716
 0.75000      3.856030     176.083344      1.803314
75.301970     43.363481     2331.459
 1.00000      3.856030     196.891405      1.803314
75.301970     57.757279     2361.253

 COMB DL-G1-1 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -13.857015  -247.878966    -14.014553
-448.510613   -35.987431  -288.202753
 0.25000    -13.857015  -224.794284    -14.014553
-439.903429   -26.011181  -323.280755
 0.50000    -13.857015  -202.479759    -14.014553
-431.296245   -19.075009  -358.323154
 0.75000    -13.857015  -181.418593    -14.014553
-422.689061   -14.495845  -393.460542
 1.00000    -13.857015  -161.986732    -14.014553
-414.081876   -11.646587  -428.442338

 COMB DL-G1-2 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     12.951800     176.577130      9.421997
171.254318    97.313377     3697.191
 0.25000     12.951800     198.755952      9.421997
171.254318    96.037755     3432.372
 0.50000     12.951800     222.473238      9.421997
171.254318    98.211026     3606.480
 0.75000     12.951800     247.348015      9.421997
171.254318    103.168624    3748.311
 1.00000     12.951800     272.820932      9.421997
171.254318    109.861913    3849.390

 COMB DL-G1-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -15.058153  -369.346011    -15.520289
-562.081794   -32.860630  -510.620702
 0.25000    -15.058153  -341.122155    -15.520289
-558.769027   -22.342856  -572.791003
 0.50000    -15.058153  -313.888210    -15.520289
-555.456260   -17.212866  -634.935893
 0.75000    -15.058153  -288.239827    -15.520289
-552.143492   -11.440248  -697.080929
 1.00000    -15.058153  -264.541346    -15.520289
-548.830725   -13.246600  -760.530734

 COMB DL-G1-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     10.347744     180.617241      8.367196
282.670721    80.722918     3697.191
 0.25000     10.347744     200.981978      8.367196
282.670721    80.070009     3953.474
 0.50000     10.347744     222.764150      8.367196
282.670721    82.709702     4179.558
 0.75000     10.347744     245.613489      8.367196
282.670721    87.992630     4374.528
 1.00000     10.347744     269.017840      8.367196
282.670721    95.388613     4532.575
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                 MOVING          LOAD                >
                                   379

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -14.397685  -396.879867    -14.582275
-508.860659   -37.735810  -676.269812
 0.25000    -14.397685  -370.951703    -14.582275
-506.464848   -27.510323  -760.754236
 0.50000    -14.397685  -345.937269    -14.582275
-504.069037   -21.447653  -845.320421
 0.75000    -14.397685  -322.382013    -14.582275
-501.673226   -18.281537  -930.390454
 1.00000    -14.397685  -300.620713    -14.582275
-499.277415   -17.305558   -1015.304

 COMB DL-G1-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      9.422867     168.351459      9.431694
366.359731    72.428224     3462.099
 0.25000      9.422867     185.326394      9.431694
366.359731    70.927058     3717.103
 0.50000      9.422867     203.482825      9.431694
366.359731    72.450723     3947.150
 0.75000      9.422867     222.528788      9.431694
366.359731    76.313186     4151.287
 1.00000      9.422867     242.037379      9.431694
366.359731    81.955250     4324.821

 COMB DL-G1-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -16.534391  -367.759060    -15.917684
-451.254632   -76.657391  -716.715976
 0.25000    -16.534391  -346.146756    -15.917684
-449.257615   -65.198612  -807.942635
 0.50000    -16.534391  -325.296087    -15.917684
-447.260598   -57.562397  -899.255163
 0.75000    -16.534391  -305.661710    -15.917684
-445.263580   -52.858601  -990.986359
 1.00000    -16.534391  -287.522677    -15.917684
-443.266563   -50.497147   -1082.591

 COMB DL-G2-1 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      9.614600     43.680794      8.416508
132.543741    84.950948     1188.968
 0.25000      9.614600     43.687496      8.416508
132.526769    12.575907     1256.366
 0.50000      9.614600     43.694747      8.416508
132.510612    65.161788     1335.916
 0.75000      9.614600     43.702422      8.416508
132.495689    55.314106     1424.687
 1.00000      9.614600     43.710369      8.416508
132.482433    45.466157     1515.801

 COMB DL-G2-1 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -0.935033   -96.358393     -0.919573
-98.613295   -99.392308   -435.386574
 0.25000     -0.935033   -96.349662     -0.919573
-98.629295    -7.028124  -282.684072
 0.50000     -0.935033   -96.341294     -0.919573
-98.646787    -6.748878  -314.154338
 0.75000     -0.935033   -96.333456     -0.919573
-98.665513    -6.521887  -346.065481
 1.00000     -0.935033   -96.326278     -0.919573
-98.684984    -6.323869  -377.953679

 COMB DL-G2-2 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      7.288011     67.671271      7.745538
289.089087    66.743374     1912.181
 0.25000      7.288011     67.677974      7.745538
289.072107    58.537770     2047.579
 0.50000      7.288011     67.685225      7.745538
289.055941    50.953399     2194.593
 0.75000      7.288011     67.692901      7.745538
289.041011    43.433336     2351.654
 1.00000      7.288011     67.700849      7.745538
289.027747    35.965025     2512.765
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                 MOVING          LOAD                >
                                   380

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -4.883620  -158.186439     -4.028329
-104.024979   -41.503090  -474.668446
 0.25000     -4.883620  -158.177707     -4.028329
-104.040986   -37.596003  -535.207298
 0.50000     -4.883620  -158.169339     -4.028329
-104.058484   -33.799575  -596.971175
 0.75000     -4.883620  -158.161500     -4.028329
-104.077218   -30.096307  -658.580073
 1.00000     -4.883620  -158.154321     -4.028329
-104.096696   -26.481104  -720.188022

 COMB DL-G2-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     10.758402     150.539734     10.020017
350.587553    96.169142     3242.742
 0.25000     10.758402     168.356143     10.020017
324.449688    88.862649     3489.813
 0.50000     10.758402     187.514658     10.020017
305.553930    82.403424     3709.384
 0.75000     10.758402     207.703155     10.020017
305.342774    81.474559     3899.165
 1.00000     10.758402     228.499837     10.020017
305.341737    81.588220     4056.840

 COMB DL-G2-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -10.75094   -352.675076    -10.651875
-305.357692   -49.285556  -658.924311
 0.25000     -10.75094   -329.740750    -10.651875
-320.808546   -41.753329  -740.336557
 0.50000     -10.75094   -307.683935    -10.651875
-353.652956   -36.857862  -822.024452
 0.75000     -10.75094   -286.954383    -10.651875
-385.213155   -32.124642  -904.755607
 1.00000     -10.75094   -267.920062    -10.651875
-421.819890   -29.673701  -988.155808

 COMB DL-G2-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      9.875631     143.844061     11.755106
423.451850    85.539361     3043.690
 0.25000      9.875631     158.686416     11.755106
401.677121    77.366503     3288.430
 0.50000      9.875631     174.646842     11.755106
385.935591    71.230180     3510.235
 0.75000      9.875631     191.465317     11.755106
385.759683    69.939348     3707.317
 1.00000      9.875631     208.790454     11.755106
385.758819    69.661639     3877.559

 COMB DL-G2-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -10.643555  -327.919797    -10.291234
-287.954924   -70.311457  -705.224392
 0.25000     -10.643555  -308.813848    -10.291234
-300.826600   -64.888076  -794.562300
 0.50000     -10.643555  -290.438929    -10.291234
-328.188364   -62.336765  -884.068541
 0.75000     -10.643555  -273.169715    -10.291234
-356.979505   -61.103605  -974.477396
 1.00000     -10.643555  -257.312752    -10.291234
-384.976341   -60.889465   -1065.454

 COMB DL-G3-1 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      2.370827     28.237745      6.728343
197.125381    10.362575     487.767966
 0.25000      2.370827     28.244450      6.728343
197.108375     7.894545     543.708408
 0.50000      2.370827     28.251703      6.728343
197.092184     6.073911     599.673015
 0.75000      2.370827     28.259381      6.728343
197.077230     4.731298     655.650348
 1.00000      2.370827     28.267332      6.728343
197.063944     3.632203     711.626244

 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                 MOVING          LOAD                >
                                   381

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -1.480122   -49.221607     -1.362919
-56.416465   -35.352050  -239.008262
 0.25000     -1.480122   -49.212873     -1.362919
-56.432491   -39.025298  -272.032738
 0.50000     -1.480122   -49.204502     -1.362919
-56.450010   -43.581737  -305.137673
 0.75000     -1.480122   -49.196661     -1.362919
-56.468765   -48.836190  -338.168560
 1.00000     -1.480122   -49.189481     -1.362919
-56.488267   -54.585911  -371.181079

 COMB DL-G3-2 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      3.008655     50.641479      8.841947
352.584479    16.729276     1046.494
 0.25000      3.008655     50.648179      8.841947
352.565542    12.575907     1157.443
 0.50000      3.008655     50.655428      8.841947
352.551418    10.138987     1269.181
 0.75000      3.008655     50.663099      8.841947
352.536528     8.389622     1381.815
 1.00000      3.008655     50.671044      8.841947
352.523301     6.950462     1494.787

 COMB DL-G3-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -8.353851  -100.747902     -7.049524
-81.350995   -99.392308   -435.386574
 0.25000     -8.353851  -100.739174     -7.049524
-81.366969   -96.651251   -494.754974
 0.50000     -8.353851  -100.730810     -7.049524
-81.384434   -94.956398   -554.126141
 0.75000     -8.353851  -100.722975     -7.049524
-81.403131   -94.132395   -613.512831
 1.00000     -8.353851  -100.715593     -7.049524
-81.422570   -93.901296   -672.907254

 COMB DL-G3-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000      4.920857     70.029329     10.075094
428.071249    38.031088     1845.466
 0.25000      4.920857     70.101695     10.075094
427.888238    31.655596     2012.419
 0.50000      4.920857     70.179986     10.075094
427.714008    26.808126     2182.974
 0.75000      4.920857     70.262484     10.075094
427.553104    22.552514     2354.509
 1.00000      4.920857     70.348659     10.075094
427.410182    18.562446     2527.882

 COMB DL-G3-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -5.697437  -159.785229     -4.665414
-104.507139   -76.825351   -600.839433
 0.25000     -5.697437  -159.690963     -4.665414
-104.679735   -76.310816   -681.207277
 0.50000     -5.697437  -159.600619     -4.665414
-104.868425   -76.717891   -761.641695
 0.75000     -5.697437  -159.515992     -4.665414
-105.070432   -77.915315   -842.036285
 1.00000     -5.697437  -159.438486     -4.665414
-105.280466   -79.668250   -922.437071

 COMB DL-G3-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     11.212006     124.361915     14.289668
482.455779    94.326426     2700.179
 0.25000     11.212006     135.072892     14.289668
460.530702    83.530719     2924.118
 0.50000     11.212006     146.627996     14.289668
439.635857    74.441061     3134.032
 0.75000     11.212006     158.836562     14.289668
420.466955    66.198929     3327.697
 1.00000     11.212006     171.448314     14.289668
411.354808    60.703403     3503.020
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                 MOVING          LOAD                >
                                   382

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     -7.733752  -283.095402     -7.342667
-235.963873   -70.587022  -695.297619
 0.25000     -7.733752  -269.211623     -7.342667
-257.898536   -69.053556  -784.050443
 0.50000     -7.733752  -255.883769     -7.342667
-282.085832   -68.868520  -872.826925
 0.75000     -7.733752  -243.388480     -7.342667
-307.975464   -69.717686   -961.907575
 1.00000     -7.733752  -231.927028     -7.342667
-334.758871   -71.224842   -1051.185

 COMB     DB ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     12.825113     186.205819     14.589422
435.166160    91.837918     3882.873
 0.25000     12.825113     219.621596     14.589422
406.169530    92.158167     4115.574
 0.50000     12.825113     254.509119     14.589422
389.902467    93.956084     4311.417
 0.75000     12.825113     290.329231     14.589422
389.876344    96.924930     4474.500
 1.00000     12.825113     326.152965     14.589422
389.857341   100.746279     4601.929

 COMB     DB ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -14.203059  -446.555125    -15.634968
-556.564920  -102.411908  -544.143683
 0.25000    -14.203059  -414.364420    -15.634968
-556.564920   -96.917672  -613.947272
 0.50000    -14.203059  -383.238705    -15.634968
-556.564920   -92.156269  -683.750861
 0.75000    -14.203059  -353.945616    -15.634968
-556.564920   -88.064601  -753.557931
 1.00000    -14.203059  -326.997889    -15.634968
-556.564920   -85.111635  -823.368077

 COMB     DL ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     12.951800     180.617241     14.289668
482.455779    97.313377     3697.191
 0.25000     12.951800     200.981978     14.289668
460.530702    96.037755     3953.474
 0.50000     12.951800     222.764150     14.289668
439.635857    98.211026     4179.558
 0.75000     12.951800     247.348015     14.289668
427.553104    103.168624    4374.528
 1.00000     12.951800     272.820932     14.289668
427.410182    109.861913    4532.575
```

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.534391	-396.879867	-15.917684
-562.081794	-99.392308	-716.715976	
0.25000	-16.534391	-370.951703	-15.917684
-558.769027	-96.651251	-807.942635	
0.50000	-16.534391	-345.937269	-15.917684
-555.456260	-94.956398	-899.255163	
0.75000	-16.534391	-322.382013	-15.917684
-552.143492	-94.132395	-990.986359	
1.00000	-16.534391	-300.620713	-15.917684
-548.830725	-93.901296	-1082.591	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.951800	186.205819	14.589422
482.455779	97.313377	3882.873	
0.25000	12.951800	219.621596	14.589422
460.530702	96.037755	4115.574	
0.50000	12.951800	254.509119	14.589422
439.635857	98.211026	4311.417	
0.75000	12.951800	290.329231	14.589422
427.553104	103.168624	4474.500	
1.00000	12.951800	326.152965	14.589422
427.410182	109.861913	4601.929	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 383

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.534391	-446.555125	-15.917684
-562.081794	-102.411908	-716.715976	
0.25000	-16.534391	-414.364420	-15.917684
-558.769027	-96.917672	-807.942635	
0.50000	-16.534391	-383.238705	-15.917684
-556.564920	-94.956398	-899.255163	
0.75000	-16.534391	-353.945616	-15.917684
-556.564920	-94.132395	-990.986359	
1.00000	-16.534391	-326.997889	-15.917684
-556.564920	-93.901296	-1082.591	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.951800	186.205819	14.589422
482.455779	97.313377	3882.873	
0.25000	12.951800	219.621596	14.589422
460.530702	96.037755	4115.574	
0.50000	12.951800	254.509119	14.589422
439.635857	98.211026	4311.417	
0.75000	12.951800	290.329231	14.589422
427.553104	103.168624	4474.500	
1.00000	12.951800	326.152965	14.589422
427.410182	109.861913	4601.929	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.534391	-446.555125	-15.917684
-562.081794	-102.411908	-716.715976	
0.25000	-16.534391	-414.364420	-15.917684
-558.769027	-96.917672	-807.942635	
0.50000	-16.534391	-383.238705	-15.917684
-556.564920	-94.956398	-899.255163	
0.75000	-16.534391	-353.945616	-15.917684
-556.564920	-94.132395	-990.986359	
1.00000	-16.534391	-326.997889	-15.917684
-556.564920	-93.901296	-1082.591	

ELEM 4 ========== LENGTH = 4.987537

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.245278	171.410408	1.356522
136.590714	55.058002	2521.055	
0.25000	3.245278	195.526696	1.356522
136.590714	59.314482	2583.246	
0.50000	3.245278	221.182652	1.356522
136.590714	64.366217	2605.494	
0.75000	3.245278	247.861078	1.356522
136.590714	72.260908	2589.445	
1.00000	3.245278	274.176401	1.356522
136.590714	76.896548	2539.573	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.161757	-268.254707	-7.087830
-284.303310	-7.304850	-325.665882	
0.25000	-10.161757	-242.328454	-7.087830
-284.303310	-5.829597	-354.531716	
0.50000	-10.161757	-216.476637	-7.087830
-284.303310	-5.263104	-383.397555	
0.75000	-10.161757	-192.129779	-7.087830
-284.303310	-6.196988	-412.263394	
1.00000	-10.161757	-169.788798	-7.087830
-284.303310	-7.380176	-441.129233	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.219487	251.831651	6.751502
213.038502	101.403969	4057.615	
0.25000	13.219487	282.112436	6.751502
213.038502	98.855822	4120.705	
0.50000	13.219487	314.256508	6.751502
213.038502	97.912789	4148.788	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 384

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	13.219487	347.673973	6.751502
213.038502	102.047279	4149.907	
1.00000	13.219487	381.406914	6.751502
213.038502	108.208256	4123.330	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.352638	-382.250611	-8.842806
-405.051537	-7.778585	-578.811393	
0.25000	-11.352638	-348.949298	-8.842806
-405.051537	-8.311372	-629.946046	
0.50000	-11.352638	-316.530627	-8.842806
-405.051537	-9.114670	-681.080703	
0.75000	-11.352638	-285.944665	-8.842806
-405.051537	-10.238012	-732.215361	
1.00000	-11.352638	-257.790166	-8.842806
-405.051537	-11.655935	-783.350019	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.367683	243.963874	5.348590
288.519482	84.701711	4602.553	
0.25000	9.367683	271.757312	5.348590
288.519482	83.979905	4673.654	
0.50000	9.367683	301.258323	5.348590
288.519482	84.866989	4714.625	
0.75000	9.367683	331.925136	5.348590
288.519482	89.673083	4732.165	
1.00000	9.367683	362.944106	5.348590
288.519482	95.705339	4727.805	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.796719	-381.092300	-7.866607
-426.463359	-9.697792	-764.696589	
0.25000	-10.796719	-350.467311	-7.866607
-426.463359	-10.070172	-831.658978	
0.50000	-10.796719	-320.712475	-7.866607
-426.463359	-10.667803	-898.619371	
0.75000	-10.796719	-292.635338	-7.866607
-426.463359	-11.552907	-965.582680	
1.00000	-10.796719	-266.785468	-7.866607
-426.463359	-12.707307	-1032.553	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.748340	215.757025	6.492974
300.298719	72.713092	4309.448	
0.25000	8.748340	238.929110	6.492974
300.298719	71.864593	4379.976	
0.50000	8.748340	263.524762	6.492974
300.298719	72.561868	4425.491	
0.75000	8.748340	289.092284	6.492974
300.298719	76.229714	4451.692	
1.00000	8.748340	314.955267	6.492974
300.298719	80.915052	4460.032	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.522136	-332.005959	-10.058454
-374.790151	-41.134931	-823.499603	
0.25000	-14.522136	-306.471384	-10.058454
-374.790151	-39.112459	-894.725679	
0.50000	-14.522136	-281.664058	-10.058454
-374.790151	-38.528904	-965.953843	
0.75000	-14.522136	-258.255339	-10.058454
-374.790151	-39.089144	-1037.190	
1.00000	-14.522136	-236.703416	-10.058454
-374.790151	-40.658803	-1108.429	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.977411	58.393731	5.960639
139.267676	40.095686	1510.890	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 385

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	10.977411	58.407092	5.960639
139.227582	32.684310	1498.611	
0.50000	10.977411	58.421205	5.960639
139.194493	26.117750	1503.436	
0.75000	10.977411	58.435813	5.960639
139.163466	22.965527	1531.124	
1.00000	10.977411	58.452083	5.960639
139.134627	20.901674	1577.202	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.915238	-71.995343	-1.029756
-155.113848	-3.925339	-290.194120	
0.25000	-0.915238	-71.979206	-1.029756
-155.143138	-3.906331	-315.544548	
0.50000	-0.915238	-71.964921	-1.029756
-155.174927	-3.922694	-340.895034	
0.75000	-0.915238	-71.951342	-1.029756
-155.208600	-3.975586	-366.245562	
1.00000	-0.915238	-71.938720	-1.029756
-155.248697	-4.055829	-391.599490	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.645024	73.625768	5.546941
240.453474	29.469576	2317.775	
0.25000	7.645024	73.639128	5.546941
240.453379	24.297594	2380.838	
0.50000	7.645024	73.653241	5.546941
240.420290	20.194508	2401.711	
0.75000	7.645024	73.667849	5.546941
240.389264	18.960624	2447.637	
1.00000	7.645024	73.684120	5.546941
240.360425	18.254803	2515.288	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.521749	-102.272198	-3.336254
-198.943355	-21.396253	-546.637250	
0.25000	-5.521749	-102.256661	-3.336254
-198.972645	-19.205636	-593.994716	
0.50000	-5.521749	-102.242377	-3.336254
-199.004433	-18.191807	-641.152187	
0.75000	-5.521749	-102.228797	-3.336254
-199.038107	-18.620795	-688.315574	
1.00000	-5.521749	-102.216175	-3.336254
-199.078204	-17.972325	-735.483796	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.361693	196.304984	7.263083
322.148770	69.317075	4057.506	
0.25000	9.361693	219.561669	7.263083
294.841122	66.515245	4126.998	
0.50000	9.361693	244.190272	7.263083
268.030663	65.452262	4170.578	
0.75000	9.361693	269.740325	7.263083
243.365598	67.205333	4194.123	
1.00000	9.361693	296.824816	7.263083
243.365598	69.925125	4199.673	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.022226	-319.966967	-7.276801
-287.665204	-22.511281	-750.738472	
0.25000	-10.022226	-293.166031	-7.276801
-298.615083	-20.854629	-816.081465	
0.50000	-10.022226	-268.283939	-7.276801
-328.087234	-20.376229	-881.424463	
0.75000	-10.022226	-244.720867	-7.276801
-355.473537	-20.622380	-946.774502	
1.00000	-10.022226	-222.928420	-7.276801
-381.803251	-21.469987	-1012.127	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 386

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.672503	175.565568	8.383853
321.172612	59.661152	3787.035	
0.25000	8.672503	194.936893	8.383853
298.427096	56.989825	3856.056	
0.50000	8.672503	215.450937	8.383853
276.103202	55.679113	3903.873	
0.75000	8.672503	236.732489	8.383853
255.551291	56.965497	3935.219	
1.00000	8.672503	259.292130	8.383853
255.551291	59.036369	3951.481	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.088748	-278.154938	-7.667007
-263.298790	-51.055806	-809.699440	
0.25000	-10.088748	-255.831480	-7.667007
-272.419336	-49.403289	-879.162598	
0.50000	-10.088748	-235.106296	-7.667007
-296.967745	-49.068441	-948.625755	
0.75000	-10.088748	-215.479771	-7.667007
-319.778775	-49.891643	-1018.100	
1.00000	-10.088748	-197.328063	-7.667007
-341.709735	-51.690589	-1087.582	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.478957	18.251300	3.848234
77.764887	2.865486	577.193583	
0.25000	1.478957	18.264666	3.848234
77.724716	2.440909	593.052829	
0.50000	1.478957	18.278784	3.848234
77.691531	2.032567	610.988470	
0.75000	1.478957	18.293398	3.848234
77.660448	1.873783	628.249669	
1.00000	1.478957	18.309679	3.848234
77.631552	2.850748	645.559869	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.673182	-16.761498	-1.322504
-38.319277	-49.499594	-279.841184	
0.25000	-1.673182	-16.745351	-1.322504
-38.348628	-49.978915	-302.469464	
0.50000	-1.673182	-16.731060	-1.322504
-38.380476	-51.077183	-325.097744	
0.75000	-1.673182	-16.717475	-1.322504
-38.414209	-52.909651	-347.726024	
1.00000	-1.673182	-16.704921	-1.322504
-38.454383	-55.315980	-370.367404	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.588520	34.432257	6.068732
160.831224	6.313272	1260.820	
0.25000	2.588520	34.445618	6.068732
160.791130	5.442936	1289.668	
0.50000	2.588520	34.459731	6.068732
160.758041	4.594572	1320.012	
0.75000	2.588520	34.473339	6.068732
160.727015	3.859446	1352.067	
1.00000	2.588520	34.490609	6.068732
160.698175	4.480372	1386.002	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.277257	-40.040340	-6.405360
-67.508444	-84.696114	-504.877636	
0.25000	-9.277257	-40.024203	-6.405360
-67.537734	-80.666083	-546.441475	
0.50000	-9.277257	-40.009919	-6.405360
-67.569522	-79.255547	-588.005314	
0.75000	-9.277257	-39.996339	-6.405360
-67.603196	-80.604537	-629.569580	
1.00000	-9.277257	-39.983717	-6.405360
-67.643293	-83.473602	-671.151694	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 387

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.828443	59.255217	6.216187
253.661175	12.091226	2252.563	
0.25000	3.828443	59.267241	6.216187
253.625090	10.544019	2282.490	
0.50000	3.828443	59.279943	6.216187
253.595310	9.461620	2321.022	
0.75000	3.828443	59.293090	6.216187
253.567387	8.568438	2369.307	
1.00000	3.828443	59.307734	6.216187
253.541431	8.891475	2428.479	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.804586	-81.243818	-4.070873
-161.301612	-68.892144	-700.237616	
0.25000	-5.804586	-81.229294	-4.070873
-161.327973	-67.296248	-758.976529	
0.50000	-5.804586	-81.216438	-4.070873
-161.356583	-67.310732	-817.715441	
0.75000	-5.804586	-81.204216	-4.070873
-161.386889	-68.655196	-876.463436	
1.00000	-5.804586	-81.192857	-4.070873
-161.422976	-70.911850	-935.229173	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.663791	142.684305	9.872657
366.303348	49.968724	3355.926	
0.25000	10.663791	156.305540	9.872657
332.970313	45.735807	3411.507	
0.50000	10.663791	170.711460	9.872657
304.185841	42.820094	3456.757	
0.75000	10.663791	185.639535	9.872657
280.675195	42.537331	3496.416	
1.00000	10.663791	201.872930	9.872657
263.746703	43.940882	3530.429	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.260882	-221.413184	-5.845271
-233.279586	-60.022411	-798.185447	
0.25000	-7.260882	-205.330635	-5.845271
-256.840391	-58.883821	-866.106704	
0.50000	-7.260882	-190.762547	-5.845271
-263.434877	-59.149821	-934.027960	
0.75000	-7.260882	-176.939316	-5.845271
-313.185876	-60.516307	-1001.955	
1.00000	-7.260882	-164.122420	-5.845271
-348.098418	-62.871816	-1069.898	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.421847	147.982271	1.808373
142.336917	56.953676	2362.465	
0.25000	4.421847	168.503388	1.808373
145.346150	62.801762	2437.687	
0.50000	4.421847	186.418270	1.808373
147.480891	69.270962	2478.220	
0.75000	4.421847	207.282506	1.808373
148.669040	76.389880	2483.203	
1.00000	4.421847	228.590577	1.808373
148.985491	84.005861	2454.711	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.257518	-218.057698	-7.075562
-277.988549	-10.926841	-428.785468	
0.25000	-14.257518	-196.759762	-7.075562
-272.390446	-10.573213	-466.559725	
0.50000	-14.257518	-176.079934	-7.075562
-265.916975	-10.310227	-504.951248	
0.75000	-14.257518	-161.144477	-7.075562
-258.498664	-10.087249	-542.801998	
1.00000	-14.257518	-138.473232	-7.075562
-250.207778	-11.526733	-580.547189	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 388

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.515147	228.894913	6.526804
240.132790	109.499578	3850.738	
0.25000	13.515147	251.459914	6.526804
241.179071	110.725185	3943.080	
0.50000	13.515147	275.744405	6.526804
241.211066	112.511240	4003.181	
0.75000	13.515147	301.231124	6.526804
241.211066	117.444884	4036.252	
1.00000	13.515147	327.325961	6.526804
241.211066	123.288800	4037.032	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.718150	-316.115755	-8.543924
-377.625270	-12.355304	-761.020758	
0.25000	-15.718150	-289.991336	-8.543924
-375.358725	-13.045576	-827.839048	
0.50000	-15.718150	-264.693719	-8.543924
-372.076858	-14.392593	-895.643809	
0.75000	-15.718150	-240.764466	-8.543924
-368.764862	-15.879273	-962.585819	
1.00000	-15.718150	-218.720200	-8.543924
-365.452036	-17.503626	-1029.474	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.934983	236.977672	5.860960
301.984315	95.839535	4533.378	
0.25000	10.934983	257.697877	5.860960
302.709063	97.387677	4645.327	
0.50000	10.934983	280.001362	5.860960
302.709537	99.637633	4727.147	
0.75000	10.934983	303.413139	5.860960
302.709537	104.422861	4782.223	
1.00000	10.934983	327.389204	5.860960
302.709537	109.985399	4808.455	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.158005	-323.596310	-8.010370
-387.617111	-16.677915	-1015.687	
0.25000	-15.158005	-299.589177	-8.010370
-385.946007	-17.464634	-1104.288	
0.50000	-15.158005	-276.346082	-8.010370
-383.349680	-18.541268	-1193.728	
0.75000	-15.158005	-254.364374	-8.010370
-381.154751	-20.075290	-1282.448	
1.00000	-15.158005	-234.123324	-8.010370
-378.758897	-22.306303	-1371.118	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.222291	214.433772	6.929939
310.875359	83.003048	4325.018	
0.25000	10.222291	231.705005	6.929939
311.479470	83.954559	4437.004	
0.50000	10.222291	250.295974	6.929939
311.479865	85.500677	4523.906	
0.75000	10.222291	269.810747	6.929939
311.479865	89.176384	4588.502	
1.00000	10.222291	289.795896	6.929939
311.479865	93.489815	4629.289	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.395789	-288.158442	-9.596453
-347.357349	-50.340647	-1082.747	
0.25000	-17.395789	-268.147405	-9.596453
-345.964407	-49.428553	-1176.189	
0.50000	-17.395789	-248.773228	-9.596453
-343.966959	-49.274320	-1270.312	
0.75000	-17.395789	-230.450474	-9.596453
-341.970677	-49.787379	-1363.841	
1.00000	-17.395789	-213.578638	-9.596453
-339.973624	-51.345441	-1457.326	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 389

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.514275	66.694189	5.064100
134.453794	46.206907	1515.724	
0.25000	9.514275	66.701026	5.064100
134.436294	40.630464	1527.758	
0.50000	9.514275	66.708459	5.064100
134.419541	35.405561	1550.534	
0.75000	9.514275	66.716323	5.064100
134.403973	32.110030	1587.409	
1.00000	9.514275	66.724472	5.064100
134.390016	29.161418	1632.000	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.138819	-69.416962	-1.138206
-125.094756	-6.479778	-378.040579	
0.25000	-1.138819	-69.408752	-1.138206
-125.109690	-6.258165	-410.999259	
0.50000	-1.138819	-69.400865	-1.138206
-125.126243	-6.095268	-444.069024	
0.75000	-1.138819	-69.393462	-1.138206
-125.143994	-5.959014	-477.027327	
1.00000	-1.138819	-69.386682	-1.138206
-125.162494	-5.841904	-510.007610	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.433621	94.816465	5.064431
224.460963	37.535060	2512.124	
0.25000	7.433621	94.823302	5.064431
224.443455	33.367739	2552.568	
0.50000	7.433621	94.830736	5.064431
224.426694	29.397912	2602.510	
0.75000	7.433621	94.838601	5.064431
224.411118	27.138488	2665.787	
1.00000	7.433621	94.846751	5.064431
224.397157	25.171940	2738.382	

```
 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.398097 -103.710927   -3.069083
-165.249958  -27.378658 -720.151366
 0.25000   -5.398097 -103.702716   -3.069083
-165.264897  -25.536241 -782.238405
 0.50000   -5.398097 -103.694829   -3.069083
-165.281458  -24.338331 -844.428171
 0.75000   -5.398097 -103.687425   -3.069083
-165.299217  -23.652269 -906.600184
 1.00000   -5.398097 -103.680644   -3.069083
-165.317725  -23.463291 -968.753555

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.142134  197.931262    6.935743
328.958710   82.632300   4056.994
 0.25000   11.142134  216.066316    6.935743
300.314856   81.589828   4167.520
 0.50000   11.142134  235.699764    6.935743
272.648494   80.866666   4250.587
 0.75000   11.142134  256.384400    6.935743
247.227774   81.600056   4308.003
 1.00000   11.142134  277.703380    6.935743
240.177163   82.745173   4339.423

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.601508 -279.087856   -6.802835
-244.860861  -29.754755 -988.376106
 0.25000  -11.601508 -257.675016   -6.802835
-258.702920  -28.738032  -1074.719
 0.50000  -11.601508 -237.012052   -6.802835
-287.764660  -28.302603  -1160.645
 0.75000  -11.601508 -217.580318   -6.802835
-319.148280  -28.431295  -1246.583
 1.00000  -11.601508 -199.713877   -6.802835
-351.392040  -28.960747  -1332.421
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                390

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.473724  181.817518    8.089043
331.522845   71.322918   3877.199
 0.25000   10.473724  196.925327    8.089043
307.660447   70.096787   3988.154
 0.50000   10.473724  213.281407    8.089043
284.612371   69.228625   4076.180
 0.75000   10.473724  230.513222    8.089043
263.435076   69.642328   4142.896
 1.00000   10.473724  248.273451    8.089043
257.561408   70.535771   4188.135

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.588233 -249.827282   -7.454301
-232.656243  -61.222846   -1065.440
 0.25000  -11.588233 -231.988841   -7.454301
-244.187677  -60.272329   -1157.133
 0.50000  -11.588233 -214.775100   -7.454301
-268.398204  -60.020519   -1248.471
 0.75000  -11.588233 -198.587063   -7.454301
-294.543025  -60.501686   -1339.830
 1.00000  -11.588233 -183.703028   -7.454301
-321.404405  -61.741900   -1431.115

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.668162   25.744624    3.901798
86.738909    4.540175   710.884150
 0.25000    2.668162   25.751464    3.901798
86.721375    3.936184   739.057185
 0.50000    2.668162   25.758899    3.901798
86.704590    3.309109   767.396901
 0.75000    2.668162   25.766767    3.901798
86.688992    3.304767   795.801380
 1.00000    2.668162   25.774919    3.901798
86.675010    3.963476   824.213029

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -1.961987  -25.704211   -2.085253
-47.548709  -54.991688 -370.856834
 0.25000   -1.961987  -25.695098   -2.085253
-47.563669  -55.846174 -400.925653
 0.50000   -1.961987  -25.688108   -2.085253
-47.580251  -57.122155 -431.327944
 0.75000   -1.961987  -25.680702   -2.085253
-47.598033  -58.976700 -461.441044
 1.00000   -1.961987  -25.673919   -2.085253
-47.616565  -61.406770 -491.533389

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.712930   49.038243    6.187961
165.679706   8.873317   1493.514
 0.25000    3.712930   49.045077    6.187961
165.662239   7.791991   1544.565
 0.50000    3.712930   49.052508    6.187961
165.645518   6.933966   1595.971
 0.75000    3.712930   49.060389    6.187961
165.629980   6.393135   1647.841
 1.00000    3.712930   49.068515    6.187961
165.616051   6.699127   1700.557

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.104732  -52.766161   -6.422257
-80.240934  -94.850673 -672.430512
 0.25000   -9.104732  -52.757954   -6.422257
-80.255840  -92.494012 -727.942640
 0.50000   -9.104732  -52.750071   -6.422257
-80.272365  -91.335023 -783.477268
 0.75000   -9.104732  -52.742671   -6.422257
-80.290086  -91.898559 -839.973587
 1.00000   -9.104732  -52.735893   -6.422257
-80.308553  -93.639930 -895.546309
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                391

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.481163   84.716186    6.404590
246.808702   21.014137   2526.496
 0.25000    5.481163   84.790025    6.404590
246.619973   18.726661   2594.005
 0.50000    5.481163   84.870261    6.404590
246.439298   16.598952   2665.010
 0.75000    5.481163   84.955172    6.404590
246.271404   14.747978   2739.445
 1.00000    5.481163   85.043155    6.404590
246.120900   13.911474   2817.288

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.595857  -93.189197   -4.693039
-148.024789  -80.957801 -922.029082
 0.25000   -6.595857  -93.100556   -4.693039
-148.185851  -79.809112 -999.469070
 0.50000   -6.595857  -93.015410   -4.693039
-148.364392  -79.573078 -1076.942
 0.75000   -6.595857  -92.935470   -4.693039
-148.555863  -80.185077  -1154.432
 1.00000   -6.595857  -92.862270   -4.693039
-148.755400  -81.808653  -1231.913

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.766586  155.724899    9.234640
356.998786   62.769589   3502.251
 0.25000   11.766586  166.640304    9.234640
333.923210   59.574757   3601.284
 0.50000   11.766586  178.485693    9.234640
311.769431   56.802495   3685.891
 0.75000   11.766586  190.994012    9.234640
291.264965   55.261582   3758.092
 1.00000   11.766586  203.925696    9.234640
273.095376   54.784518   3816.329

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.762798 -207.349785   -6.308298
-221.478798  -71.886353  -1050.992
 0.25000   -8.762798 -194.327733   -6.308298
-241.546650  -71.165783  -1140.211
 0.50000   -8.762798 -181.806759   -6.308298
-263.907550  -71.272413  -1229.669
 0.75000   -8.762798 -170.042305   -6.308298
-287.856353  -72.164741  -1319.028
 1.00000   -8.762798 -159.257128   -6.308298
-312.820316  -73.934090  -1408.417

 COMB      DB ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   13.219487  251.831651    9.872657
366.303348  101.403969   4602.553
 0.25000   13.219487  282.112436    9.872657
332.970313   98.855822   4673.654
 0.50000   13.219487  314.256508    9.872657
304.185841   97.912789   4714.625
 0.75000   13.219487  347.673973    9.872657
300.298719  102.047279   4732.165
 1.00000   13.219487  381.406914    9.872657
300.298719  108.208256   4727.805

 COMB      DB ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -14.522136 -382.250611   -10.058454
-426.463359  -84.696114 -823.499603
 0.25000  -14.522136 -350.467311   -10.058454
-426.463359  -80.666083 -894.725679
 0.50000  -14.522136 -320.712475   -10.058454
-426.463359  -79.255547 -965.953843
 0.75000  -14.522136 -292.635338   -10.058454
-426.463359  -80.604537  -1037.180
 1.00000  -14.522136 -266.785468   -10.058454
-426.463359  -83.473602  -1108.429
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                392

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   13.515147  236.977672    9.236640
356.998786  109.499578   4533.378
 0.25000   13.515147  257.697877    9.236640
333.923210  110.725185   4645.327
 0.50000   13.515147  280.001362    9.236640
311.769431  112.511240   4727.147
 0.75000   13.515147  303.413129    9.236640
311.479865  117.444884   4782.223
 1.00000   13.515147  327.389204    9.236640
311.479865  123.288800   4808.455

 COMB      DL ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -17.395789 -323.596310   -9.596453
-387.617111  -94.850673  -1082.747
 0.25000  -17.395789 -299.589137   -9.596453
-385.946007  -92.494012  -1176.189
 0.50000  -17.395789 -276.346082   -9.596453
-383.549680  -91.335023  -1270.312
 0.75000  -17.395789 -254.364374   -9.596453
-381.154751  -91.898559  -1363.841
 1.00000  -17.395789 -234.123324   -9.596453
-378.758897  -93.639930  -1457.326

 COMB      CAR ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   13.515147  251.831651    9.872657
366.303348  109.499578   4602.553
 0.25000   13.515147  282.112436    9.872657
333.923210  110.725185   4673.654
 0.50000   13.515147  314.256508    9.872657
311.769431  112.511240   4727.147
 0.75000   13.515147  347.673973    9.872657
311.479865  117.444884   4782.223
 1.00000   13.515147  381.406914    9.872657
311.479865  123.288800   4808.455

 COMB      CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -17.395789 -382.250611   -10.058454
-426.463359  -94.850673  -1082.747
 0.25000  -17.395789 -350.467311   -10.058454
-426.463359  -92.494012  -1176.189
 0.50000  -17.395789 -320.712475   -10.058454
-426.463359  -91.335023  -1270.312
 0.75000  -17.395789 -292.635338   -10.058454
-426.463359  -91.898559  -1363.841
 1.00000  -17.395789 -266.785468   -10.058454
-426.463359  -93.639930  -1457.326

 COMB    DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   13.515147  251.831651    9.872657
366.303348  109.499578   4602.553
 0.25000   13.515147  282.112436    9.872657
333.923210  110.725185   4673.654
 0.50000   13.515147  314.256508    9.872657
311.769431  112.511240   4727.147
 0.75000   13.515147  347.673973    9.872657
311.479865  117.444884   4782.223
 1.00000   13.515147  381.406914    9.872657
311.479865  123.288800   4808.455

 COMB    DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -17.395789 -382.250611   -10.058454
-426.463359  -94.850673  -1082.747
 0.25000  -17.395789 -350.467311   -10.058454
-426.463359  -92.494012  -1176.189
 0.50000  -17.395789 -320.712475   -10.058454
-426.463359  -91.335023  -1270.312
 0.75000  -17.395789 -292.635338   -10.058454
-426.463359  -91.898559  -1363.841
 1.00000  -17.395789 -266.785468   -10.058454
-426.463359  -93.639930  -1457.326
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                393

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      5 ================== LENGTH
=    4.988074

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.720976  199.796418    4.301085
276.923859   76.677035   2539.893
 0.25000    3.720976  222.984619    4.301085
276.923859   74.283223   2550.289
 0.50000    3.720976  247.789041    4.301085
276.923859   72.734593   2532.766
 0.75000    3.720976  273.694399    4.301085
276.923859   72.192770   2478.974
 1.00000    3.720976  299.237875    4.301085
276.923859   72.487576   2389.391

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.962534 -243.713164   -3.135659
-153.606107   -6.986569 -441.309518
 0.25000   -9.962534 -218.469164   -3.135659
-153.606107   -9.457247 -474.507995
 0.50000   -9.962534 -193.277704   -3.135659
-153.606107  -11.947128 -507.706471
 0.75000   -9.962534 -169.570554   -3.135659
-153.606107  -14.459932 -540.904947
 1.00000   -9.962534 -147.851112   -3.135659
-153.606107  -16.958956 -574.103423

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   13.627951  303.436337    7.173702
384.485783  108.082173   4123.598
 0.25000   13.627951  332.604123    7.173702
384.485783  104.434278   4093.784
 0.50000   13.627951  363.727215    7.173702
384.485783  102.247932   4042.730
 0.75000   13.627951  396.193080    7.173702
384.485783  101.546987   3969.620
 1.00000   13.627951  429.026284    7.173702
384.485783  102.365584   3865.831

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.231106 -338.678946   -5.644060
-246.726850  -11.138946 -783.607579
 0.25000  -11.231106 -306.201446   -5.644060
-246.726850  -13.796303 -841.236171
 0.50000  -11.231106 -274.580129   -5.644060
-246.726850  -16.507591 -898.864762
 0.75000  -11.231106 -244.768263   -5.644060
-246.726850  -19.250514 -956.493353
 1.00000  -11.231106 -217.364395   -5.644060
-246.726850  -22.013707  -1014.122

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.791453  313.274792    6.622622
410.736001   95.540174   4728.029
 0.25000    9.791453  340.050761    6.622622
410.736001   92.637026   4675.583
 0.50000    9.791453  368.618165    6.622622
410.736001   90.974620   4607.860
 0.75000    9.791453  398.414824    6.622622
410.736001   90.644012   4522.176
 1.00000    9.791453  428.611062    6.622622
410.736001   91.629307   4412.960

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.778720 -324.755538   -5.213633
-324.482419  -14.470650  -1032.759
 0.25000  -10.778720 -294.884219   -5.213633
-324.482419  -14.574422  -1105.564
 0.50000  -10.778720 -265.859049   -5.213633
-324.482419  -16.699957  -1178.368
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                394

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000  -10.778720 -238.490272   -5.213633
-324.482419  -18.961797  -1251.172
 1.00000  -10.778720 -213.327399   -5.213633
-324.482419  -22.124014  -1323.976

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.344360  273.938594    7.306409
356.892326   81.312951   4460.182
 0.25000    9.344360  296.262511    7.306409
356.892326   78.620616   4406.775
 0.50000    9.344360  320.079896    7.306409
356.892326   76.963108   4340.978
 0.75000    9.344360  344.922047    7.306409
356.892326   77.225569   4260.233
 1.00000    9.344360  370.099188    7.306409
356.892326   79.358725   4160.361

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -14.414475 -275.253803   -6.726758
-324.229218  -40.365294  -1108.510
 0.25000  -14.414475 -250.347587   -6.726758
-324.229218  -40.732225  -1182.602
 0.50000  -14.414475 -226.148536   -6.726758
-324.229218  -41.722473  -1256.694
 0.75000  -14.414475 -203.330332   -6.726758
-324.229218  -43.431566  -1330.785
 1.00000  -14.414475 -182.351117   -6.726758
-324.229218  -46.388991  -1404.877

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.821037  85.595850    2.391751
144.242413   21.034887   1577.192
 0.25000   10.821037  85.608821    2.391751
144.202049   20.093165   1517.902
 0.50000   10.821037  85.622570    2.391751
144.168049   19.514701   1475.573
 0.75000   10.821037  85.636839    2.391751
144.135846   19.415802   1458.776
 1.00000   10.821037  85.652791    2.391751
144.106023   20.159171   1461.207

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -1.024307  -50.927836   -2.138079
-152.233696   -4.069278 -391.648918
 0.25000   -1.024307  -50.812003   -2.138079
-152.262584   -3.983609 -418.673245
 0.50000   -1.024307  -50.898015   -2.138079
-152.293755   -3.946420 -445.697571
 0.75000   -1.024307  -50.884724   -2.138079
-152.327555   -3.931743 -472.721898
 1.00000   -1.024307  -50.872384   -2.138079
-152.367826   -3.931989 -499.746224

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.667464  118.550162    3.251778
196.887436   18.535737   2515.252
 0.25000    7.667464  118.563134    3.251778
196.847072   18.041727   2431.117
 0.50000    7.667464  118.576883    3.251778
196.813072   17.820112   2368.584
 0.75000    7.667464  118.591151    3.251778
196.780869   18.209820   2334.672
 1.00000    7.667464  118.607104    3.251778
196.751046   19.918973   2323.115

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.620314  -63.890128   -3.203359
-253.495020  -18.143292 -735.468480
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                395

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -5.620314  -63.874295   -3.203359
-253.523908  -17.196903 -783.394284
 0.50000   -5.620314  -63.860306   -3.203359
-253.555079  -16.637663 -831.320089
 0.75000   -5.620314  -63.847015   -3.203359
-253.588879  -16.501002  -879.245893
 1.00000   -5.620314  -63.834676   -3.203359
-253.629150  -17.447587  -927.171697

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.362827  259.636063    6.032480
372.089370   70.095981   4199.654
 0.25000    9.362827  282.124061    6.032480
344.856013   67.904618   4150.011
 0.50000    9.362827  306.042146    6.032480
317.865921   66.491139   4087.447
 0.75000    9.362827  330.929350    6.032480
288.698512   66.521607   4009.485
 1.00000    9.362827  357.389545    6.032480
274.804899   68.389151   3911.642

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.068017 -265.336621   -5.168229
-259.147702  -21.334238  -1012.243
 0.25000  -10.068017 -239.117830   -5.168229
-262.681005  -21.796038  -1081.472
 0.50000  -10.068017 -214.801099   -5.168229
-293.393821  -22.605622  -1150.701
 0.75000  -10.068017 -191.787451   -5.168229
-321.839265  -23.796528  -1219.931
 1.00000  -10.068017 -170.530234   -5.168229
-347.461622  -25.668528  -1289.160

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.931565  225.996603    6.544649
317.256981   59.729330   3951.429
 0.25000    8.931565  244.727661    6.544649
294.573344   57.658749   3902.421
 0.50000    8.931565  264.649888    6.544649
272.092332   57.214794   3842.596
 0.75000    8.931565  285.379330    6.544649
247.797753   58.099255   3770.177
 1.00000    8.931565  307.418973    6.544649
236.225267   60.426160   3681.712

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.104121 -224.849390   -6.659841
-261.184980  -51.447089  -1087.571
 0.25000  -10.104121 -203.010822   -6.659841
-264.127994  -50.398349  -1157.588
 0.50000  -10.104121 -182.756548   -6.659841
-289.659821  -50.080953  -1227.605
 0.75000  -10.104121 -163.587657   -6.659841
-313.403024  -50.599698  -1297.622
 1.00000  -10.104121 -145.881761   -6.659841
-334.744801  -52.410941  -1367.639

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    1.888945   15.032822    2.010263
 9.276276   2.570345   645.499787
 0.25000    1.888945   15.045799    2.010263
 9.235835   4.007279   635.246300
 0.50000    1.888945   15.059554    2.010263
 9.201775   5.551225   625.230071
 0.75000    1.888945   15.073829    2.010263
 9.169512   7.191791   615.267858
 1.00000    1.888945   15.089791    2.010263
 9.139630   8.958303   605.761146
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                396

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.054347  -6.177263   -3.474995
-65.466342  -55.062486 -370.192736
 0.25000   -2.054347  -6.161419   -3.474995
-65.495286  -52.774484 -388.185995
 0.50000   -2.054347  -6.147425   -3.474995
-65.526550  -51.099447 -406.179254
 0.75000   -2.054347  -6.134127   -3.474995
-65.560411  -50.106444 -424.172512
 1.00000   -2.054347  -6.121782   -3.474995
-65.600758  -49.798797 -442.165771

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.243655   38.750153    4.204682
43.679528   4.543541   1385.899
 0.25000    3.243655   38.763124    4.204682
43.639164   5.799656   1358.949
 0.50000    3.243655   38.776873    4.204682
43.605164   7.216127   1333.594
 0.75000    3.243655   38.791142    4.204682
43.572960   9.371351   1310.115
 1.00000    3.243655   38.807094    4.204682
43.543138   13.310234  1289.362
```

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.591014	-15.580263	-6.098879
-144.778184	-83.132283	-670.896303	
0.25000	-9.591014	-15.564430	-6.098879
-144.807071	-79.501693	-706.363920	
0.50000	-9.591014	-15.550442	-6.098879
-144.838243	-77.179273	-741.631537	
0.75000	-9.591014	-15.537150	-6.098879
-144.872043	-76.409724	-777.299154	
1.00000	-9.591014	-15.524811	-6.098879
-144.912314	-77.129793	-812.766771	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.329026	88.715665	3.974587
134.543809	8.833517	2428.377	
0.25000	4.329026	88.727339	3.974587
134.507481	9.990951	2366.419	
0.50000	4.329026	88.739713	3.974587
134.476881	11.422605	2315.275	
0.75000	4.329026	88.752555	3.974587
134.447898	13.328103	2275.849	
1.00000	4.329026	88.766912	3.974587
134.421058	16.275671	2248.525	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.273043	-41.500669	-5.478996
-249.083151	-70.859046	-935.013165	
0.25000	-6.273043	-41.486419	-5.478996
-249.109150	-67.614255	-989.109597	
0.50000	-6.273043	-41.473830	-5.478996
-249.137204	-65.361595	-1043.206	
0.75000	-6.273043	-41.461867	-5.478996
-249.167624	-64.209684	-1097.302	
1.00000	-6.273043	-41.450762	-5.478996
-249.203868	-64.228504	-1151.401	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.988000	186.648459	5.978018
316.587646	43.896989	3530.290	
0.25000	10.988000	199.846658	5.978018
281.377012	43.658095	3473.937	
0.50000	10.988000	213.859669	5.978018
251.259724	44.037884	3414.812	
0.75000	10.988000	228.420923	5.978018
225.393804	45.512094	3353.695	
1.00000	10.988000	244.309833	5.978018
201.881062	48.293008	3286.277	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
397

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.693063	-171.674135	-6.756335
-264.869828	-62.646794	-1069.809	
0.25000	-7.693063	-155.916654	-6.756335
-263.306065	-60.573390	-1136.196	
0.50000	-7.693063	-141.664800	-6.756335
-308.115111	-59.333162	-1202.584	
0.75000	-7.693063	-128.149129	-6.756335
-337.070477	-59.012113	-1268.971	
1.00000	-7.693063	-115.632695	-6.756335
-370.609237	-60.043099	-1335.359	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.994826	178.116828	5.568827
250.192393	82.690341	2454.893	
0.25000	4.994826	197.313968	5.568827
258.261568	80.947196	2374.933	
0.50000	4.994826	217.882750	5.568827
265.434607	79.782668	2460.909	
0.75000	4.994826	239.386523	5.568827
271.640465	79.313730	2412.358	
1.00000	4.994826	261.300593	5.568827
276.948826	79.428530	2330.337	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.434292	-193.190332	-2.765502
-133.246301	-10.484695	-580.796290	
0.25000	-14.434292	-173.092557	-2.765502
-132.707214	-13.886970	-623.847003	
0.50000	-14.434292	-153.551383	-2.765502
-131.271537	-17.313804	-666.885485	
0.75000	-14.434292	-135.102860	-2.765502
-128.869586	-20.763807	-709.769653	
1.00000	-14.434292	-118.156174	-2.765502
-125.569685	-24.255157	-753.179851	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.117295	283.091332	8.164059
368.133990	121.893584	4037.246	
0.25000	14.117295	306.450926	8.164059
371.447173	119.965949	4030.260	
0.50000	14.117295	331.523246	8.164059
374.760668	118.731978	3991.633	
0.75000	14.117295	357.771801	8.164059
377.930527	118.435840	3927.565	
1.00000	14.117295	384.458636	8.164059
379.820045	118.979740	3833.094	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.064145	-272.415259	-5.360446
-217.036502	-16.221916	-1029.829	
0.25000	-16.064145	-247.726034	-5.360446
-217.036502	-19.630508	-1104.651	
0.50000	-16.064145	-223.749408	-5.360446
-217.036502	-23.142360	-1179.475	
0.75000	-16.064145	-201.568555	-5.360446
-216.893715	-26.754662	-1254.090	
1.00000	-16.064145	-180.401095	-5.360446
-215.470051	-31.239923	-1329.341	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.619106	307.503352	7.745054
383.172628	109.067353	4808.599	
0.25000	11.619106	328.951889	7.745054
385.568739	107.042812	4790.032	
0.50000	11.619106	351.977339	7.745054
387.965223	105.765841	4742.295	
0.75000	11.619106	376.087292	7.745054
390.315778	105.343635	4669.742	
1.00000	11.619106	400.606111	7.745054
391.638477	105.760267	4569.845	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
398

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.564626	-266.341467	-5.212198
-286.627231	-21.445160	-1371.380	
0.25000	-15.564626	-243.648776	-5.212198
-286.627231	-23.800613	-1467.188	
0.50000	-15.564626	-221.614670	-5.212198
-286.627231	-26.558702	-1562.967	
0.75000	-15.564626	-200.857746	-5.212198
-286.582166	-29.799521	-1658.592	
1.00000	-15.564626	-181.790288	-5.212198
-285.508754	-33.771500	-1754.727	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.101440	278.642922	8.314039
330.844403	93.316361	4629.329	
0.25000	11.101440	296.521254	8.314039
332.841671	91.392314	4609.556	
0.50000	11.101440	315.714014	8.314039
334.839249	90.444589	4565.525	
0.75000	11.101440	335.810756	8.314039
336.798543	90.941246	4500.722	
1.00000	11.101440	356.248307	8.314039
337.901073	92.355749	4413.166	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.932494	-228.731013	-6.899315
-296.978403	-51.040234	-1457.422	
0.25000	-17.932494	-209.815623	-6.899315
-296.978403	-51.716169	-1554.494	
0.50000	-17.932494	-191.449193	-6.899315
-296.978403	-53.317475	-1651.548	
0.75000	-17.932494	-174.147353	-6.899315
-296.940839	-55.800048	-1748.462	
1.00000	-17.932494	-158.253759	-6.899315
-296.046102	-59.282237	-1845.807	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.463784	94.102717	2.072346
128.409656	29.375771	1631.998	
0.25000	9.463784	94.109772	2.072346
128.391242	29.218175	1593.727	
0.50000	9.463784	94.117416	2.072346
128.373582	29.198386	1565.027	
0.75000	9.463784	94.125491	2.072346
128.357115	29.471117	1551.882	
1.00000	9.463784	94.133805	2.072346
128.342273	30.234669	1549.508	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.280813	-48.452958	-2.320052
-130.733296	-5.876660	-510.063991	
0.25000	-1.280813	-48.445105	-2.320052
-130.747434	-5.551456	-545.075546	
0.50000	-1.280813	-48.437570	-2.320052
-130.763189	-5.322794	-580.083281	
0.75000	-1.280813	-48.430513	-2.320052
-130.780143	-5.215098	-615.089643	
1.00000	-1.280813	-48.424082	-2.320052
-130.797850	-6.034979	-650.073038	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.665640	141.326174	3.181714
168.760238	25.862633	2738.316	
0.25000	7.665640	141.333229	3.181714
168.741816	25.277390	2689.043	
0.50000	7.665640	141.340874	3.181714
168.724149	24.977727	2649.308	
0.75000	7.665640	141.348950	3.181714
168.707674	25.433999	2623.837	
1.00000	7.665640	141.357265	3.181714
168.692826	26.504765	2609.281	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
399

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.705563	-64.616887	-3.435935
-226.655010	-23.936602	-968.703917	
0.25000	-5.705563	-64.609242	-3.435935
-226.669155	-22.804190	-1031.919	
0.50000	-5.705563	-64.601497	-3.435935
-226.684918	-22.021432	-1095.051	
0.75000	-5.705563	-64.594438	-3.435935
-226.701880	-22.001700	-1158.226	
1.00000	-5.705563	-64.588007	-3.435935
-226.719595	-23.090333	-1221.325	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.585435	263.342702	6.497251
353.438344	82.625125	4339.473	
0.25000	11.585435	282.097219	6.497251
321.266311	81.238721	4325.072	
0.50000	11.585435	302.319903	6.497251
290.095027	80.248638	4283.996	
0.75000	11.585435	323.592316	6.497251
261.195568	80.177387	4219.897	
1.00000	11.585435	345.362008	6.497251
247.570569	80.903329	4128.874	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.078098	-223.591646	-5.251275
-223.745305	-28.792721	-1332.562	
0.25000	-12.078098	-203.200205	-5.251275
-230.724422	-29.375272	-1423.362	
0.50000	-12.078098	-183.560297	-5.251275
-256.616525	-30.278779	-1514.084	
0.75000	-12.078098	-165.124045	-5.251275
-284.802588	-31.714761	-1605.036	
1.00000	-12.078098	-148.219918	-5.251275
-313.980924	-34.222907	-1695.735	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.153275	238.467800	6.875216
301.155419	71.030543	4188.096	
0.25000	11.153275	254.091667	6.875216
274.353793	69.913926	4173.544	
0.50000	11.153275	270.938623	6.875216
248.385864	69.965745	4136.734	
0.75000	11.153275	288.660078	6.875216
224.310528	70.799952	4079.890	
1.00000	11.153275	306.795803	6.875216
212.959921	72.297308	4002.440	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.192705	-192.362020	-7.138345
-240.994927	-61.850884	-1431.090	
0.25000	-12.192705	-175.374478	-7.138345
-246.809035	-60.682061	-1523.198	
0.50000	-12.192705	-159.013017	-7.138345
-268.379026	-60.449281	-1615.228	
0.75000	-12.192705	-143.654289	-7.138345
-291.860051	-61.026579	-1707.460	
1.00000	-12.192705	-129.571930	-7.138345
-316.167710	-62.571666	-1799.460	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.129001	27.563833	1.981773
8.999690	4.346031	824.070817	
0.25000	3.129001	27.572700	1.981773
8.981244	5.739135	821.833749	
0.50000	3.129001	27.580346	1.981773
8.963553	7.628244	819.623713	
0.75000	3.129001	27.588424	1.981773
8.947058	9.691186	817.437839	
1.00000	3.129001	27.596741	1.981773
8.932189	11.891337	815.375420	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
400

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.439519	-9.369147	-4.491648
-81.727076	-61.732058	-491.302545	
0.25000	-2.439519	-9.361290	-4.491648
-81.741242	-59.239552	-515.619121	
0.50000	-2.439519	-9.353752	-4.491648
-81.757028	-57.480253	-539.940618	
0.75000	-2.439519	-9.346692	-4.491648
-81.774013	-56.171289	-564.244594	
1.00000	-2.439519	-9.340259	-4.491648
-81.791754	-55.233012	-588.563662	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.496280	63.201677	4.489161
36.329196	7.656737	1700.330	
0.25000	4.496280	63.208729	4.489161
36.310814	8.779774	1689.738	
0.50000	4.496280	63.216371	4.489161
36.293185	10.581212	1679.447	
0.75000	4.496280	63.224443	4.489161
36.276746	13.501313	1669.599	
1.00000	4.496280	63.232753	4.489161
36.261931	17.191503	1660.069	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.737447	-21.212128	-7.259397
-162.297999	-94.444048	-895.194036	
0.25000	-9.737447	-21.204275	-7.259397
-162.312109	-90.896491	-943.298272	
0.50000	-9.737447	-21.196746	-7.259397
-162.327834	-88.575268	-995.408794	
0.75000	-9.737447	-21.189692	-7.259397
-162.344756	-87.677990	-1043.699	
1.00000	-9.737447	-21.183264	-7.259397
-162.362430	-87.723594	-1092.038	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.180813	120.890105	4.001891
111.746771	15.021987	2817.065	
0.25000	6.180813	120.966274	4.001891
111.548157	15.680467	2786.040	
0.50000	6.180813	121.048808	4.001891
111.357677	17.034925	2756.316	
0.75000	6.180813	121.135992	4.001891
111.180061	19.206014	2734.760	
1.00000	6.180813	121.225757	4.001891
111.019989	21.941905	2715.342	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.304921	-46.915398	-6.622917
-245.511036	-82.820635	-1231.601	
0.25000	-7.304921	-46.830610	-6.622917
-245.663495	-79.225645	-1303.417	
0.50000	-7.304921	-46.749557	-6.622917
-245.833409	-76.695174	-1375.290	
0.75000	-7.304921	-46.673057	-6.622917
-246.016255	-75.065368	-1447.102	
1.00000	-7.304921	-46.603627	-6.622917
-246.207217	-74.212133	-1518.866	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.438057	205.766640	6.084158
281.346718	55.355890	3816.211	
0.25000	12.438057	217.039973	6.084158
256.522326	55.300519	3796.570	
0.50000	12.438057	229.231323	6.084158
232.618233	56.416312	3761.785	
0.75000	12.438057	242.083924	6.084158
210.378356	58.131217	3716.216	
1.00000	12.438057	255.281195	6.084158
190.494728	60.589950	3657.827	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
401

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.529447	-152.141599	-7.715131
-257.324145	-74.355366	-1408.288	
0.25000	-9.529447	-139.725539	-7.715131
-275.770051	-71.989305	-1495.882	
0.50000	-9.529447	-127.794998	-7.715131
-296.571765	-70.568181	-1583.323	
0.75000	-9.529447	-116.602897	-7.715131
-319.040457	-69.937234	-1671.075	
1.00000	-9.529447	-106.384792	-7.715131
-342.444102	-70.244741	-1758.610	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.627951	313.274792	7.306409
410.736001	108.082173	4728.029	
0.25000	13.627951	340.050761	7.306409
410.736001	104.434278	4675.583	
0.50000	13.627951	368.618165	7.306409
410.736001	102.247932	4607.860	
0.75000	13.627951	398.414824	7.306409
410.736001	101.546987	4522.176	
1.00000	13.627951	429.026284	7.306409
410.736001	102.365584	4412.960	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.414475	-338.678946	-6.756335
-324.482419	-83.132283	-1108.510	
0.25000	-14.414475	-306.201446	-6.756335
-324.482419	-79.501693	-1182.602	
0.50000	-14.414475	-274.580129	-6.756335
-324.482419	-77.179273	-1256.694	
0.75000	-14.414475	-244.768263	-6.756335
-337.070477	-76.409724	-1330.785	
1.00000	-14.414475	-217.364395	-6.756335
-370.609237	-77.129793	-1404.877	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.117295	307.503352	8.314039
383.172628	121.893584	4808.599	
0.25000	14.117295	328.951889	8.314039
385.568739	119.965949	4790.032	
0.50000	14.117295	351.977339	8.314039
387.965223	118.731978	4742.295	
0.75000	14.117295	376.087292	8.314039
390.315778	118.435840	4669.742	
1.00000	14.117295	400.606111	8.314039
391.638477	118.979740	4569.845	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.932494	-272.415259	-7.715131
-296.978403	-94.444048	-1457.422	
0.25000	-17.932494	-247.726034	-7.715131
-296.978403	-90.896491	-1554.494	
0.50000	-17.932494	-223.749408	-7.715131
-296.978403	-88.575268	-1651.548	
0.75000	-17.932494	-201.568555	-7.715131
-319.040457	-87.677990	-1748.462	
1.00000	-17.932494	-181.790288	-7.715131
-342.444102	-87.723594	-1845.807	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.117295	313.274792	8.314039
410.736001	121.893584	4808.599	
0.25000	14.117295	340.050761	8.314039
410.736001	119.965949	4790.032	
0.50000	14.117295	368.618165	8.314039
410.736001	118.731978	4742.295	
0.75000	14.117295	398.414824	8.314039
410.736001	118.435840	4669.742	
1.00000	14.117295	429.026284	8.314039
410.736001	118.979740	4569.845	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
402

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.932494	-338.678946	-7.715131
-324.482419	-94.444048	-1457.422	
0.25000	-17.932494	-306.201446	-7.715131
-324.482419	-90.896491	-1554.494	
0.50000	-17.932494	-274.580129	-7.715131
-324.482419	-88.575268	-1651.548	
0.75000	-17.932494	-244.768263	-7.715131
-337.070477	-87.677990	-1748.462	
1.00000	-17.932494	-217.364395	-7.715131
-370.609237	-87.723594	-1845.807	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.117295	313.274792	8.314039
410.736001	121.893584	4808.599	
0.25000	14.117295	340.050761	8.314039
410.736001	119.965949	4790.032	
0.50000	14.117295	368.618165	8.314039
410.736001	118.731978	4742.295	
0.75000	14.117295	398.414824	8.314039
410.736001	118.435840	4669.742	
1.00000	14.117295	429.026284	8.314039
410.736001	118.979740	4569.845	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.932494	-338.678946	-7.715131
-324.482419	-94.444048	-1457.422	
0.25000	-17.932494	-306.201446	-7.715131
-324.482419	-90.896491	-1554.494	
0.50000	-17.932494	-274.580129	-7.715131
-324.482419	-88.575268	-1651.548	
0.75000	-17.932494	-244.768263	-7.715131
-337.070477	-87.677990	-1748.462	
1.00000	-17.932494	-217.364395	-7.715131
-370.609237	-87.723594	-1845.807	

ELEM 6 ========== LENGTH = 4.987426

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.216867	229.866179	7.388022
403.804355	71.930524	2388.470	
0.25000	4.216867	252.617744	7.388022
403.804355	65.318864	2350.636	
0.50000	4.216867	276.949349	7.388022
403.804355	59.823500	2282.018	
0.75000	4.216867	302.341115	7.388022
403.804355	55.296135	2179.934	
1.00000	4.216867	327.350444	7.388022
403.804355	51.916318	2044.886	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.625330	-215.943205	-0.711777
-49.267327	-16.569298	-574.197930	
0.25000	-9.625330	-191.260772	-0.711777
-49.267327	-20.491969	-615.484724	
0.50000	-9.625330	-166.648189	-0.711777
-49.267327	-24.425302	-656.771543	
0.75000	-9.625330	-143.541922	-0.711777
-49.267327	-28.360062	-698.109259	
1.00000	-9.625330	-122.436922	-0.711777
-49.267327	-32.296434	-739.488362	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.085022	355.735689	9.476559
529.684113	101.654589	3864.907	
0.25000	14.085022	384.376357	9.476559
529.684113	95.188419	3747.976	
0.50000	14.085022	414.927376	9.476559
529.684113	91.728478	3609.091	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
403

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	14.085022	446.775221	9.476559
529.684113	90.778624	3450.755	
1.00000	14.085022	478.960605	9.476559
529.684113	91.389538	3269.343	

COMB DB-G1-2 ---------- MIN

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -10.863769  -292.022457    -4.536228
-122.576356   -21.357046    -1014.259
 0.25000   -10.863769  -260.222123    -4.536228
-122.576356   -25.595900    -1083.506
 0.50000   -10.863769  -229.300188    -4.536228
-122.576356   -29.993279    -1152.755
 0.75000   -10.863769  -200.214857    -4.536228
-122.576356   -34.429357    -1222.087
 1.00000   -10.863769  -173.553119    -4.536228
-122.576356   -38.914113    -1291.461

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    10.335434   380.440935     8.853540
501.544979    90.741606    4412.354
 0.25000    10.335434   406.734450     8.853540
501.544979    84.418191    4251.204
 0.50000    10.335434   434.778382     8.853540
501.544979    80.392190    4070.682
 0.75000    10.335434   464.009511     8.853540
501.544979    78.554493    3875.728
 1.00000    10.335434   493.613004     8.853540
501.544979    78.337380    3665.413

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -10.396291  -268.725656    -4.163252
-238.773436   -21.762730    -1324.075
 0.25000   -10.396291  -239.474098    -4.163252
-238.773436   -24.651026    -1406.903
 0.50000   -10.396291  -211.088650    -4.163252
-238.773436   -27.926343    -1489.734
 0.75000   -10.396291  -184.384709    -4.163252
-238.773436   -31.751241    -1572.645
 1.00000   -10.396291  -159.900759    -4.163252
-238.773436   -35.976465    -1655.589

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    10.014585   343.189158     9.449925
418.216170    78.270578    4160.160
 0.25000    10.014585   365.110882     9.449925
418.216170    73.948866    3997.773
 0.50000    10.014585   388.491883     9.449925
418.216170    71.606689    3819.635
 0.75000    10.014585   412.862588     9.449925
418.216170    71.099307    3630.048
 1.00000    10.014585   437.545599     9.449925
418.216170    71.946768    3428.281

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -13.988934  -227.676096    -6.073707
-303.905292   -46.162193    -1404.903
 0.25000   -13.988934  -203.286449    -6.073707
-303.905292   -47.222092    -1483.656
 0.50000   -13.988934  -179.620694    -6.073707
-303.905292   -49.359586    -1562.424
 0.75000   -13.988934  -157.356720    -6.073707
-303.905292   -52.861028    -1641.257
 1.00000   -13.988934  -136.943474    -6.073707
-303.905292   -57.710185    -1720.136

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    10.702222   110.572073     1.158407
130.902599    20.105303    1461.298
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD          >
                              404

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000    10.702222   110.584845     1.158407
130.861305    21.780538    1357.140
 0.50000    10.702222   110.598381     1.158407
130.826334    24.884966    1274.593
 0.75000    10.702222   110.612421     1.158407
130.793150    28.994868    1218.130
 1.00000    10.702222   110.628132     1.158407
130.762298    33.229242    1182.736

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    -1.042272   -31.104832    -3.583567
-142.638572    -3.798512   -499.770074
 0.25000    -1.042272   -31.089246    -3.583567
-142.661700    -3.716338   -529.282024
 0.50000    -1.042272   -31.075519    -3.583567
-142.693529    -3.710773   -558.794027
 0.75000    -1.042272   -31.062498    -3.583567
-142.726779    -3.845279   -588.306045
 1.00000    -1.042272   -31.050431    -3.583567
-142.765894    -4.268449   -617.828867

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.788852   163.973571     2.926761
140.772236    19.378018    2323.490
 0.25000    7.788852   163.986343     2.926761
140.730943    19.910462    2166.451
 0.50000    7.788852   163.999879     2.926761
140.695972    21.868957    2030.333
 0.75000    7.788852   164.013919     2.926761
140.662788    24.948836    1923.663
 1.00000    7.788852   164.029630     2.926761
140.631936    28.394107    1845.460

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    -5.523285   -33.979645    -4.397249
-289.146551   -17.575807   -927.145580
 0.25000    -5.523285   -33.964059    -4.397249
-289.169679   -16.330192   -975.557314
 0.50000    -5.523285   -33.950331    -4.397249
-289.201508   -16.015081   -1023.988
 0.75000    -5.523285   -33.937310    -4.397249
-289.234758   -16.853587   -1072.420
 1.00000    -5.523285   -33.925243    -4.397249
-289.273873   -18.949431   -1120.861

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.465861   324.114345     7.319674
401.704331    67.549820    3911.643
 0.25000    9.465861   346.225710     7.319674
375.691254    64.269717    3758.409
 0.50000    9.465861   369.738148     7.319674
347.453962    62.764861    3588.863
 0.75000    9.465861   394.187745     7.319674
316.945255    63.253726    3407.323
 1.00000    9.465861   420.188252     7.319674
310.706814    64.978317    3213.033

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.740137  -216.529813    -5.621149
-260.620489   -25.417552    -1289.206
 0.25000   -9.740137  -190.787378    -5.621149
-260.620489   -26.271965    -1364.661
 0.50000   -9.740137  -166.967311    -5.621149
-270.882078   -27.981305    -1440.146
 0.75000   -9.740137  -144.469259    -5.621149
-298.211560   -30.733723    -1515.699
 1.00000   -9.740137  -123.735050    -5.621149
-324.107870   -34.602661    -1591.259
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD          >
                              405

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.248259   290.920528     7.072659
335.123229    59.445677    3682.015
 0.25000    9.248259   309.337874     7.072659
313.456008    58.069749    3530.618
 0.50000    9.248259   328.922224     7.072659
289.336157    58.240673    3365.838
 0.75000    9.248259   349.287168     7.072659
264.524365    60.111959    3191.352
 1.00000    9.248259   370.943920     7.072659
259.328144    63.035297    3006.768

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.787528  -183.864256    -7.721336
-317.234742   -52.268633    -1367.618
 0.25000   -9.787528  -162.422462    -7.721336
-317.234742   -50.794580    -1438.038
 0.50000   -9.787528  -142.581876    -7.721336
-325.781986   -50.513237    -1508.482
 0.75000   -9.787528  -123.842444    -7.721336
-348.545688   -51.693835    -1579.002
 1.00000   -9.787528  -106.572181    -7.721336
-370.115651   -54.272169    -1649.612

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    2.252973   28.949758     0.642405
 6.396357    8.618348   606.217334
 0.25000    2.252973   28.962536     0.642405
 6.354986   11.003044   573.244714
 0.50000    2.252973   28.976078     0.642405
 6.319955   13.513241   540.641804
 0.75000    2.252973   28.990124     0.642405
 6.286710   16.098602   508.286799
 1.00000    2.252973   29.005845     0.642405
 6.255798   18.750799   476.694038

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -2.417517   -5.402315    -5.045223
-150.165582   -49.868645   -442.077161
 0.25000   -2.417517   -5.386649    -5.045223
-150.188961   -45.659535   -451.930930
 0.50000   -2.417517   -5.372916    -5.045223
-150.220847   -42.167659   -461.811428
 0.75000   -2.417517   -5.359889    -5.045223
-150.254154   -39.421974   -471.852545
 1.00000   -2.417517   -5.347816    -5.045223
-150.293342   -37.382062   -481.936646

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.829884   70.017313     3.828058
11.241829    12.569825    1290.147
 0.25000    3.829884   70.030085     3.828058
11.200536    15.593609    1215.433
 0.50000    3.829884   70.043621     3.828058
11.165565    18.915059    1142.731
 0.75000    3.829884   70.057661     3.828058
11.132381    22.388782    1072.304
 1.00000    3.829884   70.073372     3.828058
11.101528    25.917119    1005.392

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.872622  -10.611963    -7.694809
-280.061668   -77.306246   -812.621900
 0.25000   -9.872622  -10.596377    -7.694809
-280.084796   -72.150415   -837.077393
 0.50000   -9.872622  -10.582649    -7.694809
-280.116625   -69.157473   -861.566950
 0.75000   -9.872622  -10.569628    -7.694809
-280.149875   -68.472693   -886.207068
 1.00000   -9.872622  -10.557561    -7.694809
-280.188990   -69.691766   -910.940035
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD          >
                              406

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    4.859493   137.803797     2.761453
76.080939    15.474915    2249.371
 0.25000    4.859493   137.815292     2.761453
76.043775    18.219275    2109.864
 0.50000    4.859493   137.827475     2.761453
76.012301    21.385663    1980.682
 0.75000    4.859493   137.840111     2.761453
75.982435    24.889662    1861.812
 1.00000    4.859493   137.854521     2.761453
75.954668    28.667043    1763.338

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.555200  -19.907589    -7.411000
-376.830021   -64.509348    -1151.271
 0.25000   -6.555200  -19.893561    -7.411000
-376.850836   -59.249586    -1196.509
 0.50000   -6.555200  -19.881207    -7.411000
-376.879482   -55.444104    -1241.771
 0.75000   -6.555200  -19.868486    -7.411000
-376.909407   -53.264460    -1287.167
 1.00000   -6.555200  -19.858627    -7.411000
-376.944611   -53.049823    -1332.653

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.361369   246.769966     5.205202
306.165402    47.404886    3286.859
 0.25000   11.361369   259.756453     5.205202
270.051169    48.153965    3134.102
 0.50000   11.361369   273.542518     5.205202
240.742420    50.389230    2976.924
 0.75000   11.361369   287.859221     5.205202
217.898162    54.227628    2819.773
 1.00000   11.361369   303.490765     5.205202
193.577182    58.919108    2662.293

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.843763  -136.236854    -9.120724
-350.660911   -59.989420    -1335.301
 0.25000   -7.843763  -120.744459    -9.120724
-365.632406   -56.464864    -1398.359
 0.50000   -7.843763  -106.770812    -9.120724
-385.002624   -54.248651    -1461.458
 0.75000   -7.843763   -93.543739    -9.120724
-404.347808   -53.533875    -1524.697
 1.00000   -7.843763   -81.318814    -9.120724
-438.538901   -54.359983    -1588.016

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.585141   216.503633    10.322670
374.361715    77.644327    2329.549
 0.25000    5.585141   236.556246    10.322670
382.968859    70.703129    2291.085
 0.50000    5.585141   257.949916    10.322670
391.576003    64.127242    2219.099
 0.75000    5.585141   280.217771    10.322670
400.183147    58.303470    2113.315
 1.00000    5.585141   302.877025    10.322670
408.790291    53.391086    1975.068

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -14.465580  -167.559219    -1.109116
-41.373462   -23.066219   -753.326518
 0.25000   -14.465580  -148.667803    -1.109116
-41.373462   -28.635981   -806.221764
 0.50000   -14.465580  -130.364056    -1.109116
-41.373462   -34.227610   -859.046972
 0.75000   -14.465580  -113.138038    -1.109116
-41.373462   -39.820879   -911.980051
 1.00000   -14.465580   -97.414524    -1.109116
-41.373462   -45.605676   -964.830691
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD          >
                              407

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.758505   349.270376    12.307163
505.147448   116.797024    3832.234
 0.25000   14.758505   373.643088    12.307163
508.460200   111.521561    3725.841
 0.50000   14.758505   399.676156    12.307163
511.772952   107.863243    3584.657
 0.75000   14.758505   426.824518    12.307163
515.085704   105.399104    3420.459
 1.00000   14.758505   454.519782    12.307163
518.398456   103.947151    3228.055

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -16.186604  -230.269792    -5.096166
-116.855075   -29.509092    -1329.556
 0.25000   -16.186604  -206.964419    -5.096166
-116.855075   -35.338850    -1418.502
 0.50000   -16.186604  -184.457782    -5.096166
-116.855075   -41.243191    -1507.355
 0.75000   -16.186604  -163.286250    -5.096166
-116.855075   -47.203681    -1596.262
 1.00000   -16.186604  -143.996971    -5.096166
-116.855075   -53.518357    -1685.176

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.356463   391.142851    11.522323
474.807288   103.858167    4569.361
 0.25000   12.356463   413.518246    11.522323
477.203087    98.186993    4422.891
 0.50000   12.356463   437.422744    11.522323
479.598887    93.996616    4245.358
 0.75000   12.356463   462.355996    11.522323
481.994687    91.203458    4045.034
 1.00000   12.356463   487.797555    11.522323
484.390487    89.739415    3818.964

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -15.685431  -216.628597    -5.102508
-236.602296   -32.687864    -1754.859
 0.25000   -15.685431  -195.202596    -5.102508
-236.602296   -36.501269    -1862.631
 0.50000   -15.685431  -174.514679    -5.102508
-236.602296   -40.793870    -1970.320
 0.75000   -15.685431  -155.056771    -5.102508
-236.602296   -45.803301    -2077.995
 1.00000   -15.685431  -137.331090    -5.102508
-236.602296   -51.577013    -2185.741

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.983664   362.069341    11.612112
396.179774    90.682094    4413.066
 0.25000   11.983664   380.720251    11.612112
398.176782    85.798617    4260.595
 0.50000   11.983664   400.645737    11.612112
400.173790    84.175363    4092.403
 0.75000   11.983664   421.428737    11.612112
402.170798    83.039793    3900.610
 1.00000   11.983664   442.635433    11.612112
404.167806    83.238070    3687.541

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -18.101961  -185.502339    -7.255860
-311.544440   -51.244021   -1845.834
 0.25000   -18.101961  -167.642792    -7.255860
-311.544440   -60.803369   -1948.585
 0.50000   -18.101961  -150.398473    -7.255860
-311.544440   -63.759411   -2051.280
 0.75000   -18.101961  -134.179421    -7.255860
-311.544440   -67.896376   -2153.967
 1.00000   -18.101961  -119.404892    -7.255860
-311.544440   -73.318133   -2256.710
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD          >
                              408

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.445642   124.724144     1.115363
107.039841    30.071172    1549.571
 0.25000    9.445642   124.731449     1.115363
107.020508    33.093612    1466.950
 0.50000    9.445642   124.739332     1.115363
107.001982    36.955532    1388.786
 0.75000    9.445642   124.747594     1.115363
106.984678    41.139758    1327.172
 1.00000    9.445642   124.756151     1.115363
106.968998    45.388179    1277.361

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -1.345507   -31.485119    -3.981835
-130.670260    -5.712517   -650.100632
 0.25000   -1.345507   -31.477613    -3.981835
-130.683909    -5.764040   -688.007763
 0.50000   -1.345507   -31.470435    -3.981835
-130.699191    -5.912346   -725.849146
 0.75000   -1.345507   -31.463733    -3.981835
-130.715678    -6.127422   -763.719628
 1.00000   -1.345507   -31.457663    -3.981835
-130.732927    -6.408066   -801.555454

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.925433   195.616857     2.852443
114.705423    26.330818    2609.730
 0.25000    7.925433   195.623393     2.852443
114.686083    27.532507    2477.929
 0.50000    7.925433   195.631276     2.852443
114.667549    29.844064    2352.489
 0.75000    7.925433   195.639538     2.852443
114.650239    32.980820    2243.012
 1.00000    7.925433   195.648097     2.852443
114.634553    36.611954    2145.350

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.783404   -38.511274    -4.907086
-284.988994   -23.421073    -1221.258
 0.25000   -5.783404   -38.503767    -4.907086
-285.002650   -22.032496    -1284.928
 0.50000   -5.783404   -38.496588    -4.907086
-285.017941   -21.412202    -1348.564
 0.75000   -5.783404   -38.489885    -4.907086
-285.034436   -21.869269    -1412.116
 1.00000   -5.783404   -38.483815    -4.907086
-285.051693   -23.254843    -1475.749

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.055799   341.641986     8.397847
398.168036    79.570800    4128.834
 0.25000   12.055799   361.127657     8.397847
364.262305    77.357625    3994.270
 0.50000   12.055799   382.048451     8.397847
329.924239    76.324573    3831.129
 0.75000   12.055799   403.874202     8.397847
297.971087    76.273513    3646.015
 1.00000   12.055799   426.381328     8.397847
286.303175    77.171543    3437.439

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -12.185477  -179.911955    -6.066494
-257.318314   -33.682891    -1695.791
 0.25000   -12.185477  -160.577795    -6.066494
-257.325773   -34.928250    -1794.132
 0.50000   -12.185477  -142.002715    -6.066494
-269.002291   -36.951570    -1892.286
 0.75000   -12.185477  -124.571830    -6.066494
-294.861519   -39.918443    -1990.750
 1.00000   -12.185477  -108.742868    -6.066494
-321.796524   -43.924114    -2089.073
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD          >
                              409

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.855978   315.156404     7.979057
332.640469    71.095520    4002.698
 0.25000   11.855978   331.389374     7.979057
304.394547    70.683440    3869.236
 0.50000   11.855978   348.817906     7.979057
275.768460    71.266158    3712.016
 0.75000   11.855978   367.030332     7.979057
249.169178    72.945419    3536.627
 1.00000   11.855978   385.750392     7.979057
239.448965    75.747464    3341.800

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -12.445498  -154.919587    -8.929253
-326.858864   -62.283413    -1799.425
 0.25000   -12.445498  -138.812836    -8.929253
-326.865078   -60.758354    -1892.039
 0.50000   -12.445498  -123.339454    -8.929253
-336.592460   -60.073111    -1984.504
 0.75000   -12.445498  -108.817269    -8.929253
-358.135064   -60.675790    -2077.219
 1.00000   -12.445498   -95.630601    -8.929253
-380.573867   -62.639592    -2169.847

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.632181   41.678958     0.946328
 7.090603    11.658839   815.812216
 0.25000    3.632181   41.666266     0.946328
 7.071240    14.734498   787.223538
 0.50000    3.632181   41.694152     0.946328
 7.052684    18.033523   758.641314
 0.75000    3.632181   41.702416     0.946328
 7.035353    21.510405   730.155540
 1.00000    3.632181   41.710977     0.946328
 7.019648    25.214138   702.002229

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -2.898355   -7.695089    -7.038329
-170.203402   -25.887669   -588.440345
 0.25000   -2.898355   -7.687580    -7.038329
-170.277080   -50.317439   -602.793303
 0.50000   -2.898355   -7.680398    -7.038329
-170.292394   -45.828270   -617.115001
 0.75000   -2.898355   -7.673693    -7.038329
-170.308914   -41.798228   -631.491025
 1.00000   -2.898355   -7.667621    -7.038329
-170.326199   -38.286549   -645.917621

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.268961   96.771470     4.125438
11.043908    16.853885    1660.853
 0.25000    5.268961   96.778773     4.125438
11.024607    20.513062    1593.491
 0.50000    5.268961   96.786653     4.125438
11.006110    24.569015    1527.094
 0.75000    5.268961   96.794912     4.125438
10.988834    28.958894    1462.383
 1.00000    5.268961   96.803466     4.125438
10.973182    33.887446    1398.483

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -10.235727   -14.602472    -9.846195
-311.172529   -88.138612    -1091.816
 0.25000   -10.235727   -14.594969    -9.846195
-311.186148   -83.012575    -1126.716
 0.50000   -10.235727   -14.587794    -9.846195
-311.201399   -79.523847    -1161.602
 0.75000   -10.235727   -14.581095    -9.846195
-311.217852   -77.118271    -1196.510
 1.00000   -10.235727   -14.575028    -9.846195
-311.235066   -76.068581    -1231.501
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.919048	176.127844	2.971711
61.962890	21.655030	2716.224	
0.25000	6.919048	176.206724	2.971711
61.754354	25.103501	2596.696	
0.50000	6.919048	176.291841	2.971711
61.554503	29.167009	2478.693	
0.75000	6.919048	176.381038	2.971711
61.367849	33.764038	2361.292	
1.00000	6.919048	176.473433	2.971711
61.198710	39.070811	2257.259	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.779101	-26.943911	-9.702029
-396.715379	-74.744763	-1518.656	
0.25000	-7.779101	-26.862875	-9.702029
-396.862547	-68.922794	-1579.690	
0.50000	-7.779101	-26.785377	-9.702029
-397.027343	-64.178194	-1640.589	
0.75000	-7.779101	-26.713016	-9.702029
-397.205127	-60.515984	-1701.444	
1.00000	-7.779101	-26.647486	-9.702029
-397.391133	-58.181535	-1762.447	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.153118	275.791309	5.803529
283.447349	59.699474	3658.339	
0.25000	13.153118	287.486344	5.803529
256.901714	62.152269	3527.586	
0.50000	13.153118	300.072644	5.803529
231.348586	65.730297	3380.636	
0.75000	13.153118	313.239668	5.803529
207.527548	70.062353	3223.785	
1.00000	13.153118	326.857732	5.803529
186.046839	75.409821	3055.748	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.998436	-119.801512	-10.949376
-362.873103	-70.103095	-1758.521	
0.25000	-9.998436	-107.979123	-10.949376
-378.993685	-66.241142	-1841.947	
0.50000	-9.998436	-96.644914	-10.949376
-398.768483	-63.532986	-1947.984	
0.75000	-9.998436	-86.043052	-10.949376
-420.188014	-61.707462	-2033.148	
1.00000	-9.998436	-76.429811	-10.949376
-442.587504	-61.137727	-2150.419	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.085022	380.440935	9.476559
529.684113	101.554589	4412.354	
0.25000	14.085022	406.734450	9.476559
529.684113	95.188419	4251.204	
0.50000	14.085022	434.778382	9.476559
529.684113	91.728478	4070.682	
0.75000	14.085022	464.009511	9.476559
529.684113	90.776624	3875.728	
1.00000	14.085022	493.613004	9.476559
529.684113	91.389538	3665.413	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.988934	-292.022457	-9.120724
-376.830021	-77.306246	-1404.903	
0.25000	-13.988934	-260.222423	-9.120724
-376.850836	-72.150415	-1483.656	
0.50000	-13.988934	-229.300188	-9.120724
-385.002624	-69.157473	-1562.424	
0.75000	-13.988934	-200.214857	-9.120724
-404.347808	-68.472693	-1641.257	
1.00000	-13.988934	-173.553119	-9.120724
-438.538901	-69.691766	-1720.136	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.758505	391.142851	12.307163
505.147448	116.797024	4569.361	
0.25000	14.758505	413.518246	12.307163
508.460200	111.521561	4422.891	
0.50000	14.758505	437.422744	12.307163
511.772952	107.863243	4245.358	
0.75000	14.758505	462.355996	12.307163
515.085704	105.399104	4045.034	
1.00000	14.758505	487.797555	12.307163
518.398456	103.947151	3818.964	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.101961	-230.268792	-10.949376
-396.715379	-88.138612	-1845.834	
0.25000	-18.101961	-206.964419	-10.949376
-396.862547	-83.012575	-1948.585	
0.50000	-18.101961	-184.457782	-10.949376
-398.768483	-79.523847	-2051.280	
0.75000	-18.101961	-163.286250	-10.949376
-420.188014	-77.118271	-2153.967	
1.00000	-18.101961	-143.996871	-10.949376
-442.587504	-76.068581	-2256.710	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.758505	391.142851	12.307163
529.684113	116.797024	4569.361	
0.25000	14.758505	413.518246	12.307163
529.684113	111.521561	4422.891	
0.50000	14.758505	437.422744	12.307163
529.684113	107.863243	4245.358	
0.75000	14.758505	464.009511	12.307163
529.684113	105.399104	4045.034	
1.00000	14.758505	493.613004	12.307163
529.684113	103.947151	3818.964	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.101961	-292.022457	-10.949376
-396.715379	-88.138612	-1845.834	
0.25000	-18.101961	-260.222423	-10.949376
-396.862547	-83.012575	-1948.585	
0.50000	-18.101961	-229.300188	-10.949376
-398.768483	-79.523847	-2051.280	
0.75000	-18.101961	-200.214857	-10.949376
-420.188014	-77.118271	-2153.967	
1.00000	-18.101961	-173.553119	-10.949376
-442.587504	-76.068581	-2256.710	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.758505	391.142851	12.307163
529.684113	116.797024	4569.361	
0.25000	14.758505	413.518246	12.307163
529.684113	111.521561	4422.891	
0.50000	14.758505	437.422744	12.307163
529.684113	107.863243	4245.358	
0.75000	14.758505	464.009511	12.307163
529.684113	105.399104	4045.034	
1.00000	14.758505	493.613004	12.307163
529.684113	103.947151	3818.964	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.101961	-292.022457	-10.949376
-396.715379	-88.138612	-1845.834	
0.25000	-18.101961	-260.222423	-10.949376
-396.862547	-83.012575	-1948.585	
0.50000	-18.101961	-229.300188	-10.949376
-398.768483	-79.523847	-2051.280	
0.75000	-18.101961	-200.214857	-10.949376
-420.188014	-77.118271	-2153.967	
1.00000	-18.101961	-173.553119	-10.949376
-442.587504	-76.068581	-2256.710	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 7 ========== LENGTH = 4.987008

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.736476	268.044137	8.356149
497.492362	51.134886	2043.485	
0.25000	4.736476	290.616059	8.356149
497.492362	43.189827	1949.400	
0.50000	4.736476	314.679843	8.356149
497.492362	36.347055	1826.695	
0.75000	4.736476	339.712123	8.356149
497.492362	30.446085	1673.146	
1.00000	4.736476	364.240989	8.356149
497.492362	25.602394	1489.445	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.236829	-179.488854	-0.645477
-55.994258	-31.788483	-739.393532	
0.25000	-9.236829	-155.432818	-0.645477
-55.994258	-35.614485	-796.522875	
0.50000	-9.236829	-131.522286	-0.645477
-55.994258	-39.454521	-853.652271	
0.75000	-9.236829	-109.157139	-0.645477
-55.994258	-43.304150	-910.876120	
1.00000	-9.236829	-88.745028	-0.645477
-55.994258	-47.155117	-968.338604	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.596572	417.083056	10.622338
616.626517	90.630269	3267.958	
0.25000	14.596572	445.485754	10.622338
616.626517	84.428519	3059.076	
0.50000	14.596572	475.687897	10.622338
616.626517	79.503119	2831.504	
0.75000	14.596572	507.071612	10.622338
616.626517	75.980532	2589.429	
1.00000	14.596572	538.651155	10.622338
616.626517	73.806476	2330.083	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.293870	-237.153379	-2.769958
-150.773974	-37.983223	-1291.342	
0.25000	-10.293870	-206.124592	-2.769958
-150.773974	-42.482247	-1381.450	
0.50000	-10.293870	-176.063845	-2.769958
-150.773974	-47.006533	-1471.557	
0.75000	-10.293870	-147.865335	-2.769958
-150.773974	-51.531125	-1561.764	
1.00000	-10.293870	-122.081963	-2.769958
-150.773974	-56.070180	-1652.243	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.972483	452.524453	9.730817
539.488351	77.038080	3664.644	
0.25000	10.972483	478.598579	9.730817
539.488351	70.691044	3396.916	
0.50000	10.972483	506.321427	9.730817
539.488351	65.637605	3113.194	
0.75000	10.972483	535.125598	9.730817
539.488351	62.029792	2819.349	
1.00000	10.972483	564.172723	9.730817
539.488351	59.898581	2517.038	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.843977	-219.023466	-2.991655
-288.104470	-35.582655	-1655.473	
0.25000	-9.843977	-190.478772	-2.991655
-288.104470	-38.859783	-1754.453	
0.50000	-9.843977	-162.882588	-2.991655
-288.104470	-42.832796	-1853.468	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-9.843977	-136.991291	-2.991655
-288.104470	-47.267859	-1952.573	
1.00000	-9.843977	-113.312273	-2.991655
-288.104470	-51.849816	-2051.960	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.727535	412.655212	9.259580
466.101540	70.561702	3425.213	
0.25000	10.727535	434.394083	9.259580
466.101540	66.248459	3163.548	
0.50000	10.727535	457.507277	9.259580
466.101540	63.012682	2886.807	
0.75000	10.727535	481.521988	9.259580
466.101540	61.147236	2603.230	
1.00000	10.727535	505.741132	9.259580
466.101540	60.653457	2313.852	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.413500	-185.709704	-5.322890
-383.034169	-57.567993	-1720.061	
0.25000	-13.413500	-161.909357	-5.322890
-383.034169	-59.787008	-1805.592	
0.50000	-13.413500	-138.901588	-5.322890
-383.034169	-63.176821	-1891.160	
0.75000	-13.413500	-117.315096	-5.322890
-383.034169	-67.259357	-1976.821	
1.00000	-13.413500	-97.572903	-5.322890
-383.034169	-71.751787	-2062.820	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.618405	134.635925	1.206324
91.471479	33.304553	1182.928	
0.25000	10.618405	134.648571	1.206324
91.428995	35.874206	1042.119	
0.50000	10.618405	134.661929	1.206324
91.392885	38.511141	922.618005	
0.75000	10.618405	134.675740	1.206324
91.358545	41.185196	832.429692	
1.00000	10.618405	134.691178	1.206324
91.326421	43.860129	768.094611	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.915273	-17.298755	-2.339790
-146.233932	-4.003708	-617.812539	
0.25000	-0.915273	-17.283482	-2.339790
-146.255879	-4.245283	-649.759672	
0.50000	-0.915273	-17.270100	-2.339790
-146.283408	-4.492403	-681.707387	
0.75000	-0.915273	-17.257437	-2.339790
-146.317723	-4.742895	-713.655111	
1.00000	-0.915273	-17.245725	-2.339790
-146.357847	-4.996017	-745.603392	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.968371	204.077854	2.295015
79.025359	27.628106	1846.307	
0.25000	7.968371	204.090500	2.295015
78.982875	29.223828	1629.818	
0.50000	7.968371	204.103858	2.295015
78.946765	30.989980	1435.817	
0.75000	7.968371	204.117669	2.295015
78.912425	33.218396	1247.735	
1.00000	7.968371	204.133107	2.295015
78.880301	35.929344	1144.577	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.323455	-21.476478	-3.792902
-327.970940	-19.260096	-1120.841	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-5.323455	-21.461206	-3.792902
-327.992887	-19.569228	-1166.470	
0.50000	-5.323455	-21.447823	-3.792902
-328.020417	-20.885125	-1212.130	
0.75000	-5.323455	-21.435160	-3.792902
-328.054731	-22.681908	-1257.798	
1.00000	-5.323455	-21.423449	-3.792902
-328.094856	-24.667691	-1303.525	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.632556	388.789507	7.357335
402.737967	63.767203	3213.143	
0.25000	9.632556	410.700380	7.357335
375.582244	60.854757	2963.717	
0.50000	9.632556	433.924749	7.357335
345.345606	59.062068	2701.257	
0.75000	9.632556	457.997200	7.357335
320.409351	58.902904	2431.287	
1.00000	9.632556	483.527301	7.357335
320.409351	59.972131	2154.983	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.215259	-178.057506	-4.158002
-324.483577	-34.344852	-1591.182	
0.25000	-9.215259	-152.884852	-4.158002
-324.483577	-36.800220	-1674.826	
0.50000	-9.215259	-129.696277	-4.158002
-324.483577	-40.162023	-1758.496	
0.75000	-9.215259	-107.851324	-4.158002
-324.483577	-43.953551	-1842.221	
1.00000	-9.215259	-87.767691	-4.158002
-342.706332	-47.910555	-1926.156	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.583159	352.792499	6.424419
358.957134	61.790337	3007.434	
0.25000	9.583159	371.042849	6.424419
336.338161	61.125598	2763.343	
0.50000	9.583159	390.387256	6.424419
311.152985	61.389851	2512.948	
0.75000	9.583159	410.438061	6.424419
290.382686	62.973316	2255.229	
1.00000	9.583159	431.702995	6.424419
290.382686	65.559312	1993.170	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.301677	-151.374307	-6.803497
-410.304852	-54.281484	-1349.585	
0.25000	-9.301677	-130.407104	-6.803497
-410.304852	-53.711148	-1719.007	
0.50000	-9.301677	-111.092511	-6.803497
-410.304852	-54.348087	-1788.453	
0.75000	-9.301677	-92.897068	-6.803497
-410.304852	-55.879193	-1858.112	
1.00000	-9.301677	-76.169693	-6.803497
-425.483236	-57.992585	-1927.959	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.559885	40.042548	0.537592
43.663698	18.466809	477.556026	
0.25000	2.559985	40.055199	0.537592
43.621136	21.200468	430.448416	
0.50000	2.559985	40.068564	0.537592
43.584964	23.993034	384.132818	
0.75000	2.559985	40.082380	0.537592
43.550564	26.828081	338.741728	
1.00000	2.559985	40.097828	0.537592
43.518381	29.681234	294.560690	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.759261	-7.210314	-5.593232
-210.825146	-37.683113	-482.011816	
0.25000	-2.759261	-7.195031	-5.593232
-210.847135	-32.801826	-479.100536	
0.50000	-2.759261	-7.181642	-5.593232
-210.874958	-28.461305	-476.479642	
0.75000	-2.759261	-7.168973	-5.593232
-210.909331	-24.645243	-473.860252	
1.00000	-2.759261	-7.157256	-5.593232
-210.949530	-21.397727	-471.450933	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.329862	94.129589	2.434481
56.999200	25.236676	1006.885	
0.25000	4.329862	94.142335	2.434481
56.956716	28.392496	898.555713	
0.50000	4.329862	94.155694	2.434481
56.920606	31.618149	794.211424	
0.75000	4.329862	94.169504	2.434481
56.886266	35.183340	694.165259	
1.00000	4.329862	94.184942	2.434481
56.854142	39.119975	598.615293	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.129917	-11.306395	-8.405172
-379.381459	-70.159702	-911.021273	
0.25000	-10.129917	-11.291123	-8.405172
-379.403406	-66.756501	-916.657046	
0.50000	-10.129917	-11.277740	-8.405172
-379.430935	-64.416564	-922.532700	
0.75000	-10.129917	-11.265077	-8.405172
-379.465250	-62.779085	-928.496138	
1.00000	-10.129917	-11.253366	-8.405172
-379.505374	-61.840824	-934.564217	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.376187	178.355153	1.751004
64.133924	27.605821	1764.998	
0.25000	5.376187	178.366534	1.751004
64.095689	30.726636	1568.088	
0.50000	5.376187	178.378557	1.751004
64.063189	34.019185	1382.778	
0.75000	5.376187	178.390986	1.751004
64.032284	37.738904	1213.296	
1.00000	5.376187	178.404881	1.751004
64.003372	41.883635	1062.198	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.771846	-15.736363	-8.010744
-476.234163	-53.765308	-1332.715	
0.25000	-6.771846	-15.722618	-8.010744
-476.263916	-48.834181	-1403.953	
0.50000	-6.771846	-15.710573	-8.010744
-476.278692	-45.584529	-1389.424	
0.75000	-6.771846	-15.699177	-8.010744
-476.309575	-43.030545	-1417.996	
1.00000	-6.771846	-15.688636	-8.010744
-476.345687	-41.493339	-1446.658	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.742585	302.366794	4.690478
310.431987	57.847538	2663.423	
0.25000	11.742585	315.230285	4.690478
273.160440	59.824534	2429.884	
0.50000	11.742585	328.841290	4.690478
249.570952	62.785102	2194.422	
0.75000	11.742585	342.930543	4.690478
225.942070	66.585282	1962.785	
1.00000	11.742585	358.285018	4.690478
202.136917	71.478428	1736.122	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.819547	-112.788290	-8.373562
-442.544323	-54.546795	-1588.033	
0.25000	-7.819547	-97.622442	-8.373562
-442.544323	-51.690461	-1643.747	
0.50000	-7.819547	-84.009163	-8.373562
-458.416252	-50.091134	-1699.659	
0.75000	-7.819547	-71.155761	-8.373562
-478.195290	-49.384183	-1755.669	
1.00000	-7.819547	-59.301613	-8.373562
-504.325283	-49.366153	-1811.846	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.205485	272.558946	11.816697
523.369238	51.311782	1973.468	
0.25000	6.205485	293.810863	11.816697
531.975661	43.171024	1863.590	
0.50000	6.205485	316.339954	11.816697
540.580251	36.063625	1720.879	
0.75000	6.205485	339.686691	11.816697
549.188507	30.559108	1545.755	
1.00000	6.205485	363.257100	11.816697
557.794930	26.786510	1358.879	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.404347	-137.713551	-0.825319
-73.263447	-44.344340	-964.748461	
0.25000	-14.404347	-120.367232	-0.825319
-73.263447	-50.713243	-1036.887	
0.50000	-14.404347	-103.614830	-0.825319
-73.263447	-57.844889	-1109.096	
0.75000	-14.404347	-87.949983	-0.825319
-73.263447	-65.880205	-1182.098	
1.00000	-14.404347	-73.788086	-0.825319
-73.263447	-74.911459	-1274.982	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.452359	438.380713	14.215551
655.476596	101.334016	3226.336	
0.25000	15.452359	464.130979	14.215551
658.789070	94.241303	3005.724	
0.50000	15.452359	491.466422	14.215551
662.101545	88.451719	2749.744	
0.75000	15.452359	519.845478	14.215551
665.414019	84.465971	2471.926	
1.00000	15.452359	548.567577	14.215551
668.726493	82.221304	2191.519	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.128021	-185.982853	-3.081686
-169.635057	-51.626641	-1685.089	
0.25000	-16.128021	-164.474246	-3.081686
-169.635057	-58.430859	-1798.831	
0.50000	-16.128021	-143.795219	-3.081686
-169.635057	-66.255140	-1912.644	
0.75000	-16.128021	-124.454282	-3.081686
-169.635057	-75.166434	-2027.055	
1.00000	-16.128021	-106.948236	-3.081686
-169.635057	-85.210730	-2165.169	

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.133278 493.873401 13.043912
582.124705 87.058501 3817.976
0.25000 13.133278 517.556548 13.043912
584.520304 80.890120 3536.786
0.50000 13.133278 542.600291 13.043912
586.915903 76.244039 3223.967
0.75000 13.133278 568.655463 13.043912
589.311502 73.393493 2889.961
1.00000 13.133278 595.032759 13.043912
591.707101 72.056203 2553.326
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.577676 -174.241839 -3.851456
-319.402159 -50.297628 -2185.625
0.25000 -15.577676 -154.456842 -3.851456
-319.402159 -55.714128 -2311.591
0.50000 -15.577676 -135.425368 -3.851456
-319.402159 -62.633040 -2437.610
0.75000 -15.577676 -117.654621 -3.851456
-319.402159 -70.929962 -2564.184
1.00000 -15.577676 -101.558652 -3.851456
-319.402159 -80.381430 -2711.935

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.841533 455.318919 11.939319
504.651604 80.743161 3687.313
0.25000 12.841533 475.018222 11.939319
506.648445 77.102035 3412.793
0.50000 12.841533 495.034999 11.939319
508.645285 74.944241 3112.142
0.75000 12.841533 517.653170 11.939319
510.642126 74.638444 2794.068
1.00000 12.841533 539.639845 11.939319
512.638967 76.062892 2474.484

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.033778 -149.997111 -6.704285
-430.923385 -72.436776 -2256.617
0.25000 -18.033778 -133.505416 -6.704285
-430.923385 -75.743392 -2366.702
0.50000 -18.033778 -117.641817 -6.704285
-430.923385 -80.649158 -2476.848
0.75000 -18.033778 -102.829090 -6.704285
-430.923385 -87.082598 -2587.459
1.00000 -18.033778 -89.412368 -6.704285
-430.923385 -94.852769 -2715.732

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.447166 158.472680 1.245472
76.047518 45.084683 1277.561
0.25000 9.447166 158.480280 1.245472
76.027653 47.378027 1150.990
0.50000 9.447166 158.488436 1.245472
76.008574 49.695508 1027.855
0.75000 9.447166 158.496980 1.245472
75.990781 52.054716 919.680787
1.00000 9.447166 158.505733 1.245472
75.974667 54.469074 826.352213

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.317546 -19.827508 -2.485332
-144.170884 -6.027498 -801.542115
0.25000 -1.317546 -19.820407 -2.485332
-144.184562 -6.073759 -841.629754
0.50000 -1.317546 -19.813645 -2.485332
-144.199847 -6.284353 -881.677829
0.75000 -1.317546 -19.807362 -2.485332
-144.216348 -6.592860 -921.740255
1.00000 -1.317546 -19.801722 -2.485332
-144.233604 -6.958108 -962.915445

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.169983 248.655182 2.236007
69.315679 35.947596 2146.262
0.25000 8.169983 248.662783 2.236007
69.295807 38.194364 1940.253
0.50000 8.169983 248.670939 2.236007
69.276721 40.882299 1740.296
0.75000 8.169983 248.679484 2.236007
69.258921 44.103627 1556.068
1.00000 8.169983 248.688238 2.236007
69.242802 47.692988 1386.136
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.722079 -26.177402 -4.405179
-347.590916 -23.527794 -1475.694
0.25000 -5.722079 -26.170300 -4.405179
-347.604602 -23.143688 -1534.656
0.50000 -5.722079 -26.163538 -4.405179
-347.619895 -23.575520 -1593.597
0.75000 -5.722079 -26.157253 -4.405179
-347.636405 -24.659575 -1652.591
1.00000 -5.722079 -26.151613 -4.405179
-347.653670 -25.995768 -1712.551

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.524863 430.454580 8.936510
446.724255 75.175218 3437.331
0.25000 12.524863 450.893742 8.936510
412.099581 72.613175 3182.504
0.50000 12.524863 472.692336 8.936510
376.428802 71.163568 2899.795
0.75000 12.524863 495.441829 8.936510
346.105104 71.040501 2595.208
1.00000 12.524863 518.608769 8.936510
337.735212 72.390974 2282.789

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.085794 -146.721371 -4.887933
-350.486491 -43.173702 -2088.988
0.25000 -12.085794 -128.629284 -4.887933
-350.502629 -46.093121 -2196.090
0.50000 -12.085794 -111.334334 -4.887933
-350.516580 -50.107801 -2303.249
0.75000 -12.085794 -95.185718 -4.887933
-364.484743 -55.227879 -2469.709
1.00000 -12.085794 -80.655409 -4.887933
-390.522721 -61.129588 -2595.299

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.535552 394.761382 7.882211
401.805780 73.718067 3342.314
0.25000 12.535552 411.788679 7.882211
372.960928 73.988578 3096.226
0.50000 12.535552 429.948481 7.882211
343.244594 75.485054 2827.072
0.75000 12.535552 448.900451 7.882211
317.982764 78.357508 2539.693
1.00000 12.535552 468.200185 7.882211
311.010040 82.771284 2246.140

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.492581 -127.888755 -8.584980
-458.045762 -62.021777 -2519.810
0.25000 -12.492581 -112.816740 -8.584980
-458.059207 -61.470718 -2260.303
0.50000 -12.492581 -98.408799 -8.584980
-458.070828 -62.364254 -2350.846
0.75000 -12.492581 -84.955837 -8.584980
-469.707316 -64.721409 -2490.796
1.00000 -12.492581 -72.851489 -8.584980
-491.398832 -68.242270 -2596.700

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.128824 49.233101 0.635536
55.473803 24.628881 702.903409
0.25000 4.128824 49.240703 0.635536
55.453908 28.691933 657.101306
0.50000 4.128824 49.248861 0.635536
55.434801 33.344642 611.522257
0.75000 4.128824 49.257409 0.635536
55.416981 38.655360 566.228918
1.00000 4.128824 49.266165 0.635536
55.400844 44.618264 521.411889
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.327944 -11.051858 -8.046985
-249.869976 -38.156733 -645.996949
0.25000 -3.327944 -11.044753 -8.046985
-249.883685 -37.563450 -645.022720
0.50000 -3.327944 -11.037985 -8.046985
-249.899003 -27.743358 -643.734023
0.75000 -3.327944 -11.031702 -8.046985
-249.915539 -23.813600 -642.454229
1.00000 -3.327944 -11.026060 -8.046985
-249.932832 -20.788113 -641.255441

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.981790 117.681312 2.378693
89.403511 33.119710 1400.074
0.25000 5.981790 117.688910 2.378693
69.390077 38.080218 1293.184
0.50000 5.981790 117.697063 2.378693
69.371026 43.881421 1187.289
0.75000 5.981790 117.705605 2.378693
69.353259 50.745127 1083.123
1.00000 5.981790 117.714354 2.378693
69.337170 58.639456 981.276795

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.613293 -17.014987 -11.249566
-446.216150 -76.238571 -1231.554
0.25000 -10.613293 -17.007889 -11.249566
-446.229797 -70.928112 -1242.957
0.50000 -10.613293 -17.001131 -11.249566
-446.245049 -66.633071 -1257.658
0.75000 -10.613293 -16.994850 -11.249566
-446.261515 -63.435886 -1269.310
1.00000 -10.613293 -16.989213 -11.249566
-446.278734 -61.383677 -1281.058

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.614878 221.296233 1.796465
75.508593 37.961929 2259.044
0.25000 7.614878 221.378299 1.796465
75.294298 43.312701 2067.471
0.50000 7.614878 221.466358 1.796465
75.088474 49.520046 1875.109
0.75000 7.614878 221.558617 1.796465
74.896521 56.780287 1694.393
1.00000 7.614878 221.653123 1.796465
74.722694 64.981627 1516.127

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.109642 -23.037899 -10.900870
-535.206455 -58.346631 -1762.473
0.25000 -8.109642 -22.961232 -10.900870
-535.353927 -52.921717 -1801.712
0.50000 -8.109642 -22.888239 -10.900870
-535.518742 -48.541310 -1840.943
0.75000 -8.109642 -22.820396 -10.900870
-535.696666 -45.222990 -1880.281
1.00000 -8.109642 -22.759505 -10.900870
-535.882737 -42.917037 -1919.680

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.848488 344.627682 5.460696
329.231903 73.710559 3056.782
0.25000 13.848488 356.846208 5.460696
301.487031 76.967655 2825.382
0.50000 13.848488 369.910990 5.460696
274.862726 81.251850 2578.877
0.75000 13.848488 383.567639 5.460696
250.039363 87.133048 2322.197
1.00000 13.848488 397.531672 5.460696
227.629513 94.196875 2062.727
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.273176 -100.704414 -10.760169
-493.390370 -60.663356 -2150.428
0.25000 -10.273176 -89.573295 -10.760169
-501.793521 -57.543802 -2228.940
0.50000 -10.273176 -78.933946 -10.760169
-521.302229 -55.699430 -2307.480
0.75000 -10.273176 -69.053317 -10.760169
-542.474071 -55.008339 -2386.047
1.00000 -10.273176 -60.178163 -10.760169
-564.632400 -55.453749 -2471.395

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.596572 452.524453 10.622338
616.626517 90.630269 3664.644
0.25000 14.596572 478.598679 10.622338
616.626517 84.428519 3396.916
0.50000 14.596572 506.321427 10.622338
616.626517 79.503119 3113.194
0.75000 14.596572 535.125598 10.622338
616.626517 75.980532 2819.349
1.00000 14.596572 564.172723 10.622338
616.626517 73.806476 2517.038

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.413500 -237.153379 -8.405172
-476.234163 -70.159702 -1720.061
0.25000 -13.413500 -206.124592 -8.405172
-476.253916 -66.756501 -1805.592
0.50000 -13.413500 -176.063845 -8.405172
-476.278692 -64.416564 -1891.160
0.75000 -13.413500 -147.865335 -8.405172
-478.195290 -67.259357 -1976.821
1.00000 -13.413500 -122.081963 -8.405172
-504.325283 -71.751787 -2062.820

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.452359 493.873401 14.215551
655.476596 101.334016 3817.976
0.25000 15.452359 517.506548 14.215551
658.789070 94.241303 3536.786
0.50000 15.452359 542.600291 14.215551
662.101545 88.451719 3223.967
0.75000 15.452359 568.655463 14.215551
665.414019 87.133048 2889.961
1.00000 15.452359 595.032759 14.215551
668.726493 94.196875 2553.326

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.033778 -185.982853 -11.249566
-535.206455 -76.238571 -2256.617
0.25000 -18.033778 -164.474246 -11.249566
-535.353927 -75.743392 -2366.702
0.50000 -18.033778 -143.795219 -11.249566
-535.518742 -80.649158 -2476.848
0.75000 -18.033778 -124.454282 -11.249566
-542.474071 -87.082598 -2587.459
1.00000 -18.033778 -106.948236 -11.249566
-564.632400 -94.852769 -2715.732

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.452359 493.873401 14.215551
655.476596 101.334016 3817.976
0.25000 15.452359 517.506548 14.215551
658.789070 94.241303 3536.786
0.50000 15.452359 542.600291 14.215551
662.101545 88.451719 3223.967
0.75000 15.452359 568.655463 14.215551
665.414019 87.133048 2889.961
1.00000 15.452359 595.032759 14.215551
668.726493 94.196875 2553.326
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.033778 -237.153379 -11.249566
-535.206455 -76.238571 -2256.617
0.25000 -18.033778 -206.124592 -11.249566
-535.353927 -75.743392 -2366.702
0.50000 -18.033778 -176.063845 -11.249566
-535.518742 -80.649158 -2476.848
0.75000 -18.033778 -147.865335 -11.249566
-542.474071 -87.082598 -2587.459
1.00000 -18.033778 -122.081963 -11.249566
-564.632400 -94.852769 -2715.732

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.452359 493.873401 14.215551
655.476596 101.334016 3817.976
0.25000 15.452359 517.506548 14.215551
658.789070 94.241303 3536.786
0.50000 15.452359 542.600291 14.215551
662.101545 88.451719 3223.967
0.75000 15.452359 568.655463 14.215551
665.414019 87.133048 2889.961
1.00000 15.452359 595.032759 14.215551
668.726493 94.196875 2553.326

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.033778 -237.153379 -11.249566
-535.206455 -76.238571 -2256.617
0.25000 -18.033778 -206.124592 -11.249566
-535.353927 -75.743392 -2366.702
0.50000 -18.033778 -176.063845 -11.249566
-535.518742 -80.649158 -2476.848
0.75000 -18.033778 -147.865335 -11.249566
-542.474071 -87.082598 -2587.459
1.00000 -18.033778 -122.081963 -11.249566
-564.632400 -94.852769 -2715.732

ELEM 8 ================== LENGTH
= 4.987801

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.282050 321.273921 5.280191
540.237222 24.715803 1487.829
0.25000 5.282050 344.132329 5.280191
540.237222 20.086698 1325.932
0.50000 5.282050 368.393085 5.280191
540.237222 16.439615 1136.659
0.75000 5.282050 393.540821 5.280191
540.237222 13.770786 918.013939
1.00000 5.282050 418.115804 5.280191
540.237222 12.313965 671.283047

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.839699 -126.056187 -3.435464
-147.825213 -46.518762 -967.909089
0.25000 -8.839699 -102.082604 -3.435464
-147.825213 -44.668335 -1056.247
0.50000 -8.839699 -79.735872 -3.435464
-147.825213 -42.002193 -1144.635
0.75000 -8.839699 -59.036858 -3.435464
-147.825213 -41.215796 -1233.486
1.00000 -8.839699 -40.118704 -3.435464
-147.825213 -39.616765 -1322.343

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.159598 493.400319 14.709479
634.158249 73.150190 2328.586
0.25000 15.159598 522.052970 14.709479
634.158249 56.897862 2023.748
0.50000 15.159598 552.382936 14.709479
634.158249 41.442296 1703.511
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 15.159598 583.779083 14.709479
634.158249 26.864894 1374.624
1.00000 15.159598 615.283677 14.709479
634.158249 15.217736 1039.025

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.848534 -168.809449 -1.707878
-269.879360 -54.909282 -1651.709
0.25000 -9.848534 -137.970293 -1.707878
-269.879360 -54.548430 -1778.945
0.50000 -9.848534 -109.656911 -1.707878
-269.879360 -54.518079 -1906.189
0.75000 -9.848534 -83.518987 -1.707878
-269.879360 -55.002982 -2033.961
1.00000 -9.848534 -59.577906 -1.707878
-269.879360 -55.996495 -2161.842

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.677993 530.968673 11.416790
583.226148 58.414677 2516.309
0.25000 11.677993 557.264508 11.416790
583.226148 46.046719 2152.637
0.50000 11.677993 585.095699 11.416790
583.226148 34.392162 1778.860
0.75000 11.677993 613.901509 11.416790
583.226148 23.613753 1406.529
1.00000 11.677993 642.869502 11.416790
583.226148 15.415773 1125.010

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.579177 -158.213968 -1.381934
-411.282011 -51.198527 -2051.534
0.25000 -9.579177 -129.849745 -1.381934
-411.282011 -51.090434 -2175.959
0.50000 -9.579177 -103.841467 -1.381934
-411.282011 -51.144658 -2300.385
0.75000 -9.579177 -79.837470 -1.381934
-411.282011 -51.404637 -2425.451
1.00000 -9.579177 -57.847119 -1.381934
-411.282011 -51.918158 -2550.715

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.462111 481.213792 9.542696
535.300898 59.197300 2313.941
0.25000 11.462111 503.137192 9.542696
535.300898 49.770587 1966.583
0.50000 11.462111 526.340533 9.542696
535.300898 41.202116 1620.944
0.75000 11.462111 550.356321 9.542696
535.300898 33.642782 1313.879
1.00000 11.462111 574.509185 9.542696
535.300898 28.486596 1082.106

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.086404 -143.039439 -6.314034
-503.288198 -71.477970 -2062.612
0.25000 -13.086404 -119.389746 -6.314034
-503.288198 -65.254962 -2157.479
0.50000 -13.086404 -97.705381 -6.314034
-503.288198 -59.299862 -2252.688
0.75000 -13.086404 -77.692258 -6.314034
-503.288198 -53.629057 -2348.656
1.00000 -13.086404 -59.357882 -6.314034
-503.288198 -48.342490 -2445.230

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.560182 154.846281 8.770975
58.055779 44.098850 768.511555
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 10.560182 154.858844 8.770975
58.011445 33.183730 603.554896
0.50000 10.560182 154.872039 8.770975
57.973509 22.302387 463.067448
0.75000 10.560182 154.885613 8.770975
57.937363 11.493237 357.610495
1.00000 10.560182 154.900763 8.770975
57.905210 3.284073 314.548986

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.922888 -11.414889 -0.113779
-170.669426 -4.695184 -745.563419
0.25000 -0.922888 -11.399861 -0.113779
-170.681288 -5.459012 -777.418626
0.50000 -0.922888 -11.386852 -0.113779
-170.711623 -6.741868 -809.477074
0.75000 -0.922888 -11.374999 -0.113779
-170.747344 -8.679477 -841.566378
1.00000 -0.922888 -11.364047 -0.113779
-170.788781 -11.123616 -873.659733

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.174373 231.514058 6.061085
89.836727 34.989786 1145.771
0.25000 8.174373 231.526620 6.061085
89.792393 27.813147 899.081819
0.50000 8.174373 231.539816 6.061085
89.754457 20.936573 682.242875
0.75000 8.174373 231.553390 6.061085
89.718311 14.542685 530.071584
1.00000 8.174373 231.568539 6.061085
89.686158 10.357755 517.649350

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.474448 -18.709945 -3.447087
-370.034585 -24.930164 -1303.588
0.25000 -5.474448 -18.694917 -3.447087
-370.046447 -21.963261 -1337.166
0.50000 -5.474448 -18.681908 -3.447087
-370.076783 -19.256449 -1370.836
0.75000 -5.474448 -18.670055 -3.447087
-370.112504 -16.843778 -1404.788
1.00000 -5.474448 -18.659103 -3.447087
-370.153940 -14.838763 -1439.046

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.983871	450.651398	10.246897
431.214376	58.708379	2155.274	
0.25000	9.983871	472.500325	10.246897
400.546973	46.758363	1831.645	
0.50000	9.983871	495.726643	10.246897
366.671394	35.154908	1503.005	
0.75000	9.983871	519.603471	10.246897
363.062214	24.121871	1197.125	
1.00000	9.983871	544.859679	10.246897
363.062214	14.911553	984.853520	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.958079	-138.632547	-3.159625
-419.339302	-47.491940	-1925.939	
0.25000	-8.958079	-113.743136	-3.159625
-419.339302	-45.428257	-2018.483	
0.50000	-8.958079	-91.558942	-3.159625
-419.339302	-43.652043	-2111.110	
0.75000	-8.958079	-71.212467	-3.159625
-419.339302	-42.128267	-2203.993	
1.00000	-8.958079	-52.498520	-3.159625
-419.339302	-40.975065	-2297.461	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
424

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.039969	406.875063	8.567521
418.477427	64.431865	1994.113	
0.25000	10.039969	425.148780	8.567521
392.933451	55.239192	1688.350	
0.50000	10.039969	444.419845	8.567521
364.717270	46.363881	1388.033	
0.75000	10.039969	464.307710	8.567521
361.711055	37.957311	1135.336	
1.00000	10.039969	485.344508	8.567521
361.711055	31.093695	960.823886	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.035817	-128.191128	-6.054957
-507.738504	-57.903297	-1927.961	
0.25000	-9.035817	-107.459848	-6.054957
-507.738504	-52.292710	-1992.645	
0.50000	-9.035817	-88.981840	-6.054957
-507.738504	-47.049037	-2057.739	
0.75000	-9.035817	-72.034533	-6.054957
-507.738504	-42.236778	-2123.374	
1.00000	-9.035817	-56.446601	-6.054957
-507.738504	-37.955991	-2189.961	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.805612	43.435474	0.836543
98.190043	29.573319	295.618795	
0.25000	2.805612	43.448042	0.836543
98.145632	29.910350	245.673763	
0.50000	2.805612	43.461242	0.836543
98.107638	30.250648	205.139025	
0.75000	2.805612	43.474821	0.836543
98.071435	30.602097	207.781684	
1.00000	2.805612	43.489380	0.836543
98.038708	31.008862	210.902218	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.077832	-21.099657	-4.850904
-239.087646	-21.779834	-471.752413	
0.25000	-3.077832	-21.084620	-4.850904
-239.099906	-16.772898	-450.713308	
0.50000	-3.077832	-21.071604	-4.850904
-239.130567	-12.227608	-430.139757	
0.75000	-3.077832	-21.059745	-4.850904
-239.166345	-8.330732	-410.121481	
1.00000	-3.077832	-21.048788	-4.850904
-239.207854	-5.287480	-390.649556	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.738726	102.831558	0.403255
144.689564	38.595000	600.441650	
0.25000	4.738726	102.844121	0.403255
144.645230	39.495115	484.548668	
0.50000	4.738726	102.857317	0.403255
144.607294	40.747777	387.911435	
0.75000	4.738726	102.870890	0.403255
144.571147	42.336767	386.109247	
1.00000	4.738726	102.886040	0.403255
144.538995	44.759532	392.425984	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.376399	-32.162593	-11.869932
-426.768241	-62.534099	-934.996900	
0.25000	-10.376399	-32.147565	-11.869932
-426.780103	-48.961522	-910.100517	
0.50000	-10.376399	-32.134556	-11.869932
-426.810439	-35.973633	-885.860575	
0.75000	-10.376399	-32.122703	-11.869932
-426.846160	-23.725375	-862.364066	
1.00000	-10.376399	-32.111752	-11.869932
-426.887597	-12.738236	-839.608098	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
425

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.839285	199.679827	1.663675
144.723629	40.778938	1064.319	
0.25000	5.839285	199.691133	1.663675
144.683728	39.891905	846.038567	
0.50000	5.839285	199.703009	1.663675
144.649586	39.318191	655.464179	
0.75000	5.839285	199.715226	1.663675
144.617054	39.061607	550.445280	
1.00000	5.839285	199.728860	1.663675
144.588117	39.622988	562.200411	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.195391	-32.574980	-8.030014
-535.823267	-42.309158	-1447.054	
0.25000	-7.195391	-32.561455	-8.030014
-535.833943	-34.164576	-1444.089	
0.50000	-7.195391	-32.549747	-8.030014
-535.861245	-26.549117	-1441.653	
0.75000	-7.195391	-32.539079	-8.030014
-535.893394	-19.554513	-1439.944	
1.00000	-7.195391	-32.529222	-8.030014
-535.930687	-13.407174	-1439.149	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.101010	345.535882	8.741406
359.153295	70.636592	1737.615	
0.25000	12.101010	358.364087	8.741406
329.849691	61.155186	1454.386	
0.50000	12.101010	371.864768	8.741406
305.557146	51.921407	1184.376	
0.75000	12.101010	385.774704	8.741406
280.037259	43.106533	979.218718	
1.00000	12.101010	400.900538	8.741406
273.293027	36.011532	860.041995	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.004890	-103.702790	-6.749228
-525.894798	-49.505876	-1812.016	
0.25000	-8.004890	-88.745132	-6.749228
-525.894798	-43.669032	-1852.766	
0.50000	-8.004890	-75.614605	-6.749228
-525.894798	-38.414040	-1893.956	
0.75000	-8.004890	-63.612323	-6.749228
-542.797531	-33.890049	-1935.765	
1.00000	-8.004890	-52.546612	-6.749228
-567.591192	-30.322265	-1978.357	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.859858	360.196526	5.148947
621.329904	24.872893	1357.294	
0.25000	6.859858	383.436463	5.148947
629.937696	21.037991	1210.622	
0.50000	6.859858	407.770822	5.148947
638.545487	17.725356	1065.022	
0.75000	6.859858	433.049910	5.148947
647.153278	15.529256	920.414761	
1.00000	6.859858	458.675537	5.148947
655.761070	14.585314	780.813688	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.312865	-100.815907	-3.667287
-190.519691	-73.951246	-1275.029	
0.25000	-14.312865	-85.417849	-3.667287
-190.519691	-72.213246	-1468.446	
0.50000	-14.312865	-70.686180	-3.667287
-190.519691	-70.905284	-1704.396	
0.75000	-14.312865	-57.040522	-3.667287
-190.519691	-70.119853	-1980.917	
1.00000	-14.312865	-44.820450	-3.667287
-190.519691	-69.963034	-2300.568	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
426

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.209226	562.858969	17.863133
740.860260	79.873751	2155.868	
0.25000	16.209226	590.833130	17.863133
744.173262	61.853118	1912.759	
0.50000	16.209226	620.317074	17.863133
747.486263	45.141167	1657.061	
0.75000	16.209226	650.658920	17.863133
750.799264	30.364082	1437.643	
1.00000	16.209226	681.641609	17.863133
754.112265	19.768487	1251.984	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.110717	-139.003559	-2.248939
-321.151311	-83.555147	-2165.158	
0.25000	-16.110717	-119.710893	-2.248939
-321.151311	-85.041059	-2433.678	
0.50000	-16.110717	-101.298704	-2.248939
-321.151311	-87.632542	-2782.199	
0.75000	-16.110717	-84.282195	-2.248939
-321.151311	-91.920143	-3199.818	
1.00000	-16.110717	-69.054604	-2.248939
-321.151311	-99.137896	-3687.776	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.923088	615.484362	13.957491
685.120552	69.679799	2552.659	
0.25000	13.923088	641.142183	13.957491
687.516532	55.871933	2201.110	
0.50000	13.923088	668.189074	13.957491
689.912512	43.108682	1896.325	
0.75000	13.923088	696.027373	13.957491
692.308492	31.819312	1622.756	
1.00000	13.923088	724.459223	13.957491
694.704471	23.795128	1425.832	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.489642	-133.902785	-2.429140
-483.674918	-79.235733	-2711.988	
0.25000	-15.489642	-116.157115	-2.429140
-483.674918	-80.063933	-2963.959	
0.50000	-15.489642	-99.189457	-2.429140
-483.674918	-81.713444	-3300.780	
0.75000	-15.489642	-83.529350	-2.429140
-483.674918	-84.566179	-3737.682	
1.00000	-15.489642	-69.513329	-2.429140
-483.674918	-89.442301	-4259.980	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.685358	557.467588	11.688903
629.774079	73.474978	2474.696	
0.25000	13.685358	578.854548	11.688903
631.771238	63.815056	2137.007	
0.50000	13.685358	601.399363	11.688903
633.768396	55.500039	1831.720	
0.75000	13.685358	624.603851	11.688903
635.765554	49.120995	1581.486	
1.00000	13.685358	648.303091	11.688903
637.762712	46.281415	1395.324	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.965023	-125.226661	-8.781394
-591.860266	-93.971751	-2715.928	
0.25000	-17.965023	-110.434838	-8.781394
-591.860266	-87.907334	-2916.656	
0.50000	-17.965023	-96.292356	-8.781394
-591.860266	-82.989556	-3188.072	
0.75000	-17.965023	-83.238111	-8.781394
-591.860266	-79.742408	-3545.585	
1.00000	-17.965023	-71.555120	-8.781394
-591.860266	-79.124599	-3963.871	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
427

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.468064	189.248080	12.502578
56.320454	54.267078	826.722290	
0.25000	9.468064	189.256058	12.502578
56.300273	40.158862	677.114174	
0.50000	9.468064	189.264547	12.502578
56.281165	26.657615	555.717496	
0.75000	9.468064	189.273351	12.502578
56.263426	14.210923	475.419686	
1.00000	9.468064	189.282418	12.502578
56.247425	5.045357	434.785528	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.372952	-16.151439	-0.134797
-174.124187	-6.252849	-962.890291	
0.25000	-1.372952	-16.144792	-0.134797
-174.138568	-8.100484	-1017.739	
0.50000	-1.372952	-16.138507	-0.134797
-174.154499	-10.326311	-1109.253	
0.75000	-1.372952	-16.132740	-0.134797
-174.171582	-13.885502	-1236.374	
1.00000	-1.372952	-16.127597	-0.134797
-174.189441	-20.394650	-1391.823	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.362899	283.198945	8.515273
93.757528	46.866226	1387.479	
0.25000	8.362899	283.206923	8.515273
93.737340	38.321154	1143.197	
0.50000	8.362899	283.215412	8.515273
93.718225	30.465179	940.204969	
0.75000	8.362899	283.224217	8.515273
93.700480	23.911686	802.429692	
1.00000	8.362899	283.233285	8.515273
93.684473	19.953368	739.654016	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.691804	-26.956287	-4.516826
-408.862492	-26.156707	-1712.624	
0.25000	-5.691804	-26.949640	-4.516826
-408.876882	-23.012167	-1766.692	
0.50000	-5.691804	-26.943353	-4.516826
-408.892822	-20.562733	-1862.527	
0.75000	-5.691804	-26.937585	-4.516826
-408.909912	-19.417001	-2025.992	
1.00000	-5.691804	-26.932442	-4.516826
-408.927781	-20.404260	-2239.970	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.963424	521.516322	14.169326
509.753207	70.347478	2283.052	
0.25000	12.963424	543.330460	14.169326
473.855573	56.964116	1968.877	
0.50000	12.963424	566.429483	14.169326
437.095446	44.685109	1684.864	
0.75000	12.963424	590.293232	14.169326
420.768181	34.071425	1449.235	
1.00000	12.963424	614.749122	14.169326
412.865463	26.370059	1275.404	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.988929	-121.772717	-4.174668
-477.384361	-60.354871	-2595.328	
0.25000	-11.988929	-105.168613	-4.174668
-477.385372	-59.779997	-2849.347	
0.50000	-11.988929	-89.427035	-4.174668
-477.469197	-60.273733	-3092.201	
0.75000	-11.988929	-74.864324	-4.174668
-479.273023	-62.476933	-3420.916	
1.00000	-11.988929	-61.928408	-4.174668
-501.858516	-67.301627	-3834.785	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
428

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.160925	472.419769	11.756879
498.742511	80.587702	2247.138	
0.25000	13.160925	490.592520	11.756879
468.837191	71.225892	1947.338	
0.50000	13.160925	509.835673	11.756879
438.213352	62.287835	1677.987	
0.75000	13.160925	529.715899	11.756879
424.611561	56.511168	1450.061	
1.00000	13.160925	550.089421	11.756879
418.028027	52.882487	1280.349	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.529651	-117.964430	-7.830090
-590.019671	-67.451321	-2596.934	
0.25000	-12.529651	-104.132013	-7.830090
-590.020513	-63.117046	-2795.087	
0.50000	-12.529651	-91.018143	-7.830090
-590.090346	-59.918166	-2984.061	
0.75000	-12.529651	-78.886353	-7.830090
-591.593063	-58.578763	-3244.511	
1.00000	-12.529651	-68.109601	-7.830090
-610.408409	-59.930453	-3579.118	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.572375	52.444859	0.720041
124.446763	43.964355	522.573357	
0.25000	4.572375	52.452639	0.720041
124.426552	45.072951	470.386481	
0.50000	4.572375	52.461329	0.720041
124.407417	46.424299	420.176405	
0.75000	4.572375	52.470136	0.720041
124.389654	48.312274	382.073958	
1.00000	4.572375	52.479206	0.720041
124.373630	50.786186	344.748151	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.723927	-27.576951	-5.074324
-290.512989	-20.535376	-641.617884	
0.25000	-3.723927	-27.570300	-5.074324
-290.527403	-15.967169	-618.115823	
0.50000	-3.723927	-27.564011	-5.074324
-290.543368	-11.892747	-594.763446	
0.75000	-3.723927	-27.558240	-5.074324
-290.560485	-8.604725	-572.155800	
1.00000	-3.723927	-27.553095	-5.074324
-290.578381	-6.263618	-550.245772	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.588670	122.670662	0.519378
179.100966	57.579994	983.333953	
0.25000	6.588670	122.678638	0.519378
179.080814	60.440634	861.985158	
0.50000	6.588670	122.687125	0.519378
179.061733	64.285892	746.120298	
0.75000	6.588670	122.695927	0.519378
179.044016	69.419934	666.258290	
1.00000	6.588670	122.704992	0.519378
179.028041	76.558930	604.033027	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.909988	-41.253512	-14.290719
-514.588347	-61.453350	-1281.545	
0.25000	-10.909988	-41.246869	-14.290719
-514.602696	-47.093628	-1254.203	
0.50000	-10.909988	-41.240587	-14.290719
-514.618594	-33.747034	-1229.099	
0.75000	-10.909988	-41.234822	-14.290719
-514.635641	-22.253702	-1215.057	
1.00000	-10.909988	-41.229683	-14.290719
-514.653463	-13.191721	-1217.428	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
429

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.199685	244.083319	3.124111
173.794092	63.776928	1518.542	
0.25000	8.199685	244.169462	3.124111
173.576372	62.936180	1292.746	
0.50000	8.199685	244.261126	3.124111
173.370226	63.172694	1095.800	
0.75000	8.199685	244.356101	3.124111
173.178818	64.626363	951.262859	
1.00000	8.199685	244.454101	3.124111
173.006220	67.786714	861.271860	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.407897	-44.148706	-9.946336
-621.317695	-42.809112	-1920.128	
0.25000	-8.407897	-44.076950	-9.946336
-621.472755	-33.529537	-1922.435	
0.50000	-8.407897	-44.009095	-9.946336
-621.644540	-25.777766	-1918.846	
0.75000	-8.407897	-43.946833	-9.946336
-621.828741	-19.533091	-2028.643	
1.00000	-8.407897	-43.891315	-9.946336
-622.021326	-15.158665	-2145.851	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.472832	404.570612	12.479637
418.451663	92.500568	2064.298	
0.25000	14.472832	417.489411	12.479637
390.274026	82.046692	1786.143	
0.50000	14.472832	431.198978	12.479637
363.341293	72.983796	1535.389	
0.75000	14.472832	445.398480	12.479637
338.345678	65.790938	1336.247	
1.00000	14.472832	459.993242	12.479637
316.020568	61.955435	1189.025	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.539124	-102.309356	-8.371249
-608.036915	-54.678717	-2471.702	
0.25000	-10.539124	-91.975057	-8.371249
-608.966290	-49.560620	-2573.945	
0.50000	-10.539124	-82.207273	-8.371249
-629.398254	-46.069772	-2710.106	
0.75000	-10.539124	-73.194226	-8.371249
-651.480262	-44.729365	-2926.996	
1.00000	-10.539124	-65.175751	-8.371249
-674.607192	-46.632199	-3183.504	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.159598	530.968673	14.709479
634.158249	73.150190	2516.309	
0.25000	15.159598	557.264508	14.709479
634.158249	61.155186	2152.637	
0.50000	15.159598	585.095699	14.709479
634.158249	51.921407	1778.860	
0.75000	15.159598	613.901509	14.709479
634.158249	43.106533	1496.329	
1.00000	15.159598	642.869502	14.709479
634.158249	44.759532	1125.010	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.086404	-168.809449	-11.869932
-535.823267	-71.477970	-2062.612	
0.25000	-13.086404	-137.970293	-11.869932
-535.833943	-65.254962	-2175.959	
0.50000	-13.086404	-109.656911	-11.869932
-535.861245	-59.299862	-2300.385	
0.75000	-13.086404	-83.518987	-11.869932
-542.797531	-55.002982	-2425.451	
1.00000	-13.086404	-59.577906	-11.869932
-567.591192	-55.996495	-2550.715	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
430

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.209226	615.484362	17.863133
740.860260	92.500568	2552.659	
0.25000	16.209226	641.142183	17.863133
744.173262	82.046692	2201.110	
0.50000	16.209226	668.189074	17.863133
747.486263	72.983796	1886.325	
0.75000	16.209226	696.027373	17.863133
750.799264	69.419934	1622.756	
1.00000	16.209226	724.459223	17.863133
754.112265	76.558930	1425.832	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.965023	-139.003559	-14.290719
-621.317695	-93.971751	-2715.928	
0.25000	-17.965023	-119.710893	-14.290719
-621.472755	-87.907334	-2963.959	
0.50000	-17.965023	-101.298704	-14.290719
-629.398254	-87.632542	-3300.780	
0.75000	-17.965023	-84.282105	-14.290719
-651.480262	-91.920143	-3737.682	
1.00000	-17.965023	-71.555120	-14.290719
-674.607192	-99.137896	-4259.980	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.209226	615.484362	17.863133
740.860260	92.500568	2552.659	
0.25000	16.209226	641.142183	17.863133
744.173262	82.046692	2201.110	
0.50000	16.209226	668.189074	17.863133
747.486263	72.983796	1886.325	
0.75000	16.209226	696.027373	17.863133

```
 750.799264    69.419934    1622.756
   1.00000    16.209226   724.459223    17.863133
754.112265    76.558930    1425.832

  COMB     CAR  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -17.965023  -168.809449   -14.290719
-621.317695   -93.971751    -2715.928
  0.25000   -17.965023  -137.970293   -14.290719
-621.472755   -87.907334    -2963.959
  0.50000   -17.965023  -109.656911   -14.290719
-629.398254   -87.632542    -3300.780
  0.75000   -17.965023   -84.282105   -14.290719
-651.480262   -91.920143    -3737.682
  1.00000   -17.965023   -71.555120   -14.290719
-674.607192   -99.137896    -4259.980

  COMB  DESIGN  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    16.209226   615.484362    17.863133
740.860260    92.500568    2552.659
  0.25000    16.209226   641.142183    17.863133
744.173262    82.046692    2201.110
  0.50000    16.209226   668.189074    17.863133
747.486263    72.983796    1886.325
  0.75000    16.209226   696.027373    17.863133
750.799264    69.419934    1622.756
  1.00000    16.209226   724.459223    17.863133
754.112265    76.558930    1425.832

  COMB  DESIGN  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -17.965023  -168.809449   -14.290719
-621.317695   -93.971751    -2715.928
  0.25000   -17.965023  -137.970293   -14.290719
-621.472755   -87.907334    -2963.959
  0.50000   -17.965023  -109.656911   -14.290719
-629.398254   -87.632542    -3300.780
  0.75000   -17.965023   -84.282105   -14.290719
-651.480262   -91.920143    -3737.682
  1.00000   -17.965023   -71.555120   -14.290719
-674.607192   -99.137896    -4259.980
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 431

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        9 ================ LENGTH
=     4.987631

  COMB DB-G1-1  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    5.855728   406.946409    2.511173
503.957413   11.597462   669.810492
  0.25000    5.855728   431.350105    2.511173
503.957413   22.686252   417.230670
  0.50000    5.855728   456.930163    2.511173
503.957413   37.140801   325.954214
  0.75000    5.855728   483.084347    2.511173
503.957413   53.000265   341.766399
  1.00000    5.855728   508.159922    2.511173
503.957413   71.633029   357.582592

  COMB DB-G1-1  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -8.501131   -43.466968   -15.958537
-293.162195   -38.697423    -1321.353
  0.25000   -8.501131   -29.564630   -15.958537
-293.162195   -22.357492    -1462.937
  0.50000   -8.501131   -17.746891   -15.958537
-293.162195   -13.192007    -1604.956
  0.75000   -8.501131   -12.805007   -15.958537
-293.162195    -6.532115    -1747.642
  1.00000   -8.501131   -12.801190   -15.958537
-293.162195    -9.626778    -1890.527

  COMB DB-G1-2  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   15.770424   599.308005    36.813278
577.233422   14.241899    1037.678
  0.25000   15.770424   629.701505    36.813278
577.233422   14.237784   678.118666
  0.50000   15.770424   661.475905    36.813278
577.233422   15.091134   565.797437
  0.75000   15.770424   693.913476    36.813278
577.233422   18.582456   591.304528
  1.00000   15.770424   725.890663    36.813278
577.233422   28.261980   616.812604

  COMB DB-G1-2  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -9.568157   -72.487329   -13.628721
-459.092029   -54.350630    -2160.662
  0.25000   -9.568157   -49.768363   -13.628721
-459.092029   -72.222495    -2345.850
  0.50000   -9.568157   -34.351104   -13.628721
-459.092029  -103.960043    -2532.107
  0.75000   -9.568157   -21.912357   -13.628721
-459.092029  -138.349581    -2718.563
  1.00000   -9.568157   -21.904552   -13.628721
-459.092029  -180.116348    -2905.841

  COMB DB-G1-3  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   12.424818   620.839184    26.475046
603.484078   14.887622    1123.761
  0.25000   12.424818   648.718020    26.475046
603.484078   13.945161   820.011045
  0.50000   12.424818   677.859332    26.475046
603.484078   13.501982   721.847614
  0.75000   12.424818   707.605102    26.475046
603.484078   15.050438   750.451446
  1.00000   12.424818   736.994771    26.475046
603.484078   24.402251   779.055285

  COMB DB-G1-3  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -9.381836   -92.465143   -12.218460
-565.272254   -51.051268    -2549.850
  0.25000   -9.381836   -71.219008   -12.218460
-565.272254   -58.797241    -2709.238
  0.50000   -9.381836   -57.023868   -12.218460
-565.272254   -77.117297    -2870.799
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 432

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
        T            M2           M3
  0.75000   -9.381836   -45.141726   -12.218460
-565.272254   -98.654634    -3033.011
  1.00000   -9.381836   -45.134737   -12.218460
-565.272254  -127.141891    -3196.265

  COMB DB-G1-4  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   12.203806   550.187871    24.089064
604.443743   28.054582    1081.067
  0.25000   12.203806   573.430618    24.089064
604.443743   37.835018   829.493840
  0.50000   12.203806   597.725775    24.089064
604.443743   57.018675   749.075138
  0.75000   12.203806   622.524758    24.089064
604.443743   80.819286   774.353230
  1.00000   12.203806   647.028823    24.089064
604.443743  111.595083   799.635627

  COMB DB-G1-4  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000  -12.827625  -105.521529   -28.933448
-618.658936   -47.952658    -2444.838
  0.25000  -12.827625   -87.796416   -28.933448
-618.658936   -50.037704    -2552.305
  0.50000  -12.827625   -75.960256   -28.933448
-618.658936   -65.516992    -2662.936
  0.75000  -12.827625   -66.040006   -28.933448
-618.658936   -83.660642    -2775.160
  1.00000  -12.827625   -66.034184   -28.933448
-618.658936  -108.812664    -2889.427

  COMB DB-G2-1  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   10.518065   163.550978    38.375629
66.712734    2.992381   314.643192
  0.25000   10.518065   163.563941    38.375629
66.634985    5.612984   257.576736
  0.50000   10.518065   163.577386    38.375629
66.634974    2.554996   267.421639
  0.75000   10.518065   163.591026    38.375629
66.609974    2.471381   277.015409
  1.00000   10.518065   163.606083    38.375629
66.609967    2.441228   286.618417

  COMB DB-G2-1  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -1.063578   -13.348898   -0.166860
-200.262303   -10.382945   -873.636204
  0.25000   -1.063578   -13.334762   -0.166860
-200.279725   -47.620278   -900.208152
  0.50000   -1.063578   -13.322393   -0.166860
-200.317542   -95.387914   -926.855459
  0.75000   -1.063578   -13.313633   -0.166860
-200.356177   -143.171351   -953.669051
  1.00000   -1.063578   -13.309124   -0.166860
-200.402291   -190.960665   -980.997053

  COMB DB-G2-2  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    8.384090   231.039900    29.009362
177.076869   10.454087   517.727714
  0.25000    8.384090   231.052564    29.009362
177.032120   21.547007   470.081615
  0.50000    8.384090   231.066008    29.009362
176.999109   39.378399   484.157196
  0.75000    8.384090   231.079648    29.009362
176.974109   57.588936   498.281582
  1.00000    8.384090   231.094706    29.009362
176.974103   75.876790   512.421091

  COMB DB-G2-2  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -5.646423   -48.884029   -14.969310
-374.176074   -15.192037    -1439.330
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 433

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
        T            M2           M3
  0.25000   -5.646423   -48.869894   -14.969310
-374.193496   -38.084572    -1445.088
  0.50000   -5.646423   -48.857525   -14.969310
-374.231313   -71.398058    -1452.836
  0.75000   -5.646423   -48.848765   -14.969310
-374.269949   -105.408370    -1461.783
  1.00000   -5.646423   -48.841701   -14.969310
-374.316063   -140.609789    -1471.638

  COMB DB-G2-3  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   10.585258   505.590360    40.614572
459.849193   14.571830   984.334726
  0.25000   10.585258   528.554903    40.614572
428.450467   21.031014   778.030774
  0.50000   10.585258   552.472021    40.614572
428.450467   36.395658   691.447468
  0.75000   10.585258   576.815308    40.614572
428.450467   52.617398   716.114063
  1.00000   10.585258   602.179757    40.614572
428.450467   72.341928   740.819986

  COMB DB-G2-3  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -8.746353  -111.323294   -17.993110
-505.261771   -40.547819    -2297.100
  0.25000   -8.746353   -88.099107   -17.993110
-505.261771   -56.671083    -2395.470
  0.50000   -8.746353   -72.660882   -17.993110
-505.261771  -101.301240    -2496.033
  0.75000   -8.746353   -60.540162   -17.993110
-505.261771  -148.666095    -2598.149
  1.00000   -8.746353   -53.555438   -17.993110
-526.672433  -198.337532    -2701.123

  COMB DB-G2-4  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   10.672495   448.523461    36.783888
488.379503   30.980966   960.397471
  0.25000   10.672495   467.301450    36.783888
462.226381   34.709735   788.890219
  0.50000   10.672495   487.572873    36.783888
462.226381   47.704567   717.328761
  0.75000   10.672495   507.849267    36.783888
462.226381   64.266708   738.487958
  1.00000   10.672495   528.976223    36.783888
462.226381   86.724007   759.650650

  COMB DB-G2-4  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -8.811481  -119.520095   -21.073352
-571.859824   -37.826042    -2190.021
  0.25000   -8.811481  -100.175840   -21.073352
-571.859824   -47.818171    -2244.601
  0.50000   -8.811481   -87.483377   -21.073352
-571.859824   -85.051530    -2302.255
  0.75000   -8.811481   -77.221009   -21.073352
-571.859824  -125.218035    -2362.436
  1.00000   -8.811481   -71.403182   -21.073352
-589.693529  -169.442370    -2424.410

  COMB DB-G3-1  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    3.007144   39.034116    6.236596
163.037175   31.143586   210.914067
  0.25000    3.007144   39.047083    6.236596
162.992335   25.805288   210.964074
  0.50000    3.007144   39.060532    6.236596
162.958911   21.177762   211.150780
  0.75000    3.007144   39.074176    6.236596
162.933680   16.786278   211.386187
  1.00000    3.007144   39.089242    6.236596
162.933674   19.577873   211.691277
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 434

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -3.374195   -40.136627   -3.724355
-232.986927    -5.556294   -391.226503
  0.25000   -3.374195   -40.122481   -3.724355
-233.005081    -5.145361   -349.027685
  0.50000   -3.374195   -40.110106   -3.724355
-233.042977    -6.980068   -308.578338
  0.75000   -3.374195   -40.101317   -3.724355
-233.081667    -9.821026   -270.066612
  1.00000   -3.374195   -40.094226   -3.724355
-233.127912   -13.423251   -233.866225

  COMB DB-G3-2  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    5.074860   90.790059    8.451946
274.291594   45.067382   392.438091
  0.25000    5.074860   90.803032    8.451946
274.246844   61.947631   393.030811
  0.50000    5.074860   90.816477    8.451946
274.213834   90.792313   396.239314
  0.75000    5.074860   90.830117    8.451946
274.188834  121.290120   399.501100
  1.00000    5.074860   90.845174    8.451946
274.188827  159.872779   402.822299

  COMB DB-G3-2  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000  -10.614134   -74.072939   -33.273405
-402.196257   -13.455343   -840.707139
  0.25000  -10.614134   -74.058804   -33.273405
-402.213680    -3.724863   -774.764435
  0.50000  -10.614134   -74.046434   -33.273405
-402.251496    -4.666823   -711.974078
  0.75000  -10.614134   -74.037674   -33.273405
-402.290132    -8.909841   -652.093661
  1.00000  -10.614134   -74.030611   -33.273405
-402.336246   -16.354287   -595.866684

  COMB DB-G3-3  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    6.249729   188.914000    15.291894
308.653408   39.842282   562.200461
  0.25000    6.249729   188.925667    15.291894
308.613133   44.640713   568.084629
  0.50000    6.249729   188.937768    15.291894
308.583424   55.846272   578.083178
  0.75000    6.249729   188.950043    15.291894
308.560924   68.237357   588.125647
  1.00000    6.249729   188.963595    15.291894
308.560918   87.714248   598.218101

  COMB DB-G3-3  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -7.590699   -82.159499   -17.813898
-516.049283    -1.281479    -1440.044
  0.25000   -7.590699   -82.146777   -17.813898
-516.064964   -14.243982    -1388.721
  0.50000   -7.590699   -82.135645   -17.813898
-516.098999   -23.556568    -1340.962
  0.75000   -7.590699   -82.127761   -17.813898
-516.133771   -36.021525    -1296.040
  1.00000   -7.590699   -82.121404   -17.813898
-516.175273   -52.405307    -1254.440

  COMB DB-G3-4  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   12.426880   368.407734    42.714266
444.296670   35.981190   859.945599
  0.25000   12.426880   381.738445    42.714266
417.926136   38.590257   739.587111
  0.50000   12.426880   395.592767    42.714266
390.002292   47.266801   692.907712
  0.75000   12.426880   409.670745    42.714266
388.917542   57.727427   707.180785
  1.00000   12.426880   424.779095    42.714266
388.917542   73.335585   725.537290
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 435

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G3-4  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -8.505647  -115.998452   -16.302911
-561.164783   -30.390822    -1978.761
  0.25000   -8.505647  -101.982870   -16.302911
-561.164783   -52.165907    -1994.434
  0.50000   -8.505647   -90.577827   -16.302911
-570.117599   -96.056531    -2013.077
  0.75000   -8.505647   -83.083032   -16.302911
-597.312892  -143.556539    -2034.218
  1.00000   -8.505647   -76.194254   -16.302911
-622.327386  -194.542847    -2058.310

  COMB DL-G1-1  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    7.540316   502.109892    3.186553
617.402361   12.793583   780.148592
  0.25000    7.540316   528.080190    3.186553
626.009859   20.114104   656.133672
  0.50000    7.540316   556.965849    3.186553
634.617356   35.166133   541.739009
  0.75000    7.540316   585.594002    3.186553
643.212748   64.528462   451.469315
  1.00000    7.540316   614.291714    3.186553
650.857096  100.907094   460.902398

  COMB DL-G1-1  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000  -14.350703   -52.175040   -30.030685
-375.351632   -68.957378    -2301.669
  0.25000  -14.350703   -39.763715   -30.030685
-375.351632   -39.474060    -2748.686
  0.50000  -14.350703   -28.186837   -30.030685
-375.351632   -17.316427    -3244.521
  0.75000  -14.350703   -17.890857   -30.030685
-375.339526    -9.520025    -3792.285
  1.00000  -14.350703   -17.315089   -30.030685
-374.376377   -12.417146    -4397.557

  COMB DL-G1-2  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   17.065781   739.931230    47.736837
718.187111   17.417277    1251.423
  0.25000   17.065781   771.941208    47.736837
721.499999   16.265107    1047.440
  0.50000   17.065781   805.304942    47.736837
724.812887   17.499880   891.732862
  0.75000   17.065781   839.456344    47.736837
728.125775   30.840796   781.032710
  1.00000   17.065781   873.824832    47.736837
731.340448   53.690907   798.295666

  COMB DL-G1-2  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000  -16.323212   -81.277112   -24.460628
-551.429584   -97.266397    -3688.804
  0.25000  -16.323212   -65.297997   -24.460628
-551.429584  -120.643329    -4328.967
  0.50000  -16.323212   -50.415876   -24.460628
-551.429584  -151.699672    -5039.862
  0.75000  -16.323212   -37.149905   -24.460628
-551.429584  -193.470159    -5828.793
  1.00000  -16.323212   -32.660197   -24.460628
-551.331486  -247.555730    -6691.838

  COMB DL-G1-3  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   14.738072   762.555421    38.252250
741.047246   21.694708    1425.529
  0.25000   14.738072   791.886441    38.252250
743.443144   18.856711    1235.469
  0.50000   14.738072   822.460297    38.252250
745.839042   21.588840    1094.323
  0.75000   14.738072   853.765364    38.252250
748.234940   34.264056   996.251208
  1.00000   14.738072   885.263043    38.252250
750.578818   56.521586    1018.336
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 436

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G1-3  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000  -15.592518  -100.779427   -23.680633
-673.681834   -88.052735    -4260.592
  0.25000  -15.592518   -86.049521   -23.680633
-673.681834  -100.419210    -4901.271
  0.50000  -15.592518   -72.312522   -23.680633
-673.681834  -121.348499    -5620.071
  0.75000  -15.592518   -60.062681   -23.680633
-673.681834  -152.043615    -6416.564
  1.00000  -15.592518   -55.596021   -23.680633
-673.626912  -194.003718    -7284.186

  COMB DL-G1-4  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   14.508669   671.682202    34.178399
740.386272   44.332999    1395.443
  0.25000   14.508669   696.130941    34.178399
742.383362   58.791647    1226.951
  0.50000   14.508669   721.615641    34.178399
744.380452   82.911396    1105.266
  0.75000   14.508669   747.709838    34.178399
746.377542  116.457278    1023.846
  1.00000   14.508669   773.964586    34.178399
748.328770  158.831811    1045.821

  COMB DL-G1-4  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000  -18.053420  -118.460397   -39.695522
-734.353781    -78.111277    -3984.465
  0.25000  -18.053420  -106.182351   -39.695522
-734.353781    -85.118599    -4504.934
  0.50000  -18.053420   -94.731937   -39.695522
-734.353781  -102.860263    -5101.052
  0.75000  -18.053420   -84.521138   -39.695522
-734.353781  -128.853094    -5768.132
  1.00000  -18.053420   -80.797973   -39.695522
-734.308001  -165.278065    -6498.736

  COMB DL-G2-1  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    9.570861   205.201375    50.722525
71.103128    4.775599   434.975148
  0.25000    9.570861   205.209645    50.722525
71.083223    3.967350   374.382554
  0.50000    9.570861   205.218669    50.722525
71.064598    3.669458   351.896655
  0.75000    9.570861   205.228007    50.722525
71.047577    3.427036   358.137386
  1.00000    9.570861   205.237463    50.722525
71.032940    3.272773   369.820278

  COMB DL-G2-1  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -1.538974   -18.226028   -0.131365
-201.814298   -19.753934    -1391.556
  0.25000   -1.538974   -18.219869   -0.131365
-201.830757   -77.927489    -1556.660
  0.50000   -1.538974   -18.214158   -0.131365
-201.848676   -140.848386    -1743.822
  0.75000   -1.538974   -18.209028   -0.131365
-201.867684  -203.795506    -1954.587
  1.00000   -1.538974   -18.204597   -0.131365
-201.887449  -266.833807    -2173.277

  COMB DL-G2-2  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000    8.516212   282.222090    38.862630
202.212752   19.620702   740.140319
  0.25000    8.516212   282.230710    38.862630
202.192840   32.421578   669.820368
  0.50000    8.516212   282.239734    38.862630
202.174207   51.315619   646.316801
  0.75000    8.516212   282.249073    38.862630
202.157181   70.259323   655.406137
  1.00000    8.516212   282.258529    38.862630
202.142510   89.400187   674.960536
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 437

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G2-2  ---------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   -5.710654   -56.638656   -15.805177
-408.372964   -20.296566    -2239.413
  0.25000   -5.710654   -56.632495   -15.805177
-408.389431   -59.543483    -2436.840
  0.50000   -5.710654   -56.626784   -15.805177
-408.407358  -106.088168    -2668.511
  0.75000   -5.710654   -56.621653   -15.805177
-408.426375  -153.042995    -2929.202
  1.00000   -5.710654   -56.617220   -15.805177
-408.446148  -200.700765    -3203.450

  COMB DL-G2-3  ---------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
  0.00000   13.389731   610.722857    49.065871
565.624803   24.862598    1275.506
  0.25000   13.389731   634.866041    49.065871
527.350323   31.972038    1140.541
  0.50000   13.389731   660.260410    49.065871
514.636954   47.767971    1040.199
  0.75000   13.389731   686.340901    49.065871
```

```
508.202021    64.598290   966.658580
 1.00000    13.389731   712.675556    49.065871
504.451035   84.513043   969.558625

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.996755 -115.792103  -20.130286
-578.288654  -66.291040   -3834.412
 0.25000   -11.996755 -101.145502  -20.130286
-578.876485 -102.490906   -4293.054
 0.50000   -11.996755  -87.548545  -20.130286
-581.827768 -155.687946   -4811.895
 0.75000   -11.996755  -75.338411  -20.130286
-590.385356 -210.037498   -5404.059
 1.00000   -11.996755  -64.906704  -20.130286
-624.639299 -266.671244   -6073.039

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.737570  541.343978   44.492545
603.330371   51.366484   1280.931
 0.25000    13.737570  561.456993   44.492545
571.444967   58.086938   1153.015
 0.50000    13.737570  582.612336   44.492545
560.853812   74.174710   1060.453
 0.75000    13.737570  604.339267   44.492545
555.493049   92.751529  995.015270
 1.00000    13.737570  626.277935   44.492545
552.368206  115.865014  996.670899

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.655560 -129.879310  -24.103373
-668.451723  -58.999796   -3579.096
 0.25000   -12.655560 -117.677634  -24.103373
-668.941428  -85.823393   -3936.967
 0.50000   -12.655560 -106.350388  -24.103373
-671.400060 -129.926685   -4354.257
 0.75000   -12.655560  -96.178465  -24.103373
-678.529149 -175.910536   -4842.800
 1.00000   -12.655560  -87.488100  -24.103373
-707.065156 -225.384793   -5399.819

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.951395   48.119058   10.834278
205.179381   50.342642  345.700559
 0.25000    4.951395   48.127679   10.834278
205.159446   40.790637  316.194921
 0.50000    4.951395   48.136704   10.834278
205.140795   33.097126  297.150725
 0.75000    4.951395   48.146043   10.834278
205.123751   27.709463  286.406343
 1.00000    4.951395   48.155500   10.834278
205.108980   27.806279  282.003273
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                438

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.089404  -49.745239   -4.606942
-292.141144   -5.962575  -550.897115
 0.25000   -4.089404  -49.739074   -4.606942
-292.157634   -4.883579  -509.467002
 0.50000   -4.089404  -49.733360   -4.606942
-292.175587   -6.659288  -478.688573
 0.75000   -4.089404  -49.728225   -4.606942
-292.194629  -11.046490  -460.886517
 1.00000   -4.089404  -49.723790   -4.606942
-292.214428  -18.417652  -456.060192

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.059374  106.194952   11.930445
340.620017   75.930728  605.283218
 0.25000    7.059374  106.203571   11.930445
340.600141   96.284661  566.027235
 0.50000    7.059374  106.212594   11.930445
340.581542  126.273289  545.558246
 0.75000    7.059374  106.221931   11.930445
340.564545  158.692601  538.276551
 1.00000    7.059374  106.231385   11.930445
340.550042  196.601221  542.612054

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.189502  -90.790991  -35.787939
-490.095222  -13.187068   -1217.959
 0.25000   -11.189502  -90.784837  -35.787939
-490.111649   -5.501914   -1179.708
 0.50000   -11.189502  -90.779131  -35.787939
-490.129535   -5.912005   -1161.123
 0.75000   -11.189502  -90.774004  -35.787939
-490.148509  -10.226770   -1165.757
 1.00000   -11.189502  -90.769576  -35.787939
-490.168239  -18.392562   -1186.028

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.654111  227.259179   25.480228
366.912839   67.106955  862.571307
 0.25000    8.654111  227.352270   25.480228
366.698098   73.812116  808.501935
 0.50000    8.654111  227.449716   25.480228
366.497157   87.647693  781.928022
 0.75000    8.654111  227.550560   25.480228
366.313530  103.668443  780.487235
 1.00000    8.654111  227.652672   25.480228
366.156534  124.503528  791.064806

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.684307  -97.039839  -21.330880
-603.638971  -15.153708   -2145.972
 0.25000   -8.684307  -96.973355  -21.330880
-603.816464  -26.911470   -2222.643
 0.50000   -8.684307  -96.911719  -21.330880
-604.009727  -45.483664   -2334.791
 0.75000   -8.684307  -96.856342  -21.330880
-604.214739  -67.821430   -2480.101
 1.00000   -8.684307  -96.808510  -21.330880
-604.427913  -93.927844   -2644.089

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.038502  443.926213   54.447513
543.131439   60.614475   1190.011
 0.25000   15.038502  458.003311   54.447513
515.262020   63.888183   1079.214
 0.50000   15.038502  472.846811   54.447513
489.067217   74.415797   1005.472
 0.75000   15.038502  488.115267   54.447513
468.177819   87.217459  959.268958
 1.00000   15.038502  503.554753   54.447513
464.872797  104.345112  955.041344
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                439

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.987791 -127.822619  -19.318047
-654.343943   -45.781081   -3183.574
 0.25000  -10.987791 -118.455044  -19.318047
-662.354239   -68.404223   -3448.048
 0.50000  -10.987791 -109.749121  -19.318047
-686.303599  -143.340791   -3762.777
 0.75000  -10.987791 -101.941478  -19.318047
-711.731163  -201.712400   -4129.042
 1.00000  -10.987791  -95.236687  -19.318047
-738.308171  -263.472125   -4534.728

 COMB     DB ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    15.770424  620.839184   42.714266
604.443743   45.067382   1123.761
 0.25000    15.770424  648.718020   42.714266
604.443743   61.947631  829.493840
 0.50000    15.770424  677.859332   42.714266
604.443743   90.792313  749.075138
 0.75000    15.770424  707.605102   42.714266
604.443743  121.290120  774.353230
 1.00000    15.770424  736.994771   42.714266
604.443743  159.872779  799.635627

 COMB     DB ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -12.827625 -119.520098  -33.273405
-618.658936   -54.350630   -2549.850
 0.25000  -12.827625 -101.982870  -33.273405
-618.658936   -72.222495   -2709.238
 0.50000  -12.827625  -90.577827  -33.273405
-618.658936  -103.960043   -2870.799
 0.75000  -12.827625  -83.083032  -33.273405
-618.658936  -148.666095   -3033.011
 1.00000  -12.827625  -82.121404  -33.273405
-622.327386  -198.337532   -3196.265

 COMB     DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    17.065781  762.555421   54.447513
741.047246   75.930728   1425.529
 0.25000    17.065781  791.886441   54.447513
743.443144   96.284661   1235.469
 0.50000    17.065781  822.460297   54.447513
745.839042  126.273289   1105.266
 0.75000    17.065781  853.765364   54.447513
748.234940  158.692601   1023.846
 1.00000    17.065781  885.263043   54.447513
750.575818  196.601221   1045.821

 COMB     DL ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -18.053420 -129.879310  -39.695522
-734.353781   -97.266397   -4260.592
 0.25000  -18.053420 -118.455044  -39.695522
-734.353781  -120.643329   -4901.271
 0.50000  -18.053420 -109.749121  -39.695522
-734.353781  -155.687946   -5620.071
 0.75000  -18.053420 -101.941478  -39.695522
-734.353781  -210.037498   -6416.564
 1.00000  -18.053420  -96.808510  -39.695522
-738.308171  -266.833807   -7284.186

 COMB     CAR ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    17.065781  762.555421   54.447513
741.047246   75.930728   1425.529
 0.25000    17.065781  791.886441   54.447513
743.443144   96.284661   1235.469
 0.50000    17.065781  822.460297   54.447513
745.839042  126.273289   1105.266
 0.75000    17.065781  853.765364   54.447513
748.234940  158.692601   1023.846
 1.00000    17.065781  885.263043   54.447513
750.575818  196.601221   1045.821
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                440

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -18.053420 -129.879310  -39.695522
-734.353781   -97.266397   -4260.592
 0.25000  -18.053420 -118.455044  -39.695522
-734.353781  -120.643329   -4901.271
 0.50000  -18.053420 -109.749121  -39.695522
-734.353781  -155.687946   -5620.071
 0.75000  -18.053420 -101.941478  -39.695522
-734.353781  -210.037498   -6416.564
 1.00000  -18.053420  -96.808510  -39.695522
-738.308171  -266.833807   -7284.186

 COMB  DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    17.065781  762.555421   54.447513
741.047246   75.930728   1425.529
 0.25000    17.065781  791.886441   54.447513
743.443144   96.284661   1235.469
 0.50000    17.065781  822.460297   54.447513
745.839042  126.273289   1105.266
 0.75000    17.065781  853.765364   54.447513
748.234940  158.692601   1023.846
 1.00000    17.065781  885.263043   54.447513
750.575818  196.601221   1045.821

 COMB  DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -18.053420 -129.879310  -39.695522
-734.353781   -97.266397   -4260.592
 0.25000  -18.053420 -118.455044  -39.695522
-734.353781  -120.643329   -4901.271
 0.50000  -18.053420 -109.749121  -39.695522
-734.353781  -155.687946   -5620.071
 0.75000  -18.053420 -101.941478  -39.695522
-734.353781  -210.037498   -6416.564
 1.00000  -18.053420  -96.808510  -39.695522
-738.308171  -266.833807   -7284.186

 ELEM      10 ================== LENGTH
=    3.492083

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.680780   29.335091   18.584202
324.926635   71.783557  357.729770
 0.25000    6.680780   29.335091   18.584202
324.926635   57.518110  332.143050
 0.50000    6.680780   29.335091   18.584202
324.926635   43.636798  306.556329
 0.75000    6.680780   29.335091   18.584202
324.926635   29.757772  291.205255
 1.00000    6.680780   29.335091   18.584202
324.926635   16.584802  382.899831

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.919720 -510.676680   -3.793541
-483.616314   -11.160968   -1890.457
 0.25000   -8.919720 -492.679269   -3.793541
-483.616314   -7.870913   -1707.020
 0.50000   -8.919720 -474.550388   -3.793541
-483.616314   -16.313255   -1597.610
 0.75000   -8.919720 -456.754791   -3.793541
-483.616314   -27.454429   -1488.286
 1.00000   -8.919720 -439.409097   -3.793541
-483.616314   -39.209875   -1379.736

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    16.756526  50.974246   15.016604
505.003139   29.010299  616.999670
 0.25000    16.756526  50.974246   15.016604
505.003139   24.745934  572.851542
 0.50000    16.756526  50.974246   15.016604
505.003139   20.824663  528.703414
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                441

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000    16.756526  50.974246   15.016604
505.003139   17.051949  504.121764
 1.00000    16.756526  56.455398   15.016604
505.003139   13.382065  610.347550

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.106877 -728.690806  -46.220994
-571.944750 -181.853069   -2904.744
 0.25000  -10.106877 -706.118499  -46.220994
-571.944750 -148.077359   -2626.599
 0.50000  -10.106877 -683.368295  -46.220994
-571.944750 -122.345943   -2485.538
 0.75000  -10.106877 -660.978035  -46.220994
-571.944750  -96.701617   -2345.087
 1.00000  -10.106877 -639.113674  -46.220994
-571.944750  -71.361951   -2205.624

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.647243  71.479039   13.613177
593.679488   25.434831  779.177820
 0.25000    13.647243  71.479039   13.613177
593.679488   21.684905  723.421451
 0.50000    13.647243  71.479039   13.613177
593.679488   18.533651  667.665081
 0.75000    13.647243  71.479039   13.613177
593.679488   15.619985  630.369037
 1.00000    13.647243  77.235697   13.613177
593.679488   12.853554  707.470168

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.992347 -732.405620  -33.421702
-610.329938 -128.745915   -3195.358
 0.25000   -9.992347 -711.687312  -33.421702
-610.329938 -106.910355   -2886.121
 0.50000   -9.992347 -690.804392  -33.421702
-610.329938  -91.327403   -2762.059
 0.75000   -9.992347 -670.248113  -33.421702
-610.329938  -75.977688   -2643.821
 1.00000   -9.992347 -650.171674  -33.421702
-610.329938  -61.377493   -2526.760

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.507513  90.819403   34.415489
636.624392  112.395997  799.656460
 0.25000    13.507513  90.819403   34.415489
636.624392   89.626402  742.442191
 0.50000    13.507513  90.819403   34.415489
636.624392   67.630870  685.227371
 0.75000    13.507513  90.819403   34.415489
636.624392   47.476332  643.418540
 1.00000    13.507513  95.640421   34.415489
636.624392   30.805500  696.893093

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -13.244378 -639.545142  -30.988407
-621.408227 -110.259145   -2888.879
 0.25000  -13.244378 -622.270853  -30.988407
-621.408227  -90.441199   -2608.494
 0.50000  -13.244378 -604.860197  -30.988407
-621.408227  -77.209659   -2504.232
 0.75000  -13.244378 -587.721757  -30.988407
-621.408227  -64.173992   -2426.331
 1.00000  -13.244378 -570.983288  -30.988407
-621.408227  -51.784204   -2350.057

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.584086  23.660890    0.289796
207.350408   2.270717  286.627801
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                442

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000    10.584086  23.663475    0.289796
207.320627   2.147401  266.106740
 0.50000    10.584086  23.669717    0.289796
207.291500   2.144453  245.585679
 0.75000    10.584086  23.678725    0.289796
207.262783   2.229262  225.085646
 1.00000    10.584086  23.688093    0.289796
207.236028   2.415559  219.156619

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -1.204872 -163.492541  -47.416342
-84.902718 -190.866013 -980.139264
 0.25000   -1.204872 -163.482600  -47.416342
-84.902718 -149.520518 -884.077978
 0.50000   -1.204872 -163.472528  -47.416342
-84.921981 -108.285740 -866.906736
 0.75000   -1.204872 -163.462524  -47.416342
-84.948541  -67.123721 -850.245676
 1.00000   -1.204872 -163.452651  -47.416342
-84.976526  -26.382487 -833.770723

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.870697   59.978741   18.664131
368.564840   75.913693  512.354526
 0.25000    8.870697   59.981326   18.664131
368.535059   59.830390  475.683142
 0.50000    8.870697   59.987567   18.664131
368.505932   43.913594  439.011757
 0.75000    8.870697   59.996576   18.664131
368.477215   28.219380  402.361403
 1.00000    8.870697   60.005943   18.664131
368.450461   13.358481  379.274125

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.874341 -224.209500  -36.067974
-212.028556 -140.499228   -1471.132
 0.25000   -5.874341 -224.199559  -36.067974
-212.028556 -110.360872   -1327.067
 0.50000   -5.874341 -224.189487  -36.067974
-212.047818  -80.378565   -1314.159
 0.75000   -5.874341 -224.179482  -36.067974
-212.074379  -50.658638   -1315.538
 1.00000   -5.874341 -224.169633  -36.067974
-212.102363  -21.776939   -1317.763

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    11.616731  76.726313   22.757069
520.711471  73.655877  740.858790
 0.25000    11.616731  76.726313   22.757069
515.213144  55.394125  687.839134
 0.50000    11.616731  77.517824   22.757069
515.213144  40.118242  634.819478
 0.75000    11.616731  86.803467   22.757069
515.213144  26.609658  607.332413
 1.00000    11.616731  98.438412   22.757069
515.213144  14.385589  644.342129

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.544920 -590.484979  -49.301126
-448.168985 -198.262045   -2700.081
 0.25000   -9.544920 -573.164184  -49.301126
-448.168985 -156.949018   -2440.459
 0.50000   -9.544920 -555.662056  -49.301126
-448.168985 -116.239689   -2357.611
 0.75000   -9.544920 -538.359036  -49.301126
-448.168985  -76.257837   -2297.828
 1.00000   -9.544920 -521.395591  -49.301126
-452.231158  -50.174505   -2218.813
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                443

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    11.918699  92.576580   25.708650
581.667207   87.756452  759.595363
 0.25000    11.918699  92.576580   25.708650
577.087454   68.506874  705.044561
 0.50000    11.918699  93.235857   25.708650
577.087454   53.049779  650.893759
 0.75000    11.918699  100.970202  25.708650
577.087454   40.568726  617.809966
 1.00000    11.918699  110.661363  25.708650
577.087454   30.927488  638.493657

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.779716 -516.397693  -45.359764
-487.721352 -169.750530   -2423.596
 0.25000   -9.779716 -501.970584  -45.359764
-487.721352 -132.266930   -2188.790
 0.50000   -9.779716 -487.392436  -45.359764
-487.721352  -97.469477   -2116.624
 0.75000   -9.779716 -472.980132  -45.359764
-487.721352  -64.021154   -2079.987
 1.00000   -9.779716 -458.850672  -45.359764
-491.104881  -42.400870   -2044.596

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.693971   42.309502    3.858561
230.631109   18.989374  211.556448
 0.25000    3.693971   42.312125    3.858561
230.601228   21.390442  196.431044
 0.50000    3.693971   42.318402    3.858561
230.572058   23.996199  181.305640
 0.75000    3.693971   42.327416    3.858561
230.545296   26.788188  166.180308
 1.00000    3.693971   42.336790    3.858561
230.516121   29.750571  151.127598

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.834912  -35.269664   -8.198033
-174.823786  -13.415423  -233.803643
 0.25000   -3.834912  -35.259719   -8.198033
-174.823786  -10.293857  -207.617673
 0.50000   -3.834912  -35.249642   -8.198033
-174.843289   -7.558268   -201.024304
 0.75000   -3.834912  -35.239633   -8.198033
-174.870267   -5.180685  -233.430457
 1.00000   -3.834912  -35.229779   -8.198033
-174.898290   -3.266400  -266.548642

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.015746   80.520955   37.911994
391.299306  159.176845  402.606515
 0.25000    6.015746   80.523540   37.911994
391.269525  131.335459  373.814865
 0.50000    6.015746   80.529781   37.911994
391.240398  103.963270  345.023216
 0.75000    6.015746   80.538790   37.911994
391.211681   77.314736  316.252597
 1.00000    6.015746   80.548158   37.911994
391.184926   52.451549  288.053988

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.066426  -82.019785  -11.795623
-301.312112  -16.852361  -596.102829
 0.25000  -11.066426  -82.009844  -11.795623
-301.312112   -9.295464   -534.854845
 0.50000  -11.066426  -81.999772  -11.795623
-301.331375   -4.704153   -529.232285
 0.75000  -11.066426  -81.989767  -11.795623
-301.357935   -3.307744   -581.741682
 1.00000  -11.066426  -81.979918  -11.795623
-301.385920   -3.240217   -635.870608
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                444

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.354397   90.382982   19.732106
499.412508   87.218134  598.007771
 0.25000    7.354397   90.385308   19.732106
499.385705   74.793894  555.224786
 0.50000    7.354397   90.390926   19.732106
499.359491   62.815767  512.441801
 0.75000    7.354397   90.399034   19.732106
```

```
499.333645   51.516052  469.677743
  1.00000    7.354397   90.407464    19.732106
499.309566   41.460356  427.814866

  COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -8.203372 -176.289376  -19.717446
-343.826083  -52.613152  -1254.303
  0.25000   -8.203372 -176.280429  -19.717446
-343.826083  -37.856196  -1126.309
  0.50000   -8.203372 -176.271364  -19.717446
-343.843419  -25.647151  -1117.925
  0.75000   -8.203372 -176.262360  -19.717446
-343.867324  -16.532269  -1161.937
  1.00000   -8.203372 -176.253496  -19.717446
-343.892510   -9.290180  -1207.535

  COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   13.353782   94.168204   18.545689
611.680114   73.415590  725.423015
  0.25000   13.353782   94.168204   18.545689
592.351505   62.527875  673.517255
  0.50000   13.353782   98.751174   18.545689
571.938077   52.700090  621.611495
  0.75000   13.353782  105.228146   18.545689
561.218028   43.881450  587.973946
  1.00000   13.353782  114.556243   18.545689
561.218028   36.394143  585.832777

  COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -9.473762 -411.713256  -52.931561
-421.550827  -194.871749  -2057.401
  0.25000   -9.473762 -401.573594  -52.931561
-421.550827  -150.889352  -1857.031
  0.50000   -9.473762 -391.313638  -52.931561
-421.550827  -109.093648  -1806.421
  0.75000   -9.473762 -381.145949  -52.931561
-438.230185   -70.218571  -1799.530
  1.00000   -9.473762 -371.156628  -52.931561
-458.963571   -35.989543  -1793.969

  COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    8.530807   40.920159   39.957497
434.052741  101.907845  461.075069
  0.25000    8.530807   41.072375   39.957497
435.141902   68.535258  432.384007
  0.50000    8.530807   41.410829   39.957497
435.474424   41.675804  445.411257
  0.75000    8.530807   45.937438   39.957497
435.474424   25.423744  501.390397
  1.00000    8.530807   53.703703   39.957497
435.474424   16.036987  564.172943

  COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -17.312944 -636.682545   -4.757629
-631.331578  -14.217322  -4401.340
  0.25000  -17.312944 -616.500046   -4.757629
-626.394210  -11.586470  -3951.359
  0.50000  -17.312944 -596.250771   -4.757629
-620.700204  -19.842598  -3528.688
  0.75000  -17.312944 -576.337246   -4.757629
-614.673189  -39.226983  -3133.017
  1.00000  -17.312944 -556.846942   -4.757629
-608.646660  -64.215637  -2762.631
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       445

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   20.499744   78.736182   32.730203
635.345151   54.603274  798.768111
  0.25000   20.499744   79.072506   32.730203
635.483545   35.934813  747.942166
  0.50000   20.499744   81.504558   32.730203
635.483545   22.087200  755.140686
  0.75000   20.499744   91.248888   32.730203
635.483545   14.273386  812.353986
  1.00000   20.499744  101.564126   32.730203
635.483545   16.169070  908.886849

  COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -18.866543 -906.605471   -59.478339
-727.229102  -249.358801  -6691.899
  0.25000  -18.866543 -882.258338   -59.478339
-725.048901  -206.055426  -6055.118
  0.50000  -18.866543 -858.055853   -59.478339
-722.729386  -170.874428  -5453.892
  0.75000  -18.866543 -834.138927   -59.478339
-720.409872  -145.265547  -4892.322
  1.00000  -18.866543 -810.817199   -59.478339
-718.090440  -122.419224  -4367.034

  COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   17.880036  114.331443   31.708501
736.990220   57.778496  1018.625
  0.25000   17.880036  114.635158   31.708501
737.067880   40.003836  951.862122
  0.50000   17.880036  117.360531   31.708501
737.067880   26.066522  938.914692
  0.75000   17.880036  126.380153   31.708501
737.067880   20.591004  970.551681
  1.00000   17.880036  135.930132   31.708501
737.067880   18.311054  1034.435

  COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -17.967763 -914.007745   -48.286021
-761.067586  -195.861021  -7284.042
  0.25000  -17.967763 -891.677939   -48.286021
-759.011903  -167.324192  -6649.715
  0.50000  -17.967763 -869.489598   -48.286021
-757.790438  -136.231676  -6048.072
  0.75000  -17.967763 -847.560547   -48.286021
-756.112953  -118.112338  -5483.358
  1.00000  -17.967763 -826.181551   -48.286021
-754.435527  -103.222366  -4954.338

  COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   17.271142  144.431486   50.752831
782.596931  159.853726  1045.314
  0.25000   17.271142  144.684646   50.752831
782.661664  124.929508  972.832904
  0.50000   17.271142  146.956118   50.752831
782.661664   93.965061  946.900335
  0.75000   17.271142  154.474633   50.752831
782.661664   70.957020  959.127390
  1.00000   17.271142  162.434975   50.752831
782.661664   51.737137  999.327110

  COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -20.947912 -798.989080   -43.826323
-779.011903  -166.978824  -6498.799
  0.25000  -20.947912 -780.376171   -43.826323
-777.678510  -137.745169  -5964.757
  0.50000  -20.947912 -761.881179   -43.826323
-776.280250  -115.140601  -5459.893
  0.75000  -20.947912 -743.602317   -43.826323
-774.881990   -99.711940  -4987.046
  1.00000  -20.947912 -725.781951   -43.826323
-773.483780   -86.963090  -4545.526
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       446

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   12.348125   41.013284    0.240935
213.757266    2.978453  370.010642
  0.25000   12.348125   41.016726    0.240935
213.742717    2.923014  343.552130
  0.50000   12.348125   41.020554    0.240935
213.728554    3.007459  319.384943
  0.75000   12.348125   41.024712    0.240935
213.714882    3.196690  304.630514
  1.00000   12.348125   41.029139    0.240935
213.701880    3.423126  317.109754

  COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -1.425474 -213.600458   -62.376902
-84.618927  -266.557663  -2169.304
  0.25000   -1.425474 -213.593609   -62.376902
-84.630596  -212.203998  -2012.845
  0.50000   -1.425474 -213.586814   -62.376902
-84.643402  -157.932815  -1859.901
  0.75000   -1.425474 -213.580147   -62.376902
-84.657073  -103.753583  -1715.955
  1.00000   -1.425474 -213.573690   -62.376902
-84.671483   -49.646336  -1581.752

  COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   10.877767  100.106201   19.802695
408.516471   89.299847  674.512340
  0.25000   10.877767  100.109644   19.802695
408.501916   72.505336  624.159694
  0.50000   10.877767  100.113472   19.802695
408.487747   55.994377  577.882741
  0.75000   10.877767  100.117631   19.802695
408.474069   39.637033  541.594207
  1.00000   10.877767  100.122060   19.802695
408.461061   23.721152  533.241222

  COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -6.395571 -290.666546   -48.605039
-240.674492  -200.579203  -3200.340
  0.25000   -6.395571 -290.659696   -48.605039
-240.686166  -159.084103  -3007.875
  0.50000   -6.395571 -290.652901   -48.605039
-240.698976  -117.796733  -2820.435
  0.75000   -6.395571 -290.646229   -48.605039
-240.712653   -76.707429  -2643.775
  1.00000   -6.395571 -290.639778   -48.605039
-240.727068   -36.226020  -2479.015

  COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   16.267127  121.291030   26.136635
643.118191   85.592941  969.268984
  0.25000   16.267127  126.530590   26.136635
620.078456   67.075067  905.999707
  0.50000   16.267127  135.236439   26.136635
615.743689   51.509795  897.186639
  0.75000   16.267127  144.727068   26.136635
612.850621   37.715282  902.754760
  1.00000   16.267127  154.816983   26.136635
611.403554   24.973843  928.097273

  COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -13.413147 -728.729676   -60.468260
-531.008771  -267.324192  -6670.369
  0.25000  -13.413147 -709.921771   -60.468260
-533.846032  -218.716503  -5586.236
  0.50000  -13.413147 -691.176436   -60.468260
-538.012781  -171.920275  -5127.126
  0.75000  -13.413147 -672.725231   -60.468260
-543.621229  -126.397361  -4705.892
  1.00000  -13.413147 -654.860669   -60.468260
-562.763909   -87.794860  -4320.472
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       447

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   16.503946  147.523588   30.299155
720.863468  116.828073  996.166449
  0.25000   16.503946  151.888519   30.299155
701.669706   96.689074  929.216805
  0.50000   16.503946  159.141120   30.299155
698.058532   80.297104  909.081724
  0.75000   16.503946  167.047498   30.299155
695.648397   66.638672  901.592959
  1.00000   16.503946  175.453127   30.299155
694.442886   54.965924  911.494859

  COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -14.162902 -641.163460   -55.732421
-595.904902  -226.234739  -5397.237
  0.25000  -14.162902 -625.495117   -55.732421
-598.017899  -183.158190  -4992.018
  0.50000  -14.162902 -609.878900   -55.732421
-601.673102  -143.237126  -4609.572
  0.75000  -14.162902 -594.507715   -55.732421
-606.345344  -105.399418  -4259.447
  1.00000  -14.162902 -579.581925   -55.732421
-622.292579   -73.890462  -3940.342

  COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    6.344779   68.165241    4.898911
293.001733   27.940069  281.881835
  0.25000    6.344779   68.168686    4.898911
292.987159   30.135056  261.595142
  0.50000    6.344779   68.172517    4.898911
292.972971   34.902149  243.725057
  0.75000    6.344779   68.176679    4.898911
292.959274   41.880540  227.623882
  1.00000    6.344779   68.181111    4.898911
292.946247   50.515197  213.496711

  COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -4.711106  -51.325469   -14.796786
-236.267774  -18.791741 -454.701028
  0.25000   -4.711106  -51.318619   -14.796786
-236.279461  -11.617613 -451.308176
  0.50000   -4.711106  -51.311822   -14.796786
-236.292286   -4.044863 -451.466702
  0.75000   -4.711106  -51.305149   -14.796786
-236.305978   -4.741865 -454.043699
  1.00000   -4.711106  -51.298697   -14.796786
-236.320409   -4.341278 -458.953781

  COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    8.404945  129.016583   42.397908
483.209873  196.686235  541.396173
  0.25000    8.404945  129.020021   42.397908
483.195350  166.635062  498.496112
  0.50000    8.404945  129.023845   42.397908
483.181208  139.503046  459.606260
  0.75000    8.404945  129.028000   42.397908
483.167560  114.580206  424.099329
  1.00000    8.404945  129.032423   42.397908
483.154587   91.803908  393.230960

  COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -13.144684 -110.624875   -16.692010
-397.646538  -19.022956  -1185.281
  0.25000  -13.144684 -110.618027   -16.692010
-397.658190   -1.483395  -1159.503
  0.50000  -13.144684 -110.611234   -16.692010
-397.670976   -5.732955  -1144.422
  0.75000  -13.144684 -110.604563   -16.692010
-397.684627   -4.481237  -1134.482
  1.00000  -13.144684 -110.598113   -16.692010
-397.699015   -5.211186  -1129.605
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       448

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   11.008493  146.735596   25.137286
592.904341  124.606141  790.290449
  0.25000   11.008493  146.772742   25.137286
592.747425  108.638421  731.475165
  0.50000   11.008493  146.814050   25.137286
592.594618   95.124946  676.575958
  0.75000   11.008493  146.858928   25.137286
592.447159   83.568045  627.193637
  1.00000   11.008493  146.906711   25.137286
592.306985   73.953480  585.805966

  COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -9.987850 -232.968167   -33.330066
-424.927609  -94.216064  -2641.380
  0.25000   -9.987850 -232.894206   -33.330066
-425.053496  -70.173454  -2522.917
  0.50000   -9.987850 -232.820830   -33.330066
-425.191643  -49.311982  -2409.411
  0.75000   -9.987850 -232.748779   -33.330066
-425.339129  -31.448164  -2303.076
  1.00000   -9.987850 -232.679116   -33.330066
-425.494575  -16.065844  -2206.621

  COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   18.569213  152.976385   23.321764
742.830430  104.714734  954.648644
  0.25000   18.569213  158.104393   23.321764
723.278185   91.107131  892.899702
  0.50000   18.569213  163.829038   23.321764
704.230658   80.155879  862.889012
  0.75000   18.569213  170.038509   23.321764
685.948972   71.320908  840.315582
  1.00000   18.569213  176.657145   23.321764
672.276226   64.529025  835.708392

  COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -12.213839 -515.010964   -68.194035
-517.959276  -263.013273  -6430.361
  0.25000  -12.213839 -503.885803   -68.194035
-520.466687  -209.770661  -4218.933
  0.50000  -12.213839 -492.835583   -68.194035
-537.248277  -158.676281  -3925.968
  0.75000  -12.213839 -481.983869   -68.194035
-556.270141  -110.549874  -3659.962
  1.00000  -12.213839 -471.443178   -68.194035
-576.342364   -65.622700  -3417.466

  COMB DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   16.756526   94.168204   37.911994
636.624392  159.176845  799.656460
  0.25000   16.756526   94.168204   37.911994
636.624392  131.335459  742.442191
  0.50000   16.756526   98.751174   37.911994
636.624392  103.963270  685.227371
  0.75000   16.756526  105.228146   37.911994
636.624392   77.141736  643.418540
  1.00000   16.756526  114.556243   37.911994
636.624392   52.451549  707.470168

  COMB DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -13.244378 -732.405620   -52.931561
-621.408227  -198.262045  -3195.358
  0.25000  -13.244378 -711.687312   -52.931561
-621.408227  -156.949018  -2886.121
  0.50000  -13.244378 -690.804392   -52.931561
-621.408227  -122.345943  -2762.059
  0.75000  -13.244378 -670.248113   -52.931561
-621.408227   -96.701617  -2643.821
  1.00000  -13.244378 -650.171674   -52.931561
-621.408227   -71.361951  -2526.760
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       449

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   20.499744  152.976385   50.752831
782.596931  196.686235  1045.314
  0.25000   20.499744  158.104393   50.752831
782.661664  166.635062  972.832904
  0.50000   20.499744  163.829038   50.752831
782.661664  139.503046  946.900335
  0.75000   20.499744  170.038509   50.752831
782.661664  114.580206  970.551681
  1.00000   20.499744  176.657145   50.752831
782.661664   91.803908  1034.435

  COMB DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -20.947912 -914.007745   -68.194035
-779.011903  -267.324192   -7284.042
  0.25000  -20.947912 -891.677939   -68.194035
-777.678510  -218.716503   -6649.715
  0.50000  -20.947912 -869.489598   -68.194035
-776.280250  -171.920275   -6048.072
  0.75000  -20.947912 -847.560547   -68.194035
-774.881990  -145.265547   -5483.358
  1.00000  -20.947912 -826.181551   -68.194035
-773.483780  -122.419224   -4954.338

  COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   20.499744  152.976385   50.752831
782.596931  196.686235  1045.314
  0.25000   20.499744  158.104393   50.752831
782.661664  166.635062  972.832904
  0.50000   20.499744  163.829038   50.752831
782.661664  139.503046  946.900335
  0.75000   20.499744  170.038509   50.752831
782.661664  114.580206  970.551681
  1.00000   20.499744  176.657145   50.752831
782.661664   91.803908  1034.435

  COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -20.947912 -914.007745   -68.194035
-779.011903  -267.324192   -7284.042
  0.25000  -20.947912 -891.677939   -68.194035
-777.678510  -218.716503   -6649.715
  0.50000  -20.947912 -869.489598   -68.194035
-776.280250  -171.920275   -6048.072
  0.75000  -20.947912 -847.560547   -68.194035
-774.881990  -145.265547   -5483.358
  1.00000  -20.947912 -826.181551   -68.194035
-773.483780  -122.419224   -4954.338

  COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   20.499744  152.976385   50.752831
782.596931  196.686235  1045.314
  0.25000   20.499744  158.104393   50.752831
782.661664  166.635062  972.832904
  0.50000   20.499744  163.829038   50.752831
782.661664  139.503046  946.900335
  0.75000   20.499744  170.038509   50.752831
782.661664  114.580206  970.551681
  1.00000   20.499744  176.657145   50.752831
782.661664   91.803908  1034.435

  COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -20.947912 -914.007745   -68.194035
-779.011903  -267.324192   -7284.042
  0.25000  -20.947912 -891.677939   -68.194035
-777.678510  -218.716503   -6649.715
  0.50000  -20.947912 -869.489598   -68.194035
-776.280250  -171.920275   -6048.072
  0.75000  -20.947912 -847.560547   -68.194035
-774.881990  -145.265547   -5483.358
  1.00000  -20.947912 -826.181551   -68.194035
-773.483780  -122.419224   -4954.338
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       450

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  ELEM       11 ================== LENGTH =    4.987270

  COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    7.355207   27.617879    5.165994
180.255403   17.230974  383.217619
  0.25000    7.355207   40.000286    5.165994
180.255403   15.334667  595.358233
  0.50000    7.355207   60.738211    5.165994
180.255403   15.067236  831.690655
  0.75000    7.355207   83.084285    5.165994
180.255403   16.011398  1051.598178
  1.00000    7.355207  105.599871    5.165994
180.255403   17.884325  1215.909

  COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -8.692820 -438.911725   -2.762600
-547.159088  -39.868206  -1380.659
  0.25000   -8.692820 -413.728082   -2.762600
-547.159088  -42.484912  -1278.841
  0.50000   -8.692820 -387.871866   -2.762600
-547.159088  -45.314639  -1177.109
  0.75000   -8.692820 -362.847115   -2.762600
-547.159088  -48.233837  -1075.799
  1.00000   -8.692820 -339.192886   -2.762600
-547.159088  -51.278063  -974.488723

  COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   17.490734   48.260657    2.340726
314.736661   13.874445  610.534258
  0.25000   17.490734   66.669528    2.340726
314.736661   16.085757  885.956194
  0.50000   17.490734   92.027459    2.340726
314.736661   25.865229  1222.537
  0.75000   17.490734  121.153820    2.340726
314.736661   44.019139  1556.636
  1.00000   17.490734  150.365703    2.340726
314.736661   63.210310  1876.207

  COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000  -10.058818 -641.281279   -16.634626
-630.699872  -72.502956  -2206.702
  0.25000  -10.058818 -609.056319   -16.634626
-630.699872  -64.097557  -2063.898
  0.50000  -10.058818 -576.831787   -16.634626
-630.699872  -62.509479  -1921.260
  0.75000  -10.058818 -545.608517   -16.634626
-630.699872  -62.030777  -1779.110
  1.00000  -10.058818 -516.025773   -16.634626
-630.699872  -62.261770  -1636.975

  COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   14.481786   62.143009    2.134343
455.139228   13.454613  707.659458
  0.25000   14.481786   79.158318    2.134343
455.139228   17.320573  928.794827
  0.50000   14.481786  103.277768    2.134343
455.139228   25.780053  1222.318
  0.75000   14.481786  129.200336    2.134343
455.139228   38.949262  1595.268
  1.00000   14.481786  156.099333    2.134343
455.139228   52.864718  1961.859

  COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -9.958775 -665.535836   -12.199214
-595.955433  -62.985817  -2527.514
  0.25000   -9.958775 -635.909808   -12.199214
-595.955433  -57.280970  -2392.410
  0.50000   -9.958775 -606.348192   -12.199214
-595.955433  -55.659327  -2257.420
Program    SAP2000    Nonlinear    Version    7.42
```

File:하행S11-S1503.OUT

Page
< MOVING LOAD >
451

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -9.958775 -577.701911 -12.199214
-595.955433 -55.504442 -2123.032
1.00000 -9.958775 -550.557578 -12.199214
-595.955433 -55.760496 -1988.903

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.292982 66.130307 8.873224
543.916918 31.067401 697.087187
0.25000 14.292982 80.319917 8.873224
543.916918 30.079080 864.861871
0.50000 14.292982 100.429453 8.873224
543.916918 34.755377 1093.212
0.75000 14.292982 122.042186 8.873224
543.916918 44.687594 1413.283
1.00000 14.292982 144.471126 8.873224
543.916918 55.541681 1756.035

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.140057 -592.635358 -10.702690
-557.668649 -53.108750 -2350.357
0.25000 -13.140057 -567.933967 -10.702690
-557.668649 -48.677074 -2249.904
0.50000 -13.140057 -543.288181 -10.702690
-557.668649 -55.011299 -2149.941
0.75000 -13.140057 -519.405422 -10.702690
-557.668649 -63.013994 -2050.767
1.00000 -13.140057 -496.774762 -10.702690
-557.668649 -71.731600 -1952.155

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.545081 23.109143 0.188849
182.532441 2.009504 219.046123
0.25000 10.545081 23.119956 0.188849
182.489782 1.931550 221.197070
0.50000 10.545081 23.131993 0.188849
182.452919 8.946732 285.659816
0.75000 10.545081 23.144815 0.188849
182.419807 25.015364 414.553813
1.00000 10.545081 23.159833 0.188849
182.408713 41.592662 572.876642

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.383973 -157.325266 -13.410292
-52.885498 -26.859375 -833.764876
0.25000 -1.383973 -157.309876 -13.410292
-52.902502 -16.536799 -802.279448
0.50000 -1.383973 -157.296050 -13.410292
-52.935440 -12.003508 -770.857491
0.75000 -1.383973 -157.282580 -13.410292
-52.974899 -9.654615 -739.466786
1.00000 -1.383973 -157.269735 -13.410292
-53.019945 -6.091531 -708.348848

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.048034 42.220120 5.538361
384.635379 13.103685 379.186094
0.25000 9.048034 42.230933 5.538361
384.592720 10.879618 355.367486
0.50000 9.048034 42.242970 5.538361
384.555857 15.333604 393.949607
0.75000 9.048034 42.255792 5.538361
384.522745 26.166310 574.466881
1.00000 9.048034 42.270810 5.538361
384.511651 37.592491 803.010720

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.089619 -232.508094 -9.519962
-100.602700 -22.737161 -1317.433
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
452

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -6.089619 -232.492704 -9.519962
-100.619705 -14.164521 -1288.704
0.50000 -6.089619 -232.478878 -9.519962
-100.652643 -15.295871 -1260.129
0.75000 -6.089619 -232.465408 -9.519962
-100.692101 -18.327052 -1231.971
1.00000 -6.089619 -232.452563 -9.519962
-100.737148 -22.425309 -1204.237

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.262977 61.868759 5.761701
451.089627 13.136442 644.390484
0.25000 12.262977 78.494906 5.761701
451.089627 14.405398 802.740211
0.50000 12.262977 99.041667 5.761701
451.089627 25.200781 1016.825
0.75000 12.262977 121.032151 5.761701
451.089627 41.068246 1323.197
1.00000 12.262977 145.272425 5.761701
451.089627 57.382098 1639.768

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.270449 -559.647529 -14.082634
-381.067706 -51.612427 -2219.084
0.25000 -10.270449 -533.904038 -14.082634
-381.067706 -44.081400 -2122.532
0.50000 -10.270449 -509.486862 -14.082634
-381.067706 -44.592055 -2026.247
0.75000 -10.270449 -485.765929 -14.082634
-406.089181 -46.564592 -1930.549
1.00000 -10.270449 -463.221380 -14.082634
-439.102393 -49.427503 -1835.217

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.558118 66.892369 8.251325
539.611673 29.516814 638.581296
0.25000 12.558118 80.740882 8.251325
539.611673 29.950520 754.618723
0.50000 12.558118 97.855014 8.251325
539.611673 38.086979 916.905954
0.75000 12.558118 116.171673 8.251325
539.611673 50.372434 1184.008
1.00000 12.558118 136.362264 8.251325
539.611673 63.156428 1478.072

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.590320 -497.208212 -12.359956
-388.204336 -43.345238 -2044.461
0.25000 -10.590320 -475.765538 -12.359956
-388.204336 -38.316477 -1979.690
0.50000 -10.590320 -455.427600 -12.359956
-388.204336 -42.570147 -1915.569
0.75000 -10.590320 -435.669586 -12.359956
-409.045618 -48.472467 -1852.099
1.00000 -10.590320 -416.891426 -12.359956
-436.543502 -55.236344 -1789.261

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.843854 24.836815 4.184443
248.953524 29.196129 151.207704
0.25000 3.843854 24.847633 4.184443
248.910792 29.004298 127.434428
0.50000 3.843854 24.859677 4.184443
248.873872 29.108224 103.680060
0.75000 3.843854 24.872505 4.184443
248.840428 29.309764 129.393364
1.00000 3.843854 24.887534 4.184443
248.828914 29.528898 171.007608
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
453

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.120212 -43.183159 -1.298641
-115.186873 -3.145879 -265.985722
0.25000 -4.120212 -43.167760 -1.298641
-115.204083 -4.054149 -291.864709
0.50000 -4.120212 -43.153929 -1.298641
-115.237433 -6.525110 -318.250406
0.75000 -4.120212 -43.140455 -1.298641
-115.278950 -10.037919 -345.174916
1.00000 -4.120212 -43.127605 -1.298641
-115.322071 -14.153518 -372.533081

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.268362 41.515434 14.663147
440.292399 51.799398 288.157957
0.25000 6.268362 41.526247 14.663147
440.249740 43.624265 245.046697
0.50000 6.268362 41.538284 14.663147
440.212878 40.791980 202.704273
0.75000 6.268362 41.551106 14.663147
440.179766 40.615487 253.118295
1.00000 6.268362 41.566124 14.663147
440.168671 40.750493 351.079396

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.314367 -101.466902 -1.952168
-174.831265 -2.725882 -634.978224
0.25000 -11.314367 -101.451513 -1.952168
-174.848270 -5.257380 -668.640246
0.50000 -11.314367 -101.437684 -1.952168
-174.881207 -18.504252 -703.160093
0.75000 -11.314367 -101.424217 -1.952168
-174.920666 -34.576716 -738.449876
1.00000 -11.314367 -101.411372 -1.952168
-174.965713 -51.387770 -774.614572

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.677140 56.617853 9.315475
554.287211 40.835846 427.890240
0.25000 7.677140 56.627585 9.315475
554.248818 38.450126 365.929439
0.50000 7.677140 56.638419 9.315475
554.215641 39.267281 346.930761
0.75000 7.677140 56.649959 9.315475
554.185840 41.709267 488.280874
1.00000 7.677140 56.663474 9.315475
554.175855 44.342686 682.435367

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.586271 -198.875543 -3.780153
-180.848458 -8.388038 -1234.322
0.25000 -8.586271 -198.861692 -3.780153
-180.863762 -9.519910 -1219.606
0.50000 -8.586271 -198.849249 -3.780153
-180.893406 -15.572626 -1233.242
0.75000 -8.586271 -198.837126 -3.780153
-180.928919 -23.352237 -1247.725
1.00000 -8.586271 -198.825560 -3.780153
-180.969461 -31.995104 -1263.050

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.606536 66.893411 8.032302
600.530891 35.171809 585.863407
0.25000 13.606536 77.412888 8.032302
575.428569 33.683331 649.608828
0.50000 13.606536 89.569344 8.032302
553.724518 42.311520 756.705833
0.75000 13.606536 102.547372 8.032302
553.724518 55.947954 990.931376
1.00000 13.606536 117.313352 8.032302
553.724518 70.770969 1256.619
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
454

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.175079 -408.297131 -13.965214
-300.223338 -36.529067 -1793.515
0.25000 -10.175079 -392.906744 -13.965214
-300.223338 -30.822459 -1756.663
0.50000 -10.175079 -378.710583 -13.965214
-322.897861 -33.336577 -1720.440
0.75000 -10.175079 -364.899512 -13.965214
-348.541330 -37.871728 -1684.967
1.00000 -10.175079 -351.750891 -13.965214
-372.926165 -43.751606 -1650.214

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.407889 52.845137 6.842313
263.236554 15.106427 564.457122
0.25000 9.407889 64.361954 6.842313
263.236554 14.370316 661.979543
0.50000 9.407889 77.412207 6.842313
263.236554 14.981929 765.864502
0.75000 9.407889 91.629604 6.842313
263.236554 16.873539 869.767907
1.00000 9.407889 106.539004 6.842313
263.236554 19.140714 970.521938

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.923431 -502.227354 -3.064136
-693.244157 -62.992335 -2761.675
0.25000 -17.923431 -475.637630 -3.064136
-684.637283 -67.521666 -2362.511
0.50000 -17.923431 -449.380291 -3.064136
-676.030408 -72.727553 -2006.753
0.75000 -17.923431 -423.895450 -3.064136
-667.423534 -78.547067 -1689.329
1.00000 -17.923431 -399.682127 -3.064136
-658.816660 -84.748854 -1406.623

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 21.629917 88.024833 4.368209
421.726788 14.523367 909.025429
0.25000 21.629917 102.474797 4.368209
421.726788 16.535550 1014.747
0.50000 21.629917 118.860655 4.368209
421.726788 26.153232 1154.113
0.75000 21.629917 136.687681 4.368209
421.726788 46.240408 1324.319
1.00000 21.629917 155.430374 4.368209
421.726788 68.453519 1510.644

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.889016 -742.398429 -20.976141
-787.268812 -120.810859 -4366.178
0.25000 -19.889016 -710.336508 -20.976141
-783.956095 -104.533121 -3757.519
0.50000 -19.889016 -678.726619 -20.976141
-780.643447 -97.131142 -3216.971
0.75000 -19.889016 -648.090207 -20.976141
-777.330799 -95.962427 -2735.964
1.00000 -19.889016 -619.012743 -20.976141
-774.018151 -96.853133 -2311.920

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.949217 108.774625 4.743177
582.832990 17.241644 1034.484
0.25000 18.949217 122.082405 4.743177
582.832990 20.565120 1112.980
0.50000 18.949217 137.171032 4.743177
582.832990 28.708420 1242.552
0.75000 18.949217 153.587795 4.743177
582.832990 43.508450 1425.901
1.00000 18.949217 170.853128 4.743177
582.832990 60.114303 1640.180
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
455

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.919347 -785.549383 -16.334138
-740.134071 -102.319882 -4953.886
0.25000 -18.919347 -756.133501 -16.334138
-737.738296 -92.243078 -4295.116
0.50000 -18.919347 -727.139647 -16.334138
-735.342572 -87.733056 -3711.181
0.75000 -18.919347 -699.042267 -16.334138
-732.946847 -87.416030 -3197.286
1.00000 -18.919347 -672.378982 -16.334138
-730.551123 -88.802856 -2751.064

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.256490 119.083329 12.868114
686.100093 50.788197 999.343601
0.25000 18.256490 130.175970 12.868114
686.100093 44.943105 1050.510
0.50000 18.256490 142.753027 12.868114
686.100093 46.664408 1150.392
0.75000 18.256490 156.437145 12.868114
686.100093 56.105136 1309.867
1.00000 18.256490 170.828586 12.868114
686.100093 68.056957 1507.772

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -21.786117 -703.897362 -14.158410
-701.544233 -73.231552 -4545.354
0.25000 -21.786117 -679.377887 -14.158410
-699.547246 -78.250112 -3964.532
0.50000 -21.786117 -655.210191 -14.158410
-697.550301 -80.487275 -3453.201
0.75000 -21.786117 -631.789747 -14.158410
-695.553355 -88.227907 -3008.814
1.00000 -21.786117 -609.564686 -14.158410
-693.556410 -98.431462 -2629.771

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.504659 34.594722 0.239674
195.385650 2.877598 316.969848
0.25000 12.504659 34.599757 0.239674
195.367075 2.691038 301.409885
0.50000 12.504659 34.605441 0.239674
195.349335 10.522315 328.017467
0.75000 12.504659 34.611640 0.239674
195.332796 28.185326 395.220183
1.00000 12.504659 34.618217 0.239674
195.317811 49.131540 487.982146

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.772147 -203.170848 -18.533774
-54.385070 -49.408493 -1582.036
0.25000 -1.772147 -203.161591 -18.533774
-54.401075 -28.945872 -1385.867
0.50000 -1.772147 -203.152536 -18.533774
-54.418847 -16.187854 -1212.463
0.75000 -1.772147 -203.143825 -18.533774
-54.437979 -10.573577 -1061.675
1.00000 -1.772147 -203.135645 -18.533774
-54.458211 -7.045465 -934.312306

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.065727 67.903617 6.830942
440.360608 23.842502 533.049964
0.25000 11.065727 67.908653 6.830942
440.342024 19.181133 496.807700
0.50000 11.065727 67.914338 6.830942
440.324276 21.612817 516.319397
0.75000 11.065727 67.920538 6.830942
440.307728 31.946287 604.531341
1.00000 11.065727 67.927116 6.830942
440.292735 44.470634 738.749941
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
456

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.721566 -302.942889 -13.356673
-115.516411 -36.642975 -2479.633
0.25000 -6.721566 -302.933632 -13.356673
-115.532422 -23.103540 -2194.199
0.50000 -6.721566 -302.924576 -13.356673
-115.550200 -18.259020 -1944.265
0.75000 -6.721566 -302.915865 -13.356673
-115.569339 -19.314795 -1731.939
1.00000 -6.721566 -302.907684 -13.356673
-115.589578 -22.706372 -1558.330

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.827302 106.526512 6.898749
581.255934 23.617575 927.990469
0.25000 16.827302 119.040126 6.898749
555.980960 22.940168 979.368397
0.50000 16.827302 133.199167 6.898749
553.407278 30.899506 1076.137
0.75000 16.827302 148.626635 6.898749
553.094626 45.987135 1223.119
1.00000 16.827302 164.927930 6.898749
553.051897 63.555416 1399.455

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.361785 -662.674154 -19.190420
-453.878461 -87.175829 -4320.947
0.25000 -14.361785 -637.502142 -19.190420
-460.309118 -71.382499 -3799.853
0.50000 -14.361785 -612.785680 -19.190420
-470.477000 -64.300412 -3338.197
0.75000 -14.361785 -588.985653 -19.190420
-504.893600 -63.133312 -2906.529
1.00000 -14.361785 -566.442586 -19.190420
-541.775402 -64.624333 -2523.992

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 17.131482 119.918771 10.434569
690.792306 53.301716 911.554812
0.25000 17.131482 130.343514 10.434569
669.736429 49.867576 941.152867
0.50000 17.131482 142.139018 10.434569
667.592366 54.280025 1014.242
0.75000 17.131482 154.991212 10.434569
667.331904 64.984797 1143.255
1.00000 17.131482 168.571468 10.434569
667.296308 78.196816 1306.782

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.122118 -595.191568 -16.541294
-481.584621 -73.021202 -3940.891
0.25000 -15.122118 -574.221465 -16.541294
-487.441666 -61.566883 -3486.508
0.50000 -15.122118 -553.630869 -16.541294
-495.412403 -59.251803 -3087.999
0.75000 -15.122118 -533.803729 -16.541294
-524.083915 -62.270727 -2722.178
1.00000 -15.122118 -515.023726 -16.541294
-554.809118 -67.809908 -2406.224

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.617004 49.431380 4.628126
314.565255 49.787407 213.376698
0.25000 6.617004 49.436418 4.628126
314.546643 48.836395 195.038575
0.50000 6.617004 49.442105 4.628126
314.528868 48.656404 184.326847
0.75000 6.617004 49.448308 4.628126
314.512295 49.087257 195.727759
1.00000 6.617004 49.454889 4.628126
314.497278 49.962729 218.783297
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
457

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.060530 -60.674409 -1.975373
171.154818 -3.728170 -459.118460
0.25000 -5.060530 -60.665150 -1.975373
-171.374838 -5.129236 -438.052129
0.50000 -5.060530 -60.656093 -1.975373
-171.392635 -7.855374 -425.888511
0.75000 -5.060530 -60.647381 -1.975373
-171.411800 -11.584106 -424.950907
1.00000 -5.060530 -60.639199 -1.975373
-171.432060 -15.953094 -436.579454

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.750272 81.524962 17.554480
550.261711 91.155974 393.080212
0.25000 8.750272 81.529994 17.554480
550.243173 76.807742 356.594615
0.50000 8.750272 81.535674 17.554480
550.225469 69.469098 336.604768
0.75000 8.750272 81.541870 17.554480
550.208963 66.148862 362.005518
1.00000 8.750272 81.548443 17.554480
550.194011 65.632538 416.009059

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.517440 -136.371462 -2.273771
-251.871677 -4.492889 -1130.010
0.25000 -13.517440 -136.362208 -2.273771
-251.887660 -6.909599 -1052.468
0.50000 -13.517440 -136.353154 -2.273771
-251.904407 -18.075621 -993.372867
0.75000 -13.517440 -136.344446 -2.273771
-251.924512 -34.144652 -956.750384
1.00000 -13.517440 -136.336267 -2.273771
-251.944726 -52.519782 -945.718556

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.402002 100.807020 11.871598
665.120495 73.265740 585.575822
0.25000 11.402002 100.861371 11.871598
664.920183 66.203893 537.130253
0.50000 11.402002 100.922734 11.871598
664.728882 64.451150 536.087111
0.75000 11.402002 100.989655 11.871598
664.550530 66.256052 603.071860
1.00000 11.402002 101.060658 11.871598
664.388956 70.116001 713.447600

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.496202 -265.343556 -6.558007
-244.752992 -15.602594 -2207.328
0.25000 -10.496202 -265.243603 -6.558007
-244.925667 -13.468070 -1992.536
0.50000 -10.496202 -265.145819 -6.558007
-245.117402 -17.444797 -1810.993
0.75000 -10.496202 -265.051762 -6.558007
-245.323811 -25.200239 -1668.098
1.00000 -10.496202 -264.963427 -6.558007
-245.542193 -35.431464 -1567.126

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.145048	119.547321	10.139194
746.404095	63.173406	835.466702	
0.25000	19.145048	127.353200	10.139194
722.145652	58.067824	840.025005	
0.50000	19.145048	136.180426	10.139194
699.013385	63.417122	889.099352	
0.75000	19.145048	145.797653	10.139194
677.580477	76.697570	999.659857	
1.00000	19.145048	155.985107	10.139194
675.832175	93.097917	1146.919	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
458

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.115330	-497.600727	-18.984716
-381.916946	-64.733860	-3418.092	
0.25000	-13.115330	-482.661937	-18.984716
-397.472151	-50.173930	-3041.969	
0.50000	-13.115330	-468.017695	-18.984716
-422.515465	-45.316343	-2715.340	
0.75000	-13.115330	-453.914421	-18.984716
-449.573636	-47.300342	-2439.236	
1.00000	-13.115330	-440.616830	-18.984716
-478.009243	-52.667346	-2209.047	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.490734	66.893211	14.663147
600.530891	51.799398	707.659458	
0.25000	17.490734	80.740882	14.663147
575.428569	43.624265	928.794827	
0.50000	17.490734	103.277768	14.663147
554.215641	42.311520	1222.537	
0.75000	17.490734	129.200336	14.663147
554.165840	55.947954	1595.268	
1.00000	17.490734	156.093333	14.663147
554.175855	70.770969	1961.859	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.140057	-665.535836	-16.634626
-630.699872	-72.502956	-2527.514	
0.25000	-13.140057	-635.909808	-16.634626
-630.699872	-64.097557	-2392.410	
0.50000	-13.140057	-606.348192	-16.634626
-630.699872	-62.509479	-2257.420	
0.75000	-13.140057	-577.270191	-16.634626
-630.699872	-63.013994	-2123.032	
1.00000	-13.140057	-550.557578	-16.634626
-630.699872	-71.731600	-1988.903	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.629917	119.918771	17.554480
746.404095	91.155974	1034.484	
0.25000	21.629917	130.343514	17.554480
722.145652	76.807742	1112.980	
0.50000	21.629917	142.753027	17.554480
699.013385	69.469098	1242.552	
0.75000	21.629917	156.437145	17.554480
686.100093	76.697570	1425.901	
1.00000	21.629917	170.853128	17.554480
686.100093	93.097917	1640.180	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.786117	-785.549383	-20.976141
-787.268812	-120.810859	-4953.886	
0.25000	-21.786117	-756.133501	-20.976141
-783.956095	-104.933121	-4295.116	
0.50000	-21.786117	-727.139647	-20.976141
-780.643447	-97.131142	-3711.181	
0.75000	-21.786117	-699.042267	-20.976141
-777.330799	-95.962427	-3197.286	
1.00000	-21.786117	-672.378982	-20.976141
-774.018151	-98.431462	-2751.064	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.629917	119.918771	17.554480
746.404095	91.155974	1034.484	
0.25000	21.629917	130.343514	17.554480
722.145652	76.807742	1112.980	
0.50000	21.629917	142.753027	17.554480
699.013385	69.469098	1242.552	
0.75000	21.629917	156.437145	17.554480
686.100093	76.697570	1595.268	
1.00000	21.629917	170.853128	17.554480
686.100093	93.097917	1961.859	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
459

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.786117	-785.549383	-20.976141
-787.268812	-120.810859	-4953.886	
0.25000	-21.786117	-756.133501	-20.976141
-783.956095	-104.933121	-4295.116	
0.50000	-21.786117	-727.139647	-20.976141
-780.643447	-97.131142	-3711.181	
0.75000	-21.786117	-699.042267	-20.976141
-777.330799	-95.962427	-3197.286	
1.00000	-21.786117	-672.378982	-20.976141
-774.018151	-98.431462	-2751.064	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.629917	119.918771	17.554480
746.404095	91.155974	1034.484	
0.25000	21.629917	130.343514	17.554480
722.145652	76.807742	1112.980	
0.50000	21.629917	142.753027	17.554480
699.013385	69.469098	1242.552	
0.75000	21.629917	156.437145	17.554480
686.100093	76.697570	1595.268	
1.00000	21.629917	170.853128	17.554480
686.100093	93.097917	1961.859	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.786117	-785.549383	-20.976141
-787.268812	-120.810859	-4953.886	
0.25000	-21.786117	-756.133501	-20.976141
-783.956095	-104.933121	-4295.116	
0.50000	-21.786117	-727.139647	-20.976141
-780.643447	-97.131142	-3711.181	
0.75000	-21.786117	-699.042267	-20.976141
-777.330799	-95.962427	-3197.286	
1.00000	-21.786117	-672.378982	-20.976141
-774.018151	-98.431462	-2751.064	

ELEM 12 ========== LENGTH = 4.987437

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.005635	77.539645	0.123497
76.766199	18.917177	1217.587	
0.25000	8.005635	98.267585	0.123497
76.766199	23.671958	1404.930	
0.50000	8.005635	121.014004	0.123497
76.766199	29.347191	1560.988	
0.75000	8.005635	145.365094	0.123497
76.766199	35.935081	1685.043	
1.00000	8.005635	169.905847	0.123497
76.766199	43.562023	1779.764	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.560907	-374.018629	-7.899302
-530.685794	-51.694001	-975.087270	
0.25000	-8.560907	-348.956019	-7.899302
-530.685794	-48.246109	-909.448248	
0.50000	-8.560907	-323.377242	-7.899302
-530.685794	-44.803145	-843.939636	
0.75000	-8.560907	-298.768701	-7.899302
-530.685794	-41.363781	-778.730808	
1.00000	-8.560907	-275.674304	-7.899302
-530.685794	-37.952084	-713.522027	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.202613	110.136166	1.065532
176.587728	64.186817	1877.734	
0.25000	18.202613	136.301929	1.065532
176.587728	67.827854	2141.072	
0.50000	18.202613	164.909756	1.065532
176.587728	72.713407	2383.652	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
460

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	18.202613	195.472812	1.065532
176.587728	78.792126	2611.328	
1.00000	18.202613	227.044436	1.065532
176.587728	86.016978	2820.601	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.597442	-552.702733	-10.238527
-645.811383	-62.979501	-1637.712	
0.25000	-10.597442	-520.525976	-10.238527
-645.811383	-58.653668	-1536.685	
0.50000	-10.597442	-488.521770	-10.238527
-645.811383	-54.331155	-1435.837	
0.75000	-10.597442	-457.704267	-10.238527
-645.811383	-50.011626	-1335.302	
1.00000	-10.597442	-428.719411	-10.238527
-645.811383	-45.701106	-1234.767	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.241245	117.965105	1.924691
320.198781	54.701490	1962.581	
0.25000	15.241245	141.992138	1.924691
320.198781	57.539825	2264.565	
0.50000	15.241245	168.255851	1.924691
320.198781	61.787113	2556.299	
0.75000	15.241245	196.309309	1.924691
320.198781	67.356731	2839.724	
1.00000	15.241245	225.347428	1.924691
320.198781	74.121401	3108.151	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.537799	-579.997274	-9.195735
-561.306287	-56.098239	-1989.473	
0.25000	-10.537799	-550.407310	-9.195735
-561.306287	-51.965457	-1881.750	
0.50000	-10.537799	-521.038493	-9.195735
-561.306287	-47.862846	-1774.249	
0.75000	-10.537799	-492.755991	-9.195735
-561.306287	-44.250782	-1667.102	
1.00000	-10.537799	-466.152732	-9.195735
-561.306287	-40.699246	-1560.019	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.004424	112.223418	4.624736
424.458751	56.950399	1755.952	
0.25000	15.004424	132.255671	4.624736
424.458751	58.037621	2043.805	
0.50000	15.004424	154.152558	4.624736
424.458751	60.384934	2325.517	
0.75000	15.004424	177.541457	4.624736
424.458751	63.911091	2602.805	
1.00000	15.004424	201.753042	4.624736
424.458751	68.477374	2869.877	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.569022	-521.842570	-8.163155
-492.214438	-71.812364	-1952.409	
0.25000	-13.569022	-497.171005	-8.163155
-492.214438	-68.562277	-1862.296	
0.50000	-13.569022	-472.685679	-8.163155
-492.214438	-65.847868	-1772.429	
0.75000	-13.569022	-449.105955	-8.163155
-492.214438	-63.401904	-1682.906	
1.00000	-13.569022	-426.926173	-8.163155
-492.214438	-61.358881	-1593.503	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.507665	25.615979	1.087751
151.858150	41.456359	572.445237	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
461

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	10.507665	25.627743	1.087751
151.817466	40.315198	636.982796	
0.50000	10.507665	25.640505	1.087751
151.782497	39.176211	724.153142	
0.75000	10.507665	25.654017	1.087751
151.755701	38.052846	841.695354	
1.00000	10.507665	25.669409	1.087751
151.733479	36.958652	983.223932	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.701203	-138.932166	-1.315435
-77.073569	-6.386836	-708.393133	
0.25000	-1.701203	-138.916598	-1.315435
-77.106539	-5.982133	-675.418407	
0.50000	-1.701203	-138.902633	-1.315435
-77.141646	-5.580419	-642.443824	
0.75000	-1.701203	-138.889128	-1.315435
-77.178514	-5.181666	-609.468328	
1.00000	-1.701203	-138.876357	-1.315435
-77.221670	-4.791003	-576.495240	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.167095	44.989329	3.278858
346.287945	38.561148	801.756229	
0.25000	9.167095	45.001093	3.278858
346.247261	36.447761	926.212877	
0.50000	9.167095	45.013855	3.278858
346.212292	34.760159	1083.439	
0.75000	9.167095	45.027367	3.278858
346.185496	33.404451	1276.160	
1.00000	9.167095	45.042759	3.278858
346.163274	32.283310	1493.787	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.308820	-211.710296	-1.681333
-66.745259	-22.176412	-1204.113	
0.25000	-6.308820	-211.694729	-1.681333
-66.778228	-21.226538	-1159.561	
0.50000	-6.308820	-211.680763	-1.681333
-66.813335	-20.666211	-1115.161	
0.75000	-6.308820	-211.667258	-1.681333
-66.850203	-20.017447	-1070.840	
1.00000	-6.308820	-211.654487	-1.681333
-66.893359	-19.378700	-1026.580	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.846689	101.181331	3.142069
358.756863	58.772935	1639.419	
0.25000	12.846689	121.492378	3.142069
354.326585	58.510410	1912.873	
0.50000	12.846689	143.582366	3.142069
354.326585	59.289055	2179.363	
0.75000	12.846689	167.078776	3.142069
354.326585	61.428128	2440.808	
1.00000	12.846689	192.568355	3.142069
354.326585	64.620849	2691.140	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.996877	-497.174121	-6.640630
-333.750738	-50.005667	-1835.487	
0.25000	-10.996877	-471.297914	-6.640630
-333.750738	-47.238701	-1747.129	
0.50000	-10.996877	-446.850537	-6.640630
-350.061093	-44.478507	-1659.058	
0.75000	-10.996877	-423.276814	-6.640630
-381.718797	-41.728433	-1571.202	
1.00000	-10.996877	-401.013290	-6.640630
-410.163990	-38.986298	-1483.395	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
462

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.126554	97.924701	6.044052
455.253645	64.058293	1477.089	
0.25000	13.126554	114.842498	6.044052
451.563508	62.407886	1735.673	
0.50000	13.126554	133.242039	6.044052
451.563508	61.617561	1990.407	
0.75000	13.126554	152.813039	6.044052
451.563508	61.941190	2242.977	
1.00000	13.126554	174.042455	6.044052
451.563508	63.127842	2487.656	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.379145	-446.052401	-5.624130
-310.982556	-55.175914	-1789.222	
0.25000	-11.379145	-424.499183	-5.624130
-310.982556	-54.169637	-1718.919	
0.50000	-11.379145	-404.136089	-5.624130
-324.568034	-53.699055	-1648.871	
0.75000	-11.379145	-384.486449	-5.624130
-350.936867	-53.732683	-1579.047	
1.00000	-11.379145	-365.958235	-5.624130
-374.629885	-54.258550	-1509.399	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.976666	20.617674	5.635772
237.163385	29.187237	169.966286	
0.25000	3.976666	20.629444	5.635772
237.122628	26.779777	212.291340	
0.50000	3.976666	20.642211	5.635772
237.087602	24.395608	257.848845	
0.75000	3.976666	20.655730	5.635772
237.060501	22.025945	305.883459	
1.00000	3.976666	20.671131	5.635772
237.038237	19.720040	355.688839	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.376019	-44.645485	-0.138523
-58.452411	-13.908684	-372.100707	
0.25000	-4.376019	-44.629907	-0.138523
-58.485439	-17.260430	-379.552624	
0.50000	-4.376019	-44.615937	-0.138523
-58.520605	-21.001165	-387.268732	
0.75000	-4.376019	-44.602427	-0.138523
-58.557534	-25.643978	-394.991886	
1.00000	-4.376019	-44.589650	-0.138523
-58.600767	-30.661516	-402.994132	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.488103	37.734206	8.702113
420.239101	40.511970	349.260902	
0.25000	6.488103	37.745970	8.702113
420.198416	36.819543	440.764850	
0.50000	6.488103	37.758732	8.702113
420.163447	33.320796	540.166454	
0.75000	6.488103	37.772244	8.702113
420.136651	29.972910	646.479104	
1.00000	6.488103	37.787636	8.702113
420.114429	26.743911	759.088842	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.550691	-101.990506	-1.074737
-78.994567	-50.907423	-773.984631	
0.25000	-11.550691	-101.974938	-1.074737
-79.027537	-53.243416	-775.444439	
0.50000	-11.550691	-101.960973	-1.074737
-79.062644	-56.277013	-777.215185	
0.75000	-11.550691	-101.947469	-1.074737
-79.099512	-59.978306	-779.093421	
1.00000	-11.550691	-101.934697	-1.074737
-79.142668	-64.325152	-781.229909	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
463

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.935366	53.188133	8.180814
518.563437	44.948870	680.285434	
0.25000	7.935366	53.198721	8.180814
518.526822	41.090392	824.979279	
0.50000	7.935366	53.210206	8.180814
518.495349	37.593112	991.204897	
0.75000	7.935366	53.222368	8.180814
518.471233	34.430756	1177.335	
1.00000	7.935366	53.236220	8.180814
518.451233	31.498496	1378.220	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.933869	-188.711145	-0.841451
-71.689277	-31.979247	-1262.460	
0.25000	-8.933869	-188.697133	-0.841451
-71.719950	-34.796854	-1240.637	
0.50000	-8.933869	-188.684565	-0.841451
-71.750546	-38.258789	-1219.154	
0.75000	-8.933869	-188.672411	-0.841451
-71.783727	-42.347091	-1197.798	
1.00000	-8.933869	-188.660917	-0.841451
-71.822568	-47.036765	-1176.719	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.798766	84.957553	7.449750
538.517916	71.286943	1255.064	
0.25000	13.798766	96.907682	7.449750
513.576134	67.656955	1477.174	
0.50000	13.798766	109.882695	7.449750
493.307768	64.915684	1705.245	
0.75000	13.798766	123.651737	7.449750
484.975627	62.793520	1940.925	
1.00000	13.798766	138.969696	7.449750
484.975627	61.489488	2177.345	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.852064	-371.438191	-3.907093
-218.327116	-43.559256	-1649.944	
0.25000	-10.852064	-355.916574	-3.907093
-235.222109	-44.604787	-1596.091	
0.50000	-10.852064	-341.639763	-3.907093
-259.683136	-46.231480	-1542.571	
0.75000	-10.852064	-327.884578	-3.907093
-282.751304	-48.381086	-1489.233	
1.00000	-10.852064	-314.822819	-3.907093
-316.959375	-51.034968	-1436.131	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.257676	85.612745	0.183472
140.462232	18.422719	971.553905	
0.25000	10.257676	99.552804	0.183472
140.462232	22.129109	1095.685	
0.50000	10.257676	115.021943	0.183472
140.462232	27.382523	1213.720	
0.75000	10.257676	131.580019	0.183472
140.462232	34.027368	1322.597	
1.00000	10.257676	148.806382	0.183472
140.462232	41.506087	1442.413	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.687450	-391.667280	-10.608868
-638.111602	-83.425066	-1405.572	
0.25000	-18.687450	-367.406380	-10.608868
-629.504439	-75.163723	-1206.867	
0.50000	-18.687450	-343.486740	-10.608868
-620.897276	-67.823214	-1038.208	
0.75000	-18.687450	-320.392036	-10.608868
-612.290113	-61.195545	-900.309066	
1.00000	-18.687450	-298.599528	-10.608868
-603.682949	-55.214097	-819.382242	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
464

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.771557	131.859428	1.212648
262.617771	67.442717	1511.563	
0.25000	22.771557	149.084560	1.212648
262.617771	71.313497	1679.024	
0.50000	22.771557	168.184304	1.212648
262.617771	76.824044	1862.697	
0.75000	22.771557	188.664452	1.212648
262.617771	83.195544	2065.205	
1.00000	22.771557	210.020909	1.212648
262.617771	92.254100	2316.157	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.198864	-593.038830	-13.408484
-755.444918	-95.299964	-2310.840	
0.25000	-21.198864	-563.537744	-13.408484
-752.132159	-85.669967	-1997.468	
0.50000	-21.198864	-534.517025	-13.408484
-748.819399	-77.133430	-1739.458	
0.75000	-21.198864	-506.565549	-13.408484
-745.506640	-69.507240	-1525.671	
1.00000	-21.198864	-480.187933	-13.408484
-742.193881	-62.635179	-1423.148	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20,131800	144.919979	2.580848
418.137741	59.687426	1640.389	
0.25000	20,131800	160.758966	2.580848
418.137741	61.869878	1838.418	
0.50000	20,131800	178.323093	2.580848
418.137741	66.005317	2066.067	
0.75000	20,131800	197.158940	2.580848
418.137741	71.815016	2325.334	
1.00000	20,131800	216.804173	2.580848
418.137741	78.901400	2661.420	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.343371	-647.485701	-12.164044
-666.420686	-87.223423	-2750.329	
0.25000	-20.343371	-620.398637	-12.164044
-664.024881	-78.621306	-2402.182	
0.50000	-20.343371	-593.758539	-12.164044
-661.629076	-71.415412	-2119.018	
0.75000	-20.343371	-568.104240	-12.164044
-659.233271	-65.136421	-1905.475	
1.00000	-20.343371	-543.899849	-12.164044
-656.837466	-59.686371	-1828.815	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.310000	140.916190	5.855765
541.282365	67.471861	1507.280	
0.25000	19.310000	154.118706	5.855765
541.282365	66.893502	1697.481	
0.50000	19.310000	168.759204	5.855765
541.282365	68.232810	1919.083	
0.75000	19.310000	184.459740	5.855765
541.282365	71.192537	2179.585	
1.00000	19.310000	200.834935	5.855765
541.282365	75.412954	2516.167	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.054703	-591.037934	-10.574238
-599.448934	-96.605081	-2629.095	
0.25000	-23.054703	-568.459634	-10.574238
-597.451922	-90.414081	-2324.918	
0.50000	-23.054703	-546.253900	-10.574238
-595.454909	-85.725910	-2081.823	
0.75000	-23.054703	-524.869875	-10.574238
-593.457897	-82.168409	-1911.739	
1.00000	-23.054703	-504.694415	-10.574238
-591.460884	-79.621318	-1869.668	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.709592	39.099764	1.234399
163.886660	49.363530	487.597034	
0.25000	12.709592	39.105356	1.234399
163.869226	48.377313	527.948715	
0.50000	12.709592	39.111574	1.234399
163.852603	47.830184	599.562956	
0.75000	12.709592	39.118276	1.234399
163.837185	47.460408	706.081924	
1.00000	12.709592	39.125347	1.234399
163.823350	47.225767	860.891469	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.184777	-175.092790	-1.579410
-69.170298	-7.040461	-934.450949	
0.25000	-2.184777	-175.083888	-1.579410
-69.186508	-6.385410	-824.241848	
0.50000	-2.184777	-175.075224	-1.579410
-69.204432	-5.872556	-737.146545	
0.75000	-2.184777	-175.066971	-1.579410
-69.223565	-5.525730	-673.470185	
1.00000	-2.184777	-175.059258	-1.579410
-69.243688	-5.338933	-667.037071	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.379319	66.830733	3.919216
390.104528	44.836915	737.593550	
0.25000	11.379319	66.836326	3.919216
390.087084	42.238700	822.014119	
0.50000	11.379319	66.842544	3.919216
390.070452	40.396806	952.227425	
0.75000	11.379319	66.849248	3.919216
390.055026	38.991689	1134.038	
1.00000	11.379319	66.856320	3.919216
390.041184	37.962532	1395.670	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.270643	-277.029628	-1.928044
-70.275110	-22.166080	-1558.691	
0.25000	-7.270643	-277.020725	-1.928044
-70.291326	-21.676783	-1395.527	
0.50000	-7.270643	-277.012061	-1.928044
-70.309256	-21.947688	-1274.152	
0.75000	-7.270643	-277.003807	-1.928044
-70.328396	-22.534478	-1198.898	
1.00000	-7.270643	-276.996094	-1.928044
-70.348527	-23.395177	-1214.513	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.519056	127.502812	3.824662
469.344738	63.435278	1398.965	
0.25000	17.519056	141.867691	3.824662
442.969429	63.460001	1582.117	
0.50000	17.519056	157.812642	3.824662
436.300304	65.135365	1793.493	
0.75000	17.519056	174.964699	3.824662
436.297498	67.823696	2033.778	
1.00000	17.519056	192.973350	3.824662
436.254248	71.379845	2349.388	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.597790	-565.148339	-8.376939
-387.869461	-63.542855	-2524.051	
0.25000	-15.597790	-541.472868	-8.376939
-396.420879	-58.648438	-2243.797	
0.50000	-15.597790	-518.322808	-8.376939
-420.868322	-54.818263	-2019.950	
0.75000	-15.597790	-496.143951	-8.376939
-457.019837	-51.616761	-1856.695	
1.00000	-15.597790	-475.318367	-8.376939
-492.275881	-48.925145	-1737.533	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.834208	128.241101	7.720639
588.315128	77.697402	1305.671	
0.25000	17.834208	140.208083	7.720639
566.342592	74.449850	1480.423	
0.50000	17.834208	153.491378	7.720639
560.786729	72.905470	1682.876	
0.75000	17.834208	167.780279	7.720639
560.784392	72.544751	1923.119	
1.00000	17.834208	182.782785	7.720639
560.748361	73.212730	2236.021	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.362351	-515.291255	-7.118697
-363.618419	-66.248890	-2406.076	
0.25000	-16.362351	-495.557579	-7.118697
-390.742367	-63.748811	-2167.086	
0.50000	-16.362351	-476.282208	-7.118697
-411.108852	-62.747032	-1978.336	
0.75000	-16.362351	-457.805619	-7.118697
-441.225673	-62.798989	-1857.517	
1.00000	-16.362351	-440.456404	-7.118697
-470.596503	-63.815537	-1784.479	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.825343	35.987118	7.717695
299.477605	49.390275	217.686563	
0.25000	6.825343	35.992713	7.717695
299.460134	43.671992	246.883057	
0.50000	6.825343	35.998934	7.717695
299.443476	38.560980	281.392066	
0.75000	6.825343	36.005640	7.717695
299.428025	34.014782	337.769494	
1.00000	6.825343	36.012714	7.717695
299.414158	29.924859	407.786047	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.374181	-62.737374	-0.165138
-106.666514	-15.215298	-436.205450	
0.25000	-5.374181	-62.728469	-0.165138
-106.682747	-18.335105	-432.221528	
0.50000	-5.374181	-62.719803	-0.165138
-106.700697	-22.326679	-432.815919	
0.75000	-5.374181	-62.711547	-0.165138
-106.719858	-27.125699	-461.046919	
1.00000	-5.374181	-62.703833	-0.165138
-106.740011	-32.604753	-504.213993	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.022220	60.355948	11.307324
525.247112	64.948760	414.160457	
0.25000	9.022220	60.361538	11.307324
525.229715	57.149253	477.898801	
0.50000	9.022220	60.367753	11.307324
525.213126	50.279966	558.719818	
0.75000	9.022220	60.374452	11.307324
525.197741	44.244145	677.662414	
1.00000	9.022220	60.381520	11.307324
525.183938	38.875463	829.936943	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.933694	-140.734553	-0.983569
-141.867114	-51.282868	-945.409678	
0.25000	-13.933694	-140.725654	-0.983569
-141.883301	-54.845337	-909.716482	
0.50000	-13.933694	-140.716993	-0.983569
-141.901199	-59.554275	-891.570611	
0.75000	-13.933694	-140.708742	-0.983569
-141.920314	-65.333326	-917.659405	
1.00000	-13.933694	-140.701032	-0.983569
-141.940398	-72.011326	-981.055777	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.806460	81.477781	10.772665
616.966851	70.087440	711.325049	
0.25000	11.806460	81.538151	10.772665
616.778865	62.272240	812.435858	
0.50000	11.806460	81.605281	10.772665
616.599611	55.691881	949.280044	
0.75000	11.806460	81.677646	10.772665
616.433369	49.916213	1138.911	
1.00000	11.806460	81.753984	10.772665
616.284204	44.755551	1398.475	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.144822	-255.880352	-0.959721
-126.982138	-34.591063	-1567.083	
0.25000	-11.144822	-255.784231	-0.959721
-127.157013	-37.871311	-1451.577	
0.50000	-11.144822	-255.690688	-0.959721
-127.350388	-42.462938	-1371.814	
0.75000	-11.144822	-255.601571	-0.959721
-127.556901	-48.046700	-1354.224	
1.00000	-11.144822	-255.518292	-0.959721
-127.773891	-54.412315	-1418.867	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.772744	118.172681	9.648232
660.753491	92.638329	1145.340	
0.25000	19.772744	126.979481	9.648232
638.356766	87.014057	1296.583	
0.50000	19.772744	136.756949	9.648232
617.000621	82.734850	1478.206	
0.75000	19.772744	147.286395	9.648232
597.300518	79.740181	1705.785	
1.00000	19.772744	158.373515	9.648232
592.422968	77.595323	2006.580	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.185383	-441.620096	-4.835932
-290.283457	-51.504121	-2200.927	
0.25000	-14.185383	-427.455297	-4.835932
-312.931543	-51.747696	-2006.687	
0.50000	-14.185383	-413.572121	-4.835932
-338.065665	-53.367228	-1850.472	
0.75000	-14.185383	-400.317417	-4.835932
-365.058720	-56.057295	-1733.909	
1.00000	-14.185383	-387.902083	-4.835932
-393.186236	-59.601340	-1751.547	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.202613	117.965105	8.702113
538.517916	71.256943	1962.581	
0.25000	18.202613	141.992138	8.702113
518.526822	67.827854	2264.565	
0.50000	18.202613	168.255851	8.702113
518.495349	72.713407	2556.299	
0.75000	18.202613	196.309305	8.702113
518.471233	78.792126	2839.724	
1.00000	18.202613	227.044436	8.702113
518.451233	86.016978	3108.151	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.569022	-579.997274	-10.238527
-645.811383	-71.812364	-1989.473	
0.25000	-13.569022	-550.407310	-10.238527
-645.811383	-68.562277	-1881.750	
0.50000	-13.569022	-521.038493	-10.238527
-645.811383	-65.847868	-1774.249	
0.75000	-13.569022	-492.755991	-10.238527
-645.811383	-63.401904	-1682.906	
1.00000	-13.569022	-466.152732	-10.238527
-645.811383	-64.325152	-1593.503	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.771557	144.919979	11.307324
660.753491	92.638329	1640.389	
0.25000	22.771557	160.758966	11.307324
638.356766	87.014057	1838.418	
0.50000	22.771557	178.323093	11.307324
617.000621	82.734850	2066.067	
0.75000	22.771557	197.158940	11.307324
616.433369	83.959544	2325.334	
1.00000	22.771557	216.804173	11.307324
616.284204	92.254100	2661.420	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.054703	-647.485701	-13.408484
-755.444918	-96.605081	-2750.329	
0.25000	-23.054703	-620.398637	-13.408484
-752.132159	-90.414081	-2402.182	
0.50000	-23.054703	-593.758539	-13.408484
-748.819399	-85.725910	-2119.018	
0.75000	-23.054703	-568.104240	-13.408484
-745.506640	-82.168409	-1911.739	
1.00000	-23.054703	-543.899849	-13.408484
-742.193881	-79.621318	-1869.668	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.771557	144.919979	11.307324
660.753491	92.638329	1962.581	
0.25000	22.771557	160.758966	11.307324
638.356766	87.014057	2264.565	
0.50000	22.771557	178.323093	11.307324
617.000621	82.734850	2556.299	
0.75000	22.771557	197.158940	11.307324
616.433369	83.959544	2839.724	
1.00000	22.771557	227.044436	11.307324
616.284204	92.254100	3108.151	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.054703	-647.485701	-13.408484
-755.444918	-96.605081	-2750.329	
0.25000	-23.054703	-620.398637	-13.408484
-752.132159	-90.414081	-2402.182	
0.50000	-23.054703	-593.758539	-13.408484
-748.819399	-85.725910	-2119.018	
0.75000	-23.054703	-568.104240	-13.408484
-745.506640	-82.168409	-1911.739	
1.00000	-23.054703	-543.899849	-13.408484
-742.193881	-79.621318	-1869.668	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.771557	144.919979	11.307324
660.753491	92.638329	1962.581	
0.25000	22.771557	160.758966	11.307324
638.356766	87.014057	2264.565	
0.50000	22.771557	178.323093	11.307324
617.000621	82.734850	2556.299	
0.75000	22.771557	197.158940	11.307324
616.433369	83.959544	2839.724	
1.00000	22.771557	227.044436	11.307324
616.284204	92.254100	3108.151	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.054703	-647.485701	-13.408484
-755.444918	-96.605081	-2750.329	
0.25000	-23.054703	-620.398637	-13.408484
-752.132159	-90.414081	-2402.182	
0.50000	-23.054703	-593.758539	-13.408484
-748.819399	-85.725910	-2119.018	
0.75000	-23.054703	-568.104240	-13.408484
-745.506640	-82.168409	-1911.739	
1.00000	-23.054703	-543.899849	-13.408484
-742.193881	-79.621318	-1869.668	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 13 ========== LENGTH = 4.987665

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.665148	117.175357	0.327217
53.469260	44.719047	1781.376	
0.25000	8.665148	138.611868	0.327217
53.469260	48.792639	1912.182	
0.50000	8.665148	162.068512	0.327217
53.469260	54.037906	2010.874	
0.75000	8.665148	187.049794	0.327217
53.469260	60.226263	2077.388	
1.00000	8.665148	212.094878	0.327217
53.469260	67.520434	2115.133	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.609213	-331.257398	-7.959947
-453.115944	-38.251937	-713.733999	
0.25000	-8.609213	-305.935633	-7.959947
-453.115944	-34.159711	-667.498501	
0.50000	-8.609213	-280.289732	-7.959947
-453.115944	-30.069211	-621.263047	
0.75000	-8.609213	-255.777150	-7.959947
-453.115944	-25.981339	-575.061936	
1.00000	-8.609213	-232.983256	-7.959947
-453.115944	-21.895031	-528.940469	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.925971	166.184964	4.187557
145.933779	87.274531	2822.182	
0.25000	18.925971	193.203689	4.187557
145.933779	87.263713	2999.891	
0.50000	18.925971	222.690281	4.187557
145.933779	88.649566	3153.634	
0.75000	18.925971	254.058263	4.187557
145.933779	91.887592	3291.183	
1.00000	18.925971	286.307136	4.187557
145.933779	98.173197	3410.874	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.763230	-486.423267	-9.963552
-583.343586	-46.171600	-1235.039	
0.25000	-11.763230	-453.872795	-9.963552
-583.343586	-41.671911	-1158.691	
0.50000	-11.763230	-421.730002	-9.963552
-583.343586	-37.187023	-1082.342	
0.75000	-11.763230	-390.971373	-9.963552
-583.343586	-32.760478	-1006.056	
1.00000	-11.763230	-362.257466	-9.963552
-583.343586	-28.366733	-929.870601	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.967730	166.861732	4.079795
269.415624	76.053470	3109.082	
0.25000	15.967730	191.668866	4.079795
269.415624	76.583209	3318.899	
0.50000	15.967730	218.738262	4.079795
269.415624	78.689036	3513.438	
0.75000	15.967730	247.531568	4.079795
269.415624	82.598339	3697.548	
1.00000	15.967730	277.194697	4.079795
269.415624	89.002999	3866.722	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.587033	-505.843321	-9.136150
-536.732018	-41.300456	-1560.251	
0.25000	-11.587033	-475.906788	-9.136150
-536.732018	-37.682650	-1471.062	
0.50000	-11.587033	-446.407511	-9.136150
-536.732018	-34.098694	-1381.873	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-11.587033	-418.173627	-9.136150
-536.732018	-30.558707	-1292.734	
1.00000	-11.587033	-391.811271	-9.136150
-536.732018	-27.073395	-1203.686	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.690960	153.197960	6.213466
351.631359	69.993932	2869.984	
0.25000	15.690960	173.880520	6.213466
351.631359	69.361427	3075.504	
0.50000	15.690960	196.491100	6.213466
351.631359	70.145921	3269.440	
0.75000	15.690960	220.454858	6.213466
351.631359	72.498839	3455.897	
1.00000	15.690960	245.187630	6.213466
351.631359	76.976167	3630.923	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.401588	-453.331495	-9.627794
-468.257400	-61.740310	-1593.621	
0.25000	-14.401588	-428.370881	-9.627794
-468.257400	-57.324861	-1511.159	
0.50000	-14.401588	-403.776691	-9.627794
-468.257400	-53.397566	-1428.758	
0.75000	-14.401588	-380.237341	-9.627794
-468.257400	-51.023793	-1346.410	
1.00000	-14.401588	-358.258174	-9.627794
-468.257400	-49.551889	-1264.137	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.467989	33.884685	3.742690
137.232719	36.950881	982.953180	
0.25000	10.467989	33.896799	3.742690
137.192744	32.603637	1019.829	
0.50000	10.467989	33.909927	3.742690
137.158636	28.245146	1077.304	
0.75000	10.467989	33.923620	3.742690
137.129293	24.315432	1162.487	
1.00000	10.467989	33.937593	3.742690
137.106999	21.961607	1271.554	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.081784	-115.611567	-1.030679
-121.561313	-4.951067	-576.528393	
0.25000	-2.081784	-115.595745	-1.030679
-121.592496	-4.932168	-545.454041	
0.50000	-2.081784	-115.581639	-1.030679
-121.626284	-4.922621	-514.380054	
0.75000	-2.081784	-115.568026	-1.030679
-121.662154	-4.934477	-483.313139	
1.00000	-2.081784	-115.555182	-1.030679
-121.704545	-4.974942	-452.274389	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.238943	52.848640	4.887517
300.154931	33.141459	1492.834	
0.25000	9.238943	52.860754	4.887517
300.114956	29.112924	1577.487	
0.50000	9.238943	52.873882	4.887517
300.080847	25.597342	1698.583	
0.75000	9.238943	52.887774	4.887517
300.051504	22.798975	1834.428	
1.00000	9.238943	52.903548	4.887517
300.029210	21.635320	2003.315	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.542722	-175.501827	-2.679000
-129.369730	-19.631653	-1026.575	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-6.542722	-175.486004	-2.679000
-129.400913	-18.198746	-977.387263	
0.50000	-6.542722	-175.471899	-2.679000
-129.434701	-16.921186	-928.207697	
0.75000	-6.542722	-175.458286	-2.679000
-129.470571	-17.047644	-879.060456	
1.00000	-6.542722	-175.445441	-2.679000
-129.512962	-17.808605	-829.917095	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.395568	136.696556	5.951034
325.988627	66.195955	2691.054	
0.25000	13.395568	157.611147	5.951034
302.592293	64.073953	2887.822	
0.50000	13.395568	180.357705	5.951034
302.592293	63.408853	3072.005	
0.75000	13.395568	204.493668	5.951034
302.592293	64.527852	3248.187	
1.00000	13.395568	230.571787	5.951034
302.592293	67.532982	3412.269	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.747770	-433.591626	-7.353247
-337.780419	-39.463205	-1483.528	
0.25000	-11.747770	-407.352949	-7.353247
-337.780419	-36.059239	-1403.840	
0.50000	-11.747770	-382.731496	-7.353247
-366.668994	-32.794180	-1324.160	
0.75000	-11.747770	-359.072248	-7.353247
-396.441359	-30.797972	-1244.529	
1.00000	-11.747770	-336.870538	-7.353247
-423.659371	-29.377477	-1164.966	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.668677	127.827168	8.261604
396.821766	64.323223	2486.912	
0.25000	13.668677	145.247679	8.261604
377.334123	61.270082	2677.883	
0.50000	13.668677	164.194101	8.261604
377.334123	59.410737	2859.525	
0.75000	13.668677	184.297807	8.261604
377.334123	59.033894	3035.350	
1.00000	13.668677	206.019205	8.261604
377.334123	60.249982	3201.458	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.185618	-387.814432	-6.915013
-306.477946	-54.527125	-1509.403	
0.25000	-12.185618	-365.959300	-6.915013
-306.477946	-52.553001	-1437.471	
0.50000	-12.185618	-345.451211	-6.915013
-330.540273	-51.277584	-1365.634	
0.75000	-12.185618	-325.744578	-6.915013
-355.338740	-51.559974	-1293.857	
1.00000	-12.185618	-307.251980	-6.915013
-378.009595	-52.788986	-1222.138	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.117473	21.127784	5.531657
190.194248	19.577528	354.665647	
0.25000	4.117473	21.139904	5.531657
190.154199	17.090367	393.265237	
0.50000	4.117473	21.153038	5.531657
190.120034	14.633478	433.056871	
0.75000	4.117473	21.166936	5.531657
190.090412	12.232272	473.996493	
1.00000	4.117473	21.182720	5.531657
190.068075	9.950320	515.817286	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
472

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.629593	-37.691817	-0.288564
-41.699644	-30.500058	-402.805758	
0.25000	-4.629593	-37.675984	-0.288564
-41.730885	-33.031403	-396.246672	
0.50000	-4.629593	-37.661873	-0.288564
-41.764733	-36.242291	-389.750804	
0.75000	-4.629593	-37.648254	-0.288564
-41.800663	-40.141961	-383.411475	
1.00000	-4.629593	-37.635404	-0.288564
-41.843133	-44.828626	-377.093379	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.720992	38.764932	8.402181
340.392664	26.590026	757.342913	
0.25000	6.720992	38.777046	8.402181
340.352689	22.905159	835.753737	
0.50000	6.720992	38.790174	8.402181
340.318580	19.561009	918.537103	
0.75000	6.720992	38.804067	8.402181
340.289237	16.293621	1005.398	
1.00000	6.720992	38.819840	8.402181
340.266943	13.364989	1095.530	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.800321	-84.942847	-3.463515
-62.100312	-64.067786	-780.985727	
0.25000	-11.800321	-84.927024	-3.463515
-62.131495	-63.223663	-761.014653	
0.50000	-11.800321	-84.912919	-3.463515
-62.165283	-63.364836	-741.166964	
0.75000	-11.800321	-84.899306	-3.463515
-62.201152	-66.051644	-721.486408	
1.00000	-11.800321	-84.886462	-3.463515
-62.243544	-71.583937	-701.813062	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.162533	54.319694	8.275673
430.531479	32.154000	1376.323	
0.25000	8.162533	54.330567	8.275673
430.495501	28.075449	1489.962	
0.50000	8.162533	54.342412	8.275673
430.464804	24.475680	1619.462	
0.75000	8.162533	54.354916	8.275673
430.438395	21.254407	1765.049	
1.00000	8.162533	54.369112	8.275673
430.418330	18.440810	1923.202	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.285866	-156.111422	-2.181560
-103.864614	-47.033558	-1176.510	
0.25000	-9.285866	-156.097181	-2.181560
-103.892678	-48.235286	-1134.587	
0.50000	-9.285866	-156.084487	-2.181560
-103.923088	-50.343585	-1092.779	
0.75000	-9.285866	-156.072235	-2.181560
-103.955370	-54.439240	-1051.117	
1.00000	-9.285866	-156.060675	-2.181560
-103.993522	-59.809490	-1009.460	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.960604	106.643887	9.860750
472.018550	62.372337	2176.049	
0.25000	13.960604	118.944874	9.860750
442.776447	57.400420	2342.685	
0.50000	13.960604	132.298668	9.860750
423.043553	53.357831	2509.025	
0.75000	13.960604	146.449000	9.860750
406.435947	50.627390	2679.382	
1.00000	13.960604	162.135117	9.860750
406.435947	49.554912	2848.743	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
473

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.542137	-321.294231	-4.781934
-228.886289	-51.210652	-1436.040	
0.25000	-11.542137	-305.536467	-4.781934
-253.776026	-51.220305	-1373.274	
0.50000	-11.542137	-291.136396	-4.781934
-276.906340	-51.986588	-1310.603	
0.75000	-11.542137	-277.268333	-4.781934
-302.635174	-54.404662	-1248.077	
1.00000	-11.542137	-264.218167	-4.781934
-339.884769	-57.882791	-1185.594	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.120990	112.460026	0.574152
86.757750	41.437758	1444.462	
0.25000	11.120990	128.141400	0.574152
86.757750	46.446979	1619.553	
0.50000	11.120990	145.359658	0.574152
86.757750	52.962253	1761.707	
0.75000	11.120990	163.715806	0.574152
86.757750	60.757832	1869.872	
1.00000	11.120990	182.641827	0.574152
86.757750	69.281512	1945.373	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.510274	-323.302860	-11.143371
-504.852869	-54.528228	-819.652630	
0.25000	-19.510274	-300.311654	-11.143371
-496.245312	-47.334381	-809.169346	
0.50000	-19.510274	-277.763155	-11.143371
-487.636161	-40.887114	-798.072753	
0.75000	-19.510274	-256.081532	-11.143371
-479.030198	-35.008614	-790.026125	
1.00000	-19.510274	-235.767852	-11.143371
-470.422641	-29.515835	-780.134180	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.925795	171.410147	4.717948
186.733078	92.485167	2318.379	
0.25000	23.925795	190.656412	4.717948
186.733078	94.251356	2576.208	
0.50000	23.925795	211.786716	4.717948
186.733078	97.601944	2805.096	
0.75000	23.925795	234.376803	4.717948
186.733078	102.355980	3010.512	
1.00000	23.925795	257.722687	4.717948
186.733078	109.149484	3183.133	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.812126	-489.670813	-13.039575
-624.463449	-62.019863	-1423.699	
0.25000	-22.812126	-461.603667	-13.039575
-621.150538	-54.823246	-1412.216	
0.50000	-22.812126	-434.126790	-13.039575
-617.837627	-48.518057	-1400.765	
0.75000	-22.812126	-407.742342	-13.039575
-614.524716	-42.867327	-1390.572	
1.00000	-22.812126	-383.036961	-13.039575
-611.211805	-37.672472	-1379.370	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.296165	180.584473	5.021127
317.254368	79.693435	2662.702	
0.25000	21.296165	198.268823	5.021127
317.254368	81.503790	2976.101	
0.50000	21.296165	217.688311	5.021127
317.254368	85.083253	3263.346	
0.75000	21.296165	238.453505	5.021127
317.254368	90.264470	3527.873	
1.00000	21.296165	259.919701	5.021127
317.254368	97.298768	3763.082	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
474

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.016971	-534.209204	-12.118016
-571.160790	-59.121355	-1829.287	
0.25000	-22.016971	-508.429139	-12.118016
-568.764875	-52.907920	-1827.671	
0.50000	-22.016971	-483.193408	-12.118016
-566.368961	-47.751643	-1825.844	
0.75000	-22.016971	-458.967776	-12.118016
-563.973046	-43.847245	-1825.209	
1.00000	-22.016971	-436.283847	-12.118016
-561.577131	-40.851920	-1823.551	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.353110	169.823063	7.301381
415.183238	75.887974	2516.446	
0.25000	20.353110	184.563373	7.301381
415.183238	75.729300	2822.107	
0.50000	20.353110	200.750800	7.301381
415.183238	77.349427	3106.417	
0.75000	20.353110	218.059533	7.301381
415.183238	80.475154	3372.403	
1.00000	20.353110	235.952584	7.301381
415.183238	85.308854	3614.281	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.551296	-491.724745	-11.911782
-503.185462	-78.763020	-1869.893	
0.25000	-24.551296	-470.235888	-11.911782
-501.188358	-73.002980	-1882.332	
0.50000	-24.551296	-449.200758	-11.911782
-499.191254	-68.654188	-1894.574	
0.75000	-24.551296	-429.007592	-11.911782
-497.194150	-66.112224	-1907.818	
1.00000	-24.551296	-410.099506	-11.911782
-495.197046	-64.802724	-1920.211	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.904039	47.127597	4.333689
142.664105	47.748120	860.649136	
0.25000	12.904039	47.133622	4.333689
142.646927	43.557288	942.679284	
0.50000	12.904039	47.140300	4.333689
142.630388	39.444081	1037.019	
0.75000	12.904039	47.147511	4.333689
142.614889	35.399091	1147.899	
1.00000	12.904039	47.155050	4.333689
142.600927	32.194654	1264.243	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.665188	-141.426541	-1.066318
-100.176813	-5.634307	-667.158580	
0.25000	-2.665188	-141.417917	-1.066318
-100.192635	-5.983081	-669.717074	
0.50000	-2.665188	-141.409540	-1.066318
-100.210276	-6.410910	-672.092923	
0.75000	-2.665188	-141.401548	-1.066318
-100.229266	-6.906831	-674.420634	
1.00000	-2.665188	-141.394119	-1.066318
-100.249317	-7.487232	-676.833604	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.696968	74.850459	5.444463
324.093529	38.916162	1394.480	
0.25000	11.696968	74.856486	5.444463
324.076343	35.199038	1553.940	
0.50000	11.696968	74.863164	5.444463
324.059795	31.997449	1725.594	
0.75000	11.696968	74.870375	5.444463
324.044289	29.389022	1913.767	
1.00000	11.696968	74.877915	5.444463
324.030318	27.862133	2109.380	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
475

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.898083	-227.656187	-2.681382
-109.904607	-23.531255	-1214.562	
0.25000	-7.898083	-227.647563	-2.681382
-109.920435	-23.108072	-1229.291	
0.50000	-7.898083	-227.639184	-2.681382
-109.938082	-23.087706	-1243.815	
0.75000	-7.898083	-227.631192	-2.681382
-109.957079	-24.177907	-1258.319	
1.00000	-7.898083	-227.623762	-2.681382
-109.977139	-25.903963	-1272.719	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.222981	153.653390	6.304326
388.836596	72.298343	2349.559	
0.25000	18.222981	169.399641	6.304326
362.307280	71.499273	2642.927	
0.50000	18.222981	186.766796	6.304326
341.403663	71.858724	2912.863	
0.75000	18.222981	205.432284	6.304326
341.188149	73.436657	3160.869	
1.00000	18.222981	224.861503	6.304326
341.148372	76.313013	3381.698	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.918533	-471.294700	-8.573469
-346.898576	-48.681570	-1737.854	
0.25000	-16.918533	-448.556228	-8.573469
-354.540232	-45.047860	-1744.459	
0.50000	-16.918533	-426.402929	-8.573469
-386.810179	-42.120058	-1750.811	
0.75000	-16.918533	-405.193917	-8.573469
-422.435182	-40.576987	-1757.864	
1.00000	-16.918533	-385.409106	-8.573469
-457.383339	-39.807092	-1764.098	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.534387	147.765585	9.330636
479.034375	73.717889	2235.345	
0.25000	18.534387	160.883348	9.330636
456.933540	70.719278	2520.775	
0.50000	18.534387	175.351442	9.330636
439.518817	69.059790	2786.936	
0.75000	18.534387	190.901141	9.330636
439.339279	68.630044	3035.195	
1.00000	18.534387	207.087083	9.330636
439.306642	69.424378	3261.036	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.678255	-433.431864	-7.801473
-325.771024	-63.147539	-1784.507	
0.25000	-17.678255	-414.489076	-7.801473
-332.137074	-61.662125	-1806.924	
0.50000	-17.678255	-396.033779	-7.801473
-359.020270	-61.430995	-1829.176	
0.75000	-17.678255	-378.365141	-7.801473
-388.698469	-62.706828	-1852.013	
1.00000	-17.678255	-361.882965	-7.801473
-417.812806	-65.012101	-1874.150	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.007473	30.335625	7.531532
237.181133	29.574075	406.547245	
0.25000	7.007473	30.341653	7.531532
237.163921	24.817467	465.090979	
0.50000	7.007473	30.349334	7.531532
237.147347	20.624417	523.815908	
0.75000	7.007473	30.355547	7.531532
237.131818	16.924532	582.978016	
1.00000	7.007473	30.363090	7.531532
237.117823	13.583695	642.334374	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
476

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.685243	-57.087543	-0.418650
-64.996890	-31.957850	-503.754646	
0.25000	-5.685243	-57.078917	-0.418650
-65.012736	-35.409098	-531.618274	
0.50000	-5.685243	-57.070536	-0.418650
-65.030403	-39.704554	-559.444886	
0.75000	-5.685243	-57.062542	-0.418650
-65.049422	-44.770425	-587.400268	
1.00000	-5.685243	-57.055110	-0.418650
-65.069505	-50.473327	-615.355251	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.273355	54.885098	10.424593
414.183515	38.444312	827.797122	
0.25000	9.273355	54.891121	10.424593
414.166375	32.284652	947.169056	
0.50000	9.273355	54.897796	10.424593
414.149870	26.933043	1067.409	
0.75000	9.273355	54.905044	10.424593
414.134403	22.325589	1189.932	
1.00000	9.273355	54.912539	10.424593
414.120471	18.312361	1313.883	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.373125	-125.329737	-3.481400
-88.427437	-71.008027	-979.522127	
0.25000	-14.373125	-125.321117	-3.481400
-88.443234	-72.045614	-1018.120	
0.50000	-14.373125	-125.312742	-3.481400
-88.460849	-74.236313	-1056.744	
0.75000	-14.373125	-125.304753	-3.481400
-88.479810	-78.365898	-1095.454	
1.00000	-14.373125	-125.297327	-3.481400
-88.499830	-84.076221	-1130.235	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.174649	78.695545	10.578225
498.213684	45.259563	1396.088	
0.25000	12.174649	78.760601	10.578225
498.028478	38.830778	1581.957	
0.50000	12.174649	78.832701	10.578225
497.850132	33.257373	1773.488	
0.75000	12.174649	78.910547	10.578225
497.683008	28.463728	1970.749	
1.00000	12.174649	78.991940	10.578225
497.532460	24.462116	2169.994	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.832668	-216.557943	-2.317718
-116.620047	-53.909633	-1418.431	
0.25000	-11.832668	-216.464632	-2.317718
-116.790721	-56.628732	-1460.373	
0.50000	-11.832668	-216.374174	-2.317718
-116.981028	-60.404479	-1502.124	
0.75000	-11.832668	-216.287888	-2.317718
-117.185883	-65.839755	-1543.983	
1.00000	-11.832668	-216.207676	-2.317718
-117.402187	-72.535690	-1585.785	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.377389	129.951342	11.682767
546.330979	78.085092	2005.185	
0.25000	20.377389	139.505743	11.682767
524.115051	71.907597	2262.262	
0.50000	20.377389	150.072437	11.682767
502.706149	67.051110	2508.083	
0.75000	20.377389	161.457310	11.682767
482.778484	63.134217	2744.573	
1.00000	20.377389	173.351136	11.682767
472.386465	60.662091	2965.964	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
477

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.318089	-373.207430	-5.339284
-258.861495	-59.006219	-1751.505	
0.25000	-15.318089	-359.470408	-5.339284
-280.788061	-59.969519	-1775.485	
0.50000	-15.318089	-346.115851	-5.339284
-305.242170	-62.064379	-1799.462	
0.75000	-15.318089	-333.353007	-5.339284
-331.725631	-65.727053	-1823.780	
1.00000	-15.318089	-321.469891	-5.339284
-359.463596	-70.647538	-1847.659	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.925971	166.861732	9.860750
472.018550	87.274531	3109.082	
0.25000	18.925971	193.203689	9.860750
442.776447	87.263713	3318.899	
0.50000	18.925971	222.690281	9.860750
430.464804	88.649566	3513.438	
0.75000	18.925971	254.058263	9.860750
430.438395	91.857592	3697.548	
1.00000	18.925971	286.307136	9.860750
430.418330	98.173197	3866.722	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.401588	-505.843321	-9.963552
-583.343586	-64.067786	-1593.621	
0.25000	-14.401588	-475.906788	-9.963552
-583.343586	-63.223663	-1511.159	
0.50000	-14.401588	-446.407511	-9.963552
-583.343586	-63.364836	-1428.758	
0.75000	-14.401588	-418.173620	-9.963552
-583.343586	-66.051644	-1346.410	
1.00000	-14.401588	-391.811271	-9.963552
-583.343586	-71.583937	-1264.137	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.925795	180.584473	11.682767
546.330979	92.485167	2662.702	
0.25000	23.925795	198.268823	11.682767
524.115051	94.251356	2976.101	
0.50000	23.925795	217.688311	11.682767
502.706149	97.601944	3263.346	
0.75000	23.925795	238.453505	11.682767
497.683008	102.355980	3527.873	
1.00000	23.925795	259.919701	11.682767
497.532460	109.149484	3763.082	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.551296	-534.209204	-13.039575
-624.463449	-78.763020	-1869.893	
0.25000	-24.551296	-508.429139	-13.039575
-621.150538	-73.002980	-1882.332	
0.50000	-24.551296	-483.193408	-13.039575
-617.837627	-74.236313	-1894.574	
0.75000	-24.551296	-458.967776	-13.039575
-614.524716	-78.365898	-1907.818	
1.00000	-24.551296	-436.283847	-13.039575
-611.211805	-84.076221	-1920.211	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.925795	180.584473	11.682767
546.330979	92.485167	3109.082	
0.25000	23.925795	198.268823	11.682767
524.115051	94.251356	3318.899	
0.50000	23.925795	222.690281	11.682767
502.706149	97.601944	3513.438	
0.75000	23.925795	254.058263	11.682767
497.683008	102.355980	3697.548	
1.00000	23.925795	286.307136	11.682767
497.532460	109.149484	3866.722	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
478

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.551296	-534.209204	-13.039575
-624.463449	-78.763020	-1869.893	
0.25000	-24.551296	-508.429139	-13.039575
-621.150538	-73.002980	-1882.332	
0.50000	-24.551296	-483.193408	-13.039575
-617.837627	-74.236313	-1894.574	
0.75000	-24.551296	-458.967776	-13.039575
-614.524716	-78.365898	-1907.818	
1.00000	-24.551296	-436.283847	-13.039575
-611.211805	-84.076221	-1920.211	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.925795	180.584473	11.682767
546.330979	92.485167	3109.082	
0.25000	23.925795	198.268823	11.682767
524.115051	94.251356	3318.899	

```
 0.50000    23.925795   222.690281    11.682767
502.706149    97.601944    3513.438
 0.75000    23.925795   254.058263    11.682767
497.683008   102.355980    3697.548
 1.00000    23.925795   286.307136    11.682767
497.532460   109.149484    3866.722

 COMB  DESIGN  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -24.551296 -534.209204  -13.039575
-624.463449   -78.763020   -1869.893
 0.25000  -24.551296 -508.429139  -13.039575
-621.150538   -73.002980   -1882.332
 0.50000  -24.551296 -483.193408  -13.039575
-617.837627   -74.236313   -1894.574
 0.75000  -24.551296 -458.967776  -13.039575
-614.524716   -78.365898   -1907.818
 1.00000  -24.551296 -436.283847  -13.039575
-611.211805   -84.076221   -1920.211

 ELEM       14 ================== LENGTH
=     4.988150

 COMB DB-G1-1  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.318659   145.671826    2.265962
110.850953    68.653319    2116.204
 0.25000    9.318659   167.537959    2.265962
110.850953    69.945538    2206.394
 0.50000    9.318659   191.465163    2.265962
110.850953    72.240246    2263.688
 0.75000    9.318659   216.899082    2.265962
110.850953    75.691224    2287.839
 1.00000    9.318659   242.359582    2.265962
110.850953    80.194956    2282.016

 COMB DB-G1-1  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.369508 -300.749544   -6.171504
-342.506179  -22.083136  -528.924907
 0.25000   -9.369508 -275.077829   -6.171504
-342.506179  -19.255901  -492.380139
 0.50000   -9.369508 -249.128698   -6.171504
-342.506179  -16.434773  -455.835379
 0.75000   -9.369508 -224.453383   -6.171504
-342.506179  -13.619652  -419.290638
 1.00000   -9.369508 -201.628509   -6.171504
-342.506179  -10.814861  -382.745897

 COMB DB-G1-2  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   19.643341   212.897963    5.142021
188.470665    99.761657    3411.967
 0.25000   19.643341   240.495986    5.142021
188.470665   100.056611    3518.891
 0.50000   19.643341   270.566026    5.142021
188.470665   102.096124    3600.127
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    479

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.75000   19.643341   302.481001    5.142021
188.470665   105.762471    3663.971
 1.00000   19.643341   335.248622    5.142021
188.470665   110.919822    3706.532

 COMB DB-G1-2  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -12.888042 -434.619320   -7.970561
-464.996746  -28.623261  -929.842803
 0.25000  -12.888042 -401.608439   -7.970561
-464.996746  -25.455852  -867.169328
 0.50000  -12.888042 -369.085819   -7.970561
-464.996746  -22.318893  -804.495860
 0.75000  -12.888042 -338.116648   -7.970561
-464.996746  -19.215272  -741.822411
 1.00000  -12.888042 -309.386638   -7.970561
-464.996746  -16.163567  -679.148962

 COMB DB-G1-3  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   16.646628   206.104723    5.069755
281.319551    90.856635    3867.384
 0.25000   16.646628   231.445764    5.069755
281.319551    90.718004    3986.654
 0.50000   16.646628   259.051071    5.069755
281.319551    92.192642    4067.772
 0.75000   16.646628   288.345091    5.069755
281.319551    95.237239    4176.335
 1.00000   16.646628   318.484010    5.069755
281.319551    99.673508    4250.434

 COMB DB-G1-3  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -12.619154 -442.351167   -7.659067
-472.283811   -27.368814   -1203.674
 0.25000  -12.619154 -411.990402   -7.659067
-472.283811   -24.732640   -1126.087
 0.50000  -12.619154 -382.141679   -7.659067
-472.283811   -22.112863   -1048.499
 0.75000  -12.619154 -353.714952   -7.659067
-472.283811   -19.516174   -970.912222
 1.00000  -12.619154 -327.339595   -7.659067
-472.283811   -16.949786   -893.325041

 COMB DB-G1-4  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   16.358385   185.831732    6.599333
318.726049    78.435013    3631.072
 0.25000   16.358385   206.359488    6.599333
318.726049    77.666701    3746.558
 0.50000   16.358385   229.974881    6.599333
318.726049    78.260945    3847.875
 0.75000   16.358385   254.398058    6.599333
318.726049    80.453157    3939.544
 1.00000   16.358385   279.527497    6.599333
318.726049    84.179052    4020.005

 COMB DB-G1-4  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -15.233709 -390.178426   -8.205321
-412.932600   -49.790153   -1264.140
 0.25000  -15.233709 -364.864071   -8.205321
-412.932600   -47.005643   -1187.149
 0.50000  -15.233709 -339.978514   -8.205321
-412.932600   -44.854944   -1110.158
 0.75000  -15.233709 -316.278397   -8.205321
-412.932600   -43.460036   -1033.195
 1.00000  -15.233709 -294.288644   -8.205321
-412.932600   -42.675134   -956.233299

 COMB DB-G2-1  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.426897   47.970078    2.550647
139.001843   22.246405    1271.428
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    480

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.25000   10.426897   47.982502    2.550647
138.961067   20.777354    1273.331
 0.50000   10.426897   47.995896    2.550647
138.927206   20.123558    1296.690
 0.75000   10.426897   48.009996    2.550647
138.894822   19.842352    1346.788
 1.00000   10.426897   48.025991    2.550647
138.866131   19.822404    1417.839

 COMB DB-G2-1  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -2.414544  -92.657466   -1.008402
-143.919564   -5.030237  -452.268374
 0.25000   -2.414544  -92.641400   -1.008402
-143.950179   -4.931173  -423.856010
 0.50000   -2.414544  -92.627107   -1.008402
-143.983380   -4.856575  -395.443730
 0.75000   -2.414544  -92.613411   -1.008402
-144.018579   -4.827910  -367.031661
 1.00000   -2.414544  -92.600603   -1.008402
-144.060428   -4.836415  -338.619593

 COMB DB-G2-2  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.273600   62.722455    3.841683
262.816291   22.276408    2002.768
 0.25000    9.273600   62.734879    3.841683
262.775515   20.686613    2027.388
 0.50000    9.273600   62.748274    3.841683
262.741654   19.626475    2077.369
 0.75000    9.273600   62.762374    3.841683
262.709271   19.160759    2158.543
 1.00000    9.273600   62.778369    3.841683
262.680579   19.053637    2265.191

 COMB DB-G2-2  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.785258 -135.985549   -2.550201
-182.187881   -17.883838  -829.931945
 0.25000   -6.785258 -135.969434   -2.550201
-182.218497   -17.370037  -780.946100
 0.50000   -6.785258 -135.955190   -2.550201
-182.251697   -17.218201  -731.960263
 0.75000   -6.785258 -135.941494   -2.550201
-182.286896   -17.541191  -682.974445
 1.00000   -6.785258 -135.928687   -2.550201
-182.328745   -18.246518  -633.988627

 COMB DB-G2-3  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   13.905267   167.340735    5.434000
331.566629    68.937659    3412.244
 0.25000   13.905267   188.746378    5.434000
304.427074   67.827733    3523.391
 0.50000   13.905267   211.949155    5.434000
274.086084   67.923510    3619.307
 0.75000   13.905267   236.476273    5.434000
265.029508   69.535127    3704.171
 1.00000   13.905267   262.946382    5.434000
265.029508   72.089515    3778.764

 COMB DB-G2-3  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -12.495743 -374.503193   -6.272035
-313.438135   -29.580617   -1164.965
 0.25000  -12.495743 -347.877136   -6.272035
-315.707618   -27.620273   -1092.318
 0.50000  -12.495743 -322.946425   -6.272035
-347.078873   -25.986873   -1019.671
 0.75000  -12.495743 -299.733995   -6.272035
-376.251519   -24.784482   -947.023633
 1.00000  -12.495743 -276.957249   -6.272035
-402.873253   -23.925073   -874.376542
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    481

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   14.203142   152.985138    7.154793
355.140719   61.439468    3201.026
 0.25000   14.203142   170.514663    7.154793
332.535214   59.690390    3308.415
 0.50000   14.203142   190.141086    7.154793
307.263118   58.967758    3403.823
 0.75000   14.203142   210.570599    7.154793
299.719572   59.565093    3491.339
 1.00000   14.203142   232.618500    7.154793
299.719572   61.120052    3569.707

 COMB DB-G2-4  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -12.996979 -329.483154   -6.540145
-285.225898   -53.001555   -1222.142
 0.25000  -12.996979 -307.305359   -6.540145
-287.116231   -51.555482   -1150.745
 0.50000  -12.996979 -286.539678   -6.540145
-313.246471   -50.873362   -1079.349
 0.75000  -12.996979 -266.705454   -6.540145
-337.054511   -50.317825   -1007.984
 1.00000  -12.996979 -248.233650   -6.540145
-359.719605   -52.018048   -936.641330

 COMB DB-G3-1  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.301149   20.677076    4.280599
118.103180    9.980351   515.176080
 0.25000    4.301149   20.689506    4.280599
118.062283    8.286113   536.655158
 0.50000    4.301149   20.702906    4.280599
118.028364    6.624296   558.865194
 0.75000    4.301149   20.717012    4.280599
117.995923    5.014487   581.954543
 1.00000    4.301149   20.733017    4.280599
117.967000    3.479104   605.663255

 COMB DB-G3-1  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.895080  -24.792285   -1.515065
-39.420256   -44.923301  -377.094271
 0.25000   -4.895080  -24.776209   -1.515065
-39.450932   -45.821466  -361.597943
 0.50000   -4.895080  -24.761909   -1.515065
-39.484193   -47.423852  -346.101615
 0.75000   -4.895080  -24.748207   -1.515065
-39.519452   -49.745068  -330.622300
 1.00000   -4.895080  -24.735394   -1.515065
-39.561380   -52.724411  -315.216801

 COMB DB-G3-2  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.010310   38.497650    6.820695
225.711426   13.242867    1094.463
 0.25000    7.010310   38.510074    6.820695
225.670650   10.862589    1135.445
 0.50000    7.010310   38.523468    6.820695
225.636789    8.654636    1179.824
 0.75000    7.010310   38.537568    6.820695
225.604406    6.790458    1227.578
 1.00000    7.010310   38.553563    6.820695
225.575714    5.110262    1278.493

 COMB DB-G3-2  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -12.078299  -58.351696   -3.917084
-66.910624   -71.609308  -701.832694
 0.25000  -12.078299  -58.335631   -3.917084
-66.941240   -71.288152  -669.580846
 0.50000  -12.078299  -58.321337   -3.917084
-66.974440   -72.532333  -637.329724
 0.75000  -12.078299  -58.307641   -3.917084
-67.009639   -75.410771  -605.107550
 1.00000  -12.078299  -58.294834   -3.917084
-67.051488   -79.623717  -572.957146
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    482

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    8.394800   56.305014    6.623328
317.993161   18.908973    1922.019
 0.25000    8.394800   56.316196    6.623328
317.956862   16.208467    1972.916
 0.50000    8.394800   56.326251    6.623328
317.925987   13.870780    2038.176
 0.75000    8.394800   56.340941    6.623328
317.896842   11.980442    2117.768
 1.00000    8.394800   56.355336    6.623328
317.871020   10.402698    2211.429

 COMB DB-G3-3  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.664350 -113.847833   -3.369222
-149.461233   -59.949913   -1009.481
 0.25000   -9.664350 -113.833374   -3.369222
-149.488787   -60.365102   -957.483713
 0.50000   -9.664350 -113.820510   -3.369222
-149.518668   -61.831790   -905.486317
 0.75000   -9.664350 -113.808183   -3.369222
-149.550347   -64.473322   -853.516262
 1.00000   -9.664350 -113.796656   -3.369222
-149.588011   -68.136823   -801.610529

 COMB DB-G3-4  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   14.125892   125.984818    7.809549
408.060959   50.494557    2847.944
 0.25000   14.125892   138.587970    7.809549
373.155602   47.957503    2936.635
 0.50000   14.125892   152.211524    7.809549
345.895212   46.196433    3022.549
 0.75000   14.125892   166.581781    7.809549
326.028654   45.644630    3110.527
 1.00000   14.125892   182.495499    7.809549
315.280736   45.520433    3198.048

 COMB DB-G3-4  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -12.242914  -267.128137   -5.283313
-235.383283   -58.084798   -1185.598
 0.25000  -12.242914  -251.132868   -5.283313
-260.062554   -57.684594   -1119.156
 0.50000  -12.242914  -236.546117   -5.283313
-282.989042   -58.163962   -1052.714
 0.75000  -12.242914  -222.591027   -5.283313
-311.219179   -59.629647   -986.295250
 1.00000  -12.242914  -209.567260   -5.283313
-347.972182   -61.957479   -919.929690

 COMB DL-G1-1  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   11.972609   135.938632    2.243328
131.007813    70.777827    1946.611
 0.25000   11.972609   152.911604    2.243328
132.500016    73.977896    2061.589
 0.50000   11.972609   171.498660    2.243328
133.030148    77.845332    2144.272
 0.75000   11.972609   191.137835    2.243328
133.030159    82.489584    2192.941
 1.00000   11.972609   211.297315    2.243328
133.030159    87.804486    2208.481

 COMB DL-G1-1  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -20.504036  -278.402950   -7.936238
-369.255015   -30.502461  -780.273766
 0.25000  -20.504036  -256.325052   -7.936238
-362.138823   -29.247871  -749.660757
 0.50000  -20.504036  -234.614957   -7.936238
-354.060561   -24.214360  -783.998333
 0.75000  -20.504036  -213.864844   -7.936238
-345.452210   -21.096171  -785.936224
 1.00000  -20.504036  -194.561375   -7.936238
-336.843816   -17.989236  -787.730537
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    483

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   25.027274   211.162326    5.428644
226.415465   111.592526    3184.489
 0.25000   25.027274   231.943183    5.428644
226.431994   113.799906    3340.185
 0.50000   25.027274   254.708033    5.428644
226.431994   116.807598    3467.024
 0.75000   25.027274   278.798381    5.428644
226.431994   120.765287    3569.929
 1.00000   25.027274   303.584347    5.428644
226.431994   125.551698    3641.415

 COMB DL-G1-2  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -24.278172  -415.886060   -9.766751
-483.780571   -39.275390   -1379.574
 0.25000  -24.278172  -388.850320   -9.766751
-480.484052   -36.225130   -1384.709
 0.50000  -24.278172  -362.340875   -9.766751
-477.170819   -33.237552   -1390.361
 0.75000  -24.278172  -337.030075   -9.766751
-473.857586   -30.327229   -1395.701
 1.00000  -24.278172  -313.525064   -9.766751
-470.544353   -27.519745   -1400.968

 COMB DL-G1-3  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   22.354116   221.531742    5.499270
314.711018    99.781514    3763.883
 0.25000   22.354116   240.622949    5.499270
314.710969   101.814711    3949.413
 0.50000   22.354116   261.539737    5.499270
314.710969   104.713703    4109.122
 0.75000   22.354116   283.677647    5.499270
314.710969   108.603253    4245.406
 1.00000   22.354116   306.460272    5.499270
314.710969   113.357020    4354.034

 COMB DL-G1-3  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -23.499275  -444.879188   -9.379024
-477.316341   -42.033950   -1823.752
 0.25000  -23.499275  -420.038697   -9.379024
-474.920300   -39.267046   -1835.889
 0.50000  -23.499275  -395.687740   -9.379024
-472.524152   -36.890784   -1848.369
 0.75000  -23.499275  -372.442023   -9.379024
-470.128004   -35.038800   -1860.620
 1.00000  -23.499275  -350.858609   -9.379024
-467.731856   -33.632361   -1872.807

 COMB DL-G1-4  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   21.333059   204.213976    7.056976
357.546221   87.280699    3614.468
 0.25000   21.333059   220.127366    7.056976
357.546180   88.163109    3795.666
 0.50000   21.333059   237.562460    7.056976
357.546180   89.937472    3955.370
 0.75000   21.333059   256.051415    7.056976
357.546180   92.718943    4095.665
 1.00000   21.333059   275.005769    7.056976
357.546180   96.386124    4213.358

 COMB DL-G1-4  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -25.891850  -405.243394   -9.629966
-422.296823   -65.570038   -1920.317
 0.25000  -25.891850  -384.537402   -9.629966
-420.299613   -63.014062   -1939.364
 0.50000  -25.891850  -364.239772   -9.629966
-418.302315   -61.137665   -1958.696
 0.75000  -25.891850  -344.863409   -9.629966
-416.305017   -60.104662   -1977.834
 1.00000  -25.891850  -326.872653   -9.629966
-414.307719   -59.749585   -1996.922
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    484

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   13.050759   62.862137    3.002812
137.976436   32.935608    1264.138
 0.25000   13.050759   62.868584    3.002812
137.958571   31.129625    1299.553
 0.50000   13.050759   62.875683    3.002812
137.941451   29.779727    1346.667
 0.75000   13.050759   62.883280    3.002812
137.925558   28.613166    1410.573
 1.00000   13.050759   62.891162    3.002812
137.911332   27.669647    1482.627

 COMB DL-G2-1  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.071313 -111.148653   -1.092277
-125.684262   -7.915024  -676.890783
 0.25000   -3.071313 -111.140204   -1.092277
-125.699832   -8.180208  -682.287456
 0.50000   -3.071313 -111.132028   -1.092277
-125.717064   -8.509795  -687.817629
 0.75000   -3.071313 -111.124087   -1.092277
-125.735499   -8.917402  -693.220477
 1.00000   -3.071313 -111.117167   -1.092277
-125.754788   -9.458720  -698.625934

 COMB DL-G2-2  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   11.926541   93.085457    4.101456
264.088664   28.720686    2108.709
 0.25000   11.926541   93.091904    4.101456
264.070791   27.227029    2188.328
 0.50000   11.926541   93.099044    4.101456
264.053663   26.150528    2279.702
 0.75000   11.926541   93.106602    4.101456
264.037761   25.491081    2386.409
 1.00000   11.926541   93.114485    4.101456
264.023528   25.167774    2503.383

 COMB DL-G2-2  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -8.414730 -175.209083   -2.700338
-160.541944   -26.002003   -1272.770
 0.25000   -8.414730 -175.200633   -2.700338
-160.557522   -25.393557   -1222.476
 0.50000   -8.414730 -175.192457   -2.700338
-160.574760   -26.133523   -1302.105
 0.75000   -8.414730 -175.184717   -2.700338
-160.593203   -26.871210   -1316.740
 1.00000   -8.414730 -175.177594   -2.700338
-160.612500   -28.066144   -1331.365

 COMB DL-G2-3  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   18.851496   187.663044    5.741549
357.822388   78.572693    3381.826
 0.25000   18.851496   204.572564    5.741549
328.888157   78.965835    3557.266
 0.50000   18.851496   223.166170    5.741549
300.897949   79.991938    3709.022
 0.75000   18.851496   242.931047    5.741549
279.880671   81.662420    3838.177
 1.00000   18.851496   263.345679    5.741549
279.692320   83.813263    3942.089

 COMB DL-G2-3  ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -18.098228  -389.764074   -7.085099
-302.310996   -40.960010   -1764.238
 0.25000  -18.098228  -367.676422   -7.085099
-310.089776   -39.597780   -1779.143
 0.50000  -18.098228  -346.162683   -7.085099
-341.223767   -38.544191   -1794.296
 0.75000  -18.098228  -325.714020   -7.085099
-374.769503   -37.955212   -1809.213
 1.00000  -18.098228  -306.821262   -7.085099
-408.978722   -37.736505   -1824.104
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    485

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4  ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   19.182117   175.845099    7.792330
394.446315   71.248145    3260.637
 0.25000   19.182117   189.931950    7.792330
370.343678   70.471241    3432.007
```

```
 0.50000    19.182117   205.421766     7.792330
347.025814    70.347285    3583.624
 0.75000    19.182117   221.887335     7.792330
329.516905    70.856762    3716.589
 1.00000    19.182117   238.894197     7.792330
329.359994    71.876728    3828.708

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -18.872304  -355.849374    -7.084424
-281.039197   -65.696316   -1874.169
 0.25000   -18.872304  -337.448766    -7.084424
-287.519481   -65.471873   -1897.081
 0.50000   -18.872304  -319.526269    -7.084424
-313.456344   -65.833752   -1920.170
 0.75000   -18.872304  -302.491056    -7.084424
-341.402363   -66.944318   -1943.091
 1.00000   -18.872304  -286.752025    -7.084424
-369.901111   -68.426915   -1965.974

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.217080    29.699067     5.381602
147.186956    13.534503    641.563858
 0.25000    7.217080    29.705517     5.381602
147.169056    11.195915    678.072868
 0.50000    7.217080    29.712618     5.381602
147.151904     9.041420    714.597286
 0.75000    7.217080    29.720218     5.381602
147.135979     6.948446    751.519826
 1.00000    7.217080    29.728104     5.381602
147.121724     4.900065    788.524411

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.011320   -44.711200    -1.479529
-48.645211   -50.187046   -615.179095
 0.25000   -6.011320   -44.702748    -1.479529
-48.660809   -52.333693   -631.908223
 0.50000   -6.011320   -44.694570    -1.479529
-48.678068   -54.927281   -648.626811
 0.75000   -6.011320   -44.686828    -1.479529
-48.696534   -57.895714   -665.070982
 1.00000   -6.011320   -44.679703    -1.479529
-48.715856   -61.164493   -681.837309

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.573079    56.080088     7.900573
264.776636    18.144922    1312.576
 0.25000    9.573079    56.086532     7.900573
264.758807    15.030413    1364.028
 0.50000    9.573079    56.093628     7.900573
264.741720    12.366549    1455.894
 0.75000    9.573079    56.101222     7.900573
264.725857    10.012692    1526.712
 1.00000    9.573079    56.109100     7.900573
264.711660     7.818492    1603.016

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -14.818130   -95.225430    -4.138987
-80.041606   -83.529953   -1130.031
 0.25000   -14.818130   -95.216984    -4.138987
-80.057150   -84.376632   -1153.734
 0.50000   -14.818130   -95.208812    -4.138987
-80.074352   -86.060767   -1177.480
 0.75000   -14.818130   -95.201076    -4.138987
-80.092758   -88.948689   -1201.205
 1.00000   -14.818130   -95.193956    -4.138987
-80.112015   -92.606362   -1224.937
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                486

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   12.522282    89.245903     7.774846
347.114721    24.934210    2168.564
 0.25000   12.522282    89.315508     7.774846
346.922065    21.880648    2272.801
 0.50000   12.522282    89.392154     7.774846
346.737437    19.321274    2382.071
 0.75000   12.522282    89.474173     7.774846
346.566037    17.118369    2496.485
 1.00000   12.522282    89.559274     7.774846
346.412636    15.185703    2614.899

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -12.468684  -165.167331    -3.407548
-142.618415   -72.240530   -1585.634
 0.25000   -12.468684  -165.076108    -3.407548
-142.786362   -74.115964   -1614.999
 0.50000   -12.468684  -164.987842    -3.407548
-142.972223   -76.800391   -1644.275
 0.75000   -12.468684  -164.904282    -3.407548
-143.171086   -80.247825   -1673.630
 1.00000   -12.468684  -164.827381    -3.407548
-143.379148   -84.349367   -1702.962

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   20.941338   153.115723     8.918396
434.197102    62.097550    2965.141
 0.25000   20.941338   163.355019     8.918396
410.726118    59.651045    3117.273
 0.50000   20.941338   174.615757     8.918396
388.167874    57.807921    3257.582
 0.75000   20.941338   186.649387     8.918396
367.306353    56.398505    3387.868
 1.00000   20.941338   199.101473     8.918396
348.880862    55.401995    3504.972

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -16.360344  -303.609052    -5.602287
-243.672390   -71.098389   -1847.576
 0.25000   -16.360344  -290.207701    -5.602287
-264.666845   -72.199309   -1859.731
 0.50000   -16.360344  -277.203377    -5.602287
-288.185633   -73.950649   -1886.343
 0.75000   -16.360344  -264.866721    -5.602287
-313.493226   -76.423186   -1912.804
 1.00000   -16.360344  -253.494622    -5.602287
-339.777512   -79.493342   -1939.223

 COMB       DB ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   19.643341   212.897963     7.809549
408.060959    99.761657    3867.384
 0.25000   19.643341   240.495986     7.809549
373.155602   100.056611    3986.654
 0.50000   19.643341   270.566026     7.809549
345.895212   102.096124    4087.772
 0.75000   19.643341   302.481001     7.809549
326.028654   105.762471    4176.335
 1.00000   19.643341   335.248622     7.809549
318.726049   110.919822    4250.434

 COMB       DB ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -15.233709  -442.351167    -8.205321
-472.283811   -71.609308   -1264.140
 0.25000  -15.233709  -411.930402    -8.205321
-472.283811   -71.288152   -1187.149
 0.50000  -15.233709  -382.141679    -8.205321
-472.283811   -72.532333   -1110.158
 0.75000  -15.233709  -353.714952    -8.205321
-472.283811   -75.410771   -1033.195
 1.00000  -15.233709  -327.339595    -8.205321
-472.283811   -79.523717   -956.233299
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                487

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       DL ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   25.027274   221.531742     8.918396
434.197102   111.592526    3763.883
 0.25000   25.027274   240.622949     8.918396
410.726118   113.799906    3949.413
 0.50000   25.027274   261.539737     8.918396
388.167874   116.807598    4109.122
 0.75000   25.027274   283.677647     8.918396
367.306353   120.765287    4245.406
 1.00000   25.027274   306.460272     8.918396
357.546180   125.551698    4354.034

 COMB       DL ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -25.891850  -444.879563    -9.766751
-483.780571   -83.529953   -1920.317
 0.25000  -25.891850  -420.038697    -9.766751
-480.484052   -84.376632   -1939.364
 0.50000  -25.891850  -395.687740    -9.766751
-477.170819   -86.060767   -1958.696
 0.75000  -25.891850  -372.442023    -9.766751
-473.857586   -88.948689   -1977.834
 1.00000  -25.891850  -350.858609    -9.766751
-470.544353   -92.606362   -1996.922

 COMB       CAR ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   25.027274   221.531742     8.918396
434.197102   111.592526    3867.384
 0.25000   25.027274   240.622949     8.918396
410.726118   113.799906    3986.654
 0.50000   25.027274   270.566026     8.918396
388.167874   116.807598    4109.122
 0.75000   25.027274   302.481001     8.918396
367.306353   120.765287    4245.406
 1.00000   25.027274   335.248622     8.918396
357.546180   125.551698    4354.034

 COMB       CAR ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -25.891850  -444.879563    -9.766751
-483.780571   -83.529953   -1920.317
 0.25000  -25.891850  -420.038697    -9.766751
-480.484052   -84.376632   -1939.364
 0.50000  -25.891850  -395.687740    -9.766751
-477.170819   -86.060767   -1958.696
 0.75000  -25.891850  -372.442023    -9.766751
-473.857586   -88.948689   -1977.834
 1.00000  -25.891850  -350.858609    -9.766751
-472.283811   -92.606362   -1996.922

 COMB  DESIGN ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   25.027274   221.531742     8.918396
434.197102   111.592526    3867.384
 0.25000   25.027274   240.622949     8.918396
410.726118   113.799906    3986.654
 0.50000   25.027274   270.566026     8.918396
388.167874   116.807598    4109.122
 0.75000   25.027274   302.481001     8.918396
367.306353   120.765287    4245.406
 1.00000   25.027274   335.248622     8.918396
357.546180   125.551698    4354.034

 COMB  DESIGN ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -25.891850  -444.879563    -9.766751
-483.780571   -83.529953   -1920.317
 0.25000  -25.891850  -420.038697    -9.766751
-480.484052   -84.376632   -1939.364
 0.50000  -25.891850  -395.687740    -9.766751
-477.170819   -86.060767   -1958.696
 0.75000  -25.891850  -372.442023    -9.766751
-473.857586   -88.948689   -1977.834
 1.00000  -25.891850  -350.858609    -9.766751
-472.283811   -92.606362   -1996.922
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                488

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       15 ================== LENGTH
=     4.986699

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.952104   171.959477     4.520543
225.687900    81.228480    2282.596
 0.25000    9.952104   194.493654     4.520543
225.687900    79.276014    2331.683
 0.50000    9.952104   219.026941     4.520543
225.687900    78.514209    2346.291
 0.75000    9.952104   245.000149     4.520543
225.687900    78.683094    2333.064
 1.00000    9.952104   270.887069     4.520543
225.687900    80.039098    2285.854

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -10.078944  -272.032609    -4.107395
-224.190561   -10.880451   -382.614199
 0.25000  -10.078944  -246.141218    -4.107395
-224.190561    -9.291147   -350.678484
 0.50000  -10.078944  -220.158033    -4.107395
-224.190561    -7.709885   -345.004764
 0.75000  -10.078944  -195.609165    -4.107395
-224.190561    -7.819920  -379.814260
 1.00000  -10.078944  -173.053773    -4.107395
-224.190561    -8.966379  -414.623755

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   20.339040   258.510254     6.368364
326.409135   112.386661    3707.066
 0.25000   20.339040   286.882949     6.368364
326.409135   109.687000    3742.228
 0.50000   20.339040   317.677151     6.368364
326.409135   108.427857    3748.188
 0.75000   20.339040   350.225531     6.368364
326.409135   108.830287    3745.033
 1.00000   20.339040   383.484881     6.368364
326.409135   110.674231    3713.332

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -13.893114  -385.564978    -5.812794
-325.000576   -16.200531   -678.958048
 0.25000  -13.893114  -352.300372    -5.812794
-325.000576   -14.214684   -623.177755
 0.50000  -13.893114  -319.739855    -5.812794
-325.000576   -12.253161   -615.011030
 0.75000  -13.893114  -288.926730    -5.812794
-325.000576   -12.103458   -675.928263
 1.00000  -13.893114  -260.528227    -5.812794
-325.000576   -13.489953   -736.846605

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   17.266892   263.777269     6.418351
380.265409   100.993607    4250.822
 0.25000   17.266892   289.825451     6.418351
380.265409    97.951840    4275.790
 0.50000   17.266892   318.091822     6.418351
380.265409    96.528171    4280.125
 0.75000   17.266892   347.963857     6.418351
380.265409    97.377529    4279.956
 1.00000   17.266892   378.551081     6.418351
380.265409    99.684431    4259.813

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -13.590456  -381.328500    -5.908464
-379.648141   -16.920640   -893.170630
 0.25000  -13.590456  -350.736470    -5.908464
-379.648141   -15.088862   -821.785499
 0.50000  -13.590456  -320.853327    -5.908464
-379.648141   -13.267514   -815.505880
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                489

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.75000  -13.590456  -292.569635    -5.908464
-379.648141   -13.283886   -893.867752
 1.00000  -13.590456  -266.497837    -5.908464
-379.648141   -14.610306   -972.229625

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   17.025844   233.048964     7.217446
356.784867    85.285923    4020.185
 0.25000   17.025844   254.766167     7.217446
356.784867    82.811080    4040.821
 0.50000   17.025844   278.332598     7.217446
356.784867    81.679494    4044.579
 0.75000   17.025844   303.237580     7.217446
356.784867    82.416532    4045.503
 1.00000   17.025844   328.740693     7.217446
356.784867    84.363984    4030.250

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -16.027434  -330.232225    -6.923817
-356.646351   -42.907005   -956.167517
 0.25000  -16.027434  -304.725106    -6.923817
-356.646351   -40.413330   -882.195190
 0.50000  -16.027434  -279.810864    -6.923817
-356.646351   -38.478199   -880.687261
 0.75000  -16.027434  -256.229993    -6.923817
-356.646351   -38.725469   -962.465346
 1.00000  -16.027434  -234.493104    -6.923817
-356.646351   -40.617890   -1044.243

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.386493    69.458110     1.291249
145.657816    20.169720    1417.784
 0.25000   10.386493    69.470779     1.291249
145.616159    19.817540    1385.966
 0.50000   10.386493    69.484403     1.291249
145.581148    19.645503    1371.898
 0.75000   10.386493    69.498700     1.291249
145.548907    19.643138    1387.806
 1.00000   10.386493    69.514836     1.291249
145.518130    19.804393    1421.517

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -2.632728   -70.564087    -1.221587
-145.950149    -4.780880   -338.580987
 0.25000   -2.632728   -70.547950    -1.221587
-145.980097    -4.531584   -311.929248
 0.50000   -2.632728   -70.533648    -1.221587
-146.013144    -4.290167   -310.395146
 0.75000   -2.632728   -70.520017    -1.221587
-146.048153    -4.104586   -339.693699
 1.00000   -2.632728   -70.507338    -1.221587
-146.089810    -4.268004   -368.992253

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.288500    94.985392     2.808087
228.342771    19.338499    2264.995
 0.25000    9.288500    94.998061     2.808087
228.301113    18.365003    2226.047
 0.50000    9.288500    95.011686     2.808087
228.266102    17.904937    2211.031
 0.75000    9.288500    95.025983     2.808087
228.233052    18.468357    2229.571
 1.00000    9.288500    95.042118     2.808087
228.203084    19.372813    2272.262

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -7.026903   -97.061449    -2.769720
-229.337044   -18.240450   -633.995643
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                490

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.25000   -7.026903   -97.045312    -2.769720
-229.366992   -17.420742   -585.811693
 0.50000   -7.026903   -97.031011    -2.769720
-229.400040   -16.931683   -586.820007
 0.75000   -7.026903   -97.017379    -2.769720
-229.435048   -17.069768   -640.219912
 1.00000   -7.026903   -97.004700    -2.769720
-229.476705   -17.773141   -693.619817

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   14.378325   216.967844     5.623353
370.198488    73.072046    3778.769
 0.25000   14.378325   238.886500     5.623353
343.719286    70.832156    3800.047
 0.50000   14.378325   262.569544     5.623353
314.572179    69.712809    3803.858
 0.75000   14.378325   287.513228     5.623353
283.210763    70.498645    3804.356
 1.00000   14.378325   314.296442     5.623353
281.098258    72.268993    3787.923

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -13.207571  -317.046152    -5.294886
-281.394070   -23.945923   -874.286616
 0.25000  -13.207571  -290.259991    -5.294886
-283.427855   -22.248262   -805.754733
 0.50000  -13.207571  -265.307603    -5.294886
-314.800808   -20.849350   -802.549519
 0.75000  -13.207571  -241.610994    -5.294886
-343.958660   -20.866089   -878.053538
 1.00000  -13.207571  -219.674076    -5.294886
-370.437542   -22.159830   -953.557557

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   14.761276   193.515059     6.520243
339.368312    62.020375    3569.569
 0.25000   14.761276   211.771891     6.520243
317.312838    60.009410    3587.157
 0.50000   14.761276   231.498345     6.520243
293.035171    59.091784    3591.546
 0.75000   14.761276   252.274831     6.520243
266.913126    59.783654    3591.960
 1.00000   14.761276   274.583528     6.520243
265.153546    61.299377    3579.808

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -13.799300  -275.123828    -6.401564
-265.635603   -52.347124   -936.638829
 0.25000  -13.799300  -252.812190    -6.401564
-267.329615   -50.127645   -865.786014
 0.50000  -13.799300  -232.028454    -6.401564
-293.461269   -48.591545   -867.615058
 0.75000  -13.799300  -212.290702    -6.401564
-317.747887   -48.754133   -946.292311
 1.00000  -13.799300  -194.018659    -6.401564
-339.803094   -50.418433   -1024.970

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.570271    19.151774     2.774437
43.290030     3.623780   605.443935
 0.25000    4.570271    19.164449     2.774437
43.248295     2.668872   605.454035
 0.50000    4.570271    19.178079     2.774437
43.213224     1.747412   606.026722
 0.75000    4.570271    19.192382     2.774437
43.180113     2.268471   607.397249
 1.00000    4.570271    19.208528     2.774437
43.150959     3.015384   608.499557
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                491

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -5.192405   -16.831645    -3.024964
-43.369440   -53.243533   -315.331919
 0.25000   -5.192405   -16.815497    -3.024964
-43.399474   -52.001497   -294.864982
 0.50000   -5.192405   -16.801190    -3.024964
-43.432582   -51.444667   -302.188196
 0.75000   -5.192405   -16.787553    -3.024964
-43.467651   -51.631975   -325.725965
 1.00000   -5.192405   -16.774868    -3.024964
-43.509386   -52.504459   -349.263734

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.426559    38.937454     4.931861
106.648840     5.211248    1278.123
 0.25000    7.426559    38.950123     4.931861
106.607182     4.281906    1275.311
 0.50000    7.426559    38.963748     4.931861
106.572172     3.514637    1274.496
 0.75000    7.426559    38.978045     4.931861
106.539121     3.924651    1278.757
 1.00000    7.426559    38.994180     4.931861
106.509153     4.715808    1285.268

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -12.405539   -36.878398    -5.292835
-107.288176   -80.348622   -573.128187
 0.25000  -12.405539   -36.862261    -5.292835
-107.318123   -77.991189   -547.334493
 0.50000  -12.405539   -36.847959    -5.292835
-107.351171   -76.940555   -544.858125
 0.75000  -12.405539   -36.834328    -5.292835
-107.386180   -77.463229   -589.026134
 1.00000  -12.405539   -36.821649    -5.292835
-107.427837   -79.316498   -633.194144

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    8.696592    77.590332     4.766939
202.566930    10.664808    2211.035
 0.25000    8.696592    77.601735     4.766939
202.529439     9.111242    2192.280
 0.50000    8.696592    77.613997     4.766939
202.497929     8.099748    2186.604
 0.75000    8.696592    77.626864     4.766939
202.468183     8.859198    2197.012
 1.00000    8.696592    77.641386     4.766939
202.441212    10.195739    2220.762

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -10.098785   -76.596067    -5.033061
-203.676702   -68.667660   -801.753436
 0.25000  -10.098785   -76.581544    -5.033061
-203.703655   -66.770721   -744.765900
 0.50000  -10.098785   -76.568672    -5.033061
-203.733398   -65.872030   -753.917787
 0.75000  -10.098785   -76.556404    -5.033061
-203.764906   -66.281397   -818.047940
 1.00000  -10.098785   -76.544993    -5.033061
-203.802397   -67.749228   -882.178093

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   14.349248   160.667602     6.105823
350.970405    46.232426    3197.742
 0.25000   14.349248   173.545351     6.105823
315.498202    44.080399    3201.398
 0.50000   14.349248   187.426236     6.105823
285.694145    42.737136    3200.489
 0.75000   14.349248   202.018444     6.105823
262.798421    43.564214    3206.330
 1.00000   14.349248   218.095126     6.105823
238.185451    45.248130    3208.169
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.949323	-218.011170	-6.134679
-238.909803	-62.395341	-919.980328	
0.25000	-12.949323	-201.932585	-6.134679
-263.527786	-60.262566	-851.855185	
0.50000	-12.949323	-187.335470	-6.134679
-286.422156	-58.961408	-856.566365	
0.75000	-12.949323	-173.446946	-6.134679
-316.254109	-59.111245	-932.540122	
1.00000	-12.949323	-160.558994	-6.134679
-351.689089	-60.702972	-1008.514	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.791912	161.485636	4.863159
226.780763	89.663265	2208.895	
0.25000	12.791912	179.751782	4.863159
232.617059	88.312658	2269.482	
0.50000	12.791912	199.506081	4.863159
237.474438	87.644647	2296.785	
0.75000	12.791912	220.266545	4.863159
241.278130	87.771871	2289.729	
1.00000	12.791912	241.463013	4.863159
244.102920	88.583804	2249.486	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.363457	-243.119472	-4.804195
-243.136888	-19.497537	-787.715438	
0.25000	-21.363457	-221.828343	-4.804195
-240.367293	-18.627804	-796.918442	
0.50000	-21.363457	-201.014002	-4.804195
-236.618787	-17.771944	-806.434742	
0.75000	-21.363457	-181.232627	-4.804195
-231.816584	-17.538139	-815.772811	
1.00000	-21.363457	-162.964054	-4.804195
-226.035485	-17.695768	-825.034813	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.053359	256.042357	6.942704
340.064122	128.155724	3641.865	
0.25000	26.053359	278.329740	6.942704
343.376391	126.527695	3702.449	
0.50000	26.053359	302.462796	6.942704
345.933938	125.698751	3733.098	
0.75000	26.053359	327.853770	6.942704
346.744112	125.840635	3738.705	
1.00000	26.053359	353.872325	6.942704
346.744112	126.807454	3714.054	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.491667	-356.679104	-6.832248
-346.690691	-29.316398	-1400.959	
0.25000	-25.491667	-330.571320	-6.832248
-346.690691	-28.316398	-1417.384	
0.50000	-25.491667	-305.107094	-6.832248
-345.935974	-27.258970	-1434.303	
0.75000	-25.491667	-280.948160	-6.832248
-343.433873	-26.934022	-1450.986	
1.00000	-25.491667	-258.651180	-6.832248
-340.121604	-27.288932	-1467.460	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.288913	278.065274	6.913390
382.881494	115.597640	4354.311	
0.25000	23.288913	298.534511	6.913390
385.276945	113.903518	4417.914	
0.50000	23.288913	320.702311	6.913390
387.257359	113.141902	4454.145	
0.75000	23.288913	344.029681	6.913390
387.710914	113.629307	4466.683	
1.00000	23.288913	367.939020	6.913390
387.710914	115.007000	4451.545	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.672206	-371.615704	-6.837746
-388.654640	-35.191192	-1872.818	
0.25000	-24.672206	-347.624466	-6.837746
-388.654640	-33.579044	-1894.988	
0.50000	-24.672206	-324.230131	-6.837746
-388.239608	-32.633659	-1917.675	
0.75000	-24.672206	-302.038494	-6.837746
-386.297708	-32.701844	-1940.096	
1.00000	-24.672206	-281.560640	-6.837746
-383.902258	-33.706957	-1962.368	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.273319	254.489099	7.694981
365.990137	88.305964	4213.427	
0.25000	22.273319	271.551139	7.694981
367.986854	96.731719	4272.186	
0.50000	22.273319	290.029009	7.694981
369.637619	96.089835	4308.230	
0.75000	22.273319	309.473433	7.694981
370.015679	96.522087	4324.512	
1.00000	22.273319	329.402954	7.694981
370.015679	97.777277	4317.883	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.985355	-332.735645	-7.690008
-371.154302	-61.142043	-1996.932	
0.25000	-26.985355	-312.737858	-7.690008
-371.154302	-59.283161	-2020.866	
0.50000	-26.985355	-293.237615	-7.690008
-370.808354	-58.205316	-2045.236	
0.75000	-26.985355	-274.739876	-7.690008
-369.189692	-58.394879	-2069.388	
1.00000	-26.985355	-257.670654	-7.690008
-367.192975	-59.691275	-2093.412	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.149368	84.303964	1.540440
136.828692	28.185089	1482.582	
0.25000	13.149368	84.310764	1.540440
136.810154	27.955815	1472.468	
0.50000	13.149368	84.318221	1.540440
136.792396	27.855535	1473.672	
0.75000	13.149368	84.326101	1.540440
136.775872	27.931055	1490.569	
1.00000	13.149368	84.334302	1.540440
136.761057	28.166372	1518.775	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.327399	-85.615255	-1.508377
-137.778596	-9.690905	-698.641257	
0.25000	-3.327399	-85.607036	-1.508377
-137.793423	-9.501074	-707.049710	
0.50000	-3.327399	-85.599124	-1.508377
-137.809944	-9.407037	-715.416834	
0.75000	-3.327399	-85.591672	-1.508377
-137.827695	-9.402064	-723.779749	
1.00000	-3.327399	-85.584865	-1.508377
-137.846210	-9.640449	-732.140699	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.084335	127.368926	2.953730
213.069862	25.496478	2503.156	
0.25000	12.084335	127.375727	2.953730
213.051316	24.975377	2502.147	
0.50000	12.084335	127.383185	2.953730
213.033550	24.873809	2511.909	
0.75000	12.084335	127.391066	2.953730
213.017018	25.307091	2537.090	
1.00000	12.084335	127.399267	2.953730
213.002197	26.130428	2572.934	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.749301	-129.889887	-2.971634
-215.048021	-28.072258	-1331.398	
0.25000	-8.749301	-129.881667	-2.971634
-215.062855	-27.437471	-1347.531	
0.50000	-8.749301	-129.873755	-2.971634
-215.079383	-27.242137	-1363.672	
0.75000	-8.749301	-129.866302	-2.971634
-215.097142	-27.555151	-1379.813	
1.00000	-8.749301	-129.859494	-2.971634
-215.115666	-28.494688	-1395.909	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.566066	238.237417	5.905971
372.718717	85.438972	3942.146	
0.25000	19.566066	256.208379	5.905971
340.946945	84.466380	4002.336	
0.50000	19.566066	275.829819	5.905971
310.187844	84.065951	4037.563	
0.75000	19.566066	296.484726	5.905971
281.810659	84.415502	4049.937	
1.00000	19.566066	317.854590	5.905971
276.118396	85.324664	4037.200	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.015826	-321.435459	-5.870740
-278.107388	-38.766398	-1824.130	
0.25000	-19.015826	-300.017377	-5.870740
-283.728824	-37.705523	-1846.124	
0.50000	-19.015826	-279.276900	-5.870740
-312.099562	-37.005876	-1868.090	
0.75000	-19.015826	-259.667343	-5.870740
-342.806007	-37.086280	-1890.031	
1.00000	-19.015826	-241.695525	-5.870740
-374.564999	-37.914608	-1911.910	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.962863	220.080037	6.868475
354.321045	73.368234	3828.588	
0.25000	19.962863	235.051145	6.868475
327.852866	72.125124	3884.603	
0.50000	19.962863	251.397222	6.868475
302.228315	71.629449	3919.945	
0.75000	19.962863	268.604249	6.868475
278.588072	71.933433	3936.262	
1.00000	19.962863	286.406889	6.868475
273.846006	72.811062	3931.887	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.866192	-289.337718	-6.893280
-275.479003	-69.424049	-1965.988	
0.25000	-19.866192	-271.494910	-6.893280
-280.162064	-67.812804	-1989.922	
0.50000	-19.866192	-254.216595	-6.893280
-303.709937	-66.923225	-2012.930	
0.75000	-19.866192	-237.880419	-6.893280
-329.377623	-67.054695	-2037.733	
1.00000	-19.866192	-222.886937	-6.893280
-355.835155	-68.174121	-2061.574	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.530542	31.965192	3.161619
65.409014	5.117226	788.259672	
0.25000	7.530542	31.971994	3.161619
65.390443	4.078430	797.269419	
0.50000	7.530542	31.979455	3.161619
65.372653	3.318767	806.444181	
0.75000	7.530542	31.987338	3.161619
65.356100	3.507033	815.612542	
1.00000	7.530542	31.995542	3.161619
65.341257	4.114484	825.088262	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.378432	-32.051223	-3.241602
-64.986918	-61.398500	-681.818995	
0.25000	-6.378432	-32.043001	-3.241602
-65.001773	-60.190668	-690.369788	
0.50000	-6.378432	-32.035086	-3.241602
-65.018323	-59.542577	-698.947850	
0.75000	-6.378432	-32.027631	-3.241602
-65.036106	-59.664390	-707.741499	
1.00000	-6.378432	-32.020821	-3.241602
-65.054655	-60.406265	-716.584746	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.031731	65.270685	5.461429
131.776199	7.993425	1602.562	
0.25000	10.031731	65.277483	5.461429
131.757694	6.768148	1618.310	
0.50000	10.031731	65.284937	5.461429
131.739968	5.981223	1634.456	
0.75000	10.031731	65.292814	5.461429
131.723473	6.228529	1651.093	
1.00000	10.031731	65.301011	5.461429
131.708687	7.115830	1668.307	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.297322	-66.224703	-5.611046
-132.132366	-92.848376	-1224.934	
0.25000	-15.297322	-66.216487	-5.611046
-132.147166	-90.773333	-1240.011	
0.50000	-15.297322	-66.208578	-5.611046
-132.163657	-89.742609	-1255.323	
0.75000	-15.297322	-66.201129	-5.611046
-132.181377	-90.219624	-1270.608	
1.00000	-15.297322	-66.194324	-5.611046
-132.199858	-91.807751	-1287.369	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.935070	116.091704	5.111985
211.559435	15.498304	2614.417	
0.25000	12.935070	116.165125	5.111985
211.359492	14.213324	2630.068	
0.50000	12.935070	116.245643	5.111985
211.167961	13.493287	2650.115	
0.75000	12.935070	116.330723	5.111985
210.989740	13.981182	2675.305	
1.00000	12.935070	116.421660	5.111985
210.829970	15.093457	2704.963	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.026825	-118.342103	-5.229151
-212.136164	-84.487646	-1702.971	
0.25000	-13.026825	-118.253365	-5.229151
-212.296076	-82.880901	-1723.953	
0.50000	-13.026825	-118.167943	-5.229151
-212.474259	-82.139619	-1744.954	
0.75000	-13.026825	-118.087484	-5.229151
-212.665719	-82.539138	-1765.964	
1.00000	-13.026825	-118.013982	-5.229151
-212.865413	-83.873435	-1786.935	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.528839	191.900343	6.598569
353.014832	56.555858	3504.707	
0.25000	21.528839	202.737196	6.598569
328.198062	55.120291	3548.085	
0.50000	21.528839	214.602097	6.598569
304.317024	54.348154	3578.228	
0.75000	21.528839	227.114331	6.598569
282.173314	54.714031	3599.192	
1.00000	21.528839	240.105273	6.598569
262.493447	55.815139	3606.960	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.244756	-242.765184	-6.649928
-264.001963	-80.238996	-1939.229	
0.25000	-17.244756	-229.752072	-6.649928
-283.743427	-78.519047	-1962.944	
0.50000	-17.244756	-217.187291	-6.649928
-305.872896	-77.585805	-1986.602	
0.75000	-17.244756	-205.331617	-6.649928
-329.743130	-77.796671	-2010.267	
1.00000	-17.244756	-194.474069	-6.649928
-354.473451	-79.061145	-2033.892	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.339040	263.777269	7.217446
380.265409	112.386661	4250.822	
0.25000	20.339040	289.825451	7.217446
380.265409	109.687000	4275.790	
0.50000	20.339040	318.091822	7.217446
380.265409	108.427857	4280.125	
0.75000	20.339040	350.225531	7.217446
380.265409	108.840387	4271.856	
1.00000	20.339040	383.484881	7.217446
380.265409	110.674231	4259.813	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.027434	-385.564978	-6.923817
-379.648141	-80.348622	-956.167517	
0.25000	-16.027434	-352.300372	-6.923817
-379.648141	-77.991189	-882.195190	
0.50000	-16.027434	-320.853327	-6.923817
-379.648141	-76.940555	-880.687261	
0.75000	-16.027434	-292.569635	-6.923817
-379.648141	-77.463229	-962.465346	
1.00000	-16.027434	-266.497837	-6.923817
-379.648141	-79.316498	-1044.243	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.053359	278.065274	7.694981
382.881494	128.155724	4354.311	
0.25000	26.053359	298.534511	7.694981
385.276945	126.527695	4417.914	
0.50000	26.053359	320.702311	7.694981
387.257359	125.698751	4454.145	
0.75000	26.053359	344.029681	7.694981
387.710914	125.840635	4466.683	
1.00000	26.053359	367.939020	7.694981
387.710914	126.807454	4451.545	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.985355	-371.615704	-7.690008
-388.654640	-92.848376	-1996.932	
0.25000	-26.985355	-347.624466	-7.690008
-388.654640	-90.773333	-2020.866	
0.50000	-26.985355	-324.230131	-7.690008
-388.239608	-89.742609	-2045.236	
0.75000	-26.985355	-302.038494	-7.690008
-386.297708	-90.219624	-2069.388	
1.00000	-26.985355	-281.560640	-7.690008
-383.902258	-91.807751	-2093.412	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.053359	278.065274	7.694981
382.881494	128.155724	4354.311	
0.25000	26.053359	298.534511	7.694981
385.276945	126.527695	4417.914	
0.50000	26.053359	320.702311	7.694981
387.257359	125.698751	4454.145	
0.75000	26.053359	350.225531	7.694981
387.710914	125.840635	4466.683	
1.00000	26.053359	383.484881	7.694981
387.710914	126.807454	4451.545	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.985355	-385.564978	-7.690008
-388.654640	-92.848376	-1996.932	
0.25000	-26.985355	-352.300372	-7.690008
-388.654640	-90.773333	-2020.866	
0.50000	-26.985355	-324.230131	-7.690008
-388.239608	-89.742609	-2045.236	
0.75000	-26.985355	-302.038494	-7.690008
-386.297708	-90.219624	-2069.388	
1.00000	-26.985355	-281.560640	-7.690008
-383.902258	-91.807751	-2093.412	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.053359	278.065274	7.694981
382.881494	128.155724	4354.311	
0.25000	26.053359	298.534511	7.694981
385.276945	126.527695	4417.914	
0.50000	26.053359	320.702311	7.694981
387.257359	125.698751	4454.145	
0.75000	26.053359	350.225531	7.694981
387.710914	125.840635	4466.683	
1.00000	26.053359	383.484881	7.694981
387.710914	126.807454	4451.545	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.985355	-385.564978	-7.690008
-388.654640	-92.848376	-1996.932	
0.25000	-26.985355	-352.300372	-7.690008
-388.654640	-90.773333	-2020.866	
0.50000	-26.985355	-324.230131	-7.690008
-388.239608	-89.742609	-2045.236	
0.75000	-26.985355	-302.038494	-7.690008
-386.297708	-90.219624	-2069.388	
1.00000	-26.985355	-281.560640	-7.690008
-383.902258	-91.807751	-2093.412	

ELEM 16 ========== LENGTH = 4.988369

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.555659	200.502077	6.570630
343.988898	80.926249	2285.155	
0.25000	10.555659	223.334940	6.570630
343.988898	75.893256	2292.784	
0.50000	10.555659	248.024653	6.570630
343.988898	71.921403	2270.347	
0.75000	10.555659	273.994447	6.570630
343.988898	69.122192	2214.661	
1.00000	10.555659	299.692529	6.570630
343.988898	67.359108	2125.936	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.694770	-243.397145	-1.961001
-109.508680	-10.367900	-414.674302	
0.25000	-10.694770	-217.902474	-1.961001
-109.508680	-12.730084	-454.035952	
0.50000	-10.694770	-192.428974	-1.961001
-109.508680	-15.096568	-493.397932	
0.75000	-10.694770	-168.467376	-1.961001
-109.508680	-17.468544	-532.759961	
1.00000	-10.694770	-146.542414	-1.961001
-109.508680	-19.842042	-572.121989	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.001784	307.292914	8.538045
466.217513	111.786172	3712.634	
0.25000	21.001784	336.032414	8.538045
466.217513	105.829853	3673.419	
0.50000	21.001784	367.018814	8.538045
466.217513	101.365298	3612.693	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	21.001784	399.566296	8.538045
466.217513	98.541708	3534.422	
1.00000	21.001784	432.609105	8.538045
466.217513	97.542517	3430.168	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.728399	-337.037370	-4.657115
-187.325564	-15.345328	-736.928898	
0.25000	-14.728399	-304.228049	-4.657115
-187.325564	-17.859064	-804.604598	
0.50000	-14.728399	-272.265159	-4.657115
-187.325564	-20.419489	-872.281740	
0.75000	-14.728399	-242.141323	-4.657115
-187.325564	-23.012743	-939.961072	
1.00000	-14.728399	-214.484174	-4.657115
-187.325564	-25.631649	-1007.640	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.828981	324.436092	8.175585
472.651283	100.281363	4259.297	
0.25000	17.828981	350.820106	8.175585
472.651283	95.182913	4189.559	
0.50000	17.828981	379.262586	8.175585
472.651283	91.467409	4105.438	
0.75000	17.828981	409.134046	8.175585
472.651283	89.310333	4008.470	
1.00000	17.828981	439.524037	8.175585
472.651283	88.770396	3892.967	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.471795	-320.800268	-4.621255
-280.852887	-16.130624	-972.298898	
0.25000	-14.471795	-290.623163	-4.621255
-280.852887	-18.254835	-1056.655	
0.50000	-14.471795	-261.285291	-4.621255
-280.852887	-20.407847	-1141.012	
0.75000	-14.471795	-233.630761	-4.621255
-280.852887	-22.579475	-1225.368	
1.00000	-14.471795	-208.235589	-4.621255
-280.852887	-24.770078	-1309.724	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.714422	291.042617	8.527515
413.125108	84.845797	4030.005	
0.25000	17.714422	313.039787	8.527515
413.125108	80.571774	3954.431	
0.50000	17.714422	336.753035	8.527515
413.125108	77.486670	3867.756	
0.75000	17.714422	361.657546	8.527515
413.125108	76.226249	3771.176	
1.00000	17.714422	386.996265	8.527515
413.125108	76.394308	3660.080	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.780271	-279.834769	-6.344790

-318.775116 -42.447203 -1044.271
0.25000 -16.780271 -254.673496 -6.344790
-318.775116 -42.702738 -1128.905
0.50000 -16.780271 -230.213762 -6.344790
-318.775116 -43.561202 -1213.543
0.75000 -16.780271 -207.157335 -6.344790
-318.775116 -45.173618 -1298.181
1.00000 -16.780271 -185.984452 -6.344790
-318.775116 -47.417428 -1382.819

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.349363 91.455121 1.103314
143.346315 19.803055 1421.545

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 10.349363 91.467931 1.103314
143.304443 19.571622 1352.270
0.50000 10.349363 91.481633 1.103314
143.262224 19.605420 1303.766
0.75000 10.349363 91.495936 1.103314
143.236000 20.054571 1282.019
1.00000 10.349363 91.512014 1.103314
143.205361 21.476247 1281.580

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.723244 -48.852658 -2.425118
-139.220147 -4.543724 -369.016407
0.25000 -2.723244 -48.836647 -2.425118
-139.248754 -4.517544 -399.973789
0.50000 -2.723244 -48.822529 -2.425118
-139.281147 -4.540527 -430.943912
0.75000 -2.723244 -48.809114 -2.425118
-139.315018 -4.593753 -461.914035
1.00000 -2.723244 -48.796668 -2.425118
-139.355786 -4.667003 -492.884158

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.306636 133.684083 2.615465
181.077341 19.032627 2272.458
0.25000 9.306636 133.696893 2.615465
181.035469 18.951819 2169.038
0.50000 9.306636 133.710595 2.615465
181.000250 19.247040 2091.349
0.75000 9.306636 133.724897 2.615465
180.967026 20.121370 2044.625
1.00000 9.306636 133.740975 2.615465
180.936387 21.575494 2022.954

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.285302 -63.294374 -3.752091
-263.686740 -18.314835 -693.624180
0.25000 -7.285302 -63.278363 -3.752091
-263.715347 -17.372554 -747.667837
0.50000 -7.285302 -63.264245 -3.752091
-263.747740 -17.005878 -801.717587
0.75000 -7.285302 -63.250830 -3.752091
-263.781611 -17.112427 -855.767338
1.00000 -7.285302 -63.238384 -3.752091
-263.822379 -17.580267 -909.817089

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.824006 274.020776 6.616859
402.576423 72.535807 3787.848
0.25000 14.824006 296.203685 6.616859
375.945650 69.454881 3718.218
0.50000 14.824006 320.028052 6.616859
346.765666 67.269841 3637.294
0.75000 14.824006 344.976187 6.616859
315.386189 66.843176 3545.612
1.00000 14.824006 371.625012 6.616859
313.129966 67.256735 3438.325

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.860142 -264.267351 -5.130773
-265.725269 -23.381615 -953.602072
0.25000 -13.860142 -237.767050 -5.130773
-265.727403 -23.914694 -1033.020
0.50000 -13.860142 -213.205824 -5.130773
-274.373118 -24.788648 -1112.443
0.75000 -13.860142 -189.964715 -5.130773
-304.761288 -26.098798 -1191.866
1.00000 -13.860142 -168.516814 -5.130773
-331.943067 -27.736590 -1271.290

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.373285 244.943893 6.710584
359.361901 61.572494 3579.944
0.25000 15.373285 263.420831 6.710584
337.180178 59.464998 3506.511
0.50000 15.373285 283.264998 6.710584
312.875126 58.241223 3424.034
0.75000 15.373285 304.045191 6.710584
286.738037 58.363142 3333.484
1.00000 15.373285 326.241951 6.710584
284.858749 59.551868 3230.624

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.587454 -232.168912 -7.049561
-300.645360 -52.043924 -1024.972
0.25000 -14.587454 -210.095864 -7.049561
-300.647138 -50.635385 -1104.052
0.50000 -14.587454 -189.637941 -7.049561
-307.848463 -49.952656 -1183.136
0.75000 -14.587454 -170.279591 -7.049561
-333.159856 -50.162684 -1262.219
1.00000 -14.587454 -152.414867 -7.049561
-355.800531 -51.140861 -1341.303

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.955489 23.422281 1.330383
39.445367 3.641382 609.805136
0.25000 4.955489 23.435097 1.330383
39.403417 4.993178 588.070520
0.50000 4.955489 23.448805 1.330383
39.368137 6.404338 567.052148
0.75000 4.955489 23.463113 1.330383
39.334853 7.865140 546.744552
1.00000 4.955489 23.479201 1.330383
39.304153 9.369576 527.177670

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.542798 -18.329002 -4.523220
-118.397355 -53.485760 -349.208483
0.25000 -5.542798 -18.312981 -4.523220
-118.426194 -50.175506 -367.823927
0.50000 -5.542798 -18.298857 -4.523220
-118.458645 -47.521707 -386.439381
0.75000 -5.542798 -18.285436 -4.523220
-118.492574 -45.588097 -405.054834
1.00000 -5.542798 -18.272984 -4.523220
-118.533463 -44.369873 -423.677600

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.023750 56.011991 3.631400
66.656292 5.459260 1285.757
0.25000 8.023750 56.024801 3.631400
66.614421 6.804829 1238.276
0.50000 8.023750 56.038503 3.631400
66.579202 8.380848 1194.112
0.75000 8.023750 56.052806 3.631400
66.545978 10.373059 1153.130
1.00000 8.023750 56.068827 3.631400
66.515338 12.577859 1115.474

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.804357 -34.329172 -7.155421
-226.578688 -80.834928 -633.112596
0.25000 -12.804357 -34.313161 -7.155421
-226.607295 -76.166500 -670.780773
0.50000 -12.804357 -34.299043 -7.155421
-226.639688 -72.826728 -708.456368
0.75000 -12.804357 -34.285628 -7.155421
-226.673559 -71.118281 -746.131964
1.00000 -12.804357 -34.273182 -7.155421
-226.714327 -70.978218 -783.807560

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.118997 110.739729 3.188773
148.444688 10.497633 2221.262
0.25000 9.118997 110.751258 3.188773
148.417004 11.853264 2132.675
0.50000 9.118997 110.763590 3.188773
148.375307 13.442633 2057.232
0.75000 9.118997 110.776463 3.188773
148.345405 15.505596 1996.485
1.00000 9.118997 110.790932 3.188773
148.317830 17.935290 1949.827

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.622074 -54.119309 -6.848748
-319.218334 -68.919478 -882.115125
0.25000 -10.622074 -54.104900 -6.848748
-319.244080 -64.913512 -941.185491
0.50000 -10.622074 -54.092193 -6.848748
-319.273233 -61.920566 -1000.261
0.75000 -10.622074 -54.080120 -6.848748
-319.303718 -60.102183 -1059.336
1.00000 -10.622074 -54.068918 -6.848748
-319.340409 -59.342165 -1118.412

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.677507 206.230860 5.332000
347.245032 45.847770 3208.516
0.25000 14.677507 219.257880 5.332000
310.476102 45.401425 3125.978
0.50000 14.677507 233.219553 5.332000
282.270245 45.518157 3043.145
0.75000 14.677507 247.815986 5.332000
259.331862 46.764230 2961.106
1.00000 14.677507 263.824030 5.332000
234.650434 48.810983 2877.955

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.671165 -181.347505 -7.822138
-316.516365 -62.247874 -1008.494
0.25000 -13.671165 -165.416682 -7.822138
-327.026046 -59.472746 -1082.667
0.50000 -13.671165 -151.027299 -7.822138
-346.899342 -57.555784 -1156.845
0.75000 -13.671165 -137.382234 -7.822138
-374.018069 -56.625838 -1231.023
1.00000 -13.671165 -124.755329 -7.822138
-408.935942 -56.582481 -1305.201

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.562579 193.284629 8.131032
335.613786 90.022232 2248.912
0.25000 13.562579 212.573854 8.131032
344.222558 84.308398 2253.975
0.50000 13.562579 233.281127 8.131032
352.831173 79.238744 2225.578
0.75000 13.562579 254.929493 8.131032
360.963829 74.970597 2163.489
1.00000 13.562579 276.990329 8.131032
368.135050 71.419183 2068.727

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -22.058635 -213.072012 -2.406124
-129.810433 -19.493711 -824.868804
0.25000 -22.058635 -192.865472 -2.406124
-129.810433 -21.930976 -841.768578
0.50000 -22.058635 -173.177691 -2.406124
-129.810433 -24.385376 -858.897471
0.75000 -22.058635 -154.580863 -2.406124
-129.334318 -26.854401 -875.770413
1.00000 -22.058635 -137.567483 -2.406124
-127.896766 -29.381330 -892.774244

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.984936 311.037248 10.106964
466.985345 128.588461 3713.402
0.25000 26.984936 334.581742 10.106964
470.298723 123.229092 3678.320
0.50000 26.984936 359.785072 10.106964
473.612102 118.707921 3641.522
0.75000 26.984936 386.272831 10.106964
476.925480 115.145281 3520.932
1.00000 26.984936 413.300404 10.106964
480.229462 112.424831 3401.414

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -26.405353 -306.473284 -5.577893
-222.590054 -29.545289 -1467.237
0.25000 -26.405353 -281.621892 -5.577893
-222.590054 -31.638118 -1495.283
0.50000 -26.405353 -257.480856 -5.577893
-222.590054 -33.845332 -1523.616
0.75000 -26.405353 -234.716173 -5.577893
-222.590054 -36.127472 -1551.644
1.00000 -26.405353 -213.889878 -5.577893
-222.580851 -38.487260 -1579.780

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 24.098385 347.114814 9.607639
463.453448 116.168866 4451.123
0.25000 24.098385 368.734436 9.607639
465.849701 111.173570 4391.207
0.50000 24.098385 391.881629 9.607639
468.245954 107.045909 4303.470
0.75000 24.098385 416.212686 9.607639
470.642207 103.901213 4192.440
1.00000 24.098385 441.045655 9.607639
473.038612 101.635458 4055.449

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.498366 -309.856073 -5.598093
-312.165617 -35.594848 -1962.181
0.25000 -25.498366 -287.013576 -5.598093
-312.165617 -36.589653 -1994.809
0.50000 -25.498366 -264.829163 -5.598093
-312.165617 -38.031066 -2027.663
0.75000 -25.498366 -243.912584 -5.598093
-312.165617 -40.001824 -2060.263
1.00000 -25.498366 -224.779787 -5.598093
-312.165617 -42.353575 -2092.942

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 23.204183 322.343058 9.784178
410.221737 98.808829 4317.758
0.25000 23.204183 340.363996 9.784178
412.219123 94.880070 4252.268
0.50000 23.204183 359.658235 9.784178
414.216508 91.820046 4164.599
0.75000 23.204183 379.939277 9.784178
416.213894 89.869208 4056.542
1.00000 23.204183 400.638686 9.784178
418.211407 88.831172 3927.411

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -27.818818 -277.308769 -7.215227
-355.551067 -61.602238 -2093.320
0.25000 -27.818818 -258.268508 -7.215227
-355.551067 -61.445267 -2122.411
0.50000 -27.818818 -239.776791 -7.215227
-355.551067 -62.054399 -2151.699
0.75000 -27.818818 -222.341871 -7.215227
-355.551067 -63.524742 -2180.765
1.00000 -27.818818 -206.393815 -7.215227
-355.551067 -65.694111 -2209.912

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.199661 109.695244 1.169433
123.265270 28.206435 1518.805
0.25000 13.199661 109.702355 1.169433
123.245960 29.107424 1464.789
0.50000 13.199661 109.710082 1.169433
123.227451 30.202041 1418.983
0.75000 13.199661 109.718253 1.169433
123.210214 31.488511 1369.550
1.00000 13.199661 109.726697 1.169433
123.194698 33.344954 1372.533

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.412232 -64.010578 -2.944741
-137.549044 -9.803405 -732.106177
0.25000 -3.412232 -64.002667 -2.944741
-137.563253 -9.350985 -743.418013
0.50000 -3.412232 -63.995070 -2.944741
-137.579149 -8.785780 -754.767766
0.75000 -3.412232 -63.987958 -2.944741
-137.596269 -8.785780 -766.055210
1.00000 -3.412232 -63.981495 -2.944741
-137.614134 -8.617872 -777.377770

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.204980 172.032852 2.666374
157.265397 25.729864 2573.206
0.25000 12.204980 172.039963 2.666374
157.246080 26.289778 2490.906
0.50000 12.204980 172.047690 2.666374
157.227562 27.181291 2419.032
0.75000 12.204980 172.055863 2.666374
157.210318 28.522119 2362.391
1.00000 12.204980 172.064307 2.666374
157.194796 30.255823 2317.512

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.908342 -94.555174 -4.044799
-264.811792 -28.620840 -1395.913
0.25000 -8.908342 -94.547262 -4.044799
-264.826008 -27.476338 -1413.451
0.50000 -8.908342 -94.539664 -4.044799
-264.841912 -26.959353 -1430.996
0.75000 -8.908342 -94.532551 -4.044799
-264.859040 -26.942215 -1448.520
1.00000 -8.908342 -94.526088 -4.044799
-264.876914 -27.415350 -1466.054

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.217088 302.905025 7.239156
404.482516 85.881196 4037.077
0.25000 20.217088 321.825010 7.239156
370.184919 83.655332 3980.674
0.50000 20.217088 342.201177 7.239156
336.554958 81.908025 3898.980
0.75000 20.217088 363.696815 7.239156
305.382792 80.844134 3794.691
1.00000 20.217088 385.786990 7.239156
297.599187 80.429546 3666.658

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.651595 -266.085482 -5.795981
-278.932099 -39.124135 -1911.799
0.25000 -19.651595 -245.574306 -5.795981
-279.106189 -39.117358 -1940.832
0.50000 -19.651595 -225.784008 -5.795981
-299.841585 -39.511838 -1969.695
0.75000 -19.651595 -207.171317 -5.795981
-327.887254 -40.366792 -1998.544
1.00000 -19.651595 -190.217878 -5.795981
-356.724675 -41.575460 -2027.475

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.781726 281.964870 7.227285
365.735276 73.605462 3932.022
0.25000 20.781726 297.726583 7.227285
337.162902 72.372961 3871.334
0.50000 20.781726 314.701402 7.227285
309.146717 71.700150 3789.850
0.75000 20.781726 332.608820 7.227285
283.178052 71.697071 3689.649
1.00000 20.781726 351.611529 7.227285
276.693747 72.405288 3569.644

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -20.661856 -240.572733 -7.945099
-328.320511 -69.818443 -2061.564
0.25000 -20.661856 -223.485443 -7.945099
-328.465540 -67.767853 -2086.388
0.50000 -20.661856 -206.998697 -7.945099
-345.739622 -66.491378 -2111.079
0.75000 -20.661856 -191.492981 -7.945099
-369.103689 -65.880161 -2135.762
1.00000 -20.661856 -177.369543 -7.945099
-393.127342 -66.024574 -2160.515

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.994312 42.286293 1.521474
48.082268 4.904297 825.456403
0.25000 7.994312 42.293406 1.521474
48.062926 6.691089 806.578552
0.50000 7.994312 42.301135 1.521474
48.044386 8.619503 787.888432
0.75000 7.994312 42.309310 1.521474
48.027120 10.602019 769.494004
1.00000 7.994312 42.317757 1.521474
48.011579 12.808250 751.100123

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.815394 -28.732470 -5.548898
-145.970607 -61.397792 -716.724994
0.25000 -6.815394 -28.724556 -5.548898
-145.984644 -57.846207 -716.928796
0.50000 -6.815394 -28.716955 -5.548898
-146.000771 -54.698880 -717.125948
0.75000 -6.815394 -28.709840 -5.548898
-146.017925 -51.936203 -717.355369
1.00000 -6.815394 -28.703375 -5.548898
-146.035825 -49.664786 -717.595391

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.739568 91.191291 4.075525
78.625098 7.902839 1668.929
0.25000 10.739568 91.198399 4.075525
78.605820 9.925964 1627.195
0.50000 10.739568 91.206123 4.075525
78.587341 12.207715 1587.056
0.75000 10.739568 91.214291 4.075525
78.570131 14.861053 1547.676
1.00000 10.739568 91.222731 4.075525
78.554643 17.987290 1508.756

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.869032 -54.674513 -8.107326
-264.195531 -93.078536 -1287.557
0.25000 -15.869032 -54.666605 -8.107326
-264.209711 -89.090541 -1297.493
0.50000 -15.869032 -54.659010 -8.107326
-264.225575 -85.971236 -1304.172
0.75000 -15.869032 -54.651902 -8.107326
-264.242663 -83.076439 -1317.882
1.00000 -15.869032 -54.645441 -8.107326
-264.260493 -83.076439 -1317.616

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.496543 159.927202 3.367487
140.427513 15.430546 2705.604
0.25000 13.496543 160.003979 3.367487
140.219228 17.345694 2632.005
0.50000 13.496543 160.087402 3.367487
140.019571 19.609684 2562.657
0.75000 13.496543 160.175632 3.367487
139.833633 22.283364 2498.175
1.00000 13.496543 160.266794 3.367487
139.666292 25.480384 2438.798

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.550865 -89.457205 -7.899414
-346.213036 -84.748676 -1787.097
0.25000 -13.550865 -89.317982 -7.899414
-346.366252 -80.556980 -1799.495
0.50000 -13.550865 -89.289765 -7.899414
-346.537674 -77.096631 -1811.845
0.75000 -13.550865 -89.212982 -7.899414
-346.722309 -74.468239 -1824.301
1.00000 -13.550865 -89.143201 -7.899414
-346.914971 -72.639625 -1836.908

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.206567 248.485163 5.723332
335.456997 56.635728 3601.297
0.25000 22.206567 259.840499 5.723332
309.155532 57.425274 3540.975
0.50000 22.206567 272.155257 5.723332
283.837081 58.697995 3461.640
0.75000 22.206567 285.153118 5.723332
260.303172 60.447340 3372.088
1.00000 22.206567 298.550723 5.723332
239.280040 62.842297 3270.775

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.988083 -200.121332 -9.065910
-347.710467 -80.487934 -2033.953
0.25000 -17.988083 -187.621579 -9.065910
-366.111167 -77.153595 -2054.706
0.50000 -17.988083 -175.588342 -9.065910
-386.977954 -74.493677 -2075.368
0.75000 -17.988083 -164.306488 -9.065910

```
-409.534979  -72.581452   -2096.020
 1.00000   -17.988083  -154.031010   -9.065910
-432.996859   -71.390643   -2124.507

 COMB      DB ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    21.001784   324.436092     8.538045
472.651283  111.786172    4259.297
 0.25000    21.001784   350.820106     8.538045
472.651283  105.829853    4189.559
 0.50000    21.001784   379.262586     8.538045
472.651283  101.365298    4105.438
 0.75000    21.001784   409.134046     8.538045
472.651283   98.541708    4008.470
 1.00000    21.001784   439.524037     8.538045
472.651283   97.542517    3892.967

 COMB      DB ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -16.780271  -337.037370    -7.822138
-319.218334   -80.834928    -1044.271
 0.25000   -16.780271  -304.228049    -7.822138
-327.026046   -76.166500    -1128.905
 0.50000   -16.780271  -272.265159    -7.822138
-346.899342   -72.826728    -1213.543
 0.75000   -16.780271  -242.141337    -7.822138
-374.018069   -71.118281    -1298.181
 1.00000   -16.780271  -214.484174    -7.822138
-408.335942   -70.978218    -1382.819
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        506

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    26.984936   347.114814    10.106964
466.985345  128.588461    4451.123
 0.25000    26.984936   368.734436    10.106964
470.298723  123.229092    4391.207
 0.50000    26.984936   391.881629    10.106964
473.612102  118.707921    4303.470
 0.75000    26.984936   416.212686    10.106964
476.925480  115.145281    4192.440
 1.00000    26.984936   441.045655    10.106964
480.229462  112.424831    4055.449

 COMB      DL ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -27.818818  -309.856073    -9.065910
-355.551067   -93.078536    -2093.320
 0.25000   -27.818818  -287.013576    -9.065910
-366.111167   -89.090541    -2122.411
 0.50000   -27.818818  -264.829163    -9.065910
-386.977954   -85.971236    -2151.699
 0.75000   -27.818818  -243.912584    -9.065910
-409.534979   -84.070092    -2180.765
 1.00000   -27.818818  -224.779787    -9.065910
-432.996859   -83.076439    -2209.912

 COMB      CAR ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    26.984936   347.114814    10.106964
472.651283  128.588461    4451.123
 0.25000    26.984936   368.734436    10.106964
472.651283  123.229092    4391.207
 0.50000    26.984936   391.881629    10.106964
473.612102  118.707921    4303.470
 0.75000    26.984936   416.212686    10.106964
476.925480  115.145281    4192.440
 1.00000    26.984936   441.045655    10.106964
480.229462  112.424831    4055.449

 COMB      CAR ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -27.818818  -337.037370    -9.065910
-355.551067   -93.078536    -2093.320
 0.25000   -27.818818  -304.228049    -9.065910
-366.111167   -89.090541    -2122.411
 0.50000   -27.818818  -272.265159    -9.065910
-386.977954   -85.971236    -2151.699
 0.75000   -27.818818  -243.912584    -9.065910
-409.534979   -84.070092    -2180.765
 1.00000   -27.818818  -224.779787    -9.065910
-432.996859   -83.076439    -2209.912

 COMB    DESIGN ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    26.984936   347.114814    10.106964
472.651283  128.588461    4451.123
 0.25000    26.984936   368.734436    10.106964
472.651283  123.229092    4391.207
 0.50000    26.984936   391.881629    10.106964
473.612102  118.707921    4303.470
 0.75000    26.984936   416.212686    10.106964
476.925480  115.145281    4192.440
 1.00000    26.984936   441.045655    10.106964
480.229462  112.424831    4055.449

 COMB    DESIGN ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -27.818818  -337.037370    -9.065910
-355.551067   -93.078536    -2093.320
 0.25000   -27.818818  -304.228049    -9.065910
-366.111167   -89.090541    -2122.411
 0.50000   -27.818818  -272.265159    -9.065910
-386.977954   -85.971236    -2151.699
 0.75000   -27.818818  -243.912584    -9.065910
-409.534979   -84.070092    -2180.765
 1.00000   -27.818818  -224.779787    -9.065910
-432.996859   -83.076439    -2209.912
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        507

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        17 ================== LENGTH
=     4.987214

 COMB DB-G1-1 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    11.124685   232.082990     8.278227
454.230515   68.105124    2124.753
 0.25000    11.124685   254.911105     8.278227
454.230515   60.441316    2088.112
 0.50000    11.124685   279.453486     8.278227
454.230515   53.902207    2022.509
 0.75000    11.124685   305.151397     8.278227
454.230515   48.330579    1924.520
 1.00000    11.124685   330.520195     8.278227
454.230515   43.969801    1794.187

 COMB DB-G1-1 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -11.144201  -212.731062    -0.614930
-52.707433   -21.156473  -572.055996
 0.25000   -11.144201  -187.634349    -0.614930
-52.707433   -24.757720  -620.819793
 0.50000   -11.144201  -162.599294    -0.614930
-52.707433   -28.360545  -669.583616
 0.75000   -11.144201  -139.086632    -0.614930
-52.707433   -31.966203  -718.382053
 1.00000   -11.144201  -117.592387    -0.614930
-52.707433   -35.572519  -767.262733

 COMB DB-G1-2 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    21.625045   360.459158    10.464283
583.825624   98.373512    3428.927
 0.25000    21.625045   389.213835    10.464283
583.825624   91.345135    3311.437
 0.50000    21.625045   420.018795    10.464283
583.825624   87.290897    3175.704
 0.75000    21.625045   452.213031    10.464283
583.825624   85.233787    3023.431
 1.00000    21.625045   484.819629    10.464283
583.825624   84.564401    2846.900

 COMB DB-G1-2 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -15.228568  -287.017172    -3.776901
-145.503671   -27.255704    -1007.559
 0.25000   -15.228568  -254.706470    -3.776901
-145.503671   -31.139341    -1088.460
 0.50000   -15.228568  -223.273579    -3.776901
-145.503671   -35.060116    -1169.361
 0.75000   -15.228568  -193.719366    -3.776901
-145.503671   -39.041381    -1250.319
 1.00000   -15.228568  -166.630920    -3.776901
-145.503671   -43.035074    -1331.361

 COMB DB-G1-3 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    18.338384   389.100760     9.585167
536.642180   88.858606    3892.189
 0.25000    18.338384   415.500382     9.585167
536.642180   81.808555    3726.378
 0.50000    18.338384   443.776619     9.585167
536.642180   77.192080    3545.156
 0.75000    18.338384   473.322929     9.585167
536.642180   74.466928    3353.008
 1.00000    18.338384   503.310760     9.585167
536.642180   73.296678    3145.177

 COMB DB-G1-3 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -15.144260  -275.699356    -3.678125
-269.511708   -26.455621    -1309.652
 0.25000   -15.144260  -245.979692    -3.678125
-269.511708   -29.125073    -1405.167
 0.50000   -15.144260  -217.127000    -3.678125
-269.511708   -32.290721    -1500.681
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        508

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST              P              V2             V3
        T              M2             M3
 0.75000   -15.144260  -189.995733    -3.678125
-269.511708   -35.495842    -1596.249
 1.00000   -15.144260  -165.124808    -3.678125
-269.511708   -38.778939    -1691.892

 COMB DB-G1-4 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    18.440469   355.071603     9.871855
468.053525   76.754087    3659.882
 0.25000    18.440469   377.081835     9.871855
468.053525   71.695717    3488.927
 0.50000    18.440469   400.656491     9.871855
468.053525   68.733337    3306.131
 0.75000    18.440469   425.289888     9.871855
468.053525   67.408572    3115.404
 1.00000    18.440469   450.293264     9.871855
468.053525   67.493537    2912.696

 COMB DB-G1-4 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -17.513155  -242.364207    -5.978701
-352.027869   -49.314432    -1778.778
 0.25000   -17.513155  -217.584307    -5.978701
-352.027869   -50.247095    -1472.505
 0.50000   -17.513155  -193.529042    -5.978701
-352.027869   -52.082016    -1562.294
 0.75000   -17.513155  -170.908886    -5.978701
-352.027869   -55.350945    -1652.161
 1.00000   -17.513155  -150.173148    -5.978701
-352.027869   -59.165459    -1742.091

 COMB DB-G2-1 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    10.317759   114.422174     1.157944
120.654311   21.364785    1281.686
 0.25000    10.317759   114.435033     1.157944
120.611892   23.415972    1174.013
 0.50000    10.317759   114.448662     1.157944
120.575986   26.961753    1089.997
 0.75000    10.317759   114.462785     1.157944
120.542159   31.031051    1023.668
 1.00000    10.317759   114.478627     1.157944
120.510935   35.083910    997.565634

 COMB DB-G2-1 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -2.621036   -32.841849    -3.446061
-137.634437   -4.796389   -492.876255
 0.25000   -2.621036   -32.826054    -3.446061
-137.656743   -4.794417   -526.382603
 0.50000   -2.621036   -32.812137    -3.446061
-137.680095   -4.807734   -559.894781
 0.75000   -2.621036   -32.798984    -3.446061
-137.720224   -4.917898   -593.407739
 1.00000   -2.621036   -32.786845    -3.446061
-137.760219   -5.011498   -626.920697

 COMB DB-G2-2 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    9.349721   173.108147     2.702574
128.145400   20.673130    2023.516
 0.25000    9.349721   173.121005     2.702574
128.102980   21.589417    1857.599
 0.50000    9.349721   173.134634     2.702574
128.067074   24.064979    1715.398
 0.75000    9.349721   173.148758     2.702574
128.033247   27.315504    1605.644
 1.00000    9.349721   173.164600     2.702574
128.002023   31.031768    1523.100

 COMB DB-G2-2 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -7.509264   -49.653813    -4.660565
-301.073950   -17.855631   -909.815782
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        509

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST              P              V2             V3
        T              M2             M3
 0.25000   -7.509264   -49.638017    -4.660565
-301.096256   -17.143777   -963.916716
 0.50000   -7.509264   -49.624101    -4.660565
-301.125608   -17.027685    -1018.018
 0.75000   -7.509264   -49.610948    -4.660565
-301.159737   -18.145842    -1072.119
 1.00000   -7.509264   -49.598808    -4.660565
-301.199732   -19.487859    -1126.220

 COMB DB-G2-3 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   15.252185   333.999527     7.626478
422.972184   66.920593    3438.291
 0.25000   15.252185   356.229388     7.626478
395.741361   63.363547    3277.832
 0.50000   15.252185   379.920589     7.626478
365.949844   61.666753    3104.833
 0.75000   15.252185   404.577622     7.626478
337.171342   61.790317    2923.397
 1.00000   15.252185   430.854918     7.626478
337.171342   63.340888    2728.961

 COMB DB-G2-3 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -14.369116  -228.228675    -5.604071
-303.179057   -28.773412    -1271.248
 0.25000   -14.369116  -202.107636    -5.604071
-303.179057   -29.964799    -1357.343
 0.50000   -14.369116  -177.925794    -5.604071
-303.179057   -31.702496    -1443.438
 0.75000   -14.369116  -155.131431    -5.604071
-303.179057   -34.556029    -1529.598
 1.00000   -14.369116  -134.167577    -5.604071
-326.781537   -37.611911    -1615.792

 COMB DB-G2-4 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   16.054215   303.921215     7.066396
377.316909   59.965568    3231.061
 0.25000   16.054215   322.437177     7.066396
354.635383   58.187045    3069.249
 0.50000   16.054215   342.170426     7.066396
329.520863   57.982392    2897.366
 0.75000   16.054215   362.708150     7.066396
305.850320   59.303841    2719.238
 1.00000   16.054215   384.595450     7.066396
305.850320   61.807329    2531.412

 COMB DB-G2-4 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -15.305190  -202.495207    -8.093386
-378.052889   -52.844351    -1341.299
 0.25000   -15.305190  -180.738060    -8.093386
-378.052889   -51.237128    -1420.613
 0.50000   -15.305190  -160.596139    -8.093386
-378.052889   -50.553977    -1500.073
 0.75000   -15.305190  -141.609899    -8.093386
-378.052889   -51.295058    -1579.591
 1.00000   -15.305190  -124.148356    -8.093386
-397.712238   -52.802584    -1659.136

 COMB DB-G3-1 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    5.472811   36.191008     0.409283
41.691633   10.298755   527.905209
 0.25000    5.472811   36.203872     0.409283
41.649135   12.445595   488.105666
 0.50000    5.472811   36.217507     0.409283
41.613168   14.682964   449.113656
 0.75000    5.472811   36.231636     0.409283
41.579281   16.980101   411.275280
 1.00000    5.472811   36.247489     0.409283
41.547998   19.336927   374.585762
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        510

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -5.968680   -18.796482    -5.727673
-190.327864   -45.711413   -423.735233
 0.25000   -5.968680   -18.780677    -5.727673
-190.350212   -40.724048   -433.532917
 0.50000   -5.968680   -18.766754    -5.727673
-190.379844   -36.403381   -443.408549
 0.75000   -5.968680   -18.753595    -5.727673
-190.414030   -33.017736   -453.286232
 1.00000   -5.968680   -18.741450    -5.727673
-190.454099   -30.213577   -463.315742

 COMB DB-G3-2 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    8.834567   82.360368     3.184846
61.963807   13.380964    1116.658
 0.25000    8.834567   82.373226     3.184846
61.921388   16.143537    1030.006
 0.50000    8.834567   82.386856     3.184846
61.885482   19.224615   946.491400
 0.75000    8.834567   82.400979     3.184846
61.851655   22.524695   866.966724
 1.00000    8.834567   82.416821     3.184846
61.820431   26.085886   791.759862

 COMB DB-G3-2 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -13.295077  -34.613658    -8.669637
-340.971449   -73.144844   -783.877447
 0.25000   -13.295077  -34.597883    -8.669637
-340.993756   -67.069048   -809.334213
 0.50000   -13.295077  -34.583946    -8.669637
-341.023107   -63.685217   -834.919672
 0.75000   -13.295077  -34.570793    -8.669637
-341.057236   -62.813732   -860.505183
 1.00000   -13.295077  -34.558654    -8.669637
-341.097231   -63.021718   -886.182329

 COMB DB-G3-3 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    9.691713   152.755180     2.052115
102.887495   18.138626    1951.107
 0.25000    9.691713   152.766753     2.052115
102.849318   20.699032    1797.382
 0.50000    9.691713   152.779019     2.052115
102.817003   23.673493    1655.914
 0.75000    9.691713   152.791730     2.052115
102.786558   27.022420    1530.271
 1.00000    9.691713   152.805988     2.052115
102.758456   30.811582    1420.242

 COMB DB-G3-3 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -11.265575  -48.743185    -8.408992
-431.524358   -60.872571    -1118.472
 0.25000   -11.265575  -48.728969    -8.408992
-431.544434   -55.253462    -1167.471
 0.50000   -11.265575  -48.716444    -8.408992
-431.570850   -50.867114    -1216.592
 0.75000   -11.265575  -48.704606    -8.408992
-431.601567   -48.328759    -1265.712
 1.00000   -11.265575  -48.693681    -8.408992
-431.637562   -46.761786    -1314.909

 COMB DB-G3-4 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   15.337571   260.774581     4.864073
338.811124   49.228049    2878.792
 0.25000   15.337571   273.840148     4.864073
301.540016   49.787773    2713.964
 0.50000   15.337571   287.725780     4.864073
275.902783   51.941779    2547.738
 0.75000   15.337571   302.145447     4.864073
252.756984   55.462944    2385.175
 1.00000   15.337571   317.924416     4.864073
227.848660   59.693618    2222.042
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        511

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -14.367301  -158.024948    -9.729128
-407.365166   -58.306935    -1305.227
 0.25000   -14.367301  -142.315137    -9.729128
-407.357448   -54.491786    -1375.549
 0.50000   -14.367301  -128.139186    -9.729128
-424.034919   -51.708621    -1445.972
 0.75000   -14.367301  -114.758698    -9.729128
-443.777718   -50.467017    -1516.440
 1.00000   -14.367301  -102.430210    -9.729128
-472.986827   -50.035614    -1586.980

 COMB DL-G1-1 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   14.275886   234.955144    11.368597
468.776617   72.444915    2067.333
 0.25000   14.275886   255.243444    11.368597
477.383396   63.619792    2012.865
 0.50000   14.275886   276.852672    11.368597
485.988616   55.828355    1925.372
 0.75000   14.275886   299.426858    11.368597
494.596954   49.603336    1804.120
 1.00000   14.275886   322.378738    11.368597
503.203733   45.022493    1650.020

 COMB DL-G1-1 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -22.562924  -184.716410    -1.062033
-82.994254   -30.959065   -892.450594
 0.25000   -22.562924  -165.753273    -1.062033
-82.994254   -35.705832   -921.431053
 0.50000   -22.562924  -147.385983    -1.062033
-82.994254   -41.139944   -950.354011
 0.75000   -22.562924  -130.135268    -1.062033
-82.994254   -47.406717   -983.647645
 1.00000   -22.562924  -114.396071    -1.062033
-82.994254   -54.551848    -1021.010

 COMB DL-G1-2 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   27.801556   381.170854    13.485708
607.412924   113.507009    3399.851
 0.25000   27.801556   405.839828    13.485708
610.725536   106.124227    3264.300
 0.50000   27.801556   432.140380    13.485708
614.038147   101.085375    3095.503
 0.75000   27.801556   459.644888    13.485708
617.350759   97.766085    2903.516
 1.00000   27.801556   487.685059    13.485708
620.663370   96.298547    2682.784

 COMB DL-G1-2 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -26.978145  -260.834642    -4.978017
-182.790313   -40.291173    -1579.339
 0.25000   -26.978145  -237.430285    -4.978017
-182.790313   -44.764221    -1624.438
 0.50000   -26.978145  -214.852990    -4.978017
-182.790313   -50.012599    -1669.413
 0.75000   -26.978145  -193.657395    -4.978017
-182.790313   -56.214468    -1715.089
 1.00000   -26.978145  -174.371804    -4.978017
-182.790313   -63.607530    -1780.757

 COMB DL-G1-3 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   24.891156   432.720552    12.430693
557.400526   101.874729    4054.499
 0.25000   24.891156   455.369492    12.430693
559.796224   94.569732    3868.604
 0.50000   24.891156   479.519411    12.430693
562.191922   89.453934    3652.999
 0.75000   24.891156   504.778153    12.430693
564.587621   86.153869    3414.865
 1.00000   24.891156   530.534375    12.430693
566.983319   84.839366    3150.744
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        512

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -25.980316  -262.195538    -5.215048
-314.623547   -43.955237    -2092.563
 0.25000   -25.980316  -240.676643    -5.215048
-314.623547   -46.540658    -2139.276
 0.50000   -25.980316  -219.922058    -5.215048
-314.623547   -50.281530    -2185.982
 0.75000   -25.980316  -200.442932    -5.215048
-314.623547   -55.433450    -2238.996
 1.00000   -25.980316  -182.722333    -5.215048
-314.623547   -61.967771    -2305.077

 COMB DL-G1-4 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   24.213124   405.252376    12.135489
490.928326   89.343673    3927.163
 0.25000   24.213124   424.131297    12.135489
492.925250   84.313479    3737.732
 0.50000   24.213124   444.261353    12.135489
494.922173   81.260711    3523.886
 0.75000   24.213124   465.315664    12.135489
496.919096   80.014350    3291.823
 1.00000   24.213124   486.784646    12.135489
498.916020   80.667375    3038.549

 COMB DL-G1-4 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -28.417914  -236.922694    -7.569520
-412.754976   -67.682755    -2209.725
 0.25000   -28.417914  -218.984883    -7.569520
-412.754976   -68.548562    -2245.414
 0.50000   -28.417914  -201.685826    -7.569520
-412.754976   -70.862539    -2281.113
 0.75000   -28.417914  -185.449088    -7.569520
```

```
-412.754976  -75.136232   -2322.103
 1.00000   -28.417914  -170.678163    -7.569520
-412.754976   -81.105094    -2376.996

 COMB DL-G2-1 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   13.198137   139.917987     1.185195
 98.077451    33.097558    1372.621
 0.25000   13.198137   139.925422     1.185195
 98.057392    36.096206    1274.465
 0.50000   13.198137   139.933394     1.185195
 98.038331    39.923882    1181.739
 0.75000   13.198137   139.941776     1.185195
 98.020706    43.804153    1105.533
 1.00000   13.198137   139.950395     1.185195
 98.004862    47.822339    1041.633

 COMB DL-G2-1 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -3.330710   -47.576046    -4.128241
-142.760423   -8.553801   -777.299990
 0.25000   -3.330710   -47.568474    -4.128241
-142.774391   -8.131482   -791.778838
 0.50000   -3.330710   -47.561265    -4.128241
-142.789893   -7.776185   -806.235751
 0.75000   -3.330710   -47.554572    -4.128241
-142.806442   -7.483930   -822.654681
 1.00000   -3.330710   -47.548535    -4.128241
-142.823630   -7.337365   -844.280555

 COMB DL-G2-2 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   12.348056   223.865653     2.650700
 107.115291    29.222174    2318.227
 0.25000   12.348056   223.873089     2.650700
 107.095224    30.846114    2157.338
 0.50000   12.348056   223.881061     2.650700
 107.076156    33.614268    2003.871
 0.75000   12.348056   223.889444     2.650700
 107.058524    36.945509    1866.827
 1.00000   12.348056   223.898064     2.650700
 107.042674    40.815337    1741.913
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    513

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -8.964382   -74.531368    -5.283638
-325.002507   -27.539091    -1466.043
 0.25000   -8.964382   -74.523796    -5.283638
-325.016476   -25.801078    -1483.592
 0.50000   -8.964382   -74.516586    -5.283638
-325.031987   -24.892064    -1501.089
 0.75000   -8.964382   -74.509892    -5.283638
-325.048544   -25.068086    -1520.567
 1.00000   -8.964382   -74.503855    -5.283638
-325.065741   -25.839733    -1551.208

 COMB DL-G2-3 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   20.825606   381.289400     8.802563
 453.066620    80.026477    3666.469
 0.25000   20.825606   401.048730     8.802563
 418.115364    76.889949    3493.537
 0.50000   20.825606   422.196366     8.802563
 382.437475    75.305636    3293.092
 0.75000   20.825606   444.374829     8.802563
 350.267898    75.089041    3070.951
 1.00000   20.825606   467.092487     8.802563
 342.616536    76.271724    2825.493

 COMB DL-G2-3 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -20.038896   -226.148607    -6.387476
-340.206415    -42.586377    -2027.244
 0.25000   -20.038896   -206.680693    -6.387476
-340.215056    -42.864878    -2064.693
 0.50000   -20.038896   -188.026037    -6.387476
-340.415751    -44.406246    -2102.189
 0.75000   -20.038896   -170.617488    -6.387476
-361.249415    -47.136171    -2144.682
 1.00000   -20.038896   -154.839002    -6.387476
-387.779919    -51.386474    -2200.601

 COMB DL-G2-4 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   21.683329   356.479853     8.067621
 413.315773    72.786512    3570.061
 0.25000   21.683329   372.940801     8.067621
 384.198853    71.691929    3395.667
 0.50000   21.683329   390.558309     8.067621
 354.476597    72.061160    3198.559
 0.75000   21.683329   409.034569     8.067621
 327.677017    73.896349    2983.692
 1.00000   21.683329   427.960019     8.067621
 321.302880    77.262271    2749.671

 COMB DL-G2-4 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -21.321493   -207.078485    -9.546518
-437.827378    -67.823261    -2160.498
 0.25000   -21.321493   -190.860307    -9.546518
-437.834576    -64.916198    -2185.569
 0.50000   -21.321493   -175.319632    -9.546518
-438.001770    -63.551451    -2210.702
 0.75000   -21.321493   -160.817054    -9.546518
-455.357716    -63.865317    -2240.033
 1.00000   -21.321493   -147.672436    -9.546518
-477.459541    -65.694749    -2283.149

 COMB DL-G3-1 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    8.626698    53.918455     0.623768
 63.596582    13.869304    751.979330
 0.25000    8.626698    53.925893     0.623768
 63.576491    17.081254    710.169276
 0.50000    8.626698    53.933867     0.623768
 63.557402    20.713398    668.438999
 0.75000    8.626698    53.942252     0.623768
 63.539749    24.887196    627.208866
 1.00000    8.626698    53.950874     0.623768
 63.523881    29.690401    586.145961
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    514

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -7.354403   -28.524748    -7.748405
-235.564245   -51.075029   -717.898028
 0.25000   -7.354403   -28.517172    -7.748405
-235.578238   -45.241931   -706.507998
 0.50000   -7.354403   -28.509961    -7.748405
-235.593773   -40.114413   -695.181812
 0.75000   -7.354403   -28.503265    -7.748405
-235.610356   -35.824002   -684.164305
 1.00000   -7.354403   -28.497226    -7.748405
-235.627579   -32.449146   -676.302497

 COMB DL-G3-2 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   11.754219   120.012080     3.472766
 86.171616    18.942401    1510.236
 0.25000   11.754219   120.019513     3.472766
 86.151588    22.964132    1418.015
 0.50000   11.754219   120.027482     3.472766
 86.132556    27.621918    1327.118
 0.75000   11.754219   120.035861     3.472766
 86.114957    33.110383    1238.549
 1.00000   11.754219   120.044477     3.472766
 86.099138    39.496445    1150.817

 COMB DL-G3-2 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -16.605562   -52.220329   -10.699855
-412.786006    -84.978300    -1318.012
 0.25000  -16.605562   -52.212760   -10.699855
-412.799943    -78.928270    -1308.817
 0.50000  -16.605562   -52.205555   -10.699855
-412.815413    -74.607149    -1299.718
 0.75000  -16.605562   -52.198865   -10.699855
-412.831928    -72.102017    -1290.643
 1.00000  -16.605562   -52.192830   -10.699855
-412.849080    -71.045879    -1288.243

 COMB DL-G3-3 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   14.267348   209.972777     2.365339
 114.142700    25.635291    2440.393
 0.25000   14.267348   210.053061     2.365339
 113.926311    29.665219    2285.332
 0.50000   14.267348   210.139130     2.365339
 113.720691    34.535270    2132.156
 0.75000   14.267348   210.229634     2.365339
 113.530549    40.277857    1984.677
 1.00000   14.267348   210.322696     2.365339
 113.359638    46.925612    1842.805

 COMB DL-G3-3 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -14.133661   -76.420144   -10.706340
-497.051375    -73.884982    -1837.237
 0.25000  -14.133661   -76.338399   -10.706340
-497.201978    -67.219168    -1836.453
 0.50000  -14.133661   -76.260569   -10.706340
-497.369141    -61.871762    -1835.764
 0.75000  -14.133661   -76.188306   -10.706340
-497.547594    -58.119656    -1836.124
 1.00000  -14.133661   -76.123132   -10.706340
-497.732933    -55.628491    -1848.972

 COMB DL-G3-4 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   23.016860   315.536680     5.601767
 354.795021    63.219726    3271.672
 0.25000   23.016860   327.413968     5.601767
 327.062389    65.498479    3100.802
 0.50000   23.016860   340.140748     5.601767
 300.579806    69.166360    2914.570
 0.75000   23.016860   353.506493     5.601767
 276.080696    74.064893    2719.187
 1.00000   23.016860   367.228676     5.601767
 254.184396    80.445409    2512.598
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    515

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -18.653165   -172.457371   -11.829998
-471.068777    -72.904745    -2124.664
 0.25000  -18.653165   -160.533078   -11.829998
-481.416066    -67.896445    -2146.385
 0.50000  -18.653165   -149.156563   -11.829998
-501.331608    -64.108530    -2168.175
 0.75000  -18.653165   -138.564323   -11.829998
-522.755953    -62.656519    -2191.384
 1.00000  -18.653165   -128.984909   -11.829998
-544.975492    -61.451267    -2258.607

 COMB      DB ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   21.625045   389.100760    10.464283
 583.825624    98.373512    3892.189
 0.25000   21.625045   415.500382    10.464283
 583.825624    91.345135    3726.378
 0.50000   21.625045   443.776619    10.464283
 583.825624    87.290897    3545.156
 0.75000   21.625045   473.322929    10.464283
 583.825624    85.233787    3353.008
 1.00000   21.625045   503.310760    10.464283
 583.825624    84.564401    3145.177

 COMB      DB ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -17.513155   -287.017172    -9.729128
-431.524358    -73.144844    -1382.778
 0.25000  -17.513155   -254.706470    -9.729128
-431.544434    -67.069048    -1472.505
 0.50000  -17.513155   -223.273579    -9.729128
-431.570850    -63.685211    -1562.294
 0.75000  -17.513155   -193.719366    -9.729128
-443.777718    -62.813732    -1652.161
 1.00000  -17.513155   -166.630920    -9.729128
-472.986827    -63.021718    -1742.091

 COMB      DL ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   27.801556   432.720552    13.485708
 607.412924   113.507009    4054.499
 0.25000   27.801556   455.369492    13.485708
 610.725536   106.124227    3868.604
 0.50000   27.801556   479.519411    13.485708
 614.038147   101.085375    3652.999
 0.75000   27.801556   504.778153    13.485708
 617.350759    97.766085    3414.865
 1.00000   27.801556   530.534375    13.485708
 620.663370    96.298547    3150.744

 COMB      DL ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -28.417914   -262.195538   -11.829998
-497.051375    -84.978300    -2209.725
 0.25000  -28.417914   -240.675643   -11.829998
-497.201978    -78.928270    -2245.414
 0.50000  -28.417914   -219.922058   -11.829998
-501.331608    -74.607149    -2281.113
 0.75000  -28.417914   -200.442932   -11.829998
-522.755953    -75.136232    -2322.103
 1.00000  -28.417914   -182.722333   -11.829998
-544.975492    -81.105094    -2376.996

 COMB      CAR ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   27.801556   432.720552    13.485708
 607.412924   113.507009    4054.499
 0.25000   27.801556   455.369492    13.485708
 610.725536   106.124227    3868.604
 0.50000   27.801556   479.519411    13.485708
 614.038147   101.085375    3652.999
 0.75000   27.801556   504.778153    13.485708
 617.350759    97.766085    3414.865
 1.00000   27.801556   530.534375    13.485708
 620.663370    96.298547    3150.744

 COMB      CAR ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -28.417914   -287.017172   -11.829998
-497.051375    -84.978300    -2209.725
 0.25000  -28.417914   -254.706470   -11.829998
-497.201978    -78.928270    -2245.414
 0.50000  -28.417914   -223.273579   -11.829998
-501.331608    -74.607149    -2281.113
 0.75000  -28.417914   -200.442932   -11.829998
-522.755953    -75.136232    -2322.103
 1.00000  -28.417914   -182.722333   -11.829998
-544.975492    -81.105094    -2376.996

 ELEM      18 ================== LENGTH
 =     4.988092

 COMB DB-G1-1 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   11.660411   275.193691     8.249495
 531.209357    44.614309    1792.473
 0.25000   11.660411   298.347625     8.249495
 531.209357    36.612069    1697.642
 0.50000   11.660411   323.017686     8.249495
 531.209357    29.679637    1573.208
 0.75000   11.660411   348.658751     8.249495
 531.209357    23.676652    1416.524
 1.00000   11.660411   373.781855     8.249495
 531.209357    18.677434    1228.303

 COMB DB-G1-1 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -11.401810   -170.065905    -0.388815
-75.552332   -36.783458   -766.976231
 0.25000  -11.401810   -145.469516    -0.388815
-75.552332   -39.601668   -834.263652
 0.50000  -11.401810   -121.066709    -0.388815
-75.552332   -42.450565   -901.551489
 0.75000  -11.401810   -98.274536    -0.388815
-75.552332   -45.309230   -969.117211
 1.00000  -11.401810   -77.506719    -0.388815
-75.552332   -48.172391    -1036.884

 COMB DB-G1-2 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   22.208131   427.486510    10.821786
 645.052234    85.399975    2845.184
 0.25000   22.208131   456.542972    10.821786
 645.052234    77.250508    2636.170
 0.50000   22.208131   487.434486    10.821786
 645.052234    70.462833    2408.193
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    517

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST            P            V2           V3
      T           M2           M3
 0.75000   22.208131   519.513670    10.821786
 645.052234    64.546798    2164.651
 1.00000   22.208131   551.764225    10.821786
 645.052234    60.133129    1900.381

 COMB DB-G1-2 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -15.428123   -227.041135    -1.097750
-176.087650    -44.406406    -1330.988
 0.25000  -15.428123   -195.400830    -1.097750
-176.087650    -48.024518    -1435.553
 0.50000  -15.428123   -164.774498    -1.097750
-176.087650    -51.270131    -1540.136
 0.75000  -15.428123   -136.110777    -1.097750
-176.087650    -55.329713    -1644.982
 1.00000  -15.428123   -109.897481    -1.097750
-176.087650    -58.994178    -1750.124

 COMB DB-G1-3 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   18.881838   463.923622     9.641393
 560.984879    73.093038    3144.170
 0.25000   18.881838   490.592372     9.641393
 560.984879    65.535891    2877.055
 0.50000   18.881838   518.942571     9.641393
 560.984879    59.169832    2594.120
 0.75000   18.881838   548.379972     9.641393
 560.984879    54.164993    2302.005
 1.00000   18.881838   578.037519     9.641393
 560.984879    50.605741    1999.376

 COMB DB-G1-3 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -15.626780   -223.268860    -2.010050
-320.127418    -40.854444    -1691.580
 0.25000  -15.626780   -194.167786    -2.010050
-320.127418    -43.400102    -1804.863
 0.50000  -15.626780   -166.056367    -2.010050
-320.127418    -46.538628    -1918.157
 0.75000  -15.626780   -139.741462    -2.010050
-320.127418    -49.937804    -2031.681
 1.00000  -15.626780   -115.670983    -2.010050
-320.127418    -53.451646    -2145.479

 COMB DB-G1-4 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   19.207300   424.090906     8.386823
 491.768981    67.580614    2912.570
 0.25000   19.207300   446.325283     8.386823
 491.768981    62.347384    2647.765
 0.50000   19.207300   469.961441     8.386823
 491.768981    58.149337    2371.910
 0.75000   19.207300   494.503940     8.386823
 491.768981    55.148967    2090.871
 1.00000   19.207300   519.231845     8.386823
 491.768981    53.441318    1805.476

 COMB DB-G1-4 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -18.123005   -198.448805    -4.840693
-424.471525    -61.225414    -1741.938
 0.25000  -18.123005   -174.184736    -4.840693
-424.471525    -62.112498    -1838.721
 0.50000  -18.123005   -150.747517    -4.840693
-424.471525    -63.926615    -1935.696
 0.75000  -18.123005   -128.807954    -4.840693
-424.471525    -66.046583    -2032.882
 1.00000  -18.123005   -108.739483    -4.840693
-424.471525    -68.420221    -2130.377

 COMB DB-G2-1 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   10.293372   137.824402     1.491248
 75.757774    35.064953    997.827991
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    518

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST            P            V2           V3
      T           M2           M3
 0.25000   10.293372   137.837199     1.491248
 75.714542    35.734196    856.933552
 0.50000   10.293372   137.850731     1.491248
 75.677588    36.403967    739.737936
 0.75000   10.293372   137.864723     1.491248
 75.642399    37.111192    652.378693
 1.00000   10.293372   137.880320     1.491248
 75.609354    37.832038    587.772913

 COMB DB-G2-1 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -2.401970   -24.454588    -0.750329
-152.657114    -4.989489   -626.872989
 0.25000   -2.401970   -24.439168    -0.750329
-152.670364    -5.364594    -663.330321
 0.50000   -2.401970   -24.425631    -0.750329
-152.706348    -5.745750    -697.822613
 0.75000   -2.401970   -24.412847    -0.750329
-152.741365    -6.131572    -733.349822
 1.00000   -2.401970   -24.401053    -0.750329
-152.782106    -6.523737    -768.898594

 COMB DB-G2-2 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    9.430986   209.339120     1.624835
 65.948655    29.745743    1524.097
 0.25000    9.430986   209.351917     1.624835
 65.905423    30.516971    1308.550
 0.50000    9.430986   209.365449     1.624835
 65.868469    31.500457    1117.257
 0.75000    9.430986   209.379440     1.624835
 65.833280    32.817699    960.735897
 1.00000    9.430986   209.395037     1.624835
 65.800235    34.565745    836.852110

 COMB DB-G2-2 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -7.748438   -41.701182    -3.096519
-347.331645    -19.994068    -1112.235
 0.25000   -7.748438   -41.685762    -3.096519
-347.353895    -20.157444    -1175.832
 0.50000   -7.748438   -41.672224    -3.096519
-347.380879    -20.892391    -1225.526
 0.75000   -7.748438   -41.659441    -3.096519
-347.415896    -21.609130    -1275.256
 1.00000   -7.748438   -41.647646    -3.096519
-347.456637    -22.369805    -1324.987

 COMB DB-G2-3 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   15.668171   398.450294     6.881250
 409.403860    62.620281    2729.028
 0.25000   15.668171   420.746836     6.881250
 380.910423    58.739627    2480.621
 0.50000   15.668171   444.389572     6.881250
 349.199096    55.869253    2220.295
 0.75000   15.668171   468.889608     6.881250
 333.139208    54.354045    1954.116
 1.00000   15.668171   494.819245     6.881250
 333.139208    53.928800    1680.565

 COMB DB-G2-3 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -14.757557   -189.816440    -3.034512
-354.965686    -38.352554    -1615.616
 0.25000  -14.757557   -164.279178    -3.034512
-354.965686    -40.687944    -1709.931
 0.50000  -14.757557   -140.735452    -3.034512
-354.965686    -43.198173    -1804.330
 0.75000  -14.757557   -118.604873    -3.034512
-354.965686    -45.709725    -1898.846
 1.00000  -14.757557    -98.259393    -3.034512
-360.036409    -48.224098    -1993.560
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    519

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   16.794545   362.855442     5.792316
 373.749926    62.042326    2532.193
 0.25000   16.794545   381.427029     5.792316
 350.016723    60.170814    2290.265
 0.50000   16.794545   401.119909     5.792316
 323.603225    59.128299    2039.695
 0.75000   16.794545   421.526865     5.792316
 310.226370    59.193378    1786.102
 1.00000   16.794545   443.124587     5.792316
 310.226370    60.161052    1532.170

 COMB DB-G2-4 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000  -15.979027   -170.188332    -6.101772
-452.144498    -54.646345    -1659.129
 0.25000  -15.979027   -148.917433    -6.101772
-452.144498    -53.287641    -1736.627
 0.50000  -15.979027   -129.307022    -6.101772
-452.144498    -52.786399    -1814.266
 0.75000  -15.979027   -110.873672    -6.101772
```

```
-452.144498  -52.810781  -1892.068
 1.00000  -15.979027  -93.927194  -6.101772
-456.368085  -53.263279  -1970.277

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.094399   43.134626    0.184441
 58.155227   20.532433  375.685184
 0.25000    6.094399   43.147428    0.184441
 58.111918   22.655753  327.597760
 0.50000    6.094399   43.160965    0.184441
 58.074904   24.834416  281.104797
 0.75000    6.094399   43.174962    0.184441
 58.039654   27.030103  236.887192
 1.00000    6.094399   43.190570    0.184441
 58.006551   29.241795  201.584770

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.484316  -18.305910   -5.854927
-237.079850  -31.648982  -463.554100
 0.25000   -6.484316  -18.290481   -5.854927
-237.102142  -26.320046  -459.390182
 0.50000   -6.484316  -18.276937   -5.854927
-237.129431  -21.537379  -455.387141
 0.75000   -6.484316  -18.264148   -5.854927
-237.164506  -17.302872  -451.714782
 1.00000   -6.484316  -18.252348   -5.854927
-237.205320  -13.689767  -448.222847

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.841357   99.333634    0.881555
 78.499545   26.925265  793.629873
 0.25000    9.841357   99.346431    0.881555
 78.456314   29.998877  684.025436
 0.50000    9.841357   99.359963    0.881555
 78.419359   33.202893  580.355264
 0.75000    9.841357   99.373955    0.881555
 78.384170   36.546445  483.242989
 1.00000    9.841357   99.389552    0.881555
 78.351125   40.094250  400.388317

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.890868  -33.604276   -9.053417
-420.336986  -65.100120  -886.504669
 0.25000  -13.890868  -33.588856   -9.053417
-420.359236  -59.790643  -890.693587
 0.50000  -13.890868  -33.575319   -9.053417
-420.386219  -55.379891  -895.050453
 0.75000  -13.890868  -33.562535   -9.053417
-420.421237  -51.672742  -899.935751
 1.00000  -13.890868  -33.550741   -9.053417
-420.461978  -48.725025  -904.923274
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  520

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.407636  185.309973    0.767834
 71.139453   30.877172  1422.277
 0.25000   10.407636  185.321490    0.767834
 71.100545   33.519971  1224.945
 0.50000   10.407636  185.333669    0.767834
 71.067286   36.369028  1041.679
 0.75000   10.407636  185.346261    0.767834
 71.035615   39.524335  877.652312
 1.00000   10.407636  185.360299    0.767834
 71.005875   43.047796  740.822465

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.053198  -47.666416   -8.382626
-519.260093  -48.260311  -1315.187
 0.25000  -12.053198  -47.646538   -8.382626
-519.280118  -43.142632  -1344.423
 0.50000  -12.053198  -47.634354   -8.382626
-519.304404  -38.796656  -1373.771
 0.75000  -12.053198  -47.622849   -8.382626
-519.335919  -34.997223  -1403.571
 1.00000  -12.053198  -47.612234   -8.382626
-519.372586  -32.085818  -1433.462

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   16.087218  311.531361    4.079069
315.590587   60.248526  2223.414
 0.25000   16.087218  324.583984    4.079069
281.536631   60.819696  1990.088
 0.50000   16.087218  338.404968    4.079069
258.429453   62.206480  1756.763
 0.75000   16.087218  352.711067    4.079069
233.928641   64.199587  1530.159
 1.00000   16.087218  368.262951    4.079069
217.285089   67.027491  1314.370

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -15.076412  -134.631783   -7.397015
-485.820630  -51.886179  -1587.094
 0.25000  -15.076412  -119.284508   -7.397015
-485.820630  -48.501981  -1648.488
 0.50000  -15.076412  -105.489234   -7.397015
-494.380659  -45.981791  -1709.982
 0.75000  -15.076412  -92.491186   -7.397015
-514.813824  -44.004415  -1771.879
 1.00000  -15.076412  -80.513093   -7.397015
-539.784315  -42.602213  -1833.951

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.931046  298.451200   10.816984
606.610708   45.851035  1647.761
 0.25000   14.931046  320.278196   10.816984
615.219002   38.568302  1539.425
 0.50000   14.931046  343.370112   10.816984
623.827295   32.173405  1432.182
 0.75000   14.931046  367.305985   10.816984
632.435588   27.238365  1315.568
 1.00000   14.931046  391.591331   10.816984
641.043881   23.937162  1192.244

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -22.868155  -151.621174   -0.712714
-139.478374  -56.076111  -1020.416
 0.25000  -22.868155  -134.329471   -0.712714
-139.478374  -61.749517  -1104.218
 0.50000  -22.868155  -117.724042   -0.712714
-139.478374  -68.082618  -1232.599
 0.75000  -22.868155  -102.257017   -0.712714
-139.478374  -75.234064  -1398.526
 1.00000  -22.868155  -88.297702   -0.712714
-139.478374  -83.294553  -1595.426
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  521

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   28.496468  479.264727   13.971109
744.674080   97.183804  2680.295
 0.25000   28.496468  505.662270   13.971109
747.987274   88.836019  2451.507
 0.50000   28.496468  533.634352   13.971109
751.300469   81.720080  2251.851
 0.75000   28.496468  562.662730   13.971109
754.613663   76.289501  2069.564
 1.00000   28.496468  592.191927   13.971109
757.926857   72.559444  1902.397

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -27.194799  -214.137204   -1.704873
-263.354243  -65.341509  -1780.027
 0.25000  -27.194799  -192.707167   -1.704873
-263.354243  -72.079735  -1897.379
 0.50000  -27.194799  -172.168259   -1.704873
-263.354243  -79.604327  -2087.273
 0.75000  -27.194799  -153.058131   -1.704873
-263.354243  -88.113656  -2339.281
 1.00000  -27.194799  -135.804403   -1.704873
-263.354243  -97.716910  -2648.344

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   25.675961  540.753077   12.502256
659.088542   84.856064  3149.260
 0.25000   25.675961  564.975743   12.502256
661.484662   77.926245  2849.979
 0.50000   25.675961  590.647012   12.502256
663.880781   72.401254  2590.273
 0.75000   25.675961  617.294562   12.502256
666.276901   68.708478  2361.934
 1.00000   25.675961  644.407220   12.502256
668.673020   66.698110  2162.127

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -26.230338  -219.738641   -2.977882
-419.575911  -63.721712  -2304.462
 0.25000  -26.230338  -200.024506   -2.977882
-419.575911  -68.748505  -2416.444
 0.50000  -26.230338  -181.134949   -2.977882
-419.575911  -75.067993  -2606.240
 0.75000  -26.230338  -163.560456   -2.977882
-419.575911  -82.677356  -2868.451
 1.00000  -26.230338  -147.695131   -2.977882
-419.575911  -91.354205  -3200.196

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   25.341971  499.346705   10.753633
593.650566   80.886491  3038.171
 0.25000   25.341971  519.537399   10.753633
595.647841   76.895998  2743.031
 0.50000   25.341971  540.935569   10.753633
597.645116   74.298292  2482.418
 0.75000   25.341971  563.147514   10.753633
599.642391   73.470096  2259.089
 1.00000   25.341971  585.747148   10.753633
601.639665   74.301485  2065.357

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -28.880510  -201.513934   -6.290449
-543.294545  -83.128077  -2376.695
 0.25000  -28.880510  -185.081306   -6.290449
-543.294545  -85.211154  -2462.249
 0.50000  -28.880510  -169.336001   -6.290449
-543.294545  -88.680630  -2613.873
 0.75000  -28.880510  -154.686862   -6.290449
-543.294545  -93.591729  -2836.479
 1.00000  -28.880510  -141.462392   -6.290449
-543.294545  -99.745075  -3121.848
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  522

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.142047  173.674016    1.811956
68.579444   47.513776  1041.853
 0.25000   13.142047  173.681730    1.811956
68.559307   47.556683  902.385876
 0.50000   13.142047  173.689995    1.811956
68.540078   47.725472  795.116879
 0.75000   13.142047  173.698651    1.811956
68.522192   47.977753  722.460971
 1.00000   13.142047  173.707553    1.811956
68.505941   48.316620  680.863046

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.143169  -39.656228   -1.046076
-165.716344  -7.173178  -844.172472
 0.25000   -3.143169  -39.649156   -1.046076
-165.730190  -7.620850  -869.314636
 0.50000   -3.143169  -39.642339   -1.046076
-165.745656  -8.192152  -922.615835
 0.75000   -3.143169  -39.636208   -1.046076
-165.762313  -8.850621  -997.105168
 1.00000   -3.143169  -39.630613   -1.046076
-165.779775  -9.595945  -1102.917

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.620074  272.696007    1.853656
69.904875   39.674446  1743.146
 0.25000   12.620074  272.703721    1.853656
69.886230   40.806396  1514.424
 0.50000   12.620074  272.711986    1.853656
69.865495   42.451433  1329.076
 0.75000   12.620074  272.720643    1.853656
69.847602   44.570162  1195.986
 1.00000   12.620074  272.729545    1.853656
69.831345   47.056497  1107.862

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.002627  -66.190109   -3.759690
-392.646089  -26.115579  -1551.218
 0.25000   -9.002627  -66.183036   -3.759690
-392.659942  -25.145865  -1576.964
 0.50000   -9.002627  -66.176319   -3.759690
-392.675417  -24.958343  -1638.246
 0.75000   -9.002627  -66.170087   -3.759690
-392.692083  -25.216856  -1738.223
 1.00000   -9.002627  -66.164491   -3.759690
-392.709553  -25.799443  -1882.094

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   21.434628  471.160379    8.622604
493.230940   75.752912  2825.266
 0.25000   21.434628  491.999684    8.622604
457.960799   72.241116  2548.688
 0.50000   21.434628  514.194736    8.622604
421.720528   69.878790  2306.371
 0.75000   21.434628  537.347068    8.622604
397.458753   68.662536  2093.501
 1.00000   21.434628  561.027748    8.622604
388.924637   68.756849  1907.186

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -20.274541  -194.491875   -3.950865
-438.969999  -52.308527  -2200.231
 0.25000  -20.274541  -176.474482   -3.950865
-438.970143  -54.913395  -2332.850
 0.50000  -20.274541  -159.287232   -3.950865
-438.976573  -58.506375  -2481.679
 0.75000  -20.274541  -143.307982   -3.950865
-445.945724  -62.881239  -2682.826
 1.00000  -20.274541  -128.905610   -3.950865
-472.366008  -67.961695  -3020.287
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  523

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   22.725021  433.725381    7.350279
471.714235   77.470336  2750.379
 0.25000   22.725021  451.086026    7.350279
442.331661   76.963949  2480.742
 0.50000   22.725021  469.576106    7.350279
412.140899   77.644893  2239.906
 0.75000   22.725021  488.863670    7.350279
391.929090   79.564417  2034.447
 1.00000   22.725021  508.591386    7.350279
384.819556   82.944056  1855.340

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -21.942086  -181.519861   -7.926727
-563.993850  -67.493334  -2283.127
 0.25000  -21.942086  -166.510072   -7.926727
-563.993970  -66.331554  -2381.714
 0.50000  -21.942086  -152.191852   -7.926727
-563.999326  -66.548975  -2493.821
 0.75000  -21.942086  -138.879884   -7.926727
-569.805132  -67.999206  -2660.154
 1.00000  -21.942086  -126.881768   -7.926727
-591.815136  -70.637709  -2943.438

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.392639   57.031368    0.286703
107.139824   30.637192  587.507592
 0.25000    9.392639   57.039083    0.286703
107.119657   34.690973  533.494872
 0.50000    9.392639   57.047350    0.286703
107.100401   39.245947  480.107012
 0.75000    9.392639   57.056009    0.286703
107.082482   44.412505  441.595114
 1.00000    9.392639   57.064914    0.286703
107.066215   50.203954  410.574791

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.013871  -31.236677   -7.816557
-300.990124  -33.703566  -676.797009
 0.25000   -8.013871  -31.229601   -7.816557
-301.004001  -28.274661  -655.385184
 0.50000   -8.013871  -31.222880   -7.816557
-301.019501  -23.536879  -634.307217
 0.75000   -8.013871  -31.216647   -7.816557
-301.036191  -19.655293  -627.586914
 1.00000   -8.013871  -31.211049   -7.816557
-301.053692  -16.672534  -626.920823

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.036179  132.161262    0.881512
142.421814   45.777757  1453.150
 0.25000   13.036179  132.168974    0.881512
142.405706   45.777757  1030.600
 0.50000   13.036179  132.177236    0.881512
142.386505   52.060498  914.041106
 0.75000   13.036179  132.185890    0.881512
142.368644   59.214481  828.010949
 1.00000   13.036179  132.194789    0.881512
142.352417   67.294864  759.954072

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -17.536127  -54.168872   -11.504294
-527.453285  -72.660098  -1288.904
 0.25000  -17.536127  -54.161804   -11.504294
-527.467099  -65.839653  -1267.614
 0.50000  -17.536127  -54.155090   -11.504294
-527.482532  -59.976954  -1248.056
 0.75000  -17.536127  -54.148862   -11.504294
-527.499154  -55.225810  -1246.732
 1.00000  -17.536127  -54.143269   -11.504294
-527.516578  -51.607632  -1280.153
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  524

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   15.250483  246.184639    0.899688
128.148313   46.634083  1845.371
 0.25000   15.250483  246.267929    0.899688
127.931068   51.971389  1628.227
 0.50000   15.250483  246.357167    0.899688
127.723620   58.143626  1437.953
 0.75000   15.250483  246.450633    0.899688
127.530659   65.168124  1294.973
 1.00000   15.250483  246.546750    0.899688
127.355343   73.068528  1188.556

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.881827  -75.950561   -10.798416
-619.781541  -56.507163  -1849.531
 0.25000  -14.881827  -75.874210   -10.798416
-619.930815  -50.279204  -1840.815
 0.50000  -14.881827  -75.801693   -10.798416
-620.097585  -45.102291  -1855.571
 0.75000  -14.881827  -75.734423   -10.798416
-620.277193  -40.971675  -1912.453
 1.00000  -14.881827  -75.674018   -10.798416
-620.465480  -37.807857  -2006.738

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   23.954276  379.733319    5.085434
393.611645   80.525868  2514.069
 0.25000   23.954276  392.154093    5.085434
365.478773   82.691270  2257.455
 0.50000   23.954276  405.428311    5.085434
338.530956   85.887522  2030.000
 0.75000   23.954276  419.296674    5.085434
313.346123   90.438962  1843.574
 1.00000   23.954276  433.529154    5.085434
290.683987   96.081234  1687.902

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -19.334579  -155.121866   -9.718205
-596.247156  -62.676380  -2258.822
 0.25000  -19.334579  -144.033924   -9.718205
-601.292237  -59.290361  -2297.001
 0.50000  -19.334579  -133.481052   -9.718205
-621.001367  -57.028799  -2379.345
 0.75000  -19.334579  -123.682752   -9.718205
-642.416323  -55.896515  -2513.191
 1.00000  -19.334579  -114.872911   -9.718205
-664.847510  -55.864507  -2707.776

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   22.208131  463.923622   10.821786
645.052234   85.399975  3144.170
 0.25000   22.208131  490.592372   10.821786
645.052234   77.250508  2877.055
 0.50000   22.208131  518.942571   10.821786
645.052234   70.262833  2594.120
 0.75000   22.208131  548.379972   10.821786
645.052234   64.546798  2302.005
 1.00000   22.208131  578.037519   10.821786
645.052234   67.027491  1999.376

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.123005  -227.041135   -9.053417
-519.260093  -65.100120  -1741.938
 0.25000  -18.123005  -195.400830   -9.053417
-519.280118  -62.112498  -1838.721
 0.50000  -18.123005  -166.056367   -9.053417
-519.304404  -63.929605  -1935.696
 0.75000  -18.123005  -139.741462   -9.053417
-519.335919  -66.046583  -2032.382
 1.00000  -18.123005  -115.670983   -9.053417
-539.784315  -68.420221  -2145.479
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  525

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   28.496468  540.753077   13.971109
744.674080   97.183804  3149.260
 0.25000   28.496468  564.975743   13.971109
747.987274   88.836019  2849.979
 0.50000   28.496468  590.647012   13.971109
751.300469   85.887522  2590.273
 0.75000   28.496468  617.294562   13.971109
754.613663   90.438962  2361.934
 1.00000   28.496468  644.407220   13.971109
757.926857   96.081234  2162.127

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -28.880510  -219.738641   -11.504294
-619.781541  -83.128077  -2376.695
 0.25000  -28.880510  -200.024506   -11.504294
-619.930815  -85.211154  -2462.249
 0.50000  -28.880510  -181.134949   -11.504294
-621.001367  -88.680630  -2613.873
 0.75000  -28.880510  -163.560456   -11.504294
-642.416323  -93.591729  -2868.451
 1.00000  -28.880510  -147.695131   -11.504294
-664.847510  -99.745075  -3200.196

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   28.496468  540.753077   13.971109
744.674080   97.183804  3149.260
 0.25000   28.496468  564.975743   13.971109
747.987274   88.836019  2877.055
 0.50000   28.496468  590.647012   13.971109
751.300469   85.887522  2594.120
 0.75000   28.496468  617.294562   13.971109
754.613663   90.438962  2361.934
 1.00000   28.496468  644.407220   13.971109
757.926857   96.081234  2162.127

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -28.880510  -227.041135   -11.504294
-619.781541  -83.128077  -2376.695
 0.25000  -28.880510  -200.024506   -11.504294
-619.930815  -85.211154  -2462.249
 0.50000  -28.880510  -181.134949   -11.504294
-621.001367  -88.680630  -2613.873
 0.75000  -28.880510  -163.560456   -11.504294
-642.416323  -93.591729  -2868.451
 1.00000  -28.880510  -147.695131   -11.504294
-664.847510  -99.745075  -3200.196

 COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   28.496468  540.753077   13.971109
744.674080   97.183804  3149.260
 0.25000   28.496468  564.975743   13.971109
747.987274   88.836019  2877.055
 0.50000   28.496468  590.647012   13.971109
751.300469   85.887522  2594.120
 0.75000   28.496468  617.294562   13.971109
754.613663   90.438962  2361.934
 1.00000   28.496468  644.407220   13.971109
757.926857   96.081234  2162.127

 COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -28.880510  -227.041135   -11.504294
-619.781541  -83.128077  -2376.695
 0.25000  -28.880510  -200.024506   -11.504294
-619.930815  -85.211154  -2462.249
 0.50000  -28.880510  -181.134949   -11.504294
-621.001367  -88.680630  -2613.873
 0.75000  -28.880510  -163.560456   -11.504294
-642.416323  -93.591729  -2868.451
 1.00000  -28.880510  -147.695131   -11.504294
-664.847510  -99.745075  -3200.196
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  526

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       19 ================== LENGTH
=    4.987142

 COMB DB-G1-1 ------------------- MAX
```

```
 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   12.146820   339.053591    3.712215
547.541938   19.241776  1226.537
 0.25000   12.146820   362.761889    3.712215
547.541938   16.356809  1047.683
 0.50000   12.146820   387.834737    3.712215
547.541938   14.553098   839.858232
 0.75000   12.146820   413.730642    3.712215
547.541938   14.336255   603.252940
 1.00000   12.146820   438.940113    3.712215
547.541938   16.132854   385.763332

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -11.529566  -105.502886   -5.401732
-176.998560  -49.257368  -1036.224
 0.25000  -11.529566   -82.974781   -5.401732
-176.998560  -45.288974  -1138.132
 0.50000  -11.529566   -60.632701   -5.401732
-176.998560  -41.446005  -1240.407
 0.75000  -11.529566   -39.918846   -5.401732
-176.998560  -37.740544  1342.932
 1.00000  -11.529566   -26.506857   -5.401732
-176.998560  -34.351654  -1445.716

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   22.733990   515.411254   17.442050
629.208965   61.002138  1898.746
 0.25000   22.733990   545.066145   17.442050
629.208965   40.996423  1578.028
 0.50000   22.733990   576.354712   17.442050
629.208965   21.976452  1241.816
 0.75000   22.733990   608.634169   17.442050
629.208965   15.522562   913.382967
 1.00000   22.733990   640.899295   17.442050
629.208965   12.779617   630.995097

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -15.428359  -149.006994   -3.154029
-312.947936  -60.094253  -1749.296
 0.25000  -15.428359  -119.769484   -3.154029
-312.947936  -58.522088  -1894.185
 0.50000  -15.428359   -91.536986   -3.154029
-312.947936  -57.122080  -2039.322
 0.75000  -15.428359   -65.297770   -3.154029
-312.947936  -58.503092  -2184.919
 1.00000  -15.428359   -46.899900   -3.154029
-312.947936   -68.119483   -2330.597

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   19.686690   548.948310   13.031377
594.239132   50.250032  1998.579
 0.25000   19.686690   576.159208   13.031377
594.239132   35.651789  1630.426
 0.50000   19.686690   604.865773   13.031377
594.239132   21.771312  1303.221
 0.75000   19.686690   634.478131   13.031377
594.239132   16.511573  1024.385
 1.00000   19.686690   664.141659   13.031377
594.239132   13.693107   778.179659

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -16.011108  -153.074245   -2.765944
-453.926810  -55.200250  -2144.833
 0.25000  -16.011108  -126.151448   -2.765944
-453.926810  -53.584531  -2284.697
 0.50000  -16.011108  -100.222418   -2.765944
-453.926810  -52.396493  -2425.031
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    527

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
   T          M2          M3
 0.75000  -16.011108   -76.119291   -2.765944
-453.926810  -51.995576  -2565.789
 1.00000  -16.011108   -59.115315   -2.765944
-453.926810   -57.665189   -2706.644

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   20.275249   494.523263   11.139926
555.796384   53.446108  1805.082
 0.25000   20.275249   517.205931   11.139926
555.796384   41.964196  1497.286
 0.50000   20.275249   541.142460   11.139926
555.796384   31.646671  1227.669
 0.75000   20.275249   565.830561   11.139926
555.796384   29.691495   998.623458
 1.00000   20.275249   590.563235   11.139926
555.796384   31.598420   796.708565

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -18.684832  -140.790234   -9.549520
-542.931399  -70.522921  -2130.082
 0.25000  -18.684832  -118.341444   -9.549520
-542.931399  -60.461692  -2236.428
 0.50000  -18.684832   -96.723298   -9.549520
-542.931399  -50.976995  -2343.593
 0.75000  -18.684832   -76.627346   -9.549520
-542.931399  -44.507487  -2451.624
 1.00000  -18.684832   -62.447220   -9.549520
-542.931399   -49.413373   -2559.978

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   10.277275   156.440351   13.194116
51.104045   37.979654   588.193449
 0.25000   10.277275   156.453236   13.194116
51.058815   21.743176   429.742742
 0.50000   10.277275   156.466744   13.194116
51.019143    5.848894   306.306802
 0.75000   10.277275   156.480603   13.194116
50.987038    4.064876   270.881921
 1.00000   10.277275   156.496025   13.194116
50.970870    4.107864   259.716181

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -2.478934   -21.157179   -0.222622
-184.240312   -6.343196  -768.831735
 0.25000   -2.478934   -21.142143   -0.222622
-184.252302   -8.426601  -803.334748
 0.50000   -2.478934   -21.129298   -0.222622
-184.285789  -11.422772  -837.865430
 0.75000   -2.478934   -21.117248   -0.222622
-184.322769  -15.991292  -872.588559
 1.00000   -2.478934   -21.106384   -0.222622
-184.365557   -28.897065  -907.328391

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    9.905836   230.413498    9.242482
98.422049   33.121711   838.149662
 0.25000    9.905836   230.426383    9.242482
98.376819   22.280262   625.935269
 0.50000    9.905836   230.439890    9.242482
98.337147   12.221027   504.128172
 0.75000    9.905836   230.453750    9.242482
98.305042   12.607692   478.026069
 1.00000    9.905836   230.469172    9.242482
98.288874   16.862293   474.502831

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -8.031921   -38.233175   -5.429239
-386.466536  -23.208168  -1325.109
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    528

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
   T          M2          M3
 0.25000   -8.031921   -38.218289   -5.429239
-386.478526  -18.622676  -1359.718
 0.50000   -8.031921   -38.205444   -5.429239
-386.512013  -14.785875  -1394.791
 0.75000   -8.031921   -38.193394   -5.429239
-386.548993  -13.910967  -1430.061
 1.00000   -8.031921   -38.182529   -5.429239
-386.591781  -23.533759  -1465.584

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   16.294005   461.221402   14.087335
436.541067   53.087820  1680.901
 0.25000   16.294005   483.828590   14.087335
403.410498   36.632035  1378.195
 0.50000   16.294005   507.607040   14.087335
378.918742   20.820366  1123.406
 0.75000   16.294005   532.074295   14.087335
378.918742   15.128074   920.469269
 1.00000   16.294005   557.860900   14.087335
378.918742   18.815950   731.575802

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -15.086529  -141.705645   -5.486292
-451.353065  -49.018222  -1993.244
 0.25000  -15.086529  -117.438260   -5.486292
-451.353065  -44.936903  -2095.597
 0.50000  -15.086529   -95.425707   -5.486292
-451.353065  -41.579187  -2198.380
 0.75000  -15.086529   -74.874900   -5.486292
-451.353065  -40.954780  -2301.478
 1.00000  -15.086529   -58.283608   -5.486292
-452.259365   -48.654908   -2405.001

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   17.832792   414.357156   12.161267
433.952948   60.468148  1532.430
 0.25000   17.832792   433.187491   12.161267
406.357313   47.171475  1283.043
 0.50000   17.832792   452.903412   12.161267
385.957254   34.503540  1073.491
 0.75000   17.832792   473.373064   12.161267
385.957254   30.136620   906.959892
 1.00000   17.832792   494.851650   12.161267
385.957254   33.457236   752.226904

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -16.663964  -132.372838   -8.305696
-539.913913  -55.137796  -1970.303
 0.25000  -16.663964  -112.159665   -8.305696
-539.913913  -47.199771  -2041.902
 0.50000  -16.663964   -93.824623   -8.305696
-539.913913   -39.916199   -2114.289
 0.75000  -16.663964   -76.707128   -8.305696
-539.913913   -35.100328   -2187.485
 1.00000  -16.663964   -62.887641   -8.305696
-540.668802   -41.566140   -2261.341

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    6.778095   41.843018    1.453258
114.588022   30.670062  201.653275
 0.25000    6.778095   41.855908    1.453258
114.544618   29.806509  203.572143
 0.50000    6.778095   41.869420    1.453258
114.504886   28.958764  206.953148
 0.75000    6.778095   41.883284    1.453258
114.472370   28.253855  210.392967
 1.00000    6.778095   41.898716    1.453258
114.456004   27.821709  213.865430
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    529

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -7.089208   -23.094165   -4.619576
-249.009417  -14.970363  -448.695239
 0.25000   -7.089208   -23.079117   -4.619576
-249.021825  -10.396027  -425.785360
 0.50000   -7.089208   -23.066266   -4.619576
-249.055645   -6.537407  -403.682377
 0.75000   -7.089208   -23.054209   -4.619576
-249.092683   -3.972520  -382.134550
 1.00000   -7.089208   -23.043340   -4.619576
-249.135544   -3.130516  -361.398351

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   10.972344   99.045154    1.512900
173.628611   41.033437  401.115608
 0.25000   10.972344   99.058039    1.512900
173.590381   40.476069  378.561441
 0.50000   10.972344   99.071546    1.512900
173.543709   40.634297  384.316813
 0.75000   10.972344   99.085406    1.512900
173.511603   43.620281  390.876699
 1.00000   10.972344   99.100828    1.512900
173.495436   51.905151  398.380857

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -14.590273  -38.088669  -15.136176
-440.454230  -50.626597  -905.613580
 0.25000  -14.590273  -38.073634  -15.136176
-440.466219   -33.119824  -877.346526
 0.50000  -14.590273  -38.060788  -15.136176
-440.499706  -16.812564  -850.210786
 0.75000  -14.590273  -38.048738  -15.136176
-440.536686   -5.341954  -824.125900
 1.00000  -14.590273  -38.037874  -15.136176
-440.579474   -4.145997  -799.139406

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   11.388692   195.799191    3.512010
179.022774   43.146859  741.976565
 0.25000   11.388692   195.810788    3.512010
178.982067   40.166965  609.736604
 0.50000   11.388692   195.822945    3.512010
178.946362   37.640673  548.336278
 0.75000   11.388692   195.835418    3.512010
178.917467   38.860991  560.751854
 1.00000   11.388692   195.849298    3.512010
178.902916   42.175889  574.662325

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -12.994901   -51.789731   -9.648715
-555.442654  -33.557293  -1434.098
 0.25000  -12.994901   -51.776198   -9.648715
-555.453445  -23.642870  -1428.883
 0.50000  -12.994901   -51.764538   -9.648715
-555.483583  -14.841054  -1424.850
 0.75000  -12.994901   -51.753793   -9.648715
-555.516865   -9.055518  -1421.638
 1.00000  -12.994901   -51.744015   -9.648715
-555.555374   -9.996127  -1419.406

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   17.144068   349.002808   13.677118
369.895633   67.516332  1315.061
 0.25000   17.144068   362.190397   13.677118
345.542992   52.150068  1098.325
 0.50000   17.144068   376.037478   13.677118
319.808643   38.601932   931.966968
 0.75000   17.144068   390.265473   13.677118
297.675354   35.463844   816.602049
 1.00000   17.144068   405.684969   13.677118
297.675354   38.169999   711.751056
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    530

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -15.841089  -112.825066   -8.182622
-554.804888  -44.459945  -1834.227
 0.25000  -15.841089   -98.042236   -8.182622
-554.804888   -37.528968  -1878.579
 0.50000  -15.841089   -85.045810   -8.182622
-554.804888   -31.730423  -1923.900
 0.75000  -15.841089   -72.881622   -8.182622
-578.352365   -29.040412  -1969.905
 1.00000  -15.841089   -62.390241   -8.182622
-603.165830   -36.060465   -2016.818

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   15.510469   400.241959    3.578655
669.201836   24.534464  1191.136
 0.25000   15.510469   424.497074    3.578655
677.808490   21.891833  1093.935
 0.50000   15.510469   449.982911    3.578655
686.415144   19.764633   993.449129
 0.75000   15.510469   476.248741    3.578655
695.021798   19.184410   893.521849
 1.00000   15.510469   502.823520    3.578655
703.628451   20.159239   800.076132

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -23.039064  -110.849488   -6.978676
-264.756580  -84.660842  -1596.449
 0.25000  -23.039064   -95.929613   -6.978676
-264.756580   -78.164925  -1670.198
 0.50000  -23.039064   -81.723550   -6.978676
-264.756580   -72.151159   -2194.818
 0.75000  -23.039064   -68.672427   -6.978676
-264.756580   -66.901492   -2550.234
 1.00000  -23.039064   -57.154884   -6.978676
-264.756580   -62.380250   -2949.292

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   29.050187   619.227408   21.463404
786.832334   94.632232  1901.385
 0.25000   29.050187   648.352413   21.463404
790.145797   51.129727  1719.388
 0.50000   29.050187   678.992575   21.463404
793.458360   31.568547  1553.064
 0.75000   29.050187   710.614872   21.463404
796.770924   25.199555  1420.526
 1.00000   29.050187   742.660526   21.463404
800.083555   23.449220  1318.992

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -27.238034  -161.461557   -4.999924
-428.272517  -99.241078  -2649.381
 0.25000  -27.238034  -142.699737   -4.999924
-428.272517  -97.840879  -3070.332
 0.50000  -27.238034  -124.877732   -4.999924
-428.272517  -98.984993  -3548.768
 0.75000  -27.238034  -108.513782   -4.999924
-428.272517  -108.185065  -4087.550
 1.00000  -27.238034   -94.062334   -4.999924
-428.272517  -125.107644  -4695.018

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   26.535558   669.989928   16.631233
740.769773   66.824882  2161.861
 0.25000   26.535558   696.696442   16.631233
743.165436   50.280174  1949.229
 0.50000   26.535558   724.799740   16.631233
745.561099   35.789371  1772.444
 0.75000   26.535558   753.806939   16.631233
747.956762   29.849839  1655.202
 1.00000   26.535558   783.209648   16.631233
750.352475   27.371744  1573.570
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    531

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -26.546447  -175.183565   -5.329595
-588.616924  -93.076797  -3200.910
 0.25000  -26.546447  -157.892281   -5.329595
-588.616924   -91.097729   -3639.901
 0.50000  -26.546447  -141.480991   -5.329595
-588.616924   -90.959792   -4146.682
 0.75000  -26.546447  -126.410239   -5.329595
-588.616924   -95.833223   -4724.531
 1.00000  -26.546447  -113.109842   -5.329595
-588.616924  -106.067572   -5377.914

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   26.592970   603.534993   14.212100
703.826181   74.535857  2065.774
 0.25000   26.592970   625.796087   14.212100
705.823076   62.792462  1873.516
 0.50000   26.592970   649.221465   14.212100
707.819970   53.924849  1719.508
 0.75000   26.592970   673.400284   14.212100
709.816864   54.683601  1622.032
 1.00000   26.592970   697.908780   14.212100
711.813800   61.637423  1560.319

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -29.499506  -171.274943  -13.376343
-694.014437  -101.630508  -3122.615
 0.25000  -29.499506  -156.866039  -13.376343
-694.014437   -90.957058   -3486.517
 0.50000  -29.499506  -143.182315  -13.376343
-694.014437   -83.041353   -3915.857
 0.75000  -29.499506  -130.620158  -13.376343
-694.014437   -81.947856   -4415.187
 1.00000  -29.499506  -119.526170  -13.376343
-694.014437   -90.469296   -4985.902

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   13.039681   202.044830   18.303544
55.889378   48.316766  681.239642
 0.25000   13.039681   202.053028   18.303544
55.869161   28.467462  588.313607
 0.50000   13.039681   202.061737   18.303544
55.849952   10.963888  520.429937
 0.75000   13.039681   202.070788   18.303544
55.832183    7.371331  502.873322
 1.00000   13.039681   202.080028   18.303544
55.816187    7.614680  515.231538

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -3.034248   -35.429773   -0.289259
-200.008218   -9.463531  -1102.771
 0.25000   -3.034248   -35.423174   -0.289259
-200.023254   -12.909374   -1227.017
 0.50000   -3.034248   -35.416971   -0.289259
-200.039874   -18.781826   -1374.832
 0.75000   -3.034248   -35.411282   -0.289259
-200.057691   -33.537455   -1545.503
 1.00000   -3.034248   -35.406218   -0.289259
-200.076339   -55.175368   -1739.397

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   13.133507   297.808470   12.899750
115.824586   46.227679  1109.071
 0.25000   13.133507   297.816668   12.899750
115.804362   34.373347   974.150132
 0.50000   13.133507   297.825377   12.899750
115.785146   25.030283   889.532862
 0.75000   13.133507   297.834629   12.899750
115.767370   25.715964   877.675806
 1.00000   13.133507   297.843670   12.899750
115.751369   31.752780   902.331990
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    532

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -9.254694   -66.418977   -6.754441
-444.794126  -26.302436  -1881.815
 0.25000   -9.254694   -66.412377   -6.754441
-444.809170   -22.699170   -1934.545
 0.50000   -9.254694   -66.406173   -6.754441
-444.825799   -21.728480   -2246.413
 0.75000   -9.254694   -66.400483   -6.754441
-444.843625   -27.572570   -2487.673
 1.00000   -9.254694   -66.395439   -6.754441
-444.862282   -41.663683   -2764.840

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   22.219626   562.314826   18.684817
547.011738   68.448474  1907.677
 0.25000   22.219626   584.879430   18.684817
511.069977   51.297281  1733.103
 0.50000   22.219626   608.730860   18.684817
476.962963   36.959403  1591.461
 0.75000   22.219626   633.447595   18.684817
467.453099   31.814039  1504.553
 1.00000   22.219626   658.592238   18.684817
460.484678   36.576104  1445.402

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -20.599468  -166.749309   -6.757542
-559.848985  -69.111710  -3020.212
 0.25000  -20.599468  -150.413903   -6.757542
-559.848414  -67.197698  -3356.115
 0.50000  -20.599468  -134.967279   -6.757542
-560.178003  -68.240844  -3750.368
 0.75000  -20.599468  -120.824569   -6.757542
-562.809392  -76.118866  -4216.932
 1.00000  -20.599468  -108.302784   -6.757542
-589.284383   -93.120171   -4727.503

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   23.951425   507.540647   16.017583
562.138114   83.223204  1856.373
 0.25000   23.951425   526.338591   16.017583
531.392952   70.225648  1698.277
 0.50000   23.951425   546.208554   16.017583
502.979347   59.968882  1573.639
 0.75000   23.951425   566.799379   16.017583
495.056944   57.859483  1499.396
 1.00000   23.951425   587.746681   16.017583
489.251746   65.017494  1454.483

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -22.732734  -166.496433  -10.401161
-677.224616  -72.271054  -2943.663
 0.25000  -22.732734  -152.887862  -10.401161
-677.224141   -66.235172   -3214.247
 0.50000  -22.732734  -140.019709  -10.401161
-677.498712   -63.019806   -3538.359
 0.75000  -22.732734  -128.237810  -10.401161
-679.690849   -66.007381   -3930.878
 1.00000  -22.732734  -117.806259  -10.401161
-701.746428   -79.220602   -4370.763

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   10.242007   54.679929    2.255702
174.798156   50.970550  411.573315
 0.25000   10.242007   54.688129    2.255702
174.777910   49.836880  392.788657
 0.50000   10.242007   54.696839    2.255702
174.758673   49.166677  381.712718
 0.75000   10.242007   54.705893    2.255702
174.740879   49.215686  378.770155
 1.00000   10.242007   54.715136    2.255702
174.724862   50.067808  383.536252
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.792950	-43.684930	-4.930179
-321.860913	-17.529432	-627.454560	
0.25000	-8.792950	-43.678327	-4.930179
-321.875982	-13.085330	-608.119499	
0.50000	-8.792950	-43.672120	-4.930179
-321.892636	-9.361050	-596.385979	
0.75000	-8.792950	-43.666428	-4.930179
-321.910489	-6.817446	-592.768692	
1.00000	-8.792950	-43.661381	-4.930179
-321.929174	-5.673723	-601.969814	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.480944	125.971234	2.134455
256.680812	67.764424	761.744388	
0.25000	14.480944	125.979431	2.134455
256.660624	68.459770	714.674021	
0.50000	14.480944	125.988138	2.134455
256.641443	72.208528	693.886669	
0.75000	14.480944	125.997187	2.134455
256.623698	80.542962	691.993608	
1.00000	14.480944	126.006425	2.134455
256.607725	95.469851	706.560235	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.663165	-72.804525	-17.772361
-559.976483	-52.864088	-1280.758	
0.25000	-18.663165	-72.797930	-17.772361
-559.991486	-34.624793	-1274.282	
0.50000	-18.663165	-72.791731	-17.772361
-560.008073	-19.162303	-1289.536	
0.75000	-18.663165	-72.786045	-17.772361
-560.025855	-9.388920	-1325.203	
1.00000	-18.663165	-72.781005	-17.772361
-560.044464	-7.665411	-1385.751	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.429903	254.248058	6.294552
248.532115	72.776698	1190.630	
0.25000	16.429903	254.336582	6.294552
248.314010	69.383177	1084.561	
0.50000	16.429903	254.430624	6.294552
248.106775	68.028449	1019.354	
0.75000	16.429903	254.530363	6.294552
247.915064	71.450051	1014.452	
1.00000	16.429903	254.628141	6.294552
247.742496	79.881520	1038.185	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.906358	-93.199830	-11.995067
-673.975693	-38.556221	-2007.031	
0.25000	-15.906358	-93.128596	-11.995067
-674.137820	-28.172680	-2089.437	
0.50000	-15.906358	-93.061635	-11.995067
-674.317042	-22.030102	-2221.047	
0.75000	-15.906358	-93.000221	-11.995067
-674.509179	-17.351184	-2367.339	
1.00000	-15.906358	-92.945773	-11.995067
-674.710260	-20.427065	-2564.256	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.030559	431.865894	18.532771
483.752490	96.231039	1689.410	
0.25000	25.030559	445.179372	18.532771
455.318751	80.391139	1547.141	
0.50000	25.030559	459.238913	18.532771
428.242191	67.861811	1439.522	
0.75000	25.030559	473.943947	18.532771
403.159801	66.202882	1386.606	
1.00000	25.030559	488.830805	18.532771
388.121326	73.033972	1363.126	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.192006	-151.674308	-10.147364
-687.344393	-56.909680	-2708.073	
0.25000	-20.192006	-141.454667	-10.147364
-689.713561	-51.276003	-2928.465	
0.50000	-20.192006	-131.819019	-10.147364
-711.233715	-49.523586	-3187.029	
0.75000	-20.192006	-123.001857	-10.147364
-734.468547	-55.834437	-3495.386	
1.00000	-20.192006	-115.191023	-10.147364
-758.812821	-71.869603	-3857.342	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.733990	548.948310	17.442050
629.208965	67.518332	1998.579	
0.25000	22.733990	576.159208	17.442050
629.208965	52.520109	1630.426	
0.50000	22.733990	604.865773	17.442050
629.208965	47.634297	1501.221	
0.75000	22.733990	634.478131	17.442050
629.208965	43.620281	1024.385	
1.00000	22.733990	664.141659	17.442050
629.208965	51.905151	796.708565	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.684832	-153.074245	-15.136176
-555.442654	-70.522921	-2144.833	
0.25000	-18.684832	-126.151448	-15.136176
-555.453445	-60.461692	-2284.697	
0.50000	-18.684832	-100.222418	-15.136176
-555.483583	-57.762080	-2425.031	
0.75000	-18.684832	-76.707128	-15.136176
-578.352365	-58.503092	-2565.789	
1.00000	-18.684832	-62.887641	-15.136176
-603.165830	-68.119483	-2706.644	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.050187	669.989928	21.463404
786.833234	96.231039	2161.861	
0.25000	29.050187	696.696442	21.463404
790.145797	80.391139	1949.229	
0.50000	29.050187	724.799740	21.463404
793.458360	72.208528	1772.444	
0.75000	29.050187	753.806939	21.463404
796.770924	80.542962	1655.202	
1.00000	29.050187	783.209648	21.463404
800.083555	95.469851	1573.570	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.499506	-175.183565	-17.772361
-694.014437	-101.630508	-3200.910	
0.25000	-29.499506	-157.897281	-17.772361
-694.014437	-97.840879	-3639.901	
0.50000	-29.499506	-143.182315	-17.772361
-711.233715	-98.984993	-4146.682	
0.75000	-29.499506	-130.620158	-17.772361
-734.468547	-108.185065	-4724.531	
1.00000	-29.499506	-119.526170	-17.772361
-758.812821	-125.107644	-5377.914	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.050187	669.989928	21.463404
786.833234	96.231039	2161.861	
0.25000	29.050187	696.696442	21.463404
790.145797	80.391139	1949.229	
0.50000	29.050187	724.799740	21.463404
793.458360	72.208528	1772.444	
0.75000	29.050187	753.806939	21.463404
796.770924	80.542962	1655.202	
1.00000	29.050187	783.209648	21.463404
800.083555	95.469851	1573.570	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.499506	-175.183565	-17.772361
-694.014437	-101.630508	-3200.910	
0.25000	-29.499506	-157.897281	-17.772361
-694.014437	-97.840879	-3639.901	
0.50000	-29.499506	-143.182315	-17.772361
-711.233715	-98.984993	-4146.682	
0.75000	-29.499506	-130.620158	-17.772361
-734.468547	-108.185065	-4724.531	
1.00000	-29.499506	-119.526170	-17.772361
-758.812821	-125.107644	-5377.914	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.050187	669.989928	21.463404
786.833234	96.231039	2161.861	
0.25000	29.050187	696.696442	21.463404
790.145797	80.391139	1949.229	
0.50000	29.050187	724.799740	21.463404
793.458360	72.208528	1772.444	
0.75000	29.050187	753.806939	21.463404
796.770924	80.542962	1655.202	
1.00000	29.050187	783.209648	21.463404
800.083555	95.469851	1573.570	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.499506	-175.183565	-17.772361
-694.014437	-101.630508	-3200.910	
0.25000	-29.499506	-157.897281	-17.772361
-694.014437	-97.840879	-3639.901	
0.50000	-29.499506	-143.182315	-17.772361
-711.233715	-98.984993	-4146.682	
0.75000	-29.499506	-130.620158	-17.772361
-734.468547	-108.185065	-4724.531	
1.00000	-29.499506	-119.526170	-17.772361
-758.812821	-125.107644	-5377.914	

ELEM 20 ========== LENGTH = 3.491733

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.555256	438.459122	2.490303
487.721277	18.413992	385.415999	
0.25000	12.555256	455.861937	2.490303
487.721277	28.624255	326.100580	
0.50000	12.555256	473.711885	2.490303
487.721277	41.499178	338.551791	
0.75000	12.555256	491.880327	2.490303
487.721277	55.058417	351.031847	
1.00000	12.555256	509.915006	2.490303
487.721277	68.796316	363.525411	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.719663	-26.919165	-18.542309
-316.306173	-35.186722	-1444.788	
0.25000	-11.719663	-26.919165	-18.542309
-316.306173	-22.494082	-1552.747	
0.50000	-11.719663	-26.919165	-18.542309
-316.306173	-10.235122	-1660.730	
0.75000	-11.719663	-26.919165	-18.542309
-316.306173	-5.568855	-1768.921	
1.00000	-11.719663	-26.919165	-18.542309
-316.306173	-6.566220	-1877.532	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.176894	638.553924	42.522656
566.340404	13.201472	630.649473	
0.25000	23.176894	660.530247	42.522656
566.340404	15.430825	565.363796	
0.50000	23.176894	683.027676	42.522656
566.340404	17.861973	585.354457	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	23.176894	705.873405	42.522656
566.340404	21.023253	605.380012	
1.00000	23.176894	728.522086	42.522656
566.340404	24.801173	625.424032	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.497715	-55.445730	-15.721922
-499.774124	-68.697773	-2329.489	
0.25000	-15.497715	-46.938812	-15.721922
-499.774124	-90.974942	-2470.101	
0.50000	-15.497715	-46.938812	-15.721922
-499.774124	-113.567824	-2611.097	
0.75000	-15.497715	-46.938812	-15.721922
-499.774124	-136.187206	-2752.106	
1.00000	-15.497715	-46.938812	-15.721922
-499.774124	-171.082230	-2893.285	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.491516	649.324076	30.158220
604.875365	13.930031	777.877010	
0.25000	20.491516	669.506282	30.158220
604.875365	14.970144	722.445600	
0.50000	20.491516	690.163830	30.158220
604.875365	16.056148	744.942446	
0.75000	20.491516	711.137260	30.158220
604.875365	17.380877	767.470772	
1.00000	20.491516	731.925457	30.158220
604.875365	19.488304	790.014274	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.539236	-75.801221	-13.967084
-591.307703	-58.078373	-2705.840	
0.25000	-16.539236	-67.292025	-13.967084
-591.307703	-69.470550	-2827.522	
0.50000	-16.539236	-67.292025	-13.967084
-591.307703	-82.569094	-2949.830	
0.75000	-16.539236	-67.292025	-13.967084
-591.307703	-95.803580	-3072.592	
1.00000	-16.539236	-67.292025	-13.967084
-591.307703	-119.192331	-3195.457	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.407895	569.953221	27.509421
615.090793	32.585354	796.487179	
0.25000	21.407895	586.779960	27.509421
615.090793	47.173120	751.557272	
0.50000	21.407895	604.002916	27.509421
615.090793	65.693281	771.589056	
0.75000	21.407895	621.489312	27.509421
615.090793	85.786689	791.650672	
1.00000	21.407895	638.821775	27.509421
615.090793	106.768586	811.732787	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.424937	-93.085216	-33.978443
-636.161116	-49.759439	-2559.634	
0.25000	-19.424937	-85.970070	-33.978443
-636.161116	-59.389519	-2643.354	
0.50000	-19.424937	-85.970070	-33.978443
-636.161116	-70.454331	-2728.175	
0.75000	-19.424937	-85.970070	-33.978443
-636.161116	-81.670491	-2814.084	
1.00000	-19.424937	-85.970070	-33.978443
-636.161116	-101.557192	-2900.583	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.269468	163.595610	45.086555
76.145715	3.976064	259.696825	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	10.269468	163.605583	45.086555
76.117292	3.847369	267.166297	
0.50000	10.269468	163.615707	45.086555
76.093070	3.784023	274.661424	
0.75000	10.269468	163.625891	45.086555
76.076437	3.734825	282.158386	
1.00000	10.269468	163.635935	45.086555
76.076437	3.717388	289.655370	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.577501	-21.797593	-0.265422
-211.851057	-28.381159	-907.298119	
0.25000	-2.577501	-21.788080	-0.265422
-211.877316	-67.484386	-926.926967	
0.50000	-2.577501	-21.779223	-0.265422
-211.906465	-106.777316	-946.567746	
0.75000	-2.577501	-21.773378	-0.265422
-211.935998	-146.075017	-966.600754	
1.00000	-2.577501	-21.770287	-0.265422
-211.966327	-185.372727	-986.732890	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.550536	223.960362	33.582349
200.815455	16.738496	474.523523	
0.25000	10.550536	223.970335	33.582349
200.823032	30.760329	485.667730	
0.50000	10.550536	223.980459	33.582349
200.798810	45.519109	496.860162	
0.75000	10.550536	223.990643	33.582349
200.782177	60.461890	508.059347	
1.00000	10.550536	224.000897	33.582349
200.782177	75.489773	519.269296	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.411920	-57.587800	-17.623786
-375.493782	-23.099941	-1465.859	
0.25000	-8.411920	-57.578346	-17.623786
-375.520041	-49.518980	-1471.143	
0.50000	-8.411920	-57.569489	-17.623786
-375.549190	-77.858604	-1477.010	
0.75000	-8.411920	-57.563645	-17.623786
-375.578723	-106.397300	-1483.757	
1.00000	-8.411920	-57.560554	-17.623786
-375.609052	-135.004496	-1490.828	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.105125	520.995972	46.904167
442.961288	18.627359	731.475547	
0.25000	17.105125	538.108364	46.904167
440.757891	30.629443	692.502067	
0.50000	17.105125	555.554582	46.904167
440.757891	43.338805	711.992901	
0.75000	17.105125	573.189417	46.904167
440.757891	56.410545	731.431916	
1.00000	17.105125	590.627438	46.904167
440.757891	69.604783	750.932778	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.525474	-95.719156	-21.021690
-517.173434	-48.813034	-2404.671	
0.25000	-15.525474	-84.557416	-21.021690
-517.173434	-74.252878	-2479.941	
0.50000	-15.525474	-75.193229	-21.021690
-517.173434	-112.237994	-2555.784	
0.75000	-15.525474	-72.760644	-21.021690
-517.173434	-151.318811	-2632.896	
1.00000	-15.525474	-72.760644	-21.021690
-527.659927	-190.543909	-2710.426	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.006472	458.158258	42.514183
482.053486	34.459240	752.181551	
0.25000	19.006472	472.411781	42.514183
480.218198	43.377323	720.330245	
0.50000	19.006472	486.943360	42.514183
480.218198	54.658491	737.142390	
0.75000	19.006472	501.632044	42.514183
480.218198	68.662172	753.977220	
1.00000	19.006472	516.156795	42.514183
480.218198	84.615731	770.844203	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.530828	-107.003935	-24.394577
-580.008949	-41.615839	-2261.421	
0.25000	-17.530828	-97.706923	-24.394577
-580.008949	-62.854099	-2305.421	
0.50000	-17.530828	-89.907157	-24.394577
-580.008949	-94.579126	-2350.337	
0.75000	-17.530828	-87.880970	-24.394577
-580.008949	-127.166818	-2396.858	
1.00000	-17.530828	-87.880970	-24.394577
-588.743524	-161.676512	-2444.387	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.549506	34.662345	7.446523
173.403495	29.583070	213.929390	
0.25000	7.549506	34.672323	7.446523
173.374807	25.393394	214.315526	
0.50000	7.549506	34.682451	7.446523
173.350399	21.469314	214.727027	
0.75000	7.549506	34.692640	7.446523
173.333532	17.668525	215.177614	
1.00000	7.549506	34.702688	7.446523
173.333532	15.911572	215.653475	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.815208	-40.265226	-2.862795
-232.333066	-13.608587	-361.957666	
0.25000	-7.815208	-40.255706	-2.862795
-232.359742	-5.412143	-333.097186	
0.50000	-7.815208	-40.246815	-2.862795
-232.388938	-7.743022	-305.268540	
0.75000	-7.815208	-40.240965	-2.862795
-232.418515	-10.487173	-278.343170	
1.00000	-7.815208	-40.237839	-2.862795
-232.448945	-13.604429	-252.486460	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.222426	81.091857	10.071633
297.267576	54.129153	398.470140	
0.25000	12.222426	81.101830	10.071633
297.239153	76.516354	401.387925	
0.50000	12.222426	81.111954	10.071633
297.214932	100.643367	404.333276	
0.75000	12.222426	81.122138	10.071633
297.198298	125.654438	407.307036	
1.00000	12.222426	81.132182	10.071633
297.198298	153.193380	410.343725	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.439132	-76.981597	-37.386796
-395.131060	-3.782139	-800.026456	
0.25000	-15.439132	-76.972083	-37.386796
-395.157319	-4.848418	-754.442256	
0.50000	-15.439132	-76.963226	-37.386796
-395.186469	-5.979339	-710.446392	
0.75000	-15.439132	-76.957382	-37.386796
-395.216002	-8.419029	-668.009456	
1.00000	-15.439132	-76.954291	-37.386796
-395.246330	-14.092468	-627.546423	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.759599	175.255572	17.789626
338.138238	43.924835	574.735107	
0.25000	12.759599	175.264548	17.789626
338.105658	51.971612	582.942348	
0.50000	12.759599	175.273659	17.789626
338.083858	61.246245	591.173390	
0.75000	12.759599	175.282825	17.789626
338.068888	71.305801	599.426880	
1.00000	12.759599	175.291964	17.789626
338.068888	83.633569	607.736880	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.154007	-86.627869	-19.349786
-505.893799	-9.537590	-1420.284	
0.25000	-14.154007	-86.619307	-19.349786
-505.917432	-16.647943	-1385.526	
0.50000	-14.154007	-86.611336	-19.349786
-505.943666	-25.278374	-1352.165	
0.75000	-14.154007	-86.606076	-19.349786
-505.970246	-34.342182	-1319.503	
1.00000	-14.154007	-86.603294	-19.349786
-505.997541	-48.496387	-1290.619	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.382375	370.571755	49.747703
448.406072	39.492455	711.791899	
0.25000	18.382375	380.668175	49.747703
427.364491	45.660656	693.855833	
0.50000	18.382375	390.938942	49.747703
412.470221	52.909435	707.237381	
0.75000	18.382375	401.295344	49.747703
412.470221	60.871592	722.001975	
1.00000	18.382375	411.522140	49.747703
412.470221	70.789601	736.144216	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.794680	-110.370983	-17.773208
-566.324744	-35.711616	-2017.225	
0.25000	-16.794680	-100.928264	-17.773208
-566.324744	-69.601105	-2032.247	
0.50000	-16.794680	-94.922788	-17.773208
-580.941172	-106.807029	-2048.443	
0.75000	-16.794680	-89.572027	-17.773208
-601.289180	-145.115300	-2066.107	
1.00000	-16.794680	-89.572027	-17.773208
-620.421771	-185.983537	-2085.039	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.967332	556.211649	4.192082
632.868309	20.467291	799.785143	
0.25000	15.967332	575.698172	4.192082
638.894233	28.955384	742.272782	
0.50000	15.967332	595.656477	4.192082
644.920157	42.320017	691.500055	
0.75000	15.967332	615.865298	4.192082
650.683803	66.348017	688.073638	
1.00000	15.967332	635.845835	4.192082
655.705802	98.766143	719.186528	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.256646	-60.595221	-38.330558
-436.721964	-63.328061	-2950.367	
0.25000	-23.256646	-52.803786	-38.330558
-436.721964	-38.350154	-3319.476	
0.50000	-23.256646	-47.179252	-38.330558
-436.721964	-16.634678	-3713.982	
0.75000	-23.256646	-46.837497	-38.330558
-436.459686	-8.191755	-4135.516	
1.00000	-23.256646	-46.843266	-38.330558
-435.455761	-10.376400	-4584.580	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.435703	811.367429	56.560417
740.778585	23.874600	1318.793	
0.25000	29.435703	834.725354	56.560417
743.097784	24.091951	1231.888	
0.50000	29.435703	858.636997	56.560417
745.417066	25.413673	1181.149	
0.75000	29.435703	882.684386	56.560417
747.736348	32.032877	1184.428	
1.00000	29.435703	907.028536	56.560417
749.932422	55.115337	1236.964	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.299974	-107.247808	-31.944816
-646.595603	-125.934683	-4595.978	
0.25000	-27.299974	-96.858947	-31.944816
-646.595603	-146.430149	-5221.322	
0.50000	-27.299974	-87.107693	-31.944816
-646.595603	-167.972096	-5783.151	
0.75000	-27.299974	-83.570557	-31.944816
-646.595603	-193.882976	-6384.964	
1.00000	-27.299974	-83.425355	-31.944816
-646.472492	-240.618211	-7022.311	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.339007	824.158552	45.306222
772.918882	27.479012	1573.480	
0.25000	27.339007	845.555345	45.306222
774.596140	28.624635	1512.743	
0.50000	27.339007	867.498772	45.306222
776.274436	31.289765	1482.394	
0.75000	27.339007	889.548551	45.306222
777.950773	37.634141	1501.011	
1.00000	27.339007	911.878688	45.306222
779.559301	59.604295	1565.819	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.031835	-139.950562	-30.822492
-749.319314	-106.806600	-5378.420	
0.25000	-27.031835	-130.322452	-30.822492
-749.319314	-119.442535	-5905.776	
0.50000	-27.031835	-121.294804	-30.822492
-749.319314	-134.469600	-6469.430	
0.75000	-27.031835	-117.574609	-30.822492
-749.319314	-151.246058	-7070.628	
1.00000	-27.031835	-117.429761	-30.822492
-749.250608	-187.796085	-7704.928	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.860856	720.839694	41.138409
791.271640	61.784499	1560.350	
0.25000	27.860856	738.674894	41.138409
792.669710	79.390289	1517.288	
0.50000	27.860856	756.965738	41.138409
794.068647	99.888593	1500.799	
0.75000	27.860856	775.345232	41.138409
795.465950	124.074086	1526.202	
1.00000	27.860856	793.958417	41.138409
796.806731	161.881524	1591.311	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-30.425219	-161.900706	-49.673756
-801.034527	-91.018125	-4986.142	
0.25000	-30.425219	-153.875238	-49.673756
-801.034527	-101.750361	-5423.938	
0.50000	-30.425219	-146.350282	-49.673756
-801.034527	-113.862522	-5893.646	
0.75000	-30.425219	-143.249331	-49.673756
-801.034527	-128.758495	-6396.193	
1.00000	-30.425219	-143.128594	-49.673756
-800.977258	-160.184380	-6927.923	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.911109	213.853789	59.675883
82.113547	7.603960	515.332857	
0.25000	12.911109	213.860301	59.675883
82.098976	7.275048	503.748371	
0.50000	12.911109	213.866995	59.675883
82.085229	6.315557	517.435071	
0.75000	12.911109	213.873834	59.675883
82.072439	6.704190	539.590477	
1.00000	12.911109	213.880730	59.675883
82.060749	6.477432	564.308683	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.909520	-39.744495	-0.226057
-222.422135	-54.961676	-1739.089	
0.25000	-2.909520	-39.740036	-0.226057
-222.435338	-106.661803	-1873.693	
0.50000	-2.909520	-39.735854	-0.226057
-222.449244	-158.379887	-2018.098	
0.75000	-2.909520	-39.732003	-0.226057
-222.463657	-210.116167	-2172.307	
1.00000	-2.909520	-39.728553	-0.226057
-222.478426	-261.884457	-2330.051	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.776463	287.151157	45.846591
235.543149	31.660525	902.529683	
0.25000	13.776463	287.157659	45.846591
235.528573	47.111241	906.075662	
0.50000	13.776463	287.164364	45.846591
235.514821	62.848699	935.593226	
0.75000	13.776463	287.171203	45.846591
235.502025	78.615360	974.725624	
1.00000	13.776463	287.178099	45.846591
235.490331	94.432728	1018.246	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.723940	-95.553327	-19.092266
-421.398907	-41.871088	-2764.161	
0.25000	-9.723940	-95.548867	-19.092266
-421.412116	-79.773976	-2927.545	
0.50000	-9.723940	-95.544684	-19.092266
-421.426028	-118.486180	-3103.111	
0.75000	-9.723940	-95.540832	-19.092266
-421.440448	-157.463671	-3290.034	
1.00000	-9.723940	-95.537381	-19.092266
-421.455223	-196.527106	-3482.251	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.043772	652.297438	57.688138
572.505255	36.467328	1445.527	
0.25000	23.043772	670.297720	57.688138
554.824621	48.872813	1418.707	
0.50000	23.043772	688.679033	57.688138
545.309041	61.499305	1410.518	
0.75000	23.043772	707.498096	57.688138
545.250209	74.198127	1420.808	
1.00000	23.043772	726.422785	57.688138
542.613008	87.496202	1479.480	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.128347	-156.016294	-25.259232
-627.321829	-93.709607	-4727.027	
0.25000	-21.128347	-145.874611	-25.259232
-628.839842	-131.038787	-5107.351	
0.50000	-21.128347	-136.348638	-25.259232
-631.824925	-173.414585	-5529.189	
0.75000	-21.128347	-127.611453	-25.259232
-637.249679	-216.115069	-5987.955	
1.00000	-21.128347	-122.018736	-25.259232
-662.769551	-259.387406	-6472.241	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.280796	574.328230	53.299769
634.016519	65.112375	1454.732	
0.25000	25.280796	589.323765	53.299769
619.287274	76.156070	1436.739	
0.50000	25.280796	604.636725	53.299769
614.692397	88.578735	1435.514	
0.75000	25.280796	620.314663	53.299769
611.311097	102.235799	1450.572	
1.00000	25.280796	636.079995	53.299769
609.114119	118.561790	1506.780	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.808176	-172.279542	-29.738872
-717.659443	-79.486686	-4370.242	
0.25000	-23.808176	-163.830788	-29.738872
-718.924058	-109.967776	-4681.689	
0.50000	-23.808176	-155.894965	-29.738872
-721.610847	-145.143149	-5008.307	
0.75000	-23.808176	-148.616260	-29.738872
-725.930058	-180.944559	-5408.905	
1.00000	-23.808176	-143.957122	-29.738872
-747.189954	-219.411751	-5811.076	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.204906	46.784932	14.972992
243.016326	50.604198	383.820644	
0.25000	11.204906	46.791445	14.972992
243.001733	41.253641	366.920859	
0.50000	11.204906	46.798140	14.972992
242.987966	33.395628	392.147832	
0.75000	11.204906	46.804981	14.972992
242.975156	28.184766	399.242454	
1.00000	11.204906	46.811878	14.972992
242.963448	26.644160	408.032450	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.734168	-61.927405	-5.058261
-309.474076	-5.764625	-601.880466	
0.25000	-9.734168	-61.922943	-5.058261
-309.487304	-5.961963	-591.090672	
0.50000	-9.734168	-61.918756	-5.058261
-309.501235	-7.926253	-583.363711	
0.75000	-9.734168	-61.914902	-5.058261
-309.515674	-12.597913	-578.007691	
1.00000	-9.734168	-61.911449	-5.058261
-309.530468	-20.206375	-574.764821	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.098776	102.046688	16.622879
405.192806	95.751935	706.368475	
0.25000	16.098776	102.053199	16.622879
405.178258	117.111919	721.541402	
0.50000	16.098776	102.059892	16.622879
405.164532	140.416180	740.766841	
0.75000	16.098776	102.066730	16.622879
405.151759	166.346908	763.551542	
1.00000	16.098776	102.073624	16.622879
405.140088	196.038475	789.378633	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.074426	-118.302684	-42.233851
-507.291643	-7.696074	-1385.423	
0.25000	-20.074426	-118.298230	-42.233851
-507.304821	-6.720645	-1382.530	
0.50000	-20.074426	-118.294051	-42.233851
-507.318701	-7.733759	-1385.370	
0.75000	-20.074426	-118.290204	-42.233851
-507.333089	-11.732308	-1392.935	
1.00000	-20.074426	-118.286757	-42.233851
-507.347831	-19.810042	-1404.421	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.016940	224.359365	32.160354
430.431883	80.210827	1038.609	
0.25000	18.016940	224.429683	32.160354
430.274700	88.608587	1061.874	
0.50000	18.016940	224.501971	32.160354
430.126400	98.780071	1093.552	
0.75000	18.016940	224.575823	32.160354
429.988420	111.255376	1131.376	
1.00000	18.016940	224.650281	32.160354
429.862313	127.052083	1172.991	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.359073	-137.839841	-25.146624
-616.922476	-20.790617	-2563.578	
0.25000	-17.359073	-137.791727	-25.146624
-617.064867	-34.930560	-2652.418	
0.50000	-17.359073	-137.746584	-25.146624
-617.214846	-51.063181	-2751.654	
0.75000	-17.359073	-137.705026	-25.146624
-617.370300	-70.241532	-2858.890	
1.00000	-17.359073	-137.667791	-25.146624
-617.529585	-93.027598	-2970.938	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.394909	465.589888	65.674937
584.539625	73.317200	1363.524	
0.25000	26.394909	476.184008	65.674937
564.348750	79.130821	1356.626	
0.50000	26.394909	487.048897	65.674937
545.218942	86.455737	1366.741	
0.75000	26.394909	498.154413	65.674937
530.042968	95.730194	1384.320	
1.00000	26.394909	509.337004	65.674937
527.653223	108.052681	1434.718	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.370738	-170.704769	-23.216127
-699.288810	-72.092678	-3856.733	
0.25000	-21.370738	-164.044696	-23.216127
-714.811412	-115.368657	-4095.171	
0.50000	-21.370738	-157.779897	-23.216127
-733.417502	-160.370206	-4353.065	
0.75000	-21.370738	-152.039485	-23.216127
-752.715455	-207.862080	-4630.087	
1.00000	-21.370738	-146.918445	-23.216127
-772.561809	-258.637554	-4928.718	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.176894	649.324076	49.747703
615.090793	54.129153	796.467179	
0.25000	23.176894	669.506282	49.747703
615.090793	76.516354	751.557272	
0.50000	23.176894	690.163830	49.747703
615.090793	100.643367	771.589056	
0.75000	23.176894	711.137260	49.747703
615.090793	125.654438	791.650672	
1.00000	23.176894	731.925457	49.747703
615.090793	153.193380	811.732787	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.424937	-110.370983	-37.386796
-636.161116	-68.697773	-2705.840	
0.25000	-19.424937	-100.928264	-37.386796
-636.161116	-90.974942	-2827.522	
0.50000	-19.424937	-94.922788	-37.386796
-636.161116	-113.567824	-2949.830	
0.75000	-19.424937	-89.572027	-37.386796
-636.161116	-141.318811	-3077.592	
1.00000	-19.424937	-89.572027	-37.386796
-636.161116	-190.543909	-3195.457	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.435703	824.158552	65.674937
791.271640	95.751935	1573.480	
0.25000	29.435703	845.555345	65.674937
792.669710	117.111919	1517.288	
0.50000	29.435703	867.498772	65.674937
794.068647	140.416180	1500.799	
0.75000	29.435703	889.548551	65.674937
795.465950	166.346908	1526.202	
1.00000	29.435703	911.878688	65.674937
796.806731	196.038475	1591.311	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-30.425219	-172.279542	-49.673756
-801.034527	-125.934683	-5378.420	
0.25000	-30.425219	-164.044696	-49.673756
-801.034527	-146.430149	-5905.776	
0.50000	-30.425219	-157.779897	-49.673756
-801.034527	-173.414585	-6469.430	
0.75000	-30.425219	-152.039485	-49.673756
-801.034527	-216.115069	-7070.628	
1.00000	-30.425219	-146.918445	-49.673756
-800.977258	-261.884457	-7704.928	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.435703	824.158552	65.674937
791.271640	95.751935	1573.480	
0.25000	29.435703	845.555345	65.674937
792.669710	117.111919	1517.288	
0.50000	29.435703	867.498772	65.674937
794.068647	140.416180	1500.799	
0.75000	29.435703	889.548551	65.674937
795.465950	166.346908	1526.202	
1.00000	29.435703	911.878688	65.674937
796.806731	196.038475	1591.311	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-30.425219	-172.279542	-49.673756
-801.034527	-125.934683	-5378.420	
0.25000	-30.425219	-164.044696	-49.673756
-801.034527	-146.430149	-5905.776	
0.50000	-30.425219	-157.779897	-49.673756
-801.034527	-173.414585	-6469.430	
0.75000	-30.425219	-152.039485	-49.673756
-801.034527	-216.115069	-7070.628	
1.00000	-30.425219	-146.918445	-49.673756
-800.977258	-261.884457	-7704.928	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.435703	824.158552	65.674937
791.271640	95.751935	1573.480	
0.25000	29.435703	845.555345	65.674937
792.669710	117.111919	1517.288	
0.50000	29.435703	867.498772	65.674937
794.068647	140.416180	1500.799	
0.75000	29.435703	889.548551	65.674937
795.465950	166.346908	1526.202	
1.00000	29.435703	911.878688	65.674937
796.806731	196.038475	1591.311	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-30.425219	-172.279542	-49.673756
-801.034527	-125.934683	-5378.420	
0.25000	-30.425219	-164.044696	-49.673756
-801.034527	-146.430149	-5905.776	
0.50000	-30.425219	-157.779897	-49.673756
-801.034527	-173.414585	-6469.430	
0.75000	-30.425219	-152.039485	-49.673756
-801.034527	-216.115069	-7070.628	
1.00000	-30.425219	-146.918445	-49.673756
-800.977258	-261.884457	-7704.928	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 21 ========== LENGTH = 3.491348

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.737151	29.338107	18.521908
314.946138	68.823591	362.766029	
0.25000	19.737151	29.338107	18.521908
314.946138	55.015000	337.180414	
0.50000	19.737151	29.338107	18.521908
314.946138	41.447950	311.594799	
0.75000	19.737151	29.338107	18.521908
314.946138	28.705945	292.876684	
1.00000	19.737151	29.338107	18.521908
314.946138	16.239867	380.932718	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.148841	-510.181740	-2.487475
-490.857639	-6.512885	-1913.303	
0.25000	-19.148841	-492.223170	-2.487475
-490.857639	-5.431590	-1724.345	
0.50000	-19.148841	-474.127843	-2.487475
-490.857639	-9.591896	-1617.237	
0.75000	-19.148841	-456.345579	-2.487475
-490.857639	-21.792885	-1510.461	
1.00000	-19.148841	-439.003421	-2.487475
-490.857639	-34.421813	-1403.999	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	32.285751	51.150998	15.650203
498.577533	24.745143	627.417450	
0.25000	32.285751	51.150998	15.650203
498.577533	20.707897	583.101198	
0.50000	32.285751	51.150998	15.650203
498.577533	17.480671	538.784947	
0.75000	32.285751	51.150998	15.650203
498.577533	14.981586	508.201325	
1.00000	32.285751	56.611740	15.650203
498.577533	12.752563	611.703288	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.051812	-729.091178	-42.522786
-569.688848	-170.994089	-2941.350	
0.25000	-26.051812	-706.531212	-42.522786
-569.688848	-135.458984	-2672.225	
0.50000	-26.051812	-683.770222	-42.522786
-569.688848	-112.780183	-2533.225	
0.75000	-26.051812	-661.350869	-42.522786
-569.688848	-90.123079	-2394.709	
1.00000	-26.051812	-639.445207	-42.522786
-569.688848	-67.755415	-2256.210	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.297504	70.800586	13.899984
591.020242	19.243381	793.022579	
0.25000	29.297504	70.800586	13.899984
591.020242	16.758086	736.945763	
0.50000	29.297504	70.800586	13.899984
591.020242	15.291609	680.868947	
0.75000	29.297504	70.800586	13.899984
591.020242	14.223160	642.962883	
1.00000	29.297504	76.524161	13.899984
591.020242	13.214192	731.907793	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.199772	-732.997695	-30.087329
-607.710766	-118.626267	-2936.309	
0.25000	-26.199772	-712.294097	-30.087329
-607.710766	-94.695338	-2966.833	
0.50000	-26.199772	-691.397928	-30.087329
-607.710766	-81.462568	-2846.617	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-26.199772	-670.811534	-30.087329
-607.710766	-68.699071	-2727.353	
1.00000	-26.199772	-650.693781	-30.087329
-607.710766	-57.375323	-2608.487	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.855966	88.993749	33.966520
637.584900	106.592767	814.110952	
0.25000	30.855966	88.993749	33.966520
637.584900	85.254581	756.485674	
0.50000	30.855966	88.993749	33.966520
637.584900	65.021818	698.860719	
0.75000	30.855966	88.993749	33.966520
637.584900	46.464877	661.789283	
1.00000	30.855966	93.786759	33.966520
637.584900	31.876866	735.197426	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.331588	-640.529969	-27.595905
-616.704983	-100.800517	-2926.251	
0.25000	-29.331588	-623.267530	-27.595905
-616.704983	-80.628853	-2701.239	
0.50000	-29.331588	-605.845727	-27.595905
-616.704983	-69.327055	-2617.817	
0.75000	-29.331588	-588.682878	-27.595905
-616.704983	-58.576495	-2535.803	
1.00000	-29.331588	-571.909064	-27.595905
-616.704983	-48.816521	-2454.788	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.918085	23.906741	0.285033
212.669970	3.530794	292.797406	
0.25000	10.918085	23.908788	0.285033
212.639638	3.411299	272.055883	
0.50000	10.918085	23.914617	0.285033
212.610105	3.422414	251.314360	
0.75000	10.918085	23.923482	0.285033
212.580945	3.522895	234.668153	
1.00000	10.918085	23.932967	0.285033
212.554693	3.681902	233.233394	

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.251704 -164.111386 -45.081394
-75.807598 -185.330252 -994.152453
0.25000 -4.251704 -164.101368 -45.081394
-75.807598 -146.042110 -925.852872
0.50000 -4.251704 -164.091209 -45.081394
-75.823267 -106.754056 -907.031762
0.75000 -4.251704 -164.081107 -45.081394
-75.847525 -67.466087 -888.389762
1.00000 -4.251704 -164.071155 -45.081394
-75.875826 -28.401196 -869.754621

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.801615 58.629549 17.681158
377.528901 75.161599 522.779623
0.25000 12.801615 58.631596 17.681158
377.498569 59.905360 485.720848
0.50000 12.801615 58.637425 17.681158
377.469036 44.914856 448.662072
0.75000 12.801615 58.646290 17.681158
377.439876 30.192654 422.201584
1.00000 12.801615 58.655774 17.681158
377.413623 16.209231 417.380245

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.993965 -225.223383 -33.570699
-200.060839 -134.423992 -1491.832
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
547

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -10.993965 -225.213365 -33.570699
-200.060839 -105.841553 -1407.858
0.50000 -10.993965 -225.203205 -33.570699
-200.076507 -77.318798 -1402.807
0.75000 -10.993965 -225.193103 -33.570699
-200.100766 -49.562055 -1398.692
1.00000 -10.993965 -225.183152 -33.570699
-200.129067 -23.061233 -1395.441

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 24.260380 75.580028 21.030866
529.273613 69.224050 754.822708
0.25000 24.260380 75.580028 21.030866
517.936653 55.728028 701.395551
0.50000 24.260380 75.951801 21.030866
517.936653 42.682640 647.968394
0.75000 24.260380 85.284643 21.030866
517.936653 29.966425 623.372329
1.00000 24.260380 96.436344 21.030866
517.936653 17.999138 677.604881

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -23.039174 -591.916955 -46.894191
-442.208252 -190.085363 -2735.620
0.25000 -23.039174 -574.535967 -46.894191
-442.208252 -150.762552 -2529.567
0.50000 -23.039174 -556.955372 -46.894191
-442.208252 -111.567089 -2454.977
0.75000 -23.039174 -539.558461 -46.894191
-442.208252 -74.254635 -2381.190
1.00000 -23.039174 -522.492048 -46.894191
-443.059952 -48.156491 -2308.536

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 27.390262 90.328481 24.405004
592.067854 84.329708 774.273148
0.25000 27.390262 90.328481 24.405004
582.624895 67.995507 719.410434
0.50000 27.390262 90.681144 24.405004
582.624895 54.132573 664.547721
0.75000 27.390262 98.411802 24.405004
582.624895 42.647589 639.007795
1.00000 27.390262 107.700451 24.405004
582.624895 33.730443 684.200438

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -26.308637 -518.103272 -42.568708
-480.454880 -160.887444 -2455.663
0.25000 -26.308637 -503.626002 -42.568708
-480.454880 -126.574189 -2287.018
0.50000 -26.308637 -488.982520 -42.568708
-480.454880 -93.932180 -2242.750
0.75000 -26.308637 -474.492011 -42.568708
-480.454880 -62.538978 -2199.756
1.00000 -26.308637 -460.276786 -42.568708
-481.164292 -40.746486 -2158.149

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.485005 40.359095 2.965026
235.711442 15.973127 216.421571
0.25000 11.485005 40.361177 2.965026
235.681008 17.569842 201.000853
0.50000 11.485005 40.367013 2.965026
235.651430 21.298616 185.580134
0.75000 11.485005 40.375911 2.965026
235.622225 25.145543 178.128048
1.00000 11.485005 40.385402 2.965026
235.595554 29.252372 178.684278
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
548

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.782556 -36.030045 -7.330261
-171.751770 -13.606758 -236.830121
0.25000 -11.782556 -36.020023 -7.330261
-171.751770 -10.472459 -242.940219
0.50000 -11.782556 -36.009859 -7.330261
-171.767671 -7.706436 -269.999053
0.75000 -11.782556 -35.999752 -7.330261
-171.791984 -5.349964 -298.043218
1.00000 -11.782556 -35.989796 -7.330261
-171.820683 -3.496038 -327.106377

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.157191 77.234297 37.360592
400.005028 153.340567 411.058014
0.25000 18.157191 77.236344 37.360592
399.974696 125.481057 381.818871
0.50000 18.157191 77.242174 37.360592
399.945162 100.411946 352.579728
0.75000 18.157191 77.251038 37.360592
399.916003 76.217945 337.543108
1.00000 18.157191 77.260523 37.360592
399.889750 53.754010 336.394049

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -20.989103 -83.294471 -10.041351
-294.994754 -13.517576 -604.368412
0.25000 -20.989103 -83.284453 -10.041351
-294.994754 -7.905302 -602.181560
0.50000 -20.989103 -83.274293 -10.041351
-295.010423 -5.451573 -645.201891
0.75000 -20.989103 -83.264192 -10.041351
-295.034681 -4.129479 -689.841760
1.00000 -20.989103 -83.254240 -10.041351
-295.062982 -3.266357 -736.252296

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.303314 87.097111 19.374834
510.892393 83.520380 610.600642
0.25000 18.303314 87.098953 19.374834
510.865095 70.719163 567.229646
0.50000 18.303314 87.104202 19.374834
510.838515 60.576871 523.858651
0.75000 18.303314 87.112178 19.374834
510.812271 51.267889 497.293198
1.00000 18.303314 87.120714 19.374834
510.788643 43.174901 491.422529

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.516419 -177.673681 -17.642069
-335.875326 -47.489338 -1271.774
0.25000 -19.516419 -177.664665 -17.642069
-335.875326 -34.487347 -1226.944
0.50000 -19.516419 -177.655521 -17.642069
-335.889427 -24.635707 -1259.877
0.75000 -19.516419 -177.646429 -17.642069
-335.911260 -16.360941 -1294.591
1.00000 -19.516419 -177.637473 -17.642069
-335.936731 -9.370642 -1331.169

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.069565 91.554270 17.760060
624.623314 70.607915 740.180981
0.25000 26.069565 91.554270 17.760060
605.513009 60.205220 687.684995
0.50000 26.069565 95.763037 17.760060
585.179967 52.179947 635.189010
0.75000 26.069565 101.778636 17.760060
570.068717 44.917825 612.199037
1.00000 26.069565 111.188245 17.760060
570.068717 38.721087 637.034587
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
549

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -24.860648 -413.683236 -49.625875
-411.626597 -185.181631 -2085.017
0.25000 -24.860648 -403.486313 -49.625875
-411.626597 -144.363222 -1958.501
0.50000 -24.860648 -393.158260 -49.625875
-411.626597 -106.124296 -1942.628
0.75000 -24.860648 -382.913008 -49.625875
-425.646876 -69.291027 -1928.449
1.00000 -24.860648 -372.840911 -49.625875
-446.749082 -35.248074 -1915.796

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 25.303204 50.663854 38.393851
435.333458 98.746433 722.889851
0.25000 25.303204 50.679117 38.393851
436.333946 66.251710 685.739423
0.50000 25.303204 51.004178 38.393851
436.591909 42.183661 688.486038
0.75000 25.303204 55.658054 38.393851
436.591909 28.830028 735.485649
1.00000 25.303204 63.405150 38.393851
436.591909 20.294715 789.089525

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -41.902987 -642.018681 -4.269268
-659.271115 -10.306945 -4599.547
0.25000 -41.902987 -621.878282 -4.269268
-654.246344 -7.996869 -4146.215
0.50000 -41.902987 -601.699333 -4.269268
-648.479048 -16.190243 -3719.780
0.75000 -41.902987 -581.767560 -4.269268
-642.453789 -37.872372 -3320.047
1.00000 -41.902987 -562.305670 -4.269268
-636.428530 -62.818879 -2945.326

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 48.560418 89.864012 31.975296
644.565972 55.023566 1243.476
0.25000 48.560418 90.010506 31.975296
644.688439 31.582207 1179.969
0.50000 48.560418 92.449017 31.975296
644.688439 25.074770 1171.791
0.75000 48.560418 102.181935 31.975296
644.688439 23.722523 1214.494
1.00000 48.560418 112.492452 31.975296
644.688439 23.506349 1297.968

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -49.190550 -916.795284 -56.664753
-756.658663 -240.476285 -7030.677
0.25000 -49.190550 -892.486430 -56.664753
-754.462201 -193.323760 -6386.245
0.50000 -49.190550 -868.246011 -56.664753
-752.144432 -167.301929 -5776.507
0.75000 -49.190550 -844.341308 -56.664753
-749.824149 -145.691399 -5206.002
1.00000 -49.190550 -821.032752 -56.664753
-747.505213 -125.120339 -4671.478

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 44.567329 125.791558 30.897626
747.227733 59.500428 1571.929
0.25000 44.567329 125.951586 30.897626
747.296082 37.200680 1492.034
0.50000 44.567329 128.661623 30.897626
747.296082 30.901720 1463.684
0.75000 44.567329 137.672228 30.897626
747.296082 28.177831 1482.623
1.00000 44.567329 147.219268 30.897626
747.296082 26.866308 1536.880
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
550

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -47.046384 -925.969463 -45.516352
-786.041775 -187.420047 -7713.119
0.25000 -47.046384 -903.672036 -45.516352
-784.433075 -150.228963 -7068.157
0.50000 -47.046384 -881.445074 -45.516352
-782.756594 -132.650569 -6455.300
0.75000 -47.046384 -859.524764 -45.516352
-781.078812 -118.247176 -5879.079
1.00000 -47.046384 -838.155289 -45.516352
-779.401745 -105.605325 -5338.399

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 45.256072 152.264471 49.762556
801.301528 161.755168 1595.535
0.25000 45.256072 152.397861 49.762556
801.358500 123.656815 1513.362
0.50000 45.256072 154.656801 49.762556
801.358500 99.527156 1475.453
0.75000 45.256072 162.167549 49.762556
801.358500 78.965135 1479.362
1.00000 45.256072 170.125442 49.762556
801.358500 61.169553 1514.878

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -52.003990 -810.449657 -41.479102
-801.825894 -159.696213 -6936.441
0.25000 -52.003990 -791.863737 -41.479102
-800.484970 -127.705090 -6391.525
0.50000 -52.003990 -773.336553 -41.479102
-799.087546 -112.719026 -5875.013
0.75000 -52.003990 -755.064978 -41.479102
-797.689039 -100.436789 -5390.446
1.00000 -52.003990 -737.252549 -41.479102
-796.291127 -89.526452 -4937.016

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.917487 42.931688 0.250321
220.456036 6.370355 566.735071
0.25000 22.917487 42.935107 0.250321
220.441269 6.524317 536.367284
0.50000 22.917487 42.938964 0.250321
220.426871 6.759470 508.090324
0.75000 22.917487 42.943137 0.250321
220.412961 7.043781 489.371782
1.00000 22.917487 42.947590 0.250321
220.399733 7.355666 500.097287

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.661167 -218.276295 -59.750470
-84.595652 -261.799698 -2322.258
0.25000 -5.661167 -218.269407 -59.750470
-84.607338 -209.958570 -2161.102
0.50000 -5.661167 -218.262573 -59.750470
-84.620118 -158.150636 -2003.286
0.75000 -5.661167 -218.255860 -59.750470
-84.633886 -106.362468 -1854.481
1.00000 -5.661167 -218.249354 -59.750470
-84.648449 -54.591398 -1715.416

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 23.036371 101.197974 19.167543
420.437285 94.231020 1020.119
0.25000 23.036371 101.201414 19.167543
420.422512 78.287870 965.245382
0.50000 23.036371 101.205252 19.167543
420.408107 62.460146 914.333063
0.75000 23.036371 101.209426 19.167543
420.394191 46.679735 875.342545
1.00000 23.036371 101.213879 19.167543
420.380957 31.192848 868.057644
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
551

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.143846 -297.774996 -46.056068
-237.911951 -196.161592 -3478.573
0.25000 -15.143846 -297.768106 -46.056068
-237.923642 -156.920132 -3277.740
0.50000 -15.143846 -297.761273 -46.056068
-237.936427 -117.792186 -3081.601
0.75000 -15.143846 -297.754559 -46.056068
-237.950201 -79.078511 -2896.260
1.00000 -15.143846 -297.748053 -46.056068
-237.964768 -40.956442 -2722.742

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 39.479281 130.177298 25.348797
661.129809 87.25112 1484.206
0.25000 39.479281 135.027781 25.348797
635.599864 73.805021 1410.433
0.50000 39.479281 143.750641 25.348797
629.812244 61.066138 1389.135
0.75000 39.479281 153.244277 25.348797
626.026479 48.440844 1386.017
1.00000 39.479281 163.346613 25.348797
625.302517 35.962443 1405.853

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -35.506519 -740.253691 -57.936341
-548.295859 -258.990935 -6473.575
0.25000 -35.506519 -721.361179 -57.936341
-550.929621 -215.533811 -5978.521
0.50000 -35.506519 -702.567711 -57.936341
-554.985664 -172.727966 -5508.109
0.75000 -35.506519 -684.065301 -57.936341
-560.499624 -130.295911 -5065.220
1.00000 -35.506519 -666.087361 -57.936341
-577.354285 -92.500451 -4660.541

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 43.224960 153.026590 29.852614
748.170206 118.350499 1509.886
0.25000 43.224960 157.067392 29.852614
726.901919 101.808415 1436.211
0.50000 43.224960 164.334164 29.852614
722.080414 88.148665 1407.259
0.75000 43.224960 172.243048 29.852614
719.593056 75.681696 1395.567
1.00000 43.224960 180.659023 29.852614
718.323486 64.430640 1405.251

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -39.610881 -652.358730 -53.665396
-613.565477 -218.862564 -5810.708
0.25000 -39.610881 -636.619904 -53.665396
-615.759591 -180.243433 -5395.002
0.50000 -39.610881 -620.963589 -53.665396
-619.138568 -144.274161 -5001.281
0.75000 -39.610881 -605.549746 -53.665396
-623.732095 -108.987584 -4631.518
1.00000 -39.610881 -590.572824 -53.665396
-637.773244 -77.859160 -4294.882

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 19.869187 65.449395 5.102137
313.131589 26.622065 406.861106
0.25000 19.869187 65.453238 5.102137
313.116796 28.062674 390.124067
0.50000 19.869187 65.457078 5.102137
313.102371 33.252543 375.289341
0.75000 19.869187 65.461255 5.102137
313.088437 41.072284 364.283681
1.00000 19.869187 65.465712 5.102137
313.075184 50.255304 357.208441
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
552

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.799167 -53.939547 -15.106988
-242.656656 -20.096973 -569.032340
0.25000 -14.799167 -53.932657 -15.106988
-242.668360 -12.354770 -564.504692
0.50000 -14.799167 -53.925823 -15.106988
-242.681159 -7.576520 -562.859823
0.75000 -14.799167 -53.919108 -15.106988
-242.694949 -5.490943 -563.362207
1.00000 -14.799167 -53.912601 -15.106988
-242.709533 -5.036312 -566.632023

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 27.016174 124.466895 42.309259
512.627294 195.986827 786.911727
0.25000 27.016174 124.470331 42.309259
512.612553 166.144155 748.362984
0.50000 27.016174 124.474165 42.309259
512.598180 140.230409 712.700465
0.75000 27.016174 124.478334 42.309259
512.584296 116.888071 684.050734
1.00000 27.016174 124.482782 42.309259
512.571093 95.296394 663.133317

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -30.833614 -114.963506 -16.913877
-404.521857 -19.396980 -1401.704
0.25000 -30.833614 -114.956620 -16.913877
-404.533526 -11.115309 -1374.866
0.50000 -30.833614 -114.949787 -16.913877
-404.546287 -6.958523 -1355.397
0.75000 -30.833614 -114.943076 -16.913877
-404.560034 -5.763477 -1340.350
1.00000 -30.833614 -114.936571 -16.913877
-404.574575 -6.396723 -1331.946

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 31.162652 145.609756 25.268417
620.970280 126.895719 1172.098
0.25000 31.162652 145.646872 25.268417
620.811011 110.870920 1114.290
0.50000 31.162652 145.688285 25.268417
620.655712 98.339669 1059.685
0.75000 31.162652 145.733100 25.268417
620.505699 88.106572 1015.148
1.00000 31.162652 145.781375 25.268417
620.363037 79.464593 983.390962

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -26.341715 -240.449736 -32.484283
-430.588559 -92.426886 -2964.724
0.25000 -26.341715 -240.375358 -32.484283
-430.714630 -69.412281 -2838.914
0.50000 -26.341715 -240.301656 -32.484283
-430.852498 -50.256978 -2717.096
0.75000 -26.341715 -240.229076 -32.484283
-431.001026 -33.771326 -2602.640
1.00000 -26.341715 -240.158821 -32.484283
-431.158125 -19.266999 -2498.099

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 45.515677 155.494142 23.309099
774.244020 107.861172 1436.592
0.25000 45.515677 160.618035 23.309099
754.403924 95.316959 1361.591
0.50000 45.515677 166.341436 23.309099
735.066310 85.995906 1335.308
0.75000 45.515677 172.574192 23.309099
716.488537 78.618225 1311.657
1.00000 45.515677 179.219167 23.309099
700.746144 72.600437 1310.304
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
553

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -34.670086 -525.666029 -65.965363
-531.360291 -258.083617 -4922.479
0.25000 -34.670086 -514.496899 -65.965363
-533.763261 -207.092394 -4602.315
0.50000 -34.670086 -503.397773 -65.965363
-548.450843 -159.561830 -4307.311
0.75000 -34.670086 -492.493305 -65.965363
-567.582604 -114.278296 -4033.857
1.00000 -34.670086 -481.905236 -65.965363
-587.768005 -70.667652 -3779.379

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 32.285751 91.554270 37.360592
637.584900 153.340567 814.110952
0.25000 32.285751 91.554270 37.360592
637.584900 125.481057 756.485674
0.50000 32.285751 95.763037 37.360592
637.584900 100.411946 698.860719
0.75000 32.285751 101.778636 37.360592
637.584900 76.217945 661.789283
1.00000 32.285751 111.188245 37.360592
637.584900 53.754010 735.197426

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -29.331588 -732.997695 -49.625875
-616.704983 -190.085363 -3236.309
0.25000 -29.331588 -712.294097 -49.625875
-616.704983 -150.762552 -2966.833

```
 0.50000   -29.331588  -691.397928   -49.625875
-616.704983  -112.780183   -2846.617
 0.75000   -29.331588  -670.811534   -49.625875
-616.704983   -90.123079   -2727.353
 1.00000   -29.331588  -650.693781   -49.625875
-616.704983   -67.755415   -2608.487

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   48.560418  155.494142   49.762556
801.301528  195.986827   1595.535
 0.25000   48.560418  160.618035   49.762556
801.358500  166.144155   1513.362
 0.50000   48.560418  166.341436   49.762556
801.358500  140.230409   1475.453
 0.75000   48.560418  172.574192   49.762556
801.358500  116.888071   1482.623
 1.00000   48.560418  180.659023   49.762556
801.358500   95.296394   1536.880

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -52.003990  -925.969463   -65.965363
-801.825894  -261.799698   -7713.119
 0.25000  -52.003990  -903.672036   -65.965363
-800.484970  -215.533811   -7068.157
 0.50000  -52.003990  -881.445074   -65.965363
-799.087546  -172.727966   -6455.300
 0.75000  -52.003990  -859.524764   -65.965363
-797.689039  -145.691399   -5879.079
 1.00000  -52.003990  -838.155289   -65.965363
-796.291127  -125.120339   -5338.399

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   48.560418  155.494142   49.762556
801.301528  195.986827   1595.535
 0.25000   48.560418  160.618035   49.762556
801.358500  166.144155   1513.362
 0.50000   48.560418  166.341436   49.762556
801.358500  140.230409   1475.453
 0.75000   48.560418  172.574192   49.762556
801.358500  116.888071   1482.623
 1.00000   48.560418  180.659023   49.762556
801.358500   95.296394   1536.880
  Program   SAP2000   Nonlinear   Version   7.42
            File:하행S11-S1503.OUT

                                      Page
<                  MOVING                  LOAD                  >
                                           554

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -52.003990  -925.969463   -65.965363
-801.825894  -261.799698   -7713.119
 0.25000  -52.003990  -903.672036   -65.965363
-800.484970  -215.533811   -7068.157
 0.50000  -52.003990  -881.445074   -65.965363
-799.087546  -172.727966   -6455.300
 0.75000  -52.003990  -859.524764   -65.965363
-797.689039  -145.691399   -5879.079
 1.00000  -52.003990  -838.155289   -65.965363
-796.291127  -125.120339   -5338.399

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   48.560418  155.494142   49.762556
801.301528  195.986827   1595.535
 0.25000   48.560418  160.618035   49.762556
801.358500  166.144155   1513.362
 0.50000   48.560418  166.341436   49.762556
801.358500  140.230409   1475.453
 0.75000   48.560418  172.574192   49.762556
801.358500  116.888071   1482.623
 1.00000   48.560418  180.659023   49.762556
801.358500   95.296394   1536.880

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -52.003990  -925.969463   -65.965363
-801.825894  -261.799698   -7713.119
 0.25000  -52.003990  -903.672036   -65.965363
-800.484970  -215.533811   -7068.157
 0.50000  -52.003990  -881.445074   -65.965363
-799.087546  -172.727966   -6455.300
 0.75000  -52.003990  -859.524764   -65.965363
-797.689039  -145.691399   -5879.079
 1.00000  -52.003990  -838.155289   -65.965363
-796.291127  -125.120339   -5338.399

 ELEM       22 ================== LENGTH
=     4.987373

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   19.337179   27.614877    5.402807
176.253786   15.978897   381.305411
 0.25000   19.337179   39.790601    5.402807
176.253786   14.086673   587.848400
 0.50000   19.337179   60.433151    5.402807
176.253786   14.260682   822.158154
 0.75000   19.337179   82.712687    5.402807
176.253786   14.001428   1027.277
 1.00000   19.337179  105.191120    5.402807
176.253786   18.881237   1203.294

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -18.964377  -439.338533   -3.733220
-552.929911   -33.587010   -1405.036
 0.25000  -18.964377  -414.174409   -3.733220
-552.929911   -36.998539   -1303.304
 0.50000  -18.964377  -388.292773   -3.733220
-552.929911   -40.772941   -1202.117
 0.75000  -18.964377  -363.218970   -3.733220
-552.929911   -44.601326   -1101.351
 1.00000  -18.964377  -339.486622   -3.733220
-552.929911   -48.594173   -1000.954

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   31.842112   48.333728    3.181085
312.557228   12.325956   611.957409
 0.25000   31.842112   66.507572    3.181085
312.557228   15.021140   884.937180
 0.50000   31.842112   92.662473    3.181085
312.557228   21.520942   1211.344
  Program   SAP2000   Nonlinear   Version   7.42
            File:하행S11-S1503.OUT

                                      Page
<                  MOVING                  LOAD                  >
                                           555

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000   31.842112  120.821120    3.181085
312.557228   40.566944   1542.832
 1.00000   31.842112  149.998303    3.181085
312.557228   60.579765   1858.971

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -26.008246  -641.705860   -17.479288
-635.029410   -67.180774   -2257.450
 0.25000  -26.008246  -609.486239   -17.479288
-635.029410   -57.338364   -2113.873
 0.50000  -26.008246  -577.231971   -17.479288
-635.029410   -56.639092   -1971.091
 0.75000  -26.008246  -545.943077   -17.479288
-635.029410   -57.445882   -1828.472
 1.00000  -26.008246  -516.260633   -17.479288
-635.029410   -59.055283   -1686.444

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   28.524138   62.254716    2.824903
454.906931   12.950806   732.156598
 0.25000   28.524138   79.151864    2.824903
454.906931   15.730217   969.921900
 0.50000   28.524138  103.177983    2.824903
454.906931   21.275086   1245.572
 0.75000   28.524138  129.039570    2.824903
454.906931   35.224854   1584.154
 1.00000   28.524138  155.907235    2.824903
454.906931   49.893237   1946.932

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -25.716016  -665.696556   -13.038392
-599.691840   -56.466375   -2609.384
 0.25000  -25.716016  -636.074584   -13.038392
-599.691840   -51.142415   -2471.438
 0.50000  -25.716016  -606.485253   -13.038392
-599.691840   -51.573458   -2334.213
 0.75000  -25.716016  -577.778434   -13.038392
-599.691840   -52.781779   -2197.226
 1.00000  -25.716016  -550.542378   -13.038392
-599.691840   -54.417629   -2061.008

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   29.748728   65.811320    9.608946
546.087557   30.881150   735.370451
 0.25000   29.748728   79.905313    9.608946
546.087557   28.932852   931.049583
 0.50000   29.748728   99.937073    9.608946
546.087557   31.141553   1158.285
 0.75000   29.748728  121.499001    9.608946
546.087557   41.628578   1437.984
 1.00000   29.748728  143.901834    9.608946
546.087557   53.196549   1747.288

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -28.637706  -592.951440   -11.172448
-560.223200   -47.962982   -2455.177
 0.25000  -28.637706  -568.253407   -11.172448
-560.223200   -43.385795   -2349.882
 0.50000  -28.637706  -543.584500   -11.172448
-560.223200   -50.226678   -2245.457
 0.75000  -28.637706  -519.651261   -11.172448
-560.223200   -59.742566   -2141.814
 1.00000  -28.637706  -496.944123   -11.172448
-560.223200   -69.828943   -2039.211

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.913509   23.284479    0.244747
185.343590    3.794874   233.149814
  Program   SAP2000   Nonlinear   Version   7.42
            File:하행S11-S1503.OUT

                                      Page
<                  MOVING                  LOAD                  >
                                           556

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000   10.913509   23.295310    0.244747
185.300757    3.770946   247.940232
 0.50000   10.913509   23.307332    0.244747
185.263723    5.764789   285.496820
 0.75000   10.913509   23.320154    0.244747
185.230295   21.683362   413.161747
 1.00000   10.913509   23.335168    0.244747
185.218033   37.933154   569.955889

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.542759  -157.166314   -13.192849
-50.864969   -28.851654   -869.783731
 0.25000   -4.542759  -154.107427   -13.192849
-50.879943   -15.606169   -836.361410
 0.50000   -4.542759  -157.137056   -13.192849
-50.911628   -11.032807   -803.103515
 0.75000   -4.542759  -157.123550   -13.192849
-50.951333    -8.044772   -769.891638
 1.00000   -4.542759  -157.110656   -13.192849
-50.996602    -5.964428   -736.844640

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.182842   42.549011    5.476473
389.503761   16.304505   417.355551
 0.25000   12.182842   42.559843    5.476473
389.460928   12.059313   425.257194
 0.50000   12.182842   42.571865    5.476473
389.423893   12.029828   451.335735
 0.75000   12.182842   42.584687    5.476473
389.390466   21.311224   589.146236
 1.00000   12.182842   42.599701    5.476473
389.378204   33.258230   802.265043

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -10.661303  -232.211703   -9.238713
-98.309259   -22.903058   -1395.127
 0.25000  -10.661303  -232.196296   -9.238713
-98.324233   -13.434180   -1361.986
 0.50000  -10.661303  -232.182445   -9.238713
-98.355918   -14.698454   -1328.997
 0.75000  -10.661303  -232.168939   -9.238713
-98.395624   -18.531869   -1296.447
 1.00000  -10.661303  -232.156045   -9.238713
-98.440893   -23.102562   -1264.308

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   23.472583   62.008168    5.533668
454.878932   18.145765   677.658164
 0.25000   23.472583   78.553550    5.533668
453.412231   14.473824   860.788666
 0.50000   23.472583   99.047608    5.533668
453.412231   20.406386   1061.825
 0.75000   23.472583  121.011026    5.533668
453.412231   36.444256   1329.115
 1.00000   23.472583  145.236399    5.533668
453.412231   53.022840   1630.337

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -22.653813  -559.719706   -14.090177
-382.518469   -47.465683   -2308.893
 0.25000  -22.653813  -533.963153   -14.090177
-382.518469   -39.883322   -2208.815

 0.50000  -22.653813  -509.513523   -14.090177
-382.518469   -40.978023   -2108.874
 0.75000  -22.653813  -485.735819   -14.090177
-405.576540   -44.359486   -2009.463
 1.00000  -22.653813  -463.110408   -14.090177
-438.978678   -48.453365   -1910.658
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                                     Page
<                  MOVING                  LOAD                  >
                                          557

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   26.240701   66.185125    8.359853
545.538668   32.704975   684.201221
 0.25000   26.240701   79.966365    8.359853
544.317001   29.415029   834.983160
 0.50000   26.240701   97.036599    8.359853
544.317001   33.997969   1000.740
 0.75000   26.240701  115.330714    8.359853
544.317001   46.843792   1221.596
 1.00000   26.240701  135.508893    8.359853
544.317001   60.245980   1474.766

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -25.490988  -497.559457   -12.140359
-388.718543   -40.144829   -2158.059
 0.25000  -25.490988  -476.105904   -12.140359
-388.718543   -34.240784   -2087.670
 0.50000  -25.490988  -455.740933   -12.140359
-388.718543   -39.312358   -2017.707
 0.75000  -25.490988  -435.935633   -12.140359
-407.924434   -46.620845   -1948.728
 1.00000  -25.490988  -417.090119   -12.140359
-435.746269   -54.575548   -1880.706

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.708919   23.512953    4.624547
253.530357   27.512073   178.611896
 0.25000   10.708919   23.523700    4.624547
253.487451   27.943248   176.415538
 0.50000   10.708919   23.535818    4.624547
253.450359   28.656284   174.238566
 0.75000   10.708919   23.548647    4.624547
253.416598   29.506618   172.069668
 1.00000   10.708919   23.563673    4.624547
253.403917   30.371814   178.516290

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.071840  -43.703468   -1.459610
-114.024543   -3.035092  -326.496829
 0.25000  -11.071840  -43.688051   -1.459610
-114.039715   -3.827837  -348.051882
 0.50000  -11.071840  -43.674196   -1.459610
-114.071812   -6.354064  -370.425289
 0.75000  -11.071840  -43.660685   -1.459610
-114.111577   -10.175921  -393.437477
 1.00000  -11.071840  -43.647786   -1.459610
-114.156920   -14.732026  -417.157822

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.901637   40.122752   15.150228
447.196429   51.553936  336.289817
 0.25000   16.901637   40.133584   15.150228
447.153596   43.255469  331.073170
 0.50000   16.901637   40.145606   15.150228
447.116562   40.321875  326.604418
 0.75000   16.901637   40.158428   15.150228
447.083134   40.359355  323.158056
 1.00000   16.901637   40.173442   15.150228
447.070872   40.973702  361.501809

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -20.165788  -102.045348   -1.538287
-173.057784   -3.547801  -735.279511
 0.25000  -20.165788  -102.029940   -1.538287
-173.072758   -4.656076  -761.979647
 0.50000  -20.165788  -102.016990   -1.538287
-173.104443   -16.580873  -789.780689
 0.75000  -20.165788  -102.002583   -1.538287
-173.144149   -32.873615  -818.779739
 1.00000  -20.165788  -101.989689   -1.538287
-173.189418   -50.370668  -848.829071
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                                     Page
<                  MOVING                  LOAD                  >
                                          558

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.948884   55.502675    9.699909
562.484602   41.425329  491.334718
 0.25000   16.948884   55.512424    9.699909
562.446052   38.123641  480.450283
 0.50000   16.948884   55.523244    9.699909
562.412721   37.202942  470.754087
 0.75000   16.948884   55.534783    9.699909
562.382637   38.307070  465.591533
 1.00000   16.948884   55.548296    9.699909
562.371601   42.982872  690.794923

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -18.404963  -199.155329   -3.485325
-178.595983   -9.294069   -1330.200
 0.25000  -18.404963  -199.141462   -3.485325
-178.609460   -8.509704   -1335.047
 0.50000  -18.404963  -199.128997   -3.485325
-178.637976   -14.719161   -1340.833
 0.75000  -18.404963  -199.116841   -3.485325
-178.673711   -23.491520   -1347.738
 1.00000  -18.404963  -199.105237   -3.485325
-178.714453   -33.124402   -1355.667

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   24.844656   65.913635    8.224556
609.115272   37.323662  637.230207
 0.25000   24.844656   76.379314    8.224556
584.286882   34.697361  741.235804
 0.50000   24.844656   88.512790    8.224556
560.409423   38.033371  856.510188
 0.75000   24.844656  101.482852    8.224556
560.409423   52.176725   1035.797
 1.00000   24.844656  116.242410    8.224556
560.409423   67.296263   1257.799

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -23.961430  -408.686761   -13.659606
-299.129230   -35.156441   -1915.346
 0.25000  -23.961430  -393.283297   -13.659606
-299.129230   -28.269906   -1871.592

 0.50000  -23.961430  -379.065094   -13.659606
-320.212352   -31.219794   -1828.617
 0.75000  -23.961430  -365.218766   -13.659606
-346.105466   -37.018024   -1786.710
 1.00000  -23.961430  -352.021438   -13.659606
-370.403349   -43.942708   -1745.682

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   24.838594   59.924676    7.049137
266.250028   19.913780   789.388998
 0.25000   24.838594   71.397272    7.049137
266.250028   18.878847   876.843134
 0.50000   24.838594   84.410472    7.049137
266.250028   19.427223   970.290371
 0.75000   24.838594   98.600398    7.049137
266.250028   21.531241   1063.436
 1.00000   24.838594  113.500485    7.049137
266.250028   24.172005   1152.161

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -41.693129  -508.406950   -3.697416
-710.973792   -61.723477   -2944.187
 0.25000  -41.693129  -481.841728   -3.697416
-702.366740   -66.182124   -2536.624
 0.50000  -41.693129  -455.608036   -3.697416
-693.759689   -71.370611   -2171.879
 0.75000  -41.693129  -430.122852   -3.697416
-685.152637   -77.335100   -1844.962
 1.00000  -41.693129  -405.870874   -3.697416
-676.545585   -83.777134   -1551.785
  Program   SAP2000   Nonlinear   Version   7.42
            File:하행S11-S1503.OUT

                                      Page
<                  MOVING                  LOAD                  >
                                           559

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   48.156383   99.175794    5.105124
429.129844   22.946306   1298.148
 0.25000   48.156383  113.575690    5.105124
429.129844   24.638731   1389.083
 0.50000   48.156383  129.895207    5.105124
429.129844   30.904960   1510.567
 0.75000   48.156383  147.709131    5.105124
429.129844   50.425149   1663.404
 1.00000   48.156383  166.443005    5.105124
429.129844   72.682625   1830.528

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -49.193417  -752.066154   -21.673453
-811.432254  -124.021003   -4670.427
 0.25000  -49.193417  -720.024311   -21.673453
-808.119463  -106.818002   -4048.478
 0.50000  -49.193417  -688.435201   -21.673453
-804.806747   -97.388870   -3493.781
 0.75000  -49.193417  -657.797194   -21.673453
-801.494030   -96.079025   -2997.440
 1.00000  -49.193417  -628.677174   -21.673453
-798.181314   -97.317287   -2556.060

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   44.024142  120.931057    5.460860
589.631349   26.368253   1536.965
 0.25000   44.024142  134.194180    5.460860
589.631349   28.753207   1604.666
 0.50000   44.024142  149.226096    5.460860
589.631349   34.726421   1706.178
 0.75000   44.024142  165.623235    5.460860
589.631349   49.222249   1869.068
 1.00000   44.024142  182.890056    5.460860
589.631349   65.818203   2061.750

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -46.911370  -796.933905   -16.956045
-761.412675  -104.117363   -5337.846
 0.25000  -46.911370  -767.539564   -16.956045
-759.016847   -93.687586   -4663.134
 0.50000  -46.911370  -738.562109   -16.956045
-756.621073   -88.534574   -4062.030
 0.75000  -46.911370  -710.462643   -16.956045
-754.225299   -88.439248   -3529.219
 1.00000  -46.911370  -683.760459   -16.956045
-751.829525   -90.223505   -3061.697

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   44.181022  128.428655   13.514028
697.709209   60.627306   1514.877
 0.25000   44.181022  139.484072   13.514028
697.709209   53.513586   1641.086
 0.50000   44.181022  152.013858   13.514028
697.709209   52.797803   1641.086
 0.75000   44.181022  165.689621   13.514028
697.709209   61.759591   1779.162
 1.00000   44.181022  180.074300   13.514028
697.709209   73.649982   1952.326

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -51.367467  -714.216028   -14.580823
-721.607798   -78.364641   -4900.794
 0.25000  -51.367467  -689.714508   -14.580823
-719.610766   -79.334676   -4340.918
 0.50000  -51.367467  -665.560814   -14.580823
-717.613780   -80.250201   -3812.960
 0.75000  -51.367467  -642.138298   -14.580823
-715.616793   -87.945188   -3350.203
 1.00000  -51.367467  -619.880831   -14.580823
-713.619806   -98.470802   -2950.767
  Program   SAP2000   Nonlinear   Version   7.42
            File:하행S11-S1503.OUT

                                      Page
<                  MOVING                  LOAD                  >
                                           560

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   23.058259   38.509107    0.327810
199.176222    7.291884   499.972540
 0.25000   23.058259   38.514133    0.327810
199.157566    7.022101   482.564714
 0.50000   23.058259   38.519811    0.327810
199.139737   10.553808   496.790307
 0.75000   23.058259   38.526012    0.327810
199.123102   28.014524   557.538875
 1.00000   23.058259   38.532600    0.327810
199.108049   47.815489   643.353958

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.992680  -206.798727   -18.407075
-58.648335   -54.654747   -1715.731
 0.25000   -5.992680  -206.789456   -18.407075
-58.664375   -32.733087   -1514.373
```

```
 0.50000    -5.992680  -206.780399   -18.407075
-58.682152   -17.752652   -1335.401
 0.75000    -5.992680  -206.771689   -18.407075
-58.701328   -11.732231   -1178.318
 1.00000    -5.992680  -206.763488   -18.407075
-58.721603    -8.144081   -1043.755

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   22.689024   72.920932    6.842190
445.492977   31.120469   867.856112
 0.25000   22.689028   72.925959    6.842190
445.474313   24.807798   833.306496
 0.50000   22.689028   72.931638    6.842190
445.456474   24.167204   833.761415
 0.75000   22.689028   72.937840    6.842190
445.439830   33.570103   909.903998
 1.00000   22.689028   72.944429    6.842190
445.424770   45.492458   1031.406

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.047496  -308.694321  -13.139617
-119.224777   -40.234441   -2723.455
 0.25000  -15.047496  -308.685050  -13.139617
-119.240823   -25.780266   -2429.473
 0.50000  -15.047496  -308.675992  -13.139617
-119.256606   -19.673386   -2169.699
 0.75000  -15.047496  -308.667282  -13.139617
-119.277789   -20.395433   -1946.154
 1.00000  -15.047496  -308.659081  -13.139617
-119.298071   -23.808619   -1759.833

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   38.940084   116.403958    6.867668
590.274197   35.862030   1405.741
 0.25000   38.940084   128.884800    6.867668
563.616944   30.780805   1451.227
 0.50000   38.940084   143.013373    6.867668
560.997249   35.895611   1523.031
 0.75000   38.940084   158.435661    6.867668
560.669990   50.271048   1651.125
 1.00000   38.940084   174.743673    6.867668
560.679832   67.479797   1806.912

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -35.364617  -672.489464  -18.974887
-469.600219   -91.346779   -4661.047
 0.25000  -35.364617  -647.334344  -18.974887
-476.574802   -73.910818   -4129.466
 0.50000  -35.364617  -622.618398  -18.974887
-486.096922   -65.703044   -3644.156
 0.75000  -35.364617  -598.778613  -18.974887
-518.992969   -64.365564   -3224.446
 1.00000  -35.364617  -576.220492  -18.974887
-556.014283   -63.051199   -2858.650
Program    SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                561

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   42.101314   126.936402   10.523477
706.208134   64.056445   1405.050
 0.25000   42.101314   137.333844   10.523477
684.000719   56.654988   1434.395
 0.50000   42.101314   149.108964   10.523477
681.818324   58.855562   1490.766
 0.75000   42.101314   161.951844   10.523477
681.545693   69.269416   1600.611
 1.00000   42.101314   175.537596   10.523477
681.553892   82.479347   1740.907

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -38.855276  -604.299770  -16.339010
-497.661158   -76.895484   -4295.483
 0.25000  -38.855276  -583.343739  -16.339010
-503.471489   -63.405833   -3830.429
 0.50000  -38.855276  -562.735572  -16.339010
-511.404102   -60.164880   -3409.965
 0.75000  -38.855276  -542.893310  -16.339010
-538.808885   -63.194437   -3051.757
 1.00000  -38.855276  -524.100767  -16.339010
-569.650311   -69.122570   -2747.707

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   18.856360   47.321097    4.980593
327.753475   49.621348   356.987499
 0.25000   18.856360   47.326126    4.980593
327.737783   48.345975   345.873552
 0.50000   18.856360   47.331807    4.980593
327.716918   48.976199   342.198051
 0.75000   18.856360   47.338012    4.980593
327.700248   49.841587   346.949368
 1.00000   18.856360   47.344603    4.980593
327.685163   51.169103   362.992712

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -13.869010  -62.177523   -2.398273
-176.168863   -4.742417   -1688.823115
 0.25000  -13.869010  -62.168251   -2.398273
-176.184925   -5.847378   -542.509808
 0.50000  -13.869010  -62.159191   -2.398273
-176.202727   -8.417163   -527.155278
 0.75000  -13.869010  -62.150479   -2.398273
-176.221930   -12.211565   -523.527000
 1.00000  -13.869010  -62.142277   -2.398273
-176.242233   -16.724269   -531.650794

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   25.316164   79.425910   17.858472
568.191054   94.851035   662.843421
 0.25000   25.316164   79.430933   17.858472
568.172438   79.982874   637.387102
 0.50000   25.316164   79.436608   17.858472
568.154644   71.785591   627.548155
 0.75000   25.316164   79.442805   17.858472
568.138040   68.808272   637.224334
 1.00000   25.316164   79.449388   17.858472
568.123023   67.898069   677.379949

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -29.413932  -139.192516   -2.407565
-258.652051   -6.008136   -1332.430
 0.25000  -29.413932  -139.183247   -2.407565
-258.668069   -7.569592   -1249.090
 0.50000  -29.413932  -139.174192   -2.407565
-258.685822   -17.314665   -1183.599
 0.75000  -29.413932  -139.165484   -2.407565
-258.704971   -32.737565   -1140.468
 1.00000  -29.413932  -139.157285   -2.407565
-258.725216   -50.999192   -1121.828
Program    SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                562

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   29.751492   101.898469   12.118272
681.345954   78.910058   983.045164
 0.25000   29.751492   101.952728   12.118272
681.144796   70.360963   945.345246
 0.50000   29.751492   102.014021   12.118272
680.952529   67.093072   936.190616
 0.75000   29.751492   102.080961   12.118272
680.773141   68.713076   987.811690
 1.00000   29.751492   102.152074   12.118272
680.610840   72.381491   1080.937

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -25.196347  -270.939751   -6.622830
-251.064560   -18.347371   -2498.924
 0.25000  -25.196347  -270.839649   -6.622830
-251.237614   -14.949742   -2274.696
 0.50000  -25.196347  -270.741845   -6.622830
-251.429404   -17.927127   -2082.566
 0.75000  -25.196347  -270.647792   -6.622830
-251.636289   -25.305130   -1928.486
 1.00000  -25.196347  -270.559238   -6.622830
-251.855018   -35.345562   -1814.757

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   44.286885   124.488818   10.263527
764.240736   72.072919   1309.967
 0.25000   44.286885   132.283405   10.263527
739.866393   65.124016   1317.847
 0.50000   44.286885   141.094381   10.263527
716.614296   66.835240   1354.497
 0.75000   44.286885   150.712776   10.263527
695.074964   79.579559   1446.062
 1.00000   44.286885   160.907889   10.263527
692.669399   95.646085   1571.990

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -33.788962  -505.707997  -18.865948
-395.280443   -69.865916   -3780.112
 0.25000  -33.788962  -490.757859  -18.865948
-409.627053   -53.326150   -3390.020
 0.50000  -33.788962  -476.108230  -18.865948
-434.701099   -46.712063   -3048.246
 0.75000  -33.788962  -461.995290  -18.865948
-461.833786   -48.298538   -2741.355
 1.00000  -33.788962  -448.680169  -18.865948
-490.236848   -53.455161   -2501.963

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   31.842112   66.185125   15.150228
609.155272   51.555936   735.370451
 0.25000   31.842112   79.966365   15.150228
584.286882   43.255469   969.921900
 0.50000   31.842112   103.177983   15.150228
562.412721   40.321875   1245.572
 0.75000   31.842112   129.039570   15.150228
562.382637   52.176725   1584.154
 1.00000   31.842112   155.907235   15.150228
562.371601   67.296263   1946.932

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -28.637706  -665.696556  -17.479288
-635.029410   -67.180774   -2609.384
 0.25000  -28.637706  -636.074584  -17.479288
-635.029410   -57.338364   -2471.438
 0.50000  -28.637706  -606.485253  -17.479288
-635.029410   -56.639092   -2334.213
 0.75000  -28.637706  -577.778434  -17.479288
-635.029410   -59.742566   -2197.226
 1.00000  -28.637706  -550.542378  -17.479288
-635.029410   -69.828943   -2061.008
Program    SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                563

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   48.156383   128.428655   17.858472
764.240736   94.851035   1536.965
 0.25000   48.156383   139.484072   17.858472
739.866393   79.982874   1604.666
 0.50000   48.156383   152.013858   17.858472
716.614296   71.785591   1706.178
 0.75000   48.156383   165.689621   17.858472
697.709209   79.579559   1869.068
 1.00000   48.156383   182.890056   17.858472
697.709209   95.646085   2061.750

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -51.367467  -796.933905  -21.673453
-811.432254  -124.021003   -5337.846
 0.25000  -51.367467  -767.539564  -21.673453
-808.119463  -106.818002   -4663.134
 0.50000  -51.367467  -738.562509  -21.673453
-804.806747   -97.388870   -4062.030
 0.75000  -51.367467  -710.462643  -21.673453
-801.494030   -96.079025   -3529.219
 1.00000  -51.367467  -683.760459  -21.673453
-798.181314   -98.470802   -3061.697

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   48.156383   128.428655   17.858472
764.240736   94.851035   1536.965
 0.25000   48.156383   139.484072   17.858472
739.866393   79.982874   1604.666
 0.50000   48.156383   152.013858   17.858472
716.614296   71.785591   1706.178
 0.75000   48.156383   165.689621   17.858472
697.709209   79.579559   1869.068
 1.00000   48.156383   182.890056   17.858472
697.709209   95.646085   2061.750

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -51.367467  -796.933905  -21.673453
-811.432254  -124.021003   -5337.846
 0.25000  -51.367467  -767.539564  -21.673453
-808.119463  -106.818002   -4663.134
 0.50000  -51.367467  -738.562509  -21.673453
-804.806747   -97.388870   -4062.030
 0.75000  -51.367467  -710.462643  -21.673453
-801.494030   -96.079025   -3529.219
 1.00000  -51.367467  -683.760459  -21.673453
-798.181314   -98.470802   -3061.697

 COMB DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   48.156383   128.428655   17.858472
764.240736   94.851035   1536.965
 0.25000   48.156383   139.484072   17.858472
739.866393   79.982874   1604.666
 0.50000   48.156383   152.013858   17.858472
716.614296   71.785591   1706.178
 0.75000   48.156383   165.689621   17.858472
697.709209   79.579559   1869.068
 1.00000   48.156383   182.890056   17.858472
697.709209   95.646085   2061.750

 COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -51.367467  -796.933905  -21.673453
-811.432254  -124.021003   -5337.846
 0.25000  -51.367467  -767.539564  -21.673453
-808.119463  -106.818002   -4663.134
 0.50000  -51.367467  -738.562509  -21.673453
-804.806747   -97.388870   -4062.030
 0.75000  -51.367467  -710.462643  -21.673453
-801.494030   -96.079025   -3529.219
 1.00000  -51.367467  -683.760459  -21.673453
-798.181314   -98.470802   -3061.697

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM       23 ================== LENGTH
=    4.987867

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   18.856892   77.232545    0.378927
75.610815   18.540000   1204.989
 0.25000   18.856892   97.965405    0.378927
75.610815   23.397499   1389.934
 0.50000   18.856892   120.744245   0.378927
75.610815   29.507899   1542.953
 0.75000   18.856892   145.161251   0.378927
75.610815   36.562158   1663.297
 1.00000   18.856892   169.805758   0.378927
75.610815   44.728041   1753.709

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -18.860536  -374.067594   -8.408058
-538.320831   -47.522697   -1001.572
 0.25000  -18.860536  -348.855620   -8.408058
-538.320831   -44.734694   -935.359786
 0.50000  -18.860536  -323.098575   -8.408058
-538.320831   -41.946935   -869.147745
 0.75000  -18.860536  -298.292572   -8.408058
-538.320831   -39.181209   -802.998204
 1.00000  -18.860536  -274.993515   -8.408058
-538.320831   -36.432349   -737.237680

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   31.314496   109.885384    1.095680
176.317055   59.724534   1860.553
 0.25000   31.314496   136.052775    1.095680
176.317055   64.208449   2120.340
 0.50000   31.314496   164.697117    1.095680
176.317055   70.025343   2357.731
 0.75000   31.314496   195.337183    1.095680
176.317055   77.158423   2579.676
 1.00000   31.314496   227.031911    1.095680
176.317055   85.492868   2782.584

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -26.040189  -552.541840   -11.045219
-652.529742   -57.976674   -1687.219
 0.25000  -26.040189  -520.189914   -11.045219
-652.529742   -54.418853   -1584.749
 0.50000  -26.040189  -487.977798   -11.045219
-652.529742   -50.865393   -1482.281
 0.75000  -26.040189  -456.930105   -11.045219
-652.529742   -47.333604   -1379.900
 1.00000  -26.040189  -427.705812   -11.045219
-652.529742   -43.821402   -1277.961

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   27.723950   117.848687    2.009493
322.085284   50.294431   1947.767
 0.25000   27.723950   141.876953    2.009493
322.085284   53.941328   2245.133
 0.50000   27.723950   168.173872    2.009493
322.085284   59.067952   2531.261
 0.75000   27.723950   196.297617    2.009493
322.085284   65.595330   2808.796
 1.00000   27.723950   225.448166    2.009493
322.085284   73.363769   3071.286

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -25.372838  -579.994957   -9.830430
-567.841541   -52.681925   -2061.612
 0.25000  -25.372838  -550.245156   -9.830430
-567.841541   -49.258173   -1951.248
 0.50000  -25.372838  -520.686652   -9.830430
-567.841541   -45.950461   -1840.914
Program    SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                565

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000  -25.372838  -492.194197   -9.830430
-567.841541   -42.913273   -1730.743
 1.00000  -25.372838  -465.372627   -9.830430
-567.841541   -40.466919   -1621.032

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   28.654815   112.239050    4.895202
428.936759   53.242946   1747.280
 0.25000   28.654815   132.272324    4.895202
428.936759   55.044982   2031.070
 0.50000   28.654815   154.196887    4.895202
428.936759   58.156470   2308.078
 0.75000   28.654815   177.644373    4.895202
428.936759   62.509909   2580.544
 1.00000   28.654815   201.949677    4.895202
428.936759   67.946159   2842.875

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -28.113298  -522.222336   -8.546349
-497.586801   -67.731606   -2039.483
 0.25000  -28.113298  -497.417539   -8.546349
-497.586801   -65.256198   -1945.642
 0.50000  -28.113298  -472.774100   -8.546349
-497.586801   -63.130285   -1851.862
 0.75000  -28.113298  -449.019373   -8.546349
-497.586801   -61.543985   -1758.348
 1.00000  -28.113298  -426.657623   -8.546349
-497.586801   -60.965558   -1665.262

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10,916205   25.733621    0.760973
153.519091   37.787773   569.570557
 0.25000   10,916205   25.745393    0.760973
153.478259   37.060802   632.907627
 0.50000   10,916205   25.758163    0.760973
153.443103   36.347314   718.113449
 0.75000   10,916205   25.771699    0.760973
153.416412   35.675440   834.053074
 1.00000   10,916205   25.787131    0.760973
153.394100   35.004117   974.040553

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.828161  -138.778713   -1.543829
-75.181974   -6.147094   -736.904545
 0.25000   -4.828161  -138.763090   -1.543829
-75.215057   -5.782630   -702.686987
 0.50000   -4.828161  -138.749063   -1.543829
-75.250305   -5.424256   -668.469747
 0.75000   -4.828161  -138.735489   -1.543829
-75.287340   -5.069170   -634.253672
 1.00000   -4.828161  -138.722648   -1.543829
-75.330662   -4.721494   -600.037708

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.637059   45.232799    3.127077
350.726068   34.753107   801.119945
 0.25000   11.637059   45.244571    3.127077
350.685236   33.026515   923.179650
 0.50000   11.637059   45.257341    3.127077
350.650080   31.727796   1077.736
 0.75000   11.637059   45.270877    3.127077
350.623389   30.790451   1268.363
 1.00000   11.637059   45.286310    3.127077
350.601077   30.076554   1484.513

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.399841  -211.825185   -1.651749
-65.533838   -22.061511   -1264.193
Program    SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                566

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000  -10.399841  -211.809562   -1.651749
-65.566921   -21.102066   -1216.779
 0.50000  -10.399841  -211.795535   -1.651749
-65.602169   -20.250729   -1169.434
 0.75000  -10.399841  -211.781961   -1.651749
-65.639204   -19.710077   -1122.255
 1.00000  -10.399841  -211.769120   -1.651749
-65.682526   -19.981389   -1075.145

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   22.697966   101.244054    3.054760
362.551365   53.926680   1630.078
 0.25000   22.697966   121.552538    3.054760
358.005759   54.405216   1899.377
 0.50000   22.697966   143.664085    3.054760
358.005759   55.981808   2161.008
 0.75000   22.697966   167.210868    3.054760
358.005759   58.979263   2417.658
 1.00000   22.697966   192.781699    3.054760
358.005759   63.016624   2663.405

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -22.355703  -497.264205   -7.016161
-337.363781   -47.007555   -1910.953
 0.25000  -22.355703  -471.272584   -7.016161
-337.363781   -44.326283   -1819.478
 0.50000  -22.355703  -446.690101   -7.016161
-352.589394   -41.999529   -1728.073
 0.75000  -22.355703  -422.950336   -7.016161
-384.373307   -39.746450   -1636.885
 1.00000  -22.355703  -400.550270   -7.016161
-412.936306   -38.022802   -1546.013

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   25.147615   98.103479    6.185749
461.585342   59.994493   1473.830
 0.25000   25.147615   115.019141   6.185749
457.799144   59.107826   1728.940
 0.50000   25.147615   133.436639   6.185749
457.799144   59.128254   1979.817
 0.75000   25.147615   153.049596   6.185749
457.799144   60.309179   2228.636
 1.00000   25.147615   174.348455   6.185749
457.799144   62.346046   2469.837

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -24.837935  -446.571632   -5.906668
-313.891010   -52.557796   -1880.679
 0.25000  -24.837935  -424.922282   -5.906668
-313.891010   -51.997923   -1805.966
 0.50000  -24.837935  -404.446653   -5.906668
-326.572967   -51.958245   -1731.507
 0.75000  -24.837935  -384.672954   -5.906668
-353.046925   -52.701948   -1657.225
 1.00000  -24.837935  -366.015138   -5.906668
-376.838067   -54.494006   -1583.413

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.013132   20.823932    5.965318
242.344985   28.954227   177.430870
 0.25000   10.013132   20.835709    5.965318
242.304080   26.799768   220.025621
 0.50000   10.013132   20.848485    5.965318
242.268867   24.659165   265.921813
 0.75000   10.013132   20.862027    5.965318
242.241869   22.536283   314.421334
 1.00000   10.013132   20.877470    5.965318
242.219515   20.466026   364.794526
Program    SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                567

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.474451  -45.373597   -0.189735
-58.206392   -13.449330   -416.711433
 0.25000  -10.474451  -45.357963   -0.189735
-58.239535   -17.095825   -421.380544
```

```
 0.50000   -10.474451   -45.343931    -0.189735
-58.274842   -21.387419  -426.181392
 0.75000   -10.474451   -45.330352    -0.189735
-58.311937   -26.247668  -431.360059
 1.00000   -10.474451   -45.317506    -0.189735
-58.355335   -31.685654  -436.588099

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.759789   38.059580    9.211741
428.366612   40.065262  359.627080
 0.25000   15.759789   38.071352    9.211741
428.325780   36.587834  450.808456
 0.50000   15.759789   38.084122    9.211741
428.290624   33.303445  550.217739
 0.75000   15.759789   38.097658    9.211741
428.263934   30.183467  656.895691
 1.00000   15.759789   38.113090    9.211741
428.241621   27.172188  770.038544

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -19.481694  -103.060780   -0.889810
-78.684586   -48.460334  -848.170826
 0.25000   -19.481694  -103.045157   -0.889810
-78.717670   -51.458348  -845.222470
 0.50000   -19.481694  -103.031130   -0.889810
-78.752918   -55.224620  -842.557341
 0.75000   -19.481694  -103.017556   -0.889810
-78.789952   -59.718944  -840.282996
 1.00000   -19.481694  -103.004715   -0.889810
-78.833274   -65.165910  -838.145798

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.743119   53.588062    8.515700
527.613081   42.946021  688.674342
 0.25000   15.743119   53.598656    8.515700
527.576332   39.493743  831.667300
 0.50000   15.743119   53.610149    8.515700
527.544691   36.417953  996.572291
 0.75000   15.743119   53.622332    8.515700
527.520670   33.668416  1181.908
 1.00000   15.743119   53.636221    8.515700
527.500589   31.129991  1382.718

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -17.479403  -189.668103   -0.777117
-71.129758   -30.898572  -1355.060
 0.25000   -17.479403  -189.654042   -0.777117
-71.159533   -34.017725  -1328.038
 0.50000   -17.479403  -189.641418   -0.777117
-71.191256   -37.954758  -1301.321
 0.75000   -17.479403  -189.629202   -0.777117
-71.224588   -42.569993  -1274.996
 1.00000   -17.479403  -189.617645   -0.777117
-71.263577   -48.047277  -1248.852

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   23.718413   85.246485    7.508933
546.016923   66.856238  1256.277
 0.25000   23.718413   97.201899    7.508933
521.407007   64.093797  1475.600
 0.50000   23.718413   110.187492   7.508933
500.889988   62.180443  1700.559
 0.75000   23.718413   123.983247   7.508933
492.640866   60.906452  1933.426
 1.00000   23.718413   139.346542   7.508933
492.640866   60.485379  2167.413
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                       Page
<              MOVING          LOAD              >
                        568

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -23.223064  -372.105149   -4.163286
-219.401943   -41.865828  -1745.414
 0.25000   -23.223064  -356.521935   -4.163286
-235.502198   -43.157643  -1686.659
 0.50000   -23.223064  -342.173776   -4.163286
-260.102466   -45.121995  -1628.149
 0.75000   -23.223064  -328.303193   -4.163286
-283.263439   -47.886885  -1570.013
 1.00000   -23.223064  -315.197927   -4.163286
-316.446769   -51.777577  -1512.159

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   24.256505   90.865759    0.716500
142.593004   23.515191  1153.159
 0.25000   24.256505   104.820997   0.716500
142.593004   20.266.593  1266.593
 0.50000   24.256505   120.307835   0.716500
142.593004   31.765758  1372.379
 0.75000   24.256505   136.935032   0.716500
142.593004   38.211465  1466.779
 1.00000   24.256505   154.242431   0.716500
142.593004   45.690479  1564.425

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -41.555156  -396.645955   -11.010328
-651.394350   -82.268927  -1550.675
 0.25000   -41.555156  -372.353019   -11.010328
-642.786445   -74.066647  -1340.772
 0.50000   -41.555156  -348.386205   -11.010328
-634.178540   -66.775545  -1160.394
 0.75000   -41.555156  -325.256602   -11.010328
-625.570634   -60.356086  -1007.685
 1.00000   -41.555156  -303.378857   -11.010328
-616.962729   -54.701801  -901.998503

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   47.617658   140.597817   1.731705
267.037460   71.709187  1831.441
 0.25000   47.617658   157.843052   1.731705
267.037460   75.407680  1981.298
 0.50000   47.617658   176.979142   1.731705
267.037460   80.831600  2144.898
 0.75000   47.617658   197.542583   1.731705
267.037460   88.020924  2324.341
 1.00000   47.617658   218.991714   1.731705
267.037460   96.700621  2540.682

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -49.224653  -601.279796   -14.288698
-772.480918   -95.546767  -2554.914
 0.25000   -49.224653  -571.738407   -14.288698
-769.167873   -85.686126  -2223.158
 0.50000   -49.224653  -542.671840   -14.288698
-765.854828   -76.940333  -1941.499
 0.75000   -49.224653  -514.657933   -14.288698
-762.541783   -69.263990  -1708.151
 1.00000   -49.224653  -488.206664   -14.288698
-759.228738   -62.596469  -1566.885

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   43.411311   155.164123    3.052368
423.473276   65.523538  2061.984
 0.25000   43.411311   171.021480   3.052368
423.473276   67.482199  2239.328
 0.50000   43.411311   188.618740   3.052368
423.473276   71.195222  2443.657
 0.75000   43.411311   207.530514   3.052368
423.473276   77.087862  2674.515
 1.00000   43.411311   227.258174   3.052368
423.473276   84.559725  2975.093
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                       Page
<              MOVING          LOAD              >
                        569

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -46.920061  -658.023046   -12.906942
-682.395642   -88.128173  -3060.903
 0.25000   -46.920061  -630.898043   -12.906942
-679.999630   -79.092794  -2689.982
 0.50000   -46.920061  -604.217523   -12.906942
-677.603619   -71.181495  -2382.562
 0.75000   -46.920061  -578.500151   -12.906942
-675.207607   -64.921643  -2138.203
 1.00000   -46.920061  -554.229634   -12.906942
-672.811596   -60.090726  -2021.404

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   43.100615   150.181670   6.411392
550.028054   73.335428  1951.844
 0.25000   43.100615   163.399498   6.411392
550.028054   72.453709  2123.461
 0.50000   43.100615   178.067615   6.411392
550.028054   73.421268  2324.479
 0.75000   43.100615   193.831438   6.411392
550.028054   76.461366  2558.805
 1.00000   43.100615   210.275340   6.411392
550.028054   81.040056  2863.721

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -50.965375  -601.777690   -11.170143
-614.158283   -96.208836  -2950.041
 0.25000   -50.965375  -579.167767   -11.170143
-612.161098   -89.758802  -2723.617
 0.50000   -50.965375  -556.928340   -11.170143
-610.163913   -84.672083  -2357.168
 0.75000   -50.965375  -535.491740   -11.170143
-608.166729   -81.336455  -2156.658
 1.00000   -50.965375  -515.261160   -11.170143
-606.169544   -79.502918  -2077.278

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   23.186383   42.656733    1.085412
165.917918   47.749748  643.019035
 0.25000   23.186383   42.662326    1.085412
165.900444   47.372092  676.105869
 0.50000   23.186383   42.668552    1.085412
165.883778   47.087997  740.082119
 0.75000   23.186383   42.675277    1.085412
165.868318   46.997071  838.441060
 1.00000   23.186383   42.682356    1.085412
165.854450   47.151932  981.521319

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.289309  -178.761875   -1.950012
-71.155679   -8.147483  -1043.891
 0.25000   -6.289309  -178.752972   -1.950012
-71.171911   -7.270628  -925.701771
 0.50000   -6.289309  -178.744312   -1.950012
-71.189852   -6.501718  -829.986170
 0.75000   -6.289309  -178.736030   -1.950012
-71.209990   -5.927717  -757.533951
 1.00000   -6.289309  -178.728311   -1.950012
-71.229157   -5.586125  -737.407902

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   22.401095   72.484783    3.863405
394.667181   46.239597  1030.322
 0.25000   22.401095   72.490377    3.863405
394.649698   43.711009  1103.466
 0.50000   22.401095   72.496603    3.863405
394.633023   41.640852  1223.702
 0.75000   22.401095   72.503329    3.863405
394.617555   40.426932  1388.132
 1.00000   22.401095   72.510410    3.863405
394.603679   39.744924  1634.776
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                       Page
<              MOVING          LOAD              >
                        570

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.076973  -283.856704   -2.117433
-73.056327   -23.069587  -1760.200
 0.25000   -15.076973  -283.847801   -2.117433
-73.074565   -22.240443  -1583.416
 0.50000   -15.076973  -283.839140   -2.117433
-73.092512   -21.746121  -1447.346
 0.75000   -15.076973  -283.830867   -2.117433
-73.111658   -22.246367  -1353.346
 1.00000   -15.076973  -283.823138   -2.117433
-73.131832   -23.440251  -1351.153

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   38.390511   136.661677   4.047377
475.459571   67.667340  1806.454
 0.25000   38.390511   151.030333   4.047377
448.987816   67.532258  1971.457
 0.50000   38.390511   167.006687   4.047377
442.605877   68.804705  2162.417
 0.75000   38.390511   184.213667   4.047377
442.608186   71.592221  2378.102
 1.00000   38.390511   202.254103   4.047377
442.613968   75.659908  2663.088

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -35.356357  -574.992650   -9.006082
-399.369403   -64.520500  -2858.759
 0.25000   -35.356357  -551.294883   -9.006082
-407.950578   -58.970411  -2484.960
 0.50000   -35.356357  -528.131659   -9.006082
-431.237788   -54.280599  -2241.971
 0.75000   -35.356357  -505.887787   -9.006082
-467.500326   -50.915846  -1998.748
 1.00000   -35.356357  -485.018406   -9.006082
-502.933759   -48.696667  -1924.292

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   41.036724   136.053258    8.070631
598.877977   82.072583  1739.792
 0.25000   41.036724   148.023928   8.070631
576.825094   78.739687  1898.776
 0.50000   41.036724   161.333384   8.070631
571.508479   76.940711  2083.607
 0.75000   41.036724   175.668041   8.070631
571.510402   76.728919  2301.379
 1.00000   41.036724   190.697026   8.070631
571.515218   77.813522  2587.297

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -38.328186  -525.177757   -7.735023
-394.948336   -67.134214  -2747.574
 0.25000   -38.328186  -505.435806   -7.735023
-402.097074   -64.242114  -2427.508
 0.50000   -38.328186  -486.139168   -7.735023
-421.497002   -62.579433  -2219.812
 0.75000   -38.328186  -467.608418   -7.735023
-451.706313   -62.615097  -2027.850
 1.00000   -38.328186  -450.222717   -7.735023
-481.224921   -64.051255  -1988.463

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   17.967427   35.517292    7.916369
308.590671   50.421467  361.835898
 0.25000   17.967427   35.522888    7.916369
308.573160   44.729029  390.534588
 0.50000   17.967427   35.529117    7.916369
308.556459   39.672969  424.266984
 0.75000   17.967427   35.535845    7.916369
308.540966   35.251716  478.516817
 1.00000   17.967427   35.542928    7.916369
308.527065   31.345580  546.536895
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                       Page
<              MOVING          LOAD              >
                        571

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -13.094507  -64.761322   -0.371249
-109.453986   -15.782416  -531.236834
 0.25000   -13.094507  -64.752416   -0.371249
-109.472041   -18.818686  -525.802457
 0.50000   -13.094507  -64.743754   -0.371249
-109.488208   -22.791980  -518.612405
 0.75000   -13.094507  -64.735479   -0.371249
-109.507373   -27.632689  -540.593013
 1.00000   -13.094507  -64.727749   -0.371249
-109.527570   -33.177276  -578.108309

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   23.790977   61.341384   11.667083
537.897722   67.431682  675.486023
 0.25000   23.790977   61.346974   11.667083
537.880285   59.485636  735.977164
 0.50000   23.790977   61.353197   11.667083
537.863654   52.582845  813.475912
 0.75000   23.790977   61.359919   11.667083
537.848227   46.625184  925.945608
 1.00000   23.790977   61.366985   11.667083
537.834391   41.399833  1072.884

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -28.279279  -145.376551   -1.076680
-145.720683   -49.587315  -1121.479
 0.25000   -28.279279  -145.367651   -1.076680
-145.736891   -53.204063  -1076.751
 0.50000   -28.279279  -145.358994   -1.076680
-145.754806   -58.113629  -1049.228
 0.75000   -28.279279  -145.350723   -1.076680
-145.773917   -64.511229  -1062.375
 1.00000   -28.279279  -145.342997   -1.076680
-145.794055   -71.212250  -1113.794

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   28.530380   85.104251   10.987590
629.728218   72.628211  1078.809
 0.25000   28.530380   85.164636   10.987590
629.539797   64.809029  1171.347
 0.50000   28.530380   85.231850   10.987590
626.000087   57.554949  1298.978
 0.75000   28.530380   85.304455   10.987590
629.193386   52.312873  1475.542
 1.00000   28.530380   85.380884   10.987590
629.043867   47.500477  1723.122

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -24.341442  -263.181981   -1.189608
-131.448543   -34.468649  -1814.699
 0.25000   -24.341442  -263.085853   -1.189608
-131.623654   -37.560421  -1684.514
 0.50000   -24.341442  -262.992349   -1.189608
-131.817211   -41.733868  -1589.187
 0.75000   -24.341442  -262.903018   -1.189608
-132.023686   -47.272149  -1551.396
 1.00000   -24.341442  -262.819573   -1.189608
-132.241254   -53.830723  -1598.217

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   43.181136   124.432198   9.887586
673.314023   95.409722  1570.401
 0.25000   43.181136   133.235500   9.887586
650.862686   89.817999  1708.123
 0.50000   43.181136   143.026595   9.887586
629.431445   85.404128  1874.800
 0.75000   43.181136   153.592771   9.887586
609.686292   82.662880  2083.184
 1.00000   43.181136   164.693310   9.887586
604.065488   81.049013  2361.181
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                       Page
<              MOVING          LOAD              >
                        572

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -33.133528  -450.650804   -5.441793
-298.510988   -52.207236  -2501.821
 0.25000   -33.133528  -436.413865   -5.441793
-321.249840   -52.081691  -2271.996
 0.50000   -33.133528  -422.533721   -5.441793
-346.409892   -53.156444  -2086.847
 0.75000   -33.133528  -409.242537   -5.441793
-373.488782   -55.666885  -1984.916
 1.00000   -33.133528  -396.801780   -5.441793
-401.709934   -59.355841  -1974.138

 COMB      DB ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   31.314496   117.848687   9.211741
546.016923   66.856238  1947.767
 0.25000   31.314496   141.876953   9.211741
527.576332   64.208449  2245.133
 0.50000   31.314496   168.173872   9.211741
527.544691   70.025343  2531.261
 0.75000   31.314496   196.297617   9.211741
527.520670   77.158423  2808.796
 1.00000   31.314496   227.031911   9.211741
527.500589   85.492868  3071.286

 COMB      DB ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -28.113298  -579.994957  -11.045219
-652.529742   -67.731606  -2061.612
 0.25000   -28.113298  -550.245156  -11.045219
-652.529742   -65.256198  -1951.248
 0.50000   -28.113298  -520.686652  -11.045219
-652.529742   -63.130285  -1851.862
 0.75000   -28.113298  -492.194197  -11.045219
-652.529742   -61.543985  -1758.348
 1.00000   -28.113298  -465.372617  -11.045219
-652.529742   -65.165910  -1665.262

 COMB      DL ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   47.617658   155.164123   11.667083
673.314023   95.409722  2061.984
 0.25000   47.617658   171.021480   11.667083
650.862686   89.817999  2239.328
 0.50000   47.617658   188.618740   11.667083
629.431445   85.404128  2443.657
 0.75000   47.617658   207.530514   11.667083
629.193386   88.020924  2674.515
 1.00000   47.617658   227.258174   11.667083
629.043867   96.700621  2975.093

 COMB      DL ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -50.965375  -658.023046   -14.288698
-772.480918   -96.208836  -3060.903
 0.25000   -50.965375  -630.898043   -14.288698
-769.167873   -89.758802  -2689.982
 0.50000   -50.965375  -604.217523   -14.288698
-765.854828   -84.672083  -2382.562
 0.75000   -50.965375  -578.500151   -14.288698
-762.541783   -81.336455  -2156.658
 1.00000   -50.965375  -554.229634   -14.288698
-759.228738   -79.502918  -2077.278

 COMB      CAR ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   47.617658   155.164123   11.667083
673.314023   95.409722  2061.984
 0.25000   47.617658   171.021480   11.667083
650.862686   89.817999  2245.133
 0.50000   47.617658   188.618740   11.667083
629.431445   85.404128  2531.261
 0.75000   47.617658   207.530514   11.667083
629.193386   88.020924  2808.796
 1.00000   47.617658   227.258174   11.667083
629.043867   96.700621  3071.286
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                       Page
<              MOVING          LOAD              >
                        573

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -50.965375  -658.023046   -14.288698
-772.480918   -96.208836  -3060.903
 0.25000   -50.965375  -630.898043   -14.288698
-769.167873   -89.758802  -2689.982
 0.50000   -50.965375  -604.217523   -14.288698
-765.854828   -84.672083  -2382.562
 0.75000   -50.965375  -578.500151   -14.288698
-762.541783   -81.336455  -2156.658
 1.00000   -50.965375  -554.229634   -14.288698
-759.228738   -79.502918  -2077.278

 COMB      DESIGN -------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   47.617658   155.164123   11.667083
673.314023   95.409722  2061.984
 0.25000   47.617658   171.021480   11.667083
650.862686   89.817999  2245.133
 0.50000   47.617658   188.618740   11.667083
629.431445   85.404128  2531.261
 0.75000   47.617658   207.530514   11.667083
629.193386   88.020924  2808.796
 1.00000   47.617658   227.258174   11.667083
629.043867   96.700621  3071.286

 COMB      DESIGN -------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -50.965375  -658.023046   -14.288698
-772.480918   -96.208836  -3060.903
 0.25000   -50.965375  -630.898043   -14.288698
-769.167873   -89.758802  -2689.982
 0.50000   -50.965375  -604.217523   -14.288698
-765.854828   -84.672083  -2382.562
 0.75000   -50.965375  -578.500151   -14.288698
-762.541783   -81.336455  -2156.658
 1.00000   -50.965375  -554.229634   -14.288698
-759.228738   -79.502918  -2077.278

 ELEM      24 ================== LENGTH
=    4.987464

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   18.335309   117.023900    0.622701
53.482120   44.133213  1755.381
 0.25000   18.335309   138.506812    0.622701
53.482120   48.699740  1882.061
 0.50000   18.335309   162.033550    0.622701
53.482120   54.548945  1976.669
 0.75000   18.335309   187.112725    0.622701
53.482120   61.383749  2039.224
 1.00000   18.335309   212.269521    0.622701
53.482120   69.392621  2073.371

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -18.646560  -331.027871   -8.571650
-457.609261   -35.254542  -737.516396
 0.25000   -18.646560  -305.565876   -8.571650
-457.609261   -31.716926  -690.113868
 0.50000   -18.646560  -279.755098   -8.571650
-457.609261   -28.180080  -642.711383
 0.75000   -18.646560  -255.109720   -8.571650
-457.609261   -24.646074  -595.308914
 1.00000   -18.646560  -232.204966   -8.571650
-457.609261   -21.114980  -547.962319

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   30.738573   166.085722    3.792282
145.508818   84.715250  2784.255
 0.25000   30.738573   193.143927    3.792282
145.508818   85.637656  2956.332
```

```
 0.50000     30.738573   222.713040     3.792282
145.508818   88.028057    3104.016
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    574

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.75000     30.738573   254.212617     3.792282
145.508818   92.446969    3235.215
 1.00000     30.738573   286.624398     3.792282
145.508818  100.072537    3349.764

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -25.935126  -485.959176   -10.855806
-586.608755   -42.494988    -1278.323
 0.25000   -25.935126  -453.233031   -10.855806
-586.608755   -38.604657    -1199.835
 0.50000   -25.935126  -420.906755   -10.855806
-586.608755   -34.730518    -1121.347
 0.75000   -25.935126  -389.965958   -10.855806
-586.608755   -30.917331    -1042.861
 1.00000   -25.935126  -361.089617   -10.855806
-586.608755   -27.144432   -964.455622

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    26.926122   166.848054     3.718390
269.707312   73.672406    3072.287
 0.25000    26.926122   191.690111     3.718390
269.707312   75.083006    3276.293
 0.50000    26.926122   218.834848     3.718390
269.707312   78.125736    3464.790
 0.75000    26.926122   247.749620     3.718390
269.707312   83.102492    3642.857
 1.00000    26.926122   277.563933     3.718390
269.707312   90.677214    3807.096

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -24.965437  -505.458068    -9.924929
-538.578957   -38.406132    -1621.334
 0.25000   -24.965437  -475.360223    -9.924929
-538.578957   -34.942292    -1529.026
 0.50000   -24.965437  -445.693485    -9.924929
-538.578957   -31.844289    -1436.719
 0.75000   -24.965437  -417.259274    -9.924929
-538.578957   -28.787490    -1344.413
 1.00000   -24.965437  -390.779049    -9.924929
-538.578957   -26.469849    -1252.172

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    27.609996   153.241017     6.119145
353.532732   67.952808    2843.009
 0.25000    27.609996   173.952655     6.119145
353.532732   68.060541    3043.521
 0.50000    27.609996   196.584036     6.119145
353.532732   69.641491    3232.276
 0.75000    27.609996   220.691084     6.119145
353.532732   72.907520    3413.607
 1.00000    27.609996   245.549951     6.119145
353.532732   78.399274    3584.462

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -27.570723  -453.113549   -10.152482
-469.750012   -58.668226    -1665.408
 0.25000   -27.570723  -428.018444   -10.152482
-469.750012   -54.996123    -1579.041
 0.50000   -27.570723  -403.284665   -10.152482
-469.750012   -51.927874    -1492.734
 0.75000   -27.570723  -379.605633   -10.152482
-469.750012   -50.298687    -1406.462
 1.00000   -27.570723  -357.500804   -10.152482
-469.750012   -49.764781    -1320.260

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    10.926605   34.017212     3.451772
137.124975   35.026648   973.786276
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    575

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.25000    10.926605   34.029311     3.451772
137.084668   30.963327    1009.317
 0.50000    10.926605   34.042465     3.451772
137.050297   26.935411    1065.398
 0.75000    10.926605   34.056432     3.451772
137.021440   23.415998    1148.716
 1.00000    10.926605   34.072319     3.451772
136.998624   21.537952    1256.600

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -5.090597  -115.437400    -1.233143
-119.512254   -4.753164   -600.083366
 0.25000    -5.090597  -115.421500    -1.233143
-119.543376   -4.690224   -567.797374
 0.50000    -5.090597  -115.407336    -1.233143
-119.577284   -4.648045   -535.511872
 0.75000    -5.090597  -115.393634    -1.233143
-119.613471   -4.633348   -503.226338
 1.00000    -5.090597  -115.380679    -1.233143
-119.656343   -4.675758   -470.969900

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   11.175000   53.063001     4.739634
301.058619   31.425571    1483.554
 0.25000   11.175000   53.075100     4.739634
301.018312   27.689207    1566.517
 0.50000   11.175000   53.088254     4.739634
300.983941   24.461029    1676.638
 0.75000   11.175000   53.102221     4.739634
300.955084   22.022046    1819.393
 1.00000   11.175000   53.118108     4.739634
300.932268   21.265370    1987.083

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -10.196501  -175.383078    -2.753371
-126.685306   -19.138113    -1075.127
 0.25000   -10.196501  -175.367178    -2.753371
-126.716428   -17.839109    -1023.335
 0.50000   -10.196501  -175.353014    -2.753371
-126.750335   -16.832687    -971.543361
 0.75000   -10.196501  -175.339312    -2.753371
-126.786522   -17.037098    -919.753120
 1.00000   -10.196501  -175.326357    -2.753371
-126.829395   -18.053198    -868.009021

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    21.949501   136.720966     5.663841
326.179683   63.830423    2663.353
 0.25000    21.949501   157.638179     5.663841
303.437473   62.411129    2855.476
 0.50000    21.949501   180.439658     5.663841
303.437473   62.509369    3034.788
 0.75000    21.949501   204.690700     5.663841
303.437473   64.458747    3206.171
 1.00000    21.949501   230.929169     5.663841
303.437473   68.348039    3366.362

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -22.032973  -433.321545    -7.866212
-338.232659   -37.067467    -1546.181
 0.25000   -22.032973  -406.947767    -7.866212
-338.232659   -34.099096    -1463.228
 0.50000   -22.032973  -382.204492    -7.866212
-367.209890   -31.395034    -1380.275
 0.75000   -22.032973  -358.398625    -7.866212
-397.164741   -29.788472    -1297.324
 1.00000   -22.032973  -336.039283    -7.866212
-424.922955   -28.730806    -1214.417
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    576

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    24.118496   127.900632     8.266132
398.984329   62.190484    2469.081
 0.25000    24.118496   145.323326     8.266132
380.041529   59.828307    2656.078
 0.50000    24.118496   164.315493     8.266132
380.041529   58.728073    2833.593
 0.75000    24.118496   184.515053     8.266132
380.041529   59.174655    3005.360
 1.00000    24.118496   206.370012     8.266132
380.041529   61.274628    3168.189

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -24.222090  -387.713596    -7.253562
-306.820717   -52.392601    -1583.416
 0.25000   -24.222090  -365.745933    -7.253562
-306.820717   -51.042980    -1507.341
 0.50000   -24.222090  -345.136375    -7.253562
-330.956889   -50.529235    -1431.290
 0.75000   -24.222090  -325.307617    -7.253562
-355.907355   -51.440871    -1355.363
 1.00000   -24.222090  -306.683681    -7.253562
-379.028163   -53.455250    -1279.489

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     9.384143   21.208888     5.929005
193.425882   19.273724   363.120010
 0.25000     9.384143   21.220992     5.929005
193.386501   16.967090   402.169406
 0.50000     9.384143   21.234152     5.929005
193.352072   14.719306   441.872970
 0.75000     9.384143   21.248125     5.929005
193.322934   12.529271   482.774303
 1.00000     9.384143   21.264023     5.929005
193.300074   10.423483   524.546402

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -9.963009   -37.885023    -0.395006
-41.682232   -30.214940  -436.351410
 0.25000    -9.963009   -37.870013    -0.395006
-41.713412   -33.181303  -427.631541
 0.50000    -9.963009   -37.855843    -0.395006
-41.747379   -36.847804  -418.911672
 0.75000    -9.963009   -37.842136    -0.395006
-41.783627   -41.262901  -410.264188
 1.00000    -9.963009   -37.829175    -0.395006
-41.826579   -46.482103  -401.810125

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    14.739401   38.915598     8.976562
345.096787   26.367810   768.201900
 0.25000    14.739401   38.927697     8.976562
345.056480   22.802068   846.222658
 0.50000    14.739401   38.940851     8.976562
345.020109   19.522206   928.847226
 0.75000    14.739401   38.954818     8.976562
344.993252   16.470428   1015.257
 1.00000    14.739401   38.970705     8.976562
344.970436   13.698956   1105.207

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -18.901200   -85.209769    -3.161758
-61.938895   -63.062485  -837.825391
 0.25000   -18.901200   -85.193869    -3.161758
-61.970017   -63.029991  -814.347928
 0.50000   -18.901200   -85.179705    -3.161758
-62.003925   -64.189752  -790.870465
 0.75000   -18.901200   -85.166004    -3.161758
-62.040112   -67.936682  -767.523928
 1.00000   -18.901200   -85.153049    -3.161758
-62.082984   -74.329540  -744.381303
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    577

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    14.676951   54.551066     8.680496
434.909427   31.131183    1380.743
 0.25000    14.676951   54.561955     8.680496
434.873151   27.376458    1492.943
 0.50000    14.676951   54.573794     8.680496
434.842217   24.073290    1621.219
 0.75000    14.676951   54.586365     8.680496
434.816246   21.167258    1765.795
 1.00000    14.676951   54.600663     8.680496
434.795711   18.669599    1923.233

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -16.700859  -156.326594    -2.038938
-102.093359   -46.550682    -1248.574
 0.25000   -16.700859  -156.312284    -2.038938
-102.121368   -48.297845    -1202.394
 0.50000   -16.700859  -156.299536    -2.038938
-102.151885   -51.103761    -1156.215
 0.75000   -16.700859  -156.287205    -2.038938
-102.184453   -55.760797    -1110.161
 1.00000   -16.700859  -156.275546    -2.038938
-102.223039   -61.666952    -1064.281

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    22.679253   106.775600     9.953232
474.813579   60.199056    2166.080
 0.25000    22.679253   119.069376     9.953232
446.185289   55.872082    2329.616
 0.50000    22.679253   132.452666     9.953232
426.323465   52.504323    2492.677
 0.75000    22.679253   146.674805     9.953232
409.841621   50.554985    2659.794
 1.00000    22.679253   162.465976     9.953232
409.841621   50.266408    2826.650

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -22.562234  -321.273476    -4.983503
-228.172324   -49.668447    -1512.042
 0.25000   -22.562234  -305.436595    -4.983503
-252.978525   -50.285137    -1444.950
 0.50000   -22.562234  -290.971158    -4.983503
-276.131586   -51.785924    -1377.859
 0.75000   -22.562234  -277.015107    -4.983503
-301.367407   -54.830962    -1310.873
 1.00000   -22.562234  -263.862015    -4.983503
-339.036577   -59.036121    -1244.048

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    23.613193   116.855051     1.087313
86.338170    44.957678    1566.481
 0.25000    23.613193   132.595379     1.087313
86.338170    49.874705    1731.090
 0.50000    23.613193   149.867118     1.087313
86.338170    56.543447    1864.347
 0.75000    23.613193   168.260791     1.087313
86.338170    64.776837    1964.018
 1.00000    23.613193   187.243791     1.087313
86.338170    74.053224    2030.788

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -41.308409  -327.963795   -11.730072
-510.668219   -53.172279   -902.437185
 0.25000   -41.308409  -304.954130   -11.730072
-502.061010   -46.028730   -882.627816
 0.50000   -41.308409  -282.340342   -11.730072
-493.454000   -39.819856   -864.672256
 0.75000   -41.308409  -260.603396   -11.730072
-484.846592   -34.444794   -846.880196
 1.00000   -41.308409  -240.263931   -11.730072
-476.239383   -29.770829   -828.965577
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    578

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    46.966943   178.912310     5.003505
186.601512   95.950048    2542.958
 0.25000    46.966943   198.184730     5.003505
186.601512   97.965994    2784.195
 0.50000    46.966943   219.404429     5.003505
186.601512  101.979687    2998.266
 0.75000    46.966943   242.043919     5.003505
186.601512  107.723511    3188.892
 1.00000    46.966943   265.492950     5.003505
186.601512  115.964782    3346.992

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -49.124388  -497.550949   -14.027035
-631.438343   -60.859131    -1567.585
 0.25000   -49.124388  -469.472642   -14.027035
-628.125567   -53.558351    -1540.797
 0.50000   -49.124388  -441.914938   -14.027035
-624.812790   -47.500989    -1515.739
 0.75000   -49.124388  -415.449931   -14.027035
-621.500013   -42.434000    -1490.720
 1.00000   -49.124388  -390.689859   -14.027035
-618.187236   -38.170108    -1465.598

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    42.740150   189.901993     5.304941
317.551820   84.773192    2976.403
 0.25000    42.740150   207.609549     5.304941
317.551820   86.776142    3270.135
 0.50000    42.740150   227.110958     5.304941
317.551820   90.742054    3539.309
 0.75000    42.740150   247.921104     5.304941
317.551820   96.856671    3785.910
 1.00000    42.740150   269.485519     5.304941
317.551820  105.119925    4003.262

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -46.870290  -544.545325   -13.023061
-577.085960   -58.354058    -2021.972
 0.25000   -46.870290  -518.754646   -13.023061
-574.690142   -51.999188    -2000.622
 0.50000   -46.870290  -493.448121   -13.023061
-572.294324   -47.109872    -1980.780
 0.75000   -46.870290  -469.145832   -13.023061
-569.898507   -43.665977    -1960.989
 1.00000   -46.870290  -446.411183   -13.023061
-567.502689   -41.407617    -1941.092

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    42.040821   178.938225     7.741085
417.299981   81.080912    2863.967
 0.25000    42.040821   193.662079     7.741085
417.299981   81.085404    3150.437
 0.50000    42.040821   209.953590     7.741085
417.299981   83.107234    3416.894
 0.75000    42.040821   227.299793     7.741085
417.299981   86.953884    3665.148
 1.00000    42.040821   245.274714     7.741085
417.299981   92.888192    3889.390

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -50.586686  -502.544328   -12.679235
-508.292674   -77.504372    -2077.511
 0.25000   -50.586686  -481.046624   -12.679235
-506.295651   -71.787566    -2069.345
 0.50000   -50.586686  -459.952484   -12.679235
-504.298628   -67.877300    -2062.501
 0.75000   -50.586686  -439.695421   -12.679235
-502.301605   -65.964213    -2055.706
 1.00000   -50.586686  -420.745057   -12.679235
-500.304581   -65.523062    -2048.840
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    579

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    23.271756   50.487315     4.172193
142.417949   47.531002   981.314835
 0.25000    23.271756   50.493338     4.172193
142.400784   43.742453    1056.829
 0.50000    23.271756   50.500039     4.172193
142.384154   40.121038    1144.835
 0.75000    23.271756   50.507280     4.172193
142.368490   36.561252    1249.262
 1.00000    23.271756   50.514905     4.172193
142.354261   33.923243    1359.703

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -6.568617  -145.120217    -1.357373
-99.886485    -5.777660   -737.532034
 0.25000    -6.568617  -145.111597    -1.357373
-99.902282    -6.040867   -733.206854
 0.50000    -6.568617  -145.103193    -1.357373
-99.919959    -6.479444   -728.880079
 0.75000    -6.568617  -145.095163    -1.357373
-99.939166    -6.988462   -724.543378
 1.00000    -6.568617  -145.087678    -1.357373
-99.959513    -7.570733   -720.210867

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    22.162605   80.637625     5.427653
324.690992   41.072735    1633.582
 0.25000    22.162605   80.643649     5.427653
324.673818   37.596795    1782.089
 0.50000    22.162605   80.650351     5.427653
324.657180   34.706438    1942.864
 0.75000    22.162605   80.657503     5.427653
324.641507   32.390848    2119.987
 1.00000    22.162605   80.665219     5.427653
324.627270   31.323548    2304.998

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -15.183922  -234.617874    -2.926635
-109.262764   -23.202669    -1351.138
 0.25000   -15.183922  -234.609254    -2.926635
-109.278572   -22.544835    -1353.025
 0.50000   -15.183922  -234.600848    -2.926635
-109.296255   -22.678229    -1354.856
 0.75000   -15.183922  -234.592818    -2.926635
-109.315470   -23.886571    -1356.708
 1.00000   -15.183922  -234.585332    -2.926635
-109.335824   -26.063421    -1358.557

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    37.821372   162.229287     6.529688
389.219403   76.406980    2663.272
 0.25000    37.821372   177.977202     6.529688
362.720298   75.872492    2939.418
 0.50000    37.821372   195.415190     6.529688
342.433481   76.801366    3192.581
 0.75000    37.821372   214.143175     6.529688
342.254617   79.101963    3424.082
 1.00000    37.821372   233.712392     6.529688
342.259366   83.137160    3628.412

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -35.348044  -481.160650    -9.307911
-350.567316   -47.699290    -1924.639
 0.25000   -35.348044  -458.430241    -9.307911
-358.264003   -43.907386    -1913.194
 0.50000   -35.348044  -436.200036    -9.307911
-390.238229   -41.274404    -1902.052
 0.75000   -35.348044  -414.910116    -9.307911
-426.256050   -40.041330    -1890.879
 1.00000   -35.348044  -395.018081    -9.307911
-461.602790   -40.273196    -1879.691
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    580

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    40.020624   156.172608     9.769610
481.831603   77.851555    2586.563
 0.25000    40.020624   169.291759     9.769610
459.755937   75.075914    2854.977
 0.50000    40.020624   183.818862     9.769610
442.305553   73.894785    3107.529
 0.75000    40.020624   199.420624     9.769610
442.706547   74.214547    3336.368
 1.00000    40.020624   215.723195     9.769610
442.710503   76.161938    3545.784

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -37.881335  -443.898972    -8.514933
-329.198988   -62.276583    -1988.429
 0.25000   -37.881335  -424.962900    -8.514933
-335.610884   -60.658282    -1991.589
 0.50000   -37.881335  -406.443534    -8.514933
-362.247723   -60.726999    -1995.049
 0.75000   -37.881335  -388.707494    -8.514933
-392.253167   -62.587927    -1998.554
 1.00000   -37.881335  -372.135993    -8.514933
-421.699553   -66.018034    -2002.038

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    17.165433   32.122974     7.931175
241.172470   30.474704    545.187247
 0.25000    17.165433   32.135030     7.931175
241.155269   25.714477    599.737945
 0.50000    17.165433   32.135704     7.931175
241.138605   21.603350    654.510391
 0.75000    17.165433   32.142948     7.931175
241.122908   18.060150    709.746851
 1.00000    17.165433   32.150577     7.931175
241.108648   14.965527    765.137545

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -12.437138  -60.439212    -0.667194
-65.681336   -31.910679   -577.557681
 0.25000   -12.437138  -60.430589    -0.667194
-65.697161   -35.433072   -598.981827
 0.50000   -12.437138  -60.422182    -0.667194
-65.714866   -39.910850   -620.454300
 0.75000   -12.437138  -60.414150    -0.667194
-65.734102   -45.263186   -641.750901
 1.00000   -12.437138  -60.406662    -0.667194
-65.754475   -51.356313   -663.364793

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    22.446031   58.582373    10.987183
419.519912   40.851097    1070.582
 0.25000    22.446031   58.588394    10.987183
419.502782   34.631545    1182.170
 0.50000    22.446031   58.595093    10.987183
419.486187   29.331464    1294.671
 0.75000    22.446031   58.602330    10.987183
```

```
419.470555    24.875857    1409.515
 1.00000    22.446031    58.609952    10.987183
419.456358    21.117300    1525.801

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -27.346125 -131.459987   -3.597768
-89.046861   -69.607214   -1113.054
 0.25000   -27.346125 -131.451371   -3.597768
-89.062634   -70.915466   -1137.445
 0.50000   -27.346125 -131.442970   -3.597768
-89.080284   -73.779659   -1164.604
 0.75000   -27.346125 -131.434943   -3.597768
-89.099462   -78.480541   -1191.883
 1.00000   -27.346125 -131.427460   -3.597768
-89.119777   -84.985210   -1219.208
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          581

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    27.454490    84.776000    11.006632
502.930967    48.041284    1720.600
 0.25000    27.454490    84.841028    11.006632
502.745870    41.756728    1894.393
 0.50000    27.454490    84.913385    11.006632
502.566549    36.409468    2073.962
 0.75000    27.454490    84.991556    11.006632
502.397636    31.966458    2259.325
 1.00000    27.454490    85.073881    11.006632
502.244223    28.405718    2446.701

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -23.685292   -225.295431   -2.592580
-116.751965   -52.998036   -1597.588
 0.25000   -23.685292   -225.202366   -2.592580
-116.922382   -55.842542   -1623.286
 0.50000   -23.685292   -225.111623   -2.592580
-117.113073   -59.035551   -1649.011
 0.75000   -23.685292   -225.024925   -2.592580
-117.320276   -65.858876   -1674.817
 1.00000   -23.685292   -224.944105   -2.592580
-117.539762   -73.031294   -1700.681

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    42.145342   137.731726   12.097365
550.365936    81.207062    2359.716
 0.25000    42.145342   147.282779   12.097365
528.173442    75.344367    2601.137
 0.50000    42.145342   157.892160   12.097365
506.650261    71.016116    2831.412
 0.75000    42.145342   169.322395   12.097365
486.516339    67.954808    3052.576
 1.00000    42.145342   181.316407   12.097365
476.523630    66.412642    3258.616

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -32.605145 -383.335142   -5.980811
-260.490129   -58.162763   -1973.858
 0.25000   -32.605145 -369.606558   -5.980811
-282.375816   -59.098367   -1948.352
 0.50000   -32.605145 -356.204498   -5.980811
-306.952385   -61.566309   -1954.604
 0.75000   -32.605145 -343.385643   -5.980811
-333.666402   -65.813100   -1960.812
 1.00000   -32.605145 -331.424173   -5.980811
-361.791734   -71.359269   -1960.614

 COMB       DB ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    30.738573   166.848054    9.953232
474.813579    84.715250    3072.287
 0.25000    30.738573   193.143927    9.953232
446.185289    85.637656    3276.293
 0.50000    30.738573   222.713040    9.953232
434.842217    88.028057    3464.790
 0.75000    30.738573   254.212617    9.953232
434.812246    92.436966    3649.857
 1.00000    30.738573   286.624398    9.953232
434.795711   100.072537    3807.096

 COMB       DB ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -27.570723 -505.458068  -10.855806
-586.608755   -63.062485   -1665.408
 0.25000   -27.570723 -475.360223  -10.855806
-586.608755   -63.029991   -1579.041
 0.50000   -27.570723 -445.693485  -10.855806
-586.608755   -64.189752   -1492.734
 0.75000   -27.570723 -417.292074  -10.855806
-586.608755   -67.936682   -1406.462
 1.00000   -27.570723 -390.779049  -10.855806
-586.608755   -74.329540   -1320.260
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          582

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       DL ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    46.966943   189.901993   12.097365
550.365936    95.950048    2976.403
 0.25000    46.966943   207.609549   12.097365
528.173442    97.965994    3270.135
 0.50000    46.966943   227.110958   12.097365
506.650261   101.979687    3539.309
 0.75000    46.966943   247.921104   12.097365
502.397636   107.723511    3785.910
 1.00000    46.966943   269.485519   12.097365
502.244223   115.964782    4003.262

 COMB       DL ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -50.586686 -544.545325   -14.027035
-631.438343   -77.504372   -2077.511
 0.25000   -50.586686 -518.754646   -14.027035
-628.125567   -71.787566   -2069.345
 0.50000   -50.586686 -493.448121   -14.027035
-624.812790   -73.779659   -2062.501
 0.75000   -50.586686 -469.145832   -14.027035
-621.500013   -78.480541   -2055.706
 1.00000   -50.586686 -446.411183   -14.027035
-618.187236   -84.985210   -2048.840

 COMB      CAR ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    46.966943   189.901993   12.097365
550.365936    95.950048    3072.287
 0.25000    46.966943   207.609549   12.097365
528.173442    97.965994    3276.293
 0.50000    46.966943   227.110958   12.097365
506.650261   101.979687    3539.309
 0.75000    46.966943   254.212617   12.097365
502.397636   107.723511    3785.910
 1.00000    46.966943   286.624398   12.097365
502.244223   115.964782    4003.262

 COMB      CAR ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -50.586686 -544.545325   -14.027035
-631.438343   -77.504372   -2077.511
 0.25000   -50.586686 -518.754646   -14.027035
-628.125567   -71.787566   -2069.345
 0.50000   -50.586686 -493.448121   -14.027035
-624.812790   -73.779659   -2062.501
 0.75000   -50.586686 -469.145832   -14.027035
-621.500013   -78.480541   -2055.706
 1.00000   -50.586686 -446.411183   -14.027035
-618.187236   -84.985210   -2048.840
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          583

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      25 ================ LENGTH
=    4.987177

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    17.784866   145.085689    1.978698
106.889965    68.705410    2074.643
 0.25000    17.784866   166.922544    1.978698
106.889965    70.589972    2163.133
 0.50000    17.784866   190.871095    1.978698
106.889965    73.532958    2219.188
 0.75000    17.784866   216.399388    1.978698
106.889965    77.708532    2224.435
 1.00000    17.784866   241.988089    1.978698
106.889965    82.993576    2236.060

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -18.225000 -301.077840   -6.869695
-342.464974   -19.844381 -548.025862
 0.25000   -18.225000 -275.239523   -6.869695
-342.464974   -17.497554 -510.056225
 0.50000   -18.225000 -249.084888   -6.869695
-342.464974   -15.152028 -472.086588
 0.75000   -18.225000 -224.222943   -6.869695
-342.464974   -12.808472 -434.116951
 1.00000   -18.225000 -201.254870   -6.869695
-342.464974   -10.472557 -396.147332

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    30.128347   212.243182    4.672124
183.801925    99.333431    3351.103
 0.25000    30.128347   239.814073    4.672124
183.801925   100.554502    3455.127
 0.50000    30.128347   269.940097    4.672124
183.801925   103.589694    3533.845
 0.75000    30.128347   301.986854    4.672124
183.801925   108.336702    3595.857
 1.00000    30.128347   334.945613    4.672124
183.801925   114.635920    3636.960

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -25.481326 -434.850710   -8.942947
-463.378438   -25.580233 -964.533387
 0.25000   -25.481326 -401.603209   -8.942947
-463.378438   -23.006356 -899.352898
 0.50000   -25.481326 -368.821317   -8.942947
-463.378438   -20.456125 -834.172410
 0.75000   -25.481326 -337.614618   -8.942947
-463.378438   -17.940795 -768.991922
 1.00000   -25.481326 -308.701032   -8.942947
-463.378438   -15.478741 -703.811451

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    26.163949   205.810339    4.678215
276.850964    90.718922    3807.988
 0.25000    26.163949   231.127966    4.678215
276.850964    91.369374    3923.595
 0.50000    26.163949   258.785942    4.678215
276.850964    93.683309    4021.596
 0.75000    26.163949   288.201821    4.678215
276.850964    97.634586    4107.703
 1.00000    26.163949   318.518521    4.678215
276.850964   103.031093    4180.282

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -24.332631 -442.567497   -8.559847
-469.222067   -24.612536   -1252.243
 0.25000   -24.332631 -411.987519   -8.559847
-469.222067   -22.470943   -1171.210
 0.50000   -24.332631 -381.900688   -8.559847
-469.222067   -20.345142   -1090.177
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          584

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000   -24.332631 -353.255729   -8.559847
-469.222067   -18.241159   -1009.144
 1.00000   -24.332631 -326.711479   -8.559847
-469.222067   -16.244701   -928.111339

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    26.675841   185.585809    6.510419
315.612837    78.162152    3584.720
 0.25000    26.675841   206.694089    6.510419
315.612837    78.063374    3696.608
 0.50000    26.675841   229.753432    6.510419
315.612837    79.403747    3794.768
 0.75000    26.675841   254.278232    6.510419
315.612837    82.713539    3883.898
 1.00000    26.675841   279.555962    6.510419
315.612837    87.334192    3962.641

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -26.876562 -390.248332   -8.855569
-410.210452   -47.714927   -1320.300
 0.25000   -26.876562 -364.751152   -8.855569
-410.210452   -45.527156   -1239.301
 0.50000   -26.876562 -339.667076   -8.855569
-410.210452   -43.995433   -1158.302
 0.75000   -26.876562 -315.785007   -8.855569
-410.210452   -43.242691   -1077.303
 1.00000   -26.876562 -293.654232   -8.855569
-410.210452   -43.177021   -996.321671

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    10.945252    48.210123    2.419270
137.791979    21.663619    1256.494
 0.25000    10.945252    48.222572    2.419270
137.750751    21.666651    1256.998
 0.50000    10.945252    48.236023    2.419270
137.716413    19.996637    1279.042
 0.75000    10.945252    48.250204    2.419270
137.683591    20.020672    1328.349
 1.00000    10.945252    48.266340    2.419270
137.655300    20.343602    1398.578

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -5.211153   -92.576701   -1.166161
-141.131696   -4.560897   -470.977468
 0.25000    -5.211153   -92.560480   -1.166161
-141.162472   -4.504885   -441.279106
 0.50000    -5.211153   -92.546069   -1.166161
-141.195946   -4.471027   -411.580757
 0.75000    -5.211153   -92.532263   -1.166161
-141.231519   -4.470720   -381.882408
 1.00000    -5.211153   -92.519972   -1.166161
-141.273961   -4.526928   -352.184252

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    10.837106    63.155179    3.846953
261.650811    22.251706    1986.542
 0.25000    10.837106    63.167628    3.846953
261.609583    20.760606    2008.824
 0.50000    10.837106    63.181079    3.846953
261.575245    19.830912    2056.580
 0.75000    10.837106    63.196260    3.846953
261.542423    19.619823    2135.909
 1.00000    10.837106    63.211396    3.846953
261.514132    19.769237    2241.428

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -9.986749 -135.833949   -2.700688
-178.210701   -17.579149 -868.012272
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          585

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000    -9.986749 -135.817728   -2.700688
-178.241477   -17.134822 -816.398625
 0.50000    -9.986749 -135.803317   -2.700688
-178.274951   -17.061935 -764.784992
 0.75000    -9.986749 -135.789511   -2.700688
-178.310524   -17.477821   -713.171359
 1.00000    -9.986749 -135.776613   -2.700688
-178.352966   -18.362785   -661.557744

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    21.272372   167.165496    5.222198
330.505546    68.822321    3366.439
 0.25000    21.272372   188.581361    5.222198
303.047074    68.238343    3474.195
 0.50000    21.272372   211.854017    5.222198
272.338473    68.917722    3567.072
 0.75000    21.272372   236.502039    5.222198
263.803635    71.281001    3650.014
 1.00000    21.272372   263.166892    5.222198
263.803635    74.622732    3722.343

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -21.560886 -374.566104   -6.897624
-310.757554   -27.732455   -1214.459
 0.25000   -21.560886 -347.715363   -6.897624
-313.022973   -26.132619   -1138.339
 0.50000   -21.560886 -322.583045   -6.897624
-344.578496   -24.876506   -1062.219
 0.75000   -21.560886 -298.583694   -6.897624
-374.004594   -24.064013   -986.099361
 1.00000   -21.560886 -276.257700   -6.897624
-401.025065   -23.679438   -909.979474

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    23.221451   152.833067    7.254236
355.086730    60.966232    3167.751
 0.25000    23.221451   170.671102    7.254236
332.215587    59.811073    3271.820
 0.50000    23.221451   190.055734    7.254236
306.637295    59.740409    3364.158
 0.75000    23.221451   210.585953    7.254236
299.528323    61.103119    3449.147
 1.00000    23.221451   232.796062    7.254236
299.528323    63.476814    3525.673

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -23.537832 -329.393701   -6.950250
-282.800664   -51.609590   -1127.493
 0.25000   -23.537832 -307.028760   -6.950250
-284.687013   -50.692023   -1204.011
 0.50000   -23.537832 -286.095153   -6.950250
-310.970736   -50.583503   -1128.528
 0.75000   -23.537832 -266.105236   -6.950250
-335.488785   -51.394597   -1053.046
 1.00000   -23.537832 -247.509117   -6.950250
-357.987101   -53.029539   -977.592614

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.860334    20.653094    4.728322
119.411835    9.496672    523.759929
 0.25000    8.860334    20.665549    4.728322
119.370485    7.993787    544.498599
 0.50000    8.860334    20.679006    4.728322
119.336088    6.537292    566.047262
 0.75000    8.860334    20.693194    4.728322
119.303207    5.123414    588.393394
 1.00000    8.860334    20.709340    4.728322
119.274684    3.770563    611.417999
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          586

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.540256  -24.545906   -1.331058
-39.122937   -45.114032  -401.752552
 0.25000   -9.540256  -24.529675   -1.331058
-39.153774   -46.408548  -384.423116
 0.50000   -9.540256  -24.515258   -1.331058
-39.187310   -48.438009  -367.093693
 0.75000   -9.540256  -24.501446   -1.331058
-39.222945   -51.222460  -349.764270
 1.00000   -9.540256  -24.488542   -1.331058
-39.265466   -54.692414  -332.477863

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    13.920607   38.497472    7.480508
227.360457   12.952745    1103.918
 0.25000    13.920607   38.509920    7.480508
227.319229   10.664231    1143.379
 0.50000    13.920607   38.523372    7.480508
227.284891    8.588505    1186.397
 0.75000    13.920607   38.537583    7.480508
227.252069    7.025984    1232.717
 1.00000    13.920607   38.553688    7.480508
227.223778    5.734530    1282.430

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -18.425050  -58.006172   -3.644526
-66.039171   -72.119392  -744.313392
 0.25000   -18.425050  -57.989952   -3.644526
-66.069948   -72.334013  -708.973074
 0.50000   -18.425050  -57.975541   -3.644526
-66.103422   -74.164790  -673.632769
 0.75000   -18.425050  -57.961735   -3.644526
-66.138995   -77.692065  -638.292464
 1.00000   -18.425050  -57.948836   -3.644526
-66.181436   -82.604892  -603.001531

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    13.837764   56.674299    7.143810
318.788021   18.536600    1921.891
 0.25000    13.837764   56.685503    7.143810
318.750994   16.054928    1970.408
 0.50000    13.837764   56.697609    7.143810
318.720012   13.928503    2033.376
 0.75000    13.837764   56.710372    7.143810
318.690472   12.354937    2110.922
 1.00000    13.837764   56.724894    7.143810
318.665010   11.051638    2203.208

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -16.068407 -113.563315   -3.235493
-146.538992   -60.119849   -1064.223
 0.25000  -16.068407 -113.548716   -3.235493
-146.566691   -60.967227   -1008.315
 0.50000  -16.068407 -113.535747   -3.235493
-146.596818   -62.906375   -952.405571
 0.75000  -16.068407 -113.523321   -3.235493
-146.628833   -66.069278   -896.496621
 1.00000  -16.068407 -113.511713   -3.235493
-146.667031   -70.351064   -840.632771

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    21.800664   125.962044    8.067425
408.465163   49.938920    2622.769
 0.25000    21.800664   138.580974    8.067425
373.047518   47.908441    2911.383
 0.50000    21.800664   152.253934    8.067425
346.163409   46.674216    2994.396
 0.75000    21.800664   166.701256    8.067425
325.939719   46.658411    3078.837
 1.00000    21.800664   182.744096    8.067425
315.390913   47.259738    3165.473
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          587

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -21.893390 -266.888412   -5.505393
-232.393352   -57.202854   -1244.022
 0.25000   -21.893390 -250.747980   -5.505393
-257.253007   -57.335353   -1173.408
 0.50000   -21.893390 -236.042837   -5.505393
-280.409379   -58.382321   -1102.799
 0.75000   -21.893390 -221.976397   -5.505393
-307.968207   -60.455012   -1032.190
 1.00000   -21.893390 -208.862616   -5.505393
-345.206527   -63.486035   -961.618604

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    22.924340   139.529593    2.477750
128.359071   73.250545    2032.299
 0.25000    22.924340   156.524709    2.477750
129.768932   77.244877    2140.639
 0.50000    22.924340   175.132840    2.477750
130.225507   81.994945    2216.697
 0.75000    22.924340   194.848648    2.477750
130.225507   87.578807    2259.057
 1.00000    22.924340   215.107813    2.477750
130.225507   93.849064    2268.217

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -40.876452 -283.434826   -8.528064
-370.040205   -28.312700   -829.309761
 0.25000   -40.876452 -261.274021   -8.528064
-362.843352   -25.947299   -823.674749
 0.50000   -40.876452 -239.472583   -8.528064
-354.693213   -23.663716   -817.923153
 0.75000   -40.876452 -218.616539   -8.528064
-346.086799   -21.394563   -812.224889
 1.00000   -40.876452 -199.217932   -8.528064
-337.480085   -19.142492   -806.626195

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    46.212086   217.543056    5.681572
222.414451   115.197287    3348.703
 0.25000    46.212086   238.364363    5.681572
222.423221   118.696844    3492.443
 0.50000    46.212086   261.168207    5.681572
222.423221   123.052834    3607.577
 0.75000    46.212086   285.370469    5.681572
```

```
222.423221   128.417440    3698.962
 1.00000    46.212086   310.296125     5.681572
222.423221   134.648936    3759.097

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -48.678547  -424.299868  -10.703952
-482.716113   -36.560043   -1466.076
 0.25000   -48.678547  -397.147443  -10.703952
-479.412506   -34.502771   -1458.174
 0.50000   -48.678547  -370.501035  -10.703952
-476.099919   -32.546101   -1450.152
 0.75000   -48.678547  -345.059227  -10.703952
-472.787333   -30.667859   -1442.188
 1.00000   -48.678547  -321.413819  -10.703952
-469.474746   -28.912691   -1434.347

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    42.014521   230.040792     5.769157
310.631129   105.264313    4004.316
 0.25000    42.014521   249.175256     5.769157
310.631129   108.367285    4173.969
 0.50000    42.014521   270.129609     5.769157
310.631129   112.390487    4318.098
 0.75000    42.014521   292.370414     5.769157
310.631129   117.440847    4439.049
 1.00000    42.014521   315.284594     5.769157
310.631129   123.396016    4532.615
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           588

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -46.524744  -455.758351   -10.264031
-475.283676   -40.007891   -1941.503
 0.25000   -46.524744  -430.809333   -10.264031
-472.887831   -38.012284   -1935.950
 0.50000   -46.524744  -406.331194   -10.264031
-470.492151   -36.426558   -1930.313
 0.75000   -46.524744  -382.964174   -10.264031
-468.096471   -35.396986   -1924.738
 1.00000   -46.524744  -361.250798   -10.264031
-465.700791   -34.840523   -1919.259

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    41.042789   212.913867     7.461184
354.843563    92.761996    3889.677
 0.25000    41.042789   228.863313     7.461184
354.843563    94.561766    4054.151
 0.50000    41.042789   246.329719     7.461184
354.843563    97.320323    4197.420
 0.75000    41.042789   264.868442     7.461184
354.843563   101.242352    4321.436
 1.00000    41.042789   283.968453     7.461184
354.843563   106.062545    4423.136

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -50.033411  -416.464784   -10.378957
-420.606459   -63.713792   -2049.042
 0.25000   -50.033411  -395.668643   -10.378957
-418.609414   -61.926063   -2049.022
 0.50000   -50.033411  -375.265001   -10.378957
-416.612505   -60.885594   -2048.935
 0.75000   -50.033411  -355.787527   -10.378957
-414.615597   -60.754686   -2048.898
 1.00000   -50.033411  -337.688440   -10.378957
-412.618689   -61.377494   -2048.942

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    23.306170   66.149616     2.977089
136.132562    34.263798    1359.628
 0.25000    23.306170   66.156100     2.977089
136.114472    32.782152    1389.107
 0.50000    23.306170   66.163253     2.977089
136.097091    31.789757    1430.196
 0.75000    23.306170   66.170900     2.977089
136.080959    31.013759    1488.267
 1.00000    23.306170   66.178864     2.977089
136.066555    30.425170    1554.807

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.705551  -114.974702    -1.339737
-123.007341   -7.707476  -720.295222
 0.25000   -6.705551  -114.966199    -1.339737
-123.023010   -8.032998  -719.132956
 0.50000   -6.705551  -114.957958    -1.339737
-123.040452   -8.430273  -717.983808
 0.75000   -6.705551  -114.950162    -1.339737
-123.059190   -8.922181  -716.828186
 1.00000   -6.705551  -114.942982    -1.339737
-123.078723   -9.537954  -715.676825

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    21.964428   99.055155     4.191953
262.159186    32.564855    2304.249
 0.25000    21.964428   99.061641     4.191953
262.141088    31.247568    2372.640
 0.50000    21.964428   99.068794     4.191953
262.123698    30.334608    2452.998
 0.75000    21.964428   99.076441     4.191953
262.107558    29.893104    2548.704
 1.00000    21.964428   99.084407     4.191953
262.093146    29.832730    2655.118
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           589

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.219074  -182.323584    -2.949525
-157.022103   -26.019222   -1358.569
 0.25000   -15.219074  -182.315081    -2.949525
-157.037779   -25.700215   -1360.483
 0.50000   -15.219074  -182.306839    -2.949525
-157.055229   -25.980506   -1362.414
 0.75000   -15.219074  -182.299042    -2.949525
-157.073974   -26.792114   -1364.343
 1.00000   -15.219074  -182.291861    -2.949525
-157.093515   -28.310922   -1366.275

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    37.228448   195.745603     5.977620
356.631532    83.872927    3628.639
 0.25000    37.228448   212.728386     5.977620
327.405160    85.020641    3788.543
 0.50000    37.228448   231.399820     5.977620
299.043123    86.845440    3925.253
 0.75000    37.228448   251.287118     5.977620
278.118240    89.388900    4039.384
 1.00000    37.228448   271.895046     5.977620
277.935615    92.464497    4128.463

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -35.127920  -400.086684    -7.786052
-300.272691   -39.372534   -1879.940
 0.25000   -35.127920  -377.885706    -7.786052
-307.599125   -38.493494   -1877.550
 0.50000   -35.127920  -356.230130    -7.786052
-339.077410   -38.018015   -1875.124
 0.75000   -35.127920  -335.650823    -7.786052
-373.084274   -38.030088   -1872.782
 1.00000   -35.127920  -316.616382    -7.786052
-407.700015   -38.516874   -1870.410

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    39.088295   184.140232     8.215969
394.452270    76.127412    3545.344
 0.25000    39.088295   198.288116     8.215969
370.104593    76.096382    3700.266
 0.50000    39.088295   213.842768     8.215969
346.476969    76.812570    3835.843
 0.75000    39.088295   230.410324     8.215969
329.045031    78.237551    3952.755
 1.00000    39.088295   247.578215     8.215969
328.892891    80.215136    4049.030

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -37.339426  -366.584792    -7.727005
-279.673104   -64.374162   -2002.053
 0.25000   -37.339426  -348.089775    -7.727005
-285.776552   -64.563575   -2006.101
 0.50000   -37.339426  -330.049117    -7.727005
-312.000236   -65.622627   -2010.118
 0.75000   -37.339426  -312.905069    -7.727005
-340.330409   -67.386282   -2014.206
 1.00000   -37.339426  -297.048006    -7.727005
-369.167819   -69.950160   -2018.273

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    16.515025   32.021991     5.738232
148.752759    13.984684   764.173262
 0.25000    16.515025   32.028478     5.738232
148.734635    11.850551   795.363138
 0.50000    16.515025   32.035634     5.738232
148.717221     9.974365   826.551016
 0.75000    16.515025   32.043283     5.738232
148.701059     8.175734   858.105205
 1.00000    16.515025   32.051251     5.738232
148.686623     6.468437   889.792712
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           590

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.900494   -47.904029    -1.580727
-49.251765   -49.963186   -663.034258
 0.25000   -11.900494   -47.895523    -1.580727
-49.267462   -52.394270   -672.990557
 0.50000   -11.900494   -47.887279    -1.580727
-49.284932   -55.363582   -682.972145
 0.75000   -11.900494   -47.879479    -1.580727
-49.303700   -58.749933   -692.961317
 1.00000   -11.900494   -47.872297    -1.580727
-49.323267   -62.506614   -702.945598

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    21.386196   60.549384     8.405236
266.600338    20.323464    1524.187
 0.25000    21.386196   60.555867     8.405236
266.582283    17.366083    1585.889
 0.50000    21.386196   60.563017     8.405236
266.564948    14.914805    1648.062
 0.75000    21.386196   60.570660     8.405236
266.548835    12.878706    1711.101
 1.00000    21.386196   60.578621     8.405236
266.534460    11.098445    1775.720

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -26.611985  -101.181786    -4.206729
-80.090950   -83.112252   -1218.774
 0.25000   -26.611985  -101.173288    -4.206729
-80.106592   -84.350971   -1230.191
 0.50000   -26.611985  -101.165049    -4.206729
-80.124005   -86.566206   -1241.631
 0.75000   -26.611985  -101.157256    -4.206729
-80.142711   -90.076223   -1253.079
 1.00000   -26.611985  -101.150078    -4.206729
-80.162212   -94.436786   -1261.477

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    26.589394   96.122440     8.212980
347.591557    28.490550    2444.978
 0.25000    26.589394   96.192456     8.212980
347.396476    25.653150    2535.266
 0.50000    26.589394   96.269683     8.212980
347.209031    23.379549    2630.857
 0.75000    26.589394   96.352237     8.212980
347.035060    21.554053    2731.528
 1.00000    26.589394   96.438223     8.212980
346.879731    20.058819    2836.575

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -23.157490  -173.849543    -3.618426
-140.937922   -71.871494   -1700.320
 0.25000   -23.157490  -173.757746    -3.618426
-141.106921   -74.048080   -1712.899
 0.50000   -23.157490  -173.668764    -3.618426
-141.295060   -77.085993   -1725.677
 0.75000   -23.157490  -173.584586    -3.618426
-141.497169   -81.009564   -1738.457
 1.00000   -23.157490  -173.507061    -3.618426
-141.707869   -85.656244   -1751.240

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    41.228422   161.099223     9.360366
434.581648    66.338726    3257.850
 0.25000    41.228422   171.392067     9.360366
410.836405    64.529915    3393.648
 0.50000    41.228422   182.731601     9.360366
387.953797    63.410174    3518.225
 0.75000    41.228422   194.832168     9.360366
366.774619    62.806751    3632.676
 1.00000    41.228422   207.406342     9.360366
348.114456    62.677973    3734.259
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           591

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -32.048638  -313.893020    -6.145969
-241.236303   -69.985992   -1960.475
 0.25000   -32.048638  -300.419039    -6.145969
-262.454725   -71.580404   -1968.266
 0.50000   -32.048638  -287.317820    -6.145969
-286.251565   -73.953391   -1976.031
 0.75000   -32.048638  -274.896514    -6.145969
-311.852878   -77.119598   -1983.845
 1.00000   -32.048638  -263.435693    -6.145969
-338.456393   -80.959384   -1991.630

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    30.128347   212.243182     8.067425
408.465163    99.333431    3807.988
 0.25000    30.128347   239.814073     8.067425
373.047518   100.554502    3923.595
 0.50000    30.128347   269.940097     8.067425
346.163409   103.589694    4021.596
 0.75000    30.128347   301.986854     8.067425
325.939719   108.336702    4107.703
 1.00000    30.128347   334.945613     8.067425
318.665010   114.635920    4180.282

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -26.876562  -442.567497    -8.942947
-469.222067   -72.119392   -1320.300
 0.25000   -26.876562  -411.987519    -8.942947
-469.222067   -72.334013   -1239.301
 0.50000   -26.876562  -381.900688    -8.942947
-469.222067   -74.164790   -1158.302
 0.75000   -26.876562  -353.255729    -8.942947
-469.222067   -77.692065   -1077.303
 1.00000   -26.876562  -326.711479    -8.942947
-469.222067   -82.604892   -996.321671

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    46.212086   230.040792     9.360366
434.581648   115.197287    4004.316
 0.25000    46.212086   249.175256     9.360366
410.836405   118.696844    4173.969
 0.50000    46.212086   270.129609     9.360366
387.953797   123.052834    4318.098
 0.75000    46.212086   292.370414     9.360366
366.774619   128.417440    4439.049
 1.00000    46.212086   315.284594     9.360366
354.843563   134.648936    4532.615

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -50.033411  -455.758351   -10.703952
-482.716113   -83.112252   -2049.042
 0.25000   -50.033411  -430.809333   -10.703952
-479.412506   -84.350971   -2049.022
 0.50000   -50.033411  -406.331194   -10.703952
-476.099919   -86.566206   -2048.935
 0.75000   -50.033411  -382.964174   -10.703952
-472.787333   -90.076223   -2048.898
 1.00000   -50.033411  -361.250798   -10.703952
-469.474746   -94.436786   -2048.942

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    46.212086   230.040792     9.360366
434.581648   115.197287    4004.316
 0.25000    46.212086   249.175256     9.360366
410.836405   118.696844    4173.969
 0.50000    46.212086   270.129609     9.360366
387.953797   123.052834    4318.098
 0.75000    46.212086   301.986854     9.360366
366.774619   128.417440    4439.049
 1.00000    46.212086   334.945613     9.360366
354.843563   134.648936    4532.615
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           592

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -50.033411  -455.758351   -10.703952
-482.716113   -83.112252   -2049.042
 0.25000   -50.033411  -430.809333   -10.703952
-479.412506   -84.350971   -2049.022
 0.50000   -50.033411  -406.331194   -10.703952
-476.099919   -86.566206   -2048.935
 0.75000   -50.033411  -382.964174   -10.703952
-472.787333   -90.076223   -2048.898
 1.00000   -50.033411  -361.250798   -10.703952
-469.474746   -94.436786   -2048.942

 COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    46.212086   230.040792     9.360366
434.581648   115.197287    4004.316
 0.25000    46.212086   249.175256     9.360366
410.836405   118.696844    4173.969
 0.50000    46.212086   270.129609     9.360366
387.953797   123.052834    4318.098
 0.75000    46.212086   301.986854     9.360366
366.774619   128.417440    4439.049
 1.00000    46.212086   334.945613     9.360366
354.843563   134.648936    4532.615

 COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -50.033411  -455.758351   -10.703952
-482.716113   -83.112252   -2049.042
 0.25000   -50.033411  -430.809333   -10.703952
-479.412506   -84.350971   -2049.022
 0.50000   -50.033411  -406.331194   -10.703952
-476.099919   -86.566206   -2048.935
 0.75000   -50.033411  -382.964174   -10.703952
-472.787333   -90.076223   -2048.898
 1.00000   -50.033411  -361.250798   -10.703952
-469.474746   -94.436786   -2048.942

 ELEM      26 ================== LENGTH
=     4.988032

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    17.202965   171.260171     4.284860
222.499794    82.157099    2236.629
 0.25000    17.202965   193.902142     4.284860
222.499794    80.714919    2285.823
 0.50000    17.202965   218.624772     4.284860
222.499794    80.324376    2300.639
 0.75000    17.202965   244.849538     4.284860
222.499794    81.343541    2286.922
 1.00000    17.202965   270.993703     4.284860
222.499794    83.415785    2239.162

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -17.622845  -271.900935    -4.724751
-223.467323    -9.119335   -396.096340
 0.25000   -17.622845  -245.750627    -4.724751
-223.467323    -7.958046   -362.586564
 0.50000   -17.622845  -219.517994    -4.724751
-223.467323    -7.775929   -342.427824
 0.75000   -17.622845  -194.781817    -4.724751
-223.467323    -9.375085   -377.493510
 1.00000   -17.622845  -172.122041    -4.724751
-223.467323   -10.983584   -412.567232

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    29.483784   257.740657     6.028868
321.931938   113.605802    3637.548
 0.25000    29.483784   286.253389     6.028868
321.931938   111.658539    3672.419
 0.50000    29.483784   317.286199     6.028868
321.931938   111.239124    3678.348
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           593

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000    29.483784   350.145666     6.028868
321.931938   112.576676    3674.494
 1.00000    29.483784   383.750869     6.028868
321.931938   115.436800    3642.143

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -24.671787  -385.314325    -6.613846
-323.288885   -13.707199   -703.728757
 0.25000   -24.671787  -351.704049    -6.613846
-323.288885   -12.455238   -645.179334
 0.50000   -24.671787  -318.833162    -6.613846
-323.288885   -12.609287   -610.430320
 0.75000   -24.671787  -287.783802    -6.613846
-323.288885   -14.640043   -671.767259
 1.00000   -24.671787  -259.249313    -6.613846
-323.288885   -16.701691   -733.107375

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    25.436922   263.626892     6.143418
375.698559   102.524665    4180.749
 0.25000    25.436922   289.804027     6.143418
375.698559   100.073599    4204.618
 0.50000    25.436922   318.289486     6.143418
375.698559    99.164903    4208.387
 0.75000    25.436922   348.466865     6.143418
375.698559   100.605365    4201.422
 1.00000    25.436922   379.353112     6.143418
375.698559   103.853007    4186.803

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -23.476023  -381.285034    -6.698117
-376.901283   -14.924700   -928.041068
 0.25000   -23.476023  -350.374164    -6.698117
-376.901283   -13.953116   -852.917495
 0.50000   -23.476023  -320.206335    -6.698117
-376.901283   -14.203300   -809.775178
 0.75000   -23.476023  -291.705717    -6.698117
-376.901283   -16.133270   -888.607501
 1.00000   -23.476023  -265.508440    -6.698117
-376.901283   -18.074922   -967.441840

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    25.863941   233.053666     7.186597
353.292439    86.944270    3962.886
 0.25000    25.863941   254.878392     7.186597
353.292439    84.997435    3982.187
 0.50000    25.863941   278.647485     7.186597
353.292439    84.332359    3985.120
 0.75000    25.863941   303.770360     7.186597
353.292439    85.598947    3985.100
 1.00000    25.863941   329.539497     7.186597
353.292439    88.365735    3969.155

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -26.028946  -330.781211    -7.529306
-354.050671   -41.511621   -996.293126
 0.25000   -26.028946  -305.008221    -7.529306
-354.050671   -39.846886   -918.131696
 0.50000   -26.028946  -279.856635    -7.529306
-354.050671   -39.780805   -874.937093
 0.75000   -26.028946  -256.094905    -7.529306
-354.050671   -41.807618   -957.123296
 1.00000   -26.028946  -234.253388    -7.529306
-354.050671   -44.425372   -1039.311

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.972320   69.822391     1.231972
143.801096    20.378240    1398.630
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           594

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000    10.972320   69.835133     1.231972
143.758766    20.202246    1365.928
 0.50000    10.972320   69.848865     1.231972
143.723290    20.218351    1351.357
 0.75000    10.972320   69.863294     1.231972
143.689919    20.402290    1367.111
 1.00000    10.972320   69.879621     1.231972
143.659705    20.779813    1401.021

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.136083   -70.571607    -1.298103
-143.953564   -4.373194   -352.159769
 0.25000   -5.136083   -70.555278    -1.298103
-143.983786   -4.484081   -324.111155
 0.50000   -5.136083   -70.540845    -1.298103
-144.017196   -4.783405   -308.224017
 0.75000   -5.136083   -70.527106    -1.298103
-144.052679   -5.096741   -337.682704
 1.00000   -5.136083   -70.514358    -1.298103
-144.095016   -5.420212   -367.143879

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.655405   95.908327     2.860097
226.203956    20.164129    2241.370
 0.25000    10.655405   95.921068     2.860097
226.161626    19.280932    2200.779
 0.50000    10.655405   95.934800     2.860097
226.126149    18.751716    2184.729
 0.75000    10.655405   95.949229     2.860097
```

```
226.092779   19.241223    2202.870
 1.00000   10.655405   95.965557     2.860097
226.062564   20.373007    2245.679

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.743792  -97.181692   -2.924219
-226.205308  -18.198477 -661.552168
 0.25000   -9.743792  -97.165364   -2.924219
-226.235530  -17.875800 -610.603151
 0.50000   -9.743792  -97.150930   -2.924219
-226.268940  -18.061997 -583.078762
 0.75000   -9.743792  -97.137192   -2.924219
-226.304424  -18.649143 -636.709132
 1.00000   -9.743792  -97.124443   -2.924219
-226.346760  -19.582920 -690.341818

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   20.769735  217.098344    5.497479
368.497928   74.441284   3722.399
 0.25000   20.769735   239.133517    5.497479
341.614516   72.631412   3742.456
 0.50000   20.769735   263.001525    5.497479
312.213051   71.857122   3745.513
 0.75000   20.769735   288.179733    5.497479
280.657829   73.046049   3745.206
 1.00000   20.769735   315.262145    5.497479
278.396932   75.511641   3728.292

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -20.930998 -317.079781   -5.865717
-279.147074  -22.648694 -909.933752
 0.25000  -20.930998 -289.994831   -5.865717
-281.496854  -21.674357 -837.682094
 0.50000  -20.930998 -264.808083   -5.865717
-313.047020  -21.965238 -797.092516
 0.75000  -20.930998 -240.928048   -5.865717
-342.444310  -23.474943 -873.000746
 1.00000  -20.930998 -218.878220   -5.865717
-369.329382  -25.298680 -948.921297
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       595

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   22.496474  193.603968    6.638050
338.343221   63.360482   3525.562
 0.25000   22.496474  211.957851    6.638050
315.951066   61.891552   3541.726
 0.50000   22.496474  231.838369    6.638050
291.461535   61.289847   3544.091
 0.75000   22.496474  252.810198    6.638050
265.178063   62.346613   3544.549
 1.00000   22.496474  275.368107    6.638050
263.294881   64.473374   3531.615

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -22.773131 -276.079994   -6.800158
-263.630842  -51.553479 -977.589959
 0.25000  -22.773131 -253.519971   -6.800158
-265.588058  -50.101261 -902.552487
 0.50000  -22.773131 -232.541028   -6.800158
-291.867320  -50.165636 -862.165472
 0.75000  -22.773131 -212.650493   -6.800158
-316.353373  -51.793706 -941.175694
 1.00000  -22.773131 -194.284404   -6.800158
-338.746911  -54.145367  -1020.196

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   8.474319   19.157085    3.132035
 43.782120   3.144303   611.174499
 0.25000   8.474319   19.169832    3.132035
 43.739711   2.383260   610.521827
 0.50000   8.474319   19.183570    3.132035
 43.704172   2.135964   610.493472
 0.75000   8.474319   19.198005    3.132035
 43.670712   2.484848   611.049317
 1.00000   8.474319   19.214343    3.132035
 43.640439   3.422929   612.884072

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -9.196635  -18.142365   -2.895671
-43.183389  -53.700085 -332.534688
 0.25000  -9.196635  -18.126026   -2.895671
-43.213669  -52.738706 -310.411495
 0.50000  -9.196635  -18.111587   -2.895671
-43.247169  -52.504541 -300.839016
 0.75000  -9.196635  -18.097842   -2.895671
-43.282715  -53.061664 -324.363245
 1.00000  -9.196635  -18.085088   -2.895671
-43.325131  -54.341873 -347.887485

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.325492   39.286688    5.474537
107.236437   5.028045   1282.055
 0.25000   13.325492   39.299430    5.474537
107.194107   4.496869   1278.027
 0.50000   13.325492   39.313162    5.474537
107.158631   4.682851   1276.158
 0.75000   13.325492   39.327591    5.474537
107.125260   4.876990   1279.629
 1.00000   13.325492   39.343918    5.474537
107.095046   5.717477   1285.368

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.043249  -38.432953   -5.142151
-106.436587  -81.068542 -603.083727
 0.25000  -18.043249  -38.416625   -5.142151
-106.466809  -79.066832 -561.405214
 0.50000  -18.043249  -38.402191   -5.142151
-106.500219  -78.456470 -542.218792
 0.75000  -18.043249  -38.388452   -5.142151
-106.535703  -79.506592 -586.417536
 1.00000  -18.043249  -38.375704   -5.142151
-106.578039  -81.938459 -630.616384
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       596

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.396501   78.422296    5.212446
201.973399   10.792797   2202.869
 0.25000   13.396501   78.433764    5.212446
201.935302   9.613311   2182.103
 0.50000   13.396501   78.446122    5.212446
201.903373   9.231351   2174.992
 0.75000   13.396501   78.459108    5.212446
201.873339   9.634186   2184.538
 1.00000   13.396501   78.473803    5.212446
201.846146   11.038686   2207.848

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -15.561972  -78.195541   -4.982546
-201.378028  -69.338264  -840.696106
 0.25000  -15.561972  -78.180846   -4.982546
-201.405228  -68.673008  -779.889488
 0.50000  -15.561972  -78.167855   -4.982546
-201.435297  -67.875066  -749.795899
 0.75000  -15.561972  -78.155491   -4.982546
-201.467232  -68.842847  -814.073482
 1.00000  -15.561972  -78.144017   -4.982546
-201.505335  -70.867698  -878.351224

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   21.137216  160.931277    6.351996
349.848759   46.721977   3165.197
 0.25000   21.137216  173.880107    6.351996
313.693714   45.138170   3167.238
 0.50000   21.137216  187.869862    6.351996
284.621934   44.613163   3165.128
 0.75000   21.137216  202.598019    6.351996
261.523627   45.481258   3169.997
 1.00000   21.137216  218.860553    6.351996
236.717412   47.556747   3171.061

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -21.194049 -219.215881   -6.362358
-236.815845  -62.077803 -961.639190
 0.25000  -21.194049 -202.952321   -6.362358
-261.617061  -60.695839 -889.320939
 0.50000  -21.194049 -188.219213   -6.362358
-284.713069  -60.779641 -851.392129
 0.75000  -21.194049 -174.222631   -6.362358
-313.775710  -62.117392 -927.637003
 1.00000  -21.194049 -161.265945   -6.362358
-349.975598  -64.444016  -1003.894

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   22.188088  164.834365    5.034076
226.289956   92.634631   2268.689
 0.25000   22.188088  183.154313    5.034076
232.085571   92.080409   2323.343
 0.50000   22.188088  203.042265    5.034076
236.899206   92.245771   2344.688
 0.75000   22.188088  223.954172    5.034076
240.652500   93.258166   2331.844
 1.00000   22.188088  245.345528    5.034076
243.423735   94.985750   2285.590

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -40.244690 -247.726290   -5.227167
-244.619102  -17.487037 -806.782068
 0.25000  -40.244690 -226.308105   -5.227167
-241.806526  -17.483583 -808.662837
 0.50000  -40.244690 -205.357280   -5.227167
-238.011944  -17.846459 -817.615919
 0.75000  -40.244690 -185.441837   -5.227167
-233.157074  -18.870903 -812.611171
 1.00000  -40.244690 -167.082531   -5.227167
-227.320118  -19.906557 -814.567152
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       597

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   45.351674  262.050110    7.151428
338.824417  133.147826   3759.664
 0.25000   45.351674  284.421714    7.151428
342.137572  132.670383   3809.609
 0.50000   45.351674  308.715433    7.151428
344.655133  133.048518   3829.631
 0.75000   45.351674  334.319169    7.151428
345.407166  134.288554   3821.503
 1.00000   45.351674  360.564302    7.151428
345.407166  136.667763   3789.438

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -47.861679 -364.669415   -7.459458
-346.861688  -26.879914   -1434.554
 0.25000  -47.861679 -338.389918   -7.459458
-346.861688  -26.890274   -1437.964
 0.50000  -47.861679 -312.748557   -7.459458
-346.066064  -27.518337   -1441.493
 0.75000  -47.861679 -288.405878   -7.459458
-343.504971  -28.898206   -1445.056
 1.00000  -47.861679 -265.998715   -7.459458
-340.191817  -30.389231   -1448.574

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   41.201708  286.461182    7.185049
381.421626  122.563688   4532.998
 0.25000   41.201708  307.008719    7.185049
383.817717  121.786761   4582.081
 0.50000   41.201708  329.325164    7.185049
385.769267  121.939646   4603.902
 0.75000   41.201708  352.848896    7.185049
386.183361  123.382934   4602.091
 1.00000   41.201708  376.967640    7.185049
386.183361  125.849021   4572.866

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -45.799873 -382.402017   -7.510506
-387.609485  -33.174839   -1919.431
 0.25000  -45.799873 -358.244168   -7.510506
-387.609485  -33.167586   -1924.022
 0.50000  -45.799873 -334.693613   -7.510506
-387.164923  -32.825687   -1928.709
 0.75000  -45.799873 -312.332369   -7.510506
-385.182946  -34.271730   -1933.443
 1.00000  -45.799873 -291.752365   -7.510506
-382.786855  -36.203673   -1938.153

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   40.097976  263.427441    8.024056
365.430555  105.327031   4423.266
 0.25000   40.097976  280.554748    8.024056
367.427806  104.669876   4466.373
 0.50000   40.097976  299.156519    8.024056
369.054512  104.870271   4486.909
 0.75000   40.097976  318.764621    8.024056
369.399678  106.153509   4487.721
 1.00000   40.097976  338.868690    8.024056
369.399678  108.364397   4465.830

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -49.228050 -344.390980   -8.273632
-370.511578  -59.638924   -2049.022
 0.25000  -49.228050 -324.254330   -8.273632
-370.511578  -58.650227   -2053.918
 0.50000  -49.228050 -304.623855   -8.273632
-370.14015   -58.869228   -2058.894
 0.75000  -49.228050 -285.984741   -8.273632
-368.488948  -60.220298   -2063.910
 1.00000  -49.228050 -268.830372   -8.273632
-366.491697  -62.348814   -2068.905
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       598

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   23.289971   87.590999    1.568122
135.600135   30.439515   1554.833
 0.25000   23.289971   87.597862    1.568122
135.581353   30.460687   1539.145
 0.50000   23.289971   87.605370    1.568122
135.563363   30.633354   1534.896
 0.75000   23.289971   87.613348    1.568122
135.546605   30.963396   1546.503
 1.00000   23.289971   87.621618    1.568122
135.531610   31.423611   1569.556

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.654172  -89.567012   -1.658578
-135.768434   -9.483720  -715.705251
 0.25000   -6.654172  -89.558727   -1.658578
-135.783457   -9.522560  -717.472368
 0.50000   -6.654172  -89.550743   -1.658578
-135.800225   -9.725653  -719.249513
 0.75000   -6.654172  -89.543221   -1.658578
-135.818223   -9.993617  -721.022905
 1.00000   -6.654172  -89.536352   -1.658578
-135.836996   -10.367002  -722.795711

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   21.793612  133.678205    3.100464
211.803720   30.371672   2654.951
 0.25000   21.793612  133.685068    3.100464
211.784930   29.950817   2643.315
 0.50000   21.793612  133.692577    3.100464
211.766932   29.915878   2642.589
 0.75000   21.793612  133.700656    3.100464
211.750171   30.417078   2657.468
 1.00000   21.793612  133.708827    3.100464
211.735164   31.396391   2683.235

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -15.103906 -137.476720   -3.224275
-212.049834  -28.276910   -1366.262
 0.25000  -15.103906 -137.468433   -3.224275
-212.064863  -27.764699   -1369.582
 0.50000  -15.103906 -137.460449   -3.224275
-212.081639  -27.811208   -1372.915
 0.75000  -15.103906 -137.452926   -3.224275
-212.099645  -28.290076   -1376.255
 1.00000  -15.103906 -137.446056   -3.224275
-212.118426  -29.188997   -1379.613

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   36.595240  246.418050    6.154227
373.367591   92.158621   4128.558
 0.25000   36.595240  264.529067    6.154227
341.233066   91.849756   4174.881
 0.50000   36.595240  284.263852    6.154227
310.083428   92.109059   4195.722
 0.75000   36.595240  305.154050    6.154227
281.347622   93.138884   4194.033
 1.00000   36.595240  326.686745    6.154227
276.038133   94.804638   4167.325

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -34.602859 -331.945977   -6.417855
-276.386003  -37.343384   -1810.504
 0.25000  -34.602859 -310.378623   -6.417855
-282.333241  -37.179876   -1875.028
 0.50000  -34.602859 -289.466220   -6.417855
-311.102866  -37.567130   -1879.596
 0.75000  -34.602859 -269.696018   -6.417855
-342.278895  -38.665540   -1884.209
 1.00000  -34.602859 -251.563263   -6.417855
-374.442431   -40.142429   -1888.785
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       599

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   38.251237  228.799203    7.186032
355.663672   79.668033   4048.910
 0.25000   38.251237  243.886988    7.186032
328.893293   79.349046   4089.532
 0.50000   38.251237  260.327488    7.186032
302.943396   79.586868   4109.422
 0.75000   38.251237  277.730531    7.186032
279.004396   80.576879   4110.392
 1.00000   38.251237  295.668820    7.186032
274.581208   82.190741   4090.712

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -36.617120 -300.897234   -7.378015
-275.148343  -68.427708   -2018.271
 0.25000  -36.617120 -282.930071   -7.378015
-279.649432  -67.702914   -2035.136
 0.50000  -36.617120 -265.508530   -7.378015
-303.611807  -67.929252   -2028.036
 0.75000  -36.617120 -249.038525   -7.378015
-329.583689  -69.060955   -2032.960
 1.00000  -36.617120 -233.932631   -7.378015
-356.378236  -70.802023   -2037.888

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   16.047511   34.864152    3.336495
 66.150195   5.682805   889.481337
 0.25000   16.047511   34.870017    3.336495
 66.731379   5.043548   892.856867
 0.50000   16.047511   34.878528    3.336495
 66.713357   4.849022   896.447972
 0.75000   16.047511   34.886509    3.336495
 66.696574   5.267059   900.035811
 1.00000   16.047511   34.894783    3.336495
 66.681545   6.127202   903.892181

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.470644  -36.232137   -3.293439
-66.302951  -61.505241  -702.812452
 0.25000  -11.470644  -36.223847   -3.293439
-66.318002  -60.660358  -704.189366
 0.50000  -11.470644  -36.215861   -3.293439
-66.334799  -60.422238  -705.829079
 0.75000  -11.470644  -36.208336   -3.293439
-66.352830  -60.845614  -707.653372
 1.00000  -11.470644  -36.201464   -3.293439
-66.371636  -61.853547  -709.634643

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   20.656034   70.711074    5.749238
133.522775   10.380743   1775.202
 0.25000   20.656034   70.717934    5.749238
133.504027   9.612506   1780.965
 0.50000   20.656034   70.725439    5.749238
133.486070   9.598856   1787.308
 0.75000   20.656034   70.733414    5.749238
133.469341   10.021095   1793.946
 1.00000   20.656034   70.741681    5.749238
133.454374   11.152817   1801.243

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -26.045413  -73.569967   -5.696664
-133.086910   -93.165358   -1261.290
 0.25000  -26.045413  -73.561687   -5.696664
-133.101905   -91.488604   -1267.299
 0.50000  -26.045413  -73.553707   -5.696664
-133.118642   -90.923444   -1267.307
 0.75000  -26.045413  -73.546188   -5.696664
-133.136609   -91.761606   -1270.318
 1.00000  -26.045413  -73.539321   -5.696664
-133.155348   -93.669670   -1277.437
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       600

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   25.961134  123.909656    5.412761
212.457120   19.840834   2836.067
 0.25000   25.961134  123.983755    5.412761
212.254552   18.996594   2837.856
 0.50000   25.961134  124.064821    5.412761
212.060522   18.923616   2844.236
 0.75000   25.961134  124.150954    5.412761
211.879771   19.482870   2855.925
 1.00000   25.961134  124.240247    5.412761
211.718051   20.899061   2872.247

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -22.663867 -128.458979   -5.442459
-211.536378  -84.898727   -1751.078
 0.25000  -22.663867 -128.369549   -5.442459
-211.698394  -83.745314   -1755.291
 0.50000  -22.663867 -128.283355   -5.442459
-211.879241  -83.513663   -1759.503
 0.75000  -22.663867 -128.202139   -5.442459
-212.073363  -84.230758   -1763.743
 1.00000  -22.663867 -128.127969   -5.442459
-212.275837  -85.827991   -1767.953

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   40.451765  200.500332    6.910492
354.446333   62.022609   3733.972
 0.25000   40.451765   211.432007    6.910492
329.307766   61.353925   3761.903
 0.50000   40.451765  223.370841    6.910492
305.116844   61.538880   3777.493
 0.75000   40.451765  236.033806    6.910492
282.672128   62.381620   3782.532
 1.00000   40.451765  249.128338    6.910492
262.772739   64.145603   3775.133

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -31.374378 -254.149660   -7.053299
-263.311557   -79.702218   -2206.562
 0.25000  -31.374378 -241.035137   -7.053299
-282.949667   -78.729257   -1996.387
 0.50000  -31.374378 -228.361265   -7.053299
-305.406864   -78.800334   -2001.215
 0.75000  -31.374378 -216.400295   -7.053299
-329.615840   -79.841579   -2006.073
 1.00000  -31.374378 -205.456673   -7.053299
-354.749880   -81.680004   -2010.907

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   29.483784  263.626892    7.186597
375.698559  113.605802   4180.749
 0.25000   29.483784  289.804027    7.186597
375.698559  111.658539   4204.618
 0.50000   29.483784  318.289486    7.186597
375.698559  111.239124   4208.387
 0.75000   29.483784  350.145666    7.186597
375.698559  112.576678   4201.422
 1.00000   29.483784  383.750869    7.186597
375.698559  115.436800   4186.803

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -26.028946 -385.314325   -7.529306
-376.901283  -81.068542  -996.293126
 0.25000  -26.028946 -351.704049   -7.529306
-376.901283  -79.066832  -918.131696
 0.50000  -26.028946 -320.206335   -7.529306
-376.901283  -78.456470  -874.937093
 0.75000  -26.028946 -291.705717   -7.529306
-376.901283  -79.506592  -957.123296
 1.00000  -26.028946 -265.508440   -7.529306
-376.901283  -81.938459  -1039.311
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                       601

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   45.351674  286.461182    8.024056
381.421626  133.147826   4532.998
 0.25000   45.351674  307.008719    8.024056
383.817717  132.670383   4582.081
 0.50000   45.351674  329.325164    8.024056
385.769267  133.048518   4603.902
 0.75000   45.351674  352.848896    8.024056
386.183361  134.438554   4602.091
 1.00000   45.351674  376.967640    8.024056
386.183361  136.667763   4572.866

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -49.228050 -382.402017   -8.273632
```

```
-387.609485  -93.165358  -2049.022
 0.25000  -49.228050 -358.244188    -8.273632
-387.609485  -91.488604  -2053.918
 0.50000  -49.228050 -334.693613    -8.273632
-387.164923  -90.923444  -2058.894
 0.75000  -49.228050 -312.332369    -8.273632
-385.182946  -91.761606  -2063.910
 1.00000  -49.228050 -291.752365    -8.273632
-382.786855  -93.669670  -2068.905

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   45.351674  286.461182   8.024056
381.421626  133.147826   4532.998
 0.25000   45.351674  307.008719   8.024056
383.817717  132.670383   4582.081
 0.50000   45.351674  329.325164   8.024056
385.769267  133.048518   4603.902
 0.75000   45.351674  352.848896   8.024056
386.183361  134.438554   4602.091
 1.00000   45.351674  383.750869   8.024056
386.183361  136.667763   4572.866

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -49.228050 -385.314325    -8.273632
-387.609485  -93.165358  -2049.022
 0.25000  -49.228050 -358.244188    -8.273632
-387.609485  -91.488604  -2053.918
 0.50000  -49.228050 -334.693613    -8.273632
-387.164923  -90.923444  -2058.894
 0.75000  -49.228050 -312.332369    -8.273632
-385.182946  -91.761606  -2063.910
 1.00000  -49.228050 -291.752365    -8.273632
-382.786855  -93.669670  -2068.905

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   45.351674  286.461182   8.024056
381.421626  133.147826   4532.998
 0.25000   45.351674  307.008719   8.024056
383.817717  132.670383   4582.081
 0.50000   45.351674  329.325164   8.024056
385.769267  133.048518   4603.902
 0.75000   45.351674  352.848896   8.024056
386.183361  134.438554   4602.091
 1.00000   45.351674  383.750869   8.024056
386.183361  136.667763   4572.866

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -49.228050 -385.314325    -8.273632
-387.609485  -93.165358  -2049.022
 0.25000  -49.228050 -358.244188    -8.273632
-387.609485  -91.488604  -2053.918
 0.50000  -49.228050 -334.693613    -8.273632
-387.164923  -90.923444  -2058.894
 0.75000  -49.228050 -312.332369    -8.273632
-385.182946  -91.761606  -2063.910
 1.00000  -49.228050 -291.752365    -8.273632
-382.786855  -93.669670  -2068.905
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    602

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        27 ================== LENGTH
=     4.988005

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   16.592649  200.326598   6.423146
341.770553   82.414064   2238.627
 0.25000   16.592649  223.294304   6.423146
341.770553   77.729650   2246.446
 0.50000   16.592649  248.162261   6.423146
341.770553   74.150024   2224.596
 0.75000   16.592649  274.327679   6.423146
341.770553   71.791052   2169.868
 1.00000   16.592649  300.181166   6.423146
341.770553   70.463660   2082.611

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -16.926344 -242.889377    -2.353828
-107.305862  -10.967247  -412.698220
 0.25000  -16.926344 -217.281209    -2.353828
-107.305862  -13.744493  -452.373491
 0.50000  -16.926344 -191.727484    -2.353828
-107.305862  -11.653750  -492.058367
 0.75000  -16.926344 -167.749089    -2.353828
-107.305862  -19.324196  -531.743522
 1.00000  -16.926344 -145.878239    -2.353828
-107.305862  -22.120541  -571.428677

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   28.810979  307.099276   8.313586
462.519078  114.014466   3641.639
 0.25000   28.810979  336.013536   8.313586
462.519078  108.589984   3603.029
 0.50000   28.810979  367.227368   8.313586
462.519078  104.708693   3543.377
 0.75000   28.810979  400.022909   8.313586
462.519078  102.505112   3466.930
 1.00000   28.810979  433.289149   8.313586
462.519078  102.045809   3364.994

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -23.680231 -336.410503    -5.123919
-184.387678  -16.728524  -733.294755
 0.25000  -23.680231 -303.756366    -5.123919
-184.387678  -19.845848  -801.464665
 0.50000  -23.680231 -271.349128    -5.123919
-184.387678  -23.005834  -869.644781
 0.75000  -23.680231 -241.187183    -5.123919
-184.387678  -26.196952  -937.830617
 1.00000  -23.680231 -213.575561    -5.123919
-184.387678  -29.407459  -1006.016

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   24.766679  324.688000   8.012482
468.614396  102.544783   4186.425
 0.25000   24.766679  351.232840   8.012482
468.614396   97.901062   4116.847
 0.50000   24.766679  379.884360   8.012482
468.614396   94.711658   4033.785
 0.75000   24.766679  409.983698   8.012482
468.614396   93.171551   3938.666
 1.00000   24.766679  440.580896   8.012482
468.614396   93.276755   3825.728

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -22.525578 -320.226641    -5.136518
-277.296098  -18.174138  -967.593813
 0.25000  -22.525578 -289.886613    -5.136518
-277.296098  -20.874890  -1052.490
 0.50000  -22.525578 -260.442839    -5.136518
-277.296098  -23.604170  -1137.393
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    603

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2         M3
 0.75000  -22.525578 -232.752005    -5.136518
-277.296098  -26.355182  -1222.296
 1.00000  -22.525578 -207.397057    -5.136518
-277.296098  -29.119786  -1307.199

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   25.225130  291.583607   8.487696
409.354031   87.283495   3968.961
 0.25000   25.225130  313.714873   8.487696
409.354031   83.421724   3893.274
 0.50000   25.225130  337.602412   8.487696
409.354031   80.781634   3807.262
 0.75000   25.225130  362.696916   8.487696
409.354031   79.512836   3712.045
 1.00000   25.225130  388.208453   8.487696
409.354031   80.054606   3602.921

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -25.128638 -280.207296    -6.772885
-315.682176  -44.260998  -1039.376
 0.25000  -25.128638 -254.910117    -6.772885
-315.682176  -45.056368  -1124.456
 0.50000  -25.128638 -230.362062    -6.772885
-315.682176  -46.478592  -1209.541
 0.75000  -25.128638 -207.275328    -6.772885
-315.682176  -48.684161  -1294.627
 1.00000  -25.128638 -186.135934    -6.772885
-315.682176  -51.543602  -1379.712

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   11.007042   91.778077   1.057206
141.279081   20.422995   1401.037
 0.25000   11.007042   91.790975   1.057206
141.236631   20.384945   1331.940
 0.50000   11.007042   91.804784   1.057206
141.201054   20.561501   1283.647
 0.75000   11.007042   91.819202   1.057206
141.167578   21.098145   1262.649
 1.00000   11.007042   91.835430   1.057206
141.136800   22.267990   1263.110

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.918918  -48.830740    -2.433216
-137.782320   -5.487366  -367.180374
 0.25000   -4.918918  -48.814592    -2.433216
-137.810693   -5.613287  -398.306931
 0.50000   -4.918918  -48.800399    -2.433216
-137.843506   -5.777298  -429.439697
 0.75000   -4.918918  -48.786935    -2.433216
-137.877833   -5.965435  -460.572462
 1.00000   -4.918918  -48.774470    -2.433216
-137.919083   -6.170242  -491.705227

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   10.646856  134.448702   2.637558
178.373617   20.084518   2245.802
 0.25000   10.646856  134.461599   2.637558
178.331167   20.159492   2142.171
 0.50000   10.646856  134.475409   2.637558
178.295590   20.570281   2064.826
 0.75000   10.646856  134.489826   2.637558
178.262114   21.379813   2018.958
 1.00000   10.646856  134.506055   2.637558
178.231335   22.971292   1998.431

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -9.512035  -63.646650    -3.876455
-261.431514  -19.614056  -690.334245
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    604

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2         M3
 0.25000   -9.512035  -63.630502    -3.876455
-261.459886  -19.035520  -744.611019
 0.50000   -9.512035  -63.616309    -3.876455
-261.492699  -18.844536  -798.893572
 0.75000   -9.512035  -63.602845    -3.876455
-261.527027  -19.145256  -853.176124
 1.00000   -9.512035  -63.590380    -3.876455
-261.568276  -19.814555  -907.458676

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   20.317640  274.335559   6.527465
400.621132   74.547502   3728.289
 0.25000   20.317640  296.661337   6.527465
373.603597   71.847798   3658.823
 0.50000   20.317640  320.660401   6.527465
344.183716   70.077372   3578.732
 0.75000   20.317640  345.809269   6.527465
312.638311   69.707093   3488.600
 1.00000   20.317640  372.674165   6.527465
310.252254   70.782052   3383.360

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -20.236476 -264.276644    -5.499415
-262.976029  -25.333217  -949.009752
 0.25000  -20.236476 -237.591067    -5.499415
-262.976029  -25.316956  -1010.881
 0.50000  -20.236476 -212.921687    -5.499415
-272.536121  -27.652244  -1108.756
 0.75000  -20.236476 -189.623805    -5.499415
-303.238867  -29.431892  -1188.631
 1.00000  -20.236476 -168.177994    -5.499415
-330.689129  -31.545972  -1268.507

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   21.961497  245.544811   6.752896
357.211754   63.671361   3531.739
 0.25000   21.961497  264.140750   6.752896
334.707883   61.421169   3458.098
 0.50000   21.961497  284.135426   6.752896
310.203012   60.327569   3376.037
 0.75000   21.961497  305.077820   6.752896
283.927717   60.776152   3286.508
 1.00000   21.961497  327.454552   6.752896
281.940285   62.460235   3185.053

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -21.992180 -232.986242    -7.334772
-298.483032  -53.872718   -1020.198
 0.25000  -21.992180 -210.758872    -7.334772
-298.483032  -52.930075   -1099.624
 0.50000  -21.992180 -190.210863    -7.334772
-306.445974  -52.742885   -1179.054
 0.75000  -21.992180 -170.805224    -7.334772
-332.019389  -53.474980   -1258.483
 1.00000  -21.992180 -152.942242    -7.334772
-354.883694  -55.000339   -1337.927

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   8.213198   23.947330   1.515804
38.536711   3.286259   613.075242
 0.25000   8.213198   23.960233   1.515804
38.494181   4.769844   590.814585
 0.50000   8.213198   23.974049   1.515804
38.458541   6.333979   569.279899
 0.75000   8.213198   23.988472   1.515804
38.425004   7.956516   548.472383
 1.00000   8.213198   24.004711   1.515804
38.394165   9.627052   528.448922
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    605

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.909314  -19.576687    -4.479242
-118.697340  -53.837723  -347.772044
 0.25000   -8.909314  -19.560528    -4.479242
-118.725944  -50.684256  -366.325781
 0.50000   -8.909314  -19.546329    -4.479242
-118.758816  -48.216270  -384.879527
 0.75000   -8.909314  -19.532859    -4.479242
-118.793203  -46.501270  -403.452150
 1.00000   -8.909314  -19.520388    -4.479242
-118.834575  -45.513811  -422.096737

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.925115   56.914453   3.893125
65.266090   5.576393   1285.677
 0.25000   12.925115   56.927350   3.893125
65.223641   7.080163   1237.443
 0.50000   12.925115   56.941160   3.893125
65.188064   8.723817   1192.652
 0.75000   12.925115   56.955577   3.893125
65.154588   10.596587   1151.085
 1.00000   12.925115   56.971805   3.893125
65.123809   12.953775   1113.011

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -17.731503  -36.542203    -7.138197
-226.379975  -81.237535  -630.445985
 0.25000  -17.731503  -36.526054    -7.138197
-226.408348  -76.755097  -668.082675
 0.50000  -17.731503  -36.511862    -7.138197
-226.441161  -73.656609  -705.719603
 0.75000  -17.731503  -36.498398    -7.138197
-226.475488  -72.261672  -743.367251
 1.00000  -17.731503  -36.485933    -7.138197
-226.516738  -72.480188  -781.075861

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   13.109171  111.969830   3.421893
145.973312   10.773866   2208.166
 0.25000   13.109171  111.981438   3.421893
145.935107   12.313416   2118.135
 0.50000   13.109171  111.993866   3.421893
145.903088   14.116791   2042.822
 0.75000   13.109171  112.006841   3.421893
145.872960   16.250697   1982.043
 1.00000   13.109171  112.021447   3.421893
145.845259   18.935639   1935.574

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -15.148110  -55.792855    -6.910859
-317.942970  -71.213622  -1098.758
 0.25000  -15.148110  -55.778321    -6.910859
-317.968505  -66.612397  -937.374509
 0.50000  -15.148110  -55.765548    -6.910859
-317.998037  -63.915346  -996.540640
 0.75000  -15.148110  -55.753430    -6.910859
-318.028932  -62.442186  -1055.716
 1.00000  -15.148110  -55.742212    -6.910859
-318.066056  -62.052269  -1114.944

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   20.684160  206.987252   5.444843
344.459263   46.860706   3171.334
 0.25000   20.684160  220.100649   5.444843
307.218052   46.746754   3088.433
 0.50000   20.684160  234.170052   5.444843
279.591116   47.254247   3005.782
 0.75000   20.684160  248.881873   5.444843
256.440587   48.776069   2926.433
 1.00000   20.684160  265.030488   5.444843
231.584690   51.251976   2842.276
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    606

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -20.507883 -182.519325    -7.999291
-314.455254  -64.054139   -1003.842
 0.25000  -20.507883 -166.463930    -7.999291
-325.450768  -61.690917   -1078.275
 0.50000  -20.507883  -152.004764    -7.999291
-345.673806  -60.220867   -1152.711
 0.75000  -20.507883  -138.317775    -7.999291
-372.634120  -59.774021   -1227.155
 1.00000  -20.507883  -125.681728    -7.999291
-408.048248  -60.230316   -1301.644

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   21.408338  196.911988   8.242742
335.856569   93.819934   2285.224
 0.25000   21.408338  216.288837   8.242742
344.464512   88.185542   2284.535
 0.50000   21.408338  237.117097   8.242742
353.072426   83.743515   2250.617
 0.75000   21.408338  258.887714   8.242742
361.209541   80.122668   2183.156
 1.00000   21.408338  281.020658   8.242742
368.392989   77.186706   2083.162

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -39.446712 -217.476381    -2.556344
-130.158566  -18.539578  -814.597030
 0.25000  -39.446712 -197.175679    -2.556344
-130.158566  -21.803857  -824.301236
 0.50000  -39.446712 -177.424723    -2.556344
-130.158566  -25.084641  -833.915614
 0.75000  -39.446712 -158.764536    -2.556344
-129.687537  -28.375927  -843.584030
 1.00000  -39.446712 -141.736613    -2.556344
-128.262842  -31.686264  -853.175960

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   44.398822  317.359270  10.233874
467.343282  134.257996   3789.043
 0.25000   44.398822  340.961318  10.233874
470.656419  129.726847   3743.785
 0.50000   44.398822  366.382965  10.233874
473.969555  126.054306   3667.348
 0.75000   44.398822  392.988561  10.233874
477.282692  123.365391   3567.167
 1.00000   44.398822  420.109046  10.233874
480.585042  121.433890   3438.213

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -46.715954 -314.300872    -5.780224
-222.189214  -28.635012   -1448.601
 0.25000  -46.715954 -289.322985    -5.780224
-222.189214  -31.796069   -1463.729
 0.50000  -46.715954 -265.079356    -5.780224
-222.189214  -35.063060   -1478.779
 0.75000  -46.715954 -242.210850    -5.780224
-222.189214  -38.401537   -1493.841
 1.00000  -46.715954 -221.359794    -5.780224
-222.178628  -41.794088   -1508.878

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   40.290828  355.698849   9.802845
463.641863  123.778072   4572.624
 0.25000   40.290828  377.372383   9.802845
466.037941  119.463139   4498.886
 0.50000   40.290828  400.721115   9.802845
468.434019  116.050459   4397.850
 0.75000   40.290828  425.161723   9.802845
470.830097  113.670431   4273.642
 1.00000   40.290828  450.981673   9.802845
473.226335  112.181821   4123.739
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    607

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -44.697509 -320.429641    -5.907053
-310.375004  -34.858517   -1938.153
 0.25000  -44.697509 -297.469236    -5.907053
-310.375004  -36.694613   -1953.204
 0.50000  -44.697509 -275.188879    -5.907053
-310.375004  -39.194481   -1968.202
 0.75000  -44.697509 -254.175706    -5.907053
-310.375004  -41.899545   -1983.215
 1.00000  -44.697509 -235.018630    -5.907053
-310.375004  -44.971525   -1998.185

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   39.183463  331.588905   9.960024
410.631109  106.655340   4465.772
 0.25000   39.183463  349.654781   9.960024
412.628349  103.155566   4385.214
 0.50000   39.183463  369.117012   9.960024
414.625589  100.651874   4282.416
 0.75000   39.183463  389.489370   9.960024
416.622829   99.172511   4160.344
 1.00000   39.183463  410.261282   9.960024
418.620202   98.707498   4016.937

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -48.151450 -288.909070    -7.509328
-354.314762  -61.188925   -2068.898
 0.25000  -48.151450 -269.770528    -7.509328
-354.314762  -61.643300   -2078.924
 0.50000  -48.151450 -251.198920    -7.509328
-354.314762  -63.048273   -2088.906
 0.75000  -48.151450 -233.683401    -7.509328
-354.314762  -65.137424   -2098.923
 1.00000  -48.151450 -217.715108    -7.509328
-354.314762  -67.782279   -2108.896

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   23.228200  112.898287   1.186498
122.769145   30.897675   1569.589
 0.25000   23.228200  112.905458   1.186498
122.749601   31.938773   1510.298
 0.50000   23.228200  112.913250   1.186498
122.730869   33.179291   1459.560
 0.75000   23.228200  112.921481   1.186498
122.713429   34.660550   1425.783
 1.00000   23.228200  112.929978   1.186498
122.697758   36.333313   1403.572

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -6.406344  -67.976512    -2.998512
-135.938820  -10.198523  -722.782953
 0.25000   -6.406344  -67.968540    -2.998512
-135.953233   -9.861249  -727.475416
 0.50000   -6.406344  -67.960881    -2.998512
-135.969367   -9.641397  -732.208589
 0.75000   -6.406344  -67.953712    -2.998512
-135.986739   -9.505492  -736.941978
 1.00000   -6.406344  -67.947217    -2.998512
-136.004849   -9.436103  -741.670905

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   21.621961  178.206128   2.766262
156.660131   31.075836   2683.426
 0.25000   21.621961  178.213299   2.766262
156.640580   31.693991   2590.972
 0.50000   21.621961  178.221092   2.766262
156.621840   32.647509   2509.327
 0.75000   21.621961  178.229323   2.766262
156.604393   33.971020   2442.986
 1.00000   21.621961  178.237822   2.766262
156.588714   35.759292   2388.554
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    608

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -14.792854 -102.270072    -4.240849
```

```
-261.856112  -29.252701  -1379.579
 0.25000  -14.792854 -102.262099  -4.240849
-261.870533  -28.339111  -1384.278
 0.50000  -14.792854 -102.254439  -4.240849
-261.886674  -27.831438  -1389.015
 0.75000  -14.792854 -102.247269  -4.240849
-261.904054  -27.838800  -1393.771
 1.00000  -14.792854 -102.240774  -4.240849
-261.922174  -28.181881  -1398.499

  COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   35.899384  311.147942   7.393406
406.217453   93.289137   4167.296
 0.25000   35.899384  330.159843   7.393406
371.591940   91.566120   4097.484
 0.50000   35.899384  350.722176   7.393406
337.595953   90.326092   4002.702
 0.75000   35.899384  372.348300   7.393406
306.115270   89.704520   3885.317
 1.00000   35.899384  394.536660   7.393406
298.712196   89.774082   3744.541

  COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -33.743133 -276.609761  -6.085191
-277.129523  -39.291261  -1888.771
 0.25000  -33.743133 -255.962936  -6.085191
-277.326997  -39.893893  -1900.303
 0.50000  -33.743133 -236.039011  -6.085191
-298.624253  -40.865241  -1911.906
 0.75000  -33.743133 -217.326379  -6.085191
-327.007213  -42.305493  -1923.461
 1.00000  -33.743133 -200.315443  -6.085191
-356.228698  -44.066855  -1935.028

  COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   37.484979  290.991474   7.357755
367.536692   80.874569   4090.835
 0.25000   37.484979  306.829760   7.357755
338.691140   79.740841   4015.258
 0.50000   37.484979  323.959668   7.357755
310.370028   79.470639   3919.147
 0.75000   37.484979  341.975790   7.357755
284.144347   79.976938   3804.329
 1.00000   37.484979  360.460296   7.357755
277.977052   81.203434   3669.994

  COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -35.669876 -252.157744  -8.212194
-327.688076  -70.002114  -2037.875
 0.25000  -35.669876 -234.957448  -8.212194
-327.852586  -68.374911  -2043.567
 0.50000  -35.669876 -218.359381  -8.212194
-345.594738  -67.585213  -2049.339
 0.75000  -35.669876 -202.710407  -8.212194
-369.239792  -67.508069  -2055.076
 1.00000  -35.669876 -188.599070  -8.212194
-393.583398  -68.050447  -2060.818

  COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   15.757423   45.599951   1.512156
48.728229    5.942407   904.118633
 0.25000   15.757423   45.607124   1.512156
48.708653    7.757708   879.496084
 0.50000   15.757423   45.614919   1.512156
48.689890    9.844750   855.023803
 0.75000   15.757423   45.623153   1.512156
48.672421   12.036705   830.890571
 1.00000   15.757423   45.631654   1.512156
48.656722   14.448487   806.758909
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    609

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -11.115398  -33.007857   -5.590958
-147.678758  -41.687102  -709.638167
 0.25000  -11.115398  -32.999882   -5.590958
-147.793200  -58.003107  -702.900869
 0.50000  -11.115398  -32.992219   -5.590958
-147.809365  -54.862754  -696.194964
 0.75000  -11.115398  -32.985048   -5.590958
-147.826771  -52.159300  -689.500456
 1.00000  -11.115398  -32.978550   -5.590958
-147.844917  -49.942474  -682.802047

  COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   20.218810   97.076281   4.104961
79.391469   11.042415   1801.634
 0.25000   20.218810   97.083448   4.104961
79.371958   12.983531   1749.878
 0.50000   20.218810   97.091238   4.104961
79.353257   15.379675   1699.705
 0.75000   20.218810   97.099466   4.104961
79.335846   18.282049   1650.336
 1.00000   20.218810   97.107960   4.104961
79.320201   21.335387   1601.449

  COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -25.582174  -62.406982   -8.224973
-265.488633  -93.530910   -1277.419
 0.25000  -25.582174  -62.399014   -8.224973
-265.503017  -89.263886   -1271.820
 0.50000  -25.582174  -62.391358   -8.224973
-265.519119  -84.876317   -1266.396
 0.75000  -25.582174  -62.384192   -8.224973
-265.536457  -84.188827   -1260.869
 1.00000  -25.582174  -62.377699   -8.224973
-265.554533  -83.191714   -1255.332

  COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   25.582226  168.048736   3.446671
140.832626   20.630103   2872.661
 0.25000   25.582226  168.126156   3.446671
140.621822   22.526847   2785.424
 0.50000   25.582226  168.210293   3.446671
140.419762   24.970924   2702.656
 0.75000   25.582226  168.299156   3.446671
140.231646   27.766458   2624.899
 1.00000   25.582226  168.390902   3.446671
140.062611   31.139613   2552.408

  COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -22.126771  -99.763506   -8.112606
-345.840355  -85.814842   -1767.925
 0.25000  -22.126771  -99.677439   -8.112606
-345.995774  -81.401025   -1763.455
 0.50000  -22.126771  -99.594743   -8.112606
-346.169764  -77.923409   -1759.022
 0.75000  -22.126771  -99.517345   -8.112606
-346.357109  -75.317416   -1754.769
 1.00000  -22.126771  -99.447221   -8.112606
-346.552418  -73.481105   -1750.376

  COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   39.804524  257.414193   5.811488
337.036929   63.065159   3775.383
 0.25000   39.804524  268.859429   5.811488
310.437395   64.125706   3694.083
 0.50000   39.804524  281.268455   5.811488
284.819713   65.830510   3600.090
 0.75000   39.804524  294.357119   5.811488
261.026343   67.969968   3495.849
 1.00000   39.804524  307.829834   5.811488
239.821010   70.788050   3380.110
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    610

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -30.527313 -211.637194   -9.300942
-347.004675  -81.112955   -2010.891
 0.25000  -30.527313 -199.051059   -9.300942
-365.695253  -77.938632   -2012.689
 0.50000  -30.527313 -186.928764   -9.300942
-386.856613  -75.597595   -2014.546
 0.75000  -30.527313 -175.565599   -9.300942
-409.755068  -74.035796   -2016.391
 1.00000  -30.527313 -165.255680   -9.300942
-433.504456  -73.157950   -2018.232

  COMB     DB ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   28.810979  324.688000   8.487696
468.614396  114.014466   4186.425
 0.25000   28.810979  351.232840   8.487696
468.614396  108.589984   4116.847
 0.50000   28.810979  379.884360   8.487696
468.614396  104.708893   4033.785
 0.75000   28.810979  409.983698   8.487696
468.614396  102.505112   3938.666
 1.00000   28.810979  440.586496   8.487696
468.614396  102.045809   3825.728

  COMB     DB ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -25.128638 -336.410503   -7.999291
-317.942970  -81.237535   -1039.376
 0.25000  -25.128638 -303.426366   -7.999291
-325.450768  -76.755097   -1124.456
 0.50000  -25.128638 -271.349128   -7.999291
-345.673806  -73.656609   -1209.541
 0.75000  -25.128638 -241.187183   -7.999291
-372.634120  -72.261672   -1294.627
 1.00000  -25.128638 -213.575561   -7.999291
-408.048248  -72.480188   -1379.712

  COMB     DL ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   44.398822  355.698849   10.233874
467.343282  134.257996   4572.624
 0.25000   44.398822  377.372383   10.233874
470.656419  129.728847   4498.886
 0.50000   44.398822  400.721115   10.233874
473.969555  126.054306   4397.850
 0.75000   44.398822  425.161723   10.233874
477.282692  123.365391   4273.642
 1.00000   44.398822  450.081673   10.233874
480.585042  121.433890   4123.739

  COMB     DL ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -48.151450 -320.429641   -9.300942
-354.314762  -93.530910   -2068.898
 0.25000  -48.151450 -297.469236   -9.300942
-365.695253  -89.263886   -2078.924
 0.50000  -48.151450 -275.188979   -9.300942
-386.856613  -86.076317   -2088.906
 0.75000  -48.151450 -254.175706   -9.300942
-409.755068  -84.188827   -2098.923
 1.00000  -48.151450 -235.018630   -9.300942
-433.504456  -83.191714   -2108.896

  COMB     CAR ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   44.398822  355.698849   10.233874
468.614396  134.257996   4572.624
 0.25000   44.398822  377.372383   10.233874
470.656419  129.728847   4498.886
 0.50000   44.398822  400.721115   10.233874
473.969555  126.054306   4397.850
 0.75000   44.398822  425.161723   10.233874
477.282692  123.365391   4273.642
 1.00000   44.398822  450.081673   10.233874
480.585042  121.433890   4123.739

  COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -48.151450 -336.410503   -9.300942
-354.314762  -93.530910   -2068.898
 0.25000  -48.151450 -303.426366   -9.300942
-365.695253  -89.263886   -2078.924
 0.50000  -48.151450 -275.188979   -9.300942
-386.856613  -86.076317   -2088.906
 0.75000  -48.151450 -254.175706   -9.300942
-409.755068  -84.188827   -2098.923
 1.00000  -48.151450 -235.018630   -9.300942
-433.504456  -83.191714   -2108.896

  COMB  DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   44.398822  355.698849   10.233874
468.614396  134.257996   4572.624
 0.25000   44.398822  377.372383   10.233874
470.656419  129.728847   4498.886
 0.50000   44.398822  400.721115   10.233874
473.969555  126.054306   4397.850
 0.75000   44.398822  425.161723   10.233874
477.282692  123.365391   4273.642
 1.00000   44.398822  450.081673   10.233874
480.585042  121.433890   4123.739

  COMB  DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -48.151450 -336.410503   -9.300942
-354.314762  -93.530910   -2068.898
 0.25000  -48.151450 -303.426366   -9.300942
-365.695253  -89.263886   -2078.924
 0.50000  -48.151450 -275.188979   -9.300942
-386.856613  -86.076317   -2088.906
 0.75000  -48.151450 -254.175706   -9.300942
-409.755068  -84.188827   -2098.923
 1.00000  -48.151450 -235.018630   -9.300942
-433.504456  -83.191714   -2108.896

ELEM      28 ========== LENGTH
=    4.987103

  COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   15.965957  231.128719   8.139899
457.423420   69.339048   2081.507
 0.25000   15.965957  254.040540   8.139899
457.423420   61.848160   2048.741
 0.50000   15.965957  278.697999   8.139899
457.423420   55.524947   1987.456
 0.75000   15.965957  304.526157   8.139899
457.423420   50.163118   1893.981
 1.00000   15.965957  330.011709   8.139899
457.423420   46.040318   1768.263

  COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -16.180370 -213.224261   -0.431304
-52.468531  -21.959129  -571.445626
 0.25000  -16.180370 -188.032894   -0.431304
-52.468531  -25.946953  -620.712599
 0.50000  -16.180370 -162.912850   -0.431304
-52.468531  -29.936196  -669.979826
 0.75000  -16.180370 -139.338681   -0.431304
-52.468531  -33.928210  -719.247051
 1.00000  -16.180370 -117.801308   -0.431304
-52.468531  -37.921131  -768.564077

  COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   28.124763  359.279106   10.239148
586.511468  100.389190   3363.860
 0.25000   28.124763  388.163340   10.239148
586.511468   93.316542   3251.602
 0.50000   28.124763  419.118317   10.239148
586.511468   89.537277   3122.505
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    612

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2         M3
 0.75000   28.124763  451.465082   10.239148
586.511468   87.608265   2976.675
 1.00000   28.124763  484.219647   10.239148
586.511468   87.228797   2806.245

  COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -22.565047 -287.832823   -3.962710
-144.368209  -29.170373   -1006.043
 0.25000  -22.565047 -255.385905   -3.962710
-144.368209  -33.588183   -1087.725
 0.50000  -22.565047 -223.837878   -3.962710
-144.368209  -38.038797   -1169.409
 0.75000  -22.565047 -194.212319   -3.962710
-144.368209  -42.549389   -1251.094
 1.00000  -22.565047 -167.089191   -3.962710
-144.368209  -47.071169   -1332.851

  COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   24.107089  388.561993   9.433080
538.525935   91.384840   3824.987
 0.25000   24.107089  415.082259   9.433080
538.525935   84.415431   3663.492
 0.50000   24.107089  443.496613   9.433080
538.525935   80.100233   3487.934
 0.75000   24.107089  473.182823   9.433080
538.525935   77.598534   3301.610
 1.00000   24.107089  503.305892   9.433080
538.525935   76.774264   3099.467

  COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -21.516206 -277.543037   -3.963084
-268.713840  -28.841644   -1307.212
 0.25000  -21.516206 -247.691626   -3.963084
-268.713840  -32.475564   -1403.550
 0.50000  -21.516206 -218.737594   -3.963084
-268.713840  -36.151996   -1499.888
 0.75000  -21.516206 -191.536273   -3.963084
-268.713840  -39.865163   -1596.226
 1.00000  -21.516206 -166.634882   -3.963084
-268.713840  -43.600775   -1692.631

  COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   24.583585  355.288746   9.782912
469.389713   78.551303   3602.719
 0.25000   24.583585  377.399614   9.782912
469.389713   73.608617   3434.594
 0.50000   24.583585  401.089434   9.782912
469.389713   70.923317   3255.779
 0.75000   24.583585  425.838829   9.782912
469.389713   69.840110   3069.219
 1.00000   24.583585  450.955577   9.782912
469.389713   70.253119   2870.614

  COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -24.196975 -244.773705   -6.214974
-352.685178  -51.343369   -1379.710
 0.25000  -24.196975 -219.883915   -6.214974
-352.685178  -52.799115   -1470.132
 0.50000  -24.196975 -195.739972   -6.214974
-352.685178  -55.111527   -1560.603
 0.75000  -24.196975 -173.065592   -6.214974
-352.685178  -58.901414   -1651.074
 1.00000  -24.196975 -152.304493   -6.214974
-352.685178  -63.205677   -1741.603

  COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   11.048544  114.590702   1.103863
119.826172   21.969041   1263.222
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    613

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2         M3
 0.25000   11.048544  114.603660   1.103863
119.783320   23.798934   1156.301
 0.50000   11.048544  114.617366   1.103863
119.747148   27.345363   1073.839
 0.75000   11.048544  114.631537   1.103863
119.713253   31.312015   1018.517
 1.00000   11.048544  114.647447   1.103863
119.682139   35.397107   983.631571

  COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.574531  -33.594706   -3.466804
-137.045894   -6.098195 -491.709435
 0.25000   -4.574531  -33.578807   -3.466804
-137.068700   -6.200758  -525.461574
 0.50000   -4.574531  -33.564823   -3.466804
-137.097550   -6.353769  -559.220810
 0.75000   -4.574531  -33.551650   -3.466804
-137.131910   -6.526284  -592.985309
 1.00000   -4.574531  -33.539529   -3.466804
-137.172202   -6.717234  -626.749856

  COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   10.607452  173.959420   2.723434
126.929755   22.251763   1998.919
 0.25000   10.607452  173.972379   2.723434
126.886903   23.041302   1832.862
 0.50000   10.607452  173.986285   2.723434
126.850731   25.575197   1691.594
 0.75000   10.607452  174.000255   2.723434
126.816835   28.842982   1582.733
 1.00000   10.607452  174.016166   2.723434
126.785721   32.693816   1500.859

  COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -9.276713  -51.561268   -4.763635
-301.002004  -19.735972  -907.443604
 0.25000   -9.276713  -51.545366   -4.763635
-301.024810  -19.157056  -961.686950
 0.50000   -9.276713  -51.531384   -4.763635
-301.053660  -19.174487   -1016.290
 0.75000   -9.276713  -51.518211   -4.763635
-301.088020  -20.464707   -1070.714
 1.00000   -9.276713  -51.506090   -4.763635
-301.128312  -21.940368   -1125.137

  COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   19.822833  333.975632   7.536687
424.869860   69.307859   3383.346
 0.25000   19.822833  356.341175   7.536687
397.132365   65.849125   3225.714
 0.50000   19.822833  380.156439   7.536687
367.214798   64.351020   3056.660
 0.75000   19.822833  404.913481   7.536687
338.103330   64.633429   2879.369
 1.00000   19.822833  431.307119   7.536687
338.103330   66.465975   2688.990

  COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -19.501278  -230.280426   -5.780236
-302.767508  -31.355121   -1268.508
 0.25000  -19.501278  -204.014926   -5.780236
-302.767508  -32.935657   -1355.267
 0.50000  -19.501278  -179.731164   -5.780236
-302.767508  -35.052753   -1442.027
 0.75000  -19.501278  -156.881570   -5.780236
-302.767508  -38.319425   -1528.787
 1.00000  -19.501278  -135.929207   -5.780236
-326.200797  -41.754480   -1615.618
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    614

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   21.448773  304.632142   7.034234
378.559604   61.228228   3185.466
 0.25000   21.448773  323.261202   7.034234
355.456053   59.570519   3025.163
 0.50000   21.448773  343.097787   7.034234
330.536642   59.604020   2855.720
 0.75000   21.448773  363.718813   7.034234
306.288660   61.135738   2680.230
 1.00000   21.448773  385.703017   7.034234
306.288660   63.949496   2495.004

  COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -21.201099 -205.076372   -8.224427
-379.453232  -54.822459   -1337.922
 0.25000   -21.201099 -183.198897   -8.224427
-379.453232  -53.592303   -1417.823
 0.50000   -21.201099 -162.972084   -8.224427
-379.453232  -53.285492   -1497.762
 0.75000   -21.201099 -143.947753   -8.224427
-379.453232  -54.444182   -1577.701
 1.00000   -21.201099 -126.487868   -8.224427
-398.971656  -56.349921   -1657.737

  COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   8.044177  37.346519   0.285698
41.100291   9.612423  529.112649
 0.25000   8.044177  37.359483   0.285698
41.057360  11.843836  487.936010
 0.50000   8.044177  37.373195   0.285698
41.021127  14.187454  447.586869
 0.75000   8.044177  37.387371   0.285698
40.987171  16.602486  408.413324
 1.00000   8.044177  37.403292   0.285698
40.955999  19.074038  370.397618

  COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.657092  -20.116588   -5.698249
-193.260982  -45.455765  -422.094740
 0.25000   -8.657092  -20.100678   -5.698249
-193.283832  -40.535999  -431.818495
 0.50000   -8.657092  -20.086688   -5.698249
-193.312962  -36.430321  -441.542249
 0.75000   -8.657092  -20.073509   -5.698249
-193.347381  -33.051993  -451.401399
 1.00000   -8.657092  -20.061382   -5.698249
-193.387746  -30.353792  -461.315884

  COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.662604  84.190865   3.289816
61.127381  13.046409   1114.104
 0.25000   12.662604  84.203824   3.289816
61.084529  15.905784   1025.330
 0.50000   12.662604  84.217530   3.289816
61.048357  19.058623   939.780051
 0.75000   12.662604  84.231700   3.289816
61.014462  22.471407   858.412212
 1.00000   12.662604  84.247611   3.289816
60.983347  26.201205   781.286591

  COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -17.465896  -36.940879   -8.660361
-344.921173  -72.515511   -781.055905
 0.25000  -17.465896  -36.924979   -8.660361
-344.943979  -66.552782   -806.500081
 0.50000  -17.465896  -36.910996   -8.660361
-344.972828  -63.368463   -831.944256
 0.75000  -17.465896  -36.897822   -8.660361
-345.007189  -62.708726   -857.470671
 1.00000  -17.465896  -36.885701   -8.660361
-345.047480  -63.108426   -883.125098
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.887961	154.774390	2.161496
101.521751	18.422439	1936.723	
0.25000	12.887961	154.786053	2.161496
101.483184	21.106393	1761.087	
0.50000	12.887961	154.798388	2.161496
101.450630	24.227611	1638.173	
0.75000	12.887961	154.811142	2.161496
101.420123	27.783104	1511.368	
1.00000	12.887961	154.825461	2.161496
101.392121	31.823602	1400.366	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.793246	-51.810234	-8.465282
-434.810766	-61.948420	-1114.923	
0.25000	-14.793246	-51.795924	-8.465282
-434.831291	-56.493199	-1164.096	
0.50000	-14.793246	-51.783339	-8.465282
-434.857256	-52.283609	-1213.268	
0.75000	-14.793246	-51.771483	-8.465282
-434.888180	-49.965698	-1262.509	
1.00000	-14.793246	-51.760574	-8.465282
-434.924442	-48.604341	-1311.873	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.278624	261.948551	4.873978
338.505923	50.268129	2843.059	
0.25000	20.278624	275.105089	4.873978
300.857870	50.891346	2678.558	
0.50000	20.278624	289.066173	4.873978
275.563908	53.223000	2513.600	
0.75000	20.278624	303.539030	4.873978
252.434199	56.926578	2352.442	
1.00000	20.278624	319.386953	4.873978
227.643626	61.654353	2190.537	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.826016	-160.750851	-9.827404
-409.474463	-60.061940	-1301.638	
0.25000	-19.826016	-144.945164	-9.827404
-409.474463	-56.553871	-1372.385	
0.50000	-19.826016	-130.705283	-9.827404
-426.328660	-54.089780	-1443.133	
0.75000	-19.826016	-117.376871	-9.827404
-446.181315	-53.199500	-1513.936	
1.00000	-19.826016	-104.982581	-9.827404
-474.800461	-53.105025	-1584.889	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.602066	237.849829	11.343799
474.933313	75.721384	2081.887	
0.25000	20.602066	258.170702	11.343799
483.539899	67.488655	2024.116	
0.50000	20.602066	279.874052	11.343799
492.146818	59.784063	1933.363	
0.75000	20.602066	302.458085	11.343799
500.753071	53.778294	1808.835	
1.00000	20.602066	325.439775	11.343799
509.359658	49.125265	1652.207	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-38.506587	-189.693663	-0.894515
-85.572983	-30.712217	-853.039518	
0.25000	-38.506587	-170.668305	-0.894515
-85.572983	-36.321777	-875.326109	
0.50000	-38.506587	-152.214320	-0.894515
-85.572983	-42.323268	-897.302443	
0.75000	-38.506587	-134.891916	-0.894515
-85.572983	-48.904689	-919.607662	
1.00000	-38.506587	-119.122056	-0.894515
-85.572983	-56.239505	-942.649232	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	43.369227	386.459471	13.450304
616.621401	118.934173	3436.805	
0.25000	43.369227	411.201313	13.450304
619.933938	112.110596	3294.166	
0.50000	43.369227	437.622463	13.450304
623.246475	107.523453	3118.937	
0.75000	43.369227	465.142123	13.450304
626.559012	104.336552	2920.212	
1.00000	43.369227	493.193977	13.450304
629.871549	102.775007	2693.260	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-45.281964	-269.463827	-4.953490
-185.564560	-40.241150	-1508.666	
0.25000	-45.281964	-245.958938	-4.953490
-185.564560	-45.792623	-1541.323	
0.50000	-45.281964	-223.251069	-4.953490
-185.564560	-51.801179	-1573.958	
0.75000	-45.281964	-201.988854	-4.953490
-185.564560	-58.491376	-1606.742	
1.00000	-45.281964	-182.659146	-4.953490
-185.564560	-66.067936	-1639.985	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	39.280521	440.564152	12.485010
566.006175	109.599772	4122.900	
0.25000	39.280521	463.282123	12.485010
568.401819	102.796281	3925.866	
0.50000	39.280521	487.544232	12.485010
570.797464	98.012445	3699.499	
0.75000	39.280521	512.817439	12.485010
573.193108	94.833548	3450.432	
1.00000	39.280521	538.583074	12.485010
575.588752	93.321088	3175.866	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-43.247756	-273.884401	-5.308747
-316.613721	-43.837559	-1997.976	
0.25000	-43.247756	-252.270288	-5.308747
-316.613721	-47.401613	-2027.672	
0.50000	-43.247756	-231.396372	-5.308747
-316.613721	-51.936723	-2057.309	
0.75000	-43.247756	-211.856104	-5.308747
-316.613721	-57.330533	-2087.108	
1.00000	-43.247756	-194.096067	-5.308747
-316.613721	-63.717562	-2117.278	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	38.265898	414.342566	12.156977
498.878865	96.679929	4016.733	
0.25000	38.265898	433.279029	12.156977
500.875744	92.026408	3813.881	
0.50000	38.265898	453.502600	12.156977
502.872623	89.280092	3586.946	
0.75000	38.265898	474.568969	12.156977
504.869501	88.073239	3341.672	
1.00000	38.265898	496.045796	12.156977
506.866380	88.636852	3075.594	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-46.808403	-249.504364	-7.655301
-416.453526	-67.075921	-2108.784	
0.25000	-46.808403	-231.488017	-7.655301
-416.453526	-68.792346	-2125.794	
0.50000	-46.808403	-214.088658	-7.655301
-416.453526	-71.739693	-2142.797	
0.75000	-46.808403	-197.800956	-7.655301
-416.453526	-76.147753	-2159.934	
1.00000	-46.808403	-182.997158	-7.655301
-416.453526	-81.880206	-2177.415	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.117085	142.943948	1.176377
99.784835	35.489942	1403.670	
0.25000	23.117085	142.951425	1.176377
99.764486	38.404793	1300.596	
0.50000	23.117085	142.959448	1.176377
99.745266	42.297210	1203.497	
0.75000	23.117085	142.967842	1.176377
99.727583	46.244295	1122.760	
1.00000	23.117085	142.976460	1.176377
99.711797	50.255484	1054.420	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.983027	-51.840637	-4.168794
-142.216272	-9.038979	-741.609306	
0.25000	-5.983027	-51.833000	-4.168794
-142.230481	-8.681646	-749.600070	
0.50000	-5.983027	-51.825743	-4.168794
-142.246137	-8.394554	-757.607535	
0.75000	-5.983027	-51.819048	-4.168794
-142.262764	-8.167029	-765.597541	
1.00000	-5.983027	-51.812997	-4.168794
-142.279922	-8.009789	-773.578887	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.415247	230.260820	2.725611
109.026727	34.764811	2389.232	
0.25000	21.415247	230.268298	2.725611
109.006370	36.196198	2218.193	
0.50000	21.415247	230.276322	2.725611
108.987143	38.920437	2054.948	
0.75000	21.415247	230.284717	2.725611
108.969453	42.111362	1907.996	
1.00000	21.415247	230.293335	2.725611
108.953661	45.844100	1773.227	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.281418	-82.859559	-5.436093
-324.521317	-28.028891	-1398.445	
0.25000	-14.281418	-82.851921	-5.436093
-324.535535	-26.561011	-1403.266	
0.50000	-14.281418	-82.844663	-5.436093
-324.551199	-25.693877	-1408.065	
0.75000	-14.281418	-82.837951	-5.436093
-324.567835	-25.715961	-1412.873	
1.00000	-14.281418	-82.831916	-5.436093
-324.585002	-26.279562	-1417.721	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	35.116814	389.272621	8.853854
460.537071	87.380645	3744.416	
0.25000	35.116814	409.139682	8.853854
425.166276	84.612490	3559.700	
0.50000	35.116814	430.406212	8.853854
389.139997	83.268024	3347.691	
0.75000	35.116814	452.613834	8.853854
357.064942	83.070993	3113.862	
1.00000	35.116814	475.326975	8.853854
349.365858	84.072882	2856.606	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-32.563267	-237.577658	-6.481515
-341.589414	-42.957187	-1934.875	
0.25000	-32.563267	-217.973386	-6.481515
-341.574667	-44.078881	-1955.451	
0.50000	-32.563267	-199.202246	-6.481515
-341.741414	-45.989958	-1976.032	
0.75000	-32.563267	-181.741277	-6.481515
-362.277574	-49.114705	-1996.681	
1.00000	-32.563267	-165.946576	-6.481515
-388.761532	-53.102737	-2017.230	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	36.735522	365.808985	8.061638
420.640017	79.269888	3670.412	
0.25000	36.735522	382.359681	8.061638
391.173592	78.612520	3481.807	
0.50000	36.735522	400.076236	8.061638
361.161101	79.318100	3270.678	
0.75000	36.735522	418.576788	8.061638
334.440265	81.190123	3041.705	
1.00000	36.735522	437.498474	8.061638
328.026372	84.434003	2793.482	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.490227	-219.489259	-9.625611
-441.996364	-67.380292	-2060.791	
0.25000	-34.490227	-203.157485	-9.625611
-441.984080	-65.361990	-2067.150	
0.50000	-34.490227	-187.519771	-9.625611
-442.122991	-64.353711	-2073.545	
0.75000	-34.490227	-172.973523	-9.625611
-459.229596	-64.723676	-2080.003	
1.00000	-34.490227	-159.815397	-9.625611
-481.294144	-66.448646	-2086.416	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.594410	58.074177	0.490961
65.490216	14.467958	807.556801	
0.25000	15.594410	58.081596	0.490961
65.469835	17.814594	758.928314	
0.50000	15.594410	58.089622	0.490961
65.450587	21.587723	710.414318	
0.75000	15.594410	58.098019	0.490961
65.432877	25.875986	662.378686	
1.00000	15.594410	58.106640	0.490961
65.417067	30.759573	614.514912	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.805644	-32.938908	-7.757226
-240.911345	-50.283838	-682.982502	
0.25000	-10.805644	-32.931267	-7.757226
-240.925586	-44.432416	-664.492458	
0.50000	-10.805644	-32.924007	-7.757226
-240.941274	-39.265092	-646.001813	
0.75000	-10.805644	-32.917293	-7.757226
-240.957936	-34.911509	-627.816430	
1.00000	-10.805644	-32.911256	-7.757226
-240.975130	-31.446298	-609.403290	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.988142	127.194999	3.402019
88.694819	21.466807	1602.796	
0.25000	19.988142	127.202474	3.402019
88.674501	25.436975	1498.900	
0.50000	19.988142	127.210495	3.402019
88.655310	30.160185	1396.394	
0.75000	19.988142	127.218886	3.402019
88.637653	35.667563	1296.222	
1.00000	19.988142	127.227500	3.402019
88.621892	42.041776	1196.876	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.171642	-60.144771	-10.749863
-419.314025	-83.800490	-1255.544	
0.25000	-25.171642	-60.137137	-10.749863
-419.328197	-77.563282	-1233.895	
0.50000	-25.171642	-60.129883	-10.749863
-419.343819	-73.088462	-1212.259	
0.75000	-25.171642	-60.123175	-10.749863
-419.360413	-70.460585	-1190.628	
1.00000	-25.171642	-60.117143	-10.749863
-419.377535	-69.707508	-1169.079	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.310048	219.227225	2.351969
117.041205	30.553108	2553.878	
0.25000	25.310048	219.307955	2.351969
116.821687	34.638014	2383.980	
0.50000	25.310048	219.394588	2.351969
116.614351	39.583693	2215.970	
0.75000	25.310048	219.485218	2.351969
116.423586	45.338740	2053.727	
1.00000	25.310048	219.578266	2.351969
116.253299	52.003387	1897.182	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.510840	-87.343527	-10.847515
-502.072845	-73.834001	-1750.530	
0.25000	-21.510840	-87.261077	-10.847515
-502.225985	-67.033953	-1732.804	
0.50000	-21.510840	-87.182728	-10.847515
-502.394797	-61.534147	-1715.093	
0.75000	-21.510840	-87.110264	-10.847515
-502.574098	-57.619619	-1697.388	
1.00000	-21.510840	-87.045117	-10.847515
-502.759119	-54.923584	-1679.786	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	39.240152	325.136571	5.565471
360.959622	69.216421	3380.968	
0.25000	39.240152	337.083676	5.565471
332.830855	71.677097	3195.156	
0.50000	39.240152	349.891723	5.565471
306.107224	75.698797	2994.145	
0.75000	39.240152	363.276892	5.565471
281.517160	80.690687	2783.917	
1.00000	39.240152	376.998266	5.565471
259.648153	87.009032	2562.387	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.491380	-184.705681	-11.914598
-475.996233	-72.604953	-2018.286	
0.25000	-29.491380	-172.690741	-11.914598
-486.105817	-67.979411	-2028.916	
0.50000	-29.491380	-161.235493	-11.914598
-506.238685	-64.441384	-2032.109	
0.75000	-29.491380	-150.611386	-11.914598
-527.747697	-62.425713	-2066.071	
1.00000	-29.491380	-141.040948	-11.914598
-549.933922	-61.679245	-2071.223	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	28.124763	388.561993	10.239148
586.511468	100.389190	3824.987	
0.25000	28.124763	415.082259	10.239148
586.511468	93.316542	3663.492	
0.50000	28.124763	443.496613	10.239148
586.511468	89.537277	3487.934	
0.75000	28.124763	473.128685	10.239148
586.511468	87.608265	3301.610	
1.00000	28.124763	503.305892	10.239148
586.511468	87.228797	3099.467	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.196975	-287.838323	-9.827404
-434.810766	-72.515511	-1379.710	
0.25000	-24.196975	-255.385905	-9.827404
-434.831291	-66.552782	-1470.132	
0.50000	-24.196975	-223.837878	-9.827404
-434.857256	-63.368463	-1560.603	
0.75000	-24.196975	-194.212319	-9.827404
-446.181315	-62.708726	-1651.074	
1.00000	-24.196975	-167.089191	-9.827404
-474.800461	-63.205677	-1741.603	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	43.369227	440.564152	13.450304
616.621401	118.934173	4122.900	
0.25000	43.369227	463.282123	13.450304
619.933938	112.110596	3925.866	
0.50000	43.369227	487.544232	13.450304
623.246475	107.523453	3699.499	
0.75000	43.369227	512.817439	13.450304
626.559012	104.336552	3450.432	
1.00000	43.369227	538.583074	13.450304
629.871549	102.775007	3175.866	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-46.808403	-273.884401	-11.914598
-502.072845	-83.800490	-2108.784	
0.25000	-46.808403	-252.270288	-11.914598
-502.225985	-77.563282	-2125.794	
0.50000	-46.808403	-231.396372	-11.914598
-506.238685	-73.088462	-2142.797	
0.75000	-46.808403	-211.856104	-11.914598
-527.747697	-76.147753	-2159.934	
1.00000	-46.808403	-194.096067	-11.914598
-549.933922	-81.880206	-2177.415	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	43.369227	440.564152	13.450304
616.621401	118.934173	4122.900	
0.25000	43.369227	463.282123	13.450304
619.933938	112.110596	3925.866	
0.50000	43.369227	487.544232	13.450304
623.246475	107.523453	3699.499	
0.75000	43.369227	512.817439	13.450304
626.559012	104.336552	3450.432	
1.00000	43.369227	538.583074	13.450304
629.871549	102.775007	3175.866	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-46.808403	-287.838323	-11.914598
-502.072845	-83.800490	-2108.784	
0.25000	-46.808403	-255.385905	-11.914598
-502.225985	-77.563282	-2125.794	
0.50000	-46.808403	-231.396372	-11.914598
-506.238685	-73.088462	-2142.797	
0.75000	-46.808403	-211.856104	-11.914598
-527.747697	-76.147753	-2159.934	
1.00000	-46.808403	-194.096067	-11.914598
-549.933922	-81.880206	-2177.415	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	43.369227	440.564152	13.450304
616.621401	118.934173	4122.900	
0.25000	43.369227	463.282123	13.450304
619.933938	112.110596	3925.866	
0.50000	43.369227	487.544232	13.450304
623.246475	107.523453	3699.499	
0.75000	43.369227	512.817439	13.450304
626.559012	104.336552	3450.432	
1.00000	43.369227	538.583074	13.450304
629.871549	102.775007	3175.866	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-46.808403	-287.838323	-11.914598
-502.072845	-83.800490	-2108.784	
0.25000	-46.808403	-255.385905	-11.914598
-502.225985	-77.563282	-2125.794	
0.50000	-46.808403	-231.396372	-11.914598
-506.238685	-73.088462	-2142.797	
0.75000	-46.808403	-211.856104	-11.914598
-527.747697	-76.147753	-2159.934	
1.00000	-46.808403	-194.096067	-11.914598
-549.933922	-81.880206	-2177.415	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 29 ========== LENGTH = 4.988326

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.336661	273.678656	7.921451
539.383171	44.885658	1766.667	
0.25000	15.336661	297.005024	7.921451
539.383171	37.249490	1677.387	
0.50000	15.336661	321.846495	7.921451
539.383171	30.680119	1557.951	
0.75000	15.336661	347.647161	7.921451
539.383171	25.039748	1405.575	
1.00000	15.336661	372.913114	7.921451
539.383171	20.340093	1220.972	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.415847	-179.894098	-0.309146
-77.848526	-37.630742	-768.351160	
0.25000	-15.415847	-146.175323	-0.309146
-77.848526	-40.953352	-836.574342	
0.50000	-15.415847	-121.670099	-0.309146
-77.848526	-44.279264	-904.797713	
0.75000	-15.415847	-98.787534	-0.309146
-77.848526	-47.618277	-973.158950	
1.00000	-15.415847	-77.934110	-0.309146
-77.848526	-50.957650	-1041.839	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.441034	425.605236	10.353683
654.008273	85.948863	2804.691	
0.25000	27.441034	454.861683	10.353683
654.008273	78.257013	2603.505	
0.50000	27.441034	485.950752	10.353683
654.008273	71.723055	2382.852	
0.75000	27.441034	518.214542	10.353683
654.008273	66.380329	2146.147	
1.00000	27.441034	550.630250	10.353683
654.008273	62.309289	1887.126	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.403564	-228.288633	-1.009325
-178.537088	-46.580373	-1332.574	
0.25000	-21.403564	-196.507898	-1.009325
-178.537088	-50.851867	-1438.477	
0.50000	-21.403564	-165.765393	-1.009325
-178.537088	-55.128964	-1544.388	
0.75000	-21.403564	-136.999944	-1.009325
-178.537088	-59.416192	-1650.414	
1.00000	-21.403564	-110.690967	-1.009325
-178.537088	-63.718145	-1756.816	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.392357	462.962841	9.307737

569.110938 74.789792 3098.565
0.25000 23.392357 489.813748 9.307737
569.110938 67.668604 2838.052
0.50000 23.392357 518.343976 9.307737
569.110938 61.762658 2561.813
0.75000 23.392357 547.949682 9.307737
569.110938 57.154543 2276.249
1.00000 23.392357 577.757735 9.307737
569.110938 53.980493 1978.896

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.487793	-225.477149	-1.945083
-324.239251	-42.968788	-1692.395	
0.25000	-20.487793	-196.248150	-1.945083
-324.239251	-46.581879	-1806.941	
0.50000	-20.487793	-168.031018	-1.945083
-324.239251	-50.206628	-1921.488	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-20.487793	-141.623610	-1.945083
-324.239251	-53.848086	-2036.134	
1.00000	-20.487793	-117.466189	-1.945083
-324.239251	-57.495118	-2151.117	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.921991	424.391431	8.122916
499.436029	68.695384	2870.526	
0.25000	23.921991	446.777634	8.122916
499.436029	63.847656	2609.995	
0.50000	23.921991	470.563849	8.122916
499.436029	60.049461	2338.629	
0.75000	23.921991	495.246633	8.122916
499.436029	57.420496	2062.059	
1.00000	23.921991	520.099988	8.122916
499.436029	56.432325	1800.161	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.258505	-201.221589	-4.704878
-431.150635	-62.835297	-1741.487	
0.25000	-23.258505	-176.850894	-4.704878
-431.150635	-64.644141	-1839.259	
0.50000	-23.258505	-153.325567	-4.704878
-431.150635	-66.929246	-1937.124	
0.75000	-23.258505	-131.308907	-4.704878
-431.150635	-69.502413	-2035.109	
1.00000	-23.258505	-111.167977	-4.704878
-431.150635	-72.324880	-2133.552	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.095601	137.920592	1.395259
75.613672	36.348315	983.929296	
0.25000	11.095601	137.933443	1.395259
75.570346	36.001802	844.448776	
0.50000	11.095601	137.947029	1.395259
75.533300	36.657616	728.813298	
0.75000	11.095601	137.961074	1.395259
75.498026	37.324204	643.502561	
1.00000	11.095601	137.976718	1.395259
75.464902	38.053246	580.360784	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.172746	-25.208447	-0.774188
-153.039559	-6.518869	-626.712514	
0.25000	-4.172746	-25.192989	-0.774188
-153.061147	-7.009746	-662.525850	
0.50000	-4.172746	-25.179423	-0.774188
-153.087630	-7.505313	-698.369741	
0.75000	-4.172746	-25.166616	-0.774188
-153.122780	-8.006302	-734.213632	
1.00000	-4.172746	-25.154796	-0.774188
-153.163614	-8.522297	-770.064745	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.524821	210.504982	1.653525
66.138623	31.755501	1501.840	
0.25000	10.524821	210.517832	1.653525
66.095297	32.538503	1286.598	
0.50000	10.524821	210.531419	1.653525
66.056361	33.542789	1096.393	
0.75000	10.524821	210.545464	1.653525
66.022977	34.879795	941.630447	
1.00000	10.524821	210.561108	1.653525
65.989853	36.645998	824.352588	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.045690	-43.632536	-3.094397
-350.555595	-21.667643	-1125.142	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-9.045690	-43.617078	-3.094397
-350.577182	-22.221862	-1175.060	
0.50000	-9.045690	-43.603512	-3.094397
-350.603666	-22.901186	-1225.038	
0.75000	-9.045690	-43.590705	-3.094397
-350.638816	-23.591069	-1275.017	
1.00000	-9.045690	-43.578885	-3.094397
-350.679649	-24.287334	-1325.037	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.283471	398.419316	6.678510
414.151925	64.821451	2689.087	
0.25000	19.283471	420.840234	6.678510
385.617832	61.199428	2445.036	
0.50000	19.283471	444.607475	6.678510
353.857930	58.544831	2189.465	
0.75000	19.283471	469.224985	6.678510
338.409932	57.205637	1928.129	
1.00000	19.283471	495.259394	6.678510
338.409932	56.987020	1663.417	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.756997	-192.148602	-2.960820
-359.603411	-41.259402	-1615.482	
0.25000	-18.756997	-166.522635	-2.960820
-359.603411	-43.917983	-1710.742	
0.50000	-18.756997	-142.910157	-2.960820
-359.603411	-46.688858	-1806.056	
0.75000	-18.756997	-120.719650	-2.960820
-359.603411	-49.467768	-1901.370	
1.00000	-18.756997	-100.318724	-2.960820
-362.190464	-52.251229	-1996.932	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.927058	364.026817	5.619020
378.925601	62.725374	2495.753	
0.25000	20.927058	382.702000	5.619020
355.158535	61.189895	2256.106	
0.50000	20.927058	402.498585	5.619020
328.704577	60.444988	2008.219	
0.75000	20.927058	423.203389	5.619020
315.837388	60.783153	1757.573	
1.00000	20.927058	444.688379	5.619020
315.837388	62.033384	1534.766	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.411671	-173.073651	-5.943049
-459.611747	-56.088099	-1657.732	
0.25000	-20.411671	-151.728867	-5.943049
-459.611747	-55.416294	-1735.854	
0.50000	-20.411671	-132.061189	-5.943049
-459.611747	-55.304605	-1814.029	
0.75000	-20.411671	-113.577923	-5.943049
-459.611747	-55.702928	-1892.463	
1.00000	-20.411671	-96.585262	-5.943049
-461.766596	-56.502155	-1971.148	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.922099	45.013579	0.164039
60.169578	19.254289	371.414101	
0.25000	7.922099	45.026435	0.164039
60.126174	21.543248	321.199274	
0.50000	7.922099	45.040027	0.164039
60.089068	23.868760	272.697347	
0.75000	7.922099	45.054077	0.164039
60.053736	26.240506	226.686137	
1.00000	7.922099	45.069731	0.164039
60.020552	28.625848	225.176567	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.418375	-19.736072	-5.695606
-242.993013	-30.555264	-461.505293	
0.25000	-8.418375	-19.720605	-5.695606
-243.014961	-25.450155	-456.948659	
0.50000	-8.418375	-19.707033	-5.695606
-243.041752	-20.920783	-452.814009	
0.75000	-8.418375	-19.694231	-5.695606
-243.076960	-16.931064	-448.826502	
1.00000	-8.418375	-19.682395	-5.695606
-243.117866	-13.545206	-445.105025	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.465727	102.326399	0.899551
81.235344	26.342046	783.022546	
0.25000	12.465727	102.339250	0.899551
81.192017	29.540687	670.234648	
0.50000	12.465727	102.352837	0.899551
81.154071	32.849134	563.210556	
0.75000	12.465727	102.366881	0.899551
81.119698	36.309110	464.057095	
1.00000	12.465727	102.382525	0.899551
81.086573	39.965717	426.941960	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.222282	-36.091042	-8.823335
-429.369948	-63.450642	-883.374518	
0.25000	-17.222282	-36.075584	-8.823335
-429.391536	-58.578470	-887.113310	
0.50000	-17.222282	-36.062018	-8.823335
-429.418019	-54.518282	-891.319538	
0.75000	-17.222282	-36.049211	-8.823335
-429.453169	-51.150496	-895.727335	
1.00000	-17.222282	-36.037391	-8.823335
-429.494003	-48.493582	-900.533466	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.667639	188.398183	0.819030
73.335937	31.150220	1402.265	
0.25000	12.667639	188.409149	0.819030
73.296943	33.963807	1202.288	
0.50000	12.667639	188.421977	0.819030
73.263602	37.014762	1017.237	
0.75000	12.667639	188.434617	0.819030
73.231855	40.369408	852.016696	
1.00000	12.667639	188.448696	0.819030
73.202043	44.100130	756.679805	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.464795	-50.831028	-8.217431
-528.414981	-48.638921	-1312.086	
0.25000	-14.464795	-50.817117	-8.217431
-528.434410	-43.745640	-1341.066	
0.50000	-14.464795	-50.804907	-8.217431
-528.458245	-39.573943	-1370.423	
0.75000	-14.464795	-50.793381	-8.217431
-528.489880	-36.045738	-1399.979	
1.00000	-14.464795	-50.782743	-8.217431
-528.526631	-33.167719	-1429.876	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.875441	313.431364	3.963163
318.850759	60.736560	2191.833	
0.25000	19.875441	326.547622	3.963163
285.584474	61.542753	1959.165	
0.50000	19.875441	340.432939	3.963163
262.437909	63.205010	1727.024	
0.75000	19.875441	354.800149	3.963163
237.843989	65.439165	1502.089	
1.00000	19.875441	370.406463	3.963163
221.569980	68.393292	1322.676	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.152110	-137.611344	-7.257977
-494.079120	-52.942309	-1584.980	
0.25000	-19.152110	-122.219233	-7.257977
-494.079120	-50.152266	-1646.613	
0.50000	-19.152110	-108.389077	-7.257977
-501.261049	-47.964462	-1708.559	
0.75000	-19.152110	-95.361673	-7.257977
-521.811020	-46.317534	-1770.672	
1.00000	-19.152110	-83.353019	-7.257977
-546.157079	-45.217066	-1833.137	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.791977	300.800122	10.573594
618.708015	49.212177	1650.221	
0.25000	19.791977	322.646833	10.573594
627.316712	42.095124	1553.413	
0.50000	19.791977	345.752181	10.573594
635.925409	35.765896	1460.163	
0.75000	19.791977	369.698267	10.573594
644.534106	30.792197	1355.731	
1.00000	19.791977	393.983318	10.573594
653.142802	27.311736	1243.293	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-37.476873	-156.852521	-0.470529
-144.597821	-56.923700	-942.335666	
0.25000	-37.476873	-139.477205	-0.470529
-144.597821	-62.906526	-1042.218	
0.50000	-37.476873	-122.791733	-0.470529
-144.597821	-69.446494	-1189.840	
0.75000	-37.476873	-107.249784	-0.470529
-144.597821	-76.697970	-1365.881	
1.00000	-37.476873	-93.230780	-0.470529
-144.597821	-84.770052	-1571.319	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	42.285689	483.760653	13.609068
761.462217	102.400068	2691.123	
0.25000	42.285689	510.180901	13.609068
764.775567	94.155088	2477.617	
0.50000	42.285689	538.157168	13.609068
768.088916	87.348849	2300.020	
0.75000	42.285689	567.200589	13.609068
771.402266	81.929480	2138.250	
1.00000	42.285689	596.735690	13.609068
774.715616	78.098568	1989.817	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-43.675123	-223.071092	-1.446805
-269.274648	-66.657220	-1639.509	
0.25000	-43.675123	-201.548704	-1.446805
-269.274648	-73.768254	-1771.905	
0.50000	-43.675123	-180.901020	-1.446805
-269.274648	-81.554220	-1996.887	
0.75000	-43.675123	-161.722726	-1.446805
-269.274648	-90.220651	-2270.884	
1.00000	-43.675123	-144.399251	-1.446805
-269.274648	-99.867088	-2594.872	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	38.186506	548.142186	12.303749
674.759524	92.254299	3174.649	
0.25000	38.186506	572.385458	12.303749
677.155756	85.473840	2882.858	
0.50000	38.186506	598.061820	12.303749
679.551988	79.925970	2651.622	
0.75000	38.186506	624.722459	12.303749
681.948220	75.964037	2448.996	
1.00000	38.186506	651.840316	12.303749
684.344452	73.826608	2273.140	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-41.576766	-231.666360	-2.845085
-425.508733	-64.292294	-2116.864	
0.25000	-41.576766	-211.869032	-2.845085
-425.508733	-69.943614	-2228.544	
0.50000	-41.576766	-192.880483	-2.845085
-425.508733	-76.241499	-2458.475	
0.75000	-41.576766	-175.244505	-2.845085
-425.508733	-83.557111	-2755.049	
1.00000	-41.576766	-159.315635	-2.845085
-425.508733	-92.201032	-3115.141	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	37.315435	508.603010	10.601304
608.614071	87.927483	3075.368	
0.25000	37.315435	528.612288	10.601304
610.611439	83.966106	2781.646	
0.50000	37.315435	550.213296	10.601304
612.608807	81.284165	2546.675	
0.75000	37.315435	572.436151	10.601304
614.606176	80.225478	2347.687	
1.00000	37.315435	595.040118	10.601304
616.603544	81.011131	2181.544	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-45.290263	-214.368853	-6.158828
-552.460237	-82.712277	-2177.244	
0.25000	-45.290263	-197.866880	-6.158828
-552.460237	-85.148874	-2253.789	
0.50000	-45.290263	-182.039044	-6.158828
-552.460237	-88.667331	-2438.467	
0.75000	-45.290263	-167.338671	-6.158828
-552.460237	-93.322753	-2683.669	
1.00000	-45.290263	-154.061233	-6.158828
-552.460237	-99.420655	-3008.343	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.954962	176.516454	1.761273
71.618872	49.553608	1054.674	
0.25000	22.954962	176.524173	1.761273
71.598658	49.595676	914.269061	
0.50000	22.954962	176.532438	1.761273
71.579461	49.770212	816.923077	
0.75000	22.954962	176.541098	1.761273
71.561518	50.102834	753.475072	
1.00000	22.954962	176.550002	1.761273
71.545266	50.548919	720.661246	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.463198	-43.908521	-1.103541
-165.817377	-7.680256	-773.474334	
0.25000	-5.463198	-43.901426	-1.103541
-165.831217	-8.087121	-790.941572	
0.50000	-5.463198	-43.894684	-1.103541
-165.846655	-8.624086	-859.910867	
0.75000	-5.463198	-43.888443	-1.103541
-165.863314	-9.313082	-951.723747	
1.00000	-5.463198	-43.882834	-1.103541
-165.880773	-10.118163	-1065.999	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.146078	279.392448	1.958113
73.667967	44.629116	1774.416	
0.25000	21.146078	279.400167	1.958113
73.647746	45.628133	1537.500	
0.50000	21.146078	279.408433	1.958113
73.628542	47.056814	1369.628	
0.75000	21.146078	279.417093	1.958113
73.610592	48.893671	1252.054	
1.00000	21.146078	279.425998	1.958113
73.594335	51.347729	1179.452	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.639454	-74.503988	-3.894470
-394.834132	-26.084803	-1417.697	
0.25000	-13.639454	-74.496892	-3.894470
-394.847980	-25.324951	-1421.044	
0.50000	-13.639454	-74.490149	-3.894470
-394.863426	-24.887923	-1503.779	
0.75000	-13.639454	-74.483908	-3.894470
-394.880094	-24.729262	-1631.974	
1.00000	-13.639454	-74.478298	-3.894470
-394.897563	-25.037020	-1800.912	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	34.240994	479.083136	8.526358
504.764221	82.876908	2856.458	
0.25000	34.240994	499.935074	8.526358
469.374352	79.455013	2581.970	
0.50000	34.240994	522.146242	8.526358
432.949470	76.989498	2364.903	
0.75000	34.240994	545.294648	8.526358
409.561142	75.462417	2175.377	
1.00000	34.240994	568.981447	8.526358
400.941484	75.412274	2011.580	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-31.178640	-206.047795	-3.934646
-444.273618	-53.302644	-2016.936	
0.25000	-31.178640	-187.957935	-3.934646
-444.270945	-56.187442	-2087.929	
0.50000	-31.178640	-170.689899	-3.934646
-444.265458	-59.627657	-2320.755	
0.75000	-31.178640	-154.671341	-3.934646
-449.622814	-63.674149	-2626.858	
1.00000	-31.178640	-140.252611	-3.934646
-476.070545	-68.651594	-2920.392	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	35.950403	443.638107	7.246119
483.770061	83.661570	2794.178	
0.25000	35.950403	461.009889	7.246119
454.287745	83.192482	2520.237	
0.50000	35.950403	479.513396	7.246119
423.943190	83.809115	2301.893	
0.75000	35.950403	498.797689	7.246119
404.459023	85.531231	2118.891	
1.00000	35.950403	518.530502	7.246119
397.278227	88.741890	1967.846	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-33.154900	-194.179379	-7.882774
-573.777676	-67.095843	-2086.415	
0.25000	-33.154900	-179.109219	-7.882774
-573.775449	-66.256891	-2124.659	
0.50000	-33.154900	-164.723699	-7.882774
-573.770879	-66.390733	-2304.229	
0.75000	-33.154900	-151.379084	-7.882774
-578.233942	-67.548535	-2562.345	
1.00000	-33.154900	-139.367241	-7.882774
-600.266811	-69.909966	-2812.890	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.480480	62.168716	0.222625
111.247126	31.048832	615.758298	
0.25000	15.480480	62.176436	0.222625
111.226883	35.181228	553.790422	
0.50000	15.480480	62.184704	0.222625
111.207658	39.777752	499.675773	
0.75000	15.480480	62.193367	0.222625
111.189689	44.929198	466.486281	
1.00000	15.480480	62.202274	0.222625
111.173414	50.667038	447.870502	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.512622	-35.886187	-7.774565
-309.900678	-32.150265	-609.823602	
0.25000	-10.512622	-35.879089	-7.774565
-309.914550	-26.721569	-574.776629	
0.50000	-10.512622	-35.872344	-7.774565
-309.930021	-21.969779	-548.275621	
0.75000	-10.512622	-35.866100	-7.774565
-309.946715	-18.026166	-548.515668	
1.00000	-10.512622	-35.860488	-7.774565
-309.964212	-14.925558	-553.276666	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.846506	140.857826	0.878761
148.172690	42.373352	1199.012	
0.25000	19.846506	140.865543	0.878761
148.152506	47.769321	1062.992	
0.50000	19.846506	140.873806	0.878761
148.133336	53.946779	949.909872	
0.75000	19.846506	140.882463	0.878761
148.115418	60.947504	873.457323	
1.00000	19.846506	140.891364	0.878761
148.099190	68.804444	824.497712	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.779522	-62.357230	-11.462093
-539.806034	-70.259886	-1169.630	
0.25000	-24.779522	-62.350138	-11.462093
-539.819843	-63.336608	-1125.288	
0.50000	-24.779522	-62.343399	-11.462093
-539.835247	-57.359264	-1102.767	
0.75000	-24.779522	-62.337161	-11.462093
-539.851871	-52.458036	-1123.598	
1.00000	-24.779522	-62.331555	-11.462093
-539.869294	-48.634333	-1161.291	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.040979	256.808235	0.966801
134.286163	51.250674	1899.562	
0.25000	25.040979	256.891582	0.966801
134.068092	56.540346	1666.040	

0.50000 25.040979 256.980832 0.966801
133.860981 62.474208 1488.312
0.75000 25.040979 257.074335 0.966801
133.667400 69.174225 1361.803
1.00000 25.040979 257.170478 0.966801
133.492075 76.963327 1279.936

COMB DL-G3-3 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-20.830287	-87.065399	-10.870075		
-630.657737	-55.419328	-1680.236			
0.25000	-20.830287	-86.988802	-10.870075		
-630.806959	-49.111946	-1637.468			
0.50000	-20.830287	-86.916016	-10.870075		
-630.973412	-43.604054	-1661.643			
0.75000	-20.830287	-86.848635	-10.870075		
-631.153048	-39.045681	-1747.133			
1.00000	-20.830287	-86.788083	-10.870075		
-631.341314	-35.668951	-1867.315			

COMB DL-G3-4 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	38.713356	390.218201	5.009756		
404.235866	86.211633	2563.774			
0.25000	38.713356	402.646482	5.009756		
376.062053	88.479604	2298.410			
0.50000	38.713356	415.920574	5.009756		
348.979695	91.550509	2089.753			
0.75000	38.713356	429.800692	5.009756		
323.775057	95.817700	1924.625			
1.00000	38.713356	444.032856	5.009756		
301.005174	101.358398	1796.311			

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
629

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-28.323583	-167.625626	-9.723506		
-607.073649	-62.258864	-2071.417			
0.25000	-28.323583	-156.500113	-9.723506		
-611.229624	-58.931627	-2083.362			
0.50000	-28.323583	-145.901599	-9.723506		
-630.958868	-56.459282	-2181.566			
0.75000	-28.323583	-136.083221	-9.723506		
-652.362624	-55.006656	-2346.234			
1.00000	-28.323583	-127.253314	-9.723506		
-674.796640	-54.803028	-2568.137			

COMB DB ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	27.441034	462.962841	10.353683		
654.008273	85.948863	3098.565			
0.25000	27.441034	489.813748	10.353683		
654.008273	78.257013	2838.052			
0.50000	27.441034	518.343976	10.353683		
654.008273	71.723055	2561.813			
0.75000	27.441034	547.949682	10.353683		
654.008273	66.380329	2276.249			
1.00000	27.441034	577.757735	10.353683		
654.008273	68.393292	1978.896			

COMB DB ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-23.258505	-228.288633	-8.823335		
-528.414981	-63.450642	-1741.487			
0.25000	-23.258505	-196.507898	-8.823335		
-528.434410	-64.644141	-1839.259			
0.50000	-23.258505	-168.031018	-8.823335		
-528.458245	-66.929246	-1937.124			
0.75000	-23.258505	-141.623611	-8.823335		
-528.489880	-69.502413	-2036.134			
1.00000	-23.258505	-117.466189	-8.823335		
-546.157079	-72.324880	-2151.117			

COMB DL ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	42.285689	548.142186	13.609068		
761.462217	102.400068	3174.649			
0.25000	42.285689	572.385458	13.609068		
764.775567	94.315088	2882.858			
0.50000	42.285689	598.061820	13.609068		
768.088916	91.550509	2651.622			
0.75000	42.285689	624.722459	13.609068		
771.402266	95.817700	2448.996			
1.00000	42.285689	651.840316	13.609068		
774.715616	101.358398	2273.140			

COMB DL ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-45.290263	-231.666360	-11.462093		
-630.657737	-82.712277	-2177.244			
0.25000	-45.290263	-211.869032	-11.462093		
-630.806959	-76.403788	-2253.789			
0.50000	-45.290263	-192.880463	-11.462093		
-630.973412	-88.667331	-2458.475			
0.75000	-45.290263	-175.244505	-11.462093		
-652.362624	-93.320276	-2755.049			
1.00000	-45.290263	-159.315635	-11.462093		
-674.796640	-99.867088	-3115.141			

COMB CAR ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	42.285689	548.142186	13.609068		
761.462217	102.400068	3174.649			
0.25000	42.285689	572.385458	13.609068		
764.775567	94.315088	2882.858			
0.50000	42.285689	598.061820	13.609068		
768.088916	91.550509	2651.622			
0.75000	42.285689	624.722459	13.609068		
771.402266	95.817700	2448.996			
1.00000	42.285689	651.840316	13.609068		
774.715616	101.358398	2273.140			

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
630

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-45.290263	-231.666360	-11.462093		
-630.657737	-82.712277	-2177.244			
0.25000	-45.290263	-211.869032	-11.462093		
-630.806959	-76.403788	-2253.789			
0.50000	-45.290263	-192.880463	-11.462093		
-630.973412	-88.667331	-2458.475			
0.75000	-45.290263	-175.244505	-11.462093		
-652.362624	-93.320276	-2755.049			
1.00000	-45.290263	-159.315635	-11.462093		
-674.796640	-99.867088	-3115.141			

COMB DESIGN ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	42.285689	548.142186	13.609068		
761.462217	102.400068	3174.649			
0.25000	42.285689	572.385458	13.609068		
764.775567	94.315088	2882.858			
0.50000	42.285689	598.061820	13.609068		
768.088916	91.550509	2651.622			
0.75000	42.285689	624.722459	13.609068		
771.402266	95.817700	2448.996			
1.00000	42.285689	651.840316	13.609068		
774.715616	101.358398	2273.140			

COMB DESIGN ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-45.290263	-231.666360	-11.462093		
-630.657737	-82.712277	-2177.244			
0.25000	-45.290263	-211.869032	-11.462093		
-630.806959	-76.403788	-2253.789			
0.50000	-45.290263	-192.880463	-11.462093		
-630.973412	-88.667331	-2458.475			
0.75000	-45.290263	-175.244505	-11.462093		
-652.362624	-93.320276	-2755.049			
1.00000	-45.290263	-159.315635	-11.462093		
-674.796640	-99.867088	-3115.141			

ELEM 30 ========== LENGTH = 4.986674

COMB DB-G1-1 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	14.720986	337.771990	2.903004		
556.357874	19.319485	1219.290			
0.25000	14.720986	361.581906	2.903004		
556.357874	17.261961	1021.887			
0.50000	14.720986	386.753093	2.903004		
556.357874	16.130406	839.126701			
0.75000	14.720986	412.749742	2.903004		
556.357874	16.396354	604.951802			
1.00000	14.720986	438.073794	2.903004		
556.357874	18.188763	387.940087			

COMB DB-G1-1 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-14.666223	-106.301853	-5.121763		
-181.416861	-50.546376	-1041.269			
0.25000	-14.666223	-83.663483	-5.121763		
-181.416861	-47.514588	-1144.789			
0.50000	-14.666223	-61.186734	-5.121763		
-181.416861	-44.597781	-1248.594			
0.75000	-14.666223	-40.304278	-5.121763		
-181.416861	-41.785293	-1352.736			
1.00000	-14.666223	-26.797663	-5.121763		
-181.416861	-39.239153	-1457.069			

COMB DB-G1-2 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	26.777696	513.726899	16.516040		
639.380574	61.302983	1885.568			
0.25000	26.777696	543.495495	16.516040		
639.380574	42.322208	1570.391			
0.50000	26.777696	574.894464	16.516040		
639.380574	24.364685	1242.748			

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
631

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST		P	V2	V3
	T	M2	M3		
0.75000	26.777696	607.288239	16.516040		
639.380574	19.616720	920.450333			
1.00000	26.777696	639.681037	16.516040		
639.380574	17.381771	652.720728			

COMB DB-G1-2 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-20.268858	-150.516435	-2.451857		
-317.724260	-62.954523	-1756.101			
0.25000	-20.268858	-121.159541	-2.451857		
-317.724260	-62.569895	-1903.171			
0.50000	-20.268858	-92.778885	-2.451857		
-317.724260	-62.939458	-2050.367			
0.75000	-20.268858	-66.349491	-2.451857		
-317.724260	-64.628630	-2196.174			
1.00000	-20.268858	-47.821308	-2.451857		
-317.724260	-73.991543	-2346.003			

COMB DB-G1-3 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	22.684618	547.959034	12.105831		
604.348882	52.075321	1978.152			
0.25000	22.684618	575.273255	12.105831		
604.348882	38.310107	1615.272			
0.50000	22.684618	604.080209	12.105831		
604.348882	29.770554	1251.788			
0.75000	22.684618	633.796595	12.105831		
604.348882	22.021405	1057.211			
1.00000	22.684618	663.576116	12.105831		
604.348882	19.749909	822.212181			

COMB DB-G1-3 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-19.482747	-155.414737	-2.195337		
-460.255768	-56.512193	-2150.558			
0.25000	-19.482747	-128.383253	-2.195337		
-460.255768	-56.804496	-2292.500			
0.50000	-19.482747	-102.319788	-2.195337		
-460.255768	-57.638717	-2434.631			
0.75000	-19.482747	-78.043684	-2.195337		
-460.255768	-59.234215	-2577.294			
1.00000	-19.482747	-60.919232	-2.195337		
-460.255768	-65.159253	-2720.405			

COMB DB-G1-4 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	23.231082	494.766599	10.659309		
565.878135	54.781292	1799.552			
0.25000	23.231082	517.539289	10.659309		
565.878135	43.888437	1502.107			
0.50000	23.231082	541.555576	10.659309		
565.878135	34.578144	1269.109			
0.75000	23.231082	566.330382	10.659309		
565.878135	33.984959	1044.231			
1.00000	23.231082	591.159727	10.659309		
565.878135	36.734799	852.231737			

COMB DB-G1-4 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-22.342468	-143.320571	-8.920076		
-551.786791	-71.726256	-2133.295			
0.25000	-22.342468	-120.781191	-8.920076		
-551.786791	-63.227020	-2241.162			
0.50000	-22.342468	-99.051004	-8.920076		
-551.786791	-55.430952	-2349.728			
0.75000	-22.342468	-78.810889	-8.920076		
-551.786791	-49.770591	-2459.217			
1.00000	-22.342468	-64.530294	-8.920076		
-551.786791	-54.840983	-2569.301			

COMB DB-G2-1 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	11.146692	156.386267	13.155396		
51.637421	38.168589	580.751670			

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
632

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST		P	V2	V3
	T	M2	M3		
0.25000	11.146692	156.399176	13.155396		
51.592045	21.984732	423.679383			
0.50000	11.146692	156.412709	13.155396		
51.552206	7.181506	322.360181			
0.75000	11.146692	156.426597	13.155396		
51.520863	6.439032	288.564544			
1.00000	11.146692	156.442045	13.155396		
51.505649	6.644446	289.663234			

COMB DB-G2-1 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-3.777276	-22.106050	-0.230538		
-184.589057	-8.160777	-770.006819			
0.25000	-3.777276	-22.090984	-0.230538		
-184.599391	-10.464297	-804.860731			
0.50000	-3.777276	-22.078112	-0.230538		
-184.632186	-13.619103	-839.870917			
0.75000	-3.777276	-22.066017	-0.230538		
-184.669265	-18.131515	-874.960552			
1.00000	-3.777276	-22.055092	-0.230538		
-184.712162	-29.247801	-910.051532			

COMB DB-G2-2 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	10.384399	231.257431	9.260148		
100.328822	35.601522	825.244014			
0.25000	10.384399	231.270340	9.260148		
100.283446	24.598427	622.378554			
0.50000	10.384399	231.283873	9.260148		
100.243608	14.803168	545.351157			
0.75000	10.384399	231.297761	9.260148		
100.212265	16.032097	521.769616			
1.00000	10.384399	231.313209	9.260148		
100.197050	20.687224	530.665807			

COMB DB-G2-2 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-8.824309	-40.338828	-5.527247		
-389.850975	-23.833702	-1325.138			
0.25000	-8.824309	-40.323762	-5.527247		
-389.861309	-20.037853	-1360.127			
0.50000	-8.824309	-40.310889	-5.527247		
-389.894104	-17.177948	-1395.469			
0.75000	-8.824309	-40.298795	-5.527247		
-389.931183	-16.785400	-1430.981			
1.00000	-8.824309	-40.287870	-5.527247		
-389.974080	-25.676127	-1467.033			

COMB DB-G2-3 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	18.703064	461.051718	13.893248		
443.164685	55.529897	1663.478			
0.25000	18.703064	483.724056	13.893248		
409.758291	39.452312	1371.934			
0.50000	18.703064	507.567443	13.893248		
386.468338	24.503547	1160.092			
0.75000	18.703064	532.103757	13.893248		
386.468338	20.452308	961.062421			
1.00000	18.703064	557.963275	13.893248		
386.468338	24.486904	781.907901			

COMB DB-G2-3 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-18.035540	-144.178101	-5.780405		
-457.499447	-51.466102	-1996.656			
0.25000	-18.035540	-119.838155	-5.780405		
-457.499447	-48.449934	-2100.420			
0.50000	-18.035540	-97.743979	-5.780405		
-457.499447	-46.361193	-2204.511			
0.75000	-18.035540	-77.089441	-5.780405		
-457.499447	-46.502758	-2308.809			
1.00000	-18.035540	-60.370862	-5.780405		
-457.499447	-54.230563	-2413.855			

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
633

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	20.371773	415.387311	12.248649		
441.378395	61.121994	1534.852			
0.25000	20.371773	434.271912	12.248649		
413.553015	48.492535	1294.162			
0.50000	20.371773	454.131922	12.248649		
394.153980	36.888958	1121.339			
0.75000	20.371773	474.569095	12.248649		
394.153980	34.256278	958.651554			
1.00000	20.371773	496.108412	12.248649		
394.153980	38.296698	812.637621			

COMB DB-G2-4 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-19.640678	-134.817151	-8.287667		
-549.073123	-56.033145	-1971.171			
0.25000	-19.640678	-114.543539	-8.287667		
-549.073123	-49.431795	-2043.704			
0.50000	-19.640678	-96.140511	-8.287667		
-549.073123	-43.614153	-2117.103			
0.75000	-19.640678	-78.929111	-8.287667		
-549.073123	-39.792064	-2191.001			
1.00000	-19.640678	-65.011105	-8.287667		
-549.073123	-45.486592	-2266.158			

COMB DB-G3-1 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	7.808529	43.688358	1.329131		
117.686437	29.025033	225.242450			
0.25000	7.808529	43.701272	1.329131		
117.640987	28.617288	228.841062			
0.50000	7.808529	43.714810	1.329131		
117.601090	28.235577	233.091252			
0.75000	7.808529	43.728702	1.329131		
117.569334	27.968335	237.386277			
1.00000	7.808529	43.744160	1.329131		
117.553914	28.004688	241.716339			

COMB DB-G3-1 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-8.178924	-23.788960	-4.137372		
-255.538436	-13.818296	-445.519484			
0.25000	-8.178924	-23.773882	-4.137372		
-255.549191	-9.796742	-422.323315			
0.50000	-8.178924	-23.761003	-4.137372		
-255.582320	-6.413723	-399.863621			
0.75000	-8.178924	-23.748902	-4.137372		
-255.619456	-4.128891	-378.088494			
1.00000	-8.178924	-23.737972	-4.137372		
-255.662426	-3.360362	-357.135909			

COMB DB-G3-2 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	12.274239	101.919391	2.052126		
178.328817	40.237639	427.224182			
0.25000	12.274239	101.932300	2.052126		
178.283442	39.979877	423.984185			
0.50000	12.274239	101.945832	2.052126		
178.243603	40.028473	431.365904			
0.75000	12.274239	101.959721	2.052126		
178.212260	43.084793	439.583462			
1.00000	12.274239	101.975169	2.052126		
178.197045	52.254356	449.133805			

COMB DB-G3-2 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-16.984280	-39.720180	-14.559224		
-450.384622	-49.012805	-901.133347			
0.25000	-16.984280	-39.705314	-14.559224		
-450.394956	-32.211555	-872.348858			
0.50000	-16.984280	-39.692442	-14.559224		
-450.427751	-16.486602	-844.871599			
0.75000	-16.984280	-39.680347	-14.559224		
-450.464830	-4.782153	-818.414154			
1.00000	-16.984280	-39.669422	-14.559224		
-450.507727	-2.669439	-793.173375			

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
634

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	12.401713	198.578743	3.799622		
183.782303	43.499169	757.496560			
0.25000	12.401713	198.590361	3.799622		
183.741465	40.826474	633.502486			
0.50000	12.401713	198.602541	3.799622		
183.705610	39.051358	613.798257			
0.75000	12.401713	198.615040	3.799622		
183.677401	40.947086	628.699132			
1.00000	12.401713	198.628943	3.799622		
183.663708	45.089197	645.725807			

COMB DB-G3-3 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-14.140378	-54.123380	-9.244467		
-565.364963	-33.145833	-1430.428			
0.25000	-14.140378	-54.109820	-9.244467		
-565.374263	-24.416535	-1424.991			
0.50000	-14.140378	-54.098235	-9.244467		
-565.403779	-16.619926	-1420.713			
0.75000	-14.140378	-54.087350	-9.244467		
-565.437149	-11.214776	-1417.271			
1.00000	-14.140378	-54.077517	-9.244467		
-565.475757	-11.020972	-1415.172			

COMB DB-G3-4 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	19.437315	350.704678	13.811483		
376.086526	67.889353	1323.137			
0.25000	19.437315	363.923417	13.811483		
351.800869	53.526603	1116.247			
0.50000	19.437315	377.802265	13.811483		
325.895162	40.587339	984.765219			
0.75000	19.437315	392.064802	13.811483		
304.628687	39.016525	872.996914			
1.00000	19.437315	407.519061	13.811483		
304.628687	42.449673	778.053474			

COMB DB-G3-4 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-18.491512	-115.287162	-8.022012		
-564.373133	-44.885160	-1833.379			
0.25000	-18.491512	-100.467920	-8.022012		
-564.373133	-39.239542	-1878.212			
0.50000	-18.491512	-87.433824	-8.022012		
-564.373133	-34.799278	-1924.020			
0.75000	-18.491512	-75.214678	-8.022012		
-586.469488	-32.989588	-1970.522			
1.00000	-18.491512	-64.647726	-8.022012		
-611.478911	-38.832379	-2018.207			

COMB DL-G1-1 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	18.998609	402.910806	3.333977		
683.236937	27.927341	1242.213			
0.25000	18.998609	427.153207	3.333977		
691.842784	25.255382	1154.991			
0.50000	18.998609	452.637590	3.333977		
700.448631	22.978606	1063.046			
0.75000	18.998609	478.901197	3.333977		
709.054477	22.084134	970.641837			
1.00000	18.998609	505.509634	3.333977		
717.660324	22.434895	883.704451			

COMB DL-G1-1 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-36.447633	-116.324774	-6.899437		
-272.057388	-85.978959	-1572.434			
0.25000	-36.447633	-101.324047	-6.899437		
-272.057388	-79.644261	-1637.258			
0.50000	-36.447633	-87.040985	-6.899437		
-272.057388	-73.716394	-2183.631			
0.75000	-36.447633	-73.908076	-6.899437		
-272.057388	-68.418531	-2543.438			
1.00000	-36.447633	-62.317991	-6.899437		
-272.057388	-63.742292	-2945.892			

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
635

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	41.182123	623.817308	20.974025		
806.883749	78.767487	1988.824			
0.25000	41.182123	652.923325	20.974025		
810.196001	56.711318	1823.962			
0.50000	41.182123	683.555368	20.974025		
813.508254	37.233163	1672.625			
0.75000	41.182123	715.119102	20.974025		
816.820507	30.552041	1554.407			
1.00000	41.182123	747.262517	20.974025		
820.132832	28.259490	1464.468			

COMB DL-G1-2 ---------- MIN

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	-42.047696	-170.705887	-4.634240		
-436.100047	-101.240501	-2596.008			
0.25000	-42.047696	-151.867009	-4.634240		
-436.100047	-100.091956	-3029.664			
0.50000	-42.047696	-133.955113	-4.634240		
-436.100047	-101.269595	-3518.180			
0.75000	-42.047696	-117.505000	-4.634240		
-436.100047	-109.858521	-4064.776			
1.00000	-42.047696	-102.962482	-4.634240		
-436.100047	-125.819220	-4678.516			

COMB DL-G1-3 ---------- MAX

REL	DIST		P	V2	V3
	T	M2	M3		
0.00000	37.032595	677.401057	16.352292		
760.384392	73.632807	2272.859			
0.25000	37.032595	704.090356	16.352292		
762.779831	57.649681	2081.926			

```
 0.50000    37.032595   732.183244    16.352292
765.175270    43.578466    1934.256
 0.75000    37.032595   761.190474    16.352292
767.570708    37.959936    1834.609
 1.00000    37.032595   790.628306    16.352292
769.966200    35.218149    1768.897

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -39.858658 -187.442531   -5.137703
-596.491821   -93.494166   -3115.919
 0.25000   -39.858658 -170.090859   -5.137703
-596.491821   -92.168871   -3572.620
 0.50000   -39.858658 -153.596476   -5.137703
-596.491821   -92.552312   -4094.493
 0.75000   -39.858658 -138.448318   -5.137703
-596.491821   -97.954818   -4684.681
 1.00000   -39.858658 -125.055869   -5.137703
-596.491821  -108.077081   -5348.768

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    36.319934   612.913151    14.255596
722.732521    80.990218    2181.849
 0.25000    36.319934   635.159896    14.255596
724.729228    69.445160    2013.829
 0.50000    36.319934   658.576595    14.255596
726.725935    60.790057    1888.340
 0.75000    36.319934   682.755441    14.255596
728.722642    61.756688    1810.041
 1.00000    36.319934   707.293213    14.255596
730.719393    68.699272    1766.035

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -43.745105 -184.237765  -13.318523
-705.451332  -100.967349   -3009.072
 0.25000   -43.745105 -169.774357  -13.318523
-705.451332   -90.767245   -3396.687
 0.50000   -43.745105 -156.025538  -13.318523
-705.451332   -83.331607   -3847.336
 0.75000   -43.745105 -143.398860  -13.318523
-705.451332   -82.396827   -4363.474
 1.00000   -43.745105 -132.235644  -13.318523
-705.451332   -90.855640   -4947.994
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                636

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   22.753275   204.597984    18.233708
60.084369    50.323525    721.011049
 0.25000   22.753275   204.606173    18.233708
60.064066    30.825346    635.713381
 0.50000   22.753275   204.614879    18.233708
60.044843    13.629527    576.290167
 0.75000   22.753275   204.623940    18.233708
60.027016    10.202626    569.140879
 1.00000   22.753275   204.633213    18.233708
60.010923    10.595675    587.436865

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.924968   -39.735428   -0.391604
-199.568882   -10.011610   -1065.844
 0.25000   -4.924968   -39.728823   -0.391604
-199.583896   -13.660934   -1196.504
 0.50000   -4.924968   -39.722601   -0.391604
-199.600508   -19.583618   -1349.762
 0.75000   -4.924968   -39.716903   -0.391604
-199.618332   -33.555144   -1524.961
 1.00000   -4.924968   -39.711842   -0.391604
-199.637003   -54.294444   -1722.753

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   20.803196   304.288026    13.096378
121.820812    50.484864    1180.505
 0.25000   20.803196   304.296216    13.096378
121.800502    39.049825    1062.891
 0.50000   20.803196   304.304921    13.096378
121.781272    30.189237    1002.320
 0.75000   20.803196   304.313983    13.096378
121.763439    31.448632    1003.206
 1.00000   20.803196   304.323256    13.096378
121.747341    37.588118    1039.706

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -12.960593   -74.760590    -7.111749
-447.039153   -25.055141   -1800.540
 0.25000  -12.960593   -74.753983    -7.111749
-447.054175   -22.058047   -1978.553
 0.50000  -12.960593   -74.747761    -7.111749
-447.070796   -21.727367   -2194.024
 0.75000  -12.960593   -74.742062    -7.111749
-447.088628   -27.948820   -2446.049
 1.00000  -12.960593   -74.737000    -7.111749
-447.107309   -41.788329   -2733.087

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   33.285501   570.123008    18.962742
562.945742    74.955953    2011.973
 0.25000   33.285501   592.658964    18.962742
525.934024    58.222810    1860.789
 0.50000   33.285501   616.504667    18.962742
492.937606    44.310300    1747.545
 0.75000   33.285501   641.225919    18.962742
483.333095    39.526793    1677.895
 1.00000   33.285501   666.412652    18.962742
476.286949    43.354104    1634.552

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -29.743097  -178.514231    -7.254834
-566.350119   -69.356642   -2920.299
 0.25000  -29.743097  -162.139810    -7.254834
-566.347628   -67.942540   -3276.401
 0.50000  -29.743097  -146.646230    -7.254834
-566.636604   -69.466400   -3686.517
 0.75000  -29.743097  -132.438866    -7.254834
-569.172208   -77.408541   -4167.466
 1.00000  -29.743097  -119.849092    -7.254834
-593.769314   -93.391717   -4690.211
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                637

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   35.097527   517.396345    16.511144
577.815369    88.682111    1968.770
 0.25000   35.097527   536.170423    16.511144
546.981936    76.125713    1833.414

 0.50000   35.097527   556.035615    16.511144
519.493539    66.361865    1736.327
 0.75000   35.097527   576.630202    16.511144
511.492288    64.614966    1681.613
 1.00000   35.097527   597.612569    16.511144
505.622339    71.183947    1654.406

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -31.784768 -179.127462   -10.910421
-688.740710   -71.008388   -2813.032
 0.25000  -31.784768 -165.486388   -10.910421
-688.738635   -65.522113   -3106.491
 0.50000  -31.784768 -152.579117   -10.910421
-688.979373   -62.843778   -3453.727
 0.75000  -31.784768 -140.743358   -10.910421
-691.091714   -65.888268   -3867.726
 1.00000  -31.784768 -130.255168   -10.910421
-711.582879   -77.961848   -4323.039

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.352250   59.809389    2.282378
180.141041    51.148005   448.804441
 0.25000   15.352250   59.817580    2.282378
180.120709    50.075335   435.602925
 0.50000   15.352250   59.826287    2.282378
180.101459    49.482524   430.842446
 0.75000   15.352250   59.835350    2.282378
180.083608    49.557698   434.628006
 1.00000   15.352250   59.844625    2.282378
180.067492    50.489121   446.176265

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.218110   -48.000063   -4.909936
-331.763836   -15.707755   -553.691645
 0.25000  -10.218110   -47.993453   -4.909936
-331.778883   -11.246827   -541.132231
 0.50000  -10.218110   -47.987228   -4.909936
-331.795528    -7.481864   -541.315099
 0.75000  -10.218110   -47.981527   -4.909936
-331.813388    -4.802427   -552.569155
 1.00000  -10.218110   -47.976463   -4.909936
-331.832097    -3.485990   -573.098515

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   19.694635   134.796506    2.629626
264.424522    69.329160   826.055858
 0.25000   19.694635   134.804693    2.629626
264.404244    70.238939   795.633638
 0.50000   19.694635   134.813397    2.629626
264.385047    73.229472   787.094455
 0.75000   19.694635   134.822456    2.629626
264.367246    81.472240   797.435872
 1.00000   19.694635   134.831726    2.629626
264.351175    96.592083   824.100174

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -24.405391   -80.547176   -17.902103
-574.000085   -49.874261   -1161.853
 0.25000  -24.405391   -80.540575   -17.902103
-574.018067   -31.421890   -1172.311
 0.50000  -24.405391   -80.534357   -17.902103
-574.034645   -15.847868   -1207.559
 0.75000  -24.405391   -80.528662   -17.902103
-574.052433    -5.974370   -1265.194
 1.00000  -24.405391   -80.523605   -17.902103
-574.071068    -4.147067   -1341.526
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                638

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   24.719862   264.780622    6.747627
257.547343    76.544379    1281.799
 0.25000   24.719862   264.869051    6.747627
257.328264    73.289272    1195.127
 0.50000   24.719862   264.963053    6.747627
257.120868    72.439614    1156.100
 0.75000   24.719862   265.060896    6.747627
256.928544    76.208752    1167.892
 1.00000   24.719862   265.161024    6.747627
256.754920    84.273008    1207.707

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -20.135136 -103.975414   -12.326450
-686.028823   -36.346868   -1867.392
 0.25000  -20.135136 -103.904108   -12.326450
-686.190712   -32.285744   -1970.455
 0.50000  -20.135136 -103.836950   -12.326450
-686.369844   -18.984332   -2114.519
 0.75000  -20.135136 -103.775435   -12.326450
-686.562054   -15.863850   -2296.259
 1.00000  -20.135136 -103.720802   -12.326450
-686.763409   -18.135576   -2511.351

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   38.102603   442.182909   18.923476
497.476652   101.246449    2707.665
 0.25000   38.102603   455.483645   18.923476
469.388468    85.686893    1677.825
 0.50000   38.102603   469.590938   18.923476
442.224182    73.697176    1597.389
 0.75000   38.102603   484.243378   18.923476
417.059649    72.174073    1563.130
 1.00000   38.102603   499.210727   18.923476
402.663396    78.487162    1557.319

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -27.117268 -163.996680   -10.580024
-699.500193   -55.760429   -2568.287
 0.25000  -27.117268 -153.769715   -10.580024
-700.741962   -50.515393   -2809.956
 0.50000  -27.117268 -144.113756   -10.580024
-722.173732   -48.918424   -3093.486
 0.75000  -27.117268 -135.262108   -10.580024
-745.430361   -54.846520   -3423.649
 1.00000  -27.117268 -127.411099   -10.580024
-769.821072   -69.608187   -3803.119

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   26.777696   547.959034   16.516040
639.380574    67.889353    1978.152
 0.25000   26.777696   575.273255   16.516040
639.380574    53.526603    1615.272
 0.50000   26.777696   604.080209   16.516040
639.380574    40.587439    1331.788
 0.75000   26.777696   633.796595   16.516040
639.380574    43.084793    1057.211
 1.00000   26.777696   663.576116   16.516040
639.380574    52.254356   852.231737

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -22.342468 -155.414737   -14.559224
-565.364963   -71.726256   -2150.558
 0.25000  -22.342468 -128.383253   -14.559224
-565.374263   -63.227020   -2292.500
 0.50000  -22.342468 -102.319780   -14.559224
-565.403779   -62.939458   -2434.631
 0.75000  -22.342468  -78.929111   -14.559224
-586.469488   -64.628630   -2577.294
 1.00000  -22.342468  -65.011105   -14.559224
-611.478911   -73.091543   -3220.405
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                639

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   41.182123   677.401057    20.974025
806.883749   101.246449    2272.859
 0.25000   41.182123   704.090356    20.974025
810.196001    85.686893    2081.926
 0.50000   41.182123   732.183244    20.974025
813.508254    73.697176    1934.256
 0.75000   41.182123   761.190474    20.974025
816.820507    81.472240    1834.609
 1.00000   41.182123   790.628306    20.974025
820.132832    96.592083    1768.897

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -43.745105 -187.442531   -17.902103
-705.451332  -101.240501   -3115.919
 0.25000  -43.745105 -170.090859   -17.902103
-705.451332  -100.091956   -3572.620
 0.50000  -43.745105 -156.025538   -17.902103
-722.173732  -101.269595   -4094.493
 0.75000  -43.745105 -143.398860   -17.902103
-745.430361  -109.858521   -4684.681
 1.00000  -43.745105 -132.235644   -17.902103
-769.821072  -125.819220   -5348.768

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   41.182123   677.401057    20.974025
806.883749   101.246449    2272.859
 0.25000   41.182123   704.090356    20.974025
810.196001    85.686893    2081.926
 0.50000   41.182123   732.183244    20.974025
813.508254    73.697176    1934.256
 0.75000   41.182123   761.190474    20.974025
816.820507    81.472240    1834.609
 1.00000   41.182123   790.628306    20.974025
820.132832    96.592083    1768.897

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -43.745105 -187.442531   -17.902103
-705.451332  -101.240501   -3115.919
 0.25000  -43.745105 -170.090859   -17.902103
-705.451332  -100.091956   -3572.620
 0.50000  -43.745105 -156.025538   -17.902103
-722.173732  -101.269595   -4094.493
 0.75000  -43.745105 -143.398860   -17.902103
-745.430361  -109.858521   -4684.681
 1.00000  -43.745105 -132.235644   -17.902103
-769.821072  -125.819220   -5348.768

 COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   41.182123   677.401057    20.974025
806.883749   101.246449    2272.859
 0.25000   41.182123   704.090356    20.974025
810.196001    85.686893    2081.926
 0.50000   41.182123   732.183244    20.974025
813.508254    73.697176    1934.256
 0.75000   41.182123   761.190474    20.974025
816.820507    81.472240    1834.609
 1.00000   41.182123   790.628306    20.974025
820.132832    96.592083    1768.897

 COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -43.745105 -187.442531   -17.902103
-705.451332  -101.240501   -3115.919
 0.25000  -43.745105 -170.090859   -17.902103
-705.451332  -100.091956   -3572.620
 0.50000  -43.745105 -156.025538   -17.902103
-722.173732  -101.269595   -4094.493
 0.75000  -43.745105 -143.398860   -17.902103
-745.430361  -109.858521   -4684.681
 1.00000  -43.745105 -132.235644   -17.902103
-769.821072  -125.819220   -5348.768
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                640

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      31 ================== LENGTH
=    3.491742

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   14.091482   437.185864    3.655849
497.308779    17.546933   387.596942
 0.25000   14.091482   454.718058    3.655849
497.308779    30.114355   360.135335
 0.50000   14.091482   472.717656    3.655849
497.308779    43.302775   373.555885
 0.75000   14.091482   491.066803    3.655849
497.308779    56.492797   386.985974
 1.00000   14.091482   509.313741    3.655849
497.308779    70.172758   400.449371

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -13.927476  -27.980207   -17.906792
-323.419629   -38.569959   -1456.141
 0.25000  -13.927476  -27.980207   -17.906792
-323.419629   -27.113160   -1565.725
 0.50000  -13.927476  -27.980207   -17.906792
-323.419629   -15.997210   -1675.381
 0.75000  -13.927476  -27.980207   -17.906792
-323.419629    -8.189547   -1785.196
 1.00000  -13.927476  -27.980207   -17.906792
-323.419629   -11.360733   -1895.487

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   26.107258   636.821979   43.826066
577.502960    16.369900    652.377216
 0.25000   26.107258   658.937483   43.826066
577.502960    19.735514   626.238288
 0.50000   26.107258   681.600142   43.826066
577.502960    23.148176   648.013408
 0.75000   26.107258   704.649298   43.826066
577.502960    26.615952   669.788742
 1.00000   26.107258   727.539802   43.826066
577.502960    30.095151   691.608399

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -19.154506   -56.443708   -14.661081
-507.408387   -72.847457   -2344.905
 0.25000  -19.154506   -48.651595   -14.661081
-507.408387   -96.412912   -2487.511
 0.50000  -19.154506   -48.651595   -14.661081
-507.408387  -120.277031   -2630.657
 0.75000  -19.154506   -48.651595   -14.661081
-507.408387  -144.232747   -2773.820
 1.00000  -19.154506   -48.651595   -14.661081
-507.408387  -176.287753   -2917.100

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.996332   648.270478   31.330781
616.726329    18.645982   821.911187
 0.25000   21.996332   668.578714   31.330781
616.726329    20.870662   802.959836
 0.50000   21.996332   689.386247   31.330781
616.726329    23.148963   827.745868
 0.75000   21.996332   710.544662   31.330781
616.726329    25.524662   852.531907
 1.00000   21.996332   731.562023   31.330781
616.726329    28.254833   877.357674

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -18.481543   -77.173677   -13.222868
-600.696574   -63.493771   -2719.609
 0.25000  -18.481543   -69.315089   -13.222868
-600.696574   -76.365221   -2843.025
 0.50000  -18.481543   -69.315089   -13.222868
-600.696574   -90.279228   -2967.455
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                641

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000  -18.481543   -69.315089   -13.222868
-600.696574  -104.515214   -3092.072
 1.00000  -18.481543   -69.315089   -13.222868
-600.696574  -125.013045   -3217.035

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   22.554511   570.128378   29.246396
627.306471    36.048121   852.012912
 0.25000   22.554511   587.060140   29.246396
627.306471    52.129062   837.856920
 0.50000   22.554511   604.408093   29.246396
627.306471    71.749293   860.242593
 0.75000   22.554511   622.048470   29.246396
627.306471    92.707335   882.592336
 1.00000   22.554511   639.572128   29.246396
627.306471   114.173824   904.979226

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -21.424322   -94.771206   -33.423828
-647.893673   -53.455192   -2568.955
 0.25000  -21.424322   -88.198327   -33.423828
-647.893673   -64.383661   -2654.173
 0.50000  -21.424322   -88.198327   -33.423828
-647.893673   -76.224371   -2740.734
 0.75000  -21.424322   -88.198327   -33.423828
-647.893673   -88.430341   -2828.147
 1.00000  -21.424322   -88.198327   -33.423828
-647.893673  -107.176774   -2916.405

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.205358   163.495065   45.071636
76.970984    6.416900    289.643693
 0.25000   11.205358   163.505056   45.071636
76.943708    6.458254    298.041854
 0.50000   11.205358   163.515211   45.071636
76.919357    6.546425    306.455384
 0.75000   11.205358   163.525443   45.071636
76.902740    6.641128    314.882917
 1.00000   11.205358   163.535548   45.071636
76.903740    6.738897    323.282459

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.398228   -22.628798   -0.391921
-212.204871   -28.780641   -910.031185
 0.25000   -3.398228   -22.619224   -0.391921
-212.229522   -67.584347   -929.926621
 0.50000   -3.398228   -22.610357   -0.391921
-212.258812  -106.731119   -949.971974
 0.75000   -3.398228   -22.604479   -0.391921
-212.288529  -145.941295   -970.383298
 1.00000   -3.398228   -22.601640   -0.391921
-212.318861  -185.215211   -990.794709

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.291493   224.740173   33.794969
203.970677    20.326714    530.665360
 0.25000   10.291493   224.750164   33.794969
203.943402    34.651819    543.417273
 0.50000   10.291493   224.760320   33.794969
203.919051    49.625355    556.189837
 0.75000   10.291493   224.770551   33.794969
203.903434    64.727657    568.967973
 1.00000   10.291493   224.780657   33.794969
203.903434    79.909333    581.751660

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.603304   -58.846392   -17.980993
-379.365776   -24.657643   -1467.312
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                642

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -8.603304   -58.836817   -17.980993
-379.390428   -51.329338   -1472.880
 0.50000   -8.603304   -58.827951   -17.980993
-379.419718   -79.224283   -1479.185
 0.75000   -8.603304   -58.822073   -17.980993
-379.449435  -107.437942   -1486.173
 1.00000   -8.603304   -58.819234   -17.980993
-379.479767  -135.715123   -1493.613

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   18.166067   520.717832   46.795019
450.464699    24.059690    781.802983
 0.25000   18.166067   537.901067   46.795019
450.069023    36.375940    771.574221
```

0.50000 18.166067 555.439077 46.795019
450.069023 49.304098 793.237839
0.75000 18.166067 573.193859 46.795019
450.069023 62.377542 814.906494
1.00000 18.166067 590.779727 46.795019
450.069023 77.161269 836.597985

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.318356	-97.138556	-22.030392
-525.522537	-52.720730	-2413.533	
0.25000	-17.318394	-85.956893	-22.030392
-525.522537	-76.769859	-2490.160	
0.50000	-17.318394	-76.526820	-22.030392
-525.522537	-114.404840	-2567.416	
0.75000	-17.318394	-74.644826	-22.030392
-525.522537	-153.063997	-2645.753	
1.00000	-17.318394	-74.644826	-22.030392
-533.707198	-192.110598	-2724.623	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.835229	459.078938	43.294391
490.888403	38.350440	812.590725	
0.25000	19.835229	473.391468	43.294391
490.558829	48.186589	805.045691	
0.50000	19.835229	487.999504	43.294391
490.558829	60.301075	824.664115	
0.75000	19.835229	502.780096	43.294391
490.558829	74.304022	843.085843	
1.00000	19.835229	517.435995	43.294391
490.558829	91.047454	862.138060	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.855651	-108.759781	-25.034825
-591.384148	-44.225449	-2266.233	
0.25000	-18.855651	-99.446175	-25.034825
-591.384148	-64.386969	-2311.193	
0.50000	-18.855651	-91.591529	-25.034825
-591.384148	-95.845411	-2357.289	
0.75000	-18.855651	-90.023950	-25.034825
-591.384148	-129.341227	-2404.757	
1.00000	-18.855651	-90.023950	-25.034825
-598.201445	-164.874517	-2453.681	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.679428	36.449361	8.233848
177.549106	28.631626	241.785001	
0.25000	7.679428	36.459357	8.233848
177.521417	25.275347	242.708109	
0.50000	7.679428	36.469517	8.233848
177.497025	22.154499	243.646572	
0.75000	7.679428	36.479753	8.233848
177.481174	19.135884	244.622509	
1.00000	7.679428	36.489863	8.233848
177.481174	16.350649	245.617457	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
643

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.914658	-41.159003	-3.736713
-239.404339	-3.487210	-357.685897	
0.25000	-7.914658	-41.149422	-3.736713
-239.429411	-5.502215	-328.751081	
0.50000	-7.914658	-41.140521	-3.736713
-239.458747	-7.933393	-300.741890	
0.75000	-7.914658	-41.134537	-3.736713
-239.488508	-10.708108	-273.996642	
1.00000	-7.914658	-41.131762	-3.736713
-239.518942	-13.702638	-248.357642	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.060669	83.889597	11.725839
303.808288	52.948098	449.228219	
0.25000	12.060669	83.899588	11.725839
303.781013	76.464249	453.220377	
0.50000	12.060669	83.909743	11.725839
303.756662	101.605406	457.234338	
0.75000	12.060669	83.919974	11.725839
303.741045	127.488505	461.276323	
1.00000	12.060669	83.930080	11.725839
303.741045	153.944756	465.367420	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.727801	-78.495209	-36.390552
-405.953654	-2.840683	-794.037616	
0.25000	-16.727801	-78.485635	-36.390552
-405.978305	-13.063285	-748.338774	
0.50000	-16.727801	-78.476768	-36.390552
-406.007596	-4.397208	-704.241897	
0.75000	-16.727801	-78.470890	-36.390552
-406.037313	-9.810638	-661.999567	
1.00000	-16.727801	-78.468051	-36.390552
-406.067645	-17.291046	-621.682644	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.178887	177.940152	18.895817
345.119697	45.803132	645.803776	
0.25000	12.178887	177.949145	18.895817
345.095149	54.626021	655.726907	
0.50000	12.178887	177.958284	18.895817
345.073234	64.935979	665.668283	
0.75000	12.178887	177.967492	18.895817
345.059178	75.917571	675.631623	
1.00000	12.178887	177.976598	18.895817
345.059178	87.445320	685.640266	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.784543	-88.471997	-18.819761
-516.951017	-10.466014	-1416.032	
0.25000	-13.784543	-88.463380	-18.819761
-516.973204	-17.143984	-1381.278	
0.50000	-13.784543	-88.455400	-18.819761
-516.999565	-25.645090	-1348.124	
0.75000	-13.784543	-88.450110	-18.819761
-517.026310	-37.835981	-1316.717	
1.00000	-13.784543	-88.447554	-18.819761
-517.053609	-52.025170	-1286.980	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.024698	372.140463	50.594780
456.559871	42.652169	778.093292	
0.25000	19.024698	382.267001	50.594780
435.369764	49.814956	777.114530	
0.50000	19.024698	392.580452	50.594780
421.522722	57.964417	793.272953	
0.75000	19.024698	402.995655	50.594780
421.522722	66.688917	809.449586	
1.00000	19.024698	413.297105	50.594780
421.522722	75.894556	825.669391	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
644

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.813030	-112.271865	-17.852776
-577.584826	-37.914710	-2018.605	
0.25000	-17.813030	-102.755054	-17.852776
-577.584826	-70.586674	-2034.246	
0.50000	-17.813030	-96.762282	-17.852776
-590.577918	-107.460282	-2051.265	
0.75000	-17.813030	-91.683071	-17.852776
-611.130270	-147.648308	-2069.688	
1.00000	-17.813030	-91.683071	-17.852776
-630.487251	-189.466796	-2089.574	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.188798	559.057731	5.820159
649.381758	23.202164	883.341937	
0.25000	18.188798	578.594035	5.820159
655.407698	31.093853	830.358532	
0.50000	18.188798	598.622389	5.820159
661.433638	45.840372	783.820029	
0.75000	18.188798	618.936089	5.820159
667.227358	70.409025	792.690451	
1.00000	18.188798	639.220037	5.820159
672.260020	101.924829	828.567071	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-35.539780	-66.231770	-39.181367
-446.881132	-64.788645	-2946.938	
0.25000	-35.539780	-58.327258	-39.181367
-446.881132	-40.055135	-3318.457	
0.50000	-35.539780	-52.815006	-39.181367
-446.881132	-20.762786	-3715.143	
0.75000	-35.539780	-52.461794	-39.181367
-446.648911	-12.062052	-4138.801	
1.00000	-35.539780	-52.437248	-39.181367
-445.655633	-14.449414	-4589.840	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	40.085523	815.878221	58.107910
764.324838	29.224165	1464.208	
0.25000	40.085523	839.273631	58.107910
766.644039	29.282397	1389.016	
0.50000	40.085523	863.283391	58.107910
768.963327	32.246049	1345.931	
0.75000	40.085523	887.659980	58.107910
771.282615	43.958127	1366.147	
1.00000	40.085523	912.136858	58.107910
773.481517	61.390035	1426.798	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-40.540186	-116.804795	-32.549164
-657.098619	-152.183859	-4679.428	
0.25000	-40.540186	-106.328190	-32.549164
-657.098619	-147.673076	-5208.723	
0.50000	-40.540186	-96.442069	-32.549164
-657.098619	-171.077725	-5774.205	
0.75000	-40.540186	-93.094237	-32.549164
-657.098619	-203.226729	-6379.389	
1.00000	-40.540186	-92.919749	-32.549164
-656.978336	-244.012073	-7020.037	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	35.810093	831.599693	47.087674
796.633053	35.352488	1768.756	
0.25000	35.810093	853.048905	47.087674
798.310311	35.410436	1721.504	
0.50000	35.810093	875.061471	47.087674
799.987632	39.847030	1701.584	
0.75000	35.810093	897.416945	47.087674
801.664953	52.054986	1739.013	
1.00000	35.810093	919.865419	47.087674
803.275005	68.516213	1814.420	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
645

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-38.225085	-152.445520	-31.801187
-760.094689	-108.598493	-5349.237	
0.25000	-38.225085	-142.747133	-31.801187
-760.094689	-121.269249	-5883.372	
0.50000	-38.225085	-133.597205	-31.801187
-760.094689	-137.462427	-6453.360	
0.75000	-38.225085	-130.045328	-31.801187
-760.094689	-161.308630	-7060.488	
1.00000	-38.225085	-129.866848	-31.801187
-760.027506	-192.167204	-7700.629	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	35.258215	730.277740	43.336511
814.209558	68.736737	1766.115	
0.25000	35.258215	748.157168	43.336511
815.607629	86.140443	1736.669	
0.50000	35.258215	766.505643	43.336511
817.005753	107.836306	1731.292	
0.75000	35.258215	785.139947	43.336511
818.403876	137.204286	1774.762	
1.00000	35.258215	803.851771	43.336511
819.745928	171.133766	1851.170	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-42.309825	-174.994634	-50.923358
-815.749048	-91.277456	-4948.188	
0.25000	-42.309825	-166.910488	-50.923358
-815.749048	-102.238503	-5394.721	
0.50000	-42.309825	-159.283607	-50.923358
-815.749048	-116.023677	-5872.696	
0.75000	-42.309825	-156.322955	-50.923358
-815.749048	-136.847243	-6383.120	
1.00000	-42.309825	-156.174184	-50.923358
-815.693048	-164.498041	-6922.607	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.583532	216.198730	59.441179
87.271137	10.564933	587.556711	
0.25000	22.583532	216.205245	59.441179
87.256506	10.386636	582.626819	
0.50000	22.583532	216.211971	59.441179
87.242685	10.248804	600.007149	
0.75000	22.583532	216.218624	59.441179
87.229785	10.186620	626.255730	
1.00000	22.583532	216.225740	59.441179
87.217980	10.211954	654.745111	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.395649	-44.190783	-0.377749
-221.446454	-54.466371	-1722.432	
0.25000	-4.395649	-44.186304	-0.377749
-221.459668	-105.969516	-1859.301	
0.50000	-4.395649	-44.182100	-0.377749
-221.473616	-157.503949	-2005.881	
0.75000	-4.395649	-44.178235	-0.377749
-221.488089	-209.110050	-2162.071	
1.00000	-4.395649	-44.174758	-0.377749
-221.502927	-260.807362	-2321.668	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.422169	293.556131	46.255505
243.425886	36.721767	1583.924	
0.25000	20.422169	293.562646	46.255505
243.411249	52.550325	1053.598	
0.50000	20.422169	293.569373	46.255505
243.397423	68.725441	1090.699	
0.75000	20.422169	293.576226	46.255505
243.384518	84.980863	1137.197	
1.00000	20.422169	293.583143	46.255505
243.372709	101.552920	1187.911	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
646

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.299634	-103.915765	-19.879363
-424.017088	-41.131937	-2732.408	
0.25000	-12.299634	-103.911285	-19.879363
-424.030307	-79.337818	-2901.930	
0.50000	-12.299634	-103.907080	-19.879363
-424.044261	-118.135774	-3083.231	
0.75000	-12.299634	-103.903213	-19.879363
-424.058742	-157.167462	-3275.708	
1.00000	-12.299634	-103.899736	-19.879363
-424.073586	-196.565103	-3473.184	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	32.261627	659.961747	58.603732
590.719236	43.433783	1634.638	
0.25000	32.261627	677.980615	58.603732
574.325001	55.600809	1619.905	
0.50000	32.261627	696.542858	58.603732
568.753089	68.762895	1621.877	
0.75000	32.261627	715.414918	58.603732
564.655488	83.027175	1648.851	
1.00000	32.261627	734.406215	58.603732
562.000092	99.621404	1717.563	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.352184	-167.955050	-26.729025
-635.826240	-93.669061	-4689.720	
0.25000	-28.352184	-157.763751	-26.729025
-637.275386	-129.736376	-5077.897	
0.50000	-28.352184	-148.157745	-26.729025
-640.203861	-172.460869	-5508.078	
0.75000	-28.352184	-139.329191	-26.729025
-644.606945	-216.421148	-5973.111	
1.00000	-28.352184	-133.858078	-26.729025
-669.228924	-262.156710	-6463.272	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	34.166122	584.076992	54.854588
653.161770	71.358569	1654.617	
0.25000	34.166122	599.088000	54.854588
639.504439	82.737228	1649.443	
0.50000	34.166122	614.551688	54.854588
634.862385	95.955165	1659.321	
0.75000	34.166122	630.279476	54.854588
631.468786	111.985255	1690.605	
1.00000	34.166122	646.094597	54.854588
629.236650	131.719214	1758.058	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-30.452258	-184.985836	-31.425115
-731.692372	-78.304944	-4322.486	
0.25000	-30.452258	-176.495748	-31.425115
-732.899615	-108.012356	-4643.720	
0.50000	-30.452258	-168.493251	-31.425115
735.339246	-144.273445	-5001.547	
0.75000	-30.452258	-161.138429	-31.425115
-739.007333	-181.832729	-5389.499	
1.00000	-30.452258	-156.580597	-31.425115
-759.519219	-223.441373	-5799.795	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.186373	51.803920	15.943348
249.532417	50.966318	446.446194	
0.25000	15.186373	51.810436	15.943348
249.517765	42.589501	453.718142	
0.50000	15.186373	51.817164	15.943348
249.503922	36.071887	463.129507	
0.75000	15.186373	51.824018	15.943348
249.491004	32.658172	474.402214	
1.00000	15.186373	51.830936	15.943348
249.479181	32.013782	487.700586	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
647

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.893774	-66.056696	-6.133377
-320.606725	-4.021076	-572.972585	
0.25000	-9.893774	-66.052443	-6.133377
-320.619963	-4.755004	-567.367937	
0.50000	-9.893774	-66.048235	-6.133377
-320.633936	-7.554869	-564.553713	
0.75000	-9.893774	-66.044366	-6.133377
-320.648436	-13.472375	-564.232812	
1.00000	-9.893774	-66.040886	-6.133377
-320.663300	-22.125780	-566.487832	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.508662	110.819677	18.242698
414.779298	96.888118	824.462341	
0.25000	19.508662	110.826191	18.242698
414.764689	119.328511	846.269168	
0.50000	19.508662	110.832916	18.242698
414.750888	143.981040	872.658339	
0.75000	19.508662	110.839768	18.242698
414.738008	171.943186	902.527961	
1.00000	19.508662	110.846682	18.242698
414.726220	203.077410	935.441557	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.084296	-125.773257	-43.064196
-523.440807	-4.678024	-1341.151	
0.25000	-24.084296	-125.768782	-43.064196
-523.453996	-4.332891	-1346.765	
0.50000	-24.084296	-125.764582	-43.064196
-523.467919	-6.061810	-1358.148	
0.75000	-24.084296	-125.760720	-43.064196
-523.482367	-12.546273	-1374.110	
1.00000	-24.084296	-125.757247	-43.064196
-523.497179	-22.940345	-1393.930	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	24.357425	234.825752	33.493743
442.037128	84.261186	1208.123	
0.25000	24.357425	234.896104	33.493743
441.879294	94.039728	1241.449	
0.50000	24.357425	234.968742	33.493743
441.730191	105.740740	1283.112	
0.75000	24.357425	235.042743	33.493743
441.591030	120.382182	1330.753	
1.00000	24.357425	235.117424	33.493743
441.463676	137.715281	1381.872	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.444472	-148.425048	-26.267254
-630.893863	-18.326294	-2510.632	
0.25000	-19.444472	-148.376710	-26.267254
-631.036369	-32.910341	-2609.816	
0.50000	-19.444472	-148.331336	-26.267254
-631.186802	-50.106992	-2718.877	
0.75000	-19.444472	-148.289616	-26.267254
-631.342911	-71.554334	-2835.961	
1.00000	-19.444472	-148.252098	-26.267254
-631.502951	-96.212731	-2957.223	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	37.451257	475.674995	66.950446
601.921566	78.843968	1557.691	
0.25000	37.451257	486.281948	66.950446
581.596035	85.540851	1563.598	
0.50000	37.451257	497.214911	66.950446
562.328715	94.183088	1584.854	
0.75000	37.451257	508.350810	66.950446
547.994403	105.671701	1616.740	
1.00000	37.451257	519.567877	66.950446
545.569194	119.819722	1678.353	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
648

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.904020	-182.999034	-24.664657
-713.394001	-70.182516	-3802.467	
0.25000	-25.904020	-176.305950	-24.664657
-727.511295	-113.022052	-4050.997	
0.50000	-25.904020	-170.022572	-24.664657
-746.153739	-158.805805	-4318.611	
0.75000	-25.904020	-164.240133	-24.664657
-765.596304	-208.505735	-4605.251	
1.00000	-25.904020	-159.058662	-24.664657
-785.574738	-261.303802	-4913.008	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.107258	648.270478	50.594780
627.306471	52.948098	852.012912	
0.25000	26.107258	668.578714	50.594780
627.306471	76.464249	837.896920	
0.50000	26.107258	689.386247	50.594780
627.306471	101.605406	860.242593	
0.75000	26.107258	710.544662	50.594780
627.306471	127.488505	882.592336	
1.00000	26.107258	731.562023	50.594780
627.306471	153.944756	904.979226	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.424322	-112.271865	-36.390552
-647.893673	-72.847457	-2719.609	
0.25000	-21.424322	-102.755054	-36.390552
-647.893673	-96.412912	-2843.025	
0.50000	-21.424322	-96.762282	-36.390552
-647.893673	-120.277031	-2967.455	
0.75000	-21.424322	-91.683071	-36.390552
-647.893673	-153.063997	-3092.072	
1.00000	-21.424322	-91.683071	-36.390552
-647.893673	-192.110598	-3217.035	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	40.085523	831.599053	66.950446
814.209558	96.888118	1768.756	
0.25000	40.085523	853.048905	66.950446
815.607629	119.328511	1736.669	
0.50000	40.085523	875.061471	66.950446
817.005753	143.981040	1731.292	
0.75000	40.085523	897.416945	66.950446
818.403876	171.943186	1774.762	
1.00000	40.085523	919.865419	66.950446
819.745928	203.077410	1851.170	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-42.309825	-184.985836	-50.923358
-815.749048	-127.183859	-5349.237	
0.25000	-42.309825	-176.495748	-50.923358
-815.749048	-147.673076	-5883.372	
0.50000	-42.309825	-170.022572	-50.923358
-815.749048	-172.460869	-6453.360	
0.75000	-42.309825	-164.240133	-50.923358
-815.749048	-216.421148	-7060.488	
1.00000	-42.309825	-159.058662	-50.923358
-815.693048	-262.156710	-7700.629	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	40.085523	831.599053	66.950446
814.209558	96.888118	1768.756	
0.25000	40.085523	853.048905	66.950446
815.607629	119.328511	1736.669	
0.50000	40.085523	875.061471	66.950446
817.005753	143.981040	1731.292	
0.75000	40.085523	897.416945	66.950446
818.403876	171.943186	1774.762	
1.00000	40.085523	919.865419	66.950446
819.745928	203.077410	1851.170	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
649

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

```
 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   -42.309825 -184.985836  -50.923358
-815.749048 -127.183859   -5349.237
 0.25000   -42.309825 -176.495748  -50.923358
-815.749048 -147.673076   -5883.372
 0.50000   -42.309825 -170.022572  -50.923358
-815.749048 -172.460869   -6453.360
 0.75000   -42.309825 -164.240133  -50.923358
-815.749048 -216.421148   -7060.488
 1.00000   -42.309825 -159.058662  -50.923358
-815.693048 -262.156710   -7700.629

 COMB  DESIGN ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   40.085523  831.599053   66.950446
814.209558   96.888118   1764.756
 0.25000   40.085523  853.048905   66.950446
815.607629  119.328511   1736.669
 0.50000   40.085523  875.061471   66.950446
817.005753  143.981040   1731.292
 0.75000   40.085523  897.416945   66.950446
818.403876  171.943186   1774.762
 1.00000   40.085523  919.865419   66.950446
819.745928  203.077410   1851.170

 COMB  DESIGN ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -42.309825 -184.985836  -50.923358
-815.749048 -127.183859   -5349.237
 0.25000  -42.309825 -176.495748  -50.923358
-815.749048 -147.673076   -5883.372
 0.50000  -42.309825 -170.022572  -50.923358
-815.749048 -172.460869   -6453.360
 0.75000  -42.309825 -164.240133  -50.923358
-815.749048 -216.421148   -7060.488
 1.00000  -42.309825 -159.058662  -50.923358
-815.693048 -262.156710   -7700.629

 ELEM       32 ================== LENGTH
=     3.491035

 COMB DB-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   13.270271   32.549255   19.065846
319.392460   70.014354  400.230471
 0.25000   13.270271   32.549255   19.065846
319.392460   54.329601  371.843365
 0.50000   13.270271   32.549255   19.065846
319.392460   40.716741  343.456259
 0.75000   13.270271   32.549255   19.065846
319.392460   27.680161  315.072521
 1.00000   13.270271   32.549255   19.065846
319.392460   15.433860  385.463926

 COMB DB-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -12.544226 -509.437839   -3.188439
-494.729025   -9.856787   -1892.799
 0.25000  -12.544226 -491.286286   -3.188439
-494.729025   -7.113120   -1765.403
 0.50000  -12.544226 -473.028837   -3.188439
-494.729025  -12.639960   -1656.329
 0.75000  -12.544226 -455.117570   -3.188439
-494.729025  -11.257416   -1547.783
 1.00000  -12.544226 -437.672151   -3.188439
-494.729025  -32.198548   -1439.238

 COMB DB-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   25.214596   56.642386   17.222570
503.804221   29.173639  691.317157
 0.25000   25.214596   56.642386   17.222570
503.804221   21.547810  642.193995
 0.50000   25.214596   56.642386   17.222570
503.804221   17.461747  593.070833
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                650

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T         M2         M3
 0.75000   25.214596   56.642386   17.222570
503.804221   14.568191  543.987635
 1.00000   25.214596   58.866857   17.222570
503.804221   12.608183  621.474456

 COMB DB-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -17.467809 -728.473078  -43.306226
-573.690319 -174.597395   -2915.260
 0.25000  -17.467809 -705.687875  -43.306226
-573.690319 -140.146408   -2738.842
 0.50000  -17.467809 -682.739582  -43.306226
-573.690319 -113.786947   -2597.375
 0.75000  -17.467809 -660.173351  -43.306226
-573.690319  -87.524040   -2455.924
 1.00000  -17.467809 -638.151055  -43.306226
-573.690319  -65.017370   -2314.601

 COMB DB-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   21.162296   75.799557   15.364026
596.535501   26.903994  877.145187
 0.25000   21.162296   75.799557   15.364026
596.535501   19.420607  814.706363
 0.50000   21.162296   75.799557   15.364026
596.535501   16.700575   752.267539
 0.75000   21.162296   75.799557   15.364026
596.535501   15.169118   689.999436
 1.00000   21.162296   78.560658   15.364026
596.535501   14.239201   757.405099

 COMB DB-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -16.837373 -733.203477  -30.999448
-612.607780 -122.543253   -3215.940
 0.25000  -16.837373 -712.280773  -30.999448
-612.607780  -99.324483   -3044.644
 0.50000  -16.837373 -691.213881  -30.999448
-612.607780  -83.102541   -2922.083
 0.75000  -16.837373 -670.493794  -30.999448
-612.607780  -67.196151   -2799.968
 1.00000  -16.837373 -650.269938  -30.999448
-612.607780  -55.763939   -2678.230

 COMB DB-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   21.637143   93.964465   35.390127
643.285193  113.122918  904.927467
 0.25000   21.637143   93.964465   35.390127
643.285193   87.382886  840.410751
 0.50000   21.637143   93.964465   35.390127
643.285193   66.104363  775.894036
 0.75000   21.637143   93.964465   35.390127
643.285193   47.300251  714.400955
 1.00000   21.637143   96.287823   35.390127
643.285193   33.149378  769.545350

 COMB DB-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -19.890003 -641.653376  -28.567372
-622.565580 -104.979354   -2916.068
 0.25000  -19.890003 -624.208603  -28.567372
-622.565580  -84.439774   -2776.112
 0.50000  -19.890003 -606.644500  -28.567372
-622.565580  -70.482736   -2690.779
 0.75000  -19.890003 -589.369422  -28.567372
-622.565580  -57.065521   -2606.519
 1.00000  -19.890003 -572.507974  -28.567372
-622.565580  -47.310273   -2523.152

 COMB DB-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   11.256423   26.557873    0.479388
213.066847    6.455318  323.249761
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                651

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T         M2         M3
 0.25000   11.256423   26.558589    0.479388
213.036465    6.169421  300.189109
 0.50000   11.256423   26.564660    0.479388
213.006802    5.888488  277.128453
 0.75000   11.256423   26.573221    0.479388
212.977540    5.621184  254.098162
 1.00000   11.256423   26.582765    0.479388
212.952158    5.410743  245.526794

 COMB DB-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   -3.293950 -164.548781   -45.094811
-75.838996 -185.317516  -991.935881
 0.25000   -3.293950 -164.538696   -45.094811
-75.838996 -145.979454  -952.523870
 0.50000   -3.293950 -164.528483   -45.094811
-75.854324 -106.690540  -932.889710
 0.75000   -3.293950 -164.518344   -45.094811
-75.878650  -67.443930  -913.625636
 1.00000   -3.293950 -164.508365   -45.094811
-75.906233  -28.440008  -894.402345

 COMB DB-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   10.319063   60.759126   18.009373
378.928877   79.504020  581.814392
 0.25000   10.319063   60.759843   18.009373
378.898494   63.964624  540.246519
 0.50000   10.319063   60.765714   18.009373
378.868831   48.492977  498.678647
 0.75000   10.319063   60.774474   18.009373
378.839569   33.237693  458.249358
 1.00000   10.319063   60.784019   18.009373
378.814188   18.765973  446.863107

 COMB DB-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   -8.366085 -226.643470   -33.793698
-201.937738 -134.766629   -1495.245
 0.25000   -8.366085 -226.633385   -33.793698
-201.915738 -106.457310   -1451.184
 0.50000   -8.366085 -226.623172   -33.793698
-201.931066  -78.324719   -1445.426
 0.75000   -8.366085 -226.613033   -33.793698
-201.955393  -50.527095   -1440.610
 1.00000   -8.366085 -226.603053   -33.793698
-201.982976  -23.812415   -1436.433

 COMB DB-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   17.586443   79.920590   22.194745
532.155908   75.527492  836.504408
 0.25000   17.586443   79.920590   22.194745
522.324797   61.411808  776.875970
 0.50000   17.586443   79.920590   22.194745
522.324797   47.849878  717.247532
 0.75000   17.586443   87.246228   22.194745
522.324797   34.528392  658.620094
 1.00000   17.586443   98.321065   22.194745
522.324797   21.963660  706.980067

 COMB DB-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -16.240938 -592.819963   -47.251336
-446.413427 -191.139866   -2725.162
 0.25000  -16.240938 -575.293055   -47.251336
-446.413427 -151.024691   -2599.236
 0.50000  -16.240938 -557.593590   -47.251336
-446.413427 -112.114124   -2472.568
 0.75000  -16.240938 -540.107221   -47.251336
-446.413427  -74.347110   -2447.085
 1.00000  -16.240938 -522.970989   -47.251336
-446.758172  -47.191090   -2372.512
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                652

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   18.968465   94.734519   25.573824
595.731025   89.749691  862.208602
 0.25000   18.968465   94.734519   25.573824
587.542341   72.386971  800.650895
 0.50000   18.968465   94.734519   25.573824
587.542341   58.200886  739.093187
 0.75000   18.968465  100.836302   25.573824
587.542341   46.572813  682.228421
 1.00000   18.968465  110.060932   25.573824
587.542341   37.649284  722.104739

 COMB DB-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -17.635248 -519.878940   -43.333585
-485.843535 -163.787988   -2454.869
 0.25000  -17.635248 -505.280151   -43.333585
-485.843535 -127.675536   -2353.867
 0.50000  -17.635248 -490.537634   -43.333585
-485.843535  -93.954476   -2308.082
 0.75000  -17.635248 -475.972612   -43.333585
-485.843535  -62.408054   -2263.797
 1.00000  -17.635248 -461.699232   -43.333585
-486.130685  -39.781016   -2220.830

 COMB DB-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000    6.982052   41.563173    3.253913
237.736794   17.036178  245.862178
 0.25000    6.982052   41.563925    3.253913
237.706310   16.079472  228.175735
 0.50000    6.982052   41.569802    3.253913
237.676602   20.560200  210.489292
 0.75000    6.982052   41.578596    3.253913
237.647295   25.181404  199.568381
 1.00000    6.982052   41.588148    3.253913
237.621494   30.094812  199.427360

 COMB DB-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   -7.452195  -37.635619   -8.318613
-174.691498  -13.704451 -249.668369
 0.25000   -7.452195  -37.625530   -8.318613
-174.691498  -10.473540 -255.748128
 0.50000   -7.452195  -37.615312   -8.318613
-174.707059   -7.675397 -282.898198
 0.75000   -7.452195  -37.605168   -8.318613
-174.731427   -5.395148 -311.349767
 1.00000   -7.452195  -37.595184   -8.318613
-174.759422   -3.767317 -340.772009

 COMB DB-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   11.118676   79.402827   37.942754
403.105069  154.721627  465.723900
 0.25000   11.118676   79.403544   37.942754
403.074686  123.991521  432.285104
 0.50000   11.118676   79.409415   37.942754
403.045023   99.672804  398.846309
 0.75000   11.118676   79.418175   37.942754
403.015761   76.348006  374.482089
 1.00000   11.118676   79.427703   37.942754
402.990380   54.909873  372.065037

 COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -16.242605  -85.894643   -11.189377
-299.787470  -16.730250 -623.528395
 0.25000  -16.242605  -85.884558   -11.189377
-299.787470   -9.825967 -628.561686
 0.50000  -16.242605  -85.874345   -11.189377
-299.802798   -4.757361 -671.770233
 0.75000  -16.242605  -85.864206   -11.189377
-299.827124   -3.531048 -716.780169
 1.00000  -16.242605  -85.854227   -11.189377
-299.854707   -3.377795 -763.551185
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                653

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   11.488217   89.470934   20.098739
514.226986   87.789050  685.966944
 0.25000   11.488217   89.471578   20.098739
514.199642   72.119331  636.818788
 0.50000   11.488217   89.476863   20.098739
514.172945   62.458234  587.670632
 0.75000   11.488217   89.484747   20.098739
514.146610   53.502311  546.228724
 1.00000   11.488217   89.493337   20.098739
514.123766   45.874014  538.745406

 COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -13.175106 -180.563219   -18.880279
-340.793143  -50.752941   -1289.454
 0.25000  -13.175106 -180.554142   -18.880279
-340.793143  -37.239144   -1271.084
 0.50000  -13.175106 -180.544950   -18.880279
-340.806939  -25.169323   -1303.842
 0.75000  -13.175106 -180.535825   -18.880279
-340.828832   -16.935699   -1338.604
 1.00000  -13.175106 -180.526844   -18.880279
-340.853657   -10.176194   -1374.950

 COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   18.162325   95.553875   18.826521
628.247800   76.037063  825.844188
 0.25000   18.162325   95.553875   18.826521
609.008378   63.415134  766.809320
 0.50000   18.162325   98.388423   18.826521
588.563539   55.493655  707.774452
 0.75000   18.162325  104.306067   18.826521
574.388462   49.751911  658.310272
 1.00000   18.162325  113.790220   18.826521
574.388462   42.354196  678.478772

 COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -16.807197 -415.966557   -50.723002
-416.716327 -188.371246   -2091.676
 0.25000  -16.807197 -405.692750   -50.723002
-416.716327 -146.475641   -2019.084
 0.50000  -16.807197 -395.302955   -50.723002
-416.716327 -110.913099   -2002.348
 0.75000  -16.807197 -385.012674   -50.723002
-430.420939  -69.503259   -1987.227
 1.00000  -16.807197 -374.905904   -50.723002
-451.583139   -35.040902   -1973.460

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   17.201417   57.277346   38.846244
445.267601  100.901700  828.126406
 0.25000   17.201417   57.296432   38.846244
446.255796   68.850714  785.711436
 0.50000   17.201417   57.649407   38.846244
446.493882   43.064526  777.445853
 0.75000   17.201417   61.531351   38.846244
446.493882   28.937455  820.676035
 1.00000   17.201417   69.377724   38.846244
446.493882   20.700368  870.413650

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -32.171147 -635.673714   -5.076970
-661.407856  -12.633912   -4586.054
 0.25000  -32.171147 -615.435422   -5.076970
-656.371331  -10.062746   -4138.348
 0.50000  -32.171147 -595.161923   -5.076970
-650.584698  -16.865759   -3717.843
 0.75000  -32.171147 -575.170982   -5.076970
-644.559979  -36.423176   -3324.164
 1.00000  -32.171147 -555.666145   -5.076970
-638.535260  -61.323730   -2965.484
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                654

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   37.009619  100.694718   33.140642
659.391464   59.976846   1426.000
 0.25000   37.009619  100.869008   33.140642
659.511265   39.615185   1353.312
 0.50000   37.009619  102.280327   33.140642
659.511265   27.066942   1329.132
 0.75000   37.009619  112.114600   33.140642
659.511265   25.054408   1363.836
 1.00000   37.009619  122.529317   33.140642
659.511265   25.654476   1438.072

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -37.759144 -906.749538   -57.331217
-757.237994  -242.137676   -7019.851
 0.25000  -37.759144 -882.310405   -57.331217
-755.039076  -198.454204   -6384.264
 0.50000  -37.759144 -857.980215   -57.331217
-752.720258  -166.156067   -5783.790
 0.75000  -37.759144 -834.006846   -57.331217
-750.401440  -143.031634   -5222.616
 1.00000  -37.759144 -810.640475   -57.331217
-748.082704  -123.336425   -4697.558

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   32.977602  139.916931   32.320886
762.086037   66.706569  1813.887
 0.25000   32.977602  140.079094   32.320886
762.152922   46.989786  1721.751
 0.50000   32.977602  141.870208   32.320886
762.152922   34.613456  1674.899
 0.75000   32.977602  150.972969   32.320886
762.152922   31.154252  1681.549
 1.00000   32.977602  160.614778   32.320886
762.152922   31.090505  1724.527

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -35.483287 -913.015793   -46.302469
-787.042544 -189.899676   -7700.547
 0.25000  -35.483287 -890.600017   -46.302469
-785.432533 -156.035008   -7067.188
 0.50000  -35.483287 -868.289819   -46.302469
-783.755551  -132.312714   -6466.413
 0.75000  -35.483287 -846.384439   -46.302469
-782.078570  -116.583199   -5902.291
 1.00000  -35.483287 -824.885823   -46.302469
-780.401647  -104.778881   -5373.833

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   32.949584  167.281036   51.393320
814.001703  169.418260  1851.631
 0.25000   32.949584  167.431210   51.393320
814.057455  132.872261  1756.328
 0.50000   32.949584  168.909181   51.393320
814.057455  103.280096  1700.123
 0.75000   32.949584  176.496746   51.393320
814.057455   82.240952  1690.393
 1.00000   32.949584  184.533633   51.393320
814.057455   65.336459  1714.071

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -39.195269 -796.800497   -42.406215
-805.606779 -162.305134   -6922.403
 0.25000  -39.195269 -778.115928   -42.406215
-804.264762  -132.260608   -6389.825
 0.50000  -39.195269 -759.519363   -42.406215
-802.866921  -111.906838   -5886.018
 0.75000  -39.195269 -741.196883   -42.406215
-801.469081   -98.559326   -5414.306
 1.00000  -39.195269 -723.340158   -42.406215
-800.071290   -88.428321   -4973.845
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                655

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   20.336748   48.017390    0.503155
224.541390    9.949159  654.532362
 0.25000   20.336748   48.020854    0.503155
224.526581    9.831373  619.693769
 0.50000   20.336748   48.024716    0.503155
224.512127    9.787078  586.984593
 0.75000   20.336748   48.029309    0.503155
224.498200    9.736917  562.690450
 1.00000   20.336748   48.033377    0.503155
224.484945    9.824951  568.119780

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   -4.910738 -214.125098   -59.537408
-82.969513 -261.008904   -2325.516
 0.25000   -4.910738 -214.118182   -59.537408
-82.981255 -209.319098   -2168.008
 0.50000   -4.910738 -214.111327   -59.537408
-82.994087 -157.710293   -2011.518
 0.75000   -4.910738 -214.104599   -59.537408
-83.007873 -106.141099   -1868.671
 1.00000   -4.910738 -214.098083   -59.537408
-83.022477   -54.587072   -1733.454

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   18.643683  110.516841   19.891225
425.252063  100.948129  1188.444
 0.25000   18.643683  110.520305   19.891225
425.237247   84.283022   1124.933
 0.50000   18.643683  110.524168   19.891225
425.222787   67.851439   1065.383
 0.75000   18.643683  110.528362   19.891225
425.208854   51.468491   1015.579
 1.00000   18.643683  110.532831   19.891225
425.195592   35.442423   999.516608

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -11.917483 -289.385587   -46.120064
-237.854434 -196.044891   -3476.077
 0.25000  -11.917483 -289.378672   -46.120064
-237.866180 -156.913876   -3282.994
 0.50000  -11.917483 -289.371816   -46.120064
-237.879018 -118.047032   -3094.569
 0.75000  -11.917483 -289.365088   -46.120064
-237.892809  -79.385745   -2916.940
 1.00000  -11.917483 -289.358571   -46.120064
-237.907418  -41.408795   -2751.304

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   29.576154  143.778606   26.803109
672.046044   97.699163  1717.743
 0.25000   29.576154  147.744480   26.803109
646.351490   81.745329   1632.100
 0.50000   29.576154  156.532353   26.803109
641.788887   67.575959   1593.686
 0.75000   29.576154  166.100756   26.803109
638.822402   54.235191   1577.999
 1.00000   29.576154  176.256077   26.803109
637.316734   41.517477   1587.260

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -26.904782 -728.200179   -58.411230
-548.934698 -260.789971   -6465.673
 0.25000  -26.904782 -709.211772   -58.411230
-551.567307 -215.782175   -5981.641
 0.50000  -26.904782 -690.361865   -58.411230
-555.632867 -172.401440   -5522.380
 0.75000  -26.904782 -671.814889   -58.411230
```

```
-561.165346 -130.002426   -5090.732
 1.00000   -26.904782 -653.795544   -58.411230
-577.572571   -92.078354   -4706.371
Program   SAP2000   Nonlinear   Version   7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                     656

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   31.603046   167.606319   31.685812
757.733003   129.780788   1758.563
0.25000   31.603046   170.910178   31.685812
736.327585   110.248214   1672.108
0.50000   31.603046   178.231110   31.685812
732.526607   94.489538   1626.064
0.75000   31.603046   186.202281   31.685812
730.055311   81.401068   1600.743
1.00000   31.603046   194.662396   31.685812
728.800981   69.796112   1599.134

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -28.839294 -639.596900   -54.523858
-617.887926 -221.876716   -5802.251
0.25000   -28.839294 -623.778186   -54.523858
-620.081080 -181.187477   -5398.214
0.50000   -28.839294 -608.074853   -54.523858
-623.467985 -143.588836   -5016.394
0.75000   -28.839294 -592.623884   -54.523858
-628.076940 -108.375157   -4658.628
1.00000   -28.839294 -577.612468   -54.523858
-641.745342   -77.064788   -4341.694

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   13.911492   70.224232   6.326834
313.992665   31.523795   488.196815
0.25000   13.911492   70.227704   6.326834
313.977834   30.886387   466.810402
0.50000   13.911492   70.231569   6.326834
313.963354   30.277643   447.547010
0.75000   13.911492   70.235767   6.326834
313.949401   42.276373   431.942022
1.00000   13.911492   70.240239   6.326834
313.936121   50.996649   421.097511

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -9.359593   -49.886473   -16.062718
-248.929535   -21.599971   -568.164713
0.25000   -9.359593   -49.879556   -16.062718
-248.941294   -13.111680   -567.199399
0.50000   -9.359593   -49.872700   -16.062718
-248.954145   -7.450509   -569.150386
0.75000   -9.359593   -49.865971   -16.062718
-248.967952   -4.876703   -573.531404
1.00000   -9.359593   -49.859453   -16.062718
-248.982578   -4.137812   -580.723087

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   18.602712   133.292408   44.003338
513.958935   202.446206   937.160258
0.25000   18.602712   133.295868   44.003338
513.944152   170.047732   890.295984
0.50000   18.602712   133.299727   44.003338
513.929728   142.843122   846.657515
0.75000   18.602712   133.303916   44.003338
513.915823   118.877861   808.903116
1.00000   18.602712   133.308380   44.003338
513.902592   96.745308   781.104048

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -22.484894 -107.217675   -18.180572
-413.104151   -21.944823   -1395.002
0.25000   -22.484894 -107.210761   -18.180572
-413.115875   -12.195379   -1376.341
0.50000   -22.484894 -107.203907   -18.180572
-413.128689   -6.150722   -1363.933
0.75000   -22.484894 -107.197180   -18.180572
-413.142454   -3.456101   -1365.101
1.00000   -22.484894 -107.190665   -18.180572
-413.157035   -5.018604   -1353.948
Program   SAP2000   Nonlinear   Version   7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                     657

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   22.667442   157.752675   27.162395
624.722613   136.789138   1383.094
0.25000   22.667442   157.790052   27.162395
624.562884   118.205457   1313.991
0.50000   22.667442   157.831735   27.162395
624.407035   104.185851   1248.309
0.75000   22.667442   157.876993   27.162395
624.256784   92.944552   1190.666
1.00000   22.667442   157.925214   27.162395
624.113826   83.343353   1149.454

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -18.515343 -229.889503   -33.659790
-437.609173   -95.044289   -2960.062
0.25000   -18.515343 -229.814828   -33.659790
-437.735841   -71.153760   -2843.838
0.50000   -18.515343 -229.740802   -33.659790
-437.874279   -50.370812   -2731.694
0.75000   -18.515343 -229.668150   -33.659790
-438.022997   -33.429525   -2627.209
1.00000   -18.515343 -229.597778   -33.659790
-438.180537   -18.766441   -2532.763

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   34.482590   168.969993   25.307058
782.199291   118.595737   1678.016
0.25000   34.482590   174.134642   25.307058
762.279976   103.525694   1597.807
0.50000   34.482590   179.903153   25.307058
742.887862   92.563134   1549.388
0.75000   34.482590   186.156405   25.307058
724.244731   84.261366   1512.023
1.00000   34.482590   192.833338   25.307058
709.228403   77.482609   1499.357

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -24.884802 -513.464880   -67.017457
-536.589299   -260.102773   -4917.158
0.25000   -24.884802 -502.248613   -67.017457
-538.976583   -208.147829   -4611.029
0.50000   -24.884802 -491.116020   -67.017457
-553.288831   -159.083047   -4330.073
0.75000   -24.884802 -480.186222   -67.017457
-572.496377 -113.567339   -4067.783
 1.00000   -24.884802 -469.579290   -67.017457
-592.763887   -70.112947   -3824.713

COMB DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   25.214596   95.553875   37.942754
643.285193   154.721127   904.927467
0.25000   25.214596   95.553875   37.942754
643.285193   123.991521   840.410751
0.50000   25.214596   98.388423   37.942754
643.285193   99.672804   775.894036
0.75000   25.214596   104.306067   37.942754
643.285193   76.348006   714.400955
1.00000   25.214596   113.790220   37.942754
643.285193   54.909873   769.545350

COMB DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -19.890003 -733.203477   -50.723002
-622.565580 -191.139866   -3215.940
0.25000 -19.890003 -712.280773   -50.723002
-622.565580 -151.024691   -3044.644
0.50000 -19.890003 -691.213881   -50.723002
-622.565580 -113.786947   -2922.083
0.75000 -19.890003 -670.493794   -50.723002
-622.565580   -87.524040   -2799.968
1.00000 -19.890003 -650.269938   -50.723002
-622.565580   -65.017370   -2678.330
Program   SAP2000   Nonlinear   Version   7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                     658

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   37.009619   168.969993   51.393320
814.001703   202.446206   1851.631
0.25000   37.009619   174.134642   51.393320
814.057455   170.047732   1756.328
0.50000   37.009619   179.903153   51.393320
814.057455   142.843122   1700.123
0.75000   37.009619   186.202281   51.393320
814.057455   118.877861   1690.393
1.00000   37.009619   194.662396   51.393320
814.057455   96.745308   1724.527

COMB DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -39.195269 -913.015793   -67.017457
-805.606779 -261.008904   -7700.547
0.25000 -39.195269 -890.600017   -67.017457
-804.264762 -215.782175   -7067.188
0.50000 -39.195269 -868.289819   -67.017457
-802.866921 -172.401440   -6466.413
0.75000 -39.195269 -846.308439   -67.017457
-801.469081 -143.031634   -5902.291
1.00000 -39.195269 -824.885823   -67.017457
-800.071290 -123.336425   -5373.833

COMB CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   37.009619   168.969993   51.393320
814.001703   202.446206   1851.631
0.25000   37.009619   174.134642   51.393320
814.057455   170.047732   1756.328
0.50000   37.009619   179.903153   51.393320
814.057455   142.843122   1700.123
0.75000   37.009619   186.202281   51.393320
814.057455   118.877861   1690.393
1.00000   37.009619   194.662396   51.393320
814.057455   96.745308   1724.527

COMB CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -39.195269 -913.015793   -67.017457
-805.606779 -261.008904   -7700.547
0.25000 -39.195269 -890.600017   -67.017457
-804.264762 -215.782175   -7067.188
0.50000 -39.195269 -868.289819   -67.017457
-802.866921 -172.401440   -6466.413
0.75000 -39.195269 -846.308439   -67.017457
-801.469081 -143.031634   -5902.291
1.00000 -39.195269 -824.885823   -67.017457
-800.071290 -123.336425   -5373.833

COMB DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   37.009619   168.969993   51.393320
814.001703   202.446206   1851.631
0.25000   37.009619   174.134642   51.393320
814.057455   170.047732   1756.328
0.50000   37.009619   179.903153   51.393320
814.057455   142.843122   1700.123
0.75000   37.009619   186.202281   51.393320
814.057455   118.877861   1690.393
1.00000   37.009619   194.662396   51.393320
814.057455   96.745308   1724.527

COMB DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -39.195269 -913.015793   -67.017457
-805.606779 -261.008904   -7700.547
0.25000 -39.195269 -890.600017   -67.017457
-804.264762 -215.782175   -7067.188
0.50000 -39.195269 -868.289819   -67.017457
-802.866921 -172.401440   -6466.413
0.75000 -39.195269 -846.308439   -67.017457
-801.469081 -143.031634   -5902.291
1.00000 -39.195269 -824.885823   -67.017457
-800.071290 -123.336425   -5373.833
Program   SAP2000   Nonlinear   Version   7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                     659

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      33 ================== LENGTH
=    4.987993

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   12.689819   30.761555   5.449504
179.502439   15.926606   385.783173
0.25000   12.689819   40.292367   5.449504
179.502439   14.019953   599.472208
0.50000   12.689819   61.092444   5.449504
179.502439   14.229947   833.730604
0.75000   12.689819   83.483996   5.449504
179.502439   16.056567   1038.693
1.00000   12.689819   106.039541   5.449504
179.502439   19.018943   1214.263

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -11.916318 -438.503412   -3.907848
-555.110752   -33.293204   -1440.065
0.25000 -11.916318 -413.263525   -3.907848
-555.110752   -36.882888   -1336.506
 0.50000 -11.916318 -387.350812   -3.907848
-555.110752   -40.794293   -1233.620
 0.75000 -11.916318 -362.263071   -3.907848
-555.110752   -44.856406   -1130.806
 1.00000 -11.916318 -338.536548   -3.907848
-555.110752   -49.034848   -1028.563

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   24.614157   53.787766   3.427433
316.026900   13.022969   621.779916
0.25000   24.614157   68.728572   3.427433
316.026900   15.485596   902.949101
0.50000   24.614157   95.063450   3.427433
316.026900   21.193443   1227.624
0.75000   24.614157   123.352104   3.427433
316.026900   40.414631   1559.606
1.00000   24.614157   152.621727   3.427433
316.026900   60.611014   1875.642

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -16.537739 -640.887310   -17.683326
-637.315935   -66.728001   -2315.571
0.25000   -16.537739 -608.594391   -17.683326
-637.315935   -56.765001   -2169.585
0.50000   -16.537739 -576.296659   -17.683326
-637.315935   -56.215022   -2023.887
0.75000   -16.537739 -544.953200   -17.683326
-637.315935   -57.292163   -1878.431
1.00000   -16.537739 -515.319737   -17.683326
-637.315935   -59.184229   -1733.494

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   20.687390   69.495935   3.184615
458.363902   14.373963   757.685948
0.25000   20.687390   83.431908   3.184615
458.363902   16.542705   1002.422
0.50000   20.687390   107.622114   3.184615
458.363902   20.596566   1278.338
0.75000   20.687390   133.602045   3.184615
458.363902   33.607315   1601.217
1.00000   20.687390   160.553378   3.184615
458.363902   48.427984   1964.897

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -15.964008 -665.540164   -13.283526
-602.029333   -56.573468   -2678.927
0.25000 -15.964008 -635.851483   -13.283526
-602.029333   -51.948511   -2538.643
0.50000 -15.964008 -606.222587   -13.283526
-602.029333   -52.424906   -2398.619
Program   SAP2000   Nonlinear   Version   7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                     660

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.75000 -15.964008 -577.502617   -13.283526
-602.029333   -53.735346   -2258.823
1.00000 -15.964008 -550.275093   -13.283526
-602.029333   -55.489324   -2119.762

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   21.116186   73.114393   9.902980
549.729299   33.175980   769.780690
0.25000   21.116186   84.739767   9.902980
549.729299   30.975363   970.829603
0.50000   21.116186   104.908298   9.902980
549.729299   32.081989   1197.792
0.75000   21.116186   126.568861   9.902980
549.729299   41.402218   1464.191
1.00000   21.116186   149.041416   9.902980
549.729299   52.682340   1767.297

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -19.071798 -593.606235   -11.406410
-563.130715   -43.946296   -2416.361
0.25000 -19.071798 -568.852601   -11.406410
-563.130715   -43.946296   -2416.361
0.50000 -19.071798 -544.150719   -11.406410
-563.130715   -51.643964   -2309.728
0.75000 -19.071798 -520.206521   -11.406410
-563.130715   -61.180347   -2203.814
1.00000 -19.071798 497.506504   -11.406410
-563.130715   -71.348496   -2099.005

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   11.341378   25.949024   0.415101
185.074475   5.091288   245.535542
0.25000   11.341378   25.959920   0.415101
185.031570   4.629598   260.004326
0.50000   11.341378   25.971994   0.415101
184.994489   5.528563   294.544951
0.75000   11.341378   25.984848   0.415101
184.961407   21.653621   417.612694
1.00000   11.341378   25.999675   0.415101
184.950436   37.849734   575.211751

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -3.000865 -157.470694   -13.193085
-50.684494   -28.764028 -894.411590
0.25000   -3.000865 -157.455269   -13.193085
-50.699469   -14.765577   -860.242194
0.50000   -3.000865 -157.441407   -13.193085
-50.730846   -10.331138   -826.128620
0.75000   -3.000865 -157.427899   -13.193085
-50.770675   -7.321698   -792.131466
1.00000   -3.000865 -157.415017   -13.193085
-50.816059   -5.398506   -758.185428

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   10.396321   47.722675   5.734478
389.787774   18.337870   446.878663
0.25000   10.396321   47.733571   5.734478
389.744868   13.722427   454.012850
0.50000   10.396321   47.745646   5.734478
389.707787   12.163390   479.828760
0.75000   10.396321   47.758500   5.734478
389.674705   20.774365   600.430590
1.00000   10.396321   47.773527   5.734478
389.663734   31.192165   809.914663

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -8.164587 -233.300492   -9.291977
-98.763031   -23.435843   -1436.174
Program   SAP2000   Nonlinear   Version   7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                     661

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.25000   -8.164587 -233.285058   -9.291977
-98.778006   -14.520355   -1402.257
0.50000   -8.164587 -233.271205   -9.291977
-98.809383   -15.917010   -1368.539
0.75000   -8.164587 -233.257698   -9.291977
-98.849212   -19.554361   -1335.026
1.00000   -8.164587 -233.244815   -9.291977
-98.894596   -24.044546   -1302.060

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   17.227403   67.153312   5.836539
456.138087   21.392537   707.085245
0.25000   17.227403   83.293335   5.836539
456.138087   17.086526   894.785302
0.50000   17.227403   103.902370   5.836539
456.138087   20.487809   1095.882
0.75000   17.227403   125.944468   5.836539
456.138087   35.102821   1347.529
1.00000   17.227403   150.216998   5.836539
456.138087   51.368001   1645.338

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -15.619154 -560.205699   -14.141440
-384.356839   -47.670836   -2372.783
0.25000 -15.619154 -534.405904   -14.141440
-384.356839   -40.679392   -2270.540
0.50000 -15.619154 -509.929080   -14.141440
-384.356839   -42.014567   -2168.509
0.75000 -15.619154 -486.144744   -14.141440
-407.503788   -45.306989   -2066.983
1.00000 -15.619154 -463.532259   -14.141440
-440.944371   -49.406365   -1965.964

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   18.560372   70.897872   8.598233
547.479123   36.955793   722.191017
0.25000   18.560372   84.341474   8.598233
547.479123   33.085409   876.296088
0.50000   18.560372   101.507477   8.598233
547.479123   35.475165   1041.523
0.75000   18.560372   119.867128   8.598233
547.479123   47.208743   1248.824
1.00000   18.560372   140.084586   8.598233
547.479123   60.358656   1494.730

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -16.911218 -498.820994   -12.234102
-391.407569   -40.157165   -2220.760
0.25000 -16.911218 -477.331431   -12.234102
-391.407569   -35.438262   -2148.645
0.50000 -16.911218 -456.943809   -12.234102
-391.407569   -40.987198   -2077.161
0.75000 -16.911218 -437.132985   -12.234102
-410.687490   -48.273219   -2006.633
1.00000 -16.911218 -418.298238   -12.234102
-438.541348   -56.310480   -1937.030

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   6.799490   24.358048   4.596886
254.978128   29.839184   199.422869
0.25000   6.799490   24.368950   4.596886
254.935150   30.299488   196.461212
0.50000   6.799490   24.381030   4.596886
254.898012   31.001986   193.517776
0.75000   6.799490   24.393891   4.596886
254.864595   31.815936   190.581879
1.00000   6.799490   24.408929   4.596886
254.853204   32.693994   188.148421
Program   SAP2000   Nonlinear   Version   7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                     662

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -7.161813   -45.055991   -1.469994
-115.928608   -3.612442   -340.306476
0.25000   -7.161813   -45.040557   -1.469994
-115.943787   -4.739233   -362.132874
0.50000   -7.161813   -45.026689   -1.469994
-115.957576   -6.647250   -384.852161
0.75000   -7.161813   -45.013917   -1.469994
-116.015464   -11.643052   -408.227039
1.00000   -7.161813   -45.000290   -1.469994
-116.060922   -16.305118   -432.416644

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   10.820355   42.857713   15.125998
449.316656   54.709794   372.064889
0.25000   10.820355   42.868609   15.125998
449.273750   46.913349   365.617973
0.50000   10.820355   42.880284   15.125998
449.236669   43.730426   359.935707
0.75000   10.820355   42.893538   15.125998
449.203587   42.758451   355.061148
1.00000   10.820355   42.908565   15.125998
449.192616   42.901578   375.258305

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -15.966311 -104.207162   -1.637887
-175.802465   -3.173898   -762.812691
0.25000 -15.966311 -104.191732   -1.637887
-175.817441   -5.722311   -789.738826
0.50000 -15.966311 -104.177875   -1.637887
-175.848817   -18.587697   -817.941815
0.75000 -15.966311 -104.164368   -1.637887
-175.888647   -34.825163   -847.214479
1.00000 -15.966311 -104.151485   -1.637887
-175.934030   -52.386110   -877.841281

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000   11.340029   60.224661   9.862005
564.390854   45.282964   538.753309
0.25000   11.340029   60.234468   9.862005
564.352238   41.755625   526.316890
0.50000   11.340029   60.245334   9.862005
564.318866   40.003837   515.101535
0.75000   11.340029   60.256903   9.862005
564.289092   41.178598   576.313931
1.00000   11.340029   60.270427   9.862005
564.279218   43.889587   707.021319

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000 -12.783185 -201.508413   -3.491375
-181.001036   -9.418073   -1374.203
0.25000 -12.783185 -201.494531   -3.491375
-181.014514   -10.604935   -1378.829
0.50000 -12.783185 -201.482054   -3.491375
-181.042753   -17.330615   -1384.604
0.75000 -12.783185 -201.469898   -3.491375
```

-181.078599 -26.066041 -1391.210
1.00000 -12.783185 -201.458303 -3.491375
-181.119445 -35.646079 -1399.252

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.073681 70.475092 8.431236
610.850403 41.666740 678.497074
0.25000 18.073681 80.953964 8.431236
585.903519 38.568098 784.018602
0.50000 18.073681 93.147488 8.431236
563.117145 40.085314 898.700657
0.75000 18.073681 106.156929 8.431236
563.117145 53.024026 1064.405
1.00000 18.073681 120.936602 8.431236
563.117145 67.866784 1277.263
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
663

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.161913 -410.428716 -13.731503
-301.757286 -34.992803 -1973.115
0.25000 -16.161913 -395.004112 -13.731503
-301.757286 -29.737764 -1928.133
0.50000 -16.161913 -380.771896 -13.731503
-322.872125 -33.123884 -1884.277
0.75000 -16.161913 -366.923121 -13.731503
-348.795548 -38.960233 -1841.127
1.00000 -16.161913 -353.735266 -13.731503
-373.094915 -45.985493 -1799.157

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.392625 65.547313 7.132681
275.454266 22.246850 870.576863
0.25000 16.392625 77.094077 7.132681
275.454266 21.043103 952.746506
0.50000 16.392625 90.185727 7.132681
275.454266 21.450677 1040.567
0.75000 16.392625 104.419319 7.132681
275.454266 23.443117 1127.889
1.00000 16.392625 119.382425 7.132681
275.454266 26.014479 1210.611

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -31.604382 -502.144398 -3.682434
-710.327509 -62.342630 -2954.366
0.25000 -31.604382 -475.567281 -3.682434
-701.719386 -60.202686 -2855.258
0.50000 -31.604382 -449.323212 -3.682434
-693.111263 -72.197025 -2199.006
0.75000 -31.604382 -423.851484 -3.682434
-684.503140 -78.293749 -1880.156
1.00000 -31.604382 -399.622738 -3.682434
-675.895017 -84.876968 -1594.852

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 35.945636 108.863372 5.442566
442.776108 27.283202 1438.115
0.25000 35.945636 123.348977 5.442566
442.776108 28.533926 1519.600
0.50000 35.945636 139.757257 5.442566
442.776108 33.950145 1630.784
0.75000 35.945636 157.608793 5.442566
442.776108 53.166237 1773.786
1.00000 35.945636 176.411771 5.442566
442.776108 75.203145 1930.762

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -36.757477 -741.840531 -21.624119
-808.838332 -125.038268 -4696.525
0.25000 -36.757477 -709.782569 -21.624119
-805.525135 -107.918770 -4088.386
0.50000 -36.757477 -678.179561 -21.624119
-802.212006 -98.384705 -3547.475
0.75000 -36.757477 -647.560459 -21.624119
-798.898877 -97.247339 -3064.633
1.00000 -36.757477 -618.469482 -21.624119
-795.585749 -98.770702 -2636.661

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 31.770547 134.628795 5.896221
602.852316 31.995059 1724.518
0.25000 31.770547 147.970470 5.896221
602.852316 32.859451 1778.875
0.50000 31.770547 163.080171 5.896221
602.852316 37.379568 1867.022
0.75000 31.770547 179.520027 5.896221
602.852316 51.618838 2012.776
1.00000 31.770547 196.839529 5.896221
602.852316 68.315969 2192.485
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
664

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -34.382238 -783.564984 -16.886094
-758.453686 -105.519238 -5373.280
0.25000 -34.382238 -754.158086 -16.886094
-756.057565 -92.604631 -4716.746
0.50000 -34.382238 -725.165017 -16.886094
-753.661493 -89.462704 -4133.847
0.75000 -34.382238 -697.082975 -16.886094
-751.265420 -90.021002 -3619.248
1.00000 -34.382238 -670.407953 -16.886094
-748.869348 -92.532893 -3170.036

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 31.889648 143.180448 13.969774
708.655556 66.240901 1714.050
0.25000 31.889648 154.301341 13.969774
708.655556 57.819334 1745.469
0.50000 31.889648 166.895965 13.969774
708.655556 55.994795 1810.954
0.75000 31.889648 180.599332 13.969774
708.655556 64.505201 1931.612
1.00000 31.889648 195.035925 13.969774
708.655556 76.363527 2089.025

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -38.270738 -700.122016 -14.477872
-721.478209 -89.052251 -4973.652
0.25000 -38.270738 -675.610029 -14.477872
-719.480933 -79.967743 -4396.948
0.50000 -38.270738 -651.442988 -14.477872
-717.483698 -81.339747 -3888.331
0.75000 -38.270738 -628.035328 -14.477872
-715.486463 -89.654957 -3445.799
1.00000 -38.270738 -605.800484 -14.477872
-713.489228 -100.974810 -3069.596

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.135699 43.562315 0.560747
202.756486 9.596929 568.013985
0.25000 20.135699 43.567359 0.560747
202.737831 9.563405 545.534124
0.50000 20.135699 43.573048 0.560747
202.719991 11.511600 552.625922
0.75000 20.135699 43.579261 0.560747
202.703326 28.684721 608.875539
1.00000 20.135699 43.585846 0.560747
202.688265 48.306884 690.117253

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.482041 -202.316019 -18.329074
-56.722551 -55.039245 -1733.737
0.25000 -4.482041 -202.306744 -18.329074
-56.738596 -32.935650 -1538.383
0.50000 -4.482041 -202.297685 -18.329074
-56.756410 -17.607901 -1365.482
0.75000 -4.482041 -202.288979 -18.329074
-56.775657 -11.616651 -1214.631
1.00000 -4.482041 -202.280786 -18.329074
-56.795960 -8.207027 -1086.507

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.288488 83.156993 7.252725
449.258874 34.992326 999.380358
0.25000 18.288488 83.162039 7.252725
449.240210 27.483808 954.679699
0.50000 18.288488 83.167728 7.252725
449.222361 25.506842 945.316224
0.75000 18.288488 83.173942 7.252725
449.205688 34.174743 1007.992
1.00000 18.288488 83.180528 7.252725
449.190618 45.879773 1119.693
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
665

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.442038 -299.811795 -12.997358
-117.632052 -41.092184 -2752.008
0.25000 -11.442038 -299.802520 -12.997358
-117.648103 -26.106155 -2470.038
0.50000 -11.442038 -299.793460 -12.997358
-117.665923 -19.998782 -2222.627
0.75000 -11.442038 -299.784754 -12.997358
-117.685176 -20.982279 -2011.854
1.00000 -11.442038 -299.776561 -12.997358
-117.705488 -24.951766 -1839.388

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 28.700350 129.941557 7.368798
599.526727 41.725669 1587.119
0.25000 28.700350 142.494314 7.368798
574.150437 35.357560 1619.339
0.50000 28.700350 156.667349 7.368798
571.576937 38.627679 1677.632
0.75000 28.700350 172.127802 7.368798
571.252666 52.163984 1789.304
1.00000 28.700350 188.451283 7.368798
571.220991 69.076035 1931.679

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -26.022533 -659.868813 -18.773277
-467.063523 -92.579869 -4706.793
0.25000 -26.022533 -634.702904 -18.773277
-474.076947 -74.803968 -4191.784
0.50000 -26.022533 -609.984145 -18.773277
-483.646773 -66.604198 -3720.853
0.75000 -26.022533 -586.149676 -18.773277
-516.551952 -65.557777 -3318.123
1.00000 -26.022533 -563.617406 -18.773277
-553.649047 -67.807056 -2970.247

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 30.772039 141.352040 11.049842
713.750483 69.919649 1598.986
0.25000 30.772039 151.809393 11.049842
692.610202 61.273163 1613.569
0.50000 30.772039 163.616554 11.049842
690.466291 61.924955 1655.434
0.75000 30.772039 176.496227 11.049842
690.196149 71.855619 1748.084
1.00000 30.772039 190.094865 11.049842
690.169762 85.024741 1872.656

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -27.962073 -590.902949 -16.145932
-498.768681 -77.494723 -4342.267
0.25000 -27.962073 -569.938400 -16.145932
-504.611370 -64.127767 -3894.853
0.50000 -27.962073 -549.345890 -16.145932
-512.583725 -61.144056 -3490.490
0.75000 -27.962073 -529.490057 -16.145932
-540.029437 -64.799584 -3153.298
1.00000 -27.962073 -510.719049 -16.145932
-570.900672 -71.660096 -2871.749

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.729045 52.170000 5.156828
327.553882 51.102710 421.015707
0.25000 13.729045 52.175047 5.156828
327.535190 50.233079 404.318949
0.50000 13.729045 52.180739 5.156828
327.517314 50.375673 395.387901
0.75000 13.729045 52.186956 5.156828
327.500615 51.438405 395.296828
1.00000 13.729045 52.193545 5.156828
327.485521 52.935242 404.379648
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
666

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.085457 -57.945033 -2.327139
-181.767329 -4.425408 -580.994331
0.25000 -9.085457 -57.935756 -2.327139
-181.783396 -5.847832 -562.483242
0.50000 -9.085457 -57.926695 -2.327139
-181.801234 -8.911960 -553.244177
0.75000 -9.085457 -57.917987 -2.327139
-181.820508 -13.289311 -561.472842
1.00000 -9.085457 -57.909792 -2.327139
-181.840841 -18.335813 -578.967038

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.388373 88.660330 18.140364
568.158057 97.200261 781.005634
0.25000 18.388373 88.665372 18.140364
568.139441 82.489935 745.567459
0.50000 18.388373 88.671057 18.140364
568.121634 74.426427 726.266289
0.75000 18.388373 88.677267 18.140364
568.105004 71.113795 726.372455
1.00000 18.388373 88.683847 18.140364
568.089975 69.872088 753.979076

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -22.309359 -131.200372 -2.276052
-265.766346 -5.286947 -1354.530
0.25000 -22.309359 -131.191100 -2.276052
-265.782369 -7.478415 -1282.437
0.50000 -22.309359 -131.182042 -2.276052
-265.800158 -18.376357 -1229.731
0.75000 -22.309359 -131.173338 -2.276052
-265.819378 -34.310698 -1204.652
1.00000 -22.309359 -131.165147 -2.276052
-265.839653 -53.054110 -1202.639

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.257015 114.895176 12.594017
683.280961 83.126192 1149.299
0.25000 22.257015 114.949633 12.594017
683.079804 73.888509 1098.003
0.50000 22.257015 115.011046 12.594017
682.887401 69.736324 1074.481
0.75000 22.257015 115.078117 12.594017
682.707703 70.775009 1116.616
1.00000 22.257015 115.149202 12.594017
682.545301 74.330841 1189.922

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.000431 -259.806910 -6.415970
-256.010695 -18.587651 -2533.659
0.25000 -18.000431 -259.706765 -6.415970
-256.183802 -15.396910 -2324.421
0.50000 -18.000431 -259.608936 -6.415970
-256.375987 -16.759014 -2148.231
0.75000 -18.000431 -259.514927 -6.415970
-256.583638 -26.755765 -2016.078
1.00000 -18.000431 -259.426457 -6.415970
-256.802686 -37.330465 -1922.757

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 33.861898 138.734825 10.806426
770.153406 77.545767 1499.142
0.25000 33.861898 146.562099 10.806426
745.766940 69.750966 1492.280
0.50000 33.861898 155.394201 10.806426
722.469110 70.050472 1513.663
0.75000 33.861898 165.035060 10.806426
700.915660 82.199099 1589.380
1.00000 33.861898 175.235612 10.806426
699.277775 98.093490 1699.331
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
667

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -24.041880 -492.855648 -18.649914
-397.950201 -70.530004 -3825.453
0.25000 -24.041880 -477.897984 -18.649914
-412.239176 -54.122508 -3452.386
0.50000 -24.041880 -463.245001 -18.649914
-437.403819 -47.737129 -3129.164
0.75000 -24.041880 -449.138462 -18.649914
-464.596977 -49.187940 -2870.227
1.00000 -24.041880 -435.838872 -18.649914
-493.144508 -55.843396 -2626.636

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 24.614157 73.114393 15.125998
610.850403 54.709794 769.780690
0.25000 24.614157 84.739767 15.125998
585.903519 46.913349 1002.422
0.50000 24.614157 107.622114 15.125998
564.318866 43.730426 1278.338
0.75000 24.614157 133.602045 15.125998
564.289092 53.024026 1601.217
1.00000 24.614157 160.553378 15.125998
564.279218 67.866784 1964.897

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.071798 -665.540164 -17.683326
-637.315935 -66.728001 -2678.927
0.25000 -19.071798 -635.851483 -17.683326
-637.315935 -56.765001 -2538.643
0.50000 -19.071798 -606.222587 -17.683326
-637.315935 -56.215022 -2398.619
0.75000 -19.071798 -577.502617 -17.683326
-637.315935 -61.180347 -2258.823
1.00000 -19.071798 -550.275093 -17.683326
-637.315935 -71.348496 -2119.762

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 35.945636 143.180448 18.140364
770.153406 97.200261 1724.518
0.25000 35.945636 154.301341 18.140364
745.766940 82.489935 1778.875
0.50000 35.945636 166.895965 18.140364
722.469110 74.426427 1867.022
0.75000 35.945636 180.599332 18.140364
708.655556 82.199099 2012.776
1.00000 35.945636 196.839529 18.140364
708.655556 98.093490 2192.485

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -38.270738 -783.564984 -21.624119
-808.838332 -125.038268 -5373.280
0.25000 -38.270738 -754.158086 -21.624119
-805.525135 -107.918770 -4716.746
0.50000 -38.270738 -725.165017 -21.624119
-802.212006 -98.384705 -4133.847
0.75000 -38.270738 -697.082975 -21.624119
-798.898877 -97.247339 -3619.248
1.00000 -38.270738 -670.407953 -21.624119
-795.585749 -100.974810 -3170.036

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 35.945636 143.180448 18.140364
770.153406 97.200261 1724.518
0.25000 35.945636 154.301341 18.140364
745.766940 82.489935 1778.875
0.50000 35.945636 166.895965 18.140364
722.469110 74.426427 1867.022
0.75000 35.945636 180.599332 18.140364
708.655556 82.199099 2012.776
1.00000 35.945636 196.839529 18.140364
708.655556 98.093490 2192.485

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -38.270738 -783.564984 -21.624119
-808.838332 -125.038268 -5373.280
0.25000 -38.270738 -754.158086 -21.624119
-805.525135 -107.918770 -4716.746
0.50000 -38.270738 -725.165017 -21.624119
-802.212006 -98.384705 -4133.847
0.75000 -38.270738 -697.082975 -21.624119
-798.898877 -97.247339 -3619.248
1.00000 -38.270738 -670.407953 -21.624119
-795.585749 -100.974810 -3170.036

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 35.945636 143.180448 18.140364
770.153406 97.200261 1724.518
0.25000 35.945636 154.301341 18.140364
745.766940 82.489935 1778.875
0.50000 35.945636 166.895965 18.140364
722.469110 74.426427 1867.022
0.75000 35.945636 180.599332 18.140364
708.655556 82.199099 2012.776
1.00000 35.945636 196.839529 18.140364
708.655556 98.093490 2192.485

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -38.270738 -783.564984 -21.624119
-808.838332 -125.038268 -5373.280
0.25000 -38.270738 -754.158086 -21.624119
-805.525135 -107.918770 -4716.746
0.50000 -38.270738 -725.165017 -21.624119
-802.212006 -98.384705 -4133.847
0.75000 -38.270738 -697.082975 -21.624119
-798.898877 -97.247339 -3619.248
1.00000 -38.270738 -670.407953 -21.624119
-795.585749 -100.974810 -3170.036

ELEM 34 ========== LENGTH = 4.987797

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.181466 77.693438 0.574990
76.886702 19.864822 1216.042
0.25000 12.181466 98.461151 0.574990
76.886702 24.626131 1400.957
0.50000 12.181466 121.257978 0.574990
76.886702 30.406532 1553.870
0.75000 12.181466 145.677182 0.574990
76.886702 37.117647 1674.082
1.00000 12.181466 170.311319 0.574990
76.886702 44.955601 1764.376

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.594843 -373.629858 -8.233729
-539.116352 -49.746511 -1029.153
0.25000 -11.594843 -348.448012 -8.233729
-539.116352 -46.511878 -961.548070
0.50000 -11.594843 -322.731082 -8.233729
-539.116352 -43.277459 -894.006444
0.75000 -11.594843 -297.871892 -8.233729
-539.116352 -40.073908 -826.630946
1.00000 -11.594843 -274.724954 -8.233729
-539.116352 -36.882941 -759.728544

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 24.099891 110.901432 1.313591
177.618326 61.277270 1877.264
0.25000 24.099891 137.109947 1.313591
177.618326 65.435471 2137.305
0.50000 24.099891 165.774131 1.313591
177.618326 70.892267 2375.059
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
669

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 24.099891 196.415235 1.313591
177.618326 77.661952 2597.335
1.00000 24.099891 228.094164 1.313591
177.618326 85.660688 2800.364

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.785493 -552.223984 -10.884092
-653.616817 -60.509334 -1734.228
0.25000 -15.785493 -519.909276 -10.884092
-653.616817 -56.379330 -1629.641
0.50000 -15.785493 -487.745727 -10.884092
-653.616817 -52.262553 -1525.156
0.75000 -15.785493 -456.754949 -10.884092
-653.616817 -48.169193 -1421.089
1.00000 -15.785493 -427.593859 -10.884092
-653.616817 -44.090979 -1317.092

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.330707 121.324260 2.044791
323.380386 50.085776 1965.713
0.25000 20.330707 145.389930 2.044791
323.380386 53.645538 2264.095
0.50000 20.330707 171.704859 2.044791
323.380386 58.649834 2551.190
0.75000 20.330707 199.829381 2.044791
323.380386 65.057609 2829.590
1.00000 20.330707 228.965297 2.044791
323.380386 72.711984 3092.821

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.225633 -580.243913 -9.791470
-568.822583 -56.184391 -2120.338
0.25000 -15.225633 -550.528230 -9.791470
-568.822583 -52.174541 -2007.792
0.50000 -15.225633 -521.014175 -9.791470
-568.822583 -48.245652 -1895.337
0.75000 -15.225633 -492.573816 -9.791470
-568.822583 -44.612455 -1783.261
1.00000 -15.225633 -465.810081 -9.791470
-568.822583 -41.547175 -1671.242

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.684952	116.991425	4.731723
430.415401	54.144788	1767.735	
0.25000	20.684952	137.055874	4.731723
430.415401	55.755247	2048.140	
0.50000	20.684952	158.995446	4.731723
430.415401	58.648021	2326.702	
0.75000	20.684952	182.443574	4.731723
430.415401	62.765328	2600.697	
1.00000	20.684952	206.736674	4.731723
430.415401	67.955910	2864.441	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.367519	-523.084878	-8.520957
-498.793197	-71.617182	-2099.279	
0.25000	-18.367519	-498.308525	-8.520957
-498.793197	-68.611294	-2003.584	
0.50000	-18.367519	-473.702140	-8.520957
-498.793197	-65.902866	-1908.088	
0.75000	-18.367519	-449.990843	-8.520957
-498.793197	-63.709346	-1812.929	
1.00000	-18.367519	-427.677306	-8.520957
-498.793197	-62.543936	-1718.005	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.429338	27.422760	0.779002
153.316546	37.532595	574.763428	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	11.429338	27.434536	0.779002
153.275709	36.840952	638.594950	
0.50000	11.429338	27.447310	0.779002
153.240550	36.168321	724.512257	
0.75000	11.429338	27.460843	0.779002
153.213967	35.537235	841.035572	
1.00000	11.429338	27.476264	0.779002
153.192070	34.906709	981.618876	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.796883	-139.149118	-1.621674
-75.355167	-5.891579	-758.240924	
0.25000	-2.796883	-139.133510	-1.621674
-75.388275	-5.492397	-723.318604	
0.50000	-2.796883	-139.119501	-1.621674
-75.423544	-5.099533	-688.425075	
0.75000	-2.796883	-139.105949	-1.621674
-75.460594	-4.711786	-653.546252	
1.00000	-2.796883	-139.093132	-1.621674
-75.503921	-4.330311	-618.687798	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.528502	49.506110	2.848947
350.783676	32.209718	808.638137	
0.25000	10.528502	49.517886	2.848947
350.742838	30.842294	932.117868	
0.50000	10.528502	49.530660	2.848947
350.707679	29.905764	1088.167	
0.75000	10.528502	49.544193	2.848947
350.681096	29.303318	1280.194	
1.00000	10.528502	49.559614	2.848947
350.659199	28.904256	1497.636	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.989742	-212.876463	-1.816323
-65.793784	-23.728542	-1301.955	
0.25000	-7.989742	-212.860855	-1.816323
-65.826892	-22.570946	-1253.744	
0.50000	-7.989742	-212.846846	-1.816323
-65.862161	-21.525600	-1205.534	
0.75000	-7.989742	-212.833294	-1.816323
-65.899211	-20.717677	-1157.353	
1.00000	-7.989742	-212.820417	-1.816323
-65.942538	-20.911722	-1109.274	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.970690	105.386684	2.959656
362.476074	52.543320	1645.018	
0.25000	16.970690	125.719320	2.959656
359.096452	53.178353	1915.598	
0.50000	16.970690	147.841860	2.959656
359.096452	54.886423	2178.599	
0.75000	16.970690	171.387714	2.959656
359.096452	57.946471	2436.491	
1.00000	16.970690	196.941284	2.959656
359.096452	62.051581	2683.382	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.096368	-497.931984	-7.067574
-338.199445	-49.800830	-1966.248	
0.25000	-15.096368	-471.968207	-7.067574
-338.199445	-46.677355	-1873.042	
0.50000	-15.096368	-447.420086	-7.067574
-353.356795	-43.677447	-1779.948	
0.75000	-15.096368	-423.721072	-7.067574
-385.168195	-40.949027	-1687.117	
1.00000	-15.096368	-401.366174	-7.067574
-413.748003	-38.998452	-1594.383	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.220610	103.376961	5.899639
462.004001	61.463034	1494.517	
0.25000	18.220610	120.312741	5.899639
459.188993	60.350177	1743.203	
0.50000	18.220610	138.739395	5.899639
459.188993	60.130097	1996.007	
0.75000	18.220610	158.351579	5.899639
459.188993	61.013180	2246.723	
1.00000	18.220610	179.636061	5.899639
459.188993	62.757052	2489.714	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.270222	-447.839471	-6.069445
-315.149464	-56.359630	-1937.018	
0.25000	-16.270222	-426.213314	-6.069445
-315.149464	-55.340374	-1860.899	
0.50000	-16.270222	-405.766306	-6.069445
-327.774563	-54.810196	-1785.071	
0.75000	-16.270222	-386.026550	-6.069445
-354.271416	-55.005749	-1709.585	
1.00000	-16.270222	-367.406356	-6.069445
-378.076560	-56.239719	-1634.240	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.592164	23.573093	5.642682
243.132516	32.675735	188.982535	
0.25000	6.592164	23.584874	5.642682
243.091606	30.036112	220.648856	
0.50000	6.592164	23.597654	5.642682
243.056390	27.400374	267.854220	
0.75000	6.592164	23.611193	5.642682
243.029499	24.789262	317.726697	
1.00000	6.592164	23.626624	5.642682
243.007241	22.223153	369.458830	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.872257	-46.495759	-0.387056
-59.198552	-15.879432	-432.009862	
0.25000	-6.872257	-46.480141	-0.387056
-59.231718	-19.371715	-436.723667	
0.50000	-6.872257	-46.466127	-0.387056
-59.267046	-23.432968	-441.702205	
0.75000	-6.872257	-46.452569	-0.387056
-59.304156	-28.020855	-446.961132	
1.00000	-6.872257	-46.439741	-0.387056
-59.347560	-33.132444	-452.447827	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.475401	42.998222	8.686795
429.498638	43.209457	374.601376	
0.25000	10.475401	43.009999	8.686795
429.457801	39.383402	453.755115	
0.50000	10.475401	43.022772	8.686795
429.422642	35.722335	555.254108	
0.75000	10.475401	43.036306	8.686795
429.396059	32.197045	664.103408	
1.00000	10.475401	43.051726	8.686795
429.374162	28.791230	779.446354	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.695737	-104.879006	-1.161629
-79.845824	-51.621693	-877.249940	
0.25000	-15.695737	-104.863398	-1.161629
-79.878932	-54.388951	-874.338988	
0.50000	-15.695737	-104.849389	-1.161629
-79.914201	-57.832038	-871.601623	
0.75000	-15.695737	-104.835837	-1.161629
-79.951251	-61.957276	-869.395588	
1.00000	-15.695737	-104.823020	-1.161629
-79.994578	-67.100056	-867.405411	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.203417	60.324006	7.942738
528.563849	44.660952	705.954157	
0.25000	11.203417	60.334605	7.942738
528.527095	41.002856	838.566303	
0.50000	11.203417	60.346101	7.942738
528.495452	37.714691	1006.032	
0.75000	11.203417	60.358281	7.942738
528.471527	34.730824	1193.899	
1.00000	11.203417	60.372160	7.942738
528.451820	31.955656	1397.109	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.391782	-191.714716	-1.132928
-72.282150	-34.744627	-1398.705	
0.25000	-12.391782	-191.700669	-1.132928
-72.311948	-37.299941	-1371.304	
0.50000	-12.391782	-191.688061	-1.132928
-72.343690	-40.597944	-1344.048	
0.75000	-12.391782	-191.675864	-1.132928
-72.377035	-44.631051	-1317.050	
1.00000	-12.391782	-191.664329	-1.132928
-72.416029	-50.387637	-1290.641	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.031747	90.939449	7.109483
546.497155	68.615288	1276.626	
0.25000	18.031747	102.903418	7.109483
522.022208	65.670836	1487.443	
0.50000	18.031747	115.894109	7.109483
501.480744	63.507925	1714.657	
0.75000	18.031747	129.687760	7.109483
493.896210	61.945307	1949.750	
1.00000	18.031747	145.040324	7.109483
493.896210	61.197505	2185.859	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.578756	-373.717831	-4.415802
-220.739828	-45.786475	-1798.925	
0.25000	-15.578756	-358.150699	-4.415802
-236.793103	-46.660858	-1739.111	
0.50000	-15.578756	-343.821727	-4.415802
-261.412672	-48.144289	-1679.510	
0.75000	-15.578756	-329.974079	-4.415802
-284.586250	-50.375903	-1620.384	
1.00000	-15.578756	-316.894218	-4.415802
-317.732559	-53.742758	-1561.394	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.722163	96.362450	1.247406
149.619588	27.618458	1211.571	
0.25000	15.722163	110.322048	1.247406
149.619588	25.940777	1319.487	
0.50000	15.722163	125.825341	1.247406
149.619588	34.295998	1419.611	
0.75000	15.722163	142.461670	1.247406
149.619588	39.879948	1508.222	
1.00000	15.722163	159.768980	1.247406
149.619588	46.357562	1600.035	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-31.318126	-390.740838	-11.108811
-648.305088	-85.616724	-1593.610	
0.25000	-31.318126	-366.483373	-11.108811
-639.697305	-76.987031	-1391.777	
0.50000	-31.318126	-342.550084	-11.108811
-631.089521	-69.225134	-1219.607	
0.75000	-31.318126	-319.461037	-11.108811
-622.481737	-62.253606	-1076.408	
1.00000	-31.318126	-297.617947	-11.108811
-613.873954	-55.907937	-986.663346	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	35.112628	150.201259	2.455602
277.603057	76.854389	1931.583	
0.25000	35.112628	167.445704	2.455602
277.603057	79.627750	2071.939	
0.50000	35.112628	186.595531	2.455602
277.603057	83.844373	2226.051	
0.75000	35.112628	207.166328	2.455602
277.603057	89.857707	2395.667	
1.00000	35.112628	228.611720	2.455602
277.603057	97.120348	2601.217	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-36.135262	-591.268657	-14.424116
-766.978975	-100.110141	-2635.357	
0.25000	-36.135262	-561.765167	-14.424116
-763.665977	-89.699674	-2317.548	
0.50000	-36.135262	-532.731792	-14.424116
-760.352979	-80.361929	-2050.677	
0.75000	-36.135262	-504.770210	-14.424116
-757.039981	-71.966285	-1839.924	
1.00000	-36.135262	-478.356277	-14.424116
-753.726983	-64.340311	-1718.665	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.925705	168.704072	3.815062
434.029866	70.237597	2192.617	
0.25000	30.925705	184.560548	3.815062
434.029866	71.194851	2357.494	
0.50000	30.925705	202.170278	3.815062
434.029866	73.774164	2549.748	
0.75000	30.925705	221.088602	3.815062
434.029866	78.037784	2770.241	
1.00000	30.925705	240.816613	3.815062
434.029866	83.833575	3052.985	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-33.802503	-644.724057	-13.050224
-676.960336	-93.372212	-3169.150	
0.25000	-33.802503	-617.633218	-13.050224
-674.564358	-83.887530	-2817.077	
0.50000	-33.802503	-590.981678	-13.050224
-672.168380	-75.411995	-2539.378	
0.75000	-33.802503	-565.318549	-13.050224
-669.772402	-68.095429	-2325.826	
1.00000	-33.802503	-541.080939	-13.050224
-667.376425	-62.110967	-2222.331	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.141428	165.023455	7.109686
558.359759	78.392033	2088.593	
0.25000	31.141428	178.240548	7.109686
558.359759	76.578536	2246.483	
0.50000	31.141428	192.919059	7.109686
558.359759	76.366349	2435.065	
0.75000	31.141428	208.688343	7.109686
558.359759	77.780924	2659.617	
1.00000	31.141428	225.132538	7.109686
558.359759	80.668660	2944.072	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-37.868971	-587.627724	-11.276462
-611.528211	-101.710454	-3068.794	
0.25000	-37.868971	-565.046277	-11.276462
-609.531054	-94.939335	-2761.468	
0.50000	-37.868971	-542.831007	-11.276462
-607.533898	-89.355859	-2530.033	
0.75000	-37.868971	-521.439622	-11.276462
-605.536741	-85.066882	-2359.940	
1.00000	-37.868971	-501.236471	-11.276462
-603.539585	-82.175334	-2289.250	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.029028	47.726705	1.243557
168.857656	48.153411	689.723810	
0.25000	20.029028	47.732296	1.243557
168.840195	47.592579	718.403490	
0.50000	20.029028	47.738526	1.243557
168.823522	47.147161	778.112336	
0.75000	20.029028	47.745247	1.243557
168.808052	46.801385	872.013877	
1.00000	20.029028	47.752326	1.243557
168.794194	46.547910	1008.974	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.190575	-174.091892	-1.963924
-69.286125	-8.613556	-1086.648	
0.25000	-4.190575	-174.082991	-1.963924
-69.302348	-7.755134	-975.174779	
0.50000	-4.190575	-174.074336	-1.963924
-69.320313	-7.012533	-889.792363	
0.75000	-4.190575	-174.066071	-1.963924
-69.339571	-6.373395	-831.891064	
1.00000	-4.190575	-174.058352	-1.963924
-69.359727	-5.824709	-812.901370	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.129561	82.611707	4.127386
398.003871	46.344487	1118.536	
0.25000	18.129561	82.617298	4.127386
397.986401	43.761644	1183.216	
0.50000	18.129561	82.623529	4.127386
397.969719	41.307643	1293.664	
0.75000	18.129561	82.630251	4.127386
397.954240	39.401040	1454.290	
1.00000	18.129561	82.637331	4.127386
397.940374	38.024865	1686.163	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.243524	-274.664248	-2.150031
-71.602275	-24.745341	-1839.766	
0.25000	-11.243524	-274.655346	-2.150031
-71.618504	-23.989433	-1678.880	
0.50000	-11.243524	-274.646691	-2.150031
-71.636475	-23.554857	-1568.648	
0.75000	-11.243524	-274.638425	-2.150031
-71.655740	-23.656342	-1498.607	
1.00000	-11.243524	-274.630706	-2.150031
-71.675904	-24.460126	-1492.287	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	28.083556	150.057109	4.667671
483.309303	70.395553	1931.140	
0.25000	28.083556	164.426201	4.667671
456.838808	69.531420	2084.194	
0.50000	28.083556	180.413541	4.667671
451.022686	70.027441	2263.859	
0.75000	28.083556	197.619092	4.667671
451.005909	71.601848	2469.681	
1.00000	28.083556	215.656655	4.667671
450.994783	74.326673	2737.014	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.545948	-562.196346	-9.114978
-395.404196	-68.349385	-2970.283	
0.25000	-25.545948	-538.536405	-9.114978
-404.002086	-62.548159	-2615.220	
0.50000	-25.545948	-515.375202	-9.114978
-427.236711	-57.576723	-2401.651	
0.75000	-25.545948	-493.172304	-9.114978
-463.624975	-53.506854	-2241.010	
1.00000	-25.545948	-472.320956	-9.114978
-499.134293	-50.449946	-2119.569	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.218900	150.863902	8.641118
604.651018	86.688692	1871.695	
0.25000	30.218900	162.834393	8.641118
582.599184	82.470663	2016.751	
0.50000	30.218900	176.153001	8.641118
577.753935	79.657884	2189.778	
0.75000	30.218900	190.486467	8.641118
577.739959	78.008069	2398.571	
1.00000	30.218900	205.513059	8.641118
577.730690	77.526622	2663.918	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.511768	-511.484946	-7.847820
-394.460994	-72.426763	-2871.608	
0.25000	-27.511768	-491.774508	-7.847820
-401.623657	-69.294836	-2573.077	
0.50000	-27.511768	-472.479553	-7.847820
-420.979777	-67.282908	-2396.499	
0.75000	-27.511768	-453.983837	-7.847820
-451.293828	-66.517369	-2277.666	
1.00000	-27.511768	-436.612259	-7.847820
-480.875653	-67.016573	-2196.805	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.561305	41.050934	7.994736
307.234900	53.639259	403.554031	
0.25000	13.561305	41.056529	7.994736
307.217402	47.584174	426.167200	
0.50000	13.561305	41.062761	7.994736
307.200694	42.093764	456.511920	
0.75000	13.561305	41.069485	7.994736
307.185190	37.130710	509.562277	
1.00000	13.561305	41.076567	7.994736
307.171301	32.619568	568.781150	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.865069	-60.215906	-0.477032
-114.441961	-18.910791	-578.606593	
0.25000	-8.865069	-60.207001	-0.477032
-114.458208	-21.909943	-557.761342	
0.50000	-8.865069	-60.198344	-0.477032
-114.476199	-25.729729	-585.567041	
0.75000	-8.865069	-60.190076	-0.477032
-114.495484	-30.325528	-613.414287	
1.00000	-8.865069	-60.182356	-0.477032
-114.515670	-35.521905	-648.319106	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.183518	71.242306	11.835017
536.421421	76.012662	752.446424	
0.25000	18.183518	71.247894	11.835017
536.411998	62.606275	803.245285	
0.50000	18.183518	71.254121	11.835017
536.395359	55.109481	874.361707	
0.75000	18.183518	71.260839	11.835017
536.379921	48.426855	984.053798	
1.00000	18.183518	71.267914	11.835017
536.366094	42.392792	1115.202	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.252839	-136.939564	-1.172214
-151.781194	-53.350688	-1202.324	
0.25000	-22.252839	-136.930665	-1.172214
-151.797394	-57.046750	-1176.962	
0.50000	-22.252839	-136.922014	-1.172214
-151.815334	-61.837736	-1166.904	
0.75000	-22.252839	-136.913750	-1.172214
-151.834564	-67.656772	-1162.894	
1.00000	-22.252839	-136.906034	-1.172214
-151.854691	-74.357423	-1239.894	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.004228	98.702455	11.255499
630.290973	75.242399	1188.088	
0.25000	22.004228	98.762812	11.255499
630.102704	66.974674	1268.067	
0.50000	22.004228	98.830079	11.255499
629.922907	59.595896	1386.400	
0.75000	22.004228	98.902637	11.255499
629.756088	52.981184	1557.360	
1.00000	22.004228	98.979061	11.255499
629.606671	47.160421	1784.538	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.765860	-251.521685	-1.312105
-135.837041	-37.706793	-1922.751	
0.25000	-17.765860	-251.425527	-1.312105
-136.012064	-40.907474	-1815.345	
0.50000	-17.765860	-251.332128	-1.312105
-136.205878	-45.110841	-1751.290	
0.75000	-17.765860	-251.242880	-1.312105
-136.413640	-50.221283	-1736.619	
1.00000	-17.765860	-251.159536	-1.312105
-136.631089	-56.297168	-1775.843	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	33.452622	139.189680	10.320210

```
677.342550   99.223110    1697.964
 0.25000    33.452622   147.990065    10.320210
654.885454   92.903270    1821.695
 0.50000    33.452622   157.790428    10.320210
633.448025   87.666160    1977.190
 0.75000    33.452622   168.351766    10.320210
613.699455   83.736773    2177.201
 1.00000    33.452622   179.452596    10.320210
609.307580   80.803319    2434.498

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -23.552338  -437.327840   -5.590705
-299.987237  -56.601630   -2626.495
 0.25000   -23.552338  -423.103489   -5.590705
-322.744215  -56.310820   -2419.080
 0.50000   -23.552338  -409.229328   -5.590705
-347.971662  -57.185577   -2274.927
 0.75000   -23.552338  -395.957707   -5.590705
-375.099986  -59.110394   -2189.244
 1.00000   -23.552338  -383.528106   -5.590705
-403.326964  -62.200805   -2175.597

 COMB      DB ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    24.099891   121.324260    8.686795
546.497155   68.615288    1965.713
 0.25000    24.099891   145.389931    8.686795
528.527095   65.270836    2264.095
 0.50000    24.099891   171.704859    8.686795
528.495452   70.892267    2551.190
 0.75000    24.099891   199.829381    8.686795
528.471527   77.661952    2829.590
 1.00000    24.099891   228.965297    8.686795
528.451820   85.660688    3092.821

 COMB      DB ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -18.367519  -580.243913  -10.884092
-653.616817  -71.611782   -2120.338
 0.25000  -18.367519  -550.528230  -10.884092
-653.616817  -68.611294   -2007.792
 0.50000  -18.367519  -521.014175  -10.884092
-653.616817  -65.902866   -1908.088
 0.75000  -18.367519  -492.573816  -10.884092
-653.616817  -63.709346   -1812.929
 1.00000  -18.367519  -465.810681  -10.884092
-653.616817  -67.100056   -1718.005
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    677

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    35.112628   168.704072   11.835017
677.342550   99.223110    2192.617
 0.25000    35.112628   184.560548   11.835017
654.885454   92.903270    2357.494
 0.50000    35.112628   202.170278   11.835017
633.448025   87.666160    2551.190
 0.75000    35.112628   221.088602   11.835017
629.756088   89.857707    2770.241
 1.00000    35.112628   240.816613   11.835017
629.606671   97.120348    3052.985

 COMB      DL ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -37.868971  -644.724057  -14.424116
-766.978975  -101.710454   -3169.150
 0.25000   -37.868971  -617.633218  -14.424116
-763.665977  -94.939335   -2817.077
 0.50000   -37.868971  -590.981678  -14.424116
-760.352979  -89.355859   -2539.378
 0.75000   -37.868971  -565.318549  -14.424116
-757.039981  -85.066882   -2359.940
 1.00000   -37.868971  -541.080939  -14.424116
-753.726983  -82.175334   -2289.250

 COMB      CAR ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    35.112628   168.704072   11.835017
677.342550   99.223110    2192.617
 0.25000    35.112628   184.560548   11.835017
654.885454   92.903270    2357.494
 0.50000    35.112628   202.170278   11.835017
633.448025   87.666160    2551.190
 0.75000    35.112628   221.088602   11.835017
629.756088   89.857707    2829.590
 1.00000    35.112628   240.816613   11.835017
629.606671   97.120348    3092.821

 COMB      CAR ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -37.868971  -644.724057  -14.424116
-766.978975  -101.710454   -3169.150
 0.25000   -37.868971  -617.633218  -14.424116
-763.665977  -94.939335   -2817.077
 0.50000   -37.868971  -590.981678  -14.424116
-760.352979  -89.355859   -2539.378
 0.75000   -37.868971  -565.318549  -14.424116
-757.039981  -85.066882   -2359.940
 1.00000   -37.868971  -541.080939  -14.424116
-753.726983  -82.175334   -2289.250

 COMB    DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    35.112628   168.704072   11.835017
677.342550   99.223110    2192.617
 0.25000    35.112628   184.560548   11.835017
654.885454   92.903270    2357.494
 0.50000    35.112628   202.170278   11.835017
633.448025   87.666160    2551.190
 0.75000    35.112628   221.088602   11.835017
629.756088   89.857707    2829.590
 1.00000    35.112628   240.816613   11.835017
629.606671   97.120348    3092.821

 COMB    DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -37.868971  -644.724057  -14.424116
-766.978975  -101.710454   -3169.150
 0.25000   -37.868971  -617.633218  -14.424116
-763.665977  -94.939335   -2817.077
 0.50000   -37.868971  -590.981678  -14.424116
-760.352979  -89.355859   -2539.378
 0.75000   -37.868971  -565.318549  -14.424116
-757.039981  -85.066882   -2359.940
 1.00000   -37.868971  -541.080939  -14.424116
-753.726983  -82.175334   -2289.250
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    678

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        35 ========== LENGTH
=     4.987697

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    11.697463   117.196319    0.804382
54.686672   45.814512    1765.967
 0.25000    11.697463   138.652682    0.804382
54.686672   49.935867    1892.988
 0.50000    11.697463   162.147392    0.804382
54.686672   55.360765    1987.974
 0.75000    11.697463   187.189877    0.804382
54.686672   61.811809    2050.966
 1.00000    11.697463   212.305103    0.804382
54.686672   69.452364    2085.618

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -11.573789  -331.088383   -8.363270
-457.712184  -37.445015  -759.906756
 0.25000  -11.573789  -305.676504   -8.363270
-457.712184  -33.331293  -711.557908
 0.50000  -11.573789  -279.916949   -8.363270
-457.712184  -29.218544  -663.218295
 0.75000  -11.573789  -255.325135   -8.363270
-457.712184  -25.110925  -614.993955
 1.00000  -11.573789  -232.474393   -8.363270
-457.712184  -21.008953  -566.769639

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    23.629914   166.758743    3.991890
146.972873   86.515311    2801.932
 0.25000    23.629914   193.784247    3.991890
146.972873   86.963538    2974.703
 0.50000    23.629914   223.314158    3.991890
146.972873   88.878648    3123.237
 0.75000    23.629914   254.768788    3.991890
146.972873   92.881340    3255.393
 1.00000    23.629914   287.130178    3.991890
146.972873  100.089634    3371.083

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.112761  -486.356779  -10.667131
-586.860805  -45.111174   -1317.322
 0.25000  -15.112761  -453.689473  -10.667131
-586.860805  -40.474052   -1237.337
 0.50000  -15.112761  -421.426397  -10.667131
-586.860805  -35.855304   -1157.351
 0.75000  -15.112761  -390.550182  -10.667131
-586.860805  -31.295130   -1077.510
 1.00000  -15.112761  -361.739760  -10.667131
-586.860805  -26.783510   -997.674268

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    20.015241   170.028596    3.768076
271.237843   74.413932    3093.747
 0.25000    20.015241   194.840684    3.768076
271.237843   75.601433    3239.058
 0.50000    20.015241   221.949512    3.768076
271.237843   78.408928    3489.054
 0.75000    20.015241   250.823110    3.768076
271.237843   83.189029    3668.767
 1.00000    20.015241   280.591301    3.768076
271.237843   90.568961    3834.733

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -14.531906  -506.441683   -9.913802
-539.049215  -41.888430   -1671.444
 0.25000  -14.531906  -476.397626   -9.913802
-539.049215  -37.323420   -1577.446
 0.50000  -14.531906  -446.788721   -9.913802
-539.049215  -33.170934   -1483.448
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    679

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000  -14.531906  -418.446440   -9.913802
-539.049215  -29.603661   -1389.583
 1.00000  -14.531906  -391.993653   -9.913802
-539.049215  -26.498544   -1295.722

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    20.258199   157.751741    5.957779
355.044452   69.641803    2864.543
 0.25000    20.258199   178.438394    5.957779
355.044452   69.402330    3066.825
 0.50000    20.258199   201.039838    5.957779
355.044452   70.611353    3257.551
 0.75000    20.258199   225.112560    5.957779
355.044452   73.518464    3440.978
 1.00000    20.258199   249.932978    5.957779
355.044452   78.648978    3613.996

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -17.723019  -454.543976  -10.221599
-470.519633  -62.568909   -1734.115
 0.25000  -17.723019  -429.493708  -10.221599
-470.519633  -57.562802   -1630.227
 0.50000  -17.723019  -404.808141  -10.221599
-470.519633  -53.563539   -1542.343
 0.75000  -17.723019  -381.178402  -10.221599
-470.519633  -51.252210   -1454.612
 1.00000  -17.723019  -359.123786  -10.221599
-470.519633  -50.103618   -1366.947

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    11.532980   35.702942    3.454506
137.221347   34.817491   981.355160
 0.25000    11.532980   35.715028    3.454506
137.181033   30.776461    1017.444
 0.50000    11.532980   35.728167    3.454506
137.146651   26.810278    1074.125
 0.75000    11.532980   35.742116    3.454506
137.117791   23.338358    1158.158
 1.00000    11.532980   35.757984    3.454506
137.094976   21.487266    1266.909

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.656298  -115.997745   -1.302064
-119.740899   -4.663239  -618.718906
 0.25000   -2.656298  -115.981864   -1.302064
-119.772020   -4.538014  -585.879979
 0.50000   -2.656298  -115.967725   -1.302064
-119.805926   -4.429174  -553.041110
 0.75000   -2.656298  -115.954049   -1.302064
-119.842109   -4.351678  -520.203007
 1.00000   -2.656298  -115.941116   -1.302064
-119.884978   -4.333018  -487.365201

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    10.664563   57.339449    4.464064
301.431822   30.065210    1496.696
 0.25000    10.664563   57.351534    4.464064
301.391509   26.693055    1580.991
 0.50000    10.664563   57.364673    4.464064
301.357127   23.797023    1692.630
 0.75000    10.664563   57.378622    4.464064
301.328267   21.644994    1836.979
 1.00000    10.664563   57.394490    4.464064
301.305452   21.144688    2006.277

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -7.825377  -176.669864   -2.983479
-127.084702  -20.462593   -1109.280
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    680

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   -7.825377  -176.653983   -2.983479
-127.115823  -18.260827   -1056.655
 0.50000   -7.825377  -176.639844   -2.983479
-127.149729  -16.921047   -1004.030
 0.75000   -7.825377  -176.626167   -2.983479
-127.185912  -17.127037  -951.410310
 1.00000   -7.825377  -176.613234   -2.983479
-127.228780  -18.350272  -898.790501

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   16.741607   140.669405    5.516118
326.582094   63.691232    2683.297
 0.25000   16.741607   161.562712    5.516118
304.655393   62.299274    2876.907
 0.50000   16.741607   184.335646    5.516118
304.655393   62.410893    3057.928
 0.75000   16.741607   208.553681    5.516118
304.655393   64.361298    3231.138
 1.00000   16.741607   234.756304    5.516118
304.652652   68.251809    3393.186

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -14.613268  -434.546561   -7.962385
-338.666938  -39.147812   -1594.505
 0.25000  -14.613268  -408.212122   -7.962385
-338.666938  -35.048769   -1510.082
 0.50000  -14.613268  -383.514606   -7.962385
-367.545258  -31.712512   -1425.660
 0.75000  -14.613268  -359.755105   -7.962385
-397.492900  -29.748377   -1341.315
 1.00000  -14.613268  -337.440556   -7.962385
-425.245315  -28.718185   -1257.002

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   17.863731   133.022335    7.921336
399.541265   64.257093    2488.967
 0.25000   17.863731   150.425117    7.921336
381.277731   61.499286    2677.936
 0.50000   17.863731   169.393508    7.921336
381.277731   59.981705    2857.626
 0.75000   17.863731   189.565575    7.921336
381.277731   60.008465    3031.695
 1.00000   17.863731   211.390677    7.921336
381.275449   61.688372    3196.843

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.645853  -389.370866   -7.442004
-307.954141   -56.064875   -1634.257
 0.25000  -15.645853   -367.435969   -7.442004
-307.954141   -53.468485   -1556.899
 0.50000  -15.645853   -346.864525   -7.442004
-332.007926   -52.076111   -1479.541
 0.75000  -15.645853   -327.074455   -7.442004
-356.952387   -52.380100   -1402.265
 1.00000  -15.645853   -308.487802   -7.442004
-380.068366   -53.943254   -1325.157

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.327102   23.980494    5.575603
193.710131   22.482734    244.096153
 0.25000    6.327102   23.992586    5.575603
193.710131   19.482734    408.096161
 0.50000    6.327102   24.005730    5.575603
193.675690   16.613255    448.995712
 0.75000    6.327102   24.019686    5.575603
193.646550   13.833271    491.092454
 1.00000    6.327102   24.034564    5.575603
193.623691   11.159251    534.099755
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    681

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.559500   -38.877067   -0.559075
-43.196859   -32.680192   -452.299315
 0.25000   -6.559500   -38.861176   -0.559075
-43.228038   -35.222285   -443.370249
 0.50000   -6.559500   -38.847031   -0.559075
-43.262003   -38.446355   -434.604665
 0.75000   -6.559500   -38.833348   -0.559075
-43.298248   -42.398115   -425.839103
 1.00000   -6.559500   -38.820409   -0.559075
-43.341195   -47.125473   -417.176272

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.045285   43.877878    8.410512
345.689309   29.439755    777.694512
 0.25000   10.045285   43.889964    8.410512
345.648995   25.136884    857.656350
 0.50000   10.045285   43.903103    8.410512
345.614613   21.564189    942.065704
 0.75000   10.045285   43.917052    8.410512
345.585753   17.935732    1030.691
 1.00000   10.045285   43.932920    8.410512
345.562938   14.631435    1122.684

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.407385  -86.880518   -3.413323
-63.590617   -66.414624   -967.216844
 0.25000  -15.407385  -86.864637   -3.413323
-63.621738   -65.807999   -843.391521
 0.50000  -15.407385  -86.850498   -3.413323
-63.655643   -66.542123   -819.669430
 0.75000  -15.407385  -86.836821   -3.413323
-63.691827   -69.683010   -795.947361
 1.00000  -15.407385  -86.823889   -3.413323
-63.734695   -75.291903   -772.389994

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.017802   61.325432    8.077909
435.572818   33.249041    1395.215
 0.25000   11.017802   61.336309    8.077909
435.536536   29.168635    1509.809
 0.50000   11.017802   61.348134    8.077909
435.505592   25.521553    1640.521
 0.75000   11.017802   61.360688    8.077909
435.479618   22.225184    1787.597
 1.00000   11.017802   61.374969    8.077909
435.459085   19.353196    1947.536

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -11.969455  -158.384798   -2.417829
-103.903972   -49.381441   -1290.483
 0.25000  -11.969455  -158.370505   -2.417829
-103.931981   -50.051602   -1243.576
 0.50000  -11.969455  -158.357780   -2.417829
-103.962496   -52.419922   -1196.754
 0.75000  -11.969455  -158.345471   -2.417829
-103.995061   -56.654098   -1149.932
 1.00000  -11.969455  -158.333831   -2.417829
-104.033643   -62.324747   -1103.270

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   17.946830   112.384976    9.493790
475.435802   62.494277    2184.562
 0.25000   17.946830   124.665146    9.493790
446.774452   57.759245    2350.329
 0.50000   17.946830   138.032213    9.493790
426.911135   53.956423    2515.758
 0.75000   17.946830   152.235489    9.493790
410.846882   51.541567    2685.327
 1.00000   17.946830   168.006573    9.493790
410.846882   50.813387    2854.678
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    682

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.000830  -323.134571   -5.253296
-229.703738   -53.346342   -1561.334
 0.25000  -15.000830  -307.318818   -5.253296
-254.517887   -52.748243   -1493.099
 0.50000  -15.000830  -292.879350   -5.253296
-277.664310   -53.426348   -1424.935
 0.75000  -15.000830  -278.949505   -5.253296
-302.851176   -55.879393   -1356.809
 1.00000  -15.000830  -265.820957   -5.253296
-340.520631   -59.689786   -1288.837

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    15.097477   122.116445    1.721963
92.076933   48.184747    1601.953
 0.25000    15.097477   137.842325    1.721963
92.076933   51.863283    1756.077
 0.50000    15.097477   155.102339    1.721963
92.076933   57.215913    1878.069
 0.75000    15.097477   173.480693    1.721963
92.076933   64.326846    1966.413
 1.00000    15.097477   192.448297    1.721963
92.076933   72.642930    2021.933

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -31.222313  -322.283454  -11.886692
-506.074367   -56.877333   -986.984795
 0.25000   -31.222313  -299.297472  -11.886692
-497.466755   -48.867980   -961.737875
 0.50000   -31.222313  -276.701931  -11.886692
-488.859445   -41.724047   -946.932740
 0.75000   -31.222313  -254.986221  -11.886692
-480.251532   -35.576084   -932.022137
 1.00000   -31.222313  -234.655928  -11.886692
-471.643921   -30.273317   -917.229272

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    34.386179   188.217610    5.900811
195.299219   99.317419    2605.105
 0.25000    34.386179   207.500625    5.900811
195.299219   99.625389    2825.680
 0.50000    34.386179   228.686655    5.900811
195.299219   101.981042   3019.967
 0.75000    34.386179   251.308418    5.900811
195.299219   106.314336   3190.966
 1.00000    34.386179   274.736894    5.900811
195.299219   113.307382   3329.564

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -35.641820  -487.714867  -14.237499
-624.493791   -65.966822   -1719.136
 0.25000   -35.641820  -459.667419  -14.237499
-621.180859   -57.470528   -1683.396
 0.50000   -35.641820  -432.131743  -14.237499
-617.867927   -50.280067   -1663.731
 0.75000   -35.641820  -405.691216  -14.237499
-614.554995   -44.255044   -1644.869
 1.00000   -35.641820  -380.941012  -14.237499
-611.242063   -39.249668   -1624.145

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    30.305083   203.172686    6.229213
326.396802   86.493253    3054.178
 0.25000    30.305083   220.889873    6.229213
326.396802   86.857850    3322.492
 0.50000    30.305083   240.360368    6.229213
326.396802   89.353063    3565.526
 0.75000    30.305083   261.155513    6.229213
326.396802   94.076135    3786.079
 1.00000    30.305083   282.699739    6.229213
326.396802  101.291070    3977.548
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    683

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -33.409498  -531.436841  -13.258698
-570.655333   -63.450563   -2222.713
 0.25000   -33.409498  -505.675235  -13.258698
-568.209403   -55.999946   -2192.739
 0.50000   -33.409498  -480.387370  -13.258698
-565.813473   -50.044205   -2180.373
 0.75000   -33.409498  -456.107417  -13.258698
-563.417543   -45.898580   -2167.827
 1.00000   -33.409498  -433.381723  -13.258698
-561.021613   -43.124908   -2155.389

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    30.503111   193.495442    8.580698
```

```
423.969214    83.344812    2944.287
 0.25000    30.503111   208.263524     8.580698
423.969214    81.622985    3203.602
 0.50000    30.503111   224.493067     8.580698
423.969214    81.942066    3442.305
 0.75000    30.503111   241.826766     8.580698
423.969214    84.388874    3662.900
 1.00000    30.503111   259.784858     8.580698
423.969214    89.159882    3859.606

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -37.592092  -488.516051   -12.914007
-504.562500   -83.327534    -2289.401
 0.25000   -37.592092  -467.042581   -12.914007
-502.565384   -76.512636    -2275.849
 0.50000   -37.592092  -445.963995   -12.914007
-500.568267   -71.616318    -2277.278
 0.75000   -37.592092  -425.725550   -12.914007
-498.571151   -68.880706    -2278.598
 1.00000   -37.592092  -406.782650   -12.914007
-496.574034   -67.858193    -2280.041

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    20.004037   55.544363     4.286507
145.022659    46.817347    1008.746
 0.25000    20.004037   55.550380     4.286507
145.005496    42.778607    1074.753
 0.50000    20.004037   55.557077     4.286507
144.988861    39.004269    1153.257
 0.75000    20.004037   55.564313     4.286507
144.973186    35.291725    1248.242
 1.00000    20.004037   55.571930     4.286507
144.958991    32.495076    1349.150

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.024709  -140.402905    -1.338667
-98.068766   -6.382046   -812.994638
 0.25000   -4.024709  -140.394289    -1.338667
-98.084558    -6.576270   -805.878411
 0.50000   -4.024709  -140.385894    -1.338667
-98.102237    -7.028313   -804.227268
 0.75000   -4.024709  -140.377866    -1.338667
-98.121465    -7.556620   -802.560746
 1.00000   -4.024709  -140.370382    -1.338667
-98.141809    -8.163921   -800.906782

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    18.079901   90.743418     5.671361
327.782342    39.085641    1685.007
 0.25000    18.079901   90.749434     5.671361
327.765171    35.244632    1815.251
 0.50000    18.079901   90.756133     5.671361
327.748527    32.136231    1957.815
 0.75000    18.079901   90.763569     5.671361
327.732844    29.590879    2116.834
 1.00000    18.079901   90.770988     5.671361
327.718641    28.441776    2283.667
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                        684

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -11.191314  -225.435943    -2.966220
-107.912860   -24.640262    -1492.321
 0.25000   -11.191314  -225.427327    -2.966220
-107.929658   -23.749675    -1491.850
 0.50000   -11.191314  -225.418931    -2.966220
-107.946344   -23.988183    -1499.205
 0.75000   -11.191314  -225.410901    -2.966220
-107.965579   -25.327573    -1506.575
 1.00000   -11.191314  -225.403417    -2.966220
-107.985931   -27.664143    -1513.929

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    27.606707   175.443688     7.177155
396.114387    2737.150
 0.25000    27.606707   191.191889     7.177155
369.606827    74.743377    2988.297
 0.50000    27.606707   208.605910     7.177155
349.569976    74.619797    3216.204
 0.75000    27.606707   227.316815     7.177155
349.373561    76.069808    3422.508
 1.00000    27.606707   246.866808     7.177155
349.376829    79.325487    3601.562

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -25.235066  -468.471268    -9.465801
-345.834208   -51.445221    -2119.842
 0.25000   -25.235066  -445.743231    -9.465801
-353.525767   -46.767926    -2101.755
 0.50000   -25.235066  -423.533956    -9.465801
-385.434062   -43.655270    -2097.801
 0.75000   -25.235066  -402.248025    -9.465801
-421.444888   -42.855324    -2093.971
 1.00000   -25.235066  -382.369246    -9.465801
-456.825396   -42.227686    -2090.089

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    29.713333   170.734641    10.384389
486.314300    79.822471    2663.226
 0.25000    29.713333   183.854029    10.384389
464.233176    75.472011    2904.748
 0.50000    29.713333   198.361165    10.384389
447.541033    72.315616    3127.168
 0.75000    29.713333   213.948700    10.384389
447.377406    71.820644    3331.979
 1.00000    29.713333   230.235255    10.384389
447.380128    72.665481    3514.326

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -27.158856  -430.175333    -8.750270
-327.796877   -68.088472    -2196.771
 0.25000   -27.158856  -411.241237    -8.750270
-334.204501   -65.416082    -2196.612
 0.50000   -27.158856  -392.739309    -8.750270
-360.786413   -64.609809    -2208.185
 0.75000   -27.158856  -375.006592    -8.750270
-390.786031   -65.809607    -2219.875
 1.00000   -27.158856  -358.446134    -8.750270
-420.260548   -68.679650    -2231.618

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    13.411065   37.556742     8.017665
239.026517    33.387719   567.563460
 0.25000    13.411065   37.562760     8.017665
239.009318    27.874459   612.944491
 0.50000    13.411065   37.569461     8.017665
238.992649    22.943139   658.541514
 0.75000    13.411065   37.576700     8.017665
238.976941    18.550322   704.585258
 1.00000    13.411065   37.584321     8.017665
238.962715    14.641475   750.831925

Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                        685

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -8.697618   -55.703781    -0.819782
-70.364849   -36.012832   -647.861897
 0.25000    -8.697618   -55.695162    -0.819782
-70.380665   -39.017059   -672.539188
 0.50000    -8.697618   -55.686764    -0.819782
-70.398370   -42.888704   -696.957805
 0.75000    -8.697618   -55.678733    -0.819782
-70.417627   -47.590049   -721.678871
 1.00000    -8.697618   -55.671247    -0.819782
-70.438003   -53.071596   -746.509114

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    17.926584   68.350390    11.177410
417.388487    43.659070    1113.098
 0.25000    17.926584   68.356403    11.177410
417.371559    39.491190    1208.064
 0.50000    17.926584   68.363098    11.177410
417.354758    35.157658    1303.953
 0.75000    17.926584   68.370331    11.177410
417.339116    24.632597    1402.151
 1.00000    17.926584   68.377945    11.177410
417.324953    19.823584    1501.826

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -22.208516  -122.862913    -3.776616
-94.754588   -74.719525   -1239.329
 0.25000   -22.208516  -122.854300    -3.776616
-94.770356   -75.498334   -1268.285
 0.50000   -22.208516  -122.845908    -3.776616
-94.788008   -77.889215   -1300.994
 0.75000   -22.208516  -122.837882    -3.776616
-94.807207   -81.835008   -1333.719
 1.00000   -22.208516  -122.830402    -3.776616
-94.827519   -87.651820   -1366.632

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    21.796280   98.247516    11.274012
502.691188    48.929401    1782.204
 0.25000    21.796280   98.312470    11.274012
502.506115    41.779657    1932.788
 0.50000    21.796280   98.384783    11.274012
502.326731    35.560457    2089.209
 0.75000    21.796280   98.462902    11.274012
502.157708    30.260183    2251.433
 1.00000    21.796280   98.545141    11.274012
502.004657    25.845308    2415.690

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -17.644724  -213.466436    -2.796180
-120.907108   -56.980398    -1775.374
 0.25000   -17.644724  -213.373413    -2.796180
-121.077462   -59.510559    -1803.396
 0.50000   -17.644724  -213.282770    -2.796180
-121.268178   -63.484629    -1836.702
 0.75000   -17.644724  -213.196083    -2.796180
-121.475607   -68.932987    -1870.046
 1.00000   -17.644724  -213.115282    -2.796180
-121.695065   -75.742241    -1903.495

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    33.120934   152.294124    12.548853
553.203078    82.839067    2433.133
 0.25000    33.120934   161.843062    12.548853
531.007074    75.658309    2647.981
 0.50000    33.120934   172.439502    12.548853
509.475134    70.095347    2851.745
 0.75000    33.120934   183.861320    12.548853
489.322263    65.895225    3046.354
 1.00000    33.120934   195.843299    12.548853
479.476891    63.232287    3225.928
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                        686

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -23.215652  -369.874127    -6.207527
-261.372556   -63.269805    -2175.379
 0.25000   -23.215652  -356.152988    -6.207527
-283.241110   -63.506347    -2181.713
 0.50000   -23.215652  -342.764793    -6.207527
-307.828160   -65.448725    -2165.156
 0.75000   -23.215652  -329.948606    -6.207527
-334.556554   -69.119519    -2139.100
 1.00000   -23.215652  -317.990794    -6.207527
-362.669840   -74.164044    -2188.716

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    23.629914   170.028596     9.493790
475.435802    86.515311    3093.747
 0.25000    23.629914   194.840684     9.493790
446.771452    86.963538    3299.058
 0.50000    23.629914   223.314158     9.493790
435.505592    88.787648    3492.954
 0.75000    23.629914   254.768788     9.493790
435.479618    92.881340    3668.767
 1.00000    23.629914   287.130178     9.493790
435.459085   100.089634    3834.733

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -17.723019  -506.441683   -10.667131
-586.860805   -66.414624    -1718.115
 0.25000   -17.723019  -476.397626   -10.667131
-586.860805   -65.807999    -1630.227
 0.50000   -17.723019  -446.788721   -10.667131
-586.860805   -66.542123    -1542.343
 0.75000   -17.723019  -418.446440   -10.667131
-586.860805   -69.683010    -1454.612
 1.00000   -17.723019  -391.993653   -10.667131
-586.860805   -75.291903    -1366.947

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    34.386179   203.172686    12.548853
553.203078    99.317419    3054.178
 0.25000    34.386179   220.889873    12.548853
531.007074    99.625389    3322.492
 0.50000    34.386179   240.360368    12.548853
509.475134   101.981042    3565.526
 0.75000    34.386179   261.155513    12.548853
502.157708   106.314336    3786.079
 1.00000    34.386179   282.699739    12.548853
502.004657   113.307382    3977.548

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -37.592092  -531.436841   -14.237499
-624.493791   -83.327534    -2289.401
 0.25000   -37.592092  -505.675235   -14.237499
-621.180859   -76.512636    -2275.849
 0.50000   -37.592092  -480.387370   -14.237499
-617.867927   -77.889215    -2277.278
 0.75000   -37.592092  -456.107417   -14.237499
-614.554995   -81.835008    -2278.598
 1.00000   -37.592092  -433.381723   -14.237499
-611.242063   -87.651820    -2280.041

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    34.386179   203.172686    12.548853
553.203078    99.317419    3093.747
 0.25000    34.386179   220.889873    12.548853
531.007074    99.625389    3322.492
 0.50000    34.386179   240.360368    12.548853
509.475134   101.981042    3565.526
 0.75000    34.386179   261.155513    12.548853
502.157708   106.314336    3786.079
 1.00000    34.386179   282.699739    12.548853
502.004657   113.307382    3977.548
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                        687

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -37.592092  -531.436841   -14.237499
-624.493791   -83.327534    -2289.401
 0.25000   -37.592092  -505.675235   -14.237499
-621.180859   -76.512636    -2275.849
 0.50000   -37.592092  -480.387370   -14.237499
-617.867927   -77.889215    -2277.278
 0.75000   -37.592092  -456.107417   -14.237499
-614.554995   -81.835008    -2278.598
 1.00000   -37.592092  -433.381723   -14.237499
-611.242063   -87.651820    -2280.041

 COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    34.386179   203.172686    12.548853
553.203078    99.317419    3093.747
 0.25000    34.386179   220.889873    12.548853
531.007074    99.625389    3322.492
 0.50000    34.386179   240.360368    12.548853
509.475134   101.981042    3565.526
 0.75000    34.386179   261.155513    12.548853
502.157708   106.314336    3786.079
 1.00000    34.386179   287.130178    12.548853
502.004657   113.307382    3977.548

 COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -37.592092  -531.436841   -14.237499
-624.493791   -83.327534    -2289.401
 0.25000   -37.592092  -505.675235   -14.237499
-621.180859   -76.512636    -2275.849
 0.50000   -37.592092  -480.387370   -14.237499
-617.867927   -77.889215    -2277.278
 0.75000   -37.592092  -456.107417   -14.237499
-614.554995   -81.835008    -2278.598
 1.00000   -37.592092  -433.381723   -14.237499
-611.242063   -87.651820    -2280.041

 ELEM      36 ================ LENGTH
=    4.987679

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    11.238811   144.835099     2.288706
107.313629    70.110805    2086.759
 0.25000    11.238811   166.627589     2.288706
107.313629    71.655699    2176.087
 0.50000    11.238811   190.530026     2.288706
107.313629    74.276547    2233.034
 0.75000    11.238811   216.010883     2.288706
107.313629    78.167122    2257.213
 1.00000    11.238811   241.550095     2.288706
107.313629    83.199588    2251.816

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -11.572785  -301.562204    -6.729397
-342.440595   -21.434608   -566.736701
 0.25000   -11.572785  -275.766824    -6.729397
-342.440595   -18.592886   -528.082277
 0.50000   -11.572785  -249.654575    -6.729397
-342.440595   -15.752175   -489.427854
 0.75000   -11.572785  -224.832439    -6.729397
-342.440595   -12.918456   -450.773434
 1.00000   -11.572785  -201.903860    -6.729397
-342.440595   -10.091211   -412.119175

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    23.198536   211.782114     5.005396
184.447802   101.035414    3372.252
 0.25000    23.198536   239.298375     5.005396
184.447802   101.877695    3477.849
 0.50000    23.198536   269.368112     5.005396
184.447802   104.553679    3558.304
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                        688

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000    23.198536   301.356888     5.005396
184.447802   108.974726    3622.096
 1.00000    23.198536   334.257891     5.005396
184.447802   114.999197    3665.129

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -14.603571  -435.908523    -8.814012
-463.352717   -27.514490   -997.626137
 0.25000   -14.603571  -402.714021    -8.814012
-463.352717   -24.315130   -931.288277
 0.50000   -14.603571  -369.982374    -8.814012
-463.352717   -21.136971   -864.950418
 0.75000   -14.603571  -338.824678    -8.814012
-463.352717   -18.062739   -798.612670
 1.00000   -14.603571  -309.957646    -8.814012
-463.352717   -15.112561   -732.278160

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    19.720453   206.902725     4.860882
277.698752    92.028458    3835.470
 0.25000    19.720453   232.170446     4.860882
277.698752    92.473955    3953.438
 0.50000    19.720453   259.776875     4.860882
277.698752    94.597662    4053.934
 0.75000    19.720453   289.139639     4.860882
277.698752    98.385385    4142.639
 1.00000    19.720453   319.403629     4.860882
277.698752   103.648841    4217.714

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -13.880996  -444.225192    -8.583337
-469.458004   -26.708931    -1295.697
 0.25000   -13.880996  -413.693714    -8.583337
-469.458004   -23.805820    -1213.287
 0.50000   -13.880996  -383.652880    -8.583337
-469.458004   -21.425868    -1130.877
 0.75000   -13.880996  -355.052744    -8.583337
-469.458004   -19.057286    -1048.467
 1.00000   -13.880996  -328.551195    -8.583337
-469.458004   -16.740137   -966.057285

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    19.818699   188.209431     6.506193
316.421568    80.153261    3614.190
 0.25000    19.818699   209.276110     6.506193
316.421568    79.701404    3728.730
 0.50000    19.818699   232.292480     6.506193
316.421568    80.680292    3829.700
 0.75000    19.818699   256.774201     6.506193
316.421568    83.132133    3921.704
 1.00000    19.818699   282.006793     6.506193
316.421568    87.441941    4003.244

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -17.257152  -392.207370    -9.026135
-410.759066   -50.081690    -1366.952
 0.25000   -17.257152  -366.750622    -9.026135
-410.759066   -47.284358    -1284.592
 0.50000   -17.257152  -341.704890    -9.026135
-410.759066   -45.259972    -1202.232
 0.75000   -17.257152  -317.860187    -9.026135
-410.759066   -44.006871    -1119.875
 1.00000   -17.257152  -295.765013    -9.026135
-410.759066   -43.412418    -1037.525

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    11.645920   47.962830     2.389272
138.032960    21.649967    1266.764
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                        689

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000    11.645920   47.975260     2.389272
137.991725    20.368484    1268.170
 0.50000    11.645920   47.988690     2.389272
137.957399    20.086220    1291.243
 0.75000    11.645920   48.002848     2.389272
137.924586    20.177307    1341.496
 1.00000    11.645920   48.018966     2.389272
137.896267    20.560794    1412.838

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.575892   -93.337583    -1.217598
-141.276320    -4.526610   -487.359541
 0.25000   -2.575892   -93.321384    -1.217598
-141.307112    -4.445187   -457.150017
 0.50000   -2.575892   -93.306991    -1.217598
-141.340600    -4.516820   -426.966650
 0.75000   -2.575892   -93.293202    -1.217598
-141.376191    -4.706221   -396.774288
 1.00000   -2.575892   -93.280324    -1.217598
-141.418651    -4.962443   -366.581939

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    10.783783   65.311855     3.629503
262.116756    22.149128    2295.120
 0.25000    10.783783   65.324286     3.629503
262.119521    20.888623    2029.891
 0.50000    10.783783   65.337715     3.629503
262.085195    20.145181    2079.662
 0.75000    10.783783   65.351874     3.629503
262.052382    19.807792    2161.103
 1.00000    10.783783   65.366983     3.629503
262.024063    20.040410    2268.539

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -7.671177  -137.359535    -2.926602
-178.563636   -17.960214   -898.815249
 0.25000    -7.671177  -137.343035    -2.926602
-178.594428   -17.629622   -846.368544
 0.50000    -7.671177  -137.328642    -2.926602
-178.627916   -17.715409   -793.921839
 0.75000    -7.671177  -137.314854    -2.926602
-178.663507   -17.715414   -741.475022
 1.00000    -7.671177  -137.301976    -2.926602
-178.705967   -19.261136   -689.044474

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    16.515011   168.737584     5.225931
331.147234    69.639627    3393.222
 0.25000    16.515011   190.116458     5.225931
303.674280    69.040222    3503.431
 0.50000    16.515011   213.348312     5.225931
272.942974    68.691032    3598.850
 0.75000    16.515011   237.954383     5.225931
264.747959    71.762819    3684.472
 1.00000    16.515011   264.581217     5.225931
264.747959    75.029123    3759.354

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -14.167055  -376.334784    -7.024715
-310.949155   -29.008371    -1256.999
 0.25000   -14.167055  -349.522917    -7.024715
-313.273643   -27.256970    -1179.599
 0.50000   -14.167055  -324.425804    -7.024715
-344.836252   -25.829079    -1102.199
 0.75000   -14.167055  -300.460882    -7.024715
-374.274483   -24.830538    -1024.802
 1.00000   -14.167055  -278.170165    -7.024715
-401.305749   -24.220917   -947.413444
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                        690

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    17.476062   156.086307     7.087784
```

```
355.624308    63.077892    3196.427
 0.25000   17.476062   173.893535     7.087784
332.741103    61.509009    3303.265
 0.50000   17.476062   193.244177     7.087784
307.143900    61.020939    3398.487
 0.75000   17.476062   213.739453     7.087784
300.317979    61.811313    3486.382
 1.00000   17.476062   235.917895     7.087784
300.317979    63.750544    3565.769

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -15.036880  -331.449349   -7.245150
-283.713825   -53.767239   -1325.176
 0.25000  -15.036880  -309.116786   -7.245150
-265.649973   -52.385392   -1248.452
 0.50000  -15.036880  -288.212503   -7.245150
-311.939599   -51.833802   -1171.729
 0.75000  -15.036880  -268.251263   -7.245150
-336.459754   -52.193326   -1095.007
 1.00000  -15.036880  -249.684528   -7.245150
-358.975062   -53.358958   -1018.291

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   6.004895   23.413126    4.455438
119.328363   11.430937   533.403517
 0.25000   6.004895   23.425563    4.455438
119.287007   11.431020   555.231470
 0.50000   6.004895   23.438998    4.455438
119.252621    7.426135   577.810599
 0.75000   6.004895   23.453163    4.455438
119.219749    5.546734   601.306893
 1.00000   6.004895   23.469291    4.455438
119.191198    3.780151   625.457845

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -6.225264  -25.442530   -1.633352
-40.632842   -46.814975   -417.201231
 0.25000  -6.225264  -25.426320   -1.633352
-40.663694   -47.632869   -399.627171
 0.50000  -6.225264  -25.411921   -1.633352
-40.697244   -49.184429   -382.053111
 0.75000  -6.225264  -25.398127   -1.633352
-40.732897   -51.501099   -364.479054
 1.00000  -6.225264  -25.385243   -1.633352
-40.775438   -54.522221   -346.905012

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   9.531671   43.440289    7.042089
227.482641   15.272820   1121.530
 0.25000   9.531671   43.452719    7.042089
227.441406   12.501704   1162.870
 0.50000   9.531671   43.466148    7.042089
227.407080    9.887326   1207.763
 0.75000   9.531671   43.480237    7.042089
227.374267    7.460546   1256.111
 1.00000   9.531671   43.496425    7.042089
227.345948    5.544159   1307.786

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -15.102814  -59.583326   -4.072364
-67.735183   -74.720981   -772.446002
 0.25000  -15.102814  -59.567127   -4.072364
-67.765974   -74.165361   -736.564359
 0.50000  -15.102814  -59.552734   -4.072364
-67.799463   -75.240128   -700.682716
 0.75000  -15.102814  -59.538946   -4.072364
-67.835054   -78.014922   -664.804589
 1.00000  -15.102814  -59.526067   -4.072364
-67.877514   -82.219417   -628.938968
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                691

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   10.753414   61.279942    6.673416
319.141181   1946.303
 0.25000   10.753414   61.291129    6.673416
319.104069   17.605970   1997.333
 0.50000   10.753414   61.303215    6.673416
319.073176   15.097913   2062.956
 0.75000   10.753414   61.315958    6.673416
319.043644   12.915701   2143.267
 1.00000   10.753414   61.330464    6.673416
319.018157   11.254045   2238.131

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -11.518432  -115.666883   -3.740678
-148.290558   -62.008956   -1103.325
 0.25000  -11.518432  -115.652304   -3.740678
-148.318270   -62.579199   -1046.561
 0.50000  -11.518432  -115.639351   -3.740678
-148.348410   -64.228156   -989.796466
 0.75000  -11.518432  -115.626941   -3.740678
-148.380442   -67.092603   -933.034673
 1.00000  -11.518432  -115.615351   -3.740678
-148.418656   -71.029493   -876.281462

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   17.805277   129.771043    7.769002
408.783228   52.064625   2853.865
 0.25000   17.805277   142.369875    7.769002
373.365199   49.611070   2942.241
 0.50000   17.805277   156.019704    7.769002
346.481124   47.157514   3028.120
 0.75000   17.805277   170.443248    7.769002
326.252638   47.337785   3116.551
 1.00000   17.805277   186.465864    7.769002
315.994174   47.566698   3205.093

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -14.428900  -269.034706   -5.898004
-233.807845   -59.360341   -1288.864
 0.25000  -14.428900  -252.916524   -5.898004
-258.669696   -59.063373   -1217.116
 0.50000  -14.428900  -238.230436   -5.898004
-281.826279   -59.670426   -1145.369
 0.75000  -14.428900  -224.183606   -5.898004
-309.433378   -61.297017   -1073.623
 1.00000  -14.428900  -211.090341   -5.898004
-346.687539   -63.869283   -1001.885

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   14.513374   144.599918    3.170370
132.015321   74.580818   2023.190
 0.25000   14.513374   161.554605    3.170370
133.425344   77.660622   2120.782
 0.50000   14.513374   180.131624    3.170370
133.880815   81.487518   2185.927
 0.75000   14.513374   199.818207    3.170370
133.880815   86.168523   2217.469
 1.00000   14.513374   220.034136    3.170370
133.880815   91.533241   2215.842

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -31.096019  -277.773427   -8.687343
-364.977030   -31.505538   -917.441745
 0.25000  -31.096019  -255.626864   -8.687343
-357.779471   -28.625339   -915.190397
 0.50000  -31.096019  -233.828642   -8.687343
-349.627361   -25.806354   -912.920829
 0.75000  -31.096019  -212.962217   -8.687343
-341.020091   -23.003010   -910.662592
 1.00000  -31.096019  -193.564214   -8.687343
-332.412510   -20.210345   -908.395649
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                692

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   33.756931   226.387580    6.542595
227.994520   115.923053   3330.910
 0.25000   33.756931   247.164163    6.542595
228.003366   118.218481   3455.581
 0.50000   33.756931   269.931559    6.542595
228.003366   121.370325   3551.619
 0.75000   33.756931   294.100985    6.542595
228.003366   125.548250   3624.010
 1.00000   33.756931   318.976340    6.542595
228.003366   130.602213   3665.108

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -35.236214  -414.426406  -10.855538
-474.990028   -41.343560   -1624.434
 0.25000  -35.236214  -387.300031  -10.855538
-471.686148   -38.674597   -1622.400
 0.50000  -35.236214  -360.655425  -10.855538
-468.373228   -36.084005   -1620.341
 0.75000  -35.236214  -335.204360  -10.855538
-465.060308   -33.595316   -1618.276
 1.00000  -35.236214  -311.566443  -10.855538
-461.747387   -31.239364   -1616.229

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   29.782832   241.809662    6.647353
316.776964   103.963892   3978.371
 0.25000   29.782832   260.898502    6.647353
316.776964   106.064100   4122.492
 0.50000   29.782832   281.819291    6.647353
316.776964   109.086547   4241.095
 0.75000   29.782832   304.031571    6.647353
316.776964   113.154644   4336.606
 1.00000   29.782832   326.898126    6.647353
316.776964   118.143126   4404.685

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -33.046725  -442.596242  -10.427462
-468.379761   -44.728120   -2155.668
 0.25000  -33.046725  -417.670915  -10.427462
-465.983687   -42.359125   -2158.023
 0.50000  -33.046725  -393.194569  -10.427462
-463.587766   -40.376351   -2160.323
 0.75000  -33.046725  -369.818888  -10.427462
-461.191844   -38.968938   -2162.650
 1.00000  -33.046725  -348.109097  -10.427462
-458.795923   -38.046258   -2164.985

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   29.887694   226.181805    8.285873
359.614123   91.591914   3859.797
 0.25000   29.887694   242.093221    8.285873
359.614123   92.243146   3996.951
 0.50000   29.887694   259.531651    8.285873
359.614123   93.848733   4112.889
 0.75000   29.887694   278.046596    8.285873
359.614123   96.477461   4209.699
 1.00000   29.887694   297.106910    8.285873
359.614123   100.211082   4284.112

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -37.275157  -402.405075  -10.616982
-416.809273   -69.025151   -2280.199
 0.25000  -37.275157  -381.628681  -10.616982
-414.812036   -66.707789   -2288.671
 0.50000  -37.275157  -361.226533  -10.616982
-412.814926   -65.109823   -2297.098
 0.75000  -37.275157  -341.741840  -10.616982
-410.817817   -64.456127   -2305.542
 1.00000  -37.275157  -323.645741  -10.616982
-408.820707   -64.599054   -2313.994
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                693

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   20.053169   70.439596    3.062330
137.791493   32.991408   1349.044
 0.25000   20.053169   70.446070    3.062330
137.773396   31.330203   1369.107
 0.50000   20.053169   70.453213    3.062330
137.756227   30.198117   1400.682
 0.75000   20.053169   70.460850    3.062330
137.739884   29.300966   1449.656
 1.00000   20.053169   70.468802    3.062330
137.725468   28.586795   1506.786

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -3.942168  -110.201680   -1.272079
-120.872288   -8.848450  -800.967772
 0.25000  -3.942168  -110.193181   -1.272079
-120.887953   -9.230178  -802.645854
 0.50000  -3.942168  -110.184942   -1.272079
-120.905397   -9.716798  -804.325576
 0.75000  -3.942168  -110.177142   -1.272079
-120.924145  -10.357077  -805.996406
 1.00000  -3.942168  -110.169966   -1.272079
-120.943702  -11.125257  -807.667806

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   18.077985   107.661363    4.422423
264.779777   29.321593   2282.976
 0.25000   18.077985   107.667837    4.422423
264.761671   27.899700   2333.296
 0.50000   18.077985   107.674981    4.422423
264.744294   26.879068   2395.576
 0.75000   18.077985   107.682618    4.422423
264.728143   26.289312   2473.280
 1.00000   18.077985   107.690572    4.422423
264.713720   26.120230   2561.588

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -11.160507  -173.081080   -2.961978
-155.967036   -27.834040   -1513.983
 0.25000  -11.160507  -173.072581   -2.961978
-155.982707   -27.577747   -1521.481
 0.50000  -11.160507  -173.064341   -2.961978
-156.000159   -28.188445   -1528.973
 0.75000  -11.160507  -173.056540   -2.961978
-156.018914   -29.375529   -1536.448
 1.00000  -11.160507  -173.049363   -2.961978
-156.038479   -31.017334   -1543.954

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   27.205647   207.457541    6.632808
361.632709   81.505869   3601.705
 0.25000   27.205647   224.407622    6.632808
332.400717   81.943408   3736.961
 0.50000   27.205647   243.051249    6.632808
304.035989   83.052898   3848.837
 0.75000   27.205647   262.913300    6.632808
283.280426   84.852294   3938.197
 1.00000   27.205647   283.483785    6.632808
283.118655   87.226173   4002.522

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -24.938471  -387.325094   -7.882503
-295.416054   -43.419122   -2090.278
 0.25000  -24.938471  -365.131968   -7.882503
-302.788474   -42.248091   -2095.547
 0.50000  -24.938471  -343.476566   -7.882503
-334.296298   -41.725265   -2100.802
 0.75000  -24.938471  -322.893267   -7.882503
-368.320070   -41.735375   -2106.060
 1.00000  -24.938471  -303.864201   -7.882503
-402.968695   -42.160959   -2111.376
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                694

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   29.197605   197.385179    8.879581
397.650775   74.716596   3513.926
 0.25000   29.197605   211.505820    8.879581
373.298415   73.587196   3642.141
 0.50000   29.197605   227.037307    8.879581
349.668550   73.255882   3750.853
 0.75000   29.197605   243.583829    8.879581
332.377667   73.634238   3841.012
 1.00000   29.197605   260.720528    8.879581
332.242901   74.608792   3910.494

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -26.741390  -352.811890   -8.003275
-278.344421   -69.657164   -2231.654
 0.25000  -26.741390  -334.323414   -8.003275
-284.486179   -69.212576   -2244.004
 0.50000  -26.741390  -316.282901   -8.003275
-310.734471   -68.598213   -2256.344
 0.75000  -26.741390  -299.135527   -8.003275
-339.078729   -71.332618   -2268.684
 1.00000  -26.741390  -283.282942   -8.003275
-367.943534   -73.362629   -2281.075

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   13.152405   37.341819    5.922467
146.845638   15.130079   750.046089
 0.25000   13.152405   37.348295    5.922467
146.827508   12.189064   771.846197
 0.50000   13.152405   37.355441    5.922467
146.810106    9.554156   793.663862
 0.75000   13.152405   37.363081    5.922467
146.793931    7.072279   815.890897
 1.00000   13.152405   37.371036    5.922467
146.779487    4.758052   838.206775

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.424511  -43.135479   -1.913679
-54.119664   -53.332960   -746.289137
 0.25000   -8.424511  -43.126976   -1.913679
-54.135356   -55.053296   -759.137733
 0.50000   -8.424511  -43.118734   -1.913679
-54.152829   -57.347264   -772.003884
 0.75000   -8.424511  -43.110931   -1.913679
-54.171608   -60.131127   -784.873936
 1.00000   -8.424511  -43.103752   -1.913679
-54.191196   -63.345253   -797.740747

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   17.491479   70.141155    8.700686
265.015461   20.615957   1501.486
 0.25000   17.491479   70.147626    8.700686
264.997401   16.591431   1545.291
 0.50000   17.491479   70.154766    8.700686
264.980062   13.140343   1590.556
 0.75000   17.491479   70.162399    8.700686
264.963952   10.154191   1636.799
 1.00000   17.491479   70.170348    8.700686
264.949566    7.578643   1684.579

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -21.972908  -92.562705   -4.577044
-86.385051   -87.668276   -1366.380
 0.25000  -21.972908  -92.554210   -4.577044
-86.400689   -88.043370   -1382.881
 0.50000  -21.972908  -92.545974   -4.577044
-86.418104   -89.416106   -1399.398
 0.75000  -21.972908  -92.538176   -4.577044
-86.436821   -92.239775   -1415.916
 1.00000  -21.972908  -92.531003   -4.577044
-86.456345   -96.042102   -1430.609
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                695

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   21.507307   108.174642    8.556130
347.567771   26.970674   2414.225
 0.25000   21.507307   108.244538    8.556130
347.372628   23.240316   2481.258
 0.50000   21.507307   108.321662    8.556130
347.185276   20.154088   2553.518
 0.75000   21.507307   108.404108    8.556130
347.011200   17.579765   2631.000
 1.00000   21.507307   108.489964    8.556130
346.855755   15.462169   2712.711

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -17.398418  -161.959101   -3.955345
-145.684423   -76.134102   -1903.302
 0.25000  -17.398418  -161.867340   -3.955345
-145.853384   -77.904387   -1923.126
 0.50000  -17.398418  -161.778386   -3.955345
-146.041549   -80.580292   -1943.119
 0.75000  -17.398418  -161.694182   -3.955345
-146.243777   -84.283726   -1963.104
 1.00000  -17.398418  -161.616684   -3.955345
-146.454725   -88.779695   -1983.098

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   32.766483   174.376561    9.897951
436.477111   65.039202   3225.097
 0.25000   32.766483   184.653769    9.897951
412.728830   62.108648   3334.763
 0.50000   32.766483   195.975554    9.897951
389.848023   59.930872   3432.868
 0.75000   32.766483   208.060448    9.897951
368.678136   58.322352   3520.970
 1.00000   32.766483   220.613765    9.897951
350.012512   57.292505   3596.129

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -22.804969  -300.361665   -6.451115
-242.300780   -75.277453   -2188.647
 0.25000  -22.804969  -286.888017   -6.451115
-263.510564   -76.348430   -2204.601
 0.50000  -22.804969  -273.787924   -6.451115
-287.315753   -78.230198   -2220.538
 0.75000  -22.804969  -261.361419   -6.451115
-312.949692   -81.017860   -2236.464
 1.00000  -22.804969  -249.906771   -6.451115
-339.567269   -84.535267   -2252.417

 COMB      DB ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   23.198536   211.782114    7.769002
408.783228   101.035414   3835.470
 0.25000   23.198536   239.298375    7.769002
373.365199   101.877695   3953.438
 0.50000   23.198536   269.368112    7.769002
346.481124   104.553679   4053.934
 0.75000   23.198536   301.356828    7.769002
326.252638   108.974726   4142.639
 1.00000   23.198536   334.257891    7.769002
319.018157   114.999197   4217.714

 COMB      DB ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -17.257152  -444.225192   -9.026135
-469.458004   -74.720981   -1366.952
 0.25000  -17.257152  -413.693714   -9.026135
-469.458004   -74.165361   -1284.592
 0.50000  -17.257152  -383.652880   -9.026135
-469.458004   -75.240128   -1202.232
 0.75000  -17.257152  -355.052744   -9.026135
-469.458004   -78.014922   -1119.875
 1.00000  -17.257152  -328.551195   -9.026135
-469.458004   -82.219417   -1037.525
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                696

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB      DL ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   33.756931   241.809662    9.897951
436.477111   115.923053   3978.371
 0.25000   33.756931   260.898502    9.897951
412.728830   118.218481   4122.492
 0.50000   33.756931   281.819291    9.897951
389.848023   121.370325   4241.095
 0.75000   33.756931   304.031571    9.897951
368.678136   125.548250   4336.606
 1.00000   33.756931   326.898126    9.897951
359.614123   130.602213   4404.685

 COMB      DL ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -37.275157  -442.596242  -10.855538
-474.990028   -87.668276   -2280.199
 0.25000  -37.275157  -417.670915  -10.855538
-471.686148   -88.043370   -2288.671
 0.50000  -37.275157  -393.194569  -10.855538
-468.373228   -89.416106   -2297.098
 0.75000  -37.275157  -369.818888  -10.855538
-465.060308   -92.239775   -2305.542
 1.00000  -37.275157  -348.109097  -10.855538
-461.747387   -96.042102   -2313.994

 COMB      CAR ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   33.756931   241.809662    9.897951
436.477111   115.923053   3978.371
 0.25000   33.756931   260.898502    9.897951
412.728830   118.218481   4122.492
 0.50000   33.756931   281.819291    9.897951
389.848023   121.370325   4241.095
 0.75000   33.756931   304.031571    9.897951
368.678136   125.548250   4336.606
 1.00000   33.756931   334.257891    9.897951
359.614123   130.602213   4404.685

 COMB      CAR ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -37.275157  -444.225192  -10.855538
-474.990028   -87.668276   -2280.199
 0.25000  -37.275157  -417.670915  -10.855538
-471.686148   -88.043370   -2288.671
 0.50000  -37.275157  -393.194569  -10.855538
-469.458004   -89.416106   -2297.098
 0.75000  -37.275157  -369.818888  -10.855538
-469.458004   -92.239775   -2305.542
 1.00000  -37.275157  -348.109097  -10.855538
-469.458004   -96.042102   -2313.994

 COMB      DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   33.756931   241.809662    9.897951
436.477111   115.923053   3978.371
 0.25000   33.756931   260.898502    9.897951
412.728830   118.218481   4122.492
 0.50000   33.756931   281.819291    9.897951
389.848023   121.370325   4241.095
 0.75000   33.756931   304.031571    9.897951
368.678136   125.548250   4336.606
 1.00000   33.756931   334.257891    9.897951
359.614123   130.602213   4404.685

 COMB      DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -37.275157  -444.225192  -10.855538
-474.990028   -87.668276   -2280.199
 0.25000  -37.275157  -417.670915  -10.855538
-471.686148   -88.043370   -2288.671
```

```
 0.50000   -37.275157  -393.194569  -10.855538
-469.458004   -89.416106   -2297.098
 0.75000   -37.275157  -369.818888  -10.855538
-469.458004   -92.239775   -2305.542
 1.00000   -37.275157  -348.109097  -10.855538
-469.458004   -96.042102   -2313.994
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD          >
                        697

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       37 ================== LENGTH
=     4.987874

 COMB DB-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.806099  170.754808    4.567861
223.595228    83.525337   2252.475
 0.25000    10.806099  193.352711    4.567861
223.595228    81.749396   2302.718
 0.50000    10.806099  218.032803    4.567861
223.595228    81.036487   2318.590
 0.75000    10.806099  244.215756    4.567861
223.595228    81.748799   2305.457
 1.00000    10.806099  270.324133    4.567861
223.595228    83.526979   2258.865

 COMB DB-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.606586  -272.593293   -4.534277
-222.807115   -10.411470   -411.963625
 0.25000   -11.606586  -246.479343   -4.534277
-222.807115    -8.908774   -377.886461
 0.50000   -11.606586  -220.279109   -4.534277
-222.807115    -9.027079   -386.298076
 0.75000   -11.606586  -195.570369   -4.534277
-222.807115    -10.669134   -425.339279
 1.00000   -11.606586  -172.932288   -4.534277
-222.807115   -12.323941   -464.380481

 COMB DB-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    22.804230  256.844967    6.361530
323.868385   115.462069   3665.762
 0.25000    22.804230  285.305108    6.361530
323.868385   113.103332   3702.603
 0.50000    22.804230  316.286502    6.361530
323.868385   112.285543   3710.527
 0.75000    22.804230  349.097374    6.361530
323.868385   113.245366   3708.034
 1.00000    22.804230  382.655604    6.361530
323.868385   115.743526   3677.791

 COMB DB-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.574751  -386.661035   -6.410187
-321.996757   -15.646834   -732.057941
 0.25000   -14.574751  -353.094650   -6.410187
-321.996757   -14.257368   -672.520705
 0.50000   -14.574751  -320.263777   -6.410187
-321.996757   -14.897196   -688.702662
 0.75000   -14.574751  -289.248311   -6.410187
-321.996757   -17.039620   -756.993213
 1.00000   -14.574751  -260.740681   -6.410187
-321.996757   -19.206408   -825.283763

 COMB DB-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    19.423828  262.452944    6.394804
378.268054  104.356804   4218.174
 0.25000    19.423828  288.581845    6.394804
378.268054  101.590477   4244.794
 0.50000    19.423828  317.020260    6.394804
378.268054  100.367830   4251.343
 0.75000    19.423828  347.133147    6.394804
378.268054  101.410833   4252.474
 1.00000    19.423828  377.996326    6.394804
378.268054  104.497267   4234.730

 COMB DB-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -13.706256  -383.191048   -6.600312
-375.523219   -17.411283   -965.884245
 0.25000   -13.706256  -352.320375   -6.600312
-375.523219   -16.283148   -889.500158
 0.50000   -13.706256  -322.189203   -6.600312
-375.523219   -16.997365   -914.504186
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD          >
                        698

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   -13.706256  -293.719656   -6.600312
-375.523219   -19.042363   -1002.527
 1.00000   -13.706256  -267.547224   -6.600312
-375.523219   -21.095648   -1090.551

 COMB DB-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    19.353600  233.691108    7.313859
355.762093   87.809667   4003.455
 0.25000    19.353600  255.475622    7.313859
355.762093   85.436594   4025.777
 0.50000    19.353600  279.185496    7.313859
355.762093   84.561831   4031.721
 0.75000    19.353600  304.291281    7.313859
355.762093   85.579174   4034.078
 1.00000    19.353600  330.024512    7.313859
355.762093   88.289479   4021.295

 COMB DB-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -17.183393  -332.685551   -7.619944
-353.027541   -43.926224   -1037.461
 0.25000   -17.183393  -306.946072   -7.619944
-353.027541   -41.906765   -957.967620
 0.50000   -17.183393  -281.825044   -7.619944
-353.027541   -42.021992   -989.337547
 0.75000   -17.183393  -258.089218   -7.619944
-353.027541   -43.951183   -1081.461
 1.00000   -17.183393  -236.268414   -7.619944
-353.027541   -46.493954   -1173.584

 COMB DB-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    11.764894  69.387685    1.219758
144.841644   20.737033   1412.788
 0.25000    11.764894  69.400404    1.219758
144.799309   20.554304   1381.206
 0.50000    11.764894  69.414117    1.219758
144.763825   20.560812   1367.787
 0.75000    11.764894  69.428528    1.219758
144.730400   20.734552   1384.549
 1.00000    11.764894  69.444835    1.219758
144.700179   21.103346   1419.575

 COMB DB-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.548834  -71.377216   -1.313354
-143.339665   -5.207641  -366.542503
 0.25000   -2.548834  -71.360905   -1.313354
-143.369872   -5.543266  -338.031239
 0.50000   -2.548834  -71.346487   -1.313354
-143.403226   -5.899947  -348.083697
 0.75000   -2.548834  -71.332763   -1.313354
-143.438696   -6.272067  -380.981873
 1.00000   -2.548834  -71.320024   -1.313354
-143.481019   -6.656170  -413.880063

 COMB DB-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.861393  95.792876    2.780003
228.032337   20.341300   2268.324
 0.25000    10.861393  95.805595    2.780003
227.990002   19.419484   2229.884
 0.50000    10.861393  95.819308    2.780003
227.954518   18.889458   2215.969
 0.75000    10.861393  95.833719    2.780003
227.921094   19.306153   2236.027
 1.00000    10.861393  95.850226    2.780003
227.890872   20.602120   2281.015

 COMB DB-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.526115  -98.709788   -3.095461
-225.529467   -19.599838   -689.064707
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD          >
                        699

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -7.526115  -98.693476   -3.095461
-225.559673   -19.397087   -637.266539
 0.50000   -7.526115  -98.679059   -3.095461
-225.593027   -19.558857   -659.533557
 0.75000   -7.526115  -98.665335   -3.095461
-225.628497   -20.122965   -719.177262
 1.00000   -7.526115  -98.652196   -3.095461
-225.670820   -21.046506   -779.900980

 COMB DB-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    16.272260  216.593973    5.609734
370.974746   75.519105   3759.388
 0.25000    16.272260  238.589279    5.609734
344.081568   73.462907   3782.169
 0.50000    16.272260  262.420853    5.609734
314.673900   72.477015   3787.995
 0.75000    16.272260  287.564984    5.609734
283.112031   73.404633   3789.916
 1.00000    16.272260  314.611022    5.609734
280.770276   75.830917   3775.830

 COMB DB-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -13.759029  -319.002044   -5.903441
-277.982248   -24.765333   -947.320374
 0.25000   -13.759029  -291.948392   -5.903441
-280.115386   -23.651863   -873.857799
 0.50000   -13.759029  -266.791233   -5.903441
-311.936985   -24.356293   -901.704586
 0.75000   -13.759029  -242.936413   -5.903441
-341.119055   -25.905554   -985.610405
 1.00000   -13.759029  -220.905711   -5.903441
-368.010650   -27.780165   -1070.526

 COMB DB-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    17.045103  194.998493    6.641328
340.551579   64.375136   3565.624
 0.25000    17.045103  213.319170    6.641328
318.151289   62.125158   3584.781
 0.50000    17.045103  233.169340    6.641328
293.656591   61.066223   3590.158
 0.75000    17.045103  254.112785    6.641328
267.367582   62.022399   3593.083
 1.00000    17.045103  276.640398    6.641328
265.417051   64.243476   3583.271

 COMB DB-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.447376  -277.875106   -7.023923
-262.857249   -53.792187   -1018.305
 0.25000   -14.447376  -255.341152   -7.023923
-264.634016   -51.979547   -941.978037
 0.50000   -14.447376  -234.386854   -7.023923
-290.939459   -52.161388   -975.467552
 0.75000   -14.447376  -214.517322   -7.023923
-315.446153   -53.611651   -1064.213
 1.00000   -14.447376  -196.167163   -7.023923
-337.845124   -55.820065   -1152.966

 COMB DB-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.060060  21.787806    2.981358
43.837458    4.060658  625.187959
 0.25000    6.060060  21.800531    2.981358
43.795044    2.907797  625.625309
 0.50000    6.060060  21.814249    2.981358
43.759498    1.833517  626.670906
 0.75000    6.060060  21.826667    2.981358
43.725983    2.223218  628.514382
 1.00000    6.060060  21.844984    2.981358
43.695703    3.125312  631.192289
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD          >
                        700

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.873670  -18.467226   -3.200418
-43.553629   -54.491465   -347.050909
 0.25000   -5.873670  -18.450903   -3.200418
-43.583894   -53.150482   -324.512028
 0.50000   -5.873670  -18.436480   -3.200418
-43.617338   -52.557187   -341.852468
 0.75000   -5.873670  -18.422750   -3.200418
-43.652869   -52.778132   -368.751782
 1.00000   -5.873670  -18.410005   -3.200418
-43.695272   -53.754960   -395.651108

 COMB DB-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.088958  42.967772    5.237878
107.877815   5.829750   1307.336
 0.25000    9.088958  42.980491    5.237878
107.835480   4.343262   1305.279
 0.50000    9.088958  42.994204    5.237878
107.799996   3.299201   1305.375
 0.75000    9.088958  43.008615    5.237878
107.766572   3.748000   1310.623
 1.00000    9.088958  43.024922    5.237878
107.736350   4.836367   1318.420

 COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.785977  -39.304079   -5.614253
-106.835190   -82.137081   -629.157489
 0.25000   -14.785977  -39.287768   -5.614253
-106.865397   -79.539295   -586.725210
 0.50000   -14.785977  -39.273350   -5.614253
-106.898751   -78.371547   -615.640889
 0.75000   -14.785977  -39.259626   -5.614253
-106.934220   -78.898617   -665.959598
 1.00000   -14.785977  -39.246887   -5.614253
-106.976544   -80.865457   -716.278320

 COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.495374  81.239024    4.974345
203.434904   11.792194   2237.664
 0.25000    10.495374  81.250471    4.974345
203.396802   10.036826   2219.644
 0.50000    10.495374  81.262813    4.974345
203.364867   8.593577   2215.281
 0.75000    10.495374  81.275783    4.974345
203.334785   9.175917   2227.320
 1.00000    10.495374  81.290459    4.974345
203.307585   10.944179   2253.436

 COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.043824  -79.677647   -5.451149
-201.364405   -71.236470   -876.469138
 0.25000   -11.043824  -79.662966   -5.451149
-201.391591   -69.545874   -814.601456
 0.50000   -11.043824  -79.649990   -5.451149
-201.421610   -68.935004   -849.970244
 0.75000   -11.043824  -79.637638   -5.451149
-201.453532   -69.519275   -922.688032
 1.00000   -11.043824  -79.626174   -5.451149
-201.491623   -71.208382   -995.405831

 COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    17.672871  162.926664    6.257548
351.808264   48.161871   3204.752
 0.25000    17.672871  175.852297    6.257548
315.595369   45.974914   3209.798
 0.50000    17.672871  189.821675    6.257548
286.527901   44.442834   3210.695
 0.75000    17.672871  204.530943    6.257548
263.429311   45.338024   3218.131
 1.00000    17.672871  220.772016    6.257548
238.530653   47.612189   3227.310
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD          >
                        701

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -13.866101  -220.946628   -6.696471
-236.143121   -64.229149   -1001.964
 0.25000   -13.866101  -204.700610   -6.696471
-260.954221   -62.510986   -928.395237
 0.50000   -13.866101  -189.984488   -6.696471
-284.062618   -62.556351   -963.822729
 0.75000   -13.866101  -176.002416   -6.696471
-313.115912   -63.683497   -1049.643
 1.00000   -13.866101  -163.056385   -6.696471
-349.260356   -65.731324   -1135.472

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.967743  169.881845    5.561763
228.765581   92.937265   2216.278
 0.25000    13.967743  188.169393    5.561763
234.604961   91.507511   2260.141
 0.50000    13.967743  208.011751    5.561763
239.460669   90.805734   2270.743
 0.75000    13.967743  228.890427    5.561763
243.254520   90.955766   2246.952
 1.00000    13.967743  250.236239    5.561763
246.064774   91.829597   2189.844

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -30.926676  -241.897782   -5.128807
-240.274407   -21.144878   -908.446218
 0.25000   -30.926676  -220.470296   -5.128807
-237.505870   -20.827382   -914.164835
 0.50000   -30.926676  -199.505283   -5.128807
-233.753686   -21.108437   -919.935777
 0.75000   -30.926676  -179.583747   -5.128807
-228.939594   -21.956597   -925.682718
 1.00000   -30.926676  -161.212953   -5.128807
-223.141931   -22.823755   -931.429398

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    33.211315  270.805135    7.751697
342.984154   132.320378   3665.589
 0.25000    33.211315  293.136067    7.751697
346.297204   130.711724   3696.477
 0.50000    33.211315  317.378303    7.751697
348.860861   129.948109   3697.448
 0.75000    33.211315  342.939989    7.751697
349.657747   130.224235   3673.237
 1.00000    33.211315  369.133787    7.751697
349.657747   131.351849   3618.970

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -34.916082  -354.486384   -7.234399
-340.209412   -32.805900   -1616.295
 0.25000   -34.916082  -328.187958   -7.234399
-340.209412   -32.530083   -1626.176
 0.50000   -34.916082  -302.538515   -7.234399
-339.460047   -33.101144   -1636.220
 0.75000   -34.916082  -278.188437   -7.234399
-336.943855   -34.321316   -1646.168
 1.00000   -34.916082  -255.767754   -7.234399
-333.630806   -35.649692   -1656.155

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    29.312613  297.995797    7.727578
385.565813   119.680086   4404.981
 0.25000    29.312613  318.505358    7.727578
387.961828   117.943830   4428.588
 0.50000    29.312613  340.774701    7.727578
389.945598   117.165163   4424.926
 0.75000    29.312613  364.259862    7.727578
390.391307   117.658203   4397.515
 1.00000    29.312613  388.332202    7.727578
390.391307   119.274058   4342.782
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD          >
                        702

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -32.724577  -368.862355   -7.233448
-380.810870   -39.180265   -2165.067
 0.25000   -32.724577  -344.694837   -7.233448
-380.810870   -38.642698   -2178.045
 0.50000   -32.724577  -321.129291   -7.233448
-380.398644   -39.382661   -2191.165
 0.75000   -32.724577  -298.761250   -7.233448
-378.448318   -40.842128   -2204.181
 1.00000   -32.724577  -278.168803   -7.233448
-376.052303   -42.513710   -2217.288

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    29.254085  276.107571    8.618278
368.894421   101.387497   4284.184
 0.25000    29.254085  293.203223    8.618278
370.891609   99.570404   4300.079
 0.50000    29.254085  311.765733    8.618278
372.545171   98.973173   4293.338
 0.75000    29.254085  331.341683    8.618278
372.916690   99.536947   4266.782
 1.00000    29.254085  351.407074    8.618278
372.916690   101.133577   4217.631

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -36.906451  -329.886863   -8.251977
-366.527863   -65.384859   -2314.056
 0.25000   -36.906451  -309.742137   -8.251977
-366.527863   -64.232361   -2327.647
 0.50000   -36.906451  -290.099183   -8.251977
-366.184254   -64.658194   -2341.358
 0.75000   -36.906451  -271.454403   -8.251977
-364.558569   -66.103687   -2354.980
 1.00000   -36.906451  -254.289662   -8.251977
-362.561381   -68.095369   -2368.679

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    20.162516  91.767869    1.560428
137.050785   28.770661   1506.744
 0.25000    20.162516  91.774713    1.560428
137.032028   28.624103   1481.630
 0.50000    20.162516  91.782210    1.560428
137.014016   28.667614   1467.964
 0.75000    20.162516  91.790174    1.560428
136.997255   28.886063   1470.178
 1.00000    20.162516  91.798437    1.560428
136.982211   29.238636   1483.806

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.877359  -84.634849   -1.495128
-133.694051   -11.619188   -807.687892
 0.25000   -3.877359  -84.626567   -1.495128
-133.709049   -11.772606   -812.424486
 0.50000   -3.877359  -84.618579   -1.495128
-133.725783   -12.063131   -817.177436
 0.75000   -3.877359  -84.611056   -1.495128
-133.743790   -12.442903   -821.899181
 1.00000   -3.877359  -84.604179   -1.495128
-133.762561   -12.921691   -826.598586

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    18.075595  141.690918    3.143245
213.606552   26.173956   2561.350
 0.25000    18.075595  141.697763    3.143245
213.587787   25.577675   2531.627
 0.50000    18.075595  141.705261    3.143245
213.569767   25.489360   2512.792
 0.75000    18.075595  141.713226    3.143245
213.552999   25.949077   2509.568
 1.00000    18.075595  141.721490    3.143245
213.537948   26.994076   2517.277
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD          >
                        703

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.032739  -127.991576   -3.073546
-210.059063   -31.134204   -1543.993
 0.25000   -11.032739  -127.983264   -3.073546
-210.074069   -30.929231   -1552.915
 0.50000   -11.032739  -127.975305   -3.073546
-210.090811   -31.289259   -1561.840
 0.75000   -11.032739  -127.967781   -3.073546
-210.108825   -32.108483   -1570.720
 1.00000   -11.032739  -127.960904   -3.073546
-210.127605   -33.362850   -1579.640

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    26.836839  257.597964    6.514656
377.146183   88.195061   4002.592
 0.25000    26.836839  275.659784    6.514656
344.969475   87.147097   4023.797
 0.50000    26.836839  295.361315    6.514656
313.765344   86.771001   4020.132
 0.75000    26.836839  316.214462    6.514656
285.500493   87.177409   3993.526
 1.00000    26.836839  337.724830    6.514656
279.598913   88.319083   3941.992

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -24.527728  -318.820538   -6.188081
-271.964385   -43.035947   -2111.442
 0.25000   -24.527728  -297.250996   -6.188081
-277.170877   -42.681250   -2123.914
 0.50000   -24.527728  -276.330075   -6.188081
-305.907540   -43.378701   -2136.409
 0.75000   -24.527728  -256.552538   -6.188081
-337.057118   -44.671722   -2148.897
 1.00000   -24.527728  -238.401842   -6.188081
-369.208688   -46.355563   -2161.457

 COMB DL-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    28.632370  241.406380    7.678272
358.295674   75.534679   3910.376
 0.25000    28.632370  256.453179    7.678272
331.490153   73.986411   3924.149
 0.50000    28.632370  272.865977    7.678272
305.494859   73.435331   3917.314
 0.75000    28.632370  290.238153    7.678272
281.531663   73.975977   3891.383
 1.00000    28.632370  308.157842    7.678272
277.031756   75.274635   3844.942

 COMB DL-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -26.126011  -286.638003   -7.505519
-273.325395   -74.133883   -2281.105
 0.25000   -26.126011  -268.669018   -7.505519
-277.662778   -72.935038   -2294.257
```

```
 0.50000   -26.126011  -251.240380    -7.505519
-301.602493   -73.160333   -2307.431
 0.75000   -26.126011  -234.764265    -7.505519
-327.552340   -74.379660   -2320.593
 1.00000   -26.126011  -219.643425    -7.505519
-354.336918   -76.268469   -2333.823

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   12.920139   39.736442    3.631067
65.539787    4.935567   837.940947
0.25000   12.920139   39.743289    3.631067
65.520995    3.574353   832.028373
0.50000   12.920139   39.750789    3.631067
65.502952    2.731937   826.274463
0.75000   12.920139   39.758756    3.631067
65.486162    1.911950   820.505114
1.00000   12.920139   39.767023    3.631067
65.471088    4.098352   815.098741
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          704

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -7.993968  -31.196495    -3.828382
-70.407093   -63.535867   -797.688211
0.25000   -7.993968  -31.188210    -3.828382
-70.422120   -61.873488   -801.642737
0.50000   -7.993968  -31.180218    -3.828382
-70.438884   -61.010304   -805.796463
0.75000   -7.993968  -31.172692    -3.828382
-70.456923   -61.210700   -810.280211
1.00000   -7.993968  -31.165813    -3.828382
-70.475727   -62.162234   -814.766674

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   16.934970   79.042772    6.158846
132.920336    7.647572    1684.109
0.25000   16.934970   79.049614    6.158846
132.901612    5.786404    1673.098
0.50000   16.934970   79.057108    6.158846
132.883636    4.893540    1662.593
0.75000   16.934970   79.065069    6.158846
132.866901    5.431093    1652.365
1.00000   16.934970   79.073329    6.158846
132.851885    6.818892    1642.931

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -21.472872  -64.595216    -6.354587
-138.459930   -95.891900   -1430.567
0.25000  -21.472872  -64.586938    -6.354587
-138.474899   -93.201074   -1438.255
0.50000  -21.472872  -64.578953    -6.354587
-138.491604   -92.016237   -1445.950
0.75000  -21.472872  -64.571433    -6.354587
-138.509578   -92.708421   -1453.922
1.00000  -21.472872  -64.564559    -6.354587
-138.528315   -94.674343   -1464.283

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   21.142216  134.992650    5.746897
212.400749   15.571671    2712.215
0.25000   21.142216  135.066548    5.746897
212.198440   13.937585    2690.809
0.50000   21.142216  135.147496    5.746897
212.004216   13.182654    2673.938
0.75000   21.142216  135.233480    5.746897
211.823398   13.890453    2662.324
1.00000   21.142216  135.322693    5.746897
211.661145   15.536314    2655.503

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -16.906370  -116.127942    -5.897186
-214.613273   -88.829279   -1983.078
0.25000  -16.906370  -116.038531    -5.897186
-214.775017   -87.041289   -1994.042
0.50000  -16.906370  -115.952283    -5.897186
-214.955508   -86.524080   -2005.006
0.75000  -16.906370  -115.871055    -5.897186
-215.149718   -87.340656   -2015.954
1.00000  -16.906370  -115.796809    -5.897186
-215.352174   -89.182049   -2026.938

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   32.375363  212.958896    7.351483
356.109838   57.931886    3595.863
0.25000   32.375363  223.860451    7.351483
330.965811   56.211382    3597.451
0.50000   32.375363  235.781731    7.351483
306.757906   55.445431    3586.499
0.75000   32.375363  248.421451    7.351483
284.286606   56.052011    3565.143
1.00000   32.375363  261.503814    7.351483
264.346832   57.649228    3531.339
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          705

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -22.180680  -240.121615    -7.334035
-263.137707   -85.200015   -2252.418
0.25000  -22.180680  -227.006585    -7.334035
-283.032139   -83.604153   -2265.182
0.50000  -22.180680  -214.326308    -7.334035
-305.456749   -83.461959   -2277.969
0.75000  -22.180680  -202.361901    -7.334035
-329.661623   -84.534547   -2290.723
1.00000  -22.180680  -191.408418    -7.334035
-354.798012   -86.528548   -2303.565

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   22.804230   262.452944    7.313859
378.268054   115.462069    4218.174
0.25000   22.804230   288.581845    7.313859
378.268054   113.103332    4244.794
0.50000   22.804230   317.020260    7.313859
378.268054   112.285543    4251.343
0.75000   22.804230   349.097374    7.313859
378.268054   113.245366    4252.474
1.00000   22.804230   382.655604    7.313859
378.268054   115.743526    4234.730

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -17.183393  -386.661035    -7.619944
-375.523219   -82.137081   -1037.461
0.25000  -17.183393  -353.094650    -7.619944
-375.523219   -79.539295   -957.967620
 0.50000  -17.183393  -322.189203    -7.619944
-375.523219   -78.371547  -989.337547
 0.75000  -17.183393  -293.719656    -7.619944
-375.523219   -78.898617   -1081.461
 1.00000  -17.183393  -267.547224    -7.619944
-375.523219   -80.865457   -1173.584

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   33.211315   297.995797    8.618278
385.565813   132.370078   4404.981
0.25000   33.211315   318.505358    8.618278
387.961828   130.711724   4428.588
0.50000   33.211315   340.774701    8.618278
389.945598   129.948109   4424.926
0.75000   33.211315   364.259862    8.618278
390.391307   130.224235   4397.515
1.00000   33.211315   388.332202    8.618278
390.391307   131.351849   4342.782

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -36.906451  -368.862355    -8.251977
-380.810870   -95.891900   -2314.056
0.25000  -36.906451  -344.694837    -8.251977
-380.810870   -93.201074   -2327.647
0.50000  -36.906451  -321.129291    -8.251977
-380.398644   -92.016237   -2341.358
0.75000  -36.906451  -298.761250    -8.251977
-378.448318   -92.708421   -2354.980
1.00000  -36.906451  -278.168803    -8.251977
-376.052303   -94.674343   -2368.679

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   33.211315   297.995797    8.618278
385.565813   132.370078   4404.981
0.25000   33.211315   318.505358    8.618278
387.961828   130.711724   4428.588
0.50000   33.211315   340.774701    8.618278
389.945598   129.948109   4424.926
0.75000   33.211315   364.259862    8.618278
390.391307   130.224235   4397.515
1.00000   33.211315   388.332202    8.618278
390.391307   131.351849   4342.782
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          706

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -36.906451  -386.661035    -8.251977
-380.810870   -95.891900   -2314.056
0.25000  -36.906451  -353.094650    -8.251977
-380.810870   -93.201074   -2327.647
0.50000  -36.906451  -322.189203    -8.251977
-380.398644   -92.016237   -2341.358
0.75000  -36.906451  -298.761250    -8.251977
-378.448318   -92.708421   -2354.980
1.00000  -36.906451  -278.168803    -8.251977
-376.052303   -94.674343   -2368.679

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   33.211315   297.995797    8.618278
385.565813   132.370078   4404.981
0.25000   33.211315   318.505358    8.618278
387.961828   130.711724   4428.588
0.50000   33.211315   340.774701    8.618278
389.945598   129.948109   4424.926
0.75000   33.211315   364.259862    8.618278
390.391307   130.224235   4397.515
1.00000   33.211315   388.332202    8.618278
390.391307   131.351849   4342.782

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -36.906451  -386.661035    -8.251977
-380.810870   -95.891900   -2314.056
0.25000  -36.906451  -353.094650    -8.251977
-380.810870   -93.201074   -2327.647
0.50000  -36.906451  -322.189203    -8.251977
-380.398644   -92.016237   -2341.358
0.75000  -36.906451  -298.761250    -8.251977
-378.448318   -92.708421   -2354.980
1.00000  -36.906451  -278.168803    -8.251977
-376.052303   -94.674343   -2368.679

ELEM     38 ================== LENGTH
=     4.987099

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.392770   199.548045    6.803012
343.076377   83.472462    2258.312
0.25000   10.392770   222.473539    6.803012
343.076377   78.236292    2267.402
0.50000   10.392770   247.302879    6.803012
343.076377   74.092440    2246.790
0.75000   10.392770   273.434342    6.803012
343.076377   71.162394    2193.246
1.00000   10.392770   299.260043    6.803012
343.076377   69.300294    2107.086

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -11.688414  -243.803194    -1.993908
-106.645585   -12.213854   -464.507767
0.25000  -11.688414  -218.211794    -1.993908
-106.645585   -14.813855   -508.358059
0.50000  -11.688414  -192.667538    -1.993908
-106.645585   -17.427814   -552.233447
0.75000  -11.688414  -168.691547    -1.993908
-106.645585   -20.049648   -596.132577
1.00000  -11.688414  -146.813933    -1.993908
-106.645585   -22.683616   -640.031717

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   22.432701   305.723202    8.807433
465.034392   115.505161    3677.244
0.25000   22.432701   334.585783    8.807433
465.034392   109.325040    3640.900
0.50000   22.432701   365.752484    8.807433
465.034392   104.676642    3583.444
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          707

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.75000   22.432701   398.506246    8.807433
465.034392   101.704315    3509.067
1.00000   22.432701   431.738304    8.807433
465.034392   100.493565    3409.070

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -14.627071  -338.044187    -4.816620
-182.793177   -19.175557   -825.460931
0.25000  -14.627071  -305.081652    -4.816620
-182.793177   -22.068801   -900.851076
0.50000  -14.627071  -273.017004    -4.816620
-182.793177   -25.007046   -976.288970
0.75000  -14.627071  -242.857871    -4.816620
-182.793177   -27.979242   -1051.753
1.00000  -14.627071  -215.238552    -4.816620
-182.793177   -30.992151   -1127.225

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   19.092695   322.961250    8.485788
471.835272   103.29547    4234.505
0.25000   19.092695   349.458809    8.485788
471.835272   98.708394    4167.621
0.50000   19.092695   378.067163    8.485788
471.835272   94.947383    4087.460
0.75000   19.092695   408.128244    8.485788
471.835272   92.806734    3995.067
1.00000   19.092695   438.694078    8.485788
471.835272   92.295207    3884.613

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -13.604570  -322.269961    -4.805879
-275.339621   -21.147897   -1090.694
0.25000  -13.604570  -291.949808    -4.805879
-275.339621   -23.516500   -1185.025
0.50000  -13.604570  -262.517597    -4.805879
-275.339621   -25.915540   -1279.397
0.75000  -13.604570  -234.829370    -4.805879
-275.339621   -28.340905   -1373.790
1.00000  -13.604570  -209.467417    -4.805879
-275.339621   -30.789085   -1468.189

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   18.843888   289.809016    8.890004
412.557976   87.303595    4021.072
0.25000   18.843888   311.900867    8.890004
412.557976   83.136882    3948.496
0.50000   18.843888   335.752420    8.890004
412.557976   80.272629    3855.577
0.75000   18.843888   360.815031    8.890004
412.557976   79.109711    3773.306
1.00000   18.843888   386.300419    8.890004
412.557976   79.512653    3666.934

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -17.165666  -282.150212    -6.612013
-314.066667   -46.691682   -1173.643
0.25000  -17.165666  -256.869605    -6.612013
-314.066667   -47.102100   -1268.792
0.50000  -17.165666  -232.331190    -6.612013
-314.066667   -48.160507   -1363.975
0.75000  -17.165666  -209.246631    -6.612013
-314.066667   -50.021632   -1459.176
1.00000  -17.165666  -188.101398    -6.612013
-314.066667   -52.567896   -1554.386

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.881706   91.133110    1.087788
142.697727   20.829709    1419.559
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          708

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.25000   11.881706   91.145989    1.087788
142.655293   20.641633    1351.583
0.50000   11.881706   91.159780    1.087788
142.619726   20.666372    1304.351
0.75000   11.881706   91.174180    1.087788
142.586256   21.050532    1284.375
1.00000   11.881706   91.190395    1.087788
142.555479   22.061137    1285.768

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -2.560057  -49.618715    -2.535928
-136.789393   -6.768677  -413.911189
0.25000   -2.560057  -49.602577    -2.535928
-136.817485   -6.806097  -448.526175
0.50000   -2.560057  -49.588390    -2.535928
-136.850291   -6.885507  -483.155855
0.75000   -2.560057  -49.574928    -2.535928
-136.884616   -6.991262  -517.788375
1.00000   -2.560057  -49.562461    -2.535928
-136.925784   -7.119436  -552.428297

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.872161   133.307638    2.743186
180.592643   19.837509    2281.106
0.25000   10.872161   133.320517    2.743186
180.550210   19.981693    2179.510
0.50000   10.872161   133.334308    2.743186
180.514642   20.594610    2104.184
0.75000   10.872161   133.348709    2.743186
180.481172   21.706886    2060.234
1.00000   10.872161   133.364923    2.743186
180.450395   23.390452    2041.443

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -7.388116  -64.937524    -3.958324
-260.077282   -21.275847  -779.890604
0.25000   -7.388116  -64.921387    -3.958324
-260.105374   -20.473804  -840.738111
0.50000   -7.388116  -64.907200    -3.958324
-260.138181   -20.066652  -901.599296
0.75000   -7.388116  -64.893738    -3.958324
-260.172505   -20.161753  -962.463125
1.00000   -7.388116  -64.881271    -3.958324
-260.213673   -20.645962   -1023.334

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   15.985417   272.687920    6.875315
403.586292   75.041361    3775.795
0.25000   15.985417   294.977499    6.875315
376.571829   72.034647    3709.190
0.50000   15.985417   318.948384    6.875315
347.171421   70.067538    3631.913
0.75000   15.985417   344.060498    6.875315
315.646917   69.588428    3544.467
1.00000   15.985417   370.900053    6.875315
313.208894   70.371157    3441.702

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -13.382120  -266.168337    -5.356748
-262.378317   -27.956759   -1070.606
0.25000  -13.382120  -239.500271    -5.356748
-262.378317   -28.658608   -1159.625

 0.50000  -13.382120  -214.840781    -5.356748
-270.428073   -29.716673   -1248.685
 0.75000  -13.382120  -191.545598    -5.356748
-301.142325   -31.229038   -1337.752
 1.00000  -13.382120  -170.094990    -5.356748
-328.607323   -33.092999   -1426.824
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          709

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   16.556001   243.836833    7.029553
360.298563   63.347406    3583.384
0.25000   16.556001   262.402620    7.029553
337.797251   61.311046    3512.806
0.50000   16.556001   282.368828    7.029553
313.308601   60.332306    3431.793
0.75000   16.556001   303.285605    7.029553
287.050714   60.737701    3347.170
1.00000   16.556001   325.641230    7.029553
285.019997   62.281363    3248.471

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -13.874180  -234.793432    -7.359544
-298.133704   -56.148300   -1152.961
0.25000   -13.874180  -212.580646    -7.359544
-298.133704   -54.830617   -1242.145
0.50000   -13.874180  -192.040876    -7.359544
-304.838634   -54.291721   -1331.364
0.75000   -13.874180  -172.637485    -7.359544
-330.421632   -54.704333   -1420.588
1.00000   -13.874180  -154.770507    -7.359544
-353.298211   -55.948452   -1509.839

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   6.129757   23.431080    1.473341
39.514228    3.040643   631.412177
0.25000   6.129757   23.443965    1.473341
39.471714    4.569369   610.175647
0.50000   6.129757   23.457762    1.473341
39.436085    6.211416   589.717415
0.75000   6.129757   23.472168    1.473341
39.402553    7.933884   569.946210
1.00000   6.129757   23.488394    1.473341
39.371716    9.713250   550.898219

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.509891  -19.924476    -4.712800
-119.039199   -54.057211   -395.531974
0.25000   -5.509891  -19.908327    -4.712800
-119.067522   -50.676039   -417.273616
0.50000   -5.509891  -19.894135    -4.712800
-119.100388   -48.009670   -439.015293
0.75000   -5.509891  -19.880666    -4.712800
-119.134771   -46.132550   -460.785815
1.00000   -5.509891  -19.868193    -4.712800
-119.176061   -45.016355   -482.620337

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   8.993978   55.987310    3.887249
66.860126    4.432053    1318.763
0.25000   8.993978   56.000189    3.887249
66.817692    6.168423    1272.353
0.50000   8.993978   56.013980    3.887249
66.782125    8.291523    1229.472
0.75000   8.993978   56.028680    3.887249
66.748654   10.690432    1189.747
1.00000   8.993978   56.044595    3.887249
66.717878   13.414155    1153.477

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -14.456464  -37.182258    -7.464844
-226.547969   -81.330406   -716.106823
0.25000  -14.456464  -37.166121    -7.464844
-226.576061   -76.533898   -759.624609
0.50000  -14.456464  -37.151934    -7.464844
-226.608868   -73.162891   -803.142975
0.75000  -14.456464  -37.138472    -7.464844
-226.643192   -71.549404   -846.685216
1.00000  -14.456464  -37.126005    -7.464844
-226.684360   -71.599998   -890.282199
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          710

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.538599   110.614753    3.444501
148.562510   10.261427    2253.745
0.25000   10.538599   110.626344    3.444501
148.524320   11.951512    2166.316
0.50000   10.538599   110.638756    3.444501
148.492309   14.066830    2093.608
0.75000   10.538599   110.651716    3.444501
148.462186   16.594867    2035.345
1.00000   10.538599   110.666309    3.444501
148.434487   19.549386    1991.261

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -10.554423  -57.082626    -7.169678
-317.379724   -71.693010   -995.259972
0.25000   -10.554423  -57.068102    -7.169678
-317.405006   -67.516721   -1062.684
0.50000   -10.554423  -57.055334    -7.169678
-317.434532   -64.438158   -1130.110
0.75000   -10.554423  -57.043210    -7.169678
-317.465424   -62.627488   -1197.556
1.00000   -10.554423  -57.031997    -7.169678
-317.502476   -61.949589   -1265.051

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   17.791657   205.337492    5.623127
347.543082   46.927521    3222.582
0.25000   17.791657   218.430822    5.623127
310.310931   46.692065    3142.692
0.50000   17.791657   232.490846    5.623127
282.677229   47.199084    3063.041
0.75000   17.791657   247.175049    5.623127
259.542288   48.798770    2985.570
1.00000   17.791657   263.309146    5.623127
234.697135   51.251792    2905.134

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -13.311378  -184.208454    -8.175440
-314.023168   -66.158456   -1135.411
0.25000   -13.311378  -168.163602    -8.175440
-324.449616   -63.397958   -1219.345
```

0.50000 -13.311378 -153.710303 -8.175440
-344.668872 -61.559008 -1303.310
0.75000 -13.311378 -140.025063 -8.175440
-371.346663 -60.782405 -1387.294
1.00000 -13.311378 -127.386552 -8.175440
-406.755880 -60.954272 -1471.322

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.450583 202.171862 8.701506
335.539450 92.665451 2189.357
0.25000 13.450583 221.501300 8.701506
344.146030 86.585617 2177.552
0.50000 13.450583 242.287153 8.701506
352.752213 81.178089 2132.518
0.75000 13.450583 264.021449 8.701506
360.923292 76.602289 2053.946
1.00000 13.450583 286.117973 8.701506
368.141925 72.725809 1943.036

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -30.715065 -211.298063 -2.128706
-128.023622 -23.313884 -931.329598
0.25000 -30.715065 -190.982432 -2.128706
-128.023622 -26.519358 -945.512406
0.50000 -30.715065 -171.206320 -2.128706
-128.023622 -29.741097 -959.694498
0.75000 -30.715065 -152.533097 -2.128706
-127.588122 -32.978992 -973.914153
1.00000 -30.715065 -135.466281 -2.128706
-126.200176 -36.256947 -987.979364
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
711

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 32.744963 326.333809 10.745600
467.702287 132.035210 3618.407
0.25000 32.744963 349.887333 10.745600
471.014821 126.296087 3553.613
0.50000 32.744963 375.249570 10.745600
474.327356 121.430681 3457.684
0.75000 32.744963 401.813689 10.745600
477.639891 117.577164 3338.007
1.00000 32.744963 428.890943 10.745600
480.946279 114.500961 3189.762

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -34.549297 -303.549550 -5.252114
-218.497803 -36.479822 -1655.999
0.25000 -34.549297 -278.554015 -5.252114
-218.497803 -39.564009 -1678.503
0.50000 -34.549297 -254.281082 -5.252114
-218.497803 -42.775803 -1701.080
0.75000 -34.549297 -231.396775 -5.252114
-218.497803 -46.081391 -1723.676
1.00000 -34.549297 -210.484919 -5.252114
-218.491862 -49.461939 -1746.147

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 28.873988 367.227838 10.317140
464.412210 119.344396 4342.410
0.25000 28.873988 388.857053 10.317140
466.807853 114.142087 4242.747
0.50000 28.873988 412.151314 10.317140
469.203495 109.861106 4115.829
0.75000 28.873988 436.553959 10.317140
471.599138 106.620221 3965.764
1.00000 28.873988 461.434220 10.317140
473.994936 104.270835 3790.153

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -32.279644 -306.223618 -5.407812
-306.637409 -42.996702 -2217.173
0.25000 -32.279644 -283.247071 -5.407812
-306.637409 -45.384243 -2241.419
0.50000 -32.279644 -260.940008 -5.407812
-306.637409 -47.995450 -2265.742
0.75000 -32.279644 -239.912230 -5.407812
-306.637409 -50.833306 -2290.087
1.00000 -32.279644 -220.699573 -5.407812
-306.637409 -53.856237 -2314.304

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 28.589397 343.321203 10.608359
411.626888 100.677617 4217.514
0.25000 28.589397 361.350138 10.608359
413.623765 96.536511 4109.492
0.50000 28.589397 380.766964 10.608359
415.620643 93.750843 3979.333
0.75000 28.589397 401.107678 10.608359
417.617520 92.104262 3829.861
1.00000 28.589397 421.846507 10.608359
419.614526 91.441481 3659.177

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -36.347043 -273.784827 -7.437496
-352.216872 -68.161249 -2368.641
0.25000 -36.347043 -254.632830 -7.437496
-352.216872 -68.961457 -2387.771
0.50000 -36.347043 -236.038878 -7.437496
-352.216872 -70.594808 -2406.960
0.75000 -36.347043 -218.511269 -7.437496
-352.216872 -73.004769 -2426.174
1.00000 -36.347043 -202.496645 -7.437496
-352.216872 -75.988468 -2445.288
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
712

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.331258 117.005318 1.181156
123.343216 28.830507 1483.808
0.25000 20.331258 117.012473 1.181156
123.323604 29.762743 1414.999
0.50000 20.331258 117.022051 1.181156
123.304881 30.915085 1354.797
0.75000 20.331258 117.028472 1.181156
123.287429 32.286017 1311.481
1.00000 20.331258 117.036964 1.181156
123.271726 33.932839 1279.758

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.812755 -62.814895 -2.935883
-134.374420 -13.081779 -826.565411
0.25000 -3.812755 -62.806913 -2.935883
-134.388800 -12.771634 -834.469174
0.50000 -3.812755 -62.799248 -2.935883
-134.404915 -12.610257 -842.381399
0.75000 -3.812755 -62.792075 -2.935883
-134.422267 -12.555139 -850.295185
1.00000 -3.812755 -62.785567 -2.935883
-134.440355 -12.576224 -858.188982

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.060989 185.774227 2.934699
157.853704 26.019446 2517.477
0.25000 18.060989 185.781383 2.934699
157.834083 26.821864 2406.868
0.50000 18.060989 185.789162 2.934699
157.815352 28.017032 2307.191
0.75000 18.060989 185.797384 2.934699
157.797894 29.673414 2222.720
1.00000 18.060989 185.805876 2.934699
157.782184 31.717542 2150.155

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.786658 -92.372884 -4.280158
-260.597351 -33.091110 -1579.651
0.25000 -10.786658 -92.364901 -4.280158
-260.611738 -32.416065 -1590.066
0.50000 -10.786658 -92.357236 -4.280158
-260.627860 -32.170890 -1600.488
0.75000 -10.786658 -92.350062 -4.280158
-260.645222 -32.471096 -1610.929
1.00000 -10.786658 -92.343552 -4.280158
-260.663318 -33.133074 -1621.349

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.478136 322.059732 7.794786
407.746396 87.862748 3941.904
0.25000 26.478136 341.021979 7.794786
373.017792 85.662346 3846.960
0.50000 26.478136 361.545080 7.794786
339.041350 84.002257 3727.193
0.75000 26.478136 383.140749 7.794786
307.469195 83.044133 3584.687
1.00000 26.478136 405.324700 7.794786
300.068988 82.734460 3419.001

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -23.968355 -262.859633 -5.803382
-274.958561 -46.568495 -2161.393
0.25000 -23.968355 -242.209150 -5.803382
-275.116272 -47.325400 -2181.495
0.50000 -23.968355 -222.260963 -5.803382
-295.748941 -48.482014 -2201.646
0.75000 -23.968355 -203.535509 -5.803382
-324.072110 -50.133722 -2221.759
1.00000 -23.968355 -186.482084 -5.803382
-353.274201 -52.107320 -2241.816
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
713

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 28.003005 302.098376 7.927751
369.008815 74.353702 3845.077
0.25000 28.003005 317.895296 7.927751
340.077380 73.156760 3742.628
0.50000 28.003005 334.992520 7.927751
311.772552 73.099941 3619.823
0.75000 28.003005 352.983372 7.927751
285.470668 73.799916 3478.156
1.00000 28.003005 371.464104 7.927751
279.305762 75.261324 3317.149

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.282904 -237.385193 -8.437052
-327.322670 -76.141738 -2333.838
0.25000 -25.282904 -220.181851 -8.437052
-327.454055 -74.577316 -2347.969
0.50000 -25.282904 -203.563201 -8.437052
-344.042557 -74.149739 -2362.137
0.75000 -25.282904 -187.963916 -8.437052
-368.237802 -74.475180 -2376.273
1.00000 -25.282904 -173.757182 -8.437052
-392.565252 -75.494741 -2390.380

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.590982 48.542841 1.861196
48.896503 3.215422 815.428625
0.25000 12.590982 48.549998 1.861196
48.876858 5.574829 781.833201
0.50000 12.590982 48.557779 1.861196
48.858104 8.439488 748.442011
0.75000 12.590982 48.566003 1.861196
48.840623 11.412330 715.326215
1.00000 12.590982 48.574498 1.861196
48.824893 14.684004 682.223517

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.398044 -27.977680 -6.349886
-150.409654 -61.690547 -811.874275
0.25000 -7.398044 -27.969695 -6.349886
-150.424063 -58.074176 -809.964473
0.50000 -7.398044 -27.962027 -6.349886
-150.440209 -55.240097 -805.052648
0.75000 -7.398044 -27.954851 -6.349886
-150.457595 -52.850043 -800.148558
1.00000 -7.398044 -27.948340 -6.349886
-150.475718 -51.025974 -795.333743

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.312782 102.864069 4.679261
80.200762 5.499181 1643.472
0.25000 16.312782 102.871221 4.679261
80.181186 8.174076 1575.421
0.50000 16.312782 102.878997 4.679261
80.162493 11.678133 1508.987
0.75000 16.312782 102.887215 4.679261
80.145071 15.625242 1443.288
1.00000 16.312782 102.895703 4.679261
80.129394 20.116888 1378.093

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -20.695770 -53.258618 -9.240766
-268.902568 -93.780817 -1464.440
0.25000 -20.695770 -53.250640 -9.240766
-268.916919 -89.696575 -1465.918
0.50000 -20.695770 -53.242978 -9.240766
-268.933002 -87.018192 -1464.360
0.75000 -20.695770 -53.235808 -9.240766
-268.950321 -85.676750 -1463.041
1.00000 -20.695770 -53.229302 -9.240766
-268.968373 -85.349576 -1461.597
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
714

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.748261 176.741900 3.937697
141.854280 13.827421 2656.048
0.25000 20.748261 176.819153 3.937697
141.642765 16.460733 2545.921
0.50000 20.748261 176.903137 3.937697
141.440804 19.971103 2440.369
0.75000 20.748261 176.991900 3.937697
141.252561 23.900798 2339.758
1.00000 20.748261 177.083579 3.937697
141.083181 28.408896 2244.391

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.136897 -87.129532 -8.917120
-347.809621 -88.323730 -2027.075
0.25000 -16.136897 -87.043358 -8.917120
-347.964684 -84.173566 -2028.694
0.50000 -16.136897 -86.960606 -8.917120
-348.138466 -81.261386 -2030.329
0.75000 -16.136897 -86.883162 -8.917120
-348.325606 -79.213184 -2031.983
1.00000 -16.136897 -86.812886 -8.917120
-348.520665 -78.039212 -2033.835

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 31.991277 267.948343 6.360707
338.723967 56.328160 3531.652
0.25000 31.991277 279.368340 6.360707
312.019782 57.626517 3424.111
0.50000 31.991277 291.757457 6.360707
286.407568 59.847988 3303.936
0.75000 31.991277 304.826931 6.360707
262.606215 62.580202 3173.421
1.00000 31.991277 318.290643 6.360707
241.346397 66.015529 3031.495

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -21.307488 -197.171518 -9.812657
-347.498768 -86.185491 -2303.597
0.25000 -21.307488 -184.569068 -9.812657
-366.120747 -83.191209 -2313.160
0.50000 -21.307488 -172.437660 -9.812657
-387.252491 -81.295400 -2322.750
0.75000 -21.307488 -161.062351 -9.812657
-410.108635 -80.192653 -2341.998
1.00000 -21.307488 -150.732737 -9.812657
-433.844431 -79.873766 -2358.103

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.432701 322.961250 8.890004
471.835272 115.505161 4234.305
0.25000 22.432701 349.458809 8.890004
471.835272 109.325040 4167.621
0.50000 22.432701 378.067163 8.890004
471.835272 104.676642 4087.460
0.75000 22.432701 408.128244 8.890004
471.835272 101.704315 3995.067
1.00000 22.432701 438.694078 8.890004
471.835272 100.493565 3884.613

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.165666 -338.044187 -8.175440
-317.379724 -81.330406 -1173.643
0.25000 -17.165666 -305.081652 -8.175440
-324.449616 -76.533898 -1268.792
0.50000 -17.165666 -273.017004 -8.175440
-344.668872 -73.162891 -1363.975
0.75000 -17.165666 -242.857871 -8.175440
-371.346663 -71.549404 -1459.176
1.00000 -17.165666 -215.238552 -8.175440
-406.755880 -71.599998 -1554.386
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
715

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 32.744963 367.227838 10.745600
467.702287 132.035210 4342.410
0.25000 32.744963 388.857053 10.745600
471.014821 126.296087 4242.747
0.50000 32.744963 412.151314 10.745600
474.327356 121.430681 4115.829
0.75000 32.744963 436.553959 10.745600
477.639891 117.577164 3965.764
1.00000 32.744963 461.434220 10.745600
480.946279 114.500961 3790.153

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -36.347043 -306.223618 -9.812657
-352.216872 -93.780817 -2368.641
0.25000 -36.347043 -283.247071 -9.812657
-366.125747 -89.696575 -2387.771
0.50000 -36.347043 -260.940008 -9.812657
-387.252491 -87.018192 -2406.960
0.75000 -36.347043 -239.912230 -9.812657
-410.108635 -85.676750 -2426.174
1.00000 -36.347043 -220.699573 -9.812657
-433.844431 -85.349576 -2445.288

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 32.744963 367.227838 10.745600
471.835272 132.035210 4342.410
0.25000 32.744963 388.857053 10.745600
471.835272 126.296087 4242.747
0.50000 32.744963 412.151314 10.745600
474.327356 121.430681 4115.829
0.75000 32.744963 436.553959 10.745600
477.639891 117.577164 3965.067
1.00000 32.744963 461.434220 10.745600
480.946279 114.500961 3884.613

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -36.347043 -338.044187 -9.812657
-352.216872 -93.780817 -2368.641
0.25000 -36.347043 -305.081652 -9.812657
-366.125747 -89.696575 -2387.771
0.50000 -36.347043 -273.017004 -9.812657
-387.252491 -87.018192 -2406.960
0.75000 -36.347043 -242.857871 -9.812657
-410.108635 -85.676750 -2426.174
1.00000 -36.347043 -220.699573 -9.812657
-433.844431 -85.349576 -2445.288

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 32.744963 367.227838 10.745600
471.835272 132.035210 4342.410
0.25000 32.744963 388.857053 10.745600
471.835272 126.296087 4242.747
0.50000 32.744963 412.151314 10.745600
474.327356 121.430681 4115.829
0.75000 32.744963 436.553959 10.745600
477.639891 117.577164 3965.067
1.00000 32.744963 461.434220 10.745600
480.946279 114.500961 3884.613

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -36.347043 -338.044187 -9.812657
-352.216872 -93.780817 -2368.641
0.25000 -36.347043 -305.081652 -9.812657
-366.125747 -89.696575 -2387.771
0.50000 -36.347043 -273.017004 -9.812657
-387.252491 -87.018192 -2406.960
0.75000 -36.347043 -242.857871 -9.812657
-410.108635 -85.676750 -2426.174
1.00000 -36.347043 -220.699573 -9.812657
-433.844431 -85.349576 -2445.288

Page
< MOVING LOAD >
716

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 39 ========== LENGTH = 4.987497

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.990882 230.118546 8.718699
459.218009 68.868764 2105.909
0.25000 9.990882 253.012261 8.718699
459.218009 60.558903 2074.213
0.50000 9.990882 277.658891 8.718699
459.218009 53.409939 2013.835
0.75000 9.990882 303.483897 8.718699
459.218009 47.222556 1921.075
1.00000 9.990882 328.974305 8.718699
459.218009 42.319126 1795.833

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.827833 -214.253825 -0.403265
-52.983023 -22.411994 -640.035880
0.25000 -11.827833 -189.042577 -0.403265
-52.983023 -26.119421 -693.955849
0.50000 -11.827833 -163.892974 -0.403265
-52.983023 -29.829794 -747.876462
0.75000 -11.827833 -140.273833 -0.403265
-52.983023 -33.546003 -801.797077
1.00000 -11.827833 -118.692678 -0.403265
-52.983023 -37.263282 -855.717693

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.058037 357.531670 11.016888
590.134077 99.657449 3407.851
0.25000 22.058037 386.394028 11.016888
590.134077 91.566720 3297.368
0.50000 22.058037 417.336003 11.016888
590.134077 87.073742 3169.794
0.75000 22.058037 449.679122 11.016888
590.134077 84.510162 3025.162
1.00000 22.058037 482.440049 11.016888
590.134077 83.567459 2855.708

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.763069 -289.493523 -3.827801
-143.695708 -30.653925 -1127.229
0.25000 -14.763069 -257.017791 -3.827801
-143.695708 -34.655553 -1218.872
0.50000 -14.763069 -225.434306 -3.827801
-143.695708 -38.700100 -1306.517
0.75000 -14.763069 -195.761573 -3.827801
-143.695708 -42.802921 -1396.166
1.00000 -14.763069 -168.578705 -3.827801
-143.695708 -46.919863 -1485.815

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.685046 386.391951 10.135675
542.654098 90.903067 3883.808
0.25000 18.685046 412.892209 10.135675
542.654098 82.995841 3724.649
0.50000 18.685046 441.294672 10.135675
542.654098 77.872753 3550.973
0.75000 18.685046 470.976819 10.135675
542.654098 74.568819 3366.038
1.00000 18.685046 501.106487 10.135675
542.654098 72.976246 3164.951

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.576294 -279.313302 -3.628560
-267.065947 -30.413956 -1188.180
0.25000 -13.576294 -249.440572 -3.628560
-267.065947 -33.434107 -1574.708
0.50000 -13.576294 -220.449141 -3.628560
-267.065947 -36.512989 -1681.236
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
717

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.00000 32.744963 367.227838 10.745600
471.835272 132.035210 4342.410
0.25000 32.744963 388.857053 10.745600
471.835272 126.296087 4242.747
0.50000 32.744963 412.151314 10.745600
474.327356 121.430681 4115.829
0.75000 32.744963 436.553959 10.745600
477.639891 117.577164 3965.067
1.00000 32.744963 461.434220 10.745600
480.946279 114.500961 3884.613

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -36.347043 -338.044187 -9.812657
-352.216872 -93.780817 -2368.641
0.25000 -36.347043 -305.081652 -9.812657
-366.125747 -89.696575 -2387.771
0.50000 -36.347043 -273.017004 -9.812657
-387.252491 -87.018192 -2406.960
0.75000 -36.347043 -242.857871 -9.812657
-410.108635 -85.676750 -2426.174
1.00000 -36.347043 -220.699573 -9.812657
-433.844431 -85.349576 -2445.288
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
716

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 39 ========== LENGTH = 4.987497

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.990882 230.118546 8.718699
459.218009 68.868764 2105.909
0.25000 9.990882 253.012261 8.718699
459.218009 60.558903 2074.213
0.50000 9.990882 277.658891 8.718699
459.218009 53.409939 2013.835
0.75000 9.990882 303.483897 8.718699
459.218009 47.222556 1921.075
1.00000 9.990882 328.974305 8.718699
459.218009 42.319126 1795.833

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.827833 -214.253825 -0.403265
-52.983023 -22.411994 -640.035880
0.25000 -11.827833 -189.042577 -0.403265
-52.983023 -26.119421 -693.955849
0.50000 -11.827833 -163.892974 -0.403265
-52.983023 -29.829794 -747.876462
0.75000 -11.827833 -140.273833 -0.403265
-52.983023 -33.546003 -801.797077
1.00000 -11.827833 -118.692678 -0.403265
-52.983023 -37.263282 -855.717693

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.058037 357.531670 11.016888
590.134077 99.657449 3407.851
0.25000 22.058037 386.394028 11.016888
590.134077 91.566720 3297.368
0.50000 22.058037 417.336003 11.016888
590.134077 87.073742 3169.794
0.75000 22.058037 449.679122 11.016888
590.134077 84.510162 3025.162
1.00000 22.058037 482.440049 11.016888
590.134077 83.567459 2855.708

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.763069 -289.493523 -3.827801
-143.695708 -30.653925 -1127.229
0.25000 -14.763069 -257.017791 -3.827801
-143.695708 -34.655553 -1218.872
0.50000 -14.763069 -225.434306 -3.827801
-143.695708 -38.700100 -1306.517
0.75000 -14.763069 -195.761573 -3.827801
-143.695708 -42.802921 -1396.166
1.00000 -14.763069 -168.578705 -3.827801
-143.695708 -46.919863 -1485.815

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.685046 386.391951 10.135675
542.654098 90.903067 3883.808
0.25000 18.685046 412.892209 10.135675
542.654098 82.995841 3724.649
0.50000 18.685046 441.294672 10.135675
542.654098 77.872753 3550.973
0.75000 18.685046 470.976819 10.135675
542.654098 74.568819 3366.038
1.00000 18.685046 501.106487 10.135675
542.654098 72.976246 3164.951

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.576294 -279.313302 -3.628560
-267.065947 -30.413956 -1188.180
0.25000 -13.576294 -249.440572 -3.628560
-267.065947 -33.434107 -1574.708
0.50000 -13.576294 -220.449141 -3.628560
-267.065947 -36.512989 -1681.236
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
717

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -13.576294 -193.209681 -3.628560
-267.065947 -40.202142 -1787.765
1.00000 -13.576294 -168.253705 -3.628560
-267.065947 -44.058680 -1894.293

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.261477 353.067012 10.459387
473.332709 78.284414 3666.707
0.25000 18.261477 375.161200 10.459387
473.332709 72.786604 3501.145
0.50000 18.261477 398.841108 10.459387
473.332709 69.663363 3324.505
0.75000 18.261477 423.587732 10.459387
473.332709 68.135096 3139.856
1.00000 18.261477 448.709366 10.459387
473.332709 68.134176 2942.446

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.187003 -246.489130 -5.983515
-351.023294 -52.562339 -1554.369
0.25000 -17.187003 -221.581568 -5.983515
-351.023294 -53.501416 -1655.357
0.50000 -17.187003 -197.410618 -5.983515
-351.023294 -55.336026 -1756.381
0.75000 -17.187003 -174.700276 -5.983515

```
-351.023294  -59.085466  -1857.405
 1.00000  -17.187003 -153.893677  -5.983515
-351.023294  -63.573322  -1958.430

 COMB DB-G2-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   11.976867  113.794964     1.217259
121.775898   21.706553    1285.887
 0.25000   11.976867  113.807915     1.217259
121.733050   23.540243    1179.720
 0.50000   11.976867  113.821616     1.217259
121.696886   27.316871    1097.902
 0.75000   11.976867  113.835785     1.217259
121.662992   31.603374    1043.175
 1.00000   11.976867  113.851699     1.217259
121.631875   35.966313    1008.721

 COMB DB-G2-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -2.594133  -34.109893  -3.755669
-135.188095   -7.070938  -552.423796
 0.25000   -2.594133  -34.093986  -3.755669
-135.210897   -7.013358  -589.910986
 0.50000   -2.594133  -34.079990  -3.755669
-135.239305   -6.988406  -627.398820
 0.75000   -2.594133  -34.066800  -3.755669
-135.273662   -6.998048  -664.886681
 1.00000   -2.594133  -34.054659  -3.755669
-135.313955   -7.025175  -702.374520

 COMB DB-G2-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   10.781880  172.564575     2.917566
129.521729   22.210940    2041.961
 0.25000   10.781880  172.577525     2.917566
129.478881   22.946318    1877.486
 0.50000   10.781880  172.591227     2.917566
129.442717   25.596370    1737.488
 0.75000   10.781880  172.605396     2.917566
129.408823   28.399143    1629.544
 1.00000   10.781880  172.621310     2.917566
129.377706   32.894800    1548.480

 COMB DB-G2-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -7.249533  -52.394941  -4.801873
-298.288300   -20.675848   -1023.313
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                 718

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
        T           M2           M3
 0.25000   -7.249533  -52.379034  -4.801873
-298.311102   -19.746140   -1084.562
 0.50000   -7.249533  -52.365038  -4.801873
-298.339510   -19.443141   -1145.811
 0.75000   -7.249533  -52.351848  -4.801873
-298.373867   -20.952260   -1207.059
 1.00000   -7.249533  -52.339706  -4.801873
-298.414160   -22.943675   -1268.310

 COMB DB-G2-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   15.617997  331.923442     8.089191
428.724795   68.923875    3441.652
 0.25000   15.617997  354.273538     8.089191
400.982964   64.843708    3286.322
 0.50000   15.617997  378.079698     8.089191
371.063586   62.856577    3119.146
 0.75000   15.617997  402.814509     8.089191
341.889410   62.692371    2943.261
 1.00000   15.617997  429.233392     8.089191
341.889410   64.078727    2753.975

 COMB DB-G2-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -13.017840 -231.852461  -5.753613
-300.879311   -32.933761   -1426.808
 0.25000  -13.017840 -205.571363  -5.753613
-300.879311   -34.013371   -1523.287
 0.50000  -13.017840 -181.263006  -5.753613
-300.879311   -35.658724   -1619.766
 0.75000  -13.017840 -158.390063  -5.753613
-300.879311   -38.896843   -1716.245
 1.00000  -13.017840 -137.387659  -5.753613
-323.168321   -42.612174   -1812.726

 COMB DB-G2-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   16.070793  302.504342     7.525399
382.373250   61.153496    3248.889
 0.25000   16.070793  321.120536     7.525399
359.266087   59.244682    3091.143
 0.50000   16.070793  340.949538     7.525399
334.345168   59.165537    2923.894
 0.75000   16.070793  361.568705     7.525399
310.044954   60.613510    2750.176
 1.00000   16.070793  383.557279     7.525399
310.044954   63.353909    2566.439

 COMB DB-G2-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -13.309795 -206.625584  -8.285778
-377.759409   -1509.822
 0.25000  -13.309795 -184.735118  -8.285778
-377.759409   -54.459086   -1599.724
 0.50000  -13.309795 -164.487818  -8.285778
-377.759409   -53.741375   -1689.649
 0.75000  -13.309795 -145.436127  -8.285778
-377.759409   -54.936034   -1779.574
 1.00000  -13.309795 -127.942473  -8.285778
-396.324722   -57.107670   -1869.504

 COMB DB-G3-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   6.123396   36.695714     0.559757
 42.060110    9.748446   551.619784
 0.25000   6.123396   36.708670     0.559757
 42.017183   12.252684   511.483323
 0.50000   6.123396   36.722378     0.559757
 41.980958   14.946505   472.137659
 0.75000   6.123396   36.736553     0.559757
 41.947004   17.735638   433.960449
 1.00000   6.123396   36.752477     0.559757
 41.915830   20.600738   396.867175
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                 719

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -5.140288  -20.478852     -5.845812
-193.204389   -45.571770  -482.620090
 0.25000   -5.140288  -20.462934     -5.845812
-193.227234   -40.565005  -495.066866
 0.50000   -5.140288  -20.448932     -5.845812
-193.255922   -36.403367  -507.513827
 0.75000   -5.140288  -20.435735     -5.845812
-193.290337   -33.007979  -520.038905
 1.00000   -5.140288  -20.423589     -5.845812
-193.330704   -30.311497  -532.653186

 COMB DB-G3-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    8.805374   83.030811     3.456996
 62.580909   13.153075    1154.646
 0.25000    8.805374   83.043761     3.456996
 62.538060   16.485045    1067.589
 0.50000    8.805374   83.057463     3.456996
 62.501896   20.179923   983.694020
 0.75000    8.805374   83.071632     3.456996
 62.468002   24.156045   903.851516
 1.00000    8.805374   83.087546     3.456996
 62.436886   28.416139   828.172396

 COMB DB-G3-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -14.104540  -37.596823     -8.822265
-344.274955   -72.483227  -890.267602
 0.25000  -14.104540  -37.580916     -8.822265
-344.297757   -66.450463  -921.066758
 0.50000  -14.104540  -37.566920     -8.822265
-344.326164   -63.232026  -951.865915
 0.75000  -14.104540  -37.553730     -8.822265
-344.360521   -62.620365  -982.693920
 1.00000  -14.104540  -37.541588     -8.822265
-344.400815   -63.187994   -1013.684

 COMB DB-G3-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   10.417880  153.088819     2.291708
 104.214095   18.685755    1992.486
 0.25000   10.417880  153.100474     2.291708
 104.175532   21.705779    1839.131
 0.50000   10.417880  153.112805     2.291708
 104.142984   25.198578    1698.188
 0.75000   10.417880  153.125558     2.291708
 104.112479   29.116823    1573.096
 1.00000   10.417880  153.139880     2.291708
 104.084474   33.454740    1463.501

 COMB DB-G3-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -10.049967  -52.713948     -8.508900
-432.856357   -62.555980   -1265.031
 0.25000  -10.049967  -52.699632     -8.508900
-432.876879   -56.735315   -1322.145
 0.50000  -10.049967  -52.687035     -8.508900
-432.902446   -52.222426   -1379.259
 0.75000  -10.049967  -52.675164     -8.508900
-432.933367   -50.051008   -1436.389
 1.00000  -10.049967  -52.664237     -8.508900
-432.969631   -49.199180   -1493.673

 COMB DB-G3-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   17.758019  259.893083     5.230464
342.241235   50.200743    2905.946
 0.25000   17.758019  273.040994     5.230464
304.592024   50.789521    2744.006
 0.50000   17.758019  286.997023     5.230464
279.264450   53.239606    2581.258
 0.75000   17.758019  301.468757     5.230464
256.134942   57.164063    2421.952
 1.00000   17.758019  317.319863     5.230464
231.347808   62.073006    2261.640
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                 720

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -12.759272 -162.157245  -10.012289
-407.628693   -61.354003   -1471.306
 0.25000  -12.759272 -146.343183  -10.012289
-407.628693   -57.421031   -1551.551
 0.50000  -12.759272 -132.089707  -10.012289
-423.805889   -54.583884   -1631.796
 0.75000  -12.759272 -118.667124  -10.012289
-443.663167   -53.752160   -1712.054
 1.00000  -12.759272 -106.326781  -10.012289
-471.843414   -53.967913   -1792.440

 COMB DL-G1-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   12.951019  243.793007    12.205021
473.922520   73.030408    1941.600
 0.25000   12.951019  264.069922    12.205021
482.552786   63.459332    1871.824
 0.50000   12.951019  285.740246    12.205021
491.137577   54.778865    1769.006
 0.75000   12.951019  308.300701    12.205021
499.744317   47.539297    1632.377
 1.00000   12.951019  331.286471    12.205021
508.351583   42.076368    1462.538

 COMB DL-G1-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -30.461290 -182.777015     -0.665397
-91.027764   -36.417555   -967.681739
 0.25000  -30.461290 -163.704706     -0.665397
-91.027764   -41.902488   -1015.579
 0.50000  -30.461290 -145.221770     -0.665397
-91.027764   -47.971432   -1043.523
 0.75000  -30.461290 -127.841219     -0.665397
-91.027764   -54.781601   -1071.514
 1.00000  -30.461290 -112.011890     -0.665397
-91.027764   -62.516572   -1099.287

 COMB DL-G1-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   32.332340  396.355174    14.445784
615.542397   114.284490    3188.155
 0.25000   32.332340  421.041953    14.445784
618.855196   106.091182    3024.728
 0.50000   32.332340  447.426059    14.445784
622.167995   100.394092    2828.557
 0.75000   32.332340  474.956695    14.445784
625.480794   96.289647    2608.817
 1.00000   32.332340  502.970288    14.445784
628.793593   94.058461    2359.973

 COMB DL-G1-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -34.148896 -257.502798     -4.682640
-191.654231   -49.686420   -1745.722
 0.25000  -34.148896 -233.958123     -4.682640
-191.654231   -55.122560   -1787.668
 0.50000  -34.148896 -211.215628     -4.682640
-191.654231   -61.216435   -1829.689
 0.75000  -34.148896 -189.884900     -4.682640
-191.654231   -68.179973   -1871.617
 1.00000  -34.148896 -170.485802     -4.682640
-191.654231   -76.220650   -1913.355

 COMB DL-G1-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   28.441671  452.731507    13.487087
564.631335   103.204345    3789.175
 0.25000   28.441671  475.397037    13.487087
567.027169   95.309594    3565.104
 0.50000   28.441671  499.625291    13.487087
569.423002   89.601293    3311.468
 0.75000   28.441671  524.910685    13.487087
571.818836   85.658298    3035.017
 1.00000   28.441671  550.641280    13.487087
574.214670   83.628742    2732.415
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                 721

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -31.744895 -258.344021     -5.120728
-321.287588   -53.813924   -2313.944
 0.25000  -31.744895 -236.693429     -5.120728
-321.287588   -57.507017   -2354.553
 0.50000  -31.744895 -215.787773     -5.120728
-321.287588   -62.140285   -2395.253
 0.75000  -31.744895 -196.184796     -5.120728
-321.287588   -68.061075   -2435.842
 1.00000  -31.744895 -178.361388     -5.120728
-321.287588   -75.294273   -2476.279

 COMB DL-G1-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   27.879008  426.210541    13.247909
498.775489   90.059829    3658.926
 0.25000   27.879008  445.103291    13.247909
500.772526   85.193777    3428.050
 0.50000   27.879008  465.298643    13.247909
502.769562   82.397769    3172.880
 0.75000   27.879008  486.375169    13.247909
504.766598   81.297871    2899.266
 1.00000   27.879008  507.822790    13.247909
506.763635   82.260428    2604.276

 COMB DL-G1-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -35.638289 -233.523197     -7.917266
-420.135331   -75.540325   -2445.127
 0.25000  -35.638289 -215.476444     -7.917266
-420.135331   -77.737871   -2472.262
 0.50000  -35.638289 -198.050629     -7.917266
-420.135331   -81.174713   -2499.457
 0.75000  -35.638289 -181.710655     -7.917266
-420.135331   -86.451283   -2526.573
 1.00000  -35.638289 -166.854034     -7.917266
-420.135331   -93.442697   -2553.573

 COMB DL-G2-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   20.546583  147.135577     1.320107
 99.521071   33.142277    1379.852
 0.25000   20.546583  147.143043     1.320107
 99.500698   36.298550    1166.990
 0.50000   20.546583  147.151055     1.320107
 99.481456   40.533364    1060.008
 0.75000   20.546583  147.159453     1.320107
 99.463743   44.864920    969.369834
 1.00000   20.546583  147.168059     1.320107
 99.447937   49.276475    890.939049

 COMB DL-G2-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -3.763655  -46.196355     -4.390664
-141.887770   -12.427951   -858.099489
 0.25000   -3.763655  -46.188747     -4.390664
-141.901944   -12.152855   -869.731673
 0.50000   -3.763655  -46.181481     -4.390664
-141.917578   -11.988694   -881.347689
 0.75000   -3.763655  -46.174750     -4.390664
-141.934185   -11.922321   -892.945015
 1.00000   -3.763655  -46.168698     -4.390664
-141.951317   -11.946977   -904.489726

 COMB DL-G2-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   18.021563  237.621212     3.103551
108.762265   29.983496    2150.892
 0.25000   18.021563  237.628678     3.103551
108.741883   31.952393    1961.597
 0.50000   18.021563  237.636691     3.103551
108.722635   35.271531    1779.932
 0.75000   18.021563  237.645090     3.103551
108.704915   39.243790    1614.500
 1.00000   18.021563  237.653696     3.103551
108.689103   43.773265    1461.239
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                 722

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -10.460006  -72.425158     -5.813834
-323.521650   -32.466676   -1621.336
 0.25000  -10.460006  -72.417508     -5.813834
-323.535832   -31.316783   -1632.157
 0.50000  -10.460006  -72.410241     -5.813834
-323.551474   -30.771002   -1642.939
 0.75000  -10.460006  -72.403510     -5.813834
-323.568089   -31.510930   -1653.718
 1.00000  -10.460006  -72.397458     -5.813834
-323.585230   -32.954610   -1664.415

 COMB DL-G2-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   26.107214  400.461502     9.640244
460.074970   81.137246    3418.808
 0.25000   26.107214  420.294505     9.640244
424.706044   77.938113    3208.274
 0.50000   26.107214  441.536042     9.640244
388.650011   76.266172    2970.179
 0.75000   26.107214  463.748089     9.640244
356.520600   75.991798    2710.169
 1.00000   26.107214  486.438773     9.640244
348.760529   77.114844    2426.755

 COMB DL-G2-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -23.292953 -222.802090     -6.666461
-344.308134   -51.724780   -2241.594
 0.25000  -23.292953 -203.164595     -6.666461
-344.311265   -52.990281   -2271.927
 0.50000  -23.292953 -184.370158     -6.666461
-344.480013   -55.068462   -2302.181
 0.75000  -23.292953 -166.846641     -6.666461
-364.171625   -58.774898   -2332.514
 1.00000  -23.292953 -151.007477     -6.666461
-390.611864   -63.652772   -2441.226

 COMB DL-G2-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   27.329198  376.576863     8.929220
421.728624   73.432396    3317.591
 0.25000   27.329198  393.093186     8.929220
392.263756   73.214282    3102.052
 0.50000   27.329198  410.794920     8.929220
362.226478   74.459106    2863.752
 0.75000   27.329198  429.299158     8.929220
335.460359   77.136159    2607.511
 1.00000   27.329198  448.202135     8.929220
328.995660   81.358749    2332.045

 COMB DL-G2-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -24.259512 -204.212868     -10.306625
-444.077869   -74.922839   -2390.379
 0.25000  -24.259512 -187.853416     -10.306625
-444.080477   -73.334274   -2405.501
 0.50000  -24.259512 -172.196294     -10.306625
-444.221057   -72.798816   -2420.564
 0.75000  -24.259512 -157.597939     -10.306625
-460.625591   -74.069228   -2435.681
 1.00000  -24.259512 -144.402772     -10.306625
-482.652219   -76.954372   -2516.118

 COMB DL-G3-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   12.164077   59.915980     0.848714
 68.081073   13.778759   683.151290
 0.25000   12.164077   59.923448     0.848714
 68.060667   18.370484   626.392919
 0.50000   12.164077   59.931463     0.848714
 68.041397   23.433948   569.725768
 0.75000   12.164077   59.939864     0.848714
 68.023657   29.073051   513.548672
 1.00000   12.164077   59.948473     0.848714
 68.007827   35.332065   457.509481
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                 723

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -6.702322  -28.435950     -8.645786
-240.742902   -50.688997  -795.642649
 0.25000   -6.702322  -28.428297     -8.645786
-240.757107   -45.261010   -777.710010
 0.50000   -6.702322  -28.421028     -8.645786
-240.772774   -40.576060  -759.810925
 0.75000   -6.702322  -28.414294     -8.645786
-240.789415   -36.754742  -741.899682
 1.00000   -6.702322  -28.408241     -8.645786
-240.806583   -33.858201  -724.008720

 COMB DL-G3-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   15.507742  131.562767     4.036554
 92.063823   18.552944    1379.638
 0.25000   15.507742  131.570230     4.036554
 92.043481   24.388910    1260.492
 0.50000   15.507742  131.578240     4.036554
 92.024269   31.079474    1142.715
 0.75000   15.507742  131.586635     4.036554
 92.006583   38.611245    1027.251
 1.00000   15.507742  131.595337     4.036554
 91.990801   47.078021   912.568825

 COMB DL-G3-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -19.697697  -51.673375     -12.007301
-418.998404   -84.622782   -1462.012
 0.25000  -19.697697  -51.665730     -12.007301
-419.012546   -79.253339   -1442.866
 0.50000  -19.697697  -51.658467     -12.007301
-419.028147   -75.762515   -1423.728
 0.75000  -19.697697  -51.651739     -12.007301
-419.044720   -74.198372   -1404.592
 1.00000  -19.697697  -51.645690     -12.007301
-419.061817   -74.132991   -1385.475

 COMB DL-G3-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   20.191930  226.576404     2.947859
119.406776   26.068324    2246.054
 0.25000   20.191930  226.657011     2.947859
119.186998   31.856058    2054.138
 0.50000   20.191930  226.743522     2.947859
118.979430   38.050974    1863.974
 0.75000   20.191930  226.834196     2.947859
118.788341   46.366291    1679.543
 1.00000   20.191930  226.927112     2.947859
118.617832   55.028243    1500.749

 COMB DL-G3-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -15.159430  -74.912147     -12.004643
-500.847165   -77.019859   -2034.176
 0.25000  -15.159430  -74.829570     -12.004643
-500.999985   -70.931569   -2021.394
 0.50000  -15.159430  -74.751126     -12.004643
-501.168565   -66.287299   -2008.617
 0.75000  -15.159430  -74.678453     -12.004643
-501.347643   -63.417909   -1995.821
 1.00000  -15.159430  -74.613117     -12.004643
-501.532384   -62.049530   -1983.004

 COMB DL-G3-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   31.489976  334.868361     6.337295
363.008834   63.845026    3032.442
 0.25000   31.489976  346.796543     6.337295
334.831249   67.404717    2820.611
 0.50000   31.489976  359.585544     6.337295
308.068290   72.654210    2593.419
 0.75000   31.489976  372.977034     6.337295
283.424973   78.986444    2356.907
 1.00000   31.489976  386.682361     6.337295
261.515473   86.800167    2109.091
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                 724

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -20.247821 -169.982758     -12.928067
-476.902437   -79.182247   -2358.272
 0.25000  -20.247821 -157.948831     -12.928067
-486.481736   -74.970214   -2369.798
 0.50000  -20.247821 -146.480855     -12.928067
-506.580171   -72.107028   -2381.333
 0.75000  -20.247821 -135.822463     -12.928067
-528.069385   -70.958085   -2392.879
 1.00000  -20.247821 -126.218370     -12.928067
-550.225120   -71.372929   -2435.123

 COMB      DB ------------------ MAX
```

```
  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   22.058037  386.391951  11.016888
590.134077   99.657449  3883.808
 0.25000   22.058037  412.892209  11.016888
590.134077   91.566720  3724.649
 0.50000   22.058037  441.294672  11.016888
590.134077   87.073742  3550.973
 0.75000   22.058037  470.976819  11.016888
590.134077   84.510162  3366.038
 1.00000   22.058037  501.106487  11.016888
590.134077   83.567459  3164.951

  COMB      DB ------------------- MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -17.187003 -289.493523  -10.012289
-432.856357  -72.483227  -1554.369
 0.25000  -17.187003 -257.017791  -10.012289
-432.876879  -66.450463  -1655.357
 0.50000  -17.187003 -225.434306  -10.012289
-432.902446  -63.232026  -1756.381
 0.75000  -17.187003 -195.761573  -10.012289
-443.663167  -62.620365  -1857.405
 1.00000  -17.187003 -168.578705  -10.012289
-471.843414  -63.573322  -1958.430

  COMB      DL ------------------- MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   32.332340  452.731507  14.445784
615.542397  114.284490  3789.175
 0.25000   32.332340  475.397037  14.445784
618.855196  106.091182  3565.104
 0.50000   32.332340  499.625291  14.445784
622.167995  100.394092  3311.468
 0.75000   32.332340  524.910685  14.445784
625.480794   96.289647  3035.017
 1.00000   32.332340  550.641280  14.445784
628.793593   94.058461  2732.415

  COMB      DL ------------------- MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -35.638289 -258.344021  -12.928067
-500.847165  -84.622782  -2445.127
 0.25000  -35.638289 -236.693429  -12.928067
-500.999985  -79.253339  -2472.262
 0.50000  -35.638289 -215.787773  -12.928067
-506.580171  -81.174713  -2499.457
 0.75000  -35.638289 -196.184796  -12.928067
-528.069385  -86.451283  -2526.573
 1.00000  -35.638289 -178.361388  -12.928067
-550.225120  -93.442697  -2553.573

  COMB      CAR ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   32.332340  452.731507  14.445784
615.542397  114.284490  3883.808
 0.25000   32.332340  475.397037  14.445784
618.855196  106.091182  3724.649
 0.50000   32.332340  499.625291  14.445784
622.167995  100.394092  3550.973
 0.75000   32.332340  524.910685  14.445784
625.480794   96.289647  3366.038
 1.00000   32.332340  550.641280  14.445784
628.793593   94.058461  3164.951
    Program     SAP2000     Nonlinear     Version     7.42
            File:하행S11-S1503.OUT

                      Page
<           MOVING          LOAD          >
                               725

  F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB      CAR ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -35.638289 -289.493523  -12.928067
-500.847165  -84.622782  -2445.127
 0.25000  -35.638289 -257.017791  -12.928067
-500.999985  -79.253339  -2472.262
 0.50000  -35.638289 -225.434306  -12.928067
-506.580171  -81.174713  -2499.457
 0.75000  -35.638289 -196.184796  -12.928067
-528.069385  -86.451283  -2526.573
 1.00000  -35.638289 -178.361388  -12.928067
-550.225120  -93.442697  -2553.573

  COMB    DESIGN ----------------- MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   32.332340  452.731507  14.445784
615.542397  114.284490  3883.808
 0.25000   32.332340  475.397037  14.445784
618.855196  106.091182  3724.649
 0.50000   32.332340  499.625291  14.445784
622.167995  100.394092  3550.973
 0.75000   32.332340  524.910685  14.445784
625.480794   96.289647  3366.038
 1.00000   32.332340  550.641280  14.445784
628.793593   94.058461  3164.951

  COMB    DESIGN ----------------- MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -35.638289 -289.493523  -12.928067
-500.847165  -84.622782  -2445.127
 0.25000  -35.638289 -257.017791  -12.928067
-500.999985  -79.253339  -2472.262
 0.50000  -35.638289 -225.434306  -12.928067
-506.580171  -81.174713  -2499.457
 0.75000  -35.638289 -196.184796  -12.928067
-528.069385  -86.451283  -2526.573
 1.00000  -35.638289 -178.361388  -12.928067
-550.225120  -93.442697  -2553.573

  ELEM        40 ================== LENGTH
=    4.988083

  COMB DB-G1-1 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000    9.592295   272.559075    8.187295
542.230242   41.674307   1794.143
 0.25000    9.592295   295.895736    8.187295
542.230242   33.702563   1705.180
 0.50000    9.592295   320.757947    8.187295
542.230242   26.855801   1585.740
 0.75000    9.592295   346.590731    8.187295
542.230242   20.977176   1433.017
 1.00000    9.592295   371.901400    8.187295
542.230242   16.150988   1247.607

  COMB DB-G1-1 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -12.023158 -171.861913   -0.279044
-87.033921  -36.825006  -855.476364
 0.25000  -12.023158 -147.081385   -0.279044
-87.033921  -40.511103  -928.923330
 0.50000  -12.023158 -122.500116   -0.279044
-87.033921  -44.204809  -1002.463
 0.75000  -12.023158  -99.526823   -0.279044
-87.033921  -47.902922  -1076.002
 1.00000  -12.023158  -78.567712   -0.279044
-87.033921  -51.601390  -1149.785

  COMB DB-G1-2 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   21.652785  423.687574  10.586415
659.725979   82.607530  2854.038
 0.25000   21.652785  452.955441  10.586415
659.725979   75.113406  2653.383
 0.50000   21.652785  484.068371  10.586415
659.725979   68.829138  2432.609
    Program     SAP2000     Nonlinear     Version     7.42
            File:하행S11-S1503.OUT

                      Page
<           MOVING          LOAD          >
                               726

  F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  REL DIST          P          V2          V3
     T          M2          M3
 0.75000   21.652785  516.369898  10.586415
659.725979   63.855981  2194.939
 1.00000   21.652785  548.836817  10.586415
659.725979   60.206868  1934.796

  COMB DB-G1-2 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -14.974270 -229.785829   -1.298386
-187.001552  -46.263303  -1485.489
 0.25000  -14.974270 -197.932305   -1.298386
-187.001552  -50.986484  -1600.426
 0.50000  -14.974270 -167.100417   -1.298386
-187.001552  -55.717392  -1715.471
 0.75000  -14.974270 -138.227605   -1.298386
-187.001552  -60.450295  -1830.522
 1.00000  -14.974270 -111.793097   -1.298386
-187.001552  -65.187083  -1945.759

  COMB DB-G1-3 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   18.168651  460.637690   9.475124
573.759414   71.177251  3163.979
 0.25000   18.168651  487.499054   9.475124
573.759414   64.184352  2904.313
 0.50000   18.168651  516.051023   9.475124
573.759414   58.449969  2627.762
 0.75000   18.168651  545.691149   9.475124
573.759414   54.127888  2340.783
 1.00000   18.168651  575.545886   9.475124
573.759414   51.287212  2041.682

  COMB DB-G1-3 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -13.618040 -227.127286   -2.206449
-330.199002  -43.086352  -1894.008
 0.25000  -13.618040 -197.831856   -2.206449
-330.199002  -47.153003  -2019.952
 0.50000  -13.618040 -169.533109   -2.206449
-330.199002  -51.227933  -2145.993
 0.75000  -13.618040 -143.027636   -2.206449
-330.199002  -55.311107  -2272.034
 1.00000  -13.618040 -118.755151   -2.206449
-330.199002  -59.401976  -2398.237

  COMB DB-G1-4 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   17.590858  422.003538   8.417723
504.037432   66.582024  2942.336
 0.25000   17.590858  444.398312   8.417723
504.037432   61.947363  2682.994
 0.50000   17.590858  468.202647   8.417723
504.037432   58.404568  2411.589
 0.75000   17.590858  492.914123   8.417723
504.037432   56.108939  2134.038
 1.00000   17.590858  517.806390   8.417723
504.037432   55.127218  1848.324

  COMB DB-G1-4 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -17.237909 -202.832311   -5.019862
-435.372606  -62.992138  -1958.278
 0.25000  -17.237909 -178.406243   -5.019862
-435.372606  -65.312921  -2067.774
 0.50000  -17.237909 -154.812885   -5.019862
-435.372606  -68.112112  -2176.437
 0.75000  -17.237909 -132.714479   -5.019862
-435.372606  -71.211587  -2285.608
 1.00000  -17.237909 -112.477635   -5.019862
-435.372606  -74.563227  -2395.026

  COMB DB-G2-1 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   12.029725  137.073342   1.315122
78.333942   35.691321  1006.997
    Program     SAP2000     Nonlinear     Version     7.42
            File:하행S11-S1503.OUT

                      Page
<           MOVING          LOAD          >
                               727

  F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  REL DIST          P          V2          V3
     T          M2          M3
 0.25000   12.029725  137.086193   1.315122
78.290613   36.895459  869.667113
 0.50000   12.029725  137.099786   1.315122
78.253570   38.114881  753.869564
 0.75000   12.029725  137.113842   1.315122
78.218283   39.335386  667.753762
 1.00000   12.029725  137.129500   1.315122
78.185122   40.560520  603.914191

  COMB DB-G2-1 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -2.635674  -25.654635   -1.147288
-149.820210   -6.832820  -702.318957
 0.25000   -2.635674  -25.639155   -1.147288
-149.837764   -7.393742  -742.434728
 0.50000   -2.635674  -25.625560   -1.147288
-149.863467   -7.962988  -782.551801
 0.75000   -2.635674  -25.612718   -1.147288
-149.898606   -8.536861  -822.668891
 1.00000   -2.635674  -25.600850   -1.147288
-149.939435   -9.116196  -862.786283

  COMB DB-G2-2 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   10.568706  209.060725   1.681128
68.020042   31.401888   1549.489
 0.25000   10.568706  209.073576   1.681128
67.976712   32.717345   1334.988
 0.50000   10.568706  209.087169   1.681128
67.939669   34.246981   1144.485
 0.75000   10.568706  209.101225   1.681128
67.904382   36.093240   988.552521
 1.00000   10.568706  209.116883   1.681128
67.871221   38.361429   864.844545

  COMB DB-G2-2 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -7.101145  -44.402687   -3.480717
-345.773968  -22.427847  -1268.298
 0.25000   -7.101145  -44.387207   -3.480717
-345.791522  -23.274306  -1325.677
 0.50000   -7.101145  -44.373612   -3.480717
-345.817225  -24.199305  -1383.093
 0.75000   -7.101145  -44.360770   -3.480717
-345.852364  -25.133733  -1440.509
 1.00000   -7.101145  -44.348902   -3.480717
-345.893193  -26.076333  -1497.937

  COMB DB-G2-3 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   15.147231  396.244129   6.821234
418.325113   62.208952   2754.062
 0.25000   15.147231  418.669717   6.821234
389.807074   58.993552   2510.947
 0.50000   15.147231  442.451921   6.821234
358.060680   56.892783   2255.135
 0.75000   15.147231  467.094250   6.821234
342.392611   56.286096   1992.561
 1.00000   15.147231  493.160664   6.821234
342.392611   56.721835   1721.365

  COMB DB-G2-3 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -12.651060 -193.630509   -3.346075
-362.476934  -41.860620  -1812.551
 0.25000  -12.651060 -167.956168   -3.346075
-362.476934  -44.908979  -1918.527
 0.50000  -12.651060 -144.284260   -3.346075
-362.476934  -48.085471  -2024.603
 0.75000  -12.651060 -122.021356   -3.346075
-362.476934  -51.270490  -2130.679
 1.00000  -12.651060 -101.538850   -3.346075
-362.476934  -54.465800  -2236.773
    Program     SAP2000     Nonlinear     Version     7.42
            File:하행S11-S1503.OUT

                      Page
<           MOVING          LOAD          >
                               728

  F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G2-4 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   15.619490  361.729086   5.782497
383.597302   62.013228   2567.222
 0.25000   15.619490  380.408160   5.782497
359.843608   60.892850   2328.925
 0.50000   15.619490  400.217208   5.782497
333.400902   60.688415   2081.275
 0.75000   15.619490  420.742685   5.782497
320.350407   61.705102   1829.851
 1.00000   15.619490  442.454333   5.782497
320.350407   63.586994   1572.979

  COMB DB-G2-4 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -12.745061 -174.540275   -6.405882
-461.407854  -56.793319  -1869.473
 0.25000  -12.745061 -153.155199   -6.405882
-461.407854  -56.429777  -1957.833
 0.50000  -12.745061 -133.438020   -6.405882
-461.407854  -56.634974  -2046.269
 0.75000  -12.745061 -114.894452   -6.405882
-461.407854  -57.385675  -2134.845
 1.00000  -12.745061  -97.829676   -6.405882
-461.407854  -58.569008  -2223.576

  COMB DB-G3-1 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000    6.028986   44.247399    0.274256
62.463813   20.829568   397.954585
 0.25000    6.028986   44.260255    0.274256
62.420407   23.347708   348.679152
 0.50000    6.028986   44.273854    0.274256
62.383304   25.907066   301.016859
 0.75000    6.028986   44.287915    0.274256
62.347958   28.483002   255.573632
 1.00000    6.028986   44.303583    0.274256
62.314739   31.078734   212.881310

  COMB DB-G3-1 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -4.769849  -20.086254   -5.947973
-242.167748  -30.929765  -532.853423
 0.25000   -4.769849  -20.070763   -5.947973
-242.185665  -25.668196  -529.919315
 0.50000   -4.769849  -20.057163   -5.947973
-242.211675  -21.008719  -527.239322
 0.75000   -4.769849  -20.044315   -5.947973
-242.246871  -16.952534  -524.745633
 1.00000   -4.769849  -20.032442   -5.947973
-242.287773  -13.495407  -522.432249

  COMB DB-G3-2 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000    8.514149  101.038319    1.243971
83.884257   28.212124  830.012491
 0.25000    8.514149  101.051170    1.243971
83.840928   31.808306  718.575672
 0.50000    8.514149  101.064763    1.243971
83.803884   35.510590  612.768965
 0.75000    8.514149  101.078819    1.243971
83.768597   39.345107  513.738307
 1.00000    8.514149  101.094477    1.243971
83.735436   43.374218  421.769831

  COMB DB-G3-2 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -13.729776  -36.729382   -9.163738
-427.392659  -63.886012  -1013.948
 0.25000  -13.729776  -36.713902   -9.163738
-427.410213  -59.188533  -1021.884
 0.50000  -13.729776  -36.700307   -9.163738
-427.435916  -55.296118  -1030.016
 0.75000  -13.729776  -36.687465   -9.163738
-427.471055  -52.144771  -1038.498
 1.00000  -13.729776  -36.675597   -9.163738
-427.511884  -49.739474  -1047.068
    Program     SAP2000     Nonlinear     Version     7.42
            File:하행S11-S1503.OUT

                      Page
<           MOVING          LOAD          >
                               729

  F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G3-3 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   10.107226  186.577212    0.952536
76.176005   32.464953   1465.513
 0.25000   10.107226  186.588678    0.952536
76.137009   35.704003   1267.135
 0.50000   10.107226  186.600912    0.952536
76.103670   39.154536   1082.571
 0.75000   10.107226  186.613563    0.952536
76.071912   42.912842   917.254892
 1.00000   10.107226  186.627655    0.952536
76.042067   47.046168   772.502629

  COMB DB-G3-3 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -9.537796  -51.722932   -8.647942
-524.254625  -49.435324  -1493.887
 0.25000   -9.537796  -51.708999   -8.647942
-524.270423  -44.602830  -1530.151
 0.50000   -9.537796  -51.696764   -8.647942
-524.293556  -40.497678  -1566.570
 0.75000   -9.537796  -51.685206   -8.647942
-524.325181  -37.084516  -1603.321
 1.00000   -9.537796  -51.674525   -8.647942
-524.361927  -34.358894  -1640.137

  COMB DB-G3-4 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   17.534602  311.203370    4.102183
323.790991   60.902869   2263.009
 0.25000   17.534602  324.321069    4.102183
290.422210   62.415411   2031.840
 0.50000   17.534602  338.214089    4.102183
267.295764   64.854027   1800.112
 0.75000   17.534602  352.594540    4.102183
242.714738   68.055789   1574.663
 1.00000   17.534602  368.217257    4.102183
226.175162   72.001038   1353.829

  COMB DB-G3-4 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -12.204342 -138.939160   -7.894003
-493.511397  -53.929023  -1792.512
 0.25000  -12.204342 -123.521070   -7.894003
-493.511397  -51.297446  -1863.475
 0.50000  -12.204342 -109.659030   -7.894003
-496.230957  -49.285656  -1934.601
 0.75000  -12.204342  -96.592398   -7.894003
-516.708824  -47.854521  -2006.003
 1.00000  -12.204342  -84.533331   -7.894003
-540.364473  -47.000604  -2077.460

  COMB DL-G1-1 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   12.457962  308.346791   11.555617
612.498757   42.297751   1460.288
 0.25000   12.457962  330.169534   11.555617
621.107035   34.552617   1334.640
 0.50000   12.457962  353.289447   11.555617
629.715313   27.691330   1224.813
 0.75000   12.457962  377.213665   11.555617
638.323591   22.319268   1105.808
 1.00000   12.457962  401.491619   11.555617
646.931869   18.620696   979.133745

  COMB DL-G1-1 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -30.181602 -148.633954   -0.414742
-161.085202  -62.695594  -1098.639
 0.25000  -30.181602 -131.207571   -0.414742
-161.085202  -69.440355  -1187.331
 0.50000  -30.181602 -114.453947   -0.414742
-161.085202  -76.846775  -1338.498
 0.75000  -30.181602  -98.862526   -0.414742
-161.085202  -85.070697  -1521.176
 1.00000  -30.181602  -84.772867   -0.414742
-161.085202  -94.207982  -1733.290
    Program     SAP2000     Nonlinear     Version     7.42
            File:하행S11-S1503.OUT

                      Page
<           MOVING          LOAD          >
                               730

  F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G1-2 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   31.941594  495.704841   14.572237
753.038358   93.733286   2357.335
 0.25000   31.941594  522.095570   14.572237
756.351546   85.103329   2096.889
 0.50000   31.941594  550.094280   14.572237
759.664735   77.661883   1888.578
 0.75000   31.941594  579.114545   14.572237
762.977923   71.930413   1701.917
 1.00000   31.941594  608.630225   14.572237
766.291111   67.918509   1528.948

  COMB DL-G1-2 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -33.763414 -209.237040   -1.493382
-288.853450  -76.382859  -1912.514
 0.25000  -33.763414 -187.651350   -1.493382
-288.853450  -84.197608  -2026.633
 0.50000  -33.763414 -166.942264   -1.493382
-288.853450  -92.777006  -2253.450
 0.75000  -33.763414 -147.656878   -1.493382
-288.853450 -102.309444  -2536.920
 1.00000  -33.763414 -130.285155   -1.493382
-288.853450 -112.933564  -2870.596

  COMB DL-G1-3 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   28.066446  562.019730   13.044280
665.419171   82.448455   2730.950
 0.25000   28.066446  586.235902   13.044280
667.815287   75.345393   2389.898
 0.50000   28.066446  611.932848   13.044280
670.211402   69.536195   2111.989
 0.75000   28.066446  638.572212   13.044280
672.607518   65.483066   1877.084
 1.00000   28.066446  665.672294   13.044280
675.003633   63.128031   1669.310

  COMB DL-G1-3 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -31.286602 -214.521027   -2.688712
-441.800755  -74.991190  -2475.555
 0.25000  -31.286602 -194.665963   -2.688712
-441.800755  -81.347290  -2575.282
 0.50000  -31.286602 -175.621056   -2.688712
-441.800755  -88.764056  -2795.163
 0.75000  -31.286602 -157.887223   -2.688712
-441.800755  -97.154857  -3100.125
 1.00000  -31.286602 -141.914232   -2.688712
-441.800755 -106.608443  -3469.273

  COMB DL-G1-4 ------------------ MAX

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000   27.192801  521.024133   11.390543
603.770067   80.584965   2603.918
 0.25000   27.192801  541.203414   11.390543
605.767338   76.840006   2264.356
 0.50000   27.192801  562.628987   11.390543
607.764609   74.394992   1981.391
 0.75000   27.192801  584.834109   11.390543
609.761881   73.649794   1750.794
 1.00000   27.192801  607.423260   11.390543
611.759152   74.601400   1548.683

  COMB DL-G1-4 ------------------ MIN

  REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -34.962951 -197.389757   -6.213240
-564.035218  -92.688638  -2533.230
 0.25000  -34.962951 -180.839658   -6.213240
-564.035218  -96.363791  -2619.852
 0.50000  -34.962951 -164.964863   -6.213240
-564.035218 -101.107883  -2791.172
 0.75000  -34.962951 -150.182906   -6.213240
-564.035218 -107.044522  -3053.290
 1.00000  -34.962951 -136.868691   -6.213240
-564.035218 -114.164527  -3374.872
    Program     SAP2000     Nonlinear     Version     7.42
            File:하행S11-S1503.OUT

                      Page
<           MOVING          LOAD          >
                               731

  F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G2-1 ------------------ MAX
```

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   20.801701  180.938982    1.626995
69.244167   48.416153  891.175399
 0.25000   20.801701  180.946891    1.626995
69.223646   48.764249  735.479013
 0.50000   20.801701  180.954951    1.626995
69.204659   49.152503  619.634757
 0.75000   20.801701  180.963612    1.626995
69.186665   49.599743  544.603382
 1.00000   20.801701  180.972511    1.626995
69.170363   50.126894  500.076005

 COMB DL-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.782854  -37.835718   -1.188802
-166.267506  -11.852887  -904.342715
 0.25000   -3.782854  -37.828610   -1.188802
-166.281307  -12.133450  -919.268730
 0.50000   -3.782854  -37.821852   -1.188802
-166.296711  -12.658142  -981.399367
 0.75000   -3.782854  -37.815590   -1.188802
-166.313327  -13.243336  -1075.371
 1.00000   -3.782854  -37.809967   -1.188802
-166.330749  -13.913577  -1191.976

 COMB DL-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   18.033481  286.619900    1.844674
71.235163   41.704548   1462.487
 0.25000   18.033481  286.627609    1.844674
71.214935   43.221099   1203.619
 0.50000   18.033481  286.635870    1.844674
71.195641   45.127367   998.745133
 0.75000   18.033481  286.644531    1.844674
71.177640   47.429648   860.434884
 1.00000   18.033481  286.653432    1.844674
71.161333   50.081193   766.634642

 COMB DL-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.225431  -63.940546   -3.822487
-393.531982  -31.875015   -1664.419
 0.25000  -10.225431  -63.933436   -3.822487
-393.545790  -31.639000   -1669.415
 0.50000  -10.225431  -63.926678   -3.822487
-393.561203  -31.376869   -1733.951
 0.75000  -10.225431  -63.920415   -3.822487
-393.577828  -32.060576   -1864.622
 1.00000  -10.225431  -63.914791   -3.822487
-393.595259  -32.605518   -2034.843

 COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   25.790118  491.248402    8.900982
498.795332   75.224579   2426.529
 0.25000   25.790118  512.071741    8.900982
463.367616   71.873287   2108.299
 0.50000   25.790118  534.293386    8.900982
426.974863   69.527343   1845.663
 0.75000   25.790118  557.435251    8.900982
403.320658   68.172158   1626.044
 1.00000   25.790118  581.109602    8.900982
394.599867   68.220581   1431.987

 COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -22.687069  -190.219007   -3.861018
-454.359392   -62.836958   -2440.804
 0.25000  -22.687069  -172.093087   -3.861018
-454.371469   -66.504695   -2511.639
 0.50000  -22.687069  -154.773830   -3.861018
-454.377425   -70.810258   -2675.590
 0.75000  -22.687069  -138.692328   -3.861018
-456.138403   -75.721469   -2918.891
 1.00000  -22.687069  -124.232342   -3.861018
-482.520917   -81.335930   -3287.852
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                    732

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   26.745947  453.927880    7.660369
483.302986   79.294796   2332.761
 0.25000   26.745947  471.275224    7.660369
453.789142   79.412584   2018.788
 0.50000   26.745947  489.787458    7.660369
423.471351   80.281438   1753.977
 0.75000   26.745947  509.066303    7.660369
403.765692   83.066206   1540.819
 1.00000   26.745947  528.788745    7.660369
396.500643   86.960412   1353.821

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -23.302077  -178.417918   -8.145871
-579.510299   -76.010675   -2516.114
 0.25000  -23.302077  -163.317718   -8.145871
-579.520360   -76.068405   -2553.419
 0.50000  -23.302077  -148.888527   -8.145871
-579.525322   -77.157815   -2671.507
 0.75000  -23.302077  -135.492475   -8.145871
-580.992343   -79.351265   -2875.032
 1.00000  -23.302077  -123.446263   -8.145871
-602.970882   -82.601268   -3188.712

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.760961   62.001409    0.388425
119.491701   34.401834   458.891265
 0.25000   11.760961   62.009120    0.388425
119.471453   39.081380   390.471407
 0.50000   11.760961   62.017383    0.388425
119.452139   45.063427   326.230875
 0.75000   11.760961   62.026045    0.388425
119.434119   51.244360   284.392532
 1.00000   11.760961   62.034948    0.388425
119.417794   58.034020   251.525007

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.079184  -32.329069   -8.421837
-305.499191   -33.421409   -724.595594
 0.25000   -6.079184  -32.321957   -8.421837
-305.513025   -28.265767   -687.665569
 0.50000   -6.079184  -32.315196   -8.421837
-305.528462   -23.848833   -655.652330
 0.75000   -6.079184  -32.308931   -8.421837
-305.545113   -20.295900   -650.314992
 1.00000   -6.079184  -32.303305   -8.421837
-305.562571   -17.628758   -655.502550

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.704170  142.607060    1.261808
158.148411   45.396136   914.919784
 0.25000   14.704170  142.614767    1.261808
158.128220   52.239305   765.762106
 0.50000   14.704170  142.623025    1.261808
158.108960   59.820666   629.368726
 0.75000   14.704170  142.631682    1.261808
158.090991   68.268959   537.721329
 1.00000   14.704170  142.640579    1.261808
158.074713   77.589066   465.372293

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -18.734141  -55.150515  -12.177168
-533.873686  -73.143538   -1386.268
 0.25000  -18.734141  -55.143410  -12.177168
-533.887455  -67.130217   -1338.224
 0.50000  -18.734141  -55.136656  -12.177168
-533.902826  -62.108040   -1303.966
 0.75000  -18.734141  -55.130396  -12.177168
-533.919407  -58.208110   -1320.633
 1.00000  -18.734141  -55.124776  -12.177168
-533.936792  -55.416520   -1357.599
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                    733

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   19.724472  261.832351    1.044588
140.804238   52.300369   1503.339
 0.25000   19.724472  261.915590    1.044588
140.586090   58.982911   1249.249
 0.50000   19.724472  262.004784    1.044588
140.378009   66.332519   1031.785
 0.75000   19.724472  262.098933    1.044588
140.183878   74.448916   881.399644
 1.00000   19.724472  262.194385    1.044588
140.008013   83.406094   768.689435

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.322934  -75.565188  -11.365503
-624.320082  -60.523269   -1983.668
 0.25000  -14.322934  -75.488446  -11.365503
-624.468875  -55.074520   -1943.385
 0.50000  -14.322934  -75.415495  -11.365503
-624.634970  -50.481918   -1945.156
 0.75000  -14.322934  -75.347882  -11.365503
-624.814145  -46.855535   -2027.108
 1.00000  -14.322934  -75.287176  -11.365503
-625.001999  -44.169972   -2147.781

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   31.068997  398.681585    5.256097
407.470025   84.322694   2110.586
 0.25000   31.068997  411.093524    5.256097
379.175906   87.624282   1810.191
 0.50000   31.068997  424.376329    5.256097
352.042073   91.849983   1557.289
 0.75000   31.068997  438.242730    5.256097
326.739364   97.340345   1363.052
 1.00000   31.068997  452.471715    5.256097
303.888211  103.995343   1199.909

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -19.325080  -153.015954  -10.229633
-608.212579   -70.209780   -2435.388
 0.25000  -19.325080  -141.864468  -10.229633
-610.312922   -67.690835   -2445.158
 0.50000  -19.325080  -131.242916  -10.229633
-629.966160   -66.088778   -2526.999
 0.75000  -19.325080  -121.388939  -10.229633
-651.325854   -65.539811   -2693.191
 1.00000  -19.325080  -112.536179  -10.229633
-673.714538   -66.066724   -2920.184

 COMB     DB -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   21.652785  460.637860   10.586415
659.725979   82.607530   3163.979
 0.25000   21.652785  487.499054   10.586415
659.725979   75.113406   2904.313
 0.50000   21.652785  516.051023   10.586415
659.725979   68.829138   2627.762
 0.75000   21.652785  545.691149   10.586415
659.725979   68.055778   2340.783
 1.00000   21.652785  575.545886   10.586415
659.725979   72.001038   2041.682

 COMB     DB -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -17.237909  -229.785829   -9.163738
-524.254625   -63.886012   -1958.278
 0.25000  -17.237909  -197.932305   -9.163738
-524.270423   -65.312921   -2067.274
 0.50000  -17.237909  -169.533109   -9.163738
-524.293556   -68.112112   -2176.437
 0.75000  -17.237909  -143.027636   -9.163738
-524.325181   -71.211587   -2285.608
 1.00000  -17.237909  -118.755151   -9.163738
-540.364473   -74.563227   -2398.237
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                    734

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB     DL -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   31.941594  562.019730   14.572237
753.038358   93.733286   2730.950
 0.25000   31.941594  586.235902   14.572237
756.351546   87.624282   2389.898
 0.50000   31.941594  611.932848   14.572237
759.664735   91.849983   2111.969
 0.75000   31.941594  638.572212   14.572237
762.977923   97.340345   1877.084
 1.00000   31.941594  665.672294   14.572237
766.291111  103.995343   1669.310

 COMB     DL -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -34.962951  -214.521027  -12.177168
-624.320082   -92.688638   -2553.230
 0.25000  -34.962951  -194.665963  -12.177168
-624.468875   -96.363791   -2619.852
 0.50000  -34.962951  -175.621056  -12.177168
-629.966160  -101.107883   -2795.163
 0.75000  -34.962951  -157.887223  -12.177168
-651.325854  -107.044522   -3100.125
 1.00000  -34.962951  -141.914232  -12.177168
-673.714538  -114.164527   -3469.273

 COMB     CAR -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   31.941594  562.019730   14.572237
753.038358   93.733286   3163.979
 0.25000   31.941594  586.235902   14.572237
756.351546   87.624282   2904.313
 0.50000   31.941594  611.932848   14.572237
759.664735   91.849983   2627.762
 0.75000   31.941594  638.572212   14.572237
762.977923   97.340345   2340.783
 1.00000   31.941594  665.672294   14.572237
766.291111  103.995343   2041.682

 COMB     CAR -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -34.962951  -229.785829  -12.177168
-624.320082   -92.688638   -2553.230
 0.25000  -34.962951  -197.932305  -12.177168
-624.468875   -96.363791   -2619.852
 0.50000  -34.962951  -175.621056  -12.177168
-629.966160  -101.107883   -2795.163
 0.75000  -34.962951  -157.887223  -12.177168
-651.325854  -107.044522   -3100.125
 1.00000  -34.962951  -141.914232  -12.177168
-673.714538  -114.164527   -3469.273

 COMB    DESIGN -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   31.941594  562.019730   14.572237
753.038358   93.733286   3163.979
 0.25000   31.941594  586.235902   14.572237
756.351546   87.624282   2904.313
 0.50000   31.941594  611.932848   14.572237
759.664735   91.849983   2627.762
 0.75000   31.941594  638.572212   14.572237
762.977923   97.340345   2340.783
 1.00000   31.941594  665.672294   14.572237
766.291111  103.995343   2041.682

 COMB    DESIGN -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -34.962951  -229.785829  -12.177168
-624.320082   -92.688638   -2553.230
 0.25000  -34.962951  -197.932305  -12.177168
-624.468875   -96.363791   -2619.852
 0.50000  -34.962951  -175.621056  -12.177168
-629.966160  -101.107883   -2795.163
 0.75000  -34.962951  -157.887223  -12.177168
-651.325854  -107.044522   -3100.125
 1.00000  -34.962951  -141.914232  -12.177168
-673.714538  -114.164527   -3469.273
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                    735

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM        41 ================== LENGTH =     4.987670

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.195605  336.940213    2.580441
559.793682   15.445475   1245.943
 0.25000    9.195605  360.808740    2.580441
559.793682   15.493778   1068.961
 0.50000    9.195605  386.051610    2.580441
559.793682   16.231624  861.788205
 0.75000    9.195605  412.133582    2.580441
559.793682   17.77889   622.747586
 1.00000    9.195605  437.557879    2.580441
559.793682   20.492099  391.618311

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.277639  -106.788934   -4.554995
-197.617545   -50.990385   -1149.171
 0.25000  -12.277639   -84.046648   -4.554995
-197.617545   -50.993362   -1259.409
 0.50000  -12.277639   -61.450669   -4.554995
-197.617545   -51.096984   -1369.732
 0.75000  -12.277639   -40.432837   -4.554995
-197.617545   -51.264603   -1480.531
 1.00000  -12.277639   -26.921449   -4.554995
-197.617545   -51.551931   -1591.413

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   21.226982  511.894911   14.696252
646.082423   59.379506   1933.266
 0.25000   21.226982  541.725067   14.696252
646.082423   43.014402   1615.118
 0.50000   21.226982  573.201884   14.696252
646.082423   27.721991   1279.518
 0.75000   21.226982  605.689964   14.696252
646.082423   19.263107  930.648995
 1.00000   21.226982  638.195677   14.696252
646.082423   19.557266  629.559528

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -15.260281  -151.486533   -3.492508
-332.499913   -64.191969   -1944.974
 0.25000  -15.260281  -122.017006   -3.492508
-332.499913   -68.051136   -2103.653
 0.50000  -15.260281   -93.503434   -3.492508
-332.499913   -72.669067   -2262.364
 0.75000  -15.260281   -66.923968   -3.492508
-332.499913   -78.301290   -2421.585
 1.00000  -15.260281   -48.313992   -3.492508
-332.499913   -87.137752   -2580.959

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   17.570329  545.557096   11.921846
607.505749   49.446797   2040.932
 0.25000   17.570329  572.926994   11.921846
607.505749   39.492421   1675.205
 0.50000   17.570329  601.804503   11.921846
607.505749   30.279782   1298.692
 0.75000   17.570329  631.606522   11.921846
607.505749   24.916921  953.294281
 1.00000   17.570329  661.488707   11.921846
607.505749   23.861756  709.323656

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.908469  -156.628378   -3.714744
-470.636514   -58.191420   -2397.607
 0.25000  -13.908469  -129.493012   -3.714744
-470.636514   -62.473467   -2553.902
 0.50000  -13.908469  -103.308779   -3.714744
-470.636514   -68.712512   -2710.242
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                    736

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000  -13.908469   -78.896183   -3.714744
-470.636514   -75.689471   -2867.001
 1.00000  -13.908469   -61.691235   -3.714744
-470.636514   -84.643004   -3024.227

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   16.876399  492.154258   10.801632
570.368121   53.610226   1848.403
 0.25000   16.876399  514.972932   10.801632
570.368121   45.550511   1505.760
 0.50000   16.876399  539.048427   10.801632
570.368121   38.519749   1158.361
 0.75000   16.876399  563.894599   10.801632
570.368121   35.623447  875.701076
 1.00000   16.876399  588.809508   10.801632
570.368121   38.348628  688.387467

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -17.517392  -144.235539  -10.279316
-558.778965   -73.744059   -2394.718
 0.25000  -17.517392  -121.609536  -10.279316
-558.778965   -68.613001   -2515.466
 0.50000  -17.517392   -99.778704  -10.279316
-558.778965   -65.152928   -2636.631
 0.75000  -17.517392   -79.424823  -10.279316
-558.778965   -64.482618   -2758.489
 1.00000  -17.517392   -65.076956  -10.279316
-558.778965   -71.848856   -2881.013

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.052861  155.277505   13.157617
52.760840   40.433540   604.316158
 0.25000   12.052861  155.290422   13.157617
52.715492   24.493038   446.184088
 0.50000   12.052861  155.303966   13.157617
52.675699    9.403865  315.903325
 0.75000   12.052861  155.317872   13.157617
52.644148    2.203433  222.842794
 1.00000   12.052861  155.333347   13.157617
52.628191    2.925321  219.359047

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -2.673123  -22.528628   -1.225909
-178.854302   -8.738905   -882.700744
 0.25000   -2.673123  -22.513500   -1.225909
-178.857456  -12.386104   -903.026901
 0.50000   -2.673123  -22.500599   -1.225909
-178.888995  -16.983110   -943.487006
 0.75000   -2.673123  -22.488469   -1.225909
-178.926068  -22.662826   -984.003262
 1.00000   -2.673123  -22.477339   -1.225909
-178.968965  -31.117943   -1024.523

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.294990  229.398253   11.151433
99.344375   36.779735   866.058035
 0.25000   10.294990  229.411169   11.151433
99.299026   27.865699   637.032371
 0.50000   10.294990  229.424714   11.151433
99.259233   19.754082   439.871337
 0.75000   10.294990  229.438720   11.151433
99.227683   15.992658   343.417158
 1.00000   10.294990  229.454095   11.151433
99.211725   18.864934   365.254248

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.195075  -41.094465   -6.635494
-381.323339   -25.522977   -1498.011
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                    737

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000   -7.195075  -41.079337   -6.635494
-381.326492   -22.926859   -1541.874
 0.50000   -7.195075  -41.066436   -6.635494
-381.358032   -22.504694   -1585.884
 0.75000   -7.195075  -41.054306   -6.635494
-381.395105   -24.198329   -1630.029
 1.00000   -7.195075  -41.043377   -6.635494
-381.438002   -33.078632   -1674.645

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.639559  458.558265   15.049369
445.835823   54.881656   1721.686
 0.25000   14.639559  481.260869   15.049369
412.455341   42.251420   1405.620
 0.50000   14.639559  505.145230   15.049369
389.002882   30.281051   1083.869
 0.75000   14.639559  529.731154   15.049369
389.002882   21.722698  816.399233
 1.00000   14.639559  555.660487   15.049369
389.002882   20.990596  639.090437

 COMB DB-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.536742  -145.514381   -7.499487
-462.481511   -53.468127   -2236.439
 0.25000  -12.536742  -121.078899   -7.499487
-462.481511   -53.578063   -2353.206
 0.50000  -12.536742   -98.008872   -7.499487
-462.481511   -55.657031   -2470.222
 0.75000  -12.536742   -78.156458   -7.499487
-462.481511   -59.694885   -2587.359
 1.00000  -12.536742   -61.269925   -7.499487
-462.481511   -69.920036   -2705.054

 COMB DB-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   15.062920  412.639523   13.574549
447.139798   62.449002   1573.966
 0.25000   15.062920  431.549339   13.574549
419.336000   51.506762   1279.712
 0.50000   15.062920  451.443471   13.574549
399.801609   41.352781  983.728484
 0.75000   15.062920  471.924465   13.574549
399.801609   34.293154  756.424748
 1.00000   15.062920  493.519434   13.574549
399.801609   35.346027  624.101170

 COMB DB-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.370426  -135.895388  -10.114910
-551.629462   -58.016539   -2223.565
 0.25000  -12.370426  -115.542201  -10.114910
-551.629462   -53.675774   -2306.907
 0.50000  -12.370426   -97.075826  -10.114910
-551.629462   -51.193291   -2390.831
 0.75000  -12.370426   -79.790565  -10.114910
-551.629462   -51.902862   -2475.233
 1.00000  -12.370426   -65.725168  -10.114910
-551.629462   -59.989860   -2560.300

 COMB DB-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.848296   42.614164    1.895822
124.575265   31.543191   213.949143
 0.25000    5.848296   42.627085    1.895822
124.529843   29.984810   171.440223
 0.50000    5.848296   42.640635    1.895822
124.489992   28.502911   132.786158
 0.75000    5.848296   42.654546    1.895822
```

124.458025 27.076282 112.755644
1.00000 5.848296 42.670030 1.895822
124.441860 27.988696 135.794131
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.402550	-24.415077	-4.904218
-253.133785	-14.035405	-522.870682	
0.25000	-4.402550	-24.399937	-4.904218
-253.137360	-9.400682	-498.745234	
0.50000	-4.402550	-24.387031	-4.904218
-253.169233	-5.526681	-475.259915	
0.75000	-4.402550	-24.374894	-4.904218
-253.206363	-4.051214	-452.220259	
1.00000	-4.402550	-24.363960	-4.904218
-253.249331	-3.581831	-429.657582	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.128034	100.152551	3.119454
185.593358	43.349799	423.631070	
0.25000	8.128034	100.165467	3.119454
185.548010	42.299748	323.672682	
0.50000	8.128034	100.179012	3.119454
185.508217	41.708053	235.319481	
0.75000	8.128034	100.192918	3.119454
185.476666	41.915031	219.664533	
1.00000	8.128034	100.208393	3.119454
185.460709	49.483312	261.419122	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.347447	-40.459892	-15.269459
-445.704024	-50.365272	-1047.697	
0.25000	-13.347447	-40.444764	-15.269459
-445.707177	-33.067550	-1020.331	
0.50000	-13.347447	-40.431864	-15.269459
-445.738717	-16.656012	-993.799270	
0.75000	-13.347447	-40.419733	-15.269459
-445.775790	-5.568753	-968.065088	
1.00000	-13.347447	-40.408804	-15.269459
-445.818687	-5.840277	-943.070003	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.682973	196.135944	6.099172
188.189639	46.165185	774.661723	
0.25000	9.682973	196.147569	6.099172
188.148826	44.002286	578.900469	
0.50000	9.682973	196.159759	6.099172
188.113012	42.147849	405.704844	
0.75000	9.682973	196.172275	6.099172
188.084616	40.932198	332.164133	
1.00000	9.682973	196.186202	6.099172
188.070255	44.157413	392.231082	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.311814	-55.120356	-10.691471
-556.985390	-34.499196	-1640.698	
0.25000	-9.311814	-55.106741	-10.691471
-556.988228	-26.004664	-1641.030	
0.50000	-9.311814	-55.095130	-10.691471
-557.016613	-19.666555	-1642.060	
0.75000	-9.311814	-55.084213	-10.691471
-557.049979	-17.155931	-1643.736	
1.00000	-9.311814	-55.074377	-10.691471
-557.088586	-20.915924	-1646.237	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.179182	347.876339	15.503423
383.406487	71.163907	1355.387	
0.25000	17.179182	361.107447	15.503423
359.129803	57.478918	1088.235	
0.50000	17.179182	375.004357	15.503423
333.251788	45.495383	828.532877	
0.75000	17.179182	389.291432	15.503423
311.620476	37.142303	643.232381	
1.00000	17.179182	404.778573	15.503423
311.620476	39.944658	567.241158	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.842277	-116.662727	-10.031017
-562.561008	-46.737090	-2077.683	
0.25000	-11.842277	-101.783274	-10.031017
-562.561008	-42.489428	-2131.415	
0.50000	-11.842277	-88.712852	-10.031017
-562.561008	-40.549236	-2185.846	
0.75000	-11.842277	-76.449144	-10.031017
-576.825445	-42.327142	-2240.815	
1.00000	-11.842277	-65.743557	-10.031017
-602.455655	-50.815359	-2296.513	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.965894	414.324751	3.926879
667.886617	19.004310	978.170851	
0.25000	11.965894	418.572945	3.926879
676.494183	16.303164	874.323134	
0.50000	11.965894	464.074124	3.926879
685.101749	14.445039	765.765275	
0.75000	11.965894	490.365038	3.926879
693.709315	17.528353	656.170567	
1.00000	11.965894	517.012448	3.926879
702.316881	22.078102	552.503132	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.936961	-105.981683	-7.319408
-304.383656	-94.526164	-1734.297	
0.25000	-29.936961	-90.927759	-7.319408
-304.383656	-89.028602	-2035.372	
0.50000	-29.936961	-76.579753	-7.319408
-304.383656	-84.425704	-2370.160	
0.75000	-29.936961	-63.385564	-7.319408
-304.383656	-84.247914	-2742.687	
1.00000	-29.936961	-51.727043	-7.319408
-304.383656	-84.926139	-3158.334	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.536189	640.575846	22.542892
785.883525	68.055985	1528.090	
0.25000	31.536189	669.688406	22.542892
789.196440	45.190746	1335.699	
0.50000	31.536189	700.329861	22.542892
792.509354	25.305751	1156.456	
0.75000	31.536189	731.971136	22.542892
795.822268	20.297534	1006.525	
1.00000	31.536189	764.092032	22.542892
799.135255	24.426805	888.570177	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-33.451944	-154.104232	-6.507044
-474.051721	-113.225480	-2871.604	
0.25000	-33.451944	-135.194282	-6.507044
-474.051721	-112.914699	-3322.354	
0.50000	-33.451944	-117.206489	-6.507044
-474.051721	-115.373656	-3828.532	
0.75000	-33.451944	-100.684482	-6.507044
-474.051721	-129.556287	-4393.362	
1.00000	-33.451944	-86.057661	-6.507044
-474.051721	-151.135458	-5025.978	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.752797	694.679054	19.678119
735.828881	62.074625	1669.152	
0.25000	27.752797	721.373463	19.678119
738.224798	44.552285	1444.785	
0.50000	27.752797	749.474737	19.678119
740.620715	29.696500	1247.274	
0.75000	27.752797	778.496709	19.678119
743.016632	28.301832	1091.055	
1.00000	27.752797	807.964133	19.678119
745.412602	32.827168	997.933711	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-31.045791	-167.766814	-7.432329
-624.622639	-106.371993	-3469.944	
0.25000	-31.045791	-150.349447	-7.432329
-624.622639	-105.353011	-3942.655	
0.50000	-31.045791	-133.785542	-7.432329
-624.622639	-108.107949	-4480.900	
0.75000	-31.045791	-118.571468	-7.432329
-624.622639	-122.029138	-5088.526	
1.00000	-31.045791	-105.101772	-7.432329
-624.622639	-141.330334	-5771.043	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.588385	627.270772	17.600156
709.081016	73.187233	1549.230	
0.25000	26.588385	649.521776	17.600156
717.078722	59.232762	1338.359	
0.50000	26.588385	672.945467	17.600156
713.075228	48.781328	1157.395	
0.75000	26.588385	697.136600	17.600156
715.072334	51.879788	1026.281	
1.00000	26.588385	721.699039	17.600156
717.069484	63.595649	957.844440	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.523666	-166.361830	-15.029580
-723.655768	-113.554335	-3375.549	
0.25000	-34.523666	-151.843663	-15.029580
-723.655768	-103.554242	-3772.498	
0.50000	-34.523666	-138.036894	-15.029580
-723.655768	-97.536881	-4233.483	
0.75000	-34.523666	-125.355271	-15.029580
-723.655768	-103.789076	-4760.689	
1.00000	-34.523666	-114.127667	-15.029580
-723.655768	-119.814740	-5357.778	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.034695	209.353984	19.671979
53.490315	49.515350	500.448964	
0.25000	21.034695	209.362169	19.671979
53.469951	28.836838	403.972225	
0.50000	21.034695	209.370877	19.671979
53.450641	10.496211	331.460264	
0.75000	21.034695	209.379933	19.671979
53.432743	3.1006727	296.125820	
1.00000	21.034695	209.389202	19.671979
53.416593	4.481666	302.373431	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.841612	-33.216887	-1.759391
-199.669951	-13.532417	-1191.811	
0.25000	-3.841612	-33.210261	-1.759391
-199.684886	-17.088641	-1326.535	
0.50000	-3.841612	-33.204017	-1.759391
-199.701413	-22.980449	-1483.812	
0.75000	-3.841612	-33.198300	-1.759391
-199.719160	-36.703539	-1663.298	
1.00000	-3.841612	-33.193222	-1.759391
-199.737768	-57.314583	-1865.877	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.127844	310.292006	16.340185
113.070138	48.181362	767.731694	
0.25000	18.127844	310.300191	16.340185
113.049767	34.626075	623.755192	
0.50000	18.127844	310.308900	16.340185
113.030450	24.011080	521.294388	
0.75000	18.127844	310.317956	16.340185
113.012546	23.919819	475.037389	
1.00000	18.127844	310.327226	16.340185
112.996390	31.739272	500.028763	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.172986	-63.863557	-8.626220
-439.764697	-31.464434	-2034.490	
0.25000	-10.172986	-63.856931	-8.626220
-439.779639	-27.900776	-2215.455	
0.50000	-10.172986	-63.850685	-8.626220
-439.796175	-27.803354	-2433.898	
0.75000	-10.172986	-63.844968	-8.626220
-439.813931	-37.042650	-2689.839	
1.00000	-10.172986	-63.839889	-8.626220
-439.832547	-54.763096	-2981.706	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.630199	583.468152	23.633503
545.576676	66.640747	1432.483	
0.25000	25.630199	606.035129	23.633503
508.505660	48.004227	1244.856	
0.50000	25.630199	629.867315	23.633503
475.410954	32.765257	1081.472	
0.75000	25.630199	654.589574	23.633503
465.667523	30.006352	956.193132	
1.00000	25.630199	679.776661	23.633503
458.490748	35.209489	889.715715	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.304366	-160.965390	-10.349285
-581.593957	-80.497898	-3287.720	
0.25000	-22.304366	-144.525752	-10.349285
-581.597004	-79.109669	-3657.320	
0.50000	-22.304366	-128.985105	-10.349285
-581.823190	-81.656407	-4081.276	
0.75000	-22.304366	-114.713095	-10.349285
-584.222300	-96.062625	-4562.195	
1.00000	-22.304366	-102.072465	-10.349285
-603.093912	-118.636864	-5102.897	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.300645	528.385721	21.010993
573.265205	85.201548	1354.961	
0.25000	26.300645	547.185641	21.010993
542.382372	69.762032	1177.423	
0.50000	26.300645	567.039572	21.010993
514.812093	57.668711	1026.387	
0.75000	26.300645	587.634999	21.010993
506.695112	57.139973	918.078429	
1.00000	26.300645	608.617661	21.010993
500.716340	64.821133	870.483918	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.596290	-164.380810	-13.507974
-694.362060	-81.506406	-3188.851	
0.25000	-22.596290	-150.685405	-13.507974
-694.364598	-75.816002	-3488.470	
0.50000	-22.596290	-137.738924	-13.507974
-694.553028	-73.861504	-3841.925	
0.75000	-22.596290	-125.849310	-13.507974
-696.551659	-83.071930	-4260.881	
1.00000	-22.596290	-115.318753	-13.507974
-712.273074	-101.345739	-4716.384	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.325925	59.445081	3.355324
198.142302	57.148396	252.629039	
0.25000	11.325925	59.453267	3.355324
198.121909	54.619166	223.357367	
0.50000	11.325925	59.461978	3.355324
198.102573	52.602902	202.054881	
0.75000	11.325925	59.471036	3.355324
198.084650	51.880558	192.690492	
1.00000	11.325925	59.480307	3.355324
198.068477	52.908764	202.990999	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.508718	-49.153715	-5.317463
-319.992305	-16.978487	-655.962937	
0.25000	-5.508718	-49.147086	-5.317463
-320.007273	-12.238016	-637.999978	
0.50000	-5.508718	-49.140838	-5.317463
-320.023834	-8.220974	-627.221807	
0.75000	-5.508718	-49.135118	-5.317463
-320.041616	-6.065430	-629.676922	
1.00000	-5.508718	-49.130036	-5.317463
-320.060260	-5.497630	-641.693941	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.880990	134.831738	4.704613
286.800305	75.994107	467.229556	
0.25000	13.880990	134.839921	4.704613
286.779970	74.051412	401.748901	
0.50000	13.880990	134.848628	4.704613
286.760687	74.000212	355.874405	
0.75000	13.880990	134.857682	4.704613
286.742814	74.490121	344.642081	
1.00000	13.880990	134.866949	4.704613
286.726686	93.104453	367.461029	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.864196	-78.455683	-18.163648
-557.965833	-54.232795	-1358.054	
0.25000	-17.864196	-78.449062	-18.163648
-557.980735	-35.143701	-1361.430	
0.50000	-17.864196	-78.442821	-18.163648
-557.997229	-16.315437	-1366.353	
0.75000	-17.864196	-78.437108	-18.163648
-558.014941	-8.392602	-1433.699	
1.00000	-17.864196	-78.432032	-18.163648
-558.033511	-8.553686	-1500.600	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.293215	268.102366	10.305543
269.279472	80.777102	770.777244	
0.25000	19.293215	268.190751	10.305543
269.059779	74.499665	645.860017	
0.50000	19.293215	268.282489	10.305543
268.851448	70.593784	556.246378	
0.75000	19.293215	268.382578	10.305543
268.658350	73.445193	515.493311	
1.00000	19.293215	268.482667	10.305543
268.484108	81.910403	546.032918	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.745423	-96.929764	-13.560265
-666.650530	-42.371075	-2147.933	
0.25000	-13.745423	-96.858240	-13.560265
-665.811555	-39.015883	-2246.148	
0.50000	-13.745423	-96.790830	-13.560265
-666.989784	-24.452874	-2380.156	
0.75000	-13.745423	-96.729118	-13.560265
-667.181168	-24.682432	-2554.890	
1.00000	-13.745423	-96.674294	-13.560265
-667.381829	-31.824505	-2763.917	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.708058	450.590312	23.257813
501.966304	101.883823	1201.491	
0.25000	30.708058	463.886760	23.257813
473.336737	83.093320	1039.918	
0.50000	30.708058	478.000506	23.257813
446.050698	68.255705	907.295435	
0.75000	30.708058	492.652169	23.257813
420.736253	65.507870	819.691410	
1.00000	30.708058	507.615661	23.257813
406.130807	73.074894	796.413248	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.657638	-152.230251	-13.059784
-695.594845	-64.699963	-2920.365	
0.25000	-18.657638	-141.961257	-13.059784
-696.730338	-59.048981	-3151.784	
0.50000	-18.657638	-132.268395	-13.059784
-714.676338	-57.582198	-3443.539	
0.75000	-18.657638	-123.391088	-13.059784
-737.857969	-67.870827	-3775.936	
1.00000	-18.657638	-115.507798	-13.059784
-762.170663	-87.870843	-4159.455	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.226982	545.557096	15.503423
646.082423	71.163907	2040.932	
0.25000	21.226982	572.926994	15.503423
646.082423	57.478918	1675.205	
0.50000	21.226982	601.804503	15.503423
646.082423	45.495383	1298.692	
0.75000	21.226982	631.606522	15.503423
646.082423	41.915031	953.294281	
1.00000	21.226982	661.488707	15.503423
646.082423	49.483312	709.323656	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.517392	-156.628678	-15.269459
-562.561008	-73.744059	-2397.607	
0.25000	-17.517392	-129.493012	-15.269459
-562.561008	-68.613001	-2553.902	
0.50000	-17.517392	-103.308779	-15.269459
-562.561008	-72.669067	-2710.242	
0.75000	-17.517392	-79.790565	-15.269459
-576.825445	-78.301298	-2867.001	
1.00000	-17.517392	-65.743557	-15.269459
-602.455655	-87.137752	-3024.227	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.536189	694.679054	23.633503
785.883525	101.883923	1669.152	
0.25000	31.536189	721.373463	23.633503
789.196440	83.093320	1444.785	
0.50000	31.536189	749.474737	23.633503
792.509354	74.000212	1247.274	
0.75000	31.536189	778.496709	23.633503
795.822268	79.490121	1091.055	
1.00000	31.536189	807.964133	23.633503
799.135255	93.104453	997.933711	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.523666	-167.766814	-18.163648
-723.655768	-113.554335	-3469.944	
0.25000	-34.523666	-151.843663	-18.163648
-723.655768	-112.914699	-3942.655	
0.50000	-34.523666	-138.036894	-18.163648
-723.655768	-115.373656	-4480.900	
0.75000	-34.523666	-125.849310	-18.163648
-737.857969	-129.556287	-5088.526	
1.00000	-34.523666	-115.507798	-18.163648
-762.170663	-151.135458	-5771.043	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.536189	694.679054	23.633503
785.883525	101.883923	2040.932	
0.25000	31.536189	721.373463	23.633503
789.196440	83.093320	1675.205	
0.50000	31.536189	749.474737	23.633503
792.509354	74.000212	1298.692	
0.75000	31.536189	778.496709	23.633503
795.822268	79.490121	1091.055	
1.00000	31.536189	807.964133	23.633503
799.135255	93.104453	997.933711	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.523666	-167.766814	-18.163648
-723.655768	-113.554335	-3469.944	
0.25000	-34.523666	-151.843663	-18.163648
-723.655768	-112.914699	-3942.655	
0.50000	-34.523666	-138.036894	-18.163648
-723.655768	-115.373656	-4480.900	
0.75000	-34.523666	-125.849310	-18.163648
-737.857969	-129.556287	-5088.526	
1.00000	-34.523666	-115.507798	-18.163648
-762.170663	-151.135458	-5771.043	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.536189	694.679054	23.633503
785.883525	101.883923	2040.932	
0.25000	31.536189	721.373463	23.633503
789.196440	83.093320	1675.205	
0.50000	31.536189	749.474737	23.633503
792.509354	74.000212	1298.692	
0.75000	31.536189	778.496709	23.633503
795.822268	79.490121	1091.055	
1.00000	31.536189	807.964133	23.633503
799.135255	93.104453	997.933711	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.523666	-167.766814	-18.163648
-723.655768	-113.554335	-3469.944	
0.25000	-34.523666	-151.843663	-18.163648
-723.655768	-112.914699	-3942.655	
0.50000	-34.523666	-138.036894	-18.163648
-723.655768	-115.373656	-4480.900	
0.75000	-34.523666	-125.849310	-18.163648
-737.857969	-129.556287	-5088.526	
1.00000	-34.523666	-115.507798	-18.163648
-762.170663	-151.135458	-5771.043	

ELEM 42 ========== LENGTH = 3.491179

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.778875	437.730973	8.361296
499.006005	19.946013	391.274021	
0.25000	8.778875	455.292091	8.361296
499.006005	34.692036	297.707213	
0.50000	8.778875	473.320787	8.361296
499.006005	49.660162	291.793260	
0.75000	8.778875	491.702355	8.361296
499.006005	64.663470	316.994277	
1.00000	8.778875	509.989751	8.361296
499.006005	79.986561	342.195295	

COMB DB-G1-1 ---------- MIN

```
 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -12.642218  -28.900505  -20.206380
-353.572837  -50.617531  -1590.467
 0.25000  -12.642218  -28.900505  -20.206380
-353.572837  -45.025377  -1706.993
 0.50000  -12.642218  -28.900505  -20.206380
-353.572837  -39.674041  -1823.659
 0.75000  -12.642218  -28.900505  -20.206380
-353.572837  -34.429808  -1940.500
 1.00000  -12.642218  -28.900505  -20.206380
-353.572837  -33.974817  -2057.781

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  20.821573  635.404673  51.029800
589.404989  18.770740  629.317009
 0.25000  20.821573  657.511156  51.029800
589.404989  29.973620  503.984758
 0.50000  20.821573  680.165987  51.029800
589.404989  42.140102  501.620972
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 745

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
   T          M2          M3
 0.75000  20.821573  703.212758  51.029800
589.404989  55.593401  545.033858
 1.00000  20.821573  726.111880  51.029800
589.404989  71.040045  588.446744

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -15.677196  -56.759623  -23.637404
-534.668288  -85.851586  -2579.803
 0.25000  -15.677196  -50.135431  -23.637404
-534.668288  -117.371606  -2733.958
 0.50000  -15.677196  -50.135431  -23.637404
-534.668288  -149.558280  -2888.838
 0.75000  -15.677196  -50.135431  -23.637404
-534.668288  -182.067255  -3043.726
 1.00000  -15.677196  -50.135431  -23.637404
-534.668288  -214.580327  -3198.752

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  17.042695  645.269098  42.235232
622.705150  22.011200  709.071530
 0.25000  17.042695  665.565679  42.235232
622.705150  29.221571  618.049050
 0.50000  17.042695  686.362726  42.235232
622.705150  41.526740  630.237794
 0.75000  17.042695  707.515747  42.235232
622.705150  55.309259  684.945734
 1.00000  17.042695  728.539297  42.235232
622.705150  71.007035  739.653674

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -14.455993  -75.771937  -23.249007
-618.483160  -82.753080  -3023.348
 0.25000  -14.455993  -68.961612  -23.249007
-618.483160  -107.434465  -3160.076
 0.50000  -14.455993  -68.961612  -23.249007
-618.483160  -132.907449  -3297.783
 0.75000  -14.455993  -68.961612  -23.249007
-618.483160  -158.807650  -3435.797
 1.00000  -14.455993  -68.961612  -23.249007
-618.483160  -184.824745  -3573.915

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  16.189116  566.316232  40.070513
636.664601  36.438285  688.086723
 0.25000  16.189116  583.238177  40.070513
636.664601  56.622873  622.772604
 0.50000  16.189116  600.577290  40.070513
636.664601  85.241463  643.270391
 0.75000  16.189116  618.213074  40.070513
636.664601  116.396489  699.282423
 1.00000  16.189116  635.741780  40.070513
636.664601  149.327035  755.294455

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -18.011486  -94.147470  -42.164459
-658.196749  -70.425296  -2880.606
 0.25000  -18.011486  -88.447848  -42.164459
-658.196749  -92.308813  -2975.747
 0.50000  -18.011486  -88.447848  -42.164459
-658.196749  -114.887254  -3072.306
 0.75000  -18.011486  -88.447848  -42.164459
-658.196749  -139.971145  -3169.509
 1.00000  -18.011486  -88.447848  -42.164459
-658.196749  -165.647861  -3267.350

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  12.130406  161.142941  46.782060
82.105552  2.981571  219.428970
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 746

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
   T          M2          M3
 0.25000  12.130406  161.152845  46.782060
82.077354  6.370145  210.909934
 0.50000  12.130406  161.162915  46.782060
82.053258  9.812835  230.975106
 0.75000  12.130406  161.173066  46.782060
82.035365  13.266286  251.072911
 1.00000  12.130406  161.183098  46.782060
82.035365  16.720657  271.173623

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -2.706991  -23.214080  -3.960049
-201.301014  -30.592323  -1024.455
 0.25000  -2.706991  -23.204601  -3.960049
-201.316708  -67.766672  -1049.348
 0.50000  -2.706991  -23.195469  -3.960049
-201.343779  -108.373419  -1074.342
 0.75000  -2.706991  -23.189179  -3.960049
-201.373252  -149.149806  -1099.679
 1.00000  -2.706991  -23.186090  -3.960049
-201.402878  -189.932719  -1125.024

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  10.089164  220.552504  41.064654
207.836513  17.689162  365.259466
 0.25000  10.089164  220.562408  41.064654
207.808315  32.634450  374.446081
 0.50000  10.089164  220.572478  41.064654
207.784219  52.543293  410.238111
 0.75000  10.089164  220.582629  41.064654
207.766326  72.579259  446.062772
 1.00000  10.089164  220.592661  41.064654
207.766326  92.658189  481.887434

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -7.402616  -57.329338  -23.007193
-361.318855  -32.291332  -1674.858
 0.25000  -7.402616  -57.319859  -23.007193
-361.334549  -65.496616  -1687.147
 0.50000  -7.402616  -57.310727  -23.007193
-361.361620  -99.646378  -1699.967
 0.75000  -7.402616  -57.304437  -23.007193
-361.391094  -135.099912  -1713.366
 1.00000  -7.402616  -57.301348  -23.007193
-361.420719  -170.723218  -1727.101

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  14.160371  516.491179  53.854620
457.529749  19.366438  638.986689
 0.25000  14.160371  533.596568  53.854620
456.532761  36.983321  590.771376
 0.50000  14.160371  551.059349  53.854620
456.532761  58.972599  597.014266
 0.75000  14.160371  568.745033  53.854620
456.532761  81.093908  648.951406
 1.00000  14.160371  586.271784  53.854620
456.532761  103.255684  700.888546

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -12.864043  -96.679515  -29.743900
-532.461146  -68.467249  -2704.649
 0.25000  -12.864043  -84.905560  -29.743900
-532.461146  -98.248571  -2792.622
 0.50000  -12.864043  -75.527122  -29.743900
-532.461146  -137.763728  -2881.043
 0.75000  -12.864043  -73.936936  -29.743900
-532.461146  -184.164226  -2970.234
 1.00000  -12.864043  -73.936936  -29.743900
-532.461146  -230.713833  -3060.054
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 747

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  14.480254  454.287825  50.905947
504.358380  33.239271  623.907385
 0.25000  14.480254  468.535515  50.905947
503.527954  45.634074  593.511414
 0.50000  14.480254  483.080890  50.905947
503.527954  65.061615  608.567230
 0.75000  14.480254  497.811928  50.905947
503.527954  88.875210  661.683422
 1.00000  14.480254  512.410585  50.905947
503.527954  113.515823  714.799613

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -12.419467  -109.716470  -31.930098
-593.075485  -58.360252  -2560.333
 0.25000  -12.419467  -99.909522  -31.930098
-593.075485  -84.257065  -2612.604
 0.50000  -12.419467  -92.097886  -31.930098
-593.075485  -118.311626  -2665.780
 0.75000  -12.419467  -90.773362  -31.930098
-593.075485  -161.239838  -2719.928
 1.00000  -12.419467  -90.773362  -31.930098
-593.075485  -204.870967  -2774.982

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  5.586259  34.544272  11.004698
191.880951  26.950164  135.614324
 0.25000  5.586259  34.554180  11.004698
191.852429  24.329279  150.160097
 0.50000  5.586259  34.564254  11.004698
191.828198  22.753812  164.744076
 0.75000  5.586259  34.574410  11.004698
191.810062  22.259493  179.367253
 1.00000  5.586259  34.584446  11.004698
191.810062  23.709443  193.977390

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -4.012269  -44.172544  -3.580308
-233.432360  -3.064195  -430.241560
 0.25000  -4.012269  -44.163059  -3.580308
-233.448439  -4.563623  -397.302079
 0.50000  -4.012269  -44.153921  -3.580308
-233.475943  -7.238464  -364.855943
 0.75000  -4.012269  -44.147595  -3.580308
-233.505460  -13.461573  -333.189512
 1.00000  -4.012269  -44.144467  -3.580308
-233.535185  -22.136983  -302.154671

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  7.638189  80.359728  16.772694
320.150940  48.462654  261.162259
 0.25000  7.638189  80.369632  16.772694
320.122742  72.827095  287.928150
 0.50000  7.638189  80.379702  16.772694
320.098646  100.023767  315.795004
 0.75000  7.638189  80.389853  16.772694
320.080753  129.918387  343.694491
 1.00000  7.638189  80.399885  16.772694
320.080753  161.728323  371.593978

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -12.991204  -81.391782  -38.905488
-393.918040  -5.400502  -943.965284
 0.25000  -12.991204  -81.382303  -38.905488
-393.933735  -39.150524  -894.622886
 0.50000  -12.991204  -81.373171  -38.905488
-393.960806  -14.269464  -846.352542
 0.75000  -12.991204  -81.366881  -38.905488
-393.990279  -27.010796  -799.237982
 1.00000  -12.991204  -81.363792  -38.905488
-394.019905  -40.628563  -753.355478
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 748

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  9.194015  172.935592  27.440539
356.561450  41.998063  392.009907
 0.25000  9.194015  172.944505  27.440539
356.536072  50.836189  431.839998
 0.50000  9.194015  172.953568  27.440539
356.514385  65.613833  473.419494
 0.75000  9.194015  172.962704  27.440539
356.498281  82.896721  515.028358
 1.00000  9.194015  172.971733  27.440539
356.498281  101.953610  556.637223

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -9.104109  -89.692900  -23.865020
-497.811300  -19.653690  -1647.087
 0.25000  -9.104109  -89.684369  -23.865020
-497.825425  -32.782989  -1612.963
 0.50000  -9.104109  -89.676150  -23.865020
-497.849789  -47.748976  -1579.800
 0.75000  -9.104109  -89.670490  -23.865020
-497.876315  -69.759848  -1547.996
 1.00000  -9.104109  -89.667709  -23.865020
-497.902979  -92.654660  -1517.045

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  16.822156  366.806608  59.001587
474.657851  37.862672  567.080841
 0.25000  16.822156  376.865171  59.001587
453.659168  48.030244  558.414523
 0.50000  16.822156  387.112725  59.001587
438.633102  63.353480  578.975563
 0.75000  16.822156  397.466234  59.001587
438.633102  80.776890  629.623032
 1.00000  16.822156  407.712323  59.001587
438.633102  99.684298  680.270501

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -11.529411  -114.373033  -24.426485
-571.047600  -49.339916  -2296.876
 0.25000  -11.529411  -104.919500  -24.426485
-571.047600  -84.825295  -2317.167
 0.50000  -11.529411  -98.377270  -24.426485
-571.249894  -128.470267  -2338.409
 0.75000  -11.529411  -93.279836  -24.426485
-592.313395  -178.062197  -2360.738
 1.00000  -11.529411  -93.279836  -24.426485
-612.325804  -228.382167  -2383.800

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  11.449493  578.533026  11.348055
622.974071  20.926299  552.314145
 0.25000  11.449493  598.102354  11.348055
628.999040  40.623145  485.894216
 0.50000  11.449493  618.169142  11.348055
635.024008  69.544768  426.238236
 0.75000  11.449493  638.530836  11.348055
640.755143  100.904435  405.122804
 1.00000  11.449493  658.839547  11.348055
645.690017  133.093308  432.831011

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -29.889799  -53.132289  -44.962376
-509.055811  -83.301143  -3159.399
 0.25000  -29.889799  -45.245671  -44.962376
-509.055811  -70.328590  -3547.830
 0.50000  -29.889799  -40.307719  -44.962376
-509.055811  -66.632088  -3961.918
 0.75000  -29.889799  -39.973798  -44.962376
-508.761978  -65.434996  -4403.606
 1.00000  -29.889799  -39.948923  -44.962376
-507.671883  -66.443708  -4873.212
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 749

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  31.123084  841.015334  69.519476
737.123546  23.046365  888.490950
 0.25000  31.123084  864.411255  69.519476
739.442374  41.159687  786.071080
 0.50000  31.123084  888.425462  69.519476
741.761288  68.356713  717.022837
 0.75000  31.123084  912.817913  69.519476
744.080201  98.777277  697.973712
 1.00000  31.123084  937.313901  69.519476
746.261546  129.935551  746.287256

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -33.350263  -100.281070  -44.511694
-728.916109  -149.419024  -5026.891
 0.25000  -33.350263  -89.813494  -44.511694
-728.916109  -188.002751  -5577.631
 0.50000  -33.350263  -79.948106  -44.511694
-728.916109  -235.707520  -6164.855
 0.75000  -33.350263  -77.076269  -44.511694
-728.916109  -286.367183  -6792.687
 1.00000  -33.350263  -76.919953  -44.511694
-728.779235  -337.164511  -7457.442

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  27.382736  853.657770  63.527537
767.185277  30.730602  997.935891
 0.25000  27.382736  875.103510  63.527537
768.862265  47.288509  925.610476
 0.50000  27.382736  897.118156  63.527537
770.539316  74.346238  881.991157
 0.75000  27.382736  919.481293  63.527537
772.216366  104.932287  882.169978
 1.00000  27.382736  941.944243  63.527537
773.816470  136.493006  945.310549

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -31.063487  -131.389341  -44.461995
-814.013844  -139.006053  -5771.479
 0.25000  -31.063487  -121.700219  -44.461995
-814.013844  -172.927028  -6264.960
 0.50000  -31.063487  -112.569665  -44.461995
-814.013844  -215.437792  -6914.956
 0.75000  -31.063487  -109.434035  -44.461995
-814.013844  -261.233325  -7542.993
 1.00000  -31.063487  -109.269277  -44.461995
-813.937064  -307.424442  -8205.708

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  25.927800  747.732694  59.995337
802.970027  61.919332  957.865360
 0.25000  25.927800  765.608694  59.995337
804.367873  91.597493  908.280436
 0.50000  25.927800  783.958902  59.995337
805.765771  133.151981  883.891177
 0.75000  25.927800  802.599595  59.995337
807.163670  178.758108  897.028732
 1.00000  25.927800  821.323685  59.995337
808.497429  225.425175  963.623743

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -34.378662  -159.334038  -61.647815
-849.086370  -118.043271  -5357.959
 0.25000  -34.378662  -151.257715  -61.647815
-849.086370  -147.840641  -5816.382
 0.50000  -34.378662  -143.646982  -61.647815
-849.086370  -186.468975  -6307.008
 0.75000  -34.378662  -141.033292  -61.647815
-849.086370  -229.290225  -6830.678
 1.00000  -34.378662  -140.895959  -61.647815
-849.022371  -272.838820  -7384.541
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 750

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  21.273575  220.023152  66.228422
81.646414  4.634312  302.495674
 0.25000  21.273575  220.029627  66.228422
81.631811  9.378893  287.041707
 0.50000  21.273575  220.036300  66.228422
81.617988  14.160400  294.554853
 0.75000  21.273575  220.043097  66.228422
81.605074  18.952960  316.454023
 1.00000  21.273575  220.049962  66.228422
81.593218  23.750619  341.609943

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -3.897843  -39.451759  -5.631209
-218.973137  -57.402457  -1865.531
 0.25000  -3.897843  -39.447294  -5.631209
-218.986149  -113.748131  -2005.543
 0.50000  -3.897843  -39.443104  -5.631209
-218.999870  -171.405336  -2155.016
 0.75000  -3.897643  -39.439238  -5.631209
-219.014127  -229.087341  -2314.936
 1.00000  -3.897843  -39.435766  -5.631209
-219.028764  -286.775174  -2479.131

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  18.167266  295.904158  59.235295
241.687789  31.012040  500.171583
 0.25000  18.167266  295.910633  59.235295
241.673181  49.890956  502.697727
 0.50000  18.167266  295.917306  59.235295
241.659353  71.832257  529.595945
 0.75000  18.167266  295.924103  59.235295
241.646434  94.400301  571.011150
 1.00000  18.167266  295.930969  59.235295
241.634573  117.296865  617.689948

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -10.309734  -95.300294  -27.090575
-408.780539  -54.181567  -2980.965
 0.25000  -10.309734  -95.295828  -27.090575
-408.793557  -101.930851  -3151.628
 0.50000  -10.309734  -95.291636  -27.090575
-408.807285  -151.359582  -3334.568
 0.75000  -10.309734  -95.287770  -27.090575
-408.821548  -201.806186  -3528.729
 1.00000  -10.309734  -95.284297  -27.090575
-408.836190  -252.651849  -3729.148

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  25.520569  674.406831  74.611521
573.027684  33.750386  889.872234
 0.25000  25.520569  692.351612  74.611521
556.145486  55.754728  856.352763
 0.50000  25.520569  710.831516  74.611521
550.422160  81.780707  840.432568
 0.75000  25.520569  729.640745  74.611521
546.169666  112.790732  836.535973
 1.00000  25.520569  748.578467  74.611521
543.359399  144.272111  894.859447

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -22.318147  -150.219668  -38.732948
-663.902471  -117.127678  -4115.311
 0.25000  -22.318147  -140.038845  -38.732948
-664.371777  -165.452463  -4507.202
 0.50000  -22.318147  -130.452179  -38.732948
-667.147767  -221.420221  -5938.407
 0.75000  -22.318147  -121.644911  -38.732948
-671.394588  -284.973628  -6396.107
 1.00000  -22.318147  -116.004183  -38.732948
-685.596068  -349.080184  -6898.456
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 751

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  25.854473  595.033528  71.158179
656.579334  63.321856  870.664265
 0.25000  25.854473  609.982992  71.158179
642.515244  80.555158  850.944856
 0.50000  25.854473  625.377419  71.158179
637.747300  104.394993  847.179581
 0.75000  25.854473  641.047365  71.158179
634.204666  135.192097  854.434577
 1.00000  25.854473  656.823854  71.158179
631.863511  167.383008  914.225952

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -22.355123  -174.067342  -41.484023
-740.466483  -99.896770  -4715.795
 0.25000  -22.355123  -165.585981  -41.484023
-741.557229  -140.579522  -5045.412
 0.50000  -22.355123  -157.599597  -41.484023
-743.869829  -189.688508  -5398.479
 0.75000  -22.355123  -150.262507  -41.484023
-747.407738  -247.658477  -5774.949
 1.00000  -22.355123  -145.560604  -41.484023
-759.238595  -306.725104  -6189.609

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  10.829711  49.983795  20.493257
280.711867  52.531695  203.111923
 0.25000  10.829711  49.990415  20.493257
280.697242  42.107451  212.455129
 0.50000  10.829711  49.996945  20.493257
280.683399  35.361644  223.901966
 0.75000  10.829711  50.003743  20.493257
280.670465  32.617809  237.243456
 1.00000  10.829711  50.010610  20.493257
280.658591  32.917239  252.259654

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000  -4.951195  -73.477793  -6.091460
```

```
-297.615416   -5.538216 -641.640317
 0.25000    -4.951195   -73.473324    -6.091460
-297.628452    7.300199 -626.585801
 0.50000    -4.951195   -73.469130    -6.091460
-297.642198   -12.793693 -614.044750
 0.75000    -4.951195   -73.465261    -6.091460
-297.656480   -21.795715 -603.912429
 1.00000    -4.951195   -73.461785    -6.091460
-297.671142   -35.103354 -595.793839

  COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.993965  107.985454   27.201197
456.745466   93.089197  367.597981
 0.25000   12.993965  107.991928   27.201197
456.730885  113.761665  391.201181
 0.50000   12.993965  107.998599   27.201197
456.717087  139.779476  419.351888
 0.75000   12.993965  108.005395   27.201197
456.704187  170.206965  451.219605
 1.00000   12.993965  108.012260   27.201197
456.692348  203.635532  486.208153

  COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -17.132777 -132.822178  -44.866618
-489.666788   -8.620402   -1500.283
 0.25000  -17.132777 -132.817717  -44.866618
-489.679777   -13.183023   -1493.370
 0.50000  -17.132777 -132.813530  -44.866618
-489.693473   -22.796025   -1491.772
 0.75000  -17.132777 -132.809669  -44.866618
-489.707705   -38.661525   -1494.845
 1.00000  -17.132777 -132.806199  -44.866618
-489.722316   -57.057480   -1501.692
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    752

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   18.700147  233.526714   48.027156
468.227046   80.938290  546.239890
 0.25000   18.700147  233.596636   48.027156
468.069511   89.636076  577.998412
 0.50000   18.700147  233.668688   48.027156
467.920444  104.880908  618.298905
 0.75000   18.700147  233.742090   48.027156
467.781068  124.487344  665.071435
 1.00000   18.700147  233.816226   48.027156
467.653161  146.938818  716.173674

  COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -13.267094 -147.937513   -31.825117
-590.977349   -31.113136   -2763.217
 0.25000  -13.267094 -147.889325   -31.825117
-591.117686   -53.950942   -2852.641
 0.50000  -13.267094 -147.841100   -31.825117
-591.265674   -82.306103   -2952.317
 0.75000  -13.267094 -147.802384   -31.825117
-591.419447   -116.742298   -3060.067
 1.00000  -13.267094 -147.764906   -31.825117
-591.577318   -153.628186   -3172.858

  COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   30.259006  482.126306   83.921230
618.855991   71.911075  796.683330
 0.25000   30.259006  492.665591   83.921230
598.542725   83.151826  791.256020
 0.50000   30.259006  503.528226   83.921230
579.260397   99.884493  801.871792
 0.75000   30.259006  514.595451   83.921230
563.938957  121.510702  822.906971
 1.00000   30.259006  525.756881   83.921230
561.379725  146.078077  873.146445

  COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -18.143968 -177.239996   -33.970371
-702.751001   -86.917157   -4406.805
 0.25000  -18.143968 -170.570360   -33.970371
-710.505939  -139.335937   -4406.007
 0.50000  -18.143968 -164.299445   -33.970371
-728.905625  -199.171492   -4672.501
 0.75000  -18.143968 -158.521297   -33.970371
-748.106786   -265.321419   -4958.076
 1.00000  -18.143968 -153.340510   -33.970371
-767.886363   -334.065225   -5259.761

  COMB      DB ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   20.821573  645.269098   59.001587
636.664601   48.462654  709.071530
 0.25000   20.821573  665.565679   59.001587
636.664601   72.827095  622.722604
 0.50000   20.821573  686.362726   59.001587
636.664601  100.023767  643.270391
 0.75000   20.821573  707.515747   59.001587
636.664601  129.318387  699.282423
 1.00000   20.821573  728.539297   59.001587
636.664601  161.728323  755.294455

  COMB      DB ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -18.011486 -114.373023   -42.164459
-658.196749   -85.851586   -3023.348
 0.25000  -18.011486 -104.919500   -42.164459
-658.196749  -117.371606   -3160.076
 0.50000  -18.011486   -98.377270   -42.164459
-658.196749  -149.558280   -3297.783
 0.75000  -18.011486   -93.279836   -42.164459
-658.196749  -184.164226   -3435.797
 1.00000  -18.011486   -93.279836   -42.164459
-658.196749  -230.713833   -3573.915
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    753

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB      DL ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   31.123084  853.657770   83.921230
802.970027   93.089197  997.935891
 0.25000   31.123084  875.103510   83.921230
804.367873  113.761665  925.610476
 0.50000   31.123084  897.118156   83.921230
805.765771  139.779476  883.891177
 0.75000   31.123084  919.481293   83.921230
807.163670  178.758108  897.028732
 1.00000   31.123084  941.944243   83.921230
808.497429  225.425175  963.623743

  COMB      DL ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -34.378662 -177.239996   -61.647815
-849.086370 -149.419024   -5771.479
 0.25000  -34.378662 -170.570360   -61.647815
-849.086370 -188.002751   -6324.960
 0.50000  -34.378662 -164.299445   -61.647815
-849.086370 -235.707520   -6914.956
 0.75000  -34.378662 -158.521297   -61.647815
-849.086370 -286.367183   -7542.993
 1.00000  -34.378662 -153.340510   -61.647815
-849.022371 -349.080184   -8205.708

  COMB      CAR ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   31.123084  853.657770   83.921230
802.970027   93.089197  997.935891
 0.25000   31.123084  875.103510   83.921230
804.367873  113.761665  925.610476
 0.50000   31.123084  897.118156   83.921230
805.765771  139.779476  883.891177
 0.75000   31.123084  919.481293   83.921230
807.163670  178.758108  897.028732
 1.00000   31.123084  941.944243   83.921230
808.497429  225.425175  963.623743

  COMB      CAR ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -34.378662 -177.239996   -61.647815
-849.086370 -149.419024   -5771.479
 0.25000  -34.378662 -170.570360   -61.647815
-849.086370 -188.002751   -6324.960
 0.50000  -34.378662 -164.299445   -61.647815
-849.086370 -235.707520   -6914.956
 0.75000  -34.378662 -158.521297   -61.647815
-849.086370 -286.367183   -7542.993
 1.00000  -34.378662 -153.340510   -61.647815
-849.022371 -349.080184   -8205.708

  COMB    DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   31.123084  853.657770   83.921230
802.970027   93.089197  997.935891
 0.25000   31.123084  875.103510   83.921230
804.367873  113.761665  925.610476
 0.50000   31.123084  897.118156   83.921230
805.765771  139.779476  883.891177
 0.75000   31.123084  919.481293   83.921230
807.163670  178.758108  897.028732
 1.00000   31.123084  941.944243   83.921230
808.497429  225.425175  963.623743

  COMB    DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -34.378662 -177.239996   -61.647815
-849.086370 -149.419024   -5771.479
 0.25000  -34.378662 -170.570360   -61.647815
-849.086370 -188.002751   -6324.960
 0.50000  -34.378662 -164.299445   -61.647815
-849.086370 -235.707520   -6914.956
 0.75000  -34.378662 -158.521297   -61.647815
-849.086370 -286.367183   -7542.993
 1.00000  -34.378662 -153.340510   -61.647815
-849.022371 -349.080184   -8205.708
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    754

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM      43 ================== LENGTH =    4.987727

  COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    6.291332   12.086426   20.367368
293.846363   79.820756  343.023649
 0.25000    6.291332   12.089112   20.367368
293.846363   58.009550  328.131256
 0.50000    6.291332   17.055841   20.367368
293.846363   36.205611  313.238886
 0.75000    6.291332   28.456063   20.367368
293.846363   18.965213  401.587552
 1.00000    6.291332   41.743947   20.367368
293.846363    8.941019  621.806731

  COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -11.501385 -510.277331   -6.401624
-525.412026  -33.038797   -2053.442
 0.25000  -11.501385 -486.146840   -6.401624
-525.412026  -30.920236   -1739.900
 0.50000  -11.501385 -460.983347   -6.401624
-525.412026  -33.975361   -1557.840
 0.75000  -11.501385 -436.442273   -6.401624
-525.412026  -37.152234   -1419.353
 1.00000  -11.501385 -413.125005   -6.401624
-525.412026  -40.717227   -1283.719

  COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   16.195692   21.364405   21.835432
459.577536   70.173430  589.906752
 0.25000   16.195692   21.366434   21.835432
459.577536   43.964631  566.194130
 0.50000   16.195692   33.826156   21.835432
459.577536   23.494692  542.482151
 0.75000   16.195692   48.750149   21.835432
459.577536   13.607469  647.076900
 1.00000   16.195692   70.689544   21.835432
459.577536   10.775474  963.399788

  COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -14.542721 -732.717160   -41.232922
-605.941117 -213.420850   -3199.351
 0.25000  -14.542721 -701.856949   -41.232922
-605.941117 -170.020286   -2721.857
 0.50000  -14.542721 -670.591418   -41.232922
-605.941117 -128.203949   -2447.735
 0.75000  -14.542721 -640.046915   -41.232922
-605.941117   -87.250312   -2271.093
 1.00000  -14.542721 -610.939864   -41.232922
-605.941117   -58.656600   -2096.063

  COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.225284   47.103295   21.188314
569.691914   70.584676  741.639542
 0.25000   12.225284   47.105058   21.188314
569.691914   44.912357  715.676797
 0.50000   12.225284   59.005293   21.188314
569.691914   25.943508  689.714073
 0.75000   12.225284   72.749951   21.188314
569.691914   14.959110  781.430301
 1.00000   12.225284   93.279888   21.188314
569.691914   14.305860   1049.270

  COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -14.265869 -751.066757   -34.201737
-632.235009 -182.739731   -3577.349
 0.25000  -14.265869 -722.697218   -34.201737
-632.235009 -146.945189   -3049.346
 0.50000  -14.265869 -694.021961   -34.201737
-632.235009 -112.757270   -2761.829
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    755

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T         M2         M3
 0.75000  -14.265869 -666.004063   -34.201737
-632.235009   -79.689311   -2612.910
 1.00000  -14.265869 -639.300337   -34.201737
-632.235009   -56.063467   -2466.384

  COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.300381   70.051986   36.082088
641.191408  149.088115  757.448075
 0.25000   12.300381   70.053453   36.082088
641.191408  105.356945  735.273013
 0.50000   12.300381   79.988754   36.082088
641.191408   68.044169  713.110138
 0.75000   12.300381   91.449402   36.082088
641.191408   40.422867  789.059500
 1.00000   12.300381  108.577385   36.082088
641.191408   29.457002   1011.642

  COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -17.229320 -665.348369   -32.525708
-633.193641 -163.486130   -3272.468
 0.25000  -17.229320 -641.694660   -32.525708
-633.193641 -128.814988   -2787.478
 0.50000  -17.229320 -617.788035   -32.525708
-633.193641  -97.925525   -2548.603
 0.75000  -17.229320 -594.429334   -32.525708
-633.193641   -68.705353   -2451.017
 1.00000  -17.229320 -572.166137   -32.525708
-633.193641   -52.666944   -2356.976

  COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  10.455577   14.672248    3.118851
200.779873   16.771477  271.938451
 0.25000  10.455577   14.679170    3.118851
200.733798   12.892211  263.409354
 0.50000  10.455577   14.687886    3.118851
200.694960    9.021601  254.890584
 0.75000  10.455577   14.699943    3.118851
200.657303    5.196685  246.405610
 1.00000  10.455577   14.713761    3.118851
200.639683    2.176010  296.107444

  COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -2.826812 -171.191148   -38.128132
-68.846511 -190.096335   -1130.713
 0.25000   -2.826812 -171.176463   -38.128132
-68.846511 -142.605292 -969.686931
 0.50000   -2.826812 -171.163210   -38.128132
-68.861077   -95.135937 -887.174876
 0.75000   -2.826812 -171.150173   -38.128132
-68.892827   -47.776518 -865.234337
 1.00000   -2.826812 -171.137637   -38.128132
-68.936899   -13.592845 -843.381503

  COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    7.752395   52.961764   18.653663
384.767800   93.137505  483.355019
 0.25000    7.752395   52.968686   18.653663
384.721725   69.984199  471.428658
 0.50000    7.752395   52.977401   18.653663
384.682887   46.842577  459.529289
 0.75000    7.752395   52.989458   18.653663
384.645230   24.276114  447.667778
 1.00000    7.752395   53.003277   18.653663
384.627610   13.581024  489.966529

  COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -7.464017 -247.470317   -33.763901
-183.239115 -169.601775   -1735.259
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    756

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T         M2         M3
 0.25000   -7.464017 -247.455632   -33.763901
-183.239115 -127.571451   -1488.810
 0.50000   -7.464017 -247.442379   -33.763901
-183.253682   -86.505403   -1378.972
 0.75000   -7.464017 -247.429342   -33.763901
-183.285431   -45.941025   -1379.884
 1.00000   -7.464017 -247.416806   -33.763901
-183.329503   -18.577998   -1382.601

  COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   10.385105   56.626457   24.524965
536.125780  103.103659  702.846273
 0.25000   10.385105   63.915670   24.524965
514.846984   77.863566  680.904959
 0.50000   10.385105   75.923721   24.524965
514.846984   52.645712  658.978722
 0.75000   10.385105   90.859401   24.524965
514.846984   27.960708  733.734823
 1.00000   10.385105  113.442316   24.524965
514.846984   15.708476  920.390575

  COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -13.129818 -618.448218   -46.056774
-454.408279 -229.597507   -3067.493
 0.25000  -13.129818 -593.834847   -46.056774
-454.408279 -172.201133   -2721.359
 0.50000  -13.129818 -570.281242   -46.056774
-454.408279 -115.726611   -2391.232
 0.75000  -13.129818 -547.194211   -46.056774
-454.408279   -69.227144   -2303.110
 1.00000  -13.129818 -525.098915   -46.056774
-473.262542   -45.338683   -2216.755

  COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   10.827107   76.461274   25.871368
621.995655  113.165935  716.903447
 0.25000   10.827107   82.532720   25.871368
604.271785   88.088070  698.961837
 0.50000   10.827107   92.534655   25.871368
604.271785   64.665855  681.054420
 0.75000   10.827107  104.975117   25.871368
604.271785   43.561631  743.676529
 1.00000   10.827107  123.765234   25.871368
604.271785   33.806472  899.721629

  COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -12.785286 -548.675682   -43.180462
-489.253972 -203.528571   -2784.044
 0.25000  -12.785286 -528.174326   -43.180462
-489.253972 -149.994437   -2374.320
 0.50000  -12.785286 -508.555687   -43.180462
-489.253972   -99.739725   -2192.359
 0.75000  -12.785286 -489.325672   -43.180462
-489.253972   -59.485458   -2147.461
 1.00000  -12.785286 -470.921711   -43.180462
-504.958361   -42.225152   -2105.364

  COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.613981   43.935718    2.929071
274.483668   22.814488  194.672629
 0.25000    3.613981   43.942646    2.929071
274.437462   25.255058  195.788456
 0.50000    3.613981   43.951390    2.929071
274.398570   27.823236  196.980864
 0.75000    3.613981   43.963453    2.929071
274.360484   30.566134  198.231940
 1.00000    3.613981   43.977282    2.929071
274.342479   33.928357  199.608997
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    757

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -3.993439  -47.750562   -8.378844
-171.596184  -21.547813  -307.179842
 0.25000   -3.993439  -47.735868   -8.378844
-171.596184  -11.471775  -253.790760
 0.50000   -3.993439  -47.722611   -8.378844
-171.610982   -8.275565  -274.642259
 0.75000   -3.993439  -47.709569   -8.378844
-171.642783   -6.341418  -318.540292
 1.00000   -3.993439  -47.697028   -8.378844
-171.687312   -6.036043  -364.544258

  COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    5.813329   80.393887   30.926919
458.891267  161.050683  372.907836
 0.25000    5.813329   80.400809   30.926919
458.845193  128.989262  372.013472
 0.50000    5.813329   80.409524   30.926919
458.806355   97.656759  371.247243
 0.75000    5.813329   80.421581   30.926919
458.768698   67.652630  370.527774
 1.00000    5.813329   80.435400   30.926919
458.751078   50.035329  372.112967

  COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -11.643360 -107.455658   -13.352995
-287.441971   -39.506658   -760.705833
 0.25000  -11.643360 -107.440973   -13.352995
-287.441971   -23.345986   -641.179467
 0.50000  -11.643360 -107.427229   -13.352995
-287.456538   -12.529542   -648.771829
 0.75000  -11.643360 -107.414683   -13.352995
-287.488287    -6.764477   -718.323243
 1.00000  -11.643360 -107.402147   -13.352995
-287.532359   -14.737867   -791.256203

  COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    6.390109   89.844858   18.630963
567.189249  101.597473  558.479919
 0.25000    6.390109   89.851088   18.630963
567.147782   84.113404  551.535774
 0.50000    6.390109   89.858932   18.630963
567.112828   67.125005  544.705991
 0.75000    6.390109   89.869784   18.630963
567.078937   51.167256  537.913038
 1.00000    6.390109   89.882220   18.630963
567.063079   45.837970  534.734652

  COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -9.359660 -211.225300   -22.062610
-322.134129   -90.924857   -1301.706
 0.25000   -9.359660 -211.212083   -22.062610
-322.134129   -63.854899   -1301.069
 0.50000   -9.359660 -211.200155   -22.062610
-322.147239   -41.421023   -1250.473
 0.75000   -9.359660 -211.188422   -22.062610
-322.175814   -23.447881   -1308.419
 1.00000   -9.359660 -211.177139   -22.062610
-322.215479   -17.139178   -1369.922

  COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.278092   82.436783   19.216689
664.781970   99.053825  682.331517
 0.25000   12.278092   89.222701   19.216689
639.798396   81.204389  667.993373
 0.50000   12.278092   96.548644   19.216689
612.568789   63.778669  657.684454
 0.75000   12.278092  107.760477   19.216689
603.545294   47.622096  695.532057
 1.00000   12.278092  121.427143   19.216689
603.545294   39.851851  807.121722
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    758

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -11.662197 -445.589372   -48.638946
-413.052634  -227.043116   -2395.113
 0.25000  -11.662197 -430.884118   -48.638946
-413.052634  -166.768753   -2042.915
 0.50000  -11.662197 -417.233777   -48.638946
-413.052634  -110.569762   -1906.921
 0.75000  -11.662197 -403.829494   -48.638946
-432.953647   -58.093177   -1900.325
 1.00000  -11.662197 -390.970480   -48.638946
-460.077404   -34.439481   -1896.757

  COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   11.654586   16.438924   35.825664
382.848141  131.994790  435.153942
 0.25000   11.654586   17.039516   35.825664
383.799621   92.678207  425.981113
 0.50000   11.654586   26.977744   35.825664
383.809874   53.427663  513.199813
 0.75000   11.654586   38.154491   35.825664
383.809874   23.336184  622.219303
 1.00000   11.654586   50.097258   35.825664
383.809874   10.312838  739.794991

  COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -21.557964 -646.576796    -8.716260
```

```
-745.339373  -64.089515   -4860.744
 0.25000   -21.557964  -618.175202    -8.716260
-737.683190  -58.683872   -4218.885
 0.50000   -21.557964  -589.825043    -8.716260
-729.085780  -55.069588   -3629.780
 0.75000   -21.557964  -562.100381    -8.716260
-720.478117  -60.683070   -3091.195
 1.00000   -21.557964  -535.472524    -8.716260
-711.870454  -79.688496   -2598.182

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   22.014629   31.202955   36.353340
562.214887  128.120698  749.043425
 0.25000   22.014629   35.692925   36.353340
562.311782   85.923446  732.734949
 0.50000   22.014629   48.540065   36.353340
562.311782   45.271967  838.827974
 0.75000   22.014629   62.955295   36.353340
562.311782   21.995512  982.896307
 1.00000   22.014629   78.392045   36.353340
562.311782   13.393975   1177.127

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -27.959435  -927.594901  -57.973615
-853.341631  -334.548503   -7461.557
 0.25000  -27.959435  -893.556398  -57.973615
-850.125689  -267.939771   -6537.061
 0.50000  -27.959435  -859.706951  -57.973615
-846.812737  -202.025277   -5679.748
 0.75000  -27.959435  -826.641571  -57.973615
-843.499786  -149.608748   -4896.312
 1.00000  -27.959435  -794.924990  -57.973615
-840.186834  -112.518478   -4180.350

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   19.216089   56.318581   36.479612
701.920778  134.911322  943.154656
 0.25000   19.216089   60.784861   36.479612
701.975032   92.331749  928.995401
 0.50000   19.216089   72.649723   36.479612
701.975032   51.668428   1022.233
 0.75000   19.216089   85.959996   36.479612
701.975032   28.489104   1150.773
 1.00000   19.216089  100.215789   36.479612
701.975032   19.985217   1327.758
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                       759

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -26.989208  -953.044846  -53.045259
-866.028556  -304.475496   -8211.553
 0.25000  -26.989208  -921.841325  -53.045259
-863.686962  -243.476747   -7268.944
 0.50000  -26.989208  -890.818083  -53.045259
-861.292881  -183.374702   -6389.751
 0.75000  -26.989208  -860.516724  -53.045259
-858.895074  -137.215414   -5582.206
 1.00000  -26.989208  -831.455516  -53.045259
-856.499130  -105.094602   -4846.702

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   19.132702   83.930531   50.688131
799.382520  224.730636  970.424215
 0.25000   19.132702   87.653379   50.688131
799.427743  164.900338  948.141655
 0.50000   19.132702   97.543281   50.688131
799.427743  107.320377   1023.572
 0.75000   19.132702  108.637999   50.688131
799.427743   66.937672   1131.074
 1.00000   19.132702  120.520847   50.688131
799.427743   45.202750   1283.115

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -28.082313  -842.094020  -49.753992
-850.894547  -270.404031   -7389.801
 0.25000  -28.082313  -816.084466  -49.753992
-848.902723  -213.478286   -6584.101
 0.50000  -28.082313  -790.225183  -49.753992
-846.907147  -158.493762   -5834.684
 0.75000  -28.082313  -764.967621  -49.753992
-844.908466  -117.142566   -5148.536
 1.00000  -28.082313  -740.743783  -49.753992
-842.911337   -92.999647   -4527.729

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.018632   18.333222    4.399986
203.917709   23.889353  342.436800
 0.25000   10.018632   18.337569    4.399986
203.897932   18.515025  331.987049
 0.50000   10.018632   18.342599    4.399986
203.878897   13.152001  324.940890
 0.75000   10.018632   18.348197    4.399986
203.860920   10.242478  341.409986
 1.00000   10.018632   18.354233    4.399986
203.844403    3.380827  397.945807

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.354020  -228.915168  -54.101061
-85.177766  -287.212876   -2496.925
 0.25000   -5.354020  -228.905775  -54.101061
-85.189484  -219.864677   -2252.350
 0.50000   -5.354020  -228.896507  -54.101061
-85.200531  -152.520844   -2012.815
 0.75000   -5.354020  -228.887502  -54.101061
-85.225187   -85.214751   -1793.233
 1.00000   -5.354020  -228.878935  -54.101061
-85.245156   -23.834718   -1595.257

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    9.359071   59.557319   22.076609
444.123167  117.867726  621.966253
 0.25000    9.359071   59.561666   22.076609
444.103381   90.739533  603.821332
 0.50000    9.359071   59.566697   22.076609
444.084338   63.779867  592.628412
 0.75000    9.359071   59.572296   22.076609
444.066352   37.926393  607.396171
 1.00000    9.359071   59.578333   22.076609
444.049827   21.241580  668.438739
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                       760

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -9.980064  -325.114190   -48.253454
-223.893231  -252.388415   -3744.863
 0.25000   -9.980064  -325.104796   -48.253454
-223.904982  -192.651613   -3425.577
 0.50000   -9.980064  -325.095528   -48.253454
-223.922035  -133.402850   -3115.569
 0.75000   -9.980064  -325.086523   -48.253454
-223.940698   -75.527544   -2829.052
 1.00000   -9.980064  -325.077956   -48.253454
-223.960673   -27.206049   -2572.961

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.561651   66.974638   32.222171
662.881127  143.670718  900.478613
 0.25000   16.561651   77.140476   32.222171
628.625234  106.816702  899.097805
 0.50000   16.561651   89.029986   32.222171
619.971839   72.181312  967.425755
 0.75000   16.561651  102.317812   32.222171
617.027379   42.864666   1056.486
 1.00000   16.561651  116.585171   32.222171
616.596357   24.429089   1178.379

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -21.639725  -775.589209   -62.501271
-589.699725  -347.620772   -6914.021
 0.25000  -21.639725  -749.476643   -62.501271
-593.438060  -271.110717   -6175.352
 0.50000  -21.639725  -723.609508   -62.501271
-599.864832  -197.117426   -5485.614
 0.75000  -21.639725  -698.424147   -62.501271
-609.063050  -130.000010   -4850.744
 1.00000  -21.639725  -674.345652   -62.501271
-644.045275   -79.947211   -4305.385

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   17.166536   91.977251   34.325590
789.781774  167.209984  920.372352
 0.25000   17.166536  100.446128   34.325590
761.244142  129.931737  916.996093
 0.50000   17.166536  110.350115   34.325590
754.035240   95.786181   975.150777
 0.75000   17.166536  121.420667   34.325590
751.582292   69.510948   1053.333
 1.00000   17.166536  133.306409   34.325590
751.223220   54.883447   1163.298

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -21.120214  -689.645218   -58.851539
-630.548922  -305.610131   -6205.363
 0.25000  -21.120214  -667.891566   -58.851539
-633.663225  -235.129135   -5577.305
 0.50000  -21.120214  -646.342375   -58.851539
-639.017190  -168.299153   -4993.843
 0.75000  -21.120214  -625.361151   -58.851539
-646.679969  -110.616568   -4459.810
 1.00000  -21.120214  -605.302027   -58.851539
-675.822688   -71.364750   -4005.685

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.313519   54.031351    4.607188
376.020930   33.185846  253.483076
 0.25000    6.313519   54.035701    4.607188
376.001118   33.829563  251.717700
 0.50000    6.313519   54.040735    4.607188
375.982049   36.887840  255.471334
 0.75000    6.313519   54.046337    4.607188
375.964039   45.714978  265.198008
 1.00000    6.313519   54.052378    4.607188
375.947490   57.144546  282.257758
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                       761

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.194088   -64.019999   -15.272642
-216.392216   -35.386617   -603.649587
 0.25000   -5.194088   -64.010604   -15.272642
-216.394064   -21.292207   -586.198131
 0.50000   -5.194088   -64.001335   -15.272642
-216.411135   -11.375975   -576.155123
 0.75000   -5.194088   -63.992330   -15.272642
-216.429818    -7.697021   -574.046630
 1.00000   -5.194088   -63.983761   -15.272642
-216.449815    -7.284635   -580.992261

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    9.469205   97.948580   36.239952
612.810272  204.507847  492.690519
 0.25000    9.469205   97.952893   36.239952
612.790526  165.667639  481.762580
 0.50000    9.469205   97.957919   36.239952
612.771529  129.401191  480.012666
 0.75000    9.469205   97.963513   36.239952
612.753584  100.357620  487.755961
 1.00000    9.469205   97.969544   36.239952
612.737099   83.774265  509.571612

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.995936  -137.894138   -20.536748
-358.986057   -57.241335   -1508.924
 0.25000  -12.995936  -137.884746   -20.536748
-358.997647   -35.840038   -1439.705
 0.50000  -12.995936  -137.875479   -20.536748
-359.014668   -18.717268   -1386.603
 0.75000  -12.995936  -137.866476   -20.536748
-359.033298   -11.112488   -1352.463
 1.00000  -12.995936  -137.857909   -20.536748
-359.053238   -15.122400   -1335.562

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.562379   104.028007   25.400648
719.943804  147.945086  721.918651
 0.25000   10.562379   104.074917   25.400648
719.730492  121.959122  706.356547
 0.50000   10.562379   104.129211   25.400648
719.525193   98.308831  699.940768
 0.75000   10.562379   104.189637   25.400648
719.331302   81.185518   710.172072
 1.00000   10.562379   104.254785   25.400648
719.153178   75.669181   746.010629

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.205057  -275.924895   -37.444270
-388.838836  -153.703761   -3188.662
 0.25000  -12.205057  -275.823459   -37.444270
-388.964352  -110.716315   -2970.440
 0.50000  -12.205057  -275.723376   -37.444270
-389.148254   -71.550517   -2764.004
 0.75000  -12.205057  -275.626137   -37.444270
-389.349530   -40.885309   -2577.830
 1.00000  -12.205057  -275.533615   -37.444270
-389.564952   -21.329775   -2421.660

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   17.940903  100.646717   27.185456
838.574721  146.335613  878.567548
 0.25000   17.940903  107.209134   27.185456
812.010386  118.332460  878.631600
 0.50000   17.940903  114.850237   27.185456
786.447730   93.299884  916.126016
 0.75000   17.940903  123.356659   27.185456
762.478121   74.663851  973.874682
 1.00000   17.940903  132.506290   27.185456
754.457443   66.254493   1065.027
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                       762

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -18.218712  -562.931283   -67.695569
-524.508995  -333.746272   -5282.083
 0.25000  -18.218712  -547.604869   -67.695569
-527.805027  -253.113714   -4771.772
 0.50000  -18.218712  -532.454288   -67.695569
-544.342397  -176.673889   -4316.652
 0.75000  -18.218712  -517.728080   -67.695569
-570.612983  -108.276724   -3915.485
 1.00000  -18.218712  -503.677063   -67.695569
-598.626982   -55.976999   -3559.992

 COMB     DB ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.195692   89.844858   36.082088
664.078179  161.050683  757.448075
 0.25000   16.195692   89.851088   36.082088
641.191408  128.989262  735.273013
 0.50000   16.195692   96.548644   36.082088
641.191408   97.656759  713.110138
 0.75000   16.195692  107.760477   36.082088
641.191408   67.652630  789.059500
 1.00000   16.195692  123.765234   36.082088
641.191408   50.035329   1049.270

 COMB     DB ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -17.229320  -751.066757   -48.638946
-633.193641  -229.597507   -3577.349
 0.25000  -17.229320  -722.697218   -48.638946
-633.193641  -172.238133   -3049.346
 0.50000  -17.229320  -694.021961   -48.638946
-633.193641  -128.203949   -2761.829
 0.75000  -17.229320  -666.004663   -48.638946
-633.193641   -87.250312   -2612.910
 1.00000  -17.229320  -639.300337   -48.638946
-633.193641   -58.656600   -2466.384

 COMB     DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   22.014629  104.028007   50.688131
838.574721  224.730636  970.424215
 0.25000   22.014629  107.209134   50.688131
812.010386  165.667639  948.141655
 0.50000   22.014629  114.850237   50.688131
799.427743  129.401191   1023.572
 0.75000   22.014629  123.356659   50.688131
799.427743  100.357620   1150.773
 1.00000   22.014629  133.306406   50.688131
799.427743   83.774265   1327.758

 COMB     DL ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -28.082313  -953.044846   -67.695569
-866.028556  -347.620772   -8211.553
 0.25000  -28.082313  -921.841325   -67.695569
-863.686962  -271.110717   -7268.944
 0.50000  -28.082313  -890.818083   -67.695569
-861.292881  -202.025277   -6389.751
 0.75000  -28.082313  -860.516724   -67.695569
-858.895074  -149.608748   -5582.206
 1.00000  -28.082313  -831.455516   -67.695569
-856.499130  -112.518478   -4846.702

 COMB     CAR ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   22.014629  104.028007   50.688131
838.574721  224.730636  970.424215
 0.25000   22.014629  107.209134   50.688131
812.010386  165.667639  948.141655
 0.50000   22.014629  114.850237   50.688131
799.427743  129.401191   1023.572
 0.75000   22.014629  123.356659   50.688131
799.427743  100.357620   1150.773
 1.00000   22.014629  133.306406   50.688131
799.427743   83.774265   1327.758
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                       763

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -28.082313  -953.044846   -67.695569
-866.028556  -347.620772   -8211.553
 0.25000  -28.082313  -921.841325   -67.695569
-863.686962  -271.110717   -7268.944
 0.50000  -28.082313  -890.818083   -67.695569
-861.292881  -202.025277   -6389.751
 0.75000  -28.082313  -860.516724   -67.695569
-858.895074  -149.608748   -5582.206
 1.00000  -28.082313  -831.455516   -67.695569
-856.499130  -112.518478   -4846.702

 COMB  DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   22.014629  104.028007   50.688131
838.574721  224.730636  970.424215
 0.25000   22.014629  107.209134   50.688131
812.010386  165.667639  948.141655
 0.50000   22.014629  114.850237   50.688131
799.427743  129.401191   1023.572
 0.75000   22.014629  123.356659   50.688131
799.427743  100.357620   1150.773
 1.00000   22.014629  133.306406   50.688131
799.427743   83.774265   1327.758

 COMB  DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -28.082313  -953.044846   -67.695569
-866.028556  -347.620772   -8211.553
 0.25000  -28.082313  -921.841325   -67.695569
-863.686962  -271.110717   -7268.944
 0.50000  -28.082313  -890.818083   -67.695569
-861.292881  -202.025277   -6389.751
 0.75000  -28.082313  -860.516724   -67.695569
-858.895074  -149.608748   -5582.206
 1.00000  -28.082313  -831.455516   -67.695569
-856.499130  -112.518478   -4846.702

 ELEM      44 ================== LENGTH
=    4.987797

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.903378   38.628449    3.918322
151.836666   9.574685  623.369524
 0.25000    5.903378   56.836564    3.918322
151.836666   11.645805  864.754155
 0.50000    5.903378   76.784640    3.918322
151.836666   15.445410   1080.725
 0.75000    5.903378   98.329646    3.918322
151.836666   20.336818   1269.324
 1.00000    5.903378  121.395236    3.918322
151.836666   26.340644   1433.149

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.979052  -423.439090   -6.698154
-580.043065  -39.322860   -1284.814
 0.25000  -11.979052  -399.841459   -6.698154
-580.043065  -39.325683   -1201.060
 0.50000  -11.979052  -375.700782   -6.698154
-580.043065  -42.747718   -1117.502
 0.75000  -11.979052  -352.492613   -6.698154
-580.043065  -46.239974   -1034.269
 1.00000  -11.979052  -330.725572   -6.698154
-580.043065  -49.846803   -951.123558

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   15.842243   57.160917    3.389626
269.925310  11.231063  964.855766
 0.25000   15.842243   80.256110    3.389626
269.925310   24.046083   1285.061
 0.50000   15.842243  105.499100    3.389626
269.925310   39.937608   1608.301
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                       764

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000   15.842243  132.847975    3.389626
269.925310   56.942329   1926.597
 1.00000   15.842243  162.603772    3.389626
269.925310   74.983762   2235.740

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.357775  -627.408081   -16.418166
-682.945461   -56.533327   -2097.367
 0.25000  -15.357775  -597.064149   -16.418166
-682.945461   -52.945146   -1978.513
 0.50000  -15.357775  -566.877917   -16.418166
-682.945461   -54.072810   -1860.038
 0.75000  -15.357775  -537.806257   -16.418166
-682.945461   -56.239002   -1741.784
 1.00000  -15.357775  -510.458862   -16.418166
-682.945461   -59.016218   -1623.703

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.034082   55.695461    3.374897
415.325129  14.209412   1050.609
 0.25000   12.034082   76.912735    3.374897
415.325129   22.792536   1326.487
 0.50000   12.034082  100.098806    3.374897
415.325129   33.767204   1654.095
 0.75000   12.034082  125.228855    3.374897
415.325129   46.250882   2027.677
 1.00000   12.034082  152.598850    3.374897
415.325129   61.770009   2397.774

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.342917  -663.024476   -14.252665
-629.090835   -53.886875   -2467.328
 0.25000  -15.342917  -635.116965   -14.252665
-629.090835   -50.483750   -2354.121
 0.50000  -15.342917  -607.417189   -14.252665
-629.090835   -51.214433   -2241.267
 0.75000  -15.342917  -580.736333   -14.252665
-629.090835   -52.602927   -2128.789
 1.00000  -15.342917  -555.633730   -14.252665
-629.090835   -54.315096   -2016.550

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.819820   59.675944    7.715467
529.773255  28.957370   1012.710
 0.25000   11.819820   77.365886    7.715467
529.773255   34.148417   1240.096
 0.50000   11.819820   96.697187    7.715467
529.773255   41.565650   1511.997
 0.75000   11.819820  117.646109    7.715467
529.773255   50.597117   1829.990
 1.00000   11.819820  140.470345    7.715467
529.773255   62.788946   2187.323

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -18.235931  -599.318582   -12.339648
-577.513600   -50.342021   -2273.376
 0.25000  -18.235931  -576.049740   -12.339648
-577.513600   -52.930135   -2273.682
 0.50000  -18.235931  -552.955948   -12.339648
-577.513600   -59.144812   -2190.730
 0.75000  -18.235931  -530.711533   -12.339648
-577.513600   -65.995166   -2108.458
 1.00000  -18.235931  -509.782817   -12.339648
-577.513600   -73.246721   -2026.748

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.546496   10.379560    0.713892
165.970821   1.901238  296.019920
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                       765

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000   10.546496   10.390221    0.713892
165.928688   11.163788  316.669088
 0.50000   10.546496   10.401766    0.713892
165.892211   21.894309  419.381361
 0.75000   10.546496   10.414425    0.713892
165.864180   32.762052  557.631099
 1.00000   10.546496   10.429078    0.713892
165.855046   43.739600  725.158969

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.184249  -164.682876    -8.843005
```

```
-58.122601   -12.832243  -843.408135
 0.25000     -3.184249  -164.668130     -8.843005
-58.138745    -9.388648  -815.772570
 0.50000     -3.184249  -164.654979     -8.843005
-58.173722    -6.672692  -788.220061
 0.75000     -3.184249  -164.642224     -8.843005
-58.212313    -5.225269  -760.671154
 1.00000     -3.184249  -164.630119     -8.843005
-58.257366    -4.904996  -733.205939

  COMB DB-G2-2 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    7.729301    18.903085    4.292718
377.338637   12.712574   489.862099
 0.25000    7.729301    18.913746    4.292718
377.296504   16.587518   501.788359
 0.50000    7.729301    18.925291    4.292718
377.260027   21.916966   608.755817
 0.75000    7.729301    18.937950    4.292718
377.231996   28.195633   812.036952
 1.00000    7.729301    18.952603    4.292718
377.222862   37.664205    1065.287

  COMB DB-G2-2 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -8.137603  -251.476422   -7.714336
-92.702882   -17.461448   -1382.263
 0.25000   -8.137603  -251.461676   -7.714336
-92.719026   -13.234895   -1356.671
 0.50000   -8.137603  -251.448524   -7.714336
-92.754003   -19.519456   -1331.241
 0.75000   -8.137603  -251.435770   -7.714336
-92.792594   -21.586250   -1306.144
 1.00000   -8.137603  -251.423664   -7.714336
-92.837647   -24.381260   -1281.323

  COMB DB-G2-3 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    9.984735    51.308838    4.618399
429.274161   19.497527   920.835734
 0.25000    9.984735    69.443651    4.618399
429.274161   24.626521    1129.720
 0.50000    9.984735    89.176193    4.618399
429.274161   35.564431    1392.976
 0.75000    9.984735   110.683762    4.618399
429.274161   47.495156    1709.073
 1.00000    9.984735   134.828734    4.618399
429.274161   62.618715    2040.246

  COMB DB-G2-3 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -14.137148  -566.701757   -12.869099
-401.420998   -43.348207    -2217.132
 0.25000   -14.137148  -542.244627   -12.869099
-401.420998   -41.646492    -2135.670
 0.50000   -14.137148  -519.202795   -12.869099
-401.420998   -43.547365    -2054.491
 0.75000   -14.137148  -496.936105   -12.869099
-423.156653   -46.063197    -1973.622
 1.00000   -14.137148  -475.898926   -12.869099
-456.364973   -49.811401    -1893.105
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD                >
                                766

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DB-G2-4 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   10.337001    57.850885    6.838486
546.094994   32.819327   900.114188
 0.25000   10.337001    72.956019    6.838486
546.094994   39.508588    1072.684
 0.50000   10.337001    89.391959    6.838486
546.094994   47.391338    1290.415
 0.75000   10.337001   107.306382    6.838486
546.094994   56.178639    1555.721
 1.00000   10.337001   127.417006    6.838486
546.094994   67.535084    1873.089

  COMB DB-G2-4 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -13.492351  -511.455557   -11.166338
-398.315532   -41.235612    -2105.247
 0.25000  -13.492351  -491.084338   -11.166338
-398.315532   -41.902981    -2051.442
 0.50000  -13.492351  -471.891973   -11.166338
-398.315532   -46.724090    -1998.384
 0.75000  -13.492351  -453.345251   -11.166338
-416.419937   -52.197608    -1945.996
 1.00000  -13.492351  -435.822632   -11.166338
-444.080334   -58.281207    -1894.237

  COMB DB-G3-1 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    3.229027    24.608533    4.149709
290.623068   33.133144   199.506817
 0.25000    3.229027    24.619199    4.149709
290.580864   32.190458   197.866136
 0.50000    3.229027    24.630750    4.149709
290.544330   31.273767   196.241608
 0.75000    3.229027    24.643416    4.149709
290.515971   30.423855   210.930882
 1.00000    3.229027    24.658078    4.149709
290.506433   29.600497   259.636741

  COMB DB-G3-1 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -3.640945   -55.392022   -0.760015
-105.629105    -5.670472   -363.865352
 0.25000   -3.640945   -55.377266   -0.760015
-105.645465    -8.294265   -387.602794
 0.50000   -3.640945   -55.364109   -0.760015
-105.680859   -11.621841   -411.903324
 0.75000   -3.640945   -55.351350   -0.760015
-105.719507   -15.441445   -436.973026
 1.00000   -3.640945   -55.339239   -0.760015
-105.764636   -19.649651   -462.507308

  COMB DB-G3-2 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    5.211170    37.920982   11.018646
496.431162   48.810119   371.967774
 0.25000    5.211170    37.931644   11.018646
496.389029   45.348991   368.132559
 0.50000    5.211170    37.943188   11.018646
496.352552   42.412290   364.989305
 0.75000    5.211170    37.955848   11.018646
496.324201   40.889058   401.954272
 1.00000    5.211170    37.970500   11.018646
496.315387   40.346737   530.377251

  COMB DB-G3-2 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -11.380289  -124.144729   -1.516111
-155.790425   -13.685152   -790.186702
 0.25000  -11.380289  -124.129983   -1.516111
-155.806569   -23.742272   -820.487783
 0.50000  -11.380289  -124.116832   -1.516111
-155.841546   -35.060806   -851.767756
 0.75000  -11.380289  -124.104077   -1.516111
-155.880137   -47.086682   -884.110588
 1.00000  -11.380289  -124.091971   -1.516111
-155.925190   -59.627714   -917.233191

Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD                >
                                767

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DB-G3-3 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    5.820524    36.469308    7.908145
596.263788   44.238653   534.620787
 0.25000    5.820524    36.478903    7.908145
596.225869   42.738624   526.117830
 0.50000    5.820524    36.489294    7.908145
596.193039   41.525581   592.829339
 0.75000    5.820524    36.500687    7.908145
596.167811   40.872530   734.145182
 1.00000    5.820524    36.513874    7.908145
596.159591   43.259116   966.024091

  COMB DB-G3-3 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -9.484747  -227.674085   -3.715047
-154.846107   -15.942472    -1388.859
 0.25000   -9.484747  -227.660814   -3.715047
-154.860636   -20.163841    -1380.578
 0.50000   -9.484747  -227.648978   -3.715047
-154.892116   -26.363136    -1393.077
 0.75000   -9.484747  -227.637499   -3.715047
-154.926847   -32.535768    -1406.684
 1.00000   -9.484747  -227.626603   -3.715047
-154.967396   -40.489745    -1420.980

  COMB DB-G3-4 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   11.948262    54.977188    7.146350
615.507894   58.497934   807.140485
 0.25000   11.948262    65.725809    7.146350
590.541253   45.339987   925.460197
 0.50000   11.948262    77.391681    7.146350
575.779188   53.410965    1096.787
 0.75000   11.948262    90.146231    7.146350
575.779188   62.143688    1325.917
 1.00000   11.948262   104.694799    7.146350
575.779188   73.263756    1621.918

  COMB DB-G3-4 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -12.083839  -428.324520   -10.584495
-301.925610   -32.740118    -1896.248
 0.25000  -12.083839  -413.637664   -10.584495
-301.925610   -33.943070    -1866.129
 0.50000  -12.083839  -400.187040   -10.584495
-322.959794   -37.887601    -1836.661
 0.75000  -12.083839  -387.161449   -10.584495
-348.488097   -42.816556    -1808.101
 1.00000  -12.083839  -374.833313   -10.584495
-372.846208   -48.656649    -1780.206

  COMB DL-G1-1 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   11.263513    42.527257    5.837126
199.281307   10.101999   740.610249
 0.25000   11.263513    54.267101    5.837126
199.281307   11.254149   872.949575
 0.50000   11.263513    67.436024    5.837126
199.281307   13.122281    1008.540
 0.75000   11.263513    81.643661    5.837126
199.281307   20.621638    1146.554
 1.00000   11.263513    96.407348    5.837126
199.281307   26.999078    1283.224

  COMB DL-G1-1 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -22.076160  -487.059654   -8.021808
-773.395675   -77.195709    -2596.740
 0.25000  -22.076160  -461.610078   -8.021808
-764.787890   -76.478214    -2235.046
 0.50000  -22.076160  -436.501595   -8.021808
-756.180105   -78.840768    -1913.730
 0.75000  -22.076160  -412.199351   -8.021808
-747.572320   -82.134940    -1629.660
 1.00000  -22.076160  -389.095607   -8.021808
-738.964535   -86.145260    -1382.869
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD                >
                                768

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G1-2 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   21.773778    65.040192    5.764102
327.950821   12.949746    1177.916
 0.25000   21.773778    79.702468    5.764102
327.950821   23.262211    1350.134
 0.50000   21.773778    96.161722    5.764102
327.950821   40.297732    1554.481
 0.75000   21.773778   113.939071    5.764102
327.950821   60.247962    1793.110
 1.00000   21.773778   132.461289    5.764102
327.950821   82.073370    2052.944

  COMB DL-G1-2 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -28.716783  -730.472856   -21.995856
-902.679076  -109.805317    -4178.891
 0.25000  -28.716783  -699.714557   -21.995856
-899.366077  -100.070474    -3617.736
 0.50000  -28.716783  -669.398362   -21.995856
-896.052974   -97.411865    -3122.087
 0.75000  -28.716783  -640.109925   -21.995856
-892.740080   -97.506486    -2688.205
 1.00000  -28.716783  -612.282312   -21.995856
-889.427081   -99.334947    -2317.226

  COMB DL-G1-3 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   19.190105    66.222499    6.246748
507.951845   19.141312    1328.290
 0.25000   19.190105    79.720934    6.246748
507.951845   24.910496    1502.270
 0.50000   19.190105    94.872343    6.246748
507.951845   37.666907    1739.369
 0.75000   19.190105   111.238830    6.246748
507.951845   54.344277    2028.346
 1.00000   19.190105   128.298998    6.246748
507.951845   73.298315    2356.818

  COMB DL-G1-3 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -28.145122  -787.636090   -19.336520
-830.583123  -101.846304    -4845.823
 0.25000  -28.145122  -759.409572   -19.336520
-828.187145   -92.231058    -4228.105
 0.50000  -28.145122  -731.604763   -19.336520
-825.790638   -90.018805    -3687.291
 0.75000  -28.145122  -704.732344   -19.336520
-823.395189   -91.131780    -3222.766
 1.00000  -28.145122  -679.204532   -19.336520
-820.999211   -93.580090    -2839.798

  COMB DL-G1-4 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   18.827258    70.948574   11.971842
659.552705   44.769209    1283.275
 0.25000   18.827258    82.200134   11.971842
659.552705   45.721246    1441.197
 0.50000   18.827258    94.829522   11.971842
659.552705   53.518309    1661.681
 0.75000   18.827258   108.471734   11.971842
659.552705   65.613977    1940.000
 1.00000   18.827258   122.692159   11.971842
659.552705   80.219982    2270.848

  COMB DL-G1-4 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -29.031166  -714.651388   -16.850952
-756.119136   -90.067532    -4527.337
 0.25000  -29.031166  -691.123302   -16.850952
-754.121980   -86.244379    -3979.343
 0.50000  -29.031166  -667.946729   -16.850952
-752.124382   -89.693277    -3509.125
 0.75000  -29.031166  -645.547345   -16.850952
-750.127666   -96.909638    -3119.527
 1.00000  -29.031166  -624.268752   -16.850952
-748.130509  -105.700692    -2809.893
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD                >
                                769

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G2-1 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   10.261521    14.476378    1.009132
170.371143   3.2116036   397.822844
 0.25000   10.261521    14.481396    1.009132
170.353164   11.277403   427.012220
 0.50000   10.261521    14.487017    1.009132
170.335962   24.057661   497.552004
 0.75000   10.261521    14.493138    1.009132
170.319905   38.559212   609.677011
 1.00000   10.261521    14.499612    1.009132
170.305394   53.943280   750.126567

  COMB DL-G2-1 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -5.667881  -212.347037   -13.563854
-68.453158   -23.738360    -1595.499
 0.25000   -5.667881  -212.338025   -13.563854
-68.469369   -15.060588    -1404.850
 0.50000   -5.667881  -212.329225   -13.563854
-68.487332   -10.860381    -1239.724
 0.75000   -5.667881  -212.320775   -13.563854
-68.506735    -8.889261    -1101.339
 1.00000   -5.667881  -212.312833   -13.563854
-68.527205    -8.208255   -990.666434

  COMB DL-G2-2 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    9.555182    26.871158    6.028489
441.390082   20.862730   668.051586
 0.25000    9.555182    26.876177    6.028489
441.372094   21.867672   709.346617
 0.50000    9.555182    26.881799    6.028489
441.354882   28.308891   823.621732
 0.75000    9.555182    26.887921    6.028489
441.338817   38.045806    1003.042
 1.00000    9.555182    26.894395    6.028489
441.324298   49.816758    1237.791

  COMB DL-G2-2 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -10.725310  -326.179204   -11.290839
-110.457824   -26.248611    -2573.713
 0.25000  -10.725310  -326.170192   -11.290839
-110.474041   -20.863947    -2290.728
 0.50000  -10.725310  -326.161392   -11.290839
-110.492010   -20.654420    -2050.717
 0.75000  -10.725310  -326.152941   -11.290839
-110.511420   -23.744019    -1859.796
 1.00000  -10.725310  -326.144999   -11.290839
-110.531897   -27.887552    -1722.748

  COMB DL-G2-3 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   16.678335    59.947746    6.976227
535.136412   23.775568    1178.480
 0.25000   16.678335    72.520734    6.976227
515.228853   28.876549    1327.204
 0.50000   16.678335    86.646697    6.976227
513.657848   40.698870    1536.075
 0.75000   16.678335   101.908897    6.976227
513.626732   56.367828    1792.432
 1.00000   16.678335   118.006664    6.976227
513.611878   74.591613    2089.724

  COMB DL-G2-3 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -22.673435  -675.139615   -18.545079
-509.180880   -77.663471    -4803.769
 0.25000  -22.673435  -650.824951   -18.545079
-517.255081   -67.706085    -3799.654
 0.50000  -22.673435  -626.973556   -18.545079
-527.826925   -65.403708    -3371.570
 0.75000  -22.673435  -604.015321   -18.545079
-561.660733   -66.921328    -3011.654
 1.00000  -22.673435  -582.311425   -18.545079
-598.305471   -70.359960    -2652.399
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD                >
                                770

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G2-4 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   16.875365    68.795748   10.087366
696.562873   54.332987    1163.024
 0.25000   16.875365    79.269554   10.087366
679.978439   55.840636    1301.402
 0.50000   16.875365    91.037901   10.087366
678.669679   63.447884    1499.564
 0.75000   16.875365   103.752415   10.087366
678.643757   74.947993    1749.679
 1.00000   16.875365   117.163017   10.087366
678.631382   88.736951    2050.975

  COMB DL-G2-4 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -21.793861  -613.789892   -16.064152
-504.381223   -69.243065    -4006.289
 0.25000  -21.793861  -593.534855   -16.064152
-511.107615   -63.217813    -3564.232
 0.50000  -21.793861  -573.664921   -16.064152
-519.914724   -64.112031    -3204.022
 0.75000  -21.793861  -554.539054   -16.064152
-548.100728   -68.978563    -2914.162
 1.00000  -21.793861  -536.458142   -16.064152
-578.628440   -75.371696    -2632.166

  COMB DL-G3-1 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    5.542176    31.014666    4.841276
387.111005   57.002399   281.619441
 0.25000    5.542176    31.019687    4.841276
387.092990   54.646408   305.297261
 0.50000    5.542176    31.025311    4.841276
387.075752   52.910254   343.141036
 0.75000    5.542176    31.031436    4.841276
387.059661   52.273868   399.785935
 1.00000    5.542176    31.037913    4.841276
387.045118   51.962084   474.616420

  COMB DL-G3-1 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -4.516148   -72.199405   -1.351209
-134.170079    -7.135474   -581.313603
 0.25000   -4.516148   -72.190391   -1.351209
-134.186313    -8.867231   -564.120560
 0.50000   -4.516148   -72.181899   -1.351209
-134.204300   -11.512213   -570.982548
 0.75000   -4.516148   -72.173136   -1.351209
-134.223730   -15.509349   -594.259089
 1.00000   -4.516148   -72.165193   -1.351209
-134.244229   -19.894239   -623.333740

  COMB DL-G3-2 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    8.499620    46.646001   14.284176
654.801021   84.184015   508.660908
 0.25000    8.499620    46.651017   14.284176
654.783079   76.956803   547.690449
 0.50000    8.499620    46.656634   14.284176
654.765911   72.052497   614.249990
 0.75000    8.499620    46.662752   14.284176
654.749888   69.933983   724.665218
 1.00000    8.499620    46.669221   14.284176
654.735410   69.027376   877.318073

  COMB DL-G3-2 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -12.474886  -159.757212   -2.321216
-194.248963    -14.733698    -1336.268
 0.25000  -12.474886  -159.748203   -2.321216
-194.265153   -22.399880    -1259.195
 0.50000  -12.474886  -159.739405   -2.321216
-194.283090   -32.816948    -1223.546
 0.75000  -12.474886  -159.730957   -2.321216
-194.302467   -46.180860    -1223.708
 1.00000  -12.474886  -159.723017   -2.321216
-194.322908   -60.634770    -1249.113
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD                >
                                771

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G3-3 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    9.953729    47.882717   10.819884
748.888334   75.253514   745.052110
 0.25000    9.953729    47.936892   10.819884
748.694457   69.902549   800.997217
 0.50000    9.953729    47.997571   10.819884
748.508951   68.331170   925.802665
 0.75000    9.953729    48.063649   10.819884
748.335808   70.373472    1110.024
 1.00000    9.953729    48.133532   10.819884
748.179355   74.552869    1353.620

  COMB DL-G3-3 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -12.189929  -297.178947   -6.202507
-188.764927   -20.299893    -2422.682
 0.25000  -12.189929  -297.081644   -6.202507
-188.939827   -20.537823    -2209.012
 0.50000  -12.189929  -296.986823   -6.202507
-189.133627   -24.882821    -2052.934
 0.75000  -12.189929  -296.895372   -6.202507
-189.342967   -33.095248    -1950.803
 1.00000  -12.189929  -296.809617   -6.202507
-189.563806   -43.696878    -1895.836

  COMB DL-G3-4 ------------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   17.489927    66.906237    9.942715
781.458321   65.721760    1064.405
 0.25000   17.489927    74.713222    9.942715
758.120755   67.563749    1178.914
 0.50000   17.489927    83.487785    9.942715
735.813829   75.526233    1356.420
 0.75000   17.489927    92.978961    9.942715
717.385543   87.599355    1590.260
 1.00000   17.489927   103.023229    9.942715
716.648085  102.106231    1876.513

  COMB DL-G3-4 ------------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -18.436374  -521.501918   -15.935339
-378.463008   -54.508663    -3560.762
 0.25000  -18.436374  -506.995249   -15.935339
-394.572940   -47.945149    -3196.620
 0.50000  -18.436374  -492.799878   -15.935339
-419.990571   -48.310443    -2906.323
 0.75000  -18.436374  -479.160898   -15.935339
-447.399981   -52.998697    -2666.848
 1.00000  -18.436374  -466.310246   -15.935339
-476.211527   -60.404648    -2488.634

  COMB      DB ------------------ MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   15.842243    59.675944   11.018646
615.507894   48.810119    1050.609
 0.25000   15.842243    80.256110   11.018646
596.225869   45.348991    1326.487
 0.50000   15.842243   105.499100   11.018646
596.193039   53.410965    1654.095
 0.75000   15.842243   132.852473   11.018646
596.167811   62.143688    2027.677
 1.00000   15.842243   162.603772   11.018646
596.159591   74.983762    2397.774

  COMB      DB ------------------ MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -18.235931  -663.024476  -16.418166
-682.945461   -56.533327    -2467.328
 0.25000  -18.235931  -635.116965  -16.418166
-682.945461   -52.945146    -2354.121
 0.50000  -18.235931  -607.417189  -16.418166
-682.945461   -59.144812    -2241.267
 0.75000  -18.235931  -580.736333  -16.418166
-682.945461   -65.995166    -2128.789
 1.00000  -18.235931  -555.633730  -16.418166
-682.945461   -73.246721    -2026.748
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD                >
                                772

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S
```

```
 COMB       DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    21.773778   70.948574   14.284176
781.458321   84.184015  1328.290
 0.25000    21.773778   82.200134   14.284176
758.120755   76.956803  1502.270
 0.50000    21.773778   96.161722   14.284176
748.508951   75.526233  1739.369
 0.75000    21.773778  113.939071   14.284176
748.335808   87.599355  2028.346
 1.00000    21.773778  132.461289   14.284176
748.179355  102.106231  2356.818

 COMB       DL ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -29.031166 -787.636090  -21.995856
-902.679076 -109.805317  -4845.823
 0.25000   -29.031166 -759.409572  -21.995856
-899.366077 -100.070474  -4228.105
 0.50000   -29.031166 -731.604763  -21.995856
-896.052974  -97.411865  -3687.291
 0.75000   -29.031166 -704.732344  -21.995856
-892.740080  -97.506486  -3222.766
 1.00000   -29.031166 -679.204532  -21.995856
-889.427081 -105.700692  -2839.798

 COMB       CAR ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    21.773778   70.948574   14.284176
781.458321   84.184015  1328.290
 0.25000    21.773778   82.200134   14.284176
758.120755   76.956803  1502.270
 0.50000    21.773778  105.499100   14.284176
748.508951   75.526233  1739.369
 0.75000    21.773778  132.847975   14.284176
748.335808   87.599355  2028.346
 1.00000    21.773778  162.603772   14.284176
748.179355  102.106231  2397.774

 COMB       CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -29.031166 -787.636090  -21.995856
-902.679076 -109.805317  -4845.823
 0.25000   -29.031166 -759.409572  -21.995856
-899.366077 -100.070474  -4228.105
 0.50000   -29.031166 -731.604763  -21.995856
-896.052974  -97.411865  -3687.291
 0.75000   -29.031166 -704.732344  -21.995856
-892.740080  -97.506486  -3222.766
 1.00000   -29.031166 -679.204532  -21.995856
-889.427081 -105.700692  -2839.798

 COMB    DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    21.773778   70.948574   14.284176
781.458321   84.184015  1328.290
 0.25000    21.773778   82.200134   14.284176
758.120755   76.956803  1502.270
 0.50000    21.773778  105.499100   14.284176
748.508951   75.526233  1739.369
 0.75000    21.773778  132.847975   14.284176
748.335808   87.599355  2028.346
 1.00000    21.773778  162.603772   14.284176
748.179355  102.106231  2397.774

 COMB    DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -29.031166 -787.636090  -21.995856
-902.679076 -109.805317  -4845.823
 0.25000   -29.031166 -759.409572  -21.995856
-899.366077 -100.070474  -4228.105
 0.50000   -29.031166 -731.604763  -21.995856
-896.052974  -97.411865  -3687.291
 0.75000   -29.031166 -704.732344  -21.995856
-892.740080  -97.506486  -3222.766
 1.00000   -29.031166 -679.204532  -21.995856
-889.427081 -105.700692  -2839.798
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                773

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       45 ========== LENGTH =   4.986834

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.518451   84.597667    0.629704
61.814381   27.260758  1434.860
 0.25000    5.518451  104.169567    0.629704
61.814381   31.728529  1621.691
 0.50000    5.518451  125.677408    0.629704
61.814381   37.215622  1780.873
 0.75000    5.518451  148.673703    0.629704
61.814381   43.642926  1911.788
 1.00000    5.518451  171.778842    0.629704
61.814381   51.106132  2016.935

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -12.502010 -372.682019   -8.249357
-559.420348  -49.854498 -951.613912
 0.25000  -12.502010 -349.155521   -8.249357
-559.420348  -45.954965 -899.267918
 0.50000  -12.502110 -325.158203   -8.249357
-559.420348  -42.063130 -846.975367
 0.75000  -12.502010 -302.160917   -8.249357
-559.420348  -38.177519 -794.683191
 1.00000  -12.502010 -280.683367   -8.249357
-559.420348  -34.293159 -742.482883

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.500902  115.511327    2.659065
147.286351   75.442714  2237.404
 0.25000   15.500902  140.286102    2.659065
147.286351   77.441752  2501.455
 0.50000   15.500902  167.429984    2.659065
147.286351   80.579935  2755.571
 0.75000   15.500902  196.391120    2.659065
147.286351   85.126498  2997.976
 1.00000   15.500902  226.276903    2.659065
147.286351   90.891578  3227.009

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -16.224202 -556.266863  -10.611071
-694.751021  -59.313049  -1624.313
 0.25000  -16.224202 -525.892110  -10.611071
-694.751021  -54.734204  -1542.803
 0.50000  -16.224202 -495.753187  -10.611071
-694.751021  -50.164568  -1461.339
 0.75000  -16.224202 -466.834168  -10.611071
-694.751021  -45.596374  -1379.910
 1.00000  -16.224202 -439.751791  -10.611071
-694.751021  -41.036753  -1298.567

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.899746  106.585789    2.950493
290.308554   63.394203  2398.654
 0.25000   11.899746  129.342373    2.950493
290.308554   65.203664  2711.282
 0.50000   11.899746  154.269062    2.950493
290.308554   68.503961  3020.365
 0.75000   11.899746  180.859487    2.950493
290.308554   73.233152  3326.350
 1.00000   11.899746  208.358715    2.950493
290.308554   79.246677  3622.552

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -16.453902 -591.934649   -9.651982
-609.466831  -54.216563  -2017.028
 0.25000  -16.453902 -563.989485   -9.651982
-609.466831  -49.619080  -1929.561
 0.50000  -16.453902 -536.323858   -9.651982
-609.466831  -45.118724  -1842.133
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                774

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000  -16.453902 -509.774774   -9.651982
-609.466831  -40.953955  -1754.727
 1.00000  -16.453902 -484.908174   -9.651982
-609.466831  -37.171022  -1667.405

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.490165   92.333067    5.354869
415.306721   64.154891  2187.277
 0.25000   11.490165  111.306302    5.354869
415.306721   64.300536  2492.525
 0.50000   11.490165  132.088677    5.354869
415.306721   65.798257  2797.139
 0.75000   11.490165  154.258024    5.354869
415.306721   68.542767  3102.114
 1.00000   11.490165  177.186848    5.354869
415.306721   72.395014  3400.838

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -19.280745 -539.095710   -9.134706
-528.002432  -72.707577  -2026.961
 0.25000  -19.280745 -515.795183   -9.134706
-528.002432  -68.520808  -1913.939
 0.50000  -19.280745 -492.729586   -9.134706
-528.002432  -64.567755  -1881.015
 0.75000  -19.280745 -470.594785   -9.134706
-528.002432  -60.917827  -1808.222
 1.00000  -19.280745 -449.862616   -9.134706
-528.002432  -57.840612  -1735.506

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.646794   15.420826    2.224164
134.969372   18.250015  724.835063
 0.25000   10.646794   15.432175    2.224164
134.928197   40.693886  795.113072
 0.50000   10.646794   15.444456    2.224164
134.893451   38.177261  890.686684
 0.75000   10.646794   15.457441    2.224164
134.870264   35.728025  1017.857
 1.00000   10.646794   15.473300    2.224164
134.848362   33.313871  1169.740

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.521048 -147.262408   -1.377362
-94.119696   -5.068175 -733.250937
 0.25000   -3.521048 -147.247405   -1.377362
-94.152762   -4.847269 -705.732692
 0.50000   -3.521048 -147.234045   -1.377362
-94.188132   -4.629020 -678.219442
 0.75000   -3.521048 -147.221153   -1.377362
-94.225348   -4.415904 -650.713679
 1.00000   -3.521048 -147.208983   -1.377362
-94.268979   -4.217711 -623.251868

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.930839   18.612776    3.784756
333.734922   38.788534  1064.123
 0.25000    7.930839   18.624125    3.784756
333.693746   35.976513  1204.085
 0.50000    7.930839   18.636406    3.784756
333.655001   33.518189  1372.951
 0.75000    7.930839   18.649391    3.784756
333.635814   31.603694  1592.984
 1.00000    7.930839   18.664250    3.784756
333.613912   29.827478  1832.457

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.795254 -229.758777   -2.269439
-81.687281  -23.920059  -1281.235
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                775

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -8.795254 -229.743774   -2.269439
-81.720346  -22.378916  -1244.000
 0.50000   -8.795254 -229.730414   -2.269439
-81.755716  -20.842510  -1206.818
 0.75000   -8.795254 -229.717521   -2.269439
-81.792933  -19.313640  -1169.700
 1.00000   -8.795254 -229.705353   -2.269439
-81.836564  -17.992060  -1132.604

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.890066   81.893195    4.147976
342.733522   64.014959  2040.040
 0.25000    9.890066  101.271820    4.147976
335.106687   62.723002  2328.786
 0.50000    9.890066  122.378002    4.147976
335.106687   62.573736  2615.851
 0.75000    9.890066  144.795847    4.147976
335.106687   63.810728  2902.117
 1.00000    9.890066  169.167718    4.147976
335.106687   66.293110  3181.091

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -15.166932 -512.976095   -7.296325
-374.488013  -49.543624  -1893.337
 0.25000  -15.166932 -488.289796   -7.296325
-374.488013  -45.934052  -1821.089
 0.50000  -15.166932 -465.089467   -7.296325
-380.948828  -42.331528  -1748.889
 0.75000  -15.166932 -442.765339   -7.296325
-414.379364  -38.735854  -1676.743
 1.00000  -15.166932 -421.779924   -7.296325
-444.542001  -35.327473  -1604.632

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.028165   73.365078    6.867264
463.603085   68.282267  1872.118
 0.25000   10.028165   89.506228    6.867264
457.250421   65.636906  2152.030
 0.50000   10.028165  107.086321    6.867264
457.250421   63.927206  2432.860
 0.75000   10.028165  125.758946    6.867264
457.250421   63.363732  2715.136
 1.00000   10.028165  146.059149    6.867264
457.250421   63.821569  2992.404

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -14.416749 -466.422594   -6.352668
-339.747360  -57.703725  -1894.201
 0.25000  -14.416749 -445.860493   -6.352668
-339.747360  -55.828535  -1837.184
 0.50000  -14.416749 -426.536109   -6.352668
-345.128803  -54.359232  -1781.205
 0.75000  -14.416749 -407.941545   -6.352668
-372.974291  -53.407477  -1723.377
 1.00000  -14.416749 -390.462043   -6.352668
-398.097830  -53.100554  -1666.659

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.858585   10.082086    5.704901
274.700272   29.052135  258.428509
 0.25000    2.858585   10.093440    5.704901
274.659023   26.016288  314.375209
 0.50000    2.858585   10.105728    5.704901
274.623961   23.592625  373.562083
 0.75000    2.858585   10.118719    5.704901
274.600733   20.897389  435.298549
 1.00000    2.858585   10.133588    5.704901
274.578483   18.255113  498.736277
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                776

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.292149  -55.408871   -0.289494
-50.672891  -19.131692 -462.126406
 0.25000   -3.292149  -55.393858   -0.289494
-50.706014  -22.139466 -469.029776
 0.50000   -3.292149  -55.380492   -0.289494
-50.741443  -25.750103 -476.324194
 0.75000   -3.292149  -55.367593   -0.289494
-50.778719  -29.881942 -483.656036
 1.00000   -3.292149  -55.355420   -0.289494
-50.822428  -34.558543 -491.194177

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.629467   13.881503    8.580553
468.135775   40.238648  528.333073
 0.25000    4.629467   13.892851    8.580553
468.094599   36.249317  642.723952
 0.50000    4.629467   13.905133    8.580553
468.059854   32.397856  765.230798
 0.75000    4.629467   13.918118    8.580553
468.036667   28.680720  895.309028
 1.00000    4.629467   13.932977    8.580553
468.014765   25.092425  1031.653

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.133388 -121.442590   -2.068301
-67.087483  -58.577309 -916.692117
 0.25000  -11.133388 -121.427587   -2.068301
-67.120548  -59.395292 -918.650613
 0.50000  -11.133388 -121.414227   -2.068301
-67.155918  -60.885574 -921.042769
 0.75000  -11.133388 -121.401333   -2.068301
-67.193135  -63.070313 -923.483689
 1.00000  -11.133388 -121.389165   -2.068301
-67.236766  -66.200547 -926.238334

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.518890   17.167787    8.163504
550.718867   43.919384  963.746557
 0.25000    5.518890   17.178001    8.163504
550.681809   39.788974  1135.567
 0.50000    5.518890   17.189054    8.163504
550.650538   36.034929  1330.349
 0.75000    5.518890   17.200741    8.163504
550.629670   32.608326  1546.424
 1.00000    5.518890   17.214114    8.163504
550.609958   29.423365  1778.032

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.602265 -214.301645   -1.444776
-72.294925  -39.448997  -1420.482
 0.25000   -9.602265 -214.288143   -1.444776
-72.324683  -41.056752  -1402.839
 0.50000   -9.602265 -214.276118   -1.444776
-72.356517  -43.284081  -1385.550
 0.75000   -9.602265 -214.264514   -1.444776
-72.390011  -46.169293  -1368.296
 1.00000   -9.602265 -214.253563   -1.444776
-72.429279  -49.865693  -1351.360

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.815791   57.881141    8.441841
553.755367   73.574603  1620.335
 0.25000   11.815791   69.344322    8.441841
532.349886   68.815493  1866.785
 0.50000   11.815791   81.787506    8.441841
511.958046   65.012578  2123.155
 0.75000   11.815791   94.972656    8.441841
502.791593   61.924040  2389.866
 1.00000   11.815791  109.693840    8.441841
502.791593   59.774371  2659.743
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                777

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -12.512374 -394.329319   -4.461362
-238.993906  -47.991096  -1779.975
 0.25000  -12.512374 -379.443309   -4.461362
-249.345967  -48.162465  -1736.290
 0.50000  -12.512374 -365.838369   -4.461362
-274.552476  -48.850163  -1692.899
 0.75000  -12.512374 -352.727730   -4.461362
-298.470542  -50.087293  -1649.553
 1.00000  -12.512374 -340.378337   -4.461362
-329.796042  -51.999586  -1606.470

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.757288   69.597504    0.833145
82.173628   28.506093  1284.799
 0.25000   10.757288   83.203450    0.833145
82.173628   31.927365  1459.962
 0.50000   10.757288   98.240838    0.833145
82.173628   36.844467  1635.321
 0.75000   10.757288  114.270024    0.833145
82.173628   43.312022  1807.662
 1.00000   10.757288  130.901895    0.833145
82.173628   50.800667  1956.791

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -22.598416 -389.019252  -12.227213
-695.044806  -85.749831  -1381.900
 0.25000  -22.598416 -365.412566  -12.227213
-686.438684  -75.923533  -1219.327
 0.50000  -22.598416 -342.136751  -12.227213
-677.832561  -66.962716  -1103.588
 0.75000  -22.598416 -319.662243  -12.227213
-669.226439  -58.786178  -1028.907
 1.00000  -22.598416 -298.448235  -12.227213
-660.620317  -51.261642  -963.156059

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.377609   99.744695    3.017812
172.113438   83.603512  2054.662
 0.25000   21.377609  116.562240    3.017812
172.113438   85.598472  2317.295
 0.50000   21.377609  135.165233    3.017812
172.113438   89.181120  2608.321
 0.75000   21.377609  155.020510    3.017812
172.113438   94.410604  2922.315
 1.00000   21.377609  175.683497    3.017812
172.113438  101.022404  3211.497

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -29.430376 -594.004846  -15.077710
-839.182155  -99.283060  -2316.163
 0.25000  -29.430376 -565.241323  -15.077710
-835.869797  -87.934066  -2066.446
 0.50000  -29.430376 -536.945387  -15.077710
-832.557438  -77.605372  -1899.060
 0.75000  -29.430376 -509.689312  -15.077710
-829.245079  -68.202430  -1787.349
 1.00000  -29.430376 -483.967396  -15.077710
-825.932721  -59.577322  -1685.014

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   18.998854   93.758915    3.849695
340.312882   75.208688  2357.610
 0.25000   18.998854  109.223070    3.849695
340.312882   76.031196  2691.576
 0.50000   18.998854  126.332557    3.849695
340.312882   78.482982  3065.761
 0.75000   18.998854  144.596378    3.849695
340.312882   82.707375  3454.040
 1.00000   18.998854  163.607608    3.849695
340.312882   88.452879  3828.808
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD          >
                                778

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -29.257970 -656.022367  -13.867708
-744.029441  -92.934358  -2838.912
 0.25000  -29.257970 -629.607050  -13.867708
-741.633926  -82.333680  -2585.287
 0.50000  -29.257970 -603.627180  -13.867708
-739.238411  -72.746417  -2417.544
 0.75000  -29.257970 -578.598274  -13.867708
-736.842895  -64.237432  -2298.693
 1.00000  -29.257970 -554.999328  -13.867708
-734.447380  -56.970144  -2188.330

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   18.368552   83.035481    6.827209
501.905497   81.613828   2270.471
 0.25000   18.368552   95.925558    6.827209
501.905497   79.629900   2605.992
 0.50000   18.368552  110.187093    6.827209
501.905497   79.326640   2976.217
 0.75000   18.368552  125.410818    6.827209
501.905497   80.716075   3362.029
 1.00000   18.368552  141.257544    6.827209
501.905497   83.560440   3730.455

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -29.985847 -604.734585  -12.503768
-644.060584 -104.171803  -2808.931
 0.25000  -29.985847 -582.716217  -12.503768
-642.063813  -95.470559  -2596.342
 0.50000  -29.985847 -561.060814  -12.503768
-640.067042  -87.896670  -2455.416
 0.75000  -29.985847 -540.196082  -12.503768
-638.070271  -81.595751  -2355.273
 1.00000  -29.985847 -520.527287  -12.503768
-636.073500  -76.702955  -2262.209

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.463373   17.218784    2.395359
136.015924   53.853427  749.882864
 0.25000   10.463373   17.224266    2.395359
135.998558   51.657980  842.509455
 0.50000   10.463373   17.230360    2.395359
135.981963   49.548030  972.742631
 0.75000   10.463373   17.236907    2.395359
135.966591   47.508931  1128.397
 1.00000   10.463373   17.243797    2.395359
135.952836   45.529724  1287.778

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.931708 -181.444716   -1.668777
-87.985552   -8.473442  -990.715325
 0.25000   -5.931708 -181.435951   -1.668777
-88.002094   -7.727874  -915.459473
 0.50000   -5.931708 -181.427427   -1.668777
-88.020339   -7.067042  -872.541277
 0.75000   -5.931708 -181.419288   -1.668777
-88.039916   -6.477704  -838.237928
 1.00000   -5.931708 -181.411698   -1.668777
-88.060410   -5.949908  -804.010073

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.698158   22.147896    4.421872
378.602429   50.310043  1236.501
 0.25000    9.698158   22.153379    4.421872
378.585054   46.688035  1425.630
```

```
 0.50000      9.698158     22.159474      4.421872
378.568450     43.466685      1661.988
 0.75000      9.698158     22.166021      4.421872
378.553070     40.667726      1922.259
 1.00000      9.698158     22.172913      4.421872
378.539307     38.396110      2189.680
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD              >
                                779

 F R A M E   E L E M E N T   I N T E R N A
L  F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.434976 -292.068218    -2.533686
-81.873299    -26.932140    -1722.764
 0.25000   -11.434976 -292.059453    -2.533686
-81.889847    -25.376218    -1630.694
 0.50000   -11.434976 -292.050928    -2.533686
-81.908099    -24.118945    -1576.464
 0.75000   -11.434976 -292.042788    -2.533686
-81.927683    -23.135552    -1528.915
 1.00000   -11.434976 -292.035198    -2.533686
-81.948184    -22.791780    -1481.446

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    16.619806    73.712115     4.917836
418.118488    75.973642    2089.513
 0.25000    16.619806    87.764710     4.917836
391.729841    74.409107    2408.996
 0.50000    16.619806   103.349430     4.917836
386.237569    74.296068    2763.137
 0.75000    16.619806   120.042397     4.917836
386.218987    75.363825    3125.825
 1.00000    16.619806   137.518156     4.917836
386.206883    77.481076    3466.671

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -23.659447 -577.606736    -9.618738
-443.550082    -69.590304    -2652.157
 0.25000   -23.659447 -554.410242    -9.618738
-452.500819    -62.878246    -2465.061
 0.50000   -23.659447 -531.724031    -9.618738
-471.858963    -56.875961    -2281.685
 0.75000   -23.659447 -509.960646    -9.618738
-508.543259    -51.626727    -2185.447
 1.00000   -23.659447 -489.563282    -9.618738
-544.232001    -47.059174    -2093.736

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    16.496944    68.437659     8.768509
579.821677    89.282665    2049.689
 0.25000    16.496944    80.144485     8.768509
557.838029    84.429350    2367.461
 0.50000    16.496944    93.127682     8.768509
553.262571    81.079649    2714.792
 0.75000    16.496944   107.034129     8.768509
553.247090    78.950086    3069.526
 1.00000    16.496944   121.592697     8.768509
553.237007    78.009917    3406.360

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -22.474457 -532.199746    -8.353085
-404.754751    -73.775812    -2631.655
 0.25000   -22.474457 -512.875393    -8.353085
-412.211361    -69.512914    -2478.524
 0.50000   -22.474457 -493.976141    -8.353085
-428.338092    -66.349392    -2328.637
 0.75000   -22.474457 -475.845670    -8.353085
-458.898759    -64.254905    -2251.324
 1.00000   -22.474457 -458.853194    -8.353085
-488.630057    -63.434905    -2177.787

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.938633    13.517849     8.291064
357.592585    50.903680   472.921824
 0.25000    4.938633    13.523334     8.291064
357.575188    44.452962   545.133698
 0.50000    4.938633    13.529432     8.291064
357.558558    38.579727   618.423391
 0.75000    4.938633    13.535981     8.291064
357.543153    33.272034   692.504368
 1.00000    4.938633    13.542875     8.291064
357.529367    28.447608   767.036376
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD              >
                                780

 F R A M E   E L E M E N T   I N T E R N A
L  F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.035915  -72.058244    -0.404566
-64.563386   -18.512726  -622.808816
 0.25000   -4.035915  -72.049476    -0.404566
-64.579952   -21.385030  -630.101834
 0.50000   -4.035915  -72.040949    -0.404566
-64.598223   -25.050758  -637.710425
 0.75000   -4.035915  -72.032808    -0.404566
-64.617827   -29.525234  -645.340170
 1.00000   -4.035915  -72.025216    -0.404566
-64.638351   -34.723387  -652.973910

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.635511    18.562398    11.593801
602.982407    68.014140   874.518478
 0.25000    7.635511    18.567878    11.593801
602.965077    59.325081   1024.824
 0.50000    7.635511    18.573969    11.593801
602.948517    51.502311   1180.325
 0.75000    7.635511    18.580512    11.593801
602.933178    44.460102   1338.827
 1.00000    7.635511    18.587399    11.593801
602.919454    38.104600   1498.697

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.166321 -158.012910    -2.000689
-82.692202    -58.140343    -1248.445
 0.25000   -12.166321 -158.004148    -2.000689
-82.708720    -60.027689    -1245.579
 0.50000   -12.166321 -157.995627    -2.000689
-82.726940    -62.946259    -1245.207
 0.75000   -12.166321 -157.987490    -2.000689
-82.746489    -66.893700    -1241.951
 1.00000   -12.166321 -157.979903    -2.000689
-82.766953    -71.769934    -1241.811

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.375210    22.694992    11.214998
675.396334    74.118893   1350.679
 0.25000    9.375210    22.754181    11.214998
675.209073    65.459484   1576.278
 0.50000    9.375210    22.819977    11.214998
675.030132    57.671203   1832.542
 0.75000    9.375210    22.890653    11.214998
674.864376    50.667904   2095.514
 1.00000    9.375210    22.965041    11.214998
674.716077    44.360695   2362.597

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -12.318407 -277.886748    -1.698366
-86.552559    -41.417214    -1895.339
 0.25000  -12.318407 -277.792112    -1.698366
-86.731022    -43.460920    -1847.613
 0.50000  -12.318407 -277.700077    -1.698366
-86.927858    -46.433640    -1821.845
 0.75000  -12.318407 -277.612193    -1.698366
-87.139065    -50.344178    -1797.809
 1.00000  -12.318407 -277.530243    -1.698366
-87.360164    -55.107602    -1773.790

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   17.020688   57.271520    10.965098
677.193013   102.018522   1874.535
 0.25000   17.020688   65.891320    10.965098
654.843934    94.585357   2165.675
 0.50000   17.020688   75.462301    10.965098
633.506113    88.231002   2487.887
 0.75000   17.020688   85.731093    10.965098
613.858307    83.202716   2819.422
 1.00000   17.020688   96.513191    10.965098
610.877406    79.076849   3138.926
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD              >
                                781

 F R A M E   E L E M E N T   I N T E R N A
L  F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -18.741646 -460.826046    -5.745197
-284.869249    -58.696010    -2488.111
 0.25000  -18.741646 -446.840848    -5.745197
-308.042652    -57.532163    -2365.417
 0.50000  -18.741646 -433.224091    -5.745197
-333.723269    -57.411405    -2284.702
 0.75000  -18.741646 -420.190095    -5.745197
-361.270715    -58.316902    -2221.570
 1.00000  -18.741646 -407.997538    -5.745197
-389.891492    -60.137045    -2128.520

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.500902  115.511327     8.580553
553.755367    75.442714    2398.654
 0.25000   15.500902  140.286102     8.580553
550.681809    77.341752    2711.282
 0.50000   15.500902  167.429984     8.580553
550.650538    80.579935    3020.365
 0.75000   15.500902  196.391120     8.580553
550.629670    85.126498    3328.350
 1.00000   15.500902  226.276903     8.580553
550.609958    90.891578    3622.552

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -19.280745 -591.934649    -10.611071
-694.751021   -72.707577    -2026.961
 0.25000  -19.280745 -563.989485    -10.611071
-694.751021   -68.520808    -1953.939
 0.50000  -19.280745 -536.323858    -10.611071
-694.751021   -64.567755    -1881.015
 0.75000  -19.280745 -509.774174    -10.611071
-694.751021   -63.070313    -1808.222
 1.00000  -19.280745 -484.908174    -10.611071
-694.751021   -66.200547    -1735.506

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.377609   99.744695    11.593801
677.193013   102.018522   2357.610
 0.25000   21.377609  116.562240    11.593801
675.209073    94.585357   2691.576
 0.50000   21.377609  135.165253    11.593801
675.030132    89.181120   3065.761
 0.75000   21.377609  155.020510    11.593801
674.864376    94.410604   3458.040
 1.00000   21.377609  175.683497    11.593801
674.716077   101.022404   3828.808

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -29.985847 -656.022367    -15.077710
-839.182155  -104.171803    -2838.912
 0.25000  -29.985847 -629.607050    -15.077710
-835.869797   -95.470559    -2596.342
 0.50000  -29.985847 -603.627180    -15.077710
-832.557438   -87.896670    -2455.416
 0.75000  -29.985847 -578.598274    -15.077710
-829.245079   -81.595751    -2355.273
 1.00000  -29.985847 -554.999328    -15.077710
-825.932721   -76.702955    -2262.209

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.377609  115.511327    11.593801
677.193013   102.018522   2398.654
 0.25000   21.377609  140.286102    11.593801
675.209073    94.585357   2711.282
 0.50000   21.377609  167.429984    11.593801
675.030132    89.181120   3065.761
 0.75000   21.377609  196.391120    11.593801
674.864376    94.410604   3458.040
 1.00000   21.377609  226.276903    11.593801
674.716077   101.022404   3828.808
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD              >
                                782

 F R A M E   E L E M E N T   I N T E R N A
L  F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -29.985847 -656.022367    -15.077710
-839.182155  -104.171803    -2838.912
 0.25000  -29.985847 -629.607050    -15.077710
-835.869797   -95.470559    -2596.342
 0.50000  -29.985847 -603.627180    -15.077710
-832.557438   -87.896670    -2455.416
 0.75000  -29.985847 -578.598274    -15.077710
-829.245079   -81.595751    -2355.273
 1.00000  -29.985847 -554.999328    -15.077710
-825.932721   -76.702955    -2262.209

 COMB   DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.377609  167.429984    11.593801
675.030132    89.181120   3065.761
 0.75000   21.377609  196.391120    11.593801
674.864376    94.410604   3458.040
 1.00000   21.377609  226.276903    11.593801
674.716077   101.022404   3828.808

 COMB   DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -29.985847 -656.022367    -15.077710
-839.182155  -104.171803    -2838.912
 0.25000  -29.985847 -629.607050    -15.077710
-835.869797   -95.470559    -2596.342
 0.50000  -29.985847 -603.627180    -15.077710
-832.557438   -87.896670    -2455.416
 0.75000  -29.985847 -578.598274    -15.077710
-829.245079   -81.595751    -2355.273
 1.00000  -29.985847 -554.999328    -15.077710
-825.932721   -76.702955    -2262.209

 ELEM       46 ================== LENGTH
=    4.988071

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.127091  115.522382     0.891672
32.556243    52.009862    2018.533
 0.25000    5.127091  135.752692     0.891672
32.556243    55.009830    2166.008
 0.50000    5.127091  157.953094     0.891672
32.556243    59.288470    2283.358
 0.75000    5.127091  181.628746     0.891672
32.556243    64.669387    2370.259
 1.00000    5.127091  205.341543     0.891672
32.556243    71.179217    2429.574

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -13.029562 -338.725630    -7.664443
-491.072740   -34.211754   -742.650736
 0.25000  -13.029562 -314.736216    -7.664443
-491.072740   -30.063739   -705.995402
 0.50000  -13.029562 -290.393835    -7.664443
-491.072740   -25.916429   -669.340101
 0.75000  -13.029562 -267.142869    -7.664443
-491.072740   -21.770705   -632.684799
 1.00000  -13.029562 -245.038482    -7.664443
-491.072740   -17.626238   -596.029498

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.166354  161.916153     4.658575
92.105178    91.594904    3228.670
 0.25000   15.166354  187.519792     4.658575
92.105178    90.677492    3432.895
 0.50000   15.166354  215.509330     4.658575
92.105178    91.462028    3619.265
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD              >
                                783

 F R A M E   E L E M E N T   I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   15.166354  245.298083     4.658575
92.105178    94.894913    3791.446
 1.00000   15.166354  275.927062     4.658575
92.105178   101.329605    3947.085

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -17.060077 -502.289489    -9.776092
-640.893557   -41.100250    -1298.779
 0.25000  -17.060077 -471.333789    -9.776092
-640.893557   -36.465602    -1237.897
 0.50000  -17.060077 -440.754249    -9.776092
-640.893557   -31.859195    -1177.014
 0.75000  -17.060077 -411.509062    -9.776092
-640.893557   -27.398306    -1116.132
 1.00000  -17.060077 -384.213539    -9.776092
-640.893557   -22.774788    -1055.249

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.671946  146.940368     4.469615
220.351852    80.909567    3623.546
 0.25000   11.671946  170.456111     4.469615
220.351852    80.715269    3867.040
 0.50000   11.671946  196.157278     4.469615
220.351852    82.290177    4106.652
 0.75000   11.671946  223.505478     4.469615
220.351852    86.207250    4327.277
 1.00000   11.671946  251.685498     4.469615
220.351852    92.392401    4540.768

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -17.475260 -529.718781    -9.010119
-600.074671   -36.777891    -1667.590
 0.25000  -17.475260 -501.240374    -9.010119
-600.074671   -33.201750    -1596.174
 0.50000  -17.475260 -473.169731    -9.010119
-600.074671   -29.252841    -1524.767
 0.75000  -17.475260 -446.320676    -9.010119
-600.074671   -25.543746    -1453.361
 1.00000  -17.475260 -421.257857    -9.010119
-600.074671   -21.924461    -1381.954

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.094196  125.355996     6.513753
328.644946    73.814745    3400.965
 0.25000   11.094196  144.962112     6.513753
328.644946    72.650052    3642.802
 0.50000   11.094196  166.390139     6.513753
328.644946    73.034882    3878.286
 0.75000   11.094196  189.191207     6.513753
328.644946    75.491155    4107.924
 1.00000   11.094196  212.687584     6.513753
328.644946    79.939474    4328.598

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -20.259857 -480.364648    -9.483751
-501.792903   -57.487541    -1735.601
 0.25000  -20.259857 -456.619543    -9.483751
-501.792903   -53.007259    -1669.426
 0.50000  -20.259857 -433.216256    -9.483751
-501.792903   -49.402965    -1603.319
 0.75000  -20.259857 -410.831344    -9.483751
-501.792903   -46.903634    -1537.227
 1.00000  -20.259857 -389.935565    -9.483751
-501.792903   -45.273722    -1471.134

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.764628   26.664324     3.458064
125.260755    33.003507    1169.601
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD              >
                                784

 F R A M E   E L E M E N T   I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   10.764628   26.675998     3.458064
125.220344    28.861709    1217.609
 0.50000   10.764628   26.688610     3.458064
125.185771    24.962931    1289.110
 0.75000   10.764628   26.701915     3.458064
125.160394    22.055429    1389.818
 1.00000   10.764628   26.717067     3.458064
125.138373    20.465727    1514.178

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.813286 -126.676702    -1.151637
-137.288199    -4.406123   -623.276280
 0.25000   -3.813286 -126.661442    -1.151637
-137.320339    -4.266696   -598.147918
 0.50000   -3.813286 -126.647873    -1.151637
-137.354879    -4.158637   -573.019939
 0.75000   -3.813286 -126.634822    -1.151637
-137.391259    -4.082825   -547.891963
 1.00000   -3.813286 -126.622545    -1.151637
-137.433986    -4.032024   -522.775482

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.044152   27.537302     4.576522
297.140132    30.882782    1831.590
 0.25000    8.044152   27.548976     4.576522
297.099721    27.254344    1937.338
 0.50000    8.044152   27.561588     4.576522
297.065148    24.256244    2075.286
 0.75000    8.044152   27.574893     4.576522
297.039771    22.562966    2246.216
 1.00000    8.044152   27.590045     4.576522
297.017749    22.219273    2442.693

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.368124 -196.645864    -2.738667
-144.064963    -17.883202    -1132.604
 0.25000   -9.368124 -196.630604    -2.738667
-144.097103    -16.486538    -1092.745
 0.50000   -9.368124 -196.617035    -2.738667
-144.131642    -15.778452    -1052.904
 0.75000   -9.368124 -196.603984    -2.738667
-144.168022    -15.890315    -1013.063
 1.00000   -9.368124 -196.591707    -2.738667
-144.210750    -16.577248    -973.222626

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.707258  112.378648     5.880360
320.143454    67.849019    3181.091
 0.25000    9.707258  132.359779     5.880360
292.811984    65.676650    3410.227
 0.50000    9.707258  154.079418     5.880360
268.496299    64.972719    3632.233
 0.75000    9.707258  177.094405     5.880360
268.496299    66.512326    3847.906
 1.00000    9.707258  202.007706     5.880360
268.502694    69.842155    4053.992

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -16.110092 -458.335946    -7.304250
-383.032336    -35.292563    -1604.738
 0.25000  -16.110092 -433.203001    -7.304250
-383.032336    -31.886555    -1540.682
 0.50000  -16.110092 -409.652192    -7.304250
-401.047333    -29.102237    -1476.643
 0.75000  -16.110092 -387.965076    -7.304250
-432.773578    -27.057776    -1412.606
 1.00000  -16.110092 -365.903564    -7.304250
-461.188929    -25.533627    -1348.569
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING          LOAD              >
                                785

 F R A M E   E L E M E N T   I N T E R N A
L  F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.656305   96.307896     8.195854
414.615973    64.864589    2991.649
 0.25000    9.656305  112.958804     8.195854
391.850615    61.777705    3218.071
 0.50000    9.656305  131.041958     8.195854
371.597211    59.904430    3439.485
 0.75000    9.656305  150.211964     8.195854
371.597211    59.900101    3656.340
 1.00000    9.656305  170.693143     8.195854
371.602538    61.403158    3865.941

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.270747 -415.270779    -6.987603
-323.629197    -52.717737    -1666.663
 0.25000   -15.270747 -394.336651    -6.987603
-323.629197    -50.541636    -1608.760
 0.50000   -15.270747 -374.720340    -6.987603
-338.634532    -49.362904    -1550.942
 0.75000   -15.270747 -355.906724    -6.987603
-365.060456    -49.413971    -1493.206
 1.00000   -15.270747 -338.280544    -6.987603
-388.728617    -50.406306    -1435.473

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.505946    4.124503     5.519564
228.079119    17.954627   497.576488
 0.25000    2.505946    4.136183     5.519564
228.038635    15.526062   548.467550
 0.50000    2.505946    4.148801     5.519564
228.004007    13.147295   600.977719
 0.75000    2.505946    4.162119     5.519564
227.978352    10.830379   654.519813
 1.00000    2.505946    4.177274     5.519564
227.956290     8.610236   709.186579

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.952692  -47.901846    -0.544487
-12.302345    -34.077089   -491.040733
 0.25000   -2.952692  -47.886576    -0.544487
-12.334543    -36.126577   -485.783354
 0.50000   -2.952692  -47.873002    -0.544487
-12.369141    -38.902482   -480.526000
 0.75000   -2.952692  -47.859944    -0.544487
-12.405580    -42.465521   -475.437309
 1.00000   -2.952692  -47.847661    -0.544487
-12.448384    -46.846026   -470.439246

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.095192    8.333669     8.326955
392.603100    25.186360   1029.751
 0.25000    4.095192    8.345343     8.326955
392.562688    21.710622   1130.016
```

```
 0.50000     4.095192     8.357955     8.326955
392.528116    18.429290     1235.342
 0.75000     4.095192     8.371260     8.326955
392.502739    15.518353     1344.989
 1.00000     4.095192     8.386412     8.326955
392.480717    13.014728     1458.967

COMB DB-G3-2 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -10.908751   -104.009233    -3.593784
-17.195546   -65.320413   -926.044853
 0.25000   -10.908751   -103.993973    -3.593784
-17.227686   -64.221376   -909.859471
 0.50000   -10.908751   -103.980404    -3.593784
-17.262225   -64.809907   -893.681522
 0.75000   -10.908751   -103.967352    -3.593784
-17.298605   -67.741680   -877.731673
 1.00000   -10.908751   -103.955076    -3.593784
-17.341333   -73.124708   -861.835247
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    786

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000    5.208060    14.407001    8.087957
470.847930    30.200702     1776.025
 0.25000    5.208060    14.417508    8.087957
470.815660    26.469235     1918.690
 0.50000    5.208060    14.428859    8.087957
470.780444    23.147421     2079.509
 0.75000    5.208060    14.440833    8.087957
470.757605    20.297721     2256.957
 1.00000    5.208060    14.454470    8.087957
470.737786    17.892851     2449.153

COMB DB-G3-3 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -9.660287   -182.843393    -2.482957
-81.943804   -49.273215    -1351.195
 0.25000   -9.660287   -182.829660    -2.482957
-81.972730   -50.060710    -1317.205
 0.50000   -9.660287   -182.817448    -2.482957
-82.003815   -52.233665    -1283.240
 0.75000   -9.660287   -182.805701    -2.482957
-82.036557   -55.962670    -1249.487
 1.00000   -9.660287   -182.794652    -2.482957
-82.075012   -60.985583    -1215.780

COMB DB-G3-4 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   11.636589    72.229598    9.645738
495.073403    60.526994     2658.410
 0.25000   11.636589    84.034804    9.645738
469.155793    55.791338     2858.992
 0.50000   11.636589    96.825911    9.645738
449.054912    52.078280     3063.910
 0.75000   11.636589   110.348681    9.645738
428.906545    50.051240     3273.681
 1.00000   11.636589   125.377661    9.645738
419.380098    49.505209     3484.540

COMB DB-G3-4 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -12.874803   -349.266350    -5.046138
-229.851111   -51.551861    -1606.395
 0.25000  -12.874803   -334.118586    -5.046138
-249.804218   -51.165706    -1555.808
 0.50000  -12.874803   -320.304584    -5.046138
-274.011666   -51.933821    -1505.253
 0.75000  -12.874803   -307.035979    -5.046138
-297.390329   -54.002608    -1454.869
 1.00000  -12.874803   -294.579526    -5.046138
-333.345906   -57.148380    -1404.525

COMB DL-G1-1 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   10.191017    91.139637    1.477900
34.727569    52.629064     1959.113
 0.25000   10.191017   106.181687    1.477900
34.727569    56.470853     2134.636
 0.50000   10.191017   122.670479    1.477900
34.727569    61.732281     2277.957
 0.75000   10.191017   140.208522    1.477900
34.727569    68.523314     2388.483
 1.00000   10.191017   158.247856    1.477900
34.727569    76.463982     2466.143

COMB DL-G1-1 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -23.014006   -326.641263   -11.592130
-556.123872   -51.302315   -963.436311
 0.25000  -23.014006   -303.995487   -11.592130
-547.515614   -52.384383   -916.860909
 0.50000  -23.014006   -281.704481   -11.592130
-538.907357   -36.216200   -870.442027
 0.75000  -23.014006   -260.270326   -11.592130
-530.299100   -29.714878   -823.800041
 1.00000  -23.014006   -240.150899   -11.592130
-521.690842   -23.928890    -777.152974
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    787

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   20.866180    132.821913    5.536664
95.935492   103.143615     3214.155
 0.25000   20.866180    151.321576    5.536664
95.935492   103.588343     3472.672
 0.50000   20.866180    171.607385    5.536664
95.935492   105.580303     3703.608
 0.75000   20.866180    193.207745    5.536664
95.935492   109.612711     3913.502
 1.00000   20.866180    215.495809    5.536664
95.935492   116.103020     4088.689

COMB DL-G1-2 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -29.994998   -497.384735   -14.019719
-695.733884   -60.013272    -1685.350
 0.25000   -29.994998   -469.707289   -14.019719
-692.420703   -51.206116    -1607.648
 0.50000   -29.994998   -442.524073   -14.019719
-689.107523   -43.287064    -1530.305
 0.75000   -29.994998   -416.463521   -14.019719
-685.794342   -36.133431    -1452.623
 1.00000   -29.994998   -391.998713   -14.019719
-682.481162   -30.004394    -1374.877

COMB DL-G1-3 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   18.607163    124.307375    5.671416
241.312600    91.023523     3830.490
 0.25000   18.607163    141.310340    5.671416
241.312600    91.400471     4144.827

 0.50000   18.607163    159.957464    5.671416
241.312600    93.521813     4434.628
 0.75000   18.607163    179.815809    5.671416
241.312600    97.729242     4703.605
 1.00000   18.607163    200.311344    5.671416
241.312600   104.174016     4942.647

COMB DL-G1-3 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -30.150152   -547.247311   -13.135301
-642.623499   -56.854489    -2188.628
 0.25000  -30.150121   -521.825885   -13.135301
-640.227390   -48.689154    -2096.385
 0.50000  -30.150121   -496.860615   -13.135301
-637.831280   -41.682423    -2004.454
 0.75000  -30.150121   -472.930835   -13.135301
-635.435170   -35.958044    -1912.208
 1.00000  -30.150121   -450.470912   -13.135301
-633.039061   -31.562036    -1819.994

COMB DL-G1-4 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   17.790993    107.376155    7.914816
373.360336    85.524737     3730.944
 0.25000   17.790993    121.548899    7.914816
373.360336    83.930179     4038.328
 0.50000   17.790993    137.092125    7.914816
373.360336    84.172685     4325.635
 0.75000   17.790993    153.644959    7.914816
373.360336    86.367034     4596.523
 1.00000   17.790993    170.728920    7.914816
373.360336    90.750172     4842.715

COMB DL-G1-4 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -30.800536   -507.420139   -12.799259
-538.023618   -75.715243    -2262.368
 0.25000  -30.800536   -486.230224   -12.799259
-536.026352   -68.180552    -2176.631
 0.50000  -30.800536   -465.420536   -12.799259
-534.029085   -62.345169    -2091.173
 0.75000  -30.800536   -445.473976   -12.799259
-532.031819   -58.128380    -2005.452
 1.00000  -30.800536   -426.752608   -12.799259
-530.034553   -55.567368    -1919.764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    788

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   10.606050    26.583511    4.015578
117.591004    45.686765     1287.701
 0.25000   10.606050    26.589379    4.015578
117.573724    41.490056     1370.337
 0.50000   10.606050    26.595856    4.015578
117.557239    37.371795     1465.551
 0.75000   10.606050    26.602789    4.015578
117.541979    33.698731     1577.933
 1.00000   10.606050    26.610045    4.015578
117.528356    30.789426     1694.159

COMB DL-G2-1 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -6.140097   -147.429205    -1.439063
-115.633468    -6.268337   -804.038466
 0.25000   -6.140097   -147.420641    -1.439063
-115.649793    -5.779819   -771.991645
 0.50000   -6.140097   -147.412335    -1.439063
-115.667778    -5.369897   -739.944274
 0.75000   -6.140097   -147.404414    -1.439063
-115.687030    -5.058137   -707.932910
 1.00000   -6.140097   -147.397111    -1.439063
-115.707116    -4.993484   -675.810892

COMB DL-G2-2 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000    9.760874    31.167346    5.139779
315.562003    39.282451     2188.602
 0.25000    9.760874    31.173214    5.139779
315.544714    35.295276     2349.043
 0.50000    9.760874    31.179692    5.139779
315.528220    31.816286     2522.633
 0.75000    9.760874    31.186626    5.139779
315.512953    29.285345     2713.259
 1.00000    9.760874    31.193882    5.139779
315.499322    27.870962     2910.941

COMB DL-G2-2 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -12.023549   -240.311742    -3.107380
-120.633398   -22.166171    -1481.447
 0.25000  -12.023549   -240.303176    -3.107380
-120.649729   -20.579023    -1429.366
 0.50000  -12.023549   -240.294869    -3.107380
-120.667721   -19.737010    -1377.279
 0.75000  -12.023549   -240.286978    -3.107380
-120.686980   -19.687864    -1325.175
 1.00000  -12.023549   -240.279644    -3.107380
-120.707073   -20.607254    -1273.130

COMB DL-G2-3 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   16.483027    97.169268    6.536433
341.851836    79.490834     3467.102
 0.25000   16.483027   112.401330    6.536433
314.866337    77.723084     3761.718
 0.50000   16.483027   129.168243    6.536433
289.028183    77.188276     4034.412
 0.75000   16.483027   147.051443    6.536433
287.874350    78.039121     4286.402
 1.00000   16.483027   165.679630    6.536433
287.840009    80.449397     4511.348

COMB DL-G2-3 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -24.449987   -485.283611    -9.485459
-394.403051   -46.980346    -2093.904
 0.25000  -24.449987   -462.793536    -9.485459
-402.440889   -41.578082    -2010.896
 0.50000  -24.449987   -440.842132    -9.485459
-428.069743   -37.243784    -1927.968
 0.75000  -24.449987   -419.891778    -9.485459
-464.306920   -33.918886    -1845.213
 1.00000  -24.449987   -400.330623    -9.485459
-499.471114   -31.715481    -1762.312
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    789

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   16.033867    84.763331    9.641669
468.421137    79.123493     3405.742
 0.25000   16.033867    97.452738    9.641669
445.940268    75.140876     3693.249

 0.50000   16.033867   111.420787    9.641669
424.415221    72.522763     3962.804
 0.75000   16.033867   126.318783    9.641669
423.453995    71.378753     4215.255
 1.00000   16.033867   141.837574    9.641669
423.425386    71.676169     4445.656

COMB DL-G2-4 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -23.015661   -450.097643    -8.723953
-334.759545   -62.252598    -2171.789
 0.25000  -23.015661   -431.361621    -8.723953
-341.455643   -59.035808    -2102.135
 0.50000  -23.015661   -413.074517    -8.723953
-362.806329   -57.233879    -2026.610
 0.75000  -23.015661   -395.621359    -8.723953
-392.994513   -56.834856    -1951.233
 1.00000  -23.015661   -379.325505    -8.723953
-422.288825   -57.872631    -1875.745

COMB DL-G3-1 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000    4.368325     6.133089     7.666759
285.575115    27.490178     765.519246
 0.25000    4.368325     6.138959     7.666759
285.557800    22.613493     825.187811
 0.50000    4.368325     6.145439     7.666759
285.541281    18.340203     885.515830
 0.75000    4.368325     6.152575     7.666759
285.525990    14.590035     945.987976
 1.00000    4.368325     6.159634     7.666759
285.512337    11.296484     1006.938

COMB DL-G3-1 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -3.600227   -64.844265    -0.704330
-15.338225   -33.314363   -652.725357
 0.25000   -3.600227   -64.835697    -0.704330
-15.354574   -36.401592   -644.486936
 0.50000   -3.600227   -64.827388    -0.704330
-15.372587   -40.388095   -636.601372
 0.75000   -3.600227   -64.819494    -0.704330
-15.391867   -45.202692   -628.806235
 1.00000   -3.600227   -64.812158    -0.704330
-15.411983   -50.778094   -620.997346

COMB DL-G3-2 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000    6.802439    11.428009    10.582321
479.876045    37.236964     1496.182
 0.25000    6.802439    11.433874    10.582321
479.858800    30.728712     1617.862
 0.50000    6.802439    11.440348    10.582321
479.842348    25.165479     1740.683
 0.75000    6.802439    11.447278    10.582321
479.827120    20.370413     1865.763
 1.00000    6.802439    11.454530    10.582321
479.813526    16.334782     1992.426

COMB DL-G3-2 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -11.891947   -138.909497    -3.730914
-19.707022   -69.415499    -1241.508
 0.25000  -11.891947   -138.900936    -3.730914
-19.723324   -69.953611    -1218.186
 0.50000  -11.891947   -138.892633    -3.730914
-19.741280   -72.238524    -1194.915
 0.75000  -11.891947   -138.884745    -3.730914
-19.760504   -75.992496    -1171.748
 1.00000  -11.891947   -138.877414    -3.730914
-19.780559   -81.601257    -1148.561
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    790

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000    8.747198    20.155773    10.522220
549.824897    44.291324     2359.964
 0.25000    8.747198    20.219119    10.522220
549.638556    37.496596     2547.910
 0.50000    8.747198    20.289954    10.522220
549.460786    31.645507     2742.607
 0.75000    8.747198    20.363899    10.522220
549.296242    26.610481     2942.518
 1.00000    8.747198    20.442236    10.522220
549.149348    22.531214     3145.399

COMB DL-G3-3 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -12.384383   -234.481815    -2.825052
-69.751271   -53.306270    -1773.529
 0.25000  -12.384383   -234.389341    -2.825052
-69.927400   -54.933831    -1728.023
 0.50000  -12.384383   -234.299661    -2.825052
-70.121401   -58.063755    -1682.543
 0.75000  -12.384383   -234.214459    -2.825052
-70.329092   -62.530734    -1637.131
 1.00000  -12.384383   -234.135281    -2.825052
-70.545772   -68.343282    -1591.640

COMB DL-G3-4 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   16.465333    66.719821    11.720192
557.324012    79.790599     3137.484
 0.25000   16.465333    75.997362    11.720192
534.891019    72.814893     3396.645
 0.50000   16.465333    86.226155    11.720192
513.452569    67.384363     3645.941
 0.75000   16.465333    97.156383    11.720192
493.787139    63.143483     3886.447
 1.00000   16.465333   108.577257    11.720192
482.794073    60.432085     4112.168

COMB DL-G3-4 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -18.946247   -390.844666    -6.215128
-240.386357   -58.925077    -2128.381
 0.25000  -18.946247   -377.235415    -6.215128
-263.039568   -58.289951    -2060.222
 0.50000  -18.946247   -363.997391    -6.215128
-288.132252   -59.133831    -1992.131
 0.75000  -18.946247   -351.392301    -6.215128
-315.030996   -61.307455    -1902.947
 1.00000  -18.946247   -339.654195    -6.215128
-342.976284   -64.894337    -1836.600

COMB      DB ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   15.166354    161.916153    9.645738
495.073403    91.594904     3623.546
 0.25000   15.166354    187.519792    9.645738
470.811560    90.677492     3867.040
 0.50000   15.166354    215.509330    9.645738
470.780444    91.462028     4101.452
 0.75000   15.166354    245.298083    9.645738
470.757605    94.894913     4327.277
 1.00000   15.166354    275.927062    9.645738
470.737786   101.329605     4540.768

COMB      DB ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000  -20.259857   -529.718781    -9.776092
-640.893557   -65.320413    -1735.601
 0.25000  -20.259857   -501.240374    -9.776092
-640.893557   -64.221376    -1669.426
 0.50000  -20.259857   -473.169731    -9.776092
-640.893557   -64.809907    -1603.319
 0.75000  -20.259857   -446.320676    -9.776092
-640.893557   -67.741680    -1537.227
 1.00000  -20.259857   -421.257857    -9.776092
-640.893557   -73.124708    -1471.134
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    791

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   20.866180    132.821913    11.720192
557.324012   103.143615     3830.490
 0.25000   20.866180    151.321576    11.720192
549.638556   103.588343     4144.827
 0.50000   20.866180    171.607385    11.720192
549.460786   105.580303     4434.628
 0.75000   20.866180    193.207745    11.720192
549.296242   109.612711     4703.605
 1.00000   20.866180    215.495809    11.720192
549.149348   116.103020     4942.647

COMB      DL ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -30.800536   -547.247311   -14.019719
-695.733884   -75.715243    -2262.368
 0.25000   -30.800536   -521.825885   -14.019719
-692.420703   -69.953611    -2176.631
 0.50000   -30.800536   -496.860615   -14.019719
-689.107523   -72.238524    -2091.173
 0.75000   -30.800536   -472.930835   -14.019719
-685.794342   -75.992496    -2005.452
 1.00000   -30.800536   -450.470912   -14.019719
-682.481162   -81.601257    -1919.764

COMB      CAR ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   20.866180    161.916153    11.720192
557.324012   103.143615     3830.490
 0.25000   20.866180    187.519792    11.720192
549.638556   103.588343     4144.827
 0.50000   20.866180    215.509330    11.720192
549.460786   105.580303     4434.628
 0.75000   20.866180    245.298083    11.720192
549.296242   109.612711     4703.605
 1.00000   20.866180    275.927062    11.720192
549.149348   116.103020     4942.647

COMB      CAR ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -30.800536   -547.247311   -14.019719
-695.733884   -75.715243    -2262.368
 0.25000   -30.800536   -521.825885   -14.019719
-692.420703   -69.953611    -2176.631
 0.50000   -30.800536   -496.860615   -14.019719
-689.107523   -72.238524    -2091.173
 0.75000   -30.800536   -472.930835   -14.019719
-685.794342   -75.992496    -2005.452
 1.00000   -30.800536   -450.470912   -14.019719
-682.481162   -81.601257    -1919.764

COMB      DESIGN ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   20.866180    161.916153    11.720192
557.324012   103.143615     3830.490
 0.25000   20.866180    187.519792    11.720192
549.638556   103.588343     4144.827
 0.50000   20.866180    215.509330    11.720192
549.460786   105.580303     4434.628
 0.75000   20.866180    245.298083    11.720192
549.296242   109.612711     4703.605
 1.00000   20.866180    275.927062    11.720192
549.149348   116.103020     4942.647

COMB      DESIGN ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -30.800536   -547.247311   -14.019719
-695.733884   -75.715243    -2262.368
 0.25000   -30.800536   -521.825885   -14.019719
-692.420703   -69.953611    -2176.631
 0.50000   -30.800536   -496.860615   -14.019719
-689.107523   -72.238524    -2091.173
 0.75000   -30.800536   -472.930835   -14.019719
-685.794342   -75.992496    -2005.452
 1.00000   -30.800536   -450.470912   -14.019719
-682.481162   -81.601257    -1919.764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    792

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM       47 ================== LENGTH =    4.987346

COMB DB-G1-1 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000    4.728322    138.377990    2.395048
114.231371    71.965990     2430.778
 0.25000    4.728322    159.180978    2.395048
114.231371    73.366549     2543.189
 0.50000    4.728322    181.936061    2.395048
114.231371    75.854911     2623.184
 0.75000    4.728322    206.137125    2.395048
114.231371    79.563910     2670.396
 1.00000    4.728322    230.352610    2.395048
114.231371    84.382366     2687.669

COMB DB-G1-1 ------------------- MIN

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   -13.516460   -313.396787    -6.466365
-390.655176   -17.446195   -596.022656
 0.25000   -13.516460   -288.940354    -6.466365
-390.655176   -15.024441   -567.263173
 0.50000   -13.516460   -264.173456    -6.466365
-390.655176   -12.609781   -538.503694
 0.75000   -13.516460   -240.554518    -6.466365
-390.655176   -10.205398   -509.744505
 1.00000   -13.516460   -218.606068    -6.466365
-390.655176    -7.822503   -480.985411

COMB DB-G1-2 ------------------- MAX

REL DIST             P            V2           V3
           T          M2           M3
 0.00000   14.845458    200.343902    4.809152
187.285222   102.392822     3948.324
 0.25000   14.845458    226.631826    4.809152
187.285222   103.457921     4092.669
 0.50000   14.845458    255.285063    4.809152
187.285222   106.212332     4213.157
 0.75000   14.845458    285.702601    4.809152
187.285222   110.641788     4316.371
 1.00000   14.845458    316.930456    4.809152
187.285222   116.596635     4399.784
```

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.733493	-458.392848	-8.529154
-529.825495	-22.628342	-1055.227	
0.25000	-17.733493	-426.881629	-8.529154
-529.825495	-19.931970	-1005.697	
0.50000	-17.733493	-395.791407	-8.529154
-529.825495	-17.275521	-956.167283	
0.75000	-17.733493	-366.104208	-8.529154
-529.825495	-14.654956	-906.640628	
1.00000	-17.733493	-338.437291	-8.529154
-529.825495	-12.096286	-857.113973	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.364594	192.453616	4.665432
288.744635	93.896062	4541.582	
0.25000	11.364594	216.594924	4.665432
288.744635	94.499442	4707.928	
0.50000	11.364594	242.902889	4.665432
288.744635	96.716363	4857.845	
0.75000	11.364594	270.825979	4.665432
288.744635	100.509391	4996.777	
1.00000	11.364594	299.553317	4.665432
288.744635	105.703811	5119.633	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.247514	-474.024081	-8.216981
-537.917028	-21.824827	-1381.943	
0.25000	-18.247514	-445.037963	-8.216981
-537.917028	-19.640421	-1320.317	
0.50000	-18.247514	-416.500262	-8.216981
-537.917028	-17.471901	-1258.691	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
793

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-18.247514	-389.246957	-8.216981
-537.917028	-15.325614	-1197.065	
1.00000	-18.247514	-363.844653	-8.216981
-537.917028	-13.214414	-1135.439	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.642462	163.426913	6.294772
345.004665	81.473262	4328.783	
0.25000	10.642462	183.554505	6.294772
345.004665	81.557753	4492.116	
0.50000	10.642462	205.488362	6.294772
345.004665	83.104663	4642.582	
0.75000	10.642462	228.768665	6.294772
345.004665	85.970724	4784.798	
1.00000	10.642462	252.721284	6.294772
345.004665	90.146567	4914.435	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.036950	-423.075986	-8.501892
-455.454868	-44.974676	-1471.138	
0.25000	-21.036950	-398.907654	-8.501892
-455.454868	-42.708374	-1409.576	
0.50000	-21.036950	-375.115019	-8.501892
-455.454868	-41.040735	-1348.016	
0.75000	-21.036950	-352.393117	-8.501892
-455.454868	-40.093542	-1286.461	
1.00000	-21.036950	-331.214342	-8.501892
-455.454868	-39.739217	-1224.906	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.911532	43.047940	2.067517
133.797141	20.581043	1514.075	
0.25000	10.911532	43.059854	2.067517
133.757392	20.309374	1533.282	
0.50000	10.911532	43.072700	2.067517
133.723445	20.346882	1574.086	
0.75000	10.911532	43.086226	2.067517
133.690940	20.582782	1641.213	
1.00000	10.911532	43.101584	2.067517
133.666685	21.158107	1731.872	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.961874	-105.790802	-1.217569
-154.832003	-4.087651	-522.764177	
0.25000	-3.961874	-105.775353	-1.217569
-154.863302	-4.032761	-500.080741	
0.50000	-3.961874	-105.761599	-1.217569
-154.897025	-3.995151	-477.397309	
0.75000	-3.961874	-105.748388	-1.217569
-154.932581	-4.005313	-454.718515	
1.00000	-3.961874	-105.735982	-1.217569
-154.974494	-4.062137	-432.051702	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.085849	50.800275	3.268749
273.448744	23.199671	2442.135	
0.25000	8.085849	50.812189	3.268749
273.408995	22.413367	2496.851	
0.50000	8.085849	50.825035	3.268749
273.375049	22.018142	2577.929	
0.75000	8.085849	50.838561	3.268749
273.342543	21.964997	2691.786	
1.00000	8.085849	50.853919	3.268749
273.318288	22.176797	2829.394	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.725006	-159.441553	-2.638278
-198.110059	-16.565821	-973.229275	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
794

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-9.725006	-159.426104	-2.638278
-198.141358	-16.193088	-933.857939	
0.50000	-9.725006	-159.412350	-2.638278
-198.175081	-16.147988	-894.489063	
0.75000	-9.725006	-159.399139	-2.638278
-198.210637	-16.541040	-855.127394	
1.00000	-9.725006	-159.386734	-2.638278
-198.252550	-17.291587	-815.765725	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.449388	151.025681	4.899191
336.637878	71.261911	4054.071	
0.25000	9.449388	171.482668	4.899191
308.023556	71.132475	4209.705	
0.50000	9.449388	193.662013	4.899191
276.108785	72.111963	4351.468	
0.75000	9.449388	217.112568	4.899191
261.102416	74.404947	4484.592	
1.00000	9.449388	242.436396	4.899191
261.102416	77.616039	4604.526	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.807120	-405.343060	-6.619432
-362.487267	-25.441889	-1348.563	
0.25000	-16.807120	-379.830280	-6.619432
-362.487267	-23.850185	-1290.601	
0.50000	-16.807120	-355.921541	-6.619432
-387.297633	-22.555333	-1232.641	
0.75000	-16.807120	-333.025521	-6.619432
-417.858526	-21.655330	-1174.687	
1.00000	-16.807120	-311.608419	-6.619432
-445.150756	-21.077880	-1116.733	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.232395	128.938785	6.823700
382.257011	62.490795	3865.485	
0.25000	9.232395	145.978140	6.823700
358.423119	61.632330	4017.778	
0.50000	9.232395	164.452109	6.823700
331.840165	61.742461	4159.442	
0.75000	9.232395	183.984916	6.823700
319.340825	63.030566	4294.463	
1.00000	9.232395	205.078037	6.823700
319.340825	65.226438	4418.890	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.914699	-361.099522	-6.835815
-302.906941	-50.127645	-1435.476	
0.25000	-15.914699	-339.849023	-6.835815
-302.906941	-49.055597	-1378.103	
0.50000	-15.914699	-319.934580	-6.835815
-323.572381	-48.738334	-1320.731	
0.75000	-15.914699	-300.863667	-6.835815
-349.027642	-49.297626	-1263.363	
1.00000	-15.914699	-283.024596	-6.835815
-371.760316	-50.584574	-1205.996	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.172071	4.780863	4.513382
154.991340	8.541367	708.363438	
0.25000	2.172071	4.792782	4.513382
154.951520	7.072213	741.242893	
0.50000	2.172071	4.805634	4.513382
154.917519	5.639495	775.160320	
0.75000	2.172071	4.819166	4.513382
154.884959	4.254080	809.737629	
1.00000	2.172071	4.834535	4.513382
154.860465	2.933527	844.913550	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
795

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.621378	-33.435044	-1.625729
-2.601116	-46.561981	-470.441681	
0.25000	-2.621378	-33.419584	-1.625729
-2.632473	-47.489114	-457.443424	
0.50000	-2.621378	-33.405824	-1.625729
-2.666253	-49.168111	-444.445170	
0.75000	-2.621378	-33.392608	-1.625729
-2.701867	-51.655346	-431.446926	
1.00000	-2.621378	-33.380197	-1.625729
-2.743855	-54.833630	-418.448682	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.623762	10.777840	6.984621
281.516922	13.342751	1457.633	
0.25000	3.623762	10.789754	6.984621
281.477173	11.557593	1521.099	
0.50000	3.623762	10.802600	6.984621
281.443226	9.853646	1588.040	
0.75000	3.623762	10.816126	6.984621
281.410720	8.250647	1658.824	
1.00000	3.623762	10.831484	6.984621
281.386465	6.751091	1732.441	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.698856	-75.547885	-3.702785
-27.816266	-72.549920	-861.855814	
0.25000	-10.698856	-75.532435	-3.702785
-27.847665	-73.477932	-835.151876	
0.50000	-10.698856	-75.518682	-3.702785
-27.881288	-73.869490	-808.450934	
0.75000	-10.698856	-75.505471	-3.702785
-27.916844	-76.916549	-781.758767	
1.00000	-10.698856	-75.493065	-3.702785
-27.958757	-81.318141	-755.066600	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.837175	31.025599	6.529323
368.612509	18.618756	2447.787	
0.25000	4.837175	31.036321	6.529323
368.576734	16.621359	2533.025	
0.50000	4.837175	31.047882	6.529323
368.546183	14.877446	2633.073	
0.75000	4.837175	31.060056	6.529323
368.516927	13.372468	2748.660	
1.00000	4.837175	31.073676	6.529323
368.495098	12.089046	2876.263	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.583043	-140.185168	-3.459538
-121.888911	-60.668538	-1215.796	
0.25000	-9.583043	-140.171264	-3.459538
-121.917080	-61.244502	-1173.376	
0.50000	-9.583043	-140.158886	-3.459538
-121.947431	-62.896517	-1130.958	
0.75000	-9.583043	-140.146996	-3.459538
-121.979431	-65.733428	-1088.546	
1.00000	-9.583043	-140.135831	-3.459538
-122.017153	-69.614117	-1046.134	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.426930	100.263628	7.478355
438.733657	50.421535	3483.646	
0.25000	11.426930	112.329308	7.478355
403.574589	48.855917	3614.561	
0.50000	11.426930	125.373872	7.478355
380.983376	47.997861	3744.184	
0.75000	11.426930	139.136793	7.478355
360.999930	48.026311	3876.996	
1.00000	11.426930	154.390629	7.478355
341.997489	48.634531	4007.967	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
796

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.036940	-297.774303	-5.601167
-227.189275	-56.863477	-1404.525	
0.25000	-13.036902	-282.419522	-5.601167
-252.603579	-56.729310	-1350.884	
0.50000	-13.036902	-268.406658	-5.601167
-276.156980	-57.492596	-1297.245	
0.75000	-13.036902	-254.966782	-5.601167
-300.904235	-59.249572	-1243.611	
1.00000	-13.036902	-242.370001	-5.601167
-338.050516	-61.890935	-1189.977	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.574940	109.692623	2.416401
94.511926	78.019988	2467.661	
0.25000	9.574940	125.838918	2.416401
95.322952	81.092496	2587.918	
0.50000	9.574940	143.445339	2.416401
95.362359	85.288341	2675.582	
0.75000	9.574940	162.078734	2.416401
95.362359	90.789638	2729.694	
1.00000	9.574940	181.235804	2.416401
95.362359	96.869596	2750.588	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.261443	-283.980794	-8.394230
-420.863527	-23.900814	-777.215578	
0.25000	-23.261443	-261.993988	-8.394230
-413.067547	-20.420780	-740.169568	
0.50000	-23.261443	-240.397499	-8.394230
-404.498954	-17.376571	-703.135184	
0.75000	-23.261443	-219.714451	-8.394230
-395.892683	-14.839958	-665.958109	
1.00000	-23.261443	-200.377158	-8.394230
-387.285677	-12.314543	-628.930663	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.261862	164.670296	5.113534
163.507148	117.908579	4090.475	
0.25000	20.261862	184.463013	5.113534
163.507148	120.509399	4254.117	
0.50000	20.261862	206.054632	5.113534
163.507148	124.581413	4389.258	
0.75000	20.261862	228.941838	5.113534
163.507148	130.200718	4501.371	
1.00000	20.261862	252.529334	5.113534
163.507148	136.624086	4580.601	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-30.275621	-426.269409	-10.631364
-548.224495	-30.363162	-1377.932	
0.25000	-30.275621	-399.363558	-10.631364
-544.911642	-26.640291	-1311.003	
0.50000	-30.275621	-373.000000	-10.631364
-541.597768	-23.664212	-1247.106	
0.75000	-30.275621	-347.793549	-10.631364
-538.286245	-21.357347	-1183.055	
1.00000	-30.275621	-324.276930	-10.631364
-534.973546	-19.127397	-1119.261	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.047881	161.639187	5.055057
269.546765	106.330584	4943.801	
0.25000	18.047881	179.824685	5.055057
269.546765	108.706699	5137.959	
0.50000	18.047881	199.665961	5.055057
269.546765	112.608111	5306.342	
0.75000	18.047881	220.701034	5.055057
269.546765	117.984599	5452.217	
1.00000	18.047881	242.384828	5.055057
269.546765	124.214389	5568.395	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
797

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-30.634527	-459.194503	-10.211907
-540.303463	-31.585901	-1820.057	
0.25000	-30.634527	-434.474928	-10.211907
-537.007613	-27.435932	-1739.464	
0.50000	-30.634527	-410.259408	-10.211907
-535.510775	-25.182117	-1658.871	
0.75000	-30.634527	-387.110926	-10.211907
-533.116090	-23.501725	-1578.174	
1.00000	-30.634527	-365.500129	-10.211907
-530.720329	-22.229740	-1497.682	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.070661	139.166709	6.721783
340.401473	92.773491	4843.052	
0.25000	17.070661	154.325149	6.721783
340.401473	94.054018	5030.932	
0.50000	17.070661	170.863755	6.721783
340.401473	96.823837	5197.314	
0.75000	17.070661	188.397445	6.721783
340.401473	100.937445	5345.426	
1.00000	17.070661	206.471874	6.721783
340.401473	105.952587	5469.076	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-31.230986	-420.606347	-10.156503
-455.845239	-55.203271	-1919.807	
0.25000	-31.230986	-400.001755	-10.156503
-453.848190	-52.020912	-1839.609	
0.50000	-31.230986	-379.817019	-10.156503
-451.850316	-50.036855	-1759.413	
0.75000	-31.230986	-360.521706	-10.156503
-449.854237	-49.270531	-1679.132	
1.00000	-31.230986	-342.508125	-10.156503
-447.857261	-49.287133	-1599.037	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.703941	40.527828	2.383881
119.713636	31.026275	1694.160	
0.25000	10.703941	40.534005	2.383881
119.696047	30.136013	1732.244	
0.50000	10.703941	40.540797	2.383881
119.679248	29.301455	1783.003	
0.75000	10.703941	40.548043	2.383881
119.663673	29.302463	1850.149	
1.00000	10.703941	40.555606	2.383881
119.649757	29.130800	1923.776	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.213450	-116.860832	-1.357541
-135.527557	-5.361209	-675.804672	
0.25000	-6.213450	-116.852465	-1.357541
-135.543248	-5.327710	-646.555624	
0.50000	-6.213450	-116.844357	-1.357541
-135.560601	-5.561906	-617.320558	
0.75000	-6.213450	-116.836674	-1.357541
-135.579211	-5.909338	-588.058277	
1.00000	-6.213450	-116.829566	-1.357541
-135.598603	-6.343521	-558.854047	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.701865	51.014481	3.412509
265.652810	28.773243	2910.271	
0.25000	9.701865	51.020658	3.412509
265.635213	27.898092	2993.401	
0.50000	9.701865	51.027452	3.412509
265.618406	27.551075	3088.339	
0.75000	9.701865	51.034698	3.412509
265.602824	27.552881	3199.241	
1.00000	9.701865	51.042262	3.412509
265.588900	27.847392	3318.193	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
798

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.342876	-186.134546	-2.838152
-168.172558	-20.426501	-1273.141	
0.25000	-12.342876	-186.126179	-2.838152
-168.188255	-19.930125	-1221.481	
0.50000	-12.342876	-186.118070	-2.838152
-168.205615	-19.992943	-1169.807	
0.75000	-12.342876	-186.110386	-2.838152
-168.224232	-20.567354	-1118.163	
1.00000	-12.342876	-186.103278	-2.838152
-168.243632	-21.494080	-1066.578	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.187631	129.143201	5.144476
322.073360	82.225596	4511.785	
0.25000	16.187631	145.307610	5.144476
293.326895	83.193128	4694.037	
0.50000	16.187631	163.010155	5.144476
265.698940	85.277897	4852.950	
0.75000	16.187631	181.854588	5.144476
248.444662	88.267720	4989.896	
1.00000	16.187631	201.371974	5.144476
248.416164	91.751811	5099.956	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.863229	-403.704714	-7.695899
-342.694593	-31.754476	-1637.344	
0.25000	-24.863229	-381.779999	-7.695899
-348.659037	-29.634129	-1686.722	
0.50000	-24.863229	-360.415656	-7.695899
-376.633140	-28.350245	-1611.112	
0.75000	-24.863229	-340.088734	-7.695899
-411.184480	-27.835624	-1535.536	
1.00000	-24.863229	-321.158753	-7.695899
-445.925842	-27.654973	-1459.907	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.516037	111.912357	7.458890
389.518665	73.050644	4445.343	
0.25000	15.516037	125.378476	7.458890
365.570784	72.698392	4621.422	
0.50000	15.516037	140.125974	7.458890
342.554704	73.469290	4778.154	
0.75000	15.516037	155.824755	7.458890
328.190645	75.266085	4916.872	
1.00000	15.516037	172.084138	7.458890
328.156904	77.724859	5033.246	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.281935	-370.742535	-7.599160
-287.064009	-57.389811	-1875.744	
0.25000	-23.281935	-352.477665	-7.599160
-292.032821	-56.608829	-1800.658	
0.50000	-23.281935	-334.679625	-7.599160
-315.337268	-56.941255	-1725.587	
0.75000	-23.281935	-317.745831	-7.599160
-344.121028	-58.245427	-1650.541	
1.00000	-23.281935	-302.009114	-7.599160
-373.063091	-60.129860	-1575.451	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.856956	6.590686	5.609462
188.359953	10.826602	1005.895	
0.25000	3.856956	6.596865	5.609462
188.342330	8.752841	1040.551	
0.50000	3.856956	6.603661	5.609462
188.325499	6.853032	1075.630	
0.75000	3.856956	6.610909	5.609462
188.309894	5.056789	1110.782	
1.00000	3.856956	6.618476	5.609462
188.295949	3.381249	1146.118	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
799

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.177753	-49.508482	-1.493776
-2.855474	-49.990621	-620.939673	
0.25000	-3.177753	-49.500112	-1.493776
-2.871191	-52.519414	-603.381025	
0.50000	-3.177753	-49.492001	-1.493776
-2.888571	-55.526844	-585.800252	
0.75000	-3.177753	-49.484315	-1.493776
-2.907211	-58.979283	-568.221152	
1.00000	-3.177753	-49.477205	-1.493776
-2.926634	-62.814520	-550.645027	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.045398	14.423930	7.994116
324.920356	16.285761	1990.714	
0.25000	6.045398	14.430104	7.994116
324.902802	13.580127	2060.313	
0.50000	6.045398	14.436894	7.994116
324.886034	11.327528	2130.594	
0.75000	6.045398	14.444136	7.994116
324.870489	9.299217	2202.135	
1.00000	6.045398	14.451696	7.994116
324.856602	7.469907	2275.178	

COMB DL-G3-2 ---------- MIN

```
REL DIST          P          V2          V3
T          M2          M3
0.00000   -11.575165  -104.460746    -3.796616
-22.513438   -80.380578    -1148.515
0.25000   -11.575165  -104.452282    -3.796616
-22.529103    -81.701943    -1112.196
0.50000   -11.575165  -104.444277    -3.796616
-22.546428    -83.979679    -1075.852
0.75000   -11.575165  -104.436597    -3.796616
-22.565009    -87.458265    -1039.519
1.00000   -11.575165  -104.429492    -3.796616
-22.584370    -91.747607    -999.342213

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    8.118941    33.998236    7.585009
399.905657    22.927145    3143.646
0.25000    8.118941    34.064923    7.585009
399.715986    20.427612    3248.282
0.50000    8.118941    34.138263    7.585009
399.534796    18.573479    3358.399
0.75000    8.118941    34.216489    7.585009
399.366837    16.961591    3473.469
1.00000    8.118941    34.298141    7.585009
399.216771    15.601649    3591.382

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -12.258202  -178.370906    -3.415110
-100.117604   -67.427797    -1591.597
0.25000   -12.258202  -178.280571    -3.415110
-100.286856   -69.438236    -1535.508
0.50000   -12.258202  -178.193026    -3.415110
-100.474046   -72.431687    -1479.366
0.75000   -12.258202  -178.110074    -3.415110
-100.674797   -76.199125    -1423.181
1.00000   -12.258202  -178.033334    -3.415110
-100.883977   -80.601913    -1367.099

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   15.874116   89.858856    8.535800
447.293649    61.224369    4111.242
0.25000   15.874116   99.662855    8.535800
424.125659    59.480911    4266.463
0.50000   15.874116   110.420343    8.535800
401.936784    58.734643    4410.473
0.75000   15.874116   121.890227    8.535800
381.463753    58.527955    4544.722
1.00000   15.874116   133.812651    8.535800
363.427450    58.756828    4664.464
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

Page
<          MOVING          LOAD          >
800

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -18.887672  -318.234210    -5.999422
-223.617105   -164.321544    -1836.565
0.25000   -18.887672  -304.946982    -5.999422
-245.071080    -65.162499    -1766.140
0.50000   -18.887672  -292.041862    -5.999422
-268.967203    -67.120516    -1695.689
0.75000   -18.887672  -279.790088    -5.999422
-294.626490    -69.972398    -1625.290
1.00000   -18.887672  -268.434670    -5.999422
-321.278405    -73.417957    -1554.881

COMB      DB ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    14.845458   200.343902    7.478355
438.733657    102.392822    4541.582
0.25000    14.845458   226.631826    7.478355
403.574589    103.457921    4707.928
0.50000    14.845458   255.285063    7.478355
380.983376    106.212332    4857.845
0.75000    14.845458   285.702601    7.478355
368.516927    111.741788    4998.777
1.00000    14.845458   316.930456    7.478355
368.495098    116.596635    5119.633

COMB      DB ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -21.036950  -474.024081    -8.529154
-537.917028    -72.549920    -1471.138
0.25000   -21.036950  -445.037963    -8.529154
-537.917028    -72.435932    -1409.576
0.50000   -21.036950  -416.500262    -8.529154
-537.917028    -73.964990    -1348.016
0.75000   -21.036950  -389.246957    -8.529154
-537.917028    -76.916549    -1286.461
1.00000   -21.036950  -363.844653    -8.529154
-537.917028    -81.318141    -1224.906

COMB      DL ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   20.261862   164.670296    8.535800
447.293649    117.908579    4943.801
0.25000   20.261862   184.463013    8.535800
424.125659    120.509999    5137.959
0.50000   20.261862   206.054632    8.535800
401.936784    124.581413    5306.342
0.75000   20.261862   228.941838    8.535800
399.366837    130.200718    5452.217
1.00000   20.261862   252.529334    8.535800
399.216771    136.624086    5568.395

COMB      DL ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -31.230986  -459.194503   -10.631364
-548.224495    -80.380578    -1919.807
0.25000   -31.230986  -434.474926   -10.631364
-544.911642    -81.701943    -1839.609
0.50000   -31.230986  -410.259408   -10.631364
-541.597768    -83.979679    -1759.413
0.75000   -31.230986  -387.110926   -10.631364
-538.286245    -87.458265    -1679.132
1.00000   -31.230986  -365.500129   -10.631364
-534.973546    -91.747607    -1599.037

COMB      CAR ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   20.261862   200.343902    8.535800
447.293649    117.908579    4943.801
0.25000   20.261862   226.631826    8.535800
424.125659    120.509999    5137.959
0.50000   20.261862   255.285063    8.535800
401.936784    124.581413    5306.342
0.75000   20.261862   285.702601    8.535800
399.366837    130.200718    5452.217
1.00000   20.261862   316.930456    8.535800
399.216771    136.624086    5568.395
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

Page
<          MOVING          LOAD          >
801

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -31.230986  -474.024081   -10.631364
-548.224495    -80.380578    -1919.807
0.25000   -31.230986  -445.037963   -10.631364
-544.911642    -81.701943    -1839.609
0.50000   -31.230986  -416.500262   -10.631364
-541.597768    -83.979679    -1759.413
0.75000   -31.230986  -389.246957   -10.631364
-538.286245    -87.458265    -1679.132
1.00000   -31.230986  -365.500129   -10.631364
-537.917028    -91.747607    -1599.037

ELEM       48 ========== LENGTH =    4.987936

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    4.328630   157.919408    3.871167
222.402234    84.948579    2688.428
0.25000    4.328630   179.229886    3.871167
222.402234    84.186907    2763.097
0.50000    4.328630   202.484996    3.871167
222.402234    84.426464    2802.759
0.75000    4.328630   227.171998    3.871167
222.402234    85.883996    2811.796
1.00000    4.328630   251.851464    3.871167
222.402234    88.382776    2792.749

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -13.919688  -291.589981    -4.805663
-270.401243    -7.498751   -480.868121
0.25000   -13.919688  -266.706662    -4.805663
-270.401243    -6.461741   -456.227579
0.50000   -13.919688  -241.541823    -4.805663
-270.401243    -5.441984   -431.588801
0.75000   -13.919688  -217.545219    -4.805663
-270.401243    -4.440501   -406.961854
1.00000   -13.919688  -195.229100    -4.805663
-270.401243    -3.501333   -382.334935

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    14.551955   234.921355    5.294286
325.575812    117.279851    4400.551
0.25000    14.551955   261.818479    5.294286
325.575812    116.428739    4479.228
0.50000    14.551955   291.071499    5.294286
325.575812    117.026320    4528.126
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

Page
<          MOVING          LOAD          >
802

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.75000    14.551955   322.071724    5.294286
325.575812    119.163790    4551.591
1.00000    14.551955   353.852954    5.294286
325.575812    122.762732    4577.579

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -18.153542  -418.722380    -6.870112
-380.760623   -11.702578   -856.934753
0.25000   -18.153542  -386.698641    -6.870112
-380.760623   -10.461102   -813.586358
0.50000   -18.153542  -355.132618    -6.870112
-380.760623    -9.251256   -770.241043
0.75000   -18.153542  -324.992833    -6.870112
-380.760623    -8.084883   -726.911902
1.00000   -18.153542  -296.886327    -6.870112
-380.760623    -6.981783   -683.588906

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    10.999535   236.678675    5.284034
394.877838    106.537304    5120.145
0.25000    10.999535   261.376925    5.284034
394.877838    105.287156    5198.962
0.50000    10.999535   288.233651    5.284034
394.877838    105.454305    5255.930
0.75000    10.999535   316.689226    5.284034
394.877838    107.085852    5303.347
1.00000    10.999535   345.922445    5.284034
394.877838    110.462107    5336.335

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -18.646243  -420.552045    -6.924044
-430.184663   -12.807603   -1135.290
0.25000   -18.646243   -391.097273    -6.924044
-430.184663   -11.723599   -1079.185
0.50000   -18.646243   -362.124510    -6.924044
-430.184663   -10.653263   -1023.081
0.75000   -18.646243   -334.457410    -6.924044
-430.184663    -9.606740   -966.989288
1.00000   -18.646243   -308.653124    -6.924044
-430.184663    -8.597334   -910.903974

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    10.152430   205.354534    6.497761
385.845236    91.070544    4914.622
0.25000    10.152430   225.946396    6.497761
385.845236    89.504178    4986.830
0.50000    10.152430   248.337471    6.497761
385.845236    89.149224    5041.109
0.75000    10.152430   272.061896    6.497761
385.845236    90.108993    5088.166
1.00000    10.152430   296.436221    6.497761
385.845236    92.631196    5123.734

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -21.500140  -365.422662    -7.533125
-398.714786   -39.382849    -1224.843
0.25000   -21.500140  -340.863653    -7.533125
-398.714786   -37.839590    -1165.935
0.50000   -21.500140  -316.708346    -7.533125
-398.714786   -36.856016    -1107.028
0.75000   -21.500140  -293.641501    -7.533125
-398.714786   -36.517696    -1048.140
1.00000   -21.500140  -272.127628    -7.533125
-398.714786   -36.748013    -989.261385

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    11.097482   59.701943    0.944176
151.136914    21.277093    1731.829
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

Page
<          MOVING          LOAD          >
803

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.25000    11.097482   59.714070    0.944176
151.095516    21.497885    1719.397
0.50000    11.097482   59.727130    0.944176
151.060561    21.865577    1724.861
0.75000    11.097482   59.740864    0.944176
151.028346    22.375669    1758.882
1.00000    11.097482   59.756414    0.944176
150.998435    23.053462    1809.936

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -3.923693   -84.769793    -1.447056
-150.047844    -4.002303   -432.007383
0.25000   -3.923693   -84.754160    -1.447056
-150.078276    -3.915269   -410.912854
0.50000   -3.923693   -84.740239    -1.447056
-150.111464    -3.837647   -389.819229
0.75000   -3.923693   -84.726868    -1.447056
-150.146491    -3.779121   -368.729398
1.00000   -3.923693   -84.714306    -1.447056
-150.187917    -3.740390   -347.639660

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    8.071281   80.187458    2.371289
253.500991    22.695077    2829.111
0.25000    8.071281   80.199586    2.371289
253.459892    21.696976    2823.249
0.50000    8.071281   80.212646    2.371289
253.424637    21.037642    2840.570
0.75000    8.071281   80.226380    2.371289
253.392422    20.781372    2889.151
1.00000    8.071281   80.241930    2.371289
253.362511    21.527300    2960.838

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -9.802051  -119.798031    -2.951896
-233.154168    -7.172048   -815.762921
0.25000   -9.802051  -119.782398    -2.951896
-233.184600    -16.653749   -777.075678
0.50000   -9.802051  -119.768476    -2.951896
-233.217789    -16.453662   -738.389276
0.75000   -9.802051  -119.755106    -2.951896
-233.252815    -16.606970   -699.706364
1.00000   -9.802051  -119.744343    -2.951896
-233.294242    -17.080019   -661.023462

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    9.383496   193.073510    4.720167
386.303439    78.419802    4604.542
0.25000    9.383496   213.951803    4.720167
358.867999    77.043376    4675.083
0.50000    9.383496   236.548967    4.720167
328.215529    76.657824    4727.254
0.75000    9.383496   260.404727    4.720167
304.935181    77.769943    4771.247
1.00000    9.383496   286.109490    4.720167
304.935181    79.996824    4803.152

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -17.124220  -352.417293    -6.004142
-313.068413    -20.780671    -1116.642
0.25000   -17.124220  -326.547049    -6.004142
-313.071693    -19.708898    -1062.336
0.50000   -17.124220  -302.308303    -6.004142
-341.143966    -18.924150    -1008.031
0.75000   -17.124220  -279.098578    -6.004142
-371.030665    -18.460797   -953.727953
1.00000   -17.124220  -257.375127    -6.004142
-397.738031    -18.286963   -899.435548
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

Page
<          MOVING          LOAD          >
804

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    8.976582   166.514496    6.130209
369.407402    65.946004    4418.655
0.25000    8.976582   183.904773    6.130209
346.555442    64.657660    4482.943
0.50000    8.976582   202.726758    6.130209
321.023905    64.351724    4532.142
0.75000    8.976582   222.597073    6.130209
301.632871    65.129031    4575.519
1.00000    8.976582   244.007490    6.130209
301.632871    67.111947    4608.721

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -16.228439  -304.496024    -6.759547
-291.425920    -50.351221    -1205.988
0.25000   -16.228439   -282.948673    -6.759547
-291.428652    -49.100572    -1149.045
0.50000   -16.228439   -262.759355    -6.759547
-314.811052    -48.555963    -1092.104
0.75000   -16.228439   -243.427146    -6.759547
-339.704752    -48.797156    -1035.185
1.00000   -16.228439   -225.332907    -6.759547
-361.950272    -49.731440   -978.275289

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    1.854363    7.612384    3.419705
68.360286    3.008364   844.530214
0.25000    1.854363    7.624518    3.419705
68.318814    2.247796   852.347511
0.50000    1.854363    7.637583    3.419705
68.283801    1.510098   860.613131
0.75000    1.854363    7.651323    3.419705
68.251495    0.828609   869.373874
1.00000    1.854363    7.666883    3.419705
68.221530    0.891626   878.880653

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -2.299199   -14.860425    -2.691155
-41.883451    -54.901415   -418.558030
0.25000   -2.299199   -14.844782    -2.691155
-41.913968    -54.440941   -401.047192
0.50000   -2.299199   -14.830854    -2.691155
-41.947213    -54.716737   -383.558159
0.75000   -2.299199   -14.817478    -2.691155
-41.982297    -55.764645   -366.080439
1.00000   -2.299199   -14.804910    -2.691155
-42.023798    -57.512333   -348.602720

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    3.158608   22.817733    5.664543
150.844712    7.262220    1731.811
0.25000    3.158608   22.829861    5.664543
150.803313    5.488879    1746.460
0.50000    3.158608   22.842921    5.664543
150.768358    3.801646    1763.371
0.75000    3.158608   22.856654    5.664543
150.736143    2.406413    1784.288
1.00000    3.158608   22.872204    5.664543
150.706232    2.448226    1807.288

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -10.496932   -40.782346    -4.733285
-106.158417    -81.340355   -755.229384
0.25000   -10.496932   -40.766713    -4.733285
-106.188849    -79.946308   -722.595703
0.50000   -10.496932   -40.752792    -4.733285
-106.222038    -79.918421   -689.981092
0.75000   -10.496932   -40.739431    -4.733285
-106.257064    -81.436331   -657.385373
1.00000   -10.496932   -40.726859    -4.733285
-106.298491    -84.237682   -624.789655
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

Page
<          MOVING          LOAD          >
805

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    4.414628   55.776602    5.145063
251.851707    12.598231    2875.585
0.25000    4.414628   55.787517    5.145063
251.814448    11.048232    2888.913
0.50000    4.414628   55.799271    5.145063
251.782989    9.726145    2914.742
0.75000    4.414628   55.811630    5.145063
251.753995    8.795032    2954.451
1.00000    4.414628   55.825626    5.145063
251.727075    9.267269    3006.643

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -9.319926   -90.951472    -4.716507
-203.146238    -69.584575    -1046.263
0.25000   -9.319926   -90.937402    -4.716507
-203.773627    -68.686320   -999.276686
0.50000   -9.319926   -90.924872    -4.716507
-203.803496    -68.816662   -952.306765
0.75000   -9.319926   -90.912839    -4.716507
-203.835020    -70.052309   -905.354754
1.00000   -9.319926   -90.901533    -4.716507
-203.872304    -72.295710   -858.402742

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    11.198274   133.864234    6.028087
383.323185    49.234463    4007.496
0.25000    11.198274   146.161970    6.028087
348.486670    47.755464    4053.775
0.50000    11.198274   159.437728    6.028087
321.079079    46.881309    4094.702
0.75000    11.198274   173.424661    6.028087
297.583221    46.944620    4139.537
1.00000    11.198274   188.887634    6.028087
273.997126    48.529456    4181.332

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -12.901314   -242.124075    -6.290380
-250.365323    -61.758708    -1190.017
0.25000   -12.901314   -226.570687    -6.290380
-275.413393    -60.685945    -1134.798
0.50000   -12.901314   -212.375754    -6.290380
-298.626099    -61.471693    -1079.593
0.75000   -12.901314   -198.762839    -6.290380
-325.168497    -61.180884    -1024.405
1.00000   -12.901314   -185.996491    -6.290380
-361.745212    -62.733963    -969.219288

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    8.911750   127.705160    3.570023
200.070436    96.790517    2751.251
0.25000    8.911750   144.785654    3.570023
205.061995    96.842511    2822.234
0.50000    8.911750   163.337714    3.570023
208.983490    97.554802    2859.803
0.75000    8.911750   182.907712    3.570023
211.767592    99.025801    2863.382
1.00000    8.911750   203.012066    3.570023
213.483746    101.147218    2833.314

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -23.311115   -251.439828    -5.099852
-285.898116    -10.966063   -628.855062
0.25000   -23.311115   -230.027061    -5.099852
-282.281651    -9.863700   -596.786370
0.50000   -23.311115   -209.044438    -5.099852
-277.595827    -8.771806   -564.656780
0.75000   -23.311115   -188.992252    -5.099852
-271.771198    -7.695134   -532.549322
1.00000   -23.311115   -170.317954    -5.099852
-264.879328    -6.655860   -500.481504
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

Page
<          MOVING          LOAD          >
806

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    19.587076   197.330262    5.094991
298.019910    136.186905    4581.404
0.25000    19.587076   218.221183    5.094991
301.102876    136.598323    4657.514
0.50000    19.587076   240.926433    5.094991
302.624522    137.766251    4703.643
0.75000    19.587076   264.916168    5.094991
302.725322    139.851140    4724.714
1.00000    19.587076   289.609951    5.094991
302.725322    142.671109    4715.088

COMB DL-G1-2 ---------- MIN
```

```
 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -30.122986 -369.940171   -7.179631
-396.035674  -17.768082  -1119.119
 0.25000   -30.122986 -343.706554   -7.179631
-395.805550  -16.037698  -1062.654
 0.50000   -30.122986 -318.069396   -7.179631
-394.014939  -14.383199  -1006.170
 0.75000   -30.122986 -293.609510   -7.179631
-390.802372  -13.201340  -949.722921
 1.00000   -30.122986 -270.868261   -7.179631
-387.489281  -12.149847  -893.230210

 COMB DL-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   17.353824  203.842522    5.057784
360.805568  124.188134    5568.925
 0.25000   17.353824  223.033022    5.057784
363.142378  124.302843    5648.045
 0.50000   17.353824  243.894188    5.057784
364.246356  125.215309    5699.280
 0.75000   17.353824  265.938288    5.057784
364.263703  127.056386    5726.481
 1.00000   17.353824  288.634505    5.057784
364.263703  129.746708    5725.248

 COMB DL-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -30.550704 -386.065365   -7.146561
-432.559001  -21.022519  -1497.569
 0.25000  -30.550704 -361.962361   -7.146561
-432.499766  -18.957125  -1423.653
 0.50000  -30.550704 -338.411473   -7.146561
-431.208464  -17.419742  -1349.719
 0.75000  -30.550704 -315.946506   -7.146561
-428.829657  -16.291560  -1275.777
 1.00000  -30.550704 -295.064257   -7.146561
-426.433612  -15.370684  -1201.896

 COMB DL-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   16.228539  179.450014    6.291666
361.528337  106.369899    5469.241
 0.25000   16.228539  195.446169    6.291666
363.476175  105.928024    5538.214
 0.50000   16.228539  212.834900    6.291666
364.396391  106.253950    5585.958
 0.75000   16.228539  231.209660    6.291666
364.410850  107.456510    5609.677
 1.00000   16.228539  250.127989    6.291666
364.410850  109.443788    5611.877

 COMB DL-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -31.108946 -344.551144   -7.661972
-394.559646  -48.348497  -1598.987
 0.25000  -31.108946 -324.460194   -7.661972
-394.510271  -46.437155  -1522.044
 0.50000  -31.108946 -304.829458   -7.661972
-393.433911  -45.196952  -1445.116
 0.75000  -31.108946 -286.103886   -7.661972
-391.451068  -44.695618  -1368.159
 1.00000  -31.108946 -268.697581   -7.661972
-389.453855  -44.685414  -1291.247
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING              LOAD              >
                                     807

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.779765   56.973178    1.028533
132.324997   28.903857    1923.800
 0.25000   10.779765   56.979632    1.028533
132.306786   29.147907    1918.352
 0.50000   10.779765   56.986702    1.028533
132.289363   29.560729    1924.001
 0.75000   10.779765   56.994231    1.028533
132.273145   30.075414    1945.004
 1.00000   10.779765   57.002070    1.028533
132.258570   30.718164    1976.794

 COMB DL-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.049574  -90.309567   -1.455962
-142.653479   -6.548461  -558.805050
 0.25000   -6.049574  -90.301372   -1.455962
-142.668354   -5.960355  -531.513997
 0.50000   -6.049574  -90.293450   -1.455962
-142.684873   -5.644474  -504.222862
 0.75000   -6.049574  -90.285960   -1.455962
-142.702609   -5.604417  -476.900077
 1.00000   -6.049574  -90.279056   -1.455962
-142.721127   -5.667893  -449.651482

 COMB DL-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.552715   79.387091    2.273081
228.776379   28.306572    3317.936
 0.25000    9.552715   79.393545    2.273081
228.758160   27.811386    3321.356
 0.50000    9.552715   79.400616    2.273081
228.740729   27.625927    3335.064
 0.75000    9.552715   79.408146    2.273081
228.724504   27.717246    3363.590
 1.00000    9.552715   79.415986    2.273081
228.709923   28.112249    3402.047

 COMB DL-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.254108 -136.638934   -2.792300
-213.576818  -21.670003  -1066.569
 0.25000  -12.254108 -136.630738   -2.792300
-213.591699  -20.625788  -1015.856
 0.50000  -12.254108 -136.622815   -2.792300
-213.608226  -19.938515  -965.136137
 0.75000  -12.254108 -136.615324   -2.792300
-213.625969  -19.870520  -914.396454
 1.00000  -12.254108 -136.608420   -2.792300
-213.644495  -20.167000  -863.703529

 COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   15.770232  168.874556    4.506251
356.442891   91.936598    5100.154
 0.25000   15.770232  185.841365    4.506251
325.117205   91.983554    5171.706
 0.50000   15.770232  204.356892    4.506251
294.924369   92.568112    5217.919
 0.75000   15.770232  224.003543    4.506251
270.630539   93.651781    5240.874
 1.00000   15.770232  244.350571    4.506251
268.683074   95.142313    5237.959

 COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -24.740950 -333.562788   -5.999918
-299.596128  -26.939516  -1459.824
 0.25000  -24.740950 -312.134433   -5.999918
-302.765173  -25.529926  -1388.803
 0.50000  -24.740950 -291.311312   -5.999918
-330.073639  -24.454639  -1317.744
 0.75000  -24.740950 -271.535260   -5.999918
-361.500752  -23.874978  -1246.647
 1.00000  -24.740950 -253.226305   -5.999918
-394.034236  -23.607503  -1175.624
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING              LOAD              >
                                     808

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.893307  148.671891    6.054183
355.148793   78.115114    5033.101
 0.25000   14.893307  162.806467    6.054183
329.052236   77.797435    5094.731
 0.50000   14.893307  178.231237    6.054183
303.899424   78.058024    5135.273
 0.75000   14.893307  194.598316    6.054183
283.660910   78.868056    5156.394
 1.00000   14.893307  211.548859    6.054183
282.038531   80.165893    5156.213

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -23.026853 -297.848947   -6.666708
-277.287692  -59.648646  -1575.430
 0.25000  -23.026853 -279.997581   -6.666708
-279.927735  -58.601891  -1500.966
 0.50000  -23.026853 -262.650418   -6.666708
-302.677658  -58.158413  -1426.472
 0.75000  -23.026853 -246.175539   -6.666708
-328.858712  -58.480327  -1351.990
 1.00000  -23.026853 -230.922858   -6.666708
-355.961453  -59.341300  -1277.517

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.457492   11.304465    3.708875
87.426104    3.579240    1145.638
 0.25000    3.457492   11.310921    3.708875
87.407860    2.605043    1147.799
 0.50000    3.457492   11.317994    3.708875
87.390407    1.897486    1149.957
 0.75000    3.457492   11.325526    3.708875
87.374159    1.462772    1152.112
 1.00000    3.457492   11.333368    3.708875
87.359558    1.401122    1154.544

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -2.761255  -28.541274   -2.546256
-38.158218  -63.020055  -550.719399
 0.25000   -2.761255  -28.533076   -2.546256
-38.173119  -63.196087  -527.552393
 0.50000   -2.761255  -28.525151   -2.546256
-38.189667  -63.933255  -504.387501
 0.75000   -2.761255  -28.517658   -2.546256
-38.207433  -65.266139  -480.854940
 1.00000   -2.761255  -28.510752   -2.546256
-38.225983  -67.058775  -457.594812

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.385766   27.816647    5.904174
169.729718    8.304750    2274.388
 0.25000    5.385766   27.823098    5.904174
169.711531    6.491053    2281.589
 0.50000    5.385766   27.830165    5.904174
169.694139    5.065267    2288.973
 0.75000    5.385766   27.837691    5.904174
169.677950    4.069610    2296.672
 1.00000    5.385766   27.845527    5.904174
169.663403    3.669253    2305.086

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.167840  -63.907043   -4.605375
-93.362698  -92.010907  -999.463450
 0.25000  -11.167840  -63.898851   -4.605375
-93.377546  -91.225702  -954.854066
 0.50000  -11.167840  -63.890932   -4.605375
-93.394037  -91.415172  -911.461520
 0.75000  -11.167840  -63.883444   -4.605375
-93.411745  -92.939248  -868.180292
 1.00000  -11.167840  -63.876543   -4.605375
-93.430228  -95.377399  -824.755576
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING              LOAD              >
                                     809

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   7.555890   59.802099    5.270953
253.783620   16.376461    3590.615
 0.25000   7.555890   59.871781    5.270953
253.587207   15.140458    3601.773
 0.50000   7.555890   59.948110    5.270953
253.399293   14.337150    3616.719
 0.75000   7.555890   60.029406    5.270953
253.224371   13.894620    3636.353
 1.00000   7.555890   60.114038    5.270953
253.067194   13.923105    3659.900

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.851285 -119.478835   -4.420210
-182.037076  -80.907204  -1367.189
 0.25000  -11.851285 -119.390349   -4.420210
-182.197507  -80.596796  -1305.556
 0.50000  -11.851285 -119.304817   -4.420210
-182.375688  -81.111659  -1243.879
 0.75000  -11.851285 -119.223943   -4.420210
-182.567017  -82.454855  -1182.248
 1.00000  -11.851285 -119.149405   -4.420210
-182.766719  -84.456618  -1120.719

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   15.312603  123.471511    6.151908
365.885775   99.112131    4664.078
 0.25000   15.312603  133.734367    6.151908
341.448062   58.389139    4709.050
 0.50000   15.312603  144.957421    6.151908
318.018513   58.277800    4741.032
 0.75000   15.312603  156.890091    6.151908
296.291435   58.577731    4762.126
 1.00000   15.312603  169.283884    6.151908
276.985791   59.421360    4770.101

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.416431 -248.384102   -6.112309
-248.668325  -73.298808  -1554.890
 0.25000  -18.416431 -235.382363   -6.112309
-268.602114  -72.557728  -1482.582
 0.50000  -18.416431 -222.787298   -6.112309
-290.933581  -72.587011  -1410.244
 0.75000  -18.416431 -210.853182   -6.112309
-314.966071  -73.471837  -1337.933
 1.00000  -18.416431 -199.831501   -6.112309
-339.988431  -74.971492  -1265.686

 COMB     DB -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.551955  236.678675    6.497761
394.877838  117.279851    5120.145
 0.25000   14.551955  261.818479    6.497761
394.877838  116.428739    5198.962
 0.50000   14.551955  291.071499    6.497761
394.877838  117.026320    5255.930
 0.75000   14.551955  322.071724    6.497761
394.877838  119.163790    5303.347
 1.00000   14.551955  353.852954    6.497761
394.877838  122.762732    5336.335

 COMB     DB -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -21.500140 -420.552045   -7.533125
-430.184663  -81.340355  -1224.843
 0.25000  -21.500140 -391.097273   -7.533125
-430.184663  -79.946308  -1165.935
 0.50000  -21.500140 -362.124510   -7.533125
-430.184663  -79.918421  -1107.028
 0.75000  -21.500140 -334.457410   -7.533125
-430.184663  -81.436331  -1048.140
 1.00000  -21.500140 -308.653124   -7.533125
-430.184663  -84.437682  -989.261385
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING              LOAD              >
                                     810

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     DL -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.587076  203.842522    6.291666
365.885775  136.186905    5568.925
 0.25000   19.587076  223.033022    6.291666
363.476175  136.598323    5648.045
 0.50000   19.587076  243.894188    6.291666
364.396391  137.766251    5699.280
 0.75000   19.587076  265.938288    6.291666
364.410850  139.851140    5726.481
 1.00000   19.587076  289.609951    6.291666
364.410850  142.671109    5725.248

 COMB     DL -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -31.108946 -386.065365   -7.661972
-432.559001  -92.010907  -1598.987
 0.25000  -31.108946 -361.962361   -7.661972
-432.499766  -91.225702  -1522.044
 0.50000  -31.108946 -338.411473   -7.661972
-431.208464  -91.415172  -1445.116
 0.75000  -31.108946 -315.946506   -7.661972
-428.829657  -92.939248  -1368.159
 1.00000  -31.108946 -295.064257   -7.661972
-426.433612  -95.377399  -1291.247

 COMB     CAR -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.587076  236.678675    6.497761
394.877838  136.186905    5568.925
 0.25000   19.587076  261.818479    6.497761
394.877838  136.598323    5648.045
 0.50000   19.587076  291.071499    6.497761
394.877838  137.766251    5699.280
 0.75000   19.587076  322.071724    6.497761
394.877838  139.851140    5726.481
 1.00000   19.587076  353.852954    6.497761
394.877838  142.671109    5725.248

 COMB     CAR -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -31.108946 -420.552045   -7.661972
-432.559001  -92.010907  -1598.987
 0.25000  -31.108946 -391.097273   -7.661972
-432.499766  -91.225702  -1522.044
 0.50000  -31.108946 -362.124510   -7.661972
-431.208464  -91.415172  -1445.116
 0.75000  -31.108946 -334.457410   -7.661972
-430.184663  -92.939248  -1368.159
 1.00000  -31.108946 -308.653124   -7.661972
-430.184663  -95.377399  -1291.247

 COMB  DESIGN -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.587076  236.678675    6.497761
394.877838  136.186905    5568.925
 0.25000   19.587076  261.818479    6.497761
394.877838  136.598323    5648.045
 0.50000   19.587076  291.071499    6.497761
394.877838  137.766251    5699.280
 0.75000   19.587076  322.071724    6.497761
394.877838  139.851140    5726.481
 1.00000   19.587076  353.852954    6.497761
394.877838  142.671109    5725.248

 COMB  DESIGN -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -31.108946 -420.552045   -7.661972
-432.559001  -92.010907  -1598.987
 0.25000  -31.108946 -391.097273   -7.661972
-432.499766  -91.225702  -1522.044
 0.50000  -31.108946 -362.124510   -7.661972
-431.208464  -91.415172  -1445.116
 0.75000  -31.108946 -334.457410   -7.661972
-430.184663  -92.939248  -1368.159
 1.00000  -31.108946 -308.653124   -7.661972
-430.184663  -95.377399  -1291.247
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING              LOAD              >
                                     811

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      49 ========== LENGTH =    4.987455

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.930079  176.214510    6.224695
344.713280   88.676455    2792.239
 0.25000    3.930079  197.978494    6.224695
344.713280   84.116566    2832.889
 0.50000    3.930079  221.687713    6.224695
344.713280   80.487914    2841.160
 0.75000    3.930079  246.838869    6.224695
344.713280   77.866412    2812.861
 1.00000    3.930079  271.996542    6.224695
344.713280   76.186069    2746.706

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.165422 -271.060338   -1.754614
-143.626459   -3.042679  -382.171081
 0.25000  -14.165422 -245.646083   -1.754614
-143.626459   -2.464705  -359.826231
 0.50000  -14.165422 -219.903120   -1.754614
-143.626459   -1.912415  -337.481381
 0.75000  -14.165422 -195.277998   -1.754614
-143.626459   -2.379151  -315.136531
 1.00000  -14.165422 -172.273731   -1.754614
-143.626459   -3.164122  -292.791681

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.292216  268.642515    7.909984
480.272588  122.855177    4577.100
 0.25000   14.292216  296.085694    7.909984
480.272588  117.925500    4588.959
 0.50000   14.292216  325.886588    7.909984
480.272588  114.444503    4576.261
 0.75000   14.292216  357.443855    7.909984
480.272588  112.496810    4539.667
 1.00000   14.292216  389.802646    7.909984
480.272588  112.222071    4471.681

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.242380 -379.755261   -5.428647
-218.813940   -6.387386  -683.343095
 0.25000  -18.242380 -347.094982   -5.428647
-218.813940   -5.449680  -643.443562
 0.50000  -18.242380 -314.838709   -5.428647
-218.813940   -4.552550  -603.544029
 0.75000  -18.242380 -283.947077   -5.428647
-218.813940   -3.713867  -563.644496
 1.00000  -18.242380 -255.017739   -5.428647
-218.813940   -2.946016  -523.744963

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.593715  281.796106    7.386957
506.475942  110.141858    5335.942
 0.25000   10.593715  306.993977    7.386957
506.475942  105.869840    5324.185
 0.50000   10.593715  334.351630    7.386957
506.475942  102.978203    5292.666
 0.75000   10.593715  363.317103    7.386957
506.475942  101.568476    5242.350
 1.00000   10.593715  393.078608    7.386957
506.475942  101.691142    5166.228

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.577615 -366.209934   -4.980442
-305.118748   -7.891207  -910.694520
 0.25000  -18.577615 -336.173171   -4.980442
-305.118748   -6.928924  -857.660332
 0.50000  -18.577615 -306.569357   -4.980442
-305.118748   -5.991493  -804.626144
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING              LOAD              >
                                     812

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000  -18.577615 -278.214888   -4.980442
-305.118748   -5.092965  -751.591957
 1.00000  -18.577615 -251.658482   -4.980442
-305.118748   -4.243990  -698.557769

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.650389  253.445564    8.511158
443.687232   92.706256    5123.519
 0.25000    9.650389  274.453926    8.511158
443.687232   89.013237    5091.937
 0.50000    9.650389  297.262825    8.511158
443.687232   86.496856    5059.660
 0.75000    9.650389  321.412077    8.511158
443.687232   85.299679    5004.533
 1.00000    9.650389  346.226793    8.511158
443.687232   85.767217    4928.455

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -21.562598 -315.784601   -6.301235
-339.104487  -33.435478  -785.167729
 0.25000  -21.562598 -290.740440   -6.301235
-339.104487  -34.603176  -931.747259
 0.50000  -21.562598 -266.059083   -6.301235
-339.104487  -33.435478  -874.326789
 0.75000  -21.562598 -242.419242   -6.301235
-339.104487  -33.047774  -816.906318
 1.00000  -21.562598 -220.278401   -6.301235
-339.104487  -33.324799  -759.485848

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.329283   77.465465    0.898206
162.787964   22.770609    1809.932
 0.25000   11.329283   77.477795    0.898206
162.746526   23.168205    1758.281
 0.50000   11.329283   77.491056    0.898206
162.711445   23.819931    1727.263
 0.75000   11.329283   77.504993    0.898206
162.682010   24.524087    1717.197
 1.00000   11.329283   77.520754    0.898206
162.647446   26.510662    1731.981

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.715884  -62.406903   -3.392914
-134.046112   -3.608878  -347.580088
 0.25000   -3.715884  -62.391047   -3.392914
-134.074805   -3.296921  -327.362161
 0.50000   -3.715884  -62.376882   -3.392914
-134.106930   -2.997830  -307.144234
 0.75000   -3.715884  -62.363247   -3.392914
-134.140504   -2.693237  -286.926307
 1.00000   -3.715884  -62.350398   -3.392914
-134.180860   -2.403367  -266.708380

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.036372  113.353618    2.576581
218.789440   20.937118    2960.921
 0.25000    8.036372  113.365948    2.576581
218.748001   21.170423    2885.310
 0.50000    8.036372  113.379208    2.576581
218.712920   21.793574    2832.040
 0.75000    8.036372  113.393145    2.576581
218.679685   22.972622    2807.069
 1.00000    8.036372  113.408906    2.576581
218.648921   24.841077    2804.403

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.591137  -79.947385   -4.084848
-255.570073  -16.914305  -661.013078
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING              LOAD              >
                                     813

 F R A M E   E L E M E N T   I N T E R N A
```

L FORCES

REL DIST P V2 V3
T M2 M3
0.25000 -9.591137 -79.931528 -4.084848
-255.598766 -16.115735 -622.690392
0.50000 -9.591137 -79.917363 -4.084848
-255.630891 -15.662432 -584.367707
0.75000 -9.591137 -79.903729 -4.084848
-255.664465 -15.647095 -546.045021
1.00000 -9.591137 -79.890880 -4.084848
-255.704821 -15.992073 -507.722336

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.389946 237.812514 6.246680
434.949974 79.567521 4803.110
0.25000 9.389946 259.077336 6.246680
408.053295 77.195835 4783.426
0.50000 9.389946 282.060503 6.246680
377.978346 75.779501 4747.429
0.75000 9.389946 306.308200 6.246680
351.092806 75.804557 4695.767
1.00000 9.389946 332.419029 6.246680
351.090018 77.093586 4622.148

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.982660 -300.034285 -5.608569
-259.540451 -17.835650 -899.304225
0.25000 -16.982660 -273.723364 -5.608569
-259.540451 -16.658821 -847.026036
0.50000 -16.982660 -249.006627 -5.608569
-279.619687 -15.803350 -794.747847
0.75000 -16.982660 -225.276533 -5.608569
-309.756690 -15.359938 -742.469658
1.00000 -16.982660 -202.986509 -5.608569
-336.578077 -15.267874 -690.191468

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.784318 213.748879 6.833745
385.394544 66.938541 4608.808
0.25000 8.784318 231.461110 6.833745
362.991339 64.841501 4578.401
0.50000 8.784318 250.604611 6.833745
337.940839 63.548594 4534.687
0.75000 8.784318 270.801385 6.833745
315.546911 63.614935 4478.220
1.00000 8.784318 292.550028 6.833745
315.544589 64.868610 4404.052

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.137494 -260.532997 -7.101089
-296.648980 -49.623101 -978.263868
0.25000 -16.137494 -238.617690 -7.101089
-296.648980 -47.436986 -921.594946
0.50000 -16.137494 -218.030236 -7.101089
-313.373693 -45.999412 -864.926024
0.75000 -16.137494 -198.264593 -7.101089
-338.475881 -45.448989 -808.257103
1.00000 -16.137494 -179.698434 -7.101089
-360.816373 -45.666469 -751.588181

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.546337 22.501632 1.917733
39.290309 0.930316 879.075866
0.25000 1.546337 22.513568 1.917733
39.248797 0.706036 858.143263
0.50000 1.546337 22.527234 1.917733
39.213658 0.697192 837.749937
0.75000 1.546337 22.541177 1.917733
39.180366 0.991340 817.576692
1.00000 1.546337 22.556948 1.917733
39.149544 1.299796 798.114339
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
814

F R A M E E L E M E N T I N T E R N A
L FORCES

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.982527 -16.167801 -3.991194
-121.069033 -57.988805 -348.762872
0.25000 -1.982527 -16.151934 -3.991194
-121.097954 -55.731139 -328.824130
0.50000 -1.982527 -16.137764 -3.991194
-121.180133 -54.517190 -308.885388
0.75000 -1.982527 -16.124123 -3.991194
-121.163762 -53.353134 -288.946646
1.00000 -1.982527 -16.111269 -3.991194
-121.204234 -53.228602 -269.007905

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.725261 50.935627 5.012632
76.615960 2.651792 1807.588
0.25000 2.725261 50.947956 5.012632
76.574521 2.396484 1767.545
0.50000 2.725261 50.961217 5.012632
76.539440 2.340009 1729.503
0.75000 2.725261 50.975154 5.012632
76.506205 2.896381 1694.280
1.00000 2.725261 50.990915 5.012632
76.475441 3.753007 1661.364

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.292587 -30.752206 -6.288521
-228.192513 -84.934710 -625.017020
0.25000 -10.292587 -30.736350 -6.288521
-228.221207 -81.737732 -589.157504
0.50000 -10.292587 -30.722185 -6.288521
-228.253332 -79.911921 -553.297989
0.75000 -10.292587 -30.708550 -6.288521
-228.286905 -79.733886 -517.438474
1.00000 -10.292587 -30.695701 -6.288521
-228.327261 -81.044027 -481.578959

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.969280 96.019245 3.861439
178.018878 8.993289 3006.925
0.25000 3.969280 96.030342 3.861439
177.981584 8.965401 2938.655
0.50000 3.969280 96.042276 3.861439
177.950011 9.274691 2881.571
0.75000 3.969280 96.054819 3.861439
177.922099 10.325995 2836.877
1.00000 3.969280 96.069004 3.861439
177.892411 11.797787 2803.007

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.847994 -62.100656 -6.187765
-315.623169 -72.648300 -858.582392
0.25000 -8.847994 -62.086385 -6.187765
-315.648994 -69.819236 -809.117796
0.50000 -8.847994 -62.073637 -6.187765
-315.677906 -68.044823 -759.653201
0.75000 -8.847994 -62.061365 -6.187765
-315.708122 -67.434467 -710.188605
1.00000 -8.847994 -62.049802 -6.187765
-315.744443 -67.855837 -660.724010

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.976061 180.209506 5.610546
372.447827 48.220626 4181.565
0.25000 10.976061 192.723274 5.610546
335.763453 47.113839 4134.640
0.50000 10.976061 206.214137 5.610546
309.339513 46.648757 4083.528
0.75000 10.976061 220.419259 5.610546
286.111773 47.548991 4030.270
1.00000 10.976061 236.108270 5.610546
261.045932 49.248369 3969.874
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
815

F R A M E E L E M E N T I N T E R N A
L FORCES

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.436139 -203.523036 -7.994624
-312.993484 -62.858464 -969.279358
0.25000 -12.436139 -187.726796 -7.994624
-324.725226 -60.155350 -913.241532
0.50000 -12.436139 -173.268345 -7.994624
-344.444391 -58.334191 -857.203705
0.75000 -12.436139 -159.368663 -7.994624
-372.124301 -57.568984 -801.165878
1.00000 -12.436139 -146.291103 -7.994624
-406.886406 -57.726178 -745.128051

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.204407 146.282150 6.138425
333.923802 100.578406 2832.953
0.25000 8.204407 164.235904 6.138425
342.530996 94.534050 2855.892
0.50000 8.204407 183.674639 6.138425
350.955124 89.111409 2844.692
0.75000 8.204407 204.149716 6.138425
358.356313 84.416031 2798.750
1.00000 8.204407 225.188519 6.138425
364.699642 80.397822 2718.430

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -23.132571 -224.045100 -1.932881
-160.203436 -5.141198 -500.350108
0.25000 -23.132571 -203.180823 -1.932881
-160.203436 -4.207018 -470.910173
0.50000 -23.132571 -182.754042 -1.932881
-160.020317 -3.838151 -441.508267
0.75000 -23.132571 -163.257319 -1.932881
-158.814406 -3.786690 -412.182187
1.00000 -23.132571 -145.142134 -1.932881
-156.550542 -3.829904 -382.922839

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.861064 232.381323 7.793790
467.076742 141.252626 4714.948
0.25000 18.861064 254.305954 7.793790
470.389513 135.558282 4705.390
0.50000 18.861064 278.061694 7.793790
473.702395 130.570476 4662.318
0.75000 18.861064 303.123489 7.793790
477.015055 126.444629 4593.790
1.00000 18.861064 328.933221 7.793790
480.001044 123.033135 4493.880

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -29.588198 -321.607300 -5.225419
-251.533383 -10.265302 -893.085668
0.25000 -29.588198 -296.035734 -5.225419
-251.533383 -8.721817 -840.626296
0.50000 -29.588198 -271.060778 -5.225419
-251.533383 -7.206713 -788.324504
0.75000 -29.588198 -247.266938 -5.225419
-251.533383 -5.720148 -736.010462
1.00000 -29.588198 -225.179446 -5.225419
-251.206690 -4.883611 -683.728122

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.559248 252.616795 7.580236
481.834239 128.412202 5725.206
0.25000 16.559248 272.754048 7.580236
484.230053 122.772317 5687.934
0.50000 16.559248 294.576582 7.580236
486.625968 118.001040 5620.767
0.75000 16.559248 317.602446 7.580236
489.021680 114.144708 5528.449
1.00000 16.559248 341.320616 7.580236
491.239190 111.335462 5407.115
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
816

F R A M E E L E M E N T I N T E R N A
L FORCES

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -29.897579 -322.878862 -5.229729
-332.161690 -13.838743 -1201.699
0.25000 -29.897579 -299.380657 -5.229729
-332.161690 -11.686692 -1131.462
0.50000 -29.897579 -276.437092 -5.229729
-332.161690 -9.779431 -1061.414
0.75000 -29.897579 -254.582475 -5.229729
-332.161690 -8.037463 -991.226432
1.00000 -29.897579 -234.298942 -5.229729
-331.983477 -7.042179 -921.072413

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.293764 232.880076 8.428405
427.989841 108.614899 5611.965
0.25000 15.293764 249.665392 8.428405
429.986861 103.415956 5559.004
0.50000 15.293764 267.855466 8.428405
431.983965 99.392748 5481.373
0.75000 15.293764 287.048571 8.428405
433.980900 96.296811 5382.992
1.00000 15.293764 306.818744 8.428405
435.829296 94.385939 5260.456

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -30.417611 -283.995593 -6.441563
-364.558152 -43.530961 -1291.150
0.25000 -30.417611 -264.408770 -6.441563
-364.558152 -41.100201 -1215.976
0.50000 -30.417611 -245.284265 -6.441563
-364.558152 -39.235971 -1140.968
0.75000 -30.417611 -227.067448 -6.441563
-364.558152 -37.983787 -1065.844
1.00000 -30.417611 -210.160201 -6.441563
-364.409603 -37.733018 -990.746993

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.854783 76.276876 1.030502
135.696719 29.899093 1976.814
0.25000 10.854783 76.283600 1.030502
135.677670 30.640600 1928.729
0.50000 10.854783 76.290947 1.030502
135.659418 31.567950 1887.777
0.75000 10.854783 76.298756 1.030502
135.642375 32.605936 1862.044
1.00000 10.854783 76.306888 1.030502
135.626976 33.927556 1847.360

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.705832 -66.646841 -3.092346
-134.935791 -5.455457 -449.581330
0.25000 -5.705832 -66.638824 -3.092346
-134.949809 -4.860720 -423.366159
0.50000 -5.705832 -66.631081 -3.092346
-134.965480 -4.278013 -397.158906
0.75000 -5.705832 -66.623771 -3.092346
-134.982375 -3.702990 -370.941234
1.00000 -5.705832 -66.617049 -3.092346
-135.000055 -3.188816 -344.714793

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.348133 116.881875 2.664655
186.017674 27.666232 3402.189
0.25000 9.348133 116.888600 2.664655
185.998618 27.513080 3322.636
0.50000 9.348133 116.895947 2.664655
185.980358 27.980637 3251.964
0.75000 9.348133 116.903757 2.664655
185.963309 28.789394 3195.564
1.00000 9.348133 116.911890 2.664655
185.947903 30.198580 3149.518
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
817

F R A M E E L E M E N T I N T E R N A
L FORCES

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.784916 -94.316379 -3.939512
-252.699660 -20.134126 -863.676286
0.25000 -11.784916 -94.308362 -3.939512
-252.713685 -18.921903 -813.668359
0.50000 -11.784916 -94.300618 -3.939512
-252.729364 -18.119219 -763.471445
0.75000 -11.784916 -94.293307 -3.939512
-252.746267 -17.730138 -713.285959
1.00000 -11.784916 -94.286585 -3.939512
-252.763955 -17.852586 -663.078014

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.268033 217.580866 6.245079
420.970958 94.068413 5237.885
0.25000 15.268033 235.317241 6.245079
386.837884 91.260004 5196.437
0.50000 15.268033 254.630211 6.245079
353.561050 89.179673 5127.882
0.75000 15.268033 275.070545 6.245079
324.446056 87.624907 5034.881
1.00000 15.268033 296.254227 6.245079
319.340677 86.824075 4915.835

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -24.041448 -273.719412 -5.550536
-275.004582 -22.596435 -1175.484
0.25000 -24.041448 -252.784079 -5.550536
-275.340377 -20.818815 -1107.096
0.50000 -24.041448 -232.456290 -5.550536
-298.460595 -19.404608 -1038.569
0.75000 -24.041448 -213.195098 -5.550536
-326.719219 -18.421381 -970.025372
1.00000 -24.041448 -195.395152 -5.550536
-356.045685 -17.811223 -901.554513

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.239594 202.286072 6.799537
378.872586 79.302554 5156.289
0.25000 14.239594 217.061753 6.799537
350.437272 76.676826 5099.532
0.50000 14.239594 233.150851 6.799537
322.715267 74.890359 5020.174
0.75000 14.239594 250.179125 6.799537
298.460375 73.681273 4920.778
1.00000 14.239594 267.826661 6.799537
294.207226 73.282185 4799.686

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -22.239334 -242.785562 -7.060326
-319.286398 -58.732309 -1277.478
0.25000 -22.239334 -225.345751 -7.060326
-319.566140 -55.903530 -1203.446
0.50000 -22.239334 -208.411235 -7.060326
-338.826950 -53.753360 -1129.276
0.75000 -22.239334 -192.365272 -7.060326
-362.366758 -52.201810 -1055.135
1.00000 -22.239334 -177.536612 -7.060326
-386.799487 -51.417457 -981.011692

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.203887 31.316909 2.002620
47.983905 1.323430 1154.768
0.25000 3.203887 31.323636 2.002620
47.964825 1.080059 1121.293
0.50000 3.203887 31.330985 2.002620
47.946543 1.090351 1087.869
0.75000 3.203887 31.338798 2.002620
47.929473 1.407005 1054.437
1.00000 3.203887 31.346933 2.002620
47.914047 1.873468 1021.346
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
818

F R A M E E L E M E N T I N T E R N A
L FORCES

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.353221 -22.612801 -4.065159
-139.669116 -67.501507 -457.730034
0.25000 -2.353221 -22.604781 -4.065159
-139.683162 -64.752318 -431.611477
0.50000 -2.353221 -22.597035 -4.065159
-139.698863 -62.512317 -405.445705
0.75000 -2.353221 -22.589722 -4.065159
-139.715790 -60.743321 -379.286105
1.00000 -2.353221 -22.582998 -4.065159
-139.733502 -59.391406 -353.100959

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.859898 63.495047 4.853479
87.122803 4.030557 2305.441
0.25000 4.859898 63.501769 4.853479
87.103786 3.278220 2244.114
0.50000 4.859898 63.509113 4.853479
87.085564 3.200370 2184.057
0.75000 4.859898 63.516920 4.853479
87.068557 3.720401 2124.547
1.00000 4.859898 63.525048 4.853479
87.053176 4.696502 2065.691

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.654593 -44.165414 -6.267892
-247.036158 -96.072874 -824.953469
0.25000 -10.654593 -44.157401 -6.267892
-247.050152 -92.715979 -777.606346
0.50000 -10.654593 -44.149660 -6.267892
-247.065794 -90.435049 -730.252254
0.75000 -10.654593 -44.142353 -6.267892
-247.082658 -89.533358 -682.872587
1.00000 -10.654593 -44.135633 -6.267892
-247.100304 -89.518033 -630.467007

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.114296 108.696307 4.028976
165.375205 13.731188 3660.262
0.25000 7.114296 108.768909 4.028976
165.169737 13.294097 3572.033
0.50000 7.114296 108.848233 4.028976
164.972854 13.492961 3486.915
0.75000 7.114296 108.932550 4.028976
164.789101 14.222436 3405.792
1.00000 7.114296 109.020342 4.028976
164.622921 15.595188 3329.151

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.130680 -81.389362 -6.336020
-328.945205 -84.902596 -1120.861
0.25000 -11.130680 -81.302813 -6.336020
-329.096418 -81.555796 -1056.372
0.50000 -11.130680 -81.219206 -6.336020
-329.265432 -78.985137 -991.711051
0.75000 -11.130680 -81.140683 -6.336020
-329.447644 -77.247478 -927.043955
1.00000 -11.130680 -81.067703 -6.336020
-329.638311 -76.421305 -862.388858

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.835854 177.319187 5.719787
350.733543 58.588370 4770.304
0.25000 14.835854 188.028036 5.719787
324.755567 57.394761 4700.353
0.50000 14.835854 199.708776 5.719787
299.756404 56.908129 4616.063
0.75000 14.835854 212.104255 5.719787
276.459547 56.947352 4520.067
1.00000 14.835854 224.981785 5.719787
255.567894 57.679314 4410.975
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
819

F R A M E E L E M E N T I N T E R N A
L FORCES

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.519962 -198.706259 -7.824676
-335.790633 -74.792902 -1285.710
0.25000 -17.519962 -185.995238 -7.824676
-354.112359 -71.441669 -1192.565
0.50000 -17.519962 -173.689625 -7.824676
-374.820885 -68.742646 -1119.237
0.75000 -17.519962 -162.050769 -7.824676
-397.265064 -66.819694 -1045.932
1.00000 -17.519962 -151.326061 -7.824676
-420.675353 -65.687656 -972.628390

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.292216 281.796106 8.511158
506.475942 122.855177 5335.942
0.25000 14.292216 306.993977 8.511158
506.475942 117.925500 5324.185
0.50000 14.292216 334.351630 8.511158
506.475942 114.444503 5292.666
0.75000 14.292216 363.317103 8.511158
506.475942 112.496810 5242.350
1.00000 14.292216 393.078608 8.511158
506.475942 112.222071 5166.228

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -21.562598 -379.755261 -7.994624
-339.104487 -84.934710 -989.167729
0.25000 -21.562598 -347.094982 -7.994624
-339.104487 -81.737732 -931.747259
0.50000 -21.562598 -314.838709 -7.994624
-344.444391 -79.911921 -874.326789
0.75000 -21.562598 -283.947077 -7.994624
-372.124301 -79.733886 -816.906318
1.00000 -21.562598 -255.017739 -7.994624
-406.886406 -81.044027 -759.485848

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.861064 252.616795 8.428405
481.834239 141.252626 5725.206
0.25000 18.861064 272.754048 8.428405
484.230053 135.558282 5687.934
0.50000 18.861064 294.576582 8.428405
486.625968 130.570476 5620.767
0.75000 18.861064 317.602446 8.428405
489.021680 126.444629 5528.449
1.00000 18.861064 341.320616 8.428405
491.239190 123.033135 5407.115

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -30.417611 -322.878862 -7.824676
-364.558152 -96.072874 -1291.150
0.25000 -30.417611 -299.380657 -7.824676
-364.558152 -92.715979 -1215.976
0.50000 -30.417611 -276.437092 -7.824676
-374.820885 -90.435049 -1140.968
0.75000 -30.417611 -254.582475 -7.824676
-397.265064 -89.533358 -1065.844
1.00000 -30.417611 -234.298942 -7.824676
-420.675353 -89.518033 -990.746993

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.861064 281.796106 8.511158

```
506.475942  141.252626  5725.206
 0.25000    18.861064  306.993977     8.511158
506.475942  135.558282  5687.934
 0.50000    18.861064  334.351630     8.511158
506.475942  130.570476  5620.767
 0.75000    18.861064  363.317103     8.511158
506.475942  126.444629  5528.449
 1.00000    18.861064  393.078608     8.511158
506.475942  123.033135  5407.115
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD          >
                                 820

 F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

 COMB      CAR  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -30.417611 -379.755261     -7.994624
-364.558152   -96.072874   -1291.150
 0.25000   -30.417611 -347.094982     -7.994624
-364.558152   -92.715979   -1215.976
 0.50000   -30.417611 -314.838709     -7.994624
-374.820885   -90.435049   -1140.968
 0.75000   -30.417611 -283.947077     -7.994624
-397.265064   -89.533358   -1065.844
 1.00000   -30.417611 -255.017739     -7.994624
-420.675353   -89.518033  -990.746993

 COMB   DESIGN  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   18.861064  281.796106     8.511158
506.475942  141.252626  5725.206
 0.25000   18.861064  306.993977     8.511158
506.475942  135.558282  5687.934
 0.50000   18.861064  334.351630     8.511158
506.475942  130.570476  5620.767
 0.75000   18.861064  363.317103     8.511158
506.475942  126.444629  5528.449
 1.00000   18.861064  393.078608     8.511158
506.475942  123.033135  5407.115

 COMB   DESIGN  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -30.417611 -379.755261     -7.994624
-364.558152   -96.072874   -1291.150
 0.25000   -30.417611 -347.094982     -7.994624
-364.558152   -92.715979   -1215.976
 0.50000   -30.417611 -314.838709     -7.994624
-374.820885   -90.435049   -1140.968
 0.75000   -30.417611 -283.947077     -7.994624
-397.265064   -89.533358   -1065.844
 1.00000   -30.417611 -255.017739     -7.994624
-420.675353   -89.518033  -990.746993

 ELEM       50  ================== LENGTH
=     4.988196

 COMB DB-G1-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.531671   195.495861    10.420629
471.690737   76.161795   2745.504
 0.25000    3.531671   217.936132    10.420629
471.690737   65.320615   2736.474
 0.50000    3.531671   242.398688    10.420629
471.690737   55.416907   2691.391
 0.75000    3.531671   268.399642    10.420629
471.690737   46.335607   2605.659
 1.00000    3.531671   294.508874    10.420629
471.690737   38.006381   2477.297

 COMB DB-G1-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.165016 -247.829324     -0.953373
-55.959102   -3.042263  -292.584641
 0.25000   -14.165016 -221.231574     -0.953373
-55.959102   -4.785048  -271.469666
 0.50000   -14.165016 -194.149515     -0.953373
-55.959102   -6.533862  -250.354690
 0.75000   -14.165016 -168.033810     -0.953373
-55.959102   -8.305868  -229.240393
 1.00000   -14.165016 -143.378129     -0.953373
-55.959102   -10.527672  -208.134898

 COMB DB-G1-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   14.054355   305.153284    12.811720
626.250645  111.677737   4470.463
 0.25000   14.054355   333.400797    12.811720
626.250645  102.610263   4392.953
 0.50000   14.054355   364.098529    12.811720
626.250645   98.948550   4284.470
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD          >
                                 821

 F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   14.054355   396.672198    12.811720
626.250645   96.969976   4146.514
 1.00000   14.054355   430.197497    12.811720
626.250645   96.257158   3972.375

 COMB DB-G1-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -17.924019 -334.761743     -7.048384
-134.880275   -2.724506  -523.436728
 0.25000   -17.924019 -300.706932     -7.048384
-134.880275   -2.896831  -485.344186
 0.50000   -17.924019 -266.878702     -7.048384
-134.880275   -3.409595  -447.251643
 0.75000   -17.924019 -234.236043     -7.048384
-134.880275   -7.259317  -409.163142
 1.00000   -17.924019 -203.364432     -7.048384
-134.880275   -13.362586  -371.081795

 COMB DB-G1-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.152401   331.753171    11.613392
589.620235  100.447445   5165.419
 0.25000   10.152401   357.685913    11.613392
589.620235   91.054190   5041.392
 0.50000   10.152401   385.863200    11.613392
589.620235   85.220484   4889.007
 0.75000   10.152401   415.757700    11.613392
589.620235   81.111873   4708.823
 1.00000   10.152401   446.585075    11.613392
589.620235   78.539877   4499.438

 COMB DB-G1-3  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -17.983890 -313.008586     -5.414255
-253.179184   -3.536890  -698.292327
 0.25000   -17.983890 -281.668489     -5.414255
-253.179184   -3.430284  -646.819578
 0.50000   -17.983890 -250.659879     -5.414255
-253.179184   -3.693775  -595.346829
 0.75000   -17.983890 -220.707049     -5.414255
-253.179184   -7.125708  -543.878026
 1.00000   -17.983890 -192.377661     -5.414255
-253.179184   -12.963605  -492.415501

 COMB DB-G1-4  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.133334   307.949052    13.469915
512.002279   84.624494   4928.254
 0.25000    9.133334   329.569993    13.469915
512.002279   77.190504   4789.137
 0.50000    9.133334   353.062137    13.469915
512.002279   72.977190   4627.059
 0.75000    9.133334   377.985826    13.469915
512.002279   70.454241   4442.482
 1.00000    9.133334   403.689041    13.469915
512.002279   69.538255   4234.081

 COMB DB-G1-4  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -21.159487 -271.939352     -7.178107
-344.635346   -33.133068  -759.362368
 0.25000  -21.159487 -245.833778     -7.178107
-344.635346   -32.181901  -702.655358
 0.50000  -21.159487 -219.956434     -7.178107
-344.635346   -33.379233  -645.948349
 0.75000  -21.159487 -194.984262     -7.178107
-344.635346   -38.779145  -589.244637
 1.00000  -21.159487 -171.365531     -7.178107
-344.635346   -46.881754  -532.548879

 COMB DB-G2-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.598328   97.552035     1.281808
148.761031   25.910774   1732.097
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD          >
                                 822

 F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   11.598328   97.564636     1.281808
148.718590   29.692872   1635.736
 0.50000   11.598328   97.576204     1.281808
148.682365   37.410317   1556.893
 0.75000   11.598328   97.592494     1.281808
148.647786   45.836338   1501.808
 1.00000   11.598328   97.608649     1.281808
148.615459   54.266598   1468.548

 COMB DB-G2-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.363926  -36.226124     -6.773633
-118.374664   -2.350589  -266.634497
 0.25000   -3.363926  -36.209818     -6.773633
-118.394223   -1.861654  -246.833904
 0.50000   -3.363926  -36.195158     -6.773633
-118.418941   -1.449146  -227.033313
 0.75000   -3.363926  -36.180969     -6.773633
-118.453074   -1.872246  -207.232723
 1.00000   -3.363926  -36.167505     -6.773633
-118.493134   -2.464213  -187.432197

 COMB DB-G2-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.977509   151.645057     4.112903
163.358329   23.504047   2804.951
 0.25000    7.977509   151.657658     4.112903
163.315888   25.051843   2653.206
 0.50000    7.977509   151.671226     4.112903
163.279663   29.659780   2518.641
 0.75000    7.977509   151.685516     4.112903
163.245083   35.131316   2407.816
 1.00000    7.977509   151.701671     4.112903
163.212757   41.079227   2321.619

 COMB DB-G2-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.111044  -48.917090     -6.151476
-279.533679   -15.905856   -501.705339
 0.25000   -9.111044  -48.900784     -6.151476
-279.553238   -15.300740  -469.478136
 0.50000   -9.111044  -48.886124     -6.151476
-279.577957   -16.501111  -431.250935
 0.75000   -9.111044  -48.871936     -6.151476
-279.612097   -19.975731  -392.023735
 1.00000   -9.111044  -48.858471     -6.151476
-279.652149   -24.286504  -354.796540

 COMB DB-G2-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.371811   288.193403     9.995973
469.035267   75.693453   4622.041
 0.25000    9.371811   310.004588     9.995973
441.801303   71.172424   4493.568
 0.50000    9.371811   333.602293     9.995973
411.289916   69.651244   4341.261
 0.75000    9.371811   358.549691     9.995973
385.669641   70.165186   4166.022
 1.00000    9.371811   385.454307     9.995973
385.669641   72.247863   3967.248

 COMB DB-G2-3  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -16.381598 -253.347815     -7.593947
-287.996090   -15.159774   -690.023320
 0.25000  -16.381598 -226.106052     -7.593947
-287.996090   -14.537027   -638.728031
 0.50000  -16.381598 -200.350402     -7.593947
-287.996090   -16.138750   -587.433318
 0.75000  -16.381598 -175.460831     -7.593947
-287.996090   -20.729754   -536.145537
 1.00000  -16.381598 -151.883393     -7.593947
-304.751564   -27.349953   -484.857762
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD          >
                                 823

 F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

 COMB DB-G2-4  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.575603   268.118757     9.568514
415.971640   63.410921   4404.476
 0.25000    8.575603   286.286073     9.568514
393.287498   60.101753   4264.281
 0.50000    8.575603   305.941445     9.568514
367.873473   59.645099   4104.365
 0.75000    8.575603   326.721025     9.568514
346.533430   61.262244   3925.748
 1.00000    8.575603   349.130842     9.568514
346.533430   64.661425   3727.723

 COMB DB-G2-4  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -15.633565  -222.210209     -9.715855
-375.536146   -26.046670   -751.568580
 0.25000  -15.633565  -199.519570     -9.715855
-375.536146   -43.274832   -694.967769
 0.50000  -15.633565  -178.066768     -9.715855
-375.536146   -42.766928   -638.367437
 0.75000  -15.633565  -157.335355     -9.715855
-375.536146   -45.256567   -581.772881
 1.00000  -15.633565  -137.696864     -9.715855
-389.492380   -49.996319   -525.178324

 COMB DB-G3-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    1.541484   41.021735     0.519883
42.058564    0.785284   798.914855
 0.25000    1.541484   41.034341     0.519883
42.016047    1.284455   749.973332
 0.50000    1.541484   41.047916     0.519883
41.979763    2.202858   701.394073
 0.75000    1.541484   41.062211     0.519883
41.945125    4.268500   653.029584
 1.00000    1.541484   41.078376     0.519883
41.912739    7.155785   605.119578

 COMB DB-G3-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -1.670513  -17.133145     -5.865071
-209.062259   -54.039994  -269.206779
 0.25000   -1.670513  -17.116828     -5.865071
-209.082120   -49.193617  -248.003321
 0.50000   -1.670513  -17.102163     -5.865071
-209.107108   -45.111579  -226.799866
 0.75000   -1.670513  -17.087969     -5.865071
-209.141297   -41.619550  -205.596412
 1.00000   -1.670513  -17.074500     -5.865071
-209.181427   -38.715437  -184.392957

 COMB DB-G3-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.334889   85.252727     5.643346
62.260839    2.679502   1662.661
 0.25000    2.334889   85.265328     5.643346
62.218398    3.574669   1565.835
 0.50000    2.334889   85.278896     5.643346
62.182173    5.668291   1471.726
 0.75000    2.334889   85.293186     5.643346
62.147593    8.694086   1377.678
 1.00000    2.334889   85.309341     5.643346
62.115267    12.730082   1289.984

 COMB DB-G3-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.063428  -30.995335     -8.446278
-361.870526   -82.270316   -481.857327
 0.25000   -10.063428  -30.979029     -8.446278
-361.890085   -77.657667   -444.271538
 0.50000   -10.063428  -30.964369     -8.446278
-361.914803   -77.494305   -406.685753
 0.75000   -10.063428  -30.950180     -8.446278
-361.948936   -80.017602   -369.099967
 1.00000   -10.063428  -30.936716     -8.446278
-361.988995   -83.712496   -331.514181
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD          >
                                 824

 F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

 COMB DB-G3-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.499708   144.042233     3.319143
127.195773   10.012806   2804.331
 0.25000    3.499708   144.053574     3.319143
127.157576   10.928901   2650.305
 0.50000    3.499708   144.065786     3.319143
127.124974   13.126465   2504.121
 0.75000    3.499708   144.078646     3.319143
127.093852   16.473601   2367.089
 1.00000    3.499708   144.093186     3.319143
127.064758   21.067361   2242.854

 COMB DB-G3-3  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.171633  -42.054046     -8.429998
-437.232202   -68.528929   -660.942613
 0.25000   -8.171633  -42.039370     -8.429998
-437.249805   -63.394565   -610.105002
 0.50000   -8.171633  -42.026176     -8.429998
-437.272051   -60.475535   -559.267393
 0.75000   -8.171633  -42.013406     -8.429998
-437.300771   -60.154936   -508.429785
 1.00000   -8.171633  -42.001288     -8.429998
-437.338824   -61.199160   -457.592177

 COMB DB-G3-4  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.749080   234.214863     6.315576
374.244547   47.442631   3970.722
 0.25000   10.749080   247.026096     6.315576
336.779913   46.743396   3819.064
 0.50000   10.749080   260.853452     6.315576
312.217272   49.439152   3657.743
 0.75000   10.749080   275.442877     6.315576
288.605988   54.306127   3488.843
 1.00000   10.749080   291.564526     6.315576
263.027405   62.367445   3312.531

 COMB DB-G3-4  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.661462  -169.975121    -12.081266
-408.474697   -58.414100   -745.198867
 0.25000  -11.661462  -153.677969    -12.081266
-408.474697   -53.920317   -688.661250
 0.50000  -11.661462  -138.667160    -12.081266
-419.160751   -51.488686   -632.125885
 0.75000  -11.661462  -124.143874    -12.081266
-439.169665   -51.709874   -575.592324
 1.00000  -11.661462  -110.376743    -12.081266
-464.677097   -53.820289   -519.058763

 COMB DL-G1-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.457273   167.278739    12.622309
504.671839   80.323112   2716.989
 0.25000    7.457273   186.300219    12.622309
513.280312   77.693370   2587.586
 0.50000    7.457273   206.849476    12.622309
521.888784   56.179147   2623.115
 0.75000    7.457273   228.551645    12.622309
530.497257   46.404817   2522.439
 1.00000    7.457273   250.939662    12.622309
539.105730   38.713038   2386.105

 COMB DL-G1-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -22.671027  -197.501966     -1.701615
-80.562914   -3.266414   -382.727720
 0.25000  -22.671027  -177.083546     -1.701615
-80.562914   -5.381165   -354.660824
 0.50000  -22.671027  -157.098363     -1.701615
-80.562914   -8.320939   -326.802379
 0.75000  -22.671027  -138.024102     -1.701615
-80.562914   -12.431978   -298.866557
 1.00000  -22.671027  -120.325687     -1.701615
-80.562914   -17.977076   -270.866337
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD          >
                                 825

 F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

 COMB DL-G1-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   18.083400   273.264223    15.095547
666.607350   121.827301   4492.245
 0.25000   18.083400   296.450004    15.095547
669.920613   110.872078   4391.825
 0.50000   18.083400   321.525322    15.095547
673.233876   104.261359   4252.379
 0.75000   18.083400   348.034314    15.095547
676.547140   99.645982   4082.923
 1.00000   18.083400   375.433946    15.095547
679.860403   97.332880   3882.313

 COMB DL-G1-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -28.571545  -275.123482     -7.304331
-167.525440   -4.174996   -683.416664
 0.25000  -28.571545  -250.095236     -7.304331
-167.525440   -5.152083   -633.192152
 0.50000  -28.571545  -225.658932     -7.304331
-167.525440   -7.210022   -583.074396
 0.75000  -28.571545  -202.378474     -7.304331
-167.525440   -10.798075   -532.881732
 1.00000  -28.571545  -180.797732     -7.304331
-167.525440   -17.280878   -482.743052

 COMB DL-G1-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.687152   312.378592    14.151484
623.117194   109.433246   5406.049
 0.25000   15.687152   333.670101    14.151484
625.513364   98.946417   5246.756
 0.50000   15.687152   356.700599    14.151484
627.909534   92.150831   5052.428
 0.75000   15.687152   381.051179    14.151484
630.305703   87.405601   4829.112
 1.00000   15.687152   406.224634    14.151484
632.701873   84.866028   4576.503

 COMB DL-G1-3  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -28.607965  -266.825770     -6.749350
-290.268651   -6.348868   -920.798532
 0.25000  -28.607965  -243.827522     -6.749350
-290.268651   -6.694466   -852.401807
 0.50000  -28.607965  -221.378658     -6.749350
-290.268651   -8.919304   -784.100545
 0.75000  -28.607965  -199.995513     -6.749350
-290.268651   -12.702086   -715.733911
 1.00000  -28.607965  -180.177378     -6.749350
-290.268651   -19.420564   -647.383535

 COMB DL-G1-4  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   14.317327   301.745014    14.611255
543.435693   92.461832   5260.115
 0.25000   14.317327   319.492622    14.611255
545.433010   84.146656   5080.852
 0.50000   14.317327   338.689590    14.611255
547.430326   79.177456   4872.548
 0.75000   14.317327   358.986905    14.611255
549.427642   76.194841   4640.449
 1.00000   14.317327   379.970125    14.611255
551.424959   75.384504   4384.089

 COMB DL-G1-4  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -29.120128  -237.227806     -8.367632
-402.411986   -37.102743   -990.604625
 0.25000  -29.120128  -218.057720     -8.367632
-402.411986   -36.633768   -916.952286
 0.50000  -29.120128  -199.345571     -8.367632
-402.411986   -38.733338   -842.007725
 0.75000  -29.120128  -181.521747     -8.367632
-402.411986   -43.021727   -767.680797
 1.00000  -29.120128  -165.002430     -8.367632
-402.411986   -50.202953   -693.382685
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD          >
                                 826

 F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

 COMB DL-G2-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.933743   100.384547     1.693067
121.455483   32.707846   1847.405
 0.25000   10.933743   100.391591     1.693067
121.435487   36.043306   1756.075
 0.50000   10.933743   100.399278     1.693067
121.416269   41.851306   1667.392
 0.75000   10.933743   100.407459     1.693067
121.398263   48.269703   1589.683
 1.00000   10.933743   100.415990     1.693067
121.381884   54.909267   1523.967

 COMB DL-G2-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.171567  -44.681654     -6.101790
-124.740435   -3.016201   -344.624617
 0.25000   -5.171567  -44.673804     -6.101790
-124.753804   -2.663143   -318.930509
 0.50000   -5.171567  -44.666218     -6.101790
-124.768868   -2.571681   -293.197165
 0.75000   -5.171567  -44.659074     -6.101790
-124.785214   -3.012795   -267.488863
 1.00000   -5.171567  -44.652499     -6.101790
-124.802389   -3.766523   -241.797695

 COMB DL-G2-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.120269   166.493722     4.036569
136.867972   28.217647   3150.150
 0.25000    9.120269   166.500767     4.036569
136.847969   30.347244   2985.506
 0.50000    9.120269   166.508454     4.036569
136.828744   34.819229   2826.034
 0.75000    9.120269   166.516636     4.036569
136.810730   39.868414   2677.975
 1.00000    9.120269   166.525169     4.036569
136.794345   45.392347   2541.379

 COMB DL-G2-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.931494  -62.983441     -6.213841
-301.188896   -17.454313   -663.035421
 0.25000  -10.931494  -62.975591     -6.213841
-301.202272   -17.221752   -612.990011
 0.50000  -10.931494  -62.968014     -6.213841
-301.217344   -18.519928   -562.940553
 0.75000  -10.931494  -62.960860     -6.213841
-301.233698   -21.253598   -512.878730
 1.00000  -10.931494  -62.954284     -6.213841
-301.250882   -24.472149   -462.773886

 COMB DL-G2-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   14.742514   279.358722    10.761077
```

```
506.687800    84.359941    4915.517
 0.25000    14.742514   298.026746    10.761077
471.925876    80.166077    4755.152
 0.50000    14.742514   318.308815    10.761077
435.928410    77.621730    4564.322
 0.75000    14.742514   339.831535    10.761077
405.192803    78.395384    4345.690
 1.00000    14.742514   362.177473    10.761077
397.147802    79.737368    4100.564

 COMB DL-G2-3 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -22.757426  -224.564364    -8.127234
-319.070754   -17.050638  -901.360171
 0.25000   -22.757426  -204.079847    -8.127234
-319.080172   -16.974125  -834.088623
 0.50000   -22.757426  -184.195269    -8.127234
-319.169067   -19.141958  -766.704548
 0.75000   -22.757426  -165.339451    -8.127234
-334.280920   -23.604166  -699.426665
 1.00000   -22.757426  -147.940737    -8.127234
-361.282497   -29.602113  -632.741630
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          827

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    13.627040   272.453163    10.075176
453.004077    70.854079    4800.022
 0.25000    13.627040   288.004975    10.075176
424.044885    67.752622    4621.408
 0.50000    13.627040   304.901402    10.075176
394.056398    67.234382    4417.350
 0.75000    13.627040   322.831382    10.075176
368.451418    68.238035    4190.290
 1.00000    13.627040   341.447161    10.075176
361.749352    71.019947    3941.282

 COMB DL-G2-4 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -20.957656  -202.562614   -10.385333
-438.267709   -51.006519  -980.959553
 0.25000   -20.957656  -185.497533   -10.385333
-438.275555   -48.209195  -906.931014
 0.50000   -20.957656  -168.932244   -10.385333
-438.349610   -47.633124  -832.806987
 0.75000   -20.957656  -153.223986   -10.385333
-450.938875   -49.384045  -758.771146
 1.00000   -20.957656  -138.729602   -10.385333
-473.433137   -53.061854  -685.233672

 COMB DL-G3-1 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.205264    58.439193    0.800769
51.730722    1.254055    1022.289
 0.25000    3.205264    58.446239    0.800769
51.710696    2.015030    955.975520
 0.50000    3.205264    58.453929    0.800769
51.691449    3.170785    889.673292
 0.75000    3.205264    58.462113    0.800769
51.673416    4.828840    823.393674
 1.00000    3.205264    58.470648    0.800769
51.657012    7.780358    757.392537

 COMB DL-G3-1 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -1.960911  -23.776986    -6.630007
-267.814398   -59.846234  -353.283327
 0.25000   -1.960911  -23.769133    -6.630007
-267.827796   -53.647444  -325.577688
 0.50000   -1.960911  -23.761554    -6.630007
-267.842890   -48.191103  -297.870336
 0.75000   -1.960911  -23.754398    -6.630007
-267.859270   -43.523165  -270.172318
 1.00000   -1.960911  -23.747820    -6.630007
-267.876480   -39.712282  -242.466958

 COMB DL-G3-2 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.516084   114.067451    5.168448
74.480579    1.208847    2021.214
 0.25000    4.516084   114.074493    5.168448
74.460614    4.475938    1939.925
 0.50000    4.516084   114.082177    5.168448
74.441426    6.498102    1813.021
 0.75000    4.516084   114.090355    5.168448
74.423445    9.575879    1687.388
 1.00000    4.516084   114.098883    5.168448
74.407091   13.849858    1563.160

 COMB DL-G3-2 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -10.032463   -42.467929    -9.155737
-445.896092   -90.012546  -630.722882
 0.25000   -10.032463   -42.460082    -9.155737
-445.909431   -84.527094  -581.651073
 0.50000   -10.032463   -42.452509    -9.155737
-445.924464   -81.934591  -532.605851
 0.75000   -10.032463   -42.445358    -9.155737
-445.940777   -81.396078  -483.532263
 1.00000   -10.032463   -42.438785    -9.155737
-445.957918   -81.966959  -434.460696
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          828

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.850912   175.224013    3.914338
122.503825    13.250938    3330.738
 0.25000    6.850912   175.300069    3.914338
122.288117    15.139644    3143.627
 0.50000    6.850912   175.383066    3.914338
122.080806    18.358582    2959.099
 0.75000    6.850912   175.471394    3.914338
121.886541    22.607936    2776.240
 1.00000    6.850912   175.563511    3.914338
121.709850    27.960322    2597.823

 COMB DL-G3-3 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -10.119923   -60.667053    -9.661570
-512.934622   -76.491109  -862.572325
 0.25000   -10.119923   -60.522303    -9.661570
-513.078769   -70.573512  -796.265939
 0.50000   -10.119923   -60.500503    -9.661570
-513.241207   -66.762188  -729.963149
 0.75000   -10.119923   -60.423269    -9.661570
-513.417477   -64.986244  -663.659174
 1.00000   -10.119923   -60.352271    -9.661570
-513.602690   -64.389471  -597.304994

 COMB DL-G3-4 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   14.486682   248.106944    7.296720
383.678783    54.972920    4411.815
 0.25000   14.486682   259.348152    7.296720
355.939306    54.959146    4225.343
 0.50000   14.486682   271.594008    7.296720
329.142799    57.699687    4021.750
 0.75000   14.486682   284.607025    7.296720
304.057164    61.775061    3803.696
 1.00000   14.486682   298.151558    7.296720
281.347886    68.747429    3572.487

 COMB DL-G3-4 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -16.206082  -164.263230   -12.494134
-480.443717   -65.577622  -972.659225
 0.25000   -16.206082  -151.822516   -12.494134
-486.106041   -60.507207  -898.794825
 0.50000   -16.206082  -139.783818   -12.494134
-505.581087   -57.674016  -825.376207
 0.75000   -16.206082  -128.395066   -12.494134
-526.859012   -57.100927  -752.331493
 1.00000   -16.206082  -117.910591   -12.494134
-549.199807   -58.190749  -679.229611

 COMB     DB ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   14.054355   331.753171    13.469915
626.250645   111.677737    5165.419
 0.25000   14.054355   357.685913    13.469915
626.250645   102.610263    5041.392
 0.50000   14.054355   385.863200    13.469915
626.250645    98.948550    4889.007
 0.75000   14.054355   415.757700    13.469915
626.250645    96.969976    4708.823
 1.00000   14.054355   446.585075    13.469915
626.250645    96.257158    4499.438

 COMB     DB ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -21.159487  -334.761743   -12.081266
-437.232202   -82.270316  -703.362368
 0.25000  -21.159487  -300.706932   -12.081266
-437.249805   -77.657667  -702.655358
 0.50000  -21.159487  -266.878702   -12.081266
-437.272051   -77.494305  -645.948349
 0.75000  -21.159487  -234.236043   -12.081266
-439.169665   -80.017602  -589.244637
 1.00000  -21.159487  -203.364432   -12.081266
-464.677097   -83.712496  -532.548879
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          829

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     DL ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   18.083400   312.378392    15.095547
666.607350   121.827301    5406.049
 0.25000   18.083400   333.670101    15.095547
669.920613   110.872078    5246.756
 0.50000   18.083400   356.700599    15.095547
673.233876   104.261359    5052.428
 0.75000   18.083400   381.051179    15.095547
676.547140    99.645982    4829.112
 1.00000   18.083400   406.224634    15.095547
679.860403    97.332880    4576.503

 COMB     DL ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -29.120128  -275.123482   -12.494134
-512.934622   -90.012546  -990.604625
 0.25000  -29.120128  -250.095236   -12.494134
-513.078769   -84.527094  -916.259286
 0.50000  -29.120128  -225.658932   -12.494134
-513.241207   -81.934591  -842.007725
 0.75000  -29.120128  -202.378474   -12.494134
-526.859012   -81.396078  -767.680797
 1.00000  -29.120128  -180.797732   -12.494134
-549.199807   -81.966959  -693.382685

 COMB     CAR ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   18.083400   331.753171    15.095547
666.607350   121.827301    5406.049
 0.25000   18.083400   357.685913    15.095547
669.920613   110.872078    5246.756
 0.50000   18.083400   385.863200    15.095547
673.233876   104.261359    5052.428
 0.75000   18.083400   415.757700    15.095547
676.547140    99.645982    4829.112
 1.00000   18.083400   446.585075    15.095547
679.860403    97.332880    4576.503

 COMB     CAR ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -29.120128  -334.761743   -12.494134
-512.934622   -90.012546  -990.604625
 0.25000  -29.120128  -300.706932   -12.494134
-513.078769   -84.527094  -916.259286
 0.50000  -29.120128  -266.878702   -12.494134
-513.241207   -81.934591  -842.007725
 0.75000  -29.120128  -234.236043   -12.494134
-526.859012   -81.396078  -767.680797
 1.00000  -29.120128  -203.364432   -12.494134
-549.199807   -83.712496  -693.382685

 COMB  DESIGN ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   18.083400   331.753171    15.095547
666.607350   121.827301    5406.049
 0.25000   18.083400   357.685913    15.095547
669.920613   110.872078    5246.756
 0.50000   18.083400   385.863200    15.095547
673.233876   104.261359    5052.428
 0.75000   18.083400   415.757700    15.095547
676.547140    99.645982    4829.112
 1.00000   18.083400   446.585075    15.095547
679.860403    97.332880    4576.503

 COMB  DESIGN ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -29.120128  -334.761743   -12.494134
-512.934622   -90.012546  -990.604625
 0.25000  -29.120128  -300.706932   -12.494134
-513.078769   -84.527094  -916.259286
 0.50000  -29.120128  -266.878702   -12.494134
-513.241207   -81.934591  -842.007725
 0.75000  -29.120128  -234.236043   -12.494134
-526.859012   -81.396078  -767.680797
 1.00000  -29.120128  -203.364432   -12.494134
-549.199807   -83.712496  -693.382685
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          830

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      51 ================== LENGTH
=    4.987077

 COMB DB-G1-1 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.130140   224.726333    13.986937
576.787673    37.611689    2475.577
 0.25000    3.130140   248.584773    13.986937
576.787673    21.398373    2389.569
 0.50000    3.130140   274.701805    13.986937
576.787673     9.092533    2274.424
 0.75000    3.130140   302.654775    13.986937
576.787673    10.580856    2113.477
 1.00000    3.130140   331.094040    13.986937
576.787673    12.069420    1902.144

 COMB DB-G1-1 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -13.878064  -210.119398    -1.201194
-57.681735   -11.022909  -207.909777
 0.25000  -13.878064  -180.474332    -1.201194
-57.681735   -18.238993  -186.770179
 0.50000  -13.878064  -149.767059    -1.201194
-57.681735   -27.121139  -165.630620
 0.75000  -13.878064  -120.843599    -1.201194
-57.681735   -37.640646  -144.491153
 1.00000  -13.878064   -94.304501    -1.201194
-57.681735   -49.929206  -123.351687

 COMB DB-G1-2 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   13.802343   356.749459    16.664638
712.283793    95.140664    3970.631
 0.25000   13.802343   386.602072    16.664638
712.283793    87.158875    3768.916
 0.50000   13.802343   419.218458    16.664638
712.283793    80.389975    3537.660
 0.75000   13.802343   454.102238    16.664638
712.283793    84.612507    3264.613
 1.00000   13.802343   490.357345    16.664638
712.283793    95.057499    2949.476

 COMB DB-G1-2 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -17.216940  -273.450825    -8.405964
-133.149542   -14.197742  -370.748169
 0.25000   -17.216940  -235.854125    -8.405964
-133.149542   -22.564629  -332.592574
 0.50000   -17.216940  -197.816802    -8.405964
-133.149542   -32.669619  -294.436735
 0.75000   -17.216940  -162.076857    -8.405964
-133.149542   -44.517938  -256.285607
 1.00000   -17.216940  -128.967204    -8.405964
-133.149542   -58.427661  -218.133205

 COMB DB-G1-3 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    9.665458   396.947153    15.151687
618.461036    76.420104    4498.452
 0.25000    9.665458   424.339836    15.151687
618.461036    66.169759    4229.250
 0.50000    9.665458   454.266521    15.151687
618.461036    57.649915    3933.437
 0.75000    9.665458   486.271038    15.151687
618.461036    59.038150    3596.020
 1.00000    9.665458   519.592695    15.151687
618.461036    67.498026    3219.140

 COMB DB-G1-3 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -16.923784  -261.806078    -6.842344
-277.575799   -13.620218  -492.126955
 0.25000  -16.923784  -227.265649    -6.842344
-277.575799   -21.592263  -440.524585
 0.50000  -16.923784  -192.388825    -6.842344
-277.575799   -31.141194  -388.923411
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          831

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000  -16.923784  -159.624972    -6.842344
-277.575799   -42.279765  -337.322242
 1.00000  -16.923784  -129.250579    -6.842344
-277.575799   -55.196891  -285.721074

 COMB DB-G1-4 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.576189   373.967050    16.460986
536.064689    67.285350    4234.033
 0.25000    8.576189   396.304785    16.460986
536.064689    59.945087    3956.522
 0.50000    8.576189   421.755099    16.460986
536.064689    54.386579    3656.871
 0.75000    8.576189   448.437657    16.460986
536.064689    57.354193    3322.898
 1.00000    8.576189   476.220081    16.460986
536.064689    66.349907    2956.374

 COMB DB-G1-4 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -20.319414  -229.364890    -8.723598
-407.339291   -47.583940  -532.470214
 0.25000  -20.319414  -200.566719    -8.723598
-407.339291   -56.726703  -475.520034
 0.50000  -20.319414  -171.490107    -8.723598
-407.339291   -68.047860  -418.630845
 0.75000  -20.319414  -144.175260    -8.723598
-407.339291   -81.564355  -361.744671
 1.00000  -20.319414  -118.851830    -8.723598
-407.339291   -97.027365  -304.858968

 COMB DB-G2-1 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.873057   122.554476    1.441939
89.769209    53.527116    1468.745
 0.25000   11.873057   122.567455    1.441939
89.723543    63.694546    1324.812
 0.50000   11.873057   122.581582    1.441939
89.683766    73.863894    1188.658
 0.75000   11.873057   122.596835    1.441939
89.643869    84.035378    1069.164
 1.00000   11.873057   122.613714    1.441939
89.611780    94.209192    972.300906

 COMB DB-G2-1 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.904646  -22.803243    -8.171786
-121.569944   -2.673234  -187.353164
 0.25000   -2.904646  -22.785887    -8.171786
-121.580221   -3.413404  -167.493779
 0.50000   -2.904646  -22.769989    -8.171786
-121.603887   -4.168623  -147.635863
 0.75000   -2.904646  -22.755224    -8.171786
-121.632291   -4.929954  -127.777952
 1.00000   -2.904646  -22.741002    -8.171786
-121.675162   -5.928743  -107.920043

 COMB DB-G2-2 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.864232   195.267709    4.598430
73.444727    39.028658    2322.636
 0.25000    7.864232   195.280688    4.598430
73.399061    45.160434    2091.158
 0.50000    7.864232   195.294815    4.598430
73.359284    52.278081    1869.819
 0.75000    7.864232   195.309868    4.598430
73.319387    60.337652    1662.833
 1.00000    7.864232   195.326946    4.598430
73.287298    68.960028    1478.609

 COMB DB-G2-2 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -8.409462  -37.185198    -7.525926
-322.625699   -24.246087  -354.776661
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          832

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000   -8.409462  -37.167842    -7.525926
-322.635976   -29.135954  -316.400594
 0.50000   -8.409462  -37.151945    -7.525926
-322.659641   -34.028031  -278.025895
 0.75000   -8.409462  -37.137179    -7.525926
-322.688046   -38.921024  -239.655323
 1.00000   -8.409462  -37.122957    -7.525926
-322.730916   -44.035188  -201.285397

 COMB DB-G2-3 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    9.409695   350.169951    12.187553
456.720927    70.017712    3967.268
 0.25000    9.409695   372.934881    12.187553
427.947013    69.567202    3709.662
 0.50000    9.409695   397.761616    12.187553
395.111549    76.977196    3426.021
 0.75000    9.409695   424.266646    12.187553
377.857410    85.613284    3107.521
 1.00000    9.409695   453.029927    12.187553
377.857410    94.623929    2756.791

 COMB DB-G2-3 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.406526  -214.247110    -8.329176
-328.767190   -27.808404  -484.673921
 0.25000  -15.406526  -184.719982    -8.329176
-328.767190   -36.134512  -433.222648
 0.50000  -15.406526  -156.256865    -8.329176
-328.767190   -45.367816  -381.772344
 0.75000  -15.406526  -129.657709    -8.329176
-328.767190   -55.516489  -330.325771
 1.00000  -15.406526  -104.558066    -8.329176
-328.767190   -66.637804  -278.879780

 COMB DB-G2-4 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.457423   329.997793    10.898811
405.430115    62.296022    3728.546
 0.25000    8.457423   348.959517    10.898811
381.463294    63.643196    3466.327
 0.50000    8.457423   369.638503    10.898811
354.113461    71.649658    3182.591
 0.75000    8.457423   391.715580    10.898811
339.741872    81.364694    2869.867
 1.00000    8.457423   415.673545    10.898811
339.741872    91.920020    2530.534

 COMB DB-G2-4 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -14.784050  -189.675580   -11.083833
-454.137113   -50.920534  -525.153081
 0.25000  -14.784050  -165.081379   -11.083833
-454.137113   -54.543837  -468.342108
 0.50000  -14.784050  -141.373431   -11.083833
-454.137113   -59.915400  -411.535707
 0.75000  -14.784050  -119.217685   -11.083833
-454.137113   -66.887317  -354.731754
 1.00000  -14.784050   -98.311653   -11.083833
-454.137113   -75.651736  -297.928183

 COMB DB-G3-1 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.065686   55.333486    0.567222
42.039614    2.065686   606.374157
 0.25000    2.065686   55.346471    0.567222
42.039070    9.556034   537.874873
 0.50000    2.065686   55.360603    0.567222
41.999232   13.540374   469.365246
 0.75000    2.065686   55.375661    0.567222
41.958922   18.319857   400.949519
 1.00000    2.065686   55.391850    0.567222
41.926773   23.870644   332.813278
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          833

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -1.362356  -17.217268    -7.466731
-277.046813   -39.693859  -184.604740
 0.25000   -1.362356  -17.199903    -7.466731
-277.057419   -32.412992  -163.261424
 0.50000   -1.362356  -17.184001    -7.466731
-277.081125   -25.634014  -141.936504
 0.75000   -1.362356  -17.169232    -7.466731
-277.109844   -19.357155  -120.612213
 1.00000   -1.362356  -17.155005    -7.466731
-277.152789   -13.522735   -99.287922

 COMB DB-G3-2 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.848520   115.138218    6.201173
61.069402    11.271597    1292.058
 0.25000    2.848520   115.151197    6.201173
61.020735    15.530072    1205.455
 0.50000    2.848520   115.165324    6.201173
60.983958    20.730330    1009.684
 0.75000    2.848520   115.180377    6.201173
60.944061    26.880510    870.613499
 1.00000    2.848520   115.197455    6.201173
60.911972    33.934245    733.452903

 COMB DB-G3-2 ---------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -9.779753  -30.679759   -10.129855
-472.943657   -84.537453  -331.802286
 0.25000   -9.779753  -30.662403   -10.129855
-472.953935   -83.970613  -293.999201
 0.50000   -9.779753  -30.646505   -10.129855
-472.977600   -84.148520  -256.207438
 0.75000   -9.779753  -30.631740   -10.129855
-473.006004   -85.112542  -218.420701
 1.00000   -9.779753  -30.617512   -10.129855
-473.048875   -86.891693  -180.634749

 COMB DB-G3-3 ---------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.053821   191.110612    3.581785
```

```
 57.407997   18.642891    2245.093
 0.25000     4.053821   191.122293     3.581785
 57.366898   23.202755    2013.917
 0.50000     4.053821   191.135007     3.581785
 57.331098   29.924388    1781.968
 0.75000     4.053821   191.148555     3.581785
 57.295191   37.698239    1561.931
 1.00000     4.053821   191.163926     3.581785
 57.266311   46.473222    1345.984

 COMB DB-G3-3 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -7.332098  -41.483584  -10.765554
-549.381281  -62.039645 -457.823263
 0.25000   -7.332098  -41.467964  -10.765554
-549.390531  -59.001522 -406.724180
 0.50000   -7.332098  -41.453656  -10.765554
-549.411829  -56.636788 -355.641461
 0.75000   -7.332098  -41.440367  -10.765554
-549.437393  -55.034376 -304.562190
 1.00000   -7.332098  -41.427567  -10.765554
-549.475977  -54.215053 -253.483458

 COMB DB-G3-4 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   11.206542  292.399035     7.309370
331.778369  59.878533    3313.974
 0.25000   11.206542  305.680843     7.309370
298.297585  69.059015    3053.604
 0.50000   11.206542  320.150865     7.309370
274.707078  81.608700    2779.548
 0.75000   11.206542  335.584248     7.309370
249.118253  94.604746    2488.846
 1.00000   11.206542  352.719382     7.309370
231.004063  107.60357    2185.162
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING                LOAD                >
                                          834

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-4 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -10.645394 -144.942652  -14.376920
-499.763500  -54.913348 -519.131130
 0.25000  -10.645394 -127.444329  -14.376920
-499.763500  -54.245766 -462.352272
 0.50000  -10.645394 -111.010322  -14.376920
-499.763500  -54.572323 -405.587925
 0.75000  -10.645394  -95.699631  -14.376920
-520.555598  -55.924857 -348.826430
 1.00000  -10.645394  -81.100967  -14.376920
-541.902496  -58.474308 -292.065381

 COMB DL-G1-1 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    6.670788   199.625352    17.582284
677.232407  39.810082    2383.781
 0.25000    6.670788   220.486393    17.582284
685.838948  27.466508    2281.712
 0.50000    6.670788   243.117299    17.582284
694.445489  17.940127    2142.627
 0.75000    6.670788   267.168284    17.582284
703.052030  19.436465    1965.219
 1.00000    6.670788   292.153663    17.582284
711.658571  22.137214    1749.458

 COMB DL-G1-1 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -21.882381 -165.046359   -2.177962
-75.806056  -19.153873 -270.647386
 0.25000  -21.882381 -145.132275   -2.177962
-75.806056  -27.709462 -242.703161
 0.50000  -21.882381 -125.587502   -2.177962
-75.806056  -39.043529 -214.799544
 0.75000  -21.882381 -106.899522   -2.177962
-75.806056  -55.773970 -186.587565
 1.00000  -21.882381  -89.500812   -2.177962
-75.806056  -75.628868 -158.711299

 COMB DL-G1-2 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   17.255779  332.838576    20.701141
844.917316  97.750733    4574.908
 0.25000   17.255779  358.128566    20.701141
848.229836  91.189368    3661.600
 0.50000   17.255779  385.600273    20.701141
851.542356  87.432283    3398.289
 0.75000   17.255779  414.850182    20.701141
854.854876  90.873007    3099.325
 1.00000   17.255779  445.307665    20.701141
858.167396 101.042231    2768.022

 COMB DL-G1-2 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -27.099657 -223.966280   -8.782396
-164.925091  -19.505096 -482.423773
 0.25000  -27.099657 -199.571321   -8.782396
-164.925091  -29.894988 -432.604643
 0.50000  -27.099657 -175.666372   -8.782396
-164.925091  -43.438779 -383.000019
 0.75000  -27.099657 -152.829889   -8.782396
-164.925091  -61.150732 -332.939386
 1.00000  -27.099657 -131.568954   -8.782396
-164.925091  -83.525625 -283.262827

 COMB DL-G1-3 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   14.771501  395.329197    19.350522
746.880255  83.794275    4574.908
 0.25000   14.771501  418.540787    19.350522
749.275887  77.539465    4272.111
 0.50000   14.771501  443.760259    19.350522
751.671519  74.064356    3927.889
 0.75000   14.771501  470.617067    19.350522
754.067151  76.844771    3549.499
 1.00000   14.771501  498.589077    19.350522
756.462782  86.391252    3139.838
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING                LOAD                >
                                          835

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-3 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -26.764527 -221.738231   -8.505525
-330.436422  -21.622521 -647.095107
 0.25000  -26.764527 -199.323205   -8.505525
-330.436422  -31.216225 -578.830260
 0.50000  -26.764527 -177.361921   -8.505525
-330.436422  -44.284145 -510.785201
 0.75000  -26.764527 -156.384074   -8.505525
-330.436422  -60.981061 -442.306346
 1.00000  -26.764527 -136.855576   -8.505525
-330.436422  -81.951903 -374.181790

 COMB DL-G1-4 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   13.379010  386.094322    19.056968
646.640867  73.739579    4383.631
 0.25000   13.379010  405.442238    19.056968
648.637735  69.867809    4066.755
 0.50000   13.379010  426.463815    19.056968
650.634603  68.608504    3715.362
 0.75000   13.379010  448.850186    19.056968
652.631471  72.911490    3335.633
 1.00000   13.379010  472.166129    19.056968
654.628339  83.158247    2929.889

 COMB DL-G1-4 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -27.347203 -199.756488   -10.360862
-494.654732  -51.405475 -693.235411
 0.25000  -27.347203 -181.072544   -10.360862
-494.654732  -60.465826 -618.893852
 0.50000  -27.347203 -162.766814   -10.360862
-494.654732  -72.589698 -544.738921
 0.75000  -27.347203 -145.280825   -10.360862
-494.654732  -88.338172 -470.792100
 1.00000  -27.347203 -129.002933   -10.360862
-494.654732 -108.144879 -397.153966

 COMB DL-G2-1 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   11.017627  133.189181     2.034129
85.456573   53.806525    1524.119
 0.25000   11.017627  133.196669     2.034129
85.435777   61.973994    1383.772
 0.50000   11.017627  133.204887     2.034129
85.415528   70.255669    1243.909
 0.75000   11.017627  133.213718     2.034129
85.396233   78.636519    1112.224
 1.00000   11.017627  133.223022     2.034129
85.378356   87.116199   991.278090

 COMB DL-G2-1 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -4.506626  -31.354829   -7.299811
-130.054980  -4.196912 -241.718733
 0.25000   -4.506626  -31.347198   -7.299811
-130.067929  -5.395710 -216.296969
 0.50000   -4.506626  -31.339776   -7.299811
-130.083126  -6.709995 -190.878265
 0.75000   -4.506626  -31.332714   -7.299811
-130.100008  -8.134736 -165.463201
 1.00000   -4.506626  -31.326177   -7.299811
-130.118159  -9.771475 -140.025014

 COMB DL-G2-2 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    9.016023  227.969687     4.623026
77.910143   42.784157    2542.469
 0.25000    9.016023  227.977175     4.623026
77.889340   49.555037    2294.986
 0.50000    9.016023  227.985395     4.623026
77.869083   56.873757    2047.497
 0.75000    9.016023  227.994226     4.623026
77.849781   64.651381    1808.809
 1.00000    9.016023  228.003531     4.623026
77.831894   72.944967    1581.498
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING                LOAD                >
                                          836

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-2 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -9.788095  -51.880393   -7.698050
-371.012185  -24.310159 -462.743493
 0.25000   -9.788095  -51.872760   -7.698050
-371.025173  -28.277888 -412.828234
 0.50000   -9.788095  -51.865339   -7.698050
-371.040378  -32.471059 -362.927590
 0.75000   -9.788095  -51.858276   -7.698050
-371.057269  -36.825346 -313.889691
 1.00000   -9.788095  -51.851738   -7.698050
-371.075429  -41.420504 -264.834220

 COMB DL-G2-3 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   14.289261  359.849556    13.864801
558.196710  87.870673    4100.152
 0.25000   14.289261  379.937119    13.864801
523.028369  78.411823    3808.853
 0.50000   14.289261  401.887655    13.864801
485.552904  84.613865    3481.502
 0.75000   14.289261  425.362554    13.864801
459.609954  92.110932    3123.007
 1.00000   14.289261  449.958200    13.864801
449.911857 101.084495    2734.992

 COMB DL-G2-3 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -20.996333 -190.435501   -9.855218
-384.573981  -30.641098 -632.552630
 0.25000  -20.996333 -170.493564   -9.855218
-384.622716  -38.903344 -566.407131
 0.50000  -20.996333 -151.028350   -9.855218
-384.654543  -48.657095 -500.407927
 0.75000  -20.996333 -132.473637   -9.855218
-384.697011  -59.937084 -435.259068
 1.00000  -20.996333 -115.247219   -9.855218
-408.188613  -72.720578 -369.798532

 COMB DL-G2-4 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   13.199060  352.592667    12.533716
495.862691  68.588073    3941.886
 0.25000   13.199060  369.327057    12.533716
466.140058  70.752485    3638.919
 0.50000   13.199060  387.613438    12.533716
434.300290  78.194665    3305.914
 0.75000   13.199060  407.169724    12.533716
413.307941  87.412492    2947.033
 1.00000   13.199060  427.659672    12.533716
405.228725  98.453752    2563.661

 COMB DL-G2-4 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -19.276330 -174.219642   -12.877605
-552.442310  -54.006280 -685.195222
 0.25000  -19.276330 -157.606735   -12.877605
-552.482910  -57.432096 -611.976203
 0.50000  -19.276330 -141.390807   -12.877605
-552.509424  -62.790669 -538.887692
 0.75000  -19.276330 -125.933392   -12.877605
-552.711417  -70.254304 -466.329715
 1.00000  -19.276330 -111.582542   -12.877605
-572.115003  -79.745098 -393.513576

 COMB DL-G3-1 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    3.531195   76.346994     0.848921
51.764192   6.354925   758.859108
 0.25000    3.531195   76.354484     0.848921
51.743367   9.819005   671.714389
 0.50000    3.531195   76.362705     0.848921
51.723089   14.323453  584.555932
 0.75000    3.531195   76.371539     0.848921
51.703768   20.036662  497.414246
 1.00000    3.531195   76.380846     0.848921
51.685861   26.994631  410.267927
```


```
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING                LOAD                >
                                          837

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S
```


```
 COMB DL-G3-1 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -1.584103  -23.923162   -9.036125
-357.014959  -39.933756 -242.665213
 0.25000   -1.584103  -23.915528   -9.036125
-357.028061  -32.573528 -214.777105
 0.50000   -1.584103  -23.908104   -9.036125
-357.043291  -26.140265 -186.889768
 0.75000   -1.584103  -23.901039   -9.036125
-357.060208  -20.858303 -159.004178
 1.00000   -1.584103  -23.894499   -9.036125
-357.078396  -16.824807 -131.123196

 COMB DL-G3-2 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    4.612705  154.175510     5.446103
73.198135   11.547329    1565.569
 0.25000    4.612705  154.182995     5.446103
73.177369   16.242666    1390.405
 0.50000    4.612705  154.191211     5.446103
73.157147   22.148796    1215.381
 0.75000    4.612705  154.200039     5.446103
73.137879   29.434613    1040.766
 1.00000    4.612705  154.209340     5.446103
73.120027   38.171131   866.973722

 COMB DL-G3-2 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -9.317265  -42.454397  -11.794586
-602.779974  -81.829295 -434.737993
 0.25000   -9.317265  -42.446768  -11.794586
-602.792770  -78.717476 -385.385627
 0.50000   -9.317265  -42.439350  -11.794586
-602.807935  -76.800023 -336.049851
 0.75000   -9.317265  -42.432291  -11.794586
-602.824781  -76.263591 -287.936823
 1.00000   -9.317265  -42.425756  -11.794586
-602.842895  -77.182283 -240.502370

 COMB DL-G3-3 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    7.050940  240.687652     4.203055
71.968445   24.740125    2600.397
 0.25000    7.050940  240.767895     4.203055
71.744085   31.724735    2330.184
 0.50000    7.050940  240.856641     4.203055
71.525617   39.857046    2059.790
 0.75000    7.050940  240.951990     4.203055
71.317446   49.210607    1791.284
 1.00000    7.050940  241.052448     4.203055
71.124582   59.815667    1524.384

 COMB DL-G3-3 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   -8.898154  -57.667167  -12.869613
-669.210498  -64.211927 -597.501983
 0.25000   -8.898154  -57.584774  -12.869613
-669.349104  -60.561679 -530.838585
 0.50000   -8.898154  -57.504648  -12.869613
-669.512969  -58.044855 -464.184617
 0.75000   -8.898154  -57.428400  -12.869613
-669.695009  -56.766483 -398.411767
 1.00000   -8.898154  -57.357820  -12.869613
-669.890737  -56.757217 -332.649424

 COMB DL-G3-4 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   14.496559  324.214120     8.719967
387.407659  65.944777    3573.891
 0.25000   14.496559  336.231908     8.719967
358.648928  75.358885    3275.359
 0.50000   14.496559  349.395102     8.719967
329.995135  86.158360    2955.127
 0.75000   14.496559  363.508765     8.719967
302.703802  98.438975    2618.204
 1.00000   14.496559  378.340855     8.719967
277.532120  112.241567   2265.960
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING                LOAD                >
                                          838

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-4 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -14.570952 -142.689500   -15.830237
-610.431543  -58.925602 -679.290180
 0.25000  -14.570955 -130.587280   -15.830237
-610.472401  -58.315672 -606.287650
 0.50000  -14.570955 -118.798247   -15.830237
-624.838284  -59.240733 -533.371400
 0.75000  -14.570955 -107.568795   -15.830237
-646.633395  -61.830216 -461.185511
 1.00000  -14.570955  -97.166160   -15.830237
-670.086785  -66.096981 -388.917394

 COMB DB ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   13.802343  396.947153    16.664638
712.283793  95.140664    4498.452
 0.25000   13.802343  424.339836    16.664638
712.283793  87.158875    4229.250
 0.50000   13.802343  454.266521    16.664638
712.283793  81.608700    3933.437
 0.75000   13.802343  486.271038    16.664638
712.283793  94.604746    3596.020
 1.00000   13.802343  519.592695    16.664638
712.283793 108.670357    3219.140

 COMB DB ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -20.319414 -273.450825   -14.376920
-549.381281  -84.537453 -532.410214
 0.25000  -20.319414 -235.854125   -14.376920
-549.390531  -83.970613 -475.520034
 0.50000  -20.319414 -197.816802   -14.376920
-549.411829  -84.148520 -418.630845
 0.75000  -20.319414 -162.076857   -14.376920
-549.437393  -85.112542 -361.744671
 1.00000  -20.319414 -129.250579   -14.376920
-549.475977  -97.027365 -304.858968

 COMB DL ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   17.255779  395.329197    20.701141
844.917316  97.750733    4574.908
 0.25000   17.255779  418.540787    20.701141
848.229836  91.189368    4272.111
 0.50000   17.255779  443.760259    20.701141
851.542356  87.432283    3927.889
 0.75000   17.255779  470.617067    20.701141
854.854876  98.438975    3549.499
 1.00000   17.255779  498.589077    20.701141
858.167396 112.241567    3139.838

 COMB DL ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -27.347203 -223.966280   -15.830237
-669.210498  -81.829295 -693.235411
 0.25000  -27.347203 -199.571321   -15.830237
-669.349104  -78.717476 -618.893852
 0.50000  -27.347203 -177.361921   -15.830237
-669.512969  -76.800023 -544.738921
 0.75000  -27.347203 -156.384074   -15.830237
-669.695009  -88.338172 -470.792100
 1.00000  -27.347203 -136.855576   -15.830237
-670.086785 -108.144879 -397.153966

 COMB CAR ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   17.255779  396.947153    20.701141
844.917316  97.750733    4574.908
 0.25000   17.255779  424.339836    20.701141
848.229836  91.189368    4272.111
 0.50000   17.255779  454.266521    20.701141
851.542356  87.432283    3933.437
 0.75000   17.255779  486.271038    20.701141
854.854876  98.438975    3596.020
 1.00000   17.255779  519.592695    20.701141
858.167396 112.241567    3219.140
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING                LOAD                >
                                          839

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB CAR ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -27.347203 -273.450825   -15.830237
-669.210498  -84.537453 -693.235411
 0.25000  -27.347203 -235.854125   -15.830237
-669.349104  -83.970613 -618.893852
 0.50000  -27.347203 -197.816802   -15.830237
-669.512969  -84.148520 -544.738921
 0.75000  -27.347203 -162.076857   -15.830237
-669.695009  -88.338172 -470.792100
 1.00000  -27.347203 -136.855576   -15.830237
-670.086785 -108.144879 -397.153966

 COMB DESIGN ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   17.255779  396.947153    20.701141
844.917316  97.750733    4574.908
 0.25000   17.255779  424.339836    20.701141
848.229836  91.189368    4272.111
 0.50000   17.255779  454.266521    20.701141
851.542356  87.432283    3933.437
 0.75000   17.255779  486.271038    20.701141
854.854876  98.438975    3596.020
 1.00000   17.255779  519.592695    20.701141
858.167396 112.241567    3219.140

 COMB DESIGN ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -27.347203 -273.450825   -15.830237
-669.210498  -84.537453 -693.235411
 0.25000  -27.347203 -235.854125   -15.830237
-669.349104  -83.970613 -618.893852
 0.50000  -27.347203 -197.816802   -15.830237
-669.512969  -84.148520 -544.738921
 0.75000  -27.347203 -162.076857   -15.830237
-669.695009  -88.338172 -470.792100
 1.00000  -27.347203 -136.855576   -15.830237
-670.086785 -108.144879 -397.153966

 ELEM      52 ========== LENGTH =    4.988071

 COMB DB-G1-1 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    2.779435   285.262613     5.540204
614.831071  12.751690    1892.847
 0.25000    2.779435   313.626227     5.540204
614.831071  11.960349    1687.631
 0.50000    2.779435   345.301832     5.540204
614.831071  11.169107    1417.497
 0.75000    2.779435   380.040977     5.540204
614.831071  10.377974    1077.293
 1.00000    2.779435   416.624502     5.540204
614.831071   9.587023   655.829832

 COMB DB-G1-1 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -13.348134 -128.538329   -0.957220
-55.100404  -51.052930 -123.137282
 0.25000  -13.348134  -93.935053   -0.957220
-55.100404  -51.494437 -100.289794
 0.50000  -13.348134  -60.660200   -0.957220
-55.100404  -52.516178  -77.442346
 0.75000  -13.348134  -42.540398   -0.957220
-55.100404  -54.463337  -54.594926
 1.00000  -13.348134  -23.885789   -0.957220
-55.100404  -57.808414  -31.773851

 COMB DB-G1-2 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000   13.573457  447.020444    10.036277
702.432102  95.421998    2947.406
 0.25000   13.573457  482.028439    10.036277
702.432102  90.408727    2565.065
 0.50000   13.573457  521.067365    10.036277
702.432102  85.396336    2115.121
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING                LOAD                >
                                          840

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  REL DIST          P          V2          V3
         T         M2          M3
 0.75000   13.573457  563.848194    10.036277
702.432102  80.385235    1586.209
 1.00000   13.573457  609.662958    10.036277
702.432102  75.375937   974.300370

 COMB DB-G1-2 ---------- MIN

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000  -16.218220 -171.403622   -1.350273
-154.028243  -60.277335 -217.815396
 0.25000  -16.218220 -127.864024   -1.350273
-154.028243  -60.341673 -177.129268
 0.50000  -16.218220  -86.284803   -1.350273
-154.028243  -60.875718 -136.443140
 0.75000  -16.218220  -63.290393   -1.350273
-154.028243  -62.262845  -95.757713
 1.00000  -16.218220  -39.635331   -1.350273
-154.028243  -65.025769  -55.271759

 COMB DB-G1-3 ---------- MAX

  REL DIST          P          V2          V3
         T         M2          M3
 0.00000    9.528863   493.391457     8.157498
628.056656  66.615774    3218.160
 0.25000    9.528863   525.478752     8.157498
628.056656  64.492725    2763.194
```

```
 0.50000      9.528863   561.259500     8.157498
628.056656    62.696404    2245.272
 0.75000      9.528863   600.466494     8.157498
628.056656    60.943424    1653.614
 1.00000      9.528863   642.513935     8.157498
628.056656    59.242599   981.650886

 COMB DB-G1-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -15.556118  -170.661377    -2.065135
-323.902991   -56.756956  -285.446416
 0.25000   -15.556518  -130.687029    -2.065135
-323.902991   -56.775985  -231.520195
 0.50000   -15.556518   -92.535448    -2.065135
-323.902991   -57.221252  -177.593973
 0.75000   -15.556518   -71.409935    -2.065135
-323.902991   -58.415045  -123.667752
 1.00000   -15.556518   -49.678532    -2.065135
-323.902991   -60.844467   -69.772093

 COMB DB-G1-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     8.648808   458.126982     6.943933
541.415553    64.871787    2956.528
 0.25000     8.648808   484.877626     6.943933
541.415553    63.331512    2518.861
 0.50000     8.648808   514.707404     6.943933
541.415553    62.016770    2028.728
 0.75000     8.648808   547.393484     6.943933
541.415553    60.869255    1477.098
 1.00000     8.648808   582.449370     6.943933
541.415553    59.912192   858.471144

 COMB DB-G1-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -19.170642  -152.952404    -5.667981
-462.334592   -98.372937  -304.726112
 0.25000   -19.170642  -119.624456    -5.667981
-462.334592   -94.634648  -246.465707
 0.50000   -19.170642  -87.816891     -5.667981
-462.334592   -91.251589  -188.205302
 0.75000   -19.170642   -70.203431    -5.667981
-462.334592   -88.491702  -129.944896
 1.00000   -19.170642   -52.084839    -5.667981
-462.334592   -86.761137   -74.966359

 COMB DB-G2-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    12.107619   151.083740     3.603707
37.381058    93.604264   972.869737
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD                >
                                841

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST            P            V2           V3
        T           M2           M3
 0.25000    12.107619   151.098071     3.603707
37.335026    89.113107   784.660926
 0.50000    12.107619   151.114018     3.603707
37.302593    84.622355   599.957665
 0.75000    12.107619   151.131420     3.603707
37.267148    80.132746   421.809872
 1.00000    12.107619   151.151509     3.603707
37.252426    75.644413   258.082007

 COMB DB-G2-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -2.385367   -16.503102    -0.287178
-160.113644    -6.386962  -107.844910
 0.25000    -2.385367   -16.483638    -0.287178
-160.133849    -6.101971   -87.343049
 0.50000    -2.385367   -16.465590    -0.287178
-160.161807    -5.822276   -66.841188
 0.75000    -2.385367   -16.454955    -0.287178
-160.199727    -5.562455   -46.341377
 1.00000    -2.385367   -16.444041    -0.287178
-160.251847    -5.317927   -25.852330

 COMB DB-G2-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     8.235418   235.270260     2.444947
36.750004    86.863038   1481.286
 0.25000     8.235418   235.284591     2.444947
36.708972    65.372453   1186.978
 0.50000     8.235418   235.300538     2.444947
36.676540    64.047055   896.931382
 0.75000     8.235418   235.317940     2.444947
36.641094    62.802062   613.235962
 1.00000     8.235418   235.338029     2.444947
36.626373    61.600661   342.543601

 COMB DB-G2-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -7.580447   -31.154164    -3.174570
-387.467976   -44.375318  -201.265565
 0.25000    -7.580447   -31.134699    -3.174570
-387.488181   -41.754688  -162.494387
 0.50000    -7.580447   -31.116652    -3.174570
-387.516139   -39.138911  -123.723209
 0.75000    -7.580447   -31.106017    -3.174570
-387.554059   -36.542950  -84.9552031
 1.00000    -7.580447   -31.095102    -3.174570
-387.606179   -33.962263   -50.629168

 COMB DB-G2-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     9.814635   428.223193     6.620130
439.477570    92.477210    2757.090
 0.25000     9.814635   454.165407     6.620130
403.336174    87.653871    2349.519
 0.50000     9.814635   483.066276     6.620130
377.744002    82.886755    1890.974
 0.75000     9.814635   514.674676     6.620130
377.744002    78.215829    1372.548
 1.00000     9.814635   549.757023     6.620130
377.744002    74.226018   789.852878

 COMB DB-G2-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -14.194175  -149.951579    -3.416835
-382.487561   -67.857009  -278.704234
 0.25000   -14.194175  -116.294935    -3.416835
-382.487561   -65.422647  -225.651713
 0.50000   -14.194175   -84.613642    -3.416835
-382.487561   -63.213502  -172.599192
 0.75000   -14.194175   -66.538240    -3.416835
-382.487561   -61.371634  -119.546948
 1.00000   -14.194175   -47.965878    -3.416835
-421.029111   -59.922924   -70.535152
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD                >
                                842

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     9.201417   396.956530     5.679242
388.640984    89.251946    2531.776
 0.25000     9.201417   418.564727     5.679242
358.537523    85.457636    2142.078
 0.50000     9.201417   442.637294     5.679242
337.220888    81.926525    1709.864
 0.75000     9.201417   468.965060     5.679242
337.220888    78.700936    1227.883
 1.00000     9.201417   498.186401     5.679242
337.220888    76.354791   692.408430

 COMB DB-G2-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -13.708925  -135.499397    -6.454436
-512.256727   -76.936576  -297.901477
 0.25000   -13.708925  -107.465575    -6.454436
-512.256727   -71.941234  -240.494406
 0.50000   -13.708925   -81.077094    -6.454436
-512.256727   -67.669226  -183.087335
 0.75000   -13.708925   -66.021446    -6.454436
-512.256727   -63.826152  -125.680495
 1.00000   -13.708925   -50.551861    -6.454436
-544.359361   -60.310682   -70.953370

 COMB DB-G3-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     2.656220    57.017008     0.256284
37.688873    22.549537   334.334259
 0.25000     2.656220    57.031342     0.256284
37.642475    23.182272   263.300824
 0.50000     2.656220    57.047293     0.256284
37.609987    24.098024   192.242194
 0.75000     2.656220    57.064699     0.256284
37.574485    25.414477   121.155962
 1.00000     2.656220    57.084796     0.256284
37.559527    27.359974    50.047498

 COMB DB-G3-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -1.062946   -16.165334    -5.238877
-295.099899   -14.432755   -99.486457
 0.25000    -1.062946   -16.145860    -5.238877
-295.119547    -8.507871   -79.406446
 0.50000    -1.062946   -16.127806    -5.238877
-295.147548    -5.781240   -59.326435
 0.75000    -1.062946   -16.117165    -5.238877
-295.185798    -5.486817   -39.247642
 1.00000    -1.062946   -16.102425    -5.238877
-295.237995    -5.192579   -19.403055

 COMB DB-G3-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     3.428678   124.582133     0.461561
53.095751    31.697089   736.037427
 0.25000     3.428678   124.596464     0.461561
53.049719    32.282039   580.757555
 0.50000     3.428678   124.612411     0.461561
53.017286    33.194239   425.581471
 0.75000     3.428678   124.629813     0.461561
52.981841    34.582608   270.618539
 1.00000     3.428678   124.649902     0.461561
52.967120    36.693258   116.216485

 COMB DB-G3-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -9.439650   -29.037172    -9.790183
-513.384917   -87.789203  -180.910831
 0.25000    -9.439650   -29.017707    -9.790183
-513.405123   -76.916410  -144.780046
 0.50000    -9.439650   -28.999660    -9.790183
-513.433080   -66.568337  -108.649260
 0.75000    -9.439650   -28.989025    -9.790183
-513.471000   -58.134891   -72.519410
 1.00000    -9.439650   -28.978111    -9.790183
-513.523120   -53.700648   -42.778573
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD                >
                                843

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     4.953294   219.796813     0.801349
49.170870    43.587526   1349.992
 0.25000     4.953294   219.809711     0.801349
49.124641    45.017450   1074.965
 0.50000     4.953294   219.824063     0.801349
49.095452    46.738712   801.325557
 0.75000     4.953294   219.839725     0.801349
49.063551    48.874439   528.307116
 1.00000     4.953294   219.857805     0.801349
49.050302    51.635203   256.212864

 COMB DB-G3-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -6.412617   -40.092243    -8.072797
-617.513752   -55.063468  -253.699466
 0.25000    -6.412617   -40.074725    -8.072797
-617.531936   -46.947424  -203.774653
 0.50000    -6.412617   -40.058482    -8.072797
-617.557098   -39.332719  -153.849841
 0.75000    -6.412617   -40.048911    -8.072797
-617.591226   -32.859663  -103.925839
 1.00000    -6.412617   -40.039088    -8.072797
-617.638134   -30.378432   -57.756506

 COMB DB-G3-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    12.094597   346.309716     4.696597
292.081804   105.758189    2187.184
 0.25000    12.094597   361.205639     4.696597
266.601949   102.398519    1826.854
 0.50000    12.094597   377.790933     4.696597
237.649193    99.373742    1466.110
 0.75000    12.094597   395.909890     4.696597
215.038111    96.721903    1016.799
 1.00000    12.094597   416.423092     4.696597
215.038111    94.590508   562.635677

 COMB DB-G3-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -9.488966   -108.633726    -7.174453
-562.051097   -59.953901  -292.131084
 0.25000    -9.488966   -88.853884     -7.174453
-562.051097   -53.047475  -235.432901
 0.50000    -9.488966   -70.378089     -7.174453
-574.692539   -46.605527  -178.734717
 0.75000    -9.488966   -59.660739     -7.174453
-601.660476   -41.257694  -122.037996
 1.00000    -9.488966   -48.655624     -7.174453
-629.712677   -39.435765   -68.459304

 COMB DL-G1-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     5.877840   265.782249     5.713866
756.497080    23.975958    1746.563
 0.25000     5.877840   291.667470     5.713866
765.105337    22.265093    1520.921
 0.50000     5.877840   320.170050     5.713866
773.713594    20.554098    1251.805
 0.75000     5.877840   350.983515     5.713866
782.321850    18.843392   935.817060
 1.00000     5.877840   383.753276     5.713866
790.930107    17.130626   570.612230

 COMB DL-G1-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -20.786012  -115.608166    -1.717039
-73.704343   -78.139960  -158.497278
 0.25000   -20.786012   -95.941318    -1.717039
-73.704343   -79.788511  -128.331023
 0.50000   -20.786012   -76.312754    -1.717039
-73.704343   -81.636065   -98.269539
 0.75000   -20.786012   -57.273666    -1.717039
-73.704343   -83.822479   -68.316970
 1.00000   -20.786012   -39.367706    -1.717039
-73.704343   -86.532921   -38.595584
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD                >
                                844

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    16.411149   436.127925    10.288400
894.740668   102.654670    2764.967
 0.25000    16.411149   467.132323    10.288400
898.053849    96.459111    2366.347
 0.50000    16.411149   501.320161    10.288400
901.367029    90.274166    1915.986
 0.75000    16.411149   538.324454    10.288400
904.680209    84.111211    1414.455
 1.00000    16.411149   577.735644    10.288400
907.995050    77.970281   869.629432

 COMB DL-G1-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -25.245163  -155.762726    -2.163961
-181.166890   -97.383545  -282.976486
 0.25000   -25.245163  -131.609318    -2.163961
-181.166890   -89.024916  -229.035254
 0.50000   -25.245163  -107.549233    -2.163961
-181.166890   -90.867646  -175.243670
 0.75000   -25.245163   -84.232758    -2.163961
-181.166890   -93.085976  -121.474099
 1.00000   -25.245163   -62.315099    -2.163961
-181.166890   -95.774417   -68.022506

 COMB DL-G1-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    13.959843   507.561996     8.680933
801.166396    86.279424    3138.105
 0.25000    13.959843   535.989723     8.680933
803.562506    82.421088    2650.166
 0.50000    13.959843   567.332048     8.680933
805.958615    78.833605    2114.634
 0.75000    13.959843   601.269390     8.680933
808.354725    75.514851    1530.982
 1.00000    13.959843   637.413109     8.680933
810.752424    71.904168   904.191046

 COMB DL-G1-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -24.513766  -162.151185    -2.980760
-384.272526   -85.197837  -373.915563
 0.25000   -24.513766  -139.951686    -2.980760
-384.272526   -86.516974  -302.108206
 0.50000   -24.513766  -117.842965    -2.980760
-384.272526   -88.203565  -230.448450
 0.75000   -24.513766   -96.419533    -2.980760
-384.272526   -89.861179  -158.935142
 1.00000   -24.513766   -76.282469    -2.980760
-384.272526   -92.121786   -88.193219

 COMB DL-G1-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    12.694225   482.483899     7.440736
688.989988    82.026814    2929.523
 0.25000    12.694225   506.179785     7.440736
690.987254    79.163502    2455.185
 0.50000    12.694225   532.305039     7.440736
692.984520    76.608884    1941.280
 0.75000    12.694225   560.590857     7.440736
694.981786    74.292250    1387.536
 1.00000    12.694225   590.720791     7.440736
696.980378    72.310355   798.751895

 COMB DL-G1-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -25.221006  -149.527686    -6.147541
-557.031346  -110.585231  -397.006968
 0.25000   -25.221006  -131.023393    -6.147541
-557.031346  -108.300341  -321.002348
 0.50000   -25.221006  -112.594769    -6.147541
-557.031346  -106.423288  -246.140758
 0.75000   -25.221006   -94.737364    -6.147541
-557.031346  -105.017618  -171.587673
 1.00000   -25.221006   -77.952205    -6.147541
-557.031346  -104.147289   -98.640740
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD                >
                                845

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    11.099783   169.874916     3.703580
56.203903    86.284739   991.668501
 0.25000    11.099783   169.883527     3.703580
56.181644    81.716433   803.158728
 0.50000    11.099783   169.893122     3.703580
56.159641    77.157598   615.648914
 0.75000    11.099783   169.903585     3.703580
56.138344    72.618389   431.020338
 1.00000    11.099783   169.914815     3.703580
56.118371    68.092274   258.250052

 COMB DL-G2-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -3.783998   -23.024167    -0.505385
-162.855355   -10.619598  -139.965731
 0.25000    -3.783998   -23.016515    -0.505385
-162.870736   -10.064900  -113.044918
 0.50000    -3.783998   -23.008965    -0.505385
-162.888854    -9.522673   -86.144054
 0.75000    -3.783998   -23.001681    -0.505385
-162.909426    -8.998824   -59.250381
 1.00000    -3.783998   -22.994848    -0.505385
-162.932147    -8.505436   -32.312889

 COMB DL-G2-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     9.023270   278.306317     2.621890
56.332467    70.411163    1583.158
 0.25000     9.023270   278.314928     2.621890
56.310200    68.408434    1271.491
 0.50000     9.023270   278.324524     2.621890
56.288190    66.562467   960.416717
 0.75000     9.023270   278.334988     2.621890
56.266887    64.803100   653.140700
 1.00000     9.023270   278.346218     2.621890
56.246879    63.130415   357.344479

 COMB DL-G2-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -8.505619    -43.729453    -3.115375
-443.463150   -41.838825  -264.791922
 0.25000    -8.505619    -43.721800    -3.115375
-443.478539   -39.371038  -214.608176
 0.50000    -8.505619    -43.714249    -3.115375
-443.496666   -36.940328  -164.517566
 0.75000    -8.505619    -43.706864    -3.115375
-443.517247   -34.566738  -114.663151
 1.00000    -8.505619    -43.700131    -3.115375
-443.539978   -32.272280   -65.463786

 COMB DL-G2-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    13.876856   451.782397     7.086363
564.201510    99.611911    2734.742
 0.25000    13.876856   475.641729     7.086363
523.672090    94.400084    2296.735
 0.50000    13.876856   502.084266     7.086363
490.586656    89.612484    1818.010
 0.75000    13.876856   530.810985     7.086363
480.196413    85.246572    1297.271
 1.00000    13.876856   561.526808     7.086363
473.275129    81.310711   737.718649

 COMB DL-G2-3 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -18.922619  -148.690849    -3.781865
-445.850932   -74.999612  -369.625696
 0.25000   -18.922619  -128.809761    -3.781865
-445.874342   -72.813172  -320.828315
 0.50000   -18.922619  -109.103789    -3.781865
-445.878731   -71.066853  -232.098539
 0.75000   -18.922619   -90.060059    -3.781865
-466.800547   -69.778063  -163.516293
 1.00000   -18.922619   -72.172400    -3.781865
-506.737308   -69.104124   -95.897910
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD                >
                                846

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    13.067962   430.085259     6.111599
497.568354    95.908575    2564.587
 0.25000    13.067962   449.961805     6.111599
463.804422    92.239426    2138.406
 0.50000    13.067962   471.990347     6.111599
436.243533    89.189501    1678.316
 0.75000    13.067962   495.927978     6.111599
427.586045    86.809999    1183.265
 1.00000    13.067962   521.510275     6.111599
421.820115    85.231320   656.161442

 COMB DL-G2-4 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -17.347851  -138.622980    -6.666435
-617.595192   -81.425601  -393.479609
 0.25000   -17.347851  -122.060600    -6.666435
-617.614694   -76.608329  -318.771413
 0.50000   -17.347851  -105.644102    -6.666435
-617.618350   -72.665992  -244.118662
 0.75000   -17.347851   -89.779300    -6.666435
-635.047734   -69.591538  -171.027592
 1.00000   -17.347851   -74.877589    -6.666435
-668.317938   -67.646755   -98.597553

 COMB DL-G3-1 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     3.962919    76.447026     0.368395
46.405897    24.826102   412.009388
 0.25000     3.962919    76.455639     0.368395
46.383608    26.472642   324.835767
 0.50000     3.962919    76.465236     0.368395
46.361577    28.809344   237.651540
 0.75000     3.962919    76.475700     0.368395
46.340254    32.440647   150.474501
 1.00000     3.962919    76.486932     0.368395
46.320140    36.654154    63.321103

 COMB DL-G3-1 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -1.240254   -22.583055    -5.103177
-375.199028   -16.574162  -131.309887
 0.25000    -1.240254   -22.575399    -5.103177
-375.214441   -12.170144  -104.937408
 0.50000    -1.240254   -22.567846    -5.103177
-375.232593    -8.824930   -78.663883
 0.75000    -1.240254   -22.560559    -5.103177
-375.253202    -8.345767   -52.392821
 1.00000    -1.240254   -22.553724    -5.103177
-375.275962    -8.186542   -26.377181

 COMB DL-G3-2 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     4.853049   162.129861     0.614368
64.958816    34.933480   869.923119
 0.25000     4.853049   162.138471     0.614368
64.936585    36.538629   685.628614
 0.50000     4.853049   162.148064     0.614368
64.914611    38.792732   501.485509
 0.75000     4.853049   162.158525     0.614368
64.893341    42.002851   317.857730
 1.00000     4.853049   162.169752     0.614368
64.873508    46.545544   135.729744

 COMB DL-G3-2 ------------------ MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -8.577555   -40.413028    -9.310246
-647.354738   -76.745984  -240.721748
 0.25000    -8.577555   -40.405379    -9.310246
-647.370088   -67.913207  -195.161220
 0.50000    -8.577555   -40.397832    -9.310246
-647.388172   -59.713871  -149.754542
 0.75000    -8.577555   -40.390551    -9.310246
-647.408707   -52.900751  -104.764728
 1.00000    -8.577555   -40.383721    -9.310246
-647.431389   -48.859417   -61.833012
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD                >
                                847

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 ------------------ MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     7.443901   274.310345     1.036873
61.580263    55.750830    1527.694
 0.25000     7.443901   274.403239     1.036873
61.340096    57.177641    1217.332
 0.50000     7.443901   274.506953     1.036873
61.102697    59.231919   906.940802
 0.75000     7.443901   274.619934     1.036873
60.872905    62.116037   596.596635
 1.00000     7.443901   274.741196     1.036873
60.658332    66.111852   287.017321
```

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.617404	-56.290037	-7.797456
-746.708638	-56.499348	-332.811891	
0.25000	-7.617404	-56.207419	-7.797456
-746.874500	-49.578752	-268.438177	
0.50000	-7.617404	-56.125904	-7.797456
-747.069897	-43.211553	-204.156877	
0.75000	-7.617404	-56.047257	-7.797456
-747.291778	-37.905939	-140.125434	
1.00000	-7.617404	-55.973493	-7.797456
-747.536846	-35.057256	-76.818369	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.641515	387.276509	5.058434
370.508326	108.981736	2267.845	
0.25000	14.641515	401.304724	5.058434
339.011495	105.840733	1873.181	
0.50000	14.641515	416.897179	5.058434
307.486432	103.282983	1454.443	
0.75000	14.641515	433.869176	5.058434
276.908809	101.565844	1011.534	
1.00000	14.641515	452.053933	5.058434
269.206879	100.992825	548.102129	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.779000	-117.462669	-7.234918
-678.293685	-67.266148	-388.982745	
0.25000	-12.779000	-105.360078	-7.234918
-680.555937	-61.126339	-315.314531	
0.50000	-12.779000	-93.391648	-7.234918
-704.537559	-55.585241	-241.660192	
0.75000	-12.779000	-81.838921	-7.234918
-732.144898	-51.133473	-168.202487	
1.00000	-12.779000	-70.995626	-7.234918
-762.841605	-48.959293	-95.542698	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.573457	493.391457	10.036277
702.432102	105.758189	3218.160	
0.25000	13.573457	525.478752	10.036277
702.432102	102.398519	2763.194	
0.50000	13.573457	561.259500	10.036277
702.432102	99.373742	2245.272	
0.75000	13.573457	600.466494	10.036277
702.432102	96.721903	1653.614	
1.00000	13.573457	642.513935	10.036277
702.432102	94.590508	981.650886	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.170642	-171.403622	-9.790183
-617.513752	-98.372937	-304.726112	
0.25000	-19.170642	-130.687029	-9.790183
-617.531936	-94.634648	-246.465707	
0.50000	-19.170642	-92.535448	-9.790183
-617.557098	-91.251589	-188.205302	
0.75000	-19.170642	-71.409935	-9.790183
-617.591226	-88.491702	-129.944896	
1.00000	-19.170642	-52.084839	-9.790183
-629.712677	-86.761137	-74.966359	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
848

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.411149	507.561896	10.288400
894.740668	108.981736	3138.105	
0.25000	16.411149	535.989723	10.288400
898.053849	105.840733	2650.166	
0.50000	16.411149	567.332048	10.288400
901.367029	103.282983	2114.634	
0.75000	16.411149	601.266390	10.288400
904.680209	101.565844	1530.982	
1.00000	16.411149	637.413109	10.288400
907.995050	100.992825	904.191046	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.245163	-162.151185	-9.310246
-746.708638	-110.585231	-397.006968	
0.25000	-25.245163	-139.951686	-9.310246
-746.874500	-108.300341	-321.002348	
0.50000	-25.245163	-117.842965	-9.310246
-747.069897	-106.423288	-246.140758	
0.75000	-25.245163	-96.419533	-9.310246
-747.291778	-105.017618	-171.587673	
1.00000	-25.245163	-77.952205	-9.310246
-762.841605	-104.147289	-98.640740	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.411149	507.561896	10.288400
894.740668	108.981736	3218.160	
0.25000	16.411149	535.989723	10.288400
898.053849	105.840733	2763.194	
0.50000	16.411149	567.332048	10.288400
901.367029	103.282983	2245.272	
0.75000	16.411149	601.266390	10.288400
904.680209	101.565844	1653.614	
1.00000	16.411149	642.513935	10.288400
907.995050	100.992825	981.650886	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.245163	-171.403622	-9.790183
-746.708638	-110.585231	-397.006968	
0.25000	-25.245163	-139.951686	-9.790183
-746.874500	-108.300341	-321.002348	
0.50000	-25.245163	-117.842965	-9.790183
-747.069897	-106.423288	-246.140758	
0.75000	-25.245163	-96.419533	-9.790183
-747.291778	-105.017618	-171.587673	
1.00000	-25.245163	-77.952205	-9.790183
-762.841605	-104.147289	-98.640740	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.411149	507.561896	10.288400
894.740668	108.981736	3218.160	
0.25000	16.411149	535.989723	10.288400
898.053849	105.840733	2763.194	
0.50000	16.411149	567.332048	10.288400
901.367029	103.282983	2245.272	
0.75000	16.411149	601.266390	10.288400
904.680209	101.565844	1653.614	
1.00000	16.411149	642.513935	10.288400
907.995050	100.992825	981.650886	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.245163	-171.403622	-9.790183
-746.708638	-110.585231	-397.006968	
0.25000	-25.245163	-139.951686	-9.790183
-746.874500	-108.300341	-321.002348	
0.50000	-25.245163	-117.842965	-9.790183
-747.069897	-106.423288	-246.140758	
0.75000	-25.245163	-96.419533	-9.790183
-747.291778	-105.017618	-171.587673	
1.00000	-25.245163	-77.952205	-9.790183
-762.841605	-104.147289	-98.640740	

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.366819	443.962672	7.611683
452.253722	10.522852	654.844655	
0.25000	2.366819	453.971191	7.611683
452.253722	7.678267	500.271427	
0.50000	2.366819	464.495253	7.611683
452.253722	4.833684	338.638592	
0.75000	2.366819	475.276496	7.611683
452.253722	1.991908	169.257677	
1.00000	2.366819	486.144919	7.611683
452.253722	1.971791	2.212172	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.448210	-22.438542	-41.319239
-42.785603	-59.857894	-31.699655	
0.25000	-12.448210	-22.438542	-41.319239
-42.785603	-44.408523	-23.311039	
0.50000	-12.448210	-22.438542	-41.319239
-42.785603	-28.959165	-14.922488	
0.75000	-12.448210	-22.438542	-41.319239
-42.785603	-13.510163	-6.533421	
1.00000	-12.448210	-22.438542	-41.319239
-42.785603	-1.157256	-12.439485	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.348069	650.635498	51.168319
530.263330	75.912224	973.691298	
0.25000	13.348069	663.344467	51.168319
530.263330	56.782402	745.084763	
0.50000	13.348069	676.695893	51.168319
530.263330	37.653273	507.491561	
0.75000	13.348069	690.358683	51.168319
530.263330	18.529326	260.107230	
1.00000	13.348069	704.126727	51.168319
530.263330	3.562129	14.372998	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.660781	-38.919278	-47.649424
-188.591363	-68.250133	-55.159130	
0.25000	-14.660781	-38.688265	-47.649424
-188.591363	-50.435038	-40.699470	
0.50000	-14.660781	-38.688265	-47.649424
-188.591363	-32.620082	-26.240104	
0.75000	-14.660781	-38.688265	-47.649424
-188.591363	-14.817831	-11.779865	
1.00000	-14.660781	-38.688265	-47.649424
-188.591363	-1.663466	-14.268978	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.798130	656.266646	38.505813
474.729629	58.326848	981.708569	
0.25000	9.798130	667.943264	38.505813
474.729629	43.931330	749.816214	
0.50000	9.798130	680.209255	38.505813
474.729629	29.536480	509.685987	
0.75000	9.798130	692.760200	38.505813
474.729629	15.171820	260.516683	
1.00000	9.798130	705.407448	38.505813
474.729629	4.739421	10.793987	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.529421	-49.671735	-44.272376
-288.722408	-63.610676	-359.696866	
0.25000	-13.529421	-48.671251	-44.272376
-288.722408	-47.059981	-51.499451	
0.50000	-13.529421	-48.671251	-44.272376
-288.722408	-30.510720	-33.302293	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
850

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-13.529421	-48.671251	-44.272376
-288.722408	-13.980132	-15.107495	
1.00000	-13.529421	-48.671251	-44.272376
-288.722408	-1.927265	-13.220221	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.138227	573.903921	37.674879
407.275971	57.971927	859.098977	
0.25000	9.138227	583.639354	37.674879
407.275971	43.897098	655.798345	
0.50000	9.138227	593.866153	37.674879
407.275971	29.824298	445.623184	
0.75000	9.138227	604.330500	37.674879
407.275971	15.769887	227.943015	
1.00000	9.138227	614.875129	37.674879
407.275971	5.115021	10.356985	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.406611	-50.577590	-61.313872
-373.149033	-89.296427	-74.882325	
0.25000	-17.406611	-49.720221	-61.313872
-373.149033	-66.373270	-56.389930	
0.50000	-17.406611	-49.720221	-61.313872
-373.149033	-43.451320	-37.897535	
0.75000	-17.406611	-49.720221	-61.313872
-373.149033	-20.544686	-20.856923	
1.00000	-17.406611	-49.720221	-61.313872
-373.149033	-2.042620	-17.726667	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.461400	167.101222	49.706519
36.757976	74.903118	258.529712	
0.25000	12.461400	167.107120	49.706519
36.744976	56.317727	196.094842	
0.50000	12.461400	167.113290	49.706519
36.731556	37.732339	133.711179	
0.75000	12.461400	167.119575	49.706519
36.717971	19.147025	71.323289	
1.00000	12.461400	167.125898	49.706519
36.704316	1.832757	13.901964	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.675621	-17.924106	-4.462069
-187.082489	-6.022550	-25.833307	
0.25000	-1.675621	-17.920037	-4.462069
-187.097829	-4.355685	-19.147573	
0.50000	-1.675621	-17.915904	-4.462069
-187.113885	-2.688970	-12.465534	
0.75000	-1.675621	-17.911729	-4.462069
-187.130205	-1.035853	-5.783293	
1.00000	-1.675621	-17.907532	-4.462069
-187.146595	-0.519146	-1.347605	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.937420	225.044615	37.887247
40.750554	58.93217	343.686966	
0.25000	8.937420	225.050513	37.887247
40.737054	44.780254	259.587455	
0.50000	8.937420	225.056682	37.887247
40.723634	30.629027	175.493030	
0.75000	8.937420	225.062967	37.887247
40.710049	16.491319	91.423611	
1.00000	8.937420	225.069291	37.887247
40.696394	3.440908	10.421540	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.412734	-31.811426	-23.602923
-335.762492	-34.640828	-50.545509	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
851

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-6.412734	-31.807358	-23.602923
-335.777832	-25.818647	-38.793057	
0.50000	-6.412734	-31.803225	-23.602923
-335.793887	-16.998085	-27.041444	
0.75000	-6.412734	-31.799050	-23.602923
-335.810208	-8.198160	-15.293236	
1.00000	-6.412734	-31.794853	-23.602923
-335.826598	-0.999259	-6.651036	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.634245	523.828115	46.164949
287.938161	71.420259	790.562040	
0.25000	10.634245	533.834892	46.164949
287.938161	54.175985	606.505408	
0.50000	10.634245	544.325215	46.164949
287.938161	36.946412	415.361785	
0.75000	10.634245	555.036163	46.164949
287.938161	19.727934	216.503394	
1.00000	10.634245	565.821547	46.164949
287.938161	4.680874	12.336333	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.411651	-62.881422	-42.955654
-317.957419	-62.147190	-70.403844	
0.25000	-12.411651	-56.670652	-42.955654
-330.966474	-46.088477	-53.260146	
0.50000	-12.411651	-50.339317	-42.955654
-345.493001	-30.029733	-36.116026	
0.75000	-12.411651	-46.171126	-42.955654
-360.246623	-14.005655	-18.980710	
1.00000	-12.411651	-46.171126	-42.955654
-375.131565	-1.679171	-12.411286	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.477099	458.506144	46.558275
254.894499	72.762922	693.584322	
0.25000	10.477099	466.841146	46.558275
254.894499	55.364936	531.907001	
0.50000	10.477099	475.578911	46.558275
254.894499	37.972319	364.505190	
0.75000	10.477099	484.500443	46.558275
254.894499	20.591631	190.596398	
1.00000	10.477099	493.483975	46.558275
254.894499	5.059358	12.399363	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.106088	-61.027847	-43.072397
-403.065915	-62.426668	-70.931081	
0.25000	-12.106088	-55.854675	-43.072397
-413.901622	-46.223956	-53.395343	
0.50000	-12.106088	-50.581080	-43.072397
-426.001286	-30.223709	-35.861537	
0.75000	-12.106088	-47.109244	-43.072397
-438.290105	-14.147562	-18.332841	
1.00000	-12.106088	-47.109244	-43.072397
-450.688306	-1.882037	-12.229210	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.495533	31.266760	15.839534
25.174937	25.412723	50.942483	
0.25000	3.495533	31.272661	15.839534
25.161914	19.493016	39.266464	
0.50000	3.495533	31.278834	15.839534
25.148470	13.573778	27.586063	
0.75000	3.495533	31.285122	15.839534
25.134861	7.654590	15.908814	
1.00000	3.495533	31.291449	15.839534
25.121182	1.771767	4.335702	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
852

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.671964	-12.844757	-2.937678
-214.885346	-4.767004	-19.511831	
0.25000	-0.671964	-12.840684	-2.937678
-214.900713	-3.668599	-14.732645	
0.50000	-0.671964	-12.836547	-2.937678
-214.916794	-2.573522	-9.954877	
0.75000	-0.671964	-12.832368	-2.937678
-214.933141	-1.482388	-5.229982	
1.00000	-0.671964	-12.828166	-2.937678
-214.949557	-0.767686	-0.727601	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.260069	76.097169	20.357286
35.398559	33.375434	117.768581	
0.25000	4.260069	76.103067	20.357286
35.385560	25.769829	89.354497	
0.50000	4.260069	76.109236	20.357286
35.372140	18.168782	60.955464	
0.75000	4.260069	76.115521	20.357286
35.358554	10.587511	32.614006	
1.00000	4.260069	76.121845	20.357286
35.344900	3.178713	5.376777	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.921445	-24.551259	-35.551973
-364.538307	-53.396361	-42.786331	
0.25000	-8.921445	-24.547190	-35.551973
-364.553647	-40.104767	-34.119618	
0.50000	-8.921445	-24.543058	-35.551973
-364.569702	-26.813513	-25.453457	
0.75000	-8.921445	-24.538882	-35.551973
-364.586023	-13.531050	-16.816074	
1.00000	-8.921445	-24.534685	-35.551973
-364.602413	-1.231955	-9.769340	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.353325	168.137146	29.417735
36.358846	47.546210	258.100504	
0.25000	6.353325	168.142454	29.417735
36.347147	36.562708	195.276112	
0.50000	6.353325	168.148007	29.417735
36.335068	25.597770	132.455700	
0.75000	6.353325	168.153663	29.417735
36.322842	14.667003	69.686212	
1.00000	6.353325	168.159355	29.417735
36.310552	4.413492	7.954630	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.156347	-36.761899	-19.943711
-453.292889	-30.066720	-57.813942	
0.25000	-5.156347	-36.758237	-19.943711
-453.306695	-22.613093	-44.168530	
0.50000	-5.156347	-36.754518	-19.943711
-453.321145	-15.161012	-30.565615	
0.75000	-5.156347	-36.750760	-19.943711
-453.335833	-7.727434	-16.948989	
1.00000	-5.156347	-36.746983	-19.943711
-453.350584	-1.531500	-5.468353	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.489742	369.471886	58.256211
195.865654	90.586571	564.159406	
0.25000	13.489742	375.410464	58.256211
184.447999	68.819822	433.106910	
0.50000	13.489742	381.628960	58.256211
172.588757	47.056982	297.844932	
0.75000	13.489742	387.970783	58.256211
165.709717	25.303782	158.019104	
1.00000	13.489742	394.354181	58.256211
165.709717	5.511264	15.734804	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
853

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.860719	-59.877088	-27.708582
-472.817170	-40.457628	-68.467168	
0.25000	-7.860719	-55.978759	-27.708582
-482.768627	-30.100690	-51.783283	
0.50000	-7.860719	-52.012603	-27.708582
-492.941236	-19.745090	-35.098774	
0.75000	-7.860719	-48.001083	-27.708582
-503.241603	-9.414941	-18.420717	
1.00000	-7.860719	-44.874147	-27.708582
-516.841959	-1.802831	-7.867942	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.809655	437.878810	14.569505
585.431388	19.566501	569.132760	
0.25000	4.809655	447.912798	14.569505
587.667719	14.120436	429.762502	
0.50000	4.809655	458.174749	14.569505
589.735887	8.675786	286.372378	
0.75000	4.809655	468.840307	14.569505
591.628045	3.233131	138.826748	
1.00000	4.809655	479.165851	14.569505
593.339080	3.820365	4.068275	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.024275	-34.423342	-63.082644
-80.909596	-90.567571	-38.564433	
0.25000	-19.024275	-30.873026	-63.082644
-80.564849	-66.980417	-28.097295	
0.50000	-19.024275	-30.709368	-63.082644
-80.051938	-43.395209	-18.064916	
0.75000	-19.024275	-30.681611	-63.082644
-79.363017	-19.812224	-8.394831	
1.00000	-19.024275	-30.681611	-63.082644
-78.492974	-2.358819	-17.821541	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.251336	661.742253	55.290857
690.778434	80.376515	868.254103	
0.25000	15.251336	673.919200	55.290857
691.771677	59.713493	656.942787	
0.50000	15.251336	686.374445	55.290857
692.765093	39.062167	440.652088	
0.75000	15.251336	699.095678	55.290857
693.774048	18.459340	219.487323	
1.00000	15.251336	712.023224	55.290857
694.517229	6.590727	13.570733	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.421974	-65.415519	-71.912009
-219.575513	-101.852259	-67.987023	
0.25000	-22.421974	-59.388825	-71.912009
-219.575513	-74.973699	-49.346913	
0.50000	-22.421974	-53.757857	-71.912009
-219.575513	-48.105060	-31.645140	
0.75000	-22.421974	-53.551794	-71.912009
-219.564953	-21.292756	-14.755592	
1.00000	-22.421974	-53.520314	-71.912009
-219.340818	-3.266637	-20.654606	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.157987	685.601519	48.528316
619.326889	72.052022	903.606641	
0.25000	13.157987	696.778090	48.528316
620.045208	53.965341	682.756999	
0.50000	13.157987	708.213262	48.528316
620.763651	35.922874	457.318426	
0.75000	13.157987	719.890902	48.528316
621.482146	17.946579	227.448259	
1.00000	13.157987	731.765058	48.528316
622.069995	8.135690	12.127738	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
854

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.423131	-79.395851	-68.525131
-340.479271	-97.328180	-88.166292	
0.25000	-21.423131	-73.812352	-68.525131
-340.479271	-71.763570	-64.524672	
0.50000	-21.423131	-68.264283	-68.525131
-340.479271	-46.238563	-41.651483	
0.75000	-21.423131	-67.841728	-68.525131
-340.479271	-20.766522	-19.553282	
1.00000	-21.423131	-67.803634	-68.525131
-340.348677	-3.606911	-19.785851	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.177222	604.879440	46.777265
530.745317	70.868141	798.862937	
0.25000	12.177222	614.195620	46.777265
531.344069	53.437436	603.402111	
0.50000	12.177222	623.727356	46.777265
531.942924	36.048859	404.135299	
0.75000	12.177222	633.461201	46.777265
532.541822	18.751188	201.239423	
1.00000	12.177222	643.358849	46.777265
533.031821	8.587937	11.538522	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.295735	-80.375453	-74.948433
-442.624261	-108.077536	-98.623120	
0.25000	-22.295735	-75.721353	-74.948433
-442.624261	-80.111560	-73.345946	
0.50000	-22.295735	-71.096785	-74.948433
-442.624261	-52.189075	-48.723373	
0.75000	-22.295735	-70.744566	-74.948433
-442.624261	-24.341052	-24.798604	
1.00000	-22.295735	-70.712813	-74.948433
-442.515405	-3.849588	-20.501437	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.227812	191.027076	44.655746
49.342998	67.312995	258.591787	
0.25000	11.227812	191.030679	44.655746
49.335079	50.633976	195.210068	
0.50000	11.227812	191.034405	44.655746
49.327253	33.974782	131.853310	
0.75000	11.227812	191.038236	44.655746
49.319536	17.433595	68.882602	
1.00000	11.227812	191.042131	44.655746
49.311972	2.909968	10.446781	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.809164	-24.822775	-7.497048
-183.916759	-9.859962	-32.315164	
0.25000	-2.809164	-24.820121	-7.497048
-183.924078	-7.074931	-23.515988	
0.50000	-2.809164	-24.817493	-7.497048
-183.931682	-4.309202	-14.995445	
0.75000	-2.809164	-24.814916	-7.497048
-183.939579	-1.549343	-6.944890	
1.00000	-2.809164	-24.812398	-7.497048
-183.947681	-0.809614	-2.415561	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.300652	266.069135	38.541596
55.916767	60.006910	358.444108	
0.25000	9.300652	266.072739	38.541596
55.908845	45.664388	269.502836	
0.50000	9.300652	266.076466	38.541596
55.901016	31.380951	180.607642	
0.75000	9.300652	266.080297	38.541596
55.893296	17.222856	92.120101	
1.00000	9.300652	266.084192	38.541596
55.885729	5.225394	9.116518	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 855

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.879067	-46.672734	-22.922927
-366.038871	-33.094485	-65.467807	
0.25000	-6.879067	-46.670080	-22.922927
-366.046194	-24.593641	-48.751280	
0.50000	-6.879067	-46.667450	-22.922927
-366.053801	-16.153252	-32.325586	
0.75000	-6.879067	-46.664873	-22.922927
-366.061702	-7.812426	-16.409673	
1.00000	-6.879067	-46.662354	-22.922927
-366.069807	-1.677421	-6.018997	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.527338	554.960001	52.751079
374.984721	79.813069	738.015543	
0.25000	13.527338	564.627089	52.751079
372.323448	60.152712	559.902056	
0.50000	13.527338	574.611322	52.751079
370.028068	40.546425	377.561115	
0.75000	13.527338	584.786234	52.751079
368.105483	21.178160	191.169098	
1.00000	13.527338	595.166470	52.751079
366.560190	7.732209	12.538479	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.056798	-91.057635	-51.475154
-373.265732	-72.996442	-95.895770	
0.25000	-16.056798	-85.078439	-51.475154
-386.098037	-53.813570	-70.505120	
0.50000	-16.056798	-79.158299	-51.475154
-399.598130	-34.688432	-45.554783	
0.75000	-16.056798	-73.310378	-51.475154
-413.658289	-15.665406	-21.438887	
1.00000	-16.056798	-67.605451	-51.475154
-428.204035	-3.084053	-15.332739	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.186855	492.009934	53.183259
331.049030	82.019005	657.046517	
0.25000	13.186855	500.063316	53.183259
328.831998	62.194002	498.531035	
0.50000	13.186855	508.380903	53.183259
326.919781	42.420918	336.495189	
0.75000	13.186855	516.857339	53.183259
325.318128	22.760351	171.108216	
1.00000	13.186855	525.504825	53.183259
324.030788	8.372052	12.645110	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.751294	-87.772201	-48.861379
-484.460876	-70.268760	-98.629447	
0.25000	-14.751294	-82.791098	-48.861379
-495.151112	-52.059592	-72.984400	
0.50000	-14.751294	-77.859194	-48.861379
-506.397663	-33.902001	-47.713846	
0.75000	-14.751294	-72.987454	-48.861379
-518.110791	-15.837275	-23.158991	
1.00000	-14.751294	-68.234838	-48.861379
-530.228447	-3.448015	-14.078506	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.680777	43.460284	20.324914
31.361949	33.326938	64.311175	
0.25000	4.680777	43.463885	20.324914
31.354017	25.736371	49.404851	
0.50000	4.680777	43.467612	20.324914
31.346176	18.148193	34.501972	
0.75000	4.680777	43.471445	20.324914
31.338450	10.565423	19.610247	
1.00000	4.680777	43.475341	20.324914
31.330873	3.025905	5.190816	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 856

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.862364	-18.377963	-3.863058
-272.287193	-6.894131	-26.446198	
0.25000	-0.862364	-18.375307	-3.863058
-272.294524	-5.458845	-19.936198	
0.50000	-0.862364	-18.372676	-3.863058
-272.302142	-4.026022	-13.429107	
0.75000	-0.862364	-18.370096	-3.863058
-272.310052	-2.602107	-6.928350	
1.00000	-0.862364	-18.367576	-3.863058
-272.318168	-1.342283	-0.992249	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.500235	98.334868	24.910594
45.275334	41.558897	137.414031	
0.25000	5.500235	98.338470	24.910594
45.267427	32.272600	103.912865	
0.50000	5.500235	98.342195	24.910594
45.259614	23.006254	70.453324	
0.75000	5.500235	98.346025	24.910594
45.251909	13.809489	37.084714	
1.00000	5.500235	98.349919	24.910594
45.244357	5.175433	6.148920	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.758436	-38.663964	-30.765805
-451.635208	-47.253397	-61.879705	
0.25000	-7.758436	-38.661213	-30.765805
-451.642515	-35.777937	-47.687957	
0.50000	-7.758436	-38.658587	-30.765805
-451.650106	-24.327621	-33.523968	
0.75000	-7.758436	-38.656012	-30.765805
-451.657990	-12.937484	-19.442416	
1.00000	-7.758436	-38.653497	-30.765805
-451.666078	-2.301989	-7.728212	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.388731	209.270953	36.873108
46.032014	60.111748	289.018554	
0.25000	8.388731	209.309861	36.873108
45.946591	46.391325	217.961494	
0.50000	8.388731	209.350095	36.873108
45.862175	32.729466	146.931883	
0.75000	8.388731	209.391453	36.873108
45.778929	19.211454	76.112846	
1.00000	8.388731	209.433516	36.873108
45.697333	6.892183	9.138690	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.104374	-53.817671	-22.254341
-536.357035	-33.893397	-76.881375	
0.25000	-6.104374	-53.789031	-22.254341
-536.435980	-25.639965	-57.786057	
0.50000	-6.104374	-53.760661	-22.254341
-536.518000	-17.447793	-38.699244	
0.75000	-6.104374	-53.732850	-22.254341
-536.603179	-9.367242	-19.912569	
1.00000	-6.104374	-53.705674	-22.254341
-536.690572	-2.604629	-5.529514	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.163497	407.156780	62.067920
251.336233	96.457620	549.493067	
0.25000	15.163497	412.946122	62.067920
240.456414	73.309961	417.760318	
0.50000	15.163497	418.937516	62.067920
229.691398	50.228133	283.294679	
0.75000	15.163497	425.042990	62.067920
219.077713	27.262969	146.478875	
1.00000	15.163497	431.263987	62.067920
208.660774	8.227654	14.752848	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 857

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.466185	-84.310362	-34.602974
-555.917137	-50.199792	-95.611223	
0.25000	-10.466185	-80.352487	-34.602974
-565.798324	-37.324576	-70.686102	
0.50000	-10.466185	-76.450644	-34.602974
-576.140429	-24.504187	-46.059465	
0.75000	-10.466185	-72.614164	-34.602974
-586.839881	-11.795469	-22.046721	
1.00000	-10.466185	-68.848027	-34.602974
-597.872809	-3.217664	-9.820166	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.489742	656.266646	58.256211
530.263330	90.586571	981.708569	
0.25000	13.489742	667.943264	58.256211
530.263330	68.819822	749.816214	
0.50000	13.489742	680.209255	58.256211
530.263330	47.056982	509.685987	
0.75000	13.489742	692.760200	58.256211
530.263330	25.303782	260.516683	
1.00000	13.489742	705.407448	58.256211
530.263330	5.115021	15.734843	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.406611	-62.881422	-61.313872
-472.817170	-89.296427	-74.882325	
0.25000	-17.406611	-56.670652	-61.313872
-482.768627	-66.373270	-56.389930	
0.50000	-17.406611	-52.012603	-61.313872
-492.941236	-43.451320	-37.897535	
0.75000	-17.406611	-49.720221	-61.313872
-503.241603	-20.544686	-20.856923	
1.00000	-17.406611	-49.720221	-61.313872
-516.841959	-2.042620	-17.726667	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.251336	685.601519	62.067920
690.778434	96.457620	903.606641	
0.25000	15.251336	696.778090	62.067920
691.771677	73.309961	682.756999	
0.50000	15.251336	708.213262	62.067920
692.765093	50.228133	457.318426	
0.75000	15.251336	719.890902	62.067920
693.747948	27.262969	227.448259	
1.00000	15.251336	731.765058	62.067920
694.517229	8.587937	14.752848	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.421974	-91.057635	-74.948433
-555.917137	-108.077536	-98.629447	
0.25000	-22.421974	-85.078439	-74.948433
-565.798324	-80.111560	-73.345946	
0.50000	-22.421974	-79.158299	-74.948433
-576.140429	-52.189075	-48.723373	
0.75000	-22.421974	-73.310378	-74.948433
-586.839881	-24.341052	-24.798604	
1.00000	-22.421974	-70.712813	-74.948433
-597.872809	-3.849588	-20.654606	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.251336	685.601519	62.067920
690.778434	96.457620	981.708569	
0.25000	15.251336	696.778090	62.067920
691.771677	73.309961	749.816214	
0.50000	15.251336	708.213262	62.067920
692.765093	50.228133	509.685987	
0.75000	15.251336	719.890902	62.067920
693.747948	27.262969	260.516683	
1.00000	15.251336	731.765058	62.067920
694.517229	8.587937	15.734843	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 858

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.421974	-91.057635	-74.948433
-555.917137	-108.077536	-98.629447	
0.25000	-22.421974	-85.078439	-74.948433
-565.798324	-80.111560	-73.345946	
0.50000	-22.421974	-79.158299	-74.948433
-576.140429	-52.189075	-48.723373	
0.75000	-22.421974	-73.310378	-74.948433
-586.839881	-24.341052	-24.798604	
1.00000	-22.421974	-70.712813	-74.948433
-597.872809	-3.849588	-20.654606	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.251336	685.601519	62.067920
690.778434	96.457620	981.708569	
0.25000	15.251336	696.778090	62.067920
691.771677	73.309961	749.816214	
0.50000	15.251336	708.213262	62.067920
692.765093	50.228133	509.685987	
0.75000	15.251336	719.890902	62.067920
693.747948	27.262969	260.516683	
1.00000	15.251336	731.765058	62.067920
694.517229	8.587937	15.734843	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.421974	-91.057635	-74.948433
-555.917137	-108.077536	-98.629447	
0.25000	-22.421974	-85.078439	-74.948433
-565.798324	-80.111560	-73.345946	
0.50000	-22.421974	-79.158299	-74.948433
-576.140429	-52.189075	-48.723373	
0.75000	-22.421974	-73.310378	-74.948433
-586.839881	-24.341052	-24.798604	
1.00000	-22.421974	-70.712813	-74.948433
-597.872809	-3.849588	-20.654606	

ELEM 54 ========== LENGTH = 4.462150

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.584709	21.190467	2.239980
65.850561	1.472660	5.004306	
0.25000	3.584709	21.358543	2.239980
66.750527	18.356010	125.778398	
0.50000	3.584709	21.858789	2.239980
67.623771	35.298414	244.799074	
0.75000	3.584709	22.323368	2.239980
68.472843	52.241162	362.242399	
1.00000	3.584709	22.896552	2.239980
71.893147	69.184293	478.449463	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.673154	-109.313103	-15.189179
-471.524302	-1.572283	-0.547875	
0.25000	-0.673154	-108.379994	-15.189179
-470.250976	-3.995810	-23.925978	
0.50000	-0.673154	-107.533045	-15.189179
-469.179537	-6.866464	-47.563303	
0.75000	-0.673154	-106.779278	-15.189179
-468.134302	-8.980909	-71.200428	
1.00000	-0.673154	-106.125250	-15.189179
-467.113342	-11.478180	-94.837653	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.698342	38.208046	20.544471
135.131480	3.482704	5.389415	
0.25000	3.698342	39.857888	20.544471
143.201770	20.278428	324.673272	
0.50000	3.698342	44.863753	20.544471
151.033792	38.446649	628.314017	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 859

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	3.698342	49.512844	20.544471
158.651313	56.619534	916.171659	
1.00000	3.698342	55.211265	20.544471
189.427605	74.792590	1191.670	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.902536	-298.429835	-16.292049
-798.749082	-2.218474	-5.124640	
0.25000	-4.902536	-289.095624	-16.292049
-787.334994	-23.352753	-43.015236	
0.50000	-4.902536	-280.620000	-16.292049
-777.731301	-46.253671	-85.636481	
0.75000	-4.902536	-273.076364	-16.292049
-768.354736	-69.164785	-128.257726	
1.00000	-4.902536	-266.530268	-16.292049
-759.192864	-92.078389	-170.878972	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.395118	51.584587	13.716829
98.287014	4.951637	4.963494	
0.25000	3.395118	59.458502	13.716829
98.287014	19.261520	653.440539	
0.50000	3.395118	88.750339	13.716829
98.287014	35.170642	1193.537	
0.75000	3.395118	115.962036	13.716829
98.287014	51.632246	1641.160	
1.00000	3.395118	147.297889	13.716829
98.287014	68.390359	2016.166	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.705318	-638.001520	-15.025743
-624.883511	-2.639565	-4.028970	
0.25000	-3.705318	-583.554097	-15.025743
-624.883511	-14.646183	-57.781309	
0.50000	-3.705318	-533.939764	-15.025743
-625.237197	-29.124223	-115.329690	
0.75000	-3.705318	-489.752891	-15.025743
-627.969752	-44.419159	-172.872963	
1.00000	-3.705318	-451.378238	-15.025743
-630.444309	-59.718148	-230.416235	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.130174	56.767450	12.705939
341.281553	5.575984	6.652039	
0.25000	5.130174	63.263135	12.705939
341.281553	27.889458	664.290309	
0.50000	5.130174	87.348268	12.705939
341.281553	53.287672	1234.640	
0.75000	5.130174	109.722920	12.705939
341.281553	79.345282	1728.954	
1.00000	5.130174	135.512219	12.705939
341.281553	105.413281	2163.558	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.374424	-637.769522	-23.370927
-566.030189	-3.361870	-4.105052	
0.25000	-3.374424	-592.999416	-23.370927
-566.030189	-12.656678	-63.267736	
0.50000	-3.374424	-552.203983	-23.370927
-566.030189	-26.048866	-126.597059	
0.75000	-3.374424	-515.871990	-23.370927
-566.030189	-40.174081	-189.922181	
1.00000	-3.374424	-484.317207	-23.370927
-566.030189	-54.311341	-253.247333	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.127603	19.833515	20.402663
72.234318	2.405312	0.234523	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 860

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.127603	24.693155	20.402663
86.911122	0.997589	324.041296	
0.50000	0.127603	40.617662	20.402663
101.172489	1.846769	591.596300	
0.75000	0.127603	55.408854	20.402663
115.073242	2.706866	808.907392	
1.00000	0.127603	73.097819	20.402663
172.425131	3.568809	986.805284	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.838758	-323.343699	-0.774259
-310.005583	-0.591515	-5.105520	
0.25000	-4.838758	-293.687911	-0.774259
-289.303588	-21.016839	-22.160675	
0.50000	-4.838758	-266.721177	-0.774259
-271.880053	-43.774405	-44.289009	
0.75000	-4.838758	-242.713703	-0.774259
-254.800840	-66.534166	-66.414554	
1.00000	-4.838758	-221.873394	-0.774259
-238.043727	-89.293998	-88.540099	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.928645	38.255339	13.882974
144.405505	4.266665	2.311109	
0.25000	1.928645	46.887237	13.882974
144.405505	10.953410	645.114377	
0.50000	1.928645	78.864817	13.882974
144.405505	20.741402	1170.681	
0.75000	1.928645	108.571379	13.882974
144.405505	31.330013	1595.282	
1.00000	1.928645	142.813522	13.882974
144.405505	41.926046	1940.604	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.654933	-639.059344	-9.502407
-178.994973	-1.554817	-4.280614	
0.25000	-3.654933	-579.618230	-9.502407
-178.994973	-12.660844	-42.504409	
0.50000	-3.654933	-525.454491	-9.502407
-178.994973	-27.157848	-85.185317	
0.75000	-3.654933	-477.271702	-9.502407
-178.994973	-42.590958	-127.860646	
1.00000	-3.654933	-435.321641	-9.502407
-178.994973	-58.028457	-170.536017	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.277142	51.376585	17.943234
173.402978	5.276256	4.494401	
0.25000	3.277142	59.253093	17.943234
173.402978	18.773554	690.982847	
0.50000	3.277142	88.351286	17.943234
173.402978	35.567366	1271.294	
0.75000	3.277142	115.382859	17.943234
173.402978	52.843302	1759.732	
1.00000	3.277142	146.573115	17.943234
173.402978	70.125913	2176.027	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.447063	-673.017981	-15.496673
-515.284415	-2.510971	-4.992628	
0.25000	-4.447063	-618.928298	-15.496673
-515.284415	-16.883379	-57.364580	

0.50000 -4.447063 -569.641488 -15.496673
-515.284415 -36.035339 -114.681542
0.75000 -4.447063 -525.748112 -15.496673
-515.284415 -56.001483 -171.993427
1.00000 -4.447063 -487.623749 -15.496673
-515.284421 -75.975609 -229.305351

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.403601	56.615952	17.076173
431.646163	5.899904	4.306252	
0.25000	3.403601	63.234127	17.076173
431.646163	19.068691	665.902544	
0.50000	3.403601	87.751705	17.076173
431.646163	35.808335	1238.996	
0.75000	3.403601	110.528068	17.076173
431.646163	53.165802	1734.679	
1.00000	3.403601	136.781912	17.076173
431.646163	70.528760	2169.577	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.166884	-642.497483	-15.567955
-454.994189	-3.455092	-5.282173	
0.25000	-4.166884	-596.923298	-15.567955
-454.994189	-15.138319	-62.902754	
0.50000	-4.166884	-555.395338	-15.567955
-454.994189	-33.422045	-126.063731	
0.75000	-4.166884	-518.411156	-15.567955
-454.994189	-52.435886	-189.220432	
1.00000	-4.166884	-486.289446	-15.567955
-454.994189	-71.452325	-252.377157	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.390654	21.105113	4.745758
475.045232	2.364720	0.596287	
0.25000	0.390654	21.229122	4.745758
473.386624	1.745802	124.789168	
0.50000	0.390654	21.835184	4.745758
471.992148	2.659993	249.086566	
0.75000	0.390654	22.398372	4.745758
470.643531	4.625742	371.467878	
1.00000	0.390654	23.002825	4.745758
469.339152	6.648482	492.358752	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.021310	-114.615367	-1.865796
-55.055641	-2.224783	-2.243955	
0.25000	-1.021310	-113.492657	-1.865796
-56.220692	-3.248251	-23.061456	
0.50000	-1.021310	-112.465665	-1.865796
-57.347863	-8.261409	-46.605101	
0.75000	-1.021310	-111.550428	-1.865796
-58.438325	-13.554850	-70.148647	
1.00000	-1.021310	-110.758520	-1.865796
-62.612166	-18.848425	-93.692193	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.526750	37.470510	5.927369
772.602119	4.054303	3.992458	
0.25000	3.526750	38.852197	5.927369
757.160201	18.653030	340.705489	
0.50000	3.526750	45.327431	5.927369
744.176730	36.551184	656.730708	
0.75000	3.526750	51.344349	5.927369
731.631571	55.615938	952.287761	
1.00000	3.526750	57.866438	5.927369
719.503750	74.744253	1231.903	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.277916	-317.380234	-17.213225
-130.027754	-3.330538	-2.853383	
0.25000	-1.277916	-305.379546	-17.213225
-140.869790	-3.610546	-41.081002	
0.50000	-1.277916	-294.497089	-17.213225
-151.357122	-9.985466	-82.881619	
0.75000	-1.277916	-284.630639	-17.213225
-161.499220	-16.524657	-124.681285	
1.00000	-1.277916	-276.166769	-17.213225
-200.172078	-23.078644	-166.481001	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.868056	50.752860	7.972484
581.135432	5.599825	2.370617	
0.25000	1.868056	58.763781	7.972484
581.135432	9.578228	654.218943	
0.50000	1.868056	88.302628	7.972484
581.135432	18.220741	1198.566	
0.75000	1.868056	115.743495	7.972484
581.135432	28.063325	1649.651	
1.00000	1.868056	147.423161	7.972484
581.135432	38.342670	2027.498	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.272961	-643.079110	-9.112055
-117.190677	-3.458622	-3.791615	
0.25000	-2.272961	-588.169699	-9.112055
-117.190677	-4.544934	-55.938817	
0.50000	-2.272961	-538.136376	-9.112055
-117.190677	-12.575506	-112.560786	
0.75000	-2.272961	-493.578675	-9.112055
-117.190677	-21.415477	-169.177601	
1.00000	-2.272961	-454.876027	-9.112055
-117.190687	-30.266717	-225.794451	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.167828	56.509073	21.509744
526.932448	6.135216	3.027891	
0.25000	2.167828	63.043412	21.509744
526.932448	12.366210	658.623460	
0.50000	2.167828	87.238169	21.509744
526.932448	22.422661	1227.911	
0.75000	2.167828	109.714623	21.509744
526.932448	33.927560	1720.806	
1.00000	2.167828	135.623632	21.509744
526.932448	45.488537	2153.717	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.192536	-637.380357	-10.422560
-376.026228	-3.628913	-6.760049	
0.25000	-5.192536	-592.406110	-10.422560
-376.026228	-19.355461	-62.613043	
0.50000	-5.192536	-551.424916	-10.422560
-376.026228	-42.593899	-125.655051	
0.75000	-5.192536	-514.927786	-10.422560
-376.026228	-66.541376	-188.692838	
1.00000	-5.192536	-483.228814	-10.422560
-376.026228	-90.497914	-251.730654	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.736934	29.827991	3.481244
87.864508	2.613796	5.733914	
0.25000	4.736934	30.167979	3.481244
88.828106	24.504775	128.396247	
0.50000	4.736934	30.645878	3.481244
89.836097	46.536351	250.751960	
0.75000	4.736934	31.129835	3.481244
90.888836	68.578689	372.143276	
1.00000	4.736934	31.607011	3.481244
91.986739	90.622369	492.683181	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.982691	-124.003547	-19.763335
-556.249850	-2.057553	-0.981696	
0.25000	-0.982691	-123.243898	-19.763335
-555.042731	-5.781544	-32.273173	
0.50000	-0.982691	-122.537796	-19.763335
-553.922250	-9.645984	-63.035079	
0.75000	-0.982691	-121.898628	-19.763335
-552.886506	-13.523951	-97.796365	
1.00000	-0.982691	-121.335068	-19.763335
-551.931540	-17.403422	-130.569665	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.840620	53.530710	20.222961
170.585194	5.379253	6.049827	
0.25000	4.840620	56.622899	20.222961
177.427567	26.308182	300.795798	
0.50000	4.840620	60.298196	20.222961
184.588851	49.000434	590.348322	
0.75000	4.840620	64.324146	20.222961
192.070787	71.749379	871.871421	
1.00000	4.840620	68.293911	20.222961
199.874870	94.515847	1146.300	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.741186	-309.063603	-20.419635
-908.430598	-2.950539	-4.591382	
0.25000	-4.741186	-302.738549	-20.419635
-899.822187	-23.586265	-56.336177	
0.50000	-4.741186	-296.659014	-20.419635
-891.845100	-46.052068	-112.477232	
0.75000	-4.741186	-291.537175	-20.419635
-884.468571	-68.584090	-168.550924	
1.00000	-4.741186	-286.844376	-20.419635
-877.667065	-91.126099	-224.920948	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.653355	72.948106	16.003464
159.551179	7.377250	5.765250	
0.25000	4.653355	90.211840	16.003464
153.608025	25.857814	548.417192	
0.50000	4.653355	117.039295	16.003464
148.260679	47.663617	1036.064	
0.75000	4.653355	144.242446	16.003464
143.519012	69.995940	1469.249	
1.00000	4.653355	171.060475	16.003464
139.389378	92.359320	1854.448	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.037101	-605.898937	-20.082185
-737.265666	-3.604778	-4.166972	
0.25000	-4.037101	-562.873858	-20.082185
-742.531666	-17.378264	-75.965746	
0.50000	-4.037101	-522.966090	-20.082185
-747.989471	-34.494408	-152.210894	
0.75000	-4.037101	-486.761429	-20.082185
-753.588526	-52.251932	-228.416488	
1.00000	-4.037101	-454.873410	-20.082185
-759.277684	-70.059576	-305.209697	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.636065	79.365819	15.050499
409.154246	8.653954	6.492531	
0.25000	5.636065	93.587648	15.050499
404.918055	30.537928	567.749398	
0.50000	5.636065	115.664826	15.050499
401.121218	57.238758	1084.420	
0.75000	5.636065	138.049795	15.050499
397.776477	84.996050	1556.746	
1.00000	5.636065	160.120359	15.050499
396.112310	112.847797	1989.589	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.719067	-615.762384	-25.008258
-666.410402	-4.993310	-4.316804	
0.25000	-3.719067	-580.358247	-25.008258
-670.218073	-15.234812	-82.288436	
0.50000	-3.719067	-547.519362	-25.008258
-674.159939	-30.693824	-165.218221	
0.75000	-3.719067	-517.727675	-25.008258
-678.195160	-47.323941	-248.115294	
1.00000	-3.719067	-491.486805	-25.008258
-682.282028	-64.062134	-331.495812	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.194258	27.429711	18.473846
84.353751	3.074920	0.285628	
0.25000	0.194258	37.709163	18.473846
101.397702	1.432952	256.925453	
0.50000	0.194258	52.698217	18.473846
119.315008	2.457943	484.355059	
0.75000	0.194258	67.892640	18.473846
137.970950	3.570691	681.413787	
1.00000	0.194258	82.876118	18.473846
157.389166	4.701752	851.763037	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.191695	-294.323556	-1.020910
-336.984618	-0.809291	-4.266269	
0.25000	-4.191695	-270.396402	-1.020910
-315.418829	-18.795218	-29.323620	
0.50000	-4.191695	-248.179941	-1.020910
-295.418717	-39.295690	-58.131267	
0.75000	-4.191695	-228.047823	-1.020910
-276.888897	-59.884443	-86.906429	
1.00000	-4.191695	-210.317462	-1.020910
-259.761987	-80.481258	-116.035462	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.657298	53.496654	13.619317
163.773760	5.916930	1.747156	
0.25000	1.657298	72.915584	13.619317
163.773760	9.577167	513.694388	
0.50000	1.657298	102.911920	13.619317
163.773760	17.555213	964.112003	
0.75000	1.657298	133.326094	13.619317
163.773760	26.521804	1353.543	
1.00000	1.657298	163.312383	13.619317
163.773760	35.558910	1689.370	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.410455	-584.574859	-8.169046
-203.923317	-2.243947	-3.693789	
0.25000	-3.410455	-536.486505	-8.169046
-203.923317	-11.824320	-55.350523	
0.50000	-3.410455	-491.881137	-8.169046
-203.923317	-25.962654	-111.276910	
0.75000	-3.410455	-451.416039	-8.169046
-203.923317	-40.992771	-167.137022	
1.00000	-3.410455	-415.769851	-8.169046
-203.923317	-56.112008	-223.702764	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.362150	71.876388	18.458479
205.699235	7.669966	4.070065	
0.25000	3.362150	89.635468	18.458479
205.796279	19.516548	575.296056	
0.50000	3.362150	117.027827	18.458479
205.806883	35.637684	1091.027	
0.75000	3.362150	144.801656	18.458479
205.806883	52.602768	1551.066	
1.00000	3.362150	172.184557	18.458479
205.806883	69.640931	1962.153	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.501865	-637.507339	-15.304792
-599.226677	-3.453936	-4.673902	
0.25000	-4.501865	-593.597623	-15.304792
-598.761330	-18.190645	-74.671223	
0.50000	-4.501865	-552.868390	-15.304792
-598.209541	-37.815233	-149.797629	
0.75000	-4.501865	-515.922043	-15.304792
-597.647149	-58.287751	-224.863514	
1.00000	-4.501865	-483.369227	-15.304792
-597.084757	-78.860490	-300.573087	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.461340	79.120890	18.026241
495.123981	9.249347	4.066614	
0.25000	3.461340	94.116038	18.026241
495.123981	19.160589	570.416152	
0.50000	3.461340	117.278991	18.026241
495.123981	34.724171	1091.450	
0.75000	3.461340	140.764594	18.026241
495.123981	51.809416	1565.386	
1.00000	3.461340	163.919788	18.026241
495.123981	69.043505	1997.929	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.328747	-623.524935	-15.509261
-529.661667	-4.885211	-5.172277	
0.25000	-4.328747	-586.391458	-15.509261
-529.661667	-16.599104	-81.826189	
0.50000	-4.328747	-551.947518	-15.509261
-529.661667	-35.038609	-164.501557	
0.75000	-4.328747	-520.702648	-15.509261
-529.661667	-54.923435	-247.125364	
1.00000	-4.328747	-493.174937	-15.509261
-529.661667	-74.962916	-330.293500	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.590901	29.582084	7.176730
543.736860	4.641415	0.791372	
0.25000	0.590901	29.923354	7.176730
542.186531	4.328547	125.595801	
0.50000	0.590901	30.507839	7.176730
540.756487	3.068094	252.470813	
0.75000	0.590901	31.101041	7.176730
539.442203	5.772466	378.151689	
1.00000	0.590901	31.685883	7.176730
538.240957	8.680108	502.793533	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.437554	-129.160208	-2.629232
-67.518079	-3.281150	-3.889555	
0.25000	-1.437554	-128.217707	-2.629232
-68.774417	-5.124922	-31.153400	
0.50000	-1.437554	-127.341704	-2.629232
-70.091509	-11.606718	-62.862612	
0.75000	-1.437554	-126.548102	-2.629232
-71.457899	-19.428212	-94.570152	
1.00000	-1.437554	-125.851355	-2.629232
-72.875028	-27.433350	-126.290333	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.208667	52.254664	8.403245
847.338866	7.392309	3.197911	
0.25000	3.208667	55.398921	8.403245
835.573533	15.899241	307.297944	
0.50000	3.208667	60.688957	8.403245
824.726774	30.618997	604.673374	
0.75000	3.208667	66.057554	8.403245
814.763440	47.536667	891.873878	
1.00000	3.208667	71.350121	8.403245
805.664850	64.691965	1168.448	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.644483	-322.974531	-15.421654
-146.286958	-4.962297	-3.455825	
0.25000	-1.644483	-314.453083	-15.421654
-155.849035	-5.262377	-53.401650	
0.50000	-1.644483	-306.533195	-15.421654
-165.820204	-12.505387	-107.979069	
0.75000	-1.644483	-299.360408	-15.421654
-176.212775	-21.612521	-162.551046	
1.00000	-1.644483	-293.053041	-15.421654
-186.996427	-30.967018	-217.236089	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.095598	70.911535	11.381713
675.399176	9.093653	2.340280	
0.25000	2.095598	88.592623	11.381713
677.441847	9.614231	540.424081	
0.50000	2.095598	115.717407	11.381713
679.621036	18.488431	1025.153	
0.75000	2.095598	143.219579	11.381713
681.986632	29.374334	1454.755	
1.00000	2.095598	170.333945	11.381713
684.583615	40.484848	1835.877	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.792678	-604.306888	-10.007069
-165.482607	-5.037968	-4.502137	
0.25000	-2.792678	-560.841308	-10.007069
-162.325000	-7.257027	-72.821819	
0.50000	-2.792678	-520.524597	-10.007069
-159.260185	-17.019783	-146.926308	
0.75000	-2.792678	-483.356650	-10.007069
-156.250304	-30.267632	-220.967212	
1.00000	-2.792678	-451.722567	-10.007069
-153.366225	-42.844958	-295.645001	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.490337	78.967521	22.175907
617.224650	9.784976	3.024833	
0.25000	2.490337	93.483750	22.175907
618.322546	13.081077	561.201468	
0.50000	2.490337	115.780752	22.175907
619.507564	24.016870	1077.137	
0.75000	2.490337	138.388042	22.175907
620.821785	36.670726	1547.756	
1.00000	2.490337	160.676679	22.175907
622.301440	49.521960	1978.550	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.151462	-615.317924	-11.566233
-455.648468	-5.195572	-6.557679	
0.25000	-5.151462	-579.585668	-11.566233
-453.772005	-19.918637	-81.473987	
0.50000	-5.151462	-546.441935	-11.566233
-451.918636	-42.768864	-163.984009	
0.75000	-5.151462	-516.376678	-11.566233
-450.058558	-67.065326	-246.442469	
1.00000	-5.151462	-489.882146	-11.566233
-448.399924	-91.712513	-329.426179	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.130174	56.767450	21.509744
772.602119	6.135216	6.055239	
0.25000	5.130174	63.263135	21.509744
757.160201	27.889458	690.982847	
0.50000	5.130174	88.750339	21.509744
744.176730	53.282672	1271.294	
0.75000	5.130174	115.962036	21.509744
731.631571	79.345282	1759.732	
1.00000	5.130174	147.423161	21.509744
719.503750	105.413281	2176.027	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.192536	-673.017981	-23.370927
-798.749082	-3.628913	-6.760049	
0.25000	-5.192536	-618.928298	-23.370927
-787.334994	-23.352753	-63.267736	
0.50000	-5.192536	-569.641488	-23.370927
-777.731301	-46.253671	-126.597059	
0.75000	-5.192536	-525.748112	-23.370927
-768.354736	-69.164785	-189.922181	
1.00000	-5.192536	-487.623749	-23.370927
-759.192864	-92.076389	-253.247333	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.636065	79.365819	22.175907
847.338866	9.784976	6.492531	
0.25000	5.636065	94.116038	22.175907
835.573533	30.537928	575.296056	
0.50000	5.636065	117.278991	22.175907
824.726774	57.238758	1091.450	
0.75000	5.636065	144.801656	22.175907
814.763440	84.996050	1565.386	
1.00000	5.636065	172.184557	22.175907
805.664850	112.847797	1997.929	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.151462	-637.507339	-25.008258
-908.430598	-5.195572	-6.557679	
0.25000	-5.151462	-593.597623	-25.008258
-899.822187	-23.586265	-82.288436	
0.50000	-5.151462	-552.868390	-25.008258
-891.845100	-46.052068	-165.218221	
0.75000	-5.151462	-520.702648	-25.008258
-884.468571	-68.584090	-248.115294	
1.00000	-5.151462	-493.174937	-25.008258
-877.667065	-91.712513	-331.495812	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.636065	79.365819	22.175907
847.338866	9.784976	6.652039	
0.25000	5.636065	94.116038	22.175907
835.573533	30.537928	690.982847	
0.50000	5.636065	117.278991	22.175907
824.726774	57.238758	1271.294	
0.75000	5.636065	144.801656	22.175907
814.763440	84.996050	1759.732	
1.00000	5.636065	172.184557	22.175907
805.664850	112.847797	2176.027	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.192536	-673.017981	-25.008258
-908.430598	-5.195572	-6.760049	
0.25000	-5.192536	-618.928298	-25.008258
-899.822187	-23.586265	-82.288436	
0.50000	-5.192536	-569.641488	-25.008258
-891.845100	-46.253671	-165.218221	
0.75000	-5.192536	-525.748112	-25.008258
-884.468571	-69.164785	-248.115294	
1.00000	-5.192536	-493.174937	-25.008258
-877.667065	-92.078389	-331.495812	

COMB DESIGN ---------- MAX

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.636065   79.365819   22.175907
847.338866   9.784976    6.652039
 0.25000    5.636065   94.116038   22.175907
835.573533  30.537928  690.982847
 0.50000    5.636065  117.278991   22.175907
824.726774  57.238758   1271.294
 0.75000    5.636065  144.801656   22.175907
814.763440  84.996050   1759.732
 1.00000    5.636065  172.184557   22.175907
805.664850  112.847797   2176.027

 COMB  DESIGN  ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.192536  -673.017981   -25.008258
-908.430598   -5.195572   -6.760049
 0.25000   -5.192536  -618.928298   -25.008258
-899.822187  -23.586265  -82.288436
 0.50000   -5.192536  -569.641488   -25.008258
-891.845100  -46.253671  -165.218221
 0.75000   -5.192536  -525.748112   -25.008258
-884.468571  -69.164785  -248.115294
 1.00000   -5.192536  -493.174937   -25.008258
-877.667065  -92.078389  -331.495812
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                     Page
<          MOVING          LOAD          >
                          868

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 ELEM       55 ================== LENGTH
=    4.958110

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.516711   22.018624    7.650667
 83.738647  70.985559  480.568052
 0.25000   3.516711   22.720377    7.650667
 84.916900  62.204530  599.404712
 0.50000   3.516711   23.439631    7.650667
 86.063981  53.683898  719.854390
 0.75000   3.516711   24.163621    7.650667
 87.181980  45.556987  839.983723
 1.00000   3.516711   24.940409    7.650667
 89.025939  37.983808  959.390312

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -0.823345  -103.613091   -1.445652
-531.269719  -13.342769  -95.185868
 0.25000   -0.823345  -102.860891   -1.445652
-529.613914  -11.550859  -121.406442
 0.50000   -0.823345  -102.159202   -1.445652
-528.401475   -9.759049  -147.630505
 0.75000   -0.823345  -101.522776   -1.445652
-527.220151   -7.967412  -173.858571
 1.00000   -0.823345  -100.964289   -1.445652
-526.063065   -6.175769  -200.091694

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.690364   53.511362    7.976117
 164.853609  77.423026   1194.781
 0.25000   3.690364   60.524431    7.976117
 175.423723  68.234222   1400.474
 0.50000   3.690364   67.712651    7.976117
 185.718334  59.258417   1617.234
 0.75000   3.690364   74.948372    7.976117
 195.756370  50.619425   1840.751
 1.00000   3.690364   82.715317    7.976117
 212.331118  42.483668   2066.386

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.953298  -243.400049   -8.301453
-900.564594  -93.185235  -171.366630
 0.25000   -4.953298  -235.883510   -8.301453
-885.676520  -92.995493  -218.123599
 0.50000   -4.953298  -228.869276   -8.301453
-874.771755  -72.607916  -266.089787
 0.75000   -4.953298  -222.507279   -8.301453
-864.144737  -62.324177  -313.460065
 1.00000   -4.953298  -216.924637   -8.301453
-853.733948  -52.040294  -360.838095

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.657918   107.156255    7.247183
 120.634810  70.613480   2018.552
 0.25000   3.657918   147.693407    7.247183
 120.634810  64.389257   2379.688
 0.50000   3.657918   189.259423    7.247183
 120.634810  59.853077   2685.121
 0.75000   3.657918   231.108096    7.247183
 120.634810  56.298423   2940.291
 1.00000   3.657918   276.223022    7.247183
 120.634810  53.391367   3156.490

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.771332  -496.605208   -8.472478
-696.241528  -58.505526  -230.806292
 0.25000   -3.771332  -453.190453   -8.472478
-698.635036  -51.036958  -294.970964
 0.50000   -3.771332  -412.547251   -8.472478
-700.568548  -44.462266  -359.146167
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                     Page
<          MOVING          LOAD          >
                          869

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000   -3.771332  -375.675293   -8.472478
-702.347772  -38.030044  -423.324430
 1.00000   -3.771332  -343.335420   -8.472478
-705.340054  -32.207375  -487.509912

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.289781   107.316120    9.675939
 389.967735  106.945781   2164.548
 0.25000   5.289781   140.657161    9.675939
 389.967735  96.689951   2525.624
 0.50000   5.289781   174.840659    9.675939
 389.967735  88.640487   2857.948
 0.75000   5.289781   209.257002    9.675939
 389.967735  81.268113   3160.619
 1.00000   5.289781   246.355759    9.675939
 389.967735  74.395444   3436.989

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.436693  -492.005566   -7.383183
-635.197297  -52.180683  -253.383898
 0.25000   -3.436693  -456.301763   -7.383183
-635.197297  -45.397660  -324.126924
 0.50000   -3.436693  -422.877824   -7.383183
-635.197297  -39.568861  -394.879061
 0.75000   -3.436693  -392.555669   -7.383183
-635.884947  -33.931986  -465.633741
 1.00000   -3.436693  -365.958691   -7.383183
-636.669975  -28.799628  -536.396123

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    0.310913   52.621228    0.456121
 82.212821   3.751801   987.607056
 0.25000    0.310913   74.622414    0.456121
 101.492853  3.189599   1128.430
 0.50000    0.310913   97.581062    0.456121
 120.322243  2.631013   1247.026
 0.75000    0.310913   120.492013   0.456121
 138.742770  2.075070   1343.524
 1.00000    0.310913   145.126891   0.456121
 169.404527  2.021163   1422.226

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.724573  -240.930705   -7.885097
-353.299809  -67.879720  -88.625905
 0.25000   -4.724573  -217.143673   -7.885097
-325.700202  -78.249474  -113.328879
 0.50000   -4.724573  -194.917572   -7.885097
-305.435469  -68.619564  -138.038089
 0.75000   -4.724573  -174.756567   -7.885097
-285.666366  -58.990644  -162.748167
 1.00000   -4.724573  -157.068071   -7.885097
-266.289407  -49.361420  -187.456267

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    2.247603   105.661901    3.239443
 165.958624  41.481275   1940.531
 0.25000    2.247603   149.926996    3.239443
 165.958624  38.777193   2215.099
 0.50000    2.247603   195.314201    3.239443
 165.958624  39.194176   2442.955
 0.75000    2.247603   241.010707    3.239443
 165.958624  40.142486   2625.194
 1.00000    2.247603   290.267597    3.239443
 165.958624  41.327003   2771.770

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.586679  -472.752516   -8.088477
-196.031196  -54.139753  -170.497997
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                     Page
<          MOVING          LOAD          >
                          870

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000   -3.586679  -425.346753   -8.088477
-196.031196  -47.200303  -218.326529
 0.50000   -3.586679  -380.968284   -8.088477
-196.031196  -41.593532  -266.162050
 0.75000   -3.586679  -340.708340   -8.088477
-196.031196  -36.248859  -313.998030
 1.00000   -3.586679  -305.393803   -8.088477
-196.031196  -31.542424  -361.834013

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.539284   111.607104    5.861145
 205.381810  71.411672   2177.478
 0.25000    3.539284   151.882220    5.861145
 205.381810  64.771421   2521.372
 0.50000    3.539284   193.188672    5.861145
 205.381810  61.925836   2826.117
 0.75000    3.539284   234.777014    5.861145
 205.381810  59.584510   3088.331
 1.00000    3.539284   279.601825    5.861145
 205.381810  57.467818   3316.603

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.350560  -508.597451   -9.059794
-572.551902  -71.935340  -229.517081
 0.25000   -4.350560  -465.454012   -9.059794
-572.551902  -63.372866  -293.541225
 0.50000   -4.350560  -425.066260   -9.059794
-572.500173  -56.205947  -357.576533
 0.75000   -4.350560  -388.427095   -9.059794
-572.500173  -49.290187  -421.612166
 1.00000   -4.350560  -356.286686   -9.059794
-572.500191  -42.932989  -485.654695

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.604897   106.379097    6.003379
 483.932246  71.893302   2169.490
 0.25000    3.604897   140.317654    6.003379
 483.932246  65.622463   2536.257
 0.50000    3.604897   175.116545    6.003379
 483.932246  61.773347   2873.236
 0.75000    3.604897   210.152581    6.003379
 483.932246  58.360787   3174.181
 1.00000    3.604897   247.918404    6.003379
 483.932246  55.173460   3445.241

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.081534  -493.595461   -8.230356
-510.816502  -66.564940  -252.324142
 0.25000   -4.081534  -457.248918   -8.230356
-510.816502  -58.743578  -322.914737
 0.50000   -4.081534  -423.223436   -8.230356
-510.816502  -51.934331  -393.518238
 0.75000   -4.081534  -392.355675   -8.230356
-510.816502  -45.310773  -464.122011
 1.00000   -4.081534  -365.279613   -8.230356
-510.816502  -39.180345  -534.734012

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    0.523798   22.325730    0.650424
 517.308252   5.136242  490.089704
 0.25000    0.523798   23.150414    0.650424
 515.261011   4.670020  613.172796
 0.50000    0.523798   23.999598    0.650424
 513.769638   4.203801  737.309747
 0.75000    0.523798   24.854765    0.650424
 512.321574   3.741603  862.147159
 1.00000    0.523798   25.780873    0.650424
 510.905339   3.284302  986.440785
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                     Page
<          MOVING          LOAD          >
                          871

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -1.012893  -108.353329   -1.441518
-71.681163  -16.274713  -93.303847
 0.25000   -1.012893  -107.467523   -1.441518
-73.195993  -16.505823  -119.603701
 0.50000   -1.012893  -106.635326   -1.441518
-74.660801  -16.976639  -145.903561
 0.75000   -1.012893  -105.880191   -1.441518
-76.077777  -17.451621  -172.203479
 1.00000   -1.012893  -105.220975   -1.441518
-78.369948  -17.941805  -198.506233

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.578451   57.420006    5.739430
 855.130905  72.916820   1228.837
 0.25000    3.578451   66.251514    5.739430
 836.143301  66.380244   1437.289
 0.50000    3.578451   75.340092    5.739430
 822.317747  59.843752   1653.513
 0.75000    3.578451   84.492426    5.739430
 808.895233  53.314665   1873.543
 1.00000    3.578451   94.397740    5.739430
 795.771045  46.794130   2094.841

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -1.344236  -254.925384   -2.010445
-161.069704  -19.599003  -165.933956
 0.25000   -1.344236  -245.443182   -2.010445
-175.159830  -17.785572  -212.779830
 0.50000   -1.344236  -236.539150   -2.010445
-189.777990  -16.974196  -259.626296
 0.75000   -1.344236  -228.459878   -2.010445
-201.944247  -17.141276  -306.472780
 1.00000   -1.344236  -221.402274   -2.010445
-223.212086  -17.705483  -353.322867

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    2.274298   108.103374    3.238553
 639.334933  36.210496   2024.898
 0.25000    2.274298   149.007860    3.238553
 639.334933  32.792693   2384.101
 0.50000    2.274298   190.946859    3.238553
 639.334933  33.589679   2688.286
 0.75000    2.274298   233.166722    3.238553
 639.334933  34.926875   2942.230
 1.00000    2.274298   278.672599    3.238553
 639.334933  36.450123   3157.883

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -2.242696  -499.460019   -5.491453
-138.490641  -24.604716  -225.323945
 0.25000   -2.242696  -455.658883   -5.491453
-138.298485  -20.712258  -288.749888
 0.50000   -2.242696  -414.655847   -5.491453
-137.960207  -19.114038  -352.180299
 0.75000   -2.242696  -377.458794   -5.491453
-137.515362  -18.626427  -415.610740
 1.00000   -2.242696  -344.827692   -5.491453
-137.032782  -18.933020  -479.044493

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    2.499777   106.900966    3.873465
 584.893164  44.882698   2152.587
 0.25000    2.499777   140.392026    3.873465
 584.893164  41.364246   2516.520
 0.50000    2.499777   174.733644    3.873465
 584.893164  40.424086   2850.463
 0.75000    2.499777   209.309350    3.873465
 584.893164  39.897700   3153.529
 1.00000    2.499777   246.578456    3.873465
 584.893164  39.558889   3429.878
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                     Page
<          MOVING          LOAD          >
                          872

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.086383  -493.089455   -9.796795
-424.219571  -84.897669  -251.507044
 0.25000   -5.086383  -457.220535   -9.796795
-424.219571  -75.331936  -321.976961
 0.50000   -5.086383  -423.642263   -9.796795
-424.219571  -67.410610  -392.459479
 0.75000   -5.086383  -393.180272   -9.796795
-424.219571  -60.397227  -462.940320
 1.00000   -5.086383  -366.459852   -9.796795
-424.219572  -54.068471  -533.426778

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    4.728076   31.051489    9.406035
 108.697195  93.783231   495.140044
 0.25000    4.728076   31.487598    9.406035
 109.684273  83.465170   625.241692
 0.50000    4.728076   31.958965    9.406035
 110.729817  71.303206   755.116865
 0.75000    4.728076   32.450406    9.406035
 111.831341  60.354330   884.657918
 1.00000    4.728076   32.944732    9.406035
 112.988277  49.575123   1013.390

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -1.136340  -119.860793   -2.051018
-620.602129  -19.749815  -131.036675
 0.25000   -1.136340  -119.270049   -2.051018
-619.236323  -17.241168  -164.305834
 0.50000   -1.136340  -118.705333   -2.051018
-617.974557  -14.746481  -197.579404
 0.75000   -1.136340  -118.185102   -2.051018
-616.812849  -12.267131  -230.871248
 1.00000   -1.136340  -117.720950   -2.051018
-615.741875   -9.810516  -264.689680

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    4.877040   77.536147    9.924652
 199.367329  98.902031   1149.857
 0.25000    4.877700   81.162816    9.924652
 206.393750  86.997273   1369.826
 0.50000    4.877700   85.082740    9.924652
 213.829457  75.237202   1598.321
 0.75000    4.877700   89.169425    9.924652
 221.669367  63.681461   1832.540
 1.00000    4.877700   93.279966    9.924652
 229.909566  52.333526   2060.460

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.781457  -250.348628   -8.791551
-994.256987  -92.833449  -225.632234
 0.25000   -4.781457  -245.442700   -8.791551
-984.532753  -82.014108  -287.749176
 0.50000   -4.781457  -240.746155   -8.791551
-975.541596  -71.221346  -350.291147
 0.75000   -4.781457  -236.418658   -8.791551
-967.233393  -60.453284  -412.836862
 1.00000   -4.781457  -232.563023   -8.791551
-959.592644  -49.757671  -475.576111

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    4.754616   141.785022    9.516387
 183.113355  96.051625   1857.317
 0.25000    4.754616   166.198231    9.516387
 177.896672  85.665193   2219.906
 0.50000    4.754616   192.627411    9.516387
 173.258065  76.968908   2545.800
 0.75000    4.754616   220.173182    9.516387
 169.145317  69.325933   2832.376
 1.00000    4.754616   247.863451    9.516387
 165.510159  62.143663   3075.357
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                     Page
<          MOVING          LOAD          >
                          873

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.160150  -461.785980   -9.058200
-807.978589  -69.356816  -305.764460
 0.25000   -4.160150  -428.771181   -9.058200
-812.798710  -60.545204  -391.459526
 0.50000   -4.160150  -397.212366   -9.058200
-817.765935  -52.452587  -477.074619
 0.75000   -4.160150  -368.125175   -9.058200
-822.900853  -44.738589  -562.632019
 1.00000   -4.160150  -342.191945   -9.058200
-828.216847  -37.319419  -648.181614

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.711495   143.561489   10.575754
 449.357813  114.997890   1990.766
 0.25000    5.711495   163.653567   10.575754
 445.788107  103.264836   2363.271
 0.50000    5.711495   185.403566   10.575754
 442.639722   93.040835   2713.049
 0.75000    5.711495   208.072468   10.575754
 439.867802   83.559180   3036.165
 1.00000    5.711495   230.860371   10.575754
 438.337626   74.477910   3323.801

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.838882  -464.586173   -7.945597
-732.478189  -61.494740  -331.710007
 0.25000   -3.838882  -437.415732   -7.945597
-735.911112  -53.701029  -425.100465
 0.50000   -3.838882  -411.455285   -7.945597
-739.437180  -46.656613  -518.494615
 0.75000   -3.838882  -387.505546   -7.945597
-743.067807  -39.979689  -611.772586
 1.00000   -3.838882  -366.161992   -7.945597
-746.821830  -33.587224  -705.120538

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    0.328582   69.950262    0.667664
 86.356660   4.962602   852.712599
 0.25000    0.328582   83.628032    0.667664
 103.939633  4.264919   991.871472
 0.50000    0.328582   98.411844    0.667664
 122.579019  3.541289   1114.647
 0.75000    0.328582   113.824140   0.667664
 142.269404  2.833638   1218.707
 1.00000    0.328582   129.325320   0.667664
 162.952305  2.546034   1298.121

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.105057  -210.414875   -7.575569
-358.059937  -78.778056  -116.249720
 0.25000   -4.105057  -191.918210   -7.575569
-333.466671  -69.473842  -147.762716
 0.50000   -4.105057  -174.225061   -7.575569
-310.616435  -60.178998  -179.390709
 0.75000   -4.105057  -157.914611   -7.575569
-289.540527  -50.906205  -211.600813
 1.00000   -4.105057  -143.384144   -7.575569
-270.131068  -41.845998  -243.614671

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    1.878334   138.962030    2.944401
 176.976637  35.010860   1689.286
 0.25000    1.878334   166.271043    2.944401
 176.976637  33.334079   1962.668
 0.50000    1.878334   195.826248    2.944401
 176.976637  33.328252   2231.035
 0.75000    1.878334   226.629251    2.944401
 176.976637  34.013500   2403.560
 1.00000    1.878334   257.596181    2.944401
 176.976637  34.940795   2555.864
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                     Page
<          MOVING          LOAD          >
                          874

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.416785  -414.741861   -7.659442
-207.769230  -51.703675  -223.667398
 0.25000   -3.416785  -377.816416   -7.659442
-207.769230  -44.547275  -286.624647
 0.50000   -3.416785  -342.535849   -7.659442
-207.769230  -38.757531  -349.592233
 0.75000   -3.416785  -309.987674   -7.659442
-207.769230  -33.572608  -412.429952
 1.00000   -3.416785  -280.990856   -7.659442
-207.769230  -28.698968  -475.263081

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.571560   147.511515    6.328261
 232.948718  71.676117   1963.853
 0.25000    3.571560   172.451405    6.328261
 232.948718  65.240256   2315.420
 0.50000    3.571560   199.442988    6.328261
 232.948718  60.916923   2634.047
 0.75000    3.571560   227.572957    6.328261
 232.948718  57.280986   2917.150
 1.00000    3.571560   255.852712    6.328261
 232.948718  53.904756   3155.364

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.512435  -466.854810   -9.486931
-640.647081  -75.732832  -300.891025
 0.25000   -4.512435  -433.132493   -9.486931
-640.022180  -65.980677  -385.475162
 0.50000   -4.512435  -400.912491   -9.486931
-639.397279  -57.604239  -470.048200
 0.75000   -4.512435  -371.177232   -9.486931
-638.772378  -49.887505  -554.494039
 1.00000   -4.512435  -344.704680   -9.486931
-638.147497  -42.477911  -638.945168

 COMB DL-G2-4 ------------------- MAX
```

```
 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    3.656385  141.091051    6.295570
542.289235   69.681191    1997.773
 0.25000    3.656385  162.178872    6.295570
542.289235   63.556782    2378.058
 0.50000    3.656385  185.001186    6.295570
542.289235   58.793288    2729.250
 0.75000    3.656385  208.787040    6.295570
542.289235   54.674474    3049.400
 1.00000    3.656385  232.699479    6.295570
542.289235   50.840973    3331.846

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -4.369397 -466.932180   -8.610642
-576.080974  -69.914202  -330.244323
 0.25000   -4.369397 -438.418620   -8.610642
-576.080974  -61.142114  -423.371715
 0.50000   -4.369397 -411.175224   -8.610642
-576.080974  -53.469541  -516.577759
 0.75000   -4.369397 -386.041760   -8.610642
-576.080974  -46.381825  -609.630368
 1.00000   -4.369397 -363.650828   -8.610642
-576.080974  -39.588906  -702.679002

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    0.744571   31.133195    0.911700
589.499847   5.946804   500.191942
 0.25000    0.744571   31.661621    0.911700
587.813196   5.315810   633.155552
 0.50000    0.744571   32.236418    0.911700
586.259839   4.757101   765.716216
 0.75000    0.744571   32.835377    0.911700
584.833371   4.361975   898.160651
 1.00000    0.744571   33.437403    0.911700
583.528782   4.060683   1029.839
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING              LOAD                >
                                        875

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -1.527774 -123.599021   -1.639008
-87.574763  -22.879419  -125.790550
 0.25000   -1.527774 -122.883098   -1.639008
-88.839364  -21.909393  -159.134109
 0.50000   -1.527774 -122.197866   -1.639008
-90.172606  -21.217354  -192.484186
 0.75000   -1.527774 -121.566497   -1.639008
-91.573063  -20.692982  -226.189360
 1.00000   -1.527774 -121.006662   -1.639008
-93.041777  -20.265027  -260.826643

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    3.311835   79.800098    4.998972
916.591435   60.989143   1164.861
 0.25000    3.311835   84.588479    4.998972
903.840681   55.766857   1386.346
 0.50000    3.311835   89.792749    4.998972
892.106781   50.651079   1614.347
 0.75000    3.311835   95.215840    4.998972
881.332019   45.725984   1844.637
 1.00000    3.311835  100.666880    4.998972
871.470446   40.969332   2067.809

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -1.794469 -257.388846   -2.127647
-172.038231  -24.450020  -216.502691
 0.25000   -1.794469 -250.904488   -2.127647
-181.609510  -22.768894  -277.969191
 0.50000   -1.794469 -244.698011   -2.127647
-191.742790  -21.805082  -339.582979
 0.75000   -1.794469 -238.979283   -2.127647
-202.362539  -21.283073  -401.050923
 1.00000   -1.794469 -233.902330   -2.127647
-213.469779  -21.202218  -462.566381

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    2.421265  140.658247    3.515330
726.298084   36.692835   1832.858
 0.25000    2.421265  165.379094    3.515330
727.886197   33.198818   2191.138
 0.50000    2.421265  192.110311    3.515330
730.758628   32.040886   2552.351
 0.75000    2.421265  219.963952    3.515330
733.872822   32.583022   2793.255
 1.00000    2.421265  247.976546    3.515330
737.214358   33.536136   3030.439

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -2.931050 -459.409196   -5.553577
-189.927240  -35.342094  -295.023090
 0.25000   -2.931050 -426.007507   -5.553577
-185.061381  -30.719833  -378.385886
 0.50000   -2.931050 -394.094208   -5.553577
-180.392370  -27.727649  -461.793976
 0.75000   -2.931050 -364.641774   -5.553577
-175.935548  -25.930864  -545.085220
 1.00000   -2.931050 -338.415019   -5.553577
-171.717698  -24.550338  -628.373733

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    2.768101  142.595929    4.480622
671.282917   48.081343   1977.275
 0.25000    2.768101  162.902793    4.480622
671.445478   43.335910   2351.976
 0.50000    2.768101  184.875659    4.480622
672.956667   40.726463   2703.051
 0.75000    2.768101  207.771123    4.480622
674.863708   39.264405   3025.748
 1.00000    2.768101  230.797175    4.480622
676.928110   38.139462   3313.097
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING              LOAD                >
                                        876

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -5.190652 -465.526614   -9.560632
-498.723641  -85.384498  -329.149565
 0.25000   -5.190652 -438.071545   -9.560632
-495.522547  -75.520784  -421.980524
 0.50000   -5.190652 -411.839879   -9.560632
-492.415984  -67.052887  -514.671096
 0.75000   -5.190652 -387.630882   -9.560632
-489.428315  -59.497613  -607.637113
 1.00000   -5.190652 -366.074477   -9.560632
-486.581902  -52.295809  -700.395372

 COMB DB ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    5.289781  111.607104    9.675939
855.130905  106.945781   2177.478
 0.25000    5.289781  151.882220    9.675939
836.143301   96.689951   2536.257
 0.50000    5.289781  195.314201    9.675939
822.317747   88.640487   2873.236
 0.75000    5.289781  241.010707    9.675939
808.895233   81.268113   3174.181
 1.00000    5.289781  290.267597    9.675939
795.771045   74.395444   3445.241

 COMB DB ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -5.086383 -508.597451   -9.796795
-900.564594  -93.185235  -253.383898
 0.25000   -5.086383 -465.454012   -9.796795
-885.676520  -82.895493  -324.126924
 0.50000   -5.086383 -425.066260   -9.796795
-874.771755  -72.607916  -394.879061
 0.75000   -5.086383 -393.180272   -9.796795
-864.144737  -62.324177  -465.633741
 1.00000   -5.086383 -366.459852   -9.796795
-853.733948  -54.068471  -536.396123

 COMB DL ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    5.711495  147.511615   10.575754
916.591435  114.997890   1997.773
 0.25000    5.711495  172.451405   10.575754
903.840681  103.264836   2378.058
 0.50000    5.711495  199.442988   10.575754
892.106781   93.040835   2729.250
 0.75000    5.711495  227.572957   10.575754
881.332019   83.559180   3049.400
 1.00000    5.711495  257.596181   10.575754
871.470446   74.477910   3331.846

 COMB DL ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -5.190652 -466.932180   -9.560632
-994.256987  -92.833449  -331.710007
 0.25000   -5.190652 -438.418620   -9.560632
-984.532753  -82.014108  -425.100465
 0.50000   -5.190652 -411.839879   -9.560632
-975.541596  -71.221346  -518.494615
 0.75000   -5.190652 -387.630882   -9.560632
-967.233393  -60.453284  -611.772586
 1.00000   -5.190652 -366.161992   -9.560632
-959.592644  -52.295809  -705.120538

 COMB CAR ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    5.711495  147.511615   10.575754
916.591435  114.997890   2177.478
 0.25000    5.711495  172.451405   10.575754
903.840681  103.264836   2536.257
 0.50000    5.711495  199.442988   10.575754
892.106781   93.040835   2873.236
 0.75000    5.711495  241.010707   10.575754
881.332019   83.559180   3174.181
 1.00000    5.711495  290.267597   10.575754
871.470446   74.477910   3445.241
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING              LOAD                >
                                        877

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB CAR ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -5.190652 -508.597451   -9.796795
-994.256987  -93.185235  -331.710007
 0.25000   -5.190652 -465.454012   -9.796795
-984.532753  -82.895493  -425.100465
 0.50000   -5.190652 -425.066260   -9.796795
-975.541596  -72.607916  -518.494615
 0.75000   -5.190652 -393.180272   -9.796795
-967.233393  -62.324177  -611.772586
 1.00000   -5.190652 -366.459852   -9.796795
-959.592644  -54.068471  -705.120538

 COMB DESIGN ------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    5.711495  147.511615   10.575754
916.591435  114.997890   2177.478
 0.25000    5.711495  172.451405   10.575754
903.840681  103.264836   2536.257
 0.50000    5.711495  199.442988   10.575754
892.106781   93.040835   2873.236
 0.75000    5.711495  241.010707   10.575754
881.332019   83.559180   3174.181
 1.00000    5.711495  290.267597   10.575754
871.470446   74.477910   3445.241

 COMB DESIGN ------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -5.190652 -508.597451   -9.796795
-994.256987  -93.185235  -331.710007
 0.25000   -5.190652 -465.454012   -9.796795
-984.532753  -82.895493  -425.100465
 0.50000   -5.190652 -425.066260   -9.796795
-975.541596  -72.607916  -518.494615
 0.75000   -5.190652 -393.180272   -9.796795
-967.233393  -62.324177  -611.772586
 1.00000   -5.190652 -366.459852   -9.796795
-959.592644  -54.068471  -705.120538

 ELEM      56 ================== LENGTH
=    4.958296

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    3.525076   22.960517    7.560392
84.044385   39.606863   961.257106
 0.25000    3.525076   23.540320    7.560392
85.262642   31.117036   1028.434
 0.50000    3.525076   24.177295    7.560392
86.476338   23.278483   1098.332
 0.75000    3.525076   24.855158    7.560392
87.694776   16.433135   1171.951
 1.00000    3.525076   25.555659    7.560392
89.373483   10.731303   1246.141

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -0.989908   -76.823342   -1.512142
-409.107234   -8.109173  -200.490859
 0.25000   -0.989908   -76.129696   -1.512142
-407.412491   -6.237866  -226.752948
 0.50000   -0.989908   -75.468664   -1.512142
-406.151993   -4.369665  -253.015128
 0.75000   -0.989908   -74.857412   -1.512142
-404.899365   -3.298029  -279.277308
 1.00000   -0.989908   -74.312634   -1.512142
-403.648539   -2.890878  -305.539488

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    3.799777   78.766959    8.184236
172.188237   44.912262   2069.106
 0.25000    3.799777   84.562536    8.184236
183.142084   36.354979   2167.909
 0.50000    3.799777   90.929881    8.184236
194.058640   30.156455   2281.661
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING              LOAD                >
                                        878

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
   T          M2          M3
 0.75000    3.799777   97.705853    8.184236
205.021335   25.189743   2414.084
 1.00000    3.799777  104.706320    8.184236
220.128602   21.469211   2553.366

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -5.114921 -196.214713   -8.523551
-732.551390  -53.914968  -361.400032
 0.25000   -5.114921 -189.282408   -8.523551
-717.295859  -43.371923  -408.728438
 0.50000   -5.114921 -182.673508   -8.523551
-705.941646  -32.832444  -456.058556
 0.75000   -5.114921 -176.562094   -8.523551
-694.664243  -23.253985  -503.388674
 1.00000   -5.114921 -171.115428   -8.523551
-683.402629  -14.550597  -550.718792

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    4.009756  168.584088    7.780706
123.322820   56.885799   3158.695
 0.25000    4.009756  202.150209    7.780706
123.322820   49.954668   3371.360
 0.50000    4.009756  239.045825    7.780706
123.322820   44.825270   3542.730
 0.75000    4.009756  278.303906    7.780706
123.322820   41.297568   3677.665
 1.00000    4.009756  318.766844    7.780706
123.322820   39.260785   3774.079

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -3.913375 -431.776896   -7.767180
-548.474185  -33.112518  -487.970078
 0.25000   -3.913375 -391.688958   -7.767180
-550.913436  -26.881368  -551.992914
 0.50000   -3.913375 -353.336011   -7.767180
-552.980760  -20.669430  -616.025298
 0.75000   -3.913375 -317.856226   -7.767180
-555.044214  -15.347363  -680.057796
 1.00000   -3.913375 -286.249378   -7.767180
-557.690704  -10.768802  -744.090293

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    5.569225  166.588318   10.571583
339.698867   77.354425   3437.909
 0.25000    5.569225  194.193535   10.571583
339.698867   66.489910   3633.196
 0.50000    5.569225  224.535226   10.571583
339.698867   57.092794   3810.895
 0.75000    5.569225  256.820148   10.571583
339.698867   48.985708   3975.700
 1.00000    5.569225  290.096017   10.571583
339.698867   42.353304   4120.753

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -3.595945 -421.264747   -6.917017
-512.281928  -28.773516  -536.574601
 0.25000   -3.595945 -388.297554   -6.917017
-512.451834  -23.447258  -607.163484
 0.50000   -3.595945 -356.757722   -6.917017
-512.874046  -18.397328  -677.760357
 0.75000   -3.595945 -327.583113   -6.917017
-513.318994  -14.272585  -748.357234
 1.00000   -3.595945 -301.587611   -6.917017
-513.939179  -10.830737  -818.954111

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    0.527679   93.821811    0.483110
90.268283   14.081074   1422.890
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING              LOAD                >
                                        879

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
   T          M2          M3
 0.25000    0.527679  112.183298    0.483110
110.582675   5.751178   1502.345
 0.50000    0.527679  132.359645    0.483110
130.867605   9.201369   1563.390
 0.75000    0.527679  153.829775    0.483110
151.277018  13.011897   1610.101
 1.00000    0.527679  175.989946    0.483110
179.442414  16.924588   1640.102

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -4.705256 -216.471643   -7.535988
-326.519172  -48.867547  -317.562996
 0.25000   -4.705256 -194.523115   -7.535988
-298.000389  -39.588806  -212.157253
 0.50000   -4.705256 -173.568627   -7.535988
-276.724109  -30.438127  -236.755995
 0.75000   -4.705256 -154.189107   -7.535988
-255.594705  -21.288797  -261.354736
 1.00000   -4.705256 -136.918950   -7.535988
-234.502490  -12.139492  -285.953477

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    2.632353  185.181255    4.048860
153.434335   43.146070   2771.738
 0.25000    2.632353  221.834508    4.048860
153.434335   40.376078   2929.730
 0.50000    2.632353  262.120420    4.048860
153.434335   39.070506   3048.274
 0.75000    2.632353  304.986590    4.048860
153.434335   38.648263   3135.786
 1.00000    2.632353  349.168521    4.048860
153.434335   39.068983   3188.479

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -3.620233 -425.830393   -7.397105
-173.709279  -30.034996  -361.810024
 0.25000   -3.620233 -382.058406   -7.397105
-173.709279  -25.107193  -409.412048
 0.50000   -3.620233 -340.181787   -7.397105
-173.709279  -20.203633  -457.024696
 0.75000   -3.620233 -301.445736   -7.397105
-173.709279  -15.326486  -504.637344
 1.00000   -3.620233 -266.930031   -7.397105
-173.709279  -10.483683  -552.249993

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    3.885314  181.366558    6.866112
192.859379   60.480694   3317.844
 0.25000    3.885314  214.725016    6.866112
192.859379   54.113435   3508.394
 0.50000    3.885314  251.387897    6.866112
192.859379   49.017597   3669.435
 0.75000    3.885314  290.399415    6.866112
192.859379   44.818863   3806.052
 1.00000    3.885314  330.608479    6.866112
192.859379   41.664338   3914.753

 COMB DB-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -4.365345 -444.851797   -8.870976
-467.770426  -41.318306  -485.914921
 0.25000   -4.365345 -405.016102   -8.870976
-467.328305  -34.197962  -549.736805
 0.50000   -4.365345 -366.905897   -8.870976
-466.738717  -27.100481  -613.568194
 0.75000   -4.365345 -331.654290   -8.870976
-466.183324  -20.027313  -677.399583
 1.00000   -4.365345 -300.241520   -8.870976
-465.695256  -12.986165  -741.230973
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING              LOAD                >
                                        880

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    3.881892  163.106602    6.735655
402.799834   57.904920   3445.141
 0.25000    3.881892  191.208995    6.735655
402.799834   51.354150   3644.146
 0.50000    3.881892  222.096667    6.735655
402.799834   45.891401   3823.763
 0.75000    3.881892  254.962652    6.735655
402.799834   41.213531   3986.314
 1.00000    3.881892  288.837445    6.735655
402.799834   37.352492   4128.650

 COMB DB-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -4.091107 -422.620867   -7.999056
-422.416723  -36.608234  -534.694931
 0.25000   -4.091107 -389.060381   -7.999056
-422.416723  -30.021044  -605.126483
 0.50000   -4.091107 -356.953096   -7.999056
-422.416723  -23.675204  -675.566080
 0.75000   -4.091107 -327.253721   -7.999056
-422.416723  -17.496452  -746.005677
 1.00000   -4.091107 -300.790133   -7.999056
-422.416723  -11.778775  -816.445274

 COMB DB-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    0.687242   23.418815    0.537972
396.645881   3.209668   984.469970
 0.25000    0.687242   24.102966    0.537972
394.592310   2.553586   1052.001
 0.50000    0.687242   24.858423    0.537972
393.076336   1.912513   1124.353
 0.75000    0.687242   25.662160    0.537972
391.569442   1.511577   1201.228
 1.00000    0.687242   26.488377    0.537972
390.060412   2.594436   1279.226

 COMB DB-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -1.021554  -80.977646   -1.860250
-74.191784  -16.493747  -198.078555
 0.25000   -1.021554  -80.158369   -1.860250
-75.697474  -14.798337  -224.425175
 0.50000   -1.021554  -79.371775   -1.860250
-77.188925  -13.292885  -250.771795
 0.75000   -1.021554  -78.643927   -1.860250
-78.679046  -12.019652  -277.118465
 1.00000   -1.021554  -77.998534   -1.860250
-80.722621  -10.933596  -303.465192

 COMB DB-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    3.744886   83.407189    6.531369
698.988875   46.768642   2092.073
 0.25000    3.744886   90.731829    6.531369
679.971733   38.696362   2195.262
 0.50000    3.744886   98.814786    6.531369
665.688688   30.671682   2310.325
 0.75000    3.744886  107.414456    6.531369
651.994304   22.797909   2440.391
 1.00000    3.744886  116.257839    6.531369
638.028972   18.186644   2575.911

 COMB DB-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -1.478464 -208.088941   -2.137772
-170.044508  -15.486106  -352.725754
 0.25000   -1.478464 -199.323675   -2.137772
-184.008869  -14.506735  -399.536007
 0.50000   -1.478464 -190.909463   -2.137772
-197.835343  -13.708382  -446.346283
 0.75000   -1.478464 -183.124016   -2.137772
-211.644448  -13.009542  -493.157562
 1.00000   -1.478464 -176.215991   -2.137772
-230.575738  -12.378761  -539.969099
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING              LOAD                >
                                        881

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000    2.748357  169.888248    3.413807
502.974707   37.908668   3155.598
 0.25000    2.748357  203.756363    3.413807
502.974707   35.433348   3367.661
 0.50000    2.748357  240.977550    3.413807
502.974707   33.533855   3538.734
 0.75000    2.748357  280.583437    3.413807
502.974707   32.188340   3673.154
 1.00000    2.748357  321.405187    3.413807
502.974707   33.148013   3770.031

 COMB DB-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
   T          M2          M3
 0.00000   -2.277486 -435.070668   -4.531100
-138.464578  -16.064092  -478.539754
 0.25000   -2.277486 -394.628178   -4.531100
-137.236397  -14.913169  -541.824459
 0.50000   -2.277486 -355.937852   -4.531100
-136.060378  -13.881946  -605.118403
 0.75000   -2.277486 -320.149980   -4.531100
-134.922604  -12.955972  -668.412346
 1.00000   -2.277486 -288.258047   -4.531100
-133.853184  -12.107731  -731.706289

 COMB DB-G3-4 -------------------- MAX
```

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   2.922351  165.594900    4.283776
473.894265   41.744543   3428.874
 0.25000   2.922351  193.328133    4.283776
473.894265   38.152411   3625.969
 0.50000   2.922351  223.809785    4.283776
473.894265   35.628792   3805.236
 0.75000   2.922351  256.243811    4.283776
473.894265   33.811768   3970.409
 1.00000   2.922351  289.673402    4.283776
473.894265   33.992271   4115.600

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.098322  -422.157853   -9.488304
-362.827675  -51.333577  -533.200024
 0.25000  -5.098322  -389.038483   -9.488304
-362.805625  -43.226022  -603.524973
 0.50000  -5.098322  -357.353299   -9.488304
-362.805625  -35.208910  -673.857921
 0.75000  -5.098322  -328.044443   -9.488304
-362.805625  -27.279283  -744.190868
 1.00000  -5.098322  -301.928544   -9.488304
-362.805626  -19.412591  -814.523816

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   4.818038   31.572553    9.469110
108.135956   52.532050   1015.662
 0.25000   4.818038   31.990912    9.469110
109.116555   41.264195   1099.122
 0.50000   4.818038   32.452046    9.469110
110.177355   30.414600   1183.460
 0.75000   4.818038   32.941151    9.469110
111.318171   20.166324   1269.267
 1.00000   4.818038   33.439025    9.469110
112.535677   11.287234   1354.433

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -1.312854  -84.498622   -2.144313
-459.587020  -12.119854  -265.240005
 0.25000  -1.312854  -83.968911   -2.144313
-458.253722   -9.565456  -300.163793
 0.50000  -1.312854  -83.452274   -2.144313
-456.992134   -7.119635  -335.096113
 0.75000  -1.312854  -82.966612   -2.144313
-455.810015   -5.208993  -370.033164
 1.00000  -1.312854  -82.528896   -2.144313
-454.708290   -4.567231  -404.964225
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                882

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.081128   92.851555   10.078450
203.609568   56.539609   2063.688
 0.25000   5.081128   96.331225   10.078450
210.596395   45.470022   2193.317
 0.50000   5.081128  100.167080   10.078450
218.165979   35.967168   2330.157
 0.75000   5.081128  104.233591   10.078450
226.291619   27.521191   2478.269
 1.00000   5.081128  108.373656   10.078450
234.976106   21.048446   2625.461

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.968865  -190.212914   -9.200930
-763.623716  -52.205699  -476.353200
 0.25000  -4.968865  -185.808566   -9.200930
-754.056372  -41.503688  -538.875046
 0.50000  -4.968865  -181.512791   -9.200930
-745.043446  -31.361364  -601.589373
 0.75000  -4.968865  -177.474548   -9.200930
-736.600809  -21.806211  -664.240829
 1.00000  -4.968865  -173.835007   -9.200930
-728.721115  -14.758709  -726.872997

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.156192  175.242815   10.043262
183.655114   66.802275   3077.989
 0.25000   5.156192  198.706721   10.043262
179.029789   57.080157   3306.077
 0.50000   5.156192  224.570014   10.043262
174.752484   48.736146   3551.246
 0.75000   5.156192  251.984145   10.043262
170.803445   41.976264   3664.805
 1.00000   5.156192  279.890164   10.043262
167.168980   37.573449   3790.309

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.440087  -380.207757   -8.679863
-610.718690  -38.788335  -648.818278
 0.25000  -4.440087  -350.574076   -8.679863
-614.914119  -31.052246  -734.031780
 0.50000  -4.440087  -321.657817   -8.679863
-619.389698  -23.779014  -819.809007
 0.75000  -4.440087  -294.465850   -8.679863
-624.156718  -17.578076  -905.206355
 1.00000  -4.440087  -269.943178   -8.679863
-629.226297  -13.432590  -990.471057

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.048880  178.125994   11.488360
379.515784   78.455553   3324.895
 0.25000   6.048880  197.436652   11.488360
376.419547   66.832312   3551.488
 0.50000   6.048880  218.720856   11.488360
373.561077   56.436490   3759.131
 0.75000   6.048880  241.281349   11.488360
370.934444   47.501717   3948.897
 1.00000   6.048880  264.246661   11.488360
368.523283   40.608433   4109.226

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.112539  -376.468294   -7.718233
-567.540210  -34.116653  -705.385785
 0.25000  -4.112539  -352.080927   -7.718233
-570.469277  -27.590718  -798.359503
 0.50000  -4.112539  -328.284006   -7.718233
-573.584546  -21.618169  -891.798425
 0.75000  -4.112539  -305.906080   -7.718233
-576.899265  -16.769376  -984.926287
 1.00000  -4.112539  -285.723725   -7.718233
-580.422371  -13.734680  -1077.927
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                883

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   0.533332   91.697625    0.664983
 93.946535   3.692736   1298.803
 0.25000   0.533332  104.822750    0.664983
111.539689   5.383185   1383.441
 0.50000   0.533332  119.290737    0.664983
130.587932   8.002532   1451.257
 0.75000   0.533332  134.628464    0.664983
151.075957   11.122227   1504.976
 1.00000   0.533332  150.243221    0.664983
172.988885   15.143799   1538.180

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.156909  -181.672262   -7.737965
-311.545790  -41.421598  -243.761928
 0.25000  -4.156909  -165.082860   -7.737965
-287.263521  -33.115945  -275.681521
 0.50000  -4.156909  -148.878255   -7.737965
-264.433873  -25.277027  -307.808115
 0.75000  -4.156909  -133.651599   -7.737965
-242.971903  -17.844102  -339.772498
 1.00000  -4.156909  -119.935591   -7.737965
-222.923835  -11.290565  -371.691590

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   2.234369  181.372765    3.710245
155.459385   36.674164   2555.819
 0.25000   2.234369  207.618831    3.710245
155.459385   34.851909   2722.315
 0.50000   2.234369  236.540521    3.710245
155.459385   34.205237   2854.727
 0.75000   2.234369  267.096622    3.710245
155.459385   34.680386   2958.078
 1.00000   2.234369  298.402917    3.710245
155.459385   36.504786   3020.201

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -3.591490  -358.835402   -7.088009
-175.072517  -27.451221  -475.243528
 0.25000  -3.591490  -325.681537   -7.088009
-175.072517  -22.455322  -537.717491
 0.50000  -3.591490  -293.342470   -7.088009
-175.072517  -17.893748  -600.667540
 0.75000  -3.591490  -262.907596   -7.088009
-175.072517  -13.945712  -663.283829
 1.00000  -3.591490  -235.501490   -7.088009
-175.072517  -11.105003  -725.735154

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.932252  186.563460    7.236097
212.127853   57.804637   3156.939
 0.25000   3.932252  210.533403    7.236097
212.127853   51.380585   3371.268
 0.50000   3.932252  236.945143    7.236097
212.127934   46.011357   3556.948
 0.75000   3.932252  264.940814    7.236097
212.127796   41.844716   3714.560
 1.00000   3.932252  293.438961    7.236097
212.127796   39.563690   3834.775

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.695888  -388.453525   -9.216209
-493.304552   -42.439317  -639.319782
 0.25000  -4.695888  -358.176349   -9.216209
-492.426856   -34.488353  -723.449841
 0.50000  -4.695888  -328.643410   -9.216209
-491.517351   -26.931543  -807.942240
 0.75000  -4.695888  -300.849352   -9.216209
-490.589701   -20.097169  -892.274229
 1.00000  -4.695888  -275.819430   -9.216209
-489.657358   -14.763493  -976.342941
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                884

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.983999  174.486985    7.011819
431.463213   53.833961   3331.751
 0.25000   3.983999  194.754007    7.011819
431.463213   47.406772   3563.982
 0.50000   3.983999  217.087125    7.011819
431.463213   41.899252   3776.132
 0.75000   3.983999  240.759543    7.011819
431.463213   37.613518   3959.192
 1.00000   3.983999  264.856817    7.011819
431.463213   35.144791   4112.806

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.558188  -378.452561   -8.334727
-454.163560  -38.240933  -702.647170
 0.25000  -4.558188  -352.851389   -8.334727
-454.163560  -30.947433  -795.451104
 0.50000  -4.558188  -327.877939   -8.334727
-454.163560  -24.181800  -888.553888
 0.75000  -4.558188  -304.377808   -8.334727
-454.163560  -18.244740  -981.449676
 1.00000  -4.558188  -283.215013   -8.334727
-454.163560  -13.899885   -1074.267

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   0.914180   31.931225    0.717081
433.954143   3.527382   1027.482
 0.25000   0.914180   32.439149    0.717081
432.317231   2.738549   1112.454
 0.50000   0.914180   33.001800    0.717081
430.780180   2.033051   1198.510
 0.75000   0.914180   33.598118    0.717081
429.341198   1.881103   1285.852
 1.00000   0.914180   34.205071    0.717081
428.000063   2.643812   1372.769

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -1.647349  -87.422380   -2.271081
-90.879761  -18.240312  -260.257994
 0.25000  -1.647349  -86.778575   -2.271081
-92.110707  -15.728282  -294.880803
 0.50000  -1.647349  -86.149668   -2.271081
-93.440065  -13.463410  -329.677694
 0.75000  -1.647349  -85.558937   -2.271081
-94.867075  -11.830594  -364.386406
 1.00000  -1.647349  -85.029042   -2.271081
-96.392021  -10.697285  -399.103989

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.516923   95.694374    5.598622
708.177818   40.548327   2064.555
 0.25000   3.516923  100.296447    5.598622
695.815776   34.356984   2195.877
 0.50000   3.516923  105.390411    5.598622
684.207562   28.369401   2332.541
 0.75000   3.516923  110.789095    5.598622
673.342802   23.025503   2477.306
 1.00000   3.516923  116.284487    5.598622
663.218512   19.276172   2619.282

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -2.024910  -197.883788   -2.741538
-181.758316  -18.445053  -461.779369
 0.25000  -2.024910  -192.050694   -2.741538
-191.081936  -16.549590  -523.135271
 0.50000  -2.024910  -186.357472   -2.741538
-201.156770  -14.935392  -584.598372
 0.75000  -2.024910  -181.006469   -2.741538
-211.961302  -13.974267  -646.145902
 1.00000  -2.024910  -176.204401   -2.741538
-223.496126  -13.594872  -707.575911
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                885

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   2.851799  174.080782    3.660919
546.281450   34.218794   3027.750
 0.25000   2.851799  197.825097    3.660919
549.294031   31.995723   3253.492
 0.50000   2.851799  223.981579    3.660919
552.715488   30.413971   3446.087
 0.75000   2.851799  251.706823    3.660919
556.422690   29.995411   3605.600
 1.00000   2.851799  279.929813    3.660919
560.413031   31.502438   3726.846

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -3.191947  -379.343946   -5.042067
-185.014438  -21.751169  -627.712991
 0.25000  -3.191947  -349.357355   -5.042067
-179.789411  -18.719568  -710.720298
 0.50000  -3.191947  -320.109423   -5.042067
-174.809589  -16.076519  -794.278450
 0.75000  -3.191947  -292.582295   -5.042067
-170.080656  -14.302524  -877.503597
 1.00000  -3.191947  -267.784911   -5.042067
-165.628627  -13.727457  -960.550552

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.171796  176.480463    4.754425
523.073329   40.278725   3311.962
 0.25000   3.171796  195.997066    4.754425
524.130922   36.551387   3540.456
 0.50000   3.171796  217.497595    4.754425
526.311817   33.743726   3749.459
 0.75000   3.171796  240.287618    4.754425
528.689922   32.156852   3938.601
 1.00000   3.171796  263.486755    4.754425
531.251125   32.764711   4098.108

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.403654  -377.157859   -9.525994
-412.013592   -50.487033  -700.115878
 0.25000  -5.403654  -352.059317   -9.525994
-408.494572   -41.576368  -792.577402
 0.50000  -5.403654  -328.467992   -9.525994
-405.130592   -33.136169  -885.430654
 0.75000  -5.403654  -305.841114   -9.525994
-401.931732   -25.615523  -978.056010
 1.00000  -5.403654  -285.459292   -9.525994
-398.910219   -19.733045   -1070.622

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.569225  185.181355   10.571583
698.988875   77.354525   3445.141
 0.25000   5.569225  221.834508   10.571583
679.971733   66.489910   3644.146
 0.50000   5.569225  262.120420   10.571583
665.944888   57.092794   3823.763
 0.75000   5.569225  304.986590   10.571583
651.994304   50.177608   3986.314
 1.00000   5.569225  349.168521   10.571583
638.028972   42.353304   4128.650

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.114921  -444.851797   -9.488304
-732.551390   -53.914968  -536.574601
 0.25000  -5.114921  -405.016102   -9.488304
-717.295859   -43.371923  -607.163484
 0.50000  -5.114921  -366.905897   -9.488304
-705.941646   -35.208910  -677.760357
 0.75000  -5.114921  -331.654290   -9.488304
-694.664243   -27.279283  -748.357234
 1.00000  -5.114921  -301.928544   -9.488304
-683.402629   -19.412591  -818.954111
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                886

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.048880  186.563460   11.488360
708.177818   78.455553   3331.751
 0.25000   6.048880  210.533403   11.488360
695.815776   66.832312   3563.982
 0.50000   6.048880  236.945143   11.488360
684.207562   56.436490   3774.132
 0.75000   6.048880  267.196622   11.488360
673.342802   47.501717   3959.192
 1.00000   6.048880  298.402917   11.488360
663.218512   40.608433   4112.806

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.403654  -388.453525   -9.525994
-763.623716  -52.205699  -705.385785
 0.25000  -5.403654  -358.176349   -9.525994
-754.056372  -41.576368  -798.359503
 0.50000  -5.403654  -328.643410   -9.525994
-745.043446  -33.136169  -891.798425
 0.75000  -5.403654  -305.906080   -9.525994
-736.600809  -25.615523  -984.926287
 1.00000  -5.403654  -285.723725   -9.525994
-728.721115  -19.733045   -1077.927

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.048880  186.563460   11.488360
708.177818   78.455553   3445.141
 0.25000   6.048880  221.834508   11.488360
695.815776   66.832312   3644.146
 0.50000   6.048880  262.120420   11.488360
684.207562   57.092794   3823.763
 0.75000   6.048880  304.986590   11.488360
673.342802   48.985708   3986.314
 1.00000   6.048880  349.168521   11.488360
663.218512   42.353304   4128.650

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.403654  -444.851797   -9.525994
-763.623716  -53.914968  -705.385785
 0.25000  -5.403654  -405.016102   -9.525994
-754.056372  -43.371923  -798.359503
 0.50000  -5.403654  -366.905897   -9.525994
-745.043446  -35.208910  -891.798425
 0.75000  -5.403654  -331.654290   -9.525994
-736.600809  -27.279283  -984.926287
 1.00000  -5.403654  -301.928544   -9.525994
-728.721115  -19.733045   -1077.927

 COMB     DESIGN ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.048880  186.563460   11.488360
708.177818   78.455553   3445.141
 0.25000   6.048880  221.834508   11.488360
695.815776   66.832312   3644.146
 0.50000   6.048880  262.120420   11.488360
684.207562   57.092794   3823.763
 0.75000   6.048880  304.986590   11.488360
673.342802   48.985708   3986.314
 1.00000   6.048880  349.168521   11.488360
663.218512   42.353304   4128.650

 COMB     DESIGN ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.403654  -444.851797   -9.525994
-763.623716  -53.914968  -705.385785
 0.25000  -5.403654  -405.016102   -9.525994
-754.056372  -43.371923  -798.359503
 0.50000  -5.403654  -366.905897   -9.525994
-745.043446  -35.208910  -891.798425
 0.75000  -5.403654  -331.654290   -9.525994
-736.600809  -27.279283  -984.926287
 1.00000  -5.403654  -301.928544   -9.525994
-728.721115  -19.733045   -1077.927
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                887

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 ELEM      57 ================== LENGTH
=     4.957389

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.535609   28.509486    3.590304
 76.072401   11.669008   1247.228
 0.25000   3.535609   29.069323    3.590304
 77.335400   8.619584   1258.117
 0.50000   3.535609   29.691237    3.590304
 78.599632   6.322666   1275.503
 0.75000   3.535609   30.358120    3.590304
 79.872950   4.525612   1298.400
 1.00000   3.535609   31.051684    3.590304
 81.595205   3.215667   1326.463

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -1.164680  -51.525936   -0.873773
-241.976596   -2.709841  -305.954555
 0.25000  -1.164680  -50.835923   -0.873773
-240.250629   -2.452815  -332.455907
 0.50000  -1.164680  -50.176676   -0.873773
-238.967916   -4.791796  -358.957261
 0.75000  -1.164680  -49.592486   -0.873773
-237.694745   -7.869305  -385.458615
 1.00000  -1.164680  -49.022798   -0.873773
-236.422752   -11.330442  -411.960180

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.925914  102.238372    4.019826
194.475610   23.149561   2554.994
 0.25000   3.925914  107.832546    4.019826
205.850435   20.113258   2561.893
 0.50000   3.925914  114.057084    4.019826
217.234737   17.898555   2582.271
 0.75000   3.925914  120.719000    4.019826
228.702171   16.542846   2624.997
 1.00000   3.925914  127.651275    4.019826
244.208543   15.858077   2683.104

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.271987  -155.436957   -3.546479
-494.009327   -14.220909  -551.302453
 0.25000  -5.271987  -148.539900   -3.546479
-478.467818   -10.942061  -598.638139
 0.50000  -5.271987  -141.948093   -3.546479
-466.913805   -8.541117  -646.013886
 0.75000  -5.271987  -135.846539   -3.546479
-455.444442   -8.558576  -693.369634
 1.00000  -5.271987  -130.410032   -3.546479
-443.992363   -11.753135  -740.725381

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   4.379511  205.520099    5.464272
131.806543   41.410237   3867.353
 0.25000   4.379511  238.014309    5.464272
130.083006   37.547387   3867.271
 0.50000   4.379511  274.141915    5.464272
130.083006   35.003691   3918.665
 0.75000   4.379511  312.865365    5.464272
130.083006   33.897719   3937.722
 1.00000   4.379511  352.995502    5.464272
130.083082   33.953542   3926.753

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.229436  -381.393955   -4.374274
-343.795808   -11.071311  -744.574524
 0.25000  -4.229436  -341.452727   -4.374274
-345.451481   -9.320542  -808.260913
 0.50000  -4.229436  -303.158423   -4.374274
-347.005269   -8.206735  -871.947305
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                888

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000  -4.229436  -267.698066   -4.374274
-348.491600   -9.439970  -935.633697
 1.00000  -4.229436  -236.107411   -4.374274
-350.688994   -12.611910  -999.320088

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.859308  211.601291    6.257206
```

```
272.596488    44.226225    4121.240
 0.25000      5.859308   238.324221     6.257206
272.596488    39.448149    4187.320
 0.50000      5.859308   268.033193     6.257206
272.596488    36.681318    4237.439
 0.75000      5.859308   299.877367     6.257206
272.596488    34.597582    4268.236
 1.00000      5.859308   332.878744     6.257206
272.596488    34.610721    4292.783

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.864676  -365.224979    -4.053618
-368.301262   -11.541602  -819.151576
 0.25000   -3.864676  -332.379077    -4.053618
-368.652988   -10.126176  -889.359361
 0.50000   -3.864676  -300.887995    -4.053618
-369.036573    -9.250680  -959.568311
 0.75000   -3.864676  -271.727877    -4.053618
-369.445764   -10.349941   -1029.777
 1.00000   -3.864676  -245.748265    -4.053618
-370.069384   -13.070395   -1099.986

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.760278   113.516921     0.772815
126.227068    17.765748    1640.600
 0.25000    0.760278   131.261104     0.772815
147.515183    17.068946    1677.201
 0.50000    0.760278   150.986511     0.772815
168.843493    18.358784    1694.314
 0.75000    0.760278   172.134234     0.772815
190.343524    19.256615    1699.302
 1.00000    0.760278   194.091919     0.772815
219.375534    20.559460    1689.642

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.675108  -199.728753    -2.921942
-276.915691   -12.073501  -286.063699
 0.25000   -4.675108  -177.879332    -2.921942
-247.805391    -8.775241  -310.312349
 0.50000   -4.675108  -156.970196    -2.921942
-226.124278    -5.477244  -334.561002
 0.75000   -4.675108  -137.613160    -2.921942
-204.610547    -2.544210  -358.809654
 1.00000   -4.675108  -120.366436    -2.921942
-183.139863    -2.368357  -383.058306

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.027718   222.182794     3.718406
147.249233    40.403962    3188.463
 0.25000    3.027718   257.664215     3.718406
147.249233    38.524477    3264.358
 0.50000    3.027718   297.109634     3.718406
147.249233    37.764604    3299.158
 0.75000    3.027718   339.390217     3.718406
147.249233    38.324666    3306.524
 1.00000    3.027718   383.207405     3.718406
147.249233    39.980591    3282.990

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.782257  -393.848139    -4.330573
-154.443080   -11.054706  -552.235432
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD                >
                                889

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.25000   -3.782257  -350.237425    -4.330573
-154.443080    -9.245035  -599.121943
 0.50000   -3.782257  -308.425721    -4.330573
-154.443080    -7.445163  -646.010049
 0.75000   -3.782257  -269.129094    -4.330573
-154.443080    -5.698177  -692.898155
 1.00000   -3.782257  -235.214692    -4.330573
-154.443080    -5.540134  -739.786261

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.232497   227.320355     4.949930
188.275968    43.695145    3915.512
 0.25000    4.232497   259.611648     4.949930
188.275968    40.306978    3991.522
 0.50000    4.232497   295.508464     4.949930
188.275968    38.089572    4034.470
 0.75000    4.232497   333.985948     4.949930
188.275968    37.292948    4057.299
 1.00000    4.232497   373.862247     4.949930
188.276063    37.794574    4059.104

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.466721  -397.175985    -4.854496
-332.335451   -13.444704  -741.510324
 0.25000   -4.466721  -357.487717    -4.854496
-331.620256   -10.665674  -804.754852
 0.50000   -4.466721  -319.437125    -4.854496
-330.886019    -8.029376  -868.000822
 0.75000   -4.466721  -284.203683    -4.854496
-330.212438    -7.139393  -931.246792
 1.00000   -4.466721  -252.810924    -4.854496
-329.617067    -7.577352  -994.492762

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.162873   211.928917     4.470163
306.376408    39.100788    4128.583
 0.25000    4.162873   239.164930     4.470163
306.376408    35.758151    4199.016
 0.50000    4.162873   269.376186     4.470163
306.376408    33.415734    4245.087
 0.75000    4.162873   301.793194     4.470163
306.376408    32.468768    4278.076
 1.00000    4.162873   335.388336     4.470163
306.376408    32.845961    4299.024

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.198374  -366.903451    -4.239129
-316.927170   -13.235182  -816.417618
 0.25000   -4.198374  -333.466615    -4.239129
-316.927170   -10.845735  -886.435418
 0.50000   -4.198374  -301.409101    -4.239129
-316.927170    -8.605645  -956.454163
 0.75000   -4.198374  -271.724611    -4.239129
-316.927170    -7.843504   -1026.473
 1.00000   -4.198374  -245.277364    -4.239129
-316.927170    -8.210667   -1096.492

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.854013    30.435824     0.680611
238.792091    3.593338    1278.057
 0.25000    0.854013    31.099965     0.680611
236.712536    3.567870    1289.864
 0.50000    0.854013    31.841778     0.680611
235.176718    3.627817    1307.395
 0.75000    0.854013    32.636589     0.680611
233.647750    3.749975    1331.544
 1.00000    0.854013    33.457364     0.680611
232.117927    3.926738    1361.641
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD                >
                                890

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -1.020284   -55.008205    -1.802742
-70.272242   -10.012656  -303.027327
 0.25000   -1.020284   -54.190959    -1.802742
-71.797851    -8.433469  -329.638778
 0.50000   -1.020284   -53.404676    -1.802742
-73.319892    -7.267593  -356.250231
 0.75000   -1.020284   -52.676291    -1.802742
-74.849694    -6.558121  -382.861684
 1.00000   -1.020284   -52.030727    -1.802742
-76.926062    -6.291478  -409.473137

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.905421   106.974409     3.244323
485.454893    19.635814    2574.195
 0.25000    3.905421   114.082104     3.244323
466.208341    17.883250    2587.240
 0.50000    3.905421   122.016004     3.244323
451.990848    16.806678    2610.008
 0.75000    3.905421   130.517195     3.244323
437.850543    16.506327    2650.579
 1.00000    3.905421   139.300329     3.244323
423.688196    16.801377    2704.608

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -1.602486  -167.483107    -2.571527
-192.227109   -11.225317  -539.363778
 0.25000   -1.602486  -158.738231    -2.571527
-206.346869    -9.836651  -586.172462
 0.50000   -1.602486  -150.328662    -2.571527
-220.434745    -8.805553  -632.981088
 0.75000   -1.602486  -142.538780    -2.571527
-234.592188    -8.251120  -679.793714
 1.00000   -1.602486  -135.624759    -2.571527
-253.814451    -8.163909  -726.604340

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.225009   207.186242     3.635601
321.469226    35.211264    3768.686
 0.25000    3.225009   239.969839     3.635601
321.468789    33.485284    3861.724
 0.50000    3.225009   276.412492     3.635601
321.468738    32.748651    3913.676
 0.75000    3.225009   315.475445     3.635601
321.469175    33.146328    3932.613
 1.00000    3.225009   355.958790     3.635601
322.172347    34.478439    3922.067

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -2.366649  -384.806843    -4.024444
-138.592955   -11.685512  -731.198759
 0.25000   -2.366649  -344.514479    -4.024444
-137.075454   -10.350473  -794.145083
 0.50000   -2.366649  -305.885044    -4.024444
-135.743620    -9.329706  -857.092740
 0.75000   -2.366649  -270.115959    -4.024444
-134.477059    -8.759663  -920.040397
 1.00000   -2.366649  -238.244767    -4.024444
-133.289898    -8.656254  -982.988054

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.350621   211.088297     3.695393
347.841445    36.400943    4115.935
 0.25000    3.350621   237.934837     3.695393
347.841445    34.336829    4182.935
 0.50000    3.350621   267.780369     3.695393
347.841445    33.181372    4228.699
 0.75000    3.350621   299.771152     3.695393
347.841445    33.105637    4236.464
 1.00000    3.350621   332.924642     3.695393
347.841445    33.929510    4288.488
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD                >
                                891

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -5.195575  -365.829060    -5.585123
-279.744329   -19.003948  -814.301503
 0.25000   -5.195575  -332.831815    -5.585123
-279.688165   -15.120280  -884.280515
 0.50000   -5.195575  -301.195826    -5.585123
-279.669366   -11.518575  -954.260628
 0.75000   -5.195575  -271.901737    -5.585123
-279.669366    -9.140280   -1024.241
 1.00000   -5.195575  -245.802057    -5.585123
-279.669366    -9.170949   -1094.221

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.908442    44.175823     4.226255
110.409711    12.528741    1355.914
 0.25000    4.908442    44.601215     4.226255
111.439444     8.893153    1387.030
 0.50000    4.908442    45.072583     4.226255
112.550526     6.334974    1418.782
 0.75000    4.908442    45.572953     4.226255
113.741944     5.103061    1451.260
 1.00000    4.908442    46.082461     4.226255
115.014266     4.845938    1484.948

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -1.494912   -52.930379    -1.228171
-236.967480    -4.942872  -405.532686
 0.25000   -1.494912   -52.415503    -1.228171
-235.648427    -5.125540  -440.738267
 0.50000   -1.494912   -51.912287    -1.228171
-234.409763    -6.546467  -475.943947
 0.75000   -1.494912   -51.438244    -1.228171
-233.251918    -9.579362  -511.180747
 1.00000   -1.494912   -51.012303    -1.228171
-232.174721   -13.778912  -546.425884

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    5.298216   120.524948     4.814632
237.140415    23.169399    2627.532
 0.25000    5.298216   124.062667     4.814632
244.490888    19.816965    2668.628
 0.50000    5.298216   127.982834     4.814632
252.422886    18.012695    2715.599
 0.75000    5.298216   132.143744     4.814632
260.922633    17.951275    2774.991
 1.00000    5.298216   136.381580     4.814632
269.999255    19.140275    2840.226

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -5.173636  -141.798076    -4.063286
-455.908908   -15.293098  -727.668295
 0.25000   -5.173636  -137.514094    -4.063286
-446.488533   -12.425468  -790.380138
 0.50000   -5.173636  -133.327498    -4.063286
-437.670501   -11.486451  -852.908715
 0.75000   -5.173636  -129.386809    -4.063286
-429.370254   -12.438004  -915.595088
 1.00000   -5.173636  -125.844585    -4.063286
-421.676764   -15.760594  -978.270198

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    5.580645   211.732125     5.952360
207.089366    40.448581    3792.015
 0.25000    5.580645   235.588712     5.952360
202.451362    36.842394    3907.516
 0.50000    5.580645   262.026137     5.952360
198.122983    34.931119    3989.903
 0.75000    5.580645   290.086129     5.952360
194.097241    35.007778    4041.848
 1.00000    5.580645   318.665150     5.952360
190.369119    36.161333    4060.552
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD                >
                                892

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.870405  -319.729162    -4.702180
-347.639786   -14.454934  -991.132542
 0.25000   -4.870405  -290.860357    -4.702180
-351.604012   -12.726893   -1075.943
 0.50000   -4.870405  -262.653991    -4.702180
-355.861443   -12.670759   -1160.645
 0.75000   -4.870405  -236.069109    -4.702180
-360.419634   -14.387305   -1245.473
 1.00000   -4.870405  -212.192658    -4.702180
-365.283115   -17.878591   -1330.442

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    6.410216   220.809980     6.368719
314.494497    44.340201    4109.965
 0.25000    6.410216   240.443832     6.368719
311.378178    40.112930    4211.396
 0.50000    6.410216   262.200444     6.368719
308.469935    37.465059    4293.458
 0.75000    6.410216   285.292362     6.368719
305.764019    36.861402    4361.284
 1.00000    6.410216   308.811418     6.368719
303.263218    37.656094    4407.120

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.505003  -310.743288    -4.346881
-376.868011   -15.817110   -1078.211
 0.25000   -4.505003  -286.985714    -4.346881
-379.582230   -14.359495   -1170.722
 0.50000   -4.505003  -263.773358    -4.346881
-382.495836   -14.309952   -1263.076
 0.75000   -4.505003  -241.895319    -4.346881
-385.614059   -15.751982   -1355.534
 1.00000   -4.505003  -222.245195    -4.346881
-388.945249   -18.688668   -1448.138

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.758726   106.173519     0.854742
121.759105    15.914184    1538.624
 0.25000    0.758726   119.521137     0.854742
140.370357    16.652606    1584.963
 0.50000    0.758726   134.309233     0.854742
160.455715    17.805044    1614.058
 0.75000    0.758726   150.005409     0.854742
181.053272    19.383631    1629.782
 1.00000    0.758726   165.989037     0.854742
204.902585    21.284714    1627.732

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.223605  -162.630228    -3.105836
-251.026207   -11.259392  -371.841978
 0.25000   -4.223605  -146.472609    -3.105836
-227.128776    -8.856769  -403.394784
 0.50000   -4.223605  -130.680918    -3.105836
-204.647147    -6.629061  -434.812097
 0.75000   -4.223605  -115.816843    -3.105836
-183.667445    -4.468042  -466.245339
 1.00000   -4.223605  -102.463535    -3.105836
-164.132908    -3.697999  -497.872886

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    2.625554   209.073266     3.291166
140.666717    38.520130    3020.189
 0.25000    2.625554   235.758727     3.291166
140.666717    37.764536    3112.503
 0.50000    2.625554   265.321896     3.291166
140.666717    37.768934    3170.062
 0.75000    2.625554   296.699599     3.291166
140.666717    38.626049    3199.831
 1.00000    2.625554   328.657730     3.291166
140.666717    40.213457    3193.349
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD                >
                                893

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.867118  -321.869494    -4.033294
-146.588659   -11.978566  -725.725529
 0.25000   -3.867118  -289.587016    -4.033294
-146.588659   -10.785736  -787.345269
 0.50000   -3.867118  -258.045775    -4.033294
-146.588659    -9.777539  -848.735909
 0.75000   -3.867118  -228.333078    -4.033294
-146.588659    -8.847883  -910.252532
 1.00000   -3.867118  -201.610033    -4.033294
-146.588659    -8.749630  -971.936570

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.319536   226.394193     4.901128
215.006768    42.438542    3835.808
 0.25000    4.319536   250.765458     4.901128
215.049527    39.855636    3941.180
 0.50000    4.319536   277.762890     4.901128
215.134679    38.370001    4017.888
 0.75000    4.319536   306.417402     4.901128
215.262478    38.318524    4070.819
 1.00000    4.319536   335.601974     4.901128
215.656288    39.570942    4091.971

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.955610  -333.096060    -4.983063
-316.864466   -15.996830  -976.736900
 0.25000   -4.955610  -303.615225    -4.983063
-315.865020   -13.653514   -1060.118
 0.50000   -4.955610  -274.811399    -4.983063
-314.901358   -11.816579   -1143.296
 0.75000   -4.955610  -247.677355    -4.983063
-313.980777   -11.073311   -1226.588
 1.00000   -4.955610  -223.271830    -4.983063
-313.110113   -12.156258   -1310.026

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.331582   219.928813     4.548738
318.962651    39.186009    4112.759
 0.25000    4.331582   240.535131     4.548738
318.962651    36.576220    4219.308
 0.50000    4.331582   263.363595     4.548738
318.962651    34.996561    4304.147
 0.75000    4.331582   287.593229     4.548738
318.962651    34.757565    4370.262
 1.00000    4.331582   312.271065     4.548738
318.962651    35.678453    4410.517

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.820304  -313.812698    -4.467683
-326.127004   -16.648992   -1074.251
 0.25000   -4.820304  -288.884704    -4.467683
-326.127004   -14.562784   -1166.451
 0.50000   -4.820304  -264.528787    -4.467683
-326.127004   -12.921190   -1258.501
 0.75000   -4.820304  -241.584859    -4.467683
-326.127004   -12.207767   -1350.671
 1.00000   -4.820304  -220.949519    -4.467683
-326.127004   -13.038294   -1442.932

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    1.086482    45.679359     0.870997
228.114224    5.450186    1371.265
 0.25000    1.086482    46.198580     0.870997
226.499116    5.099649    1402.711
 0.50000    1.086482    46.773963     0.870997
224.963515    4.816473    1435.336
 0.75000    1.086482    47.384419     0.870997
223.566786    4.744569    1468.890
 1.00000    1.086482    48.006135     0.870997
222.249210    4.977118    1504.511
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD                >
                                894

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -1.763030   -55.756315    -1.716807
-100.302105   -12.264436   -398.524880
 0.25000   -1.763030   -55.128277    -1.716807
-101.577959   -10.644586   -433.592073
 0.50000   -1.763030   -54.513884    -1.716807
-102.953382    -9.234558   -468.618916
 0.75000   -1.763030   -53.935715    -1.716807
-104.428415    -8.386628   -504.144856
 1.00000   -1.763030   -53.418685    -1.716807
-106.002683    -8.104647   -540.077425

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.744523   122.973516     3.155909
437.555920    23.398165    2617.202
 0.25000    3.744523   127.678213     3.155909
425.353082    21.540222    2661.255
 0.50000    3.744523   132.887210     3.155909
413.902237    20.074457    2709.444
 0.75000    3.744523   138.413750     3.155909
403.203268    19.115296    2761.807
 1.00000    3.744523   144.042245     3.155909
393.253964    18.695847    2829.398

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -2.270111  -150.099761    -2.495431
-220.843817   -15.954056  -706.780882
 0.25000   -2.270111  -144.411418    -2.495431
-230.494020   -14.533362  -768.262347
 0.50000   -2.270111  -138.851417    -2.495431
-240.896305   -13.440628  -829.545797
 0.75000   -2.270111  -133.617201    -2.495431
-252.049682   -12.790392  -890.879456
 1.00000   -2.270111  -128.932485    -2.495431
-263.953574   -12.576510  -952.294754

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.311391   209.979989     3.505429
318.402260    35.922463    3725.073
 0.25000    3.311391   234.114643     3.505429
322.075119    34.845541    3840.445
 0.50000    3.311391   260.850717     3.505429
326.036429    34.374065    3922.423
 0.75000    3.311391   289.227932     3.505429
330.291439    34.728297    3973.563
 1.00000    3.311391   318.130102     3.505429
334.833195    35.718998    3990.760

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.468930  -319.945787    -3.836230
-199.289207   -16.125207   -959.886497
 0.25000   -3.468930  -290.764667    -3.836230
-194.224676   -15.015821   -1042.611
 0.50000   -3.468930  -262.214476    -3.836230
-189.440465   -14.205082   -1125.115
 0.75000   -3.468930  -235.353415    -3.836230
-184.949692   -13.796728   -1207.648
 1.00000   -3.468930  -211.177730    -3.836230
-180.749806   -13.767259   -1290.356

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.603981   219.867832     3.866605
358.694594    37.268368    4097.302
 0.25000    3.603981   239.705255     3.866605
361.103008    35.768016    4200.179
 0.50000    3.603981   261.682289     3.866605
363.713932    35.128605    4283.366
 0.75000    3.603981   285.008320     3.866605
366.515072    35.548812    4351.292
 1.00000    3.603981   308.765800     3.866605
369.503899    36.923229    4396.323
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <          MOVING          LOAD                >
                                895
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.634455	-311.327990	-5.410201
-322.408138		-21.967307	-1070.345	
0.25000		-5.634455	-287.341158	-5.410201
-319.007750		-18.785397	-1162.399	
0.50000		-5.634455	-263.873002	-5.410201
-315.793692		-16.161326	-1254.275	
0.75000		-5.634455	-241.793231	-5.410201
-312.775234		-14.320094	-1357.647	
1.00000		-5.634455	-221.922043	-5.410201
-309.949679		-14.399849	-1450.529	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.859308	227.320355	6.257206
485.454893		44.226225	4128.583	
0.25000		5.859308	259.611648	6.257206
466.208341		40.306978	4199.016	
0.50000		5.859308	297.109634	6.257206
451.990848		38.095672	4245.087	
0.75000		5.859308	339.390217	6.257206
437.850543		38.324666	4278.076	
1.00000		5.859308	383.207405	6.257206
423.688196		39.980591	4299.024	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.271987	-397.175985	-5.585123
-494.009327		-19.003948	-819.151576	
0.25000		-5.271987	-357.487717	-5.585123
-478.467818		-15.120280	-889.359361	
0.50000		-5.271987	-319.437125	-5.585123
-466.913805		-11.518575	-959.568311	
0.75000		-5.271987	-284.203683	-5.585123
-455.444442		-10.345941	-1029.777	
1.00000		-5.271987	-252.810924	-5.585123
-443.992363		-13.070395	-1099.986	

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.410216	226.394193	6.368719
437.555920		44.340201	4112.759	
0.25000		6.410216	250.765458	6.368719
425.353082		40.119230	4219.308	
0.50000		6.410216	277.762890	6.368719
413.902237		38.370001	4304.147	
0.75000		6.410216	306.417402	6.368719
403.203268		38.626049	4370.262	
1.00000		6.410216	335.601974	6.368719
393.253964		40.213457	4410.517	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.634455	-333.096060	-5.410201
-455.908908		-21.967307	-1078.211	
0.25000		-5.634455	-303.615225	-5.410201
-446.488533		-18.785397	-1170.722	
0.50000		-5.634455	-274.811399	-5.410201
-437.670501		-16.161326	-1263.076	
0.75000		-5.634455	-247.677355	-5.410201
-429.370254		-15.751982	-1357.647	
1.00000		-5.634455	-223.271830	-5.410201
-421.676764		-18.688668	-1450.529	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.410216	227.320355	6.368719
485.454893		44.340201	4128.583	
0.25000		6.410216	259.611648	6.368719
466.208341		40.306978	4219.308	
0.50000		6.410216	297.109634	6.368719
451.990848		38.370001	4304.147	
0.75000		6.410216	339.390217	6.368719
437.850543		38.626049	4370.262	
1.00000		6.410216	383.207405	6.368719
423.688196		40.213457	4410.517	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
896

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.634455	-397.175985	-5.585123
-494.009327		-21.967307	-1078.211	
0.25000		-5.634455	-357.487717	-5.585123
-478.467818		-18.785397	-1170.722	
0.50000		-5.634455	-319.437125	-5.585123
-466.913805		-16.161326	-1263.076	
0.75000		-5.634455	-284.203683	-5.585123
-455.444442		-15.751982	-1357.647	
1.00000		-5.634455	-252.810924	-5.585123
-443.992363		-18.688668	-1450.529	

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.410216	227.320355	6.368719
485.454893		44.340201	4128.583	
0.25000		6.410216	259.611648	6.368719
466.208341		40.306978	4219.308	
0.50000		6.410216	297.109634	6.368719
451.990848		38.370001	4304.147	
0.75000		6.410216	339.390217	6.368719
437.850543		38.626049	4370.262	
1.00000		6.410216	383.207405	6.368719
423.688196		40.213457	4410.517	

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.634455	-397.175985	-5.585123
-494.009327		-21.967307	-1078.211	
0.25000		-5.634455	-357.487717	-5.585123
-478.467818		-18.785397	-1170.722	
0.50000		-5.634455	-319.437125	-5.585123
-466.913805		-16.161326	-1263.076	
0.75000		-5.634455	-284.203683	-5.585123
-455.444442		-15.751982	-1357.647	
1.00000		-5.634455	-252.810924	-5.585123
-443.992363		-18.688668	-1450.529	

ELEM 58 ========== LENGTH = 4.957821

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.518817	57.441141	1.373630
203.657001		3.397330	1326.556	
0.25000		3.518817	57.996355	1.373630
204.929336		2.937030	1289.678	
0.50000		3.518817	58.613356	1.373630
206.203185		2.690934	1257.866	
0.75000		3.518817	59.274487	1.373630
207.485684		2.664815	1234.381	
1.00000		3.518817	59.961043	1.373630
209.211690		2.885388	1218.972	

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-1.337200	-30.049454	-1.323429
-97.828655		-11.168844	-412.304137	
0.25000		-1.337200	-29.367437	-1.323429
-96.105404		-10.284953	-439.299918	
0.50000		-1.337200	-28.717094	-1.323429
-94.829654		-9.900904	-466.295699	
0.75000		-1.337200	-28.116584	-1.323429
-93.563078		-9.985541	-493.291480	
1.00000		-1.337200	-27.583135	-1.323429
-92.298075		-10.455353	-520.290113	

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.031348	149.508401	2.600822
399.617019		16.241326	2683.302	
0.25000		4.031348	155.060335	2.600822
411.074632		14.544521	2606.677	
0.50000		4.031348	161.230137	2.600822
422.544681		13.351578	2545.444	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
897

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000		4.031348	167.840898	2.600822
434.098711		12.781863	2511.742	
1.00000		4.031348	174.703602	2.600822
449.640048		13.453106	2493.595	

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.411865	-118.332896	-1.853305
-283.349896		-11.283873	-741.205619	
0.25000		-5.411865	-111.515541	-1.853305
-267.834136		-10.679114	-788.629851	
0.50000		-5.411865	-105.012645	-1.853305
-256.342622		-10.554652	-836.062317	
0.75000		-5.411865	-99.007770	-1.853305
-244.940032		-11.187519	-883.494783	
1.00000		-5.411865	-93.673492	-1.853305
-233.550293		-12.818508	-930.927249	

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.733491	265.120836	4.295455
309.717462		34.448103	3926.833	
0.25000		4.733491	297.390796	4.295455
307.486547		31.628674	3906.959	
0.50000		4.733491	333.256148	4.295455
305.966490		29.829954	3859.535	
0.75000		4.733491	371.666649	4.295455
304.400370		29.287661	3787.844	
1.00000		4.733491	411.420030	4.295455
302.761844		30.433410	3680.076	

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.691585	-331.854717	-3.215243
-162.250859		-12.610508	-999.721746	
0.25000		-4.691585	-292.362946	-3.215243
-163.755307		-12.166254	-1062.752	
0.50000		-4.691585	-254.578760	-3.215243
-165.216258		-12.136655	-1125.790	
0.75000		-4.691585	-219.673062	-3.215243
-166.637079		-12.733411	-1188.828	
1.00000		-4.691585	-188.669300	-3.215243
-168.824280		-14.123897	-1251.866	

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.126811	277.323086	4.073832
350.261879		35.119783	4292.800	
0.25000		6.126811	303.861236	4.073832
349.674832		32.456083	4236.922	
0.50000		6.126811	333.354299	4.073832
349.247127		30.786601	4170.455	
0.75000		6.126811	364.940846	4.073832
349.104149		30.329267	4103.040	
1.00000		6.126811	397.632139	4.073832
349.104149		31.492342	4019.171	

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.282690	-310.941955	-3.256835
-286.448493		-13.495521	-1100.154	
0.25000		-4.282690	-278.465807	-3.256835
-286.448493		-12.833206	-1169.640	
0.50000		-4.282690	-247.394317	-3.256835
-286.448493		-12.675392	-1239.134	
0.75000		-4.282690	-218.690381	-3.256835
-286.448493		-13.048714	-1308.627	
1.00000		-4.282690	-193.193493	-3.256835
-286.869588		-14.087713	-1378.120	

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.995997	133.751185	2.022304
174.450205		20.725759	1689.869	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
898

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000		0.995997	151.365962	2.022304
195.925263		19.271256	1685.618	
0.50000		0.995997	170.941338	2.022304
217.438974		18.338121	1668.370	
0.75000		0.995997	191.911920	2.022304
239.114385		18.055833	1642.752	
1.00000		0.995997	213.654938	2.022304
268.217090		18.322878	1598.049	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.623576	-181.530616	-1.212337
-228.444203		-2.188425	-383.147966	
0.25000		-4.623576	-159.931041	-1.212337
-199.399296		-2.513547	-406.712904	
0.50000		-4.623576	-139.302538	-1.212337
-177.864618		-2.856937	-430.277842	
0.75000		-4.623576	-120.250635	-1.212337
-156.502196		-3.421820	-453.842780	
1.00000		-4.623576	-103.326656	-1.212337
-135.181417		-4.410504	-477.407717	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.418681	261.013505	3.918116
149.372977		40.313598	3282.970	
0.25000		3.418681	296.249456	3.918116
149.372977		37.628474	3279.981	
0.50000		3.418681	335.408113	3.918116
149.372977		36.052658	3248.897	
0.75000		3.418681	377.346543	3.918116
149.372977		35.816824	3197.716	
1.00000		3.418681	420.751930	3.918116
149.372977		36.765223	3106.399	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.157291	-358.720421	-2.866025
-145.453309		-5.686710	-739.778700	
0.25000		-4.157291	-315.600693	-2.866025
-145.453309		-5.737183	-785.260854	
0.50000		-4.157291	-274.346124	-2.866025
-145.453309		-6.008723	-830.743008	
0.75000		-4.157291	-236.235202	-2.866025
-145.453309		-6.481166	-876.225162	
1.00000		-4.157291	-202.381772	-2.866025
-145.453309		-7.340615	-921.707316	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.569189	283.892474	4.121376
303.299372		38.344313	4059.152	
0.25000		4.569189	315.960001	4.121376
303.883426		35.243530	4026.184	
0.50000		4.569189	351.595596	4.121376
304.537648		33.343034	3973.722	
0.75000		4.569189	389.761427	4.121376
305.244937		33.307331	3908.529	
1.00000		4.569189	429.262702	4.121376
305.931202		34.320606	3815.052	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.794918	-349.063844	-2.888608
-218.472229		-6.656711	-994.726400	
0.25000		-4.794918	-309.822544	-2.888608
-217.832692		-6.831719	-1056.838	
0.50000		-4.794918	-272.279056	-2.888608
-217.232175		-7.252221	-1118.950	
0.75000		-4.794918	-237.596924	-2.888608
-216.691310		-7.866098	-1181.068	
1.00000		-4.794918	-206.787566	-2.888608
-216.222587		-8.799726	-1243.189	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
899

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.435587	277.070817	3.713763
318.578440		33.531293	4298.986	
0.25000		4.435587	304.086625	3.713763
318.578440		30.814368	4246.917	
0.50000		4.435587	334.110018	3.713763
318.578440		29.448424	4183.259	
0.75000		4.435587	366.264694	3.713763
318.578440		29.638002	4113.145	
1.00000		4.435587	399.544103	3.713763
318.578440		30.693803	4026.026	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.458884	-312.879581	-2.631126
-310.501232		-8.343435	-1096.471	
0.25000		-4.458884	-279.819190	-2.631126
-310.501232		-8.447464	-1165.702	
0.50000		-4.458884	-248.188838	-2.631126
-310.501232		-8.722911	-1234.932	
0.75000		-4.458884	-218.968757	-2.631126
-310.501232		-9.158480	-1304.169	
1.00000		-4.458884	-193.012943	-2.631126
-310.501232		-9.860832	-1373.407	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		1.022035	59.775802	1.358251
102.505569		4.446648	1361.506	
0.25000		1.022035	60.436033	1.358251
100.426174		3.501405	1323.726	
0.50000		1.022035	61.172920	1.358251
98.891951		3.425390	1292.057	
0.75000		1.022035	61.961722	1.358251
97.566866		4.007971	1269.508	
1.00000		1.022035	62.775371	1.358251
95.840411		4.878908	1254.162	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-1.013896	-32.755750	-1.198379
-198.520149		-5.980177	-409.107181	
0.25000		-1.013896	-31.947432	-1.198379
-200.051057		-5.402337	-436.290722	
0.50000		-1.013896	-31.171483	-1.198379
-201.580237		-5.321508	-463.476417	
0.75000		-1.013896	-30.454332	-1.198379
-203.118167		-5.749768	-490.662113	
1.00000		-1.013896	-29.820083	-1.198379
-205.199039		-6.639632	-517.847808	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.051615	153.619931	2.519597
296.493650		17.550010	2704.345	
0.25000		4.051615	160.684786	2.519597
277.246158		15.797849	2633.351	
0.50000		4.051615	168.565336	2.519597
263.047614		15.492251	2576.249	
0.75000		4.051615	177.001651	2.519597
248.929345		16.207170	2541.271	
1.00000		4.051615	185.707661	2.519597
234.796409		17.525541	2518.617	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-1.718209	-130.158007	-2.252957
-383.181141		-7.993783	-726.105478	
0.25000		-1.718209	-121.509067	-2.252957
-397.350804		-7.913932	-772.978026	
0.50000		-1.718209	-113.210235	-2.252957
-411.504726		-7.108589	-819.856937	
0.75000		-1.718209	-105.540726	-2.252957
-425.731796		-6.928810	-866.735848	
1.00000		-1.718209	-98.753779	-2.252957
-444.994235		-7.681784	-913.614760	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
900

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.699469	266.149848	4.184500
168.100535		35.297153	3921.922	
0.25000		3.699469	298.706014	4.184500
169.276498		32.417539	3903.108	
0.50000		3.699469	334.883297	4.184500
170.523699		31.379793	3857.776	
0.75000		3.699469	373.629663	4.184500
171.828426		31.839911	3786.652	
1.00000		3.699469	413.732094	4.184500
173.316817		33.367884	3679.225	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-2.715254	-335.237162	-3.331189
-290.489440		-9.052576	-982.570388	
0.25000		-2.715254	-295.398668	-3.331189
-289.040399		-8.931115	-1044.899	
0.50000		-2.715254	-257.284112	-3.331189
-287.855329		-8.996103	-1107.235	
0.75000		-2.715254	-222.074778	-3.331189
-286.725661		-9.087663	-1169.570	
1.00000		-2.715254	-190.795930	-3.331189
-285.669288		-9.852330	-1231.905	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.771858	276.867168	4.328461
294.654821		34.827912	4288.402	
0.25000		3.771858	303.527921	4.328461
294.654821		31.788718	4233.419	
0.50000		3.771858	333.156441	4.328461
294.654821		30.763061	4168.322	
0.75000		3.771858	364.888299	4.328461
294.671645		31.216202	4100.438	
1.00000		3.771858	397.730168	4.328461
294.721160		32.652537	4015.817	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.445986	-311.319867	-3.114081
-333.027778		-8.822241	-1094.037	
0.25000		-5.445986	-278.694138	-3.114081
-333.027778		-8.914010	-1163.376	
0.50000		-5.445986	-247.479710	-3.114081
-333.027778		-9.280377	-1232.720	
0.75000		-5.445986	-218.643933	-3.114081
-333.027778		-10.120913	-1302.064	
1.00000		-5.445986	-193.029239	-3.114081
-333.027778		-11.768589	-1371.408	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.961233	72.121908	1.296928
228.369828		3.423240	1485.238	
0.25000		4.961233	72.559550	1.296928
229.440352		3.324140	1465.974	
0.50000		4.961233	73.042649	1.296928
230.591413		3.614243	1447.055	
0.75000		4.961233	73.553631	1.296928
231.823130		4.209952	1429.839	
1.00000		4.961233	74.070975	1.296928
233.135360		5.022429	1414.119	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-1.673724	-30.862108	-1.727148
-84.276630		-12.314203	-546.903772	
0.25000		-1.673724	-30.363507	-1.727148
-82.998062		-11.379700	-582.783649	
0.50000		-1.673724	-29.875807	-1.727148
-81.799705		-10.835426	-618.659959	
0.75000		-1.673724	-29.418549	-1.727148
-80.681721		-11.047815	-654.463316	
1.00000		-1.673724	-29.009487	-1.727148
-79.644281		-11.796312	-690.401359	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
901

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.492274	165.065599	3.073496
414.450382		17.156295	2840.635	
0.25000		5.492274	168.704909	3.073496
422.089771		15.922814	2796.344	
0.50000		5.492274	172.722824	3.073496
430.308230		15.508334	2758.113	
0.75000		5.492274	176.972674	3.073496
438.103563		15.706502	2733.073	
1.00000		5.492274	181.275179	3.073496
448.472011		16.466126	2715.899	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.361080	-104.454487	-2.316689
-234.098879		-13.570516	-978.934245	
0.25000		-5.361080	-100.307702	-2.316689
-224.973855		-13.287128	-1041.587	
0.50000		-5.361080	-96.251548	-2.316689
-216.424627		-13.746556	-1104.157	
0.75000		-5.361080	-92.448573	-2.316689
-208.440587		-15.134183	-1166.868	
1.00000		-5.361080	-89.046342	-2.316689
-201.034677		-17.264001	-1229.546	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.994840	266.173215	4.307598
357.605443		35.045917	4061.188	
0.25000		5.994840	290.710157	4.307598
352.847231		33.152808	4066.706	
0.50000		5.994840	317.806296	4.307598
348.381574		32.300432	4039.336	
0.75000		5.994840	346.465124	4.307598
344.220051		32.413881	3983.009	
1.00000		5.994840	375.473255	4.307598
340.341708		33.438343	3896.296	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.301807	-269.736171	-3.399390
-159.252411		-16.409882	-1330.997	
0.25000		-5.301807	-241.747581	-3.399390
-163.099710		-16.161104	-1414.803	
0.50000		-5.301807	-214.423102	-3.399390
-167.250929		-16.574622	-1498.569	
0.75000		-5.301807	-188.753717	-3.399390
-171.697054		-17.785661	-1582.225	
1.00000		-5.301807	-165.781409	-3.399390
-176.459999		-19.680539	-1666.152	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.764218	280.877167	4.116532
375.276065		37.515090	4407.259	
0.25000		6.764218	301.070815	4.116532
372.025205		35.569824	4387.991	
0.50000		6.764218	323.369509	4.116532
368.985046		34.592324	4348.450	
0.75000		6.764218	346.954215	4.116532
366.153149		34.664957	4296.364	
1.00000		6.764218	370.826421	4.116532
363.524096		35.672588	4227.109	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.915237	-256.576905	-3.562939

```
-276.511216  -18.615915  -1448.381
 0.25000     -4.915237  -233.543854     -3.562939
-279.113120  -17.843572  -1539.658
 0.50000     -4.915237  -211.057315     -3.562939
-281.920545  -17.771457  -1630.917
 0.75000     -4.915237  -189.932790     -3.562939
-284.929478  -18.412481  -1722.069
 1.00000     -4.915237  -171.026838     -3.562939
-288.151597  -19.701384  -1813.438
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    902

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    0.999828   123.465778    2.388231
160.209709   21.036926  1627.815
 0.25000    0.999828   137.196640    2.388231
179.574477   19.674039  1636.262
 0.50000    0.999828   152.349777    2.388231
200.431606   18.816583  1627.929
 0.75000    0.999828   168.380837    2.388231
222.716329   18.489275  1606.325
 1.00000    0.999828   184.609355    2.388231
246.478610   18.516201  1568.510

COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.280555  -144.941038   -1.133079
-199.243251  -3.348741  -497.993823
 0.25000   -4.280555  -129.277954   -1.133079
-176.140522  -3.971351  -528.535039
 0.50000   -4.280555  -113.992368   -1.133079
-154.476681  -4.839972  -559.091444
 0.75000   -4.280555   -99.651382   -1.133079
-134.266730  -5.970822  -589.543945
 1.00000   -4.280555   -86.798687   -1.133079
-115.494062  -7.340916  -620.223004

COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.046340   242.441010    3.817670
137.936973   40.647320  3193.344
 0.25000    3.046340   269.886532    3.817670
137.936973   38.588944  3212.286
 0.50000    3.046340   300.186252    3.817670
137.936973   37.400138  3196.951
 0.75000    3.046340   332.233429    3.817670
137.936973   37.203653  3154.097
 1.00000    3.046340   364.669969    3.817670
137.936973   37.782513  3078.334

COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.233813  -287.406073   -2.736543
-131.151720  -9.181358  -971.932868
 0.25000   -4.233813  -256.120216   -2.736543
-131.151720  -9.209801  -1031.427
 0.50000   -4.233813  -225.565642   -2.736543
-131.151720  -9.698205  -1090.827
 0.75000   -4.233813  -196.861546   -2.736543
-131.151720  -10.486721  -1150.215
 1.00000   -4.233813  -171.166267   -2.736543
-131.151720  -11.614635  -1209.850

COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.720699   277.204944    4.252356
303.852837   38.906713  4092.172
 0.25000    4.720699   302.270146    4.252356
304.585523   36.884826  4091.452
 0.50000    4.720699   329.940194    4.252356
305.363501   35.894327  4062.108
 0.75000    4.720699   359.206043    4.252356
306.182300   36.089859  4010.325
 1.00000    4.720699   388.827487    4.252356
307.036632   37.082842  3931.316

COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.307350  -285.185518   -2.998872
-193.693705  -11.310598  -1310.358
 0.25000   -5.307350  -256.615051   -2.998872
-192.986774  -11.421812  -1391.993
 0.50000   -5.307350  -228.712373   -2.998872
-192.316319  -12.326314  -1473.494
 0.75000   -5.307350  -202.499506   -2.998872
-191.688694  -13.694501  -1555.043
 1.00000   -5.307350  -179.032780   -2.998872
-191.108132  -15.538405  -1636.778
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    903

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.688177   279.433103    3.908929
307.864732   36.539719  4410.497
 0.25000    4.688177   300.626335    3.908929
307.864732   34.605866  4395.357
 0.50000    4.688177   324.023559    3.908929
307.864732   33.647852  4358.386
 0.75000    4.688177   348.770156    3.908929
307.864732   33.695619  4304.486
 1.00000    4.688177   373.817415    3.908929
307.864732   34.412630  4230.013

COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.139791  -259.744393   -2.850373
-296.432711  -13.804965  -1442.920
 0.25000   -5.139791  -235.585682   -2.850373
-296.432711  -13.960643  -1533.845
 0.50000   -5.139791  -211.991663   -2.850373
-296.432711  -14.411850  -1624.657
 0.75000   -5.139791  -189.826568   -2.850373
-296.432711  -15.311468  -1715.478
 1.00000   -5.139791  -169.984861   -2.850373
-296.432711  -16.606187  -1806.497

COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    1.261384   73.722799    1.397365
86.719408    7.319338   1504.193
 0.25000    1.261384   74.254488    1.397365
85.142129    6.338931   1484.045
 0.50000    1.261384   74.844141    1.397365
83.663985    5.884913   1464.922
 0.75000    1.261384   75.467748    1.397365
82.285181    5.833308   1447.830
 1.00000    1.261384   76.098948    1.397365
81.005565    6.011818   1433.034

COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -1.868575  -33.056027   -1.137808
-219.432974  -10.123009  -539.584228
 0.25000   -1.868575  -32.446528   -1.137808
-220.747618   -9.336960  -575.468718
 0.50000   -1.868575  -31.851407   -1.137808
-222.161850   -9.004750  -611.309442
 0.75000   -1.868575  -31.293187   -1.137808
-223.675216   -9.247516  -647.194762
 1.00000   -1.868575  -30.795292   -1.137808
-225.288487   -9.853995  -682.995215

COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.983378   166.496091    2.479540
242.293578   21.947772  2828.967
 0.25000    3.983378   171.313096    2.479540
230.365518   20.362448  2788.598
 0.50000    3.983378   176.651242    2.479540
219.194894   19.662929  2752.380
 0.75000    3.983378   182.296769    2.479540
208.768137   19.683032  2726.875
 1.00000    3.983378   188.011113    2.479540
199.093206   20.317473  2707.470

COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.527483  -112.902044   -2.502336
-389.926665  -15.412043  -951.630284
 0.25000   -2.527483  -107.384269   -2.502336
-399.850727  -13.736737  -1012.977
 0.50000   -2.527483  -101.996844   -2.502336
-410.547168  -12.874893  -1074.216
 0.75000   -2.527483   -96.943613   -2.502336
-421.984446  -12.606020  -1149.733
 1.00000   -2.527483   -92.436023   -2.502336
-434.175704  -12.913518  -1211.727
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    904

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.796999   263.045420    3.984212
159.533409   38.684026  3990.400
 0.25000    3.796999   287.875748    3.984212
163.597167   36.358663  3997.703
 0.50000    3.796999   315.277801    3.984212
167.937665   35.120893  3971.813
 0.75000    3.796999   344.258677    3.984212
172.549368   34.903149  3916.406
 1.00000    3.796999   373.593428    3.984212
177.466433   35.519973  3830.086

COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.879232  -270.641499   -3.225683
-330.636000  -16.448066  -1289.800
 0.25000   -3.879232  -242.348146   -3.225683
-325.963222  -15.607868  -1371.440
 0.50000   -3.879232  -214.771428   -3.225683
-321.574527  -15.380834  -1453.032
 0.75000   -3.879232  -188.757092   -3.225683
-317.479842  -15.667368  -1534.479
 1.00000   -3.879232  -165.511981   -3.225683
-313.671656  -16.466625  -1616.315

COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.055423   279.973629    4.552723
289.619393   38.716157  4396.164
 0.25000    4.055423   300.382474    4.552723
292.320242   36.395702  4377.902
 0.50000    4.055423   322.907024    4.552723
295.217484   35.366251  4339.004
 0.75000    4.055423   346.729742    4.552723
298.306809   35.318816  4286.613
 1.00000    4.055423   370.842874    4.552723
301.582295   36.026342  4216.399

COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.975609  -256.997206   -3.148009
-354.650367  -15.648737  -1450.505
 0.25000   -5.975609  -233.739990   -3.148009
-351.554771  -15.513077  -1542.028
 0.50000   -5.975609  -211.026317   -3.148009
-348.647887  -16.251676  -1654.108
 0.75000   -5.975609  -189.688068   -3.148009
-345.933878  -17.609668  -1746.871
 1.00000   -5.975609  -170.581648   -3.148009
-343.417263  -19.499915  -1839.956

COMB     DB ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.126811   283.892474    4.328461
399.617019   40.313598  4298.986
 0.25000    6.126811   315.960001    4.328461
411.074632   37.628474  4246.917
 0.50000    6.126811   351.595596    4.328461
422.544681   36.052658  4183.259
 0.75000    6.126811   389.761427    4.328461
434.098711   35.816824  4113.145
 1.00000    6.126811   429.262702    4.328461
449.640048   36.765223  4026.026

COMB     DB ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.445986  -358.720421   -3.331189
-383.181141  -13.495521  -1100.154
 0.25000   -5.445986  -315.600693   -3.331189
-397.350804  -12.833206  -1169.640
 0.50000   -5.445986  -274.346124   -3.331189
-411.504726  -12.675392  -1239.134
 0.75000   -5.445986  -237.596924   -3.331189
-425.731796  -13.048714  -1308.627
 1.00000   -5.445986  -206.787566   -3.331189
-444.994235  -14.123897  -1378.120
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    905

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.764218   280.877167    4.552723
414.450382   40.647320  4410.497
 0.25000    6.764218   302.270146    4.552723
422.089771   38.588944  4395.357
 0.50000    6.764218   329.940194    4.552723
430.308230   37.400138  4358.386
 0.75000    6.764218   359.206043    4.552723
439.103563   37.203653  4304.486
 1.00000    6.764218   388.827487    4.552723
448.472011   37.782513  4230.013

COMB     DL ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.975609  -287.406073   -3.562939
-389.926665  -18.615915  -1450.305
 0.25000   -5.975609  -256.615051   -3.562939
-399.860727  -17.843572  -1542.028
 0.50000   -5.975609  -228.712373   -3.562939
-410.547168  -17.771457  -1654.108
 0.75000   -5.975609  -202.499506   -3.562939
-421.984446  -18.412481  -1746.871
 1.00000   -5.975609  -179.032780   -3.562939
-434.175704  -19.701384  -1839.956

COMB     CAR ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.764218   283.892474    4.552723
414.450382   40.647320  4410.497
 0.25000    6.764218   315.960001    4.552723
422.089771   38.588944  4395.357
 0.50000    6.764218   351.595596    4.552723
430.308230   37.400138  4358.386
 0.75000    6.764218   389.761427    4.552723
439.103563   37.203653  4304.486
 1.00000    6.764218   429.262702    4.552723
449.640048   37.782513  4230.013

COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.975609  -358.720421   -3.562939
-389.926665  -18.615915  -1450.305
 0.25000   -5.975609  -315.600693   -3.562939
-399.860727  -17.843572  -1542.028
 0.50000   -5.975609  -274.346124   -3.562939
-411.504726  -17.771457  -1654.108
 0.75000   -5.975609  -237.596924   -3.562939
-425.731796  -18.412481  -1746.871
 1.00000   -5.975609  -206.787566   -3.562939
-444.994235  -19.701384  -1839.956
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    906

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      59 ========== LENGTH
=   4.958370

COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.479128   82.961620    0.335559
348.699253    2.784899   1218.293
 0.25000    3.479128   83.507797    0.335559
349.962670    3.920078   1141.237
 0.50000    3.479128   84.113758    0.335559
351.227632    5.431021   1069.487
 0.75000    3.479128   84.762009    0.335559
352.501124    7.053853   1004.846
 1.00000    3.479128   85.434769    0.335559
354.217171    8.640642   949.178104

COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -1.511883  -11.797743   -2.519015
-11.243919  -11.059370  -520.544029
 0.25000   -1.511883  -11.130101   -2.519015
-9.533250   -8.735888  -547.870296
 0.50000   -1.511883  -10.494773   -2.519015
-8.272747   -6.994542  -575.195565
 0.75000   -1.511883   -9.909933   -2.519015
-7.023171   -5.741020  -602.522834
 1.00000   -1.511883   -9.392415   -2.519015
-5.776523   -4.950350  -629.849103

COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.114811   193.520806    3.399343
606.150000   12.099110  2492.551
 0.25000    4.114811   198.981558    3.399343
617.523207   10.448781  2343.841
 0.50000    4.114811   205.047553    3.399343
628.912487   10.097806  2211.203
 0.75000    4.114811   211.522533    3.399343
640.383109    9.951885  2106.564
 1.00000    4.114811   218.247056    3.399343
655.831445   10.514237  2023.032

COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.540688  -85.563469   -2.552749
-143.415773  -13.446883  -931.279491
 0.25000   -5.540688  -78.892285   -2.552749
-128.017702  -14.419851  -978.827864
 0.50000   -5.540688  -72.537821   -2.552749
-116.671505  -16.144126  -1026.392
 0.75000   -5.540688  -66.689974   -2.552749
-105.424893  -18.654721  -1073.957
 1.00000   -5.540688  -61.515354   -2.552749
-94.206073  -21.872085  -1121.523

COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.069487   323.323759    4.900923
487.934753   28.741337  3672.207
 0.25000    5.069487   355.052533    4.900923
485.447824   25.737888  3565.057
 0.50000    5.069487   390.263681    4.900923
483.628941   24.452690  3423.585
 0.75000    5.069487   427.914541    4.900923
481.752095   24.090857  3258.139
 1.00000    5.069487   466.852002    4.900923
479.793841   25.272390  3064.012

COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.150364  -286.001871   -3.656177
-45.424512  -14.761607  -1252.170
 0.25000   -5.150364  -247.370938   -3.656177
-45.682155  -15.442015  -1314.849
 0.50000   -5.150364  -210.476930   -3.656177
-47.055952  -16.753340  -1377.539
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    907

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000   -5.150364  -176.502251   -3.656177
-48.432662  -18.758873  -1440.233
 1.00000   -5.150364  -146.444878   -3.656177
-49.820163  -21.468518  -1502.927

COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.373355   341.561940    4.518338
451.974541   29.750974  4018.867
 0.25000    6.373355   367.655154    4.518338
451.418584   27.177072  3855.629
 0.50000    6.373355   396.610378    4.518338
450.910222   26.502373  3685.986
 0.75000    6.373355   427.572376    4.518338
450.456115   27.092704  3516.320
 1.00000    6.373355   459.592875    4.518338
450.379312   29.320247  3337.324

COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.698876  -261.248294   -4.495961
-252.734605  -15.292359  -1378.260
 0.25000   -4.698876  -229.479807   -4.495961
-252.735131  -15.852651  -1447.336
 0.50000   -4.698876  -199.140093   -4.495961
-252.734940  -16.958981  -1516.422
 0.75000   -4.698876  -171.201557   -4.495961
-252.735005  -18.651285  -1585.511
 1.00000   -4.698876  -146.482632   -4.495961
-252.735005  -20.937144  -1654.600

COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    1.234409   155.141897    3.536533
218.342372   17.868038  1597.676
 0.25000    1.234409   172.464928    3.536533
239.631230   15.267728  1557.870
 0.50000    1.234409   191.686917    3.536533
260.959665   13.078643  1505.957
 0.75000    1.234409   212.246119    3.536533
282.447209   11.303062  1445.886
 1.00000    1.234409   233.547955    3.536533
311.332453    9.976592  1370.811

COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.559183  -163.711325   -0.304104
-189.386499  -4.288378  -477.474101
 0.25000   -4.559183  -142.574159   -0.304104
-160.623176  -7.620758  -500.664885
 0.50000   -4.559183  -122.426357   -0.304104
-139.426514  -11.240667  -523.855684
 0.75000   -4.559183  -103.876650   -0.304104
-118.402039  -14.969477  -547.046483
 1.00000   -4.559183   -87.463202   -0.304104
-97.508239  -18.763940  -570.237281

COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.808015   302.356461    5.343459
161.890145   35.934845  3106.351
 0.25000    3.808015   337.001694    5.343459
161.890145   32.328728  3034.446
 0.50000    3.808015   375.446302    5.343459
161.890145   29.833892  2936.369
 0.75000    3.808015   416.555842    5.343459
161.890145   28.738344  2818.616
 1.00000    3.808015   459.070357    5.343459
161.890145   28.973258  2668.587

COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.527996  -324.312094   -2.773869
-144.741354  -7.565019  -921.716743
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    908

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000   -4.527996  -282.131863   -2.773869
-144.741354  -10.587336  -966.333789
 0.50000   -4.527996  -241.848811   -2.773869
-144.741354  -13.744237  -1016.951
 0.75000   -4.527996  -204.754052   -2.773869
-144.741354  -16.980156  -1055.568
 1.00000   -4.527996  -171.933441   -2.773869
-144.741354  -20.265494  -1100.185

COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.901863   340.763907    6.044919
417.231874   33.432171  3814.494
 0.25000    4.901863   372.293961    6.044919
417.674556   30.132338  3686.085
 0.50000    4.901863   407.279885    6.044919
418.188804   27.958579  3541.592
 0.75000    4.901863   444.691253    6.044919
418.753350   27.444587  3387.119
 1.00000    4.901863   483.382241    6.044919
419.245275   28.403099  3209.187

COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.117348  -303.686664   -3.218097
-144.672802  -8.900147  -1243.373
 0.25000   -5.117348  -265.300102   -3.218097
-144.672802  -12.922252  -1304.840
 0.50000   -5.117348  -228.640493   -3.218097
-144.672802  -17.128303  -1366.307
 0.75000   -5.117348  -194.882877   -3.218097
-144.672802  -21.541846  -1427.774
 1.00000   -5.117348  -165.013133   -3.218097
-144.672802  -25.996709  -1489.241

COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.705929   340.987242    5.133992
358.621538   29.623585  4026.047
 0.25000    4.705929   367.550141    5.133992
358.621538   26.712218  3866.004
 0.50000    4.705929   397.026063    5.133992
358.621538   24.746184  3699.002
 0.75000    4.705929   428.544990    5.133992
358.621538   24.550124  3530.110
 1.00000    4.705929   461.141588    5.133992
358.621538   25.781170  3345.965

COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.722005  -263.080463   -3.154830
```

```
-332.035636  -10.809079   -1373.407
 0.25000     -4.722005  -230.740396     -3.154830
-332.035636  -14.238479   -1442.227
 0.50000     -4.722005  -199.854917     -3.154830
-332.035636  -17.820923   -1511.048
 0.75000     -4.722005  -171.413939     -3.154830
-332.035636  -21.577557   -1579.869
 1.00000     -4.722005  -146.250000     -3.154830
-332.035636  -25.371492   -1648.689

COMB DB-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     1.191669    85.916560    1.351770
 16.327993    4.357391     1254.938
 0.25000     1.191669    86.565471    1.351770
 14.253116    4.055653     1175.743
 0.50000     1.191669    87.288671    1.351770
 12.724556    3.823374     1102.134
 0.75000     1.191669    88.061648    1.351770
 11.206407    3.675798     1037.324
 1.00000     1.191669    88.858254    1.351770
  9.688382    3.644440    981.782814
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                909

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -1.100155   -13.870580   -0.851442
-334.673091   -6.935036  -517.578985
 0.25000    -1.100155   -13.080452   -0.851442
-336.199033   -6.819268  -545.201477
 0.50000    -1.100155   -12.323136   -0.851442
-337.723159   -7.063021  -572.823969
 0.75000    -1.100155   -11.625515   -0.851442
-339.256063   -7.677637  -600.446461
 1.00000    -1.100155   -11.011251   -0.851442
-341.332951   -8.664626  -628.068954

COMB DB-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     4.189391   197.717280    2.324868
 168.319810   16.628371    2519.767
 0.25000     4.189391   204.661369    2.324868
 149.103490   15.833170    2376.403
 0.50000     4.189391   212.395892    2.324868
 134.945665   15.655104    2247.215
 0.75000     4.189391   220.663291    2.324868
 120.883686   16.334833    2141.435
 1.00000     4.189391   229.187455    2.324868
 106.823686   17.794929    2053.689

COMB DB-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -1.926715   -97.333439   -3.011512
-567.684964   -8.789632  -913.261851
 0.25000    -1.926715   -88.878298   -3.011512
-581.814684   -9.098583  -960.227580
 0.50000    -1.926715   -80.778217   -3.011512
-595.924150   -9.424322   -1007.193
 0.75000    -1.926715   -73.316983   -3.011512
-610.108698   -9.761316   -1054.159
 1.00000    -1.926715   -66.742970   -3.011512
-629.339999   -10.102398   -1101.125

COMB DB-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     4.173980   324.236746    4.458243
 71.092223    32.169646    3680.037
 0.25000     4.173980   356.247336    4.458243
 72.121675    29.364429    3567.063
 0.50000     4.173980   391.765168    4.458243
 73.223786    27.521440    3427.356
 0.75000     4.173980   429.745688    4.458243
 74.380585    26.908627    3263.039
 1.00000     4.173980   469.025629    4.458243
 75.668646    27.492611    3069.710

COMB DB-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -3.148479  -289.534476   -2.994990
-438.631582   -31.27183    -3211.614
 0.25000    -3.148479  -250.563551   -2.994990
-437.730947   -12.183791   -1293.627
 0.50000    -3.148479  -213.346150   -2.994990
-437.064716   -13.594433   -1355.639
 0.75000    -3.148479  -179.075231   -2.994990
-436.401920   -15.080469   -1417.651
 1.00000    -3.148479  -148.750082   -2.994990
-436.044886   -16.605683   -1479.663

COMB DB-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     4.197040   341.237483    6.121696
285.017074   31.456684    4016.155
 0.25000     4.197040   367.451298    6.121696
285.017073   28.335913    3853.903
 0.50000     4.197040   396.539569    6.121696
285.017073   26.064855    3684.908
 0.75000     4.197040   427.644058    6.121696
285.017073   24.895585    3515.033
 1.00000     4.197040   459.812120    6.121696
285.017073   24.937174    3334.962
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                910

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.758014  -261.433506   -2.647605
-407.033339   -12.582013   -1371.284
 0.25000    -5.758014  -229.518592   -2.647605
-407.033339   -16.553799   -1440.332
 0.50000    -5.758014  -199.039205   -2.647605
-407.033339   -20.690234   -1509.380
 0.75000    -5.758014  -170.972251   -2.647605
-407.033339   -24.900744   -1578.428
 1.00000    -5.758014  -146.138974   -2.647605
-407.033339   -29.176697   -1647.479

COMB DL-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     4.987712   102.973233    0.387564
377.209674    3.405550    1413.446
 0.25000     4.987715   103.420812    0.387564
378.310620    5.480414    1345.177
 0.50000     4.987712   103.912522    0.387564
379.491988    8.035669    1279.609
 0.75000     4.987712   104.430549    0.387564
380.753637    10.98241    1215.341
 1.00000     4.987712   104.95422     0.387564
382.095809    14.303084    1153.255

COMB DL-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -1.851637   -15.849097   -3.617067
-11.582407   -11.020986  -690.769089
 0.25000    -1.851637   -15.369768   -3.617067
-10.341882    -8.518019  -726.941373
 0.50000    -1.851637   -14.901671   -3.617067
 -9.181548    -6.576327  -763.071105
 0.75000    -1.851637   -14.464833   -3.617067
 -8.101275    -5.665874  -799.275663
 1.00000    -1.851637   -14.074334   -3.617067
 -7.101195    -5.442165  -835.433491

COMB DL-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     5.681451   216.153572    4.570445
619.090539   13.336658    2714.918
 0.25000     5.681451   219.875672    4.570445
626.953532   12.698579    2590.249
 0.50000     5.681451   223.965807    4.570445
635.391898   13.249142    2469.666
 0.75000     5.681451   228.272863    4.570445
644.403085   14.563060    2363.946
 1.00000     5.681451   232.626853    4.570445
653.987947   16.820437    2266.615

COMB DL-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.553035   -76.765028   -3.419729
-113.139725   -15.594663   -1230.046
 0.25000    -5.553035   -72.778576   -3.419729
-104.033413   -17.053402   -1292.698
 0.50000    -5.553035   -68.885533   -3.419729
-96.017322   -19.325950   -1355.381
 0.75000    -5.553035   -65.254406   -3.419729
-88.312569   -22.719489   -1418.070
 1.00000    -5.553035   -62.004623   -3.419729
-81.178503   -26.988112   -1480.792

COMB DL-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     6.409579   331.279773    5.649100
531.909011   60.341215    3895.440
 0.25000     6.409579   356.364438    5.649100
526.961578   28.763005    3794.610
 0.50000     6.409579   383.937343    5.649100
522.331899   28.606152    3660.191
 0.75000     6.409579   412.973576    5.649100
518.007822   29.626478    3498.714
 1.00000     6.409579   442.329448    5.649100
513.988346   31.992661    3307.553
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                911

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.744905  -230.150759   -4.251772
-57.825455   -18.506330   -1666.583
 0.25000    -5.744905  -203.279063   -4.251772
-61.645588   -19.746106   -1750.074
 0.50000    -5.744905  -177.016598   -4.251772
-65.773292   -21.745186   -1833.549
 0.75000    -5.744905  -152.510667   -4.251772
-70.210637   -24.785794   -1917.051
 1.00000    -5.744905  -130.596073   -4.251772
-74.965010   -28.722188   -2000.636

COMB DL-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     7.114279   352.226334    5.126283
479.850701   33.581676    4226.749
 0.25000     7.114279   372.870818    5.126283
476.439313   32.776328    4092.641
 0.50000     7.114279   395.561960    5.126283
473.244522   33.478481    3934.485
 0.75000     7.114279   419.457363    5.126283
470.262300   35.508034    3765.801
 1.00000     7.114279   443.615574    5.126283
467.488058   38.812440    3581.813

COMB DL-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.336987  -213.796947   -5.108313
-251.527811   -19.839830    1813.649
 0.25000    -5.336987  -191.683023   -5.108313
-253.790120   -20.532470    1904.290
 0.50000    -5.336987  -170.070388   -5.108313
-256.561521   -22.000683    1994.872
 0.75000    -5.336987  -149.901457   -5.108313
-259.547557   -24.417579    2085.501
 1.00000    -5.336987  -131.867763   -5.108313
-262.753700   -27.633014    2176.177

COMB DL-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     1.265437   145.679138    4.894319
199.302141   17.427380    1568.257
 0.25000     1.265437   159.717654    4.894319
219.259713   15.018725    1539.366
 0.50000     1.265437   175.144607    4.894319
240.677268   12.946690    1492.460
 0.75000     1.265437   191.390383    4.894319
263.549795   11.385331    1433.943
 1.00000     1.265437   207.818420    4.894319
287.857023   10.328127    1359.730

COMB DL-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -4.342275  -129.575711   -0.321107
-162.389632   -6.784301   -620.308875
 0.25000    -4.342275  -114.537840   -0.321107
-140.045780   -10.907218   -650.667522
 0.50000    -4.342275   -99.853453   -0.321107
-119.137788   -15.127958   -680.977788
 0.75000    -4.342275   -86.153714   -0.321107
-99.668869   -19.852840   -711.300751
 1.00000    -4.342275   -73.885301   -0.321107
-81.662092   -24.711742   -741.660448

COMB DL-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     3.489491   285.518622    5.962422
149.933619   36.754965    3078.290
 0.25000     3.489491   313.577270    5.962422
149.933619   34.444237    3024.363
 0.50000     3.489491   344.410820    5.962422
149.933619   32.876057    2933.871
 0.75000     3.489491   376.880844    5.962422
149.933619   32.376814    2819.172
 1.00000     3.489491   409.708075    5.962422
149.933619   32.833619    2672.410
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                912

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -4.615769  -257.480519   -2.645697
-131.210845   -11.822033   -1209.865
 0.25000    -4.615769  -227.432248   -2.645697
-131.210845   -15.196303   -1268.641
 0.50000    -4.615769  -198.080555   -2.645697
-131.210845   -18.804338   -1327.344
 0.75000    -4.615769  -170.659221   -2.645697
-131.210845   -22.697744   -1386.071
 1.00000    -4.615769  -146.148713   -2.645697
-131.210845   -26.952426   -1444.870

COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     5.132654   338.949707    6.497399
413.576849   34.649545    3930.817
 0.25000     5.132654   364.574963    6.497399
414.463226   32.828092    3829.979
 0.50000     5.132654   392.737461    6.497399
415.387360   31.806460    3695.251
 0.75000     5.132654   422.384836    6.497399
416.335552   31.950352    3540.690
 1.00000     5.132654   452.363242    6.497399
417.276282   33.224127    3360.790

COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.664802  -245.767352   -3.200151
-129.381700   -14.611359   -1637.044
 0.25000    -5.664802  -218.303334   -3.200151
-128.997400   -15.695584   -1745.851
 0.50000    -5.664802  -191.499077   -3.200151
-128.644594   -23.133677   -1827.861
 0.75000    -5.664802  -166.457626   -3.200151
-128.642391   -27.893325   -1956.110
 1.00000    -5.664802  -144.072723   -3.200151
-128.642391   -33.007710   -2040.428

COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     5.054621   349.968124    5.604116
353.210942   33.068301    4230.030
 0.25000     5.054621   371.634807    5.604116
353.210942   31.443208    4102.888
 0.50000     5.054621   395.444250    5.604116
353.210942   30.532401    3946.627
 0.75000     5.054621   420.517366    5.604116
353.210942   30.806276    3775.480
 1.00000     5.054621   445.866315    5.604116
353.210942   32.096649    3586.190

COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.481704  -216.508410   -3.138724
-325.671561   -17.318683   -1806.508
 0.25000    -5.481704  -193.305354   -3.138724
-325.671561   -20.500577   -1919.961
 0.50000    -5.481704  -170.640190   -3.138724
-325.671561   -24.060184   -2011.096
 0.75000    -5.481704  -149.465636   -3.138724
-325.671561   -27.941877   -2140.728
 1.00000    -5.481704  -130.538800   -3.138724
-325.671561   -32.147928   -2233.787

COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     1.437248   104.966219    1.478325
16.431171    7.481154    1433.788
 0.25000     1.437248   105.509764    1.478325
14.888169    6.765571    1365.146
 0.50000     1.437248   106.109427    1.478325
13.444333    6.269208    1298.137
 0.75000     1.437248   106.740866    1.478325
12.099502    5.936308    1232.871
 1.00000     1.437248   107.379383    1.478325
10.853001    5.708390    1170.363
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                913

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -2.022600   -17.503760   -0.766144
-361.596645   -1.087843   -682.619992
 0.25000    -2.022600   -16.918701   -0.766144
-362.930781   -11.933927   -718.954990
 0.50000    -2.022600   -16.347213   -0.766144
-364.376519   -12.217043   -755.272562
 0.75000    -2.022600   -15.814040   -0.766144
-365.921989   -12.934440   -791.528039
 1.00000    -2.022600   -15.339358   -0.766144
-367.566921   -13.906140   -828.115295

COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     4.215308   216.763366    2.342432
134.144929   22.066996    2708.526
 0.25000     4.215308   221.687509    2.342432
122.469183   22.177832    2589.489
 0.50000     4.215308   227.116197    2.342432
111.544560   22.787137    2471.346
 0.75000     4.215308   232.833736    2.342432
101.369571   23.559723    2365.919
 1.00000     4.215308   238.615375    2.342432
 91.939474   25.685770    2267.202

COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -2.839840   -85.121981   -3.313583
-578.131615   -16.096782   -1211.244
 0.25000    -2.839840   -79.825415   -3.313583
-588.303254   -15.627281   -1273.039
 0.50000    -2.839840   -74.651911   -3.313583
-599.224408   -15.152987   -1334.869
 0.75000    -2.839840   -69.825376   -3.313583
-610.896288   -15.922647   -1396.628
 1.00000    -2.839840   -65.524369   -3.313583
-623.326937   -16.648039   -1458.486

COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     4.291784   326.789247    4.818427
 77.121295   36.475289    3830.906
 0.25000     4.291784   352.173009    4.818427
 81.405842   34.415145    3794.657
 0.50000     4.291784   380.056640    4.818427
 85.976669   33.081250    3603.331
 0.75000     4.291784   409.426516    4.818427
 90.828247   32.698307    3444.568
 1.00000     4.291784   439.113309    4.818427
 95.947722   33.170438    3255.907

COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -4.361666  -231.514874   -3.015532
-482.801521   -19.179824   -1615.915
 0.25000    -4.361666  -204.316915   -3.015532
-478.548937   -20.261081   -1697.306
 0.50000    -4.361666  -177.772339   -3.015532
-474.573087   -21.791329   -1778.602
 0.75000    -4.361666  -152.973423   -3.015532
-470.883959   -23.817152   -1859.865
 1.00000    -4.361666  -130.799202   -3.015532
-467.483829   -26.328654   -1941.263

COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     4.524601   351.314520    6.862178
288.709357   35.508480    4216.754
 0.25000     4.524601   372.178718    6.862178
291.591072   33.199413    4084.345
 0.50000     4.524601   395.100589    6.862178
294.662402   31.600535    3926.528
 0.75000     4.524601   419.240929    6.862178
297.915042   30.907084    3757.304
 1.00000     4.524601   443.643229    6.862178
301.335146   31.028288    3572.304
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                914

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -6.361174  -213.964919   -2.734081
-433.560025   -20.774976   -1839.804
 0.25000    -6.361174  -191.608181   -2.734081
-430.780438   -24.738592   -1932.178
 0.50000    -6.361174  -169.788522   -2.734081
-428.201313   -29.152765   -2024.523
 0.75000    -6.361174  -149.403810   -2.734081
-425.801017   -34.046038   -2119.597
 1.00000    -6.361174  -131.177747   -2.734081
-423.594454   -39.412348   -2226.322

COMB      DB -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     6.373355   341.561940    6.121696
606.150000   35.934845    4026.047
 0.25000     6.373355   372.293961    6.121696
617.523207   32.328728    3866.004
 0.50000     6.373355   407.279885    6.121696
628.912487   29.833892    3699.002
 0.75000     6.373355   444.691253    6.121696
640.383109   28.738344    3530.110
 1.00000     6.373355   483.382241    6.121696
655.831445   29.320247    3345.965

COMB      DB -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.758014  -324.312094   -4.495961
-567.684964   -15.292359   -1378.260
 0.25000    -5.758014  -282.131863   -4.495961
-581.814684   -16.583799   -1447.336
 0.50000    -5.758014  -241.848811   -4.495961
-595.924150   -20.690234   -1516.422
 0.75000    -5.758014  -204.754052   -4.495961
-610.108698   -24.900744   -1585.511
 1.00000    -5.758014  -171.933441   -4.495961
-629.339999   -29.176697   -1654.600

COMB      DL -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     7.114279   352.226334    6.862178
619.090539   36.754965    4230.030
 0.25000     7.114279   372.870818    6.862178
626.953532   34.444237    4102.888
 0.50000     7.114279   395.561960    6.862178
635.391898   33.478481    3946.627
 0.75000     7.114279   422.384836    6.862178
644.403085   35.508034    3775.480
 1.00000     7.114279   452.363242    6.862178
653.987947   38.812440    3586.190

COMB      DL -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -6.361174  -257.480519   -5.108313
-578.131615   -20.774976   -1839.804
 0.25000    -6.361174  -227.432248   -5.108313
-588.303254   -24.738592   -1932.178
 0.50000    -6.361174  -198.080555   -5.108313
-599.224408   -29.152765   -2024.523
 0.75000    -6.361174  -170.659221   -5.108313
-610.896288   -34.046038   -2140.728
 1.00000    -6.361174  -146.148713   -5.108313
-623.326937   -39.412348   -2233.787

COMB      CAR -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     7.114279   352.226334    6.862178
619.090539   36.754965    4230.030
 0.25000     7.114279   372.870818    6.862178
626.953532   34.444237    4102.888
 0.50000     7.114279   407.279885    6.862178
635.391898   33.478481    3946.627
 0.75000     7.114279   444.691253    6.862178
644.403085   35.508034    3775.480
 1.00000     7.114279   483.382241    6.862178
655.831445   38.812440    3586.190
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                915

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -6.361174  -324.312094   -5.108313
-578.131615   -20.774976   -1839.804
 0.25000    -6.361174  -282.131863   -5.108313
-588.303254   -24.738592   -1932.178
 0.50000    -6.361174  -241.848811   -5.108313
-599.224408   -29.152765   -2024.523
 0.75000    -6.361174  -204.754052   -5.108313
-610.896288   -34.046038   -2140.728
 1.00000    -6.361174  -171.933441   -5.108313
-629.339999   -39.412348   -2233.787

COMB    DESIGN -------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     7.114279   352.226334    6.862178
619.090539   36.754965    4230.030
 0.25000     7.114279   372.870818    6.862178
626.953532   34.444237    4102.888
 0.50000     7.114279   407.279885    6.862178
635.391898   33.478481    3946.627
 0.75000     7.114279   444.691253    6.862178
644.403085   35.508034    3775.480
 1.00000     7.114279   483.382241    6.862178
655.831445   38.812440    3586.190

COMB    DESIGN -------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -6.361174  -324.312094   -5.108313
-578.131615   -20.774976   -1839.804
 0.25000    -6.361174  -282.131863   -5.108313
-588.303254   -24.738592   -1932.178
 0.50000    -6.361174  -241.848811   -5.108313
-599.224408   -29.152765   -2024.523
 0.75000    -6.361174  -204.754052   -5.108313
-610.896288   -34.046038   -2140.728
 1.00000    -6.361174  -171.933441   -5.108313
-629.339999   -39.412348   -2233.787
```

```
 ELEM          60 ================== LENGTH =     4.957854

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    3.426837  104.717924    0.133047
450.983632    8.820808  947.696710
  0.25000    3.426837  105.256405    0.133047
452.236184   10.911223  840.588460
  0.50000    3.426837  105.852417    0.133047
453.487190   13.059419  738.115092
  0.75000    3.426837  106.488432    0.133047
454.743156   15.395689  643.602387
  1.00000    3.426837  107.146392    0.133047
456.439781   17.742001  558.686601

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -1.689720  -10.389181   -2.934631
-41.667021   -5.997082  -629.911119
  0.25000   -1.689720   -9.739270   -2.934631
-39.976269   -3.429753  -655.023742
  0.50000   -1.689720   -9.122460   -2.934631
-38.736506   -1.815613  -680.155875
  0.75000   -1.689720   -8.555578   -2.934631
-37.515148   -1.684421  -705.314612
  1.00000   -1.689720   -8.054538   -2.934631
-36.304071   -1.702133  -730.489748

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    4.183460  234.775608    3.613827
752.870806   10.463259  2020.771
  0.25000    4.183460  240.159763    3.613827
764.142707   10.022462  1812.945
  0.50000    4.183460  246.119229    3.613827
775.402418   11.506761  1622.439
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD          >
                                   916

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
  0.75000    4.183460  252.478407    3.613827
786.706978   13.584485  1461.438
  1.00000    4.183460  259.054478    3.613827
801.973520   15.662765  1326.896

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -5.666189  -69.264170   -2.872896
-152.972708  -23.064861  -1121.598
  0.25000   -5.666189  -62.768515   -2.872896
-137.763162  -25.207808  -1168.601
  0.50000   -5.666189  -56.601811   -2.872896
-126.613897  -28.025514  -1215.651
  0.75000   -5.666189  -50.934121   -2.872896
-115.631544  -31.686142  -1262.702
  1.00000   -5.666189  -45.924828   -2.872896
-104.742804  -35.875307  -1309.781

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    5.393705  381.248621    5.371987
613.732687   24.461294  3062.209
  0.25000    5.393705  412.518651    5.371987
610.831930   22.329109  2863.873
  0.50000    5.393705  447.136808    5.371987
608.502794   22.032456  2641.754
  0.75000    5.393705  484.061851    5.371987
606.811418   22.826571  2399.919
  1.00000    5.393705  522.111810    5.371987
604.894332   24.425692  2136.763

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -5.610253  -252.721936   -3.256745
-63.695316  -22.245682  -1503.011
  0.25000   -5.610253  -215.135663   -3.256745
-63.695316  -24.623641  -1567.637
  0.50000   -5.610253  -179.352603   -3.256745
-63.695316  -27.661664  -1632.304
  0.75000   -5.610253  -146.456473   -3.256745
-64.147600  -31.457597  -1696.971
  1.00000   -5.610253  -117.390458   -3.256745
-65.753314  -35.723249  -1761.665

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    6.606763  405.141757    4.912719
545.559152   28.514971  3336.575
  0.25000    6.606763  430.857982    4.912719
544.888532   28.417843  3079.657
  0.50000    6.606763  459.325735    4.912719
544.215037   30.324569  2820.175
  0.75000    6.606763  489.691060    4.912719
544.055415   33.044164  2566.605
  1.00000    6.606763  520.981995    4.912719
544.055415   36.425294  2311.674

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -5.121213  -223.205093   -4.409817
-311.990323  -22.196799  -1654.663
  0.25000   -5.121213  -192.295425   -4.409817
-311.990323  -24.320513  -1725.815
  0.50000   -5.121213  -162.868945   -4.409817
-311.990323  -26.985263  -1797.009
  0.75000   -5.121213  -135.816951   -4.409817
-311.990323  -30.281672  -1868.203
  1.00000   -5.121213  -111.913046   -4.409817
-311.990323  -33.972191  -1939.419

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    1.474915  178.506342    4.318015
250.330140    8.979300  1370.209
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD          >
                                   917

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
  0.25000    1.474915  195.583433    4.318015
271.364295    5.371888  1296.068
  0.50000    1.474915  214.486108    4.318015
292.377885    3.290705  1211.463
  0.75000    1.474915  234.653465    4.318015
313.488586    2.191868  1120.916
  1.00000    1.474915  255.478920    4.318015
341.942577    2.351850  1019.662

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -4.488774  -143.835555   -0.139670
-164.435222  -18.685556  -570.249699
  0.25000   -4.488774  -123.264388   -0.139670
-136.144821  -23.546315  -596.028146
  0.50000   -4.488774  -103.712772   -0.139670
-115.450040  -28.408946  -621.806594
  0.75000   -4.488774   -85.741497   -0.139670
-95.083159  -33.271273  -647.585041
  1.00000   -4.488774   -69.859271   -0.139670
-74.905504   -38.133601  -673.363489

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    4.197825  347.566672    6.189863
173.327281   27.424070  2668.620
  0.25000    4.197825  381.711457    6.189863
173.327281   24.399227  2530.253
  0.50000    4.197825  419.508894    6.189863
173.327281   23.905291  2369.181
  0.75000    4.197825  459.825983    6.189863
173.327281   24.548434  2192.866
  1.00000    4.197825  501.372229    6.189863
173.327281   26.070487  1992.492

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -4.898280  -285.925389   -2.231160
-148.793826  -20.136084  -1100.215
  0.25000   -4.898280  -244.885340   -2.231160
-148.793826  -24.956720  -1149.750
  0.50000   -4.898280  -205.814701   -2.231160
-148.793826  -29.795084  -1199.285
  0.75000   -4.898280  -169.896892   -2.231160
-148.793826  -34.633448  -1248.820
  1.00000   -4.898280  -138.158332   -2.231160
-148.793826  -39.483998  -1298.354

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    5.225172  399.393439    7.020169
500.019718   26.031365  3265.145
  0.25000    5.225172  430.468323    7.020169
500.169395   23.873642  2993.403
  0.50000    5.225172  464.865467    7.020169
500.381048   23.878186  2765.354
  0.75000    5.225172  501.556142    7.020169
500.625359   24.986240  2533.014
  1.00000    5.225172  539.365082    7.020169
500.709937   26.930383  2289.366

 COMB DB-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -5.438548  -262.271129   -2.675797
-159.522790  -25.944334  -1489.304
  0.25000   -5.438548  -224.921938   -2.675797
-159.522790  -32.073942  -1554.586
  0.50000   -5.438548  -189.365319   -2.675797
-159.522790  -38.212586  -1619.867
  0.75000   -5.438548  -156.673076   -2.675797
-159.522790  -44.357512  -1685.160
  1.00000   -5.438548  -127.793128   -2.675797
-159.522790  -50.509641  -1750.465
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD          >
                                   918

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    4.968644  404.737261    6.047127
428.968020   23.823454  3346.057
  0.25000    4.968644  430.916459    6.047127
428.968020   22.591517  3091.915
  0.50000    4.968644  459.896188    6.047127
428.968020   23.186790  2832.786
  0.75000    4.968644  490.807764    6.047127
428.968020   24.771552  2578.164
  1.00000    4.968644  522.661748    6.047127
428.968020   27.061293  2322.190

 COMB DB-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -5.058764  -222.534087   -2.816579
-400.365004  -26.131847  -1648.713
  0.25000   -5.058764  -191.068217   -2.816579
-400.365004  -31.351096  -1720.053
  0.50000   -5.058764  -161.112302   -2.816579
-400.365004  -36.584066  -1791.395
  0.75000   -5.058764  -133.573705   -2.816579
-400.365004  -41.816785  -1862.747
  1.00000   -5.058764  -109.239387   -2.816579
-400.365004  -47.058848  -1934.140

 COMB DB-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    1.360524  108.279914    0.835538
32.161595    4.528093  983.303892
  0.25000    1.360524  108.918946    0.835538
30.088625    4.347097  872.203121
  0.50000    1.360524  109.629669    0.835538
28.560607    4.218057  766.980056
  0.75000    1.360524  110.387447    0.835538
27.041942    4.093056  670.196957
  1.00000    1.360524  111.165276    0.835538
25.553122    3.974115  585.961638

 COMB DB-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -1.277346  -11.174292   -1.170944
-430.629025  -9.365704  -627.998949
  0.25000   -1.277346  -10.405902   -1.170944
-432.154091  -8.604051  -653.529422
  0.50000   -1.277346  -9.672098   -1.170944
-433.037773  -8.308625  -679.059896
  0.75000   -1.277346  -8.997325   -1.170944
-435.198638  -8.519116  -704.591739
  1.00000   -1.277346  -8.403800   -1.170944
-437.268796  -8.729825  -730.152286

 COMB DB-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    4.321987  239.047535    1.721963
163.381273   18.608214  2055.938
  0.25000    4.321987  245.886641    1.721963
144.167237   20.217233  1852.317
  0.50000    4.321987  253.488177    1.721963
129.998657   23.258294  1664.438
  0.75000    4.321987  261.593449    1.721963
116.007188   26.323139  1502.747
  1.00000    4.321987  269.917598    1.721963
102.105036   29.393252  1364.817

 COMB DB-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -2.237698  -79.680953   -3.755642
-697.925494  -11.876305  -1101.064
  0.25000   -2.237698  -71.457870   -3.755642
-712.056920  -12.414515  -1147.492
  0.50000   -2.237698  -63.608239   -3.755642
-726.129374  -12.952442  -1193.920
  0.75000   -2.237698  -56.390340   -3.755642
-740.252533  -13.491361  -1240.371
  1.00000   -2.237698  -50.037568   -3.755642
-759.433473  -14.031557  -1286.832

 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD          >
                                   919

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    4.648599  381.949980    4.457927
80.390718   27.481065  3071.517
  0.25000    4.648599  413.498658    4.457927
81.120126   25.234678  2873.747
  0.50000    4.648599  448.413873    4.457927
81.910947   24.229790  2652.904
  0.75000    4.648599  485.667877    4.457927
82.737104   24.229125  2412.610
  1.00000    4.648599  524.053435    4.457927
83.605908   25.050110  2151.317

 COMB DB-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -3.676560  -255.251750   -2.763090
-546.794156  -17.841415  -1479.622
  0.25000   -3.676560  -217.333739   -2.763090
-546.794156  -20.430430  -1543.588
  0.50000   -3.676560  -181.235920   -2.763090
-546.794156  -23.023597  -1607.555
  0.75000   -3.676560  -148.051682   -2.763090
-546.794156  -25.629901  -1671.545
  1.00000   -3.676560  -118.725853   -2.763090
-546.794156  -28.240368  -1735.541

 COMB DB-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    4.621613  404.840686    6.587302
343.278991   24.367935  3335.707
  0.25000    4.621613  430.675886    6.587302
343.278989   21.680562  3079.014
  0.50000    4.621613  459.274515    6.587302
343.278989   20.953974  2819.418
  0.75000    4.621613  489.779669    6.587302
343.278989   21.178312  2565.359
  1.00000    4.621613  521.212492    6.587302
343.278989   22.078487  2310.067

 COMB DB-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -6.144858  -223.043771   -2.477764
-490.702032  -30.249503  -1647.463
  0.25000   -6.144856  -191.991520   -2.477764
-490.702032  -35.974883  -1718.643
  0.50000   -6.144856  -162.429421   -2.477764
-490.702032  -41.713048  -1789.825
  0.75000   -6.144856  -135.275621   -2.477764
-490.702032  -47.451607  -1861.026
  1.00000   -6.144856  -111.238322   -2.477764
-490.702032  -53.202217  -1932.233

 COMB DL-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    5.001410  132.576803    0.215655
511.939064   14.321170  1151.566
  0.25000    5.001410  133.035816    0.215655
513.062778   18.116920  1043.419
  0.50000    5.001410  133.536951    0.215655
514.162685   22.417035  936.258248
  0.75000    5.001410  134.060711    0.215655
515.539519   27.267568  832.326751
  1.00000    5.001410  134.593666    0.215655
516.892274   32.333631  730.578406

 COMB DL-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -2.031307  -12.173377   -4.647938
-48.556748   -6.701231  -835.574846
  0.25000   -2.031307  -11.715925   -4.647938
-47.343874   -4.457784  -868.264382
  0.50000   -2.031307  -11.270833   -4.647938
-46.213502   -2.839022  -900.990693
  0.75000   -2.031307  -10.856842   -4.647938
-45.167124   -2.573179  -933.701150
  1.00000   -2.031307  -10.488057   -4.647938
-44.201724   -2.612966  -966.412025
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD          >
                                   920

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    5.854076  272.122529    5.373554
814.803441   15.643833  2264.204
  0.25000    5.854076  275.939484    5.373554
822.829095   17.150169  2063.654
  0.50000    5.854076  280.106097    5.373554
831.399046   20.337517  1865.056
  0.75000    5.854076  284.461982    5.373554
840.513428   24.460791  1683.484
  1.00000    5.854076  288.892315    5.373554
850.172733   28.860306  1511.519

 COMB DL-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -5.735924  -61.049484   -4.269558
-147.852627  -27.996270  -1480.947
  0.25000   -5.735924  -57.245104   -4.269558
-139.205598  -31.529144  -1542.520
  0.50000   -5.735924  -53.543472   -4.269558
-131.153022  -36.039549  -1604.055
  0.75000   -5.735924  -50.096660   -4.269558
-123.691688  -42.211312  -1665.667
  1.00000   -5.735924  -47.033376   -4.269558
-116.814686  -48.398674  -1727.279

 COMB DL-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    6.812392  409.716007    6.933519
698.646531   30.251652  3305.597
  0.25000    6.812392  435.428967    6.933519
693.471963   30.139833  3097.108
  0.50000    6.812392  463.497933    6.933519
688.640815   31.789249  2854.435
  0.75000    6.812392  492.855850    6.933519
684.125745   34.710231  2587.074
  1.00000    6.812392  522.712757    6.933519
679.923641   38.440114  2292.176

 COMB DL-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -6.183293  -200.422226   -4.517818
-90.541654   -29.804345  -2000.800
  0.25000   -6.183293  -174.747316   -4.517818
-94.442513   -33.613147  -2087.929
  0.50000   -6.183293  -149.788361   -4.517818
-98.671278   -38.612185  -2174.985
  0.75000   -6.183293  -126.529608   -4.517818
-103.223330  -44.630485  -2262.084
  1.00000   -6.183293  -105.930925   -4.517818
-108.108866  -51.217720  -2349.299

 COMB DL-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    7.452020  437.628651    6.202069
618.985261   37.566330  3580.997
  0.25000    7.452020  458.790352    6.202069
615.378874   39.082512  3329.911
  0.50000    7.452020  481.889859    6.202069
612.010614   42.251138  3053.242
  0.75000    7.452020  506.050097    6.202069
608.858031   46.482360  2767.916
  1.00000    7.452020  530.621031    6.202069
605.916846   51.403081  2469.656

 COMB DL-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -5.769798  -181.191944   -5.448533
-333.847315  -29.444486  -2176.297
  0.25000   -5.769798  -160.062809   -5.448533
-336.463929  -32.658876  -2270.075
  0.50000   -5.769798  -139.522865   -5.448533
-339.310666  -36.892397  -2363.792
  0.75000   -5.769798  -120.382145   -5.448533
-342.382282  -41.987456  -2457.555
  1.00000   -5.769798  -103.429608   -5.448533
-345.692502  -47.575397  -2551.451
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD          >
                                   921

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    1.532823  176.722422    6.369804
242.227715   8.866478  1359.216
  0.25000    1.532823  191.116946    6.369804
262.603843   6.069527  1287.728
  0.50000    1.532823  206.829175    6.369804
284.350701   4.386641  1197.792
  0.75000    1.532823  223.258821    6.369804
307.473012   3.394823  1097.629
  1.00000    1.532823  239.966251    6.369804
331.942854   3.456058  982.806781

 COMB DL-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -4.396054  -113.772658   -0.180151
-155.097871  -24.380065  -741.671315
  0.25000   -4.396054   -99.422568   -0.180151
-133.315334  -30.662656  -776.402375
  0.50000   -4.396054   -85.466494   -0.180151
-113.024778  -37.445918  -811.053668
  0.75000   -4.396054   -72.463574   -0.180151
-94.240255   -44.588561  -845.842984
  1.00000   -4.396054   -60.902340   -0.180151
-76.913119   -52.086018  -880.571271

 COMB DL-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    3.932155  346.074075    7.626336
177.300185   31.013913  2672.459
  0.25000    3.932155  374.836486    7.626336
177.300185   28.702199  2535.211
  0.50000    3.932155  406.225715    7.626336
177.300185   28.096507  2361.614
  0.75000    3.932155  439.057218    7.626336
177.300185   28.535896  2164.550
  1.00000    3.932155  472.445123    7.626336
177.300185   29.745931  1938.435

 COMB DL-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -4.991050  -226.501637   -2.081196
-149.967570  -27.125255  -1444.911
  0.25000   -4.991050  -197.790904   -2.081196
-149.967570  -33.182837  -1512.065
  0.50000   -4.991050  -169.880754   -2.081196
-149.967570  -39.754753  -1579.165
  0.75000   -4.991050  -143.872172   -2.081196
-149.967570  -46.716492  -1646.286
  1.00000   -4.991050  -120.807362   -2.081196
-149.967570  -54.048480  -1713.550

 COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    5.537293  417.599276    7.995739
536.583638   30.451455  3359.622
  0.25000    5.537293  443.867474    7.995739
537.373492   29.099405  3150.350
  0.50000    5.537293  472.532834    7.995739
538.158132   29.164240  2906.901
  0.75000    5.537293  502.515338    7.995739
538.928106   30.226695  2644.498
  1.00000    5.537293  533.005930    7.995739
539.674787   32.101221  2360.014

 COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -6.015755  -210.898876   -2.717749
-167.039608  -33.048727  -2004.533
  0.25000   -6.015755  -184.679851   -2.717749
-167.039403  -39.617144  -2130.147
  0.50000   -6.015755  -159.191921   -2.717749
-167.039403  -46.648142  -2219.696
  0.75000   -6.015755  -135.440602   -2.717749
-167.038024  -54.085287  -2363.612
  1.00000   -6.015755  -114.376122   -2.717749
-167.038024  -61.926137  -2434.940
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD          >
                                   922

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000    5.412984  435.270082    6.951447
463.170394   30.311315  3586.248
  0.25000    5.412984  457.480206    6.951447
463.170394   29.621874  3341.277
  0.50000    5.412984  481.718740    6.951447
463.170394   30.178481  3067.308
  0.75000    5.412984  507.070987    6.951447
463.170394   31.649342  2777.640
  1.00000    5.412984  532.852885    6.951447
463.170394   33.822598  2473.899

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
  0.00000   -5.834799  -181.543788   -3.003964
-428.150142  -33.486901  -2233.815
  0.25000   -5.834799  -159.373569   -3.003964
-428.150142  -38.850440  -2329.856
  0.50000   -5.834799  -137.821554   -3.003964
-428.150142  -44.680526  -2425.819
  0.75000   -5.834799  -117.737917   -3.003964
-428.150142  -50.875665  -2550.419
  1.00000   -5.834799  -99.927438   -3.003964
-428.150142  -57.438409  -2647.898
```

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.609050	135.061247	1.081430
34.521297	7.250721	1172.088	
0.25000	1.609050	135.617974	1.081430
32.998297	6.761856	1062.590	
0.50000	1.609050	136.228291	1.081430
31.578379	6.307828	953.939691	
0.75000	1.609050	136.866800	1.081430
30.262197	5.926147	847.879822	
1.00000	1.609050	137.515660	1.081430
29.046001	5.737402	744.773404	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.192483	-12.796886	-1.113712
-480.229967	-16.236819	-827.978942	
0.25000	-2.192483	-12.238875	-1.113712
-481.604083	-15.493938	-861.615227	
0.50000	-2.192483	-11.695869	-1.113712
-483.074189	-14.941092	-894.667241	
0.75000	-2.192483	-11.189428	-1.113712
-484.640593	-14.777366	-927.791849	
1.00000	-2.192483	-10.742896	-1.113712
-486.303298	-15.051779	-960.885829	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.439134	272.171869	2.003915
146.639785	27.325030	2269.601	
0.25000	4.439134	277.216417	2.003915
135.112673	28.756045	2074.368	
0.50000	4.439134	282.742416	2.003915
124.355114	31.010239	1879.186	
0.75000	4.439134	288.522076	2.003915
114.382602	33.395265	1697.866	
1.00000	4.439134	294.398984	2.003915
105.179213	36.024223	1524.457	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.169481	-68.433239	-3.715930
-742.027834	-19.803451	-1458.371	
0.25000	-3.169481	-63.380186	-3.715930
-752.407601	-19.453843	-1519.597	
0.50000	-3.169481	-58.463136	-3.715930
-763.515377	-19.545514	-1582.684	
0.75000	-3.169481	-53.884151	-3.715930
-775.349415	-19.761544	-1643.715	
1.00000	-3.169481	-49.835090	-3.715930
-787.913369	-20.100421	-1711.327	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
923

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.784748	403.718670	5.500458
100.271302	33.644187	3257.876	
0.25000	4.784748	429.740103	5.500458
104.636467	31.824546	3055.187	
0.50000	4.784748	458.129261	5.500458
109.249563	30.872920	2817.912	
0.75000	4.784748	487.822966	5.500458
114.106845	30.801527	2554.676	
1.00000	4.784748	518.020889	5.500458
119.192367	31.658410	2263.577	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.860172	-201.470066	-2.831160
-620.031135	-28.982889	-1941.167	
0.25000	-4.860172	-175.504676	-2.831160
-616.170989	-31.550139	-2226.119	
0.50000	-4.860172	-150.263286	-2.831160
-612.591465	-34.576182	-2111.029	
0.75000	-4.860172	-126.741978	-2.831160
-609.297628	-37.970984	-2195.967	
1.00000	-4.860172	-105.859906	-2.831160
-606.295441	-41.888564	-2281.001	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.989949	436.639852	7.982196
376.912900	30.146699	3573.123	
0.25000	4.989949	458.028037	7.982196
379.841421	28.068265	3323.329	
0.50000	4.989949	481.363659	7.982196
382.937420	27.248077	3047.494	
0.75000	4.989949	505.771590	7.982196
386.185804	27.341164	2761.311	
1.00000	4.989949	530.593968	7.982196
389.578320	28.244705	2461.626	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.753812	-180.817801	-2.571218
-554.122235	-41.012320	-2226.278	
0.25000	-6.753812	-159.474304	-2.571218
-551.656111	-47.023209	-2322.599	
0.50000	-6.753812	-138.725938	-2.571218
-549.379768	-53.643934	-2418.856	
0.75000	-6.753812	-119.391425	-2.571218
-547.290538	-60.635577	-2515.154	
1.00000	-6.753812	-102.227407	-2.571218
-545.392741	-68.088092	-2611.582	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.606763	405.141757	7.020169
752.870806	28.514971	3346.057	
0.25000	6.606763	430.916459	7.020169
764.142707	28.478403	3091.915	
0.50000	6.606763	464.865467	7.020169
775.402418	30.324569	2832.786	
0.75000	6.606763	501.556142	7.020169
786.706978	33.044164	2578.164	
1.00000	6.606763	539.365962	7.020169
801.973520	36.425294	2322.190	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.144856	-285.925389	-4.409817
-697.925494	-30.249503	-1654.663	
0.25000	-6.144856	-244.885349	-4.409817
-712.056920	-35.974883	-1725.815	
0.50000	-6.144856	-205.814701	-4.409817
-726.129374	-41.713048	-1797.009	
0.75000	-6.144856	-169.896892	-4.409817
-740.252533	-47.451607	-1868.203	
1.00000	-6.144856	-138.158332	-4.409817
-759.433473	-53.202217	-1939.419	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
924

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.452020	437.628651	7.995739
814.803441	37.566330	3586.248	
0.25000	7.452020	458.790352	7.995739
822.829095	39.082512	3341.277	
0.50000	7.452020	481.889859	7.995739
831.399046	42.251138	3067.308	
0.75000	7.452020	507.070987	7.995739
840.513428	46.482360	2777.640	
1.00000	7.452020	533.005930	7.995739
850.172733	51.403081	2473.899	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.753812	-226.501637	-5.448533
-742.027834	-41.002320	-2233.815	
0.25000	-6.753812	-197.790904	-5.448533
-752.407601	-47.023209	-2329.856	
0.50000	-6.753812	-169.880754	-5.448533
-763.515377	-53.643934	-2425.819	
0.75000	-6.753812	-143.872172	-5.448533
-775.349415	-60.635577	-2550.419	
1.00000	-6.753812	-120.807362	-5.448533
-787.913369	-68.088092	-2647.898	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.452020	437.628651	7.995739
814.803441	37.566330	3586.248	
0.25000	7.452020	458.790352	7.995739
822.829095	39.082512	3341.277	
0.50000	7.452020	481.889859	7.995739
831.399046	42.251138	3067.308	
0.75000	7.452020	507.070987	7.995739
840.513428	46.482360	2777.640	
1.00000	7.452020	539.365962	7.995739
850.172733	51.403081	2473.899	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.753812	-285.925389	-5.448533
-742.027834	-41.002320	-2233.815	
0.25000	-6.753812	-244.885349	-5.448533
-752.407601	-47.023209	-2329.856	
0.50000	-6.753812	-205.814701	-5.448533
-763.515377	-53.643934	-2425.819	
0.75000	-6.753812	-169.896892	-5.448533
-775.349415	-60.635577	-2550.419	
1.00000	-6.753812	-138.158332	-5.448533
-787.913369	-68.088092	-2647.898	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.452020	437.628651	7.995739
814.803441	37.566330	3586.248	
0.25000	7.452020	458.790352	7.995739
822.829095	39.082512	3341.277	
0.50000	7.452020	481.889859	7.995739
831.399046	42.251138	3067.308	
0.75000	7.452020	507.070987	7.995739
840.513428	46.482360	2777.640	
1.00000	7.452020	539.365962	7.995739
850.172733	51.403081	2473.899	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.753812	-285.925389	-5.448533
-742.027834	-41.002320	-2233.815	
0.25000	-6.753812	-244.885349	-5.448533
-752.407601	-47.023209	-2329.856	
0.50000	-6.753812	-205.814701	-5.448533
-763.515377	-53.643934	-2425.819	
0.75000	-6.753812	-169.896892	-5.448533
-775.349415	-60.635577	-2550.419	
1.00000	-6.753812	-138.158332	-5.448533
-787.913369	-68.088092	-2647.898	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
925

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 61 ========== LENGTH = 4.957653

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.380340	117.987163	1.808958
492.748484	18.714401	557.055815	
0.25000	3.380340	118.535546	1.808958
493.994230	17.369094	438.260256	
0.50000	3.380340	119.139960	1.808958
495.220642	16.025881	327.845962	
0.75000	3.380340	119.783097	1.808958
496.436698	14.684508	259.763713	
1.00000	3.380340	120.447826	1.808958
498.082007	13.360264	263.988528	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.869301	-9.864274	-0.856703
-147.617322	-3.767026	-730.205384	
0.25000	-1.869301	-9.207589	-0.856703
-145.964552	-2.754978	-746.610332	
0.50000	-1.869301	-8.662629	-0.856703
-144.766082	-1.775041	-763.064478	
0.75000	-1.869301	-8.058997	-0.856703
-143.605591	-1.317693	-779.855653	
1.00000	-1.869301	-7.572677	-0.856703
-142.469522	-1.589594	-796.662402	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.260266	272.411422	2.088597
816.956741	16.826810	1324.454	
0.25000	4.260266	277.896293	2.088597
828.151720	15.933100	1074.689	
0.50000	4.260266	283.941469	2.088597
839.183506	14.997867	845.831961	
0.75000	4.260266	290.373518	2.088597
850.116038	14.271027	670.625646	
1.00000	4.260266	297.019407	2.088597
864.907361	13.620557	616.827268	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.793313	-50.803309	-5.686242
-281.842769	-37.083153	-1309.360	
0.25000	-5.793313	-44.237409	-5.686242
-266.987100	-30.653812	-1355.784	
0.50000	-5.793313	-38.224848	-5.686242
-256.220180	-24.718802	-1402.366	
0.75000	-5.793313	-32.750459	-5.686242
-245.793792	-19.478167	-1449.312	
1.00000	-5.793313	-27.885907	-5.686242
-235.585022	-14.876353	-1496.659	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.728080	446.280299	4.217629
666.190494	24.887998	2134.796	
0.25000	5.728080	478.227697	4.217629
664.152490	22.033667	1859.907	
0.50000	5.728080	513.435258	4.217629
662.163241	19.752423	1564.693	
0.75000	5.728080	550.873080	4.217629
660.193791	17.979087	1269.667	
1.00000	5.728080	589.443775	4.217629
659.865638	16.667257	1041.107	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.075688	-202.490866	-3.605076
-182.747259	-36.117313	-1761.349	
0.25000	-6.075688	-164.360724	-3.605076
-182.747476	-33.049190	-1838.297	
0.50000	-6.075688	-129.419027	-3.605076
-182.747476	-30.268464	-1915.817	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
926

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-6.075688	-97.510947	-3.605076
-182.908256	-27.720106	-1994.186	
1.00000	-6.075688	-69.153194	-3.605076
-184.843012	-25.466515	-2073.744	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.848321	476.047307	6.058052
629.513237	36.882928	2310.901	
0.25000	6.848321	502.319361	6.058052
629.149898	31.410783	1969.813	
0.50000	6.848321	531.270696	6.058052
629.149898	26.485793	1629.629	
0.75000	6.848321	562.056574	6.058052
629.149898	22.101500	1313.997	
1.00000	6.848321	593.774393	6.058052
629.149898	18.113484	1084.509	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.573806	-174.983630	-3.473547
-431.458898	-34.757556	-1939.332	
0.25000	-5.573806	-143.627489	-3.473547
-431.458898	-31.720422	-2023.437	
0.50000	-5.573806	-114.894404	-3.473547
-431.458898	-29.008089	-2108.101	
0.75000	-5.573806	-88.656568	-3.473547
-431.458898	-26.621379	-2193.464	
1.00000	-5.573806	-65.334904	-3.473547
-431.458898	-24.720289	-2279.870	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.718387	211.532426	0.773633
268.138741	1.843722	1019.025	
0.25000	1.718387	228.949111	0.773633
288.892321	1.843469	903.788319	
0.50000	1.718387	248.143638	0.773633
309.326012	2.071180	778.438978	
0.75000	1.718387	268.561659	0.773633
329.573574	2.312201	647.724947	
1.00000	1.718387	289.632182	0.773633
356.961584	2.561968	506.386889	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.418239	-111.482609	-5.234974
-165.851173	-38.201825	-673.278032	
0.25000	-4.418239	-90.659063	-5.234974
-138.378511	-32.611294	-712.072272	
0.50000	-4.418239	-71.584467	-5.234974
-118.537135	-27.531707	-751.193343	
0.75000	-4.418239	-54.196878	-5.234974
-99.314669	-22.784123	-790.655572	
1.00000	-4.418239	-38.744978	-5.234974
-80.469809	-18.429407	-830.753677	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.592444	412.553721	4.833408
191.378016	24.774768	1992.522	
0.25000	4.592444	447.436069	4.833408
191.378016	20.378234	1773.304	
0.50000	4.592444	485.875176	4.833408
191.378016	16.442231	1531.698	
0.75000	4.592444	526.750244	4.833408
191.378016	13.110726	1275.547	
1.00000	4.592444	568.862797	4.833408
191.378016	10.231117	994.606786	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.273633	-221.155125	-3.304148
-163.307615	-39.084241	-1298.411	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
927

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-5.273633	-179.522567	-3.304148
-163.307615	-36.074516	-1373.386	
0.50000	-5.273633	-141.373101	-3.304148
-163.307615	-33.423374	-1449.109	
0.75000	-5.273633	-106.536860	-3.304148
-163.307615	-30.719011	-1525.523	
1.00000	-5.273633	-75.571290	-3.304148
-163.307615	-28.652379	-1603.207	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.552423	471.977720	5.303361
546.209173	26.561061	2288.202	
0.25000	5.552423	503.722594	5.303361
546.209170	21.580449	1984.188	
0.50000	5.552423	538.702553	5.303361
546.209170	17.219317	1670.318	
0.75000	5.552423	575.899862	5.303361
546.209170	13.806031	1357.617	
1.00000	5.552423	614.223676	5.303361
546.209170	11.254742	1091.682	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.763871	-205.264417	-4.822505
-252.524133	-50.357435	-1750.303	
0.25000	-5.763871	-167.376798	-4.822505
-252.524133	-45.350737	-1836.138	
0.50000	-5.763871	-132.660037	-4.822505
-252.524133	-40.532387	-1922.642	
0.75000	-5.763871	-100.959050	-4.822505
-252.524133	-35.916723	-2009.775	
1.00000	-5.763871	-72.777059	-4.822505
-252.524133	-31.703130	-2098.041	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.234492	476.638090	5.126607
528.610820	26.836542	2322.267	
0.25000	5.234492	503.382786	5.126607
528.610820	21.843366	1979.925	
0.50000	5.234492	532.854491	5.126607
528.610820	17.428041	1638.048	
0.75000	5.234492	564.139376	5.126607
528.610820	13.800277	1308.725	
1.00000	5.234492	596.482053	5.126607
528.610820	10.982988	1067.348	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.399557	-176.060772	-4.795537
-501.704074	-47.602812	-1934.196	
0.25000	-5.399557	-144.140611	-4.795537
-501.704074	-42.493420	-2019.897	
0.50000	-5.399557	-114.890977	-4.795537
-501.704074	-37.530284	-2106.141	
0.75000	-5.399557	-88.181631	-4.795537
-501.704074	-32.714111	-2192.916	
1.00000	-5.399557	-64.439974	-4.795537
-501.704074	-28.195648	-2280.630	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.528839	121.903809	0.816270
128.142287	5.731008	587.645943	
0.25000	1.528839	122.558955	0.816270
126.086475	4.775203	463.051769	
0.50000	1.528839	123.283794	0.816270
124.582888	3.842360	347.845256	
0.75000	1.528839	124.054067	0.816270
123.128382	4.110999	258.118216	
1.00000	1.528839	124.845126	0.816270
121.709081	5.158152	261.320009	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
928

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.456641	-10.191070	-1.963911
-471.598651	-9.898815	-730.451844	
0.25000	-1.456641	-9.408542	-1.963911
-473.140353	-7.936972	-746.625029	
0.50000	-1.456641	-8.690803	-1.963911
-474.658805	-6.007922	-762.901212	
0.75000	-1.456641	-8.033350	-1.963911
-476.165777	-4.755498	-779.415774	
1.00000	-1.456641	-7.451524	-1.963911
-478.205906	-3.712537	-796.094984	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.454173	277.826079	4.671603
275.341635	31.452375	1367.300	
0.25000	4.454173	284.834287	4.671603
256.265940	25.814158	1118.584	
0.50000	4.454173	292.583834	4.671603
242.306011	20.212875	889.151151	
0.75000	4.454173	300.819850	4.671603
228.802140	16.079665	692.402304	
1.00000	4.454173	309.281769	4.671603
215.627665	12.331194	625.501034	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.552274	-58.213298	-2.024966
-756.237835	-15.529097	-1287.301	
0.25000	-2.552274	-49.843389	-2.024966
-770.537076	-13.368783	-1332.800	
0.50000	-2.552274	-42.167340	-2.024966
-784.622359	-11.574726	-1378.642	
0.75000	-2.552274	-35.139028	-2.024966
-798.599125	-10.148054	-1424.730	
1.00000	-2.552274	-28.915608	-2.024966
-817.527369	-9.385886	-1471.412	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.126498	447.178632	4.809817
187.535328	25.934347	2153.311	
0.25000	5.126498	479.406643	4.809817
187.650929	21.286721	1877.404	
0.50000	5.126498	514.917754	4.809817
187.721668	17.069257	1581.481	
0.75000	5.126498	552.680300	4.809817
187.782623	14.659580	1271.827	
1.00000	5.126498	591.586723	4.809817
187.829875	12.763203	1036.419	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.211413	-203.609990	-2.142050
-596.700217	-28.943497	-1993.947	
0.25000	-4.211413	-165.149927	-2.142050
-596.700217	-27.193306	-1811.644	
0.50000	-4.211413	-129.901790	-2.142050
-596.700217	-25.541040	-1888.026	
0.75000	-4.211413	-97.719668	-2.142050
-596.700217	-24.035361	-1965.126	
1.00000	-4.211413	-69.107657	-2.142050
-596.700217	-22.839058	-2043.545	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.047059	475.304826	4.523629
456.376353	23.193794	2310.863	
0.25000	5.047059	501.697901	4.523629
456.376353	18.826019	1969.718	
0.50000	5.047059	530.781867	4.523629
456.376353	15.203093	1629.304	
0.75000	5.047059	561.709030	4.523629
456.376353	13.414773	1301.778	
1.00000	5.047059	593.572562	4.523629
456.376353	12.113039	1076.252	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
929

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.536769	-175.152705	-5.881379
-577.962499	-54.035940	-1932.415	
0.25000	-6.536769	-143.652257	-5.881379
-577.962499	-47.562045	-2015.916	
0.50000	-6.536769	-114.787384	-5.881379
-577.962499	-41.235115	-2100.017	
0.75000	-6.536769	-88.429485	-5.881379
-577.962499	-35.082964	-2184.707	
1.00000	-6.536769	-64.999724	-5.881379
-577.962499	-29.324256	-2270.550	

```
 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.035424   146.513143    3.775388
594.444940   33.305337   728.556112
 0.25000    5.035424   147.001439    3.775388
595.580954   29.532429   600.442880
 0.50000    5.035424   147.528839    3.775388
596.779589   25.920144   496.011782
 0.75000    5.035424   148.083129    3.775388
598.040771   22.617506   420.898089
 1.00000    5.035424   148.644252    3.775388
599.358544   20.041631   390.464267

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.203106  -14.421866   -1.232919
-184.634153   -4.749131  -966.118173
 0.25000   -2.203106  -13.987862   -1.232919
-183.438764   -3.654328  -989.022893
 0.50000   -2.203106  -13.567381   -1.232919
-182.336297   -2.740530  -1033.778
 0.75000   -2.203106  -13.178740   -1.232919
-181.328094   -2.317162   -1122.092
 1.00000   -2.203106  -12.836823   -1.232919
-180.410013   -3.024091   -1236.795

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.035011   327.174638    3.590974
947.775657   29.387183   1508.529
 0.25000    6.035011   331.236444    3.590974
955.885194   26.459281   1253.460
 0.50000    6.035011   335.624200    3.590974
964.436739   23.853793   1047.556
 0.75000    6.035011   340.235171    3.590974
973.438016   21.775354   904.496589
 1.00000    6.035011   344.904765    3.590974
982.834629   20.594499   837.412090

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.926436  -49.284556   -6.560733
-326.437734   -50.743595   -1726.814
 0.25000   -5.926436  -45.676698   -6.560733
-317.921290   -43.667030   -1800.687
 0.50000   -5.926436  -42.175100   -6.560733
-310.082355   -37.209364   -1929.776
 0.75000   -5.926436  -38.945288   -6.560733
-302.889066   -31.582992   -2135.409
 1.00000   -5.926436  -36.101602   -6.560733
-296.353446   -27.083740   -2391.769

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.229811   510.049594    5.572717
811.256583   38.257782   2289.734
 0.25000    7.229811   537.483483    5.572717
805.819907   33.854266   1989.358
 0.50000    7.229811   567.134067    5.572717
800.769396   30.150114   1727.736
 0.75000    7.229811   598.256744    5.572717
796.100091   27.285031   1504.158
 1.00000    7.229811   629.826449    5.572717
791.811145   25.595670   1334.897
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
 <              MOVING              LOAD              >
                                     930

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.630922  -165.153544   -4.583150
-246.658017   -53.404022   -2348.971
 0.25000   -6.630922  -140.772371   -4.583150
-250.874650   -43.826797   -2480.683
 0.50000   -6.630922  -117.171307   -4.583150
-255.408151   -46.810870   -2705.950
 0.75000   -6.630922   -95.370328   -4.583150
-260.264537   -44.592141   -3032.827
 1.00000   -6.630922   -76.172030   -4.583150
-265.423230   -43.500264   -3431.926

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.802285   547.609358    7.745454
766.717829   51.568195   2468.664
 0.25000    7.802285   570.190922    7.745454
762.888280   44.232693   2115.697
 0.50000    7.802285   594.586788    7.745454
759.322253   37.564139   1814.398
 0.75000    7.802285   620.198521    7.745454
756.022608   31.922067   1573.225
 1.00000    7.802285   646.178058    7.745454
752.990307   27.585847   1404.050

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.203455  -146.484469   -4.351754
-507.108301   -50.259616   -2551.384
 0.25000   -6.203455  -126.420153   -4.351754
-509.976500   -46.855277   -2690.726
 0.50000   -6.203455  -106.997226   -4.351754
-513.070888   -43.976377   -2928.294
 0.75000   -6.203455   -89.056279   -4.351754
-516.396242   -41.934758   -3278.006
 1.00000   -6.203455   -73.256124   -4.351754
-519.946828   -41.170146   -3706.864

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    1.789928   230.058824    0.636180
280.350780    2.473945   982.138606
 0.25000    1.789928   245.389185    0.636180
300.893550    2.790437   866.892225
 0.50000    1.789928   261.951274    0.636180
322.539248    3.133546   764.874250
 0.75000    1.789928   279.354651    0.636180
345.303124    3.489322   676.744095
 1.00000    1.789928   296.970192    0.636180
369.149413    3.984239   598.278002

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.465284   -90.785106   -5.340986
-176.544971   -52.425955   -880.453401
 0.25000   -4.465284   -77.166949   -5.340986
-155.147824   -47.017901   -948.882769
 0.50000   -4.465284   -63.967548   -5.340986
-135.440765   -41.730729   -1062.303
 0.75000   -4.465284   -51.747980   -5.340986
-117.420741   -36.594633   -1212.148
 1.00000   -4.465284   -41.042468   -5.340986
-100.991081   -31.717681   -1391.018

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.374647   452.007787    5.112704
216.948591   28.215549   1938.499
 0.25000    4.374647   482.693824    5.112704
216.948591   23.782931   1712.101
 0.50000    4.374647   515.839795    5.112704
216.948591   19.970936   1510.678
 0.75000    4.374647   550.638788    5.112704
216.948591   16.895110   1335.285
 1.00000    4.374647   585.936135    5.112704
216.948591   14.615184   1177.721
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
 <              MOVING              LOAD              >
                                     931

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.376279  -179.814903   -3.301647
-181.934168   -54.596806   -1713.623
 0.25000   -5.376279  -152.551899   -3.301647
-181.934168   -52.209595   -1846.262
 0.50000   -5.376279  -126.160359   -3.301647
-181.934168   -50.113251   -2066.557
 0.75000   -5.376279  -101.782642   -3.301647
-181.934168   -48.479648   -2359.398
 1.00000   -5.376279   -80.307469   -3.301647
-181.934168   -47.445471   -2709.422

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.942520   533.602580    5.985473
638.914666   31.318656   2358.597
 0.25000    5.942520   561.626624    5.985473
639.539509   26.036233   2047.097
 0.50000    5.942520   591.894999    5.985473
640.164353   21.548338   1776.497
 0.75000    5.942520   623.672890    5.985473
640.789196   18.484373   1549.785
 1.00000    5.942520   655.905778    5.985473
641.414039   16.961684   1368.334

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.374698  -169.714482   -5.359640
-296.700256   -63.550420   -2434.695
 0.25000   -6.374698  -144.817015   -5.359640
-296.700256   -58.774498   -2584.066
 0.50000   -6.374698  -120.716110   -5.359640
-296.700256   -54.477846   -2830.019
 0.75000   -6.374698   -98.454275   -5.359640
-296.700256   -51.146212   -3159.601
 1.00000   -6.374698   -78.865569   -5.359640
-296.700256   -48.974266   -3558.555

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.770185   548.155159    5.853850
624.145995   33.702765   2473.990
 0.25000    5.770185   571.850693    5.853850
624.145995   28.332497   2124.534
 0.50000    5.770185   597.445771    5.853850
624.145995   23.658965   1823.760
 0.75000    5.770185   624.317299    5.853850
624.145995   20.193055   1576.239
 1.00000    5.770185   651.573654    5.853850
624.145995   18.050538   1388.792

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.195091  -147.710734   -5.512937
-585.858003   -60.025351   -2647.910
 0.25000   -6.195091  -126.658442   -5.512937
-585.858003   -54.836924   -2792.126
 0.50000   -6.195091  -106.279087   -5.512937
-585.858003   -50.057137   -3032.580
 0.75000   -6.195091   -87.454791   -5.512937
-585.858003   -46.087344   -3371.713
 1.00000   -6.195091   -70.871819   -5.512937
-585.858003   -43.105257   -3786.974

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    1.773057   149.496909    1.024829
156.076962    7.933383   746.878808
 0.25000    1.773057   150.092949    1.024829
154.562014    7.025161   614.761286
 0.50000    1.773057   150.739199    1.024829
153.164632    6.210551   505.562009
 0.75000    1.773057   151.417966    1.024829
151.883320    7.336199   424.252679
 1.00000    1.773057   152.105867    1.024829
150.715436    8.609316   387.767515
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
 <              MOVING              LOAD              >
                                     932

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.368622  -14.100558   -3.685379
-558.767588   -17.709287   -961.198133
 0.25000   -2.368622  -13.569989   -3.685379
-560.168112   -13.622048   -983.365275
 0.50000   -2.368622  -13.056511   -3.685379
-561.648891   -10.199453   -1026.676
 0.75000   -2.368622  -12.581211   -3.685379
-563.211657   -7.521093   -1113.258
 1.00000   -2.368622  -12.165952   -3.685379
-564.852065   -5.516838   -1228.026

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.656365   328.642055    6.188688
302.813244   38.552472   1527.491
 0.25000    4.656365   334.039679    6.188688
291.333883   31.825252   1272.540
 0.50000    4.656365   339.889877    6.188688
280.737339   25.991948   1063.541
 0.75000    4.656365   346.031247    6.188688
271.028313   21.553636   914.421695
 1.00000    4.656365   352.255844    6.188688
262.173093   18.341866   835.058237

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.490894   -53.705700   -3.684735
-858.627624   -23.912640   -1711.865
 0.25000   -3.490894   -48.902899   -3.684735
-869.211832   -20.409485   -1785.198
 0.50000   -3.490894   -44.254786   -3.684735
-880.411614   -17.630632   -1908.576
 0.75000   -3.490894   -39.952086   -3.684735
-892.222065   -15.805755   -2106.838
 1.00000   -3.490894   -36.189497   -3.684735
-904.633898   -15.648022   -2356.250

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.275370   502.877944    5.378441
245.086738   32.804492   2266.084
 0.25000    5.275370   530.633149    5.378441
249.260297   27.835725   1969.804
 0.50000    5.275370   560.605111    5.378441
253.585949   23.901775   1709.457
 0.75000    5.275370   592.071821    5.378441
258.060680   21.419272   1485.050
 1.00000    5.275370   623.988724    5.378441
262.684897   20.084786   1309.566

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.367659  -164.981435   -3.713256
-719.651295   -45.107935   -2281.447
 0.25000   -5.367659  -140.326679   -3.713256
-716.141443   -42.152635   -2408.609
 0.50000   -5.367659  -116.459673   -3.713256
-712.955969   -39.835086   -2625.948
 0.75000   -5.367659   -94.414020   -3.713256
-710.072691   -38.293501   -2944.238
 1.00000   -5.367659   -75.009528   -3.713256
-707.478340   -38.047684   -3334.432

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.443896   545.666670    5.183033
549.586164   29.197599   2462.671
 0.25000    5.443896   568.480889    5.183033
552.353548   24.759797   2111.350
 0.50000    5.443896   593.118457    5.183033
555.208244   21.495089   1810.071
 0.75000    5.443896   618.984735    5.183033
558.151536   19.827779   1567.267
 1.00000    5.443896   645.221149    5.183033
561.181075   19.185697   1392.366
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
 <              MOVING              LOAD              >
                                     933

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.158896  -146.463803   -7.389365
-700.168762   -71.433815   -2611.730
 0.25000   -7.158896  -126.197244   -7.389365
-697.995840   -64.065226   -2752.350
 0.50000   -7.158896  -106.578473   -7.389365
-696.027704   -57.380050   -2987.460
 0.75000   -7.158896   -88.456835   -7.389365
-694.249973   -51.753905   -3326.105
 1.00000   -7.158896   -72.507376   -7.389365
-692.662576   -47.280118   -3741.918

 COMB     DB ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.848321   476.638090    6.058052
816.956741   36.882928   2322.267
 0.25000    6.848321   503.722594    6.058052
828.157120   31.410783   1984.188
 0.50000    6.848321   538.702553    6.058052
839.183506   26.485793   1670.318
 0.75000    6.848321   575.899862    6.058052
850.116038   22.101500   1357.617
 1.00000    6.848321   614.223676    6.058052
864.907361   18.113484   1091.682

 COMB     DB ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.536769  -221.155125   -5.881379
-756.237835   -54.035940   -1939.332
 0.25000   -6.536769  -179.522567   -5.881379
-770.537076   -47.562045   -2023.437
 0.50000   -6.536769  -141.373101   -5.881379
-784.622359   -41.235115   -2108.101
 0.75000   -6.536769  -106.536860   -5.881379
-798.599125   -35.916723   -2193.464
 1.00000   -6.536769   -75.571290   -5.881379
-817.527369   -31.703130   -2280.630

 COMB     DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.802285   548.155159    7.745454
947.775657   51.568195   2473.990
 0.25000    7.802285   571.850693    7.745454
955.885194   44.232893   2124.534
 0.50000    7.802285   597.445771    7.745454
964.436739   37.564139   1823.760
 0.75000    7.802285   624.317299    7.745454
973.438016   31.922067   1576.239
 1.00000    7.802285   655.905778    7.745454
982.834629   27.585847   1404.050

 COMB     DL ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.158896  -179.814903   -7.389365
-858.627624   -71.433815   -2647.910
 0.25000   -7.158896  -152.551899   -7.389365
-869.211832   -64.065226   -2792.126
 0.50000   -7.158896  -126.160359   -7.389365
-880.411614   -57.380050   -3032.580
 0.75000   -7.158896  -101.782642   -7.389365
-892.222065   -51.753905   -3371.713
 1.00000   -7.158896   -80.307469   -7.389365
-904.633898   -48.974266   -3786.974

 COMB     CAR ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.802285   548.155159    7.745454
947.775657   51.568195   2473.990
 0.25000    7.802285   571.850693    7.745454
955.885194   44.232893   2124.534
 0.50000    7.802285   597.445771    7.745454
964.436739   37.564139   1823.760
 0.75000    7.802285   624.317299    7.745454
973.438016   31.922067   1576.239
 1.00000    7.802285   655.905778    7.745454
982.834629   27.585847   1404.050
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
 <              MOVING              LOAD              >
                                     934

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.158896  -221.155125   -7.389365
-858.627624   -71.433815   -2647.910
 0.25000   -7.158896  -179.522567   -7.389365
-869.211832   -64.065226   -2792.126
 0.50000   -7.158896  -141.373101   -7.389365
-880.411614   -57.380050   -3032.580
 0.75000   -7.158896  -106.536860   -7.389365
-892.222065   -51.753905   -3371.713
 1.00000   -7.158896   -80.307469   -7.389365
-904.633898   -48.974266   -3786.974

 COMB  DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.802285   548.155159    7.745454
947.775657   51.568195   2473.990
 0.25000    7.802285   571.850693    7.745454
955.885194   44.232893   2124.534
 0.50000    7.802285   597.445771    7.745454
964.436739   37.564139   1823.760
 0.75000    7.802285   624.317299    7.745454
973.438016   31.922067   1576.239
 1.00000    7.802285   655.905778    7.745454
982.834629   27.585847   1404.050

 COMB  DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.158896  -221.155125   -7.389365
-858.627624   -71.433815   -2647.910
 0.25000   -7.158896  -179.522567   -7.389365
-869.211832   -64.065226   -2792.126
 0.50000   -7.158896  -141.373101   -7.389365
-880.411614   -57.380050   -3032.580
 0.75000   -7.158896  -106.536860   -7.389365
-892.222065   -51.753905   -3371.713
 1.00000   -7.158896   -80.307469   -7.389365
-904.633898   -48.974266   -3786.974

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.357331   112.578534   13.819492
450.399577   14.981740   264.015948
 0.25000    3.357331   113.196455   13.819492
451.643524    2.732708   269.314957
 0.50000    3.357331   113.861633   13.819492
452.842520    6.141110   275.903771
 0.75000    3.357331   114.551049   13.819492
454.011718    9.975346   284.336813
 1.00000    3.357331   115.239892   13.819492
455.599914   13.876462   293.148909

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.056279  -37.729710   -3.185056
-315.749070   -2.239389   -795.805275
 0.25000   -2.056279  -37.110815   -3.185056
-314.213435   -12.545439   -793.994063
 0.50000   -2.056279  -36.759898   -3.185056
-313.119462   -27.180560   -793.569572
 0.75000   -2.056279  -36.425736   -3.185056
-312.044625   -42.473503   -793.957897
 1.00000   -2.056279  -36.158861   -3.185056
-311.090961   -59.075381   -795.539238

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.362932   308.582104   12.638039
767.631007   14.871078   616.411037
 0.25000    4.362932   314.777075   12.638039
778.796485   34.010170   505.949408
 0.50000    4.362932   321.444132   12.638039
789.558739   76.220635   499.221886
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
 <              MOVING              LOAD              >
                                     935

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000    4.362932   328.352829   12.638039
800.056235   119.606175   511.139679
 1.00000    4.362932   335.255450   12.638039
814.326256   163.150690   526.751695

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.932851   -52.653752   -35.338522
-511.401474   -15.636303   -1495.409
 0.25000   -5.932851   -46.544197   -35.338522
-497.600123   -15.273253   -1544.065
 0.50000   -5.932851   -43.026687   -35.338522
-487.766864   -25.398152   -1595.565
 0.75000   -5.932851   -39.677066   -35.338522
-478.099188   -39.821822   -1649.195
 1.00000   -5.932851   -37.088350   -35.338522
-469.516128   -55.156893   -1704.296

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.087968   551.409077   11.946936
620.807060   17.407221   1040.985
 0.25000    6.087968   588.278089   11.946936
618.420499   22.236266   798.611729
 0.50000    6.087968   627.868778   11.946936
618.420499   44.569866   683.463387
 0.75000    6.087968   668.824239   11.946936
618.420499   70.734087   687.670540
 1.00000    6.087968   709.727420   11.946936
618.420499   102.121595   708.171319

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.554624  -120.897752   -25.344409
-383.852162   -25.353306   -2072.763
 0.25000   -6.554624   -89.647730   -25.344409
-383.852162   -21.555704   -2190.541
 0.50000   -6.554624   -68.744474   -25.344409
-384.580676   -25.012128   -2316.085
 0.75000   -6.554624   -48.835830   -25.344409
-386.585187   -35.154094   -2448.339
 1.00000   -6.554624   -38.103887   -25.344409
-388.542636   -49.163504   -2584.992

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.111395   588.032236   26.878810
667.859279   18.759968   1084.553
 0.25000    7.111395   618.328078   26.878810
667.859279   20.582433   835.056413
 0.50000    7.111395   650.888488   26.878810
667.859279   41.832256   745.617859
 0.75000    7.111395   684.558023   26.878810
667.859279   66.318130   754.195879
 1.00000    7.111395   718.183675   26.878810
667.859279   95.600592   776.235229

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.040095  -103.906602   -23.677703
-585.487134   -24.650168   -2229.530
 0.25000   -6.040095   -78.161670   -23.677703
-585.487134   -35.921794   -2404.916
 0.50000   -6.040095   -60.977875   -23.677703
-585.487134   -60.218916   -2537.134
 0.75000   -6.040095   -44.611751   -23.677703
-585.487134   -90.281991   -2675.434
 1.00000   -6.040095   -35.734222   -23.677703
-585.487134   -122.881116   -2817.602

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    1.961696   279.706762    0.209044
267.472840    1.688871   505.804497
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
 <              MOVING              LOAD              >
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000	1.961696	299.549863	0.209044	
287.918366	35.466245	330.873698		
0.50000	1.961696	320.885233	0.209044	
307.629552	78.981405	266.487881		
0.75000	1.961696	342.978678	0.209044	
326.888001	122.777921	263.655118		
1.00000	1.961696	365.048765	0.209044	
353.209057	167.032675	271.411722		

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-4.352491	-53.950774	-36.067680	
-196.450747	-18.065193	-830.494677		
0.25000	-4.352491	-35.498069	-36.067680	
-170.943221	-5.864399	-905.502182		
0.50000	-4.352491	-24.238267	-36.067680	
-152.759088	-2.341760	-984.011349		
0.75000	-4.352491	-13.515214	-36.067680	
-134.793506	-2.210848	-1065.655		
1.00000	-4.352491	-6.242226	-36.067680	
-118.764848	-2.378809	-1149.479		

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	4.989496	553.134728	14.175994	
215.881019	8.999180	994.616088		
0.25000	4.989496	593.374779	14.175994	
215.881019	23.322750	643.771816		
0.50000	4.989496	636.583845	14.175994	
215.881019	48.334956	510.311941		
0.75000	4.989496	681.284400	14.175994	
215.881019	75.444476	506.943633		
1.00000	4.989496	725.926371	14.175994	
215.881019	108.928050	521.470650		

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.657197	-102.240039	-27.055708	
-186.964212	-27.566642	-1603.306		
0.25000	-5.657197	-68.031172	-27.055708	
-186.964212	-26.432129	-1751.477		
0.50000	-5.657197	-45.217702	-27.055708	
-186.964212	-35.823927	-1907.343		
0.75000	-5.657197	-23.489892	-27.055708	
-186.964212	-50.252258	-2070.398		
1.00000	-5.657197	-11.684263	-27.055708	
-186.964212	-67.219385	-2238.366		

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.889675	603.218866	17.714070	
541.340367	11.748015	1091.760		
0.25000	5.889675	639.829810	17.714070	
541.340367	32.165419	794.062346		
0.50000	5.889675	679.141086	17.714070	
541.340367	69.251600	679.525551		
0.75000	5.889675	719.810512	17.714070	
541.340367	109.051480	683.240458		
1.00000	5.889675	760.425712	17.714070	
541.340367	154.912179	703.304695		

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.095950	-99.071215	-37.076150	
-394.579326	-31.238959	-2097.501		
0.25000	-6.095950	-67.883583	-37.076150	
-394.579326	-30.617449	-2243.814		
0.50000	-6.095950	-47.128356	-37.076150	
-394.579326	-43.453876	-2397.108		
0.75000	-6.095950	-27.380790	-37.076150	
-394.579326	-62.322252	-2556.923		
1.00000	-6.095950	-16.563772	-37.076150	
-394.579326	-83.868347	-2721.561		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
937

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.507283	590.052787	19.542099	
619.968104	11.888101	1067.369		
0.25000	5.507283	620.905296	19.542099	
619.968104	28.482459	834.179934		
0.50000	5.507283	654.034183	19.542099	
619.968104	63.699842	742.390214		
0.75000	5.507283	688.306612	19.542099	
619.968104	101.508960	750.343194		
1.00000	5.507283	722.534124	19.542099	
619.968104	144.174095	772.016725		

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.742702	-87.232528	-34.444001	
-599.118181	-28.284838	-2280.727		
0.25000	-5.742702	-61.004119	-34.444001	
-599.118181	-30.842593	-2409.705		
0.50000	-5.742702	-43.512847	-34.444001	
-599.118181	-47.079674	-2544.561		
0.75000	-5.742702	-26.853885	-34.444001	
-599.118181	-68.323344	-2684.784		
1.00000	-5.742702	-17.802374	-34.444001	
-599.118181	-91.932811	-2829.018		

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	1.688273	116.175954	3.126944	
282.771984	5.509943	261.314041		
0.25000	1.688273	116.949359	3.126944	
280.858586	8.368094	264.354451		
0.50000	1.688273	117.781152	3.126944	
279.498175	15.893571	269.026323		
0.75000	1.688273	118.640132	3.126944	
278.177286	24.611939	276.391792		
1.00000	1.688273	119.497591	3.126944	
277.018708	33.464790	283.978043		

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-1.631570	-35.848022	-7.225383	
-435.037870	-4.280991	-796.962934		
0.25000	-1.631570	-35.299797	-7.225383	
-436.622623	-2.207976	-791.096687		
0.50000	-1.631570	-34.860293	-7.225383	
-438.149592	-8.732723	-786.525967		
0.75000	-1.631570	-34.441634	-7.225383	
-439.632046	-8.488298	-782.914121		
1.00000	-1.631570	-34.316568	-7.225383	
-441.620170	-12.317455	-779.908257		

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	4.577539	322.940281	28.501599	
477.188165	12.666821	625.946151		
0.25000	4.577539	331.188013	28.501599	
459.431714	10.354638	498.552811		
0.50000	4.577539	340.056539	28.501599	
446.808739	20.217241	481.104456		
0.75000	4.577539	349.217076	28.501599	
434.563463	31.494690	492.107849		
1.00000	4.577539	358.361953	28.501599	
423.832483	43.316820	505.639842		

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-2.866088	-51.015941	-9.813720	
-713.545159	-10.020730	-1472.713		
0.25000	-2.866088	-45.014242	-9.813720	
-728.275999	-30.999902	-1519.956		
0.50000	-2.866088	-40.328754	-9.813720	
-742.469121	-62.706956	-1570.624		
0.75000	-2.866088	-35.865597	-9.813720	
-756.244065	-96.516146	-1624.140		
1.00000	-2.866088	-34.388480	-9.813720	
-774.700443	-131.737196	-1679.706		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
938

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.598049	555.882954	13.860429	
368.387494	12.393847	1036.559		
0.25000	5.598049	593.044354	13.860429	
368.387494	13.710468	784.656770		
0.50000	5.598049	632.946050	13.860429	
368.387494	24.736698	666.779903		
0.75000	5.598049	674.227128	13.860429	
368.387494	37.835171	668.858348		
1.00000	5.598049	715.452525	13.860429	
368.387494	57.277931	687.578965		

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-4.747736	-119.482915	-15.791496	
-559.555926	-22.856884	-2044.645		
0.25000	-4.747736	-87.791310	-15.791496	
-559.555926	-24.938614	-2158.876		
0.50000	-4.747736	-66.724497	-15.791496	
-559.555926	-33.434040	-2280.752		
0.75000	-4.747736	-46.660198	-15.791496	
-559.555926	-46.386955	-2409.416		
1.00000	-4.747736	-35.662005	-15.791496	
-559.555926	-63.195635	-2542.719		

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.463492	584.437857	13.526959	
594.009603	11.113502	1076.250		
0.25000	5.463492	614.883267	13.526959	
594.009603	34.974252	830.083942		
0.50000	5.463492	647.574879	13.526959	
594.009603	77.780555	739.513304		
0.75000	5.463492	681.395122	13.526959	
594.009603	123.093794	747.553028		
1.00000	5.463492	715.170900	13.526959	
594.009603	173.267659	768.742528		

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.931878	-102.900245	-40.532565	
-629.207294	-29.703461	-2271.016		
0.25000	-6.931878	-77.008265	-40.532565	
-629.207294	-25.459774	-2392.734		
0.50000	-6.931878	-59.747893	-40.532565	
-629.207294	-33.274322	-2520.995		
0.75000	-6.931878	-43.308851	-40.532565	
-629.207294	-45.846337	-2655.126		
1.00000	-6.931878	-34.368295	-40.532565	
-629.207294	-62.174246	-2793.381		

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.137625	135.545774	31.126590	
566.761387	20.881026	390.003873		
0.25000	5.137625	136.116832	31.126590	
567.894744	3.966894	374.486256		
0.50000	5.137625	136.722783	31.126590	
569.074185	8.727016	372.139115		
0.75000	5.137625	137.343029	31.126590	
570.299708	13.713357	378.134441		
1.00000	5.137625	137.958083	31.126590	
571.573696	18.736820	389.256721		

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-2.359961	-38.678741	-4.068787	
-401.268892	-3.888980	-1237.522		
0.25000	-2.359961	-38.287787	-4.068787	
-400.081897	-23.871000	-1332.705		
0.50000	-2.359961	-37.919480	-4.068787	
-399.004968	-61.840121	-1444.150		
0.75000	-2.359961	-37.594521	-4.068787	
-398.030842	-100.410520	-1566.406		
1.00000	-2.359961	-37.328862	-4.068787	
-397.152700	-138.988601	-1695.333		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
939

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	6.224182	385.895235	26.524660	
938.870170	20.405531	836.640835		
0.25000	6.224182	390.659775	26.524660	
946.956039	37.976875	727.174015		
0.50000	6.224182	395.716001	26.524660	
955.353235	90.209847	680.230936		
0.75000	6.224182	400.889218	26.524660	
964.094705	144.884304	675.276649		
1.00000	6.224182	406.021329	26.524660	
973.180183	200.032064	689.167394		

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.133567	-52.754385	-44.593855	
-624.657338	-28.150346	-2393.011		
0.25000	-6.133567	-49.500363	-44.593855	
-616.209218	-26.681761	-2690.130		
0.50000	-6.133567	-46.438396	-44.593855	
-608.945056	-55.111252	-3029.083		
0.75000	-6.133567	-43.733314	-44.593855	
-601.604356	-86.962256	-3411.181		
1.00000	-6.133567	-41.525033	-44.593855	
-595.343750	-119.638057	-3813.344		

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.674620	669.333516	25.772239	
801.769164	24.877924	1334.318		
0.25000	7.674620	702.138230	25.772239	
796.087793	28.644382	1165.756		
0.50000	7.674620	736.932607	25.772239	
791.007829	58.898148	1036.557		
0.75000	7.674620	772.582167	25.772239	
786.588847	96.218052	938.042168		
1.00000	7.674620	807.924304	25.772239	
782.878142	139.071124	935.278033		

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-7.109558	-117.534255	-35.090393	
-505.049281	-44.421172	-3432.947		
0.25000	-7.109558	-95.500101	-35.090393	
-509.856573	-39.000322	-3958.634		
0.50000	-7.109558	-74.740559	-35.090393	
-514.842372	-57.041145	-4554.340		
0.75000	-7.109558	-56.508392	-35.090393	
-519.892534	-84.065334	-5226.494		
1.00000	-7.109558	-44.424337	-35.090393	
-524.894575	-115.291886	-5968.545		

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.175476	720.017487	39.683783	
848.689551	27.351848	1403.950		
0.25000	8.175476	747.007036	39.683783	
844.653933	27.663768	1207.334		
0.50000	8.175476	775.633783	39.683783	
841.053365	54.608202	1083.805		
0.75000	8.175476	804.965427	39.683783	
837.939844	88.974277	1008.560		
1.00000	8.175476	834.042593	39.683783	
835.355716	128.201411	1012.547		

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.635598	-102.543419	-32.131899	
-724.507089	-42.680053	-3707.295		
0.25000	-6.635598	-84.408249	-32.131899	
-727.861609	-64.079328	-4275.291		
0.50000	-6.635598	-67.324847	-32.131899	
-731.336357	-90.084984	-4925.402		
0.75000	-6.635598	-52.324277	-32.131899	
-734.836160	-134.953247	-5659.531		
1.00000	-6.635598	-42.335662	-32.131899	
-738.272015	-183.395286	-6454.038		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
940

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	1.987595	334.383825	0.198262	
301.153342	2.710150	598.019063		
0.25000	1.987595	352.470998	0.198262	
321.514100	35.932196	494.931029		
0.50000	1.987595	371.663385	0.198262	
342.700029	89.194683	418.072835		
0.75000	1.987595	391.318628	0.198262	
364.748561	145.443362	361.095364		
1.00000	1.987595	410.786783	0.198262	
387.693837	202.155811	351.213909		

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-4.570672	-51.162530	-45.846492	
-225.331219	-31.731974	-1391.435		
0.25000	-4.570672	-38.878766	-45.846492	
-204.159467	-8.083069	-1657.164		
0.50000	-4.570672	-27.296901	-45.846492	
-184.924226	-3.740563	-1954.853		
0.75000	-4.570672	-17.102687	-45.846492	
-167.473260	-3.340280	-2294.097		
1.00000	-4.570672	-8.782166	-45.846492	
-151.698870	-3.457741	-2669.795		

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	4.789890	667.346379	15.041880	
261.508787	13.115429	1177.745		
0.25000	4.789890	703.989027	15.041880	
261.508787	27.453732	968.514178		
0.50000	4.789890	742.644896	15.041880	
261.508787	54.790344	811.611491		
0.75000	4.789890	782.657662	15.041880	
261.508787	91.346793	695.398310		
1.00000	4.789890	822.123058	15.041880	
261.508787	133.584372	681.168526		

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.787280	-98.597149	-34.490469	
-219.551920	-47.650911	-2709.505		
0.25000	-5.787280	-73.959750	-34.490469	
-219.551920	-23.871000	-3054.107		
0.50000	-5.787280	-50.750567	-34.490469	
-219.551920	-41.738976	-3832.286		
0.75000	-5.787280	-30.367856	-34.490469	
-219.551920	-55.641104	-4512.057		
1.00000	-5.787280	-16.554147	-34.490469	
-219.551920	-73.383434	-5265.616		

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	6.331905	734.984238	20.671093	
671.437190	16.240380	1362.019		
0.25000	6.331905	768.437550	20.671093	
672.050651	37.136975	1164.713		
0.50000	6.331905	803.908027	20.671093	
672.616439	77.468701	1020.281		
0.75000	6.331905	840.255422	20.671093	
673.143290	126.354784	923.105206		
1.00000	6.331905	876.282479	20.671093	
673.652982	180.119924	918.684986		

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.763458	-100.195716	-43.686748	
-483.754006	-49.815652	-3558.654		
0.25000	-6.763458	-77.699140	-43.686748	
-483.742509	-44.008674	-4123.327		
0.50000	-6.763458	-56.504894	-43.686748	
-483.683338	-55.794004	-4764.507		
0.75000	-6.763458	-37.891466	-43.686748	
-483.585231	-77.635946	-5495.361		
1.00000	-6.763458	-25.211948	-43.686748	
-483.469964	-102.798479	-6310.063		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
941

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	6.110301	720.206543	23.257137	
769.912958	17.872614	1388.838		
0.25000	6.110301	748.501729	23.257137	
769.912958	35.187483	1204.440		
0.50000	6.110301	778.505948	23.257137	
769.912958	73.311430	1079.996		
0.75000	6.110301	809.249076	23.257137	
769.912958	119.375474	1003.946		
1.00000	6.110301	839.723967	23.257137	
769.912958	169.689268	1006.323		

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.574080	-90.853455	-40.980698	
-732.720060	-44.617208	-3786.593		
0.25000	-6.574080	-71.828636	-40.980698	
-732.720060	-42.136623	-4343.992		
0.50000	-6.574080	-53.906673	-40.980698	
-732.720060	-57.935343	-4982.989		
0.75000	-6.574080	-38.167292	-40.980698	
-732.720060	-82.864828	-5709.203		
1.00000	-6.574080	-27.500447	-40.980698	
-732.720060	-110.896137	-6507.129		

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	1.914449	137.134201	3.703539	
353.103999	9.406816	388.285966		
0.25000	1.914449	137.860612	3.703539	
351.587739	17.535381	367.265208		
0.50000	1.914449	138.633405	3.703539	
350.216261	31.990110	360.638294		
0.75000	1.914449	139.425025	3.703539	
348.981868	47.944192	363.596246		
1.00000	1.914449	140.209357	3.703539	
347.880821	64.001983	372.796978		

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-2.550490	-36.692317	-13.132742	
-536.591209	-6.954773	-1227.275		
0.25000	-2.550490	-36.208646	-13.132742	
-538.013571	-3.392769	-1317.236		
0.50000	-2.550490	-35.757340	-13.132742	
-539.492013	-6.053067	-1424.764		
0.75000	-2.550490	-35.361569	-13.132742	
-541.025531	-10.345673	-1545.330		
1.00000	-2.550490	-35.184298	-13.132742	
-542.606107	-14.734511	-1672.367		

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	4.854390	397.584573	31.493014	
567.643229	19.342964	835.882000		
0.25000	4.854390	404.140818	31.493014	
556.145430	20.842133	713.731691		
0.50000	4.854390	411.111576	31.493014	
545.740656	34.029402	656.053000		
0.75000	4.854390	418.252297	31.493014	
536.384941	49.282946	643.274266		
1.00000	4.854390	425.330390	31.493014	
528.047265	65.521853	655.985391		

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-3.775229	-51.824695	-14.007337	
-847.857029	-17.598535	-2355.142		
0.25000	-3.775229	-47.450033	-14.007337	
-858.628856	-40.776692	-2646.363		
0.50000	-3.775229	-43.366340	-14.007337	
-869.823260	-75.469876	-2982.706		
0.75000	-3.775229	-39.783537	-14.007337	
-881.415208	-112.436130	-3369.350		
1.00000	-3.775229	-38.041220	-14.007337	
-893.386574	-150.505807	-3779.493		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
942

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.745775	663.324402	17.773413	
478.220072	20.006000	1310.213		
0.25000	5.745775	696.422931	17.773413	
481.848205	25.013522	1136.076		
0.50000	5.745775	731.506215	17.773413	
485.634339	41.908383	1002.796		
0.75000	5.745775	767.457323	17.773413	
489.690185	67.661081	902.325947		
1.00000	5.745775	803.092112	17.773413	
494.123741	97.774350	895.553844		

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.890112	-115.755058	-24.966718	
-710.584033	-39.650242	-3333.557		
0.25000	-5.890112	-93.494449	-24.966718	
-707.356239	-34.493101	-3845.519		
0.50000	-5.890112	-72.508964	-24.966718	
-704.363898	-44.412222	-4430.785		
0.75000	-5.890112	-54.075751	-24.966718	
-701.496245	-62.696800	-5094.691		
1.00000	-5.890112	-41.280407	-24.966718	
-698.676338	-84.086102	-5827.892		

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.844842	712.495242	17.152878	
749.995378	18.133236	1392.513		
0.25000	5.844842	739.707961	17.152878	
752.310481	46.247047	1200.331		
0.50000	5.844842	768.555756	17.152878	
754.729268	96.852906	1075.549		
0.75000	5.844842	798.114558	17.152878	
757.343317	155.216693	999.370510		
1.00000	5.844842	827.414815	17.152878	
760.241450	217.464946	1001.644		

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-7.591701	-102.069565	-50.790085	
-795.223538	-48.501238	-3741.413		
0.25000	-7.591701	-83.759969	-50.790085	
-793.276271	-36.917697	-4288.910		
0.50000	-7.591701	-66.509242	-50.790085	
-791.454432	-45.253536	-4915.512		
0.75000	-7.591701	-51.357111	-50.790085	
-789.672208	-62.335013	-5638.197		
1.00000	-7.591701	-40.884093	-50.790085	
-787.867225	-83.615639	-6408.184		

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.111395	603.218866	28.501599	
767.631007	18.759968	1091.760		
0.25000	7.111395	639.829810	28.501599	
778.796485	35.466245	835.056413		
0.50000	7.111395	679.141086	28.501599	
789.558739	78.981405	745.617859		
0.75000	7.111395	719.810512	28.501599	
800.056235	123.093794	754.195879		
1.00000	7.111395	760.425712	28.501599	
814.326256	173.267659	776.235229		

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.931878 -120.897752 -40.532565
-713.545159 -31.238959 -2280.727
0.25000 -6.931878 -89.647730 -40.532565
-728.275999 -35.921794 -2409.705
0.50000 -6.931878 -68.744474 -40.532565
-742.469121 -62.706956 -2544.561
0.75000 -6.931878 -48.835830 -40.532565
-756.244065 -96.516146 -2684.784
1.00000 -6.931878 -38.103887 -40.532565
-774.700443 -131.787196 -2829.018
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
943

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.175476 734.984238 39.683783
938.870170 27.351848 1403.950
0.25000 8.175476 768.437550 39.683783
946.956039 46.247047 1207.334
0.50000 8.175476 803.908027 39.683783
955.353235 96.852906 1083.805
0.75000 8.175476 840.255422 39.683783
964.094705 155.216693 1008.560
1.00000 8.175476 876.282479 39.683783
973.180183 217.464946 1012.547

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.591701 -117.538325 -50.790085
-847.857029 -49.815652 -3786.593
0.25000 -7.591701 -95.500101 -50.790085
-858.628856 -54.079328 -4343.992
0.50000 -7.591701 -74.740559 -50.790085
-869.823260 -90.084984 -4982.989
0.75000 -7.591701 -56.508392 -50.790085
-881.415208 -134.953247 -5709.203
1.00000 -7.591701 -44.424337 -50.790085
-893.386574 -183.395286 -6507.129

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.175476 734.984238 39.683783
938.870170 27.351848 1403.950
0.25000 8.175476 768.437550 39.683783
946.956039 46.247047 1207.334
0.50000 8.175476 803.908027 39.683783
955.353235 96.852906 1083.805
0.75000 8.175476 840.255422 39.683783
964.094705 155.216693 1008.560
1.00000 8.175476 876.282479 39.683783
973.180183 217.464946 1012.547

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.591701 -120.897752 -50.790085
-847.857029 -49.815652 -3786.593
0.25000 -7.591701 -95.500101 -50.790085
-858.628856 -54.079328 -4343.992
0.50000 -7.591701 -74.740559 -50.790085
-869.823260 -90.084984 -4982.989
0.75000 -7.591701 -56.508392 -50.790085
-881.415208 -134.953247 -5709.203
1.00000 -7.591701 -44.424337 -50.790085
-893.386574 -183.395286 -6507.129

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.175476 734.984238 39.683783
938.870170 27.351848 1403.950
0.25000 8.175476 768.437550 39.683783
946.956039 46.247047 1207.334
0.50000 8.175476 803.908027 39.683783
955.353235 96.852906 1083.805
0.75000 8.175476 840.255422 39.683783
964.094705 155.216693 1008.560
1.00000 8.175476 876.282479 39.683783
973.180183 217.464946 1012.547

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.591701 -120.897752 -50.790085
-847.857029 -49.815652 -3786.593
0.25000 -7.591701 -95.500101 -50.790085
-858.628856 -54.079328 -4343.992
0.50000 -7.591701 -74.740559 -50.790085
-869.823260 -90.084984 -4982.989
0.75000 -7.591701 -56.508392 -50.790085
-881.415208 -134.953247 -5709.203
1.00000 -7.591701 -44.424337 -50.790085
-893.386574 -183.395286 -6507.129
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
944

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 63 ========== LENGTH = 3.469994

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.083340 42.704145 2.963546
340.194005 11.040216 292.981672
0.25000 4.083340 42.704145 2.963546
341.046522 8.508883 271.564551
0.50000 4.083340 42.823535 2.963546
341.920181 6.400225 250.147431
0.75000 4.083340 43.067838 2.963546
342.813577 3.596272 229.844442
1.00000 4.083340 43.311783 2.963546
343.733889 7.878257 210.116931

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.404795 -108.757547 -16.710483
-425.120327 -58.836586 -792.931683
0.25000 -2.404795 -108.278948 -16.710483
-424.180339 -44.693270 -715.557089
0.50000 -2.404795 -107.794304 -16.710483
-423.214224 -30.552662 -706.571705
0.75000 -2.404795 -107.322629 -16.710483
-422.215604 -16.453360 -712.447940
1.00000 -2.404795 -106.868681 -16.710483
-421.182651 -7.078817 -718.976414

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.255868 53.129289 43.587367
519.966819 159.908274 526.521463
0.25000 5.255868 53.129364 43.587367
527.636571 122.368305 488.148025
0.50000 5.255868 54.231396 43.587367
535.492500 84.861386 449.774588
0.75000 5.255868 56.682773 43.587367
543.523200 47.487585 422.542897
1.00000 5.255868 59.130919 43.587367
551.792218 17.654028 425.118814

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.331315 -337.727198 -15.919113
-772.948843 -52.183060 -1702.027
0.25000 -6.331315 -332.927539 -15.919113
-764.509345 -41.128119 -1524.648
0.50000 -6.331315 -328.066608 -15.919113
-755.837296 -30.707641 -1473.787
0.75000 -6.331315 -323.334945 -15.919113
-746.874148 -21.292920 -1437.721
1.00000 -6.331315 -318.780134 -15.919113
-737.602039 -15.014570 -1402.679

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.222693 66.332408 30.464855
425.604566 100.696626 708.001296
0.25000 7.222693 66.332408 30.464855
424.080307 75.631180 656.653059
0.50000 7.222693 67.794512 30.464855
422.938857 51.929923 605.304823
0.75000 7.222693 82.498564 30.464855
422.938857 29.653651 618.767199
1.00000 7.222693 97.202578 30.464855
422.938857 15.162005 682.810457

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.358725 -708.682408 -14.244386
-589.761933 -46.738628 -2583.442
0.25000 -7.358725 -680.036967 -14.244386
-589.761933 -37.812279 -2307.224
0.50000 -7.358725 -650.990884 -14.244386
-589.761933 -31.263385 -2191.395
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
945

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -7.358725 -622.673567 -14.244386
-589.761933 -28.776061 -2091.421
1.00000 -7.358725 -595.364990 -14.244386
-590.321704 -28.014177 -1994.216

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.009951 70.554310 28.311093
608.320797 94.141951 776.194914
0.25000 8.009951 70.554310 28.311093
608.320797 70.927733 720.127846
0.50000 8.009951 71.816441 28.311093
608.320797 48.909951 664.060778
0.75000 8.009951 83.902486 28.311093
608.320797 28.097739 661.288686
1.00000 8.009951 95.988273 28.311093
608.320797 14.243197 716.974370

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.773248 -724.325467 -33.697379
-662.723274 -120.591114 -2816.993
0.25000 -6.773248 -700.778478 -33.697379
-662.723274 -93.691501 -2513.427
0.50000 -6.773248 -676.902600 -33.697379
-662.723274 -69.853649 -2395.024
0.75000 -6.773248 -653.626331 -33.697379
-662.723274 -49.290618 -2290.071
1.00000 -6.773248 -631.178200 -33.697379
-662.723274 -30.550566 -2187.585

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.200278 22.626600 45.677442
139.851888 167.254241 271.378677
0.25000 2.200278 22.627947 45.677442
154.123222 128.176969 251.748968
0.50000 2.200278 25.044108 45.677442
168.702405 89.101471 232.119259
0.75000 2.200278 32.920939 45.677442
183.551168 50.025847 247.849174
1.00000 2.200278 40.791611 45.677442
198.803026 11.878021 300.938075

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.377014 -371.358608 -0.306388
-338.110751 -2.222396 -1150.501
0.25000 -4.377014 -355.967696 -0.306388
-322.627053 -1.977932 -1024.024
0.50000 -4.377014 -340.372682 -0.306388
-306.743262 -2.282702 -957.038375
0.75000 -4.377014 -325.182870 -0.306388
-290.334070 -3.936299 -891.568659
1.00000 -4.377014 -310.549399 -0.306388
-273.353339 -11.595685 -827.380957

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.435373 43.258201 33.671513
196.462099 110.545759 521.514567
0.25000 5.435373 43.258201 33.671513
196.462099 83.170429 483.985811
0.50000 5.435373 44.955341 33.671513
196.462099 57.333925 446.457054
0.75000 5.435373 61.000313 33.671513
196.462099 32.915036 479.689139
1.00000 5.435373 77.044860 33.671513
196.462099 10.317570 591.899653

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.258413 -740.038058 -17.656138
-231.122442 -66.833493 -2239.663
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
946

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -6.258413 -708.777341 -17.656138
-231.122442 -51.810374 -1991.671
0.50000 -6.258413 -677.080155 -17.656138
-231.122442 -40.536572 -1857.019
0.75000 -6.258413 -646.179199 -17.656138
-231.122442 -33.714884 -1726.057
1.00000 -6.258413 -616.377289 -17.656138
-231.122442 -28.536770 -1597.943

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.561625 58.612487 46.082319
422.013111 156.218893 703.226625
0.25000 6.561625 58.612487 46.082319
422.013111 118.061840 652.378259
0.50000 6.561625 60.218078 46.082319
422.013111 81.213341 601.529892
0.75000 6.561625 74.813878 46.082319
422.013111 45.521512 615.075514
1.00000 6.561625 89.409060 46.082319
422.013111 12.586692 696.568085

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.621279 -770.121759 -21.827617
-533.393151 -81.468481 -2721.244
0.25000 -6.621279 -741.682636 -21.827617
-533.393151 -64.173542 -2422.952
0.50000 -6.621279 -712.846936 -21.827617
-533.393151 -49.696019 -2290.396
0.75000 -6.621279 -684.736160 -21.827617
-533.393151 -39.959867 -2165.620
1.00000 -6.621279 -657.624144 -21.827617
-533.393151 -31.573111 -2043.395

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.014235 64.134272 42.305564
605.977880 145.009367 772.069702
0.25000 6.014235 64.134272 42.305564
605.977880 109.706242 716.431531
0.50000 6.014235 65.435489 42.305564
605.977880 75.555487 660.793360
0.75000 6.014235 77.737353 42.305564
605.977880 42.452380 659.408339
1.00000 6.014235 90.038891 42.305564
605.977880 12.041714 711.373512

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.168746 -727.472638 -24.189409
-628.514546 -90.047198 -2829.877
0.25000 -6.168746 -703.504687 -24.189409
-628.514546 -70.424099 -2520.975
0.50000 -6.168746 -679.202090 -24.189409
-628.514546 -53.609991 -2406.067
0.75000 -6.168746 -655.509972 -24.189409
-628.514546 -40.275196 -2298.649
1.00000 -6.168746 -632.660506 -24.189409
-628.514546 -28.116753 -2193.339

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.633200 40.005423 7.905926
414.668728 33.321012 284.168334
0.25000 1.633200 40.005423 7.905926
413.476600 26.628623 263.900173
0.50000 1.633200 40.005423 7.905926
412.246994 19.997394 243.632012
0.75000 1.633200 40.238734 7.905926
410.973991 13.574132 224.696392
1.00000 1.633200 40.551244 7.905926
409.658945 7.867662 206.631169
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
947

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.709366 -111.798110 -2.919505
-304.398359 -10.550120 -781.911203
0.25000 -1.709366 -111.193173 -2.919505
-305.442674 -8.045341 -705.790073
0.50000 -1.709366 -110.579027 -2.919505
-306.519846 -5.558173 -703.255549
0.75000 -1.709366 -109.979359 -2.919505
-307.631664 -3.131543 -711.277831
1.00000 -1.709366 -109.402472 -2.919505
-308.783786 -1.301870 -719.925967

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.473352 49.674738 11.161774
734.935893 43.027471 505.921940
0.25000 4.473352 49.674738 11.161774
723.861188 33.729454 469.815938
0.50000 4.473352 49.674738 11.161774
712.428053 24.862712 433.709936
0.75000 4.473352 52.315072 11.161774
700.596142 16.715376 411.853231
1.00000 4.473352 55.641883 11.161774
688.372974 9.693117 427.341304

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.152192 -361.660240 -35.180163
-476.499507 -129.867615 -1682.087
0.25000 -3.152192 -355.214888 -35.180163
-486.178415 -100.039002 -1504.567
0.50000 -3.152192 -348.672504 -35.180163
-496.166924 -70.285054 -1456.382
0.75000 -3.152192 -342.285679 -35.180163
-506.483313 -40.885474 -1418.684
1.00000 -3.152192 -336.139447 -35.180163
-517.178916 -14.577280 -1382.450

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.916230 63.077202 18.171594
533.024104 54.503094 687.332157
0.25000 5.916230 63.077202 18.171594
533.024104 44.784072 638.571770
0.50000 5.916230 64.749520 18.171594
533.046126 32.306567 589.311383
0.75000 5.916230 79.563295 18.171594
533.046126 21.100606 605.423421
1.00000 5.916230 94.376283 18.171594
533.046126 11.663845 676.556281

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.341102 -714.749535 -17.387944
-408.007699 -61.383705 -2545.740
0.25000 -5.341102 -685.884484 -17.387944
-408.007699 -47.264334 -2272.395
0.50000 -5.341102 -656.617191 -17.387944
-408.007699 -35.585400 -2162.214
0.75000 -5.341102 -628.086070 -17.387944
-408.007699 -29.488522 -2063.566
1.00000 -5.341102 -600.567917 -17.387944
-408.007699 -24.607969 -1967.913

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.739968 68.962104 49.841864
624.613845 174.204282 768.874039
0.25000 5.739968 68.962104 49.841864
624.613845 132.417024 713.569435
0.50000 5.739968 70.255449 49.841864
624.613845 91.851114 658.264831
0.75000 5.739968 82.394668 49.841864
624.613845 52.551154 656.499746
1.00000 5.739968 94.533530 49.841864
624.613845 15.495030 711.938933
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
948

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.397295 -719.476150 -16.532364
-616.771655 -59.198575 -2795.433
0.25000 -7.397295 -695.824811 -16.532364
-616.771655 -46.328025 -2492.724
0.50000 -7.397295 -671.843315 -16.532364
-616.771655 -36.359776 -2380.826
0.75000 -7.397295 -648.464318 -16.532364
-616.771655 -30.438910 -2278.713
1.00000 -7.397295 -625.916678 -16.532364
-616.771655 -25.991009 -2179.274

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.813033 62.670726 3.869537
450.749651 15.054697 389.306897
0.25000 7.813033 62.791556 3.869537
451.477965 11.709157 359.947940
0.50000 7.813033 63.012535 3.869537
452.270785 8.383199 333.044544
0.75000 7.813033 63.256754 3.869537
453.129119 5.121600 308.084012
1.00000 7.813033 63.513819 3.869537
454.059104 9.885174 286.099259

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.723363 -139.684968 -39.026223
-531.814973 -136.636615 -1692.334
0.25000 -2.723363 -139.248310 -39.026223
-530.844497 -102.786383 -1603.738
0.50000 -2.723363 -138.803375 -39.026223
-529.895643 -68.940032 -1517.910
0.75000 -2.723363 -138.372279 -39.026223
-528.967241 -35.127592 -1434.872
1.00000 -2.723363 -137.951531 -39.026223
-528.058432 -8.669198 -1356.016

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.491685 84.163466 55.464201
680.459941 195.346216 688.917777
0.25000 8.491685 85.058422 55.464201
685.657660 147.416728 639.930636
0.50000 8.491685 86.897095 55.464201
691.291869 99.859225 602.019036
0.75000 8.491685 88.925116 55.464201
697.409496 53.088290 578.249125
1.00000 8.491685 91.071490 55.464201
704.022053 19.503250 600.835273

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.875602 -431.336537 -33.053028
-625.102489 -115.401784 -2431.312
0.25000 -8.875602 -427.687827 -33.053028
-919.223728 -87.923097 -3517.652
0.50000 -8.875602 -424.005378 -33.053028
-912.460205 -61.075929 -3228.165
0.75000 -8.875602 -420.371413 -33.053028
-905.844617 -35.291768 -2957.639
1.00000 -8.875602 -416.858978 -33.053028
-899.367751 -20.803475 -2706.128

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.080299 103.389814 43.953735
593.408899 135.340719 935.125954
0.25000 10.080299 104.582237 43.953735
589.411739 98.638774 873.773151
0.50000 10.080299 117.063767 43.953735
585.395560 65.556006 878.318128
0.75000 10.080299 130.809360 43.953735
581.408580 36.496996 904.208844
1.00000 10.080299 145.400858 43.953735
577.503690 19.290231 962.408585
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
949

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.825960 -846.949232 -31.638862
-747.773458 -111.539915 -5969.329
0.25000 -9.825960 -821.646921 -31.638862
-750.991234 -86.192655 -5413.031
0.50000 -9.825960 -796.139735 -31.638862
-754.629555 -64.043764 -4889.383
0.75000 -9.825960 -770.917339 -31.638862
-758.658344 -47.350244 -4402.942
1.00000 -9.825960 -746.621044 -31.638862
-763.054633 -40.922194 -3952.166

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.985338 106.927865 39.857600
785.076247 124.513901 1012.542
0.25000 10.985338 107.958398 39.857600
782.304064 91.131205 944.784973
0.50000 10.985338 118.229666 39.857600
779.505828 61.020293 931.277907
0.75000 10.985338 129.539844 39.857600
776.721305 34.628725 940.581821
1.00000 10.985338 141.547548 39.857600
773.993515 19.022589 1003.924

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.833732 -882.231754 -48.960203
-831.597041 -179.888056 -6453.485
0.25000 -8.833732 -861.415757 -48.960203
-833.856983 -139.162127 -5856.026
0.50000 -8.833732 -840.431622 -48.960203
-836.423188 -101.348534 -5286.688
0.75000 -8.833732 -819.681761 -48.960203
-839.277758 -68.404590 -4754.466
1.00000 -8.833732 -799.692932 -48.960203
-842.393753 -44.565861 -4265.009

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.081498 31.855320 58.849115
180.038322 201.736628 351.149786
0.25000 2.081498 34.407775 58.849115
193.091585 150.846805 329.827440
0.50000 2.081498 41.352147 58.849115
207.246619 100.273864 345.557952
0.75000 2.081498 49.012097 58.849115
222.580163 51.404282 372.540154
1.00000 2.081498 57.131070 58.849115
239.184709 11.174889 427.597523

COMB DL-G2-1 ---------- MIN

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.471095  -435.628765    -0.301611
-375.581169   -2.957020   -2674.329
 0.25000   -7.471095  -421.746541    -0.301611
-358.121634   -2.886443   -2387.592
 0.50000   -7.471095  -407.741236    -0.301611
-341.085680   -3.297416   -2117.855
 0.75000   -7.471095  -393.888331    -0.301611
-324.479473   -5.606555   -1870.410
 1.00000   -7.471095  -380.549499    -0.301611
-308.165873  -18.642295   -1642.582

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.882634   61.344288   44.559080
236.608936  133.516956  681.226956
 0.25000    5.882634   63.037065   44.559080
236.608936   96.245102  639.404019
 0.50000    5.882634   76.989241   44.559080
236.608936   63.039208  670.302632
 0.75000    5.882634   92.354640   44.559080
236.608936   35.370998  727.628819
 1.00000    5.882634  108.663142   44.559080
236.608936   12.696012  841.569428
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                950

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.454216  -873.529437   -18.360077
-278.471186  -72.757255   -5268.221
 0.25000   -8.454216  -845.286310   -18.360077
-278.471186  -57.483489   -4692.204
 0.50000   -8.454216  -816.811652   -18.360077
-278.471186  -46.986120   -4151.759
 0.75000   -8.454216  -788.657067   -18.360077
-278.471186  -43.105311   -3655.794
 1.00000   -8.454216  -761.530050   -18.360077
-278.471186  -44.037365   -3201.044

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.749856   84.553532   55.429247
534.348243  178.163399  918.583715
 0.25000    7.749856   86.188327   55.429247
534.442066  131.291795  858.823345
 0.50000    7.749856   98.918344   55.429247
534.519941   87.731355  865.498514
 0.75000    7.749856  112.948176   55.429247
534.574822   49.803569  896.539933
 1.00000    7.749856  127.839277   55.429247
534.603034   17.125742  979.997047

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.634907  -927.270154   -25.132371
-661.765921  -69.907346   -6312.398
 0.25000   -9.634907  -901.489337   -25.132371
-661.422400   -78.971242   -5684.864
 0.50000   -9.634907  -875.496925   -25.132371
-661.062931   -61.976881   -5092.358
 0.75000   -9.634907  -849.796642   -25.132371
-660.680466   -51.857366   -4557.861
 1.00000   -9.634907  -825.033708   -25.132371
-660.271335   -46.299810   -4067.397

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.295775   92.554778   51.177466
756.043424  167.235222   1006.381
 0.25000    7.295775   93.861928   51.177466
756.043424  123.906277   939.513583
 0.50000    7.295775  104.635697   51.177466
756.043424   83.652521   928.797169
 0.75000    7.295775  116.500746   51.177466
756.043424   47.592782   993.959367
 1.00000    7.295775  129.094053   51.177466
756.043424   17.022689   994.499171

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.854461  -885.242055   -27.842846
-785.989002  -107.778923   -6508.959
 0.25000   -8.854461  -863.432919   -27.842846
-785.989002   -84.555024   -5899.959
 0.50000   -8.854461  -841.444996   -27.842846
-785.989002   -64.586086   -5321.005
 0.75000   -8.854461  -819.704230   -27.842846
-785.989002   -50.449914   -4791.614
 1.00000   -8.854461  -798.756945   -27.842846
-785.989002   -40.497627   -4306.188

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    1.549385   60.002097   14.855640
510.694509   62.385895  372.980869
 0.25000    1.549385   60.004420   14.855640
509.481384   49.604828  346.057363
 0.50000    1.549385   60.194601   14.855640
508.291314   36.891130  321.669629
 0.75000    1.549385   60.496391   14.855640
507.124887   24.365535  299.696266
 1.00000    1.549385   60.816463   14.855640
505.982737   12.684828  281.218960
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                951

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -2.897724  -141.504115   -3.387443
-394.473505  -12.590884   -1673.305
 0.25000   -2.897724  -140.940391   -3.387443
-395.392049   -9.725358   -1586.688
 0.50000   -2.897724  -140.370765   -3.387443
-396.395743   -6.885062   -1502.662
 0.75000   -2.897724  -139.807588   -3.387443
-397.488556   -4.137172   -1421.931
 1.00000   -2.897724  -139.265658   -3.387443
-398.674015   -2.554293   -1346.216

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.879363   79.042415   16.159434
853.265972   63.707715  656.325794
 0.25000    5.879363   79.072033   16.159434
844.082405   50.388427  610.684237
 0.50000    5.879363   80.951666   16.159434
835.069565   37.770193   578.447033
 0.75000    5.879363   83.680426   16.159434
826.236673   26.239039   562.589257
 1.00000    5.879363   86.573065   16.159434
817.582725   16.005089   595.861382

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.102304  -451.936936   -38.452904
-604.921757  -148.308758   -3778.364
 0.25000   -4.102304  -446.851874   -38.452904
-611.870168  -115.661970   -3471.694
 0.50000   -4.102304  -441.713927   -38.452904
-619.485879   -83.544986   -3177.031
 0.75000   -4.102304  -436.638796   -38.452904
-627.771310   -52.230104   -2903.003
 1.00000   -4.102304  -431.753738   -38.452904
-636.762679   -22.908626   -2650.132

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    6.520580   97.888495   30.923278
674.052315   96.307780  895.863638
 0.25000    6.520580   99.796225   30.923278
676.273283   70.959542  838.371652
 0.50000    6.520580  112.400147   30.923278
678.564097   47.393131  847.640720
 0.75000    6.520580  126.289920   30.923278
680.969961   30.758146  877.232786
 1.00000    6.520580  141.029668   30.923278
683.549155   18.493428  941.327614

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.564449  -841.349653   -21.633574
-552.747364   -81.849201   -5829.443
 0.25000   -7.564449  -815.859767   -21.633574
-549.534008   -63.734830   -5279.912
 0.50000   -7.564449  -790.161729   -21.633574
-546.487974   -47.479040   -4763.080
 0.75000   -7.564449  -764.748419   -21.633574
-543.556688   -40.377701   -4283.844
 1.00000   -7.564449  -740.248779   -21.633574
-540.688229   -37.970821   -3842.353

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    6.420591  104.797051   63.547279
795.155328  215.151706   1001.795
 0.25000    6.420591  106.310820   63.547279
796.550683  161.284639  935.245273
 0.50000    6.420591  116.671733   63.547279
797.963118  109.262492  923.586089
 0.75000    6.420591  128.090083   63.547279
799.431232   63.108172  934.060156
 1.00000    6.420591  140.207318   63.547279
800.999753   22.244294  996.089070
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                952

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.461006  -873.419389   -20.500646
-796.503059   -80.139584   -6411.279
 0.25000  -10.461006  -852.458951   -20.500646
-794.431741   -63.247585   -5812.263
 0.50000  -10.461006  -831.325897   -20.500646
-792.487449   -48.365806   -5253.384
 0.75000  -10.461006  -810.430257   -20.500646
-790.626038   -41.167952   -4738.670
 1.00000  -10.461006  -790.285390   -20.500646
-788.897713   -39.129000   -4265.654

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.009951   70.554310   49.841864
734.935893  174.204282  776.194914
 0.25000    8.009951   70.554310   49.841864
723.861188  132.417024  720.127846
 0.50000    8.009951   71.816441   49.841864
712.428053   91.851114  664.060778
 0.75000    8.009951   83.902486   49.841864
700.656342   52.551154  661.286686
 1.00000    8.009951   97.202578   49.841864
688.372974   17.654028  716.974370

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.397295  -770.121719   -35.180163
-772.948843  -129.867615   -2829.877
 0.25000   -7.397295  -741.682636   -35.180163
-764.509345  -100.039002   -2520.975
 0.50000   -7.397295  -712.846936   -35.180163
-755.729216   -70.285054   -2486.067
 0.75000   -7.397295  -684.736160   -35.180163
-746.874148   -49.290618   -2298.649
 1.00000   -7.397295  -657.624144   -35.180163
-737.602039   -31.573111   -2193.339

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.985338  106.927865   63.547279
853.265972  215.151706   1012.542
 0.25000   10.985338  107.958398   63.547279
844.082405  161.284639  944.784973
 0.50000   10.985338  118.229666   63.547279
835.069565  109.262492  931.277907
 0.75000   10.985338  130.808361   63.547279
826.236673   63.108172  940.581821
 1.00000   10.985338  145.400858   63.547279
817.582725   22.244294   1003.924

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.461006  -927.270154   -48.960203
-926.142489  -179.888056   -6508.959
 0.25000  -10.461006  -901.489337   -48.960203
-919.223728  -139.162127   -5899.959
 0.50000  -10.461006  -875.496925   -48.960203
-912.460205  -101.348534   -5321.005
 0.75000  -10.461006  -849.796642   -48.960203
-905.844617   -68.404590   -4791.614
 1.00000  -10.461006  -825.033008   -48.960203
-899.367751   -46.299810   -4306.188

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.985338  106.927865   63.547279
853.265972  215.151706   1012.542
 0.25000   10.985338  107.958398   63.547279
844.082405  161.284639  944.784973
 0.50000   10.985338  118.229666   63.547279
835.069565  109.262492  931.277907
 0.75000   10.985338  130.808361   63.547279
826.236673   63.108172  940.581821
 1.00000   10.985338  145.400858   63.547279
817.582725   22.244294   1003.924
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                953

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.461006  -927.270154   -48.960203
-926.142489  -179.888056   -6508.959
 0.25000  -10.461006  -901.489337   -48.960203
-919.223728  -139.162127   -5899.959
 0.50000  -10.461006  -875.496925   -48.960203
-912.460205  -101.348534   -5321.005
 0.75000  -10.461006  -849.796642   -48.960203
-905.844617   -68.404590   -4791.614
 1.00000  -10.461006  -825.033008   -48.960203
-899.367751   -46.299810   -4306.188

 COMB   DESIGN ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.985338  106.927865   63.547279
853.265972  215.151706   1012.542
 0.25000   10.985338  107.958398   63.547279
844.082405  161.284639  944.784973
 0.50000   10.985338  118.229666   63.547279
835.069565  109.262492  931.277907
 0.75000   10.985338  130.808361   63.547279
826.236673   63.108172  940.581821
 1.00000   10.985338  145.400858   63.547279
817.582725   22.244294   1003.924

 COMB   DESIGN ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.461006  -927.270154   -48.960203
-926.142489  -179.888056   -6508.959
 0.25000  -10.461006  -901.489337   -48.960203
-919.223728  -139.162127   -5899.959
 0.50000  -10.461006  -875.496925   -48.960203
-912.460205  -101.348534   -5321.005
 0.75000  -10.461006  -849.796642   -48.960203
-905.844617   -68.404590   -4791.614
 1.00000  -10.461006  -825.033008   -48.960203
-899.367751   -46.299810   -4306.188

 ELEM      64 ================== LENGTH
=    4.958201

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    4.001377   24.342579    0.296530
176.505001   10.692576   210.116040
 0.25000    4.001377   24.749444    0.296530
177.536434   12.710621   184.278790
 0.50000    4.001377   25.302971    0.296530
178.735008   15.203979   169.759163
 0.75000    4.001377   25.910784    0.296530
179.966697   17.893378   263.414148
 1.00000    4.001377   26.551348    0.296530
181.596070   20.676590   369.545261

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -2.598032  -120.223709   -3.289187
-499.512248   -8.150612   -719.749171
 0.25000   -2.598032  -119.536763   -3.289187
-497.857153   -5.776028   -706.958967
 0.50000   -2.598032  -118.870245   -3.289187
-496.638178   -3.692006   -694.831596
 0.75000   -2.598032  -118.241968   -3.289187
-495.408819   -2.824404   -682.739482
 1.00000   -2.598032  -117.670168   -3.289187
-494.159710   -3.022771   -671.213006

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.308659   45.726460    8.861734
279.924201   21.776867   425.330614
 0.25000    5.308659   49.784363    8.861734
289.190407   15.246464   448.748733
 0.50000    5.308659   55.321831    8.861734
299.957244   15.975266   525.582672
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                954

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000    5.308659   61.402270    8.861734
311.019928   18.654775   740.247389
 1.00000    5.308659   67.804898    8.861734
325.662079   21.485152   982.526031

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.470524  -305.453379   -2.662553
-868.494986   -16.987464   -1403.821
 0.25000   -6.470524  -298.584784   -2.662553
-853.618255   -16.920948   -1355.447
 0.50000   -6.470524  -291.918172   -2.662553
-842.661457   -20.729903   -1307.737
 0.75000   -6.470524  -285.633614   -2.662553
-831.610712   -27.793191   -1260.500
 1.00000   -6.470524  -279.913812   -2.662553
-820.381924   -38.116111   -1214.116

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.559543   71.620072    5.662969
224.906455   19.463766   682.905819
 0.25000    7.559543   94.635687    5.662969
223.889276   17.926662   871.171148
 0.50000    7.559543  126.953956    5.662969
223.889276   20.653824   1093.192
 0.75000    7.559543  162.434658    5.662969
223.889276   24.454342   1390.907
 1.00000    7.559543  199.503631    5.662969
223.889276   28.564035   1670.898

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.863684  -614.224530   -4.042133
-662.668417   -30.642386   -1995.096
 0.25000   -7.863684  -574.330114   -4.042133
-662.668417   -29.111026   -1933.848
 0.50000   -7.863684  -535.487876   -4.042133
-664.441836   -30.830194   -1814.593
 0.75000   -7.863684  -498.847974   -4.042133
-666.564455   -34.102627   -1726.949
 1.00000   -7.863684  -465.493765   -4.042133
-668.736689   -39.414974   -1641.496

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.254186   75.082546    5.131437
467.314030   18.340824   716.982915
 0.25000    8.254186   94.013736    5.131437
467.314030   16.827299   873.140735
 0.50000    8.254186  120.591600    5.131437
467.314030   23.074245   1113.833
 0.75000    8.254186  149.766955    5.131437
467.314030   31.597600   1453.464
 1.00000    8.254186  180.249196    5.131437
467.314030   40.527853   1799.301

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.268571  -618.686226   -8.033411
-644.737016  -33.191657   -2187.858
 0.25000   -7.268571  -585.880318   -8.033411
-644.737016  -29.302901   -2089.897
 0.50000   -7.268571  -553.939990   -8.033411
-644.737016  -29.376427   -1993.739
 0.75000   -7.268571  -523.811297   -8.033411
-644.737016  -31.727628   -1898.985
 1.00000   -7.268571  -496.382707   -8.033411
-644.918068  -36.236842   -1806.103

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    2.468874   29.735630    9.475691
83.876576   12.891154   301.180842
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                955

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000    2.468874   42.485718    9.475691
100.951370    3.846865   431.036864
 0.50000    2.468874   60.082667    9.475691
120.779304    0.781001   575.554369
 0.75000    2.468874   79.404241    9.475691
141.130667    0.583702   713.283804
 1.00000    2.468874   99.685475    9.475691
168.166270    0.566427   839.140342

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.304973  -305.157230   -0.136820
-359.662266   -12.616895   -827.616781
 0.25000   -4.304973  -283.372222   -0.136820
-332.149001   -15.865593   -777.535478
 0.50000   -4.304973  -262.201037   -0.136820
-311.874009   -22.268398   -728.602068
 0.75000   -4.304973  -242.238095   -0.136820
-291.437616   -31.150769   -680.508003
 1.00000   -4.304973  -224.066982   -0.136820
-270.649439   -40.891934   -633.499907

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.871159   57.599347    6.325281
169.189806   11.809710   591.894758
 0.25000    5.871159   82.736491    6.325281
169.189806    7.799195   853.312958
 0.50000    5.871159  118.025151    6.325281
169.189806   12.050970   1138.081
 0.75000    5.871159  156.761483    6.325281
169.189806   17.753412   1404.752
 1.00000    5.871159  197.233290    6.325281
169.189806   23.809579   1645.336

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.667527  -599.732298   -5.638717
-194.652866   -30.452328   -1597.826
 0.25000   -6.667527  -556.175220   -5.638717
-194.652866   -29.424464   -1500.360
 0.50000   -6.667527  -513.767518   -5.638717
-194.652866   -32.199942   -1405.244
 0.75000   -6.667527  -473.765379   -5.638717
-194.652866   -37.587307   -1311.837
 1.00000   -6.667527  -437.347587   -5.638717
-194.652866   -43.764954   -1220.544

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    6.907419   71.250742    9.018690
282.753286   16.044767   696.537910
 0.25000    6.907419   94.131162    9.018690
282.753286   13.072152   905.145426
 0.50000    6.907419  126.246634    9.018690
282.753286   17.393411   1182.471
 0.75000    6.907419  161.496472    9.018690
282.753286   23.266625   1507.443
 1.00000    6.907419  198.332455    9.018690
282.753286   29.649415   1823.695

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.947006  -643.411955   -6.055123
-550.494887   -34.155129   -2043.858
 0.25000   -6.947006  -603.774030   -6.055123
-550.494887   -31.763032   -1939.038
 0.50000   -6.947006  -565.182426   -6.055123
-550.494887   -35.305276   -1836.438
 0.75000   -6.947006  -528.780566   -6.055123
-550.494887   -44.354961   -1735.461
 1.00000   -6.947006  -495.638721   -6.055123
-550.494890   -54.069826   -1636.384
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                956

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    6.298485   75.025466    8.198111
529.368179   15.390253   711.399206
 0.25000    6.298485   94.298403    8.198111
529.368179   12.439482   863.592811
 0.50000    6.298485  121.354624    8.198111
529.368179   16.244286   1120.432
 0.75000    6.298485  151.054215    8.198111
529.368179   22.769433   1462.423
 1.00000    6.298485  182.084147    8.198111
529.368179   29.719734   1809.464

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.520015  -621.914994   -6.352139
-552.556286   -30.117770   -2193.205
 0.25000   -6.520015  -588.519232   -6.352139
-552.556286   -28.108676   -2092.945
 0.50000   -6.520015  -556.004760   -6.352139
-552.556286   -31.849567   -1994.681
 0.75000   -6.520015  -525.334661   -6.352139
-552.556286   -40.127950   -1897.765
 1.00000   -6.520015  -497.412721   -6.352139
-552.556286   -48.896458   -1802.434

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    1.829243   23.987968    2.595280
481.766758    8.348280   206.674453
 0.25000    1.829243   24.446155    2.595280
479.708672    5.688806   182.279489
 0.50000    1.829243   25.112980    2.595280
478.192793    3.800492   184.076546
 0.75000    1.829243   25.844946    2.595280
476.665920    3.144202   283.497671
 1.00000    1.829243   26.605496    2.595280
475.115227    2.575676   396.423661

 COMB DB-G3-1 ------------------- MIN
```

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-1.910774	-124.773722	-0.369649
-153.686060		-1.328280	-719.093932	
0.25000		-1.910774	-123.954831	-0.369649
-154.980312		-2.241423	-706.825882	
0.50000		-1.910774	-123.154800	-0.369649
-156.486650		-4.002446	-694.653268	
0.75000		-1.910774	-122.399634	-0.369649
-158.038237		-6.191223	-682.730480	
1.00000		-1.910774	-121.715001	-0.369649
-160.072722		-8.733579	-671.138526	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.635501	45.034152	2.693181
823.578557		10.713012	427.186144	
0.25000		4.635501	49.955774	2.693181
804.482088		8.145050	464.184002	
0.50000		4.635501	57.082895	2.693181
790.416725		13.571750	565.662605	
0.75000		4.635501	64.906444	2.693181
776.250509		21.808169	783.888257	
1.00000		4.635501	73.039685	2.693181
761.863946		30.353641	1026.836	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-3.500823	-319.049541	-7.277504
-253.113303		-14.857413	-1381.191	
0.25000		-3.500823	-310.290916	-7.277504
-265.129785		-11.095973	-1332.828	
0.50000		-3.500823	-301.737978	-7.277504
-279.116727		-10.359769	-1285.161	
0.75000		-3.500823	-293.665428	-7.277504
-293.528878		-10.863946	-1238.277	
1.00000		-3.500823	-286.342730	-7.277504
-312.412072		-12.363542	-1192.056	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.452814	70.488075	3.366487
601.837294		13.425464	676.508099	
0.25000		6.452814	93.732707	3.366487
601.837294		18.357274	869.684141	
0.50000		6.452814	126.324639	3.366487
601.837294		13.772332	1109.768	
0.75000		6.452814	162.109312	3.366487
601.837294		18.594991	1409.907	
1.00000		6.452814	199.506295	3.366487
601.837294		23.783776	1692.207	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.928486	-616.956230	-4.966370
-222.717785		-25.681962	-1966.838	
0.25000		-5.928486	-576.716036	-4.966370
-222.717785		-24.536590	-1876.463	
0.50000		-5.928486	-537.538310	-4.966370
-222.674730		-25.544326	-1788.043	
0.75000		-5.928486	-500.584034	-4.966370
-222.674730		-27.258840	-1701.462	
1.00000		-5.928486	-466.938647	-4.966370
-222.663883		-29.447237	-1616.865	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.211513	74.688551	10.159499
598.702123		17.920758	711.978608	
0.25000		6.211513	93.708754	10.159499
598.702123		12.188098	867.708489	
0.50000		6.211513	120.409385	10.159499
598.702123		13.822496	1112.973	
0.75000		6.211513	149.718148	10.159499
598.702123		18.118261	1452.982	
1.00000		6.211513	180.340142	10.159499
598.702123		22.810313	1798.785	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.832796	-618.524669	-4.566500
-487.401017		-27.637552	-2178.792	
0.25000		-7.832796	-585.568238	-4.566500
-487.401017		-27.101525	-2081.517	
0.50000		-7.832796	-553.481509	-4.566500
-487.401017		-34.426882	-1985.992	
0.75000		-7.832796	-523.214988	-4.566500
-487.401017		-44.659297	-1892.021	
1.00000		-7.832796	-495.660202	-4.566500
-487.401017		-55.446865	-1799.750	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.753772	38.450696	0.384567
261.053322		12.156194	286.236189	
0.25000		7.753772	38.784174	0.384567
261.973967		16.637889	264.274633	
0.50000		7.753772	39.166815	0.384567
262.984185		22.295419	265.245713	
0.75000		7.753772	39.582712	0.384567
264.087539		28.577372	303.690815	
1.00000		7.753772	40.014359	0.384567
265.285322		35.453783	363.865161	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-2.910976	-157.275538	-6.569757
-623.669842		-10.458979	-1355.340	
0.25000		-2.910976	-156.693480	-6.569757
-622.337642		-7.297588	-1206.699	
0.50000		-2.910976	-156.116784	-6.569757
-621.067799		-5.236939	-1075.198	
0.75000		-2.910976	-155.564275	-6.569757
-619.860336		-4.047524	-963.748212	
1.00000		-2.910976	-155.053666	-6.569757
-618.717063		-3.873704	-872.918982	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.591802	70.992176	10.326431
407.548794		21.913481	601.126077	
0.25000		8.591802	73.765776	10.326431
414.091821		18.333958	582.243226	
0.50000		8.591802	76.946999	10.326431
421.285099		20.875461	616.086433	
0.75000		8.591802	80.407735	10.326431
429.136628		25.436302	717.673573	
1.00000		8.591802	83.997482	10.326431
437.668054		30.636643	861.451126	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-8.991551	-376.554584	-5.171106
-1024.216		-22.099054	-2705.025	
0.25000		-8.991551	-371.710310	-5.171106
-1014.714		-23.894253	-2368.565	
0.50000		-8.991551	-366.913579	-5.171106
-1005.654		-31.029680	-2072.643	
0.75000		-8.991551	-362.317641	-5.171106
-997.038716		-40.745009	-1815.695	
1.00000		-8.991551	-358.070346	-5.171106
-988.878803		-52.050268	-1599.133	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		10.453126	113.944395	7.031428
363.982724		21.563405	962.606388	
0.25000		10.453126	132.635583	7.031428
358.694302		21.334490	1026.923	
0.50000		10.453126	154.098956	7.031428
353.719979		25.290643	1126.417	
0.75000		10.453126	177.437205	7.031428
349.068520		30.592727	1265.115	
1.00000		10.453126	201.674487	7.031428
344.755666		36.647280	1419.987	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.254285	-691.173798	-6.472431
-825.292923		-41.923300	-3951.296	
0.25000		-10.254285	-658.392112	-6.472431
-829.634397		-41.538089	-3426.698	
0.50000		-10.254285	-625.933407	-6.472431
-834.379168		-44.806424	-2965.882	
0.75000		-10.254285	-594.821169	-6.472431
-839.517607		-49.865774	-2561.780	
1.00000		-10.254285	-566.132246	-6.472431
-845.050995		-56.150613	-2213.779	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		11.260964	116.697613	6.411044
616.970734		21.329487	1004.028	
0.25000		11.260964	132.079727	6.411044
613.327272		21.063319	1049.011	
0.50000		11.260964	149.742871	6.411044
609.908363		28.117334	1154.367	
0.75000		11.260964	168.948895	6.411044
606.722429		37.664372	1319.091	
1.00000		11.260964	188.891139	6.411044
603.778886		48.424072	1514.786	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.247161	-711.052682	-10.482742
-812.007705		-45.861954	-4264.706	
0.25000		-9.247161	-684.076009	-10.482742
-815.086813		-40.807567	-3698.597	
0.50000		-9.247161	-657.365132	-10.482742
-818.445065		-41.909623	-3201.516	
0.75000		-9.247161	-631.769457	-10.482742
-822.080694		-45.666167	-2766.997	
1.00000		-9.247161	-608.152972	-10.482742
-825.989364		-50.901137	-2394.583	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		2.346720	47.779817	10.781568
120.383160		10.971689	427.783365	
0.25000		2.346720	58.242352	10.781568
136.798935		3.820362	475.073930	
0.50000		2.346720	70.242937	10.781568
154.844997		1.223269	531.550368	
0.75000		2.346720	83.292567	10.781568
174.554551		0.762911	596.237195	
1.00000		2.346720	96.842963	10.781568
195.975709		0.667915	662.057998	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.441677	-329.690132	-0.174839
-383.488845		-17.813452	-1642.238	
0.25000		-7.441677	-311.402544	-0.174839
-359.479413		-23.484466	-1406.125	
0.50000		-7.441677	-293.287608	-0.174839
-336.908478		-33.043549	-1216.525	
0.75000		-7.441677	-275.934529	-0.174839
-314.851724		-44.630529	-1015.646	
1.00000		-7.441677	-259.902425	-0.174839
-294.180922		-56.542358	-854.188994	

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.317171	92.998055	6.904870
203.504493		12.654504	841.597980	
0.25000		6.317171	113.904706	6.904870
203.504493		9.508370	938.614806	
0.50000		6.317171	137.905117	6.904870
203.504493		12.567827	1052.557	
0.75000		6.317171	164.001744	6.904870
203.504493		17.604737	1181.199	
1.00000		6.317171	191.098688	6.904870
203.504493		23.425950	1310.925	

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-8.795810	-650.877337	-5.915464
-232.442141		-43.332587	-3201.039	
0.25000		-8.795810	-614.228598	-5.915464
-232.442141		-42.299124	-2737.910	
0.50000		-8.795810	-577.923107	-5.915464
-232.442141		-46.164540	-2333.009	
0.75000		-8.795810	-543.146840	-5.915464
-232.442141		-52.328980	-1973.020	
1.00000		-8.795810	-511.068806	-5.915464
-232.442141		-59.122664	-1657.237	

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.123542	111.406087	9.553827
375.634895		18.865657	980.121517	
0.25000		8.123542	130.499614	9.553827
375.634895		15.243436	1052.504	
0.50000		8.123542	152.416936	9.553827
375.634895		18.320732	1171.535	
0.75000		8.123542	176.248475	9.553827
375.634895		23.408894	1329.156	
1.00000		8.123542	200.993496	9.553827
375.634895		29.417202	1501.872	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.941889	-724.830750	-6.796688
-675.255775		-46.767500	-4067.300	
0.25000		-9.941889	-691.361423	-6.796688
-674.630862		-45.178415	-3535.590	
0.50000		-9.941889	-658.209913	-6.796688
-674.005950		-50.905252	-3043.157	
0.75000		-9.941889	-626.453257	-6.796688
-673.381037		-59.565374	-2632.109	
1.00000		-9.941889	-597.158020	-6.796688
-672.756125		-68.899390	-2275.642	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.631454	115.023224	8.984183
668.366702		19.375062	994.550992	
0.25000		7.631454	131.167187	8.984183
668.366702		15.578105	1043.957	
0.50000		7.631454	149.700130	8.984183
668.366702		18.697910	1160.634	
0.75000		7.631454	169.851755	8.984183
668.366702		24.149832	1328.494	
1.00000		7.631454	190.775818	8.984183
668.366702		30.333203	1520.363	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.169641	-717.281539	-6.809274
-696.305071		-41.387019	-4306.587	
0.25000		-9.169641	-688.980125	-6.809274
-696.305071		-39.542340	-3753.851	
0.50000		-9.169641	-660.946834	-6.809274
-696.305071		-45.175543	-3246.637	
0.75000		-9.169641	-634.092854	-6.809274
-696.305071		-53.368734	-2822.199	
1.00000		-9.169641	-609.322430	-6.809274
-696.305071		-62.119079	-2457.837	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		1.761328	37.276842	4.533117
591.723591		13.247228	281.117715	
0.25000		1.761328	37.681828	4.533117
590.067110		9.019448	261.699119	
0.50000		1.761328	38.149031	4.533117
588.489964		6.043732	270.483551	
0.75000		1.761328	38.656844	4.533117
586.995081		4.386457	314.516811	
1.00000		1.761328	39.185171	4.533117
585.582296		3.738596	380.186720	

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-3.067968	-161.096533	-0.456219
-221.987939		-2.370594	-1346.989	
0.25000		-3.067968	-160.381034	-0.456219
-223.159851		-3.574002	-1196.679	
0.50000		-3.067968	-159.672140	-0.456219
-224.445360		-5.877654	-1064.879	
0.75000		-3.067968	-158.993268	-0.456219
-225.848123		-9.325923	-954.031277	
1.00000		-3.067968	-158.369434	-0.456219
-227.370257		-13.909100	-864.290595	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.077797	68.997384	4.460015
946.023319		16.736542	595.641470	
0.25000		6.077797	72.667419	4.460015
933.490379		13.707960	586.641396	
0.50000		6.077797	76.894813	4.460015
921.564172		17.033538	632.624524	
0.75000		6.077797	81.492017	4.460015
910.255651		23.730291	740.790679	
1.00000		6.077797	86.273525	4.460015
899.575961		32.611263	887.870166	

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.416960	-385.051123	-8.827742
-353.045551		-23.044089	-2651.258	
0.25000		-4.416960	-378.577784	-8.827742
-361.928149		-16.528972	-2320.273	
0.50000		-4.416960	-372.167968	-8.827742
-371.679426		-14.554454	-2031.486	
0.75000		-4.416960	-366.024752	-8.827742
-382.314502		-15.310114	-1782.211	
1.00000		-4.416960	-360.376022	-8.827742
-393.851923		-18.464069	-1568.745	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.046507	110.629903	5.341969
746.035155		19.145736	941.223928	
0.25000		7.046507	129.542949	5.341969
748.590843		16.018889	1010.663	
0.50000		7.046507	151.247598	5.341969
751.422657		16.814752	1117.553	
0.75000		7.046507	174.847667	5.341969
754.549692		20.220881	1259.384	
1.00000		7.046507	199.352307	5.341969
757.987832		25.254604	1415.076	

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-8.068793	-684.878724	-5.675377
-344.212156		-37.464293	-3843.280	
0.25000		-8.068793	-651.727497	-5.675377
-339.620760		-35.449446	-3328.585	
0.50000		-8.068793	-618.913878	-5.675377
-335.185020		-36.360192	-2877.704	
0.75000		-8.068793	-587.468578	-5.675377
-330.897786		-39.223311	-2483.216	
1.00000		-8.068793	-558.456762	-5.675377
-326.757473		-43.523803	-2144.193	

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.907811	115.739651	12.099428
764.315987		23.348212	996.096372	
0.25000		6.907811	131.285319	12.099428
765.871675		16.388603	1041.639	
0.50000		6.907811	149.126618	12.099428
767.598184		16.474298	1150.792	
0.75000		6.907811	168.526001	12.099428
769.513504		19.391651	1316.702	
1.00000		6.907811	188.668954	12.099428
771.630965		23.754850	1512.022	

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.800934	-709.776743	-5.245673
-645.017225		-38.935088	-4266.242	
0.25000		-10.800934	-682.525561	-5.245673
-642.024574		-39.766864	-3714.450	
0.50000		-10.800934	-655.551781	-5.245673
-639.122255		-48.523522	-3230.291	
0.75000		-10.800934	-629.703926	-5.245673
-636.305398		-59.896765	-2807.320	
1.00000		-10.800934	-605.855371	-5.245673
-633.569871		-72.526904	-2444.764	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.254186	75.082546	10.159499
823.578557		21.776867	716.982915	
0.25000		8.254186	94.635687	10.159499
804.482088		17.928662	905.145426	
0.50000		8.254186	126.953956	10.159499
790.416725		23.074245	1182.471	
0.75000		8.254186	162.434658	10.159499
776.250509		31.597600	1507.443	
1.00000		8.254186	199.506295	10.159499
761.863946		40.527853	1823.695	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.863684	-643.411955	-8.033411
-868.494986		-34.155129	-2193.205	
0.25000		-7.863684	-603.774030	-8.033411
-853.618255		-31.763032	-2092.945	
0.50000		-7.863684	-565.182426	-8.033411
-842.661457		-35.305278	-1994.681	
0.75000		-7.863684	-528.780566	-8.033411
-831.610712		-44.659297	-1898.985	
1.00000		-7.863684	-497.412721	-8.033411
-820.381924		-55.446865	-1806.103	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		11.260964	116.697613	12.099428
946.023319		23.348212	1004.028	
0.25000		11.260964	132.635583	12.099428
933.490379		21.334490	1052.504	
0.50000		11.260964	154.098956	12.099428
921.564172		28.117334	1171.535	
0.75000		11.260964	177.437205	12.099428
910.255651		37.664372	1329.156	
1.00000		11.260964	201.674487	12.099428
899.575961		48.424072	1520.363	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.800934	-724.830750	-10.482742
-1024.216		-46.767500	-4306.587	
0.25000		-10.800934	-691.361423	-10.482742
-1014.714		-45.178415	-3753.851	
0.50000		-10.800934	-660.946834	-10.482742
-1005.654		-50.905252	-3246.637	
0.75000		-10.800934	-634.092854	-10.482742
-997.038716		-59.896765	-2822.199	
1.00000		-10.800934	-609.322430	-10.482742
-988.878803		-72.526904	-2457.837	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		11.260964	116.697613	12.099428
946.023319		23.348212	1004.028	
0.25000		11.260964	132.635583	12.099428
933.490379		21.334490	1052.504	
0.50000		11.260964	154.098956	12.099428
921.564172		28.117334	1182.471	
0.75000		11.260964	177.437205	12.099428
910.255651		37.664372	1507.443	
1.00000		11.260964	201.674487	12.099428
899.575961		48.424072	1823.695	

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.800934	-724.830750	-10.482742
-1024.216		-46.767500	-4306.587	
0.25000		-10.800934	-691.361423	-10.482742
-1014.714		-45.178415	-3753.851	
0.50000		-10.800934	-660.946834	-10.482742
-1005.654		-50.905252	-3246.637	
0.75000		-10.800934	-634.092854	-10.482742
-997.038716		-59.896765	-2822.199	
1.00000		-10.800934	-609.322430	-10.482742
-988.878803		-72.526904	-2457.837	

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		11.260964	116.697613	12.099428
946.023319		23.348212	1004.028	
0.25000		11.260964	132.635583	12.099428
933.490379		21.334490	1052.504	
0.50000		11.260964	154.098956	12.099428
921.564172		28.117334	1182.471	
0.75000		11.260964	177.437205	12.099428
910.255651		37.664372	1507.443	
1.00000		11.260964	201.674487	12.099428
899.575961		48.424072	1823.695	

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.800934	-724.830750	-10.482742
-1024.216		-46.767500	-4306.587	
0.25000		-10.800934	-691.361423	-10.482742
-1014.714		-45.178415	-3753.851	
0.50000		-10.800934	-660.946834	-10.482742
-1005.654		-50.905252	-3246.637	
0.75000		-10.800934	-634.092854	-10.482742
-997.038716		-59.896765	-2822.199	
1.00000		-10.800934	-609.322430	-10.482742
-988.878803		-72.526904	-2457.837	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 65 ========== LENGTH = 4.957300

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.946877	24.981826	3.376233
63.526331		23.898685	371.157692	
0.25000		3.946877	25.485609	3.376233
64.725516		20.726823	449.905960	
0.50000		3.946877	26.057308	3.376233
65.934449		17.932960	541.281067	
0.75000		3.946877	26.660084	3.376233
67.161128		15.466877	642.672707	
1.00000		3.946877	27.336504	3.376233
68.830792		13.228838	750.350246	

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-2.785148	-111.378109	-0.744678
-492.197577		-5.828939	-671.724522	
0.25000		-2.785148	-110.713494	-0.744678
-490.522875		-4.910637	-647.763132	

```
 0.50000    -2.785148  -110.070332    -0.744678
-489.286774    -3.992335  -623.829006
 0.75000    -2.785148  -109.467440    -0.744678
-488.051841    -3.078782  -600.013527
 1.00000    -2.785148  -108.922841    -0.744678
-486.810112    -2.251477  -576.287902

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.381336   62.542267    3.431104
131.498564   25.417523  984.817924
 0.25000    5.381336   67.581680    3.431104
142.278154   22.288564   1115.520
 0.50000    5.381336   73.297464    3.431104
153.146512   19.519027   1271.496
 0.75000    5.381336   79.523798    3.431104
164.175892   17.745133   1459.844
 1.00000    5.381336   86.084314    3.431104
179.193571   17.714759   1668.407

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.614375  -267.188604   -3.637820
-852.193172   -41.210782   -1214.873
 0.25000   -6.614375  -260.545931   -3.637820
-837.126143   -36.755216   -1167.092
 0.50000   -6.614375  -254.115425   -3.637820
-826.002582   -32.300467   -1119.351
 0.75000   -6.614375  -248.087286   -3.637820
-814.889865   -27.850914   -1071.788
 1.00000   -6.614375  -242.642089   -3.637820
-803.716947   -24.261757   -1024.403

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.898120  126.342423    3.467556
 91.701235   33.159388   1672.696
 0.25000    7.898120  155.702876    3.467556
 91.701235   31.054230   1931.813
 0.50000    7.898120  188.874117    3.467556
 91.701235   29.969398   2168.482
 0.75000    7.898120  225.002067    3.467556
 91.701235   30.062183   2387.337
 1.00000    7.898120  262.953321    3.467556
 91.701235   31.933886   2584.644

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.349383  -534.678260   -5.569187
-647.758779   -43.027863   -1642.084
 0.25000   -8.349383  -496.238004   -5.569187
-649.779680   -38.149243   -1573.934
 0.50000   -8.349383  -458.905901   -5.569187
-651.405667   -33.273118   -1505.832
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                964

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   -8.349383  -423.895473   -5.569187
-653.416290   -28.413320   -1438.090
 1.00000   -8.349383  -392.277541   -5.569187
-656.411073   -24.409589   -1370.600

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.504678  125.486672    4.194910
351.841365   44.294896   1799.997
 0.25000    8.504678  149.631097    4.194910
351.841365   40.935175   2051.486
 0.50000    8.504678  176.909357    4.194910
351.841365   38.443850   2299.766
 0.75000    8.504678  206.619554    4.194910
351.841365   36.896251   2555.534
 1.00000    8.504678  237.829413    4.194910
351.841365   36.913975   2812.093

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.743289  -534.595131   -5.316518
-586.752557   -35.194182   -1806.294
 0.25000   -7.743289  -502.983231   -5.316518
-586.752557   -35.194182   -1731.620
 0.50000   -7.743289  -472.283111   -5.316518
-586.752557   -30.881094   -1657.000
 0.75000   -7.743289  -443.492700   -5.316518
-587.294443   -26.577991   -1582.720
 1.00000   -7.743289  -417.490390   -5.316518
-587.998121   -23.003019   -1508.646

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.721181   63.27792     0.178643
 71.091865   0.272218   839.760820
 0.25000    2.721181   79.287498    0.178643
 91.039449   0.643111   942.634829
 0.50000    2.721181   97.410386    0.178643
111.163987   2.447481   1031.478
 0.75000    2.721181  117.150841    0.178643
131.607331   4.774591   1114.591
 1.00000    2.721181  137.925133    0.178643
159.512446   8.503488   1187.837

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.446250  -260.872868   -3.895320
-351.777505   -40.911922  -633.659379
 0.25000   -4.446250  -239.835395   -3.895320
-323.727867   -36.743506  -604.892646
 0.50000   -4.446250  -219.443398   -3.895320
-302.986219   -32.575089  -576.136645
 0.75000   -4.446250  -200.324351   -3.895320
-282.269112   -28.408283  -547.531554
 1.00000   -4.446250  -183.055134   -3.895320
-261.452320   -24.253029  -519.061658

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.283872  125.171783    1.621086
155.550296   24.891965   1645.305
 0.25000    6.283872  157.229114    1.621086
155.550296   24.381454   1848.421
 0.50000    6.283872  193.447356    1.621086
155.550296   24.737743   2021.462
 0.75000    6.283872  232.894732    1.621086
155.550296   26.131161   2179.536
 1.00000    6.283872  274.333369    1.621086
155.550296   29.457752   2315.916

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.059596  -511.837475   -5.946362
-178.823189    -44.446645    -1220.474
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                965

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -7.059596  -469.865072   -5.946362
-178.823189   -39.755168   -1165.317
 0.50000   -7.059596  -429.103447   -5.946362
-178.823189   -35.086203   -1110.198
 0.75000   -7.059596  -390.877578   -5.946362
-178.823189   -30.422819   -1055.396
 1.00000   -7.059596  -356.352954   -5.946362
-178.823189   -25.776972   -1000.777

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.244065  131.184810    2.516406
183.919776   33.443471   1824.809
 0.25000    7.244065  160.358510    2.516406
183.919776   31.903617   2070.186
 0.50000    7.244065  193.318892    2.516406
183.919776   31.168849   2296.845
 0.75000    7.244065  229.218435    2.516406
183.919776   31.411816   2520.692
 1.00000    7.244065  266.930437    2.516406
183.919776   33.217781   2734.743

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.369095  -552.309543   -6.465089
-530.326957   -54.689886   -1636.700
 0.25000   -7.369095  -514.111895   -6.465089
-530.312053   -49.154801   -1566.508
 0.50000   -7.369095  -477.016619   -6.465089
-530.202894   -43.627482   -1496.356
 0.75000   -7.369095  -442.229503   -6.465089
-530.112888   -38.116838   -1426.537
 1.00000   -7.369095  -410.808957   -6.465089
-530.077701   -32.622469   -1356.888

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.654697  124.335497    2.581838
441.522199   32.724785   1809.400
 0.25000    6.654697  148.914221    2.581838
441.522199   30.883457   2066.133
 0.50000    6.654697  176.683163    2.581838
441.522199   29.753443   2314.062
 0.75000    6.654697  206.927919    2.581838
441.522199   29.456140   2568.605
 1.00000    6.654697  238.699398    2.581838
441.522199   30.486957   2823.431

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.944600  -536.522333   -5.895581
-468.118438   -48.828868   -1802.366
 0.25000   -6.944600  -504.341611   -5.895581
-468.118438   -45.143345   -1727.292
 0.50000   -6.944600  -473.089204   -5.895581
-468.118438   -40.219779   -1652.289
 0.75000   -6.944600  -443.780991   -5.895581
-468.118438   -35.434224   -1577.584
 1.00000   -6.944600  -417.310565   -5.895581
-468.118438   -30.674699   -1503.048

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.007931   25.114635    1.234760
472.879072    3.978615   394.724202
 0.25000    2.007931   25.713830    1.234760
470.830265    3.051600   474.877819
 0.50000    2.007931   26.394155    1.234760
469.324195    2.124620   568.370756
 0.75000    2.007931   27.135012    1.234760
467.818751    1.198368   673.027999
 1.00000    2.007931   27.910630    1.234760
466.302707    1.990820   785.253479
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                966

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.097239  -115.705670   -1.010385
-55.499077    -8.174157  -670.618374
 0.25000   -2.097239  -114.919750   -1.010385
-56.988516    -8.172211  -646.407419
 0.50000   -2.097239  -114.153777   -1.010385
-58.467338    -8.492387  -622.196486
 0.75000   -2.097239  -113.435146   -1.010385
-60.004558    -9.202193  -598.287754
 1.00000   -2.097239  -112.788947   -1.010385
-62.056911   -10.200057  -574.266775

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.785617   65.387792    3.182078
807.615981   29.919407   1024.366
 0.25000    4.785617   71.801659    3.182078
788.629060   26.463540   1159.817
 0.50000    4.785617   79.079081    3.182078
774.676186   23.166486   1317.008
 0.75000    4.785617   87.004199    3.182078
760.728553   19.921393   1503.082
 1.00000    4.785617   95.304974    3.182078
746.681077   18.070828   1707.321

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.827482  -278.446300   -2.392739
-130.300886   -13.087528   -1191.259
 0.25000   -3.827482  -270.035725   -2.392739
-144.119738   -12.283779   -1144.397
 0.50000   -3.827482  -261.842569   -2.392739
-158.023763   -11.491259   -1097.698
 0.75000   -3.827482  -254.156249   -2.392739
-172.095948   -10.772819   -1051.133
 1.00000   -3.827482  -247.240520   -2.392739
-191.122573   -11.465690   -1004.608

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.954330  126.611008    2.270444
590.129587   24.436144   1690.241
 0.25000    6.954330  156.228540    2.270444
590.129587   23.455372   1948.998
 0.50000    6.954330  189.690398    2.270444
590.129587   23.277723   2184.570
 0.75000    6.954330  226.136475    2.270444
590.129587   23.983741   2402.524
 1.00000    6.954330  264.422804    2.270444
590.129587   26.224648   2599.273

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.480934  -536.900889   -5.003256
-111.524100   -30.760537   -1616.189
 0.25000   -6.480934  -498.121599   -5.003256
-110.802561   -27.861126   -1548.986
 0.50000   -6.480934  -460.461803   -5.003256
-110.121735   -24.972421   -1481.930
 0.75000   -6.480934  -425.145628   -5.003256
-109.460740   -22.121836   -1415.180
 1.00000   -6.480934  -393.246038   -5.003256
-108.851819   -20.432021   -1348.594

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.681058  124.941845    2.277236
534.860205   24.864785   1797.951
 0.25000    6.681058  149.197387    2.277236
534.860205   23.601484   2051.221
 0.50000    6.681058  176.601208    2.277236
534.860205   23.021259   2300.101
 0.75000    6.681058  206.448363    2.277236
534.860205   23.266595   2556.324
 1.00000    6.681058  237.802215    2.277236
534.860205   25.469407   2812.647
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                967

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.247086  -535.026026   -6.503918
-384.505334   -56.385340   -1799.463
 0.25000   -8.247086  -503.268337   -6.503918
-384.505334   -51.058276   -1724.847
 0.50000   -8.247086  -472.426826   -6.503918
-384.505334   -45.754905   -1650.362
 0.75000   -8.247086  -443.504020   -6.503918
-384.505334   -40.468669   -1576.164
 1.00000   -8.247086  -417.381424   -6.503918
-384.505335   -36.144100   -1502.123

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.768622   35.098834    4.925967
127.400547   39.486275  365.299105
 0.25000    7.768622   35.463175    4.925967
128.351143   33.965782  418.150708
 0.50000    7.768622   35.874580    4.925967
129.583293   28.591743  491.290958
 0.75000    7.768622   36.318113    4.925967
130.496040   23.454394  586.524214
 1.00000    7.768622   36.774609    4.925967
131.690085   18.592552  726.798527

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.096597  -149.849576   -0.927883
-598.536398    -7.491922  -872.304036
 0.25000   -3.096597  -149.310166   -0.927883
-597.181665    -6.448252  -781.930523
 0.50000   -3.096597  -148.777167   -0.927883
-595.913966    -5.474125  -714.366849
 0.75000   -3.096597  -148.269207   -0.927883
-594.716482    -4.591485  -672.114240
 1.00000   -3.096597  -147.803069   -0.927883
-593.595568    -3.957771  -685.659253

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.747519   84.762111    4.710321
231.376548   35.463714  863.459212
 0.25000    8.747519   87.793844    4.710321
238.149197   30.397200  943.057687
 0.50000    8.747519   91.215655    4.710321
245.500641   25.686439   1065.804
 0.75000    8.747519   94.904181    4.710321
253.439726   21.813886   1241.782
 1.00000    8.747519   98.700569    4.710321
261.938631   19.312988   1504.144

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.177290  -320.185174   -5.365589
-969.702063   -55.486037   -1598.162
 0.25000   -9.177290  -315.699780   -5.365589
-960.072723   -49.166511   -1420.007
 0.50000   -9.177290  -311.267776   -5.365589
-950.979462   -42.985233   -1283.838
 0.75000   -9.177290  -307.044193   -5.365589
-942.427442   -37.837475   -1195.224
 1.00000   -9.177290  -303.167582   -5.365589
-934.421762   -32.321047   -1213.498

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.860072  151.485864    4.826652
209.249224   41.268739   1421.653
 0.25000   10.860072  171.912484    4.826652
204.328402   37.098434   1583.789
 0.50000   10.860072  194.992378    4.826652
199.752008   34.017932   1767.164
 0.75000   10.860072  219.877842    4.826652
195.509844   32.099313   1980.818
 1.00000   10.860072  245.476403    4.826652
191.595974   31.693144   2274.319
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                968

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.724865  -569.612878   -7.292798
-781.411504   -58.913815   -2213.015
 0.25000  -10.724865  -539.392526   -7.292798
-785.612802   -51.784163   -1951.931
 0.50000  -10.724865  -509.526889   -7.292798
-790.127496   -45.234733   -1750.296
 0.75000  -10.724865  -481.069155   -7.292798
-794.958505   -39.135035   -1621.017
 1.00000  -10.724865  -454.958417   -7.292798
-800.119811   -34.027924   -1638.408

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.593564  154.041836    5.608780
467.483018   52.756349   1515.523
 0.25000   11.593564  170.852862    5.608780
464.146881   47.449000   1671.462
 0.50000   11.593564  189.846383    5.608780
461.053820   43.093206   1867.078
 0.75000   11.593564  210.325856    5.608780
458.195897   39.857820   2114.222
 1.00000   11.593564  231.392124    5.608780
455.566096   38.014963   2458.779

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.694418  -581.260647   -6.856454
-722.448502   -53.513188   -2394.275
 0.25000   -9.694418  -556.390597   -6.856454
-725.395270   -46.952205   -2114.310
 0.50000   -9.694418  -531.812363   -6.856454
-728.557763   -40.931325   -1898.847
 0.75000   -9.694418  -508.392910   -6.856454
-731.937270   -35.447401   -1761.698
 1.00000   -9.694418  -486.903905   -6.856454
-735.544866   -30.923691   -1782.155

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.595720   73.707508    0.195143
 97.442134   0.282767   662.483616
 0.25000    2.595720   85.138307    0.195143
114.482260   0.472499   724.346126
 0.50000    2.595720   98.044761    0.195143
133.007882   1.854619   790.585068
 0.75000    2.595720  111.964992    0.195143
152.968608   3.872436   868.749395
 1.00000    2.595720  126.283795    0.195143
174.397392   6.746639   973.715611

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.492011  -259.678058   -5.695707
-358.810076   -55.349314   -853.901408
 0.25000   -7.492011  -242.765423   -5.695707
-334.400174   -48.791387   -745.615961
 0.50000   -7.492011  -226.057104   -5.695707
-311.402385   -42.713379   -660.402875
 0.75000   -7.492011  -210.129206   -5.695707
-289.720086   -37.025051   -604.570286
 1.00000   -7.492011  -195.513006   -5.695707
-269.398337   -31.796390   -606.989202

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.748772  145.633899    1.787262
179.898524   23.725236   1310.927
 0.25000    6.748772  168.482501    1.787262
179.898524   23.131440   1434.331
 0.50000    6.748772  194.291027    1.787262
179.898524   23.576609   1565.250
 0.75000    6.748772  222.118956    1.787262
179.898524   25.172388   1718.501
 1.00000    6.748772  250.744153    1.787262
179.898524   28.046627   1920.787
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                969

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.183570  -510.990125   -7.520996
-204.031658   -57.864372   -1657.227
 0.25000   -9.183570  -477.180762   -7.520996
-204.031658   -50.627725   -1447.129
 0.50000   -9.183570  -443.795175   -7.520996
-204.031658   -44.443964   -1282.448
 0.75000   -9.183570  -411.971142   -7.520996
-204.031658   -38.514440   -1176.292
 1.00000   -9.183570  -382.764253   -7.520996
-204.031658   -33.102170   -1181.773

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.510237  156.892559    2.862318
254.562135   33.487755   1502.899
 0.25000    8.510237  177.760015    2.862318
254.562214   31.621580   1655.743
 0.50000    8.510237  201.328630    2.862318
254.562397   30.754718   1833.721
 0.75000    8.510237  226.741461    2.862318
254.562403   30.895594   2049.620
 1.00000    8.510237  252.882344    2.862318
254.562740   32.058223   2343.831

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.304083  -581.177986   -7.981265
-623.802991   -70.059821   -2275.509
 0.25000   -10.304083  -550.302122   -7.981265
-623.111077   -62.363050   -2021.561
 0.50000   -10.304083  -519.813627   -7.981265
-622.391795   -55.252074   -1822.757
 0.75000   -10.304083  -490.751183   -7.981265
-621.654206   -48.582262   -1695.328
 1.00000   -10.304083  -464.077154   -7.981265
-620.907238   -42.313294   -1695.402

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.980478  151.622505    3.409910
548.386908   34.474680   1520.340
 0.25000    7.980478  169.266268    3.409910
548.386908   31.664469   1683.524
 0.50000    7.980478  189.195424    3.409910
548.386908   29.751984   1883.138
 0.75000    7.980478  210.683948    3.409910
548.386908   28.873928   2129.889
 1.00000    7.980478  232.788117    3.409910
548.386908   29.275789   2467.451

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.526664  -583.988980   -7.287411
-576.869560   -63.673031   -2458.108
 0.25000   -9.526664  -557.881636   -7.287411
-576.869560   -56.616251   -2186.321
 0.50000   -9.526664  -532.101529   -7.287411
-576.869560   -50.079682   -1975.882
 0.75000   -9.526664  -507.527243   -7.287411
-576.869560   -44.086582   -1839.744
 1.00000   -9.526664  -484.973896   -7.287411
-576.869560   -38.857941   -1851.050

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    1.951136   34.971378    1.808302
565.089295    5.164792   378.755293
 0.25000    1.951136   35.413545    1.808302
563.429856    3.803158   434.288507
 0.50000    1.951136   35.915475    1.808302
561.866832    2.523957   511.900817
 0.75000    1.951136   36.457460    1.808302
560.398917    1.544151   612.642193
 1.00000    1.951136   37.014398    1.808302
559.027099    2.152145   755.022981
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                970

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.231032  -153.266488   -1.344755
-103.540646   -14.169849   -864.939253
 0.25000   -3.231032  -152.609126   -1.344755
-104.739375   -13.388508   -774.555239
 0.50000   -3.231032  -151.960137   -1.344755
-106.039089   -12.926846   -708.489675
 0.75000   -3.231032  -151.341378   -1.344755
```

```
-107.439856  -13.098600 -670.178913
 1.00000    -3.231032 -150.775699    -1.344755
-108.941792   -14.285881  -682.585735

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.294237   86.018463    4.031134
897.637535   33.763200  885.869612
 0.25000    6.294237   90.024884    4.031134
885.092083   30.040840  970.394415
 0.50000    6.294237   94.571771    4.031134
873.277791   26.478076  1097.361
 0.75000    6.294237   99.475525    4.031134
862.188293   23.365664  1276.432
 1.00000    6.294237  104.517540    4.031134
851.825313   21.797201  1533.066

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.716120 -325.644567   -2.797981
-201.566162   -19.098244  -1569.663
 0.25000   -4.716120 -319.695668   -2.797981
-210.643314   -17.456042  -1398.242
 0.50000   -4.716120 -313.818944   -2.797981
-220.493884   -15.992268  -1268.771
 0.75000   -4.716120 -308.216372   -2.797981
-231.103997   -15.416792  -1189.414
 1.00000   -4.716120 -303.091162   -2.797981
-242.480614   -16.077226  -1203.940

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.554551   149.599982    3.236068
704.292466   26.427394  1413.431
 0.25000    7.554551   170.271229    3.236068
707.191744   24.590271  1576.450
 0.50000    7.554551   193.611839    3.236068
710.378778   23.731158  1760.340
 0.75000    7.554551   218.778530    3.236068
713.845067   23.088934  1974.099
 1.00000    7.554551   244.662928    3.236068
717.587408   25.979489  2260.306

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.574330 -564.179435   -6.181714
-207.118212   -43.277764  -2144.953
 0.25000   -8.574330 -533.611989   -6.181714
-202.085384   -38.464286  -1890.950
 0.50000   -8.574330 -503.417208   -6.181714
-197.275754   -34.266648  -1696.260
 0.75000   -8.574330 -474.634753   -6.181714
-192.694532   -31.022111  -1575.591
 1.00000   -8.574330 -448.211685   -6.181714
-188.356268   -29.117037  -1592.187

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.383848   152.895483    3.125075
667.453960   26.763640  1511.351
 0.25000    7.383848   169.886142    3.125075
669.031606   24.775801  1669.641
 0.50000    7.383848   189.071903    3.125075
671.040462   23.626205  1867.424
 0.75000    7.383848   209.759103    3.125075
673.234462   23.520805  2115.708
 1.00000    7.383848   231.036038    3.125075
675.604727   25.250611  2458.917
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                    Page
<           MOVING          LOAD          >
                    971

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.190432  -581.278071   -8.120791
-505.568777   -73.136400  -2445.254
 0.25000  -11.190432  -556.153347   -8.120791
-502.219599   -65.493579  -2171.666
 0.50000  -11.190432  -531.333528   -8.120791
-499.005710   -58.377485  -1960.428
 0.75000  -11.190432  -507.674626   -8.120791
-495.937303   -53.185689  -1811.904
 1.00000  -11.190432  -485.956248   -8.120791
-493.024813   -47.088453  -1825.541

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.504678   131.184810    4.194910
807.615981   44.294896  1824.809
 0.25000    8.504678   160.358510    4.194910
788.629060   40.935175  2070.186
 0.50000    8.504678   193.447356    4.194910
774.676186   38.443850  2314.062
 0.75000    8.504678   232.894732    4.194910
760.728553   36.896251  2568.605
 1.00000    8.504678   274.333369    4.194910
746.681077   36.913975  2823.431

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.349383 -552.309543   -6.503918
-852.193172   -56.385340  -1806.294
 0.25000   -8.349383 -514.111895   -6.503918
-837.126143   -51.058276  -1731.620
 0.50000   -8.349383 -477.016619   -6.503918
-826.002582   -45.754905  -1657.000
 0.75000   -8.349383 -443.780991   -6.503918
-814.889865   -40.468669  -1582.720
 1.00000   -8.349383 -417.490390   -6.503918
-803.716947   -36.144100  -1508.646

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.593564   156.892559    5.608780
897.637535   52.756349  1520.340
 0.25000   11.593564   177.760015    5.608780
885.092083   47.449000  1684.524
 0.50000   11.593564   201.328630    5.608780
873.277791   43.093206  1883.138
 0.75000   11.593564   226.741461    5.608780
862.188293   39.857820  2129.889
 1.00000   11.593564   252.882344    5.608780
851.825313   38.014963  2467.451

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.190432  -583.988980   -8.120791
-969.702063   -73.136400  -2458.108
 0.25000  -11.190432  -557.881636   -8.120791
-960.072723   -65.493579  -2186.321
 0.50000  -11.190432  -532.101529   -8.120791
-950.979462   -58.377485  -1975.882
 0.75000  -11.190432  -508.392910   -8.120791
-942.427442   -52.085689  -1839.744
 1.00000  -11.190432  -486.903905   -8.120791
-934.421762   -47.088453  -1851.050

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.593564   156.892559    5.608780
897.637535   52.756349  1824.809
 0.25000   11.593564   177.760015    5.608780
885.092083   47.449000  2070.186
 0.50000   11.593564   201.328630    5.608780
873.277791   43.093206  2314.062
 0.75000   11.593564   232.894732    5.608780
862.188293   39.857820  2568.605
 1.00000   11.593564   274.333369    5.608780
851.825313   38.014963  2823.431

 COMB      DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.593564   156.892559    5.608780
897.637535   52.756349  1824.809
 0.25000   11.593564   177.760015    5.608780
885.092083   47.449000  2070.186
 0.50000   11.593564   201.328630    5.608780
873.277791   43.093206  2314.062
 0.75000   11.593564   232.894732    5.608780
862.188293   39.857820  2568.605
 1.00000   11.593564   274.333369    5.608780
851.825313   38.014963  2823.431

 COMB      DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.190432  -583.988980   -8.120791
-969.702063   -73.136400  -2458.108
 0.25000  -11.190432  -557.881636   -8.120791
-960.072723   -65.493579  -2186.321
 0.50000  -11.190432  -532.101529   -8.120791
-950.979462   -58.377485  -1975.882
 0.75000  -11.190432  -508.392910   -8.120791
-942.427442   -52.085689  -1839.744
 1.00000  -11.190432  -486.903905   -8.120791
-934.421762   -47.088453  -1851.050

 ELEM      66 ================== LENGTH
=    4.958662

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.910493   25.374981    3.313249
68.104878   16.764719  751.759886
 0.25000    3.910493   25.892048    3.313249
69.312756   13.816561  810.192881
 0.50000    3.910493   26.478187    3.313249
70.540876   11.328144  879.037572
 0.75000    3.910493   27.116753    3.313249
71.797643    9.112350  956.121888
 1.00000    3.910493   27.789061    3.313249
73.515436    7.125677  1039.767

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.979687  -91.824103   -0.724845
-412.845122   -5.077087  -576.346987
 0.25000   -2.979687  -91.149040   -0.724845
-411.135969   -4.203713  -548.716789
 0.50000   -2.979687  -90.499697   -0.724845
-409.871620   -3.520660  -521.086589
 0.75000   -2.979687  -89.893663   -0.724845
-408.598490   -4.112890  -493.456392
 1.00000   -2.979687  -89.349577   -0.724845
-407.308337   -5.636374  -465.826194

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.475632   76.103906    3.462197
149.937926   23.057941  1670.378
 0.25000    5.475632   81.273849    3.462197
160.805194   21.372875  1756.588
 0.50000    5.475632   87.134496    3.462197
171.856051   20.155472  1864.860
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                    Page
<           MOVING          LOAD          >
                    973

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000    5.475632   93.519117    3.462197
183.165949   19.443212  2003.051
 1.00000    5.475632  100.229015    3.462197
198.625832   19.059348  2160.764

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.771469 -228.178234   -3.992908
-737.630156   -26.782059  -1024.500
 0.25000   -6.771469 -221.430829   -3.992908
-722.243393   -21.894647  -976.092102
 0.50000   -6.771469 -214.938161   -3.992908
-710.961349   -17.907632  -927.684397
 0.75000   -6.771469 -208.878296   -3.992908
-699.399363   -14.646358  -879.276695
 1.00000   -6.771469 -203.437911   -3.992908
-687.781661   -11.667539  -830.868993

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.261783   156.800463    4.329379
103.450282   37.537665  2586.125
 0.25000    8.261783   186.821352    4.329379
103.195503   35.571544  2779.381
 0.50000    8.261783   220.860461    4.329379
103.195503   34.769545  2946.071
 0.75000    8.261783   257.929761    4.329379
103.195503   35.140185  3092.325
 1.00000    8.261783   296.776775    4.329379
103.195503   36.375084  3216.244

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.852170 -478.329551   -5.353577
-549.614434   -27.134161  -1370.649
 0.25000   -8.852170 -439.266403   -5.353577
-551.670078   -22.807567  -1306.701
 0.50000   -8.852170 -401.554072   -5.353577
-553.671974   -19.381547  -1242.753
 0.75000   -8.852170 -366.342160   -5.353577
-555.645055   -16.588178  -1178.805
 1.00000   -8.852170 -334.735586   -5.353577
-558.275228   -13.945879  -1114.857

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.778240   155.625803    5.209461
325.468308   41.595123  2812.678
 0.25000    8.778240   180.314735    5.209461
325.468308   38.190668  2991.502
 0.50000    8.778240   208.306375    5.209461
325.468308   36.231985  3163.347
 0.75000    8.778240   238.790336    5.209461
325.468308   35.713958  3338.547
 1.00000    8.778240   270.736542    5.209461
325.468308   36.572350  3513.387

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.233694 -472.707557   -5.167484
-506.330911   -25.502674  -1508.623
 0.25000   -8.233694 -440.583649   -5.167484
-506.330911   -21.723910  -1438.276
 0.50000   -8.233694 -409.571055   -5.167484
-506.766014   -18.713893  -1367.932
 0.75000   -8.233694 -380.615165   -5.167484
-507.317674   -16.259353  -1297.588
 1.00000   -8.233694 -354.622335   -5.167484
-507.882877   -13.978833  -1227.245

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.978072   84.247239    0.180396
85.890022   10.111499  1188.318
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                    Page
<           MOVING          LOAD          >
                    974

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000    2.978072   100.643782    0.180396
106.123485   11.868563  1261.536
 0.50000    2.978072   119.231921    0.180396
126.718090   13.954138  1319.632
 0.75000    2.978072   139.479193    0.180396
147.811990   16.384747  1371.017
 1.00000    2.978072   160.733448    0.180396
176.660569   19.126662  1413.014

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.604039 -236.833008   -3.823179
-327.545232   -24.334762  -519.079845
 0.25000   -4.604039 -215.460185   -3.823179
-298.801128   -19.957503  -495.239317
 0.50000   -4.604039 -194.866828   -3.823179
-277.496259   -15.638018  -471.398763
 0.75000   -4.604039 -175.643397   -3.823179
-256.055450   -11.412626  -447.558239
 1.00000   -4.604039 -158.385797   -3.823179
-234.343239    -7.428837  -423.717715

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.706898   165.735707    2.743158
150.984215   31.506667  2315.806
 0.25000    6.706898   198.516497    2.743158
150.984215   31.125744  2462.035
 0.50000    6.706898   235.681808    2.743158
150.984215   32.256155  2575.939
 0.75000    6.706898   276.156416    2.743158
150.984215   34.893974  2672.956
 1.00000    6.706898   318.572620    2.743158
150.984215   38.591436  2749.232

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.464646 -465.388646   -5.766435
-167.723621   -26.400160  -1000.727
 0.25000   -7.464646 -422.736514   -5.766435
-167.723621   -22.350184  -954.999096
 0.50000   -7.464646 -381.560081   -5.766435
-167.723621   -18.337638  -909.271401
 0.75000   -7.464646 -343.114576   -5.766435
-167.723621   -14.595687  -863.543709
 1.00000   -7.464646 -308.602588   -5.766435
-167.723621   -10.593124  -817.816017

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.598462   166.572611    3.709610
179.132310   37.801166  2735.645
 0.25000    7.598462   196.406126    3.709610
179.132310   35.973804  2911.266
 0.50000    7.598462   230.228071    3.709610
179.132310   35.550968  3065.096
 0.75000    7.598462   267.062103    3.709610
179.132310   36.529201  3212.302
 1.00000    7.598462   305.663438    3.709610
179.132310   38.557139  3349.476

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.834791 -493.982518   -6.509531
-464.489760   -33.239496  -1356.895
 0.25000   -7.834791 -455.166513   -6.509531
-464.098749   -28.075767  -1294.072
 0.50000   -7.834791 -417.693950   -6.509531
-463.626409   -22.991400  -1231.249
 0.75000   -7.834791 -382.707172   -6.509531
-463.213703   -17.971442  -1168.427
 1.00000   -7.834791 -351.298268   -6.509531
-462.883011   -13.539759  -1105.604
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                    Page
<           MOVING          LOAD          >
                    975

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.032942   152.941113    3.617284
392.661319   34.292101  2823.337
 0.25000    7.032942   178.074521    3.617284
392.661319   32.267213  3006.660
 0.50000    7.032942   206.569592    3.617284
392.661319   31.398547  3177.683
 0.75000    7.032942   237.601939    3.617284
392.661319   31.963046  3350.309
 1.00000    7.032942   270.122930    3.617284
392.661319   34.336259  3522.200

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.405507 -474.257034   -5.940258
-412.544010   -31.389994  -1502.999
 0.25000   -7.405507 -441.555154   -5.940258
-412.544010   -26.834811  -1432.918
 0.50000   -7.405507 -409.984710   -5.940258
-412.544010   -22.356595  -1362.837
 0.75000   -7.405507 -380.508100   -5.940258
-412.544010   -17.956521   -1292.757
 1.00000   -7.405507 -354.047362   -5.940258
-412.544010   -14.073660   -1222.676

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.185679   25.604921    0.787044
397.496484    1.823812  783.797179
 0.25000    2.185679   26.218439    0.787044
395.423734    2.372540  842.537135
 0.50000    2.185679   26.917165    0.787044
393.898958    3.337975  912.100099
 0.75000    2.185679   27.677824    0.787044
392.360335    4.458990  991.527970
 1.00000    2.185679   28.472454    0.787044
390.796899    5.651939  1077.975

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.285181  -95.685715   -1.321148
-60.799339    -9.824841  -574.199394
 0.25000   -2.285181  -94.886690   -1.321148
-62.276363    -8.915739  -546.449975
 0.50000   -2.285181  -94.112488   -1.321148
-63.774831    -8.318985  -518.700559
 0.75000   -2.285181  -93.389342   -1.321148
-65.305469    -8.035013  -490.951143
 1.00000   -2.285181  -92.743145   -1.321148
-67.394595    -8.059724  -463.201727

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.937844   79.373917    3.328405
704.121937   18.192234  1705.322
 0.25000    4.937844   85.939950    3.328405
684.929277   16.482708  1796.624
 0.50000    4.937844   93.413317    3.328405
670.810913   16.318047  1905.797
 0.75000    4.937844  101.549525    3.328405
656.565352   17.284077  2041.002
 1.00000    4.937844  110.052726    3.328405
642.087789   18.998132  2194.117

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.159686 -239.340611   -2.457499
-148.292127   -11.251261  -1004.469
 0.25000   -4.159686 -230.790340   -2.457499
-161.978252   -10.294849  -957.030114
 0.50000   -4.159686 -222.509788   -2.457499
-175.867763    -9.632161  -909.591185
 0.75000   -4.159686 -214.775733   -2.457499
-190.045504    -9.281095  -862.152256
 1.00000   -4.159686 -207.860368   -2.457499
-209.395243    -9.184329  -814.713327
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                    Page
<           MOVING          LOAD          >
                    976

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.463097   157.335848    3.030984
503.243963   27.599635  2597.635
 0.25000    7.463097   187.621223    3.030984
503.243963   27.265339  2790.893
 0.50000    7.463097   221.960534    3.030984
503.243963   28.733632  2956.386
 0.75000    7.463097   259.355081    3.030984
503.243963   31.558564  3101.280
 1.00000    7.463097   298.544065    3.030984
503.243963   35.372214  3224.612

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.043614  -480.680452   -4.658734
-119.160855   -20.564124  -1348.463
 0.25000   -7.043614  -441.273557   -4.658734
-117.977526   -18.181024  -1285.479
 0.50000   -7.043614  -403.230879   -4.658734
-116.917973   -16.085078  -1222.496
 0.75000   -7.043614  -367.712154   -4.658734
-115.934313   -14.318261  -1159.512
 1.00000   -7.043614  -335.824481   -4.658734
-114.985190   -12.861335  -1096.529

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.175320   154.734510    2.976831
466.722131   28.554661  2811.964
 0.25000    7.175320   179.537659    2.976831
466.722131   28.281961  2992.477
 0.50000    7.175320   207.658013    2.976831
466.722131   29.528790  3164.537
 0.75000    7.175320   238.282353    2.976831
466.722131   31.957097  3339.487
 1.00000    7.175320   270.375815    2.976831
466.722131   35.275056  3513.645

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.673369  -473.085914   -6.608913
-348.956738   -36.248461  -1502.054
 0.25000   -8.673369  -440.813947   -6.608913
-348.956738   -30.878120  -1431.809
 0.50000   -8.673369  -409.656611   -6.608913
-348.956738   -25.787657  -1361.564
 0.75000   -8.673369  -380.569654   -6.608913
-348.956738   -20.985894  -1291.320
 1.00000   -8.673369  -354.456641   -6.608913
-348.956739   -16.444737  -1221.075

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.838474   36.456596    4.596557
85.912308   23.287039  728.708944
 0.25000    7.838474   36.843916    4.596557
86.877578   18.636976  825.764440
 0.50000    7.838474   37.280544    4.596557
87.936224   14.367180  925.259161
 0.75000    7.838474   37.749660    4.596557
89.090553   10.906800  1026.271
 1.00000    7.838474   38.230515    4.596557
90.342851    8.198879  1130.208

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.292436 -122.971840   -0.886075
-481.917307   -7.801775  -685.870404
 0.25000   -3.292436 -122.443152   -0.886075
-480.583516    -7.238906  -693.894216
 0.50000   -3.292436 -121.920836   -0.886075
-479.312236    -7.069019  -701.837476
 0.75000   -3.292436 -121.423815   -0.886075
-478.106160    -7.962128  -709.855947
 1.00000   -3.292436 -120.971094   -0.886075
-476.966610   -10.634326  -717.771283
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                    Page
<           MOVING          LOAD          >
                    977
```

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.955677	96.931384		4.379173
177.240867	26.164208	1506.857		
0.25000	8.955677	100.152970		4.379173
184.120544	25.955133	1665.011		
0.50000	8.955677	103.785256		4.379173
191.671827	21.053598	1832.053		
0.75000	8.955677	107.685633		4.379173
199.903300	19.592330	2014.246		
1.00000	8.955677	111.684747		4.379173
208.832577	18.983712	2202.049		

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.412461	-263.984876		-5.477949
-794.730915	-36.897510	-1213.828		
0.25000	-9.412461	-259.588803		-5.477949
-785.198251	-31.741018	-1230.151		
0.50000	-9.412461	-255.244617		-5.477949
-776.118963	-27.160553	-1246.171		
0.75000	-9.412461	-251.111485		-5.477949
-767.504841	-23.479710	-1262.298		
1.00000	-9.412461	-247.346483		-5.477949
-759.363866	-20.701547	-1278.249		

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	11.319785	175.130168		5.162171
161.115268	38.804881	2276.435		
0.25000	11.319785	196.851752		5.162171
156.404757	36.314247	2549.008		
0.50000	11.319785	221.367420		5.162171
151.957060	34.737591	2792.268		
0.75000	11.319785	247.662743		5.162171
147.768379	34.417695	3008.839		
1.00000	11.319785	274.636922		5.162171
143.836991	35.172136	3193.192		

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.240074	-484.694186		-6.637725
-633.542892	-38.402145	-1638.613		
0.25000	-11.240074	-455.023824		-6.637725
-637.531514	-33.787620	-1661.825		
0.50000	-11.240074	-425.769504		-6.637725
-641.878169	-29.851687	-1685.604		
0.75000	-11.240074	-397.000025		-6.637725
-646.596897	-26.741930	-1708.949		
1.00000	-11.240074	-372.535377		-6.637725
-651.700324	-24.309790	-1732.310		

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	11.985709	178.990633		6.313968
374.110867	44.521436	2459.621		
0.25000	11.985709	196.867293		6.313968
370.938614	40.620666	2732.558		
0.50000	11.985709	217.042402		6.313968
367.949066	38.022771	2990.961		
0.75000	11.985709	238.682005		6.313968
365.138578	36.837613	3239.267		
1.00000	11.985709	260.880358		6.313968
362.505117	37.006165	3465.263		

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-10.181475	-489.641876		-6.300261
-583.326172	-34.842860	-1782.145		
0.25000	-10.181475	-465.225470		-6.300261
-586.094570	-30.855770	-1808.177		
0.50000	-10.181475	-441.150451		-6.300261
-589.107258	-27.791932	-1834.564		
0.75000	-10.181475	-418.215231		-6.300261
-592.374402	-25.640450	-1860.543		
1.00000	-10.181475	-397.340278		-6.300261
-595.908554	-24.164544	-1886.524		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
978

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	2.849016	88.256813		0.224754
92.511014	8.414997	974.275178		
0.25000	2.849016	100.409703		0.224754
109.892511	10.023514	1077.832		
0.50000	2.849016	114.120289		0.224754
128.917565	12.056160	1166.009		
0.75000	2.849016	128.829101		0.224754
149.692300	14.401199	1242.447		
1.00000	2.849016	143.915099		0.224754
172.231344	17.071108	1301.839		

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-7.645182	-223.260126		-5.392897
-318.248240	-32.140079	-607.054047		
0.25000	-7.645182	-206.660784		-5.392897
-294.049743	-26.938202	-616.353413		
0.50000	-7.645182	-190.300767		-5.392897
-271.065871	-21.875958	-625.947514		
0.75000	-7.645182	-174.707168		-5.392897
-249.208463	-16.939467	-635.301192		
1.00000	-7.645182	-160.511752		-5.392897
-228.464721	-12.226246	-644.750048		

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.202274	174.169432		2.869128
157.086977	30.446451	1920.637		
0.25000	7.202274	198.467244		2.869128
157.086977	30.411056	2122.586		
0.50000	7.202274	225.881455		2.869128
157.086977	31.416315	2298.221		
0.75000	7.202274	255.285229		2.869128
157.086977	33.443881	2446.441		
1.00000	7.202274	285.448766		2.869128
157.086977	36.241571	2559.984		

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.611910	-439.829082		-6.713702
-174.473011	-33.678353	-1181.670		
0.25000	-9.611910	-406.664894		-6.713702
-174.473011	-29.132416	-1200.537		
0.50000	-9.611910	-373.949963		-6.713702
-174.473011	-24.907638	-1220.094		
0.75000	-9.611910	-342.784684		-6.713702
-174.473011	-20.934440	-1239.050		
1.00000	-9.611910	-314.412530		-6.713702
-174.473011	-17.177371	-1258.203		

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.930021	184.491294		3.915801
199.128071	37.972497	2345.062		
0.25000	8.930021	206.681810		3.915801
199.128513	36.356668	2604.688		
0.50000	8.930021	231.716790		3.915801
199.128513	35.748586	2839.421		
0.75000	8.930021	258.568551		3.915801
199.128862	36.126963	3054.385		
1.00000	8.930021	286.114278		3.915801
199.128928	37.311783	3237.155		

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-10.711231	-493.493615		-7.585528
-507.916442	-45.097141	-1695.478		
0.25000	-10.711231	-463.194706		-7.585528
-507.023586	-39.165461	-1679.738		
0.50000	-10.711231	-433.331666		-7.585528
-506.114557	-33.539426	-1686.342		
0.75000	-10.711231	-404.871009		-7.585528
-505.195032	-28.181295	-1701.577		
1.00000	-10.711231	-378.959365		-7.585528
-504.272366	-23.190538	-1716.989		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
979

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.356449	176.246123		4.154797
436.098955	34.793492	2467.295		
0.25000	8.356449	195.008716		4.154797
436.098955	32.831189	2745.649		
0.50000	8.356449	216.177770		4.154797
436.098955	32.187717	3006.570		
0.75000	8.356449	238.883150		4.154797
436.098955	32.609845	3252.984		
1.00000	8.356449	262.175214		4.154797
436.098955	34.152443	3471.653		

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.923027	-491.666996		-6.981694
-458.382371	-41.386063	-1850.922		
0.25000	-9.923027	-466.057852		-6.981694
-458.382371	-36.213977	-1843.761		
0.50000	-9.923027	-440.795620		-6.981694
-458.382371	-31.778125	-1855.155		
0.75000	-9.923027	-416.710085		-6.981694
-458.382371	-27.765497	-1873.684		
1.00000	-9.923027	-394.821248		-6.981694
-458.382371	-24.143965	-1892.351		

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	2.131381	36.728777		1.288953
459.591346	2.701494	753.095641		
0.25000	2.131381	37.199143		1.288953
457.956489	2.710271	850.867597		
0.50000	2.131381	37.733145		1.288953
456.400205	3.608705	951.411135		
0.75000	2.131381	38.305397		1.288953
454.925308	4.754066	1054.225		
1.00000	2.131381	38.892405		1.288953
453.532785	6.035883	1158.892		

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-3.404956	-125.557334		-1.917611
-74.435555	-14.040693	-682.307741		
0.25000	-3.404956	-124.912057		-1.917611
-75.641925	-12.800210	-689.895620		
0.50000	-3.404956	-124.275766		-1.917611
-76.964433	-12.531740	-697.267674		
0.75000	-3.404956	-123.669662		-1.917611
-78.405056	-12.749618	-704.604296		
1.00000	-3.404956	-123.120164		-1.917611
-79.967726	-13.296351	-711.915565		

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	6.528027	98.766540		4.324824
746.385579	22.954092	1539.296		
0.25000	6.528027	103.028100		4.324824
734.032234	20.524107	1689.203		
0.50000	6.528027	107.862249		4.324824
722.275773	19.708344	1855.279		
0.75000	6.528027	113.042755		4.324824
711.134280	19.856068	2034.440		
1.00000	6.528027	118.356934		4.324824
700.614148	20.553205	2215.851		

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.029275	-269.544385		-3.088621
-163.923379	-15.975330	-1203.459		
0.25000	-5.029275	-263.702290		-3.088621
-173.052331	-14.859124	-1216.825		
0.50000	-5.029275	-257.941701		-3.088621
-183.059177	-14.951497	-1224.792		
0.75000	-5.029275	-252.454324		-3.088621
-193.967138	-15.754541	-1235.922		
1.00000	-5.029275	-247.475515		-3.088621
-205.796237	-16.921368	-1249.782		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
980

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.073957	173.334958		3.764896
575.672182	28.174904	2257.983		
0.25000	8.073957	195.316114		3.764896
578.860554	27.602733	2526.366		
0.50000	8.073957	220.108744		3.764896
582.381218	28.647015	2765.239		
0.75000	8.073957	246.700161		3.764896
586.237633	31.306148	2977.062		
1.00000	8.073957	273.979346		3.764896
590.433487	34.474881	3155.101		

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.108870	-480.564513		-5.720337
-166.071583	-29.273088	-1591.766		
0.25000	-9.108870	-450.559061		-5.720337
-160.949897	-26.342793	-1614.399		
0.50000	-9.108870	-420.983610		-5.720337
-156.042754	-24.646186	-1637.677		
0.75000	-9.108870	-392.797880		-5.720337
-151.355036	-23.636860	-1660.297		
1.00000	-9.108870	-367.130165		-5.720337
-146.901492	-22.984402	-1683.060		

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.873500	177.731491		3.592982
539.592398	29.662722	2457.907		
0.25000	7.873500	195.798960		3.592982
541.643455	29.104902	2731.513		
0.50000	7.873500	216.178482		3.592982
543.914650	30.104796	2990.372		
0.75000	7.873500	238.036683		3.592982
546.408000	32.169047	3238.237		
1.00000	7.873500	260.460130		3.592982
549.120962	35.038765	3462.358		

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.629878	-489.610049		-8.074344
-407.243113	-48.561892	-1825.323		
0.25000	-11.629878	-464.945754		-8.074344
-403.812342	-42.343983	-1844.578		
0.50000	-11.629878	-440.634848		-8.074344
-400.515717	-37.166637	-1864.212		
0.75000	-11.629878	-417.466310		-8.074344
-397.364227	-32.593075	-1883.274		
1.00000	-11.629878	-396.368765		-8.074344
-394.365803	-28.399071	-1902.452		

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.778240	166.572611		5.209461
704.121937	41.595123	2823.337		
0.25000	8.778240	198.516497		5.209461
684.922277	36.190668	3006.660		
0.50000	8.778240	235.681808		5.209461
670.810913	36.231985	3177.683		
0.75000	8.778240	276.156416		5.209461
656.565352	36.529201	3350.309		
1.00000	8.778240	318.572620		5.209461
642.087789	38.591436	3522.200		

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-8.852170	-493.982518		-6.608913
-737.500156	-8.852846	-1508.623		
0.25000	-8.852170	-455.166513		-6.608913
-722.243393	-30.878120	-1438.276		
0.50000	-8.852170	-417.693950		-6.608913
-710.861349	-25.787657	-1367.932		
0.75000	-8.852170	-382.707172		-6.608913
-699.399363	-20.985894	-1297.588		
1.00000	-8.852170	-354.622385		-6.608913
-687.781661	-16.444737	-1227.245		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
981

FRAME ELEMENT INTERNAL FORCES

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	11.985709	184.491294		6.313968
746.385579	44.521436	2467.295		
0.25000	11.985709	206.681810		6.313968
734.032234	40.620666	2745.649		
0.50000	11.985709	231.716790		6.313968
722.275773	38.022771	3006.570		
0.75000	11.985709	258.568551		6.313968
711.134280	36.837613	3252.984		
1.00000	11.985709	286.114278		6.313968
700.614148	37.311783	3471.653		

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.629878	-493.493615		-8.074344
-794.730915	-48.561892	-1850.922		
0.25000	-11.629878	-466.057852		-8.074344
-785.198251	-42.343983	-1844.578		
0.50000	-11.629878	-441.150451		-8.074344
-776.118963	-37.166637	-1864.212		
0.75000	-11.629878	-418.215231		-8.074344
-767.504841	-32.593075	-1883.274		
1.00000	-11.629878	-397.340278		-8.074344
-759.363866	-28.399071	-1902.452		

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	11.985709	184.491294		6.313968
746.385579	44.521436	2823.337		
0.25000	11.985709	206.681810		6.313968
734.032234	40.620666	3006.660		
0.50000	11.985709	235.681808		6.313968
722.275773	38.022771	3177.683		
0.75000	11.985709	276.156416		6.313968
711.134280	36.837613	3350.309		
1.00000	11.985709	318.572620		6.313968
700.614148	38.591436	3522.200		

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.629878	-493.982518		-8.074344
-794.730915	-48.561892	-1850.922		
0.25000	-11.629878	-466.057852		-8.074344
-785.198251	-42.343983	-1844.578		
0.50000	-11.629878	-441.150451		-8.074344
-776.118963	-37.166637	-1864.212		
0.75000	-11.629878	-418.215231		-8.074344
-767.504841	-32.593075	-1883.274		
1.00000	-11.629878	-397.340278		-8.074344
-759.363866	-28.399071	-1902.452		

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	11.985709	184.491294		6.313968
746.385579	44.521436	2823.337		
0.25000	11.985709	206.681810		6.313968
734.032234	40.620666	3006.660		
0.50000	11.985709	235.681808		6.313968
722.275773	38.022771	3177.683		
0.75000	11.985709	276.156416		6.313968
711.134280	36.837613	3350.309		
1.00000	11.985709	318.572620		6.313968
700.614148	38.591436	3522.200		

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.629878	-493.982518		-8.074344
-794.730915	-48.561892	-1850.922		
0.25000	-11.629878	-466.057852		-8.074344
-785.198251	-42.343983	-1844.578		
0.50000	-11.629878	-441.150451		-8.074344
-776.118963	-37.166637	-1864.212		
0.75000	-11.629878	-418.215231		-8.074344
-767.504841	-32.593075	-1883.274		
1.00000	-11.629878	-397.340278		-8.074344
-759.363866	-28.399071	-1902.452		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
982

FRAME ELEMENT INTERNAL FORCES

ELEM 67 ========== LENGTH = 4.958084

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	3.881704	25.768117		2.532010
68.675916	10.487163	1040.678		
0.25000	3.881704	26.298760		2.532010
69.938950	8.506209	1063.532		
0.50000	3.881704	26.899529		2.532010
71.208158	6.911388	1096.288		
0.75000	3.881704	27.552485		2.532010
72.491236	5.510682	1138.462		
1.00000	3.881704	28.238927		2.532010
74.235916	4.325316	1187.790		

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-3.179303	-70.093502		-0.644025
-293.674359	-5.906784	-465.670053		
0.25000	-3.179303	-69.402872		-0.644025
-291.926384	-5.184085	-438.113433		
0.50000	-3.179303	-68.738944		-0.644025
-290.637860	-5.323916	-410.556812		
0.75000	-3.179303	-68.122253		-0.644025
-289.358938	-6.108457	-383.000192		
1.00000	-3.179303	-67.572102		-0.644025
-288.081326	-8.074854	-355.446794		

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.580821	87.172349		3.262451
177.557755	23.918264	2162.125		
0.25000	5.580821	92.478556		3.262451
188.927556	21.534931	2192.358		
0.50000	5.580821	98.486022		3.262451
200.354070	19.823376	2241.610		
0.75000	5.580821	105.015085		3.262451
211.906279	18.752533	2320.301		
1.00000	5.580821	111.876631		3.262451
227.612651	18.222979	2418.709		

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.939092	-189.764358		-2.072648
-565.486069	-12.034286	-830.657713		
0.25000	-6.939092	-182.860883		-2.072648
-549.749053	-10.702602	-782.462304		
0.50000	-6.939092	-176.222097		-2.072648
-538.145462	-9.750554	-734.266896		
0.75000	-6.939092	-170.055351		-2.072648
-526.627116	-9.408855	-686.071487		
1.00000	-6.939092	-164.554008		-2.072648
-515.126991	-9.160129	-637.889224		

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.639583	179.132309		4.642659
120.752333	41.424565	3217.341		
0.25000	8.639583	209.972697		4.642659
118.529082	38.522382	3341.934		
0.50000	8.639583	244.893463		4.642659
117.612795	36.848971	3435.543		
0.75000	8.639583	282.831776		4.642659
117.612344	36.455470	3506.047		
1.00000	8.639583	322.577105		4.642659
117.612344	37.153903	3552.922		

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.368152	-428.480962		-3.782003
-403.156066	-14.427433	-1114.661		
0.25000	-9.368152	-388.489247		-3.782003
-404.924931	-13.185669	-1050.902		
0.50000	-9.368152	-349.912448		-3.782003
-406.639936	-12.188830	-987.142103		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
983

FRAME ELEMENT INTERNAL FORCES

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000	-9.368152	-314.062468		-3.782003
-408.323764	-11.596993	-923.382552		
1.00000	-9.368152	-282.084281		-3.782003
-410.721680	-11.067665	-859.635578		

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	9.066480	183.015534		4.567081
284.432949	40.819396	3513.774		
0.25000	9.066480	208.379178		4.567081
284.432949	38.170896	3615.186		
0.50000	9.066480	237.094425		4.567081
284.432949	36.837643	3706.492		
0.75000	9.066480	268.292676		4.567081
284.432949	36.799655	3798.570		
1.00000	9.066480	300.977337		4.567081
284.432949	37.890462	3886.229		

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-8.736910	-417.100475		-3.774084
-412.109743	-13.477271	-1086.136		
0.25000	-8.736910	-384.213214		-3.774084
-412.209165	-13.338476	-1156.938		
0.50000	-8.736910	-352.489948		-3.774084
-412.686008	-12.482812	-1086.740		
0.75000	-8.736910	-323.009558		-3.774084
-413.184941	-11.599363	-1016.541		
1.00000	-8.736910	-296.711375		-3.774084
-413.661708	-11.691814	-946.356943		

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	3.239896	99.572206		1.327933
116.403204	20.362980	1413.432		
0.25000	3.239896	116.407094		1.327933
137.657783	19.938191	1463.678		
0.50000	3.239896	135.467213		1.327933
159.029991	20.065434	1497.260		
0.75000	3.239896	156.179192		1.327933
180.648229	20.831367	1522.892		
1.00000	3.239896	177.918238		1.327933
210.015730	22.119443	1536.571		

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-4.767943	-218.220296		-2.221392
-289.560233	-7.567946	-423.678079		
0.25000	-4.767943	-196.347633		-2.221392
-260.118261	-6.067855	-399.966414		
0.50000	-4.767943	-175.287391		-2.221392
-238.380631	-4.902255	-376.254749		
0.75000	-4.767943	-155.721189		-2.221392
-216.813060	-4.256455	-352.543084		
1.00000	-4.767943	-138.266422		-2.221392
-195.292802	-3.700634	-328.831426		

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.139856	195.003741		3.179254
148.793098	40.307181	2749.240		
0.25000	7.139856	228.678866		3.179254
148.793098	38.936904	2851.562		

```
 0.50000      7.139856   266.806214      3.179254
148.793098    38.822082    2918.437
 0.75000      7.139856   308.229087      3.179254
148.793098    40.118274    2965.889
 1.00000      7.139856   351.625665      3.179254
148.793098    42.553750    2987.622

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.880731  -429.579609   -4.148395
-156.834671   -10.853814  -817.790553
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<               MOVING              LOAD                >
                                     984

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -7.880731  -385.914040   -4.148395
-156.834671    -9.351718  -772.134840
 0.50000   -7.880731  -343.794100   -4.148395
-156.834671    -8.131748  -726.479127
 0.75000   -7.880731  -304.652277   -4.148395
-156.834671    -7.386092  -680.823414
 1.00000   -7.880731  -269.734947   -4.148395
-156.834671    -6.735235  -635.172201

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.965505   197.527385    3.879232
187.353465    42.662874    3350.125
 0.25000    7.965505   228.174521    3.879232
187.353465    40.341724    3459.373
 0.50000    7.965505   262.871601    3.879232
187.353465    39.215558    3544.966
 0.75000    7.965505   300.568252    3.879232
187.353465    39.427786    3620.065
 1.00000    7.965505   340.061499    3.879232
187.353465    41.064478    3680.487

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.311757  -444.588751   -4.311324
-370.182784   -13.991741   -1105.476
 0.25000   -8.311757  -404.850725   -4.311324
-369.616637   -12.721513   -1042.822
 0.50000   -8.311757  -366.519750   -4.311324
-369.039057   -11.657557   -980.169803
 0.75000   -8.311757  -330.882505   -4.311324
-368.530282   -10.937772   -917.517470
 1.00000   -8.311757  -299.121968   -4.311324
-368.107139   -10.294830   -854.869204

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.421764   182.916374    3.583717
333.662894    37.341279    3522.071
 0.25000    7.421764   208.735479    3.583717
333.662894    35.631516    3627.558
 0.50000    7.421764   237.963155    3.583717
333.662894    34.927023    3720.476
 0.75000    7.421764   269.727547    3.583717
333.662894    35.340496    3810.009
 1.00000    7.421764   303.000202    3.583717
333.662894    36.985445    3894.345

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.876862  -418.728044   -3.949016
-348.008267   -14.454543   -1222.654
 0.25000   -7.876862  -385.249150   -3.949016
-348.008267   -13.272066   -1152.784
 0.50000   -7.876862  -352.955309   -3.949016
-348.008267   -12.278559   -1082.916
 0.75000   -7.876862  -322.944823   -3.949016
-348.008267   -11.593615   -1013.047
 1.00000   -7.876862  -296.173306   -3.949016
-348.008267   -11.099865   -943.181785

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.365717    26.021870    0.757239
285.931567    4.734758    1076.910
 0.25000    2.365717    26.652659    0.757239
283.819061    4.949171    1100.335
 0.50000    2.365717    27.370119    0.757239
282.269086    5.318984    1133.635
 0.75000    2.365717    28.149281    0.757239
280.726566    5.824596    1176.656
 1.00000    2.365717    28.962733    0.757239
279.182808    6.432782    1227.852
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<               MOVING              LOAD                >
                                     985

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.475562  -73.393982   -1.624995
-63.092086    -8.275905  -463.356772
 0.25000   -2.475562  -72.575408   -1.624995
-64.621594    -6.966474  -435.817900
 0.50000   -2.475562  -71.783114   -1.624995
-66.155947    -6.061696  -408.279027
 0.75000   -2.475562  -71.046490   -1.624995
-67.705063    -5.583896  -380.740154
 1.00000   -2.475562  -70.392208   -1.624995
-69.815945    -5.517742  -353.201287

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.161498    91.793965    2.023528
549.903905    18.294099    2192.567
 0.25000    5.161498    98.544056    2.023528
530.347612    19.272480    2220.390
 0.50000    5.161498   106.216867    2.023528
515.999471    18.048763    2280.004
 0.75000    5.161498   114.550000    2.023528
501.725152    18.949365    2356.006
 1.00000    5.161498   123.253955    2.023528
487.431725    20.363854    2449.705

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.497965  -201.032425   -2.831441
-174.997765    -9.462732   -814.899945
 0.25000   -4.497965  -192.223780   -2.831441
-189.162297    -8.058869   -767.615141
 0.50000   -4.497965  -183.800234   -2.831441
-203.367558    -7.042282   -720.330338
 0.75000   -4.497965  -175.922577   -2.831441
-217.709281    -6.711625   -673.045535
 1.00000   -4.497965  -168.921416   -2.831441
-237.254875    -6.663487   -625.766212

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.981468   180.937162    3.239987
374.472943    35.623366    3223.450
 0.25000    7.981468   212.051352    3.239987
374.472943    34.716068    3348.490
 0.50000    7.981468   247.275858    3.239987
374.472943    34.967116    3462.289
 0.75000    7.981468   285.545908    3.239987
374.822766    36.453469    3511.871
 1.00000    7.981468   325.640183    3.239987
376.145271    38.926180    3558.255

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.615845  -430.997017   -4.468026
-128.731425   -13.263229    -1096.676
 0.25000   -7.615845  -390.654250   -4.468026
-127.353919   -11.473520    -1033.899
 0.50000   -7.615845  -351.740254   -4.468026
-126.177194   -10.163194   -971.123233
 0.75000   -7.615845  -315.578577   -4.468026
-125.073964    -9.441851   -908.347024
 1.00000   -7.615845  -283.316833   -4.468026
-124.057675    -8.913937   -845.574574

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.681955   182.702932    3.238354
385.627494    37.139519    3513.130
 0.25000    7.681955   208.182722    3.238354
385.627494    35.879189    3615.969
 0.50000    7.681955   237.030927    3.238354
385.627494    35.757085    3707.795
 0.75000    7.681955   268.372699    3.238354
385.627494    36.844434    3799.371
 1.00000    7.681955   301.207901    3.238354
385.627494    38.991809    3886.304
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<               MOVING              LOAD                >
                                     986

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.111708  -417.384602   -4.849370
-296.706245    -16.861309    -1221.129
 0.25000   -9.111708  -384.345875   -4.849370
-296.706245    -13.964112    -1151.168
 0.50000   -9.111708  -352.476688   -4.849370
-296.706245    -12.200887    -1081.208
 0.75000   -9.111708  -322.860908   -4.849370
-296.706245    -11.344415    -1011.247
 1.00000   -9.111708  -296.441239   -4.849370
-296.706246    -10.686051   -941.288930

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.923349    43.999880    2.659133
102.586310    12.175482    1131.409
 0.25000    7.923349    44.407725    2.659133
103.616856    10.021423    1183.964
 0.50000    7.923349    44.866880    2.659133
104.732999    8.245322    1238.327
 0.75000    7.923349    45.356844    2.659133
105.929944    6.888784    1294.562
 1.00000    7.923349    45.656366    2.659133
107.207568    5.910265    1352.687

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.494636  -93.380076   -0.928788
-338.201882   -12.157202   -717.762971
 0.25000   -3.494636  -92.854504   -0.928788
-336.856811   -11.887254   -725.839464
 0.50000   -3.494636  -92.335481   -0.928788
-335.593362   -12.063040   -733.844234
 0.75000   -3.494636  -91.844589   -0.928788
-334.412241   -13.219550   -741.833576
 1.00000   -3.494636  -91.401237   -0.928788
-333.313524   -14.952342   -749.812094

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.181536   116.048115    3.149453
222.633796    25.271803    2203.792
 0.25000    9.181536   119.439810    3.149453
230.017459    23.278488    2284.610
 0.50000    9.181536   123.258714    3.149453
237.965176    21.836986    2374.090
 0.75000    9.181536   127.333616    3.149453
246.505308    21.123111    2478.017
 1.00000    9.181536   131.487940    3.149453
255.636844    21.276034    2589.002

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.664584  -213.332457   -3.128896
-595.215930    -24.226088    -1278.257
 0.25000   -9.664584  -208.961399   -3.128896
-585.619678    -22.094900    -1294.549
 0.50000   -9.664584  -204.644880   -3.128896
-576.600392    -20.313449    -1310.603
 0.75000   -9.664584  -200.562279   -3.128896
-568.165669    -19.273630    -1326.843
 1.00000   -9.664584  -196.875047   -3.128896
-560.316251    -19.602121    -1342.938

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.799423   202.168689    4.377652
196.428038    41.598102    3194.638
 0.25000   11.799423   225.044774    4.377652
191.618709    39.452317    3366.093
 0.50000   11.799423   250.815844    4.377652
187.119708    38.13015     3508.271
 0.75000   11.799423   278.299245    4.377652
182.925899    37.896854    3622.856
 1.00000   11.799423   306.310155    4.377652
179.037968    38.752760    3706.060
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<               MOVING              LOAD                >
                                     987

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.77191   -417.294146   -4.418257
-465.115409    -27.769646    -1732.272
 0.25000   -11.77191   -387.808346   -4.418257
-469.109601    -25.961180    -1756.010
 0.50000   -11.771911  -358.699002   -4.418257
-473.419224   -24.486644    -1779.514
 0.75000   -11.771911  -331.165037   -4.418257
-478.047243   -23.591937    -1803.323
 1.00000   -11.771911  -306.302719   -4.418257
-483.002641   -23.800087    -1826.912

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   12.403851   210.665045    4.742593
347.040026    42.251606    3465.833
 0.25000   12.403851   229.491859    4.742593
343.790658    40.286496    3627.681
 0.50000   12.403851   250.700071    4.742593
340.755555    39.154014    3773.925
 0.75000   12.403851   273.317407    4.742593
337.930514    39.270900    3909.901
 1.00000   12.403851   296.368831    4.742593
335.310933    40.441810    4025.647

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.688895  -416.499623   -4.345754
-470.207885    -26.587303    -1886.434
 0.25000   -10.688895  -392.234232   -4.345754
-472.945951    -25.572939    -1912.370
 0.50000   -10.688895  -368.378782   -4.345754
-475.899745    -24.899906    -1938.132
 0.75000   -10.688895  -345.619797   -4.345754
-479.073821    -24.816100    -1964.089
 1.00000   -10.688895  -325.158404   -4.345754
-482.470017    -25.775686    -1989.919

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.107277   100.390625    1.077722
115.534018    18.878345    1302.242
 0.25000    3.107277   113.185646    1.077722
134.171437    19.553453    1370.431
 0.50000    3.107277   127.600268    1.077722
154.307204    19.544148    1422.999
 0.75000    3.107277   142.971002    1.077722
175.913043    20.559980    1463.198
 1.00000    3.107277   158.635425    1.077722
198.966371    22.155986    1486.546

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.839585  -198.912137   -2.889692
-276.708589    -13.160258   -684.751861
 0.25000   -7.839585  -182.427176   -2.889692
-252.420494    -11.200370   -654.534642
 0.50000   -7.839585  -166.143918   -2.889692
-229.533403    -9.377852   -664.277465
 0.75000   -7.839585  -150.743498   -2.889692
-208.135923    -7.948441   -674.069605
 1.00000   -7.839585  -136.435054   -2.889692
-188.229280    -6.844505   -683.816690

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.675613   197.587793    3.105022
149.628904    38.638312    2559.974
 0.25000    7.675613   223.174733    3.105022
149.628904    38.042824    2695.274
 0.50000    7.675613   251.992577    3.105022
149.628904    38.183665    2798.701
 0.75000    7.675613   282.722457    3.105022
149.628904    39.349020    2876.393
 1.00000    7.675613   314.047030    3.105022
149.628904    41.446125    2919.573
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<               MOVING              LOAD                >
                                     988

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.061099  -392.553056   -4.333743
-158.604651    -18.114645    -1258.134
 0.25000   -10.061099  -359.595688   -4.333743
-158.604651    -16.885777    -1296.510
 0.50000   -10.061099  -327.044780   -4.333743
-158.604651    -15.455796    -1296.787
 0.75000   -10.061099  -296.255589   -4.333743
-158.604651    -14.646247    -1316.212
 1.00000   -10.061099  -268.446389   -4.333743
-158.604651    -14.182525    -1335.535

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.418344   214.901815    3.757464
217.486845    42.545777    3237.982
 0.25000    9.418344   238.270676    3.757464
217.548092    41.474699    3399.110
 0.50000    9.418344   264.587426    3.757464
217.647293    40.705827    3534.940
 0.75000    9.418344   292.652500    3.757464
217.896673    40.945947    3650.786
 1.00000    9.418344   321.256286    3.757464
218.431389    42.224288    3736.633

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.140282  -428.659646   -4.859205
-397.837017    -26.267864    -1716.894
 0.25000   -11.140289  -398.561149   -4.859205
-396.895646    -24.382481    -1732.095
 0.50000   -11.140289  -368.835299   -4.859205
-395.992817    -22.679226    -1750.800
 0.75000   -11.140289  -340.718287   -4.859205
-395.133339    -21.315955    -1771.299
 1.00000   -11.140289  -315.322366   -4.859205
-394.321386    -20.270621    -1799.688

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.823464   209.392796    3.720797
376.760359    38.337751    3471.551
 0.25000    8.823464   229.150845    3.720797
376.760359    37.527409    3638.071
 0.50000    8.823464   251.403774    3.720797
376.760359    37.410851    3786.431
 0.75000    8.823464   275.135095    3.720797
376.760359    38.132705    3920.810
 1.00000    8.823464   299.321771    3.720797
376.760359    39.710121    4030.936

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.337591  -419.181496   -4.595216
-390.446310    -25.959407    -1892.226
 0.25000   -10.337591  -393.732056   -4.595216
-390.446310    -24.777459    -1910.531
 0.50000   -10.337591  -368.596482   -4.595216
-390.446310    -23.823388    -1931.708
 0.75000   -10.337591  -344.821293   -4.595216
-390.446310    -23.155060    -1957.728
 1.00000   -10.337591  -323.347232   -4.595216
-390.446310    -22.792097    -1983.661

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.312418    45.234312    1.207143
324.646731    5.065046    1157.538
 0.25000    2.312418    45.729899    1.207143
322.995324    5.509416    1209.673
 0.50000    2.312418    46.290959    1.207143
321.446003    6.167176    1264.364
 0.75000    2.312418    46.889134    1.207143
319.997749    7.046037    1321.178
 1.00000    2.312418    47.498629    1.207143
318.650728    8.151127    1380.420

 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<               MOVING              LOAD                >
                                     989

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.585518   -95.584748   -1.823165
-94.913419    -12.141335    -711.866052
 0.25000   -3.585518   -94.943491   -1.823165
-96.193462    -11.515832    -718.643036
 0.50000   -3.585518   -94.310653   -1.823165
-97.574934    -11.200873    -726.341110
 0.75000   -3.585518   -93.710868   -1.823165
-99.058455    -11.426289    -734.190084
 1.00000   -3.585518   -93.172030   -1.823165
-100.643595    -12.110234    -741.942188

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.782320   118.151824    3.027548
566.602545    19.816449    2213.945
 0.25000    6.782320   122.641865    3.027548
554.131183    19.539399    2296.557
 0.50000    6.782320   127.721063    3.027548
542.416955    19.869498    2385.956
 0.75000    6.782320   133.136170    3.027548
531.475533    20.888003    2487.763
 1.00000    6.782320   138.653697    3.027548
521.303604    22.554357    2593.841

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.362824  -219.549757   -2.974533
-212.301563    -15.539075    -1249.662
 0.25000   -5.362824  -213.742633   -2.974533
-221.984273    -15.483814    -1263.651
 0.50000   -5.362824  -208.008239   -2.974533
-232.432652    -15.823722    -1279.152
 0.75000   -5.362824  -202.583769   -2.974533
-243.650770    -16.827754    -1295.170
 1.00000   -5.362824  -197.712402   -2.974533
-255.640437    -18.452507    -1311.049

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.611801   200.329703    3.679210
426.802755    34.948283    3153.559
 0.25000    8.611801   223.478903    3.679210
430.456585    34.844629    3323.016
 0.50000    8.611801   249.539522    3.679210
434.405897    35.510017    3462.754
 0.75000    8.611801   277.332555    3.679210
438.641617    37.186424    3574.633
 1.00000    8.611801   305.658980    3.679210
443.151291    39.667120    3653.988

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.664751  -414.454414   -4.636948
-196.257374    -22.208348    -1682.935
 0.25000   -9.664751  -384.648139   -4.636948
-191.153866    -21.422285    -1705.978
 0.50000   -9.664751  -355.210130   -4.636948
-186.344619    -21.026969    -1728.838
 0.75000   -9.664751  -327.365445   -4.636948
-181.835275    -21.166383    -1751.931
 1.00000   -9.664751  -302.209457   -4.636948
-177.626350    -21.791756    -1774.831

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.380685   209.769169    3.570833
443.062320    37.844454    3461.664
 0.25000    8.380685   228.796322    3.570833
445.464313    37.501315    3624.135
 0.50000    8.380685   250.218936    3.570833
448.055369    37.916267    3770.806
 0.75000    8.380685   273.064855    3.570833
450.834116    39.365817    3906.383
 1.00000    8.380685   296.349241    3.570833
453.795337    41.681426    4020.711
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<               MOVING              LOAD                >
                                     990

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.093722  -416.440445   -5.456316
-366.768278    -29.288005    -1902.335
 0.25000   -12.093722   -391.939104   -5.456316
-363.357555    -26.945007    -1908.349
 0.50000   -12.093722   -367.741569   -5.456316
-360.141009    -25.178482    -1926.712
 0.75000   -12.093722   -344.853233   -5.456316
-357.120546    -24.222291    -1952.336
 1.00000   -12.093722   -324.175640   -5.456316
-354.301510    -23.836024    -1977.853

 COMB      DB ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.066480   197.527385    4.642659
549.903905    42.662874    3522.071
 0.25000    9.066480   228.678866    4.642659
530.347612    40.341724    3627.558
 0.50000    9.066480   266.806214    4.642659
515.999471    39.215558    3720.476
 0.75000    9.066480   308.229087    4.642659
501.725152    40.118274    3810.009
 1.00000    9.066480   351.625665    4.642659
487.431725    42.553750    3894.345

 COMB      DB ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.368152  -444.588751   -4.849370
-565.486069    -16.861309    -1227.136
 0.25000   -9.368152  -404.850725   -4.849370
-549.749053    -13.964112    -1156.938
 0.50000   -9.368152  -366.519750   -4.849370
-538.145462    -12.482812    -1086.740
 0.75000   -9.368152  -330.899505   -4.849370
-526.627116    -11.999363    -1016.541
 1.00000   -9.368152  -299.121968   -4.849370
-515.126991    -11.691814    -946.356943

 COMB      DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   12.403851   214.901815    4.742593
566.602545    42.945777    3471.551
 0.25000   12.403851   238.270676    4.742593
554.130183    41.474699    3638.071
 0.50000   12.403851   264.587426    4.742593
542.416955    40.705827    3786.431
 0.75000   12.403851   292.652500    4.742593
531.475533    40.945947    3920.810
 1.00000   12.403851   321.256286    4.742593
521.303604    42.224288    4030.936
```

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.093722	-428.659646	-5.456316
-595.215930	-29.288005	-1902.335	
0.25000	-12.093722	-398.561149	-5.456316
-585.619678	-26.945007	-1912.370	
0.50000	-12.093722	-368.835299	-5.456316
-576.600392	-25.178482	-1938.132	
0.75000	-12.093722	-345.619797	-5.456316
-568.165669	-24.816100	-1964.089	
1.00000	-12.093722	-325.158404	-5.456316
-560.316251	-25.775686	-1989.919	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.403851	214.901815	4.742593
566.602545	42.945777	3522.071	
0.25000	12.403851	238.270676	4.742593
554.130183	41.474699	3638.071	
0.50000	12.403851	266.806214	4.742593
542.416955	40.705827	3786.431	
0.75000	12.403851	308.229087	4.742593
531.475533	40.945947	3920.810	
1.00000	12.403851	351.625665	4.742593
521.303604	42.553750	4030.936	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 991

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.093722	-444.588751	-5.456316
-595.215930	-29.288005	-1902.335	
0.25000	-12.093722	-404.850725	-5.456316
-585.619678	-26.945007	-1912.370	
0.50000	-12.093722	-368.835299	-5.456316
-576.600392	-25.178482	-1938.132	
0.75000	-12.093722	-345.619797	-5.456316
-568.165669	-24.816100	-1964.089	
1.00000	-12.093722	-325.158404	-5.456316
-560.316251	-25.775686	-1989.919	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.403851	214.901815	4.742593
566.602545	42.945777	3522.071	
0.25000	12.403851	238.270676	4.742593
554.130183	41.474699	3638.071	
0.50000	12.403851	266.806214	4.742593
542.416955	40.705827	3786.431	
0.75000	12.403851	308.229087	4.742593
531.475533	40.945947	3920.810	
1.00000	12.403851	351.625665	4.742593
521.303604	42.553750	4030.936	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.093722	-444.588751	-5.456316
-595.215930	-29.288005	-1902.335	
0.25000	-12.093722	-404.850725	-5.456316
-585.619678	-26.945007	-1912.370	
0.50000	-12.093722	-368.835299	-5.456316
-576.600392	-25.178482	-1938.132	
0.75000	-12.093722	-345.619797	-5.456316
-568.165669	-24.816100	-1964.089	
1.00000	-12.093722	-325.158404	-5.456316
-560.316251	-25.775686	-1989.919	

ELEM 68 ========== LENGTH = 4.957689

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.857389	44.90421	2.013753
164.374469	7.124131	1187.981	
0.25000	3.857389	45.450265	2.013753
165.648924	5.646316	1175.808	
0.50000	3.857389	46.065887	2.013753
166.925299	4.960458	1171.329	
0.75000	3.857389	46.732460	2.013753
168.210796	5.241203	1177.859	
1.00000	3.857389	47.430025	2.013753
169.955122	5.759319	1192.167	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.384587	-48.581607	-1.183045
-168.703649	-6.150366	-355.201179	
0.25000	-3.384587	-47.883803	-1.183045
-166.959014	-5.869953	-328.214068	
0.50000	-3.384587	-47.217133	-1.183045
-165.672774	-6.065057	-328.192131	
0.75000	-3.384587	-46.601301	-1.183045
-164.396381	-6.970804	-358.146970	
1.00000	-3.384587	-46.055144	-1.183045
-163.121774	-8.363526	-388.101809	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.694787	123.700533	3.222984
336.212716	22.124135	2419.062	
0.25000	5.694787	129.158891	3.222984
347.686912	19.709807	2387.722	
0.50000	5.694787	135.315024	3.222984
359.177049	18.495692	2373.181	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 992

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	5.694787	141.980377	3.222984
370.755332	18.904825	2391.357	
1.00000	5.694787	148.953289	3.222984
386.459552	19.864184	2426.550	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.118410	-151.154273	-2.011980
-384.655652	-9.133126	-637.547752	
0.25000	-7.118410	-144.179129	-2.011980
-368.946193	-8.699846	-589.494501	
0.50000	-7.118410	-137.512740	-2.011980
-357.365311	-8.273545	-590.472885	
0.75000	-7.118410	-131.354438	-2.011980
-345.873494	-7.852378	-643.913524	
1.00000	-7.118410	-125.892896	-2.011980
-334.396646	-8.738321	-697.354164	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.030214	226.651747	4.762995
256.868001	40.847783	3553.198	
0.25000	9.030214	258.384283	4.762995
254.549753	37.684949	3596.881	
0.50000	9.030214	294.176916	4.762995
252.989946	36.238839	3605.978	
0.75000	9.030214	332.914008	4.762995
251.380857	36.953871	3601.361	
1.00000	9.030214	373.314465	4.762995
249.699179	38.787571	3562.894	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.900530	-376.360745	-3.671056
-248.305348	-10.943589	-859.342641	
0.25000	-9.900530	-335.955750	-3.671056
-249.995070	-10.421949	-794.943233	
0.50000	-9.900530	-297.208811	-3.671056
-251.620323	-9.903075	-797.232578	
0.75000	-9.900530	-261.400395	-3.671056
-253.206501	-9.674000	-868.957722	
1.00000	-9.900530	-229.646366	-3.671056
-255.540133	-10.417338	-940.682866	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.368491	235.642565	4.513962
338.161274	40.496415	3886.300	
0.25000	9.368491	261.738683	4.513962
338.161274	37.789735	3899.578	
0.50000	9.368491	291.171860	4.513962
338.161274	36.683776	3896.636	
0.75000	9.368491	323.026377	4.513962
338.161274	37.550612	3904.675	
1.00000	9.368491	356.250189	4.513962
338.161274	39.513797	3897.142	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.256495	-359.577419	-3.670665
-337.711639	-11.369219	-946.224882	
0.25000	-9.256495	-326.350340	-3.670665
-337.711639	-10.880381	-875.312134	
0.50000	-9.256495	-294.487229	-3.670665
-337.711639	-10.660012	-878.066403	
0.75000	-9.256495	-265.041113	-3.670665
-337.711639	-10.816973	-957.031425	
1.00000	-9.256495	-238.927237	-3.670665
-337.711639	-11.781906	-1035.996	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.508612	116.904730	1.992628
155.692670	22.896390	1536.808	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 993

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	3.508612	134.224034	1.992628
177.162890	21.695982	1557.677	
0.50000	3.508612	153.757512	1.992628
198.678818	21.113607	1560.209	
0.75000	3.508612	174.903328	1.992628
220.364338	21.289056	1559.325	
1.00000	3.508612	196.997410	1.992628
249.744903	22.088896	1540.440	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.938916	-198.214019	-1.702816
-249.432425	-3.623064	-328.767541	
0.25000	-4.938916	-176.114720	-1.702816
-220.041706	-3.423474	-304.337814	
0.50000	-4.938916	-154.964768	-1.702816
-198.341812	-3.227008	-305.769484	
0.75000	-4.938916	-135.423715	-1.702816
-176.816711	-3.031692	-333.036298	
1.00000	-4.938916	-118.093616	-1.702816
-155.341745	-2.945148	-360.303112	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.584953	228.399148	3.742984
150.155645	43.233496	3557.564	
0.25000	7.584953	263.048169	3.742984
150.155645	41.140303	3033.174	
0.50000	7.584953	302.127287	3.742984
150.155645	40.285023	3039.952	
0.75000	7.584953	344.422134	3.742984
150.155645	40.907525	3036.323	
1.00000	7.584953	388.533861	3.742984
150.155645	42.770408	2994.694	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.310601	-390.885914	-3.595947
-150.380276	-6.528350	-635.166525	
0.25000	-8.310601	-346.769170	-3.595947
-150.380276	-6.233819	-588.021938	
0.50000	-8.310601	-304.463580	-3.595947
-150.380276	-6.019844	-590.930298	
0.75000	-8.310601	-265.367295	-3.595947
-150.380276	-6.172597	-643.594724	
1.00000	-8.310601	-230.694667	-3.595947
-150.380276	-6.352000	-696.199149	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.456598	243.969554	4.151318
272.467424	43.541580	3680.656	
0.25000	8.456598	275.502860	4.151318
272.902020	40.821697	3711.324	
0.50000	8.456598	311.065986	4.151318
273.401666	39.611903	3712.706	
0.75000	8.456598	349.556068	4.151318
273.954130	40.312212	3715.838	
1.00000	8.456598	389.700040	4.151318
274.528704	42.136360	3690.348	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.801990	-392.771098	-3.528711
-273.869367	-10.106769	-854.692845	
0.25000	-8.801990	-352.622521	-3.528711
-273.279487	-9.642507	-790.874873	
0.50000	-8.801990	-314.122664	-3.528711
-272.700822	-9.250922	-793.779447	
0.75000	-8.801990	-278.543960	-3.528711
-272.185083	-9.186810	-864.918820	
1.00000	-8.801990	-246.989084	-3.528711
-271.742461	-9.151495	-936.058194	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 994

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.915349	235.232574	3.776086
333.735222	38.232164	3894.298	
0.25000	7.915349	261.798376	3.776086
333.735222	35.967331	3911.564	
0.50000	7.915349	291.760785	3.776086
333.735222	34.985295	3910.423	
0.75000	7.915349	324.188729	3.776086
333.735222	35.883635	3916.658	
1.00000	7.915349	358.009697	3.776086
333.735222	37.873905	3905.040	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.361286	-361.307215	-3.403821
-333.892531	-10.653855	-943.183946	
0.25000	-8.361286	-327.482400	-3.403821
-333.892531	-10.181478	-872.520282	
0.50000	-8.361286	-295.046219	-3.403821
-333.892531	-10.128573	-875.615068	
0.75000	-8.361286	-265.070648	-3.403821
-333.892531	-10.520003	-954.298597	
1.00000	-8.361286	-238.486745	-3.403821
-333.892531	-10.933743	-1032.982	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.551913	47.188387	0.963863
168.605320	4.971545	1227.545	
0.25000	2.551913	47.837709	0.963863
166.497693	4.672873	1214.481	
0.50000	2.551913	48.573251	0.963863
164.950518	4.597055	1209.908	
0.75000	2.551913	49.368967	0.963863
163.411799	5.189930	1216.438	
1.00000	2.551913	50.196051	0.963863
161.872383	6.245334	1231.567	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.669600	-51.302280	-1.611331
-163.040359	-5.633239	-1353.457929	
0.25000	-2.669600	-50.475293	-1.611331
-164.579907	-5.504041	-326.539253	
0.50000	-2.669600	-49.679288	-1.611331
-166.118593	-4.830137	-327.462949	
0.75000	-2.669600	-48.943352	-1.611331
-167.666665	-4.675071	-357.292697	
1.00000	-2.669600	-48.237932	-1.611331
-169.774632	-5.175807	-387.122445	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.417911	128.073433	1.971700
387.443818	18.586272	2449.193	
0.25000	5.417911	135.021426	1.971700
367.933446	17.742342	2422.944	
0.50000	5.417911	142.887365	1.971700
353.611102	17.501573	2410.585	
0.75000	5.417911	151.392225	1.971700
339.365932	18.518857	2426.393	
1.00000	5.417911	160.246811	1.971700
325.115206	20.401330	2456.420	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.844845	-162.329093	-2.842390
-326.951596	-7.635582	-626.107450	
0.25000	-4.844845	-153.480366	-2.842390
-341.205241	-6.380392	-578.906974	
0.50000	-4.844845	-144.967438	-2.842390
-355.452111	-6.455077	-581.032879	
0.75000	-4.844845	-137.097388	-2.842390
-369.777757	-7.494126	-633.487732	
1.00000	-4.844845	-130.146168	-2.842390
-389.294585	-8.536237	-685.942584	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 995

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.514542	228.115907	3.644613
242.233574	37.784905	3557.963	
0.25000	8.514542	260.129665	3.644613
243.259937	35.972301	3601.902	
0.50000	8.514542	296.233317	3.644613
244.352614	35.306557	3611.413	
0.75000	8.514542	335.308794	3.644613
245.502786	36.460483	3606.226	
1.00000	8.514542	376.063628	3.644613
246.887147	38.996798	3567.363	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.201332	-378.98791 2	-4.284211
-248.545723	-9.522685	-845.856629	
0.25000	-8.201332	-338.228377	-4.284211
-247.145817	-8.227829	-782.439562	
0.50000	-8.201332	-299.142984	-4.284211
-245.969047	-8.249727	-785.697683	
0.75000	-8.201332	-263.023541	-4.284211
-244.860023	-9.185960	-856.289355	
1.00000	-8.201332	-230.987826	-4.284211
-243.825503	-10.157190	-926.881027	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.204106	235.360463	3.681966
333.323803	39.110688	3886.149	
0.25000	8.204106	261.577113	3.681966
333.323803	37.000871	3900.081	
0.50000	8.204106	291.145440	3.681966
333.323803	36.010810	3897.695	
0.75000	8.204106	323.146957	3.681966
333.323803	36.914871	3905.101	
1.00000	8.204106	356.523248	3.681966
333.323803	39.095016	3896.842	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.565455	-359.796468	-3.988065
-334.000905	-11.167705	-941.408318	
0.25000	-9.565455	-326.416375	-3.988065
-334.000905	-9.923407	-870.802264	
0.50000	-9.565455	-294.467730	-3.988065
-334.000905	-9.782708	-874.058902	
0.75000	-9.565455	-264.825421	-3.988065
-334.000905	-10.400827	-952.651048	
1.00000	-9.565455	-238.590895	-3.988065
-334.000905	-11.042112	-1031.243	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.013745	64.576362	1.761244
198.879961	8.875975	1353.001	
0.25000	8.013745	65.004905	1.761244
199.944591	7.634139	1360.675	
0.50000	8.013745	65.482970	1.761244
201.091395	6.883932	1369.717	
0.75000	8.013745	65.989917	1.761244
202.319752	6.766049	1380.604	
1.00000	8.013745	66.506305	1.761244
203.630091	6.933430	1392.687	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.703614	-67.991523	-1.520574
-204.532484	-16.025846	-749.684539	
0.25000	-3.703614	-67.473943	-1.520574
-203.222275	-14.867255	-758.850071	
0.50000	-3.703614	-66.965374	-1.520574
-201.993850	-14.193213	-768.008445	
0.75000	-3.703614	-66.467140	-1.520574
-200.847617	-14.419215	-777.143020	
1.00000	-3.703614	-66.058002	-1.520574
-199.783349	-15.077417	-786.268010	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 996

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.417467	151.084534	2.868308
371.422383	25.785132	2589.412	
0.25000	9.417467	154.648738	2.868308
379.022227	23.920901	2592.779	
0.50000	9.417467	158.624756	2.868308
387.208369	22.733641	2603.493	
0.75000	9.417467	162.842217	2.868308
395.976769	22.485133	2628.442	
1.00000	9.417467	167.135585	2.868308
405.329883	22.699610	2660.664	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.926337	-169.808197	-2.520190
-406.192383	-21.642022	-1342.762	
0.25000	-9.926337	-165.503749	-2.520190
-396.841360	-20.481235	-1359.255	
0.50000	-9.926337	-161.274052	-2.520190
-388.072137	-19.526049	-1375.658	
0.75000	-9.926337	-157.296637	-2.520190
-379.890104	-19.248022	-1392.113	
1.00000	-9.926337	-153.727669	-2.520190
-372.291342	-19.613059	-1408.515	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.293533	246.720990	4.189497
322.013986	43.061019	3706.435	
0.25000	12.293533	270.791821	4.189497
317.159029	40.876597	3776.249	
0.50000	12.293533	297.583224	4.189497
312.620674	39.687355	3814.503	
0.75000	12.293533	326.040264	4.189497
308.390101	39.823105	3824.769	
1.00000	12.293533	354.979483	4.189497
304.467771	40.760053	3803.478	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.317560	-358.762730	-3.910075
-305.694763	-25.734659	-1826.742	
0.25000	-12.317560	-329.757284	-3.910075
-309.616492	-24.655883	-1849.085	
0.50000	-12.317560	-301.221619	-3.910075
-313.855111	-23.809663	-1871.519	
0.75000	-12.317560	-274.398896	-3.910075
-318.402259	-23.621668	-1893.992	
1.00000	-12.317560	-250.303132	-3.910075
-323.275347	-24.163525	-1916.295	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.829904	259.864484	4.101809
396.610164	43.314191	4025.767	
0.25000	12.829904	279.673875	4.101809
393.309624	41.67639	4075.299	
0.50000	12.829904	301.721699	4.101809
390.223786	40.943416	4107.949	
0.75000	12.829904	325.143942	4.101809
387.351076	41.557326	4128.513	
1.00000	12.829904	348.956352	4.101809
384.685919	42.901786	4131.145	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.204906	-353.008294	-3.932473
-385.944912	-26.633475	-1989.805	
0.25000	-11.204906	-329.138257	-3.932473
-388.613118	-25.988582	-2014.074	
0.50000	-11.204906	-305.654975	-3.932473
-391.491341	-25.635204	-2038.451	
0.75000	-11.204906	-283.581336	-3.932473
-394.585452	-25.900187	-2062.853	
1.00000	-11.204906	-263.750849	-3.932473
-397.896628	-26.781850	-2087.104	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 997

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.372376	115.743540	1.675212
149.989099	23.356329	1486.666	
0.25000	3.372376	129.197854	1.675212
169.264844	22.635667	1518.685	
0.50000	3.372376	144.189366	1.675212
189.995003	22.227180	1534.362	
0.75000	3.372376	160.101822	1.675212
212.215164	22.267403	1536.788	
1.00000	3.372376	176.293731	1.675212
235.883914	22.622457	1522.914	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.038114	-177.724069	-1.595568
-235.717756	-7.563206	-683.778197	
0.25000	-8.038114	-161.507094	-1.595568
-212.036259	-7.342944	-692.183397	
0.50000	-8.038114	-145.547908	-1.595568
-189.829754	-7.126215	-700.602836	
0.75000	-8.038114	-130.546828	-1.595568
-169.091546	-6.913767	-709.073454	
1.00000	-8.038114	-117.061408	-1.595568
-149.833735	-6.737793	-717.460579	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.152396	227.375295	3.279622
149.170557	42.535896	2919.599	
0.25000	8.152396	254.299643	3.279622
149.170557	41.447627	2984.451	
0.50000	8.152396	284.257960	3.279622
149.170557	41.060451	3015.818	
0.75000	8.152396	316.084228	3.279622
149.170557	41.608205	3019.818	
1.00000	8.152396	348.439305	3.279622
149.170557	42.854887	2990.537	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.513213	-351.290957	-3.290899
-149.710135	-14.629778	-1335.497	
0.25000	-10.513213	-318.853960	-3.290899
-149.710135	-14.468227	-1351.825	
0.50000	-10.513213	-286.944987	-3.290899
-149.710135	-14.389349	-1368.321	
0.75000	-10.513213	-256.951361	-3.290899
-149.710135	-14.505998	-1384.782	
1.00000	-10.513213	-230.001498	-3.290899
-149.710135	-14.706876	-1401.104	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.914716	257.857638	3.701131
293.768330	45.830438	3736.858	
0.25000	9.914716	282.442188	3.701131
294.401521	44.093406	3798.658	
0.50000	9.914716	309.805048	3.701131
295.076983	43.156865	3833.394	
0.75000	9.914716	338.869119	3.701131
295.789443	43.295956	3846.340	
1.00000	9.914716	368.415987	3.701131
296.534820	44.074889	3832.379	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.575878	-372.147901	-3.559381
-297.569663	-22.519378	-1799.566	
0.25000	-11.575878	-342.538969	-3.559381
-296.812963	-21.813985	-1821.555	
0.50000	-11.575878	-313.399434	-3.559381
-296.092065	-21.188049	-1843.668	
0.75000	-11.575878	-286.008991	-3.559381
-295.411057	-20.740382	-1865.782	
1.00000	-11.575878	-261.383547	-3.559381
-294.774429	-20.382156	-1887.803	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
998

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.302742	258.527485	3.567343
366.229277	41.550266	4030.889	
0.25000	9.302742	279.318270	3.567343
366.229277	40.469451	4084.933	
0.50000	9.302742	302.451865	3.567343
366.229277	40.073365	4118.989	
0.75000	9.302742	327.027877	3.567343
366.229277	40.715308	4137.245	
1.00000	9.302742	352.012232	3.567343
366.229277	41.941596	4135.692	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.763076	-356.025983	-3.527974
-367.054562	-23.536118	-1983.608	
0.25000	-10.763076	-330.978370	-3.527974
-367.054562	-23.302948	-2007.772	
0.50000	-10.763076	-306.338493	-3.527974
-367.054562	-23.268244	-2032.037	
0.75000	-10.763076	-283.177634	-3.527974
-367.054562	-23.447395	-2056.315	
1.00000	-10.763076	-262.367146	-3.527974
-367.054562	-23.698971	-2080.520	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.498600	66.169083	1.342606
198.762199	6.567305	1380.031	
0.25000	2.498600	66.690952	1.342606
197.147422	6.666352	1386.579	
0.50000	2.498600	67.274070	1.342606
195.634454	7.000628	1394.930	
0.75000	2.498600	67.893743	1.342606
194.221693	7.765605	1405.872	
1.00000	2.498600	68.523050	1.342606
192.910558	8.859955	1418.546	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.770694	-69.851127	-1.568517
-192.730138	-11.238308	-742.031651	
0.25000	-3.770694	-69.219829	-1.568517
-194.041640	-10.858110	-751.043121	
0.50000	-3.770694	-68.599003	-1.568517
-195.454576	-10.885131	-759.976619	
0.75000	-3.770694	-68.014945	-1.568517
-196.968638	-11.477920	-769.002141	
1.00000	-3.770694	-67.492954	-1.568517
-198.584329	-12.503661	-777.989888	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.034453	152.604957	2.453344
395.548435	20.571929	2593.298	
0.25000	7.034453	157.333069	2.453344
383.339678	20.578916	2598.929	
0.50000	7.034453	162.611749	2.453344
371.899233	21.067208	2610.148	
0.75000	7.034453	168.220568	2.453344
361.223894	22.325043	2633.291	
1.00000	7.034453	173.918377	2.453344
351.315204	24.156707	2661.924	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.695566	-176.413694	-2.791330
-351.701469	-17.165409	-1311.151	
0.25000	-5.695566	-170.698792	-2.791330
-361.613041	-16.998835	-1327.103	
0.50000	-5.695566	-165.078622	-2.791330
-372.293604	-17.295938	-1342.992	
0.75000	-5.695566	-159.791336	-2.791330
-383.738886	-18.263604	-1358.965	
1.00000	-5.695566	-155.061919	-2.791330
-395.954966	-19.620391	-1374.857	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
999

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.155097	243.910294	3.748487
287.585382	38.541415	3653.577	
0.25000	9.155097	268.252929	3.748487
291.520608	37.949564	3722.967	
0.50000	9.155097	295.360366	3.748487
295.753274	38.131271	3760.661	
0.75000	9.155097	324.142893	3.748487
300.272915	39.444535	3769.613	
1.00000	9.155097	353.403109	3.748487
305.080728	41.624711	3746.954	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.225641	-356.951796	-4.022660
-305.505807	-20.945002	-1774.899	
0.25000	-10.225641	-327.630015	-4.022660
-300.681759	-20.685265	-1796.490	
0.50000	-10.225641	-298.772989	-4.022660
-296.154137	-20.841016	-1818.183	
0.75000	-10.225641	-271.648027	-4.022660
-291.917965	-21.749267	-1839.959	
1.00000	-10.225641	-247.254513	-4.022660
-287.987105	-22.996952	-1861.533	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.894364	258.982832	3.760399
381.740526	42.458320	4020.510	
0.25000	8.894364	278.999537	3.760399
384.354476	41.446360	4070.947	
0.50000	8.894364	301.273711	3.760399
387.162428	41.129175	4103.354	
0.75000	8.894364	324.932961	3.760399
390.162527	41.931173	4123.034	
1.00000	8.894364	348.984953	3.760399
393.349439	43.534173	4124.772	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.563277	-352.917649	-3.946256
-393.887739	-24.364293	-1977.852	
0.25000	-12.563277	-328.815070	-3.946256
-390.692179	-23.757207	-2001.954	
0.50000	-12.563277	-305.094538	-3.946256
-387.686231	-23.504195	-2026.163	
0.75000	-12.563277	-282.797778	-3.946256
-384.874027	-23.893179	-2050.391	
1.00000	-12.563277	-262.747542	-3.946256
-382.258732	-24.576820	-2074.466	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.368491	243.969554	4.762995
387.443818	43.541580	3894.298	
0.25000	9.368491	275.502860	4.762995
367.933446	41.140303	3911.564	
0.50000	9.368491	311.065986	4.762995
359.177049	40.285023	3910.423	
0.75000	9.368491	349.556068	4.762995
370.755332	40.907525	3916.658	
1.00000	9.368491	389.700040	4.762995
386.459552	42.770408	3905.040	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.900530	-392.771098	-4.284211
-384.655652	-11.369219	-946.224882	
0.25000	-9.900530	-352.622521	-4.284211
-368.946193	-10.880381	-875.312134	
0.50000	-9.900530	-314.122668	-4.284211
-357.365311	-10.660012	-878.066403	
0.75000	-9.900530	-278.543960	-4.284211
-369.777757	-10.816673	-957.031425	
1.00000	-9.900530	-246.989084	-4.284211
-389.294585	-11.781906	-1035.996	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.829904	259.864484	4.189497
396.610164	45.830438	4030.889	
0.25000	12.829904	282.442188	4.189497
393.309624	44.093406	4084.933	
0.50000	12.829904	309.805048	4.189497
390.223786	43.156865	4118.989	
0.75000	12.829904	338.869119	4.189497
395.976769	43.295956	4137.245	
1.00000	12.829904	368.415987	4.189497
405.329883	44.074889	4135.692	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.563277	-372.147901	-4.022660
-406.192383	-26.633475	-1989.805	
0.25000	-12.563277	-342.538969	-4.022660
-396.841360	-25.988582	-2014.074	
0.50000	-12.563277	-313.399434	-4.022660
-391.491341	-25.635204	-2038.451	
0.75000	-12.563277	-286.008991	-4.022660
-394.585452	-25.900187	-2062.853	
1.00000	-12.563277	-263.750849	-4.022660
-397.896628	-26.781850	-2087.104	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.829904	259.864484	4.762995
396.610164	45.830438	4030.889	
0.25000	12.829904	282.442188	4.762995
393.309624	44.093406	4084.933	
0.50000	12.829904	311.065986	4.762995
390.223786	43.156865	4118.989	
0.75000	12.829904	349.556068	4.762995
395.976769	43.295956	4137.245	
1.00000	12.829904	389.700040	4.762995
405.329883	44.074889	4135.692	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.563277	-392.771098	-4.284211
-406.192383	-26.633475	-1989.805	
0.25000	-12.563277	-352.622521	-4.284211
-396.841360	-25.988582	-2014.074	
0.50000	-12.563277	-314.122668	-4.284211
-391.491341	-25.635204	-2038.451	
0.75000	-12.563277	-286.008991	-4.284211
-394.585452	-25.900187	-2062.853	
1.00000	-12.563277	-263.750849	-4.284211
-397.896628	-26.781850	-2087.104	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.829904	259.864484	4.762995
396.610164	45.830438	4030.889	
0.25000	12.829904	282.442188	4.762995
393.309624	44.093406	4084.933	
0.50000	12.829904	311.065986	4.762995
390.223786	43.156865	4118.989	
0.75000	12.829904	349.556068	4.762995
395.976769	43.295956	4137.245	
1.00000	12.829904	389.700040	4.762995
405.329883	44.074889	4135.692	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.563277	-392.771098	-4.284211
-406.192383	-26.633475	-1989.805	
0.25000	-12.563277	-352.622521	-4.284211
-396.841360	-25.988582	-2014.074	
0.50000	-12.563277	-314.122668	-4.284211
-391.491341	-25.635204	-2038.451	
0.75000	-12.563277	-286.008991	-4.284211
-394.585452	-25.900187	-2062.853	
1.00000	-12.563277	-263.750849	-4.284211
-397.896628	-26.781850	-2087.104	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1001

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 69 ========== LENGTH = 4.957308

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.837790	66.254334	1.452319
289.715887	6.016467	1191.667	
0.25000	3.837790	66.804480	1.452319
290.993466	6.250247	1144.178	
0.50000	3.837790	67.421257	1.452319
292.272613	6.618634	1104.066	
0.75000	3.837790	68.085343	1.452319
293.561372	7.147546	1073.217	
1.00000	3.837790	68.776502	1.452319
295.308915	7.953056	1052.103	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.597820	-27.222108	-1.627516
-74.440607	-6.733649	-388.216183	
0.25000	-3.597820	-26.535287	-1.627516
-72.696865	-5.949080	-418.616143	
0.50000	-3.597820	-25.881642	-1.627516
-71.414354	-5.639200	-449.016104	
0.75000	-3.597820	-25.280078	-1.627516
-70.145723	-5.940612	-479.416064	
1.00000	-3.597820	-24.748517	-1.627516
-68.882992	-6.856660	-509.816024	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.819482	162.175417	2.965847
517.553839	20.459472	2425.766	
0.25000	5.819482	167.676762	2.965847
529.054032	19.577436	2330.833	
0.50000	5.819482	173.844416	2.965847
540.573780	19.124123	2255.771	
0.75000	5.819482	180.484861	2.965847
552.177641	19.244468	2209.955	
1.00000	5.819482	187.393443	2.965847
567.912964	19.988804	2182.842	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.311340	-113.644886	-2.018421
-227.391449	-8.076794	-697.508541	
0.25000	-7.311340	-106.778515	-2.018421
-211.694061	-7.373740	-751.002688	
0.50000	-7.311340	-100.242628	-2.018421
-200.147543	-7.400662	-804.496834	
0.75000	-7.311340	-94.227268	-2.018421
-188.725747	-8.537951	-857.990980	
1.00000	-7.311340	-88.911929	-2.018421
-177.360161	-11.006484	-911.485127	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.436525	278.894471	4.630306
412.949467	38.931492	3562.403	
0.25000	9.436525	310.875099	4.630306
410.521671	36.985016	3520.330	
0.50000	9.436525	346.732974	4.630306
408.802940	36.017024	3454.729	
0.75000	9.436525	385.323472	4.630306
407.056923	36.270715	3365.768	
1.00000	9.436525	425.335011	4.630306
405.259928	37.720353	3245.435	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.453417	-325.162312	-3.543080
-117.702225	-9.742145	-940.810951	
0.25000	-10.453417	-285.387203	-3.543080
-117.702225	-9.742145	-1011.909	
0.50000	-10.453417	-247.412689	-3.543080
-117.702225	-9.994258	-1083.006	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1002

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.686727	293.214212	4.408458
415.048973	38.598913	3896.926	
0.25000	9.686727	319.514486	4.408458
414.542158	36.873063	3814.590	
0.50000	9.686727	349.001334	4.408458
414.051136	36.197829	3727.769	
0.75000	9.686727	380.735863	4.408458
413.566946	36.740065	3641.533	
1.00000	9.686727	413.639476	4.408458
413.493456	38.540300	3544.748	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.796833	-303.752088	-3.763661
-285.021084	-10.662995	-1036.044	
0.25000	-9.796893	-271.046108	-3.763661
-285.021084	-10.685766	-1114.328	
0.50000	-9.796893	-239.818067	-3.763661
-285.021084	-11.238659	-1192.612	
0.75000	-9.796893	-211.066274	-3.763661
-285.021084	-12.303761	-1270.896	
1.00000	-9.796893	-185.662252	-3.763661
-285.021084	-14.497605	-1349.181	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.786912	137.032424	2.289539
195.907088	22.371128	1540.183	
0.25000	3.786912	154.487766	2.289539
217.430514	20.709654	1528.469	
0.50000	3.786912	174.057421	2.289539
239.003375	19.568938	1504.698	
0.75000	3.786912	195.123827	2.289539
260.749356	19.081184	1472.885	
1.00000	3.786912	217.010517	2.289539
290.184841	19.169847	1424.290	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.118138	-179.019325	-1.101220
-209.396067	-3.446390	-360.327252	
0.25000	-5.118138	-157.264580	-1.101220
-180.052381	-3.722894	-386.951349	
0.50000	-5.118138	-136.531716	-1.101220
-158.452598	-4.191099	-413.575446	
0.75000	-5.118138	-117.447156	-1.101220
-137.096143	-5.390693	-440.199543	
1.00000	-5.118138	-100.583896	-1.101220
-115.855791	-6.689375	-466.823639	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.045373	267.380595	4.070089
157.135224	42.293219	2994.781	
0.25000	8.045373	302.300731	4.070089
157.135224	39.686115	2976.824	
0.50000	8.045373	341.451118	4.070089
157.135224	38.218047	2932.951	
0.75000	8.045373	383.586010	4.070089
157.135224	38.174888	2869.472	
1.00000	8.045373	427.273309	4.070089
157.135224	39.410837	2770.287	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.758541	-353.735124	-3.103856
-148.795505	-6.471140	-696.191586	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1003

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-8.758541	-310.306016	-3.103856
-148.795505	-7.025322	-747.503573	
0.50000	-8.758541	-268.843581	-3.103856
-148.795505	-7.749558	-798.815561	
0.75000	-8.758541	-230.669107	-3.103856
-148.795505	-9.128044	-850.127548	
1.00000	-8.758541	-196.938969	-3.103856
-148.795505	-10.550481	-901.439536	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.965072	295.946185	4.460694
369.571470	41.804744	3690.067	
0.25000	8.965072	327.726362	4.460694
370.002577	39.573768	3634.710	
0.50000	8.965072	363.354366	4.460694
370.523171	38.447229	3564.249	
0.75000	8.965072	401.695945	4.460694
371.118619	38.632900	3483.259	
1.00000	8.965072	441.456796	4.460694
371.685589	40.003363	3378.264	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.309473	-342.705141	-3.185287
-186.514245	-9.505581	-936.129181	
0.25000	-9.309473	-303.182280	-3.185287
-186.514245	-9.502063	-1006.204	
0.50000	-9.309473	-265.449605	-3.185287
-186.514245	-9.764713	-1076.280	
0.75000	-9.309473	-230.709604	-3.185287
-186.514245	-10.646917	-1146.355	
1.00000	-9.309473	-200.012422	-3.185287
-186.514245	-12.294295	-1216.430	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.425993	292.697232	4.076102
348.868642	36.646173	3905.064	
0.25000	8.425993	319.470902	4.076102
348.868642	34.972186	3826.266	
0.50000	8.425993	349.487953	4.076102
348.868642	34.287068	3741.722	
0.75000	8.425993	381.793258	4.076102
348.868642	34.708027	3653.848	
1.00000	8.425993	415.288812	4.076102
348.868642	36.144117	3552.988	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.862530	-305.774862	-3.039616
-333.537089	-10.134309	-1032.961	
0.25000	-8.862530	-272.477265	-3.039616
-333.537089	-10.623597	-1110.915	
0.50000	-8.862530	-240.687541	-3.039616
-333.537089	-11.335338	-1188.868	
0.75000	-8.862530	-211.418733	-3.039616
-333.537089	-12.566710	-1266.822	
1.00000	-8.862530	-185.557448	-3.039616
-333.537089	-14.435419	-1344.775	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.754784	69.133329	1.006795
69.826947	4.910847	1231.998	
0.25000	2.754784	69.787479	1.006795
67.715905	5.044393	1182.585	
0.50000	2.754784	70.524323	1.006795
66.166034	5.312981	1141.528	
0.75000	2.754784	71.316990	1.006795
64.630925	5.752147	1110.073	
1.00000	2.754784	72.135750	1.006795
63.100920	6.393733	1088.304	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1004

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.867727	-29.534802	-1.456108
-280.111900	-7.062868	-386.982235	
0.25000	-2.867727	-28.720699	-1.456108
-281.655669	-6.259698	-417.350496	
0.50000	-2.867727	-27.940870	-1.456108
-283.197603	-5.874190	-447.726778	
0.75000	-2.867727	-27.222586	-1.456108
-284.747085	-6.100918	-478.115057	
1.00000	-2.867727	-26.590719	-1.456108
-286.858994	-7.010194	-508.503336	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.687565	166.671539	1.968360
236.557999	18.198010	2457.128	
0.25000	5.687565	173.671617	1.968360
217.010000	17.815956	2366.761	
0.50000	5.687565	181.551539	1.968360
202.660262	18.001139	2294.236	
0.75000	5.687565	190.028949	1.968360
188.447443	18.902878	2245.893	
1.00000	5.687565	198.789901	1.968360
174.277409	20.536698	2213.002	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.202857	-124.932387	-2.850398
-488.788758	-8.165060	-685.757763	
0.25000	-5.202857	-116.221517	-2.850398
-503.084298	-7.474791	-738.276958	
0.50000	-5.202857	-107.881147	-2.850398
-517.355191	-8.434743	-790.800152	
0.75000	-5.202857	-100.199428	-2.850398
-531.698739	-9.662846	-843.324099	
1.00000	-5.202857	-93.437868	-2.850398
-551.248928	-10.894685	-895.862486	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.067268	280.239091	3.828188
123.668679	37.002228	3567.931	
0.25000	9.067268	312.503574	3.828188
124.693019	35.277056	3526.235	
0.50000	9.067268	348.673105	3.828188
125.808214	34.586108	3461.406	
0.75000	9.067268	387.600909	3.828188
127.003039	35.177119	3372.100	
1.00000	9.067268	427.963838	3.828188
128.381168	36.984628	3251.166	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.804283	-328.141583	-3.863800
-377.021035	-10.029543	-926.721793	
0.25000	-8.804283	-288.017238	-3.863800
-375.728998	-9.690822	-996.738950	
0.50000	-8.804283	-249.710602	-3.863800
-375.682875	-11.053116	-1066.756	
0.75000	-8.804283	-214.442498	-3.863800
-375.682875	-12.496976	-1136.773	
1.00000	-8.804283	-183.277514	-3.863800
-375.682875	-13.959575	-1206.805	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.746591	292.984994	4.303721
297.228744	37.927214	3897.068	
0.25000	8.746591	319.406800	4.303721
297.228743	36.009941	3815.428	
0.50000	8.746591	349.029054	4.303721
297.228743	35.030592	3729.035	
0.75000	8.746591	380.909554	4.303721
297.228743	35.341127	3642.222	
1.00000	8.746591	413.964729	4.303721
297.228743	36.799963	3543.950	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1005

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.038259	-303.957108	-3.483104
-385.927219	-11.198871	-1031.161	
0.25000	-10.038259	-271.097291	-3.483104
-385.927219	-10.752755	-1109.158	
0.50000	-10.038259	-239.725592	-3.483104
-385.927219	-11.978105	-1187.155	
0.75000	-10.038259	-210.841715	-3.483104
-385.927219	-14.379442	-1265.152	
1.00000	-10.038259	-185.320303	-3.483104
-385.927219	-16.828521	-1343.162	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.109196	89.536092	1.251368
331.255073	8.218001	1391.987	
0.25000	8.109196	89.979515	1.251368
332.354114	8.050716	1353.852	
0.50000	8.109196	90.469648	1.251368
333.535482	8.211285	1317.406	
0.75000	8.109196	90.987094	1.251368
334.799211	8.816999	1282.919	
1.00000	8.109196	91.512242	1.251368
336.145363	9.981932	1250.184	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.922695	-46.933341	-2.450100
-107.104913	-15.931956	-786.058466	
0.25000	-3.922695	-46.461979	-2.450100
-105.826863	-14.695089	-796.253170	
0.50000	-3.922695	-45.941053	-2.450100
-104.630724	-12.046376	-806.451565	
0.75000	-3.922695	-45.481667	-2.450100
-103.516502	-11.408037	-816.628134	
1.00000	-3.922695	-45.072760	-2.450100
-102.483331	-11.376725	-826.825881	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.707524	193.693276	3.392292
557.490733	24.791564	2659.728	
0.25000	9.707524	197.381238	3.392292
565.339508	23.023011	2584.239	
0.50000	9.707524	201.457926	3.392292
573.776911	21.958359	2515.805	
0.75000	9.707524	205.760815	3.392292
582.800283	21.861367	2461.850	
1.00000	9.707524	210.128227	3.392292
592.413554	21.806259	2416.392	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.202049	-133.561051	-2.829962
-254.269333	-21.328443	-1408.212	
0.25000	-10.202049	-129.391387	-2.829962
-245.151511	-19.797038	-1424.871	
0.50000	-10.202049	-125.308475	-2.829962
-236.617282	-19.249211	-1441.518	
0.75000	-10.202049	-121.401334	-2.829962
-228.667735	-19.927490	-1458.131	
1.00000	-10.202049	-118.087146	-2.829962
-221.300710	-21.233154	-1474.757	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.848173	302.096005	4.670545
479.627096	42.208176	3802.774	
0.25000	12.848173	326.967515	4.670545
474.653598	40.153470	3767.721	
0.50000	12.848173	354.460179	4.670545
470.008051	39.045205	3701.372	
0.75000	12.848173	383.474881	4.670545
465.685068	38.967044	3607.522	
1.00000	12.848173	412.923514	4.670545
461.680458	39.863468	3484.060	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1006

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.883909	-309.378005	-4.171366
-177.597413	-25.587485	-1916.043	
0.25000	-12.883909	-281.258837	-4.171366
-181.485075	-24.366421	-1937.206	
0.50000	-12.883909	-253.721215	-4.171366
-185.676088	-23.978806	-1958.297	
0.75000	-12.883909	-227.949604	-4.171366
-190.175671	-24.610503	-1979.373	
1.00000	-12.883909	-205.026759	-4.171366
-194.988521	-25.830273	-2000.430	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.310146	320.626812	4.449659
479.699886	42.689257	4130.837	
0.25000	13.310146	341.095911	4.449659
476.286523	41.307928	4067.407	
0.50000	13.310146	363.720083	4.449659
473.100385	40.884898	3983.841	
0.75000	13.310146	387.598409	4.449659
470.135502	41.641872	3890.062	
1.00000	13.310146	411.833081	4.449659
467.386258	43.315574	3780.364	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.742763	-299.633880	-4.577155
-334.400316	-26.728808	-2086.991	
0.25000	-11.742763	-276.493298	-4.577155
-337.018727	-25.718959	-2109.832	
0.50000	-11.742763	-253.831320	-4.577155
-339.843785	-25.513048	-2132.642	
0.75000	-11.742763	-232.622688	-4.577155
-342.878929	-26.225826	-2155.398	
1.00000	-11.742763	-213.757571	-4.577155
-346.128165	-27.454171	-2178.159	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.647171	135.326143	2.796310
187.553094	23.116076	1522.753	
0.25000	3.647171	149.241520	2.796310
207.470939	21.251061	1517.468	
0.50000	3.647171	164.618191	2.796310
228.874454	19.961864	1495.370	
0.75000	3.647171	180.847416	2.796310
251.760958	19.171767	1460.850	
1.00000	3.647171	197.322131	2.796310
276.141760	18.737896	1410.585	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.243188	-159.870138	-0.969103
-197.510690	-7.466308	-717.397373	
0.25000	-8.243188	-144.141410	-0.969103
-174.455704	-8.197279	-724.531146	
0.50000	-8.243188	-128.739550	-0.969103
-152.874270	-9.332429	-731.625275	
0.75000	-8.243188	-114.326778	-0.969103
-132.770503	-10.844117	-738.699707	
1.00000	-8.243188	-101.493790	-0.969103
-114.139234	-12.465346	-745.801153	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.644240	265.521252	4.172706
157.132660	42.488818	2990.614	
0.25000	8.644240	293.341764	4.172706
157.132660	40.600399	2982.535	
0.50000	8.644240	324.083639	4.172706
157.132660	39.706576	2940.087	
0.75000	8.644240	356.529396	4.172706
157.132660	39.818589	2871.884	
1.00000	8.644240	389.457586	4.172706
157.132660	40.663604	2771.567	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1007

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.980989	-316.467101	-3.101469
-148.697128	-14.847837	-1401.102	
0.25000	-10.980989	-285.021409	-3.101469
-148.697128	-15.379679	-1414.670	
0.50000	-10.980989	-254.229275	-3.101469
-148.697128	-16.345404	-1428.219	
0.75000	-10.980989	-225.412051	-3.101469
-148.697128	-17.711417	-1441.719	
1.00000	-10.980989	-199.759125	-3.101469
-148.697128	-19.210391	-1455.206	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.428841	311.269264	4.594881
391.525573	45.101475	3831.979	
0.25000	10.428841	336.677100	4.594881
392.337381	43.065404	3793.464	
0.50000	10.428841	364.750898	4.594881
393.197520	41.918162	3725.150	
0.75000	10.428841	394.380629	4.594881
394.100975	41.755233	3635.863	
1.00000	10.428841	424.450926	4.594881
395.043769	42.406382	3522.961	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.030128	-324.325401	-3.490246
-216.653605	-22.127327	-1887.648	
0.25000	-12.030128	-295.610745	-3.490246
-216.156482	-22.019422	-1907.412	
0.50000	-12.030128	-267.490129	-3.490246
-216.028852	-22.348594	-1927.172	
0.75000	-12.030128	-241.173037	-3.490246
-215.938186	-23.274356	-1946.865	
1.00000	-12.030128	-217.745958	-3.490246
-215.884856	-24.709465	-1971.975	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.799504	318.900971	4.295832
388.436749	41.023782	4135.713	
0.25000	9.799504	340.383768	4.295832
388.436749	39.808663	4077.537	
0.50000	9.799504	364.122419	4.295832
388.436749	39.331452	3995.365	
0.75000	9.799504	389.176797	4.295832
388.436749	39.682842	3899.204	
1.00000	9.799504	414.603705	4.295832
388.436749	40.752179	3784.546	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.206533	-302.570336	-3.471023
-375.401685	-23.450885	-2080.511	
0.25000	-11.206533	-278.288998	-3.471023
-375.401685	-23.869918	-2103.066	
0.50000	-11.206533	-254.510740	-3.471023
-375.401685	-24.653457	-2125.635	
0.75000	-11.206533	-232.258290	-3.471023
-375.401685	-25.933423	-2148.145	
1.00000	-11.206533	-212.449287	-3.471023
-375.401685	-27.642428	-2175.156	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.692362	91.510487	1.548746
101.413446	6.902532	1419.133	
0.25000	2.692362	92.048781	1.548746
99.829307	7.042821	1379.135	
0.50000	2.692362	92.647061	1.548746
98.346119	7.381425	1341.521	
0.75000	2.692362	93.279016	1.548746
96.963826	7.947825	1306.666	
1.00000	2.692362	93.919116	1.548746
95.683562	8.743895	1273.148	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1008

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.959497	-48.517672	-1.393499
-318.258702	-11.961997	-778.182335	
0.25000	-3.959497	-47.905589	-1.393499
-319.605650	-11.960882	-788.582806	
0.50000	-3.959497	-47.306280	-1.393499
-321.054225	-12.389592	-798.955591	
0.75000	-3.959497	-46.745537	-1.393499
-322.604237	-13.344988	-809.327410	
1.00000	-3.959497	-46.248454	-1.393499
-324.254805	-14.630029	-819.701353	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.297675	194.805859	2.536224
256.030921	21.067437	2662.766	
0.25000	7.297675	199.688903	2.536224
244.040380	21.309519	2590.735	
0.50000	7.297675	205.105078	2.536224
232.822309	22.233024	2523.229	
0.75000	7.297675	210.820077	2.536224
222.375256	23.840926	2467.930	
1.00000	7.297675	216.620474	2.536224
212.691226	25.927505	2419.410	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.038569	-140.628185	-3.264187
-521.547142	-18.182399	-1375.132	
0.25000	-6.038569	-135.088704	-3.264187
-531.734124	-17.806474	-1391.021	
0.50000	-6.038569	-129.663256	-3.264187
-542.677590	-18.061129	-1406.972	
0.75000	-6.038569	-124.585310	-3.264187
-554.383481	-18.180195	-1429.982	
1.00000	-6.038569	-120.081714	-3.264187
-566.856639	-20.472355	-1448.150	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.715827	298.299175	4.260804
177.096866	38.889711	3747.704	
0.25000	9.715827	323.467515	4.260804
181.305537	38.080282	3714.687	
0.50000	9.715827	351.269390	4.260804
185.817822	38.108835	3649.312	
0.75000	9.715827	380.612146	4.260804
190.629399	39.131984	3556.035	
1.00000	9.715827	410.392099	4.260804
195.735714	40.940097	3432.835	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.802179	-308.590262	-3.898993
-442.221619	-21.958793	-1861.757	
0.25000	-10.802179	-280.152819	-3.898993
-437.730000	-22.307610	-1882.141	
0.50000	-10.802179	-252.309459	-3.898993
-433.516558	-23.207199	-1902.559	
0.75000	-10.802179	-226.243529	-3.898993
-429.587423	-24.823293	-1922.917	
1.00000	-10.802179	-203.035955	-3.898993
-425.950557	-26.652476	-1943.253	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.426935	319.771292	4.965370
352.949414	42.418608	4125.066	
0.25000	9.426935	340.458329	4.965370
355.769344	40.782404	4062.462	
0.50000	9.426935	363.311479	4.965370
358.790251	40.036205	3978.874	
0.75000	9.426935	387.431332	4.965370
362.009929	40.360681	3884.277	
1.00000	9.426935	411.911237	4.965370
365.422898	41.433386	3773.303	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1009

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.049931	-299.550499	-3.594635
-452.135647	-24.826391	-2074.544	
0.25000	-13.049931	-276.175637	-3.594635
-449.191924	-25.241007	-2104.763	
0.50000	-13.049931	-253.284427	-3.594635
-446.428799	-26.490409	-2133.455	
0.75000	-13.049931	-231.861408	-3.594635
-443.852607	-28.825875	-2162.104	
1.00000	-13.049931	-212.786234	-3.594635
-441.467590	-31.397828	-2190.712	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.686727	295.946185	4.630306
517.553839	42.293219	3905.064	
0.25000	9.686727	327.726362	4.630306
529.054032	39.686115	3826.266	
0.50000	9.686727	363.354366	4.630306
540.573780	38.447229	3741.722	
0.75000	9.686727	401.698945	4.630306
552.177641	38.632900	3653.848	
1.00000	9.686727	441.456796	4.630306
567.912964	40.003363	3552.988	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.453417	-353.735124	-3.863800
-488.788758	-11.198871	-1036.044	
0.25000	-10.453417	-310.306016	-3.863800
-503.084298	-10.752755	-1114.328	
0.50000	-10.453417	-268.843581	-3.863800
-517.355191	-11.978105	-1192.612	
0.75000	-10.453417	-230.709604	-3.863800
-531.698739	-14.379442	-1270.896	
1.00000	-10.453417	-200.012422	-3.863800
-551.248928	-16.828521	-1349.181	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.310146	320.626812	4.965370
557.490733	45.101475	4135.713	
0.25000	13.310146	341.095911	4.965370
565.339508	43.065404	4077.537	
0.50000	13.310146	364.750898	4.965370
573.776911	41.918162	3995.365	
0.75000	13.310146	394.380629	4.965370
582.800283	41.755233	3899.204	
1.00000	13.310146	424.450926	4.965370
592.413554	43.315574	3784.546	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.049931	-324.325401	-4.577155
-521.547142	-26.728808	-2086.991	
0.25000	-13.049931	-295.610745	-4.577155
-531.734124	-25.718959	-2109.832	
0.50000	-13.049931	-267.490129	-4.577155
-542.677590	-26.490409	-2133.455	
0.75000	-13.049931	-241.173037	-4.577155
-554.383481	-28.825875	-2162.104	
1.00000	-13.049931	-217.745958	-4.577155
-566.856639	-31.397828	-2190.712	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.310146	320.626812	4.965370
557.490733	45.101475	4135.713	
0.25000	13.310146	341.095911	4.965370
565.339508	43.065404	4077.537	
0.50000	13.310146	364.750898	4.965370
573.776911	41.918162	3995.365	
0.75000	13.310146	401.698945	4.965370
582.800283	41.755233	3899.204	
1.00000	13.310146	441.456796	4.965370
592.413554	43.315574	3784.546	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1010

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.049931	-353.735124	-4.577155
-521.547142	-26.728808	-2086.991	
0.25000	-13.049931	-310.306016	-4.577155
-531.734124	-25.718959	-2109.832	
0.50000	-13.049931	-268.843581	-4.577155
-542.677590	-26.490409	-2133.455	
0.75000	-13.049931	-241.173037	-4.577155
-554.383481	-28.825875	-2162.104	
1.00000	-13.049931	-217.745958	-4.577155
-566.856639	-31.397828	-2190.712	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.310146	320.626812	4.965370
557.490733	45.101475	4135.713	
0.25000	13.310146	341.095911	4.965370
565.339508	43.065404	4077.537	
0.50000	13.310146	364.750898	4.965370
573.776911	41.918162	3995.365	
0.75000	13.310146	401.698945	4.965370
582.800283	41.755233	3899.204	
1.00000	13.310146	441.456796	4.965370
592.413554	43.315574	3784.546	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.049931	-353.735124	-4.577155
-521.547142	-26.728808	-2086.991	
0.25000	-13.049931	-310.306016	-4.577155
-531.734124	-25.718959	-2109.832	
0.50000	-13.049931	-268.843581	-4.577155
-542.677590	-26.490409	-2133.455	
0.75000	-13.049931	-241.173037	-4.577155
-554.383481	-28.825875	-2162.104	
1.00000	-13.049931	-217.745958	-4.577155
-566.856639	-31.397828	-2190.712	

ELEM 70 ========== LENGTH = 4.958153

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.864887	87.930077	0.541058
408.296111	8.000321	1051.019	
0.25000	3.864887	88.474873	0.541058
409.586120	8.752650	969.150704	
0.50000	3.864887	89.081729	0.541058
410.859034	9.723124	893.724541	
0.75000	3.864887	89.732032	0.541058
412.102028	10.903751	826.357782	
1.00000	3.864887	90.408048	0.541058
413.831764	12.502623	769.193348	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.815551	-25.426768	-2.323780
-73.675887	-5.469720	-509.817914	
0.25000	-3.815551	-24.754247	-2.323780
-71.958026	-3.962250	-540.274410	
0.50000	-3.815551	-24.114515	-2.323780
-70.700724	-3.074350	-570.730907	
0.75000	-3.815551	-23.527119	-2.323780
-69.472080	-3.051814	-601.187403	
1.00000	-3.815551	-23.008740	-2.323780
-68.263657	-3.047595	-631.643900	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.157872	201.024976	3.841166
689.228744	20.001008	2181.279	
0.25000	6.157872	206.472432	3.841166
700.844626	18.733246	2026.473	
0.50000	6.157872	212.540503	3.841166
712.304178	17.775453	1890.884	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1011

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	6.157872	219.042724	3.841166
723.684648	17.275591	1784.788	
1.00000	6.157872	225.799737	3.841166
739.064880	17.253877	1700.281	

COMB DB-G1-2 ---------- MIN

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.567884  -97.826619   -2.291029
-198.481027  -9.653340 -911.479639
 0.25000   -7.567884  -91.104645   -2.291029
-183.020776 -12.427481 -965.211741
 0.50000   -7.567884  -84.708283   -2.291029
-171.706257 -15.902221  -1018.944
 0.75000   -7.567884  -78.835010   -2.291029
-160.650874 -19.404303  -1072.676
 1.00000   -7.567884  -73.651890   -2.291029
-149.778875 -23.010630  -1126.408

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.055615  331.627926    5.370959
559.295258  36.866980  3244.165
 0.25000   10.055615  363.274695    5.370959
556.650358  34.224574  3124.035
 0.50000   10.055615  398.533340    5.370959
554.665094  32.449459  2981.128
 0.75000   10.055615  436.298822    5.370959
552.650587  31.826934  2817.207
 1.00000   10.055615  475.421567    5.370959
550.584027  32.409926  2626.082

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.023585 -295.323079   -3.329712
-103.107001 -11.612408  -1225.207
 0.25000  -11.023585 -256.408638   -3.329712
-103.107001 -14.111674  -1296.591
 0.50000  -11.023585 -219.266877   -3.329712
-103.107001 -17.073597  -1367.976
 0.75000  -11.023585 -185.151372   -3.329712
-103.107001 -20.124851  -1439.360
 1.00000  -11.023585 -155.050967   -3.329712
-103.545685 -23.390538  -1510.744

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.185724  351.213290    5.069226
508.663385  36.431672  3544.290
 0.25000   10.185724  377.239140    5.069226
508.092088  34.806889  3373.599
 0.50000   10.185724  406.233472    5.069226
507.533162  34.381953  3202.023
 0.75000   10.185724  437.289777    5.069226
507.132814  35.303514  3033.215
 1.00000   10.185724  469.462682    5.069226
507.132814  37.492486  2856.647

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.357749 -268.635411   -4.328460
-325.783841 -12.357862  -1349.193
 0.25000  -10.357749 -236.633758   -4.328460
-325.783841 -14.925162  -1427.776
 0.50000  -10.357749 -206.090238   -4.328460
-325.783841 -17.876646  -1506.358
 0.75000  -10.357749 -178.035813   -4.328460
-325.783841 -20.912364  -1584.941
 1.00000  -10.357749 -153.281484   -4.328460
-325.783841 -24.137377  -1663.523

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    4.076799  157.276055    3.732364
234.656775  18.957939  1423.825
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1012

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000    4.076799  174.555874    3.732364
256.359810  15.963414  1383.162
 0.50000    4.076799  193.805131    3.732364
277.789517  13.303317  1332.914
 0.75000    4.076799  214.428269    3.732364
299.079610  11.023282  1275.709
 1.00000    4.076799  235.832406    3.732364
327.808441   9.112781  1203.113

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.306071 -161.514448   -0.150915
-176.332360  -6.962162 -466.819691
 0.25000   -5.306071 -140.222495   -0.150915
-147.486297 -10.620813 -493.632912
 0.50000   -5.306071 -119.937044   -0.150915
-126.386263 -14.529850 -520.446133
 0.75000   -5.306071 -101.308190   -0.150915
-105.785799 -18.530599 -547.259355
 1.00000   -5.306071 -84.869187   -0.150915
-85.545716  -22.585029 -574.072576

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.523634  306.489138    5.503802
167.540025  37.887355  2770.266
 0.25000    8.523634  341.044956    5.503802
167.540025  34.193937  2696.539
 0.50000    8.523634  379.541507    5.503802
167.540025  31.578411  2601.685
 0.75000    8.523634  420.775978    5.503802
167.540025  30.473793  2489.468
 1.00000    8.523634  463.493161    5.503802
167.540025  30.741602  2344.419

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.226815 -320.085433   -2.751309
-150.842576 -10.184682 -901.453384
 0.25000   -9.226815 -277.595609   -2.751309
-150.842576 -13.741337 -952.995520
 0.50000   -9.226815 -237.041934   -2.751309
-150.842576 -17.455470  -1004.538
 0.75000   -9.226815 -199.793276   -2.751309
-150.842576 -21.249304  -1056.080
 1.00000   -9.226815 -166.925653   -2.751309
-150.842576  -25.104911  -1107.622

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.489142  348.293677    6.377583
463.429989  38.529998  3377.481
 0.25000    9.489142  379.742435    6.377583
463.735167  35.592821  3243.931
 0.50000    9.489142  414.775681    6.377583
464.118927  33.768757  3098.842
 0.75000    9.489142  452.301063    6.377583
464.556595  33.329711  2948.628
 1.00000    9.489142  491.176255    6.377583
464.916233  34.172085  2774.912

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.833827 -304.937725   -3.074887
-179.202170 -12.515273  -1216.439
 0.25000   -9.833827 -266.269393   -3.074887
-179.202170 -16.859519  -1286.829
 0.50000   -9.833827 -229.363435   -3.074887
-179.202170 -21.478764  -1357.219
 0.75000   -9.833827 -195.465681   -3.074887
-179.202170 -26.258463  -1427.608
 1.00000   -9.833827 -165.553136   -3.074887
-179.202170 -31.414939  -1497.998
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1013

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.953890  350.664844    5.809037
413.126717  33.459281  3553.098
 0.25000    8.953890  377.159186    5.809037
413.126717  31.165157  3385.335
 0.50000    8.953890  406.674934    5.809037
413.126717  29.986109  3216.250
 0.75000    8.953890  438.289877    5.809037
413.126717  30.171587  3048.302
 1.00000    8.953890  471.041632    5.809037
413.126717  31.391154  2867.194

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.382394 -267.828061   -2.988485
-393.089637 -13.459652  -1344.781
 0.25000   -9.382394 -235.250625   -2.988485
-393.089637 -17.718166  -1423.106
 0.50000   -9.382394 -204.157656   -2.988485
-393.089637 -22.205583  -1501.432
 0.75000   -9.382394 -175.598682   -2.988485
-393.089637 -26.823492  -1579.758
 1.00000   -9.382394 -150.398698   -2.988485
-393.089637 -31.755131  -1658.083

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    2.969821   91.373413    0.980070
67.443577   4.266325   1089.526
 0.25000    2.969821   92.020519    0.980070
65.353778   3.944941   1004.816
 0.50000    2.969821   92.744603    0.980070
63.822051   3.725993   926.993953
 0.75000    2.969821   93.519843    0.980070
62.322484   4.021852   858.876939
 1.00000    2.969821   94.320177    0.980070
60.844328   4.374128   801.363073

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.074268  -26.147419   -1.405127
-391.349229  -9.299423 -508.488640
 0.25000   -3.074268  -25.351467   -1.405127
-392.914028  -8.397236 -539.083133
 0.50000   -3.074268  -24.589224   -1.405127
-394.453599  -7.844355 -569.677627
 0.75000   -3.074268  -23.888864   -1.405127
-395.979416  -8.534268 -600.272120
 1.00000   -3.074268  -23.273747   -1.405127
-398.052953  -9.699074 -630.866899

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.973349  205.571348    2.179235
208.929746  16.999388  2214.767
 0.25000    5.973349  212.496303    2.179235
189.571973  16.506838  2064.487
 0.50000    5.973349  220.240429    2.179235
175.381689  17.019591  1931.767
 0.75000    5.973349  228.532161    2.179235
161.484289  18.791395  1824.666
 1.00000    5.973349  237.096308    2.179235
147.787243  21.302359  1735.056

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.578943 -107.803447   -3.783129
-643.020254 -10.824482 -895.863580
 0.25000   -5.578943  -99.286015   -3.783129
-657.506730 -10.163489 -948.643260
 0.50000   -5.578943  -91.133016   -3.783129
-671.761935 -11.515491  -1001.423
 0.75000   -5.578943  -83.642255   -3.783129
-685.890853 -13.210691  -1054.203
 1.00000   -5.578943  -77.059078   -3.783129
-705.091855 -14.909107  -1106.984
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1014

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.643734  332.829477    4.503908
114.756973  33.336635  3252.500
 0.25000    9.643734  364.757587    4.503908
115.660327  30.544248  3132.890
 0.50000    9.643734  400.323495    4.503908
116.634734  29.033122  2991.236
 0.75000    9.643734  438.419798    4.503908
117.659205  29.014292  2828.418
 1.00000    9.643734  477.886772    4.503908
118.810660  30.157537  2637.249

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.430844 -297.229746   -3.509886
-503.876591 -13.825928  -1206.808
 0.25000   -9.430844 -257.972745   -3.509886
-503.876591 -14.325234  -1277.185
 0.50000   -9.430844 -220.505201   -3.509886
-503.876591 -16.996560  -1347.561
 0.75000   -9.430844 -186.091554   -3.509886
-503.876591 -19.853122  -1417.937
 1.00000   -9.430844 -155.723342   -3.509886
-503.876591  -22.757954  -1488.313

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.311928  351.083626    6.327720
349.288567  33.770187  3544.524
 0.25000    9.311928  377.229797    6.327720
349.288566  30.807456  3374.521
 0.50000    9.311928  406.357378    6.327720
349.288566  28.918278  3203.167
 0.75000    9.311928  437.556628    6.327720
349.288566  28.334945  3034.126
 1.00000    9.311928  469.877813    6.327720
349.288566  28.751633  2855.897

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.535368 -268.262622   -3.176032
-467.175630 -17.042452  -1343.159
 0.25000  -10.535368 -236.113457   -3.176032
-467.175630 -20.398298  -1421.588
 0.50000  -10.535368 -205.429298   -3.176032
-467.175630 -25.687848  -1500.017
 0.75000  -10.535368 -177.245887   -3.176032
-467.175630 -31.126274  -1578.446
 1.00000  -10.535368 -152.377036   -3.176032
-467.175630 -36.611046  -1656.876

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.297211  118.728957    0.611797
472.349883  10.093402  1248.741
 0.25000    8.297211  119.182518    0.611797
473.489829  11.569427  1164.704
 0.50000    8.297211  119.678910    0.611797
474.696032  14.142884  1083.580
 0.75000    8.297211  120.200175    0.611797
475.967436  17.497757  1003.974
 1.00000    8.297211  120.728708    0.611797
477.302802  21.348468  926.786447

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.146901  -37.909956   -3.951819
-87.425963  -11.561914 -826.503209
 0.25000   -4.146901  -37.427730   -3.951819
-86.173934  -8.528241  -836.747380
 0.50000   -4.146901  -36.958107   -3.951819
-85.019821  -6.896722  -846.963678
 0.75000   -4.146901  -36.520975   -3.951819
-83.961170  -6.535088  -857.971975
 1.00000   -4.146901  -36.132503   -3.951819
-82.995985  -6.600184  -875.778340
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1015

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.062578  243.733214    5.028967
752.686542  22.220107  2414.306
 0.25000   10.062578  247.496715    5.028967
760.829892  20.897908  2262.016
 0.50000   10.062578  251.625635    5.028967
769.444653  20.913724  2115.118
 0.75000   10.062578  255.960107    5.028967
778.524579  22.149579  1983.369
 1.00000   10.062578  260.356186    5.028967
788.060517  24.301954  1860.388

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.488656 -111.867000   -3.764483
-203.421781 -22.115048  -1474.287
 0.25000  -10.488656 -107.855386   -3.764483
-194.496664 -22.818107  -1491.137
 0.50000  -10.488656 -103.950787   -3.764483
-186.264346 -25.208784  -1507.981
 0.75000  -10.488656 -100.314398   -3.764483
-178.716701 -27.970883  -1526.274
 1.00000  -10.488656 -97.082929   -3.764483
-171.835035 -33.531672  -1556.729

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.462358  367.998567    6.289821
645.447662  39.281441  3482.312
 0.25000   13.462358  393.371510    6.289821
640.348275  37.110555  3345.969
 0.50000   13.462358  421.195471    6.289821
635.630159  36.471991  3177.373
 0.75000   13.462358  450.414810    6.289821
631.282411  37.485576  2982.190
 1.00000   13.462358  480.047559    6.289821
627.292747  39.773526  2757.596

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.467594 -275.693317   -4.720266
-139.567325  -26.342612  -2000.062
 0.25000  -13.467594 -248.639632   -4.720266
-143.510106  -26.996882  -2021.760
 0.50000  -13.467594 -222.305617   -4.720266
-147.714721  -29.177035  -2043.414
 0.75000  -13.467594 -197.758631   -4.720266
-152.178227  -32.631814  -2066.874
 1.00000  -13.467594 -176.003848   -4.720266
-156.908522  -36.990397  -2107.147

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.843938  392.487682    5.876803
590.124183  40.865263  3779.640
 0.25000   13.843938  413.369399    5.876803
586.912234  38.290290  3605.773
 0.50000   13.843938  436.267173    5.876803
583.322009  41.389451  3409.541
 0.75000   13.843938  460.313235    5.876803
580.308891  44.025425  3203.222
 1.00000   13.843938  484.699556    5.876803
577.541080  47.864209  2982.348

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.300596 -261.879614   -5.795435
-358.712025 -14.534477  -2178.035
 0.25000  -12.300596 -239.615864   -5.795435
-361.356093  -27.265281  -2201.068
 0.50000  -12.300596 -217.944374   -5.795435
-364.177435  -29.403252  -2224.075
 0.75000  -12.300596 -197.743635   -5.795435
-367.180737  -32.673009  -2248.865
 1.00000  -12.300596 -179.839619   -5.795435
-370.369556  -36.767737  -2292.161
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1016

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.934050  159.002568    5.124427
226.801080  18.466839  1410.108
 0.25000    3.934050  173.199186    5.124427
247.478539  15.649582  1368.579
 0.50000    3.934050  188.770217    5.124427
269.345075  13.175248  1310.031
 0.75000    3.934050  205.119910    5.124427
292.384320  11.094535  1239.738
 1.00000    3.934050  221.697179    5.124427
316.577649   9.583712  1153.747

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.457717 -144.833411   -0.241315
-169.980881 -12.806494 -745.703913
 0.25000   -8.457717 -129.701227   -0.241315
-147.441125 -17.009761 -753.284030
 0.50000   -8.457717 -114.971980   -0.241315
-126.674820 -21.449767 -760.878411
 0.75000   -8.457717 -101.253512   -0.241315
-107.623899 -26.078560 -769.191057
 1.00000   -8.457717 -89.064281   -0.241315
-90.270045  -30.978871 -783.758212

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.154096  311.541852    6.393365
172.485267  38.900714  2771.557
 0.25000    9.154096  339.922822    6.393365
172.485267  36.501694  2692.816
 0.50000    9.154096  371.037301    6.393365
172.485267  34.874324  2579.350
 0.75000    9.154096  403.711882    6.393365
172.485267  34.289658  2441.528
 1.00000    9.154096  436.850220    6.393365
172.485267  34.688035  2271.644

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.465852 -287.244963   -2.901011
-155.824567 -18.774159  -1455.243
 0.25000  -11.465852 -256.992758   -2.901011
-155.824567 -22.500866  -1469.389
 0.50000  -11.465852 -227.545383   -2.901011
-155.824567 -26.449723  -1483.540
 0.75000  -11.465852 -200.083147   -2.901011
-155.824567 -30.659525  -1498.805
 1.00000  -11.465852 -175.749255   -2.901011
-155.824567  -35.268000  -1526.630

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.961764  374.767940    6.993563
499.220913  41.320376  3521.941
 0.25000   10.961764  400.687536    6.993563
500.137223  39.302241  3386.256
 0.50000   10.961764  429.110823    6.993563
501.049513  38.189889  3218.339
 0.75000   10.961764  458.940759    6.993563
501.950607  38.071766  3030.782
 1.00000   10.961764  489.203261    6.993563
502.834054  38.856364  2818.224

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.501299 -287.393157   -3.542886
-195.618856 -25.281883  -1971.816
 0.25000  -12.501299 -259.766506   -3.542886
-195.618287  -29.242041  -1992.659
 0.50000  -12.501299 -232.874857   -3.542886
-195.618132  -33.617095  -2071.027
 0.75000  -12.501299 -207.796051   -3.542886
-195.618132  -38.265182  -2102.266
 1.00000  -12.501299 -185.572543   -3.542886
-195.618447  -43.241444  -2141.412
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1017

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.315508  390.111784    6.436891
453.923972  37.649024  3784.610
 0.25000   10.315508  412.027362    6.436891
453.923972  36.408538  3617.783
 0.50000   10.315508  436.053737    6.436891
453.923972  36.211877  3423.158
 0.75000   10.315508  461.284010    6.436891
453.923972  36.933800  3214.106
 1.00000   10.315508  486.873993    6.436891
453.923972  38.436133  2987.446

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.669141 -262.955877   -3.753505
-432.453299  -26.384555  -2175.236
 0.25000  -11.669141 -239.595344   -3.753505
-432.453299  -30.063823  -2204.385
 0.50000  -11.669141 -216.856296   -3.753505
-432.453299  -34.177602  -2269.801
 0.75000  -11.669141 -195.650158   -3.753505
-432.453299  -38.627451  -2302.122
 1.00000  -11.669141 -176.859704   -3.753505
-432.453299  -43.384485  -2348.141

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    2.895272  121.084029    1.648127
79.272953   6.274554  1274.708
 0.25000    2.895272  121.633660    1.648127
77.711950   5.912472  1189.500
 0.50000    2.895272  122.238928    1.648127
76.270004   6.441507  1105.956
 0.75000    2.895272  122.874303    1.648127
74.947884   6.728810  1024.690
 1.00000    2.895272  123.518981    1.648127
73.740563   7.215704  946.174569

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.158301  -38.542280   -1.431163
-451.138333  -14.534477  -820.032917
 0.25000   -4.158301  -37.953800   -1.431163
-453.133750  -14.690687  -830.581903
 0.50000   -4.158301  -37.380747   -1.431163
-454.607909  -15.141235  -841.398796
 0.75000   -4.158301  -36.846210   -1.431163
-456.164734  -15.972405  -853.023468
 1.00000   -4.158301  -36.374882   -1.431163
-457.801890  -17.314746  -870.998500

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.589414  244.225857    2.695653
204.280973  21.802557  2421.601
 0.25000    7.589414  249.205658    2.695653
192.462980  23.034986  2274.323
 0.50000    7.589414  254.683874    2.695653
181.557861  24.769830  2129.251
 0.75000    7.589414  260.440211    2.695653
171.541017  27.292223  1991.213
 1.00000    7.589414  266.273919    2.695653
162.399629  30.299347  1872.258

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.397821 -118.556825   -4.267579
-699.190617  -19.189374  -1448.646
 0.25000   -6.397821 -113.228000   -4.267579
-709.733900  -19.313677  -1466.965
 0.50000   -6.397821 -108.037613   -4.267579
-720.885670  -19.955380  -1485.296
 0.75000   -6.397821 -103.201121   -4.267579
-732.627235  -21.418308  -1504.400
 1.00000   -6.397821  -98.931289   -4.267579
-744.995206  -23.080854  -1536.965
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.297128	362.944119	5.345042
145.135749	36.704959	3434.598	
0.25000	10.297128	388.619340	5.345042
149.575630	35.405489	3302.807	
0.50000	10.297128	416.759230	5.345042
154.251081	34.806950	3137.205	
0.75000	10.297128	446.309772	5.345042
159.148734	35.316222	2944.680	
1.00000	10.297128	476.279998	5.345042
164.253031	36.661350	2722.522	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.400998	-275.019287	-3.854022
-588.648346	-25.509494	-1943.675	
0.25000	-11.400998	-247.660156	-3.854022
-584.455398	-27.164395	-1964.665	
0.50000	-11.400998	-221.028966	-3.854022
-580.599144	-29.436440	-1985.617	
0.75000	-11.400998	-196.193047	-3.854022
-577.058835	-32.465135	-2007.878	
1.00000	-11.400998	-174.179058	-3.854022
-573.871627	-35.839015	-2046.921	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.982233	391.641734	7.408213
390.631510	38.111922	3774.061	
0.25000	9.982233	412.745518	7.408213
393.622722	36.159612	3601.556	
0.50000	9.982233	435.876360	7.408213
396.761432	34.934124	3405.273	
0.75000	9.982233	460.166796	7.408213
400.046103	34.724337	3198.082	
1.00000	9.982233	484.802171	7.408213
403.466599	35.346693	2975.898	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.559359	-261.304320	-3.506413
-545.478904	-31.014060	-2190.913	
0.25000	-13.559359	-238.815120	-3.506413
-542.767922	-33.193734	-2223.034	
0.50000	-13.559359	-216.924277	-3.506413
-540.275366	-39.995407	-2264.563	
0.75000	-13.559359	-196.509150	-3.506413
-538.005818	-45.485422	-2295.691	
1.00000	-13.559359	-178.414723	-3.506413
-535.955327	-51.359347	-2341.984	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.185724	351.213290	6.377583
689.228744	38.129998	3553.098	
0.25000	10.185724	379.742435	6.377583
700.844626	35.592821	3385.335	
0.50000	10.185724	414.775681	6.377583
712.304178	34.381953	3216.250	
0.75000	10.185724	452.301063	6.377583
723.684648	35.303514	3048.302	
1.00000	10.185724	491.176255	6.377583
739.064880	37.492486	2867.194	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.023585	-320.085433	-4.328460
-643.020254	-17.042452	-1349.193	
0.25000	-11.023585	-277.595609	-4.328460
-657.506730	-20.398298	-1427.776	
0.50000	-11.023585	-237.041934	-4.328460
-671.761935	-25.687848	-1506.358	
0.75000	-11.023585	-199.793276	-4.328460
-685.890853	-31.126274	-1584.941	
1.00000	-11.023585	-166.925653	-4.328460
-705.091855	-36.611046	-1663.523	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.843938	392.487682	7.408213
752.686542	41.320376	3784.610	
0.25000	13.843938	413.369399	7.408213
760.829892	40.328290	3617.783	
0.50000	13.843938	436.267173	7.408213
769.444653	41.389451	3423.158	
0.75000	13.843938	461.284810	7.408213
778.524579	44.025425	3214.106	
1.00000	13.843938	489.203261	7.408213
788.060517	47.864209	2987.446	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.559359	-287.393157	-5.795435
-699.190617	-31.014060	-2190.913	
0.25000	-13.559359	-259.766508	-5.795435
-709.733900	-35.193734	-2223.034	
0.50000	-13.559359	-232.874857	-5.795435
-720.885670	-39.995407	-2269.801	
0.75000	-13.559359	-207.796051	-5.795435
-732.627235	-45.485422	-2302.122	
1.00000	-13.559359	-185.572543	-5.795435
-744.995206	-51.359347	-2348.141	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.843938	392.487682	7.408213
752.686542	41.320376	3784.610	
0.25000	13.843938	413.369399	7.408213
760.829892	40.328290	3617.783	
0.50000	13.843938	436.267173	7.408213
769.444653	41.389451	3423.158	
0.75000	13.843938	461.284810	7.408213
778.524579	44.025425	3214.106	
1.00000	13.843938	491.176255	7.408213
788.060517	47.864209	2987.446	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.559359	-320.085433	-5.795435
-699.190617	-31.014060	-2190.913	
0.25000	-13.559359	-277.595609	-5.795435
-709.733900	-35.193734	-2223.034	
0.50000	-13.559359	-237.041934	-5.795435
-720.885670	-39.995407	-2269.801	
0.75000	-13.559359	-207.796051	-5.795435
-732.627235	-45.485422	-2302.122	
1.00000	-13.559359	-185.572543	-5.795435
-744.995206	-51.359347	-2348.141	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.843938	392.487682	7.408213
752.686542	41.320376	3784.610	
0.25000	13.843938	413.369399	7.408213
760.829892	40.328290	3617.783	
0.50000	13.843938	436.267173	7.408213
769.444653	41.389451	3423.158	
0.75000	13.843938	461.284810	7.408213
778.524579	44.025425	3214.106	
1.00000	13.843938	491.176255	7.408213
788.060517	47.864209	2987.446	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.559359	-320.085433	-5.795435
-699.190617	-31.014060	-2190.913	
0.25000	-13.559359	-277.595609	-5.795435
-709.733900	-35.193734	-2223.034	
0.50000	-13.559359	-237.041934	-5.795435
-720.885670	-39.995407	-2269.801	
0.75000	-13.559359	-207.796051	-5.795435
-732.627235	-45.485422	-2302.122	
1.00000	-13.559359	-185.572543	-5.795435
-744.995206	-51.359347	-2348.141	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 71 ========== LENGTH = 4.958076

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.077344	107.380597	0.185927
487.048537	12.476449	767.515139	
0.25000	4.077344	107.926636	0.185927
488.291262	13.374884	661.118004	
0.50000	4.077344	108.531057	0.185927
489.527274	14.519272	561.018059	
0.75000	4.077344	109.175775	0.185927
490.764611	15.893101	470.449804	
1.00000	4.077344	109.842007	0.185927
492.441195	17.654019	391.708408	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.040533	-25.016050	-2.354694
-69.082472	-2.688368	-631.433059	
0.25000	-4.040533	-24.358389	-2.354694
-67.410591	-2.715275	-658.590660	
0.50000	-4.040533	-23.734309	-2.354694
-66.181648	-2.759152	-685.748261	
0.75000	-4.040533	-23.161832	-2.354694
-64.970122	-2.814922	-712.906013	
1.00000	-4.040533	-22.656601	-2.354694
-63.768009	-2.876467	-740.068086	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.534228	240.334509	2.890637
804.192692	16.872190	1697.950	
0.25000	6.534228	245.794288	2.890637
815.374184	16.148805	1491.437	
0.50000	6.534228	251.837890	2.890637
826.496326	17.006379	1303.829	
0.75000	6.534228	258.284143	2.890637
837.630873	18.297443	1148.246	
1.00000	6.534228	264.943111	2.890637
852.714679	19.877549	1017.512	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.851037	-83.405395	-2.234104
-178.815505	-22.664123	-1126.097	
0.25000	-7.851037	-76.832103	-2.234104
-163.778214	-25.551569	-1179.241	
0.50000	-7.851037	-70.592579	-2.234104
-152.728738	-28.459945	-1232.384	
0.75000	-7.851037	-64.866345	-2.234104
-141.836975	-31.383135	-1285.528	
1.00000	-7.851037	-59.815191	-2.234104
-131.030566	-34.313734	-1338.715	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.706073	389.651305	4.955704
656.487475	31.060449	2624.226	
0.25000	10.706073	421.363718	4.955704
653.465345	28.481908	2428.719	
0.50000	10.706073	456.473740	4.955704
651.508344	27.270043	2210.292	
0.75000	10.706073	493.907674	4.955704
649.873509	27.123028	1973.388	
1.00000	10.706073	532.449388	4.955704
647.843931	27.937058	1713.257	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.609383	-260.746878	-2.440271
-91.348541	-22.477796	-1510.509	
0.25000	-11.609383	-222.701803	-2.440271
-91.348541	-25.970838	-1585.428	
0.50000	-11.609383	-186.489033	-2.440271
-91.348541	-29.500589	-1660.348	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-11.609383	-153.246695	-2.440271
-91.348541	-33.063875	-1735.267	
1.00000	-11.609383	-123.831869	-2.440271
-91.416234	-36.638121	-1810.320	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.713454	414.613840	4.700986
587.192102	35.859123	2855.915	
0.25000	10.713454	440.693778	4.700986
586.475064	35.100073	2601.222	
0.50000	10.713454	469.565970	4.700986
585.996077	35.612495	2345.459	
0.75000	10.713454	500.349724	4.700986
585.996077	36.997766	2096.889	
1.00000	10.713454	532.044943	4.700986
585.996077	39.197113	1844.011	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.947884	-234.912573	-3.313237
-351.726631	-22.345221	-1663.454	
0.25000	-10.947884	-203.625719	-3.313237
-351.726631	-25.776768	-1745.755	
0.50000	-10.947884	-173.845929	-3.313237
-351.726631	-29.244324	-1828.056	
0.75000	-10.947884	-146.509329	-3.313237
-351.726631	-32.738808	-1910.357	
1.00000	-10.947884	-122.320130	-3.313237
-351.726631	-36.239474	-1992.768	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.373385	182.310207	3.628141
261.589444	8.489042	1202.525	
0.25000	4.373385	199.627829	3.628141
282.417216	5.491566	1129.543	
0.50000	4.373385	218.798056	3.628141
303.148119	3.383987	1046.001	
0.75000	4.373385	239.242271	3.628141
323.908482	3.003559	956.582691	
1.00000	4.373385	260.332904	3.628141
351.987314	3.087740	853.107791	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.503137	-138.193141	-0.156233
-158.912882	-22.749453	-574.009917	
0.25000	-5.503137	-117.374016	-0.156233
-130.975536	-26.312864	-605.082018	
0.50000	-5.503137	-97.589952	-0.156233
-110.498410	-29.891379	-636.154118	
0.75000	-5.503137	-79.431649	-0.156233
-90.328999	-33.483070	-667.226218	
1.00000	-5.503137	-63.387789	-0.156233
-70.325630	-37.074923	-698.406725	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.018244	355.009354	5.533713
178.070607	29.090943	2344.468	
0.25000	9.018244	389.637023	5.533713
178.070607	26.404725	2208.419	
0.50000	9.018244	427.971433	5.533713
178.070607	25.240473	2049.314	
0.75000	9.018244	468.844065	5.533713
178.070607	25.000810	1874.926	
1.00000	9.018244	510.927052	5.533713
178.070607	25.573152	1670.247	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.729476	-274.712079	-1.558743
-155.021315	-24.331000	-1107.661	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-9.729476	-233.171275	-1.558743
-155.021315	-28.586068	-1167.374	
0.50000	-9.729476	-193.631549	-1.558743
-155.021315	-32.870118	-1227.087	
0.75000	-9.729476	-157.335892	-1.558743
-155.021315	-37.171356	-1286.800	
1.00000	-9.729476	-125.219092	-1.558743
-155.021315	-41.473314	-1346.660	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.028047	408.474054	6.091259
529.555655	32.448531	2773.777	
0.25000	10.028047	439.988306	6.091259
529.568848	30.151181	2560.728	
0.50000	10.028047	474.874077	6.091259
529.642297	29.154163	2336.493	
0.75000	10.028047	512.070267	6.091259
529.743755	29.017113	2108.873	
1.00000	10.028047	550.368435	6.091259
529.759945	29.690367	1861.856	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.391525	-265.228341	-1.976701
-183.672789	-30.670811	-1497.876	
0.25000	-10.391525	-227.423540	-1.976701
-183.672789	-35.645465	-1574.708	
0.50000	-10.391525	-191.440099	-1.976701
-183.672789	-40.847698	-1651.540	
0.75000	-10.391525	-158.409395	-1.976701
-183.672789	-46.055408	-1728.372	
1.00000	-10.391525	-129.181513	-1.976701
-183.672789	-51.264248	-1805.339	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.497519	414.470926	5.486497
467.414718	29.805475	2867.274	
0.25000	9.497519	441.020358	5.486497
467.414718	28.276579	2613.852	
0.50000	9.497519	470.411790	5.486497
467.414718	27.815099	2359.357	
0.75000	9.497519	501.749306	5.486497
467.414718	28.097032	2110.739	
1.00000	9.497519	534.014816	5.486497
467.414718	29.048135	1852.294	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.929645	-235.605848	-2.289912
-441.224941	-29.887380	-1658.119	
0.25000	-9.929645	-203.756036	-2.289912
-441.224941	-34.563534	-1740.760	
0.50000	-9.929645	-173.440474	-2.289912
-441.224941	-39.424220	-1823.402	
0.75000	-9.929645	-145.612177	-2.289912
-441.224941	-44.297255	-1906.043	
1.00000	-9.929645	-120.987557	-2.289912
-441.224941	-49.171117	-1988.797	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.188862	111.298704	0.707512
62.195009	4.068004	803.116683	
0.25000	3.188862	111.946956	0.707512
60.139156	4.392918	692.057135	
0.50000	3.188862	112.667846	0.707512
58.618497	4.729860	588.298463	
0.75000	3.188862	113.436139	0.707512
57.116705	5.067422	495.401579	
1.00000	3.188862	114.224289	0.707512
55.624798	5.406330	415.497468	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.289336	-25.537135	-1.913304
-465.986244	-11.025616	-631.080271	
0.25000	-3.289336	-24.759154	-1.913304
-467.504425	-9.259738	-658.267284	
0.50000	-3.289336	-24.016379	-1.913304
-469.011880	-9.245398	-685.532384	
0.75000	-3.289336	-23.334365	-1.913304
-470.519783	-10.077916	-712.797484	
1.00000	-3.289336	-22.733616	-1.913304
-472.571269	-10.910449	-740.063353	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.269616	245.135770	1.917387
190.282026	20.326224	1737.497	
0.25000	6.269616	252.072780	1.917387
171.222403	22.448846	1534.840	
0.50000	6.269616	259.782955	1.917387
157.117873	25.070257	1349.138	
0.75000	6.269616	268.000588	1.917387
143.186473	27.691848	1191.943	
1.00000	6.269616	276.434802	1.917387
129.345531	30.313591	1056.021	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.991225	-92.541051	-3.761978
-746.714202	-13.023953	-1107.318	
0.25000	-5.991225	-84.215642	-3.761978
-760.782127	-13.371997	-1159.365	
0.50000	-5.991225	-76.270277	-3.761978
-774.748893	-14.907879	-1211.445	
0.75000	-5.991225	-68.975124	-3.761978
-788.718976	-16.463484	-1263.524	
1.00000	-5.991225	-62.545733	-3.761978
-807.730984	-18.027821	-1315.614	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.238017	390.766872	4.594839
108.249479	28.441780	2639.202	
0.25000	10.238017	422.761546	4.594839
106.836707	26.566197	2443.926	
0.50000	10.238017	458.177592	4.594839
109.481525	25.560246	2226.134	
0.75000	10.238017	495.939962	4.594839
110.155166	25.377507	1990.061	
1.00000	10.238017	534.821221	4.594839
110.868464	25.953714	1730.104	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.091979	-262.199547	-2.948657
-589.746014	-20.692289	-1488.601	
0.25000	-10.091979	-223.819130	-2.948657
-589.746014	-23.199013	-1522.360	
0.50000	-10.091979	-187.287980	-2.948657
-589.746014	-26.558202	-1636.141	
0.75000	-10.091979	-153.754819	-2.948657
-589.746014	-29.920310	-1709.923	
1.00000	-10.091979	-124.082238	-2.948657
-589.746014	-33.283019	-1783.841	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.891355	414.521030	5.851520
384.247593	27.080711	2850.715	
0.25000	9.891355	440.721582	5.851520
384.247593	25.108088	2602.138	
0.50000	9.891355	469.726495	5.851520
384.247593	24.243447	2345.933	
0.75000	9.891355	500.651981	5.851520
384.247593	24.074553	2096.754	
1.00000	9.891355	532.493333	5.851520
384.247593	24.531462	1842.238	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.065575	-234.834476	-2.690220
-534.033425	-35.116545	-1657.001	
0.25000	-11.065575	-203.403348	-2.690220
-534.033425	-39.619347	-1739.087	
0.50000	-11.065575	-173.486340	-2.690220
-534.033425	-44.823545	-1821.191	
0.75000	-11.065575	-146.023964	-2.690220
-534.033425	-50.109695	-1903.295	
1.00000	-11.065575	-121.723417	-2.690220
-534.033425	-55.447133	-1985.511	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.498084	145.220861	0.294464
593.696932	20.158065	924.495932	
0.25000	8.498084	145.687263	0.294464
594.818676	21.617576	804.172367	
0.50000	8.498084	146.195118	0.294464
596.017091	27.538401	705.343579	
0.75000	8.498084	146.727622	0.294464
597.291047	31.655324	630.807543	
1.00000	8.498084	147.267591	0.294464
598.641545	35.889653	576.136051	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.375386	-36.308730	-3.967070
-132.360645	-5.643657	-875.270005	
0.25000	-4.375386	-55.851351	-3.967070
-131.111776	-5.183449	-887.699513	
0.50000	-4.375386	-35.407769	-3.967070
-129.999252	-5.233683	-920.201855	
0.75000	-4.375386	-34.995406	-3.967070
-128.965248	-5.334868	-973.364546	
1.00000	-4.375386	-34.630725	-3.967070
-128.013315	-5.454331	-1051.905	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.430926	299.313595	4.338850
934.719769	22.524691	1857.123	
0.25000	10.430926	303.192184	4.338850
942.750794	23.938540	1630.214	
0.50000	10.430926	307.415410	4.338850
951.289112	26.928737	1446.504	
0.75000	10.430926	311.842172	4.338850
960.389970	30.561463	1319.836	
1.00000	10.430926	316.334081	4.338850
970.024341	34.396290	1236.250	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.811343	-98.440744	-3.790912
-261.510804	-32.762365	-1555.977	
0.25000	-10.811343	-94.636745	-3.790912
-253.010435	-36.192140	-1584.895	
0.50000	-10.811343	-90.947631	-3.790912
-245.066832	-40.472818	-1662.990	
0.75000	-10.811343	-87.518044	-3.790912
-237.717692	-45.096362	-1761.298	
1.00000	-10.811343	-84.484874	-3.790912
-230.932436	-49.809140	-1922.457	

COMB DL-G1-3 ---------- MAX

```
 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    14.099175  450.385805    6.405754
800.023472   37.058522  2754.954
 0.25000    14.091720  476.512702    6.405754
794.858642   36.886986  2508.270
 0.50000    14.099175  504.958338    6.405754
790.025937   38.368077  2282.884
 0.75000    14.099175  534.840365    6.405754
785.519320   40.851589  2092.991
 1.00000    14.099175  565.093079    6.405754
781.327674   44.091720  1924.277
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1025

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -14.071325  -245.690689   -4.103261
-191.914345  -35.964403   -2106.568
 0.25000   -14.071325  -220.039990   -4.103261
-195.858470  -40.168911   -2152.350
 0.50000   -14.071325  -195.150214   -4.103261
-200.126774  -45.211748   -2253.304
 0.75000   -14.071325  -172.018304   -4.103261
-204.725971  -50.662529   -2414.061
 1.00000   -14.071325  -151.549138   -4.103261
-209.663946  -56.460947   -2654.652

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    14.400769  482.042209    5.991701
734.122904   44.503953   2981.264
 0.25000    14.400769  503.544457    5.991701
730.513281   45.919766   2687.577
 0.50000    14.400769  526.953985    5.991701
727.130875   48.712051   2427.697
 0.75000    14.400769  551.545510    5.991701
723.973724   52.343266   2224.928
 1.00000    14.400769  576.442100    5.991701
721.036405   56.651921   2061.616

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -12.880717  -231.309724   -4.830232
-455.800327  -34.990228   -2291.972
 0.25000   -12.880717  -210.200546   -4.830232
-458.451715  -39.239468   -2340.378
 0.50000   -12.880717  -189.717560   -4.830232
-461.330829  -43.881033   -2447.371
 0.75000   -12.880717  -170.681283   -4.830232
-464.442269  -49.035494   -2619.140
 1.00000   -12.880717  -153.835318   -4.830232
-467.792138  -54.482657   -2876.572

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.227446   194.155364    5.200344
269.582915   8.975521   1153.045
 0.25000    4.227446   208.782781    5.200344
289.912285   6.392247   1065.483
 0.50000    4.227446   224.712853    5.200344
311.622351   4.737860   982.375038
 0.75000    4.227446   241.411384    5.200344
334.683249   4.033073   913.154116
 1.00000    4.227446   258.350544    5.200344
359.042616   4.133367   848.468974

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.686590  -126.796713   -0.239517
-173.390348  -31.401897  -783.598471
 0.25000   -8.686590  -112.452752   -0.239517
-151.973505  -36.004934  -804.858663
 0.50000   -8.686590   -98.533575   -0.239517
-131.983495  -41.099166  -848.796064
 0.75000   -8.686590   -85.596353   -0.239517
-113.472755  -46.755656  -917.182516
 1.00000   -8.686590   -74.152039   -0.239517
-96.408630   -52.433784   -1019.973

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.681691   380.326822    7.008351
203.040621   32.990207   2271.724
 0.25000    9.681691   409.551374    7.008351
203.040621   30.699947   2102.564
 0.50000    9.681691   441.362109    7.008351
203.040621   29.786994   1949.111
 0.75000    9.681691   474.778498    7.008351
203.040621   29.763083   1802.083
 1.00000    9.681691   508.609463    7.008351
203.040621   30.494721   1672.899
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1026

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -11.975684  -251.633643   -1.770833
-179.685218  -45.173431   -1526.707
 0.25000   -11.975684  -222.949011   -1.770833
-179.685218  -40.436733   -1567.467
 0.50000   -11.975684  -195.117624   -1.770833
-179.685218  -46.269093   -1650.990
 0.75000   -11.975684  -169.251297   -1.770833
-179.685218  -52.443338   -1763.072
 1.00000   -11.975684  -146.369204   -1.770833
-179.685218  -58.963797   -1982.074

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.512470   460.087284    7.142902
620.267085   37.151686   2816.653
 0.25000   11.512470   486.777354    7.142902
621.001581   35.281838   2567.903
 0.50000   11.512470   515.827429    7.142902
621.729332   34.546472   2339.683
 0.75000   11.512470   546.344234    7.142902
622.442271   34.880574   2154.838
 1.00000   11.512470   577.239372    7.142902
623.134412   36.016838   1995.169

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -12.997094  -253.192192   -2.455802
-254.487178  -43.619938   -2144.042
 0.25000   -12.997094  -226.997050   -2.455802
-254.487179  -48.665968   -2202.004
 0.50000   -12.997094  -201.581092   -2.455802
-254.487179  -54.203998   -2334.864
 0.75000   -12.997094  -177.959772   -2.455802
-254.487179  -60.301783   -2503.645
 1.00000   -12.997094  -157.061808   -2.455802
-254.487179  -66.824027   -2745.635

 COMB DL-G2-4 ------------------ MAX
```

```
 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    10.847957  480.208873    6.448519
575.894682   35.643624   2987.556
 0.25000    10.847957  502.775860    6.448519
575.894682   34.866380   2700.407
 0.50000    10.847957  527.339877    6.448519
575.894682   35.258949   2441.127
 0.75000    10.847957  553.143770    6.448519
575.894682   36.586093   2234.293
 1.00000    10.847957  579.267794    6.448519
575.894682   38.586269   2063.885

 COMB DL-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -12.154045  -232.584361   -3.010338
-547.941000  -42.409240   -2348.179
 0.25000   -12.154045  -210.434297   -3.010338
-547.941000  -47.010126   -2405.228
 0.50000   -12.154045  -188.943103   -3.010338
-547.941000  -52.243024   -2536.779
 0.75000   -12.154045  -168.969314   -3.010338
-547.941000  -57.979320   -2712.670
 1.00000   -12.154045  -151.229928   -3.010338
-547.941000  -64.067008   -2967.219

 COMB DL-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.100576   148.175014    0.996970
108.935407    5.828217   948.497593
 0.25000    3.100576   148.740999    0.996970
107.432872    6.320272   825.768721
 0.50000    3.100576   149.360706    0.996970
106.031922    6.863880   722.071988
 0.75000    3.100576   150.010394    0.996970
104.731786    7.515675   642.646185
 1.00000    3.100576   150.668276    0.996970
103.532513    8.376237   584.676349
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1027

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.366429  -36.424457   -1.846008
-558.012489  -17.656905  -871.525298
 0.25000   -4.366429  -35.866238   -1.846008
-559.386829  -16.794076  -864.211133
 0.50000   -4.366429  -35.324957   -1.846008
-560.856305  -16.491678  -914.822079
 0.75000   -4.366429  -34.821081   -1.846008
-562.422342  -16.907543  -966.681636
 1.00000   -4.366429  -34.377941   -1.846008
-564.084430  -17.531766   -1043.827

 COMB DL-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.908710   299.505465    2.326036
240.821340   28.227021   1875.570
 0.25000    7.908710   304.633434    2.326036
229.452400   30.446541   1652.809
 0.50000    7.908710   310.244011    2.326036
218.841756   32.899657   1466.413
 0.75000    7.908710   316.126798    2.326036
208.978239   35.524606   1334.881
 1.00000    7.908710   322.083087    2.326036
199.889802   38.451967   1245.712

 COMB DL-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.777413  -104.048861   -3.814610
-851.161933  -22.314976   -1537.769
 0.25000   -6.777413   -98.995527   -3.814610
-861.540385  -22.317549   -1566.571
 0.50000   -6.777413   -94.095434   -3.814610
-872.646645  -23.391476   -1629.882
 0.75000   -6.777413   -89.534085   -3.814610
-884.481514  -24.637280   -1714.019
 1.00000   -6.777413   -85.519108   -3.814610
-897.045275  -26.187155   -1894.865

 COMB DL-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    10.896493  443.845723    5.632781
187.344098   33.955959   2725.266
 0.25000    10.896493  470.284351    5.632781
191.662218   32.970142   2484.048
 0.50000    10.896493  499.054812    5.632781
196.220882   32.563978   2299.262
 0.75000    10.896493  529.277209    5.632781
201.025331   33.228057   2068.407
 1.00000    10.896493  559.874919    5.632781
206.048440   34.751385   1898.504

 COMB DL-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -12.026896  -244.733901   -3.258931
-717.151742  -35.086657   -2047.599
 0.25000   -12.026896  -218.792344   -3.258931
-713.411094  -37.602670   -2092.627
 0.50000   -12.026896  -193.622398   -3.258931
-709.944053  -41.203228   -2187.262
 0.75000   -12.026896  -170.241165   -3.258931
-706.751947  -45.245732   -2342.035
 1.00000   -12.026896  -149.527936   -3.258931
-703.838693  -49.860790   -2574.847

 COMB DL-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    10.552768  481.046622    7.147229
492.436003   32.845340   2977.044
 0.25000    10.552768  502.777852    7.147229
495.335478   31.475155   2684.382
 0.50000    10.552768  526.426847    7.147229
498.387882   31.075439   2423.972
 0.75000    10.552768  551.269445    7.147229
501.589375   31.454509   2218.831
 1.00000    10.552768  576.420801    7.147229
504.931300   32.506241   2053.085
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1028

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -14.097639  -230.887465   -2.996193
-674.748170  -51.122803   -2342.244
 0.25000   -14.097639  -209.563525   -2.996193
-672.379030  -55.743709   -2393.478
 0.50000   -14.097639  -188.873853   -2.996193
-670.185153  -61.437198   -2502.313
 0.75000   -14.097639  -169.654646   -2.996193
-668.170053  -67.522698   -2675.726
 1.00000   -14.097639  -152.629395   -2.996193
-666.437786  -74.082110   -2928.902

 COMB      DB ------------------ MAX
```

```
 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    10.713454  414.613840    6.091259
804.192692   35.859123   2867.274
 0.25000    10.713454  441.020358    6.091259
815.374184   35.100073   2613.852
 0.50000    10.713454  474.874077    6.091259
826.496326   35.612495   2359.357
 0.75000    10.713454  512.070267    6.091259
837.630873   36.997766   2110.739
 1.00000    10.713454  550.368435    6.091259
852.714679   39.197113   1861.856

 COMB      DB ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -11.609383  -274.712079   -3.761978
-746.714202  -35.116545   -1663.454
 0.25000   -11.609383  -233.171275   -3.761978
-760.782127  -39.619347   -1745.755
 0.50000   -11.609383  -193.631549   -3.761978
-774.748893  -44.823545   -1828.056
 0.75000   -11.609383  -158.409395   -3.761978
-788.718976  -50.109695   -1910.357
 1.00000   -11.609383  -129.181513   -3.761978
-807.730984  -55.447133   -1992.768

 COMB      DL ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    14.400769  482.042209    7.147229
934.719769   44.503953   2987.556
 0.25000    14.400769  503.544457    7.147229
942.750794   45.919766   2700.407
 0.50000    14.400769  527.339877    7.147229
951.289112   48.712051   2441.127
 0.75000    14.400769  553.143770    7.147229
960.389970   52.343266   2234.293
 1.00000    14.400769  579.267794    7.147229
970.024341   56.651921   2063.885

 COMB      DL ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -14.097639  -253.192192   -4.830232
-851.161933  -51.122803   -2348.179
 0.25000   -14.097639  -226.997050   -4.830232
-861.540385  -55.743709   -2405.228
 0.50000   -14.097639  -201.581092   -4.830232
-872.646645  -61.437198   -2536.779
 0.75000   -14.097639  -177.959772   -4.830232
-884.481514  -67.522698   -2712.670
 1.00000   -14.097639  -157.061808   -4.830232
-897.045275  -74.082110   -2967.219

 COMB      CAR ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    14.400769  482.042209    7.147229
934.719769   44.503953   2987.556
 0.25000    14.400769  503.544457    7.147229
942.750794   45.919766   2700.407
 0.50000    14.400769  527.339877    7.147229
951.289112   48.712051   2441.127
 0.75000    14.400769  553.143770    7.147229
960.389970   52.343266   2234.293
 1.00000    14.400769  579.267794    7.147229
970.024341   56.651921   2063.885
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1029

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB      CAR ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -14.097639  -274.712079   -4.830232
-851.161933  -51.122803   -2348.179
 0.25000   -14.097639  -233.171275   -4.830232
-861.540385  -55.743709   -2405.228
 0.50000   -14.097639  -201.581092   -4.830232
-872.646645  -61.437198   -2536.779
 0.75000   -14.097639  -177.959772   -4.830232
-884.481514  -67.522698   -2712.670
 1.00000   -14.097639  -157.061808   -4.830232
-897.045275  -74.082110   -2967.219

 COMB    DESIGN ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    14.400769  482.042209    7.147229
934.719769   44.503953   2987.556
 0.25000    14.400769  503.544457    7.147229
942.750794   45.919766   2700.407
 0.50000    14.400769  527.339877    7.147229
951.289112   48.712051   2441.127
 0.75000    14.400769  553.143770    7.147229
960.389970   52.343266   2234.293
 1.00000    14.400769  579.267794    7.147229
970.024341   56.651921   2063.885

 COMB    DESIGN ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -14.097639  -274.712079   -4.830232
-851.161933  -51.122803   -2348.179
 0.25000   -14.097639  -233.171275   -4.830232
-861.540385  -55.743709   -2405.228
 0.50000   -14.097639  -201.581092   -4.830232
-872.646645  -61.437198   -2536.779
 0.75000   -14.097639  -177.959772   -4.830232
-884.481514  -67.522698   -2712.670
 1.00000   -14.097639  -157.061808   -4.830232
-897.045275  -74.082110   -2967.219

 ELEM      72 ================== LENGTH
=    4.958160

 COMB DB-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.314263   115.974790    3.341618
494.407007   17.847669   390.075720
 0.25000    4.314263   116.548323    3.341618
495.660118   14.216047   284.231197
 0.50000    4.314263   117.178145    3.341618
496.893449   10.965995   259.162591
 0.75000    4.314263   117.845911    3.341618
498.116809    8.674086   264.872224
 1.00000    4.314263   118.533392    3.341618
499.777432    6.623952   270.390080

 COMB DB-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.256156  -24.301739   -0.662711
-181.169355  -2.582681  -739.484842
 0.25000   -4.256156  -23.659839   -0.662711
-179.528957  -2.358039  -756.087557
 0.50000   -4.256156  -23.052685   -0.662711
-178.283939  -2.259728  -772.922599
 0.75000   -4.256156  -22.500600   -0.662711
-177.073573  -2.617247  -790.016641
 1.00000   -4.256156  -22.091123   -0.662711
-176.036223  -5.103105  -807.677010

 COMB DB-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.912338   277.618294    3.448039
821.063896   19.827015   1015.011
 0.25000    6.912338   283.355724    3.448039
832.328372   16.081404   772.636592
 0.50000    6.912338   289.656027    3.448039
843.414856   12.494299   623.490193
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1030

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000    6.912338   296.335394    3.448039
854.411162   11.801774   551.704399
 1.00000    6.912338   303.209881    3.448039
869.338647   20.332011   501.441688

 COMB DB-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.136054  -63.973674   -9.200020
-323.206579  -34.364135   1337.871
 0.25000   -8.136054  -57.558339   -9.200020
-308.462938  -24.130398   -1390.662
 0.50000   -8.136054  -51.483811   -9.200020
-297.277411  -15.040528   -1444.003
 0.75000   -8.136054  -45.960117   -9.200020
-286.401179  -10.134804   -1497.734
 1.00000   -8.136054  -41.879160   -9.200020
-277.078800   -9.863642   -1552.079

 COMB DB-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    11.369172  463.326475    4.957042
668.380938   26.967221   1711.268
 0.25000    11.369172  496.799502    4.957042
666.203877   21.754743   1429.813
 0.50000    11.369172  533.546864    4.957042
664.085466   16.873153   1189.377
 0.75000    11.369172  572.478225    4.957042
662.618835   13.886629   971.609584
 1.00000    11.369172  612.436174    4.957042
662.618835   17.322197   753.355437

 COMB DB-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -12.194938  -196.083669   -5.729846
-221.833150  -35.871028   -1809.655
 0.25000   -12.194938  -158.975216   -5.729846
-221.833150  -30.436660   -1900.715
 0.50000   -12.194938  -123.492050   -5.729846
-221.833150  -25.212420   -1993.234
 0.75000   -12.194938   -91.220332   -5.729846
-221.833150  -22.703289   -2087.317
 1.00000   -12.194938   -68.234886   -5.729846
-223.611926  -23.333710   -2182.881

 COMB DB-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    11.254311  494.074848    8.917037
642.964864   38.109929   1843.198
 0.25000    11.254311  521.600832    8.917037
642.934961   28.149253   1495.543
 0.50000    11.254311  551.817701    8.917037
642.934961   18.797111   1201.863
 0.75000    11.254311  583.831096    8.917037
642.934961   14.483012   993.152486
 1.00000    11.254311  616.688958    8.917037
642.934961   17.235463   802.269512

 COMB DB-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -11.515145  -175.781534   -5.385469
-466.453838  -34.386339   -1992.537
 0.25000   -11.515145  -145.267024   -5.385469
-466.453838  -29.775818   -2091.729
 0.50000   -11.515145  -116.090045   -5.385469
-466.453838  -25.694809   -2192.200
 0.75000   -11.515145   -89.549730   -5.385469
-466.453838  -24.745638   -2294.043
 1.00000   -11.515145   -70.642305   -5.385469
-466.453838  -28.992901   -2397.149

 COMB DB-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.648079   223.662000    0.119376
270.828505   2.908106   852.430475
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   1031

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000    4.648079   241.892573    0.119376
291.670608   3.056717   725.562486
 0.50000    4.648079   261.908951    0.119376
312.187631   3.209586   586.164395
 0.75000    4.648079   283.123863    0.119376
332.528715   5.762136   439.866970
 1.00000    4.648079   304.933981    0.119376
360.149113   15.883656   304.940670

 COMB DB-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.716769  -98.778986   -9.533711
166.561769  -37.284730   -698.239032
 0.25000   -5.716769  -78.465135   -9.533711
-139.307190  -27.394928   -745.871297
 0.50000   -5.716769  -59.154459   -9.533711
-118.688804  -18.355819   -794.143535
 0.75000   -5.716769  -41.593346   -9.533711
-98.614159  -12.285247   -843.319467
 1.00000   -5.716769  -28.806248   -9.533711
-81.396208   -9.178022   -893.167488

 COMB DB-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.506610   436.817979    5.870159
192.572665   24.343813   1670.286
 0.25000    9.506610   473.364674    5.870159
192.572665   18.037032   1427.291
 0.50000    9.506610   513.483816    5.870159
192.572665   12.181153   1156.843
 0.75000    9.506610   555.988452    5.870159
192.572665    8.938949   867.493616
 1.00000    9.506610   599.614406    5.870159
192.572665   13.723823   596.315373

 COMB DB-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -10.218160  -195.444843   -6.205549
-168.241624  -40.390528   -1346.728
 0.25000   -10.218160  -154.930264   -6.205549
-168.241624  -34.229980   -1438.935
 0.50000   -10.218160  -116.191917   -6.205549
-168.241624  -28.713958   -1532.523
 0.75000   -10.218160   -80.952922   -6.205549
-168.241624  -26.442105   -1627.942
 1.00000   -10.218160   -55.846888   -6.205549
-168.241624  -28.003036   -1724.750

 COMB DB-G2-3 ------------------ MAX
```

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.561204   493.957980    6.738756
548.813148   28.354552   1860.744
 0.25000   10.561204   527.217084    6.738756
548.813145   21.096434   1542.291
 0.50000   10.561204   563.725226    6.738756
548.813145   14.419640   1234.729
 0.75000   10.561204   602.404815    6.738756
548.813145   10.499100   987.208752
 1.00000   10.561204   642.105122    6.738756
548.813145   16.553323   752.461917

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.946273  -194.855495   -8.949215
-281.353791  -50.187434   -1804.976
 0.25000  -10.946273  -157.980186   -8.949215
-281.353791  -40.421683   -1908.174
 0.50000  -10.946273  -122.728927   -8.949215
-281.353791  -31.191115   -2012.668
 0.75000  -10.946273   -90.669371   -8.949215
-281.353791  -26.130645   -2118.933
 1.00000  -10.946273   -67.804629   -8.949215
-281.353791  -28.829457   -2226.454
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1032

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.039290   495.178201    7.066876
551.182139   28.406351   1852.357
 0.25000   10.039290   523.199202    7.066876
551.182139   20.534764   1503.246
 0.50000   10.039290   553.959010    7.066876
551.182139   14.316622   1183.995
 0.75000   10.039290   586.547802    7.066876
551.182139   11.233298   988.380849
 1.00000   10.039290   619.996322    7.066876
551.182139   17.110222   800.364361

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.474327  -177.596598   -8.438835
-528.409319  -46.892240   -1988.868
 0.25000  -10.474327  -146.533604   -8.438835
-528.409319  -38.104462   -2089.992
 0.50000  -10.474327  -116.832469   -8.438835
-528.409319  -29.511821   -2192.225
 0.75000  -10.474327   -89.814327   -8.438835
-528.409319  -24.406835   -2296.054
 1.00000  -10.474327   -70.565242   -8.438835
-528.409319  -26.400079   -2400.932

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.394451   120.239519    0.568478
160.293552    5.047460   417.209807
 0.25000    3.394451   120.927173    0.568478
158.251224    4.474111   304.292344
 0.50000    3.394451   121.684897    0.568478
156.690095    4.431828   257.152255
 0.75000    3.394451   122.487086    0.568478
155.177457    7.396775   261.877033
 1.00000    3.394451   123.307930    0.568478
153.883563   10.710679   266.280272

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.513745   -24.173752   -3.113808
-475.101017   -9.230059  -740.660751
 0.25000   -3.513745   -23.412173   -3.113808
-476.656993   -6.818466  -756.368686
 0.50000   -3.513745   -22.679343   -3.113808
-478.188849   -5.059766  -772.484910
 0.75000   -3.513745   -22.012670   -3.113808
-479.709475   -5.407156  -788.633259
 1.00000   -3.513745   -21.559135   -3.113808
-481.772446   -2.550274   -805.134279

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    6.564015   284.604647    7.577180
309.885439   29.692610   1058.570
 0.25000    6.564015   291.958799    7.577180
290.932505   20.829073   814.584582
 0.50000    6.564015   300.058194    7.577180
276.446892   12.525118   642.226892
 0.75000    6.564015   308.633727    7.577180
262.398744   10.370013   560.255406
 1.00000    6.564015   317.412297    7.577180
250.392904   13.832807   497.299339

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.377856   -69.162499   -3.333458
-763.244988  -14.666994   -1316.501
 0.25000   -6.377856   -61.018596   -3.333458
-777.677177  -13.176442   -1367.705
 0.50000   -6.377856   -53.187002   -3.333458
-791.890654  -12.666765   -1419.742
 0.75000   -6.377856   -46.062642   -3.333458
-805.998777  -13.730245   -1472.264
 1.00000   -6.377856   -41.184898   -3.333458
-825.138921  -17.559339   -1525.143
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1033

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.824914   465.167422    5.392764
220.521864   24.419726   1732.130
 0.25000   10.824914   498.932231    5.392764
220.539575   18.930239   1447.706
 0.50000   10.824914   535.994268    5.392764
220.558151   13.858794   1187.064
 0.75000   10.824914   575.261159    5.392764
220.558151   13.313481   964.833222
 1.00000   10.824914   615.564478    5.392764
220.558151   15.867573   742.263381

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.746034  -196.065681   -3.783173
-602.087974  -29.853392   -1784.595
 0.25000  -10.746034  -158.628467   -3.783173
-602.087974  -27.584944   -1873.621
 0.50000  -10.746034  -122.842635   -3.783173
-602.087974  -25.676669   -1964.298
 0.75000  -10.746034   -90.297516   -3.783173
-602.087974  -24.709483   -2056.555
 1.00000  -10.746034   -67.077600   -3.783173
-602.087974  -25.366234   -2150.056

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.446923   493.410748    5.132601
486.169694   23.047961   1843.084
 0.25000   10.446923   521.063244    5.132601
486.169694   17.786038   1495.336
 0.50000   10.446923   551.418264    5.132601
486.169694   13.347202   1189.730
 0.75000   10.446923   583.578301    5.132601
486.169694   13.281471   987.820983
 1.00000   10.446923   616.586801    5.132601
486.169694   22.082478   797.433045

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.593812  -175.788437  -10.541809
-597.579782  -52.771780   -1885.837
 0.25000  -11.593812  -145.134109  -10.541809
-597.579782  -41.894813   -2083.894
 0.50000  -11.593812  -115.823885  -10.541809
-597.579782  -31.470286   -2183.333
 0.75000  -11.593812   -89.160756  -10.541809
-597.579782  -24.317148   -2284.142
 1.00000  -11.593812   -70.163894  -10.541809
-597.579782  -24.593179   -2385.996

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.732413   152.415256    7.250794
629.622327   35.217485   574.687353
 0.25000    8.732413   152.926045    7.250794
630.768810   27.156248   512.847835
 0.50000    8.732413   153.478339    7.250794
631.979664   19.649610   483.302203
 0.75000    8.732413   154.055489    7.250794
633.254057   13.958483   484.262427
 1.00000    8.732413   154.638247    7.250794
634.591951   10.156535   499.303137

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.582709   -39.327520   -1.118489
-271.678386   -5.010518   -1052.413
 0.25000   -4.582709   -38.896383   -1.118489
-270.478162   -4.355717   -1139.041
 0.50000   -4.582709   -38.479604   -1.118489
-269.373490   -4.190417   -1245.889
 0.75000   -4.582709   -38.097647   -1.118489
-268.360505   -5.791169   -1373.027
 1.00000   -4.582709   -37.764497   -1.118489
-267.439811   -10.185956   -1517.561
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1034

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.804962   353.875969    6.181111
1.005.066   33.284673   1234.235
 0.25000   10.804962   358.127034    6.181111
 1013.258   26.941762   1087.150
 0.50000   10.804962   362.722056    6.181111
 1021.889   21.399614   990.954663
 0.75000   10.804962   367.520408    6.181111
 1030.979   19.501413   962.697442
 1.00000   10.804962   372.372361    6.181111
 1040.523   25.899670   972.506082

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.144347   -83.478511   -11.242281
-445.405390   -49.888297   -1923.269
 0.25000  -11.144347   -79.889020   -11.242281
-436.858732   -37.594389   -2131.531
 0.50000  -11.144347   -76.427715   -11.242281
-428.992434   -26.373891   -2380.255
 0.75000  -11.144347   -73.246214   -11.242281
-421.785366   -19.562264   -2668.473
 1.00000  -11.144347   -70.476073   -11.242281
-415.228763   -19.365925   -2997.711

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.751072   561.351796    7.451044
858.316651   42.448407   1922.624
 0.25000   14.751072   590.117655    7.451044
852.838722   35.219526   1762.626
 0.50000   14.751072   621.245189    7.451044
847.760720   28.852565   1627.650
 0.75000   14.751072   653.736343    7.451044
843.086772   25.110405   1531.801
 1.00000   14.751072   686.531271    7.451044
838.822803   27.385494   1458.150

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.681851  -201.407860   -7.773297
-352.717493   -56.481434   -2655.300
 0.25000  -14.681851  -177.188542   -7.773297
-357.064236   -49.185958   -2992.328
 0.50000  -14.681851  -153.814940   -7.773297
-361.738848   -42.654791   -3385.632
 0.75000  -14.681851  -132.358791   -7.773297
-366.725885   -39.295212   -3836.865
 1.00000  -14.681851  -113.623321   -7.773297
-372.012569   -40.824578   -4352.300

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.976683   603.064146   11.476469
838.179370   54.861810   2060.922
 0.25000   14.976683   626.370028   11.476469
834.316623   42.828722   1859.357
 0.50000   14.976683   652.352344   11.476469
830.731556   32.397343   1695.367
 0.75000   14.976683   679.088139   11.476469
827.429890   26.684018   1598.450
 1.00000   14.976683   706.076581   11.476469
824.415619   28.775155   1543.156

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.464031  -188.284212   -7.208050
-615.055991   -53.976949   -2876.851
 0.25000  -13.464031  -168.353222   -7.208050
-618.024588   -47.670625   -3236.981
 0.50000  -13.464031  -149.118198   -7.208050
-621.228707   -42.579094   -3659.702
 0.75000  -13.464031  -131.460913   -7.208050
-624.655875   -42.015930   -4146.108
 1.00000  -13.464031  -116.041879   -7.208050
-628.295178   -48.482556   -4702.306
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1035

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    4.497640   258.344364    0.164277
297.855692    4.141876   848.048839
 0.25000    4.497640   274.383119    0.164277
318.565271    4.625187   780.194253
 0.50000    4.497640   291.735013    0.164277
340.417237    5.413893   713.732330
 0.75000    4.497640   309.864872    0.164277
363.365736    8.865347   655.842338
 1.00000    4.497640   328.186645    0.164277
387.468499   17.602392   607.339315

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.948546   -97.223933   -10.932394
-196.478184   -53.681360   -1020.229
 0.25000   -8.948546   -83.680458   -10.932394
-175.005704   -41.550148   -1177.146
 0.50000   -8.948546   -70.623463   -10.932394
-155.249736   -30.279077   -1356.914
 0.75000   -8.948546   -58.619513   -10.932394
-137.155103   -21.680436   -1560.024
 1.00000   -8.948546   -48.176890   -10.932394
-120.661825   -16.935875   -1792.707

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.207308   508.400629    6.101824
234.418009   29.668343   1672.926
 0.25000   10.207308   540.573569    6.101824
234.418009   23.897314   1538.829
 0.50000   10.207308   575.383112    6.101824
234.418009   19.187844   1406.310
 0.75000   10.207308   611.682822    6.101824
234.418009   17.040500   1289.213
 1.00000   10.207308   648.348876    6.101824
234.418009   21.468025   1189.523

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.516716  -191.514514   -7.048511
-206.166558   -59.567725   -1982.090
 0.25000  -12.516716  -164.433430   -7.048511
-206.166558   -52.742156   -2289.282
 0.50000  -12.516716  -138.511688   -7.048511
-206.166558   -46.686059   -2641.639
 0.75000  -12.516716  -114.315975   -7.048511
-206.166558   -43.818303   -3040.203
 1.00000  -12.516716   -93.362782   -7.048511
-206.166558   -45.906513   -3497.209

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.059594   592.956616    7.586769
682.511275   54.599983   1994.162
 0.25000   12.059594   622.335762    7.586769
683.136182   47.000003   1815.982
 0.50000   12.059594   654.111600    7.586769
683.761090   22.503685   1653.118
 0.75000   12.059594   687.266129    7.586769
684.385997   20.711884   1543.767
 1.00000   12.059594   720.753043    7.586769
685.010905   27.863790   1463.139

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.520041  -200.863007  -10.191746
-382.177741   -67.322381   -2745.625
 0.25000  -13.520041  -176.132629  -10.191746
-382.177741   -57.188995   -3091.436
 0.50000  -13.520041  -152.276811  -10.191746
-382.177741   -48.388016   -3492.397
 0.75000  -13.520041  -130.363945  -10.191746
-382.177741   -43.614714   -3950.314
 1.00000  -13.520041  -111.227618  -10.191746
-382.177741   -47.463567   -4473.918
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1036

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.379525   604.207498    7.741668
707.187302   36.967412   2063.948
 0.25000   11.379525   629.051207    7.741668
707.187302   29.591711   1865.801
 0.50000   11.379525   655.930883    7.741668
707.187302   24.186713   1691.710
 0.75000   11.379525   683.960869    7.741668
707.187302   22.890556   1593.114
 1.00000   11.379525   712.274515    7.741668
707.187302   29.715837   1531.848

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.660367  -190.077488   -9.895199
-678.930537   -63.719431   -2966.907
 0.25000  -12.660367  -169.165673   -9.895199
-678.930537   -53.863222   -3319.160
 0.50000  -12.660367  -148.994652   -9.895199
-678.930537   -45.290235   -3731.798
 0.75000  -12.660367  -130.465339   -9.895199
-678.930537   -40.859254   -4206.922
 1.00000  -12.660367  -114.285436   -9.895199
-678.930537   -44.455421   -4750.060

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.294936   155.244042    0.838710
233.056621    8.276832   586.203263
 0.25000    3.294936   155.869645    0.838710
231.535614    7.905890   518.417282
 0.50000    3.294936   156.548388    0.838710
230.132918    9.223221   478.126384
 0.75000    3.294936   157.257144    0.838710
228.847819   12.711436   475.258999
 1.00000    3.294936   157.971410    0.838710
227.678530   17.174788   487.405495

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.590818   -38.251994   -5.244100
-593.545482   -17.924212   -1043.319
 0.25000   -4.590818   -37.724801   -5.244100
-594.963290   -12.230839   -1127.780
 0.50000   -4.590818   -37.215647   -5.244100
-596.462782   -8.486050   -1233.046
 0.75000   -4.590818   -36.748480   -5.244100
-598.043186   -5.962287   -1359.482
 1.00000   -4.590818   -36.344124   -5.244100
-599.704892   -4.570466   -1504.282

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.238278   356.186028    9.377250
399.286835   38.354151   1247.772
 0.25000    8.238278   361.849548    9.377250
387.753396   28.532369   1096.142
 0.50000    8.238278   367.992725    9.377250
377.123731   21.824348   987.939514
 0.75000    8.238278   374.406149    9.377250
367.381061   19.927156   950.486005
 1.00000    8.238278   380.885967    9.377250
358.497028   23.602014   950.077654

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.176312   -85.160776   -5.289027
-912.020697   -25.977805   -1894.130
 0.25000   -7.176312   -80.388166   -5.289027
-922.733677   -21.996029   -2095.750
 0.50000   -7.176312   -75.779439   -5.289027
-934.082795   -20.572669   -2337.527
 0.75000   -7.176312   -71.552975   -5.289027
-946.045557   -22.842790   -2619.007
 1.00000   -7.176312   -67.886075   -5.289027
-958.617551   -29.366252   -2942.170
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1037

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.496300   553.529300    6.287546
332.341837   34.156973   1900.209
 0.25000   11.496300   582.621818    6.287546
336.473853   28.328141   1738.641
 0.50000   11.496300   614.096183    6.287546
340.763302   24.828149   1595.126
 0.75000   11.496300   646.933605    6.287546
345.213938   25.110675   1495.280
 1.00000   11.496300   680.076785    6.287546
349.836070   28.661235   1416.334

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.686002  -198.685868   -6.201859
-768.998194   -50.155836   -2574.247
 0.25000  -12.686002  -174.187474   -6.201859
-765.496710   -44.901773   -2901.458
 0.50000  -12.686002  -150.563312   -6.201859
-762.303169   -41.541398   -3284.538
 0.75000  -12.686002  -128.867612   -6.201859
-759.400545   -40.688092   -3725.285
 1.00000  -12.686002  -109.910500   -6.201859
-756.766181   -42.420233   -4230.324

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.107380   600.345212    6.062603
644.101019   31.788284   2053.809
 0.25000   11.107380   624.259176    6.062603
646.827632   26.611277   1853.424
 0.50000   11.107380   650.132352    6.062603
649.644541   23.758799   1683.624
 0.75000   11.107380   677.117282    6.062603
652.557884   24.994172   1587.347
 1.00000   11.107380   704.371308    6.062603
655.575062   35.202836   1530.198

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.676321  -187.923312  -13.126773
-783.070514   -74.758091   -2928.476
 0.25000  -14.676321  -167.785464  -13.126773
-780.902313   -61.123541   -3278.825
 0.50000  -14.676321  -148.367123  -13.126773
-778.932409   -49.292677   -3690.121
 0.75000  -14.676321  -130.533122  -13.126773
-777.145686   -40.997606   -4163.764
 1.00000  -14.676321  -114.951524  -13.126773
-775.527166   -41.823291   -4705.718

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.369172   495.178201    8.917037
821.063896   38.109929   1860.744
 0.25000   11.369172   527.217084    8.917037
832.328372   28.149253   1542.291
 0.50000   11.369172   563.725226    8.917037
843.414856   18.797111   1234.729
 0.75000   11.369172   602.404815    8.917037
854.411162   14.483013   993.152486
 1.00000   11.369172   642.105122    8.917037
869.338647   22.082478   802.269512

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.194938  -196.083669  -10.541809
-763.244988   -52.771780   -1992.537
 0.25000  -12.194938  -158.975216  -10.541809
-777.677177   -41.894813   -2091.729
 0.50000  -12.194938  -123.492050  -10.541809
-791.890654   -31.470286   -2192.225
 0.75000  -12.194938   -91.220032  -10.541809
-805.998777   -26.442105   -2296.054
 1.00000  -12.194938   -70.642305  -10.541809
-825.138921   -28.992901   -2400.932
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1038

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.976683   604.207498   11.476469
 1005.066   54.861810   2063.948
 0.25000   14.976683   629.051207   11.476469
 1013.258   42.828722   1865.801
 0.50000   14.976683   655.930883   11.476469
 1021.889   32.397343   1695.367
 0.75000   14.976683   687.266129   11.476469
 1030.979   26.684018   1598.450
 1.00000   14.976683   720.753043   11.476469
 1040.523   35.202836   1543.156

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.681851  -201.407860  -13.126773
-912.020697   -74.758091   -2986.907
 0.25000  -14.681851  -177.188542  -13.126773
-922.733677   -61.123541   -3319.160
 0.50000  -14.681851  -153.814946  -13.126773
-934.082795   -49.292677   -3731.798
 0.75000  -14.681851  -132.358791  -13.126773
-946.045557   -43.813303   -4208.922
 1.00000  -14.681851  -116.041879  -13.126773
-958.617551   -48.482556   -4750.060

 COMB     CAR ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.976683   604.207498   11.476469
 1005.066   54.861810   2063.948
 0.25000   14.976683   629.051207   11.476469
 1013.258   42.828722   1865.801
 0.50000   14.976683   655.930883   11.476469
 1021.889   32.397343   1695.367
 0.75000   14.976683   687.266129   11.476469
```

```
 1030.979    26.684018    1598.450
 1.00000    14.976683    720.753043    11.476469
 1040.523    35.202836    1543.156

 COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.681851  -201.407860  -13.126773
-912.020697  -74.758091   -2966.907
 0.25000   -14.681851  -177.188542  -13.126773
-922.733677  -61.123541   -3319.160
 0.50000   -14.681851  -153.814946  -13.126773
-934.082795  -49.292677   -3731.798
 0.75000   -14.681851  -132.358791  -13.126773
-946.045557  -43.818303   -4206.922
 1.00000   -14.681851  -116.041879  -13.126773
-958.617551  -48.482556   -4750.060

 COMB     DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    14.976683    604.207498    11.476469
  1005.066    54.861810    2063.948
 0.25000    14.976683    629.051207    11.476469
  1013.258    42.828722    1865.801
 0.50000    14.976683    655.930883    11.476469
  1021.889    32.397343    1695.367
 0.75000    14.976683    687.266129    11.476469
  1030.979    26.684018    1598.450
 1.00000    14.976683    720.753043    11.476469
  1040.523    35.202836    1543.156

 COMB     DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.681851  -201.407860  -13.126773
-912.020697  -74.758091   -2966.907
 0.25000   -14.681851  -177.188542  -13.126773
-922.733677  -61.123541   -3319.160
 0.50000   -14.681851  -153.814946  -13.126773
-934.082795  -49.292677   -3731.798
 0.75000   -14.681851  -132.358791  -13.126773
-946.045557  -43.818303   -4206.922
 1.00000   -14.681851  -116.041879  -13.126773
-958.617551  -48.482556   -4750.060
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1039

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        73 ================== LENGTH
=     3.470681

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.607941    105.733849    16.313332
427.073179    5.597332    270.295918
 0.25000    4.607941    106.190474    16.313332
428.128304    4.582342    275.682092
 0.50000    4.607941    106.664713    16.313332
429.149014    6.466675    282.155668
 0.75000    4.607941    107.151586    16.313332
430.137540    8.437666    288.919750
 1.00000    4.607941    107.631828    16.313332
431.100265    10.463231    295.683833

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.459419   -41.236423    -2.555126
-340.045066   -4.511626  -806.601287
 0.25000   -4.459419   -40.991170    -2.555126
-339.072992  -17.490407  -806.057988
 0.50000   -4.459419   -40.745790    -2.555126
-338.123856   -30.804622  -805.963525
 0.75000   -4.459419   -40.572960    -2.555126
-337.194747   -44.237347  -806.790024
 1.00000   -4.459419   -40.572960    -2.555126
-336.409709   -57.671977  -808.118009

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.292102    316.611067    14.879477
746.668210    18.700215    501.005104
 0.25000    7.292102    321.192987    14.879477
756.142457    50.067997    499.000705
 0.50000    7.292102    325.950627    14.879477
765.308567    84.866312    508.303478
 0.75000    7.292102    330.834167    14.879477
774.185741   119.849884    520.494985
 1.00000    7.292102    335.650606    14.879477
782.834887   154.908602    532.686493

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.446374   -56.060568    -40.943631
-539.614989   -9.880671    -1550.533
 0.25000   -8.446374   -53.599188    -40.943631
-530.876637  -17.929889    -1590.890
 0.50000   -8.446374   -51.136898    -40.943631
-522.342358   -28.687577    -1632.543
 0.75000   -8.446374   -49.506097    -40.943631
-513.984974   -39.861889    -1675.068
 1.00000   -8.446374   -49.506097    -40.943631
-506.920280   -51.360110    -1718.906

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   12.071858    592.670044    13.503032
595.985000    19.640754    753.093182
 0.25000   12.071858    620.154174    13.503032
595.136608    31.016468    684.573180
 0.50000   12.071858    648.640401    13.503032
595.136608    49.588212    684.794550
 0.75000   12.071858    677.835339    13.503032
595.136608    70.345985    700.934110
 1.00000   12.071858    706.597138    13.503032
595.136608    92.786148    717.073671

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.829113   -94.876700    -28.692522
-414.031318   -22.295984    -2181.680
 0.25000   -12.829113   -80.087704    -28.692522
-414.031318   -24.055937    -2279.020
 0.50000   -12.829113   -65.312484    -28.692522
-414.644041   -27.327193    -2380.626
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1040

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   -12.829113   -61.080491    -28.692522
-416.250500   -35.998112    -2485.688
 1.00000   -12.829113   -61.080491    -28.692522
-417.633095   -45.924217    -2593.158

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.829608    628.311763    32.279915
660.300151    15.569847    802.206852
 0.25000   11.829608    650.904265    32.279915
660.300151    28.160785    747.377392
 0.50000   11.829608    674.319217    32.279915
660.300151    46.017904    751.770767
 0.75000   11.829608    698.317287    32.279915
660.300151    65.041205    769.130663
 1.00000   11.829608    721.959797    32.279915
660.300151    85.595580    786.557560

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.080135   -92.449839   -26.454645
-605.670161   -27.233442    -2396.750
 0.25000   -12.080135   -80.294266   -26.454645
-605.670161   -46.494567    -2499.797
 0.50000   -12.080135   -68.149792   -26.454645
-605.670161   -67.418775    -2606.582
 0.75000   -12.080135   -64.606264   -26.454645
-605.670161   -93.756079    -2716.602
 1.00000   -12.080135   -64.606264   -26.454645
-605.670161   -120.538822    -2828.721

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.879070    309.439853    0.259664
275.813187    15.238747    304.598768
 0.25000    4.879070    324.163334    0.259664
293.206905    51.605306    298.768634
 0.50000    4.879070    339.439477    0.259664
310.038340    88.581495    263.138733
 0.75000    4.879070    355.110028    0.259664
326.361574   125.627191    269.363205
 1.00000    4.879070    370.558312    0.259664
342.299690   162.673588    275.587678

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.984269   -40.003640   -43.458432
-190.341524   -8.708685   -892.864484
 0.25000   -5.984269   -32.089221   -43.458432
-174.172909   -2.974717   -953.967763
 0.50000   -5.984269   -24.176077   -43.458432
-158.343085   -2.740580    -1016.947
 0.75000   -5.984269   -20.148082   -43.458432
-142.800841   -2.709040    -1081.684
 1.00000   -5.984269   -20.148082   -43.458432
-129.617454   -2.897652    -1147.672

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.993064    614.514080    16.786541
222.986902    12.994664    596.278693
 0.25000    9.993064    644.507677    16.786541
222.986902    32.615165    511.883001
 0.50000    9.993064    675.592689    16.786541
222.986902    54.021802    506.124634
 0.75000    9.993064    707.452037    16.786541
222.986902    76.684946    517.763923
 1.00000    9.993064    738.839521    16.786541
222.986902    101.278696    529.403212

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.722739   -75.625990   -31.872707
-193.965132   -26.253060    -1724.900
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1041

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -10.722739   -59.488821   -31.872707
-193.965132   -31.920331    -1846.109
 0.50000   -10.722739   -43.366304   -31.872707
-193.965132   -38.873908    -1971.744
 0.75000   -10.722739   -38.638796   -31.872707
-193.965132   -52.946230    -2102.473
 1.00000   -10.722739   -38.638796   -31.872707
-193.965132   -67.355834    -2233.567

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.088982    654.791601    20.569650
530.058518    15.258047    752.404407
 0.25000   11.088982    682.078067    20.569650
530.058518    46.086169    681.044786
 0.50000   11.088982    710.356117    20.569650
530.058518    78.488439    681.111511
 0.75000   11.088982    739.339171    20.569650
530.058518   111.839916   697.028778
 1.00000   11.088982    767.893449    20.569650
530.058518   146.710357    712.942375

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.550706   -86.198619   -43.802662
-417.992927   -27.326790    -2225.806
 0.25000   -11.550706   -71.519247   -43.802662
-417.992927   -36.579237    -2345.223
 0.50000   -11.550706   -56.852974   -43.802662
-417.992927   -47.287766    -2468.631
 0.75000   -11.550706   -52.485931   -43.802662
-417.992927   -64.509416    -2596.043
 1.00000   -11.550706   -52.485931   -43.802662
-417.992927   -81.872118    -2725.696

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.596182    629.850487    23.235861
624.506711    14.778929    800.359265
 0.25000   10.596182    652.846922    23.235861
624.506711    41.814326    744.663146
 0.50000   10.596182    676.680158    23.235861
624.506711    71.827758    748.583432
 0.75000   10.596182    701.107086    23.235861
624.506711   102.767823    765.842702
 1.00000   10.596182    725.172231    23.235861
624.506711   135.135690    783.101971

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.056161   -85.800990   -40.048230
-605.901935   -25.406496    -2401.079
 0.25000   -11.056161   -73.428437   -40.048230
-605.901935   -38.111234    -2506.096
 0.50000   -11.056161   -61.067118   -40.048230
-605.901935   -51.938530    -2614.428
 0.75000   -11.056161   -57.442483   -40.048230
-605.901935   -71.371355    -2726.044
 1.00000   -11.056161   -57.442483   -40.048230
-605.901935   -90.954583    -2839.583

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.605103    108.974456    2.557966
305.749994    7.324977    266.392029
 0.25000    3.605103    109.554904    2.557966
304.542271    12.307512    270.683597
 0.50000    3.605103    110.158436    2.557966
303.370442    18.336737    276.525204
 0.75000    3.605103    110.776023    2.557966
302.230827    24.531279    282.674632
 1.00000    3.605103    111.383770    2.557966
301.276075    30.810922    288.824060
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1042

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.758330   -39.309662    -7.418760
-415.689738   -2.406220   -806.229176
 0.25000   -3.758330   -38.995230    -7.418760
-417.025305   -3.408401   -802.024915
 0.50000   -3.758330   -38.710006    -7.418760
-418.317006   -4.445216   -798.477845
 0.75000   -3.758330   -38.710006    -7.418760
-419.564066   -6.350122   -795.163874
 1.00000   -3.758330   -38.709899    -7.418760
-420.771569   -8.497189   -792.569815

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.892089    335.006839    33.644840
502.155806    9.145224    497.675660
 0.25000    6.892089    341.191219    33.644840
490.950447    15.510167    484.434089
 0.50000    6.892089    347.618790    33.644840
480.083182    22.588124    492.019543
 0.75000    6.892089    354.197418    33.644840
469.519896    30.147703    502.925214
 1.00000    6.892089    360.672196    33.644840
460.676036    38.276838    513.830885

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.726660   -53.550234    -10.146864
-699.510221   -16.683110    -1526.796
 0.25000   -6.726660   -50.203116    -10.146864
-711.919000   -42.288495    -1565.967
 0.50000   -6.726660   -46.998118    -10.146864
-723.919784   -69.160572    -1606.673
 0.75000   -6.726660   -46.998118    -10.146864
-735.503125   -96.818033    -1649.499
 1.00000   -6.726660   -46.996965    -10.146864
-746.714241   -125.136624    -1693.063

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.441223    598.680020    16.225641
396.528994    11.161774    742.505812
 0.25000   11.441223    626.375281    16.225641
396.528994    18.115220    669.445033
 0.50000   11.441223    655.076066    16.225641
396.528994    27.946126    668.422088
 0.75000   11.441223    684.492800    16.225641
396.528994    38.138979    683.490644
 1.00000   11.441223    713.474682    16.225641
396.528994    49.795010    698.559201

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.428732   -92.889754   -17.262180
-541.892397   -23.899794    -2151.476
 0.25000   -11.428732   -77.991366   -17.262180
-541.892397   -28.405266    -2245.534
 0.50000   -11.428732   -63.106113   -17.262180
-541.892397   -34.452673    -2343.751
 0.75000   -11.428732   -58.627791   -17.262180
-541.892397   -47.425341    -2446.093
 1.00000   -11.428732   -58.627791   -17.262180
-541.892397   -60.781742    -2550.375

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.987568    623.346963    15.463283
610.531559    17.941392    797.462612
 0.25000   10.987568    646.039540    15.463283
610.531559    52.017709    742.186189
 0.50000   10.987568    669.557764    15.463283
610.531559    87.993110    746.144800
 0.75000   10.987568    693.661923    15.463283
610.531559   125.473709    763.669839
 1.00000   10.987568    717.409153    15.463283
610.531559   163.581120    780.392379
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1043

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.147931   -91.517460    -47.204176
-626.302866   -23.354405    -2386.623
 0.25000   -12.147931   -79.308532    -47.204176
-626.302866   -28.446200    -2486.226
 0.50000   -12.147931   -67.110656    -47.204176
-626.302866   -34.613537    -2589.404
 0.75000   -12.147931   -63.523888    -47.204176
-626.302866   -46.746699    -2696.084
 1.00000   -12.147931   -63.523888    -47.204176
-626.302866   -59.368980    -2804.575

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.040802    135.464906    38.570910
561.215718    9.587542    499.137192
 0.25000    9.040802    135.886718    38.570910
562.141980    8.057878    516.598362
 0.50000    9.040802    136.322632    38.570910
563.089239    11.797400    537.453344
 0.75000    9.040802    136.763853    38.570910
564.056488    15.596339    560.574068
 1.00000    9.040802    137.200718    38.570910
565.045953    19.420862    586.148070

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.763066   -61.139710    -4.492604
-466.869906   -9.676246    -1518.356
 0.25000   -4.763066   -60.880702    -4.492604
-465.929301   -38.144825    -1597.097
 0.50000   -4.763066   -60.635902    -4.492604
-465.061502   -71.573412    -1680.299
 0.75000   -4.763066   -60.413815    -4.492604
-464.261035   -105.028725    -1766.616
 1.00000   -4.763066   -60.272460    -4.492604
-463.524716   -138.489198    -1855.900

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.196746    413.038075    32.870792
947.624130    24.848810    972.128486
 0.25000   11.196746    416.557987    32.870792
954.224203    61.268290    949.267479
 0.50000   11.196746    420.201334    32.870792
960.974649   106.993302    966.138917
 0.75000   11.196746    423.883908    32.870792
967.881603   153.290767    998.406211
 1.00000   11.196746    427.533116    32.870792
974.940398   199.762655    1041.193

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.524216   -89.247793   -53.973977
-716.585576   -19.522657    -2999.057
 0.25000   -11.524216   -87.090697   -53.973977
-709.888069   -37.563548    -3247.856
 0.50000   -11.524216   -85.053004   -53.973977
-703.707663   -64.334051    -3516.063
 0.75000   -11.524216   -83.206576   -53.973977
-698.011196   -91.774427    -3803.836
 1.00000   -11.524216   -82.141605   -53.973977
-692.760925   -119.468180    -4099.545

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.454469    740.227005    31.386574
801.978099    26.034465    1457.913
 0.25000   15.454469    764.642112    31.386574
797.647191    45.937770    1397.964
 0.50000   15.454469    789.882058    31.386574
793.698926    73.146131    1365.864
 0.75000   15.454469    815.417031    31.386574
790.160626    103.833770    1360.673
 1.00000   15.454469    840.554459    31.386574
787.053363    139.252105    1413.659
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1044

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.356646   -144.368042    -42.449067
-590.836995   -40.797360    -4353.409
 0.25000   -15.356646   -129.699798    -42.449067
-594.751520   -50.025364    -4797.517
 0.50000   -15.356646   -115.791842    -42.449067
-598.727364   -67.097259    -5277.873
 0.75000   -15.356646   -103.313836    -42.449067
-602.711693   -89.609903    -5796.576
 1.00000   -15.356646   -101.161485    -42.449067
-606.651006   -115.700447    -6348.937

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.613280    792.736372    48.476540
875.437173    26.982728    1543.060
 0.25000   15.613280    812.826542    48.476540
872.379172    43.803937    1478.371
 0.50000   15.613280    833.600796    48.476540
869.596459    68.038954    1461.094
 0.75000   15.613280    854.607822    48.476540
867.113128    95.799138    1471.541
 1.00000   15.613280    875.288626    48.476540
864.949150    127.885055    1529.898

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.054673   -140.003163    -38.846455
-800.075431   -47.677589    -4702.751
 0.25000   -14.054673   -127.931377    -38.846455
-802.802328   -72.945725    -5184.697
 0.50000   -14.054673   -116.490754    -38.846455
-805.568653   -105.130641    -5710.067
 0.75000   -14.054673   -106.223783    -38.846455
-808.330812   -142.508697    -6273.948
 1.00000   -14.054673   -104.399801    -38.846455
-811.046406   -183.165191    -6866.889

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.719771    377.904896    0.247454
318.864176    17.091454    607.121700
 0.25000    4.719771    391.315876    0.247454
335.506197    57.199849    555.525876
 0.50000    4.719771    405.179731    0.247454
352.525336    104.035806    527.150489
 0.75000    4.719771    419.199938    0.247454
369.939250    152.369219    512.483922
 1.00000    4.719771    433.081943    0.247454
387.806346    200.915303    530.750599

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.304863   -57.488012    -56.230781
-237.235649   -17.183452    -1793.170
 0.25000   -9.304863   -49.334179    -56.230781
-220.415830   -6.933609    -2017.350
 0.50000   -9.304863   -41.632652    -56.230781
-204.884803   -5.101572    -2261.125
 0.75000   -9.304863   -34.643553    -56.230781
-190.550873   -4.796435    -2527.395
 1.00000   -9.304863   -31.487555    -56.230781
-177.330607   -4.743776    -2811.362

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.741130    756.702678    17.773579
278.731836    20.631015    1189.506
 0.25000   10.741130    783.970036    17.773579
278.731836    42.378952    1082.135
 0.50000   10.741130    812.157992    17.773579
278.731836    66.696259    1021.960
 0.75000   10.741130    840.662841    17.773579
278.731836    97.993533    993.867838
 1.00000   10.741130    868.903282    17.773579
278.731836    132.569820    1029.554
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1045

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -13.099912   -108.974394    -42.282329
-242.305478   -45.888707    -3497.311
 0.25000   -13.099912   -92.580061    -42.282329
-242.305478   -45.984599    -3945.042
 0.50000   -13.099912   -77.038172    -42.282329
-242.305478   -48.687017    -4433.952
 0.75000   -13.099912   -63.089600    -42.282329
-242.305478   -60.463255    -4968.301
 1.00000   -13.099912   -60.307107    -42.282329
-242.305478   -75.106780    -5539.172

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   12.614140    818.813929    24.950509
684.094153    26.668332    1463.012
 0.25000   12.614140    843.706904    24.950509
684.481010    59.355034    1380.560
 0.50000   12.614140    869.437349    24.950509
684.847683    94.457619    1343.297
 0.75000   12.614140    895.457075    24.950509
```

```
685.199097  136.578046  1336.668
 1.00000  12.614140  921.234787  24.950509
685.543576  181.070962  1388.261

 COMB DL-G2-3 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -14.083456  -127.712858  -53.537604
-550.642179  -47.553569  -4474.055
 0.25000  -14.083456  -112.743383  -53.537604
-550.591606  -54.930585  -4956.583
 0.50000  -14.083456  -98.551385  -53.537604
-550.520848  -64.853622  -5483.257
 0.75000  -14.083456  -85.814005  -53.537604
-550.434831  -83.900008  -6060.332
 1.00000  -14.083456  -83.191136  -53.537604
-550.341878  -104.835511  -6682.515

 COMB DL-G2-4 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  11.929081  791.658935  28.045837
813.391341  26.429022  1531.842
 0.25000  11.929081  812.714589  28.045837
813.391341  56.395997  1472.718
 0.50000  11.929081  834.481124  28.045837
813.391341  89.378343  1454.225
 0.75000  11.929081  856.492361  28.045837
813.391341  128.299590  1462.620
 1.00000  11.929081  878.299423  28.045837
813.391341  169.954550  1520.214

 COMB DL-G2-4 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -13.206781  -128.259534  -50.060851
-786.218382  -42.934923  -4749.627
 0.25000  -13.206781  -115.599950  -50.060851
-786.218382  -53.879095  -5226.253
 0.50000  -13.206781  -103.598616  -50.060851
-786.218382  -67.289181  -5747.293
 0.75000  -13.206781  -92.827631  -50.060851
-786.218382  -88.262751  -6312.287
 1.00000  -13.206781  -90.679010  -50.060851
-786.218382  -111.670392  -6915.745

 COMB DL-G3-1 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  3.492818  135.099017  3.979520
409.769373  14.921324  487.593318
 0.25000  3.492818  135.641778  3.979520
408.575964  26.095453  501.032846
 0.50000  3.492818  136.206683  3.979520
407.475516  38.644997  518.391435
 0.75000  3.492818  136.777836  3.979520
406.466209  51.874748  538.714851
 1.00000  3.492818  137.342021  3.979520
405.544200  65.340815  561.571026
 Program  SAP2000  Nonlinear  Version  7.42
File:하행S11-S1503.OUT

Page
<  MOVING  LOAD  >
1046

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -4.847129  -57.885092  -15.970652
-534.109501  -3.883112  -1503.402
 0.25000  -4.847129  -57.563100  -15.970652
-535.269242  -4.782068  -1577.033
 0.50000  -4.847129  -57.260646  -15.970652
-536.457030  -6.701805  -1656.093
 0.75000  -4.847129  -57.051243  -15.970652
-537.666385  -9.519705  -1738.888
 1.00000  -4.847129  -57.049261  -15.970652
-538.898383  -12.621373  -1824.748

 COMB DL-G3-2 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  8.611180  427.109050  38.053063
641.320457  20.710589  950.422123
 0.25000  8.611180  432.000569  38.053063
632.270104  30.466961  916.391342
 0.50000  8.611180  437.079539  38.053063
623.932700  41.697801  924.973922
 0.75000  8.611180  442.225423  38.053063
616.282967  54.072331  951.790249
 1.00000  8.611180  447.414456  38.053063
609.296525  67.266517  990.752194

 COMB DL-G3-2 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -7.529671  -84.246502  -17.181637
-859.630292  -28.609311  -2940.905
 0.25000  -7.529671  -81.336075  -17.181637
-868.426813  -56.326491  -3185.480
 0.50000  -7.529671  -78.599720  -17.181637
-877.400877  -85.612912  -3453.960
 0.75000  -7.529671  -76.540249  -17.181637
-886.564641  -116.240657  -3744.702
 1.00000  -7.529671  -76.515898  -17.181637
-895.886044  -147.699274  -4048.719

 COMB DL-G3-3 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  12.126197  733.062265  21.452622
547.412065  25.469703  1416.569
 0.25000  12.126197  757.676704  21.452622
550.392309  36.766540  1350.537
 0.50000  12.126197  783.117405  21.452622
553.459401  51.336648  1314.509
 0.75000  12.126197  808.852734  21.452622
556.667982  74.037531  1304.289
 1.00000  12.126197  834.338505  21.452622
560.073279  98.118089  1353.123

 COMB DL-G3-3 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -13.379337  -139.750118  -30.899407
-719.174057  -41.796288  -4229.330
 0.25000  -13.379337  -124.915521  -30.899407
-716.462769  -83.537708  -4486.736
 0.50000  -13.379337  -110.945013  -30.899407
-713.918430  -49.384130  -5134.448
 0.75000  -13.379337  -98.252327  -30.899407
-711.484834  -65.390448  -5644.973
 1.00000  -13.379337  -95.356010  -30.899407
-709.114168  -82.766534  -6189.275

 COMB DL-G3-4 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  11.650853  782.563783  20.650497
811.182859  32.204375  1530.263
 0.25000  11.650853  802.806552  20.650497
813.087301  72.289084  1466.295
 0.50000  11.650853  823.723664  20.650497
815.051858  115.804015  1447.531
 0.75000  11.650853  844.883720  20.650497
817.120107  166.190551  1455.992
 1.00000  11.650853  865.863140  20.650497
819.337656  217.929630  1513.124
 Program  SAP2000  Nonlinear  Version  7.42
File:하행S11-S1503.OUT

Page
<  MOVING  LOAD  >
1047

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -15.314324  -138.777275  -62.299584
-835.428133  -41.471854  -4705.140
 0.25000  -15.314324  -126.599343  -62.299584
-833.757116  -74.297700  -5182.268
 0.50000  -15.314324  -115.048902  -62.299584
-832.180134  -51.115891  -5689.881
 0.75000  -15.314324  -104.681602  -62.299584
-830.652540  -66.507140  -6235.771
 1.00000  -15.314324  -102.353247  -62.299584
-829.136959  -83.239660  -6810.177

 COMB  DB ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  12.071858  654.791601  33.644840
746.668210  18.700215  802.206852
 0.25000  12.071858  682.078067  33.644840
756.142457  52.017709  747.377392
 0.50000  12.071858  710.356117  33.644840
765.308567  88.581495  751.703767
 0.75000  12.071858  739.339171  33.644840
774.185741  125.627191  769.130663
 1.00000  12.071858  767.893449  33.644840
782.834887  163.581120  786.557560

 COMB  DB ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -12.829113  -94.876700  -47.204176
-699.510221  -27.326790  -2401.079
 0.25000  -12.829113  -80.294266  -47.204176
-711.919000  -46.494567  -2506.096
 0.50000  -12.829113  -68.149792  -47.204176
-723.919784  -69.166572  -2614.428
 0.75000  -12.829113  -64.606264  -47.204176
-735.503125  -86.818033  -2726.044
 1.00000  -12.829113  -64.606264  -47.204176
-746.714241  -125.136624  -2839.583

 COMB  DL ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  15.613280  818.813929  48.476540
947.624130  32.204375  1543.060
 0.25000  15.613280  843.706904  48.476540
954.224203  72.289084  1478.371
 0.50000  15.613280  869.437349  48.476540
960.974649  115.804015  1461.094
 0.75000  15.613280  895.457075  48.476540
967.881603  166.190551  1471.541
 1.00000  15.613280  921.234787  48.476540
974.940398  217.929630  1529.898

 COMB  DL ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -15.356646  -144.368042  -62.299584
-859.630292  -47.677589  -4749.627
 0.25000  -15.356646  -129.699798  -62.299584
-868.426813  -72.945725  -5226.253
 0.50000  -15.356646  -116.490754  -62.299584
-877.400877  -105.130641  -5747.293
 0.75000  -15.356646  -106.223783  -62.299584
-886.564641  -142.508697  -6312.287
 1.00000  -15.356646  -104.399801  -62.299584
-895.886044  -183.165191  -6915.745

 COMB  CAR ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  15.613280  818.813929  48.476540
947.624130  32.204375  1543.060
 0.25000  15.613280  843.706904  48.476540
954.224203  72.289084  1478.371
 0.50000  15.613280  869.437349  48.476540
960.974649  115.804015  1461.094
 0.75000  15.613280  895.457075  48.476540
967.881603  166.190551  1471.541
 1.00000  15.613280  921.234787  48.476540
974.940398  217.929630  1529.898
 Program  SAP2000  Nonlinear  Version  7.42
File:하행S11-S1503.OUT

Page
<  MOVING  LOAD  >
1048

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB  CAR ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -15.356646  -144.368042  -62.299584
-859.630292  -47.677589  -4749.627
 0.25000  -15.356646  -129.699798  -62.299584
-868.426813  -72.945725  -5226.253
 0.50000  -15.356646  -116.490754  -62.299584
-877.400877  -105.130641  -5747.293
 0.75000  -15.356646  -106.223783  -62.299584
-886.564641  -142.508697  -6312.287
 1.00000  -15.356646  -104.399801  -62.299584
-895.886044  -183.165191  -6915.745

 COMB  DESIGN ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  15.613280  818.813929  48.476540
947.624130  32.204375  1543.060
 0.25000  15.613280  843.706904  48.476540
954.224203  72.289084  1478.371
 0.50000  15.613280  869.437349  48.476540
960.974649  115.804015  1461.094
 0.75000  15.613280  895.457075  48.476540
967.881603  166.190551  1471.541
 1.00000  15.613280  921.234787  48.476540
974.940398  217.929630  1529.898

 COMB  DESIGN ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -15.356646  -144.368042  -62.299584
-859.630292  -47.677589  -4749.627
 0.25000  -15.356646  -129.699798  -62.299584
-868.426813  -72.945725  -5226.253
 0.50000  -15.356646  -116.490754  -62.299584
-877.400877  -105.130641  -5747.293
 0.75000  -15.356646  -106.223783  -62.299584
-886.564641  -142.508697  -6312.287
 1.00000  -15.356646  -104.399801  -62.299584
-895.886044  -183.165191  -6915.745

 ELEM  74 ================== LENGTH
=  3.470356

 COMB DB-G1-1 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  6.604480  40.889051  2.567112
334.311750  10.297671  297.075163
 0.25000  6.604480  40.889051  2.567112
335.097079  8.300235  275.672669
 0.50000  6.604480  41.013288  2.567112
336.025754  6.355662  254.270175
 0.75000  6.604480  41.257878  2.567112
336.974567  4.483178  239.732015
 1.00000  6.604480  41.502342  2.567112
337.946319  5.817672  235.321550

 COMB DB-G1-1 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -6.456494  -108.566736  -16.284551
-434.688938  -57.775667  -800.883167
 0.25000  -6.456494  -108.088084  -16.284551
-433.727984  -44.328126  -761.993637
 0.50000  -6.456494  -107.602770  -16.284551
-432.741177  -30.880840  -762.585980
 0.75000  -6.456494  -107.130016  -16.284551
-431.722083  -17.601407  -763.787355
 1.00000  -6.456494  -106.674782  -16.284551
-430.668810  -4.519746  -765.644485

 COMB DB-G1-2 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  10.270061  51.450679  40.953537
504.125413  154.704302  533.229232
 0.25000  10.270061  51.451118  40.953537
511.190732  119.674820  494.953384
 0.50000  10.270061  52.596098  40.953537
519.545787  84.723182  456.677536
 Program  SAP2000  Nonlinear  Version  7.42
File:하행S11-S1503.OUT

Page
<  MOVING  LOAD  >
1049

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST  P  V2  V3
  T  M2  M3
 0.75000  10.270061  55.050470  40.953537
528.077889  49.932392  439.504642
 1.00000  10.270061  57.503947  40.953537
536.812980  18.937965  454.827056

 COMB DB-G1-2 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -11.302182  -337.030696  -15.118781
-787.372826  -51.603444  -1715.675
 0.25000  -11.302182  -332.230234  -15.118781
-778.739910  -39.071957  -1598.289
 0.50000  -11.302182  -327.362342  -15.118781
-769.878065  -27.983140  -1557.139
 0.75000  -11.302182  -322.619616  -15.118781
-760.727052  -17.410631  -1517.295
 1.00000  -11.302182  -318.051682  -15.118781
-751.269754  -9.591274  -1478.727

 COMB DB-G1-3 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  16.774434  64.883047  28.665681
415.197146  92.469420  717.167309
 0.25000  16.774434  64.883047  28.665681
413.816301  70.053027  665.874068
 0.50000  16.774434  66.297971  28.665681
412.212411  49.330850  614.580827
 0.75000  16.774434  81.022641  28.665681
411.762495  30.463201  631.613801
 1.00000  16.774434  95.768818  28.665681
411.762495  15.442713  708.525646

 COMB DB-G1-3 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -17.424419  -708.059865  -13.691206
-599.214185  -45.998870  -2601.866
 0.25000  -17.424419  -679.395133  -13.691206
-599.214185  -35.042937  -2388.242
 0.50000  -17.424419  -650.294460  -13.691206
-599.214185  -26.537955  -2284.404
 0.75000  -17.424419  -621.898308  -13.691206
-599.214185  -23.367107  -2184.012
 1.00000  -17.424419  -594.498780  -13.691206
-600.042109  -21.818317  -2087.677

 COMB DB-G1-4 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  15.947083  69.449684  26.523395
605.004450  85.450216  786.568377
 0.25000  15.947083  69.449684  26.523395
605.004450  64.813319  730.457140
 0.50000  15.947083  70.675607  26.523395
605.004450  45.836239  674.345903
 0.75000  15.947083  82.782670  26.523395
605.004450  27.878027  679.054068
 1.00000  15.947083  94.899891  26.523395
605.004450  15.133455  748.056561

 COMB DB-G1-4 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -16.437035  -723.641336  -32.437548
-663.010965  -120.602811  -2838.369
 0.25000  -16.437035  -700.079621  -32.437548
-663.010965  -92.964882  -2608.100
 0.50000  -16.437035  -676.158027  -32.437548
-663.010965  -66.739799  -2499.709
 0.75000  -16.437035  -652.817104  -32.437548
-663.010965  -45.921130  -2394.369
 1.00000  -16.437035  -630.294210  -32.437548
-663.010965  -26.836233  -2292.711

 COMB DB-G2-1 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  6.601032  22.544262  43.457428
129.226713  162.664562  274.491165
 Program  SAP2000  Nonlinear  Version  7.42
File:하행S11-S1503.OUT

Page
<  MOVING  LOAD  >
1050

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST  P  V2  V3
  T  M2  M3
 0.25000  6.601032  22.545641  43.457428
142.413091  125.618338  254.930816
 0.50000  6.601032  25.033229  43.457428
157.950625  88.573098  235.370466
 0.75000  6.601032  32.921098  43.457428
173.776040  51.588836  251.465742
 1.00000  6.601032  40.810290  43.457428
189.940583  15.197408  299.751084

 COMB DB-G2-1 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -7.595875  -370.963853  -0.357668
-342.777225  -2.762293  -1156.783
 0.25000  -7.595875  -355.567186  -0.357668
-326.873170  -2.454604  -1046.833
 0.50000  -7.595875  -339.947002  -0.357668
-310.582609  -2.558650  -982.079255
 0.75000  -7.595875  -324.718917  -0.357668
-293.783122  -3.010216  -919.164238
 1.00000  -7.595875  -310.040555  -0.357668
-276.421024  -8.480018  -858.071289

 COMB DB-G2-2 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  13.238799  43.273098  31.875735
193.839765  101.165821  528.214246
 0.25000  13.238799  43.273098  31.875735
193.839765  76.507214  490.668629
 0.50000  13.238799  44.924774  31.875735
193.839765  53.948412  453.123011
 0.75000  13.238799  60.996294  31.875735
193.839765  32.560943  485.143498
 1.00000  13.238799  77.082546  31.875735
193.839765  12.539823  587.317772

 COMB DB-G2-2 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -14.082927  -739.600566  -16.837314
-223.315664  -67.142362  -2253.430
 0.25000  -14.082927  -708.319018  -16.837314
-223.315664  -52.556689  -2034.774
 0.50000  -14.082927  -676.562522  -16.837314
-223.315664  -38.471274  -1905.297
 0.75000  -14.082927  -645.575787  -16.837314
-223.315664  -31.523185  -1779.409
 1.00000  -14.082927  -615.674624  -16.837314
-223.315664  -25.889635  -1657.915

 COMB DB-G2-3 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  15.045109  58.568725  43.798586
416.497400  146.679941  712.244595
 0.25000  15.045109  58.568725  43.798586
416.497400  111.740499  661.428872
 0.50000  15.045109  60.136611  43.798586
416.497400  78.473786  610.613148
 0.75000  15.045109  74.756484  43.798586
416.497400  46.089502  628.225099
 1.00000  15.045109  89.389528  43.798586
416.497400  14.960772  714.620754

 COMB DB-G2-3 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -15.601624  -769.260618  -20.815354
-532.905942  -81.634099  -2739.895
 0.25000  -15.601624  -740.802719  -20.815354
-532.905942  -63.742158  -2500.534
 0.50000  -15.601624  -711.913222  -20.815354
-532.905942  -46.479825  -2374.560
 0.75000  -15.601624  -683.724564  -20.815354
-532.905942  -35.957343  -2251.820
 1.00000  -15.601624  -656.522254  -20.815354
-532.905942  -26.844971  -2133.019
 Program  SAP2000  Nonlinear  Version  7.42
File:하행S11-S1503.OUT

Page
<  MOVING  LOAD  >
1051

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DB-G2-4 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  14.506453  64.185270  40.133375
606.708847  135.261324  782.196726
 0.25000  14.506453  64.185270  40.133375
606.708847  102.765683  726.508488
 0.50000  14.506453  65.451629  40.133375
606.708847  71.799156  670.820250
 0.75000  14.506453  77.773848  40.133375
606.708847  41.726938  677.253466
 1.00000  14.506453  90.107362  40.133375
606.708847  14.006842  744.594932

 COMB DB-G2-4 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -15.017239  -726.792656  -23.354771
-625.790474  -90.759932  -2851.124
 0.25000  -15.017239  -702.808734  -23.354771
-625.790474  -70.680054  -2618.114
 0.50000  -15.017239  -678.460664  -23.354771
-625.790474  -51.371133  -2508.319
 0.75000  -15.017239  -654.702778  -23.354771
-625.790474  -37.594938  -2401.199
 1.00000  -15.017239  -631.777213  -23.354771
-625.790474  -24.991801  -2297.324

 COMB DB-G3-1 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  5.072123  39.054699  7.552985
424.169775  31.160110  287.976477
 0.25000  5.072123  39.054699  7.552985
422.963732  24.780304  267.614158
 0.50000  5.072123  39.054699  7.552985
421.718152  18.487998  247.251840
 0.75000  5.072123  39.281167  7.552985
420.480610  12.370648  235.973459
 1.00000  5.072123  39.594625  7.552985
419.094054  7.287849  231.772425

 COMB DB-G3-1 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -5.214550  -112.124656  -2.553835
-299.503595  -8.241994  -790.610055
 0.25000  -5.214550  -111.518998  -2.553835
-300.458078  -6.116329  -751.490025
 0.50000  -5.214550  -110.903420  -2.553835
-301.597176  -4.162238  -755.756357
 0.75000  -5.214550  -110.301813  -2.553835
-302.768445  -3.057528  -760.483139
 1.00000  -5.214550  -109.723018  -2.553835
-303.975564  -1.987611  -765.741849

 COMB DB-G3-2 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  9.153907  49.002375  10.370963
751.014028  38.594684  512.997516
 0.25000  9.153907  49.002375  10.370963
739.815940  30.349535  476.699019
 0.50000  9.153907  49.002907  10.370963
728.245874  22.800924  440.400521
 0.75000  9.153907  51.578895  10.370963
716.259167  15.608009  427.835511
 1.00000  9.153907  54.915618  10.370963
703.864975  9.141923  453.590211

 COMB DB-G3-2 ---------- MIN

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  -9.244288  -361.859297  -33.674907
-458.479524  -124.835247  -1697.638
 0.25000  -9.244288  -355.406714  -33.674907
-467.320662  -96.585371  -1575.517
 0.50000  -9.244288  -348.849469  -33.674907
-477.879067  -68.845463  -1534.394
 0.75000  -9.244288  -342.442374  -33.674907
-488.741030  -42.062032  -1494.639
 1.00000  -9.244288  -336.275798  -33.674907
-499.940639  -16.605678  -1457.077
 Program  SAP2000  Nonlinear  Version  7.42
File:하행S11-S1503.OUT

Page
<  MOVING  LOAD  >
1052

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DB-G3-3 ---------- MAX

 REL DIST  P  V2  V3
  T  M2  M3
 0.00000  15.460434  62.459579  17.399327
545.502725  50.015631  697.018069
 0.25000  15.460434  62.459579  17.399327
545.502725  38.194045  647.610077
 0.50000  15.460434  64.096158  17.399327
545.502725  27.971259  598.202085
 0.75000  15.460434  78.934312  17.399327
```

```
545.502725   18.674774  618.278655
 1.00000   15.460434   93.785675   17.399327
545.502725   10.711387  699.805423

  COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -15.592672 -714.771116  -16.372700
-394.810829   -60.695058   -2565.096
 0.25000  -15.592672 -685.887061  -16.372700
-394.810829   -47.173740   -2351.181
 0.50000  -15.592672 -656.565275  -16.372700
-394.810829   -34.019422   -2250.270
 0.75000  -15.592672 -627.955213  -16.372700
-394.810829   -28.077635   -2152.666
 1.00000  -15.592672 -600.345414  -16.372700
-394.810829   -23.566912   -2059.539

  COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   14.975676   68.373192   47.321554
628.332247  163.782940  776.826489
 0.25000   14.975676   68.373192   47.321554
628.332247  125.096307  723.462505
 0.50000   14.975676   69.632693   47.321554
628.332247   87.988144  668.098521
 0.75000   14.975676   81.791985   47.321554
628.332247   51.961783  674.685961
 1.00000   14.975676   93.962389   47.321554
628.332247   17.558266  743.426297

  COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -15.910674 -718.977058  -15.626455
-610.657767   -59.173991   -2816.644
 0.25000  -15.910674 -695.309979  -15.626455
-610.657767   -46.204269   -2588.255
 0.50000  -15.910674 -671.283634  -15.626455
-610.657767   -34.053544   -2483.380
 0.75000  -15.910674 -647.839762  -15.626455
-610.657767   -27.945016   -2381.442
 1.00000  -15.910674 -625.217029  -15.626455
-610.657767   -22.939611   -2283.349

  COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   14.586543   63.281702    4.502117
461.850327   19.263796  584.579528
 0.25000   14.586543   63.405259    4.502117
462.584967   15.443971  552.798120
 0.50000   14.586543   63.626469    4.502117
463.383940   11.652368  523.486835
 0.75000   14.586543   63.870667    4.502117
464.251002    7.913131  497.710321
 1.00000   14.586543   64.128981    4.502117
465.191321    9.558449  477.322634

  COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.087835 -142.673586  -38.700916
-569.761190  -138.270550   -1850.116
 0.25000   -7.087835 -142.237067  -38.700916
-568.770880  -104.701366   -1756.449
 0.50000   -7.087835 -141.796510  -38.700916
-567.803000   -71.138638   -1665.753
 0.75000   -7.087835 -141.360911  -38.700916
-566.856521   -37.602456   -1577.709
 1.00000   -7.087835 -140.939977  -38.700916
-565.930501    -9.079286   -1493.867
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1053

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   17.458285   87.872455   53.996169
688.886464  199.514992 1039.457
 0.25000   17.458285   88.788949   53.996169
694.128733  153.036192  985.705146
 0.50000   17.458285   90.625907   53.996169
699.820691  106.730504  943.157805
 0.75000   17.458285   92.659977   53.996169
705.995332   61.760419  917.560843
 1.00000   17.458285   94.810807   53.996169
712.691388   24.681587  938.334964

  COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -16.635463 -438.143700  -33.159235
-982.840039  -119.222349   -4096.351
 0.25000  -16.635463 -434.499949  -33.159235
-975.777086   -90.936927   -3792.288
 0.50000  -16.635463 -430.821408  -33.159235
-968.875948   -63.379498   -3495.528
 0.75000  -16.635463 -427.181722  -33.159235
-962.129366   -36.523563   -3217.520
 1.00000  -16.635463 -423.665840  -33.159235
-955.528141   -18.407318   -2958.689

  COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   23.019646  109.549998   42.490881
602.658928  138.909585 1412.107
 0.25000   23.019646  110.692942   42.490881
598.720931  103.347988 1344.025
 0.50000   23.019646  123.144446   42.490881
594.738813   72.526992 1340.320
 0.75000   23.019646  136.902383   42.490881
590.765481   45.365000 1361.739
 1.00000   23.019646  151.534733   42.490881
586.854920   25.654701 1416.024

  COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -21.771754 -855.046228  -31.743646
-794.381943  -115.361894   -6346.018
 0.25000  -21.771754 -829.770606  -31.743646
-797.487152   -98.040801   -6102.567
 0.50000  -21.771754 -804.245557  -31.743646
-801.022836   -65.812604   -5251.798
 0.75000  -21.771754 -779.029395  -31.743646
-804.966206   -48.580882   -4758.313
 1.00000  -21.771754 -754.641835  -31.743646
-809.291413   -39.208670   -4300.421

  COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   23.065575  113.798329   38.907769
809.758985  127.534397 1528.670
 0.25000   23.065575  114.790167   38.907769
807.044926   95.340322 1453.856
 0.50000   23.065575  125.036361   38.907769
804.283864   67.420783 1432.063
 0.75000   23.065575  136.361555   38.907769
801.519815   43.198423 1437.152
 1.00000   23.065575  148.399649   38.907769
798.796626   26.422698 1496.380

  COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -20.177602 -890.975605  -48.810520
-870.396855 -182.689207   -6864.053
 0.25000  -20.177602 -870.187820  -48.810520
-872.558488 -141.420431   -6258.995
 0.50000  -20.177602 -849.194372  -48.810520
-875.039663 -103.797797   -5682.214
 0.75000  -20.177602 -828.449345  -48.810520
-877.819191  -71.425537   -5142.359
 1.00000  -20.177602 -808.382826  -48.810520
-880.872989  -45.951690   -4645.202
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1054

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   6.320653   34.905284   56.256899
175.368800  200.839958  530.716586
 0.25000   6.320653   37.502528   56.256899
188.575538  152.264101  506.760053
 0.50000   6.320653   44.438551   56.256899
202.900898  103.879383  519.342393
 0.75000   6.320653   52.110222   56.256899
218.417074   57.047472  543.989100
 1.00000   6.320653   60.258824   56.256899
235.232117   16.878523  594.806400

  COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -13.174843 -438.988851   -0.364362
-390.358117   -4.576266   -2814.290
 0.25000  -13.174843 -425.126520   -0.364362
-372.509086   -4.531969   -2525.766
 0.50000  -13.174843 -411.127294   -0.364362
-355.098994   -4.756619   -2254.344
 0.75000  -13.174843 -397.285983   -0.364362
-338.097211   -6.565607   -2005.064
 1.00000  -13.174843 -383.903068   -0.364362
-321.453876   -16.665579   -1775.180

  COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   14.595050   67.137820   42.336026
240.777734  132.400899  1029.516
 0.25000   14.595050   68.799639   42.336026
240.777734   97.765227  982.661673
 0.50000   14.595050   82.715371   42.336026
240.777734   66.221881  1006.746
 0.75000   14.595050   98.100383   42.336026
240.777734   42.011340  1059.469
 1.00000   14.595050  114.453711   42.336026
240.777734   20.223645  1165.157

  COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -18.201750 -879.633874  -17.973989
-280.959687   -74.742414   -5540.887
 0.25000  -18.201750 -851.428663  -17.973989
-280.959687   -59.844797   -4961.853
 0.50000  -18.201750 -822.942997  -17.973989
-280.959687   -47.696199   -4418.524
 0.75000  -18.201750 -794.803207  -17.973989
-280.959687   -44.989225   -3919.392
 1.00000  -18.201750 -767.571395  -17.973989
-280.959687   -44.746671   -3461.255

  COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   18.314439   92.210202   53.586558
547.077483  180.848426  1387.364
 0.25000   18.314439   93.804017   53.586558
547.170398  136.296357  1320.968
 0.50000   18.314439  106.511602   53.586558
547.256458   93.945843  1319.355
 0.75000   18.314439  120.560086   53.586558
547.327384   58.935262  1345.858
 1.00000   18.314439  135.492372   53.586558
547.378289   26.236174  1423.624

  COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -20.115177 -935.519561  -25.302053
-691.622214  -194.337672   -6622.229
 0.25000  -20.115177 -909.771156  -25.302053
-691.277738   -82.951435   -6049.055
 0.50000  -20.115177 -883.772103  -25.302053
-690.926408   -63.485540   -5448.805
 0.75000  -20.115177 -858.083232  -25.302053
-690.559944   -53.547258   -4904.114
 1.00000  -20.115177 -833.222736  -25.302053
-690.173460   -45.974212   -4407.868
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1055

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   17.446366  100.744801   50.113830
785.949354  169.718972  1519.584
 0.25000   17.446366  102.028045   50.113830
785.949354  127.874493  1445.648
 0.50000   17.446366  112.773672   50.113830
785.949354   88.798164  1426.460
 0.75000   17.446366  124.653867   50.113830
785.949354   55.907522  1432.676
 1.00000   17.446366  137.281788   50.113830
785.949354   25.589589  1485.068

  COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -19.479390 -894.281063  -28.316637
-817.860286  -111.074174   -6916.295
 0.25000  -19.479390 -872.501204  -28.316637
-817.860286   -87.147218   -6380.473
 0.50000  -19.479390 -850.504780  -28.316637
-817.860286   -65.902175   -5712.876
 0.75000  -19.479390 -828.775440  -28.316637
-817.860286   -52.455933   -5172.959
 1.00000  -19.479390 -807.747233  -28.316637
-817.860286   -41.134917   -4680.619

  COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   5.040823   60.575911   15.972079
542.634947   65.376477  561.782163
 0.25000   5.040823   60.577995   15.972079
541.403301   51.760378  532.521129
 0.50000   5.040823   60.762693   15.972079
540.193418   38.501412  505.801027
 0.75000   5.040823   61.064399   15.972079
539.008726   25.964448  483.616777
 1.00000   5.040823   61.385485   15.972079
537.847566   14.674516  466.831468

  COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.095142 -144.256543   -3.969798
-404.824232  -12.349304   -1827.171
 0.25000   -8.095142 -143.693310   -3.969798
-405.746355   -9.098941   -1735.802
 0.50000   -8.095142 -143.122593   -3.969798
-406.751800   -7.219424   -1646.929
 0.75000   -8.095142 -142.558672   -3.969798
-407.851425   -4.275608   -1561.789
 1.00000   -8.095142 -142.015242   -3.969798
-409.045072   -3.384886   -1481.978

  COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   12.260351   82.818089   17.223247
901.156693   67.257180  990.997611
 0.25000   12.260351   82.840921   17.223247
891.837794   53.823562  941.009042
 0.50000   12.260351   84.680242   17.223247
882.684774   41.442762  904.126435
 0.75000   12.260351   87.407953   17.223247
873.710313   30.207341  886.802702
 1.00000   12.260351   90.307858   17.223247
864.917797   20.351373  918.178481

  COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.856021 -458.341860  -38.121215
-608.169365  -147.262882   -4049.869
 0.25000  -11.856021 -453.261769  -38.121215
-615.133288  -115.520963   -3736.449
 0.50000  -11.856021 -448.120713  -38.121215
-622.773632   -84.768340   -3433.583
 0.75000  -11.856021 -443.039012  -38.121215
-631.099962   -55.485747   -3154.449
 1.00000  -11.856021 -438.138534  -38.121215
-640.147266   -27.587138   -2900.091
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1056

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.807576  104.074266   30.955032
712.475696   98.023778  1353.375
 0.25000   16.807576  105.978212   30.955032
714.845862   73.703026  1289.606
 0.50000   16.807576  118.543338   30.955032
717.278246   50.788317  1291.173
 0.75000   16.807576  132.449752   30.955032
719.821590   36.294712  1316.656
 1.00000   16.807576  147.227095   30.955032
722.532947   24.903864  1376.713

  COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -19.899353 -849.190563  -21.651417
-560.291167   -82.289291   -6192.099
 0.25000  -19.899353 -823.732424  -21.651417
-556.888922   -64.468267   -5636.283
 0.50000  -19.899353 -798.028218  -21.651417
-553.680688   -48.151403   -5113.350
 0.75000  -19.899353 -772.629921  -21.651417
-550.612316   -42.324251   -4627.897
 1.00000  -19.899353 -748.039189  -21.651417
-547.630685   -40.353173   -4180.262

  COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.591587  111.985706   62.345177
830.082253  217.789798  1512.903
 0.25000   16.591587  113.473603   62.345177
831.596930  165.844026  1439.327
 0.50000   16.591587  123.817107   62.345177
833.124161  115.274025  1419.528
 0.75000   16.591587  135.252160   62.345177
834.701429   71.817465  1426.203
 1.00000   16.591587  147.403947   62.345177
836.373773   31.609854  1484.329

  COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -22.538010 -882.366424  -20.916804
-822.844774  -151.502271   -5691.516
 0.25000  -22.538010 -861.431888  -20.916804
-820.626426   -65.445881   -6214.987
 0.50000  -22.538010 -840.299049  -20.916804
-818.557252   -49.754223   -5643.531
 0.75000  -22.538010 -819.411997  -20.916804
-816.592444   -42.914475   -5120.812
 1.00000  -22.538010 -799.193874  -20.916804
-814.687052   -39.863000   -4639.716

  COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.774434   69.449694   47.321554
751.014028  163.782940  786.568377
 0.25000   16.774434   69.449684   47.321554
739.815940  125.618338  730.457140
 0.50000   16.774434   70.676607   47.321554
728.245874   88.573098  674.345903
 0.75000   16.774434   82.782570   47.321554
716.551967   51.396783  679.140068
 1.00000   16.774434   95.768818   47.321554
703.864975   18.937965  748.056561

  COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -17.424419 -769.260618  -33.674907
-787.372826 -124.835247   -2851.124
 0.25000  -17.424419 -740.802719  -33.674907
-778.739910   -96.585371   -2618.114
 0.50000  -17.424419 -711.913222  -33.674907
-769.878065   -68.845463   -2508.319
 0.75000  -17.424419 -683.724564  -33.674907
-760.727052   -45.921130   -2401.199
 1.00000  -17.424419 -656.522254  -33.674907
-751.269754   -26.844971   -2297.324
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1057

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   23.065575  113.798329   62.345177
901.156693  217.789798  1528.670
 0.25000   23.065575  114.790167   62.345177
891.837794  165.844026  1453.856
 0.50000   23.065575  125.036361   62.345177
882.684774  115.274025  1432.063
 0.75000   23.065575  136.902383   62.345177
873.710313   71.817465  1437.152
 1.00000   23.065575  151.534733   62.345177
864.917797   31.609854  1496.380

  COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -22.538010 -935.519561  -48.810520
-982.840039 -182.689207   -6916.295
 0.25000  -22.538010 -909.771156  -48.810520
-975.777086 -141.420431   -6300.473
 0.50000  -22.538010 -883.772103  -48.810520
-968.875948 -103.797797   -5712.876
 0.75000  -22.538010 -858.083232  -48.810520
-962.129366  -71.425537   -5172.959
 1.00000  -22.538010 -833.222736  -48.810520
-955.528141  -45.974212   -4680.619

  COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   23.065575  113.798329   62.345177
901.156693  217.789798  1528.670
 0.25000   23.065575  114.790167   62.345177
891.837794  165.844026  1453.856
 0.50000   23.065575  125.036361   62.345177
882.684774  115.274025  1432.063
 0.75000   23.065575  136.902383   62.345177
873.710313   71.817465  1437.152
 1.00000   23.065575  151.534733   62.345177
864.917797   31.609854  1496.380

  COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -22.538010 -935.519561  -48.810520
-982.840039 -182.689207   -6916.295
 0.25000  -22.538010 -909.771156  -48.810520
-975.777086 -141.420431   -6300.473
 0.50000  -22.538010 -883.772103  -48.810520
-968.875948 -103.797797   -5712.876
 0.75000  -22.538010 -858.083232  -48.810520
-962.129366  -71.425537   -5172.959
 1.00000  -22.538010 -833.222736  -48.810520
-955.528141  -45.974212   -4680.619

  COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   23.065575  113.798329   62.345177
901.156693  217.789798  1528.670
 0.25000   23.065575  114.790167   62.345177
891.837794  165.844026  1453.856
 0.50000   23.065575  125.036361   62.345177
882.684774  115.274025  1432.063
 0.75000   23.065575  136.902383   62.345177
873.710313   71.817465  1437.152
 1.00000   23.065575  151.534733   62.345177
864.917797   31.609854  1496.380

  COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -22.538010 -935.519561  -48.810520
-982.840039 -182.689207   -6916.295
 0.25000  -22.538010 -909.771156  -48.810520
-975.777086 -141.420431   -6300.473
 0.50000  -22.538010 -883.772103  -48.810520
-968.875948 -103.797797   -5712.876
 0.75000  -22.538010 -858.083232  -48.810520
-962.129366  -71.425537   -5172.959
 1.00000  -22.538010 -833.222736  -48.810520
-955.528141  -45.974212   -4680.619
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1058

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  ELEM        75 ================== LENGTH
=     4.957381

  COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   6.316796   24.444107    0.645697
175.835884   6.833017  235.415444
 0.25000   6.316796   24.852272    0.645697
176.870647   8.843423  231.020398
 0.50000   6.316796   25.402478    0.645697
178.078018   11.090653  226.601988
 0.75000   6.316796   26.007838    0.645697
179.519867   14.310034  226.005327
 1.00000   6.316796   26.647934    0.645697
180.956340   18.013129  370.396624

  COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -6.249205 -119.740340   -3.346724
-505.846849   -5.198650 -766.641682
 0.25000  -6.249205 -119.054307   -3.346724
-504.190697   -2.568009 -750.705501
 0.50000  -6.249205 -118.387744   -3.346724
-502.501625   -1.477276 -735.302444
 0.75000  -6.249205 -117.758706   -3.346724
-501.742971   -1.792085 -719.979384
 1.00000  -6.249205 -117.185499   -3.346724
-500.494231   -2.514437 -705.144529

  COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   9.887139   45.811359    9.183652
276.877166   20.554142  455.190186
 0.25000   9.887139   49.879068    9.183652
286.175724   11.975157  504.378976
 0.50000   9.887139   55.383927    9.183652
297.025008   12.294871  575.783751
 0.75000   9.887139   61.440463    9.183652
308.181681   15.967076  741.119090
 1.00000   9.887139   67.837814    9.183652
322.889704   19.794251  981.294978

  COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.993216 -305.021489   -3.546072
-877.841326   -9.476278   -1480.205
 0.25000  -10.993216 -298.161552   -3.546072
-862.954079   -9.863496   -1428.436
 0.50000  -10.993216 -291.494165   -3.546072
-851.996223   -14.179119   -1377.216
 0.75000  -10.993216 -285.201651   -3.546072
-840.951608   -23.232918   -1326.433
 1.00000  -10.993216 -279.467425   -3.546072
-829.726299   -34.135447   -1276.366

  COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.072535   71.427526    5.736715
223.415173   17.064074  708.757668
 0.25000   16.072535   94.329005    5.736715
221.807921   13.987944  917.822015
 0.50000   16.072535  126.488662    5.736715
221.807921   16.695425  1133.698
 0.75000   16.072535  161.864305    5.736715
221.807921   21.659852  1387.716
 1.00000   16.072535  198.871231    5.736715
221.807921   26.948737  1665.596

  COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -16.791136 -614.462325   -5.047976
-669.755693   -22.782092   -2088.860
 0.25000  -16.791136 -574.592807   -5.047976
-669.755693   -22.257287   -1995.803
 0.50000  -16.791136 -535.728400   -5.047976
-671.380753   -24.334615   -1904.598
 Program    SAP2000    Nonlinear    Version    7.42
```

File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1059

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -16.791136 -499.023553 -5.047976
-673.488299 -29.382449 -1814.839
1.00000 -16.791136 -465.566300 -5.047976
-675.660392 -35.417672 -1726.958

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.370404 74.986820 5.412245
469.378118 16.793631 748.067853
0.25000 15.370404 93.825419 5.412245
469.378118 14.276438 931.306049
0.50000 15.370404 120.273404 5.412245
469.378118 18.639737 1146.371
0.75000 15.370404 149.361982 5.412245
469.378118 28.065832 1449.507
1.00000 15.370404 179.792979 5.412245
469.378118 38.094788 1793.398

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.868174 -618.956140 -8.995307
-648.867830 -28.528601 -2293.130
0.25000 -15.868174 -586.170980 -8.995307
-648.867830 -24.200049 -2192.858
0.50000 -15.868174 -554.212659 -8.995307
-648.867830 -24.720731 -2094.275
0.75000 -15.868174 -524.030784 -8.995307
-648.867830 -28.595089 -1996.953
1.00000 -15.868174 -496.517744 -8.995307
-648.942588 -33.742610 -1901.239

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.361652 29.621391 9.537483
81.321823 15.843228 300.038443
0.25000 6.361652 42.364963 9.537483
98.495360 5.693717 428.647505
0.50000 6.361652 59.865704 9.537483
118.516214 2.875847 572.612787
0.75000 6.361652 79.118650 9.537483
139.076296 2.730795 709.917753
1.00000 6.361652 99.376100 9.537483
166.260622 2.589753 835.408576

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.332620 -305.511751 -0.196567
-361.515789 -8.876791 -858.385917
0.25000 -7.332620 -283.748656 -0.196567
-333.968263 -12.016282 -809.050118
0.50000 -7.332620 -262.571155 -0.196567
-313.696853 -18.167719 -760.832919
0.75000 -7.332620 -242.578886 -0.196567
-293.253459 -27.246629 -713.328139
1.00000 -7.332620 -224.357834 -0.196567
-272.482947 -37.173953 -666.749782

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.747875 57.314090 6.244163
169.352301 13.353229 587.281609
0.25000 12.747875 82.328735 6.244163
169.352301 8.827394 845.976351
0.50000 12.747875 117.445164 6.244163
169.352301 11.981112 1130.659
0.75000 12.747875 156.066145 6.244163
169.352301 17.851493 1397.143
1.00000 12.747875 196.469834 6.244163
169.352301 24.172453 1637.437

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.577551 -600.726301 -5.916483
-193.418899 -27.569528 -1657.823
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1060

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -13.577551 -557.196870 -5.916483
-193.418899 -25.977796 -1561.911
0.50000 -13.577551 -514.765363 -5.916483
-193.418899 -28.263439 -1468.254
0.75000 -13.577551 -474.692693 -5.916483
-193.418899 -33.778571 -1376.100
1.00000 -13.577551 -438.162877 -5.916483
-193.418899 -40.031061 -1285.779

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.511344 71.045279 8.987625
282.235129 16.515544 714.623860
0.25000 14.511344 93.826863 8.987625
282.235129 10.290433 939.241409
0.50000 14.511344 125.774915 8.987625
282.235129 14.192541 1183.855
0.75000 14.511344 160.919388 8.987625
282.235129 20.930480 1501.502
1.00000 14.511344 197.693776 8.987625
282.235129 28.245556 1816.394

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.000693 -643.979880 -6.806065
-554.016831 -28.282631 -2133.666
0.25000 -15.000693 -604.367395 -6.806065
-554.016831 -21.597788 -2028.226
0.50000 -15.000693 -565.754369 -6.806065
-554.016831 -30.829139 -1924.920
0.75000 -15.000693 -529.288554 -6.806065
-554.016831 -40.035712 -1822.966
1.00000 -15.000693 -496.045055 -6.806065
-554.016834 -49.882117 -1722.661

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.947213 74.898859 8.486022
532.830161 16.871401 744.562775
0.25000 13.947213 94.077874 8.486022
532.830161 10.760804 924.991685
0.50000 13.947213 121.002044 8.486022
532.830161 13.644202 1122.704
0.75000 13.947213 150.613194 8.486022
532.830161 20.396080 1458.063
1.00000 13.947213 181.591166 8.486022
532.830161 28.320244 1803.286

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.436695 -622.221384 -7.127449
-555.349319 -25.956907 -2297.209
0.25000 -14.436695 -588.846868 -7.127449
-555.349319 -23.719881 -2195.046
0.50000 -14.436695 -556.314145 -7.127449
-555.349319 -28.928580 -2094.736
0.75000 -14.436695 -525.589969 -7.127449
-555.349319 -37.373022 -1995.552
1.00000 -14.436695 -497.582139 -7.127449
-555.349319 -46.289140 -1897.742

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.860208 24.037938 3.156565
487.891318 10.774485 231.664306
0.25000 4.860208 24.489737 3.156565
485.833961 7.401049 226.214220
0.50000 4.860208 25.154040 3.156565
484.319241 4.390033 224.614673
0.75000 4.860208 25.884595 3.156565
482.792890 3.747428 286.014332
1.00000 4.860208 26.644244 3.156565
481.241879 4.309446 397.337482
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1061

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.972112 -124.396412 -0.548486
-153.665314 -1.847478 -764.674840
0.25000 -4.972112 -123.577471 -0.548486
-154.956571 -2.994185 -749.818865
0.50000 -4.972112 -122.776598 -0.548486
-156.466197 -4.623150 -735.017593
0.75000 -4.972112 -122.019686 -0.548486
-158.024170 -6.353759 -720.436227
1.00000 -4.972112 -121.332403 -0.548486
-160.062542 -9.313651 -706.191970

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.827147 45.055745 3.399931
833.312315 13.863958 453.172890
0.25000 8.827147 49.914939 3.399931
814.224186 10.348636 514.464122
0.50000 8.827147 57.014054 3.399931
800.170127 12.167740 595.829237
1.00000 8.827147 64.874115 3.399931
786.008843 19.991177 783.408837
1.00000 8.827147 72.944522 3.399931
771.622731 28.899133 1024.766

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.891445 -319.017072 -7.597479
-250.091360 -16.792601 -1455.501
0.25000 -8.891445 -310.258728 -7.597479
-262.080676 -13.128753 -1404.537
0.50000 -8.891445 -301.697355 -7.597479
-276.093460 -11.984640 -1354.228
0.75000 -8.891445 -293.606740 -7.597479
-290.559293 -12.402129 -1304.647
1.00000 -8.891445 -286.256485 -7.597479
-309.474957 -14.138914 -1255.676

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.843260 70.291818 3.854518
609.220449 15.814727 699.551358
0.25000 14.843260 93.427326 3.854518
609.220449 13.211859 912.444070
0.50000 14.843260 125.859263 3.854518
609.220449 13.379698 1132.743
0.75000 14.843260 161.536698 3.854518
609.220449 18.091529 1406.017
1.00000 14.843260 198.871458 3.854518
609.220449 23.624607 1686.514

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.911455 -617.432232 -5.420013
-220.453224 -24.439491 -1673.216
0.25000 -14.911455 -577.218057 -5.420013
-220.453224 -23.945672 -1966.706
0.50000 -14.911455 -538.018752 -5.420013
-220.439346 -24.863764 -1877.089
0.75000 -14.911455 -500.999708 -5.420013
-220.428040 -26.715031 -1789.103
1.00000 -14.911455 -467.250725 -5.420013
-220.411715 -29.028315 -1702.853

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.425643 74.548495 10.604503
603.517918 21.851464 743.349796
0.25000 14.425643 93.476116 10.604503
603.517918 13.081266 926.016863
0.50000 14.425643 120.046519 10.604503
603.517918 12.784742 1132.306
0.75000 14.425643 149.267944 10.604503
603.517918 16.995753 1449.307
1.00000 14.425643 179.838365 10.604503
603.517918 22.318874 1793.002
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1062

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.356188 -618.784105 -5.191532
-489.047845 -23.640602 -2282.777
0.25000 -15.356188 -585.848634 -5.191532
-489.047845 -23.527164 -2183.469
0.50000 -15.356188 -553.743930 -5.191532
-489.047845 -30.780683 -2085.842
0.75000 -15.356188 -523.424078 -5.191532
-489.047845 -41.150244 -1989.594
1.00000 -15.356188 -495.784576 -5.191532
-489.047845 -52.050431 -1894.834

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.301222 41.404027 1.111353
269.776094 9.969521 477.449791
0.25000 14.301222 41.736672 1.111353
270.695084 13.779599 457.382804
0.50000 14.301222 42.117964 1.111353
271.704654 19.497306 450.451835
0.75000 14.301222 42.533311 1.111353
272.807376 27.010471 476.592338
1.00000 14.301222 42.963716 1.111353
274.005036 35.086285 530.778956

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.899709 -160.517136 -7.352304
-644.238797 -9.202585 -1493.031
0.25000 -6.899709 -159.934783 -7.352304
-642.903642 -4.704918 -1339.651
0.50000 -6.899709 -159.358526 -7.352304
-641.630845 -2.723055 -1202.672
0.75000 -6.899709 -158.806320 -7.352304
-640.420726 -2.838224 -1084.869
1.00000 -6.899709 -158.295445 -7.352304
-639.275054 -3.524245 -986.760176

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 17.077285 76.407598 11.253608
417.568885 25.431808 938.611070
0.25000 17.077285 79.173867 11.253608
424.111490 18.987150 919.439641
0.50000 17.077285 82.345878 11.253608
431.299907 20.823514 936.870839
0.75000 17.077285 85.800975 11.253608
439.147875 26.409127 1025.200
1.00000 17.077285 89.379770 11.253608
447.676218 32.733461 1158.616

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.268054 -383.162697 -6.398257
-1055.038 -17.583894 -2957.328
0.25000 -16.268054 -378.315907 -6.398257
-1045.517 -12.655134 -2611.755
0.50000 -16.268054 -373.521520 -6.398257
-1036.433 -24.241240 -2305.700
0.75000 -16.268054 -368.925626 -6.398257
-1027.800 -35.137023 -2037.377
1.00000 -16.268054 -364.676576 -6.398257
-1019.623 -47.425214 -1807.729

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.328286 121.257809 7.826724
373.031274 26.586153 1416.206
0.25000 22.328286 139.894541 7.826724
368.449554 24.250633 1476.757
0.50000 22.328286 161.305269 7.826724
363.464112 27.919078 1557.427
0.75000 22.328286 184.601506 7.826724
358.792818 34.290124 1680.945
1.00000 22.328286 208.765315 7.826724
354.445782 41.478751 1822.416
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1063

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -21.109644 -701.009723 -7.744230
-851.992017 -38.343744 -4299.357
0.25000 -21.109644 -668.176062 -7.744230
-856.253503 -36.580353 -3762.074
0.50000 -21.109644 -635.729859 -7.744230
-860.926301 -39.690992 -3287.495
0.75000 -21.109644 -604.649244 -7.744230
-866.002631 -45.748820 -2868.196
1.00000 -21.109644 -575.903119 -7.744230
-871.480014 -52.931709 -2502.653

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.443302 124.572169 7.267071
633.400893 27.679813 1496.428
0.25000 22.443302 139.908631 7.267071
629.764223 25.499085 1537.411
0.50000 22.443302 157.527233 7.267071
626.339142 31.251969 1620.309
0.75000 22.443302 176.699967 7.267071
623.137028 41.671360 1769.511
1.00000 22.443302 196.585380 7.267071
620.168609 53.647491 1950.836

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.594552 -721.773519 -11.772728
-836.782795 -45.703019 -4644.828
0.25000 -19.594552 -694.788267 -11.772728
-839.104738 -38.877962 -4064.739
0.50000 -19.594552 -668.088023 -11.772728
-842.406434 -39.172363 -3552.600
0.75000 -19.594552 -642.511792 -11.772728
-845.991811 -43.782928 -3101.480
1.00000 -19.594552 -618.855313 -11.772728
-849.855828 -49.935806 -2709.944

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.088847 50.617432 10.966684
120.408272 17.219770 594.991721
0.25000 6.088847 61.050982 10.966684
136.832014 8.428318 638.358947
0.50000 6.088847 73.020539 10.966684
154.872528 4.877245 690.750884
0.75000 6.088847 86.049887 10.966684
174.534423 4.678327 751.164511
1.00000 6.088847 99.553554 10.966684
196.006943 3.568751 812.055289

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.842929 -333.785791 -0.265065
-391.079311 -16.099498 -1774.766
0.25000 -12.842929 -315.484300 -0.265065
-366.993677 -20.756124 -1533.746
0.50000 -12.842929 -297.375769 -0.265065
-344.033346 -29.239362 -1321.964
0.75000 -12.842929 -280.026645 -0.265065
-322.207267 -40.509527 -1132.527
1.00000 -12.842929 -263.977325 -0.265065
-301.512148 -52.359954 -964.502732

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.059728 98.220126 7.133991
206.760699 20.725828 1165.145
0.25000 14.059728 119.061717 7.133991
206.760699 16.222699 1254.773
0.50000 14.059728 143.002019 7.133991
206.760699 18.250004 1361.081
0.75000 14.059728 169.059746 7.133991
206.760699 22.899641 1481.622
1.00000 14.059728 196.073149 7.133991
206.760699 28.605010 1602.172
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1064

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.636737 -658.849570 -6.318770
-237.738642 -44.103684 -3461.267
0.25000 -17.636737 -622.180181 -6.318770
-237.738642 -41.776238 -2988.521
0.50000 -17.636737 -585.938202 -6.318770
-237.738642 -44.444659 -2573.579
0.75000 -17.636737 -551.167456 -6.318770
-237.738642 -50.270822 -2202.853
1.00000 -17.636737 -519.007934 -6.318770
-237.738642 -56.919282 -1874.473

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 17.757302 118.559272 10.267618
383.876867 27.007031 1423.699
0.25000 17.757302 137.593448 10.267618
383.876867 19.715651 1491.241
0.50000 17.757302 159.455888 10.267618
383.876867 21.403314 1590.123
0.75000 17.757302 183.252096 10.267618
383.876867 26.563575 1736.344
1.00000 17.757302 207.920739 10.267618
383.876867 33.440176 1896.226

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.504183 -735.005612 -7.869624
-695.555729 -45.029714 -4407.786
0.25000 -19.504183 -701.520393 -7.869624
-694.930920 -40.894162 -3863.421
0.50000 -19.504183 -668.426218 -7.869624
-694.306111 -45.411380 -3383.442
0.75000 -19.504183 -636.675089 -7.869624
-693.681302 -53.917634 -2958.159
1.00000 -19.504183 -607.306210 -7.869624
-693.056492 -63.803543 -2585.260

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.896133 122.925986 9.962486
685.283018 28.597165 1485.061
0.25000 16.896133 139.019710 9.962486
685.283018 21.515992 1531.967
0.50000 16.896133 157.506237 9.962486
685.283018 22.675102 1621.076
0.75000 16.896133 177.627824 9.962486
685.283018 28.240202 1776.321
1.00000 16.896133 198.487377 9.962486
685.283018 35.576133 1953.985

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.894904 -728.187648 -8.010824
-717.154527 -41.721447 -4681.118
0.25000 -18.894904 -699.871813 -8.010824
-717.154527 -37.696783 -4114.518
0.50000 -18.894904 -671.886021 -8.010824
-717.154527 -41.879580 -3613.952
0.75000 -18.894904 -645.063630 -8.010824
-717.154527 -50.162697 -3173.558
1.00000 -18.894904 -620.202955 -8.010824
-717.154527 -59.734435 -2790.833

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.839410 40.212955 5.259033
607.532121 16.678724 466.695966
0.25000 4.839410 40.616465 5.259033
605.871775 12.120808 449.189363
0.50000 4.839410 41.082249 5.259033
604.291753 8.591988 445.740617
0.75000 4.839410 41.589677 5.259033
602.793171 7.030142 482.293954
1.00000 4.839410 42.115823 5.259033
601.376195 7.398210 542.419929
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1065

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.848701 -164.431648 -0.872186
-229.389178 -3.331170 -1482.867
0.25000 -7.848701 -163.715541 -0.872186
-231.078253 -4.711166 -1328.163
0.50000 -7.848701 -163.006883 -0.872186
-232.360218 -7.158620 -1191.040
0.75000 -7.848701 -162.327807 -0.872186
-233.759657 -11.032254 -1073.884
1.00000 -7.848701 -161.702358 -0.872186
-235.278691 -16.679277 -977.050884

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.893441 73.969684 5.337869
969.194965 22.781825 917.864472
0.25000 11.893441 77.626395 5.337869
956.633119 18.990285 908.660931
0.50000 11.893441 81.841341 5.337869
944.685996 20.747097 935.449841
0.75000 11.893441 86.434254 5.337869
933.351865 27.137761 1022.220
1.00000 11.893441 91.198054 5.337869
922.634601 37.006153 1172.783

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.508001 -391.656710 -9.512486
-361.183002 -27.229531 -2901.420
0.25000 -11.508001 -385.180545 -9.512486
-370.034230 -20.553822 -2561.931
0.50000 -11.508001 -378.766802 -9.512486
-379.762336 -18.081109 -2282.801
0.75000 -11.508001 -372.625433 -9.512486
-390.371647 -19.328734 -2001.607
1.00000 -11.508001 -366.962762 -9.512486
-401.886937 -23.246725 -1778.740

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.177918 117.565272 6.277378
765.404187 27.541536 1376.534
0.25000 16.177918 136.420350 6.277378
768.027577 23.861208 1442.323
0.50000 16.177918 158.075767 6.277378
770.918493 23.455067 1528.252
0.75000 16.177918 181.636485 6.277378
774.093957 26.684796 1658.937
1.00000 16.177918 206.067479 6.277378
777.576056 32.550188 1802.015

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.223782 -694.501150 -6.495850
-353.568881 -39.745452 -4181.361
0.25000 -19.223782 -661.368064 -6.495850
-348.949897 -37.785370 -3654.385
0.50000 -19.223782 -628.575254 -6.495850
-344.500731 -38.378470 -3190.377
0.75000 -19.223782 -597.146276 -6.495850
-340.218638 -41.512708 -2781.427
1.00000 -19.223782 -568.065795 -6.495850
-336.093124 -46.556013 -2425.721

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.042173	123.585295	13.195549
783.159370	34.052643	1484.266	
0.25000	16.042173	139.083184	13.195549
784.770423	23.661215	1526.969	
0.50000	16.042173	156.883290	13.195549
786.547971	22.304909	1609.905	
0.75000	16.042173	176.250909	13.195549
788.505292	24.959919	1763.129	
1.00000	16.042173	196.333320	13.195549
790.658018	30.168925	1944.163	

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.923892	-720.527192	-6.314651
-664.219771	-38.964689	-4640.376	
0.25000	-21.923892	-693.290269	-6.314651
-661.204742	-37.557581	-4074.468	
0.50000	-21.923892	-666.338488	-6.314651
-658.294666	-45.907503	-3575.524	
0.75000	-21.923892	-640.496249	-6.314651
-655.481582	-57.478308	-3136.308	
1.00000	-21.923892	-616.592880	-6.314651
-652.759772	-70.852637	-2755.115	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.072535	74.986820	10.604503
833.312315	21.851464	748.067853	
0.25000	16.072535	94.329005	10.604503
814.224186	14.276438	939.241409	
0.50000	16.072535	126.488662	10.604503
800.170127	18.639737	1183.855	
0.75000	16.072535	161.864305	10.604503
786.008843	28.065832	1501.502	
1.00000	16.072535	198.817458	10.604503
771.622731	38.094788	1816.394	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.791136	-643.979880	-8.995307
-877.841326	-28.528601	-2297.209	
0.25000	-16.791136	-604.367395	-8.995307
-862.954079	-25.977796	-2195.046	
0.50000	-16.791136	-565.754369	-8.995307
-851.996223	-30.829139	-2094.736	
0.75000	-16.791136	-529.288554	-8.995307
-840.951608	-41.150244	-1996.953	
1.00000	-16.791136	-497.582139	-8.995307
-829.726299	-52.050431	-1901.239	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.443302	124.572169	13.195549
969.194965	34.052643	1496.428	
0.25000	22.443302	139.908631	13.195549
956.633119	25.499085	1537.411	
0.50000	22.443302	161.305269	13.195549
944.685996	31.251969	1621.076	
0.75000	22.443302	184.601506	13.195549
933.351865	41.671360	1776.321	
1.00000	22.443302	208.765315	13.195549
922.634601	53.647491	1953.985	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.923892	-735.005612	-11.772728
-1055.038	-45.703019	-4681.118	
0.25000	-21.923892	-701.520393	-11.772728
-1045.517	-41.776238	-4114.518	
0.50000	-21.923892	-671.886021	-11.772728
-1036.433	-45.907503	-3613.952	
0.75000	-21.923892	-645.036304	-11.772728
-1027.800	-57.478308	-3173.558	
1.00000	-21.923892	-620.202955	-11.772728
-1019.623	-70.852637	-2790.833	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.443302	124.572169	13.195549
969.194965	34.052643	1496.428	
0.25000	22.443302	139.908631	13.195549
956.633119	25.499085	1537.411	
0.50000	22.443302	161.305269	13.195549
944.685996	31.251969	1621.076	
0.75000	22.443302	184.601506	13.195549
933.351865	41.671360	1776.321	
1.00000	22.443302	208.765315	13.195549
922.634601	53.647491	1953.985	

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.923892	-735.005612	-11.772728
-1055.038	-45.703019	-4681.118	
0.25000	-21.923892	-701.520393	-11.772728
-1045.517	-41.776238	-4114.518	
0.50000	-21.923892	-671.886021	-11.772728
-1036.433	-45.907503	-3613.952	
0.75000	-21.923892	-645.036304	-11.772728
-1027.800	-57.478308	-3173.558	
1.00000	-21.923892	-620.202955	-11.772728
-1019.623	-70.852637	-2790.833	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.443302	124.572169	13.195549
969.194965	34.052643	1496.428	
0.25000	22.443302	139.908631	13.195549
956.633119	25.499085	1537.411	
0.50000	22.443302	161.305269	13.195549
944.685996	31.251969	1621.076	
0.75000	22.443302	184.601506	13.195549
933.351865	41.671360	1776.321	
1.00000	22.443302	208.765315	13.195549
922.634601	53.647491	1953.985	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.923892	-735.005612	-11.772728
-1055.038	-45.703019	-4681.118	
0.25000	-21.923892	-701.520393	-11.772728
-1045.517	-41.776238	-4114.518	
0.50000	-21.923892	-671.886021	-11.772728
-1036.433	-45.907503	-3613.952	
0.75000	-21.923892	-645.036304	-11.772728
-1027.800	-57.478308	-3173.558	
1.00000	-21.923892	-620.202955	-11.772728
-1019.623	-70.852637	-2790.833	

ELEM 76 ========== LENGTH = 4.957854

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.082088	25.075192	2.380473
64.655789	17.894195	372.065485	
0.25000	6.082088	25.576402	2.380473
65.851696	16.136666	448.923747	
0.50000	6.082088	26.149841	2.380473
67.057001	14.776201	539.092242	
0.75000	6.082088	26.773269	2.380473
68.279646	13.660298	639.310622	
1.00000	6.082088	27.431327	2.380473
69.944172	12.788759	746.202464	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.039735	-111.483175	-0.217736
-500.814988	-2.865765	-705.768469	
0.25000	-6.039735	-110.815657	-0.217736
-499.144637	-2.787982	-679.985063	
0.50000	-6.039735	-110.169047	-0.217736
-497.913054	-2.716515	-654.222662	
0.75000	-6.039735	-109.562375	-0.217736
-496.679714	-2.654282	-628.573909	
1.00000	-6.039735	-109.013995	-0.217736
-495.436037	-2.603847	-603.002792	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.517192	62.473024	2.260740
131.438795	19.923345	983.771071	
0.25000	9.517192	67.506478	2.260740
142.189231	18.357728	1111.740	
0.50000	9.517192	73.219876	2.260740
153.024948	17.090334	1265.360	

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	9.517192	79.452920	2.260740
164.017738	16.317987	1450.915	
1.00000	9.517192	86.030054	2.260740
178.988796	17.190152	1657.831	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.714167	-267.230093	-2.902381
-864.865609	-34.255577	-1277.267	
0.25000	-10.714167	-260.558461	-2.902381
-849.837940	-31.305816	-1226.478	
0.50000	-10.714167	-254.093317	-2.902381
-838.755061	-28.363854	-1175.729	
0.75000	-10.714167	-248.027231	-2.902381
-827.656817	-25.434095	-1125.150	
1.00000	-10.714167	-242.544064	-2.902381
-816.466593	-22.520203	-1074.721	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.419750	125.817250	2.453513
92.138446	28.025222	1667.518	
0.25000	15.419750	155.131795	2.453513
92.138446	27.239085	1923.399	
0.50000	15.419750	188.300906	2.453513
92.138446	27.427959	2156.634	
0.75000	15.419750	224.473499	2.453513
92.138446	28.708194	2371.200	
1.00000	15.419750	262.539090	2.453513
92.138446	31.438155	2564.604	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.214252	-535.083461	-5.013011
-657.978714	-36.362737	-1727.663	
0.25000	-16.214252	-496.471986	-5.013011
-660.007809	-32.790300	-1655.730	
0.50000	-16.214252	-458.930185	-5.013011
-661.639548	-29.224916	-1583.866	
0.75000	-16.214252	-423.690756	-5.013011
-663.635672	-25.684956	-1512.334	
1.00000	-16.214252	-391.843718	-5.013011
-666.649782	-22.180765	-1440.989	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.837237	124.967585	3.322581
356.658757	39.261905	1794.166	
0.25000	14.837237	149.074350	3.322581
356.658757	37.094233	2042.494	
0.50000	14.837237	176.350718	3.322581
356.658757	35.745585	2287.463	
0.75000	14.837237	206.101497	3.322581
356.658757	35.292012	2538.627	
1.00000	14.837237	237.401235	3.322581
356.658757	36.188022	2791.429	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.313998	-534.891104	-4.746739
-594.444903	-35.663740	-1901.483	
0.25000	-15.313998	-503.138465	-4.746739
-594.444903	-32.181357	-1822.548	
0.50000	-15.313998	-472.265987	-4.746739
-594.444903	-28.705994	-1743.682	
0.75000	-15.313998	-443.287362	-4.746739
-594.980715	-25.243786	-1665.129	
1.00000	-15.313998	-417.096690	-4.746739
-595.696116	-21.819712	-1586.731	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.093957	62.918187	0.174310
69.568992	2.744201	836.040942	

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	6.093957	78.906186	0.174310
89.466401	2.674728	938.097906	
0.50000	6.093957	97.024067	0.174310
109.530495	3.253605	1025.637	
0.75000	6.093957	116.788103	0.174310
129.901795	5.383430	1106.633	
1.00000	6.093957	137.617937	0.174310
157.714988	8.514494	1177.898	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.117953	-260.985777	-3.662000
-354.571134	-36.967680	-666.925710	
0.25000	-7.117953	-239.855598	-3.662000
-326.597501	-33.381677	-636.896037	
0.50000	-7.117953	-219.351873	-3.662000
-305.932079	-29.804618	-606.883600	
0.75000	-7.117953	-200.110589	-3.662000
-285.243736	-26.231368	-577.026339	
1.00000	-7.117953	-182.719049	-3.662000
-264.397567	-22.686190	-547.264698	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.267027	124.302415	1.550848
156.469447	25.409433	1637.373	
0.25000	12.267027	156.309776	1.550848
156.469447	24.872225	1839.131	
0.50000	12.267027	192.525455	1.550848
156.469447	25.144520	2009.800	
0.75000	12.267027	232.026659	1.550848
156.469447	26.362224	2163.872	
1.00000	12.267027	273.584588	1.550848
156.469447	29.214084	2296.508	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.096916	-512.145804	-5.608195
-179.212870	-41.023105	-1285.698	
0.25000	-13.096916	-469.986559	-5.608195
-179.212870	-37.477976	-1222.021	
0.50000	-13.096916	-428.996119	-5.608195
-179.212870	-32.474512	-1170.406	
0.75000	-13.096916	-390.520391	-5.608195
-179.212870	-28.203938	-1113.098	
1.00000	-13.096916	-355.745686	-5.608195
-179.212870	-23.967775	-1055.910	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.988552	130.489455	1.973156
185.613100	29.862057	1817.582	
0.25000	13.988552	159.617776	1.973156
185.613100	29.016076	2060.675	
0.50000	13.988552	192.575680	1.973156
185.613100	29.193691	2284.167	
0.75000	13.988552	228.524055	1.973156
185.613100	30.249307	2503.551	
1.00000	13.988552	266.344892	1.973156
185.613100	32.686482	2713.483	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.454068	-552.631737	-6.163065
-536.969822	-50.867366	-1723.039	
0.25000	-14.454068	-514.264117	-6.163065
-536.953671	-45.679218	-1649.163	
0.50000	-14.454068	-476.960696	-6.163065
-536.846535	-40.493001	-1575.366	
0.75000	-14.454068	-441.904004	-6.163065
-536.764508	-35.309044	-1501.860	
1.00000	-14.454068	-410.298216	-6.163065
-536.741893	-30.320314	-1428.469	

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.414942	123.840491	2.289575
447.894888	29.024477	1803.234	
0.25000	13.414942	148.380903	2.289575
447.894888	28.102666	2057.265	
0.50000	13.414942	176.147880	2.289575
447.894888	27.849735	2301.759	
0.75000	13.414942	206.433907	2.289575
447.894888	28.361002	2551.910	
1.00000	13.414942	238.296848	2.289575
447.894888	30.006104	2802.681	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.900274	-536.800779	-5.528920
-473.928027	-43.696672	-1897.665	
0.25000	-13.900274	-504.476801	-5.528920
-473.928027	-43.658882	-1818.390	
0.50000	-13.900274	-473.048960	-5.528920
-473.928027	-38.822558	-1739.218	
0.75000	-13.900274	-443.549178	-5.528920
-473.928027	-33.988067	-1660.299	
1.00000	-13.900274	-416.887912	-5.528920
-473.928027	-29.324941	-1581.498	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.657714	25.184755	1.926807
480.906408	4.696967	395.547965	
0.25000	4.657714	25.783352	1.926807
478.862421	4.382291	474.216957	
0.50000	4.657714	26.463892	1.926807
477.361787	4.067778	566.314347	
0.75000	4.657714	27.205997	1.926807
475.557957	3.774166	669.732547	
1.00000	4.657714	27.984148	1.926807
474.339007	3.453977	780.960321	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.750601	-115.741600	-0.685416
-56.314730	-10.390921	-705.566065	
0.25000	-4.750601	-114.952115	-0.685416
-57.799357	-9.587764	-679.677674	
0.50000	-4.750601	-114.181649	-0.685416
-59.293729	-8.793031	-653.810327	
0.75000	-4.750601	-113.458128	-0.685416
-60.806738	-9.376140	-628.165600	
1.00000	-4.750601	-112.807152	-0.685416
-62.853751	-11.175783	-602.440510	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.535074	65.119924	3.771183
819.664239	29.504747	1022.279	
0.25000	8.535074	71.526620	3.771183
800.721632	26.911108	1155.603	
0.50000	8.535074	78.805965	3.771183
786.819076	24.317735	1310.661	
0.75000	8.535074	86.744080	3.771183
772.886155	21.726810	1494.027	
1.00000	8.535074	95.071533	3.771183
758.811377	19.663855	1696.624	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.516938	-278.496857	-1.916238
-129.509306	-17.145334	-1254.737	
0.25000	-8.516938	-270.048226	-1.916238
-143.283013	-15.626729	-1204.984	
0.50000	-8.516938	-261.807288	-1.916238
-157.145788	-14.110354	-1155.376	
0.75000	-8.516938	-254.068943	-1.916238
-171.179457	-12.620370	-1105.903	
1.00000	-8.516938	-247.102232	-1.916238
-190.157260	-12.991006	-1056.450	

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.263825	125.984378	2.948939
599.855473	25.159418	1684.504	
0.25000	14.263825	155.555905	2.948939
599.855473	24.626471	1940.559	
0.50000	14.263825	189.015148	2.948939
599.855473	24.867804	2172.771	
0.75000	14.263825	225.510693	2.948939
599.855473	25.943382	2386.489	
1.00000	14.263825	263.907019	2.948939
599.855473	27.915137	2579.366	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.267920	-537.263917	-4.637503
-111.457750	-32.351746	-1702.051	
0.25000	-14.267920	-498.312112	-4.637503
-110.760209	-29.044935	-1631.213	
0.50000	-14.267920	-460.441066	-4.637503
-110.073506	-25.739438	-1560.523	
0.75000	-14.267920	-424.894233	-4.637503
-109.421283	-22.435983	-1490.128	
1.00000	-14.267920	-392.763667	-4.637503
-108.824125	-20.521202	-1419.833	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.880749	124.417403	2.693457
542.509246	23.836633	1792.221	
0.25000	13.880749	148.635151	2.693457
542.509246	23.427308	2042.565	
0.50000	13.880749	176.037010	2.693457
542.509246	23.641630	2288.033	
0.75000	13.880749	205.924871	2.693457
542.509246	24.567648	2539.622	
1.00000	13.880749	237.368963	2.693457
542.509246	26.681593	2792.109	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.835492	-535.282850	-5.889833
-389.035284	-54.667160	-1894.487	
0.25000	-14.835492	-503.383790	-5.889833
-389.035284	-49.371285	-1815.740	
0.50000	-14.835492	-472.369164	-5.889833
-389.035284	-44.110869	-1737.130	
0.75000	-14.835492	-443.203403	-5.889833
-389.035284	-38.941863	-1658.783	
1.00000	-14.835492	-416.945515	-5.889833
-389.035285	-34.934230	-1580.535	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.086804	38.291455	3.989013
132.590252	35.821294	532.227204	
0.25000	14.086804	38.655558	3.989013
133.536843	31.705651	578.756982	
0.50000	14.086804	39.067266	3.989013
134.564414	27.754167	645.264907	
0.75000	14.086804	39.510907	3.989013
135.672469	24.013866	732.205922	
1.00000	14.086804	39.968763	3.989013
136.861412	20.750772	863.725586	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.696516	-153.773602	-0.400258
-612.411097	-3.806703	-986.149579	
0.25000	-6.696516	-153.233923	-0.400258
-611.063473	-3.689103	-888.077932	
0.50000	-6.696516	-152.699963	-0.400258
-609.790371	-3.644476	-812.258614	
0.75000	-6.696516	-152.190862	-0.400258
-608.593248	-3.652312	-759.925391	
1.00000	-6.696516	-151.722895	-0.400258
-607.472260	-4.248811	-763.127609	

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.726084	90.346697	3.823272
236.544564	33.784371	1160.644	
0.25000	16.726084	93.375190	3.823272
243.287601	30.078722	1229.015	
0.50000	16.726084	96.800355	3.823272
250.606280	26.677816	1339.445	
0.75000	16.726084	100.488894	3.823272
258.494746	24.034726	1491.279	
1.00000	16.726084	104.296658	3.823272
266.973995	23.024514	1746.311	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.953552	-327.533628	-4.528650
-990.423114	-47.003444	-1806.697	
0.25000	-15.953552	-323.043754	-4.528650
-980.798234	-42.210629	-1614.044	
0.50000	-15.953552	-318.603410	-4.528650
-971.171821	-37.504982	-1421.097	
0.75000	-15.953552	-314.370004	-4.528650
-963.163486	-33.429398	-1354.545	
1.00000	-15.953552	-310.479422	-4.528650
-955.154046	-30.193282	-1353.659	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.698928	158.860355	4.159532
214.650763	42.959078	1824.060	
0.25000	21.698928	179.279033	4.159532
209.713691	39.793355	1971.249	
0.50000	21.698928	202.376324	4.159532
205.118914	37.487998	2137.280	
0.75000	21.698928	227.256474	4.159532
200.857824	36.518905	2326.770	
1.00000	21.698928	252.930865	4.159532
196.921830	37.298891	2600.711	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.520122	-579.875014	-6.701125
-799.761187	-52.346204	-2501.831	
0.25000	-20.520122	-549.609179	-6.701125
-803.942095	-46.355100	-2220.403	
0.50000	-20.520122	-519.703986	-6.701125
-808.435541	-40.792158	-1996.662	
0.75000	-20.520122	-491.166795	-6.701125
-813.248607	-35.964362	-1838.098	
1.00000	-20.520122	-464.957904	-6.701125
-818.393654	-32.089002	-1831.447	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.890409	162.034037	4.897946
477.119194	55.159755	1951.551	
0.25000	21.890409	178.838523	4.897946
473.769195	50.898469	2091.204	
0.50000	21.890409	197.846367	4.897946
470.661350	47.402514	2268.330	
0.75000	21.890409	218.321428	4.897946
467.788117	45.114573	2489.023	
1.00000	21.890409	239.450124	4.897946
465.141233	44.317263	2813.251	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.029140	-592.471004	-6.302338
-737.827333	-49.680360	-2709.600	
0.25000	-19.029140	-567.558107	-6.302338
-740.758624	-43.997174	-2407.302	
0.50000	-19.029140	-542.947212	-6.302338
-743.905978	-38.690645	-2167.661	
0.75000	-19.029140	-519.462338	-6.302338
-747.274747	-34.098801	-1998.275	
1.00000	-19.029140	-497.892652	-6.302338
-750.870922	-30.344770	-1993.333	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1073

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.824930	76.392179	0.267099
96.8357098	3.379459	812.457034	
0.25000	5.824930	87.815744	0.267099
113.793174	3.279493	868.774334	
0.50000	5.824930	100.735879	0.267099
132.209675	4.068747	928.405885	
0.75000	5.824930	114.651538	0.267099
152.087577	5.903868	996.896728	
1.00000	5.824930	129.013442	0.267099
173.420934	8.745339	1094.112	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.596723	-263.649166	-5.319458
-363.629197	-51.063280	-964.187010	
0.25000	-12.596723	-246.719140	-5.319458
-339.242420	-45.071332	-847.908034	
0.50000	-12.596723	-229.972588	-5.319458
-316.264041	-39.529127	-754.027505	
0.75000	-12.596723	-214.006783	-5.319458
-294.611668	-34.502339	-686.634589	
1.00000	-12.596723	-199.334694	-5.319458
-274.264553	-30.006344	-679.744889	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.543541	150.759259	1.819758
181.530383	29.143354	1602.138	
0.25000	13.543541	173.594017	1.819758
181.530383	28.374165	1714.823	
0.50000	13.543541	199.422041	1.819758
181.530383	28.395190	1833.927	
0.75000	13.543541	227.243843	1.819758
181.530383	29.703539	1966.439	
1.00000	13.543541	255.953910	1.819758
181.530383	32.492286	2155.355	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.108652	-518.800191	-7.255262
-207.210146	-55.711573	-1874.449	
0.25000	-17.108652	-484.946474	-7.255262
-207.210146	-49.960239	-1648.568	
0.50000	-17.108652	-451.507044	-7.255262
-207.210146	-42.578772	-1466.864	
0.75000	-17.108652	-419.593882	-7.255262
-207.210146	-36.939161	-1337.001	
1.00000	-17.108652	-390.272072	-7.255262
-207.210146	-31.918651	-1325.355	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.224713	164.037991	2.509302
259.245805	34.641642	1897.182	
0.25000	17.224713	184.892493	2.509302
259.245805	33.481199	2035.306	
0.50000	17.224713	208.478923	2.509302
259.245805	33.276196	2196.429	
0.75000	17.224713	233.886123	2.509302
259.245805	34.500262	2387.731	
1.00000	17.224713	260.104523	2.509302
259.245955	36.970202	2663.186	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.945421	-591.508669	-7.454518
-637.098346	-62.646334	-2585.207	
0.25000	-18.945421	-560.592595	-7.454518
-636.411443	-55.828107	-2310.417	
0.50000	-18.945421	-530.055052	-7.454518
-635.700939	-49.572727	-2088.914	
0.75000	-18.945421	-500.909829	-7.454518
-634.975057	-44.236360	-1901.747	
1.00000	-18.945421	-474.132346	-7.454518
-634.242097	-39.467918	-1878.555	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1074

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.379516	159.601106	3.081653
558.730851	36.872037	1953.955	
0.25000	16.379516	177.233940	3.081653
558.730851	34.820398	2100.753	
0.50000	16.379516	197.178152	3.081653
558.730851	33.567074	2282.028	
0.75000	16.379516	218.661945	3.081653
558.730851	33.622592	2502.063	
1.00000	16.379516	240.831650	3.081653
558.730851	35.000332	2819.919	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.365516	-595.224132	-6.762786
-589.925682	-59.277165	-2791.198	
0.25000	-18.365516	-569.082538	-6.762786
-589.925682	-52.872751	-2496.846	
0.50000	-18.365516	-543.260854	-6.762786
-589.925682	-46.933101	-2261.863	
0.75000	-18.365516	-518.617742	-6.762786
-589.925682	-41.869782	-2071.496	
1.00000	-18.365516	-495.975654	-6.762786
-589.925682	-37.558164	-2055.093	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.647242	38.089521	1.893387
575.384384	7.279241	540.993270	
0.25000	4.647242	38.531626	1.893387
573.724434	6.388993	590.138542	
0.50000	4.647242	39.034305	1.893387
572.160135	5.706368	661.109885	
0.75000	4.647242	39.575781	1.893387
570.691871	5.150350	752.506499	
1.00000	4.647242	40.134310	1.893387
569.318559	4.810092	888.569296	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.635952	-157.074426	-1.077944
-107.546809	-15.675666	-977.698175	
0.25000	-7.635952	-156.416559	-1.077944
-108.740725	-14.962598	-880.173266	
0.50000	-7.635952	-155.766335	-1.077944
-110.035518	-14.457614	-805.871725	
0.75000	-7.635952	-155.145772	-1.077944
-111.429973	-14.900952	-756.274145	
1.00000	-7.635952	-154.578290	-1.077944
-112.926353	-15.860346	-761.266543	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.575223	91.299728	3.888548
912.052923	36.703408	1170.795	
0.25000	11.575223	95.305406	3.888548
899.507091	33.717059	1244.522	
0.50000	11.575223	99.855942	3.888548
887.685340	31.063463	1359.473	
0.75000	11.575223	104.757483	3.888548
876.588439	28.731213	1520.940	
1.00000	11.575223	109.814933	3.888548
866.216757	26.833959	1766.128	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.117129	-332.786908	-2.507048
-204.651199	-22.620919	-1779.675	
0.25000	-11.117129	-326.833398	-2.507048
-213.701223	-20.880061	-1587.113	
0.50000	-11.117129	-320.943436	-2.507048
-223.504502	-19.473230	-1442.906	
0.75000	-11.117129	-315.324425	-2.507048
-234.068745	-18.426644	-1343.032	
1.00000	-11.117129	-310.182120	-2.507048
-245.398883	-18.835703	-1343.459	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1075

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.590418	156.661615	3.348006
716.662763	32.599621	1800.335	
0.25000	15.590418	177.319923	3.348006
719.552047	31.000520	1948.875	
0.50000	15.590418	200.677934	3.348006
722.720184	30.366151	2115.990	
0.75000	15.590418	225.839194	3.348006
726.167286	31.000914	2304.812	
1.00000	15.590418	251.803895	3.348006
729.885455	32.502104	2574.723	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.581384	-574.106912	-5.911431
-211.854629	-45.365050	-2426.480	
0.25000	-18.581384	-543.487263	-5.911431
-206.840286	-40.466046	-2122.656	
0.50000	-18.581384	-513.242995	-5.911431
-202.048257	-36.173480	-1936.344	
0.75000	-18.581384	-484.379717	-5.911431
-197.488342	-32.662361	-1785.655	
1.00000	-18.581384	-457.854810	-5.911431
-193.171050	-30.640304	-1781.861	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.503482	160.841897	3.076586
678.925656	30.507848	1943.481	
0.25000	15.503482	177.821941	3.076586
680.556124	29.305131	2085.456	
0.50000	15.503482	197.022225	3.076586
682.555833	28.967715	2264.939	
0.75000	15.503482	217.704759	3.076586
684.736004	29.744804	2486.413	
1.00000	15.503482	239.047703	3.076586
687.090662	31.695695	2810.465	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.367707	-592.389133	-7.456388
-517.038701	-69.318514	-2755.518	
0.25000	-21.367707	-567.220117	-7.456388
-513.703206	-62.455452	-2460.197	
0.50000	-21.367707	-542.359534	-7.456388
-510.504860	-56.146962	-2225.440	
0.75000	-21.367707	-518.634237	-7.456388
-507.457202	-50.554269	-2058.235	
1.00000	-21.367707	-496.832032	-7.456388
-504.556659	-46.389817	-2047.589	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.419750	130.489455	3.771183
819.664239	39.261905	1817.582	
0.25000	15.419750	159.617776	3.771183
800.721632	37.094233	2060.675	
0.50000	15.419750	192.575680	3.771183
786.819076	35.745585	2301.759	
0.75000	15.419750	232.028433	3.771183
772.886155	35.292012	2551.910	
1.00000	15.419750	273.584588	3.771183
758.811377	36.188022	2802.681	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.214252	-552.631737	-6.163065
-864.865609	-54.667160	-1901.483	
0.25000	-16.214252	-514.264117	-6.163065
-849.837940	-49.371285	-1822.548	
0.50000	-16.214252	-476.960696	-6.163065
-838.755061	-44.110869	-1743.682	
0.75000	-16.214252	-443.549178	-6.163065
-827.656817	-38.941863	-1665.129	
1.00000	-16.214252	-417.096690	-6.163065
-816.466593	-34.934230	-1586.731	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1076

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.890409	164.037991	4.897946
912.052923	55.159755	1953.955	
0.25000	21.890409	184.892493	4.897946
899.507091	50.898469	2100.753	
0.50000	21.890409	208.478923	4.897946
887.685340	47.402514	2282.028	
0.75000	21.890409	233.886123	4.897946
876.588439	45.114573	2502.063	
1.00000	21.890409	260.104523	4.897946
866.216757	44.317263	2819.919	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.367707	-595.224132	-7.456388
-990.423114	-69.318514	-2791.198	
0.25000	-21.367707	-569.082538	-7.456388
-980.798234	-62.455452	-2496.846	
0.50000	-21.367707	-543.260854	-7.456388
-971.711821	-56.146962	-2261.863	
0.75000	-21.367707	-519.462338	-7.456388
-963.163486	-50.554269	-2071.496	
1.00000	-21.367707	-497.892652	-7.456388
-955.154046	-46.389817	-2055.093	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.890409	164.037991	4.897946
912.052923	55.159755	1953.955	
0.25000	21.890409	184.892493	4.897946
899.507091	50.898469	2100.753	
0.50000	21.890409	208.478923	4.897946
887.685340	47.402514	2301.759	
0.75000	21.890409	233.886123	4.897946
876.588439	45.114573	2551.910	
1.00000	21.890409	273.584588	4.897946
866.216757	44.317263	2819.919	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.367707	-595.224132	-7.456388
-990.423114	-69.318514	-2791.198	
0.25000	-21.367707	-569.082538	-7.456388
-980.798234	-62.455452	-2496.846	
0.50000	-21.367707	-543.260854	-7.456388
-971.711821	-56.146962	-2261.863	
0.75000	-21.367707	-519.462338	-7.456388
-963.163486	-50.554269	-2071.496	
1.00000	-21.367707	-497.892652	-7.456388
-955.154046	-46.389817	-2055.093	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.890409	164.037991	4.897946
912.052923	55.159755	1953.955	
0.25000	21.890409	184.892493	4.897946
899.507091	50.898469	2100.753	
0.50000	21.890409	208.478923	4.897946
887.685340	47.402514	2301.759	
0.75000	21.890409	233.886123	4.897946
876.588439	45.114573	2551.910	
1.00000	21.890409	273.584588	4.897946
866.216757	44.317263	2819.919	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.367707	-595.224132	-7.456388
-990.423114	-69.318514	-2791.198	
0.25000	-21.367707	-569.082538	-7.456388
-980.798234	-62.455452	-2496.846	
0.50000	-21.367707	-543.260854	-7.456388
-971.711821	-56.146962	-2261.863	
0.75000	-21.367707	-519.462338	-7.456388
-963.163486	-50.554269	-2071.496	
1.00000	-21.367707	-497.892652	-7.456388
-955.154046	-46.389817	-2055.093	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1077

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 77 ========== LENGTH = 4.958453

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.875348	25.433215	2.391927
68.378007	12.924648	747.882021	
0.25000	5.875348	25.950761	2.391927
69.569449	11.298248	805.216587	
0.50000	5.875348	26.538688	2.391927
70.792671	10.102864	873.146002	
0.75000	5.875348	27.180495	2.391927
72.057181	9.124353	949.714621	
1.00000	5.875348	27.855999	2.391927
73.793258	8.364655	1032.658	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.817923	-91.774618	-0.538703
-417.135871	-3.054356	-603.223002	
0.25000	-5.817923	-91.095688	-0.538703
-415.417980	-3.034103	-574.041203	
0.50000	-5.817923	-90.442762	-0.538703
-414.148907	-3.029214	-544.859405	
0.75000	-5.817923	-89.833245	-0.538703
-412.858316	-4.048842	-515.677606	
1.00000	-5.817923	-89.286294	-0.538703
-411.536502	-5.593070	-486.495808	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.150784	76.195534	2.362179
148.070830	17.753025	1660.253	
0.25000	9.150784	81.370349	2.362179
158.789768	17.784274	1743.645	
0.50000	9.150784	87.248951	2.362179
169.796250	18.322344	1849.214	
0.75000	9.150784	93.666069	2.362179
181.175680	19.324681	1984.840	
1.00000	9.150784	100.417852	2.362179
196.800115	20.648782	2140.427	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.439581	-227.877510	-3.844596
-744.169804	-22.978825	-1075.042	
0.25000	-10.439581	-221.091488	-3.844596
-728.704425	-19.348875	-1023.657	
0.50000	-10.439581	-214.563014	-3.844596
-717.279898	-15.818477	-972.271455	
0.75000	-10.439581	-208.468338	-3.844596
-705.660615	-12.308772	-920.886193	
1.00000	-10.439581	-202.999349	-3.844596
-693.757654	-9.716919	-869.500931	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.784025	156.621388	3.387063
102.837845	33.001139	2566.471	
0.25000	14.784025	186.674946	3.387063
102.494675	32.463912	2754.618	
0.50000	14.784025	220.822534	3.387063
102.494675	33.186987	2916.217	
0.75000	14.784025	258.085234	3.387063
102.494675	35.086165	3057.550	
1.00000	14.784025	297.171514	3.387063
102.494675	37.869853	3177.178	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.641116	-477.827239	-5.484759
-554.529711	-23.216944	-1441.231	
0.25000	-15.641116	-438.543055	-5.484759
-556.584053	-19.925402	-1373.059	
0.50000	-15.641116	-400.623468	-5.484759
-558.596296	-16.850190	-1304.888	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1078

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.320900	155.542295	4.376345
327.034834	38.003399	2792.172	
0.25000	14.320900	180.258087	4.376345
327.034834	35.875202	2965.578	
0.50000	14.320900	208.338882	4.376345
327.034834	35.053329	3132.312	
0.75000	14.320900	238.981846	4.376345
327.034834	35.603256	3302.425	
1.00000	14.320900	271.124828	4.376345
327.034834	37.385275	3472.690	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.739971	-472.203728	-5.172315
-509.639175	-23.714323	-1586.801	
0.25000	-14.739971	-439.898023	-5.172315
-509.639175	-20.495668	-1511.780	
0.50000	-14.739971	-408.714982	-5.172315
-510.064744	-17.462883	-1436.760	
0.75000	-14.739971	-379.593837	-5.172315
-510.620865	-14.506382	-1361.741	
1.00000	-14.739971	-353.465799	-5.172315
-511.191140	-12.094258	-1286.723	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.803544	84.138879	0.157459
83.283772	9.206541	178.466	
0.25000	5.803544	100.551844	0.157459
103.235219	11.181079	1249.105	
0.50000	5.803544	119.197847	0.157459
123.743110	13.545516	1304.525	
0.75000	5.803544	139.549213	0.157459
144.964766	16.300960	1353.249	
1.00000	5.803544	160.934428	0.157459
174.120349	19.395434	1392.775	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.922913	-236.510996	-3.792602
-329.651888	-22.531027	-547.325507	
0.25000	-6.922913	-215.016406	-3.792602
-300.761739	-18.463292	-521.770736	
0.50000	-6.922913	-194.309636	-3.792602
-279.377717	-14.463202	-496.215965	
0.75000	-6.922913	-174.976068	-3.792602
-257.641493	-11.545168	-470.661195	
1.00000	-6.922913	-157.628123	-3.792602
-235.393007	-6.867708	-445.106424	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.781744	165.493157	2.750888
150.550154	30.966682	2296.400	
0.25000	11.781744	198.309609	2.750888
150.550154	30.821097	2437.599	
0.50000	11.781744	235.593274	2.750888
150.550154	32.066653	2640.462	
0.75000	11.781744	276.273982	2.750888
150.550154	34.853008	2638.074	
1.00000	11.781744	318.956458	2.750888
150.550154	38.738539	2709.506	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.605872	-464.757595	-5.655675
-167.049823	-24.769305	-1055.865	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1079

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-12.605872	-421.864075	-5.655675
-167.049823	-20.927913	-1006.763	
0.50000	-12.605872	-380.461327	-5.655675
-167.049823	-17.143772	-957.661077	
0.75000	-12.605872	-341.796405	-5.655675
-167.049823	-13.437315	-908.559273	
1.00000	-12.605872	-307.104884	-5.655675
-167.049823	-9.881836	-859.457469	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.461929	166.401714	3.071404
179.228389	34.587925	2714.610	
0.25000	13.461929	196.267676	3.071404
179.228389	33.841187	2884.555	
0.50000	13.461929	230.197276	3.071404
179.228389	34.403855	3033.063	
0.75000	13.461929	267.223380	3.071404
179.228389	36.370346	3174.849	
1.00000	13.461929	306.062502	3.071404
179.228389	39.463522	3307.020	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.909966	-493.400386	-6.518377
-466.893981	-31.097260	-1428.593	
0.25000	-13.909966	-454.364675	-6.518377
-466.504493	-25.953281	-1361.437	
0.50000	-13.909966	-416.686144	-6.518377
-466.032008	-21.184202	-1294.282	
0.75000	-13.909966	-381.499671	-6.518377
-465.608452	-16.569056	-1227.127	
1.00000	-13.909966	-349.927350	-6.518377
-465.255732	-12.226195	-1159.973	

COMB DB-G2-4 ---------- MAX

REL DIST	T	V2	M2	V3	M3
0.00000	12.882837	152.858616	2.985249	395.241649	31.736824
0.25000	12.882837	178.019366	2.985249	395.241649	30.589161
0.50000	12.882837	206.605180	2.985249	395.241649	30.506576
0.75000	12.882837	237.799380	2.985249	395.241649	31.620185
1.00000	12.882837	270.520691	2.985249	395.241649	34.376558

COMB DB-G2-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-13.365948	-473.781710	-414.808208	-31.217881	-1581.457	-5.903409
0.25000	-13.365948	-440.894755	-414.808208	-26.317243	-1506.703	-5.903409
0.50000	-13.365948	-409.150793	-414.808208	-21.727807	-1431.949	-5.903409
0.75000	-13.365948	-379.505952	-414.808208	-17.270081	-1357.195	-5.903409
1.00000	-13.365948	-352.907565	-414.808208	-13.038478	-1282.442	-5.903409

COMB DB-G3-1 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	4.442950	25.696343	401.664240	4.099432	779.269802	1.432259
0.25000	4.442950	26.310531	399.580739	3.915522	836.899761	1.432259
0.50000	4.442950	27.011575	398.050202	3.981678	905.710278	1.432259
0.75000	4.442950	27.776308	396.490693	4.239657	984.506895	1.432259
1.00000	4.442950	28.575759	394.889484	4.604235	1070.255	1.432259

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1080

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-4.540529	-95.667254	-60.803049	-9.289018	-602.220493	-0.955073
0.25000	-4.540529	-94.863765	-62.261047	-8.160317	-572.940097	-0.955073
0.50000	-4.540529	-94.085323	-63.754262	-7.956886	-543.659701	-0.955073
0.75000	-4.540529	-93.358080	-65.294685	-8.519077	-514.379305	-0.955073
1.00000	-4.540529	-92.708574	-67.406065	-9.441024	-485.098909	-0.955073

COMB DB-G3-2 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	8.244022	79.461214	710.567267	20.797093	1694.209	3.805737
0.25000	8.244022	86.034405	691.274967	18.475916	1782.663	3.805737
0.50000	8.244022	93.532441	677.103194	17.127577	1889.105	3.805737
0.75000	8.244022	101.712069	662.664415	17.019665	2021.710	3.805737
1.00000	8.244022	110.266968	647.837477	17.627149	2172.483	3.805737

COMB DB-G3-2 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-8.118751	-239.067968	-145.901711	-14.198383	-1056.104	-2.209688
0.25000	-8.118751	-230.469836	-159.412445	-12.559221	-1005.687	-2.209688
0.50000	-8.118751	-222.143920	-173.254864	-10.921502	-955.270364	-2.209688
0.75000	-8.118751	-214.366002	-187.523359	-10.100589	-904.853481	-2.209688
1.00000	-8.118751	-207.415150	-207.079218	-10.794692	-854.436597	-2.209688

COMB DB-G3-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	13.680754	157.169678	508.047272	29.786435	2577.370	3.523577
0.25000	13.680754	187.490901	508.047272	28.858303	2765.559	3.523577
0.50000	13.680754	221.936558	508.047272	29.379905	2926.002	3.523577
0.75000	13.680754	259.526072	508.047272	31.325167	3066.005	3.523577
1.00000	13.680754	298.956472	508.047272	34.317565	3184.920	3.523577

COMB DB-G3-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-13.622099	-480.208068	-118.199038	-22.046576	-1419.533	-4.611717
0.25000	-13.622099	-440.578103	-117.013284	-19.197874	-1352.368	-4.611717
0.50000	-13.622099	-402.326315	-115.951406	-16.388214	-1285.204	-4.611717
0.75000	-13.622099	-366.604848	-114.928753	-14.179526	-1218.039	-4.611717
1.00000	-13.622099	-334.551248	-113.962821	-13.692867	-1150.874	-4.611717

COMB DB-G3-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	13.314595	154.666617	470.049604	28.551739	2791.301	3.188556
0.25000	13.314595	179.496748	470.049604	28.322898	2966.401	3.188556
0.50000	13.314595	207.706644	470.049604	29.339266	3133.372	3.188556
0.75000	13.314595	238.490702	470.049604	31.604992	3303.270	3.188556
1.00000	13.314595	270.781853	470.049604	34.750801	3472.785	3.188556

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1081

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-14.316920	-472.608316	-350.348311	-35.986851	-1580.402	-6.417906
0.25000	-14.316920	-440.153702	-350.348311	-30.542168	-1505.534	-6.417906
0.50000	-14.316920	-408.827128	-350.348311	-25.140917	-1430.666	-6.417906
0.75000	-14.316920	-379.572151	-350.348311	-20.240867	-1355.798	-6.417906
1.00000	-14.316920	-353.323293	-350.348313	-16.896856	-1280.931	-6.417906

COMB DL-G1-1 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	13.916054	39.779810	86.333543	22.269517	866.082653	4.006169
0.25000	13.916054	40.167992	87.284380	18.562400	956.881733	4.006169
0.50000	13.916054	40.605574	88.339395	15.343573	1050.296	4.006169
0.75000	13.916054	41.077341	89.501389	12.927847	1145.147	4.006169
1.00000	13.916054	41.561555	90.774935	11.621031	1242.957	4.006169

COMB DL-G1-1 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-6.473060	-127.028553	-486.007907	-5.255766	-763.724659	-0.702699
0.25000	-6.473060	-126.498668	-484.676758	-5.260691	-764.336224	-0.702699
0.50000	-6.473060	-125.975113	-483.400002	-5.697325	-764.997735	-0.702699
0.75000	-6.473060	-125.475639	-482.181980	-7.436075	-765.641766	-0.702699
1.00000	-6.473060	-125.020367	-481.012806	-10.594248	-766.272780	-0.702699

COMB DL-G1-2 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	16.388129	102.831188	175.385092	25.287311	1749.670	3.830186
0.25000	16.388129	106.059673	182.170942	23.4704474	1896.513	3.830186
0.50000	16.388129	109.699590	189.686058	22.590480	2052.175	3.830186
0.75000	16.388129	113.621292	197.972900	22.944727	2222.786	3.830186
1.00000	16.388129	117.650141	207.052755	24.637041	2399.464	3.830186

COMB DL-G1-2 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-15.654639	-271.269526	-800.738246	-31.087575	-1354.530	-5.229587
0.25000	-15.654639	-266.863327	-791.232255	-26.653154	-1357.308	-5.229587
0.50000	-15.654639	-262.508218	-782.118579	-23.005512	-1360.076	-5.229587
0.75000	-15.654639	-258.356041	-773.417922	-20.809365	-1362.823	-5.229587
1.00000	-15.654639	-254.568589	-765.066127	-20.284879	-1365.582	-5.229587

COMB DL-G1-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	21.094399	182.967914	160.487620	40.642554	2603.374	4.806805
0.25000	21.094399	204.727431	155.777984	38.916068	2859.745	4.806805
0.50000	21.094399	229.280706	151.301508	38.497793	3086.850	4.806805
0.75000	21.094399	255.734821	147.054014	39.702667	3287.054	4.806805
1.00000	21.094399	282.898833	143.032874	42.572033	3455.436	4.806805

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1082

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-19.945119	-494.698160	-638.921604	-33.282973	-1832.112	-6.642795
0.25000	-19.945119	-465.003092	-642.869993	-29.157955	-1837.384	-6.642795
0.50000	-19.945119	-435.643396	-647.206280	-25.931318	-1842.462	-6.642795
0.75000	-19.945119	-407.660365	-651.947452	-24.051924	-1847.579	-6.642795
1.00000	-19.945119	-382.133464	-657.119665	-23.691540	-1852.658	-6.642795

COMB DL-G1-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	21.367872	187.573913	375.546622	48.378022	2814.335	5.886822
0.25000	21.367872	205.481842	372.373754	45.223979	3069.768	5.886822
0.50000	21.367872	225.687841	369.364016	43.292679	3310.737	5.886822
0.75000	21.367872	247.458161	366.513617	42.957828	3541.430	5.886822
1.00000	21.367872	269.812722	363.818324	44.236194	3750.481	5.886822

COMB DL-G1-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-18.481473	-500.592288	-587.558323	-32.302865	-1993.540	-6.243511
0.25000	-18.481473	-476.154677	-590.299626	-28.563193	-1999.794	-6.243511
0.50000	-18.481473	-451.993052	-593.303895	-25.635359	-2005.859	-6.243511
0.75000	-18.481473	-428.964330	-596.585917	-23.889828	-2011.780	-6.243511
1.00000	-18.481473	-407.955856	-600.165953	-23.459988	-2018.066	-6.243511

COMB DL-G2-1 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	5.536429	91.129368	89.862621	9.525077	1094.795	0.260870
0.25000	5.536429	103.307976	106.980775	11.292937	1192.405	0.260870
0.50000	5.536429	117.038806	125.960904	13.648947	1274.198	0.260870
0.75000	5.536429	131.835173	146.873084	16.406509	1344.139	0.260870
1.00000	5.536429	147.029568	169.798574	19.503508	1397.403	0.260870

COMB DL-G2-1 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-12.392006	-227.002004	-319.882524	-29.658746	-679.919034	-5.281324
0.25000	-12.392006	-210.386846	-295.880571	-24.850800	-682.458342	-5.281324
0.50000	-12.392006	-193.960435	-272.752921	-20.324250	-685.997699	-5.281324
0.75000	-12.392006	-178.300744	-250.604456	-15.979845	-687.512688	-5.281324
1.00000	-12.392006	-164.015568	-229.459239	-11.868660	-690.025366	-5.281324

COMB DL-G2-2 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	13.028206	179.776016	156.429562	34.599263	2155.211	2.950297
0.25000	13.028206	204.116626	156.429562	34.752545	2347.656	2.950297
0.50000	13.028206	231.572461	156.429562	35.919650	2508.071	2.950297
0.75000	13.028206	261.155780	156.429562	38.154072	2643.561	2.950297
1.00000	13.028206	291.529796	156.429562	41.161057	2745.078	2.950297

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1083

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-16.629941	-447.184265	-174.880095	-32.136710	-1325.259	-6.717362
0.25000	-16.629941	-413.977356	-174.880095	-27.789819	-1331.010	-6.717362
0.50000	-16.629941	-381.145412	-174.880095	-23.836076	-1336.506	-6.717362
0.75000	-16.629941	-349.852769	-174.880095	-20.148365	-1342.098	-6.717362
1.00000	-16.629941	-321.299197	-174.880095	-16.671050	-1347.639	-6.717362

COMB DL-G2-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	16.694672	192.188769	198.673392	39.303098	2664.747	3.602542
0.25000	16.694672	214.420463	198.672948	39.145976	2908.262	3.602542
0.50000	16.694672	239.491350	198.672833	39.928652	3126.941	3.602542
0.75000	16.694672	266.507145	198.672765	41.729012	3325.638	3.602542
1.00000	16.694672	294.245053	198.672849	44.443093	3492.786	3.602542

COMB DL-G2-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-18.437127	-503.453688	-511.468404	-39.304477	-1878.910	-7.372695
0.25000	-18.437127	-473.128548	-510.589874	-34.614179	-1874.648	-7.372695
0.50000	-18.437127	-443.145818	-509.684043	-30.251799	-1870.153	-7.372695
0.75000	-18.437127	-414.568784	-508.756843	-26.161864	-1826.167	-7.372695
1.00000	-18.437127	-388.491453	-507.815094	-22.481581	-1821.159	-7.372695

COMB DL-G2-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	15.868504	184.790761	438.267710	38.508373	2819.778	3.828534
0.25000	15.868504	203.586403	438.267710	37.716372	3080.724	3.828534
0.50000	15.868504	224.787598	438.267710	37.727240	3324.331	3.828534
0.75000	15.868504	247.631622	438.267710	38.673366	3553.362	3.828534
1.00000	15.868504	271.086216	438.267710	40.728479	3755.201	3.828534

COMB DL-G2-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-17.876397	-502.667927	-462.223760	-38.800215	-2054.988	-6.803567
0.25000	-17.876397	-477.025794	-462.223760	-34.433918	-2052.512	-6.803567
0.50000	-17.876397	-451.673206	-462.223760	-30.367267	-2049.838	-6.803567
0.75000	-17.876397	-427.509255	-462.223760	-26.631609	-2014.283	-6.803567
1.00000	-17.876397	-405.460394	-462.223760	-23.329821	-2011.193	-6.803567

COMB DL-G3-1 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	4.444973	39.984546	463.428538	6.771052	886.210216	1.494013
0.25000	4.444973	40.455859	461.797167	6.566989	977.865671	1.494013
0.50000	4.444973	40.990507	460.234173	6.579800	1072.426	1.494013
0.75000	4.444973	41.566062	458.739734	6.723437	1169.246	1.494013
1.00000	4.444973	42.157298	457.314919	6.946375	1267.898	1.494013

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1084

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-7.444788	-129.544669	-75.891078	-15.480941	-760.633589	-1.726841
0.25000	-7.444788	-128.898748	-77.081560	-14.513949	-760.289230	-1.726841
0.50000	-7.444788	-128.260278	-78.400687	-13.906700	-760.311797	-1.726841
0.75000	-7.444788	-127.651214	-79.850697	-13.669165	-760.525155	-1.726841
1.00000	-7.444788	-127.098785	-81.439300	-13.730694	-760.737809	-1.726841

COMB DL-G3-2 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	11.272682	104.481655	752.109853	29.659141	1762.752	4.351896
0.25000	11.272682	108.751903	739.784714	27.219257	1910.546	4.351896
0.50000	11.272682	113.591705	727.974035	25.360720	2065.561	4.351896
0.75000	11.272682	118.801000	716.685571	24.177361	2233.421	4.351896
1.00000	11.272682	124.154664	705.926999	23.477138	2404.064	4.351896

COMB DL-G3-2 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-10.765712	-276.680228	-163.849612	-19.569761	-1342.500	-2.902158
0.25000	-10.765712	-270.832546	-172.869862	-18.292605	-1341.345	-2.902158
0.50000	-10.765712	-265.051313	-182.846638	-17.214715	-1342.009	-2.902158
0.75000	-10.765712	-259.537152	-193.824805	-17.135564	-1342.680	-2.902158
1.00000	-10.765712	-254.531615	-205.841963	-17.371166	-1343.363	-2.902158

COMB DL-G3-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	15.008263	180.902786	580.010444	36.023102	2571.869	3.953852
0.25000	15.008263	202.924869	583.140942	35.411151	2824.542	3.953852
0.50000	15.008263	227.752875	586.644984	35.747484	3047.809	3.953852
0.75000	15.008263	254.506997	590.532356	37.101841	3243.812	3.953852
1.00000	15.008263	281.976387	594.814448	39.157036	3406.390	3.953852

COMB DL-G3-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-17.992869	-490.296561	-167.515034	-31.453844	-1781.039	-5.686784
0.25000	-17.992869	-460.265989	-162.424707	-28.512567	-1786.369	-5.686784
0.50000	-17.992869	-430.570963	-157.501895	-25.918651	-1791.422	-5.686784
0.75000	-17.992869	-402.269734	-152.761675	-24.249654	-1796.546	-5.686784
1.00000	-17.992869	-376.437887	-148.212055	-23.018882	-1801.527	-5.686784

COMB DL-G3-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	14.952455	186.245601	542.252529	35.055369	2809.269	3.595632
0.25000	14.952455	204.346683	544.265612	35.185696	3065.528	3.595632
0.50000	14.952455	224.755319	546.525532	36.241479	3307.101	3.595632
0.75000	14.952455	246.747215	549.038693	38.241812	3537.539	3.595632
1.00000	14.952455	269.327032	551.810823	40.968440	3744.854	3.595632

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1085

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-20.873021	-500.483969	-410.554088	-46.767088	-2047.224	-7.773334
0.25000	-20.873021	-475.799013	-407.143197	-41.291911	-2046.262	-7.773334
0.50000	-20.873021	-451.389862	-403.839729	-36.209203	-2032.447	-7.773334
0.75000	-20.873021	-428.126431	-400.652238	-31.956032	-2029.981	-7.773334
1.00000	-20.873021	-406.893980	-397.589418	-28.174350	-2029.638	-7.773334

COMB DB ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	14.784025	166.401714	710.567267	38.003399	2802.592	4.376345
0.25000	14.784025	198.309609	691.274967	35.875202	2980.269	4.376345
0.50000	14.784025	235.593274	677.103194	35.053329	3146.434	4.376345
0.75000	14.784025	276.278982	662.664415	36.370346	3313.950	4.376345
1.00000	14.784025	318.956458	647.837477	39.463522	3481.079	4.376345

COMB DB ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-15.641116	-493.400386	-744.169804	-35.986851	-1586.801	-6.518377
0.25000	-15.641116	-454.364675	-728.704425	-30.542168	-1511.780	-6.518377
0.50000	-15.641116	-416.686144	-717.279898	-25.140917	-1436.760	-6.518377
0.75000	-15.641116	-381.489351	-705.660615	-20.240867	-1361.741	-6.518377
1.00000	-15.641116	-353.465799	-693.757654	-16.896856	-1286.723	-6.518377

COMB DL ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	21.367872	192.188769	752.109853	48.378022	2819.778	5.886822
0.25000	21.367872	214.420463	739.784714	45.223979	3080.724	5.886822
0.50000	21.367872	239.491350	727.974035	43.292679	3324.331	5.886822
0.75000	21.367872	266.507145	716.685571	42.957828	3553.362	5.886822
1.00000	21.367872	294.245053	705.926999	44.443093	3755.201	5.886822

COMB DL ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-20.873021	-503.453688	-800.738246	-46.767088	-2054.988	-7.773334
0.25000	-20.873021	-477.025794	-791.232255	-41.291911	-2052.512	-7.773334
0.50000	-20.873021	-451.993052	-782.118579	-36.209203	-2049.838	-7.773334
0.75000	-20.873021	-428.964330	-773.417922	-31.956032	-2029.981	-7.773334
1.00000	-20.873021	-407.955856	-765.066127	-28.174350	-2029.638	-7.773334

COMB CAR ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	21.367872	192.188769	752.109853	48.378022	2819.778	5.886822
0.25000	21.367872	214.420463	739.784714	45.223979	3080.724	5.886822
0.50000	21.367872	239.491350	727.974035	43.292679	3324.331	5.886822
0.75000	21.367872	266.507145	716.685571	42.957828	3553.362	5.886822
1.00000	21.367872	294.245053	705.926999	44.443093	3755.201	5.886822

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1086

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-20.873021	-503.453688	-800.738246	-46.767088	-2054.988	-7.773334
0.25000	-20.873021	-477.025794	-791.232255	-41.291911	-2052.512	-7.773334
0.50000	-20.873021	-451.993052	-782.118579	-36.209203	-2049.838	-7.773334
0.75000	-20.873021	-428.964330	-773.417922	-31.956032	-2029.981	-7.773334
1.00000	-20.873021	-407.955856	-765.066127	-28.174350	-2029.638	-7.773334

COMB DESIGN ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	21.367872	192.188769	752.109853	48.378022	2819.778	5.886822
0.25000	21.367872	214.420463	739.784714	45.223979	3080.724	5.886822

```
 0.50000    21.367872   239.491350     5.886822
727.974035   43.292679    3324.331
 0.75000    21.367872   276.278982     5.886822
716.685571   42.957828    3553.362
 1.00000    21.367872   318.956458     5.886822
705.926999   44.443093    3755.201

 COMB  DESIGN  ------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -20.873021 -503.453688     -7.773334
-800.738246  -46.767088   -2054.988
 0.25000  -20.873021 -477.025794     -7.773334
-791.232255  -41.291911   -2052.512
 0.50000  -20.873021 -451.993052     -7.773334
-782.118579  -36.209203   -2049.838
 0.75000  -20.873021 -428.964330     -7.773334
-773.417922  -31.956032   -2029.981
 1.00000  -20.873021 -407.955856     -7.773334
-765.066127  -28.174350   -2029.638

 ELEM        78 ================== LENGTH
=     4.958178

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000    5.677087   25.799665     1.709469
68.153338    8.432070    1033.815
 0.25000    5.677087   26.330209     1.709469
69.426722    7.544519    1055.540
 0.50000    5.677087   26.933181     1.709469
70.713445    6.985602    1087.090
 0.75000    5.677087   27.590283     1.709469
72.015290    6.570087    1128.245
 1.00000    5.677087   28.282496     1.709469
73.791406    6.296174    1177.017

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   -5.602221  -70.043435     -1.489543
-293.756937  -6.902756  -486.490617
 0.25000   -5.602221  -69.346142     -1.489543
-291.976404  -5.940980  -457.444355
 0.50000   -5.602221  -68.675511     -1.489543
-290.668305  -5.638136  -428.398093
 0.75000   -5.602221  -68.053109     -1.489543
-289.369817  -5.970754  -399.351832
 1.00000   -5.602221  -67.499165     -1.489543
-288.072349  -6.804336  -370.311250

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000    8.795816   87.500549     2.119927
174.189855   20.816307    2142.068
 0.25000    8.795816   92.805796     2.119927
185.670740   20.004471    2169.972
 0.50000    8.795816   98.835328     2.119927
197.236837   19.842859    2217.136
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1087

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2         V3
        T         M2         M3
 0.75000    8.795816  105.405882     2.119927
208.957978   20.279712    2294.168
 1.00000    8.795816  112.325176     2.119927
224.947598   21.172839    2391.533

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -10.179717 -189.651233     -3.019247
-565.031509  -10.968905  -869.501278
 0.25000  -10.179717 -182.681112     -3.019247
-549.001058   -8.460318  -818.458516
 0.50000  -10.179717 -175.975251     -3.019247
-537.221043   -7.315962  -767.415753
 0.75000  -10.179717 -169.751373     -3.019247
-525.525283   -7.234757  -716.372991
 1.00000  -10.179717 -164.212070     -3.019247
-513.847734   -8.044044  -665.345294

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   14.171388  178.700231     3.672734
119.044249   38.944010    3178.450
 0.25000   14.171388  209.536857     3.672734
116.814826   37.432397    3300.313
 0.50000   14.171388  244.587820     3.672734
115.896452   37.170528    3459.423
 0.75000   14.171388  282.769023     3.672734
115.896452   38.186953    3459.707
 1.00000   14.171388  322.852098     3.672734
115.896452   40.233493    3504.988

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -15.089054 -428.547714     -4.797448
-402.502531  -12.899625   -1168.533
 0.25000  -15.089054 -388.167579     -4.797448
-404.295018  -10.660422   -1100.752
 0.50000  -15.089054 -349.198684     -4.797448
-406.036194   -9.802845   -1032.971
 0.75000  -15.089054 -313.015236     -4.797448
-407.747198   -9.513486   -965.189791
 1.00000  -15.089054 -280.815093     -4.797448
-410.174753   -9.983998   -897.423106

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   13.826924  182.834736     3.877350
282.463592   39.715836    3473.155
 0.25000   13.826924  208.194212     3.877350
282.463592   37.900033    3571.494
 0.50000   13.826924  237.017562     3.877350
282.463592   37.377752    3659.986
 0.75000   13.826924  268.415528     3.877350
282.463592   38.154514    3749.848
 1.00000   13.826924  301.377900     3.877350
282.463592   40.015371    3835.835

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -14.196415 -417.195579     -4.563830
-409.132458  -14.177671   -1286.705
 0.25000  -14.196415 -383.988934     -4.563830
-409.233568  -11.979035   -1212.087
 0.50000  -14.196415 -351.943253     -4.563830
-409.711060  -10.942973   -1137.469
 0.75000  -14.196415 -322.188662     -4.563830
-410.183073  -10.381015   -1062.851
 1.00000  -14.196415 -295.707964     -4.563830
-410.684423  -10.499851   -988.247357

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000    5.521254   99.108217     1.140962
113.006581   19.687636    1393.223
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1088

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2         V3
        T         M2         M3
 0.25000    5.521254  115.940460     1.140962
134.467295   19.598052    1442.424
 0.50000    5.521254  135.071010     1.140962
156.099439   20.109535    1475.085
 0.75000    5.521254  155.915002     1.140962
178.033250   21.312388    1499.922
 1.00000    5.521254  177.837717     1.140962
207.933533   23.059030    1512.843

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   -6.739527 -218.230120     -2.357818
-289.590055   -6.615289  -445.108213
 0.25000   -6.739527 -196.145790     -2.357818
-259.595058   -5.316193  -419.761099
 0.50000   -6.739527 -174.872554     -2.357818
-237.524783   -4.118925  -394.413985
 0.75000   -6.739527 -155.124487     -2.357818
-215.622413   -3.639752  -369.066873
 1.00000   -6.739527 -137.548997     -2.357818
-193.765683   -3.362312  -343.719785

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   11.316468  194.059617     3.179228
146.807327   40.396023    2709.453
 0.25000   11.316468  227.730612     3.179228
146.807327   39.162230    2803.758
 0.50000   11.316468  266.000073     3.179228
146.807327   39.269258    2874.847
 0.75000   11.316468  307.688105     3.179228
146.807327   40.871340    2920.741
 1.00000   11.316468  351.453398     3.179228
146.807327   43.665109    2940.985

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -12.148222 -429.605768     -4.256582
-154.803703  -10.280538  -859.440292
 0.25000  -12.148222 -385.516153     -4.256582
-154.803703   -8.880725  -810.598845
 0.50000  -12.148222 -342.968141     -4.256582
-154.803703   -7.524580  -761.757399
 0.75000  -12.148222 -303.462260     -4.256582
-154.803703   -6.811609  -712.915953
 1.00000  -12.148222 -268.302603     -4.256582
-154.803703   -6.300536  -664.077459

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   12.954292  197.032152     3.257993
183.142844   41.150166    3307.789
 0.25000   12.954292  227.675816     3.257993
183.142844   39.750526    3414.201
 0.50000   12.954292  262.502199     3.257993
183.142844   39.596968    3497.314
 0.75000   12.954292  300.440133     3.257993
183.142844   40.825025    3570.627
 1.00000   12.954292  340.268894     3.257993
183.142844   43.176740    3629.269

 COMB DB-G2-3 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -13.399779 -444.673095     -4.639520
-368.404420  -12.051110   -1159.959
 0.25000  -13.399779 -404.549200     -4.639520
-367.808032  -10.464213   -1093.205
 0.50000  -13.399779 -365.828682     -4.639520
-367.212830   -9.581243   -1026.451
 0.75000  -13.399779 -329.877152     -4.639520
-366.684748   -9.310742  -959.696931
 1.00000  -13.399779 -297.879096     -4.639520
-366.239268   -9.348160  -892.945632
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1089

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   12.371646  182.752201     3.095083
330.121951   37.287811    3480.954
 0.25000   12.371646  208.568189     3.095083
330.121951   35.840688    3583.406
 0.50000   12.371646  237.909775     3.095083
330.121951   35.461401    3673.595
 0.75000   12.371646  269.872468     3.095083
330.121951   36.248019    3761.374
 1.00000   12.371646  303.427821     3.095083
330.121951   38.022264    3843.918

 COMB DB-G2-4 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -12.861120 -418.894272     -4.204162
-344.626093  -14.051239   -1222.432
 0.25000  -12.861120 -385.090258     -4.204162
-344.626093  -12.253542   -1208.147
 0.50000  -12.861120 -352.468209     -4.204162
-344.626093  -11.042921   -1133.863
 0.75000  -12.861120 -322.178596     -4.204162
-344.626093  -10.344468   -1059.578
 1.00000  -12.861120 -295.221283     -4.204162
-344.626093   -9.902500  -985.294922

 COMB DB-G3-1 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000    4.234167   26.110012     1.496374
285.924555    6.811251    1069.028
 0.25000    4.234167   26.740752     1.496374
283.773475    6.152138    1091.465
 0.50000    4.234167   27.460929     1.496374
282.200306    5.719316    1123.685
 0.75000    4.234167   28.241251     1.496374
280.634550    5.450531    1165.807
 1.00000    4.234167   29.065556     1.496374
279.067609    5.331265    1216.593

 COMB DB-G3-1 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   -4.341318  -73.434766     -1.057478
-62.352994   -6.735782  -485.113715
 0.25000   -4.341318  -72.608190     -1.057478
-63.897703   -5.975390  -456.108059
 0.50000   -4.341318  -71.807791     -1.057478
-65.451015   -5.875265  -427.102403
 0.75000   -4.341318  -71.064286     -1.057478
-67.022888   -6.238838  -398.096747
 1.00000   -4.341318  -70.405448     -1.057478
-69.171220   -7.048193  -369.091094

 COMB DB-G3-2 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000    7.966728   91.972795     2.903807
549.408703   21.294958    2170.765
 0.25000    7.966728   98.722328     2.903807
529.496113   19.657658    2204.485

 0.50000    7.966728  106.424137     2.903807
514.933256   18.784819    2254.150
 0.75000    7.966728  114.810985     2.903807
500.444111   18.669569    2328.634
 1.00000    7.966728  123.589568     2.903807
485.932782   19.129660    2421.410

 COMB DB-G3-2 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   -7.753662 -201.023653     -2.096557
-170.883640  -10.431943  -854.434729
 0.25000   -7.753662 -192.179466     -2.096557
-185.189011   -9.249148  -804.342231
 0.50000   -7.753662 -183.619317     -2.096557
-199.570040   -8.071025  -754.249733
 0.75000   -7.753662 -175.668115     -2.096557
-214.122518   -7.307826  -704.157236
 1.00000   -7.753662 -168.618214     -2.096557
-234.014464   -8.036994  -654.068331
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1090

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   13.120708  180.402758     3.950321
373.773238   38.144534    3183.568
 0.25000   13.120708  211.513109     3.950321
373.773238   36.336308    3306.072
 0.50000   13.120708  246.868869     3.950321
373.773238   35.795707    3397.503
 0.75000   13.120708  285.383854     3.950321
374.039805   36.602503    3465.010
 1.00000   13.120708  325.818724     3.950321
375.399303   38.480454    3509.923

 COMB DB-G3-3 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -13.012142 -431.147071     -4.042431
-125.609751  -13.454429   -1150.869
 0.25000  -13.012142 -390.412587     -4.042431
-124.186741  -12.037403   -1084.134
 0.50000  -13.012142 -351.103140     -4.042431
-122.983223  -10.637982   -1017.400
 0.75000  -13.012142 -314.605153     -4.042431
-121.851459   -9.451659  -950.665154
 1.00000  -13.012142 -282.119542     -4.042431
-120.803558   -9.819652  -883.933134

 COMB DB-G3-4 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   12.770733  182.489984     3.559423
382.455288   38.002413    3472.240
 0.25000   12.770733  207.966647     3.559423
382.455288   36.532834    3572.088
 0.50000   12.770733  236.922375     3.559423
382.455288   36.270582    3661.222
 0.75000   12.770733  268.464771     3.559423
382.455288   37.356708    3750.678
 1.00000   12.770733  301.578948     3.559423
382.455288   39.412053    3836.021

 COMB DB-G3-4 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -13.832908 -417.537855     -4.473481
-293.548125  -16.375784   -1280.930
 0.25000  -13.832908 -384.178288     -4.473481
-293.548125  -13.977929   -1206.588
 0.50000  -13.832908 -351.985212     -4.473481
-293.548125  -11.621472   -1132.246
 0.75000  -13.832908 -322.093879     -4.473481
-293.548125  -10.534018   -1057.904
 1.00000  -13.832908 -295.490959     -4.473481
-293.548126  -11.000357   -983.563614

 COMB DL-G1-1 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   13.766286   47.457320     2.504955
103.992778   11.846158    1244.493
 0.25000   13.766286   47.866882     2.504955
105.038265   10.820191    1290.660
 0.50000   13.766286   48.323960     2.504955
106.168126   10.355258    1338.653
 0.75000   13.766286   48.823390     2.504955
107.381816   10.338892    1388.772
 1.00000   13.766286   49.327927     2.504955
108.678885   10.658137    1440.575

 COMB DL-G1-1 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   -6.255993  -97.486102     -1.362098
-338.985969  -10.484778  -766.609800
 0.25000   -6.255993  -96.957598     -1.362098
-337.618835  -10.573336   -1122.360429
 0.50000   -6.255993  -96.434151     -1.362098
-336.335898  -11.261543  -768.101561
 0.75000   -6.255993  -95.938746     -1.362098
-335.137352  -12.998411  -768.841187
 1.00000   -6.255993  -95.491930     -1.362098
-334.023266  -15.350324  -769.583383
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1091

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   16.073283  122.051752     2.912600
222.088443   24.767108    2401.678
 0.25000   16.073283  125.458063     2.912600
229.555139   24.823884    2471.278
 0.50000   16.073283  129.301161     2.912600
237.609919   25.562508    2549.653
 0.75000   16.073283  133.413280     2.912600
246.269947   26.977301    2642.710
 1.00000   16.073283  137.609457     2.912600
255.530704   29.116228    2742.944

 COMB DL-G1-2 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -15.378316 -220.817326     -3.615398
-595.688794  -19.632017   -1366.071
 0.25000  -15.378316 -216.422044     -3.615398
-585.925474  -18.460713   -1369.154
 0.50000  -15.378316 -212.068563     -3.615398
-576.780335  -17.905989   -1372.224
 0.75000  -15.378316 -207.948407     -3.615398
-568.208530  -18.615814   -1375.291
 1.00000  -15.378316 -204.232346     -3.615398
-560.248298  -20.333031   -1378.377

 COMB DL-G1-3 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   20.523180  209.746284     4.304829
196.465813   43.847207    3457.213
 0.25000   20.523180  232.718591     4.304829
191.584081   43.469682    3613.789

 0.50000   20.523180  258.637247     4.304829
187.021778   44.092682    3741.087
 0.75000   20.523180  286.375367     4.304829
182.776415   45.798072    3841.008
 1.00000   20.523180  314.684189     4.304829
178.842001   48.493850    3909.623

 COMB DL-G1-3 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -19.399474 -427.838847     -5.064349
-465.151189  -23.467708   -1853.031
 0.25000  -19.399474 -398.184886     -5.064349
-469.191389  -22.489626   -1858.819
 0.50000  -19.399474 -368.843218     -5.064349
-473.548331  -22.103142   -1864.615
 0.75000  -19.399474 -341.055926     -5.064349
-478.232143  -22.769215   -1870.351
 1.00000  -19.399474 -315.973402     -5.064349
-483.241468  -24.297330   -1876.147

 COMB DL-G1-4 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   20.879296  219.096831     4.703393
346.799672   47.434647    3751.208
 0.25000   20.879296  238.002833     4.703393
343.504197   46.379689    3896.795
 0.50000   20.879296  259.332437     4.703393
340.427945   46.281755    4026.817
 0.75000   20.879296  282.159379     4.703393
337.566841   47.405565    4146.927
 1.00000   20.879296  305.456478     4.703393
334.918086   49.524913    4247.024

 COMB DL-G1-4 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -17.961241 -427.969394     -4.849554
-469.483263  -24.751805   -2018.181
 0.25000  -17.961241 -403.565793     -4.849554
-472.256706  -23.850766   -2024.626
 0.50000  -17.961241 -379.419227     -4.849554
-475.243275  -23.467896   -2031.067
 0.75000  -17.961241 -356.550883     -4.849554
-478.445431  -24.032834   -2037.465
 1.00000  -17.961241 -335.909108     -4.849554
-481.881626  -25.431834   -2043.918
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1092

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000    5.255834  102.999667     1.019337
112.975337   19.987264    1397.869
 0.25000    5.255834  115.851008     1.019337
131.854487   20.640437    1460.611
 0.50000    5.255834  130.344655     1.019337
152.254971   21.668640    1507.784
 0.75000    5.255834  145.857290     1.019337
174.159769   23.228675    1542.515
 1.00000    5.255834  161.690414     1.019337
197.565347   25.378095    1560.429

 COMB DL-G2-1 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -12.209249 -202.944881     -2.960568
-276.923935  -11.679080  -690.120593
 0.25000  -12.209249 -186.358863     -2.960568
-252.252104  -10.160958  -693.148040
 0.50000  -12.209249 -169.946932     -2.960568
-229.029722   -8.757959  -696.198078
 0.75000  -12.209249 -154.404353     -2.960568
-207.314383   -7.736617  -699.217561
 1.00000  -12.209249 -140.385759     -2.960568
-187.108619   -7.116661  -702.264815

 COMB DL-G2-2 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   12.535823  202.674233     3.208293
147.865044   43.364878    2745.012
 0.25000   12.535823  228.368811     3.208293
147.865044   42.998732    2869.737
 0.50000   12.535823  257.349175     3.208293
147.865044   43.407959    2962.609
 0.75000   12.535823  288.366281     3.208293
147.865044   44.881852    3029.683
 1.00000   12.535823  320.024432     3.208293
147.865044   47.345630    3062.356

 COMB DL-G2-2 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -16.178972 -400.478710     -4.532644
-157.347298  -17.332947   -1347.586
 0.25000  -16.178972 -367.318905     -4.532644
-157.347298  -16.184704   -1350.797
 0.50000  -16.178972 -334.506988     -4.532644
-157.347298  -14.980504   -1360.012
 0.75000  -16.178972 -303.433388     -4.532644
-157.347298  -14.280615   -1366.191
 1.00000  -16.178972 -275.386684     -4.532644
-157.347298  -14.024216   -1372.393

 COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   16.190206  222.301946     3.605500
215.693347   46.184067    3010.802
 0.25000   16.190206  245.768013     3.605500
215.751154   46.129407    3640.384
 0.50000   16.190206  272.233094     3.605500
215.847980   46.895147    3761.576
 0.75000   16.190206  300.558158     3.605500
216.098648   48.703879    3863.069
 1.00000   16.190206  329.469655     3.605500
216.654280   51.439784    3934.834

 COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000  -17.957990 -439.204414     -5.009097
-397.241456  -22.246713   -1821.359
 0.25000  -17.957990 -408.920786     -5.009097
-396.279743  -21.115067   -1828.137
 0.50000  -17.957990 -378.956496     -5.009097
-395.357681  -20.495662   -1834.918
 0.75000  -17.957990 -350.579776     -5.009097
-394.479600  -20.457148   -1841.673
 1.00000  -17.957990 -324.965705     -5.009097
-393.649624  -20.866210   -1848.435
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1093

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2         V3
        T         M2         M3
 0.00000   15.381903  217.796660     3.585665
375.399083   44.547363    3755.102
 0.25000   15.381903  237.637826     3.585665
375.399083   44.154733    3905.492
```

```
 0.50000     15.381903    260.016252      3.585665
375.399083     44.479807     4037.617
 0.75000     15.381903    283.967435      3.585665
375.399083     45.685767     4156.222
 1.00000     15.381903    308.413629      3.585665
375.399083     47.660650     4250.993

  COMB DL-G2-4 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -17.416479   -430.729886     -4.688757
-389.972935    -24.923551     -2011.132
 0.25000   -17.416479   -405.124126     -4.688757
-389.972935    -23.603409     -2017.749
 0.50000   -17.416479   -379.787002     -4.688757
-389.972935    -22.717357     -2024.383
 0.75000   -17.416479   -355.792195     -4.688757
-389.972935    -22.311741     -2030.975
 1.00000   -17.416479   -334.134734     -4.688757
-389.972935    -22.275246     -2037.576

  COMB DL-G3-1 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000     4.247395     48.593002      1.465960
324.826294     9.648581     1266.289
 0.25000     4.247395     49.090679      1.465960
323.147728     9.067434     1312.272
 0.50000     4.247395     49.654758      1.465960
321.575299     8.718917     1360.909
 0.75000     4.247395     50.258526      1.465960
320.105891     8.608062     1411.833
 1.00000     4.247395     50.874751      1.465960
318.741615     8.709334     1465.213

  COMB DL-G3-1 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    -7.269058    -99.643834     -1.664971
-96.228526    -13.882899    -760.378389
 0.25000    -7.269058    -98.998378     -1.664971
-97.525195    -12.742193    -760.860543
 0.50000    -7.269058    -98.360017     -1.664971
-98.925407    -11.932897    -761.351956
 0.75000    -7.269058    -97.755039     -1.664971
-100.428482    -11.682263    -761.696877
 1.00000    -7.269058    -97.211607     -1.664971
-102.035666    -11.882953    -762.443629

  COMB DL-G3-2 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    10.987837    123.879782      3.368378
566.588665     28.042705     2401.786
 0.25000    10.987837    128.388695      3.368378
553.909142     26.401664     2473.655
 0.50000    10.987837    133.495227      3.368378
542.025449     25.259687     2552.543
 0.75000    10.987837    138.961103      3.368378
530.924214     24.831954     2643.794
 1.00000    10.987837    144.539261      3.368378
520.619194     25.098891     2739.755

  COMB DL-G3-2 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -10.434357   -226.903426     -2.794492
-210.976923    -18.607136     -1342.825
 0.25000   -10.434357   -221.060500     -2.794492
-220.785040    -17.631120     -1337.615
 0.50000   -10.434357   -215.280007     -2.794492
-231.372622    -16.922847     -1340.926
 0.75000   -10.434357   -209.806743     -2.794492
-242.745885    -16.982102     -1344.233
 1.00000   -10.434357   -204.881636     -2.794492
-254.897970    -17.693308     -1347.562
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1094

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-3 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    14.449922    207.567816      4.049738
426.079795     43.968153     3404.501
 0.25000    14.449922    230.814071      4.049738
429.784551     42.766142     3559.657
 0.50000    14.449922    257.021563      4.049738
433.793897     42.388240     3685.243
 0.75000    14.449922    285.071980      4.049738
438.094881     43.057087     3782.950
 1.00000    14.449922    313.703161      4.049738
442.686539     44.594953     3848.426

  COMB DL-G3-3 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -17.436991   -424.731969     -4.667573
-196.000408    -24.223345     -1801.062
 0.25000   -17.436991   -394.742420     -4.667573
-190.811743    -22.731317     -1806.823
 0.50000   -17.436991   -365.068431     -4.667573
-185.925180    -21.590477     -1812.566
 0.75000   -17.436991   -336.966624     -4.667573
-181.341916    -21.141942     -1818.301
 1.00000   -17.436991   -311.594506     -4.667573
-177.067430    -21.211221     -1824.066

  COMB DL-G3-4 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    14.423156    218.092841      3.729525
441.466304     44.967120     3744.041
 0.25000    14.423156    237.199785      3.729525
443.900927     44.547045     3890.589
 0.50000    14.423156    258.743165      3.729525
446.534890     44.908912     4021.107
 0.75000    14.423156    281.800671      3.729525
449.360037     46.390097     4140.891
 1.00000    14.423156    305.334794      3.729525
452.375066     48.791550     4239.874

  COMB DL-G3-4 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -20.414880   -427.845471     -5.381868
-366.441781    -28.740327     -2029.399
 0.25000   -20.414880   -403.193636     -5.381868
-362.973956    -26.553476     -2029.551
 0.50000   -20.414880   -378.802058     -5.381868
-359.702595    -24.628785     -2029.704
 0.75000   -20.414880   -355.702354     -5.381868
-356.634122    -23.816604     -2029.827
 1.00000   -20.414880   -334.847160     -5.381868
-353.769061    -23.804473     -2031.882

  COMB       DB -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    14.171388    197.032452      3.950321
549.408703     41.150166     3480.954
 0.25000    14.171388    227.730612      3.950321
529.496113     39.750526     3583.406
 0.50000    14.171388    266.000073      3.950321
514.933256     39.596968     3673.595
 0.75000    14.171388    307.688105      3.950321
500.444111     40.871340     3761.374
 1.00000    14.171388    351.453398      3.950321
485.932782     43.665109     3843.918

  COMB       DB -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -15.089054   -444.673095     -4.797448
-565.031509    -16.375784     -1286.705
 0.25000   -15.089054   -404.549200     -4.797448
-549.001058    -13.977929     -1212.087
 0.50000   -15.089054   -365.828682     -4.797448
-537.221043    -11.621472     -1137.469
 0.75000   -15.089054   -329.877152     -4.797448
-525.525283    -10.534018     -1062.851
 1.00000   -15.089054   -297.879096     -4.797448
-513.847734    -11.000357     -988.247357
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1095

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB       DL -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    20.879296    222.301946      4.703393
566.588665     47.434647     3755.102
 0.25000    20.879296    245.768013      4.703393
553.909142     46.379689     3905.492
 0.50000    20.879296    272.233094      4.703393
542.025449     46.895147     4037.617
 0.75000    20.879296    300.558158      4.703393
530.924214     48.703879     4156.222
 1.00000    20.879296    329.468655      4.703393
520.619194     51.439784     4250.993

  COMB       DL -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -20.414880   -439.204244     -5.381868
-595.688794    -28.740327     -2029.399
 0.25000   -20.414880   -408.920786     -5.381868
-585.925474    -26.553476     -2029.551
 0.50000   -20.414880   -379.787002     -5.381868
-576.780335    -24.628785     -2031.067
 0.75000   -20.414880   -356.550883     -5.381868
-568.208530    -24.032834     -2037.465
 1.00000   -20.414880   -335.909108     -5.381868
-560.248298    -25.431834     -2043.918

  COMB       CAR -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    20.879296    222.301946      4.703393
566.588665     47.434647     3755.102
 0.25000    20.879296    245.768013      4.703393
553.909142     46.379689     3905.492
 0.50000    20.879296    272.233094      4.703393
542.025449     46.895147     4037.617
 0.75000    20.879296    307.688105      4.703393
530.924214     48.703879     4156.222
 1.00000    20.879296    351.453398      4.703393
520.619194     51.439784     4250.993

  COMB       CAR -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -20.414880   -444.673095     -5.381868
-595.688794    -28.740327     -2029.399
 0.25000   -20.414880   -408.920786     -5.381868
-585.925474    -26.553476     -2029.551
 0.50000   -20.414880   -379.787002     -5.381868
-576.780335    -24.628785     -2031.067
 0.75000   -20.414880   -356.550883     -5.381868
-568.208530    -24.032834     -2037.465
 1.00000   -20.414880   -335.909108     -5.381868
-560.248298    -25.431834     -2043.918

  COMB  DESIGN -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    20.879296    222.301946      4.703393
566.588665     47.434647     3755.102
 0.25000    20.879296    245.768013      4.703393
553.909142     46.379689     3905.492
 0.50000    20.879296    272.233094      4.703393
542.025449     46.895147     4037.617
 0.75000    20.879296    307.688105      4.703393
530.924214     48.703879     4156.222
 1.00000    20.879296    351.453398      4.703393
520.619194     51.439784     4250.993

  COMB  DESIGN -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -20.414880   -444.673095     -5.381868
-595.688794    -28.740327     -2029.399
 0.25000   -20.414880   -408.920786     -5.381868
-585.925474    -26.553476     -2029.551
 0.50000   -20.414880   -379.787002     -5.381868
-576.780335    -24.628785     -2031.067
 0.75000   -20.414880   -356.550883     -5.381868
-568.208530    -24.032834     -2037.465
 1.00000   -20.414880   -335.909108     -5.381868
-560.248298    -25.431834     -2043.918
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1096

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       79 ================== LENGTH
=     4.957033

  COMB DB-G1-1 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000     5.483567     45.527725      1.249035
161.465121     6.114838     1177.452
 0.25000     5.483567     46.076275      1.249035
162.756940     5.523390     1164.249
 0.50000     5.483567     46.697267      1.249035
164.050814     5.179683     1150.105
 0.75000     5.483567     47.371174      1.249035
165.354630     6.000364     1165.350
 1.00000     5.483567     48.077210      1.249035
167.128687     7.577744     1179.709

  COMB DB-G1-1 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    -5.396600    -48.709320     -2.098302
-169.191638    -8.369977    -370.221181
 0.25000    -5.396600    -48.003142     -2.098302
-167.417365    -6.916638    -341.663221
 0.50000    -5.396600    -47.329122     -2.098302
-166.113176    -6.002488    -326.433874
 0.75000    -5.396600    -46.707930     -2.098302
-164.819006    -5.797447    -356.430991
 1.00000    -5.396600    -46.159096     -2.098302
-163.526949    -6.120173    -386.428108

  COMB DB-G1-2 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000     8.454536    124.330928      2.116499
330.111666     20.692288     2392.225
 0.25000     8.454536    129.816368      2.116499
341.742335     19.640009     2359.416
 0.50000     8.454536    136.026272      2.116499
353.392565     19.163261     2343.815
 0.75000     8.454536    142.765006      2.116499
365.133578     20.554797     2361.360
 1.00000     8.454536    149.822688      2.116499
381.105885     23.108351     2396.240

  COMB DB-G1-2 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    -9.936339   -151.001832     -3.357159
-384.173522    -8.926913    -665.224627
 0.25000    -9.936339   -143.942811     -3.357159
-368.199093    -8.059980    -614.280808
 0.50000    -9.936339   -137.202905     -3.357159
-356.454427    -8.441628    -587.242508
 0.75000    -9.936339   -130.999081     -3.357159
-344.801317    -8.824984    -640.807758
 1.00000    -9.936339   -125.502639     -3.357159
-333.168362    -9.210270    -694.373007

  COMB DB-G1-3 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    13.581367    226.260055      3.841209
252.425389     40.226838     3505.480
 0.25000    13.581367    258.152609      3.841209
250.085786     38.274715     3548.156
 0.50000    13.581367    294.260300      3.841209
248.503807     37.493482     3596.235
 0.75000    13.581367    333.426913      3.841209
246.876489     39.137115     3550.622
 1.00000    13.581367    374.322928      3.841209
245.180753     42.492854     3510.807

  COMB DB-G1-3 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -14.564390   -376.009253     -4.974176
-247.972165    -10.713956    -897.323008
 0.25000   -14.564390   -335.109472     -4.974176
-249.676725    -10.347640    -828.953118
 0.50000   -14.564390   -295.933795     -4.974176
-251.316369    -10.869000    -792.806934
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1097

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P             V2             V3
        T          M2             M3
 0.75000   -14.564390   -259.812014     -4.974176
-252.914868    -11.391644    -864.748460
 1.00000   -14.564390   -227.900587     -4.974176
-255.263418    -11.915839    -936.689987

  COMB DB-G1-4 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    13.355258    235.623116      3.827198
333.801584     41.061763     3836.027
 0.25000    13.355258    261.850805      3.827198
333.801584     38.993093     3847.834
 0.50000    13.355258    291.543031      3.827198
333.801584     38.073291     3843.814
 0.75000    13.355258    323.751227      3.827198
333.801584     39.352105     3850.625
 1.00000    13.355258    357.382004      3.827198
333.801584     42.225898     3841.954

  COMB DB-G1-4 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -13.682546   -359.237038     -4.707836
-335.126215    -11.934298    -988.211561
 0.25000   -13.682546   -325.603147     -4.707836
-335.126215    -11.320168    -912.945851
 0.50000   -13.682546   -293.387506     -4.707836
-335.126215    -11.823834    -873.082634
 0.75000   -13.682546   -263.683721     -4.707836
-335.126215    -12.389083    -952.311996
 1.00000   -13.682546   -237.440474     -4.707836
-335.362640    -12.957220    -1031.541

  COMB DB-G2-1 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000     5.253143    116.288842      1.775327
152.706647     22.825088     1513.109
 0.25000     5.253143    133.694680      1.775327
174.471467     21.989469     1533.949
 0.50000     5.253143    153.399267      1.775327
196.289017     21.808740     1536.230
 0.75000     5.253143    174.778552      1.775327
218.281453     22.285404     1534.867
 1.00000     5.253143    197.142194      1.775327
248.169093     23.676461     1515.099

  COMB DB-G2-1 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    -6.567446   -197.818877     -2.078156
-248.963535    -3.378802    -343.701658
 0.25000    -6.567446   -175.451874     -2.078156
-219.069364    -3.594092    -317.711991
 0.50000    -6.567446   -154.068374     -2.078156
-197.066532    -3.813303    -304.036580
 0.75000    -6.567446   -134.356827     -2.078156
-175.240742    -4.033028    -331.412016
 1.00000    -6.567446   -116.941362     -2.078156
-153.469608    -4.253062    -358.787453

  COMB DB-G2-2 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    10.874204    227.134652      3.741602
148.187464     44.218754     2940.959
 0.25000    10.874204    261.958358      3.741602
148.187464     42.269930     2986.456
 0.50000    10.874204    301.381411      3.741602
148.187464     41.667466     2992.768
 0.75000    10.874204    344.145170      3.741602
148.187464     42.587666     2988.225
 1.00000    10.874204    388.797885      3.741602
148.187464     44.805479     2944.876

  COMB DB-G2-2 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -11.717164   -390.134620     -3.918318
-148.196043    -6.739317    -664.084015
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1098

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P             V2             V3
        T          M2             M3
 0.25000   -11.717164   -345.477764     -3.918318
-148.196043    -7.002366    -613.920972
 0.50000   -11.717164   -302.704123     -3.918318
-148.196043    -7.396054    -587.552781
 0.75000   -11.717164   -263.265732     -3.918318
-148.196043    -7.791604    -640.410150
 1.00000   -11.717164   -228.421356     -3.918318
-148.196043    -8.188095    -693.267519

  COMB DB-G2-3 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    12.469968    243.392206      3.666817
268.128306     43.632637     3629.559
 0.25000    12.469968    275.084466      3.666817
268.576730     41.729589     3659.313
 0.50000    12.469968    310.960550      3.666817
269.091286     41.009727     3660.696
 0.75000    12.469968    349.877327      3.666817
269.661111     42.364247     3661.801
 1.00000    12.469968    390.513569      3.666817
270.269479     45.232453     3634.881

  COMB DB-G2-3 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -12.915039   -392.223584     -4.341624
-272.229331    -9.545843    -892.890613
 0.25000   -12.915039   -351.583556     -4.341624
-271.612015    -9.951334    -825.086495
 0.50000   -12.915039   -312.657793     -4.341624
-271.025645    -10.474823    -789.314880
 0.75000   -12.915039   -276.767779     -4.341624
-270.498700    -10.999978    -860.703638
 1.00000   -12.915039   -245.056669     -4.341624
-270.041367    -11.525931    -932.092397

  COMB DB-G2-4 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    11.884247    235.190308      3.525542
330.155107     39.394513     3843.884
 0.25000    11.884247    261.890043      3.525542
330.155107     37.318124     3859.666
 0.50000    11.884247    292.116151      3.525542
330.155107     36.274880     3857.235
 0.75000    11.884247    324.903616      3.525542
330.155107     37.334414     3862.474
 1.00000    11.884247    359.139365      3.525542
330.155107     39.750866     3849.781

  COMB DB-G2-4 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -12.381899   -360.997411     -3.930776
-330.551340    -11.152411    -985.314807
 0.25000   -12.381899   -326.758487     -3.930776
-330.551340    -11.044346    -910.317261
 0.50000   -12.381899   -293.983445     -3.930776
-330.551340    -11.487531    -870.543967
 0.75000   -12.381899   -263.725578     -3.930776
-330.551340    -12.071511    -949.516201
 1.00000   -12.381899   -237.009994     -3.930776
-330.551340    -12.657792    -1028.488

  COMB DB-G3-1 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000     4.038009     47.811503      1.661512
168.696054     6.703168     1216.136
 0.25000     4.038009     48.464135      1.661512
166.553342     5.533597     1202.072
 0.50000     4.038009     49.206207      1.661512
164.984529     4.795156     1196.865
 0.75000     4.038009     50.010814      1.661512
163.424568     4.828799     1203.175
 1.00000     4.038009     50.848140      1.661512
161.864450     5.184251     1218.413
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1099

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G3-1 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    -4.151112    -51.514698     -1.020676
-160.435744    -4.996295    -369.206709
 0.25000    -4.151112    -50.677386     -1.020676
-161.995940    -4.594250    -340.765632
 0.50000    -4.151112    -49.872542     -1.020676
-163.556049    -4.728926    -325.347940
 0.75000    -4.151112    -49.130110     -1.020676
-165.125118    -5.404879    -355.297746
 1.00000    -4.151112    -48.477181     -1.020676
-167.268001    -6.552490    -385.247551

  COMB DB-G3-2 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000     7.707953    128.529912      2.935523
386.724789     21.405228     2420.683
 0.25000     7.707953    135.513273      2.935523
366.889975     19.451450     2393.076
 0.50000     7.707953    143.448965      2.935523
352.367465     18.209648     2379.738
 0.75000     7.707953    152.053906      2.935523
337.925870     18.417704     2395.006
 1.00000     7.707953    161.012838      2.935523
323.483667     19.366643     2424.720

  COMB DB-G3-2 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    -7.409651   -162.239956     -2.085441
-321.539827    -8.261587    -654.219152
 0.25000    -7.409651   -153.281034     -2.085441
-335.994403    -7.385508    -604.215765
 0.50000    -7.409651   -144.673630     -2.085441
-350.426331    -7.459412    -577.431050
 0.75000    -7.409651   -136.734391     -2.085441
-364.949049    -7.851773    -630.107415
 1.00000    -7.409651   -129.747527     -2.085441
-384.788437    -8.247269    -682.783779

  COMB DB-G3-3 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    12.589705    227.615282      4.440911
241.439549     40.580990     3509.394
 0.25000    12.589705    259.790399      4.440911
242.480861     37.945614     3552.406
 0.50000    12.589705    296.211743      4.440911
243.596761     36.576260     3560.959
 0.75000    12.589705    335.720380      4.440911
244.772754     37.238538     3554.850
 1.00000    12.589705    376.974937      4.440911
246.204882     39.205785     3514.681

  COMB DB-G3-3 -------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -12.431345   -378.684345     -3.832115
-244.896736    -10.237213    -884.063718
 0.25000   -12.431345   -337.426083     -3.832115
-243.455506    -9.665638    -816.776731
 0.50000   -12.431345   -297.908330     -3.832115
-242.262681    -9.919788    -780.961215
 0.75000   -12.431345   -261.472862     -3.832115
-241.134163    -10.461196    -851.851172
 1.00000   -12.431345   -229.278581     -3.832115
-240.076768    -11.005065    -922.741129

  COMB DB-G3-4 -------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    12.255075    235.314182      4.134796
330.548324     40.717217     3835.793
 0.25000    12.255075    261.663002      4.134796
330.548324     38.449001     3848.281
 0.50000    12.255075    291.491554      4.134796
330.548324     37.450686     3844.932
 0.75000    12.255075    323.847859      4.134796
330.548324     38.375619     3851.064
 1.00000    12.255075    357.633469      4.134796
330.548324     40.632016     3841.711
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.378337	-359.500295	-3.863072
-330.153484	-11.236095	-983.632984	
0.25000	-13.378337	-325.711550	-3.863072
-330.153484	-10.912937	-908.719857	
0.50000	-13.378337	-293.347769	-3.863072
-330.153484	-11.275720	-868.899687	
0.75000	-13.378337	-263.507616	-3.863072
-330.153484	-11.878000	-947.795469	
1.00000	-13.378337	-237.143150	-3.863072
-330.153484	-12.482504	-1026.691	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.633701	68.304789	1.571134
200.141773	9.676243	1441.218	
0.25000	13.633701	68.736444	1.571134
201.219212	9.632400	1442.898	
0.50000	13.633701	69.219169	1.571134
202.379467	9.892628	1445.904	
0.75000	13.633701	69.731983	1.571134
203.625044	10.882615	1450.868	
1.00000	13.633701	70.253746	1.571134
204.953270	12.331490	1457.111	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.053751	-72.437784	-1.895644
-206.670719	-14.614417	-769.798129	
0.25000	-6.053751	-71.915963	-1.895644
-205.342010	-13.975965	-771.583947	
0.50000	-6.053751	-71.402587	-1.895644
-204.096487	-13.797882	-773.369785	
0.75000	-6.053751	-70.919404	-1.895644
-202.934892	-14.572104	-775.159082	
1.00000	-6.053751	-70.486792	-1.895644
-201.856715	-15.850393	-776.941047	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.784745	157.376984	2.613942
371.447112	27.468268	2743.815	
0.25000	15.784745	160.967083	2.613942
379.138276	27.567567	2756.281	
0.50000	15.784745	164.982168	2.613942
387.420599	28.148590	2736.193	
0.75000	15.784745	169.246931	2.613942
396.312114	29.781184	2750.473	
1.00000	15.784745	173.586672	2.613942
405.793423	32.086201	2772.227	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.124937	-177.450244	-3.147222
-408.172627	-19.176315	-1378.683	
0.25000	-15.124937	-173.110258	-3.147222
-398.686898	-18.740420	-1381.954	
0.50000	-15.124937	-168.840585	-3.147222
-389.796686	-19.143021	-1385.211	
0.75000	-15.124937	-164.821892	-3.147222
-381.503393	-20.240529	-1388.482	
1.00000	-15.124937	-161.223901	-3.147222
-373.806908	-21.615899	-1391.748	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.985878	254.601882	4.083531
322.714223	47.593891	3910.329	
0.25000	19.985878	278.815908	4.083531
317.805010	47.146674	3965.513	
0.50000	19.985878	305.891557	4.083531
313.216086	47.544294	3989.337	
0.75000	19.985878	334.668277	4.083531
308.943283	49.389202	3984.884	
1.00000	19.985878	363.935584	4.083531
304.982617	52.242378	3949.048	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.885738	-369.251705	-4.611282
-307.251997	-23.388491	-1876.393	
0.25000	-18.885738	-339.975707	-4.611282
-311.220523	-23.286618	-1880.889	
0.50000	-18.885738	-311.175733	-4.611282
-315.503325	-23.782060	-1885.344	
0.75000	-18.885738	-284.064321	-4.611282
-320.101443	-24.914725	-1889.798	
1.00000	-18.885738	-259.800589	-4.611282
-325.021632	-26.285459	-1894.366	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.425574	268.645309	4.120410
397.103426	50.947527	4247.312	
0.25000	20.425574	288.573132	4.120410
393.766601	49.541287	4281.338	
0.50000	20.425574	310.853983	4.120410
390.649044	49.542685	4297.707	
0.75000	20.425574	334.536538	4.120410
387.748508	51.003090	4302.417	
1.00000	20.425574	358.621955	4.120410
385.061020	53.377554	4289.408	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.474741	-364.378449	-4.538250
-386.651747	-25.955480	-2044.016	
0.25000	-17.474741	-340.285918	-4.538250
-389.345024	-25.502991	-2048.920	
0.50000	-17.474741	-316.585099	-4.538250
-392.253591	-25.825031	-2053.805	
0.75000	-17.474741	-294.273960	-4.538250
-395.379582	-26.643488	-2058.680	
1.00000	-17.474741	-274.305171	-4.538250
-398.726873	-27.675416	-2063.647	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.989514	118.401019	1.674944
148.385201	25.043067	1560.613	
0.25000	4.989514	131.946583	1.674944
167.872023	24.897580	1587.313	
0.50000	4.989514	147.086677	1.674944
188.889753	25.083446	1597.593	
0.75000	4.989514	163.181809	1.674944
211.381034	25.744193	1594.543	
1.00000	4.989514	179.549672	1.674944
235.398214	26.734635	1575.025	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.042619	-181.515870	-1.860996
-235.879648	-6.746280	-702.323982	
0.25000	-12.042619	-165.146189	-1.860996
-211.848899	-7.071746	-704.037087	
0.50000	-12.042619	-149.039121	-1.860996
-189.397079	-7.402017	-705.756614	
0.75000	-12.042619	-133.678563	-1.860996
-168.311184	-7.735887	-707.460299	
1.00000	-12.042619	-120.302602	-1.860996
-148.808950	-8.072962	-709.194141	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.067491	232.559766	3.463888
148.492820	48.086542	3056.335	
0.25000	12.067491	259.642429	3.463888
148.492820	47.278367	3116.718	
0.50000	12.067491	289.917439	3.463888
148.492820	47.205919	3137.672	
0.75000	12.067491	322.097155	3.463888
148.492820	48.119419	3130.880	
1.00000	12.067491	354.825621	3.463888
148.492820	49.769718	3090.618	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.754597	-358.723375	-3.640280
-148.808092	-14.333015	-1372.380	
0.25000	-15.754597	-325.986589	-3.640280
-148.808092	-14.566473	-1375.727	
0.50000	-15.754597	-293.781913	-3.640280
-148.808092	-14.916167	-1379.030	
0.75000	-15.754597	-263.465986	-3.640280
-148.808092	-15.312795	-1382.328	
1.00000	-15.754597	-236.326135	-3.640280
-148.808092	-15.782056	-1385.754	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.714673	265.525170	3.724079
293.694367	50.947527	3935.249	
0.25000	15.714673	290.258952	3.724079
294.342215	50.709376	3982.614	
0.50000	15.714673	317.906310	3.724079
295.033762	51.147610	4003.126	
0.75000	15.714673	347.293083	3.724079
295.765268	52.758194	4001.667	
1.00000	15.714673	377.180951	3.724079
296.532711	55.178531	3973.325	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.506471	-382.406656	-4.128566
-298.167932	-19.701717	-1848.577	
0.25000	-17.506471	-352.511165	-4.128566
-297.385850	-20.500853	-1853.029	
0.50000	-17.506471	-323.101580	-4.128566
-296.641737	-21.413597	-1857.451	
0.75000	-17.506471	-295.416899	-4.128566
-295.939226	-22.374152	-1861.856	
1.00000	-17.506471	-270.630874	-4.128566
-295.282097	-23.403985	-1866.384	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.922747	267.306271	3.705027
366.865890	49.129751	4250.963	
0.25000	14.922747	288.219307	3.705027
366.865890	48.518979	4288.983	
0.50000	14.922747	311.597449	3.705027
366.865890	48.481981	4307.351	
0.75000	14.922747	336.446391	3.705027
366.865890	49.585579	4301.913	
1.00000	14.922747	361.719074	3.705027
366.865890	51.403398	4292.809	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.985036	-367.421634	-3.994724
-367.585483	-23.049937	-2037.563	
0.25000	-16.985036	-342.142526	-3.994724
-367.585483	-23.282362	-2042.492	
0.50000	-16.985036	-317.274310	-3.994724
-367.585483	-23.777163	-2047.392	
0.75000	-16.985036	-293.864571	-3.994724
-367.585483	-24.362502	-2052.283	
1.00000	-16.985036	-272.907377	-3.994724
-367.585483	-25.007512	-2057.272	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.061419	69.744817	1.660436
199.975880	10.815503	1464.589	
0.25000	4.061419	70.269730	1.660436
198.338326	9.926608	1465.205	
0.50000	4.061419	70.859075	1.660436
196.804845	9.300707	1467.713	
0.75000	4.061419	71.485441	1.660436
195.373700	9.176944	1472.961	
1.00000	4.061419	72.122326	1.660436
194.046473	9.336064	1480.081	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.106187	-74.172394	-1.490035
-193.165196	-12.502354	-762.236007	
0.25000	-7.106187	-73.534933	-1.490035
-194.491815	-11.604437	-764.109335	
0.50000	-7.106187	-72.908004	-1.490035
-195.922125	-11.142385	-765.978910	
0.75000	-7.106187	-72.318237	-1.490035
-197.455859	-11.277373	-767.855547	
1.00000	-7.106187	-71.792247	-1.490035
-199.093448	-11.852749	-769.747642	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.720727	158.600342	2.955639
396.529024	28.519283	2738.872	
0.25000	10.720727	163.356173	2.955639
384.153360	27.085892	2734.053	
0.50000	10.720727	168.691449	2.955639
372.561951	26.167944	2734.934	
0.75000	10.720727	174.361518	2.955639
361.744376	26.111135	2747.846	
1.00000	10.720727	180.126660	2.955639
351.709624	26.612263	2766.430	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.124244	-183.832846	-2.738377
-350.667214	-19.205773	-1347.256	
0.25000	-10.124244	-178.065987	-2.738377
-360.699192	-18.199226	-1350.524	
0.50000	-10.124244	-172.387763	-2.738377
-371.519327	-17.719186	-1353.804	
0.75000	-10.124244	-167.048756	-2.738377
-383.104518	-17.744491	-1357.086	
1.00000	-10.124244	-162.283597	-2.738377
-395.479393	-18.263328	-1360.395	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.918910	251.435150	4.250061
288.462714	47.789577	3847.692	
0.25000	13.918910	275.935348	4.250061
292.449827	46.132469	3903.063	
0.50000	13.918910	303.314558	4.250061
296.740810	45.337192	3926.807	
0.75000	13.918910	332.416399	4.250061
301.331387	45.775712	3921.789	
1.00000	13.918910	362.014380	4.250061
306.217744	47.074431	3885.077	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.912200	-367.095122	-4.169068
-305.622171	-22.585015	-1823.809	
0.25000	-16.912200	-337.489498	-4.169068
-300.726083	-21.864457	-1828.224	
0.50000	-16.912200	-308.364998	-4.169068
-296.122117	-21.641123	-1832.667	
0.75000	-16.912200	-280.948989	-4.169068
-291.818716	-21.807773	-1837.090	
1.00000	-16.912200	-256.396979	-4.169068
-287.816186	-22.508236	-1841.630	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.922466	267.647245	4.150640
382.230504	50.416901	4239.569	
0.25000	13.922466	287.785289	4.150640
384.880302	49.426884	4274.145	
0.50000	13.922466	310.291074	4.150640
387.729494	49.208575	4290.879	
0.75000	13.922466	334.212850	4.150640
390.776876	50.202460	4295.030	
1.00000	13.922466	358.542472	4.150640
394.017790	51.966407	4281.220	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.990198	-364.190653	-4.209655
-394.288744	-24.026297	-2031.776	
0.25000	-19.990198	-339.854767	-4.209655
-391.035228	-23.831030	-2036.688	
0.50000	-19.990198	-315.914378	-4.209655
-387.975832	-24.065004	-2041.616	
0.75000	-19.990198	-293.378313	-4.209655
-385.117645	-24.633357	-2046.527	
1.00000	-19.990198	-273.197694	-4.209655
-382.459935	-25.656967	-2051.538	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.581367	243.392266	4.440911
386.724789	44.218754	3843.884	
0.25000	13.581367	275.084466	4.440911
366.889975	42.289930	3859.666	
0.50000	13.581367	310.960550	4.440911
353.392565	41.667466	3857.235	
0.75000	13.581367	349.877327	4.440911
345.133578	42.962474	3862.774	
1.00000	13.581367	390.513569	4.440911
381.105885	45.232453	3849.781	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.564390	-392.223584	-4.974176
-384.173522	-11.934298	-988.211561	
0.25000	-14.564390	-351.583556	-4.974176
-368.199093	-11.320168	-912.945851	
0.50000	-14.564390	-312.657793	-4.974176
-356.454427	-11.923834	-873.082634	
0.75000	-14.564390	-276.767779	-4.974176
-364.949049	-12.389083	-952.311996	
1.00000	-14.564390	-245.056669	-4.974176
-384.788437	-12.957220	-1031.541	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.425574	268.645309	4.250061
397.103426	50.947527	4250.963	
0.25000	20.425574	290.258952	4.250061
393.766601	50.709376	4288.983	
0.50000	20.425574	317.906310	4.250061
390.649044	51.147610	4307.351	
0.75000	20.425574	347.293083	4.250061
396.312114	52.758194	4309.913	
1.00000	20.425574	377.180951	4.250061
405.793423	55.178531	4292.809	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.990198	-382.406656	-4.611282
-408.172627	-25.955480	-2044.016	
0.25000	-19.990198	-352.511165	-4.611282
-398.686898	-25.502991	-2048.920	
0.50000	-19.990198	-323.101580	-4.611282
-392.253591	-25.825031	-2053.805	
0.75000	-19.990198	-295.416899	-4.611282
-395.379582	-26.643488	-2058.680	
1.00000	-19.990198	-274.305171	-4.611282
-398.726873	-27.675416	-2063.647	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.425574	268.645309	4.440911
397.103426	50.947527	4250.963	
0.25000	20.425574	290.258952	4.440911
393.766601	50.709376	4288.983	
0.50000	20.425574	317.906310	4.440911
390.649044	51.147610	4307.351	
0.75000	20.425574	349.877327	4.440911
396.312114	52.758194	4309.913	
1.00000	20.425574	390.513569	4.440911
405.793423	55.178531	4292.809	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.990198	-392.223584	-4.974176
-408.172627	-25.955480	-2044.016	
0.25000	-19.990198	-352.511165	-4.974176
-398.686898	-25.502991	-2048.920	
0.50000	-19.990198	-323.101580	-4.974176
-392.253591	-25.825031	-2053.805	
0.75000	-19.990198	-295.416899	-4.974176
-395.379582	-26.643488	-2058.680	
1.00000	-19.990198	-274.305171	-4.974176
-398.726873	-27.675416	-2063.647	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.425574	268.645309	4.440911
397.103426	50.947527	4250.963	
0.25000	20.425574	290.258952	4.440911
393.766601	50.709376	4288.983	
0.50000	20.425574	317.906310	4.440911
390.649044	51.147610	4307.351	
0.75000	20.425574	349.877327	4.440911
396.312114	52.758194	4309.913	
1.00000	20.425574	390.513569	4.440911
405.793423	55.178531	4292.809	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.990198	-392.223584	-4.974176
-408.172627	-25.955480	-2044.016	
0.25000	-19.990198	-352.511165	-4.974176
-398.686898	-25.502991	-2048.920	
0.50000	-19.990198	-323.101580	-4.974176
-392.253591	-25.825031	-2053.805	
0.75000	-19.990198	-295.416899	-4.974176
-395.379582	-26.643488	-2058.680	
1.00000	-19.990198	-274.305171	-4.974176
-398.726873	-27.675416	-2063.647	

ELEM 80 ========== LENGTH = 4.958005

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.294810	66.797785	0.707095
286.068464	4.805839	1179.501	
0.25000	5.294810	67.351693	0.707095
287.366003	6.025752	1131.714	
0.50000	5.294810	67.974133	0.707095
288.665038	7.463787	1091.687	
0.75000	5.294810	68.644863	0.707095
289.973553	9.098586	1061.178	
1.00000	5.294810	69.342473	0.707095
291.754311	11.137220	1040.391	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.200807	-27.170827	-2.603731
-71.799358	-7.997916	-386.671458	
0.25000	-5.200807	-26.477722	-2.603731
-70.023098	-6.010381	-417.141230	
0.50000	-5.200807	-25.820202	-2.603731
-68.720923	-5.060000	-447.611003	
0.75000	-5.200807	-25.216731	-2.603731
-67.435859	-4.885888	-478.081232	
1.00000	-5.200807	-24.685604	-2.603731
-66.160053	-4.736944	-508.551503	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.125424	162.921843	2.091311
510.978989	19.216433	2395.657	
0.25000	8.125424	168.460802	2.091311
522.659239	19.784657	2300.374	
0.50000	8.125424	174.685085	2.091311
534.358250	20.872783	2225.336	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	8.125424	181.391972	2.091311
546.140195	22.646466	2175.059	
1.00000	8.125424	188.365156	2.091311
562.174953	25.110644	2153.886	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.709195	-113.288012	-3.375883
-223.080179	-9.328874	-694.711663	
0.25000	-9.709195	-106.365217	-3.375883
-207.089235	-9.483460	-748.362029	
0.50000	-9.709195	-99.790493	-3.375883
-195.365051	-9.710876	-802.012394	
0.75000	-9.709195	-93.715589	-3.375883
-183.795485	-10.426492	-855.667197	
1.00000	-9.709195	-88.444883	-3.375883
-172.310982	-11.614132	-909.322625	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.010998	279.033517	3.899322
407.736857	38.791206	3510.508	
0.25000	13.010998	311.232681	3.899322
405.310887	38.094807	3467.883	
0.50000	13.010998	347.419588	3.899322
403.603749	38.493285	3402.332	
0.75000	13.010998	386.396297	3.899322
401.868149	40.241798	3313.811	
1.00000	13.010998	426.788874	3.899322
400.082371	43.268667	3194.329	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.065737	-324.316060	-4.814386
-113.897398	-12.150006	-936.977428	
0.25000	-14.065737	-284.213618	-4.814386
-113.897398	-12.605234	-1008.319	
0.50000	-14.065737	-246.008198	-4.814386
-113.897830	-13.110203	-1079.660	
0.75000	-14.065737	-210.928216	-4.814386
-114.961694	-13.937323	-1151.020	
1.00000	-14.065737	-180.057741	-4.814386
-117.202960	-15.068647	-1222.394	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.903475	293.714798	3.889924
409.210583	39.588921	3841.876	
0.25000	12.903475	320.194736	3.889924
408.718671	38.505470	3758.873	
0.50000	12.903475	349.952158	3.889924
408.236646	38.576966	3672.014	
0.75000	12.903475	382.004266	3.889924
407.759428	39.979410	3586.386	
1.00000	12.903475	415.221177	3.889924
407.658587	42.747851	3490.641	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.194741	-302.982377	-4.718985

```
-279.989793  -13.323729   -1031.667
 0.25000   -13.194741  -270.004067     -4.718985
-279.989793  -13.817446   -1110.243
 0.50000   -13.194741  -238.586187     -4.718985
-279.989793  -14.381726   -1188.818
 0.75000   -13.194741  -209.738973     -4.718985
-279.989793  -15.231109   -1267.409
 1.00000   -13.194741  -184.351660     -4.718985
-279.989793  -16.343663   -1346.011

  COMB DB-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.996736  136.847751    2.230350
193.149149   22.910694   1514.853
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1107

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000    4.996736  154.422393    2.230350
215.013354   21.575094   1503.023
 0.50000    4.996736  174.171684    2.230350
236.924677   20.766932   1429.227
 0.75000    4.996736  195.448887    2.230350
259.006080   20.678690   1447.551
 1.00000    4.996736  217.541754    2.230350
289.007625   21.149020   1399.261

  COMB DB-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.406486  -178.473275    -1.403604
-208.415524   -4.365130  -358.850549
 0.25000   -6.406486  -156.539668    -1.403604
-178.512420   -4.871038  -385.584060
 0.50000   -6.406486  -135.682450    -1.403604
-156.571972   -5.444344  -412.317571
 0.75000   -6.406486  -116.536050    -1.403604
-134.932009   -6.429971  -439.063631
 1.00000   -6.406486   -99.685312    -1.403604
-113.462936   -7.807955  -465.814109

  COMB DB-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.451566  266.933326    4.244540
154.597618   44.126470   2944.845
 0.25000   10.451566  302.091990    4.244540
154.597618   41.601361   2926.725
 0.50000   10.451566  341.601624    4.244540
154.597618   40.275830   2882.850
 0.75000   10.451566  384.158169    4.244540
154.597618   40.425558   2819.671
 1.00000   10.451566  428.261419    4.244540
154.597618   41.893626   2721.122

  COMB DB-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.308613  -352.699989    -3.318283
-146.641088   -8.461534   -693.268509
 0.25000  -11.308613  -308.913532    -3.318283
-146.641088   -9.178627   -744.803486
 0.50000  -11.308613  -267.199059    -3.318283
-146.641088   -9.960414   -796.338463
 0.75000  -11.308613  -228.897914    -3.318283
-146.641088  -11.107595   -847.894102
 1.00000  -11.308613  -195.189957    -3.318283
-146.641088  -12.600254   -899.465656

  COMB DB-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.006462  296.082112    4.372852
364.638716   42.594875   3634.699
 0.25000   12.006462  328.079311    4.372852
365.094262   41.100106   3578.878
 0.50000   12.006462  364.034242    4.372852
365.635115   40.885317   3508.147
 0.75000   12.006462  402.762526    4.372852
366.247064   42.055458   3427.607
 1.00000   12.006462  442.898860    4.372852
366.853237   44.491775   3323.557

  COMB DB-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.452494  -341.789078    -4.024607
-183.952432  -11.816578  -932.262770
 0.25000  -12.452494  -301.941045    -4.024607
-183.952432  -12.470175   -1002.604
 0.50000  -12.452494  -263.979049    -4.024607
-183.952432  -13.177395   -1072.944
 0.75000  -12.452494  -229.123832    -4.024607
-183.952432  -14.146394   -1143.304
 1.00000  -12.452494  -198.446829    -4.024607
-183.952432  -15.369114   -1213.678
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1108

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DB-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.417842  293.213661    4.000145
343.996232   38.317533   3849.830
 0.25000   11.417842  320.170213    4.000145
343.996232   36.838367   3770.433
 0.50000   11.417842  350.462703    4.000145
343.996232   36.440459   3685.501
 0.75000   11.417842  383.091295    4.000145
343.996232   37.215127   3598.204
 1.00000   11.417842  416.935763    4.000145
343.996232   39.292416   3498.392

  COMB DB-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.925007  -305.052641    -3.698089
-329.797770  -13.100664   -1028.481
 0.25000  -11.925007  -271.481062    -3.698089
-329.797770  -13.845831   -1106.745
 0.50000  -11.925007  -239.498096    -3.698089
-329.797770  -14.653053   -1185.009
 0.75000  -11.925007  -210.132168    -3.698089
-329.797770  -15.689462   -1263.289
 1.00000  -11.925007  -184.287891    -3.698089
-329.797770  -16.945344   -1341.581

  COMB DB-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.853644   69.628868    1.653995
 67.565968    6.586472   1218.740
 0.25000    3.853644   70.287593    1.653995
 65.417526    6.014335   1169.046
 0.50000    3.853644   71.031193    1.653995
 63.845428    5.551326   1128.117
 0.75000    3.853644   71.831795    1.653995
 62.291865    5.228080   1097.037
 1.00000    3.853644   72.658506    1.653995
 60.747130    5.095602   1075.621

  COMB DB-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.967999  -29.535360    -0.832501
-277.385171   -5.472295  -384.991284
 0.25000   -3.967999  -28.714547    -0.832501
-278.952305   -5.471662  -415.496209
 0.50000   -3.967999  -27.929860    -0.832501
-280.517688   -5.908566  -446.001133
 0.75000   -3.967999  -27.209088    -0.832501
-282.090639   -6.795908  -476.506290
 1.00000   -3.967999  -26.577655    -0.832501
-284.241587   -8.114453  -507.011996

  COMB DB-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.466478  167.248333    2.908722
233.839242   21.062037   2465.264
 0.25000    7.466478  174.297151    2.908722
213.946316   19.663979   2334.471
 0.50000    7.466478  182.249337    2.908722
199.391888   18.804592   2262.042
 0.75000    7.466478  190.811595    2.908722
185.009119   18.658989   2214.336
 1.00000    7.466478  199.657403    2.908722
170.703563   19.252593   2182.408

  COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -7.080763  -124.627441    -2.054173
-483.617245   -8.742627   -682.439809
 0.25000   -7.080763  -115.844703    -2.054173
-498.128531   -9.279758   -735.200235
 0.50000   -7.080763  -107.452539    -2.054173
-512.616160   -9.858315   -787.960660
 0.75000   -7.080763   -99.744361    -2.054173
-527.176267   -10.473153   -840.723794
 1.00000   -7.080763   -92.987423    -2.054173
-547.087564   -11.120891   -893.492439
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1109

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.084513  280.276865    4.613354
121.216421   40.280115   3514.997
 0.25000   12.084513  312.761639    4.613354
122.274593   37.773880   3472.824
 0.50000   12.084513  349.263068    4.613354
123.419377   36.312953   3408.089
 0.75000   12.084513  388.580400    4.613354
124.639948   36.151192   3319.299
 1.00000   12.084513  429.327533    4.613354
126.072920   37.218628   3199.224

  COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.874339  -327.350244    -3.340914
-373.516738  -11.558348   -922.455123
 0.25000  -11.874339  -286.895801    -3.340914
-372.155513  -12.470939   -992.785715
 0.50000  -11.874339  -248.356387    -3.340914
-371.686965  -13.428949   -1063.116
 0.75000  -11.874339  -212.971356    -3.340914
-371.686965  -14.435194   -1133.466
 1.00000  -11.874339  -181.826853    -3.340914
-371.686965  -15.487440   -1203.830

  COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.764599  293.471096    4.909512
292.924650   40.418849   3841.874
 0.25000   11.764599  320.073482    4.909512
292.924650   38.293011   3759.572
 0.50000   11.764599  349.967552    4.909512
292.924650   37.223282   3673.129
 0.75000   11.764599  382.167085    4.909512
292.924650   37.461090   3586.860
 1.00000   11.764599  415.536973    4.909512
292.924650   38.837261   3489.666

  COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.948813  -303.220467    -3.339456
-381.438580  -12.994144   -1026.568
 0.25000  -12.948813  -270.090274    -3.339456
-381.438580  -13.931985   -1104.889
 0.50000  -12.948813  -238.527872    -3.339456
-381.438580  -14.937825   -1183.211
 0.75000  -12.948813  -209.548171    -3.339456
-381.438580  -16.328399   -1261.548
 1.00000  -12.948813  -184.043541    -3.339456
-381.438580  -18.534773   -1339.897

  COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   13.516389   93.135147    0.970049
331.381390    9.561989    1456.784
 0.25000   13.516389   93.581633    0.970049
332.496027   10.656402    1413.008
 0.50000   13.516389   94.076223    0.970049
333.694605   12.134600    1370.805
 0.75000   13.516389   94.599582    0.970049
334.975810   14.050839    1330.753
 1.00000   13.516389   95.127984    0.970049
336.341817   16.326570    1292.516

  COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.863094  -51.293235    -2.750251
-107.665347  -14.875770   -777.074250
 0.25000   -5.863094  -50.787927    -2.750251
-106.366845  -13.158427   -779.904106
 0.50000   -5.863094  -50.292903    -2.750251
-105.152652  -12.049548   -782.745633
 0.75000   -5.863094  -49.830380    -2.750251
-104.022884  -11.962621   -785.596143
 1.00000   -5.863094  -49.420129    -2.750251
-102.976340  -12.317433   -788.444841
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1110

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   15.519244  200.105737    3.122986
556.592253   27.728881   2771.813
 0.25000   15.519244  203.818945    3.122986
564.556511   27.973960   2685.766
 0.50000   15.519244  207.935605    3.122986
573.113044   29.012439   2606.856
 0.75000   15.519244  212.285538    3.122986
582.261123   30.788831   2542.671
 1.00000   15.519244  216.679461    3.122986
592.016197   33.075607   2487.193

  COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -14.893144  -141.170247    -3.385180
-254.314677   -19.825435   -1391.931
 0.25000  -14.893144  -136.968139    -3.385180
-245.054079   -19.500642   -1395.390
 0.50000  -14.893144  -132.851075    -3.385180
-236.390626   -20.562206   -1398.870
 0.75000  -14.893144  -129.003689    -3.385180
-228.328704   -22.278795   -1402.379
 1.00000  -14.893144  -125.590775    -3.385180
-220.861894   -24.406888   -1405.859

  COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   19.477466  310.432770    4.532442
479.811695   48.124406   3948.668
 0.25000   19.477466  335.465456    4.532442
474.794273   47.844716   3899.377
 0.50000   19.477466  363.229319    4.532442
470.115208   48.591082   3818.801
 0.75000   19.477466  392.566346    4.532442
465.754180   50.457532   3710.818
 1.00000   19.477466  422.196665    4.532442
461.720540   53.170805   3573.476

  COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -18.401602  -319.622394    -4.752896
-177.667710   -24.714068   -1894.537
 0.25000  -18.401602  -291.302625    -4.752896
-181.601933   -24.686949   -1897.685
 0.50000  -18.401602  -263.531539    -4.752896
-185.848365   -25.762659   -1900.896
 0.75000  -18.401602  -237.557365    -4.752896
-190.409696   -27.362259   -1904.159
 1.00000  -18.401602  -214.565494    -4.752896
-195.291894   -29.340308   -1907.342

  COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   20.002076  329.853187    4.501319
479.181863   50.697909   4289.281
 0.25000   20.002076  350.454838    4.501319
475.746352   50.193247   4210.197
 0.50000   20.002076  373.303015    4.501319
472.536934   50.690258   4111.165
 0.75000   20.002076  397.445843    4.501319
469.550562   52.459367   4002.196
 1.00000   20.002076  421.829998    4.501319
466.783866   55.073494   3877.551

  COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -17.019394  -310.804971    -5.129974
-333.397904   -27.132010   -2063.753
 0.25000  -17.019394  -287.499345    -5.129974
-336.047847   -26.580842   -2067.095
 0.50000  -17.019394  -264.645270    -5.129974
-338.908956   -27.036862   -2070.493
 0.75000  -17.019394  -243.269973    -5.129974
-341.985660   -28.011942   -2073.947
 1.00000  -17.019394  -224.347863    -5.129974
-345.280845   -29.354497   -2077.322
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1111

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.734855  138.356339    2.893691
186.304971   25.558580   1574.905
 0.25000    4.734855  152.360596    2.893691
206.493298   24.224116   1564.187
 0.50000    4.734855  167.889526    2.893691
228.202146   23.442127   1536.664
 0.75000    4.734855  184.299319    2.893691
251.426563   23.190277   1496.727
 1.00000    4.734855  200.870972    2.893691
276.155295   23.289158   1441.140

  COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.890605  -163.561605    -1.260380
-197.475348   -7.490093  -709.232109
 0.25000  -11.890605  -147.713036    -1.260380
-174.048796   -8.660477  -709.616511
 0.50000  -11.890605  -132.181815    -1.260380
-152.135968   -9.911983  -710.021641
 0.75000  -11.890605  -117.664740    -1.260380
-131.746129  -11.895840  -710.452985
 1.00000  -11.890605  -104.793357    -1.260380
-112.850221  -13.856787  -710.859862

  COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.619543  271.394894    4.469415
156.533288   48.788241   3090.588
 0.25000   11.619543  299.393079    4.469415
156.533288   47.179820   3071.972
 0.50000   11.619543  330.441416    4.469415
156.533288   46.484408   3019.134
 0.75000   11.619543  363.249061    4.469415
156.533288   46.840564   2940.363
 1.00000   11.619543  396.378093    4.469415
156.533288   47.964805   2829.683

  COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.354855  -323.697807    -3.437749
-147.507027   -15.560098   -1385.783
 0.25000  -15.354855  -292.030102    -3.437749
-147.507027   -16.352895   -1386.217
 0.50000  -15.354855  -260.976105    -3.437749
-147.507027   -17.438454   -1386.704
 0.75000  -15.354855  -231.931574    -3.437749
-147.507027   -18.864265   -1387.243
 1.00000  -15.354855  -206.215072    -3.437749
-147.507027   -20.528487   -1387.697

  COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   15.264090  319.535791    4.936056
391.123226   51.714105   3973.096
 0.25000   15.264090  345.105766    4.936056
391.950966   51.090030   3920.273
 0.50000   15.264090  373.457529    4.936056
392.827186   51.403349   3837.906
 0.75000   15.264090  403.419681    4.936056
393.747979   52.756978   3735.768
 1.00000   15.264090  433.673392    4.936056
394.708360   54.837502   3608.132

  COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -17.116546  -334.351088    -4.121203
-216.521138   -21.502655   -1866.501
 0.25000  -17.116546  -305.431846    -4.121203
-215.964132   -22.837534   -1868.627
 0.50000  -17.116546  -277.073086    -4.121203
-215.639437   -24.441310   -1870.785
 0.75000  -17.116546  -250.549416    -4.121203
-215.540915   -26.323461   -1872.994
 1.00000  -17.116546  -227.062227    -4.121203
-215.482040   -28.412701   -1875.110
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1112

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DL-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   14.487771  328.132274    4.710865
388.065003   49.677658   4292.851
 0.25000   14.487771  349.752268    4.710865
388.065003   48.846803   4218.945
 0.50000   14.487771  373.727568    4.710865
388.065003   48.796171   4121.379
 0.75000   14.487771  399.061393    4.710865
388.065003   49.625293   4010.275
 1.00000   14.487771  424.643390    4.710865
388.065003   51.109940   3880.728

  COMB DL-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -16.609788  -313.730323    -4.105255
-374.446727   -24.530324   -2057.313
 0.25000  -16.609788  -289.276751    -4.105255
-374.446727   -25.377605   -2060.549
 0.50000  -16.609788  -265.297081    -4.105255
-374.446727   -26.451191   -2063.817
 0.75000  -16.609788  -242.869107    -4.105255
-374.446727   -27.755557   -2067.131
 1.00000  -16.609788  -223.011011    -4.105255
-374.446727   -29.259788   -2070.389

  COMB DL-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.887098   94.952267    1.931278
101.369613   10.924449   1480.467
 0.25000    3.887098   95.494568    1.931278
 99.760825   10.112226   1434.943
 0.50000    3.887098   96.098771    1.931278
 98.256862    9.526656   1391.512
 0.75000    3.887098   96.737258    1.931278
 96.856961    9.188251   1350.939
 1.00000    3.887098   97.382038    1.931278
 95.559983    9.074677   1312.751

  COMB DL-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.954458  -52.747797    -1.397403
-317.300167   -12.790071   -769.643680
 0.25000   -6.954458  -52.131392    -1.397403
-318.666085   -12.26411 5  -772.871550
 0.50000   -6.954458  -51.526932    -1.397403
-320.135143   -12.215365   -776.153133
 0.75000   -6.954458  -50.961549    -1.397403
-321.707071   -12.736598   -779.440608
 1.00000   -6.954458  -50.463419    -1.397403
-323.383917   -13.594605   -782.723311

  COMB DL-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.471248  200.882861    3.173677
255.337039   28.655437   2766.969
 0.25000   10.471248  205.796526    3.173677
243.171250   27.500267   2684.792
 0.50000   10.471248  211.266321    3.173677
231.800050   27.006404   2607.423
 0.75000   10.471248  217.046056    3.173677
221.206616   27.240889   2542.349
 1.00000   10.471248  222.883276    3.173677
211.397230   27.999778   2484.296

  COMB DL-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -9.833495  -147.963113    -3.319588
-518.860745   -19.688895   -1350.270
 0.25000   -9.833495  -142.382960    -3.319588
-529.177422   -18.683233   -1363.552
 0.50000   -9.833495  -136.910996    -3.319588
-540.275871   -18.186099   -1366.840
 0.75000   -9.833495  -131.793662    -3.319588
-552.156156   -18.022626   -1370.920
 1.00000   -9.833495  -127.279694    -3.319588
-564.825845   -18.477133   -1382.586
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1113

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DL-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   13.412613  306.247411    4.889583
176.963964   48.292630   3885.485
 0.25000   13.412613  331.576182    4.889583
181.235663   46.464915   3838.695
 0.50000   13.412613  359.653331    4.889583
185.814749   45.461209   3759.785
 0.75000   13.412613  389.325151    4.889583
190.699353   45.496248   3652.969
 1.00000   13.412613  419.287043    4.889583
195.884286   46.341173   3516.474

  COMB DL-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -16.415982  -318.440224    -4.114007
-441.009968   -23.580099   -1841.538
 0.25000  -16.415982  -289.800231    -4.114007
-436.415803   -23.668454   -1844.672
 0.50000  -16.415982  -261.716486    -4.114007
-432.111457   -24.040052   -1847.887
 0.75000  -16.415982  -235.451015    -4.114007
-428.095253   -24.675570   -1851.117
 1.00000  -16.415982  -212.184832    -4.114007
-424.387922   -25.817182   -1854.349

  COMB DL-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   13.448209  328.880099    5.603940
352.477236   51.320992   4281.417
 0.25000   13.448209  349.698990    5.603940
355.339612   49.707717   4203.228
 0.50000   13.448209  372.778414    5.603940
358.406766   48.954862   4104.372
 0.75000   13.448209  397.168741    5.603940
361.675319   49.265799   3994.773
 1.00000   13.448209  421.798172    5.603940
365.142141   50.364831   3869.004

  COMB DL-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -19.596689  -310.590860    -4.012954
-451.016261   -25.431880   -2051.522
 0.25000  -19.596689  -287.049571    -4.012954
-447.999196   -26.414367   -2061.267
 0.50000  -19.596689  -263.964622    -4.012954
-445.171567   -27.777837   -2070.937
 0.75000  -19.596689  -242.373565    -4.012954
```

```
-442.537566  -29.697749  -2080.632
 1.00000  -19.596689 -223.250268   -4.012954
-440.099364  -32.298640  -2090.276

 COMB       DB -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    13.010998   296.082112    4.909512
510.978989    44.128470    3849.830
 0.25000    13.010998   328.079311    4.909512
522.659239    41.601361    3770.433
 0.50000    13.010998   364.034242    4.909512
534.358250    40.885317    3685.501
 0.75000    13.010998   402.762526    4.909512
546.140195    42.065458    3598.204
 1.00000    13.010998   442.898860    4.909512
562.174953    44.491775    3498.392

 COMB       DB -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -14.065737 -352.699989   -4.814386
-483.617245  -13.323729   -1031.667
 0.25000  -14.065737 -308.913532   -4.814386
-498.128531  -13.931985   -1110.243
 0.50000  -14.065737 -267.199059   -4.814386
-512.616160  -14.937825   -1188.818
 0.75000  -14.065737 -229.123832   -4.814386
-527.176267  -16.328399   -1267.409
 1.00000  -14.065737 -198.446829   -4.814386
-547.087564  -17.134803   -1346.011
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD              >
                                     1114

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       DL -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    20.002076   329.853187    5.603940
556.592253    51.714105    4292.851
 0.25000    20.002076   350.454838    5.603940
564.556511    51.090030    4218.945
 0.50000    20.002076   373.727568    5.603940
573.113044    51.403349    4121.379
 0.75000    20.002076   403.419681    5.603940
582.261123    52.758978    4010.275
 1.00000    20.002076   433.673392    5.603940
592.016197    55.073494    3880.728

 COMB       DL -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -19.596689 -334.351088   -5.129974
-518.860745  -27.132010   -2063.753
 0.25000  -19.596689 -305.431846   -5.129974
-529.177422  -26.580842   -2067.095
 0.50000  -19.596689 -277.073086   -5.129974
-540.275871  -27.777837   -2070.937
 0.75000  -19.596689 -250.549416   -5.129974
-552.156156  -29.697749   -2080.632
 1.00000  -19.596689 -227.062227   -5.129974
-564.825845  -32.298640   -2090.276

 COMB       CAR -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    20.002076   329.853187    5.603940
556.592253    51.714105    4292.851
 0.25000    20.002076   350.454838    5.603940
564.556511    51.090030    4218.945
 0.50000    20.002076   373.727568    5.603940
573.113044    51.403349    4121.379
 0.75000    20.002076   403.419681    5.603940
582.261123    52.758978    4010.275
 1.00000    20.002076   442.898860    5.603940
592.016197    55.073494    3880.728

 COMB       CAR -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -19.596689 -352.699989   -5.129974
-518.860745  -27.132010   -2063.753
 0.25000  -19.596689 -308.913532   -5.129974
-529.177422  -26.580842   -2067.095
 0.50000  -19.596689 -277.073086   -5.129974
-540.275871  -27.777837   -2070.937
 0.75000  -19.596689 -250.549416   -5.129974
-552.156156  -29.697749   -2080.632
 1.00000  -19.596689 -227.062227   -5.129974
-564.825845  -32.298640   -2090.276

 COMB    DESIGN -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    20.002076   329.853187    5.603940
556.592253    51.714105    4292.851
 0.25000    20.002076   350.454838    5.603940
564.556511    51.090030    4218.945
 0.50000    20.002076   373.727568    5.603940
573.113044    51.403349    4121.379
 0.75000    20.002076   403.419681    5.603940
582.261123    52.758978    4010.275
 1.00000    20.002076   442.898860    5.603940
592.016197    55.073494    3880.728

 COMB    DESIGN -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -19.596689 -352.699989   -5.129974
-518.860745  -27.132010   -2063.753
 0.25000  -19.596689 -308.913532   -5.129974
-529.177422  -26.580842   -2067.095
 0.50000  -19.596689 -277.073086   -5.129974
-540.275871  -27.777837   -2070.937
 0.75000  -19.596689 -250.549416   -5.129974
-552.156156  -29.697749   -2080.632
 1.00000  -19.596689 -227.062227   -5.129974
-564.825845  -32.298640   -2090.276
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD              >
                                     1115

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        81 ================== LENGTH
=     4.958103

 COMB DB-G1-1 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    5.112195    88.576680    0.710929
410.063581    7.787040    1039.442
 0.25000    5.112195    89.123823    0.710929
411.386172    9.719868   957.361079
 0.50000    5.112195    89.733610    0.710929
412.677210   11.873007   881.575819
 0.75000    5.112195    90.386898    0.710929
413.946736   14.299061   814.324782
 1.00000    5.112195    91.066240    0.710929
415.664905   17.192307   757.427327

 COMB DB-G1-1 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -5.020666  -26.712274   -3.317807
-71.752584   -5.641192  -508.695248
 0.25000  -5.020666  -26.036248   -3.317807
-70.016128   -3.855317  -539.298588
 0.50000  -5.020666  -25.393823   -3.317807
-68.751039   -3.627778  -569.901929
 0.75000  -5.020666  -24.805191   -3.317807
-67.527238   -4.471038  -600.505269
 1.00000  -5.020666  -24.286864   -3.317807
-66.335211   -5.330116  -631.108612

 COMB DB-G1-2 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    7.808345   201.708266    3.747007
691.751749   20.242666    2152.526
 0.25000    7.808345   207.179162    3.747007
703.658744   20.602106    1998.441
 0.50000    7.808345   213.276566    3.747007
715.282178   21.296268    1864.138
 0.75000    7.808345   219.808673    3.747007
726.710579   22.507839    1759.649
 1.00000    7.808345   226.598857    3.747007
742.178944   24.212654    1677.061

 COMB DB-G1-2 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -9.497814  -99.324089   -3.490632
-194.596318  -11.249663  -909.518928
 0.25000  -9.497814  -92.567046   -3.490632
-178.968292  -13.935230  -963.518054
 0.50000  -9.497814  -86.143709   -3.490632
-167.583474  -16.934576  -1017.517
 0.75000  -9.497814  -80.252243   -3.490632
-156.571589  -21.269335  -1071.516
 1.00000  -9.497814  -75.075390   -3.490632
-145.847176  -25.856989  -1125.515

 COMB DB-G1-3 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   12.459480   331.662037    5.245607
561.583748   38.172379    3193.220
 0.25000   12.459480   363.445834    5.245607
558.935679   36.907233    3075.704
 0.50000   12.459480   398.876024    5.245607
556.951615   36.527510    2936.238
 0.75000   12.459480   436.817473    5.245607
554.949915   37.349311    2776.185
 1.00000   12.459480   476.128384    5.245607
552.906789   39.383583    2589.223

 COMB DB-G1-3 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -13.590299 -296.704902   -4.437534
-100.299162  -14.578487   -1222.575
 0.25000  -13.590299 -257.585332   -4.437534
-100.299355  -16.902540   -1294.336
 0.50000  -13.590299 -220.284589   -4.437534
-100.299355  -19.443522   -1366.097
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD              >
                                     1116

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST              P              V2              V3
        T              M2              M3
 0.75000  -13.590299 -186.094626   -4.437534
-100.299355  -23.202412   -1437.859
 1.00000  -13.590299 -155.994356   -4.437534
-100.746110  -27.278718   -1509.620

 COMB DB-G1-4 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   12.470908   351.485500    5.084797
509.303114   38.421365    3490.279
 0.25000   12.470908   377.624090    5.084797
508.735559   37.464212    3322.355
 0.50000   12.470908   406.759476    5.084797
508.182074   37.879614    3154.289
 0.75000   12.470908   437.960483    5.084797
507.751149   39.767634    2989.282
 1.00000   12.470908   470.288138    5.084797
507.751149   43.040165    2817.165

 COMB DB-G1-4 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -12.729787  -270.319462   -5.230778
-324.606987  -15.588081  -1346.111
 0.25000  -12.729787  -238.149141   -5.230778
-324.606987  -18.098259   -1425.120
 0.50000  -12.729787  -207.474912   -5.230778
-324.606987  -20.516259   -1504.129
 0.75000  -12.729787  -179.359287   -5.230778
-324.606987  -23.961025   -1583.138
 1.00000  -12.729787  -154.605102   -5.230778
-324.606987  -27.681311   -1662.149

 COMB DB-G2-1 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    4.749658   156.940638    3.669166
235.036730   19.876379    1398.838
 0.25000    4.749658   174.295095    3.669166
257.294218   17.164292    1360.128
 0.50000    4.749658   193.637642    3.669166
279.039888   14.783972    1312.111
 0.75000    4.749658   214.356101    3.669166
300.443650   12.774394    1257.277
 1.00000    4.749658   235.864450    3.669166
329.330526   11.127363    1187.079

 COMB DB-G2-1 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -6.255500 -161.461035   -0.239870
-174.276559   -7.661608 -465.852271
 0.25000  -6.255500 -140.057540   -0.239870
-145.111880   -11.253447 -492.809948
 0.50000  -6.255500 -119.686027   -0.239870
-122.877791   -15.193068 -519.767625
 0.75000  -6.255500 -101.017306   -0.239870
-103.357315   -19.187624 -546.725302
 1.00000  -6.255500   -84.579243   -0.239870
-83.392998   -23.276849 -573.682981

 COMB DB-G2-2 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   10.045994   305.758441    5.666558
166.969701   40.095268    2721.120
 0.25000   10.045994   340.463968    5.666558
166.969701   36.400237    2651.282
 0.50000   10.045994   379.147794    5.666558
166.969701   33.787447    2560.855
 0.75000   10.045994   420.574389    5.666558
166.969701   32.690919    2453.343
 1.00000   10.045994   463.497043    5.666558
166.969701   33.008722    2313.018

 COMB DB-G2-2 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -10.919386 -320.015210   -2.795729
-150.271426  -12.320665  -899.488804
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD              >
                                     1117

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST              P              V2              V3
        T              M2              M3
 0.25000  -10.919386 -277.301448   -2.795729
-150.271426  -15.843574  -951.320805
 0.50000  -10.919386 -236.574235   -2.795729
-150.271426  -19.521507   -1003.153
 0.75000  -10.919386 -199.244330   -2.795729
-150.271426  -23.311584   -1054.985
 1.00000  -10.919386 -166.376911   -2.795729
-150.271426  -27.157245   -1106.818

 COMB DB-G2-3 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   11.564356   348.143174    6.362364
464.176533   40.341128    3322.482
 0.25000   11.564356   379.728230    6.362364
464.535826   38.276489    3192.817
 0.50000   11.564356   414.931888    6.362364
464.966935   37.302766    3052.854
 0.75000   11.564356   452.632109    6.362364
465.447979   37.740693    2905.909
 1.00000   11.564356   491.694303    6.362364
465.845276   39.494090    2737.102

 COMB DB-G2-3 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -12.009952 -305.989210   -3.766417
-177.461279  -14.892543   -1213.796
 0.25000  -12.009952 -267.117103   -3.766417
-177.461279  -19.041010   -1284.565
 0.50000  -12.009952 -230.053249   -3.766417
-177.461279  -23.710326   -1355.334
 0.75000  -12.009952 -196.081686   -3.766417
-177.461279  -28.481901   -1426.102
 1.00000  -12.009952 -166.169260   -3.766417
-177.461279  -33.397743   -1496.872

 COMB DB-G2-4 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   10.971602   350.912094    5.810391
412.890780   35.888848    3498.530
 0.25000   10.971602   377.521221    5.810391
412.890780   34.315201    3333.769
 0.50000   10.971602   407.180554    5.810391
412.890780   33.690170    3168.290
 0.75000   10.971602   438.942801    5.810391
412.890780   34.171832    3003.912
 1.00000   10.971602   471.852093    5.810391
412.890780   35.692060    2827.514

 COMB DB-G2-4 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -11.487675 -269.592903   -3.646203
-393.034201  -16.522080   -1341.602
 0.25000  -11.487675 -236.843771   -3.646203
-393.034201  -20.348659   -1420.368
 0.50000  -11.487675 -205.617749   -3.646203
-393.034201  -24.619780   -1499.134
 0.75000  -11.487675 -176.996482   -3.646203
-393.034201  -28.986520   -1577.899
 1.00000  -11.487675 -151.796654   -3.646203
-393.034201  -33.473102   -1656.666

 COMB DB-G3-1 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    3.677669   91.931518    1.340204
65.803213    5.897951    1076.731
 0.25000    3.677669   92.581320    1.340204
63.691819    4.761281   991.924966
 0.50000    3.677669   93.308952    1.340204
62.151142    5.087379   913.967946
 0.75000    3.677669   94.087859    1.340204
60.657679    5.451691   845.937526
 1.00000    3.677669   94.891953    1.340204
59.199406    5.852202   788.798823
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD              >
                                     1118

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -3.790777   -27.394012   -0.769690
-393.630288   -7.980255  -506.870440
 0.25000   -3.790777   -26.593818   -0.769690
-395.232255   -7.910667  -537.658731
 0.50000   -3.790777   -25.828261   -0.769690
-396.791994   -7.864933  -568.447022
 0.75000   -3.790777   -25.126319   -0.769690
-398.322717   -8.825580  -599.235313
 1.00000   -3.790777   -24.511147   -0.769690
-400.406237   -9.691277  -630.023606

 COMB DB-G3-2 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    7.238701   206.050681    2.481286
205.496322   19.760792    2183.963
 0.25000    7.238701   213.004654    2.481286
185.939272   18.458859    2034.779
 0.50000    7.238701   220.786683    2.481286
171.667542   19.058887    1903.587
 0.75000    7.238701   229.117550    2.481286
157.825744   20.654435    1798.318
 1.00000    7.238701   237.722071    2.481286
144.314319   23.065049    1710.767

 COMB DB-G3-2 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -6.764327 -109.229648   -3.204992
-646.094758   -11.013132  -893.320032
 0.25000   -6.764327 -100.666886   -3.204992
-660.923885   -12.081740  -946.427238
 0.50000   -6.764327   -92.478514   -3.204992
-675.364574   -13.183617  -999.534443
 0.75000   -6.764327   -84.970913   -3.204992
-689.537858   -14.304618   -1052.642
 1.00000   -6.764327   -78.387231   -3.204992
-708.830065   -15.446941   -1105.751

 COMB DB-G3-3 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   11.600271   332.721309    4.690692
112.412506   36.757504    3203.389
 0.25000   11.600271   364.787829    4.690692
113.385258   33.371586    3083.648
 0.50000   11.600271   400.526730    4.690692
114.415726   32.018133    2945.578
 0.75000   11.600271   438.800529    4.690692
115.486433   31.929994    2786.753
 1.00000   11.600271   478.457360    4.690692
116.680180   33.056034    2599.826

 COMB DB-G3-3 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -11.336996 -298.525196   -3.063672
-506.449915  -15.227270   -1203.695
 0.25000  -11.336996 -259.061334   -3.063672
-506.449915  -17.331870   -1274.497
 0.50000  -11.336996 -221.433510   -3.063672
-506.449915  -19.596427   -1345.298
 0.75000  -11.336996 -186.945252   -3.063672
-506.449915  -21.96969    -1416.100
 1.00000  -11.336996 -156.576885   -3.063672
-506.449915  -24.418438   -1486.902

 COMB DB-G3-4 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   11.294946   351.319348    6.444008
348.386260   36.761809    3490.154
 0.25000   11.294946   377.578803    6.444008
348.386258   33.835920    3323.011
 0.50000   11.294946   406.848079    6.444008
348.386258   32.647173    3155.194
 0.75000   11.294946   438.192695    6.444008
348.386258   32.568575    2989.978
 1.00000   11.294946   470.669349    6.444008
348.386258   33.531349    2816.200
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD              >
                                     1119

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -12.540910 -269.938060   -3.011415
-468.001680  -18.242169   -1339.848
 0.25000  -12.540910 -237.619459   -3.011415
-468.001680  -23.071847   -1418.731
 0.50000  -12.540910 -206.804001   -3.011415
-468.001680  -28.037147   -1497.614
 0.75000  -12.540910 -178.559133   -3.011415
-468.001680  -33.133867   -1576.497
 1.00000  -12.540910 -153.690429   -3.011415
-468.001680  -38.310052   -1655.382

 COMB DL-G1-1 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   13.415514   122.532989    0.884402
477.968487   12.443628    1291.298
 0.25000   13.415514   122.988174    0.884402
479.133827   15.075914    1201.374
 0.50000   13.415514   123.487022    0.884402
480.355599   18.452037    1116.373
 0.75000   13.415514   124.010757    0.884402
481.631358   22.620598    1028.835
 1.00000   13.415514   124.540223    0.884402
482.962373   27.197178   945.831455

 COMB DL-G1-1 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -5.683100   -42.794604   -4.530972
-88.501231   -10.884029  -788.451166
 0.25000   -5.683100   -42.309736   -4.530972
-87.226576   -8.213000   -791.395937
 0.50000   -5.683100   -41.837440   -4.530972
-86.064453   -7.355295   -794.320989
 0.75000   -5.683100   -41.398801   -4.530972
-85.009841   -7.632625   -797.265927
 1.00000   -5.683100   -41.010289   -4.530972
-84.057607   -8.231536   -800.236065

 COMB DL-G1-2 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   15.277694   250.232796    5.208534
760.712635   26.810273    2485.430
 0.25000   15.277694   254.018311    5.208534
769.039654   27.598277    2322.888
 0.50000   15.277694   258.166419    5.208534
777.763907   29.206523    2166.291
 0.75000   15.277694   262.521978    5.208534
786.884009   31.646841    2024.616
 1.00000   15.277694   266.925102    5.208534
796.379923   34.623804    1891.737

 COMB DL-G1-2 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -14.686467  -120.240919   -4.466420
-203.914779   -21.198615   -1485.852
 0.25000  -14.686467  -116.208487   -4.466420
-194.825166   -23.590309   -1409.665
 0.50000  -14.686467  -112.280449   -4.466420
-186.538083   -27.020341   -1413.446
 0.75000  -14.686467  -108.632326   -4.466420
-179.315584   -31.587477   -1417.255
 1.00000  -14.686467  -105.401097   -4.466420
-172.229618   -36.470792   -1421.075

 COMB DL-G1-3 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   18.996745   376.319661    6.529403
653.252663   46.672113    3572.011
 0.25000   18.996745   401.823773    6.529403
648.080173   46.316371    3422.898
 0.50000   18.996745   429.792531    6.529403
643.339119   47.018247    3241.870
 0.75000   18.996745   459.154569    6.529403
639.004081   48.979332    3033.939
 1.00000   18.996745   488.836713    6.529403
635.056367   51.888591    2796.503
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD              >
                                     1120

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -17.943152 -286.907923   -5.426014
-140.298526   -26.195489   -1907.379
 0.25000  -17.943152 -259.715606   -5.426014
-144.318202   -28.441415   -1911.297
 0.50000  -17.943152 -233.219250   -5.426014
-148.563212   -31.497595   -1915.171
 0.75000  -17.943152 -208.613586   -5.426014
-153.032887   -35.565793   -1919.077
 1.00000  -17.943152 -186.823770   -5.426014
-157.736990   -40.128866   -1923.072

 COMB DL-G1-4 -------------------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   19.600310   401.607529    6.283656
596.401245   49.693142    3676.983
 0.25000   19.600310   422.597267    6.283656
592.822905   49.947944    3688.911
 0.50000   19.600310   445.614201    6.283656
589.541003   51.552393    3479.060
 0.75000   19.600310   469.777739    6.283656
586.537028   54.634002    3258.899
 1.00000   19.600310   494.204730    6.283656
583.796412   58.910813    3024.064

 COMB DL-G1-4 -------------------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -16.583880  -274.018315   -6.553099
-360.791743   -27.156689   -2077.408
 0.25000  -16.583880  -251.639512   -6.553099
-363.484409   -28.710806   -2081.152
 0.50000  -16.583880  -229.835415   -6.553099
-366.331729   -31.038525   -2084.869
 0.75000  -16.583880  -209.586302   -6.553099
```

```
-369.337596  -34.496346   -2088.614
 1.00000   -16.583880  -191.653456   -6.553099
-372.505418  -38.670908   -2092.417

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.489298  161.906389    5.158678
228.518705   21.353107   1440.748
 0.25000    4.489298  176.182730    5.158678
249.671225   18.975046   1394.682
 0.50000    4.489298  191.829598    5.158678
271.811705   16.911740   1331.974
 0.75000    4.489298  208.259566    5.158678
294.956833   15.162193   1257.279
 1.00000    4.489298  224.863195    5.158678
319.074501   13.834586   1166.741

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.750958  -148.798165   -0.405739
-169.299788  -12.988796  -717.859084
 0.25000  -11.750958  -133.588123   -0.405739
-146.363615  -17.433804  -711.773839
 0.50000  -11.750958  -118.769362   -0.405739
-125.448823  -22.103868  -712.698269
 0.75000  -11.750958  -105.007188   -0.405739
-106.461237  -26.914473  -713.633812
 1.00000  -11.750958   -92.817195   -0.405739
-89.337474  -31.864331  -714.577814

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.182090  317.145788    6.641414
174.100337   45.391004   2829.706
 0.25000   11.182090  345.673995    6.641414
174.100337   43.078037   2742.301
 0.50000   11.182090  376.950386    6.641414
174.100337   41.525909   2620.863
 0.75000   11.182090  409.783736    6.641414
174.100337   41.019339   2474.514
 1.00000   11.182090  442.977419    6.641414
174.100337   41.427720   2295.861
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1121

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.968017  -295.037082   -3.141893
-155.816114  -19.662299   -1387.763
 0.25000  -14.968017  -264.628456   -3.141893
-155.816114  -23.449079   -1388.897
 0.50000  -14.968017  -235.001131   -3.141893
-155.816114  -27.437744   -1390.028
 0.75000  -14.968017  -207.486708   -3.141893
-155.816114  -31.693179   -1391.169
 1.00000  -14.968017  -183.113562   -3.141893
-155.816114  -36.271556   -1392.369

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.830759  382.816772    7.439107
504.928253   49.062824   3607.304
 0.25000   14.830759  408.870948    7.439107
505.872981   48.361296   3459.081
 0.50000   14.830759  437.433094    7.439107
506.803033   48.455859   3279.290
 0.75000   14.830759  467.417083    7.439107
507.711726   49.561778   3079.512
 1.00000   14.830759  497.730172    7.439107
508.594422   51.566198   2854.559

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -16.754300  -298.329972   -4.218132
-196.363858  -25.485961   -1875.164
 0.25000  -16.754300  -270.560456   -4.218132
-196.363901  -30.452664   -1931.262
 0.50000  -16.754300  -243.504536   -4.218132
-196.363901  -35.708014   -1944.434
 0.75000  -16.754300  -218.378133   -4.218132
-196.363875  -41.275414   -1957.601
 1.00000  -16.754300  -196.118758   -4.218132
-196.363875  -47.098389   -1970.820

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.070507  399.168443    6.933411
458.979662   46.692525   3880.843
 0.25000   14.070507  421.197717    6.933411
458.979662   46.008098   3699.827
 0.50000   14.070507  445.349118    6.933411
458.979662   46.117842   3491.602
 0.75000   14.070507  470.702792    6.933411
458.979662   47.324899   3268.768
 1.00000   14.070507  496.334712    6.933411
458.979662   49.756266   3028.251

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -16.263367  -275.186509   -4.503041
-435.301880  -27.535762   -2070.477
 0.25000  -16.263367  -251.705190   -4.503041
-435.301880  -31.392159   -2118.554
 0.50000  -16.263367  -228.827186   -4.503041
-435.301880  -35.553709   -2130.887
 0.75000  -16.263367  -207.580748   -4.503041
-435.301880  -40.249022   -2143.230
 1.00000  -16.263367  -188.759983   -4.503041
-435.301880  -45.596033   -2155.616

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.719772  124.691119    2.052133
80.066183    9.869851   1314.127
 0.25000    3.719772  125.243427    2.052133
78.478475    8.948742   1223.205
 0.50000    3.719772  125.851857    2.052133
77.027765    8.598432   1134.096
 0.75000    3.719772  126.490552    2.052133
75.708760    8.742521   1047.218
 1.00000    3.719772  127.135932    2.052133
74.516680    9.517121   963.158268
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1122

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.813668  -43.246603   -1.513567
-455.528261  -14.771353  -782.771585
 0.25000   -6.813668  -42.654605   -1.513567
-456.952483  -14.444389  -786.311033
 0.50000   -6.813668  -42.078195   -1.513567
-458.446681  -14.487613  -789.814856
 0.75000   -6.813668  -41.542638   -1.513567
-460.009789  -15.198104  -794.115881
 1.00000   -6.813668  -41.070593   -1.513567
-461.640881  -16.761865  -797.670914

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.226140  250.313927    3.323268
204.242467   28.509890   2486.241
 0.25000   10.226140  255.318508    3.323268
192.217993   28.290361   2323.354
 0.50000   10.226140  260.826709    3.323268
181.244931   29.194336   2175.138
 0.75000   10.226140  266.609021    3.323268
171.258029   31.211007   2033.764
 1.00000   10.226140  272.452686    3.323268
162.244105   34.397918   1899.482

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.550208  -126.624296   -4.512372
-703.595723  -19.870225   -1382.700
 0.25000   -9.550208  -121.265459   -4.512372
-714.351980  -19.267229   -1388.575
 0.50000   -9.550208  -116.046834   -4.512372
-725.638919  -19.280368   -1394.397
 0.75000   -9.550208  -111.196341   -4.512372
-737.447591  -19.983322   -1400.258
 1.00000   -9.550208  -106.921921   -4.512372
-749.767877  -21.584200   -1408.840

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.919446  370.820022    5.922262
146.506634   45.577903   3518.059
 0.25000   12.919446  396.628970    5.922262
151.059648   43.147701   3374.130
 0.50000   12.919446  424.915283    5.922262
155.803957   41.943836   3196.741
 0.75000   12.919446  454.609716    5.922262
160.731797   42.089531   2992.102
 1.00000   12.919446  484.624287    5.922262
165.826366   43.689857   2757.684

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -15.937041  -285.797164   -4.171059
-592.697467  -26.657886   -1854.469
 0.25000  -15.937041  -258.297578   -4.171059
-588.413679  -27.857685   -1858.315
 0.50000  -15.937041  -231.502831   -4.171059
-584.522026  -29.573548   -1862.123
 0.75000  -15.937041  -206.000000   -4.171059
-581.015076  -31.962154   -1865.958
 1.00000  -15.937041  -184.569337   -4.171059
-577.877704  -35.323186   -1869.850

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.990178  400.627066    8.020345
394.643169   47.247345   3869.722
 0.25000   12.990178  421.840688    8.020345
397.708429   45.148725   3683.191
 0.50000   12.990178  445.091891    8.020345
400.898736   44.251393   3473.427
 0.75000   12.990178  469.500560    8.020345
404.204793   44.529956   3252.503
 1.00000   12.990178  494.172344    8.020345
407.622158   46.064902   3016.573
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1123

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -19.224638  -273.415559   -3.991594
-548.871488  -31.531408   -2090.388
 0.25000  -19.224638  -250.811321   -3.991594
-546.098520  -35.966351   -2104.223
 0.50000  -19.224638  -228.785991   -3.991594
-543.583660  -40.896986   -2126.245
 0.75000  -19.224638  -208.332263   -3.991594
-541.327923  -46.423418   -2143.248
 1.00000  -19.224638  -190.207695   -3.991594
-539.304308  -52.773603   -2148.282

 COMB     DB ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.470908  351.485500    6.444008
691.751749   40.311128   3498.530
 0.25000   12.470908  379.728230    6.444008
703.658744   38.276489   3333.769
 0.50000   12.470908  414.931888    6.444008
715.282178   37.879614   3168.290
 0.75000   12.470908  452.623109    6.444008
726.710579   39.767634   3003.912
 1.00000   12.470908  491.694303    6.444008
742.178944   43.040165   2827.514

 COMB     DB ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.590299  -320.015210   -5.230778
-646.094758  -18.242169   -1346.111
 0.25000  -13.590299  -277.301448   -5.230778
-660.923885  -23.071847   -1425.120
 0.50000  -13.590299  -236.574235   -5.230778
-675.364574  -28.037147   -1504.129
 0.75000  -13.590299  -199.244330   -5.230778
-689.537858  -33.133867   -1583.138
 1.00000  -13.590299  -166.376911   -5.230778
-708.830065  -38.310052   -1662.149

 COMB     DL ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.600310  401.607529    8.020345
760.712835   49.693142   3880.843
 0.25000   19.600310  422.597267    8.020345
769.039654   49.947944   3699.827
 0.50000   19.600310  445.614201    8.020345
777.763907   51.552393   3491.602
 0.75000   19.600310  470.702792    8.020345
786.884009   54.634002   3268.768
 1.00000   19.600310  497.730172    8.020345
796.379923   58.910813   3028.251

 COMB     DL ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -19.224638  -298.329972   -6.553099
-703.595723  -31.531408   -2090.388
-737.447591  -46.423418   -2143.230
 1.00000  -19.224638  -270.560456   -6.553099
-714.351980  -35.966351   -2118.554
 0.50000  -19.224638  -243.504536   -6.553099
-725.638919  -40.896986   -2130.887
 0.75000  -19.224638  -218.378133   -6.553099
-737.447591  -46.423418   -2143.230
 1.00000  -19.224638  -196.118758   -6.553099
-749.767877  -52.773603   -2155.616

 COMB     CAR ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.600310  401.607529    8.020345
760.712835   49.693142   3880.843
 0.25000   19.600310  422.597267    8.020345
769.039654   49.947944   3699.827
 0.50000   19.600310  445.614201    8.020345
777.763907   51.552393   3491.602
 0.75000   19.600310  470.702792    8.020345
786.884009   54.634002   3268.768
 1.00000   19.600310  497.730172    8.020345
796.379923   58.910813   3028.251
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1124

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -19.224638  -320.015210   -6.553099
-703.595723  -31.531408   -2090.388
 0.25000  -19.224638  -277.301448   -6.553099
-714.351980  -35.966351   -2118.554
 0.50000  -19.224638  -243.504536   -6.553099
-725.638919  -40.896986   -2130.887
 0.75000  -19.224638  -218.378133   -6.553099
-737.447591  -46.423418   -2143.230
 1.00000  -19.224638  -196.118758   -6.553099
-749.767877  -52.773603   -2155.616

 COMB    DESIGN ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.600310  401.607529    8.020345
760.712835   49.693142   3880.843
 0.25000   19.600310  422.597267    8.020345
769.039654   49.947944   3699.827
 0.50000   19.600310  445.614201    8.020345
777.763907   51.552393   3491.602
 0.75000   19.600310  470.702792    8.020345
786.884009   54.634002   3268.768
 1.00000   19.600310  497.730172    8.020345
796.379923   58.910813   3028.251

 COMB    DESIGN ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -19.224638  -320.015210   -6.553099
-703.595723  -31.531408   -2090.388
 0.25000  -19.224638  -277.301448   -6.553099
-714.351980  -35.966351   -2118.554
 0.50000  -19.224638  -243.504536   -6.553099
-725.638919  -40.896986   -2130.887
 0.75000  -19.224638  -218.378133   -6.553099
-737.447591  -46.423418   -2143.230
 1.00000  -19.224638  -196.118758   -6.553099
-749.767877  -52.773603   -2155.616

 ELEM      82 ================== LENGTH
=    4.958328

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.007869  108.380834    0.713239
495.118017   15.350359  756.003099
 0.25000    5.007869  108.929470    0.713239
496.362331   15.701472  649.473518
 0.50000    5.007869  109.536459    0.713239
497.596292   18.018610  549.324576
 0.75000    5.007869  110.183453    0.713239
498.828485   20.593970  459.234683
 1.00000    5.007869  110.861396    0.713239
500.499634   23.529248  381.714722

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.848778  -26.257410   -3.248158
-67.930649   -2.531862  -631.033347
 0.25000   -4.848778  -25.598786   -3.248158
-66.265627   -3.393434  -658.142923
 0.50000   -4.848778  -24.974465   -3.248158
-65.042964   -4.263201  -685.253669
 0.75000   -4.848778  -24.401934   -3.248158
-63.837010   -5.138401  -712.364414
 1.00000   -4.848778  -23.897529   -3.248158
-62.641921   -6.013602  -739.476462

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.503484  241.350506    3.268910
816.223995   18.839210   1675.004
 0.25000    7.503484  246.836223    3.268910
827.420088   19.984726   1468.890
 0.50000    7.503484  252.905478    3.268910
838.524046   22.190343   1283.517
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1125

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000    7.503484  259.374461    3.268910
849.612544   25.215145   1129.770
 1.00000    7.503484  266.050489    3.268910
864.647533   28.249577   1000.735

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.330983  -84.851167   -3.341256
-177.572830   -2.955081   -1125.396
 0.25000   -9.330983  -78.268297   -3.341256
-162.597332   -26.521806   -1178.604
 0.50000   -9.330983  -72.026408   -3.341256
-151.604548   -30.051050   -1231.825
 0.75000   -9.330983  -66.302166   -3.341256
-140.769505   -34.385756   -1285.046
 1.00000   -9.330983  -61.256681   -3.341256
-130.020423   -38.320747   -1338.279

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.926022  390.136905    5.262006
666.613957   33.702970   2587.539
 0.25000   11.926022  421.998579    5.262006
663.602137   32.659543   2395.307
 0.50000   11.926022  457.256285    5.262006
661.582155   32.671812   2181.274
 0.75000   11.926022  494.820275    5.262006
659.953115   33.713449   1948.165
 1.00000   11.926022  533.458561    5.262006
657.930701   35.767878   1691.403

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.134869  -262.047629   -3.433458
-91.039666   -24.124800   -1509.548
 0.25000  -13.134869  -223.949229   -3.433458
-91.039666   -28.194979   -1584.589
 0.50000  -13.134869  -187.724997   -3.433458
-91.039666   -32.682726   -1659.743
 0.75000  -13.134869  -154.497143   -3.433458
-91.039666   -37.188314   -1734.897
 1.00000  -13.134869  -125.109183   -3.433458
-91.039666   -41.696087   -1810.051

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.056735  415.213123    5.053297
595.838677   38.271551   2816.545
 0.25000   12.056735  441.415834    5.053297
595.125605   38.637469   2565.032
 0.50000   12.056735  470.409488    5.053297
594.570618   40.088921   2314.266
 0.75000   12.056735  501.302215    5.053297
594.570618   42.379807   2069.514
 1.00000   12.056735  533.074879    5.053297
594.570618   45.495153   1820.281

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.300481  -236.570278   -4.013120
-355.614195   -24.790557   -1662.158
 0.25000  -12.300481  -205.239546   -4.013120
-355.614195   -28.539939   -1744.665
 0.50000  -12.300481  -175.450301   -4.013120
-355.614195   -32.644071   -1827.265
 0.75000  -12.300481  -148.125576   -4.013120
-355.614195   -36.756234   -1909.865
 1.00000  -12.300481  -123.958545   -4.013120
-355.614195   -40.879003   -1992.465

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.509582  182.031954    3.564176
264.586172   9.484676   1186.516
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1126

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000    4.509582  199.431544    3.564176
285.445032   6.997309   1115.691
 0.50000    4.509582  218.682848    3.564176
306.145695   5.066772   1034.935
 0.75000    4.509582  239.198726    3.564176
326.823283   5.276601   947.516280
 1.00000    4.509582  260.342918    3.564176
354.812336   5.486446   845.405332

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.113126  -138.111546   -0.228833
-157.401932   -23.150661   -573.658818
 0.25000   -6.113126  -117.262545   -0.228833
-129.580734   -26.851109   -604.860365
 0.50000   -6.113126   -97.471476   -0.228833
-109.211685   -30.558747   -636.110198
 0.75000   -6.113126   -79.320128   -0.228833
-89.151855   -34.266508   -667.360031
 1.00000   -6.113126   -63.292981   -0.228833
-69.260570   -37.974491   -698.626445

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.654596  354.387339    5.641196
179.438902   30.875538   2313.028
 0.25000    9.654596  389.178028    5.641196
179.438902   28.402809   2181.356
 0.50000    9.654596  427.673712    5.641196
179.438902   27.191151   2027.756
 0.75000    9.654596  468.688382    5.641196
179.438902   26.872445   1857.397
 1.00000    9.654596  510.876862    5.641196
179.438902   27.375295   1655.627

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.545893  -274.633128   -1.579790
-156.222809   -26.452219   -1106.861
 0.25000  -10.545893  -233.034057   -1.579790
-156.222809   -30.724059   -1166.800
 0.50000  -10.545893  -193.481766   -1.579790
-156.222809   -35.049262   -1226.862
 0.75000  -10.545893  -157.201864   -1.579790
-156.222809   -39.374466   -1286.924
 1.00000  -10.545893  -125.114523   -1.579790
-156.222809   -43.717730   -1346.986

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.139493  408.551047    6.066604
536.817512   34.826674   2736.074
 0.25000   11.139493  440.213684    6.066604
536.847883   33.529926   2527.222
 0.50000   11.139493  475.246239    6.066604
536.937308   33.350756   2308.294
 0.75000   11.139493  512.571711    6.066604
537.051939   34.050178   2084.939
 1.00000   11.139493  550.965913    6.066604
537.071255   35.523174   1841.432

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.584623  -266.258673   -2.455295
-186.201823   -32.707013   -1496.849
 0.25000  -11.584623  -228.400819   -2.455295
-186.201823   -37.689944   -1573.899
 0.50000  -11.584623  -192.405914   -2.455295
-186.201823   -42.707862   -1651.061
 0.75000  -11.584623  -159.389511   -2.455295
-186.201823   -47.731870   -1728.222
 1.00000  -11.584623  -130.188515   -2.455295
-186.201823   -52.768240   -1805.384
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1127

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.540741  414.989555    5.534585
474.403837   31.736485   2827.624
 0.25000   10.540741  441.663976    5.534585
474.403837   31.078182   2577.957
 0.50000   10.540741  471.179059    5.534585
474.403837   31.345390   2328.274
 0.75000   10.540741  502.625478    5.534585
474.403837   32.387937   2083.841
 1.00000   10.540741  534.971870    5.534585
474.403837   34.095531   1829.198

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.066611  -237.369492   -2.476916
-448.220070   -32.652710   -1656.714
 0.25000  -11.066611  -205.475007   -2.476916
-448.220070   -37.092324   -1739.619
 0.50000  -11.066611  -175.149811   -2.476916
-448.220070   -41.579855   -1822.618
 0.75000  -11.066611  -147.333593   -2.476916
```

```
-448.220070  -46.069514   -1905.617
 1.00000  -11.066611 -122.731860     -2.476916
-448.220070  -50.575700   -1988.616

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.506260  112.153325    0.980914
 61.291702    5.660598  790.444520
 0.25000    3.506260  112.804598    0.980914
 59.244035    6.042732  679.568151
 0.50000    3.506260  113.528491    0.980914
 57.730590    6.441890  576.277846
 0.75000    3.506260  114.299410    0.980914
 56.235756    6.841048  484.116522
 1.00000    3.506260  115.089488    0.980914
 54.750581    7.240224  405.180275

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.618084  -26.822575    -1.271273
-474.039617  -10.142039  -630.116357
 0.25000   -3.618084  -26.043551    -1.271273
-475.559021   -9.606758  -657.487614
 0.50000   -3.618084  -25.300590    -1.271273
-477.063301  -10.023912  -684.862079
 0.75000   -3.618084  -24.618938    -1.271273
-478.564367  -10.456135  -712.236544
 1.00000   -3.618084  -24.018802    -1.271273
-480.609000  -10.893520  -739.611010

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.020329  245.882770    2.366522
 188.384268   22.616917   1713.023
 0.25000    7.020329  252.852665    2.366522
 169.400363   24.533818   1511.377
 0.50000    7.020329  260.594998    2.366522
 155.362366   27.146307   1328.260
 0.75000    7.020329  268.840785    2.366522
 141.494940   29.775346   1173.249
 1.00000    7.020329  277.295692    2.366522
 127.715667   32.404407   1039.383

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.457408  -94.052391    -2.987827
-758.421424  -14.753053   -1105.917
 0.25000   -6.457408  -85.715744    -2.987827
-772.500183  -15.751049   -1158.213
 0.50000   -6.457408  -77.768324    -2.987827
-786.437048  -16.760084   -1210.544
 0.75000   -6.457408  -70.476943    -2.987827
-800.343387  -17.780538   -1262.874
 1.00000   -6.457408  -64.054079    -2.987827
-819.291744  -18.814571   -1315.204
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                   1128

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.131413  391.049985    4.890657
 107.412580   31.465590   2601.575
 0.25000   11.131413  423.195322    4.890657
 108.017844   29.536100   2409.967
 0.50000   11.131413  458.760595    4.890657
 108.677805   28.519100   2196.822
 0.75000   11.131413  496.654029    4.890657
 109.362339   28.308735   1964.769
 1.00000   11.131413  535.632804    4.890657
 110.078189   28.838570   1708.351

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -10.814820  -263.523260    -2.275055
-599.475696  -23.392349   -1487.054
 0.25000   -10.814820  -225.088964    -2.275055
-599.475696  -26.306510   -1561.112
 0.50000   -10.814820  -188.546155    -2.275055
-599.475696  -29.254185   -1635.282
 0.75000   -10.814820  -155.027488    -2.275055
-599.475696  -32.222976   -1709.452
 1.00000   -10.814820  -125.382234    -2.275055
-599.475696  -35.207721   -1783.623

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.841233  415.065333    6.073884
 387.825354   30.248965   2816.948
 0.25000   10.841233  441.389235    6.073884
 387.825352   28.930910   2565.734
 0.50000   10.841233  470.516176    6.073884
 387.825352   28.553430   2314.549
 0.75000   10.841233  501.549135    6.073884
 387.825352   28.812588   2069.229
 1.00000   10.841233  533.470311    6.073884
 387.825352   29.719744   1818.303

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -12.150652  -236.532221    -2.272996
-542.520397  -37.460864   -1655.459
 0.25000   -12.150652  -205.057003    -2.272996
-542.520397  -42.371292   -1737.856
 0.50000   -12.150652  -175.130483    -2.272996
-542.520397  -47.326571   -1820.345
 0.75000   -12.150652  -147.680022    -2.272996
-542.520397  -52.290287   -1902.834
 1.00000   -12.150652  -123.401776    -2.272996
-542.520397  -57.273968   -1985.323

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.339052  149.244424    0.894767
 606.668736   22.607164   943.837549
 0.25000   13.339052  149.711848    0.894767
 607.790491   27.159982   817.297983
 0.50000   13.339052  150.220680    0.894767
 608.988156   31.949179   729.549284
 0.75000   13.339052  150.754300    0.894767
 610.260676   36.969324   663.592339
 1.00000   13.339052  151.294029    0.894767
 611.609783   42.097079   617.459801

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.513121  -41.141957    -4.622422
-135.346698   -4.499786   -799.988402
 0.25000   -5.513121  -40.883481    -4.622422
-134.157121   -5.226711   -797.079241
 0.50000   -5.513121  -40.239292    -4.622422
-133.049817   -6.138719   -842.939376
 0.75000   -5.513121  -39.826812    -4.622422
-132.022595   -7.105356   -914.159339
 1.00000   -5.513121  -39.461744    -4.622422
-131.074558   -8.100250   -1007.786
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                   1129

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   15.063740  306.066461    4.844648
 954.065990   27.579920   1888.895
 0.25000   15.063740  309.953676    4.844648
 962.095185   30.358316   1651.261
 0.50000   15.063740  314.185232    4.844648
 970.630906   34.427907   1489.439
 0.75000   15.063740  318.622348    4.844648
 979.718517   39.154076   1379.646
 1.00000   15.063740  323.111139    4.844648
 989.344388   44.130786   1311.966

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.522681  -106.741583    -4.592735
-265.368652  -31.853965   -1420.690
 0.25000  -14.522681  -102.928267    -4.592735
-256.891030  -36.262594   -1422.382
 0.50000  -14.522681  -99.234227    -4.592735
-249.001395  -41.435955   -1517.834
 0.75000  -14.522681  -95.803690    -4.592735
-241.687705  -46.998314   -1661.409
 1.00000  -14.522681  -92.765476    -4.592735
-234.945960  -52.696049   -1846.093

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   18.549278  459.038887    6.910087
 817.649034   44.440266   2794.178
 0.25000   18.549278  485.231341    6.910087
 812.498505   45.334762   2534.399
 0.50000   18.549278  513.743305    6.910087
 807.677402   47.605909   2340.868
 0.75000   18.549278  543.636954    6.910087
 803.177190   50.896419   2197.499
 1.00000   18.549278  573.887320    6.910087
 798.990574   55.089007   2029.279

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -17.511182  -256.779573    -4.892566
-195.590141  -35.667393   -1922.815
 0.25000  -17.511182  -231.075270    -4.892566
-199.516850  -40.630012   -1931.557
 0.50000  -17.511182  -206.137147    -4.892566
-203.768233  -46.369086   -2072.222
 0.75000  -17.511182  -183.017307    -4.892566
-208.352763  -52.544287   -2284.068
 1.00000  -17.511182  -162.535566    -4.892566
-213.278937  -59.149457   -2554.472

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.236314  491.418070    6.590321
 749.937560   51.961788   3023.159
 0.25000   19.236314  512.971515    6.590321
 746.334946   54.228491   2715.083
 0.50000   19.236314  536.433550    6.590321
 742.960708   57.732101   2489.616
 0.75000   19.236314  561.039463    6.590321
 739.807802   62.182138   2313.336
 1.00000   19.236314  585.934155    6.590321
 736.870901   67.408617   2174.698

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -16.176994  -243.461690    -5.587565
-463.483338  -34.587559   -2092.406
 0.25000  -16.176994  -222.308404    -5.587565
-466.122450  -39.216985   -2100.613
 0.50000  -16.176994  -201.785688    -5.587565
-468.988381  -44.579162   -2250.075
 0.75000  -16.176994  -182.759300    -5.587565
-472.087631  -50.404563   -2476.980
 1.00000  -16.176994  -165.903009    -5.587565
-475.427363  -56.619774   -2767.320
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                   1130

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.250451  197.151656    5.195104
 274.197535   11.859016   1166.108
 0.25000    4.250451  211.814953    5.195104
 294.528261    9.532832   1074.164
 0.50000    4.250451  227.773122    5.195104
 316.219471    7.890779   1004.087
 0.75000    4.250451  244.494749    5.195104
 339.259595    7.395098   944.652610
 1.00000    4.250451  261.433853    5.195104
 363.583748    7.443757   888.687356

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.629730  -130.720041    -0.373775
-173.200417  -31.469513  -714.492227
 0.25000  -11.629730  -116.335521    -0.373775
-151.858122  -36.091737  -722.042927
 0.50000  -11.629730  -102.394218    -0.373775
-131.992812  -41.082880  -782.726018
 0.75000  -11.629730  -89.457113    -0.373775
-113.570918  -46.462159  -872.019872
 1.00000  -11.629730  -77.999483    -0.373775
-96.609053  -52.179925  -984.155680

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.768360  386.015065    7.198549
 207.273020   38.525089   2295.922
 0.25000   10.768360  415.310882    7.198549
 207.273020   36.237635   2118.511
 0.50000   10.768360  447.197608    7.198549
 207.273020   35.235633   1980.847
 0.75000   10.768360  480.627168    7.198549
 207.273020   35.146049   1863.196
 1.00000   10.768360  514.455752    7.198549
 207.273020   35.935242   1751.319

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.608474  -259.363806    -2.011690
-181.296409  -35.547634   -1392.461
 0.25000  -14.608474  -230.619191    -2.011690
-181.296409  -40.704542   -1406.379
 0.50000  -14.608474  -202.732955    -2.011690
-181.296409  -46.272620   -1522.120
 0.75000  -14.608474  -176.879803    -2.011690
-181.296409  -52.307708   -1694.873
 1.00000  -14.608474  -153.969959    -2.011690
-181.296409  -58.831664   -1912.604

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.428444  468.319423    7.549681
633.919666   45.139956   2853.185
 0.25000   14.428444  495.073415    7.549681
634.654924   44.551101   2592.189
 0.50000   14.428444  524.193049    7.549681
635.383126   44.436308   2396.345
 0.75000   14.428444  554.721644    7.549681
636.096101   46.060154   2236.036
 1.00000   14.428444  585.614663    7.549681
636.786213   48.074324   2098.878

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -16.423238  -264.024074    -3.070926
-258.849002  -44.242488   -1970.706
 0.25000  -16.423238  -237.774169    -3.070926
-258.849064  -50.138404   -2000.511
 0.50000  -16.423238  -212.308206    -3.070926
-258.849064  -56.354609   -2169.015
 0.75000  -16.423238  -188.698847    -3.070926
-258.849064  -62.979052   -2379.688
 1.00000  -16.423238  -167.775900    -3.070926
-258.849064  -70.039382   -2644.313
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                   1131

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.678490  489.527498    6.957393
 589.343289   43.558445   3028.406
 0.25000   13.678490  512.149515    6.957393
 589.343289   43.891594   2727.289
 0.50000   13.678490  536.772212    6.957393
 589.343289   45.267142   2501.967
 0.75000   13.678490  562.586275    6.957393
 589.343289   47.525064   2321.633
 1.00000   13.678490  588.708462    6.957393
 589.343289   50.499222   2175.744

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -15.945440  -244.716140    -3.624296
-557.780975  -42.827850   -2155.739
 0.25000  -15.945440  -222.519762    -3.624296
-557.780975  -48.049046   -2179.621
 0.50000  -15.945440  -200.986209    -3.624296
-557.780975  -53.827024   -2349.177
 0.75000  -15.945440  -181.022644    -3.624296
-557.780975  -60.048498   -2572.220
 1.00000  -15.945440  -163.331779    -3.624296
-557.780975  -66.659991   -2855.239

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.555153  152.136682    1.384932
 111.615204   8.380296  965.283626
 0.25000    3.555153  152.703908    1.384932
 110.118764   8.859789  836.400341
 0.50000    3.555153  153.323973    1.384932
 108.724642   9.848138  742.979267
 0.75000    3.555153  153.974081    1.384932
 107.429178   11.099352  672.304844
 1.00000    3.555153  154.631664    1.384932
 106.234731   12.417978  623.249451

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.685369  -41.141501    -1.985110
-568.367586  -16.773256  -797.992658
 0.25000   -6.685369  -40.582070    -1.985110
-569.740817  -16.036430  -796.136817
 0.50000   -6.685369  -40.039273    -1.985110
-571.209654  -16.379213  -838.015712
 0.75000   -6.685369  -39.536209    -1.985110
-572.773790  -17.111585  -907.821322
 1.00000   -6.685369  -39.092833    -1.985110
-574.433873  -17.918070   -1001.030

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.016984  305.892835    2.928383
 243.475975   26.462668   1922.520
 0.25000   10.016984  311.032248    2.928383
 232.286709   34.674027   1669.786
 0.50000   10.016984  316.646014    2.928383
 221.724811   37.700986   1504.370
 0.75000   10.016984  322.530505    2.928383
 211.912385   41.114290   1389.916
 1.00000   10.016984  328.486791    2.928383
 202.863000   44.641414   1316.790

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.293309  -112.150659    -4.061892
-864.829286  -21.010058   -1409.363
 0.25000   -9.293309  -107.087120    -4.061892
-875.202765  -21.716729   -1413.703
 0.50000   -9.293309  -102.173257    -4.061892
-886.300690  -23.047084   -1505.766
 0.75000   -9.293309  -97.619071    -4.061892
-898.119452  -24.767202   -1642.748
 1.00000   -9.293309  -93.602089    -4.061892
-910.665871  -26.607316   -1820.876
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                   1132

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.450107  452.122045    6.160050
 191.929368   40.602210   2760.172
 0.25000   12.450107  478.628933    6.160050
 196.259547   39.671264   2506.626
 0.50000   12.450107  507.467795    6.160050
 200.831686   39.770643   2312.304
 0.75000   12.450107  537.702092    6.160050
 205.635464   40.889016   2145.704
 1.00000   12.450107  568.297366    6.160050
 210.664719   42.810210   1998.015

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -15.488595  -255.469779    -3.560797
-728.845625  -34.518224   -1870.314
 0.25000  -15.488595  -229.472818    -3.560797
-725.134386  -37.543666   -1879.200
 0.50000  -15.488595  -204.254883    -3.560797
-721.694835  -41.262222   -2010.898
 0.75000  -15.488595  -180.874234    -3.560797
-718.529650  -45.534760   -2215.604
 1.00000  -15.488595  -160.148599    -3.560797
-715.647608  -50.254428   -2478.843

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.555731  490.403309    7.727478
503.217824   40.743501   3017.659
 0.25000   12.555731  512.190587    7.727478
506.123884   40.129451   2710.770
 0.50000   12.555731  535.895899    7.727478
509.185523   40.685615   2483.995
 0.75000   12.555731  560.748228    7.727478
512.394111   42.171766   2305.264
 1.00000   12.555731  585.897280    7.727478
515.739153   44.334157   2164.128

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.887961  -242.931105    -3.454808
-686.013966  -50.752901   -2148.517
 0.25000  -18.887961  -221.562608    -3.454808
-683.665061  -56.236429   -2164.159
 0.50000  -18.887961  -200.832438    -3.454808
-681.490603  -62.439105   -2311.824
 0.75000  -18.887961  -181.613532    -3.454808
-679.495976  -69.186123   -2534.596
 1.00000  -18.887961  -164.578059    -3.454808
-677.925431   -76.315062   -2818.770

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.056735  415.213123    6.073884
 816.223995   38.271551   2827.624
 0.25000   12.056735  441.663976    6.073884
 827.400088   38.637469   2577.357
 0.50000   12.056735  475.246239    6.073884
 838.524046   40.088921   2328.274
 0.75000   12.056735  512.571711    6.073884
 849.612544   42.379807   2084.939
 1.00000   12.056735  550.965913    6.073884
 864.647533   45.495153   1841.432

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.134869  -274.633128    -4.013120
-758.421424  -37.468864   -1662.158
 0.25000  -13.134869  -233.034057    -4.013120
-772.500183  -42.371292   -1744.665
 0.50000  -13.134869  -193.481766    -4.013120
-786.437048  -47.326571   -1827.265
 0.75000  -13.134869  -159.389511    -4.013120
-800.343387  -52.290287   -1909.865
 1.00000  -13.134869  -130.188622    -4.013120
-819.291744  -57.273968   -1992.465
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                   1133

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.236314  491.418070    7.727478
 954.065990   51.961788   3028.406
 0.25000   19.236314  512.971515    7.727478
 962.095185   54.228491   2727.289
 0.50000   19.236314  536.772212    7.727478
 970.630906   57.732101   2501.967
 0.75000   19.236314  562.586275    7.727478
 979.718517   62.182138   2321.633
 1.00000   19.236314  588.708462    7.727478
 989.344388   67.408617   2175.744

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.887961  -264.024074    -5.587565
-864.829286  -50.752901   -2155.739
 0.25000  -18.887961  -237.774169    -5.587565
-875.202765  -56.236429   -2179.621
 0.50000  -18.887961  -212.308206    -5.587565
-886.300690  -62.439105   -2349.177
 0.75000  -18.887961  -188.698847    -5.587565
-898.119452  -69.186123   -2572.220
 1.00000  -18.887961  -167.775900    -5.587565
-910.665871  -76.315062   -2855.239

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.236314  491.418070    7.727478
 954.065990   51.961788   3028.406
 0.25000   19.236314  512.971515    7.727478
 962.095185   54.228491   2727.289
 0.50000   19.236314  536.772212    7.727478
 970.630906   57.732101   2501.967
 0.75000   19.236314  562.586275    7.727478
 979.718517   62.182138   2321.633
 1.00000   19.236314  588.708462    7.727478
 989.344388   67.408617   2175.744

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.887961  -274.633128    -5.587565
-864.829286  -50.752901   -2155.739
 0.25000  -18.887961  -237.774169    -5.587565
-875.202765  -56.236429   -2179.621
 0.50000  -18.887961  -212.308206    -5.587565
-886.300690  -62.439105   -2349.177
 0.75000  -18.887961  -188.698847    -5.587565
-898.119452  -69.186123   -2572.220
 1.00000  -18.887961  -167.775900    -5.587565
-910.665871  -76.315062   -2855.239

 COMB      DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.236314  491.418070    7.727478
 954.065990   51.961788   3028.406
 0.25000   19.236314  512.971515    7.727478
 962.095185   54.228491   2727.289
 0.50000   19.236314  536.772212    7.727478
 970.630906   57.732101   2501.967
 0.75000   19.236314  562.586275    7.727478
 979.718517   62.182138   2321.633
 1.00000   19.236314  588.708462    7.727478
 989.344388   67.408617   2175.744

 COMB      DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.887961  -274.633128    -5.587565
-864.829286  -50.752901   -2155.739
 0.25000  -18.887961  -237.774169    -5.587565
-875.202765  -56.236429   -2179.621
 0.50000  -18.887961  -212.308206    -5.587565
-886.300690  -62.439105   -2349.177
 0.75000  -18.887961  -188.698847    -5.587565
-898.119452  -69.186123   -2572.220
 1.00000  -18.887961  -167.775900    -5.587565
-910.665871  -76.315062   -2855.239
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                   1134

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        83 ================== LENGTH
=     4.957662

 COMB DB-G1-1 ------------------- MAX
```

```
  REL DIST          P          V2          V3
       T          M2          M3
 0.00000   5.069240  116.911406    3.331147
502.275926  20.281456  380.193505
 0.25000   5.069240  117.484703    3.331147
503.524367  17.330342  280.501334
 0.50000   5.069240  118.114148    3.331147
504.752742  14.458356  288.271758
 0.75000   5.069240  118.781585    3.331147
505.970782  11.743009  295.271718
 1.00000   5.069240  119.468988    3.331147
507.625707   9.521951  302.130336

 COMB DB-G1-1 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  -4.687658  -25.449931   -0.644052
-184.652903   -3.311749  -739.017579
 0.25000  -4.687658  -24.808535   -0.644052
-183.018269   -3.116802  -755.355942
 0.50000  -4.687658  -24.200448   -0.644052
-181.778860   -4.127271  -771.768937
 0.75000  -4.687658  -23.646229   -0.644052
-180.574195   -6.187000  -788.813317
 1.00000  -4.687658  -23.237378   -0.644052
-179.542429   -8.657803  -806.081510

 COMB DB-G1-2 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000   7.390478  278.622458    2.850605
832.675922  24.119065  998.525054
 0.25000   7.390478  284.357357    2.850605
843.898364  21.286623  757.539918
 0.50000   7.390478  290.653704    2.850605
854.940060  18.586576  655.753299
 0.75000   7.390478  297.329611    2.850605
865.888154  16.791555  586.666671
 1.00000   7.390478  304.203134    2.850605
880.763809  23.963858  552.293716

 COMB DB-G1-2 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  -9.220821  -66.043357   -9.165141
-327.714003  -35.315879  -1337.609
 0.25000  -9.220821  -59.632697   -9.165141
-313.023199  -25.308366  -1390.291
 0.50000  -9.220821  -53.549148   -9.165141
-301.889385  -18.435811  -1443.426
 0.75000  -9.220821  -48.004406   -9.165141
-291.065948  -16.234967  -1497.017
 1.00000  -9.220821  -43.927818   -9.165141
-281.795397  -17.199442  -1551.547

 COMB DB-G1-3 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  11.562974  463.828847    4.275357
678.427505  30.983368  1689.716
 0.25000  11.562974  497.277735    4.275357
676.258720  26.661081  1411.497
 0.50000  11.562974  533.992623    4.275357
674.146379  22.616085  1216.177
 0.75000  11.562974  572.894333    4.275357
672.548409  20.199871  1002.572
 1.00000  11.562974  612.836962    4.275357
672.548409  23.294921  797.517508

 COMB DB-G1-3 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -12.702112 -198.255352   -5.876966
-226.302023  -38.104520  -1809.542
 0.25000 -12.702112 -161.155009   -5.876966
-226.302023  -32.964053  -1900.818
 0.50000 -12.702112 -125.636246   -5.876966
-226.302023  -29.796897  -1993.356
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1135

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  REL DIST          P          V2          V3
       T          M2          M3
 0.75000 -12.702112  -93.257097   -5.876966
-226.302023  -29.593081  -2087.605
 1.00000 -12.702112  -70.195786   -5.876966
-227.666380  -31.355537  -2183.710

 COMB DB-G1-4 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  11.787214  494.582502    8.327175
652.419264  41.539724  1819.599
 0.25000  11.787214  522.088748    8.327175
652.371829  32.332656  1475.423
 0.50000  11.787214  552.279028    8.327175
652.371829  24.487420  1230.312
 0.75000  11.787214  584.268153    8.327175
652.371829  21.106491  1031.007
 1.00000  11.787214  617.113537    8.327175
652.371829  23.652667  856.573379

 COMB DB-G1-4 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -11.916057 -178.452515   -5.358310
-473.901388  -37.406032  -1992.313
 0.25000 -11.916057 -147.944565   -5.358310
-473.901388  -32.978426  -2091.794
 0.50000 -11.916057 -118.738122   -5.358310
-473.901388  -30.460604  -2192.449
 0.75000 -11.916057  -92.110070   -5.358310
-473.901388  -31.434234  -2294.559
 1.00000 -11.916057  -73.140746   -5.358310
-473.901388  -35.549319  -2398.286

 COMB DB-G2-1 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000   4.275207  223.483231    0.153458
273.515801   5.206854  844.840784
 0.25000   4.275207  241.703714    0.153458
294.279803   5.489374  719.707180
 0.50000   4.275207  261.705470    0.153458
314.712478   5.776160  582.013180
 0.75000   4.275207  282.907320    0.153458
334.957900   6.829932  437.610246
 1.00000   4.275207  304.712259    0.153458
362.475534  16.597598  315.685051

 COMB DB-G2-1 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  -5.978965  -99.477704   -9.498416
-166.502510  -37.883282  -698.502164
 0.25000  -5.978965  -79.174413   -9.498416
-139.359013  -28.391458  -746.380673
 0.50000  -5.978965  -59.838799   -9.498416
-118.853313  -19.753097  -794.960083
 0.75000  -5.978965  -42.214403   -9.498416
-98.896562  -14.721922  -844.446556
 1.00000  -5.978965  -29.418830   -9.498416
-81.795902  -12.169234  -894.686092

 COMB DB-G2-2 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000   9.276278  436.284579    5.741582
194.509308  26.102745  1655.699
 0.25000   9.276278  472.805405    5.741582
194.509308  19.955862  1416.377
 0.50000   9.276278  512.889286    5.741582
194.509308  14.223284  1149.557
 0.75000   9.276278  555.361738    5.741582
194.509308  12.248042  863.901320
 1.00000   9.276278  598.971168    5.741582
194.509308  17.900270  613.046416

 COMB DB-G2-2 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -10.188267 -196.831640   -6.349471
-170.345687  -42.174781  -1347.073
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1136

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  REL DIST          P          V2          V3
       T          M2          M3
 0.25000 -10.188267 -156.325731   -6.349471
-170.345687  -36.828682  -1439.780
 0.50000 -10.188267 -117.548197   -6.349471
-170.345687  -31.526615  -1533.933
 0.75000 -10.188267  -82.192840   -6.349471
-170.345687  -29.971138  -1629.946
 1.00000 -10.188267  -57.004883   -6.349471
-170.345687  -31.772724  -1727.503

 COMB DB-G2-3 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  10.734899  494.071798    6.329825
556.414854  31.560832  1840.413
 0.25000  10.734899  527.307202    6.329825
556.414852  25.017118  1525.670
 0.50000  10.734899  563.783372    6.329825
556.414852  18.996251  1253.392
 0.75000  10.734899  602.433790    6.329825
556.414852  16.762215  1010.087
 1.00000  10.734899  642.119181    6.329825
556.414852  21.035551  792.655735

 COMB DB-G2-3 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -11.180625 -197.085585   -9.104620
-285.740098  -52.019281  -1805.123
 0.25000 -11.180625 -160.218527   -9.104620
-285.740098  -42.415103  -1908.643
 0.50000 -11.180625 -124.931408   -9.104620
-285.740098  -33.328436  -2013.625
 0.75000 -11.180625  -92.155523   -9.104620
-285.740098  -32.352527  -2120.282
 1.00000 -11.180625  -69.827783   -9.104620
-285.740098  -35.586690  -2228.328

 COMB DB-G2-4 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  10.125725  495.588742    6.661653
559.317854  30.943617  1829.261
 0.25000  10.125725  523.589679    6.661653
559.317854  24.101512  1483.760
 0.50000  10.125725  554.322451    6.661653
559.317854  19.594406  1219.098
 0.75000  10.125725  586.886568    6.661653
559.317854  17.923919  1027.601
 1.00000  10.125725  620.322418    6.661653
559.317854  21.453084  853.720020

 COMB DB-G2-4 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -10.663459 -180.315734   -8.337887
-536.717631  -49.495464  -1988.705
 0.25000 -10.663459 -149.259388   -8.337887
-536.717631  -40.649092  -2090.179
 0.50000 -10.663459 -119.528207   -8.337887
-536.717631  -32.178612  -2193.007
 0.75000 -10.663459  -92.420849   -8.337887
-536.717631  -30.356213  -2297.237
 1.00000 -10.663459  -73.108953   -8.337887
-536.717631  -31.904382  -2402.617

 COMB DB-G3-1 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000   3.334422  120.885946    0.466136
163.338865   6.944809  406.748266
 0.25000   3.334422  121.572902    0.466136
161.299143   6.485718  294.658663
 0.50000   3.334422  122.329751    0.466136
159.742028   6.056722  284.109883
 0.75000   3.334422  123.131121    0.466136
158.232655   6.801181  289.881971
 1.00000   3.334422  123.951457    0.466136
156.941926   9.657082  295.350465
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1137

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  -3.447667  -25.499584   -2.765415
-482.797205  -10.242537  -740.092654
 0.25000  -3.447667  -24.738348   -2.765415
-484.347857   -8.223500  -755.994364
 0.50000  -3.447667  -24.005159   -2.765415
-485.874167   -6.282962  -772.116185
 0.75000  -3.447667  -23.336653   -2.765415
-487.389112   -4.471567  -788.338188
 1.00000  -3.447667  -22.879195   -2.765415
-489.446473   -2.931084  -805.144647

 COMB DB-G3-2 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000   6.805836  285.062193    7.409257
313.174978  32.143195  1041.662
 0.25000   6.805836  292.409179    7.409257
294.250220  23.385672  799.923099
 0.50000   6.805836  300.499516    7.409257
279.804568  15.213397  671.360524
 0.75000   6.805836  309.066597    7.409257
265.792238  11.126710  592.083334
 1.00000   6.805836  317.839831    7.409257
253.812993  14.029617  539.428942

 COMB DB-G3-2 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  -6.157832  -71.341999   -2.896106
-773.852325  -17.557435  -1315.937
 0.25000  -6.157832  -63.201512   -2.896106
-788.239059  -15.961001  -1367.525
 0.50000  -6.157832  -55.365522   -2.896106
-802.400521  -15.069467  -1419.815
 0.75000  -6.157832  -48.221047   -2.896106
-816.457570  -15.684503  -1472.561
 1.00000  -6.157832  -43.304792   -2.896106
-835.546675  -18.661182  -1525.957

 COMB DB-G3-3 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  10.672629  465.277508    5.071439
224.293789  27.385923  1710.216
 0.25000  10.672629  499.018335    5.071439
224.298532  22.084754  1429.685
 0.50000  10.672629  536.047995    5.071439
224.302243  17.161097  1210.705
 0.75000  10.672629  575.285352    5.071439
224.321595  15.415427  992.281364
 1.00000  10.672629  615.573613    5.071439
224.321595  18.284404  779.862527

 COMB DB-G3-3 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -10.305853 -198.304767   -3.559577
-611.370124  -33.548857  -1784.259
 0.25000 -10.305853 -160.876140   -3.559577
-611.370124  -31.259988  -1873.950
 0.50000 -10.305853 -125.057768   -3.559577
-611.370124  -29.291930  -1965.077
 0.75000 -10.305853  -92.400465   -3.559577
-611.370124  -28.250466  -2057.849
 1.00000 -10.305853  -69.107453   -3.559577
-611.370124  -28.585739  -2152.133

 COMB DB-G3-4 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  10.400086  493.810929    4.785322
493.431022  26.934152  1819.083
 0.25000  10.400086  521.443642    4.785322
493.431022  22.397397  1475.054
 0.50000  10.400086  551.771999    4.785322
493.431022  18.012725  1222.371
 0.75000  10.400086  583.907703    4.785322
493.431022  16.781670  1024.578
 1.00000  10.400086  616.903719    4.785322
493.431022  24.539974  849.961581
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1138

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -11.775790 -178.558638  -10.364437
-606.959422  -56.017866  -1985.614
 0.25000 -11.775790 -147.910854  -10.364437
-606.959422  -45.222578  -2084.217
 0.50000 -11.775790 -118.570950  -10.364437
-606.959422  -34.850970  -2184.077
 0.75000 -11.775790  -91.819834  -10.364437
-606.959422  -29.723229  -2285.334
 1.00000 -11.775790  -72.761100  -10.364437
-606.959422  -30.024979  -2387.917

 COMB DL-G1-1 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  13.352295  156.269565    7.014354
643.499930  37.927925  616.050679
 0.25000  13.352295  156.779823    7.014354
644.647080  31.096802  562.057984
 0.50000  13.352295  157.331900    7.014354
645.855913  24.931674  549.494687
 0.75000  13.352295  157.908666    7.014354
647.125947  19.645768  557.793802
 1.00000  13.352295  158.491720    7.014354
648.463738  15.751389  579.670520

 COMB DL-G1-1 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  -5.357573  -44.356099   -0.878071
-276.727233   -4.508945  -1008.321
 0.25000  -5.357573  -43.924538   -0.878071
-275.530641   -4.864093  -1102.006
 0.50000  -5.357573  -43.508630   -0.878071
-274.429467   -6.319468  -1215.500
 0.75000  -5.357573  -43.125365   -0.878071
-273.419960   -8.894067  -1348.635
 1.00000  -5.357573  -42.791703   -0.878071
-272.501314  -12.809824  -1498.752

 COMB DL-G1-2 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  14.911442  360.669841    5.700693
1025.746  38.727392  1309.993
 0.25000  14.911442  364.916146    5.700693
 1033.928  33.884284  1177.179
 0.50000  14.911442  369.509139    5.700693
 1042.559  29.875955  1105.456
 0.75000  14.911442  374.308072    5.700693
 1051.634  28.523421  1089.944
 1.00000  14.911442  379.159480    5.700693
 1061.136  34.049919  1111.532

 COMB DL-G1-2 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -14.418722  -91.983700   -11.020369
-451.853043  -49.153278  -1846.961
 0.25000 -14.418722  -88.395035   -11.020369
-443.332956  -38.068259  -2068.819
 0.50000 -14.418722  -84.934809   -11.020369
-435.492055  -28.748039  -2329.641
 0.75000 -14.418722  -81.749121   -11.020369
-428.313005  -23.199687  -2618.562
 1.00000 -14.418722  -78.972125   -11.020369
-421.774102  -23.971504  -2967.743

 COMB DL-G1-3 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  18.165011  570.169684    7.002033
877.379456  49.616176  2027.689
 0.25000  18.165011  598.882323    7.002033
871.892523  43.849376  1887.818
 0.50000  18.165011  629.952812    7.002033
866.798998  38.908964  1780.550
 0.75000  18.165011  662.406769    7.002033
862.104894  35.821613  1702.541
 1.00000  18.165011  695.187646    7.002033
857.813534  37.842897  1644.742
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1139

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -17.135185  -212.939365   -7.691547
-358.132167  -31.110993  -2555.158
 0.25000 -17.135185  -188.701921   -7.691547
-362.464342  -49.945422  -2910.572
 0.50000 -17.135185  -165.359333   -7.691547
-367.129150  -45.168642  -3319.790
 0.75000 -17.135185  -143.873023   -7.691547
-372.114012  -43.535401  -3784.933
 1.00000 -17.135185  -125.148828   -7.691547
-377.405592  -45.214252  -4312.827

 COMB DL-G1-4 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  18.942884  612.461565   11.033265
855.721645  62.170779  2174.007
 0.25000  18.942884  636.090680   11.033265
851.848017  51.560721  1994.426
 0.50000  18.942884  661.659091   11.033265
848.248693  42.670696  1858.969
 0.75000  18.942884  688.366034   11.033265
844.928890  37.688084  1784.620
 1.00000  18.942884  715.341503   11.033265
841.892676  39.505579  1746.628

 COMB DL-G1-4 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -15.820056 -200.829897   -7.041567
-624.241351  -53.601525  -2767.592
 0.25000 -15.820056 -180.888904   -7.041567
-627.198448  -48.383414  -3147.966
 0.50000 -15.820056 -161.674366   -7.041567
-630.394647  -44.822816  -3588.065
 0.75000 -15.820056 -143.992373   -7.041567
-633.819690  -45.499327  -4089.737
 1.00000 -15.820056 -128.582485   -7.041567
-637.463862  -51.768724  -4659.476

 COMB DL-G2-1 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000   4.016829  261.650892    0.182196
303.094334   7.116231  888.293962
 0.25000   4.016829  277.679895    0.182196
323.812225   7.670232  828.185634
 0.50000   4.016829  295.023021    0.182196
345.631542   8.568664  768.569073
 0.75000   4.016829  313.137400    0.182196
368.599575  11.685455  716.890183
 1.00000   4.016829  331.459462    0.182196
392.636313  20.135181  674.037016

 COMB DL-G2-1 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -11.562992 -101.276651  -10.997888
-196.305368  -53.137085  -984.430052
 0.25000 -11.562992  -87.734892  -10.997888
-175.505030  -41.315716  -1148.736
 0.50000 -11.562992  -74.677653  -10.997888
-155.817908  -30.157600  -1334.523
 0.75000 -11.562992  -62.662654  -10.997888
-137.795027  -22.129908  -1542.865
 1.00000 -11.562992  -52.186370  -10.997888
-121.399176  -17.470533  -1780.105

 COMB DL-G2-2 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  10.380734  514.419754    6.014908
239.635357  34.824779  1751.359
 0.25000  10.380734  546.528018    6.014908
239.635357  29.195537  1632.657
 0.50000  10.380734  581.264958    6.014908
239.635357  24.552873  1513.801
 0.75000  10.380734  617.554810    6.014908
239.635357  22.614705  1408.941
 1.00000  10.380734  654.194902    6.014908
239.635357  27.016443  1320.469
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1140

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -14.298084 -199.610251   -7.133130
-208.160899  -59.613810  -1912.620
 0.25000 -14.298084 -172.515430   -7.133130
-208.160899  -52.890821  -2233.772
 0.50000 -14.298084 -146.407203   -7.133130
-208.160899  -46.825486  -2597.416
 0.75000 -14.298084 -122.383268   -7.133130
-208.160899  -44.334491  -3005.644
 1.00000 -14.298084 -101.437098   -7.133130
-208.160899  -46.434728  -3470.870

 COMB DL-G2-3 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  14.067602  601.422641    7.210357
697.037144  43.024858  2097.908
 0.25000  14.067602  630.744472    7.210357
698.376989  37.478600  1939.914
 0.50000  14.067602  662.465118    7.210357
699.001833  33.058727  1801.430
 0.75000  14.067602  695.598623    7.210357
699.626678  31.329524  1710.598
 1.00000  14.067602  729.091754    7.210357
700.251523  36.875165  1645.454

 COMB DL-G2-3 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -16.148836 -212.070080   -10.093489
-387.372083  -68.344272  -2644.384
 0.25000 -16.148836 -187.327109   -10.093489
-387.372083  -59.324977  -3007.894
 0.50000 -16.148836 -163.484969   -10.093489
-387.372083  -51.008101  -3423.869
 0.75000 -16.148836 -141.546208   -10.093489
-387.372083  -47.332890  -3895.004
 1.00000 -16.148836 -122.416566   -10.093489
-387.372083  -50.765990  -4430.154

 COMB DL-G2-4 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000  13.319517  613.673813    7.237392
722.538834  45.312571  2175.784
 0.25000  13.319517  638.467580    7.237392
722.538834  39.389226  1999.826
 0.50000  13.319517  665.291192    7.237392
722.538834  35.293787  1857.378
 0.75000  13.319517  693.309473    7.237392
722.538834  33.855743  1778.652
 1.00000  13.319517  721.607164    7.237392
722.538834  39.006869  1734.600

 COMB DL-G2-4 ------------------- MIN

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000 -15.676709 -202.552065   -9.604846
-689.501539  -64.564114  -2854.951
 0.25000 -15.676709 -181.629641   -9.604846
-689.501539  -55.815528  -3227.001
 0.50000 -15.676709 -161.469059   -9.604846
-689.501539  -47.701891  -3656.817
 0.75000 -15.676709 -142.917951   -9.604846
-689.501539  -43.938783  -4147.161
 1.00000 -15.676709 -126.743471   -9.604846
-689.501539  -46.737698  -4703.573

 COMB DL-G3-1 ------------------- MAX

  REL DIST          P          V2          V3
       T          M2          M3
 0.00000   3.382504  159.239107    0.581011
237.831330  10.889173  624.637705
 0.25000   3.382504  159.863661    0.581011
236.314358  11.121743  564.716998
 0.50000   3.382504  160.541720    0.581011
234.914247  12.386251  540.972082
 0.75000   3.382504  161.249509    0.581011
233.631843  15.021713  545.304589
 1.00000   3.382504  161.965739    0.581011
232.464292  19.084377  564.070654
```

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1141

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.572445	-43.094959	-4.952532
-604.134104	-17.151079	-1000.460	
0.25000	-6.572445	-42.567396	-4.952532
-605.550417	-12.455149	-1092.762	
0.50000	-6.572445	-42.058840	-4.952532
-607.049593	-8.772643	-1205.358	
0.75000	-6.572445	-41.591062	-4.952532
-608.632307	-5.978555	-1338.305	
1.00000	-6.572445	-41.185389	-4.952532
-610.296222	-4.042537	-1489.251	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.849369	362.507595	9.065599
404.747045	42.684553	1318.724	
0.25000	9.849369	368.160238	9.065599
393.224627	33.737556	1181.813	
0.50000	9.849369	374.296363	9.065599
382.632153	27.357008	1097.007	
0.75000	9.849369	380.706381	9.065599
372.908766	24.687155	1072.105	
1.00000	9.849369	387.180583	9.065599
364.068167	28.011504	1083.189	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.055356	-93.513763	-4.923565
-925.820925	-25.570131	-1820.051	
0.25000	-9.055356	-88.738668	-4.923565
-936.526071	-22.292003	-2035.353	
0.50000	-9.055356	-84.134266	-4.923565
-947.868348	-20.975486	-2289.172	
0.75000	-9.055356	-79.899719	-4.923565
-959.835713	-22.830023	-2581.283	
1.00000	-9.055356	-76.225071	-4.923565
-972.398508	-28.805155	-2913.813	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.997145	562.033094	5.853708
339.777661	40.514800	1999.649	
0.25000	11.997145	591.072333	5.853708
343.918494	35.481522	1858.099	
0.50000	11.997145	622.480208	5.853708
348.209624	32.293051	1741.668	
0.75000	11.997145	655.257225	5.853708
352.658632	31.697958	1658.545	
1.00000	11.997145	688.417873	5.853708
357.269995	34.981965	1594.933	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.078077	-209.856300	-5.853518
-780.823401	-49.988332	-2478.171	
0.25000	-15.078077	-185.354108	-5.853518
-777.358659	-45.376945	-2823.857	
0.50000	-15.078077	-161.743511	-5.853518
-774.205497	-42.178598	-3232.843	
0.75000	-15.078077	-140.017791	-5.853518
-771.343549	-40.987665	-3677.365	
1.00000	-15.078077	-121.068307	-5.853518
-768.753488	-42.346268	-4194.555	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.140500	609.989993	5.575276
657.832126	40.074850	2164.798	
0.25000	12.140500	633.860081	5.575276
660.565795	36.126595	1985.355	
0.50000	12.140500	659.678400	5.575276
663.385574	33.685511	1844.695	
0.75000	12.140500	686.646884	5.575276
666.296998	34.442830	1770.931	
1.00000	12.140500	713.881793	5.575276
669.304157	43.336059	1730.902	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1142

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.612579	-200.338802	-12.803199
-794.947244	-75.161343	-2818.361	
0.25000	-18.612579	-180.197834	-12.803199
-792.808050	-62.369612	-3189.157	
0.50000	-18.612579	-160.789802	-12.803199
-790.868842	-50.864507	-3618.055	
0.75000	-18.612579	-142.931153	-12.803199
-789.113902	-43.476079	-4107.169	
1.00000	-18.612579	-127.355636	-12.803199
-787.530718	-43.407453	-4662.867	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.787214	495.588742	8.327175
832.675922	41.539724	1840.413	
0.25000	11.787214	527.307202	8.327175
843.898364	32.332656	1525.670	
0.50000	11.787214	563.783372	8.327175
854.940060	24.487420	1253.392	
0.75000	11.787214	602.433790	8.327175
865.888154	21.106491	1031.007	
1.00000	11.787214	642.119181	8.327175
880.763809	24.539974	856.573379	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.702112	-198.304767	-10.364437
-773.852325	-56.017866	-1992.313	
0.25000	-12.702112	-161.155009	-10.364437
-788.239059	-45.222578	-2091.794	
0.50000	-12.702112	-125.636246	-10.364437
-802.400521	-34.850970	-2193.007	
0.75000	-12.702112	-93.257097	-10.364437
-816.457570	-32.352527	-2297.237	
1.00000	-12.702112	-73.140746	-10.364437
-835.546675	-35.586690	-2402.617	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.942884	613.673813	11.033265
1025.746	62.170779	2175.784	
0.25000	18.942884	638.467580	11.033265
1033.928	51.560721	1999.826	
0.50000	18.942884	665.291192	11.033265
1042.559	42.670696	1858.969	
0.75000	18.942884	695.598623	11.033265
1051.634	37.688084	1784.620	
1.00000	18.942884	729.061754	11.033265
1061.136	43.336059	1746.628	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.612579	-212.939365	-12.803199
-925.820925	-75.161343	-2854.951	
0.25000	-18.612579	-188.707921	-12.803199
-936.526071	-62.369612	-3227.001	
0.50000	-18.612579	-165.359333	-12.803199
-947.868348	-51.008101	-3656.817	
0.75000	-18.612579	-143.992373	-12.803199
-959.835713	-47.332890	-4147.161	
1.00000	-18.612579	-128.582485	-12.803199
-972.398508	-51.768724	-4703.573	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.942884	613.673813	11.033265
1025.746	62.170779	2175.784	
0.25000	18.942884	638.467580	11.033265
1033.928	51.560721	1999.826	
0.50000	18.942884	665.291192	11.033265
1042.559	42.670696	1858.969	
0.75000	18.942884	695.598623	11.033265
1051.634	37.688084	1784.620	
1.00000	18.942884	729.061754	11.033265
1061.136	43.336059	1746.628	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1143

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.612579	-212.939365	-12.803199
-925.820925	-75.161343	-2854.951	
0.25000	-18.612579	-188.707921	-12.803199
-936.526071	-62.369612	-3227.001	
0.50000	-18.612579	-165.359333	-12.803199
-947.868348	-51.008101	-3656.817	
0.75000	-18.612579	-143.992373	-12.803199
-959.835713	-47.332890	-4147.161	
1.00000	-18.612579	-128.582485	-12.803199
-972.398508	-51.768724	-4703.573	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.942884	613.673813	11.033265
1025.746	62.170779	2175.784	
0.25000	18.942884	638.467580	11.033265
1033.928	51.560721	1999.826	
0.50000	18.942884	665.291192	11.033265
1042.559	42.670696	1858.969	
0.75000	18.942884	695.598623	11.033265
1051.634	37.688084	1784.620	
1.00000	18.942884	729.061754	11.033265
1061.136	43.336059	1746.628	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.612579	-212.939365	-12.803199
-925.820925	-75.161343	-2854.951	
0.25000	-18.612579	-188.707921	-12.803199
-936.526071	-62.369612	-3227.001	
0.50000	-18.612579	-165.359333	-12.803199
-947.868348	-51.008101	-3656.817	
0.75000	-18.612579	-143.992373	-12.803199
-959.835713	-47.332890	-4147.161	
1.00000	-18.612579	-128.582485	-12.803199
-972.398508	-51.768724	-4703.573	

ELEM 84 ========== LENGTH = 3.470747

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.140607	107.009342	16.061607
434.352189	6.646721	302.043752	
0.25000	5.140607	107.466856	16.061607
435.403149	7.712950	308.692601	
0.50000	5.140607	107.942747	16.061607
436.419572	9.786535	316.449814	
0.75000	5.140607	108.432438	16.061607
437.403332	11.891429	324.207027	
1.00000	5.140607	108.916696	16.061607
438.361080	14.022147	331.964240	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.525164	-42.525730	-2.808555
-344.816768	-7.451407	-805.185109	
0.25000	-4.525164	-42.279055	-2.808555
-343.849657	-17.465283	-804.227019	
0.50000	-4.525164	-42.031618	-2.808555
-342.905470	-30.934979	-803.610366	
0.75000	-4.525164	-41.884443	-2.808555
-341.981340	-44.490643	-804.168423	
1.00000	-4.525164	-41.884357	-2.808555
-341.200715	-58.046508	-805.187735	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.336819	317.899158	15.580952
757.025623	19.834316	552.131326	
0.25000	7.336819	322.489582	15.580952
766.461305	53.943994	554.682308	
0.50000	7.336819	327.263375	15.580952
775.586740	88.897394	568.388646	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1144

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	7.336819	332.174748	15.580952
784.420003	124.028011	582.094984	
1.00000	7.336819	337.030993	15.580952
793.022262	159.208679	595.801322	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.120047	-58.120754	-41.177335
-546.140231	-14.962179	-1550.249	
0.25000	-9.120047	-55.645357	-41.177335
-537.448671	-22.519109	-1590.285	
0.50000	-9.120047	-53.162690	-41.177335
-528.959938	-32.800250	-1631.740	
0.75000	-9.120047	-51.782559	-41.177335
-520.648485	-43.569596	-1674.049	
1.00000	-9.120047	-51.781704	-41.177335
-513.625126	-54.554670	-1718.088	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.252533	592.824965	14.020572
605.427737	19.370974	797.437408	
0.25000	11.252533	620.338396	14.020572
604.683151	37.456826	746.740459	
0.50000	11.252533	648.898820	14.020572
604.683151	56.071030	764.782886	
0.75000	11.252533	678.236433	14.020572
604.683151	76.831088	782.825312	
1.00000	11.252533	707.211064	14.020572
604.683151	99.785878	800.867739	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.260957	-97.063172	-28.532520
-420.357516	-28.419474	-2182.702	
0.25000	-12.260957	-82.203377	-28.532520
-420.357516	-30.412770	-2280.290	
0.50000	-12.260957	-67.320018	-28.532520
-420.357516	-33.630881	-2382.462	
0.75000	-12.260957	-64.224135	-28.532520
-421.981092	-39.388364	-2488.073	
1.00000	-12.260957	-64.224135	-28.532520
-423.439162	-48.256486	-2596.622	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.567330	628.339120	32.780547
669.972426	20.112515	856.550657	
0.25000	11.567330	650.955904	32.780547
669.972426	34.826615	819.566086	
0.50000	11.567330	674.432108	32.780547
669.972426	52.223882	839.054618	
0.75000	11.567330	698.547734	32.780547
669.972426	72.197522	858.543151	
1.00000	11.567330	722.365476	32.780547
669.972426	93.681077	878.031684	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.524995	-95.102711	-26.730121
-613.822147	-32.618274	-2397.961	
0.25000	-11.524995	-82.888839	-26.730121
-613.822147	-51.960901	-2501.366	
0.50000	-11.524995	-70.653314	-26.730121
-613.822147	-72.935276	-2608.815	
0.75000	-11.524995	-68.049861	-26.730121
-613.822147	-95.870081	-2719.466	
1.00000	-11.524995	-68.049861	-26.730121
-613.822147	-121.873583	-2832.685	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.028935	308.921392	0.290317
278.030642	15.635888	315.567665	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1145

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	4.028935	323.667440	0.290317
295.338100	51.831414	286.126483	
0.50000	4.028935	338.990528	0.290317
312.075845	88.759806	292.926799	
0.75000	4.028935	354.745213	0.290317
328.294504	125.834649	299.727115	
1.00000	4.028935	370.315733	0.290317
344.117582	162.910478	306.527432	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.843895	-40.784899	-43.364365
-190.982412	-10.985842	-894.423500	
0.25000	-5.843895	-32.828352	-43.364365
-174.922725	-5.421153	-956.015403	
0.50000	-5.843895	-24.852812	-43.364365
-159.200106	-3.864508	-1019.617	
0.75000	-5.843895	-21.551103	-43.364365
-143.765786	-3.537713	-1085.082	
1.00000	-5.843895	-21.548389	-43.364365
-130.682293	-3.411362	-1151.790	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.882920	613.028307	16.895567
225.442104	16.782684	313.061225	
0.25000	8.882920	643.054210	16.895567
225.442104	36.372363	550.926791	
0.50000	8.882920	674.220633	16.895567
225.442104	56.699021	563.754074	
0.75000	8.882920	706.236145	16.895567
225.442104	80.157859	576.581357	
1.00000	8.882920	737.956366	16.895567
225.442104	105.580995	589.408641	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.821492	-77.116038	-31.609641
-196.047311	-29.721669	-1727.628	
0.25000	-9.821492	-60.901386	-31.609641
-196.047311	-35.666153	-1849.801	
0.50000	-9.821492	-44.660590	-31.609641
-196.047311	-42.966279	-1976.630	
0.75000	-9.821492	-41.179954	-31.609641
-196.047311	-52.780267	-2107.728	
1.00000	-9.821492	-41.179954	-31.609641
-196.047311	-66.436848	-2241.240	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.369644	654.310753	21.114261
537.721893	18.664822	792.610470	
0.25000	10.369644	681.626810	21.114261
537.721893	48.869304	742.127391	
0.50000	10.369644	709.979190	21.114261
537.721893	80.7716	759.884750	
0.75000	10.369644	739.104593	21.114261
537.721893	114.958126	777.487509	
1.00000	10.369644	767.870887	21.114261
537.721893	150.719473	795.167568	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.768838	-88.558914	-43.550609
-423.297581	-32.766230	-2227.784	
0.25000	-10.768838	-73.808925	-43.550609
-423.297581	-42.257087	-2347.776	
0.50000	-10.768838	-59.034887	-43.550609
-423.297581	-53.035262	-2472.128	
0.75000	-10.768838	-55.806442	-43.550609
-423.297581	-66.448313	-2600.646	
1.00000	-10.768838	-55.806442	-43.550609
-423.297581	-83.082083	-2731.295	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1146

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.735986	629.653518	23.640148
633.404748	19.189462	853.743789	
0.25000	9.735986	652.674723	23.640148
633.404748	46.172133	815.465760	
0.50000	9.735986	676.570377	23.640148
633.404748	75.773157	834.661741	
0.75000	9.735986	701.170038	23.640148
633.404748	107.730172	853.857721	
1.00000	9.735986	725.360624	23.640148
633.404748	141.115179	873.053702	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.248548	-88.596444	-40.239691
-614.360919	-29.568033	-2402.758	
0.25000	-10.248548	-76.164507	-40.239691
-614.360919	-42.804650	-2508.331	
0.50000	-10.248548	-63.712503	-40.239691
-614.360919	-56.998816	-2617.522	
0.75000	-10.248548	-61.043859	-40.239691
-614.360919	-73.140305	-2730.192	
1.00000	-10.248548	-61.043859	-40.239691
-614.360919	-92.213199	-2844.828	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.149173	109.392137	2.784290
310.020034	8.820192	295.453835	
0.25000	3.149173	109.972846	2.784290
308.813300	14.975075	300.770231	
0.50000	3.149173	110.577469	2.784290
307.644524	21.539772	307.607028	
0.75000	3.149173	111.197567	2.784290
306.506969	28.272139	314.443825	
1.00000	3.149173	111.809277	2.784290
305.553070	35.099128	321.280621	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.266312	-39.969085	-8.070363
-422.301504	-9.226737	-806.031843	
0.25000	-3.266312	-39.653435	-8.070363
-423.704631	-2.770541	-801.991957	
0.50000	-3.266312	-39.382747	-8.070363
-424.994294	-5.048150	-798.614889	
0.75000	-3.266312	-39.382747	-8.070363
-426.239854	-7.398033	-795.430552	
1.00000	-3.266312	-39.382747	-8.070363
-427.446320	-9.768605	-793.179202	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.577701	334.864550	33.794906
507.250479	12.778817	539.620337	
0.25000	6.577701	341.052224	33.794906
496.060682	19.725654	535.672843	
0.50000	6.577701	347.492101	33.794906
485.209638	27.323451	547.826554	
0.75000	6.577701	354.098160	33.794906
474.662615	35.577756	559.980265	
1.00000	6.577701	360.615965	33.794906
465.823389	44.626968	572.133977	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.843123	-54.895278	-11.226068
-708.233378	-17.111525	-1527.370	
0.25000	-5.843123	-51.534798	-11.226068
-720.621086	-41.597505	-1567.035	
0.50000	-5.843123	-48.495040	-11.226068
-732.606272	-69.730902	-1608.420	
0.75000	-5.843123	-48.495040	-11.226068
-744.178676	-98.213553	-1651.651	
1.00000	-5.843123	-48.495040	-11.226068
-755.383732	-126.810045	-1695.749	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1147

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.188359	597.754770	16.599497
402.211489	16.776737	779.979835	
0.25000	10.188359	625.480203	16.599497
402.211489	23.874563	727.506572	
0.50000	10.188359	654.256616	16.599497
402.211489	33.603564	744.198155	
0.75000	10.188359	683.818028	16.599497
402.211489	45.050191	760.889738	
1.00000	10.188359	713.015299	16.599497
402.211489	58.081758	777.581322	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.773035	-94.409683	-17.679619
-549.874880	-26.190890	-2153.337	
0.25000	-9.773035	-79.439412	-17.679619
-549.874880	-30.469981	-2248.469	
0.50000	-9.773035	-64.444668	-17.679619
-549.874880	-37.022745	-2347.940	
0.75000	-9.773035	-61.124955	-17.679619
-549.874880	-47.171627	-2451.519	
1.00000	-9.773035	-61.124955	-17.679619
-549.874880	-60.825073	-2557.041	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.937448	623.013121	15.903606
618.978475	22.666038	850.025495	
0.25000	9.937448	645.730271	15.903606
618.978475	57.043201	812.293686	
0.50000	9.937448	669.310130	15.903606
618.978475	92.684998	831.127194	
0.75000	9.937448	693.532483	15.903606
618.978475	130.790926	850.249842	
1.00000	9.937448	717.455840	15.903606
618.978475	170.453449	869.227921	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.389176	-93.753778	-47.587018
-635.332467	-27.171936	-2388.455	
0.25000	-11.389176	-81.486227	-47.587018
-635.332467	-31.979285	-2488.963	
0.50000	-11.389176	-69.198838	-47.587018
-635.332467	-38.632950	-2593.159	
0.75000	-11.389176	-66.556078	-47.587018
-635.332467	-48.306019	-2700.861	
1.00000	-11.389176	-66.556078	-47.587018
-635.332467	-61.015967	-2810.359	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.515821	139.746254	38.842643
575.730918	12.809888	579.408452	
0.25000	13.515821	140.169968	38.842643
576.656488	12.294980	601.547972	
0.50000	13.515821	140.606607	38.842643
577.600783	16.568511	626.985000	
0.75000	13.515821	141.050204	38.842643
578.566715	20.877396	654.771276	
1.00000	13.515821	141.490120	38.842643
579.555477	25.202074	684.856612	

COMB DL-G1-1 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-5.205634	-66.896631	-5.127937	
-471.491888	-10.475423	-1499.455		
0.25000	-5.205634	-66.636152	-5.127937	
-470.553850	-38.434459	-1581.475		
0.50000	-5.205634	-66.389443	-5.127937	
-469.688324	-72.096290	-1667.928		
0.75000	-5.205634	-66.164405	-5.127937	
-468.892356	-105.781525	-1757.572		
1.00000	-5.205634	-66.033605	-5.127937	
-468.159021	-139.473705	-1849.973		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1148

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	14.916918	420.564445	33.454100	
969.520220	30.225122	1111.055		
0.25000	14.916918	424.093231	33.454100	
976.116902	67.693028	1100.166		
0.50000	14.916918	427.747939	33.454100	
982.848315	113.862112	1124.955		
0.75000	14.916918	431.452575	33.454100	
989.731131	160.574564	1166.110		
1.00000	14.916918	435.128310	33.454100	
996.776978	207.491284	1216.446		

COMB DL-G1-2 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-14.407698	-98.692702	-54.604289	
-722.333264	-21.638281	-2968.936		
0.25000	-14.407698	-96.523642	-54.604289	
-715.655043	-39.322447	-3224.197		
0.50000	-14.407698	-94.470008	-54.604289	
-709.493875	-66.138606	-3498.646		
0.75000	-14.407698	-92.605826	-54.604289	
-703.820452	-93.625342	-3792.364		
1.00000	-14.407698	-91.619194	-54.604289	
-698.594121	-121.363817	-4093.949		

COMB DL-G1-3 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	17.909283	749.385658	31.984883	
822.480897	34.052885	1644.397		
0.25000	17.909283	773.832309	31.984883	
818.111522	55.289633	1597.913		
0.50000	17.909283	799.146611	31.984883	
814.117377	84.031377	1576.045		
0.75000	17.909283	824.852554	31.984883	
810.525193	115.351182	1588.359		
1.00000	17.909283	850.268442	31.984883	
807.358741	148.934649	1651.257		

COMB DL-G1-3 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-16.825601	-156.867653	-43.143390	
-595.338892	-43.058775	-4313.776		
0.25000	-16.825601	-142.109057	-43.143390	
-599.273857	-52.466635	-4765.905		
0.50000	-16.825601	-128.178418	-43.143390	
-603.280104	-79.902832	-5253.714		
0.75000	-16.825601	-115.523966	-43.143390	
-607.306368	-92.569833	-5779.447		
1.00000	-16.825601	-113.716562	-43.143390	
-611.303305	-116.469676	-6338.333		

COMB DL-G1-4 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	18.792011	802.236177	49.099508	
894.329986	35.566893	1746.484		
0.25000	18.792011	822.348952	49.099508	
891.239022	53.346106	1697.257		
0.50000	18.792011	843.176110	49.099508	
888.417514	79.051801	1691.019		
0.75000	18.792011	864.280947	49.099508	
885.889522	107.363155	1718.372		
1.00000	18.792011	885.231203	49.099508	
883.675491	138.373701	1787.398		

COMB DL-G1-4 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-15.523989	-153.336385	-39.693085	
-808.393011	-49.370217	-4659.819		
0.25000	-15.523989	-141.192083	-39.693085	
-811.136085	-74.547424	-5150.395		
0.50000	-15.523989	-129.728735	-39.693085	
-813.927765	-107.269746	-5683.677		
0.75000	-15.523989	-119.315253	-39.693085	
-816.725637	-144.613727	-6254.969		
1.00000	-15.523989	-117.778814	-39.693085	
-819.487783	-183.569386	-6854.832		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1149

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	3.771173	381.438456	0.283381	
324.892679	19.669964	673.813130		
0.25000	3.771173	394.863426	0.283381	
341.510783	59.399470	628.675626		
0.50000	3.771173	408.766684	0.283381	
358.493064	106.118176	603.885711		
0.75000	3.771173	422.854232	0.283381	
375.863791	154.078032	597.144478		
1.00000	3.771173	436.830927	0.283381	
393.653269	202.384428	618.977435		

COMB DL-G2-1 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-11.591957	-61.779386	-56.175266	
-237.529416	-17.893682	-1780.501		
0.25000	-11.591957	-53.579651	-56.175266	
-220.766933	-37.301843	-2007.895		
0.50000	-11.591957	-45.819578	-56.175266	
-205.297045	-4.993292	-2254.680		
0.75000	-11.591957	-38.758465	-56.175266	
-191.057465	-4.363480	-2523.877		
1.00000	-11.591957	-35.877584	-56.175266	
-177.898251	-4.086321	-2810.348		

COMB DL-G2-2 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	10.003222	762.477033	17.914165	
285.340578	26.125553	1320.465		
0.25000	10.003222	789.775651	17.914165	
285.340578	47.855746	1225.397		
0.50000	10.003222	818.031721	17.914165	
285.340578	74.020880	1172.064		
0.75000	10.003222	846.669885	17.914165	
285.340578	103.599628	1159.239		
1.00000	10.003222	875.096040	17.914165	
285.340578	137.529043	1201.799		

COMB DL-G2-2 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-14.055707	-117.503019	-42.338313	
-243.909537	-46.544679	-3470.901		
0.25000	-14.055707	-101.008584	-42.338313	
-243.909537	-46.966425	-3923.950		
0.50000	-14.055707	-85.436990	-42.338313	
-243.909537	-51.489722	-4417.626		
0.75000	-14.055707	-71.289788	-42.338313	
-243.909537	-59.713284	-4956.505		
1.00000	-14.055707	-68.912535	-42.338313	
-243.909537	-73.054018	-5531.134		

COMB DL-G2-3 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	13.733685	827.332080	25.540018	
701.213843	33.844464	1645.272		
0.25000	13.733685	852.252664	25.540018	
701.613595	66.699316	1577.057		
0.50000	13.733685	878.045670	25.540018	
701.990365	103.687622	1549.812		
0.75000	13.733685	904.187508	25.540018	
702.348435	144.342290	1560.321		
1.00000	13.733685	930.135522	25.540018	
702.695426	188.648193	1621.392		

COMB DL-G2-3 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-15.952930	-139.507061	-53.907787	
-555.199574	-49.281543	-4430.237		
0.25000	-15.952930	-124.446122	-53.907787	
-555.161887	-66.848532	-4920.352		
0.50000	-15.952930	-110.227280	-53.907787	
-555.101217	-68.464455	-5454.177		
0.75000	-15.952930	-97.308630	-53.907787	
-555.021848	-84.265051	-6044.741		
1.00000	-15.952930	-95.059759	-53.907787	
-554.931399	-104.324359	-6672.976		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1150

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	12.980255	801.100331	28.626500	
830.253725	35.342299	1734.594		
0.25000	12.980255	822.180133	28.626500	
830.253725	64.321779	1689.753		
0.50000	12.980255	843.999257	28.626500	
830.253725	99.389304	1682.432		
0.75000	12.980255	866.111439	28.626500	
830.253725	137.288239	1707.659		
1.00000	12.980255	888.063908	28.626500	
830.253725	178.572179	1775.612		

COMB DL-G2-4 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-15.470418	-141.161670	-50.664712	
-796.123185	-44.772561	-4703.147		
0.25000	-15.470418	-128.424787	-50.664712	
-796.123185	-54.951254	-5188.513		
0.50000	-15.470418	-116.400515	-50.664712	
-796.123185	-70.198664	-5717.809		
0.75000	-15.470418	-105.476150	-50.664712	
-796.123185	-88.531452	-6295.945		
1.00000	-15.470418	-103.640452	-50.664712	
-796.123185	-110.877120	-6906.344		

COMB DL-G3-1 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	3.188291	139.098873	4.360792	
414.722810	17.543318	564.332431		
0.25000	3.188291	139.642964	4.360792	
413.529774	28.689471	582.062816		
0.50000	3.188291	140.208750	4.360792	
412.430692	41.582578	603.562879		
0.75000	3.188291	140.781987	4.360792	
411.422497	54.841506	628.063960		
1.00000	3.188291	141.349157	4.360792	
410.503939	68.292895	654.881803		

COMB DL-G3-1 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-6.464938	-62.536753	-16.443846	
-544.565873	-3.229384	-1488.459		
0.25000	-6.464938	-62.212892	-16.443846	
-545.726834	-3.603109	-1565.892		
0.50000	-6.464938	-61.907753	-16.443846	
-546.913029	-6.186519	-1648.602		
0.75000	-6.464938	-61.699397	-16.443846	
-548.124320	-9.040207	-1734.883		
1.00000	-6.464938	-61.697250	-16.443846	
-549.355336	-12.070143	-1824.374		

COMB DL-G3-2 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	9.711554	433.065084	38.654542	
647.306993	25.743816	1083.648		
0.25000	9.711554	437.972058	38.654542	
638.261252	34.854169	1060.515		
0.50000	9.711554	443.069957	38.654542	
629.933039	46.531957	1076.210		
0.75000	9.711554	448.235642	38.654542	
622.287931	59.398232	1111.385		
1.00000	9.711554	453.351990	38.654542	
615.301526	73.281754	1157.139		

COMB DL-G3-2 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-8.815174	-92.481386	-18.078579	
-872.970898	-27.366327	-2912.651		
0.25000	-8.815174	-89.553871	-18.078579	
-881.759117	-54.146924	-3163.400		
0.50000	-8.815174	-86.796058	-18.078579	
-890.745111	-84.277172	-3437.363		
0.75000	-8.815174	-84.750639	-18.078579	
-899.906063	-115.370064	-3733.436		
1.00000	-8.815174	-84.724762	-18.078579	
-909.234879	-147.138871	-4042.342		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1151

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	11.537823	741.215846	22.113874	
556.079218	32.487643	1595.249		
0.25000	11.537823	765.559426	22.113874	
559.035420	43.542913	1541.640		
0.50000	11.537823	791.363171	22.113874	
562.066750	60.042640	1515.009		
0.75000	11.537823	817.211191	22.113874	
565.226065	81.401108	1521.721		
1.00000	11.537823	842.868956	22.113874	
568.567444	105.484637	1579.719		

COMB DL-G3-3 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-14.690810	-150.918297	-31.523739	
-730.708638	-41.377672	-4193.615		
0.25000	-14.690810	-136.010480	-31.523739	
-728.051010	-42.775215	-4634.865		
0.50000	-14.690810	-121.934188	-31.523739	
-725.566681	-50.332336	-5113.559		
0.75000	-14.690810	-109.143344	-31.523739	
-723.195973	-63.950663	-5630.768		
1.00000	-14.690810	-106.628752	-31.523739	
-720.894607	-80.709173	-6180.829		

COMB DL-G3-4 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	11.722541	792.151564	21.373651	
826.471936	40.109027	1731.008		
0.25000	11.722541	812.414713	21.373651	
828.356102	79.768392	1681.963		
0.50000	11.722541	833.386273	21.373651	
830.291149	124.970540	1674.059		
0.75000	11.722541	854.640915	21.373651	
832.320026	174.260335	1699.254		
1.00000	11.722541	875.739341	21.373651	
834.486343	226.072482	1766.704		

COMB DL-G3-4 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-18.416117	-151.364676	-62.927026	
-846.793833	-41.962695	-4662.309		
0.25000	-18.416117	-139.109085	-62.927026	
-845.165429	-44.321295	-5136.784		
0.50000	-18.416117	-127.537462	-62.927026	
-843.635905	-52.634653	-5664.097		
0.75000	-18.416117	-117.022883	-62.927026	
-842.160868	-66.031551	-6217.813		
1.00000	-18.416117	-115.010005	-62.927026	
-840.702725	-82.273529	-6799.244		

COMB DB ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	11.567330	654.310753	33.794906	
757.025623	22.666038	856.550657		
0.25000	11.567330	681.626813	33.794906	
766.461305	57.043201	819.566086		
0.50000	11.567330	709.979190	33.794906	
775.586740	92.684998	839.054618		
0.75000	11.567330	739.104593	33.794906	
784.420003	130.790926	858.543151		
1.00000	11.567330	767.870887	33.794906	
793.022262	170.453449	878.031684		

COMB DB ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-12.260957	-97.063112	-47.587018	
-708.233378	-32.766230	-2402.758		
0.25000	-12.260957	-82.888839	-47.587018	
-720.621086	-51.960901	-2508.331		
0.50000	-12.260957	-70.655314	-47.587018	
-732.606272	-72.935276	-2617.522		
0.75000	-12.260957	-68.049861	-47.587018	
-744.178676	-98.213553	-2730.192		
1.00000	-12.260957	-68.049861	-47.587018	
-755.383732	-126.810045	-2844.828		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1152

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	18.792011	827.332080	49.099508	
969.520220	40.109027	1746.484		
0.25000	18.792011	852.252664	49.099508	
976.116902	79.768392	1697.257		
0.50000	18.792011	878.045670	49.099508	
982.848315	124.970540	1691.019		
0.75000	18.792011	904.187508	49.099508	
989.731131	174.260335	1718.372		
1.00000	18.792011	930.135522	49.099508	
996.776978	226.072482	1787.398		

COMB DL ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-18.416117	-156.867653	-62.927026	
-872.970898	-49.370217	-4703.147		
0.25000	-18.416117	-142.109057	-62.927026	
-881.759117	-74.547424	-5188.513		
0.50000	-18.416117	-129.728735	-62.927026	
-890.745111	-107.269746	-5717.809		
0.75000	-18.416117	-119.315253	-62.927026	
-899.906063	-144.613727	-6295.945		
1.00000	-18.416117	-117.778814	-62.927026	
-909.234879	-183.569386	-6906.344		

COMB CAR ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	18.792011	827.332080	49.099508	
969.520220	40.109027	1746.484		
0.25000	18.792011	852.252664	49.099508	
976.116902	79.768392	1697.257		
0.50000	18.792011	878.045670	49.099508	
982.848315	124.970540	1691.019		
0.75000	18.792011	904.187508	49.099508	
989.731131	174.260335	1718.372		
1.00000	18.792011	930.135522	49.099508	
996.776978	226.072482	1787.398		

COMB CAR ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-18.416117	-156.867653	-62.927026	
-872.970898	-49.370217	-4703.147		
0.25000	-18.416117	-142.109057	-62.927026	
-881.759117	-74.547424	-5188.513		
0.50000	-18.416117	-129.728735	-62.927026	
-890.745111	-107.269746	-5717.809		
0.75000	-18.416117	-119.315253	-62.927026	
-899.906063	-144.613727	-6295.945		
1.00000	-18.416117	-117.778814	-62.927026	
-909.234879	-183.569386	-6906.344		

COMB DESIGN ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	18.792011	827.332080	49.099508	
969.520220	40.109027	1746.484		
0.25000	18.792011	852.252664	49.099508	
976.116902	79.768392	1697.257		
0.50000	18.792011	878.045670	49.099508	
982.848315	124.970540	1691.019		
0.75000	18.792011	904.187508	49.099508	
989.731131	174.260335	1718.372		
1.00000	18.792011	930.135522	49.099508	
996.776978	226.072482	1787.398		

COMB DESIGN ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-18.416117	-156.867653	-62.927026	
-872.970898	-49.370217	-4703.147		
0.25000	-18.416117	-142.109057	-62.927026	
-881.759117	-74.547424	-5188.513		
0.50000	-18.416117	-129.728735	-62.927026	
-890.745111	-107.269746	-5717.809		
0.75000	-18.416117	-119.315253	-62.927026	
-899.906063	-144.613727	-6295.945		
1.00000	-18.416117	-117.778814	-62.927026	
-909.234879	-183.569386	-6906.344		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1153

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 85 ========== LENGTH = 3.470017

COMB DB-G1-1 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	5.304752	41.733017	3.674512	
343.449445	13.576517	332.000902		
0.25000	5.304752	41.733017	3.674512	
344.231779	11.247050	308.013121		
0.50000	5.304752	41.810893	3.674512	
345.157417	8.948544	284.025340		
0.75000	5.304752	42.057215	3.674512	
346.103097	6.671232	260.665847		
1.00000	5.304752	42.302824	3.674512	
347.071773	7.489583	254.808433		

COMB DB-G1-1 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-4.201109	-109.607642	-16.895296	
-442.019014	-58.318901	-805.304940		
0.25000	-4.201109	-109.125599	-16.895296	
-441.061094	-44.004242	-786.445721		
0.50000	-4.201109	-108.638000	-16.895296	
-440.077733	-30.587980	-786.259048		
0.75000	-4.201109	-108.164110	-16.895296	
-439.062508	-17.617035	-787.113776		
1.00000	-4.201109	-107.708530	-16.895296	
-438.013426	-5.284991	-788.403701		

COMB DB-G1-2 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	7.425980	54.167867	42.191418	
516.793845	158.544966	595.871258		
0.25000	7.425980	54.167867	42.191418	
523.833556	123.026606	552.893321		
0.50000	7.425980	54.847317	42.191418	
532.161547	87.688327	509.915384		
0.75000	7.425980	57.319878	42.191418	
540.665744	52.429638	473.411768		
1.00000	7.425980	59.784463	42.191418	
549.375742	20.574454	480.800259		

COMB DB-G1-2 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-8.835739	-337.595383	-15.662662	
-796.863609	-55.788534	-1716.491		
0.25000	-8.835739	-332.760570	-15.662662	
-788.257045	-42.696676	-1641.840		
0.50000	-8.835739	-327.869399	-15.662662	
-779.425187	-29.816142	-1600.138		
0.75000	-8.835739	-323.114869	-15.662662	
-770.309037	-19.088908	-1559.268		
1.00000	-8.835739	-318.543016	-15.662662	
-760.889310	-12.352297	-1519.822		

COMB DB-G1-3 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	11.019576	69.684979	30.232744	
426.107748	97.535463	800.956675		
0.25000	11.019576	69.684979	30.232744	
424.789729	73.302089	743.346759		
0.50000	11.019576	69.684979	30.232744	
423.548914	54.180733	685.736842		
0.75000	11.019576	83.132259	30.232744	
423.548914	35.104943	662.778398		
1.00000	11.019576	97.957231	30.232744	
423.548914	19.034153	734.203747		

COMB DB-G1-3 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-11.541120	-708.082989	-14.401899	
-607.702561	-49.329112	-2595.272		
0.25000	-11.541120	-679.194834	-14.401899	
-607.702561	-37.522333	-2446.453		
0.50000	-11.541120	-649.935661	-14.401899	
-607.702561	-29.730544	-2341.432		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1154

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	T	P/M2	V2/M3	V3/M4
0.75000	-11.541120	-621.447036	-14.401899	
-607.702561	-25.353028	-2240.052		
1.00000	-11.541120	-594.000141	-14.401899	
-608.235194	-23.305065	-2142.978		

COMB DB-G1-4 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	11.415815	75.371580	28.382779	
617.511987	91.988046	878.121802		
0.25000	11.415815	75.371580	28.382779	
617.511987	68.297988	815.081189		
0.50000	11.415815	75.371580	28.382779	
617.511987	49.990862	752.040576		
0.75000	11.415815	86.488540	28.382779	
617.511987	32.169588	718.155286		
1.00000	11.415815	98.673529	28.382779	
617.511987	19.093849	778.300898		

COMB DB-G1-4 ---------- MIN

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	-10.893782	-723.885856	-33.009374	
-673.901001	-122.827002	-2832.490		
0.25000	-10.893782	-700.139401	-33.009374	
-673.901001	-94.786654	-2672.245		
0.50000	-10.893782	-676.088749	-33.009374	
-673.901001	-69.743713	-2562.645		
0.75000	-10.893782	-652.672772	-33.009374	
-673.901001	-47.605700	-2495.382		
1.00000	-10.893782	-630.110570	-33.009374	
-673.901001	-28.050982	-2353.962		

COMB DB-G2-1 ---------- MAX

REL DIST	T	P/M2	V2/M3	V3/M4
0.00000	3.800070	25.377445	43.463412	
131.142614	162.689011	306.564395		
0.25000	3.800070	25.377445	43.463412	
144.297663	125.165532	284.549354		
0.50000	3.800070	26.365354	43.463412	
159.801684	88.201703	262.534313		
0.75000	3.800070	34.312087	43.463412	
175.594351	51.270492	260.120310		
1.00000	3.800070	42.241606	43.463412	
191.728586	14.758491	303.226438		

COMB DB-G2-1 ---------- MIN

```
  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.659776 -370.142251   -0.256236
-343.554231   -3.127987   -1149.845
 0.25000   -5.659776 -354.631412   -0.256236
-327.686903   -3.194368   -1068.891
 0.50000   -5.659776 -338.932308   -0.256236
-311.444609   -3.331032   -1003.800
 0.75000   -5.659776 -323.661561   -0.256236
-294.704978   -5.325400 -940.491963
 1.00000   -5.659776 -308.965412   -0.256236
-277.411218  -10.454029 -879.224792

  COMB DB-G2-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.468997   48.662865   32.488434
196.813142  103.741997  589.469340
 0.25000    8.468997   48.662865   32.488434
196.813142   75.641961  547.254700
 0.50000    8.468997   48.662865   32.488434
196.813142   54.816218  505.039459
 0.75000    8.468997   63.444177   32.488434
196.813142   34.720545  500.992228
 1.00000    8.468997   79.620344   32.488434
196.813142   14.800382  592.745121

  COMB DB-G2-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.292216 -738.428701  -16.957153
-225.286375  -66.314630   -2240.366
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1155

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  REL DIST          P          V2          V3
    T          M2          M3
 0.25000   -9.292216 -706.903698  -16.957153
-225.286375  -52.065835   -2077.546
 0.50000   -9.292216 -674.974622  -16.957153
-225.286375  -41.602792   -1947.026
 0.75000   -9.292216 -643.887408  -16.957153
-225.286375  -33.185752   -1820.764
 1.00000   -9.292216 -613.935106  -16.957153
-225.286375  -26.339585   -1699.032

  COMB DB-G2-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.113757   65.828613   44.573986
424.975356  149.301818  795.253942
 0.25000   10.113757   65.828613   44.573986
424.975356  110.696702  738.147342
 0.50000   10.113757   65.828613   44.573986
424.975356   78.121373  681.040742
 0.75000   10.113757   79.340278   44.573986
424.975356   47.510450  658.652988
 1.00000   10.113757   94.054967   44.573986
424.975356   17.860963  735.813281

  COMB DB-G2-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.083643 -768.744904  -21.534855
-539.896643  -83.106600   -2730.091
 0.25000  -10.083643 -740.065746  -21.534855
-539.896643  -64.818730   -2558.817
 0.50000  -10.083643 -711.019484  -21.534855
-539.896643  -52.444512   -2387.231
 0.75000  -10.083643 -682.739683  -21.534855
-539.896643  -38.541270   -2307.807
 1.00000  -10.083643 -655.491185  -21.534855
-539.896643  -28.127073   -2188.470

  COMB DB-G2-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.575836   72.182373   41.587648
617.956794  140.008849  873.142251
 0.25000    9.575836   72.182373   41.587648
617.956794  103.982569  810.523738
 0.50000    9.575836   72.182373   41.587648
617.956794   73.501056  747.905226
 0.75000    9.575836   83.515374   41.587648
617.956794   43.859015  715.191093
 1.00000    9.575836   95.917827   41.587648
617.956794   17.816319  775.579063

  COMB DB-G2-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.745823 -726.931868  -23.882647
-636.631249  -92.105611   -2844.418
 0.25000   -9.745823 -702.761286  -23.882647
-636.631249  -77.777980   -2681.717
 0.50000   -9.745823 -678.280896  -23.882647
-636.631249  -54.878401   -2570.588
 0.75000   -9.745823 -654.445973  -23.882647
-636.631249  -39.919510   -2462.890
 1.00000   -9.745823 -631.481198  -23.882647
-636.631249  -26.399929   -2358.567

  COMB DB-G3-1 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.223508   40.124826    9.049478
430.203681   34.990247  321.307171
 0.25000    3.223508   40.124879    9.049478
429.003608   27.283920  298.340867
 0.50000    3.223508   40.124879    9.049478
427.763770   19.684411  275.374564
 0.75000    3.223508   40.293979    9.049478
426.479165   12.625851  254.174035
 1.00000    3.223508   40.609456    9.049478
425.150639    8.328019  250.520619
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1156

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G3-1 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.200438 -113.158780   -3.600657
-307.659390  -11.475126 -793.860052
 0.25000   -3.200438 -112.548009   -3.600657
-308.607513   -8.391359 -773.959210
 0.50000   -3.200438 -111.928665   -3.600657
-309.739669   -5.371895 -778.348144
 0.75000   -3.200438 -111.324633   -3.600657
-310.903921   -2.522644 -782.939551
 1.00000   -3.200438 -110.744262   -3.600657
-312.103837   -2.040740 -788.230380

  COMB DB-G3-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    6.607954   51.881949   12.222315
758.919220   44.586779  572.180487
 0.25000    6.607954   51.882520   12.222315
747.778046   34.460663  531.311820
 0.50000    6.607954   51.882520   12.222315
736.262272   24.834625  490.443152
 0.75000    6.607954   53.848425   12.222315
724.327445   16.196898  458.405014
 1.00000    6.607954   57.206259   12.222315
711.983789   10.709556  476.849736

  COMB DB-G3-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.575216 -362.799468  -34.250047
-469.372708 -128.598973   -1697.678
 0.25000   -5.575216 -356.292975  -34.250047
-478.152830  -98.949508   -1616.799
 0.50000   -5.575216 -349.696200  -34.250047
-488.644721  -70.356977   -1575.047
 0.75000   -5.575216 -343.263945  -34.250047
-499.439405  -43.058474   -1535.312
 1.00000   -5.575216 -337.081398  -34.250047
-510.569795  -16.919901   -1497.276

  COMB DB-G3-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.913569   67.417276   19.462143
552.426142   56.499326  777.652710
 0.25000    9.913569   67.417276   19.462143
552.426142   39.726601  722.040458
 0.50000    9.913569   67.417276   19.462143
552.426142   28.630956  666.427205
 0.75000    9.913569   81.176004   19.462143
552.426142   19.833427  647.078901
 1.00000    9.913569   96.110128   19.462143
552.426142   13.864493  723.422735

  COMB DB-G3-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.211630 -714.955548  -16.574176
-404.220818  -61.344469   -2557.639
 0.25000   -9.211630 -685.847072  -16.574176
-404.220818  -47.522365   -2406.990
 0.50000   -9.211630 -656.366339  -16.574176
-404.220818  -37.925989   -2304.957
 0.75000   -9.211630 -627.663952  -16.574176
-404.220818  -30.452877   -2207.233
 1.00000   -9.211630 -600.007505  -16.574176
-404.220818  -23.856018   -2113.771

  COMB DB-G3-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.703218   74.538832   49.048947
639.020815  169.208731  869.314934
 0.25000    9.703218   74.538832   49.048947
639.020815  126.754679  807.016384
 0.50000    9.703218   74.538832   49.048947
639.020815   89.742186  744.717834
 0.75000    9.703218   85.731883   49.048947
639.020815   53.555224  712.221851
 1.00000    9.703218   97.970291   49.048947
639.020815   20.001887  773.255269
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1157

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G3-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.986263 -719.126068  -16.159088
-621.775072  -61.033983   -2809.864
 0.25000  -10.986263 -695.274828  -16.159088
-621.775072  -47.682529   -2651.328
 0.50000  -10.986263 -671.117948  -16.159088
-621.775072  -38.476637   -2545.224
 0.75000  -10.986263 -647.598096  -16.159088
-621.775072  -30.841165   -2442.782
 1.00000  -10.986263 -624.936722  -16.159088
-621.775072  -24.372888   -2344.014

  COMB DL-G1-1 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.208980   69.314358    6.431580
480.377182   27.201106  684.778655
 0.25000   11.208980   69.423884    6.431580
481.115387   21.954348  647.543178
 0.50000   11.208980   69.647705    6.431580
481.913740   16.719938  612.706824
 0.75000   11.208980   69.893834    6.431580
482.779463   11.525219  580.026206
 1.00000   11.208980   70.153799    6.431580
483.718052   11.633630  554.795197

  COMB DL-G1-1 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -4.828622 -138.790846  -39.613062
-578.206722 -141.550898   -1853.236
 0.25000   -4.828622 -138.352592  -39.613062
-577.217602 -107.197548   -1763.068
 0.50000   -4.828622 -137.910452  -39.613062
-576.251209  -72.852187   -1675.841
 0.75000   -4.828622 -137.474003  -39.613062
-575.305137  -38.538011   -1591.493
 1.00000   -4.828622 -137.052526  -39.613062
-574.380819   -9.473127   -1511.331

  COMB DL-G1-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.213807   98.650300   56.135578
716.184530  209.773843  1216.687
 0.25000   13.213807   99.443249   56.135578
721.428193  161.705527   1153.552
 0.50000   13.213807  101.305576   56.135578
727.116640  113.825707   1100.922
 0.75000   13.213807  103.354192   56.135578
733.288816   66.533772   1063.757
 1.00000   13.213807  105.518872   56.135578
739.966942   28.085691   1074.644

  COMB DL-G1-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.908411 -429.294698  -34.343871
-992.871695 -124.460818   -4093.447
 0.25000  -11.908411 -425.632563  -34.343871
-985.818367  -95.133721   -3797.142
 0.50000  -11.908411 -421.940111  -34.343871
-978.927650  -66.074176   -3508.484
 0.75000  -11.908411 -418.292884  -34.343871
-972.188537  -38.297213   -3238.694
 1.00000  -11.908411 -414.773706  -34.343871
-965.599777   -19.363049   -2987.762

  COMB DL-G1-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   15.955284  124.163872   44.900418
627.464585  150.003219   1651.464
 0.25000   15.955284  124.507145   44.900418
623.581846  113.997881   1571.038
 0.50000   15.955284  136.935272   44.900418
619.643054   82.129557   1549.112
 0.75000   15.955284  150.838245   44.900418
615.699787   52.749893   1557.314
 1.00000   15.955284  165.561758   44.900418
611.806220   30.939332   1599.885
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1158

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G1-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.262582 -842.429228  -32.967413
-802.933562 -119.084069   -6338.000
 0.25000  -14.262582 -816.998321  -32.967413
-805.980228  -92.078821   -5786.264
 0.50000  -14.262582 -791.392076  -32.967413
-809.465382  -68.503689   -5267.174
 0.75000  -14.262582 -766.101077  -32.967413
-813.365234  -49.966236   -4785.828
 1.00000  -14.262582 -741.678674  -32.967413
-817.652175   -39.780171   -4339.553

  COMB DL-G1-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   16.532160  129.579148   41.541233
833.621867  139.637935   1787.497
 0.25000   16.532160  129.865244   41.541233
830.952774  106.226893   1699.442
 0.50000   16.532160  140.141628   41.541233
828.225592   76.755292   1659.576
 0.75000   16.532160  151.582153   41.541233
825.484740   50.474951   1649.827
 1.00000   16.532160  163.697558   41.541233
822.775086   32.363921   1695.901

  COMB DL-G1-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.611421 -877.137632  -50.110298
-884.319624 -186.095820   -6855.679
 0.25000  -13.611421 -856.216649  -50.110298
-886.436143 -144.335219   -6263.363
 0.50000  -13.611421 -835.151363  -50.110298
-888.876814 -105.613787   -5699.163
 0.75000  -13.611421 -814.345422  -50.110298
-891.621322   -72.318040   -5172.400
 1.00000  -13.611421 -794.252019  -50.110298
-894.644855   -46.592659   -4687.878

  COMB DL-G2-1 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.922639   40.439820   56.223975
181.600030  202.257398  619.060115
 0.25000    3.922639   42.541023   56.223975
194.835759  153.802038  590.734510
 0.50000    3.922639   49.574933   56.223975
209.166991  105.730925  595.846160
 0.75000    3.922639   57.319906   56.223975
224.666928   59.009619  616.316316
 1.00000    3.922639   65.507124   56.223975
241.453823   18.377024  662.274201

  COMB DL-G2-1 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.921817 -433.163287   -0.265152
-390.621619   -4.172330   -2806.028
 0.25000   -8.921817 -419.225620   -0.265152
-372.796177   -4.358080   -2522.978
 0.50000   -8.921817 -405.172871   -0.265152
-355.380184   -4.952830   -2256.903
 0.75000   -8.921817 -391.300729   -0.265152
-338.396468   -5.329559   -2013.278
 1.00000   -8.921817 -377.907452   -0.265152
-321.787672   -17.162165   -1788.656

  COMB DL-G2-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.173123   77.817567   42.954694
247.402812  136.624769  1201.814
 0.25000    9.173123   78.391637   42.954694
247.402812  100.461462  1146.424
 0.50000    9.173123   92.480583   42.954694
247.402812   69.917135  1155.427
 0.75000    9.173123  108.022463   42.954694
247.402812   45.414739  1200.229
 1.00000    9.173123  124.477481   42.954694
247.402812   23.751491  1296.414
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1159

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G2-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.704128 -869.078659  -18.099215
-282.956001   -73.148397   -5528.727
 0.25000  -11.704128 -840.692457  -18.099215
-282.956001   -58.812268   -4959.723
 0.50000  -11.704128 -812.109588  -18.099215
-282.956001   -48.827408   -4426.020
 0.75000  -11.704128 -783.881032  -18.099215
-282.956001   -45.302393   -3937.284
 1.00000  -11.704128 -756.614878  -18.099215
-282.956001   -44.940431   -3488.823

  COMB DL-G2-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.732614  107.055245   55.117541
566.415869  189.185720   1621.554
 0.25000   12.732614  107.663270   55.117541
566.510776  142.392272   1543.276
 0.50000   12.732614  120.530182   55.117541
566.601860  100.125598   1523.786
 0.75000   12.732614  134.720515   55.117541
566.680150   63.889854   1549.678
 1.00000   12.732614  149.745418   55.117541
566.740154   30.802479   1603.446

  COMB DL-G2-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.437396 -922.278271   -26.243902
-698.740682 -105.940577   -6671.036
 0.25000  -13.437396 -896.365214   -26.243902
-698.398242   -84.198325   -6050.123
 0.50000  -13.437396 -870.276758   -26.243902
-698.051978   -66.474836   -5461.893
 0.75000  -13.437396 -844.512785   -26.243902
-697.692921   -54.751620   -4932.620
 1.00000  -13.437396 -819.622429   -26.243902
-697.315578   -46.405837   -4448.652

  COMB DL-G2-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.201542  116.908489   52.280666
806.729888  179.707988   1775.663
 0.25000   12.201542  117.351782   52.280666
806.729888  135.616299   1688.802
 0.50000   12.201542  128.231163   52.280666
806.729888   95.897726   1651.610
 0.75000   12.201542  140.232489   52.280666
806.729888   61.184757   1643.300
 1.00000   12.201542  152.938934   52.280666
806.729888   31.348324   1683.397

  COMB DL-G2-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.534994 -879.895729   -29.638712
-832.397925  -112.954320   -6904.655
 0.25000  -13.534994 -857.974242   -29.638712
-832.397925   -88.705152   -6302.137

 0.50000  -13.534994 -835.904628   -29.638712
-832.397925   -68.104563   -5727.692
 0.75000  -13.534994 -814.106742   -29.638712
-832.397925   -53.049080   -5203.645
 1.00000  -13.534994 -793.052816   -29.638712
-832.397925   -41.801658   -4724.724

  COMB DL-G3-1 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    3.648299   66.011154   17.472027
550.257274   69.596727  654.804534
 0.25000    3.648299   66.013470   17.472027
549.027865   55.127418  620.854116
 0.50000    3.648299   66.177563   17.472027
547.820634   40.866748  589.329798
 0.75000    3.648299   66.481705   17.472027
546.638104   27.321237  561.102261
 1.00000    3.648299   66.804926   17.472027
545.479598   16.720779  540.436651
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1160

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-1 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.183166 -139.335044   -5.272400
-419.009349  -14.308348   -1823.053
 0.25000   -6.183166 -138.767955   -5.272400
-419.328250  -10.399044   -1736.442
 0.50000   -6.183166 -138.194801   -5.272400
-420.931193   -6.680638   -1652.391
 0.75000   -6.183166 -137.628781   -5.272400
-422.026827   -3.512164   -1572.149
 1.00000   -6.183166 -137.084382   -5.272400
-423.216650   -3.337517   -1497.109

  COMB DL-G3-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.063128   92.558226   18.985691
911.239158   74.376904  1156.944
 0.25000    9.063128   92.586758   18.985691
901.945798   59.627910  1098.672
 0.50000    9.063128   94.241607   18.985691
892.813515   45.735980  1052.249
 0.75000    9.063128   96.992156   18.985691
883.858327   33.236551  1024.813
 1.00000    9.063128   99.913703   18.985691
875.088981   24.020624  1047.346

  COMB DL-G3-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.794062 -449.333949   -39.152261
-627.695418 -149.287241   -4043.044
 0.25000   -8.794062 -444.220000   -39.152261
-634.651912 -116.905547   -3738.253
 0.50000   -8.794062 -439.056595   -39.152261
-642.266166   -85.323666   -3445.253
 0.75000   -8.794062 -433.956999   -39.152261
-650.559173   -55.465041   -3174.932
 1.00000   -8.794062 -429.049572   -39.152261
-659.582659   -27.759621   -2928.686

  COMB DL-G3-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.062360  117.631666   32.730957
723.064265  105.877963  1579.567
 0.25000   11.062360  118.538435   32.730957
725.479028   79.630143  1504.632
 0.50000   11.062360  131.278333   32.730957
727.949518   57.072910  1489.000
 0.75000   11.062360  145.328949   32.730957
730.523860   39.967430  1502.625
 1.00000   11.062360  160.198406   32.730957
733.258616   29.401243  1551.992

  COMB DL-G3-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.291948 -836.260779   -22.434330
-575.994724   -82.759954   -6179.016
 0.25000  -13.291948 -810.642197   -22.434330
-572.550333   -64.885670   -5635.917
 0.50000  -13.291948 -784.847056   -22.434330
-569.315589   -50.782614   -5125.081
 0.75000  -13.291948 -759.374744   -22.434330
-566.233514   -42.804432   -4652.310
 1.00000  -13.291948 -734.760660   -22.434330
-563.246950   -40.474847   -4216.930

  COMB DL-G3-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.524669  127.460465   64.298941
848.712594  227.080000  1766.689
 0.25000   11.524669  128.147656   64.298941
850.266365  172.889753  1679.379
 0.50000   11.524669  138.620306   64.298941
851.825411  122.396399  1642.937
 0.75000   11.524669  150.168743   64.298941
853.428831   76.416506  1635.314
 1.00000   11.524669  162.394903   64.298941
855.121165   36.504991  1680.959
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1161

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -15.995331 -867.802198   -22.036042
-838.902546   -84.704550   -6795.516
 0.25000  -15.995331 -846.733793   -22.036042
-836.652154   -67.079592   -6217.897
 0.50000  -15.995331 -825.523883   -22.036042
-834.560567   -52.902858   -5671.768
 0.75000  -15.995331 -804.577711   -22.036042
-832.582471   -43.964949   -5151.140
 1.00000  -15.995331 -784.338324   -22.036042
-830.671387   -40.332606   -4683.540

  COMB      DB ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.415815   75.371580   49.048947
758.919220  169.208731  878.121802
 0.25000   11.415815   75.371580   49.048947
747.778046  126.754679  815.061189
 0.50000   11.415815   75.371580   49.048947
736.262272   89.742186  752.040576
 0.75000   11.415815   86.488540   49.048947
724.327445   53.555224  718.155286
 1.00000   11.415815   98.673529   49.048947
711.983789   20.574454  778.300898

  COMB      DB ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.541120 -768.744904   -34.250047
-796.863609  -128.598973   -2844.418
 0.25000  -11.541120 -740.065746   -34.250047
-788.257045   -98.949508   -2681.717
```

```
 0.50000   -11.541120  -711.019484   -34.250047
-779.425187   -70.356977   -2570.588
 0.75000   -11.541120  -682.739683   -34.250047
-770.309037   -47.605700   -2462.890
 1.00000   -11.541120  -655.491185   -34.250047
-760.889310   -28.127073   -2358.567

 COMB      DL ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.532160  129.579148   64.298941
911.239158  227.080000   1787.497
 0.25000   16.532160  129.865244   64.298941
901.945798  172.889753   1699.442
 0.50000   16.532160  140.141628   64.298941
892.813515  122.396399   1659.576
 0.75000   16.532160  151.582153   64.298941
883.858327   76.416506   1649.827
 1.00000   16.532160  165.561758   64.298941
875.088981   36.504991   1695.901

 COMB      DL ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.995331  -922.278271   -50.110298
-992.871695  -186.095820   -6904.655
 0.25000   -15.995331  -896.365214   -50.110298
-985.818367  -144.335219   -6302.137
 0.50000   -15.995331  -870.276758   -50.110298
-978.927650  -105.613787   -5727.692
 0.75000   -15.995331  -844.512785   -50.110298
-972.188537   -72.318040   -5203.645
 1.00000   -15.995331  -819.622429   -50.110298
-965.599777   -46.592659   -4724.724

 COMB      CAR ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.532160  129.579148   64.298941
911.239158  227.080000   1787.497
 0.25000   16.532160  129.865244   64.298941
901.945798  172.889753   1699.442
 0.50000   16.532160  140.141628   64.298941
892.813515  122.396399   1659.576
 0.75000   16.532160  151.582153   64.298941
883.858327   76.416506   1649.827
 1.00000   16.532160  165.561758   64.298941
875.088981   36.504991   1695.901
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD          >
                                 1162

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.995331  -922.278271   -50.110298
-992.871695  -186.095820   -6904.655
 0.25000   -15.995331  -896.365214   -50.110298
-985.818367  -144.335219   -6302.137
 0.50000   -15.995331  -870.276758   -50.110298
-978.927650  -105.613787   -5727.692
 0.75000   -15.995331  -844.512785   -50.110298
-972.188537   -72.318040   -5203.645
 1.00000   -15.995331  -819.622429   -50.110298
-965.599777   -46.592659   -4724.724

 COMB    DESIGN ---------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.532160  129.579148   64.298941
911.239158  227.080000   1787.497
 0.25000   16.532160  129.865244   64.298941
901.945798  172.889753   1699.442
 0.50000   16.532160  140.141628   64.298941
892.813515  122.396399   1659.576
 0.75000   16.532160  151.582153   64.298941
883.858327   76.416506   1649.827
 1.00000   16.532160  165.561758   64.298941
875.088981   36.504991   1695.901

 COMB    DESIGN ---------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.995331  -922.278271   -50.110298
-992.871695  -186.095820   -6904.655
 0.25000   -15.995331  -896.365214   -50.110298
-985.818367  -144.335219   -6302.137
 0.50000   -15.995331  -870.276758   -50.110298
-978.927650  -105.613787   -5727.692
 0.75000   -15.995331  -844.512785   -50.110298
-972.188537   -72.318040   -5203.645
 1.00000   -15.995331  -819.622429   -50.110298
-965.599777   -46.592659   -4724.724

 ELEM      86 ================= LENGTH
=     4.958005

 COMB DB-G1-1 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.392675   27.415968    1.183623
181.053470    5.666490  254.758698
 0.25000    5.392675   27.827718    1.183623
182.086194    8.673294  249.660548
 0.50000    5.392675   28.379998    1.183623
183.290724   11.882587  244.452446
 0.75000    5.392675   28.986159    1.183623
184.529260   15.290308  268.531650
 1.00000    5.392675   29.626671    1.183623
186.163004   18.535592  374.167570

 COMB DB-G1-1 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.035633  -120.622909   -3.442086
-510.358631   -5.600326  -789.178313
 0.25000   -4.035633  -119.937484   -3.442086
-508.704906   -2.917281  -772.710529
 0.50000   -4.035633  -119.271950   -3.442086
-507.488359   -1.286525  -766.830665
 0.75000   -4.035633  -118.644433   -3.442086
-506.262326   -1.889101  -741.206417
 1.00000   -4.035633  -118.073080   -3.442086
-505.016146   -3.279113  -725.857333

 COMB DB-G1-2 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.397076   50.787956    9.778378
284.049954   19.192771  480.992465
 0.25000    7.397076   54.889673    9.778378
293.331524   11.632967  530.032820
 0.50000    7.397076   60.415650    9.778378
304.155649   12.513566  600.620971
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD          >
                                 1163

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000    7.397076   66.480608    9.778378
315.282852   14.676529  747.571136
 1.00000    7.397076   72.882035    9.778378
329.966563   17.069740  988.915338

 COMB DB-G1-2 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.738434  -305.779025   -3.558648
-883.966150   -11.351707   -1520.952
 0.25000   -8.738434  -298.927437   -3.558648
-869.101021   -9.845801   -1468.332
 0.50000   -8.738434  -292.267398   -3.558648
-858.166508   -14.470431   -1416.351
 0.75000   -8.738434  -285.989850   -3.558648
-847.146195   -23.833907   -1364.815
 1.00000   -8.738434  -280.273914   -3.558648
-835.945825   -34.744781   -1313.880

 COMB DB-G1-3 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.735755   75.891269    6.115798
229.730011   16.903716  734.269033
 0.25000   10.735755   98.891775    6.115798
228.960208   13.271301  946.365799
 0.50000   10.735755  131.194253    6.115798
228.960208   15.955206   1161.304
 0.75000   10.735755  166.640650    6.115798
228.960208   19.644900   1398.194
 1.00000   10.735755  203.667438    6.115798
228.960208   23.852859   1676.849

 COMB DB-G1-3 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.102207  -614.642404   -5.215316
-675.315309   -22.900247   -2143.841
 0.25000  -11.102207  -574.782169   -5.215316
-675.315309   -21.115532   -2049.856
 0.50000  -11.102207  -535.963738   -5.215316
-676.673945   -23.638810   -1957.581
 0.75000  -11.102207  -499.332557   -5.215316
-678.799666   -29.370568   -1866.906
 1.00000  -11.102207  -465.967964   -5.215316
-680.992214   -35.372511   -1777.865

 COMB DB-G1-4 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.222220   80.659134    5.836684
477.008348   16.929311  778.253955
 0.25000   11.222220   99.579767    5.836684
477.008348   13.820506  963.918523
 0.50000   11.222220  126.145514    5.836684
477.008348   17.660279   1171.212
 0.75000   11.222220  155.292006    5.836684
477.008348   26.296107   1460.705
 1.00000   11.222220  185.739068    5.836684
477.008348   35.502470   1805.653

 COMB DB-G1-4 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.506249  -619.328227   -9.087685
-655.284610   -27.843473   -2354.213
 0.25000  -10.506249  -586.550949   -9.087685
-655.284610   -21.543143   -2252.911
 0.50000  -10.506249  -554.630609   -9.087685
-655.284610   -23.143984   -2153.068
 0.75000  -10.506249  -524.509472   -9.087685
-655.284610   -28.512927   -2054.659
 1.00000  -10.506249  -497.072854   -9.087685
-655.284610   -34.249799   -1957.646

 COMB DB-G2-1 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.562603   30.895784    9.521466
82.328804   15.569505  303.506009
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD          >
                                 1164

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000    3.562603   43.725507    9.521466
99.480722    5.271831  434.327016
 0.50000    3.562603   61.297819    9.521466
119.464157    3.254508  578.143000
 0.75000    3.562603   80.582245    9.521466
139.973899    2.784198  715.224851
 1.00000    3.562603  100.851684    9.521466
167.116026    2.315460  840.345829

 COMB DB-G2-1 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.531505  -305.037171   -0.223727
-362.344462   -8.525926  -879.457301
 0.25000   -5.531505  -293.439410   -0.223727
-334.841783   -11.262367   -829.939088
 0.50000   -5.531505  -262.138512   -0.223727
-314.621878   -17.548020  -781.210322
 0.75000   -5.531505  -242.190816   -0.223727
-294.232805   -26.706763  -733.421273
 1.00000   -5.531505  -224.024831   -0.223727
-273.518771   -36.758807  -686.342086

 COMB DB-G2-2 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.090134   59.586594    6.034477
171.793468   14.245689  592.740506
 0.25000    8.090134   84.710373    6.034477
171.793468    8.038649  855.890652
 0.50000    8.090134  119.983271    6.034477
171.793468   11.123489   1140.689
 0.75000    8.090134  158.681049    6.034477
171.793468   17.680562   1467.020
 1.00000    8.090134  199.105972    6.034477
171.793468   23.502640   1646.816

 COMB DB-G2-2 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.931219  -599.945919   -6.162483
-194.580689   -25.813169   -1698.903
 0.25000   -8.931219  -556.427041   -6.162483
-194.580689   -23.719254   -1602.577
 0.50000   -8.931219  -514.046025   -6.162483
-194.580689   -26.552573   -1507.901
 0.75000   -8.931219  -474.007207   -6.162483
-194.580689   -32.796187   -1415.141
 1.00000   -8.931219  -437.625788   -6.162483
-194.580689   -39.417648   -1323.864

 COMB DB-G2-3 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.826276   75.487594    8.865067
288.189768   16.658596  735.738810
 0.25000    9.826276   98.369745    8.865067
288.189768    9.696056  963.826444
 0.50000    9.826276  130.459877    8.865067
288.189768   11.894584   1207.942
 0.75000    9.826276  165.673960    8.865067
288.189768   18.030721   1512.819
 1.00000    9.826276  202.467768    8.865067
288.189768   25.068109   1827.999

 COMB DB-G2-3 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.671576  -643.802575   -7.091217
-558.208134   -27.516675   -2188.925
 0.25000   -9.671576  -604.199948   -7.091217
-558.208134   -23.688089   -2082.709
 0.50000   -9.671576  -565.633048   -7.091217
-558.208134   -29.453710   -1977.989
 0.75000   -9.671576  -529.240838   -7.091217
-558.208134   -39.409267   -1875.144
 1.00000   -9.671576  -496.089981   -7.091217
-558.208137   -49.717485   -1773.661
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD          >
                                 1165

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.261919   80.499971    8.610365
539.904087   16.401776  775.554824
 0.25000    9.261919   99.762661    8.610365
539.904087   10.538240  958.505413
 0.50000    9.261919  126.806797    8.610365
539.904087   12.019748   1151.895
 0.75000    9.261919  156.476828    8.610365
539.904087   18.175971   1469.522
 1.00000    9.261919  187.471081    8.610365
539.904087   25.615905   1815.646

 COMB DB-G2-4 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.435802  -622.475613   -7.259363
-561.624054   -25.595282   -2358.420
 0.25000   -9.435802  -589.109189   -7.259363
-561.624054   -20.895329   -2255.291
 0.50000   -9.435802  -556.615177   -7.259363
-561.624054   -26.670254   -2153.411
 0.75000   -9.435802  -525.952876   -7.259363
-561.624054   -36.472891   -2053.240
 1.00000   -9.435802  -498.022904   -7.259363
-561.624054   -46.555810   -1954.207

 COMB DB-G3-1 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.070223   26.929053    2.547090
491.416300    7.771759  250.541078
 0.25000    3.070223   27.380735    2.547090
489.361221    5.927559  246.699880
 0.50000    3.070223   28.048451    2.547090
487.848074    4.456181  242.630548
 0.75000    3.070223   28.780939    2.547090
486.323215    4.023089  289.115789
 1.00000    3.070223   29.541496    2.547090
484.773684    5.108117  401.533232

 COMB DB-G3-1 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.033229  -125.106732   -1.109338
-158.064577   -1.483087  -787.399064
 0.25000   -3.033229  -124.287461   -1.109338
-159.351027   -2.838298  -772.003115
 0.50000   -3.033229  -123.487260   -1.109338
-160.855511   -4.669061  -756.967864
 0.75000   -3.033229  -122.731569   -1.109338
-162.408713   -6.647413  -741.964953
 1.00000   -3.033229  -122.045769   -1.109338
-164.443108   -9.307310  -727.412922

 COMB DB-G3-2 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.431068   49.652149    3.194984
838.180976    9.710466  476.632647
 0.25000    6.431068   54.513230    3.194984
819.113470    8.133342  538.451165
 0.50000    6.431068   61.648167    3.194984
805.072919   12.112568  619.561566
 0.75000    6.431068   69.475495    3.194984
790.924244   20.129127  789.967285
 1.00000    6.431068   77.607531    3.194984
776.550527   29.778446   1032.561

 COMB DB-G3-2 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.274017  -319.692725   -8.155940
-255.484001   -16.754977   -1496.001
 0.25000   -5.274017  -310.931621   -8.155940
-267.419977   -11.302018   -1444.556
 0.50000   -5.274017  -302.377838   -8.155940
-281.384054   -9.648574   -1393.526
 0.75000   -5.274017  -294.300703   -8.155940
-295.804164   -12.398934   -1343.041
 1.00000   -5.274017  -286.966925   -8.155940
-314.683382   -15.812508   -1293.425
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD          >
                                 1166

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.462334   74.520825    3.604552
614.317262   12.476540  723.329185
 0.25000    9.462334   97.759301    3.604552
614.317262   10.573700  939.789592
 0.50000    9.462334  130.335256    3.604552
614.317262   12.828440   1159.561
 0.75000    9.462334  166.083169    3.604552
614.317262   17.617811   1416.701
 1.00000    9.462334  203.437715    3.604552
614.317262   23.901608   1697.955

 COMB DB-G3-3 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.693910  -617.486624   -5.985459
-225.260595   -23.285662   -2112.673
 0.25000   -8.693910  -577.282633   -5.985459
-225.260595   -21.430414   -2020.548
 0.50000   -8.693910  -538.130279   -5.985459
-225.260595   -21.825577   -1929.917
 0.75000   -8.693910  -501.186072   -5.985459
-225.260595   -25.457624   -1840.905
 1.00000   -8.693910  -467.531296   -5.985459
-225.260600   -29.369860   -1753.701

 COMB DB-G3-4 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    9.313988   80.157868   10.426310
610.317404   19.284919  773.256747
 0.25000    9.313988   99.168246   10.426310
610.317404   11.249931  958.548883
 0.50000    9.313988  125.857086   10.426310
610.317404   12.600769   1158.952
 0.75000    9.313988  155.136576   10.426310
610.317404   16.256503   1460.842
 1.00000    9.313988  185.726649   10.426310
610.317404   21.438606   1805.451

 COMB DB-G3-4 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.618440  -619.019258   -5.795194
-495.344099   -23.257607   -2343.513
 0.25000  -10.618440  -586.091810   -5.795194
-495.344099   -21.317912   -2243.427
 0.50000  -10.618440  -554.025336   -5.795194
-495.344099   -28.261945   -2144.584
 0.75000  -10.618440  -523.766570   -5.795194
-495.344099   -40.166628   -2047.170
 1.00000  -10.618440  -496.203936   -5.795194
-495.344099   -52.448213   -1951.255

 COMB DL-G1-1 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   11.234042   47.773454    2.132578
283.824181   12.361936  554.717303
 0.25000   11.234042   48.106892    2.132578
284.742920   15.118439  528.311113
 0.50000   11.234042   48.488830    2.132578
285.751038   20.064278  515.331823
 0.75000   11.234042   48.903754    2.132578
286.852505   27.217501  532.137462
 1.00000   11.234042   49.334099    2.132578
288.048461   35.244613  581.305065

 COMB DL-G1-1 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.681279  -155.941176   -7.847560
-646.829411   -10.495536   -1510.358
 0.25000   -4.681279  -155.359055   -7.847560
-645.494056   -5.168188   -1363.060
 0.50000   -4.681279  -154.783600   -7.847560
-644.222485   -2.451931   -1232.511
 0.75000   -4.681279  -154.232031   -7.847560
-643.010321   -2.765841   -1121.482
 1.00000   -4.681279  -153.722561   -7.847560
-641.865335   -4.284177   -1030.436
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD          >
                                 1167

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   13.161380   87.069376   12.585432
438.290473   29.886802   1074.654
 0.25000   13.161380   89.841143   12.585432
444.831321   21.959345   1044.549
 0.50000   13.161380   93.017460   12.585432
452.008125   22.507596   1051.317
 0.75000   13.161380   96.468676   12.585432
459.851838   27.027339   1125.017
 1.00000   13.161380  100.048043   12.585432
468.364115   32.741907   1248.898

 COMB DL-G1-2 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.793580  -373.901023   -7.032152
-1057.616   -20.735906   -2986.197
 0.25000  -11.793580  -369.056911   -7.032152
-1048.091   -18.813057   -2652.899
 0.50000  -11.793580  -364.266591   -7.032152
-1039.019   -24.684382   -2359.282
 0.75000  -11.793580  -359.678517   -7.032152
-1030.373   -35.872309   -2103.631
 1.00000  -11.793580  -355.439021   -7.032152
-1022.201   -48.662632   -1886.943

 COMB DL-G1-3 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.640164  135.208063    9.100951
392.861594   32.031485   1599.824
 0.25000   15.640164  153.902065    9.100951
387.585655   28.037481   1645.960
 0.50000   15.640164  175.331453    9.100951
382.599116   30.303668   1712.197
 0.75000   15.640164  198.657913    9.100951
377.917172   35.686667   1817.551
 1.00000   15.640164  222.785260    9.100951
373.558198   42.421734   1945.536

 COMB DL-G1-3 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -13.870798  -687.883119   -8.307817
-853.576851   -40.716507   -4338.286
 0.25000  -13.870798  -655.091252   -8.307817
-857.818666   -37.459250   -3818.300
 0.50000  -13.870798  -622.654631   -8.307817
-862.476223   -40.076521   -3360.649
 0.75000  -13.870798  -591.615534   -8.307817
-867.545376   -46.771114   -2958.675
 1.00000  -13.870798  -562.928363   -8.307817
-873.018666   -54.754218   -2610.604

 COMB DL-G1-4 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.298453  139.690356    8.602605
650.588766   32.444825   1695.844
 0.25000   16.298453  155.075378    8.602605
646.956733   29.206278   1672.721
 0.50000   16.298453  172.710544    8.602605
643.529286   33.733089   1786.964
 0.75000   16.298453  191.903425    8.602605
640.318000   43.812314   1917.830
 1.00000   16.298453  211.762126    8.602605
637.339052   55.666205   2084.734

 COMB DL-G1-4 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -13.286180  -707.593302  -12.314839
-841.862779   -46.630355   -4687.378
 0.25000  -13.286180  -680.614605  -12.314839
-844.859637   -38.689282   -4126.023
 0.50000  -13.286180  -653.922261  -12.314839
-848.150248   -39.178590   -3632.313
 0.75000  -13.286180  -628.380256  -12.314839
-851.729615   -45.143504   -3200.014
 1.00000  -13.286180  -604.773381  -12.314839
-855.590372   -52.587776   -2827.530
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD          >
                                 1168

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ----------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.746737   55.432139   11.071907
125.294867   19.235050  662.420639
 0.25000    3.746737   65.887936   11.071907
141.711820   10.053631  700.630400
 0.50000    3.746737   77.870960   11.071907
159.751967    6.526076  747.661178
 0.75000    3.746737   90.892332   11.071907
179.452521    5.360308  802.590906
 1.00000    3.746737  104.398401   11.071907
200.831304    4.393378  858.122313

 COMB DL-G2-1 ----------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.832559  -328.266264   -0.240438
-390.504888   -16.679186   -1788.181
 0.25000   -8.832559  -309.979203   -0.240438
-366.438324   -21.027948   -1554.373
```

0.50000 -8.832559 -291.887376 -0.240438
-343.476169 -29.605856 -1349.350
0.75000 -8.832559 -274.560124 -0.240438
-321.660526 -40.792492 -1166.735
1.00000 -8.832559 -258.549782 -0.240438
-300.982616 -52.546335 -1005.514

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.807870 107.468450 7.412003
212.170512 23.724355 1296.413
0.25000 8.807870 128.378798 7.412003
212.170512 18.864772 1376.084
0.50000 8.807870 152.341127 7.412003
212.170512 20.609920 1472.129
0.75000 8.807870 178.419694 7.412003
212.170512 23.039822 1582.251
1.00000 8.807870 205.401153 7.412003
212.170512 30.515676 1692.418

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.391568 -648.523290 -6.363726
-237.965176 -44.125355 -3488.773
0.25000 -11.391568 -611.863764 -6.363726
-237.965176 -41.625628 -3029.592
0.50000 -11.391568 -575.601562 -6.363726
-237.965176 -44.741114 -2627.358
0.75000 -11.391568 -540.903848 -6.363726
-237.965176 -51.042482 -2269.494
1.00000 -11.391568 -508.825629 -6.363726
-237.965176 -58.055334 -1953.984

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.439242 131.921478 11.066531
399.069879 31.896766 1603.388
0.25000 12.439242 151.018378 11.066531
399.069879 23.620988 1657.034
0.50000 12.439242 172.900906 11.066531
399.069879 23.443489 1738.550
0.75000 12.439242 196.715898 11.066531
399.069879 27.741748 1871.123
1.00000 12.439242 221.355284 11.066531
399.069879 34.369036 2017.439

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.159462 -721.682371 -8.253120
-697.062926 -46.678656 -4448.352
0.25000 -13.159462 -688.206497 -8.253120
-696.438038 -41.505983 -3921.603
0.50000 -13.159462 -655.093484 -8.253120
-695.813150 -45.637404 -3458.664
0.75000 -13.159462 -623.409549 -8.253120
-695.188262 -54.433387 -3050.731
1.00000 -13.159462 -594.115495 -8.253120
-694.563374 -61.025736 -2695.295
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1169

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.916308 137.943287 10.952304
699.503903 31.316043 1683.386
0.25000 11.916308 154.090105 10.952304
699.503903 24.352303 1714.969
0.50000 11.916308 172.593641 10.952304
699.503903 24.979250 1783.181
0.75000 11.916308 192.731320 10.952304
699.503903 30.400567 1923.860
1.00000 11.916308 213.566207 10.952304
699.503903 37.826366 2087.112

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.280529 -713.729502 -8.415074
-724.412691 -41.068996 -4725.112
0.25000 -13.280529 -685.421283 -8.415074
-724.412691 -36.455036 -4177.585
0.50000 -13.280529 -657.412875 -8.415074
-724.412691 -41.405052 -3695.843
0.75000 -13.280529 -630.626553 -8.415074
-724.412691 -50.926474 -3274.562
1.00000 -13.280529 -605.855986 -8.415074
-724.412691 -61.916291 -2911.190

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.518384 46.142166 5.503241
610.526722 16.468621 540.482569
0.25000 3.518384 46.547046 5.503241
608.867924 1.714352 517.275442
0.50000 3.518384 47.013767 5.503241
607.285236 9.619533 508.382495
0.75000 3.518384 47.521478 5.503241
605.785715 9.032364 536.162741
1.00000 3.518384 48.047276 5.503241
604.370524 10.102410 591.578408

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.062186 -159.347717 -1.426480
-239.890668 -2.660644 -1498.133
0.25000 -6.062186 -158.631217 -1.426480
-241.056087 -3.667797 -1350.354
0.50000 -6.062186 -157.923181 -1.426480
-242.336909 -7.110374 -1220.361
0.75000 -6.062186 -157.244205 -1.426480
-243.733876 -12.175833 -1110.531
1.00000 -6.062186 -156.619808 -1.426480
-245.251457 -18.203682 -1021.249

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.922667 83.797722 5.853808
973.331904 22.973076 1047.302
0.25000 8.922667 87.466044 5.853808
960.764961 18.921321 1028.209
0.50000 8.922667 91.690392 5.853808
948.816552 22.573690 1044.980
0.75000 8.922667 96.286741 5.853808
937.472218 30.468243 1131.596
1.00000 8.922667 101.045970 5.853808
926.773532 40.983968 1260.415

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.583673 -382.486749 -10.014371
-374.317220 -26.687906 -2930.175
0.25000 -8.583673 -376.004350 -10.014371
-383.155455 -18.602211 -2602.844
0.50000 -8.583673 -369.597751 -10.014371
-392.866373 -17.506232 -2316.022
0.75000 -8.583673 -363.458589 -10.014371
-403.454936 -20.995113 -2067.386
1.00000 -8.583673 -357.804308 -10.014371
-414.960490 -26.478009 -1857.349
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1170

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.643745 130.657824 6.855948
770.838600 28.974677 1552.033
0.25000 10.643745 149.574775 6.855948
773.473540 24.987239 1604.481
0.50000 10.643745 171.244904 6.855948
776.369536 26.205614 1676.335
0.75000 10.643745 194.826385 6.855948
779.543243 30.531221 1790.657
1.00000 10.643745 219.227769 6.855948
783.020998 36.740254 1921.061

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.880616 -681.484208 -6.894748
-363.873984 -39.135638 -4218.122
0.25000 -12.880616 -648.339958 -6.894748
-359.254023 -36.063194 -3708.469
0.50000 -12.880616 -615.566355 -6.894748
-354.813441 -41.940805 -3261.307
0.75000 -12.880616 -584.136916 -6.894748
-350.542764 -42.984826 -2869.528
1.00000 -12.880616 -555.177132 -6.894748
-346.431535 -49.479063 -2531.188

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.195643 138.417975 14.010808
795.082910 37.183415 1680.993
0.25000 11.195643 153.966770 14.010808
796.704557 26.164491 1708.584
0.50000 11.195643 171.779705 14.010808
798.486772 25.591071 1774.008
0.75000 11.195643 191.165491 14.010808
800.443126 28.112724 1909.933
1.00000 11.195643 211.222044 14.010808
802.592523 33.036836 2076.756

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.715723 -705.988134 -6.868028
-673.279729 -39.659602 -4684.167
0.25000 -15.715723 -678.742166 -6.868028
-670.264926 -37.058376 -4137.377
0.50000 -15.715723 -651.802636 -6.868028
-667.360956 -45.860208 -3656.874
0.75000 -15.715723 -626.005289 -6.868028
-664.557668 -58.366134 -3236.452
1.00000 -15.715723 -602.159185 -6.868028
-661.847315 -72.883276 -2874.609

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.222220 80.659134 10.426310
839.180976 28.884919 778.253955
0.25000 11.222220 99.762661 10.426310
819.113470 13.820506 963.918523
0.50000 11.222220 131.194253 10.426310
805.072919 17.660279 1207.942
0.75000 11.222220 166.640650 10.426310
790.924244 26.296107 1512.819
1.00000 11.222220 203.667438 10.426310
776.550527 35.502470 1827.999

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.102207 -643.802575 -9.087685
-883.966150 -27.843473 -2358.420
0.25000 -11.102207 -604.199948 -9.087685
-869.101021 -23.719254 -2255.291
0.50000 -11.102207 -565.633048 -9.087685
-858.166508 -29.453710 -2153.411
0.75000 -11.102207 -529.240838 -9.087685
-847.146195 -40.166628 -2054.659
1.00000 -11.102207 -498.022904 -9.087685
-835.945825 -52.448213 -1957.646
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1171

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.298453 139.690356 14.010808
973.331904 37.183415 1695.844
0.25000 16.298453 155.075378 14.010808
960.764961 29.206278 1721.271
0.50000 16.298453 175.331453 14.010808
948.816552 33.733089 1786.964
0.75000 16.298453 198.653773 14.010808
937.472218 43.812314 1923.860
1.00000 16.298453 222.785260 14.010808
926.773532 55.666205 2087.112

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.715723 -721.682371 -12.314839
-1057.616 -46.678656 -4725.112
0.25000 -15.715723 -688.206497 -12.314839
-1048.091 -41.625628 -4177.585
0.50000 -15.715723 -657.419875 -12.314839
-1039.019 -45.860208 -3695.843
0.75000 -15.715723 -630.626553 -12.314839
-1030.373 -58.366134 -3274.562
1.00000 -15.715723 -605.855986 -12.314839
-1022.201 -72.883276 -2911.190

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.298453 139.690356 14.010808
973.331904 37.183415 1695.844
0.25000 16.298453 155.075378 14.010808
960.764961 29.206278 1721.271
0.50000 16.298453 175.331453 14.010808
948.816552 33.733089 1786.964
0.75000 16.298453 198.653773 14.010808
937.472218 43.812314 1923.860
1.00000 16.298453 222.785260 14.010808
926.773532 55.666205 2087.112

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.715723 -721.682371 -12.314839
-1057.616 -46.678656 -4725.112
0.25000 -15.715723 -688.206497 -12.314839
-1048.091 -41.625628 -4177.585
0.50000 -15.715723 -657.419875 -12.314839
-1039.019 -45.860208 -3695.843
0.75000 -15.715723 -630.626553 -12.314839
-1030.373 -58.366134 -3274.562
1.00000 -15.715723 -605.855986 -12.314839
-1022.201 -72.883276 -2911.190

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.298453 139.690356 14.010808
973.331904 37.183415 1695.844
0.25000 16.298453 155.075378 14.010808
960.764961 29.206278 1721.271
0.50000 16.298453 175.331453 14.010808
948.816552 33.733089 1786.964
0.75000 16.298453 198.653773 14.010808
937.472218 43.812314 1923.860
1.00000 16.298453 222.785260 14.010808
926.773532 55.666205 2087.112

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.715723 -721.682371 -12.314839
-1057.616 -46.678656 -4725.112
0.25000 -15.715723 -688.206497 -12.314839
-1048.091 -41.625628 -4177.585
0.50000 -15.715723 -657.419875 -12.314839
-1039.019 -45.860208 -3695.843
0.75000 -15.715723 -630.626553 -12.314839
-1030.373 -58.366134 -3274.562
1.00000 -15.715723 -605.855986 -12.314839
-1022.201 -72.883276 -2911.190
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1172

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 87 ========== LENGTH = 4.957746

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.480580 28.074089 2.696918
67.724472 17.391154 375.647615
0.25000 5.480580 28.577110 2.696918
68.918940 15.366560 453.560266
0.50000 5.480580 29.147884 2.696918
70.122538 13.362863 544.573173
0.75000 5.480580 29.770411 2.696918
71.343265 11.614874 645.736256
1.00000 5.480580 30.427277 2.696918
73.006000 10.566394 753.508271

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.889380 -112.215117 -0.157699
-503.080952 -1.725273 -726.279574
0.25000 -3.889380 -111.548809 -0.157699
-501.411874 -1.723749 -700.185963
0.50000 -3.889380 -110.903537 -0.157699
-500.181200 -1.740839 -674.096277
0.75000 -3.889380 -110.298221 -0.157699
-498.948842 -1.853093 -648.008209
1.00000 -3.889380 -109.751201 -0.157699
-497.706189 -3.526311 -621.954992

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.376699 66.158994 2.713643
134.792302 18.244696 991.092828
0.25000 7.376699 71.190478 2.713643
145.529430 16.194649 1120.482
0.50000 7.376699 76.897318 2.713643
156.549231 14.517037 1275.393
0.75000 7.376699 83.121460 2.713643
167.323985 13.349802 1462.318
1.00000 7.376699 89.686897 2.713643
182.278117 13.803245 1670.512

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.662670 -268.238311 -2.688955
-868.095169 -33.336695 -1314.497
0.25000 -8.662670 -261.578603 -2.688955
-853.079530 -30.340544 -1263.083
0.50000 -8.662670 -255.126709 -2.688955
-842.005270 -27.637498 -1211.741
0.75000 -8.662670 -249.074062 -2.688955
-830.916382 -25.499051 -1160.413
1.00000 -8.662670 -243.604377 -2.688955
-819.735919 -24.063272 -1109.085

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.481432 129.294614 2.818241
96.166784 26.059654 1678.572
0.25000 10.481432 155.592801 2.818241
96.166784 24.794541 1935.949
0.50000 10.481432 191.729052 2.818241
96.166784 24.538316 2170.616
0.75000 10.481432 227.860320 2.818241
96.166784 25.486468 2386.764
1.00000 10.481432 265.865028 2.818241
96.166784 27.910449 2581.753

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.710299 -535.988667 -4.916788
-660.866355 -35.218532 -1778.335
0.25000 -10.710299 -497.443663 -4.916788
-662.916197 -31.594556 -1705.452
0.50000 -10.710299 -459.971783 -4.916788
-664.568790 -28.189722 -1632.831
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1173

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -10.710299 -424.804060 -4.916788
-666.473678 -25.335443 -1560.222
1.00000 -10.710299 -393.028976 -4.916788
-669.532843 -23.089790 -1487.612

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.053433 129.119556 3.507887
360.671007 37.303127 1806.306
0.25000 11.053433 153.212858 3.507887
360.671007 34.838760 2056.319
0.50000 11.053433 180.462140 3.507887
360.671007 33.202577 2302.860
0.75000 11.053433 210.174815 3.507887
360.671007 32.569540 2555.897
1.00000 11.053433 241.428408 3.507887
360.671007 33.266150 2810.449

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.160740 -535.978247 -4.660758
-597.431759 -33.512036 -1957.786
0.25000 -10.160740 -504.280342 -4.660758
-597.431759 -30.366413 -1877.727
0.50000 -10.160740 -473.465427 -4.660758
-597.431759 -27.408191 -1797.884
0.75000 -10.160740 -444.545847 -4.660758
-597.901063 -24.910299 -1718.051
1.00000 -10.160740 -418.414372 -4.660758
-598.637669 -22.916677 -1638.218

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.343547 63.046850 0.324205
69.384353 2.405973 840.931115
0.25000 3.343547 79.027620 0.324205
89.252763 2.219001 943.244483
0.50000 3.343547 97.125843 0.324205
109.280096 2.560575 1031.094
0.75000 3.343547 116.862833 0.324205
129.607597 4.509723 1112.489
1.00000 3.343547 137.658190 0.324205
157.378709 7.439666 1184.265

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.418878 -261.114136 -3.689269
-355.223192 -36.844987 -686.464706
0.25000 -5.418878 -240.021380 -3.689269
-327.279578 -33.213890 -656.039041
0.50000 -5.418878 -219.558143 -3.689269
-306.635995 -29.582598 -625.767207
0.75000 -5.418878 -200.358099 -3.689269
-285.971848 -26.000009 -595.526033
1.00000 -5.418878 -183.007917 -3.689269
-265.151041 -22.435275 -565.284859

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.744778 124.472654 1.568664
157.570885 24.587552 1646.774
0.25000 7.744778 156.462136 1.568664
157.570885 23.944097 1849.104
0.50000 7.744778 192.641829 1.568664
157.570885 24.041776 2020.451
0.75000 7.744778 232.092414 1.568664
157.570885 25.194679 2175.408
1.00000 7.744778 273.589031 1.568664
157.570885 27.904375 2308.994

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.606628 -512.412307 -5.836817
-179.852445 -39.680777 -1323.791
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1174

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -8.606628 -470.325761 -5.836817
-179.852445 -35.563981 -1265.317
0.50000 -8.606628 -429.411770 -5.836817
-179.852445 -31.457575 -1207.130
0.75000 -8.606628 -391.014466 -5.836817
-179.852445 -27.359343 -1148.957
1.00000 -8.606628 -356.318369 -5.836817
-179.852445 -23.272713 -1090.784

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.567722 133.227484 1.968451
188.341206 27.798802 1829.057
0.25000 9.567722 162.339521 1.968451
188.341206 26.894651 2073.323
0.50000 9.567722 195.264612 1.968451
188.341206 26.756205 2298.092
0.75000 9.567722 231.166837 1.968451
188.341206 27.629864 2518.965
1.00000 9.567722 268.931359 1.968451
188.341206 29.858449 2730.443

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.302713 -553.407607 -6.295184
-539.021456 -49.691558 -1773.905
0.25000 -9.302713 -515.106219 -6.295184
-539.012296 -44.711828 -1699.012
0.50000 -9.302713 -477.872436 -6.295184
-538.930664 -39.738686 -1624.375
0.75000 -9.302713 -442.929493 -6.295184
-538.887514 -34.777869 -1549.752
1.00000 -9.302713 -411.352968 -6.295184
-538.887530 -29.825619 -1475.128

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.974740 128.147806 2.086588
451.018697 27.778934 1815.570
0.25000 8.974740 152.674509 2.086588
451.018697 26.252301 2071.098
0.50000 8.974740 180.413896 2.086588
451.018697 25.913967 2317.169
0.75000 8.974740 210.661112 2.086588
451.018697 26.192849 2569.075
1.00000 8.974740 242.477046 2.086588
451.018697 27.611564 2821.672

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.159972 -537.850742 -5.521226
-476.702938 -46.104910 -1954.127
0.25000 -9.159972 -505.582504 -5.521226
-476.702938 -41.918470 -1873.668
0.50000 -9.159972 -474.213277 -5.521226
-476.702938 -37.739937 -1793.425
0.75000 -9.159972 -444.773623 -5.521226
-476.702938 -33.566251 -1713.192
1.00000 -9.159972 -418.171727 -5.521226
-476.702938 -29.399420 -1632.959

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.924070 28.020352 1.395641
482.345378 3.691979 399.898042
0.25000 2.924070 28.618861 1.395641
480.301542 3.696630 479.335726
0.50000 2.924070 29.298842 1.395641
478.800952 3.852357 572.219122
0.75000 2.924070 30.040117 1.395641
477.297073 4.012633 676.456884
1.00000 2.924070 30.817384 1.395641
475.778050 4.190983 788.503012
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1175

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.877162 -116.384674 -0.620666
-57.967941 -8.417406 -726.967750
0.25000 -2.877162 -115.596480 -0.620666
-59.451570 -8.495246 -700.594304

```
 0.50000    -2.877162  -114.827293    -0.620666
-60.945207    -8.923473  -674.223630
 0.75000    -2.877162  -114.105105    -0.620666
-62.457755    -9.785704  -647.852956
 1.00000    -2.877162  -113.455568    -0.620666
-64.504525   -10.979534  -621.608653

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.332649    68.433088     3.129546
821.608214    28.078928    1030.252
 0.25000    6.332649    74.838248     3.129546
802.666016    25.946399    1164.896
 0.50000    6.332649    82.111440     3.129546
788.763110    23.940977    1321.138
 0.75000    6.332649    90.040505     3.129546
774.828863    21.943234    1505.840
 1.00000    6.332649    98.358118     3.129546
760.752468    20.424969    1709.541

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.104443  -279.372941    -1.986340
-131.158041   -13.803591    -1292.746
 0.25000   -5.104443  -270.938229    -1.986340
-144.923029   -13.349651    -1242.160
 0.50000   -5.104443  -262.711199    -1.986340
-158.779949   -12.986737    -1191.606
 0.75000   -5.104443  -254.987307    -1.986340
-172.810672   -12.688227    -1141.052
 1.00000   -5.104443  -248.036050    -1.986340
-191.787606   -13.052834    -1090.586

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    9.046562   129.144686     2.377351
602.443015    23.519067    1696.128
 0.25000    9.046562   158.699673     2.377351
602.443015    23.191640    1953.452
 0.50000    9.046562   192.125559     2.377351
602.443015    23.821473    2187.063
 0.75000    9.046562   228.574194     2.377351
602.443015    25.380503    2402.294
 1.00000    9.046562   266.913672     2.377351
602.443015    27.843627    2596.586

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -8.327304  -538.055228    -4.719653
-113.173484   -28.804729    -1753.116
 0.25000   -8.327304  -499.170715    -4.719653
-112.580329   -26.246634    -1681.141
 0.50000   -8.327304  -461.370410    -4.719653
-111.849734   -24.107242    -1609.410
 0.75000   -8.327304  -425.896167    -4.719653
-111.228021   -21.774783    -1537.693
 1.00000   -8.327304  -393.838273    -4.719653
-110.663231   -19.771244    -1466.050

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.955826   128.512377     2.224591
545.445161    21.760332    1804.707
 0.25000    8.955826   152.716595     2.224591
545.445161    21.389707    2056.537
 0.50000    8.955826   180.091217     2.224591
545.445161    21.816018    2303.565
 0.75000    8.955826   209.940764     2.224591
545.445161    23.049641    2556.938
 1.00000    8.955826   241.338449     2.224591
545.445161    25.419132    2811.105
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1176

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -10.377153  -536.303947    -5.942304
-391.710339   -51.716577    -1950.991
 0.25000  -10.377153  -504.459905    -5.942304
-391.710339   -47.241865    -1871.039
 0.50000  -10.377153  -473.503132    -5.942304
-391.710339   -42.776863    -1791.302
 0.75000  -10.377153  -444.450641    -5.942304
-391.710339   -38.320588    -1711.576
 1.00000  -10.377153  -418.198315    -5.942304
-391.710339   -34.135152    -1631.912

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.314854   44.357531     4.185609
143.584305   34.480740   582.441760
 0.25000   11.314854   44.721197     4.185609
144.529992   30.133672   624.093400
 0.50000   11.314854   45.132144     4.185609
145.556407   26.043058   686.065801
 0.75000   11.314854   45.575158     4.185609
146.663076   22.486911   769.136880
 1.00000   11.314854   46.032379     4.185609
147.851070   19.486374   893.079952

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.540736  -148.565369    -0.237568
-610.332395   -2.836002    -1029.668
 0.25000   -4.540736  -148.026147    -0.237568
-608.985815   -2.900794   -939.236850
 0.50000   -4.540736  -147.492861    -0.237568
-607.713201   -3.167421   -880.847884
 0.75000   -4.540736  -146.984304    -0.237568
-606.517000   -3.976388   -841.938382
 1.00000   -4.540736  -146.516897    -0.237568
-605.395653   -6.098044   -842.403158

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   13.118235   100.544899     4.234061
252.041813   32.933803    1250.493
 0.25000   13.118235   103.569481     4.234061
258.771282   28.610088    1309.878
 0.50000   13.118235   106.987217     4.234061
266.082815   24.741624    1411.997
 0.75000   13.118235   110.671674     4.234061
273.969809   21.672260    1565.190
 1.00000   13.118235   114.474182     4.234061
282.434365   20.266969    1798.110

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.713306  -317.948065    -4.256109
-986.798286   -46.756995    -1885.747
 0.25000  -11.713306  -313.464043    -4.256109
-977.179588   -42.071246    -1706.784
 0.50000  -11.713306  -309.029421    -4.256109
-968.098551   -37.750943    -1583.560
 0.75000  -11.713306  -304.800104    -4.256109
-959.548944   -34.164607    -1502.821
 1.00000  -11.713306  -300.913188    -4.256109
-951.544449   -31.879886    -1496.739

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   15.371362   172.247393     4.585709
229.080481   42.917313    1946.846
 0.25000   15.371362   192.643181     4.585709
224.132403   39.056582    2081.604
 0.50000   15.371362   215.692583     4.585709
219.524601   36.158582    2236.191
 0.75000   15.371362   240.544552     4.585709
215.247561   34.506384    2417.982
 1.00000   15.371362   266.190634     4.585709
211.296502   34.527270    2671.462
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1177

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -13.546147  -566.669939    -6.362279
-795.771433   -52.789034    -2609.645
 0.25000  -13.546147  -536.420511    -6.362279
-799.963728   -46.969139    -2346.848
 0.50000  -13.546147  -506.546858    -6.362279
-804.475498   -41.804471    -2160.866
 0.75000  -13.546147  -478.042524    -6.362279
-809.311947   -37.403681    -2041.079
 1.00000  -13.546147  -451.854816    -6.362279
-814.483652   -34.173513    -2026.150

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.103004   176.697669     5.175761
488.756297   55.312419    2085.267
 0.25000   16.103004   193.483235     5.175761
485.399043   50.630252    2211.504
 0.50000   16.103004   212.451652     5.175761
482.279424   46.765196    2376.250
 0.75000   16.103004   232.903482     5.175761
479.392274   43.938031    2589.262
 1.00000   16.103004   254.008854     5.175761
476.733007   42.513014    2890.471

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.993347  -578.209707    -5.853601
-737.495060   -49.726260    -2827.128
 0.25000  -12.993347  -553.315846    -5.853601
-740.436103   -44.620502    -2545.043
 0.50000  -12.993347  -528.733903    -5.853601
-743.598871   -40.076912    -2346.648
 0.75000  -12.993347  -505.279271    -5.853601
-746.988255   -36.184802    -2219.572
 1.00000  -12.993347  -483.721171    -5.853601
-750.607549   -33.276676    -2204.695

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.528799    80.988622     0.554094
100.224546    4.878943   958.488856
 0.25000    3.528799    92.398584     0.554094
117.155713    3.912799   909.976003
 0.50000    3.528799   105.291121     0.554094
135.551473    4.078893   965.122139
 0.75000    3.528799   119.189976     0.554094
155.424836    5.141988    1030.716
 1.00000    3.528799   133.536091     0.554094
176.708984    7.208457    1120.156

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -8.832887  -258.527695    -5.340388
-362.296166   -51.996070    -1005.170
 0.25000   -8.832887  -241.616935    -5.340388
-337.899566   -45.828819   -895.885677
 0.50000   -8.832887  -224.892379    -5.340388
-314.858440   -40.012691   -814.810956
 0.75000   -8.832887  -208.936693    -5.340388
-293.182805   -34.521286   -764.244812
 1.00000   -8.832887  -194.281674    -5.340388
-272.862208   -29.583264   -753.234984

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.444134   159.711857     2.096668
185.224399   30.807175    1692.395
 0.25000    8.444134   182.525653     2.096668
185.224399   29.509626    1795.723
 0.50000    8.444134   208.300007     2.096668
185.224399   28.192058    1905.158
 0.75000    8.444134   236.090610     2.096668
185.224399   29.302028    2034.232
 1.00000    8.444134   264.768222     2.096668
185.224399   31.034708    2207.017
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1178

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.121428  -508.947336    -7.157565
-206.304344   -56.889657    -1953.964
 0.25000  -11.121428  -475.125280    -7.157565
-206.304344   -50.236908    -1741.658
 0.50000  -11.121428  -441.715692    -7.157565
-206.304344   -43.945318    -1585.390
 0.75000  -11.121428  -409.844339    -7.157565
-206.304344   -37.986492    -1486.609
 1.00000  -11.121428  -380.543614    -7.157565
-206.304344   -32.581373    -1467.941

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.149045   176.986190     2.834810
270.379482   35.199850    2018.228
 0.25000   12.149045   197.821440     2.834810
270.379482   33.201397    2144.061
 0.50000   12.149045   221.358833     2.834810
270.379482   32.089113    2293.699
 0.75000   12.149045   246.736931     2.834810
270.379708   32.046574    2477.983
 1.00000   12.149045   272.926196     2.834810
270.379783   33.150268    2732.734

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.922858  -578.426552    -7.239490
-634.607484   -63.361904    -2695.076
 0.25000  -12.922858  -547.539580    -7.239490
-633.934771   -56.584445    -2438.685
 0.50000  -12.922858  -517.029318    -7.239490
-633.241916   -50.299812    -2246.125
 0.75000  -12.922858  -487.923790    -7.239490
-632.536045   -44.549235    -2094.144
 1.00000  -12.922858  -461.164083    -7.239490
-631.824561   -39.293794    -2066.852

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.634910   174.259273     3.235052
567.452660   37.416800    2087.057
 0.25000   11.634910   191.875920     3.235052
567.452660   34.892252    2220.598
 0.50000   11.634910   211.778689     3.235052
567.452660   33.143607    2389.437
 0.75000   11.634910   233.237927     3.235052
567.452660   32.382487    2602.543
 1.00000   11.634910   255.383033     3.235052
567.452660   32.638934    2896.734

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -13.087794  -580.995002    -6.379371
-592.072656   -59.070127    -2911.487
 0.25000  -13.087794  -554.877857    -6.379371
-592.072656   -53.291292    -2637.320
 0.50000  -13.087794  -529.079216    -6.379371
-592.072656   -47.972614    -2437.467
 0.75000  -13.087794  -504.468389    -6.379371
-592.072656   -43.166721    -2286.076
 1.00000  -13.087794  -481.842583    -6.379371
-592.072656   -38.796573    -2262.826

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.385174    43.900626     1.714371
574.565126    7.329868   590.401851
 0.25000    3.385174    44.342687     1.714371
572.905666    6.975149   634.903765
 0.50000    3.385174    44.844298     1.714371
571.341059    6.717783   701.587338
 0.75000    3.385174    45.385009     1.714371
569.872232    6.548666   791.148989
 1.00000    3.385174    45.943091     1.714371
568.498750    6.472404   917.418779
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1179

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.955748  -151.973097    -0.914609
-114.577962   -15.225518    -1022.019
 0.25000   -5.955748  -151.315714    -0.914609
-115.777282   -13.312746   -975.872420
 0.50000   -5.955748  -150.665605    -0.914609
-117.065562   -15.703217   -875.226512
 0.75000   -5.955748  -150.045862    -0.914609
-118.459639   -16.534297   -839.296813
 1.00000   -5.955748  -149.478622    -0.914609
-119.955809   -17.563300   -839.238784

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.786516   101.013180     3.674777
911.240935   55.312419    2087.057
 0.25000    8.786516   105.018298     3.674777
898.697056   35.020704    1323.916
 0.50000    8.786516   109.559329     3.674777
886.870818   32.783874    1431.014
 0.75000    8.786516   114.454088     3.674777
875.771008   30.639163    1589.110
 1.00000    8.786516   119.508696     3.674777
865.398641   28.749663    1817.321

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -8.359104  -323.643157    -2.181117
-213.555056   -21.995222    -1858.457
 0.25000   -8.359104  -317.688233    -2.181117
-222.591491   -21.576284    -1685.870
 0.50000   -8.359104  -311.805683    -2.181117
-232.394774   -21.274062    -1562.614
 0.75000   -8.359104  -306.194277    -2.181117
-242.959771   -21.254722    -1587.814
 1.00000   -8.359104  -301.054497    -2.181117
-254.291868   -21.770819    -1481.132

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.242077   169.453850     3.314725
717.638509   34.278149    1919.682
 0.25000   10.242077   190.092688     3.314725
720.509981   32.742010    2056.306
 0.50000   10.242077   213.402043     3.314725
723.659357   32.177444    2212.476
 0.75000   10.242077   238.534251     3.314725
727.079258   32.447742    2396.333
 1.00000   10.242077   264.469939     3.314725
730.767983   33.381714    2643.745

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.507780  -561.400862    -5.598532
-218.555374   -45.487443    -2532.090
 0.25000  -12.507780  -530.812939    -5.598532
-213.552299   -41.738425    -2276.114
 0.50000  -12.507780  -500.596100    -5.598532
-208.773029   -38.355764    -2097.298
 0.75000  -12.507780  -471.771456    -5.598532
-204.226276   -35.382896    -1984.696
 1.00000  -12.507780  -445.263589    -5.598532
-199.922449   -33.163647    -1970.001

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.847516   175.331419     3.207010
685.348890   31.581760    2076.170
 0.25000   10.847516   192.295536     3.207010
686.676302   29.920446    2204.909
 0.50000   10.847516   211.455842     3.207010
688.657521   29.117890    2372.115
 0.75000   10.847516   232.114538     3.207010
690.816825   29.144348    2586.958
 1.00000   10.847516   253.433664     3.207010
693.147965   30.193323    2886.890
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1180

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.474302  -578.206135    -7.188193
-521.247875   -69.392493    -2875.129
 0.25000  -15.474302  -553.062201    -7.188193
-517.921997   -63.207092    -2599.729
 0.50000  -15.474302  -528.225021    -7.188193
-514.734789   -57.378014    -2402.482
 0.75000  -15.474302  -504.531350    -7.188193
-511.695359   -52.019338    -2274.524
 1.00000  -15.474302  -482.743258    -7.188193
-508.806754   -47.525661    -2256.386

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.053433   133.227484     3.507887
821.608214   37.303127    1829.057
 0.25000   11.053433   162.339521     3.507887
802.666016   34.838760    2073.323
 0.50000   11.053433   195.264612     3.507887
788.763110   33.202577    2317.169
 0.75000   11.053433   232.092414     3.507887
774.828863   32.569540    2569.075
 1.00000   11.053433   273.589031     3.507887
760.752468   33.266150    2821.672

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -10.710299  -553.407607    -6.295184
-868.095169   -51.716577    -1957.786
 0.25000  -10.710299  -515.106219    -6.295184
-853.079530   -47.241865    -1877.727
 0.50000  -10.710299  -477.872436    -6.295184
-842.005270   -42.776863    -1797.884
 0.75000  -10.710299  -444.773623    -6.295184
-830.916382   -38.320588    -1718.051
 1.00000  -10.710299  -418.414372    -6.295184
-819.735919   -34.135152    -1638.218

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.103004   176.986190     5.175761
911.240935   55.312419    2087.057
 0.25000   16.103004   197.821440     5.175761
898.697056   50.630252    2220.598
 0.50000   16.103004   221.358833     5.175761
886.870818   46.765196    2389.437
 0.75000   16.103004   246.736931     5.175761
875.771008   43.938031    2602.543
 1.00000   16.103004   272.926196     5.175761
865.398641   42.513014    2896.734

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.474302  -580.995002    -7.239490
-986.798286   -69.392493    -2911.487
 0.25000  -15.474302  -554.877857    -7.239490
-977.179588   -63.207092    -2637.320
 0.50000  -15.474302  -529.079216    -7.239490
-968.098551   -57.378014    -2437.467
 0.75000  -15.474302  -505.279271    -7.239490
-959.548944   -52.019338    -2286.076
 1.00000  -15.474302  -483.721171    -7.239490
-951.544449   -47.525661    -2262.826

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.103004   176.986190     5.175761
911.240935   55.312419    2087.057
 0.25000   16.103004   197.821440     5.175761
898.697056   50.630252    2220.598
 0.50000   16.103004   221.358833     5.175761
886.870818   46.765196    2389.437
 0.75000   16.103004   246.736931     5.175761
875.771008   43.938031    2602.543
 1.00000   16.103004   273.589031     5.175761
865.398641   42.513014    2896.734
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1181

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.474302  -580.995002    -7.239490
-986.798286   -69.392493    -2911.487
 0.25000  -15.474302  -554.877857    -7.239490
-977.179588   -63.207092    -2637.320
 0.50000  -15.474302  -529.079216    -7.239490
-968.098551   -57.378014    -2437.467
 0.75000  -15.474302  -505.279271    -7.239490
-959.548944   -52.019338    -2286.076
 1.00000  -15.474302  -483.721171    -7.239490
-951.544449   -47.525661    -2262.826

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.103004   176.986190     5.175761
911.240935   55.312419    2087.057
 0.25000   16.103004   197.821440     5.175761
898.697056   50.630252    2220.598
 0.50000   16.103004   221.358833     5.175761
886.870818   46.765196    2389.437
 0.75000   16.103004   246.736931     5.175761
875.771008   43.938031    2602.543
 1.00000   16.103004   273.589031     5.175761
865.398641   42.513014    2896.734

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.474302  -580.995002    -7.239490
-986.798286   -69.392493    -2911.487
 0.25000  -15.474302  -554.877857    -7.239490
-977.179588   -63.207092    -2637.320
 0.50000  -15.474302  -529.079216    -7.239490
-968.098551   -57.378014    -2437.467
 0.75000  -15.474302  -505.279271    -7.239490
-959.548944   -52.019338    -2286.076
 1.00000  -15.474302  -483.721171    -7.239490
-951.544449   -47.525661    -2262.826

 ELEM      88 ================== LENGTH
=    4.958680

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.575256    28.436501     2.633163
71.731114   12.459466   755.092935
 0.25000    5.575256    28.953263     2.633163
72.922136   10.616500   813.432070
 0.50000    5.575256    29.540378     2.633163
74.144940    9.270561   882.318788
 0.75000    5.575256    30.181337     2.633163
75.409065    8.187332   959.733215
 1.00000    5.575256    30.856062     2.633163
77.144846    7.366521    1043.749

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.749068   -92.561134    -0.274677
-418.019673   -2.458397   -621.981329
 0.25000   -3.749068   -91.883150    -0.274677
-416.302345   -2.626345   -592.424477
 0.50000   -3.749068   -91.231040    -0.274677
-415.034154   -3.538576   -562.867626
 0.75000   -3.749068   -90.622352    -0.274677
-413.744340   -5.013637   -533.310774
 1.00000   -3.749068   -90.076230    -0.274677
-412.423223   -6.992302   -503.754903

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.364141    79.674332     2.718104
151.822882   16.917765    1672.794
 0.25000    7.364141    84.841370     2.718104
162.537768   16.603951    1757.786
```

```
 0.50000      7.364141     90.711918      2.718104
173.540221     16.900431     1865.058
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1182

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P             V2             V3
            T             M2             M3
 0.75000      7.364141     97.120629      2.718104
184.915939     17.710176     2002.472
 1.00000      7.364141    103.864604      2.718104
200.537386     18.905634     2159.848

 COMB DB-G1-2 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -8.600138   -229.170085     -3.555599
-745.450601    -22.759016    -3109.127
 0.25000     -8.600138   -222.393390     -3.555599
-729.993154    -18.824836    -1057.021
 0.50000     -8.600138   -215.873068     -3.555599
-718.575059    -15.512633    -1004.916
 0.75000     -8.600138   -209.786676     -3.555599
-706.963436    -12.925791    -952.810454
 1.00000     -8.600138   -204.325963     -3.555599
-695.067448    -11.117986    -900.704932

 COMB DB-G1-3 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     10.237966     159.645223     3.644907
106.847994     31.580747     2583.494
 0.25000     10.237966     189.656744     3.644907
106.847994     30.789933     2773.711
 0.50000     10.237966     223.760829     3.644907
106.847994     31.347826     2937.523
 0.75000     10.237966     260.978645     3.644907
106.847994     33.176831     3081.193
 1.00000     10.237966     300.018874     3.644907
106.847994     35.967383     3203.195

 COMB DB-G1-3 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000    -10.332733   -479.304916     -5.329071
-555.611246    -22.368257    -1487.617
 0.25000    -10.332733   -440.067682     -5.329071
-557.681304    -18.873625    -1418.390
 0.50000    -10.332733   -402.195560     -5.329071
-559.709192    -16.040029    -1349.164
 0.75000    -10.332733   -366.830213     -5.329071
-561.717035    -13.806635    -1279.937
 1.00000    -10.332733   -335.106573     -5.329071
-564.393913    -12.415039    -1210.711

 COMB DB-G1-4 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     10.897160     159.275559     4.575712
330.749617     36.374137     2811.144
 0.25000     10.897160     183.956795     4.575712
330.749617     34.010652     2986.751
 0.50000     10.897160     212.001775     4.575712
330.749617     33.197139     3155.775
 0.75000     10.897160     242.607803     4.575712
330.749617     33.872029     3328.368
 1.00000     10.897160     274.712893     4.575712
330.749617     35.912784     3501.250

 COMB DB-G1-4 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -9.828648   -473.841519     -5.030026
-511.252458    -21.849908    -1638.179
 0.25000     -9.828648   -441.574477     -5.030026
-511.252458    -18.827581    -1561.915
 0.50000     -9.828648   -410.430489     -5.030026
-511.596541    -16.357679    -1485.650
 0.75000     -9.828648   -381.348415     -5.030026
-512.162178    -14.395225    -1409.385
 1.00000     -9.828648   -355.259346     -5.030026
-512.740765    -13.143111    -1333.120

 COMB DB-G2-1 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      3.127076     83.927642      0.300038
 83.193140     8.728378     1184.818
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1183

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P             V2             V3
            T             M2             M3
 0.25000      3.127076    100.316643      0.300038
103.133443     10.597676     1256.243
 0.50000      3.127076    118.937816      0.300038
123.630249     12.893159     1312.492
 0.75000      3.127076    139.263387      0.300038
144.841827     15.596947     1362.090
 1.00000      3.127076    160.624675      0.300038
173.987691     18.650829     1402.571

 COMB DB-G2-1 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -5.395650   -236.982007     -3.829822
-329.924484    -22.512288    -565.290917
 0.25000     -5.395650   -215.515409     -3.829822
-301.053153    -18.373300    -539.302367
 0.50000     -5.395650   -194.834529     -3.829822
-279.694826    -14.293676    -513.313816
 0.75000     -5.395650   -175.527101     -3.829822
-257.981508    -10.273183    -487.325266
 1.00000     -5.395650   -158.205260     -3.829822
-235.753723     -6.427195    -461.336716

 COMB DB-G2-2 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      7.407345     165.102723     2.746427
151.501812     29.766203     2308.889
 0.25000      7.407345     197.873296     2.746427
151.501812     29.494485     2451.519
 0.50000      7.407345     235.109395     2.746427
151.501812     30.815040     2561.722
 0.75000      7.407345     275.746052     2.746427
151.501812     33.738911     2655.157
 1.00000      7.407345     318.373210     2.746427
151.501812     37.813088     2728.369

 COMB DB-G2-2 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -8.292775   -465.624803     -5.893180
-167.456670    -23.651968    -1090.736
 0.25000     -8.292775   -422.782637     -5.893180
-167.456670    -19.968329    -1040.747
 0.50000     -8.292775   -381.431749     -5.893180
-167.456670    -16.319186    -990.758225
 0.75000     -8.292775   -342.818704     -5.893180
-167.456670    -12.750719    -940.769369
 1.00000     -8.292775   -308.178945     -5.893180
-167.456670     -9.322063    -890.780512

 COMB DB-G2-3 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      9.319025     168.650054     3.166860
182.477487     33.033893     2731.503
 0.25000      9.319025     198.474278     3.166860
182.477487     32.058546     2903.481
 0.50000      9.319025     232.360549     3.166860
182.477487     32.592079     3054.052
 0.75000      9.319025     269.341987     3.166860
182.477487     34.613282     3198.111
 1.00000      9.319025     308.135296     3.166860
182.477487     37.838014     3332.740

 COMB DB-G2-3 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -8.947166   -494.806619     -6.639783
-467.755317    -30.046705    -1675.108
 0.25000     -8.947166   -455.817698     -6.639783
-467.401527    -25.104863    -1406.842
 0.50000     -8.947166   -418.186382     -6.639783
-466.971914    -20.383005    -1338.575
 0.75000     -8.947166   -383.047126     -6.639783
-466.586442    -15.752599    -1270.308
 1.00000     -8.947166   -351.521975     -6.639783
-466.267725    -11.368263    -1202.042
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1184

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      8.694553     156.746098     3.148030
398.108963     30.236704     2821.587
 0.25000      8.694553     181.871673     3.148030
398.108963     28.913438     3001.449
 0.50000      8.694553     210.421018     3.148030
398.108963     28.841887     3169.740
 0.75000      8.694553     241.577610     3.148030
398.108963     30.057230     3339.689
 1.00000      8.694553     274.260342     3.148030
398.108963     33.058716     3509.509

 COMB DB-G2-4 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -8.896444   -475.394347     -5.819688
-416.627013    -28.951427    -1632.913
 0.25000     -8.896444   -442.546766     -5.819688
-416.627013    -24.673595    -1556.862
 0.50000     -8.896444   -410.842565     -5.819688
-416.627013    -20.583753    -1480.811
 0.75000     -8.896444   -381.237500     -5.819688
-416.627013    -16.568378    -1404.759
 1.00000     -8.896444   -354.678799     -5.819688
-416.627013    -12.760003    -1328.708

 COMB DB-G3-1 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      2.776752     28.493498      0.948930
401.957529     2.571014     786.844421
 0.25000      2.776752     29.106790      0.948930
399.873242     2.736917     845.290637
 0.50000      2.776752     29.807014      0.948930
398.341961     3.269037     914.764328
 0.75000      2.776752     30.570914      0.948930
396.781809     3.931664     994.347660
 1.00000      2.776752     31.369402      0.948930
395.179648     4.654558     1081.001

 COMB DB-G3-1 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -2.922188    -96.352202     -1.267022
-62.610304     -9.980168   -621.576901
 0.25000     -2.922188    -95.549515     -1.267022
-64.068434     -9.210174   -591.739621
 0.50000     -2.922188    -94.772052     -1.267022
-65.561795     -8.816236   -561.902341
 0.75000     -2.922188    -94.045770     -1.267022
-67.102350     -8.773757   -532.065061
 1.00000     -2.922188    -93.397109     -1.267022
-69.214141     -9.090682   -502.227781

 COMB DB-G3-2 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      6.237571     82.611749      3.221352
710.910752     18.794646     1707.266
 0.25000      6.237571     89.175413      3.221352
691.609975     16.791363     1796.988
 0.50000      6.237571     96.664562      3.221352
677.461171     15.561230     1904.806
 0.75000      6.237571    104.835150      3.221352
662.984311     16.400120     2038.892
 1.00000      6.237571    113.379775      3.221352
648.151222     17.617921     2191.228

 COMB DB-G3-2 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -5.042304   -240.176479     -2.368889
-147.819735    -11.438178    -1090.500
 0.25000     -5.042304   -231.587166     -2.368889
-161.332146    -10.684938    -1039.112
 0.50000     -5.042304   -223.271709     -2.368889
-175.176704    -10.297895    -987.724521
 0.75000     -5.042304   -215.504097     -2.368889
-189.446668    -10.252906    -936.336846
 1.00000     -5.042304   -208.562470     -2.368889
-209.007403    -10.479432    -884.949170
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1185

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      8.636397     159.876747     2.983333
509.275620     27.463098     2594.717
 0.25000      8.636397     190.155694     2.983333
509.275620     26.827852     2784.709
 0.50000      8.636397     224.557245     2.983333
509.275620     27.706146     2947.082
 0.75000      8.636397     262.101395     2.983333
509.275620     30.228393     3089.160
 1.00000      8.636397     301.485269     2.983333
509.275620     33.798545     3210.242

 COMB DB-G3-3 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -8.050791   -481.533738     -4.766241
-120.053465    -19.047856    -1465.962
 0.25000     -8.050791   -441.951313     -4.766241
-118.903931    -16.968189    -1397.539
 0.50000     -8.050791   -403.747473     -4.766241
-117.885636    -15.235078    -1329.115
 0.75000     -8.050791   -368.073946     -4.766241
-116.901699    -13.882927    -1260.692
 1.00000     -8.050791   -336.068277     -4.766241
-115.970343    -12.896235    -1192.268

 COMB DB-G3-4 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      8.603328     158.316886     2.707248
472.217986     26.259605     2810.347
 0.25000      8.603328     183.112307     2.707248
472.217986     26.180121     2987.562
 0.50000      8.603328     211.286207     2.707248
472.217986     27.401972     3156.727
 0.75000      8.603328     242.033147     2.707248
472.217986     30.064963     3329.021
 1.00000      8.603328     274.286223     2.707248
472.217986     33.614669     3501.102

 COMB DB-G3-4 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -10.215715   -474.198446     -6.525804
-352.502829    -33.573813    -1693.860
 0.25000     -10.215715   -441.782696     -6.525804
-352.502829    -28.686796    -1555.663
 0.50000     -10.215715   -410.495364     -6.525804
-352.502829    -24.135799    -1479.465
 0.75000     -10.215715   -381.279640     -6.525804
-352.502829    -19.901127    -1403.268
 1.00000     -10.215715   -355.069856     -6.525804
-352.502830    -15.996892    -1327.071

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     11.441802     45.771999      4.079785
 95.247826     20.749934     895.210399
 0.25000     11.441802     46.159553      4.079785
 96.199385     16.876238     975.768441
 0.50000     11.441802     46.596125      4.079785
 97.254344     13.404339     1058.844
 0.75000     11.441802     47.067212      4.079785
 98.416107     10.466673     1143.488
 1.00000     11.441802     47.550811      4.079785
 99.689068      8.224665     1231.110

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -4.399658   -121.722631     -0.346986
-480.237488     -5.392887   -842.692308
 0.25000     -4.399658   -121.193449     -0.346986
-478.906905     -5.721182   -842.084810
 0.50000     -4.399658   -120.669760     -0.346986
-477.627684     -6.403684   -846.123454
 0.75000     -4.399658   -120.170286     -0.346986
-476.408112     -8.102146   -850.156106
 1.00000     -4.399658   -119.715031     -0.346986
-475.242689    -10.753416   -854.171122
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1186

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     13.100796     112.783113     4.083792
187.731843     23.118405     1801.150
 0.25000     13.100796     116.006371     4.083792
194.512277     20.716504     1929.491
 0.50000     13.100796     119.637416     4.083792
202.034303     19.037672     2066.761
 0.75000     13.100796     123.555267     4.083792
210.319366     18.203964     2219.111
 1.00000     13.100796     127.577322     4.083792
219.395379     18.467756     2377.457

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000    -11.657396   -261.735687     -4.816382
-792.309518    -31.769683    -1497.169
 0.25000    -11.657396   -257.335010     -4.816382
-782.808228    -27.558005    -1497.769
 0.50000    -11.657396   -252.980114     -4.816382
-773.686666    -23.870515    -1506.481
 0.75000    -11.657396   -248.826449     -4.816382
-764.960921    -21.327279    -1515.165
 1.00000    -11.657396   -245.040616     -4.816382
-756.634955    -19.995426    -1523.818

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     15.136656     195.945267     5.064806
171.873525     37.454416     2673.856
 0.25000     15.136656     217.681047     5.064806
167.156518     34.994721     2904.975
 0.50000     15.136656     242.174946     5.064806
162.671851     33.741129     3106.855
 0.75000     15.136656     268.600280     5.064806
158.416250     33.850771     3281.978
 1.00000     15.136656     295.726627     5.064806
154.386351     35.378727     3425.307

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000    -13.250297   -481.609990     -6.167284
-630.618798    -33.797398    -2026.450
 0.25000    -13.250297   -451.939620     -6.167284
-634.576634    -29.916341    -2028.735
 0.50000    -13.250297   -422.585777     -6.167284
-638.919049    -26.741515    -2041.847
 0.75000    -13.250297   -394.597406     -6.167284
-643.677538    -24.685860    -2054.819
 1.00000    -13.250297   -369.075272     -6.167284
-648.862994    -23.898543    -2067.822

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     15.938495     201.870195     6.086044
383.718469     44.441810     2891.442
 0.25000     15.938495     219.756193     6.086044
380.539525     40.618477     3119.336
 0.50000     15.938495     239.915726     6.086044
377.522892     38.167331     3332.850
 0.75000     15.938495     261.662334     6.086044
374.665170     37.139781     3536.222
 1.00000     15.938495     283.985872     6.086044
371.965330     37.684690     3717.901

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000    -12.713766   -486.419595     -5.684787
-583.140238    -31.922413    -2204.756
 0.25000    -12.713766   -462.002041     -5.684787
-585.885763    -28.650684    -2207.866
 0.50000    -12.713766   -437.845247     -5.684787
-588.899938    -26.180072    -2222.518
 0.75000    -12.713766   -414.812158     -5.684787
-592.196678    -24.785065    -2237.042
 1.00000    -12.713766   -393.807633     -5.684787
-595.785615    -24.563765    -2251.609
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1187

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      3.288277     95.488429      0.491658
 92.450666     8.713582     1120.790
 0.25000      3.288277    107.647658      0.491658
109.548706     10.066112    1208.914
 0.50000      3.288277    121.345194      0.491658
128.528746     11.986531    1281.321
 0.75000      3.288277    136.125158      0.491658
149.434269     14.342772    1341.822
 1.00000      3.288277    151.296717      0.491658
172.348419     17.035507    1385.671

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -8.882639   -222.068804     -5.278579
-317.879201    -30.163790    -753.316453
 0.25000     -8.882639   -205.466670     -5.278579
-293.766240    -25.213366    -754.832209
 0.50000     -8.882639   -189.042983     -5.278579
-270.626847    -20.532612    -760.299027
 0.75000     -8.882639   -173.383799     -5.278579
-248.474332    -16.035106    -765.693999
 1.00000     -8.882639   -159.098468     -5.278579
-227.335543    -11.730299    -771.120226

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      8.075327     188.343021     3.179741
159.020688     32.451091     2206.879
 0.25000      8.075327     212.655887     3.179741
159.020688     31.899487     2380.739
 0.50000      8.075327     240.045315     3.179741
159.020688     32.581589     2522.561
 0.75000      8.075327     269.594569     3.179741
159.020688     34.435222     2639.598
 1.00000      8.075327     299.927952     3.179741
159.020688     37.165330     2722.652

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -10.867518   -437.536769     -6.598723
-173.347111    -32.392447    -1467.855
 0.25000     -10.867518   -404.358248     -6.598723
-173.347111    -27.990174    -1471.534
 0.50000     -10.867518   -371.531874     -6.598723
-173.347111    -24.103972    -1482.789
 0.75000     -10.867518   -340.233440     -6.598723
-173.347111    -20.579231    -1493.889
 1.00000     -10.867518   -311.685408     -6.598723
-173.347111    -17.339987    -1505.038

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     11.863246     204.735449     3.888115
207.260321     36.438795     2734.140
 0.25000     11.863246     226.939807     3.888115
207.260321     35.101357     2952.778
 0.50000     11.863246     251.952059     3.888115
207.260630     34.931467     3146.550
 0.75000     11.863246     278.936696     3.888115
207.260925     35.836150     3320.494
 1.00000     11.863246     306.637461     3.888115
207.261015     37.589578     3462.870

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000    -12.705274   -490.550979     -7.098165
-505.769580    -40.052354    -2067.017
 0.25000    -12.705274   -460.251752     -7.098165
-504.901145    -35.049318    -2063.039
 0.50000    -12.705274   -430.274156     -7.098165
-504.004799    -30.501821    -2065.591
 0.75000    -12.705274   -401.691857     -7.098165
-503.087007    -26.262006    -2027.437
 1.00000    -12.705274   -375.619648     -7.098165
-502.153305    -22.347466    -2033.171
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1188

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     11.387727     199.102514     3.993423
443.489776     34.457991     2896.602
 0.25000     11.387727     217.876732     3.993423
443.489776     32.858360     3130.164
 0.50000     11.387727     239.026649     3.993423
443.489776     32.484493     3346.143
 0.75000     11.387727     261.844367     3.993423
443.489776     33.132837     3548.093
 1.00000     11.387727     285.267585     3.993423
443.489776     34.764759     3722.610

 COMB DL-G2-4 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000    -12.910716   -488.586992     -6.282787
-461.124716    -37.933583    -2262.751
 0.25000    -12.910716   -462.966779     -6.282787
-461.124716    -33.812214    -2259.794
 0.50000    -12.910716   -437.618492     -6.282787
-461.124716    -30.299507    -2264.888
 0.75000    -12.910716   -413.450609     -6.282787
-461.124716    -27.143906    -2236.069
 1.00000    -12.910716   -391.405487     -6.282787
-461.124716    -24.321235    -2243.821

 COMB DL-G3-1 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      3.240742     45.767728      1.172953
460.219992     4.183092     915.280553
 0.25000      3.240742     46.238493      1.172953
458.588350     4.458485     996.761322
 0.50000      3.240742     46.771572      1.172953
457.024820     5.132966     1081.123
 0.75000      3.240742     47.346628      1.172953
455.530505     5.867945     1167.780
 1.00000      3.240742     47.937036      1.172953
454.105301     6.695835     1256.312

 COMB DL-G3-1 ------------------ MIN

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000     -5.882010   -124.493142     -1.566231
-82.131304    -15.022313    -838.923256
 0.25000     -5.882010   -123.847852     -1.566231
-83.322045    -14.364137    -837.530090
 0.50000     -5.882010   -123.209300     -1.566231
-84.639362    -14.242135    -840.566459
 0.75000     -5.882010   -122.600497     -1.566231
-86.089766    -14.457579    -843.396475
 1.00000     -5.882010   -122.047678     -1.566231
-87.678871    -14.978202    -846.436113

 COMB DL-G3-2 ------------------ MAX

 REL DIST          P             V2             V3
            T             M2             M3
 0.00000      8.646306     114.074010     4.076079
748.017345     25.971790     1814.259
 0.25000      8.646306     118.339164     4.076079
735.690921     23.639464     1943.894
 0.50000      8.646306     123.165620     4.076079
723.881011     22.467568     2080.784
 0.75000      8.646306     128.371427     4.076079
```

```
712.587972    21.980896    2230.651
 1.00000     8.646306   133.716372     4.076079
701.829440    22.071702    2363.251

 COMB DL-G3-2 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -8.179765  -267.570890   -2.600495
-171.596935   -18.058817    -1480.622
 0.25000   -8.179765  -261.728427   -2.600495
-180.613630   -17.479014    -1477.736
 0.50000   -8.179765  -255.947330   -2.600495
-190.591320   -17.697327    -1483.437
 0.75000   -8.179765  -250.435379   -2.600495
-201.568450   -18.377573    -1489.111
 1.00000   -8.179765  -245.426651   -2.600495
-213.590509   -19.471168    -1494.778
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD                >
                                      1189

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    9.836292   193.380195    3.823928
577.702414    31.737793    2641.166
 0.25000    9.836292   215.375409    3.823928
580.821410    30.948198    2869.267
 0.50000    9.836292   240.145177    3.823928
584.315434    31.688814    3067.871
 0.75000    9.836292   266.868262    3.823928
588.194264    33.510868    3239.409
 1.00000    9.836292   294.300731    3.823928
592.464185    36.114589    3377.549

 COMB DL-G3-3 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -12.202906  -477.767548    -5.364793
-173.089141    -30.128978    -1969.551
 0.25000   -12.202906  -447.760842    -5.364793
-168.006765    -27.773755    -1972.068
 0.50000   -12.202906  -418.073277    -5.364793
-163.090472    -26.346531    -1984.426
 0.75000   -12.202906  -389.766473    -5.364793
-158.352824    -25.470596    -1996.638
 1.00000   -12.202906  -363.940373    -5.364793
-153.807556    -25.036238    -2008.819

 COMB DL-G3-4 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   10.482681   200.387479    3.580521
544.504040    30.793741    2885.808
 0.25000   10.482681   218.466438    3.580521
546.512667    30.34704     3114.788
 0.50000   10.482681   238.827234    3.580521
548.763151    31.285134    3329.057
 0.75000   10.482681   260.793650    3.580521
551.267665    33.222082    3532.339
 1.00000   10.482681   283.343145    3.580521
554.028765    35.930250    3712.459

 COMB DL-G3-4 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -15.299486  -486.516546    -7.450000
-412.221934    -46.117042    -2256.183
 0.25000   -15.299486  -461.851225    -7.450000
-408.817457    -40.944064    -2253.838
 0.50000   -15.299486  -437.448188    -7.450000
-405.519619    -36.616841    -2260.434
 0.75000   -15.299486  -414.180135    -7.450000
-402.336851    -32.798454    -2255.206
 1.00000   -15.299486  -392.952726    -7.450000
-399.276292    -29.421555    -2259.706

 COMB      DB ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   10.897160   168.650954    4.575712
710.910752    36.374137    2821.587
 0.25000   10.897160   198.474278    4.575712
691.609975    34.010652    3001.449
 0.50000   10.897160   235.109395    4.575712
677.430171    33.197139    3169.740
 0.75000   10.897160   275.746052    4.575712
662.984311    34.339689    3339.689
 1.00000   10.897160   318.373210    4.575712
648.151222    37.838014    3509.509

 COMB      DB ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -10.332733  -494.806619    -6.639783
-745.450601    -33.522813    -1638.179
 0.25000   -10.332733  -455.817698    -6.639783
-729.993154    -28.686796    -1561.915
 0.50000   -10.332733  -418.186382    -6.639783
-718.575059    -24.135799    -1485.650
 0.75000   -10.332733  -383.047126    -6.639783
-706.963436    -19.901127    -1409.385
 1.00000   -10.332733  -355.259346    -6.639783
-695.067448    -15.996892    -1333.120
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD                >
                                      1190

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   15.938495   204.735449    6.086044
748.017345    44.441810    2896.602
 0.25000   15.938495   226.939807    6.086044
735.690921    40.616477    3130.164
 0.50000   15.938495   251.952059    6.086044
723.881011    38.167331    3346.343
 0.75000   15.938495   278.936696    6.086044
712.587972    37.139781    3548.093
 1.00000   15.938495   306.637461    6.086044
701.829440    37.684690    3722.610

 COMB      DL ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -15.299486  -490.550979    -7.450000
-792.309518    -46.117042    -2262.751
 0.25000   -15.299486  -462.966779    -7.450000
-782.808228    -40.944064    -2259.794
 0.50000   -15.299486  -437.845247    -7.450000
-773.686666    -36.616841    -2264.888
 0.75000   -15.299486  -414.812158    -7.450000
-764.960921    -32.798454    -2255.206
 1.00000   -15.299486  -393.807633    -7.450000
-756.634955    -29.421555    -2259.706

 COMB      CAR ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   15.938495   204.735449    6.086044
748.017345    44.441810    2896.602
 0.25000   15.938495   226.939807    6.086044
735.690921    40.616477    3130.164
 0.50000   15.938495   251.952059    6.086044
723.881011    38.167331    3346.343
 0.75000   15.938495   278.936696    6.086044
712.587972    37.139781    3548.093
 1.00000   15.938495   306.637461    6.086044
701.829440    37.684690    3722.610

 COMB      CAR ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -15.299486  -490.550979    -7.450000
-792.309518    -46.117042    -2262.751
 0.25000   -15.299486  -462.966779    -7.450000
-782.808228    -40.944064    -2259.794
 0.50000   -15.299486  -437.845247    -7.450000
-773.686666    -36.616841    -2264.888
 0.75000   -15.299486  -414.812158    -7.450000
-764.960921    -32.798454    -2255.206
 1.00000   -15.299486  -393.807633    -7.450000
-756.634955    -29.421555    -2259.706

 COMB      DB ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   15.938495   204.735449    6.086044
748.017345    44.441810    2896.602
 0.25000   15.938495   226.939807    6.086044
735.690921    40.616477    3130.164
 0.50000   15.938495   251.952059    6.086044
723.881011    38.167331    3346.343
 0.75000   15.938495   278.936696    6.086044
712.587972    37.139781    3548.093
 1.00000   15.938495   306.637461    6.086044
701.829440    37.684690    3722.610

 COMB      DB ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -15.299486  -494.806619    -7.450000
-792.309518    -46.117042    -2262.751
 0.25000   -15.299486  -462.966779    -7.450000
-782.808228    -40.944064    -2259.794
 0.50000   -15.299486  -437.845247    -7.450000
-773.686666    -36.616841    -2264.888
 0.75000   -15.299486  -414.812158    -7.450000
-764.960921    -32.798454    -2255.206
 1.00000   -15.299486  -393.807633    -7.450000
-756.634955    -29.421555    -2259.706
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD                >
                                      1191

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      89 ================== LENGTH
=     4.957664

 COMB DB-G1-1 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    5.677767    28.795002    1.932074
71.777925     8.709215     1044.700
 0.25000    5.677767    29.324729    1.932074
73.052457     7.638210     1067.362
 0.50000    5.677767    29.926854    1.932074
74.336220     6.951903     1099.963
 0.75000    5.677767    30.583104    1.932074
75.637063     6.440918     1142.289
 1.00000    5.677767    31.274357    1.932074
77.411891     6.104231     1192.055

 COMB DB-G1-1 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -3.615222   -70.907291   -1.126176
-294.309661    -5.939018  -503.559190
 0.25000   -3.615222   -70.210772   -1.126176
-292.530172    -5.458248  -474.126845
 0.50000   -3.615222   -69.541001   -1.126176
-291.222677    -5.570584  -444.694514
 0.75000   -3.615222   -68.919394   -1.126176
-289.924753    -6.283024  -415.262182
 1.00000   -3.615222   -68.366168   -1.126176
-288.628137    -7.460005  -385.829851

 COMB DB-G1-2 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    7.361891    89.909820    2.417445
178.331600    21.128394    2161.203
 0.25000    7.361891    95.206867    2.417445
189.803967    20.044399    2191.000
 0.50000    7.361891   101.227883    2.417445
201.361143    19.678412    2240.133
 0.75000    7.361891   107.789873    2.417445
213.072625    19.970440    2319.199
 1.00000    7.361891   114.699614    2.417445
229.050064    20.758101    2418.480

 COMB DB-G1-2 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -8.551591  -191.130646   -2.621829
-565.974580    -9.962675  -900.434440
 0.25000   -8.551591  -184.166363   -2.621829
-549.951403    -8.858393  -848.645804
 0.50000   -8.551591  -177.471062   -2.621829
-538.179279    -8.108557  -796.857168
 0.75000   -8.551591  -171.255108   -2.621829
-526.489813    -8.340363  -745.068532
 1.00000   -8.551591  -165.722956   -2.621829
-514.816085    -9.107037  -693.279896

 COMB DB-G1-3 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   10.008364   180.370075    3.834110
122.474349    38.678223    3204.435
 0.25000   10.008364   211.157060    3.834110
120.624906    37.073647    3328.700
 0.50000   10.008364   246.156430    3.834110
120.624906    36.793413    3422.454
 0.75000   10.008364   284.285103    3.834110
120.624906    37.850438    3493.487
 1.00000   10.008364   324.315410    3.834110
120.624906    39.974083    3541.431

 COMB DB-G1-3 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -9.970526  -430.351742   -4.560012
-403.528355    -11.479904    -1210.470
 0.25000   -9.970526  -390.022261   -4.560012
-405.352163    -10.827875    -1141.622
 0.50000   -9.970526  -351.101299   -4.560012
-407.126791    -10.270046    -1072.774
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD                >
                                      1192

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
      T           M2           M3
 0.75000   -9.970526  -314.962119   -4.560012
-408.874590    -10.402288    -1003.927
 1.00000   -9.970526  -282.801840   -4.560012
-411.334291    -11.411686    -935.079384

 COMB DB-G1-4 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   10.756081   184.038875    3.899382
286.167770    38.577799    3501.627
 0.25000   10.756081   209.357500    3.899382
286.167770    36.984394    3602.638
 0.50000   10.756081   238.138449    3.899382
286.167770    36.176857    3694.001
 0.75000   10.756081   269.493230    3.899382
286.167770    37.937033    3786.814
 1.00000   10.756081   302.412208    3.899382
286.167770    40.156124    3875.750

 COMB DB-G1-4 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -9.510929  -419.207113   -4.369302
-410.517741    -11.801682    -1332.998
 0.25000   -9.510929  -386.042090   -4.369302
-410.589944    -11.348379    -1257.144
 0.50000   -9.510929  -354.035828   -4.369302
-411.076310    -10.974241    -1181.290
 0.75000   -9.510929  -324.317660   -4.369302
-411.567884    -11.182670    -1105.437
 1.00000   -9.510929  -297.869702   -4.369302
-412.069705    -12.148007    -1029.583

 COMB DB-G2-1 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    2.914726    98.723014    1.180691
112.911463    19.563358    1402.999
 0.25000    2.914726   115.528791    1.180691
134.330708    19.440720    1453.171
 0.50000    2.914726   134.631869    1.180691
155.956967    19.929605    1486.859
 0.75000    2.914726   155.448077    1.180691
177.864358    21.129752    1512.749
 1.00000    2.914726   177.341099    1.180691
207.734328    22.886251    1526.785

 COMB DB-G2-1 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -5.501196  -218.857559   -2.409959
-289.964474    -6.623450  -461.283873
 0.25000   -5.501196  -196.799218   -2.409959
-259.990634    -5.267483  -435.505376
 0.50000   -5.501196  -175.552436   -2.409959
-237.932038    -3.994863  -409.726878
 0.75000   -5.501196  -155.829419   -2.409959
-216.043349    -3.610044  -383.948381
 1.00000   -5.501196  -138.276224   -2.409959
-194.201761    -3.952666  -358.169884

 COMB DB-G2-2 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    7.080018   193.341712    3.018009
147.728944    39.435405    2728.385
 0.25000    7.080018   226.958457    3.018009
147.728944    38.440138    2830.554
 0.50000    7.080018   265.171632    3.018009
147.728944    38.802602    2897.609
 0.75000    7.080018   306.802331    3.018009
147.728944    40.682892    2945.528
 1.00000    7.080018   350.510007    3.018009
147.728944    43.758441    2967.913

 COMB DB-G2-2 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -7.990229  -430.802003   -4.506545
-155.612949    -9.362568  -890.760414
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD                >
                                      1193

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
      T           M2           M3
 0.25000   -7.990229  -386.767639   -4.506545
-155.612949    -8.199630  -841.050843
 0.50000   -7.990229  -344.271967   -4.506545
-155.612949    -7.058567  -791.341272
 0.75000   -7.990229  -304.814454   -4.506545
-155.612949    -6.711440  -741.631701
 1.00000   -7.990229  -269.698251   -4.506545
-155.612949    -7.366073  -691.922130

 COMB DB-G2-3 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    9.082981   196.164347    3.229599
184.203845    40.406481    3333.424
 0.25000    9.082981   226.758311    3.229599
184.203845    39.101932    3442.342
 0.50000    9.082981   261.533498    3.229599
184.203845    39.076095    3528.078
 0.75000    9.082981   299.419269    3.229599
184.203845    40.511967    3603.952
 1.00000    9.082981   339.195596    3.229599
184.203845    43.086833    3665.456

 COMB DB-G2-3 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -8.605676  -446.439056   -4.664650
-369.548937    -11.539343    -1201.889
 0.25000   -8.605676  -406.365410   -4.664650
-368.968056    -10.268215    -1134.019
 0.50000   -8.605676  -367.692226   -4.664650
-368.378254    -9.762201    -1066.149
 0.75000   -8.605676  -331.785034   -4.664650
-367.858814    -9.843569    -998.278707
 1.00000   -8.605676  -299.826480   -4.664650
-367.424602    -10.779023    -930.408491

 COMB DB-G2-4 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    8.425225   181.891740    2.900465
330.774402    35.992369    3509.386
 0.25000    8.425225   207.676284    2.900465
330.774402    34.906764    3614.490
 0.50000    8.425225   236.964564    2.900465
330.774402    34.913360    3707.520
 0.75000    8.425225   268.883299    2.900465
330.774402    36.089151    3797.992
 1.00000    8.425225   302.394477    2.900465
330.774402    38.252288    3883.642

 COMB DB-G2-4 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -8.646216  -420.886630   -4.224982
-346.048188    -12.180117    -1328.693
 0.25000   -8.646216  -387.124977   -4.224982
-346.048188    -11.160551    -1253.129
 0.50000   -8.646216  -354.543057   -4.224982
-346.048188    -10.777135    -1177.565
 0.75000   -8.646216  -324.290529   -4.224982
-346.048188    -10.885132    -1102.001
 1.00000   -8.646216  -297.366533   -4.224982
-346.048188    -11.708786    -1026.438

 COMB DB-G3-1 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    2.631959    28.891068    1.047926
285.539555     5.734487     1079.896
 0.25000    2.631959    29.520853    1.047926
283.389118     5.536144     1103.169
 0.50000    2.631959    30.239924    1.047926
281.816485     5.475645     1136.398
 0.75000    2.631959    31.022973    1.047926
280.251341     5.540203     1179.588
 1.00000    2.631959    31.842388    1.047926
278.684676     5.713925     1231.294
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD                >
                                      1194

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -2.971818   -74.238057    -1.605171
-64.259893    -8.410193   -502.425245
 0.25000   -2.971818   -73.412637    -1.605171
-65.804842    -7.180884   -472.876863
 0.50000   -2.971818   -72.613181    -1.605171
-67.358436    -6.411761   -443.328481
 0.75000   -2.971818   -71.870546    -1.605171
-68.930639    -6.127586   -413.780099
 1.00000   -2.971818   -71.212603    -1.605171
-71.078802    -6.324612   -384.236911

 COMB DB-G3-2 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    6.149677    92.892711    2.229392
548.741201    19.371687    2189.621
 0.25000    6.149677    99.631925    2.229392
528.833897    18.496264    2225.086
 0.50000    6.149677   107.321972    2.229392
514.276084    18.305131    2276.583
 0.75000    6.149677   115.695709    2.229392
499.791066    18.810889    2352.986
 1.00000    6.149677   124.464278    2.229392
485.286314    19.823258    2447.569

 COMB DB-G3-2 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -4.986617  -202.390355    -2.876160
-173.234680    -9.412407   -885.200414
 0.25000   -4.986617  -193.558352    -2.876160
-187.543203    -8.208008   -834.168299
 0.50000   -4.986617  -185.008350    -2.876160
-201.927850    -7.391301   -783.136184
 0.75000   -4.986617  -177.066509    -2.876160
-216.484479    -7.182127   -732.104069
 1.00000   -4.986617  -170.026078    -2.876160
-236.375856    -7.548670   -681.088950

 COMB DB-G3-3 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    8.236169   180.723782    3.320125
374.249100    36.135591    3209.061
 0.25000    8.236169   211.783962    3.320125
374.249100    35.053379    3333.552
 0.50000    8.236169   247.087766    3.320125
374.249100    35.181998    3427.898
 0.75000    8.236169   285.549803    3.320125
374.249100    36.614826    3498.044
 1.00000    8.236169   325.931441    3.320125
374.514421    39.063058    3545.506

 COMB DB-G3-3 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -7.784331  -432.851237    -4.814360
-128.040814    -12.199567    -1192.469
 0.25000   -7.784331  -392.167745    -4.814360
-126.633907    -10.748614    -1124.510
 0.50000   -7.784331  -352.906657    -4.814360
-125.436111    -9.650479    -1056.552
 0.75000   -7.784331  -316.453394    -4.814360
-124.313366    -9.355636    -988.592634
 1.00000   -7.784331  -284.007855    -4.814360
-123.277152    -9.853632    -920.650290

 COMB DB-G3-4 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000    8.261069   182.524737    3.067687
382.952788    36.453558    3509.595
 0.25000    8.261069   207.960348    3.067687
382.952788    35.490496    3603.097
 0.50000    8.261069   236.873493    3.067687
382.952788    35.693355    3695.009
 0.75000    8.261069   268.372510    3.067687
382.952788    37.129374    3787.370
 1.00000    8.261069   301.443093    3.067687
382.952788    39.632536    3875.622
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING              LOAD                >
                                      1195

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -10.067993  -419.514774    -5.076352
-295.978611    -15.524663    -1327.149
 0.25000   -10.067993  -386.197006    -5.076352
-295.978611    -13.025644    -1251.496
 0.50000   -10.067993  -354.043532    -5.076352
-295.978611    -10.920843    -1175.843
 0.75000   -10.067993  -324.188899    -5.076352
-295.978611    -10.769901    -1100.190
 1.00000   -10.067993  -297.618751    -5.076352
-295.978612    -11.454347    -1024.551

 COMB DL-G1-1 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   11.588622    53.074694    2.631510
113.861189    11.125947     1232.263
 0.25000   11.588622    53.483108    2.631510
114.907399     9.529959     1268.138
 0.50000   11.588622    53.944301    2.631510
116.036835     8.321412     1305.893
 0.75000   11.588622    54.438028    2.631510
117.249872     7.492138     1345.658
 1.00000   11.588622    54.941733    2.631510
118.546484     7.011991     1387.315

 COMB DL-G1-1 ------------------- MIN

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   -4.266996   -92.104262    -1.012711
-333.951365    -12.016354    -854.253909
 0.25000   -4.266996    -91.575949    -1.012711
-332.585552    -12.071204    -858.356378
 0.50000   -4.266996    -91.052700    -1.012711
-331.302415    -12.550752    -862.438597
 0.75000   -4.266996    -90.557215    -1.012711
-330.104391    -13.964169    -866.642188
 1.00000   -4.266996    -90.110047    -1.012711
-328.990452    -15.989241    -870.646751

 COMB DL-G1-2 ------------------- MAX

 REL DIST            P            V2           V3
      T           M2           M3
 0.00000   13.098978   130.487540    3.251648
235.655901    23.248751     2379.140
 0.25000   13.098978   133.884265    3.251648
243.119804    22.218140     2430.344
 0.50000   13.098978   137.720006    3.251648
251.181572    21.720768     2490.385
 0.75000   13.098978   141.826286    3.251648
```

259.833417 21.880445 2565.068
1.00000 13.098978 146.015518 3.251648
269.083534 22.778466 2646.942

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.616667	-211.188758	-3.266400
-588.643702		-22.629314	-1523.934	
0.25000		-11.616667	-206.794962	-3.266400
-578.888663		-21.162651	-1532.895	
0.50000		-11.616667	-202.443258	-3.266400
-569.727010		-20.198915	-1541.854	
0.75000		-11.616667	-198.322458	-3.266400
-561.171480		-20.363318	-1550.810	
1.00000		-11.616667	-194.603493	-3.266400
-553.214491		-21.681979	-1559.763	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		14.923243	221.154302	4.583634
208.634244		40.351880	3426.710	
0.25000		14.923243	244.059288	4.583634
203.760483		38.997315	3558.141	
0.50000		14.923243	269.933030	4.583634
199.205612		38.545303	3660.440	
0.75000		14.923243	297.626934	4.583634
194.964793		39.190290	3735.266	
1.00000		14.923243	325.893477	4.583634
191.036638		40.036044	3778.881	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1196

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-12.971862	-414.661357	-4.613074
-458.403566		-26.338704	-2067.886	
0.25000		-12.971862	-385.030055	-4.613074
-462.463515		-25.331954	-2081.595	
0.50000		-12.971862	-355.677798	-4.613074
-466.845295		-24.930953	-2095.227	
0.75000		-12.971862	-327.885931	-4.613074
-471.549729		-25.326303	-2108.948	
1.00000		-12.971862	-302.813044	-4.613074
-476.589105		-26.961501	-2122.586	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		15.796279	231.520306	4.919662
355.413748		41.877134	3718.456	
0.25000		15.796279	250.370868	4.919662
352.126376		40.43606	3836.662	
0.50000		15.796279	271.663518	4.919662
349.055663		39.901167	3939.470	
0.75000		15.796279	294.454077	4.919662
346.196951		40.618432	4032.294	
1.00000		15.796279	317.715907	4.919662
343.553452		42.327389	4105.130	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-12.449800	-413.705640	-4.401604
-466.499526		-25.959034	-2251.590	
0.25000		-12.449800	-389.320649	-4.401604
-469.285851		-25.658722	-2266.520	
0.50000		-12.449800	-365.165295	-4.401604
-472.290957		-25.921013	-2281.380	
0.75000		-12.449800	-342.294073	-4.401604
-475.519749		-26.948467	-2296.308	
1.00000		-12.449800	-321.659344	-4.401604
-478.975493		-29.111531	-2311.177	

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.049028	107.223813	1.244589
115.627237		18.553807	1386.070	
0.25000		3.049028	120.037535	1.244589
134.493206		18.855446	1439.412	
0.50000		3.049028	134.507360	1.244589
154.880316		19.562466	1477.240	
0.75000		3.049028	149.994708	1.244589
176.767468		20.896869	1502.641	
1.00000		3.049028	165.804277	1.244589
200.150923		22.672805	1511.190	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-8.943779	-198.005105	-2.995021
-275.551658		-12.804256	-771.132506	
0.25000		-8.943779	-181.432439	-2.995021
-250.809635		-11.171169	-777.062594	
0.50000		-8.943779	-165.016078	-2.995021
-227.582687		-9.667660	-782.953674	
0.75000		-8.943779	-149.471323	-2.995021
-205.868838		-8.599154	-788.890669	
1.00000		-8.943779	-135.442738	-2.995021
-185.670479		-8.145689	-794.824214	

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.715680	210.974260	3.377554
150.543303		39.116925	2722.652	
0.25000		7.715680	236.593288	3.377554
150.543303		38.596177	2828.915	
0.50000		7.715680	265.525536	3.377554
150.543303		38.897995	2903.469	
0.75000		7.715680	296.493230	3.377554
150.543303		40.313103	2952.259	
1.00000		7.715680	328.101413	3.377554
150.543303		42.720257	2966.613	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1197

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.624803	-390.815963	-4.436229
-156.865645		-18.053406	-1504.982	
0.25000		-10.624803	-357.681408	-4.436229
-156.865645		-17.170756	-1516.842	
0.50000		-10.624803	-324.860448	-4.436229
-156.865645		-16.465248	-1528.608	
0.75000		-10.624803	-293.782864	-4.436229
-156.865645		-16.242079	-1540.423	
1.00000		-10.624803	-265.737862	-4.436229
-156.865645		-16.765082	-1552.257	

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		11.593566	233.506375	3.893006
224.194207		41.992087	3463.678	
0.25000		11.593566	256.903389	3.893006
224.237573		41.158485	3585.446	
0.50000		11.593566	283.324527	3.893006
224.319801		41.132247	3682.058	
0.75000		11.593566	311.604475	3.893006
224.440693		42.194262	3758.916	
1.00000		11.593566	340.469357	3.893006
224.599348		44.180014	3806.004	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-12.503787	-426.235256	-4.782424
-393.224893		-24.811910	-2033.180	
0.25000		-12.503787	-395.976417	-4.782424
-392.258430		-23.664003	-2047.683	
0.50000		-12.503787	-366.002503	-4.782424
-391.331144		-23.205507	-2062.089	
0.75000		-12.503787	-337.622150	-4.782424
-390.447442		-23.177975	-2076.544	
1.00000		-12.503787	-312.009436	-4.782424
-389.611779		-23.797253	-2091.000	

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		11.154414	230.148606	3.749259
380.397197		38.280961	3722.524	
0.25000		11.154414	249.931433	3.749259
380.397197		37.777849	3845.638	
0.50000		11.154414	272.272704	3.749259
380.397197		38.071056	3950.702	
0.75000		11.154414	296.185732	3.749259
380.397197		39.271507	4042.180	
1.00000		11.154414	320.593341	3.749259
380.397197		41.230219	4109.752	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-12.749949	-416.576153	-4.399925
-390.416928		-25.409474	-2243.754	
0.25000		-12.749949	-390.989890	-4.399925
-390.416928		-24.854279	-2258.714	
0.50000		-12.749949	-365.645784	-4.399925
-390.416928		-24.959719	-2273.604	
0.75000		-12.749949	-341.647916	-4.399925
-390.416928		-25.436662	-2288.517	
1.00000		-12.749949	-319.991754	-4.399925
-390.416928		-26.451895	-2303.430	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.095313	53.351020	1.230986
321.200525		6.025087	1255.012	
0.25000		3.095313	53.847229	1.230986
319.522145		6.179449	1290.866	
0.50000		3.095313	54.410473	1.230986
317.949924		6.567162	1329.399	
0.75000		3.095313	55.013591	1.230986
316.480901		7.197231	1370.156	
1.00000		3.095313	55.628399	1.230986
315.115413		8.057492	1413.444	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1198

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.872397	-94.565016	-1.629046
-103.045979		-13.344447	-846.333959	
0.25000		-5.872397	-93.920106	-1.629046
-104.342442		-12.729190	-849.670299	
0.50000		-5.872397	-93.281478	-1.629046
-105.744172		-12.462552	-852.999538	
0.75000		-5.872397	-92.676639	-1.629046
-107.247008		-12.799566	-856.317106	
1.00000		-5.872397	-92.133275	-1.629046
-108.854356		-13.639973	-859.932246	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.512397	132.052617	3.129638
561.923402		21.599602	2381.412	
0.25000		8.512397	136.549351	3.129638
549.258406		20.977667	2435.287	
0.50000		8.512397	141.646976	3.129638
537.377229		20.882319	2496.259	
0.75000		8.512397	147.103725	3.129638
526.280108		21.538475	2569.632	
1.00000		8.512397	152.672511	3.129638
515.964036		22.884955	2647.592	

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-8.036924	-217.750464	-2.731725
-219.208019		-17.199759	-1494.599	
0.25000		-8.036924	-211.912237	-2.731725
-229.013279		-17.275856	-1500.541	
0.50000		-8.036924	-206.130645	-2.731725
-239.606790		-17.786242	-1503.872	
0.75000		-8.036924	-200.655318	-2.731725
-250.981647		-18.986839	-1512.379	
1.00000		-8.036924	-195.732277	-2.731725
-263.140476		-20.902700	-1520.924	

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.440694	218.632805	3.904737
423.207414		36.656505	3376.075	
0.25000		9.440694	241.810440	3.904737
426.892982		36.236856	3506.805	
0.50000		9.440694	267.974410	3.904737
430.874709		36.669508	3608.126	
0.75000		9.440694	295.980174	3.904737
435.157823		38.190927	3681.523	
1.00000		9.440694	324.566239	3.904737
439.719501		40.596129	3722.645	

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.935445	-412.160588	-4.541832
-202.553543		-23.573716	-2008.645	
0.25000		-11.935445	-382.193800	-4.541832
-197.051004		-23.193278	-2021.652	
0.50000		-11.935445	-352.511585	-4.541832
-192.468810		-23.173029	-2034.550	
0.75000		-11.935445	-324.408107	-4.541832
-187.885497		-23.828405	-2047.478	
1.00000		-11.935445	-299.033690	-4.541832
-183.601728		-25.278042	-2060.466	

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		10.127062	230.400509	3.783271
443.239253		38.312759	3711.803	
0.25000		10.127062	249.451287	3.783271
445.659308		38.089675	3831.171	
0.50000		10.127062	270.958701	3.783271
448.272610		38.650372	3934.708	
0.75000		10.127062	293.979497	3.783271
451.077346		40.336022	4027.450	
1.00000		10.127062	317.476527	3.783271
454.069421		42.935192	4099.312	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1199

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.162340	-413.813866	-5.283511
-369.514955		-29.618623	-2259.566	
0.25000		-15.162340	-389.181968	-5.283511
-365.042632		-28.039266	-2267.446	
0.50000		-15.162340	-364.782340	-5.283511
-362.770680		-26.882085	-2275.243	
0.75000		-15.162340	-341.679645	-5.283511
-359.698488		-26.820327	-2283.060	
1.00000		-15.162340	-320.825543	-5.283511
-356.828626		-27.714349	-2296.351	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		10.756081	196.164347	3.899382
548.741201		40.406481	3509.386	
0.25000		10.756081	226.958457	3.899382
528.833897		39.101932	3614.490	
0.50000		10.756081	265.171632	3.899382
514.276084		39.097995	3707.520	
0.75000		10.756081	306.802331	3.899382
499.791066		40.682892	3797.992	
1.00000		10.756081	350.510007	3.899382
485.286314		43.758441	3883.642	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.067993	-446.439056	-5.076352
-565.974580		-15.524663	-1332.998	
0.25000		-10.067993	-406.365410	-5.076352
-549.951403		-13.025644	-1257.144	
0.50000		-10.067993	-367.692526	-5.076352
-538.179279		-10.974241	-1181.290	
0.75000		-10.067993	-331.785034	-5.076352
-526.489813		-11.182670	-1105.437	
1.00000		-10.067993	-299.826480	-5.076352
-514.816085		-12.148007	-1029.583	

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		15.796279	233.506375	4.919662
561.923402		41.992087	3722.524	
0.25000		15.796279	256.903389	4.919662
549.258406		41.158485	3845.638	
0.50000		15.796279	283.324527	4.919662
537.377229		41.132247	3950.702	
0.75000		15.796279	311.604475	4.919662
526.280108		42.194262	4042.180	
1.00000		15.796279	340.469357	4.919662
515.964036		44.180014	4109.752	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.162340	-426.235256	-5.283511
-588.643702		-29.618623	-2259.566	
0.25000		-15.162340	-395.976417	-5.283511
-578.888663		-28.039266	-2267.446	
0.50000		-15.162340	-366.002503	-5.283511
-569.727010		-26.882085	-2281.380	
0.75000		-15.162340	-342.294073	-5.283511
-561.171480		-26.948467	-2296.308	
1.00000		-15.162340	-321.659344	-5.283511
-553.214491		-29.111531	-2311.177	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		15.796279	233.506375	4.919662
561.923402		41.992087	3722.524	
0.25000		15.796279	256.903389	4.919662
549.258406		41.158485	3845.638	
0.50000		15.796279	283.324527	4.919662
537.377229		41.132247	3950.702	
0.75000		15.796279	311.604475	4.919662
526.280108		42.194262	4042.180	
1.00000		15.796279	340.469357	4.919662
515.964036		44.180014	4109.752	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1200

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.162340	-446.439056	-5.283511
-588.643702		-29.618623	-2259.566	
0.25000		-15.162340	-406.365410	-5.283511
-578.888663		-28.039266	-2267.446	
0.50000		-15.162340	-367.692526	-5.283511
-569.727010		-26.882085	-2281.380	
0.75000		-15.162340	-342.294073	-5.283511
-561.171480		-26.948467	-2296.308	
1.00000		-15.162340	-321.659344	-5.283511
-553.214491		-29.111531	-2311.177	

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		15.796279	233.506375	4.919662
561.923402		41.992087	3722.524	
0.25000		15.796279	256.903389	4.919662
549.258406		41.158485	3845.638	
0.50000		15.796279	283.324527	4.919662
537.377229		41.132247	3950.702	
0.75000		15.796279	311.604475	4.919662
526.280108		42.194262	4042.180	
1.00000		15.796279	350.510007	4.919662
515.964036		44.180014	4109.752	

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.162340	-446.439056	-5.283511
-588.643702		-29.618623	-2259.566	
0.25000		-15.162340	-406.365410	-5.283511
-578.888663		-28.039266	-2267.446	
0.50000		-15.162340	-367.692526	-5.283511
-569.727010		-26.882085	-2281.380	
0.75000		-15.162340	-342.294073	-5.283511
-561.171480		-26.948467	-2296.308	
1.00000		-15.162340	-321.659344	-5.283511
-553.214491		-29.111531	-2311.177	

ELEM 90 ========== LENGTH = 4.957812

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.788785	45.070208	1.368847
162.215676		6.788512	1192.352	
0.25000		5.788785	45.618039	1.368847
163.506642		6.098247	1180.396	
0.50000		5.788785	46.238357	1.368847
164.799732		5.692710	1176.503	
0.75000		5.788785	46.911625	1.368847
166.102864		6.031558	1183.926	
1.00000		5.788785	47.617214	1.368847
167.876488		7.160182	1199.558	

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-3.487326	-49.600486	-1.754301
-169.732662		-6.970432	-385.532780	
0.25000		-3.487326	-48.894749	-1.754301
-167.959053		-6.245551	-356.548292	
0.50000		-3.487326	-48.221140	-1.754301
-166.656051		-6.716110	-369.989533	
0.75000		-3.487326	-47.600278	-1.754301
-165.362652		-7.188374	-403.782271	
1.00000		-3.487326	-47.051699	-1.754301
-164.071449		-7.662622	-437.575033	

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.371704	123.369775	2.283230
330.954973		21.778855	2418.993	
0.25000		7.371704	128.848074	2.283230
342.577553		20.608162	2388.450	
0.50000		7.371704	135.051249	2.283230
354.220382		20.066250	2375.119	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1201

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000		7.371704	141.783647	2.283230
365.954991		20.940113	2394.713	
1.00000		7.371704	148.836753	2.283230
381.923077		22.996773	2431.918	

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-8.514679	-152.607781	-2.996736
-385.192265		-9.673972	-692.865287	
0.25000		-8.514679	-145.553187	-2.996736
-369.224252		-10.518251	-641.129210	
0.50000		-8.514679	-138.817361	-2.996736
-357.489130		-11.363877	-665.692246	
0.75000		-8.514679	-132.608732	-2.996736
-345.844721		-12.212675	-726.070215	
1.00000		-8.514679	-127.122657	-2.996736
-334.219622		-13.062282	-786.448185	

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.793989	224.905592	3.838235
252.841852		41.116915	3541.845	
0.25000		9.793989	256.758008	3.838235
250.478586		39.278673	3587.524	
0.50000		9.793989	292.828287	3.838235
248.877242		38.661910	3598.589	
0.75000		9.793989	331.960763	3.838235
247.235355		40.043455	3595.304	
1.00000		9.793989	372.824879	3.838235
246.638622		43.150773	3558.575	

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.621332	-378.082366	-4.793939
-249.063403		-12.242402	-934.730251	
0.25000		-9.621332	-337.208781	-4.793939
-250.791361		-13.360988	-865.251925	
0.50000		-9.621332	-298.055839	-4.793939
-252.450336		-14.480687	-898.481819	
0.75000		-9.621332	-261.952834	-4.793939
-254.062993		-15.602985	-979.598968	
1.00000		-9.621332	-230.055763	-4.793939
-256.431296		-16.725736	-1060.716	

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		10.631644	234.140460	3.682633
335.105018		41.339418	3875.894	
0.25000		10.631644	260.335182	3.682633
335.105018		39.675893	3891.108	
0.50000		10.631644	289.996623	3.682633
335.105018		39.241594	3890.295	
0.75000		10.631644	322.176413	3.682633
335.105018		40.636624	3899.800	
1.00000		10.631644	355.781313	3.682633
335.105018		43.644365	3894.501	

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.205744	-361.531054	-4.601394
-336.454691		-12.970511	-1029.434	
0.25000		-9.205744	-327.918701	-4.601394
-336.454691		-14.178721	-952.904329	
0.50000		-9.205744	-295.721764	-4.601394
-336.454691		-15.389187	-988.734348	
0.75000		-9.205744	-266.033424	-4.601394
-336.454691		-16.602876	-1077.989	
1.00000		-9.205744	-239.801991	-4.601394
-336.851513		-17.817395	-1167.243	

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		2.707559	115.697607	1.779281
152.622408		23.184044	1527.067	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1202

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000		2.707559	133.081059	1.779281
174.366769		22.387434	1549.072	
0.50000		2.707559	152.764715	1.779281
196.166102		22.264126	1552.506	
0.75000		2.707559	174.124405	1.779281
218.143068		22.949898	1551.928	
1.00000		2.707559	196.472449	1.779281
248.018932		24.294553	1533.381	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.615611	-198.606497	-2.161948
-249.396331		-4.322725	-358.092291	
0.25000		-5.615611	-176.253641	-2.161948
-219.520033		-4.751706	-331.666444	
0.50000		-5.615611	-154.882870	-2.161948
-197.539411		-5.181521	-344.647020	
0.75000		-5.615611	-135.181697	-2.161948
-175.733527		-5.612408	-375.535936	
1.00000		-5.615611	-117.774196	-2.161948
-153.979517		-6.043645	-406.424852	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.763889	226.020847	3.496319
149.179338		44.268677	2967.963	
0.25000		6.763889	260.800796	3.496319
149.179338		42.709627	3015.657	
0.50000		6.763889	300.182968	3.496319
149.179338		42.473793	3024.143	
0.75000		6.763889	342.909010	3.496319

```
149.179338    43.779729    3021.095
 1.00000     6.763889   387.527376     3.496319
149.179338    46.377848    2980.008

 COMB DB-G2-2 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -7.699283  -391.623576   -4.204035
-148.830292    -8.068894  -691.924995
 0.25000   -7.699283  -346.995316   -4.204035
-148.830292    -8.871703  -640.888200
 0.50000   -7.699283  -304.246512   -4.204035
-148.830292    -9.676032  -665.576422
 0.75000   -7.699283  -264.828630   -4.204035
-148.830292   -10.481274  -725.195363
 1.00000   -7.699283  -229.999944   -4.204035
-148.830292   -11.286724  -784.814304

 COMB DB-G2-3 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    8.860806   241.995838    3.411150
268.289950    44.116522    3665.716
 0.25000    8.860806   273.648318    3.411150
268.714400    42.528601    3698.428
 0.50000    8.860806   309.487179    3.411150
269.209026    42.130990    3702.820
 0.75000    8.860806   348.369627    3.411150
269.764052    43.500904    3706.234
 1.00000    8.860806   388.974638    3.411150
270.352599    46.415159    3682.368

 COMB DB-G2-3 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -8.275552  -394.290889   -4.342911
-273.433154   -11.651892   -930.203678
 0.25000   -8.275552  -353.676881   -4.342911
-272.839724   -12.752501   -861.265073
 0.50000   -8.275552  -314.773729   -4.342911
-272.273694   -13.855023   -894.342140
 0.75000   -8.275552  -278.902384   -4.342911
-271.762352   -14.958313   -974.638687
 1.00000   -8.275552  -247.205563   -4.342911
-271.315608   -16.061792    -1055.335
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                      1203

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    8.169312   233.720074    3.086351
331.145578    39.539687    3883.618
 0.25000    8.169312   260.386261    3.086351
331.145578    37.993905    3902.648
 0.50000    8.169312   290.581224    3.086351
331.145578    37.435554    3903.564
 0.75000    8.169312   323.339571    3.086351
331.145578    38.721481    3911.476
 1.00000    8.169312   357.548985    3.086351
331.145578    41.667374    3902.136

 COMB DB-G2-4 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -8.407423  -363.283864   -4.091187
-332.025111    -12.445309    -1026.452
 0.25000   -8.407423  -329.066865   -4.091187
-332.025111   -13.648703   -950.167273
 0.50000   -8.407423  -296.290865   -4.091187
-332.025111   -14.853940   -985.424315
 0.75000   -8.407423  -266.068723   -4.091187
-332.025111   -16.060030    -1074.330
 1.00000   -8.407423  -239.365169   -4.091187
-332.025111   -17.266243    -1163.235

 COMB DB-G3-1 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    2.492321   47.361945    1.253355
168.372209    6.243996    1230.897
 0.25000    2.492321   48.013670    1.253355
166.229247    5.510940    1218.054
 0.50000    2.492321   48.755009    1.253355
164.660608    5.002167    1214.071
 0.75000    2.492321   49.558958    1.253355
163.101361    5.481963    1221.516
 1.00000    2.492321   50.395527    1.253355
161.541855    6.608757    1237.992

 COMB DB-G3-1 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -3.025404   -52.375176   -1.620487
-161.425516    -6.248382   -384.552768
 0.25000   -3.025404   -51.538411   -1.620487
-162.985678    -5.160104   -355.589247
 0.50000   -3.025404   -50.734013   -1.620487
-164.545674    -5.053092   -366.947048
 0.75000   -3.025404   -49.991979   -1.620487
-166.114502    -5.502158   -400.445735
 1.00000   -3.025404   -49.339316   -1.620487
-168.257622    -5.951231   -433.944421

 COMB DB-G3-2 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    6.072632   127.639418    2.269728
386.240038    20.614598    2446.931
 0.25000    6.072632   134.613201    2.269728
366.399480    19.364899    2421.468
 0.50000    6.072632   142.540994    2.269728
351.882488    18.734656    2410.297
 0.75000    6.072632   151.138827    2.269728
337.446605    19.662671    2427.456
 1.00000    6.072632   160.089821    2.269728
323.008376    21.717921    2459.349

 COMB DB-G3-2 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -4.937712  -163.748790   -2.920205
-322.939831    -7.677463   -681.516306
 0.25000   -4.937712  -154.795720   -2.920205
-337.384812    -8.257386   -630.597309
 0.50000   -4.937712  -146.193111   -2.920205
-351.826292    -9.033837   -652.094999
 0.75000   -4.937712  -138.257919   -2.920205
-366.349580    -9.811882   -711.185210
 1.00000   -4.937712  -131.274128   -2.920205
-386.189319   -10.590317   -770.275421
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                      1204

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    7.849175   226.316799    3.783156
240.793156    40.019758    3545.123
 0.25000    7.849175   258.451559    3.783156
241.816928    38.123520    3591.050
 0.50000    7.849175   294.835100    3.783156
242.912395    37.424882    3602.509
 0.75000    7.849175   334.308884    3.783156
244.073162    38.857774    3598.594
 1.00000    7.849175   375.531751    3.783156
245.485115    41.951111    3561.401

 COMB DB-G3-3 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -7.528456  -380.676729   -4.690515
-246.416753   -10.315920   -921.006837
 0.25000   -7.528456  -339.444731   -4.690515
-244.999876   -11.378569   -852.511533
 0.50000   -7.528456  -299.949938   -4.690515
-243.828005   -12.442470   -882.983557
 0.75000   -7.528456  -263.533427   -4.690515
-242.715640   -13.507651   -962.663337
 1.00000   -7.528456  -231.353659   -4.690515
-241.669306   -14.573004    -1042.343

 COMB DB-G3-4 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    7.932418   233.850115    3.614181
331.263006    40.797298    3875.447
 0.25000    7.932418   260.165834    3.614181
331.263006    39.068861    3891.212
 0.50000    7.932418   289.963451    3.614181
331.263006    38.561196    3891.167
 0.75000    7.932418   322.291217    3.614181
331.263006    40.020262    3899.951
 1.00000    7.932418   356.050842    3.614181
331.263006    43.086600    3893.948

 COMB DB-G3-4 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -9.934913  -361.777429   -4.485034
-331.778137   -12.068552    -1024.707
 0.25000   -9.934913  -328.010320   -4.485034
-331.778137   -13.269792   -948.488817
 0.50000   -9.934913  -295.665332   -4.485034
-331.778137   -14.472488   -983.094389
 0.75000   -9.934913  -265.840698   -4.485034
-331.778137   -15.676439    -1071.841
 1.00000   -9.934913  -239.488105   -4.485034
-331.778137   -16.880533    -1160.588

 COMB DL-G1-1 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   11.748250   72.844374    1.863523
209.887392    9.339727    1387.654
 0.25000   11.748250   73.275013    1.863523
210.964888    8.446983    1379.049
 0.50000   11.748250   73.756964    1.863523
212.126263    7.810188    1371.875
 0.75000   11.748250   74.269822    1.863523
213.369628    7.723222    1366.642
 1.00000   11.748250   74.790672    1.863523
214.696705    8.112077    1362.605

 COMB DL-G1-1 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -4.140275   -66.941560   -1.752240
-203.241594   -17.440522   -870.620375
 0.25000   -4.140275   -66.419477   -1.752240
-201.912862   -16.427596   -875.787798
 0.50000   -4.140275   -65.905568   -1.752240
-200.667613   -15.999929   -880.935591
 0.75000   -4.140275   -65.422144   -1.752240
-199.505936   -16.229430   -886.074946
 1.00000   -4.140275   -64.989025   -1.752240
-198.427917   -16.944229   -891.254287
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                      1205

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   13.126261   165.403237    3.136999
385.002496    26.159683    2647.393
 0.25000   13.126261   168.984734    3.136999
392.694337    24.990979    2621.657
 0.50000   13.126261   172.993100    3.136999
400.978686    24.275931    2603.366
 0.75000   13.126261   177.252951    3.136999
409.859423    24.595243    2599.660
 1.00000   13.126261   181.589329    3.136999
419.331303    25.213969    2602.987

 COMB DL-G1-2 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000  -11.600510  -167.684517   -3.046268
-403.851006   -24.236798    -1559.716
 0.25000  -11.600510  -163.342421   -3.046268
-394.364103   -24.051871    -1568.870
 0.50000  -11.600510  -159.068272   -3.046268
-385.475185   -24.337139    -1578.053
 0.75000  -11.600510  -155.047679   -3.046268
-377.181836   -24.827720    -1587.193
 1.00000  -11.600510  -151.445462   -3.046268
-369.487906   -25.536415    -1596.358

 COMB DL-G1-3 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   14.739364   265.552639    4.562376
335.240222    43.961732    3779.306
 0.25000   14.739364   289.700325    4.562376
330.328188    42.477244    3809.713
 0.50000   14.739364   316.739238    4.562376
325.741775    41.813021    3808.662
 0.75000   14.739364   345.474777    4.562376
321.477797    42.392580    3779.386
 1.00000   14.739364   374.730209    4.562376
317.524962    43.981468    3718.614

 COMB DL-G1-3 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000  -12.718146  -355.959700   -4.431449
-303.638303   -29.275495    -2122.543
 0.25000  -12.718146  -326.671963   -4.431449
-307.030735   -29.334642    -2134.935
 0.50000  -12.718146  -297.850279   -4.431449
-311.935675   -30.357273    -2147.343
 0.75000  -12.718146  -270.720312   -4.431449
-316.556233   -31.291165    -2159.718
 1.00000  -12.718146  -246.434547   -4.431449
-321.498421   -32.447613    -2172.105

 COMB DL-G1-4 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   15.683575   280.538775    4.456554
406.010350    44.406750    4105.293
 0.25000   15.683575   300.412568    4.456554
402.673518    43.269726    4112.279
 0.50000   15.683575   322.663587    4.456554
399.559068    42.914857    4101.638
 0.75000   15.683575   346.311348    4.456554
396.661650    43.820047    4079.363
 1.00000   15.683575   370.386961    4.456554
393.980282    45.635727    4039.213

 COMB DL-G1-4 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000  -12.210742  -349.970769   -4.278435
-386.186825   -30.395054    -2311.155
 0.25000  -12.210742  -325.868571   -4.278435
-388.900963   -31.168591    -2324.552
 0.50000  -12.210742  -302.149908   -4.278435
-391.829043   -32.265962    -2337.984
 0.75000  -12.210742  -279.823449   -4.278435
-394.972477   -33.552202    -2351.379
 1.00000  -12.210742  -259.836510   -4.278435
-398.336935   -35.034473    -2364.773
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                      1206

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    2.827014   122.446783    1.901138
151.282760    23.415740    1511.337
 0.25000    2.827014   135.952883    1.901138
170.773845    23.005264    1528.786
 0.50000    2.827014   151.074782    1.901138
191.779034    22.934699    1529.788
 0.75000    2.827014   167.144324    1.901138
214.262478    23.346560    1517.459
 1.00000    2.827014   183.507858    1.901138
238.234731    24.095050    1488.711

 COMB DL-G2-1 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -9.024660  -176.583168   -1.925177
-235.552581    -9.042211   -794.805999
 0.25000   -9.024660  -160.202475   -1.925177
-211.514925    -9.404505   -799.407582
 0.50000   -9.024660  -144.079268   -1.925177
-188.993215    -9.770578   -804.006827
 0.75000   -9.024660  -128.911970   -1.925177
-167.979150   -10.140668   -851.610693
 1.00000   -9.024660  -115.322879   -1.925177
-148.486290   -10.514433   -813.219431

 COMB DL-G2-2 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    7.376695   240.511250    3.631510
151.419093    43.289021    2966.669
 0.25000    7.376695   267.521363    3.631510
151.419093    42.495190    3002.902
 0.50000    7.376695   297.756505    3.631510
151.419093    42.449867    3005.643
 0.75000    7.376695   329.888922    3.631510
151.419093    43.385152    2980.664
 1.00000    7.376695   362.602755    3.631510
151.419093    45.030796    2922.148

 COMB DL-G2-2 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000  -10.403209  -349.046076   -3.571514
-149.452938   -17.330088    -1552.246
 0.25000  -10.403209  -316.296120   -3.571514
-149.452938   -18.175703    -1561.206
 0.50000  -10.403209  -284.067297   -3.571514
-149.452938   -19.100568    -1570.190
 0.75000  -10.403209  -253.730287   -3.571514
-149.452938   -20.063271    -1579.127
 1.00000  -10.403209  -226.565672   -3.571514
-149.452938   -21.070806    -1588.062

 COMB DL-G2-3 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   11.347981   276.260461    4.074665
302.607376    46.534400    3806.276
 0.25000   11.347981   300.928015    4.074665
303.230502    45.564303    3829.209
 0.50000   11.347981   328.538963    4.074665
303.898203    45.294813    3825.246
 0.75000   11.347981   357.882535    4.074665
304.606583    46.076652    3799.320
 1.00000   11.347981   387.756140    4.074665
305.351517    47.640672    3746.480

 COMB DL-G2-3 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000  -12.324088  -369.358774   -3.968206
-295.880087   -25.887573    -1893.967
 0.25000  -12.324088  -339.451246   -3.968206
-295.807172   -26.785895    -2103.119
 0.50000  -12.324088  -310.019618   -3.968206
-295.060979   -27.811859    -2115.264
 0.75000  -12.324088  -282.315633   -3.968206
-294.353757   -28.879840    -2127.389
 1.00000  -12.324088  -257.506965   -3.968206
-293.689410   -29.993251    -2139.521
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                      1207

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   10.945967   279.115950    3.940511
372.544457    42.503161    4109.746
 0.25000   10.945967   299.972962    3.940511
372.544457    41.908799    4120.888
 0.50000   10.945967   323.323319    3.940511
372.544457    41.927399    4112.346
 0.75000   10.945967   348.132737    3.940511
372.544457    42.989161    4088.001
 1.00000   10.945967   373.394121    3.940511
372.544457    44.835392    4043.981

 COMB DL-G2-4 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000  -12.613933  -353.146003   -3.836997
-370.016934   -27.257028    -2303.424
 0.25000  -12.613933  -327.856726   -3.836997
-370.016934   -28.574810    -2316.699
 0.50000  -12.613933  -302.969864   -3.836997
-370.016934   -30.015756    -2329.974
 0.75000  -12.613933  -279.543845   -3.836997
-370.016934   -31.481599    -2343.246
 1.00000  -12.613933  -258.567528   -3.836997
-370.016934   -32.991465    -2356.508

 COMB DL-G3-1 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    2.956635   74.144012    1.572421
196.144437    6.762504    1413.058
 0.25000    2.956635   74.667264    1.572421
194.677852    6.583460    1403.719
 0.50000    2.956635   75.255786    1.572421
193.144124    6.762911    1396.261
 0.75000    2.956635   75.881291    1.572421
191.713749    7.535255    1391.515
 1.00000    2.956635   76.518051    1.572421
190.386056    8.719508    1388.673

 COMB DL-G3-1 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.872429   -68.984905   -1.583725
-199.957706   -12.101881   -859.970301
 0.25000   -5.872429   -68.347295   -1.583725
-201.285863   -11.803399   -864.777723
 0.50000   -5.872429   -67.719922   -1.583725
-202.717404   -11.599364   -869.584765
 0.75000   -5.872429   -67.129449   -1.583725
-204.250550   -12.863414   -874.373932
 1.00000   -5.872429   -66.603243   -1.583725
-205.887242   -14.206403   -879.402312

 COMB DL-G3-2 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    8.390326   166.389657    2.818055
391.791648    21.196212    2647.054
 0.25000    8.390326   171.130013    2.818055
379.414682    20.910500    2624.500
 0.50000    8.390326   176.457612    2.818055
367.828001    21.202845    2607.654
 0.75000    8.390326   182.120094    2.818055
357.009860    22.408665    2602.815
 1.00000    8.390326   187.884681    2.818055
346.980402    24.301572    2603.687

 COMB DL-G3-2 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -7.906852  -174.536054   -2.752525
-359.124714   -18.798469    -1520.973
 0.25000   -7.906852  -168.763936   -2.752525
-369.172948   -19.023856    -1529.558
 0.50000   -7.906852  -163.085039   -2.752525
-379.992238   -20.250629    -1538.160
 0.75000   -7.906852  -157.739225   -2.752525
-391.584620   -21.714237    -1546.725
 1.00000   -7.906852  -152.971895   -2.752525
-403.949556   -23.369856    -1555.335
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                      1208

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    9.061884   262.005579    4.231588
285.824940    39.474532    3722.256
 0.25000    9.061884   286.441297    4.231588
289.784489    38.796060    3753.632
 0.50000    9.061884   313.783866    4.231588
294.051473    39.020144    3753.291
 0.75000    9.061884   342.843477    4.231588
298.618472    40.525306    3724.197
 1.00000    9.061884   372.427378    4.231588
303.486276    42.999389    3663.390

 COMB DL-G3-3 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -11.686555   -354.411070   -4.171525
-313.261048    -23.844589    -2060.500
 0.25000   -11.686555   -324.793493   -4.171525
-308.362181    -24.455949    -2072.236
 0.50000   -11.686555   -295.647191   -4.171525
-303.756917    -25.961793    -2083.982
 0.75000   -11.686555   -268.211872   -4.171525
-299.450167    -27.670740    -2095.678
 1.00000   -11.686555   -243.637339   -4.171525
-295.443458    -29.562135    -2107.449

 COMB DL-G3-4 ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000    9.796229   279.407323    4.315833
384.539101    43.174128    4099.149
 0.25000    9.796229   299.492331    4.315833
387.168314    42.438057    4105.991
 0.50000    9.796229   321.968471    4.315833
389.999419    42.533469    4096.914
 0.75000    9.796229   345.855066    4.315833
393.026157    43.899803    4074.297
 1.00000    9.796229   370.173106    4.315833
396.248447    46.131209    4033.650

 COMB DL-G3-4 ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -15.052584   -350.023030   -4.207368
-393.104279    -27.677666    -2296.360
 0.25000   -15.052584   -325.677323   -4.207368
-396.071585    -28.356467    -2309.523
 0.50000   -15.052584   -301.719008   -4.207368
-393.012769    -29.788091    -2322.691
 0.75000   -15.052584   -279.167107   -4.207368
-390.149147    -31.403459    -2335.821
 1.00000   -15.052584   -258.997992   -4.207368
-387.486074    -33.181891    -2348.995

 COMB      DB ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   10.631644   241.995838    3.838235
386.240038    44.268677    3883.618
 0.25000   10.631644   273.648318    3.838235
366.399480    42.709627    3902.648
 0.50000   10.631644   309.487179    3.838235
354.220382    42.473793    3903.564
 0.75000   10.631644   348.369627    3.838235
365.954991    43.777228    3911.476
 1.00000   10.631644   388.974638    3.838235
381.923077    46.415159    3902.136

 COMB      DB ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -9.934913  -394.290889   -4.793939
-385.192265    -12.970511    -1029.434
 0.25000   -9.934913  -353.676881   -4.793939
-369.224252    -14.178721   -952.904329
 0.50000   -9.934913  -314.773729   -4.793939
-357.489130    -15.389187   -988.734348
 0.75000   -9.934913  -278.902384   -4.793939
-366.349580    -16.602876    -1077.989
 1.00000   -9.934913  -247.205563   -4.793939
-386.189319    -17.817395    -1167.243
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                      1209

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ---------- MAX

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   15.683575   280.538775    4.562376
406.010350    46.534400    4109.746
 0.25000   15.683575   300.928015    4.562376
402.673518    45.564303    4120.888
 0.50000   15.683575   328.538963    4.562376
400.978686    45.294813    4112.346
 0.75000   15.683575   357.882535    4.562376
409.859423    46.076652    4088.001
 1.00000   15.683575   387.756140    4.562376
419.331303    47.640672    4043.981

 COMB      DL ---------- MIN

 REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -15.052584   -369.358774   -4.431449
```

```
-403.851006  -30.395054  -2311.155
 0.25000  -15.052584 -339.451246  -4.431449
-396.071585  -31.168591  -2324.552
 0.50000  -15.052584 -310.019618  -4.431449
-393.012769  -32.265962  -2337.984
 0.75000  -15.052584 -282.315633  -4.431449
-394.972477  -33.552202  -2351.379
 1.00000  -15.052584 -259.836510  -4.431449
-403.949556  -35.034473  -2364.773

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   15.683575  280.538775   4.562376
406.010350   46.534400   4109.746
 0.25000   15.683575  300.928015   4.562376
402.673518   45.564303   4120.888
 0.50000   15.683575  328.538963   4.562376
400.978686   45.294813   4112.346
 0.75000   15.683575  357.882535   4.562376
409.859423   46.076652   4088.001
 1.00000   15.683575  388.974638   4.562376
419.331303   47.640672   4043.981

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -15.052584 -394.290889  -4.793939
-403.851006  -30.395054  -2311.155
 0.25000  -15.052584 -353.676881  -4.793939
-396.071585  -31.168591  -2324.552
 0.50000  -15.052584 -314.773729  -4.793939
-393.012769  -32.265962  -2337.984
 0.75000  -15.052584 -282.315633  -4.793939
-394.972477  -33.552202  -2351.379
 1.00000  -15.052584 -259.836510  -4.793939
-403.949556  -35.034473  -2364.773

 COMB  DESIGN ---------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   15.683575  280.538775   4.562376
406.010350   46.534400   4109.746
 0.25000   15.683575  300.928015   4.562376
402.673518   45.564303   4120.888
 0.50000   15.683575  328.538963   4.562376
400.978686   45.294813   4112.346
 0.75000   15.683575  357.882535   4.562376
409.859423   46.076652   4088.001
 1.00000   15.683575  388.974638   4.562376
419.331303   47.640672   4043.981

 COMB  DESIGN ---------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -15.052584 -394.290889  -4.793939
-403.851006  -30.395054  -2311.155
 0.25000  -15.052584 -353.676881  -4.793939
-396.071585  -31.168591  -2324.552
 0.50000  -15.052584 -314.773729  -4.793939
-393.012769  -32.265962  -2337.984
 0.75000  -15.052584 -282.315633  -4.793939
-394.972477  -33.552202  -2351.379
 1.00000  -15.052584 -259.836510  -4.793939
-403.949556  -35.034473  -2364.773
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1210

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        91 ================== LENGTH
=     4.958087

 COMB DB-G1-1 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   5.908417   66.128844   0.677015
286.734745   6.701396   1199.195
 0.25000   5.908417   66.682113   0.677015
288.030748   7.550624   1152.521
 0.50000   5.908417   67.303988   0.677015
289.328754   8.611667   1113.669
 0.75000   5.908417   67.974253   0.677015
290.636181   9.962044   1084.252
 1.00000   5.908417   68.671476   0.677015
292.415910   11.843515   1064.488

 COMB DB-G1-1 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -3.365421  -27.884268  -2.467732
-73.891185   -7.657256 -437.837937
 0.25000  -3.365421  -27.191998  -2.467732
-72.116103   -7.905740 -472.113771
 0.50000  -3.365421  -26.534553  -2.467732
-70.815154   -8.158557 -506.389611
 0.75000  -3.365421  -25.931044  -2.467732
-69.531129   -8.416190 -540.665452
 1.00000  -3.365421  -25.399748  -2.467732
-68.256202   -8.680786 -574.941294

 COMB DB-G1-2 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   7.392579   161.620054   2.157732
511.562096   22.166038   2431.326
 0.25000   7.392579   167.152642   2.157732
523.229785   22.392510   2337.968
 0.50000   7.392579   173.371294   2.157732
534.917478   23.201152   2265.107
 0.75000   7.392579   180.073528   2.157732
546.689319   24.812657   2221.831
 1.00000   7.392579   187.042867   2.157732
562.714820   27.183160   2197.440

 COMB DB-G1-2 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -8.489919  -114.743738  -3.330389
-226.066626  -13.156776 -786.812058
 0.25000  -8.489919  -107.823803  -3.330389
-210.086438  -14.091530 -847.294267
 0.50000  -8.489919  -101.249827  -3.330389
-198.373342  -15.068123 -907.781853
 0.75000  -8.489919   -95.214921  -3.330389
-186.813040  -16.094831 -968.271219
 1.00000  -8.489919   -89.902153  -3.330389
-175.336189  -17.488239  -1028.761

 COMB DB-G1-3 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   9.593846   277.226295   3.730524
407.766777   42.050463   3558.173
 0.25000   9.593846   309.389514   3.730524
405.337017   41.335660   3518.492
 0.50000   9.593846   345.544787   3.730524
403.628227   41.769148   3455.893
 0.75000   9.593846   384.494874   3.730524
401.900212   43.634143   3370.104
 1.00000   9.593846   424.866133   3.730524
400.130287   46.818078   3253.073

 COMB DB-G1-3 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -9.285245  -326.364150  -4.951415
-116.880811   -16.905021   -1061.031
 0.25000  -9.285245  -286.273213  -4.951415
-116.880811   -18.369494   -1141.576
 0.50000  -9.285245  -248.072713  -4.951415
-116.880811   -19.860790   -1222.158
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1211

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2         M3
 0.75000  -9.285245 -212.990367  -4.951415
-117.935404   -21.384039   -1302.741
 1.00000  -9.285245 -182.109792  -4.951415
-120.217781   -23.152488   -1383.324

 COMB DB-G1-4 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  10.523159  291.757642   3.670434
409.320224   42.308279   3894.370
 0.25000  10.523159  318.208013   3.670434
408.822998   41.666285   3814.546
 0.50000  10.523159  347.939409   3.670434
408.338383   42.139237   3730.823
 0.75000  10.523159  379.969616   3.670434
407.861489   43.981094   3648.070
 1.00000  10.523159  413.168982   3.670434
407.768259   47.158997   3555.006

 COMB DB-G1-4 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -8.912911 -305.210136  -4.885165
-283.109026  -18.044858   -1167.395
 0.25000  -8.912911 -272.241317  -4.885165
-283.109026  -19.645412   -1256.029
 0.50000  -8.912911 -240.827497  -4.885165
-283.109026  -21.282407   -1344.693
 0.75000  -8.912911 -211.978341  -4.885165
-283.109026  -22.956785   -1433.359
 1.00000  -8.912911 -186.582776  -4.885165
-283.109026  -24.840290   -1522.024

 COMB DB-G2-1 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   2.504301   136.086501   2.153233
192.830596   23.918933   1533.142
 0.25000   2.504301   153.641169   2.153233
214.665885   22.781860   1522.532
 0.50000   2.504301   173.372835   2.153233
236.551755   22.203408   1499.900
 0.75000   2.504301   194.635368   2.153233
258.611331   22.309470   1469.307
 1.00000   2.504301   216.716261   2.153233
288.594349   22.992473   1421.999

 COMB DB-G2-1 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -5.738911  -179.342711  -1.586040
-209.165966   -6.173450 -406.493169
 0.25000  -5.738911  -157.417049  -1.586040
-179.284866   -7.025841 -436.758906
 0.50000  -5.738911  -136.562337  -1.586040
-157.365882   -7.921307 -467.036906
 0.75000  -5.738911  -117.414705  -1.586040
-135.574892   -8.868868 -497.316398
 1.00000  -5.738911  -100.558569  -1.586040
-114.283986   -10.126370 -527.595889

 COMB DB-G2-2 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   6.457651   265.504265   3.853718
153.987900   45.617357   2980.053
 0.25000   6.457651   300.623670   3.853718
153.987900   43.672923   2964.203
 0.50000   6.457651   340.098745   3.853718
153.987900   42.926607   2922.500
 0.75000   6.457651   382.626208   3.853718
153.987900   43.630146   2861.336
 1.00000   6.457651   426.706166   3.853718
153.987900   45.612267   2764.602

 COMB DB-G2-2 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -7.419426  -354.341614  -3.713464
-147.756082  -11.504429  -784.825708
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1212

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2         M3
 0.25000  -7.419426 -310.567769  -3.713464
-147.756082  -12.920091  -843.149682
 0.50000  -7.419426 -268.858693  -3.713464
-147.756082  -14.371509  -901.513811
 0.75000  -7.419426 -230.554967  -3.713464
-147.756082  -15.865053  -959.879327
 1.00000  -7.419426 -196.836075  -3.713464
-147.756082  -17.642269  -1018.245

 COMB DB-G2-3 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   8.651870   294.244409   4.067692
364.426657   45.240298   3682.145
 0.25000   8.651870   326.205873   4.067692
364.856664   44.173672   3629.351
 0.50000   8.651870   362.129341   4.067692
365.378246   44.263953   3561.475
 0.75000   8.651870   400.831151   4.067692
365.976922   45.796169   3483.648
 1.00000   8.651870   440.946279   4.067692
366.574520   48.575259   3382.038

 COMB DB-G2-3 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -7.965926 -343.902299  -4.275320
-185.745142   -16.289022   -1055.527
 0.25000  -7.965926 -304.065775  -4.275320
-185.745142   -17.927060   -1135.005
 0.50000  -7.965926 -266.108704  -4.275320
-185.745142   -19.595276   -1214.518
 0.75000  -7.965926 -231.251141  -4.275320
-185.745142   -21.299982   -1294.033
 1.00000  -7.965926 -200.564242  -4.275320
-185.745142   -23.212099   -1373.547

 COMB DB-G2-4 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   7.925602   291.271569   3.736328
343.707745   40.018941   3902.197
 0.25000   7.925602   318.198020   3.736328
343.707745   39.428000   3826.046
 0.50000   7.925602   348.464013   3.736328
343.707745   39.807614   3744.156
 0.75000   7.925602   381.070307   3.736328
343.707745   41.403084   3659.769
 1.00000   7.925602   414.866917   3.736328
343.707745   44.076571   3562.597

 COMB DB-G2-4 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -8.187391  -307.288590  -3.946819
-332.090810   -17.559112   -1163.247
 0.25000  -8.187391  -273.726680  -3.946819
-332.090810   -19.364516   -1251.476
 0.50000  -8.187391  -241.747852  -3.946819
-332.090810   -21.204629   -1339.736
 0.75000  -8.187391  -212.379946  -3.946819
-332.090810   -23.081219   -1427.997
 1.00000  -8.187391  -186.527284  -3.946819
-332.090810   -25.135775   -1516.258

 COMB DB-G3-1 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   2.356560   69.015726   1.294199
68.937514   5.717054   1238.398
 0.25000   2.356560   69.673736   1.294199
66.790149   5.956060   1189.736
 0.50000   2.356560   70.416711   1.294199
65.219404   6.320039   1149.895
 0.75000   2.356560   71.216775   1.294199
63.667355   6.836901   1119.798
 1.00000   2.356560   72.043071   1.294199
62.124269   7.596564   1099.328
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1213

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -3.082474  -30.233586  -1.445537
-278.744876   -6.137150 -433.688804
 0.25000  -3.082474  -29.412895  -1.445537
-280.311699   -6.892275 -467.754840
 0.50000  -3.082474  -28.628323  -1.445537
-281.876167   -7.655113 -501.820992
 0.75000  -3.082474  -27.907497  -1.445537
-283.448312   -8.420712 -535.887786
 1.00000  -3.082474  -27.275748  -1.445537
-285.598249   -9.192706 -569.954581

 COMB DB-G3-2 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   6.005245   166.069514   2.261334
234.049481   20.384352   2460.015
 0.25000   6.005245   173.110660   2.261334
214.166280   20.197313   2371.138
 0.50000   6.005245   181.056120   2.261334
199.624289   20.582778   2300.661
 0.75000   6.005245   188.616212   2.261334
185.255618   21.672415   2254.727
 1.00000   6.005245   198.453947   2.261334
170.965845   23.470174   2224.361

 COMB DB-G3-2 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -4.894862  -126.006336  -2.881717
-485.557369   -10.853419 -769.936654
 0.25000  -4.894862  -117.225165  -2.881717
-500.064420   -12.055043 -829.137690
 0.50000  -4.894862  -108.534213  -2.881717
-514.546264   -13.276341 -888.340935
 0.75000  -4.894862  -101.125478  -2.881717
-529.099772   -14.510890 -947.550142
 1.00000  -4.894862   -94.365310  -2.881717
-549.001372   -15.769753   -1006.759

 COMB DB-G3-3 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   7.473761   278.571600   3.882282
120.317879   40.406216   3561.893
 0.25000   7.473761   311.020089   3.882282
121.349714   39.209789   3522.540
 0.50000   7.473761   347.489568   3.882282
122.474525   39.096239   3460.530
 0.75000   7.473761   386.780818   3.882282
123.681324   40.272195   3374.285
 1.00000   7.473761   427.505615   3.882282
125.105124   42.640780   3256.492

 COMB DB-G3-3 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -7.282192  -329.334015  -4.239938
-375.708303   -15.918799   -1142.066
 0.25000  -7.282192  -288.891278  -4.239938
-374.353000   -16.718257   -1121.223
 0.50000  -7.282192  -250.356874  -4.239938
-373.774071   -18.542062   -1200.414
 0.75000  -7.282192  -214.969461  -4.239938
-373.774071   -20.383443   -1279.604
 1.00000  -7.282192  -183.814950  -4.239938
-373.774071   -22.260285   -1358.795

 COMB DB-G3-4 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   7.615722   291.540994   4.341330
292.301682   41.487927   3894.175
 0.25000   7.615722   318.113565   4.341330
292.301681   40.539985   3815.063
 0.50000   7.615722   347.981484   4.341330
292.301681   40.587449   3731.685
 0.75000   7.615722   380.159012   4.341330
292.301681   41.873268   3648.282
 1.00000   7.615722   413.511275   4.341330
292.301681   44.333183   3553.683
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1214

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -9.815702  -305.452654  -4.088739
-383.937670   -17.227300   -1160.479
 0.25000  -9.815702  -272.332009  -4.088739
-383.937670   -19.182835   -1248.684
 0.50000  -9.815702  -240.773692  -4.088739
-383.937670   -21.179463   -1336.919
 0.75000  -9.815702  -211.792039  -4.088739
-383.937670   -23.216487   -1425.156
 1.00000  -9.815702  -186.279144  -4.088739
-383.937670   -25.468917   -1513.392

 COMB DL-G1-1 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   11.918756   97.498894   1.248912
340.953047   9.393316   1361.843
 0.25000   11.918756   97.504293   1.248912
342.067523   9.426042   1307.967
 0.50000   11.918756   98.438875   1.248912
343.265303   9.849230   1255.442
 0.75000   11.918756   98.960988   1.248912
344.545514   10.969520   1205.104
 1.00000   11.918756   99.469013   1.248912
345.908722   12.859772   1156.554

 COMB DL-G1-1 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -4.019841  -45.570213  -2.810231
-107.394319  -18.377493 -891.141726
 0.25000  -4.019841  -45.064710  -2.810231
-106.096024  -16.858334 -897.372846
 0.50000  -4.019841  -44.569181  -2.810231
-104.881809  -15.915087 -903.611808
 0.75000  -4.019841  -44.105866  -2.810231
-103.751795  -15.505826 -909.846378
 1.00000  -4.019841  -43.694882  -2.810231
-102.705402  -15.779011  -916.076538

 COMB DL-G1-2 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   13.174955  207.776580   3.780145
569.733789   26.633654   2602.106
 0.25000   13.174955  211.482652   3.780145
577.686401   25.513205   2497.783
 0.50000   13.174955  215.592653   3.780145
586.236211   25.105882   2400.527
 0.75000   13.174955  219.936475   3.780145
595.382209   25.693148   2318.049
 1.00000   13.174955  224.327316   3.780145
605.121423   27.422965   2244.166

 COMB DL-G1-2 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -11.603577  -131.141842  -3.644506
-254.925825   -27.571370   -1596.181
 0.25000  -11.603577  -126.937661  -3.644506
-245.693558   -27.664917   -1605.506
 0.50000  -11.603577  -122.816411  -3.644506
-237.000912   -28.196950   -1614.857
 0.75000  -11.603577  -118.963064  -3.644506
-228.934487   -29.327868   -1624.172
 1.00000  -11.603577  -115.544947  -3.644506
-221.465944   -31.586070   -1633.505

 COMB DL-G1-3 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   14.579468  320.859320   5.275762
492.197122   44.632344   3717.903
 0.25000   14.579468  345.853369   5.275762
487.202246   43.221529   3643.791
 0.50000   14.579468  373.575174   5.275762
482.539174   42.730031   3538.237
 0.75000   14.579468  402.865931   5.275762
478.204922   43.587852   3405.257
 1.00000   14.579468  432.412805   5.275762
474.190149   45.839909   3242.844
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1215

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -12.486672  -306.104457  -5.025631
-179.283701   -33.996225   -2171.983
 0.25000  -12.486672  -277.754880  -5.025631
-183.244910   -34.670522   -2183.003
 0.50000  -12.486672  -249.956257  -5.025631
-187.514545   -35.672886   -2194.032
 0.75000  -12.486672  -223.956864  -5.025631
-192.095187   -37.204739   -2205.067
 1.00000  -12.486672  -200.908304  -5.025631
-196.991813   -39.734577   -2216.068

 COMB DL-G1-4 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   15.594425  341.180294   5.066599
488.219190   45.003580   4036.938
 0.25000   15.594425  361.750142   5.066599
484.797981   44.052399   3932.772
 0.50000   15.594425  384.563691   5.066599
481.604047   44.025386   3806.543
 0.75000   15.594425  408.668407   5.066599
478.636398   45.429430   3670.355
 1.00000   15.594425  433.049791   5.066599
475.890948   48.127323   3518.407

 COMB DL-G1-4 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -11.993314  -296.113861  -5.169863
-336.983072   -35.394412   -2364.762
 0.25000  -11.993314  -272.783696  -5.169863
-339.654918   -36.138465   -2376.568
 0.50000  -11.993314  -249.906961  -5.169863
-342.535919   -37.254891   -2388.365
 0.75000  -11.993314  -228.510887  -5.169863
-345.628481   -38.885280   -2400.170
 1.00000  -11.993314  -209.542168  -5.169863
-348.936389   -41.389621   -2411.946

 COMB DL-G2-1 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   2.618144   142.179853   3.226416
189.100446   23.893094   1488.549
 0.25000   2.618144   156.164052   3.226416
209.275355   22.393861   1468.530
 0.50000   2.618144   171.668106   3.226416
230.961982   21.391806   1431.770
 0.75000   2.618144   188.050309   3.226416
254.158010   20.879784   1382.524
 1.00000   2.618144   204.617365   3.226416
278.870878   20.753088   1317.574

 COMB DL-G2-1 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -9.121405  -158.602262  -1.436336
-198.708224   -10.912465   -813.178838
 0.25000  -9.121405  -142.742718  -1.436336
-175.305289   -12.298147   -816.378080
 0.50000  -9.121405  -127.195825  -1.436336
-153.586164   -13.901479   -819.577773
 0.75000  -9.121405  -112.659466  -1.436336
-132.956623   -15.577349   -822.814159
 1.00000  -9.121405   -99.761521  -1.436336
-114.059464   -17.551678   -826.056662

 COMB DL-G2-2 ----------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   7.053820   278.916987   4.833834
158.798737   43.936671   2922.192
 0.25000   7.053820   306.875281   4.833834
158.798737   42.420436   2885.467
 0.50000   7.053820   337.874387   4.833834
158.798737   41.727223   2814.407
 0.75000   7.053820   370.626508   4.833834
158.798737   42.039664   2717.384
 1.00000   7.053820   403.756154   4.833834
158.798737   43.140428   2588.361
 Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1216

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ----------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000  -10.199976 -313.982115  -3.547016
```

```
-149.708214  -20.848514  -1588.098
 0.25000  -10.199976 -282.280055  -3.547016
-149.708214  -22.462673  -1594.081
 0.50000  -10.199976 -251.195224  -3.547016
-149.708214  -24.273967  -1600.040
 0.75000  -10.199976 -222.123388  -3.547016
-149.708214  -26.196957  -1606.032
 1.00000  -10.199976 -196.342726  -3.547016
-149.708214  -28.477943  -1611.973

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   11.123345  329.726139    5.644933
399.825462  47.384306  3746.079
 0.25000   11.123345  355.258329    5.644933
400.625985  46.077682  3668.772
 0.50000   11.123345  383.567009    5.644933
401.477517  45.591846  3561.876
 0.75000   11.123345  413.477886    5.644933
402.376205  46.204369  3435.132
 1.00000   11.123345  443.730799    5.644933
403.317576  47.996134  3282.804

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -12.165288 -321.140473   -4.382898
-218.628558  -30.810225  -2139.464
 0.25000  -12.165288 -292.190790   -4.382898
-218.055680  -28.504137  -2149.190
 0.50000  -12.165288 -263.803851   -4.382898
-217.657242  -34.384039  -2158.884
 0.75000  -12.165288 -237.254299   -4.382898
-217.536367  -36.495247  -2177.232
 1.00000  -12.165288 -213.710577   -4.382898
-217.455421  -39.329511  -2196.242

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   10.759546  339.372437    5.286307
393.341002  42.373171  4044.042
 0.25000   10.759546  360.961629    5.286307
393.341002  42.275037  3943.116
 0.50000   10.759546  384.898912    5.286307
393.341002  42.288862  3818.520
 0.75000   10.759546  410.189862    5.286307
393.341002  43.273636  3680.282
 1.00000   10.759546  435.772333    5.286307
393.341002  45.256209  3523.566

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -12.500685 -299.182395   -4.175149
-379.503855  -32.499656  -2356.561
 0.25000  -12.500685 -274.702296   -4.175149
-379.503855  -34.488910  -2368.096
 0.50000  -12.500685 -250.698816   -4.175149
-379.503855  -36.659788  -2379.592
 0.75000  -12.500685 -228.208705   -4.175149
-379.503855  -39.042626  -2398.300
 1.00000  -12.500685 -208.342116   -4.175149
-379.503855  -42.043670  -2417.541

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    2.824739   99.191599    1.864000
98.769016   6.373248   1389.313
 0.25000    2.824739   99.733169    1.864000
97.161877   6.355819   1333.703
 0.50000    2.824739  100.336492    1.864000
95.657728   6.731228   1280.394
 0.75000    2.824739  100.973989    1.864000
94.258676   7.410721   1229.458
 1.00000    2.824739  101.618731    1.864000
92.962752   8.341297   1181.131
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                     Page
<              MOVING         LOAD          >
                              1217

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -5.880100  -47.305369   -1.413058
-323.753216  -13.791142  -879.556491
 0.25000   -5.880100  -46.688362   -1.413058
-325.129061  -13.091875  -885.859307
 0.50000   -5.880100  -46.083319   -1.413058
-326.597940  -14.264754  -892.162772
 0.75000   -5.880100  -45.517421   -1.413058
-328.169822  -15.655869  -898.474798
 1.00000   -5.880100  -45.018103   -1.413058
-329.845355  -17.201872  -904.757422

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    8.279420  208.337259    2.999004
251.172142  20.839778  2604.613
 0.25000    8.279420  213.243686    2.999004
239.010358  20.885303  2504.486
 0.50000    8.279420  218.705461    2.999004
227.640198  21.781318  2409.230
 0.75000    8.279420  224.476468    2.999004
217.061454  23.379184  2326.274
 1.00000    8.279420  230.313421    2.999004
207.262684  25.490485  2250.207

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -7.787946 -138.349619   -3.162966
-526.721185  -20.956017  -1555.579
 0.25000   -7.787946 -132.764009   -3.162966
-537.040533  -21.733322  -1564.199
 0.50000   -7.787946 -127.286739   -3.162966
-548.142169  -23.073916  -1572.812
 0.75000   -7.787946 -122.163853   -3.162966
-560.021515  -24.715729  -1591.034
 1.00000   -7.787946 -117.640138   -3.162966
-572.678636  -26.562926  -1602.214

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    8.700357  316.325909    5.005138
174.963128  39.530260  3664.181
 0.25000    8.700357  341.617128    5.005138
179.203764  38.680963  3593.228
 0.50000    8.700357  369.652113    5.005138
183.759791  38.828412  3490.132
 0.75000    8.700357  399.272598    5.005138
188.620334  40.011760  3359.010
 1.00000    8.700357  429.232518    5.005138
193.783586  41.977473  3198.175

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -11.456192 -305.485065   -4.129383
-449.367654  -27.497797  -2107.663
 0.25000  -11.456192 -276.815911   -4.129383
-444.760950  -29.306319  -2118.096
 0.50000  -11.456192 -248.704163   -4.129383
-440.437155  -31.546822  -2128.525
 0.75000  -11.456192 -222.412046   -4.129383
-436.405071  -34.047218  -2138.983
 1.00000  -11.456192 -199.089598   -4.129383
-432.672040  -36.758810  -2149.354

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    9.487764  340.081079    6.010153
355.099821  43.665234  4034.001
 0.25000    9.487764  360.869278    6.010153
357.939019  42.408150  3928.891
 0.50000    9.487764  383.913570    6.010153
360.985217  42.102401  3803.134
 0.75000    9.487764  408.262122    6.010153
364.236906  42.808860  3666.520
 1.00000    9.487764  432.889173    6.010153
367.687153  44.624702  3513.659
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                     Page
<              MOVING         LOAD          >
                              1218

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -14.967563 -296.117201   -4.165633
-458.328743  -32.205484  -2349.110
 0.25000  -14.967563 -272.551124   -4.165633
-455.300418  -34.468398  -2360.842
 0.50000  -14.967563 -249.443217   -4.165633
-452.457115  -37.177056  -2390.922
 0.75000  -14.967563 -227.831038   -4.165633
-449.804108  -40.186781  -2409.304
 1.00000  -14.967563 -208.661065   -4.165633
-447.347582  -43.798411  -2427.603

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   10.523159  294.244409    4.341330
511.562096  45.517357  3902.197
 0.25000   10.523159  326.205873    4.341330
523.229785  44.173672  3826.046
 0.50000   10.523159  362.129341    4.341330
534.917478  44.263953  3744.156
 0.75000   10.523159  400.831151    4.341330
546.689319  45.796169  3659.769
 1.00000   10.523159  440.962279    4.341330
562.714820  48.575259  3562.597

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -9.815702 -354.341614   -4.951415
-485.557369  -18.044858  -1167.395
 0.25000   -9.815702 -310.567769   -4.951415
-500.064420  -19.645412  -1256.029
 0.50000   -9.815702 -268.858693   -4.951415
-514.546264  -21.282407  -1344.693
 0.75000   -9.815702 -231.251141   -4.951415
-529.099772  -23.216487  -1433.359
 1.00000   -9.815702 -200.564242   -4.951415
-549.001372  -25.468917  -1522.024

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   15.594425  341.180294    6.010153
569.733789  47.384306  4044.042
 0.25000   15.594425  361.750142    6.010153
577.686401  46.077682  3943.116
 0.50000   15.594425  384.898912    6.010153
586.236211  45.591846  3818.520
 0.75000   15.594425  413.477886    6.010153
595.382209  46.204369  3680.282
 1.00000   15.594425  443.730799    6.010153
605.121423  48.127323  3523.566

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -14.967563 -321.140473   -5.169863
-526.721185  -35.394412  -2364.762
 0.25000  -14.967563 -292.190780   -5.169863
-537.040533  -36.138465  -2376.568
 0.50000  -14.967563 -263.803851   -5.169863
-548.142169  -37.254891  -2390.922
 0.75000  -14.967563 -237.254299   -5.169863
-560.021515  -40.186781  -2409.304
 1.00000  -14.967563 -213.710577   -5.169863
-572.678636  -43.798411  -2427.603

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   15.594425  341.180294    6.010153
569.733789  47.384306  4044.042
 0.25000   15.594425  361.750142    6.010153
577.686401  46.077682  3943.116
 0.50000   15.594425  384.898912    6.010153
586.236211  45.591846  3818.520
 0.75000   15.594425  413.477886    6.010153
595.382209  46.204369  3680.282
 1.00000   15.594425  443.730799    6.010153
605.121423  48.575259  3562.597
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                     Page
<              MOVING         LOAD          >
                              1219

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -14.967563 -354.341614   -5.169863
-526.721185  -35.394412  -2364.762
 0.25000  -14.967563 -310.567769   -5.169863
-537.040533  -36.138465  -2376.568
 0.50000  -14.967563 -268.858693   -5.169863
-548.142169  -37.254891  -2390.922
 0.75000  -14.967563 -237.254299   -5.169863
-560.021515  -40.186781  -2409.304
 1.00000  -14.967563 -213.710577   -5.169863
-572.678636  -43.798411  -2427.603

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   15.594425  341.180294    6.010153
569.733789  47.384306  4044.042
 0.25000   15.594425  361.750142    6.010153
577.686401  46.077682  3943.116
 0.50000   15.594425  384.898912    6.010153
586.236211  45.591846  3818.520
 0.75000   15.594425  413.477886    6.010153
595.382209  46.204369  3680.282
 1.00000   15.594425  443.730799    6.010153
605.121423  48.575259  3562.597

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -14.967563 -354.341614   -5.169863
-526.721185  -35.394412  -2364.762
 0.25000  -14.967563 -310.567769   -5.169863
-537.040533  -36.138465  -2376.568
 0.50000  -14.967563 -268.858693   -5.169863
-548.142169  -37.254891  -2390.922
 0.75000  -14.967563 -237.254299   -5.169863
-560.021515  -40.186781  -2409.304
 1.00000  -14.967563 -213.710577   -5.169863
-572.678636  -43.798411  -2427.603

ELEM      92 ================== LENGTH
=    4.957431

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    6.036294   87.754822    1.022422
410.209481  10.719151  1063.468
 0.25000    6.036294   88.301549    1.022422
411.530334  12.628760  982.254023
 0.50000    6.036294   88.911020    1.022422
412.819763  14.854568  907.427082
 0.75000    6.036294   89.564108    1.022422
414.087782  17.597995  840.752412
 1.00000    6.036294   90.243280    1.022422
415.804309  20.889519  784.164367

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -3.250104  -27.121486   -3.593451
-74.329748   -8.315328  -575.102593
 0.25000   -3.250104  -26.445224   -3.593451
-72.594555   -8.184574  -609.696099
 0.50000   -3.250104  -25.802485   -3.593451
-71.330277   -8.100032  -644.289615
 0.75000   -3.250104  -25.213327   -3.593451
-70.107170   -8.045782  -678.883132
 1.00000   -3.250104  -24.694237   -3.593451
-68.915746   -8.006356  -713.476649

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    7.423907  200.074440    4.302650
691.252793  25.143250  2196.001
 0.25000    7.423907  205.541196    4.302650
703.143960  25.741374  2043.686
 0.50000    7.423907  211.635414    4.302650
714.752801  26.792735  1910.807
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                     Page
<              MOVING         LOAD          >
                              1220

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
     T          M2          M3
 0.75000    7.423907  218.165509    4.302650
726.167564  28.551114  1807.338
 1.00000    7.423907  224.954078    4.302650
741.621531  30.868596  1725.354

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -8.479424 -100.412811   -3.976924
-198.581377  -17.115674  -1028.982
 0.25000   -8.479425  -93.653482   -3.976924
-182.963863  -20.645724  -1089.974
 0.50000   -8.479425  -87.226984   -3.976924
-171.585222  -24.388985  -1150.967
 0.75000   -8.479425  -81.336013   -3.976924
-160.578405  -28.244286  -1211.960
 1.00000   -8.479425  -76.145703   -3.976924
-149.858172  -32.167489  -1272.953

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    9.407404  329.349214    5.270301
560.453799  44.120006  3251.978
 0.25000    9.407404  361.107722    5.270301
557.858788  43.419076  3136.961
 0.50000    9.407404  396.518320    5.270301
555.942318  43.658222  2999.554
 0.75000    9.407404  434.449811    5.270301
554.012451  45.194415  2841.055
 1.00000    9.407404  473.752757    5.270301
552.044487  47.929781  2655.109

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -8.963544 -298.555822   -5.021133
-104.338014  -22.569788  -1383.534
 0.25000   -8.963544 -259.427015   -5.021133
-104.338014  -26.298063  -1464.582
 0.50000   -8.963544 -222.109223   -5.021133
-104.338014  -30.111510  -1545.630
 0.75000   -8.963544 -187.883707   -5.021133
-104.338014  -33.990276  -1626.677
 1.00000   -8.963544 -157.737189   -5.021133
-104.348559  -37.916484  -1707.725

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   10.430123  348.971503    5.063254
508.998201  44.217936  3554.641
 0.25000   10.430123  375.089252    5.063254
508.440579  44.007126  3389.322
 0.50000   10.430123  404.208539    5.063254
507.899953  45.022651  3223.438
 0.75000   10.430123  435.399036    5.063254
507.502445  47.546074  3060.167
 1.00000   10.430123  467.722435    5.063254
507.502445  51.280010  2889.028

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -8.633645 -272.246239   -5.735598
-328.795460  -24.197689  -1522.154
 0.25000   -8.633645 -240.068303   -5.735598
-328.795460  -27.975247  -1611.325
 0.50000   -8.633645 -209.377589   -5.735598
-328.795460  -31.841152  -1700.502
 0.75000   -8.633645 -181.235217   -5.735598
-328.795460  -35.767267  -1789.678
 1.00000   -8.633645 -156.442959   -5.735598
-328.795460  -39.742162  -1878.855

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    2.304656  155.960833    3.640217
234.175447  21.972350  1421.616
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                     Page
<              MOVING         LOAD          >
                              1221

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
     T          M2          M3
 0.25000    2.304656  173.301790    3.640217
256.400629  19.633992  1383.906
 0.50000    2.304656  192.633997    3.640217
278.117599  17.590206  1336.794
 0.75000    2.304656  213.345828    3.640217
299.485641  15.897273  1282.668
 1.00000    2.304656  234.849990    3.640217
328.359759  14.501119  1212.965

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -5.870876 -162.431242   -0.465443
-175.603018  -10.066459 -527.641685
 0.25000   -5.870876 -141.021388   -0.465443
-146.446758  -13.891114 -558.061733
 0.50000   -5.870876 -120.639474   -0.465443
-125.209663  -18.001576 -588.481793
 0.75000   -5.870876 -101.953567   -0.465443
-104.683143  -22.272338 -618.901852
 1.00000   -5.870876  -85.490789   -0.465443
-84.710366  -26.631196 -649.321912

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    6.160998  303.888377    5.177388
165.851236  43.694173  2764.683
 0.25000    6.160998  338.566216    5.177388
165.851236  40.776708  2696.706
 0.50000    6.160998  377.228671    5.177388
165.851236  38.825535  2607.953
 0.75000    6.160998  418.641311    5.177388
165.851236  38.244097  2501.729
 1.00000    6.160998  461.558306    5.177388
165.851236  38.811121  2362.299

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -7.150719 -321.873276   -3.171150
-152.065236  -17.337156  -1018.284
 0.25000   -7.150719 -279.149398   -3.171150
-152.065236  -21.860400  -1078.789
 0.50000   -7.150719 -238.400299   -3.171150
-152.065236  -26.487062  -1135.303
 0.75000   -7.150719 -201.034889   -3.171150
-152.065236  -31.183588  -1193.816
 1.00000   -7.150719 -168.116904   -3.171150
-152.065236  -35.938108  -1252.330

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    8.455840  345.767977    5.960244
463.044642  45.824889  3381.394
 0.25000    8.455840  377.327788    5.960244
463.391464  44.576319  3253.733
 0.50000    8.455840  412.512012    5.960244
463.815871  44.295230  3115.842
 0.75000    8.455840  450.199528    5.960244
464.295516  45.375017  2970.680
 1.00000    8.455840  489.256540    5.960244
464.710978  47.552486  2802.872

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -7.752828 -307.952094   -4.279400
-180.883553  -22.663336  -1373.691
 0.25000   -7.752828 -269.070761   -4.279400
-180.883553  -26.772774  -1453.590
 0.50000   -7.752828 -231.986992   -4.279400
-180.883553  -31.269184  -1533.496
 0.75000   -7.752828 -197.982048   -4.279400
-180.883553  -35.892876  -1613.401
 1.00000   -7.752828 -168.024655   -4.279400
-180.883553  -42.969252  -1693.307
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                     Page
<              MOVING         LOAD          >
                              1222

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    7.693160  348.417905    5.587659
412.809012  40.709413  3562.757
 0.25000    7.693160  375.005802    5.587659
412.809012  39.626188  3400.488
 0.50000    7.693160  404.648751    5.587659
412.809012  39.419680  3237.137
 0.75000    7.693160  436.400297    5.587659
412.809012  40.532541  3074.730
 1.00000    7.693160  469.305250    5.587659
412.809012  42.768260  2899.239

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -8.049607 -271.490144   -4.016536
-396.977690  -24.546598  -1516.306
 0.25000   -8.049607 -238.733256   -4.016536
-396.977690  -28.717051  -1605.122
 0.50000   -8.049607 -207.490454   -4.016536
-396.977690  -33.222604  -1693.943
 0.75000   -8.049607 -178.841965   -4.016536
-396.977690  -38.835283  -1782.764
 1.00000   -8.049607 -153.603367   -4.016536
-396.977690  -44.497276  -1871.585

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    2.223522   91.195459    1.061405
67.224314   6.073533   1100.439
 0.25000    2.223522   91.844824    1.061405
65.116527   5.857690   1016.410
 0.50000    2.223522   92.572030    1.061405
63.579532   5.756383   939.192893
 0.75000    2.223522   93.350649    1.061405
62.089771   5.834682   871.153767
 1.00000    2.223522   94.154734    1.061405
60.635377   6.116677   814.937607

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -3.143377  -27.839928   -1.351796
-395.531528   -9.016738  -569.821396
 0.25000   -3.143377  -27.039635   -1.351796
-397.131484  -10.258767  -604.356100
 0.50000   -3.143377  -26.273628   -1.351796
-398.689537  -11.511741  -638.890815
 0.75000   -3.143377  -25.570978   -1.351796
-400.218748  -12.773674  -673.425530
 1.00000   -3.143377  -24.954930   -1.351796
-402.299222  -14.040871  -707.960245

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000    5.946155  204.559067    2.233720
207.202350  21.065943  2225.920
 0.25000    5.946155  211.508248    2.233720
187.680150  20.745733  2078.317
 0.50000    5.946155  219.285753    2.233720
173.444363  21.122577  1948.363
 0.75000    5.946155  227.613584    2.233720
159.639014  22.552551  1843.949
 1.00000    5.946155  236.217853    2.233720
146.164033  24.843446  1756.930

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -4.858657 -110.338753   -3.768639
-648.758859  -15.396490  -1006.603
 0.25000   -4.858657 -101.774805   -3.768639
-663.573541  -17.510817  -1066.318
 0.50000   -4.858657  -93.581676   -3.768639
-677.998805  -19.649533  -1126.044
 0.75000   -4.858657  -86.066562   -3.768639
-692.155536  -21.801019  -1185.769
 1.00000   -4.858657  -79.473402   -3.768639
-711.421559  -23.960311  -1245.495
```

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1223

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.108630	330.540262	4.200707
113.052970	39.589341	3257.741	
0.25000	7.108630	362.581123	4.200707
114.012361	37.368704	3143.333	
0.50000	7.108630	398.300303	4.200707
115.035335	36.089202	3007.171	
0.75000	7.108630	436.561200	4.200707
116.103934	36.096763	2849.782	
1.00000	7.108630	476.212763	4.200707
117.315221	37.329045	2663.802	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.046000	-300.391103	-3.735210
-509.462848	-21.740722	-1358.680	
0.25000	-7.046000	-260.917862	-3.735210
-509.462848	-24.206169	-1436.391	
0.50000	-7.046000	-223.269823	-3.735210
-509.462848	-28.770374	-1518.109	
0.75000	-7.046000	-188.748799	-3.735210
-509.462848	-32.412038	-1597.827	
1.00000	-7.046000	-158.333644	-3.735210
-509.462848	-36.112823	-1677.545	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.309816	348.860892	6.207134
348.608731	40.995738	3584.207	
0.25000	7.309816	375.099389	6.207134
348.608729	39.176358	3389.643	
0.50000	7.309816	404.352498	6.207134
348.608729	38.203411	3223.966	
0.75000	7.309816	435.686555	6.207134
348.608729	38.362185	3060.468	
1.00000	7.309816	468.158422	6.207134
348.608729	39.569530	2887.703	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.710604	-271.869955	-3.716155
-471.921975	-24.948539	-1513.368	
0.25000	-9.710604	-239.543697	-3.716155
-471.921975	-30.717452	-1602.236	
0.50000	-9.710604	-208.711680	-3.716155
-471.921975	-37.031407	-1691.111	
0.75000	-9.710604	-180.439839	-3.716155
-471.921975	-43.404907	-1779.985	
1.00000	-9.710604	-155.532981	-3.716155
-471.921975	-49.826791	-1868.859	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.102322	126.840015	1.388178
485.042536	12.233391	1155.082	
0.25000	12.102322	127.294260	1.388178
486.206481	14.510771	1054.730	
0.50000	12.102322	127.792372	1.388178
487.426734	18.591639	957.116732	
0.75000	12.102322	128.315800	1.388178
488.701734	23.230231	861.198640	
1.00000	12.102322	128.844481	1.388178
490.031026	28.179498	767.660138	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.906219	-36.742589	-4.942141
-92.670373	-15.579064	-915.839769	
0.25000	-3.906219	-36.256915	-4.942141
-91.397171	-14.001314	-922.327807	
0.50000	-3.906219	-35.784061	-4.942141
-90.233444	-14.070999	-928.833638	
0.75000	-3.906219	-35.344660	-4.942141
-89.177341	-14.520766	-935.335708	
1.00000	-3.906219	-34.954817	-4.942141
-88.224447	-15.164959	-941.796182	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1224

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.244658	257.648383	6.330380
769.907015	25.883050	2242.065	
0.25000	13.244658	261.426022	6.330380
778.223490	26.461885	2061.117	
0.50000	13.244658	265.568239	6.330380
786.936551	29.196493	1885.834	
0.75000	13.244658	269.92127	6.330380
796.041441	32.700517	1725.507	
1.00000	13.244658	274.317915	6.330380
805.540250	36.760093	1573.863	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.624169	-109.770303	-5.127261
-211.130559	-31.419483	-1633.138	
0.25000	-11.624169	-105.731155	-5.127261
-202.051465	-34.731899	-1642.907	
0.50000	-11.624169	-101.798499	-5.127261
-193.101218	-39.993526	-1652.682	
0.75000	-11.624169	-98.144068	-5.127261
-186.222321	-45.764638	-1662.431	
1.00000	-11.624169	-94.901755	-5.127261
-179.427675	-51.800875	-1672.078	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.445437	386.276960	7.820836
661.566936	43.118658	3241.162	
0.25000	14.445437	411.734330	7.820836
656.438056	42.694818	3067.217	
0.50000	14.445437	439.657092	7.820836
651.745038	44.805778	2860.905	
0.75000	14.445437	469.002246	7.820836
647.460615	48.162932	2627.592	
1.00000	14.445437	498.641387	7.820836
643.564089	52.385836	2364.723	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.276729	-272.973085	-6.175813
-147.742044	-38.854261	-2215.816	
0.25000	-12.276729	-245.717792	-6.175813
-151.784956	-42.502483	-2227.588	
0.50000	-12.276729	-219.208691	-6.175813
-156.048986	-48.155166	-2239.292	
0.75000	-12.276729	-194.562745	-6.175813
-160.534334	-54.367229	-2251.070	
1.00000	-12.276729	-172.699483	-6.175813
-165.249625	-60.867186	-2262.450	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.532017	412.375629	7.343716
603.222636	44.277744	3517.738	
0.25000	15.532017	433.326868	7.343716
599.682731	44.827134	3302.615	
0.50000	15.532017	456.305934	7.343716
596.439135	47.894075	3065.266	
0.75000	15.532017	480.455575	7.343716
593.476254	52.294344	2817.474	
1.00000	15.532017	504.847158	7.343716
590.778819	57.555471	2554.929	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.798393	-258.831567	-6.909592
-368.189235	-39.524192	-2411.920	
0.25000	-11.798393	-236.421649	-6.909592
-370.901454	-42.963920	-2424.062	
0.50000	-11.798393	-214.586346	-6.909592
-373.765902	-48.223395	-2436.209	
0.75000	-11.798393	-194.304075	-6.909592
-376.784668	-54.056574	-2448.370	
1.00000	-11.798393	-176.309859	-6.909592
-379.961116	-60.189667	-2460.186	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1225

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.421540	165.507455	5.825051
229.959765	19.650960	1317.162	
0.25000	2.421540	179.755561	5.825051
251.087501	17.128854	1261.974	
0.50000	2.421540	195.378297	5.825051
273.200424	15.402100	1189.893	
0.75000	2.421540	211.796597	5.825051
296.307800	14.096909	1105.841	
1.00000	2.421540	228.379146	5.825051
320.373188	13.187421	1005.861	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.233078	-143.801289	-0.754883
-172.130702	-17.470726	-825.982191	
0.25000	-9.233078	-128.565943	-0.754883
-149.199509	-22.235914	-829.641620	
0.50000	-9.233078	-113.729851	-0.754883
-128.242336	-27.740635	-833.293099	
0.75000	-9.233078	-99.944785	-0.754883
-109.230961	-33.500028	-836.996322	
1.00000	-9.233078	-87.713341	-0.754883
-92.072162	-39.380589	-840.471557	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.753808	324.172243	7.463174
174.969620	40.394619	2588.460	
0.25000	6.753808	352.647940	7.463174
174.969620	38.148285	2483.156	
0.50000	6.753808	383.872781	7.463174
174.969620	37.368120	2343.393	
0.75000	6.753808	416.688340	7.463174
174.969620	37.669619	2178.708	
1.00000	6.753808	449.832695	7.463174
174.969620	38.714030	1981.584	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.020164	-285.249589	-3.486850
-158.769365	-27.307911	-1612.054	
0.25000	-10.020164	-254.798735	-3.486850
-158.769365	-32.243137	-1618.544	
0.50000	-10.020164	-225.128912	-3.486850
-158.769365	-38.103812	-1625.013	
0.75000	-10.020164	-197.569386	-3.486850
-158.769365	-44.281653	-1631.546	
1.00000	-10.020164	-173.112688	-3.486850
-158.769365	-50.635193	-1637.622	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.927204	392.436010	8.829591
510.170390	44.758316	3281.869	
0.25000	10.927204	418.442180	8.829591
511.101173	43.621883	3109.376	
0.50000	10.927204	446.957225	8.829591
512.042554	44.670929	2904.802	
0.75000	10.927204	476.924965	8.829591
512.966385	47.015959	2680.171	
1.00000	10.927204	507.192977	8.829591
513.866293	50.174409	2430.286	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.032461	-284.769456	-5.067696
-202.404811	-38.070790	-2198.198	
0.25000	-12.032461	-256.961390	-5.067696
-202.381683	-43.072400	-2215.449	
0.50000	-12.032461	-229.866634	-5.067696
-202.380930	-50.054687	-2277.010	
0.75000	-12.032461	-204.699031	-5.067696
-202.380930	-57.915519	-2498.715	
1.00000	-12.032461	-182.363312	-5.067696
-202.380860	-66.107512	-2319.990	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1226

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.596056	409.825328	8.149642
463.106369	40.585698	3523.659	
0.25000	10.596056	431.814054	8.149642
463.106369	39.885128	3315.842	
0.50000	10.596056	455.925649	8.149642
463.106369	41.120721	3080.270	
0.75000	10.596056	481.265584	8.149642
463.106369	43.727190	2829.988	
1.00000	10.596056	506.859414	8.149642
463.106369	47.060609	2561.991	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.410036	-260.109220	-4.924743
-442.543807	-39.745092	-2417.709	
0.25000	-12.410036	-236.595282	-4.924743
-442.543807	-44.470395	-2437.131	
0.50000	-12.410036	-213.684471	-4.924743
-442.543807	-50.966973	-2491.800	
0.75000	-12.410036	-192.403205	-4.924743
-442.543807	-58.330507	-2513.265	
1.00000	-12.410036	-173.517921	-4.924743
-442.543807	-66.024898	-2534.339	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.697755	128.871943	1.922486
79.595310	5.779046	1182.691	
0.25000	2.697755	129.423450	1.922486
78.008137	5.381331	1081.509	
0.50000	2.697755	130.030770	1.922486
76.559046	5.338487	982.035074	
0.75000	2.697755	130.669182	1.922486
75.243489	5.665210	884.738375	
1.00000	2.697755	131.313913	1.922486
74.053541	6.282254	790.283805	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.896266	-37.427178	-1.299275
-460.148574	-15.800495	-905.068651	
0.25000	-5.896266	-36.834545	-1.299275
-461.572730	-16.924285	-911.848869	
0.50000	-5.896266	-36.257138	-1.299275
-463.065973	-18.373455	-918.619896	
0.75000	-5.896266	-35.720620	-1.299275
-464.628034	-20.111607	-925.642704	
1.00000	-5.896266	-35.247148	-1.299275
-466.257926	-22.017095	-932.895168	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.186481	257.468570	3.230056
203.755114	21.309198	2252.416	
0.25000	8.186481	262.465539	3.230056
191.750256	21.980522	2077.597	
0.50000	8.186481	267.963877	3.230056
180.783056	23.408294	1905.148	
0.75000	8.186481	273.743901	3.230056
170.814067	25.754620	1745.587	
1.00000	8.186481	279.581362	3.230056
161.815229	28.741242	1593.012	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.688703	-116.561348	-4.110492
-708.895611	-24.046257	-1602.702	
0.25000	-7.688703	-111.196877	-4.110492
-719.651628	-25.530736	-1614.264	
0.50000	-7.688703	-105.969089	-4.110492
-730.933702	-27.456161	-1625.839	
0.75000	-7.688703	-101.112279	-4.110492
-742.732496	-29.833174	-1637.357	
1.00000	-7.688703	-96.822415	-4.110492
-755.046044	-32.670873	-1651.347	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1227

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.362678	380.422003	6.349719
146.338871	37.099572	3200.039	
0.25000	8.362678	406.183216	6.349719
150.861689	35.395161	3032.059	
0.50000	8.362678	434.422792	6.349719
155.581160	35.025546	2830.108	
0.75000	8.362678	464.102092	6.349719
160.485643	35.919357	2600.848	
1.00000	8.362678	494.076859	6.349719
165.567269	37.667935	2341.761	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.251929	-272.414143	-4.116448
-599.025313	-34.126812	-2149.790	
0.25000	-11.251929	-244.875319	-4.116448
-594.697486	-37.534899	-2161.028	
0.50000	-11.251929	-218.043131	-4.116448
-590.758765	-41.835058	-2172.167	
0.75000	-11.251929	-193.119457	-4.116448
-587.201790	-46.660141	-2183.351	
1.00000	-11.251929	-170.994109	-4.116448
-584.016593	-51.796176	-2194.125	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.203684	411.290156	9.007196
397.327293	39.928721	3514.494	
0.25000	9.203684	432.464577	9.007196
400.369164	38.130890	3301.140	
0.50000	9.203684	455.677379	9.007196
403.538975	38.130803	3064.089	
0.75000	9.203684	480.073617	9.007196
406.828402	39.406986	2815.814	
1.00000	9.203684	504.712708	9.007196
410.230111	41.523646	2552.297	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.909850	-258.416102	-4.349103
-556.996946	-41.588395	-2427.869	
0.25000	-14.909850	-235.779201	-4.349103
-554.186195	-47.703135	-2450.404	
0.50000	-14.909850	-213.723111	-4.349103
-551.632270	-55.297833	-2469.550	
0.75000	-14.909850	-193.235815	-4.349103
-549.329147	-63.513319	-2500.761	
1.00000	-14.909850	-175.049895	-4.349103
-547.271573	-72.077758	-2520.167	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.430123	348.971503	6.207134
691.252793	45.824889	3562.757	
0.25000	10.430123	377.327788	6.207134
703.143960	44.576319	3400.488	
0.50000	10.430123	412.512012	6.207134
714.752801	45.022651	3237.137	
0.75000	10.430123	450.199528	6.207134
726.167564	47.546074	3074.730	
1.00000	10.430123	489.256549	6.207134
741.621531	51.280010	2899.239	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.710604	-321.873276	-5.735598
-648.758859	-24.948539	-1522.154	
0.25000	-9.710604	-279.149398	-5.735598
-663.573541	-30.717452	-1611.325	
0.50000	-9.710604	-238.400299	-5.735598
-677.998805	-37.031407	-1700.502	
0.75000	-9.710604	-201.034889	-5.735598
-692.155536	-43.404907	-1789.678	
1.00000	-9.710604	-168.116904	-5.735598
-711.421559	-49.826791	-1878.855	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1228

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.532017	412.375629	9.007196
769.907015	44.758316	3523.659	
0.25000	15.532017	433.326868	9.007196
778.223490	44.827134	3315.842	
0.50000	15.532017	456.305934	9.007196
786.936551	47.894075	3080.270	
0.75000	15.532017	481.265584	9.007196
796.041441	52.294344	2829.988	
1.00000	15.532017	507.192977	9.007196
805.540250	57.555471	2561.991	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.909850	-285.249589	-6.909592
-708.895611	-41.588395	-2427.869	
0.25000	-14.909850	-256.961390	-6.909592
-719.651628	-47.703135	-2450.404	
0.50000	-14.909850	-229.866634	-6.909592
-730.933702	-55.297833	-2491.800	
0.75000	-14.909850	-204.699031	-6.909592
-742.732496	-63.513319	-2513.265	
1.00000	-14.909850	-182.363312	-6.909592
-755.046044	-72.077758	-2534.339	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.532017	412.375629	9.007196
769.907015	45.824889	3562.757	
0.25000	15.532017	433.326868	9.007196
778.223490	44.827134	3400.488	
0.50000	15.532017	456.305934	9.007196
786.936551	47.894075	3237.137	
0.75000	15.532017	481.265584	9.007196
796.041441	52.294344	3074.730	
1.00000	15.532017	507.192977	9.007196
805.540250	57.555471	2899.239	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.909850	-321.873276	-6.909592
-708.895611	-41.588395	-2427.869	
0.25000	-14.909850	-279.149398	-6.909592
-719.651628	-47.703135	-2450.404	
0.50000	-14.909850	-238.400299	-6.909592
-730.933702	-55.297833	-2491.800	
0.75000	-14.909850	-204.699031	-6.909592
-742.732496	-63.513319	-2513.265	
1.00000	-14.909850	-182.363312	-6.909592
-755.046044	-72.077758	-2534.339	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.532017	412.375629	9.007196
769.907015	45.824889	3562.757	
0.25000	15.532017	433.326868	9.007196
778.223490	44.827134	3400.488	
0.50000	15.532017	456.305934	9.007196
786.936551	47.894075	3237.137	
0.75000	15.532017	481.265584	9.007196
796.041441	52.294344	3074.730	
1.00000	15.532017	507.192977	9.007196
805.540250	57.555471	2899.239	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.909850	-321.873276	-6.909592
-708.895611	-41.588395	-2427.869	
0.25000	-14.909850	-279.149398	-6.909592
-719.651628	-47.703135	-2450.404	
0.50000	-14.909850	-238.400299	-6.909592
-730.933702	-55.297833	-2491.800	
0.75000	-14.909850	-204.699031	-6.909592
-742.732496	-63.513319	-2513.265	
1.00000	-14.909850	-182.363312	-6.909592
-755.046044	-72.077758	-2534.339	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1229

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 93 ========== LENGTH = 4.958017

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.174662	107.553280	0.929814
494.531227	19.267957	782.536702	
0.25000	6.174662	108.102094	0.929814
495.774412	21.605187	676.095981	
0.50000	6.174662	108.709472	0.929814
497.007545	24.243510	576.074888	
0.75000	6.174662	109.357088	0.929814
498.239171	27.352419	485.501121	
1.00000	6.174662	110.026087	0.929814
499.909462	30.911941	406.426920	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.138491	-26.673085	-3.654965
-71.065457	-7.311514	-713.416376	
0.25000	-3.138491	-26.012986	-3.654965
-69.401629	-7.251834	-744.938223	
0.50000	-3.138491	-25.386850	-3.654965
-68.180179	-7.218430	-776.463044	
0.75000	-3.138491	-24.812180	-3.654965
-66.976123	-7.204767	-807.988061	
1.00000	-3.138491	-24.305647	-3.654965
-65.781567	-7.520648	-839.513078	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.468128	239.602555	3.810250
814.447135	27.876211	1723.066	
0.25000	7.468128	245.069938	3.810250
825.634153	28.126047	1518.206	
0.50000	7.468128	251.162975	3.810250
836.732031	28.742146	1332.223	
0.75000	7.468128	257.638069	3.810250
847.817060	31.590276	1177.588	
1.00000	7.468128	264.324407	3.810250
862.845970	35.507426	1047.435	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.482767	-85.849574	-3.911305
-181.499814	-31.480797	-1272.858	
0.25000	-8.482767	-79.252176	-3.911305
-166.533454	-34.889933	-1333.143	
0.50000	-8.482767	-72.992469	-3.911305
-155.549874	-38.318141	-1393.490	
0.75000	-8.482767	-67.246998	-3.911305
-144.723917	-41.760315	-1453.839	
1.00000	-8.482767	-62.180111	-3.911305
-133.984314	-45.216380	-1514.188	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.235581	387.537233	5.382988

```
664.589463    44.233615    2653.328
 0.25000      9.235581   419.402406      5.382988
661.673008    42.717965    2462.596
 0.50000      9.235581   454.676055      5.382988
659.371202    42.033905    2461.291
 0.75000      9.235581   492.270185      5.382988
657.746862    43.462047    2014.285
 1.00000      9.235581   530.954651      5.382988
655.792154    45.975116    1755.910

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.655944 -263.890274    -3.958218
-95.264531   -36.567033   -1707.686
 0.25000   -8.655944 -225.719645    -3.958218
-95.264531   -40.777651   -1791.490
 0.50000   -8.655944 -189.404603    -3.958218
-95.264531   -45.062203   -1875.443
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1230

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000   -8.655944 -156.066573    -3.958218
-95.264531   -49.421578   -1959.434
 1.00000   -8.655944 -126.548972    -3.958218
-95.264531   -53.806575   -2043.426

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.353036   412.401266    5.121204
595.222307   48.005142    2888.351
 0.25000   10.353036   438.606986    5.121204
594.538039   48.075844    2639.369
 0.50000   10.353036   467.613823    5.121204
593.870177   49.128405    2386.800
 0.75000   10.353036   498.529423    5.121204
593.870177   51.954561    2141.231
 1.00000   10.353036   530.342194    5.121204
593.870177   55.667080    1890.236

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.368006 -238.495693    -4.615243
-359.913927   -38.227629   -1878.901
 0.25000   -8.368006 -207.105423    -4.615243
-359.913927   -42.450992   -1971.032
 0.50000   -8.368006 -177.241345    -4.615243
-359.913927   -46.740635   -2063.303
 0.75000   -8.368006 -149.825859    -4.615243
-359.913927   -51.079690   -2155.606
 1.00000   -8.368006 -125.552283    -4.615243
-359.913927   -55.450152   -2247.908

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.107943   180.890127    3.669444
263.182509   12.382987    1212.398
 0.25000    2.107943   198.293671    3.669444
284.038712    9.497581    1142.222
 0.50000    2.107943   217.555656    3.669444
304.745901    6.172797    1061.280
 0.75000    2.107943   238.089754    3.669444
325.436393    4.352404    973.603990
 1.00000    2.107943   259.263641    3.669444
353.437622    3.000900   871.275520

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.011199 -139.011075    -0.378459
-159.101266   -26.545589   -649.308723
 0.25000   -6.011199 -118.118654    -0.378459
-131.276058   -30.850067   -683.367618
 0.50000   -6.011199   -98.273838    -0.378459
-110.901796   -35.154545   -717.534842
 0.75000   -6.011199   -80.058024    -0.378459
-90.836946   -39.458204   -751.715347
 1.00000   -6.011199   -63.961642    -0.378459
-70.942104   -43.763502   -785.895852

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.872118   352.168426    5.384673
178.223740   36.614473    2362.371
 0.25000    5.872118   386.963157    5.384673
178.223740   33.256783    2231.927
 0.50000    5.872118   425.476371    5.384673
178.223740   30.901511    2077.987
 0.75000    5.872118   466.524096    5.384673
178.223740   30.561349    1907.155
 1.00000    5.872118   508.763218    5.384673
178.223740   31.064419    1704.862

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.890476 -276.471536    -1.818786
-158.729615   -35.136582   -1252.397
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1231

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   -6.890476 -234.793364    -1.818786
-158.729615   -40.299735   -1317.830
 0.50000   -6.890476 -195.141658    -1.818786
-158.729615   -44.535683   -1383.452
 0.75000   -6.890476 -158.741193    -1.818786
-158.729615   -50.817345   -1449.116
 1.00000   -6.890476 -126.512413    -1.818786
-158.729615   -56.134722   -1514.780

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.272629   405.816793    5.932788
535.095285   44.212462    2801.800
 0.25000    8.272629   437.483243    5.932788
535.188447   42.523339    2594.160
 0.50000    8.272629   472.531823    5.932788
535.356547   41.829220    2374.801
 0.75000    8.272629   509.887467    5.932788
535.565355   42.752370    2150.600
 1.00000    8.272629   548.327890    5.932788
535.625522   44.487127    1905.862

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -7.551951 -268.224878    -2.896261
-187.297175   -42.206939   -1693.317
 0.25000   -7.551951 -230.294894    -2.896261
-187.297175   -48.174408   -1778.613
 0.50000   -7.551951 -194.209357    -2.896261
-187.297175   -54.217180   -1864.075
 0.75000   -7.551951 -161.083075    -2.896261
-187.297175   -60.293713   -1949.577
 1.00000   -7.551951 -131.753428    -2.896261
-187.297175   -66.408783   -2035.078

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.550643   412.199294    5.468291
474.005755   39.880253    2899.362
 0.25000    7.550643   438.876814    5.468291
474.005755   38.912375    2650.664
 0.50000    7.550643   468.405337    5.468291
474.005755   38.722884    2400.400
 0.75000    7.550643   499.877100    5.468291
474.005755   39.896837    2154.802
 1.00000    7.550643   532.262320    5.468291
474.005755   41.753429    1898.370

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -7.925590 -239.277595    -2.957457
-450.411023   -43.497417   -1871.667
 0.25000   -7.925590 -207.322462    -2.957457
-450.411023   -49.107616   -1964.031
 0.50000   -7.925590 -176.921044    -2.957457
-450.411023   -54.777182   -2056.531
 0.75000   -7.925590 -149.012389    -2.957457
-450.411023   -60.483812   -2149.063
 1.00000   -7.925590 -124.302213    -2.957457
-450.411023   -66.217471   -2241.595

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.095559   111.471786    0.805228
62.667073    4.104556   816.679123
 0.25000    2.095559   112.122880    0.805228
60.624743    4.136253   705.614089
 0.50000    2.095559   112.846968    0.805228
59.116904    4.387039   601.886000
 0.75000    2.095559   113.618390    0.805228
57.627623    4.891227   508.960350
 1.00000    2.095559   114.409111    0.805228
56.147825    5.808716   428.866095
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1232

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.211172  -27.280960    -1.738414
-476.273618   -13.505690   -708.064431
 0.25000   -3.211172  -26.500721    -1.738414
-477.789015   -14.435224   -739.577606
 0.50000   -3.211172  -25.756175    -1.738414
-479.288992   -15.376499   -771.092586
 0.75000   -3.211172  -25.072600    -1.738414
-480.785424   -16.322920   -802.608939
 1.00000   -3.211172  -24.470056    -1.738414
-482.825044   -17.274052   -834.125292

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.897735   244.308895    1.986024
190.785012   22.139455    1759.402
 0.25000    5.897735   251.277244    1.986024
171.853309   23.641208    1558.501
 0.50000    5.897735   259.021652    1.986024
157.870159   26.278637    1374.584
 0.75000    5.897735   267.273185    1.986024
144.057078   29.397454    1218.550
 1.00000    5.897735   275.735425    1.986024
130.330368   33.000608    1083.418

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.830993   -95.194449    -3.735353
-761.234427   -22.950214   -1245.684
 0.25000   -4.830993   -86.844414    -3.735353
-775.274195   -24.904277   -1304.610
 0.50000   -4.830993   -78.879630    -3.735353
-789.168864   -26.863624   -1363.587
 0.75000   -4.830993   -71.566725    -3.735353
-803.029486   -28.831615   -1422.577
 1.00000   -4.830993   -65.117683    -3.735353
-821.928589   -30.802608   -1481.567

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.754566   388.623717    4.372548
108.185520   33.638347    2665.758
 0.25000    6.754566   420.778408    4.372548
108.853505   31.423070    2475.272
 0.50000    6.754566   456.354612    4.372548
109.592327   30.251666    2261.657
 0.75000    6.754566   494.278739    4.372548
110.371453   30.225105    2028.569
 1.00000    6.754566   533.304530    4.372548
111.182345   31.300900    1770.478

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.820661 -265.447328    -2.912844
-603.212338   -34.740302   -1677.728
 0.25000   -6.820661 -226.939706    -2.912844
-603.212338   -38.761796   -1760.120
 0.50000   -6.820661 -190.304775    -2.912844
-603.212338   -42.866374   -1842.662
 0.75000   -6.820661 -156.674445    -2.912844
-603.212338   -47.009909   -1925.244
 1.00000   -6.820661 -126.898649    -2.912844
-603.212338   -51.199199   -2007.825

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.016023   412.348179    5.954838
387.601148   35.309403    2888.555
 0.25000    7.016023   438.675160    5.954838
387.601146   33.223090    2638.619
 0.50000    7.016023   467.815375    5.954838
387.601146   32.035220    2386.555
 0.75000    7.016023   498.873559    5.954838
387.601146   32.581279    2140.337
 1.00000    7.016023   530.832872    5.954838
387.601146   34.114312    1887.642
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1233

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.620010 -238.466249    -2.943236
-545.861397   -48.790272   -1868.970
 0.25000   -9.620010 -206.931158    -2.943236
-545.861397   -55.004936   -1960.817
 0.50000   -9.620010 -176.929394    -2.943236
-545.861397   -61.278471   -2052.802
 0.75000   -9.620010 -149.387687    -2.943236
-545.861397   -67.592137   -2144.820
 1.00000   -9.620010 -125.002434    -2.943236
-545.861397   -73.934853   -2236.838

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   12.305752  153.508356    1.289908
604.102429   25.354231   765.291994
 0.25000   12.305752  153.975294    1.289908
605.222641   30.159825   627.889290
 0.50000   12.305752  154.483753    1.289908
606.418501   35.266502   518.947658
 0.75000   12.305752  155.017743    1.289908
607.690378   40.629604   440.976476
 1.00000   12.305752  155.557540    1.289908
609.038229   46.201595   382.891874

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.796903  -35.041532    -5.144443
-143.585156   -12.782947   -941.254420
 0.25000   -3.796903  -34.582059    -5.144443
-142.394965   -13.274295   -942.103481
 0.50000   -3.796903  -34.136568    -5.144443
-141.286519   -13.924139   -976.984701
 0.75000   -3.796903  -33.722703    -5.144443
-140.258116   -14.684812   -1049.088
 1.00000   -3.796903  -33.356332    -5.144443
-139.311654   -15.631280   -1143.977

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   13.342258  313.198604    6.053998
949.370486   31.727707    1570.500
 0.25000   13.342258  317.081280    6.053998
957.371811   34.720216   1313.999
 0.50000   13.342258  321.309444    6.053998
965.911135   38.060178    1112.412
 0.75000   13.342258  325.748306    6.053998
974.992272   42.533049   980.434795
 1.00000   13.342258  330.237189    6.053998
984.611281   48.139012   891.102167

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -11.665835  -96.093908    -5.315271
-278.753163   -46.570446   -1671.263
 0.25000  -11.665835   -92.272718    -5.315271
-270.273435   -53.910536   -1679.206
 0.50000  -11.665835   -88.567769    -5.315271
-262.371265   -59.457994   -1751.527
 0.75000  -11.665835   -85.125937    -5.315271
-255.044265   -65.359875   -1895.324
 1.00000  -11.665835   -82.078758    -5.315271
-248.297732   -71.879659   -2081.458

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   14.345950  468.518895    8.247167
814.061205   46.768206    2362.009
 0.25000   14.345950  494.664871    8.247167
808.970030   48.108924    2076.297
 0.50000   14.345950  523.159117    8.247167
804.210998   50.102027    1827.065
 0.75000   14.345950  553.066029    8.247167
799.772448   53.459373    1630.362
 1.00000   14.345950  583.302779    8.247167
795.648820   57.927036    1454.561
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1234

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -12.092429  -242.711443    -5.575079
-208.626320   -57.403401   -2261.849
 0.25000  -12.092429  -216.945381    -5.575079
-212.551732   -63.908163   -2079.210
 0.50000  -12.092429  -191.952976    -5.575079
-216.795148   -70.668365   -2385.194
 0.75000  -12.092429  -168.742685    -5.575079
-221.362309   -77.788810   -2595.457
 1.00000  -12.092429  -148.205019    -5.575079
-226.264431   -85.483524   -2866.852

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   15.505443  501.581870    7.698568
750.665166   52.426971    2553.837
 0.25000   15.505443  523.099963    7.698568
747.112509   54.865843    2217.756
 0.50000   15.505443  546.549468    7.698568
743.788562   57.943111    1931.776
 0.75000   15.505443  571.161546    7.698568
740.686739   62.155329    1721.960
 1.00000   15.505443  596.045089    7.698568
737.800950   67.318120    1551.186

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -11.629552  -228.173448    -6.025058
-474.053383   -57.057964   -2460.042
 0.25000  -11.629552  -206.969303    -6.025058
-476.693011   -63.167024   -2477.274
 0.50000  -11.629552  -186.401870    -6.025058
-479.552856   -69.498951   -2588.964
 0.75000  -11.629552  -167.301027    -6.025058
-482.633938   -76.081737   -2814.327
 1.00000  -11.629552  -150.398673    -6.025058
-485.960539   -83.281138   -3105.760

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.237686   200.525845    6.064503
272.422415   11.202411    1005.153
 0.25000    2.237686   215.168371    6.064503
292.722946    8.825914   903.488540
 0.50000    2.237686   231.111085    6.064503
314.393369    6.605480   811.460369
 0.75000    2.237686   247.849882    6.064503
337.421181    5.180340   740.020151
 1.00000    2.237686   264.775143    6.064503
361.797139    4.612817   672.917980

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.366890  -125.636074    -0.623795
-177.881008   -38.835380   -840.296248
 0.25000   -9.366890  -111.222584    -0.623795
-156.559141   -44.615583   -850.896536
 0.50000   -9.366890   -97.247168    -0.623795
-135.612684   -50.512209   -896.698134
 0.75000   -9.366890   -84.263887    -0.623795
-118.140917   -56.703061   -984.546122
 1.00000   -9.366890   -72.769715    -0.623795
-101.166190   -63.443692   -1096.512

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.479122   392.495613    8.135142
207.152972   35.882949    1981.691
 0.25000    6.479122   421.742550    8.135142
207.152972   33.709597    1785.300
 0.50000    6.479122   453.607435    8.135142
207.152972   32.138218    1604.924
 0.75000    6.479122   487.052205    8.135142
207.152972   31.785110    1463.837
 1.00000    6.479122   520.873376    8.135142
207.152972   32.450299    1330.277
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1235

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.866876  -249.535552    -2.216470
-185.611602   -49.571005   -1637.731
 0.25000   -9.866876  -220.722911    -2.216470
-185.611602   -56.420858   -1657.579
 0.50000   -9.866876  -192.775635    -2.216470
-185.611602   -63.457054   -1744.201
 0.75000   -9.866876  -166.821209    -2.216470
-185.611602   -70.793930   -1913.897
 1.00000   -9.866876  -143.848536    -2.216470
-185.611602   -78.679591   -2131.220

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.759871   477.306087    9.040520
631.265548   45.317798    2428.682
 0.25000   10.759871   504.019285    9.040520
632.028771   45.408134    2142.082
 0.50000   10.759871   533.119040    9.040520
632.789519   46.091820    1890.615
 0.75000   10.759871   563.661608    9.040520
633.538712   47.802548    1699.709
 1.00000   10.759871   594.547934    9.040520
634.267349   50.400730    1533.655

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -11.925953  -250.353277    -3.762155
-267.695084   -63.704092   -2319.715
 0.25000  -11.925953   -224.041132    -3.762155
-267.695084   -71.933438   -2358.295
 0.50000  -11.925953   -198.519419    -3.762155
-267.695084   -80.370194   -2471.685
 0.75000  -11.925953   -174.817547    -3.762155
-267.695084   -89.084060   -2681.870
 1.00000  -11.925953   -153.837161    -3.762155
-267.695084   -98.245748   -2948.316

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.457685   499.568734    8.214410
590.916939   42.378079    2562.136
 0.25000   10.457685   522.153015    8.214410
590.916939   43.049434    2232.798
 0.50000   10.457685   546.758847    8.214410
590.916939   44.219089    1947.110
 0.75000   10.457685   572.584655    8.214410
590.916939   46.254990    1733.401
 1.00000   10.457685   598.701117    8.214410
590.916939   49.125634    1555.864

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -12.346822  -229.524108    -3.996260
-565.351939   -63.684654   -2534.515
 0.25000  -12.346822  -207.275196    -3.996260
-565.351939   -71.059071   -2567.829
 0.50000  -12.346822  -185.694513    -3.996260
-565.351939   -78.615841   -2683.263
 0.75000  -12.346822  -165.625894    -3.996260
-565.351939   -86.408106   -2906.039
 1.00000  -12.346822  -147.913364    -3.996260
-565.351939   -94.648191   -3191.160

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.577075   156.345266    1.304598
117.186781    4.986380   792.751994
 0.25000    2.577075   156.911402    1.304598
115.693061    4.838451   653.384401
 0.50000    2.577075   157.530796    1.304598
114.298975    4.813336   538.325992
 0.75000    2.577075   158.181030    1.304598
113.004630    5.080918   455.718971
 1.00000    2.577075   158.838242    1.304598
111.813357    5.855757   394.663286
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1236

 F R A M E    E L E M E N T    I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.929954  -35.301556    -1.716004
-569.017607   -22.011877   -933.630549
 0.25000   -5.929954  -34.740833    -1.716004
-570.389031   -22.176385   -935.062396
 0.50000   -5.929954  -34.196991    -1.716004
-571.855328   -22.432715   -965.394147
 0.75000   -5.929954  -33.691988    -1.716004
-573.417323   -22.837729   -1035.685
 1.00000   -5.929954  -33.247113    -1.716004
-575.074759   -23.589106   -1129.910

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.111037   312.742585    2.842707
253.193616   26.822353    1596.478
 0.25000    8.111037   317.873379    2.842707
241.883496   28.081910    1345.444
 0.50000    8.111037   323.481720    2.842707
231.321517   30.029146    1140.586
 0.75000    8.111037   329.369128    2.842707
221.520753   32.353874    1004.305
 1.00000    8.111037   335.319580    2.842707
212.482780   35.289137   910.275006

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -7.610767  -102.077524    -3.752017
-865.762807   -32.202643   -1652.308
 0.25000   -7.610767   -97.002160    -3.752017
-876.123818   -33.410420   -1662.523
 0.50000   -7.610767   -92.078714    -3.752017
-887.205526   -34.768287   -1726.643
 0.75000   -7.610767   -87.506935    -3.752017
-899.004961   -36.361396   -1863.102
 1.00000   -7.610767   -83.476205    -3.752017
-911.531557   -38.364707   -2048.724

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.049000   461.275028    6.599121
198.360198   34.471285    2344.651
 0.25000    8.049000   487.736903    6.599121
202.679916   32.949902    2065.988
```

```
 0.50000      8.049000    516.556327      6.599121
207.250076     32.110870     1816.906
 0.75000      8.049000    546.809256      6.599121
212.060108     32.130391     1619.757
 1.00000      8.049000    577.394868      6.599121
217.098558     33.299858     1443.468

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -11.079521  -242.057416   -3.369008
-731.194440   -50.976626    -2194.956
 0.25000   -11.079521  -215.999884   -3.369008
-727.421741   -55.244648    -2211.834
 0.50000   -11.079521  -190.725204   -3.369008
-723.919208   -59.788973    -2309.053
 0.75000   -11.079521  -167.252833   -3.369008
-720.691133   -64.680295    -2511.608
 1.00000   -11.079521  -146.470083   -3.369008
-717.746226   -70.192085    -2775.437

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    8.944742    500.522743    8.825012
506.506645    36.950512    2553.536
 0.25000    8.944742    522.272924    8.825012
509.406213    36.024593    2218.833
 0.50000    8.944742    545.962211    8.825012
512.466413    35.722712    1931.488
 0.75000    8.944742    570.829821    8.825012
515.679076    36.494894    1719.415
 1.00000    8.944742    595.970857    8.825012
519.035183    38.443566    1546.377
  Program    SAP2000    Nonlinear    Version    7.42
              File:하행S11~S1503.OUT

                         Page
<          MOVING          LOAD          >
                          1237

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -14.887986  -227.823764   -3.634935
-692.552125   -70.514063    -2520.567
 0.25000   -14.887986  -206.404523   -3.634935
-690.152270   -77.852304    -2545.971
 0.50000   -14.887986  -185.628750   -3.634935
-687.926350   -85.470705    -2658.690
 0.75000   -14.887986  -166.334469   -3.634935
-685.880275   -93.472490    -2881.078
 1.00000   -14.887986  -149.252092   -3.634935
-684.446422  -102.137400    -3167.318

 COMB      DB ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.353036   412.401266    5.954838
814.447135    48.005142    2899.362
 0.25000   10.353036   438.876814    5.954838
825.634153    48.075844    2650.664
 0.50000   10.353036   472.531823    5.954838
836.732031    49.128405    2400.400
 0.75000   10.353036   509.887467    5.954838
847.817060    51.354561    2154.802
 1.00000   10.353036   548.327890    5.954838
862.845970    55.667080    1905.862

 COMB      DB ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.620010  -276.471536   -4.615243
-761.234427   -48.790272    -1878.901
 0.25000   -9.620010  -234.793364   -4.615243
-775.274195   -55.004936    -1971.032
 0.50000   -9.620010  -195.141658   -4.615243
-789.168864   -61.278471    -2063.303
 0.75000   -9.620010  -161.083076   -4.615243
-803.029486   -67.592137    -2155.606
 1.00000   -9.620010  -131.753428   -4.615243
-821.928589   -73.934853    -2247.908

 COMB      DL ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   15.505443   501.581870    9.040520
949.370486    52.426971    2562.136
 0.25000   15.505443   523.099963    9.040520
957.371811    54.865843    2232.798
 0.50000   15.505443   546.758847    9.040520
965.911135    57.943111    1947.110
 0.75000   15.505443   572.584655    9.040520
974.992272    62.155329    1733.401
 1.00000   15.505443   598.701117    9.040520
984.611281    67.318120    1555.864

 COMB      DL ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -14.887986  -250.353277   -6.025058
-865.762807   -70.514063    -2534.515
 0.25000   -14.887986  -224.041192   -6.025058
-876.123818   -77.852304    -2567.829
 0.50000   -14.887986  -198.519419   -6.025058
-887.205526   -85.470705    -2683.263
 0.75000   -14.887986  -174.817547   -6.025058
-899.004961   -93.472490    -2906.039
 1.00000   -14.887986  -153.837161   -6.025058
-911.531557  -102.137400    -3191.160

 COMB      CAR ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   15.505443   501.581870    9.040520
949.370486    52.426971    2890.362
 0.25000   15.505443   523.099963    9.040520
957.371811    54.865843    2650.664
 0.50000   15.505443   546.758847    9.040520
965.911135    57.943111    2400.400
 0.75000   15.505443   572.584655    9.040520
974.992272    62.155329    2154.802
 1.00000   15.505443   598.701117    9.040520
984.611281    67.318120    1905.862
  Program    SAP2000    Nonlinear    Version    7.42
              File:하행S11~S1503.OUT

                         Page
<          MOVING          LOAD          >
                          1238

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -14.887986  -276.471536   -6.025058
-865.762807   -70.514063    -2534.515
 0.25000   -14.887986  -234.793364   -6.025058
-876.123818   -77.852304    -2567.829
 0.50000   -14.887986  -198.519419   -6.025058
-887.205526   -85.470705    -2683.263
 0.75000   -14.887986  -174.817547   -6.025058
-899.004961   -93.472490    -2906.039
 1.00000   -14.887986  -153.837161   -6.025058
-911.531557  -102.137400    -3191.160

 COMB    DESIGN ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   15.505443   501.581870    9.040520
949.370486    52.426971    2899.362
 0.25000   15.505443   523.099963    9.040520
957.371811    54.865843    2650.664
 0.50000   15.505443   546.758847    9.040520
965.911135    57.943111    2400.400
 0.75000   15.505443   572.584655    9.040520
974.992272    62.155329    2154.802
 1.00000   15.505443   598.701117    9.040520
984.611281    67.318120    1905.862

 COMB    DESIGN ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -14.887986  -276.471536   -6.025058
-865.762807   -70.514063    -2534.515
 0.25000   -14.887986  -234.793364   -6.025058
-876.123818   -77.852304    -2567.829
 0.50000   -14.887986  -198.519419   -6.025058
-887.205526   -85.470705    -2683.263
 0.75000   -14.887986  -174.817547   -6.025058
-899.004961   -93.472490    -2906.039
 1.00000   -14.887986  -153.837161   -6.025058
-911.531557  -102.137400    -3191.160

 ELEM      94 ================== LENGTH
=     4.957604

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    6.326805   116.112732    3.687304
499.014990    29.237061    404.889001
 0.25000    6.326805   116.687640    3.687304
500.264804    24.829721    298.257986
 0.50000    6.326805   117.318844    3.687304
501.489317    20.504317    202.772854
 0.75000    6.326805   117.988217    3.687304
502.706112    16.372680    170.389641
 1.00000    6.326805   118.677779    3.687304
504.359045    12.610572    194.738437

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.038952   -25.659620   -1.240384
-186.328426    -6.291513   -839.046336
 0.25000   -3.038952   -25.017262   -1.240384
-186.699564    -7.635599   -860.326786
 0.50000   -3.038952   -24.406847   -1.240384
-185.467797    -9.137629   -881.630601
 0.75000   -3.038952   -23.850433   -1.240384
-184.269282   -10.732310   -903.392883
 1.00000   -3.038952   -23.444644   -1.240384
-183.237785   -12.393677   -925.406034

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.526300   277.350180    4.417444
826.714712    33.133280    1045.074
 0.25000    7.526300   283.100529    4.417444
837.925349    27.920530    801.705177
 0.50000    7.526300   289.414013    4.417444
848.961853    22.872922    581.519851
  Program    SAP2000    Nonlinear    Version    7.42
              File:하행S11~S1503.OUT

                         Page
<          MOVING          LOAD          >
                          1239

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.75000    7.526300   296.108721    4.417444
859.901511    20.859088    445.863845
 1.00000    7.526300   303.003178    4.417444
874.761917    24.421248    415.640142

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -8.507674   -66.441942   -9.856627
-333.316075   -44.322829    -1513.514
 0.25000   -8.507674   -60.021172   -9.856627
-318.674896   -36.161844    -1572.882
 0.50000   -8.507674   -53.915188   -9.856627
-307.607767   -28.990648    -1632.694
 0.75000   -8.507674   -48.349306   -9.856627
-296.837970   -25.500407    -1692.760
 1.00000   -8.507674   -44.299243   -9.856627
-287.567995   -24.714677    -1753.606

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.078860   462.060377    6.036325
672.414763    42.599311    1754.046
 0.25000    9.078860   495.568806    6.036325
670.372258    35.851943    1472.430
 0.50000    9.078860   532.353484    6.036325
668.467854    29.487412    1268.320
 0.75000    9.078860   571.334027    6.036325
666.456209    24.642332    890.840680
 1.00000    9.078860   611.363163    6.036325
666.082813    23.204960    679.824746

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -8.367891  -199.004268   -6.488090
-232.806941   -51.931845    -2042.920
 0.25000   -8.367891  -161.819645   -6.488090
-232.806941   -47.256301    -2140.724
 0.50000   -8.367891  -126.215807   -6.488090
-232.806941   -42.801824    -2239.632
 0.75000   -8.367891   -93.755395   -6.488090
-232.806941   -40.643270    -2339.562
 1.00000   -8.367891   -70.629962   -6.488090
-232.806941   -40.146407    -2441.046

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.289916   492.544767    9.634879
651.395994    52.831279    1889.497
 0.25000   10.289916   520.103656    9.634879
650.954465    41.899136    1541.943
 0.50000   10.289916   550.348387    9.634879
650.954465    31.551888    1195.021
 0.75000   10.289916   582.402706    9.634879
650.954465    23.843341    892.269695
 1.00000   10.289916   615.319651    9.634879
650.954465    22.397645    711.903507

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -8.124898  -179.354301   -6.138868
-479.417191   -53.277882    -2247.777
 0.25000   -8.124898  -148.776623   -6.138868
-479.417191   -48.665147    -2354.696
 0.50000   -8.124898  -119.499678   -6.138868
-479.417191   -44.377748    -2462.675
 0.75000   -8.124898   -92.805516   -6.138868
-479.417191   -42.423490    -2571.512
 1.00000   -8.124898   -73.784938   -6.138868
-479.417191   -42.846182    -2681.711

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    1.911414   222.934110    0.659262
270.978129     2.536368   870.641226
  Program    SAP2000    Nonlinear    Version    7.42
              File:하행S11~S1503.OUT

                         Page
<          MOVING          LOAD          >
                          1240

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.25000    1.911414   241.197006    0.659262
291.761801     2.014167   743.889333
 0.50000    1.911414   261.246619    0.659262
312.206181     2.629136   603.890995
 0.75000    1.911414   282.501468    0.659262
332.475854     3.577436   454.962075
 1.00000    1.911414   304.365142    0.659262
360.002549    13.411816   312.240728

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.158573   -99.704119   -9.467169
-168.626398   -43.703345   -785.771742
 0.25000   -6.158573   -79.362953   -9.467169
-141.545174   -34.320554   -834.819009
 0.50000   -6.158573   -59.966061   -9.467169
-121.136549   -25.487344   -884.541646
 0.75000   -6.158573   -42.284062   -9.467169
-101.257523   -19.762418   -934.804092
 1.00000   -6.158573   -29.524607   -9.467169
-84.133991   -16.297042   -985.742241

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    5.586797   434.967226    6.384431
193.343766    29.545483    1704.922
 0.25000    5.586797   471.553703    6.384431
193.343766    22.492560    1462.839
 0.50000    5.586797   511.714391    6.384431
193.343766    15.939413    1192.093
 0.75000    5.586797   554.273533    6.384431
193.343766    11.360145   899.540379
 1.00000    5.586797   597.978128    6.384431
193.343766    13.362464   613.369779

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.637167   -197.519517   -6.382534
-173.305836    -55.014012    -1514.879
 0.25000   -6.637167   -156.926876   -6.382534
-173.305836    -47.742129    -1609.650
 0.50000   -6.637167   -118.049543   -6.382534
-173.305836    -40.866726    -1705.790
 0.75000   -6.637167    -82.606664   -6.382534
-173.305836    -37.102783    -1803.024
 1.00000   -6.637167    -57.351183   -6.382534
-173.305836    -36.298529    -1901.625

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    8.098546   492.284086    7.558541
552.701228    41.560078    1904.796
 0.25000    8.098546   525.579623    7.558541
552.701225    33.171319    1586.464
 0.50000    8.098546   562.126059    7.558541
552.701225    25.329196    1255.524
 0.75000    8.098546   600.855741    7.558541
552.701225    19.180135   933.624186
 1.00000    8.098546   640.628176    7.558541
552.701225    19.180866   701.459932

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -7.380676   -197.885846   -9.196604
-290.494511    -65.364567    -2034.826
 0.25000   -7.380676   -160.934808   -9.196604
-290.494511    -54.478113    -2143.723
 0.50000   -7.380676   -125.561780   -9.196604
-290.494511    -45.207847    -2253.924
 0.75000   -7.380676    -93.306553   -9.196604
-290.494511    -42.918143    -2365.116
 1.00000   -7.380676    -70.319292   -9.196604
-290.494511    -42.997429    -2477.531
  Program    SAP2000    Nonlinear    Version    7.42
              File:하행S11~S1503.OUT

                         Page
<          MOVING          LOAD          >
                          1241

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.417683   493.626848    7.567651
560.137308    39.253502    1898.522
 0.25000    7.417683   521.678120    7.567651
560.137308    30.754248    1549.222
 0.50000    7.417683   552.469781    7.567651
560.137308    24.467015    1200.551
 0.75000    7.417683   585.100364    7.567651
560.137308    20.517587   876.132775
 1.00000    7.417683   618.609179    7.567651
560.137308    21.026989   704.043648

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -7.837131   -181.279906   -8.793404
-541.508890    -64.760619    -2241.716
 0.25000   -7.837131   -150.152462   -8.793404
-541.508890    -54.317123    -2350.454
 0.50000   -7.837131   -120.349364   -8.793404
-541.508890    -45.203661    -2460.382
 0.75000   -7.837131    -93.174902   -8.793404
-541.508890    -40.102102    -2571.141
 1.00000   -7.837131    -73.811234   -8.793404
-541.508890    -40.404913    -2682.911

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    1.969848   120.255182    1.046408
170.480646     3.546009   430.511442
 0.25000    1.969848   120.942682    1.046408
168.455533     5.590367   317.073318
 0.50000    1.969848   121.700309    1.046408
166.912726     7.693888   215.804550
 0.75000    1.969848   122.502628    1.046408
165.415061     9.921773   168.804698
 1.00000    1.969848   123.323947    1.046408
164.128387    12.437813   191.963012

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.298068   -25.962461   -2.559407
-484.421927   -16.407786   -834.651094
 0.25000   -3.298068   -25.200287   -2.559407
-485.964028   -13.602812   -855.290852
 0.50000   -3.298068   -24.466347   -2.559407
-487.482145   -10.825426   -876.129166
 0.75000   -3.298068   -23.797161   -2.559407
-488.988765    -8.103031   -897.006808
 1.00000   -3.298068   -23.333420   -2.559407
-491.037285    -5.469572   -918.286182

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    5.855208   283.730301    7.962657
324.001372    30.555230    1085.871
 0.25000    5.855208   291.084109    7.962657
305.211197    24.484047   841.950084

 0.50000    5.855208   299.183728    7.962657
290.888245    18.923532   618.702659
 0.75000    5.855208   307.761947    7.962657
276.985936    14.264534   462.930604
 1.00000    5.855208   316.547047    7.962657
265.045306    15.262375   419.127298

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.826094   -72.173455   -3.058890
-775.141515    -29.188521    -1482.360
 0.25000   -4.826094   -64.021791   -3.058890
-789.444308    -25.976646    -1540.098
 0.50000   -4.826094   -56.176315   -3.058890
-803.525011    -23.139581    -1598.507
 0.75000   -4.826094   -49.023161   -3.058890
-817.500172    -21.314207    -1657.161
 1.00000   -4.826094   -44.046959   -3.058890
-836.502851    -21.311305    -1716.270
  Program    SAP2000    Nonlinear    Version    7.42
              File:하행S11~S1503.OUT

                         Page
<          MOVING          LOAD          >
                          1242

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    6.406732   463.560257    6.087416
231.838263    27.629217    1772.446
 0.25000    6.406732   497.362399    6.087416
231.968428    24.007154    1488.530
 0.50000    6.406732   534.463650    6.087416
232.087504    20.827885    1182.294
 0.75000    6.406732   573.781735    6.087416
232.175111    18.392061   890.625181
 1.00000    6.406732   614.158659    6.087416
232.256619    19.048758   675.040355

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.617856  -199.316140   -3.720784
-614.797505    -49.119206    -2008.517
 0.25000   -6.617856  -161.802552   -3.720784
-614.797505    -44.811856    -2104.325
 0.50000   -6.617856  -125.892585   -3.720784
-614.797505    -40.648556    -2201.404
 0.75000   -6.617856    -93.157188   -3.720784
-614.797505    -37.080119    -2299.477
 1.00000   -6.617856    -69.806843   -3.720784
-614.797505    -34.535471    -2398.765

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    6.728256   491.941826    6.008271
496.895244    30.081795    1888.485
 0.25000    6.728256   519.624270    6.008271
496.895244    25.973171    1540.765
 0.50000    6.728256   550.010799    6.008271
496.895244    22.313477    1193.455
 0.75000    6.728256   582.212151    6.008271
496.895244    20.282653   882.309980
 1.00000    6.728256   615.280237    6.008271
496.895244    23.377413    706.760016

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.552320   -179.574013   -10.482724
-611.470178    -72.430365    -2237.173
 0.25000   -9.552320   -148.856000   -10.482724
-611.470178    -59.959721    -2343.126
 0.50000   -9.552320   -119.445041   -10.482724
-611.470178    -47.765404    -2450.247
 0.75000   -9.552320    -92.637480   -10.482724
-611.470178    -40.920517    -2558.194
 1.00000   -9.552320    -73.518217   -10.482724
-611.470178    -38.068154    -2667.217

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   12.573950   159.170774    7.719216
628.523326    43.528900    381.667218
 0.25000   12.573950   159.682309    7.719216
629.666526    35.492539    315.336693
 0.50000   12.573950   160.235139    7.719216
630.873213    27.609182    269.110350
 0.75000   12.573950   160.812498    7.719216
632.143401    20.031698    249.661785
 1.00000   12.573950   161.396472    7.719216
633.475617    13.509514    265.054273

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.705288   -37.359791   -1.628780
-299.768343    -12.870959    -1144.663
 0.25000   -3.705288   -36.927367   -1.628780
-298.571231    -13.364884    -1159.290
 0.50000   -3.705288   -36.509744   -1.628780
-297.467421    -14.042720    -1353.752
 0.75000   -3.705288   -36.126128   -1.628780
-296.457397    -14.926060    -1488.506
 1.00000   -3.705288   -35.791228   -1.628780
-295.536423    -16.756014    -1640.769
  Program    SAP2000    Nonlinear    Version    7.42
              File:하행S11~S1503.OUT

                         Page
<          MOVING          LOAD          >
                          1243

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   13.508063   367.274531    7.561345
 1002.828    43.965437    889.407007
 0.25000   13.508063   371.529441    7.561345
 1010.990    36.229254    734.841629
 0.50000   13.508063   376.129903    7.561345
 1019.602    28.841579    619.998471
 0.75000   13.508063   380.932920    7.561345
 1028.665    23.803294    560.079439
 1.00000   13.508063   385.791615    7.561345
 1038.167    24.122036    567.073984

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -11.774143   -79.942854   -11.964772
-486.282637    -68.834534    -2082.510
 0.25000   -11.774143   -76.346203   -11.964772
-477.758324    -57.178894    -2306.111
 0.50000   -11.774143   -72.872750   -11.964772
-469.894650    -45.855361    -2569.576
 0.75000   -11.774143    -69.682187   -11.964772
-462.695099    -37.600285    -2872.173
 1.00000   -11.774143    -66.896883   -11.964772
-456.148229    -33.951827    -3216.101

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   14.317312   579.733665    9.477822
858.962019    53.431783    1453.176
 0.25000   14.317312   608.479073    9.477822
853.564516    43.635997    1283.847
```

```
 0.50000     14.317312   639.571202     9.477822
848.553755    34.263122  1128.662
 0.75000     14.317312   672.047322     9.477822
843.930339    26.624136  1000.462
 1.00000     14.317312   704.891367     9.477822
839.696684    23.563108   920.127538

 COMB DL-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.974248 -197.111072   -9.373024
-389.723610  -82.385356  -2867.713
 0.25000   -11.974248 -172.822401   -9.373024
-394.004358  -73.736006  -3225.407
 0.50000   -11.974248 -149.405426   -9.373024
-398.612267  -65.305349  -3638.816
 0.75000   -11.974248 -127.878215   -9.373024
-403.536157  -59.133646  -4108.892
 1.00000   -11.974248 -109.100164   -9.373024
-408.770374  -56.966629  -4643.241

 COMB DL-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    15.557553   622.792673    13.313997
850.980901    63.875883  1550.619
 0.25000    15.557553   646.449045    13.313997
847.182519    49.810622  1339.705
 0.50000    15.557553   672.035530    13.313997
843.650678    36.697491  1157.179
 0.75000    15.557553   698.750929    13.313997
840.389261    26.492119  1023.123
 1.00000    15.557553   725.789102    13.313997
837.398793    23.521005   956.844979

 COMB DL-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.526707 -184.071178   -9.190969
-645.639209  -80.882898  -3106.166
 0.25000   -11.526707 -164.083030   -9.190969
-648.556162  -72.665344  -3489.036
 0.50000   -11.526707 -144.811767   -9.190969
-651.706514  -65.035795  -3933.622
 0.75000   -11.526707 -127.096083   -9.190969
-655.084680  -60.421197  -4440.497
 1.00000   -11.526707 -111.641912   -9.190969
-658.683916  -61.839400  -5017.130
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1244

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.064631   265.973142    0.930990
297.052372   3.722895  672.572813
 0.25000    2.064631   282.032362    0.930990
317.722921   3.059366  601.246708
 0.50000    2.064631   299.396742    0.930990
339.512522   2.993525  530.565714
 0.75000    2.064631   317.530150    0.930990
362.430960   4.982759  468.021053
 1.00000    2.064631   335.870126    0.930990
386.460278   11.258605  414.623974

 COMB DL-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.558475  -95.468112   -11.260370
-206.267617  -63.755079  -1096.802
 0.25000   -9.558475  -81.895882   -11.260370
-184.827814  -51.248097  -1262.027
 0.50000   -9.558475  -68.794277   -11.260370
-165.076404  -39.160583  -1450.050
 0.75000   -9.558475  -56.755995   -11.260370
-147.003369  -29.570222  -1660.725
 1.00000   -9.558475  -46.250651   -11.260370
-130.554048  -23.567270  -1900.948

 COMB DL-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.238914   522.478739    7.518038
239.515519   31.249036  1330.315
 0.25000    6.238914   554.625756    7.518038
239.515519   22.931188  1190.334
 0.50000    6.238914   589.388829    7.518038
239.515519   15.603345  1050.425
 0.75000    6.238914   625.699244    7.518038
239.515519   10.692778  925.121671
 1.00000    6.238914   662.421021    7.518038
239.515519   12.351401  816.640317

 COMB DL-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.772655 -188.756361   -8.513653
-214.238418  -78.666861  -2131.260
 0.25000   -9.772655 -161.598006   -8.513653
-214.238418  -63.029551  -2453.918
 0.50000   -9.772655 -135.412664   -8.513653
-214.238418  -59.908756  -2821.580
 0.75000   -9.772655 -111.340842   -8.513653
-214.238418  -53.757219  -3233.960
 1.00000   -9.772655  -90.336642   -8.513653
-214.238418  -53.161523  -3704.539

 COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.642360   611.433204    9.561320
685.854018   46.714791  1532.822
 0.25000   10.642360   640.790882    9.561320
686.478855   36.505915  1345.821
 0.50000   10.642360   672.535812    9.561320
687.103692   27.319507  1172.423
 0.75000   10.642360   705.694528    9.561320
687.728529   20.405139  1030.974
 1.00000   10.642360   739.228096    9.561320
688.353367   20.318665  939.529658

 COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.885384 -197.020022   -11.796950
-408.922087  -96.447134  -2948.535
 0.25000  -11.885384 -172.218941   -11.796950
-408.922087  -83.261302  -3341.759
 0.50000  -11.885384 -148.306369   -11.796950
-408.922087  -70.651202  -3764.165
 0.75000  -11.885384 -126.323140   -11.796950
-408.922087  -63.139563  -4242.007
 1.00000  -11.885384 -107.140563   -11.796950
-408.922087  -61.403202  -4785.515
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1245

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.363884   624.291059    9.617920
725.378337   46.411624  1555.948
 0.25000   10.363884   649.114751    9.617920
725.378337   36.383645  1348.456

 0.50000   10.363884   675.958543    9.617920
725.378337   27.966601  1163.275
 0.75000   10.363884   703.997181    9.617920
725.378337   22.257650  1020.301
 1.00000   10.363884   732.353470    9.617920
725.378337   23.277012   946.479209

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -12.350955 -186.187940   -11.933495
-702.138762  -93.536726  -3190.962
 0.25000  -12.350955 -165.216425   -11.933495
-702.138762  -80.501871  -3588.656
 0.50000  -12.350955 -144.996295   -11.933495
-702.138762  -68.045126  -4024.671
 0.75000  -12.350955 -126.408209   -11.933495
-702.138762  -60.284249  -4521.603
 1.00000  -12.350955 -110.188919   -11.933495
-702.138762  -58.492596  -5086.668

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.456635   162.531794    1.595444
258.281026   5.878576  395.985757
 0.25000    2.456635   163.156658    1.595444
256.765181   6.645211  324.809893
 0.50000    2.456635   163.834789    1.595444
255.368176   8.363344  273.534382
 0.75000    2.456635   164.542943    1.595444
254.086259   11.375160  247.086556
 1.00000    2.456635   165.258791    1.595444
252.918437   15.935176  260.433958

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.994835  -36.933838   -6.054943
-595.321374  -24.683995  -1129.269
 0.25000   -5.994835  -36.405326   -6.054943
-596.732655  -18.876015  -1223.030
 0.50000   -5.994835  -35.895220   -6.054943
-598.225672  -13.977173  -1337.131
 0.75000   -5.994835  -35.426606   -6.054943
-599.799649  -10.340928  -1472.309
 1.00000   -5.994835  -35.019776   -6.054943
-601.454178   -8.154152  -1625.836

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.070710   368.990927   10.273028
435.895237   35.716579  912.049491
 0.25000    8.070710   374.649086   10.273028
424.411222   26.992637  755.150686
 0.50000    8.070710   380.785445   10.273028
413.817165   20.348960  635.346070
 0.75000    8.070710   387.194222   10.273028
404.103132   16.440654  565.483573
 1.00000    8.070710   393.671902   10.273028
395.254390   18.810473  563.791484

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.577029  -83.089022   -6.766799
-913.740650  -39.628363  -2047.828
 0.25000   -7.577029  -78.304932   -6.766799
-924.421959  -34.038260  -2265.269
 0.50000   -7.577029  -73.687301   -6.766799
-935.700794  -29.877590  -2522.080
 0.75000   -7.577029  -69.445194   -6.766799
-947.606465  -28.620906  -2817.974
 1.00000   -7.577029  -65.759404   -6.766799
-960.117798  -32.550443  -3155.445
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1246

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.765106   571.518138    7.996111
363.060871   32.603515  1444.951
 0.25000    7.765106   600.600198    7.996111
367.229562   26.331876  1275.679
 0.50000    7.765106   632.027492    7.996111
371.552569   21.570657  1118.838
 0.75000    7.765106   664.860060    7.996111
376.032215   19.185300  985.302268
 1.00000    7.765106   698.064586    7.996111
380.669968   21.738718  900.948846

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.969412 -195.487677   -8.291210
-772.942249  -71.209717  -2774.709
 0.25000  -10.969412 -170.940758   -8.291210
-769.384682  -63.211468  -3122.368
 0.50000  -10.969412 -147.247223   -8.291210
-766.146093  -56.275164  -3526.368
 0.75000  -10.969412 -125.477967   -8.291210
-763.211510  -51.536597  -3986.075
 1.00000  -10.969412 -106.476277   -8.291210
-760.562542  -50.927943  -4509.813

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.719441   620.623710    8.071883
666.125742   46.149760  1547.410
 0.25000    8.719441   644.528723    8.071883
671.383610   29.464141  1336.484
 0.50000    8.719441   670.362681    8.071883
674.231489   24.213574  1153.264
 0.75000    8.719441   697.351847    8.071883
677.170831   21.823768  1015.515
 1.00000    8.719441   724.546772    8.071883
680.202380   26.590808  949.019835

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -14.949468 -184.064868   -15.073708
-800.418607  -102.273808  -3166.906
 0.25000  -14.949468 -163.886942   -15.073708
-798.203399   -85.793441  -3541.549
 0.50000  -14.949468 -144.410747   -15.073708
-796.194724   -70.320312  -3976.159
 0.75000  -14.949468 -126.516344   -15.073708
-794.379896   -59.101916  -4471.735
 1.00000  -14.949468 -110.897874   -15.073708
-792.747169   -55.140418  -5035.533

 COMB       DB -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.289916   493.626848    9.634879
826.714712   52.831279  1904.796
 0.25000   10.289916   525.579623    9.634879
837.925349   41.899136  1586.464
 0.50000   10.289916   562.126059    9.634879
848.961853   31.551888  1255.524
 0.75000   10.289916   600.855741    9.634879
859.901511   24.642332   933.242386
 1.00000   10.289916   640.628171    9.634879
874.761917   24.421248   711.903507

 COMB       DB -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.552320  -199.316140   -10.482724
-775.141515  -72.430365  -2247.777
 0.25000   -9.552320  -161.819645   -10.482724
-789.444308  -59.959721  -2354.696
 0.50000   -9.552320  -126.215801   -10.482724
-803.525011   -47.765404  -2462.675
 0.75000   -9.552320   -93.755395   -10.482724
-817.500172   -42.918143  -2571.512
 1.00000   -9.552320   -73.811234   -10.482724
-836.502851   -42.997429  -2682.911
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1247

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB       DL -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    15.557553   624.291059    13.313997
 1002.828   63.875883  1555.948
 0.25000    15.557553   649.114751    13.313997
 1010.990   49.810622  1348.456
 0.50000    15.557553   675.958543    13.313997
 1019.602   36.697491  1172.423
 0.75000    15.557553   705.694528    13.313997
 1028.665   26.624136  1030.974
 1.00000    15.557553   739.228096    13.313997
 1038.167   26.590808  956.844979

 COMB       DL -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.949468 -197.111072   -15.073708
-913.740650  -102.273808  -3190.962
 0.25000   -14.949468 -172.822401   -15.073708
-924.421959   -85.793441  -3588.656
 0.50000   -14.949468 -149.405426   -15.073708
-935.700794   -70.651202  -4024.671
 0.75000   -14.949468 -127.878215   -15.073708
-947.606465   -63.139563  -4521.603
 1.00000   -14.949468 -111.641912   -15.073708
-960.117798   -61.839400  -5086.668

 COMB       CAR -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    15.557553   624.291059    13.313997
 1002.828   63.875883  1904.796
 0.25000    15.557553   649.114751    13.313997
 1010.990   49.810622  1586.464
 0.50000    15.557553   675.958543    13.313997
 1019.602   36.697491  1255.524
 0.75000    15.557553   705.694528    13.313997
 1028.665   26.624136  1030.974
 1.00000    15.557553   739.228096    13.313997
 1038.167   26.590808  956.844979

 COMB       CAR -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.949468 -199.316140   -15.073708
-913.740650  -102.273808  -3190.962
 0.25000   -14.949468 -172.822401   -15.073708
-924.421959   -85.793441  -3588.656
 0.50000   -14.949468 -149.405426   -15.073708
-935.700794   -70.651202  -4024.671
 0.75000   -14.949468 -127.878215   -15.073708
-947.606465   -63.139563  -4521.603
 1.00000   -14.949468 -111.641912   -15.073708
-960.117798   -61.839400  -5086.668

 COMB  DESIGN -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    15.557553   624.291059    13.313997
 1002.828   63.875883  1904.796
 0.25000    15.557553   649.114751    13.313997
 1010.990   49.810622  1586.464
 0.50000    15.557553   675.958543    13.313997
 1019.602   36.697491  1255.524
 0.75000    15.557553   705.694528    13.313997
 1028.665   26.624136  1030.974
 1.00000    15.557553   739.228096    13.313997
 1038.167   26.590808  956.844979

 COMB  DESIGN -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -14.949468 -199.316140   -15.073708
-913.740650  -102.273808  -3190.962
 0.25000   -14.949468 -172.822401   -15.073708
-924.421959   -85.793441  -3588.656
 0.50000   -14.949468 -149.405426   -15.073708
-935.700794   -70.651202  -4024.671
 0.75000   -14.949468 -127.878215   -15.073708
-947.606465   -63.139563  -4521.603
 1.00000   -14.949468 -111.641912   -15.073708
-960.117798   -61.839400  -5086.668
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1248

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM        95 ================== LENGTH
=    3.471159

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.507830   106.021949   21.711044
422.470180   11.027305  194.969205
 0.25000    6.507830   106.477480   21.711044
423.504948    8.673751  213.160089
 0.50000    6.507830   106.950835   21.711044
424.505468    15.158904  231.551552
 0.75000    6.507830   107.437316   21.711044
425.473415   21.621183  251.480368
 1.00000    6.507830   107.917929   21.711044
426.415347   28.131796  271.411250

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.946797  -42.790438   -7.502934
-359.316423  -10.880755  -924.536156
 0.25000   -2.946797  -42.545571   -7.502934
-358.395561   -17.561335  -926.070796
 0.50000   -2.946797  -42.300240   -7.502934
-357.501449   -33.114470  -927.958058
 0.75000   -2.946797  -42.162389   -7.502934
-356.627191   -48.708023  -930.790614
 1.00000   -2.946797  -42.162389   -7.502934
-355.774085   -64.825264  -933.980625

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.604337   318.030236   24.670480
738.547090   21.493752  415.691084
 0.25000    7.604337   322.600106   24.670480
747.839686   52.486534  396.171041
 0.50000    7.604337   327.347821   24.670480
756.824312   94.057326  416.692629
 0.75000    7.604337   332.226395   24.670480
765.517047   135.754121  452.593248
 1.00000    7.604337   337.045520   24.670480
773.978206   177.949410  488.504983

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.559565  -57.661767   -48.686461
-569.663203  -22.109947  -1752.346
 0.25000   -8.559565  -55.204844   -48.686461
-561.385688  -23.312353  -1794.860
 0.50000   -8.559565  -52.743607   -48.686461
-553.345643  -32.958335  -1838.982
 0.75000   -8.559565  -51.453273   -48.686461
-545.479887  -54.055276  -1883.843
 1.00000   -8.559565  -51.453223   -48.686461
-537.801610   -75.368312  -1930.207

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.923851   594.178747   24.070413
588.942998   19.906436  679.963063
 0.25000    8.923851   621.533345   24.070413
586.839332   34.834016  602.583632
 0.50000    8.923851   649.903717   24.070413
586.839332   60.969260  561.357423
 0.75000    8.923851   679.013258   24.070413
586.839332   88.527394  609.714993
 1.00000    8.923851   707.735542   24.070413
586.839332   120.821056  658.080487

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.079546  -96.176356   -39.154460
-442.675765  -36.780383  -2440.073
 0.25000   -8.079546  -81.445127   -39.154460
-442.675765  -30.097099  -2536.987
 0.50000   -8.079546  -66.706617   -39.154460
-442.675765  -32.983036  -2638.428
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1249

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   -8.079546  -63.949144   -39.154460
-442.675765  -53.567302  -2743.602
 1.00000   -8.079546  -63.949144   -39.154460
-442.675765  -74.373519  -2852.111

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   10.234430   629.424362   41.741032
668.698383   18.670625  712.050692
 0.25000   10.234430   651.910934   41.741032
668.698383   32.761104  636.940898
 0.50000   10.234430   675.231319   41.741032
668.698383   55.434127  616.407812
 0.75000   10.234430   699.159847   41.741032
668.698383   80.717837  669.530367
 1.00000   10.234430   722.770503   41.741032
668.698383   111.882691  722.659522

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.888864  -94.589558   -37.230974
-629.251142  -39.015883  -2681.429
 0.25000   -7.888864  -82.481103   -37.230974
-629.251142  -49.795563  -2784.970
 0.50000   -7.888864  -70.366447   -37.230974
-629.251142  -71.012681  -2892.518
 0.75000   -7.888864  -68.041553   -37.230974
-629.251142  -106.729404  -3003.459
 1.00000   -7.888864  -68.041553   -37.230974
-629.251142  -142.820630  -3117.336

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    1.698715   310.619501    3.596091
272.640496   12.156339  311.987307
 0.25000    1.698715   325.291716    3.596091
289.717207   48.941557  245.684896
 0.50000    1.698715   340.523665    3.596091
306.222616   87.164299  215.434487
 0.75000    1.698715   356.166116    3.596091
322.172246   125.457593  203.693193
 1.00000    1.698715   371.610870    3.596091
337.778382   164.463048  252.602728

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.325863  -40.284284   -45.534648
-199.291681  -15.085266  -985.489769
 0.25000   -6.325863  -32.390963   -45.534648
-183.977705   -6.459397  -1045.333
 0.50000   -6.325863  -24.487843   -45.534648
-169.064004   -7.164663  -1107.353
 0.75000   -6.325863  -21.429762   -45.534648
-154.418069  -10.280183  -1171.208
 1.00000   -6.325863  -21.429762   -45.534648
-140.084301  -13.398767  -1236.795

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.278681   615.671739   22.018873
228.528355   11.641311  613.410783
 0.25000    5.278681   645.524900   22.018873
228.528355   32.586907  476.816236
 0.50000    5.278681   676.484603   22.018873
228.528355   54.952034  414.753096
 0.75000    5.278681   708.251864   22.018873
228.528355   80.191063  450.495458
 1.00000    5.278681   739.597284   22.018873
228.528355   112.272821  486.241420

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.370322  -76.479955   -38.482555
-202.139944  -33.903877  -1901.760
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1250

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -6.370322  -60.405207   -38.482555
-202.139944  -34.305001  -2019.873
 0.50000   -6.370322  -44.322149   -38.482555
-202.139944  -44.012112  -2142.724
 0.75000   -6.370322  -41.214830   -38.482555
-202.139944  -62.982967  -2270.001
 1.00000   -6.370322  -41.214830   -38.482555
-202.139944  -82.002877  -2400.634

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.915642   656.545868   29.197605
531.682718   16.184955  701.694614
 0.25000    7.915642   683.705133   29.197605
531.682718   45.600876  599.143421
```

```
 0.50000     7.915642   711.869868    29.197605
531.682718    79.855387  558.243318
 0.75000     7.915642   740.769817    29.197605
531.682718   115.876763  606.346230
 1.00000     7.915642   769.286470    29.197605
531.682718   159.472454  654.459543

 COMB DB-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -7.238549  -87.619751   -51.085783
-436.925802  -39.669548  -2477.017
 0.25000    -7.238549  -72.996791   -51.085783
-436.925802  -41.377933  -2595.360
 0.50000    -7.238549  -58.366048   -51.085783
-436.925802  -51.824894  -2718.049
 0.75000    -7.238549  -55.479661   -51.085783
-436.925802  -78.916854  -2845.027
 1.00000    -7.238549  -55.479661   -51.085783
-436.925802 -102.113120  -2975.028

 COMB DB-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     7.277556   630.915900    30.208942
639.595754   16.962884  704.051198
 0.25000     7.277556   653.804662    30.208942
639.595754   43.211941  635.814462
 0.50000     7.277556   677.541822    30.208942
639.595754   74.270390  613.761587
 0.75000     7.277556   701.838145    30.208942
639.595754  108.160906  666.696963
 1.00000     7.277556   725.931039    30.208942
639.595754  149.060172  719.641016

 COMB DB-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -7.790607   -88.078573   -48.330138
-624.289920  -36.661114  -2683.095
 0.25000    -7.790607   -75.753880   -48.330138
-624.289920  -41.198356  -2788.953
 0.50000    -7.790607   -63.422814   -48.330138
-624.289920  -54.672734  -2898.411
 0.75000    -7.790607   -61.040397   -48.330138
-624.289920  -80.704495  -3011.435
 1.00000    -7.790607   -61.040397   -48.330138
-624.289920 -106.815737  -3127.068

 COMB DB-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     1.837795   108.053589     3.633114
331.108929   10.190826  191.711047
 0.25000     1.837795   108.630306     3.633114
329.964636   14.657502  209.120536
 0.50000     1.837795   109.230178     3.633114
328.861022   19.616575  226.933577
 0.75000     1.837795   109.844767     3.633114
327.791949   24.871277  246.591724
 1.00000     1.837795   110.450487     3.633114
326.755546   33.246171  266.249884
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                1251

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -3.415248   -39.266578   -10.612753
-419.065188   -4.252680  -919.271687
 0.25000    -3.415248   -38.954033   -10.612753
-420.372242   -3.572675  -917.896640
 0.50000    -3.415248   -38.689436   -10.612753
-421.637004   -6.526079  -917.112903
 0.75000    -3.415248   -38.689436   -10.612753
-422.859053   -9.602535  -916.551359
 1.00000    -3.415248   -38.689436   -10.612753
-424.043313  -12.714252  -916.561000

 COMB DB-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     5.815749   333.995603    35.027099
543.716842   12.515070  419.098564
 0.25000     5.815749   340.141653    35.027099
533.100569   17.909309  388.605395
 0.50000     5.815749   346.531965    35.027099
522.861962   24.473164  403.775035
 0.75000     5.815749   353.080354    35.027099
512.954814   32.307537  438.670290
 1.00000     5.815749   359.535245    35.027099
503.355277   45.244018  473.565701

 COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -4.847744   -53.854831   -15.868963
-701.264919  -18.896270  -1717.738
 0.25000    -4.847744   -50.526873   -15.868963
-713.406915  -21.548729  -1759.330
 0.50000    -4.847744   -47.557779   -15.868963
-725.156540  -70.180089  -1802.399
 0.75000    -4.847744   -47.557779   -15.868963
-736.508143 -100.223557  -1847.548
 1.00000    -4.847744   -47.557779   -15.868963
-747.505413 -130.352875  -1893.712

 COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     6.036468   598.469839    20.212455
428.207683   6.748480  674.207115
 0.25000     6.036468   626.036381    20.212455
428.207683   22.329443  591.192946
 0.50000     6.036468   654.622626    20.212455
428.207683   30.269834  548.170320
 0.75000     6.036468   683.955476    20.212455
428.207683   39.339625  595.500481
 1.00000     6.036468   712.899615    20.212455
428.207683   61.082655  642.830885

 COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -6.425536   -92.870635   -25.490748
-547.327713  -31.402691  -2400.024
 0.25000    -6.425536   -78.029244   -25.490748
-547.327713  -29.262714  -2494.265
 0.50000    -6.425536   -63.179799   -25.490748
-547.327713  -39.331718  -2592.664
 0.75000    -6.425536   -60.208954   -25.490748
-547.327713  -56.712548  -2695.461
 1.00000    -6.425536   -60.208954   -25.490748
-547.327713  -74.158532  -2801.164

 COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     6.420731   624.120913    21.326031
633.584184   19.448650  706.656987
 0.25000     6.420731   646.707424    21.326031
633.584184   53.264207  632.931551
 0.50000     6.420731   670.130945    21.326031
633.584184   89.852077  611.730073
 0.75000     6.420731   694.165533    21.326031
633.584184  128.910814  664.530427
 1.00000     6.420731   717.881035    21.326031
633.584184  176.496243  717.339168
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                1252

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -9.505775   -92.242212   -55.994471
-641.548540  -34.492721  -2667.814
 0.25000    -9.505775   -80.080455   -55.994471
-641.548540  -31.742664  -2768.622
 0.50000    -9.505775   -67.912377   -55.994471
-641.548540  -39.996617  -2873.050
 0.75000    -9.505775   -65.552431   -55.994471
-641.548540  -57.777197  -2981.201
 1.00000    -9.505775   -65.552431   -55.994471
-641.548540  -76.162455  -3091.892

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    12.954188   138.975529    45.237741
537.883569   13.527438  265.191060
 0.25000    12.954188   139.397249    45.237741
538.793093   10.958601  281.849560
 0.50000    12.954188   139.834059    45.237741
539.722014   19.518590  302.126267
 0.75000    12.954188   140.276317    45.237741
540.671502   28.155475  324.842125
 1.00000    12.954188   140.714804    45.237741
541.642139   36.853768  350.272761

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -3.629970   -58.919025   -10.087982
-523.004604  -15.905918  -1641.599
 0.25000    -3.629970   -58.660619   -10.087982
-522.074244  -42.951601  -1722.284
 0.50000    -3.629970   -58.417218   -10.087982
-521.214780  -80.719047  -1807.519
 0.75000    -3.629970   -58.194668   -10.087982
-520.421870 -118.703688  -1896.265
 1.00000    -3.629970   -58.070947   -10.087982
-519.692249 -156.750407  -1988.030

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.777421   424.260861    44.709171
913.560614   23.021162  567.177421
 0.25000    13.777421   427.783263    44.709171
920.045965   60.093520  533.747152
 0.50000    13.777421   431.429664    44.709171
926.666230  114.206715  546.019153
 0.75000    13.777421   435.121044    44.709171
933.434666  169.564717  576.624208
 1.00000    13.777421   438.782543    44.709171
940.359718  225.327516  619.356680

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.004823   -84.174782   -64.674117
-800.538503 -135.536113  -3217.459
 0.25000   -12.004823   -82.021259   -64.674117
-793.713172  -48.913819  -3473.593
 0.50000   -12.004823   -79.988387   -64.674117
-787.593564  -81.375041  -3749.655
 0.75000   -12.004823   -78.143749   -64.674117
-781.950039 -119.295770  -4046.395
 1.00000   -12.004823   -77.021237   -64.674117
-776.746807 -157.671672  -4351.741

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    14.377313   759.519998    44.592672
779.222083   21.714305  920.267986
 0.25000    14.377313   783.891728    44.592672
774.931525   44.096146  848.678275
 0.50000    14.377313   809.120171    44.592672
770.996814   81.582977  809.395284
 0.75000    14.377313   834.659222    44.592672
767.443825  125.970636  788.782874
 1.00000    14.377313   860.005902    44.592672
764.294321  174.615605  842.834247
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                1253

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.959237  -137.634410   -58.112178
-664.580472  -54.725491  -4644.335
 0.25000   -11.959237  -122.991911   -58.112178
-668.416852  -62.750533  -4701.056
 0.50000   -11.959237  -109.196807   -58.112178
-672.334246  -84.757504  -5594.704
 0.75000   -11.959237   -96.698616   -58.112178
-676.284173 -119.000209  -6127.890
 1.00000   -11.959237   -95.022610   -58.112178
-680.219261 -156.960563  -6695.869

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    15.724209   813.302787    60.413007
884.397214   20.385721  956.941481
 0.25000    15.724209   833.355785    60.413007
881.367020   41.329292  878.990322
 0.50000    15.724209   854.110894    60.413007
878.590671   76.510678  854.731319
 0.75000    15.724209   875.121646    60.413007
876.091551  118.652427  853.858050
 1.00000    15.724209   895.974078    60.413007
873.889330  165.089282  914.437570

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.522591  -133.754942   -55.284694
-852.305398  -58.753950  -5017.572
 0.25000   -11.522591  -121.706209   -55.284694
-854.976397  -81.625825  -5512.927
 0.50000   -11.522591  -110.354421   -55.284694
-857.703944 -119.061071  -6052.360
 0.75000   -11.522591  -100.069532   -55.284694
-860.447999 -167.602912  -6632.408
 1.00000   -11.522591   -98.643862   -55.284694
-863.168672 -219.272195  -7242.470

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     1.890078   388.178472     5.055343
311.509302   10.080178  414.512101
 0.25000     1.890078   401.573706     5.055343
327.849239   51.771943  353.981084
 0.50000     1.890078   415.432587     5.055343
344.545867  102.666791  320.640415
 0.75000     1.890078   429.470090     5.055343
361.637122  155.808480  298.508916
 1.00000     1.890078   443.390696     5.055343
379.116616  209.480423  316.799117

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -9.870243   -54.577369   -62.169860
-258.522290  -22.945344  -1901.341
 0.25000    -9.870243   -46.435475   -62.169860
-241.885752  -11.469013  -2132.439
 0.50000    -9.870243   -38.752890   -62.169860
-226.505772  -11.930209  -2383.410
 0.75000    -9.870243   -31.786944   -62.169860
-212.320712  -15.510002  -2657.775
 1.00000    -9.870243   -29.072703   -62.169860
-199.224393  -19.616698  -2950.201

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     6.026005   775.059556    25.644648
291.464276  10.528597  816.660344
 0.25000     6.026005   802.275520    25.644648
291.464276  36.817488  692.712238
 0.50000     6.026005   830.438848    25.644648
291.464276  67.024153  623.337942
 0.75000     6.026005   858.953859    25.644648
291.464276 107.897262  578.890606
 1.00000     6.026005   887.245125    25.644648
291.464276 154.314130  616.319999
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                1254

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -9.773307  -104.459565   -54.458701
-255.471850  -51.364961  -3704.565
 0.25000    -9.773307   -88.095142   -54.458701
-255.471850  -50.579087  -4164.417
 0.50000    -9.773307   -72.675281   -54.458701
-255.471850  -56.535356  -4665.509
 0.75000    -9.773307   -58.702797   -54.458701
-255.471850  -75.963110  -5213.844
 1.00000    -9.773307   -56.489912   -54.458701
-255.471850  -97.824639  -5799.419

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.579477   840.286701    38.057873
678.373491  17.915603  939.654656
 0.25000    10.579477   865.133209    38.057873
678.764967  53.572673  842.602563
 0.50000    10.579477   890.841905    38.057873
679.134422  96.998383  796.863395
 0.75000    10.579477   916.871789    38.057873
679.486918 150.778529  775.517214
 1.00000    10.579477   942.697212    38.057873
679.828335 209.816359  828.917265

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.955031  -120.896634   -68.808280
-599.301904  -58.926972  -4785.684
 0.25000   -11.955031  -105.955124   -68.808280
-599.255291  -64.857486  -5283.272
 0.50000   -11.955031   -91.874884   -68.808280
-599.187855  -79.947403  -5825.399
 0.75000   -11.955031   -79.115783   -68.808280
-599.102859 -110.645266  -6412.731
 1.00000   -11.955031   -77.021122   -68.808280
-599.006785 -143.183654  -7033.829

 COMB DL-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.327628   813.360388    39.598629
839.423789  19.417008  946.496382
 0.25000    10.327628   834.377109    39.598629
839.423789  51.571115  876.769144
 0.50000    10.327628   856.124626    39.598629
839.423789  94.275714  852.098188
 0.75000    10.327628   878.143709    39.598629
839.423789 145.866948  849.390850
 1.00000    10.327628   899.990019    39.598629
839.423789 202.675180  909.866612

 COMB DL-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.467223  -121.802428   -66.273480
-817.111972  -54.766758  -5086.277
 0.25000   -12.467223  -109.165940   -66.273480
-817.111972  -61.853911  -5578.370
 0.50000   -12.467223   -97.258835   -66.273480
-817.111972  -76.986948  -6115.267
 0.75000   -12.467223   -86.469385   -66.273480
-817.111972 -112.730477  -6692.596
 1.00000   -12.467223   -84.760612   -66.273480
-817.111972 -146.601312  -7298.958

 COMB DL-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     2.336004   138.987879     5.381923
463.285546  13.379328  260.311649
 0.25000     2.336004   139.529658     5.381923
462.102931  25.411872  274.904676
 0.50000     2.336004   140.092480     5.381923
461.014182  41.834737  293.563532
 0.75000     2.336004   140.662718     5.381923
460.011541  58.508160  315.122874
 1.00000     2.336004   141.226796     5.381923
459.095095  76.359133  339.705066
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                1255

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -6.104223   -55.996312   -20.949483
-516.962750  -6.093008  -1625.005
 0.25000    -6.104423   -55.674937   -20.949483
-518.103404  -5.000106  -1702.551
 0.50000    -6.104423   -55.372738   -20.949483
-519.266694  -9.454360  -1785.367
 0.75000    -6.104423   -55.165755   -20.949483
-520.453321  -14.067198  -1872.011
 1.00000    -6.104423   -55.163404   -20.949483
-521.662918  -18.709208  -1961.729

 COMB DL-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     8.089447   436.898681    40.926900
725.114390  15.767589  563.755425
 0.25000     8.089447   441.786069    40.926900
716.157944  27.291002  522.105264
 0.50000     8.089447   446.858015    40.926900
707.895305  45.554746  528.345523
 0.75000     8.089447   451.997781    40.926900
700.302293  65.078895  554.644173
 1.00000     8.089447   457.085884    40.926900
693.348695  87.108402  596.757582

 COMB DL-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -7.591696   -81.018971   -26.333075
-834.606067  -29.353921  -3154.217
 0.25000    -7.591696   -78.113425   -26.333075
-843.246615  -53.637892  -3407.503
 0.50000    -7.591696   -75.380736   -26.333075
-852.056832  -87.105742  -3683.593
 0.75000    -7.591696   -73.358336   -26.333075
-861.040521 -121.710968  -3982.797
 1.00000    -7.591696   -73.330756   -26.333075
-870.197526 -156.775152  -4292.431

 COMB DL-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     7.508474   751.494530    28.153622
616.181470  17.757743  900.845517
 0.25000     7.508474   776.069533    28.153622
619.115214  32.870734  825.466032
 0.50000     7.508474   801.502141    28.153622
622.111982  56.179995  784.074961
 0.75000     7.508474   827.230224    28.153622
625.221299  89.043243  760.622145
 1.00000     7.508474   852.766677    28.153622
628.493690 126.279755  812.870997

 COMB DL-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.940464  -134.245709   -44.948557
-701.761829  -47.225452  -4508.813
 0.25000   -10.940464  -119.455663   -44.948557
-699.083258  -45.798282  -4955.628
 0.50000   -10.940464  -105.516770   -44.948557
-696.589064  -57.307636  -5440.791
 0.75000   -10.940464   -92.883917   -44.948557
-694.223964  -80.495842  -5966.134
 1.00000   -10.940464   -90.537675   -44.948557
-691.939624 -104.725771  -6526.111

 COMB DL-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     8.527070   803.749992    30.703814
856.498524  22.498363  948.983095
 0.25000     8.527070   823.956445    30.703814
858.374270  66.151606  873.219361
 0.50000     8.527070   844.869175    30.703814
860.290913 119.791450  848.539672
 0.75000     8.527070   866.024967    30.703814
862.288543 182.040555  846.472616
 1.00000     8.527070   887.023232    30.703814
864.409003 248.485502  906.731447
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                1256

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.147829  -132.218630   -78.322411
-848.623526  -51.404915  -5034.967
 0.25000   -15.147829  -120.059818   -78.322411
-846.973094  -50.927947  -5515.538
 0.50000   -15.147829  -108.601112   -78.322411
-845.432065  -64.128111  -6038.892
 0.75000   -15.147829  -98.216403   -78.322411
-843.956062  -88.933684  -6602.409
 1.00000   -15.147829  -96.338994   -78.322411
-842.508323 -115.096591  -7205.905

 COMB      DB ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.234430   656.545868    41.741032
738.547090  21.493752  712.050692
 0.25000    10.234430   683.705133    41.741032
747.839686  53.264207  636.949898
 0.50000    10.234430   711.869868    41.741032
756.824312  94.057326  616.407812
 0.75000    10.234430   740.769817    41.741032
765.515047 135.754121  669.530367
 1.00000    10.234430   769.286470    41.741032
773.978206 177.949410  722.659522

 COMB      DB ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -9.505775   -96.176356   -55.994471
-701.264919  -39.669548  -2683.095
 0.25000    -9.505775   -82.481103   -55.994471
-713.406915  -49.795563  -2788.953
 0.50000    -9.505775   -70.366447   -55.994471
-725.156540  -71.012667  -2898.411
 0.75000    -9.505775   -68.041553   -55.994471
-736.508143 -106.729404  -3011.435
 1.00000    -9.505775   -68.041553   -55.994471
-747.505413 -142.820630  -3127.068

 COMB      DL ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    15.724209   840.286701    60.413007
913.560614  23.021162  956.941481
 0.25000    15.724209   865.133209    60.413007
920.045965  66.151606  878.990322
 0.50000    15.724209   890.841905    60.413007
926.666230 119.791450  854.731319
 0.75000    15.724209   916.871789    60.413007
933.434666 182.040555  853.858050
 1.00000    15.724209   942.697212    60.413007
940.359718 248.485502  914.437570

 COMB      DL ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -15.147829  -137.634410   -78.322411
-852.305398  -58.926972  -5086.277
 0.25000   -15.147829  -122.991911   -78.322411
-854.976397  -81.625825  -5578.370
 0.50000   -15.147829  -110.354421   -78.322411
-857.703944 -119.061071  -6115.267
 0.75000   -15.147829  -100.069532   -78.322411
-861.040521 -167.602912  -6692.596
 1.00000   -15.147829   -98.643862   -78.322411
-870.197526 -219.272195  -7298.958

 COMB      CAR ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    15.724209   840.286701    60.413007
913.560614  23.021162  956.941481
 0.25000    15.724209   865.133209    60.413007
920.045965  66.151606  878.990322
 0.50000    15.724209   890.841905    60.413007
926.666230 119.791450  854.731319
 0.75000    15.724209   916.871789    60.413007
933.434666 182.040555  853.858050
 1.00000    15.724209   942.697212    60.413007
940.359718 248.485502  914.437570
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                1257

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------ MIN
```

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -15.147829 -137.634410  -78.322411
-852.305398  -58.926972  -5086.277
 0.25000  -15.147829 -122.991911  -78.322411
-854.976397  -81.625825  -5578.370
 0.50000  -15.147829 -110.354421  -78.322411
-857.703944 -119.061071  -6115.267
 0.75000  -15.147829 -100.069532  -78.322411
-861.040521 -167.602912  -6692.596
 1.00000  -15.147829  -98.643862  -78.322411
-870.197526 -219.272195  -7298.958

 COMB  DESIGN ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  15.724209  840.286701   60.413007
913.560614  23.021162  956.941481
 0.25000  15.724209  865.133209   60.413007
920.045965  66.151606  878.990322
 0.50000  15.724209  890.841905   60.413007
926.666230 119.791450  854.731319
 0.75000  15.724209  916.871789   60.413007
933.434666 182.040555  853.858050
 1.00000  15.724209  942.697212   60.413007
940.359718 248.485502  914.437570

 COMB  DESIGN ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -15.147829 -137.634410  -78.322411
-852.305398  -58.926972  -5086.277
 0.25000  -15.147829 -122.991911  -78.322411
-854.976397  -81.625825  -5578.370
 0.50000  -15.147829 -110.354421  -78.322411
-857.703944 -119.061071  -6115.267
 0.75000  -15.147829 -100.069532  -78.322411
-861.040521 -167.602912  -6692.596
 1.00000  -15.147829  -98.643862  -78.322411
-870.197526 -219.272195  -7298.958

 ELEM        96 ================== LENGTH
=      4.957662

 COMB DB-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.877581   37.708089    6.629188
326.397085  29.971371  271.191831
 0.25000   5.877581   37.999051    6.629188
327.332388  21.762408  264.843328
 0.50000   5.877581   38.328515    6.629188
328.387569  13.554616  259.079745
 0.75000   5.877581   38.674416    6.629188
329.461432   5.353351  254.687808
 1.00000   5.877581   39.289126    6.629188
330.973238  18.776983  251.505090

 COMB DB-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -2.012830 -124.279617  -16.985832
-501.213388  -66.317637 -933.659287
 0.25000  -2.012830 -123.602235  -16.985832
-499.652946  -45.757204 -805.323559
 0.50000  -2.012830 -122.924874  -16.985832
-498.511615  -26.921044 -755.225489
 0.75000  -2.012830 -122.272471  -16.985832
-497.341142  -1.939275 -758.708548
 1.00000  -2.012830 -121.668021  -16.985832
-496.126529   -6.379754 -763.432989

 COMB DB-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.857544   38.016247   38.795112
493.236795 179.993971  488.060810
 0.25000   7.857544   40.899502   38.795112
501.647454 131.979765  476.679611
 0.50000   7.857544   44.202391   38.795112
511.127361  83.996202  470.825813
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              1258

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000   7.857544   47.670002   38.795112
520.770799  36.048144  478.913606
 1.00000   7.857544   53.734145   38.795112
534.347936  19.973937  583.450608

 COMB DB-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -7.624363 -346.988918  -19.111341
-870.208376  -77.530407  -1926.394
 0.25000  -7.624363 -340.200352  -19.111341
-856.198051  -54.072858  -1640.570
 0.50000  -7.624363 -333.411747  -19.111341
-845.961523  -30.883899  -1524.883
 0.75000  -7.624363 -326.871956  -19.111341
-835.466376  -18.842096  -1479.427
 1.00000  -7.624363 -320.811180  -19.111341
-824.575498  -20.628123  -1436.784

 COMB DB-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   8.957591   37.735857   31.034321
408.101677 124.679484  657.346753
 0.25000   8.957591   49.907192   31.034321
407.770961  87.445847  642.235927
 0.50000   8.957591   69.557344   31.034321
407.770961  53.936106  653.008041
 0.75000   8.957591   90.184675   31.034321
407.770961  23.576288  756.661288
 1.00000   8.957591  120.979001   31.034321
407.770961  20.646183  980.247418

 COMB DB-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -7.177740 -721.240518  -18.593505
-676.205397  -75.822162  -2847.965
 0.25000  -7.177740 -680.970516  -18.593505
-676.205397  -52.959608  -2403.698
 0.50000  -7.177740 -640.688857  -18.593505
-676.205397  -30.363874  -2219.436
 0.75000  -7.177740 -601.811753  -18.593505
-676.205397  -26.252985  -2102.299
 1.00000  -7.177740 -565.695776  -18.593505
-676.205397  -34.937175  -1993.350

 COMB DB-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  10.516910   34.517121   29.440363
613.458983 116.632448  721.692597
 0.25000  10.516910   44.581684   29.440363
613.458983  80.968267  705.270282
 0.50000  10.516910   60.735247   29.440363
613.458983  49.295473  710.206118
 0.75000  10.516910   77.691808   29.440363
613.458983  22.373345  791.376992
 1.00000  10.516910  103.064610   29.440363
613.458983  21.475370  1023.043

 COMB DB-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.955855 -731.729599  -32.523265
-717.984664 -143.945171  -3114.692
 0.25000  -6.955855 -698.624968  -32.523265
-717.984664 -103.830921  -2627.538
 0.50000  -6.955855 -665.509828  -32.523265
-717.984664  -63.939669  -2430.505
 0.75000  -6.955855 -633.550528  -32.523265
-717.984664  -39.371377  -2308.076
 1.00000  -6.955855 -603.860281  -32.523265
-717.984664  -36.188102  -2192.878

 COMB DB-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   2.479053   4.692954   35.188779
124.651919 164.437010  252.300617
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              1259

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000   2.479053   12.834101   35.188779
140.232872 121.194123  246.513369
 0.50000   2.479053   23.411802   35.188779
157.719746  77.954384  256.926661
 0.75000   2.479053   34.516332   35.188779
175.421066  34.841774  313.950170
 1.00000   2.479053   52.783084   35.188779
200.382253   1.567979  474.341329

 COMB DB-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.432408 -366.889940   -3.059877
-357.390962  -13.619882  -1232.731
 0.25000  -6.432408 -345.175202   -3.059877
-331.684046   -9.828228  -1030.588
 0.50000  -6.432408 -323.457480   -3.059877
-313.045768   -6.037181  -945.736214
 0.75000  -6.432408 -302.520169   -3.059877
-293.970035   -8.111485 -870.808860
 1.00000  -6.432408 -283.096939   -3.059877
-274.174187  -19.750626 -799.671043

 COMB DB-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.131832   8.817509   29.593836
196.435980 114.742939  485.538001
 0.25000   6.131832   22.200402   29.593836
196.435980  80.014705  474.520169
 0.50000   6.131832   43.645931   29.593836
196.435980  49.659504  492.023579
 0.75000   6.131832   66.157536   29.593836
196.435980  23.265084  610.609915
 1.00000   6.131832   99.872892   29.593836
196.435980   7.312561  933.546335

 COMB DB-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.713141 -729.913680  -17.508941
-228.697473  -37.861753  -2097.342
 0.25000  -6.713141 -685.963604  -17.508941
-228.697473  -60.012353  -1999.976
 0.50000  -6.713141 -641.999243  -17.508941
-228.697473  -38.368827  -1833.766
 0.75000  -6.713141 -599.569818  -17.508941
-228.697473  -29.194335  -1684.777
 1.00000  -6.713141 -560.152535  -17.508941
-228.697473  -35.286433  -1544.204

 COMB DB-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   8.475193   15.351780   39.924259
415.036787 161.907407  653.644774
 0.25000   8.475193   27.587616   39.924259
415.036787 114.505804  638.728915
 0.50000   8.475193   47.098132   39.924259
415.036787  71.155645  649.708120
 0.75000   8.475193   67.576575   39.924259
415.036787  31.355141  752.206658
 1.00000   8.475193   98.319647   39.924259
415.036787  14.010719  1027.842

 COMB DB-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -7.370668 -770.011450  -22.894915
-582.491906 -102.982852  -2970.891
 0.25000  -7.370668 -730.026243  -22.894915
-582.491906  -74.704829  -2496.789
 0.50000  -7.370668 -690.027092  -22.894915
-582.491906  -46.455356  -2299.566
 0.75000  -7.370668 -651.425636  -22.894915
-582.491906  -34.747575  -2155.257
 1.00000  -7.370668 -615.563792  -22.894915
-582.491906  -39.352003  -2018.494
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              1260

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.915098   17.765624   37.760232
630.163468 152.176430  718.583779
 0.25000   7.915098   28.026441   37.760232
630.163468 106.936232  702.294364
 0.50000   7.915098   44.468975   37.760232
630.163468  65.077864  707.758289
 0.75000   7.915098   61.728882   37.760232
630.163468  29.132560  790.790699
 1.00000   7.915098   87.578932   37.760232
630.163468  15.167320  1006.941

 COMB DB-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -7.083982 -735.366903   -23.776642
-657.312497 -107.569179  -3123.855
 0.25000  -7.083982 -701.669275   -23.776642
-657.312497  -78.252568  -2634.175
 0.50000  -7.083982 -667.961295   -23.776642
-657.312497  -49.198608  -2437.494
 0.75000  -7.083982 -635.430167   -23.776642
-657.312497  -34.608492  -2312.995
 1.00000  -7.083982 -605.208483   -23.776642
-657.312497  -37.403309  -2194.750

 COMB DB-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   1.598231   36.694885    8.091858
469.015255  34.948866  265.658052
 0.25000   1.598231   36.843242    8.091858
467.036987  25.019282  259.722619
 0.50000   1.598231   37.256888    8.091858
465.563946   1.476996  254.184028
 0.75000   1.598231   37.691025    8.091858
464.046627  10.065944  250.816857
 1.00000   1.598231   38.225671    8.091858
462.471952   8.109223  249.027407

 COMB DB-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -1.995348 -128.260232   -2.421707
-281.887933  -11.013680 -916.550962
 0.25000  -1.995348 -127.415125   -2.421707
-283.046559   -8.024915 -787.979442
 0.50000  -1.995348 -126.569455   -2.421707
-284.367090   -5.067017 -747.838826
 0.75000  -1.995348 -125.751746   -2.421707
-285.726966   -2.568189 -756.455977
 1.00000  -1.995348 -124.993162   -2.421707
-287.634928   -6.487573 -766.332957

 COMB DB-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.842954   36.195719   12.371656
804.900311  47.55548  472.586435
 0.25000   5.842954   37.931968   12.371656
786.518289  33.117457  462.099406
 0.50000   5.842954   42.341085   12.371656
772.813197  19.679320  456.061613
 0.75000   5.842954   46.968729   12.371656
758.691672  12.381993  472.842611
 1.00000   5.842954   52.830491   12.371656
744.036078  14.832096  593.029148

 COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -3.585799 -370.146255   -27.509511
-430.641385 -128.107765  -1894.883
 0.25000  -3.585799 -361.134416   -27.509511
-441.388699  -94.445810  -1605.429
 0.50000  -3.585799 -352.117010   -27.509511
-453.647455  -61.152592  -1500.418
 0.75000  -3.585799 -343.399955   -27.509511
-466.282325  -31.162109  -1457.052
 1.00000  -3.585799 -335.311679   -27.509511
-484.005126  -17.441393  -1417.332
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              1261

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.976822   36.044200   19.198765
592.160416  65.104826  641.663097
 0.25000   5.976822   49.505477   19.198765
592.160416  43.467036  627.322879
 0.50000   5.976822   68.308704   19.198765
592.160416  25.714044  639.295287
 0.75000   5.976822   89.096435   19.198765
592.160416  15.171560  744.480631
 1.00000   5.976822  120.336070   19.198765
592.160416  13.302779  976.364850

 COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.235467 -726.870154   -16.054818
-381.908443  -71.857160  -2799.528
 0.25000  -5.235467 -686.284568   -16.054818
-381.908443  -52.705956  -2356.747
 0.50000  -5.235467 -645.684172   -16.054818
-381.908443  -34.473840  -2184.753
 0.75000  -5.235467 -606.503309   -16.054818
-381.908443  -27.594805  -2072.346
 1.00000  -5.235467 -570.102642   -16.054818
-381.908443  -33.056601  -1968.295

 COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.993616   33.464634   43.368268
665.234636 179.810327  716.200784
 0.25000   6.993616   43.599114   43.368268
665.234636 127.563920  700.007683
 0.50000   6.993616   59.824550   43.368268
665.234636  78.664400  705.287396
 0.75000   6.993616   76.856573   43.368268
665.234636  36.118991  814.341342
 1.00000   6.993616  102.375473   43.368268
665.234636  14.176161  1015.231

 COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.642919 -728.479906   -16.950816
-622.468152  -75.016523  -3088.413
 0.25000  -8.642919 -695.227687   -16.950816
-622.468152  -54.671915  -2605.101
 0.50000  -8.642919 -661.964517   -16.950816
-622.468152  -35.118991  -2418.342
 0.75000  -8.642919 -629.862851   -16.950816
-622.468152  -29.337619  -2296.327
 1.00000  -8.642919 -600.040024   -16.950816
-622.468152  -38.107279  -2185.578

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   9.184937   36.444765    8.867779
412.957290  39.216139  348.955236
 0.25000   9.184937   36.707486    8.867779
413.827392  28.267193  340.721651
 0.50000   9.184937   37.027930    8.867779
414.792704  17.383175  336.532936
 0.75000   9.184937   37.390974    8.867779
415.858857   6.620706  338.094439
 1.00000   9.184937   37.776524    8.867779
417.033741  24.786625  350.470059

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.010190 -159.794773   -35.720902
-681.698306 -157.719231  -1992.883
 0.25000  -4.010190 -159.183809   -35.720902
-680.437421 -114.257812  -1839.962
 0.50000  -4.010190 -158.567389   -35.720902
-679.223621  -71.270245  -1692.221
 0.75000  -4.010190 -157.965125   -35.720902
-678.054906  -28.565745  -1552.512
 1.00000  -4.010190 -157.397684   -35.720902
-676.929847  -11.055877  -1426.064
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              1262

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  12.464658   38.544533   51.903260
621.634812 228.436057  617.904558
 0.25000  12.464658   40.729112   51.903260
627.836500 164.494298  610.521938
 0.50000  12.464658   43.394142   51.903260
634.703783 101.030701  618.212839
 0.75000  12.464658   46.413662   51.903260
642.291138  39.695931  661.406251
 1.00000  12.464658   49.622717   51.903260
650.642395  26.377899  766.316633

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.986707 -444.353831   -35.730615
-1127.026 -159.611266  -4348.301
 0.25000  -8.986707 -439.254356   -35.730615
-1118.025 -115.818375  -3905.196
 0.50000  -8.986707 -434.111165   -35.730615
-1109.374  -72.580433  -3478.189
 0.75000  -8.986707 -429.085938   -35.730615
-1101.046  -35.480428  -3088.086
 1.00000  -8.986707 -424.351271   -35.730615
-1093.035  -39.238188  -2735.806

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.002302   39.555592   46.025288
548.376897 178.062435  840.895527
 0.25000   13.002302   52.097585   46.025288
543.234662 123.016281  853.663500
 0.50000   13.002302   70.085074   46.025288
538.046513  71.929042  953.424808
 0.75000   13.002302   90.513350   46.025288
532.925669  28.908390  1077.762
 1.00000   13.002302  112.273149   46.025288
527.991189  28.573869  1239.580

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.141988 -859.809765   -35.659527
-920.690233 -158.019038  -6692.127
 0.25000  -9.141988 -824.651962   -35.659527
-923.779119 -115.506351  -5896.559
 0.50000  -9.141988 -789.176719   -35.659527
-928.402886  -75.255527  -5163.751
 0.75000  -9.141988 -754.565103   -35.659527
-933.717077  -48.706647  -4500.147
 1.00000  -9.141988 -721.931846   -35.659527
-939.661864  -59.205024  -3900.929

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.277750   36.857613   43.421970
792.172710 167.526472  912.271639
 0.25000   13.277750   47.221788   43.421970
788.614659 115.241851  918.295880
 0.50000   13.277750   62.024553   43.421970
784.994012  67.121787  995.980816
 0.75000   13.277750   78.835346   43.421970
781.406107  27.299566  1112.417
 1.00000   13.277750   96.705895   43.421970
777.946817  29.341153  1299.224

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.192967 -890.431364   -47.838469
-955.345027 -218.868288  -7241.014
 0.25000  -9.192967 -861.506091   -47.838469
-956.019228 -160.917897  -6388.081
 0.50000  -9.192967 -832.319517   -47.838469
-959.303359 -105.304312  -5588.995
 0.75000  -9.192967 -803.843400   -47.838469
-963.099990  -62.042800  -4863.545
 1.00000  -9.192967 -776.994044   -47.838469
-967.354843  -58.234154  -4214.835
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              1263

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.757062   6.629124   48.543031
160.520593 209.802937  316.150224
 0.25000   3.757062   14.867639   48.543031
176.140271 149.880227  330.468777
 0.50000   3.757062   24.893205   48.543031
193.366997  90.569033  387.322577
 0.75000   3.757062   36.286177   48.543031
212.359606  34.955998  461.400983
 1.00000   3.757062   48.404613   48.543031
233.236605   2.500117  562.727013

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.845132 -429.818924   -4.334514
-419.692783  -19.883884  -2940.740
 0.25000  -5.845132 -410.476212   -4.334514
-396.985608  -14.750767  -2546.081
 0.50000  -5.845132 -390.926070   -4.334514
-375.181660  -10.239370  -2318.258
 0.75000  -5.845132 -371.843658   -4.334514
-354.226462  -11.488909  -1861.351
 1.00000  -5.845132 -353.867248   -4.334514
-334.063132  -35.353972  -1569.378

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.641965   11.852431   41.739387
241.387195  155.265367  614.943074
 0.25000   6.641965   26.189546   41.739387
241.387195  104.797333  637.013364
 0.50000   6.641965   46.303173   41.739387
241.387195   59.493824  752.697455
 0.75000   6.641965   69.142908   41.739387
241.387195   25.205114  903.641632
 1.00000   6.641965   93.407119   41.739387
241.387195   10.359059  1109.259

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.849158 -859.732720   -20.532516
-294.415582  -96.844874  -5792.777
 0.25000  -6.849158 -820.474803   -20.532516
-294.415582  -71.797921  -5002.134
 0.50000  -6.849158 -780.861388   -20.532516
-294.415582  -49.948433  -4278.547
 0.75000  -6.849158 -742.210788   -20.532516
-294.415582  -42.486937  -3635.135
 1.00000  -6.849158 -705.758078   -20.532516
-294.415582  -56.256673  -3055.275

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.715962   19.788007   53.681260
516.300682  212.233176  827.088598
 0.25000   10.715962   32.949032   53.681260
516.408144  146.984278  841.778727
 0.50000   10.715962   51.317589   53.681260
516.478527   86.058971  941.330611
 0.75000   10.715962   72.156763   53.681260
516.493059   35.970947  1078.574
 1.00000   10.715962   94.328723   53.681260
516.493059   19.487546  1275.266

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.809882 -926.971724   -30.616079
-780.737239 -143.722848  -7025.838
 0.25000  -8.809882 -891.133407   -30.616079
-780.219857 -106.185711  -6143.853
 0.50000  -8.809882 -854.970291   -30.616079
-779.665395  -71.309552  -5326.096
 0.75000  -8.809882 -819.685588   -30.616079
```

```
-779.055083  -52.335656   -4606.553
 1.00000    -8.809882  -786.406121   -30.616079
-778.430239  -64.468117   -3972.791
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1264

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    9.856459    22.880755    51.346020
807.229559  203.959363   907.756596
 0.25000    9.856459    33.951771    51.346020
807.229559  141.374983   915.661987
 0.50000    9.856459    49.483831    51.346020
807.229559   82.770768   995.425041
 0.75000    9.856459    67.120044    51.346020
807.229559   34.073687   1111.108
 1.00000    9.856459    85.856691    51.346020
807.229559   20.708195   1286.323

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -8.845281  -895.619004   -31.327635
-862.534851  -145.566175   -7291.769
 0.25000   -8.845281  -865.304406   -31.327635
-862.534851  -107.256958   -6423.473
 0.50000   -8.845281  -834.715135   -31.327635
-862.534851   -71.494244   -5610.427
 0.75000   -8.845281  -804.869424   -31.327635
-862.534851   -49.112395   -4886.563
 1.00000   -8.845281  -776.720907   -31.327635
-862.534851   -60.058297   -4250.947

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    1.974069    36.650808    16.028448
625.892277   75.010069   338.899029
 0.25000    1.974069    36.832065    16.028448
624.318222   55.226609   331.212511
 0.50000    1.974069    37.223562    16.028448
622.793669   35.554313   328.448027
 0.75000    1.974069    37.668931    16.028448
621.321479   17.864905   332.632634
 1.00000    1.974069    38.145212    16.028448
619.903346    8.881416   349.089937

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -3.535947  -162.471276   -3.446243
-354.127288  -15.701203   -1958.744
 0.25000   -3.535947  -161.691122   -3.446243
-355.227255   -11.455263   -1807.390
 0.50000   -3.535947  -160.902495   -3.446243
-356.460268   -7.240678   -1662.326
 0.75000   -3.535947  -160.132782   -3.446243
-357.830616   -3.960800   -1527.384
 1.00000   -3.535947  -159.409275   -3.446243
-359.343777   -9.972104   -1407.302

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    5.910237    37.726747    20.348581
 1001.569   85.609129   595.213300
 0.25000    5.910237    39.512356    20.348581
989.654242   61.526165   586.967716
 0.50000    5.910237    43.056632    20.348581
978.107819   39.154786   600.260246
 0.75000    5.910237    47.086691    20.348581
966.961825   20.044462   651.649216
 1.00000    5.910237    51.394377    20.348581
956.211279   17.221249   767.603103

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -5.786566  -463.822104   -31.909504
-537.501568  -152.546358   -4292.741
 0.25000   -5.786566  -456.779536   -31.909504
-545.834527  -113.938062   -3835.582
 0.50000   -5.786566  -449.667555   -31.909504
-555.186273   -76.393621   -3401.380
 0.75000   -5.786566  -442.726759   -31.909504
-565.596466   -41.11944   -3000.271
 1.00000   -5.786566  -436.196789   -31.909504
-577.073910   -24.990544   -2671.847
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1265

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    6.641120    38.865566    33.886192
797.505269  125.559032   810.882735
 0.25000    6.641120    52.147829    33.886192
800.039821   85.426207   826.189067
 0.50000    6.641120    70.338599    33.886192
802.662136   48.555861   925.960631
 0.75000    6.641120    90.972839    33.886192
805.374955   23.367574   1052.270
 1.00000    6.641120   112.921711    33.886192
808.287176   16.965308   1218.376

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -7.274741  -854.254220   -21.888386
-514.923758  -100.500505   -6520.642
 0.25000   -7.274741  -818.807115   -21.888386
-510.695185   -74.155302   -5736.790
 0.50000   -7.274741  -783.037415   -21.888386
-506.838243   -50.062126   -5014.639
 0.75000   -7.274741  -748.139686   -21.888386
-503.236490   -39.851673   -4364.792
 1.00000   -7.274741  -715.217943   -21.888386
-500.241195   -50.229959   -3781.665

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    8.811783    36.707676    60.672668
880.711215  248.862975   904.592723
 0.25000    8.811783    47.578557    60.672668
881.840189  175.382675   911.954991
 0.50000    8.811783    62.531350    60.672668
883.421890  105.032788   989.768260
 0.75000    8.811783    79.493280    60.672668
885.017062   45.156756   1106.586
 1.00000    8.811783    97.536979    60.672668
886.709307   18.597572   1288.756

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -9.967080  -883.928238   -24.319798
-829.233714  -112.643607   -7196.006
 0.25000   -9.967080  -854.782112   -24.319798
-826.496784   -83.402426   -6334.027
 0.50000   -9.967080  -825.370900   -24.319798
-824.041501   -56.387350   -5552.961
 0.75000   -9.967080  -796.676817   -24.319798
-821.948168   -43.185604   -4841.661
 1.00000   -9.967080  -769.608488   -24.319798
-820.715727   -61.333149   -4216.161

 COMB      DB ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   10.516910    38.016247    43.368268
804.900311  179.993971   721.692597
 0.25000   10.516910    49.907192    43.368268
786.518289  131.979765   705.270282
 0.50000   10.516910    69.557544    43.368268
772.813197   83.996202   710.206118
 0.75000   10.516910    90.184675    43.368268
758.691672   36.156781   791.376992
 1.00000   10.516910   120.979001    43.368268
744.036078   21.475370   1027.842

 COMB      DB ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -8.642919  -770.011450   -32.523265
-870.208376  -143.945171   -3123.855
 0.25000   -8.642919  -730.226443   -32.523265
-856.198051  -103.830921   -2634.175
 0.50000   -8.642919  -690.027092   -32.523265
-845.961523   -63.939669   -2437.494
 0.75000   -8.642919  -651.425636   -32.523265
-835.466376   -39.371377   -2312.995
 1.00000   -8.642919  -615.563792   -32.523265
-824.075498   -39.352003   -2194.750
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1266

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   13.277750    39.555592    60.672668
 1001.569  248.862975   912.271639
 0.25000   13.277750    52.147829    60.672668
989.654242  175.382675   918.295880
 0.50000   13.277750    70.338599    60.672668
978.107819  105.032788   995.980616
 0.75000   13.277750    90.972839    60.672668
966.961825   45.156756   1112.417
 1.00000   13.277750   112.921711    60.672668
956.211279   29.341153   1299.224

 COMB      DL ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -9.967080  -926.971724   -47.838469
-1127.026  -218.868288   -7291.769
 0.25000   -9.967080  -891.133407   -47.838469
-1118.025  -160.917897   -6423.473
 0.50000   -9.967080  -854.970291   -47.838469
-1101.046   -62.042800   -4886.563
 1.00000   -9.967080  -786.406121   -47.838469
-1093.035   -64.468117   -4250.947

 COMB      CAR ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   13.277750    39.555592    60.672668
 1001.569  248.862975   912.271639
 0.25000   13.277750    52.147829    60.672668
989.654242  175.382675   918.295880
 0.50000   13.277750    70.338599    60.672668
978.107819  105.032788   995.980616
 0.75000   13.277750    90.972839    60.672668
966.961825   45.156756   1112.417
 1.00000   13.277750   120.979001    60.672668
956.211279   29.341153   1299.224

 COMB      CAR ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -9.967080  -926.971724   -47.838469
-1127.026  -218.868288   -7291.769
 0.25000   -9.967080  -891.133407   -47.838469
-1118.025  -160.917897   -6423.473
 0.50000   -9.967080  -854.970291   -47.838469
-1109.374  -105.304312   -5610.427
 0.75000   -9.967080  -819.685588   -47.838469
-1101.046   -62.042800   -4886.563
 1.00000   -9.967080  -786.406121   -47.838469
-1093.035   -64.468117   -4250.947

 COMB  DESIGN ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   13.277750    39.555592    60.672668
 1001.569  248.862975   912.271639
 0.25000   13.277750    52.147829    60.672668
989.654242  175.382675   918.295880
 0.50000   13.277750    70.338599    60.672668
978.107819  105.032788   995.980616
 0.75000   13.277750    90.972839    60.672668
966.961825   45.156756   1112.417
 1.00000   13.277750   120.979001    60.672668
956.211279   29.341153   1299.224

 COMB  DESIGN ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -9.967080  -926.971724   -47.838469
-1127.026  -218.868288   -7291.769
 0.25000   -9.967080  -891.133407   -47.838469
-1118.025  -160.917897   -6423.473
 0.50000   -9.967080  -854.970291   -47.838469
-1109.374  -105.304312   -5610.427
 0.75000   -9.967080  -819.685588   -47.838469
-1101.046   -62.042800   -4886.563
 1.00000   -9.967080  -786.406121   -47.838469
-1093.035   -64.468117   -4250.947
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1267

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      97 ================== LENGTH
=    4.957571

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    6.023799     9.340225     1.352474
155.517403   17.652257   251.655033
 0.25000    6.023799     9.815868     1.352474
156.628912   19.470456   248.938815
 0.50000    6.023799    10.351877     1.352474
157.764320   21.297394   278.508282
 0.75000    6.023799    10.941563     1.352474
158.936687   23.124537   389.376986
 1.00000    6.023799    11.584591     1.352474
160.561493   24.951810   511.682411

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -1.917300  -132.100931   -1.836489
-558.661406   -5.013856  -764.463906
 0.25000   -1.917300  -131.450643   -1.836489
-557.045037   -4.175076  -752.201010
 0.50000   -1.917300  -130.822767   -1.836489
-555.858670   -4.496562  -739.956231
 0.75000   -1.917300  -130.234168   -1.836489
-554.662172   -6.142222  -727.828249
 1.00000   -1.917300  -129.702168   -1.836489
-553.446609   -7.795931  -715.987313

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    7.917197    26.919383     6.247698
252.620827   18.224008   584.096835
 0.25000    7.917197    31.677084     6.247698
262.600603   20.360544   636.010867
 0.50000    7.917197    37.038851     6.247698
272.793028   22.545543   763.343332
 0.75000    7.917197    42.935069     6.247698
283.316544   24.806258   991.138120
 1.00000    7.917197    49.364718     6.247698
297.911885   27.137867   1246.201

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -7.695462  -314.349032   -2.213102
-943.482717  -18.267142   -1438.280
 0.25000   -7.695462  -307.847430   -2.213102
-928.959247  -22.482407   -1399.357
 0.50000   -7.695462  -301.567666   -2.213102
-918.302663  -28.985066   -1360.671
 0.75000   -7.695462  -295.680369   -2.213102
-907.553398  -36.046883   -1322.309
 1.00000   -7.695462  -290.359051   -2.213102
-896.632576  -43.280763   -1284.430

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    8.811368    66.988168     4.437946
201.247771   19.852346   980.588833
 0.25000    8.811368    94.740193     4.437946
201.247771   21.870837   1205.434
 0.50000    8.811368   126.008371     4.437946
201.247771   24.106240   1455.973
 0.75000    8.811368   160.259162     4.437946
201.247771   26.749097   1750.810
 1.00000    8.811368   197.613692     4.437946
201.247771   29.881612   2032.026

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -6.942324  -608.237270   -3.936957
-735.385063   -30.803688   -1994.550
 0.25000   -6.942324  -570.498888   -3.936957
-735.385063   -33.391582   -1926.545
 0.50000   -6.942324  -533.929620   -3.936957
-735.385063   -37.415905   -1859.581
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1268

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P             V2             V3
        T          M2             M3
 0.75000   -6.942324  -499.625332   -3.936957
-737.463427   -41.928463   -1793.520
 1.00000   -6.942324  -468.614176   -3.936957
-739.915488   -46.701794   -1728.421

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   10.474542    62.778662     4.046973
462.869321   20.611571   1023.094
 0.25000   10.474542    85.602599     4.046973
462.869321   25.125656   1235.449
 0.50000   10.474542   111.314048     4.046973
462.869321   29.921564   1513.214
 0.75000   10.474542   139.478864     4.046973
462.869321   35.091073   1851.723
 1.00000   10.474542   170.197300     4.046973
462.869321   40.729976   2200.101

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -6.750800  -615.582320   -5.758193
-694.234308  -33.670769   -2119.691
 0.25000   -6.750800  -584.549063   -5.758193
-694.234308  -33.670441   -2119.691
 0.50000   -6.750800  -554.477584   -5.758193
-694.234308  -37.296204   -2046.923
 0.75000   -6.750800  -526.269213   -5.758193
-694.234308  -41.386461   -1974.924
 1.00000   -6.750800  -500.767169   -5.758193
-694.234308  -45.713741   -1903.840

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    2.297176    37.843756     5.118514
 81.492064   1.277941   474.936312
 0.25000    2.297176    52.960839     5.118514
 99.807418   1.949947   611.589132
 0.50000    2.297176    69.994331     5.118514
118.484194   2.631170   739.597985
 0.75000    2.297176    88.696508     5.118514
137.560861   3.312462   864.357107
 1.00000    2.297176   109.091450     5.118514
164.634243   4.006076   981.424651

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -6.595826  -294.646331   -0.717161
-367.139014  -18.225615   -799.982353
 0.25000   -6.595826  -274.030651   -0.717161
-340.359976  -21.649897   -764.459897
 0.50000   -6.595826  -254.092138   -0.717161
-320.720650  -25.165872   -726.553311
 0.75000   -6.595826  -235.395363   -0.717161
-300.911048  -30.477446   -695.009611
 1.00000   -6.595826  -218.494408   -0.717161
-280.786259  -36.461918   -660.980825

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    5.875160    73.621582     3.552508
171.867392   7.937746   933.546185
 0.25000    5.875160   103.926442     3.552508
171.867392   10.775938   1206.161
 0.50000    5.875160   138.063722     3.552508
171.867392   13.899400   1457.532
 0.75000    5.875160   175.458641     3.552508
171.867392   17.403564   1698.306
 1.00000    5.875160   216.244541     3.552508
171.867392   21.457905   1921.273

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -6.490770  -578.580533   -4.540237
-205.999090   -31.745842   -1544.125
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1269

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P             V2             V3
        T          M2             M3
 0.25000   -6.490770  -537.376935   -4.540237
-205.999090   -34.348560   -1475.299
 0.50000   -6.490770  -497.450452   -4.540237
-205.999090   -37.634747   -1407.636
 0.75000   -6.490770  -459.997858   -4.540237
-205.999090   -41.330371   -1340.778
 1.00000   -6.490770  -426.137913   -4.540237
-205.999090   -45.184615   -1274.988

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    8.325635    69.942659     5.127048
270.640831   13.622828   1027.899
 0.25000    8.325635    97.523771     5.127048
270.640831   16.598338   1266.760
 0.50000    8.325635   128.588499     5.127048
270.640831   20.081841   1567.781
 0.75000    8.325635   162.618479     5.127048
270.640831   23.953306   1879.213
 1.00000    8.325635   199.735718     5.127048
270.640831   28.488690   2188.220

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -7.201196  -631.497688   -4.908550
-599.830972   -35.485490   -2019.163
 0.25000   -7.201196  -594.001180   -4.908550
-599.830972   -40.273393   -1942.412
 0.50000   -7.201196  -557.667281   -4.908550
-599.830972   -45.640391   -1866.833
 0.75000   -7.201196  -523.585262   -4.908550
-599.830972   -51.359924   -1791.985
 1.00000   -7.201196  -492.770922   -4.908550
-599.830972   -57.222354   -1718.075

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    7.808576    61.213767     4.787770
541.576101   14.133689   1006.916
 0.25000    7.808576    84.448851     4.787770
541.576101   17.163857   1206.006
 0.50000    7.808576   110.622295     4.787770
541.576101   20.701654   1524.358
 0.75000    7.808576   139.293409     4.787770
541.576101   24.679082   1863.158
 1.00000    7.808576   170.564427     4.787770
541.576101   29.158394   2211.432

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -6.976166  -617.918604   -4.779866
-577.128305   -32.907266   -2194.683
 0.25000   -6.976166  -586.327332   -4.779866
-577.128305   -37.575853   -2119.573
 0.50000   -6.976166  -555.715238   -4.779866
-577.128305   -42.709443   -2045.544
 0.75000   -6.976166  -526.999905   -4.779866
-577.128305   -48.129862   -1972.126
 1.00000   -6.976166  -501.039096   -4.779866
-577.128305   -53.665878   -1899.469

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    1.474484     8.772473     2.205376
523.248570    7.000984   248.843408
 0.25000    1.474484     9.342243     2.205376
521.223653    6.118277   247.120391
 0.50000    1.474484     9.986875     2.205376
519.734109    5.249024   300.912327
 0.75000    1.474484    10.690078     2.205376
518.232993    4.405108   416.553283
 1.00000    1.474484    11.457052     2.205376
516.708919    3.600006   544.821530
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 1270

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -2.048576  -136.143569   -0.477588
-127.306627   -5.404073   -765.318503
 0.25000   -2.048576  -135.369472   -0.477588
-128.715314   -6.917245   -753.420246
 0.50000   -2.048576  -134.616675   -0.477588
-130.159075   -8.651145   -741.541118
 0.75000   -2.048576  -133.910076   -0.477588
-131.651342   -10.797874   -729.963467
 1.00000   -2.048576  -133.273995   -0.477588
-133.694029   -13.242279   -718.500397

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    5.815459    27.691414     2.345745
871.402309   13.845418   592.343169
 0.25000    5.815459    33.785375     2.345745
852.603719   17.638624   656.086422
 0.50000    5.815459    40.676082     2.345745
838.772157   21.672285   811.388101
 0.75000    5.815459    48.197161     2.345745
824.834637   25.797988   1040.546
 1.00000    5.815459    56.400183     2.345745
810.684466   30.032622   1294.651

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -3.555900  -326.102102   -4.176514
-223.098133   -14.012346   -1415.834
 0.25000   -3.555900  -317.821789   -4.176514
-236.187827   -14.978052   -1377.714
 0.50000   -3.555900  -309.773206   -4.176514
-249.606249   -16.256207   -1339.839
 0.75000   -3.555900  -302.219194   -4.176514
-263.475860   -18.344465   -1302.520
 1.00000   -3.555900  -295.415126   -4.176514
-282.444780   -20.834629   -1265.605

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000    5.650146    66.833628     2.636668
648.236334   12.973542   976.017304
 0.25000    5.650146    94.835895     2.636668
648.236334   14.540366   1204.835
 0.50000    5.650146   126.371961     2.636668
648.236334   16.462375   1477.119
 0.75000    5.650146   160.923460     2.636668
648.236334   18.710667   1772.963
 1.00000    5.650146   198.600838     2.636668
648.236334   21.589248   2055.415

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P             V2             V3
        T          M2             M3
 0.00000   -5.019469  -609.895239   -4.089559
-200.161403   -28.142464   -1967.042
 0.25000   -5.019469  -571.828789   -4.089559
-200.161403   -29.046105   -1900.249
 0.50000   -5.019469  -534.942892   -4.089559
-200.161403   -30.409125   -1834.492
 0.75000   -5.019469  -500.343496   -4.089559
```

```
-200.161403  -32.373147   -1769.798
 1.00000     -5.019469  -469.060244     -4.089559
-200.161403  -35.007292   -1705.949

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.729967    62.352836    6.243153
627.176851   13.152274    1015.146
 0.25000    6.729967    85.282745    6.243153
627.176851   15.050204    1219.227
 0.50000    6.729967   111.111763    6.243153
627.176851   17.308802    1514.477
 0.75000    6.729967   139.405707    6.243153
627.176851   19.898050    1853.145
 1.00000    6.729967   170.265565    6.243153
627.176851   22.974984    2201.382
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  1271

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.576157  -615.140477    -4.018526
-492.914860  -33.650883   -2185.068
 0.25000   -8.576157  -583.964704    -4.018526
-492.914860  -39.193768   -2112.072
 0.50000   -8.576157  -553.755292    -4.018526
-492.914860  -45.251329   -2039.953
 0.75000   -8.576157  -525.417778    -4.018526
-492.914860  -51.854621   -1968.714
 1.00000   -8.576157  -499.798297    -4.018526
-492.914860  -59.024154   -1898.272

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.333714    12.453579    2.102670
195.482772   22.865705    351.060893
 0.25000    9.333714    12.788854    2.102670
196.387602   26.945728    374.403728
 0.50000    9.333714    13.170036    2.102670
197.380982   31.358884    430.545098
 0.75000    9.333714    13.582165    2.102670
198.466270   36.019588    522.777834
 1.00000    9.333714    14.007352    2.102670
199.644728   40.868632    640.716219

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.895780  -172.408437    -4.530392
-735.229548   -7.809836   -1425.062
 0.25000   -3.895780  -171.850626    -4.530392
-733.916189   -8.183865   -1274.303
 0.50000   -3.895780  -171.299185    -4.530392
-732.660670   -9.478852   -1145.581
 0.75000   -3.895780  -170.772423    -4.530392
-731.469008  -11.327645   -1041.982
 1.00000   -3.895780  -170.286646    -4.530392
-730.338172  -13.364471   -966.398147

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.483825    33.994375    7.778681
318.166663   23.193560    767.301347
 0.25000   12.483825    36.782736    7.778681
324.600183   27.679142    819.935998
 0.50000   12.483825    39.953001    7.778681
331.670864   32.512767    939.371817
 0.75000   12.483825    43.380704    7.778681
339.391305   37.591414    1124.265
 1.00000   12.483825    46.917084    7.778681
347.777138   42.877575    1358.709

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.950710  -385.929754    -4.944721
-1173.227   -33.605785   -2734.218
 0.25000   -8.950710  -381.289064    -4.944721
-1163.850   -40.691456   -2415.656
 0.50000   -8.950710  -376.701719    -4.944721
-1154.908   -48.641431   -2141.252
 0.75000   -8.950710  -372.319282    -4.944721
-1146.406   -57.225544   -1913.431
 1.00000   -8.950710  -368.277013    -4.944721
-1138.327   -66.104084   -1737.552

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.833158    72.132110    6.211093
284.787464   26.465794    1240.335
 0.25000   12.833158    90.930450    6.211093
279.540010   31.183797    1392.457
 0.50000   12.833158   112.313599    6.211093
274.614259   36.303814    1590.772
 0.75000   12.833158   135.439247    6.211093
270.017805   41.935997    1827.156
 1.00000   12.833158   159.299432    6.211093
265.761277   48.097740    2093.608
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  1272

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.897699  -684.094085    -7.011544
-959.021822  -52.750397   -3899.593
 0.25000   -8.897699  -652.720018    -7.011544
-963.521599  -56.576869   -3418.971
 0.50000   -8.897699  -621.751039    -7.011544
-968.427253  -61.386950   -3002.479
 0.75000   -8.897699  -592.139123    -7.011544
-973.738489  -66.680956   -2650.057
 1.00000   -8.897699  -564.828771    -7.011544
-979.450184  -72.417135   -2370.393

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.169548    68.518472    5.675275
583.072605   28.105404    1299.382
 0.25000   13.169548    83.989476    5.675275
579.452816   34.673908    1449.283
 0.50000   13.169548   101.585956    5.675275
576.065632   41.958158    1663.229
 0.75000   13.169548   120.617086    5.675275
572.917769   49.862719    1937.187
 1.00000   13.169548   140.252643    5.675275
570.014255   58.304912    2255.765

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.957990  -705.635292    -8.743222
-896.064432  -52.307293   -4214.238
 0.25000   -8.957990  -679.816792    -8.743222
-899.279529  -55.335615   -3695.682
 0.50000   -8.957990  -654.331585    -8.743222
-902.779823  -59.321597   -3247.304
 0.75000   -8.957990  -629.963819    -8.743222
-906.562771  -63.960500   -2869.762
 1.00000   -8.957990  -607.488386    -8.743222
-910.628668  -69.060557   -2571.821

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.533678    38.786214    5.597308
105.825338   2.139629    563.020133
 0.25000    3.533678    49.304377    5.597308
121.931602   3.048074    636.523395
 0.50000    3.533678    61.263908    5.597308
139.633383   3.987291    719.242573
 0.75000    3.533678    74.195098    5.597308
158.975606   4.943502    812.639001
 1.00000    3.533678    87.536772    5.597308
179.978029   5.909800    912.910441

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.889788  -316.394961    -1.065305
-408.312839  -33.283391   -1568.911
 0.25000   -5.889788  -298.872024    -1.065305
-384.631381  -38.641082   -1361.008
 0.50000   -5.889788  -281.559925    -1.065305
-362.005436  -44.173982   -1179.830
 0.75000   -5.889788  -265.022694    -1.065305
-340.488707  -50.260236   -1023.127
 1.00000   -5.889788  -249.765562    -1.065305
-320.047723  -56.800293   -894.843491

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.314866    75.791969    4.088438
204.158657   11.192858    1109.219
 0.25000    6.314866    96.819848    4.088438
204.158657   14.398172    1257.274
 0.50000    6.314866   120.732481    4.088438
204.158657   18.185657    1422.157
 0.75000    6.314866   146.589943    4.088438
204.158657   22.577918    1606.788
 1.00000    6.314866   173.270269    4.088438
204.158657   27.517835    1803.877
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  1273

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.626959  -624.063133    -5.670455
-251.749342  -53.195699   -3055.185
 0.25000   -6.626959  -588.984826    -5.670455
-251.749342  -55.223485   -2648.220
 0.50000   -6.626959  -554.359191    -5.670455
-251.749342  -57.933346   -2293.850
 0.75000   -6.626959  -521.252676    -5.670455
-251.749342  -61.105528   -1987.944
 1.00000   -6.626959  -490.710107    -5.670455
-251.749342  -64.569299   -1738.268

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.501633    73.309291    6.490894
329.012819   18.127030    1275.674
 0.25000   10.501633    92.513707    6.490894
329.012819   22.483153    1437.217
 0.50000   10.501633   114.350915    6.490894
329.012819   27.543657    1645.597
 0.75000   10.501633   137.964963    6.490894
329.012819   33.288989    1893.306
 1.00000   10.501633   162.329555    6.490894
329.012819   39.619873    2169.811

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.642178  -708.699614    -7.017634
-767.649707  -58.747780   -3972.557
 0.25000   -8.642178  -676.666815    -7.017634
-767.024874  -63.309811   -3498.243
 0.50000   -8.642178  -645.054046    -7.017634
-766.400041  -68.620318   -3087.257
 0.75000   -8.642178  -614.815000    -7.017634
-765.775208  -74.410220   -2731.222
 1.00000   -8.642178  -586.922463    -7.017634
-765.150375  -80.555045   -2456.630

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.672967    65.113495    6.381985
676.451894   19.850679    1286.250
 0.25000    9.672967    81.351070    6.381985
676.451894   23.966244    1448.068
 0.50000    9.672967    99.816231    6.381985
676.451894   28.662916    1673.018
 0.75000    9.672967   119.783175    6.381985
676.451894   33.949018    1948.683
 1.00000    9.672967   140.385528    6.381985
676.451894   39.745850    2262.820

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.707929  -710.609377    -6.542636
-733.465134  -54.625505   -4251.376
 0.25000   -8.707929  -683.522163    -6.542636
-733.465134  -59.347254   -3750.325
 0.50000   -8.707929  -656.784500    -6.542636
-733.465134  -64.687987   -3317.700
 0.75000   -8.707929  -631.219890    -6.542636
-733.465134  -70.434618   -2953.623
 1.00000   -8.707929  -607.635141    -6.542636
-733.465134  -76.485179   -2666.179

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    1.857952    11.886080    3.794369
675.834847    9.499645   348.413874
 0.25000    1.857952    12.293107    3.794369
674.199342    8.305589   374.464153
 0.50000    1.857952    12.758533    3.794369
672.644853    7.347895   440.634525
 0.75000    1.857952    13.261903    3.794369
671.169208    6.560243   538.329417
 1.00000    1.857952    13.781415    3.794369
669.770969    5.903030   661.659931
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  1274

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.520709  -175.513043    -0.642676
-157.635802   -9.587111   -1408.320
 0.25000   -3.520709  -174.828436    -0.642676
-158.798067  -12.165328   -1258.058
 0.50000   -3.520709  -174.152731    -0.642676
-160.073269  -15.207407   -1130.948
 0.75000   -3.520709  -173.506289    -0.642676
-161.465845  -18.648887   -1029.737
 1.00000   -3.520709  -172.913038    -0.642676
-162.971542  -22.248293   -959.191617

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.808846    34.089910    3.911023
 1050.608   18.578363    766.532574
 0.25000    5.808846    37.777999    3.911023
 1038.263   21.710716    827.443929
 0.50000    5.808846    41.991327    3.911023
 1026.481   25.842311    958.600100
 0.75000    5.808846    46.548056    3.911023
 1015.309   30.648948    1147.886
 1.00000    5.808846    51.250811    3.911023
 1004.748   35.847900    1384.254

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.656868  -392.517179    -5.637434
-271.653381  -23.846205   -2673.285
 0.25000   -5.656868  -386.321336    -5.637434
-280.474626  -24.776875   -2363.417
 0.50000   -5.656868  -380.207386    -5.637434
-290.176909  -26.835589   -2098.545
 0.75000   -5.656868  -374.359723    -5.637434
-300.736303  -29.658373   -1880.233
 1.00000   -5.656868  -368.985161    -5.637434
-312.161917  -32.924803   -1715.625

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.297197    71.021444    4.345958
836.497448   18.609518    1217.510
 0.25000    6.297197    90.043850    4.345958
837.782245   20.276262    1372.321
 0.50000    6.297197   111.669330    4.345958
840.355506   22.697231    1576.775
 0.75000    6.297197   135.053403    4.345958
843.204458   25.793480    1813.336
 1.00000    6.297197   159.181408    4.345958
846.347548   29.518223    2078.022

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.023429  -676.781426    -5.268503
-283.233247  -47.481097   -3782.812
 0.25000   -7.023429  -645.062893    -5.268503
-278.729318  -48.621209   -3313.351
 0.50000   -7.023429  -613.758798    -5.268503
-274.360756  -50.709178   -2907.936
 0.75000   -7.023429  -583.819453    -5.268503
-270.127357  -53.491005   -2566.177
 1.00000   -7.023429  -556.194310    -5.268503
-266.025599  -56.687039   -2298.496

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.517060    67.759893    8.215729
808.883263   18.581863    1288.403
 0.25000    8.517060    83.396647    8.215729
809.087157   21.065990    1439.986
 0.50000    8.517060   101.172837    8.215729
810.319985   24.254421    1659.471
 0.75000    8.517060   120.394627    8.215729
812.016692   28.045043    1934.032
 1.00000    8.517060   140.227965    8.215729
813.898929   32.383233    2252.077
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  1275

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.844233  -704.314620    -5.578046
-642.649466  -56.077532   -4218.815
 0.25000   -9.844233  -678.241227    -5.578046
-639.719473  -63.251985   -3714.046
 0.50000   -9.844233  -652.508296    -5.578046
-636.863585  -70.432456   -3280.140
 0.75000   -9.844233  -627.897448    -5.578046
-634.082845  -77.613927   -2913.437
 1.00000   -9.844233  -605.190095    -5.578046
-631.368080  -86.392682   -2629.716

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.474542    73.621582    6.247698
871.402309   20.611571    1027.899
 0.25000   10.474542   103.926442    6.247698
852.603719   25.125656    1266.760
 0.50000   10.474542   138.063722    6.247698
838.772157   29.921564    1567.781
 0.75000   10.474542   175.458641    6.247698
824.834637   35.091073    1879.213
 1.00000   10.474542   216.244541    6.247698
810.684466   40.729976    2211.432

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.576157  -631.497688    -5.758193
-943.482717  -35.485490   -2194.683
 0.25000   -8.576157  -594.001180    -5.758193
-928.959247  -40.273393   -2119.691
 0.50000   -8.576157  -557.667281    -5.758193
-918.302663  -45.640391   -2046.923
 0.75000   -8.576157  -526.999905    -5.758193
-907.553398  -51.854621   -1974.924
 1.00000   -8.576157  -501.039096    -5.758193
-896.632576  -59.024154   -1903.840

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.169548    75.791969    8.215729
 1050.608   28.105404    1299.382
 0.25000   13.169548    96.819848    8.215729
 1038.263   34.673908    1449.283
 0.50000   13.169548   120.732481    8.215729
 1026.481   41.958158    1673.018
 0.75000   13.169548   146.589943    8.215729
 1015.309   49.862719    1948.683
 1.00000   13.169548   173.270269    8.215729
 1004.748   58.304912    2262.820

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.844233  -710.609377    -8.743222
-1173.227  -58.747780   -4251.376
 0.25000   -9.844233  -683.522163    -8.743222
-1163.850  -63.309811   -3750.325
 0.50000   -9.844233  -656.784500    -8.743222
-1154.908  -70.432456   -3317.700
 0.75000   -9.844233  -631.219890    -8.743222
-1146.406  -78.231906   -2953.623
 1.00000   -9.844233  -607.635141    -8.743222
-1138.327  -86.392682   -2666.179

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.169548    75.791969    8.215729
 1050.608   28.105404    1299.382
 0.25000   13.169548   103.926442    8.215729
 1038.263   34.673908    1449.283
 0.50000   13.169548   138.063722    8.215729
 1026.481   41.958158    1673.018
 0.75000   13.169548   175.458641    8.215729
 1015.309   49.862719    1948.683
 1.00000   13.169548   216.244541    8.215729
 1004.748   58.304912    2262.820
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  1276

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.844233  -710.609377    -8.743222
-1173.227  -58.747780   -4251.376
 0.25000   -9.844233  -683.522163    -8.743222
-1163.850  -63.309811   -3750.325
 0.50000   -9.844233  -656.784500    -8.743222
-1154.908  -70.432456   -3317.700
 0.75000   -9.844233  -631.219890    -8.743222
-1146.406  -78.231906   -2953.623
 1.00000   -9.844233  -607.635141    -8.743222
-1138.327  -86.392682   -2666.179

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.169548   75.791969    8.215729
 1050.608   28.105404    1299.382
 0.25000   13.169548   103.926442    8.215729
 1038.263   34.673908    1449.283
 0.50000   13.169548   138.063722    8.215729
 1026.481   41.958158    1673.018
 0.75000   13.169548   175.458641    8.215729
 1015.309   49.862719    1948.683
 1.00000   13.169548   216.244541    8.215729
 1004.748   58.304912    2262.820

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.844233  -710.609377    -8.743222
-1173.227  -58.747780   -4251.376
 0.25000   -9.844233  -683.522163    -8.743222
-1163.850  -63.309811   -3750.325
 0.50000   -9.844233  -656.784500    -8.743222
-1154.908  -70.432456   -3317.700
 0.75000   -9.844233  -631.219890    -8.743222
-1146.406  -78.231906   -2953.623
 1.00000   -9.844233  -607.635141    -8.743222
-1138.327  -86.392682   -2666.179

 ELEM      98 ================== LENGTH
=     4.958766

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.188536    6.870747    2.594184
48.445595   24.308442   513.541108
 0.25000    6.188536    7.357641    2.594184
49.626975   21.092460   603.023536
 0.50000    6.188536    7.909797    2.594184
50.818514   17.876498   705.345805
 0.75000    6.188536    8.511303    2.594184
52.028150   14.663638   818.101639
 1.00000    6.188536    9.145539    2.594184
53.687915   11.507094   938.003860

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -1.868950  -122.102312    -0.282469
-539.396757   -5.987232   -716.434923
 0.25000   -1.868950  -121.461085    -0.282469
-537.733279   -5.714511   -696.072169
 0.50000   -1.868950  -120.842031    -0.282469
-536.512243   -6.442295   -675.709414
 0.75000   -1.868950  -120.263450    -0.282469
-535.296093   -7.802350   -655.346659
 1.00000   -1.868950  -119.742849    -0.282469
-534.077972   -9.420049   -635.020354

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.952379    42.229411    2.609841
115.237703   25.888600    1249.028
 0.25000    7.952379    47.097346    2.609841
125.852369   22.653367    1392.683
 0.50000    7.952379    52.617888    2.609841
136.559357   19.418257    1535.605
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  1277

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000    7.952379    58.631673    2.609841
147.430551   16.183623    1773.946
 1.00000    7.952379    64.970516    2.609841
162.354251   13.611085    2003.670

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.794011  -282.835806    -4.098194
-912.901655  -41.859846   -1285.079
 0.25000   -7.794011  -276.426857    -4.098194
-897.940640  -37.379893   -1246.749
 0.50000   -7.794011  -270.237348    -4.098194
-886.956693  -33.302847   -1208.418
 0.75000   -7.794011  -264.452254    -4.098194
-876.017129  -29.672733   -1170.088
 1.00000   -7.794011  -259.246972    -4.098194
-865.063153  -26.558369   -1131.757

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.650306  110.967324    2.874821
77.408522   29.760355    2034.244
 0.25000    8.650306  139.216922    2.874821
77.408522   26.990635    2309.087
 0.50000    8.650306  171.263207    2.874821
77.408522   24.998233    2567.322
 0.75000    8.650306  206.163553    2.874821
77.408522   24.200343    2812.887
 1.00000    8.650306  242.835113    2.874821
77.408522   24.444985    3040.344

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.723105  -549.411486    -6.350075
-706.240300  -43.035642   -1728.931
 0.25000   -6.723105  -512.322388    -6.350075
-707.315056  -37.872124   -1676.084
 0.50000   -6.723105  -476.387144    -6.350075
-709.101778  -33.573975   -1623.236
 0.75000   -6.723105  -442.786336    -6.350075
-710.916567  -30.129576   -1570.389
 1.00000   -6.723105  -412.559585    -6.350075
-713.337889  -27.443730   -1517.554
```

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.420267	105.152440	4.094844
350.272391	40.615350	2201.066	
0.25000	10.420267	128.384987	4.094844
350.272391	36.216514	2469.222	
0.50000	10.420267	154.738063	4.094844
350.272391	32.463419	2740.301	
0.75000	10.420267	183.438616	4.094844
350.272391	29.674593	3025.254	
1.00000	10.420267	213.596089	4.094844
350.272391	27.811413	3314.018	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.548695	-552.379805	-6.125558
-630.555735	-41.299623	-1904.025	
0.25000	-6.548695	-521.879065	-6.125558
-630.555735	-36.208604	-1845.842	
0.50000	-6.548695	-492.327680	-6.125558
-630.555735	-31.848789	-1787.659	
0.75000	-6.548695	-464.696477	-6.125558
-630.555735	-28.233139	-1729.475	
1.00000	-6.548695	-439.838278	-6.125558
-631.116356	-25.285926	-1671.301	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.074928	66.282255	0.177889
69.954602	3.632054	982.139665	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1278

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	2.074928	81.717166	0.177889
89.530256	3.414087	1088.247	
0.50000	2.074928	99.222783	0.177889
109.291761	3.196146	1194.098	
0.75000	2.074928	118.290590	0.177889
129.377035	3.868106	1277.045	
1.00000	2.074928	138.363524	0.177889
157.043033	6.344212	1361.895	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.766802	-263.934630	-4.600154
-359.080466	-36.531107	-661.109434	
0.25000	-6.766802	-243.637067	-4.600154
-331.291350	-31.785173	-639.912190	
0.50000	-6.766802	-224.008813	-4.600154
-310.873400	-27.039264	-618.714946	
0.75000	-6.766802	-205.660192	-4.600154
-290.548057	-22.293400	-597.517702	
1.00000	-6.766802	-189.151436	-4.600154
-270.199008	-17.547650	-576.320458	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.580317	131.185162	2.029674
156.687988	22.207627	1921.219	
0.25000	5.580317	162.032345	2.029674
156.687988	20.598613	2130.884	
0.50000	5.580317	197.022161	2.029674
156.687988	19.849713	2317.551	
0.75000	5.580317	235.128960	2.029674
156.687988	20.372803	2494.783	
1.00000	5.580317	275.170292	2.029674
156.687988	22.115277	2653.873	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.248946	-517.577917	-6.926641
-190.056021	-41.861327	-1274.934	
0.25000	-6.248946	-477.080853	-6.926641
-190.056021	-36.070002	-1234.228	
0.50000	-6.248946	-437.844452	-6.926641
-190.056021	-30.876799	-1193.522	
0.75000	-6.248946	-401.157706	-6.926641
-190.056021	-26.182235	-1152.816	
1.00000	-6.248946	-368.152183	-6.926641
-190.056021	-21.832980	-1112.123	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.155267	120.735360	2.776598
176.744980	28.657509	2189.503	
0.25000	8.155267	148.809432	2.776598
176.744980	26.062482	2447.403	
0.50000	8.155267	180.651803	2.776598
176.744980	24.262473	2693.740	
0.75000	8.155267	215.331241	2.776598
176.744980	23.596361	2943.787	
1.00000	8.155267	251.771576	2.776598
176.744980	24.022138	3187.159	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.014517	-565.412729	-7.845795
-570.881427	-53.930393	-1718.353	
0.25000	-7.014517	-528.557752	-7.845795
-570.881427	-46.747536	-1664.883	
0.50000	-7.014517	-492.850538	-7.845795
-570.881427	-40.111081	-1611.413	
0.75000	-7.014517	-459.464111	-7.845795
-570.881427	-33.932770	-1557.943	
1.00000	-7.014517	-429.426102	-7.845795
-570.881429	-28.069543	-1504.484	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1279

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.682497	102.639809	2.935464
453.074774	29.022391	2211.342	
0.25000	7.682497	126.290698	2.935464
453.074774	26.096668	2483.975	
0.50000	7.682497	153.117792	2.935464
453.074774	23.842747	2754.339	
0.75000	7.682497	182.334713	2.935464
453.074774	22.568643	3038.132	
1.00000	7.682497	213.034862	2.935464
453.074774	22.229959	3324.487	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.869124	-553.847685	-7.165607
-492.940454	-49.626410	-1899.433	
0.25000	-6.869124	-522.798121	-7.165607
-492.940454	-42.836449	-1841.060	
0.50000	-6.869124	-492.715121	-7.165607
-492.940454	-36.529040	-1782.687	
0.75000	-6.869124	-464.586971	-7.165607
-492.940454	-31.241606	-1724.314	
1.00000	-6.869124	-439.281258	-7.165607
-492.940454	-26.438724	-1665.951	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.354863	7.077023	0.838289
505.557826	4.825520	542.992303	
0.25000	1.354863	7.653757	0.838289
503.510615	4.049125	632.956213	
0.50000	1.354863	8.311190	0.838289
502.010741	3.292139	737.079179	
0.75000	1.354863	9.026996	0.838289
500.516524	2.563241	852.908527	
1.00000	1.354863	9.776520	0.838289
499.016963	1.884520	977.051951	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.127381	-126.038709	-1.120095
-32.090619	-11.862006	-718.080725	
0.25000	-2.127381	-125.280384	-1.120095
-33.570391	-11.645351	-697.283099	
0.50000	-2.127381	-124.543022	-1.120095
-35.059679	-11.708974	-676.485472	
0.75000	-2.127381	-123.853282	-1.120095
-36.567775	-12.071590	-655.753563	
1.00000	-2.127381	-123.235489	-1.120095
-38.619847	-12.641876	-635.024997	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.792805	46.1185647	3.426209
844.734866	29.524963	1291.927	
0.25000	5.792805	52.291766	3.426209
825.754182	25.475824	1439.756	
0.50000	5.792805	59.324055	3.426209
811.850200	21.451668	1613.230	
0.75000	5.792805	66.981008	3.426209
798.000386	17.470326	1818.767	
1.00000	5.792805	75.002438	3.426209
784.094707	13.988162	2044.288	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.529513	-293.104063	-2.721692
-107.983698	-17.752677	-1264.964	
0.25000	-3.529513	-284.988835	-2.721692
-121.721396	-16.955117	-1227.027	
0.50000	-3.529513	-277.101767	-2.721692
-135.545343	-16.489670	-1189.090	
0.75000	-3.529513	-269.724543	-2.721692
-149.541238	-16.269324	-1151.169	
1.00000	-3.529513	-263.112858	-2.721692
-168.573605	-16.235679	-1113.318	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1280

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.322484	112.143731	2.350515
623.994350	21.931593	2053.196	
0.25000	5.322484	140.646058	2.350515
623.994350	19.953248	2326.938	
0.50000	5.322484	172.972838	2.350515
623.994350	18.952655	2583.362	
0.75000	5.322484	208.180168	2.350515
623.994350	19.117386	2827.390	
1.00000	5.322484	245.175447	2.350515
623.994350	20.412540	3054.178	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.809105	-550.848144	-5.766495
-94.242470	-30.418160	-1705.405	
0.25000	-4.809105	-513.431982	-5.766495
-93.812819	-27.414712	-1653.015	
0.50000	-4.809105	-477.181389	-5.766495
-93.426315	-25.160118	-1600.625	
0.75000	-4.809105	-443.287223	-5.766495
-93.063132	-23.687596	-1548.244	
1.00000	-4.809105	-412.791259	-5.766495
-92.763175	-22.231223	-1495.931	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.440633	104.469223	2.396046
558.339943	22.738543	2200.493	
0.25000	6.440633	127.809382	2.396046
558.339943	20.512648	2469.952	
0.50000	6.440633	154.283726	2.396046
558.339943	19.075610	2741.376	
0.75000	6.440633	183.116544	2.396046
558.339943	18.623039	3026.255	
1.00000	6.440633	213.413144	2.396046
558.339943	19.432530	3314.840	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.518301	-552.465164	-7.696082
-390.737331	-55.077359	-1898.052	
0.25000	-8.518301	-521.823758	-7.696082
-390.737331	-48.956582	-1839.787	
0.50000	-8.518301	-492.136282	-7.696082
-390.737331	-43.448654	-1781.521	
0.75000	-8.518301	-464.378025	-7.696082
-390.737331	-38.420497	-1723.264	
1.00000	-8.518301	-439.404839	-7.696082
-390.737331	-33.717685	-1665.064	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.530417	8.693422	4.499128
59.729195	40.014420	643.051669	
0.25000	9.530417	9.050982	4.499128
60.673358	34.801543	755.212259	
0.50000	9.530417	9.454720	4.499128
61.702409	29.776416	890.381811	
0.75000	9.530417	9.888346	4.499128
62.810805	24.941290	1031.030	
1.00000	9.530417	10.333817	4.499128
64.000333	20.303968	1173.299	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.740228	-159.411244	-0.539136
-675.665663	-10.620367	-966.328105	
0.25000	-3.740228	-158.880138	-0.539136
-674.318218	-10.388811	-918.071276	
0.50000	-3.740228	-158.355349	-0.539136
-673.046362	-10.623314	-890.117384	
0.75000	-3.740228	-157.855337	-0.539136
-671.847707	-11.542265	-863.813357	
1.00000	-3.740228	-157.396724	-0.539136
-670.725437	-12.817557	-837.527448	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1281

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.458701	42.404023	4.290081
136.029428	40.964895	1361.985	
0.25000	12.458701	45.377771	4.290081
142.756751	36.559794	1546.466	
0.50000	12.458701	48.735535	4.290081
150.074953	31.302615	1782.058	
0.75000	12.458701	52.341823	4.290081
157.970348	26.778530	2040.424	
1.00000	12.458701	56.046541	4.290081
166.439420	23.020308	2302.040	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.904283	-331.488075	-6.006062
-1072.548	-61.274497	-1737.263	
0.25000	-8.904283	-327.071696	-6.006062
-1062.925	-54.420237	-1640.615	
0.50000	-8.904283	-322.707893	-6.006062
-1053.842	-47.841848	-1585.819	
0.75000	-8.904283	-318.549717	-6.006062
-1045.286	-41.893951	-1535.807	
1.00000	-8.904283	-314.736939	-6.006062
-1037.263	-36.722858	-1485.875	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.634604	98.307407	4.672124
124.921893	47.440098	2096.252	
0.25000	12.634604	118.372796	4.672124
120.016501	42.713958	2403.109	
0.50000	12.634604	141.018287	4.672124
115.461744	38.769216	2743.211	
0.75000	12.634604	165.345731	4.672124
111.248471	35.878158	3067.578	
1.00000	12.634604	190.316632	4.672124
107.370438	34.043143	3359.163	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.651584	-578.487497	-8.129817
-873.563565	-66.570933	-2370.178	
0.25000	-8.651584	-548.728855	-8.129817
-877.969519	-58.367644	-2229.369	
0.50000	-8.651584	-519.330756	-8.129817
-882.701714	-50.901096	-2150.639	
0.75000	-8.651584	-491.314494	-8.129817
-887.766668	-44.420798	-2079.377	
1.00000	-8.651584	-465.621556	-8.129817
-893.179178	-38.862407	-2008.191	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.037629	95.194701	5.867539
417.805561	58.720286	2256.889	
0.25000	13.037629	111.708442	5.867539
414.482388	52.427262	2569.717	
0.50000	13.037629	130.344474	5.867539
411.406531	46.799624	2934.573	
0.75000	13.037629	150.364686	5.867539
408.572790	42.076126	3300.564	
1.00000	13.037629	170.914454	5.867539
405.972841	38.259576	3642.421	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.696864	-591.910184	-7.921384
-770.809789	-63.765717	-2571.699	
0.25000	-8.696864	-567.420118	-7.921384
-773.926784	-55.695337	-2421.801	
0.50000	-8.696864	-543.226807	-7.921384
-777.268640	-48.274108	-2337.623	
0.75000	-8.696864	-520.170692	-7.921384
-780.841420	-41.706526	-2261.172	
1.00000	-8.696864	-499.025570	-7.921384
-784.652268	-35.948463	-2184.805	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1282

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.210739	57.138798	0.266269
78.232949	5.418995	913.560439	
0.25000	3.210739	68.356627	0.266269
95.122874	5.095866	1029.313	
0.50000	3.210739	81.022834	0.266269
113.495060	4.845638	1155.547	
0.75000	3.210739	94.626130	0.266269
133.326605	5.733651	1275.910	
1.00000	3.210739	108.599288	0.266269
154.613949	7.613056	1378.412	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.946831	-259.658933	-6.608943
-376.871756	-55.089093	-894.619241	
0.25000	-5.946831	-243.007179	-6.608943
-352.474469	-47.299472	-835.187559	
0.50000	-5.946831	-226.555558	-6.608943
-329.420536	-39.582355	-802.639636	
0.75000	-5.946831	-210.869061	-6.608943
-307.719166	-32.367816	-773.929845	
1.00000	-5.946831	-196.488579	-6.608943
-287.336366	-25.620088	-745.256999	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.908865	113.340897	2.327898
172.834720	28.561348	1803.792	
0.25000	5.908865	135.785790	2.327898
172.834720	26.891940	2033.148	
0.50000	5.908865	161.108569	2.327898
172.834720	25.374051	2280.942	
0.75000	5.908865	188.312314	2.327898
172.834720	25.265447	2515.184	
1.00000	5.908865	216.235768	2.327898
172.834720	26.208892	2713.293	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.391294	-510.991532	-8.640295
-213.434510	-51.342138	-1738.200	
0.25000	-6.391294	-477.712579	-8.640295
-213.434510	-52.426464	-1624.606	
0.50000	-6.391294	-444.837042	-8.640295
-213.434510	-44.128723	-1562.245	
0.75000	-6.391294	-413.504713	-8.640295
-213.434510	-36.455814	-1506.845	
1.00000	-6.391294	-384.767610	-8.640295
-213.434510	-29.422978	-1451.520	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.220936	106.214522	3.290260
200.230519	38.859540	2171.394	
0.25000	10.220936	126.713007	3.290260
200.230519	35.670864	2465.348	
0.50000	10.220936	149.838036	3.290260
200.230519	33.149486	2797.807	
0.75000	10.220936	174.680818	3.290260
200.230519	31.662708	3122.090	
1.00000	10.220936	200.180884	3.290260
200.230519	31.099271	3413.077	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.458619	-587.213488	-9.260230
-682.749434	-74.845091	-2456.606	
0.25000	-8.458619	-556.822293	-9.260230
-682.124451	-65.051287	-2310.741	
0.50000	-8.458619	-526.799670	-9.260230
-681.499467	-55.828340	-2202.241	
0.75000	-8.458619	-498.186281	-9.260230
-680.874483	-47.186070	-2121.894	
1.00000	-8.458619	-471.941377	-9.260230
-680.249500	-39.104777	-2048.732	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1283

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.436859	91.820561	3.788017
533.490591	40.110947	2262.720	
0.25000	9.436859	109.152344	3.788017
533.490591	36.216930	2581.639	
0.50000	9.436859	128.706410	3.788017
533.490591	32.895038	2949.850	
0.75000	9.436859	149.712944	3.788017
533.490591	30.450597	3313.519	
1.00000	9.436859	171.275231	3.788017
533.490591	28.833246	3648.838	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.570235	-593.998583	-8.741280
-587.901628	-71.458626	-2666.158	
0.25000	-8.570235	-568.300779	-8.741280
-587.901628	-62.058648	-2513.755	
0.50000	-8.570235	-542.914567	-8.741280
-587.901628	-53.151664	-2405.385	
0.75000	-8.570235	-518.735971	-8.741280
-587.901628	-45.030602	-2321.341	
1.00000	-8.570235	-496.529390	-8.741280
-587.901628	-37.504361	-2243.263	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.736808	8.716400	1.476054
620.806233	7.852134	659.254232	
0.25000	1.736808	9.150595	1.476054
619.147718	6.513535	775.401031	
0.50000	1.736808	9.643703	1.476054
617.584247	5.203003	913.992481	
0.75000	1.736808	10.173034	1.476054
616.116435	3.937754	1056.500	
1.00000	1.736808	10.716566	1.476054
614.744183	2.850523	1200.470	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.544481	-162.233666	-2.054522
-36.987228	-22.243447	-959.227304	
0.25000	-3.544481	-161.586626	-2.054522
-38.189562	-20.298994	-913.009312	
0.50000	-3.544481	-160.947317	-2.054522
-39.493609	-18.672577	-885.840029	
0.75000	-3.544481	-160.338147	-2.054522
-40.899029	-17.308687	-859.313176	
1.00000	-3.544481	-159.781631	-2.054522
-42.406228	-16.153985	-832.794640	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.701486	44.859891	4.335498
953.283629	33.485235	1570.521	
0.25000	5.701486	48.796837	4.335498
941.475193	28.892917	1807.139	
0.50000	5.701486	53.258215	4.335498
930.388671	24.428502	2061.625	
0.75000	5.701486	62.969296	4.335498
920.018509	20.338086	2317.474	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.516493	-336.180367	-3.838415
-113.967969	-32.005765	-1715.773	
0.25000	-5.516493	-330.321211	-3.838415
-123.082225	-28.732911	-1624.834	
0.50000	-5.516493	-324.533685	-3.838415
-132.968938	-25.788426	-1566.548	
0.75000	-5.516493	-319.017945	-3.838415
-143.621435	-23.109935	-1514.832	
1.00000	-5.516493	-313.975749	-3.838415
-155.044313	-20.676061	-1465.336	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1284

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.919870	98.098519	3.421437
760.100394	32.285993	2075.261	
0.25000	5.919870	118.404302	3.421437
762.342500	29.185102	2380.935	
0.50000	5.919870	141.305358	3.421437
765.300635	26.755825	2716.847	
0.75000	5.919870	165.899535	3.421437
768.528622	25.493318	3034.275	
1.00000	5.919870	191.161023	3.421437
772.020658	25.162102	3318.461	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.791107	-572.334853	-7.555222
-139.690183	-34.290612	-2288.562	
0.25000	-6.791107	-542.236306	-7.555222
-134.649405	-47.201855	-2164.395	
0.50000	-6.791107	-512.503041	-7.555222
-129.815759	-40.973298	-2089.002	
0.75000	-6.791107	-484.165392	-7.555222
-125.196707	-35.483478	-2019.685	
1.00000	-6.791107	-458.107905	-7.555222
-120.814211	-30.625945	-1950.423	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.144834	93.929233	3.343369

```
681.246199    33.531613    2250.934
 0.25000     8.144834   110.619494     3.343369
681.775314    30.343320    2565.946
 0.50000     8.144834   129.444165     3.343369
683.596747    27.712753    2931.811
 0.75000     8.144834   149.667237     3.343369
685.594718    26.042220    3296.842
 1.00000     8.144834   170.425453     3.343369
687.760885    25.369333    3637.165

 COMB DL-G3-4 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.743814  -591.554018   -9.889451
-482.308340   -82.339562   -2629.712
 0.25000   -9.743814  -566.813328   -9.889451
-478.943962   -72.059931   -2479.199
 0.50000   -9.743814  -542.372847   -9.889451
-475.712311   -62.412983   -2393.427
 0.75000   -9.743814  -519.079556   -9.889451
-472.616276   -53.373262   -2314.991
 1.00000   -9.743814  -497.709860   -9.889451
-469.667300   -44.932768   -2236.609

 COMB      DB ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.420267   131.185162     4.094844
844.734866    40.615350    2211.342
 0.25000   10.420267   162.032345     4.094844
825.754182    52.427262    2583.975
 0.50000   10.420267   197.022161     4.094844
811.850200    32.463419    2754.339
 0.75000   10.420267   235.128960     4.094844
798.000386    29.674593    3038.132
 1.00000   10.420267   275.170292     4.094844
784.094707    27.811413    3324.487

 COMB      DB ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -8.518301  -565.412729   -7.845795
-912.901655   -55.077359   -1904.025
 0.25000   -8.518301  -528.557752   -7.845795
-897.940640   -48.956582   -1845.842
 0.50000   -8.518301  -492.850538   -7.845795
-886.956693   -43.448654   -1787.659
 0.75000   -8.518301  -464.696477   -7.845795
-876.017129   -38.420497   -1729.475
 1.00000   -8.518301  -439.818278   -7.845795
-865.063153   -33.717685   -1671.301
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    1285

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   13.037629   113.340897     5.867539
965.818725    58.720286    2262.720
 0.25000   13.037629   135.785790     5.867539
953.283629    52.427262    2581.639
 0.50000   13.037629   161.108569     5.867539
941.475193    46.799624    2949.850
 0.75000   13.037629   188.312314     5.867539
930.388671    42.076126    3313.519
 1.00000   13.037629   216.235768     5.867539
920.018509    38.259576    3648.838

 COMB      DL ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.743814  -593.998583   -9.889451
-1072.548   -82.339562   -2666.158
 0.25000   -9.743814  -568.300779   -9.889451
-1062.925   -72.059931   -2513.755
 0.50000   -9.743814  -543.226807   -9.889451
-1053.842   -62.412983   -2405.385
 0.75000   -9.743814  -520.170692   -9.889451
-1045.286   -53.373262   -2321.341
 1.00000   -9.743814  -499.025570   -9.889451
-1037.263   -44.932768   -2243.263

 COMB      CAR ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   13.037629   131.185162     5.867539
965.818725    58.720286    2262.720
 0.25000   13.037629   162.032345     5.867539
953.283629    52.427262    2581.639
 0.50000   13.037629   197.022161     5.867539
941.475193    46.799624    2949.850
 0.75000   13.037629   235.128960     5.867539
930.388671    42.076126    3313.519
 1.00000   13.037629   275.170292     5.867539
920.018509    38.259576    3648.838

 COMB      CAR ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.743814  -593.998583   -9.889451
-1072.548   -82.339562   -2666.158
 0.25000   -9.743814  -568.300779   -9.889451
-1062.925   -72.059931   -2513.755
 0.50000   -9.743814  -543.226807   -9.889451
-1053.842   -62.412983   -2405.385
 0.75000   -9.743814  -520.170692   -9.889451
-1045.286   -53.373262   -2321.341
 1.00000   -9.743814  -499.025570   -9.889451
-1037.263   -44.932768   -2243.263

 COMB    DESIGN ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   13.037629   131.185162     5.867539
965.818725    58.720286    2262.720
 0.25000   13.037629   162.032345     5.867539
953.283629    52.427262    2581.639
 0.50000   13.037629   197.022161     5.867539
941.475193    46.799624    2949.850
 0.75000   13.037629   235.128960     5.867539
930.388671    42.076126    3313.519
 1.00000   13.037629   275.170292     5.867539
920.018509    38.259576    3648.838

 COMB    DESIGN ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.743814  -593.998583   -9.889451
-1072.548   -82.339562   -2666.158
 0.25000   -9.743814  -568.300779   -9.889451
-1062.925   -72.059931   -2513.755
 0.50000   -9.743814  -543.226807   -9.889451
-1053.842   -62.412983   -2405.385
 0.75000   -9.743814  -520.170692   -9.889451
-1045.286   -53.373262   -2321.341
 1.00000   -9.743814  -499.025570   -9.889451
-1037.263   -44.932768   -2243.263
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    1286

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        99 ========== LENGTH
=     4.957922

 COMB DB-G1-1 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   6.361910    7.188476    1.906028
5.179815   11.380969   939.576346
 0.25000   6.361910    7.689892    1.906028
6.389822    9.073921    1010.561
 0.50000   6.361910    8.258124    1.906028
7.602562    6.780956    1092.786
 0.75000   6.361910    8.876385    1.906028
8.825901    4.511204    1183.652
 1.00000   6.361910    9.526253    1.906028
10.498212   2.939825    1281.548

 COMB DB-G1-1 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -1.800075  -104.087672   -0.908919
-467.052399   -8.130910  -635.085114
 0.25000   -1.800075  -103.433081   -0.908919
-465.375561   -7.913278  -612.656199
 0.50000   -1.800075  -102.803417   -0.908919
-464.141718   -8.102582  -590.236247
 0.75000   -1.800075  -102.216334   -0.908919
-462.916388   -8.842668  -567.830429
 1.00000   -1.800075  -101.689361   -0.908919
-461.693233   -10.011693  -545.424611

 COMB DB-G1-2 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   7.993560    53.158902    1.979541
77.148811    13.427272    2006.033
 0.25000   7.993560    58.172377    1.979541
88.031057    12.445914    2115.566
 0.50000   7.993560    63.854010    1.979541
98.939209    11.832779    2251.458
 0.75000   7.993560    70.035650    1.979541
109.943853    11.443332    2417.874
 1.00000   7.993560    76.531215    1.979541
124.989915    12.782101    2604.850

 COMB DB-G1-2 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -7.875879  -248.917628   -4.041734
-809.694196   -25.282320   -1131.859
 0.25000   -7.875879  -242.374881   -4.041734
-794.604513   -21.002521   -1093.115
 0.50000   -7.875879  -236.078997   -4.041734
-783.495705   -17.295502   -1054.370
 0.75000   -7.875879  -230.208613   -4.041734
-772.470385   -14.245957   -1015.625
 1.00000   -7.875879  -224.939345   -4.041734
-761.463062   -12.188620   -976.880892

 COMB DB-G1-3 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   8.491384    133.211816    2.886052
35.247202    25.325792    3042.305
 0.25000   8.491384    162.325195    2.886052
35.195383    24.143948    3271.447
 0.50000   8.491384    195.326158    2.886052
35.195383    24.038084    3478.549
 0.75000   8.491384    231.219039    2.886052
35.195383    24.949953    3666.556
 1.00000   8.491384    268.823092    2.886052
35.195383    28.092773    3833.950

 COMB DB-G1-3 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.488496  -503.318667   -5.967197
-616.029756   -24.314909   -1517.625
 0.25000   -6.488496  -465.447725   -5.967197
-617.893506   -20.102399   -1466.806
 0.50000   -6.488496  -428.873929   -5.967197
-619.821783   -16.885865   -1415.999
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    1287

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.75000   -6.488496  -394.762872   -5.967197
-621.968114   -14.606814   -1365.193
 1.00000   -6.488496  -364.149749   -5.967197
-624.754385   -13.064856   -1314.386

 COMB DB-G1-4 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.369287   132.060535    3.867970
284.902157    28.690133    3314.834
 0.25000   10.369287   156.003167    3.867970
284.902157    26.279944    3532.097
 0.50000   10.369287   183.141047    3.867970
284.902157    25.150905    3747.159
 0.75000   10.369287   212.657558    3.867970
284.902157    25.329305    3968.620
 1.00000   10.369287   243.581621    3.867970
284.902157    28.298088    4190.701

 COMB DB-G1-4 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.328727  -501.156007   -5.769949
-558.907772   -22.158047   -1471.318
 0.25000   -6.328727  -470.008379   -5.769949
-558.907772   -18.534673   -1615.276
 0.50000   -6.328727  -439.936162   -5.769949
-558.953586   -15.581437   -1559.244
 0.75000   -6.328727  -411.885543   -5.769949
-559.587940   -13.628691   -1503.213
 1.00000   -6.328727  -386.709718   -5.769949
-560.230660   -12.406417   -1447.181

 COMB DB-G2-1 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   1.843096    80.873315    0.157642
85.870270    6.879820    1362.546
 0.25000   1.843096    96.773853    0.157642
106.077005    8.525254    1450.311
 0.50000   1.843096    114.794563   0.157642
126.349260    10.710564   1526.231
 0.75000   1.843096    134.398588   0.157642
146.815972    13.356682   1596.344
 1.00000   1.843096    154.973466   0.157642
174.833747    16.409144   1656.285

 COMB DB-G2-1 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.943483  -245.508953   -3.765993
-337.586429   -17.769193   -576.344535
 0.25000   -6.943483  -224.784913   -3.765993
-309.445482   -13.921360   -557.700924
 0.50000   -6.943483  -204.815828   -3.765993
-288.702584   -10.075466   -539.057312
 0.75000   -6.943483  -186.193445   -3.765993
-268.124422   -6.426349   -520.413700
 1.00000   -6.943483  -169.478501   -3.765993
-247.592437   -3.800566   -501.770088

 COMB DB-G2-2 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   5.278745    159.177514    2.462198
153.474753    23.479709    2653.901
 0.25000   5.278745    190.967354    2.462198
153.474753    23.557541    2828.559
 0.50000   5.278745    226.999142    2.462198
153.474753    25.249930    2977.031
 0.75000   5.278745    266.189225    2.462198
153.474753    28.513653    3110.418
 1.00000   5.278745    307.248298    2.462198
153.474753    32.986984    3221.578

 COMB DB-G2-2 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.001907  -482.077474   -6.007503
-181.771495   -19.257717   -1112.103
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    1288

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.25000   -6.001907  -440.721574   -6.007503
-181.771495   -15.084866   -1076.251
 0.50000   -6.001907  -400.793708   -6.007503
-181.771495   -11.490714   -1040.412
 0.75000   -6.001907  -363.550156   -6.007503
-181.771495   -8.546552   -1004.573
 1.00000   -6.001907  -330.122948   -6.007503
-181.771495   -5.927687   -968.733590

 COMB DB-G2-3 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   7.983289    150.547311    3.014424
143.559024    25.117630    3188.303
 0.25000   7.983289    179.476964    3.014424
143.559024    24.080950    3399.783
 0.50000   7.983289    212.269337    3.014424
143.559024    24.472146    3595.378
 0.75000   7.983289    247.934362    3.014424
143.559024    27.239550    3787.383
 1.00000   7.983289    285.300644    3.014424
143.559024    31.110609    3968.432

 COMB DB-G2-3 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.824072  -518.637976   -6.792328
-513.826002   -25.664327   -1504.518
 0.25000   -6.824072  -481.001590   -6.792328
-513.675657   -20.225049   -1454.844
 0.50000   -6.824072  -444.665279   -6.792328
-513.421270   -15.312511   -1405.180
 0.75000   -6.824072  -410.772321   -6.792328
-513.226242   -11.005649   -1355.517
 1.00000   -6.824072  -380.350667   -6.792328
-513.114147   -7.282366   -1305.854

 COMB DB-G2-4 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   7.554627    131.791800    3.011544
387.259732    23.092467    3324.384
 0.25000   7.554627    156.165435    3.011544
387.259732    21.620593    3545.894
 0.50000   7.554627    183.791421    3.011544
387.259732    21.377598    3760.310
 0.75000   7.554627    213.838908    3.011544
387.259732    23.909515    3980.077
 1.00000   7.554627    245.319371    3.011544
387.259732    27.817111    4198.555

 COMB DB-G2-4 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.763702  -502.620351   -6.162307
-432.373451   -23.843882   -1665.943
 0.25000   -6.763702  -470.912308   -6.162307
-432.373451   -19.147625   -1610.102
 0.50000   -6.763702  -440.299154   -6.162307
-432.373451   -14.900762   -1554.270
 0.75000   -6.763702  -411.744095   -6.162307
-432.373451   -11.140801   -1498.439
 1.00000   -6.763702  -386.115070   -6.162307
-432.373451   -7.913307   -1442.607

 COMB DB-G3-1 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   1.236703    7.714302    0.638767
439.214276    3.835610    975.358434
 0.25000   1.236703    8.309282    0.638767
437.200147    2.679893    1046.280
 0.50000   1.236703    8.986732    0.638767
435.703086    2.715999    1129.313
 0.75000   1.236703    9.723298    0.638767
434.214154    3.835610    1222.122
 1.00000   1.236703    10.492455   0.638767
432.723086    4.993012    1323.041
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    1289

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -2.214551  -107.660934   -1.544061
-6.684339   -11.387152   -634.980617
 0.25000   -2.214551  -106.886245   -1.544061
-8.174179   -10.203829   -612.176836
 0.50000   -2.214551  -106.135530   -1.544061
-9.664272   -9.287228   -589.373737
 0.75000   -2.214551  -105.434989   -1.544061
-11.164585   -8.704935   -566.570955
 1.00000   -2.214551  -104.809091   -1.544061
-13.209167   -8.398080   -543.768174

 COMB DB-G3-2 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   5.773976    58.223341    2.912459
754.595130    16.011997    2041.830
 0.25000   5.773976    64.590958    2.912459
735.569951    13.501564    2155.547
 0.50000   5.773976    71.836719    2.912459
721.801963    12.717375    2292.029
 0.75000   5.773976    79.715147    2.912459
708.010444    14.128002    2455.670
 1.00000   5.773976    87.945848    2.912459
694.196781    16.202106    2637.810

 COMB DB-G3-2 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.501564  -259.418933   -2.850074
-92.016701   -13.662669   -1113.226
 0.25000   -3.501564  -251.129004   -2.850074
-105.828798   -11.721328   -1074.824
 0.50000   -3.501564  -243.099647   -2.850074
-119.642665   -10.236632   -1036.431
 0.75000   -3.501564  -235.607355   -2.850074
-133.551014   -9.455723   -998.040102
 1.00000   -3.501564  -228.909240   -2.850074
-152.498277   -9.053814   -959.649121

 COMB DB-G3-3 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   4.997583    135.439207    2.658253
546.493347    23.237154    3052.267
 0.25000   4.997583    164.811965    2.658253
546.493347    22.196272    3280.256
 0.50000   4.997583    198.101003    2.658253
546.493347    22.807372    3485.673
 0.75000   4.997583    234.308738    2.658253
546.493347    26.125568    3672.280
 1.00000   4.997583    272.243881    2.658253
546.493347    30.456976    3838.564

 COMB DB-G3-3 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.599896  -505.079378   -5.260601
-70.857324   -18.446862   -1495.851
 0.25000   -4.599896  -466.870038   -5.260601
-69.931440   -15.406860   -1445.452
 0.50000   -4.599896  -429.980897   -5.260601
-69.105343   -13.114887   -1395.063
 0.75000   -4.599896  -395.572625   -5.260601
-68.343148   -11.661688   -1344.674
 1.00000   -4.599896  -364.687252   -5.260601
-67.665165   -10.683506   -1294.286

 COMB DB-G3-4 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   6.146994    131.625688    2.583900
489.214736    21.259422    3314.015
 0.25000   6.146994    155.679047    2.583900
489.214736    20.530044    3532.207
 0.50000   6.146994    182.941742    2.583900
489.214736    21.590969    3747.186
 0.75000   6.146994    212.594166    2.583900
489.214736    24.951093    3968.465
 1.00000   6.146994    243.660783    2.583900
489.214736    29.204619    4189.661
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    1290

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -8.464967  -501.290287   -6.824298
-333.851262   -30.707046   -1665.038
 0.25000   -8.464967  -469.999086   -6.824298
-333.851262   -25.125385   -1608.928
 0.50000   -8.464967  -439.788453   -6.824298
-333.851262   -20.159029   -1552.828
 0.75000   -8.464967  -411.408923   -6.824298
-333.851262   -15.885283   -1496.727
 1.00000   -8.464967  -386.316699   -6.824298
-333.851264   -12.015114   -1440.627

 COMB DL-G1-1 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   9.747359    10.470708    3.492356
 5.632760   19.762244    1175.687
 0.25000   9.747359    10.847577    3.492356
 6.604564   15.981473    1272.928
 0.50000   9.747359    11.270810    3.492356
 7.654629   12.383720    1372.354
 0.75000   9.747359    11.724207    3.492356
 8.784301   8.999904    1474.921
 1.00000   9.747359    12.188336    3.492356
 9.991746   6.332075    1579.059

 COMB DL-G1-1 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.586165  -130.388923   -0.952803
-550.898207   -10.027666   -837.723325
 0.25000   -3.586165  -129.863477   -0.952803
-549.557307   -9.486076   -807.842210
 0.50000   -3.586165  -129.345081   -0.952803
-548.294485   -9.319933   -778.251546
 0.75000   -3.586165  -128.852339   -0.952803
-547.110544   -9.959595   -748.517779
 1.00000   -3.586165  -128.403004   -0.952803
-546.005695   -11.222547  -718.791259

 COMB DL-G1-2 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   12.427241    53.352414    3.364990
 68.396865    22.375509    2357.435
 0.25000   12.427241    56.486765    3.364990
 75.824554    19.675030    2464.553
 0.50000   12.427241    60.006680    3.364990
 83.309336    17.528590    2633.148
 0.75000   12.427241    63.774414    3.364990
 91.356689    15.985185    2818.477
 1.00000   12.427241    67.637362    3.364990
 99.960477    15.652136    3007.953

 COMB DL-G1-2 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -8.863780  -275.714215   -5.237589
-887.542331   -32.564415   -1486.181
 0.25000   -8.863780  -271.340376   -5.237589
-877.963811   -27.297409   -1435.077
 0.50000   -8.863780  -267.031983   -5.237589
-868.941740   -22.615434   -1383.951
 0.75000   -8.863780  -262.934468   -5.237589
-860.494405   -18.831779   -1332.813
 1.00000   -8.863780  -259.197583   -5.237589
-852.591012   -16.109788   -1281.781

 COMB DL-G1-3 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   12.438479   117.484532    4.222355
 63.331620    34.589625    3361.981
 0.25000   12.438479   138.616059    4.222355
 58.637596    31.723203    3636.771
 0.50000   12.438479   162.355849    4.222355
 54.267261    29.897156    3883.625
 0.75000   12.438479   187.783917    4.222355
 50.212651    29.200457    4105.516
 1.00000   12.438479   213.824131    4.222355
 46.471663    30.107099    4294.688
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    1291

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -8.412339  -498.326484   -6.689562
-715.823755   -30.971564   -2008.415
 0.25000   -8.412339  -468.842624   -6.689562
-720.057138   -26.498253   -1940.723
 0.50000   -8.412339  -439.801230   -6.689562
-724.612788   -23.915547   -1873.019
 0.75000   -8.412339  -412.176957   -6.689562
-729.484882   -20.380328   -1805.289
 1.00000   -8.412339  -386.994902   -6.689562
-734.683438   -17.898027   -1737.731

 COMB DL-G1-4 ---------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   12.908991   117.517743    5.351623
```

```
317.017220     39.862914     3643.603
 0.25000     12.908991    134.908812     5.351623
313.861720     35.611295     3918.981
 0.50000     12.908991    154.445386     5.351623
310.932233     32.630824     4180.993
 0.75000     12.908991    175.371336     5.351623
308.219589     30.874970     4434.872
 1.00000     12.908991    196.801069     5.351623
305.722975     31.118655     4664.715

 COMB DL-G1-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -8.432573  -505.103999    -6.616083
-631.637792   -31.973060    -2184.862
 0.25000    -8.432573  -480.840192    -6.616083
-634.605074   -26.610911    -2111.530
 0.50000    -8.432573  -456.940488    -6.616083
-637.788102   -22.292296    -2038.186
 0.75000    -8.432573  -434.207049    -6.616083
-641.196359   -18.977306    -1964.853
 1.00000    -8.432573  -413.482404    -6.616083
-644.830354   -16.853834    -1891.629

 COMB DL-G2-1 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     2.862925     67.914009     0.269156
 74.952346     8.065976     1379.172
 0.25000     2.862925     79.737796     0.269156
 92.381037     9.003966     1487.421
 0.50000     2.862925     93.015768     0.269156
111.223587    10.712978     1574.527
 0.75000     2.862925    107.238627     0.269156
131.495977    12.910496     1654.102
 1.00000     2.862925    121.799896     0.269156
153.159129    15.493976     1715.535

 COMB DL-G2-1 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -6.018550  -227.248571    -4.986864
-334.158830   -24.506982   -2453.331961
 0.25000    -6.018550  -210.749996    -4.986864
-309.870322   -19.530987   -720.926054
 0.50000    -6.018550  -194.501416    -4.986864
-286.970312   -14.818198   -696.553321
 0.75000    -6.018550  -179.046175    -4.986864
-265.498480   -10.438263   -672.125388
 1.00000    -6.018550  -164.352079    -4.986864
-245.430530    -6.658857   -647.720783

 COMB DL-G2-2 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     5.492514    134.447084     2.741615
151.506241    28.114608     2713.288
 0.25000     5.492514    158.083820     2.741615
151.506241    27.306319     2920.740
 0.50000     5.492514    184.630214     2.741615
151.506241    27.678109     3097.402
 0.75000     5.492514    213.064581     2.741615
151.506241    29.296326     3251.885
 1.00000     5.492514    242.183605     2.741615
151.506241    31.917587     3369.568
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD            >
                             1292

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -6.161617  -447.737507    -6.651159
-184.421363   -27.193018    -1451.481
 0.25000    -6.161617  -414.766996    -6.651159
-184.421363   -21.793872    -1404.381
 0.50000    -6.161617  -382.284367    -6.651159
-184.421363   -17.142776    -1357.300
 0.75000    -6.161617  -351.399738    -6.651159
-184.421363   -13.068857    -1310.160
 1.00000    -6.161617  -323.232080    -6.651159
-184.421363    -9.554991    -1263.121

 COMB DL-G2-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     9.933816    130.064148     3.485851
140.656781    31.831332     3414.776
 0.25000     9.933816    151.650962     3.485851
140.656781    29.860344     3676.886
 0.50000     9.933816    175.893397     3.485851
140.656984    28.958973     3915.395
 0.75000     9.933816    201.859970     3.485851
140.656984    29.591956     4136.291
 1.00000     9.933816    228.451867     3.485851
140.657180    31.363234     4322.583

 COMB DL-G2-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -8.277541  -506.194629    -7.390615
-563.711797   -35.010244    -2048.850
 0.25000    -8.277541  -476.085323    -7.390615
-562.902784   -28.498842    -1980.898
 0.50000    -8.277541  -446.421574    -7.390615
-562.087761   -22.667403    -1868.140
 0.75000    -8.277541  -418.217195    -7.390615
-561.273952   -17.427103    -1801.968
 1.00000    -8.277541  -392.492367    -7.390615
-560.468375   -12.936950    -1707.865

 COMB DL-G2-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     9.197120    115.939692     3.700628
421.025309    30.497174     3648.759
 0.25000     9.197120    134.191808     3.700628
421.025309    28.023614     3929.346
 0.50000     9.197120    154.690740     3.700628
421.025309    26.689900     4192.756
 0.75000     9.197120    176.647551     3.700628
421.025309    26.959855     4445.432
 1.00000     9.197120    199.133049     3.700628
421.025309    28.754489     4666.920

 COMB DL-G2-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -8.443985  -506.857996    -7.109439
-470.856817   -34.024406    -2243.229
 0.25000    -8.443985  -481.398408    -7.109439
-470.856817   -27.762152    -2168.062
 0.50000    -8.443985  -456.315558    -7.109439
-470.856817   -22.282160    -2055.574
 0.75000    -8.443985  -432.466673    -7.109439
-470.856817   -17.374810    -1981.899
 1.00000    -8.443985  -410.715813    -7.109439
-470.856817   -13.457917    -1884.997

 COMB DL-G3-1 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     1.610600     11.359986     1.064931
516.610352     5.240355     1197.961
 0.25000     1.610600     11.818131     1.064931
514.968480     4.579052     1295.990
 0.50000     1.610600     12.334901     1.064931
513.424548     4.367173     1397.040
 0.75000     1.610600     12.888309     1.064931
511.979102     4.596933     1500.571
 1.00000     1.610600     13.454759     1.064931
510.631543     5.480840     1606.284
```

```
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD            >
                             1293

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -3.586028  -132.858125    -2.439444
-6.574319   -16.333063   -832.606468
 0.25000    -3.586028  -132.217451    -2.439444
-7.798836   -14.079663   -802.033260
 0.50000    -3.586028  -131.585669    -2.439444
-9.121408   -12.166311   -772.275362
 0.75000    -3.586028  -130.984802    -2.439444
-10.541981   -10.618658   -742.521521
 1.00000    -3.586028  -130.439304    -2.439444
-12.059131    -9.932653   -712.835686

 COMB DL-G3-2 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     5.591522     56.656467     3.913902
820.503597    23.952423     2314.007
 0.25000     5.591522     60.807326     3.913902
808.099118    20.611295     2473.985
 0.50000     5.591522     65.485587     3.913902
796.441060    18.567820     2642.195
 0.75000     5.591522     70.495576     3.913902
785.524066    17.510624     2824.405
 1.00000     5.591522     75.623691     3.913902
775.347991    17.529274     3007.936

 COMB DL-G3-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -5.372329  -281.054854    -3.948896
-81.626883   -20.229308    -1465.014
 0.25000    -5.372329  -275.250358    -3.948896
-90.906899   -17.111243    -1414.889
 0.50000    -5.372329  -269.530328    -3.948896
-100.920347   -14.561513    -1364.764
 0.75000    -5.372329  -264.090251    -3.948896
-111.676020   -12.610078    -1314.619
 1.00000    -5.372329  -259.147810    -3.948896
-123.172308   -11.705717    -1264.574

 COMB DL-G3-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     5.540058    117.712489     3.467288
634.762731    29.136876     3315.640
 0.25000     5.540058    139.098792     3.467288
637.772968    27.348593     3586.459
 0.50000     5.540058    163.106383     3.467288
641.053500    26.872939     3829.250
 0.75000     5.540058    188.821489     3.467288
644.596955    28.015439     4046.312
 1.00000     5.540058    215.147777     3.467288
648.399107    30.476504     4229.361

 COMB DL-G3-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -6.571960  -493.817318    -6.449639
-99.744965   -28.987719    -1950.153
 0.25000    -6.571960  -464.000163    -6.449639
-94.568566   -24.135061    -1884.382
 0.50000    -6.571960  -434.622718    -6.449639
-89.649856   -20.170913    -1818.525
 0.75000    -6.571960  -406.690730    -6.449639
-84.997205   -17.027219    -1752.828
 1.00000    -6.571960  -381.208275    -6.449639
-80.617744   -14.963436    -1687.123

 COMB DL-G3-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     7.756285    116.773706     3.308306
556.235240    27.814764     3635.994
 0.25000     7.756285    134.352214     3.308306
558.136093    26.211315     3917.255
 0.50000     7.756285    154.086466     3.308306
560.213579    25.932868     4174.835
 0.75000     7.756285    175.224284     3.308306
562.461014    27.205265     4428.065
 1.00000     7.756285    196.864467     3.308306
564.873954    29.921299     4656.101
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD            >
                             1294

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -9.660897  -504.921799    -8.335294
-382.960243   -41.974054    -2236.503
 0.25000    -9.660897  -480.410939    -8.335294
-379.483232   -34.448682    -2161.140
 0.50000    -9.660897  -456.262862    -8.335294
-376.174187   -27.766081    -2072.953
 0.75000    -9.660897  -433.302911    -8.335294
-373.037912   -21.921630    -1994.951
 1.00000    -9.660897  -412.357603    -8.335294
-370.074922   -17.297534    -1920.353

 COMB      DB ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    10.369287    159.177514     3.867970
754.595130    28.690133     3324.384
 0.25000    10.369287    190.967354     3.867970
735.669651    26.279944     3545.894
 0.50000    10.369287    226.999142     3.867970
721.801063    25.224839     3772.810
 0.75000    10.369287    266.189225     3.867970
708.010444    28.513653     3980.077
 1.00000    10.369287    307.248298     3.867970
694.196781    32.986984     4198.555

 COMB      DB ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -8.464967  -518.637976    -6.824298
-809.694196   -30.707046    -1671.318
 0.25000    -8.464967  -481.001590    -6.824298
-794.604513   -25.125385    -1615.276
 0.50000    -8.464967  -444.665279    -6.824298
-783.495705   -20.159029    -1559.244
 0.75000    -8.464967  -411.885543    -6.824298
-772.470385   -15.885283    -1503.213
 1.00000    -8.464967  -386.709718    -6.824298
-761.463062   -13.064856    -1447.181

 COMB      DL ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    12.908991    134.447084     5.351623
820.503597    39.862914     3648.759
 0.25000    12.908991    158.083820     5.351623
808.099118    35.611295     3929.346
 0.50000    12.908991    184.630214     5.351623
796.441060    32.630824     4193.756
 0.75000    12.908991    213.064581     5.351623
785.524066    30.874970     4445.432
 1.00000    12.908991    242.183605     5.351623
775.347991    31.917587     4666.920
```

```
 COMB      DL ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -9.660897  -506.857996    -8.335294
-887.542331   -41.974054    -2243.229
 0.25000    -9.660897  -481.398408    -8.335294
-877.963811   -34.448682    -2168.062
 0.50000    -9.660897  -456.940488    -8.335294
-868.941740   -27.766081    -2072.953
 0.75000    -9.660897  -434.207049    -8.335294
-860.494405   -21.921630    -1994.951
 1.00000    -9.660897  -413.482404    -8.335294
-852.591012   -17.898027    -1920.353

 COMB      CAR ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    12.908991    159.177514     5.351623
820.503597    39.862914     3648.759
 0.25000    12.908991    190.967354     5.351623
808.099118    35.611295     3929.346
 0.50000    12.908991    226.999142     5.351623
796.441060    32.630824     4193.756
 0.75000    12.908991    266.189225     5.351623
785.524066    30.874970     4445.432
 1.00000    12.908991    307.248298     5.351623
775.347991    32.986984     4666.920
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD            >
                             1295

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -9.660897  -518.637976    -8.335294
-887.542331   -41.974054    -2243.229
 0.25000    -9.660897  -481.398408    -8.335294
-877.963811   -34.448682    -2168.062
 0.50000    -9.660897  -456.940488    -8.335294
-868.941740   -27.766081    -2072.953
 0.75000    -9.660897  -434.207049    -8.335294
-860.494405   -21.921630    -1994.951
 1.00000    -9.660897  -413.482404    -8.335294
-852.591012   -17.898027    -1920.353

 COMB    DESIGN ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    12.908991    159.177514     5.351623
820.503597    39.862914     3648.759
 0.25000    12.908991    190.967354     5.351623
808.099118    35.611295     3929.346
 0.50000    12.908991    226.999142     5.351623
796.441060    32.630824     4193.756
 0.75000    12.908991    266.189225     5.351623
785.524066    30.874970     4445.432
 1.00000    12.908991    307.248298     5.351623
775.347991    32.986984     4666.920

 COMB    DESIGN ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -9.660897  -518.637976    -8.335294
-887.542331   -41.974054    -2243.229
 0.25000    -9.660897  -481.398408    -8.335294
-877.963811   -34.448682    -2168.062
 0.50000    -9.660897  -456.940488    -8.335294
-868.941740   -27.766081    -2072.953
 0.75000    -9.660897  -434.207049    -8.335294
-860.494405   -21.921630    -1994.951
 1.00000    -9.660897  -413.482404    -8.335294
-852.591012   -17.898027    -1920.353

 ELEM     100 ================== LENGTH
=     4.957293

 COMB DB-G1-1 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     6.536751     20.741299     1.570772
52.932458     4.227501     1282.735
 0.25000     6.536751     21.257577     1.570772
54.155727     3.506489     1322.214
 0.50000     6.536751     21.840581     1.570772
55.380594     2.965732     1373.474
 0.75000     6.536751     22.473078     1.570772
56.614665     2.800105     1433.113
 1.00000     6.536751     23.137080     1.570772
58.294987     3.440237     1499.285

 COMB DB-G1-1 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -1.730588   -83.341110    -1.350553
-354.077642    -8.976475   -545.312319
 0.25000    -1.730588   -82.672952    -1.350553
-352.394354    -8.415117   -523.152191
 0.50000    -1.730588   -82.030334    -1.350553
-351.153627    -8.274812   -500.992063
 0.75000    -1.730588   -81.431909    -1.350553
-349.921280    -8.751768   -478.831934
 1.00000    -1.730588   -80.895308    -1.350553
-348.690531    -9.661282   -456.671806

 COMB DB-G1-2 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     8.035806     78.929521     1.976990
169.768295    14.521437     2606.684
 0.25000     8.035806     84.092150     1.976990
180.776808    13.815496     2667.522
 0.50000     8.035806     89.922963     1.976990
191.801132    13.711432     2749.453
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD            >
                             1296

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
        T           M2           M3
 0.75000     8.035806     96.246422     1.976990
202.907270    14.233332     2861.034
 1.00000     8.035806    102.883569     1.976990
218.032979    16.285879     2990.705

 COMB DB-G1-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -7.960201  -212.974236    -2.777552
-649.978615   -11.021757   -976.728641
 0.25000    -7.960201  -206.295480    -2.777552
-634.826544    -9.232788   -937.988137
 0.50000    -7.960201  -199.869854    -2.777552
-623.651804    -8.143034   -899.247633
 0.75000    -7.960201  -193.885833    -2.777552
-612.561078    -8.525492   -860.507129
 1.00000    -7.960201  -188.520064    -2.777552
-601.481417    -9.468051   -821.766625

 COMB DB-G1-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     8.335206    167.074264     3.189488
112.314277    30.357677     3835.473
 0.25000     8.335206    197.079152     3.189488
110.922496    29.391046     4002.173
 0.50000     8.335206    230.966151     3.189488
109.535081    29.572910     4139.863
 0.75000     8.335206    267.714142     3.189488
108.663921    30.959760     4255.170
 1.00000     8.335206    306.154902     3.189488
108.663921    34.324592     4344.939

 COMB DB-G1-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -6.257282  -457.464035    -4.621941
-478.161524   -11.070227    -1314.255
 0.25000    -6.257282  -418.779045    -4.621941
-480.067576    -9.751128    -1262.967
 0.50000    -6.257282  -381.444946    -4.621941
-481.906766    -9.002493    -1211.679
 0.75000    -6.257282  -346.661213    -4.621941
-483.703355    -9.395742    -1160.390
 1.00000    -6.257282  -315.475018    -4.621941
-486.194810   -10.290851    -1109.102

 COMB DB-G1-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    10.322577    169.404791     3.220774
300.205014    30.954415     4191.295
 0.25000    10.322577    194.080295     3.220774
300.205014    30.228871     4339.391
 0.50000    10.322577    221.946521     3.220774
300.205014    30.643043     4478.843
 0.75000    10.322577    252.004941     3.220774
300.205014    32.305605     4619.073
 1.00000    10.322577    283.777838     3.220774
300.205014    35.743000     4755.120

 COMB DB-G1-4 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -6.112017  -449.726168    -4.526670
-478.076238   -10.889499    -1447.129
 0.25000    -6.112017  -417.913437    -4.526670
-478.087717    -9.884860    -1390.584
 0.50000    -6.112017  -387.212043    -4.526670
-478.560946    -9.393638    -1334.040
 0.75000    -6.112017  -358.608410    -4.526670
-479.091091   -10.053013    -1277.495
 1.00000    -6.112017  -332.961509    -4.526670
-479.628203   -11.313935    -1220.951

 COMB DB-G2-1 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     1.612390     93.719694     1.042212
115.332893    17.183164     1656.855
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD            >
                             1297

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
        T           M2           M3
 0.25000     1.612390    110.098839     1.042212
135.871866    17.145700     1723.595
 0.50000     1.612390    128.595075     1.042212
156.449623    17.690756     1774.607
 0.75000     1.612390    148.657681     1.042212
177.195651    18.888886     1817.639
 1.00000     1.612390    169.684738     1.042212
205.440618    20.616419     1848.913

 COMB DB-G2-1 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -7.124192  -228.814132    -2.288829
-304.356471    -3.363816   -501.744231
 0.25000    -7.124192  -207.654537    -2.288829
-276.042915    -2.444419    -482.683203
 0.50000    -7.124192  -187.271390    -2.288829
-255.131230    -1.680228   -463.620174
 0.75000    -7.124192  -168.285819    -2.288829
-234.379698    -1.682197   -444.558145
 1.00000    -7.124192  -151.262067    -2.288829
-213.668295    -1.724789   -425.496116

 COMB DB-G2-2 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     4.981241    183.741485     2.552973
152.334550    34.556991     3221.658
 0.25000     4.981241    216.504350     2.552973
152.334550    34.072170     3355.812
 0.50000     4.981241    253.503027     2.552973
152.334550    34.832400     3456.316
 0.75000     4.981241    293.626284     2.552973
152.334550    36.935572     3537.360
 1.00000     4.981241    335.598533     2.552973
152.334550    40.146356     3593.025

 COMB DB-G2-2 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -5.759864  -449.953221    -4.335912
-171.492688    -4.980227   -968.733104
 0.25000    -5.759864  -407.714320    -4.335912
-171.492688    -4.374728   -931.972206
 0.50000    -5.759864  -366.951134    -4.335912
-171.492688    -3.879129   -895.211308
 0.75000    -5.759864  -328.973383    -4.335912
-171.492688    -3.293366   -858.450410
 1.00000    -5.759864  -294.920781    -4.335912
-171.492688    -4.894121   -821.689512

 COMB DB-G2-3 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     7.812067    184.051027     2.638749
191.365752    32.944772     3969.352
 0.25000     7.812067    213.867953     2.638749
191.365752    32.304168     4121.401
 0.50000     7.812067    247.537920     2.638749
191.365752    32.634071     4250.892
 0.75000     7.812067    284.051884     2.638749
191.365752    34.644450     4369.795
 1.00000     7.812067    322.248966     2.638749
191.365752    38.263524     4474.227

 COMB DB-G2-3 ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    -6.639384  -473.323744    -4.550084
-426.287011    -6.343140    -1305.777
 0.25000    -6.639384  -434.884002    -4.550084
-425.886850    -5.342947    -1255.357
 0.50000    -6.639384  -397.787682    -4.550084
-425.431799    -4.486027    -1204.937
 0.75000    -6.639384  -363.226730    -4.550084
-425.030230    -5.187986    -1154.516
 1.00000    -6.639384  -332.236127    -4.550084
-424.701035    -6.126413    -1104.096
Program  SAP2000  Nonlinear  Version  7.42
         File:하행S11-S1503.OUT

                    Page
<            MOVING          LOAD            >
                             1298

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000     7.428222    169.075414     2.449466
```

```
367.856747   30.189461   4198.529
 0.25000    7.428222   194.195079    2.449466
367.856747   29.873400   4351.285
 0.50000    7.428222   222.562390    2.449466
367.856747   30.517609   4491.652
 0.75000    7.428222   253.325351    2.449466
367.856747   32.204141   4628.762
 1.00000    7.428222   285.505957    2.449466
367.856747   35.426147   4761.098

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -6.660289  -451.175912   -4.278638
-398.008938   -7.287339   -1442.626
 0.25000   -6.660289  -418.790861   -4.278638
-398.008938   -6.442169   -1386.299
 0.50000   -6.660289  -387.537258   -4.278638
-398.008938   -5.735502   -1329.973
 0.75000   -6.660289  -358.419280   -4.278638
-398.008938   -6.327064   -1273.647
 1.00000   -6.660289  -332.310759   -4.278638
-398.008938   -7.138540   -1217.320

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    1.120046   22.519493    0.609951
337.313588    6.134968   1321.751
 0.25000    1.120046   23.133157    0.609951
335.273057    6.340601   1361.859
 0.50000    1.120046   23.829354    0.609951
333.775388    6.630492   1412.889
 0.75000    1.120046   24.584039    0.609951
332.286577    7.004473   1473.439
 1.00000    1.120046   25.370685    0.609951
330.795903    7.440706   1541.367

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -2.294181   -86.521309   -1.723769
-60.253426   -7.581375  -543.917095
 0.25000   -2.294181   -85.729591   -1.723769
-61.742805   -6.071665  -521.559304
 0.50000   -2.294181   -84.962910   -1.723769
-63.230741   -4.939587  -499.215622
 0.75000   -2.294181   -84.248282   -1.723769
-64.727789   -4.227925  -476.881376
 1.00000   -2.294181   -83.610270   -1.723769
-66.768486   -3.979574  -454.547131

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    5.759785   83.702081    1.595395
617.626949   18.148320   2635.901
 0.25000    5.759785   90.268975    1.595395
598.729958   18.052390   2701.928
 0.50000    5.759785   97.714424    1.595395
584.869703   18.526778   2784.779
 0.75000    5.759785  105.765815    1.595395
571.080126   19.561686   2893.322
 1.00000    5.759785  114.203108    1.595395
557.276908   21.022179   3017.854

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -3.466382  -223.722547   -3.025300
-183.002586   -8.033479  -959.837884
 0.25000   -3.466382  -215.251095   -3.025300
-196.801194   -6.582537  -921.554512
 0.50000   -3.466382  -207.051338   -3.025300
-210.585325   -5.457842  -883.276355
 0.75000   -3.466382  -199.408788   -3.025300
-224.449003   -5.836958  -844.998199
 1.00000   -3.466382  -192.581625   -3.025300
-243.347820   -6.750579  -806.720042
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1299

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    4.677990   169.054475    2.608831
429.740765   32.880074   3837.121
 0.25000    4.677990   199.325817    2.608831
429.754290   32.664369   4003.753
 0.50000    4.677990   233.507608    2.608831
430.377409   33.494469   4140.284
 0.75000    4.677990   270.576995    2.608831
430.998457   35.439805   4254.121
 1.00000    4.677990   309.355414    2.608831
431.789109   38.291838   4342.896

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.417376  -459.492629   -4.854034
-138.546838   -8.825488   -1294.446
 0.25000   -4.417376  -420.467862   -4.854034
-137.366363   -7.444118   -1243.724
 0.50000   -4.417376  -382.807266   -4.854034
-136.334938   -6.351505   -1193.005
 0.75000   -4.417376  -347.720948   -4.854034
-135.361412   -5.591557   -1142.285
 1.00000   -4.417376  -316.258105   -4.854034
-134.461369   -7.040233   -1091.565

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    5.855299   169.172147    2.460700
431.992483   31.611921   4189.092
 0.25000    5.855299   193.961692    2.460700
431.992483   31.449039   4338.420
 0.50000    5.855299   221.955916    2.460700
431.992483   32.160628   4477.714
 0.75000    5.855299   252.314363    2.460700
431.992483   34.392777   4617.246
 1.00000    5.855299   284.071881    2.460700
431.992483   37.447411   4752.210

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.411035  -449.816431   -4.968878
-334.832581  -10.704970   -1440.710
 0.25000   -8.411035  -417.857157   -4.968878
-334.832581   -8.499941   -1384.265
 0.50000   -8.411035  -387.014522   -4.968878
-334.832581   -6.593797   -1327.820
 0.75000   -8.411035  -358.279505   -4.968878
-334.832581   -6.562632   -1271.376
 1.00000   -8.411035  -332.514112   -4.968878
-334.832583   -7.151324   -1214.932

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    9.967524   21.730381    2.208935
 45.149576    6.180372   1580.779
 0.25000    9.967524   22.141153    2.208935
 46.149523    5.082981   1635.097
 0.50000    9.967524   22.565032    2.208935
 47.228780    4.490041   1691.217
 0.75000    9.967524   23.035667    2.208935
 48.386738    4.556049   1748.720
 1.00000    9.967524   23.516922    2.208935
 49.623283    5.315308   1809.141

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -3.433935  -99.682258   -1.351186
-399.447645   -8.638366  -718.776294
 0.25000   -3.433935  -99.161278   -1.351186
-398.130533   -8.341358  -689.422778
 0.50000   -3.433935  -98.647862   -1.351186
-396.891563   -8.667632  -659.965516
 0.75000   -3.433935  -98.161521   -1.351186
-395.731784   -10.093494  -630.546278
 1.00000   -3.433935  -97.719735   -1.351186
-394.651305   -12.124722  -601.127535
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1300

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.413771   74.356971    2.607379
145.091140   15.464829   3010.451
 0.25000   12.413771   77.631921    2.607379
152.217875   15.061580   3094.622
 0.50000   12.413771   81.298654    2.607379
159.920621   15.473898   3187.372
 0.75000   12.413771   85.212823    2.607379
168.178673   17.109604   3295.177
 1.00000   12.413771   89.215315    2.607379
176.991076   19.907208   3407.872

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.838570  -223.510237   -3.315780
-680.304582  -12.648338   -1281.703
 0.25000   -8.838570  -219.177831   -3.315780
-670.898101  -11.145946   -1230.713
 0.50000   -8.838570  -214.907982   -3.315780
-662.048723  -10.544247   -1179.615
 0.75000   -8.838570  -210.863295   -3.315780
-653.763568  -11.627674   -1128.532
 1.00000   -8.838570  -207.188741   -3.315780
-646.048087  -13.594671   -1077.541

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.263290   144.982143    3.680960
127.227597   30.893747   4296.799
 0.25000   12.263290   167.065717    3.680960
122.562670   30.271025   4472.963
 0.50000   12.263290   191.798155    3.680960
118.208418   30.772434   4619.730
 0.75000   12.263290   218.207533    3.680960
114.159426   32.783554   4739.722
 1.00000   12.263290   245.193797    3.680960
110.412460   36.150158   4826.606

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.189701  -429.302058   -4.641460
-539.029367  -14.149772   -1737.649
 0.25000   -8.189701  -400.094596   -4.641460
-543.089684  -12.818337   -1669.814
 0.50000   -8.189701  -371.294321   -4.641460
-547.455577  -12.440820   -1602.023
 0.75000   -8.189701  -344.013744   -4.641460
-552.131833  -13.485074   -1534.081
 1.00000   -8.189701  -319.248980   -4.641460
-557.125308  -15.322046   -1466.172

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.799675   148.083648    3.978911
313.441513   33.399255   4665.634
 0.25000   12.799675   166.258246    3.978911
310.298047   32.597288   4832.626
 0.50000   12.799675   186.611692    3.978911
307.368181   32.928036   4984.589
 0.75000   12.799675   208.345178    3.978911
304.648892   34.837216   5126.438
 1.00000   12.799675   230.553418    3.978911
302.136555   38.183941   5245.577

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.183737  -430.015750   -4.695406
-513.229838  -14.480860   -1891.556
 0.25000   -8.183737  -405.979620   -4.695406
-516.039667  -13.345740   -1817.704
 0.50000   -8.183737  -382.278490   -4.695406
-519.057676  -13.125500   -1743.903
 0.75000   -8.183737  -359.828002   -4.695406
-522.288526  -14.341264   -1669.964
 1.00000   -8.183737  -339.446891   -4.695406
-525.738965  -16.500346   -1596.109
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1301

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    2.533719   78.197087    0.889477
 98.833169   15.781239   1716.099
 0.25000    2.533719   90.551440    0.889477
116.870126   16.224122   1786.192
 0.50000    2.533719   104.383011   0.889477
136.319532   17.117865   1846.676
 0.75000    2.533719   119.149063   0.889477
157.177059   18.822560   1883.133
 1.00000    2.533719   134.246973   0.889477
179.422227   21.009775   1908.161

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -6.107311  -202.675860   -2.575573
-291.968962   -5.823922  -647.729919
 0.25000   -6.107311  -186.336397   -2.575573
-268.074794   -4.458537  -623.138288
 0.50000   -6.107311  -170.226226   -2.575573
-245.621538   -3.459456  -598.641326
 0.75000   -6.107311  -154.970693   -2.575573
-224.594818   -3.071876  -574.025168
 1.00000   -6.107311  -141.110190   -2.575573
-204.997754   -2.963485  -549.480463

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    5.100066   154.321214    2.631381
143.852863   33.677969   3369.613
 0.25000    5.100066   179.021237    2.631381
143.852863   33.510196   3508.531
 0.50000    5.100066   206.677452    2.631381
143.852863   34.264932   3615.567
 0.75000    5.100066   236.208928    2.631381
143.852863   36.158187   3698.013
 1.00000    5.100066   266.385548    2.631381
143.852863   38.964442   3744.623

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -5.952846  -399.929038   -4.142977
-165.227126   -8.610285   -1263.111
 0.25000   -5.952846  -367.265927   -4.142977
-165.227126   -7.531995   -1215.354
 0.50000   -5.952846  -335.063394   -4.142977
-165.227126   -6.926180   -1167.778
 0.75000   -5.952846  -304.557344   -4.142977
-165.227126   -7.082314   -1119.971
 1.00000   -5.952846  -276.857231   -4.142977
-165.227126   -7.585372   -1072.287

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    9.668067   157.610918    3.024081
173.841529   32.616229   4323.833
 0.25000    9.668067   180.170312    3.024081
173.841514   32.488182   4489.927
 0.50000    9.668067   205.426207    3.024081
173.841263   33.557525   4631.194
 0.75000    9.668067   232.394622    3.024081
173.941013   35.786851   4752.450
 1.00000    9.668067   259.952203    3.024081
174.266503   39.182823   4841.740

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.115498  -439.863811   -4.611891
-446.113482  -10.609198   -1707.853
 0.25000   -8.115498  -410.035564   -4.611891
-445.197041  -9.375972   -1641.909
 0.50000   -8.115498  -380.627846   -4.611891
-444.277241   -8.854525   -1576.175
 0.75000   -8.115498  -352.774328   -4.611891
-443.368789   -9.297866   -1510.226
 1.00000   -8.115498  -327.471694   -4.611891
-442.495989  -10.321875   -1444.366
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1302

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    8.975614   146.845481    2.979877
372.602407   31.451894   4666.907
 0.25000    8.975614   165.918659    2.979877
372.602407   31.306562   4839.135
 0.50000    8.975614   187.274587    2.979877
372.602407   32.282320   4994.000
 0.75000    8.975614   210.079277    2.979877
372.602407   34.429532   5133.957
 1.00000    8.975614   233.380743    2.979877
372.602407   37.821997   5247.416

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.333820  -432.342903   -4.616845
-405.538806  -12.270128   -1885.002
 0.25000   -8.333820  -407.120687   -4.616845
-405.538806  -10.840000   -1811.421
 0.50000   -8.333820  -382.254125   -4.616845
-405.538806  -10.410227   -1738.040
 0.75000   -8.333820  -358.697576   -4.616845
-405.538806  -10.441060   -1664.477
 1.00000   -8.333820  -337.307750   -4.616845
-405.538806  -11.528794   -1590.946

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    1.483694   23.079677    0.990424
378.955080    7.734397   1604.477
 0.25000    1.483694   23.558316    0.990424
377.337638    7.401280   1658.584
 0.50000    1.483694   24.096786    0.990424
375.820426    7.305532   1715.338
 0.75000    1.483694   24.671395    0.990424
374.401466    7.887563   1774.170
 1.00000    1.483694   25.258826    0.990424
373.079852    9.036853   1834.880

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -3.627161  -101.895392   -2.112024
-50.616695   -10.552108  -712.883210
 0.25000   -3.627161  -101.259464   -2.112024
-51.864966   -8.585465  -683.581567
 0.50000   -3.627161  -100.633143   -2.112024
-53.210259   -6.919030  -654.252999
 0.75000   -3.627161  -100.039504   -2.112024
-54.653467   -6.291402  -624.954679
 1.00000   -3.627161   -99.502836   -2.112024
-56.194597   -6.471628  -594.731696

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    5.485319   77.394799    2.534901
639.764282   21.440520   3005.390
 0.25000    5.485319   81.731710    2.534901
627.543526   20.441207   3091.503
 0.50000    5.485319   86.606324    2.534901
616.082069   20.116709   3184.564
 0.75000    5.485319   91.808127    2.534901
605.363932   20.946389   3290.395
 1.00000    5.485319   97.126051    2.534901
595.380167   22.698442   3398.294

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -5.231201  -229.589462   -3.402835
-155.121939   -12.685119   -1264.606
 0.25000   -5.231201  -223.832334   -3.402835
-164.563249   -10.832860   -1204.979
 0.50000   -5.231201  -218.162169   -3.402835
-174.752448   -9.567982   -1155.120
 0.75000   -5.231201  -212.788031   -3.402835
-185.669253   -9.726396   -1105.248
 1.00000   -5.231201  -207.925912   -3.402835
-197.328187   -10.827273   -1055.488
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1303

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    5.174126   144.697122    3.078834
483.262344   34.475960   4227.306
 0.25000    5.174126   167.043847    3.078834
486.628535   33.784376   4401.550
 0.50000    5.174126   192.054278    3.078834
490.275237   34.014181   4546.147
 0.75000    5.174126   218.761350    3.078834
494.195553   35.710004   4663.492
 1.00000    5.174126   246.051927    3.078834
498.381941   38.552935   4746.652

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -6.470364  -426.208081   -4.912962
-149.110009   -15.008763   -1687.152
 0.25000   -6.470364  -396.668917   -4.912962
-144.072367   -12.804485   -1621.190
 0.50000   -6.470364  -367.548500   -4.912962
-139.302797   -11.245921   -1555.344
 0.75000   -6.470364  -339.984605   -4.912962
-134.815576   -10.877242   -1489.355
 1.00000   -6.470364  -314.900984   -4.912962
-130.609241   -11.389535   -1423.428

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000    7.384715   147.480872    2.941015
463.596057   33.178793   4655.245
 0.25000    7.384715   165.848789    2.941015
465.776596   33.157919   4823.073
 0.50000    7.384715   186.407943    2.941015
468.139968   34.045064   4975.518
 0.75000    7.384715   208.361187    2.941015
470.681536   36.433755   5116.913
 1.00000    7.384715   230.794064    2.941015
473.397390   39.985302   5234.660

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -9.657968  -429.879055   -5.415465
-356.460740   -16.578985   -1920.364
 0.25000   -9.657968  -405.597823   -5.415465
-353.086442   -13.975479   -1845.154
 0.50000   -9.657968  -381.658743   -5.415465
-349.889999   -12.014856   -1770.065
 0.75000   -9.657968  -358.984805   -5.415465
-346.874372   -11.351085   -1694.095
 1.00000   -9.657968  -338.383642   -5.415465
-344.043857   -11.947214   -1599.922

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   10.322577   184.051027    3.220774
617.626949   34.556991   4198.529
 0.25000   10.322577   216.504350    3.220774
598.729958   34.072170   4351.285
 0.50000   10.322577   253.503027    3.220774
584.869703   34.832400   4491.652
 0.75000   10.322577   293.626284    3.220774
571.080126   36.935572   4628.762
 1.00000   10.322577   335.598533    3.220774
557.276908   40.146356   4761.098

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -8.411035  -473.323744   -4.968878
-649.978615   -11.070227   -1447.129
 0.25000   -8.411035  -434.884002   -4.968878
-634.826544   -9.884860   -1390.584
 0.50000   -8.411035  -397.787682   -4.968878
-623.651804   -9.393638   -1334.040
 0.75000   -8.411035  -363.226730   -4.968878
-612.561078   -10.053013   -1277.495
 1.00000   -8.411035  -332.961509   -4.968878
-601.481417   -11.313935   -1220.951
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1304

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.799675   157.610918    3.978911
639.764282   34.475960   4666.907
 0.25000   12.799675   180.170312    3.978911
627.543526   33.784376   4839.135
 0.50000   12.799675   206.677452    3.978911
616.082069   34.264932   4994.000
 0.75000   12.799675   236.208928    3.978911
605.363932   36.433755   5133.957
 1.00000   12.799675   266.385548    3.978911
595.380167   39.985302   5247.416

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -9.657968  -439.863811   -5.415465
-680.304582   -16.578985   -1920.364
 0.25000   -9.657968  -410.035564   -5.415465
-670.898101   -13.975479   -1845.154
 0.50000   -9.657968  -382.278490   -5.415465
-662.048723   -13.125500   -1770.065
 0.75000   -9.657968  -359.828002   -5.415465
-653.763568   -14.341264   -1674.095
 1.00000   -9.657968  -339.446891   -5.415465
-646.048087   -16.500346   -1599.922

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.799675   184.051027    3.978911
639.764282   34.556991   4666.907
 0.25000   12.799675   216.504350    3.978911
627.543526   34.072170   4839.135
 0.50000   12.799675   253.503027    3.978911
616.082069   34.832400   4994.000
 0.75000   12.799675   293.626284    3.978911
605.363932   36.935572   5133.957
 1.00000   12.799675   335.598533    3.978911
595.380167   40.146356   5247.416

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -9.657968  -473.323744   -5.415465
-680.304582   -16.578985   -1920.364
 0.25000   -9.657968  -434.884002   -5.415465
-670.898101   -13.975479   -1845.154
 0.50000   -9.657968  -397.787682   -5.415465
-662.048723   -13.125500   -1770.065
 0.75000   -9.657968  -363.226730   -5.415465
-653.763568   -14.341264   -1674.095
 1.00000   -9.657968  -339.446891   -5.415465
-646.048087   -16.500346   -1599.922

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   12.799675   184.051027    3.978911
639.764282   34.556991   4666.907
 0.25000   12.799675   216.504350    3.978911
627.543526   34.072170   4839.135
 0.50000   12.799675   253.503027    3.978911
616.082069   34.832400   4994.000
 0.75000   12.799675   293.626284    3.978911
605.363932   36.935572   5133.957
 1.00000   12.799675   335.598533    3.978911
595.380167   40.146356   5247.416

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -9.657968  -473.323744   -5.415465
-680.304582   -16.578985   -1920.364
 0.25000   -9.657968  -434.884002   -5.415465
-670.898101   -13.975479   -1845.154
```

```
 0.50000    -9.657968  -397.787682    -5.415465
-662.048723  -13.125500    -1770.065
 0.75000    -9.657968  -363.226730    -5.415465
-653.763568  -14.341264    -1674.095
 1.00000    -9.657968  -339.446891    -5.415465
-646.048087  -16.500346    -1599.922
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    1305

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM     101 ================== LENGTH =     4.957685

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     6.706760     37.196103     1.363999
160.938071     3.323685     1499.871
 0.25000     6.706760     37.724752     1.363999
162.169915     3.648350     1505.949
 0.50000     6.706760     38.319931     1.363999
163.403215     4.122715     1519.655
 0.75000     6.706760     38.964189     1.363999
164.645343     4.741662     1542.947
 1.00000     6.706760     39.639110     1.363999
166.333086     5.521620     1573.154

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -1.664562    -61.149315    -1.603128
-217.225283   -9.254580   -456.482931
 0.25000    -1.664562    -60.471237    -1.603128
-215.535657   -8.492264   -434.773217
 0.50000    -1.664562    -59.819941    -1.603128
-214.289044   -8.150323   -413.063502
 0.75000    -1.664562    -59.213773    -1.603128
-213.050775   -8.380951   -391.353787
 1.00000    -1.664562    -58.670179    -1.603128
-211.813897   -9.148379   -369.644072

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     8.076643     108.492159     2.080440
329.930424    16.201080     2991.610
 0.25000     8.076643     113.778500     2.080440
341.019643    16.317314     2993.065
 0.50000     8.076643     119.730141     2.080440
352.120718    16.929672     3010.541
 0.75000     8.076643     126.172274     2.080440
363.307420    18.187271     3058.634
 1.00000     8.076643     132.918756     2.080440
378.501147    20.010300     3122.805

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -8.049675    -174.516147    -2.882557
-455.589853   -8.864714   -821.503583
 0.25000    -8.049675    -167.738191    -2.882557
-440.378578   -8.022458   -782.787943
 0.50000    -8.049675    -161.225650    -2.882557
-429.150998   -7.713849   -744.072303
 0.75000    -8.049675    -155.164096    -2.882557
-418.002724   -8.012650   -705.356662
 1.00000    -8.049675    -149.728268    -2.882557
-406.866481   -8.859118   -666.641022

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     8.177673     206.492312     3.334959
250.271890    34.440459     4345.631
 0.25000     8.177673     237.221269     3.334959
247.983144    34.120518     4431.485
 0.50000     8.177673     271.821330     3.334959
246.464488    34.812839     4481.898
 0.75000     8.177673     309.256877     3.334959
244.911081    36.714022     4516.751
 1.00000     8.177673     348.340873     3.334959
243.295344    39.688096     4519.772

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -6.177631    -407.771842    -4.622120
-309.758910   -9.799799    -1108.889
 0.25000    -6.177631    -368.509879    -4.622120
-311.469062   -8.953446    -1056.913
 0.50000    -6.177631    -330.664042    -4.622120
-313.108745   -8.840490    -1004.938
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    1306

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P              V2              V3
        T          M2             M3
 0.75000    -6.177631    -295.422838    -4.622120
-314.704884   -9.247680   -952.962119
 1.00000    -6.177631    -263.822812    -4.622120
-317.029607   -10.141636   -900.986480

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    10.276169     213.000768     3.201596
355.599499    36.118154     4755.418
 0.25000    10.276169     238.271608     3.201596
355.116230    35.862675     4815.444
 0.50000    10.276169     266.724147     3.201596
354.894905    36.668022     4858.656
 0.75000    10.276169     297.508903     3.201596
354.894905    38.619198     4910.005
 1.00000    10.276169     329.649680     3.201596
354.894905    41.577345     4946.997

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -6.082470    -394.266121    -4.497775
-386.455409   -10.564397    -1220.879
 0.25000    -6.082470    -361.978970    -4.497775
-386.574466   -10.106160    -1163.592
 0.50000    -6.082470    -330.856818    -4.497775
-387.051839   -10.042761    -1106.305
 0.75000    -6.082470    -301.877074    -4.497775
-387.527935   -10.413160    -1049.019
 1.00000    -6.082470    -275.889869    -4.497775
-388.040869   -11.201020    -991.731857

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     1.387042     108.698906     1.460005
153.303632    20.812376     1849.216
 0.25000     1.387042     125.471627     1.460005
174.037745    20.343288     1885.715
 0.50000     1.387042     144.355458     1.460005
194.810694    20.482411     1903.511
 0.75000     1.387042     164.792180     1.460005
215.748752    21.367799     1917.598
 1.00000     1.387042     186.167813     1.460005
244.160313    22.845321     1915.216

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -7.307149    -210.708865    -2.161733
-263.605085   -1.461976   -425.450101
 0.25000    -7.307149    -189.234475    -2.161733
-235.152928   -1.630134   -405.701306
 0.50000    -7.307149    -168.574160    -2.161733
-214.116965   -1.799648   -385.952511
 0.75000    -7.307149    -149.341097    -2.161733
-193.238691   -1.972691   -366.203716
 1.00000    -7.307149    -132.093600    -2.161733
-172.394719   -2.145882   -346.454921

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     4.690634     212.702272     2.853274
154.686666    40.563718     3593.029
 0.25000     4.690634     246.255548     2.853274
154.686666    39.715338     3668.517
 0.50000     4.690634     284.032667     2.853274
154.686666    40.025554     3704.580
 0.75000     4.690634     324.906512     2.853274
154.686666    41.707890     3729.766
 1.00000     4.690634     367.580944     2.853274
154.686666    44.514367     3720.020

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -5.776955    -414.938933    -4.121891
-159.348149   -4.462995   -821.707223
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    1307

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P              V2              V3
        T          M2             M3
 0.25000    -5.776955    -372.070147    -4.121891
-159.348149   -4.721707   -783.548593
 0.50000    -5.776955    -330.748331    -4.121891
-159.348149   -4.982413   -745.389963
 0.75000    -5.776955    -292.271239    -4.121891
-159.348149   -5.246577   -707.231333
 1.00000    -5.776955    -257.766805    -4.121891
-159.348149   -5.527362   -669.072702

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     7.641315     223.051581     2.821265
274.785208    38.465699     4474.677
 0.25000     7.641315     253.587719     2.821265
275.131080    37.927085     4547.309
 0.50000     7.641315     287.966033     2.821265
275.547007    38.610641     4590.636
 0.75000     7.641315     325.162994     2.821265
276.019538    40.541234     4631.863
 1.00000     7.641315     363.999012     2.821265
276.510897    43.518996     4647.541

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -6.749457    -424.414523    -4.257322
-319.193598   -5.327844    -1103.979
 0.25000    -6.749457    -385.401610    -4.257322
-318.664367   -5.726321    -1052.418
 0.50000    -6.749457    -347.796978    -4.257322
-318.100599   -6.130391    -1000.856
 0.75000    -6.749457    -312.781692    -4.257322
-317.602454   -6.542708    -949.294542
 1.00000    -6.749457    -281.379909    -4.257322
-317.157265   -6.974701    -897.732967

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     7.303878     212.431290     2.584391
362.111354    36.053032     4761.111
 0.25000     7.303878     238.156972     2.584391
362.111354    35.449346     4825.262
 0.50000     7.303878     267.121124     2.584391
362.111354    35.845187     4869.972
 0.75000     7.303878     298.459570     2.584391
362.111354    37.265484     4919.350
 1.00000     7.303878     331.178547     2.584391
362.111354    40.233324     4952.138

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -6.759759    -395.806564    -4.081064
-370.149829   -6.382801    -1217.360
 0.25000    -6.759759    -362.938574    -4.081064
-370.149829   -6.759811    -1160.236
 0.50000    -6.759759    -331.256663    -4.081064
-370.149829   -7.142039    -1103.112
 0.75000    -6.759759    -301.755835    -4.081064
-370.149829   -7.530826    -1045.988
 1.00000    -6.759759    -275.300889    -4.081064
-370.149829   -7.933197    -988.864710

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     1.004839     39.597053     0.966881
212.199972     8.022970     1540.789
 0.25000     1.004839     40.225767     0.966881
210.156968     7.387686     1545.910
 0.50000     1.004839     40.936722     0.966881
208.656309     6.919694     1559.144
 0.75000     1.004839     41.705609     0.966881
207.164655     6.587489     1582.100
 1.00000     1.004839     42.505642     0.966881
205.671370     8.161262     1612.949
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    1308

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -2.368367    -63.816875    -1.625149
-162.016270   -3.832677   -454.779137
 0.25000    -2.368367    -63.013298    -1.625149
-163.507587   -2.965702   -432.985792
 0.50000    -2.368367    -62.235956    -1.625149
-164.997208   -2.983046   -411.192446
 0.75000    -2.368367    -61.511781    -1.625149
-166.495622   -3.001141   -389.399101
 1.00000    -2.368367    -60.865263    -1.625149
-168.537798   -3.020130   -367.605756

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     5.748683     113.415699     1.767289
448.956079    21.903664     3016.983
 0.25000     5.748683     120.143294     1.767289
430.039901    21.030845     3022.597
 0.50000     5.748683     127.746412     1.767289
416.154494    20.644232     3041.130
 0.75000     5.748683     135.969576     1.767289
402.342810    21.010069     3085.872
 1.00000     5.748683     144.529776     1.767289
388.518110    23.306147     3144.290

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -3.431062    -185.182032    -2.897440
-325.350342   -6.528501   -807.037185
 0.25000    -3.431062    -176.583764    -2.897440
-339.160110   -6.535305   -768.805345
 0.50000    -3.431062    -168.270221    -2.897440
-352.954526   -6.547270   -730.573505
 0.75000    -3.431062    -160.525739    -2.897440
-366.822347   -6.559359   -692.341665
 1.00000    -3.431062    -153.607655    -2.897440
-385.731888   -6.597890   -654.109825

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     4.363401     208.449247     3.023830
293.050412    39.273266     4342.253
 0.25000     4.363401     239.450673     3.023830
293.967759    38.044963     4427.498
 0.50000     4.363401     274.351537     3.023830
294.956234    37.817810     4477.263
 0.75000     4.363401     312.114260     3.023830
296.005867    38.896618     4510.560
 1.00000     4.363401     351.541279     3.023830
297.280257    42.308524     4512.470

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -4.508927    -409.877732    -4.638784
-249.123564   -6.643994   -1091.838
 0.25000    -4.508927    -370.271110    -4.638784
-247.810138   -6.666404   -1040.488
 0.50000    -4.508927    -332.094517    -4.638784
-246.675565   -7.088947   -989.138611
 0.75000    -4.508927    -296.547016    -4.638784
-245.592963   -7.312890   -937.788911
 1.00000    -4.508927    -264.666742    -4.638784
-244.573266   -7.551055   -886.439211

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     5.570618     212.867282     2.907778
372.593563    38.316211     4751.974
 0.25000     5.570618     238.254861     2.907778
372.593561    37.311916     4812.557
 0.50000     5.570618     266.838066     2.907778
372.593561    37.276631     4856.078
 0.75000     5.570618     297.764420     2.907778
372.593561    38.522629     4906.339
 1.00000     5.570618     330.053218     2.907778
372.593561    41.486751     4922.410
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    1309

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -8.559454    -394.292943    -4.465625
-359.933819   -6.530693    -1215.069
 0.25000    -8.559454    -361.857087    -4.465625
-359.933819   -6.847479    -1157.963
 0.50000    -8.559454    -330.591786    -4.465625
-359.933819   -7.167569    -1100.858
 0.75000    -8.559454    -301.478966    -4.465625
-359.933819   -7.492907    -1043.753
 1.00000    -8.559454    -275.371705    -4.465625
-359.933820   -7.832026    -986.647875

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    10.182515     37.705411     1.642501
147.538265    3.847046     1809.922
 0.25000    10.182515     38.115870     1.642501
148.572428    4.160065     1818.941
 0.50000    10.182515     38.573378     1.642501
149.686213    4.830737     1830.051
 0.75000    10.182515     39.060498     1.642501
150.878683    5.778249     1842.520
 1.00000    10.182515     39.558150     1.642501
152.150676    7.002452     1855.896

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -3.287257    -71.668519    -1.691374
-243.359278   -9.614304   -601.026415
 0.25000    -3.287257    -71.154746    -1.691374
-242.071640   -9.281168   -572.282053
 0.50000    -3.287257    -70.649727    -1.691374
-240.862528   -9.584897   -543.549831
 0.75000    -3.287257    -70.172727    -1.691374
-239.732989   -10.696835  -514.788466
 1.00000    -3.287257    -69.741183    -1.691374
-238.682175   -12.126924  -486.088021

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    12.418057     102.633691     2.474499
299.958072    17.623663     3409.013
 0.25000    12.418057     106.047261     2.474499
307.337895    18.439527     3415.815
 0.50000    12.418057     109.852514     2.474499
315.291436    19.792128     3429.867
 0.75000    12.418057     113.903838     2.474499
323.797615    21.705146     3457.464
 1.00000    12.418057     118.042741     2.474499
332.875960    24.048402     3491.588

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -8.833386    -176.362746    -3.051719
-462.575840   -10.059707    -1077.406
 0.25000    -8.833386    -172.089897    -3.051719
-453.384295   -10.055258    -1026.365
 0.50000    -8.833386    -167.889906    -3.051719
-444.751935   -10.687322    -975.490997
 0.75000    -8.833386    -163.922774    -3.051719
-436.688556   -11.996340    -924.517646
 1.00000    -8.833386    -160.333767    -3.051719
-429.190057   -13.677409    -873.558901

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    12.110589     181.987446     3.514713
259.582037    34.479223     4827.563
 0.25000    12.110589     205.008800     3.514713
254.841958    35.059619     4901.316
 0.50000    12.110589     230.684796     3.514713
250.411718    36.496916     4943.545
 0.75000    12.110589     258.004525     3.514713
246.280319    38.868332     4957.336
 1.00000    12.110589     285.920301     3.514713
242.453823    41.949872     4938.890
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    1310

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -7.994034    -367.223961    -4.417253
-353.940333   -11.970081    -1466.066
 0.25000    -7.994034    -338.406147    -4.417253
-357.838580   -12.014455    -1397.212
 0.50000    -7.994034    -310.082211    -4.417253
-362.037407   -12.691483    -1328.483
 0.75000    -7.994034    -283.327810    -4.417253
-366.536726   -13.991423    -1259.565
 1.00000    -7.994034    -259.130118    -4.417253
-371.343704   -15.640294    -1190.778

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    12.712846     188.990990     3.449911
362.444208    37.380105     5246.033
 0.25000    12.712846     207.937291     3.449911
359.225477    37.770953     5300.522
 0.50000    12.712846     229.067219     3.449911
356.219484    39.073350     5337.110
 0.75000    12.712846     251.549852     3.449911
353.418198    41.505200     5361.247
 1.00000    12.712846     274.523013     3.449911
350.823417    44.652056     5366.739

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -7.965972    -362.292906    -4.393511
-407.455644   -13.829184    -1596.082
 0.25000    -7.965972    -338.577340    -4.393511
-410.115985   -13.714560    -1521.078
 0.50000    -7.965972    -315.268243    -4.393511
-412.979579   -14.204441    -1446.204
 0.75000    -7.965972    -293.250795    -4.393511
-416.050032   -15.424292    -1371.158
 1.00000    -7.965972    -273.335421    -4.393511
-419.332830   -17.009816    -1296.292

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     2.234941     91.622636     1.349336
136.336079    20.546863     1908.410
 0.25000     2.234941     104.500098     1.349336
155.045520    20.881733     1941.684
 0.50000     2.234941     118.855107     1.349336
175.197149    21.529360     1958.598
 0.75000     2.234941     134.138313     1.349336
196.709564    22.605316     1962.408
 1.00000     2.234941     149.750966     1.349336
219.666753    23.985631     1949.572

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -6.218731    -180.895096    -1.963452
-247.042877   -2.205581   -549.463255
 0.25000    -6.218731    -164.775160    -1.963452
-223.742458   -2.454306   -523.913749
 0.50000    -6.218731    -148.932964    -1.963452
-201.872345   -2.743863   -498.493877
 0.75000    -6.218731    -133.968482    -1.963452
-181.431913   -3.042217   -472.932153
 1.00000    -6.218731    -120.429696    -1.963452
-162.431319   -3.348025   -447.465388

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     4.742641     180.508214     2.656824
144.210762    39.225010     3744.645
 0.25000     4.742641     206.258244     2.656824
144.210762    39.289923     3811.649
 0.50000     4.742641     234.968576     2.656824
144.210762    40.041701     3845.336
 0.75000     4.742641     265.518746     2.656824
144.210762    41.679322     3851.775
 1.00000     4.742641     296.734635     2.656824
144.210762    43.986069     3824.476
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    1311

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -5.865879    -357.407945    -3.595930
-150.726757   -6.833123    -1072.304
 0.25000    -5.865879    -325.182817    -3.595930
-150.726757   -7.037940    -1022.564
 0.50000    -5.865879    -293.510203    -3.595930
-150.726757   -7.346712    -972.943888
 0.75000    -5.865879    -263.592716    -3.595930
-150.726757   -7.724684    -923.106248
 1.00000    -5.865879    -236.525398    -3.595930
-150.726757   -8.192274    -873.423385

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     9.430310     193.985978     2.940459
254.167593    38.176663     4842.290
 0.25000     9.430310     217.502681     2.940459
254.703829    38.902715     4907.946
 0.50000     9.430310     243.721148     2.940459
255.280436    40.321500     4946.353
 0.75000     9.430310     271.619002     2.940459
255.899753    42.576619     4961.631
 1.00000     9.430310     300.126468     2.940459
256.538593    45.455314     4951.151

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -8.095134    -380.383509    -4.015324
-327.257420   -7.849617    -1444.311
 0.25000    -8.095134    -350.955117    -4.015324
-326.484888   -8.497161    -1376.787
 0.50000    -8.095134    -322.031341    -4.015324
-325.741409   -9.325705    -1309.376
 0.75000    -8.095134    -294.610374    -4.015324
-325.031587   -10.220658   -1241.738
 1.00000    -8.095134    -269.990572    -4.015324
-324.359775   -11.200814   -1174.335

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     8.777175     187.863293     2.840645
354.928515    37.597253     5247.450
 0.25000     8.777175     207.747278     2.840645
354.928515    38.059073     5306.196
 0.50000     8.777175     229.917187     2.840645
354.928515    39.276007     5344.618
 0.75000     8.777175     253.507806     2.840645
354.928515    41.434698     5366.579
 1.00000     8.777175     277.612489     2.840645
354.928515    44.454250     5367.626

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -8.317374    -365.133679    -4.026772
-365.608614   -9.599920    -1590.986
 0.25000    -8.317374    -340.249670    -4.026772
-365.608614   -9.886906    -1516.287
```

0.50000 -8.317374 -315.792308 -4.026772
-365.608614 -10.503725 -1441.621
0.75000 -8.317374 -292.690243 -4.026772
-365.608614 -11.452805 -1366.847
1.00000 -8.317374 -271.786056 -4.026772
-365.608614 -12.512102 -1292.250

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.357996 39.573940 1.174271
234.591908 9.718043 1834.125
0.25000 1.357996 40.073178 1.174271
233.006045 9.004117 1842.605
0.50000 1.357996 40.632012 1.174271
231.517710 8.895481 1853.024
0.75000 1.357996 41.226847 1.174271
230.127751 9.436493 1865.585
1.00000 1.357996 41.834257 1.174271
228.835333 10.760904 1879.434
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1312

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.661245 -73.557289 -1.739022
-147.146304 -6.546598 -594.883729
0.25000 -3.661245 -72.930364 -1.739022
-148.424621 -5.045190 -566.361414
0.50000 -3.661245 -72.313994 -1.739022
-149.799791 -4.473547 -537.844177
0.75000 -3.661245 -71.731771 -1.739022
-151.273217 -4.689184 -509.301392
1.00000 -3.661245 -71.207132 -1.739022
-152.844396 -5.209662 -480.345464

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.388144 105.633962 2.137983
446.453083 24.132408 3397.294
0.25000 5.388144 110.156873 2.137983
434.463643 23.246410 3406.442
0.50000 5.388144 115.215785 2.137983
423.216077 23.213571 3420.775
0.75000 5.388144 120.600628 2.137983
412.709206 24.150495 3446.372
1.00000 5.388144 126.099583 2.137983
402.942637 26.234865 3476.796

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.096460 -182.853725 -2.966228
-292.890489 -10.984871 -1055.688
0.25000 -5.096460 -177.177697 -2.966228
-302.553304 -9.788586 -1000.767
0.50000 -5.096460 -171.597719 -2.966228
-312.955694 -9.447715 -951.003972
0.75000 -5.096460 -166.326883 -2.966228
-324.097866 -9.716033 -901.259314
1.00000 -5.096460 -161.573682 -2.966228
-335.974118 -10.367338 -851.593041

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.833965 181.235177 3.111709
326.736698 39.817175 4745.841
0.25000 4.833965 204.529707 3.111709
330.485613 39.069697 4819.219
0.50000 4.833965 230.493827 3.111709
334.525607 39.466627 4860.614
0.75000 4.833965 258.121201 3.111709
338.838877 41.118846 4873.093
1.00000 4.833965 286.352482 3.111709
343.429998 44.097431 4853.131

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.399025 -365.245953 -4.335591
-255.803466 -11.145125 -1423.605
0.25000 -6.399025 -336.102347 -4.335591
-251.039040 -10.287244 -1356.732
0.50000 -6.399025 -307.458667 -4.335591
-246.550458 -10.191199 -1289.883
0.75000 -6.399025 -280.402299 -4.335591
-242.341700 -10.666484 -1222.767
1.00000 -6.399025 -255.915824 -4.335591
-238.414507 -11.419766 -1155.977

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.042705 188.489209 3.100490
390.261143 40.246753 5234.367
0.25000 7.042705 207.636265 3.100490
392.739274 40.147260 5289.571
0.50000 7.042705 228.978853 3.100490
395.406048 41.059262 5326.279
0.75000 7.042705 251.688611 3.100490
398.257300 43.189562 5349.792
1.00000 7.042705 274.894744 3.100490
401.289650 46.498114 5354.253
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1313

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.708309 -362.186324 -4.410130
-372.792496 -10.561373 -1600.002
0.25000 -9.708309 -338.230320 -4.410130
-369.626634 -10.217631 -1524.760
0.50000 -9.708309 -314.685219 -4.410130
-366.642165 -10.523395 -1437.318
0.75000 -9.708309 -292.444883 -4.410130
-363.840142 -11.312547 -1362.649
1.00000 -9.708309 -272.318142 -4.410130
-361.226293 -12.333653 -1288.245

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.276169 223.051581 3.334959
448.956079 40.583718 4761.111
0.25000 10.276169 253.587719 3.334959
430.039901 39.715338 4825.262
0.50000 10.276169 287.966033 3.334959
416.154494 40.025554 4869.972
0.75000 10.276169 325.162994 3.334959
402.342810 41.707890 4919.350
1.00000 10.276169 367.580944 3.334959
388.518110 44.514367 4952.138

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.559454 -424.414523 -4.638784
-455.589853 -10.564397 -1220.879
0.25000 -8.559454 -385.401610 -4.638784
-440.378578 -10.106160 -1163.592

0.50000 -8.559454 -347.796978 -4.638784
-429.150998 -10.042761 -1106.305
0.75000 -8.559454 -312.781692 -4.638784
-418.002724 -10.413160 -1049.019
1.00000 -8.559454 -281.379909 -4.638784
-406.866481 -11.201020 -991.731857

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.712846 193.985976 3.514713
446.453083 40.246753 5247.450
0.25000 12.712846 217.502681 3.514713
434.463643 40.147260 5306.196
0.50000 12.712846 243.721148 3.514713
423.216077 41.059262 5344.618
0.75000 12.712846 271.619002 3.514713
412.709206 43.189562 5366.579
1.00000 12.712846 300.126468 3.514713
402.942637 46.498114 5367.626

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.708309 -380.383509 -4.417253
-462.575840 -13.829184 -1600.002
0.25000 -9.708309 -350.955117 -4.417253
-453.384295 -13.714560 -1524.760
0.50000 -9.708309 -322.031341 -4.417253
-444.751935 -14.204441 -1446.204
0.75000 -9.708309 -294.710374 -4.417253
-436.688556 -15.424292 -1371.158
1.00000 -9.708309 -273.335421 -4.417253
-429.190057 -17.009816 -1296.292

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.712846 223.051581 3.514713
448.956079 40.583718 5247.450
0.25000 12.712846 253.587719 3.514713
434.463643 40.147260 5306.196
0.50000 12.712846 287.966033 3.514713
423.216077 41.059262 5344.618
0.75000 12.712846 325.162994 3.514713
412.709206 43.189562 5366.579
1.00000 12.712846 367.580944 3.514713
402.942637 46.498114 5367.626
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1314

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.708309 -424.414523 -4.638784
-462.575840 -13.829184 -1600.002
0.25000 -9.708309 -385.401610 -4.638784
-453.384295 -13.714560 -1524.760
0.50000 -9.708309 -347.796978 -4.638784
-444.751935 -14.204441 -1446.204
0.75000 -9.708309 -312.781692 -4.638784
-436.688556 -15.424292 -1371.158
1.00000 -9.708309 -281.379909 -4.638784
-429.190057 -17.009816 -1296.292

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.712846 223.051581 3.514713
448.956079 40.583718 5247.450
0.25000 12.712846 253.587719 3.514713
434.463643 40.147260 5306.196
0.50000 12.712846 287.966033 3.514713
423.216077 41.059262 5344.618
0.75000 12.712846 325.162994 3.514713
412.709206 43.189562 5366.579
1.00000 12.712846 367.580944 3.514713
402.942637 46.498114 5367.626

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.708309 -424.414523 -4.638784
-462.575840 -13.829184 -1600.002
0.25000 -9.708309 -385.401610 -4.638784
-453.384295 -13.714560 -1524.760
0.50000 -9.708309 -347.796978 -4.638784
-444.751935 -14.204441 -1446.204
0.75000 -9.708309 -312.781692 -4.638784
-436.688556 -15.424292 -1371.158
1.00000 -9.708309 -281.379909 -4.638784
-429.190057 -17.009816 -1296.292

ELEM 102 ========== LENGTH = 4.958300

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.863482 55.656869 0.625875
297.311877 4.868081 1572.963
0.25000 6.863482 56.192812 0.625875
298.548587 5.809749 1541.030
0.50000 6.863482 56.794705 0.625875
299.786854 7.053859 1514.683
0.75000 6.863482 57.445142 0.625875
301.040740 8.561723 1495.729
1.00000 6.863482 58.125940 0.625875
302.726448 10.466529 1483.732

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.600280 -37.089922 -2.679330
-75.854430 -9.504524 -369.408536
0.25000 -1.600280 -36.406373 -2.679330
-74.164789 -7.408258 -347.948688
0.50000 -1.600280 -35.749698 -2.679330
-72.921202 -5.768254 -326.488839
0.75000 -1.600280 -35.138277 -2.679330
-71.685691 -4.659262 -305.028990
1.00000 -1.600280 -34.589602 -2.679330
-70.450640 -4.255748 -283.569141

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.123219 141.256028 1.587156
527.238314 18.836561 3122.461
0.25000 8.123219 146.615289 1.587156
538.370519 19.750330 3054.891
0.50000 8.123219 152.634042 1.587156
549.522111 21.250947 3003.404
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1315

F R A M E E L E M E N T I N T E R N A
L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 8.123219 159.137935 1.587156
560.757953 23.487962 2977.187
1.00000 8.123219 165.942996 1.587156
575.990462 26.441638 2967.233

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.138483 -133.763460 -3.862846
-251.303169 -8.981538 -666.311160
0.25000 -8.138483 -126.930973 -3.862846
-236.092354 -6.798823 -627.648352
0.50000 -8.138483 -120.364834 -3.862846
-224.895093 -5.221520 -588.985545
0.75000 -8.138483 -114.250921 -3.862846
-213.771163 -5.021047 -550.322737
1.00000 -8.138483 -108.764457 -3.862846
-202.652646 -5.665002 -511.659929

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.022866 250.349914 2.806517
422.187102 38.230829 4519.510
0.25000 8.022866 281.501225 2.806517
419.869120 38.649344 4515.513
0.50000 8.022866 316.489980 2.806517
418.276997 40.159713 4482.515
0.75000 8.022866 354.283408 2.806517
416.649769 42.911033 4420.488
1.00000 8.022866 393.697813 2.806517
414.957397 47.001210 4321.046

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.254545 -355.516925 -5.592413
-137.516515 -9.889227 -900.724943
0.25000 -6.254545 -315.947552 -5.592413
-137.517043 -8.078552 -848.462137
0.50000 -6.254545 -277.799928 -5.592413
-137.517043 -6.825002 -796.199331
0.75000 -6.254545 -242.260442 -5.592413
-137.734738 -7.047593 -743.936524
1.00000 -6.254545 -210.379250 -5.592413
-139.391273 -7.806801 -691.673718

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.231030 261.521954 2.745701
437.535057 40.046637 4946.943
0.25000 10.231030 287.140196 2.745701
437.028886 40.358389 4905.358
0.50000 10.231030 315.912385 2.745701
436.553470 41.716167 4854.765
0.75000 10.231030 346.991473 2.745701
436.085497 44.319430 4798.013
1.00000 10.231030 379.404040 2.745701
435.965266 48.124968 4723.796

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.131785 -336.292988 -5.418335
-303.205443 -10.770460 -991.650630
0.25000 -6.131785 -303.752936 -5.418335
-303.205443 -9.168946 -934.047787
0.50000 -6.131785 -272.382494 -5.418335
-303.205443 -8.051968 -876.444943
0.75000 -6.131785 -243.160308 -5.418335
-303.205443 -8.196157 -818.842100
1.00000 -6.131785 -216.938797 -5.418335
-303.205443 -8.790382 -761.239257

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.180791 125.351434 1.454794
197.326708 22.350986 1914.977
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1316

F R A M E E L E M E N T I N T E R N A
L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 1.180791 142.355202 1.454794
218.160701 21.946384 1917.407
0.50000 1.180791 161.451652 1.454794
239.043717 22.062596 1906.113
0.75000 1.180791 182.084083 1.454794
260.099581 22.815641 1883.492
1.00000 1.180791 203.643354 1.454794
288.594052 24.090045 1842.572

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.487954 -192.182279 -1.895449
-218.525284 -1.634389 -346.397628
0.25000 -7.487954 -170.536969 -1.895449
-190.082003 -1.924820 -326.325177
0.50000 -7.487954 -149.708714 -1.895449
-169.117977 -2.216838 -306.252726
0.75000 -7.487954 -130.311663 -1.895449
-148.303593 -2.511529 -286.180275
1.00000 -7.487954 -112.905596 -1.895449
-127.509455 -2.809457 -266.107824

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.416760 244.977052 2.783126
165.487960 43.671924 3710.997
0.25000 4.416760 278.991614 2.783126
165.487960 42.821380 3729.279
0.50000 4.416760 317.193146 2.783126
165.487960 43.128694 3709.392
0.75000 4.416760 358.457797 2.783126
165.487960 44.775030 3683.557
1.00000 4.416760 401.493120 2.783126
165.487960 47.507915 3578.884

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.874410 -379.141674 -4.111348
-155.195846 -4.692192 -669.103765
0.25000 -5.874410 -335.937067 -4.111348
-155.195846 -4.976681 -630.286951
0.50000 -5.874410 -294.285547 -4.111348
-155.195846 -5.279129 -591.470136
0.75000 -5.874410 -255.486117 -4.111348
-155.195846 -5.610628 -552.653322
1.00000 -5.874410 -220.670941 -4.111348
-155.195846 -5.947986 -513.836507

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.482528 266.657684 2.888432
382.203910 42.032327 4647.388
0.25000 7.482528 297.613696 2.888432
382.617328 42.089266 4628.395
0.50000 7.482528 332.378256 2.888432
383.119506 43.355588 4591.511
0.75000 7.482528 369.930901 2.888432
383.694180 45.917554 4536.496
1.00000 7.482528 409.095428 2.888432
384.240247 49.644575 4451.443

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.876056 -373.736266 -4.921595
-210.070110 -5.609244 -897.594362
0.25000 -6.876056 -334.417633 -4.921595
-210.070110 -6.133184 -845.516167

0.50000 -6.876056 -296.512836 -4.921595
-210.070110 -6.686096 -793.437971
0.75000 -6.876056 -261.204457 -4.921595
-210.070110 -7.272603 -741.359775
1.00000 -6.876056 -229.519387 -4.921595
-210.070110 -7.869540 -689.281579
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1317

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.191842 261.058645 2.709697
373.170673 38.383822 4952.211
0.25000 7.191842 287.138001 2.709697
373.170673 38.669460 4913.144
0.50000 7.191842 316.427555 2.709697
373.170673 39.989738 4866.114
0.75000 7.191842 348.065636 2.709697
373.170673 42.398437 4808.195
1.00000 7.191842 381.061313 2.709697
373.170673 45.769688 4729.163

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.928878 -338.150015 -4.362532
-356.944831 -6.533528 -988.919897
0.25000 -6.928878 -305.024546 -4.362532
-356.944831 -7.001575 -931.443873
0.50000 -6.928878 -273.089848 -4.362532
-356.944831 -7.496241 -873.967848
0.75000 -6.928878 -243.342186 -4.362532
-356.944831 -8.017276 -816.491823
1.00000 -6.928878 -216.648683 -4.362532
-356.944831 -8.549508 -759.015798

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.891224 58.626771 1.574504
80.024902 7.314056 1613.285
0.25000 0.891224 59.263988 1.574504
77.980457 7.470991 1579.064
0.50000 0.891224 59.982907 1.574504
76.480534 7.733151 1551.204
0.75000 0.891224 60.759124 1.574504
74.988888 8.099290 1531.320
1.00000 0.891224 61.565720 1.574504
73.494707 8.665388 1518.945

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.451086 -39.317217 -1.075744
-287.134832 -2.687162 -367.891295
0.25000 -2.451086 -38.507536 -1.075744
-288.629393 -2.716515 -346.364831
0.50000 -2.451086 -37.724210 -1.075744
-290.122132 -2.749700 -324.838367
0.75000 -2.451086 -36.994192 -1.075744
-291.622559 -2.545558 -303.311902
1.00000 -2.451086 -36.342064 -1.075744
-293.667053 -4.293454 -281.785438

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.736385 146.477504 2.330281
269.112314 22.036798 3144.836
0.25000 5.736385 153.296376 2.330281
250.181769 21.995217 3080.849
0.50000 5.736385 160.984609 2.330281
236.299939 22.478839 3031.058
0.75000 5.736385 169.286195 2.330281
222.487116 23.574924 3001.979
1.00000 5.736385 177.916916 2.330281
208.651907 25.260221 2985.204

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.412518 -144.591062 -2.553091
-496.633432 -6.072841 -654.509353
0.25000 -3.412518 -135.927198 -2.553091
-510.473475 -5.889791 -616.312878
0.50000 -3.412518 -127.549308 -2.553091
-524.289070 -5.776326 -578.116403
0.75000 -3.412518 -119.742111 -2.553091
-538.178532 -5.709105 -539.919927
1.00000 -3.412518 -112.763629 -2.553091
-557.104746 -5.673857 -501.723452
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1318

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.052159 252.387258 3.443281
150.828521 40.748869 4512.789
0.25000 4.052159 283.814998 3.443281
151.816170 40.298078 4508.105
0.50000 4.052159 319.107991 3.443281
152.893935 40.834121 4475.037
0.75000 4.052159 357.231831 3.443281
154.048965 42.517606 4412.227
1.00000 4.052159 396.992412 3.443281
155.380243 45.238618 4311.314

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.618915 -357.932803 -4.171332
-383.508213 -6.584663 -886.785142
0.25000 -4.618915 -318.015738 -4.171332
-382.933343 -6.803182 -835.149940
0.50000 -4.618915 -279.534329 -4.171332
-382.933343 -7.037041 -783.514738
0.75000 -4.618915 -243.689136 -4.171332
-382.933343 -7.295698 -731.879535
1.00000 -4.618915 -211.521235 -4.171332
-382.932809 -7.559078 -680.244333

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.302229 261.515021 3.518537
322.394468 40.154434 4942.600
0.25000 5.302229 287.251635 3.518537
322.394467 40.216324 4901.268
0.50000 5.302229 316.155966 3.518537
322.394467 41.204411 4851.017
0.75000 5.302229 347.378020 3.518537
322.394467 43.320816 4793.697
1.00000 5.302229 379.939891 3.518537
322.394467 46.451757 4717.693

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.769544 -336.301131 -4.306419
-407.173493 -6.564915 -986.821930
0.25000 -8.769544 -303.611166 -4.306419
-407.173493 -6.973922 -929.424251

```
 0.50000    -8.769544 -272.096383    -4.306419
-407.173493    -7.403313 -872.026571
 0.75000    -8.769544 -242.739958    -4.306419
-407.173493    -7.859120 -814.628892
 1.00000    -8.769544 -216.397258    -4.306419
-407.173493    -8.322623 -757.231213

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    10.380864    58.545896     1.148670
308.966809    4.563553     1855.593
 0.25000    10.380864    58.971317     1.148670
310.037853    6.236762     1817.707
 0.50000    10.380864    59.443781     1.148670
311.188580    8.276921     1782.139
 0.75000    10.380864    59.946001     1.148670
312.419022   10.768821     1747.317
 1.00000    10.380864    60.458869     1.148670
313.728050   13.673062     1713.452

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -3.143121   -46.950605    -3.039413
-116.656578    -9.887677 -485.934742
 0.25000    -3.143121   -46.447658    -3.039413
-115.404236    -8.739082 -457.656898
 0.50000    -3.143121   -45.953524    -3.039413
-114.231025    -8.321129 -429.485732
 0.75000    -3.143121   -45.487564    -3.039413
-113.136953    -8.775164 -401.168074
 1.00000    -3.143121   -45.067488    -3.039413
-112.122308    -9.574234 -372.866896
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                              Page
 <           MOVING            LOAD              >
                               1319

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    12.418287   138.630372     2.536282
529.827114   19.905144     3491.227
 0.25000    12.418287   142.168531     2.536282
537.476379   21.946537     3418.029
 0.50000    12.418287   146.097932     2.536282
545.695143   24.589485     3350.026
 0.75000    12.418287   150.274797     2.536282
554.482665   27.960159     3295.451
 1.00000    12.418287   154.540173     2.536282
563.836878   31.924848     3247.547

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -8.836563 -134.899150    -4.343127
-277.049823   -10.239081 -873.346951
 0.25000    -8.836563 -130.716411    -4.343127
-268.116437    -9.756286 -822.601326
 0.50000    -8.836563 -126.606935    -4.343127
-259.747321    -9.983262 -772.000056
 0.75000    -8.836563 -122.731770    -4.343127
-251.941080   -11.050251 -721.198712
 1.00000    -8.836563 -119.238200    -4.343127
-244.703179   -13.033696 -670.389917

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    11.968718   228.944546     3.452436
456.878014   37.827854     4938.561
 0.25000    11.968718   252.804092     3.452436
451.968754   39.904308     4906.056
 0.50000    11.968718   279.314160     3.452436
447.378330   42.826231     4840.243
 0.75000    11.968718   307.477468     3.452436
443.100534   46.799573     4745.429
 1.00000    11.968718   336.245707     3.452436
439.130783   51.730199     4618.137

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -7.904381 -312.847701    -5.794763
-196.591614   -12.307955    -1190.622
 0.25000    -7.904381 -284.643489    -5.794763
-200.339417   -12.014777    -1121.500
 0.50000    -7.904381 -256.928018    -5.794763
-204.381745   -12.327492    -1052.541
 0.75000    -7.904381 -230.800592    -5.794763
-208.718624   -13.377633 -983.410052
 1.00000    -7.904381 -207.249383    -5.794763
-213.359585   -15.281592 -914.261120

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    12.638247   240.769852     3.326780
470.009818   40.761293     5366.658
 0.25000    12.638247   260.406008     3.326780
466.635777   42.444426     5306.284
 0.50000    12.638247   282.222352     3.326780
463.483003   45.123466     5223.228
 0.75000    12.638247   305.399230     3.326780
460.544104   48.972617     5127.320
 1.00000    12.638247   329.073948     3.326780
457.814489   53.743373     5013.119

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -7.858273 -302.954672    -5.690632
-341.380628   -13.892794    -1296.263
 0.25000    -7.858273 -279.744057    -5.690632
-343.900236   -13.351144    -1220.937
 0.50000    -7.858273 -256.935662    -5.690632
-346.617941   -13.554750    -1145.748
 0.75000    -7.858273 -235.434150    -5.690632
-349.538563   -14.479893    -1070.403
 1.00000    -7.858273 -216.051665    -5.690632
-352.665791   -16.148478 -995.043053
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                              Page
 <           MOVING            LOAD              >
                               1320

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     1.959212   108.306815     1.726318
184.968527   22.524465     1949.472
 0.25000     1.959212   121.654013     1.726318
204.403289   22.586565     1945.421
 0.50000     1.959212   136.477009     1.726318
225.260908   22.964844     1923.421
 0.75000     1.959212   152.233389     1.726318
247.537833   23.806234     1888.451
 1.00000     1.959212   168.323394     1.726318
271.268925   24.960871     1836.552

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -6.345298 -162.015285    -1.769251
-203.652845    -2.324923 -447.434313
 0.25000    -6.345298 -146.237993    -1.769251
-181.066544    -2.848282 -421.505963
 0.50000    -6.345298 -130.734436    -1.769251
-159.904531    -3.420523 -395.623822
 0.75000    -6.345298 -116.119512    -1.769251
-140.173603    -4.074127 -369.664658
 1.00000    -6.345298 -102.941594    -1.769251
-121.873137    -5.084078 -343.728662

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     4.420107   213.177004     2.852164
160.634179   42.293437     3824.467
 0.25000     4.420107   239.864819     2.852164
160.634179   42.623480     3818.438
 0.50000     4.420107   269.508854     2.852164
160.634179   43.610705     3775.806
 0.75000     4.420107   301.001625     2.852164
160.634179   45.544562     3706.579
 1.00000     4.420107   333.170953     2.852164
160.634179   48.235430     3602.782

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -5.850463 -320.570393    -3.831438
-150.780317    -7.042973 -873.462454
 0.25000    -5.850463 -289.031333    -3.831438
-150.780317    -7.365661 -822.838324
 0.50000    -5.850463 -258.038881    -3.831438
-150.780317    -7.776370 -772.286242
 0.75000    -5.850463 -228.822271    -3.831438
-150.780317    -8.348436 -721.591763
 1.00000    -5.850463 -202.478712    -3.831438
-150.780317    -9.396890 -670.941494

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     9.218345   239.535453     3.447605
380.492577   41.761851     4950.964
 0.25000     9.218345   263.908661     3.447605
381.322157   43.760786     4915.405
 0.50000     9.218345   290.979860     3.447605
382.199069   46.389788     4847.563
 0.75000     9.218345   319.739352     3.447605
383.119367   49.949254     4757.426
 1.00000     9.218345   349.116708     3.447605
384.077882   54.268932     4639.155

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -8.108691 -328.312465    -5.072961
-230.774450    -8.097199    -1174.235
 0.25000    -8.108691 -299.510582    -5.072961
-230.621677    -9.275834    -1106.209
 0.50000    -8.108691 -271.207736    -5.072961
-230.523554   -10.550071    -1038.112
 0.75000    -8.108691 -244.526916    -5.072961
-230.461162   -11.974876 -969.900200
 1.00000    -8.108691 -220.467970    -5.072961
-230.434976   -13.769690 -901.723064
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                              Page
 <           MOVING            LOAD              >
                               1321

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     8.602429   239.384505     3.324660
388.883027   40.573111     5367.687
 0.25000     8.602429   259.992640     3.324660
388.883027   42.155977     5312.728
 0.50000     8.602429   282.883549     3.324660
388.883027   44.581004     5231.294
 0.75000     8.602429   307.202037     3.324660
388.883027   47.824908     5132.614
 1.00000     8.602429   332.042958     3.324660
388.883027   51.747425     5013.100

 COMB DL-G2-4 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -8.357772 -306.101813    -4.649459
-374.560451    -9.424184    -1292.403
 0.25000    -8.357772 -281.747581    -4.649459
-374.560451   -10.268804    -1217.368
 0.50000    -8.357772 -257.815435    -4.649459
-374.560451   -11.488546    -1142.286
 0.75000    -8.357772 -235.254582    -4.649459
-374.560451   -12.873069    -1067.112
 1.00000    -8.357772 -214.912277    -4.649459
-374.560451   -14.602406 -991.962075

 COMB DL-G3-1 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     1.234396    60.972542     1.678887
113.523732    9.470760     1879.844
 0.25000     1.234396    61.489697     1.678887
111.968937    8.852105     1840.593
 0.50000     1.234396    62.066522     1.678887
110.513006    8.888533     1803.253
 0.75000     1.234396    62.679467     1.678887
109.155143    9.283609     1767.277
 1.00000     1.234396    63.305253     1.678887
107.896068    9.985768     1732.991

 COMB DL-G3-1 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -3.694618   -48.655959    -1.212559
-293.870310    -4.801726 -480.564819
 0.25000    -3.694618   -48.042046    -1.212559
-295.182075    -4.174902 -452.469390
 0.50000    -3.694618   -47.439245    -1.212559
-296.591458    -4.466744 -424.489121
 0.75000    -3.694618   -46.870733    -1.212559
-298.098128    -5.511965 -396.385065
 1.00000    -3.694618   -46.360594    -1.212559
-299.703709    -6.911427 -368.271822

 COMB DL-G3-2 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     5.300717   141.748742     2.491698
277.593162   24.572448     3477.357
 0.25000     5.300717   146.434049     2.491698
265.832261   24.053844     3407.204
 0.50000     5.300717   151.655924     2.491698
254.820170   24.554720     3339.583
 0.75000     5.300717   157.204782     2.491698
244.547262   25.828315     3283.150
 1.00000     5.300717   162.869937     2.491698
235.022783   27.613935     3231.710

 COMB DL-G3-2 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -4.976989 -141.950261    -2.792451
-491.512819    -9.392942 -851.899435
 0.25000    -4.976989 -136.392350    -2.792451
-501.423548    -8.633769 -802.250084
 0.50000    -4.976989 -130.935095    -2.792451
-512.070529    -8.643802 -752.682664
 0.75000    -4.976989 -125.788276    -2.792451
-523.457320    -9.076987 -702.964872
 1.00000    -4.976989 -121.166219    -2.792451
-535.582011   -10.052751 -653.262896
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                              Page
 <           MOVING            LOAD              >
                               1322

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     4.523075   227.695301     3.516034
195.201227   41.804584     4853.568
 0.25000     4.523075   251.838439     3.516034
199.339673   41.511061     4822.768
 0.50000     4.523075   278.647276     3.516034
203.770854   42.361454     4757.612
 0.75000     4.523075   307.128078     3.516034
208.490827   44.297821     4663.022
 1.00000     4.523075   336.220849     3.516034
213.497073   47.058588     4535.741

 COMB DL-G3-3 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -6.359653 -312.018626    -4.109264
-415.833135   -10.026816    -1156.252
 0.25000    -6.359653 -283.495399    -4.109264
-411.464153    -9.820132    -1089.135
 0.50000    -6.359653 -255.466616    -4.109264
-407.361238   -10.260173    -1021.922
 0.75000    -6.359653 -229.043842    -4.109264
-403.534810   -11.098845 -954.544088
 1.00000    -6.359653 -205.211440    -4.109264
-399.988092   -12.407997 -887.232195

 COMB DL-G3-4 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     6.730612   240.406502     3.996788
359.476741   42.962690     5354.506
 0.25000     6.730612   260.251039     3.996788
362.255797   43.539470     5294.983
 0.50000     6.730612   282.287936     3.996788
365.228428   45.125630     5211.950
 0.75000     6.730612   305.699189     3.996788
368.393301   47.757801     5115.104
 1.00000     6.730612   329.613462     3.996788
371.747212   51.191580     4999.551

 COMB DL-G3-4 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -9.786034 -302.911381    -4.523739
-440.746878    -9.735377    -1288.399
 0.25000    -9.786034 -279.464694    -4.523739
-437.887894   -10.211468    -1213.586
 0.50000    -9.786034 -256.424933    -4.523739
-435.203765   -11.249156    -1138.700
 0.75000    -9.786034 -234.705587    -4.523739
-432.697990   -12.642208    -1063.725
 1.00000    -9.786034 -215.117207    -4.523739
-430.378169   -14.644146 -988.742722

 COMB       DB ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    10.231030   266.657684     3.518537
527.238314   43.611924     4952.211
 0.25000    10.231030   297.613696     3.518537
538.370519   42.821380     4913.144
 0.50000    10.231030   332.378256     3.518537
549.522111   43.355588     4866.114
 0.75000    10.231030   369.930901     3.518537
560.757953   45.917554     4808.195
 1.00000    10.231030   409.095428     3.518537
575.990462   49.644575     4729.163

 COMB       DB ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -8.769544 -379.141674    -5.592413
-496.633432   -10.770460 -991.650630
 0.25000    -8.769544 -335.937067    -5.592413
-510.473475    -9.168946 -934.047787
 0.50000    -8.769544 -296.512836    -5.592413
-524.289070    -8.051968 -876.444943
 0.75000    -8.769544 -261.204457    -5.592413
-538.178532    -8.196157 -818.842100
 1.00000    -8.769544 -229.519387    -5.592413
-557.104746    -8.790382 -761.239257
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                              Page
 <           MOVING            LOAD              >
                               1323

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       DL ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    12.638247   240.769852     3.996788
529.827114   42.962690     5367.687
 0.25000    12.638247   263.908661     3.996788
537.476379   43.760786     5312.728
 0.50000    12.638247   290.979860     3.996788
545.695143   46.389788     5231.294
 0.75000    12.638247   319.739352     3.996788
554.482665   49.949254     5132.614
 1.00000    12.638247   349.116708     3.996788
563.836878   54.268932     5013.119

 COMB       DL ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -9.786034 -328.312465    -5.794763
-491.512819   -13.892794    -1296.263
 0.25000    -9.786034 -299.510582    -5.794763
-501.423548   -13.351144    -1220.937
 0.50000    -9.786034 -271.207736    -5.794763
-512.070529   -13.554750    -1145.748
 0.75000    -9.786034 -244.526916    -5.794763
-523.457320   -14.479893    -1070.403
 1.00000    -9.786034 -220.467970    -5.794763
-535.582011   -16.148478 -995.043053

 COMB      CAR ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    12.638247   266.657684     3.996788
529.827114   43.611924     5367.687
 0.25000    12.638247   297.613696     3.996788
538.370519   43.760786     5312.728
 0.50000    12.638247   332.378256     3.996788
549.522111   46.389788     5231.294
 0.75000    12.638247   369.930901     3.996788
560.757953   49.949254     5132.614
 1.00000    12.638247   409.095428     3.996788
575.990462   54.268932     5013.119

 COMB      CAR ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -9.786034 -379.141674    -5.794763
-496.633432   -13.892794    -1296.263
 0.25000    -9.786034 -335.937067    -5.794763
-510.473475   -13.351144    -1220.937
 0.50000    -9.786034 -296.512836    -5.794763
-524.289070   -13.554750    -1145.748
 0.75000    -9.786034 -261.204457    -5.794763
-538.178532   -14.479893    -1070.403
 1.00000    -9.786034 -229.519387    -5.794763
-557.104746   -16.148478 -995.043053

 COMB   DESIGN ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    12.638247   266.657684     3.996788
529.827114   43.611924     5367.687
 0.25000    12.638247   297.613696     3.996788
538.370519   43.760786     5312.728
 0.50000    12.638247   332.378256     3.996788
549.522111   46.389788     5231.294
 0.75000    12.638247   369.930901     3.996788
560.757953   49.949254     5132.614
 1.00000    12.638247   409.095428     3.996788
575.990462   54.268932     5013.119

 COMB   DESIGN ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -9.786034 -379.141674    -5.794763
-496.633432   -13.892794    -1296.263
 0.25000    -9.786034 -335.937067    -5.794763
-510.473475   -13.351144    -1220.937
 0.50000    -9.786034 -296.512836    -5.794763
-524.289070   -13.554750    -1145.748
 0.75000    -9.786034 -261.204457    -5.794763
-538.178532   -14.479893    -1070.403
 1.00000    -9.786034 -229.519387    -5.794763
-557.104746   -16.148478 -995.043053
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                              Page
 <           MOVING            LOAD              >
                               1324

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      103 ================== LENGTH
=     4.958049

 COMB DB-G1-1 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     6.997768    76.659646     1.082975
448.613923    8.998055     1482.672
 0.25000     6.997768    77.197286     1.082975
449.839688   13.199848     1410.358
 0.50000     6.997768    77.800947     1.082975
451.067567   17.962309     1339.908
 0.75000     6.997768    78.453668     1.082975
452.304632   23.427348     1275.144
 1.00000     6.997768    79.137788     1.082975
453.979822   29.522688     1216.113

 COMB DB-G1-1 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -1.535853   -21.575533    -5.868133
-77.279266    -5.301168 -283.317286
 0.25000    -1.535853   -20.887967    -5.868133
-75.611435    -3.292481 -262.018593
 0.50000    -1.535853   -20.226640    -5.868133
-74.396026    -4.414948 -240.719900
 0.75000    -1.535853   -19.610431    -5.868133
-73.183873    -5.557010 -219.421207
 1.00000    -1.535853   -19.057002    -5.868133
-71.965784    -6.709052 -198.122514

 COMB DB-G1-2 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     8.188892   176.858737     4.795391
743.659104   23.878521     2965.617
 0.25000     8.188892   182.234481     4.795391
754.696911   27.794978     2824.774
 0.50000     8.188892   188.270440     4.795391
765.751464   32.442901     2694.924
 0.75000     8.188892   194.796688     4.795391
776.887927   37.864456     2584.605
 1.00000     8.188892   201.634394     4.795391
791.968694   43.939260     2492.916

 COMB DB-G1-2 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -8.218136 -100.431301    -6.900316
-205.060858    -4.951902 -511.306081
 0.25000    -8.218136   -93.559422    -6.900316
-190.051444    -9.274205 -472.798998
 0.50000    -8.218136   -86.947692    -6.900316
-179.114296   -14.887460 -434.291915
 0.75000    -8.218136   -80.786858    -6.900316
-168.207630   -20.524157 -395.784833
 1.00000    -8.218136   -75.253847    -6.900316
-157.251292   -26.171997 -357.277750

 COMB DB-G1-3 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000     7.881724   296.032259     4.747217
609.955703   43.741655     4319.802
 0.25000     7.881724   327.253882     4.747217
607.352784   46.775727     4215.841
 0.50000     7.881724   362.317175     4.747217
605.388873   50.979990     4077.655
 0.75000     7.881724   400.214139     4.747217
603.324960   56.422418     3904.528
 1.00000     7.881724   439.787087     4.747217
601.112407   62.992305     3694.836

 COMB DB-G1-3 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -6.329231 -311.440759    -7.762969
-109.380959    -6.363033 -691.397138
 0.25000    -6.329231 -271.684507    -7.762969
-109.380959    -9.424991 -639.203479
 0.50000    -6.329231 -233.321303    -7.762969
-109.380959   -13.261981 -587.009820
 Program   SAP2000   Nonlinear   Version   7.42
           File:하행S11-S1503.OUT

                              Page
 <           MOVING            LOAD              >
                               1325

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P            V2           V3
      T           M2           M3
 0.75000    -6.329231 -197.564764    -7.762969
-109.380959   -17.121139 -534.816160
 1.00000    -6.329231 -165.462519    -7.762969
-109.380959   -20.993642 -482.622501

 COMB DB-G1-4 ------------------ MAX

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    10.193027   312.340927     4.450959
554.079409   44.520169     4723.339
 0.25000    10.193027   338.017310     4.450959
553.519223   47.251720     4570.245
 0.50000    10.193027   366.851103     4.450959
552.971071   52.324726     4402.126
 0.75000    10.193027   398.015649     4.450959
552.531489   59.572343     4223.476
 1.00000    10.193027   430.558966     4.450959
552.527444   67.956959     4031.725

 COMB DB-G1-4 ------------------ MIN

 REL DIST          P            V2           V3
      T           M2           M3
 0.00000    -6.176828 -285.003231    -8.920378
-343.584375    -7.229462 -761.159377
 0.25000    -6.176828 -252.309005    -8.920378
-343.584375    -9.744551 -703.593003
 0.50000    -6.176828 -220.760680    -8.920378
-343.584375   -12.945127 -646.026630
 0.75000    -6.176828 -191.356416    -8.920378
```

```
-343.584375  -16.190810 -588.460256
 1.00000     -6.176828  -164.955437     -8.920378
-343.584375  -19.458040  -530.893883

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    1.008422  141.491793    3.806807
244.144718   22.917398    1842.090
 0.25000    1.008422  158.542292    3.806807
264.770052   21.532095    1806.530
 0.50000    1.008422  177.687768    3.806807
285.448249   20.372927    1755.200
 0.75000    1.008422  198.385358    3.806807
306.293825   19.402740    1690.714
 1.00000    1.008422  220.041383    3.806807
334.463201   18.589146    1609.291

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.658691  -174.984376   -0.872856
-177.278302  -2.228642  -266.046735
 0.25000   -7.658691  -153.223283   -0.872856
-149.280929  -5.702497  -245.930137
 0.50000   -7.658691  -132.261176   -0.872856
-128.896299  -10.007801  -225.813538
 0.75000   -7.658691  -112.726634   -0.872856
-108.590664  -14.670591  -205.696940
 1.00000   -7.658691   -95.184484   -0.872856
-88.221385   -19.333478  -185.580341

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.172536  276.165829    4.495471
180.412845   45.351075    3578.939
 0.25000    4.172536  310.257701    4.495471
180.412845   44.063532    3514.675
 0.50000    4.172536  348.541137    4.495471
180.412845   43.779150    3417.315
 0.75000    4.172536  389.919366    4.495471
180.412845   45.526960    3291.014
 1.00000    4.172536  433.128425    4.495471
180.412845   48.260429    3128.007

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.971215  -346.291316   -4.302039
-156.394305  -4.857606  -513.876142
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
 <                 MOVING          LOAD                >
                                   1326

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000   -5.971215  -302.881831   -4.302039
-156.394305  -7.758787  -474.936241
 0.50000   -5.971215  -260.993914   -4.302039
-156.394305  -10.905322  -435.996339
 0.75000   -5.971215  -221.952910   -4.302039
-156.394305  -14.080459  -397.056438
 1.00000   -5.971215  -186.898817   -4.302039
-156.394305  -17.265869  -358.116536

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.339416  310.857897    5.287441
502.562231   46.399291    4450.718
 0.25000    7.339416  341.884593    5.287441
502.862673   48.327457    4332.161
 0.50000    7.339416  376.724004    5.287441
503.258657   51.427999    4188.437
 0.75000    7.339416  414.380333    5.287441
503.722515   56.543524    4024.475
 1.00000    7.339416  453.703350    5.287441
504.085948   62.639033    3835.315

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.002670  -324.469297   -6.877291
-186.900931  -6.066499  -689.138296
 0.25000   -7.002670  -284.963710   -6.877291
-186.900931  -8.983833  -637.037631
 0.50000   -7.002670  -246.843163   -6.877291
-186.900931  -12.554112  -584.936966
 0.75000   -7.002670  -211.313938   -6.877291
-186.900931  -16.937474  -532.836301
 1.00000   -7.002670  -179.411145   -6.877291
-186.900931  -21.329745  -480.735636

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.095433  311.701992    4.903154
446.711157   41.962602    4729.271
 0.25000    7.095433  337.840622    4.903154
446.711157   42.895584    4578.941
 0.50000    7.095433  367.192972    4.903154
446.711157   45.522639    4411.540
 0.75000    7.095433  398.918136    4.903154
446.711157   50.403427    4232.372
 1.00000    7.095433  432.047017    4.903154
446.711157   56.060555    4038.873

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.090798  -280.899669   -6.213687
-418.936094  -5.660045  -759.081633
 0.25000   -7.090798  -247.617118   -6.213687
-418.936094  -9.109252  -701.605508
 0.50000   -7.090798  -215.501171   -6.213687
-418.936094  -12.103878  -644.129384
 0.75000   -7.090798  -185.567985   -6.213687
-418.936094  -15.778688  -586.653260
 1.00000   -7.090798  -158.691609   -6.213687
-418.936094  -19.466409  -529.177135

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    0.778348   80.628092    2.179383
69.944341    7.111728    1520.120
 0.25000    0.778348   81.266189    2.179383
67.914081    5.847653    1443.453
 0.50000    0.778348   81.986069    2.179383
66.431902    4.614219    1370.054
 0.75000    0.778348   82.763832    2.179383
64.949309    3.470689    1302.174
 1.00000    0.778348   83.572999    2.179383
63.453934    3.137204    1241.164
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
 <                 MOVING          LOAD                >
                                   1327

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -2.537561  -22.555394   -0.570503
-426.194898  -5.389267  -282.092907
 0.25000   -2.537561  -21.742800   -0.570503
-427.681395  -6.727449  -260.634259
 0.50000   -2.537561  -20.956132   -0.570503
-429.165416  -8.415054  -239.175611
 0.75000   -2.537561  -20.222727   -0.570503
-430.657217  -10.409491  -217.716963
 1.00000   -2.537561  -19.567327   -0.570503
-432.689344  -12.694219  -196.258315

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.718195  182.617735    2.702003
217.735829   22.737215    2986.919
 0.25000    5.718195  189.446758    2.702003
198.927944   21.712783    2848.520
 0.50000    5.718195  197.146197    2.702003
185.195419   21.427299    2719.314
 0.75000    5.718195  205.465171    2.702003
171.456056   23.199102    2605.847
 1.00000    5.718195  214.124391    2.702003
157.594288   26.642489    2508.377

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.397063  -111.339184   -4.346132
-685.227680  -5.891717  -502.158753
 0.25000   -3.397063  -102.642811   -4.346132
-698.988633  -7.181426  -463.972525
 0.50000   -3.397063  -94.227612   -4.346132
-712.728715  -8.865212  -425.786297
 0.75000   -3.397063  -86.382476   -4.346132
-726.541706  -10.902400  -387.600069
 1.00000   -3.397063  -79.367251   -4.346132
-745.358628  -13.120777  -349.413841

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.746201  298.416198    3.900735
124.533262   41.982437    4312.680
 0.25000    3.746201  329.915931    3.900735
125.402178   39.863574    4207.468
 0.50000    3.746201  365.285133    3.900735
126.368097   38.624870    4068.629
 0.75000    3.746201  403.514456    3.900735
127.406508   39.123520    3894.784
 1.00000    3.746201  443.436202    3.900735
128.546241   40.936889    3684.905

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.732340  -313.943591   -3.855220
-542.109702  -6.916514  -680.623208
 0.25000   -4.732340  -273.836376   -3.855220
-542.109702  -8.613991  -628.940748
 0.50000   -4.732340  -235.135510   -3.855220
-542.109702  -10.609813  -577.258288
 0.75000   -4.732340  -199.065731   -3.855220
-542.109702  -12.921659  -525.575828
 1.00000   -4.732340  -166.676275   -3.855220
-542.109702  -15.381070  -473.893368

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.051734  312.685290    6.320919
374.945532   42.859349    4718.289
 0.25000    5.051734  338.480448    6.320919
374.945531   42.239786    4565.082
 0.50000    5.051734  367.446797    6.320919
374.945531   42.552375    4396.524
 0.75000    5.051734  398.754837    6.320919
374.945531   44.330345    4216.349
 1.00000    5.051734  431.448219    6.320919
374.945531   47.226438    4023.539
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
 <                 MOVING          LOAD                >
                                   1328

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.975615  -284.270657   -4.763350
-501.774764  -7.243895  -757.423635
 0.25000   -8.975615  -251.425600   -4.763350
-501.774764  -11.428826  -700.021118
 0.50000   -8.975615  -219.731852   -4.763350
-501.774764  -16.893256  -642.618601
 0.75000   -8.975615  -190.192251   -4.763350
-501.774764  -22.620530  -585.216084
 1.00000   -8.975615  -163.668982   -4.763350
-501.774764  -28.470703  -527.813567

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.546380   86.109245    2.199455
529.437135   10.102086    1712.021
 0.25000   10.546380   86.546851    2.199455
530.535380   17.045334    1665.127
 0.50000   10.546380   87.031800    2.199455
531.717250   25.828011    1539.824
 0.75000   10.546380   87.547126    2.199455
532.973975   34.880721    1455.352
 1.00000   10.546380   88.073919    2.199455
534.308063   44.094635    1372.698

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -2.998218  -29.183326   -7.907227
-94.448078   -7.519993  -372.700961
 0.25000   -2.998218  -28.691250   -7.907227
-93.240231   -6.721853  -344.724695
 0.50000   -2.998218  -28.207985   -7.907227
-92.110603   -9.325582  -316.739514
 0.75000   -2.998218  -27.752371   -7.907227
-91.059590   -11.955432  -288.770573
 1.00000   -2.998218  -27.342069   -7.907227
-90.087402   -14.588456  -260.793562

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.416663  183.236187    6.224473
832.931793   25.706373    3245.586
 0.25000   12.416663  186.875253    6.224473
840.793570   33.705715    3093.175
 0.50000   12.416663  190.908109    6.224473
849.221575   43.237086    2940.525
 0.75000   12.416663  195.193641    6.224473
858.224072   53.089118    2793.679
 1.00000   12.416663  199.574349    6.224473
867.760046   63.294767    2666.877

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.843952  -102.005500   -9.357926
-211.459472  -9.798931  -670.151122
 0.25000   -8.843952  -97.913397   -9.357926
-202.850293  -14.776089  -619.762780
 0.50000   -8.843952  -93.894506   -9.357926
-194.799168  -21.825949  -569.363424
 0.75000   -8.843952  -90.105511   -9.357926
-187.307868  -29.130077  -518.971242
 1.00000   -8.843952  -86.693357   -9.357926
-180.380023  -36.360572  -468.559243

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.833769  284.984380    6.298380
717.177667   44.748990    4616.594
 0.25000   11.833769  309.508010    6.298380
712.069758   52.349663    4479.571
 0.50000   11.833769  336.692592    6.298380
707.285149   61.704281    4304.949
 0.75000   11.833769  365.578938    6.298380
702.813286   71.740103    4099.358
 1.00000   11.833769  395.104857    6.298380
698.642644   82.339490    3861.819
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
 <                 MOVING          LOAD                >
                                   1329

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.865632  -269.650731   -10.265697
-144.878055  -11.736168  -914.094297
 0.25000   -7.865632  -242.077473   -10.265697
-148.529120  -15.782777  -845.111033
 0.50000   -7.865632  -214.985343   -10.265697
-152.477560  -21.785002  -776.236940
 0.75000   -7.865632  -189.440609   -10.265697
-156.735175  -27.823302  -707.370790
 1.00000   -7.865632  -166.445286   -10.265697
-161.302706  -33.880456  -638.527778

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.567797  302.603549    5.848315
650.349809   46.602128    5012.518
 0.25000   12.567797  322.786373    5.848315
646.792064   53.356598    4839.418
 0.50000   12.567797  345.157976    5.848315
643.458284   62.332674    4637.286
 0.75000   12.567797  368.930662    5.848315
640.340392   72.509744    4418.252
 1.00000   12.567797  393.228503    5.848315
637.428035   83.343195    4181.749

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.776537  -255.098961   -10.483348
-380.914268  -12.557523  -995.025267
 0.25000   -7.776537  -232.407490   -10.483348
-383.338204  -15.885836  -919.804368
 0.50000   -7.776537  -210.111986   -10.483348
-385.966828  -20.936794  -844.670909
 0.75000   -7.776537  -189.089928   -10.483348
-388.806600  -26.073974  -769.520728
 1.00000   -7.776537  -170.164841   -10.483348
-391.863145  -31.247459  -694.394726

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    1.714026  126.724530    4.248490
242.957852   22.751132    1836.154
 0.25000    1.714026  140.449125    4.248490
262.955995   22.012682    1796.553
 0.50000    1.714026  155.659529    4.248490
284.373446   21.955744    1736.360
 0.75000    1.714026  171.823321    4.248490
307.214901   22.075931    1662.407
 1.00000    1.714026  188.945020    4.248490
331.528056   22.441922    1572.248

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.482249  -146.606161   -1.309225
-168.461892  -4.047051  -343.690492
 0.25000   -6.482249  -131.178072   -1.309225
-146.763836  -8.443408  -317.736166
 0.50000   -6.482249  -116.020052   -1.309225
-126.471623  -12.969427  -291.809206
 0.75000   -6.482249  -101.799019   -1.309225
-107.595605  -17.540797  -265.910766
 1.00000   -6.482249  -88.859234   -1.309225
-90.144618  -22.136542  -239.960678

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.131143  249.236481    4.587012
187.480699   44.370334    3602.872
 0.25000    4.131143  276.668068    4.587012
187.480699   45.097449    3527.430
 0.50000    4.131143  307.067606    4.587012
187.480699   46.680868    3410.576
 0.75000    4.131143  339.370256    4.587012
187.480699   49.326764    3265.160
 1.00000    4.131143  372.388240    4.587012
187.480699   52.681655    3086.783
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
 <                 MOVING          LOAD                >
                                   1330

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.859407  -290.759786   -4.354526
-161.663785  -7.772831  -670.993280
 0.25000   -5.859407  -259.925560   -4.354526
-161.663785  -10.853391  -620.153262
 0.50000   -5.859407  -229.629533   -4.354526
-161.663785  -14.217716  -569.416180
 0.75000   -5.859407  -201.063986   -4.354526
-161.663785  -17.649887  -518.700112
 1.00000   -5.859407  -175.341550   -4.354526
-161.663785  -21.111044  -467.967806

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.019644  292.225817    6.382959
553.300086   47.627080    4638.242
 0.25000    9.019644  317.278500    6.382959
554.183966   53.159902    4504.571
 0.50000    9.019644  345.039901    6.382959
555.080102   59.556514    4333.202
 0.75000    9.019644  374.539279    6.382959
555.978724   67.112728    4135.038
 1.00000    9.019644  404.691939    6.382959
556.870114   75.308214    3909.676

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.138439  -285.132131   -8.098869
-205.691079  -9.964284  -901.649157
 0.25000   -8.138439  -256.973754   -8.098869
-205.690980  -15.222389  -833.502766
 0.50000   -8.138439  -229.306907   -8.098869
-205.690541  -21.027029  -765.461308
 0.75000   -8.138439  -203.220384   -8.098869
-205.690541  -26.907558  -697.421850
 1.00000   -8.138439  -179.728549   -8.098869
-205.690477  -32.818546  -629.337212

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.441750  300.562429    6.068101
499.752872   44.384696    5013.256
 0.25000    8.441750  321.744901    6.068101
499.752872   48.411266    4846.634
 0.50000    8.441750  345.219202    6.068101
499.752872   53.670384    4648.304
 0.75000    8.441750  370.163074    6.068101
499.752872   60.207702    4426.495
 1.00000    8.441750  395.659320    6.068101
499.752872   67.240280    4184.221

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.407366  -256.812771   -7.342060
-465.225090  -10.512401  -992.043088
 0.25000   -8.407366  -233.002807   -7.342060
-465.225090  -14.935537  -916.957261
 0.50000   -8.407366  -209.608435   -7.342060
-465.225090  -19.923605  -841.958670
 0.75000   -8.407366  -187.550328   -7.342060
-465.225090  -24.997361  -766.960870
 1.00000   -8.407366  -167.687650   -7.342060
-465.225090  -30.111636  -691.890167

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    1.113258   89.469640    2.585324
82.818407    7.439606    1734.510
 0.25000    1.113258   90.000873    2.585324
81.302559    6.338031    1645.915
 0.50000    1.113258   90.592156    2.585324
79.885638    5.363896    1557.487
 0.75000    1.113258   91.220302    2.585324
78.567186    4.867006    1470.140
 1.00000    1.113258   91.862487    2.585324
77.345372    4.482328    1384.814
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
 <                 MOVING          LOAD                >
                                   1331

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.719196  -30.255529   -0.672021
-493.778107  -6.466691  -368.518158
 0.25000   -3.719196  -29.655838   -0.672021
-495.147391  -7.692551  -340.522928
 0.50000   -3.719196  -29.066528   -0.672021
-496.553005  -9.485845  -312.540310
 0.75000   -3.719196  -28.510848   -0.672021
-498.086393  -11.654360  -284.546430
 1.00000   -3.719196  -28.012930   -0.672021
-499.717347  -13.979772  -256.561981

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.214337  186.659642    3.296511
208.254809   23.798146    3233.815
 0.25000    5.214337  191.472862    3.296511
196.775141   23.658841    3084.656
 0.50000    5.214337  196.826199    3.296511
186.045734   24.348724    2933.369
 0.75000    5.214337  202.513439    3.296511
176.064490   26.213966    2790.763
 1.00000    5.214337  208.387381    3.296511
166.808921   28.878458    2654.271

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.854071  -109.642262   -3.807846
-753.551208  -9.273980  -653.617301
 0.25000   -4.854071  -104.212930   -3.807846
-763.658521  -10.295801  -603.976641
 0.50000   -4.854071  -98.877520   -3.807846
-774.502046  -12.024335  -554.329477
 0.75000   -4.854071  -93.846471   -3.807846
-786.081884  -14.155073  -504.699726
 1.00000   -4.854071  -89.335002   -3.807846
-798.398493  -16.474241  -454.987762

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.229383  283.345607    4.605353
154.204191   41.762780    4537.521
 0.25000    4.229383  308.162586    4.605353
158.632961   41.126213    4403.621
 0.50000    4.229383  335.655936    4.605353
163.055599   41.475887    4231.737
 0.75000    4.229383  364.870555    4.605353
168.333270   43.006947    4027.724
 1.00000    4.229383  394.732247    4.605353
173.587680   45.269245    3791.413

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.328925  -269.785428   -4.047985
-633.245635  -10.796604  -887.553117
 0.25000   -6.328925  -241.898898   -4.047985
-629.358234  -12.547657  -820.221569
 0.50000   -6.328925  -214.499190   -4.047985
-625.732464  -14.981496  -752.939722
 0.75000   -6.328925  -188.664813   -4.047985
-622.378717  -17.753308  -685.687428
 1.00000   -6.328925  -165.393693   -4.047985
-619.304843  -20.675592  -618.395347

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.436468  302.501082    7.136715
425.350495   44.316797    5000.382
 0.25000    6.436468  322.899339    7.136715
428.353763   46.073252    4827.926
 0.50000    6.436468  345.498722    7.136715
431.542954   48.853451    4626.035
 0.75000    6.436468  369.512964    7.136715
434.913997   52.647105    4405.655
 1.00000    6.436468  394.059077    7.136715
438.454719   57.059318    4167.115
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
 <                 MOVING          LOAD                >
                                   1332

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.868544  -254.799893   -5.646962
-585.027416  -11.770824  -988.923257
 0.25000   -9.868544  -231.877326   -5.646962
-582.544997  -17.074390  -914.043259
 0.50000   -9.868544  -209.354981   -5.646962
-580.228115  -23.056132  -839.108525
 0.75000   -9.868544  -188.119152   -5.646962
-578.088906  -29.350739  -764.395620
 1.00000   -9.868544  -168.991567   -5.646962
-576.960840  -35.785454  -689.507244

 COMB      DB ---------- MAX
```

```
 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.193027   312.685290     6.320919
743.659104   46.399291  4729.271
 0.25000   10.193027   341.884593     6.320919
754.696911   48.327457  4578.941
 0.50000   10.193027   376.724004     6.320919
765.751464   52.324726  4411.540
 0.75000   10.193027   414.380333     6.320919
776.887927   59.572343  4232.372
 1.00000   10.193027   453.703350     6.320919
791.968694   67.956959  4038.873

 COMB       DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.975615  -346.291316    -8.920378
-685.227680   -7.543895  -761.153777
 0.25000   -8.975615  -302.881831    -8.920378
-698.988633  -11.428826  -703.593003
 0.50000   -8.975615  -260.993914    -8.920378
-712.728715  -16.893256  -646.026630
 0.75000   -8.975615  -221.952910    -8.920378
-726.541706  -22.620530  -588.460256
 1.00000   -8.975615  -186.898817    -8.920378
-745.358628  -28.470703  -530.893883

 COMB       DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.567797   302.603549     7.136715
832.931793   47.627080  5013.256
 0.25000   12.567797   322.899339     7.136715
840.793570   53.356598  4846.634
 0.50000   12.567797   345.498722     7.136715
849.221575   62.332674  4648.304
 0.75000   12.567797   374.539279     7.136715
858.224072   72.509744  4426.495
 1.00000   12.567797   404.691939     7.136715
867.760046   83.343195  4184.221

 COMB       DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.868544  -290.759786    -10.483348
-753.551208  -12.557523  -995.025267
 0.25000   -9.868544  -259.925560    -10.483348
-763.658521  -17.074390  -919.804368
 0.50000   -9.868544  -229.629533    -10.483348
-774.502046  -23.056132  -844.670909
 0.75000   -9.868544  -203.220384    -10.483348
-786.081884  -29.350739  -769.520728
 1.00000   -9.868544  -179.728549    -10.483348
-798.398493  -36.360572  -694.394726

 COMB       CAR ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.567797   312.685290     7.136715
832.931793   47.627080  5013.256
 0.25000   12.567797   341.884593     7.136715
840.793570   53.356598  4846.634
 0.50000   12.567797   376.724004     7.136715
849.221575   62.332674  4648.304
 0.75000   12.567797   414.380333     7.136715
858.224072   72.509744  4426.495
 1.00000   12.567797   453.703350     7.136715
867.760046   83.343195  4184.221
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1333

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       CAR ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.868544  -346.291316    -10.483348
-753.551208  -12.557523  -995.025267
 0.25000   -9.868544  -302.881831    -10.483348
-763.658521  -17.074390  -919.804368
 0.50000   -9.868544  -260.993914    -10.483348
-774.502046  -23.056132  -844.670909
 0.75000   -9.868544  -221.952910    -10.483348
-786.081884  -29.350739  -769.520728
 1.00000   -9.868544  -186.898817    -10.483348
-798.398493  -36.360572  -694.394726

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.567797   312.685290     7.136715
832.931793   47.627080  5013.256
 0.25000   12.567797   341.884593     7.136715
840.793570   53.356598  4846.634
 0.50000   12.567797   376.724004     7.136715
849.221575   62.332674  4648.304
 0.75000   12.567797   414.380333     7.136715
858.224072   72.509744  4426.495
 1.00000   12.567797   453.703350     7.136715
867.760046   83.343195  4184.221

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.868544  -346.291316    -10.483348
-753.551208  -12.557523  -995.025267
 0.25000   -9.868544  -302.881831    -10.483348
-763.658521  -17.074390  -919.804368
 0.50000   -9.868544  -260.993914    -10.483348
-774.502046  -23.056132  -844.670909
 0.75000   -9.868544  -221.952910    -10.483348
-786.081884  -29.350739  -769.520728
 1.00000   -9.868544  -186.898817    -10.483348
-798.398493  -36.360572  -694.394726

 ELEM      104 ================== LENGTH
=     4.957925

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.115698   100.442845     1.584605
576.550466   27.245314  1214.043
 0.25000    7.115698   100.977310     1.584605
577.715032   36.331025  1097.205
 0.50000    7.115698   101.582397     1.584605
578.905945   46.049480   981.522747
 0.75000    7.115698   102.242898     1.584605
580.130769   56.443191   868.477962
 1.00000    7.115698   102.941241     1.584605
581.806645   67.186021   758.387638

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -1.469974  -21.132013    -9.401046
-76.488072   -5.471603  -197.870080
 0.25000   -1.469974  -20.414917    -9.401046
-74.856080   -7.396716  -176.699318
 0.50000   -1.469974  -19.709573    -9.401046
-73.685748   -9.344615  -155.528556
 0.75000   -1.469974  -19.067576    -9.401046
-72.369087  -11.300663  -134.357794
 1.00000   -1.469974  -18.481644    -9.401046
-71.170422  -13.257337  -113.187032

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.259118   215.647447     8.580217
924.080451   39.814916  2489.914
 0.25000    8.259118   220.990080     8.580217
934.558184   47.919200  2271.410
 0.50000    8.259118   227.038900     8.580217
945.275762   58.007630  2061.090
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1334

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000    8.259118   233.641497     8.580217
956.296912   70.212494  1861.402
 1.00000    8.259118   240.619756     8.580217
971.371664   82.911875  1676.950

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.279500   -86.436731    -10.879851
-188.319931   -24.962038  -356.922782
 0.25000   -8.279500   -79.271964    -10.879851
-173.648489   -35.311090  -318.606553
 0.50000   -8.279500   -72.223257    -10.879851
-163.137077   -45.885508  -280.290324
 0.75000   -8.279500   -65.800870    -10.879851
-151.308218   -56.506877  -241.974095
 1.00000   -8.279500   -59.945309    -10.879851
-140.544957   -67.130016  -203.657866

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.742518   342.865835     7.707722
766.285203   57.991545  3692.400
 0.25000    7.742518   373.821430     7.707722
763.106502   63.387085  3483.870
 0.50000    7.742518   408.883818     7.707722
761.295424   70.293785  3243.278
 0.75000    7.742518   447.146415     7.707722
759.566190   78.283131  2963.015
 1.00000    7.742518   487.446789     7.707722
757.386821   86.933200  2640.549

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.386782  -286.649093    -10.297240
-101.663377   -18.878860  -482.349689
 0.25000   -6.386782  -245.319295    -10.297240
-101.663377   -25.686216  -430.350427
 0.50000   -6.386782  -204.583069    -10.297240
-101.663377   -32.579615  -378.351166
 0.75000   -6.386782  -167.111954    -10.297240
-101.663377   -39.486734  -326.351904
 1.00000   -6.386782  -133.267745    -10.297240
-101.663377   -46.395932  -274.352643

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.149166   365.257635     7.113596
679.110998   63.696236  4030.757
 0.25000   10.149166   390.716134     7.113596
678.389403   73.322035  3762.733
 0.50000   10.149166   419.550917     7.113596
677.756887   84.187423  3477.102
 0.75000   10.149166   451.016257     7.113596
677.756887   95.933027  3173.642
 1.00000   10.149166   484.158843     7.113596
677.756887  108.183317  2851.540

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.206582  -256.755835    -12.719444
-391.908832   -17.210023  -530.823118
 0.25000   -6.206582  -222.766105    -12.719444
-391.908832   -22.962938  -473.417703
 0.50000   -6.206582  -189.264283    -12.719444
-391.908832   -28.997803  -415.998289
 0.75000   -6.206582  -158.452481    -12.719444
-391.908832   -35.451636  -358.585875
 1.00000   -6.206582  -130.617448    -12.719444
-391.908832   -41.952821  -301.173461

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    0.874396   156.954435     7.749948
280.493662   16.599466  1608.565
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1335

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000    0.874396   173.883815     7.749948
299.999638   13.007294  1532.554
 0.50000    0.874396   193.053569     7.749948
319.962411   10.624388  1442.625
 0.75000    0.874396   213.976320     7.749948
340.494479    8.985297  1337.835
 1.00000    0.874396   236.058716     7.749948
368.523793   10.600199  1215.028

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.811742  -156.362161    -1.336761
-156.893553   -19.675175  -188.529274
 0.25000   -7.811742  -133.699991    -1.336761
-129.725073   -28.866506  -165.459243
 0.50000   -7.811742  -111.387000    -1.336761
-110.381215   -38.150452  -145.398212
 0.75000   -7.811742   -90.981158    -1.336761
-88.588835   -47.438757  -125.337181
 1.00000   -7.811742   -72.444693    -1.336761
-68.829908   -57.043643  -105.276151

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.937612   305.562692     7.206595
199.020904   45.488973  3128.062
 0.25000    3.937612   339.365588     7.206595
199.020904   45.211174  2986.366
 0.50000    3.937612   377.649577     7.206595
199.020904   46.112534  2815.356
 0.75000    3.937612   419.428604     7.206595
199.020904   47.772568  2613.654
 1.00000    3.937612   463.433714     7.206595
199.020904   49.783599  2372.579

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.054332  -311.569087    -4.831035
-165.496089   -16.174000  -358.164280
 0.25000   -6.054332  -266.438981    -4.831035
-165.496089   -21.948480  -319.290430
 0.50000   -6.054332  -221.956608    -4.831035
-165.496089   -27.818391  -280.416579
 0.75000   -6.054332  -181.047641    -4.831035
-165.496089   -33.700444  -241.542729
 1.00000   -6.054332  -144.088951    -4.831035
-165.496089   -39.586050  -202.668878

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.187323   355.601202     8.400575
610.169971   58.264855  3833.934
 0.25000    7.187323   386.365818     8.400575
610.169956   63.596139  3612.587
 0.50000    7.187323   421.206668     8.400575
610.169956   69.870385  3363.740
 0.75000    7.187323   459.228700     8.400575
610.267189   76.754714  3090.006
 1.00000    7.187323   499.277258     8.400575
610.295048   83.955273  2785.551

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.119351  -294.480414    -8.947535
-197.136417   -20.586096  -480.598697
 0.25000   -7.119351  -253.407439    -8.947535
-197.136417   -28.115627  -428.649507
 0.50000   -7.119351  -212.923713    -8.947535
-197.136417   -35.714423  -376.700317
 0.75000   -7.119351  -175.697042    -8.947535
-197.136417   -43.324188  -324.751127
 1.00000   -7.119351  -142.059381    -8.947535
-197.136417   -50.937127  -272.801937
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1336

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.995036   364.575403     8.178442
536.904033   52.176145  4039.004
 0.25000    6.995036   390.492471     8.178442
536.904033   57.889974  3775.139
 0.50000    6.995036   419.845245     8.178442
536.904033   64.399706  3487.485
 0.75000    6.995036   451.877705     8.178442
536.904033   71.436253  3181.587
 1.00000    6.995036   485.616928     8.178442
536.904033   78.774259  2854.535

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.235396  -256.929512    -8.475735
-498.811760   -18.406764  -529.253415
 0.25000   -7.235396  -222.327741    -8.475735
-498.811760   -25.145931  -471.889570
 0.50000   -7.235396  -188.222595    -8.475735
-498.811760   -32.576246  -414.525725
 0.75000   -7.235396  -156.857220    -8.475735
-498.811760   -40.366949  -357.161879
 1.00000   -7.235396  -128.520568    -8.475735
-498.811760   -48.176700  -299.798034

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    0.665838   105.550517     2.310453
67.870348    1.795126  1243.380
 0.25000    0.665838   106.181546     2.310453
65.846477    2.262105  1121.654
 0.50000    0.665838   106.899742     2.310453
64.371600    3.085447  1001.639
 0.75000    0.665838   107.683297     2.310453
62.720002    3.911970  882.932407
 1.00000    0.665838   108.505438     2.310453
61.203082    4.738549  768.239001

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -2.610272   -22.205115    -0.670652
-547.842908   -14.284420  -196.572494
 0.25000   -2.610272   -21.363031    -0.670652
-549.267701   -15.526792  -175.089024
 0.50000   -2.610272   -20.531345    -0.670652
-550.722246   -16.796998  -153.605553
 0.75000   -2.610272   -19.758379    -0.670652
-552.218145   -18.136669  -132.122083
 1.00000   -2.610272   -19.070146    -0.670652
-554.275235   -19.519264  -110.638613

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.686560   221.474959     3.100515
201.180164   25.170007  2511.442
 0.25000    5.686560   228.230737     3.100515
182.405069   32.365414  2296.423
 0.50000    5.686560   235.914621     3.100515
168.707835   40.137137  2086.308
 0.75000    5.686560   244.298064     3.100515
153.371913   48.360099  1885.775
 1.00000    5.686560   253.098933     3.100515
139.278558   56.372612  1695.506

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.373748   -98.307181    -6.468130
-847.655137   -14.571948  -349.862875
 0.25000   -3.373748   -89.291262    -6.468130
-860.858727   -15.945569  -311.652657
 0.50000   -3.373748   -80.389132    -6.468130
-874.334207   -17.334032  -273.442440
 0.75000   -3.373748   -72.127283    -6.468130
-888.194490   -18.732890  -235.232222
 1.00000   -3.373748   -64.756589    -6.468130
-907.263006   -20.138002  -197.022005
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1337

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.439102   345.412741     5.462377
123.578677   37.826313  3687.444
 0.25000    3.439102   376.646612     5.462377
124.080593   37.904551  3478.784
 0.50000    3.439102   412.017920     5.462377
124.653589   38.639623  3236.884
 0.75000    3.439102   450.619175     5.462377
125.245637   39.651711  2957.131
 1.00000    3.439102   491.278260     5.462377
125.807195   40.892960  2633.825

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.827210   -289.509078    -4.121892
-680.395408   -16.057025  -474.287016
 0.25000   -4.827210   -247.809564    -4.121892
-680.395408   -18.038815  -422.619521
 0.50000   -4.827210   -206.708113    -4.121892
-680.395408   -20.034093  -370.952025
 0.75000   -4.827210   -168.916787    -4.121892
-680.395408   -22.048014  -319.284530
 1.00000   -4.827210   -134.764967    -4.121892
-680.395408   -24.075205  -267.617035

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.800763   366.124650    10.005576
436.602119   43.020751  4024.628
 0.25000    4.800763   391.701397    10.005576
436.602118   45.100625  3756.740
 0.50000    4.800763   420.668206    10.005576
436.602118   48.442229  3469.122
 0.75000    4.800763   452.279646    10.005576
436.602118   52.334195  3163.518
 1.00000    4.800763   485.575511    10.005576
436.602118   56.485707  2837.653

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.156329  -256.786440    -5.799604
-611.075540   -29.315802  -528.017360
 0.25000   -9.156329  -222.639276    -5.799604
-611.075540   -37.744599  -470.693418
 0.50000   -9.156329  -188.982174    -5.799604
-611.075540   -46.240319  -413.369477
 0.75000   -9.156329  -158.029586    -5.799604
-611.075540   -54.752227  -356.045535
 1.00000   -9.156329  -130.067301    -5.799604
-611.075540   -63.274637  -298.721594

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.686969   121.543748     3.342838
721.049806   39.093986  1370.189
 0.25000   10.686969   121.991833     3.342838
722.139099   54.555544  1237.118
 0.50000   10.686969   122.491166     3.342838
723.324839   70.259864  1104.533
 0.75000   10.686969   123.026135     3.342838
724.610891   86.139137  971.278519
 1.00000   10.686969   123.578059     3.342838
725.998565  102.209220  839.071217

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -2.850619   -26.947031    -13.309500
-93.809740   -11.131236  -260.633677
 0.25000   -2.850619   -26.464574    -13.309500
-92.657039   -15.220653  -233.000419
 0.50000   -2.850619   -25.987166    -13.309500
-91.559835   -19.321117  -205.369233
 0.75000   -2.850619   -25.533376    -13.309500
-90.518904   -23.435134  -178.686041
 1.00000   -2.850619   -25.122162    -13.309500
-89.536502   -27.566045  -152.339030
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1338

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.429836   238.706844    10.565736
1105.168   54.771980  2663.319
 0.25000   12.429836   242.432001    10.565736
1112.950   70.755337  2432.185
 0.50000   12.429836   246.583225    10.565736
1121.425   87.892180  2196.336
 0.75000   12.429836   251.030598    10.565736
1130.608  106.016390  1967.570
 1.00000   12.429836   255.618919    10.565736
1140.525  124.667570  1749.223

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.858034   -87.782690    -15.595301
-193.958820   -31.551113  -468.332467
 0.25000   -8.858034   -83.770306    -15.595301
-185.750617   -43.653445  -418.466761
 0.50000   -8.858034   -79.800717    -15.595301
-177.937300   -55.945591  -368.590418
 0.75000   -8.858034   -76.026873    -15.595301
-170.460469   -68.460407  -318.714094
 1.00000   -8.858034   -72.607330    -15.595301
-163.536786   -81.242687  -269.083405

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.761191   351.756105    10.162675
951.971538   72.337832  3858.933
 0.25000   11.761191   376.801220    10.162675
946.682868   86.208202  3615.054
 0.50000   11.761191   404.725144    10.162675
941.858512  101.025693  3329.635
 0.75000   11.761191   434.646540    10.162675
936.760748  116.522028  3009.312
 1.00000   11.761191   465.500276    10.162675
932.102455  132.551706  2657.570

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.842369   -244.357192    -15.023566
-134.571401   -28.575040  -638.380195
 0.25000   -7.842369   -217.331635    -15.023566
-138.155849   -38.468526  -570.007198
 0.50000   -7.842369   -190.583822    -15.023566
-142.161335   -48.464292  -501.679422
 0.75000   -7.842369   -165.158909    -15.023566
-146.623869   -58.581881  -433.256834
 1.00000   -7.842369   -142.115505    -15.023566
-151.583865   -68.804197  -364.978109

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.517187   376.609651     9.302276
839.129575   73.717352  4180.584
 0.25000   12.517187   397.222182     9.302276
835.395328   88.536660  3890.811
 0.50000   12.517187   420.202753     9.302276
831.817936  104.299776  3567.464
 0.75000   12.517187   444.827256     9.302276
828.379966  120.677562  3222.135
 1.00000   12.517187   470.219101     9.302276
825.073940  137.515391  2858.892

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.713058   -226.170439    -15.476989
-453.391131   -26.234832  -694.000855
 0.25000   -7.713058   -203.929543    -15.476989
-455.181461   -34.815707  -619.702970
 0.50000   -7.713058   -181.917264    -15.476989
-457.852282   -43.729361  -545.039084
 0.75000   -7.713058   -160.993699    -15.476989
-460.845838   -52.967711  -470.297984
 1.00000   -7.713058   -142.028942    -15.476989
-464.194041   -62.312028  -395.666401
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  1339

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX
```

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   1.509544  147.057730    7.885343
297.103619  18.859130  1571.541
 0.25000   1.509544  161.099085    7.885343
316.901296  17.463955  1493.603
 0.50000   1.509544  176.746509    7.885343
338.413772  16.785903  1392.748
 0.75000   1.509544  193.509741    7.885343
361.722615  16.808984  1275.541
 1.00000   1.509544  210.802662    7.885343
386.889843  18.384107  1144.486

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.631943 -131.404228   -2.041270
-148.506797  -21.037126 -239.929250
 0.25000  -6.631943 -116.276259   -2.041270
-127.895205  -29.150918 -214.151405
 0.50000  -6.631943 -101.306175   -2.041270
-108.271790  -37.454929 -188.402554
 0.75000  -6.631943  -87.077488   -2.041270
-89.674135  -45.986649 -162.609650
 1.00000  -6.631943  -74.178685   -2.041270
-72.138020  -54.805091 -137.138314

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.894050  288.757398    7.429472
217.662239  47.190192  3086.909
 0.25000   3.894050  316.775863    7.429472
217.662239  48.497262  2936.862
 0.50000   3.894050  348.006288    7.429472
217.662239  50.474674  2740.983
 0.75000   3.894050  381.470924    7.429472
217.662239  52.976729  2511.804
 1.00000   3.894050  415.978678    7.429472
217.662239  55.899572  2254.155

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.898180 -261.697644   -4.817120
-178.837418  -19.052756 -468.035707
 0.25000  -5.898180 -231.474794   -4.817120
-178.837418  -24.949615 -417.482336
 0.50000  -5.898180 -201.562793   -4.817120
-178.837418  -30.954861 -366.978585
 0.75000  -5.898180 -173.130421   -4.817120
-178.837418  -37.077346 -316.400659
 1.00000  -5.898180 -147.353476   -4.817120
-178.837418  -43.302684 -265.953657

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   8.844005  353.768406   10.250231
720.155063  66.447809  3908.012
 0.25000   8.844005  379.357842   10.250231
720.846492  67.943728  3669.593
 0.50000   8.844005  407.878915   10.250231
721.531500  85.920486  3390.475
 0.75000   8.844005  438.440420   10.250231
722.187987  96.318953  3078.996
 1.00000   8.844005  469.954630   10.250231
722.812864 107.088451  2740.849

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.189175 -254.181225  -11.033543
-222.560081  -29.890019 -629.282635
 0.25000  -8.189175 -226.580136  -11.033543
-222.560081  -38.613466 -561.647792
 0.50000  -8.189175 -199.264564  -11.033543
-222.560081  -48.414635 -494.047680
 0.75000  -8.189175 -173.299482  -11.033543
-222.560081  -58.298115 -426.393254
 1.00000  -8.189175 -149.757708  -11.033543
-222.560081  -68.353287 -358.853587
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1340

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   8.301456  373.910137    9.902641
637.833708  58.404550  4184.435
 0.25000   8.301456  395.545792    9.902641
637.833708  67.344788  3898.921
 0.50000   8.301456  419.661698    9.902641
637.833708  78.795576  3592.873
 0.75000   8.301456  445.502847    9.902641
637.833708  86.613097  3232.045
 1.00000   8.301456  472.149483    9.902641
637.833708  96.780943  2861.134

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.469218 -227.222382  -10.161177
-587.211738  -26.283175 -692.003683
 0.25000  -8.469218 -203.884517  -10.161177
-587.211738  -35.520122 -617.344498
 0.50000  -8.469218 -180.786688  -10.161177
-587.211738  -45.124949 -542.715051
 0.75000  -8.469218 -158.831417  -10.161177
-587.211738  -54.993504 -468.040783
 1.00000  -8.469218 -138.926648  -10.161177
-587.211738  -64.939620 -393.467973

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   0.994089  126.265499    3.195027
80.153496   2.380030  1387.493
 0.25000   0.994089  126.806939    3.195027
78.691251   2.977573  1250.484
 0.50000   0.994089  127.412979    3.195027
77.297672   3.806505  1113.191
 0.75000   0.994089  128.062370    3.195027
75.974621   4.687060  975.616390
 1.00000   0.994089  128.731933    3.195027
74.721569   5.595057  838.711392

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -3.730933  -27.948626   -0.806666
-674.904014  -14.696887 -256.818568
 0.25000  -3.730933  -27.361109   -0.806666
-676.228544  -17.611627 -228.819477
 0.50000  -3.730933  -26.779578   -0.806666
-677.674048  -20.632368 -200.817064
 0.75000  -3.730933  -26.226738   -0.806666
-679.246325  -23.807239 -172.922533
 1.00000  -3.730933  -25.728029   -0.806666
-680.950512  -27.107374 -146.038447

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   5.141653  242.270427    3.919719
188.402465  25.517741  2657.948
 0.25000   5.141653  247.177960    3.919719
177.316472  31.286198  2429.805
 0.50000   5.141653  252.666849    3.919719
166.751622  37.387056  2194.728
 0.75000   5.141653  258.548508    3.919719
156.719958  43.572117  1964.748
 1.00000   5.141653  264.612987    3.919719
147.214643  49.800653  1742.811

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.737385  -96.040997   -5.303884
-996.135313  -16.836564 -455.405890
 0.25000  -4.737385  -90.721194   -5.303884
-1006.126  -20.041125 -405.789940
 0.50000  -4.737385  -85.455750   -5.303884
-1017.044  -23.386616 -356.175785
 0.75000  -4.737385  -80.450194   -5.303884
-1028.926  -26.807803 -306.520514
 1.00000  -4.737385  -75.931003   -5.303884
-1041.798  -30.302253 -256.929696
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1341

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.960959  349.609858    6.582468
154.631158  39.359637  3794.526
 0.25000   3.960959  374.961401    6.582468
159.037153  40.959662  3554.632
 0.50000   3.960959  403.210391    6.582468
163.746557  42.857604  3272.557
 0.75000   3.960959  433.480526    6.582468
168.749617  44.977371  2955.382
 1.00000   3.960959  464.694580    6.582468
174.027647  47.328686  2606.042

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.309427 -245.248612   -4.479081
-837.737827  -19.897882 -618.773791
 0.25000  -6.309427 -217.913081   -4.479081
-834.398606  -24.176223 -551.585256
 0.50000  -6.309427 -190.860565   -4.479081
-831.246704  -28.692805 -484.452482
 0.75000  -6.309427 -165.145701   -4.479081
-828.301161  -33.282868 -417.231167
 1.00000  -6.309427 -141.824526   -4.479081
-827.618908  -37.921318 -350.159881

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.172546  377.084637   11.089266
521.152356  49.017545  4168.495
 0.25000   6.172546  397.921740   11.089266
524.110715  54.159782  3878.449
 0.50000   6.172546  421.141634   11.089266
527.327729  59.901320  3554.294
 0.75000   6.172546  446.022819   11.089266
530.691730  66.038655  3207.217
 1.00000   6.172546  471.679824   11.089266
534.218568  72.443005  2841.091

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.959626 -226.146606   -7.310799
-748.239397  -33.759005 -689.738873
 0.25000  -9.959626 -203.677128   -7.310799
-746.178344  -44.005754 -615.174781
 0.50000  -9.959626 -181.440239   -7.310799
-744.236868  -54.415677 -540.646928
 0.75000  -9.959626 -160.302854   -7.310799
-743.222559  -64.962400 -466.038836
 1.00000  -9.959626 -141.134237   -7.310799
-743.171074  -75.685218 -391.558239

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  10.149166  366.124650   10.005576
924.080451  63.696236  4039.004
 0.25000  10.149166  391.701297   10.005576
934.558184  73.322035  3775.139
 0.50000  10.149166  421.206668   10.005576
945.275762  84.187423  3487.485
 0.75000  10.149166  459.228700   10.005576
956.206912  95.939227  3174.597
 1.00000  10.149166  499.277258   10.005576
971.371664 108.183317  2854.535

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.156329 -311.569087  -12.719444
-847.655137  -29.315802 -530.823118
 0.25000  -9.156329 -266.438981  -12.719444
-860.858727  -37.744599 -473.410703
 0.50000  -9.156329 -221.956608  -12.719444
-874.334207  -46.240319 -415.998289
 0.75000  -9.156329 -181.047641  -12.719444
-888.194490  -56.506877 -358.585875
 1.00000  -9.156329 -144.088951  -12.719444
-907.263006  -67.130016 -301.173461
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1342

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  12.517187  377.084637   11.089266
 1105.168  73.717352  4184.435
 0.25000  12.517187  397.921740   11.089266
 1112.950  88.536660  3898.921
 0.50000  12.517187  421.141634   11.089266
 1121.425  104.299776  3579.873
 0.75000  12.517187  446.022819   11.089266
 1130.608  120.677562  3232.045
 1.00000  12.517187  472.149483   11.089266
 1140.525  137.515391  2861.134

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.959626 -261.697644  -15.595301
-996.135313  -33.759005 -694.400855
 0.25000  -9.959626 -231.474794  -15.595301
-1006.126  -44.005754 -619.702970
 0.50000  -9.959626 -201.562793  -15.595301
-1017.044  -55.945591 -545.039084
 0.75000  -9.959626 -173.299482  -15.595301
-1028.926  -68.460407 -470.297984
 1.00000  -9.959626 -149.757708  -15.595301
-1041.798  -81.242687 -395.666401

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  12.517187  377.084637   11.089266
 1105.168  73.717352  4184.435
 0.25000  12.517187  397.921740   11.089266
 1112.950  88.536660  3898.921
 0.50000  12.517187  421.206668   11.089266
 1121.425  104.299776  3579.873
 0.75000  12.517187  446.022819   11.089266
 1130.608  120.677562  3232.045
 1.00000  12.517187  499.277258   11.089266
 1140.525  137.515391  2861.134

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.959626 -311.569087  -15.595301
-996.135313  -33.759005 -694.400855
 0.25000  -9.959626 -266.438981  -15.595301
-1006.126  -44.005754 -619.702970
 0.50000  -9.959626 -221.956608  -15.595301
-1017.044  -55.945591 -545.039084
 0.75000  -9.959626 -181.047641  -15.595301
-1028.926  -68.460407 -470.297984
 1.00000  -9.959626 -149.757708  -15.595301
-1041.798  -81.242687 -395.666401

 COMB     DESIGN ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  12.517187  377.084637   11.089266
 1105.168  73.717352  4184.435
 0.25000  12.517187  397.921740   11.089266
 1112.950  88.536660  3898.921
 0.50000  12.517187  421.206668   11.089266
 1121.425  104.299776  3579.873
 0.75000  12.517187  459.228700   11.089266
 1130.608  120.677562  3232.045
 1.00000  12.517187  499.277258   11.089266
 1140.525  137.515391  2861.134

 COMB     DESIGN ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.959626 -311.569087  -15.595301
-996.135313  -33.759005 -694.400855
 0.25000  -9.959626 -266.438981  -15.595301
-1006.126  -44.005754 -619.702970
 0.50000  -9.959626 -221.956608  -15.595301
-1017.044  -55.945591 -545.039084
 0.75000  -9.959626 -181.047641  -15.595301
-1028.926  -68.460407 -470.297984
 1.00000  -9.959626 -149.757708  -15.595301
-1041.798  -81.242687 -395.666401
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1343

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM      105 ========== LENGTH =    4.957807

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.265942  120.597812    0.595544
613.748831  64.606227  755.879741
 0.25000   7.265942  121.209190    0.595544
614.894603  65.480412  609.363137
 0.50000   7.265942  121.929373    0.595544
616.070558  66.494618  461.755775
 0.75000   7.265942  122.751531    0.595544
617.282772  67.697876  312.689365
 1.00000   7.265942  123.667962    0.595544
618.977519  69.147654  161.820303

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -1.412776  -20.066192   -2.648722
-68.967083  -11.999783 -112.968533
 0.25000  -1.412776  -19.168040   -2.648722
-67.305069  -12.437181  -91.802111
 0.50000  -1.412776  -18.333430   -2.648722
-64.965467  -12.874582  -70.635688
 0.75000  -1.412776  -17.648836   -2.648722
-63.993172  -13.311983  -49.469266
 1.00000  -1.412776  -17.345554   -2.648722
-62.994582  -13.749397  -28.302798

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   8.373712  259.499861    1.950254
972.337432  78.294940  1673.243
 0.25000   8.373712  265.610588    1.950254
982.631614  79.572624  1385.792
 0.50000   8.373712  272.809270    1.950254
993.193351  80.979197  1088.593
 0.75000   8.373712  281.027291    1.950254
 1004.075  82.457720  787.268107
 1.00000   8.373712  290.184691    1.950254
 1019.288  84.110589  482.911075

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.347526  -60.784250   -3.131014
-166.732137  -66.320771 -203.352448
 0.25000  -8.347526  -51.810078   -3.131014
-151.818673  -67.315174 -165.084854
 0.50000  -8.347526  -43.447231   -3.131014
-130.801140  -68.309589 -126.817260
 0.75000  -8.347526  -38.595566   -3.131014
-122.072507  -69.304012  -88.549666
 1.00000  -8.347526  -33.573092   -3.131014
-113.112735  -70.298412  -50.281590

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.639645  404.665507    4.405893
810.417233  137.893258  2637.580
 0.25000   7.639645  440.031318    4.405893
808.187065  77.998230  2312.144
 0.50000   7.639645  481.721555    4.405893
805.702418  75.451699  1924.394
 0.75000   7.639645  529.315720    4.405893
803.981275  77.618487  1458.017
 1.00000   7.639645  582.194255    4.405893
803.981275  79.992443  895.869947

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.436885 -216.858849   -3.570020
-85.313650  -44.367618 -274.127194
 0.25000  -6.436885 -165.053046   -3.570020
-85.313650  -45.193462 -222.254226
 0.50000  -6.436885 -115.540238   -3.570020
-85.313650  -46.019309 -170.381258
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1344

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000  -6.436885  -87.450747   -3.570020
-85.313650  -46.845157 -118.508290
 1.00000  -6.436885  -58.374101   -3.570020
-85.414791  -47.671004  -66.632579

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  10.135106  435.130686    4.390814
 707.647114  103.165702  2850.331
 0.25000  10.135106  464.216688    4.390814
707.286542  100.130321  2459.107
 0.50000  10.135106  498.501590    4.390814
707.286542  97.981165  2017.324
 0.75000  10.135106  537.642121    4.390814
707.286542  99.237314  1517.860
 1.00000  10.135106  581.129045    4.390814
707.286542 100.666411  950.044902

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.270613 -190.088237   -3.391470
-394.751482  -41.213521 -301.133165
 0.25000  -6.270613 -147.482907   -3.391470
-394.751482  -41.663287 -243.883671
 0.50000  -6.270613 -106.778254   -3.391470
-394.751482  -42.113237 -186.634178
 0.75000  -6.270613  -83.678143   -3.391470
-394.751482  -42.563339 -129.384685
 1.00000  -6.270613  -59.764837   -3.391470
-394.751482  -43.013141  -72.135006

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   0.810291  184.314254    2.365558
285.728478   8.430225  1214.086
 0.25000   0.810291  203.668731    2.365558
304.708295   9.186302  1083.360
 0.50000   0.810291  226.474426    2.365558
324.135708   9.967505  919.013845
 0.75000   0.810291  252.509688    2.365558
344.078209  10.770270  716.445744
 1.00000   0.810291  281.486466    2.365558
371.950134  11.602734  467.915948

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -7.966732 -111.275382   -0.783381
-144.824756  -58.037713 -105.228766
 0.25000  -7.966732  -82.881539   -0.783381
-117.570065  -59.177152  -85.236861
 0.50000  -7.966732  -56.151469   -0.783381
-78.860504  -60.316616  -65.244957
 0.75000  -7.966732  -40.783029   -0.783381
-62.858565  -61.456090  -45.253053
 1.00000  -7.966732  -24.873443   -0.783381
-46.497405  -62.595563  -25.259655

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.705371  358.055161    4.978253
196.906378  46.513199  2372.667
 0.25000   3.705371  396.674690    4.978253
196.906378  41.733219  2125.423
 0.50000   3.705371  442.196265    4.978253
196.906378  38.193275  1811.111
 0.75000   3.705371  494.165015    4.978253
196.906378  38.941092  1419.846
 1.00000   3.705371  551.904904    4.978253
196.906378  39.764213  936.396032

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.173822 -222.284712   -1.529928
-158.377627  -38.638500 -202.727336
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1345

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000  -6.173822 -165.715144   -1.529928
-158.377627  -39.119451 -164.016999
 0.50000  -6.173822 -111.674542   -1.529928
-158.377627  -39.600655 -125.306662
 0.75000  -6.173822  -81.003476   -1.529928
-158.377627  -40.082068  -86.493326
 1.00000  -6.173822  -49.252200   -1.529928
-158.377627  -40.563070  -47.882993

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.051176  422.164732    4.804789
634.982056  78.806455  2783.835
 0.25000   7.051176  457.313515    4.804789
634.982052  74.789029  2438.698
 0.50000   7.051176  498.741485    4.804789
634.982052  72.375834  2022.392
 0.75000   7.051176  546.037266    4.804789
634.982052  73.393605  1554.654
 1.00000   7.051176  598.585894    4.804789
634.982052  74.494954  991.377626

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -7.282066 -215.632575   -2.429672
-187.011227  -50.527115 -272.698846
 0.25000  -7.282066 -164.148421   -2.429672
-187.011227  -50.366510 -220.910513
 0.50000  -7.282066 -114.981124   -2.429672
-187.011227  -50.206134 -169.122180
 0.75000  -7.282066  -87.068118   -2.429672
-187.011227  -50.045947 -117.333847
 1.00000  -7.282066  -58.170622   -2.429672
-187.011227  -49.885389  -65.542787

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.912801  435.678208    4.258918
556.238477  74.094359  2854.711
 0.25000   6.912801  465.228245    4.258918
556.238477  71.153202  2464.328
 0.50000   6.912801  500.190160    4.258918
556.238477  69.162796  2022.390
 0.75000   6.912801  540.035197    4.258918
556.238477  70.468483  1519.347
 1.00000   6.912801  584.305033    4.258918
556.238477  71.844084  943.582522

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -7.411090 -192.622820   -2.846060
-516.518037  -49.832108 -299.889546
 0.25000  -7.411090 -149.250282   -2.846060
-516.518037  -49.260277 -242.700778
 0.50000  -7.411090 -107.816731   -2.846060
-516.518037  -48.689969 -185.512010
 0.75000  -7.411090  -84.300873   -2.846060
-516.518037  -48.123820 -128.323243
 1.00000  -7.411090  -59.956805   -2.846060
-516.518037  -47.557429  -71.134645

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   0.557051  126.282318    0.620332
 61.570958   3.283066  770.935637
 0.25000   0.557051  127.002391    0.620332
 59.442671   3.712743  617.999484
 0.50000   0.557051  127.855523    0.620332
 56.504507   4.316916  463.891893
 0.75000   0.557051  128.829510    0.620332
```

55.269322 4.930618 308.171402
1.00000 0.557051 129.908109 0.620332
53.988861 5.553558 150.809053
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1346

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.685255 -20.916898 -2.559492
-592.580612 -21.692868 -110.929883
0.25000 -2.685255 -19.861031 -2.559492
-594.016502 -18.753222 -89.492212
0.50000 -2.685255 -18.823369 -2.559492
-595.498826 -16.140178 -68.054542
0.75000 -2.685255 -18.248741 -2.559492
-597.040089 -14.889391 -46.616773
1.00000 -2.685255 -17.656438 -2.559492
-599.196299 -14.029681 -25.180493

COMB DB-G3-2 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.655579 264.858642 2.360461
178.743074 54.957403 1699.296
0.25000 5.655579 272.568997 2.360461
158.952611 53.911248 1414.379
0.50000 5.655579 281.697752 2.360461
131.670218 53.275652 1117.469
0.75000 5.655579 292.119651 2.360461
120.191177 52.650056 812.663524
1.00000 5.655579 303.666075 2.360461
108.283302 52.037842 500.739475

COMB DB-G3-2 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.428513 -69.411593 -3.012158
-899.426429 -22.577679 -197.442723
0.25000 -3.428513 -58.107538 -3.012158
-912.756678 -20.665197 -159.359032
0.50000 -3.428513 -47.040007 -3.012158
-926.526010 -19.646195 -121.275341
0.75000 -3.428513 -40.891057 -3.012158
-940.849711 -18.849418 -83.189777
1.00000 -3.428513 -34.549248 -3.012158
-960.890397 -18.135053 -45.109614

COMB DB-G3-3 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.133449 406.744745 4.571679
112.030133 37.308538 2636.965
0.25000 3.133449 442.430454 4.571679
112.030133 33.011574 2311.100
0.50000 3.133449 484.489491 4.571679
112.030133 31.066814 1922.761
0.75000 3.133449 532.506004 4.571679
112.030133 32.270541 1455.645
1.00000 3.133449 585.855859 4.571679
112.030133 33.554077 892.969029

COMB DB-G3-3 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.960518 -218.018883 -3.444463
-726.548912 -25.636259 -267.992584
0.25000 -4.960518 -165.749300 -3.444463
-726.548912 -24.245528 -216.509308
0.50000 -4.960518 -115.842467 -3.444463
-726.548912 -23.543500 -165.026031
0.75000 -4.960518 -87.504204 -3.444463
-726.548912 -22.999537 -113.542755
1.00000 -4.960518 -58.165475 -3.444463
-726.548912 -22.518003 -62.058823

COMB DB-G3-4 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.560689 436.059898 4.359654
445.206028 51.673295 2639.048
0.25000 4.560689 465.281066 4.359654
445.206028 48.513608 2447.136
0.50000 4.560689 499.724237 4.359654
445.206028 46.693404 2004.659
0.75000 4.560689 539.045621 4.359654
445.206028 48.052581 1455.943
1.00000 4.560689 582.733749 4.359654
445.206028 49.487702 931.232954
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1347

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.375854 -190.660606 -3.356900
-640.937456 -65.205814 -298.927406
0.25000 -9.375854 -147.857891 -3.356900
-640.937456 -63.960399 -241.780071
0.50000 -9.375854 -106.970992 -3.356900
-640.937456 -63.284477 -184.632737
0.75000 -9.375854 -83.764208 -3.356900
-640.937456 -62.739224 -127.485403
1.00000 -9.375854 -59.739886 -3.356900
-640.937456 -62.245559 -70.337566

COMB DL-G1-1 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.877438 146.031850 1.056521
778.525141 96.877190 836.121545
0.25000 10.877438 136.562150 1.056521
779.631856 99.296818 674.059056
0.50000 10.877438 147.173664 1.056521
780.836558 101.767188 511.076065
0.75000 10.877438 147.855258 1.056521
782.142614 104.286139 347.075830
1.00000 10.877438 148.592227 1.056521
783.553891 106.917516 182.177114

COMB DL-G1-1 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.722195 -26.307405 -2.799258
-84.952599 -24.142153 -152.213173
0.25000 -2.722195 -25.793925 -2.799258
-83.774142 -25.312766 -125.235318
0.50000 -2.722195 -25.269325 -2.799258
-82.652400 -26.485523 -98.277333
0.75000 -2.722195 -24.753241 -2.799258
-81.589400 -27.656967 -71.294088
1.00000 -2.722195 -24.264917 -2.799258
-80.588828 -28.830145 -44.444025

COMB DL-G1-2 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.534466 294.544727 2.443369
1197.053 115.820402 1744.999
0.25000 12.534466 298.953878 2.443369
1204.956 119.127152 1434.243
0.50000 12.534466 304.035946 2.443369
1213.545 122.503291 1118.199
0.75000 12.534466 309.701811 2.443369
1222.858 125.910707 800.489734
1.00000 12.534466 315.827705 2.443369
1232.906 129.395860 488.315523

COMB DL-G1-2 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.936987 -64.687429 -3.621311
-178.327066 -77.116662 -268.902150
0.25000 -8.936987 -60.417862 -3.621311
-169.943216 -79.045551 -219.256785
0.50000 -8.936987 -56.055850 -3.621311
-161.970124 -80.980873 -169.633922
0.75000 -8.936987 -51.764408 -3.621311
-154.420294 -82.917088 -120.314970
1.00000 -8.936987 -47.703624 -3.621311
-147.306551 -84.858943 -71.279601

COMB DL-G1-3 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.836478 431.404024 4.438187
1029.754 121.392619 2654.139
0.25000 11.836478 461.018460 4.438187
1023.833 121.562028 2275.213
0.50000 11.836478 495.171078 4.438187
1018.040 121.798785 1846.869
0.75000 11.836478 533.261583 4.438187
1012.350 123.599683 1365.423
1.00000 11.836478 574.455794 4.438187
1006.755 126.129771 833.345647
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1348

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.881816 -197.241112 -3.974573
-122.242625 -63.760926 -364.896176
0.25000 -7.881816 -168.489390 -3.974573
-126.374944 -65.484188 -296.642890
0.50000 -7.881816 -139.107531 -3.974573
-131.164219 -67.211304 -228.485487
0.75000 -7.881816 -110.194628 -3.974573
-136.681309 -68.938202 -160.258424
1.00000 -7.881816 -82.838513 -3.974573
-143.010760 -70.936428 -92.539196

COMB DL-G1-4 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.630247 466.516051 4.487231
903.633224 127.690833 2857.581
0.25000 12.630247 490.889434 4.487231
899.440076 127.454650 2423.304
0.50000 12.630247 518.996421 4.487231
895.238337 127.365113 1949.389
0.75000 12.630247 550.344184 4.487231
891.136382 128.639436 1435.390
1.00000 12.630247 584.246263 4.487231
887.077605 130.908644 885.842052

COMB DL-G1-4 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.723104 -179.147545 -4.025019
-476.675312 -59.072466 -395.722426
0.25000 -7.723104 -155.485959 -4.025019
-478.564704 -60.124533 -321.231417
0.50000 -7.723104 -131.305892 -4.025019
-481.864299 -61.271124 -246.819855
0.75000 -7.723104 -107.511810 -4.025019
-485.705417 -62.506230 -172.358462
1.00000 -7.723104 -84.998043 -4.025019
-490.159478 -64.173533 -98.295654

COMB DL-G2-1 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.380504 181.726700 2.126736
322.660868 14.889697 1143.603
0.25000 1.380504 198.336606 2.126736
342.661588 15.908215 999.537081
0.50000 1.380504 217.490878 2.126736
364.376876 16.951210 828.521206
0.75000 1.380504 238.842110 2.126736
387.851406 18.013332 629.405452
1.00000 1.380504 261.928414 2.126736
413.117505 19.074924 406.480244

COMB DL-G2-1 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.834905 -99.737558 -0.929563
-140.959086 -54.580563 -137.071459
0.25000 -6.834905 -83.639468 -0.929563
-119.986303 -55.677680 -111.911026
0.50000 -6.834905 -67.191236 -0.929563
-100.077547 -56.783264 -86.787632
0.75000 -6.834905 -51.008046 -0.929563
-81.263262 -57.891416 -61.647323
1.00000 -6.834905 -35.693892 -0.929563
-63.579008 -59.001398 -36.549821

COMB DL-G2-2 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.724460 356.242760 4.411148
235.089226 49.715776 2254.340
0.25000 3.724460 389.375012 4.411148
235.089226 46.763650 1974.948
0.50000 3.724460 427.580652 4.411148
235.089226 44.193949 1641.266
0.75000 3.724460 470.177445 4.411148
235.089226 43.863010 1252.607
1.00000 3.724460 516.252374 4.411148
235.089226 44.684563 814.029129
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1349

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.009870 -199.469637 -1.695856
-187.018997 -41.739947 -266.044196
0.25000 -6.009870 -167.315421 -1.695856
-187.018997 -42.160013 -215.650719
0.50000 -6.009870 -134.457223 -1.695856
-187.018997 -42.627346 -165.367898
0.75000 -6.009870 -102.125893 -1.695856
-187.018997 -43.317110 -115.038382
1.00000 -6.009870 -71.525183 -1.695856
-187.018997 -45.130119 -64.728758

COMB DL-G2-3 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.754277 439.795300 4.602587
782.765792 97.142241 2738.924
0.25000 8.754277 470.055622 4.602587
783.390655 95.743489 2354.986
0.50000 8.754277 504.946791 4.602587
784.015518 94.951720 1921.045
0.75000 8.754277 543.849219 4.602587
784.640381 96.054490 1435.618
1.00000 8.754277 585.927603 4.602587
785.265245 98.158223 902.260213

COMB DL-G2-3 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.319210 -200.414832 -2.984903
-224.230767 -64.819535 -358.855804
0.25000 -8.319210 -171.050550 -2.984903
-224.230767 -65.699278 -291.383125
0.50000 -8.319210 -141.043518 -2.984903
-224.230767 -66.662989 -224.025127
0.75000 -8.319210 -111.516086 -2.984903
-224.230767 -67.921897 -156.616689
1.00000 -8.319210 -83.570472 -2.984903
-224.230767 -70.155098 -89.213465

COMB DL-G2-4 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.235156 466.168704 4.258253
685.894348 88.136008 2861.428
0.25000 8.235156 491.753187 4.258253
685.894348 87.106805 2430.756
0.50000 8.235156 521.254841 4.258253
685.894348 86.517595 1957.535
0.75000 8.235156 554.148238 4.258253
685.894348 87.778571 1439.598
1.00000 8.235156 589.726962 4.258253
685.894348 90.003880 879.604064

COMB DL-G2-4 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.598817 -184.148881 -3.690335
-629.282595 -63.842942 -393.610251
0.25000 -8.598878 -159.319639 -3.690335
-629.282595 -63.992935 -319.180146
0.50000 -8.598878 -133.946778 -3.690335
-629.282595 -64.326122 -244.854090
0.75000 -8.598878 -108.980761 -3.690335
-629.282595 -64.852506 -170.469544
1.00000 -8.598878 -85.351115 -3.690335
-629.282595 -66.519800 -96.102334

COMB DL-G3-1 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.881147 152.016127 0.884517
72.583751 4.427393 841.866204
0.25000 0.881147 152.655420 0.884517
71.067143 4.685600 673.699935
0.50000 0.881147 153.396336 0.884517
69.618244 5.182863 504.456512
0.75000 0.881147 154.222365 0.884517
68.236565 5.783053 333.966008
1.00000 0.881147 155.115802 0.884517
66.925166 6.442931 162.228355
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1350

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.759044 -27.099942 -2.918631
-739.772764 -29.485414 -146.279918
0.25000 -3.759044 -26.475225 -2.918631
-741.139718 -26.826309 -119.106444
0.50000 -3.759044 -25.836727 -2.918631
-742.637562 -24.526669 -91.944320
0.75000 -3.759044 -25.208107 -2.918631
-744.274488 -22.953391 -64.797544
1.00000 -3.759044 -24.615345 -2.918631
-746.059111 -21.563668 -37.712527

COMB DL-G3-2 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.104934 297.980102 2.606231
174.756082 47.779366 1747.260
0.25000 5.104934 303.775346 2.606231
163.254694 46.995765 1438.257
0.50000 5.104934 310.486844 2.606231
152.241556 46.591727 1121.139
0.75000 5.104934 317.967776 2.606231
141.747304 46.672202 800.950951
1.00000 5.104934 326.062174 2.606231
131.773812 46.352562 481.674477

COMB DL-G3-2 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.678046 -72.005701 -3.662690
-1086.933 -33.162978 -257.276238
0.25000 -4.678046 -66.348636 -3.662690
-1097.256 -30.513392 -207.908492
0.50000 -4.678046 -60.567084 -3.662690
-1108.593 -28.638956 -158.533195
0.75000 -4.678046 -54.875396 -3.662690
-1120.995 -27.072136 -109.133746
1.00000 -4.678046 -49.505022 -3.662690
-1134.513 -25.714892 -59.738790

COMB DL-G3-3 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.742825 428.094748 4.349745
152.597369 41.791795 2609.783
0.25000 3.742825 458.075359 4.349745
156.636812 39.159583 2236.015
0.50000 3.742825 492.633236 4.349745
160.787079 38.305380 1811.898
0.75000 3.742825 531.168957 4.349745
164.998761 38.845740 1334.573
1.00000 3.742825 572.848235 4.349745
169.215821 40.149714 804.762238

COMB DL-G3-3 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.352680 -198.158832 -3.973033
-914.897977 -39.731809 -350.501500
0.25000 -6.352680 -169.077211 -3.973033
-917.937669 -37.719578 -282.580450
0.50000 -6.352680 -139.357813 -3.973033
-909.269015 -36.513082 -216.743442
0.75000 -6.352680 -110.114316 -3.973033
-906.915137 -36.026115 -149.861963
1.00000 -6.352680 -82.433461 -3.973033
-905.768996 -36.721071 -83.012712

COMB DL-G3-4 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.976149 467.343846 4.337562
556.086296 64.481134 2842.724
0.25000 5.976149 491.985401 4.337562
558.761576 63.152792 2408.156
0.50000 5.976149 520.392694 4.337562
561.465698 63.117887 1933.092
0.75000 5.976149 552.065584 4.337562
564.158576 64.355043 1417.197
1.00000 5.976149 586.324371 4.337562
566.790029 66.785112 864.162576
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1351

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.131542 -180.103870 -4.157622
-807.330167 -76.128379 -391.781921
0.25000 -10.131542 -156.199263 -4.157622
-805.598832 -74.861819 -317.470117
0.50000 -10.131542 -131.770324 -4.157622
-804.074127 -74.252295 -243.231152
0.75000 -10.131542 -107.732497 -4.157622
-802.852583 -74.219089 -168.955529
1.00000 -10.131542 -84.980089 -4.157622
-802.654596 -75.336699 -94.682064

COMB DB ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.135106 436.059888 4.978253
972.337432 103.165702 2854.711
0.25000 10.135106 465.288245 4.978253
982.631614 100.130321 2464.328
0.50000 10.135106 500.190160 4.978253
993.193351 97.981165 2032.462
0.75000 10.135106 546.037266 4.978253
1004.075 99.237314 1554.654
1.00000 10.135106 598.585894 4.978253
1019.288 100.666411 991.377626

COMB DB ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.375854 -222.284712 -3.570020
-899.426429 -66.320771 -301.133165
0.25000 -9.375854 -165.749300 -3.570020
-912.756678 -67.315174 -243.883671
0.50000 -9.375854 -115.842467 -3.570020
-926.526010 -68.309589 -186.634178
0.75000 -9.375854 -87.504204 -3.570020
-940.849711 -69.304012 -129.384685
1.00000 -9.375854 -59.956805 -3.570020
-960.890397 -70.298412 -72.135006

COMB DL ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.630247 467.343846 4.602587
1197.053 127.690833 2861.428
0.25000 12.630247 491.985401 4.602587
1204.956 127.454650 2430.756
0.50000 12.630247 521.254841 4.602587
1213.545 127.365113 1957.535
0.75000 12.630247 554.148238 4.602587
1222.858 128.639436 1439.598
1.00000 12.630247 589.726962 4.602587
1232.906 130.908644 902.260213

COMB DL ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.131542 -200.414832 -4.157622
-1086.933 -77.116662 -395.722426
0.25000 -10.131542 -171.050550 -4.157622
-1097.256 -79.045551 -321.231417
0.50000 -10.131542 -141.043518 -4.157622
-1108.593 -80.980873 -246.819855
0.75000 -10.131542 -111.516086 -4.157622
-1120.995 -82.917088 -172.358462
1.00000 -10.131542 -85.351115 -4.157622
-1134.513 -84.858943 -98.295654

COMB CAR ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.630247 467.343846 4.978253
1197.053 127.690833 2861.428
0.25000 12.630247 491.985401 4.978253
1204.956 127.454650 2430.328
0.50000 12.630247 521.254841 4.978253
1213.545 127.365113 2032.462
0.75000 12.630247 554.148238 4.978253
1222.858 128.639436 1554.654
1.00000 12.630247 598.585894 4.978253
1232.906 130.908644 991.377626
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1352

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.131542 -222.284712 -4.157622
-1086.933 -77.116662 -395.722426
0.25000 -10.131542 -171.050550 -4.157622
-1097.256 -79.045551 -321.231417
0.50000 -10.131542 -141.043518 -4.157622
-1108.593 -80.980873 -246.819855
0.75000 -10.131542 -111.516086 -4.157622
-1120.995 -82.917088 -172.358462
1.00000 -10.131542 -85.351115 -4.157622
-1134.513 -84.858943 -98.295654

COMB DESIGN ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.630247 467.343846 4.978253
1197.053 127.690833 2861.428
0.25000 12.630247 491.985401 4.978253
1204.956 127.454650 2464.328
0.50000 12.630247 521.254841 4.978253
1213.545 127.365113 2032.462
0.75000 12.630247 554.148238 4.978253
1222.858 128.639436 1554.654
1.00000 12.630247 598.585894 4.978253
1232.906 130.908644 991.377626

COMB DESIGN ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.131542 -222.284712 -4.157622
-1086.933 -77.116662 -395.722426
0.25000 -10.131542 -171.050550 -4.157622
-1097.256 -79.045551 -321.231417
0.50000 -10.131542 -141.043518 -4.157622
-1108.593 -80.980873 -246.819855
0.75000 -10.131542 -111.516086 -4.157622
-1120.995 -82.917088 -172.358462
1.00000 -10.131542 -85.351115 -4.157622
-1134.513 -84.858943 -98.295654

ELEM 106 ================== LENGTH = 1.487549

COMB DB-G1-1 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.479075 102.030938 42.532500
396.874271 66.012807 160.386599
0.25000 7.479075 102.297539 42.532500
397.499608 50.199132 122.732004
0.50000 7.479075 102.583192 42.532500
398.124857 34.386065 84.893572
0.75000 7.479075 102.879418 42.532500
398.749566 18.580803 46.846878
1.00000 7.479075 103.179255 42.532500
399.373618 2.874633 8.866604

COMB DB-G1-1 ------------------ MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.342542	-18.696703	-7.279802
-41.414176	-12.202022	-28.247510	
0.25000	-1.342542	-18.531218	-7.279802
-40.891067	-9.496028	-21.469253	
0.50000	-1.342542	-18.360035	-7.279802
-40.368933	-6.792258	-14.690997	
0.75000	-1.342542	-18.226652	-7.279802
-39.847616	-4.251715	-7.947361	
1.00000	-1.342542	-18.226630	-7.279802
-39.326955	-2.044690	-1.375462	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.551249	321.281345	49.071790
698.007478	78.173968	480.866869	
0.25000	8.551249	323.955706	49.071790
703.618233	59.947004	364.299710	
0.50000	8.551249	326.820645	49.071790
709.225764	41.729999	245.887964	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1353

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	8.551249	329.791344	49.071790
714.827005	23.557316	125.398388	
1.00000	8.551249	332.798170	49.071790
720.426621	5.975070	10.081415	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.548802	-37.209219	-47.134626
-132.384514	-70.132725	-50.218532	
0.25000	-8.548802	-35.549157	-47.134626
-127.689281	-52.618371	-38.099088	
0.50000	-8.548802	-33.832121	-47.134626
-123.003802	-35.104239	-25.979661	
0.75000	-8.548802	-32.589037	-47.134626
-118.326483	-17.750463	-14.030010	
1.00000	-8.548802	-32.588821	-47.134626
-113.655730	-3.059319	-9.487432	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.842126	598.871982	45.540434
563.796429	72.061596	894.368096	
0.25000	7.842126	614.870282	45.540434
563.586040	55.703869	689.632147	
0.50000	7.842126	631.982495	45.540434
563.586040	39.571170	473.843894	
0.75000	7.842126	649.713651	45.540434
563.586040	23.596017	245.570024	
1.00000	7.842126	667.650695	45.540434
563.586040	8.502872	9.334645	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.584072	-66.106082	-33.323001
-67.712796	-46.860473	-66.636728	
0.25000	-6.584072	-56.172650	-33.323001
-67.712796	-34.619065	-50.434744	
0.50000	-6.584072	-45.907914	-33.323001
-67.712796	-23.715036	-34.232761	
0.75000	-6.584072	-43.565630	-33.323001
-68.348704	-12.955159	-18.033004	
1.00000	-6.584072	-43.565630	-33.323001
-70.048070	-3.624738	-7.503251	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.453806	634.947422	60.489769
510.346782	93.788500	949.499835	
0.25000	10.453806	648.099499	60.489769
510.346782	71.783288	726.151263	
0.50000	10.453806	662.155849	60.489769
510.346782	49.940433	497.716676	
0.75000	10.453806	676.739207	60.489769
510.346782	28.225551	257.019918	
1.00000	10.453806	691.485633	60.489769
510.346782	9.607895	12.153675	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.427538	-66.163540	-32.606719
-302.060846	-44.191625	-72.241229	
0.25000	-6.427538	-57.998440	-32.606719
-302.060846	-32.318035	-54.548758	
0.50000	-6.427538	-49.560901	-32.606719
-302.060846	-21.463760	-36.856599	
0.75000	-6.427538	-47.575719	-32.606719
-302.060846	-11.645605	-19.166596	
1.00000	-6.427538	-47.575719	-32.606719
-302.060846	-3.892500	-7.660625	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.743807	319.015899	4.517113
261.195899	8.608722	467.331573	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1354

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.743807	327.600366	4.517113
271.440804	7.124883	358.164649	
0.50000	0.743807	336.790250	4.517113
281.647817	5.653557	243.072970	
0.75000	0.743807	346.316074	4.517113
291.823397	4.286960	121.278251	
1.00000	0.743807	355.956622	4.517113
301.976689	3.720835	0.845390	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.268421	-30.332005	-45.137874
-122.343330	-64.929960	-25.276628	
0.25000	-8.268421	-25.003112	-45.137874
-113.747491	-48.144253	-19.097234	
0.50000	-8.268421	-19.493426	-45.137874
-105.182602	-31.358694	-12.917840	
0.75000	-8.268421	-16.613574	-45.137874
-96.643606	-14.581552	-6.738173	
1.00000	-8.268421	-16.615637	-45.137874
-88.125446	-1.051535	-9.271453	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.826416	631.670340	22.656840
197.408388	34.940433	936.570146	
0.25000	3.826416	649.131329	22.656840
197.408388	27.171255	721.267737	
0.50000	3.826416	667.805602	22.656840
197.408388	19.609357	493.902608	
0.75000	3.826416	687.153013	22.656840
197.408388	12.217384	252.912179	
1.00000	3.826416	706.730209	22.656840
197.408388	7.026350	4.375395	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.422579	-56.480705	-31.973369
-154.230977	-42.116528	-47.992432	
0.25000	-6.422579	-45.640929	-31.973369
-154.230977	-30.558834	-36.172383	
0.50000	-6.422579	-34.439430	-31.973369
-154.230977	-20.233347	-24.352761	
0.75000	-6.422579	-31.782543	-31.973369
-154.230977	-10.449682	-12.533550	
1.00000	-6.422579	-31.782543	-31.973369
-154.230977	-1.966934	-7.587298	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.272819	665.435133	42.765585
476.570876	67.269010	990.526167	
0.25000	7.272819	681.321329	42.765585
476.570876	51.976302	760.896806	
0.50000	7.272819	698.309883	42.765585
476.570876	36.848267	520.292602	
0.75000	7.272819	715.910930	42.765585
476.570876	21.875516	267.293067	
1.00000	7.272819	733.721082	42.765585
476.570876	8.879588	8.513023	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.568764	-65.640250	-39.138929
-161.239726	-52.602228	-65.603932	
0.25000	-7.568764	-55.779227	-39.138929
-161.239726	-38.376392	-49.571099	
0.50000	-7.568764	-45.589026	-39.138929
-161.239726	-24.915274	-33.538651	
0.75000	-7.568764	-43.110797	-39.138929
-161.239726	-12.395640	-17.509069	
1.00000	-7.568764	-43.110797	-39.138929
-161.239726	-3.234822	-8.810505	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1355

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.131775	634.488960	41.493659
411.167777	65.264054	943.864526	
0.25000	7.131775	647.876501	41.493659
411.167777	50.335282	724.944575	
0.50000	7.131775	662.194281	41.493659
411.167777	35.564742	492.775942	
0.75000	7.131775	677.028163	41.493659
411.167777	20.926664	252.160563	
1.00000	7.131775	692.038224	41.493659
411.167777	9.990915	8.189150	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.705063	-66.133592	-39.956987
-380.728640	-52.216583	-71.302390	
0.25000	-7.705063	-57.822612	-39.956987
-380.728640	-37.570773	-53.751357	
0.50000	-7.705063	-49.234294	-39.956987
-380.728640	-23.878420	-36.200576	
0.75000	-7.705063	-47.197228	-39.956987
-380.728640	-11.308144	-18.651283	
1.00000	-7.705063	-47.197228	-39.956987
-380.728640	-3.771410	-9.368389	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.473309	104.446879	2.511753
40.300301	3.507594	152.533584	
0.25000	0.473309	104.782682	2.511753
39.633584	3.085285	114.080314	
0.50000	0.473309	105.144352	2.511753
38.965702	2.673223	75.396959	
0.75000	0.473309	105.518729	2.511753
38.296644	2.272406	36.413638	
1.00000	0.473309	105.897441	2.511753
37.627202	4.031978	0.611320	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.785081	-17.599453	-14.880163
-409.747928	-18.254299	-25.369498	
0.25000	-2.785081	-17.389127	-14.880163
-410.549900	-12.723021	-18.963100	
0.50000	-2.785081	-17.231340	-14.880163
-411.357646	-7.195587	-12.557407	
0.75000	-2.785081	-17.231340	-14.880163
-412.168390	-1.717248	-6.151878	
1.00000	-2.785081	-17.231340	-14.880163
-412.980218	-1.805202	-3.922225	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.765368	337.487247	33.433387
147.270517	49.579390	503.070595	
0.25000	5.765368	341.068949	33.433387
141.072992	37.710587	381.700901	
0.50000	5.765368	344.921971	33.433387
134.863001	25.852830	257.928165	
0.75000	5.765368	348.910826	33.433387
128.642581	14.016259	131.350334	
1.00000	5.765368	352.946019	33.433387
122.413769	6.981401	6.522662	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.510681	-34.738355	-18.635795
-673.307192	-22.344358	-45.397940	
0.25000	-3.510681	-32.498206	-18.635795
-680.765356	-10.789635	-33.997518	
0.50000	-3.510681	-30.662034	-18.635795
-688.281175	-9.243969	-22.596477	
0.75000	-3.510681	-30.662034	-18.635795
-695.827345	-3.109289	-11.197722	
1.00000	-3.510681	-30.662034	-18.635795
-703.384877	-2.676821	-5.047661	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1356

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.170764	603.588657	18.676640
104.380012	27.922705	894.933467	
0.25000	3.170764	619.713672	18.676640
104.380012	22.116831	688.599346	
0.50000	3.170764	636.956578	18.676640
104.380012	16.469381	471.125445	
0.75000	3.170764	654.821230	18.676640
104.380012	10.980644	241.070570	
1.00000	3.170764	672.898162	18.676640
104.380012	9.450798	3.753772	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.156913	-64.693937	-24.651081
-524.984978	-28.528450	-62.351711	
0.25000	-5.156913	-54.685449	-24.651081
-524.984978	-19.664855	-46.814223	
0.50000	-5.156913	-44.342779	-24.651081
-524.984978	-11.374366	-31.277300	
0.75000	-5.156913	-41.785086	-24.651081
-524.984978	-4.747122	-15.740722	
1.00000	-5.156913	-41.785086	-24.651081
-524.984978	-3.288698	-6.881717	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.610668	629.451564	27.025968
346.250192	42.441339	932.251959	
0.25000	4.610668	642.662449	27.025968
346.250192	33.320261	713.032276	
0.50000	4.610668	656.791070	27.025968
346.250192	24.364796	484.685953	
0.75000	4.610668	671.428994	27.025968
346.250192	15.559764	246.075888	
1.00000	4.610668	686.240779	27.025968
346.250192	10.268177	5.433303	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.740765	-65.607490	-51.073068
-470.581700	-67.865129	-70.559712	
0.25000	-9.740765	-57.406347	-51.073068
-470.581700	-49.118780	-53.115249	
0.50000	-9.740765	-48.931514	-51.073068
-470.581700	-31.255101	-35.671253	
0.75000	-9.740765	-46.912113	-51.073068
-470.581700	-14.199207	-18.228296	
1.00000	-9.740765	-46.912113	-51.073068
-470.581700	-3.769991	-11.892023	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.164247	125.397483	63.582624
502.732360	100.362831	180.676641	
0.25000	11.164247	125.634029	63.582624
503.265490	76.721835	138.597954	
0.50000	11.164247	125.879477	63.582624
503.811390	53.081286	96.409216	
0.75000	11.164247	126.132690	63.582624
504.369714	29.443958	54.121640	
1.00000	11.164247	126.391495	63.582624
504.940023	5.887796	11.973725	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.564572	-27.253508	-14.033894
-54.976071	-24.629191	-44.532602	
0.25000	-2.564572	-27.097807	-14.033894
-54.413701	-19.411961	-33.674260	
0.50000	-2.564572	-26.941349	-14.033894
-53.865223	-14.194903	-22.820418	
0.75000	-2.564572	-26.786332	-14.033894
-53.330466	-9.046250	-11.979388	
1.00000	-2.564572	-26.667325	-14.033894
-52.808938	-4.059363	-2.620202	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1357

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.755885	363.159190	73.023831
858.517891	118.325989	486.237107	
0.25000	12.755885	365.134398	73.023831
862.315197	91.201251	368.305942	
0.50000	12.755885	367.183678	73.023831
866.197420	64.097534	249.446607	
0.75000	12.755885	369.295138	73.023831
870.167487	37.016401	129.629466	
1.00000	12.755885	371.458722	73.023831
874.223744	11.343988	13.556268	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.124229	-51.578193	-51.561306
-144.058223	-80.421600	-71.397616	
0.25000	-9.124229	-50.280638	-51.561306
-140.061630	-61.272795	-54.447073	
0.50000	-9.124229	-48.976918	-51.561306
-136.164438	-42.149863	-37.486583	
0.75000	-9.124229	-47.685370	-51.561306
-132.361372	-23.165909	-21.105870	
1.00000	-9.124229	-46.795752	-51.561306
-128.656467	-6.061480	-9.358829	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.050508	626.169173	69.651343
722.322572	113.649093	830.904487	
0.25000	12.050508	639.835233	69.651343
719.421033	87.900668	635.293167	
0.50000	12.050508	654.014636	69.651343
716.546338	62.345733	433.274300	
0.75000	12.050508	668.629363	69.651343
713.706587	37.923495	224.621272	
1.00000	12.050508	683.592375	69.651343
710.910114	14.550499	12.794263	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.046822	-91.075550	-43.739150
-100.161608	-66.427911	-92.733333	
0.25000	-8.046822	-82.174577	-43.739150
-102.763122	-50.596236	-71.450368	
0.50000	-8.046822	-73.287319	-43.739150
-105.483716	-35.167330	-48.212048	
0.75000	-8.046822	-64.447924	-43.739150
-108.314994	-20.236638	-26.399107	
1.00000	-8.046822	-62.858201	-43.739150
-111.250765	-6.526436	-8.429732	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.912150	668.270198	74.483625
641.014727	119.138008	885.544709	
0.25000	12.912150	679.514142	74.483625
638.931807	91.706155	674.369539	
0.50000	12.912150	691.179404	74.483625
636.863746	64.776378	457.935406	
0.75000	12.912150	703.202847	74.483625
634.817817	38.836317	236.041208	
1.00000	12.912150	715.512870	74.483625
632.800300	16.002320	13.347162	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.848839	-90.777548	-42.231355
-366.244212	-61.721465	-98.515978	
0.25000	-7.848839	-83.453720	-42.231355
-368.097663	-46.574970	-74.681867	
0.50000	-7.848839	-76.141096	-42.231355
-370.040663	-31.859348	-50.882341	
0.75000	-7.848839	-68.867780	-42.231355
-372.068026	-18.256725	-27.439569	
1.00000	-7.848839	-67.514558	-42.231355
-374.174633	-7.124986	-8.589597	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1358

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.279869	315.797350	7.699606
296.608398	14.790277	406.011929	
0.25000	1.279869	323.307133	7.699606
306.111476	12.038553	308.863849	
0.50000	1.279869	331.093202	7.699606
315.824029	9.324666	208.180459	
0.75000	1.279869	339.126436	7.699606
325.751603	6.769215	103.847963	
1.00000	1.279869	347.352530	7.699606
335.883587	6.005683	1.269398	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.196250	-40.777151	-40.875982
-127.382135	-59.743794	-36.571879	
0.25000	-7.196250	-35.847056	-40.875982
-117.396903	-44.589093	-28.053527	
0.50000	-7.196250	-30.906779	-40.875982
-107.668147	-29.473637	-19.532888	
0.75000	-7.196250	-26.016177	-40.875982
-98.188088	-14.501211	-11.239909	
1.00000	-7.196250	-23.391146	-40.875982
-88.933220	-1.877239	-8.159430	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.721976	628.071288	22.473787
225.193343	37.493880	814.424737	
0.25000	3.721976	643.334845	22.473787
225.193343	29.608898	621.550216	
0.50000	3.721976	659.164161	22.473787
225.193343	21.953306	421.530981	
0.75000	3.721976	675.473974	22.473787
225.193343	15.032692	214.087957	
1.00000	3.721976	692.184410	22.473787
225.193343	10.534182	3.597206	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.287347	-76.849821	-33.515023
-175.040698	-46.270246	-64.882474	
0.25000	-6.287347	-66.929105	-33.515023
-175.040698	-34.126949	-49.128470	
0.50000	-6.287347	-56.975419	-33.515023
-175.040698	-22.473468	-33.364798	
0.75000	-6.287347	-47.098520	-33.515023
-175.040698	-11.923384	-17.851885	
1.00000	-6.287347	-44.993279	-33.515023
-175.040698	-3.265642	-6.804261	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.850032	685.256902	52.083699
579.844689	86.114568	901.557079	
0.25000	8.850032	699.191801	52.083699
580.021420	67.176747	687.350024	
0.50000	8.850032	713.641566	52.083699
580.183495	48.435675	466.530017	
0.75000	8.850032	728.535315	52.083699
580.329618	30.337140	239.018134	
1.00000	8.850032	743.784193	52.083699
580.458725	14.542283	9.094646	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.615785	-90.487128	-47.175454
-190.713823	-69.075151	-88.421168	
0.25000	-8.615785	-81.429314	-47.175454
-190.703072	-51.810526	-67.930865	
0.50000	-8.615785	-72.341268	-47.175454
-190.677662	-34.858129	-46.460932	
0.75000	-8.615785	-63.323215	-47.175454
-190.636300	-19.084242	-25.109345	
1.00000	-8.615785	-61.350137	-47.175454
-190.577922	-5.834449	-9.710787	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
1359

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.330437	666.998080	48.416148
501.435343	79.013976	880.207493	
0.25000	8.330437	678.784487	48.416148
501.435343	61.563828	669.266850	
0.50000	8.330437	691.007770	48.416148
501.435343	44.405837	452.807657	
0.75000	8.330437	703.606567	48.416148
501.435343	28.081493	230.649043	
1.00000	8.330437	716.505765	48.416148
501.435343	16.429276	8.530647	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.873030	-91.330039	-47.984675
-460.737264	-67.507688	-96.334800	
0.25000	-8.873030	-83.669335	-47.984675
-460.737264	-50.578222	-72.984555	
0.50000	-8.873030	-75.983171	-47.984675
-460.737264	-33.149910	-49.635145	
0.75000	-8.873030	-68.356302	-47.984675
-460.737264	-17.589931	-26.430360	
1.00000	-8.873030	-66.730650	-47.984675
-460.737264	-6.739180	-10.393972	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.759028	125.133074	3.405025
49.386022	4.536569	164.210041	
0.25000	0.759028	125.435987	3.405025
48.660630	3.763930	122.424971	
0.50000	0.759028	125.752530	3.405025
47.949639	3.111084	80.494667	
0.75000	0.759028	126.078671	3.405025
47.255415	2.648279	38.423971	
1.00000	0.759028	126.411516	3.405025
46.576674	6.940450	0.867566	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.798381	-24.679275	-20.275037

```
-509.871389  -25.273862  -37.812465
 0.25000     -3.798381  -24.483212  -20.275037
-510.554653  -18.036563  -28.427909
 0.50000     -3.798381  -24.286829  -20.275037
-511.256566  -10.916961  -19.040634
 0.75000     -3.798381  -24.155559  -20.275037
-511.975354   -4.074982   -9.654113
 1.00000     -3.798381  -24.154923  -20.275037
-512.712229   -3.087526   -4.951046

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   5.125637  370.534828   28.935473
150.206301  42.900609  484.436183
 0.25000   5.125637  373.268341   28.935473
144.696260  32.792301  365.021097
 0.50000   5.125637  376.120852   28.935473
139.297884  22.945570  244.343923
 0.75000   5.125637  379.060916   28.935473
134.015178  13.723858  122.346044
 1.00000   5.125637  382.063534   28.935473
128.866597  11.327969   4.851095

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.639088  -47.581227  -24.456071
-811.539723  -29.672016  -59.895572
 0.25000  -4.639088  -45.810876  -24.456071
-816.726331  -21.190200  -45.030238
 0.50000  -4.639088  -44.036382  -24.456071
-822.051954  -12.969984  -30.154186
 0.75000  -4.639088  -42.700556  -24.456071
-827.510085   -5.492402  -15.298449
 1.00000  -4.639088  -42.692040  -24.456071
-833.094515   -4.886679   -6.165188
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1360

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   3.665603  618.355218   21.156486
134.974224  33.324546  807.190814
 0.25000   3.665603  632.140518   21.156486
135.447292  26.343980  614.531664
 0.50000   3.665603  646.429039   21.156486
136.332920  19.686646  415.411933
 0.75000   3.665603  661.156845   21.156486
137.710458  13.928313  209.594320
 1.00000   3.665603  676.235857   21.156486
139.081840  14.785200   3.693041

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -6.499593  -87.768567  -33.510362
-670.688710  -41.839082  -83.216307
 0.25000  -6.499593  -78.805491  -33.510362
-669.344758  -29.987888  -62.734440
 0.50000  -6.499593  -69.817522  -33.510362
-668.074186  -18.459262  -42.279248
 0.75000  -6.499593  -60.887382  -33.510362
-666.868394   -8.252276  -21.854335
 1.00000  -6.499593  -58.648887  -33.510362
-665.719192   -5.476301   -8.216847

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   5.913770  660.930302   34.241092
428.889058  56.281999  865.519517
 0.25000   5.913770  672.264570   34.241092
429.221923  44.301276  656.777110
 0.50000   5.913770  684.013737   34.241092
429.569578  32.599116  442.750842
 0.75000   5.913770  696.124071   34.241092
429.930962  21.684698  223.231905
 1.00000   5.913770  708.523188   34.241092
430.433692  16.823310   6.054511

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.468214  -90.038586  -56.911190
-594.893875  -71.707766  -84.905884
 0.25000  -10.468214  -82.669619  -56.911190
-594.125412  -58.034705  -71.781187
 0.50000  -10.468214  -75.275755  -56.911190
-593.409607  -37.677240  -48.674438
 0.75000  -10.468214  -67.938559  -56.911190
-592.739217  -18.527045  -25.678027
 1.00000  -10.468214  -66.148106  -56.911190
-592.107187   -6.637886  -12.558794

 COMB      DB ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  10.453806  665.435133   60.489769
698.007478  93.788500  990.526167
 0.25000  10.453806  681.321329   60.489769
703.618233  71.783288  760.896806
 0.50000  10.453806  698.309883   60.489769
709.225764  49.940433  520.292602
 0.75000  10.453806  715.910930   60.489769
714.827005  28.215551  267.693067
 1.00000  10.453806  733.721082   60.489769
720.426621  10.268177  12.153675

 COMB      DB ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -9.740765  -66.163540  -51.073068
-673.307192  -70.132725  -72.241229
 0.25000  -9.740765  -57.998440  -51.073068
-680.765356  -52.618371  -54.548758
 0.50000  -9.740765  -49.560901  -51.073068
-688.281175  -35.104239  -36.856599
 0.75000  -9.740765  -47.575719  -51.073068
-695.827345  -17.750463  -19.166596
 1.00000  -9.740765  -47.575719  -51.073068
-703.384877   -3.892500  -11.892023
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1361

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  12.912150  685.256902   74.483625
858.517891  119.138008  901.557079
 0.25000  12.912150  699.191801   74.483625
862.315197   91.706155  687.305024
 0.50000  12.912150  713.641566   74.483625
866.197420   64.776378  466.530017
 0.75000  12.912150  728.535315   74.483625
870.167487   38.836317  239.018134
 1.00000  12.912150  743.784193   74.483625
874.223744  16.823310   13.556268

 COMB      DL ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.468214  -91.330039  -56.911190
-811.539723  -80.421600  -98.515978
 0.25000  -10.468214  -83.669335  -56.911190
-816.726331  -61.272795  -74.681867
 0.50000  -10.468214  -76.141096  -56.911190
-822.051954  -42.149863  -50.882341
 0.75000  -10.468214  -68.867780  -56.911190
-827.510085  -23.165909  -27.439569
 1.00000  -10.468214  -67.514558  -56.911190
-833.094515   -7.124986  -12.558794

 COMB      CAR ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  12.912150  685.256902   74.483625
858.517891  119.138008  990.526167
 0.25000  12.912150  699.191801   74.483625
862.315197   91.706155  760.896806
 0.50000  12.912150  713.641566   74.483625
866.197420   64.776378  520.292602
 0.75000  12.912150  728.535315   74.483625
870.167487   38.836317  267.293067
 1.00000  12.912150  743.784193   74.483625
874.223744  16.823310   13.556268

 COMB      CAR ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.468214  -91.330039  -56.911190
-811.539723  -80.421600  -98.515978
 0.25000  -10.468214  -83.669335  -56.911190
-816.726331  -61.272795  -74.681867
 0.50000  -10.468214  -76.141096  -56.911190
-822.051954  -42.149863  -50.882341
 0.75000  -10.468214  -68.867780  -56.911190
-827.510085  -23.165909  -27.439569
 1.00000  -10.468214  -67.514558  -56.911190
-833.094515   -7.124986  -12.558794

 COMB      DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  12.912150  685.256902   74.483625
858.517891  119.138008  990.526167
 0.25000  12.912150  699.191801   74.483625
862.315197   91.706155  760.896806
 0.50000  12.912150  713.641566   74.483625
866.197420   64.776378  520.292602
 0.75000  12.912150  728.535315   74.483625
870.167487   38.836317  267.293067
 1.00000  12.912150  743.784193   74.483625
874.223744  16.823310   13.556268

 COMB      DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.468214  -91.330039  -56.911190
-811.539723  -80.421600  -98.515978
 0.25000  -10.468214  -83.669335  -56.911190
-816.726331  -61.272795  -74.681867
 0.50000  -10.468214  -76.141096  -56.911190
-822.051954  -42.149863  -50.882341
 0.75000  -10.468214  -68.867780  -56.911190
-827.510085  -23.165909  -27.439569
 1.00000  -10.468214  -67.514558  -56.911190
-833.094515   -7.124986  -12.558794
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1362

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      107 ================== LENGTH
=    4.434986

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.320855  16.761093   1.677257
41.971651   0.812913   0.451198
 0.25000   0.320855  16.767794   1.677257
42.000704   1.567149  37.427200
 0.50000   0.320855  16.777992   1.677257
42.027452   2.592098  74.369900
 0.75000   0.320855  16.787717   1.677257
42.051877   3.623656  111.277777
 1.00000   0.320855  16.805659   1.677257
42.114163   4.663041  148.161230

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.264128  -33.370824  -0.940464
-219.629373  -0.674198  -0.094986
 0.25000  -0.264128  -33.352613  -0.940464
-219.592478  -1.210873  -18.677096
 0.50000  -0.264128  -33.336011  -0.940464
-219.556561  -3.067243  -37.274802
 0.75000  -0.264128  -33.320606  -0.940464
-219.534037  -4.926669  -55.844509
 1.00000  -0.264128  -33.306493  -0.940464
-219.514295   -6.786304  -74.428215

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.638792  31.537829   7.650422
64.074010   1.612922   0.827339
 0.25000   0.638792  31.544599   7.650422
64.103028   2.104657  92.485971
 0.50000   0.638792  31.554790   7.650422
64.129742   3.294517  184.110698
 0.75000   0.638792  31.564514   7.650422
64.154134   4.517508  275.702604
 1.00000   0.638792  31.582434   7.650422
64.216105   5.769805  367.266089

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.433154  -82.689593  -1.150805
-405.353203  -1.104652  -0.138087
 0.25000  -0.433154  -82.671385  -1.150805
-405.316349  -7.398280  -35.097196
 0.50000  -0.433154  -82.654785  -1.150805
-405.283468  -15.868629  -70.064659
 0.75000  -0.433154  -82.639382  -1.150805
-405.258129  -24.345160  -105.032121
 1.00000  -0.433154  -82.625271  -1.150805
-405.238412  -32.822216  -139.999583

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.913440  45.365465   7.557721
55.864348   2.315136   1.025694
 0.25000   0.913440  45.371563   7.557721
55.890471   2.558976  189.458790
 0.50000   0.913440  45.380738   7.557721
55.914521   3.471445  377.862069
 0.75000   0.913440  45.389488   7.557721
55.936482   4.423994  566.235810
 1.00000   0.913440  45.405622   7.557721
55.992327   5.400453  754.583970

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.477223  -169.970893  -1.054869
-506.898703  -1.216946  -0.127576
 0.25000  -0.477223  -169.954506  -1.054869
-506.865525  -6.831885  -50.394775
 0.50000  -0.477223  -169.939565  -1.054869
-506.835924  -15.205854  -100.693582
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1363

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000  -0.477223  -169.925702  -1.054869
-506.813078  -23.583879  -150.992390
 1.00000  -0.477223  -169.913001  -1.054869
-506.795327   -31.962041  -201.291197

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.058784  52.938173   6.478187
162.963661   2.696779   1.109962
 0.25000   1.058784  57.389964   6.478187
186.746178   6.576863  398.078823
 0.50000   1.058784  66.917714   6.478187
209.381379  11.290388  759.622020
 0.75000   1.058784  75.997192   6.478187
229.840151  16.058308  1089.563
 1.00000   1.058784  91.304732   6.478187
258.777179  20.851956  1392.164

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.615277  -375.535583  -4.466591
-541.083235  -1.567565  -0.399458
 0.25000  -0.615277  -358.124952  -4.466591
-512.170446  -6.153774  -58.713456
 0.50000  -0.615277  -342.135069  -4.466591
-492.732265  -13.035175  -117.409584
 0.75000  -0.615277  -327.302913  -4.466591
-474.495861  -20.031846  -176.105712
 1.00000  -0.615277  -313.720186  -4.466591
-466.070287  -27.199872  -234.801840

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.385325  18.024306   6.261324
16.522517   0.972745   0.415206
 0.25000   0.385325  18.098832   6.261324
16.841807   0.544007  83.133974
 0.50000   0.385325  18.210977   6.261324
17.135754   0.548649  165.449426
 0.75000   0.385325  18.317919   6.261324
17.404163   0.635249  247.403848
 1.00000   0.385325  18.515107   6.261324
18.086704   0.755643  329.045631

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.159285  -74.808218  -0.140345
-206.202994  -0.405069  -0.031989
 0.25000  -0.159285  -74.607923  -0.140345
-205.797483  -6.389960  -20.004118
 0.50000  -0.159285  -74.425315  -0.140345
-205.435695  -13.328620  -39.988519
 0.75000  -0.159285  -74.255879  -0.140345
-205.156459  -20.267277  -59.972920
 1.00000  -0.159285  -74.100646  -0.140345
-204.939505  -27.209088  -79.957322

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.751986  37.001135   5.913406
54.346904   1.912962   0.676056
 0.25000   0.751986  37.007910   5.913406
54.375931   3.043131  233.994888
 0.50000   0.751986  37.018105   5.913406
54.402653   4.862470  467.279337
 0.75000   0.751986  37.027827   5.913406
54.427054   6.725398  700.530966
 1.00000   0.751986  37.045753   5.913406
54.489103   8.612905  933.754172

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.294434  -210.455236  -1.893626
-338.757832  -0.749643  -0.121786
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1364

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000  -0.294434  -210.437028  -1.893626
-338.720967   -5.672234  -41.000040
 0.50000  -0.294434  -210.420427  -1.893626
-338.688077  -12.108122  -82.024924
 0.75000  -0.294434  -210.405024  -1.893626
-338.662692  -18.646669  -123.049808
 1.00000  -0.294434  -210.390912  -1.893626
-338.642969  -25.195316  -164.074693

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.950664  46.988282   8.132061
79.787367   2.413235   0.977036
 0.25000   0.950664  46.994379   8.132061
79.813491   3.671912  244.807586
 0.50000   0.950664  47.003555   8.132061
79.837541   5.832928  488.609012
 0.75000   0.950664  47.012304   8.132061
79.859502   8.047851  732.380900
 1.00000   0.950664  47.028438   8.132061
79.915346   10.287778  976.127209

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.464921  -219.935553  -2.193136
-485.047045  -1.184841  -0.177227
 0.25000  -0.464921  -219.919166  -2.193136
-485.013867  -7.470039  -52.141714
 0.50000  -0.464921  -219.904225  -2.193136
-484.984266  -16.675804  -104.239814
 0.75000  -0.464921  -219.890362  -2.193136
-484.961419  -25.676208  -156.337913
 1.00000  -0.464921  -219.877661  -2.193136
-484.943669  -34.685738  -208.436012

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.111308  54.658046   6.914243
247.839080   2.834139   0.962289
 0.25000   1.111308  57.525285   6.914243
247.839080   7.829815  511.729969
 0.50000   1.111308  72.127824   6.914243
259.724539  13.616739  966.052668
 0.75000   1.111308  86.030074   6.914243
286.144447  19.446273  1369.997
 1.00000   1.111308  106.448528  6.914243
308.752761  25.296890   1730.397

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.662500  -488.377888  -5.420802
-470.746888   -1.686930   -0.613152
 0.25000   -0.662500  -460.865429  -5.420802
-443.794145   -6.997444   -60.563524
 0.50000   -0.662500  -435.357929  -5.420802
-421.081314  -14.215929  -121.170059
 0.75000   -0.662500  -411.706141  -5.420802
-421.081314  -21.537238  -181.774808
 1.00000   -0.662500  -390.059122  -5.420802
-421.081314   -29.188813  -242.379557

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.510296  23.899843   0.277887
391.195500   1.315199   0.130907
 0.25000   0.510296  23.901182   0.277887
391.195500   7.633166  481.112691
 0.50000   0.510296  36.116833   0.277887
391.195500  14.066781  884.941819
 0.75000   0.510296  53.810959   0.277887
391.195500  20.500429  1219.571
 1.00000   0.510296  72.112530   0.277887
391.195500  26.934087   1494.546
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1365

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.469413  -471.642899  -5.802666
-37.524221   -1.193750   -0.966942
 0.25000  -0.469413  -434.443871  -5.802666
-37.524221   -0.934732   -26.375399
 0.50000  -0.469413  -399.375848  -5.802666
-37.524221   -0.689611   -52.880778
 0.75000  -0.469413  -366.877607  -5.802666
-37.524221   -0.782093   -79.386648
 1.00000  -0.469413  -337.181703  -5.802666
-37.524221   -1.049201  -105.886517

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.844193  41.266129   0.548960
472.541924   2.174020   0.323983
 0.25000   0.844193  41.267678   0.548960
472.541924  12.078215  671.681563
 0.50000   0.844193  59.407555   0.548960
472.541924  22.690249  1252.573
 0.75000   0.844193  80.572701   0.548960
472.541924  33.322541   1752.477
 1.00000   0.844193  105.173103  0.548960
472.541924  43.955130   2182.470

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.663814  -649.823977  -9.590380
-131.964051   -1.688286   -1.156782
 0.25000  -0.663814  -606.102264  -9.590380
-131.964051   -1.425980   -45.575756
 0.50000  -0.663814  -565.065919  -9.590380
-131.964051   -1.217369   -91.336998
 0.75000  -0.663814  -527.033577  -9.590380
-131.964051   -1.190199  -137.095321
 1.00000  -0.663814  -492.249148  -9.590380
-131.964051   -1.731974  -182.853644

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.094217  53.171403   3.391910
413.186405   2.804433   0.612261
 0.25000   1.094217  53.172819   3.391910
413.186405  10.332272  688.220798
 0.50000   1.094217  70.138872   3.391910
413.186405  18.435485   1293.009
 0.75000   1.094217  89.555943   3.391910
413.186405  26.577075  1823.669
 1.00000   1.094217  112.371674  3.391910
413.186405  34.734442   2290.330

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.679304  -660.731875  -7.524228
-279.151284   -1.728147   -1.029067
 0.25000  -0.679304  -620.695354  -7.524228
-279.151284   -3.709618   -58.794740
 0.50000  -0.679304  -583.134815  -7.524228
-279.151284   -6.804078  -117.755268
 0.75000  -0.679304  -548.323541  -7.524228
-279.151284   -9.999455  -176.713127
 1.00000  -0.679304  -516.462123  -7.524228
-279.151284  -13.709631  -235.670986

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.159661  56.139305   7.012894
366.384115   2.960791   0.826672
 0.25000   1.159661  56.140486   7.012894
366.384115   9.173744  608.435470
 0.50000   1.159661  70.296723   7.012894
366.384115  16.167728   1147.001
 0.75000   1.159661  86.485674   7.012894
366.384115  23.197928  1625.767
 1.00000   1.159661  105.516552  7.012894
366.384115  30.251094   2047.179
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1366

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.725047  -581.833654  -6.506882
-387.968157   -1.845398   -0.897411
 0.25000  -0.725047  -548.455656  -6.506882
-387.968157   -7.470039   -62.156941
 0.50000  -0.725047  -517.142421  -6.506882
-387.968157  -14.690118  -124.406971
 0.75000  -0.725047  -488.121167  -6.506882
-387.968157  -21.993765  -186.654775
 1.00000  -0.725047  -461.575704  -6.506882
-387.968157   -29.726518  -248.902579

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.520354  24.028740   1.816887
52.007055   1.322684   0.512978
 0.25000   0.520354  24.035090   1.816887
52.023771   2.189965   45.920130
 0.50000   0.520354  24.041615   1.816887
52.041132   3.680158   91.313827
 0.75000   0.520354  24.048458   1.816887
52.058871   5.191574  136.693383
 1.00000   0.520354  24.055442   1.816887
52.076680   6.709234  182.059887

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.345958  -44.788259  -1.375823
```

```
-256.998795   -0.883391   -0.131380
 0.25000   -0.345958  -44.777635   -1.375823
-256.981120   -2.078012  -25.253783
 0.50000   -0.345958  -44.767679   -1.375823
-256.965053   -4.055616  -50.380963
 0.75000   -0.345958  -44.758458   -1.375823
-256.950786   -6.056344  -75.508313
 1.00000   -0.345958  -44.750054   -1.375823
-256.938467   -8.062886 -100.635885

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    0.982231   44.825437    7.180578
78.033750    2.485573    0.926494
 0.25000    0.982231   44.831694    7.180578
78.050442    2.634552  105.596254
 0.50000    0.982231   44.838305    7.180578
78.067778    3.838505  210.257117
 0.75000    0.982231   44.845145    7.180578
78.085490    5.100243  314.901132
 1.00000    0.982231   44.852125    7.180578
78.103272    6.386524  419.534023

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.574126 -103.867934   -1.185266
-473.329073   -1.465036   -0.189458
 0.25000   -0.574126 -103.857311   -1.185266
-473.311427   -4.275788   -47.419620
 0.50000   -0.574126 -103.847356   -1.185266
-473.295386  -15.647218   -94.683052
 0.75000   -0.574126 -103.838136   -1.185266
-473.281144  -23.580517  -141.944788
 1.00000   -0.574126 -103.829733   -1.185266
-473.268848  -31.527007  -189.207911

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.316220   64.955503    7.064503
71.200283    3.341045   45.097068
 0.25000    1.316220   65.135683    7.064503
71.688815    3.136207  209.196228
 0.50000    1.316220   65.326083    7.064503
72.179913    4.213133  416.898450
 0.75000    1.316220   65.523032    7.064503
72.689850    5.546753  624.195981
 1.00000    1.316220   65.726080    7.064503
73.201778    6.914095  831.119062
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                      1367

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.665677  -208.288405   -1.299515
-576.446036   -1.697466   -0.174233
 0.25000   -0.665677  -207.982471   -1.299515
-575.938024   -7.309067   -67.988178
 0.50000   -0.665677  -207.695774   -1.299515
-575.476242  -14.965472  -135.852715
 0.75000   -0.665677  -207.430252   -1.299515
-575.066232  -22.703503  -203.717388
 1.00000   -0.665677  -207.188234   -1.299515
-574.712281  -30.471359  -271.589259

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.612324   74.848135    6.128390
184.527332    4.103894    1.154447
 0.25000    1.612324   83.932863    6.128390
206.246120    7.068725  365.939158
 0.50000    1.612324   93.330464    6.128390
228.830814   11.237861  709.553763
 0.75000    1.612324  103.157598    6.128390
251.838907   15.652264 1032.505
 1.00000    1.612324  113.171407    6.128390
274.844374   20.219390   1336.147

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.869467 -388.088885   -4.309461
-598.411153   -2.212721   -0.447517
 0.25000   -0.869467 -372.274981   -4.309461
-575.804610   -6.700105   -81.464585
 0.50000   -0.869467 -357.435403   -4.309461
-555.352374  -12.942383  -163.019400
 0.75000   -0.869467 -343.656281   -4.309461
-537.364534  -19.358301  -244.606810
 1.00000   -0.869467 -331.065635   -4.309461
-522.069957  -25.943847  -326.458694

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    0.521565   25.070947    5.571943
19.741732    1.316383    0.434058
 0.25000    0.521565   25.133518    5.571943
19.908644    0.682816   85.795273
 0.50000    0.521565   25.199637    5.571943
20.082005    0.762976  171.016218
 0.75000    0.521565   25.268030    5.571943
20.259131    1.922132  256.076338
 1.00000    0.521565   25.337836    5.571943
20.436951    1.108547  341.045310

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.228323   -85.504234   -0.203184
-233.100400   -0.581289   -0.043508
 0.25000   -0.228323   -85.398004   -0.203184
-232.923936   -5.789001   -26.708196
 0.50000   -0.228323   -85.298454   -0.203184
-232.763529  -11.598148   -53.414755
 0.75000   -0.228323   -85.206257   -0.203184
-232.621102  -18.042297   -80.120462
 1.00000   -0.228323   -85.122221   -0.203184
-232.498145   -24.202109  -106.829200

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.020862   51.975563    5.234469
54.564556    2.593122    0.666422
 0.25000    1.020862   51.981822    5.234469
54.581266    3.176668  233.419046
 0.50000    1.020862   51.988437    5.234469
54.598621    4.753398  466.230334
 0.75000    1.020862   51.995279    5.234469
54.616353    6.476920  699.025725
 1.00000    1.020862   52.002262    5.234469
54.634155    8.262939  931.809353
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                      1368

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.429729  -235.185063   -1.768014
-363.855546   -1.093617   -0.126054
 0.25000   -0.429729  -235.174439   -1.768014
-363.837878   -5.301968   -55.590049
 0.50000   -0.429729  -235.164483   -1.768014
-363.821818  -10.797360  -111.163774
 0.75000   -0.429729  -235.155263   -1.768014
-363.807557  -16.446646  -166.736174
 1.00000   -0.429729  -235.146859   -1.768014
-363.795244  -22.155572  -222.309575

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.352166   66.272915    7.553705
87.055674    3.430803    1.017283
 0.25000    1.352166   66.278548    7.553705
87.070713    4.041493  251.269050
 0.50000    1.352166   66.284501    7.553705
87.086332    5.989300  501.574218
 0.75000    1.352166   66.290659    7.553705
87.102291    8.089128  751.865558
 1.00000    1.352166   66.296944    7.553705
87.118313   10.249926    1002.146

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.649147  -251.937967   -2.095653
-539.241027   -1.654239   -0.205733
 0.25000   -0.649147  -251.928405   -2.095653
-539.225126   -7.877365   -70.433925
 0.50000   -0.649147  -251.919445   -2.095653
-539.210671  -15.948455  -140.755262
 0.75000   -0.649147  -251.911147   -2.095653
-539.197836  -24.175188  -211.077008
 1.00000   -0.649147  -251.903583   -2.095653
-539.186754  -32.458748  -281.399460

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.741372   76.689575    6.522468
270.483105    4.433494    1.044276
 0.25000    1.741372   87.568529    6.522468
274.898441    8.252756  451.257878
 0.50000    1.741372  101.664347    6.522468
292.935197   13.253167  868.815851
 0.75000    1.741372  116.228946    6.522468
321.340859   18.425737 1254.630
 1.00000    1.741372  130.971425    6.522468
348.440841   23.764480   1610.515

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.947207  -486.001448   -5.134618
-532.716745   -2.411218   -0.676347
 0.25000   -0.947207  -461.260834   -5.134618
-505.660741   -7.274947   -82.868009
 0.50000   -0.947207  -437.959118   -5.134618
-481.463147  -13.735811  -165.910794
 0.75000   -0.947207  -416.331106   -5.134618
-471.266768  -20.397470  -248.956488
 1.00000   -0.947207  -396.470741   -5.134618
-471.263660   -27.327244  -332.004983

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.014628   33.075012    0.496356
453.888985    2.595019    0.182215
 0.25000    1.014628   39.009139    0.496356
450.561829    7.745573  380.958154
 0.50000    1.014629   56.176665    0.496356
446.610662   13.028961  717.374132
 0.75000    1.014628   73.913949    0.496356
442.659496   18.455537   1015.360
 1.00000    1.014628   91.811898    0.496356
438.708329   24.020564   1272.425
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                      1369

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.685405  -427.980049   -5.358821
-490.883709   -1.745578   -1.093627
 0.25000   -0.685405  -394.535398   -5.358821
-50.529720   -1.259318   -34.081593
 0.50000   -0.685405  -362.903255   -5.358821
-50.529720   -0.994792   -68.382700
 0.75000   -0.685405  -333.405981   -5.358821
-50.529720   -1.032934  -102.674695
 1.00000   -0.685405  -306.236061   -5.358821
-50.529720   -1.203313  -136.970761

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.539232   57.263618    0.745006
531.968802    3.935922    0.371660
 0.25000    1.539232   66.212676    0.745006
531.537799   12.228938  546.514678
 0.50000    1.539232   86.251497    0.745006
531.100670   20.998856   1043.710
 0.75000    1.539232  106.957570    0.745006
530.663540   30.035449   1404.377
 1.00000    1.539232  127.862956    0.745006
530.226407   39.293080   1897.241

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.964307  -602.867348   -8.766903
-141.048157   -2.451709   -1.284087
 0.25000   -0.964307  -564.746091   -8.766903
-141.054283   -1.859993   -61.125658
 0.50000   -0.964307  -528.734266   -8.766903
-141.054283   -1.472642  -122.967702
 0.75000   -0.964307  -495.194004   -8.766903
-141.054283   -1.402418  -183.833572
 1.00000   -0.964307  -464.298185   -8.766903
-141.054283   -1.753003  -245.168505

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.795400   74.105359    3.337209
470.016879    4.582700    0.648057
 0.25000    1.795400   82.552336    3.337209
470.092421   10.657621   579.510358
 0.50000    1.795400  100.935557    3.337209
470.168531   17.553277   1113.528
 0.75000    1.795400  119.939420    3.337209
470.244642   24.717075   1603.668
 1.00000    1.795400  139.124071    3.337209
470.320754   32.096434   2052.548

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.000760  -630.421069   -7.127318
-303.153813   -2.545062   -1.137377
 0.25000   -1.000760  -595.547030   -7.127318
-303.153244   -4.132238   -78.118218
 0.50000   -1.000760  -562.606935   -7.127318
-303.153244   -6.679033  -156.444543
 0.75000   -1.000760  -531.931553   -7.127318
-303.153244   -9.510790  -234.772711
 1.00000   -1.000760  -503.677214   -7.127318
-303.153244  -12.734375  -313.082511

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.874976   78.502490    6.586894
418.703094    4.773865    0.895170
 0.25000    1.874976   85.552370    6.586894
418.781667    9.638808  523.067035
 0.50000    1.874976  100.881384    6.586894
418.860970   15.658024   1007.857
 0.75000    1.874976  116.721156    6.586894
418.940273   21.914733   1456.069
 1.00000    1.874976  132.715045    6.586894
419.019576   28.354761   1869.888
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                      1370

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.043047  -564.790766   -6.210498
-434.969869   -2.654295   -1.012578
 0.25000   -1.043047  -535.170560   -6.210498
-434.969139   -7.595332   -83.915495
 0.50000   -1.043047  -508.262584   -6.210498
-434.969139  -13.911955  -167.940161
 0.75000   -1.043047  -482.692543   -6.210498
-434.969139  -20.477225  -251.965682
 1.00000   -1.043047  -459.140692   -6.210498
-434.969139  -27.378939  -335.975778

COMB     DB ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.159661   56.139305    8.132061
472.541924    2.960791   1.709962
 0.25000    1.159661   57.525285    8.132061
472.541924   12.078215  688.220798
 0.50000    1.159661   72.127824    8.132061
472.541924   22.690249   1293.009
 0.75000    1.159661   89.555943    8.132061
472.541924   33.322541   1823.669
 1.00000    1.159661  112.171647    8.132061
472.541924   43.955130   2290.330

COMB     DB ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.725047  -660.731875   -9.590380
-541.083235   -1.845398   -1.156782
 0.25000   -0.725047  -620.695354   -9.590380
-512.170446   -7.793777   -62.156941
 0.50000   -0.725047  -583.134815   -9.590380
-506.835924  -16.675804  -124.406971
 0.75000   -0.725047  -548.323541   -9.590380
-506.813078  -25.676208  -186.654775
 1.00000   -0.725047  -516.482123   -9.590380
-506.795327   -34.685738  -248.902579

COMB     DL ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.874976   78.502490    7.553705
531.968802    4.773865    1.154447
 0.25000    1.874976   87.568529    7.553705
531.537799   12.228938  579.510358
 0.50000    1.874976  101.664347    7.553705
531.100670   20.998856   1113.528
 0.75000    1.874976  119.939420    7.553705
530.663540   30.035449   1603.668
 1.00000    1.874976  139.124071    7.553705
530.226407   39.293080   2052.548

COMB     DL ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.043047  -630.421069   -8.766903
-598.411153   -2.654295   -1.284087
 0.25000   -1.043047  -595.547030   -8.766903
-575.938024   -7.877365   -83.915495
 0.50000   -1.043047  -562.606935   -8.766903
-575.476242  -15.948455  -167.940161
 0.75000   -1.043047  -531.931553   -8.766903
-575.066232   -24.175188  -251.965682
 1.00000   -1.043047  -503.677214   -8.766903
-574.712281   -32.458748  -335.975778

COMB     CAR ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.874976   78.502490    8.132061
531.968802    4.773865    1.154447
 0.25000    1.874976   87.568529    8.132061
531.537799   12.228938  688.220798
 0.50000    1.874976  101.664347    8.132061
531.100670   22.690249   1293.009
 0.75000    1.874976  119.939420    8.132061
530.663540   33.322541   1823.669
 1.00000    1.874976  139.124071    8.132061
530.226407   43.955130   2290.330
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                      1371

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB     CAR ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.043047  -660.731875   -9.590380
-598.411153   -2.654295   -1.284087
 0.25000   -1.043047  -620.695354   -9.590380
-575.938024   -7.877365   -83.915495
 0.50000   -1.043047  -583.134815   -9.590380
-575.476242  -16.675804  -167.940161
 0.75000   -1.043047  -548.323541   -9.590380
-575.066232   -25.676208  -251.965682
 1.00000   -1.043047  -516.482123   -9.590380
-574.712281   -34.685738  -335.975778

COMB  DESIGN ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.874976   78.502490    8.132061
531.968802    4.773865    1.154447
 0.25000    1.874976   87.568529    8.132061
531.537799   12.228938  688.220798
 0.50000    1.874976  101.664347    8.132061
531.100670   22.690249   1293.009
 0.75000    1.874976  119.939420    8.132061
530.663540   33.322541   1823.669
 1.00000    1.874976  139.124071    8.132061
530.226407   43.955130   2290.330

COMB  DESIGN ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.043047  -660.731875   -9.590380
-598.411153   -2.654295   -1.284087
 0.25000   -1.043047  -620.695354   -9.590380
-575.938024   -7.877365   -83.915495
 0.50000   -1.043047  -583.134815   -9.590380
-575.476242  -16.675804  -167.940161
 0.75000   -1.043047  -548.323541   -9.590380
-575.066232   -25.676208  -251.965682
 1.00000   -1.043047  -516.482123   -9.590380
-574.712281   -34.685738  -335.975778

 ELEM      108 ================== LENGTH =    4.927966

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    0.723245   20.153214    4.316661
54.113961    5.274503  149.181832
 0.25000    0.723245   20.169086    4.316661
54.147667    4.300863  205.124391
 0.50000    0.723245   20.185282    4.316661
54.181639    4.752121  261.095571
 0.75000    0.723245   20.201336    4.316661
54.217254    5.203379  317.051465
 1.00000    0.723245   20.219444    4.316661
54.264324    5.654718  373.006252

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.606385  -45.591641   -0.367071
-242.895268   -6.033413   -74.639355
 0.25000   -0.606385  -45.573444   -0.367071
-242.855675  -10.906460   -99.388185
 0.50000   -0.606385  -45.557423   -0.367071
-242.822023  -15.952178  -124.181745
 0.75000   -0.606385  -45.542459   -0.367071
-242.797728  -21.086737  -148.975312
 1.00000   -0.606385  -45.528694   -0.367071
-242.777240  -26.267369  -173.768887

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    1.436994   36.538809    8.278219
83.241494    6.748826  369.118175
 0.25000    1.436994   36.554681    8.278219
83.275155    5.378516  490.216282
 0.50000    1.436994   36.570874    8.278219
83.309084    4.492040  612.714132
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                      1372

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
          T          M2          M3
 0.75000    1.436994   36.586924    8.278219
83.344701    3.872213  735.989922
 1.00000    1.436994   36.605026    8.278219
83.391649    3.420489  859.473740

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.994152  -100.911361   -0.203827
-443.190418   -31.562161  -140.300722
 0.25000   -0.994152  -100.893201   -0.203827
-443.150883   -40.001680  -185.163201
 0.50000   -0.994152  -100.877185   -0.203827
-443.117276   -48.723436  -230.073488
 0.75000   -0.994152  -100.862224   -0.203827
-443.093201   -57.687522  -274.983782
 1.00000   -0.994152  -100.848463   -0.203827
-443.072745   -66.890811  -319.896206

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    2.038226   49.738575    7.938383
72.403967    7.206739  756.825359
 0.25000    2.038226   49.752860    7.938383
72.434272    5.803496  965.348276
 0.50000    2.038226   49.767434    7.938383
72.464818    4.861996   1177.192
 0.75000    2.038226   49.781860    7.938383
72.496873    4.185741   1392.043
 1.00000    2.038226   49.798173    7.938383
72.539154    3.677966   1608.300

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.085911  -177.230214   -0.182853
-548.082178   -30.198320  -201.534183
 0.25000   -1.085911  -177.213841   -0.182853
-548.046583   -38.108443  -262.726707
 0.50000   -1.085911  -177.199425   -0.182853
-548.016327   -46.440882  -323.962414
 0.75000   -1.085911  -177.185960   -0.182853
-547.994610   -54.998465  -385.198127
 1.00000   -1.085911  -177.173574   -0.182853
-547.976192   -63.884060  -446.435292

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    2.340786   70.111036    6.761194
205.962664   22.770806   1393.975
 0.25000    2.340786   85.442394    6.761194
229.851467   24.787535   1710.143
 0.50000    2.340786  100.811894    6.761194
252.097616   27.200676   2008.011
 0.75000    2.340786  116.053603    6.761194
280.892410   29.883026   2286.952
 1.00000    2.340786  133.050016    6.761194
314.879435   32.728023   2545.280

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -1.398127  -340.550930   -2.944824
-563.163985   -25.993507   -344.888158
 0.25000   -1.398127  -323.601124   -2.944824
-537.501272   -32.517552  -302.863214
 0.50000   -1.398127  -308.417547   -2.944824
-518.803644   -39.431807  -370.875847
 0.75000   -1.398127  -294.243683   -2.944824
-504.459887   -46.609413  -438.897339
 1.00000   -1.398127  -281.223723   -2.944824
-504.459887   -54.150687  -506.923164

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
 0.00000    0.859769   19.331187    3.804187
21.533283    1.187697  329.937960
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING                LOAD                >
                                      1373

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
          T          M2          M3
 0.25000    0.859769   19.505780    3.804187
21.903677    1.077728  419.866490
 0.50000    0.859769   19.683907    3.804187
22.277011    1.059619  510.787961
 0.75000    0.859769   19.860472    3.804187
22.668797    1.108174  602.502153
 1.00000    0.859769   20.059605    3.804187
23.185559    1.156857  694.486315

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
 0.00000   -0.365400   -76.941328   -0.106312
```

```
-220.157079  -26.571197  -80.015620
 0.25000     -0.365400  -76.741216     -0.106312
-219.722032  -29.850923 -103.641160
 0.50000     -0.365400  -76.565025     -0.106312
-219.352235  -33.283947 -127.266709
 0.75000     -0.365400  -76.400448     -0.106312
-219.086806  -36.779797 -150.892332
 1.00000     -0.365400  -76.249067     -0.106312
-218.861697  -40.535952 -174.519792

 COMB DB-G2-2 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     1.661395   38.742140    3.641209
80.051789    9.872861  935.057076
 0.25000     1.661395   38.758012    3.641209
80.085461   10.809306  1132.369
 0.50000     1.661395   38.772265    3.641209
80.119401   11.797107  1346.652
 0.75000     1.661395   38.790257    3.641209
80.155018   12.824396  1573.422
 1.00000     1.661395   38.808360    3.641209
80.201996   13.857715  1805.309

 COMB DB-G2-2 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -0.662134 -193.212980   -1.071971
-356.482278  -24.125956 -164.056607
 0.25000    -0.662134 -193.194788   -1.071971
-356.442729  -27.201029 -210.161097
 0.50000    -0.662134 -193.178770   -1.071971
-356.409111  -30.506323 -256.267776
 0.75000    -0.662134 -193.163809   -1.071971
-356.384981  -33.878046 -302.374462
 1.00000    -0.662134 -193.150047   -1.071971
-356.364516  -37.568971 -348.482807

 COMB DB-G2-3 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.112998   51.001421    6.944132
111.950469   11.663044  978.134900
 0.25000     2.112998   51.015706    6.944132
111.980774   11.958451  1204.914
 0.50000     2.112998   51.030280    6.944132
112.011320   12.335990  1447.117
 0.75000     2.112998   51.044726    6.944132
112.043375   12.904810  1700.543
 1.00000     2.112998   51.061019    6.944132
112.085655   13.736625  1958.511

 COMB DB-G2-3 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.054845 -213.944744   -0.995938
-519.026213  -33.199026 -208.570391
 0.25000    -1.054845 -213.928371   -0.995938
-518.990619  -39.606609 -269.899265
 0.50000    -1.054845 -213.913956   -0.995938
-518.960363  -46.549060 -331.253682
 0.75000    -1.054845 -213.900400   -0.995938
-518.938646  -53.786342 -392.608104
 1.00000    -1.054845 -213.888105   -0.995938
-518.920228  -61.413199 -453.963703
Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11~S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1374

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.442917   81.030405    5.913888
288.117078   27.401092  1731.579
 0.25000     2.442917   104.999080   5.913888
290.465344   31.445270  2103.749
 0.50000     2.442917   129.051332   5.913888
317.140248   35.808197  2438.703
 0.75000     2.442917   152.917963   5.913888
340.963998   40.437252  2738.055
 1.00000     2.442917   179.131657   5.913888
361.800985   45.367054  3003.079

 COMB DB-G2-4 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.504141 -420.964883   -4.430323
-471.183921  -48.441954 -242.350661
 0.25000    -1.504141 -395.095897   -4.430323
-456.280640  -33.568630 -310.499506
 0.50000    -1.504141 -371.373708   -4.430323
-456.280640  -39.134577 -378.669278
 0.75000    -1.504141 -349.247537   -4.430323
-456.280640  -44.954175 -446.857918
 1.00000    -1.504141 -328.958708   -4.430323
-456.280640  -51.228716 -515.048481

 COMB DB-G3-1 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     1.082390   61.966650    0.281865
442.540387   28.121636  1493.226
 0.25000     1.082390   93.715166    0.281865
442.540387   34.773078  1757.082
 0.50000     1.082390   125.648325   0.281865
442.540387   41.835311  1958.950
 0.75000     1.082390   157.366937   0.281865
442.540387   49.760277  2104.312
 1.00000     1.082390   191.208683   0.281865
442.540387   56.452781  2201.222

 COMB DB-G3-1 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.067354 -356.380537   -6.226259
-47.495756   -1.610487 -105.654998
 0.25000    -1.067354 -323.663517   -6.226259
-47.495756   -1.305504 -131.721147
 0.50000    -1.067354 -292.269123   -6.226259
-47.495756   -1.044634 -157.785921
 0.75000    -1.067354 -263.030248   -6.226259
-47.495756   -1.352016 -183.890977
 1.00000    -1.067354 -236.324790   -6.226259
-47.495756   -1.459725 -209.986035

 COMB DB-G3-2 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     1.809590   84.630356    0.494853
553.039111   45.322966  2181.205
 0.25000     1.809590   122.184887   0.494853
553.039111   54.706794  2562.890
 0.50000     1.809590   159.919655   0.494853
553.039111   64.437575  2889.647
 0.75000     1.809590   197.393701   0.494853
553.039111   74.426926  3160.863
 1.00000     1.809590   237.710569   0.494853
553.039111   84.461894  3378.606

 COMB DB-G3-2 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.506206 -506.346860   -8.541023
-144.305155  -2.733927 -182.523275
 0.25000    -1.506206 -467.142035   -8.541023
-144.305155  -2.544236 -228.659648
 0.50000    -1.506206 -430.007053   -8.541023
-144.305155  -2.402156 -274.805536
 0.75000    -1.506206 -395.409626   -8.541023
-144.305155  -2.263021 -320.977845
 1.00000    -1.506206 -363.759887   -8.541023
-144.305155  -2.143888 -367.150221

Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11~S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1375

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.370135   92.900918    2.226714
476.828391   36.972005  2289.894
 0.25000     2.370135   127.312529   2.226714
476.828391   44.515155  2724.246
 0.50000     2.370135   161.885731   2.226714
476.828391   52.409582  3104.818
 0.75000     2.370135   196.219383   2.226714
476.828391   60.583196  3434.169
 1.00000     2.370135   233.187735   2.226714
476.828391   68.790087  3714.722

 COMB DB-G3-3 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.536642 -529.587794   -7.151799
-300.944795  -13.784372 -235.391353
 0.25000    -1.536642 -493.616918   -7.151799
-300.944795  -15.042313 -297.335162
 0.50000    -1.536642 -459.589806   -7.151799
-300.944795  -16.521934 -359.286766
 0.75000    -1.536642 -427.886749   -7.151799
-300.944795  -18.078528 -421.262806
 1.00000    -1.536642 -398.880115   -7.151799
-300.944795  -19.799178 -483.238955

 COMB DB-G3-4 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.533573   90.987638    5.174673
425.875833   32.477509  2047.528
 0.25000     2.533573   119.676960   5.174673
425.875833   38.384599  2456.468
 0.50000     2.533573   148.500883   5.174673
425.875833   44.707933  2820.589
 0.75000     2.533573   177.125070   5.174673
425.875833   51.439689  3142.134
 1.00000     2.533573   207.946825   5.174673
425.875833   58.231204  3423.102

 COMB DB-G3-4 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.645562 -479.789159   -5.990623
-420.079943  -29.480131 -248.774861
 0.25000    -1.645562 -449.798293   -5.990623
-420.079943  -33.258721 -317.091497
 0.50000    -1.645562 -421.429535   -5.990623
-420.079943  -37.675148 -385.424283
 0.75000    -1.645562 -394.953227   -5.990623
-420.079943  -42.339752 -453.777448
 1.00000    -1.645562 -370.815004   -5.990623
-420.079943  -47.346750 -522.131772

 COMB DL-G1-1 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     1.183011   28.458816    4.325618
67.584162    7.496646  183.196806
 0.25000     1.183011   28.465502    4.325618
67.600999    6.957770  250.972649
 0.50000     1.183011   28.472661    4.325618
67.619049    6.794827  318.882666
 0.75000     1.183011   28.480197    4.325618
67.637905    6.827268  386.682333
 1.00000     1.183011   28.487897    4.325618
67.657146    6.969967  454.518915

 COMB DL-G1-1 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -0.792730  -60.329782   -0.346863
-289.123592   -8.153935 -100.909374
 0.25000    -0.792730  -60.319942   -0.346863
-289.106161   -2.280212 -133.708429
 0.50000    -0.792730  -60.310686   -0.346863
-289.089978  -16.887419 -166.526294
 0.75000    -0.792730  -60.302084   -0.346863
-289.075409  -21.706784 -199.342731
 1.00000    -0.792730  -60.294255   -0.346863
-289.062753  -26.716643 -232.160583
Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11~S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1376

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.229555   51.444987    8.341128
101.769564   7.948559  421.588017
 0.25000     2.229555   51.451648    8.341128
101.786376   6.461451  565.636649
 0.50000     2.229555   51.458804    8.341128
101.804399   5.634074  710.173493
 0.75000     2.229555   51.466338    8.341128
101.823227   5.412517  854.961995
 1.00000     2.229555   51.474034    8.341128
101.842438   5.340048  999.817883

 COMB DL-G1-2 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.313709 -129.391963   -0.262238
-528.006125  -31.310799 -189.555924
 0.25000    -1.313709 -129.382126   -0.262238
-527.988730  -39.431410 -247.493684
 0.50000    -1.313709 -129.372873   -0.262238
-527.972581  -49.101181 -305.431273
 0.75000    -1.313709 -129.364274   -0.262238
-527.958043  -57.312368 -365.430227
 1.00000    -1.313709 -129.356447   -0.262238
-527.945416  -66.900785 -424.423495

 COMB DL-G1-3 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.961669   70.966275    7.803954
91.360616    8.758385  833.512740
 0.25000     2.961669   71.158678    7.803954
91.844616    7.437494  1073.776
 0.50000     2.961669   71.364757    7.803954
92.363491    6.677951  1315.305
 0.75000     2.961669   71.581696    7.803954
92.905518    6.328575  1556.468
 1.00000     2.961669   71.803331    7.803954
93.458589    6.317500  1797.881

 COMB DL-G1-3 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.513612 -219.213506   -0.338867
-629.551073  -29.941191 -271.892913
 0.25000    -1.513612 -218.932225   -0.338867
-629.050367  -37.420707 -352.642288
 0.50000    -1.513612 -218.663744   -0.338867
-628.585500  -45.480251 -434.093324
 0.75000    -1.513612 -218.416106   -0.338867
-628.167029  -53.993980 -515.580886
 1.00000    -1.513612 -218.190706   -0.338867
-627.803582  -62.863186 -597.067420

 COMB DL-G1-4 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     3.589357  100.143457    6.689683
225.028014   22.872426  1337.753
 0.25000     3.589357   109.854704   6.689683
246.745796   24.840320  1668.160
 0.50000     3.589357   120.253870   6.689683
270.039190   27.371026  1984.618
 0.75000     3.589357   131.191734   6.689683
294.437885   30.369285  2282.563
 1.00000     3.589357   142.353986   6.689683
319.254490   33.679478  2560.914

 COMB DL-G1-4 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.974701 -351.318775   -3.170223
-638.529322  -26.015308 -326.712378
 0.25000    -1.974701 -336.936115   -3.170223
-617.349593  -32.191064 -414.059619
 0.50000    -1.974701 -323.378021   -3.170223
-597.713162  -38.862695 -502.030126
 0.75000    -1.974701 -310.769819   -3.170223
-580.182448  -45.971383 -590.001395
 1.00000    -1.974701 -299.268881   -3.170223
-572.705675  -53.430547 -677.956229
Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11~S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1377

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     1.175292   26.735532    3.718556
26.048845    1.634204  242.063810
 0.25000     1.175292   26.802345    3.718556
26.216964    1.481492  441.801296
 0.50000     1.175292   26.873907    3.718556
26.397197    1.431644  542.132500
 0.75000     1.175292   26.949240    3.718556
26.585471    1.430696  642.323579
 1.00000     1.175292   27.026204    3.718556
26.777583    1.469447  742.408104

 COMB DL-G2-1 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -0.519650  -90.902542   -0.127815
-253.299461  -23.756560 -106.852883
 0.25000    -0.519650  -90.804173   -0.127815
-253.125515  -27.203753 -136.218152
 0.50000    -0.519650  -90.711638   -0.127815
-252.964019  -30.858077 -166.271705
 0.75000    -0.519650  -90.625641   -0.127815
-252.818639  -34.827829 -196.527371
 1.00000    -0.519650  -90.547378   -0.127815
-252.692370  -39.100288 -227.223404

 COMB DL-G2-2 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.265714   58.258506    3.427877
69.117219    9.724680  933.074006
 0.25000     2.265714   58.265191    3.427877
69.134050   10.688294  1148.991
 0.50000     2.265714   58.272349    3.427877
69.152294   11.741439  1376.507
 0.75000     2.265714   58.279885    3.427877
69.170942   12.845033  1608.494
 1.00000     2.265714   58.287583    3.427877
69.190176   14.006359  1841.976

 COMB DL-G2-2 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -0.969340 -216.037143   -1.170839
-387.088394  -21.588235 -222.359027
 0.25000    -0.969340 -216.027304   -1.170839
-387.070973  -24.725126 -281.672872
 0.50000    -0.969340 -216.018048   -1.170839
-387.054798  -28.031106 -341.737068
 0.75000    -0.969340 -216.009447   -1.170839
-387.040237  -31.559814 -401.770846
 1.00000    -0.969340 -216.001619   -1.170839
-387.027588  -35.360582 -461.809051

 COMB DL-G2-3 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     3.024761   75.149046    6.892721
111.629391   12.299708  1004.213
 0.25000     3.024761   75.155063    6.892721
111.644539   12.440150  1258.021
 0.50000     3.024761   75.161505    6.892721
111.660778   12.936261  1522.248
 0.75000     3.024761   75.168287    6.892721
111.677742   13.621943  1790.520
 1.00000     3.024761   75.175216    6.892721
111.695052   14.443266  2060.226

 COMB DL-G2-3 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.473342 -247.349515   -1.097111
-585.593621  -31.308540 -281.508958
 0.25000    -1.473342 -247.340659   -1.097111
-585.577942  -38.601292 -361.398745
 0.50000    -1.473342 -247.332329   -1.097111
-585.563385  -45.760313 -441.657568
 0.75000    -1.473342 -247.324589   -1.097111
-585.550280  -53.328904 -521.881813
 1.00000    -1.473342 -247.317543   -1.097111
-585.538896  -61.215767 -602.114262
Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11~S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1378

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     3.857985  112.430179    5.918552
308.724486   26.910928  1611.367
 0.25000     3.857985   127.088599   5.918552
318.695552   30.858904  1988.421
 0.50000     3.857985   142.780689   5.918552
347.386040   35.303498  2339.060
 0.75000     3.857985   159.269564   5.918552
376.403656   39.980055  2659.259
 1.00000     3.857985   176.056702   5.918552
403.736511   44.799854  2949.351

 COMB DL-G2-4 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -2.148690 -415.180837   -4.579330
-550.238179  -27.660940 -332.095477
 0.25000    -2.148690 -393.286736   -4.579330
-527.802185  -32.979308 -420.117316
 0.50000    -2.148690 -372.560208   -4.579330
-517.827348  -38.703054 -508.239443
 0.75000    -2.148690 -353.270688   -4.579330
-517.826035  -44.778814 -596.330982
 1.00000    -2.148690 -335.634221   -4.579330
-517.819600  -51.206931 -684.388197

 COMB DL-G3-1 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.203028   77.675172    0.352242
498.623753   26.269607  1270.652
 0.25000     2.203028   96.181373    0.352242
494.233420   32.895936  1512.854
 0.50000     2.203028   116.003179   0.352242
489.843054   39.637026  1712.722
 0.75000     2.203028   136.784148   0.352242
485.452689   46.557421  1870.376
 1.00000     2.203028   157.843710   0.352242
481.062323   53.487687  1987.929

 COMB DL-G3-1 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.555064 -307.560230   -6.180428
-58.511313   -2.200341 -136.658327
 0.25000    -1.555064 -279.388501   -6.180428
-58.511313   -1.979766 -170.624032
 0.50000    -1.555064 -252.593304   -6.180428
-58.511313   -1.804169 -205.480136
 0.75000    -1.555064 -227.533064   -6.180428
-58.511313   -1.633262 -239.685480
 1.00000    -1.555064 -204.546083   -6.180428
-58.511313   -1.484221 -273.866107

 COMB DL-G3-2 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     3.345709  113.849751    0.588548
593.722891   42.285437  1895.380
 0.25000     3.345709   135.281975   0.588548
593.237175   51.718937  2251.044
 0.50000     3.345709   158.214607   0.588548
592.751456   61.327521  2572.416
 0.75000     3.345709   182.273746   0.588548
592.265736   71.141391  2851.489
 1.00000     3.345709   206.683781   0.588548
591.780017   81.009697  3085.174

 COMB DL-G3-2 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -2.186021 -448.549806   -8.660300
-160.645878  -3.322647 -244.843160
 0.25000    -2.186021 -416.105393   -8.660300
-160.645878  -3.033859 -304.105984
 0.50000    -2.186021 -385.263949   -8.660300
-160.645878  -2.798801 -364.458334
 0.75000    -2.186021 -356.449609   -8.660300
-160.645878  -2.598080 -424.028406
 1.00000    -2.186021 -330.032252   -8.660300
-160.645878  -2.455936 -483.353122
Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11~S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1379

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     3.928432  124.984951    2.163599
524.553846   35.481729  2051.660
 0.25000     3.928432   144.630817   2.163599
524.638416   43.095154  2470.157
 0.50000     3.928432   165.651042   2.163599
524.722987   50.918068  2855.098
 0.75000     3.928432   187.705094   2.163599
524.807558   58.961555  3200.312
 1.00000     3.928432   210.083905   2.163599
524.892129   67.062514  3504.406

 COMB DL-G3-3 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -2.264406 -490.573000   -7.295050
-329.755068  -13.659951 -312.803355
 0.25000    -2.264406 -460.849932   -7.295050
-329.755068  -14.835327 -393.254443
 0.50000    -2.264406 -432.599785   -7.295050
-329.755068  -16.194031 -474.660862
 0.75000    -2.264406 -406.209921   -7.295050
-329.755068  -17.706110 -555.367399
 1.00000    -2.264406 -382.016880   -7.295050
-329.755068  -19.392977 -636.035297

 COMB DL-G3-4 ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     4.134793  123.171434    5.257747
472.472627   31.722316  1869.941
 0.25000     4.134793   139.549090   5.257747
472.560744   37.679599  2274.643
 0.50000     4.134793   157.072440   5.257747
472.648862   43.957080  2651.450
 0.75000     4.134793   175.457674   5.257747
472.736980   50.486471  2995.059
 1.00000     4.134793   194.113744   5.257747
472.825098   57.153783  3304.452

 COMB DL-G3-4 ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -2.365404 -458.720706   -6.126997
-477.948333  -28.082153 -335.089375
 0.25000    -2.365404 -433.942821   -6.126997
-477.948333  -32.395140 -426.252908
 0.50000    -2.365404 -410.392946   -6.126997
-477.948333  -37.176355 -517.801336
 0.75000    -2.365404 -388.401861   -6.126997
-477.948333  -42.254383 -608.789395
 1.00000    -2.365404 -368.226321   -6.126997
-477.948333  -47.622326 -699.742595

 COMB      DB ------------------- MAX

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000     2.533573   92.900918    8.278219
553.039111   45.322966  2289.894
 0.25000     2.533573   127.312529   8.278219
553.039111   54.706794  2724.246
 0.50000     2.533573   161.885731   8.278219
553.039111   64.437575  3104.818
 0.75000     2.533573   197.393701   8.278219
553.039111   74.426926  3434.169
 1.00000     2.533573   237.710569   8.278219
553.039111   84.461894  3714.722

 COMB      DB ------------------- MIN

 REL DIST        P          V2          V3
      T          M2         M3
 0.00000    -1.645562 -529.587794   -8.541023
-563.163985  -33.199026 -248.774861
 0.25000    -1.645562 -493.616918   -8.541023
-548.046583  -40.001680 -317.091497
 0.50000    -1.645562 -459.589806   -8.541023
-548.016327  -48.723436 -385.424283
 0.75000    -1.645562 -427.886749   -8.541023
-547.994610  -57.687522 -453.777448
 1.00000    -1.645562 -398.880115   -8.541023
-547.976192  -66.890811 -522.131772
Program  SAP2000  Nonlinear  Version  7.42
          File:하행S11~S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1380

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S
```

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.134793	124.984951	8.341128
593.722891	42.285437	2051.660	
0.25000	4.134793	144.630817	8.341128
593.237175	51.718937	2470.157	
0.50000	4.134793	165.651042	8.341128
592.751456	61.327521	2855.098	
0.75000	4.134793	187.705094	8.341128
592.265736	71.141391	3200.312	
1.00000	4.134793	210.083905	8.341128
591.780017	81.009697	3504.406	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.365404	-490.573000	-8.660300
-638.529322	-31.908540	-335.889375	
0.25000	-2.365404	-460.849932	-8.660300
-629.050367	-39.431410	-426.252908	
0.50000	-2.365404	-432.599785	-8.660300
-628.585500	-48.101181	-517.801336	
0.75000	-2.365404	-406.209921	-8.660300
-628.167029	-57.312368	-608.789395	
1.00000	-2.365404	-382.016880	-8.660300
-627.803582	-66.900785	-699.742595	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.134793	124.984951	8.341128
593.722891	45.322966	2289.894	
0.25000	4.134793	144.630817	8.341128
593.237175	54.706794	2724.246	
0.50000	4.134793	165.651042	8.341128
592.751456	64.437575	3104.818	
0.75000	4.134793	197.393701	8.341128
592.265736	74.426926	3434.169	
1.00000	4.134793	237.710569	8.341128
591.780017	84.461894	3714.722	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.365404	-529.587794	-8.660300
-638.529322	-33.199026	-335.889375	
0.25000	-2.365404	-493.616918	-8.660300
-629.050367	-40.001680	-426.252908	
0.50000	-2.365404	-459.589806	-8.660300
-628.585500	-48.723436	-517.801336	
0.75000	-2.365404	-427.886749	-8.660300
-628.167029	-57.687522	-608.789395	
1.00000	-2.365404	-398.880115	-8.660300
-627.803582	-66.900785	-699.742595	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.134793	124.984951	8.341128
593.722891	45.322966	2289.894	
0.25000	4.134793	144.630817	8.341128
593.237175	54.706794	2724.246	
0.50000	4.134793	165.651042	8.341128
592.751456	64.437575	3104.818	
0.75000	4.134793	197.393701	8.341128
592.265736	74.426926	3434.169	
1.00000	4.134793	237.710569	8.341128
591.780017	84.461894	3714.722	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.365404	-529.587794	-8.660300
-638.529322	-33.199026	-335.889375	
0.25000	-2.365404	-493.616918	-8.660300
-629.050367	-40.001680	-426.252908	
0.50000	-2.365404	-459.589806	-8.660300
-628.585500	-48.723436	-517.801336	
0.75000	-2.365404	-427.886749	-8.660300
-628.167029	-57.687522	-608.789395	
1.00000	-2.365404	-398.880115	-8.660300
-627.803582	-66.900785	-699.742595	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1381

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 109 ========== LENGTH = 4.928916

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.062328	20.219546	5.097138
52.629887	5.636841	374.086644	
0.25000	1.062328	20.233993	5.097138
52.659247	5.238847	416.133895	
0.50000	1.062328	20.248991	5.097138
52.690671	4.841513	458.242988	
0.75000	1.062328	20.264358	5.097138
52.723670	4.445353	500.386026	
1.00000	1.062328	20.281293	5.097138
52.762706	4.049866	542.589124	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.948751	-34.852566	-0.558486
-178.861382	-25.600550	-174.041854	
0.25000	-0.948751	-34.835882	-0.558486
-178.824244	-30.342482	-198.873052	
0.50000	-0.948751	-34.821103	-0.558486
-178.792435	-35.430271	-223.704251	
0.75000	-0.948751	-34.807088	-0.558486
-178.762146	-40.745001	-248.535449	
1.00000	-0.948751	-34.794028	-0.558486
-178.740054	-46.291506	-273.368754	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.081874	37.114706	7.647107
82.181488	4.111805	861.393105	
0.25000	2.081874	37.129148	7.647107
82.210800	3.619707	945.418107	
0.50000	2.081874	37.144142	7.647107
82.242177	3.131232	1030.015	
0.75000	2.081874	37.159505	7.647107
82.275129	2.665807	1116.512	
1.00000	2.081874	37.176431	7.647107
82.314105	2.217247	1204.471	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.554906	-75.434783	-2.166685
-329.485816	-65.794463	-320.289074	
0.25000	-1.554906	-75.418107	-2.166685
-329.448735	-69.301548	-365.341363	
0.50000	-1.554906	-75.403333	-2.166685
-329.416971	-73.557993	-410.393652	
0.75000	-1.554906	-75.389323	-2.166685
-329.386728	-79.066528	-455.445940	
1.00000	-1.554906	-75.376268	-2.166685
-329.364831	-85.471306	-500.498229	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.926743	49.966153	7.211788
109.908593	5.019695	1610.518	
0.25000	2.926743	49.979152	7.211788
109.934985	4.409887	1736.783	
0.50000	2.926743	49.992648	7.211788
109.963234	3.876930	1870.925	
0.75000	2.926743	50.006475	7.211788
109.992902	3.391854	2012.541	
1.00000	2.926743	50.021711	7.211788
110.027993	2.942462	2157.913	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.666815	-131.818003	-2.438981
-427.734211	-62.382516	-446.759755	
0.25000	-1.666815	-131.802992	-2.438981
-427.700826	-65.197929	-508.249593	
0.50000	-1.666815	-131.789694	-2.438981
-427.672228	-68.759702	-569.740989	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1382

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-1.666815	-131.777084	-2.438981
-427.644998	-73.423878	-631.232385	
1.00000	-1.666815	-131.765333	-2.438981
-427.625247	-79.054853	-692.723781	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.351595	105.502340	6.673143
230.705479	34.091157	2546.925	
0.25000	3.351595	119.125991	6.673143
254.500385	33.760633	2725.218	
0.50000	3.351595	133.283419	6.673143
280.348888	33.882494	2895.599	
0.75000	3.351595	147.792414	6.673143
307.738648	34.470899	3057.748	
1.00000	3.351595	163.457396	6.673143
339.648742	35.437442	3207.098	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.137654	-274.385853	-4.025465
-478.930514	-53.164203	-507.056183	
0.25000	-2.137654	-258.978487	-4.025465
-448.551360	-55.612023	-575.384564	
0.50000	-2.137654	-245.072986	-4.025465
-429.004454	-58.721222	-643.715512	
0.75000	-2.137654	-231.906893	-4.025465
-411.737484	-62.776770	-712.046459	
1.00000	-2.137654	-219.669758	-4.025465
-407.120944	-67.637766	-780.377407	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.220384	19.733255	2.201633
22.008393	1.398978	295.367669	
0.25000	1.220384	19.892131	2.201633
22.330961	1.240191	749.676214	
0.50000	1.220384	20.057077	2.201633
22.676238	1.083112	805.960167	
0.75000	1.220384	20.226081	2.201633
23.038841	0.929454	864.127969	
1.00000	1.220384	20.412296	2.201633
23.467736	0.777458	922.754149	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.571444	-56.743219	-2.120407
-172.806240	-40.018047	-174.600462	
0.25000	-0.571444	-56.559753	-2.120407
-172.398196	-37.904911	-198.362486	
0.50000	-0.571444	-56.397223	-2.120407
-172.048667	-36.301068	-222.124510	
0.75000	-0.571444	-56.243185	-2.120407
-171.715865	-35.186721	-245.886534	
1.00000	-0.571444	-56.099485	-2.120407
-171.474458	-35.807198	-269.648558	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.366001	50.659532	2.531806
134.805720	14.822140	1806.457	
0.25000	2.366001	50.673975	2.531806
134.835044	13.978758	1902.742	
0.50000	2.366001	50.688970	2.531806
134.866433	13.370897	2018.985	
0.75000	2.366001	50.704334	2.531806
134.899397	13.038406	2156.699	
1.00000	2.366001	50.721262	2.531806
134.938387	13.128917	2307.094	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.989389	-145.845799	-2.767336
-304.239968	-36.715990	-348.474881	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1383

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.989389	-145.829120	-2.767336
-304.202873	-34.675528	-394.854803	
0.50000	-0.989389	-145.814345	-2.767336
-304.171098	-33.088001	-441.238592	
0.75000	-0.989389	-145.800334	-2.767336
-304.140843	-32.403472	-487.622381	
1.00000	-0.989389	-145.787278	-2.767336
-304.118897	-32.507910	-534.006169	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.028705	61.807232	5.851510
159.502233	15.095425	1960.418	
0.25000	3.028705	61.820231	5.851510
159.528625	14.113422	2082.807	
0.50000	3.028705	61.833727	5.851510
159.556875	13.283223	2223.469	
0.75000	3.028705	61.847554	5.851510
159.586543	12.821440	2383.650	
1.00000	3.028705	61.862790	5.851510
159.621634	12.689080	2555.179	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.608337	-161.196299	-2.856077
-418.596641	-60.117384	-454.152699	
0.25000	-1.608337	-161.181288	-2.856077
-418.563256	-60.703674	-515.802012	
0.50000	-1.608337	-161.167990	-2.856077
-418.534658	-62.150157	-577.454305	
0.75000	-1.608337	-161.155381	-2.856077
-418.507429	-64.676744	-639.107525	
1.00000	-1.608337	-161.143630	-2.856077
-418.487677	-68.210247	-700.760745	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.473920	133.722012	5.312213
277.506876	47.016346	3004.023	
0.25000	3.473920	154.866344	5.312213
290.081644	47.491755	3211.591	
0.50000	3.473920	176.866826	5.312213
313.904564	48.608842	3396.768	
0.75000	3.473920	199.420549	5.312213
335.868855	50.297911	3559.077	
1.00000	3.473920	223.101228	5.312213
357.500052	52.533600	3696.197	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.295038	-343.395687	-5.204097
-397.063003	-50.838162	-515.039819	
0.25000	-2.295038	-320.160347	-5.204097
-376.768901	-51.372671	-583.557999	
0.50000	-2.295038	-298.644289	-5.204097
-372.196028	-52.698436	-652.079145	
0.75000	-2.295038	-278.314060	-5.204097
-372.196028	-54.952844	-720.600290	
1.00000	-2.295038	-259.484343	-5.204097
-372.196028	-58.068795	-789.121436	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.538066	132.059579	0.623274
360.045421	57.265865	2199.638	
0.25000	1.538066	159.678838	0.623274
360.045421	59.927081	2343.448	
0.50000	1.538066	188.501980	0.623274
360.045421	63.108116	2439.103	
0.75000	1.538066	218.068416	0.623274
360.045421	66.913130	2488.681	
1.00000	1.538066	247.433367	0.623274
360.045421	71.261646	2497.367	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1384

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.631979	-302.208608	-5.079420
-46.936402	-1.742641	-209.713679	
0.25000	-1.631979	-273.536977	-5.079420
-46.936402	-1.669253	-235.924116	
0.50000	-1.631979	-245.583777	-5.079420
-46.936402	-1.734715	-262.134554	
0.75000	-1.631979	-219.274250	-5.079420
-46.936402	-1.906542	-288.344991	
1.00000	-1.631979	-195.085977	-5.079420
-46.936402	-2.131469	-314.555429	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.538958	178.510166	1.437423
490.993687	85.355108	3376.964	
0.25000	2.538958	211.314486	1.437423
490.993687	87.377647	3569.039	
0.50000	2.538958	245.504576	1.437423
490.993687	90.139987	3721.311	
0.75000	2.538958	280.569288	1.437423
490.993687	94.010177	3837.669	
1.00000	2.538958	315.967562	1.437423
490.993687	98.857137	3917.773	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.292512	-424.498281	-6.477025
-144.977382	-3.662667	-366.761450	
0.25000	-2.292512	-389.887287	-6.477025
-144.977382	-3.632407	-413.168954	
0.50000	-2.292512	-356.646576	-6.477025
-144.977382	-3.821414	-459.576458	
0.75000	-2.292512	-325.326772	-6.477025
-144.977382	-4.163270	-505.983962	
1.00000	-2.292512	-296.458379	-6.477025
-144.977382	-4.570008	-552.391467	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.332058	175.433782	2.108300
439.418114	70.371328	3713.914	
0.25000	3.332058	205.505243	2.108300
439.418114	72.307104	3941.632	
0.50000	3.332058	236.842930	2.108300
439.418114	74.969989	4133.838	
0.75000	3.332058	268.982055	2.108300
439.418114	78.603308	4293.112	
1.00000	3.332058	301.479297	2.108300
439.418114	83.075248	4417.031	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.323623	-436.592913	-6.860797
-269.664703	-20.513193	-482.917347	
0.25000	-2.323623	-404.813559	-6.860797
-269.664703	-19.291557	-545.223633	
0.50000	-2.323623	-374.338367	-6.860797
-269.664703	-18.496928	-607.531939	
0.75000	-2.323623	-345.621143	-6.860797
-269.664703	-18.209711	-669.842144	
1.00000	-2.323623	-319.144784	-6.860797
-269.664703	-18.357533	-732.152348	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.581254	159.768828	4.332913
395.163507	59.948464	3423.165	
0.25000	3.581254	184.840138	4.332913
395.163507	61.376572	3645.157	
0.50000	3.581254	210.966994	4.332913
395.163507	63.411170	3837.736	
0.75000	3.581254	237.762019	4.332913
395.163507	66.255219	4003.349	
1.00000	3.581254	264.857356	4.332913
395.163507	69.790188	4139.777	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1385

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.507991	-392.083864	-6.805040
-348.867272	-47.557776	-522.002001	
0.25000	-2.507991	-365.586921	-6.805040
-348.867272	-46.716003	-590.696319	
0.50000	-2.507991	-340.178888	-6.805040
-348.867272	-46.682670	-659.393763	
0.75000	-2.507991	-316.236419	-6.805040
-348.867272	-47.704269	-728.091206	
1.00000	-2.507991	-294.162002	-6.805040
-348.867272	-49.544590	-796.788650	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.784984	28.517034	5.694763
65.983199	7.531376	455.741543	
0.25000	1.784984	28.523696	5.694763
65.998612	6.455806	510.791660	
0.50000	1.784984	28.530954	5.694763
66.015525	5.765846	565.863263	
0.75000	1.784984	28.538592	5.694763
66.033569	5.512362	620.932132	
1.00000	1.784984	28.546502	5.694763
66.052307	5.331307	676.017480	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.235457	-48.919163	-0.861994
-216.506735	-26.689935	-232.509187	
0.25000	-1.235457	-48.910463	-0.861994
-216.490244	-31.508769	-265.390639	
0.50000	-1.235457	-48.902124	-0.861994
-216.474506	-36.873117	-298.271167	
0.75000	-1.235457	-48.894307	-0.861994
-216.459949	-42.701910	-331.191873	
1.00000	-1.235457	-48.887131	-0.861994
-216.446956	-48.775512	-364.092531	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.313068	51.843303	8.173717
100.457937	6.276552	1001.997	
0.25000	3.313068	51.849963	8.173717
100.473324	5.066445	1111.614	
0.50000	3.313068	51.857218	8.173717
100.490209	4.278561	1221.843	
0.75000	3.313068	51.864853	8.173717
100.508224	4.042700	1332.951	
1.00000	3.313068	51.872761	8.173717
100.526932	3.939108	1444.312	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.041694	-100.343438	-2.225984
-390.688940	-66.620094	-424.925410	
0.25000	-2.041694	-100.334741	-2.225984
-390.672484	-71.692613	-484.281350	
0.50000	-2.041694	-100.326405	-2.225984
-390.656778	-77.428637	-543.646711	
0.75000	-2.041694	-100.318591	-2.225984
-390.642253	-84.180521	-603.037972	
1.00000	-2.041694	-100.311418	-2.225984
-390.629288	-91.689004	-662.430872	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.335241	72.423484	7.703137
124.093353	7.490198	1800.352	
0.25000	4.335241	72.615279	7.703137
124.536328	6.226074	1967.352	
0.50000	4.335241	72.824192	7.703137
125.022681	5.392493	2137.700	
0.75000	4.335241	73.044069	7.703137
125.541038	5.120483	2305.368	
1.00000	4.335241	73.271780	7.703137
126.079585	5.081019	2481.702	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1386

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.319631	-161.997144	-2.604470
-476.867930	-62.377075	-597.500736	
0.25000	-2.319631	-161.746694	-2.604470
-476.394246	-66.365925	-679.344401	
0.50000	-2.319631	-161.506645	-2.604470
-475.942149	-71.083813	-761.140893	
0.75000	-2.319631	-161.281616	-2.604470
-475.524047	-76.864843	-843.042681	
1.00000	-2.319631	-161.075053	-2.604470
-475.150866	-83.414982	-924.906667	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.223353	121.566651	7.015882
237.787904	35.573037	2562.478	
0.25000	5.223353	131.275947	7.015882
257.374824	35.749299	2779.274	
0.50000	5.223353	141.828512	7.015882
278.929182	36.345107	2984.279	
0.75000	5.223353	152.918508	7.015882
301.968903	37.629940	3176.066	
1.00000	5.223353	164.377848	7.015882
325.806209	39.227367	3351.366	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.013090	-274.309511	-4.079564
-521.800642	-53.579765	-678.231448	
0.25000	-3.013090	-261.676366	-4.079564
-501.832685	-56.995613	-766.121988	
0.50000	-3.013090	-249.565610	-4.079564
-482.752128	-61.062232	-853.993846	
0.75000	-3.013090	-238.194569	-4.079564
-465.110117	-66.034907	-941.865077	
1.00000	-3.013090	-227.748853	-4.079564
-449.853215	-71.658012	-1029.885	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.697765	27.010347	2.162372
26.349529	1.782528	743.387323	
0.25000	1.697765	27.076948	2.162372
26.503404	1.412910	811.109155	
0.50000	1.697765	27.149494	2.162372
26.672254	1.101395	880.360721	
0.75000	1.697765	27.228847	2.162372
26.852403	0.871800	950.070450	
1.00000	1.697765	27.304922	2.162372
27.039476	0.697134	1020.611	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.798246	-65.737127	-1.720662
-183.801369	-38.719966	-227.343256	
0.25000	-0.798246	-65.650157	-1.720662
-183.636810	-38.129493	-258.248650	
0.50000	-0.798246	-65.566799	-1.720662
-183.479750	-37.636288	-289.134227	
0.75000	-0.798246	-65.486657	-1.720662
-183.334499	-37.631948	-320.038452	
1.00000	-0.798246	-65.416927	-1.720662
-183.204850	-38.484953	-350.950394	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.245338	67.491045	2.446777
113.380941	15.146974	1843.202	
0.25000	3.245338	67.497707	2.446777
113.396348	14.640973	1975.337	

0.50000 3.245338 67.504964 2.446777
113.413253 14.279320 2118.808
0.75000 3.245338 67.512601 2.446777
113.431290 14.358591 2272.406
1.00000 3.245338 67.520511 2.446777
113.450021 14.713104 2429.864
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1387

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.454572 -156.404677 -2.501677
-310.936422 -34.960509 -461.878408
0.25000 -1.454572 -156.395978 -2.501677
-310.919939 -34.038481 -522.069081
0.50000 -1.454572 -156.387640 -2.501677
-310.904210 -33.373634 -582.338016
0.75000 -1.454572 -156.379823 -2.501677
-310.889661 -33.267730 -642.575718
1.00000 -1.454572 -156.372648 -2.501677
-310.876675 -33.856938 -702.815124

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.393040 83.531137 5.984940
149.904171 16.047476 2062.331
0.25000 4.393040 83.537132 5.984940
149.918037 15.047604 2228.212
0.50000 4.393040 83.543663 5.984940
149.933252 14.410652 2404.386
0.75000 4.393040 83.550537 5.984940
149.949485 14.303529 2589.769
1.00000 4.393040 83.557656 5.984940
149.966343 14.564234 2778.521

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.244955 -182.492408 -2.998731
-455.265407 -60.767471 -602.428042
0.25000 -2.244955 -182.484579 -2.998731
-455.250573 -62.785963 -682.831239
0.50000 -2.244955 -182.477075 -2.998731
-455.236416 -65.421970 -763.376345
0.75000 -2.244955 -182.470040 -2.998731
-455.223322 -68.837714 -843.855851
1.00000 -2.244955 -182.463583 -2.998731
-455.211634 -73.129446 -924.354070

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.582147 143.420723 5.492876
279.322198 47.419519 2950.126
0.25000 5.582147 158.208515 5.492876
295.496601 48.817859 3191.137
0.50000 5.582147 174.084012 5.492876
321.260778 50.570971 3409.313
0.75000 5.582147 190.805990 5.492876
348.699652 52.909894 3601.486
1.00000 5.582147 208.025680 5.492876
375.423504 55.561200 3770.911

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.270014 -326.459041 -5.203823
-451.490339 -51.824522 -684.469474
0.25000 -3.270014 -307.436361 -5.203823
-430.537573 -53.575538 -772.580291
0.50000 -3.270014 -289.155037 -5.203823
-410.431419 -55.900025 -860.681400
0.75000 -3.270014 -271.959912 -5.203823
-408.339807 -58.880699 -948.830990
1.00000 -3.270014 -256.145946 -5.203823
-408.336618 -62.603417 -1037.432

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.175591 117.344629 0.841866
376.713905 55.594782 1986.077
0.25000 3.175591 136.156180 0.841866
372.322670 59.401368 2127.738
0.50000 3.175591 156.278522 0.841866
367.931458 63.611591 2231.735
0.75000 3.175591 177.363791 0.841866
363.540246 68.181482 2297.816
1.00000 3.175591 198.930535 0.841866
359.149033 72.972789 2327.013
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1388

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.366174 -252.258237 -4.834400
-60.584050 -2.717191 -273.503545
0.25000 -2.366174 -228.320519 -4.834400
-60.584050 -2.774870 -308.127157
0.50000 -2.366174 -205.237765 -4.834400
-60.584050 -2.817269 -342.954245
0.75000 -2.366174 -183.431055 -4.834400
-60.584050 -2.866944 -377.264463
1.00000 -2.366174 -163.323684 -4.834400
-60.584050 -2.921942 -411.722808

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.798752 170.005808 1.599634
485.478648 83.758129 3083.171
0.25000 4.798752 191.745887 1.599634
484.992835 87.961693 3286.050
0.50000 4.798752 215.013028 1.599634
484.507022 92.574288 3457.473
0.75000 4.798752 239.402704 1.599634
484.021209 97.922032 3596.851
1.00000 4.798752 264.430167 1.599634
483.535396 103.694623 3696.801

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.314634 -362.269790 -6.263684
-164.842555 -4.589011 -483.117370
0.25000 -3.314634 -334.555131 -6.263684
-164.842555 -4.694008 -542.660262
0.50000 -3.314634 -307.812289 -6.263684
-164.842555 -4.781522 -602.122858
0.75000 -3.314634 -282.623709 -6.263684
-164.842555 -5.352098 -661.539793
1.00000 -3.314634 -259.380360 -6.263684
-164.842555 -5.752859 -725.045290

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.625782 174.068967 2.317793
440.518091 70.060095 3503.332
0.25000 5.625782 193.992754 2.317793
440.602678 73.529606 3751.365
0.50000 5.625782 215.317301 2.317793
440.687265 77.440613 3969.802
0.75000 5.625782 237.692558 2.317793
440.771853 82.013236 4158.366
1.00000 5.625782 260.620018 2.317793
440.856440 87.128985 4310.914

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.431585 -386.590399 -6.570954
-281.659309 -20.920774 -635.681162
0.25000 -3.431585 -361.183771 -6.570954
-281.659309 -20.198321 -716.515324
0.50000 -3.431585 -336.671612 -6.570954
-281.659309 -19.710044 -797.450895
0.75000 -3.431585 -313.586326 -6.570954
-281.659309 -19.605279 -878.271747
1.00000 -3.431585 -292.284332 -6.570954
-281.659309 -20.004273 -959.281546

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.959675 164.136217 4.590130
402.369165 60.104459 3304.397
0.25000 5.959675 180.744929 4.590130
402.457300 62.588422 3553.464
0.50000 5.959675 198.521898 4.590130
402.545435 65.587698 3778.084
0.75000 5.959675 217.174892 4.590130
402.633570 69.195362 3977.846
1.00000 5.959675 236.288380 4.590130
402.721704 73.319543 4147.711
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1389

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.601271 -360.425826 -6.518401
-383.654057 -48.758737 -699.654515
0.25000 -3.601271 -339.245681 -6.518401
-383.654057 -49.395429 -790.830018
0.50000 -3.601271 -318.811325 -6.518401
-383.654057 -50.519998 -882.089487
0.75000 -3.601271 -299.566545 -6.518401
-383.654057 -52.233592 -973.256502
1.00000 -3.601271 -281.808402 -6.518401
-383.654057 -54.626593 -1064.581

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.581254 178.510166 7.647107
490.993687 85.355108 3713.914
0.25000 3.581254 211.314486 7.647107
490.993687 87.377647 3941.632
0.50000 3.581254 245.504576 7.647107
490.993687 90.139997 4133.838
0.75000 3.581254 280.569288 7.647107
490.993687 94.010177 4293.112
1.00000 3.581254 315.967562 7.647107
490.993687 98.857137 4417.031

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.507991 -436.592913 -6.860797
-478.930514 -65.794463 -522.002001
0.25000 -2.507991 -404.813559 -6.860797
-448.551360 -69.301548 -590.696319
0.50000 -2.507991 -374.338367 -6.860797
-429.004454 -73.557993 -659.393763
0.75000 -2.507991 -345.621143 -6.860797
-427.644998 -79.066528 -728.091206
1.00000 -2.507991 -319.144784 -6.860797
-427.625247 -85.471306 -796.788650

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.959675 174.068967 8.173717
485.478648 83.758129 3503.332
0.25000 5.959675 193.992754 8.173717
484.992835 87.961693 3751.365
0.50000 5.959675 215.317301 8.173717
484.507022 92.574288 3969.802
0.75000 5.959675 239.422904 8.173717
484.021209 97.922032 4158.366
1.00000 5.959675 264.430167 8.173717
483.535396 103.694623 4310.914

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.601271 -386.590399 -6.570954
-521.800642 -66.620094 -699.654515
0.25000 -3.601271 -361.183771 -6.570954
-501.832685 -71.692613 -790.830018
0.50000 -3.601271 -336.671612 -6.570954
-482.752128 -77.428637 -882.089487
0.75000 -3.601271 -313.586326 -6.570954
-475.524047 -84.180521 -973.256502
1.00000 -3.601271 -292.284332 -6.570954
-475.150866 -91.689004 -1064.581

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.959675 178.510166 8.173717
490.993687 85.355108 3713.914
0.25000 5.959675 211.314486 8.173717
490.993687 87.961693 3941.632
0.50000 5.959675 245.504576 8.173717
490.993687 92.574288 4133.838
0.75000 5.959675 280.569288 8.173717
490.993687 97.922032 4293.112
1.00000 5.959675 315.967562 8.173717
490.993687 103.694623 4417.031
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1390

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.601271 -436.592913 -6.860797
-521.800642 -66.620094 -699.654515
0.25000 -3.601271 -404.813559 -6.860797
-501.832685 -71.692613 -790.830018
0.50000 -3.601271 -374.338367 -6.860797
-482.752128 -77.428637 -882.089487
0.75000 -3.601271 -345.621143 -6.860797
-475.524047 -84.180521 -973.256502
1.00000 -3.601271 -319.144784 -6.860797
-475.150866 -91.689004 -1064.581

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.959675 178.510166 8.173717
490.993687 85.355108 3713.914
0.25000 5.959675 211.314486 8.173717
490.993687 87.961693 3941.632
0.50000 5.959675 245.504576 8.173717
490.993687 92.574288 4133.838
0.75000 5.959675 280.569288 8.173717
490.993687 97.922032 4293.112
1.00000 5.959675 315.967562 8.173717
490.993687 103.694623 4417.031

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.601271 -436.592913 -6.860797
-521.800642 -66.620094 -699.654515
0.25000 -3.601271 -404.813559 -6.860797
-501.832685 -71.692613 -790.830018
0.50000 -3.601271 -374.338367 -6.860797
-482.752128 -77.428637 -882.089487
0.75000 -3.601271 -345.621143 -6.860797
-475.524047 -84.180521 -973.256502
1.00000 -3.601271 -319.144784 -6.860797
-475.150866 -91.689004 -1064.581

ELEM 110 ========== LENGTH = 4.928344

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.285334 18.320819 3.956811
42.648388 4.050178 543.124959
0.25000 1.285334 18.334217 3.956811
42.676603 3.423963 559.225124
0.50000 1.285334 18.348306 3.956811
42.707267 3.827731 577.010996
0.75000 1.285334 18.362885 3.956811
42.739780 5.121889 594.191917
1.00000 1.285334 18.379125 3.956811
42.778254 6.416670 611.412084

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.306924 -16.351260 -1.130995
-81.624591 -45.822999 -273.590135
0.25000 -1.306924 -16.335160 -1.130995
-81.586060 -47.851960 -296.049549
0.50000 -1.306924 -16.320906 -1.130995
-81.553413 -50.263104 -318.512322
0.75000 -1.306924 -16.307352 -1.130995
-81.523241 -53.092519 -340.975096
1.00000 -1.306924 -16.294955 -1.130995
-81.495306 -56.263882 -363.437870

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.481395 34.942599 6.268917
73.350135 3.319470 1205.398
0.25000 2.481395 34.955993 6.268917
73.378302 3.407994 1234.523
0.50000 2.481395 34.970077 6.268917
73.408919 4.654275 1264.830
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1391

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 2.481395 34.984652 6.268917
73.441384 5.924811 1296.795
1.00000 2.481395 35.000883 6.268917
73.479798 7.345670 1330.320

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.140951 -39.081465 -3.757788
-169.212763 -84.679572 -500.817682
0.25000 -2.140951 -39.065372 -3.757788
-169.174293 -84.548446 -542.639210
0.50000 -2.140951 -39.051124 -3.757788
-169.141693 -85.798275 -584.461657
0.75000 -2.140951 -39.037574 -3.757788
-169.111594 -98.251088 -626.284104
1.00000 -2.140951 -39.024928 -3.757788
-169.083704 -91.970572 -668.106551

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.468063 57.435241 6.146488
167.555845 4.366595 2158.875
0.25000 3.468063 57.447297 6.146488
167.581206 4.005723 2190.200
0.50000 3.468063 57.459973 6.146488
167.608771 4.401529 2229.560
0.75000 3.468063 57.473092 6.146488
167.638001 5.749441 2278.022
1.00000 3.468063 57.487702 6.146488
167.672587 7.307174 2335.768

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.233130 -78.763068 -3.988804
-267.463901 -78.036375 -692.985444
0.25000 -2.233130 -78.748583 -3.988804
-267.429264 -77.317324 -751.956865
0.50000 -2.233130 -78.735758 -3.988804
-267.399913 -77.957243 -810.928884
0.75000 -2.233130 -78.723563 -3.988804
-267.372808 -80.027709 -869.900903
1.00000 -2.233130 -78.712180 -3.988804
-267.347697 -83.586378 -928.872921

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.986291 136.724088 6.972042
245.089829 36.869592 3207.810
0.25000 3.986291 149.293028 6.972042
267.782534 35.823785 3260.563
0.50000 3.986291 162.532598 6.972042
292.863366 36.012351 3305.468
0.75000 3.986291 176.244111 6.972042
319.727093 36.828234 3347.592
1.00000 3.986291 191.207896 6.972042
351.092330 38.480943 3384.953

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.848378 -211.296624 -4.935017
-382.989724 -67.146216 -780.481301
0.25000 -2.848378 -196.474167 -4.935017
-352.993768 -66.863907 -847.869068
0.50000 -2.848378 -183.091269 -4.935017
-326.890829 -67.728910 -915.257326
0.75000 -2.848378 -170.384084 -4.935017
-302.178651 -69.781564 -982.645585
1.00000 -2.848378 -158.555656 -4.935017
-284.536352 -73.077534 -1050.034

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.426143 19.540080 2.134276
53.208480 1.018308 923.146851
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1392

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 1.426143 19.687424 2.134276
53.518453 0.656932 936.835177
0.50000 1.426143 19.842362 2.134276
53.855361 0.534340 953.482631
0.75000 1.426143 20.002698 2.134276
54.212614 0.554722 972.185853
1.00000 1.426143 20.181265 2.134276
54.635328 0.761131 994.026591

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.786715 -34.844446 -3.337989
-116.026894 -35.442028 -269.714614
0.25000 -0.786715 -34.667408 -3.337989
-115.603553 -32.628485 -292.992113
0.50000 -0.786715 -34.510667 -3.337989
-115.244822 -30.991208 -316.269612
0.75000 -0.786715 -34.361601 -3.337989
-114.913540 -30.263336 -339.547111
1.00000 -0.786715 -34.222479 -3.337989
-114.606626 -30.491990 -362.824610

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.796402 72.447169 3.112690
207.067637 13.936670 2307.497
0.25000 2.796402 72.460564 3.112690
207.095816 12.663566 2308.654
0.50000 2.796402 72.474649 3.112690
207.126444 12.099406 2329.441
0.75000 2.796402 72.489225 3.112690
207.158922 11.693232 2375.657
1.00000 2.796402 72.505458 3.112690
207.197351 12.019397 2442.228

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.273690 -101.379449 -3.827043
-252.670918 -32.062377 -533.936923
0.25000 -1.273690 -101.363356 -3.827043
-252.632433 -29.420760 -580.758787
0.50000 -1.273690 -101.349105 -3.827043
-252.599821 -27.723575 -627.520651
0.75000 -1.273690 -101.335554 -3.827043
-252.569704 -27.138992 -674.282515
1.00000 -1.273690 -101.322907 -3.827043
-252.541803 -27.708625 -721.044379

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.593569 80.004193 5.675971
218.317810 13.941664 2555.973
0.25000 3.593569 80.016249 5.675971
218.343172 12.855616 2570.548
0.50000 3.593569 80.028925 5.675971
218.370737 12.713524 2603.002
0.75000 3.593569 80.042044 5.675971
218.399967 13.107098 2651.823
1.00000 3.593569 80.056654 5.675971
218.434552 14.100111 2732.846

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.142726 -105.375397 -4.704221
-295.493743 -67.443187 -700.911542
0.25000 -2.142726 -105.360912 -4.704221
-295.459106 -65.599435 -761.269379
0.50000 -2.142726 -105.348087 -4.704221
-295.429755 -65.020709 -821.627215
0.75000 -2.142726 -105.335891 -4.704221
-295.402650 -65.908827 -881.985052
1.00000 -2.142726 -105.324509 -4.704221
-295.377539 -68.221558 -942.342889
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1393

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.140160 174.310759 6.566254
260.655362 53.876756 3696.573
0.25000 4.140160 193.680715 6.566254
273.285006 52.315149 3765.368
0.50000 4.140160 214.132324 6.566254
296.846096 51.930671 3813.349
0.75000 4.140160 235.335122 6.566254
318.668866 52.637894 3845.543
1.00000 4.140160 257.832915 6.566254
340.362587 54.349914 3861.759

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.050297 -277.439742 -6.194708
-334.743216 -57.917525 -789.111418
0.25000 -3.050297 -255.182501 -6.194708
-310.595409 -56.796363 -857.892316
0.50000 -3.050297 -234.533415 -6.194708
-289.508939 -56.729753 -926.674214
0.75000 -3.050297 -214.967092 -6.194708
-266.607431 -57.894611 -995.456111
1.00000 -3.050297 -196.820193 -6.194708
-264.328403 -60.252476 -1064.238

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.063592 170.884226 3.031197
240.936877 71.701858 2496.639
0.25000 2.063592 195.841903 3.031197
240.936877 70.873903 2562.216
0.50000 2.063592 222.328402 3.031197
240.936877 70.898472 2586.426
0.75000 2.063592 249.841784 3.031197
240.936877 71.829737 2570.647
1.00000 2.063592 277.426032 3.031197
240.936877 73.680501 2519.503

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.175483 -273.185389 -4.098931
-116.038747 -3.068988 -314.332651
0.25000 -2.175483 -245.968323 -4.098931
-116.038747 -3.707390 -342.694556
0.50000 -2.175483 -219.288696 -4.098931
-116.038747 -4.402930 -371.056461
0.75000 -2.175483 -194.107281 -4.098931
-116.038747 -5.125877 -399.418366
1.00000 -2.175483 -170.933622 -4.098931
-116.038747 -5.864307 -427.780271

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.285563 243.202035 4.987086
365.890832 99.491828 3916.966
0.25000 3.285563 272.962179 4.987086
365.890832 97.446315 3981.101

```
 0.50000     3.285563   304.485787     4.987086
365.890832    96.421814    4010.468
 0.75000     3.285563   337.214675     4.987086
365.890832    96.652804    4013.281
 1.00000     3.285563   370.577398     4.987086
365.890832    98.276373    3988.173

  COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.035227  -374.362324    -5.268466
-203.765368   -5.794829  -552.070759
 0.25000  -3.035227  -341.417775    -5.268466
-203.765368   -6.679744  -601.673408
 0.50000  -3.035227  -309.640492    -5.268466
-203.765368   -7.637724  -651.276057
 0.75000  -3.035227  -279.515318    -5.268466
-203.765368   -8.642321  -700.878707
 1.00000  -3.035227  -251.908991    -5.268466
-203.765368   -9.678618  -750.481356
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1394

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     4.171253   234.936815     5.112572
388.709322    84.088607    4416.533
 0.25000     4.171253   262.228582     5.112572
388.709322    82.322960    4487.863
 0.50000     4.171253   291.132037     5.112572
388.709322    81.607567    4529.798
 0.75000     4.171253   321.139026     5.112572
388.709322    82.309418    4548.917
 1.00000     4.171253   351.778119     5.112572
388.709322    84.438632    4545.209

  COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.059958  -372.128874    -6.372316
-283.234940   -18.971503   -731.886324
 0.25000  -3.059958  -341.871451    -6.372316
-283.234940   -18.039569   -797.000264
 0.50000  -3.059958  -312.733197    -6.372316
-283.234940   -17.738770   -862.114204
 0.75000  -3.059958  -285.198545    -6.372316
-283.234940   -18.126115   -927.228144
 1.00000  -3.059958  -259.783445    -6.372316
-283.234940   -19.234718   -992.342084

  COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     4.427616   208.567380     6.437751
346.936855    71.070609    4139.719
 0.25000     4.427616   231.321553     6.437751
346.936855    69.433922    4210.567
 0.50000     4.427616   255.419268     6.437751
346.936855    68.856727    4256.907
 0.75000     4.427616   280.436982     6.437751
346.936855    69.624411    4284.389
 1.00000     4.427616   305.983396     6.437751
346.936855    71.696126    4293.193

  COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.328468  -324.317994    -7.496554
-299.201761   -49.760003   -796.679818
 0.25000  -3.328468  -299.089733    -7.496554
-299.201761   -48.194037   -866.625087
 0.50000  -3.328468  -274.796186    -7.496554
-299.201761   -47.657965   -936.570357
 0.75000  -3.328468  -251.839515    -7.496554
-299.201761   -48.341954   -1006.516
 1.00000  -3.328468  -230.649764    -7.496554
-299.201761   -50.171677   -1076.461

  COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     2.285242    26.013350     3.970835
53.322153     5.883620   676.672976
 0.25000     2.285242    26.020215     3.970835
53.336706     6.084907   705.153270
 0.50000     2.285242    26.027607     3.970835
53.352792     6.313871   733.635829
 0.75000     2.285242    26.035428     3.970835
53.370023     6.749580   762.108682
 1.00000     2.285242    26.043494     3.970835
53.387966     8.046329   790.601510

  COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.691334  -25.814309    -1.600266
-94.414455   -48.954053  -364.378898
 0.25000  -1.691334  -25.806128    -1.600266
-94.397408   -51.589250  -394.354151
 0.50000  -1.691334  -25.798274    -1.600266
-94.381070   -55.011323  -424.348513
 0.75000  -1.691334  -25.790902    -1.600266
-94.365872   -58.411027  -454.321731
 1.00000  -1.691334  -25.784130    -1.600266
-94.352193   -62.020352  -484.298682
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1395

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     4.154124   49.950953     6.294639
89.541773     4.864080    1445.449
 0.25000     4.154124   49.957816     6.294639
89.556299     5.204507    1497.019
 0.50000     4.154124   49.965205     6.294639
89.572356     6.263674    1549.000
 0.75000     4.154124   49.973023     6.294639
89.589556     7.521327    1601.265
 1.00000     4.154124   49.981086     6.294639
89.607468     8.997374    1654.270

  COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -2.784604  -52.906139    -4.177052
-179.826642   -91.848040  -662.858138
 0.25000  -2.784604  -52.897961    -4.177052
-179.809627   -93.747156  -718.320680
 0.50000  -2.784604  -52.890110    -4.177052
-179.793321   -96.125991  -773.815276
 0.75000  -2.784604  -52.882741    -4.177052
-179.778153   -99.400707  -829.270451
 1.00000  -2.784604  -52.875971    -4.177052
-179.764501  -103.507835  -884.733611

  COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     5.337158   86.331070     6.231478
161.826772    6.106490    2482.915
 0.25000     5.337158   86.528700     6.231478
162.244934    6.381808    2552.285
 0.50000     5.337158   86.741485     6.231478
162.707174    7.455502    2624.747
 0.75000     5.337158   86.966627     6.231478
163.202316    8.712072    2699.900
 1.00000     5.337158   87.198806     6.231478
163.717933   10.237563    2778.277

  COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.106431  -95.071631    -4.414134
-268.245800   -83.390989  -925.267107
 0.25000  -3.106431  -94.836122    -4.414134
-267.756015   -84.728238   -1004.145
 0.50000  -3.106431  -94.610054    -4.414134
-267.286627   -86.815979   -1083.057
 0.75000  -3.106431  -94.397836    -4.414134
-266.849993   -89.897155   -1161.915
 1.00000  -3.106431  -94.202892    -4.414134
-266.457041   -93.880781   -1240.815

  COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     6.444805   151.328903     6.799479
231.607677    40.925118    3352.086
 0.25000     6.444805   161.326232     6.799479
249.715831    41.141576    3448.125
 0.50000     6.444805   172.075270     6.799479
269.882284    42.161707    3531.842
 0.75000     6.444805   183.429659     6.799479
291.520594    43.443909    3605.532
 1.00000     6.444805   195.111537     6.799479
313.982821    45.079395    3667.178

  COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.008089  -199.321935    -5.171375
-371.201760   -72.331000   -1030.091
 0.25000  -4.008089  -187.493173    -5.171375
-350.229039   -73.798664   -1117.798
 0.50000  -4.008089  -176.111639    -5.171375
-330.061881   -75.895371   -1205.708
 0.75000  -4.008089  -165.413494    -5.171375
-311.349100   -78.830348   -1294.420
 1.00000  -4.008089  -155.571990    -5.171375
-294.689689   -82.518163   -1383.184
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1396

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     2.048068   31.142433     2.292586
51.937895     0.965163    1021.092
 0.25000     2.048068   31.211061     2.292586
52.083158     0.642005    1048.313
 0.50000     2.048068   31.284951     2.292586
52.243729     0.544263    1076.156
 0.75000     2.048068   31.363133     2.292586
52.415730     0.674524    1104.144
 1.00000     2.048068   31.443759     2.292586
52.594844     0.985333    1133.255

  COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.071037  -37.232514    -2.977394
-104.950504   -38.353673  -351.055606
 0.25000  -1.071037  -37.150732    -2.977394
-104.780357   -36.822143  -381.414916
 0.50000  -1.071037  -37.072228    -2.977394
-104.617297   -35.509597  -411.794631
 0.75000  -1.071037  -36.998534    -2.977394
-104.465614   -35.256583  -442.169402
 1.00000  -1.071037  -36.930839    -2.977394
-104.329103   -35.760999  -472.529016

  COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     3.912098   93.994724     3.113527
174.201020    15.525656    2430.367
 0.25000     3.912098   94.001589     3.113527
174.215566    14.930469    2470.755
 0.50000     3.912098   94.008980     3.113527
174.231645    14.766493    2520.172
 0.75000     3.912098   94.016800     3.113527
174.248868    14.857762    2582.311
 1.00000     3.912098   94.024865     3.113527
174.266803    15.312286    2653.978

  COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.904245  -102.923862    -3.528871
-235.515805   -33.839777  -702.861743
 0.25000  -1.904245  -102.915662    -3.528871
-235.498766   -32.317797  -761.920200
 0.50000  -1.904245  -102.907829    -3.528871
-235.482436   -31.471664  -825.521701
 0.75000  -1.904245  -102.900457    -3.528871
-235.467246   -31.437440  -887.098134
 1.00000  -1.904245  -102.893686    -3.528871
-235.453574   -32.086433  -948.681443

  COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     5.379382   105.558965     5.630444
196.139585    15.914715    2779.497
 0.25000     5.379382   105.565143     5.630444
196.152677    15.605290    2838.924
 0.50000     5.379382   105.571795     5.630444
196.167148    15.990000    2906.423
 0.75000     5.379382   105.578833     5.630444
196.182649    16.703060    2985.486
 1.00000     5.379382   105.586092     5.630444
196.198791    17.771914    3073.274

  COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -2.997356  -113.958909    -4.730879
-288.531270   -73.220542  -924.605294
 0.25000  -2.997356  -113.951546    -4.730879
-288.515934   -73.155203   -1016.495
 0.50000  -2.997356  -113.944479    -4.730879
-288.501238   -73.786057   -1097.023
 0.75000  -2.997356  -113.937845    -4.730879
-288.487566   -75.406186   -1203.891
 1.00000  -2.997356  -113.931750    -4.730879
-288.475261   -77.848074   -1286.183
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1397

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     6.864062   180.660630     6.437566
232.543049    57.783112    3771.224
 0.25000     6.864062   195.794471     6.437566
247.066855    57.852441    3881.705
 0.50000     6.864062   212.041423     6.437566
270.139548    58.612100    3969.449
 0.75000     6.864062   229.159298     6.437566
295.028192    59.776079    4035.945
 1.00000     6.864062   246.716013     6.437566
320.632529    61.443454    4081.346

  COMB DL-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.343513  -249.030375    -5.969438
-341.450727   -63.643010   -1037.444
 0.25000  -4.343513  -231.297198    -5.969438
-318.502952   -64.079520   -1138.116
 0.50000  -4.343513  -214.192512    -5.969438
-296.273844   -65.105539   -1229.606
 0.75000  -4.343513  -198.064966    -5.969438
-275.805559   -66.963790   -1342.701
 1.00000  -4.343513  -183.218539    -5.969438
-265.250962   -69.497267   -1435.244

  COMB DL-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     4.029381   147.380128     2.957700
229.317027    74.734192    2326.079
 0.25000     4.029381   166.512476     2.957700
226.607236    75.181160    2403.364
 0.50000     4.029381   187.094882     2.957700
222.830326    76.093772    2444.957
 0.75000     4.029381   208.663374     2.957700
218.440534    77.552238    2450.680
 1.00000     4.029381   230.753484     2.957700
214.049831    79.495990    2420.932

  COMB DL-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.133033  -221.918841    -3.635312
-119.064274   -4.621485  -411.419792
 0.25000  -3.133033  -199.801856    -3.635312
-120.745186   -5.465925  -448.277473
 0.50000  -3.133033  -178.342511    -3.635312
-121.358978   -6.327880  -485.249421
 0.75000  -3.133033  -158.039690    -3.635312
-121.359852   -7.214699  -522.879398
 1.00000  -3.133033  -139.334553    -3.635312
-121.359852   -8.125005  -559.887494

  COMB DL-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     6.037580   221.393748     4.657817
334.224901   106.075385    3695.695
 0.25000     6.037580   243.513605     4.657817
333.977731   106.209738    3787.407
 0.50000     6.037580   267.314951     4.657817
333.491974   106.876470    3847.444
 0.75000     6.037580   292.288454     4.657817
333.006217   108.138211    3881.431
 1.00000     6.037580   317.901381     4.657817
332.520461   109.891781    3883.162

  COMB DL-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.362239  -309.416267    -4.840722
-224.360724   -91.848040  -764.559572
 0.25000  -4.362239  -283.719312    -4.840722
-224.599321   -9.125022  -794.704302
 0.50000  -4.362239  -258.866914    -4.840722
-224.599321   -10.289394  -860.761392
 0.75000  -4.362239  -235.354536    -4.840722
-224.599321   -11.527976  -926.255435
 1.00000  -4.362239  -213.695287    -4.840722
-224.599321   -12.767549  -991.668228
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1398

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB DL-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     6.974422   228.278115     5.077451
348.283926    89.498255    4310.253
 0.25000     6.974422   248.550281     5.077451
348.322791    89.505553    4420.296
 0.50000     6.974422   270.364690     5.077451
348.407369    90.309990    4500.411
 0.75000     6.974422   293.256813     5.077451
348.491946    91.922700    4554.485
 1.00000     6.974422   316.739694     5.077451
348.576524    94.098934    4580.195

  COMB DL-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.518738  -315.121291    -5.866425
-288.177397   -21.715451  -958.973400
 0.25000  -4.518738  -291.558314    -5.866425
-288.131682   -21.931670   -1043.447
 0.50000  -4.518738  -268.773568    -5.866425
-288.131682   -21.967657   -1129.190
 0.75000  -4.518738  -247.220042    -5.866425
-288.131682   -22.965684   -1214.474
 1.00000  -4.518738  -227.365589    -5.866425
-288.131682   -24.378640   -1299.701

  COMB DL-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     7.391601   208.354276     6.456577
319.513396    75.752256    4147.596
 0.25000     7.391601   225.253910     6.456577
319.553722    75.753918    4258.817
 0.50000     7.391601   243.439255     6.456577
319.641847    76.511896    4345.125
 0.75000     7.391601   262.523139     6.456577
319.729971    78.039299    4409.698
 1.00000     7.391601   282.099659     6.456577
319.818096    80.132159    4451.022

  COMB DL-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.776747  -281.960413    -6.930955
-306.755418   -56.099591   -1064.497
 0.25000  -4.776747  -262.317121    -6.930955
-306.707617   -56.021318   -1157.129
 0.50000  -4.776747  -243.322631    -6.930955
-306.707617   -56.504246   -1250.801
 0.75000  -4.776747  -225.354635    -6.930955
-306.707617   -57.848858   -1354.238
 1.00000  -4.776747  -208.803075    -6.930955
-306.707617   -59.858026   -1448.174

  COMB      DB ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     4.427616   243.202035     6.972042
388.709322    99.491828    4416.533
 0.25000     4.427616   272.962179     6.972042
388.709322    97.446315    4487.863
 0.50000     4.427616   304.485787     6.972042
388.709322    96.812814    4529.798
 0.75000     4.427616   337.214675     6.972042
388.709322    96.652804    4548.917
 1.00000     4.427616   370.577398     6.972042
388.709322    98.276373    4545.209

  COMB      DB ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.328468  -374.362324    -7.496554
-382.989724   -84.679572   -796.679818
 0.25000  -3.328468  -341.871451    -7.496554
-352.993768   -84.548446   -866.625087
 0.50000  -3.328468  -312.733197    -7.496554
-326.890829   -85.798275   -936.570357
 0.75000  -3.328468  -285.198545    -7.496554
-302.178651   -88.263088   -1006.516
 1.00000  -3.328468  -259.783445    -7.496554
-299.201761   -91.970572   -1076.461
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1399

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

  COMB      DL ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     7.391601   228.278115     6.799479
348.283926   106.075385    4310.253
 0.25000     7.391601   248.550281     6.799479
348.322791   106.209738    4420.296
 0.50000     7.391601   270.364690     6.799479
348.407369   106.876470    4500.411
 0.75000     7.391601   293.256813     6.799479
348.491946   108.138211    4554.485
 1.00000     7.391601   317.901381     6.799479
348.576524   109.891781    4580.195

  COMB      DL ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.776747  -315.121291    -6.930955
-371.201760   -91.848040   -1064.497
 0.25000  -4.776747  -291.558314    -6.930955
-350.229039   -93.747156   -1157.129
 0.50000  -4.776747  -268.773568    -6.930955
-330.061881   -96.125991   -1250.801
 0.75000  -4.776747  -247.220042    -6.930955
-311.349100   -99.400707   -1354.238
 1.00000  -4.776747  -227.365589    -6.930955
-306.707617  -103.507835   -1448.174

  COMB      CAR ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     7.391601   243.202035     6.972042
388.709322   106.075385    4416.533
 0.25000     7.391601   272.962179     6.972042
388.709322   106.209738    4487.863
 0.50000     7.391601   304.485787     6.972042
388.709322   106.876470    4529.798
 0.75000     7.391601   337.214675     6.972042
388.709322   108.138211    4554.485
 1.00000     7.391601   370.577398     6.972042
388.709322   109.891781    4580.195

  COMB      CAR ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.776747  -374.362324    -7.496554
-382.989724   -91.848040   -1064.497
 0.25000  -4.776747  -341.871451    -7.496554
-352.993768   -93.747156   -1157.129
 0.50000  -4.776747  -312.733197    -7.496554
-330.061881   -96.125991   -1250.801
 0.75000  -4.776747  -285.198545    -7.496554
-311.349100   -99.400707   -1354.238
 1.00000  -4.776747  -259.783445    -7.496554
-306.707617  -103.507835   -1448.174

  COMB    DESIGN ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     7.391601   243.202035     6.972042
388.709322   106.075385    4416.533
 0.25000     7.391601   272.962179     6.972042
388.709322   106.209738    4487.863
 0.50000     7.391601   304.485787     6.972042
388.709322   106.876470    4529.798
 0.75000     7.391601   337.214675     6.972042
388.709322   108.138211    4554.485
 1.00000     7.391601   370.577398     6.972042
388.709322   109.891781    4580.195

  COMB    DESIGN ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.776747  -374.362324    -7.496554
-382.989724   -91.848040   -1064.497
 0.25000  -4.776747  -341.871451    -7.496554
-352.993768   -93.747156   -1157.129
 0.50000  -4.776747  -312.733197    -7.496554
-330.061881   -96.125991   -1250.801
 0.75000  -4.776747  -285.198545    -7.496554
-311.349100   -99.400707   -1354.238
 1.00000  -4.776747  -259.783445    -7.496554
-306.707617  -103.507835   -1448.174
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1400

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM      111 ================== LENGTH =    4.927671

  COMB DB-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     1.402683   15.031751     2.063103
65.310875    6.521636   611.431863
 0.25000     1.402683   15.044749     2.063103
65.338858    8.505705   602.062489
 0.50000     1.402683   15.058471     2.063103
65.369755   10.433088   592.889810
 0.75000     1.402683   15.072708     2.063103
65.402550   12.484599   583.750458
 1.00000     1.402683   15.088625     2.063103
65.441287   14.476817   574.902560

  COMB DB-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.683651  -6.254708    -2.598404
-7.119323   -56.124936  -363.611321
 0.25000  -1.683651  -6.238908    -2.598404
-7.080495   -54.624649  -381.455159
 0.50000  -1.683651  -6.224948    -2.598404
-7.047528   -53.611433  -399.298997
 0.75000  -1.683651  -6.211677    -2.598404
-7.016301   -53.077855  -417.142835
 1.00000  -1.683651  -6.199298    -2.598404
-6.987380   -53.033047  -434.986679

  COMB DB-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     2.588897   37.681904     4.186387
146.537548    7.599354    1330.345
 0.25000     2.588897   37.694897     4.186387
146.565486    9.698117    1305.243
 0.50000     2.588897   37.708614     4.186387
146.596308   11.880541    1281.783
 0.75000     2.588897   37.722846     4.186387
146.629056   14.132099    1259.659
 1.00000     2.588897   37.738756     4.186387
146.667732   16.404648    1239.815
```

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.757178	-15.292748	-5.417280
-38.156271	-91.767740	-668.362987	
0.25000	-2.757178	-15.276957	-5.417280
-38.117504	-88.561055	-703.906804	
0.50000	-2.757178	-15.263002	-5.417280
-38.084584	-86.601237	-739.450620	
0.75000	-2.757178	-15.249736	-5.417280
-38.053405	-85.974265	-774.994436	
1.00000	-2.757178	-15.237362	-5.417280
-38.024532	-86.605551	-810.538258	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.601697	85.339572	4.434202
259.273521	7.287621	2335.749	
0.25000	3.601697	85.351267	4.434202
259.298675	9.458581	2277.855	
0.50000	3.601697	85.363613	4.434202
259.326431	11.672684	2229.401	
0.75000	3.601697	85.376424	4.434202
259.355915	13.918786	2191.635	
1.00000	3.601697	85.390744	4.434202
259.390737	16.745047	2164.887	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.868017	-39.610977	-5.364952
-128.825850	-83.322111	-929.082121	
0.25000	-2.868017	-39.596763	-5.364952
-128.790946	-80.312227	-983.147478	
0.50000	-2.868017	-39.584203	-5.364952
-128.761307	-78.738845	-1037.220	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1401

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-2.868017	-39.572262	-5.364952
-128.733235	-78.645777	-1091.297	
1.00000	-2.868017	-39.561124	-5.364952
-128.707239	-79.909702	-1145.373	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.232205	179.124463	5.880146
283.902610	38.525115	3385.027	
0.25000	4.232205	191.298684	5.880146
303.117349	38.884251	3329.303	
0.50000	4.232205	204.176700	5.880146
327.942868	39.617417	3271.693	
0.75000	4.232205	217.551528	5.880146
354.216694	40.793870	3214.632	
1.00000	4.232205	232.198680	5.880146
384.441821	42.808502	3153.075	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.604979	-162.349408	-5.719325
-309.111151	-73.179157	-1050.114	
0.25000	-3.604979	-147.820757	-5.719325
-277.406911	-71.252921	-1115.645	
0.50000	-3.604979	-134.724203	-5.719325
-250.108230	-70.518454	-1181.179	
0.75000	-3.604979	-122.292718	-5.719325
-224.481894	-71.014035	-1246.719	
1.00000	-3.604979	-110.729466	-5.719325
-201.228465	-72.649368	-1312.258	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.457866	37.333414	2.178773
114.026516	0.675241	994.015517	
0.25000	1.457866	37.476353	2.178773
114.333954	0.781963	969.640661	
0.50000	1.457866	37.627252	2.178773
114.673201	0.934282	947.886923	
0.75000	1.457866	37.783819	2.178773
115.033562	1.123444	928.740200	
1.00000	1.457866	37.958844	2.178773
115.459166	1.339713	916.023879	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.013860	-16.810642	-2.762571
-60.881674	-30.427169	-362.881509	
0.25000	-1.013860	-16.636913	-2.762571
-60.455075	-28.871873	-385.230994	
0.50000	-1.013860	-16.483398	-2.762571
-60.092823	-28.086661	-407.580479	
0.75000	-1.013860	-16.337452	-2.762571
-59.749723	-28.233396	-429.929964	
1.00000	-1.013860	-16.201324	-2.762571
-59.431985	-29.186618	-452.279522	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.887387	116.605846	3.118961
268.700240	11.888781	2442.160	
0.25000	2.887387	116.618840	3.118961
268.728189	11.627842	2360.882	
0.50000	2.887387	116.632558	3.118961
268.759029	11.504853	2299.808	
0.75000	2.887387	116.646792	3.118961
268.791789	11.526486	2267.779	
1.00000	2.887387	116.662703	3.118961
268.830480	12.188904	2257.306	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.611103	-63.364109	-3.115522
-198.138093	-27.694972	-721.037416	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1402

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-1.611103	-63.348315	-3.115522
-198.099311	-26.440663	-768.526395	
0.50000	-1.611103	-63.334360	-3.115522
-198.066379	-26.153840	-816.020254	
0.75000	-1.611103	-63.321092	-3.115522
-198.035188	-26.870624	-863.521193	
1.00000	-1.611103	-63.308716	-3.115522
-198.006303	-28.471946	-911.022140	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.716278	117.000846	4.633439
297.818153	14.061232	2732.799	
0.25000	3.716278	117.012541	4.633439
297.843307	14.977194	2650.656	
0.50000	3.716278	117.024888	4.633439
297.871064	16.011103	2586.673	
0.75000	3.716278	117.037698	4.633439
297.900548	17.168056	2549.231	
1.00000	3.716278	117.052018	4.633439
297.935370	18.829862	2531.736	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.734092	-61.778982	-5.210000
-186.066193	-68.110435	-942.464473	
0.25000	-2.734092	-61.764768	-5.210000
-186.031290	-65.590649	-1000.295	
0.50000	-2.734092	-61.752208	-5.210000
-186.001651	-64.390437	-1058.129	
0.75000	-2.734092	-61.740267	-5.210000
-185.973579	-64.601076	-1115.971	
1.00000	-2.734092	-61.729129	-5.210000
-185.947582	-66.111080	-1173.812	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.541583	224.154901	6.657292
268.739807	54.387965	3861.778	
0.25000	4.541583	242.876813	6.657292
276.063758	53.314016	3815.546	
0.50000	4.541583	262.735541	6.657292
300.425537	52.819039	3757.531	
0.75000	4.541583	283.387611	6.657292
323.018580	53.114808	3687.539	
1.00000	4.541583	305.367140	6.657292
344.200650	54.440967	3601.504	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.842411	-224.452524	-5.977668
-310.136075	-60.563688	-1064.230	
0.25000	-3.842411	-202.672459	-5.977668
-287.754149	-59.239998	-1133.503	
0.50000	-3.842411	-182.486631	-5.977668
-266.254591	-59.026714	-1202.779	
0.75000	-3.842411	-163.366466	-5.977668
-243.019654	-59.994357	-1272.061	
1.00000	-3.842411	-145.648899	-5.977668
-227.315580	-62.038317	-1341.343	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.574663	199.730288	4.796410
127.761497	73.787291	2519.300	
0.25000	2.574663	223.751641	4.796410
127.761497	70.665033	2533.439	
0.50000	2.574663	249.383685	4.796410
127.761497	68.521536	2517.469	
0.75000	2.574663	276.106141	4.796410
127.761497	67.416942	2463.537	
1.00000	2.574663	302.946137	4.796410
127.761497	67.330309	2372.316	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1403

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.693280	-248.218980	-2.906162
-240.337520	-6.567513	-427.604138	
0.25000	-2.693280	-221.678796	-2.906162
-240.337520	-7.928141	-460.147056	
0.50000	-2.693280	-195.651933	-2.906162
-240.337520	-9.309435	-492.689973	
0.75000	-2.693280	-171.099244	-2.906162
-240.337520	-10.703238	-525.232890	
1.00000	-2.693280	-148.531216	-2.906162
-240.337520	-12.105547	-557.775807	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.901695	294.616909	6.643225
233.718133	98.436959	3987.983	
0.25000	3.901695	323.296558	6.643225
233.718133	94.104211	3961.586	
0.50000	3.901695	353.833167	6.643225
235.718133	90.998244	3912.794	
0.75000	3.901695	385.647954	6.643225
233.718133	89.302634	3842.138	
1.00000	3.901695	418.149722	6.643225
233.718133	88.885201	3741.064	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.722318	-331.036544	-3.931432
-349.617099	-10.653603	-750.222909	
0.25000	-3.722318	-298.877163	-3.931432
-349.617099	-12.457043	-808.031750	
0.50000	-3.722318	-267.858515	-3.931432
-349.617099	-14.295592	-861.800591	
0.75000	-3.722318	-238.564219	-3.931432
-349.617099	-16.162524	-917.589432	
1.00000	-3.722318	-211.561641	-3.931432
-349.617099	-18.055328	-973.378274	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.759375	302.843382	6.914390
316.266796	49.310819	3987.219	
0.25000	4.759375	329.147605	6.914390
316.266796	80.973547	4497.492	
0.50000	4.759375	357.148875	6.914390
316.266796	78.649996	4432.867	
0.75000	4.759375	386.320267	6.914390
316.266796	77.552941	4350.867	
1.00000	4.759375	416.172267	6.914390
316.266796	77.894798	4245.340	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.806102	-316.54804	-4.751502
-376.392431	-19.944985	-992.129547	
0.25000	-3.806102	-287.009262	-4.751502
-376.392431	-20.776345	-1062.676	
0.50000	-3.806102	-258.564894	-4.751502
-376.392431	-22.205946	-1133.225	
0.75000	-3.806102	-231.698730	-4.751502
-376.392431	-24.254824	-1203.782	
1.00000	-3.806102	-206.927330	-4.751502
-376.392431	-26.832958	-1274.340	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.944857	264.923133	7.450417
318.162335	71.754569	4293.046	
0.25000	4.944857	286.854065	7.450417
318.162335	69.454688	4244.248	
0.50000	4.944857	310.199692	7.450417
318.162335	68.040555	4181.592	
0.75000	4.944857	334.520826	7.450417
318.162335	67.671768	4104.312	
1.00000	4.944857	359.411093	7.450417
318.162335	68.595560	4007.912	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1404

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.175215	-268.413806	-6.247080
-326.246953	-50.691667	-1076.377	
0.25000	-4.175215	-243.784110	-6.247080
-326.246953	-50.000141	-1148.741	
0.50000	-4.175215	-220.069020	-6.247080
-326.246953	-50.345485	-1221.108	
0.75000	-4.175215	-197.669638	-6.247080
-326.246953	-51.806437	-1293.481	
1.00000	-4.175215	-177.016505	-6.247080
-326.246953	-54.247200	-1365.854	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.665584	27.216927	1.770845
83.181535	8.681080	790.698062	
0.25000	2.665584	27.223968	1.770845
83.195389	10.953195	789.494259	
0.50000	2.665584	27.231568	1.770845
83.210792	13.256748	788.326662	
0.75000	2.665584	27.239590	1.770845
83.227341	15.596586	787.131060	
1.00000	2.665584	27.247856	1.770845
83.244604	17.986187	786.152468	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.161193	-9.479584	-3.669331
-6.825931	-62.560202	-484.526621	
0.25000	-2.161193	-9.471759	-3.669331
-6.808062	-61.369624	-508.755589	
0.50000	-2.161193	-9.464262	-3.669331
-6.790907	-60.446284	-532.968158	
0.75000	-2.161193	-9.457224	-3.669331
-6.774893	-59.797452	-557.193695	
1.00000	-2.161193	-9.450796	-3.669331
-6.760414	-59.424623	-581.418813	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.711644	62.496637	3.876730
167.292160	9.809732	1654.430	
0.25000	4.711644	62.503675	3.876730
167.305986	12.257321	1645.748	
0.50000	4.711644	62.511273	3.876730
167.321358	14.817047	1637.363	
0.75000	4.711644	62.519292	3.876730
167.337876	17.499560	1629.281	
1.00000	4.711644	62.527555	3.876730
167.355105	20.273573	1621.508	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.543997	-21.265640	-6.549978
-31.244261	-104.188016	-885.086358	
0.25000	-3.543997	-21.257818	-6.549978
-31.226424	-101.655934	-932.818259	
0.50000	-3.543997	-21.250324	-6.549978
-31.209300	-99.771366	-980.514783	
0.75000	-3.543997	-21.243289	-6.549978
-31.193314	-98.844864	-1028.224	
1.00000	-3.543997	-21.236864	-6.549978
-31.178861	-98.579255	-1075.960	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.905778	121.570535	4.205057
260.854095	10.919223	2778.395	
0.25000	5.905778	121.773218	4.205057
261.252080	13.242108	2750.232	
0.50000	5.905778	121.992014	4.205057
261.694596	16.010408	2724.842	
0.75000	5.905778	122.222952	4.205057
262.170063	19.085683	2702.999	
1.00000	5.905778	122.460889	4.205057
262.666035	22.391177	2684.956	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1405

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.889655	-48.173518	-6.368844
-111.514102	-94.417780	-1241.117	
0.25000	-3.889655	-47.948282	-6.368844
-111.087637	-92.454905	-1293.104	
0.50000	-3.889655	-47.732460	-6.368844
-110.507670	-91.374634	-1387.018	
0.75000	-3.889655	-47.529874	-6.368844
-110.047480	-91.280693	-1459.989	
1.00000	-3.889655	-47.344846	-6.368844
-109.631438	-91.968947	-1532.887	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.187119	199.648654	5.765794
278.064432	48.157769	3667.228	
0.25000	7.187119	209.905974	5.765794
294.954935	47.024246	3647.201	
0.50000	7.187119	220.966169	5.765794
313.912524	48.400512	3615.265	
0.75000	7.187119	232.620708	5.765794
334.349631	50.165764	3574.110	
1.00000	7.187119	244.598880	5.765794
355.615330	52.180818	3522.272	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.959510	-144.482342	-6.403248
-270.230957	-83.588235	-1383.299	
0.25000	-4.959510	-133.185683	-6.403248
-247.841460	-82.595538	-1469.835	
0.50000	-4.959510	-122.333096	-6.403248
-226.274295	-82.347136	-1556.357	
0.75000	-4.959510	-112.147576	-6.403248
-206.170029	-82.933598	-1642.958	
1.00000	-4.959510	-102.822772	-6.403248
-188.120098	-84.171305	-1729.464	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.211676	50.517342	2.239059
107.184988	0.822306	1133.313	
0.25000	2.211676	50.587724	2.239059
107.323247	1.030145	1121.546	
0.50000	2.211676	50.663701	2.239059
107.476973	1.294443	1110.032	
0.75000	2.211676	50.743896	2.239059
107.642145	1.621885	1099.087	
1.00000	2.211676	50.826521	2.239059
107.814441	1.976232	1088.045	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.337129	-18.704590	-2.778920
-46.677767	-35.666389	-472.628552	
0.25000	-1.337129	-18.626376	-2.778920
-46.499401	-34.523360	-501.934879	
0.50000	-1.337129	-18.551429	-2.778920
-46.328157	-33.752567	-531.221477	
0.75000	-1.337129	-18.481079	-2.778920
-46.168297	-33.950801	-560.500632	
1.00000	-1.337129	-18.416827	-2.778920
-46.023772	-34.483840	-589.808186	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.194207	139.667108	3.236609
240.607921	15.238325	2653.962	
0.25000	4.194207	139.674148	3.236609
240.621768	15.216514	2607.140	
0.50000	4.194207	139.681748	3.236609
240.637163	15.479264	2569.549	
0.75000	4.194207	139.689770	3.236609
240.653704	16.032453	2545.502	
1.00000	4.194207	139.698035	3.236609
240.670958	16.982694	2532.100	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1406

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.305153	-64.268230	-3.107963
-170.733014	-32.181281	-948.700777	
0.25000	-2.305153	-64.260406	-3.107963
-170.715153	-31.666265	-1011.262	
0.50000	-2.305153	-64.252909	-3.107963
-170.698006	-31.854706	-1073.816	
0.75000	-2.305153	-64.245872	-3.107963
-170.681999	-32.862425	-1136.400	
1.00000	-2.305153	-64.239445	-3.107963
-170.667526	-34.386807	-1198.894	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.890381	149.250142	4.544487
284.569652	18.159283	3073.335	
0.25000	5.890381	149.256478	4.544487
284.582115	19.337381	3028.577	
0.50000	5.890381	149.263318	4.544487
284.595970	20.803446	2992.062	
0.75000	5.890381	149.270538	4.544487
284.610857	22.514076	2967.743	
1.00000	5.890381	149.277976	4.544487
284.626386	24.684421	2953.185	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.713835	-65.485315	-5.747250
-160.398737	-78.345126	-1286.398	
0.25000	-3.713835	-65.478273	-5.747250
-160.382662	-76.729152	-1364.733	
0.50000	-3.713835	-65.471526	-5.747250
-160.367230	-75.981771	-1443.074	
0.75000	-3.713835	-65.465192	-5.747250
-160.352823	-76.221081	-1521.426	
1.00000	-3.713835	-65.459498	-5.747250
-160.339798	-77.168452	-1599.686	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.697514	236.523449	6.712874
249.786227	62.493974	4081.350	
0.25000	7.697514	252.070688	6.712874
259.273915	62.109013	4069.030	
0.50000	7.697514	268.798763	6.712874
280.024130	62.130150	4034.693	
0.75000	7.697514	286.390258	6.712874
302.571098	62.568295	3980.386	
1.00000	7.697514	304.404761	6.712874
325.886872	63.574948	3905.463	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.350648	-191.857341	-6.140911
-292.181879	-70.782699	-1435.262	
0.25000	-5.350648	-174.973105	-6.140911
-266.597997	-70.402834	-1527.719	
0.50000	-5.350648	-158.683316	-6.140911
-241.759326	-70.730305	-1620.205	
0.75000	-5.350648	-143.376414	-6.140911
-218.692680	-71.867991	-1712.578	
1.00000	-5.350648	-129.337420	-6.140911
-204.012172	-73.591957	-1805.231	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.727321	177.625356	5.077656
107.079487	80.759134	2420.827	
0.25000	4.727321	197.426895	5.077656
107.079487	78.105642	2443.517	
0.50000	4.727321	218.666946	5.077656
107.079446	75.962992	2430.779	
0.75000	4.727321	240.888738	5.077656
106.491354	74.436239	2382.833	
1.00000	4.727321	263.475804	5.077656
104.812371	73.426416	2300.560	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1407

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.841489	-196.641489	-2.389554
-217.479985	-9.630472	-559.639412	
0.25000	-3.841489	-175.715423	-2.389554
-221.870089	-11.322095	-601.600308	
0.50000	-3.841489	-155.402402	-2.389554
-226.260159	-13.032287	-643.674116	
0.75000	-3.841489	-136.209641	-2.389554
-230.062171	-14.739956	-685.745336	
1.00000	-3.841489	-118.586789	-2.389554
-232.773291	-16.467357	-727.978093	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.952348	274.855430	7.023969
207.101958	111.484441	3882.991	
0.25000	6.952348	297.738701	7.023969
207.101958	108.099188	3877.829	
0.50000	6.952348	322.283554	7.023969
207.101958	105.243762	3841.640	
0.75000	6.952348	347.999318	7.023969
207.101958	103.064762	3780.303	
1.00000	6.952348	374.184012	7.023969
206.844063	101.458145	3689.390	

COMB DL-G3-2 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.303676 -266.060164   -3.389710
-338.385342  -14.755626 -991.302672
 0.25000   -5.303676 -241.744891   -3.389710
-338.871032  -16.969563   -1064.177
 0.50000   -5.303676 -218.157361   -3.389710
-339.356723  -19.205266   -1137.236
 0.75000   -5.303676 -195.925190   -3.389710
-339.842413  -21.477710   -1210.280
 1.00000   -5.303676 -175.486675   -3.389710
-340.070187  -23.749452   -1283.490

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.873074  296.739904    7.339207
278.024115   95.188803    4580.054
 0.25000    7.873074  317.710475    7.339207
278.024115   92.585072    4564.912
 0.50000    7.873074  340.205027    7.339207
278.024115   90.548412    4520.923
 0.75000    7.873074  363.776189    7.339207
278.024115   89.264881    4452.312
 1.00000    7.873074  387.782272    7.339207
278.073457   88.737316    4356.940

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.501674 -259.178053   -4.294571
-351.707308  -25.898544   -1299.422
 0.25000   -5.501674 -236.878283   -4.294571
-351.622742  -27.511825   -1391.165
 0.50000   -5.501674 -215.250071   -4.294571
-351.538176  -29.555017   -1483.036
 0.75000   -5.501674 -194.866998   -4.294571
-351.453610  -32.244723   -1574.909
 1.00000   -5.501674 -176.128717   -4.294571
-351.418383  -35.262636   -1666.918

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.328186  270.413196    7.749982
293.577104   81.359239    4450.967
 0.25000    8.328186  287.895004    7.749982
293.577104   79.723070    4434.407
 0.50000    8.328186  306.647301    7.749982
293.577104   78.617957    4393.936
 0.75000    8.328186  326.297217    7.749982
293.577104   78.190627    4332.869
 1.00000    8.328186  346.309869    7.749982
293.628695   78.447798    4249.508
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<               MOVING          LOAD              >
                                1408

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.871289 -223.217964   -6.120314
-303.279275  -91.402498   -1448.089
 0.25000   -5.871289 -204.627526   -6.120314
-303.191162  -61.667639   -1544.374
 0.50000   -5.871289 -186.597076   -6.120314
-303.103050  -62.567022   -1640.748
 0.75000   -5.871289 -169.604721   -6.120314
-303.014937  -64.336918   -1737.128
 1.00000   -5.871289 -153.983557   -6.120314
-302.978412  -66.654635   -1833.628

 COMB       DB ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.944857  302.843382    7.450417
318.162335   98.436959    4545.019
 0.25000    4.944857  329.147605    7.450417
318.162335   94.104211    4497.492
 0.50000    4.944857  357.148875    7.450417
327.942868   90.998244    4432.867
 0.75000    4.944857  386.320267    7.450417
354.216694   89.302634    4350.867
 1.00000    4.944857  418.149722    7.450417
384.441821   88.885201    4245.340

 COMB       DB ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.175215 -331.036544   -6.247080
-376.392431  -91.767740   -1076.377
 0.25000   -4.175215 -298.877163   -6.247080
-376.392431  -88.561055   -1148.741
 0.50000   -4.175215 -267.858515   -6.247080
-376.392431  -86.601237   -1221.108
 0.75000   -4.175215 -238.564219   -6.247080
-376.392431  -85.974265   -1293.481
 1.00000   -4.175215 -211.561641   -6.247080
-376.392431  -86.605551   -1365.854

 COMB       DL ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.328186  296.739904    7.749982
293.577104  111.484441    4580.054
 0.25000    8.328186  317.710475    7.749982
294.954935  108.099188    4564.912
 0.50000    8.328186  340.205027    7.749982
313.912524  105.243762    4520.923
 0.75000    8.328186  363.776189    7.749982
334.349631  103.064762    4452.312
 1.00000    8.328186  387.782272    7.749982
355.615330  101.458145    4356.940

 COMB       DL ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.871289 -266.060164   -6.549978
-351.707308 -104.188016   -1448.089
 0.25000   -5.871289 -241.744891   -6.549978
-351.622742 -101.655934   -1544.374
 0.50000   -5.871289 -218.157361   -6.549978
-351.538176  -99.771366   -1640.748
 0.75000   -5.871289 -195.925190   -6.549978
-351.453610  -98.844884   -1737.128
 1.00000   -5.871289 -176.128717   -6.549978
-351.418383  -98.579255   -1833.628

 COMB       CAR ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.328186  302.843382    7.749982
318.162335  111.484441    4580.054
 0.25000    8.328186  329.147605    7.749982
318.162335  108.099188    4564.912
 0.50000    8.328186  357.148875    7.749982
327.942868  105.243762    4520.923
 0.75000    8.328186  386.320267    7.749982
354.216694  103.064762    4452.312
 1.00000    8.328186  418.149722    7.749982
384.441821  101.458145    4356.940
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<               MOVING          LOAD              >
                                1409

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       CAR ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.871289 -331.036544   -6.549978
-376.392431 -104.188016   -1448.089
 0.25000   -5.871289 -298.877163   -6.549978
-376.392431 -101.655934   -1544.374
 0.50000   -5.871289 -267.858515   -6.549978
-376.392431  -99.771366   -1640.748
 0.75000   -5.871289 -238.564219   -6.549978
-376.392431  -98.844884   -1737.128
 1.00000   -5.871289 -211.561641   -6.549978
-376.392431  -98.579255   -1833.628

 COMB   DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.328186  302.843382    7.749982
318.162335  111.484441    4580.054
 0.25000    8.328186  329.147605    7.749982
318.162335  108.099188    4564.912
 0.50000    8.328186  357.148875    7.749982
327.942868  105.243762    4520.923
 0.75000    8.328186  386.320267    7.749982
354.216694  103.064762    4452.312
 1.00000    8.328186  418.149722    7.749982
384.441821  101.458145    4356.940

 COMB   DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.871289 -331.036544   -6.549978
-376.392431 -104.188016   -1448.089
 0.25000   -5.871289 -298.877163   -6.549978
-376.392431 -101.655934   -1544.374
 0.50000   -5.871289 -267.858515   -6.549978
-376.392431  -99.771366   -1640.748
 0.75000   -5.871289 -238.564219   -6.549978
-376.392431  -98.844884   -1737.128
 1.00000   -5.871289 -211.561641   -6.549978
-376.392431  -98.579255   -1833.628

 ELEM      112 ================== LENGTH
=    4.928122

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.761615   27.485389    0.592936
159.272103   14.741683   574.434129
 0.25000    1.761615   27.498203    0.592936
159.298571   17.013953   543.394107
 0.50000    1.761615   27.511725    0.592936
159.329398   19.300765   512.567538
 0.75000    1.761615   27.525746    0.592936
159.361678   21.592287   482.212273
 1.00000    1.761615   27.541444    0.592936
159.399854   23.893871   452.400479

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.081200   -5.550703   -4.561612
-8.931097  -53.251467  -435.060236
 0.25000   -2.081200   -5.535130   -4.561612
-8.891514  -49.097976  -444.928120
 0.50000   -2.081200   -5.521408   -4.561612
-8.857822  -45.409770  -454.967480
 0.75000   -2.081200   -5.508384   -4.561612
-8.825847  -42.275110  -465.086250
 1.00000   -2.081200   -5.496259   -4.561612
-8.796112  -39.723016  -475.205021

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.969073   67.371002    1.945589
301.340198   16.866931    1238.997
 0.25000    2.969073   67.383812    1.945589
301.366468   19.768749    1167.703
 0.50000    2.969073   67.397329    1.945589
301.397249   22.727161    1098.118
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<               MOVING          LOAD              >
                                1410

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000    2.969073   67.411345    1.945589
301.429483   25.728278    1092.994
 1.00000    2.969073   67.427035    1.945589
301.467561   28.838786   966.768294

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.407306  -10.933272   -7.510591
-14.416389  -87.025285  -810.656076
 0.25000   -3.407306  -10.917708   -7.510591
-14.376867  -80.935761  -835.092035
 0.50000   -3.407306  -10.903990   -7.510591
-14.343223  -75.943110  -859.676604
 0.75000   -3.407306  -10.890971   -7.510591
-14.311296  -72.234087  -884.422187
 1.00000   -3.407306  -10.878851   -7.510591
-14.281609  -69.814508  -909.167771

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    3.843625  132.913844    2.390649
411.535112   16.895040    2163.979
 0.25000    3.843625  132.925374    2.390649
411.558800   19.661215    2030.633
 0.50000    3.843625  132.937540    2.390649
411.586513   22.492397    1906.178
 0.75000    3.843625  132.950156    2.390649
411.615534   25.408839    1793.614
 1.00000    3.843625  132.964279    2.390649
411.649826   28.401535    1694.841

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.552496  -18.932698   -7.082183
-71.582960  -80.447383  -1145.464
 0.25000   -3.552496  -18.918689   -7.082183
-71.547376  -75.042606  -1192.503
 0.50000   -3.552496  -18.906342   -7.082183
-71.517086  -70.884381  -1235.667
 0.75000   -3.552496  -18.894624   -7.082183
-71.488341  -68.043478  -1280.984
 1.00000   -3.552496  -18.883714   -7.082183
-71.461612  -66.460277  -1326.301

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.581516  237.519582    4.513690
391.137606   42.797241    3152.396
 0.25000    4.581516  249.514221    4.513690
407.903846   43.087614    3003.060
 0.50000    4.581516  262.197145    4.513690
425.390698   43.743039    2850.209
 0.75000    4.581516  275.360951    4.513690
449.184342   44.849745    2699.603
 1.00000    4.581516  289.792454    4.513690
479.959123   46.468669    2550.443

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.369220 -128.105702   -6.477072
-291.514070  -73.333844   -1312.284
 0.25000   -4.369220 -113.800405   -6.477072
-259.140624  -69.744605   -1374.276
 0.50000   -4.369220 -100.936151   -6.477072
-231.192171  -67.199606   -1436.397
 0.75000   -4.369220  -88.747399   -6.477072
-204.883743  -65.748906   -1498.650
 1.00000   -4.369220  -77.433282   -6.477072
-181.456026  -65.353179   -1560.902

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.357411   58.797142    1.575683
168.074210   1.289335   915.685013
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<               MOVING          LOAD              >
                                1411

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000    1.357411   58.938060    1.575683
168.363726   1.613398   858.886533
 0.50000    1.357411   59.086761    1.575683
168.702444   1.983075   805.038006
 0.75000    1.357411   59.240953    1.575683
169.057142   2.370801   755.054469
 1.00000    1.357411   59.413562    1.575683
169.476272   3.076737   709.113808

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.254604   -6.838302   -2.665901
-18.390431  -29.406421  -452.310541
 0.25000   -1.254604   -6.667075   -2.665901
-17.955521  -27.974351  -472.709481
 0.50000   -1.254604   -6.516170   -2.665901
-17.585307  -27.149454  -493.117137
 0.75000   -1.254604   -6.372947   -2.665901
-17.233978  -27.062548  -513.524801
 1.00000   -1.254604   -6.239609   -2.665901
-16.907287  -27.710388  -533.932500

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.700947  161.447884    2.622104
316.314545   11.945406    2256.895
 0.25000    2.700947  161.460695    2.622104
316.340965   11.752595    2104.262
 0.50000    2.700947  161.474213    2.622104
316.371657   11.716500    1971.654
 0.75000    2.700947  161.488231    2.622104
316.403903   11.865601    1868.267
 1.00000    2.700947  161.503923    2.622104
316.442005   12.243602    1792.799

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.951451  -33.747982   -2.648887
-138.128593 -27.877371  -911.013282
 0.25000   -1.951451  -33.732416   -2.648887
-138.089056 -27.999765  -959.138162
 0.50000   -1.951451  -33.718697   -2.648887
-138.055400 -27.903373  -1007.294
 0.75000   -1.951451  -33.705677   -2.648887
-138.023461 -28.568560  -1055.455
 1.00000   -1.951451  -33.693555   -2.648887
-137.993762  -29.900394  -1103.616

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    3.785194  170.367251    3.094756
414.635835   18.836842    2530.992
 0.25000    3.785194  170.378780    3.094756
414.659523   20.252863    2365.533
 0.50000    3.785194  170.390947    3.094756
414.687236   21.807052    2218.340
 0.75000    3.785194  170.403563    3.094756
414.716257   23.512675   2091.587
 1.00000    3.785194  170.417685    3.094756
414.750549   25.450836    2003.088

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.344220  -34.784642   -5.849883
-128.060563  -66.667875   -1173.863
 0.25000   -3.344220  -34.770632   -5.849883
-128.024980  -62.958130   -1226.674
 0.50000   -3.344220  -34.758286   -5.849883
-127.994689  -60.361173   -1279.524
 0.75000   -3.344220  -34.746567   -5.849883
-127.965944  -58.981540   -1332.489
 1.00000   -3.344220  -34.735658   -5.849883
-127.939215  -58.743131   -1385.517
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<               MOVING          LOAD              >
                                1412

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.894187  288.107714    6.002256
347.066071   54.310648    3601.148
 0.25000    4.894187  306.537990    6.002256
347.066071   52.713335    3454.371
 0.50000    4.894187  326.080030    6.002256
357.824885   51.723338    3293.521
 0.75000    4.894187  346.389378    6.002256
379.409777   51.456609    3122.960
 1.00000    4.894187  368.015616    6.002256
399.849098   51.959554    2942.417

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.629558 -183.830680   -5.684718
-321.334213  -62.813918   -1341.332
 0.25000   -4.629558 -162.421181   -5.684718
-299.980658  -60.944252   -1411.278
 0.50000   -4.629558 -142.613650   -5.684718
-277.536383  -60.003144   -1481.290
 0.75000   -4.629558 -123.889479   -5.684718
-253.161660  -60.085582   -1551.398
 1.00000   -4.629558 -106.579231   -5.684718
-244.066067  -61.113427   -1621.558

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    3.068095  229.976142    5.986641
38.558879   67.119103    2373.127
 0.25000    3.068095  253.583931    5.986641
38.558879   62.208576    2338.311
 0.50000    3.068095  278.767168    5.986641
38.558879   58.284108    2271.047
 0.75000    3.068095  305.003611    5.986641
38.558879   55.357044    2168.530
 1.00000    3.068095  331.337730    5.986641
38.558879   53.484346    2031.404

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.177990  -220.224619   -1.501791
-351.397854  -12.627554   -557.696230
 0.25000   -3.177990  -194.207729   -1.501791
-351.397854  -14.735915   -598.175034
 0.50000   -3.177990  -168.719715   -1.501791
-351.397854  -16.855796   -638.760606
 0.75000   -3.177990  -144.733164   -1.501791
-351.397854  -18.976505   -679.351037
 1.00000   -3.177990  -122.748361   -1.501791
-351.397854  -21.099935   -719.941502

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.403063  346.257116    7.839337
130.371589   88.495373    3741.863
 0.25000    4.403063  374.456940    7.839337
130.371589   82.000094    3629.309
 0.50000    4.403063  404.472782    7.839337
130.371589   76.694862    3494.471
 0.75000    4.403063  435.723628    7.839337
130.371589   72.743219    3340.200
 1.00000    4.403063  467.640462    7.839337
130.371589   70.203716    3162.412

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.339913  -284.946271   -1.919089
-469.430848  -18.769867   -973.250017
 0.25000   -4.339913  -253.391891   -1.919089
-469.430848  -21.564999   -1040.325
 0.50000   -4.339913  -222.997788   -1.919089
-469.430848  -24.385945   -1107.543
 0.75000   -4.339913  -194.358663   -1.919089
-469.430848  -27.229234   -1174.767
 1.00000   -4.339913  -168.031831   -1.919089
-469.430848  -30.085454   -1241.992
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<               MOVING          LOAD              >
                                1413

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.103807  368.713281    7.895690
256.264074   77.329903    4245.821
 0.25000    5.103807  394.578709    7.895690
256.264074   74.089375    4092.100
 0.50000    5.103807  422.103739    7.895690
256.264074   67.903709    3918.124
 0.75000    5.103807  450.759407    7.895690
256.264074   64.941938    3729.351
 1.00000    5.103807  480.076683    7.895690
256.264074   63.233609    3525.129

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.517434  -261.915678   -2.915393
-441.443070  -27.662934   -1274.235
 0.25000   -4.517434  -232.929331   -2.915393
-441.443070  -29.614540   -1354.385
 0.50000   -4.517434  -205.056041   -2.915393
-441.443070  -32.042623   -1434.659
 0.75000   -4.517434  -178.788891   -2.915393
-441.443070  -34.897491   -1514.937
 1.00000   -4.517434  -154.135339   -2.915393
-441.443070  -38.126047   -1595.215

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.326508  332.727287    7.460765
326.945333   68.374875    4007.997
 0.25000    5.326508  354.292420    7.460765
326.945333   64.970040    3852.714
 0.50000    5.326508  377.241033    7.460765
326.945333   62.447415    3680.985
 0.75000    5.326508  401.132236    7.460765
326.945333   60.960968    3491.499
 1.00000    5.326508  425.576739    7.460765
326.945333   60.522394    3301.617

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.005884  -222.156471   -5.170054
-370.513954  -55.107445   -1365.812
 0.25000   -5.005884  -197.987827   -5.170054
-370.513954  -54.645135   -1442.386
 0.50000   -5.005884  -174.748811   -5.170054
-370.513954  -55.056099   -1519.067
 0.75000   -5.005884  -152.848786   -5.170054
-370.513954  -56.380935   -1595.779
 1.00000   -5.005884  -132.710717   -5.170054
-370.513954  -58.534142   -1672.549

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    3.055622   40.444312    0.493819
184.189463   18.707143   785.695454
 0.25000    3.055622   40.451602    0.493819
184.202904   21.449823   759.178841
 0.50000    3.055622   40.459439    0.493819
184.217892   24.212324   732.679372
 0.75000    3.055622   40.467688    0.493819
184.234032   26.987841   706.241860
 1.00000    3.055622   40.476162    0.493819
184.250913   29.784052   680.107112

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.647654   -7.965069   -6.000114
-11.889217  -60.303165  -581.522227
 0.25000   -2.647654   -7.957591   -6.000114
-11.870578  -55.642326  -595.922834
 0.50000   -2.647654   -7.950431   -6.000114
-11.852677  -51.159819  -610.327668
 0.75000   -2.647654   -7.943743   -6.000114
-11.835942  -46.957011  -624.816788
 1.00000   -2.647654   -7.937665   -6.000114
-11.821743  -43.037451  -639.303528
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<               MOVING          LOAD              >
                                1414

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.200577   94.799385    1.610938
338.739463   21.086707    1620.690
 0.25000    5.200577   94.806672    1.610938
338.752875   24.575699    1557.059
 0.50000    5.200577   94.814507    1.610938
338.767632   28.121753    1494.297
 0.75000    5.200577   94.822753    1.610938
338.783941   31.790594    1432.920
 1.00000    5.200577   94.831224    1.610938
338.800785   35.709878    1372.350

 COMB DL-G1-2 ------------------- MIN
```

```
 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.327654  -15.171604   -9.335190
-17.571254  -99.819208   -1076.144
 0.25000   -4.327654  -15.164129   -9.335190
-17.552646  -92.697967   -1110.243
 0.50000   -4.327654  -15.156973   -9.335190
-17.534774  -86.125801   -1144.321
 0.75000   -4.327654  -15.150287   -9.335190
-17.518066  -80.501371   -1178.512
 1.00000   -4.327654  -15.144212   -9.335190
-17.502892  -75.622233   -1212.716

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   6.243137  176.357130    2.075716
437.216623  22.746917   2684.004
 0.25000   6.243137  176.566986    2.075716
437.602674  26.063589   2568.012
 0.50000   6.243137  176.792609    2.075716
438.033195  29.466893   2453.609
 0.75000   6.243137  177.030070    2.075716
438.496900  33.016421   2343.192
 1.00000   6.243137  177.274019    2.075716
438.981763  36.762114   2237.563

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -4.657950  -28.488324   -8.648238
-68.194770  -93.100950   -1533.046
 0.25000  -4.657950  -28.273069   -8.648238
-67.659039  -87.248631   -1594.919
 0.50000  -4.657950  -28.067000   -8.648238
-67.144558  -81.996212   -1656.769
 0.75000  -4.657950  -27.874476   -8.648238
-66.663553  -77.182280   -1718.667
 1.00000  -4.657950  -27.699524   -8.648238
-66.226735  -73.901984   -1780.646

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   7.648998  267.967165    4.678819
406.624056  52.657130   3521.641
 0.25000   7.648998  278.606277    4.678819
422.695705  53.280408   3394.282
 0.50000   7.648998  290.026236    4.678819
440.857568  54.106557   3253.137
 0.75000   7.648998  302.024117    4.678819
460.489761  55.143971   3104.500
 1.00000   7.648998  314.320720    4.678819
480.980451  56.385574   2946.130

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -5.850835 -113.317291   -7.685323
-266.587541  -85.619184   -1729.507
 0.25000  -5.850835 -102.549077   -7.685323
-242.887749  -81.783297   -1811.575
 0.50000  -5.850835  -92.216349   -7.685323
-220.053322  -78.457102   -1893.546
 0.75000  -5.850835  -82.551391   -7.685323
-198.719917  -75.832829   -1975.692
 1.00000  -5.850835  -73.758624   -7.685323
-179.443936  -73.821525   -2057.854
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1415

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   2.220976   74.816112    1.305722
171.717382   1.729785   1087.675
 0.25000   2.220976   74.888984    1.305722
171.851500   2.147909   1037.521
 0.50000   2.220976   74.967332    1.305722
172.001065   2.641754   988.531918
 0.75000   2.220976   75.049701    1.305722
172.162156   3.068840   941.440366
 1.00000   2.220976   75.134504    1.305722
172.330599   4.318391   894.832350

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -1.600468   -9.503104   -2.875460
-14.017538  -34.661139  -589.880806
 0.25000   -1.600468   -9.428354   -2.875460
-13.831451  -32.564705  -616.682571
 0.50000   -1.600468   -9.356794   -2.875460
-13.652739  -30.987389  -643.515461
 0.75000   -1.600468   -9.289938   -2.875460
-13.485655  -30.343884  -670.335790
 1.00000   -1.600468   -9.229185   -2.875460
-13.333918  -30.092176  -697.169040

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   4.132903  193.122551    2.539650
308.091562  16.460464   2531.605
 0.25000   4.132903  193.129840    2.539650
308.104995  16.451583   2404.049
 0.50000   4.132903  193.137677    2.539650
308.119975  16.523818   2283.265
 0.75000   4.132903  193.145925    2.539650
308.136107  16.749935   2177.814
 1.00000   4.132903  193.154399    2.539650
308.152980  17.176554   2083.557

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -2.651271  -38.463615   -2.765062
-115.740860  -34.698255   -1198.913
 0.25000   -2.651271  -38.456137   -2.765062
-115.722228  -33.886421   -1262.087
 0.50000   -2.651271  -38.448979   -2.765062
-115.704335  -33.548693   -1325.272
 0.75000   -2.651271  -38.442291   -2.765062
-115.687606  -33.851555   -1388.377
 1.00000   -2.651271  -38.436214   -2.765062
-115.672413  -34.585829   -1451.563

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   6.100298  211.043555    2.869912
425.745297  24.722307   2952.372
 0.25000   6.100298  211.050115    2.869912
425.757388  26.551993   2812.468
 0.50000   6.100298  211.057169    2.869912
425.770869  28.454020   2678.768
 0.75000   6.100298  211.064592    2.869912
425.785388  30.499522   2559.004
 1.00000   6.100298  211.072218    2.869912
425.800573  32.739877   2449.435

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -4.394905  -41.011176   -6.883622
-109.204707  -78.142069   -1599.801
 0.25000  -4.394905  -41.004446   -6.883622
-109.187939  -74.099830   -1670.452
 0.50000  -4.394905  -40.998004   -6.883622
-109.171835  -70.643821   -1765.967
 0.75000  -4.394905  -40.991985   -6.883622
-109.156779  -67.983006   -1837.457
 1.00000  -4.394905  -40.986515   -6.883622
-109.143106  -65.954965   -1909.079
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1416

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   8.184905  312.178646    6.392901
355.413921  64.016713   3905.132
 0.25000   8.184905  328.338220    6.392901
355.421857  62.531913   3776.482
 0.50000   8.184905  345.655152    6.392901
367.213023  61.328435   3624.669
 0.75000   8.184905  363.795230    6.392901
388.054184  60.453743   3454.619
 1.00000   8.184905  382.412469    6.392901
409.710989  59.927105   3265.047

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -6.281800 -154.846872   -6.356430
-319.183478  -75.150008   -1805.232
 0.25000  -6.281800 -138.789612   -6.356430
-292.049452  -73.243988   -1897.216
 0.50000  -6.281800 -123.355604   -6.356430
-264.880736  -71.823673   -2009.863
 0.75000  -6.281800 -108.829880   -6.356430
-239.535921  -71.060540   -2102.541
 1.00000  -6.281800  -95.715336   -6.356430
-226.780069  -70.825333   -2195.318

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   5.270031  215.927211    6.996843
33.217287  74.201215   2301.280
 0.25000   5.270031  236.605375    6.996843
33.217287  68.778233   2265.317
 0.50000   5.270031  258.670434    6.996843
33.217287  63.754477   2195.014
 0.75000   5.270031  281.671687    6.996843
33.217287  59.361273   2090.065
 1.00000   5.270031  305.124348    6.996843
33.217287  55.526957   1952.014

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -4.479310 -170.877626   -1.157405
-330.842210  -17.769985   -727.837820
 0.25000  -4.479310 -151.132819   -1.157405
-335.232715  -20.303018   -780.128998
 0.50000  -4.479310 -132.009892   -1.157405
-339.622541  -22.848942   -831.860573
 0.75000  -4.479310 -114.035140   -1.157405
-344.013725  -25.381968   -883.394233
 1.00000  -4.479310  -97.636423   -1.157405
-348.404230  -27.944529   -935.343802

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   7.548051  339.814041    9.302157
126.617537  102.207961   3690.131
 0.25000   7.548051  363.671169    9.302157
126.617537  95.162919   3588.169
 0.50000   7.548051  389.158875    9.302157
126.617537  88.595041   3452.271
 0.75000   7.548051  415.753556    9.302157
126.617537  82.693093   3293.664
 1.00000   7.548051  442.904184    9.302157
126.617537  77.369852   3107.581

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -6.114538 -224.623181   -1.569192
-453.197377  -25.399935   -1283.298
 0.25000  -6.114538 -201.631402   -1.569192
-453.683112  -28.737671   -1370.097
 0.50000  -6.114538 -179.397406   -1.569192
-454.168079  -32.100072   -1463.203
 0.75000  -6.114538 -158.518980   -1.569192
-454.654582  -35.469520   -1550.084
 1.00000  -6.114538 -139.468128   -1.569192
-455.140317  -38.838808   -1637.469
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1417

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   8.334790  377.800677    8.939659
248.595836  88.991986   4357.311
 0.25000   8.334790  399.659358    8.939659
248.595836  83.366817   4218.872
 0.50000   8.334790  423.016424    8.939659
248.595836  78.264480   4050.636
 0.75000   8.334790  447.390542    8.939659
248.595836  73.748026   3859.750
 1.00000   8.334790  472.279114    8.939659
248.595836  69.776349   3643.524

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -6.359682 -210.951433   -2.611977
-422.196740  -36.731417   -1666.768
 0.25000  -6.359682 -189.860981   -2.611977
-422.112167  -39.226768   -1770.105
 0.50000  -6.359682 -169.468869   -2.611977
-422.026891  -42.063250   -1873.419
 0.75000  -6.359682 -150.322481   -2.611977
-421.943019  -45.305353   -1976.514
 1.00000  -6.359682 -132.851905   -2.611977
-421.858446  -48.737905   -2080.139

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   8.866779  351.807805    8.172720
334.842570  78.963539   4249.505
 0.25000   8.866779  370.029881    8.172720
334.842570  75.407429   4109.049
 0.50000   8.866779  389.501112    8.172720
334.842570  72.284419   3943.841
 0.75000   8.866779  409.820316    8.172720
334.842570  69.723956   3760.131
 1.00000   8.866779  430.568553    8.172720
334.842570  67.711374   3555.479

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -6.872390 -181.231481   -5.497544
-354.893980  -68.354527   -1833.583
 0.25000  -6.872390 -163.648777   -5.497544
-354.805859  -67.983399   -1936.517
 0.50000  -6.872390 -146.648919   -5.497544
-354.717153  -68.133258   -2037.519
 0.75000  -6.872390 -130.687378   -5.497544
-354.629618  -68.952012   -2138.329
 1.00000  -6.872390 -116.122886   -5.497544
-354.541497  -70.249572   -2239.592

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   5.326508  368.713281    7.895690
414.635835  88.495373   4245.821
 0.25000   5.326508  394.578709    7.895690
414.559523  82.000094   4092.100
 0.50000   5.326508  422.103739    7.895690
425.390698  76.694862   3918.124
 0.75000   5.326508  450.759407    7.895690
449.184342  72.743219   3729.351
 1.00000   5.326508  480.076683    7.895690
479.959123  70.203716   3525.129

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -5.005884 -284.946271   -7.510591
-469.430848  -87.025285   -1365.812
 0.25000  -5.005884 -253.391891   -7.510591
-469.430848  -80.935761   -1442.386
 0.50000  -5.005884 -222.997788   -7.510591
-469.430848  -75.943110   -1519.067
 0.75000  -5.005884 -194.358663   -7.510591
-469.430848  -72.234087   -1595.779
 1.00000  -5.005884 -168.031831   -7.510591
-469.430848  -69.814508   -1672.549
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1418

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   8.866779  377.800677    9.302157
437.216623  102.207961   4357.311
 0.25000   8.866779  399.659358    9.302157
437.602674  95.162919   4218.872
 0.50000   8.866779  423.016424    9.302157
440.857568  88.595041   4050.636
 0.75000   8.866779  447.390542    9.302157
460.489761  82.693093   3859.750
 1.00000   8.866779  472.279114    9.302157
480.980451  77.369852   3643.524

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -6.872390 -224.623181   -9.335190
-453.197377  -99.819208   -1833.583
 0.25000  -6.872390 -201.631402   -9.335190
-453.683112  -92.697967   -1936.517
 0.50000  -6.872390 -179.397406   -9.335190
-454.168079  -86.125801   -2037.519
 0.75000  -6.872390 -158.518980   -9.335190
-454.654582  -80.501371   -2138.329
 1.00000  -6.872390 -139.468128   -9.335190
-455.140317  -75.622233   -2239.592

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   8.866779  377.800677    9.302157
437.216623  102.207961   4357.311
 0.25000   8.866779  399.659358    9.302157
437.602674  95.162919   4218.872
 0.50000   8.866779  423.016424    9.302157
440.857568  88.595041   4050.636
 0.75000   8.866779  450.759407    9.302157
460.489761  82.693093   3859.750
 1.00000   8.866779  480.076683    9.302157
480.980451  77.369852   3643.524

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -6.872390 -284.946271   -9.335190
-469.430848  -99.819208   -1833.583
 0.25000  -6.872390 -253.391891   -9.335190
-469.430848  -92.697967   -1936.517
 0.50000  -6.872390 -222.997788   -9.335190
-469.430848  -86.125801   -2037.519
 0.75000  -6.872390 -194.358663   -9.335190
-469.430848  -80.501371   -2138.329
 1.00000  -6.872390 -168.031831   -9.335190
-469.430848  -75.622233   -2239.592

 COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   8.866779  377.800677    9.302157
437.216623  102.207961   4357.311
 0.25000   8.866779  399.659358    9.302157
437.602674  95.162919   4218.872
 0.50000   8.866779  423.016424    9.302157
440.857568  88.595041   4050.636
 0.75000   8.866779  450.759407    9.302157
460.489761  82.693093   3859.750
 1.00000   8.866779  480.076683    9.302157
480.980451  77.369852   3643.524

 COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -6.872390 -284.946271   -9.335190
-469.430848  -99.819208   -1833.583
 0.25000  -6.872390 -253.391891   -9.335190
-469.430848  -92.697967   -1936.517
 0.50000  -6.872390 -222.997788   -9.335190
-469.430848  -86.125801   -2037.519
 0.75000  -6.872390 -194.358663   -9.335190
-469.430848  -80.501371   -2138.329
 1.00000  -6.872390 -168.031831   -9.335190
-469.430848  -75.622233   -2239.592
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1419

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      113 ================== LENGTH
=     4.928795

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   2.178006   38.042494    0.391008
226.736418  24.406891   451.550017
 0.25000   2.178006   38.055207    0.391008
226.757507  25.921037   407.431220
 0.50000   2.178006   38.068573    0.391008
226.778717  27.472559   364.006682
 0.75000   2.178006   38.082384    0.391008
226.821821  29.069551   321.432814
 1.00000   2.178006   38.097826    0.391008
226.860163  30.695277   279.981021

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -2.503811   -7.129953   -5.246383
-51.676725  -40.200109  -475.123521
 0.25000  -2.503811   -7.114677   -5.246383
-51.636360  -35.054483  -472.669621
 0.50000  -2.503811   -7.101282   -5.246383
-51.602059  -30.375669  -470.321105
 0.75000  -2.503811   -7.088605   -5.246383
-51.569444  -26.311926  -468.070369
 1.00000  -2.503811   -7.076834   -5.246383
-51.538920  -22.876960  -466.184031

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   3.621331   90.752224    0.142288
414.346743  29.612916   965.279174
 0.25000   3.621331   90.764932    0.142288
414.367799  32.587529   862.261517
 0.50000   3.621331   90.778294    0.142288
414.398778  35.852643   763.112577
 0.75000   3.621331   90.792100    0.142288
414.431836  39.299443   667.783255
 1.00000   3.621331   90.807534    0.142288
414.470119  42.845215   577.007118

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -4.098604  -11.326728   -8.985628
-75.123881  -70.688372  -909.060501
 0.25000  -4.098604  -11.311461   -8.985628
-75.083578  -62.086930  -914.776711
 0.50000  -4.098604  -11.298070   -8.985628
-75.049325  -54.356286  -920.710869
 0.75000  -4.098604  -11.285298   -8.985628
-75.016757  -47.715814  -926.689923
 1.00000  -4.098604  -11.273632   -8.985628
-74.986280  -42.074682  -933.169428

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   4.096794  172.522040    0.529368
526.399554  28.589439   1693.170
 0.25000   4.096794  172.533478    0.529368
526.418512  31.105851   1505.307
 0.50000   4.096794  172.545505    0.529368
526.446445  33.724090   1327.861
 0.75000   4.096794  172.557932    0.529368
526.476207  36.473971   1164.281
 1.00000   4.096794  172.571824    0.529368
526.510675  39.371349   1017.894

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -4.284197  -15.269364   -8.541518
-71.452046  -67.597865   -1326.191
 0.25000  -4.284197  -15.255622   -8.541518
-71.415759  -59.632759   -1354.239
 0.50000  -4.284197  -15.243569   -8.541518
-71.384921  -52.641529   -1382.493
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1420

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000  -4.284197  -15.232163   -8.541518
-71.355599  -46.796485   -1410.795
 1.00000  -4.284197  -15.221573   -8.541518
-71.328159  -42.063548   -1439.538

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   4.890288  291.759321    3.320452
488.098246  46.351493   2549.209
 0.25000   4.890288  303.663429    3.320452
495.645750  45.651062   2327.352
 0.50000   4.890288  316.205689    3.320452
513.440727  45.244996   2094.638
 0.75000   4.890288  329.177533    3.320452
531.190881  45.110155   1872.020
 1.00000   4.890288  343.370138    3.320452
561.887038  45.457081   1656.303

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -5.145179 -105.680913   -7.195403
-301.402994  -66.419943   -2138.832
 0.25000  -5.145179  -91.659313   -7.195403
-268.378478  -60.963396   -1615.250
 0.50000  -5.145179  -79.108856   -7.195403
-239.821356  -56.320017   -1669.891
 0.75000  -5.145179  -67.252741   -7.195403
-217.296301  -52.639750   -1724.650
 1.00000  -5.145179  -56.277946   -7.195403
-194.351078  -49.897780   -1779.780

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   1.392003   75.793052    0.067137
209.423718   3.006149   708.484265
 0.25000   1.392003   75.932850    0.067137
209.655421   3.980675   627.898922
 0.50000   1.392003   76.079844    0.067137
209.996826   5.088075   551.104238
 0.75000   1.392003   76.231729    0.067137
210.366592   6.356913   478.550901
 1.00000   1.392003   76.401518    0.067137
210.781864   8.095636   412.068966

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -1.511933   -6.419375   -3.476908
-20.330336  -28.147877   -533.911255
 0.25000  -1.511933   -6.251410   -3.476908
-19.886832  -25.197709   -549.314381
 0.50000  -1.511933   -6.104098   -3.476908
-19.509922  -22.549746   -564.718169
 0.75000  -1.511933   -5.964692   -3.476908
-19.151546  -20.446130   -580.156261
 1.00000  -1.511933   -5.835254   -3.476908
-18.816166  -18.613827   -595.662563

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   2.412140  201.003615    1.408613
360.822955  11.697118   1791.980
 0.25000   2.412140  201.029687    1.408613
360.844019  11.511084   1581.814
 0.50000   2.412140  201.029687    1.408613
360.875055  11.463371   1393.414
 0.75000   2.412140  201.043495    1.408613
360.908125  11.567677   1236.043
 1.00000   2.412140  201.058930    1.408613
360.946422  11.852056   1111.065

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -2.297253  -21.546509   -3.309779
-82.257297  -30.600206   -1103.586
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1421

 F R A M E   E L E M E N T   I N T E R N A
```

L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000		-2.297253	-21.531240	-3.309779
-82.216979		-28.303713	-1149.389	
0.50000		-2.297253	-21.517848	-3.309779
-82.182714		-26.483365	-1195.193	
0.75000		-2.297253	-21.505174	-3.309779
-82.150134		-25.239698	-1241.059	
1.00000		-2.297253	-21.493407	-3.309779
-82.119645		-24.481172	-1286.995	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.835878	215.503962	1.281352
508.350260		25.371784	2001.665	
0.25000		3.835878	215.515400	1.281352
508.369218		26.817081	1772.157	
0.50000		3.835878	215.527427	1.281352
508.397151		28.376454	1563.087	
0.75000		3.835878	215.539854	1.281352
508.426914		30.063770	1382.872	
1.00000		3.835878	215.553745	1.281352
508.461382		31.912434	1232.865	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-3.978676	-23.193136	-7.054044
-109.266190		-59.769367	-1385.438	
0.25000		-3.978676	-23.179394	-7.054044
-109.229903		-53.730345	-1427.007	
0.50000		-3.978676	-23.167341	-7.054044
-109.199065		-48.469654	-1468.687	
0.75000		-3.978676	-23.155935	-7.054044
-109.169743		-44.166215	-1510.519	
1.00000		-3.978676	-23.145345	-7.054044
-109.142303		-40.764281	-1552.396	

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.229755	349.543742	4.977745
443.193204		51.590061	2941.703	
0.25000		5.229755	367.844937	4.977745
443.193204		49.145020	2706.038	
0.50000		5.229755	387.180652	4.977745
443.193204		47.139035	2459.578	
0.75000		5.229755	407.204235	4.977745
444.205719		45.686126	2207.028	
1.00000		5.229755	428.466590	4.977745
465.023706		44.965215	1950.110	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.416156	-151.401460	-5.893681
-346.053779		-62.175137	-1621.538	
0.25000		-5.416156	-130.434918	-5.893681
-324.771332		-58.633022	-1691.119	
0.50000		-5.416156	-111.126331	-5.893681
-300.910617		-55.748848	-1760.858	
0.75000		-5.416156	-92.929568	-5.893681
-276.452477		-53.669199	-1830.859	
1.00000		-5.416156	-76.155986	-5.893681
-276.452477		-52.344995	-1900.926	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.543870	268.329200	6.794192
53.669935		53.005346	2032.609	
0.25000		3.543870	291.797559	6.794192
53.669935		46.746287	1941.223	
0.50000		3.543870	316.741239	6.794192
53.669935		41.301797	1819.490	
0.75000		3.543870	342.634931	6.794192
53.669935		36.729760	1665.120	
1.00000		3.543870	368.507805	6.794192
53.669935		33.110452	1478.907	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1422

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-3.630049	-183.586339	-0.309453
-431.546181		-21.466181	-720.035438	
0.25000		-3.630049	-158.176635	-0.309453
-431.546181		-23.876596	-776.188892	
0.50000		-3.630049	-133.370494	-0.309453
-431.546181		-25.247419	-832.393045	
0.75000		-3.630049	-110.112236	-0.309453
-431.546181		-28.699347	-888.851938	
1.00000		-3.630049	-88.842683	-0.309453
-431.546181		-31.112709	-945.363376	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.785814	406.695102	9.049329
161.434687		69.464888	3163.597	
0.25000		4.785814	434.718842	9.049329
161.434687		60.969967	2960.508	
0.50000		4.785814	464.440006	9.049329
161.434687		53.420524	2738.313	
0.75000		4.785814	495.273291	9.049329
161.434687		46.950893	2501.344	
1.00000		4.785814	526.637669	9.049329
161.434687		41.725795	2246.701	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.884731	-231.433690	-0.307159
-539.500357		-30.504135	-1242.088	
0.25000		-4.884731	-200.592663	-0.307159
-539.500357		-33.769560	-1329.498	
0.50000		-4.884731	-170.997894	-0.307159
-539.500357		-37.049764	-1416.980	
0.75000		-4.884731	-143.200611	-0.307159
-539.500357		-40.353388	-1504.741	
1.00000		-4.884731	-117.727637	-0.307159
-539.500357		-43.674487	-1592.559	

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.235537	439.205639	8.025573
311.600753		62.106966	3525.723	
0.25000		5.235537	464.908679	8.025573
311.600753		55.123488	3268.702	
0.50000		5.235537	492.162636	8.025573
311.600753		48.922612	2994.797	
0.75000		5.235537	520.434557	8.025573
311.600753		43.759094	2709.784	
1.00000		5.235537	549.244972	8.025573
311.600753		39.677416	2415.726	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.195585	-213.927407	-1.900093
-468.528587		-38.988046	-1595.286	
0.25000		-5.195585	-185.594258	-1.900093
-468.528587		-40.528513	-1691.064	
0.50000		-5.195585	-158.452731	-1.900093
-468.528587		-42.347829	-1786.911	
0.75000		-5.195585	-132.956351	-1.900093
-468.528587		-44.534625	-1883.046	
1.00000		-5.195585	-109.584712	-1.900093
-468.528587		-47.018131	-1979.234	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.695523	400.675577	6.709659
416.403202		59.937466	3301.541	
0.25000		5.695523	422.105290	6.709659
416.403202		55.600763	3047.391	
0.50000		5.695523	444.827872	6.709659
416.403202		51.962060	2780.492	
0.75000		5.695523	468.399104	6.709659
416.403202		49.217288	2505.726	
1.00000		5.695523	492.421010	6.709659
416.403202		47.384010	2224.838	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1423

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.824597	-181.640815	-4.935287
-413.893048		-59.587692	-1672.576	
0.25000		-5.824597	-158.016734	-4.935287
-413.893048		-57.663739	-1755.438	
0.50000		-5.824597	-135.387774	-4.935287
-413.893048		-56.291251	-1838.355	
0.75000		-5.824597	-114.130328	-4.935287
-413.893048		-55.581349	-1921.636	
1.00000		-5.824597	-94.644132	-4.935287
-413.893048		-55.484823	-2005.009	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.440910	47.156108	0.335675
273.809666		30.806934	679.210047	
0.25000		3.440910	47.163699	0.335675
273.823082		32.503778	636.672566	
0.50000		3.440910	47.171814	0.335675
273.838016		34.241617	594.255729	
0.75000		3.440910	47.180315	0.335675
273.854100		36.074037	552.220358	
1.00000		3.440910	47.189026	0.335675
273.870923		38.831164	510.655256	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-3.164901	-11.222415	-6.505695
-68.231242		-44.320203	-639.213691	
0.25000		-3.164901	-11.215330	-6.505695
-68.211094		-38.101188	-638.220549	
0.50000		-3.164901	-11.208571	-6.505695
-68.193776		-32.114280	-637.225613	
0.75000		-3.164901	-11.202306	-6.505695
-68.176631		-26.456631	-636.234220	
1.00000		-3.164901	-11.196649	-6.505695
-68.161094		-21.984670	-635.374300	

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.715647	114.195826	0.214691
495.717916		36.961908	1370.758	
0.25000		5.715647	114.203414	0.214691
495.731301		40.713362	1269.451	
0.50000		5.715647	114.211526	0.214691
495.746202		44.788682	1169.145	
0.75000		5.715647	114.220025	0.214691
495.762252		49.455886	1070.441	
1.00000		5.715647	114.228733	0.214691
495.779039		55.474380	973.961781	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.162599	-17.544261	-11.856316
-95.260179		-77.592534	-1212.625	
0.25000		-5.162599	-17.537180	-11.856316
-95.241061		-66.522308	-1223.404	
0.50000		-5.162599	-17.530424	-11.856316
-95.222771		-56.163873	-1234.183	
0.75000		-5.162599	-17.524162	-11.856316
-95.204853		-46.594351	-1244.962	
1.00000		-5.162599	-17.518508	-11.856316
-95.190140		-39.665052	-1255.914	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.429982	220.754647	0.610811
600.482208		37.212966	2235.748	
0.25000		6.429982	220.973175	0.610811
600.867476		40.332057	2049.484	
0.50000		6.429982	221.206785	0.610811
601.296392		43.659707	1866.066	
0.75000		6.429982	221.451523	0.610811
601.758376		47.461503	1686.286	
1.00000		6.429982	221.702279	0.610811
602.241595		52.540712	1512.507	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1424

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.438718	-24.710113	-10.997508
-102.171071		-75.661329	-1780.557	
0.25000		-5.438718	-24.562608	-10.997508
-101.620675		-65.614311	-1820.713	
0.50000		-5.438718	-24.311654	-10.997508
-101.094138		-56.180599	-1860.853	
0.75000		-5.438718	-24.131340	-10.997508
-100.601319		-47.806927	-1901.033	
1.00000		-5.438718	-23.968512	-10.997508
-100.154717		-41.164777	-1941.394	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.890126	334.359993	4.430953
547.487679		56.718537	2944.951	
0.25000		7.890126	345.468936	4.430953
560.997640		55.851193	2721.462	
0.50000		7.890126	357.324474	4.430953
578.872757		55.411508	2484.798	
0.75000		7.890126	369.728271	4.430953
598.247960		55.679018	2240.848	
1.00000		7.890126	382.405827	4.430953
618.484001		57.366823	1994.426	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-6.699794	-95.406901	-9.256578
-317.517450		-75.646187	-2057.771	
0.25000		-6.699794	-85.232234	-9.256578
-292.982902		-68.668572	-2129.401	
0.50000		-6.699794	-75.530554	-9.256578
-269.338874		-62.357034	-2201.079	
0.75000		-6.699794	-66.511895	-9.256578
-247.258285		-57.173184	-2272.793	
1.00000		-6.699794	-58.380982	-9.256578
-227.303487		-53.788052	-2350.043	

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		2.227835	94.549999	0.080352
237.585282		4.001225	894.116899	
0.25000		2.227835	94.625883	0.080352
237.719133		5.341383	813.980951	
0.50000		2.227835	94.707004	0.080352
237.868144		7.351487	734.950011	
0.75000		2.227835	94.791989	0.080352
238.028641		9.824718	658.060459	
1.00000		2.227835	94.879065	0.080352
238.196515		12.925221	583.256525	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-1.873687	-8.126078	-4.839865
-22.082104		-30.453400	-697.160474	
0.25000		-1.873687	-8.055269	-4.839865
-21.890919		-25.729281	-717.336372	
0.50000		-1.873687	-7.987708	-4.839865
-21.708023		-21.943117	-737.516393	
0.75000		-1.873687	-7.925091	-4.839865
-21.536839		-19.198570	-757.687459	
1.00000		-1.873687	-7.868547	-4.839865
-21.381708		-17.076411	-777.920448	

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		3.851358	245.487231	1.879425
379.085248		16.325709	2082.648	
0.25000		3.851358	245.494821	1.879425
379.098656		16.162194	1883.287	
0.50000		3.851358	245.502935	1.879425
379.113581		16.231198	1689.970	
0.75000		3.851358	245.511435	1.879425
379.129657		16.685767	1512.249	
1.00000		3.851358	245.520145	1.879425
379.146471		17.738388	1348.351	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1425

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-2.946173	-26.456731	-4.385848
-79.210963		-35.025935	-1451.552	
0.25000		-2.946173	-26.449647	-4.385848
-79.191822		-31.686773	-1510.628	
0.50000		-2.946173	-26.442889	-4.385848
-79.173511		-28.841693	-1569.678	
0.75000		-2.946173	-26.436625	-4.385848
-79.156373		-26.737109	-1628.759	
1.00000		-2.946173	-26.430968	-4.385848
-79.140842		-25.440619	-1688.901	

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.099191	264.789018	1.715451
562.793572		32.703677	2447.891	
0.25000		6.099191	264.795849	1.715451
562.805640		34.469927	2228.742	
0.50000		6.099191	264.803152	1.715451
562.819073		36.506926	2015.165	
0.75000		6.099191	264.810803	1.715451
562.833541		39.188681	1815.760	
1.00000		6.099191	264.818641	1.715451
562.848674		42.918737	1629.116	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.051728	-30.843956	-9.471047
-116.919730		-67.364584	-1908.999	
0.25000		-5.051728	-30.837581	-9.471047
-116.902503		-59.306300	-1963.031	
0.50000		-5.051728	-30.831498	-9.471047
-116.886023		-51.902576	-2017.042	
0.75000		-5.051728	-30.825861	-9.471047
-116.870599		-45.594452	-2071.075	
1.00000		-5.051728	-30.820770	-9.471047
-116.856620		-40.813263	-2126.068	

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.413796	390.997924	6.354786
492.981729		60.031651	3264.453	
0.25000		8.413796	407.954564	6.354786
492.982093		57.176988	3026.052	
0.50000		8.413796	426.007125	6.354786
493.111200		54.994407	2764.774	
0.75000		8.413796	444.842937	6.354786
510.223338		53.804676	2485.804	
1.00000		8.413796	464.026062	6.354786
531.092457		53.974653	2198.708	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.142863	-128.060528	-7.906216
-391.020962		-72.607695	-2195.273	
0.25000		-7.142863	-113.003690	-7.906216
-363.421542		-67.739393	-2254.268	
0.50000		-7.142863	-98.618473	-7.906216
-335.083036		-63.634354	-2373.365	
0.75000		-7.142863	-85.210548	-7.906216
-308.268366		-60.767166	-2462.526	
1.00000		-7.142863	-73.113872	-7.906216
-300.419945		-59.461362	-2561.184	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.675088	271.775150	8.330089
67.228664		55.901126	1953.429	
0.25000		5.675088	293.656000	8.330089
67.228664		48.591113	1847.107	
0.50000		5.675088	316.862176	8.330089
67.228664		41.912628	1707.062	
0.75000		5.675088	340.945559	8.330089
67.228664		36.272036	1533.147	
1.00000		5.675088	365.302276	8.330089
67.228664		31.845916	1342.641	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1426

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.044124	-141.089360	-0.266047
-459.276658		-29.055830	-935.418361	
0.25000		-5.044124	-122.835183	-0.266047
-463.667763		-32.030940	-1006.004	
0.50000		-5.044124	-105.291016	-0.266047
-468.058301		-35.363998	-1076.679	
0.75000		-5.044124	-88.874584	-0.266047
-472.449972		-39.210507	-1147.526	
1.00000		-5.044124	-74.044270	-0.266047
-476.841076		-43.722707	-1234.425	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.871754	427.061803	11.663578
172.207920		77.488953	3109.047	
0.25000		7.871754	452.270665	11.663578
172.207920		67.219993	2896.770	
0.50000		7.871754	479.019997	11.663578
172.207920		57.743681	2650.046	
0.75000		7.871754	506.806613	11.663578
172.207920		49.498869	2381.120	
1.00000		7.871754	534.958821	11.663578
172.207920		42.856530	2105.328	

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-6.783676	-181.666968	-0.373086
-573.563422		-40.126554	-1637.518	
0.25000		-6.783676	-160.351915	-0.373086
-574.049223		-44.180442	-1748.699	
0.50000		-6.783676	-139.871251	-0.373086
-574.533810		-48.676073	-1859.933	
0.75000		-6.783676	-120.734158	-0.373086
-575.020825		-53.868836	-1971.237	
1.00000		-6.783676	-103.436582	-0.373086
-575.506627		-60.094014	-2101.399	

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.430637	477.291537	10.068675
331.995591		69.276701	3644.306	
0.25000		8.430637	500.384337	10.068675
331.995591		60.949976	3377.372	
0.50000		8.430637	524.887606	10.068675
331.995591		53.431204	3079.675	
0.75000		8.430637	550.350209	10.068675
331.995591		47.150891	2761.015	
1.00000		8.430637	576.148966	10.068675
331.995591		42.487362	2435.484	

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.082207	-170.242815	-2.412677
-511.385082		-49.997581	-2080.193	
0.25000		-7.082207	-150.681900	-2.412677
-511.300497		-51.425800	-2201.255	
0.50000		-7.082207	-131.890185	-2.412677
-511.214735		-53.532865	-2322.357	
0.75000		-7.082207	-114.133935	-2.412677
-511.131327		-56.691568	-2443.557	
1.00000		-7.082207	-98.463718	-2.412677
-511.046741		-61.129936	-2581.496	

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.118806	442.278401	8.415158
465.167514		67.748175	3555.521	
0.25000		9.118806	461.529077	8.415158
465.167514		62.666485	3293.192	
0.50000		9.118806	481.956316	8.415158
465.167514		58.408371	3005.492	
0.75000		9.118806	503.182023	8.415158
465.167514		55.434676	2700.561	
1.00000		9.118806	524.688821	8.415158
465.167514		54.180637	2390.532	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1427

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.781037	-147.259526	-6.841601
-456.496044		-72.051293	-2239.610	
0.25000		-7.781037	-130.952342	-6.841601
-456.407912		-68.938365	-2346.134	
0.50000		-7.781037	-115.286141	-6.841601
-456.318795		-66.685309	-2452.696	
0.75000		-7.781037	-100.649980	-6.841601
-456.231646		-65.740850	-2562.002	
1.00000		-7.781037	-87.413992	-6.841601
-456.143513		-66.401299	-2682.049	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		5.695523	439.205639	9.049329
526.399554		69.464888	3525.723	
0.25000		5.695523	464.908679	9.049329
526.418512		60.969967	3268.702	
0.50000		5.695523	492.162636	9.049329
526.446445		53.420524	2994.797	
0.75000		5.695523	520.434557	9.049329
531.190881		49.217288	2709.784	
1.00000		5.695523	549.244972	9.049329
561.887038		47.384010	2415.726	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.824597	-231.433690	-8.985628
-539.500357		-70.688372	-1672.576	
0.25000		-5.824597	-200.592663	-8.985628
-539.500357		-62.086930	-1755.438	
0.50000		-5.824597	-170.997894	-8.985628
-539.500357		-56.320017	-1838.355	
0.75000		-5.824597	-143.200611	-8.985628
-539.500357		-55.581349	-1921.636	
1.00000		-5.824597	-117.727637	-8.985628
-539.500357		-55.484823	-2005.009	

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.118806	477.291537	11.663578
600.482208		77.488953	3644.306	
0.25000		9.118806	500.384337	11.663578
600.867476		67.219993	3377.372	
0.50000		9.118806	524.887606	11.663578
601.296392		58.408371	3079.675	
0.75000		9.118806	550.350209	11.663578
601.758376		55.679018	2761.015	
1.00000		9.118806	576.148966	11.663578
618.484001		57.366823	2435.484	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.781037	-181.666968	-11.856316
-573.563422		-77.592534	-2239.610	
0.25000		-7.781037	-160.351915	-11.856316
-574.049223		-68.938365	-2346.134	
0.50000		-7.781037	-139.871251	-11.856316
-574.533810		-66.685309	-2452.696	
0.75000		-7.781037	-120.734158	-11.856316
-575.020825		-65.740850	-2562.002	
1.00000		-7.781037	-103.436582	-11.856316
-575.506627		-66.401299	-2682.049	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.118806	477.291537	11.663578

```
600.482208    77.488953    3644.306
  0.25000     9.118806   500.384337    11.663578
600.867476    67.219993    3377.372
  0.50000     9.118806   524.887606    11.663578
601.296392    58.408371    3079.675
  0.75000     9.118806   550.350209    11.663578
601.758376    55.679018    2761.015
  1.00000     9.118806   576.148966    11.663578
618.484001    57.366823    2435.484
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  1428

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -7.781037  -231.433690  -11.856316
-573.563422   -77.592534    -2239.610
 0.25000   -7.781037  -200.592663  -11.856316
-574.049223   -68.938365    -2346.134
 0.50000   -7.781037  -170.997894  -11.856316
-574.533810   -66.685309    -2452.696
 0.75000   -7.781037  -143.200611  -11.856316
-575.020825   -65.740850    -2562.002
 1.00000   -7.781037  -117.727637  -11.856316
-575.506627   -66.401299    -2682.049

 COMB   DESIGN  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    9.118806   477.291537    11.663578
600.482208    77.488953    3644.306
 0.25000    9.118806   500.384337    11.663578
600.867476    67.219993    3377.372
 0.50000    9.118806   524.887606    11.663578
601.296392    58.408371    3079.675
 0.75000    9.118806   550.350209    11.663578
601.758376    55.679018    2761.015
 1.00000    9.118806   576.148966    11.663578
618.484001    57.366823    2435.484

 COMB   DESIGN  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -7.781037  -231.433690  -11.856316
-573.563422   -77.592534    -2239.610
 0.25000   -7.781037  -200.592663  -11.856316
-574.049223   -68.938365    -2346.134
 0.50000   -7.781037  -170.997894  -11.856316
-574.533810   -66.685309    -2452.696
 0.75000   -7.781037  -143.200611  -11.856316
-575.020825   -65.740850    -2562.002
 1.00000   -7.781037  -117.727637  -11.856316
-575.506627   -66.401299    -2682.049

 ELEM      114  ================== LENGTH
=     4.927594

 COMB DB-G1-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.655451    40.815796    1.637232
258.469795    31.527464   278.915005
 0.25000    2.655451    40.828394    1.637232
258.490727    31.205348   232.862647
 0.50000    2.655451    40.841554    1.637232
258.523336    30.984551   205.600676
 0.75000    2.655451    40.855072    1.637232
258.557104    30.830193   208.511335
 1.00000    2.655451    40.870161    1.637232
258.595920    30.777907   211.763671

 COMB DB-G1-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.953329   -21.049351   -4.667548
-111.586994   -23.438215  -465.878812
 0.25000   -2.953329   -21.034377   -4.667548
-111.545895   -18.978695  -445.121087
 0.50000   -2.953329   -21.021423   -4.667548
-111.510730   -15.103234  -424.670247
 0.75000   -2.953329   -21.009618   -4.667548
-111.477063   -12.023564  -404.222654
 1.00000   -2.953329   -20.998680   -4.667548
-111.445198    -9.998825  -385.590135

 COMB DB-G1-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.391413    98.728462    1.089545
468.221940    44.111933   575.154885
 0.25000    4.391413    98.741057    1.089545
468.242350    46.430684   465.794279
 0.50000    4.391413    98.754213    1.089545
468.274913    49.004792   389.574599
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  1429

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000    4.391413    98.767727    1.089545
468.308637    51.800919   391.205783
 1.00000    4.391413    98.782809    1.089545
468.347397    54.806019   397.964579

 COMB DB-G1-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.834062   -32.282689   -9.804839
-174.179415   -43.112700  -932.710596
 0.25000   -4.834062   -32.267723   -9.804839
-174.138374   -32.527127  -907.603635
 0.50000   -4.834062   -32.254774   -9.804839
-174.103254   -27.624938  -883.183765
 0.75000   -4.834062   -32.242974   -9.804839
-174.069629   -13.924218  -859.589039
 1.00000   -4.834062   -32.232041   -9.804839
-174.037806   -10.126412  -836.836499

 COMB DB-G1-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.617684   192.764932    0.895918
588.620049    39.665340   1015.737
 0.25000    4.617684   192.776267    0.895918
588.638535    41.156879   808.619909
 0.50000    4.617684   192.788109    0.895918
588.667853    43.207849   640.158243
 0.75000    4.617684   192.800272    0.895918
588.698214    46.081096   548.847305
 1.00000    4.617684   192.813848    0.895918
588.733111    49.144365   562.769193

 COMB DB-G1-3  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.067015   -33.019900   -9.441640
-185.435237   -43.387828   -1439.079
 0.25000   -5.067015   -33.006430   -9.441640
-185.398287   -33.522015   -1435.370
 0.50000   -5.067015   -32.994774   -9.441640
-185.366669   -24.391475   -1432.249
 0.75000   -5.067015   -32.984153   -9.441640
-185.336398   -16.449303   -1429.857
 1.00000   -5.067015   -32.974312   -9.441640
-185.307747   -11.765733   -1428.392

 COMB DB-G1-4  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.474668   332.887246    4.254882
566.492917    45.384542   1654.688
 0.25000    5.474668   344.730818    4.254882
566.492917    42.799496   1381.534
 0.50000    5.474668   357.130634    4.254882
573.178321    41.625887   1132.957
 0.75000    5.474668   369.883073    4.254882
591.797102    41.499048   945.187139
 1.00000    5.474668   383.805263    4.254882
622.098483    43.791528   837.867014

 COMB DB-G1-4  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.933488   -99.193609   -7.975374
-383.516714   -50.979758   -1779.531
 0.25000   -5.933488   -85.414755   -7.975374
-349.439732   -43.735584   -1817.890
 0.50000   -5.933488   -73.363999   -7.975374
-326.499136   -37.129972   -1856.730
 0.75000   -5.933488   -62.337883   -7.975374
-303.926694   -31.534321   -1896.189
 1.00000   -5.933488   -52.148039   -7.975374
-288.026334   -29.096025   -1936.532

 COMB DB-G2-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    1.672904    84.457058    0.125211
231.133748    8.470394   411.246692
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  1430

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000    1.672904    84.595604    0.125211
231.359695    11.569109   322.159593
 0.50000    1.672904    84.740332    0.125211
231.718021    14.760508   244.813345
 0.75000    1.672904    84.889001    0.125211
232.089103    18.074872   219.351751
 1.00000    1.672904    85.054920    0.125211
232.515621    21.486735   224.299874

 COMB DB-G2-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -1.787225   -10.157596   -5.065848
-59.126082   -19.170830  -595.527880
 0.25000   -1.787225    -9.992955   -5.065848
-58.674470   -13.213054  -599.020306
 0.50000   -1.787225    -9.850498   -5.065848
-58.288024    -7.554184  -602.852891
 0.75000   -1.787225    -9.720680   -5.065848
-57.918040    -2.293987  -606.732635
 1.00000   -1.787225    -9.600405   -5.065848
-57.567869    -1.381231  -611.036316

 COMB DB-G2-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.438374   228.258800    1.540761
397.865160    11.071585   1109.919
 0.25000    2.438374   228.271395    1.540761
397.885701    11.184940   870.707516
 0.50000    2.438374   228.284552    1.540761
397.918276    13.044617   662.082807
 0.75000    2.438374   228.298067    1.540761
397.952011    16.066934   521.411589
 1.00000    2.438374   228.313151    1.540761
397.990785    19.254644   510.460291

 COMB DB-G2-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.648086   -19.055938   -4.795996
-125.193924   -25.219435   -1286.866
 0.25000   -2.648086   -19.040961   -4.795996
-125.152869   -20.410265   -1321.449
 0.50000   -2.648086   -19.028010   -4.795996
-125.117737   -15.935421   -1356.217
 0.75000   -2.648086   -19.016209   -4.795996
-125.084102   -12.089062   -1391.590
 1.00000   -2.648086   -19.005274   -4.795996
-125.052269   -11.726841   -1426.425

 COMB DB-G2-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.229226   242.866919    1.407607
567.053507    31.809780   1230.980
 0.25000    4.229226   242.878254    1.407607
567.071994    32.635856   973.573744
 0.50000    4.229226   242.890096    1.407607
567.101312    35.153145   762.593928
 0.75000    4.229226   242.902560    1.407607
567.131673    38.627832   638.822906
 1.00000    4.229226   242.915835    1.407607
567.166570    42.247377   631.968542

 COMB DB-G2-3  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.638580   -32.198343   -8.509547
-194.682144   -41.891184   -1552.056
 0.25000   -4.638580   -32.184872   -8.509547
-194.645194   -32.909734   -1569.057
 0.50000   -4.638580   -32.172217   -8.509547
-194.613576   -24.444685   -1586.489
 0.75000   -4.638580   -32.162595   -8.509547
-194.583304   -16.747185   -1604.305
 1.00000   -4.638580   -32.152754   -8.509547
-194.554654   -12.276124   -1623.050
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  1431

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.818862   403.541983    5.260871
535.916716    44.526413   1949.124
 0.25000    5.818862   421.846904    5.260871
535.916716    40.847807   1650.802
 0.50000    5.818862   441.069600    5.260871
535.916716    38.544372   1364.665
 0.75000    5.818862   460.870382    5.260871
535.916716    37.436847   1122.088
 1.00000    5.818862   481.841058    5.260871
535.916716    37.357167   950.574501

 COMB DB-G2-4  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.202328  -128.040013   -7.124688
-431.059158   -53.368360   -1900.865
 0.25000   -6.202328  -107.361046   -7.124688
-407.707372   -46.968578   -1966.742
 0.50000   -6.202328   -89.002904   -7.124688
-381.591475   -40.997231   -2032.986
 0.75000   -6.202328   -72.110511   -7.124688
-371.616974   -35.683163   -2099.722
 1.00000   -6.202328   -56.551710   -7.124688
-371.616974   -32.960004   -2167.331

 COMB DB-G3-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.999149   321.598951    6.980436
139.648102    32.548221   1480.328
 0.25000    3.999149   345.317554    6.980436
139.648102    25.705254   1321.382
 0.50000    3.999149   370.384838    6.980436
139.648102    19.699893   1133.593
 0.75000    3.999149   396.282935    6.980436
139.648102    14.668669   915.135940
 1.00000    3.999149   422.095989    6.980436
139.648102    10.734863   667.549992

 COMB DB-G3-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.047684  -130.495031   -0.340581
-465.675994   -31.316626  -945.780514
 0.25000   -4.047684  -105.240100   -0.340581
-465.675994   -32.825661   -1032.767
 0.50000   -4.047684   -82.112447   -0.340581
-465.675994   -34.415605   -1119.928
 0.75000   -4.047684   -60.588420   -0.340581
-465.675994   -36.057204   -1207.434
 1.00000   -4.047684   -40.916009   -0.340581
-465.675994   -37.727765   -1294.943

 COMB DB-G3-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.215097   481.258486   10.427637
266.248836    40.904783   2248.007
 0.25000    5.215097   509.495037   10.427637
266.248836    31.307609   1951.857
 0.50000    5.215097   539.269896   10.427637
266.248836    23.727825   1640.424
 0.75000    5.215097   570.007053   10.427637
266.248836    17.748760   1320.726
 1.00000    5.215097   601.190256   10.427637
266.248836    12.966823   999.006051

 COMB DB-G3-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.349575  -166.264465   -0.283115
-560.599956   -43.773377   -1593.038
 0.25000   -5.349575  -135.685400   -0.283115
-560.599956   -45.978294   -1716.264
 0.50000   -5.349575  -107.931013   -0.283115
-560.599956   -48.724806   -1839.605
 0.75000   -5.349575   -82.191633   -0.283115
-560.599956   -52.029104   -1963.412
 1.00000   -5.349575   -58.605394   -0.283115
-560.599956   -56.258489   -2087.288
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  1432

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.639927   515.573646    8.303715
421.190290    38.240325   2416.294
 0.25000    5.639927   541.463925    8.303715
421.190290    30.296777   2066.967
 0.50000    5.639927   568.758453    8.303715
421.190290    24.711267   1706.876
 0.75000    5.639927   596.932836    8.303715
421.190290    20.835126   1355.253
 1.00000    5.639927   625.566936    8.303715
421.190290    18.134328   1086.020

 COMB DB-G3-3  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.838248  -156.039229   -2.630449
-531.454611   -47.727226   -1979.577
 0.25000   -5.838248  -127.954488   -2.630449
-531.454611   -47.081448   -2099.785
 0.50000   -5.838248  -102.484579   -2.630449
-531.454611   -46.748168   -2220.123
 0.75000   -5.838248   -78.873272   -2.630449
-531.454611   -46.808585   -2340.863
 1.00000   -5.838248   -57.233870   -2.630449
-531.454611   -48.027100   -2462.041

 COMB DB-G3-4  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.307001   467.405308    6.975051
528.225169    46.657312   2224.604
 0.25000    6.307001   488.990866    6.975051
528.225169    41.647052   1891.024
 0.50000    6.307001   511.746984    6.975051
528.225169    38.482804   1563.994
 0.75000    6.307001   535.236583    6.975051
528.225169    36.915665   1274.390
 1.00000    6.307001   559.111151    6.975051
528.225169    36.374575   1053.150

 COMB DB-G3-4  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.630584  -141.254558   -6.311892
-503.626712   -56.471307   -2005.132
 0.25000   -6.630584  -117.838030   -6.311892
-503.626712   -51.097588   -2096.528
 0.50000   -6.630584   -96.602224   -6.311892
-503.626712   -46.075788   -2188.351
 0.75000   -6.630584   -76.916362   -6.311892
-503.626712   -41.589384   -2280.778
 1.00000   -6.630584   -58.874464   -6.311892
-503.626712   -40.974333   -2373.848

 COMB DL-G1-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.895934    49.561317    1.392878
321.037124    40.065602   509.470308
 0.25000    3.895934    49.569264    1.392878
321.050896    40.142182   461.466496
 0.50000    3.895934    49.577688    1.392878
321.066086    40.743270   417.817506
 0.75000    3.895934    49.586417    1.392878
321.082364    41.937468   382.816323
 1.00000    3.895934    49.595404    1.392878
321.099364    43.807423   348.325504

 COMB DL-G1-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.735292   -27.978919   -5.090122
-145.755451   -23.387112   -635.003428
 0.25000   -3.735292   -27.972082   -5.090122
-145.736238   -18.777345   -611.584340
 0.50000   -3.735292   -27.966015   -5.090122
-145.717958   -14.822087   -588.366752
 0.75000   -3.735292   -27.960260   -5.090122
-145.700971   -11.747209   -565.874408
 1.00000   -3.735292   -27.955118   -5.090122
-145.685594    -9.735766   -544.077487
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  1433

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.327206   118.698413    1.011629
578.524960    57.033762   971.851348
 0.25000    6.327206   118.706359    1.011629
578.538701    61.619521   856.925491
 0.50000    6.327206   118.714781    1.011629
578.553859    67.538627   750.556365
 0.75000    6.327206   118.723509    1.011629
578.570103    74.985783   676.086747
 1.00000    6.327206   118.732493    1.011629
578.587068    84.504647   616.699006

 COMB DL-G1-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.081290   -42.147312   -12.751337
-221.853013   -41.807603   -1255.386
 0.25000   -6.081290   -42.140679   -12.751337
-221.833829   -30.999059   -1227.611
 0.50000   -6.081290   -42.134416   -12.751337
-221.815576   -21.620057   -1202.086
 0.75000   -6.081290   -42.128664   -12.751337
-221.798614   -14.158038   -1187.649
 1.00000   -6.081290   -42.123523   -12.751337
-221.783260   -10.638425   -1191.807

 COMB DL-G1-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.748266   243.260170    1.024940
704.764051    53.021589   1510.008
 0.25000    6.748266   243.488884    1.024940
705.159561    56.589974   1291.527
 0.50000    6.748266   243.731434    1.024940
705.595863    61.684439   1103.959
 0.75000    6.748266   243.982767    1.024940
706.063447    68.623276   965.337496
 1.00000    6.748266   244.241502    1.024940
706.551785    77.298364   880.061259

 COMB DL-G1-3  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.256267   -46.443946   -11.986341
-237.825904   -42.985242   -1940.860
 0.25000   -6.256267   -46.252925   -11.986341
-237.273632   -32.480700   -1944.808
 0.50000   -6.256267   -46.072584   -11.986341
-236.748130   -23.720362   -1974.229
 0.75000   -6.256267   -45.906039   -11.986341
-236.259811   -16.968247   -2052.888
 1.00000   -6.256267   -45.758913   -11.986341
-235.817770   -13.199473   -2169.060

 COMB DL-G1-4  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.201977   391.064663    5.433927
662.760129    57.689121   1992.694
 0.25000    8.201977   402.781663    5.433927
671.741999    57.021756   1725.156
 0.50000    8.201977   415.189109    5.433927
690.018130    58.385182   1487.786
 0.75000    8.201977   428.022146    5.433927
709.729718    62.130499   1300.536
 1.00000    8.201977   441.213331    5.433927
730.323294    68.505617   1165.123

 COMB DL-G1-4  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -7.520168   -99.352584   -10.107928
-435.996716   -55.664012   -2349.626
 0.25000   -7.520168   -89.905811   -10.107928
-411.203799   -49.022606   -2434.991
 0.50000   -7.520168   -80.963063   -10.107928
-387.513523   -44.282336   -2572.165
 0.75000   -7.520168   -72.751939   -10.107928
-365.479348   -41.850342   -2773.088
 1.00000   -7.520168   -65.416750   -10.107928
-345.556933   -42.796969   -3028.588
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  1434

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.308777   100.395950    0.128419
276.785295    12.990249   582.277374
 0.25000    2.308777   100.475404    0.128419
276.922703    17.793073   487.928797
 0.50000    2.308777   100.559628    0.128419
277.074278    23.310432   404.114914
 0.75000    2.308777   100.646901    0.128419
277.236718    29.712411   350.570383
 1.00000    2.308777   100.736746    0.128419
277.406368    37.460956   324.294430

 COMB DL-G2-1  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.173583   -13.307771   -7.653960
-70.197713   -17.692273   -777.789713
 0.25000   -2.173583   -13.241435   -7.653960
-70.005879   -11.992391   -761.955768
 0.50000   -2.173583   -13.178808   -7.653960
-69.823345    -6.985834   -795.057185
 0.75000   -2.173583   -13.121284   -7.653960
-69.653727    -2.963243   -831.228172
 1.00000   -2.173583   -13.069879   -7.653960
-69.500184    -2.150219   -894.006024

 COMB DL-G2-2  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.667968   280.160706    2.096331
443.956358    16.680342   1347.018
 0.25000    3.667968   280.168653    2.096331
443.970122    18.538371   1113.707
 0.50000    3.667968   280.177077    2.096331
443.985304    22.389774   917.202703
 0.75000    3.667968   280.185806    2.096331
444.001574    27.818080   786.483115
 1.00000    3.667968   280.194792    2.096331
444.018565    34.394502   729.297249

 COMB DL-G2-2  ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.187982   -27.439803   -6.865929
-132.383720   -25.836957   -1688.750
 0.25000   -3.187982   -27.433166   -6.865929
-132.364514   -21.390313   -1744.944
 0.50000   -3.187982   -27.426901   -6.865929
-132.346240   -18.417534   -1843.019
 0.75000   -3.187982   -27.421146   -6.865929
-132.329260   -16.941661   -2006.018
 1.00000   -3.187982   -27.416004   -6.865929
-132.313888   -18.025564   -2217.813

 COMB DL-G2-3  ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.235333   297.727628    1.923391
```

```
658.753854    42.809179    1626.955
 0.25000     6.235333   297.734780     1.923391
658.766241    46.285542    1370.534
 0.50000     6.235333   297.742362     1.923391
658.779905    51.761140    1151.484
 0.75000     6.235333   297.750218     1.923391
658.794548    59.590163    1004.095
 1.00000     6.235333   297.758306     1.923391
658.809840    68.926879    924.668079

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.696907   -44.560395   -11.632746
-224.851578   -42.252656    -2125.605
 0.25000    -5.696907   -44.554422   -11.632746
-224.834293   -33.299481    -2156.759
 0.50000    -5.696907   -44.548783   -11.632746
-224.817847   -26.147365    -2227.543
 0.75000    -5.696907   -44.543604   -11.632746
-224.802564   -20.963521    -2356.657
 1.00000    -5.696907   -44.538975   -11.632746
-224.788730   -18.726265    -2534.856
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                         1435

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     8.677532   468.548796     6.625553
627.399473    54.035948    2197.649
 0.25000     8.677532   486.624791     6.625553
627.414898    52.521444    1906.011
 0.50000     8.677532   505.725032     6.625553
627.578440    53.352190    1643.368
 0.75000     8.677532   525.450284     6.625553
629.809373    56.306864    1425.546
 1.00000     8.677532   545.666914     6.625553
651.458735    61.446172    1263.037

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -7.939742  -118.296402    -9.702030
-511.339784   -61.290390    -2560.821
 0.25000    -7.939742  -104.490521    -9.702030
-483.144373   -55.836993    -2694.873
 0.50000    -7.939742   -91.405389    -9.702030
-454.307333   -52.254002    -2892.727
 0.75000    -7.939742   -79.335397    -9.702030
-434.957202   -50.735950    -3164.327
 1.00000    -7.939742   -68.581654    -9.702030
-428.556391   -52.160165    -3503.412

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     5.969755   358.985191     8.093100
175.357694    32.183020    1344.112
 0.25000     5.969755   382.803750     8.093100
175.357694    25.582567    1197.980
 0.50000     5.969755   407.752825     8.093100
175.357694    19.730564    1052.814
 0.75000     5.969755   433.676067     8.093100
175.357694    15.099360    908.134813
 1.00000     5.969755   459.984243     8.093100
175.357694    11.843559    767.735487

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.524599  -104.758606    -0.296598
-537.831814   -44.879669    -1234.439
 0.25000    -5.524599   -88.446590    -0.296598
-542.221850   -47.938183    -1416.355
 0.50000    -5.524599   -72.899077    -0.296598
-546.611885   -51.628226    -1644.466
 0.75000    -5.524599   -58.459995    -0.296598
-551.001920   -56.046233    -1913.529
 1.00000    -5.524599   -45.676871    -0.296598
-555.391955   -61.248744    -2226.126

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     8.062718   547.823840    12.606102
300.388995    42.854503    2106.795
 0.25000     8.062718   575.124193    12.606102
300.388995    33.341525    1837.010
 0.50000     8.062718   603.746720    12.606102
300.388995    25.741969    1588.782
 0.75000     8.062718   633.505469    12.606102
300.388995    20.417395    1375.832
 1.00000     8.062718   663.736490    12.606102
300.388995    16.717632    1196.006

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -7.294268  -137.477313    -0.385537
-643.598889   -61.348351    -2101.429
 0.25000    -7.294268  -118.298791    -0.385537
-644.084571   -66.605112    -2352.059
 0.50000    -7.294268  -100.046987    -0.385537
-644.570254   -73.383737    -2682.036
 0.75000    -7.294268   -83.128281    -0.385537
-645.055937   -81.787290    -3077.513
 1.00000    -7.294268   -68.095118    -0.385537
-645.541620   -91.885548    -3540.361
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                         1436

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     8.522142   594.972468    10.190407
483.287563    41.774964    2436.028
 0.25000     8.522142   619.965843    10.190407
483.287563    35.460260    2099.468
 0.50000     8.522142   646.171302    10.190407
483.287563    31.214545    1799.018
 0.75000     8.522142   673.422381    10.190407
483.287563    29.104690    1547.513
 1.00000     8.522142   701.107211    10.190407
483.287563    28.768706    1361.221

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -7.660511  -132.063501    -3.734496
-618.613748   -62.425675    -2581.433
 0.25000    -7.660511  -114.423831    -3.734496
-618.529183   -64.020851    -2816.128
 0.50000    -7.660511   -97.689994    -3.734496
-618.444618   -66.859390    -3136.340
 0.75000    -7.660511   -82.156957    -3.734496
-618.360054   -71.412652    -3553.879
 1.00000    -7.660511   -68.352019    -3.734496
-618.275489   -77.927550    -4052.634

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     9.390348   541.321962     8.546805
622.098796    54.110864    2390.180
 0.25000     9.390348   562.156489     8.546805
622.098796    51.614159    2065.027
 0.50000     9.390348   584.001489     8.546805
622.098796    51.507704    1773.012
 0.75000     9.390348   606.718221     8.546805
622.098796    53.979631    1533.173
 1.00000     9.390348   629.796696     8.546805
622.098796    59.110173    1356.097

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -8.600697  -124.427163    -9.204324
-592.524061   -68.286704    -2681.781
 0.25000    -8.600697  -109.742341    -9.204324
-592.435950   -64.418360    -2865.275
 0.50000    -8.600697   -95.769804    -9.204324
-592.347838   -62.272412    -3120.611
 0.75000    -8.600697   -82.819931    -9.204324
-592.259727   -62.391172    -3458.737
 1.00000    -8.600697   -71.310707    -9.204324
-592.171616   -66.138798    -3874.833

 COMB     DB ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     6.307001   515.573646    10.427637
588.620049    46.657312    2416.294
 0.25000     6.307001   541.463925    10.427637
588.638535    46.430684    2066.967
 0.50000     6.307001   568.758453    10.427637
588.667853    49.004792    1706.876
 0.75000     6.307001   596.932836    10.427637
591.797102    51.800919    1355.253
 1.00000     6.307001   625.566936    10.427637
622.098483    54.806019    1086.020

 COMB     DB ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -6.630584  -166.264465    -9.804839
-560.599956   -56.471307    -2055.132
 0.25000    -6.630584  -135.685400    -9.804839
-560.599956   -51.097588    -2099.785
 0.50000    -6.630584  -107.931013    -9.804839
-560.599956   -48.724806    -2220.123
 0.75000    -6.630584   -82.191633    -9.804839
-560.599956   -52.029104    -2340.963
 1.00000    -6.630584   -58.871307    -9.804839
-560.599956   -56.258489    -2462.041
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                         1437

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB     DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     9.390348   594.972468    12.606102
704.764051    57.689121    2436.028
 0.25000     9.390348   619.965843    12.606102
705.159561    61.619521    2099.468
 0.50000     9.390348   646.171302    12.606102
705.595863    67.538627    1799.018
 0.75000     9.390348   673.422381    12.606102
709.729718    74.985783    1547.513
 1.00000     9.390348   701.107211    12.606102
730.323294    84.504647    1361.221

 COMB     DL ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -8.600697  -137.477313   -12.751337
-643.598889   -68.286704    -2681.781
 0.25000    -8.600697  -118.298791   -12.751337
-644.084571   -66.605112    -2865.275
 0.50000    -8.600697  -100.046987   -12.751337
-644.570254   -73.383737    -3136.340
 0.75000    -8.600697   -83.128281   -12.751337
-645.055937   -81.787290    -3553.879
 1.00000    -8.600697   -71.310707   -12.751337
-645.541620   -91.885548    -4052.634

 COMB     CAR ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     9.390348   594.972468    12.606102
704.764051    57.689121    2436.028
 0.25000     9.390348   619.965843    12.606102
705.159561    61.619521    2099.468
 0.50000     9.390348   646.171302    12.606102
705.595863    67.538627    1799.018
 0.75000     9.390348   673.422381    12.606102
709.729718    74.985783    1547.513
 1.00000     9.390348   701.107211    12.606102
730.323294    84.504647    1361.221

 COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -8.600697  -166.264465   -12.751337
-643.598889   -68.286704    -2681.781
 0.25000    -8.600697  -135.685400   -12.751337
-644.084571   -66.605112    -2865.275
 0.50000    -8.600697  -107.931013   -12.751337
-644.570254   -73.383737    -3136.340
 0.75000    -8.600697   -83.128281   -12.751337
-645.055937   -81.787290    -3553.879
 1.00000    -8.600697   -71.310707   -12.751337
-645.541620   -91.885548    -4052.634

 COMB  DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     9.390348   594.972468    12.606102
704.764051    57.689121    2436.028
 0.25000     9.390348   619.965843    12.606102
705.159561    61.619521    2099.468
 0.50000     9.390348   646.171302    12.606102
705.595863    67.538627    1799.018
 0.75000     9.390348   673.422381    12.606102
709.729718    74.985783    1547.513
 1.00000     9.390348   701.107211    12.606102
730.323294    84.504647    1361.221

 COMB  DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -8.600697  -166.264465   -12.751337
-643.598889   -68.286704    -2681.781
 0.25000    -8.600697  -135.685400   -12.751337
-644.084571   -66.605112    -2865.275
 0.50000    -8.600697  -107.931013   -12.751337
-644.570254   -73.383737    -3136.340
 0.75000    -8.600697   -83.128281   -12.751337
-645.055937   -81.787290    -3553.879
 1.00000    -8.600697   -71.310707   -12.751337
-645.541620   -91.885548    -4052.634
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                         1438

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      115 ================== LENGTH =    4.928335

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     3.193237    35.104809     2.776064
250.861937    31.909140   211.734445
 0.25000     3.193237    35.117604     2.776064
250.881825    30.215813   211.584177
 0.50000     3.193237    35.130793     2.776064
250.915651    28.739585   211.547768
 0.75000     3.193237    35.144143     2.776064
250.950472    27.432874   211.587184
 1.00000     3.193237    35.158923     2.776064
250.991365    26.290250   211.690864

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -3.429778   -41.495139    -3.615595
-185.154037   -10.385657   -384.940873
 0.25000    -3.429778   -41.481130    -3.615595
-185.112068    -8.313715   -340.945127
 0.50000    -3.429778   -41.468736    -3.615595
-185.074952    -7.399791   -298.904788
 0.75000    -3.429778   -41.458941    -3.615595
-185.040858    -7.181089   -258.790994
 1.00000    -3.429778   -41.451964    -3.615595
-185.018825    -7.665448   -221.085040

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     5.260303    86.490511     2.872207
445.642239    56.398375    397.925116
 0.25000     5.260303    86.503353     2.872207
445.661564    56.096514    398.611826
 0.50000     5.260303    86.516539     2.872207
445.695350    56.313702    401.602683
 0.75000     5.260303    86.529886     2.872207
445.730132    57.127955    404.649508
 1.00000     5.260303    86.544660     2.872207
445.770932    58.578567    407.814441

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.614155   -73.143991    -8.214873
-312.408202   -10.871575   -835.792082
 0.25000    -5.614155   -73.129989    -8.214873
-312.366283    -7.101905   -767.876139
 0.50000    -5.614155   -73.117600    -8.214873
-312.329205    -4.745192   -702.886600
 0.75000    -5.614155   -73.107832    -8.214873
-312.295173    -4.481218   -641.005351
 1.00000    -5.614155   -73.100859    -8.214873
-312.273640    -4.229093   -582.623067

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     5.553674   181.411207     2.731713
560.285045    51.045500    562.743463
 0.25000     5.553674   181.422720     2.731713
560.302564    50.843917    572.749005
 0.50000     5.553674   181.434588     2.731713
560.332980    51.180325    582.872252
 0.75000     5.553674   181.446601     2.731713
560.364293    52.042179    593.039964
 1.00000     5.553674   181.459899     2.731713
560.401034    53.424823    603.313946

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.902556   -82.735552    -7.813539
-370.382927   -12.771002    -1427.287
 0.25000    -5.902556   -82.722948    -7.813539
-370.345189    -7.580613    -1373.644
 0.50000    -5.902556   -82.711797    -7.813539
-370.311810    -4.500980    -1323.427
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                         1439

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000    -5.902556   -82.703000    -7.813539
-370.281167    -4.147376    -1276.467
 1.00000    -5.902556   -82.696724    -7.813539
-370.261675    -3.877363    -1232.649

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     6.413462   350.952967     5.155754
578.229335    45.727689    837.942159
 0.25000     6.413462   363.096168     5.155754
578.229335    45.421563    730.638331
 0.50000     6.413462   375.640979     5.155754
586.284735    45.559643    692.683581
 0.75000     6.413462   388.353163     5.155754
610.140272    46.135456    703.653240
 1.00000     6.413462   402.086606     5.155754
633.132481    47.145005    721.632530

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -6.730736  -116.641896    -6.925287
-502.946928   -29.731931    -1196.915
 0.25000    -6.730736  -103.775372    -6.925287
-477.236743   -25.927557    -1946.543
 0.50000    -6.730736   -92.226338    -6.925287
-453.989718   -24.197084    -1960.028
 0.75000    -6.730736   -85.346436    -6.925287
-434.181191   -24.729933    -1976.292
 1.00000    -6.730736   -78.988157    -6.925287
-434.181191   -25.696595    -1995.212

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     1.990444    78.239870     0.109230
213.881251    21.938991    224.297603
 0.25000     1.990444    78.380587     0.109230
214.095370    23.472112    228.641203
 0.50000     1.990444    78.525644     0.109230
214.467128    25.295153    233.290472
 0.75000     1.990444    78.677425     0.109230
214.849839    27.714847    238.394814
 1.00000     1.990444    78.834999     0.109230
215.298893    30.524416    243.655476

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -2.081354   -33.771983    -4.566644
-134.054759    -1.660216   -610.660353
 0.25000    -2.081354   -33.617941    -4.566644
-133.593518    -1.571300   -593.890622
 0.50000    -2.081354   -33.481652    -4.566644
-133.185556    -1.486649   -578.945602
 0.75000    -2.081354   -33.374131    -4.566644
-132.811033    -1.402843   -563.141031
 1.00000    -2.081354   -33.297417    -4.566644
-132.572797    -1.327363   -549.273336

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     2.870895   228.068028     1.411346
384.124024    20.072198   510.401688
 0.25000     2.870895   228.080821     1.411346
384.143489    21.671169   466.767446
 0.50000     2.870895   228.094008     1.411346
384.177285    23.630058   481.619536
 0.75000     2.870895   228.107356     1.411346
384.212077    26.011308   496.513391
 1.00000     2.870895   228.122131     1.411346
384.252900    28.819335   511.438182

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -3.004760   -47.537943    -4.207957
-235.889999   -12.202786    -1426.008
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                         1440

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000    -3.004760   -47.523940    -4.207957
-235.848068   -11.216276    -1434.700
 0.50000    -3.004760   -47.511550    -4.207957
-235.810980   -11.226488    -1445.160
 0.75000    -3.004760   -47.501775    -4.207957
-235.776933   -12.379940    -1456.839
 1.00000    -3.004760   -47.494801    -4.207957
-235.755275   -13.590285    -1469.281

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     5.026878   237.207984     2.281779
545.845470    43.808657    631.896175
 0.25000     5.026878   237.219497     2.281779
545.862989    44.360068    593.085258
 0.50000     5.026878   237.231365     2.281779
545.893406    45.294951    607.173237
 0.75000     5.026878   237.243378     2.281779
545.924719    46.615294    621.298720
 1.00000     5.026878   237.256676     2.281779
545.961459    48.335995    635.470658

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.324778   -75.385128    -7.233206
-355.501528   -13.131228    -1622.182
 0.25000    -5.324778   -75.372524    -7.233206
-355.463790   -12.003772    -1596.512
 0.50000    -5.324778   -75.361373    -7.233206
-355.430411   -12.051901    -1573.736
 0.75000    -5.324778   -75.352180    -7.233206
-355.399768   -12.934958    -1553.487
 1.00000    -5.324778   -75.346300    -7.233206
-355.380276   -13.869119    -1535.432

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     6.734266   444.300456     5.271976
582.686698    39.235570    951.021459
 0.25000     6.734266   463.306839     5.271976
582.686698    39.504344    785.672936
 0.50000     6.734266   482.998321     5.271976
582.686698    40.097253    712.102642
 0.75000     6.734266   502.981641     5.271976
582.686698    41.012614    734.215735
 1.00000     6.734266   523.873555     5.271976
595.251144    42.262374    756.356814

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -6.981872  -119.972431    -6.884900
-530.390625   -33.650950    -2167.151
 0.25000    -6.981872  -100.717547    -6.884900
-503.014768   -32.233776    -2224.070
 0.50000    -6.981872   -87.460134    -6.884900
-493.205418   -31.629465    -2283.688
 0.75000    -6.981872   -77.282255    -6.884900
-493.205418   -31.952136    -2345.653
 1.00000    -6.981872   -70.983041    -6.884900
-493.205418   -32.824577    -2409.474

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     4.435748   405.836615     5.546946
276.074221    10.289457    668.817149
 0.25000     4.435748   431.064112     5.546946
276.074221     6.128286   423.203522
 0.50000     4.435748   457.356002     5.546946
276.074221     3.727805   318.882338
 0.75000     4.435748   484.101745     5.546946
276.074221     3.417376   335.246481
 1.00000     4.435748   510.348948     5.546946
276.074221     3.111879   351.610649
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                         1441

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -4.419972   -49.674986    -2.156184
-429.307661   -37.770552    -1295.986
 0.25000    -4.419972   -33.395310    -2.156184
-429.307661   -37.217264    -1435.977
 0.50000    -4.419972   -20.788330    -2.156184
-429.307661   -36.816463    -1576.284
 0.75000    -4.419972   -13.486549    -2.156184
-429.307661   -36.572959    -1716.764
 1.00000    -4.419972   -13.490267    -2.156184
-429.307661   -36.942004    -1857.832

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     5.677955   580.414142     8.264004
419.442252    12.503243    1000.288
 0.25000     5.677955   610.240244     8.264004
419.442252    12.172031   665.723947
 0.50000     5.677955   641.258951     8.264004
419.442252     7.358423   547.069733
 0.75000     5.677955   672.798644     8.264004
419.442252     7.019564   573.163863
 1.00000     5.677955   704.309513     8.264004
419.442252     6.698012   599.265826

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.719948   -77.766499    -2.418363
-534.695547   -56.138929    -2088.440
 0.25000    -5.719948   -54.132324    -2.418363
-534.695547   -57.325250    -2267.711
 0.50000    -5.719948   -38.813479    -2.418363
-534.695547   -58.951840    -2447.787
 0.75000    -5.719948   -25.268423    -2.418363
-534.695547   -60.823759    -2627.981
 1.00000    -5.719948   -25.268423    -2.418363
-534.695547   -63.550078    -2808.593

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000     6.365695   600.673017     6.782617
```

```
543.831504   18.266336    1087.195
  0.25000    6.365695   628.001599     6.782617
543.831504   14.920147   804.184808
  0.50000    6.365695   656.416779     6.782617
543.831504   15.523687   700.552594
  0.75000    6.365695   685.307228     6.782617
543.831504   16.247013   729.712185
  1.00000    6.365695   714.224548     6.782617
543.831504   17.065311   758.894894
```

COMB DB-G3-3 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -6.434844  -95.289445   -4.168600
-576.689119  -48.322959  -2462.814
  0.25000   -6.434844  -73.286468   -4.168600
-576.689119  -46.625053  -2617.384
  0.50000   -6.434844  -59.150142   -4.168600
-576.689119  -46.445822  -2773.790
  0.75000   -6.434844  -46.280467   -4.168600
-576.689119  -47.077953  -2930.995
  1.00000   -6.434844  -46.280467   -4.168600
-576.689119  -48.470113  -3088.674
```

COMB DB-G3-4 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    7.229800   532.878905    5.989157
620.113782   37.035921   1054.117
  0.25000    7.229800   555.662985    5.989157
620.113782   34.571564   819.908537
  0.50000    7.229800   579.352767    5.989157
620.113782   35.557285   734.881937
  0.75000    7.229800   603.438715    5.989157
620.113782   36.862536   760.600595
  1.00000    7.229800   627.548839    5.989157
620.113782   38.504822   786.331722
```


F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -7.415265  -106.716561   -7.052988
-595.125813  -41.826030   -2374.109
  0.25000   -7.415265   -88.359048   -7.052988
-595.125813  -40.389598   -2477.367
  0.50000   -7.415265   -76.571989   -7.052988
-595.125813  -39.862842   -2583.366
  0.75000   -7.415265   -65.827154   -7.052988
-595.125813  -40.257061   -2690.909
  1.00000   -7.415265   -65.827154   -7.052988
-595.125813  -41.287245   -2800.039
```

COMB DL-G1-1 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    4.454521   43.872292    2.718381
324.318010   45.066945   347.260058
  0.25000    4.454521   43.880775    2.718381
324.332658   44.063757   320.346005
  0.50000    4.454521   43.889621    2.718381
324.348633   43.539349   302.106280
  0.75000    4.454521   43.898751    2.718381
324.365632   43.507882   290.921794
  1.00000    4.454521   43.907999    2.718381
324.383353   43.884842   285.208699
```

COMB DL-G1-1 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -4.356469   -52.100688   -3.642991
-239.551534  -10.906744  -543.324969
  0.25000   -4.356469   -52.094520   -3.642991
-239.532760   -8.945819   -498.985262
  0.50000   -4.356469   -52.088813   -3.642991
-239.515057   -7.867146  -463.673368
  0.75000   -4.356469   -52.083671   -3.642991
-239.498707   -7.761409  -436.549727
  1.00000   -4.356469   -52.079217   -3.642991
-239.483971   -8.282351  -423.725315
```

COMB DL-G1-2 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    7.158580   102.899914    2.703971
566.690905   86.151172   615.307718
  0.25000    7.158580   102.908396    2.703971
566.712524   89.817783   576.946507
  0.50000    7.158580   102.917241    2.703971
566.728473   94.738172   555.238123
  0.75000    7.158580   102.926371    2.703971
566.745438  100.304134   546.057876
  1.00000    7.158580   102.935618    2.703971
566.763129  106.275997   545.337838
```

COMB DL-G1-2 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -7.102532   -90.355091   -9.132208
-396.900730  -12.222255   -1191.224
  0.25000   -7.102532   -90.348928   -9.132208
-396.881983   -9.273199   -1155.902
  0.50000   -7.102532   -90.343225   -9.132208
-396.864307   -7.191408   -1138.319
  0.75000   -7.102532   -90.338087   -9.132208
-396.847981   -6.711342   -1139.276
  1.00000   -7.102532   -90.333637   -9.132208
-396.833266   -6.002366   -1156.536
```

COMB DL-G1-3 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    7.366039   227.004814    2.666169
688.751295   78.638474   878.608815
  0.25000    7.366039   227.249115    2.666169
689.172120   81.808724   825.295052
  0.50000    7.366039   227.503849    2.666169
689.631248   86.104502   801.160094
  0.75000    7.366039   227.766774    2.666169
690.119633   91.151935   798.140154
  1.00000    7.366039   228.033066    2.666169
690.628890   96.716940   806.371957
```


F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -7.143023   -99.855832   -8.697461
-459.670533  -14.813665   -2168.782
  0.25000   -7.143023   -99.678369   -8.697461
-459.130849  -11.064321   -2244.215
  0.50000   -7.143023   -99.514169   -8.697461
-458.621949   -8.462252   -2353.005
  0.75000   -7.143023   -99.366223   -8.697461
-458.151938   -7.240782   -2491.039
  1.00000   -7.143023   -99.238084   -8.697461
-457.728323   -6.971771   -2648.421
```

COMB DL-G1-4 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    8.736287   424.417861    5.301583
690.156867   70.036572   1164.014
  0.25000    8.736287   437.106631    5.301583
700.686951   72.516264   1061.714
  0.50000    8.736287   450.325820    5.301583
720.593749   75.959724   995.067131
  0.75000    8.736287   463.966738    5.301583
741.924946   80.039310   954.547454
  1.00000    8.736287   477.733611    5.301583
764.215956   84.550859   947.906818
```

COMB DL-G1-4 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -8.336777  -129.204318   -7.595550
-603.953434  -44.607487   -3028.158
  0.25000   -8.336777  -120.588530   -7.595550
-579.725529  -43.841841   -3286.664
  0.50000   -8.336777  -112.595916   -7.595550
-556.773638  -44.067508   -3593.363
  0.75000   -8.336777  -105.428464   -7.595550
-535.567523  -45.456181   -3948.010
  1.00000   -8.336777   -99.250915   -7.595550
-519.199119  -47.804927   -4341.339
```

COMB DL-G2-1 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    2.511924   88.764980    0.099621
258.635927   37.422890   323.924952
  0.25000    2.511924   88.849808    0.099621
258.782118   42.556716   310.722992
  0.50000    2.511924   88.938259    0.099621
258.941611   48.046723   307.941906
  0.75000    2.511924   89.029554    0.099621
259.111265   53.859665   311.768636
  1.00000    2.511924   89.122019    0.099621
259.288168   59.687967   318.708137
```

COMB DL-G2-1 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -2.523361  -37.836342   -5.527598
-159.973338  -2.306771  -894.269028
  0.25000   -2.523361  -37.774711   -5.527598
-159.785877   -2.236855  -936.702129
  0.50000   -2.523361  -37.717686   -5.527598
-159.609110   -2.171472  -991.197605
  0.75000   -2.523361  -37.666306   -5.527598
-159.445851   -2.110548   -1054.082
  1.00000   -2.523361  -37.621809   -5.527598
-159.298707   -2.055945   -1121.310
```

COMB DL-G2-2 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    3.671356   279.650665    1.572655
430.669591   34.462345   728.777815
  0.25000    3.671356   279.659148    1.572655
430.684231   38.417124   662.848862
  0.50000    3.671356   279.667993    1.572655
430.700199   43.028693   641.369665
  0.75000    3.671356   279.677124    1.572655
430.717190   47.985186   650.676526
  1.00000    3.671356   279.686371    1.572655
430.734904   53.098930   669.634624
```


F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -3.417933   -55.547076   -5.053890
-263.659395  -18.540479   -2218.262
  0.25000   -3.417933   -55.540910   -5.053890
-263.640629  -18.549783   -2741.243
  0.50000   -3.417933   -55.535204   -5.053890
-263.622932  -18.963218   -2647.160
  0.75000   -3.417933   -55.530063   -5.053890
-263.606588  -20.187617   -2905.011
  1.00000   -3.417933   -55.525610   -5.053890
-263.591857  -21.636373   -3175.493
```

COMB DL-G2-3 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    6.647246   290.683980    2.228213
644.169806   69.817703   923.565498
  0.25000    6.647246   290.691615    2.228213
644.128082   74.744881   846.455499
  0.50000    6.647246   290.699576    2.228213
644.142453   80.754692   816.456655
  0.75000    6.647246   290.707793    2.228213
644.157746   87.178311   819.693990
  1.00000    6.647246   290.716115    2.228213
644.173688   93.745141   835.211588
```

COMB DL-G2-3 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -6.393104   -90.912776   -8.202920
-421.043897  -20.059246   -2534.803
  0.25000   -6.393104   -90.906526   -8.202920
-421.027006  -19.077023   -2679.901
  0.50000   -6.393104   -90.901391   -8.202920
-421.011080  -19.263389   -2854.799
  0.75000   -6.393104   -90.896764   -8.202920
-420.996370  -20.318942   -3059.802
  1.00000   -6.393104   -90.892757   -8.202920
-420.983112  -21.469840   -3294.162
```

COMB DL-G2-4 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    9.131633   538.066420    5.316163
693.500533   62.539016   1262.400
  0.25000    9.131633   557.975788    5.316163
693.812359   65.905825   1140.533
  0.50000    9.131633   578.869962    5.316163
695.915361   70.624845   1051.726
  0.75000    9.131633   600.290893    5.316163
700.920267   75.652612   988.471618
  1.00000    9.131633   621.892222    5.316163
726.612068   80.829512   986.960949
```

COMB DL-G2-4 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -8.713487  -130.629304   -7.534379
-646.040044  -53.912813   -3502.906
  0.25000   -8.713487  -118.437152   -7.534379
-616.663709  -54.453064   -3879.407
  0.50000   -8.713487  -107.106628   -7.534379
-595.296402  -56.402945   -4307.995
  0.75000   -8.713487   -96.979235   -7.534379
-589.443785  -59.010832   -4790.767
  1.00000   -8.713487   -88.262801   -7.534379
-585.589748  -62.039740   -5331.776
```

COMB DL-G3-1 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    6.209477   499.860619    5.678356
347.412101   12.415170   768.341520
  0.25000    6.209477   527.252776    5.678356
347.412101    8.961519   648.684582
  0.50000    6.209477   555.770416    5.678356
347.412101    6.491521   537.059987
  0.75000    6.209477   584.916691    5.678356
347.412101    5.341425   441.506390
  1.00000    6.209477   614.177848    5.678356
346.931168    5.015704   450.475288
```


F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -5.904232   -57.522112   -1.798496
-521.126403  -62.419103   -2225.188
  0.25000   -5.904232   -44.081690   -1.798496
-525.517098  -63.764779   -2663.882
  0.50000   -5.904232   -31.582393   -1.798496
-529.907794  -65.611897   -3150.003
  0.75000   -5.904232   -20.465478   -1.798496
-534.298489  -68.078129   -3687.082
  1.00000   -5.904232   -18.160018   -1.798496
-538.208232  -71.088484   -4280.096
```

COMB DL-G3-2 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    8.204058   715.959863    8.696164
488.525116   17.376277   1196.542
  0.25000    8.204058   747.095939    8.696164
488.525116   14.469867   1008.093
  0.50000    8.204058   779.517860    8.696164
488.525116   11.314956   863.029697
  0.75000    8.204058   812.681975    8.696164
488.525116   10.632412   755.469559
  1.00000    8.204058   846.024979    8.696164
488.520460   10.218657   771.847972
```

COMB DL-G3-2 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -7.642284   -86.324686   -2.054579
-636.767090  -93.359307   -3539.414
  0.25000   -7.642284   -70.217935   -2.054579
-637.252846  -97.653090   -4152.809
  0.50000   -7.642284   -55.259114   -2.054579
-637.738602  -102.723255   -4827.502
  0.75000   -7.642284   -41.938089   -2.054579
-638.224358  -108.434998   -5575.015
  1.00000   -7.642284   -36.370867   -2.054579
-638.705480  -114.670436   -6391.765
```

COMB DL-G3-3 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    8.684073   735.903306    7.143130
638.770475   29.279212   1361.477
  0.25000    8.684073   764.375337    7.143130
638.770475   27.485956   1185.665
  0.50000    8.684073   794.029760    7.143130
638.770475   27.810147   1054.754
  0.75000    8.684073   824.365586    7.143130
638.770475   29.654255   960.776712
  1.00000    8.684073   854.862689    7.143130
638.771422   31.740994   981.308196
```

COMB DL-G3-3 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -8.123966  -102.580584   -4.350538
-689.065830  -79.419471   -4052.087
  0.25000   -8.123966   -87.755896   -4.350538
-688.981252  -80.822718   -4666.331
  0.50000   -8.123966   -73.988548   -4.350538
-688.896675  -83.945546   -5354.272
  0.75000   -8.123966   -61.725851   -4.350538
-688.812097  -88.160997   -6115.282
  1.00000   -8.123966   -56.287596   -4.350538
-688.727822  -92.848556   -6942.826
```

COMB DL-G3-4 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    9.818292   651.455742    6.189131
743.694531   59.956522   1355.867
  0.25000    9.818292   675.191033    6.189131
743.694531   61.787500   1197.810
  0.50000    9.818292   699.910014    6.189131
743.694531   65.557705   1083.088
  0.75000    9.818292   725.195403    6.189131
743.694531   70.666320   1003.419
  1.00000    9.818292   750.618655    6.189131
743.695754   75.979850   1021.782
```


F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -9.369499  -119.462755   -7.762912
-719.134707  -67.996984   -3874.171
  0.25000   -9.369499  -107.102216   -7.762912
-719.046582  -69.053471   -4366.802
  0.50000   -9.369499   -95.623310   -7.762912
-718.958458  -71.419785   -4928.831
  0.75000   -9.369499   -85.398860   -7.762912
-718.870333  -74.788342   -5561.082
  1.00000   -9.369499   -80.854106   -7.762912
-718.783438  -78.554343   -6246.789
```

COMB DB ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    7.229800   600.673017    8.264004
620.113782   56.398375   1087.195
  0.25000    7.229800   628.001599    8.264004
620.113782   56.096514   819.908537
  0.50000    7.229800   656.416779    8.264004
620.113782   56.312702   734.881937
  0.75000    7.229800   685.307228    8.264004
620.113782   57.127955   760.600595
  1.00000    7.229800   714.224548    8.264004
633.132481   58.578567   786.331722
```

COMB DB ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -7.415265  -119.972431   -8.214873
-595.125813  -56.138929   -2462.814
  0.25000   -7.415265  -103.775372   -8.214873
-595.125813  -57.325250   -2617.384
  0.50000   -7.415265   -92.226338   -8.214873
-595.125813  -58.951840   -2773.790
  0.75000   -7.415265   -85.346436   -8.214873
-595.125813  -60.823759   -2930.995
  1.00000   -7.415265   -82.696724   -8.214873
-595.125813  -63.550078   -3088.674
```

COMB DL ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    9.818292   735.903306    8.696164
743.694531   86.015172   1361.477
  0.25000    9.818292   764.375337    8.696164
743.694531   89.817783   1197.810
  0.50000    9.818292   794.029760    8.696164
743.694531   94.738172   1083.088
  0.75000    9.818292   824.365586    8.696164
743.694531  100.304134   1003.419
  1.00000    9.818292   854.862689    8.696164
764.215956  106.275997   1021.782
```

COMB DL ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -9.369499  -130.629304   -9.132208
-719.134707  -93.359307   -4052.087
  0.25000   -9.369499  -120.588530   -9.132208
-719.046582  -97.653090   -4666.331
  0.50000   -9.369499  -112.595916   -9.132208
-718.958458  -102.723255   -5354.272
  0.75000   -9.369499  -105.428464   -9.132208
-718.870333  -108.434998   -6115.282
  1.00000   -9.369499   -99.250915   -9.132208
-718.783438  -114.670436   -6942.826
```

COMB CAR ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    9.818292   735.903306    8.696164
743.694531   86.015172   1361.477
  0.25000    9.818292   764.375337    8.696164
743.694531   89.817783   1197.810
  0.50000    9.818292   794.029760    8.696164
743.694531   94.738172   1083.088
  0.75000    9.818292   824.365586    8.696164
743.694531  100.304134   1003.419
  1.00000    9.818292   854.862689    8.696164
764.215956  106.275997   1021.782
```


F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -9.369499  -130.629304   -9.132208
-719.134707  -93.359307   -4052.087
  0.25000   -9.369499  -120.588530   -9.132208
-719.046582  -97.653090   -4666.331
  0.50000   -9.369499  -112.595916   -9.132208
-718.958458  -102.723255   -5354.272
  0.75000   -9.369499  -105.428464   -9.132208
-718.870333  -108.434998   -6115.282
  1.00000   -9.369499   -99.250915   -9.132208
-718.783438  -114.670436   -6942.826
```

COMB DESIGN ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    9.818292   735.903306    8.696164
743.694531   86.015172   1361.477
  0.25000    9.818292   764.375337    8.696164
743.694531   89.817783   1197.810
  0.50000    9.818292   794.029760    8.696164
743.694531   94.738172   1083.088
  0.75000    9.818292   824.365586    8.696164
743.694531  100.304134   1003.419
  1.00000    9.818292   854.862689    8.696164
764.215956  106.275997   1021.782
```

COMB DESIGN ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -9.369499  -130.629304   -9.132208
-719.134707  -93.359307   -4052.087
  0.25000   -9.369499  -120.588530   -9.132208
-719.046582  -97.653090   -4666.331
  0.50000   -9.369499  -112.595916   -9.132208
-718.958458  -102.723255   -5354.272
  0.75000   -9.369499  -105.428464   -9.132208
-718.870333  -108.434998   -6115.282
  1.00000   -9.369499   -99.250915   -9.132208
-718.783438  -114.670436   -6942.826
```

ELEM 116 ========== LENGTH = 3.450058

COMB DB-G1-1 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    3.830300   44.260166    3.073295
195.365535   27.784353   211.662846
  0.25000    3.830300   44.264210    3.073295
195.389609   26.496819   196.811628
  0.50000    3.830300   44.271687    3.073295
195.414606   25.366207   181.960911
  0.75000    3.830300   44.280674    3.073295
195.441745   24.673322   167.132865
  1.00000    3.830300   44.290211    3.073295
195.469414   26.416874   152.328282
```

COMB DB-G1-1 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -3.968072   -31.017240   -2.919594
-245.173498   -7.697692   -220.545470
  0.25000   -3.968072   -31.007595   -2.919594
-245.147675   -7.174973   -197.922246
  0.50000   -3.968072   -30.997791   -2.919594
-245.121855   -7.038874   -188.459657
  0.75000   -3.968072   -30.988033   -2.919594
-245.096584   -7.155366   -222.467017
  1.00000   -3.968072   -30.978372   -2.919594
-245.071771   -7.513385   -257.192716
```

COMB DB-G1-2 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    6.294547   79.693062    7.060259
335.163375   60.385018   407.780606
  0.25000    6.294547   79.697072    7.060259
335.187421   57.180698   378.944067
  0.50000    6.294547   79.704517    7.060259
335.212388   54.484982   350.108730
```


F R A M E E L E M E N T I N T E R N A L F O R C E S

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.75000    6.294547   79.713050    7.060259
335.239470   53.153704   321.296093
  1.00000    6.294547   79.722831    7.060259
335.267108   53.781367   292.908518
```

COMB DB-G1-2 ---------- MIN

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000   -6.497296   -78.034973   -3.150748
-430.090488   -6.020112   -581.686612
  0.25000   -6.497296   -78.025330   -3.150748
-430.064735   -5.923858   -524.316150
  0.50000   -6.497296   -78.015530   -3.150748
-430.038945   -5.829273   -511.060090
  0.75000   -6.497296   -78.005774   -3.150748
-430.013705   -5.735367   -565.588925
  1.00000   -6.497296   -77.996117   -3.150748
-429.988925   -5.643961   -621.457997
```

COMB DB-G1-3 ---------- MAX

```
 REL DIST          P          V2          V3
        T         M2          M3
  0.00000    6.668270   91.433061    6.764643
402.604788   55.910797   603.296571
  0.25000    6.668270   91.436678    6.764643
402.626436   52.732645   560.158980
```

```
 0.50000     6.668270    91.443386     6.764643
402.648913    49.954264   517.022208
 0.75000     6.668270    91.451471     6.764643
402.673300    48.541338   473.905820
 1.00000     6.668270    91.459871     6.764643
402.698181    48.979361   430.810599

  COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -6.853578 -169.684603   -3.191160
-534.889225   -5.300707   -1231.595
 0.25000   -6.853578 -169.675924   -3.191160
-534.866031   -5.217749   -1108.598
 0.50000   -6.853578 -169.667103   -3.191160
-534.842813   -5.134852   -1086.506
 0.75000   -6.853578 -169.658323   -3.191160
-534.820090   -5.051984   -1133.432
 1.00000   -6.853578 -169.649631   -3.191160
-534.797781   -5.213159   -1181.794

  COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    7.495433   95.689275    6.313893
468.302450   49.557230  721.635554
 0.25000    7.495433   96.190503    6.313893
468.302450   46.813619  669.576453
 0.50000    7.495433  101.287092    6.313893
486.052557   44.408005  617.518031
 0.75000    7.495433  108.531440    6.313893
503.474033   43.140551  584.641497
 1.00000    7.495433  117.119949    6.313893
520.356185   43.419572  575.422057

  COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -7.597648  -389.758381   -5.127815
-607.597972  -27.208689   -1994.647
 0.25000   -7.597648  -380.664600   -5.127815
-590.762137  -26.913777   -1795.422
 0.50000   -7.597648  -371.431574   -5.127815
-572.994207  -26.683976   -1736.909
 0.75000   -7.597648  -362.257593   -5.127815
-565.167847  -26.518035   -1735.913
 1.00000   -7.597648  -353.196362   -5.127815
-565.167847  -26.389014   -1736.143

  COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    2.371320   37.706555    3.979675
147.466028   30.740391  243.657221
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1449

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
            T         M2         M3
 0.25000    2.371320   37.750761    3.979675
147.730610   28.465690  226.156071
 0.50000    2.371320   37.832746    3.979675
148.005337   27.174219  208.655930
 0.75000    2.371320   37.931567    3.979675
148.303392   26.072371  191.404906
 1.00000    2.371320   38.034224    3.979675
148.607494   24.987008  174.263876

  COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -2.416617  -73.338963   -0.125905
-201.788865   -1.754337  -548.876719
 0.25000   -2.416617  -73.232887   -0.125905
-201.505386   -1.672232  -495.393009
 0.50000   -2.416617  -73.125073   -0.125905
-201.221611   -1.590280  -490.146199
 0.75000   -2.416617  -73.017754   -0.125905
-200.943890   -1.508447  -506.450813
 1.00000   -2.416617  -72.911519   -0.125905
-200.671215   -1.432360  -523.237259

  COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    3.377670   58.145631    3.770105
272.907720   29.860276  511.459631
 0.25000    3.377670   58.149650    3.770105
272.925773   27.926998  474.370492
 0.50000    3.377670   58.157103    3.770105
272.950748   26.294045  437.282293
 0.75000    3.377670   58.166086    3.770105
272.977844   24.867583  400.218278
 1.00000    3.377670   58.175419    3.770105
273.005489   23.563032  373.959459

  COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -3.395917  -222.752501   -1.435849
-368.326972  -13.745436   -1468.792
 0.25000   -3.395917  -222.742857   -1.435849
-368.301201  -13.002046   -1322.205
 0.50000   -3.395917  -222.733056   -1.435849
-368.275403  -12.301703   -1297.469
 0.75000   -3.395917  -222.723300   -1.435849
-368.250156  -11.621158   -1298.034
 1.00000   -3.395917  -222.713642   -1.435849
-368.225367  -10.985627   -1299.444

  COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    5.971266   87.591530    6.337059
398.242945   50.401328  635.471799
 0.25000    5.971266   87.595147    6.337059
398.264593   47.190965  589.753392
 0.50000    5.971266   87.601855    6.337059
398.287071   44.438673  544.035649
 0.75000    5.971266   87.609940    6.337059
398.311457   43.729215  498.340616
 1.00000    5.971266   87.618340    6.337059
398.336338   43.627819  462.416873

  COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -6.089914  -228.871878   -2.686082
-525.343480  -14.962118   -1534.557
 0.25000   -6.089914  -228.863199   -2.686082
-525.320286  -14.276502   -1381.499
 0.50000   -6.089914  -228.854378   -2.686082
-525.297068  -13.629789   -1353.057
 0.75000   -6.089914  -228.845597   -2.686082
-525.274346  -13.000968   -1380.129
 1.00000   -6.089914  -228.836905   -2.686082
-525.252036  -12.412735   -1408.640
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1450

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    7.774653   92.103655    6.496023
517.979175   44.560738  756.373435
 0.25000    7.774653   92.103655    6.496023
517.979175   41.820644  701.565071
 0.50000    7.774653   93.420156    6.496023
517.979175   39.455999  646.757263
 0.75000    7.774653  101.066282    6.496023
517.979175   38.797150  617.172437
 1.00000    7.774653  111.462221    6.496023
537.077450   38.639383  634.352201

  COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -7.813771  -512.328131   -5.163738
-576.614440  -34.236467   -2409.353
 0.25000   -7.813771  -498.216977   -5.163738
-576.614440  -34.228690   -2167.772
 0.50000   -7.813771  -483.914233   -5.163738
-576.614440  -34.274328   -2084.936
 0.75000   -7.813771  -469.735516   -5.163738
-576.614440  -34.392676   -2048.458
 1.00000   -7.813771  -455.773312   -5.163738
-576.614440  -34.611590   -2013.393

  COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    4.883379   30.054812    2.654915
407.215921    4.059496  351.631905
 0.25000    4.883379   30.054812    2.654915
407.215921    3.925926  325.729997
 0.50000    4.883379   30.054812    2.654915
407.215921    3.792908  299.828092
 0.75000    4.883379   30.054812    2.654915
407.215921    4.069053  295.470450
 1.00000    4.883379   30.581676    2.654915
407.215921    5.983353  383.866701

  COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -4.773641  -511.843388   -4.830611
-303.131558  -37.641712   -1859.047
 0.25000   -4.773641  -493.418034   -4.830611
-303.131558  -38.265325   -1667.463
 0.50000   -4.773641  -474.785972   -4.830611
-303.131558  -38.984779   -1560.653
 0.75000   -4.773641  -456.404624   -4.830611
-303.131558  -39.778825   -1454.010
 1.00000   -4.773641  -438.023598   -4.830611
-303.131558  -40.674840   -1347.525

  COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    6.247994   52.583530    3.071845
532.737879    7.779331  599.307128
 0.25000    6.247994   52.583530    3.071845
532.737879    7.535099  555.228262
 0.50000    6.247994   52.583530    3.071845
532.737879    7.297914  511.149437
 0.75000    6.247994   52.583530    3.071845
532.737879    7.065435  496.561152
 1.00000    6.247994   60.502586    3.071845
532.737879    7.015470  591.380542

  COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -6.098303  -705.895920   -7.123349
-450.101124  -64.411310   -2809.888
 0.25000   -6.098303  -684.016794   -7.123349
-450.101124  -63.951508   -2522.954
 0.50000   -6.098303  -661.877934   -7.123349
-450.101124  -63.656983   -2387.555
 0.75000   -6.098303  -640.007502   -7.123349
-450.101124  -63.453443   -2254.164
 1.00000   -6.098303  -618.559988   -7.123349
-450.101124  -63.438360   -2121.332
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1451

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    7.142309   71.724405    4.526036
584.813471   18.947286  758.938422
 0.25000    7.142309   71.724405    4.526036
584.813471   17.809543  703.411941
 0.50000    7.142309   71.724405    4.526036
584.813471   16.782123  647.885524
 0.75000    7.142309   71.724405    4.526036
584.813471   15.864820  619.754774
 1.00000    7.142309   79.661400    4.526036
584.813471   15.068651  687.603540

  COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -7.029972  -709.958981   -6.111073
-558.013470  -49.162327   -3089.538
 0.25000   -7.029972  -689.902149   -6.111073
-558.013470  -49.248410   -2776.280
 0.50000   -7.029972  -669.606801   -6.111073
-558.013470  -49.473839   -2649.206
 0.75000   -7.029972  -649.554793   -6.111073
-558.013470  -49.775118   -2537.355
 1.00000   -7.029972  -629.885621   -6.111073
-558.013470  -50.237699   -2426.209

  COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    8.257194   89.682987    6.843204
610.854516   40.673127  786.357433
 0.25000    8.257194   89.682987    6.843204
610.854516   38.102189  729.190283
 0.50000    8.257194   89.682987    6.843204
610.854516   36.033264  672.023290
 0.75000    8.257194   89.682987    6.843204
610.854516   35.271575  637.709781
 1.00000    8.257194   96.322802    6.843204
610.854516   34.624336  683.314232

  COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -8.237386  -620.595216   -5.668334
-624.978075  -42.564783   -2800.403
 0.25000   -8.237386  -603.874114   -5.668334
-624.978075  -42.610124   -2517.297
 0.50000   -8.237386  -586.953359   -5.668334
-624.978075  -42.771401   -2407.503
 0.75000   -8.237386  -570.235392   -5.668334
-624.978075  -42.995741   -2335.123
 1.00000   -8.237386  -553.836446   -5.668334
-624.978075  -43.354660   -2263.978

  COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    5.278107   71.056522    2.876772
270.501594   45.367080  285.091891
 0.25000    5.278107   71.059974    2.876772
270.512865   44.866885  264.653563
 0.50000    5.278107   71.063793    2.876772
270.525032   44.537902  247.073896
 0.75000    5.278107   71.067942    2.876772
270.537986   44.558433  230.886182
 1.00000    5.278107   71.072357    2.876772
270.551620   45.458677  216.213345

  COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -5.170866  -46.392039   -2.997043
-315.738372   -9.273662  -423.768655
 0.25000   -5.170866  -46.385364   -2.997043
-315.725556   -8.786804  -426.429769
 0.50000   -5.170866  -46.378738   -2.997043
-315.713079   -8.430928  -432.533230
 0.75000   -5.170866  -46.372228   -2.997043
-315.701078   -8.387685  -440.354782
 1.00000   -5.170866  -46.365899   -2.997043
-315.689683   -8.657025  -450.151434
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1452

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    8.472705  128.674012    7.286812
450.769436  108.191978  545.207524
 0.25000    8.472705  128.677460    7.286812
450.790689  104.524149  504.566039
 0.50000    8.472705  128.681276    7.286812
450.792838  101.131669  467.744008
 0.75000    8.472705  128.685421    7.286812
450.805778   98.288061  433.191814
 1.00000    8.472705  128.689833    7.286812
450.819383   96.322391  402.050692

  COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -8.439672 -107.424459   -3.125971
-546.252134   -7.695489   -1156.694
 0.25000   -8.439672 -107.417786   -3.125971
-546.239340   -7.572293   -1139.342
 0.50000   -8.439672 -107.411160   -3.125971
-546.226886   -7.568019   -1126.669
 0.75000   -8.439672 -107.404651   -3.125971
-546.214906   -7.770683   -1116.951
 1.00000   -8.439672 -107.398322   -3.125971
-546.203532   -8.512095   -1111.196

  COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    8.665040  150.879223    7.106359
519.734960   98.583336  806.278192
 0.25000    8.665040  150.978506    7.106359
520.058922   95.006935  747.693915
 0.50000    8.665040  151.088384    7.106359
520.408660   91.721015  693.113251
 0.75000    8.665040  151.209353    7.106359
520.781196   89.023304  642.992251
 1.00000    8.665040  151.334747    7.106359
521.172874   87.203281  599.671453

  COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -8.484672  -234.418953   -3.212716
-659.744250   -8.633459   -2648.680
 0.25000   -8.484672  -234.226762   -3.212716
-659.375960   -8.437942   -2533.634
 0.50000   -8.484672  -234.035960   -3.212716
-659.017426   -8.365850   -2423.794
 0.75000   -8.484672  -233.848506   -3.212716
-658.672562   -8.470791   -2320.155
 1.00000   -8.484672  -233.666234   -3.212716
-658.345146   -9.223402   -2225.126

  COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    9.841841  158.483622    6.566227
583.996051   86.494247  947.847936
 0.25000    9.841841  163.205992    6.566227
598.451856   83.406687  888.622862
 0.50000    9.841841  168.455611    6.566227
614.085147   80.560294  854.749493
 0.75000    9.841841  174.157388    6.566227
630.726347   78.204603  827.395932
 1.00000    9.841841  180.228183    6.566227
648.170803   76.583832  817.571469

  COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -9.466110  -489.667429   -5.179677
-742.263434   -49.611760   -4341.555
 0.25000   -9.466110  -479.767710   -5.179677
-726.138778   -48.239885   -4054.059
 0.50000   -9.466110  -469.923323   -5.179677
-710.463473   -46.974051   -3782.163
 0.75000   -9.466110  -460.236073   -5.179677
-695.444738   -45.890969   -3527.159
 1.00000   -9.466110  -450.806145   -5.179677
-681.369570   -45.369442   -3289.662
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1453

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    2.956760   60.509692    4.478854
182.533890   59.774563  318.700597
 0.25000    2.956760   60.544174    4.478854
182.646424   56.558892  294.518597
 0.50000    2.956760   60.582335    4.478854
182.767906   53.400949  271.598128
 0.75000    2.956760   60.623781    4.478854
182.897310   50.265950  249.802860
 1.00000    2.956760   60.667897    4.478854
183.033363   47.133868  230.119907

  COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -3.005218  -91.943619   -0.139997
-244.516664   -2.338427   -1121.440
 0.25000   -3.005218  -91.876883   -0.139997
-244.388730   -2.256391   -1075.545
 0.50000   -3.005218  -91.810630   -0.139997
-244.264184   -2.199026   -1031.261
 0.75000   -3.005218  -91.745540   -0.139997
-244.144385   -2.143637  -988.782588
 1.00000   -3.005218  -91.682249   -0.139997
-244.030646   -2.105424  -948.959778

  COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    4.099737   99.340580    4.332071
308.337155   53.442869  669.661117
 0.25000    4.099737   99.344031    4.332071
308.348422   50.399985  620.149324
 0.50000    4.099737   99.348750    4.332071
308.360584   47.474693  574.277246
 0.75000    4.099737   99.351997    4.332071
308.373533   44.658544  537.313113
 1.00000    4.099737   99.356412    4.332071
308.387161   41.976000  526.407628

  COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -3.887174  -289.665507   -1.534687
-415.491814  -21.833920   -3175.727
 0.25000   -3.887174  -289.658832   -1.534687
-415.479003  -20.853091   -2984.704
 0.50000   -3.887174  -289.652206   -1.534687
-415.466532  -19.891688   -2798.466
 0.75000   -3.887174  -289.645697   -1.534687
-415.454536  -18.990656   -2621.717
 1.00000   -3.887174  -289.639367   -1.534687
-415.443146  -18.393087   -2455.667

  COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    7.663151  146.586396    6.834229
486.196549   95.153570  835.184825
 0.25000    7.663151  146.589501    6.834229
486.206690   90.920739  774.305618
 0.50000    7.663151  146.592938    6.834229
486.217636   86.837056  717.322807
 0.75000    7.663151  146.596671    6.834229
486.229290   83.529898  669.262913
 1.00000    7.663151  146.600644    6.834229
486.241555   80.535603  645.839410

  COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -7.449358  -301.439212   -2.633237
-622.190055  -22.731585   -3294.148
 0.25000   -7.449358  -301.433205   -2.633237
-622.178526  -21.826645   -3108.279
 0.50000   -7.449358  -301.427242   -2.633237
-622.167302  -20.935601   -2938.936
 0.75000   -7.449358  -301.421383   -2.633237
-622.156505  -20.067339   -2794.976
 1.00000   -7.449358  -301.415687   -2.633237
-622.146255  -19.377512   -2657.932
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1454

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   10.112304  148.012660    6.808619
631.534651   82.693269  986.955110
 0.25000   10.112304  153.246232    6.808619
634.435197   79.057455  921.513229
 0.50000   10.112304  160.460848    6.808619
638.370491   75.548201  902.338081
 0.75000   10.112304  168.325523    6.808619
649.888233   72.709018  892.864157
 1.00000   10.112304  176.691977    6.808619
670.816969   70.121800  899.533381

  COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -9.719755  -638.026676   -5.011892
-715.357865   -63.789537   -5331.679
 0.25000   -9.719755  -622.635087   -5.011892
-700.592690   -62.271878   -4921.737
 0.50000   -9.719755  -607.281266   -5.011892
-697.530841   -60.786492   -4534.163
 0.75000   -9.719755  -592.150676   -5.011892
-695.524216   -59.361072   -4198.127
 1.00000   -9.719755  -577.406169   -5.011892
-694.567109   -58.169712   -3873.494

  COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    6.490317   41.833981    2.435469
515.878430    6.104322  450.499278
 0.25000    6.490317   41.923534    2.435469
513.466819    5.963704  422.388839
 0.50000    6.490317   42.034126    2.435469
510.405599    6.152480  440.980596
 0.75000    6.490317   50.164378    2.435469
507.331914    7.006936  495.173261
 1.00000    6.490317   58.736499    2.435469
504.258118    8.243226  555.180503

  COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -6.174879  -635.786913   -4.611803
-392.335983   -72.274438   -4279.830
 0.25000   -6.174879  -615.128382   -4.611803
-392.978154   -71.222346   -3837.812
 0.50000   -6.174879  -594.471954   -4.611803
-393.010620   -70.349583   -3423.515
 0.75000   -6.174879  -574.142083   -4.611803
-393.010620   -69.670119   -3035.476
 1.00000   -6.174879  -554.249754   -4.611803
-393.010620   -69.241844   -2671.887

  COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    8.409803   82.265259    2.893783
639.948932   11.582096  171.901841
 0.25000    8.409803   82.525018    2.893783
639.615239   11.288493  721.549271
 0.50000    8.409803   86.681858    2.893783
639.275188   11.118317  730.714815
 0.75000    8.409803   96.534732    2.893783
638.935137   11.157203  781.821160
 1.00000    8.409803  106.994794    2.893783
638.595073   12.409374  868.202062

  COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000   -7.826123  -877.215446   -7.062368
-544.024324  -116.045489   -6391.538
 0.25000   -7.826123  -853.588585   -7.062368
-544.030714  -113.208574   -5779.873
 0.50000   -7.826123  -830.025321   -7.062368
-544.030714  -110.564233   -5207.104
 0.75000   -7.826123  -806.843503   -7.062368
-544.030714  -108.147306   -4673.657
 1.00000   -7.826123  -784.162832   -7.062368
-544.030714  -106.051384   -4174.103
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1455

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

  COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
            T         M2         M3
 0.00000    9.180315  114.470490    4.728466
704.078244   33.142256  981.365515
 0.25000    9.180315  114.733222    4.728466
704.136665   31.314882  915.788293
 0.50000    9.180315  119.001729    4.728466
704.195873   29.651307  905.223332
 0.75000    9.180315  128.090762    4.728466
704.255081   28.238408  931.887401
 1.00000    9.180315  137.740595    4.728466
704.314292   27.905033  987.904151
```

```
 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.631614  -883.615486    -6.037632
-672.807497  -93.999657   -6942.766
 0.25000   -8.631614  -861.996583    -6.037632
-672.806714  -91.895273   -6336.548
 0.50000   -8.631614  -840.437727    -6.037632
-672.806714  -89.959122   -5761.567
 0.75000   -8.631614  -819.229182    -6.037632
-672.806714  -88.232455   -5220.652
 1.00000   -8.631614  -798.479124    -6.037632
-672.806714  -86.799034   -4712.887

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.714002   144.174768    7.254301
751.945166   77.836844   1021.802
 0.25000   10.714002   144.394658    7.254301
752.005840   74.047688   952.148300
 0.50000   10.714002   147.968306    7.254301
752.067531   70.521564   928.783651
 0.75000   10.714002   155.547231    7.254301
752.129222   67.658921   936.989591
 1.00000   10.714002   163.593804    7.254301
752.190916   65.691808   970.507049

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.291263  -775.943549    -5.521429
-763.456760  -80.289143   -6246.650
 0.25000  -10.291263  -757.922380    -5.521429
-763.455748  -78.498881   -5728.139
 0.50000  -10.291263  -739.951316    -5.521429
-763.455748  -76.849123   -5242.943
 0.75000  -10.291263  -722.272308    -5.521429
-763.455748  -75.374888   -4796.588
 1.00000  -10.291263  -704.975485    -5.521429
-763.455748  -74.154719   -4379.057

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   8.257194   95.689275    7.060259
610.854516   60.385018   786.357433
 0.25000   8.257194   96.190503    7.060259
610.854516   57.180698   729.190283
 0.50000   8.257194   101.287092    7.060259
610.854516   54.484982   672.023790
 0.75000   8.257194   108.531440    7.060259
610.854516   53.153704   637.709781
 1.00000   8.257194   117.119949    7.060259
610.854516   53.781367   687.603540

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -8.237386  -709.958301    -7.123349
-624.978075  -64.411310   -3089.538
 0.25000  -8.237386  -689.902149    -7.123349
-624.978075  -63.951508   -2776.280
 0.50000  -8.237386  -669.606801    -7.123349
-624.978075  -63.656983   -2649.206
 0.75000  -8.237386  -649.554791    -7.123349
-624.978075  -63.453443   -2537.355
 1.00000  -8.237386  -629.885621    -7.123349
-624.978075  -63.438360   -2426.209
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1456

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.714002   158.483622    7.286812
751.945166   108.191978   1021.802
 0.25000   10.714002   163.205992    7.286812
752.005840   104.524149   952.148300
 0.50000   10.714002   168.455611    7.286812
752.067531   101.131669   928.783651
 0.75000   10.714002   174.157388    7.286812
752.129222   98.288061   936.989591
 1.00000   10.714002   180.228183    7.286812
752.190916   96.322391   987.904151

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.291263  -883.615486    -7.062368
-763.456760  -116.045489   -6942.766
 0.25000  -10.291263  -861.996583    -7.062368
-763.455748  -113.208574   -6336.548
 0.50000  -10.291263  -840.437727    -7.062368
-763.455748  -110.564233   -5761.567
 0.75000  -10.291263  -819.229182    -7.062368
-763.455748  -108.147306   -5220.652
 1.00000  -10.291263  -798.479124    -7.062368
-763.455748  -106.051384   -4712.887

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.714002   158.483622    7.286812
751.945166   108.191978   1021.802
 0.25000   10.714002   163.205992    7.286812
752.005840   104.524149   952.148300
 0.50000   10.714002   168.455611    7.286812
752.067531   101.131669   928.783651
 0.75000   10.714002   174.157388    7.286812
752.129222   98.288061   936.989591
 1.00000   10.714002   180.228183    7.286812
752.190916   96.322391   987.904151

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.291263  -883.615486    -7.123349
-763.456760  -116.045489   -6942.766
 0.25000  -10.291263  -861.996583    -7.123349
-763.455748  -113.208574   -6336.548
 0.50000  -10.291263  -840.437727    -7.123349
-763.455748  -110.564233   -5761.567
 0.75000  -10.291263  -819.229182    -7.123349
-763.455748  -108.147306   -5220.652
 1.00000  -10.291263  -798.479124    -7.123349
-763.455748  -106.051384   -4712.887

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.714002   158.483622    7.286812
751.945166   108.191978   1021.802
 0.25000   10.714002   163.205992    7.286812
752.005840   104.524149   952.148300
 0.50000   10.714002   168.455611    7.286812
752.067531   101.131669   928.783651
 0.75000   10.714002   174.157388    7.286812
752.129222   98.288061   936.989591
 1.00000   10.714002   180.228183    7.286812
752.190916   96.322391   987.904151

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.291263  -883.615486    -7.123349
-763.456760  -116.045489   -6942.766
 0.25000  -10.291263  -861.996583    -7.123349
-763.455748  -113.208574   -6336.548
 0.50000  -10.291263  -840.437727    -7.123349
-763.455748  -110.564233   -5761.567
 0.75000  -10.291263  -819.229182    -7.123349
-763.455748  -108.147306   -5220.652
 1.00000  -10.291263  -798.479124    -7.123349
-763.455748  -106.051384   -4712.887
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1457

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM     117 ================== LENGTH
=    4.928060

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   4.512581   25.176606    4.385300
128.545500   25.700896   152.235594
 0.25000   4.512581   25.187422    4.385300
128.576835   26.114107   128.622458
 0.50000   4.512581   25.199365    4.385300
128.611592   26.628324   105.031047
 0.75000   4.512581   25.212113    4.385300
128.647963   27.232204   119.641906
 1.00000   4.512581   25.227047    4.385300
128.689715   28.006462   157.170832

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.526395  -40.745686    -1.941176
-268.507830   -7.279911  -257.814843
 0.25000  -4.526395  -40.730395    -1.941176
-268.468060   -7.377440  -284.051156
 0.50000  -4.526395  -40.716671    -1.941176
-268.433388   -8.561038  -310.695278
 0.75000  -4.526395  -40.703278    -1.941176
-268.399894   -10.960489  -337.837279
 1.00000  -4.526395  -40.690432    -1.941176
-268.378534   -14.288771  -365.506000

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   7.410924   42.387411   10.067050
204.002420   52.819795   292.782152
 0.25000   7.410924   42.398221   10.067050
204.033718   48.915673   249.208271
 0.50000   7.410924   42.410160   10.067050
204.068431   45.607917   206.322227
 0.75000   7.410924   42.422903   10.067050
204.104758   43.142169   238.276863
 1.00000   7.410924   42.437827   10.067050
204.146454   40.983020   329.449440

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -7.415681  -98.064202   -1.441677
-481.548865   -7.672140  -622.470319
 0.25000  -7.415681  -98.048919   -1.441677
-481.509151   -7.245847  -657.394903
 0.50000  -7.415681  -98.035198   -1.441677
-481.474523   -9.798700  -693.033570
 0.75000  -7.415681  -98.021809   -1.441677
-481.441074   -16.664502  -729.685190
 1.00000  -7.415681  -98.008967   -1.441677
-481.420253   -26.887592  -767.080653

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   7.874402   57.710092    9.837063
223.015091   49.218248   430.715424
 0.25000   7.874402   57.719823    9.837063
223.043267   45.476534   366.480383
 0.50000   7.874402   57.730569    9.837063
223.074519   42.520930   335.693726
 0.75000   7.874402   57.742038    9.837063
223.107223   40.395146   456.808060
 1.00000   7.874402   57.755472    9.837063
223.144762   38.621458   639.895142

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -7.845509  -193.076335   -1.206483
-603.390564   -6.712510   -1182.876
 0.25000  -7.845509  -193.062578   -1.206483
-603.354809   -7.099771   -1198.083
 0.50000  -7.845509  -193.050229   -1.206483
-603.323634   -10.665813   -1213.833
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1458

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   8.643941   67.596727    8.392463
317.254362   43.939271   575.240954
 0.25000   8.643941   77.404724    8.392463
324.303363   40.602331   625.183556
 0.50000   8.643941   88.534000    8.392463
347.940428   38.176550   714.911725
 0.75000   8.643941   100.436954    8.392463
370.426379   39.016400   927.771108
 1.00000   8.643941   114.016409    8.392463
401.278361   41.208620   1184.147

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -8.484087  -391.777598   -4.660705
-644.963335   -27.991167   -1736.760
 0.25000  -8.484087  -377.650415   -4.660705
-614.162470   -26.324518   -1704.449
 0.50000  -8.484087  -364.680911   -4.660705
-593.030553   -27.823661   -1672.590
 0.75000  -8.484087  -352.037554   -4.660705
-588.038697   -32.774675   -1641.641
 1.00000  -8.484087  -339.934282   -4.660705
-588.038697   -39.704416   -1611.471

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   2.785464   20.820700    5.714122
71.970926   24.783036   174.245471
 0.25000   2.785464   20.939630    5.714122
72.315305   20.251519   149.848269
 0.50000   2.785464   21.070969    5.714122
72.697269   16.279750   126.767735
 0.75000   2.785464   21.211156    5.714122
73.096985   12.839006   179.507771
 1.00000   2.785464   21.375350    5.714122
73.555799   9.929221   255.793281

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -2.768049  -84.617752   -0.215269
-235.277498   -2.019090  -523.603286
 0.25000  -2.768049  -84.449617   -0.215269
-234.840492   -1.792154  -524.530514
 0.50000  -2.768049  -84.298682   -0.215269
-234.459459   -1.569124  -525.669627
 0.75000  -2.768049  -84.151396   -0.215269
-234.091402   -5.755973  -527.324911
 1.00000  -2.768049  -84.010121   -0.215269
-233.860886   -12.589533  -529.103554

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   3.922748   42.621006    5.502672
138.481808   24.772428   373.984609
 0.25000   3.922748   42.631818    5.502672
138.513115   20.214283   349.431277
 0.50000   3.922748   42.643758    5.502672
138.547839   16.550792   378.080182
 0.75000   3.922748   42.656502    5.502672
138.584177   13.736916   551.933006
 1.00000   3.922748   42.671459    5.502672
138.625887   12.576661   774.107283

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.801971  -230.535167   -1.782274
-406.457095   -11.292532   -1299.864
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1459

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000  -3.801971  -230.519882   -1.782274
-406.417367   -10.160816   -1271.067
 0.50000  -3.801971  -230.506161   -1.782274
-406.382728   -10.495871   -1242.375
 0.75000  -3.801971  -230.492771   -1.782274
-406.349268   -13.987609   -1214.220
 1.00000  -3.801971  -230.479928   -1.782274
-406.328312   -19.384082   -1186.223

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.987780   56.805643    9.139442
220.389846   44.088924   462.374426
 0.25000   6.987780   56.815374    9.139442
220.418023   39.668102   420.956547
 0.50000   6.987780   56.826120    9.139442
220.449274   35.947747   427.175448
 0.75000   6.987780   56.837590    9.139442
220.481978   32.919708   589.819607
 1.00000   6.987780   56.851024    9.139442
220.519518   31.378217   824.727295

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -6.884929  -244.584556   -1.725927
-581.307565   -13.673230   -1409.493
 0.25000  -6.884929  -244.570800   -1.725927
-581.271809   -12.336839   -1402.307
 0.50000  -6.884929  -244.558450   -1.725927
-581.240634   -12.329071   -1395.624
 0.75000  -6.884929  -244.546400   -1.725927
-581.210520   -19.747693   -1389.583
 1.00000  -6.884929  -244.534841   -1.725927
-581.191660   -29.067322   -1384.198

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   8.865477   67.317598    7.767964
399.465018   39.592907   634.215327
 0.25000   8.865477   81.051936    7.767964
399.465018   35.712943   744.282525
 0.50000   8.865477   98.049990    7.767964
399.465018   35.141890   897.709352
 0.75000   8.865477   116.277421    7.767964
426.253172   36.979890   1152.629
 1.00000   8.865477   136.310138    7.767964
451.300287   40.103591   1440.371

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -8.654409  -495.041625   -5.480575
-563.817353   -36.019147   -2013.584
 0.25000  -8.654409  -473.722248   -5.480575
-561.676580   -34.191723   -1949.409
 0.50000  -8.654409  -453.537396   -5.480575
-561.676580   -33.396895   -1885.653
 0.75000  -8.654409  -433.886117   -5.480575
-561.676580   -38.246944   -1822.501
 1.00000  -8.654409  -415.124580   -5.480575
-561.676580   -44.922537   -1760.139

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   5.320734   27.606898    0.565206
471.494361   6.243704   383.578832
 0.25000   5.320734   41.735009    0.565206
471.494361   9.245057   595.228157
 0.50000   5.320734   63.250629    0.565206
471.494361   13.784276   830.437087
 0.75000   5.320734   86.452595    0.565206
471.494361   19.440403   1035.228
 1.00000   5.320734   110.226624    0.565206
471.494361   26.060871   1210.082
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1460

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -5.110252  -442.870642   -6.877281
-168.378398   -41.181165   -1346.519
 0.25000  -5.110252  -416.523898   -6.877281
-168.378398   -39.527874   -1247.304
 0.50000  -5.110252  -390.005583   -6.877281
-168.378398   -37.877907   -1148.096
 0.75000  -5.110252  -364.251117   -6.877281
-168.378398   -36.275387   -1049.090
 1.00000  -5.110252  -339.802107   -6.877281
-168.378398   -34.828951   -950.436649

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.799543   48.442538    0.574737
560.805687   7.899327   591.124266
 0.25000   6.799543   66.609630    0.574737
560.805687   10.857028   850.563969
 0.50000   6.799543   92.384658    0.574737
560.805687   16.225597   1171.479
 0.75000   6.799543   120.140584    0.574737
560.805687   22.806627   1495.672
 1.00000   6.799543   149.031968    0.574737
560.805687   31.866551   1806.297

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -6.456098  -626.861879   -10.601770
-302.676950   -64.154757   -2120.234
 0.25000  -6.456098  -595.072232   -10.601770
-302.676950   -59.179074   -1983.752
 0.50000  -6.456098  -563.639222   -10.601770
-302.676950   -54.877070   -1847.332
 0.75000  -6.456098  -533.092113   -10.601770
-302.676950   -51.400641   -1711.176
 1.00000  -6.456098  -504.033701   -10.601770
-302.676950   -49.037399   -1575.440

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   7.930737   62.181287    3.250893
545.988316   17.150559   687.369248
 0.25000   7.930737   78.958686    3.250893
545.988316   17.658731   894.887779
 0.50000   7.930737   102.602478    3.250893
545.988316   21.048747   1167.268
 0.75000   7.930737   128.064529    3.250893
545.988316   25.910502   1525.475
 1.00000   7.930737   154.609816    3.250893
545.988316   32.871208   1878.286

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -7.610730  -648.502242   -8.416164
-455.298326   -50.764302   -2425.482
 0.25000  -7.610730  -619.314769   -8.416164
-455.298326   -47.984977   -2297.056
 0.50000  -7.610730  -590.506295   -8.416164
-455.298326   -47.050787   -2168.637
 0.75000  -7.610730  -562.508035   -8.416164
-455.298326   -47.412847   -2040.606
 1.00000  -7.610730  -535.868505   -8.416164
-455.298326   -48.418171   -1913.221

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   9.324253   66.440669    7.101489
527.355790   35.972500   683.075651
 0.25000   9.324253   80.432514    7.101489
527.355790   34.172275   839.132078
 0.50000   9.324253   100.145453    7.101489
527.355790   35.036465   1049.533
 0.75000   9.324253   121.374398    7.101489
527.355790   37.409638   1351.995
 1.00000   9.324253   143.567873    7.101489
527.355790   41.567400   1687.283
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1461

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.059665  -577.779859   -7.118134
-560.847013   -44.595513   -2263.743
 0.25000   -9.059665  -553.444016   -7.118134
-560.847013   -42.360967   -2169.240
 0.50000   -9.059665  -529.425885   -7.118134
-560.847013   -41.273392   -2075.167
 0.75000   -9.059665  -506.083185   -7.118134
-560.847013   -44.640214   -1981.646
 1.00000   -9.059665  -483.873099   -7.118134
-560.847013   -50.580622   -1888.930

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.275655   50.483286    4.487651
198.678696   46.253936   216.334152
 0.25000   6.275655   50.488320    4.487651
198.694096   44.265991   196.698759
 0.50000   6.275655   50.493977    4.487651
198.711105   42.740520   183.760246
 0.75000   6.275655   50.500154    4.487651
198.729418   41.767171   189.063324
 1.00000   6.275655   50.506714    4.487651
198.748683   41.319551   207.161615

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.100609   -58.006779   -1.783458
-344.647302   -9.590716   -449.959465
 0.25000   -6.100609   -57.997604   -1.783458
-344.629761   -9.689931   -431.084773
 0.50000   -6.100609   -57.988670   -1.783458
-344.612986   -10.609049   -419.997957
 0.75000   -6.100609   -57.980001   -1.783458
-344.597333   -12.541047   -418.425781
 1.00000   -6.100609   -57.971846   -1.783458
-344.583137   -15.284092   -429.169280

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.137653   84.034293   12.701457
306.313924   97.760088   402.214072
 0.25000   10.137653   84.039323   12.701457
306.329301   86.301788   363.712431
 0.50000   10.137653   84.044977   12.701457
306.346286   75.837042   339.985470
 0.75000   10.137653   84.051151   12.701457
306.363571   67.674506   355.632727
 1.00000   10.137653   84.057706   12.701457
306.383807   61.251879   402.019788

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.970576   -133.432276   -1.446379
-614.230978   -10.338562   -1110.646
 0.25000   -9.970576   -133.423103   -1.446379
-614.213473   -11.025784   -1033.087
 0.50000   -9.970576   -133.414134   -1.446379
-614.196731   -12.799860   -972.659998
 0.75000   -9.970576   -133.405504   -1.446379
-614.181110   -18.439608   -933.229615
 1.00000   -9.970576   -133.397351   -1.446379
-614.166946   -26.621431   -917.925428

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.547613   104.685222   12.165892
322.418577   88.714652   599.912141
 0.25000   10.547613   104.830076   12.165892
322.861282   78.077301   548.553162
 0.50000   10.547613   104.992872   12.165892
323.350254   68.857665   540.289762
 0.75000   10.547613   105.170644   12.165892
323.876684   61.801275   596.825588
 1.00000   10.547613   105.359425   12.165892
324.430477   56.468183   698.861154
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1462

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S
```

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.197505	-266.758692	-1.478936
-744.394361	-10.678977	-2224.370	
0.25000	-10.197505	-266.494524	-1.478936
-743.890470	-11.333570	-2011.232	
0.50000	-10.197505	-266.236223	-1.478936
-743.408568	-13.946893	-1829.510	
0.75000	-10.197505	-265.987719	-1.478936
-742.958914	-19.920625	-1685.062	
1.00000	-10.197505	-265.752908	-1.478936
-742.551198	-28.241404	-1580.782	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.461871	120.935650	10.405957
417.864738	78.207467	817.802416	
0.25000	11.461871	128.075743	10.405957
437.838641	69.031572	813.890529	
0.50000	11.461871	136.114615	10.405957
459.907996	61.756961	851.784719	
0.75000	11.461871	144.888962	10.405957
483.672146	57.882715	950.045696	
1.00000	11.461871	154.194530	10.405957
508.567095	56.259691	1087.928	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.876449	-478.749080	-5.906460
-786.820065	-46.801661	-3289.220	
0.25000	-10.876449	-465.246477	-5.906460
-765.397230	-42.498611	-2915.030	
0.50000	-10.876449	-452.022282	-5.906460
-744.942700	-40.443703	-2589.526	
0.75000	-10.876449	-439.283517	-5.906460
-725.957642	-42.129533	-2313.870	
1.00000	-10.876449	-427.226839	-5.906460
-716.377355	-46.431090	-2090.691	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.630931	35.778325	8.410015
98.123628	47.573911	230.195820	
0.25000	3.630931	35.828629	8.410015
98.277402	37.960353	208.926604	
0.50000	3.630931	35.885164	8.410015
98.447246	28.879734	200.848275	
0.75000	3.630931	35.946900	8.410015
98.630102	21.552682	222.948513	
1.00000	3.630931	36.012459	8.410015
98.822464	15.558615	265.013344	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.613157	-108.016862	-0.245536
-288.287649	-2.588496	-948.556648	
0.25000	-3.613157	-107.925131	-0.245536
-288.112598	-2.379077	-853.631348	
0.50000	-3.613157	-107.835438	-0.245536
-287.945186	-2.253732	-771.289176	
0.75000	-3.613157	-107.749148	-0.245536
-287.788975	-5.732604	-704.204390	
1.00000	-3.613157	-107.667612	-0.245536
-287.647329	-10.949462	-652.911664	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.977420	68.425484	7.738500
162.409017	42.715190	526.571849	
0.25000	4.977420	68.430517	7.738500
162.424411	34.152852	488.829869	
0.50000	4.977420	68.436173	7.738500
162.441414	26.493154	503.017108	
0.75000	4.977420	68.442749	7.738500
162.459720	20.785541	585.209894	
1.00000	4.977420	68.448908	7.738500
162.478978	17.083903	713.070841	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1463
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.629595	-300.821432	-2.403006
-464.991390	-18.554777	-2455.085	
0.25000	-4.629595	-300.812257	-2.403006
-464.973859	-16.228507	-2173.359	
0.50000	-4.629595	-300.803286	-2.403006
-464.957092	-14.812285	-1925.408	
0.75000	-4.629595	-300.794656	-2.403006
-464.941447	-16.576108	-1713.813	
1.00000	-4.629595	-300.786501	-2.403006
-464.927259	-20.566216	-1539.950	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.227358	99.852551	12.201291
292.114866	81.866129	646.050323	
0.25000	9.227358	99.857080	12.201291
292.128721	69.590285	595.147194	
0.50000	9.227358	99.862171	12.201291
292.144024	58.828895	597.076082	
0.75000	9.227358	99.867730	12.201291
292.160499	50.177527	674.760908	
1.00000	9.227358	99.873633	12.201291
292.177831	44.997941	807.168121	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.830679	-322.972021	-2.314426
-694.926716	-20.704359	-2657.452	
0.25000	-8.830679	-322.963763	-2.314426
-694.910938	-18.501316	-2392.262	
0.50000	-8.830679	-322.955690	-2.314426
-694.895848	-18.063811	-2163.660	
0.75000	-8.830679	-322.947922	-2.314426
-694.881767	-22.899117	-1975.290	
1.00000	-8.830679	-322.940583	-2.314426
-694.868998	-30.295183	-1830.585	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.575499	120.654185	10.372362
501.130696	71.888629	899.653165	
0.25000	11.575499	131.045423	10.372362
506.916208	61.783435	926.558656	
0.50000	11.575499	142.765422	10.372362
518.736128	55.223038	993.668761	
0.75000	11.575499	155.551995	10.372362
547.946337	51.720726	1114.628	
1.00000	11.575499	169.079607	10.372362
576.775938	50.690611	1271.203	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.959475	-591.794205	-6.844699
-715.960790	-59.726881	-3873.539	
0.25000	-10.959475	-571.023379	-6.844699
-692.994801	-53.756130	-3415.331	
0.50000	-10.959475	-550.624258	-6.844699
-689.735508	-50.134597	-3014.194	
0.75000	-10.959475	-530.913575	-6.844699
-689.302867	-51.383454	-2669.145	
1.00000	-10.959475	-512.246573	-6.844699
-689.304794	-55.112367	-2382.041	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.821455	53.461660	0.717405
585.605206	9.258911	554.948683	
0.25000	6.821455	65.625266	0.717405
581.214850	11.022564	653.471231	
0.50000	6.821455	79.395449	0.717405
576.824399	14.240099	757.606086	
0.75000	6.821455	94.421949	0.717405
572.433849	18.761609	860.981367	
1.00000	6.821455	110.221883	0.717405
568.043498	24.087627	960.362241	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1464
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.374271	-503.069851	-7.889815
-234.637917	-70.088549	-2672.817	
0.25000	-6.374271	-475.864906	-7.889815
-234.637917	-64.293887	-2281.977	
0.50000	-6.374271	-448.986522	-7.889815
-234.637917	-59.247507	-1934.404	
0.75000	-6.374271	-422.909781	-7.889815
-234.637917	-54.949826	-1624.725	
1.00000	-6.374271	-398.133941	-7.889815
-234.637917	-51.320649	-1350.032	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.742123	87.019008	0.939560
674.525926	13.567867	868.039257	
0.25000	8.742123	101.367904	0.939560
674.040207	15.492800	968.541495	
0.50000	8.742123	117.577122	0.939560
673.554479	18.908555	1102.421	
0.75000	8.742123	135.272985	0.939560
673.068750	24.015157	1266.768	
1.00000	8.742123	153.904533	0.939560
672.583021	31.132544	1446.935	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.949797	-722.747856	-12.663214
-376.150420	-106.910039	-4175.033	
0.25000	-7.949797	-691.525501	-12.663214
-376.150420	-95.609429	-3595.420	
0.50000	-7.949797	-660.719200	-12.663214
-376.150420	-85.437167	-3080.975	
0.75000	-7.949797	-630.862828	-12.663214
-376.150420	-76.986030	-2623.690	
1.00000	-7.949797	-602.513186	-12.663214
-376.150420	-70.377177	-2221.598	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.059862	106.763623	4.695915
663.161319	29.423135	987.840791	
0.25000	10.059862	119.946794	4.695915
663.245889	27.099004	1061.538	
0.50000	10.059862	134.836335	4.695915
663.330462	26.763522	1182.379	
0.75000	10.059862	151.091791	4.695915
663.415035	28.642035	1356.157	
1.00000	10.059862	168.209585	4.695915
663.499607	32.894622	1559.899	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.277983	-760.693969	-10.269006
-556.942729	-87.537920	-4713.374	
0.25000	-9.277983	-732.106186	-10.269006
-556.942729	-79.034145	-4083.093	
0.50000	-9.277983	-703.904990	-10.269006
-556.942729	-72.621990	-3524.361	
0.75000	-9.277983	-676.574747	-10.269006
-556.942729	-68.584330	-3032.622	
1.00000	-9.277983	-650.626116	-10.269006
-556.942729	-66.523137	-2606.437	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.064077	119.236790	10.212819
660.508377	67.504392	970.487590	
0.25000	12.064077	130.227866	10.212819
660.596495	58.946842	1040.660	
0.50000	12.064077	142.642044	10.212819
660.684614	52.355220	1107.780	
0.75000	12.064077	156.194454	10.212819
660.772734	49.108099	1256.563	
1.00000	12.064077	170.465901	10.212819
660.860854	48.800027	1444.131	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1465
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.390800	-684.869458	-8.691282
-695.979493	-75.701748	-4379.379	
0.25000	-11.390800	-661.038499	-8.691282
-695.979493	-68.530792	-3831.140	
0.50000	-11.390800	-637.529238	-8.691282
-695.979493	-63.147813	-3342.783	
0.75000	-11.390800	-614.747790	-8.691282
-695.979493	-62.710923	-2922.913	
1.00000	-11.390800	-593.116138	-8.691282
-695.979493	-65.245175	-2566.382	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.324253	67.596727	10.067050
560.805687	52.819795	687.369248	
0.25000	9.324253	81.051936	10.067050
560.805687	48.915673	894.887779	
0.50000	9.324253	102.602478	10.067050
560.805687	45.607917	1171.479	
0.75000	9.324253	128.064529	10.067050
560.805687	43.142169	1525.475	
1.00000	9.324253	154.609816	10.067050
560.805687	41.567400	1878.286	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.059665	-648.502242	-10.601770
-644.963335	-64.154757	-2425.482	
0.25000	-9.059665	-619.314769	-10.601770
-614.162470	-59.179074	-2297.056	
0.50000	-9.059665	-590.506295	-10.601770
-603.323634	-54.877070	-2168.637	
0.75000	-9.059665	-562.508035	-10.601770
-603.293520	-51.400641	-2040.606	
1.00000	-9.059665	-535.868505	-10.601770
-603.274659	-50.580622	-1913.221	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.064077	120.935650	12.701457
674.525926	97.760088	987.840791	
0.25000	12.064077	131.045423	12.701457
674.040207	86.301788	1061.538	
0.50000	12.064077	142.765422	12.701457
673.554479	75.837042	1182.379	
0.75000	12.064077	156.194454	12.701457
673.068750	67.674506	1356.157	
1.00000	12.064077	170.465901	12.701457
672.583021	61.251879	1559.899	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.390800	-760.693969	-12.663214
-786.820065	-106.910039	-4713.374	
0.25000	-11.390800	-732.106186	-12.663214
-765.397230	-95.609429	-4083.093	
0.50000	-11.390800	-703.904990	-12.663214
-744.942700	-85.437167	-3524.361	
0.75000	-11.390800	-676.574747	-12.663214
-725.957642	-76.986030	-3032.622	
1.00000	-11.390800	-650.626116	-12.663214
-716.377355	-70.377177	-2606.437	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.064077	120.935650	12.701457
674.525926	97.760088	987.840791	
0.25000	12.064077	131.045423	12.701457
674.040207	86.301788	1061.538	
0.50000	12.064077	142.765422	12.701457
673.554479	75.837042	1182.379	
0.75000	12.064077	156.194454	12.701457
673.068750	67.674506	1525.475	
1.00000	12.064077	170.465901	12.701457
672.583021	61.251879	1878.286	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1466
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.390800	-760.693969	-12.663214
-786.820065	-106.910039	-4713.374	
0.25000	-11.390800	-732.106186	-12.663214
-765.397230	-95.609429	-4083.093	
0.50000	-11.390800	-703.904990	-12.663214
-744.942700	-85.437167	-3524.361	
0.75000	-11.390800	-676.574747	-12.663214
-725.957642	-76.986030	-3032.622	
1.00000	-11.390800	-650.626116	-12.663214
-716.377355	-70.377177	-2606.437	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.064077	120.935650	12.701457
674.525926	97.760088	987.840791	
0.25000	12.064077	131.045423	12.701457
674.040207	86.301788	1061.538	
0.50000	12.064077	142.765422	12.701457
673.554479	75.837042	1182.379	
0.75000	12.064077	156.194454	12.701457
673.068750	67.674506	1525.475	
1.00000	12.064077	170.465901	12.701457
672.583021	61.251879	1878.286	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.390800	-760.693969	-12.663214
-786.820065	-106.910039	-4713.374	
0.25000	-11.390800	-732.106186	-12.663214
-765.397230	-95.609429	-4083.093	
0.50000	-11.390800	-703.904990	-12.663214
-744.942700	-85.437167	-3524.361	
0.75000	-11.390800	-676.574747	-12.663214
-742.958914	-76.986030	-3032.622	
1.00000	-11.390800	-650.626116	-12.663214
-742.551198	-70.377177	-2606.437	

ELEM 118 ========== LENGTH = 4.928231

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.190276	20.688447	5.536328
66.946671	27.490479	158.178934	
0.25000	5.190276	20.700167	5.536328
66.977876	26.196187	197.532346	
0.50000	5.190276	20.712920	5.536328
67.011087	24.958600	240.039286	
0.75000	5.190276	20.726418	5.536328
67.045955	23.764081	285.029628	
1.00000	5.190276	20.741793	5.536328
67.086853	22.662096	331.816107	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.064425	-42.768730	-0.580557
-255.317001	-13.576825	-365.945444	
0.25000	-5.064425	-42.753180	-0.580557
-255.278186	-16.584190	-373.338364	
0.50000	-5.064425	-42.739239	-0.580557
-255.244490	-20.000787	-381.079729	
0.75000	-5.064425	-42.725748	-0.580557
-255.214255	-24.943533	-388.883575	
1.00000	-5.064425	-42.712927	-0.580557
-255.192944	-30.116893	-396.817267	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.523665	38.380283	9.843060
98.322492	40.235493	331.259123	
0.25000	8.523665	38.391999	9.843060
98.353651	36.768459	417.581522	
0.50000	8.523665	38.404748	9.843060
98.386816	33.486146	512.024793	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1467
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3

0.75000	8.523665	38.418241	9.843060
98.421637	30.459874	613.338481	
1.00000	8.523665	38.433607	9.843060
98.462474	28.028353	720.902553	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.302080	-99.191709	-0.607368
-459.270927	-25.617739	-767.747049	
0.25000	-8.302080	-99.176166	-0.607368
-459.232171	-31.780940	-769.848261	
0.50000	-8.302080	-99.162230	-0.607368
-459.198521	-39.020555	-772.386299	
0.75000	-8.302080	-99.148743	-0.607368
-459.168523	-47.411055	-775.060769	
1.00000	-8.302080	-99.135926	-0.607368
-459.147245	-56.749290	-777.979542	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.089699	53.785220	9.503818
94.844595	39.072588	641.962277	
0.25000	9.089699	53.795765	9.503818
94.872649	35.689103	781.249596	
0.50000	9.089699	53.807240	9.503818
94.902508	32.623836	941.966042	
0.75000	9.089699	53.819385	9.503818
94.933857	29.940068	1121.055	
1.00000	9.089699	53.832217	9.503818
94.970624	27.500215	1314.199	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.809622	-183.966238	-0.643824
-571.417737	-25.937272	-1248.954	
0.25000	-8.809622	-183.952247	-0.643824
-571.382843	-31.227278	-1228.423	
0.50000	-8.809622	-183.939704	-0.643824
-571.352548	-37.752176	-1208.357	
0.75000	-8.809622	-183.927564	-0.643824
-571.325496	-45.510996	-1188.441	
1.00000	-8.809622	-183.916028	-0.643824
-571.306339	-54.337142	-1168.782	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.781890	83.038414	8.197976
216.964906	41.899474	1185.702	
0.25000	9.781890	94.003907	8.197976
239.148872	41.560419	1396.767	
0.50000	9.781890	105.948573	8.197976
261.255469	41.788613	1616.591	
0.75000	9.781890	118.612952	8.197976
286.307574	42.377538	1845.904	
1.00000	9.781890	132.750783	8.197976
320.009658	43.500910	2077.470	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.339723	-357.626115	-3.546421
-597.955322	-38.658693	-1611.841	
0.25000	-9.339723	-343.304630	-3.546421
-568.204320	-41.641690	-1560.687	
0.50000	-9.339723	-330.186941	-3.546421
-550.227956	-45.659897	-1509.908	
0.75000	-9.339723	-317.502221	-3.546421
-532.196501	-50.703604	-1459.282	
1.00000	-9.339723	-305.469627	-3.546421
-531.110893	-56.652927	-1408.964	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.206104	21.335611	4.089073
25.634177	10.488361	256.614809	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1468
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	3.206104	21.464493	4.089073
25.977055	8.437583	319.439488	
0.50000	3.206104	21.604749	4.089073
26.342000	6.701439	390.301523	
0.75000	3.206104	21.753182	4.089073
26.725155	5.216271	467.291225	
1.00000	3.206104	21.922236	4.089073
27.174527	4.235252	549.341931	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.110665	-80.652559	-0.240753
-225.023219	-11.964579	-529.302177	
0.25000	-3.110665	-80.421564	-0.240753
-224.596738	-14.788786	-516.464186	
0.50000	-3.110665	-80.328255	-0.240753
-224.226461	-17.841115	-503.667349	
0.75000	-3.110665	-80.179888	-0.240753
-223.895830	-21.364567	-490.950269	
1.00000	-3.110665	-80.038890	-0.240753
-223.661683	-25.171843	-478.242102	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.478320	44.866073	4.060027
86.258347	13.857057	775.219536	
0.25000	4.478320	44.877789	4.060027
86.289518	12.904857	895.618073	
0.50000	4.478320	44.890540	4.060027
86.322695	12.288978	1048.941	
0.75000	4.478320	44.904034	4.060027
86.357527	11.988018	1231.255	
1.00000	4.478320	44.919402	4.060027
86.398379	12.155053	1449.927	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.197775	-209.759823	-1.225906
-377.436641	-18.672754	-1186.416	
0.25000	-4.197775	-209.744279	-1.225906
-377.397870	-20.203520	-1142.363	
0.50000	-4.197775	-209.730341	-1.225906
-377.364209	-22.240817	-1098.407	
0.75000	-4.197775	-209.717853	-1.225906
-377.334151	-24.814052	-1054.613	
1.00000	-4.197775	-209.704035	-1.225906
-377.312865	-27.884912	-1010.887	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.014863	57.134463	8.076764
124.364049	32.152362	826.554160	
0.25000	8.014863	57.145008	8.076764
124.392102	29.763697	970.503655	
0.50000	8.014863	57.156483	8.076764
124.421961	27.680053	1146.870	
0.75000	8.014863	57.168628	8.076764
124.453310	25.857819	1356.988	
1.00000	8.014863	57.182459	8.076764
124.490077	24.385713	1591.044	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.655038	-227.152680	-1.338665
-544.840909	-27.852932	-1384.692	
0.25000	-7.655038	-227.138690	-1.338665
-544.806015	-32.135897	-1348.599	

```
 0.50000    -7.655038  -227.126146    -1.338665
-544.775719  -37.359520   -1312.676
 0.75000    -7.655038  -227.114007    -1.338665
-544.748668  -43.514458   -1276.945
 1.00000    -7.655038  -227.102471    -1.338665
-544.729510   -50.513538   -1241.442
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING        LOAD              >
                              1469

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     9.942704   97.855965    6.996024
308.539166   41.031354   1441.296
 0.25000     9.942704  114.697569    6.996024
308.539166   41.663314   1694.797
 0.50000     9.942704  133.064578    6.996024
326.209858   43.141693   1945.508
 0.75000     9.942704  152.586935    6.996024
351.089959   45.220311   2193.726
 1.00000     9.942704  173.781663    6.996024
373.246629   47.930462   2433.942

 COMB DB-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -9.454257  -444.141641   -5.214708
-494.922182  -44.093798   -1760.238
 0.25000    -9.454257  -422.625577   -5.214708
-483.959478  -45.951221   -1690.816
 0.50000    -9.454257  -402.326555   -5.214708
-483.959478  -48.592848   -1621.547
 0.75000    -9.454257  -382.718260   -5.214708
-483.959478  -52.014209   -1552.476
 1.00000    -9.454257  -364.164184   -5.214708
-483.959478  -56.140753   -1483.772

 COMB DB-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     5.718181   77.593909    0.440728
461.164030   26.463554   1208.603
 0.25000     5.718181   99.123370    0.440728
461.164030   30.497029   1398.907
 0.50000     5.718181  122.697679    0.440728
461.164030   35.498671   1556.389
 0.75000     5.718181  147.875568    0.440728
461.164030   41.375648   1680.374
 1.00000     5.718181  173.703898    0.440728
461.164030   48.051879   1773.531

 COMB DB-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -5.408179  -378.657163   -7.091002
-72.836588   -35.098095  -949.848823
 0.25000    -5.408179  -352.317856   -7.091002
-72.836588   -32.419269  -885.958495
 0.50000    -5.408179  -325.940962   -7.091002
-72.836588   -29.740989  -822.068211
 0.75000    -5.408179  -300.511780   -7.091002
-72.836588   -27.063728  -758.299280
 1.00000    -5.408179  -276.578843   -7.091002
-72.836588   -24.398913  -694.819819

 COMB DB-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     7.299907  106.908230    0.768312
565.013111   32.569059   1804.949
 0.25000     7.299907  132.652236    0.768312
565.013111   38.685560   2064.422
 0.50000     7.299907  160.783175    0.768312
565.013111   45.901965   2303.207
 0.75000     7.299907  190.787955    0.768312
565.013111   54.149179   2527.189
 1.00000     7.299907  222.084248    0.768312
565.013111   63.324994   2732.700

 COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -6.765989  -541.378915   -9.563350
-183.677713  -49.582521   -1574.769
 0.25000    -6.765989  -509.507156   -9.563350
-183.677713  -45.775963   -1477.833
 0.50000    -6.765989  -478.142520   -9.563350
-183.677713  -41.994319   -1380.899
 0.75000    -6.765989  -447.889365   -9.563350
-183.677713  -38.233326   -1284.078
 1.00000    -6.765989  -419.359970   -9.563350
-183.677713  -34.497201   -1187.606
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING        LOAD              >
                              1470

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     8.684324  114.870478    2.689487
500.388770   34.563588   1877.645
 0.25000     8.684324  138.484206    2.689487
500.388770   38.689012   2171.799
 0.50000     8.684324  164.283783    2.689487
500.388770   44.009640   2456.280
 0.75000     8.684324  191.798234    2.689487
500.388770   50.423867   2731.932
 1.00000     8.684324  220.544825    2.689487
500.388770   57.641004   2992.230

 COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -8.145190  -566.085774   -8.054633
-340.169841  -48.232739   -1912.745
 0.25000    -8.145190  -536.814578   -8.054633
-340.169841  -45.810681   -1809.882
 0.50000    -8.145190  -508.059527   -8.054633
-340.169841  -43.743276   -1707.060
 0.75000    -8.145190  -480.232048   -8.054633
-340.169841  -42.028193   -1604.437
 1.00000    -8.145190  -454.159764   -8.054633
-340.169841  -40.633340   -1502.201

 COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.365181  110.038931    6.001343
448.916996   42.656230   1681.450
 0.25000    10.365181  129.726751    6.001343
448.916996   44.333860   1961.008
 0.50000    10.365181  151.236891    6.001343
448.916996   47.049744   2235.047
 0.75000    10.365181  174.176670    6.001343
448.916996   50.769005   2504.212
 1.00000    10.365181  198.145317    6.001343
448.916996   55.393519   2762.963

 COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -9.832607  -509.640943   -6.945181
-456.610626  -49.959065   -1888.769
 0.25000    -9.832607  -485.235017   -6.945181
-456.610626  -50.673532   -1803.023
 0.50000    -9.832607  -461.261119   -6.945181
-456.610626  -51.991080   -1717.375
 0.75000    -9.832607  -438.135551   -6.945181
-456.610626  -53.959003   -1631.955
 1.00000    -9.832607  -416.323099   -6.945181
-456.610626  -56.485026   -1546.934

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     7.277858   36.481856    6.754415
128.004157   42.066904  208.236004
 0.25000     7.277858   36.487448    6.754415
128.019825   37.919009  233.633884
 0.50000     7.277858   36.493650    6.754415
128.037051   34.425716  264.297087
 0.75000     7.277858   36.500333    6.754415
128.055505   31.535483  316.167006
 1.00000     7.277858   36.507383    6.754415
128.074805   29.152344  383.296222

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -6.969656  -60.767790   -0.736008
-327.811005  -15.794318  -429.518168
 0.25000    -6.969656  -60.758955   -0.736008
-327.794063  -18.362951  -424.641097
 0.50000    -6.969656  -60.750347   -0.736008
-327.777889  -21.913913  -424.535951
 0.75000    -6.969656  -60.742124   -0.736008
-327.762866  -26.380691  -450.901892
 1.00000    -6.969656  -60.734420   -0.736008
-327.749363  -31.568790  -494.504504
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING        LOAD              >
                              1471

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    11.834739   62.073404   13.147951
184.847104   62.611337   403.831212
 0.25000    11.834739   62.078993   13.147951
184.862748   53.850959   461.163423
 0.50000    11.834739   62.085192   13.147951
184.879948   46.419437   535.432922
 0.75000    11.834739   62.091872   13.147951
184.898374   40.248603   647.440117
 1.00000    11.834739   62.098918   13.147951
184.917645   35.377115   795.512803

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.388777  -137.838433   -0.768649
-584.031071  -27.398184  -918.186406
 0.25000   -11.388777  -137.829600   -0.768649
-584.014166  -32.813311  -880.229466
 0.50000   -11.388777  -137.820995   -0.768649
-583.998026  -40.057606  -861.474444
 0.75000   -11.388777  -137.812774   -0.768649
-583.983035  -49.131985  -887.008589
 1.00000   -11.388777  -137.805073   -0.768649
-583.969563  -59.739446  -953.743458

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    12.539796   84.251825   12.294432
177.959370   58.203095   700.941703
 0.25000    12.539796   84.412780   12.294432
178.409771   50.414569   796.310647
 0.50000    12.539796   84.591279   12.294432
178.904939   44.001264   926.877192
 0.75000    12.539796   84.783636   12.294432
179.435405   38.784533   1110.584
 1.00000    12.539796   84.986549   12.294432
179.990189   34.529685   1367.418

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -11.829756  -257.193055   -0.940618
-692.705676  -28.688750   -1580.841
 0.25000   -11.829756  -256.938697   -0.940618
-692.219057  -33.749183   -1463.169
 0.50000   -11.829756  -256.690891   -0.940618
-691.754509  -40.644469   -1381.791
 0.75000   -11.829756  -256.454143   -0.940618
-691.322980  -49.251262   -1361.841
 1.00000   -11.829756  -256.232355   -0.940618
-690.935209  -59.109460   -1428.939

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.213193  116.883468   10.629597
306.607673   58.236351   1089.513
 0.25000    13.213193  124.921699   10.629597
326.793670   52.920784   1230.129
 0.50000    13.213193  133.837273   10.629597
349.084509   51.127417   1401.925
 0.75000    13.213193  143.435998   10.629597
372.970292   49.701382   1622.125
 1.00000    13.213193  153.544882   10.629597
397.851508   49.463736   1919.017

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.227094  -426.734553   -5.203431
-712.065803  -71.045551   -2090.979
 0.25000   -12.227094  -413.850413   -5.203431
-692.570135  -48.304988   -1888.557
 0.50000   -12.227094  -401.273055   -5.203431
-673.079132  -51.447711   -1734.308
 0.75000   -12.227094  -389.232590   -5.203431
-655.075968  -56.336979   -1649.761
 1.00000   -12.227094  -377.929664   -5.203431
-642.448051  -62.542751   -1678.035
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING        LOAD              >
                              1472

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     4.350051   29.920232    5.964377
45.227275   16.410170   265.778594
 0.25000     4.350051   29.976126    5.964377
45.383721   12.146809   307.035464
 0.50000     4.350051   30.038112    5.964377
45.555722    8.581303   363.781562
 0.75000     4.350051   30.104911    5.964377
45.739980    6.066226   441.534815
 1.00000     4.350051   30.175376    5.964377
45.932687    4.550815   549.226108

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -4.173300  -107.402792   -0.292337
-270.287707  -11.122030  -652.708143
 0.25000    -4.173300  -107.314466   -0.292337
-270.118651  -13.403048  -595.989484
 0.50000    -4.173300  -107.228415   -0.292337
-269.957255  -16.571383  -558.674971
 0.75000    -4.173300  -107.146205   -0.292337
-269.807346  -21.172078  -544.910009
 1.00000    -4.173300  -107.069190   -0.292337
-269.672626  -26.901922  -565.638697

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     5.989404   66.855112    5.528383
96.306933   18.304678   714.147985
 0.25000     5.989404   66.860703    5.528383
96.322596   15.799402   793.957758
 0.50000     5.989404   66.866904    5.528383
96.339815   14.266284   918.105497
 0.75000     5.989404   66.873586    5.528383
96.358262   13.531475   1093.862
 1.00000     5.989404   66.880635    5.528383
96.377555   13.436250   1350.124

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -5.364902  -274.448799   -2.044754
-419.898768  -20.500672   -1539.644
 0.25000    -5.364902  -274.439964   -2.044754
-419.881835  -21.657361   -1377.018
 0.50000    -5.364902  -274.431357   -2.044754
-419.865669  -23.935922   -1255.574
 0.75000    -5.364902  -274.423134   -2.044754
-419.850654  -27.278712   -1179.484
 1.00000    -5.364902  -274.415431   -2.044754
-419.837159  -31.367454   -1195.941

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.925589   87.312424   11.015394
176.726058   46.685653   808.969135
 0.25000    10.925589   87.317457   11.015394
176.740154   40.451690   905.082849
 0.50000    10.925589   87.323037   11.015394
176.755651   35.617825   1047.024
 0.75000    10.925589   87.329051   11.015394
176.772254   31.929416   1251.505
 1.00000    10.925589   87.335396   11.015394
176.789617   29.114863   1541.963

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.152917  -300.996772   -2.136468
-641.201340  -30.581869   -1830.608
 0.25000   -10.152917  -300.988820   -2.136468
-641.186101  -34.346295   -1679.488
 0.50000   -10.152917  -300.981074   -2.136468
-641.171552  -39.856182   -1570.070
 0.75000   -10.152917  -300.973673   -2.136468
-641.158038  -46.948772   -1516.726
 1.00000   -10.152917  -300.966741   -2.136468
-641.145893  -55.628279   -1559.602
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING        LOAD              >
                              1473

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.174480  128.085663    9.541625
387.418702   52.747835   1272.273
 0.25000    13.174480  140.027866    9.541625
394.160541   50.060211   1441.829
 0.50000    13.174480  153.266359    9.541625
417.790683   49.017366   1638.752
 0.75000    13.174480  167.494477    9.541625
446.522389   49.387355   1873.881
 1.00000    13.174480  182.447765    9.541625
474.521867   50.994703   2184.091

 COMB DL-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.135890  -511.576922   -7.211075
-623.640692  -55.712638   -2382.538
 0.25000   -12.135890  -492.024846   -7.211075
-602.556157  -55.288473   -2136.076
 0.50000   -12.135890  -472.869859   -7.211075
-591.261221  -56.688722   -1943.941
 0.75000   -12.135890  -454.481052   -7.211075
-591.202218  -59.714069   -1818.813
 1.00000   -12.135890  -437.200288   -7.211075
-591.197878  -63.977432   -1814.905

 COMB DL-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     7.183510   85.382313    0.648804
546.440045   25.210076   959.422803
 0.25000     7.183510   99.980883    0.648804
542.750042   28.744723   1089.875
 0.50000     7.183510  116.147859    0.648804
537.658840   33.525562   1207.768
 0.75000     7.183510  133.488208    0.648804
533.268237   39.403683   1319.287
 1.00000     7.183510  151.573537    0.648804
528.877634   45.975799   1443.520

 COMB DL-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -6.554440  -393.595290   -9.043640
-122.470379  -51.952983   -1360.974
 0.25000    -6.554440  -368.564160   -9.043640
-122.470379  -46.056082   -1158.924
 0.50000    -6.554440  -343.941588   -9.043640
-122.470379  -40.835752   -997.438927
 0.75000    -6.554440  -320.171677   -9.043640
-122.470379  -36.199852   -867.436821
 1.00000    -6.554440  -297.773538   -9.043640
-122.470379  -32.008203   -798.770139

 COMB DL-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     9.203397  127.598011    1.090672
646.457374   32.725670   1446.105
 0.25000     9.203397  144.632899    1.090672
645.971629   38.011842   1612.354
 0.50000     9.203397  163.487843    1.090672
645.485883   44.950185   1794.660
 0.75000     9.203397  183.725195    1.090672
645.000137   53.452480   1995.906
 1.00000     9.203397  204.894187    1.090672
644.514392   62.981843   2248.181

 COMB DL-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -8.115805  -578.764710   -12.921472
-241.710049  -71.174931   -2222.597
 0.25000    -8.115805  -549.873774   -12.921472
-241.710049  -62.682431   -1926.013
 0.50000    -8.115805  -521.495485   -12.921472
-241.710049  -55.257685   -1679.183
 0.75000    -8.115805  -494.133297   -12.921472
-241.710049  -48.834273   -1483.156
 1.00000    -8.115805  -468.368686   -12.921472
-241.710049  -43.144745   -1393.285
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING        LOAD              >
                              1474

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    11.079642  140.183938    3.539310
587.136197   34.942511   1559.723
 0.25000    11.079642  155.813821    3.539310
587.220773   37.955045   1751.887
 0.50000    11.079642  173.113166    3.539310
587.305348   42.805428   1971.952
 0.75000    11.079642  191.682459    3.539310
587.389924   49.195232   2223.694
 1.00000    11.079642  211.109664    3.539310
587.474499   56.662595   2553.328

 COMB DL-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -9.913179  -627.612700   -10.871720
-413.917221  -66.990845   -2607.106
 0.25000    -9.913179  -601.139913   -10.871720
-413.917221  -61.037382   -2275.611
 0.50000    -9.913179  -575.141613   -10.871720
-413.917221  -56.552514   -2007.321
 0.75000    -9.913179  -550.078063   -10.871720
-413.917221  -53.387055   -1807.384
 1.00000    -9.913179  -526.477842   -10.871720
-413.917221  -51.207730   -1745.936

 COMB DL-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.548457  138.599647    8.517967
551.370819   50.992433   1444.664
 0.25000    13.548457  151.629916    8.517967
551.458941   49.704930   1628.356
 0.50000    13.548457  166.051939    8.517967
551.547064   50.463949   1842.491
 0.75000    13.548457  181.532739    8.517967
551.635187   52.948325   2096.041
 1.00000    13.548457  197.728863    8.517967
551.723309   56.733021   2428.172

 COMB DL-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.436434  -575.840427   -9.317983
-566.054722  -65.912235   -2567.053
 0.25000   -12.436434  -553.771885   -9.317983
-566.054722  -63.607233   -2277.642
 0.50000   -12.436434  -532.099049   -9.317983
-566.054722  -63.179774   -2048.376
 0.75000   -12.436434  -511.205573   -9.317983
-566.054722  -64.449154   -1888.802
 1.00000   -12.436434  -491.532019   -9.317983
-566.054722  -67.008058   -1858.751

 COMB      DB ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.365181  114.870478    9.843060
565.013111   42.656230   1877.645
 0.25000    10.365181  138.484206    9.843060
565.013111   44.333860   2171.799
 0.50000    10.365181  164.283783    9.843060
565.013111   47.049744   2456.280
 0.75000    10.365181  191.798234    9.843060
565.013111   54.149179   2731.932
 1.00000    10.365181  222.084248    9.843060
565.013111   63.324994   2992.230

 COMB      DB ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -9.832607  -566.085774   -9.563350
-597.955322  -49.959065   -1912.745
 0.25000    -9.832607  -536.814578   -9.563350
-571.382843  -50.673532   -1809.882
 0.50000    -9.832607  -508.059527   -9.563350
-571.352548  -51.991080   -1717.375
 0.75000    -9.832607  -480.232048   -9.563350
-571.325496  -53.959003   -1631.955
 1.00000    -9.832607  -454.159764   -9.563350
-571.306339  -56.749290   -1546.934
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING        LOAD              >
                              1475

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.548457  140.183938   13.147951
646.457374   62.611337   1559.723
 0.25000    13.548457  155.813821   13.147951
645.971629   53.920784   1751.887
 0.50000    13.548457  173.113166   13.147951
645.485883   51.127417   1971.952
 0.75000    13.548457  191.682459   13.147951
645.000137   53.452480   2223.694
 1.00000    13.548457  211.109664   13.147951
644.514392   62.981843   2553.328

 COMB      DL ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.436434  -627.612700   -12.921472
-712.065803  -71.174931   -2607.106
 0.25000   -12.436434  -601.139913   -12.921472
-692.570135  -63.607233   -2277.642
 0.50000   -12.436434  -575.141613   -12.921472
-691.754509  -63.179774   -2048.376
 0.75000   -12.436434  -550.078063   -12.921472
-691.322980  -64.449154   -1888.802
 1.00000   -12.436434  -526.477842   -12.921472
-690.935209  -67.008058   -1858.751

 COMB      CAR ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.548457  140.183938   13.147951
646.457374   62.611337   1877.645
 0.25000    13.548457  155.813821   13.147951
645.971629   53.920784   2171.799
 0.50000    13.548457  173.113166   13.147951
645.485883   51.127417   2456.280
 0.75000    13.548457  191.798234   13.147951
645.000137   54.149179   2731.932
 1.00000    13.548457  222.084248   13.147951
644.514392   63.324994   2992.230

 COMB      CAR ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -12.436434  -627.612700   -12.921472
-712.965803  -71.174931   -2607.106
 0.25000   -12.436434  -601.139913   -12.921472
-692.570135  -63.607233   -2277.642
 0.50000   -12.436434  -575.141613   -12.921472
-691.754509  -63.179774   -2048.376
 0.75000   -12.436434  -550.078063   -12.921472
-691.322980  -64.449154   -1888.802
 1.00000   -12.436434  -526.477842   -12.921472
-690.935209  -67.008058   -1858.751

 COMB   DESIGN ------------------ MAX
```

```
 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.548457  140.183938   13.147951
646.457374   62.611337  1877.645
 0.25000   13.548457  155.813821   13.147951
645.971629   53.920784   2171.799
 0.50000   13.548457  173.113166   13.147951
645.485883   51.127417   2456.280
 0.75000   13.548457  191.798234   13.147951
645.000137   54.149179   2731.932
 1.00000   13.548457  222.084248   13.147951
644.514392   63.324994   2992.230

 COMB  DESIGN  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.436434  -627.612700  -12.921472
-712.965803  -71.174931  -2607.106
 0.25000  -12.436434  -601.139913  -12.921472
-692.570135  -63.607233  -2277.642
 0.50000  -12.436434  -575.141613  -12.921472
-691.754509  -63.179774  -2048.376
 0.75000  -12.436434  -550.078063  -12.921472
-691.322980  -64.449154  -1888.802
 1.00000  -12.436434  -526.477842  -12.921472
-690.935209  -67.008058  -1858.751
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<              MOVING              LOAD              >
                                   1476

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      119 ================== LENGTH
=     4.927598

 COMB DB-G1-1  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   5.885277   21.134937    5.671316
 49.595510   22.366725   332.748025
 0.25000   5.885277   21.147093    5.671316
 49.625510   20.185561   369.153673
 0.50000   5.885277   21.160206    5.671316
 49.658011   18.025738   406.985068
 0.75000   5.885277   21.174078    5.671316
 49.692520   15.907177   445.817267
 1.00000   5.885277   21.188826    5.671316
 49.733144   13.831661   485.462142

 COMB DB-G1-1  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.615425   -36.160353   -0.619042
-203.215215  -29.128074  -396.998150
 0.25000   -5.615425   -36.144560   -0.619042
-203.176810  -32.387483  -390.603170
 0.50000   -5.615425   -36.130480   -0.619042
-203.143705  -36.382015  -384.208191
 0.75000   -5.615425   -36.116886   -0.619042
-203.111811  -41.011845  -377.891401
 1.00000   -5.615425   -36.104003   -0.619042
-203.089549  -46.215316  -371.751524

 COMB DB-G1-2  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.669531   39.280033    9.036605
 76.978741   28.453912   722.528588
 0.25000    9.669531   39.292184    9.036605
 77.008694   25.004493   797.963538
 0.50000    9.669531   39.305292    9.036605
 77.041148   21.759599   877.489633
 0.75000    9.669531   39.319160    9.036605
 77.075609   18.688147   961.281132
 1.00000    9.669531   39.334899    9.036605
 77.116171   15.863474   1048.126

 COMB DB-G1-2  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.208690   -82.645148   -1.461200
-369.961008  -55.182373  -778.229804
 0.25000   -9.208690   -82.629364   -1.461200
-369.922660  -58.731425  -756.787894
 0.50000   -9.208690   -82.615289   -1.461200
-369.889602  -63.699631  -739.345983
 0.75000   -9.208690   -82.601699   -1.461200
-369.857754  -70.027192  -720.051244
 1.00000   -9.208690   -82.588821   -1.461200
-369.835699  -77.574525  -700.955407

 COMB DB-G1-3  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.340412   54.248436    8.567764
108.646849   28.590523   1315.969
 0.25000   10.340412   54.259372    8.567764
108.673817   25.368668   1427.109
 0.50000   10.340412   54.271171    8.567764
108.703037   22.389241   1553.618
 0.75000   10.340412   54.283653    8.567764
108.734062   19.591564   1695.093
 1.00000   10.340412   54.297820    8.567764
108.770582   16.978925   1847.632

 COMB DB-G1-3  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.796274  -152.026127   -1.877229
-473.390511  -52.489851   -1169.021
 0.25000   -9.796274  -152.011920   -1.877229
-473.355986  -55.227339   -1128.056
 0.50000   -9.796274  -151.999251   -1.877229
-473.326223  -59.324610   -1087.092
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<              MOVING              LOAD              >
                                   1477

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000   -9.796274  -151.987019   -1.877229
-473.297549  -64.863606   -1046.268
 1.00000   -9.796274  -151.975428   -1.877229
-473.277653  -71.719527   -1005.611

 COMB DB-G1-4  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.950637  103.320129    7.516608
222.426504   44.634757   2078.741
 0.25000   10.950637  114.684498    7.516608
244.840485   43.088287   2237.899
 0.50000   10.950637  126.971326    7.516608
268.148022   42.170066   2399.046
 0.75000   10.950637  139.982566    7.516608
296.870172   41.762432   2566.475
 1.00000   10.950637  154.454345    7.516608
330.183900   41.785872   2733.669

 COMB DB-G1-4  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.223201  -308.643465   -4.263400
-521.355637  -55.235648   -1409.096
 0.25000  -10.223201  -294.111956   -4.263400
-489.830106  -56.378610   -1348.379
 0.50000  -10.223201  -280.879802   -4.263400
-470.576735  -58.661062   -1287.662
 0.75000  -10.223201  -268.126098   -4.263400
-452.519074  -62.140081   -1227.062
 1.00000  -10.223201  -256.074697   -4.263400
-445.528769  -66.718054   -1166.601

 COMB DB-G2-1  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.649742   21.591259    3.021807
 20.258590    5.373078   550.033917
 0.25000    3.649742   21.724928    3.021807
 20.588198    4.271777   604.087480
 0.50000    3.649742   21.869134    3.021807
 20.945322    3.379875   655.433675
 0.75000    3.649742   22.021690    3.021807
 21.324522    2.623093   715.865342
 1.00000    3.649742   22.194849    3.021807
 21.770879    2.062708   780.075653

 COMB DB-G2-1  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.460467   -66.461023   -1.138990
-188.813138  -24.556626  -478.295488
 0.25000   -3.460467   -66.287374   -1.138990
-188.391157  -24.263190  -458.893359
 0.50000   -3.460467   -66.132532   -1.138990
-188.027390  -24.756588  -439.489923
 0.75000   -3.460467   -65.983035   -1.138990
-187.676932  -25.913745  -420.086505
 1.00000   -3.460467   -65.841360   -1.138990
-187.433759  -27.767637  -400.726960

 COMB DB-G2-2  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.050075   52.557594    3.023503
128.566507   13.878222   1450.772
 0.25000    5.050075   52.569746    3.023503
128.596471   13.197576   1533.039
 0.50000    5.050075   52.582855    3.023503
128.628937   12.917110   1642.610
 0.75000    5.050075   52.596724    3.023503
128.663410   12.899841   1784.830
 1.00000    5.050075   52.612466    3.023503
128.703987   13.126826   1949.878

 COMB DB-G2-2  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.606503  -173.707331   -2.220092
-329.054872  -27.056077   -1010.932
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<              MOVING              LOAD              >
                                   1478

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000   -4.606503  -173.691545   -2.220092
-329.016511  -26.079049  -962.527873
 0.50000   -4.606503  -173.677468   -2.220092
-328.983441  -25.752422  -914.124175
 0.75000   -4.606503  -173.663877   -2.220092
-328.951581  -26.214409  -865.720496
 1.00000   -4.606503  -173.650998   -2.220092
-328.929474  -27.462410  -817.343068

 COMB DB-G2-3  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.068099   64.383752    6.904410
151.827609   25.607455   1592.556
 0.25000    9.068099   64.394689    6.904410
151.854577   23.444053   1698.487
 0.50000    9.068099   64.406488    6.904410
151.883796   21.621655   1830.382
 0.75000    9.068099   64.419970    6.904410
151.914822   20.028564   1992.683
 1.00000    9.068099   64.433137    6.904410
151.951342   18.654105   2176.035

 COMB DB-G2-3  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.447603  -188.344503   -2.378791
-459.518452  -49.055406   -1241.606
 0.25000   -8.447603  -188.330295   -2.378791
-459.483927  -50.112808   -1191.049
 0.50000   -8.447603  -188.317626   -2.378791
-459.454164  -52.386722   -1140.539
 0.75000   -8.447603  -188.305395   -2.378791
-459.425490  -55.937429   -1090.153
 1.00000   -8.447603  -188.293803   -2.378791
-459.405594  -60.678518   -1039.815

 COMB DB-G2-4  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.045182  127.598300    6.271577
292.400724   49.149310   2434.636
 0.25000   11.045182  145.032144    6.271577
294.305461   48.814840   2622.538
 0.50000   11.045182  163.937317    6.271577
319.681456   49.362275   2801.551
 0.75000   11.045182  183.984273    6.271577
343.266927   50.687115   2974.791
 1.00000   11.045182  205.659482    6.271577
364.678459   52.643760   3137.456

 COMB DB-G2-4  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.285027   -385.885777   -5.720950
-431.237682  -55.008182   -1483.797
 0.25000  -10.285027   -364.080882   -5.720950
-410.500186  -54.416605   -1413.077
 0.50000  -10.285027   -343.639139   -5.720950
-403.406675  -54.833526   -1342.397
 0.75000  -10.285027   -323.981963   -5.720950
-403.406675  -56.319095   -1271.818
 1.00000  -10.285027   -305.480625   -5.720950
-403.406675  -58.800434   -1201.281

 COMB DB-G3-1  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.121618   117.046620    1.081008
394.449154   48.306231   1772.186
 0.25000    6.121618   139.307341    1.081008
394.449154   50.799763   1906.332
 0.50000    6.121618   163.602718    1.081008
394.449154   54.366467   2006.749
 0.75000    6.121618   189.432064    1.081008
394.449154   58.957804   2073.255
 1.00000    6.121618   215.793210    1.081008
394.449154   64.523755   2109.326
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<              MOVING              LOAD              >
                                   1479

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.721704  -335.864069   -6.593217
-44.191355  -24.513096  -694.609892
 0.25000   -5.721704  -309.240136   -6.593217
-44.191355  -22.015403  -649.650532
 0.50000   -5.721704  -282.764681   -6.593217
-44.191355  -19.518449  -604.691646
 0.75000   -5.721704  -257.417695   -6.593217
-44.191355  -17.022372  -559.733496
 1.00000   -5.721704  -233.759847   -6.593217
-44.191355  -14.527043  -514.794678

 COMB DB-G3-2  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.808734   160.698606    1.427293
515.056628   63.858571   2731.390
 0.25000    7.808747   187.310050    1.427293
515.056628   67.129626   2907.475
 0.50000    7.808747   216.290991    1.427293
515.056628   71.828708   3059.595
 0.75000    7.808747   247.080483    1.427293
515.056628   77.841334   3195.434
 1.00000    7.808747   279.042051    1.427293
515.056628   85.038557   3312.892

 COMB DB-G3-2  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.101702   -476.197466   -8.516220
-148.050991  -34.758243   -1187.364
 0.25000   -7.101702   -443.956354   -8.516220
-148.050991  -31.345852   -1114.065
 0.50000   -7.101702   -412.444320   -8.516220
-148.050991  -27.944975   -1040.768
 0.75000   -7.101702   -382.236663   -8.516220
-148.050991  -24.558462   -967.468855
 1.00000   -7.101702   -353.964694   -8.516220
-148.050991  -21.185046   -894.183257

 COMB DB-G3-3  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.452640   161.792557    2.682396
470.245744   59.125522   2991.498
 0.25000    9.452640   186.206841    2.682396
470.245744   61.421001   3197.121
 0.50000    9.452640   212.788010    2.682396
470.245744   65.034075   3387.806
 0.75000    9.452640   241.019819    2.682396
470.245744   69.907418   3567.718
 1.00000    9.452640   270.379275    2.682396
470.245744   75.834354   3731.503

 COMB DB-G3-3  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.709344   -493.546055   -8.286404
-283.292317  -40.195190   -1502.014
 0.25000   -8.709344   -463.933370   -8.286404
-283.292317  -36.754725   -1416.604
 0.50000   -8.709344   -435.040382   -8.286404
-283.292317  -33.702514   -1331.195
 0.75000   -8.709344   -407.341785   -8.286404
-283.292317  -31.088464   -1245.785
 1.00000   -8.709344   -381.407024   -8.286404
-283.292317  -28.941565   -1160.388

 COMB DB-G3-4  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.433505   149.312172    5.443971
418.770994   56.755479   2762.980
 0.25000   11.433505   169.667498    5.443971
418.770994   57.465405   2964.195
 0.50000   11.433505   191.826750    5.443971
418.770994   59.352392   3154.010
 0.75000   11.433505   215.367142    5.443971
418.770994   62.341544   3336.066
 1.00000   11.433505   239.846850    5.443971
418.770994   66.277141   3505.698
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<              MOVING              LOAD              >
                                   1480

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.636690   -442.590399   -7.384479
-375.083172  -55.570248   -1546.860
 0.25000  -10.636690   -417.899668   -7.384479
-375.083172  -53.622126   -1467.681
 0.50000  -10.636690   -393.816675   -7.384479
-375.083172  -52.553090   -1388.556
 0.75000  -10.636690   -370.717370   -7.384479
-375.083172  -52.429251   -1309.482
 1.00000  -10.636690   -349.094387   -7.384479
-375.083172  -53.179323   -1230.434

 COMB DL-G1-1  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.273810   30.583008    7.460018
80.803319   29.699135   384.442109
 0.25000    8.273810   30.589043    7.460018
80.818668   25.576560   440.869950
 0.50000    8.273810   30.595700    7.460018
80.835713   22.064734   497.410232
 0.75000    8.273810   30.602880    7.460018
80.854110   18.997895   554.383534
 1.00000    8.273810   30.610403    7.460018
80.873442   16.244911   611.417733

 COMB DL-G1-1  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.797636   -55.585994   -0.780753
-258.604190  -31.529092   -494.903231
 0.25000   -7.797636   -55.577419   -0.780753
-258.587386  -35.347179   -523.074930
 0.50000   -7.797636   -55.569078   -0.780753
-258.571183  -39.943219   -551.227739
 0.75000   -7.797636   -55.561131   -0.780753
-258.556005  -45.286660   -579.424980
 1.00000   -7.797636   -55.553713   -0.780753
-258.542262  -51.114554   -607.746978

 COMB DL-G1-2  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.518662   56.051997   11.292271
117.576273   36.788225   797.520605
 0.25000   13.518662   56.062030   11.292271
117.591598   30.858465   914.201336
 0.50000   13.518662   56.068684   11.292271
117.608617   25.887802   1031.669
 0.75000   13.518662   56.075860   11.292271
117.626985   21.746023   1151.251
 1.00000   13.518662   56.083380   11.292271
117.646285   18.245916   1272.037

 COMB DL-G1-2  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.739574  -123.375247   -1.635165
-458.925542  -59.863115  -954.279073
 0.25000  -12.739574  -123.366675   -1.635165
-458.908773  -64.722700  -996.837038
 0.50000  -12.739574  -123.358338   -1.635165
-458.892604  -71.977025  -1039.371
 0.75000  -12.739574  -123.350393   -1.635165
-458.877458  -78.842539  -1081.996
 1.00000  -12.739574  -123.342978   -1.635165
-458.863746  -87.860306  -1124.722

 COMB DL-G1-3  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.487615   80.918559   10.470391
143.552592   36.526524   1369.663
 0.25000   14.487615   81.092277   10.470391
143.993761   31.179754   1554.778
 0.50000   14.487615   81.283885   10.470391
144.483709   26.718137   1744.940
 0.75000   14.487615   81.490551   10.470391
145.012502   23.029819   1940.292
 1.00000   14.487615   81.707082   10.470391
145.568117   19.941936   2137.654
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<              MOVING              LOAD              >
                                   1481

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.349530  -218.090526   -2.033761
-554.224515  -59.229876   -1429.401
 0.25000  -13.349530  -217.843682   -2.033761
-553.741817  -63.198464   -1472.701
 0.50000  -13.349530  -217.603588   -2.033761
-553.276396  -68.531911   -1515.980
 0.75000  -13.349530  -217.374794   -2.033761
-552.840401  -75.317974   -1559.298
 1.00000  -13.349530  -217.161248   -2.033761
-552.445724  -83.199563   -1602.608

 COMB DL-G1-4  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.971049   127.222841    9.317574
262.763810   51.651581   1920.417
 0.25000   14.971049   135.953593    9.317574
282.393281   48.933170   2167.693
 0.50000   14.971049   145.574923    9.317574
304.241448   47.192851   2405.530
 0.75000   14.971049   155.931761    9.317574
327.858050   46.320514   2636.422
 1.00000   14.971049   166.761090    9.317574
352.565748   46.375773   2854.578

 COMB DL-G1-4  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.521060  -360.664951   -5.140183
-588.689207  -62.873351   -1678.289
 0.25000  -13.521060  -348.205890   -5.140183
-568.345625  -64.523111   -1710.772
 0.50000  -13.521060  -336.068027   -5.140183
-548.702262  -67.496652   -1742.911
 0.75000  -13.521060  -324.488285   -5.140183
-530.377865  -71.832907   -1775.643
 1.00000  -13.521060  -313.673009   -5.140183
-514.012367  -77.415508   -1807.989

 COMB DL-G2-1  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.050158   30.344889    3.237408
 29.224149    5.695038   565.098494
 0.25000    5.050158   30.405214    3.237408
 29.377394    4.375919   627.344740
 0.50000    5.050158   30.471752    3.237408
 29.547582    3.383226   705.324872
 0.75000    5.050158   30.543519    3.237408
 29.731263    2.706427   785.622519
 1.00000    5.050158   30.618712    3.237408
 29.924263    2.294585   867.426980

 COMB DL-G2-1  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.697543   -91.096498   -1.024320
-211.707646  -27.052092  -565.722458
 0.25000   -4.697543   -91.010781   -1.024320
-211.539955  -27.733401  -578.490922
 0.50000   -4.697543   -90.927407   -1.024320
-211.378267  -28.791544  -591.253826
 0.75000   -4.697543   -90.847958   -1.024320
-211.226800  -30.344517  -603.993788
 1.00000   -4.697543   -90.773804   -1.024320
-211.089682  -33.638905  -616.778331

 COMB DL-G2-2  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.971007   74.463718    3.163544
117.681801   15.220174   1351.198
 0.25000    6.971007   74.469752    3.163544
117.697144   14.654168   1507.129
 0.50000    6.971007   74.476408    3.163544
117.714183   14.473333   1674.777
 0.75000    6.971007   74.483587    3.163544
117.732572   14.652789   1858.263
 1.00000    6.971007   74.491109    3.163544
117.751896   15.236314   2049.538
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<              MOVING              LOAD              >
                                   1482

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.033726   -225.271250   -2.384144
-347.606345  -31.542644   -1195.960
 0.25000   -6.033726   -225.262676   -2.384144
-347.489549  -31.282428   -1210.580
 0.50000   -6.033726   -225.254337   -2.384144
-347.473355  -31.535994   -1224.932
 0.75000   -6.033726   -225.246390   -2.384144
-347.458184  -32.618480   -1239.375
 1.00000   -6.033726   -225.238872   -2.384144
-347.444450  -34.466230   -1253.698

 COMB DL-G2-3  ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.589634   91.432646    8.204878
162.428905   31.115038   1543.850
 0.25000   12.589634   91.438277    8.204878
162.442714   27.702621   1733.367
 0.50000   12.589634   91.444267    8.204878
162.458049   25.015538   1933.758
 0.75000   12.589634   91.450728    8.204878
162.474600   22.924091   2148.774
 1.00000   12.589634   91.457498    8.204878
162.491991   21.375358   2371.038

 COMB DL-G2-3  ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.383911   -252.418817   -2.728128
-519.111036  -55.438047   -1559.896
 0.25000  -11.383911   -252.411100   -2.728128
-519.095920  -57.686228   -1586.376
 0.50000  -11.383911   -252.403595   -2.728128
-519.081345  -61.017064   -1602.188
 0.75000  -11.383911   -252.396442   -2.728128
-519.067691  -65.626424   -1628.053
 1.00000  -11.383911   -252.389767   -2.728128
-519.055330  -71.318631   -1648.387

 COMB DL-G2-4  ------------------- MAX
```

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.799782  147.166748    7.618271
319.299823   53.281115    2184.745
 0.25000   14.799782  160.265469    7.618271
328.105045   52.558099    2464.903
 0.50000   14.799782  174.672841    7.618271
354.490932   52.897977    2725.672
 0.75000   14.799782  190.140841    7.618271
382.812154   54.157029    2968.631
 1.00000   14.799782  206.253156    7.618271
410.753612   56.419418    3189.648

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.289449 -430.114773   -6.999228
-507.996412  -64.456697   -1814.903
 0.25000  -13.289449 -411.309817   -6.999228
-486.648671  -63.949340   -1831.575
 0.50000  -13.289449 -392.943175   -6.999228
-465.956273  -64.624930   -1838.864
 0.75000  -13.289449 -375.385670   -6.999228
-463.404956  -66.559332   -1855.325
 1.00000  -13.289449 -358.972709   -6.999228
-463.398961  -69.783743   -1866.666

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.611239  111.896085    1.434608
431.636599   46.974768    1441.719
 0.25000    7.611239  128.234918    1.434608
427.246561   50.308997    1616.876
 0.50000    7.611239  146.145147    1.434608
422.856523   54.727254    1758.083
 0.75000    7.611239  165.280033    1.434608
418.466485   60.154354    1864.536
 1.00000    7.611239  185.046196    1.434608
414.076447   66.616747    1937.458
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1483

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.801978 -325.634856   -8.270246
-70.571965  -32.539718  -798.386378
 0.25000   -6.801978 -301.876464   -8.270246
-70.571965  -28.324896  -788.446798
 0.50000   -6.801978 -278.543498   -8.270246
-70.571965  -24.684429  -778.112537
 0.75000   -6.801978 -256.193245   -8.270246
-70.571965  -21.411475  -768.661448
 1.00000   -6.801978 -235.226231   -8.270246
-70.571965  -18.760147  -758.839649

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.761480  165.393695    1.951611
540.760207   64.541381    2246.281
 0.25000    9.761480  184.362257    1.951611
540.274523   69.333862    2496.861
 0.50000    9.761480  205.164166    1.951611
539.788840   75.358305    2719.274
 0.75000    9.761480  227.423560    1.951611
539.303157   82.548149    2918.502
 1.00000    9.761480  250.453094    1.951611
538.817474   91.148185    3085.808

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.366246 -477.750941  -10.901516
-176.161801  -43.871394   -1392.805
 0.25000   -8.366246 -450.259073  -10.901516
-176.161801  -38.512882   -1375.643
 0.50000   -8.366246 -423.291614  -10.901516
-176.161801  -33.821188   -1361.670
 0.75000   -8.366246 -397.472906  -10.901516
-176.161801  -29.655619   -1348.805
 1.00000   -8.366246 -373.270765  -10.901516
-176.161801  -26.376470   -1335.215

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.148625  174.126140    3.099167
497.103085   59.005326    2552.259
 0.25000   12.148625  191.519796    3.099167
497.187650   62.578471    2853.784
 0.50000   12.148625  210.595621    3.099167
497.272214   67.346964    3129.479
 0.75000   12.148625  231.011233    3.099167
497.356779   73.158756    3382.627
 1.00000   12.148625  252.138470    3.099167
497.441344   80.272719    3607.805

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.565667 -517.823590  -10.149283
-314.244392  -51.912704   -1745.749
 0.25000  -10.565667 -492.626455  -10.149283
-314.244392  -47.168133   -1744.638
 0.50000  -10.565667 -467.911927  -10.149283
-314.244392  -43.245172   -1743.081
 0.75000  -10.565667 -444.252570  -10.149283
-314.244392  -40.171267   -1742.626
 1.00000  -10.565667 -422.075002  -10.149283
-314.244392  -38.204869   -1741.391

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   15.067445  165.741037    6.513661
453.642058   59.163005    2428.048
 0.25000   15.067445  180.241356    6.513661
453.730169   60.090312    2724.699
 0.50000   15.067445  196.144058    6.513661
453.818280   62.327960    3000.305
 0.75000   15.067445  213.163791    6.513661
453.906392   65.714687    3257.660
 1.00000   15.067445  230.776956    6.513661
453.994503   70.430547    3492.005
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1484

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.472569 -479.391343   -9.053958
-434.671012  -67.617926   -1858.774
 0.25000  -13.472569 -458.385951   -9.053958
-434.671012  -65.233463   -1870.526
 0.50000  -13.472569 -437.783009   -9.053958
-434.671012  -64.005566   -1877.926
 0.75000  -13.472569 -418.059880   -9.053958
-434.671012  -64.048466   -1888.225
 1.00000  -13.472569 -399.571825   -9.053958
-434.671012  -65.464553   -1897.876

 COMB     DB -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.433505  161.792557    9.036605
515.056628   63.858571    2991.498
 0.25000   11.433505  187.310550    9.036605
515.056628   67.129626    3197.121
 0.50000   11.433505  216.290991    9.036605
515.056628   71.828708    3387.806
 0.75000   11.433505  247.080483    9.036605
515.056628   77.841334    3567.718
 1.00000   11.433505  279.042051    9.036605
515.056628   85.038557    3731.503

 COMB     DB -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.636690 -493.546055   -8.516220
-521.355637  -55.570248   -1746.860
 0.25000  -10.636690 -463.933370   -8.516220
-489.830106  -58.731425   -1467.681
 0.50000  -10.636690 -435.040382   -8.516220
-473.326223  -63.699631   -1388.556
 0.75000  -10.636690 -407.341785   -8.516220
-473.297549  -70.027192   -1309.482
 1.00000  -10.636690 -381.407024   -8.516220
-473.277653  -77.574525   -1230.434

 COMB     DL -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   15.067445  174.126140   11.292271
540.760207   64.541381    2552.259
 0.25000   15.067445  191.519796   11.292271
540.274523   69.333862    2853.784
 0.50000   15.067445  210.595621   11.292271
539.788840   75.358305    3129.479
 0.75000   15.067445  231.011233   11.292271
539.303157   82.548149    3382.627
 1.00000   15.067445  252.138470   11.292271
538.817474   91.148185    3607.805

 COMB     DL -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.521060 -517.823590  -10.901516
-588.689207  -67.617926   -1858.774
 0.25000  -13.521060 -492.626455  -10.901516
-568.345625  -65.233463   -1870.526
 0.50000  -13.521060 -467.911927  -10.901516
-553.276396  -70.977025   -1877.926
 0.75000  -13.521060 -444.252570  -10.901516
-552.840401  -78.842539   -1888.225
 1.00000  -13.521060 -422.075002  -10.901516
-552.445724  -87.860306   -1897.876

 COMB     CAR -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   15.067445  174.126140   11.292271
540.760207   64.541381    2991.498
 0.25000   15.067445  191.519796   11.292271
540.274523   69.333862    3197.121
 0.50000   15.067445  216.290991   11.292271
539.788840   75.358305    3387.806
 0.75000   15.067445  247.080483   11.292271
539.303157   82.548149    3567.718
 1.00000   15.067445  279.042051   11.292271
538.817474   91.148185    3731.503
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1485

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     CAR -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.521060 -517.823590  -10.901516
-588.689207  -67.617926   -1858.774
 0.25000  -13.521060 -492.626455  -10.901516
-568.345625  -65.233463   -1870.526
 0.50000  -13.521060 -467.911927  -10.901516
-553.276396  -70.977025   -1877.926
 0.75000  -13.521060 -444.252570  -10.901516
-552.840401  -78.842539   -1888.225
 1.00000  -13.521060 -422.075002  -10.901516
-552.445724  -87.860306   -1897.876

 COMB   DESIGN -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   15.067445  174.126140   11.292271
540.760207   64.541381    2991.498
 0.25000   15.067445  191.519796   11.292271
540.274523   69.333862    3197.121
 0.50000   15.067445  216.290991   11.292271
539.788840   75.358305    3387.806
 0.75000   15.067445  247.080483   11.292271
539.303157   82.548149    3567.718
 1.00000   15.067445  279.042051   11.292271
538.817474   91.148185    3731.503

 COMB   DESIGN -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.521060 -517.823590  -10.901516
-588.689207  -67.617926   -1858.774
 0.25000  -13.521060 -492.626455  -10.901516
-568.345625  -65.233463   -1870.526
 0.50000  -13.521060 -467.911927  -10.901516
-553.276396  -70.977025   -1877.926
 0.75000  -13.521060 -444.252570  -10.901516
-552.840401  -78.842539   -1888.225
 1.00000  -13.521060 -422.075002  -10.901516
-552.445724  -87.860306   -1897.876

 ELEM     120 ================== LENGTH
=    4.929017

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    6.537564   20.633670    4.715675
45.233289   13.715998  486.130855
 0.25000    6.537564   20.646129    4.715675
45.262958   11.705319  506.631733
 0.50000    6.537564   20.659501    4.715675
45.295128    9.709911  527.752109
 0.75000    6.537564   20.673570    4.715675
45.329229    7.762924  549.742884
 1.00000    6.537564   20.689526    4.715675
45.369506    5.850291  572.208837

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.162522  -23.653488   -1.138218
-123.929881  -45.172413  -371.757951
 0.25000   -6.162522  -23.637461   -1.138218
-123.889859  -46.804706  -356.553401
 0.50000   -6.162522  -23.623201   -1.138218
-123.856909  -49.138118  -341.348877
 0.75000   -6.162522  -23.609534   -1.138218
-123.825456  -52.137526  -326.144405
 1.00000   -6.162522  -23.596967   -1.138218
-123.796248  -55.743528  -310.942820

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.756050   38.889267    7.619259
75.191868   16.278139    1049.275
 0.25000   10.756050   38.901721    7.619259
75.221490   13.338174    1089.265
 0.50000   10.756050   38.915088    7.619259
75.253611   10.931940    1132.206
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1486

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000   10.756050   38.929152    7.619259
75.287664    8.852176    1178.098
 1.00000   10.756050   38.945100    7.619259
75.327878    6.832630    1226.829

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.106510  -56.430691   -3.122671
-240.412599  -75.914600  -700.947484
 0.25000  -10.106510  -56.414672   -3.122671
-240.372672  -76.854991  -668.999594
 0.50000  -10.106510  -56.400417   -3.122671
-240.339768  -79.273297  -637.052319
 0.75000  -10.106510  -56.386755   -3.122671
-240.308361  -83.189938  -605.104495
 1.00000  -10.106510  -56.373923   -3.122671
-240.279201  -88.398465  -573.169928

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.530245   55.121894    7.315824
153.908087   17.982105    1848.876
 0.25000   11.530245   55.133104    7.315824
153.934757   15.007996    1899.740
 0.50000   11.530245   55.145136    7.315824
153.963677   12.506273    1963.793
 0.75000   11.530245   55.157794    7.315824
153.994336   10.220892    2041.071
 1.00000   11.530245   55.172149    7.315824
154.030543    8.053442    2130.866

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.771123 -110.154731   -3.490954
-341.758796  -69.887184   -1005.612
 0.25000  -10.771123 -110.140312   -3.490954
-341.722840  -70.072356  -954.212334
 0.50000  -10.771123 -110.127482   -3.490954
-341.693217  -71.748379  -902.812745
 0.75000  -10.771123 -110.115185   -3.490954
-341.664940  -75.045425  -851.413156
 1.00000  -10.771123 -110.103634   -3.490954
-341.638685  -79.876537  -800.026448

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.079923  121.455728    7.244362
235.236279   42.677718    2734.552
 0.25000   12.079923  133.094897    7.244362
257.567449   40.461302    2818.340
 0.50000   12.079923  145.523201    7.244362
283.748914   38.987384    2901.031
 0.75000   12.079923  158.826343    7.244362
312.039934   38.245373    2988.094
 1.00000   12.079923  173.495412    7.244362
344.988798   37.881704    3075.464

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.118105 -255.137555   -5.207829
-435.754598  -65.208438   -1166.615
 0.25000  -11.118105 -240.393940   -5.207829
-404.283443  -64.596195   -1101.732
 0.50000  -11.118105 -226.997650   -5.207829
-376.875367  -65.232875   -1036.865
 0.75000  -11.118105 -214.173356   -5.207829
-356.354619  -67.211496  -971.997815
 1.00000  -11.118105 -202.156056   -5.207829
-339.128833  -70.472758  -907.141618

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    4.078813   21.622023    2.650436
47.459884    2.958265   280.529211
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1487

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000    4.078813   21.759031    2.650436
47.785849    1.976943   802.418354
 0.50000    4.078813   21.906083    2.650436
48.139317    1.441773   830.931978
 0.75000    4.078813   22.060803    2.650436
48.514034    1.259514   863.296576
 1.00000    4.078813   22.236248    2.650436
48.956560    1.330779   900.034228

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -3.803866  -48.748693   -2.136807
-143.152088  -39.716421  -407.714115
 0.25000   -3.803866  -48.572460   -2.136807
-142.712626  -25.959814  -378.839258
 0.50000   -3.803866  -48.415647   -2.136807
-142.350561  -25.659115  -356.964656
 0.75000   -3.803866  -48.265349   -2.136807
-142.004957  -26.224894  -335.090053
 1.00000   -3.803866  -48.124177   -2.136807
-141.684059  -27.449217  -313.215473

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.610385   61.953277    2.982021
184.161624   14.472655    1950.439
 0.25000    5.610385   61.963182    2.982021
184.191258   13.459942    1974.565
 0.50000    5.610385   61.976551    2.982021
184.223391   13.073601    2023.108
 0.75000    5.610385   61.990616    2.982021
184.257456   12.996503    2103.038
 1.00000    5.610385   62.006566    2.982021
184.297686   13.100138    2207.267

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.020230 -134.407471   -3.022278
-282.205233  -26.679499  -817.349553
 0.25000   -5.020230 -134.391450   -3.022278
-282.165282  -24.884099  -769.170141
 0.50000   -5.020230 -134.377194   -3.022278
-282.132367  -23.923136  -720.992788
 0.75000   -5.020230 -134.363531   -3.022278
-282.100948  -23.926537  -672.815436
 1.00000   -5.020230 -134.350697   -3.022278
-282.071776  -24.886069  -624.638107

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.081818   72.359192    6.193767
199.350166   19.706713    2177.061
 0.25000   10.081818   72.370401    6.193767
199.376836   17.706306    2216.348
 0.50000   10.081818   72.382433    6.193767
199.405756   16.205199    2278.278
 0.75000   10.081818   72.395092    6.193767
199.436415   14.989635    2369.481
 1.00000   10.081818   72.409446    6.193767
199.472622   13.953457    2482.956

 COMB DB-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.240258 -141.987106   -4.021384
-355.708760  -59.209353   -1039.818
 0.25000   -9.240258 -141.972689   -4.021384
-355.672804  -58.342126  -983.222501
 0.50000   -9.240258 -141.959859   -4.021384
-355.643180  -58.815914  -926.629004
 0.75000   -9.240258 -141.947562   -4.021384
-355.614903  -60.751256  -870.035508
 1.00000   -9.240258 -141.936311   -4.021384
-355.588648  -64.086996  -813.467130
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1488

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.124513  152.430120    6.641445
277.776675   53.501099    3137.902
 0.25000   12.124513  170.266616    6.641445
283.569601   52.115270    3243.875
 0.50000   12.124513  189.541042    6.641445
308.641358   51.688013    3337.636
 0.75000   12.124513  209.898970    6.641445
331.854409   52.294125    3423.824
 1.00000   12.124513  231.883168    6.641445
353.087211   53.520014    3499.934

 COMB DB-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.136578 -327.648634   -6.555695
-374.116842  -57.568023   -1201.286
 0.25000  -11.136578 -305.534366   -6.555695
-352.738139  -55.834302   -1131.195
 0.50000  -11.136578 -284.848140   -6.555695
-328.790094  -55.212646   -1061.116
 0.75000  -11.136578 -265.077341   -6.555695
-314.778445  -55.816583   -991.037337
 1.00000  -11.136578 -246.610053   -6.555695
-314.778445  -57.584082   -920.979264

 COMB DB-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    6.542057  145.809325    2.606220
296.905242   64.422666    2108.293
 0.25000    6.542057  168.535710    2.606220
296.905242   64.938272    2201.234
 0.50000    6.542057  193.299814    2.606220
296.905242   66.512160    2259.646
 0.75000    6.542057  219.568326    2.606220
296.905242   69.244480    2283.179
 1.00000    6.542057  246.340695    2.606220
296.905242   73.051094    2275.108

 COMB DB-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.071946 -305.044753   -5.664152
-92.228690  -14.502260  -514.785644
 0.25000   -6.071946 -278.066508   -5.664152
-92.228690  -12.719354  -479.262873
 0.50000   -6.071946 -251.297127   -5.664152
-92.228690  -10.937335  -443.740106
 0.75000   -6.071946 -225.791492   -5.664152
-92.228690   -9.156267  -408.217339
 1.00000   -6.071946 -202.130268   -5.664152
-92.228690   -7.376054  -372.694595

 COMB DB-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.340684  206.387648    3.565845
416.671320   85.129481    3311.843
 0.25000    8.340684  233.577072    3.565845
416.671320   85.868466    3417.668
 0.50000    8.340684  263.119157    3.565845
416.671320   87.972706    3497.992
 0.75000    8.340684  294.418947    3.565845
416.671320   91.546429    3560.771
 1.00000    8.340684  326.865762    3.565845
416.671320   96.427963    3601.828

 COMB DB-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.491802 -424.864747   -7.294228
-183.794731  -21.184837  -894.194372
 0.25000   -7.491802 -392.185662   -7.294228
-183.794731  -18.752113  -834.032174
 0.50000   -7.491802 -360.316105   -7.294228
-183.794731  -16.333788  -773.872456
 0.75000   -7.491802 -329.925556   -7.294228
-183.794731  -13.931576  -713.712739
 1.00000   -7.491802 -301.664437   -7.294228
-183.794731  -11.543829  -653.553045
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          1489

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.234855  199.362712    4.350864
424.845629   76.733379    3730.893
 0.25000   10.234855  224.305324    4.350864
424.845629   76.622433    3848.262
 0.50000   10.234855  251.398299    4.350864
424.845629   77.851423    3947.137
 0.75000   10.234855  280.099843    4.350864
424.845629   80.501111    4033.533
 1.00000   10.234855  309.903826    4.350864
424.845629   84.342868    4104.554

 COMB DB-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -9.313181 -431.012604   -7.714022
-283.937270  -28.409246   -1160.393
 0.25000   -9.313181 -400.996840   -7.714022
-283.937270  -25.299531   -1085.894
 0.50000   -9.313181 -371.775331   -7.714022
-283.937270  -22.690693   -1011.397
 0.75000   -9.313181 -343.907580   -7.714022
-283.937270  -20.645839   -936.899728
 1.00000   -9.313181 -317.986159   -7.714022
-283.937270  -19.204047   -862.402619

 COMB DB-G3-4 -------------------- MAX
```

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.489093  180.535831    6.346029
377.942043   67.136801  3505.621
 0.25000   12.489093  201.331685    6.346029
377.942043   66.259952  3619.350
 0.50000   12.489093  223.920157    6.346029
377.942043   66.723056  3718.422
 0.75000   12.489093  247.849642    6.346029
377.942043   68.440745  3807.839
 1.00000   12.489093  272.699954    6.346029
377.942043   71.164881  3885.090

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.470399 -380.276911   -7.853304
-327.027467  -52.144462  -1230.429
 0.25000  -11.470399 -355.250071   -7.853304
-327.027467  -49.541678  -1156.014
 0.50000  -11.470399 -330.887156   -7.853304
-327.027467  -47.933708  -1081.599
 0.75000  -11.470399 -307.652834   -7.853304
-327.027467  -47.430473  -1007.185
 1.00000  -11.470399 -286.041025   -7.853304
-327.027467  -47.970624 -932.790408

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    9.172506   29.795849    6.021468
57.315769   16.401129  612.227965
 0.25000    9.172506   29.802297    6.021468
57.330891   13.765624  647.670967
 0.50000    9.172506   29.809380    6.021468
57.347632   11.281635  683.219633
 0.75000    9.172506   29.816929    6.021468
57.365571    9.027814  719.032286
 1.00000    9.172506   29.824777    6.021468
57.384269    7.165418  754.908030

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.552960  -43.807897   -1.681338
-158.320078  -50.719448 -607.942304
 0.25000   -8.552960  -43.799486   -1.681338
-158.302610  -53.077572 -625.012055
 0.50000   -8.552960  -43.791357   -1.681338
-158.285853  -55.871450 -642.103108
 0.75000   -8.552960  -43.783660   -1.681338
-158.270274  -59.188415 -659.173632
 1.00000   -8.552960  -43.776546   -1.681338
-158.256305  -63.160392 -676.257024
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1490

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   15.020177   56.871170    8.906099
 94.589705   11.005321   1273.435
 0.25000   15.020177   56.877615    8.906099
 94.604792   15.515102   1343.729
 0.50000   15.020177   56.884696    8.906099
 94.621505   12.614285   1414.434
 0.75000   15.020177   56.892242    8.906099
 94.639413   10.203407   1486.113
 1.00000   15.020177   56.900086    8.906099
 94.658076    8.294388   1559.021

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.975697  -94.257061   -3.715080
-288.950815  -87.404085  -1124.964
 0.25000  -13.975697  -94.248653   -3.715080
-288.933382  -89.459007  -1151.895
 0.50000  -13.975697  -94.240527   -3.715080
-288.916658  -92.450073  -1178.835
 0.75000  -13.975697  -94.232833   -3.715080
-288.901110  -96.773394  -1205.782
 1.00000  -13.975697  -94.225721   -3.715080
-288.887169 -102.209177  -1232.715

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   16.182761   90.913324    8.476171
158.285991   21.353931   2139.187
 0.25000   16.182761   91.098918    8.476171
158.720295   17.999002   2243.644
 0.50000   16.182761   91.302808    8.476171
159.201423   15.211936   2352.630
 0.75000   16.182761   91.520111    8.476171
159.716969   12.938302   2466.180
 1.00000   16.182761   91.746008    8.476171
160.254222   11.274540   2583.482

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.704351 -166.759481   -4.093892
-380.814886  -82.946781  -1602.796
 0.25000  -14.704351 -166.517379   -4.093892
-380.313073  -84.215629  -1633.011
 0.50000  -14.704351 -166.283365   -4.093892
-379.831633  -86.467973  -1663.115
 0.75000  -14.704351 -166.061790   -4.093892
-379.384073  -90.027764  -1693.280
 1.00000  -14.704351 -165.856988   -4.093892
-378.982794  -94.829297  -1723.396

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   16.538286  149.222000    8.376767
248.755817   47.643222   2855.511
 0.25000   16.538286  158.567484    8.376767
267.744005   45.970293   3001.051
 0.50000   16.538286  168.827683    8.376767
288.926139   45.008171   3136.730
 0.75000   16.538286  179.747470    8.376767
311.673498   44.500220   3264.651
 1.00000   16.538286  191.075058    8.376767
335.273444   44.605914   3381.653

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.719687 -292.613348   -6.089734
-458.361957  -77.071806  -1808.083
 0.25000  -14.719687 -280.428539   -6.089734
-436.934570  -77.647764  -1834.901
 0.50000  -14.719687 -268.624745   -6.089734
-416.323399  -79.147210  -1861.851
 0.75000  -14.719687 -257.427039   -6.089734
-397.230196  -81.745206  -1888.672
 1.00000  -14.719687 -247.073080   -6.089734
-380.290683  -85.383419  -1915.437
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1491

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    5.654252   34.103886    2.517911
 49.547731   3.146835  868.016209
 0.25000    5.654252   34.168335    2.517911
 49.698598   2.297279  911.701731
 0.50000    5.654252   34.239137    2.517911
 49.865728   1.806395  955.731144
 0.75000    5.654252   34.314598    2.517911
 50.044812   1.625011  1000.586
 1.00000    5.654252   34.393043    2.517911
 50.231439   1.620158  1047.363

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -5.169950  -68.214151   -2.152542
-148.100693  -33.664644  -616.791719
 0.25000   -5.169950  -68.130079   -2.152542
-147.926366  -32.741249  -626.408628
 0.50000   -5.169950  -68.048817   -2.152542
-147.759118  -32.221714  -636.010360
 0.75000   -5.169950  -67.971874   -2.152542
-147.603638  -32.778374  -645.659726
 1.00000   -5.169950  -67.900197   -2.152542
-147.464233  -33.858489  -655.272744

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.799073   92.257967    2.978433
166.839973   16.691933   2050.227
 0.25000    7.799073   92.264414    2.978433
166.855088   16.159239   2128.166
 0.50000    7.799073   92.271496    2.978433
166.871823   16.037387   2217.436
 0.75000    7.799073   92.279045    2.978433
166.889754   16.250710   2321.408
 1.00000    7.799073   92.286892    2.978433
166.908444   16.713641   2435.747

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.614218 -173.349058   -3.249114
-281.216146  -34.600035  -1253.666
 0.25000   -6.614218 -173.340648   -3.249114
-281.198687  -33.291150  -1268.176
 0.50000   -6.614218 -173.332510   -3.249114
-281.181938  -32.482969  -1282.631
 0.75000   -6.614218 -173.324823   -3.249114
-281.166367  -32.571364  -1297.041
 1.00000   -6.614218 -173.317709   -3.249114
-281.152404  -33.321113  -1311.452

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.031468  107.094035    6.837648
192.274052   22.811703   2372.305
 0.25000   14.031468  107.099837    6.837648
192.287656   20.795216   2472.775
 0.50000   14.031468  107.106211    6.837648
192.302717   19.333073   2583.394
 0.75000   14.031468  107.113004    6.837648
192.318855   18.282427   2707.480
 1.00000   14.031468  107.120067    6.837648
192.335675   17.700603   2841.077

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.485063 -194.024467   -4.472882
-379.878728  -71.160027  -1648.457
 0.25000  -12.485063 -194.016898   -4.472882
-379.863016  -71.297958  -1666.274
 0.50000  -12.485063 -194.009582   -4.472882
-379.847941  -72.307468  -1684.031
 0.75000  -12.485063 -194.002655   -4.472882
-379.833927  -74.487732  -1697.085
 1.00000  -12.485063 -193.996253   -4.472882
-379.821361  -77.738243  -1722.805
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1492

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   16.280655  174.797373    7.357328
275.621492   57.627635   3190.069
 0.25000   16.280655  188.849762    7.357328
285.295316   57.385395   3358.385
 0.50000   16.280655  204.269184    7.357328
310.058188   58.050802   3506.945
 0.75000   16.280655  220.640287    7.357328
336.711924   59.263526   3636.887
 1.00000   16.280655  237.583886    7.357328
364.044415   60.995003   3746.343

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.401789 -353.130059   -7.465068
-410.298158  -69.474763  -1866.634
 0.25000  -14.401789 -334.818707   -7.465068
-387.071837  -68.736187  -1882.649
 0.50000  -14.401789 -317.018681   -7.465068
-364.559330  -68.983426  -1898.863
 0.75000  -14.401789 -300.090365   -7.465068
-343.879629  -70.204138  -1911.049
 1.00000  -14.401789 -284.408698   -7.465068
-342.510885  -72.310475  -1933.700

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    8.112238  135.457257    2.884418
309.894781   66.613123   1936.238
 0.25000    8.112238  153.076358    2.884418
305.778186   68.692904   2051.621
 0.50000    8.112238  172.377621    2.884418
301.386883   71.852902   2133.750
 0.75000    8.112238  192.792198    2.884418
296.995581   75.678912   2181.170
 1.00000    8.112238  213.780672    2.884418
292.604279   80.071852   2194.561

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.170861 -280.803613   -6.627869
-105.966157  -18.474838  -758.676044
 0.25000   -7.170861 -257.875195   -6.627869
-106.240864  -16.763587  -759.962351
 0.50000   -7.170861 -235.441387   -6.627869
-106.240864  -15.577581  -761.583042
 0.75000   -7.170861 -213.984638   -6.627869
-106.240864  -14.416754  -763.146578
 1.00000   -7.170861 -194.044693   -6.627869
-106.240864  -13.242729  -764.566310

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.387622  204.369461    4.027656
423.155260   91.441053   3084.487
 0.25000   10.387622  224.800758    4.027656
422.669457   94.415423   3235.462
 0.50000   10.387622  247.182622    4.027656
422.183634   98.565378   3358.522
 0.75000   10.387622  270.875871    4.027656
421.697811  103.440648   3458.059
 1.00000   10.387622  295.280832    4.027656
421.211988  108.891320   3527.007

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -8.756611 -405.338866   -8.657174
-210.377967  -26.097995  -1335.003
 0.25000   -8.756611 -378.743548   -8.657174
-210.377967  -24.086139  -1339.903
 0.50000   -8.756611 -352.774293   -8.657174
-210.377967  -22.649766  -1339.359
 0.75000   -8.756611 -327.961771   -8.657174
-210.377967  -21.240281  -1341.556
 1.00000   -8.756611 -304.915156   -8.657174
-210.377967  -19.834578  -1342.637
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1493

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.181841  213.501388    4.696123
421.399323   81.335720   3607.041
 0.25000   13.181841  232.233621    4.696123
421.483909   83.347104   3785.576
 0.50000   13.181841  252.754203    4.696123
421.568498   86.518211   3938.837
 0.75000   13.181841  274.479896    4.696123
421.653087   90.380385   4068.765
 1.00000   13.181841  296.862559    4.696123
421.737676   94.960318   4172.112

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.279694 -431.053112   -8.881087
-303.163554  -38.037631  -1741.186
 0.25000  -11.279694 -406.669821   -8.881087
-303.163554  -35.333084  -1752.704
 0.50000  -11.279694 -382.865136   -8.881087
-303.163554  -33.373407  -1764.622
 0.75000  -11.279694 -360.124282   -8.881087
-303.163554  -31.950400  -1776.358
 1.00000  -11.279694 -339.004495   -8.881087
-303.163554  -31.032951  -1787.938

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   16.485560  198.781650    6.915541
382.524020   71.585164   3491.901
 0.25000   16.485560  214.397791    6.915541
382.612153   72.785087   3667.950
 0.50000   16.485560  231.504790    6.915541
382.700290   74.220163   3822.986
 0.75000   16.485560  249.616523    6.915541
382.788427   76.936591   3958.729
 1.00000   16.485560  268.276087    6.915541
382.876563   80.353909   4072.721

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.521937 -395.001163   -8.975319
-360.440865  -65.172000  -1897.765
 0.25000  -14.521937 -374.674956   -8.975319
-360.440865  -63.312953  -1905.069
 0.50000  -14.521937 -354.829397   -8.975319
-360.440865  -62.525611  -1919.503
 0.75000  -14.521937 -335.871741   -8.975319
-360.440865  -62.657659  -1933.803
 1.00000  -14.521937 -318.265505   -8.975319
-360.440865  -63.560466  -1948.455

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.489093  206.387548    7.619259
424.845629   85.129381   3730.893
 0.25000   12.489093  233.577072    7.619259
424.845629   85.868466   3848.262
 0.50000   12.489093  263.119157    7.619259
424.845629   87.977206   3947.137
 0.75000   12.489093  294.418947    7.619259
424.845629   91.439349   4033.633
 1.00000   12.489093  326.865762    7.619259
424.845629   96.427963   4104.554

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.470399 -431.012604   -7.853304
-435.754598  -75.914600  -1230.429
 0.25000  -11.470399 -400.996840   -7.853304
-404.283443  -76.854991  -1156.014
 0.50000  -11.470399 -371.775331   -7.853304
-376.875367  -79.273297  -1081.599
 0.75000  -11.470399 -343.907580   -7.853304
-356.354619  -83.189938  -1007.185
 1.00000  -11.470399 -317.986159   -7.853304
-355.588648  -88.398465  -932.790408
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1494

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   16.538286  213.501388    8.906099
423.155260   91.441053   3607.041
 0.25000   16.538286  232.233621    8.906099
422.669457   94.415423   3785.576
 0.50000   16.538286  252.754203    8.906099
422.183634   98.565378   3938.837
 0.75000   16.538286  274.479896    8.906099
421.697811  103.440648   4068.765
 1.00000   16.538286  296.862559    8.906099
421.737676  108.891320   4172.112

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.719687 -431.053112   -8.975319
-458.361957  -87.404085  -1897.765
 0.25000  -14.719687 -406.669821   -8.975319
-436.934570  -89.459007  -1905.069
 0.50000  -14.719687 -382.865136   -8.975319
-416.323399  -92.450073  -1919.503
 0.75000  -14.719687 -360.124282   -8.975319
-397.230196  -96.773394  -1933.803
 1.00000  -14.719687 -339.004495   -8.975319
-380.290683 -102.209177  -1948.455

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   16.538286  213.501388    8.906099
424.845629   91.441053   3730.893
 0.25000   16.538286  233.577072    8.906099
424.845629   94.415423   3848.262
 0.50000   16.538286  263.119157    8.906099
424.845629   98.565378   3947.137
 0.75000   16.538286  294.418947    8.906099
424.845629  103.440648   4068.765
 1.00000   16.538286  326.865762    8.906099
424.845629  108.891320   4172.112

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -14.719687 -431.053112   -8.975319
-458.361957  -87.404085  -1897.765
 0.25000  -14.719687 -406.669821   -8.975319
-436.934570  -89.459007  -1905.069
 0.50000  -14.719687 -382.865136   -8.975319
-416.323399  -92.450073  -1919.503
 0.75000  -14.719687 -360.124282   -8.975319
-397.230196  -96.773394  -1933.803
 1.00000  -14.719687 -339.004495   -8.975319
-380.290683 -102.209177  -1948.455
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1495

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM      121 ================= LENGTH =     4.927624

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000    7.082628   19.088507    3.176679
 42.423182   5.858496  572.372510
 0.25000    7.082628   19.101103    3.176679
 42.452732   4.537490  572.284893
 0.50000    7.082628   19.114694    3.176679
 42.484843   3.859496  573.013197
 0.75000    7.082628   19.128950    3.176679
 42.518671   5.538554  574.388127
 1.00000    7.082628   19.145039    3.176679
 42.559031   7.253014  576.526661

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -6.686606  -16.710472   -2.712853
-42.311158  -54.811149  -310.828859
 0.25000   -6.686606  -16.694380   -2.712853
-42.270989  -54.150060  -290.706873
 0.50000   -6.686606  -16.680120   -2.712853
-42.236949  -54.129704  -297.384753
 0.75000   -6.686606  -16.666503   -2.712853
-42.204824  -54.839675  -320.597299
 1.00000   -6.686606  -16.653818   -2.712853
-42.175239  -56.189491  -343.809850

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.674064   38.447629    5.760943
107.133132   6.895368   1227.103
 0.25000   11.674064   38.460320    5.760943
107.162613   5.521702   1224.805
 0.50000   11.674064   38.473606    5.760943
107.194676   4.978093   1224.614
 0.75000   11.674064   38.488158    5.760943
107.228655   6.832441   1228.397
 1.00000   11.674064   38.504239    5.760943
107.268753   8.729882   1234.503

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.964372  -36.200123   -5.065597
-106.367874  -86.956527 -572.995863
 0.25000  -10.964372  -36.184039   -5.065597
-106.327766  -85.285605  -534.36812
 0.50000  -10.964372  -36.169784   -5.065597
-106.293774  -84.998070 -544.294184
 0.75000  -10.964372  -36.156191   -5.065597
-106.261697  -86.314558 -588.424325
 1.00000  -10.964372  -36.143491   -5.065597
-106.232182  -89.009929 -632.558658

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.547534   75.272086    5.811604
207.332503   8.794589   2131.132
 0.25000   12.547534   75.283509    5.811604
207.359051   6.652664   2114.264
 0.50000   12.547534   75.295738    5.811604
207.387919   5.559250   2109.364
 0.75000   12.547534   75.308565    5.811604
207.418511   7.807383   2119.024
 1.00000   12.547534   75.323040    5.811604
207.454613  10.298710   2141.005

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.694676  -74.110483   -5.152851
-205.894794  -78.424022 -799.884453
 0.25000  -11.694676  -74.096005   -5.152851
-205.858683  -76.466272 -743.282602
 0.50000  -11.694676  -74.083175   -5.152851
-205.828079  -76.083816 -752.104011
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    1496

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000  -11.694676  -74.070940   -5.152851
-205.799200  -77.436388 -815.987007
 1.00000  -11.694676  -74.059509   -5.152851
-205.772620  -80.356140 -879.872857

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.086565  154.880991    6.504082
```

```
247.761003    38.283856    3075.714
 0.25000    13.086565   166.761497     6.504082
270.280816    35.997324    3076.725
 0.50000    13.086565   179.513692     6.504082
296.107563    34.930264    3074.958
 0.75000    13.086565   192.908988     6.504082
323.433261    37.163132    3081.679
 1.00000    13.086565   207.718815     6.504082
355.995703    39.943446    3086.136

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -12.004668  -207.450335    -6.106307
-355.125882   -69.182403  -907.087986
 0.25000   -12.004668  -192.637877    -6.106307
-322.511909   -67.060802  -840.272036
 0.50000   -12.004668  -179.239188    -6.106307
-295.175702   -66.516128  -845.331218
 0.75000   -12.004668  -166.480758    -6.106307
-269.338375   -68.293437  -920.055114
 1.00000   -12.004668  -154.591469    -6.106307
-246.669303   -71.375971  -994.781379

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.454387   29.222225     2.530066
 94.291407    1.421156   900.125310
 0.25000    4.454387   29.361839     2.530066
 94.615882    1.404043   894.112268
 0.50000    4.454387   29.511304     2.530066
 94.968711    1.508977   891.472588
 0.75000    4.454387   29.668082     2.530066
 95.342614    1.560783   895.935198
 1.00000    4.454387   29.844998     2.530066
 95.783863    1.614782   903.941721

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.128318  -30.892326    -2.337645
-94.909573  -27.006608  -313.172609
 0.25000   -4.128318  -30.715377    -2.337645
-94.468218  -25.955357  -290.327558
 0.50000   -4.128318  -30.558562    -2.337645
-94.094173  -25.611671  -292.752383
 0.75000   -4.128318  -30.409027    -2.337645
-93.741198  -26.228801  -318.358711
 1.00000   -4.128318  -30.269316    -2.337645
-93.416340  -27.556834  -343.968548

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.120486   93.770094     3.127210
237.595803   13.875410    2207.345
 0.25000    6.120486   93.782787     3.127210
237.625300   12.761540    2169.460
 0.50000    6.120486   93.796374     3.127210
237.657376   12.170047    2154.305
 0.75000    6.120486   93.810627     3.127210
237.691367   12.800666    2172.896
 1.00000    6.120486   93.826710     3.127210
237.731481   13.864878    2214.488

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.425922  -95.862108    -2.975396
-236.293458  -24.342651  -624.641543
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1497

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   -5.425922  -95.846022    -2.975396
-236.253334  -22.842062  -577.267552
 0.50000   -5.425922  -95.831766    -2.975396
-236.219330  -22.399502  -578.330878
 0.75000   -5.425922  -95.819172    -2.975396
-236.187242  -23.284037  -630.932448
 1.00000   -5.425922  -95.805471    -2.975396
-236.157709  -25.099047  -683.537284

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.964823  100.063373     5.392392
252.402910   14.657380    2483.156
 0.25000   10.964823  100.074796     5.392392
252.429458   12.973298    2448.986
 0.50000   10.964823  100.087025     5.392392
252.458325   12.435697    2435.597
 0.75000   10.964823  100.099852     5.392392
252.488918   13.983086    2453.648
 1.00000   10.964823  100.114327     5.392392
252.525020   15.975975    2492.870

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.006816  -99.766924    -4.922127
-250.893981  -62.897050  -813.383237
 0.25000  -10.006816  -99.752446    -4.922127
-250.857870  -60.915617  -754.121075
 0.50000  -10.006816  -99.739616    -4.922127
-250.827266  -60.457982  -760.048254
 0.75000  -10.006816  -99.727381    -4.922127
-250.798386  -61.819234  -826.491985
 1.00000  -10.006816  -99.715950    -4.922127
-250.771807  -64.570858  -892.938027

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   13.115285  192.617951     6.784272
265.382071   53.771919    3500.037
 0.25000   13.115285  210.866353     6.784272
271.337349   51.566096    3517.783
 0.50000   13.115285  230.523754     6.784272
296.322199   50.811954    3521.104
 0.75000   13.115285  251.212517     6.784272
319.478460   52.694479    3522.522
 1.00000   13.115285  273.445703     6.784272
340.663035   55.440369    3510.166

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -11.996610  -273.892499    -6.613451
-340.274400  -56.499344  -920.980643
 0.25000  -11.996610  -251.655809    -6.613451
-319.064754  -54.221577  -851.458645
 0.50000  -11.996610  -230.961248    -6.613451
-295.919807  -53.479757  -853.762882
 0.75000  -11.996610  -211.293613    -6.613451
-270.948639  -55.452130  -931.120257
 1.00000  -11.996610  -193.030863    -6.613451
-264.835248  -58.587392  -1008.480

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.994728  172.372744     4.043262
192.067125   72.439282    2274.688
 0.25000    6.994728  195.731396     4.043262
192.067125   70.959171    2326.143
 0.50000    6.994728  221.085126     4.043262
192.067125   70.575387    2341.554
 0.75000    6.994728  247.868039     4.043262
192.067125   71.460083    2327.454
 1.00000    6.994728  275.042285     4.043262
192.067125   73.441361    2277.805
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1498

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.472772  -276.145767    -4.427395
-194.021227   -7.220750  -372.804224
 0.25000   -6.472772  -248.968095    -4.427395
-194.021227   -6.125063  -341.760994
 0.50000   -6.472772  -222.176466    -4.427395
-194.021227   -5.417517  -337.624679
 0.75000   -6.472772  -196.807957    -4.427395
-194.021227   -6.881012  -371.513332
 1.00000   -6.472772  -173.429304    -4.427395
-194.021227   -8.349358  -405.402119

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.918115   251.575993     5.270674
298.745509   95.719348    3601.419
 0.25000    8.918115   279.483585     5.270674
298.745509   93.890670    3636.537
 0.50000    8.918115   309.695035     5.270674
298.745509   93.429995    3642.546
 0.75000    8.918115   341.577175     5.270674
298.745509   94.529890    3639.201
 1.00000    8.918115   374.474984     5.270674
298.745509   96.994912    3607.364

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -7.962282  -376.455516    -5.732435
-300.485144  -11.304533  -653.721700
 0.25000   -7.962282  -343.553518    -5.732435
-300.485144   -9.755029  -600.183603
 0.50000   -7.962282  -311.661241    -5.732435
-300.485144   -8.854923  -594.109340
 0.75000   -7.962282  -281.432737    -5.732435
-300.485144  -10.870672  -652.681499
 1.00000   -7.962282  -253.501327    -5.732435
-300.485144  -12.904468  -711.254291

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.024555   255.688061     6.010675
356.811489   84.421548    4104.244
 0.25000   11.024555   281.285945     6.010675
356.811489   81.887715    4129.700
 0.50000   11.024555   308.989646     6.010675
356.811489   81.055072    4134.030
 0.75000   11.024555   338.222366     6.010675
356.811489   82.408440    4133.669
 1.00000   11.024555   368.437326     6.010675
356.811489   85.384090    4112.836

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.967590  -371.133847    -6.334321
-357.565067  -16.720242  -862.538179
 0.25000   -9.967590  -340.915036    -6.334321
-357.565067  -16.653165  -793.878469
 0.50000   -9.967590  -311.673044    -6.334321
-357.565067  -15.665799  -789.565320
 0.75000   -9.967590  -283.953755    -6.334321
-357.565067  -17.718531  -865.091056
 1.00000   -9.967590  -258.334042    -6.334321
-357.565067  -20.337331  -940.617007

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   13.488610   226.422514     7.211873
337.854343   71.241037    3884.938
 0.25000   13.488610   247.764599     7.211873
337.854343   68.946368    3906.126
 0.50000   13.488610   270.862153     7.211873
337.854343   68.214814    3910.001
 0.75000   13.488610   295.234404     7.211873
337.854343   69.879707    3907.710
 1.00000   13.488610   320.427276     7.211873
337.854343   72.821422    3894.824
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1499

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -12.330571  -321.692601    -7.238406
-338.055705  -47.045008  -932.838176
 0.25000  -12.330571  -296.496519    -7.238406
-338.055705  -44.605258  -861.040967
 0.50000  -12.330571  -272.116539    -7.238406
-338.055705  -43.639816  -861.045002
 0.75000  -12.330571  -249.005990    -7.238406
-338.055705  -45.853703  -940.619533
 1.00000  -12.330571  -227.645704    -7.238406
-338.055705  -49.108106   -1020.196

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    9.892897   31.781871     3.778315
67.989127    6.905922   755.110545
 0.25000    9.892897   31.788676     3.778315
68.003654    6.149558   764.278972
 0.50000    9.892897   31.796083     3.778315
68.019782    6.152792   773.606360
 0.75000    9.892897   31.803939     3.778315
68.037087    7.372200   782.913536
 1.00000    9.892897   31.812084     3.778315
68.055108    8.906513   792.491400

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.221702  -31.909673    -3.584535
-68.770814  -62.482140  -676.258570
 0.25000   -9.221702  -31.901503    -3.584535
-68.752771  -61.914820  -684.894181
 0.50000   -9.221702  -31.893629    -3.584535
-68.735443  -62.164105  -693.535379
 0.75000   -9.221702  -31.886217    -3.584535
-68.719322  -63.092560  -702.162148
 1.00000   -9.221702  -31.879410    -3.584535
-68.704800  -64.602311  -710.793615

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   16.204317   65.170858     6.322484
140.064626    8.135249    1559.377
 0.25000   16.204317   65.177662     6.322484
140.079126    7.319852    1575.671
 0.50000   16.204317   65.185066     6.322484
140.095224    7.410030    1592.330
 0.75000   16.204317   65.192919     6.322484
140.112498    8.800161    1609.244
 1.00000   16.204317   65.201060     6.322484
140.130485   10.566968    1626.686

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.066915  -66.141313    -6.113664
-140.490312  -101.355800   -1232.697
 0.25000  -15.066915  -66.133146    -6.113664
-140.472303  -100.040669   -1248.320
 0.50000  -15.066915  -66.125275    -6.113664
-140.455006   -99.996074   -1263.939
 0.75000  -15.066915  -66.117866    -6.113664
-140.438914  -101.338054   -1279.552
 1.00000  -15.066915  -66.111062    -6.113664
-140.424419  -103.668976   -1295.158

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   17.462572  117.311152     6.337266
225.077279   11.727936    2583.848
 0.25000   17.462572  117.507065     6.337266
225.494672   10.486944    2600.938
 0.50000   17.462572  117.720283     6.337266
225.958084   10.329005    2621.816
 0.75000   17.462572  117.946426     6.337266
226.455333   11.948206    2647.192
 1.00000   17.462572  118.180876     6.337266
226.973138   14.143939    2679.420
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1500

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.855446  -120.139984    -6.168586
-226.215121   -94.283272   -1723.364
 0.25000  -15.855446  -119.904785    -6.168586
-225.696695   -92.747339   -1744.825
 0.50000  -15.855446  -119.678150    -6.168586
-225.198778   -92.652515   -1766.313
 0.75000  -15.855446  -119.464773    -6.168586
-224.735549   -93.992295   -1787.806
 1.00000  -15.855446  -119.268833    -6.168586
-224.318257   -96.525250   -1809.254

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   17.782553  186.823926     7.217475
273.808246   44.633147    3381.884
 0.25000   17.782553  196.720565     7.217475
291.749501   43.730631    3422.086
 0.50000   17.782553  207.473182     7.217475
311.851696   43.862416    3451.537
 0.75000   17.782553  218.863043     7.217475
333.479615   45.505258    3472.833
 1.00000   17.782553  230.645153     7.217475
355.937593   47.759310    3483.389

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.815810  -233.219772    -7.142118
-354.868358   -84.535528   -1915.417
 0.25000  -15.815810  -221.397459    -7.142118
-332.382510   -83.293189   -1939.059
 0.50000  -15.815810  -209.982042    -7.142118
-310.727545   -83.353601   -1962.614
 0.75000  -15.815810  -199.217945    -7.142118
-290.617457   -84.937098   -1986.132
 1.00000  -15.815810  -189.324610    -7.142118
-272.669119   -87.524979   -2009.643

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.104849   46.097159     2.475531
93.154139    1.861835    1047.519
 0.25000    6.104849   46.165161     2.475531
93.299137    1.780655    1055.164
 0.50000    6.104849   46.239202     2.475531
93.460117    1.845773    1063.897
 0.75000    6.104849   46.317732     2.475531
93.632852    1.911667    1069.525
 1.00000    6.104849   46.399146     2.475531
93.812728    2.081178    1082.345

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.572388  -47.657004    -2.477663
-93.127490   -33.822756  -655.246059
 0.25000   -5.572388  -47.575329    -2.477663
-92.947398   -32.869461  -663.359352
 0.50000   -5.572388  -47.496629    -2.477663
-92.774432   -32.408336  -671.464919
 0.75000   -5.572388  -47.422532    -2.477663
-92.613515   -32.892477  -679.557995
 1.00000   -5.572388  -47.354492    -2.477663
-92.468565   -33.815068  -687.679317

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.375331   126.076334     3.233774
224.097464   17.449556    2435.892
 0.25000    8.375331   126.083140     3.233774
224.111985   16.917736    2435.399
 0.50000    8.375331   126.090546     3.233774
224.128105   16.736744    2445.110
 0.75000    8.375331   126.098401     3.233774
224.145402   17.268860    2469.781
 1.00000    8.375331   126.106545     3.233774
224.163414   18.117675    2504.592
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1501

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -7.088255  -128.567266    -3.270665
-222.111378   -33.389484   -1311.418
 0.25000   -7.088255  -128.559096    -3.270665
-222.093344   -32.346557   -1327.405
 0.50000   -7.088255  -128.551224    -3.270665
-222.076023   -32.013692   -1343.363
 0.75000   -7.088255  -128.543812    -3.270665
-222.059910   -32.612272   -1359.346
 1.00000   -7.088255  -128.537006    -3.270665
-222.045394   -33.882176   -1375.279

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   15.102515  140.072888     5.728193
258.625489   18.300367    2841.368
 0.25000   15.102515  140.079013     5.728193
258.638557   17.322708    2848.242
 0.50000   15.102515  140.085678     5.728193
258.653065   17.305543    2864.405
 0.75000   15.102515  140.092748     5.728193
258.668633   18.637815    2894.058
 1.00000   15.102515  140.100077     5.728193
258.684844   20.485395    2933.052

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -13.423642  -142.268787    -5.658409
-257.093452   -77.420980   -1722.770
 0.25000  -13.423642  -142.261434    -5.658409
-257.077222   -75.923190   -1744.069
 0.50000  -13.423642  -142.254349    -5.658409
-257.061634   -75.728188   -1765.373
 0.75000  -13.423642  -142.247679    -5.658409
-257.047131   -76.950480   -1786.674
 1.00000  -13.423642  -142.241553    -5.658409
-257.034067   -79.233140   -1807.937

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   17.497469  218.564912     7.394173
274.941281   60.895843    3746.443
 0.25000   17.497469  233.518552     7.394173
283.249199   60.171215    3802.078
 0.50000   17.497469  249.734264     7.394173
305.925250   60.406203    3836.900
 0.75000   17.497469  266.871619     7.394173
330.489476   61.974802    3852.919
 1.00000   17.497469  284.534579     7.394173
355.773829   64.131762    3848.032

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -15.467939  -287.344125    -7.429038
-354.953603   -71.441841   -1933.685
 0.25000  -15.467939  -269.612077    -7.429038
-329.596153   -70.264329   -1957.404
 0.50000  -15.467939  -252.434148    -7.429038
-305.001625   -70.257851   -1981.017
 0.75000  -15.467939  -236.200500    -7.429038
-282.278735   -71.862109   -2004.643
 1.00000  -15.467939  -221.258263    -7.429038
-273.886684   -74.354410   -2028.165

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.705854   161.145529     4.619030
198.728180   78.946482    2194.253
 0.25000    8.705854   180.045761     4.619030
198.349331   78.619773    2255.576
 0.50000    8.705854   200.509451     4.619030
196.815667   78.858316    2282.693
 0.75000    8.705854   222.016559     4.619030
194.038495   79.767220    2274.900
 1.00000    8.705854   244.055093     4.619030
190.096012   81.297735    2232.958
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1502

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -7.705626  -245.537115    -4.776788
-191.670147   -12.174934   -764.581527
 0.25000   -7.705626  -223.418515    -4.776788
-195.681360   -12.249054   -773.386361
 0.50000   -7.705626  -201.846920    -4.776788
-198.537952   -12.458281   -782.636245
 0.75000   -7.705626  -181.368009    -4.776788
-200.150646   -13.473064   -791.700606
 1.00000   -7.705626  -162.469655    -4.776788
-200.598225   -14.486978   -800.791349

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.085659  248.652273     6.157149
309.728389  107.663543    3526.663
 0.25000   11.085659  270.524591     6.157149
309.728389  107.481895    3585.222
 0.50000   11.085659  294.212643     6.157149
309.716774  107.907547    3614.430
 0.75000   11.085659  319.136597     6.157149
309.730340  109.125748    3619.248
 1.00000   11.085659  344.715414     6.157149
308.768654  110.933856    3594.894

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.345029  -347.276411    -6.358297
-309.328068   -18.566360   -1342.652
 0.25000   -9.345029  -321.604614    -6.358297
-309.813754   -18.646623   -1358.483
 0.50000   -9.345029  -296.609073    -6.358297
-310.287824   -18.965910   -1374.625
 0.75000   -9.345029  -272.902393    -6.358297
-310.311077   -20.379955   -1390.576
 1.00000   -9.345029  -251.033237    -6.358297
-310.311077   -21.808612   -1407.481

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   14.135204  268.531788     6.736600
355.654439   94.482100    4171.895
 0.25000   14.135204  288.580077     6.736600
355.654439   93.752055    4233.659
 0.50000   14.135204  310.293418     6.736600
355.654445   93.947064    4268.265
 0.75000   14.135204  333.142815     6.736600
355.737046   95.242585    4279.581
 1.00000   14.135204  356.597166     6.736600
355.821611   97.442392    4263.892

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -12.093248  -360.004522    -6.930805
-355.592457   -30.077219   -1787.930
 0.25000  -12.093248  -336.465151    -6.930805
-355.507891   -29.400176   -1805.229
 0.50000  -12.093248  -313.550244    -6.930805
-355.423332   -29.391640   -1830.871
 0.75000  -12.093248  -291.819903    -6.930805
-355.421368   -30.920134   -1852.348
 1.00000  -12.093248  -271.774435    -6.930805
-355.421368   -32.916721   -1873.661

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   17.715707  247.708714     7.918290
348.487512   80.006745    4072.671
 0.25000   17.715707  264.421815     7.918290
348.487512   79.212140    4130.294
 0.50000   17.715707  282.522998     7.918290
348.487571   79.440118    4165.372
 0.75000   17.715707  301.571353     7.918290
348.573587   80.970500    4181.026
 1.00000   17.715707  321.172677     7.918290
348.661698   83.314680    4174.337
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
 <              MOVING          LOAD              >
                                1503
```

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.601793	-324.214195	-8.035164
-348.442811		-62.571376	-1948.437	
0.25000		-15.601793	-304.590500	-8.035164
-348.354699		-61.486983	-1872.019	
0.50000		-15.601793	-285.487536	-8.035164
-348.266646		-61.404519	-1995.874	
0.75000		-15.601793	-267.372183	-8.035164
-348.264550		-63.095136	-2019.576	
1.00000		-15.601793	-250.661432	-8.035164
-348.264550		-65.524777	-2052.106	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		13.488610	255.688061	7.211873
356.811489		95.719348	4104.244	
0.25000		13.488610	281.285945	7.211873
356.811489		93.890670	4129.700	
0.50000		13.488610	309.695035	7.211873
356.811489		93.429995	4134.030	
0.75000		13.488610	341.577175	7.211873
356.811489		94.529890	4133.669	
1.00000		13.488610	374.474984	7.211873
356.811489		96.994912	4112.836	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-12.330571	-376.455516	-7.238406
-357.565067		-86.956527	-932.838176	
0.25000		-12.330571	-343.553518	-7.238406
-357.565067		-85.285605	-861.040967	
0.50000		-12.330571	-311.673044	-7.238406
-357.565067		-84.998070	-861.045002	
0.75000		-12.330571	-283.953755	-7.238406
-357.565067		-86.314558	-940.619533	
1.00000		-12.330571	-258.334042	-7.238406
-357.565067		-89.009929	-1020.196	

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		17.782553	268.531788	7.918290
355.654439		107.663543	4171.895	
0.25000		17.782553	288.580077	7.918290
355.654439		107.481895	4233.659	
0.50000		17.782553	310.293418	7.918290
355.654445		107.907547	4268.265	
0.75000		17.782553	333.142815	7.918290
355.737046		109.108510	4279.581	
1.00000		17.782553	356.597166	7.918290
355.937593		110.933856	4263.892	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.855446	-360.004522	-8.035164
-355.592457		-101.355800	-1948.437	
0.25000		-15.855446	-336.465151	-8.035164
-355.507891		-100.040669	-1972.019	
0.50000		-15.855446	-313.550244	-8.035164
-355.423332		-99.996074	-1995.874	
0.75000		-15.855446	-291.819903	-8.035164
-355.421368		-101.338054	-2019.576	
1.00000		-15.855446	-271.774435	-8.035164
-355.421368		-103.668976	-2052.106	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		17.782553	268.531788	7.918290
356.811489		107.663543	4171.895	
0.25000		17.782553	288.580077	7.918290
356.811489		107.481895	4233.659	
0.50000		17.782553	310.293418	7.918290
356.811489		107.907547	4268.265	
0.75000		17.782553	341.577175	7.918290
356.811489		109.108510	4279.581	
1.00000		17.782553	374.474984	7.918290
356.811489		110.933856	4263.892	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1504
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.855446	-376.455516	-8.035164
-357.565067		-101.355800	-1948.437	
0.25000		-15.855446	-343.553518	-8.035164
-357.565067		-100.040669	-1972.019	
0.50000		-15.855446	-313.550244	-8.035164
-357.565067		-99.996074	-1995.874	
0.75000		-15.855446	-291.819903	-8.035164
-357.565067		-101.338054	-2019.576	
1.00000		-15.855446	-271.774435	-8.035164
-357.565067		-103.668976	-2052.106	

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		17.782553	268.531788	7.918290
356.811489		107.663543	4171.895	
0.25000		17.782553	288.580077	7.918290
356.811489		107.481895	4233.659	
0.50000		17.782553	310.293418	7.918290
356.811489		107.907547	4268.265	
0.75000		17.782553	341.577175	7.918290
356.811489		109.108510	4279.581	
1.00000		17.782553	374.474984	7.918290
356.811489		110.933856	4263.892	

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.855446	-376.455516	-8.035164
-357.565067		-101.355800	-1948.437	
0.25000		-15.855446	-343.553518	-8.035164
-357.565067		-100.040669	-1972.019	
0.50000		-15.855446	-313.550244	-8.035164
-357.565067		-99.996074	-1995.874	
0.75000		-15.855446	-291.819903	-8.035164
-357.565067		-101.338054	-2019.576	
1.00000		-15.855446	-271.774435	-8.035164
-357.565067		-103.668976	-2052.106	

ELEM 122 ========== LENGTH = 4.928294

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.478755	22.191011	1.519850
124.409162		6.316472	576.217857	
0.25000		7.478755	22.203849	1.519850
124.438383		8.603423	555.848422	
0.50000		7.478755	22.217518	1.519850
124.469852		10.945007	536.043036	
0.75000		7.478755	22.231781	1.519850
124.502818		13.324417	516.890188	
1.00000		7.478755	22.247816	1.519850
124.542829		15.728702	498.454462	

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.167163	-18.258925	-4.216052
-45.251624		-55.431245	-343.856718	
0.25000		-7.167163	-18.242960	-4.216052
-45.211342		-52.515715	-362.268774	
0.50000		-7.167163	-18.228875	-4.216052
-45.177228		-50.192410	-380.680830	
0.75000		-7.167163	-18.215486	-4.216052
-45.145041		-48.517769	-399.121637	
1.00000		-7.167163	-18.203007	-4.216052
-45.115350		-47.530845	-417.637020	

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		12.350955	53.900601	3.686236
241.689208		7.595423	1233.998	
0.25000		12.350955	53.913434	3.686236
241.718383		10.135067	1188.912	
0.50000		12.350955	53.927098	3.686236
241.749805		12.741877	1146.932	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1505
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000		12.350955	53.941357	3.686236
241.782725		15.387068	1107.611	
1.00000		12.350955	53.957383	3.686236
241.822641		18.557828	1071.115	

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.750795	-34.601134	-6.872253
-75.034172		-87.855016	-632.627223	
0.25000		-11.750795	-34.585177	-6.872253
-74.993953		-83.659213	-670.249486	
0.50000		-11.750795	-34.571097	-6.872253
-74.959887		-80.740128	-707.871749	
0.75000		-11.750795	-34.557713	-6.872253
-74.927749		-79.290331	-745.503856	
1.00000		-11.750795	-34.545299	-6.872253
-74.898106		-79.264849	-783.205142	

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		13.300964	106.813743	4.040266
343.591122		8.969699	2140.487	
0.25000		13.300964	106.825293	4.040266
343.617390		11.450422	2055.462	
0.50000		13.300964	106.837592	4.040266
343.645680		14.067904	1983.344	
0.75000		13.300964	106.850426	4.040266
343.675319		16.803342	1924.151	
1.00000		13.300964	106.864852	4.040266
343.711264		19.940219	1877.835	

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-12.529445	-52.786978	-6.610515
-152.573754		-79.403088	-879.916115	
0.25000		-12.529445	-52.772616	-6.610515
-152.537542		-75.525345	-938.697330	
0.50000		-12.529445	-52.759943	-6.610515
-152.506872		-73.162389	-997.478545	
0.75000		-12.529445	-52.747896	-6.610515
-152.477937		-72.391095	-1056.267	
1.00000		-12.529445	-52.736668	-6.610515
-152.451247		-73.067730	-1115.117	

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		13.904623	198.638184	5.506373
340.871193		38.327935	3085.749	
0.25000		13.904623	210.655798	5.506373
357.952577		39.161038	3003.584	
0.50000		13.904623	223.482500	5.506373
378.345450		40.374033	2921.981	
0.75000		13.904623	236.883128	5.506373
405.768948		42.241594	2844.442	
1.00000		13.904623	251.634105	5.506373
437.250270		44.786989	2765.460	

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-12.866281	-172.207431	-6.773166
-343.791246		-70.160174	-994.784347	
0.25000		-12.866281	-157.525545	-6.773166
-310.839229		-67.847515	-1067.611	
0.50000		-12.866281	-144.310460	-6.773166
-282.539953		-66.802125	-1140.438	
0.75000		-12.866281	-131.765226	-6.773166
-256.447681		-67.075050	-1213.271	
1.00000		-12.866281	-120.106929	-6.773166
-234.107792		-68.561022	-1286.155	

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		4.741001	46.885749	2.301569
142.624412		1.670458	903.766235	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1506
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL	DIST	P	V2	V3
	T	M2	M3	
0.25001		4.741001	47.026921	2.301569
142.945459		1.696099	868.794825	
0.50000		4.741001	47.177242	2.301569
143.291227		1.724541	838.323041	
0.75000		4.741001	47.334101	2.301569
143.653480		1.922110	811.679160	
1.00000		4.741001	47.510415	2.301569
144.092810		2.601188	791.545491	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-4.422786	-20.000042	-2.448910
-48.284546		-27.260330	-343.979324	
0.25000		-4.422786	-19.824497	-2.448910
-47.841964		-26.293257	-368.635527	
0.50000		-4.422786	-19.669608	-2.448910
-47.467106		-25.977383	-393.291730	
0.75000		-4.422786	-19.522365	-2.448910
-47.113451		-26.516430	-417.947933	
1.00000		-4.422786	-19.385142	-2.448910
-46.787245		-27.947897	-442.604136	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.529263	131.994613	3.151853
283.559619		13.419075	2214.297	
0.25000		6.529263	132.007447	3.151853
283.588805		13.238984	2113.460	
0.50000		6.529263	132.021113	3.151853
283.620238		13.232714	2037.163	
0.75000		6.529263	132.035372	3.151853
283.653170		13.443266	1992.088	
1.00000		6.529263	132.051401	3.151853
283.693109		14.195613	1971.102	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-5.817178	-62.592585	-2.797523
-182.497060		-24.817274	-683.513654	
0.25000		-5.817178	-62.576626	-2.797523
-182.456825		-24.161262	-736.874868	
0.50000		-5.817178	-62.562545	-2.797523
-182.422747		-24.450679	-790.236082	
0.75000		-5.817178	-62.549160	-2.797523
-182.390596		-25.690608	-843.597297	
1.00000		-5.817178	-62.536685	-2.797523
-182.360941		-27.754634	-896.958511	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		11.640068	138.720017	4.389049
357.526922		14.698443	2492.457	
0.25000		11.640068	138.731567	4.389049
357.553190		16.005682	2383.689	
0.50000		11.640068	138.743866	4.389049
357.581480		17.501780	2297.464	
0.75000		11.640068	138.756700	4.389049
357.611119		19.216741	2240.274	
1.00000		11.640068	138.771126	4.389049
357.647064		21.377556	2205.500	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.726510	-71.022617	-5.664931
-197.759732		-63.758921	-892.952264	
0.25000		-10.726510	-71.008254	-5.664931
-197.723521		-61.193919	-956.770844	
0.50000		-10.726510	-70.995581	-5.664931
-197.692851		-60.009681	-1020.589	
0.75000		-10.726510	-70.983534	-5.664931
-197.663915		-60.260296	-1084.408	
1.00000		-10.726510	-70.972307	-5.664931
-197.637226		-61.823079	-1148.236	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1507
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		13.963451	243.193676	6.636913
316.727281		53.702407	3510.016	
0.25000		13.963451	261.662050	6.636913
316.727281		52.987842	3438.990	
0.50000		13.963451	281.437314	6.636913
329.841661		52.896778	3358.086	
0.75000		13.963451	302.131280	6.636913
353.831596		53.786165	3269.347	
1.00000		13.963451	324.257864	6.636913
375.247000		55.578692	3168.155	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-12.858003	-231.420174	-6.399065
-352.411663		-57.292676	-1008.462	
0.25000		-12.858003	-209.418286	-6.399065
-331.202034		-56.371612	-1086.394	
0.50000		-12.858003	-189.036199	-6.399065
-307.988096		-56.600157	-1164.326	
0.75000		-12.858003	-169.734266	-6.399065
-282.914536		-58.035402	-1242.258	
1.00000		-12.858003	-151.866711	-6.399065
-277.185501		-60.558764	-1320.198	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		7.493687	201.032340	5.267799
90.712468		72.273022	2278.423	
0.25000		7.493687	224.695963	5.267799
90.712468		68.969465	2288.239	
0.50000		7.493687	250.209329	5.267799
90.712468		66.739975	2266.383	
0.75000		7.493687	276.991158	5.267799
90.712468		65.607673	2220.242	
1.00000		7.493687	303.988029	5.267799
90.712468		65.631991	2118.077	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-6.942784	-247.355735	-2.958182
-298.631784		-7.231829	-405.364557	
0.25000		-6.942784	-220.554371	-2.958182
-298.631784		-9.361803	-443.722539	
0.50000		-6.942784	-194.251667	-2.958182
-298.631784		-11.499039	-482.080521	
0.75000		-6.942784	-169.448531	-2.958182
-298.631784		-13.640714	-520.438503	
1.00000		-6.942784	-146.677669	-2.958182
-298.631784		-15.788284	-558.796485	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.557744	299.600053	6.795918
182.662638		95.424053	3607.982	
0.25000		9.557744	327.864157	6.795918
182.662638		91.180779	3570.184	
0.50000		9.557744	358.263179	6.795918
182.662638		88.246560	3510.486	
0.75000		9.557744	390.146896	6.795918
182.662638		86.762185	3433.134	
1.00000		9.557744	422.846943	6.795918
182.662638		86.629902	3329.990	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-8.545230	-328.621887	-3.957305
-417.830566		-11.534480	-711.179705	
0.25000		-8.545230	-296.142409	-3.957305
-417.830566		-14.386026	-776.323737	
0.50000		-8.545230	-264.803104	-3.957305
-417.830566		-17.255928	-841.467770	
0.75000		-8.545230	-235.215737	-3.957305
-417.830566		-20.147206	-906.611802	
1.00000		-8.545230	-207.975252	-3.957305
-417.830566		-23.053150	-971.755834	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1508
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		11.801352	315.065996	7.375881
283.707283		83.795622	4113.278	
0.25000		11.801352	340.990160	7.375881
283.707283		80.372207	4046.734	
0.50000		11.801352	368.865618	7.375881
283.707283		78.134090	3964.712	
0.75000		11.801352	398.100049	7.375881
283.707283		77.300181	3870.095	
1.00000		11.801352	428.134922	7.375881
283.707283		77.790849	3756.600	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.689607	-312.171144	-4.617563
-424.900677		-19.100766	-940.548153	
0.25000		-10.689607	-282.337383	-4.617563
-424.900677		-21.067839	-1021.833	
0.50000		-10.689607	-253.599719	-4.617563
-424.900677		-23.634018	-1103.118	
0.75000		-10.689607	-226.465334	-4.617563
-424.900677		-26.762424	-1184.403	
1.00000		-10.689607	-201.476099	-4.617563
-424.900677		-30.388111	-1265.688	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		14.385786	282.702922	7.750573
327.438612		71.021830	3895.000	
0.25000		14.385786	304.317017	7.750573
327.438612		68.864300	3822.739	
0.50000		14.385786	327.557763	7.750573
327.438612		67.708758	3738.484	
0.75000		14.385786	351.931449	7.750573
327.438612		67.734450	3644.290	
1.00000		14.385786	376.974218	7.750573
327.438612		69.033694	3535.156	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-13.220077	-272.890378	-6.305561
-377.941597		-47.661859	-1020.165	
0.25000		-13.220077	-248.015246	-6.305561
-377.941597		-47.910093	-1102.356	
0.50000		-13.220077	-224.055649	-6.305561
-377.941597		-49.191489	-1184.547	
0.75000		-13.220077	-201.432657	-6.305561
-377.941597		-51.565871	-1266.738	
1.00000		-13.220077	-180.597920	-6.305561
-377.941597		-54.910020	-1348.929	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		10.396776	41.296425	1.781848
155.381509		7.710317	792.116734	
0.25000		10.396776	41.303541	1.781848
155.395494		10.396568	774.705731	
0.50000		10.396776	41.311228	1.781848
155.411083		13.269727	757.372283	
0.75000		10.396776	41.319536	1.781848
155.427841		16.263163	740.384944	
1.00000		10.396776	41.327732	1.781848
155.445298		19.310381	723.467799	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.793520	-28.875438	-5.742174
-55.688310		-63.539287	-710.640004	
0.25000		-9.793520	-28.867561	-5.742174
-55.669603		-60.572554	-710.768615	
0.50000		-9.793520	-28.860000	-5.742174
-55.651648		-58.038046	-710.884275	
0.75000		-9.793520	-28.852921	-5.742174
-55.634901		-55.928579	-711.009589	
1.00000		-9.793520	-28.846456	-5.742174
-55.619787		-54.132657	-711.136675	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 1509
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		17.005471	90.063602	3.806172
285.198037		9.212560	1626.044	
0.25000		17.005471	90.070716	3.806172
285.211989		12.154479	1586.616	
0.50000		17.005471	90.078400	3.806172
285.227547		15.336451	1548.524	
0.75000		17.005471	90.086505	3.806172
285.244272		18.772992	1511.220	
1.00000		17.005471	90.094898	3.806172
285.261695		22.786578	1474.385	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.991034	-55.475674	-8.584473
-91.526461		-102.482051	-1294.935	
0.25000		-15.991034	-55.467801	-8.584473
-91.507786		-98.168895	-1299.127	
0.50000		-15.991034	-55.460243	-8.584473
-91.489861		-94.716151	-1303.311	
0.75000		-15.991034	-55.453167	-8.584473
-91.473143		-92.458099	-1307.493	
1.00000		-15.991034	-55.446704	-8.584473
-91.458055		-91.081382	-1311.681	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		18.244772	160.759076	4.170804
376.070189		12.843636	2675.752	
0.25000		18.244772	160.963944	4.170804
376.471804		15.503305	2604.560	
0.50000		18.244772	161.185209	4.170804
376.919656		18.568446	2537.349	
0.75000		18.244772	161.418615	4.170804
377.401096		21.970304	2474.499	
1.00000		18.244772	161.660309	4.170804
377.902612		25.902094	2416.209	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-16.776048	-91.695455	-8.216590
-155.487253		-95.619731	-1809.054	
0.25000		-16.776048	-91.468733	-8.216590
-154.949633		-91.883317	-1821.810	
0.50000		-16.776048	-91.251082	-8.216590
-154.433615		-89.175223	-1834.560	
0.75000		-16.776048	-91.047309	-8.216590
-153.952363		-87.659227	-1847.305	
1.00000		-16.776048	-90.861196	-8.216590
-153.518010		-87.063850	-1860.053	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		18.673034	241.997071	6.076453
377.955578		45.933444	3482.998	
0.25000		18.673034	252.362218	6.076453
394.901868		47.212838	3416.714	
0.50000		18.673034	263.538359	6.076453
413.995295		48.932566	3339.674	
0.75000		18.673034	275.311334	6.076453
434.605538		50.973876	3254.693	
1.00000		18.673034	287.475969	6.076453
456.014694		53.594264	3159.898	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-16.830300	-192.058873	-8.211853

-330.147345 -86.124737 -2009.542
0.25000 -16.830300 -180.687958 -8.211853
-306.517698 -83.883248 -2029.903
0.50000 -16.830300 -169.750391 -8.211853
-283.762895 -82.505757 -2050.181
0.75000 -16.830300 -159.496209 -8.211853
-262.569544 -82.129582 -2070.424
1.00000 -16.830300 -150.124162 -8.211853
-243.569223 -82.535208 -2090.762
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.373261	66.101842	2.125076
147.040275	2.136163	1082.079	
0.25000	6.373261	66.172983	2.125076
147.179797	2.258642	1052.874	
0.50000	6.373261	66.249818	2.125076
147.335378	2.428020	1025.453	
0.75000	6.373261	66.330869	2.125076
147.502627	2.837554	998.874203	
1.00000	6.373261	66.414800	2.125076
147.676851	3.676411	972.630372	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.892988	-34.022772	-2.488636
-48.448606	-33.875344	-687.626300	
0.25000	-5.892988	-33.944040	-2.488636
-48.261852	-32.805501	-694.184041	
0.50000	-5.892988	-33.868459	-2.488636
-48.082604	-32.240235	-700.750848	
0.75000	-5.892988	-33.797698	-2.488636
-47.915431	-32.727782	-707.305582	
1.00000	-5.892988	-33.733069	-2.488636
-47.764548	-33.661037	-713.858297	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.689057	170.195283	3.195613
281.431870	17.890831	2504.320	
0.25000	8.689057	170.202399	3.195613
281.445848	17.710096	2424.393	
0.50000	8.689057	170.210085	3.195613
281.461430	17.793630	2355.028	
0.75000	8.689057	170.218192	3.195613
281.478179	18.165659	2300.273	
1.00000	8.689057	170.226588	3.195613
281.495627	19.000106	2256.793	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.473880	-93.799386	-2.987797
-162.824088	-33.944175	-1375.256	
0.25000	-7.473880	-93.791510	-2.987797
-162.805388	-33.403029	-1392.774	
0.50000	-7.473880	-93.783850	-2.987797
-162.787441	-33.532769	-1410.273	
0.75000	-7.473880	-93.776872	-2.987797
-162.770701	-34.562729	-1427.782	
1.00000	-7.473880	-93.770407	-2.987797
-162.755594	-36.140898	-1445.300	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.764235	189.285177	4.460451
378.280888	19.292535	2932.515	
0.25000	15.764235	189.291582	4.460451
378.293468	20.801128	2844.641	
0.50000	15.764235	189.298499	4.460451
378.307491	22.652432	2766.563	
0.75000	15.764235	189.305795	4.460451
378.322565	24.827674	2701.768	
1.00000	15.764235	189.313351	4.460451
378.338269	27.497284	2647.079	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.207357	-107.782338	-6.681687
-187.244081	-37.950805	-1807.805	
0.25000	-14.207357	-107.775250	-6.681687
-187.227251	-76.117672	-1829.374	
0.50000	-14.207357	-107.768445	-6.681687
-187.211099	-74.669727	-1853.415	
0.75000	-14.207357	-107.762075	-6.681687
-187.196033	-74.342506	-1877.467	
1.00000	-14.207357	-107.756357	-6.681687
-187.182436	-74.829797	-1901.539	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.453245	279.713858	7.353555
340.874480	62.114014	3847.874	
0.25000	18.453245	295.410141	7.353555
341.937016	61.868453	3789.343	
0.50000	18.453245	312.305803	7.353555
362.612648	62.039293	3710.341	
0.75000	18.453245	330.058059	7.353555
385.120666	62.674218	3612.654	
1.00000	18.453245	348.339386	7.353555
408.316512	63.955217	3495.222	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.537095	-239.237916	-7.315248
-359.640514	-72.812648	-2028.144	
0.25000	-16.537095	-222.241687	-7.315248
-332.313157	-73.077204	-2055.814	
0.50000	-16.537095	-205.843357	-7.315248
-305.631624	-72.107823	-2087.431	
0.75000	-16.537095	-190.432271	-7.315248
-280.853724	-73.076000	-2118.021	
1.00000	-16.537095	-176.341837	-7.315248
-271.208015	-74.750412	-2148.700	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.401786	192.978329	6.447241
103.966292	79.557670	2233.494	
0.25000	9.401786	212.902439	6.447241
103.966292	76.357641	2239.548	
0.50000	9.401786	234.315330	6.447241
103.966292	73.709872	2211.683	
0.75000	9.401786	256.702171	6.447241
103.966292	71.729124	2149.071	
1.00000	9.401786	279.595222	6.447241
103.730516	70.358393	2053.129	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.421525	-215.415707	-3.028390
-293.535225 -12.849705 -800.943295
0.25000 -8.421525 -194.373055 -3.028390
-297.925883 -15.092255 -817.783411
0.50000 -8.421525 -173.925629 -3.028390
-302.316542 -17.334884 -834.798565
0.75000 -8.421525 -154.630057 -3.028390
-306.707201 -19.581993 -852.164890
1.00000 -8.421525 -136.958381 -3.028390
-310.862177 -21.900340 -868.907228

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.904143	302.748403	8.422868
208.915210	108.648783	3595.492	
0.25000	11.904143	325.776828	8.422868
208.915210	104.847533	3560.898	
0.50000	11.904143	350.536433	8.422868
208.915210	101.620863	3495.933	
0.75000	11.904143	376.453027	8.422868
208.915210	99.112653	3407.295	
1.00000	11.904143	402.997334	8.422868
208.915210	97.274125	3290.595	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.195954	-297.987156	-4.204188
-420.312787	-19.756827	-1407.677	
0.25000	-10.195954	-273.521827	-4.204188
-420.798539	-22.649443	-1437.411	
0.50000	-10.195954	-249.791193	-4.204188
-421.284291	-25.552689	-1467.732	
0.75000	-10.195954	-227.415647	-4.204188
-421.770043	-28.470708	-1497.418	
1.00000	-10.195954	-206.926697	-4.204188
-422.255777	-31.468934	-1527.159	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.022721	335.612148	8.644928
301.811073	95.441342	4264.265	
0.25000	15.022721	356.716813	8.644928
301.811073	92.296690	4207.283	
0.50000	15.022721	379.409243	8.644928
301.811073	89.885819	4123.639	
0.75000	15.022721	403.165620	8.644928
301.811073	88.166785	4016.720	
1.00000	15.022721	427.502194	8.644928
301.811073	87.135985	3884.328	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.047339	-300.107574	-4.847024
-419.225944	-31.290999	-1873.816	
0.25000	-13.047339	-277.669712	-4.847024
-419.141368	-33.488163	-1905.198	
0.50000	-13.047339	-255.909813	-4.847024
-419.056791	-36.210229	-1936.770	
0.75000	-13.047339	-235.396271	-4.847024
-418.972214	-39.467846	-1968.125	
1.00000	-13.047339	-216.610053	-4.847024
-418.887640	-42.996744	-1999.570	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.745410	313.924066	8.779495
358.203989	81.148505	4174.405	
0.25000	18.745410	331.517696	8.779495
358.203989	79.273155	4111.449	
0.50000	18.745410	350.434986	8.779495
358.203989	78.074350	4026.801	
0.75000	18.745410	370.239342	8.779495
358.203989	77.612386	3922.790	
1.00000	18.745410	390.527535	8.779495
358.203989	77.973312	3797.616	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.736693	-270.428250	-6.954864
-379.700189	-63.789493	-2052.183	
0.25000	-16.736693	-251.722674	-6.954864
-379.512066	-64.251261	-2085.275	
0.50000	-16.736693	-233.582427	-6.954864
-379.423942	-65.453122	-2118.522	
0.75000	-16.736693	-216.481296	-6.954864
-379.335818	-67.562643	-2153.994	
1.00000	-16.736693	-200.821156	-6.954864
-379.247697	-70.320336	-2187.525	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.385786	315.065996	7.750573
357.526922	95.424053	4113.278	
0.25000	14.385786	340.990160	7.750573
357.952577	91.180779	4046.734	
0.50000	14.385786	368.865618	7.750573
378.345450	88.246560	3964.712	
0.75000	14.385786	398.100049	7.750573
405.788948	86.744185	3870.195	
1.00000	14.385786	428.134922	7.750573
437.250270	86.629902	3756.600	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.220077	-328.621887	-6.872253
-424.900677	-87.855016	-1020.165	
0.25000	-13.220077	-296.142409	-6.872253
-424.900677	-83.659213	-1102.356	
0.50000	-13.220077	-264.803104	-6.872253
-424.900677	-80.740128	-1184.547	
0.75000	-13.220077	-235.215737	-6.872253
-424.900677	-79.290331	-1266.738	
1.00000	-13.220077	-207.975252	-6.872253
-424.900677	-79.264849	-1348.929	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.745410	335.612148	8.779495
378.280888	108.648783	4264.265	
0.25000	18.745410	356.716813	8.779495
394.901868	104.847533	4207.283	
0.50000	18.745410	379.409243	8.779495
413.995295	101.620863	4123.639	
0.75000	18.745410	403.165620	8.779495
434.605538	99.112653	4016.720	
1.00000	18.745410	427.502194	8.779495
456.014694	97.274125	3884.328	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.830300	-300.107574	-8.584473
-420.312787 -102.482051 -2052.183
0.25000 -16.830300 -277.669712 -8.584473
-420.798539 -98.168895 -2085.275
0.50000 -16.830300 -255.909813 -8.584473
-421.284291 -94.716151 -2118.522
0.75000 -16.830300 -235.396271 -8.584473
-421.770043 -92.458099 -2153.994
1.00000 -16.830300 -216.610053 -8.584473
-422.255777 -91.081382 -2187.525

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.745410	335.612148	8.779495
378.280888	108.648783	4264.265	
0.25000	18.745410	356.716813	8.779495
394.901868	104.847533	4207.283	
0.50000	18.745410	379.409243	8.779495
413.995295	101.620863	4123.639	
0.75000	18.745410	403.165620	8.779495
434.605538	99.112653	4016.720	
1.00000	18.745410	427.502194	8.779495
456.014694	97.274125	3884.328	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.830300	-328.621887	-8.584473
-424.900677	-102.482051	-2052.183	
0.25000	-16.830300	-296.142409	-8.584473
-424.900677	-98.168895	-2085.275	
0.50000	-16.830300	-264.803104	-8.584473
-424.900677	-94.716151	-2118.522	
0.75000	-16.830300	-235.396271	-8.584473
-424.900677	-92.458099	-2153.994	
1.00000	-16.830300	-216.610053	-8.584473
-424.900677	-91.081382	-2187.525	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.745410	335.612148	8.779495
378.280888	108.648783	4264.265	
0.25000	18.745410	356.716813	8.779495
394.901868	104.847533	4207.283	
0.50000	18.745410	379.409243	8.779495
413.995295	101.620863	4123.639	
0.75000	18.745410	403.165620	8.779495
434.605538	99.112653	4016.720	
1.00000	18.745410	427.502194	8.779495
456.014694	97.274125	3884.328	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.830300	-328.621887	-8.584473
-424.900677	-102.482051	-2052.183	
0.25000	-16.830300	-296.142409	-8.584473
-424.900677	-98.168895	-2085.275	
0.50000	-16.830300	-264.803104	-8.584473
-424.900677	-94.716151	-2118.522	
0.75000	-16.830300	-235.396271	-8.584473
-424.900677	-92.458099	-2153.994	
1.00000	-16.830300	-216.610053	-8.584473
-424.900677	-91.081382	-2187.525	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 123 ========== LENGTH = 4.928139

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.725456	34.509595	0.397170
203.357445	14.844894	497.722434	
0.25000	7.725456	34.522494	0.397170
203.379667	17.324368	460.293464	
0.50000	7.725456	34.536106	0.397170
203.411590	19.863048	423.542253	
0.75000	7.725456	34.550207	0.397170
203.444724	22.462338	387.841879	
1.00000	7.725456	34.566021	0.397170
203.483169	25.022947	353.437097	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.580432	-18.761180	-5.170127
-49.492087	-46.962812	-417.570249	
0.25000	-7.580432	-18.745405	-5.170127
-49.451400	-42.394495	-427.480688	
0.50000	-7.580432	-18.731508	-5.170127
-49.416827	-38.371808	-437.437165	
0.75000	-7.580432	-18.718369	-5.170127
-49.384259	-34.950846	-447.442978	
1.00000	-7.580432	-18.706188	-5.170127
-49.354189	-32.202591	-457.527153	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.766176	79.777823	1.424934
370.670828	17.354500	1069.896	
0.25000	12.766176	79.790717	1.424934
370.692843	20.527576	986.865115	
0.50000	12.766176	79.804325	1.424934
370.724720	23.865652	906.708537	
0.75000	12.766176	79.818421	1.424934
370.757807	27.463679	830.848794	
1.00000	12.766176	79.834227	1.424934
370.796194	31.249165	758.807672	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.433226	-34.981735	-8.274737
-76.706955	-78.422473	-783.114824	
0.25000	-12.433226	-34.965969	-8.274737
-76.666331	-71.815088	-808.644391	
0.50000	-12.433226	-34.952077	-8.274737
-76.631806	-66.361092	-834.173997	
0.75000	-12.433226	-34.938943	-8.274737
-76.599285	-62.214776	-859.783749	
1.00000	-12.433226	-34.926766	-8.274737
-76.569262	-59.379115	-885.511874	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.756839	148.315716	1.924264
474.613664	18.370714	1878.551	
0.25000	13.756839	148.327322	1.924264
474.633524	21.205212	1728.760	
0.50000	13.756839	148.339569	1.924264
474.662224	24.190139	1591.789	
0.75000	13.756839	148.352257	1.924264
474.692013	27.398451	1469.571	
1.00000	13.756839	148.366484	1.924264
474.726574	30.840565	1362.281	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.236029	-48.415704	-7.835067
-107.232027	-72.525937	-1115.025	
0.25000	-13.236029	-48.401513	-7.835067
-107.195452	-66.557136	-1163.783	
0.50000	-13.236029	-48.389009	-7.835067
-107.164368	-61.863746	-1212.542	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-13.236029	-48.377187	-7.835067
-107.135089	-58.556594	-1261.370	
1.00000	-13.236029	-48.366227	-7.835067
-107.108058	-56.543813	-1310.313	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.517088	252.307342	4.149448
447.057997	42.721683	2764.587	
0.25000	14.517088	264.374324	4.149448
453.635150	43.067946	2602.210	
0.50000	14.517088	277.146076	4.149448
471.710896	43.817816	2439.256	
0.75000	14.517088	290.398722	4.149448
490.865939	45.104288	2282.273	
1.00000	14.517088	304.951894	4.149448
522.423334	47.004161	2126.818	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.694419	-150.136859	-6.962592
-328.737795	-67.576936	-1286.098	
0.25000	-13.694419	-135.639658	-6.962592
-295.372762	-63.874941	-1354.997	
0.50000	-13.694419	-122.603901	-6.962592
-266.596145	-61.237596	-1423.947	
0.75000	-13.694419	-110.291782	-6.962592
-243.449348	-59.754133	-1492.958	
1.00000	-13.694419	-98.901677	-6.962592
-221.008889	-59.355885	-1562.080	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.910070	64.456473	1.307087
188.131860	2.354753	791.072432	
0.25000	4.910070	64.598320	1.307087
188.374596	2.660927	728.610707	
0.50000	4.910070	64.748017	1.307087
188.725366	3.145295	669.869233	
0.75000	4.910070	64.903087	1.307087
189.089451	3.817990	616.101242	
1.00000	4.910070	65.076975	1.307087
189.511868	4.662905	567.454323	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.678401	-19.944935	-2.804046
-21.703192	-27.789024	-442.584722	
0.25000	-4.678401	-19.771485	-2.804046
-21.256155	-26.182414	-464.833419	
0.50000	-4.678401	-19.618656	-2.804046
-20.876246	-25.239733	-487.082619	
0.75000	-4.678401	-19.474169	-2.804046
-20.515387	-24.567870	-509.331843	
1.00000	-4.678401	-19.340213	-2.804046
-20.188009	-25.423202	-531.581093	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.812795	171.125527	2.384364
330.179081	13.306873	1970.596	
0.25000	6.812795	171.138422	2.384364
330.201148	12.849908	1808.627	
0.50000	6.812795	171.152031	2.384364
330.233036	12.622327	1669.233	
0.75000	6.812795	171.166128	2.384364
330.266135	12.691621	1562.162	
1.00000	6.812795	171.181936	2.384364
330.304537	13.124086	1482.114	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.200861	-49.305213	-2.770486
-126.783043	-27.655202	-896.933883	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-6.200861	-49.289445	-2.770486
-126.742403	-26.688997	-950.565151	
0.50000	-6.200861	-49.275551	-2.770486
-126.707866	-26.496740	-1004.197	
0.75000	-6.200861	-49.262416	-2.770486
-126.675333	-27.088698	-1057.837	
1.00000	-6.200861	-49.250238	-2.770486
-126.645299	-28.321289	-1111.496	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.080544	184.763403	2.594546
460.868999	19.797615	2204.471	
0.25000	12.080544	184.775008	2.594546
460.888859	21.333143	2025.563	
0.50000	12.080544	184.787256	2.594546
460.917558	23.073387	1867.497	
0.75000	12.080544	184.799944	2.594546
460.947347	25.059382	1739.445	
1.00000	12.080544	184.814171	2.594546
460.981908	27.359451	1637.079	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.388969	-59.501704	-6.307430
-150.028681	-61.303280	-1148.170	
0.25000	-11.388969	-59.487513	-6.307430
-149.992105	-57.267050	-1206.165	
0.50000	-11.388969	-59.475008	-6.307430
-149.961022	-54.384375	-1264.221	
0.75000	-11.388969	-59.463187	-6.307430
-149.931742	-52.744186	-1322.284	
1.00000	-11.388969	-59.452227	-6.307430
-149.904711	-52.248647	-1380.394	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.654255	301.895527	5.679184
404.857036	53.288076	3167.746	
0.25000	14.654255	320.422803	5.679184
404.857036	51.736983	3009.558	
0.50000	14.654255	340.109896	5.679184
404.857036	50.810425	2840.511	
0.75000	14.654255	360.585355	5.679184
411.431993	50.666107	2665.218	
1.00000	14.654255	382.426256	5.679184
432.193883	51.379509	2480.617	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.723978	-202.042292	-5.933062

-363.914224 -59.398635 -1320.182
0.25000 -13.723978 -180.326537 -5.933062
-342.481091 -57.699580 -1398.788
0.50000 -13.723978 -160.239191 -5.933062
-318.866087 -56.962842 -1477.538
0.75000 -13.723978 -141.292369 -5.933062
-293.454131 -57.266251 -1556.300
1.00000 -13.723978 -123.816165 -5.933062
-291.652031 -58.521131 -1635.098

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.049655	232.832750	6.196540
43.998942		63.980746	2119.165	
0.25000		8.049655	256.529341	6.196540
43.998942		58.911604	2084.216	
0.50000		8.049655	281.920206	6.196540
43.998942		54.809868	2018.623	
0.75000		8.049655	308.444713	6.196540
43.998942		51.726421	1918.900	
1.00000		8.049655	335.121406	6.196540
43.998942		49.699927	1785.205	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.508461	-216.437122	-1.363321
-396.138397		-14.496284	-558.874609	
0.25000		-7.508461	-190.020004	-1.363321
-396.138397		-17.336125	-606.466907	
0.50000		-7.508461	-164.132141	-1.363321
-396.138397		-20.180605	-654.124438	
0.75000		-7.508461	-139.776313	-1.363321
-396.138397		-23.025991	-701.855475	
1.00000		-7.508461	-117.454645	-1.363321
-396.138397		-25.872074	-749.586537	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		10.280030	352.090469	8.027709
148.306454		84.319991	3331.123	
0.25000		10.280030	380.408368	8.027709
148.306454		77.740195	3215.915	
0.50000		10.280030	410.664479	8.027709
148.306454		72.320247	3081.943	
0.75000		10.280030	442.232851	8.027709
148.306454		68.199479	2931.346	
1.00000		10.280030	474.534904	8.027709
148.306454		65.445032	2756.451	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.295487	-279.613997	-1.703125
-515.809657		-21.393008	-971.837984	
0.25000		-9.295487	-247.587231	-1.703125
-515.809657		-25.199381	-1049.823	
0.50000		-9.295487	-216.730109	-1.703125
-515.809657		-29.021275	-1127.905	
0.75000		-9.295487	-187.679475	-1.703125
-515.809657		-32.861312	-1206.062	
1.00000		-9.295487	-160.993357	-1.703125
-515.809657		-36.716115	-1284.242	

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		12.559915	378.553796	7.987850
284.127423		75.363947	3757.308	
0.25000		12.559915	404.529634	7.987850
284.127423		69.799874	3596.968	
0.50000		12.559915	432.273327	7.987850
284.127423		65.281310	3420.064	
0.75000		12.559915	461.217781	7.987850
284.127423		62.005508	3231.876	
1.00000		12.559915	490.886171	7.987850
284.127423		60.028429	3028.262	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.514714	-268.752262	-2.820898
-470.221462		-31.752178	-1025.748	
0.25000		-11.514714	-239.333158	-2.820898
-470.221462		-31.752178	-1357.745	
0.50000		-11.514714	-211.036528	-2.820898
-470.221462		-34.871456	-1449.833	
0.75000		-11.514714	-184.394668	-2.820898
-470.221462		-38.431588	-1541.985	
1.00000		-11.514714	-159.915554	-2.820898
-470.221462		-42.385671	-1634.153	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		15.166821	345.677686	7.250886
376.171542		66.553167	3535.295	
0.25000		15.166821	367.334074	7.250886
376.171542		63.050104	3369.898	
0.50000		15.166821	390.465806	7.250886
376.171542		60.473662	3191.734	
0.75000		15.166821	414.597702	7.250886
376.171542		59.015276	3005.322	
1.00000		15.166821	439.334869	7.250886
376.171542		58.700346	2807.065	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-14.157407	-236.840603	-5.288588
-418.597661		-53.535878	-1348.951	
0.25000		-14.157407	-212.311169	-5.288588
-418.597661		-53.535647	-1433.821	
0.50000		-14.157407	-188.719241	-5.288588
-418.597661		-54.365267	-1522.834	
0.75000		-14.157407	-166.506894	-5.288588
-418.597661		-56.125492	-1609.902	
1.00000		-14.157407	-146.097523	-5.288588
-418.597661		-58.723481	-1696.980	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		10.692188	52.345669	0.646743
255.938712		18.170398	722.581727	
0.25000		10.692188	52.353185	0.646743
255.952476		21.423616	683.461711	
0.50000		10.692188	52.361015	0.646743
255.967677		24.903596	644.362075	
0.75000		10.692188	52.369346	0.646743
255.983895		28.704948	605.757991	
1.00000		10.692188	52.377920	0.646743
256.000699		32.976031	567.231991	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.251675	-28.797137	-7.131708
-78.728320 -53.314931 -710.813243
0.25000 -10.251675 -28.789596 -7.131708
-78.708968 -48.129005 -699.572611
0.50000 -10.251675 -28.782417 -7.131708
-78.690553 -43.315904 -688.321529
0.75000 -10.251675 -28.775745 -7.131708
-78.673502 -39.109560 -677.072003
1.00000 -10.251675 -28.769697 -7.131708
-78.658141 -35.647855 -669.767667

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		17.434815	117.922945	1.516875
455.479896		21.225336	1472.866	
0.25000		17.434815	117.930354	1.516875
455.493630		25.560525	1384.816	
0.50000		17.434815	117.938285	1.516875
455.508798		30.309199	1297.934	
0.75000		17.434815	117.946613	1.516875
455.524983		35.630440	1213.177	
1.00000		17.434815	117.955184	1.516875
455.541752		41.777366	1129.166	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-16.727002	-53.351146	-10.873069
-114.150883		-90.107870	-1311.229	
0.25000		-16.727002	-53.343609	-10.873069
-114.131563		-72.124084	-1299.350	
0.50000		-16.727002	-53.336433	-10.873069
-114.113177		-75.045053	-1287.498	
0.75000		-16.727002	-53.329764	-10.873069
-114.096153		-69.326646	-1275.660	
1.00000		-16.727002	-53.323718	-10.873069
-114.080817		-64.834082	-1272.446	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		18.540371	210.735693	1.984741
549.904047		94.060509	2644.961	
0.25000		18.540371	210.949063	1.984741
550.299362		27.939332	2262.823	
0.50000		18.540371	211.177452	1.984741
550.735974		32.224007	2113.046	
0.75000		18.540371	211.417292	1.984741
551.201848		37.077782	1968.378	
1.00000		18.540371	211.664596	1.984741
551.684540		42.718517	1828.705	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-17.439769	-79.104328	-10.159083
-140.547637		-86.267138	-1859.660	
0.25000		-17.439769	-78.887286	-10.159083
-139.991441		-79.322199	-1859.015	
0.50000		-17.439769	-78.680638	-10.159083
-139.462115		-73.271043	-1858.419	
0.75000		-17.439769	-78.488596	-10.159083
-138.972019		-68.471403	-1858.559	
1.00000		-17.439769	-78.314492	-10.159083
-138.530530		-64.913727	-1872.063	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.248353	307.665716	5.011961
512.041834		51.063614	3158.905	
0.25000		19.248353	318.473913	5.011961
528.430854		52.297565	2991.381	
0.50000		19.248353	330.032304	5.011961
546.761423		54.054847	2810.888	
0.75000		19.248353	342.160124	5.011961
566.420885		56.456715	2623.572	
1.00000		19.248353	354.614128	5.011961
586.780823		59.707621	2426.783	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-17.772188	-165.774492	-9.092818
-347.039344		-81.148492	-2090.565	
0.25000		-17.772188	-154.921626	-9.092818
-322.612184		-76.906459	-2105.278	
0.50000		-17.772188	-144.564140	-9.092818
-298.974722		-73.500786	-2120.130	
0.75000		-17.772188	-134.921514	-9.092818
-277.075245		-71.238374	-2137.350	
1.00000		-17.772188	-126.161814	-9.092818
-257.450488		-70.160409	-2168.944	

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		6.455759	88.449627	1.061087
210.627900		3.393623	971.999343	
0.25000		6.455759	88.523720	1.061087
210.765238		3.948761	907.582549	
0.50000		6.455759	88.603029	1.061087
210.916920		4.665142	844.637992	
0.75000		6.455759	88.686314	1.061087
211.078766		5.605090	784.234153	
1.00000		6.455759	88.772022	1.061087
211.246455		6.851322	724.074249	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-6.125976	-29.838435	-3.205276
-28.508408		-33.731132	-713.770202	
0.25000		-6.125976	-29.763065	-3.205276
-28.315206		-31.166775	-717.110229	
0.50000		-6.125976	-29.691304	-3.205276
-28.131340		-29.221426	-720.665659	
0.75000		-6.125976	-29.624616	-3.205276
-27.961101		-28.216079	-723.834071	
1.00000		-6.125976	-29.564157	-3.205276
-27.807744		-27.551322	-733.419970	

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.755612	221.528709	2.432388
347.877699		17.978482	2256.077	
0.25000		8.755612	221.536120	2.432388
347.891456		17.850556	2099.336	
0.50000		8.755612	221.544053	2.432388
347.906648		17.978148	1950.407	
0.75000		8.755612	221.552384	2.432388
347.922858		18.356590	1817.245	
1.00000		8.755612	221.560957	2.432388
347.939653		19.114362	1695.710	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-7.785750	-74.179928	-3.189607
-113.938162 -35.997467 -1445.277
0.25000 -7.785750 -74.172389 -3.189607
-113.918819 -34.624308 -1462.923
0.50000 -7.785750 -74.165210 -3.189607
-113.900410 -33.863055 -1480.591
0.75000 -7.785750 -74.158539 -3.189607
-113.883366 -33.840394 -1499.690
1.00000 -7.785750 -74.152491 -3.189607
-113.868012 -34.327240 -1530.302

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		16.033478	246.616881	2.736124
517.760193		25.636718	2645.727	
0.25000		16.033478	246.623551	2.736124
517.772574		27.985574	2469.000	
0.50000		16.033478	246.630991	2.736124
517.786247		30.676478	2299.525	
0.75000		16.033478	246.638188	2.736124
517.800836		33.799519	2144.537	
1.00000		16.033478	246.645904	2.736124
517.815952		37.550947	2000.388	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-14.839082	-89.890450	-8.018137
-157.338770		-74.083770	-1901.319	
0.25000		-14.839082	-89.883664	-8.018137
-157.327361		-69.212220	-1939.560	
0.50000		-14.839082	-89.877203	-8.018137
-157.304794		-65.227565	-1955.299	
0.75000		-14.839082	-89.871200	-8.018137
-157.289454		-62.343692	-1972.317	
1.00000		-14.839082	-89.865757	-8.018137
-157.275635		-60.430680	-1999.354	

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.153917	353.693902	6.875136
461.996341		61.182568	3794.782	
0.25000		19.153917	370.096810	6.875136
461.993523		60.340714	3324.860	
0.50000		19.153917	387.618093	6.875136
464.232623		60.022866	3132.742	
0.75000		19.153917	405.972626	6.875136
484.923850		60.437915	2922.849	
1.00000		19.153917	424.774479	6.875136
506.275829		61.784156	2693.730	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-17.598669	-206.233234	-7.524017
-406.614898		-73.187604	-2148.697	
0.25000		-17.598669	-190.089796	-7.524017
-378.637379		-71.323643	-2198.219	
0.50000		-17.598669	-174.623310	-7.524017
-350.258028		-70.267281	-2229.104	
0.75000		-17.598669	-160.177232	-7.524017
-323.860378		-70.273897	-2263.277	
1.00000		-17.598669	-147.057186	-7.524017
-315.111535		-71.321153	-2308.857	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		10.205155	234.682243	8.043430
68.717740		68.287019	2054.446	
0.25000		10.205155	255.621946	8.043430
68.717740		63.024222	2001.555	
0.50000		10.205155	277.956420	8.043430
68.717740		58.386512	1914.899	
0.75000		10.205155	301.269371	8.043430
68.717740		54.579172	1793.673	
1.00000		10.205155	325.013638	8.043430
68.717740		51.740318	1638.759	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.322635	-186.994746	-1.535908
-415.183432		-81.148492	-2090.565	
0.25000		-9.322635	-167.187290	-1.535908
-419.674448		-23.965731	-898.011716	
0.50000		-9.322635	-148.058447	-1.535908
-424.064969		-27.869507	-926.572234	
0.75000		-9.322635	-130.082129	-1.535908
-428.455489		-32.039610	-959.036586	
1.00000		-9.322635	-113.700327	-1.535908
-432.846009		-36.604674	-995.550092	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		12.879304	371.678508	10.625479
175.318566		94.333486	3292.038	
0.25000		12.879304	395.857062	10.625479
175.318566		87.485868	3159.967	
0.50000		12.879304	421.647363	10.625479
175.318566		81.446919	2995.630	
0.75000		12.879304	448.589711	10.625479
175.318566		76.392630	2808.228	
1.00000		12.879304	476.064745	10.625479
175.318566		72.409570	2593.134	

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.349271	-253.337803	-2.083757
-538.290566		-29.255603	-1527.566	
0.25000		-11.349271	-230.259107	-2.083757
-538.776302		-34.083540	-1579.617	
0.50000		-11.349271	-208.013550	-2.083757
-539.262039		-39.267761	-1626.154	
0.75000		-11.349271	-187.136529	-2.083757
-539.747775		-44.676852	-1677.948	
1.00000		-11.349271	-168.132967	-2.083757
-540.233512		-50.648170	-1737.035	

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		15.865830	418.848858	9.976470
313.511942		84.255286	3885.178	
0.25000		15.865830	441.004598	9.976470
313.511942		78.641934	3707.023	
0.50000		15.865830	464.637785	9.976470
313.511942		73.778165	3500.560	
0.75000		15.865830	489.329251	9.976470
313.511942		69.796624	3271.674	
1.00000		15.865830	514.512669	9.976470
313.511942		66.866668	3017.252	

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-14.163516	-254.226173	-3.258772
-495.572082		-41.243785	-1999.903	
0.25000		-14.163516	-233.053920	-3.258772
-495.487508		-44.567844	-2044.840	
0.50000		-14.163516	-212.650837	-3.258772
-495.402934		-48.442816	-2089.681	
0.75000		-14.163516	-193.506323	-3.258772
-495.318360		-53.034250	-2139.732	
1.00000		-14.163516	-176.079231	-3.258772
-495.233786		-58.274780	-2203.137	

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.594412	394.907209	8.878721
433.003080		74.976282	3797.745	
0.25000		19.594412	413.376958	8.878721
433.003080		71.866623	3614.815	
0.50000		19.594412	433.078371	8.878721
433.003080		69.531797	3408.586	
0.75000		19.594412	453.622086	8.878721
433.003080		68.132171	3184.174	
1.00000		19.594412	474.656036	8.878721
433.003080		67.867678	2938.958	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-17.937789	-231.541368	-6.513316
-451.145087		-68.523070	-2187.664	
0.25000		-17.937789	-213.809279	-6.513316
-451.086966		-66.600235	-2226.281	
0.50000		-17.937789	-196.881384	-6.513316
-450.968845		-69.490826	-2264.894	
0.75000		-17.937789	-180.921425	-6.513316
-450.880724		-71.434183	-2311.467	
1.00000		-17.937789	-166.393231	-6.513316
-450.792603		-74.357695	-2366.340	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		15.166821	378.553796	8.027709
474.613664		84.319991	3757.308	
0.25000		15.166821	404.528634	8.027709
474.633524		77.740195	3596.968	
0.50000		15.166821	432.273327	8.027709
474.662224		72.320247	3420.064	
0.75000		15.166821	461.217781	8.027709
490.865939		68.199479	3231.876	
1.00000		15.166821	490.886171	8.027709
522.423334		65.445032	3028.262	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-14.157407	-279.613997	-8.274737
-515.809657		-78.422473	-1348.951	
0.25000		-14.157407	-247.587231	-8.274737
-515.809657		-71.815088	-1435.821	
0.50000		-14.157407	-216.730109	-8.274737
-515.809657		-66.361092	-1522.834	
0.75000		-14.157407	-187.679475	-8.274737
-515.809657		-62.214776	-1609.902	
1.00000		-14.157407	-160.993357	-8.274737
-515.809657		-59.379115	-1696.980	

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.594412	418.848858	10.625479
549.904047		94.333486	3885.178	
0.25000		19.594412	441.004598	10.625479
550.299362		87.485868	3707.023	
0.50000		19.594412	464.637785	10.625479
550.735974		81.446919	3500.560	
0.75000		19.594412	489.329251	10.625479
566.420885		76.392630	3271.674	
1.00000		19.594412	514.512669	10.625479
586.780823		72.409570	3017.252	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-17.937789	-254.226173	-10.873069
-538.290566		-90.107870	-2187.664	
0.25000		-17.937789	-233.053920	-10.873069
-538.776302		-82.124084	-2226.281	
0.50000		-17.937789	-212.650837	-10.873069
-539.262039		-75.045053	-2264.894	
0.75000		-17.937789	-193.506323	-10.873069
-539.747775		-71.434183	-2311.467	
1.00000		-17.937789	-176.079231	-10.873069
-540.233512		-74.357695	-2366.340	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.594412	418.848858	10.625479
549.904047		94.333486	3885.178	
0.25000		19.594412	441.004598	10.625479
550.299362		87.485868	3707.023	
0.50000		19.594412	464.637785	10.625479
550.735974		81.446919	3500.560	
0.75000		19.594412	489.329251	10.625479
566.420885		76.392630	3271.674	
1.00000		19.594412	514.512669	10.625479
586.780823		72.409570	3028.262	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-17.937789	-279.613997	-10.873069
-538.290566		-90.107870	-2187.664	
0.25000		-17.937789	-247.587231	-10.873069
-538.776302		-82.124084	-2226.281	
0.50000		-17.937789	-216.730109	-10.873069
-539.262039		-75.045053	-2264.894	
0.75000		-17.937789	-193.506323	-10.873069
-539.747775		-71.434183	-2311.467	
1.00000		-17.937789	-176.079231	-10.873069
-540.233512		-74.357695	-2366.340	

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.594412	418.848858	10.625479
549.904047		94.333486	3885.178	
0.25000		19.594412	441.004598	10.625479
550.299362		87.485868	3707.023	
0.50000		19.594412	464.637785	10.625479
550.735974		81.446919	3500.560	
0.75000		19.594412	489.329251	10.625479
566.420885		76.392630	3271.674	
1.00000		19.594412	514.512669	10.625479
586.780823		72.409570	3028.262	

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-17.937789	-279.613997	-10.873069
-538.290566		-90.107870	-2187.664	
0.25000		-17.937789	-247.587231	-10.873069
-538.776302		-82.124084	-2226.281	
0.50000		-17.937789	-216.730109	-10.873069
-539.262039		-75.045053	-2264.894	
0.75000		-17.937789	-193.506323	-10.873069
-539.747775		-71.434183	-2311.467	
1.00000		-17.937789	-176.079231	-10.873069
-540.233512		-74.357695	-2366.340	

```
 ELEM      124 ================== LENGTH =     4.928060

 COMB DB-G1-1 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000     7.861741     41.012269     0.536788
255.135938    24.271643    352.370220
  0.25000     7.861741     41.025112     0.536788
255.157278    25.872666    307.561654
  0.50000     7.861741     41.038626     0.536788
255.187668    27.552588    264.333367
  0.75000     7.861741     41.052590     0.536788
255.221428    29.328024    223.268871
  1.00000     7.861741     41.068167     0.536788
255.260309    31.131674    202.397849

 COMB DB-G1-1 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    -7.911384    -18.276569    -5.160944
-66.988008   -31.757687   -457.284168
  0.25000    -7.911384    -18.261170    -5.160944
-66.947030   -26.959506   -453.385247
  0.50000    -7.911384    -18.247651    -5.160944
-66.912065   -22.723575   -449.940709
  0.75000    -7.911384    -18.234878    -5.160944
-66.878750   -19.134573   -446.592927
  1.00000    -7.911384    -18.223120    -5.160944
-66.847438   -16.222799   -443.506067

 COMB DB-G1-2 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    12.978115     96.084149     0.341564
459.448550    30.038129    756.964779
  0.25000    12.978115     96.096988     0.341564
459.469856    33.554039    652.846833
  0.50000    12.978115     96.110498     0.341564
459.500007    37.288353    554.547085
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1524

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST            P            V2            V3
        T            M2           M3
  0.75000    12.978115     96.124457     0.341564
459.533722    41.333721    462.620589
  1.00000    12.978115     96.140026     0.341564
459.572545    45.598359    398.169039

 COMB DB-G1-2 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -12.992802    -34.016627    -9.199370
-98.383070   -58.701053   -885.162470
  0.25000   -12.992802    -34.000888    -9.199370
-98.342154   -50.038725   -889.288247
  0.50000   -12.992802    -33.987373    -9.199370
-98.307236   -42.212214   -893.928730
  0.75000   -12.992802    -33.974604    -9.199370
-98.273968   -35.436565   -898.807034
  1.00000   -12.992802    -33.962851    -9.199370
-98.242702   -29.640402   -903.996826

 COMB DB-G1-3 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    13.962160     179.977727     0.549431
572.423023    29.126944    1360.293
  0.25000    13.962160     179.989283     0.549431
572.442206    32.173852    1171.417
  0.50000    13.962160     180.001443     0.549431
572.469396    35.418710    995.745186
  0.75000    13.962160     180.014007     0.549431
572.499750    38.861511    837.688048
  1.00000    13.962160     180.028021     0.549431
572.534703    42.553169    718.145065

 COMB DB-G1-3 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -13.790403    -47.886067    -8.830555
-94.151852   -56.190594    -1309.984
  0.25000   -13.790403    -47.872213    -8.830555
-94.115013   -48.061715    -1338.753
  0.50000   -13.790403    -47.860049    -8.830555
-94.083576   -40.923762    -1367.941
  0.75000   -13.790403    -47.848556    -8.830555
-94.053625   -34.939229    -1397.362
  1.00000   -13.790403    -47.837977    -8.830555
-94.025475   -30.087216    -1427.043

 COMB DB-G1-4 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    14.970408     301.575923     3.343250
532.447283    44.687531    2125.406
  0.25000    14.970408     313.631030     3.343250
533.550194    44.306375    1897.705
  0.50000    14.970408     326.339052     3.343250
551.605451    44.255340    1671.395
  0.75000    14.970408     339.480113     3.343250
569.607668    44.493667    1453.611
  1.00000    14.970408     353.826950     3.343250
599.482115    45.226542    1258.991

 COMB DB-G1-4 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -14.512948    -128.204312    -7.563050
-318.396872   -58.402801    -1561.907
  0.25000   -14.512948    -114.042407    -7.563050
-284.580773   -53.139096    -1621.494
  0.50000   -14.512948    -101.356194    -7.563050
-259.851067   -48.707792    -1681.463
  0.75000   -14.512948    -89.391741    -7.563050
-237.705077   -45.246390    -1741.718
  1.00000   -14.512948    -78.394022    -7.563050
-215.817866   -42.724060    -1802.206

 COMB DB-G2-1 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000     4.969715     78.515314     0.161747
224.247007    4.168042    566.688323
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1525

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST            P            V2            V3
        T            M2           M3
  0.25000     4.969715     78.656556     0.161747
224.481466    5.470973    486.093505
  0.50000     4.969715     78.805177     0.161747
224.813789    6.990642    410.302888
  0.75000     4.969715     78.958742     0.161747
225.184779    8.624857    340.248196
  1.00000     4.969715     79.130018     0.161747
225.611985   10.628147    277.997020

 COMB DB-G2-1 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    -4.890274    -19.648651    -3.827561
-26.882969   -25.286346   -531.496944
  0.25000    -4.890274    -19.479331    -3.827561
-26.432716   -21.802109   -547.437799
  0.50000    -4.890274    -19.330660    -3.827561
-26.048489   -18.554920   -563.462299
  0.75000    -4.890274    -19.190191    -3.827561
-25.682414   -15.776785   -579.491683
  1.00000    -4.890274    -19.060892    -3.827561
-25.338364   -13.268047   -595.634329

 COMB DB-G2-2 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000     6.978195     207.030628     1.300615
378.999050    11.850032    1481.199
  0.25000     6.978195     207.043468     1.300615
379.020365    11.962709    1271.079
  0.50000     6.978195     207.056979     1.300615
379.050576    12.247802    1084.553
  0.75000     6.978195     207.070939     1.300615
379.084302    12.731614    932.229852
  1.00000     6.978195     207.086510     1.300615
379.123139    13.508590    812.351978

 COMB DB-G2-2 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    -6.603790    -41.504408    -3.761839
-84.650254   -28.223001    -1111.437
  0.25000    -6.603790    -41.489015    -3.761839
-84.609322   -25.507421    -1161.241
  0.50000    -6.603790    -41.475500    -3.761839
-84.574393   -23.267885    -1211.123
  0.75000    -6.603790    -41.462730    -3.761839
-84.541113   -21.590225    -1261.005
  1.00000    -6.603790    -41.450975    -3.761839
-84.509836   -20.397955    -1310.930

 COMB DB-G2-3 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    12.320741     223.332788     1.262680
546.316291    25.506183    1635.401
  0.25000    12.320741     223.344344     1.262680
546.335474    27.563402    1405.231
  0.50000    12.320741     223.356504     1.262680
546.362664    29.663498    1198.089
  0.75000    12.320741     223.369068     1.262680
546.393018    31.942141    1023.859
  1.00000    12.320741     223.383082     1.262680
546.427971    34.484051    893.770225

 COMB DB-G2-3 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -12.007940    -52.124978    -7.510532
-122.930706   -51.829297    -1380.170
  0.25000   -12.007940    -52.111124    -7.510532
-122.893867   -45.455470    -1424.459
  0.50000   -12.007940    -52.098960    -7.510532
-122.862430   -39.843168    -1468.808
  0.75000   -12.007940    -52.087467    -7.510532
-122.832478   -35.145558    -1513.483
  1.00000   -12.007940    -52.076888    -7.510532
-122.804329   -31.289558    -1558.272
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1526

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    15.218718     360.554775     4.954895
485.065110    48.749177    2479.857
  0.25000    15.218718     379.146965     4.954895
485.065110    46.694128    2243.012
  0.50000    15.218718     398.794626     4.954895
485.065110    45.090572    1997.240
  0.75000    15.218718     419.133236     4.954895
485.065110    44.005900    1748.152
  1.00000    15.218718     440.690881     4.954895
496.356521    43.724044    1505.818

 COMB DB-G2-4 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -14.641229    -169.846627    -6.382799
-372.400091   -57.330027    -1635.067
  0.25000   -14.641229    -148.611877    -6.382799
-350.209137   -53.899419    -1712.698
  0.50000   -14.641229    -129.052498    -6.382799
-325.286242   -51.112839    -1790.455
  0.75000   -14.641229    -110.651897    -6.382799
-307.907613   -49.086420    -1868.653
  1.00000   -14.641229    -93.767651    -6.382799
-307.907613   -47.770912    -1946.969

 COMB DB-G3-1 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000     8.667205     275.986074     6.734684
71.856041    47.748827    1786.705
  0.25000     8.667205     299.976366     6.734684
71.856041    41.521342    1693.569
  0.50000     8.667205     325.465040     6.734684
71.856041    36.077849    1569.339
  0.75000     8.667205     351.901806     6.734684
71.856041    31.495191    1446.171
  1.00000     8.667205     378.301348     6.734684
71.856041    27.865058    1220.324

 COMB DB-G3-1 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    -8.230489    -173.942472    -0.232897
-462.457212   -24.407994    -749.871788
  0.25000    -8.230489    -148.055121    -0.232897
-462.457212   -27.423754    -815.844718
  0.50000    -8.230489    -122.821013    -0.232897
-462.457212   -30.444765    -881.946954
  0.75000    -8.230489    -99.195564    -0.232897
-462.457212   -33.470885    -948.339322
  1.00000    -8.230489    -77.621521    -0.232897
-462.457212   -36.498485    -1014.754

 COMB DB-G3-2 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    11.093126     417.858076     9.128374
183.619859    62.855828    2757.938
  0.25000    11.093126     446.453357     9.128374
183.619859    54.232019    2553.060
  0.50000    11.093126     476.774367     9.128374
183.619859    46.486676    2329.158
  0.75000    11.093126     508.207457     9.128374
183.619859    39.920536    2089.871
  1.00000    11.093126     540.148437     9.128374
183.619859    34.614701    1829.804

 COMB DB-G3-2 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -10.321731    -222.114680    -0.515328
-564.706481   -34.736283    -1284.586
  0.25000   -10.321731    -190.750668    -0.515328
-564.706481   -38.876165    -1385.746
  0.50000   -10.321731    -160.681800    -0.515328
-564.706481   -43.029039    -1487.052
  0.75000   -10.321731    -132.492639    -0.515328
-564.706481   -47.201870    -1588.679
  1.00000   -10.321731    -106.697472    -0.515328
-564.706481   -51.390570    -1690.337
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1527

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    13.311305     451.544659     7.811642
340.731229    57.041114    3029.106
  0.25000    13.311305     477.767132     7.811642
340.731229    50.119603    2770.717
  0.50000    13.311305     505.566552     7.811642
340.731229    43.970637    2496.064
  0.75000    13.311305     534.384109     7.811642
340.731229    38.884904    2211.714
  1.00000    13.311305     563.718541     7.811642
340.731229    34.973256    1917.062

 COMB DB-G3-3 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -12.526193    -218.431788    -2.272318
-500.090273   -40.907384    -1634.416
  0.25000   -12.526193    -189.623341    -2.272318
-500.090273   -36.367003    -1743.741
  0.50000   -12.526193    -162.050390    -2.272318
-500.090273   -45.139108    -1853.202
  0.75000   -12.526193    -136.197676    -2.272318
-500.090273   -47.787945    -1962.954
  1.00000   -12.526193    -112.536486    -2.272318
-500.090273   -50.758044    -2072.736

 COMB DB-G3-4 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    15.860692     412.997354     6.622002
457.234943    55.758842    2807.061
  0.25000    15.860692     434.859982     6.622002
457.234943    51.852735    2551.188
  0.50000    15.860692     458.037182     6.622002
457.234943    48.633174    2284.004
  0.75000    15.860692     482.063184     6.622002
457.234943    46.315901    2011.015
  1.00000    15.860692     506.521825     6.622002
457.234943    44.987679    1738.178

 COMB DB-G3-4 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -15.205432    -194.710949    -5.408852
-448.706597   -57.254178    -1697.080
  0.25000   -15.205432    -170.690738    -5.408852
-448.706597   -55.441383    -1790.651
  0.50000   -15.205432    -147.702196    -5.408852
-448.706597   -54.152046    -1884.423
  0.75000   -15.205432    -126.147761    -5.408852
-448.706597   -53.502192    -1978.497
  1.00000   -15.205432    -106.420352    -5.408852
-448.706597   -53.430137    -2072.788

 COMB DL-G1-1 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    10.840617     54.720228     0.625695
329.708342    32.000926    565.894524
  0.25000    10.840617     54.727924     0.625695
329.721879    34.777276    515.488314
  0.50000    10.840617     54.736127     0.625695
329.736629    37.953460    465.648075
  0.75000    10.840617     54.744733     0.625695
329.753142    41.610176    431.639708
  1.00000    10.840617     54.753586     0.625695
329.770109    45.830657    407.183021

 COMB DL-G1-1 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -10.591782    -31.482006    -6.597583
-128.932368   -35.022657   -669.260529
  0.25000   -10.591782    -31.474955    -6.597583
-128.913067   -30.087349   -648.179681
  0.50000   -10.591782    -31.466256    -6.597583
-128.894624   -25.729669   -627.462472
  0.75000   -10.591782    -31.462040    -6.597583
-128.877377   -22.142752   -621.887746
  1.00000   -10.591782    -31.456439    -6.597583
-128.861727   -19.399063   -621.598357
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1528

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-2 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    17.583331     128.847576     0.538433
587.168171    40.189827    1126.845
  0.25000    17.583331     128.855270     0.538433
587.181676    45.937904    1009.948
  0.50000    17.583331     128.863471     0.538433
587.196693    52.563586    899.214247
  0.75000    17.583331     128.872074     0.538433
587.212872    60.190853    820.432370
  1.00000    17.583331     128.880925     0.538433
587.229802    68.979771    761.519109

 COMB DL-G1-2 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -17.273543    -55.431715    -12.766818
-186.342082   -64.009104    -1271.729
  0.25000   -17.273543    -55.424667    -12.766818
-186.322846   -54.060709    -1246.222
  0.50000   -17.273543    -55.417971    -12.766818
-186.304395   -45.315586    -1225.611
  0.75000   -17.273543    -55.411759    -12.766818
-186.287174   -38.144572    -1234.506
  1.00000   -17.273543    -55.406160    -12.766818
-186.271548   -32.537710    -1257.098

 COMB DL-G1-3 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    18.463802     246.418060     0.780911
694.953814    40.744886    1826.136
  0.25000    18.463802     246.639632     0.780911
695.342557    45.734603    1613.785
  0.50000    18.463802     246.875800     0.780911
695.774809    51.451033    1427.886
  0.75000    18.463802     247.123536     0.780911
696.240513    58.085663    1291.925
  1.00000    18.463802     247.378426     0.780911
696.727837    65.840240    1193.769

 COMB DL-G1-3 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -17.845904    -78.790505    -11.968075
-179.930652   -64.272785    -1871.419
  0.25000   -17.845904    -78.587550    -11.968075
-179.376879   -55.034028    -1862.896
  0.50000   -17.845904    -78.394735    -11.968075
-178.845702   -46.870303    -1877.512
  0.75000   -17.845904    -78.215845    -11.968075
-178.349919   -40.157843    -1936.870
  1.00000   -17.845904    -78.054611    -11.968075
-177.900050   -34.981421    -2033.308

 COMB DL-G1-4 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    19.601070     369.450936     4.963727
647.380562    57.111585    2425.186
  0.25000    19.601070     380.737756     4.963727
660.097014    58.253346    2173.278
  0.50000    19.601070     392.744676     4.963727
678.125226    60.308452    1952.323
  0.75000    19.601070     405.326401     4.963727
697.657284    63.433007    1776.341
  1.00000    19.601070     418.238503     4.963727
718.090510    67.835396    1633.469

 COMB DL-G1-4 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -18.628795    -149.971353    -10.328793
-397.973964   -68.998058    -2168.602
  0.25000   -18.628795    -139.859872    -10.328793
-373.059913   -63.508994    -2196.209
  0.50000   -18.628795    -130.239714    -10.328793
-349.154158   -59.103903    -2267.367
  0.75000   -18.628795    -121.304715    -10.328793
-326.836615   -56.172353    -2400.168
  1.00000   -18.628795    -113.251441    -10.328793
-306.647303   -54.842908    -2583.290
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1529

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-1 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000     6.388515     104.202777     0.196936
270.913779    6.297605    723.067599
  0.25000     6.388515     104.279717     0.196936
271.048837    8.055170    632.713721
  0.50000     6.388515     104.361726     0.196936
271.199006   11.018755    553.374888
  0.75000     6.388515     104.447752     0.196936
271.360795   14.564333    494.688779
  1.00000     6.388515     104.536873     0.196936
271.530095   18.777634    450.621647

 COMB DL-G2-1 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    -6.275085    -28.944643    -5.735528
-46.110573   -27.524388   -733.268115
  0.25000    -6.275085    -28.874164    -5.735528
-45.918216   -22.093021   -734.832810
  0.50000    -6.275085    -28.807206    -5.735528
-45.733711   -18.075053   -745.928237
  0.75000    -6.275085    -28.745803    -5.735528
-45.561499   -15.083343   -774.412006
  1.00000    -6.275085    -28.689093    -5.735528
-45.405235   -12.856831   -816.684088

 COMB DL-G2-2 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000     8.641538     270.170195     2.009220
422.980555    17.788140    1694.522
  0.25000     8.641538     270.177890     2.009220
422.994083    18.367878    1471.498
  0.50000     8.641538     270.186093     2.009220
423.009124    19.425944    1291.543
  0.75000     8.641538     270.194698     2.009220
423.025329    21.108903    1164.678
  1.00000     8.641538     270.203550     2.009220
423.042286    23.596053    1081.271

 COMB DL-G2-2 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    -8.030039    -66.277589    -5.374334
-94.812095   -34.151333    -1530.225
  0.25000    -8.030039    -66.270538    -5.374334
-94.792801   -30.512188    -1555.769
  0.50000    -8.030039    -66.263840    -5.374334
-94.774365   -27.573622    -1616.854
  0.75000    -8.030039    -66.257625    -5.374334
-94.757125   -25.579199    -1717.320
  1.00000    -8.030039    -66.252024    -5.374334
-94.741480   -24.522530    -1861.554

 COMB DL-G2-3 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    16.012199     293.108903     1.965994
645.507411    35.575061    1998.250
  0.25000    16.012199     293.156829     1.965994
645.519587    39.017904    1751.318
  0.50000    16.012199     293.123211     1.965994
645.533124    43.160425    1543.780
  0.75000    16.012199     293.130956     1.965994
645.547708    48.227771    1397.734
  1.00000    16.012199     293.138923     1.965994
645.562970    54.441891    1297.944

 COMB DL-G2-3 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -15.322497    -83.693488    -10.714117
-176.094004   -59.831873    -1998.880
  0.25000   -15.322497    -83.687135    -10.714117
-176.076640   -52.150356    -2006.117
  0.50000   -15.322497    -83.681106    -10.714117
-176.060048   -45.525252    -2045.756
  0.75000   -15.322497    -83.675513    -10.714117
-176.044531   -40.280465    -2134.612
  1.00000   -15.322497    -83.670472    -10.714117
-176.030451   -36.500229    -2268.727
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         1530

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-4 -------------------- MAX

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000    19.680171     430.675448     6.921645
595.715540    58.910037    2692.993
  0.25000    19.680171     447.951861     6.921645
595.723277    58.142792    2426.573
  0.50000    19.680171     466.291879     6.921645
595.787145    58.393618    2190.261
  0.75000    19.680171     485.454933     6.921645
607.186869    59.793969    1990.684
  1.00000    19.680171     505.054202     6.921645
628.306517    62.584117    1818.295

 COMB DL-G2-4 -------------------- MIN

 REL DIST            P            V2            V3
        T            M2           M3
  0.00000   -18.637007    -181.195577    -9.200381
-475.757376   -69.974628    -2308.749
  0.25000   -18.637007    -166.231343    -9.200381
-447.712180   -66.451976    -2359.886
  0.50000   -18.637007    -151.960206    -9.200381
-418.909848   -63.974520    -2464.572
  0.75000   -18.637007    -138.709517    -9.200381
-395.509659   -62.891472    -2637.993
  1.00000   -18.637007    -126.746267    -9.200381
-388.774372   -63.355532    -2869.151
```

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.115919	298.142199	8.802514
122.615043	49.725679	1640.804	
0.25000	11.115919	320.513378	8.802514
122.615043	43.646792	1527.660	
0.50000	11.115919	344.269289	8.802514
122.615043	38.167903	1418.703	
0.75000	11.115919	368.915922	8.802514
122.615043	33.668030	1298.977	
1.00000	11.115919	393.953247	8.802514
122.615043	30.314244	1172.088	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.398313	-154.319837	-0.583434
-533.091995	-35.151505	-996.124445	
0.25000	-10.398313	-136.192509	-0.583434
-537.482445	-39.744635	-1072.311	
0.50000	-10.398313	-118.803747	-0.583434
-541.872895	-44.676391	-1191.116	
0.75000	-10.398313	-102.614724	-0.583434
-546.263345	-50.078474	-1350.535	
1.00000	-10.398313	-88.002332	-0.583434
-550.653795	-56.081177	-1540.946	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.030278	467.896219	12.588903
244.191703	69.528710	2595.316	
0.25000	14.030278	493.623915	12.588903
244.191703	60.806706	2365.569	
0.50000	14.030278	520.967309	12.588903
244.191703	52.923900	2166.913	
0.75000	14.030278	549.370587	12.588903
244.191703	46.400670	1985.639	
1.00000	14.030278	578.271383	12.588903
244.191703	41.412443	1819.600	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.797868	-208.878876	-0.976789
-647.723408	-48.693865	-1737.683	
0.25000	-12.797868	-187.695723	-0.976789
-648.209136	-54.988909	-1844.528	
0.50000	-12.797868	-167.401742	-0.976789
-648.694865	-61.818294	-2020.626	
0.75000	-12.797868	-148.520425	-0.976789
-649.180594	-69.446688	-2260.292	
1.00000	-12.797868	-131.469225	-0.976789
-649.666323	-78.034805	-2553.203	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1531

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.702647	523.885032	10.633357
417.026677	63.838185	3018.496	
0.25000	16.702647	547.450269	10.633357
417.026677	57.067293	2725.658	
0.50000	16.702647	572.496429	10.633357
417.026677	51.284543	2472.837	
0.75000	16.702647	598.517304	10.633357
417.026677	46.882977	2251.906	
1.00000	16.702647	624.998863	10.633357
417.026677	44.099273	2057.998	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.431317	-213.930430	-3.330439
-589.935615	-56.720929	-2203.646	
0.25000	-15.431317	-194.491846	-3.330439
-589.851042	-59.578259	-2304.570	
0.50000	-15.431317	-175.868816	-3.330439
-589.766469	-63.321259	-2478.950	
0.75000	-15.431317	-158.545199	-3.330439
-589.681897	-68.235998	-2727.235	
1.00000	-15.431317	-142.899719	-3.330439
-589.597324	-74.422601	-3043.727	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.329022	486.455928	8.996036
569.825080	64.737371	2939.112	
0.25000	20.329022	506.099543	8.996036
569.825080	61.819770	2649.386	
0.50000	20.329022	526.979289	8.996036
569.825080	59.997645	2394.997	
0.75000	20.329022	548.670934	8.996036
569.825080	59.660312	2178.993	
1.00000	20.329022	570.746779	8.996036
569.825080	61.091032	1992.501	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.197539	-198.093935	-8.161640
-554.361633	-72.779259	-2366.493	
0.25000	-19.197539	-181.888320	-8.161640
-554.273513	-71.006988	-2441.838	
0.50000	-19.197539	-166.362720	-8.161640
-554.185394	-70.358512	-2580.086	
0.75000	-19.197539	-151.920459	-8.161640
-554.097274	-71.194188	-2791.114	
1.00000	-19.197539	-138.877185	-8.161640
-554.009154	-73.644321	-3063.997	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.860692	451.544659	9.128374
572.423023	62.855628	3029.106	
0.25000	15.860692	477.767132	9.128374
572.442206	54.232019	2770.717	
0.50000	15.860692	505.566552	9.128374
572.469396	48.633174	2496.064	
0.75000	15.860692	534.384109	9.128374
572.499750	46.315901	2211.714	
1.00000	15.860692	563.718541	9.128374
599.482115	45.598359	1917.062	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.205432	-222.114680	-9.199370
-564.706481	-58.701053	-1697.080	
0.25000	-15.205432	-190.750668	-9.199370
-564.706481	-55.441383	-1790.651	
0.50000	-15.205432	-162.050390	-9.199370
-564.706481	-54.152046	-1884.423	
0.75000	-15.205432	-136.197676	-9.199370
-564.706481	-53.502192	-1978.497	
1.00000	-15.205432	-112.536486	-9.199370
-564.706481	-53.430137	-2072.788	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1532

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.329022	523.885032	12.588903
694.953814	69.528710	3018.496	
0.25000	20.329022	547.450269	12.588903
695.342557	61.819770	2725.658	
0.50000	20.329022	572.496429	12.588903
695.774809	60.308452	2472.837	
0.75000	20.329022	598.517304	12.588903
697.657284	63.433007	2251.906	
1.00000	20.329022	624.998863	12.588903
718.090510	68.979771	2057.998	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.197539	-213.930430	-12.766818
-647.723408	-72.779259	-2366.493	
0.25000	-19.197539	-194.491846	-12.766818
-648.209136	-71.006988	-2441.838	
0.50000	-19.197539	-175.868816	-12.766818
-648.694865	-70.358512	-2580.086	
0.75000	-19.197539	-158.545199	-12.766818
-649.180594	-71.194188	-2791.114	
1.00000	-19.197539	-142.899719	-12.766818
-649.666323	-78.034805	-3063.997	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.329022	523.885032	12.588903
694.953814	69.528710	3029.106	
0.25000	20.329022	547.450269	12.588903
695.342557	61.819770	2770.717	
0.50000	20.329022	572.496429	12.588903
695.774809	60.308452	2496.064	
0.75000	20.329022	598.517304	12.588903
697.657284	63.433007	2251.906	
1.00000	20.329022	624.998863	12.588903
718.090510	68.979771	2057.998	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.197539	-222.114680	-12.766818
-647.723408	-72.779259	-2366.493	
0.25000	-19.197539	-194.491846	-12.766818
-648.209136	-71.006988	-2441.838	
0.50000	-19.197539	-175.868816	-12.766818
-648.694865	-70.358512	-2580.086	
0.75000	-19.197539	-158.545199	-12.766818
-649.180594	-71.194188	-2791.114	
1.00000	-19.197539	-142.899719	-12.766818
-649.666323	-78.034805	-3063.997	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1533

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 125 ========== LENGTH = 4.928108

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.945442	39.077906	1.780256
268.391069	30.564271	202.324880	
0.25000	7.945442	39.090789	1.780256
268.412848	30.480649	204.766249	
0.50000	7.945442	39.104218	1.780256
268.446491	30.517229	208.343958	
0.75000	7.945442	39.117977	1.780256
268.481319	30.685103	211.973091	
1.00000	7.945442	39.133301	1.780256
268.521266	30.962710	215.627850	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.151740	-23.128178	-4.253238
-128.885704	-15.867469	-443.018403	
0.25000	-8.151740	-23.113207	-4.253238
-128.843684	-12.428317	-420.289579	
0.50000	-8.151740	-23.100433	-4.253238
-128.806989	-9.809465	-398.226225	
0.75000	-8.151740	-23.088472	-4.253238
-128.771992	-8.220857	-376.603090	
1.00000	-8.151740	-23.077596	-4.253238
-128.740556	-7.702258	-355.813156	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.074886	95.047076	1.213756
481.843416	44.651987	397.472597	
0.25000	13.074886	95.059955	1.213756
481.864654	41.057475	384.133308	
0.50000	13.074886	95.073380	1.213756
481.898252	50.731680	390.467900	
0.75000	13.074886	95.087135	1.213756
481.933036	54.155221	397.603671	
1.00000	13.074886	95.102452	1.213756
481.972927	58.438858	405.626523	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.404512	-38.468331	-9.647685
-204.016137	-29.104004	-903.255139	
0.25000	-13.404512	-38.453370	-9.647685
-203.974174	-19.117245	-874.705714	
0.50000	-13.404512	-38.440601	-9.647685
-203.937524	-11.262311	-847.402391	
0.75000	-13.404512	-38.428644	-9.647685
-203.902570	-8.020624	-820.916138	
1.00000	-13.404512	-38.417772	-9.647685
-203.871185	-5.971912	-795.557412	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.010317	189.171677	0.979901
605.097413	40.944316	717.008469	
0.25000	14.010317	189.183269	0.979901
605.116649	43.174581	596.748020	
0.50000	14.010317	189.195353	0.979901
605.146897	45.736395	549.854786	
0.75000	14.010317	189.207733	0.979901
605.178213	48.756483	565.538975	
1.00000	14.010317	189.221520	0.979901
605.214127	52.706784	581.249109	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.172298	-52.236814	-9.306759
-221.997431	-29.725928	-1426.317	
0.25000	-14.172298	-52.223346	-9.306759
-221.959651	-20.472004	-1420.140	
0.50000	-14.172298	-52.211854	-9.306759
-221.926657	-12.805940	-1415.404	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1534

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-14.172298	-52.201091	-9.306759
-221.895188	-8.415286	-1411.334	
1.00000	-14.172298	-52.191306	-9.306759
-221.866930	-6.315832	-1408.235	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.340593	336.211223	4.322580
590.260691	42.980606	1258.244	
0.25000	15.340593	348.350244	4.322580
590.260691	41.801419	1053.899	
0.50000	15.340593	361.028294	4.322580
595.710104	41.658888	902.390935	
0.75000	15.340593	374.030636	4.322580
617.941858	44.278171	797.912827	
1.00000	15.340593	388.189174	4.322580
647.979310	47.674143	707.362599	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.270636	-109.039977	-7.898189
-398.560188	-41.638295	-1801.823	
0.25000	-15.270636	-95.428307	-7.898189
-368.204615	-35.101634	-1843.274	
0.50000	-15.270636	-83.502489	-7.898189
-345.602881	-29.885848	-1885.907	
0.75000	-15.270636	-72.357510	-7.898189
-321.843626	-27.647771	-1929.097	
1.00000	-15.270636	-62.514293	-7.898189
-315.553901	-27.922884	-1973.231	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.969954	82.482659	0.138863
234.625704	27.127474	277.127471	
0.25000	4.969954	82.624346	0.138863
234.860813	13.655185	220.316830	
0.50000	4.969954	82.772031	0.138863
235.230512	17.134419	219.709287	
0.75000	4.969954	82.923346	0.138863
235.613258	20.698612	225.568807	
1.00000	4.969954	83.078512	0.138863
236.052211	24.864679	231.392243	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.045458	-19.081981	-5.379164
-72.603463	-13.175917	-595.415108	
0.25000	-5.045458	-18.917382	-5.379164
-72.141712	-6.724453	-597.949280	
0.50000	-5.045458	-18.776913	-5.379164
-71.738443	-1.535649	-600.937536	
0.75000	-5.045458	-18.645975	-5.379164
-71.353833	1.665301	-604.271598	
1.00000	-5.045458	-18.525773	-5.379164
-71.008453	-1.596783	-607.973884	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.063702	227.846039	1.611111
409.158791	12.096074	811.104653	
0.25000	7.063702	227.858920	1.611111
409.180165	13.721263	607.112230	
0.50000	7.063702	227.872346	1.611111
409.213774	16.207921	496.946788	
0.75000	7.063702	227.886101	1.611111
409.248569	19.095041	472.863808	
1.00000	7.063702	227.901420	1.611111
409.288474	22.977572	471.878611	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.921287	-38.298009	-5.100161
-135.814757	-20.122504	-1310.743	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1535

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-6.921287	-38.283045	-5.100161
-135.772780	-15.128482	-1346.548	
0.50000	-6.921287	-38.270275	-5.100161
-135.736119	-11.248848	-1382.983	
0.75000	-6.921287	-38.258317	-5.100161
-135.701155	-10.578811	-1419.560	
1.00000	-6.921287	-38.247444	-5.100161
-135.669757	-11.774714	-1456.309	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.445506	240.844482	1.527878
583.833249	32.773900	892.663440	
0.25000	12.445506	240.856074	1.527878
583.852485	35.107105	712.324175	
0.50000	12.445506	240.868158	1.527878
583.882733	38.249021	616.749151	
0.75000	12.445506	240.880538	1.527878
583.914048	41.777976	598.389666	
1.00000	12.445506	240.894325	1.527878
583.949963	46.105475	600.925606	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.479952	-51.391081	-8.622080
-218.089296	-30.791866	-1557.743	
0.25000	-12.479952	-51.377614	-8.622080
-218.051516	-21.935048	-1574.127	
0.50000	-12.479952	-51.366121	-8.622080
-218.018522	-14.125730	-1591.551	
0.75000	-12.479952	-51.355358	-8.622080
-217.987054	-12.072703	-1609.619	
1.00000	-12.479952	-51.345573	-8.622080
-217.958795	-13.233690	-1628.359	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.728512	411.691323	5.183998
563.243302	41.136013	1505.549	
0.25000	15.728512	430.509303	5.183998
563.243302	38.753761	1262.805	
0.50000	15.728512	450.215345	5.183998
563.243302	37.205655	1063.094	
0.75000	15.728512	470.451811	5.183998
563.243302	38.240633	899.547292	
1.00000	15.728512	491.819659	5.183998
566.946481	41.928500	751.138354	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.550996	-132.025310	-7.234243
-449.738119	-46.391624	-1946.883	
0.25000	-15.550996	-111.946598	-7.234243
-424.560488	-40.348965	-2019.696	
0.50000	-15.550996	-93.686264	-7.234243
-398.323334	-35.210136	-2093.390	
0.75000	-15.550996	-76.666919	-7.234243
-398.323334	-34.801422	-2167.884	
1.00000	-15.550996	-62.896006	-7.234243
-398.323334	-36.834154	-2242.960	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.346691	339.373502	6.623174
166.478592	25.963816	1221.901	
0.25000	9.346691	363.898610	6.623174
166.478592	19.654537	1046.140	
0.50000	9.346691	389.726951	6.623174
166.478592	14.251935	840.132133	
0.75000	9.346691	416.314391	6.623174
166.478592	9.903421	604.836882	
1.00000	9.346691	442.723069	6.623174
166.478592	6.899966	386.783496	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1536

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.097312	-110.270258	-0.439744
-473.379259	-34.865887	-1015.410	
0.25000	-9.097312	-86.447005	-0.439744
-473.379259	-36.817532	-1115.761	
0.50000	-9.097312	-63.208376	-0.439744
-473.379259	-38.887424	-1216.572	
0.75000	-9.097312	-41.671869	-0.439744
-473.379259	-40.981806	-1317.544	
1.00000	-9.097312	-27.455356	-0.439744
-473.379259	-43.116188	-1418.670	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.001180	502.775086	10.176167
302.563230	32.040990	1831.255	
0.25000	12.001180	531.923205	10.176167
302.563230	24.182342	1520.217	
0.50000	12.001180	562.557124	10.176167
302.563230	17.819587	1194.355	
0.75000	12.001180	594.071574	10.176167
302.563230	12.560375	884.497735	
1.00000	12.001180	625.935256	10.176167
302.563230	9.893466	617.774504	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.506423	-147.687602	-0.400662
-560.634460	-49.100161	-1691.109	
0.25000	-11.506423	-118.736638	-0.400662
-560.634460	-51.955143	-1831.292	
0.50000	-11.506423	-90.935149	-0.400662
-560.634460	-55.775510	-1971.961	
0.75000	-11.506423	-65.132146	-0.400662
-560.634460	-60.168926	-2112.922	
1.00000	-11.506423	-46.948179	-0.400662
-560.634460	-65.300071	-2253.905	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.074446	533.462638	8.035095
456.051201	31.879989	1917.695	
0.25000	14.074446	560.184239	8.035095
456.051201	25.584076	1561.149	
0.50000	14.074446	588.262091	8.035095
456.051201	20.714996	1259.838	
0.75000	14.074446	617.145159	8.035095
456.051201	17.178159	994.747875	
1.00000	14.074446	646.400544	8.035095
456.051201	16.689505	762.139504	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.636128	-151.480403	-2.833945
-545.379539	-48.927386	-2047.295	
0.25000	-13.636128	-124.880395	-2.833945
-545.379539	-48.696815	-2208.354	
0.50000	-13.636128	-99.376389	-2.833945
-545.379539	-48.893694	-2344.122	
0.75000	-13.636128	-75.705832	-2.833945
-545.379539	-50.175455	-2480.166	
1.00000	-13.636128	-58.912472	-2.833945
-545.379539	-53.481533	-2616.299	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.520004	480.741306	6.754014
561.628138	42.068237	1738.472	
0.25000	16.520004	503.019813	6.754014
561.628138	38.641075	1446.365	
0.50000	16.520004	526.428869	6.754014
561.628138	36.436508	1195.181	
0.75000	16.520004	550.509188	6.754014
561.628138	35.364255	977.850400	
1.00000	16.520004	574.901653	6.754014
561.628138	37.201068	787.476571	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1537

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.282877	-139.534994	-6.558025
-526.779484	-51.724046	-2072.989	
0.25000	-16.282877	-117.355894	-6.558025
-526.779484	-46.603091	-2175.377	
0.50000	-16.282877	-96.091963	-6.558025
-526.779484	-42.453959	-2278.762	
0.75000	-16.282877	-76.356672	-6.558025
-526.779484	-43.546563	-2382.869	
1.00000	-16.282877	-62.351504	-6.558025
-526.779484	-46.123460	-2487.246	

```
  COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.916179   51.384555    1.537230
354.438068   45.110652  406.179009
 0.25000    10.916179   51.392691    1.537230
354.452344   46.016776  391.204857
 0.50000    10.916179   51.401328    1.537230
354.468088   47.397868  383.242481
 0.75000    10.916179   51.410304    1.537230
354.484951   49.296531  382.532831
 1.00000    10.916179   51.419480    1.537230
354.502582   51.624935  388.581021

  COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.815506  -44.202146   -4.592246
-204.851839  -18.933569 -621.057627
 0.25000   -10.815506  -44.195570   -4.592246
-204.832545  -15.926180 -602.270784
 0.50000   -10.815506  -44.189370   -4.592246
-204.814206  -13.629441 -590.470899
 0.75000   -10.815506  -44.183708   -4.592246
-204.797180  -12.224053 -586.029707
 1.00000   -10.815506  -44.178669   -4.592246
-204.781769  -11.656172 -592.496422

  COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    17.590025  122.040915    1.175160
629.085802   67.626916  759.709020
 0.25000    17.590025  122.049050    1.175160
629.100047   74.259237  720.230339
 0.50000    17.590025  122.057685    1.175160
629.115758   82.327017  704.293943
 0.75000    17.590025  122.066659    1.175160
629.132587   92.390463  705.504745
 1.00000    17.590025  122.075833    1.175160
629.150182  103.590423  721.761580

  COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -17.623278  -73.970578  -12.554479
-315.402975  -31.781148  -1256.466
 0.25000   -17.623278  -73.964006  -12.554479
-315.383710  -23.353345  -1251.925
 0.50000   -17.623278  -73.957810  -12.554479
-315.365399  -16.646361  -1270.510
 0.75000   -17.623278  -73.952151  -12.554479
-315.348397  -14.177743  -1307.443
 1.00000   -17.623278  -73.947115  -12.554479
-315.333009  -12.696241  -1368.323

  COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    18.183238  254.011410    1.169884
757.760804   63.943820  1191.671
 0.25000    18.183238  254.245673    1.169884
758.170824   69.471167  1093.800
 0.50000    18.183238  254.494369    1.169884
758.623056   76.483803  1037.123
 0.75000    18.183238  254.752802    1.169884
759.107495   85.103369  1036.221
 1.00000    18.183238  255.016999    1.169884
759.613969   95.735412  1062.389
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<               MOVING          LOAD            >
                                1538

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -17.989561  -96.331803  -11.950657
-330.909732  -34.196257  -2032.948
 0.25000   -17.989561  -96.142561  -11.950657
-330.355110  -25.746968  -2117.133
 0.50000   -17.989561  -95.964134  -11.950657
-329.827941  -19.100680  -2239.210
 0.75000   -17.989561  -95.801195  -11.950657
-329.338487  -15.860030  -2396.149
 1.00000   -17.989561  -95.656182  -11.950657
-328.895464  -14.162515  -2591.672

  COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    19.859610  417.633238    5.558721
732.874410   65.468327  1631.897
 0.25000    19.859610  429.667215    5.558721
742.759094   67.905338  1498.864
 0.50000    19.859610  442.421493    5.558721
761.835070   71.213224  1401.991
 0.75000    19.859610  455.653888    5.558721
782.410021   78.347384  1357.654
 1.00000    19.859610  469.158339    5.558721
803.932758   87.208919  1342.207

  COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -19.348402  -149.004647  -10.188227
-516.326228  -53.107807  -2582.777
 0.25000   -19.348402  -139.667663  -10.188227
-491.397176  -49.367450  -2788.378
 0.50000   -19.348402  -130.876431  -10.188227
-467.588660  -47.148938  -3044.756
 0.75000   -19.348402  -122.809203  -10.188227
-445.460659  -45.533593  -3349.137
 1.00000   -19.348402  -115.665734  -10.188227
-425.494184  -51.933268  -3708.378

  COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    6.239111  103.526747    0.157152
292.057093   18.183617  449.773975
 0.25000    6.239111  103.608092    0.157152
292.199539   24.109471  408.010765
 0.50000    6.239111  103.694450    0.157152
292.356645   30.964998  393.576180
 0.75000    6.239111  103.784188    0.157152
292.524939   39.362768  395.561864
 1.00000    6.239111  103.875929    0.157152
292.700886   48.317375  408.345289

  COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.332235  -33.215956   -8.055429
-100.811644  -12.660275 -816.777164
 0.25000   -6.332235  -33.150237   -8.055429
-100.618995   -7.563725 -859.193609
 0.50000   -6.332235  -33.088274   -8.055429
-100.435882   -3.387533 -920.398113
 0.75000   -6.332235  -33.031689   -8.055429
-100.265871   -3.152011 -996.795989
 1.00000   -6.332235  -32.981330   -8.055429
-100.111986   -3.229889  -1086.268

  COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.442129  295.605645    2.176173
472.323082   22.114981  1080.105
 0.25000    8.442129  295.613781    2.176173
472.337350   25.621090  952.183264
 0.50000    8.442129  295.622418    2.176173
472.353086   30.975358  874.807437
 0.75000    8.442129  295.631393    2.176173
472.369941   37.986412  866.083432
 1.00000    8.442129  295.640569    2.176173
472.387562   45.876010  892.498974
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<               MOVING          LOAD            >
                                1539

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.153934  -66.789737   -7.381189
-162.625306  -24.070239  -1861.769
 0.25000   -8.153934  -66.783162   -7.381189
-162.606019  -20.292628  -2024.193
 0.50000   -8.153934  -66.776963   -7.381189
-162.587688  -18.161842  -2227.017
 0.75000   -8.153934  -66.771302   -7.381189
-162.570668  -19.179769  -2466.439
 1.00000   -8.153934  -66.766264   -7.381189
-162.555262  -21.150674  -2740.543

  COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.857190  312.908432    2.058755
708.744661   52.516419  1296.143
 0.25000   15.857190  312.915754    2.058755
708.757502   58.211703  1167.839
 0.50000   15.857190  312.923528    2.058755
708.771664   66.086531  1091.559
 0.75000   15.857190  312.931605    2.058755
708.786833   76.133102  1083.821
 1.00000   15.857190  312.939864    2.058755
708.802692   87.957973  1114.001

  COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -15.608453  -93.563202  -11.917965
-296.725194  -35.763515  -2268.515
 0.25000  -15.608453  -93.557284  -11.917965
-296.707836  -28.433650  -2402.863
 0.50000  -15.608453  -93.551705  -11.917965
-296.691338  -23.141578  -2588.220
 0.75000  -15.608453  -93.546610  -11.917965
-296.676020  -21.951224  -2801.057
 1.00000  -15.608453  -93.542076  -11.917965
-296.662155  -23.597561  -3051.300

  COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   20.156901  504.630673    6.576160
704.023511   60.006793  1817.275
 0.25000   20.156901  523.285342    6.576160
704.031377   61.112383  1666.050
 0.50000   20.156901  543.005453    6.576160
704.485367   64.480318  1548.166
 0.75000   20.156901  563.423368    6.576160
708.221488   70.614440  1479.725
 1.00000   20.156901  584.194487    6.576160
731.307385   80.123306  1436.697

  COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -19.601453  -166.614073  -10.041815
-585.789575  -62.086418  -2868.527
 0.25000  -19.601453  -153.049414  -10.041815
-556.853895  -58.585654  -3146.886
 0.50000  -19.601453  -140.232732  -10.041815
-527.551327  -57.101253  -3489.426
 0.75000  -19.601453  -128.499673  -10.041815
-516.255382  -59.520926  -3877.625
 1.00000  -19.601453  -118.086261  -10.041815
-510.506410  -64.974880  -4323.796

  COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   12.138043  399.534906    7.773654
237.761519   28.681067  1173.111
 0.25000   12.138043  424.362334    7.773654
237.761519   23.482144  1076.999
 0.50000   12.138043  450.447109    7.773654
237.761519   19.026582  976.951937
 0.75000   12.138043  477.342854    7.773654
237.761519   15.793671  876.620745
 1.00000   12.138043  504.567616    7.773654
237.761519   13.871370  781.753481
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<               MOVING          LOAD            >
                                1540

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -11.632458  -114.578787   -0.512184
-578.667198  -54.987317  -2582.777
 0.25000  -11.632458   -98.737578   -0.512184
-583.057691  -59.001833  -1815.020
 0.50000  -11.632458   -83.704391   -0.512184
-587.448184  -63.605612  -2125.725
 0.75000  -11.632458   -69.910789   -0.512184
-591.838677  -68.882288  -2574.154
 1.00000  -11.632458   -57.744328   -0.512184
-596.229082  -74.876642  -2866.243

  COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.413808  603.345356   12.398177
383.881454   39.100496  1820.519
 0.25000   15.413808  631.753234   12.398177
383.881454   32.139763  1644.486
 0.50000   15.413808  661.620528   12.398177
383.881454   27.189993  1483.947
 0.75000   15.413808  692.445944   12.398177
383.881454   23.789550  1357.469
 1.00000   15.413808  723.685410   12.398177
383.881454   21.781953  1260.420

  COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -14.508290  -160.051834   -0.739505
-683.661176  -76.565011  -2552.256
 0.25000  -14.508290  -141.371195   -0.739505
-684.146910  -83.555686  -2952.642
 0.50000  -14.508290  -123.665980   -0.739505
-684.632643  -92.220950  -3408.689
 0.75000  -14.508290  -107.423707   -0.739505
-685.118377  -102.273835  -3928.026
 1.00000  -14.508290   -93.073222   -0.739505
-685.604101  -113.572141  -4508.157

  COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   17.605428  648.945671    9.968877
566.007923   41.346101  2058.214
 0.25000   17.605428  674.947459    9.968877
566.007923   37.182671  1855.775
 0.50000   17.605428  702.287168    9.968877
566.007923   35.288198  1690.155
 0.75000   17.605428  730.507360    9.968877
566.007923   35.311910  1579.571
 1.00000   17.605428  759.109465    9.968877
566.007923   37.149253  1502.393

  COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -16.778252  -172.565038   -4.291642
-673.161940  -73.022696  -3043.082
 0.25000  -16.778252  -155.401786   -4.291642
-673.077367  -75.684388  -3463.601
 0.50000  -16.778252  -139.137597   -4.291642
-672.992793  -80.073128  -3949.796
 0.75000  -16.778252  -124.217577   -4.291642
-672.908220  -86.335100  -4503.551
 1.00000  -16.778252  -111.034066   -4.291642
-672.823648  -94.699298  -5129.925

  COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.060852  587.229470    8.380607
708.766015   58.274092  1992.023
 0.25000   21.060852  608.904428    8.380607
708.766015   58.590382  1810.005
 0.50000   21.060852  631.694741    8.380607
708.766015   61.578114  1666.353
 0.75000   21.060852  655.219532    8.380607
708.766015   67.487594  1575.323
 1.00000   21.060852  679.062529    8.380607
708.766015   75.441482  1518.005
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<               MOVING          LOAD            >
                                1541

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -20.451063  -170.267651   -9.740902
-672.144776  -72.214687  -3063.209
 0.25000  -20.451063  -155.958559   -9.740902
-672.056656  -70.124217  -3410.235
 0.50000  -20.451063  -142.398864   -9.740902
-671.968535  -70.285827  -3819.075
 0.75000  -20.451063  -129.959276   -9.740902
-671.880415  -74.927894  -4292.420
 1.00000  -20.451063  -118.967911   -9.740902
-671.792296  -81.810715  -4832.494

  COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   16.520004  533.462638   10.176167
605.097413   44.651987  1917.695
 0.25000   16.520004  560.184239   10.176167
605.116649   47.578775  1565.149
 0.50000   16.520004  588.262091   10.176167
605.146897   50.731680  1259.838
 0.75000   16.520004  617.145159   10.176167
617.941858   54.155221  994.747875
 1.00000   16.520004  646.400544   10.176167
647.979310   58.438858  787.476571

  COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -16.282877  -151.480403   -9.647685
-560.634460  -51.724046  -2073.295
 0.25000  -16.282877  -124.880395   -9.647685
-560.634460  -51.955143  -2208.354
 0.50000  -16.282877   -99.376389   -9.647685
-560.634460  -55.775510  -2344.122
 0.75000  -16.282877   -76.666819   -9.647685
-560.634460  -60.168926  -2480.166
 1.00000  -16.282877   -62.896006   -9.647685
-560.634460  -65.300071  -2616.299

  COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.060852  648.945671   12.398177
757.760804   67.626916  2058.214
 0.25000   21.060852  674.947459   12.398177
758.170824   74.259237  1855.775
 0.50000   21.060852  702.287168   12.398177
761.835070   82.327017  1690.155
 0.75000   21.060852  730.507360   12.398177
782.410021   92.390463  1579.571
 1.00000   21.060852  759.109465   12.398177
803.932758  103.590423  1518.005

  COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -20.451063  -172.565238   -12.554479
-683.661176  -76.565011  -3063.209
 0.25000  -20.451063  -155.958559   -12.554479
-684.146910  -83.555686  -3463.601
 0.50000  -20.451063  -142.398864   -12.554479
-684.632643  -92.220950  -3949.796
 0.75000  -20.451063  -129.959276   -12.554479
-685.118377  -102.273835  -4503.551
 1.00000  -20.451063  -118.967911   -12.554479
-685.604101  -113.572141  -5129.925

  COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.060852  648.945671   12.398177
757.760804   67.626916  2058.214
 0.25000   21.060852  674.947459   12.398177
758.170824   74.259237  1855.775
 0.50000   21.060852  702.287168   12.398177
761.835070   82.327017  1690.155
 0.75000   21.060852  730.507360   12.398177
782.410021   92.390463  1579.571
 1.00000   21.060852  759.109465   12.398177
803.932758  103.590423  1518.005
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<               MOVING          LOAD            >
                                1542

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -20.451063  -172.565238   -12.554479
-683.661176  -76.565011  -3063.209
 0.25000  -20.451063  -155.958559   -12.554479
-684.146910  -83.555686  -3463.601
 0.50000  -20.451063  -142.398864   -12.554479
-684.632643  -92.220950  -3949.796
 0.75000  -20.451063  -129.959276   -12.554479
-685.118377  -102.273835  -4503.551
 1.00000  -20.451063  -118.967911   -12.554479
-685.604101  -113.572141  -5129.925

  COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   21.060852  648.945671   12.398177
757.760804   67.626916  2058.214
 0.25000   21.060852  674.947459   12.398177
758.170824   74.259237  1855.775
 0.50000   21.060852  702.287168   12.398177
761.835070   82.327017  1690.155
 0.75000   21.060852  730.507360   12.398177
782.410021   92.390463  1579.571
 1.00000   21.060852  759.109465   12.398177
803.932758  103.590423  1518.005

  COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -20.451063  -172.565038   -12.554479
-683.661176  -76.565011  -3063.209
 0.25000  -20.451063  -155.958559   -12.554479
-684.146910  -83.555686  -3463.601
 0.50000  -20.451063  -142.398864   -12.554479
-684.632643  -92.220950  -3949.796
 0.75000  -20.451063  -129.959276   -12.554479
-685.118377  -102.273835  -4503.551
 1.00000  -20.451063  -118.967911   -12.554479
-685.604101  -113.572141  -5129.925

 ELEM      126 ================== LENGTH
=    3.449691

  COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.038671   30.196415    2.634865
247.265380   30.584628  215.555656
 0.25000    8.038671   30.206208    2.634865
247.286733   29.708616  215.912508
 0.50000    8.038671   30.216097    2.634865
247.316541   28.972237  216.315711
 0.75000    8.038671   30.226027    2.634865
247.342890   28.291376  216.762298
 1.00000    8.038671   30.235793    2.634865
247.369353   27.715841  217.208897

  COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.323657  -41.930776   -3.165120
-196.068901   -7.543913 -355.212818
 0.25000   -8.323657  -41.921266   -3.165120
-196.040289   -7.076498 -325.040124
 0.50000   -8.323657  -41.912159   -3.165120
-196.012868   -6.757207 -295.679419
 0.75000   -8.323657  -41.905308   -3.165120
-195.986852   -6.846319 -267.446792
 1.00000   -8.323657  -41.900232   -3.165120
-195.963850   -7.128845 -240.360333

  COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   13.197136  76.586188    2.794079
434.820092   57.832526  405.522778
 0.25000   13.197136  76.596578    2.794079
434.845412   57.728107  408.423846
 0.50000   13.197136  76.606463    2.794079
434.871187   57.738299  411.354287
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<               MOVING          LOAD            >
                                1543

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   13.197136  76.616390    2.794079
434.897506   58.086696  414.372988
 1.00000   13.197136  76.626153    2.794079
434.923898   58.694009  417.402759

  COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -13.689571  -75.362639   -7.106444
-333.337110   -5.791928 -794.590969
 0.25000  -13.689571  -75.353135   -7.106444
-333.308530   -5.677230 -747.427569
 0.50000  -13.689571  -75.344032   -7.106444
-333.281169   -5.579699 -702.031553
 0.75000  -13.689571  -75.337212   -7.106444
-333.255184   -5.489476 -658.032123
 1.00000  -13.689571  -75.332469   -7.106444
-333.232207   -5.401478 -615.815615

  COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   14.075953  167.683980    2.766834
542.900373   51.439435  581.162459
 0.25000   14.075953  167.692791    2.766834
542.923169   51.443237  589.597091
 0.50000   14.075953  167.701689    2.766834
542.946374   51.650511  598.054419
 0.75000   14.075953  167.710624    2.766834
542.970068   52.229342  606.592125
 1.00000   14.075953  167.719411    2.766834
542.993836   53.080972  615.137290

  COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -14.406377  -86.752820   -6.727635
-398.467208   -6.093526  -1407.238
 0.25000  -14.406377  -86.744265   -6.727635
-398.441478   -5.951862  -1370.683
 0.50000  -14.406377  -86.736172   -6.727635
-398.416840   -5.809999  -1335.925
 0.75000  -14.406377  -86.729927   -6.727635
-398.393446   -5.668458  -1302.783
 1.00000  -14.406377  -86.725651   -6.727635
-398.372761   -5.526984  -1271.053

  COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.807301  351.471739    4.778939
573.619573   46.477958  707.315813
 0.25000   15.807301  360.649632    4.778939
573.619573   46.490878  692.144794
 0.50000   15.807301  369.929651    4.778939
584.386504   46.686107  704.596829
 0.75000   15.807301  379.270129    4.778939
602.286156   47.189697  718.955446
 1.00000   15.807301  388.465339    4.778939
619.043262   47.925924  733.320735

  COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -15.948042  -111.464856   -6.141618
-510.338365  -26.942413  -1972.705
 0.25000  -15.948042  -102.740998   -6.141618
-493.086810  -27.068827  -1983.719
 0.50000  -15.948042  -95.926978   -6.141618
-475.296031  -27.224668  -1996.279
 0.75000  -15.948042  -90.772589   -6.141618
-460.095430  -27.459183  -2010.146
 1.00000  -15.948042  -89.457805   -6.141618
-460.095430  -27.744372  -2025.189

  COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    4.972986  72.169464    0.095592
204.161151   24.662324  231.370043
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<               MOVING          LOAD            >
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000	4.972986	72.277154	0.095592	
204.439766	25.469331	235.328269		
0.50000	4.972986	72.385907	0.095592	
204.723381	26.472827	239.520483		
0.75000	4.972986	72.495113	0.095592	
205.012698	27.639003	243.775673		
1.00000	4.972986	72.602507	0.095592	
205.303477	28.962419	248.044632		

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.141962	-36.068064	-3.904268	
-145.288752	-1.538353	-607.640508		
0.25000	-5.141962	-35.963496	-3.904268	
-144.974283	-1.525585	-595.758917		
0.50000	-5.141962	-35.863358	-3.904268	
-144.673142	-1.546140	-584.596929		
0.75000	-5.141962	-35.788251	-3.904268	
-144.387221	-1.567084	-573.856310		
1.00000	-5.141962	-35.735988	-3.904268	
-144.134408	-1.588301	-563.722381		

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.188100	221.566125	1.314244	
376.743565	22.023805	471.879270		
0.25000	7.188100	221.575915	1.314244	
376.768894	22.985072	483.601079		
0.50000	7.188100	221.585802	1.314244	
376.794677	24.127191	495.348810		
0.75000	7.188100	221.595729	1.314244	
376.821003	25.536381	507.109748		
1.00000	7.188100	221.605493	1.314244	
376.847413	27.195817	518.879309		

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-7.169888	-54.125959	-3.592401	
-259.894858	-11.572702	-1455.971		
0.25000	-7.169888	-54.116453	-3.592401	
-259.866269	-12.068697	-1463.471		
0.50000	-7.169888	-54.107350	-3.592401	
-259.838893	-12.592843	-1471.652		
0.75000	-7.169888	-54.100522	-3.592401	
-259.812900	-13.165975	-1480.439		
1.00000	-7.169888	-54.095770	-3.592401	
-259.789917	-13.797154	-1489.515		

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	12.615739	227.164965	2.320332	
534.863030	45.062184	600.874719		
0.25000	12.615739	227.173776	2.320332	
534.885826	45.330265	612.253561		
0.50000	12.615739	227.182674	2.320332	
534.909031	45.853573	623.654744		
0.75000	12.615739	227.191609	2.320332	
534.932725	46.685763	635.069663		
1.00000	12.615739	227.200396	2.320332	
534.956493	47.776847	646.535914		

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-12.832193	-81.962039	-6.214760	
-386.250983	-12.937204	-1627.601		
0.25000	-12.832193	-81.953484	-6.214760	
-386.225254	-13.307854	-1611.185		
0.50000	-12.832193	-81.945290	-6.214760	
-386.200615	-13.704001	-1595.928		
0.75000	-12.832193	-81.939145	-6.214760	
-386.177222	-14.144359	-1581.947		
1.00000	-12.832193	-81.934869	-6.214760	
-386.156537	-14.637180	-1569.034		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	16.365960	453.908575	4.872010	
582.917054	40.783332	751.190404		
0.25000	16.365960	468.017957	4.872010	
582.917054	41.066446	714.931168		
0.50000	16.365960	482.342887	4.872010	
582.917054	41.538880	732.364945		
0.75000	16.365960	496.789665	4.872010	
582.917054	42.236850	749.806507		
1.00000	16.365960	511.032077	4.872010	
584.688404	43.146075	767.290854		

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-16.414399	-106.596073	-6.201649	
-529.014586	-35.372748	-2242.848		
0.25000	-16.414399	-96.556986	-6.201649	
-512.003789	-35.361361	-2288.401		
0.50000	-16.414399	-88.833741	-6.201649	
-512.003789	-35.416254	-2334.906		
0.75000	-16.414399	-85.929542	-6.201649	
-512.003789	-35.521710	-2382.752		
1.00000	-16.414399	-85.929542	-6.201649	
-512.003789	-35.715481	-2431.579		

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	10.167881	437.235652	4.853864	
298.460012	5.805682	387.082560		
0.25000	10.167881	455.343165	4.853864	
298.460012	5.169823	316.536868		
0.50000	10.167881	473.851307	4.853864	
298.460012	5.198709	329.080462		
0.75000	10.167881	492.606896	4.853864	
298.460012	5.228359	341.624141		
1.00000	10.167881	511.145872	4.853864	
298.460012	5.258323	354.167832		

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-10.048019	-30.826766	-2.333480	
-413.934913	-41.186182	-1419.661		
0.25000	-10.048019	-27.532901	-2.333480	
-413.934913	-40.878772	-1526.287		
0.50000	-10.048019	-27.532901	-2.333480	
-413.934913	-40.656881	-1632.959		
0.75000	-10.048019	-27.532901	-2.333480	
-413.934913	-40.528953	-1739.632		
1.00000	-10.048019	-27.532901	-2.333480	
-413.934913	-40.452829	-1846.463		

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	13.108669	617.240468	7.146926	
449.636064	9.440090	618.097380		
0.25000	13.108669	638.859802	7.146926	
449.636064	9.485212	544.064587		
0.50000	13.108669	660.902788	7.146926	
449.636064	9.530912	564.130140		
0.75000	13.108669	683.209572	7.146926	
449.636064	9.562910	584.196036		
1.00000	13.108669	705.244209	7.146926	
449.636064	9.640959	604.264203		

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-12.791136	-58.069495	-2.646089	
-529.095454	-62.968954	-2255.023		
0.25000	-12.791136	-47.217029	-2.646089	
-529.095454	-63.602622	-2390.880		
0.50000	-12.791136	-47.032171	-2.646089	
-529.095454	-64.344886	-2527.080		
0.75000	-12.791136	-47.032171	-2.646089	
-529.095454	-65.256635	-2663.289		
1.00000	-12.791136	-47.032171	-2.646089	
-529.095454	-66.298791	-2799.518		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	15.010689	627.948981	6.023011	
560.594062	15.786668	762.420710		
0.25000	15.010689	647.777700	6.023011	
560.594062	16.234818	699.169323		
0.50000	15.010689	667.989929	6.023011	
560.594062	16.822125	721.757190		
0.75000	15.010689	688.441183	6.023011	
560.594062	17.628143	744.345603		
1.00000	15.010689	708.641580	6.023011	
560.594062	18.552026	766.934583		

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-14.786355	-76.977023	-4.053706	
-580.522787	-51.336131	-2617.076		
0.25000	-14.786355	-66.982199	-4.053706	
-580.522787	-51.391028	-2734.985		
0.50000	-14.786355	-66.197165	-4.053706	
-580.522787	-51.535039	-2853.607		
0.75000	-14.786355	-66.197165	-4.053706	
-580.522787	-51.820465	-2972.564		
1.00000	-14.786355	-66.197165	-4.053706	
-580.522787	-52.211996	-3091.578		

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	17.336715	551.706611	5.449868	
629.014144	36.097728	787.674604		
0.25000	17.336715	568.238646	5.449868	
629.014144	36.645977	736.233352		
0.50000	17.336715	585.090260	5.449868	
629.014144	37.367338	756.347728		
0.75000	17.336715	602.141062	5.449868	
629.014144	38.351521	776.467912		
1.00000	17.336715	618.982672	5.449868	
629.014144	39.445494	796.604434		

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-17.343064	-92.394046	-6.442875	
-606.332429	-44.259336	-2487.540		
0.25000	-17.343064	-84.059572	-6.442875	
-606.332429	-44.254994	-2568.062		
0.50000	-17.343064	-83.384587	-6.442875	
-606.332429	-44.324521	-2649.572		
0.75000	-17.343064	-83.384587	-6.442875	
-606.332429	-44.511871	-2732.008		
1.00000	-17.343064	-83.384587	-6.442875	
-606.332429	-44.787444	-2814.971		

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	10.986202	41.333177	2.615335	
338.529887	51.250515	388.277410		
0.25000	10.986202	41.339545	2.615335	
338.541557	50.921619	391.818479		
0.50000	10.986202	41.346104	2.615335	
338.553838	50.773321	397.005277		
0.75000	10.986202	41.352780	2.615335	
338.566592	50.785650	403.635182		
1.00000	10.986202	41.359501	2.615335	
338.579674	50.976901	411.577595		

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-10.953242	-64.367824	-3.189738	
-283.751219	-11.427375	-592.562743		
0.25000	-10.953242	-64.363369	-3.189738	
-283.737457	-10.948135	-578.951958		
0.50000	-10.953242	-64.359191	-3.189738	
-283.724382	-10.810065	-563.551681		
0.75000	-10.953242	-64.355347	-3.189738	
-283.712124	-10.988536	-551.988127		
1.00000	-10.953242	-64.351880	-3.189738	
-283.700790	-11.322925	-542.285935		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	17.597818	97.909209	2.747797	
582.041364	102.943850	721.341199		
0.25000	17.597818	97.915577	2.747797	
582.053012	105.590399	735.038901		
0.50000	17.597818	97.922134	2.747797	
582.065271	108.439393	752.444834		
0.75000	17.597818	97.928809	2.747797	
582.078002	111.575077	772.518776		
1.00000	17.597818	97.935529	2.747797	
582.091063	114.831554	794.975367		

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-17.792882	-116.660958	-7.774811	
-468.702267	-12.338629	-1368.686		
0.25000	-17.792882	-116.656507	-7.774811	
-468.688526	-11.341976	-1366.240		
0.50000	-17.792882	-116.652333	-7.774811	
-468.675472	-10.816152	-1368.184		
0.75000	-17.792882	-116.648492	-7.774811	
-468.663233	-10.580122	-1373.581		
1.00000	-17.792882	-116.645028	-7.774811	
-468.651917	-10.478754	-1382.300		

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	17.895091	224.129904	2.763265	
694.717813	94.706808	1061.933		
0.25000	17.895091	224.313304	2.763265	
695.053116	97.049938	1086.095		
0.50000	17.895091	224.502149	2.763265	
695.406005	99.670243	1117.726		
0.75000	17.895091	224.694378	2.763265	
695.772503	102.611076	1154.544		
1.00000	17.895091	224.887905	2.763265	
696.148482	105.739259	1194.839		

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-17.899791	-140.841655	-7.486523	
-533.471050	-13.712366	-2592.275		
0.25000	-17.899791	-140.713293	-7.486523	
-533.075474	-12.512274	-2679.011		
0.50000	-17.899791	-140.593125	-7.486523	
-532.699649	-12.014347	-2775.210		
0.75000	-17.899791	-140.482530	-7.486523	
-532.347324	-11.748102	-2878.387		
1.00000	-17.899791	-140.382799	-7.486523	
-532.021545	-11.656436	-2986.228		

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	20.228285	443.989085	4.851165	
720.481014	86.316492	1341.808		
0.25000	20.228285	453.460963	4.851165	
734.966799	88.308345	1339.113		
0.50000	20.228285	463.209328	4.851165	
750.323731	90.534255	1353.222		
0.75000	20.228285	473.111665	4.851165	
766.338665	93.029395	1373.861		
1.00000	20.228285	483.074613	4.851165	
782.794873	95.681897	1419.849		

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-19.951256	-172.911848	-6.722819	
-660.039906	-51.421487	-3708.717		
0.25000	-19.951256	-166.783483	-6.722819	
-642.404868	-51.733270	-3940.315		
0.50000	-19.951256	-161.049641	-6.722819	
-625.605872	-52.641046	-4190.259		
0.75000	-19.951256	-155.772620	-6.722819	
-609.846254	-53.745176	-4457.813		
1.00000	-19.951256	-151.028247	-6.722819	
-595.294931	-55.034597	-4740.613		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	6.086717	86.672922	0.144229	
255.631704	48.028375	408.223248		
0.25000	6.086717	86.736645	0.144229	
255.748183	51.005780	421.768171		
0.50000	6.086717	86.802219	0.144229	
255.870769	54.184416	437.748252		
0.75000	6.086717	86.868968	0.144229	
255.998082	57.414575	455.243175		
1.00000	6.086717	86.936167	0.144229	
256.126688	60.647416	473.937948		

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.279422	-55.321212	-4.584635	
-185.225685	-3.134662	-1086.632		
0.25000	-6.279422	-55.276701	-4.584635	
-185.088278	-3.111577	-1124.461		
0.50000	-6.279422	-55.234966	-4.584635	
-184.957732	-3.091344	-1165.135		
0.75000	-6.279422	-55.196356	-4.584635	
-184.835349	-3.078309	-1208.141		
1.00000	-6.279422	-55.161919	-4.584635	
-184.722187	-3.098921	-1252.683		

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.288953	285.553470	1.433693	
433.288768	45.178099	892.312026		
0.25000	8.288953	285.559839	1.433693	
433.300433	47.786558	897.737440		
0.50000	8.288953	285.566397	1.433693	
433.312708	50.542054	927.843196		
0.75000	8.288953	285.573073	1.433693	
433.325456	53.456579	966.556425		
1.00000	8.288953	285.579793	1.433693	
433.338533	56.458788	1009.277		

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-8.160580	-94.239608	-4.325324	
-302.176717	-20.966627	-2741.115		
0.25000	-8.160580	-94.235154	-4.325324	
-302.162959	-21.572213	-2765.550		
0.50000	-8.160580	-94.230978	-4.325324	
-302.149889	-22.308951	-3081.345		
0.75000	-8.160580	-94.227134	-4.325324	
-302.137637	-23.105171	-3267.270		
1.00000	-8.160580	-94.223668	-4.325324	
-302.126307	-23.935463	-3458.413		

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	15.744300	293.554887	2.346179	
655.330973	87.097026	1113.648		
0.25000	15.744300	293.560619	2.346179	
655.341471	90.372322	1123.671		
0.50000	15.744300	293.566521	2.346179	
655.352518	93.844284	1157.343		
0.75000	15.744300	293.572529	2.346179	
655.363992	97.524038	1199.815		
1.00000	15.744300	293.578578	2.346179	
655.375761	101.279671	1246.628		

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-15.710231	-136.473823	-7.092013	
-489.633246	-23.347728	-3051.649		
0.25000	-15.710231	-136.469814	-7.092013	
-489.620864	-23.847662	-3181.219		
0.50000	-15.710231	-136.466056	-7.092013	
-489.609101	-24.456426	-3318.301		
0.75000	-15.710231	-136.462596	-7.092013	
-489.598074	-25.116764	-3467.829		
1.00000	-15.710231	-136.459477	-7.092013	
-489.587877	-25.789347	-3629.760		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	20.795591	571.920567	4.850265	
728.604890	79.316893	1436.466		
0.25000	20.795591	586.733502	4.850265	
729.613922	82.057681	1421.090		
0.50000	20.795591	601.922967	4.850265	
731.695448	84.950823	1421.440		
0.75000	20.795591	617.332553	4.850265	
734.845848	88.000528	1434.277		
1.00000	20.795591	632.832384	4.850265	
751.804162	91.129823	1489.262		

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-20.500656	-172.892314	-6.763673	
-685.918182	-64.441076	-4323.655		
0.25000	-20.500656	-164.463255	-6.763673	
-664.746828	-65.793702	-4642.502		
0.50000	-20.500656	-156.561354	-6.763673	
-655.183086	-67.265328	-4981.392		
0.75000	-20.500656	-149.307661	-6.763673	
-651.337087	-68.832901	-5345.101		
1.00000	-20.500656	-143.652356	-6.763673	
-648.544109	-70.450633	-5735.950		

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	13.353403	555.200619	4.753807	
399.158402	13.118621	782.008012		
0.25000	13.353403	575.124013	4.753807	
399.158402	11.779704	726.976726		
0.50000	13.353403	595.532674	4.753807	
399.158402	11.193486	677.645517		
0.75000	13.353403	616.217777	4.753807	
399.140613	11.047760	667.708999		
1.00000	13.353403	636.891620	4.753807	
398.553793	11.025824	698.130019		

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-12.995619	-65.609241	-1.953640	
-528.975434	-74.093962	-2865.324		
0.25000	-12.995619	-56.980400	-1.953640	
-532.048698	-75.079589	-3229.196		
0.50000	-12.995619	-48.861113	-1.953640	
-535.122256	-76.264027	-3617.556		
0.75000	-12.995619	-47.664017	-1.953640	
-538.177826	-77.680024	-4032.016		
1.00000	-12.995619	-47.587082	-1.953640	
-540.664365	-79.217745	-4473.810		

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	17.131166	785.889526	7.211472	
560.025962	20.824582	1260.625		
0.25000	17.131166	808.616586	7.211472	
560.025962	20.126594	1182.865		
0.50000	17.131166	831.913606	7.211472	
560.025962	19.925912	1137.372		
0.75000	17.131166	855.515870	7.211472	
560.025962	19.908761	1137.025		
1.00000	17.131166	879.182271	7.211472	
560.020247	19.998689	1188.848		

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-16.439613	-112.676884	-2.317471	
-657.146511	-112.808614	-4507.277		
0.25000	-16.439613	-102.145895	-2.317471	
-658.054678	-115.550087	-5008.661		
0.50000	-16.439613	-92.246060	-2.317471	
-658.394693	-118.537148	-5543.659		
0.75000	-16.439613	-87.000261	-2.317471	
-658.734708	-121.781851	-6115.603		
1.00000	-16.439613	-86.746679	-2.317471	
-659.069029	-125.132858	-6721.198		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	18.754849	797.379005	6.072521	
693.063144	36.016039	1502.487		
0.25000	18.754849	818.174093	6.072521	
693.063144	36.767649	1448.787		
0.50000	18.754849	839.490249	6.072521	
693.063144	37.908942	1423.004		
0.75000	18.754849	861.086860	6.072521	
693.063144	39.269409	1437.801		
1.00000	18.754849	882.743352	6.072521	
693.063958	40.888218	1501.285		

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-18.187573	-141.335313	-4.201029	
-721.028434	-93.867696	-5129.467		
0.25000	-18.187573	-131.619685	-4.201029	
-720.969231	-97.769504	-5662.995		
0.50000	-18.187573	-122.486935	-4.201029	
-720.910029	-97.922665	-6178.356		
0.75000	-18.187573	-117.231990	-4.201029	
-720.850827	-100.312779	-6754.327		
1.00000	-18.187573	-116.977736	-4.201029	
-720.792055	-102.800186	-7362.112		

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	22.003011	700.408743	5.468673	
793.246319	74.214700	1511.959		
0.25000	22.003011	717.743166	5.468673	
793.246319	76.711810	1479.980		
0.50000	22.003011	735.511950	5.468673	
793.246319	79.576656	1466.352		
0.75000	22.003011	753.514556	5.468673	
793.246319	82.667182	1487.296		
1.00000	22.003011	771.567128	5.468673	
793.247372	85.956794	1549.514		

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-21.682536	-162.012194	-6.998212	
-772.164894	-81.002614	-4832.124		
0.25000	-21.682536	-153.910746	-6.998212	
-772.103208	-82.502570	-5247.347		
0.50000	-21.682536	-146.295354	-6.998212	
-772.041523	-84.235883	-5698.626		
0.75000	-21.682536	-141.899826	-6.998212	
-771.979839	-86.171010	-6173.539		
1.00000	-21.682536	-141.685357	-6.998212	
-771.918800	-88.196439	-6675.858		

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	17.336715	627.948981	7.146926	
629.014144	57.832526	787.674604		
0.25000	17.336715	647.777700	7.146926	
629.014144	57.728107	736.233352		
0.50000	17.336715	667.989929	7.146926	
629.014144	57.738299	756.347728		
0.75000	17.336715	688.441183	7.146926	
629.014144	58.086696	776.467912		
1.00000	17.336715	708.641580	7.146926	
629.014144	58.694009	796.604434		

COMB DB ---------- MIN

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -17.343064 -111.464856   -7.106444
-606.332429  -62.968954   -2617.076
 0.25000  -17.343064 -102.746098   -7.106444
-606.332429  -63.602622   -2734.985
 0.50000  -17.343064  -95.926978   -7.106444
-606.332429  -64.344886   -2853.607
 0.75000  -17.343064  -90.772589   -7.106444
-606.332429  -65.256635   -2972.564
 1.00000  -17.343064  -89.457805   -7.106444
-606.332429  -63.998751   -3091.578
Program  SAP2000    Nonlinear    Version  7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1551

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       DL ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   22.003011   797.379005    7.211472
793.246319  102.943850    1517.959
 0.25000   22.003011   818.174093    7.211472
793.246319  105.590399    1479.980
 0.50000   22.003011   839.490249    7.211472
793.246319  108.439393    1466.352
 0.75000   22.003011   861.086860    7.211472
793.246319  111.575077    1487.296
 1.00000   22.003011   882.743352    7.211472
793.247372  114.831554    1549.514

 COMB       DL ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -21.682536 -172.911848   -7.774811
-772.164894 -112.808614   -5129.467
 0.25000  -21.682536 -166.783483   -7.774811
-772.103208 -115.550087   -5636.995
 0.50000  -21.682536 -161.049641   -7.774811
-772.041523 -118.537148   -6178.356
 0.75000  -21.682536 -155.772620   -7.774811
-771.979839 -121.781851   -6754.327
 1.00000  -21.682536 -151.028247   -7.774811
-771.918800 -125.132858   -7362.112

 COMB      CAR ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   22.003011   797.379005    7.211472
793.246319  102.943850    1517.959
 0.25000   22.003011   818.174093    7.211472
793.246319  105.590399    1479.980
 0.50000   22.003011   839.490249    7.211472
793.246319  108.439393    1466.352
 0.75000   22.003011   861.086860    7.211472
793.246319  111.575077    1487.296
 1.00000   22.003011   882.743352    7.211472
793.247372  114.831554    1549.514

 COMB      CAR ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -21.682536 -172.911848   -7.774811
-772.164894 -112.808614   -5129.467
 0.25000  -21.682536 -166.783483   -7.774811
-772.103208 -115.550087   -5636.995
 0.50000  -21.682536 -161.049641   -7.774811
-772.041523 -118.537148   -6178.356
 0.75000  -21.682536 -155.772620   -7.774811
-771.979839 -121.781851   -6754.327
 1.00000  -21.682536 -151.028247   -7.774811
-771.918800 -125.132858   -7362.112

 COMB   DESIGN ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   22.003011   797.379005    7.211472
793.246319  102.943850    1517.959
 0.25000   22.003011   818.174093    7.211472
793.246319  105.590399    1479.980
 0.50000   22.003011   839.490249    7.211472
793.246319  108.439393    1466.352
 0.75000   22.003011   861.086860    7.211472
793.246319  111.575077    1487.296
 1.00000   22.003011   882.743352    7.211472
793.247372  114.831554    1549.514

 COMB   DESIGN ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -21.682536 -172.911848   -7.774811
-772.164894 -112.808614   -5129.467
 0.25000  -21.682536 -166.783483   -7.774811
-772.103208 -115.550087   -5636.995
 0.50000  -21.682536 -161.049641   -7.774811
-772.041523 -118.537148   -6178.356
 0.75000  -21.682536 -155.772620   -7.774811
-771.979839 -121.781851   -6754.327
 1.00000  -21.682536 -151.028247   -7.774811
-771.918800 -125.132858   -7362.112
Program  SAP2000    Nonlinear    Version  7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1552

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       127 ================== LENGTH
=    3.450336

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.984338   42.212003    3.162496
193.997913   27.482510   214.237644
 0.25000   12.984338   42.215729    3.162496
194.020910   27.745279   199.190002
 0.50000   12.984338   42.222610    3.162496
194.044927   28.068664   184.142360
 0.75000   12.984338   42.231689    3.162496
194.074340   29.248627   179.264412
 1.00000   12.984338   42.241171    3.162496
194.102968   30.169917   179.953113

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.080863  -31.769339   -2.640360
-250.696764   -7.123316 -221.264486
 0.25000  -13.080863  -31.759604   -2.640360
-250.670290   -6.844799 -230.807382
 0.50000  -13.080863  -31.749703   -2.640360
-250.643914   -6.758769 -259.192602
 0.75000  -13.080863  -31.739839   -2.640360
-250.618073   -7.069747 -288.922366
 1.00000  -13.080863  -31.730070   -2.640360
-250.592679   -7.534330 -319.501084

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   20.987614   75.965033    7.107723
330.457328   58.420610   412.693877
 0.25000   20.987614   75.968725    7.107723
330.480008   57.457506   383.559425
 0.50000   20.987614   75.975576    7.107723
330.505994   57.159682   354.424973
 0.75000   20.987614   75.984650    7.107723
330.533350   57.175951   342.414414
 1.00000   20.987614   75.994127    7.107723
330.561944   57.342860   341.504564

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -21.209291  -79.245861   -2.808205
-439.806030   -5.364773 -585.448423
 0.25000  -21.209291  -79.236128   -2.808205
-439.779627   -5.454728 -588.531874
 0.50000  -21.209291  -79.226230   -2.808205
-439.753282   -5.567254 -633.442966
 0.75000  -21.209291  -79.216370   -2.808205
-439.727473   -5.681939 -679.906787
 1.00000  -21.209291  -79.206604   -2.808205
-439.702113   -5.804263 -728.139835

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   21.863055   87.579421    6.729222
395.607042   52.741388   610.508074
 0.25000   21.863055   87.582752    6.729222
395.627568   51.558082   567.098874
 0.50000   21.863055   87.588924    6.729222
395.650962   51.028549   523.689673
 0.75000   21.863055   87.597092    6.729222
395.675595   50.871377   501.013437
 1.00000   21.863055   87.605622    6.729222
395.701338   50.991681   494.969710

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -21.936356 -170.694290   -2.780784
-547.933716   -5.432790   -1242.202
 0.25000  -21.936356 -170.685530   -2.780784
-547.909937   -5.461781   -1203.715
 0.50000  -21.936356 -170.676621   -2.780784
-547.886220   -5.504689   -1238.691
Program  SAP2000    Nonlinear    Version  7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1553

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.75000  -21.936356 -170.667746   -2.780784
-547.862984   -5.547796   -1275.524
 1.00000  -21.936356 -170.658956   -2.780784
-547.840153   -5.727571   -1314.419

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   24.456132   91.728231    6.155641
458.852426   47.479547   730.328791
 0.25000   24.456132   92.013752    6.155641
458.852426   46.462597   678.103175
 0.50000   24.456132   97.153331    6.155641
473.092469   45.995969   625.877559
 0.75000   24.456132  103.984286    6.155641
490.943570   45.918423   609.234690
 1.00000   24.456132  112.679124    6.155641
508.260815   46.011250   628.958638

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -24.352995 -391.152588   -4.797849
-623.250340   -27.302796   2013.514
 0.25000  -24.352995 -381.988527   -4.797849
-606.514872   -26.936182   -1897.224
 0.50000  -24.352995 -372.677561   -4.797849
-588.631487   -26.640088   -1885.818
 0.75000  -24.352995 -363.419948   -4.797849
-577.199103   -26.420045   -1876.075
 1.00000  -24.352995 -354.271260   -4.797849
-577.199787   -26.237187   -1868.003

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.493016   36.077901    3.908526
143.496940   28.947125   246.514431
 0.25000   7.493016   36.118606    3.908526
143.747814   27.624060   228.933568
 0.50000   7.493016   36.194051    3.908526
144.033744   26.460537   211.352706
 0.75000   7.493016   36.293873    3.908526
144.334814   25.433950   201.555981
 1.00000   7.493016   36.398135    3.908526
144.649443   24.638850   198.471960

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -7.590098  -73.656895   -0.102696
-206.581648   -1.533333 -554.012961
 0.25000   -7.590098  -73.549834   -0.102696
-206.291020   -1.527124 -534.156625
 0.50000   -7.590098  -73.440941   -0.102696
-206.001142   -1.538125 -545.851349
 0.75000   -7.590098  -73.332474   -0.102696
-205.717153   -1.549250 -558.076748
 1.00000   -7.590098  -73.225040   -0.102696
-205.438101   -1.563818 -570.871496

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.609599   55.396101    3.601678
258.844918   27.045891   517.530730
 0.25000   10.609599   55.399802    3.601678
258.867725   25.382720   480.395106
 0.50000   10.609599   55.406660    3.601678
258.893719   23.984115   443.259483
 0.75000   10.609599   55.415735    3.601678
258.921089   22.980574   418.616302
 1.00000   10.609599   55.425213    3.601678
258.949691   22.079333   412.288566

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.498037 -223.187807   -1.320597
-378.593310   -13.686060   -1483.549
Program  SAP2000    Nonlinear    Version  7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1554

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
    T          M2          M3
 0.25000  -10.498037 -223.178074   -1.320597
-378.566890   -12.916444   -1400.778
 0.50000  -10.498037 -223.168175   -1.320597
-378.540537   -12.220632   -1394.058
 0.75000  -10.498037 -223.158314   -1.320597
-378.514720   -11.574943   -1388.270
 1.00000  -10.498037 -223.148548   -1.320597
-378.489352   -10.966904   -1383.324

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   19.407860   83.393663    6.224747
383.889509   47.472218   643.065456
 0.25000   19.407860   83.396994    6.224747
383.910035   46.170372   597.160014
 0.50000   19.407860   83.403167    6.224747
383.933430   45.440715   551.254573
 0.75000   19.407860   83.411334    6.224747
383.958063   45.062873   524.299686
 1.00000   19.407860   83.419864    6.224747
383.983805   44.832790   518.657158

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -19.410088 -229.869861   -2.337598
-538.926581   -14.544828   -1548.964
 0.25000  -19.410088 -229.859602   -2.337598
-538.902802   -13.936735   -1479.949
 0.50000  -19.410088 -229.850693   -2.337598
-538.879085   -13.392241   -1496.169
 0.75000  -19.410088 -229.841818   -2.337598
-538.855850   -12.893044   -1513.958
 1.00000  -19.410088 -229.833028   -2.337598
-538.833018   -12.429347   -1533.089

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   25.047186   88.677254    6.220801
512.241593   42.662067   765.538470
 0.25000   25.047186   88.677254    6.220801
512.241593   41.576225   710.639481
 0.50000   25.047186   89.879123    6.220801
512.241593   40.914193   655.740491
 0.75000   25.047186   97.577365    6.220801
512.241593   40.576289   638.082746
 1.00000   25.047186  107.620061    6.220801
527.991385   40.364341   680.846681

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -24.904346 -513.421532   -4.897058
-587.809237   -35.010360   -2432.797
 0.25000  -24.904346 -499.232963   -4.897058
-585.094353   -34.752700   -2267.621
 0.50000  -24.904346 -484.837468   -4.897058
-585.094353   -34.594700   -2222.593
 0.75000  -24.904346 -470.559986   -4.897058
-585.094353   -34.489280   -2178.882
 1.00000  -24.904346 -456.494047   -4.897058
-585.094353   -34.461861   -2136.362

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   15.377613   29.934672    2.348701
417.410628    4.914935  356.097859
 0.25000   15.377613   29.934672    2.348701
417.410628    4.905724  330.294589
 0.50000   15.377613   29.934672    2.348701
417.410628    4.896884  304.491319
 0.75000   15.377613   29.934672    2.348701
417.410628    4.888825  294.278962
 1.00000   15.377613   30.719936    2.348701
417.410628    5.175095  382.488612
Program  SAP2000    Nonlinear    Version  7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1555

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -15.237999 -511.456420   -4.869681
-296.523021   -39.468885   -1878.257
 0.25000  -15.237999 -493.001651   -4.869681
-296.523021   -39.603573   -1692.772
 0.50000  -15.237999 -474.326844   -4.869681
-296.523021   -39.787361   -1587.343
 0.75000  -15.237999 -455.894337   -4.869681
-296.523021   -40.071201   -1482.417
 1.00000  -15.237999 -437.857209   -4.869681
-296.523021   -40.433917   -1377.501

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   19.788767   51.241092    2.672170
532.736221    9.170021  606.753206
 0.25000   19.788767   51.241092    2.672170
532.736221    9.133395  562.824430
 0.50000   19.788767   51.241092    2.672170
532.736221    9.103191  518.895654
 0.75000   19.788767   51.241092    2.672170
532.736221    9.078757  501.112083
 1.00000   19.788767   59.375904    2.672170
532.736221    9.057542  596.209681

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -19.409276 -705.921945   -7.166029
-447.833434   -65.188123   -2839.065
 0.25000  -19.409276 -683.982495   -7.166029
-447.833434   -64.187650   -2580.353
 0.50000  -19.409276 -661.766884   -7.166029
-447.833434   -63.330835   -2446.996
 0.75000  -19.409276 -639.809008   -7.166029
-447.833434   -62.652288   -2313.721
 1.00000  -19.409276 -618.268427   -7.166029
-447.833434   -62.083123   -2180.523

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   22.420457   69.713563    4.076319
583.496146   18.064022  768.223714
 0.25000   22.420457   69.713563    4.076319
583.496146   17.152360  712.790559
 0.50000   22.420457   69.713563    4.076319
583.496146   16.471136  657.357405
 0.75000   22.420457   69.713563    4.076319
583.496146   15.983058  632.169811
 1.00000   22.420457   77.839870    4.076319
583.496146   15.554427  713.930923

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -22.110566 -710.033970   -6.042651
-559.709119   -51.121474   -3121.315
 0.25000  -22.110566 -689.920381   -6.042651
-559.709119   -50.669360   -2862.938
 0.50000  -22.110566 -669.552262   -6.042651
-559.709119   -50.333236   -2747.379
 0.75000  -22.110566 -649.417613   -6.042651
-559.709119   -50.146115   -2632.460
 1.00000  -22.110566 -629.660636   -6.042651
-559.709119   -50.047311   -2518.071

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   26.323705   86.562847    6.464212
607.849031   38.939060  795.947398
 0.25000   26.323705   86.562847    6.464212
607.849031   37.704612  738.747764
 0.50000   26.323705   86.562847    6.464212
607.849031   36.817971  681.548131
 0.75000   26.323705   86.562847    6.464212
607.849031   36.234720  655.732043
 1.00000   26.323705   93.360215    6.464212
607.849031   35.746468  723.275908
Program  SAP2000    Nonlinear    Version  7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1556

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -26.170901 -621.127645   -5.476633
-629.998173   -43.867960   -2828.444
 0.25000  -26.170901 -604.358593   -5.476633
-629.998173   -43.532238   -2614.322
 0.50000  -26.170901 -587.377088   -5.476633
-629.998173   -43.303212   -2535.148
 0.75000  -26.170901 -570.590140   -5.476633
-629.998173   -43.198134   -2457.158
 1.00000  -26.170901 -554.117904   -5.476633
-629.998173   -43.169608   -2380.060

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   19.642327   68.281439    3.120721
281.447876   50.892751   407.948817
 0.25000   19.642327   68.284899    3.120721
281.459213   50.624686   392.475309
 0.50000   19.642327   68.288736    3.120721
281.471481   50.673986   378.001845
 0.75000   19.642327   68.292906    3.120721
281.484550   50.887115   368.091930
 1.00000   19.642327   68.297352    3.120721
281.498315   51.276002   360.792299

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -18.178906  -49.423529   -2.740637
-343.989342  -11.294757  -537.656540
 0.25000  -18.178906  -49.416816   -2.740637
-343.976245  -10.842878  -539.691461
 0.50000  -18.178906  -49.410150   -2.740637
-343.963476  -10.546577  -544.022707
 0.75000  -18.178906  -49.403600   -2.740637
-343.951191  -10.566668  -549.972728
 1.00000  -18.178906  -49.397222   -2.740637
-343.939516  -10.926277  -557.864719

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   30.609957  123.570890    7.682074
465.169576  114.725245  789.690523
 0.25000   30.609957  123.574346    7.682074
465.180896  111.378428  754.470408
 0.50000   30.609957  123.578180    7.682074
465.193144  108.314679  721.563682
 0.75000   30.609957  123.582347    7.682074
465.206193  105.529499  695.500151
 1.00000   30.609957  123.586788    7.682074
465.219936  102.953745  675.499061

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -29.583799 -111.954780   -2.920645
-590.300599   -10.386415   -1376.785
 0.25000  -29.583799 -111.948068   -2.920645
-590.287526   -10.338049   -1355.729
 0.50000  -29.583799 -111.941404   -2.920645
-590.274780   -10.402066   -1338.219
 0.75000  -29.583799 -111.934854   -2.920645
-590.262517   -10.747550   -1323.602
 1.00000  -29.583799 -111.928477   -2.920645
-590.250863   -11.564204   -1313.112

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   31.210077   149.068756    7.398515
528.815984  105.575125    1189.553
 0.25000   31.210077   149.168273    7.398515
529.141854  102.350013    1132.901
 0.50000   31.210077   149.278649    7.398515
529.494473   99.455174    1079.324
 0.75000   31.210077   149.398627    7.398515
529.870124   96.874991    1035.842
 1.00000   31.210077   149.526504    7.398515
530.265765   94.582998    1003.294
Program  SAP2000    Nonlinear    Version  7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING          LOAD              >
                                1557

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -29.623050 -242.360200   -2.989336
-703.715409   -11.513911   -2980.235
 0.25000  -29.623050 -242.166890   -2.989336
-703.339060   -11.374922   -2885.586
 0.50000  -29.623050 -241.974964   -2.989336
-702.972135   -11.404024   -2739.261
 0.75000  -29.623050 -241.786331   -2.989336
-702.619114   -11.664204   -2627.231
 1.00000  -29.623050 -241.602694   -2.989336
-702.283658   -12.617881   -2524.100

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   34.548511   159.924641    6.663305
633.287775   95.455308   1415.549
 0.25000   34.548511   164.655695    6.663305
608.440453   92.707174   1353.278
 0.50000   34.548511   169.922236    6.663305
624.207868   90.231020   1316.065
 0.75000   34.548511   175.651849    6.663305
641.012764   88.019567   1289.866
 1.00000   34.548511   181.757467    6.663305
658.643726   86.051034   1284.603

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -32.327853  -50.663786   -5.078568
-788.608098   -54.713203   -4734.816
 0.25000  -32.327853  -490.712793   -5.078568
-772.132347   -53.204924   -4437.407
 0.50000  -32.327853  -480.820282   -5.078568
-756.103709   -51.866389   -4154.703
 0.75000  -32.327853  -471.082543   -5.078568
-740.737044   -50.724012   -3888.773
 1.00000  -32.327853  -461.612166   -5.078568
-726.237539   -50.176877   -3640.568

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   9.996021   58.536336    4.567592
183.773920   60.624500  472.265984
 0.25000   9.996021   58.570899    4.567592
183.887114   57.382159  447.697908
 0.50000   9.996021   58.609233    4.567592
184.009598   54.142746  424.285633
 0.75000   9.996021   58.650902    4.567592
184.140084   50.954161  404.076912
 1.00000   9.996021   58.695314    4.567592
184.277514   47.964475  387.641404

 COMB DL-G2-1 ---------- MIN
```

```
 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -10.401832  -93.489060   -0.192057
-258.252578   -3.016521   -1251.657
 0.25000   -10.401832  -93.471936   -0.192057
-258.121843   -2.963753   -1201.993
 0.50000   -10.401832  -93.355293   -0.192057
-257.994382   -2.913666   -1153.895
 0.75000   -10.401832  -93.289793   -0.192057
-257.871750   -2.866296   -1107.692
 1.00000   -10.401832  -93.226028   -0.192057
-257.755218   -2.822039   -1064.020

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.038712   99.941604    4.304587
301.705458   56.361970   1007.426
 0.25000   14.038712   99.945063    4.304587
301.716790   53.328694   953.673691
 0.50000   14.038712   99.948899    4.304587
301.729053   50.407393   903.546538
 0.75000   14.038712   99.953069    4.304587
301.742117   47.653524   855.181198
 1.00000   14.038712   99.957513    4.304587
301.755876   45.024908   855.839470
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                1558

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.273582  -296.812157   -1.561099
-435.032775   -23.760591   -3456.180
 0.25000  -13.273582  -296.805444   -1.561099
-435.019684   -22.734491   -3256.230
 0.50000  -13.273582  -296.798778   -1.561099
-435.006921   -21.734620   -3060.914
 0.75000  -13.273582  -296.792228   -1.561099
-434.994641   -20.795216   -2875.125
 1.00000  -13.273582  -296.785851   -1.561099
-434.982972   -20.191354   -2700.304

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   27.102738   144.670849    7.026591
487.519747   101.128043   1242.700
 0.25000   27.102738   144.673963    7.026591
487.529946   97.292365   1180.343
 0.50000   27.102738   144.677415    7.026591
487.540983   93.681588   1121.834
 0.75000   27.102738   144.681168    7.026591
487.552740   90.246959   1076.824
 1.00000   27.102738   144.685167    7.026591
487.565124   86.985682   1060.332

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -25.874378  -309.974091   -2.545667
-660.967112   -25.501097   -3625.339
 0.25000  -25.874378  -309.968050   -2.545667
-660.955331   -24.675086   -3443.116
 0.50000  -25.874378  -309.962051   -2.545667
-660.943844   -23.754964   -3271.784
 0.75000  -25.874378  -309.956156   -2.545667
-660.932792   -22.889588   -3118.338
 1.00000  -25.874378  -309.950416   -2.545667
-660.922289   -22.251652   -2976.073

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   34.490775   152.763773    6.736139
649.171672   90.885519   1486.104
 0.25000   34.490775   157.798834    6.736139
651.961317   87.669998   1414.382
 0.50000   34.490775   165.038326    6.736139
655.805068   84.636784   1387.966
 0.75000   34.490775   172.928925    6.736139
664.562985   81.766232   1375.990
 1.00000   34.490775   181.329960    6.736139
685.753264   79.028234   1383.276

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -32.746751  -649.419422   -5.040565
-756.113571   -69.983993   -5731.594
 0.25000  -32.746751  -633.977498   -5.040565
-738.674303   -68.148147   -5321.734
 0.50000  -32.746751  -618.573459   -5.040565
-735.520346   -66.553315   -4937.523
 0.75000  -32.746751  -603.392898   -5.040565
-733.442960   -64.680452   -4582.388
 1.00000  -32.746751  -588.600786   -5.040565
-732.438855   -63.262610   -4250.057

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   20.411254   51.013090    1.998545
544.103225   10.848308   698.271695
 0.25000   20.411254   51.069804    1.998545
541.613636   10.848326   662.120999
 0.50000   20.411254   51.582113    1.998545
538.556783   10.968668   671.071832
 0.75000   20.411254   59.446209    1.998545
535.482850   11.595449   716.996823
 1.00000   20.411254   68.050708    1.998545
532.408810   12.900377   768.487656
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                1559

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -19.537195  -641.261984   -4.768520
-397.596008   -78.736478   -4472.906
 0.25000  -19.537195  -620.611019   -4.768520
-398.180352   -77.211428   -4027.506
 0.50000  -19.537195  -599.992005   -4.768520
-398.197432   -75.813153   -3609.506
 0.75000  -19.537195  -579.617244   -4.768520
-398.197432   -74.638985   -3217.224
 1.00000  -19.537195  -559.719150   -4.768520
-398.197432   -73.658720   -2849.076

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   26.812175   92.552580    2.367956
663.712091   19.754359   1188.968
 0.25000   26.812175   92.780905    2.367956
663.377676   19.628943   1126.868
 0.50000   26.812175   97.002493    2.367956
663.031598   19.602178   1122.156
 0.75000   26.812175   106.887893   2.367956
662.697519   19.758333   1160.876
 1.00000   26.812175   117.373137   2.367956
662.357429   20.486361   1235.364

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -24.767374  -887.524178   -7.291680
-558.417958  -124.541560   -6719.474
 0.25000  -24.767374  -863.889465   -7.291680
-558.423643  -121.130225   -6102.690
 0.50000  -24.767374  -840.366218   -7.291680
-558.423643  -117.833927   -5523.868
 0.75000  -24.767374  -817.101731   -7.291680
-558.423643  -114.777580   -4981.279
 1.00000  -24.767374  -794.397670   -7.291680
-558.423643  -111.971546   -4466.238

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   29.712521   124.688799    4.234926
724.527404   40.631827   1500.348
 0.25000   29.712521   124.920548    4.234926
724.586193   39.001663   1422.721
 0.50000   29.712521   129.238033    4.234926
724.645406   37.596424   1398.375
 0.75000   29.712521   138.357691    4.234926
724.704618   36.393695   1414.425
 1.00000   29.712521   148.031604    4.234926
724.763833   35.656486   1461.998

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -27.892688  -895.449564   -6.192851
-692.626109  -102.177157   -7359.383
 0.25000  -27.892688  -873.808078   -6.192851
-692.625295   -99.532814   -6742.010
 0.50000  -27.892688  -852.283625   -6.192851
-692.625295   -96.993726   -6155.490
 0.75000  -27.892688  -830.997207   -6.192851
-692.625295   -94.674986   -5602.656
 1.00000  -27.892688  -810.223030   -6.192851
-692.625295   -92.618334   -5083.074

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   35.631052   150.649365    6.996206
773.707635   85.705305   1547.013
 0.25000   35.631052   150.843393    6.996206
773.768692   82.364605   1468.521
 0.50000   35.631052   154.457526    6.996206
773.830388   79.274819   1434.987
 0.75000   35.631052   162.062008    6.996206
773.892084   76.381609   1437.381
 1.00000   35.631052   170.128689    6.996206
773.953782   73.925213   1467.908
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                1560

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -34.165050  -787.323349   -5.624593
-795.888695   -87.639665   -6667.657
 0.25000  -34.165050  -769.283304   -5.624593
-795.887642   -85.435554   -6148.139
 0.50000  -34.165050  -751.340838   -5.624593
-795.887642   -83.323856   -5660.372
 0.75000  -34.165050  -733.596847   -5.624593
-795.887642   -81.400057   -5195.942
 1.00000  -34.165050  -716.279850   -5.624593
-795.887642   -79.719994   -4766.139

 COMB     DB ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   26.323705   91.728231    7.107723
607.849031   58.420610   795.947398
 0.25000   26.323705   92.013752    7.107723
607.849031   57.457506   738.747764
 0.50000   26.323705   97.153331    7.107723
607.849031   57.159682   681.548131
 0.75000   26.323705   103.984286   7.107723
607.849031   57.515951   655.732043
 1.00000   26.323705   112.679124    7.107723
607.849031   57.342860   723.275908

 COMB     DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -26.170901  -710.033970   -7.166029
-629.998173   -65.188123   -3121.315
 0.25000  -26.170901  -689.920381   -7.166029
-629.998173   -64.187650   -2862.938
 0.50000  -26.170901  -669.552262   -7.166029
-629.998173   -63.330835   -2747.379
 0.75000  -26.170901  -649.417613   -7.166029
-629.998173   -62.652288   -2632.460
 1.00000  -26.170901  -629.660636   -7.166029
-629.998173   -62.083123   -2518.071

 COMB     DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   35.631052   159.924641    7.682074
773.707635   114.725245   1547.013
 0.25000   35.631052   164.655695    7.682074
773.768692   111.378428   1468.521
 0.50000   35.631052   169.922236    7.682074
773.830388   108.314679   1434.987
 0.75000   35.631052   175.651849    7.682074
773.892084   105.529499   1437.381
 1.00000   35.631052   181.757467    7.682074
773.953782   102.953745   1467.908

 COMB     DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -34.165050  -895.449564   -7.291680
-795.888695  -124.541560   -7359.383
 0.25000  -34.165050  -873.808078   -7.291680
-795.887642  -121.130225   -6742.010
 0.50000  -34.165050  -852.283625   -7.291680
-795.887642  -117.833927   -6155.490
 0.75000  -34.165050  -830.997207   -7.291680
-795.887642  -114.777580   -5602.656
 1.00000  -34.165050  -810.223030   -7.291680
-795.887642  -111.971546   -5083.074

 COMB     CAR ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   35.631052   159.924641    7.682074
773.707635   114.725245   1547.013
 0.25000   35.631052   164.655695    7.682074
773.768692   111.378428   1468.521
 0.50000   35.631052   169.922236    7.682074
773.830388   108.314679   1434.987
 0.75000   35.631052   175.651849    7.682074
773.892084   105.529499   1437.381
 1.00000   35.631052   181.757467    7.682074
773.953782   102.953745   1467.908
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                1561

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB     CAR ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -34.165050  -895.449564   -7.291680
-795.888695  -124.541560   -7359.383
 0.25000  -34.165050  -873.808078   -7.291680
-795.887642  -121.130225   -6742.010
 0.50000  -34.165050  -852.283625   -7.291680
-795.887642  -117.833927   -6155.490
 0.75000  -34.165050  -830.997207   -7.291680
-795.887642  -114.777580   -5602.656
 1.00000  -34.165050  -810.223030   -7.291680
-795.887642  -111.971546   -5083.074

 COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   35.631052   159.924641    7.682074
773.707635   114.725245   1547.013
 0.25000   35.631052   164.655695    7.682074
773.768692   111.378428   1468.521
 0.50000   35.631052   169.922236    7.682074
773.830388   108.314679   1434.987
 0.75000   35.631052   175.651849    7.682074
773.892084   105.529499   1437.381
 1.00000   35.631052   181.757467    7.682074
773.953782   102.953745   1467.908

 COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -34.165050  -895.449564   -7.291680
-795.888695  -124.541560   -7359.383
 0.25000  -34.165050  -873.808078   -7.291680
-795.887642  -121.130225   -6742.010
 0.50000  -34.165050  -852.283625   -7.291680
-795.887642  -117.833927   -6155.490
 0.75000  -34.165050  -830.997207   -7.291680
-795.887642  -114.777580   -5602.656
 1.00000  -34.165050  -810.223030   -7.291680
-795.887642  -111.971546   -5083.074

 ELEM      128 ================== LENGTH
=    4.928365

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.898391   23.661319    4.280235
127.943338   30.552847   180.028422
 0.25000   12.898391   23.672155    4.280235
127.974774   30.330893   177.766158
 0.50000   12.898391   23.684079    4.280235
128.009805   30.210990   175.525361
 0.75000   12.898391   23.696820    4.280235
128.046553   30.226255   173.293541
 1.00000   12.898391   23.711762    4.280235
128.088637   30.355025   172.343751

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.909035  -41.107477   -1.781818
-273.107419   -7.690683   -320.100060
 0.25000  -12.909035  -41.092177   -1.781818
-273.067415   -8.191061   -341.877936
 0.50000  -12.909035  -41.078435   -1.781818
-273.032523   -9.759910   -364.487306
 0.75000  -12.909035  -41.065014   -1.781818
-272.998800   -11.363361   -387.560260
 1.00000  -12.909035  -41.052131   -1.781818
-272.977007   -15.776897   -411.370867

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   20.881570   40.640993    9.690994
202.729586   57.950562   341.613888
 0.25000   20.881570   40.651824    9.690994
202.760971   53.711717   336.195132
 0.50000   20.881570   40.663744    9.690994
202.795960   50.364164   331.454121
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                1562

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000   20.881570   40.676480    9.690994
202.832663   47.266239   327.488729
 1.00000   20.881570   40.691413    9.690994
202.874690   44.446803   349.418546

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -20.927676  -98.448875   -1.213849
-488.996208   -6.026468   -729.105526
 0.25000  -20.927676  -98.433583   -1.213849
-488.956260   -7.963042   -756.523157
 0.50000  -20.927676  -98.419845   -1.213849
-488.921412   -11.200694   -785.069735
 0.75000  -20.927676  -98.406428   -1.213849
-488.887734   -19.012329   -814.547953
 1.00000  -20.927676  -98.393548   -1.213849
-488.866483   -29.001709   -845.179460

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   21.820145   56.153703    9.344909
220.715184   52.194942   495.060825
 0.25000   21.820145   56.163452    9.344909
220.743442   48.298311   482.592176
 0.50000   21.820145   56.174181    9.344909
220.774942   45.353284   470.148670
 0.75000   21.820145   56.185644    9.344909
220.807984   42.879804   534.947461
 1.00000   21.820145   56.199086    9.344909
220.845822   40.752163   658.523670

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -21.704591  -193.049901   -1.068203
-612.484905   -6.024813   -1315.417
 0.25000  -21.704591  -193.036137   -1.068203
-612.448940   -7.364779   -1321.614
 0.50000  -21.704591  -193.023771   -1.068203
-612.417567   -12.764769   -1328.772
 0.75000  -21.704591  -193.011695   -1.068203
-612.387246   -20.447653   -1336.975
 1.00000  -21.704591  -193.000103   -1.068203
-612.367998   -29.710994   -1346.211

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   24.012264   66.286082    7.930839
316.153772   47.015388   629.030758
 0.25000   24.012264   76.102595    7.930839
321.346058   43.668819   720.497967
 0.50000   24.012264   87.210876    7.930839
345.238658   41.116139   825.354727
 0.75000   24.012264   99.103823    7.930839
367.985686   41.443582   989.962510
 1.00000   24.012264   112.687399   7.930839
397.690732   42.725084   1195.492

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -23.673084  -391.706408   -4.437636
-654.054637   -27.152986   -1868.532
 0.25000  -23.673084  -377.572227   -4.437636
-624.195774   -27.305626   -1828.166
 0.50000  -23.673084  -364.586011   -4.437636
-601.843424   -29.526449   -1788.600
 0.75000  -23.673084  -351.915605   -4.437636
-596.230340   -34.782792   -1749.924
 1.00000  -23.673084  -339.775853   -4.437636
-596.230340   -41.355975   -1712.233

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   7.502024   20.884194    5.393559
70.756729   24.838888   198.495246
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                1563

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000   7.502024   21.003351    5.393559
71.102109   20.664302   193.828074
 0.50000   7.502024   21.134482    5.393559
71.487102   17.130247   189.164448
 0.75000   7.502024   21.274587    5.393559
71.890958   13.674730   199.167015
 1.00000   7.502024   21.438874    5.393559
72.353416   10.321100   259.086516

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -7.505285  -84.451309   -0.134357
-238.222667   -1.586113   -571.203758
 0.25000  -7.505285  -84.283074   -0.134357
-237.783090   -1.557821   -568.888230
 0.50000  -7.505285  -84.119940   -0.134357
-237.399639   -1.541402   -566.906076
 0.75000  -7.505285  -83.984344   -0.134357
-237.029056   -6.730620   -565.455006
 1.00000  -7.505285  -83.842657   -0.134357
-236.793803   -13.201330   -564.268591

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.506300   42.722725    5.103047
135.144956   22.818353   412.313138
 0.25000   10.506300   42.733557    5.103047
135.176355   18.940050   419.194189
 0.50000   10.506300   42.745478    5.103047
135.211354   16.073121   443.495937
 0.75000   10.506300   42.758215    5.103047
135.248068   13.631332   570.853455
 1.00000   10.506300   42.773150    5.103047
135.290110   12.057953   776.460747

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.252391  -229.958652   -1.727347
-412.233748   -11.019727   -1383.666
 0.25000  -10.252391  -229.943358   -1.727347
-412.083787   -10.524043   -1349.658
 0.50000  -10.252391  -229.929618   -1.727347
-412.048928   -11.151007   -1315.802
 0.75000  -10.252391  -229.916200   -1.727347
-412.015238   -15.071013   -1282.456
 1.00000  -10.252391  -229.903420   -1.727347
-411.993852   -20.091256   -1249.363

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   19.262456   55.704044    8.650575
216.918816   45.686273   518.733559
 0.25000   19.262456   55.713753    8.650575
216.947074   41.402618   522.649593
 0.50000   19.262456   55.724482    8.650575
216.978574   37.932549   542.307750
 0.75000   19.262456   55.735455    8.650575
217.011616   34.677630   554.556310
 1.00000   19.262456   55.749387    8.650575
217.049454   32.624208   836.755804

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -19.060516  -244.306139   -1.657036
-589.867711   -12.604836   -1533.849
 0.25000  -19.060516  -244.292374   -1.657036
-589.831745   -12.089483   -1518.459
 0.50000  -19.060516  -244.280009   -1.657036
-589.800372   -13.989411   -1503.706
 0.75000  -19.060516  -244.267932   -1.657036
-589.770052   -21.827598   -1489.978
 1.00000  -19.060516  -244.256340   -1.657036
-589.750804   -30.712598   -1476.943
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                1564

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   24.433071   66.340316    7.267012
400.575526   41.229960   680.814907
 0.25000   24.433071   80.068855    7.267012
400.575526   37.585290   826.271887
 0.50000   24.433071   97.027516    7.267012
400.575526   36.824077   989.408703
 0.75000   24.433071   115.233297   7.267012
425.626934   38.458483   1201.534
 1.00000   24.433071   135.265536   7.267012
451.028666   40.931064   1444.068

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -24.038248  -494.962749   -5.330558
-571.897203   -35.808007   -2136.477
 0.25000  -24.038248  -473.634946   -5.330558
-567.815542   -34.370208   -2065.423
 0.50000  -24.038248  -453.424831   -5.330558
-567.815542   -34.704807   -1994.923
 0.75000  -24.038248  -433.730805   -5.330558
-567.815542   -39.921976   -1925.291
 1.00000  -24.038248  -414.910245   -5.330558
-567.815542   -46.035973   -1856.465

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.558199   27.638668    0.447885
478.782353   6.785156   382.182872
 0.25000   14.558199   41.536653    0.447885
478.782353   9.765187   589.141462
 0.50000   14.558199   62.984613    0.447885
478.782353   14.113655   822.276424
 0.75000   14.558199   86.143031    0.447885
478.782353   19.523676   1025.675
 1.00000   14.558199   109.896553   0.447885
478.782353   25.848631   1198.743

 COMB DB-G3-1 ------------------- MIN
```

```
 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   -14.273987  -443.208477    -6.682941
-165.819836   -42.342664   -1376.514
 0.25000   -14.273987  -416.857748    -6.682941
-165.819836   -40.288961   -1276.775
 0.50000   -14.273987  -390.308097    -6.682941
-165.819836   -38.274278   -1177.429
 0.75000   -14.273987  -364.495840    -6.682941
-165.819836   -36.271865   -1078.493
 1.00000   -14.273987  -339.963633    -6.682941
-165.819836   -34.396367   -979.778892

 COMB DB-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   18.691498   48.319187     0.392139
566.332728    9.113677   595.913582
 0.25000   18.691498   66.435402     0.392139
566.332728   12.280149   854.974851
 0.50000   18.691498   92.136418     0.392139
566.332728   17.523899    1164.170
 0.75000   18.691498  119.845776     0.392139
566.332728   23.898666   1485.560
 1.00000   18.691498  148.716715     0.392139
566.332728   31.802757   1792.419

 COMB DB-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -18.113160  -626.954209   -10.243583
-302.292393   -64.390833   -2179.405
 0.25000  -18.113160  -595.157405   -10.243583
-302.292393   -59.323744   -2040.993
 0.50000  -18.113160  -563.686636   -10.243583
-302.292393   -54.923869   -1903.208
 0.75000  -18.113160  -533.071685   -10.243583
-302.292393   -51.170099   -1765.725
 1.00000  -18.113160  -503.916503   -10.243583
-302.292393   -48.361980   -1628.562
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                  >
                                       1565

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   21.505802   62.120340     2.834168
550.444116   15.972175   713.668507
 0.25000   21.505802   78.851706     2.834168
550.444116   19.924330   939.270795
 0.50000   21.505802  102.429058     2.834168
550.444116   20.454848    1201.631
 0.75000   21.505802  127.848902     2.834168
550.444116   25.363916   1519.773
 1.00000   21.505802  154.375808     2.834168
550.444116   31.723820   1867.821

 COMB DB-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -20.957275  -648.292945    -8.205886
-457.141989   -49.021196   -2517.294
 0.25000  -20.957275  -619.098685    -8.205886
-457.141989   -49.439046   -2384.682
 0.50000  -20.957275  -590.255546    -8.205886
-457.141989   -48.205683   -2252.644
 0.75000  -20.957275  -562.195070    -8.205886
-457.141989   -46.094973   -2121.052
 1.00000  -20.957275  -535.467123    -8.205886
-457.141989   -48.425902   -1989.878

 COMB DB-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   25.532208   65.778527     6.576179
530.607390   36.440991   723.095334
 0.25000   25.532208   79.732013     6.576179
530.607390   35.008844   908.540862
 0.50000   25.532208   99.389606     6.576179
530.607390   36.105641    1124.524
 0.75000   25.532208  120.553776     6.576179
530.607390   37.947110    1387.129
 1.00000   25.532208  142.701979     6.576179
530.607390   41.886168   1678.601

 COMB DB-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -25.107030  -577.732198    -6.909533
-565.045240   -44.911546   -2379.766
 0.25000  -25.107030  -553.390689    -6.909533
-565.045240   -42.951593   -2279.073
 0.50000  -25.107030  -529.343657    -6.909533
-565.045240   -41.846108   -2179.118
 0.75000  -25.107030  -505.949087    -6.909533
-565.045240   -46.066962   -2080.082
 1.00000  -25.107030  -483.665292    -6.909533
-565.045240   -51.280550   -1981.713

 COMB DL-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   19.607897   48.013819     4.579462
205.427442   51.659796   361.009965
 0.25000   19.607897   48.018845     4.579462
205.442866   49.402549   346.910809
 0.50000   19.607897   48.024497     4.579462
205.459898   47.574904   343.375888
 0.75000   19.607897   48.030679     4.579462
205.478253   46.284572   345.350580
 1.00000   19.607897   48.037245     4.579462
205.497563   45.502550   355.271189

 COMB DL-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -18.051485  -59.419009    -1.668030
-362.817637   -11.104836   -557.655405
 0.25000  -18.051485  -59.409840    -1.668030
-362.799990   -11.526869   -535.654462
 0.50000  -18.051485  -59.400864    -1.668030
-362.783110   -12.783124   -521.551701
 0.75000  -18.051485  -59.392239    -1.668030
-362.767355   -14.949638   -517.839088
 1.00000  -18.051485  -59.384080    -1.668030
-362.753066   -17.862150   -525.195863
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                  >
                                       1566

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   30.670088   81.087372    12.551172
316.019643  103.585047   675.800271
 0.25000   30.670088   81.092394    12.551172
316.035045   92.436168   648.978995
 0.50000   30.670088   81.098044    12.551172
316.052057   82.457550   636.410486
 0.75000   30.670088   81.104222    12.551172
316.070380   74.501308   641.520933
 1.00000   30.670088   81.110784    12.551172
316.089661   68.018192   671.828962

 COMB DL-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -29.422952  -136.029447    -1.366368
-641.812290   -11.755976   -1312.534
 0.25000  -29.422952  -136.020280    -1.366368
-641.794678   -13.011843   -1229.060
 0.50000  -29.422952  -136.011306    -1.366368
-641.777833   -15.268534   -1162.427
 0.75000  -29.422952  -136.002682    -1.366368
-641.762110   -21.780184   -1116.170
 1.00000  -29.422952  -135.994525    -1.366368
-641.747852   -30.059960   -1094.650

 COMB DL-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   31.613112  105.086888    11.966799
329.508190   95.561132   1003.639
 0.25000   31.613112  105.231517    11.966799
329.951602   85.236187   963.800743
 0.50000   31.613112  105.394192    11.966799
330.441356   76.238530   949.511728
 0.75000   31.613112  105.572088    11.966799
330.968872   69.232331   994.512469
 1.00000   31.613112  105.761062    11.966799
331.523959   63.800448   1077.325

 COMB DL-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -29.744658  -272.486707    -1.434895
-771.502397   -12.801959   -2523.290
 0.25000  -29.744658  -272.222715    -1.434895
-770.995421   -14.169982   -2300.233
 0.50000  -29.744658  -271.964297    -1.434895
-770.510527   -16.977673   -2107.801
 0.75000  -29.744658  -271.715943    -1.434895
-770.057945   -23.281555   -1951.329
 1.00000  -29.744658  -271.481014    -1.434895
-769.647558   -31.464389   -1835.249

 COMB DL-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   34.301981  125.115194    10.218868
427.889449   86.820230   1284.917
 0.25000   34.301981  132.244096    10.218868
447.840533   77.952729   1285.472
 0.50000   34.301981  140.276064    10.218868
470.034052   70.751547   1313.276
 0.75000   34.301981  149.056727    10.218868
493.855542   66.788297   1395.966
 1.00000   34.301981  158.369986    10.218868
518.821736   64.990966   1511.491

 COMB DL-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -31.757513  -486.787382    -5.840189
-814.015603   -50.349915   -3640.082
 0.25000  -31.757513  -473.295977    -5.840189
-792.458673   -46.636790   -3253.129
 0.50000  -31.757513  -460.070794    -5.840189
-771.869872   -44.773905   -2914.097
 0.75000  -31.757513  -447.328188    -5.840189
-752.759835   -46.616346   -2623.275
 1.00000  -31.757513  -435.263333    -5.840189
-742.891817   -50.662238   -2384.213
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                  >
                                       1567

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.187674   36.680972     8.072537
100.139502   48.212820   387.739628
 0.25000   10.187674   36.731198     8.072537
100.293522   39.239777   370.047166
 0.50000   10.187674   36.787691     8.072537
100.463637   30.840139   362.394088
 0.75000   10.187674   36.849469     8.072537
100.654870   23.391625   372.662681
 1.00000   10.187674   36.915096     8.072537
100.839681   18.075825   408.908236

 COMB DL-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.452915  -110.223555    -0.224913
-296.155204   -2.777058   -1063.599
 0.25000  -10.452915  -110.131886    -0.224913
-295.979082   -2.614293   -964.870385
 0.50000  -10.452915  -110.042152    -0.224913
-295.810631   -2.748329   -876.107076
 0.75000  -10.452915  -109.955914    -0.224913
-295.653403   -6.857288   -806.320418
 1.00000  -10.452915  -109.874337    -0.224913
-295.510829   -11.889206   -749.496220

 COMB DL-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.290564   73.309444     7.416856
163.101678   45.551634   855.996000
 0.25000   14.290564   73.314469     7.416856
163.117097   37.616441   820.161877
 0.50000   14.290564   73.320123     7.416856
163.134123   30.517552   817.907781
 0.75000   14.290564   73.326302     7.416856
163.152471   24.966684   887.582177
 1.00000   14.290564   73.332867     7.416856
163.171774   21.398643   1002.866

 COMB DL-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -13.298898  -306.847271    -2.393284
-475.678308   -20.102239   -2699.674
 0.25000  -13.298898  -306.838122    -2.393284
-475.660669   -17.926308   -2408.945
 0.50000  -13.298898  -306.829128    -2.393284
-475.643799   -16.606653   -2150.909
 0.75000  -13.298898  -306.820502    -2.393284
-475.628051   -18.359641   -1927.915
 1.00000  -13.298898  -306.812344    -2.393284
-475.613770   -21.889792   -1741.232

 COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   27.334672  102.461022    11.943513
297.528827   87.690631   1060.600
 0.25000   27.334672  102.465544    11.943513
297.542704   75.871956   1017.044
 0.50000   27.334672  102.470631    11.943513
297.558027   65.821137   1009.705
 0.75000   27.334672  102.476193    11.943513
297.574540   57.797305   1074.016
 1.00000   27.334672  102.482102    11.943513
297.591913   52.092027   1186.143

 COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -25.807183  -329.419152    -2.350978
-717.926938   -22.252537   -2975.584
 0.25000  -25.807183  -329.410900    -2.350978
-717.911063   -20.350820   -2702.066
 0.50000  -25.807183  -329.402823    -2.350978
-717.895879   -21.158741   -2455.306
 0.75000  -25.807183  -329.395060    -2.350978
-717.881706   -25.993049   -2252.336
 1.00000  -25.807183  -329.387717    -2.350978
-717.868854   -33.000588   -2089.027
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                  >
                                       1568

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   33.980517  127.166312    10.085251
515.004595   79.630158   1383.452
 0.25000   33.980517  137.532178    10.085251
520.761361   70.053542   1410.685
 0.50000   33.980517  149.234167    10.085251
531.001467   63.939290   1463.567
 0.75000   33.980517  162.030346    10.085251
560.347010   60.410750   1567.120
 1.00000   33.980517  175.559706    10.085251
589.342438   59.278641   1699.596

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -31.876611  -600.933155    -6.865336
-739.487026   -63.421374   -4250.125
 0.25000  -31.876611  -580.177338    -6.865336
-716.358048   -57.689168   -3779.868
 0.50000  -31.876611  -559.776560    -6.865336
-712.595797   -54.891903   -3358.179
 0.75000  -31.876611  -540.073044    -6.865336
-712.161425   -55.974173   -2995.200
 1.00000  -31.876611  -521.377027    -6.865336
-712.160983   -59.190338   -2685.880

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   19.245849   60.248183     0.545673
602.155426   13.554407   768.249850
 0.25000   19.245849   72.349906     0.545673
597.764794   15.406282   857.437632
 0.50000   19.245849   86.093662     0.545673
593.374072   18.582294   951.660132
 0.75000   19.245849  101.106460     0.545673
588.983350   22.985055   1044.723
 1.00000   19.245849  116.907454     0.545673
584.592628   28.133639   1132.674

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -18.182083  -509.024110    -7.821471
-238.982832   -74.222355   -2850.087
 0.25000  -18.182083  -481.855742    -7.821471
-238.982832   -68.227360   -2451.176
 0.50000  -18.182083  -454.989599    -7.821471
-238.982832   -62.929255   -2094.132
 0.75000  -18.182083  -428.914900    -7.821471
-238.982832   -58.304106   -1775.404
 1.00000  -18.182083  -404.108373    -7.821471
-238.982832   -54.276625   -1490.179

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   25.190686   97.764056     0.792049
692.813794   21.206028   1235.170
 0.25000   25.190686  112.050451     0.792049
692.328045   23.125375   1322.428
 0.50000   25.190686  128.226164     0.792049
691.842286   26.438713   1438.846
 0.75000   25.190686  145.908381     0.792049
691.356527   31.276940   1586.751
 1.00000   25.190686  164.545521     0.792049
690.870768   38.132238   1748.763

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -22.867783  -732.187643    -12.532749
-384.939691   -112.391422   -4467.225
 0.25000  -22.867783  -701.011814    -12.532749
-384.939691   -100.965373   -3874.864
 0.50000  -22.867783  -670.217523    -12.532749
-384.939691   -90.716896   -3346.463
 0.75000  -22.867783  -640.356903    -12.532749
-384.939691   -81.895169   -2874.207
 1.00000  -22.867783  -611.976517    -12.532749
-384.939691   -74.736550   -2455.025
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                  >
                                       1569

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   28.690926  118.332632     4.356242
679.388425   36.531397   1461.903
 0.25000   28.690926  131.458877     4.356242
679.473001   34.598933   1526.227
 0.50000   28.690926  146.318059     4.356242
679.557579   34.484990   1622.164
 0.75000   28.690926  162.561261     4.356242
679.642157   36.173203   1775.326
 1.00000   28.690926  179.684498     4.356242
679.726734   40.151875   1959.021

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -26.518193  -771.909407    -10.198249
-568.779231   -92.971955   -5083.592
 0.25000  -26.518193  -743.329264    -10.198249
-568.779231   -84.651407   -4437.861
 0.50000  -26.518193  -715.137366    -10.198249
-568.779231   -78.152223   -3862.059
 0.75000  -26.518193  -687.796385    -10.198249
-568.779231   -73.442665   -3351.733
 1.00000  -26.518193  -661.827155    -10.198249
-568.779231   -70.486906   -2904.559

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   34.821509  127.714125     9.792128
677.381389   74.92710    1467.913
 0.25000   34.821509  138.657757     9.792128
677.469513   66.916349   1510.531
 0.50000   34.821509  151.046632     9.792128
677.557638   60.959680   1584.992
 0.75000   34.821509  164.588835     9.792128
677.645763   57.810818   1713.889
 1.00000   34.821509  178.864830     9.792128
677.733888   57.390213   1876.818

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -32.963894  -694.987651    -8.637166
-715.673397   -80.066392   -4766.488
 0.25000  -32.963894  -671.163060    -8.637166
-715.673397   -73.153166   -4203.291
 0.50000  -32.963894  -647.661749    -8.637166
-715.673397   -68.224739   -3704.181
 0.75000  -32.963894  -624.870379    -8.637166
-715.673397   -67.715768   -3267.358
 1.00000  -32.963894  -603.222559    -8.637166
-715.673397   -69.516314   -2889.471

 COMB      DB -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   25.532208   66.340316     9.690994
566.332728   57.950562   723.095334
 0.25000   25.532208   80.068855     9.690994
566.332728   53.711717   939.270795
 0.50000   25.532208  102.429058     9.690994
566.332728   50.364164    1201.631
 0.75000   25.532208  127.848902     9.690994
566.332728   47.286239   1519.773
 1.00000   25.532208  154.375808     9.690994
566.332728   44.446803   1867.821

 COMB      DB -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -25.107030  -648.292945   -10.243583
-654.054637   -64.390833   -2517.294
 0.25000  -25.107030  -619.098685   -10.243583
-624.195774   -59.323744   -2384.682
 0.50000  -25.107030  -590.255546   -10.243583
-612.417567   -54.923869   -2252.644
 0.75000  -25.107030  -562.195070   -10.243583
-612.387246   -51.170099   -2121.052
 1.00000  -25.107030  -535.467123   -10.243583
-612.367998   -51.280550   -1989.878
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                  >
                                       1570

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   34.821509  127.714125    12.551172
692.813794  103.585047   1467.913
 0.25000   34.821509  138.657757    12.551172
692.328045   92.436168   1526.227
 0.50000   34.821509  151.046632    12.551172
691.842286   82.457550   1622.164
 0.75000   34.821509  164.588835    12.551172
691.356527   74.501308   1775.326
 1.00000   34.821509  179.684498    12.551172
690.870768   68.018192   1959.021

 COMB      DL -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -32.963894  -771.909407   -12.532749
-814.015603  -112.391422   -5083.592
 0.25000  -32.963894  -743.329264   -12.532749
-792.458673  -100.965373   -4437.861
 0.50000  -32.963894  -715.137366   -12.532749
-771.869872   -90.716896   -3862.059
 0.75000  -32.963894  -687.796385   -12.532749
-770.057945   -81.895169   -3351.733
 1.00000  -32.963894  -661.827155   -12.532749
-769.647558   -74.736550   -2904.559

 COMB      CAR -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   34.821509  127.714125    12.551172
692.813794  103.585047   1467.913
 0.25000   34.821509  138.657757    12.551172
692.328045   92.436168   1526.227
 0.50000   34.821509  151.046632    12.551172
691.842286   82.457550   1622.164
 0.75000   34.821509  164.588835    12.551172
691.356527   74.501308   1775.326
 1.00000   34.821509  179.684498    12.551172
690.870768   68.018192   1959.021

 COMB      CAR -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -32.963894  -771.909407   -12.532749
-814.015603  -112.391422   -5083.592
 0.25000  -32.963894  -743.329264   -12.532749
-792.458673  -100.965373   -4437.861
 0.50000  -32.963894  -715.137366   -12.532749
-771.869872   -90.716896   -3862.059
 0.75000  -32.963894  -687.796385   -12.532749
-770.057945   -81.895169   -3351.733
 1.00000  -32.963894  -661.827155   -12.532749
-769.647558   -74.736550   -2904.559

 COMB      DESIGN -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   34.821509  127.714125    12.551172
692.813794  103.585047   1467.913
 0.25000   34.821509  138.657757    12.551172
692.328045   92.436168   1526.227
 0.50000   34.821509  151.046632    12.551172
691.842286   82.457550   1622.164
 0.75000   34.821509  164.588835    12.551172
691.356527   74.501308   1775.326
 1.00000   34.821509  179.684498    12.551172
690.870768   68.018192   1959.021

 COMB      DESIGN -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -32.963894  -771.909407   -12.532749
-814.015603  -112.391422   -5083.592
 0.25000  -32.963894  -743.329264   -12.532749
-792.458673  -100.965373   -4437.861
 0.50000  -32.963894  -715.137366   -12.532749
-771.869872   -90.716896   -3862.059
 0.75000  -32.963894  -687.796385   -12.532749
-770.057945   -81.895169   -3351.733
 1.00000  -32.963894  -661.827155   -12.532749
-769.647558   -74.736550   -2904.559
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                  >
                                       1571

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      129 ================== LENGTH
=    4.927840

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.825551   20.805412     5.264359
66.946824   30.911924   172.416092
 0.25000   12.825551   20.817139     5.264359
66.978181   29.153721   206.947526
 0.50000   12.825551   20.829892     5.264359
67.011561   27.423539   249.690434
 0.75000   12.825551   20.843402     5.264359
67.046615   25.782733   295.012988
 1.00000   12.825551   20.858803     5.264359
67.087690   24.218788   342.198382

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -12.673103  -43.351917    -0.535283
-260.636677   -16.119189   -411.845051
 0.25000  -12.673103  -43.336326    -0.535283
-260.597707   -19.057673   -416.190617
```

```
 0.50000   -12.673103   -43.322333    -0.535283
-260.563812   -22.691099  -420.746376
 0.75000   -12.673103   -43.308784    -0.535283
-260.533704   -26.989484  -425.577044
 1.00000   -12.673103   -43.295904    -0.535283
-260.512300   -31.880387  -430.649396

COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    20.803652   38.572099    9.358240
 98.347328   45.373161  350.107573
 0.25000    20.803652   38.583822    9.358240
 98.378640   41.169474  430.818293
 0.50000    20.803652   38.596570    9.358240
 98.411973   37.238460  525.195386
 0.75000    20.803652   38.610076    9.358240
 98.446980   33.557115  626.713202
 1.00000    20.803652   38.625468    9.358240
 98.487995   30.204761  734.677455

COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -20.523792  -100.094396   -0.331255
-468.028243  -29.512066  -845.900684
 0.25000   -20.523792  -100.078813   -0.331255
-467.989330  -35.364760  -843.122981
 0.50000   -20.523792  -100.064824   -0.331255
-467.955480  -42.221878  -840.467926
 0.75000   -20.523792  -100.051279   -0.331255
-467.925612  -50.163300  -838.427659
 1.00000   -20.523792  -100.038404   -0.331255
-467.904241  -58.970295  -836.537641

COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    21.794497   54.012220    8.971745
 94.017126   42.387909  659.579078
 0.25000    21.794497   54.022772    8.971745
 94.045317   38.759117  792.388326
 0.50000    21.794497   54.034247    8.971745
 94.075328   35.401496  951.602920
 0.75000    21.794497   54.046403    8.971745
 94.106844   32.239950  1129.771
 1.00000    21.794497   54.060258    8.971745
 94.143771   29.345825  1322.680

COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -21.333157  -184.765752   -0.541437
-581.353412  -30.035797  -1346.916
 0.25000   -21.333157  -184.751726   -0.541437
-581.318378  -34.940829  -1320.596
 0.50000   -21.333157  -184.739135   -0.541437
-581.287903  -41.000614  -1294.445
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1572

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   -21.333157  -184.726944   -0.541437
-581.260968  -48.244155  -1268.876
 1.00000   -21.333157  -184.715355   -0.541437
-581.241727  -56.501851  -1243.433

COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    23.660832   83.286807    7.686197
 217.623666   45.003499  1196.178
 0.25000    23.660832   94.257374    7.686197
 238.921856   44.343700  1400.429
 0.50000    23.660832  106.203664    7.686197
 261.173326   44.219656  1616.999
 0.75000    23.660832  118.883098    7.686197
 284.915905   44.392133  1843.464
 1.00000    23.660832  133.049355    7.686197
 318.968741   44.954234  2072.606

COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -22.915788  -358.113180   -3.403322
-606.311935  -37.212534  -1717.603
 0.25000   -22.915788  -343.747834   -3.403322
-576.749396  -45.002098  -1655.944
 0.50000   -22.915788  -330.574507   -3.403322
-558.692882  -48.551635  -1599.435
 0.75000   -22.915788  -317.828086   -3.403322
-540.570156  -53.098475  -1543.408
 1.00000   -22.915788  -305.732630   -3.403322
-539.813100  -58.501430  -1487.513

COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.511815   21.411357    3.873465
 25.313844   10.659551  259.950900
 0.25000    7.511815   21.540325    3.873465
 25.658395    8.757171  321.880174
 0.50000    7.511815   21.680569    3.873465
 26.025196    7.157065  391.969654
 0.75000    7.511815   21.829143    3.873465
 26.413398    5.672408  468.412928
 1.00000    7.511815   21.998480    3.873465
 26.861722    4.464014  550.244877

COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -7.357103   -80.905998   -0.154491
-228.453469  -13.277010  -564.482720
 0.25000   -7.357103   -80.734562   -0.154491
-228.025270  -15.814766  -549.707865
 0.50000   -7.357103   -80.580673   -0.154491
-227.652802  -18.804918  -534.533034
 0.75000   -7.357103   -80.431667   -0.154491
-227.323590  -21.912721  -520.228172
 1.00000   -7.357103   -80.290028   -0.154491
-227.088420  -25.440442  -505.584120

COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.433808   45.071619    3.794163
 84.160344   13.519392  777.606377
 0.25000    10.433808   45.083343    3.794163
 84.191667   12.778157  895.589994
 0.50000    10.433808   45.096093    3.794163
 84.225012   12.359148  1046.136
 0.75000    10.433808   45.109599    3.794163
 84.260031   12.139292  1232.293
 1.00000    10.433808   45.124994    3.794163
 84.301060   12.168272  1443.414

COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -9.937324  -209.808736   -1.315520
-382.568264  -20.341336  -1249.544
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1573

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -9.937324  -209.793151   -1.315520
-382.529337  -21.568085  -1202.234
 0.50000   -9.937324  -209.779161   -1.315520
-382.495476  -23.283030  -1155.027
 0.75000   -9.937324  -209.765615   -1.315520
-382.465547  -25.566424  -1107.931
 1.00000   -9.937324  -209.752739   -1.315520
-382.444168  -28.331837  -1060.913

COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    19.156250   57.407038    7.616584
 122.570878   34.372116  837.770183
 0.25000    19.156250   57.417590    7.616584
 122.599068   31.691514  977.110938
 0.50000    19.156250   57.429064    7.616584
 122.629079   29.700578  1151.147
 0.75000    19.156250   57.441220    7.616584
 122.660596   27.668720  1359.518
 1.00000    19.156250   57.455078    7.616584
 122.697522   25.873154  1592.454

COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -18.591668  -227.641799   -1.275193
-553.503194  -31.177097  -1477.455
 0.25000   -18.591668  -227.627773   -1.275193
-553.468159  -35.086577  -1435.968
 0.50000   -18.591668  -227.615182   -1.275193
-553.437685  -39.860750  -1394.870
 0.75000   -18.591668  -227.602990   -1.275193
-553.410749  -45.562715  -1353.967
 1.00000   -18.591668  -227.591402   -1.275193
-553.391508  -52.051239  -1313.243

COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    23.938328   97.993071    6.493284
 311.405802   43.545877  1444.278
 0.25000    23.938328  114.837585    6.493284
 311.405802   43.914975  1692.256
 0.50000    23.938328  133.212503    6.493284
 328.124504   45.120543  1938.960
 0.75000    23.938328  152.764604    6.493284
 353.130494   46.862911  2183.350
 1.00000    23.938328  174.012075    6.493284
 375.413117   49.106861  2420.021

COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -23.127172  -444.507966   -5.050945
-501.873641  -47.383433  -1856.548
 0.25000   -23.127172  -422.911858   -5.050945
-491.022991  -48.776002  -1782.068
 0.50000   -23.127172  -402.513692   -5.050945
-491.022991  -50.902633  -1707.911
 0.75000   -23.127172  -382.795125   -5.050945
-491.022991  -53.802659  -1633.916
 1.00000   -23.127172  -364.127230   -5.050945
-491.022991  -57.359329  -1560.130

COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    13.879737   77.328277    0.242980
 469.264557   27.742542  1197.169
 0.25000    13.879737   98.854894    0.242980
 469.264557   31.431102  1385.047
 0.50000    13.879737  122.453068    0.242980
 469.264557   36.106060  1539.500
 0.75000    13.879737  147.685822    0.242980
 469.264557   41.654885  1659.856
 1.00000    13.879737  173.604767    0.242980
 469.264557   48.009996  1748.876
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1574

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -13.400176  -378.681962   -6.876373
-71.892617   -36.015054  -979.143908
 0.25000   -13.400176  -352.207913   -6.876373
-71.892617   -33.050369  -914.420317
 0.50000   -13.400176  -325.669385   -6.876373
-71.892617   -30.089734  -849.815150
 0.75000   -13.400176  -300.059645   -6.876373
-71.892617   -27.130514  -784.973327
 1.00000   -13.400176  -275.937150   -6.876373
-71.892617   -24.171642  -720.431833

COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    17.785454   106.781673    0.544384
 571.712159   34.355564  1790.959
 0.25000    17.785454   132.520188    0.544384
 571.712159   39.754313  2046.820
 0.50000    17.785454   160.674816    0.544384
 571.712159   46.472209  2280.539
 0.75000    17.785454   190.739265    0.544384
 571.712159   54.358891  2498.962
 1.00000    17.785454   222.135666    0.544384
 571.712159   63.151155  2698.440

COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -16.914898  -541.170591   -9.313214
-183.913344  -50.633393  -1627.813
 0.25000   -16.914898  -509.149284   -9.313214
-183.913344  -46.525959  -1529.037
 0.50000   -16.914898  -477.603721   -9.313214
-183.913344  -42.436104  -1430.261
 0.75000   -16.914898  -447.148738   -9.313214
-183.913344  -38.370923  -1331.487
 1.00000   -16.914898  -418.408309   -9.313214
-183.913344  -34.322313  -1232.898

COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    20.750735   114.798539    2.316694
 506.457707   34.862290  1867.108
 0.25000    20.750735   138.407609    2.316694
 506.457707   38.870481  2156.534
 0.50000    20.750735   164.228469    2.316694
 506.457707   44.087160  2435.551
 0.75000    20.750735   191.797107    2.316694
 506.457707   50.393337  2705.537
 1.00000    20.750735   220.634767    2.316694
 506.457707   57.494689  2960.190

COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -19.840286  -566.024881   -7.971337
-342.888732  -50.225627  -1989.335
 0.25000   -19.840286  -536.617573   -7.971337
-342.888732  -47.338002  -1883.265
 0.50000   -19.840286  -507.697693   -7.971337
-342.888732  -44.772159  -1777.288
 0.75000   -19.840286  -479.776372   -7.971337
-342.888732  -42.583088  -1671.361
 1.00000   -19.840286  -453.421947   -7.971337
-342.888732  -40.717129  -1565.630

COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    24.887473   110.046039    5.504176
 454.058795   44.832849  1678.242
 0.25000    24.887473   129.729987    5.504176
 454.058795   46.263747  1952.888
 0.50000    24.887473   151.257858    5.504176
 454.058795   48.713222  2222.364
 0.75000    24.887473   174.242796    5.504176
 454.058795   52.086459  2486.890
 1.00000    24.887473   198.287347    5.504176
 454.058795   56.216521  2741.082
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1575

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -24.027285  -509.924704   -6.752094
-462.083029  -52.951191  -1981.518
 0.25000   -24.027285  -485.405409   -6.752094
-462.083029  -53.115854  -1891.255
 0.50000   -24.027285  -461.294124   -6.752094
-462.083029  -53.869409  -1801.217
 0.75000   -24.027285  -438.015323   -6.752094
-462.083029  -55.275026  -1711.258
 1.00000   -24.027285  -416.042720   -6.752094
-462.083029  -57.215545  -1621.614

COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    19.580945   35.791836    6.665194
 131.688674   46.291609  356.190919
 0.25000    19.580945   35.797426    6.665194
 131.704312   42.199552  380.695961
 0.50000    19.580945   35.803635    6.665194
 131.721809   38.652062  410.725446
 0.75000    19.580945   35.810333    6.665194
 131.740105   35.629756  460.821057
 1.00000    19.580945   35.817388    6.665194
 131.759438   32.988572  525.705605

COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -17.853462  -62.669347   -0.726475
-340.121750  -18.344011  -525.607198
 0.25000   -17.853462  -62.660491   -0.726475
-340.102478  -21.116789  -516.404589
 0.50000   -17.853462  -62.651882   -0.726475
-340.088540  -24.741768  -511.529278
 0.75000   -17.853462  -62.643656   -0.726475
-340.073470  -29.147916  -532.104603
 1.00000   -17.853462  -62.635943   -0.726475
-340.059914  -34.146058  -569.663064

COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    30.755635   62.755998   12.880258
 190.144703   69.445470  673.485123
 0.25000    30.755635   62.761586   12.880258
 190.160318   60.805603  727.661004
 0.50000    30.755635   62.767792   12.880258
 190.177589   53.380740  799.066914
 0.75000    30.755635   62.774487   12.880258
 190.196057   46.998795  905.520001
 1.00000    30.755635   62.781538   12.880258
 190.215360   41.547725  1048.209

COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -29.110765  -142.516141   -0.700777
-603.067596  -30.766393  -1094.977
 0.25000   -29.110765  -142.507289   -0.700777
-603.050641  -36.381103  -1048.299
 0.50000   -29.110765  -142.498682   -0.700777
-603.034457  -43.606371  -1020.193
 0.75000   -29.110765  -142.490459   -0.700777
-603.019420  -52.076353  -1009.796
 1.00000   -29.110765  -142.482748   -0.700777
-603.005894  -62.530300  -1089.222

COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    32.012803   87.691499   12.098864
 181.534722   65.721272  1079.254
 0.25000    32.012803   87.852403   12.098864
 181.984262   58.086937  1166.255
 0.50000    32.012803   88.031122   12.098864
 182.481484   51.599961  1288.217
 0.75000    32.012803   88.229308   12.098864
 183.013166   46.202140  1459.240
 1.00000    32.012803   88.426951   12.098864
 183.568882   41.695940  1704.754
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1576

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -29.644248  -264.804216   -1.022211
-711.799649  -32.076462  -1835.340
 0.25000   -29.644248  -264.549284   -1.022211
-711.311600  -37.153325  -1703.118
 0.50000   -29.644248  -264.301417   -1.022211
-710.845750  -43.803822  -1605.924
 0.75000   -29.644248  -264.064609   -1.022211
-710.412908  -52.066455  -1565.999
 1.00000   -29.644248  -263.842555   -1.022211
-710.023597  -61.548611  -1615.452

COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    34.165235   122.787543   10.458034
 311.869692   67.327094  1512.944
 0.25000    34.165235   130.823880   10.458034
 332.111052   63.005408  1640.676
 0.50000    34.165235   139.749182   10.458034
 354.540539   59.990364  1798.695
 0.75000    34.165235   149.374957   10.458034
 378.479222   58.210092  2000.602
 1.00000    34.165235   159.490722   10.458034
 403.455481   57.558975  2277.370

COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -31.076722  -435.856032   -5.264467
-730.863409  -51.541811  -2384.538
 0.25000   -31.076722  -422.938249   -5.264467
-710.407216  -52.701027  -2163.928
 0.50000   -31.076722  -410.359566   -5.264467
-690.855798  -55.496397  -1989.971
 0.75000   -31.076722  -398.306388   -5.264467
-672.788224  -59.918982  -1881.005
 1.00000   -31.076722  -387.000029   -5.264467
-660.367582  -65.617308  -1882.931

COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    10.385090   32.101823    5.781059
 46.218361   18.631716  409.694655
 0.25000    10.385090   32.157699    5.781059
 46.374510   14.485499  446.956089
 0.50000    10.385090   32.219762    5.781059
 46.547221   10.968542  499.662456
 0.75000    10.385090   32.286710    5.781059
 46.731901    8.100065  571.576366
 1.00000    10.385090   32.357220    5.781059
 46.924931    6.468575  674.851763

COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -10.406981  -110.865478   -0.267999
-276.064691  -11.962034  -749.276232
 0.25000   -10.406981  -110.776953   -0.267999
-275.895138  -14.151753  -686.606573
 0.50000   -10.406981  -110.690881   -0.267999
-275.733299  -17.130840  -643.116268
 0.75000   -10.406981  -110.608650   -0.267999
-275.582925  -21.193009  -621.059763
 1.00000   -10.406981  -110.531543   -0.267999
-275.447670  -26.645250  -635.498009

COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    14.581993   72.486740    5.438709
 96.002657   22.806779  1003.946
 0.25000    14.581993   72.492329    5.438709
 96.018289   20.288970  1073.021
 0.50000    14.581993   72.498538    5.438709
 96.035580   18.603581  1185.848
 0.75000    14.581993   72.505235    5.438709
 96.054068   17.749222  1346.479
 1.00000    14.581993   72.512289    5.438709
 96.073394   17.600902  1589.342
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1577

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -13.208743  -281.582628   -2.197289
-427.480295  -22.092488  -1740.888
 0.25000   -13.208743  -281.573773   -2.197289
-427.463311  -22.953019  -1564.901
 0.50000   -13.208743  -281.565164   -2.197289
-427.447102  -24.782242  -1428.898
 0.75000   -13.208743  -281.556939   -2.197289
-427.432040  -27.754411  -1334.125
 1.00000   -13.208743  -281.549227   -2.197289
-427.418492  -31.603605  -1334.293

COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    27.613192   92.586073   10.820937
 179.089429   53.987543  1188.030
 0.25000    27.613192   92.591104   10.820937
 179.103499   47.823569  1273.793
 0.50000    27.613192   92.596692   10.820937
 179.119060   42.864805  1404.845
 0.75000    27.613192   92.602719   10.820937
 179.135700   39.014022  1593.583
 1.00000    27.613192   92.609067   10.820937
 179.153093   36.050651  1870.049

COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -25.570930  -309.533936   -2.209174
-657.309614  -33.497956  -2089.027
 0.25000   -25.570930  -309.525267   -2.209174
-657.294329  -37.112800  -1920.701
 0.50000   -25.570930  -309.517519   -2.209174
-657.279741  -42.246370  -1794.484
 0.75000   -25.570930  -309.510116   -2.209174
-657.266185  -48.950137  -1727.604
 1.00000   -25.570930  -309.503175   -2.209174
-657.253992  -56.870195  -1742.927

COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    33.620746   135.742205    9.320308
 395.887862   61.775696  1700.737
 0.25000    33.620746   147.691305    9.320308
 402.661931   59.009218  1855.201
 0.50000    33.620746   160.938592    9.320308
 425.236020   57.686192  2035.434
 0.75000    33.620746   175.215408    9.320308
 454.123282   57.676654  2248.924
 1.00000    33.620746   190.179450    9.320308
 482.282536   58.870438  2534.529

COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -30.935378  -521.727265   -7.225624
-638.845432  -60.136792  -2686.390
 0.25000   -30.935378  -502.119905   -7.225624
-617.676209  -59.462719  -2418.861
 0.50000   -30.935378  -482.961869   -7.225624
-606.784209  -61.382622  -2205.600
 0.75000   -30.935378  -464.548678   -7.225624
-606.738040  -62.853741  -2053.729
 1.00000   -30.935378  -447.240561   -7.225624
-606.733457  -66.528285  -2019.775

COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    18.269854   90.415662    0.608988
 558.284784   29.675185  1131.721
 0.25000    18.269854   105.013933   0.608988
 553.894530   33.002984  1248.854
 0.50000    18.269854   121.211323   0.608988
 549.504276   37.494607  1357.955
 0.75000    18.269854   138.604392   0.608988
 545.114022   42.986013  1455.733
 1.00000    18.269854   156.761975   0.608988
 540.723767   49.090603  1559.600
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1578

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -16.941132  -398.414422   -8.949404
-124.978929  -55.173533  -1491.209
 0.25000   -16.941132  -373.350537   -8.949404
-124.978929  -49.079769  -1288.348
 0.50000   -16.941132  -348.710733   -8.949404
-124.978929  -43.590325  -1115.431
 0.75000   -16.941132  -324.910625   -8.949404
```

```
-124.978929  -38.576948 -971.216946
 1.00000   -16.941132 -302.427701     -8.949404
-124.978929   -33.931577  -880.214364

 COMB DL-G3-2 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    23.881663   135.984745     1.025198
658.686325   40.280668    1747.905
 0.25000    23.881663   153.018226     1.025198
658.200618   45.212816    1897.331
 0.50000    23.881663   171.907096     1.025198
657.714911   51.726737    2060.842
 0.75000    23.881663   192.218087     1.025198
657.229204   59.657267    2240.365
 1.00000    23.881663   213.420412     1.025198
656.743497   68.533754    2461.488

 COMB DL-G3-2 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -21.161257  -586.841523    -12.851974
-246.413628   -75.882337    -2456.110
 0.25000   -21.161257  -557.917067    -12.851974
-246.413628   -67.078934    -2141.976
 0.50000   -21.161257  -529.526613    -12.851974
-246.413628   -59.258322    -1876.429
 0.75000   -21.161257  -502.129312    -12.851974
-246.413628   -52.283586    -1658.187
 1.00000   -21.161257  -476.285965    -12.851974
-246.413628   -45.961732    -1535.969

 COMB DL-G3-3 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    27.897581   149.973462     3.413106
598.261549   42.741096    1958.824
 0.25000    27.897581   165.602541     3.413106
598.346118   45.455404    2131.571
 0.50000    27.897581   182.932836     3.413106
598.430687   49.828554    2330.114
 0.75000    27.897581   201.569359     3.413106
598.515256   55.778712    2555.122
 1.00000    27.897581   221.026937     3.413106
598.599825   62.868835    2853.253

 COMB DL-G3-3 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -25.187230  -638.013682    -10.935327
-421.627871   -71.479771    -2905.293
 0.25000   -25.187230  -611.510696    -10.935327
-421.627871   -65.019015    -2552.160
 0.50000   -25.187230  -585.501505    -10.935327
-421.627871   -59.856411    -2260.614
 0.75000   -25.187230  -560.405359    -10.935327
-421.627871   -56.040954    -2031.225
 1.00000   -25.187230  -536.736169    -10.935327
-421.627871   -53.277933    -1934.714

 COMB DL-G3-4 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    34.215742   147.427256     8.269906
562.470800   60.085031    1877.383
 0.25000    34.215742   160.456853     8.269906
562.558916   58.637995    2043.725
 0.50000    34.215742   174.904673     8.269906
562.647031   59.026671    2238.853
 0.75000    34.215742   190.441510     8.269906
562.735147   61.072923    2467.925
 1.00000    34.215742   206.662947     8.269906
562.823263   64.369359    2771.661
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1579

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -31.735782  -586.601165    -9.303933
-579.380606   -70.570423    -2890.218
 0.25000   -31.735782  -564.507466    -9.303933
-579.380606   -67.884609    -2579.041
 0.50000   -31.735782  -542.825559    -9.303933
-579.380606   -66.869781    -2326.682
 0.75000   -31.735782  -521.904922    -9.303933
-579.380606   -64.215359    -2137.851
 1.00000   -31.735782  -502.173889    -9.303933
-579.380606   -69.395865    -2070.355

 COMB      DB ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    24.887473   114.798539     9.358240
571.712159   45.373161    1867.108
 0.25000    24.887473   138.407609     9.358240
571.712159   46.263747    2156.534
 0.50000    24.887473   164.228469     9.358240
571.712159   48.713222    2435.551
 0.75000    24.887473   191.797107     9.358240
571.712159   54.358891    2705.537
 1.00000    24.887473   222.135666     9.358240
571.712159   63.151155    2960.190

 COMB      DB ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -24.027285  -566.024881    -9.313214
-606.331935   -52.951191    -1989.335
 0.25000   -24.027285  -536.617573    -9.313214
-581.318378   -53.115854    -1891.255
 0.50000   -24.027285  -507.697693    -9.313214
-581.287903   -53.869409    -1801.217
 0.75000   -24.027285  -479.776372    -9.313214
-581.260968   -55.275026    -1711.258
 1.00000   -24.027285  -453.421947    -9.313214
-581.241727   -58.970295    -1621.614

 COMB      DL ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    34.215742   149.973462    12.880258
658.686325   69.445470    1958.824
 0.25000    34.215742   165.602541    12.880258
658.200618   63.005408    2156.534
 0.50000    34.215742   182.932836    12.880258
657.714911   59.990364    2330.114
 0.75000    34.215742   201.569359    12.880258
657.229204   61.072923    2555.122
 1.00000    34.215742   221.026937    12.880258
656.743497   68.533754    2853.253

 COMB      DL ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -31.735782  -638.013682    -12.851974
-730.863409   -75.882337    -2905.293
 0.25000   -31.735782  -611.510696    -12.851974
-711.311600   -67.884609    -2579.041
 0.50000   -31.735782  -585.501505    -12.851974
-710.845750   -66.869781    -2326.682
 0.75000   -31.735782  -560.405359    -12.851974
-710.412908   -67.498478    -2137.851
 1.00000   -31.735782  -536.736169    -12.851974
-710.023597   -69.395865    -2070.355

 COMB      CAR ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    34.215742   149.973462    12.880258
658.686325   69.445470    1958.824
 0.25000    34.215742   165.602541    12.880258
658.200618   63.005408    2156.534
 0.50000    34.215742   182.932836    12.880258
657.714911   59.990364    2435.551
 0.75000    34.215742   201.569359    12.880258
657.229204   61.072923    2705.537
 1.00000    34.215742   222.135666    12.880258
656.743497   68.533754    2960.190

 COMB      CAR ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -31.735782  -638.013682    -12.851974
-730.863409   -75.882337    -2905.293
 0.25000   -31.735782  -611.510696    -12.851974
-711.311600   -67.884609    -2579.041
 0.50000   -31.735782  -585.501505    -12.851974
-710.845750   -66.869781    -2326.682
 0.75000   -31.735782  -560.405359    -12.851974
-710.412908   -67.498478    -2137.851
 1.00000   -31.735782  -536.736169    -12.851974
-710.023597   -69.395865    -2070.355

 COMB      DESIGN ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    34.215742   149.973462    12.880258
658.686325   69.445470    1958.824
 0.25000    34.215742   165.602541    12.880258
658.200618   63.005408    2156.534
 0.50000    34.215742   182.932836    12.880258
657.714911   59.990364    2435.551
 0.75000    34.215742   201.569359    12.880258
657.229204   61.072923    2705.537
 1.00000    34.215742   222.135666    12.880258
656.743497   68.533754    2960.190

 COMB      DESIGN ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -31.735782  -638.013682    -12.851974
-730.863409   -75.882337    -2905.293
 0.25000   -31.735782  -611.510696    -12.851974
-711.311600   -67.884609    -2579.041
 0.50000   -31.735782  -585.501505    -12.851974
-710.845750   -66.869781    -2326.682
 0.75000   -31.735782  -560.405359    -12.851974
-710.412908   -67.498478    -2137.851
 1.00000   -31.735782  -536.736169    -12.851974
-710.023597   -69.395865    -2070.355

 ELEM      130 ================== LENGTH
=     4.928455

 COMB DB-G1-1 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    12.697563    21.150596     5.373008
49.744377    24.951558    343.235595
 0.25000    12.697563    21.162734     5.373008
49.774338    22.379180    379.444356
 0.50000    12.697563    21.175873     5.373008
49.806979    19.847667    417.075402
 0.75000    12.697563    21.189820     5.373008
49.841821    17.334340    455.766408
 1.00000    12.697563    21.206681     5.373008
49.882953    14.880875    495.254582

 COMB DB-G1-1 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -12.351537   -36.248719    -0.379783
-206.805520   -32.297610   -430.880912
 0.25000   -12.351537   -36.232851    -0.379783
-206.766762   -35.179037   -422.049351
 0.50000   -12.351537   -36.218716    -0.379783
-206.733367   -38.772103   -413.354518
 0.75000   -12.351537   -36.205037    -0.379783
-206.741231   -42.385406   -404.659685
 1.00000   -12.351537   -36.192043    -0.379783
-206.679130   -47.767331   -396.125284

 COMB DB-G1-2 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    20.614981    39.325040     8.591510
77.086236   31.322677    736.464308
 0.25000    20.614981    39.337174     8.591510
77.116151   27.590991    811.460911
 0.50000    20.614981    39.350309     8.591510
77.148744   24.064509    890.960987
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1581

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST            P            V2           V3
        T            M2           M3
 0.75000    20.614981    39.364250     8.591510
77.183538    20.712221    973.941438
 1.00000    20.614981    39.380102     8.591510
77.224606   17.532256    1060.460

 COMB DB-G1-2 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -19.980769   -82.782073    -1.400031
-375.524230   -59.597541   -836.870222
 0.25000   -19.980769   -82.766214    -1.400031
-375.485531   -62.643121   -813.519387
 0.50000   -19.980769   -82.752083    -1.400031
-375.452182   -67.028211   -790.233382
 0.75000   -19.980769   -82.738409    -1.400031
-375.420267   -72.776954   -766.947376
 1.00000   -19.980769   -82.725420    -1.400031
-375.398201   -79.707373   -743.935782

 COMB DB-G1-3 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    21.618063    54.350300     8.128262
106.510202   31.038880    1324.601
 0.25000    21.618063    54.361222     8.128262
106.537136   27.640697    1434.417
 0.50000    21.618063    54.373044     8.128262
106.566480   24.501845    1559.760
 0.75000    21.618063    54.385592     8.128262
106.597806   21.547733    1700.294
 1.00000    21.618063    54.399861     8.128262
106.634781   18.726898    1852.206

 COMB DB-G1-3 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -20.797261  -152.161165    -1.905842
-478.985591   -56.785756   -1243.746
 0.25000   -20.797261  -152.146890    -1.905842
-478.950749   -58.979651   -1198.045
 0.50000   -20.797261  -152.134171    -1.905842
-478.920725   -62.498796   -1152.396
 0.75000   -20.797261  -152.121863    -1.905842
-478.891951   -67.459632   -1106.747
 1.00000   -20.797261  -152.110172    -1.905842
-478.872084   -73.722650   -1061.352

 COMB DB-G1-4 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    23.232230   103.380017     7.207020
220.952477   47.271954    2073.966
 0.25000    23.232230   114.736232     7.207020
243.315550   45.490587    2230.240
 0.50000    23.232230   127.050266     7.207020
265.529133   44.375439    2388.308
 0.75000    23.232230   140.128065     7.207020
294.545328   43.763925    2552.677
 1.00000    23.232230   154.697357     7.207020
328.277575   43.544419    2717.611

 COMB DB-G1-4 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -22.082161  -308.550674    -4.243941
-525.423599   -59.395526   -1487.676
 0.25000   -22.082161  -293.948354    -4.243941
-493.601822   -59.967496   -1422.194
 0.50000   -22.082161  -280.659164    -4.243941
-475.016474   -61.650915   -1356.764
 0.75000   -22.082161  -267.827009    -4.243941
-456.678909   -64.531614   -1291.334
 1.00000   -22.082161  -255.680156    -4.243941
-450.023019   -68.499946   -1226.115

 COMB DB-G2-1 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    7.466542    21.634505     2.902234
20.239688    4.916849   550.982521
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1582

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST            P            V2           V3
        T            M2           M3
 0.25000    7.466542    21.767992     2.902234
20.568878    4.076905   600.540176
 0.50000    7.466542    21.912487     2.902234
20.927530    3.436924   655.501200
 0.75000    7.466542    22.065856     2.902234
21.310398    2.920237   715.588841
 1.00000    7.466542    22.240253     2.902234
21.762326    2.559165   779.619849

 COMB DB-G2-1 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -7.153880   -66.495315    -1.300469
-190.444377   -25.548547   -505.663610
 0.25000   -7.153880   -66.320842    -1.300469
-190.018528   -25.140819   -484.641387
 0.50000   -7.153880   -66.165389    -1.300469
-189.651568   -25.475300   -463.626120
 0.75000   -7.153880   -66.014958    -1.300469
-189.299895   -26.496965   -442.610912
 1.00000   -7.153880   -65.872068    -1.300469
-189.057072   -28.194242   -421.605016

 COMB DB-G2-2 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    10.283930    52.710754     2.870183
124.947689   13.448793    1444.286
 0.25000    10.283930    52.722889     2.870183
124.977616   13.057508    1524.986
 0.50000    10.283930    52.736025     2.870183
125.010220   13.063979    1632.773
 0.75000    10.283930    52.749968     2.870183
125.045026   13.323640    1773.046
 1.00000    10.283930    52.765822     2.870183
125.086111   13.799844    1937.176

 COMB DB-G2-2 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -9.539526  -173.609461    -2.416870
-330.785343   -28.387096   -1066.968
 0.25000   -9.539526  -173.593600    -2.416870
-330.746630   -27.193548   -1009.725
 0.50000   -9.539526  -173.579468    -2.416870
-330.713270   -26.662508   -958.482443
 0.75000   -9.539526  -173.565792    -2.416870
-330.681299   -26.626398   -907.239243
 1.00000   -9.539526  -173.552802    -2.416870
-330.659225   -27.990426   -856.005911

 COMB DB-G2-3 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    18.938630    64.536935     6.548956
148.639055   27.624567    1594.068
 0.25000    18.938630    64.547856     6.548956
148.665989   25.379907    1698.395
 0.50000    18.938630    64.559679     6.548956
148.695333   23.475666    1828.533
 0.75000    18.938630    64.572227     6.548956
148.726659   21.790720    1988.940
 1.00000    18.938630    64.586496     6.548956
148.763635   20.304192    2171.351

 COMB DB-G2-3 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -17.984721  -188.335166    -2.610166
-463.820916   -52.410606   -1313.456
 0.25000   -17.984721  -188.320891    -2.610166
-463.786074   -53.034077   -1258.541
 0.50000   -17.984721  -188.308172    -2.610166
-463.756050   -54.860482   -1203.625
 0.75000   -17.984721  -188.295864    -2.610166
-463.727277   -57.959295   -1148.784
 1.00000   -17.984721  -188.284173    -2.610166
-463.707410   -62.225001   -1094.099
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1583

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    23.394551   127.609748     6.113361
292.510658   51.755746    2420.748
 0.25000    23.394551   145.046672     6.113361
294.284086   51.197184    2604.757
 0.50000    23.394551   163.999067     6.113361
319.670904   51.563618    2779.803
 0.75000    23.394551   184.142631     6.113361
343.457248   52.687843    2949.110
 1.00000    23.394551   205.951283     6.113361
365.326856   54.429713    3108.685

 COMB DB-G2-4 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -22.190102  -385.726965    -5.839946
-434.328693   -58.497097   -1560.159
 0.25000   -22.190102  -363.811860    -5.839946
-413.544293   -57.374544   -1484.998
 0.50000   -22.190102  -343.272028    -5.839946
-407.113307   -57.249130   -1409.837
 0.75000   -22.190102  -323.496484    -5.839946
-407.113307   -58.191282   -1334.739
 1.00000   -22.190102  -304.865234    -5.839946
-407.113307   -60.108869   -1259.770

 COMB DB-G3-1 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    13.264455   116.908095     1.330467
399.310425   49.988491    1747.416
 0.25000    13.264455   139.212334     1.330467
399.310425   52.198899    1877.578
 0.50000    13.264455   163.581976     1.330467
399.310425   55.512198    1974.025
 0.75000    13.264455   189.520766     1.330467
399.310425   59.862801    2036.688
 1.00000    13.264455   216.011384     1.330467
399.310425   65.229760    2069.244

 COMB DB-G3-1 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -12.653229  -335.616217    -6.457091
-44.460369   -25.623806   -720.159014
 0.25000   -12.653229  -308.847748    -6.457091
-44.460369   -22.820626   -673.941245
 0.50000   -12.653229  -282.219869    -6.457091
-44.460369   -20.018168   -627.723513
 0.75000   -12.653229  -256.726702    -6.457091
-44.460369   -17.216570   -581.505839
 1.00000   -12.653229  -232.944540    -6.457091
-44.460369   -14.415649   -535.288183

 COMB DB-G3-2 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    16.974005   160.624851     1.687639
518.115110   65.786055    2696.989
 0.25000    16.974005   187.278235     1.687639
518.115110   68.801548    2867.722
 0.50000    16.974005   216.343027     1.687639
518.115110   73.238243    3014.169
 0.75000    16.974005   247.268211     1.687639
518.115110   78.991534    3178.049
 1.00000    16.974005   279.398858     1.687639
518.115110   85.944297    3256.719

 COMB DB-G3-2 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -15.848922  -475.755239    -8.368663
-148.186247   -36.294560   -1232.568
 0.25000   -15.848922  -443.342463    -8.368663
-148.186247   -32.502777   -1156.996
 0.50000   -15.848922  -411.657997    -8.368663
-148.186247   -28.723862   -1081.424
 0.75000   -15.848922  -381.275884    -8.368663
-148.186247   -24.961792   -1005.852
 1.00000   -15.848922  -352.839043    -8.368663
-148.186247   -21.217251   -930.280210
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1584

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    20.012348   161.765280     2.839940
471.785327   60.564649    2959.359
 0.25000    20.012348   186.212539     2.839940
471.785327   62.749249    3159.570
 0.50000    20.012348   212.867888     2.839940
471.785327   66.310668    3344.668
 0.75000    20.012348   241.227614     2.839940
471.785327   71.131113    3518.989
 1.00000    20.012348   270.743486     2.839940
471.785327   77.025327    3678.348

 COMB DB-G3-3 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -18.801457  -493.185754    -8.281293
-284.489918   -42.156534   -1565.378
 0.25000   -18.801457  -463.415706    -8.281293
-284.489918   -38.260552   -1476.611
 0.50000   -18.801457  -434.365450    -8.281293
-284.489918   -34.767220   -1387.845
 0.75000   -18.801457  -406.504835    -8.281293
-284.489918   -31.274733   -1299.079
 1.00000   -18.801457  -380.419356    -8.281293
-284.489918   -29.158333   -1210.314

 COMB DB-G3-4 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    24.211136   149.306275     5.418914
420.106792   59.179701    2741.074
 0.25000    24.211136   169.689652     5.418914
420.106792   59.689623    2937.585
 0.50000    24.211136   191.912637     5.418914
420.106792   61.422168    3122.582
 0.75000    24.211136   215.557193     5.418914
420.106792   64.247562    3299.843
 1.00000    24.211136   240.167356     5.418914
420.106792   68.012810    3465.694

 COMB DB-G3-4 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -22.962294  -442.353440    -7.486027
-378.127994   -58.633235   -1621.517
 0.25000   -22.962294  -417.531512    -7.486027
-378.127994   -56.150317   -1538.115
 0.50000   -22.962294  -393.311428    -7.486027
-378.127994   -54.540085   -1454.714
 0.75000   -22.962294  -370.083035    -7.486027
-378.127994   -53.871459   -1371.399
 1.00000   -22.962294  -348.334348    -7.486027
-378.127994   -54.064102   -1288.119

 COMB DL-G1-1 ------------------- MAX

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000    19.487191    32.349662     7.330052
81.937748    34.027492    527.020794
 0.25000    19.487191    32.355689     7.330052
81.953066    29.778039    579.217809
 0.50000    19.487191    32.362370     7.330052
81.970151    26.015526    631.630280
 0.75000    19.487191    32.369580     7.330052
81.988736    22.607294    684.458443
 1.00000    19.487191    32.377176     7.330052
82.008372    19.452408    737.305057

 COMB DL-G1-1 ------------------- MIN

 REL DIST            P            V2           V3
        T            M2           M3
 0.00000   -17.551808   -58.955257    -0.722738
-264.617337   -34.789150   -572.214305
 0.25000   -17.551808   -58.946688    -0.722738
-264.600517   -38.358570   -591.711520
 0.50000   -17.551808   -58.938324    -0.722738
-264.584217   -42.708357   -613.242447
 0.75000   -17.551808   -58.930337    -0.722738
-264.568855   -47.706417   -634.776816
 1.00000   -17.551808   -58.922743    -0.722738
-264.554838   -53.103502   -656.444892
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1585
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	30.713553	59.753270	11.172760	
118.787428	43.265472	1050.478		
0.25000	30.713553	59.759295	11.172760	
118.802722	37.330805	1159.069		
0.50000	30.713553	59.765973	11.172760	
118.819779	31.970877	1268.436		
0.75000	30.713553	59.773180	11.172760	
118.838335	27.367745	1379.949		
1.00000	30.713553	59.780772	11.172760	
118.857940	23.208794	1492.699		

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-28.624499	-129.677232	-1.653325	
-468.147532	-63.382523	-1090.001		
0.25000	-28.624499	-129.668666	-1.653325	
-468.130748	-68.044319	-1120.412		
0.50000	-28.624499	-129.660305	-1.653325	
-468.114481	-74.010227	-1150.871		
0.75000	-28.624499	-129.652321	-1.653325	
-468.099151	-81.397370	-1181.348		
1.00000	-28.624499	-129.644848	-1.653325	
-468.085166	-89.710987	-1211.993		

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	32.232427	87.063030	10.463223	
142.405507	43.931024	1707.246		
0.25000	32.232427	87.236544	10.463223	
142.845792	38.600719	1879.919		
0.50000	32.232427	87.428838	10.463223	
143.336852	34.045258	2057.746		
0.75000	32.232427	87.636389	10.463223	
143.871051	30.090678	2240.824		
1.00000	32.232427	87.855001	10.463223	
144.435446	26.583141	2425.877		

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-29.315198	-227.207046	-2.199836	
-562.828480	-62.269999	-1616.143		
0.25000	-29.315198	-226.960347	-2.199836	
-562.345340	-66.143060	-1642.410		
0.50000	-29.315198	-226.719592	-2.199836	
-561.877092	-71.286897	-1668.724		
0.75000	-29.315198	-226.485659	-2.199836	
-561.435824	-77.740292	-1695.049		
1.00000	-29.315198	-226.274463	-2.199836	
-561.033286	-85.111710	-1721.521		

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	33.968110	134.853623	9.374984	
261.597291	60.388705	2278.902		
0.25000	33.968110	143.582641	9.374984	
281.190335	57.554692	2510.849		
0.50000	33.968110	153.240115	9.374984	
303.166606	55.578513	2733.354		
0.75000	33.968110	163.640078	9.374984	
327.039308	54.324932	2948.986		
1.00000	33.968110	174.562369	9.374984	
352.142621	53.736819	3151.896		

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-30.290534	-370.923343	-5.347718	
-595.963831	-66.808779	-1883.288		
0.25000	-30.290534	-358.469511	-5.347718	
-575.618197	-68.182000	-1896.934		
0.50000	-30.290534	-346.300384	-5.347718	
-555.857316	-70.768113	-1910.402		
0.75000	-30.290534	-334.668674	-5.347718	
-537.309696	-74.592946	-1923.950		
1.00000	-30.290534	-323.777656	-5.347718	
-521.036769	-79.382616	-1937.594		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1586

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	10.508156	32.864452	3.297211	
28.917843	7.117324	675.802313		
0.25000	10.508156	32.924706	3.297211	
29.070781	5.988379	748.238350		
0.50000	10.508156	32.991482	3.297211	
29.241355	5.140747	821.367752		
0.75000	10.508156	33.063656	3.297211	
29.426913	4.540948	896.804088		
1.00000	10.508156	33.139473	3.297211	
29.622963	4.108409	973.754064		

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-10.281670	-94.599081	-1.134035	
-214.214503	-26.685727	-635.660933		
0.25000	-10.281670	-94.513413	-1.134035	
-214.046659	-27.449266	-641.999064		
0.50000	-10.281670	-94.429810	-1.134035	
-213.883988	-28.582363	-648.358237		
0.75000	-10.281670	-94.349969	-1.134035	
-213.730688	-30.667855	-654.719702		
1.00000	-10.281670	-94.275238	-1.134035	
-213.590840	-33.375539	-661.096623		

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	14.795454	80.191945	3.318175	
113.978799	19.144924	1590.468		
0.25000	14.795454	80.197972	3.318175	
113.994111	17.357504	1735.563		
0.50000	14.795454	80.204652	3.318175	
114.011188	18.720820	1892.624		
0.75000	14.795454	80.211862	3.318175	
114.029766	18.985972	2065.328		
1.00000	14.795454	80.219456	3.318175	
114.049395	19.551849	2246.171		

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-12.999350	-232.423620	-2.641751	
-349.469858	-31.830582	-1334.367		
0.25000	-12.999350	-232.411051	-2.641751	
-349.453047	-31.573033	-1335.958		
0.50000	-12.999350	-232.406689	-2.641751	
-349.436755	-31.830440	-1337.520		
0.75000	-12.999350	-232.398702	-2.641751	
-349.421401	-32.885241	-1339.085		
1.00000	-12.999350	-232.391227	-2.641751	
-349.407392	-34.593698	-1340.643		

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	27.768300	98.139474	8.274271	
159.762580	38.290924	1872.110		
0.25000	27.768300	98.144899	8.274271	
159.776361	34.901974	2048.497		
0.50000	27.768300	98.150910	8.274271	
159.791731	32.142199	2235.848		
0.75000	27.768300	98.157399	8.274271	
159.808450	29.876497	2437.716		
1.00000	27.768300	98.164234	8.274271	
159.826116	28.011096	2647.152		

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-25.148492	-261.644508	-2.988517	
-525.496111	-57.530775	-1743.384		
0.25000	-25.148492	-261.636796	-2.988517	
-525.480982	-59.727819	-1752.769		
0.50000	-25.148492	-261.629270	-2.988517	
-525.466318	-62.934738	-1762.114		
0.75000	-25.148492	-261.622082	-2.988517	
-525.452500	-67.325681	-1771.547		
1.00000	-25.148492	-261.615355	-2.988517	
-525.439892	-72.659653	-1759.668		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1587

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	33.239088	155.432355	7.759062	
320.171947	61.977103	2535.242		
0.25000	33.239088	168.535722	7.759062	
328.451784	61.109950	2799.269		
0.50000	33.239088	182.997132	7.759062	
354.991495	61.186386	3043.693		
0.75000	33.239088	198.520662	7.759062	
383.625264	62.089768	3270.373		
1.00000	33.239088	214.748363	7.759062	
411.966918	63.670631	3475.053		

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-29.954607	-440.670878	-7.269740	
-513.531323	-67.878913	-2019.853		
0.25000	-29.954607	-421.868707	-7.269740	
-492.190739	-67.083476	-2017.110		
0.50000	-29.954607	-403.453384	-7.269740	
-471.392692	-67.378207	-2014.520		
0.75000	-29.954607	-385.830861	-7.269740	
-469.515248	-68.819416	-2011.813		
1.00000	-29.954607	-369.326262	-7.269740	
-469.532251	-71.236160	-1991.345		

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	17.402654	116.096766	1.564342	
437.069452	51.055035	1557.676		
0.25000	17.402654	132.470100	1.564342	
432.678650	54.124773	1724.380		
0.50000	17.402654	150.461089	1.564342	
428.287848	58.235240	1857.098		
0.75000	17.402654	169.636021	1.564342	
423.897046	63.300693	1955.071		
1.00000	17.402654	189.491054	1.564342	
419.507063	69.077320	2019.589		

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-15.850120	-330.128758	-8.345139	
-70.788007	-35.219941	-879.780874		
0.25000	-15.850120	-306.325311	-8.345139	
-70.788007	-30.640747	-861.641087		
0.50000	-15.850120	-282.951966	-8.345139	
-70.788007	-26.507981	-844.112482		
0.75000	-15.850120	-260.521663	-8.345139	
-70.788007	-22.712756	-826.402117		
1.00000	-15.850120	-239.503468	-8.345139	
-70.788007	-19.212776	-808.753478		

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	22.783362	172.525225	2.151171	
544.322896	71.415818	2959.359		
0.25000	22.783362	191.522839	2.151171	
543.837129	75.813655	2695.989		
0.50000	22.783362	212.414655	2.151171	
543.351361	81.425753	2904.352		
0.75000	22.783362	234.725318	2.151171	
542.865593	88.151448	3089.363		
1.00000	22.783362	257.874821	2.151171	
542.379825	95.871793	3243.035		

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-19.672628	-485.416498	-11.078549	
-176.112852	-47.738520	-1535.193		
0.25000	-19.672628	-457.877477	-11.078549	
-176.112852	-41.816478	-1507.548		
0.50000	-19.672628	-430.862082	-11.078549	
-176.112852	-36.473951	-1480.332		
0.75000	-19.672628	-404.951297	-11.078549	
-176.112852	-31.622089	-1452.929		
1.00000	-19.672628	-380.668302	-11.078549	
-176.112852	-27.256254	-1420.144		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1588

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	27.186825	182.971009	3.372918	
499.230120	66.060383	2852.068		
0.25000	27.186825	200.390519	3.372918	
499.314700	69.516403	3136.512		
0.50000	27.186825	219.548577	3.372918	
499.399279	74.130646	3395.161		
0.75000	27.186825	240.011947	3.372918	
499.483859	79.729257	3631.150		
1.00000	27.186825	261.250843	3.372918	
499.568438	86.253983	3839.524		

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-23.938868	-527.916507	-10.452515	
-315.721195	-54.793359	-1934.090		
0.25000	-23.938868	-502.675381	-10.452515	
-315.721195	-49.662201	-1914.847		
0.50000	-23.938868	-477.916775	-10.452515	
-315.721195	-45.282743	-1895.978		
0.75000	-23.938868	-454.172191	-10.452515	
-315.721195	-41.744900	-1876.944		
1.00000	-23.938868	-431.918912	-10.452515	
-315.721195	-38.943678	-1857.936		

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	33.625452	174.530013	6.711087	
455.764535	67.685480	2771.535		
0.25000	33.625452	189.051859	6.711087	
455.852661	68.430294	3050.909		
0.50000	33.625452	205.023108	6.711087	
455.940788	70.402608	3309.271		
0.75000	33.625452	222.082680	6.711087	
456.028915	73.405374	3549.284		
1.00000	33.625452	239.788985	6.711087	
456.117041	77.340279	3766.604		

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-30.513513	-490.185435	-9.328263	
-439.322424	-70.904749	-2070.098		
0.25000	-30.513513	-469.143395	-9.328263	
-439.322424	-68.182000	-2059.523		
0.50000	-30.513513	-448.503703	-9.328263	
-439.322424	-66.502126	-2049.291		
0.75000	-30.513513	-428.709393	-9.328263	
-439.322424	-65.997540	-2038.957		
1.00000	-30.513513	-410.158275	-9.328263	
-439.322424	-66.471931	-2028.641		

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	24.211136	161.765280	8.591510	
518.115110	65.786055	2959.359		
0.25000	24.211136	187.278235	8.591510	
518.115110	68.881548	3159.570		
0.50000	24.211136	216.343027	8.591510	
518.115110	73.238243	3344.668		
0.75000	24.211136	247.268211	8.591510	
518.115110	78.991534	3518.989		
1.00000	24.211136	279.398858	8.591510	
518.115110	85.944297	3678.348		

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-22.962294	-493.185754	-8.368663	
-525.423599	-59.597541	-1821.517		
0.25000	-22.962294	-463.415706	-8.368663	
-493.601822	-62.643121	-1538.115		
0.50000	-22.962294	-434.365450	-8.368663	
-478.920725	-67.028211	-1454.714		
0.75000	-22.962294	-406.504835	-8.368663	
-478.891951	-72.776954	-1371.399		
1.00000	-22.962294	-380.413915	-8.368663	
-478.872084	-79.707373	-1288.119		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1589

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	33.968110	182.971009	11.172760	
544.322896	71.415818	2852.068		
0.25000	33.968110	200.390519	11.172760	
543.837129	75.813655	3136.512		
0.50000	33.968110	219.548577	11.172760	
543.351361	81.425753	3395.161		
0.75000	33.968110	240.011947	11.172760	
542.865593	88.151448	3631.150		
1.00000	33.968110	261.250843	11.172760	
542.379825	95.871793	3839.524		

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-30.513513	-527.916507	-11.078549	
-595.963831	-70.904749	-2070.098		
0.25000	-30.513513	-502.675381	-11.078549	
-575.618197	-68.182000	-2059.523		
0.50000	-30.513513	-477.916775	-11.078549	
-561.877092	-74.010227	-2049.291		
0.75000	-30.513513	-454.172191	-11.078549	
-561.435824	-81.397370	-2038.957		
1.00000	-30.513513	-431.918912	-11.078549	
-561.033286	-89.710987	-2028.641		

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	33.968110	182.971009	11.172760	
544.322896	71.415818	2959.359		
0.25000	33.968110	200.390519	11.172760	
543.837129	75.813655	3159.570		
0.50000	33.968110	219.548577	11.172760	
543.351361	81.425753	3395.161		
0.75000	33.968110	247.268211	11.172760	
542.865593	88.151448	3631.150		
1.00000	33.968110	279.398858	11.172760	
542.379825	95.871793	3839.524		

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-30.513513	-527.916507	-11.078549	
-595.963831	-70.904749	-2070.098		
0.25000	-30.513513	-502.675381	-11.078549	
-575.618197	-68.182000	-2059.523		
0.50000	-30.513513	-477.916775	-11.078549	
-561.877092	-74.010227	-2049.291		
0.75000	-30.513513	-454.172191	-11.078549	
-561.435824	-81.397370	-2038.957		
1.00000	-30.513513	-431.918912	-11.078549	
-561.033286	-89.710987	-2028.641		

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	33.968110	182.971009	11.172760	
544.322896	71.415818	2959.359		
0.25000	33.968110	200.390519	11.172760	
543.837129	75.813655	3159.570		
0.50000	33.968110	219.548577	11.172760	
543.351361	81.425753	3395.161		
0.75000	33.968110	247.268211	11.172760	
542.865593	88.151448	3631.150		
1.00000	33.968110	279.398858	11.172760	
542.379825	95.871793	3839.524		

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-30.513513	-527.916507	-11.078549	
-595.963831	-70.904749	-2070.098		
0.25000	-30.513513	-502.675381	-11.078549	
-575.618197	-68.182000	-2059.523		
0.50000	-30.513513	-477.916775	-11.078549	
-561.877092	-74.010227	-2049.291		
0.75000	-30.513513	-454.172191	-11.078549	
-561.435824	-81.397370	-2038.957		
1.00000	-30.513513	-431.918912	-11.078549	
-561.033286	-89.710987	-2028.641		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1590

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 131 ========== LENGTH = 4.928188

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	12.458589	20.548199	4.443362	
45.086919	15.745874	495.997900		
0.25000	12.458589	20.560687	4.443362	
45.116783	13.329343	515.691957		
0.50000	12.458589	20.574116	4.443362	
45.149249	10.934181	536.039440		
0.75000	12.458589	20.588267	4.443362	
45.183747	8.585785	557.230173		
1.00000	12.458589	20.604362	4.443362	
45.224629	6.290844	578.928594		

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.948964	-23.323048	-1.533231	
-125.601148	-48.301183	-396.195292		
0.25000	-11.948964	-23.306867	-1.533231	
-125.560671	-49.368457	-379.078184		
0.50000	-11.948964	-23.292493	-1.533231	
-125.527221	-51.154372	-361.961096		
0.75000	-11.948964	-23.278719	-1.533231	
-125.495306	-53.620193	-344.844020		
1.00000	-11.948964	-23.265736	-1.533231	
-125.465704	-56.709865	-327.726965		

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	20.209606	38.787625	7.233121	
74.574332	18.720083	1061.706		
0.25000	20.209606	38.800109	7.233121	
74.604147	15.466071	1100.142		
0.50000	20.209606	38.813533	7.233121	
74.636564	12.804626	1141.603		
0.75000	20.209606	38.827678	7.233121	
74.671012	10.275760	1185.925		
1.00000	20.209606	38.843765	7.233121	
74.711830	7.812826	1233.329		

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-19.317275	-55.954477	-3.732096	
-242.770670	-80.491033	-744.029961		
0.25000	-19.317275	-55.938304	-3.732096	
-242.730290	-80.605727	-708.796220		
0.50000	-19.317275	-55.923935	-3.732096	
-242.696887	-82.188937	-673.562053		
0.75000	-19.317275	-55.910166	-3.732096	
-242.665019	-85.316113	-638.329897		
1.00000	-19.317275	-55.897246	-3.732096	
-242.635464	-89.781279	-603.096762		

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	21.175715	55.441465	6.948770	
150.732463	20.321043	1853.522		
0.25000	21.175715	55.452701	6.948770	
150.759307	17.099888	1901.993		
0.50000	21.175715	55.464784	6.948770	
150.788494	14.378453	1963.738		
0.75000	21.175715	55.477516	6.948770	
150.819508	11.787382	2038.872		
1.00000	21.175715	55.491996	6.948770	
150.856259	9.321892	2127.199		

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-20.114291	-109.769742	-4.104268	
-343.441180	-74.180582	-1061.446		
0.25000	-20.114291	-109.755185	-4.104268	
-343.404816	-73.544977	-1005.895		
0.50000	-20.114291	-109.742252	-4.104268	
-343.374743	-74.403610	-950.342728		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1591

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000	-20.114291	-109.729858	-4.104268	
-343.346051	-76.927670	-894.790951		
1.00000	-20.114291	-109.718229	-4.104268	
-343.319441	-81.044640	-839.239194		

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	22.630956	121.431829	7.063288	
231.859639	45.654069	2718.500		
0.25000	22.630956	133.090554	7.063288	
254.388598	43.082181	2799.236		
0.50000	22.630956	145.666483	7.063288	
279.514748	41.284984	2879.047		
0.75000	22.630956	158.941280	7.063288	
308.094587	40.172104	2963.522		
1.00000	22.630956	173.729726	7.063288	
341.492965	39.452682	3048.963		

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-21.270905	-254.783692	-5.680251	
-436.848513	-69.414042	-1876.174		
0.25000	-21.270905	-239.906156	-5.680251	
-404.870044	-67.968204	-1156.910		
0.50000	-21.270905	-226.403081	-5.680251	
-377.075033	-67.775223	-1087.657		
0.75000	-21.270905	-213.479104	-5.680251	
-356.967407	-68.960928	-1018.423		
1.00000	-21.270905	-201.381621	-5.680251	
-339.673250	-71.478527	-949.199631		

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.307434	21.632053	2.565748	
46.035114	2.843151	780.099906		
0.25000	7.307434	21.769383	2.565748	
46.363213	2.067102	800.984228		
0.50000	7.307434	21.917065	2.565748	
46.719936	1.768539	828.484167		
0.75000	7.307434	22.072671	2.565748	
47.098997	1.782464	860.074853		
1.00000	7.307434	22.249651	2.565748	
47.548177	1.935416	896.234407		

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.907509	-48.649351	-2.342028	
-143.424185	-28.318701	-421.624360		
0.25000	-6.907509	-48.471429	-2.342028	
-142.979738	-26.863817	-398.247737		
0.50000	-6.907509	-48.313360	-2.342028	
-142.612170	-26.338403	-374.871134		
0.75000	-6.907509	-48.161883	-2.342028	
-142.261500	-26.699624	-351.494660		
1.00000	-6.907509	-48.019753	-2.342028	
-141.936266	-27.740802	-328.118413		

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	10.008311	62.405165	2.907025	
179.473201	14.755127	1937.697		
0.25000	10.008311	62.417650	2.907025	
179.503028	13.935692	1959.553		

```
 0.50000     10.008311     62.431075      2.907025
179.535457     13.779552      2005.978
 0.75000     10.008311     62.445222      2.907025
179.569918     13.847167      2084.130
 1.00000     10.008311     62.461310      2.907025
179.610752     14.100496      2187.263

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.172493  -134.254657   -3.240172
-281.530539   -28.036377  -856.929630
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                    >
                                    1592

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   -9.172493  -134.238482   -3.240172
-281.490135   -25.927624   -805.103498
 0.50000   -9.172493  -134.224112   -3.240172
-281.456719   -24.672657   -754.192241
 0.75000   -9.172493  -134.210341   -3.240172
-281.424840   -24.401965   -703.280996
 1.00000   -9.172493  -134.197421   -3.240172
-281.395274   -25.123263   -652.369772

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    18.513227     72.716733     5.932601
194.982966     21.917176      2172.396
 0.25000    18.513227     72.727969     5.932601
195.009811     19.697275      2208.974
 0.50000    18.513227     72.740052     5.932601
195.038997     18.012549      2268.362
 0.75000    18.513227     72.752784     5.932601
195.070011     16.553809      2357.307
 1.00000    18.513227     72.767264     5.932601
195.106762     15.298198      2469.183

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -17.345400  -141.620679   -4.485120
-356.362243   -62.669264    -1094.166
 0.25000   -17.345400  -141.606122   -4.485120
-356.325879   -61.106378    -1033.586
 0.50000   -17.345400  -141.593189   -4.485120
-356.295806   -60.919040   -973.018238
 0.75000   -17.345400  -141.580796   -4.485120
-356.267114   -62.219134   -912.450914
 1.00000   -17.345400  -141.569167   -4.485120
-356.240504   -64.969713   -851.883609

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    22.720603     152.277634     6.637291
275.192588     56.773897      3109.095
 0.25000    22.720603     170.128066     6.637291
280.949434     54.984265      3211.765
 0.50000    22.720603     189.462763     6.637291
306.187176     54.197063      3302.538
 0.75000    22.720603     209.921705     6.637291
329.641125     54.429890      3386.131
 1.00000    22.720603     232.066725     6.637291
351.019594     55.316597      3460.383

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -21.329424  -327.476880   -6.882754
-374.691400   -61.197888    -1259.786
 0.25000   -21.329424  -305.177394   -6.882754
-353.023495   -58.678650    -1185.425
 0.50000   -21.329424  -284.327395   -6.882754
-328.745955   -57.300098    -1111.073
 0.75000   -21.329424  -264.404829   -6.882754
-315.260520   -57.169161    -1036.767
 1.00000   -21.329424  -245.817271   -6.882754
-315.260520   -58.246068   -962.460182

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    12.714940     145.233850     2.989672
297.643030     66.194526      2068.132
 0.25000    12.714940     167.937353     2.989672
297.643030     67.034280      2159.402
 0.50000    12.714940     192.746360     2.989672
297.643030     68.241618      2216.542
 0.75000    12.714940     219.121429     2.989672
297.643030     70.662325      2239.121
 1.00000    12.714940     246.004342     2.989672
297.643030     74.209023      2230.446
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                    >
                                    1593

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -12.070901  -305.310904   -5.555207
-88.704595   -15.695003   -535.207980
 0.25000   -12.070901  -278.146839   -5.555207
-88.704595   -13.554448   -498.196363
 0.50000   -12.070901  -251.168696   -5.555207
-88.704595   -11.414809   -461.229527
 0.75000   -12.070901  -225.472038   -5.555207
-88.704595    -9.280109   -424.275046
 1.00000   -12.070901  -201.665190   -5.555207
-88.704595    -7.154073   -387.320565

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    16.258520     205.811891     3.993728
415.196344     88.319135      3255.567
 0.25000    16.258520     232.987777     3.993728
415.196344     88.567455      3352.632
 0.50000    16.258520     262.594773     3.993728
415.196344     90.248234      3436.497
 0.75000    16.258520     294.029652     3.993728
415.196344     93.438749      3497.470
 1.00000    16.258520     326.674146     3.993728
415.196344     98.000396      3537.133

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -15.084761  -425.054649   -7.168685
-179.647760   -22.873543   -930.194961
 0.25000   -15.084761  -392.136239   -7.168685
-179.647760   -19.976546   -867.443306
 0.50000   -15.084761  -360.016731   -7.168685
-179.647760   -17.098619   -804.747735
 0.75000   -15.084761  -329.396974   -7.168685
-179.647760   -14.240276   -742.082864
 1.00000   -15.084761  -300.958045   -7.168685
-179.647760   -11.402994   -679.417994

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    19.262239     199.149924     4.703418
421.606656     79.532528      3677.612
 0.25000    19.262239     224.081373     4.703418
421.606656     79.102934      3791.473
 0.50000    19.262239     251.234927     4.703418
421.606656     80.086316      3887.352
 0.75000    19.262239     280.061098     4.703418
421.606656     82.534600      3971.450
 1.00000    19.262239     310.048267     4.703418
421.606656     86.228463      4040.869

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -17.970831  -431.169730   -7.732855
-280.236264   -30.397100    -1210.250
 0.25000   -17.970831  -400.932848   -7.732855
-280.236264   -26.732175    -1132.186
 0.50000   -17.970831  -371.482025   -7.732855
-280.236264   -23.588135    -1054.169
 0.75000   -17.970831  -343.403939   -7.732855
-280.236264   -21.015946   -976.180497
 1.00000   -17.970831  -317.319076   -7.732855
-280.236264   -19.084649   -898.192424

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    23.443846     180.319019     6.507093
375.211272     70.556804      3465.551
 0.25000    23.443846     201.105626     6.507093
375.211272     69.267658      3575.750
 0.50000    23.443846     223.744641     6.507093
375.211272     69.394956      3671.774
 0.75000    23.443846     247.778057     6.507093
375.211272     70.747016      3758.622
 1.00000    23.443846     272.781160     6.507093
375.211272     73.150057      3834.127
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                    >
                                    1594

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -22.027458  -380.252342   -8.067663
-324.839241   -55.377106    -1288.095
 0.25000   -22.027458  -355.041092   -8.067663
-324.839241   -52.018215    -1209.486
 0.50000   -22.027458  -330.486987   -8.067663
-324.839241   -49.673888    -1130.915
 0.75000   -22.027458  -307.077295   -8.067663
-324.839241   -48.461396    -1052.369
 1.00000   -22.027458  -285.329207   -8.067663
-324.839241   -48.335244   -973.823394

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    19.246167     32.122691     5.973671
57.611398     20.644237     738.227091
 0.25000    19.246167     32.129180     5.973671
57.626668     17.613286     768.160358
 0.50000    19.246167     32.136304     5.973671
57.643627     14.674781     798.158982
 0.75000    19.246167     32.143917     5.973671
57.661834     11.858806     828.473958
 1.00000    19.246167     32.151848     5.973671
57.680785      9.249261     858.851089

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -17.136014   -47.018803    -1.870634
-160.434510   -53.933446   -656.777823
 0.25000   -17.136014   -47.010344    -1.870634
-160.416794   -55.855931   -666.855245
 0.50000   -17.136014   -47.002153    -1.870634
-160.399781   -58.139691   -676.933483
 0.75000   -17.136014   -46.994393    -1.870634
-160.383964   -60.864503   -687.018593
 1.00000   -17.136014   -46.987222    -1.870634
-160.369792   -64.054466   -697.098668

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    30.384324     61.386930     8.918047
94.290153     21.591914     1494.298
 0.25000    30.384324     61.393417     8.918047
94.300196     20.955942     1554.434
 0.50000    30.384324     61.400538     8.918047
94.317127     17.626662     1615.043
 0.75000    30.384324     61.408148     8.918047
94.335303     14.632446     1676.556
 1.00000    30.384324     61.416075     8.918047
94.354221     11.911612     1739.371

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -27.958324  -100.317096   -3.985012
-291.916350   -90.728863    -1212.458
 0.25000   -27.958324  -100.308550   -3.985012
-291.898669   -92.253450    -1226.790
 0.50000   -27.958324  -100.300362   -3.985012
-291.881689   -94.721836    -1241.126
 0.75000   -27.958324  -100.292605   -3.985012
-291.865904   -98.456455    -1255.471
 1.00000   -27.958324  -100.285436   -3.985012
-291.851761   -103.116122    -1269.810

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    32.072753     97.918088     8.555472
155.462748     28.661686     2427.566
 0.25000    32.072753     98.104870     8.555472
155.901564     24.963199     2517.678
 0.50000    32.072753     98.309957     8.555472
156.388950     21.855753     2612.466
 0.75000    32.072753     98.529097     8.555472
156.912202     19.131003     2711.835
 1.00000    32.072753     98.757373     8.555472
157.456812     16.650807     2815.295
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                    >
                                    1595

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -28.741739  -175.692799   -4.433674
-382.843937   -85.981832    -1721.923
 0.50000   -28.741739  -175.449286   -4.433674
-382.334974   -86.807198    -1734.789
 0.50000   -28.741739  -175.213491   -4.433674
-381.846205   -88.611936    -1747.664
 0.75000   -28.741739  -174.990125   -4.433674
-381.391802   -91.674868    -1780.538
 1.00000   -28.741739  -174.783678   -4.433674
-380.984705   -95.840683    -1773.411

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    33.540801     157.135586     8.549301
244.558437     56.623205      3152.905
 0.25000    33.540801     166.533377     8.549301
263.745513     54.465549      3282.406
 0.50000    33.540801     176.847702     8.549301
285.201962     52.936555      3402.296
 0.75000    33.540801     187.852267     8.549301
308.263179     51.766257      3514.364
 1.00000    33.540801     199.292392     8.549301
332.199768     51.072734      3615.809

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -29.445237  -302.869218   -6.474894
-460.070521   -80.934546    -1937.796
 0.25000   -29.445237  -290.619244   -6.474894
-438.354725   -80.874619    -1945.747
 0.50000   -29.445237  -278.772361   -6.474894
-417.440741   -81.638687    -1953.660
 0.75000   -29.445237  -267.452058   -6.474894
-398.062831   -83.457286    -1961.604
 1.00000   -29.445237  -257.018060   -6.474894
-380.886776   -86.200165    -1969.564

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    10.480128     36.832105     2.581076
48.106868      4.509543     974.391956
 0.25000    10.480128     36.896967     2.581076
48.259302      3.927435     1012.655
 0.50000    10.480128     36.968185     2.581076
48.428606      3.427811     1051.236
 0.75000    10.480128     37.044283     2.581076
48.610367      3.389045     1090.722
 1.00000    10.480128     37.123554     2.581076
48.799550      3.476358     1132.041

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -10.078634   -71.660285    -2.229210
-148.411299   -33.338916   -661.186466
 0.25000   -10.078634   -71.575723    -2.229210
-148.234488   -32.449328   -664.335564
 0.50000   -10.078634   -71.493842    -2.229210
-148.064693   -32.010924   -667.478942
 0.75000   -10.078634   -71.416278    -2.229210
-147.906836   -32.681440   -670.628666
 1.00000   -10.078634   -71.344588    -2.229210
-147.765410   -33.889075   -673.778263

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    14.819789     98.192714     3.117333
161.814531     20.828715      2246.884
 0.25000    14.819789     98.199203     3.117333
161.829795     20.331961      2313.762
 0.50000    14.819789     98.206327     3.117333
161.846747     20.327255      2392.091
 0.75000    14.819789     98.213949     3.117333
161.864946     20.644179      2485.144
 1.00000    14.819789     98.221869     3.117333
161.883889     21.244047      2589.039
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                    >
                                    1596

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -12.743341  -180.507153   -3.436298
-280.190292   -34.827465    -1340.666
 0.25000   -12.743341  -180.498694   -3.436298
-280.172585   -33.435791    -1342.347
 0.50000   -12.743341  -180.490504   -3.436298
-280.155580   -32.601823    -1344.050
 0.75000   -12.743341  -180.482745   -3.436298
-280.139771   -32.714421    -1345.735
 1.00000   -12.743341  -180.475574   -3.436298
-280.125606   -33.540652    -1347.427

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    27.631392     114.362702     6.963241
187.815592     30.149098      2648.524
 0.25000    27.631392     114.368542     6.963241
187.829329     27.818175      2734.604
 0.50000    27.631392     114.374953     6.963241
187.844586     26.031406      2830.946
 0.75000    27.631392     114.381804     6.963241
187.860965     24.597264      2940.737
 1.00000    27.631392     114.388944     6.963241
187.878014     23.529816      3060.529

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -24.600511   -203.105086   -4.765199
-380.611048   -73.496565    -1759.894
 0.25000   -24.600510   -203.097453   -4.765199
-380.595112   -73.250853    -1760.795
 0.50000   -24.600510   -203.090082   -4.765199
-380.579807   -73.862319    -1761.726
 0.75000   -24.600511   -203.083099   -4.765199
-380.565579   -74.655517    -1763.190
 1.00000   -24.600510   -203.076645   -4.765199
-380.552831   -78.441828    -1771.837

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    32.702449     182.983909     7.615901
272.702418     66.872753      3475.487
 0.25000    32.702449     197.099552     7.615901
281.908578     66.170071      3627.490
 0.50000    32.702449     212.579232     7.615901
306.981925     66.152932      3780.671
 0.75000    32.702449     229.062204     7.615901
333.945599     66.631997      3874.069
 1.00000    32.702449     246.137829     7.615901
361.591791     67.556424      3967.838

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -28.995393   -363.786192   -7.830763
-411.468313   -73.011173    -1991.346
 0.25000   -28.995393   -345.395106   -7.830763
-387.988935   -71.694024    -1988.684
 0.50000   -28.995393   -327.479535   -7.830763
-365.146323   -71.114400    -1985.994
 0.75000   -28.995393   -310.438647   -7.830763
-344.175827   -71.511255    -1983.788
 1.00000   -28.995393   -294.649679   -7.830763
-343.306447   -72.732555    -1987.597

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    16.667548     138.860309     3.135709
310.691295     71.388800      2018.243
 0.25000    16.667548     156.518248     3.135709
306.526731     73.217819      2127.186
 0.50000    16.667548     175.859546     3.135709
302.136168     75.654352      2202.844
 0.75000    16.667548     196.360268     3.135709
297.745604     78.794041      2243.985
 1.00000    16.667548     217.472733     3.135709
293.355040     82.515187      2251.335

 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                    >
                                    1597

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -14.978998   -285.603695   -6.818649
-103.684736   -21.017210   -808.425535
 0.25000   -14.978998   -262.598001   -6.818649
-103.910833   -18.939672   -802.127883
 0.50000   -14.978998   -240.044460   -6.818649
-103.910833   -16.914760   -796.328654
 0.75000   -14.978998   -218.464014   -6.818649
-103.910833   -14.887144   -790.476256
 1.00000   -14.978998   -198.424847   -6.818649
-103.910833   -12.865935   -784.777689

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    21.907660     210.432286     4.365619
421.114660     99.219493      3241.548
 0.25000    21.907660     230.919151     4.365619
420.628937    101.793823      3381.143
 0.50000    21.907660     253.358712     4.365619
420.143195    105.046460      3492.925
 0.75000    21.907660     277.167239     4.365619
419.657454    109.045984      3581.266
 1.00000    21.907660     301.723956     4.365619
419.171713    113.651203      3639.553

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -18.574175   -413.382316   -8.957292
-206.997983   -29.171102    -1419.713
 0.25000   -18.574175   -386.700209   -8.957292
-206.997983   -27.118760    -1409.352
 0.50000   -18.574175   -360.579169   -8.957292
-206.997983   -24.587016    -1398.830
 0.75000   -18.574175   -335.620174   -8.957292
-206.997983   -22.066431    -1388.271
 1.00000   -18.574175   -312.440588   -8.957292
-206.997983   -19.560566    -1378.134

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    26.490657     221.605037     5.042307
417.927396     89.602350      3838.637
 0.25000    26.490657     240.389414     5.042307
418.011968     91.400137      4002.032
 0.50000    26.490657     260.964192     5.042307
418.096543     93.890720      4140.327
 0.75000    26.490657     282.796910     5.042307
418.181118     97.121114      4255.608
 1.00000    26.490657     305.320063     5.042307
418.265693    101.121162      4344.554

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -22.904529   -441.470996   -9.207264
-300.175335   -40.948031    -1857.582
 0.25000   -22.904529   -417.006891   -9.207264
-300.175335   -37.817764    -1852.242
 0.50000   -22.904529   -393.062153   -9.207264
-300.175335   -34.958134    -1846.789
 0.75000   -22.904529   -370.186193   -9.207264
-300.175335   -32.655291    -1841.289
 1.00000   -22.904529   -348.950623   -9.207264
-300.175335   -30.906995    -1835.926

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    32.936541     207.230710     7.231120
379.531293     80.786111      3766.459
 0.25000    32.936541     222.890361     7.231120
379.619412     81.090618      3926.114
 0.50000    32.936541     240.042583     7.231120
379.707534     82.255208      4064.926
 0.75000    32.936541     258.243582     7.231120
379.795655     84.216846      4184.641
 1.00000    32.936541     277.020310     7.231120
379.883777     86.881875      4282.896
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                    >
                                    1598

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -29.405496   -405.967136   -9.325149
-359.121862   -68.494922    -2028.490
 0.25000   -29.405496   -385.572587   -9.325149
-359.121862   -66.106690    -2021.788
 0.50000   -29.405496   -365.611172   -9.325149
-359.121862   -64.388465    -2016.972
 0.75000   -29.405496   -346.540858   -9.325149
-359.121862   -63.625204    -2012.116
 1.00000   -29.405496   -328.838072   -9.325149
-359.121862   -63.642269    -2007.374

 COMB      DB ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    23.443846     205.811891     7.233121
421.606656     88.319135      3677.612
 0.25000    23.443846     232.987777     7.233121
421.606656     88.567455      3791.473
 0.50000    23.443846     262.594773     7.233121
421.606656     90.248234      3887.532
 0.75000    23.443846     294.029652     7.233121
421.606656     93.438749      3971.450
 1.00000    23.443846     326.674146     7.233121
421.606656     98.000396      4040.869

 COMB      DB ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -22.027458   -431.169730   -8.067663
-436.848513   -80.491033    -1288.095
 0.25000   -22.027458   -400.932848   -8.067663
-404.870044   -80.605727    -1209.486
 0.50000   -22.027458   -371.482025   -8.067663
-377.075033   -82.188937    -1130.915
 0.75000   -22.027458   -343.403939   -8.067663
-356.967407   -85.316113    -1052.369
 1.00000   -22.027458   -317.319076   -8.067663
-356.240504   -89.781279   -973.823394

 COMB      DL ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    33.540801     221.605037     8.918047
421.114660     99.219493      3838.637
 0.25000    33.540801     240.389414     8.918047
420.628937    101.793823      4002.032
 0.50000    33.540801     260.964192     8.918047
420.143195    105.046460      4140.327
 0.75000    33.540801     282.796910     8.918047
419.657454    109.045984      4255.608
 1.00000    33.540801     305.320063     8.918047
419.171713    113.651203      4344.554
```

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.445237	-441.470996	-9.325149
-460.070521	-90.728863	-2028.490	
0.25000	-29.445237	-417.006891	-9.325149
-438.354725	-92.253450	-2021.788	
0.50000	-29.445237	-393.062153	-9.325149
-417.440741	-94.721836	-2016.972	
0.75000	-29.445237	-370.186193	-9.325149
-398.062831	-98.456455	-2012.116	
1.00000	-29.445237	-348.950623	-9.325149
-380.984705	-103.116122	-2007.374	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	33.540801	221.605037	8.918047
421.606656	99.219493	3838.637	
0.25000	33.540801	240.389414	8.918047
421.606656	101.793823	4002.032	
0.50000	33.540801	262.594773	8.918047
421.606656	105.046460	4140.327	
0.75000	33.540801	294.029652	8.918047
421.606656	109.045984	4255.608	
1.00000	33.540801	326.674146	8.918047
421.606656	113.651203	4344.554	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1599

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.445237	-441.470996	-9.325149
-460.070521	-90.728863	-2028.490	
0.25000	-29.445237	-417.006891	-9.325149
-438.354725	-92.253450	-2021.788	
0.50000	-29.445237	-393.062153	-9.325149
-417.440741	-94.721836	-2016.972	
0.75000	-29.445237	-370.186193	-9.325149
-398.062831	-98.456455	-2012.116	
1.00000	-29.445237	-348.950623	-9.325149
-380.984705	-103.116122	-2007.374	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	33.540801	221.605037	8.918047
421.606656	99.219493	3838.637	
0.25000	33.540801	240.389414	8.918047
421.606656	101.793823	4002.032	
0.50000	33.540801	262.594773	8.918047
421.606656	105.046460	4140.327	
0.75000	33.540801	294.029652	8.918047
421.606656	109.045984	4255.608	
1.00000	33.540801	326.674146	8.918047
421.606656	113.651203	4344.554	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.445237	-441.470996	-9.325149
-460.070521	-90.728863	-2028.490	
0.25000	-29.445237	-417.006891	-9.325149
-438.354725	-92.253450	-2021.788	
0.50000	-29.445237	-393.062153	-9.325149
-417.440741	-94.721836	-2016.972	
0.75000	-29.445237	-370.186193	-9.325149
-398.062831	-98.456455	-2012.116	
1.00000	-29.445237	-348.950623	-9.325149
-380.984705	-103.116122	-2007.374	

ELEM 132 ========== LENGTH = 4.928029

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.064389	19.036856	2.870906
42.191078	7.213375	579.240888	
0.25000	12.064389	19.049620	2.870906
42.220864	5.477062	578.424547	
0.50000	12.064389	19.063315	2.870906
42.253402	3.774696	578.480599	
0.75000	12.064389	19.077698	2.870906
42.287925	2.190548	579.208137	
1.00000	12.064389	19.093974	2.870906
42.328771	6.054451	580.749407	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.478444	-18.068217	-3.297186
-42.991101	-57.443366	-327.677749	
0.25000	-11.478444	-18.051941	-3.297186
-42.950267	-56.050194	-305.837110	
0.50000	-11.478444	-18.037552	-3.297186
-42.915758	-55.342812	-296.592982	
0.75000	-11.478444	-18.023850	-3.297186
-42.883231	-55.418358	-319.714656	
1.00000	-11.478444	-18.011077	-3.297186
-42.853483	-56.180348	-342.836333	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.536811	38.749547	5.306858
106.161205	9.012902	1233.839	
0.25000	19.536811	38.762306	5.306858
106.190921	7.172600	1230.194	
0.50000	19.536811	38.776996	5.306858
106.223410	5.381172	1228.818	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1600

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	19.536811	38.790375	5.306858
106.257883	6.327875	1231.621	
1.00000	19.536811	38.806642	5.306858
106.298666	7.839921	1236.817	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.549425	-37.851107	-5.980600
-107.363800	-90.890307	-603.024180	
0.25000	-18.549425	-37.834840	-5.980600
-107.323029	-88.085485	-561.371592	
0.50000	-18.549425	-37.820456	-5.980600
-107.288570	-86.749584	-542.525412	
0.75000	-18.549425	-37.806759	-5.980600
-107.256092	-87.108488	-586.567891	
1.00000	-18.549425	-37.793990	-5.980600
-107.226414	-88.926713	-630.610445	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.428524	76.109701	5.374598
204.752651	10.693931	2127.713	
0.25000	20.428524	76.121186	5.374598
204.779411	8.200546	2108.731	
0.50000	20.428524	76.133508	5.374598
204.808663	6.491752	2102.265	
0.75000	20.428524	76.146450	5.374598
204.839699	7.502135	2110.896	
1.00000	20.428524	76.161092	5.374598
204.876418	9.557378	2132.227	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.302253	-75.805177	-6.045123
-205.852910	-81.938918	-839.192633	
0.25000	-19.302253	-75.790535	-6.045123
-205.816202	-78.869868	-778.629932	
0.50000	-19.302253	-75.777588	-6.045123
-205.785178	-77.458844	-749.042101	
0.75000	-19.302253	-75.765260	-6.045123
-205.755937	-77.878824	-812.931025	
1.00000	-19.302253	-75.753767	-6.045123
-205.729211	-79.968456	-876.819951	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.821001	155.184039	6.349992
244.562794	41.111962	3049.351	
0.25000	21.821001	167.127285	6.349992
266.745371	38.316747	3048.629	
0.50000	21.821001	179.976275	6.349992
292.922048	36.547109	3045.550	
0.75000	21.821001	193.492307	6.349992
320.655452	37.650713	3051.141	
1.00000	21.821001	208.469404	6.349992
353.629225	39.864731	3054.733	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.430462	-208.734688	-6.781239
-353.916183	-72.640622	-949.195407	
0.25000	-20.430462	-193.757252	-6.781239
-320.989102	-69.429730	-878.104388	
0.50000	-20.430462	-180.235868	-6.781239
-293.269016	-68.019764	-841.238942	
0.75000	-20.430462	-167.380078	-6.781239
-267.103334	-68.928557	-916.116259	
1.00000	-20.430462	-155.428335	-6.781239
-245.043060	-71.226989	-990.994994	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.026059	29.827981	2.409262
93.013113	2.002078	896.406369	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1601

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	7.026059	29.968350	2.409262
93.340182	2.131105	889.522641	
0.50000	7.026059	30.118952	2.409262
93.697698	2.262282	886.308728	
0.75000	7.026059	30.277132	2.409262
94.077035	2.399640	890.434648	
1.00000	7.026059	30.456095	2.409262
94.525821	2.539106	898.287668	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.622220	-30.965516	-2.630326
-94.869496	-28.014989	-328.106061	
0.25000	-6.622220	-30.786555	-2.630326
-94.420842	-26.613430	-303.781169	
0.50000	-6.622220	-30.628313	-2.630326
-94.041655	-25.960649	-291.413002	
0.75000	-6.622220	-30.477632	-2.630326
-93.684266	-26.305853	-317.056371	
1.00000	-6.622220	-30.337166	-2.630326
-93.357616	-27.383359	-342.699744	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.604457	94.770847	3.052465
234.143898	14.621181	2127.840	
0.25000	9.604457	94.783608	3.052465
234.143831	13.594129	2147.883	
0.50000	9.604457	94.797299	3.052465
234.176333	13.606000	2131.683	
0.75000	9.604457	94.811679	3.052465
234.210818	13.907650	2149.781	
1.00000	9.604457	94.827949	3.052465
234.251617	14.793265	2191.378	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.794368	-95.957868	-3.265215
-234.395122	-25.369683	-652.392963	
0.25000	-8.794368	-95.941598	-3.265215
-234.354335	-23.447440	-602.233018	
0.50000	-8.794368	-95.927213	-3.265215
-234.319864	-22.712648	-575.217972	
0.75000	-8.794368	-95.913515	-3.265215
-234.287374	-23.286347	-627.972263	
1.00000	-8.794368	-95.900745	-3.265215
-234.257678	-24.846586	-680.748496	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.844123	100.896295	5.102858
249.053152	16.615787	2469.586	
0.25000	17.844123	100.907779	5.102858
249.079913	14.623275	2433.350	
0.50000	17.844123	100.920101	5.102858
249.109164	13.736699	2418.595	
0.75000	17.844123	100.933043	5.102858
249.140201	14.195270	2435.655	
1.00000	17.844123	100.947686	5.102858
249.176919	15.640243	2474.391	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.645883	-101.023099	-5.613388
-249.828172	-65.729353	-851.867266	
0.25000	-16.645883	-101.008457	-5.613388
-249.791464	-62.835824	-788.729492	
0.50000	-16.645883	-100.995510	-5.613388
-249.760439	-61.601117	-756.542649	
0.75000	-16.645883	-100.983181	-5.613388
-249.731199	-62.213618	-823.075613	
1.00000	-16.645883	-100.971689	-5.613388
-249.704473	-64.318119	-889.610333	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1602

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.884322	192.716641	6.856349
263.368224	57.092970	3460.531	
0.25000	21.884322	211.058145	6.856349
269.524337	54.315864	3476.787	
0.50000	21.884322	230.864341	6.856349
294.674188	53.006737	3479.029	
0.75000	21.884322	251.741881	6.856349
318.068686	53.680748	3479.388	
1.00000	21.884322	274.217079	6.856349
339.388673	55.816971	3466.175	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.488555	-274.882645	-7.087163
-339.312199	-59.488113	-962.477508	
0.25000	-20.488555	-252.405487	-7.087163
-317.994285	-56.227236	-888.733545	
0.50000	-20.488555	-231.519854	-7.087163
-294.593970	-54.737541	-849.258616	
0.75000	-20.488555	-211.702982	-7.087163
-269.434158	-55.934217	-926.870995	
1.00000	-20.488555	-193.348063	-7.087163
-263.408022	-58.377669	-1004.485	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.228039	171.619618	4.589115
192.145763	75.382513	2229.821	
0.25000	12.228039	195.088206	4.589115
192.145763	73.343571	2281.423	
0.50000	12.228039	220.632816	4.589115
192.145763	72.465302	2297.051	
0.75000	12.228039	247.665320	4.589115
192.145763	72.924278	2282.519	
1.00000	12.228039	275.112524	4.589115
192.145763	74.546264	2232.347	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.607500	-276.036094	-4.244233
-191.154203	-87.250633	-3873.661453	
0.25000	-11.607500	-248.583487	-4.244233
-191.154203	-6.766674	-354.778827	
0.50000	-11.607500	-221.540372	-4.244233
-191.154203	-5.881769	-335.192017	
0.75000	-11.607500	-195.981510	-4.244233
-191.154203	-7.062724	-369.378274	
1.00000	-11.607500	-172.089743	-4.244233
-191.154203	-8.247174	-403.564893	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.632652	250.841857	5.929107
297.393689	99.593096	3536.504	
0.25000	15.632652	278.884890	5.929107
297.393689	97.072696	3571.357	
0.50000	15.632652	309.324141	5.929107
297.393689	96.007034	3577.327	
0.75000	15.632652	341.501414	5.929107
297.393689	96.585292	3573.341	
1.00000	15.632652	374.738050	5.929107
297.393689	98.599306	3540.919	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.511221	-376.260336	-5.523423
-296.105747	-12.749437	-679.497054	
0.25000	-14.511221	-343.018293	-5.523423
-296.105747	-10.699738	-623.265248	
0.50000	-14.511221	-310.828230	-5.523423
-296.105747	-9.763212	-589.968923	
0.75000	-14.511221	-280.372158	-5.523423
-296.105747	-11.455140	-648.971954	
1.00000	-14.511221	-252.307877	-5.523423
-296.105747	-13.163133	-707.977352	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1603

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.500697	255.596479	6.538432
354.331383	87.258887	4040.413	
0.25000	18.500697	281.318992	6.538432
354.331383	84.808979	4064.801	
0.50000	18.500697	309.231618	6.538432
354.331383	84.024055	4068.565	
0.75000	18.500697	338.735266	6.538432
354.331383	84.736997	4067.411	
1.00000	18.500697	369.261680	6.538432
354.331383	87.059260	4046.096	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.264609	-371.109255	-6.305440
-353.373912	-17.488809	-860.539179	
0.25000	-17.264609	-337.392685	-6.305440
-353.373912	-20.045143	-936.510508	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.561978	226.448025	7.490989
335.445711	74.997997	3833.941	
0.25000	22.561978	247.894032	7.490989
335.445711	72.016746	3853.753	
0.50000	22.561978	271.165775	7.490989
335.445711	71.228551	3856.743	
0.75000	22.561978	295.763903	7.490989
335.445711	71.939487	3856.451	
1.00000	22.561978	321.216485	7.490989
335.445711	73.998765	3839.798	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.158039	-322.326424	-7.541312
-335.053206	-49.728018	-973.856438	
0.25000	-21.158039	-296.869369	-7.541312
-335.053206	-46.349649	-897.872879	
0.50000	-21.158039	-272.261873	-7.541312
-335.053206	-44.728686	-856.201015	
0.75000	-21.158039	-248.977283	-7.541312
-335.053206	-46.222533	-936.121246	
1.00000	-21.158039	-227.515160	-7.541312
-335.053206	-48.823461	-1016.043	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.782124	34.715637	3.760955
69.933833	10.472389	859.249224	
0.25000	18.782124	34.722489	3.760955
69.948543	8.976016	862.651777	
0.50000	18.782124	34.729961	3.760955
69.964903	7.817204	866.236600	
0.75000	18.782124	34.737895	3.760955
69.982481	7.993824	869.815130	
1.00000	18.782124	34.746125	3.760955
70.000784	8.895790	873.641457	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.603345	-36.189711	-3.938129
-70.833689	-65.134658	-697.262926	
0.25000	-16.603345	-36.181473	-3.938129
-70.815403	-63.649944	-698.839277	
0.50000	-16.603345	-36.173528	-3.938129
-70.797829	-62.792685	-700.414921	
0.75000	-16.603345	-36.166047	-3.938129
-70.781483	-62.664992	-701.991517	
1.00000	-16.603345	-36.159183	-3.938129
-70.766775	-63.408809	-703.568125	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1604

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.654372	70.744814	6.328194
142.250849	13.385442	1740.042	
0.25000	29.654372	70.751663	6.328194
142.265531	11.790941	1745.980	
0.50000	29.654372	70.759133	6.328194
142.281861	10.600106	1752.363	
0.75000	29.654372	70.767064	6.328194
142.299407	10.867145	1759.001	
1.00000	29.654372	70.775291	6.328194
142.317677	11.994879	1766.152	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.099341	-73.689481	-6.630028
-143.471002	-104.348148	-1270.049	
0.25000	-27.099341	-73.681246	-6.630028
-143.452749	-101.978633	-1272.991	
0.50000	-27.099341	-73.673304	-6.630028
-143.435207	-100.675437	-1275.932	
0.75000	-27.099341	-73.665826	-6.630028
-143.418891	-100.847312	-1278.875	
1.00000	-27.099341	-73.658974	-6.630028
-143.404211	-102.368115	-1281.821	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.390192	125.355605	6.401279
225.211114	18.333312	2815.985	
0.25000	31.390192	125.552858	6.401279
225.633738	16.464158	2818.749	
0.50000	31.390192	125.767955	6.401279
226.103832	15.202923	2825.487	
0.75000	31.390192	126.006214	6.401279
226.608931	15.841497	2836.900	
1.00000	31.390192	126.233255	6.401279
227.134867	17.589658	2852.330	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.906333	-130.579495	-6.733073
-228.261900	-96.832053	-1773.626	
0.25000	-27.906333	-130.342360	-6.733073
-227.736460	-94.354746	-1777.766	
0.50000	-27.906333	-130.113659	-6.733073
-227.231479	-93.152212	-1781.919	
0.75000	-27.906333	-129.898310	-6.733073
-226.761806	-93.480554	-1786.077	
1.00000	-27.906333	-129.700730	-6.733073
-226.339226	-95.331966	-1790.248	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	32.749601	195.436657	7.449036
272.600532	53.110241	3616.212	
0.25000	32.749601	205.391108	7.449036
290.761109	51.324469	3640.377	
0.50000	32.749601	216.237221	7.449036
311.181070	50.200981	3655.122	
0.75000	32.749601	227.735648	7.449036
333.154868	50.670827	3661.138	
1.00000	32.749601	239.638385	7.449036
355.956066	52.214185	3656.519	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.506739	-244.645713	-7.711210
-356.619556	-87.697754	-1969.675	
0.25000	-28.506739	-232.737295	-7.711210
-333.841434	-85.303965	-1974.343	
0.50000	-28.506739	-221.220400	-7.711210
-311.883684	-84.130704	-1979.009	
0.75000	-28.506739	-210.363346	-7.711210
-291.498810	-84.527557	-1983.694	
1.00000	-28.506739	-200.385254	-7.711210
-273.326400	-86.204119	-1988.379	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1605

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.253771	49.283964	2.504903
92.765870	3.547664	1132.309	
0.25000	10.253771	49.352461	2.504903
92.912685	3.563810	1134.630	
0.50000	10.253771	49.427155	2.504903
93.075987	3.711566	1138.832	
0.75000	10.253771	49.506465	2.504903
93.251448	3.863922	1141.523	
1.00000	10.253771	49.588733	2.504903
93.434149	4.185459	1146.046	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.787343	-51.431438	-2.627244
-93.691033	-33.867328	-673.834321	
0.25000	-9.787343	-51.349091	-2.627244
-93.508504	-32.882714	-675.449531	
0.50000	-9.787343	-51.269673	-2.627244
-93.333084	-32.379752	-677.063541	
0.75000	-9.787343	-51.194892	-2.627244
-93.169928	-32.864341	-678.684584	
1.00000	-9.787343	-51.126282	-2.627244
-93.023129	-33.880384	-680.315535	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.567190	132.391023	3.366555
220.925216	21.660708	2589.302	
0.25000	14.567190	132.397873	3.366555
220.939919	21.205870	2578.220	
0.50000	14.567190	132.405345	3.366555
220.956272	21.222357	2577.546	
0.75000	14.567190	132.413278	3.366555
220.973842	21.644310	2591.948	
1.00000	14.567190	132.421508	3.366555
220.992137	22.618241	2616.753	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.394584	-136.122960	-3.525636
-221.234500	-33.567293	-1347.454	
0.25000	-12.394584	-136.114723	-3.525636
-221.216222	-32.412151	-1350.675	
0.50000	-12.394584	-136.106779	-3.525636
-221.198656	-32.033508	-1353.896	
0.75000	-12.394584	-136.098299	-3.525636
-221.182318	-32.602072	-1357.127	
1.00000	-12.394584	-136.092436	-3.525636
-221.167617	-33.875833	-1360.384	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.059572	148.118548	5.855931
256.998064	24.920289	3061.075	
0.25000	27.059572	148.124713	5.855931
257.011297	23.463323	3053.813	
0.50000	27.059572	148.131438	5.855931
257.026014	22.752669	3056.080	
0.75000	27.059572	148.138578	5.855931
257.041827	23.134211	3071.924	
1.00000	27.059572	148.145984	5.855931
257.058293	24.628353	3097.333	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.881027	-152.564705	-6.139137
-257.823235	-79.271371	-1771.981	
0.25000	-23.881027	-152.557292	-6.139137
-257.806784	-77.067820	-1776.171	
0.50000	-23.881027	-152.550142	-6.139137
-257.790975	-76.057582	-1780.357	
0.75000	-23.881027	-152.543410	-6.139137
-257.776271	-76.534593	-1784.553	
1.00000	-23.881027	-152.537233	-6.139137
-257.763040	-78.359118	-1788.770	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.877109	227.208352	7.743522
274.399258	69.793824	3967.997	
0.25000	31.877109	242.232780	7.743522
282.434650	68.167289	4008.262	
0.50000	31.877109	258.580063	7.743522
305.530884	67.304471	4027.835	
0.75000	31.877109	275.850383	7.743522
330.437150	67.606787	4028.626	
1.00000	31.877109	293.706947	7.743522
356.130406	69.022161	4008.693	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.022653	-298.841288	-7.943618
-356.365566	-74.375294	-1987.621	
0.25000	-28.022653	-280.994624	-7.943618
-330.711852	-72.099587	-1992.411	
0.50000	-28.022653	-263.675502	-7.943618
-305.788490	-71.961469	-1997.170	
0.75000	-28.022653	-247.309881	-7.943618
-282.766039	-71.473326	-2001.967	
1.00000	-28.022653	-232.248357	-7.943618
-274.834196	-73.102821	-2006.756	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.051789	164.261794	5.024998
199.677280	84.337403	2250.783	
0.25000	16.051789	183.238133	5.024998
199.261382	83.107437	2306.419	
0.50000	16.051789	203.831191	5.024998
197.672548	82.490084	2328.022	
0.75000	16.051789	225.513972	5.024998
194.823990	82.607508	2314.498	
1.00000	16.051789	247.725364	5.024998
190.809640	83.334902	2266.813	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.320819	-249.953461	-4.954106
-190.291803	-14.529635	-784.611330	
0.25000	-14.320819	-227.722172	-4.954106
-194.266328	-13.733614	-786.545372	
0.50000	-14.320819	-205.993195	-4.954106
-197.067956	-13.162804	-788.518416	
0.75000	-14.320819	-185.380837	-4.954106
-198.609781	-13.350469	-790.531474	
1.00000	-14.320819	-166.355746	-4.954106
-198.985854	-13.539051	-792.582982	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.182811	254.323783	6.698314
308.507071	116.020520	3638.930	
0.25000	21.182811	276.292610	6.698314
308.507071	114.779637	3687.382	
0.50000	21.182811	300.137738	6.698314
308.486675	114.131146	3706.665	
0.75000	21.182811	325.270491	6.698314
308.014306	114.294999	3701.524	
1.00000	21.182811	351.059494	6.698314
307.528581	115.110936	3667.015	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.783249	-354.935624	-6.640246
-306.821373	-21.675969	-1377.919	
0.25000	-17.783249	-329.125671	-6.640246
-307.307099	-20.636191	-1381.276	
0.50000	-17.783249	-303.939271	-6.640246
-307.772436	-20.009848	-1384.681	
0.75000	-17.783249	-280.072405	-6.640246
-307.785788	-20.367347	-1388.133	
1.00000	-17.783249	-258.049300	-6.640246
-307.785788	-20.741567	-1392.112	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.731746	276.515128	7.259120
353.837826	103.340649	4344.158	
0.25000	25.731746	296.652852	7.259120
353.837826	101.738776	4392.065	
0.50000	25.731746	318.511017	7.259120
353.839124	101.279862	4413.082	
0.75000	25.731746	341.552640	7.259120
353.923589	101.692383	4410.853	
1.00000	25.731746	365.200613	7.259120
354.008161	103.030828	4381.612	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.037599	-370.321367	-7.293547
-353.529942	-32.621429	-1835.761	
0.25000	-22.037599	-346.646859	-7.293547
-353.445370	-30.981103	-1840.175	
0.50000	-22.037599	-323.563612	-7.293547
-353.362096	-30.125354	-1844.658	
0.75000	-22.037599	-301.678196	-7.293547
-353.361987	-30.770510	-1849.203	
1.00000	-22.037599	-281.498363	-7.293547
-353.361987	-31.930698	-1853.757	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	32.042551	256.432154	8.367484
347.706442	89.280957	4282.817	
0.25000	32.042551	273.219844	8.367484
347.706442	87.490232	4325.065	
0.50000	32.042551	291.441787	8.367484
347.707900	86.908072	4345.011	
0.75000	32.042551	310.650417	8.367484
347.795800	87.296078	4345.565	
1.00000	32.042551	330.364687	8.367484
347.883919	88.664533	4323.750	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.367140	-335.663199	-8.510178
-347.840828	-65.475338	-2007.294	
0.25000	-28.367140	-315.926812	-8.510178
-347.752709	-63.284996	-2007.038	
0.50000	-28.367140	-296.683485	-8.510178
-347.666048	-62.138006	-2011.884	
0.75000	-28.367140	-278.438828	-8.510178
-347.665828	-62.764058	-2016.769	
1.00000	-28.367140	-261.616041	-8.510178
-347.665828	-64.297194	-2029.161	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.561978	255.596479	7.490989
354.331383	99.593096	4040.413	
0.25000	22.561978	281.318992	7.490989
354.331383	97.072696	4064.801	
0.50000	22.561978	309.324141	7.490989
354.331383	96.007034	4068.565	
0.75000	22.561978	341.501914	7.490989
354.331383	96.585292	4067.411	
1.00000	22.561978	374.738050	7.490989
354.331383	98.599306	4046.096	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.158039	-376.260336	-7.541312
-353.916183	-90.890307	-973.856438	
0.25000	-21.158039	-343.018293	-7.541312
-353.373912	-88.085485	-897.872879	
0.50000	-21.158039	-311.062569	-7.541312
-353.373912	-86.749584	-856.201015	
0.75000	-21.158039	-283.134533	-7.541312
-353.373912	-87.108488	-936.121246	
1.00000	-21.158039	-257.392685	-7.541312
-353.373912	-88.926713	-1016.043	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	32.749601	276.515128	8.367484
353.837826	116.090520	4344.158	
0.25000	32.749601	296.652852	8.367484
353.837826	114.779637	4392.065	
0.50000	32.749601	318.511017	8.367484
353.839124	114.131146	4413.082	
0.75000	32.749601	341.552640	8.367484
353.923589	114.294999	4410.853	
1.00000	32.749601	365.200613	8.367484
356.130406	115.110936	4381.612	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.506739	-370.321367	-8.510178
-356.619556	-104.348148	-2007.294	
0.25000	-28.506739	-346.646859	-8.510178
-353.445370	-101.978633	-2007.038	
0.50000	-28.506739	-323.563612	-8.510178
-353.362096	-100.675437	-2011.884	
0.75000	-28.506739	-301.678196	-8.510178
-353.361987	-100.847312	-2016.769	
1.00000	-28.506739	-281.498363	-8.510178
-353.361987	-102.368115	-2029.161	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	32.749601	276.515128	8.367484
354.331383	116.090520	4344.158	
0.25000	32.749601	296.652852	8.367484
354.331383	114.779637	4392.065	
0.50000	32.749601	318.511017	8.367484
354.331383	114.131146	4413.082	
0.75000	32.749601	341.552640	8.367484
354.331383	114.294999	4410.853	
1.00000	32.749601	374.738050	8.367484
356.130406	115.110936	4381.612	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.506739	-376.260336	-8.510178
-356.619556	-104.348148	-2007.294	
0.25000	-28.506739	-346.646859	-8.510178
-353.445370	-101.978633	-2007.038	
0.50000	-28.506739	-323.563612	-8.510178
-353.373912	-100.675437	-2011.884	
0.75000	-28.506739	-301.678196	-8.510178
-353.373912	-100.847312	-2016.769	
1.00000	-28.506739	-281.498363	-8.510178
-353.373912	-102.368115	-2029.161	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	32.749601	276.515128	8.367484
354.331383	116.090520	4344.158	
0.25000	32.749601	296.652852	8.367484
354.331383	114.779637	4392.065	
0.50000	32.749601	318.511017	8.367484
354.331383	114.131146	4413.082	
0.75000	32.749601	341.552640	8.367484
354.331383	114.294999	4410.853	
1.00000	32.749601	374.738050	8.367484
356.130406	115.110936	4381.612	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.506739	-376.260336	-8.510178
-356.619556	-104.348148	-2007.294	
0.25000	-28.506739	-346.646859	-8.510178
-353.445370	-101.978633	-2007.038	
0.50000	-28.506739	-323.563612	-8.510178
-353.373912	-100.675437	-2011.884	
0.75000	-28.506739	-301.678196	-8.510178
-353.373912	-100.847312	-2016.769	
1.00000	-28.506739	-281.498363	-8.510178
-353.373912	-102.368115	-2029.161	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 133 ========== LENGTH = 4.928005

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.519041	22.781059	1.202575
124.495701	6.053991	580.564866	
0.25000	11.519041	22.793983	1.202575
124.525288	7.977571	559.569241	
0.50000	11.519041	22.807758	1.202575
124.557184	9.949453	539.124649	
0.75000	11.519041	22.822136	1.202575
124.590615	11.935171	519.391169	
1.00000	11.519041	22.838318	1.202575
124.631088	13.956399	500.375425	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.966159	-19.527364	-4.916031
-44.100266	-57.099908	-342.942799	
0.25000	-10.966159	-19.511263	-4.916031
-44.059385	-53.383754	-361.194157	
0.50000	-10.966159	-19.497106	-4.916031
-44.024886	-50.304324	-379.479244	
0.75000	-10.966159	-19.483667	-4.916031
-43.992419	-47.329972	-397.859979	
1.00000	-10.966159	-19.471168	-4.916031
-43.962557	-46.291973	-416.271537	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.621732	54.945141	3.190370
241.038758	7.855645	1236.508	
0.25000	18.621732	54.958060	3.190370
241.068297	10.014878	1190.470	
0.50000	18.621732	54.971831	3.190370
241.100146	12.209991	1147.603	
0.75000	18.621732	54.986203	3.190370
241.133529	14.444616	1107.478	
1.00000	18.621732	55.002377	3.190370
241.173906	16.869053	1070.303	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.713584	-36.887921	-7.966134
-73.187814	-90.347830	-630.772140	
0.25000	-17.713584	-36.871828	-7.966134
-73.146997	-84.916376	-668.206021	
0.50000	-17.713584	-36.857676	-7.966134
-73.112547	-80.837336	-705.660471	
0.75000	-17.713584	-36.844243	-7.966134
-73.080130	-78.333259	-743.211499	
1.00000	-17.713584	-36.831749	-7.966134
-73.050316	-77.339170	-780.827997	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.423078	108.271423	3.544439
341.618826	9.068590	2131.905	
0.25000	19.423078	108.283051	3.544439
341.645422	11.215936	2045.622	
0.50000	19.423078	108.295446	3.544439
341.674097	13.553304	1972.718	
0.75000	19.423078	108.308382	3.544439
341.704152	16.098036	1913.058	
1.00000	19.423078	108.322940	3.544439
341.740514	18.882781	1866.504	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.404591	-54.521946	-7.670126
-149.966794	-81.403854	-876.952364	
0.25000	-18.404591	-54.507461	-7.670126
-149.930044	-76.320818	-935.650542	
0.50000	-18.404591	-54.494723	-7.670126
-149.899029	-72.838981	-994.365982	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -18.404591 -54.482632 -7.670126
-149.869842 -71.063012 -1053.168
1.00000 -18.404591 -54.471386 -7.670126
-149.842998 -70.823054 -1112.033

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.831280	199.620428	5.346428
338.007337	39.718093	3054.457	
0.25000	20.831280	211.717210	5.346428
355.554393	40.019380	2971.582	
0.50000	20.831280	224.642300	5.346428
375.703843	40.706160	2889.789	
0.75000	20.831280	238.148776	5.346428
403.478410	42.208177	2812.507	
1.00000	20.831280	253.022943	5.346428
435.442117	44.259917	2734.084	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.574933	-173.433201	-7.558119
-340.760069	-72.510239	-991.045370	
0.25000	-19.574933	-158.638948	-7.558119
-307.361893	-69.099646	-1063.967	
0.50000	-19.574933	-145.357506	-7.558119
-278.779841	-67.028894	-1136.903	
0.75000	-19.574933	-132.772818	-7.558119
-253.577809	-66.370429	-1209.912	
1.00000	-19.574933	-121.102832	-7.558119
-231.058839	-66.998906	-1282.972	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.655176	47.427211	2.136787
141.342835	2.569346	898.175306	
0.25000	6.655176	47.569335	2.136787
141.667894	2.685168	862.841051	
0.50000	6.655176	47.720826	2.136787
142.018365	2.802896	832.137423	
0.75000	6.655176	47.878937	2.136787
142.385709	2.926173	805.507603	
1.00000	6.655176	48.056868	2.136787
142.830126	3.351014	785.433134	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.308131	-21.190810	-2.792156
-47.615383	-27.822153	-342.739041	
0.25000	-6.308131	-21.013769	-2.792156
-47.166211	-26.483146	-367.410150	
0.50000	-6.308131	-20.858083	-2.792156
-46.787134	-25.823575	-392.081258	
0.75000	-6.308131	-20.710304	-2.792156
-46.430409	-26.059555	-416.752366	
1.00000	-6.308131	-20.572850	-2.792156
-46.102320	-27.231232	-441.423484	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.110659	132.926816	3.039259
280.647812	14.398553	2191.250	
0.25000	9.110659	132.939736	3.039259
280.677363	14.215059	2089.925	
0.50000	9.110659	132.953508	3.039259
280.709224	14.220730	2013.699	
0.75000	9.110659	132.967882	3.039259
280.742619	14.622805	1969.113	
1.00000	9.110659	132.984057	3.039259
280.783021	15.404105	1948.951	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.405372	-62.883785	-3.135698
-180.020226	-25.390847	-680.746155	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -8.405372 -62.867690 -3.135698
-179.979392 -24.320638 -734.257584
0.50000 -8.405372 -62.853537 -3.135698
-179.944931 -24.237373 -787.769014
0.75000 -8.405372 -62.840102 -3.135698
-179.912501 -25.157289 -841.280444
1.00000 -8.405372 -62.827607 -3.135698
-179.882675 -26.943693 -894.791884

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.975879	140.021696	4.064993
354.814455	15.328652	2474.129	
0.25000	16.975879	140.033324	4.064993
354.841050	16.285249	2364.468	
0.50000	16.975879	140.045719	4.064993
354.869725	17.401772	2277.865	
0.75000	16.975879	140.058655	4.064993
354.899781	18.953432	2220.695	
1.00000	16.975879	140.073213	4.064993
354.936142	20.834386	2186.226	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.904477	-72.290160	-6.490338
-194.655019	-65.498054	-889.688778	
0.25000	-15.904477	-72.275675	-6.490338
-194.618269	-61.966627	-953.539929	
0.50000	-15.904477	-72.262937	-6.490338
-194.587253	-59.891099	-1017.391	
0.75000	-15.904477	-72.250846	-6.490338
-194.558067	-59.335733	-1081.272	
1.00000	-15.904477	-72.239600	-6.490338
-194.531223	-60.187159	-1145.206	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.915475	243.954893	6.729490
313.608055	55.829654	3466.064	
0.25000	20.915475	262.541007	6.729490
313.608055	54.469287	3394.545	
0.50000	20.915475	282.465060	6.729490
327.686870	53.765105	3313.774	
0.75000	20.915475	303.319980	6.729490
351.963740	54.204750	3225.686	
1.00000	20.915475	325.623723	6.729490
373.628451	55.484612	3125.537	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.661837	-232.232340	-6.926258
-350.386283	-59.461430	-1004.482	
0.25000	-19.661837	-210.078003	-6.926258
-329.009277	-57.582384	-1082.639	
0.50000	-19.661837	-189.607846	-6.926258
-305.559096	-56.913065	-1160.796	
0.75000	-19.661837	-170.258368	-6.926258
-280.326579	-57.520510	-1238.979	
1.00000	-19.661837	-152.389444	-6.926258
-274.442140	-59.294911	-1317.205	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.795117	200.767403	5.907427
89.037882	75.130966	2232.813	
0.25000	11.795117	224.572300	5.907427
89.037882	71.166976	2242.880	
0.50000	11.795117	250.270284	5.907427
89.037882	68.327359	2221.650	
0.75000	11.795117	277.254316	5.907427
89.037882	66.705687	2182.808	
1.00000	11.795117	304.427742	5.907427
89.037882	66.169588	2075.752	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.228044	-246.907750	-2.676244
-297.034595	-8.413576	-403.458409	
0.25000	-11.228044	-219.974052	-2.676244
-297.034595	-10.257860	-442.143518	
0.50000	-11.228044	-193.582199	-2.676244
-297.034595	-12.109670	-480.828623	
0.75000	-11.228044	-168.751282	-2.676244
-297.034595	-13.962455	-519.514433	
1.00000	-11.228044	-146.021150	-2.676244
-297.034595	-15.816107	-558.200053	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.081199	299.431202	7.593356
179.926801	99.269805	3541.363	
0.25000	15.081199	327.867073	7.593356
179.926801	94.223896	3504.070	
0.50000	15.081199	358.488630	7.593356
179.926801	90.534130	3445.351	
0.75000	15.081199	390.614982	7.593356
179.926801	88.355061	3369.666	
1.00000	15.081199	423.543699	7.593356
179.926801	87.602878	3268.601	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.070350	-328.054131	-3.636220
-414.658091	-13.422614	-707.817435	
0.25000	-14.070350	-295.394886	-3.636220
-414.658091	-15.944560	-773.431473	
0.50000	-14.070350	-263.940687	-3.636220
-414.658091	-18.484736	-839.047280	
0.75000	-14.070350	-234.308571	-3.636220
-414.658091	-21.046158	-904.665328	
1.00000	-14.070350	-207.101482	-3.636220
-414.658091	-23.622560	-970.285805	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.745249	315.405844	7.972206
280.086405	87.363524	4046.419	
0.25000	17.745249	341.487835	7.972206
280.086405	83.244576	3979.836	
0.50000	17.745249	369.567592	7.972206
280.086405	80.299202	3898.629	
0.75000	17.745249	399.024674	7.972206
280.086405	79.064338	3805.520	
1.00000	17.745249	429.270930	7.972206
280.086405	79.235000	3694.222	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.643979	-311.620870	-4.512114
-421.547524	-20.542913	-936.381404	
0.25000	-16.643979	-281.620219	-4.512114
-421.547524	-21.992550	-1018.141	
0.50000	-16.643979	-252.776396	-4.512114
-421.547524	-24.070728	-1099.900	
0.75000	-16.643979	-225.599898	-4.512114
-421.547524	-26.740093	-1181.659	
1.00000	-16.643979	-200.639884	-4.512114
-421.547524	-29.930486	-1263.419	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.591678	283.375049	8.077528
324.119476	74.200370	3839.948	
0.25000	21.591678	305.120741	8.077528
324.119476	71.081261	3767.320	
0.50000	21.591678	328.531825	8.077528
324.119476	69.234592	3683.435	
0.75000	21.591678	353.091150	8.077528
324.119476	68.749691	3590.232	
1.00000	21.591678	378.310212	8.077528
324.119476	69.492626	3482.667	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1613

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.334040	-273.331330	-6.611666
-374.535703	-49.750522	-1015.995	
0.25000	-20.334040	-248.316988	-6.611666
-374.535703	-49.125850	-1098.524	
0.50000	-20.334040	-224.268856	-6.611666
-374.535703	-49.585752	-1181.053	
0.75000	-20.334040	-201.610715	-6.611666
-374.535703	-51.200613	-1263.584	
1.00000	-20.334040	-180.800295	-6.611666
-374.535703	-53.851820	-1346.138	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.076631	44.692869	1.797385
158.430118	9.115759	873.428732	
0.25000	18.076631	44.700028	1.797385
158.444293	11.051138	850.126108	
0.50000	18.076631	44.707779	1.797385
158.460123	13.382541	826.872604	
0.75000	18.076631	44.715965	1.797385
158.477133	15.897569	804.001864	
1.00000	18.076631	44.724414	1.797385
158.494835	18.626331	781.160038	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.966173	-33.269044	-6.241168
-56.763303	-64.075975	-703.567956	
0.25000	-15.966173	-33.251109	-6.241168
-56.744356	-60.062370	-696.550958	
0.50000	-15.966173	-33.253483	-6.241168
-56.726162	-56.719830	-689.533774	
0.75000	-15.966173	-33.246352	-6.241168
-56.709204	-53.895971	-682.550804	
1.00000	-15.966173	-33.239856	-6.241168
-56.693925	-51.562240	-675.624675	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	28.505643	96.183981	3.807837
288.918098	12.178418	1765.772	
0.25000	28.505643	96.191138	3.807837
288.932244	14.319091	1715.893	
0.50000	28.505643	96.198886	3.807837
288.948042	16.951349	1667.331	
0.75000	28.505643	96.207069	3.807837
288.965019	19.947749	1619.619	
1.00000	28.505643	96.215515	3.807837
288.982685	23.549795	1572.342	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.062292	-63.431183	-9.324624
-92.936845	-103.237473	-1281.843	
0.25000	-26.062292	-63.423252	-9.324624
-92.917932	-97.619004	-1273.253	
0.50000	-26.062292	-63.415629	-9.324624
-92.899768	-93.157960	-1264.664	
0.75000	-26.062292	-63.408351	-9.324624
-92.882839	-90.057776	-1256.097	
1.00000	-26.062292	-63.402007	-9.324624
-92.867587	-87.988063	-1247.619	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.163250	169.242341	4.211418
377.836302	17.186718	2851.929	
0.25000	30.163250	169.448436	4.211418
378.243473	19.265422	2766.503	
0.50000	30.163250	169.671575	4.211418
378.698427	21.948339	2685.216	
0.75000	30.163250	169.907205	4.211418
379.186968	25.099744	2608.463	
1.00000	30.163250	170.150425	4.211418
379.695478	28.845209	2536.365	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1614

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.824866	-102.299231	-8.980337
-156.257821	-95.937819	-1790.286	
0.25000	-26.824866	-102.070838	-8.980337
-155.713371	-91.058644	-1785.594	
0.50000	-26.824866	-101.851318	-8.980337
-155.190471	-87.467755	-1780.916	
0.75000	-26.824866	-101.646047	-8.980337
-154.703134	-85.230991	-1776.262	
1.00000	-26.824866	-101.459045	-8.980337
-154.264060	-84.070949	-1771.680	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.552719	251.052914	6.346366
378.051010	52.242046	3656.276	
0.25000	31.552719	261.473121	6.346366
395.242564	52.629992	3574.852	
0.50000	31.552719	272.740498	6.346366
414.630825	53.634972	3482.870	
0.75000	31.552719	284.616263	6.346366
435.546204	55.067601	3383.047	
1.00000	31.552719	296.854044	6.346366
457.246060	57.305403	3273.462	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.473969	-203.591651	-8.935070
-331.051039	-87.116190	-1988.404	
0.25000	-27.473969	-192.145564	-8.935070
-307.119650	-83.591453	-1989.717	
0.50000	-27.473969	-181.120300	-8.935070
-284.071365	-81.146775	-1991.054	
0.75000	-27.473969	-170.791195	-8.935070
-262.616206	-79.839567	-1992.381	
1.00000	-27.473969	-161.382556	-8.935070
-243.433443	-79.607595	-1993.786	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.827556	69.274523	2.120956
146.918668	4.028484	1145.673	
0.25000	9.827556	69.346997	2.120956
147.060121	4.263804	1111.474	
0.50000	9.827556	69.423576	2.120956
147.218104	4.578628	1078.820	
0.75000	9.827556	69.505400	2.120956
147.387874	5.075358	1047.096	
1.00000	9.827556	69.589859	2.120956
147.564539	5.998470	1015.665	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.409617	-38.200789	-2.713753
-48.584084	-33.952639	-680.343734	
0.25000	-9.409617	-38.121477	-2.713753
-48.394957	-32.764198	-680.404403	
0.50000	-9.409617	-38.045246	-2.713753
-48.213318	-32.123772	-680.451824	
0.75000	-9.409617	-37.973964	-2.713753
-48.044031	-32.614625	-680.510301	
1.00000	-9.409617	-37.909027	-2.713753
-47.891508	-33.534016	-680.570347	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.015928	176.458794	3.308626
278.890851	21.984018	2616.575	
0.25000	14.015928	176.465953	3.308626
278.905018	21.927763	2526.389	
0.50000	14.015928	176.473703	3.308626
278.920840	22.148161	2447.056	
0.75000	14.015928	176.481888	3.308626
278.937842	22.679155	2382.447	
1.00000	14.015928	176.490337	3.308626
278.955535	23.604216	2329.261	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1615

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.951030	-101.417901	-3.308448
-161.755480	-33.893287	-1360.424	
0.25000	-11.951030	-101.469807	-3.308448
-161.736542	-33.192397	-1365.164	
0.50000	-11.951030	-101.402342	-3.308448
-161.718355	-33.192068	-1369.923	
0.75000	-11.951030	-101.395212	-3.308448
-161.701405	-34.146884	-1374.692	
1.00000	-11.951030	-101.388716	-3.308448
-161.686133	-35.646776	-1379.457	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.026040	197.632627	4.579070
378.005776	24.114752	3097.003	
0.25000	26.026040	197.639070	4.579070
378.018526	25.157770	2995.237	
0.50000	26.026040	197.646045	4.579070
378.032766	26.695805	2903.495	
0.75000	26.026040	197.653412	4.579070
378.048068	28.647346	2825.179	
1.00000	26.026040	197.661015	4.579070
378.063991	31.172701	2757.093	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.995422	-118.153409	-7.334126
-187.021282	-78.742118	-1788.812	
0.25000	-22.995422	-118.146269	-7.334126
-187.004239	-75.486247	-1790.987	
0.50000	-22.995422	-118.139406	-7.334126
-186.987870	-73.322939	-1798.168	
0.75000	-22.995422	-118.132989	-7.334126
-186.972615	-72.417891	-1805.351	
1.00000	-22.995422	-118.127142	-7.334126
-186.958870	-72.472932	-1812.558	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.718394	288.746297	7.760050
340.744802	69.172690	4008.591	
0.25000	30.718394	304.516711	7.760050
341.819455	67.995314	3935.044	
0.50000	30.718394	321.537527	7.760050
362.791662	67.341284	3841.306	
0.75000	30.718394	339.432732	7.760050
385.611441	67.238290	3729.002	
1.00000	30.718394	357.798723	7.760050
409.104478	68.209775	3597.088	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.023892	-250.699986	-7.941092
-360.532153	-74.032148	-2006.779	
0.25000	-27.023892	-233.607756	-7.941092
-332.892593	-72.101988	-2014.591	
0.50000	-27.023892	-217.093560	-7.941092
-305.882542	-71.079074	-2026.593	
0.75000	-27.023892	-201.591656	-7.941092
-280.827601	-71.101575	-2038.593	
1.00000	-27.023892	-187.455078	-7.941092
-271.515447	-72.308777	-2050.553	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.522728	196.320411	6.975236
103.672926	84.457999	2267.152	
0.25000	15.522728	216.338506	6.975236
103.672926	80.235752	2267.982	
0.50000	15.522728	237.879981	6.975236
103.672926	76.599396	2234.756	
0.75000	15.522728	260.416251	6.975236
103.672926	73.684753	2167.139	
1.00000	15.522728	283.376402	6.975236
103.441308	72.069708	2066.227	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1616

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.845476	-219.661461	-3.159619
-292.601287	-14.612235	-792.564043	
0.25000	-13.845476	-198.533056	-3.159619
-296.991688	-16.050213	-802.486386	
0.50000	-13.845476	-177.992632	-3.159619
-301.382089	-17.482351	-812.740564	
0.75000	-13.845476	-158.607351	-3.159619
-305.772490	-18.948469	-822.637544	
1.00000	-13.845476	-140.917184	-3.159619
-309.931273	-21.140883	-832.409660	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.547556	308.657767	9.128706
206.543929	116.362065	3667.382	
0.25000	20.547556	331.801021	9.128706
206.543929	111.272810	3623.250	
0.50000	20.547556	356.719800	9.128706
206.543929	106.793015	3548.915	
0.75000	20.547556	382.816798	9.128706
206.543929	103.073345	3451.291	
1.00000	20.547556	409.450769	9.128706
206.543929	100.795852	3325.607	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.256667	-305.488777	-4.431253
-418.498875	-22.043045	-1392.092	
0.25000	-17.256667	-280.906131	-4.431253
-418.984598	-23.907049	-1409.518	
0.50000	-17.256667	-257.048763	-4.431253
-419.470322	-25.780653	-1426.830	
0.75000	-17.256667	-234.571522	-4.431253
-419.956045	-27.667132	-1444.790	
1.00000	-17.256667	-214.048599	-4.431253
-420.441749	-30.411867	-1467.264	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	24.858450	343.752433	9.294910
299.195840	103.698137	4381.839	
0.25000	24.858450	364.963188	9.294910
299.195840	99.532980	4311.745	
0.50000	24.858450	387.802432	9.294910
299.195840	96.146120	4215.047	
0.75000	24.858450	411.725174	9.294910
299.195840	93.596024	4095.562	
1.00000	24.858450	436.145319	9.294910
299.195840	92.469610	3950.726	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.304245	-310.179138	-5.208785
-417.720369	-32.956610	-1853.767	
0.25000	-21.304245	-287.632321	-5.208785
-417.635797	-34.236872	-1868.322	
0.50000	-21.304245	-265.756988	-5.208785
-417.551226	-36.052671	-1882.764	
0.75000	-21.304245	-245.145765	-5.208785
-417.466654	-38.486224	-1897.324	
1.00000	-21.304245	-226.328443	-5.208785
-417.382085	-41.890346	-1911.770	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.894121	322.980759	9.323782
357.233747	89.174690	4323.793	
0.25000	30.894121	340.662859	9.323782
357.233747	85.946322	4246.050	
0.50000	30.894121	359.702569	9.323782
357.233747	83.930476	4146.659	
0.75000	30.894121	379.645648	9.323782
357.233747	82.605063	4028.323	
1.00000	30.894121	400.003556	9.323782
357.233747	82.720025	3888.933	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1617

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.374384	-281.793630	-7.516053
-378.806028	-65.360317	-2029.205	
0.25000	-27.374384	-262.997177	-7.516053
-378.717909	-64.669950	-2043.689	
0.50000	-27.374384	-244.758991	-7.516053
-378.629791	-64.766886	-2058.086	
0.75000	-27.374384	-227.578057	-7.516053
-378.541672	-65.898344	-2072.583	
1.00000	-27.374384	-211.890946	-7.516053
-378.453556	-68.313120	-2090.195	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.591678	315.405844	8.077528
354.814455	99.269805	4046.419	
0.25000	21.591678	341.487835	8.077528
355.554393	94.223896	3979.836	
0.50000	21.591678	369.567592	8.077528
375.703843	90.534130	3898.629	
0.75000	21.591678	399.024674	8.077528
403.478410	88.355061	3805.520	
1.00000	21.591678	429.270930	8.077528
435.442117	87.602878	3694.222	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.334040	-328.054131	-7.966134
-421.547524	-90.347830	-1015.995	
0.25000	-20.334040	-295.394886	-7.966134
-421.547524	-84.916376	-1098.524	
0.50000	-20.334040	-263.940687	-7.966134
-421.547524	-80.637336	-1181.053	
0.75000	-20.334040	-234.308571	-7.966134
-421.547524	-78.333259	-1263.584	
1.00000	-20.334040	-207.101482	-7.966134
-421.547524	-77.339170	-1346.138	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.552719	343.752433	9.323782
378.051010	116.362065	4381.839	
0.25000	31.552719	364.963188	9.323782
395.242564	111.272810	4311.745	
0.50000	31.552719	387.802432	9.323782
414.630825	106.793015	4215.047	
0.75000	31.552719	411.725174	9.323782
435.546204	103.073345	4095.562	
1.00000	31.552719	436.145319	9.323782
457.246060	100.795852	3950.726	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.473969	-310.179138	-9.324624
-418.498875	-103.237473	-2029.205	
0.25000	-27.473969	-287.632321	-9.324624
-418.984598	-97.619004	-2043.689	
0.50000	-27.473969	-265.754988	-9.324624
-419.470322	-93.157960	-2058.086	
0.75000	-27.473969	-245.145765	-9.324624
-419.956045	-90.057776	-2072.583	
1.00000	-27.473969	-226.328443	-9.324624
-420.441749	-87.988063	-2090.195	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.552719	343.752433	9.323782
378.051010	116.362065	4381.839	
0.25000	31.552719	364.963188	9.323782
395.242564	111.272810	4311.745	
0.50000	31.552719	387.802432	9.323782
414.630825	106.793015	4215.047	
0.75000	31.552719	411.725174	9.323782
435.546204	103.073345	4095.562	
1.00000	31.552719	436.145319	9.323782
457.246060	100.795852	3950.726	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1618

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.473969	-328.054131	-9.324624
-421.547524	-103.237473	-2029.205	
0.25000	-27.473969	-295.394886	-9.324624
-421.547524	-97.619004	-2043.689	
0.50000	-27.473969	-265.754988	-9.324624
-421.547524	-93.157960	-2058.086	
0.75000	-27.473969	-245.145765	-9.324624
-421.547524	-90.057776	-2072.583	
1.00000	-27.473969	-226.328443	-9.324624
-421.547524	-87.988063	-2090.195	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.552719	343.752433	9.323782
378.051010	116.362065	4381.839	
0.25000	31.552719	364.963188	9.323782
395.242564	111.272810	4311.745	
0.50000	31.552719	387.802432	9.323782
414.630825	106.793015	4215.047	
0.75000	31.552719	411.725174	9.323782
435.546204	103.073345	4095.562	
1.00000	31.552719	436.145319	9.323782
457.246060	100.795852	3950.726	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-27.473969	-328.054131	-9.324624
-421.547524	-103.237473	-2029.205	
0.25000	-27.473969	-295.394886	-9.324624
-421.547524	-97.619004	-2043.689	
0.50000	-27.473969	-265.754988	-9.324624
-421.547524	-93.157960	-2058.086	
0.75000	-27.473969	-245.145765	-9.324624
-421.547524	-90.057776	-2072.583	
1.00000	-27.473969	-226.328443	-9.324624
-421.547524	-87.988063	-2090.195	

ELEM 134 ========== LENGTH = 4.928104

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.866326	35.788926	0.624237
206.348465	14.097579	499.716757	
0.25000	10.866326	35.801923	0.624237
206.370559	16.169172	460.736152	
0.50000	10.866326	35.815607	0.624237
206.402659	18.292969	422.489744	
0.75000	10.866326	35.829749	0.624237
206.439050	20.455587	385.256945	
1.00000	10.866326	35.845627	0.624237
206.474800	22.631198	349.430068	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.432121	-20.126187	-5.838278
-48.742769	-47.341665	-416.267523	
0.25000	-10.432121	-20.110313	-5.838278
-48.701651	-42.009925	-425.890273	
0.50000	-10.432121	-20.096351	-5.838278
-48.666818	-37.279515	-435.615503	
0.75000	-10.432121	-20.083192	-5.838278
-48.634184	-33.219232	-445.422882	
1.00000	-10.432121	-20.071032	-5.838278
-48.604228	-29.896925	-455.230413	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.539361	81.879441	1.452661
374.775236	16.859578	1069.187	
0.25000	17.539361	81.892432	1.452661
374.797294	19.350553	983.714403	
0.50000	17.539361	81.906112	1.452661
374.829173	22.469393	901.207700	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1619

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	17.539361	81.920250	1.452661
374.862518	25.747371	823.054323	
1.00000	17.539361	81.936120	1.452661
374.901209	29.274860	748.820279	

COMB DB-G1-2 ---------- MIN

```
 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   -16.840138   -37.427361    -9.316898
-75.548257   -79.006288  -780.837131
 0.25000   -16.840138   -37.411495    -9.316898
-75.507202   -71.218459   -806.014770
 0.50000   -16.840138   -37.397538    -9.316898
-75.472417   -64.672775  -831.237799
 0.75000   -16.840138   -37.384384    -9.316898
-75.439831   -59.551776  -856.625460
 1.00000   -16.840138   -37.372228    -9.316898
-75.409921   -55.863121  -882.035108

 COMB DB-G1-3 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   18.243484   150.737433     1.862273
478.136140   18.063727     1865.320
 0.25000   18.243484   150.749126     1.862273
478.156001   20.524970     1715.077
 0.50000   18.243484   150.761438     1.862273
478.184742   23.379053     1576.050
 0.75000   18.243484   150.774163     1.862273
478.214763   26.398973     1452.049
 1.00000   18.243484   150.788448     1.862273
478.249598   29.727679     1343.331

 COMB DB-G1-3 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -17.459880   -51.667007    -8.851219
-105.684141  -72.677872   -1112.036
 0.25000  -17.459880   -51.652726    -8.851219
-105.647178   -65.566233   -1160.601
 0.50000  -17.459880   -51.640163    -8.851219
-105.615860   -59.804707   -1209.201
 0.75000  -17.459880   -51.628324    -8.851219
-105.586522   -55.349908   -1257.957
 1.00000  -17.459880   -51.617383    -8.851219
-105.559593   -52.688823   -1306.728

 COMB DB-G1-4 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   19.720301   253.908197     4.328596
449.123674   43.493223     2733.256
 0.25000   19.720301   266.057707     4.328596
456.004200   43.276191     2570.498
 0.50000   19.720301   278.894808     4.328596
474.335653   43.655800     2408.105
 0.75000   19.720301   292.190830     4.328596
492.899705   44.528844     2251.781
 1.00000   19.720301   306.803589     4.328596
524.714212   46.109219     2097.011

 COMB DB-G1-4 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -18.720096  -152.979030    -7.755588
-327.627208   -68.519281   -1282.965
 0.25000  -18.720096  -138.396293    -7.755588
-293.307621   -63.764301   -1351.938
 0.50000  -18.720096  -125.302523    -7.755588
-264.899895   -60.135307   -1420.965
 0.75000  -18.720096  -112.969718    -7.755588
-242.652998   -57.757868   -1490.158
 1.00000  -18.720096  -101.591689    -7.755588
-220.304342   -56.548939   -1559.363

 COMB DB-G2-1 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000    6.230966    65.291923     1.118903
188.758968    3.033767   784.992667
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                   1620

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2            V3
    T            M2            M3
 0.25000    6.230966    65.434843     1.118903
189.001708    3.151230   721.651860
 0.50000    6.230966    65.585329     1.118903
189.352988    3.867227   662.211100
 0.75000    6.230966    65.740858     1.118903
189.719908    4.805167   607.825449
 1.00000    6.230966    65.915451     1.118903
190.145668    5.998020   558.743094

 COMB DB-G2-1 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   -5.975998   -21.189591    -3.130848
-21.316863   -27.838297   -441.435536
 0.25000   -5.975998   -21.215046    -3.130848
-20.865090   -25.874553   -463.685947
 0.50000   -5.975998   -20.861500    -3.130848
-20.482323   -24.605022   -485.936819
 0.75000   -5.975998   -20.716797    -3.130848
-20.123745   -24.025533   -508.187950
 1.00000   -5.975998   -20.583068    -3.130848
-19.794604   -24.240105   -530.457168

 COMB DB-G2-2 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000    8.564508   172.252039     2.217884
330.190235   14.244062     1948.476
 0.25000    8.564508   172.265032     2.217884
330.212302   13.829145     1785.900
 0.50000    8.564508   172.278712     2.217884
330.244236   13.879712     1647.045
 0.75000    8.564508   172.292651     2.217884
330.277593   14.206952     1540.457
 1.00000    8.564508   172.308723     2.217884
330.316298   14.967911     1460.795

 COMB DB-G2-2 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   -8.013778   -51.261230    -3.140836
-125.493240   -27.753060   -894.789957
 0.25000   -8.013778   -51.245363    -3.140836
-125.452169   -26.397493   -948.624928
 0.50000   -8.013778   -51.231404    -3.140836
-125.417372   -25.834798   -1002.460
 0.75000   -8.013778   -51.218249    -3.140836
-125.384774   -26.091010   -1056.295
 1.00000   -8.013778   -51.206092    -3.140836
-125.354852   -27.027278   -1110.147

 COMB DB-G2-3 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   15.977732   186.761947     2.382856
463.011734   19.920907     2185.286
 0.25000   15.977732   186.773641     2.382856
463.031594   21.178204     2004.679
 0.50000   15.977732   186.785953     2.382856
463.060335   22.796927     1845.948
 0.75000   15.977732   186.798678     2.382856
463.090356   24.653792     1717.238
 1.00000   15.977732   186.812963     2.382856
463.125191   26.879920     1614.167

 COMB DB-G2-3 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -15.143166   -62.363222    -7.140594
-148.326009   -61.685477   -1145.208
 0.25000  -15.143166   -62.348941    -7.140594
-148.289045   -56.740571   -1203.264
 0.50000  -15.143166   -62.336378    -7.140594
-148.257728   -53.005423   -1261.320
 0.75000  -15.143166   -62.324538    -7.140594
-148.228390   -50.587650   -1319.409
 1.00000  -15.143166   -62.313597    -7.140594
-148.201460   -49.429396   -1377.605
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                   1621

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   19.862832   302.926711     5.834708
406.053856   54.708727     3125.142
 0.25000   19.862832   321.562341     5.834708
406.053856   52.548646     2967.925
 0.50000   19.862832   341.345962     5.834708
406.053856   51.152427     2800.804
 0.75000   19.862832   361.897203     5.834708
412.946344   50.524799     2627.657
 1.00000   19.862832   383.828803     5.834708
433.724900   50.851431     2445.307

 COMB DB-G2-4 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -18.861297  -204.703468    -6.475052
-364.880136   -60.544953   -1317.204
 0.25000  -18.861297  -182.872501    -6.475052
-343.021670   -57.919560   -1396.153
 0.50000  -18.861297  -162.702420    -6.475052
-319.264501   -56.307510   -1475.117
 0.75000  -18.861297  -143.718947    -6.475052
-293.915860   -55.800666   -1554.192
 1.00000  -18.861297  -126.246037    -6.475052
-291.996392   -56.338052   -1633.355

 COMB DB-G3-1 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   11.400234   231.891653     6.790904
43.603341   66.218189     2076.773
 0.25000   11.400234   255.679827     6.790904
43.603341   60.448599     2045.550
 0.50000   11.400234   281.184571     6.790904
43.603341   55.697377     1984.119
 0.75000   11.400234   307.829161     6.790904
43.603341   51.989180     1888.776
 1.00000   11.400234   334.620230     6.790904
43.603341   49.395247     1759.567

 COMB DB-G3-1 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -10.913403   -216.938899    -1.095732
-399.140365   -15.828254   -558.205416
 0.25000  -10.913403   -190.415477    -1.095732
-399.140365   -18.367659   -606.276601
 0.50000  -10.913403   -164.437683    -1.095732
-399.140365   -20.907813   -654.347810
 0.75000  -10.913403   -140.022546    -1.095732
-399.140365   -23.448847   -702.512248
 1.00000  -10.913403   -117.665943    -1.095732
-399.140365   -25.990640   -750.718724

 COMB DB-G3-2 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   14.582208   351.099643     8.763434
147.121430   87.437274     3269.643
 0.25000   14.582208   379.543850     8.763434
147.121430   79.998054     3159.160
 0.50000   14.582208   409.939341     8.763434
147.121430   73.777730     3031.278
 0.75000   14.582208   441.643228     8.763434
147.121430   68.880802     2886.597
 1.00000   14.582208   474.082193     8.763434
147.121430   65.390135     2717.434

 COMB DB-G3-2 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -13.731274   -280.457860    -1.444156
-518.198077   -23.604011   -970.276391
 0.25000  -13.731274   -248.289524    -1.444156
-518.198077   -27.060166   -1048.965
 0.50000  -13.731274   -217.319533    -1.444156
-518.198077   -30.530087   -1127.654
 0.75000  -13.731274   -188.202409    -1.444156
-518.198077   -34.018470   -1206.472
 1.00000  -13.731274   -161.488692    -1.444156
-518.198077   -37.520877   -1285.320
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                   1622

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   17.001812   378.311961     8.488953
283.315975   78.271471     3694.884
 0.25000   17.001812   404.404212     8.488953
283.315975   72.156133     3538.118
 0.50000   17.001812   432.277057     8.488953
283.315975   67.117149     3366.175
 0.75000   17.001812   461.345077     8.488953
283.315975   63.356428     3183.141
 1.00000   17.001812   491.139070     8.488953
283.315975   60.995326     2984.708

 COMB DB-G3-3 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -16.092882  -270.648996    -2.765162
-472.141111   -30.471113   -1263.415
 0.25000  -16.092882  -241.098693    -2.765162
-472.141111   -32.602452   -1356.101
 0.50000  -16.092882  -212.698035    -2.765162
-472.141111   -35.210876   -1448.787
 0.75000  -16.092882  -185.995591    -2.765162
-472.141111   -38.276651   -1541.593
 1.00000  -16.092882  -161.492468    -2.765162
-472.141111   -41.754202   -1634.425

 COMB DB-G3-4 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   20.567866   346.251330     7.538238
376.903905   68.720187     3482.795
 0.25000   20.567866   368.005664     7.538238
376.903905   64.502521     3319.497
 0.50000   20.567866   391.244251     7.538238
376.903905   61.400838     3144.592
 0.75000   20.567866   415.479145     7.538238
376.903905   59.413061     2961.650
 1.00000   20.567866   440.321035     7.538238
376.903905   58.678690     2766.928

 COMB DB-G3-4 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -19.553007  -239.348259    -5.618096
-419.817770   -54.898536   -1346.144
 0.25000  -19.553007  -214.709394    -5.618096
-419.817770   -54.037310   -1433.543
 0.50000  -19.553007  -191.030716    -5.618096
-419.817770   -54.061070   -1520.946
 0.75000  -19.553007  -168.767872    -5.618096
-419.817770   -55.060548   -1608.450
 1.00000  -19.553007  -148.338526    -5.618096
-419.817770   -56.971715   -1696.018

 COMB DL-G1-1 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   17.162199   56.628241     0.854882
263.445226   18.449448   780.374209
 0.25000   17.162199   56.635707     0.854882
263.459248   21.284875   734.239763
 0.50000   17.162199   56.643690     0.854882
263.474616   24.456361   688.126496
 0.75000   17.162199   56.652039     0.854882
263.490916   28.125055   642.486859
 1.00000   17.162199   56.660610     0.854882
263.507708   32.389277   596.927819

 COMB DL-G1-1 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -15.229079   -33.376608    -7.645648
-81.231903   -51.999268  -675.437079
 0.25000  -15.229079   -33.369004    -7.645648
-81.212260   -46.145416  -656.709803
 0.50000  -15.229079   -33.361779    -7.645648
-81.193686   -40.807252  -637.983443
 0.75000  -15.229079   -33.355092    -7.645648
-81.176583   -36.253070  -619.256234
 1.00000  -15.229079   -33.349050    -7.645648
-81.161283   -32.606150  -600.585363
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                   1623

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   26.989895   125.474448     1.690855
466.220739   22.851901     1570.982
 0.25000   26.989895   125.481912     1.690855
466.234729   26.463025     1470.648
 0.50000   26.989895   125.489892     1.690855
466.250065   30.915372     1371.534
 0.75000   26.989895   125.498238     1.690855
466.266331   36.215159     1274.563
 1.00000   26.989895   125.506806     1.690855
466.283088   42.488325     1178.310

 COMB DL-G1-2 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -24.857423   -61.582413    -11.635484
-117.481450   -88.495810   -1247.387
 0.25000  -24.857423   -61.574813    -11.635484
-117.461838   -79.381309   -1222.294
 0.50000  -24.857423   -61.567591    -11.635484
-117.443293   -71.482865   -1197.206
 0.75000  -24.857423   -61.560906    -11.635484
-117.426217   -65.346308   -1172.111
 1.00000  -24.857423   -61.554867    -11.635484
-117.410942   -60.460699   -1147.086

 COMB DL-G1-3 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   28.451935   220.552215     2.111107
558.965931   27.437566     2534.878
 0.25000   28.451935   220.767155     2.111107
559.368637   30.861812     2367.439
 0.50000   28.451935   220.996960     2.111107
559.810077   35.033226     2201.894
 0.75000   28.451935   221.237297     2.111107
560.278293   39.991646     2041.591
 1.00000   28.451935   221.484041     2.111107
560.760635   45.867402     1886.344

 COMB DL-G1-3 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -25.509402   -90.459254    -10.892827
-143.300052   -84.402349   -1771.507
 0.25000  -25.509402   -90.240393    -10.892827
-142.735458   -76.524072   -1753.093
 0.50000  -25.509402   -90.032224    -10.892827
-142.201570   -69.806994   -1734.654
 0.75000  -25.509402   -89.839921    -10.892827
-141.709978   -64.604577   -1716.228
 1.00000  -25.509402   -89.666008    -10.892827
-141.270223   -60.821402   -1697.891

 COMB DL-G1-4 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   29.978861   317.617673     5.346818
519.122318   55.927842     3272.554
 0.25000   29.978861   328.494539     5.346818
535.504951   52.990905     3089.479
 0.50000   29.978861   340.120894     5.346818
554.041944   57.877415     2893.600
 0.75000   29.978861   352.268663     5.346818
573.790499   60.219694     2690.823
 1.00000   29.978861   364.724346     5.346818
594.129823   63.556853     2478.565

 COMB DL-G1-4 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -26.327418   -178.130561    -9.804609
-351.226856   -79.016231   -1993.708
 0.25000  -26.327418   -167.190219    -9.804609
-326.141613   -74.646390   -1989.350
 0.50000  -26.327418   -156.763433    -9.804609
-302.273971   -70.564018   -1984.988
 0.75000  -26.327418   -147.099777    -9.804609
-280.305127   -67.885901   -1980.675
 1.00000  -26.327418   -138.409895    -9.804609
-260.717281   -66.585779   -1976.368
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                   1624

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000    9.225333    92.090512     1.000393
212.825434    5.244578     1015.088
 0.25000    9.225333    92.165150     1.000393
212.965341    5.736583    944.884957
 0.50000    9.225333    92.244950     1.000393
213.118700    6.643851    876.184825
 0.75000    9.225333    92.328408     1.000393
213.281360    7.877762    809.774235
 1.00000    9.225333    92.414091     1.000393
213.448927    9.432127    744.042774

 COMB DL-G2-1 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   -8.951103   -34.095292    -3.393432
-29.058349   -33.534505   -680.560202
 0.25000   -8.951103   -34.019289    -3.393432
-28.862231   -30.712109   -677.318601
 0.50000   -8.951103   -33.947070    -3.393432
-28.676780   -28.640222   -674.081510
 0.75000   -8.951103   -33.880221    -3.393432
-28.506022   -27.590185   -670.846466
 1.00000   -8.951103   -33.819829    -3.393432
-28.353268   -26.947686   -667.596033

 COMB DL-G2-2 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   13.193192   228.159838     2.442745
348.422910   22.150687     2328.599
 0.25000   13.193192   228.166814     2.442745
348.436924   21.951951     2161.390
 0.50000   13.193192   228.174796     2.442745
348.452284   22.260676     2002.313
 0.75000   13.193192   228.183144     2.442745
348.468575   22.918266     1858.919
 1.00000   13.193192   228.191715     2.442745
348.485358   23.969594     1727.231

 COMB DL-G2-2 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -11.402697   -82.499541    -3.455317
-113.879021   -35.557405   -1379.500
 0.25000  -11.402697   -82.491938    -3.455317
-113.859385   -33.870528   -1384.404
 0.50000  -11.402697   -82.484714    -3.455317
-113.840818   -32.075274   -1389.276
 0.75000  -11.402697   -82.477827    -3.455317
-113.823722   -32.917595   -1394.177
 1.00000  -11.402697   -82.471986    -3.455317
-113.808429   -33.397814   -1399.092

 COMB DL-G2-3 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   24.579196   255.964935     2.805513
523.710793   29.713787     2755.863
 0.25000   24.579196   255.971654     2.805513
523.723405   31.701516     2564.166
 0.50000   24.579196   255.978838     2.805513
523.737230   34.336185     2380.009
 0.75000   24.579196   255.986351     2.805513
523.751892   37.582594     2210.288
 1.00000   24.579196   255.994065     2.805513
523.766997   41.569454     2051.476

 COMB DL-G2-3 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -21.939227   -101.010431    -8.623439
-159.021943   -72.685560   -1812.503
 0.25000  -21.939227   -101.003586    -8.623439
-159.004271   -67.075841   -1833.665
 0.50000  -21.939227   -100.997086    -8.623439
-158.987561   -62.604015   -1832.250
 0.75000  -21.939227   -100.991068    -8.623439
-158.972174   -59.447614   -1830.864
 1.00000  -21.939227   -100.985631    -8.623439
-158.958410   -57.414455   -1829.492
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                   1625

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   29.246237   363.204459     7.241515
467.763185   66.798017     3596.677
 0.25000   29.246237   379.689044     7.241515
467.750274   65.214642     3412.218
 0.50000   29.246237   397.298026     7.241515
469.782515   64.573679     3205.723
 0.75000   29.246237   415.681831     7.241515
490.573433   64.886533     2981.393
 1.00000   29.246237   434.485927     7.241515
511.908840   66.285758     2737.791

 COMB DL-G2-4 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -25.968980   -218.619147    -8.122110
-411.098072   -72.525080   -2050.596
 0.25000  -25.968980   -202.363190    -8.122110
-382.776044   -69.718745   -2081.551
 0.50000  -25.968980   -186.779408    -8.122110
-354.138622   -68.100795   -2093.704
 0.75000  -25.968980   -172.313513    -8.122110
-327.577641   -67.777774   -2105.939
 1.00000  -25.968980   -159.185674    -8.122110
-319.217895   -68.684845   -2118.146

 COMB DL-G3-1 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   15.045147   237.331528     8.566945
70.167893   71.784716     2067.431
 0.25000   15.045147   258.317764     8.566945
70.167893   65.797059     2011.383
 0.50000   15.045147   280.732482     8.566945
70.167893   60.638472     1921.646
 0.75000   15.045147   304.067353     8.566945
70.167893   56.490017     1797.286
 1.00000   15.045147   327.844283     8.566945
70.167893   53.461713     1639.112

 COMB DL-G3-1 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -13.513789   -191.802797    -1.681243
-419.006316   -21.175907   -832.566028
 0.25000  -13.513789   -171.907168    -1.681243
-423.477045   -24.377733   -854.530019
 0.50000  -13.513789   -152.671105    -1.681243
-427.867534   -27.990050   -876.444933
 0.75000  -13.513789   -134.643262    -1.681243
-432.258023   -31.995540   -898.440958
 1.00000  -13.513789   -118.226783    -1.681243
-436.648513   -36.522646   -920.433072

 COMB DL-G3-2 ------------------- MAX

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000   19.949494   376.744014    11.319764
175.378260   100.122904     3326.917
 0.25000   19.949494   400.991062    11.319764
175.378260   92.289310     3187.886
 0.50000   19.949494   426.883160    11.319764
175.378260   85.613795     3017.238
 0.75000   19.949494   453.855539    11.319764
175.378260   80.062819     2823.330
 1.00000   19.949494   481.365016    11.319764
175.378260   75.822845     2601.377

 COMB DL-G3-2 ------------------- MIN

 REL DIST            P            V2            V3
    T            M2            M3
 0.00000  -16.922851   -261.618750    -2.340336
-542.228392   -30.405534   -1467.476
 0.25000  -16.922851   -238.429409    -2.340336
-542.714125   -34.500640   -1502.107
 0.50000  -16.922851   -216.054698    -2.340336
-543.199858   -39.233696   -1536.763
 0.75000  -16.922851   -195.121015    -2.340336
-543.685591   -44.468273   -1571.465
 1.00000  -16.922851   -176.086928    -2.340336
-544.171324   -50.371075   -1606.160
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.844593	426.481941	10.507086
314.492911	91.051626	3951.491	
0.25000	23.844593	448.702399	10.507086
314.492911	84.806265	3762.310	
0.50000	23.844593	472.429921	10.507086
314.492911	79.637521	3545.222	
0.75000	23.844593	497.149272	10.507086
314.492911	75.484193	3305.534	
1.00000	23.844593	522.358215	10.507086
314.492911	72.625033	3040.190	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.648554	-265.445744	-3.557711
-499.251697	-41.835075	-1911.978	
0.25000	-20.648554	-244.170467	-3.557711
-499.167124	-44.542885	-1940.353	
0.50000	-20.648554	-223.648568	-3.557711
-499.082550	-48.136913	-1968.737	
0.75000	-20.648554	-204.452286	-3.557711
-498.997977	-52.611453	-1997.154	
1.00000	-20.648554	-186.999457	-3.557711
-498.913404	-57.882442	-2025.561	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.489495	404.069942	9.350169
437.614313	81.291050	3889.048	
0.25000	29.489495	422.593704	9.350169
437.614313	77.372320	3692.372	
0.50000	29.489495	442.373793	9.350169
437.614313	74.651320	3472.756	
0.75000	29.489495	462.980766	9.350169
437.614313	73.076201	3234.825	
1.00000	29.489495	483.995982	9.350169
437.614313	72.895574	2975.989	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.385588	-243.944387	-7.033995
-455.293869	-68.441747	-2090.310	
0.25000	-26.385588	-226.207758	-7.033995
-455.205748	-67.167697	-2110.496	
0.50000	-26.385588	-209.099399	-7.033995
-455.117628	-67.943607	-2130.682	
0.75000	-26.385588	-193.096290	-7.033995
-455.029508	-69.597642	-2150.921	
1.00000	-26.385588	-178.546672	-7.033995
-454.941387	-72.441335	-2174.101	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.567866	378.311961	8.763434
478.136140	87.437274	3694.884	
0.25000	20.567866	404.404212	8.763434
478.156001	79.998054	3538.118	
0.50000	20.567866	432.277057	8.763434
478.184742	73.777730	3366.175	
0.75000	20.567866	461.345077	8.763434
492.899705	68.880802	3183.141	
1.00000	20.567866	491.139070	8.763434
524.714212	65.390135	2984.708	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.553007	-280.457860	-9.316898
-518.198077	-79.006288	-1346.144	
0.25000	-19.553007	-248.289524	-9.316898
-518.198077	-71.218459	-1433.543	
0.50000	-19.553007	-217.319533	-9.316898
-518.198077	-64.672775	-1520.946	
0.75000	-19.553007	-188.202409	-9.316898
-518.198077	-59.551776	-1608.450	
1.00000	-19.553007	-161.492468	-9.316898
-518.198077	-56.971715	-1696.018	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.978861	426.481941	11.319764
558.965931	100.122904	3951.491	
0.25000	29.978861	448.702399	11.319764
559.368637	92.289310	3762.310	
0.50000	29.978861	472.429921	11.319764
559.810077	85.613795	3545.222	
0.75000	29.978861	497.149272	11.319764
573.790499	80.062819	3305.534	
1.00000	29.978861	522.358215	11.319764
594.129823	75.822845	3040.190	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.385588	-265.445744	-11.635484
-542.228392	-88.495810	-2090.310	
0.25000	-26.385588	-244.170467	-11.635484
-542.714125	-79.381309	-2110.496	
0.50000	-26.385588	-223.648568	-11.635484
-543.199858	-71.482865	-2130.682	
0.75000	-26.385588	-204.452286	-11.635484
-543.685591	-69.597642	-2150.921	
1.00000	-26.385588	-186.999457	-11.635484
-544.171324	-72.441335	-2174.101	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.978861	426.481941	11.319764
558.965931	100.122904	3951.491	
0.25000	29.978861	448.702399	11.319764
559.368637	92.289310	3762.310	
0.50000	29.978861	472.429921	11.319764
559.810077	85.613795	3545.222	
0.75000	29.978861	497.149272	11.319764
573.790499	80.062819	3305.534	
1.00000	29.978861	522.358215	11.319764
594.129823	75.822845	3040.190	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.385588	-280.457860	-11.635484
-542.228392	-88.495810	-2090.310	
0.25000	-26.385588	-248.289524	-11.635484
-542.714125	-79.381309	-2110.496	
0.50000	-26.385588	-223.648568	-11.635484
-543.199858	-71.482865	-2130.682	
0.75000	-26.385588	-204.452286	-11.635484
-543.685591	-69.597642	-2150.921	
1.00000	-26.385588	-186.999457	-11.635484
-544.171324	-72.441335	-2174.101	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.978861	426.481941	11.319764
558.965931	100.122904	3951.491	
0.25000	29.978861	448.702399	11.319764
559.368637	92.289310	3762.310	
0.50000	29.978861	472.429921	11.319764
559.810077	85.613795	3545.222	
0.75000	29.978861	497.149272	11.319764
573.790499	80.062819	3305.534	
1.00000	29.978861	522.358215	11.319764
594.129823	75.822845	3040.190	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.385588	-280.457860	-11.635484
-542.228392	-88.495810	-2090.310	
0.25000	-26.385588	-248.289524	-11.635484
-542.714125	-79.381309	-2110.496	
0.50000	-26.385588	-223.648568	-11.635484
-543.199858	-71.482865	-2130.682	
0.75000	-26.385588	-204.452286	-11.635484
-543.685591	-69.597642	-2150.921	
1.00000	-26.385588	-186.999457	-11.635484
-544.171324	-72.441335	-2174.101	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 135 ========== LENGTH = 4.928318

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.174212	43.110367	0.551364
261.213055	22.954718	348.469877	
0.25000	10.174212	43.123259	0.551364
261.234458	24.171307	301.337856	
0.50000	10.174212	43.136824	0.551364
261.264379	25.454757	255.893247	
0.75000	10.174212	43.150837	0.551364
261.298277	26.816490	221.326553	
1.00000	10.174212	43.166983	0.551364
261.337258	28.229110	226.755450	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.896182	-19.813964	-5.657546
-69.160584	-30.896693	-455.057108	
0.25000	-9.896182	-19.798534	-5.657546
-69.119491	-25.627782	-450.826879	
0.50000	-9.896182	-19.784992	-5.657546
-69.084417	-21.011843	-446.884933	
0.75000	-9.896182	-19.772201	-5.657546
-69.051006	-17.132902	-443.190313	
1.00000	-9.896182	-19.760427	-5.657546
-69.019608	-14.064819	-439.566489	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.407565	99.547748	0.609459
468.855944	28.878664	747.185083	
0.25000	16.407565	99.560636	0.609459
468.877315	31.411289	639.403726	
0.50000	16.407565	99.574197	0.609459
468.906996	34.301240	537.760619	
0.75000	16.407565	99.588206	0.609459
468.940847	37.656776	449.905313	
1.00000	16.407565	99.603814	0.609459
468.979771	41.184162	429.368051	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.961173	-36.720976	-9.989709
-101.360982	-57.456374	-881.795159	
0.25000	-15.961173	-36.705554	-9.989709
-101.319949	-48.026381	-885.340611	
0.50000	-15.961173	-36.692016	-9.989709
-101.284921	-39.571703	-889.431824	
0.75000	-15.961173	-36.679229	-9.989709
-101.251557	-32.294571	-893.722320	
1.00000	-15.961173	-36.667460	-9.989709
-101.220205	-26.107958	-898.314747	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.010554	183.725533	0.663026
581.914737	29.107462	1341.562	
0.25000	17.010554	183.737133	0.663026
581.933978	31.346172	1149.255	
0.50000	17.010554	183.749339	0.663026
581.960745	33.785543	971.132009	
0.75000	17.010554	183.761948	0.663026
581.991222	36.879471	817.355002	
1.00000	17.010554	183.775997	0.663026
582.026266	40.330497	737.377709	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.506588	-51.374686	-9.632494
-96.551616	-54.574666	-1306.506	
0.25000	-16.506588	-51.360804	-9.632494
-96.514673	-45.688975	-1334.776	
0.50000	-16.506588	-51.348619	-9.632494
-96.483137	-37.907179	-1363.557	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-16.506588	-51.337110	-9.632494
-96.453099	-31.388027	-1392.498	
1.00000	-16.506588	-51.326516	-9.632494
-96.424872	-26.123946	-1421.679	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.577300	304.203355	3.598312
540.824523	45.309639	2095.736	
0.25000	18.577300	316.310889	3.598312
540.824523	44.070268	1867.672	
0.50000	18.577300	329.073072	3.598312
558.884305	43.169420	1641.678	
0.75000	18.577300	342.266294	3.598312
576.947101	43.002014	1429.860	
1.00000	18.577300	356.655793	3.598312
606.348128	43.388454	1269.766	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.889726	-131.326283	-8.303411
-321.556858	-57.978683	-1559.248	
0.25000	-17.889726	-117.130216	-8.303411
-287.493978	-51.988286	-1618.758	
0.50000	-17.889726	-104.418169	-8.303411
-263.723238	-46.931044	-1678.697	
0.75000	-17.889726	-92.432643	-8.303411
-241.471079	-42.920427	-1738.867	
1.00000	-17.889726	-81.415849	-8.303411
-220.049711	-39.957923	-1799.288	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.793129	79.840685	0.238442
227.229371	4.840464	558.053341	
0.25000	5.793129	79.982460	0.238442
227.464540	5.844653	476.423399	
0.50000	5.793129	80.131642	0.238442
227.791687	7.139348	400.011816	
0.75000	5.793129	80.285755	0.238442
228.164181	8.836740	329.749179	
1.00000	5.793129	80.457464	0.238442
228.592504	10.856777	274.877093	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.639168	-20.961572	-4.097152
-27.376374	-24.872361	-530.407592	
0.25000	-5.639168	-20.791907	-4.097152
-26.924847	-21.091359	-546.258813	
0.50000	-5.639168	-20.642983	-4.097152
-26.539415	-17.605867	-562.148039	
0.75000	-5.639168	-20.502314	-4.097152
-26.172277	-14.604317	-578.127205	
1.00000	-5.639168	-20.372839	-4.097152
-25.827284	-11.834773	-594.148843	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.006149	208.608642	1.255828
382.153714	13.673197	1459.972	
0.25000	8.006149	208.621731	1.255828
382.175093	13.274302	1249.648	
0.50000	8.006149	208.635293	1.255828
382.204834	13.109347	1063.790	
0.75000	8.006149	208.649303	1.255828
382.238697	13.703338	912.887682	
1.00000	8.006149	208.664913	1.255828
382.277635	14.624206	801.083729	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.629517	-43.535445	-4.065927
-84.791352	-27.872140	-1110.115	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-7.629517	-43.520021	-4.065927
-84.750304	-24.845045	-1160.026	
0.50000	-7.629517	-43.506483	-4.065927
-84.715265	-22.326061	-1209.952	
0.75000	-7.629517	-43.493695	-4.065927
-84.681889	-20.360940	-1259.915	
1.00000	-7.629517	-43.481924	-4.065927
-84.650526	-18.906293	-1309.917	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.936742	226.374863	1.368483
553.617865	26.059085	1612.669	
0.25000	14.936742	226.386463	1.368483
553.637106	27.329105	1380.497	
0.50000	14.936742	226.398669	1.368483
553.663873	28.819945	1172.271	
0.75000	14.936742	226.411278	1.368483
553.694350	30.911382	997.818105	
1.00000	14.936742	226.425327	1.368483
553.729394	33.297122	904.265857	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.385260	-55.181025	-8.159491
-124.563533	-50.914459	-1377.459	
0.25000	-14.385260	-55.167143	-8.159491
-124.526590	-43.894680	-1421.424	
0.50000	-14.385260	-55.154959	-8.159491
-124.495055	-37.746612	-1465.599	
0.75000	-14.385260	-55.143450	-8.159491
-124.465016	-32.551846	-1510.038	
1.00000	-14.385260	-55.132856	-8.159491
-124.436789	-28.309080	-1554.621	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.787312	362.308276	5.287032
492.358882	49.952053	2444.613	
0.25000	18.787312	380.995968	5.287032
492.358882	47.051746	2209.287	
0.50000	18.787312	400.740276	5.287032
492.358882	44.642162	1965.582	
0.75000	18.787312	421.170739	5.287032
492.358882	43.149136	1718.891	
1.00000	18.787312	442.806018	5.287032
501.863487	42.503433	1509.287	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.089125	-172.798679	-7.061137
-377.554915	-73.473685	-1633.343	
0.25000	-18.089125	-151.501489	-7.061137
-355.283529	-53.360230	-1711.159	
0.50000	-18.089125	-131.893300	-7.061137
-330.286983	-49.969290	-1789.148	
0.75000	-18.089125	-113.451699	-7.061137
-313.414662	-47.380039	-1867.559	
1.00000	-18.089125	-96.529801	-7.061137
-313.414662	-45.588594	-1946.156	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.026415	274.640098	7.169570
73.669671	49.077901	1760.921	
0.25000	11.026415	298.791020	7.169570
73.669671	42.349960	1673.032	
0.50000	11.026415	324.437613	7.169570
73.669671	36.428148	1553.583	
0.75000	11.026415	351.021952	7.169570
73.669671	31.402592	1399.776	
1.00000	11.026415	377.551391	7.169570
73.669671	27.383513	1212.259	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.637202	-174.663397	-0.433991
-470.132368	-25.845785	-750.921566	
0.25000	-10.637202	-148.670768	-0.433991
-470.132368	-28.591638	-817.663710	
0.50000	-10.637202	-123.351005	-0.433991
-470.132368	-31.338557	-884.422697	
0.75000	-10.637202	-99.651142	-0.433991
-470.132368	-34.085937	-951.534267	
1.00000	-10.637202	-78.006966	-0.433991
-470.132368	-36.833889	-1018.719	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.110956	416.398950	9.644163
185.517518	64.758344	2718.761	
0.25000	14.110956	445.172329	9.644163
185.517518	55.582783	2520.932	
0.50000	14.110956	475.669964	9.644163
185.517518	47.271024	2303.715	
0.75000	14.110956	507.269637	9.644163
185.517518	40.390488	2070.650	
1.00000	14.110956	539.354282	9.644163
185.517518	34.606697	1815.553	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.450328	-223.214478	-0.760799
-573.038603	-37.209420	-1285.563	
0.25000	-13.450328	-191.733627	-0.760799
-573.038603	-41.022352	-1387.766	
0.50000	-13.450328	-161.570570	-0.760799
-573.038603	-44.860011	-1489.986	
0.75000	-13.450328	-133.300219	-0.760799
-573.038603	-48.712165	-1592.601	
1.00000	-13.450328	-107.429498	-0.760799
-573.038603	-52.581277	-1695.305	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.272291	451.171364	8.166473
344.387411	59.822387	2985.457	
0.25000	16.272291	477.555909	8.166473
344.387411	52.310958	2732.641	
0.50000	16.272291	505.516224	8.166473
344.387411	45.627335	2463.848	
0.75000	16.272291	534.484668	8.166473
344.387411	40.274528	2185.322	
1.00000	16.272291	563.950821	8.166473
344.387411	36.158391	1896.044	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.587873	-220.590095	-2.681467
-507.511134	-42.175382	-1634.617	
0.25000	-15.587873	-191.675306	-2.681467
-507.511134	-43.661726	-1744.832	
0.50000	-15.587873	-164.016714	-2.681467
-507.511134	-45.493231	-1855.060	
0.75000	-15.587873	-138.090242	-2.681467
-507.511134	-47.676744	-1965.649	
1.00000	-15.587873	-114.360441	-2.681467
-507.511134	-50.212330	-2076.322	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.537370	413.973636	7.037301
463.666299	57.608034	2764.823	
0.25000	19.537370	435.971347	7.037301
463.666299	52.753818	2514.305	
0.50000	19.537370	459.282655	7.037301
463.666299	48.656322	2250.744	
0.75000	19.537370	483.434426	7.037301
463.666299	45.896868	1981.564	
1.00000	19.537370	508.002856	7.037301
463.666299	44.179264	1734.654	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.809101	-197.528862	-6.037634
-455.880746	-57.883737	-1696.099	
0.25000	-18.809101	-173.420016	-6.037634
-455.880746	-55.417756	-1790.213	
0.50000	-18.809101	-150.360096	-6.037634
-455.880746	-53.525104	-1884.366	
0.75000	-18.809101	-128.744190	-6.037634
-455.880746	-52.304589	-1979.026	
1.00000	-18.809101	-108.959600	-6.037634
-455.880746	-51.696017	-2073.810	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.119594	60.202354	0.773205
341.500885	31.835908	595.758681	
0.25000	16.119594	60.210059	0.773205
341.514439	34.426243	537.160198	
0.50000	16.119594	60.218281	0.773205
341.529491	37.511354	486.856897	
0.75000	16.119594	60.226889	0.773205
341.545713	41.201012	458.980370	
1.00000	16.119594	60.235741	0.773205
341.562686	45.528939	446.174341	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.404416	-36.440723	-6.933328
133.436066	-32.632976	-600.186037	
0.25000	-14.404416	-36.433649	-6.933328
-133.436066	-27.488985	-564.946794	
0.50000	-14.404416	-36.426939	-6.933328
-133.417560	-23.059837	-539.406576	
0.75000	-14.404416	-36.420717	-6.933328
-133.400322	-19.533123	-540.764794	
1.00000	-14.404416	-36.415103	-6.933328
-133.384595	-16.967108	-546.285825	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.242529	138.197735	0.819641
604.867410	41.049729	1176.271	
0.25000	25.242529	138.205438	0.819641
604.880941	46.250236	1044.978	
0.50000	25.242529	138.213657	0.819641
604.895960	52.578613	937.828567	
0.75000	25.242529	138.222263	0.819641
604.912147	60.269795	868.615097	
1.00000	25.242529	138.231112	0.819641
604.929084	69.200675	829.816819	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.510457	-64.149350	-13.292567
-192.438235	-60.461860	-1146.546	
0.25000	-23.510457	-64.142280	-13.292567
-192.418908	-50.061006	-1095.588	
0.50000	-23.510457	-64.135573	-13.292567
-192.400429	-41.156688	-1072.238	
0.75000	-23.510457	-64.129354	-13.292567
-192.383217	-34.064688	-1093.840	
1.00000	-23.510457	-64.123743	-13.292567
-192.367514	-28.734200	-1133.441	

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.423983 257.977421 0.978838
711.243477 43.825933 1884.080
0.25000 26.423983 258.198241 0.978838
711.632942 48.514200 1654.020
0.50000 26.423983 258.435937 0.978838
712.065260 54.021563 1481.044
0.75000 26.423983 258.683760 0.978838
712.531205 60.790979 1361.427
1.00000 26.423983 258.938590 0.978838
713.018713 68.230539 1288.727

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -23.994271 -90.587239 -12.458486
-185.182037 -60.775954 -1697.434
0.25000 -23.994271 -90.383645 -12.458486
-184.625629 -51.227169 -1653.582
0.50000 -23.994271 -90.190497 -12.458486
-184.093640 -42.919002 -1678.731
0.75000 -23.994271 -90.011415 -12.458486
-183.598107 -36.238594 -1766.446
1.00000 -23.994271 -89.849831 -12.458486
-183.146017 -31.301383 -1888.822

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 28.155114 380.683511 5.297116
661.961156 61.266510 2477.150
0.25000 28.155114 391.983161 5.297116
673.974177 62.077120 2214.538
0.50000 28.155114 404.022555 5.297116
692.021339 63.950431 2011.730
0.75000 28.155114 416.603376 5.297116
711.562414 67.180583 1856.275
1.00000 28.155114 429.510424 5.297116
732.011759 71.834286 1740.934

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.057881 -162.729474 -10.879302
-405.455060 -66.313444 -1976.125
0.25000 -25.057881 -152.580410 -10.879302
-380.523127 -60.516180 -1976.312
0.50000 -25.057881 -142.940723 -10.879302
-356.547007 -55.982507 -2070.261
0.75000 -25.057881 -133.994151 -10.879302
-334.139831 -53.082465 -2233.787
1.00000 -25.057881 -125.921220 -10.879302
-313.874654 -51.973268 -2443.688

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.501841 108.361998 0.282583
275.593520 8.240677 743.167300
0.25000 8.501841 108.439024 0.282583
275.728829 9.909000 646.229480
0.50000 8.501841 108.521216 0.282583
275.879021 12.427703 573.113832
0.75000 8.501841 108.607272 0.282583
276.040894 15.960663 520.734109
1.00000 8.501841 108.695762 0.282583
276.210258 20.137130 484.250234

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.427365 -33.261490 -5.915715
-47.133688 -26.817665 -667.513649
0.25000 -8.427365 -33.190789 -5.915715
-46.940418 -21.306285 -655.870769
0.50000 -8.427365 -33.123716 -5.915715
-46.755631 -16.833006 -671.719868
0.75000 -8.427365 -33.061527 -5.915715
-46.583507 -13.705666 -711.244270
1.00000 -8.427365 -33.005415 -5.915715
-46.426472 -11.438062 -769.924706

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.179220 277.277493 2.048159
427.148679 22.063343 1726.175
0.25000 12.179220 277.285197 2.048159
427.162226 22.489820 1494.188
0.50000 12.179220 277.293418 2.048159
427.177269 23.520204 1331.430
0.75000 12.179220 277.302026 2.048159
427.193482 25.267726 1219.578
1.00000 12.179220 277.310877 2.048159
427.210446 27.921503 1151.741

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.754524 -74.671541 -5.567624
-96.169085 -31.199616 -1399.088
0.25000 -10.754524 -74.664468 -5.567624
-96.142736 -29.448782 -1402.042
0.50000 -10.754524 -74.657758 -5.567624
-96.124237 -26.430898 -1484.739
0.75000 -10.754524 -74.651537 -5.567624
-96.107005 -24.371456 -1613.214
1.00000 -10.754524 -74.645924 -5.567624
-96.091284 -23.334844 -1781.734

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.855040 303.774375 2.161981
657.990792 39.436966 2049.586
0.25000 22.855040 303.781309 2.161981
658.002984 42.652312 1788.036
0.50000 22.855040 303.788708 2.161981
658.016524 46.728423 1596.978
0.75000 22.855040 303.796455 2.161981
658.031115 51.886823 1467.792
1.00000 22.855040 303.804421 2.161981
658.046383 58.309980 1393.656

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -20.728181 -95.146445 -11.131506
-180.380052 -57.237568 -1829.210
0.25000 -20.728181 -95.140079 -11.131506
-180.362638 -49.305555 -1810.512
0.50000 -20.728181 -95.134041 -11.131506
-180.345988 -42.544751 -1871.155
0.75000 -20.728181 -95.128442 -11.131506
-180.330480 -37.269094 -1990.682
1.00000 -20.728181 -95.123390 -11.131506
-180.316331 -33.625849 -2150.474

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 27.556373 441.009619 7.322771
608.334772 63.852215 2737.136
0.25000 27.556373 458.307782 7.322771
608.332814 62.778639 2464.489
0.50000 27.556373 476.698075 7.322771
608.372798 62.925119 2250.095
0.75000 27.556373 495.860378 7.322771
618.569972 64.389082 2072.129
1.00000 27.556373 515.453481 7.322771
639.727773 67.381079 1927.957

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -24.834574 -193.914422 -9.763083
-484.202753 -68.232160 -2179.117
0.25000 -24.834574 -178.909448 -9.763083
-456.044737 -64.438102 -2152.725
0.50000 -24.834574 -164.593577 -9.763083
-427.106949 -61.810102 -2290.002
0.75000 -24.834574 -151.310631 -9.763083
-404.449444 -60.702384 -2495.106
1.00000 -24.834574 -139.317944 -9.763083
-397.650054 -61.314819 -2752.942

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.595346 300.180983 9.200636
126.524891 52.404584 1640.924
0.25000 14.595346 322.636126 9.200636
126.524891 46.170887 1538.357
0.50000 14.595346 346.414805 9.200636
126.524891 40.577248 1441.965
0.75000 14.595346 371.057191 9.200636
126.524891 36.032061 1334.186
1.00000 14.595346 396.096278 9.200636
126.524891 32.715698 1217.954

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.273676 -159.291458 -0.846598
-542.100355 -35.998307 -920.798576
0.25000 -13.273676 -141.082994 -0.846598
-546.491035 -30.472194 -1007.215
0.50000 -13.273676 -123.617222 -0.846598
-550.881715 -25.325667 -1147.575
0.75000 -13.273676 -107.367919 -0.846598
-555.272395 -50.712631 -1316.626
1.00000 -13.273676 -92.700524 -0.846598
-559.663075 -56.756034 -1515.157

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 19.377335 472.222572 13.108002
248.055629 74.100130 2603.298
0.25000 19.377335 498.051696 13.108002
248.055629 65.174623 2385.704
0.50000 19.377335 525.420141 13.108002
248.055629 57.190368 2208.215
0.75000 19.377335 553.816821 13.108002
248.055629 50.705032 2046.676
1.00000 19.377335 582.716623 13.108002
248.055629 45.773501 1898.626

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.712898 -217.349477 -1.405494
-658.620116 -49.633015 -1606.654
0.25000 -16.712898 -196.076809 -1.405494
-659.105870 -55.771316 -1722.320
0.50000 -16.712898 -175.699212 -1.405494
-659.591624 -62.539798 -1933.509
0.75000 -16.712898 -156.752345 -1.405494
-660.077378 -70.185880 -2164.369
1.00000 -16.712898 -139.641850 -1.405494
-660.563133 -78.849130 -2499.572

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.727129 531.168069 11.038860
422.837622 70.055514 3041.289
0.25000 22.727129 554.826090 11.038860
422.837622 63.224505 2752.970
0.50000 22.727129 579.895063 11.038860
422.837622 57.440895 2512.559
0.75000 22.727129 605.909895 11.038860
422.837622 52.986117 2330.770
1.00000 22.727129 632.390397 11.038860
422.837622 50.304277 2159.537

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -20.016215 -225.347853 -3.797742
-599.943554 -57.145705 -2025.983
0.25000 -20.016215 -205.826064 -3.797742
-599.858977 -59.858348 -2120.227
0.50000 -20.016215 -187.128766 -3.797742
-599.774400 -63.459779 -2335.774
0.75000 -20.016215 -169.745599 -3.797742
-599.689823 -68.249189 -2617.547
1.00000 -20.016215 -154.046223 -3.797742
-599.605246 -74.399641 -2960.940

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 27.911355 495.969788 9.461429
580.998210 70.277336 2976.126
0.25000 27.911355 515.691518 9.461429
580.998210 67.123754 2684.803
0.50000 27.911355 536.589506 9.461429
580.998210 65.167388 2454.865
0.75000 27.911355 558.276113 9.461429
580.998210 64.841591 2262.110
1.00000 27.911355 580.351072 9.461429
580.998210 66.433145 2103.244

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.366621 -210.814827 -8.741628
-564.666772 -71.846542 -2174.272
0.25000 -25.366621 -194.539869 -8.741628
-564.578648 -69.837715 -2237.886
0.50000 -25.366621 -178.952376 -8.741628
-564.490524 -69.032660 -2412.090
0.75000 -25.366621 -164.460489 -8.741628
-564.402400 -69.801789 -2654.422
1.00000 -25.366621 -151.372300 -8.741628
-564.314276 -72.327937 -2955.063

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 19.537370 451.171364 9.644163
581.914737 64.758344 2985.457
0.25000 19.537370 477.555909 9.644163
581.933978 55.582783 2732.641
0.50000 19.537370 505.516224 9.644163
581.960745 48.656322 2463.848
0.75000 19.537370 534.484668 9.644163
581.991222 45.896868 2185.322
1.00000 19.537370 563.950821 9.644163
606.348128 44.179264 1896.044

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.809101 -223.214478 -9.989709
-573.038603 -57.978683 -1696.099
0.25000 -18.809101 -191.733627 -9.989709
-573.038603 -55.417756 -1790.213
0.50000 -18.809101 -164.016714 -9.989709
-573.038603 -53.525104 -1884.366
0.75000 -18.809101 -138.090242 -9.989709
-573.038603 -52.304589 -1979.026
1.00000 -18.809101 -114.366041 -9.989709
-573.038603 -52.581277 -2076.322

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 28.155114 531.168069 13.108002
711.243477 74.100130 3041.289
0.25000 28.155114 554.826090 13.108002
711.632942 67.123754 2752.970
0.50000 28.155114 579.895063 13.108002
712.065260 65.167388 2527.259
0.75000 28.155114 605.909895 13.108002
712.531205 67.180583 2330.770
1.00000 28.155114 632.390397 13.108002
732.011759 71.834286 2159.537

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.366621 -225.347853 -13.292567
-658.620116 -71.846542 -2174.272
0.25000 -25.366621 -205.826064 -13.292567
-659.105870 -69.837715 -2237.886
0.50000 -25.366621 -187.128766 -13.292567
-659.591624 -69.032660 -2412.090
0.75000 -25.366621 -169.745599 -13.292567
-660.077378 -70.185880 -2654.422
1.00000 -25.366621 -154.046223 -13.292567
-660.563133 -78.849130 -2960.940

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 28.155114 531.168069 13.108002
711.243477 74.100130 3041.289
0.25000 28.155114 554.826090 13.108002
711.632942 67.123754 2752.970
0.50000 28.155114 579.895063 13.108002
712.065260 65.167388 2527.259
0.75000 28.155114 605.909895 13.108002
712.531205 67.180583 2330.770
1.00000 28.155114 632.390397 13.108002
732.011759 71.834286 2159.537

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.366621 -225.347853 -13.292567
-658.620116 -71.846542 -2174.272
0.25000 -25.366621 -205.826064 -13.292567
-659.105870 -69.837715 -2237.886
0.50000 -25.366621 -187.128766 -13.292567
-659.591624 -69.032660 -2412.090
0.75000 -25.366621 -169.745599 -13.292567
-660.077378 -70.185880 -2654.422
1.00000 -25.366621 -154.046223 -13.292567
-660.563133 -78.849130 -2960.940

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 28.155114 531.168069 13.108002
711.243477 74.100130 3041.289
0.25000 28.155114 554.826090 13.108002
711.632942 67.123754 2752.970
0.50000 28.155114 579.895063 13.108002
712.065260 65.167388 2527.259
0.75000 28.155114 605.909895 13.108002
712.531205 67.180583 2330.770
1.00000 28.155114 632.390397 13.108002
732.011759 71.834286 2159.537

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.366621 -225.347853 -13.292567
-658.620116 -71.846542 -2174.272
0.25000 -25.366621 -205.826064 -13.292567
-659.105870 -69.837715 -2237.886
0.50000 -25.366621 -187.128766 -13.292567
-659.591624 -69.032660 -2412.090
0.75000 -25.366621 -169.745599 -13.292567
-660.077378 -70.185880 -2654.422
1.00000 -25.366621 -154.046223 -13.292567
-660.563133 -78.849130 -2960.940

ELEM 136 ========== LENGTH = 4.927666

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.503407 41.177798 1.854712
275.022709 28.781492 226.688296
0.25000 9.503407 41.190701 1.854712
275.042595 28.342009 230.621616
0.50000 9.503407 41.204151 1.854712
275.076341 28.026993 235.009597
0.75000 9.503407 41.217932 1.854712
275.111278 27.868372 239.414277
1.00000 9.503407 41.233279 1.854712
275.151341 27.797444 243.857939

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.375176 -23.907319 -4.568801
-131.967794 -14.791455 -439.121812
0.25000 -9.375176 -23.892333 -4.568801
-131.925627 -11.267792 -416.026101
0.50000 -9.375176 -23.879536 -4.568801
-131.888774 -8.672128 -393.467874
0.75000 -9.375176 -23.867534 -4.568801
-131.853600 -7.291049 -371.596668
1.00000 -9.375176 -23.856601 -4.568801
-131.822062 -7.007248 -350.448870

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.301943 98.456764 1.395822
492.014133 41.842818 429.120000
0.25000 15.301943 98.469663 1.395822
492.033476 44.249094 430.549033
0.50000 15.301943 98.483108 1.395822
492.067177 46.929618 438.448785

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 15.301943 98.496886 1.395822
492.102070 50.124315 447.113208
1.00000 15.301943 98.512225 1.395822
492.142077 54.002874 457.036139

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.105058 -40.282041 -10.128540
-208.652499 -27.404848 -897.646503
0.25000 -15.105058 -40.267066 -10.128540
-208.610389 -17.116667 -868.417962
0.50000 -15.105058 -40.254273 -10.128540
-208.573579 -10.170481 -840.402449
0.75000 -15.105058 -40.242276 -10.128540
-208.538449 -7.941896 -813.321363
1.00000 -15.105058 -40.231342 -10.128540
-208.507154 -8.366991 -787.378028

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.807615 192.714808 1.162930
615.313505 39.944641 736.617552
0.25000 15.807615 192.726118 1.162930
615.331036 41.880686 622.478407
0.50000 15.807615 192.738219 1.162930
615.361377 44.209973 615.875327
0.75000 15.807615 192.750620 1.162930
615.392791 47.145396 633.182013
1.00000 15.807615 192.764427 1.162930
615.428810 50.920238 651.723803

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.578047 -54.899095 -9.872585
-226.366828 -27.680446 -1421.018
0.25000 -15.578047 -54.885615 -9.872585
-226.328916 -18.096148 -1414.372
0.50000 -15.578047 -54.874100 -9.872585
-226.295777 -10.854089 -1440.896
0.75000 -15.578047 -54.864002 -9.872585
-226.264150 -8.178669 -1404.214
1.00000 -15.578047 -54.853459 -9.872585
-226.235879 -7.981473 -1400.727

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 17.460781 338.783823 4.588117
599.687984 42.704224 1269.310
0.25000 17.460781 350.944878 4.588117
599.687984 41.372224 1071.746
0.50000 17.460781 363.654499 4.588117
603.797305 41.482132 954.847315
0.75000 17.460781 376.672549 4.588117
626.480128 44.048136 853.581654
1.00000 17.460781 390.855860 4.588117
655.614323 47.315061 773.243837

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.087716 -111.708046 -8.424261
-403.108475 -41.003320 -1798.938
0.25000 -17.087716 -98.077528 -8.424261
-373.484742 -34.095621 -1840.472
0.50000 -17.087716 -86.123381 -8.424261
-350.725215 -29.141486 -1882.967
0.75000 -17.087716 -74.934544 -8.424261
-326.802910 -28.118792 -1926.124
1.00000 -17.087716 -65.061349 -8.424261
-321.540062 -29.693318 -1970.389

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.378610 83.676840 0.214636
237.746918 10.295574 274.386954

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 5.378610 83.818740 0.214636
237.961185 12.648651 238.043562
0.50000 5.378610 83.966651 0.214636
238.332017 15.851092 244.997990
0.75000 5.378610 84.118220 0.214636
238.715962 19.404226 251.765800
1.00000 5.378610 84.286968 0.214636
239.156193 23.599047 258.514441

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.310704 -20.418845 -5.565150
-73.877050 -12.475311 -593.911666
0.25000 -5.310704 -20.254086 -5.565150
-73.413681 -5.814511 -596.172963
0.50000 -5.310704 -20.113351 -5.565150
-73.008658 -1.860075 -599.044199
0.75000 -5.310704 -19.981369 -5.565150
-72.622101 -1.925961 -602.249524
1.00000 -5.310704 -19.861069 -5.565150
-72.276571 -2.150992 -605.651376

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.463920 229.200899 1.703831
412.534618 13.307704 800.238515
0.25000 7.463920 229.213789 1.703831
412.554097 15.317707 602.781756
0.50000 7.463920 229.227236 1.703831
412.587809 17.950492 536.212540
0.75000 7.463920 229.241015 1.703831
412.622713 21.185455 514.400746
1.00000 7.463920 229.256355 1.703831
412.662734 25.279954 525.373654

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.258696 -40.689329 -5.345748
-136.951567 -19.623616 -1309.745
0.25000 -7.258696 -40.674351 -5.345748
-136.909443 -14.372161 -1345.575
0.50000 -7.258696 -40.661557 -5.345748
-136.872622 -10.974343 -1381.896
0.75000 -7.258696 -40.649559 -5.345748
-136.837481 -10.840485 -1418.357
1.00000 -7.258696 -40.638622 -5.345748
-136.806069 -11.702148 -1455.264

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.925739	243.688939	1.661809
591.751299	32.526469	903.456578	
0.25000	13.925739	243.700549	1.661809
591.768830	34.958576	728.667823	
0.50000	13.925739	243.712651	1.661809
591.799171	37.961906	673.465789	
0.75000	13.925739	243.725052	1.661809
591.830584	41.511989	657.825516	
1.00000	13.925739	243.738859	1.661809
591.866603	45.766307	671.813418	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.651142	-54.103228	-9.094200
-221.371876	-29.544976	-1554.143	
0.25000	-13.651142	-54.089747	-9.094200
-221.333964	-20.309152	-1570.077	
0.50000	-13.651142	-54.078233	-9.094200
-221.300826	-13.423387	-1587.124	
0.75000	-13.651142	-54.067434	-9.094200
-221.269198	-13.401708	-1604.748	
1.00000	-13.651142	-54.057291	-9.094200
-221.240928	-14.330769	-1623.537	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1640

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.740754	413.474834	5.478057
571.820194	41.557848	1509.252	
0.25000	17.740754	432.334755	5.478057
571.820194	38.988060	1273.229	
0.50000	17.740754	452.082458	5.478057
571.820194	37.117970	1109.177	
0.75000	17.740754	472.363404	5.478057
571.820194	39.169340	949.150506	
1.00000	17.740754	493.778171	5.478057
574.029452	42.813111	809.697802	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.341724	-134.614078	-7.731822
-456.120954	-46.403674	-1946.083	
0.25000	-17.341724	-114.496889	-7.731822
-430.715601	-39.919841	-2019.204	
0.50000	-17.341724	-96.181055	-7.731822
-405.571678	-35.380545	-2093.266	
0.75000	-17.341724	-79.081335	-7.731822
-405.571678	-36.545308	-2167.997	
1.00000	-17.341724	-65.255720	-7.731822
-405.571678	-38.366596	-2243.777	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.664236	338.346278	6.954689
169.679091	26.955678	1213.786	
0.25000	10.664236	362.945685	6.954689
169.679091	20.260542	1041.291	
0.50000	10.664236	388.845129	6.954689
169.679091	14.472849	838.530869	
0.75000	10.664236	415.506062	6.954689
169.679091	9.813746	605.501215	
1.00000	10.664236	441.997369	6.954689
169.679091	7.261821	388.723899	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.373014	-110.951676	-0.557457
-481.236639	-36.524324	-1019.322	
0.25000	-10.373014	-87.049344	-0.557457
-481.236639	-38.215531	-1120.874	
0.50000	-10.373014	-63.709208	-0.557457
-481.236639	-39.995588	-1222.788	
0.75000	-10.373014	-42.037568	-0.557457
-481.236639	-41.861210	-1324.965	
1.00000	-10.373014	-27.728130	-0.557457
-481.236639	-43.733359	-1427.210	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.649072	501.654501	10.532213
306.119953	33.842866	1816.941	
0.25000	13.649072	530.884092	10.532213
306.119953	25.862583	1510.785	
0.50000	13.649072	561.596696	10.532213
306.119953	19.104837	1196.866	
0.75000	13.649072	593.193156	10.532213
306.119953	13.513679	890.656005	
1.00000	13.649072	625.147578	10.532213
306.119953	13.049779	638.458733	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.186564	-149.154155	-0.573497
-569.193291	-51.965378	-1696.011	
0.25000	-13.186564	-120.118039	-0.573497
-569.193291	-54.464847	-1837.770	
0.50000	-13.186564	-92.206009	-0.573497
-569.193291	-57.732810	-1979.842	
0.75000	-13.186564	-66.252986	-0.573497
-569.193291	-61.570077	-2122.328	
1.00000	-13.186564	-47.966075	-0.573497
-569.193291	-66.271611	-2264.886	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1641

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.560189	533.224642	8.430183
461.206038	34.359110	1896.705	
0.25000	15.560189	560.020298	8.430183
461.206038	28.064736	1548.908	
0.50000	15.560189	588.169744	8.430183
461.206038	23.008614	1286.405	
0.75000	15.560189	617.127499	8.430183
461.206038	19.361139	1025.231	
1.00000	15.560189	646.465378	8.430183
461.206038	21.055842	803.888374	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.105484	-153.891841	-3.180426
-553.790290	-50.364037	-2076.834	
0.25000	-15.105484	-127.214591	-3.180426
-553.790290	-49.696929	-2213.232	
0.50000	-15.105484	-101.610184	-3.180426
-553.790290	-49.610604	-2350.049	
0.75000	-15.105484	-77.802981	-3.180426
-553.790290	-51.158523	-2487.258	
1.00000	-15.105484	-60.916040	-3.180426
-553.790290	-53.655499	-2624.888	

COMB DB-G4-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.535475	481.816126	7.134437
569.592337	43.049425	1735.196	
0.25000	18.535475	504.156355	7.134437
569.592337	39.438967	1450.907	
0.50000	18.535475	527.625082	7.134437
569.592337	36.887713	1235.394	
0.75000	18.535475	551.767653	7.134437
569.592337	35.645452	1021.922	
1.00000	18.535475	576.228872	7.134437
569.592337	39.145229	841.463612	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.091046	-142.194151	-7.009719
-535.437231	-52.298833	-2073.998	
0.25000	-18.091046	-119.950679	-7.009719
-535.437231	-46.691656	-2177.176	
0.50000	-18.091046	-98.603073	-7.009719
-535.437231	-43.658064	-2281.243	
0.75000	-18.091046	-78.753887	-7.009719
-535.437231	-45.152931	-2386.063	
1.00000	-18.091046	-64.670724	-7.009719
-535.437231	-47.368135	-2491.519	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.036652	57.018205	1.686402
367.625866	44.749861	445.245397	
0.25000	15.036652	57.026356	1.686402
367.640144	45.616112	435.890466	
0.50000	15.036652	57.034986	1.686402
367.655893	47.024413	434.280111	
0.75000	15.036652	57.043980	1.686402
367.672773	49.030979	440.332632	
1.00000	15.036652	57.053140	1.686402
367.690433	51.451696	453.245312	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.513367	-48.819543	-4.772232
-209.630906	-16.554239	-545.858776	
0.25000	-13.513367	-48.812957	-4.772232
-209.611597	-13.680333	-534.326773	
0.50000	-13.513367	-48.806780	-4.772232
-209.593208	-11.616435	-534.980733	
0.75000	-13.513367	-48.801080	-4.772232
-209.576134	-10.592999	-545.267268	
1.00000	-13.513367	-48.796028	-4.772232
-209.560677	-10.405474	-563.622224	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1642

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.412022	131.695419	1.410888
648.926934	67.726599	828.249043	
0.25000	23.412022	131.703568	1.410888
648.941182	74.364166	804.725072	
0.50000	23.412022	131.712196	1.410888
648.956898	82.677936	800.896136	
0.75000	23.412022	131.721168	1.410888
648.973744	93.052045	814.631238	
1.00000	23.412022	131.730345	1.410888
648.991369	104.684848	843.251085	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.051166	-82.494919	-12.830467
-322.242466	-28.066766	-1133.063	
0.25000	-22.051166	-82.488337	-12.830467
-322.223186	-19.871114	-1147.858	
0.50000	-22.051166	-82.482139	-12.830467
-322.204824	-14.062033	-1186.826	
0.75000	-22.051166	-82.476467	-12.830467
-322.187775	-12.206202	-1247.443	
1.00000	-22.051166	-82.471417	-12.830467
-322.172341	-11.706890	-1323.445	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	24.272235	265.770744	1.425587
776.248012	66.841534	1286.829	
0.25000	24.272235	266.005432	1.425587
776.658108	72.321406	1208.052	
0.50000	24.272235	266.253902	1.425587
777.110497	79.464448	1177.641	
0.75000	24.272235	266.512294	1.425587
777.595416	88.465393	1193.934	
1.00000	24.272235	266.776580	1.425587
778.102758	98.930729	1236.670	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.319446	-108.035609	-12.265425
-337.110469	-30.832769	-1888.657	
0.25000	-22.319446	-107.846090	-12.265425
-336.555426	-22.499092	-1995.428	
0.50000	-22.319446	-107.667627	-12.265425
-336.026784	-16.363429	-2141.697	
0.75000	-22.319446	-107.504277	-12.265425
-335.535954	-13.501412	-2324.401	
1.00000	-22.319446	-107.358884	-12.265425
-335.091598	-12.659683	-2538.726	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.235930	429.082612	5.873411
749.835918	69.531375	1739.532	
0.25000	26.235930	441.346624	5.873411
758.891614	71.352476	1628.158	
0.50000	26.235930	453.877262	5.873411
777.983870	75.473949	1558.129	
0.75000	26.235930	467.106233	5.873411
798.583632	82.737270	1532.529	
1.00000	26.235930	480.613144	5.873411
820.156017	91.821124	1534.849	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.660566	-161.778111	-10.548589
-525.075454	-51.306482	-2443.330	
0.25000	-23.660566	-152.435840	-10.548589
-500.057911	-47.008236	-2672.165	
0.50000	-23.660566	-143.626478	-10.548589
-476.178999	-45.143581	-2952.204	
0.75000	-23.660566	-135.553719	-10.548589
-453.980813	-46.722419	-3280.793	
1.00000	-23.660566	-128.383166	-10.548589
-433.905898	-50.888332	-3658.027	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1643

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.731597	107.766043	0.238169
297.364705	19.145271	483.522243	
0.25000	7.731597	107.847536	0.238169
297.507178	24.739925	452.677231	
0.50000	7.731597	107.933816	0.238169
297.664339	31.737264	448.491274	
0.75000	7.731597	108.023540	0.238169
297.832799	40.288297	457.026027	
1.00000	7.731597	108.115312	0.238169
298.009048	49.554185	475.978982	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.848947	-37.744338	-8.168343
-102.396802	-11.004394	-770.099348	
0.25000	-7.848947	-37.678522	-8.168343
-102.204006	-6.101651	-822.799627	
0.50000	-7.848947	-37.616545	-8.168343
-102.020383	-2.500182	-891.007958	
0.75000	-7.848947	-37.559818	-8.168343
-101.849894	-2.613499	-974.004381	
1.00000	-7.848947	-37.509327	-8.168343
-101.695547	-2.822591	-1069.499	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.080526	302.726782	2.329469
477.386080	26.362524	1150.686	
0.25000	11.080526	302.734932	2.329469
477.400351	29.878996	1039.144	
0.50000	11.080526	302.743561	2.329469
477.416092	35.156738	985.497237	
0.75000	11.080526	302.752535	2.329469
477.432963	42.056264	989.519237	
1.00000	11.080526	302.761714	2.329469
477.450615	50.012839	1027.749	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.002909	-75.463428	-7.546770
-164.845956	-23.235851	-1782.020	
0.25000	-10.002909	-75.456843	-7.546770
-164.826655	-19.272409	-1961.007	
0.50000	-10.002909	-75.450643	-7.546770
-164.808273	-17.272624	-2176.529	
0.75000	-10.002909	-75.444968	-7.546770
-164.791205	-18.024460	-2427.383	
1.00000	-10.002909	-75.439916	-7.546770
-164.775753	-20.046260	-2711.791	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.020801	323.729162	2.266010
722.980286	56.278148	1391.991	
0.25000	21.020801	323.736497	2.266010
723.993129	61.668649	1282.681	
0.50000	21.020801	323.744264	2.266010
723.007296	69.814733	1233.289	
0.75000	21.020801	323.752340	2.266010
723.022480	80.004165	1242.690	
1.00000	21.020801	323.760601	2.266010
723.038367	91.923867	1289.143	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.372925	-105.058763	-12.154726
-302.122753	-33.233555	-2150.407	
0.25000	-19.372925	-105.052837	-12.154726
-302.105381	-25.835204	-2303.699	
0.50000	-19.372925	-105.047256	-12.154726
-302.088837	-20.771431	-2497.063	
0.75000	-19.372925	-105.042149	-12.154726
-302.073477	-20.592773	-2732.774	
1.00000	-19.372925	-105.037602	-12.154726
-302.059570	-22.606908	-2998.081	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1644

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.791437	515.188190	6.913986
718.947053	64.958733	1927.053	
0.25000	25.791437	533.867122	6.913986
718.950738	66.015315	1797.898	
0.50000	25.791437	553.572291	6.913986
719.743832	69.468683	1707.815	
0.75000	25.791437	573.980068	6.913986
721.768285	76.050160	1657.298	
1.00000	25.791437	594.759443	6.913986
744.938225	85.772306	1632.960	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.600160	-179.516415	-10.400972
-595.577164	-60.605726	-2752.423	
0.25000	-23.600160	-165.930422	-10.400972
-566.520535	-57.014918	-3051.002	
0.50000	-23.600160	-153.085567	-10.400972
-537.125042	-55.718418	-3403.658	
0.75000	-23.600160	-141.316256	-10.400972
-526.894096	-58.986043	-3813.510	
1.00000	-23.600160	-130.868312	-10.400972
-521.098727	-64.772293	-4274.292	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.176678	401.777428	8.100164
243.128511	31.486615	1218.959	
0.25000	14.176678	426.573952	8.100164
243.128511	26.187826	1132.627	
0.50000	14.176678	452.649437	8.100164
243.128511	21.689449	1040.903	
0.75000	14.176678	479.542378	8.100164
243.128511	18.486379	947.986652	
1.00000	14.176678	506.783997	8.100164
243.128511	16.703724	859.508478	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.075992	-119.777782	-0.818227
-588.813431	-56.093851	-1514.241	
0.25000	-13.075992	-103.886150	-0.818227
-593.203530	-59.978833	-1795.962	
0.50000	-13.075992	-88.797441	-0.818227
-597.593629	-64.512529	-2111.888	
0.75000	-13.075992	-74.936668	-0.818227
-601.983727	-69.802342	-2464.179	
1.00000	-13.075992	-62.699120	-0.818227
-606.373738	-75.855267	-2859.114	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.840482	607.898114	12.786236
389.612441	43.941231	1899.527	
0.25000	18.840482	636.275026	12.786236
389.612441	36.897277	1739.949	
0.50000	18.840482	666.128691	12.786236
389.612441	31.802128	1593.810	
0.75000	18.840482	696.951168	12.786236
389.612441	28.488011	1481.662	
1.00000	18.840482	728.208784	12.786236
389.612441	26.834112	1395.882	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.544368	-168.841267	-1.103197
-695.959176	-77.960466	-2498.611	
0.25000	-16.544368	-150.100272	-1.103197
-696.444866	-84.637863	-2911.301	
0.50000	-16.544368	-132.335666	-1.103197
-696.930556	-93.106265	-3377.063	
0.75000	-16.544368	-116.020274	-1.103197
-697.416246	-102.977661	-3904.202	
1.00000	-16.544368	-101.594090	-1.103197
-697.901926	-114.422372	-4490.470	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1645

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.579387	656.394579	10.404256
573.860750	47.832443	2159.752	
0.25000	21.579387	682.368050	10.404256
573.860750	43.481911	1978.093	
0.50000	21.579387	709.695132	10.404256
573.860750	41.234741	1840.659	
0.75000	21.579387	737.912666	10.404256
573.860750	41.180083	1747.093	
1.00000	21.579387	766.531268	10.404256
573.860750	43.420522	1685.331	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.347554	-184.387595	-4.715425
-684.842147	-73.725318	-2960.292	
0.25000	-19.347554	-167.169380	-4.715425
-684.757581	-75.980781	-3398.011	
0.50000	-19.347554	-150.851303	-4.715425
-684.673015	-79.916357	-3898.890	
0.75000	-19.347554	-135.864772	-4.715425
-684.588449	-86.015277	-4464.901	
1.00000	-19.347554	-122.611182	-4.715425
-684.503885	-94.370087	-5101.789	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.274357	597.021944	8.809619
722.410369	63.857231	2102.857	
0.25000	26.274357	618.673299	8.809619
722.410369	64.067186	1943.954	
0.50000	26.274357	641.453080	8.809619
722.410369	66.937303	1828.299	
0.75000	26.274357	664.975755	8.809619
722.410369	72.974934	1756.266	
1.00000	26.274357	688.832400	8.809619
722.410369	81.359167	1716.501	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.277434	-183.298543	-10.166188
-684.178132	-71.515073	-2954.378	
0.25000	-24.277434	-168.943815	-10.166188
-684.090020	-69.214718	-3320.995	
0.50000	-24.277434	-155.339215	-10.166188
-684.001907	-69.608859	-3747.757	
0.75000	-24.277434	-142.844200	-10.166188
-683.913795	-74.667308	-4236.154	
1.00000	-24.277434	-131.794434	-10.166188
-683.825684	-81.754731	-4789.654	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.535475	533.224642	10.532213
615.313505	43.049425	1896.705	
0.25000	18.535475	560.020298	10.532213
615.331036	44.249094	1548.908	
0.50000	18.535475	588.169744	10.532213
615.361377	46.929618	1286.405	
0.75000	18.535475	617.127499	10.532213
626.480128	50.124315	1025.231	
1.00000	18.535475	646.465378	10.532213
655.614323	54.002874	841.463612	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.091046	-153.891841	-10.128540
-569.193291	-52.298833	-2076.834	
0.25000	-18.091046	-127.214591	-10.128540
-569.193291	-54.464847	-2213.232	
0.50000	-18.091046	-101.610184	-10.128540
-569.193291	-57.732810	-2350.049	
0.75000	-18.091046	-79.081335	-10.128540
-569.193291	-61.570077	-2487.258	
1.00000	-18.091046	-65.255720	-10.128540
-569.193291	-66.271611	-2624.888	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1646

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.274357	656.394579	12.786236
776.248012	69.531375	2159.752	
0.25000	26.274357	682.368050	12.786236
776.658108	74.364166	1978.093	
0.50000	26.274357	709.695132	12.786236
777.983870	82.677936	1840.659	
0.75000	26.274357	737.912666	12.786236
798.583632	93.052045	1756.266	
1.00000	26.274357	766.531268	12.786236
820.156017	104.684848	1716.501	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.277434	-184.387595	-12.830467
-695.959176	-77.960466	-2960.292	
0.25000	-24.277434	-168.943815	-12.830467
-696.444866	-84.637863	-3398.011	
0.50000	-24.277434	-155.339215	-12.830467
-696.930556	-93.106265	-3898.890	
0.75000	-24.277434	-142.844200	-12.830467
-697.416246	-102.977661	-4464.901	
1.00000	-24.277434	-131.794434	-12.830467
-697.901926	-114.422372	-5101.789	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.274357	656.394579	12.786236
776.248012	69.531375	2159.752	
0.25000	26.274357	682.368050	12.786236
776.658108	74.364166	1978.093	
0.50000	26.274357	709.695132	12.786236
777.983870	82.677936	1840.659	
0.75000	26.274357	737.912666	12.786236

```
798.583632    93.052045    1756.266
 1.00000    26.274357   766.531268    12.786236
820.156017   104.684848    1716.501

 COMB      CAR  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -24.277434  -184.387595   -12.830467
-695.959176   -77.960466   -2960.292
 0.25000   -24.277434  -168.943815   -12.830467
-696.444866   -84.637863   -3398.011
 0.50000   -24.277434  -155.339215   -12.830467
-696.930556   -93.106265   -3898.890
 0.75000   -24.277434  -142.844200   -12.830467
-697.416246  -102.977661   -4464.901
 1.00000   -24.277434  -131.794434   -12.830467
-697.901926  -114.422372   -5101.789

 COMB   DESIGN  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    26.274357   656.394579    12.786236
776.248012    69.531375    2159.752
 0.25000    26.274357   682.368050    12.786236
776.658108    74.364166    1978.093
 0.50000    26.274357   709.695132    12.786236
777.983870    82.677936    1840.659
 0.75000    26.274357   737.912666    12.786236
798.583632    93.052045    1756.266
 1.00000    26.274357   766.531268    12.786236
820.156017   104.684848    1716.501

 COMB   DESIGN  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -24.277434  -184.387595   -12.830467
-695.959176   -77.960466   -2960.292
 0.25000   -24.277434  -168.943815   -12.830467
-696.444866   -84.637863   -3398.011
 0.50000   -24.277434  -155.339215   -12.830467
-696.930556   -93.106265   -3898.890
 0.75000   -24.277434  -142.844200   -12.830467
-697.416246  -102.977661   -4464.901
 1.00000   -24.277434  -131.794434   -12.830467
-697.901926  -114.422372   -5101.789
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1647

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      137 ================== LENGTH
=    3.449731

 COMB DB-G1-1  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    8.825103    32.040383    2.749130
253.575174    28.598745   243.793499
 0.25000    8.825103    32.050188    2.749130
253.600625    27.526340   244.547305
 0.50000    8.825103    32.060100    2.749130
253.626551    26.775111   245.358498
 0.75000    8.825103    32.070067    2.749130
253.653047    26.067171   246.187307
 1.00000    8.825103    32.079882    2.749130
253.679546    29.553500   247.016116

 COMB DB-G1-1  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -8.839612   -42.756622    -3.347262
-199.618266    -7.257016  -349.928986
 0.25000   -8.839612   -42.747067    -3.347262
-199.589471    -6.804928  -319.768957
 0.50000   -8.839612   -42.737915    -3.347262
-199.562027    -6.611718  -290.456026
 0.75000   -8.839612   -42.731130    -3.347262
-199.535849    -6.691026  -262.337393
 1.00000   -8.839612   -42.726801    -3.347262
-199.513718    -7.162539  -235.487179

 COMB DB-G1-2  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   14.195835    79.671241    2.961969
444.631162    55.133535   456.942738
 0.25000   14.195835    79.681043    2.961969
444.656580    54.700898   460.737103
 0.50000   14.195835    79.690952    2.961969
444.682474    54.695398   464.578295
 0.75000   14.195835    79.700915    2.961969
444.708938    57.466131   468.475407
 1.00000   14.195835    79.710727    2.961969
444.735366    61.141854   472.372519

 COMB DB-G1-2  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -14.226136   -77.003687    -7.428838
-339.144042    -6.411534  -786.544586
 0.25000   -14.226136   -76.994137    -7.428838
-339.115280    -6.517550  -739.301537
 0.50000   -14.226136   -76.984990    -7.428838
-339.087893    -6.624686  -693.590571
 0.75000   -14.226136   -76.978235    -7.428838
-339.061746    -6.733581  -649.876239
 1.00000   -14.226136   -76.973939    -7.428838
-339.040126    -6.844015  -607.849105

 COMB DB-G1-3  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   14.617207   171.010434    3.017876
553.120014    50.577721   651.645402
 0.25000   14.617207   171.019256    3.017876
553.142898    50.579569   661.500482
 0.50000   14.617207   171.028175    3.017876
553.166209    50.813016   671.394584
 0.75000   14.617207   171.037142    3.017876
553.190035    53.695906   681.338946
 1.00000   14.617207   171.045974    3.017876
553.213836    57.116394   691.283307

 COMB DB-G1-3  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -14.632785   -88.786293    -7.126333
-404.571851    -5.901512   -1399.870
 0.25000   -14.632785   -88.777697    -7.126333
-404.545957    -5.662796   -1363.210
 0.50000   -14.632785   -88.769464    -7.126333
-404.521296    -5.737822   -1328.279
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1648

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST              P              V2              V3
        T              M2              M3
 0.75000   -14.632785   -88.763378    -7.126333
-404.497757    -5.829334   -1295.175
 1.00000   -14.632785   -88.759504    -7.126333
-404.478184    -5.920922   -1263.640

 COMB DB-G1-4  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   16.337610   353.931033    5.069467
583.421217    47.079474   773.183545
 0.25000   16.337610   363.121463    5.069467
583.420534    46.929706   770.694315
 0.50000   16.337610   372.432576    5.069467
593.447377    47.136044   786.737799
 0.75000   16.337610   381.812730    5.069467
611.464130    49.554253   802.831325
 1.00000   16.337610   391.060604    5.069467
628.352242    52.420422   818.924852

 COMB DB-G1-4  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -16.252707  -113.492840    -6.555958
-516.616820   -27.610455   -1969.941
 0.25000  -16.252707  -104.718655    -6.555958
-499.249722   -27.710306   -1981.262
 0.50000  -16.252707   -97.954748    -6.555958
-481.327944   -28.005800   -1994.062
 0.75000  -16.252707   -92.769384    -6.555958
-467.169674   -28.359500   -2008.347
 1.00000  -16.252707   -91.885087    -6.555958
-467.169674   -28.754532   -2024.007

 COMB DB-G2-1  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    4.967737    73.330487    0.134726
207.317965    23.866536   258.493512
 0.25000    4.967737    73.438320    0.134726
207.597656    24.270542   263.181423
 0.50000    4.967737    73.547320    0.134726
207.882576    25.765687   268.066808
 0.75000    4.967737    73.656926    0.134726
208.173774    27.226073   272.961927
 1.00000    4.967737    73.764868    0.134726
208.464677    29.628931   277.857046

 COMB DB-G2-1  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -4.975582   -36.989640    -4.059475
-147.431647   -1.508080   -605.364711
 0.25000   -4.975582   -36.884579    -4.059475
-147.115173   -1.674387   -593.323578
 0.50000   -4.975582   -36.783947    -4.059475
-146.813762   -1.762567   -582.031555
 0.75000   -4.975582   -36.709559    -4.059475
-146.526056   -1.851053   -571.291481
 1.00000   -4.975582   -36.680239    -4.059475
-146.286831   -1.939943   -560.929153

 COMB DB-G2-2  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    6.929431   223.009890    1.442187
380.565205    24.100866   525.373147
 0.25000    6.929431   223.018863    1.442187
380.590631    25.150685   538.433540
 0.50000    6.929431   223.028772    1.442187
380.616533    26.466905   551.516622
 0.75000    6.929431   223.038736    1.442187
380.643006    27.989399   564.608684
 1.00000    6.929431   223.048549    1.442187
380.669451    29.897769   577.700746

 COMB DB-G2-2  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -6.877852   -55.742373    -3.825134
-262.169723   -10.740058   -1454.977
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1649

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST              P              V2              V3
        T              M2              M3
 0.25000   -6.877852   -55.732822    -3.825134
-262.140953   -11.157400   -1462.410
 0.50000   -6.877852   -55.723673    -3.825134
-262.113552   -11.762074   -1470.647
 0.75000   -6.877852   -55.716911    -3.825134
-262.087396   -12.408555   -1479.303
 1.00000   -6.877852   -55.712607    -3.825134
-262.065649   -13.094146   -1488.508

 COMB DB-G2-3  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   12.925948   229.922585    2.566279
543.015600    45.341954   671.766717
 0.25000   12.925948   229.931408    2.566279
543.038484    45.575928   684.713624
 0.50000   12.925948   229.940326    2.566279
543.061795    46.114374   697.679943
 0.75000   12.925948   229.949294    2.566279
543.085620    48.502267   710.670569
 1.00000   12.925948   229.958125    2.566279
543.109422    51.848632   723.686700

 COMB DB-G2-3  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -12.895554   -84.111516    -6.563273
-391.017276   -12.520572   -1622.881
 0.25000  -12.895554   -84.102920    -6.563273
-390.991383   -12.991432   -1606.167
 0.50000  -12.895554   -84.094686    -6.563273
-390.966722   -13.560549   -1590.999
 0.75000  -12.895554   -84.088600    -6.563273
-390.943183   -14.167414   -1576.848
 1.00000  -12.895554   -84.084726    -6.563273
-390.923610   -14.809654   -1564.307

 COMB DB-G2-4  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   16.684960   455.668517    5.226612
592.290565    42.332289   809.727357
 0.25000   16.684960   469.815012    5.226612
592.290565    42.526101   796.004272
 0.50000   16.684960   484.191654    5.226612
592.290565    42.966311   815.320833
 0.75000   16.684960   498.711247    5.226612
592.290565    44.950174   834.670054
 1.00000   16.684960   513.047200    5.226612
593.025610    47.726551   854.040518

 COMB DB-G2-4  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -16.556053  -108.468298    -6.625355
-535.812938   -36.446790   -2243.689
 0.25000  -16.556053   -98.463137    -6.625355
-520.143866   -36.374399   -2289.616
 0.50000  -16.556053   -90.696574    -6.625355
-520.143866   -36.488089   -2336.802
 0.75000  -16.556053   -88.422599    -6.625355
-520.143866   -36.662346   -2385.029
 1.00000  -16.556053   -88.422599    -6.625355
-520.143866   -36.899566   -2434.727

 COMB DB-G3-1  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   10.268719   436.297683    5.122483
302.904607    7.082070   388.998243
 0.25000   10.268719   454.479940    5.122483
302.904607    7.094910   348.379634
 0.50000   10.268719   473.082517    5.122483
302.904607    7.107963   361.856253
 0.75000   10.268719   491.961489    5.122483
302.904607    7.121685   375.348757
 1.00000   10.268719   510.652371    5.122483
302.904607    7.136688   388.841260
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1650

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -10.079084   -31.199329    -2.554548
-421.150139   -43.170240   -1428.088
 0.25000  -10.079084   -28.616962    -2.554548
-421.150139   -42.695358   -1535.785
 0.50000  -10.079084   -28.616962    -2.554548
-421.150139   -42.323995   -1643.567
 0.75000  -10.079084   -28.616962    -2.554548
-421.150139   -42.040685   -1751.350
 1.00000  -10.079084   -28.616962    -2.554548
-421.150139   -41.824842   -1859.224

 COMB DB-G3-2  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   13.144798   616.309667    7.432232
454.767170    12.731873   638.746657
 0.25000   13.144798   638.008626    7.432232
454.767170    12.753342   600.009640
 0.50000   13.144798   660.154500    7.432232
454.767170    12.781093   621.643965
 0.75000   13.144798   682.598070    7.432232
454.767170    12.813589   643.297405
 1.00000   13.144798   704.802839    7.432232
454.767170    12.858706   664.951117

 COMB DB-G3-2  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -12.875287   -59.202851    -2.908209
-536.921653   -65.464341   -2265.871
 0.25000  -12.875287   -49.014811    -2.908209
-536.921653   -65.922800   -2402.954
 0.50000  -12.875287   -49.014811    -2.908209
-536.921653   -66.471838   -2540.479
 0.75000  -12.875287   -49.014811    -2.908209
-536.921653   -67.174319   -2678.016
 1.00000  -12.875287   -49.014811    -2.908209
-536.921653   -67.971055   -2815.655

 COMB DB-G3-3  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   14.818706   627.906016    6.408825
567.375990    19.690513   804.137661
 0.25000   14.818706   647.806898    6.408825
567.375990    20.212972   773.722950
 0.50000   14.818706   668.112582    6.408825
567.375990    21.061494   798.294102
 0.75000   14.818706   688.688319    6.408825
567.375990    21.931634   822.883042
 1.00000   14.818706   709.043718    6.408825
567.375990    22.926107   847.471982

 COMB DB-G3-3  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -14.578621   -78.500768    -4.448587
-589.107627   -52.471165   -2625.582
 0.25000  -14.578621   -68.499833    -4.448587
-589.107627   -52.385941   -2744.366
 0.50000  -14.578621   -68.499833    -4.448587
-589.107627   -52.429085   -2864.201
 0.75000  -14.578621   -68.499833    -4.448587
-589.107627   -52.601062   -2984.114
 1.00000  -14.578621   -68.499833    -4.448587
-589.107627   -52.845372   -3104.456

 COMB DB-G3-4  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   17.510920   552.839107    5.846552
638.218331    38.460855   841.639424
 0.25000   17.510920   569.430276    5.846552
638.218331    38.992774   817.931519
 0.50000   17.510920   586.359777    5.846552
638.218331    39.736363   840.059266
 0.75000   17.510920   603.514334    5.846552
638.218331    41.409697   862.756587
 1.00000   17.510920   620.485142    5.846552
638.218331    43.973341   884.373363
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1651

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -17.329046   -94.296516    -6.882980
-615.633779   -45.609183   -2491.794
 0.25000  -17.329046   -85.936477    -6.882980
-615.633779   -45.481038   -2572.952
 0.50000  -17.329046   -85.936477    -6.882980
-615.633779   -45.550273   -2655.408
 0.75000  -17.329046   -85.936477    -6.882980
-615.633779   -45.726741   -2738.564
 1.00000  -17.329046   -85.936477    -6.882980
-615.633779   -45.963196   -2822.641

 COMB DL-G1-1  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   13.884811    46.752887    2.711804
352.119483    50.627045   452.986271
 0.25000   13.884811    46.759271    2.711804
352.131168    50.274570   460.604243
 0.50000   13.884811    46.765838    2.711804
352.143483    50.192538   469.866122
 0.75000   13.884811    46.772525    2.711804
352.156291    50.980770   480.574265
 1.00000   13.884811    46.779265    2.711804
352.169443    51.946045   492.632834

 COMB DL-G1-1  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -12.510804   -68.503288    -3.192470
-287.670104   -9.585330   -563.760094
 0.25000  -12.510804   -68.498819    -3.192470
-287.656302   -9.297509   -553.597331
 0.50000  -12.510804   -68.494629    -3.192470
-287.643188   -9.341878   -545.309296
 0.75000  -12.510804   -68.490768    -3.192470
-287.630859   -9.710892   -539.092723
 1.00000  -12.510804   -68.487277    -3.192470
-287.619465  -10.207674   -534.835169

 COMB DL-G1-2  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   21.488512   107.359565    2.900955
602.683662   103.117822   842.874472
 0.25000   21.488512   107.365948    2.900955
602.695324   105.712253   864.056865
 0.50000   21.488512   107.372514    2.900955
602.707618   108.623695   888.814997
 0.75000   21.488512   107.379200    2.900955
602.720403   112.637279   916.112202
 1.00000   21.488512   107.385938    2.900955
602.733532   116.848483   945.843754

 COMB DL-G1-2  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -20.381159  -124.663954    -7.773849
-474.887556    -9.738664   -1323.923
 0.25000  -20.381159  -124.659488    -7.773849
-474.873777    -9.229418   -1330.446
 0.50000  -20.381159  -124.655302    -7.773849
-474.860684    -9.168645   -1341.039
 0.75000  -20.381159  -124.651445    -7.773849
-474.848372    -9.248294   -1355.089
 1.00000  -20.381159  -124.647957    -7.773849
-474.836997    -9.434382   -1372.629

 COMB DL-G1-3  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   22.005556   235.913616    3.033331
714.555594    96.854463   1236.252
 0.25000   22.005556   236.097445    3.033331
714.891327    99.043862   1270.869
 0.50000   22.005556   236.286549    3.033331
715.245211   101.627457   1312.806
 0.75000   22.005556   236.479099    3.033331
715.613260   105.320857   1359.695
 1.00000   22.005556   236.673155    3.033331
715.991217   109.275085   1410.706
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1652

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -20.374688   -152.179208    -7.546638
-539.625899   -10.753611   -2539.440
 0.25000  -20.374688   -152.050635    -7.546638
-539.229214   -10.093983   -2637.404
 0.50000  -20.374688   -151.930104    -7.546638
-538.852287    -9.893996   -2744.289
 0.75000  -20.374688   -151.819034    -7.546638
-538.497846    -9.914176   -2858.030
 1.00000  -20.374688   -151.718617    -7.546638
-538.170357   -10.071240   -2976.234

 COMB DL-G1-4  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   24.248642   455.572288    5.171239
737.760739    89.704817   1534.494
 0.25000   24.248642   465.064364    5.171239
752.281461    91.616027   1544.928
 0.50000   24.248642   474.821096    5.171239
767.701473    93.858225   1570.341
 0.75000   24.248642   484.744991    5.171239
783.798060    97.024898   1602.039
 1.00000   24.248642   494.736027    5.171239
800.362922   100.407759   1662.394

 COMB DL-G1-4  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000  -22.042390  -185.561332    -6.850263
-668.621824   -49.057356   -3658.464
 0.25000  -22.042390  -179.417563    -6.850263
-650.916034   -49.851954   -3900.975
 0.50000  -22.042390  -173.650393    -6.850263
-634.037858   -51.054417   -4161.218
 0.75000  -22.042390  -168.351019    -6.850263
-618.173380   -52.458853   -4438.895
 1.00000  -22.042390  -163.574617    -6.850263
-603.513321   -54.014175   -4731.574

 COMB DL-G2-1  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    6.935222    91.056448    0.199237
261.538125    48.921330   475.851722
 0.25000    6.935222    91.120279    0.199237
261.654753    52.074636   493.313395
 0.50000    6.935222    91.185943    0.199237
261.777685    55.261200   513.126276
 0.75000    6.935222    91.252803    0.199237
261.906536    58.480328   534.319997
 1.00000    6.935222    91.320186    0.199237
262.036828    61.700877   556.740858

 COMB DL-G2-1  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -7.162897   -59.936170    -4.597850
-187.285141    -2.241435   -1069.885
 0.25000   -7.162897   -59.891516    -4.597850
-187.147348    -2.307047    -1111.543
 0.50000   -7.162897   -59.849655    -4.597850
-187.016420    -2.385262    -1155.873
 0.75000   -7.162897   -59.811080    -4.597850
-186.893303    -2.480491    -1202.485
 1.00000   -7.162897   -59.776205    -4.597850
-186.779547    -2.576571    -1250.502

 COMB DL-G2-2  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000    9.929768   293.029051    1.626065
439.410513    48.668803   1027.577
 0.25000    9.929768   293.035435    1.626065
439.422192    51.209931   1043.347
 0.50000    9.929768   293.042002    1.626065
439.434502    53.938486   1061.226
 0.75000    9.929768   293.048689    1.626065
439.447304    56.811777   1127.456
 1.00000    9.929768   293.055428    1.626065
439.460451    59.777041   1177.515
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1653

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2  ---------- MIN

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   -9.079673   -103.104404    -4.397110
-305.193697   -19.415448    -2712.393
 0.25000   -9.079673   -103.099935    -4.397110
-305.179901   -19.859923    -2883.726
 0.50000   -9.079673   -103.095746    -4.397110
-305.166792   -20.705234    -3065.925
 0.75000   -9.079673   -103.091886    -4.397110
-305.154468   -21.511765    -3258.068
 1.00000   -9.079673   -103.088396    -4.397110
-305.143079   -22.547543    -3455.045

 COMB DL-G2-3  ---------- MAX

 REL DIST              P              V2              V3
        T              M2              M3
 0.00000   19.096024   304.560889    2.619658
670.871195    90.015127    1288.824
 0.25000   19.096024   304.566634    2.619658
670.881706    93.227951    1311.536
 0.50000   19.096024   304.572544    2.619658
670.892785    96.635551    1355.485
 0.75000   19.096024   304.578563    2.619658
```

```
670.904306   100.835031    1407.902
 1.00000    19.096024   304.584628     2.619658
670.916138   105.296018    1464.413

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -17.768558 -147.921785   -7.161240
-495.301626  -20.848122   -2998.588
 0.25000  -17.768558 -147.917763   -7.161240
-495.289209  -21.417683   -3135.532
 0.50000  -17.768558 -147.913993   -7.161240
-495.277411  -22.267017   -3284.016
 0.75000  -17.768558 -147.910519   -7.161240
-495.266319  -23.141479   -3444.359
 1.00000  -17.768558 -147.907378   -7.161240
-495.256069  -24.039748   -3622.287

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   24.003790   582.750297     5.246951
744.833829   83.583624    1632.761
 0.25000   24.003790   597.569246     5.246951
745.796760   86.306533    1630.398
 0.50000   24.003790   612.787994     5.246951
747.847142   89.179083    1642.085
 0.75000   24.003790   628.252300     5.246951
750.981686   92.737898    1671.310
 1.00000   24.003790   643.793743     5.246951
767.024212   96.516429    1737.326

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -22.185649 -185.971470   -6.980310
-695.962920  -62.884110   -4274.282
 0.25000  -22.185649 -177.508591   -6.980310
-674.635023  -64.258601   -4600.644
 0.50000  -22.185649 -169.551798   -6.980310
-666.147609  -65.972663   -4950.273
 0.75000  -22.185649 -162.242034   -6.980310
-662.285672  -67.760760   -5324.066
 1.00000  -22.185649 -156.801696   -6.980310
-659.488821  -69.619025   -5729.291

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.820852   557.586003     5.056511
405.191172   15.553681   859.793325
 0.25000   13.820852   577.536044     5.056511
405.191172   14.476699   809.316997
 0.50000   13.820852   597.987707     5.056511
405.191172   14.231840   764.289389
 0.75000   13.820852   618.732655     5.056511
405.177900   14.178559   766.110676
 1.00000   13.820852   639.501146     5.056511
404.602645   14.265515   801.206462
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1654

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.891723  -71.184853   -2.251578
-539.518058  -74.968853   -2858.183
 0.25000  -12.891723  -62.464512   -2.251578
-542.591557  -75.926699   -3224.079
 0.50000  -12.891723  -54.274196   -2.251578
-545.664951  -77.131583   -3614.209
 0.75000  -12.891723  -53.258634   -2.251578
-548.725073  -78.573970   -4030.290
 1.00000  -12.891723  -53.179820   -2.251578
-551.223213   -80.156991   -4473.645

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   18.384075   790.755390     7.565562
566.649729   25.429992    1396.144
 0.25000   18.384075   813.513232     7.565562
566.649729   25.042400    1329.629
 0.50000   18.384075   836.853513     7.565562
566.649729   24.921192    1292.059
 0.75000   18.384075   860.525506     7.565562
566.649773   25.017548    1302.773
 1.00000   18.384075   884.288936     7.565562
566.644143   25.236133    1367.572

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -16.380067 -122.048780   -2.637128
-670.585033  -113.466898   -4489.588
 0.25000  -16.380067 -111.417452   -2.637128
-670.925063  -116.199527   -4995.223
 0.50000  -16.380067 -101.435155   -2.637128
-671.265082  -119.255319   -5534.126
 0.75000  -16.380067  -96.405579   -2.637128
-671.605101  -122.586030   -6109.756
 1.00000  -16.380067  -96.151008   -2.637128
-671.939557  -126.039425   -6719.142

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   20.460069   805.289860     6.539953
702.309884   41.387172    1685.466
 0.25000   20.460069   826.112773     6.539953
702.309884   42.315210    1644.982
 0.50000   20.460069   847.467906     6.539953
702.309884   43.569140    1629.572
 0.75000   20.460069   869.128221     6.539953
702.309884   45.111033    1662.238
 1.00000   20.460069   890.873093     6.539953
702.310682   46.847958    1736.054

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -18.577103 -153.741930   -4.566152
-733.809762  -93.204908   -5101.343
 0.25000  -18.577103 -143.935205   -4.566152
-733.750558  -95.911911   -5615.959
 0.50000  -18.577103 -134.727510   -4.566152
-733.691355  -97.357991   -6163.859
 0.75000  -18.577103 -129.672538   -4.566152
-733.632153  -99.870574   -6746.006
 1.00000  -18.577103 -129.415565   -4.566152
-733.573381  -102.508711   -7359.591

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   24.633155   710.523074     5.924548
808.338084   79.051907    1716.499
 0.25000   24.633155   727.880680     5.924548
808.338084   81.661933    1692.354
 0.50000   24.633155   745.681936     5.924548
808.338084   84.576459    1690.086
 0.75000   24.633155   763.737640     5.924548
808.338084   88.054784    1728.577
 1.00000   24.633155   781.863871     5.924548
808.339116   91.907062    1801.953
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1655

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -23.020951 -175.426026   -7.294430
-785.014816  -79.843099   -4789.352
 0.25000  -23.020951 -167.248665   -7.294430
-784.953128  -81.476181   -5214.661
 0.50000  -23.020951 -159.570816   -7.294430
-784.891443  -83.379846   -5673.398
 0.75000  -23.020951 -155.341993   -7.294430
-784.829758  -85.514667   -6156.175
 1.00000  -23.020951 -155.126940   -7.294430
-784.768715  -87.758623   -6666.397

 COMB      DB ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   17.510920   627.906016     7.432232
638.218331   55.133535   841.638424
 0.25000   17.510920   647.806898     7.432232
638.218331   54.700898   817.931519
 0.50000   17.510920   668.112582     7.432232
638.218331   54.695398   840.059266
 0.75000   17.510920   688.688319     7.432232
638.218331   57.466131   862.207635
 1.00000   17.510920   709.043718     7.432232
638.218331   61.141854   864.373363

 COMB      DB ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -17.329046 -113.492840   -7.428838
-615.633779  -65.464341   -2625.582
 0.25000  -17.329046 -104.718655   -7.428838
-615.633779  -65.922800   -2744.366
 0.50000  -17.329046  -97.954748   -7.428838
-615.633779  -66.471838   -2864.201
 0.75000  -17.329046  -92.769384   -7.428838
-615.633779  -67.174319   -2984.114
 1.00000  -17.329046  -91.885087   -7.428838
-615.633779  -67.971055   -3104.456

 COMB      DL ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   24.633155   805.289860     7.565562
808.338084   103.117822    1716.499
 0.25000   24.633155   826.112773     7.565562
808.338084   105.712253    1692.354
 0.50000   24.633155   847.467906     7.565562
808.338084   108.623695    1690.086
 0.75000   24.633155   869.128221     7.565562
808.338084   112.637279    1728.577
 1.00000   24.633155   890.873093     7.565562
808.339116   116.848483    1801.953

 COMB      DL ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -23.020951 -185.971470   -7.773849
-785.014816  -113.466898   -5101.343
 0.25000  -23.020951 -179.417963   -7.773849
-784.953128  -116.199527   -5615.959
 0.50000  -23.020951 -173.650393   -7.773849
-784.891443  -119.255319   -6163.859
 0.75000  -23.020951 -168.351019   -7.773849
-784.829758  -122.586030   -6746.006
 1.00000  -23.020951 -163.574617   -7.773849
-784.768715  -126.039425   -7359.591

 COMB      CAR ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   24.633155   805.289860     7.565562
808.338084   103.117822    1716.499
 0.25000   24.633155   826.112773     7.565562
808.338084   105.712253    1692.354
 0.50000   24.633155   847.467906     7.565562
808.338084   108.623695    1690.086
 0.75000   24.633155   869.128221     7.565562
808.338084   112.637279    1728.577
 1.00000   24.633155   890.873093     7.565562
808.339116   116.848483    1801.953
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1656

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -23.020951 -185.971470   -7.773849
-785.014816  -113.466898   -5101.343
 0.25000  -23.020951 -179.417963   -7.773849
-784.953128  -116.199527   -5615.959
 0.50000  -23.020951 -173.650393   -7.773849
-784.891443  -119.255319   -6163.859
 0.75000  -23.020951 -168.351019   -7.773849
-784.829758  -122.586030   -6746.006
 1.00000  -23.020951 -163.574617   -7.773849
-784.768715  -126.039425   -7359.591

 COMB    DESIGN ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   24.633155   805.289860     7.565562
808.338084   103.117822    1716.499
 0.25000   24.633155   826.112773     7.565562
808.338084   105.712253    1692.354
 0.50000   24.633155   847.467906     7.565562
808.338084   108.623695    1690.086
 0.75000   24.633155   869.128221     7.565562
808.338084   112.637279    1728.577
 1.00000   24.633155   890.873093     7.565562
808.339116   116.848483    1801.953

 COMB    DESIGN ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -23.020951 -185.971470   -7.773849
-785.014816  -113.466898   -5101.343
 0.25000  -23.020951 -179.417963   -7.773849
-784.953128  -116.199527   -5615.959
 0.50000  -23.020951 -173.650393   -7.773849
-784.891443  -119.255319   -6163.859
 0.75000  -23.020951 -168.351019   -7.773849
-784.829758  -122.586030   -6746.006
 1.00000  -23.020951 -163.574617   -7.773849
-784.768715  -126.039425   -7359.591

 ELEM      138 ================== LENGTH
=     3.450023

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   8.145735   43.669841    3.363151
198.681969   27.954473   246.920428
 0.25000   8.145735   43.672348    3.363151
198.704227   28.812793   229.370765
 0.50000   8.145735   43.679161    3.363151
198.730391   29.772668   211.821102
 0.75000   8.145735   43.688299    3.363151
198.757838   30.785269   199.858024
 1.00000   8.145735   43.697840    3.363151
198.786620   31.927992   200.007277

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -8.287672  -33.524730   -2.850521
-253.718986   -7.139949  -234.847359
 0.25000  -8.287672  -33.514933   -2.850521
-253.692487   -6.876264  -242.790383
 0.50000  -8.287672  -33.504985   -2.850521
-253.666002   -6.817356  -271.699772
 0.75000  -8.287672  -33.495093   -2.850521
-253.640086   -7.260310  -301.864921
 1.00000  -8.287672  -33.485307   -2.850521
-253.614642   -7.831249  -332.953911

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.089489   78.379334    7.433530
337.911413   59.115153   472.235303
 0.25000   13.089489   78.381808    7.433530
337.933162   58.929248   438.529401
 0.50000   13.089489   78.388590    7.433530
337.959295   59.069799   404.823498
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1657

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000   13.089489   78.397723    7.433530
337.986684   59.446433   379.224715
 1.00000   13.089489   78.407259    7.433530
338.015433   59.913635   377.211103

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.322180  -82.171668   -3.056418
-444.950192   -4.967848  -606.749294
 0.25000  -13.322180  -82.161874   -3.056418
-444.923764   -5.071641  -614.430188
 0.50000  -13.322180  -82.151929   -3.056418
-444.897310   -5.179976  -659.652093
 0.75000  -13.322180  -82.142040   -3.056418
-444.871426   -5.291309  -706.831062
 1.00000  -13.322180  -82.132258   -3.056418
-444.846015   -6.083440  -755.690950

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.440129   90.198635    7.063499
403.658199   54.419604   691.170210
 0.25000   13.440129   90.200869    7.063499
403.677888   54.106305   641.559279
 0.50000   13.440129   90.206979    7.063499
403.701415   54.094530   591.948348
 0.75000   13.440129   90.216001    7.063499
403.726078   54.329056   549.981692
 1.00000   13.440129   90.223784    7.063499
403.751959   54.718167   542.728147

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.665796 -173.885648   -3.076079
-553.667392   -4.432434   -1262.432
 0.25000  -13.665796 -173.876833   -3.076079
-553.643591   -4.551107   -1247.805
 0.50000  -13.665796 -173.867881   -3.076079
-553.619776   -4.672006   -1282.729
 0.75000  -13.665796 -173.858981   -3.076079
-553.596473   -5.168926   -1319.696
 1.00000  -13.665796 -173.850176   -3.076079
-553.573596   -6.414424   -1358.400

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   15.208555   95.837784    6.578155
466.448545   50.022583   818.881084
 0.25000   15.208555   95.837784    6.578155
466.448545   49.702616   759.854578
 0.50000   15.208555   100.114938   6.578155
480.602733   49.633553   700.828071
 0.75000   15.208555   106.895772   6.578155
498.515808   49.767731   655.801526
 1.00000   15.208555   115.656106   6.578155
515.875681   50.031493   671.523360

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -15.380669 -393.524229   -5.165035
-628.673236   -27.166531   -2023.354
 0.25000  -15.380669 -384.293747   -5.165035
-611.794122   -25.719702   -1957.396
 0.50000  -15.380669 -374.931436   -5.165035
-593.789008   -25.242710   -1944.986
 0.75000  -15.380669 -365.639059   -5.165035
-583.592728   -25.187445   -1934.243
 1.00000  -15.380669 -356.467996   -5.165035
-583.593410   -26.126232   -1925.021

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   4.564017   37.018700    4.026735
146.137766   29.276270   277.828992
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1658

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000   4.564017   37.045998    4.026735
146.378405   28.033964   257.833043
 0.50000   4.564017   37.120685    4.026735
146.665953   27.141791   237.837094
 0.75000   4.564017   37.221168    4.026735
146.967389   26.406810   220.070810
 1.00000   4.564017   37.326076    4.026735
147.283724   25.700629   216.537642

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -4.633821  -74.806205   -0.090288
-208.725570   -1.460825  -560.473955
 0.25000  -4.633821  -74.698461   -0.090288
-208.434669   -1.499295  -552.900510
 0.50000  -4.633821  -74.589058   -0.090288
-208.143594   -1.550597  -564.431412
 0.75000  -4.633821  -74.480270   -0.090288
-207.855778   -1.605379  -576.452606
 1.00000  -4.633821  -74.372657   -0.090288
-207.579172   -1.660092  -589.262656

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   6.409919   57.523669    3.779932
262.180407   28.757284   577.704605
 0.25000   6.409919   57.526151    3.779932
262.202283   27.371023   535.932439
 0.50000   6.409919   57.532940    3.779932
262.228424   26.264816   494.160274
 0.75000   6.409919   57.542075    3.779932
262.255827   25.291193   454.466588
 1.00000   6.409919   57.551612    3.779932
262.284585   24.405759   443.133824

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -6.487038 -224.560044   -1.404170
-381.178161   -12.932134   -1487.972
 0.25000  -6.487038 -224.550249   -1.404170
-381.151715   -12.251918   -1444.749
 0.50000  -6.487038 -224.540303   -1.404170
-381.125254   -11.617712   -1437.294
 0.75000  -6.487038 -224.530414   -1.404170
-381.099362   -11.053163   -1430.484
 1.00000  -6.487038 -224.520631   -1.404170
-381.073943   -11.460683   -1424.426

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.935747   86.411904    6.535959
390.442584   49.571762   723.621836
 0.25000   11.935747   86.414138    6.535959
390.462573   48.962966   671.518221
 0.50000   11.935747   86.420249    6.535959
390.486100   48.611195   619.414607
 0.75000   11.935747   86.428470    6.535959
390.510763   48.419820   573.045238
 1.00000   11.935747   86.437053    6.535959
390.536645   48.355990   562.463569

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.120580 -232.475404   -2.604489
-543.642430   -13.701385   -1563.311
 0.25000  -12.120580 -232.466588   -2.604489
-543.618629   -13.148637   -1529.984
 0.50000  -12.120580 -232.457637   -2.604489
-543.594814   -12.637183   -1545.893
 0.75000  -12.120580 -232.448736   -2.604489
-543.571511   -12.188678   -1583.062
 1.00000  -12.120580 -232.439932   -2.604489
-543.548634   -12.399576   -1581.672
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1659

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   15.614169   93.058034    6.664532
519.571079   45.667597   854.048006
 0.25000   15.614169   93.058034    6.664532
519.571079   45.101502   792.353061
 0.50000   15.614169   93.058034    6.664532
519.571079   44.749111   730.658116
 0.75000   15.614169   100.166020   6.664532
519.571079   44.533652   679.926352
 1.00000   15.614169   110.180528   6.664532
535.232006   44.423955   719.532682

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -15.728254 -515.202277   -5.308053
-593.296932   -35.392857   -2434.582
 0.25000  -15.728254 -500.894133   -5.308053
-592.336239   -33.414538   -2334.987
 0.50000  -15.728254 -486.403199   -5.308053
-592.336239   -32.952295   -2288.368
 0.75000  -15.728254 -472.056602   -5.308053
-592.336239   -33.082795   -2243.022
 1.00000  -15.728254 -457.941166   -5.308053
-592.336239   -34.007156   -2199.035

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   9.833014   32.835946    2.645441
420.891344   6.895147   388.942282
 0.25000   9.833014   32.835946    2.645441
420.891344   6.820955   360.637625
 0.50000   9.833014   32.835946    2.645441
420.891344   6.747741   332.332969
 0.75000   9.833014   32.835946    2.645441
420.891344   6.675634   304.028299
 1.00000   9.833014   32.835946    2.645441
420.891344   6.603577   386.565448

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -9.746487 -510.810303   -5.189623
-302.359051   -41.016992   -1860.592
 0.25000  -9.746487 -492.157963   -5.189623
-302.359051   -38.755854   -1734.288
 0.50000  -9.746487 -473.318629   -5.189623
-302.359051   -38.356828   -1627.023
 0.75000  -9.746487 -454.757728   -5.189623
-302.359051   -38.948730   -1519.758
 1.00000  -9.746487 -436.618291   -5.189623
-302.359051   -39.622741   -1412.497

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.596610   56.390546    3.085568
536.794849   12.430256   665.094606
 0.25000   12.596610   56.390546    3.085568
536.794849   12.236741   616.706345
 0.50000   12.596610   56.390546    3.085568
536.794849   12.052466   568.318410
 0.75000   12.596610   56.390546    3.085568
536.794849   11.871564   519.973935
 1.00000   12.596610   61.713514    3.085568
536.794849   11.692807   607.761157

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.519450 -705.219504   -7.542000
-454.278605   -67.021803   -2817.111
 0.25000  -12.519450 -683.059830   -7.542000
-454.278605   -63.125137   -2646.970
 0.50000  -12.519450 -660.662550   -7.542000
-454.278605   -61.474366   -2510.397
 0.75000  -12.519450 -638.565319   -7.542000
-454.278605   -61.080768   -2373.842
 1.00000  -12.519450 -616.916686   -7.542000
-454.278605   -60.841890   -2237.449
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   1660

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.047123   74.295287    4.507951
589.019000   21.641833   847.591049
 0.25000   14.047123   74.295287    4.507951
589.019000   20.939974   786.071802
 0.50000   14.047123   74.295287    4.507951
589.019000   20.306384   724.552555
 0.75000   14.047123   74.295287    4.507951
```

```
589.019000    19.728605   664.109476
  1.00000    14.047123    79.847904     4.507951
589.019000    19.233479   740.510982

  COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -14.005587 -710.232582   -6.451838
-567.181585   -52.062877   -3105.441
 0.25000   -14.005587 -669.918458   -6.451838
-567.181585   -49.127730   -2940.621
 0.50000   -14.005587 -669.385081   -6.451838
-567.181585   -48.231427   -2822.094
 0.75000   -14.005587 -649.123908   -6.451838
-567.181585   -48.413164   -2703.880
 1.00000   -14.005587 -629.269130   -6.451838
-567.181585   -49.177533   -2586.217

  COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    16.464387   91.237534    6.938618
615.171598    42.246479   884.424677
 0.25000    16.464387   91.237534    6.938618
615.171598    41.383081   820.435757
 0.50000    16.464387   91.237534    6.938618
615.171598    40.741062   756.446836
 0.75000    16.464387   91.237534    6.938618
615.171598    40.223229   696.061800
 1.00000    16.464387   95.889283    6.938618
615.171598    39.786036   758.826818

  COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -16.518863 -622.389164   -5.911368
-638.167341   -44.576804   -2823.044
 0.25000   -16.518863 -605.452766   -5.911368
-638.167341   -42.190264   -2689.033
 0.50000   -16.518863 -588.333524   -5.911368
-638.167341   -41.504188   -2607.581
 0.75000   -16.518863 -571.441130   -5.911368
-638.167341   -41.716351   -2527.041
 1.00000   -16.518863 -554.887397   -5.911368
-638.167341   -42.675608   -2447.416

  COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    12.690490   73.628432    3.376480
293.450030    50.329072   492.512392
 0.25000    12.690490   73.631920    3.376480
293.461423    50.334605   472.045690
 0.50000    12.690490   73.635782    3.376480
293.473733    50.540303   453.399381
 0.75000    12.690490   73.639969    3.376480
293.486858    50.925079   437.752339
 1.00000    12.690490   73.644423    3.376480
293.500666    51.521238   426.754306

  COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -11.420943   -45.249219   -2.814578
-345.401509    -9.310274  -534.748947
 0.25000   -11.420943   -45.242484   -2.814578
-345.388365    -9.062607  -540.565580
 0.50000   -11.420943   -45.235605   -2.814578
-345.375568    -8.996695  -548.860879
 0.75000   -11.420943   -45.229240   -2.814578
-345.363247    -9.294807  -559.223150
 1.00000   -11.420943   -45.222863   -2.814578
-345.351548    -9.994414  -571.582865
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD                >
                                    1661

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    19.524093   133.271894    8.001481
483.526623   114.609602   945.672142
 0.25000    19.524093   133.275378    8.001481
483.537998   111.545276   901.737671
 0.50000    19.524093   133.279237    8.001481
483.550289   108.617783   860.658849
 0.75000    19.524093   133.283420    8.001481
483.563394   106.028138   824.334120
 1.00000    19.524093   133.287871    8.001481
483.577181   103.632032   797.386806

  COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -18.544588 -104.380705   -2.902153
-593.061622    -7.406852  -1372.516
 0.25000   -18.544588 -104.373972   -2.902153
-593.048501    -7.568671  -1358.437
 0.50000   -18.544588 -104.367294   -2.902153
-593.035726    -7.969998  -1348.328
 0.75000   -18.544588 -104.360729   -2.902153
-593.023428    -8.865065  -1341.503
 1.00000   -18.544588 -104.354353   -2.902153
-593.011750   -10.135234  -1338.874

  COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    19.701003   162.404036    7.770400
546.853097   106.817978   1409.748
 0.25000    19.701003   162.504362    7.770400
547.180571   103.886922   1341.069
 0.50000    19.701003   162.615468    7.770400
547.534421   101.158627   1275.918
 0.75000    19.701003   162.735921    7.770400
547.911690    98.774834   1217.843
 1.00000    19.701003   162.864056    7.770400
548.308588    96.672183   1175.443

  COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -18.219760 -231.643195   -2.954157
-707.166643    -8.164128  -2976.131
 0.25000   -18.219760 -231.449274   -2.954157
-706.788917    -8.286963  -2863.369
 0.50000   -18.219760 -231.256952   -2.954157
-706.421167    -8.866231  -2755.258
 0.75000   -18.219760 -231.067906   -2.954157
-706.067124    -9.843502  -2653.647
 1.00000   -18.219760 -230.884288   -2.954157
-705.730979   -11.453853  -2561.157

  COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    22.294583   174.538661    7.126265
609.201508    97.902002   1662.305
 0.25000    22.294583   179.317069    7.126265
623.844549    95.421097   1583.835
 0.50000    22.294583   184.621579    7.126265
639.694417    93.109180   1534.266
 0.75000    22.294583   190.380607    7.126265
656.579450    91.084308   1492.645
 1.00000    22.294583   196.512430    7.126265
674.297913    89.297753   1475.956

  COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -20.266005 -488.585043   -5.132402
-794.269524   -51.952731   -4731.512
 0.25000   -20.266005 -478.594832   -5.132402
-777.717244   -50.454080   -4445.148
 0.50000   -20.266005 -468.681288   -5.132402
-761.627681   -49.481847   -4173.703
 0.75000   -20.266005 -458.928811   -5.132402
-746.203707   -49.067466   -3919.322
 1.00000   -20.266005 -449.446977   -5.132402
-731.679119   -49.194266   -3682.820
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD                >
                                    1662

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.140861   63.553072    4.632752
189.269915   61.427826   556.696404
 0.25000    6.140861   63.587915    4.632752
189.383665   58.151749   527.640468
 0.50000    6.140861   63.626503    4.632752
189.506577   54.970913   499.803879
 0.75000    6.140861   63.668336    4.632752
189.637625   51.949868   473.932969
 1.00000    6.140861   63.712838    4.632752
189.775491   48.953360   453.670051

  COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.390235  -89.411400   -0.074195
-259.843534   -2.197273   -1250.478
 0.25000   -6.390235  -89.344064   -0.074195
-259.712322   -2.228861   -1204.667
 0.50000   -6.390235  -89.277283   -0.074195
-259.584574   -2.264815   -1160.265
 0.75000   -6.390235  -89.211640   -0.074195
-259.461581   -2.302521   -1118.021
 1.00000   -6.390235  -89.147881   -0.074195
-259.344816   -2.340778   -1078.327

  COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.824669  109.788572    4.487486
307.550629   58.966184   1177.488
 0.25000    8.824669  109.792058    4.487486
307.562017   56.002545   1114.813
 0.50000    8.824669  109.795920    4.487486
307.574323   53.118455   1055.798
 0.75000    8.824669  109.800106    4.487486
307.587443   50.379607   1005.685
 1.00000    8.824669  109.804559    4.487486
307.601246   47.781965   987.853625

  COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -8.056999 -288.466650   -1.459570
-437.921148  -22.178744   -3455.033
 0.25000   -8.056999 -288.459916   -1.459570
-437.908009  -21.378280   -3262.725
 0.50000   -8.056999 -288.453237   -1.459570
-437.895217  -20.630236   -3075.028
 0.75000   -8.056999 -288.446672   -1.459570
-437.882902  -20.261259   -2896.868
 1.00000   -8.056999 -288.440296   -1.459570
-437.871209  -20.102134   -2729.689

  COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   17.189521  157.873954   7.354340
501.615975  103.340434   1464.310
 0.25000   17.189521  157.877092   7.354340
501.626224   99.742218   1390.267
 0.50000   17.189521  157.880567   7.354340
501.637299   96.195681   1320.139
 0.75000   17.189521  157.884335   7.354340
501.649107   92.842686   1260.037
 1.00000   17.189521  157.888343   7.354340
501.661530   89.687264   1232.840

  COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.998937  -299.175330  -2.482549
-664.724434  -22.659557   -4527.226
 0.25000  -15.998937  -299.169269  -2.482549
-664.712609  -22.045249   -3450.196
 0.50000  -15.998937  -299.163258  -2.482549
-664.701097  -21.459609   -3288.256
 0.75000  -15.998937  -299.157350  -2.482549
-664.690013  -21.124394   -3149.198
 1.00000  -15.998937  -299.151611  -2.482549
-664.679489  -21.146476   -3014.349
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD                >
                                    1663

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   22.265501  168.240333   7.213970
662.670919   94.192741   1737.298
 0.25000   22.265501  172.630925   7.213970
665.468018   91.228083   1652.366
 0.50000   22.265501  179.916530   7.213970
669.329763   88.331109   1609.048
 0.75000   22.265501  187.858442   7.213970
677.866478   85.577790   1582.039
 1.00000   22.265501  196.315103   7.213970
699.194575   82.977606   1577.847

  COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -20.605034 -637.276035   -5.150747
-763.470231  -67.675881   -5729.268
 0.25000  -20.605034 -621.734268   -5.150747
-747.838528  -65.600345   -5330.734
 0.50000  -20.605034 -606.291669   -5.150747
-744.153200  -64.044252   -4957.266
 0.75000  -20.605034 -591.081349   -5.150747
-742.104240  -63.075023   -4617.084
 1.00000  -20.605034 -576.268374   -5.150747
-741.122636  -62.277618   -4293.878

  COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   13.521487   57.884503   2.331136
547.910870   13.090059   801.304706
 0.25000   13.521487   57.963587   2.331136
545.413007   13.152680   759.663202
 0.50000   13.521487   58.484339   2.331136
542.352783   13.339350   758.125833
 0.75000   13.521487   65.655034   2.331136
539.279129   13.697369   799.919086
 1.00000   13.521487   74.343985   2.331136
536.205372   14.705864   847.193537

  COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.656190 -636.482727   -5.050307
-407.019406   -78.850029   -4473.687
 0.25000  -12.656190 -615.721727   -5.050307
-407.595197   -76.587759   -4032.801
 0.50000  -12.656190 -594.992389   -5.050307
-407.608628   -76.133928   -3619.257
 0.75000  -12.656190 -574.541114   -5.050307
-407.608628   -74.219613   -3231.506
 1.00000  -12.656190 -554.609939   -5.050307
-407.608628   -73.513680   -2867.864

  COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    18.088268  103.899316   2.834276
667.713596   23.690318   1367.701
 0.25000    18.088268  104.155999   2.834276
667.379116   23.618556   1296.157
 0.50000    18.088268  107.486443   2.834276
667.039069   23.631368   1276.365
 0.75000    18.088268  117.456508   2.834276
666.699021   23.826690   1305.797
 1.00000    18.088268  128.052059   2.834276
666.358962   24.270120   1371.567

  COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -16.214484 -878.926044   -7.588465
-570.004173 -124.471066   -6719.203
 0.25000  -16.214484 -855.171214   -7.588465
-570.009765 -120.324006   -6712.721
 0.50000  -16.214484 -831.503792   -7.588465
-570.009765 -117.029982   -5541.656
 0.75000  -16.214484 -808.191788   -7.588465
-570.009765 -114.328958   -5006.983
 1.00000  -16.214484 -785.442557   -7.588465
-570.009765 -111.883665   -4505.486
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD                >
                                    1664

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    19.447067  139.171420   4.717097
731.412551   45.150760   1736.145
 0.25000    19.447067  139.428450   4.717097
731.471329   43.701309   1646.105
 0.50000    19.447067  142.945379   4.717097
731.530537   42.325671   1604.146
 0.75000    19.447067  152.129465   4.717097
731.589744   41.131995   1606.884
 1.00000    19.447067  161.903589   4.717097
731.648954   40.345660   1643.422

  COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -17.698921 -884.092351   -6.419359
-704.264847 -101.170444   -7359.633
 0.25000   -17.698921 -862.355367   -6.419359
-704.264048   -97.946699   -6752.390
 0.50000   -17.698921 -840.699543   -6.419359
-704.264048   -95.494261   -6176.272
 0.75000   -17.698921 -819.370220   -6.419359
-704.264048   -93.586020   -5633.902
 1.00000   -17.698921 -798.555225   -6.419359
-704.264048   -92.234227   -5124.763

  COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    23.070592  166.365040   7.495991
785.995475   89.659353   1801.973
 0.25000    23.070592  166.580141   7.495991
786.056525   86.535747   1710.092
 0.50000    23.070592  169.526951   7.495991
786.118215   83.493804   1658.814
 0.75000    23.070592  177.185123   7.495991
786.179906   80.648750   1646.203
 1.00000    23.070592  185.335313   7.495991
786.241598   78.167569   1664.902

  COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -21.606619 -775.078920   -5.790190
-806.632085  -83.216354   -4527.397
 0.25000   -21.606619 -756.959266   -5.790190
-806.632085  -83.216354   -6158.217
 0.50000   -21.606619 -738.907314   -5.790190
-806.632085  -81.263827   -5682.201
 0.75000   -21.606619 -721.127573   -5.790190
-806.632085  -79.779334   -5229.713
 1.00000   -21.606619 -703.776568   -5.790190
-806.632085  -78.838692   -4810.974

  COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    16.464387   95.837784   7.433530
615.171598   59.151653   884.424677
 0.25000    16.464387   95.837784   7.433530
615.171598   58.929248   820.435757
 0.50000    16.464387  100.114938   7.433530
615.171598   59.069799   756.446836
 0.75000    16.464387  106.895772   7.433530
615.171598   59.146433   696.061800
 1.00000    16.464387  115.656106   7.433530
615.171598   59.913635   758.826818

  COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -16.518863 -710.232582   -7.542000
-638.167341   -67.021803   -3105.441
 0.25000   -16.518863 -689.918458   -7.542000
-638.167341   -63.125137   -2940.621
 0.50000   -16.518863 -669.385081   -7.542000
-638.167341   -61.474366   -2822.094
 0.75000   -16.518863 -649.123908   -7.542000
-638.167341   -61.080768   -2703.880
 1.00000   -16.518863 -629.269130   -7.542000
-638.167341   -60.841890   -2586.217
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD                >
                                    1665

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    23.070592  174.538661   8.001481
785.995475  114.609602   1801.973
 0.25000    23.070592  179.317069   8.001481
786.056525  111.545276   1710.092
 0.50000    23.070592  184.621579   8.001481
786.118215  108.617783   1658.814
 0.75000    23.070592  190.380607   8.001481
786.179906  106.023138   1646.203
 1.00000    23.070592  196.512430   8.001481
786.241598  103.632032   1664.902

  COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -21.606619 -884.092351   -7.588465
-806.633118 -124.471066   -7359.633
 0.25000   -21.606619 -862.355367   -7.588465
-806.632085 -120.324006   -6752.390
 0.50000   -21.606619 -840.699543   -7.588465
-806.632085 -117.029982   -6176.272
 0.75000   -21.606619 -819.370220   -7.588465
-806.632085 -114.328958   -5633.902
 1.00000   -21.606619 -798.555225   -7.588465
-806.632085 -111.883665   -5124.763

  COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    23.070592  174.538661   8.001481
785.995475  114.609602   1801.973
 0.25000    23.070592  179.317069   8.001481
786.056525  111.545276   1710.092
 0.50000    23.070592  184.621579   8.001481
786.118215  108.617783   1658.814
 0.75000    23.070592  190.380607   8.001481
786.179906  106.023138   1646.203
 1.00000    23.070592  196.512430   8.001481
786.241598  103.632032   1664.902

  COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -21.606619 -884.092351   -7.588465
-806.633118 -124.471066   -7359.633
 0.25000   -21.606619 -862.355367   -7.588465
-806.632085 -120.324006   -6752.390
 0.50000   -21.606619 -840.699543   -7.588465
-806.632085 -117.029982   -6176.272
 0.75000   -21.606619 -819.370220   -7.588465
-806.632085 -114.328958   -5633.902
 1.00000   -21.606619 -798.555225   -7.588465
-806.632085 -111.883665   -5124.763

  COMB      DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    23.070592  174.538661   8.001481
785.995475  114.609602   1801.973
 0.25000    23.070592  179.317069   8.001481
786.056525  111.545276   1710.092
 0.50000    23.070592  184.621579   8.001481
786.118215  108.617783   1658.814
 0.75000    23.070592  190.380607   8.001481
786.179906  106.023138   1646.203
 1.00000    23.070592  196.512430   8.001481
786.241598  103.632032   1664.902

  COMB      DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -21.606619 -884.092351   -7.588465
-806.633118 -124.471066   -7359.633
 0.25000   -21.606619 -862.355367   -7.588465
-806.632085 -120.324006   -6752.390
 0.50000   -21.606619 -840.699543   -7.588465
-806.632085 -117.029982   -6176.272
 0.75000   -21.606619 -819.370220   -7.588465
-806.632085 -114.328958   -5633.902
 1.00000   -21.606619 -798.555225   -7.588465
-806.632085 -111.883665   -5124.763
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD                >
                                    1666

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  ELEM      139 ================== LENGTH
=     4.927989

  COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.546501   24.565914   4.545166
130.865214   30.614377   200.013297
 0.25000    7.546501   24.576814   4.545166
130.896733   30.844124   197.038534
 0.50000    7.546501   24.588784   4.545166
130.931876   31.182753   194.100218
 0.75000    7.546501   24.601549   4.545166
130.968701   31.635066   191.170343
 1.00000    7.546501   24.616503   4.545166
131.010847   32.203229   189.255461

  COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -7.788898  -42.536750   -1.943769
-275.196816   -7.592070  -333.431761
 0.25000   -7.788898  -42.521441   -1.943769
-275.156773   -8.285127  -355.620010
 0.50000   -7.788898  -42.507695   -1.943769
-275.121857  -10.180044  -379.615719
 0.75000   -7.788898  -42.494282   -1.943769
-275.088129  -13.214402  -402.172819
 1.00000   -7.788898  -42.481416   -1.943769
-275.067652  -17.065887  -426.413053

  COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.128203   43.471967   10.066504
207.350173   58.188724   377.213105
 0.25000   12.128203   43.482863   10.066504
207.381505   54.698330   370.521998
 0.50000   12.128203   43.494528   10.066504
207.416604   52.071208   364.558383
 0.75000   12.128203   43.507588   10.066504
207.453385   49.688649   359.363737
 1.00000   12.128203   43.522533   10.066504
207.495475   47.507437   371.081603

  COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.507496 -100.816291   -1.442835
-492.407331   -5.496069  -756.459679
 0.25000  -12.507496 -100.809396   -1.442835
-492.367343   -7.971423  -784.262694
 0.50000  -12.507496 -100.787248   -1.442835
-492.332472  -11.645461  -813.292686
 0.75000  -12.507496 -100.773839   -1.442835
-492.298789  -20.694541  -843.217910
 1.00000  -12.507496 -100.760976   -1.442835
-492.278856  -31.322981  -874.430957

  COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.420213   61.057267   9.667760
225.568791   52.546594   542.719630
 0.25000   12.420213   61.067075   9.667760
225.597095   49.220793   528.649731
 0.50000   12.420213   61.077845   9.667760
225.628694   46.463124   514.605072
 0.75000   12.420213   61.089330   9.667760
225.661807   43.977623   562.406159
 1.00000   12.420213   61.102782   9.667760
225.699700   42.086944   681.749287

  COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.798717 -195.634078   -1.207504
-616.039067   -5.681943   -1359.208
 0.25000  -12.798717 -195.620305   -1.207504
-616.003065   -8.993154   -1365.341
 0.50000  -12.798717 -195.607936   -1.207504
-615.971671  -14.101060   -1372.546
 Program    SAP2000    Nonlinear    Version    7.42
```

File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1667

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-12.798717	-195.595867	-1.207504
-615.941346	-22.782252	-1380.492	
1.00000	-12.798717	-195.584290	-1.207504
-615.923284	-32.707497	-1389.909	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.208264	71.111976	8.251380
320.818050	48.052136	671.506611	
0.25000	14.208264	80.968092	8.251380
325.979737	45.066557	763.375995	
0.50000	14.208264	92.125672	8.251380
349.909659	42.548885	867.360398	
0.75000	14.208264	104.048043	8.251380
372.679442	42.057185	1018.057	
1.00000	14.208264	117.647455	8.251380
402.326123	43.329962	1220.030	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.572873	-393.586175	-4.693198
-656.413018	-25.704024	-1925.441	
0.25000	-14.572873	-379.439200	-4.693198
-627.116493	-26.822012	-1883.980	
0.50000	-14.572873	-366.447195	-4.693198
-604.500273	-29.748187	-1843.493	
0.75000	-14.572873	-353.782288	-4.693198
-599.975967	-36.080916	-1803.688	
1.00000	-14.572873	-341.656914	-4.693198
-599.975967	-43.476052	-1765.117	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.220048	23.650818	5.477416
72.318846	25.251090	216.530328	
0.25000	4.220048	23.770688	5.477416
72.664783	21.311915	211.293216	
0.50000	4.220048	23.902318	5.477416
73.050993	17.972476	206.030233	
0.75000	4.220048	24.042694	5.477416
73.455709	14.707040	206.525074	
1.00000	4.220048	24.207107	5.477416
73.918847	11.541750	261.522744	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.329306	-85.363413	-0.105311
-239.457222	-1.372171	-589.539569	
0.25000	-4.329306	-85.195078	-0.105311
-239.017205	-1.395550	-587.065276	
0.50000	-4.329306	-85.043902	-0.105311
-238.633499	-1.809896	-584.915971	
0.75000	-4.329306	-84.896394	-0.105311
-238.262858	-4.777537	-583.137178	
1.00000	-4.329306	-84.754896	-0.105311
-238.042097	-14.397700	-581.860283	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.953500	48.053821	5.157291
137.087655	23.459773	443.114207	
0.25000	5.953500	48.064718	5.157291
137.119104	19.622741	448.168861	
0.50000	5.953500	48.076685	5.157291
137.154214	16.372835	472.004412	
0.75000	5.953500	48.089443	5.157291
137.191006	13.317335	581.758245	
1.00000	5.953500	48.104393	5.157291
137.233109	10.940686	783.443988	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.129951	-231.092477	-1.603272
-413.436802	-11.093885	-1424.720	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1668

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-6.129951	-231.077174	-1.603272
-413.396800	-10.770073	-1389.896	
0.50000	-6.129951	-231.063431	-1.603272
-413.361918	-11.644475	-1355.216	
0.75000	-6.129951	-231.050021	-1.603272
-413.328223	-16.267366	-1320.678	
1.00000	-6.129951	-231.037158	-1.603272
-413.308154	-21.605000	-1286.859	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.071331	61.477172	8.903087
220.881937	46.539926	562.448269	
0.25000	11.071331	61.486979	8.903087
220.910241	42.613475	564.150341	
0.50000	11.071331	61.497749	8.903087
220.941840	39.107505	582.825086	
0.75000	11.071331	61.509234	8.903087
220.974953	35.783189	678.473390	
1.00000	11.071331	61.522686	8.903087
221.012846	33.064266	857.557566	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.417229	-246.439307	-1.476769
-592.662887	-11.178021	-1582.300	
0.25000	-11.417229	-246.425534	-1.476769
-592.626886	-14.115197	-1566.285	
0.50000	-11.417229	-246.413166	-1.476769
-592.595492	-14.963407	-1551.091	
0.75000	-11.417229	-246.401097	-1.476769
-592.565166	-23.610278	-1536.523	
1.00000	-11.417229	-246.389520	-1.476769
-592.547104	-33.089437	-1523.184	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.652328	71.202324	7.551189
405.064865	42.725540	719.441139	
0.25000	14.652328	84.997605	7.551189
405.064865	39.277369	867.313411	
0.50000	14.652328	102.046600	7.551189
405.064865	36.905429	1029.720	
0.75000	14.652328	120.310872	7.551189
430.124872	38.548256	1227.778	
1.00000	14.652328	140.377072	7.551189
455.554117	40.955396	1467.460	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.949874	-496.286622	-5.445833
-574.581244	-33.134081	-2199.114	
0.25000	-14.949874	-474.930213	-5.445833
-571.879448	-32.284478	-2126.270	
0.50000	-14.949874	-454.706384	-5.445833
-571.879448	-34.600241	-2054.096	
0.75000	-14.949874	-435.016583	-5.445833
-571.879448	-40.865275	-1982.650	
1.00000	-14.949874	-416.214513	-5.445833
-571.879448	-47.822995	-1912.347	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.408267	30.522862	0.628163
480.893510	6.330019	386.294520	
0.25000	9.408267	41.983195	0.628163
480.893510	8.496226	599.655220	
0.50000	9.408267	63.583032	0.628163
480.893510	13.049400	832.633239	
0.75000	9.408267	86.850185	0.628163
480.893510	18.765201	1035.841	
1.00000	9.408267	110.678276	0.628163
480.893510	25.469962	1208.461	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1669

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.399532	-442.436796	-7.117537
-168.853341	-39.706507	-1411.639	
0.25000	-9.399532	-416.027013	-7.117537
-168.853341	-38.265719	-1309.973	
0.50000	-9.399532	-389.447344	-7.117537
-168.853341	-36.856352	-1208.790	
0.75000	-9.399532	-363.629801	-7.117537
-168.853341	-35.463355	-1107.612	
1.00000	-9.399532	-339.111829	-7.117537
-168.853341	-34.184425	-1007.046	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.092401	52.779187	0.627151
568.832039	11.209081	607.482731	
0.25000	12.092401	68.724002	0.627151
568.832039	11.235334	872.546549	
0.50000	12.092401	94.593672	0.627151
568.832039	16.411760	1178.981	
0.75000	12.092401	122.429499	0.627151
568.832039	22.998673	1500.562	
1.00000	12.092401	151.370898	0.627151
568.832039	30.960695	1807.072	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.195933	-626.162294	-10.754724
-305.524853	-61.099970	-2236.491	
0.25000	-12.195933	-594.302541	-10.754724
-305.524853	-56.606719	-2095.550	
0.50000	-12.195933	-562.809493	-10.754724
-305.524853	-52.686289	-1954.817	
0.75000	-12.195933	-532.182959	-10.754724
-305.524853	-49.692129	-1814.178	
1.00000	-12.195933	-503.048386	-10.754724
-305.524853	-47.572869	-1674.260	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.328226	68.413074	3.022814
553.752641	18.186389	740.252747	
0.25000	13.328226	83.249660	3.022814
553.752641	16.341940	971.048743	
0.50000	13.328226	106.980814	3.022814
553.752641	19.481277	1233.337	
0.75000	13.328226	132.507708	3.022814
553.752641	24.035044	1535.160	
1.00000	13.328226	159.106155	3.022814
553.752641	29.957713	1883.604	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.437669	-648.231502	-8.546377
-460.936687	-51.963330	-2365.551	
0.25000	-13.437669	-618.980206	-8.546377
-460.936687	-47.676561	-2450.446	
0.50000	-13.437669	-590.108801	-8.546377
-460.936687	-47.273911	-2315.580	
0.75000	-13.437669	-562.046300	-8.546377
-460.936687	-48.066450	-2180.797	
1.00000	-13.437669	-535.337588	-8.546377
-460.936687	-49.234912	-2046.986	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.513403	72.716057	6.863499
535.054114	38.318916	758.611112	
0.25000	15.513403	85.093177	6.863499
535.054114	34.819079	947.919671	
0.50000	15.513403	104.878798	6.863499
535.054114	35.836226	1163.365	
0.75000	15.513403	126.161786	6.863499
535.054114	38.075788	1412.149	
1.00000	15.513403	148.339565	6.863499
535.054114	41.517856	1700.227	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1670

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.745730	-578.561275	-7.139696
-569.484858	-42.002681	-2447.143	
0.25000	-15.745730	-554.172236	-7.139696
-569.484858	-40.789054	-2344.503	
0.50000	-15.745730	-530.101650	-7.139696
-569.484858	-41.249043	-2242.333	
0.75000	-15.745730	-506.705404	-7.139696
-569.484858	-46.697109	-2140.722	
1.00000	-15.745730	-484.437658	-7.139696
-569.484858	-52.809748	-2040.406	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.619967	53.210090	4.870825
215.276093	50.251197	426.840901	
0.25000	11.619967	53.215130	4.870825
215.291534	48.423757	408.910449	
0.50000	11.619967	53.220796	4.870825
215.308599	47.133831	397.860991	
0.75000	11.619967	53.226985	4.870825
215.326987	46.443075	394.753480	
1.00000	11.619967	53.233554	4.870825
215.346314	46.289462	400.009232	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.394013	-55.041175	-1.730506
-361.687586	-9.149302	-571.305925	
0.25000	-10.394013	-55.032006	-1.730506
-361.669923	-10.149968	-555.349274	
0.50000	-10.394013	-55.023036	-1.730506
-361.653042	-12.151698	-547.518515	
0.75000	-10.394013	-55.014414	-1.730506
-361.637291	-15.157046	-555.801983	
1.00000	-10.394013	-55.006270	-1.730506
-361.623000	-18.940057	-572.715215	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.791066	90.927162	12.923032
330.892453	102.136557	797.491691	
0.25000	17.791066	90.932200	12.923032
330.907872	91.554909	760.118119	
0.50000	17.791066	90.937863	12.923032
330.924912	82.258062	737.556065	
0.75000	17.791066	90.944047	12.923032
330.943273	75.143221	732.884153	
1.00000	17.791066	90.950613	12.923032
330.962572	69.525566	752.792223	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.793894	-128.019868	-1.323283
-640.401888	-8.867762	-1338.218	
0.25000	-16.793894	-128.010701	-1.323283
-640.384260	-10.893742	-1295.697	
0.50000	-16.793894	-128.001733	-1.323283
-640.367414	-14.260036	-1210.531	
0.75000	-16.793894	-127.993113	-1.323283
-640.351701	-22.099141	-1182.542	
1.00000	-16.793894	-127.984970	-1.323283
-640.337435	-31.667928	-1177.176	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.885826	118.985357	12.346265
344.015780	95.126774	1175.600	
0.25000	17.885826	119.130410	12.346265
344.459678	85.298204	1121.360	
0.50000	17.885826	119.293483	12.346265
344.950257	76.701781	1093.375	
0.75000	17.885826	119.471576	12.346265
345.478857	69.909817	1121.668	
1.00000	17.885826	119.660622	12.346265
346.034453	64.930033	1191.479	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1671

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.355262	-261.144269	-1.306152
-770.556064	-10.219485	-2560.282	
0.25000	-16.355262	-260.880276	-1.306152
-770.048644	-12.622268	-2352.487	
0.50000	-16.355262	-260.622005	-1.306152
-769.563716	-16.628387	-2276.105	
0.75000	-16.355262	-260.373766	-1.306152
-769.111413	-23.966887	-2041.975	
1.00000	-16.355262	-260.139260	-1.306152
-768.700787	-33.165265	-1946.201	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.756823	140.074939	10.568622
439.793440	87.492492	1476.148	
0.25000	20.756823	147.230185	10.568622
459.839611	79.056916	1461.245	
0.50000	20.756823	155.283744	10.568622
482.039891	72.007985	1474.103	
0.75000	20.756823	164.079582	10.568622
505.931097	67.992887	1539.291	
1.00000	20.756823	173.390508	10.568622
530.955686	66.532807	1640.329	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.681449	-474.035301	-5.712125
-815.751394	-47.514890	-3682.292	
0.25000	-18.681449	-460.543671	-5.712125
-793.684343	-45.069662	-3312.508	
0.50000	-18.681449	-447.320013	-5.712125
-773.077429	-44.251837	-2991.064	
0.75000	-18.681449	-434.586305	-5.712125
-753.964235	-47.171426	-2723.036	
1.00000	-18.681449	-422.542810	-5.712125
-744.686772	-52.299151	-2505.185	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.464877	42.243000	8.171064
104.426139	48.860665	453.711714	
0.25000	5.464877	42.293373	8.171064
104.580326	39.913829	430.607165	
0.50000	5.464877	42.350005	8.171064
104.750728	31.646089	417.784600	
0.75000	5.464877	42.411852	8.171064
104.934337	24.993931	421.167227	
1.00000	5.464877	42.477503	8.171064
105.127325	19.250735	451.464707	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.643469	-105.919743	-0.106436
-296.153422	-2.172024	-1077.901	
0.25000	-5.643469	-105.828073	-0.106436
-295.977146	-2.131657	-985.000095	
0.50000	-5.643469	-105.738390	-0.106436
-295.808683	-2.259914	-904.407633	
0.75000	-5.643469	-105.652192	-0.106436
-295.651552	-7.360180	-838.736713	
1.00000	-5.643469	-105.570762	-0.106436
-295.508895	-12.751218	-788.855889	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.086792	83.921709	7.541935
167.493123	47.379102	987.963786	
0.25000	8.086792	83.926748	7.541935
167.508559	39.508472	941.630464	
0.50000	8.086792	83.932414	7.541935
167.525617	32.344141	929.267045	
0.75000	8.086792	83.938601	7.541935
167.543999	26.382292	984.977179	
1.00000	8.086792	83.945170	7.541935
167.563319	21.980219	1090.076	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1672

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.241561	-298.070766	-2.122161
-476.514208	-19.645400	-2729.071	
0.25000	-7.241561	-298.061597	-2.122161
-476.496554	-17.945416	-2449.982	
0.50000	-7.241561	-298.052628	-2.122161
-476.479682	-17.198992	-2204.045	
0.75000	-7.241561	-298.044007	-2.122161
-476.463938	-19.301949	-1993.454	
1.00000	-7.241561	-298.035862	-2.122161
-476.449655	-22.769116	-1819.766	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.711946	116.143170	12.160314
308.674574	88.506177	1232.973	
0.25000	15.711946	116.147706	12.160314
308.688466	76.964495	1175.244	
0.50000	15.711946	116.152805	12.160314
308.703819	67.209652	1154.329	
0.75000	15.711946	116.158374	12.160314
308.720362	59.287352	1201.878	
1.00000	15.711946	116.164285	12.160314
308.737751	53.291658	1301.396	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.452314	-317.985537	-1.959160
-717.921009	-19.918640	-3013.790	
0.25000	-14.452314	-317.977285	-1.959160
-717.905120	-18.774501	-2756.015	
0.50000	-14.452314	-317.969212	-1.959160
-717.889936	-21.142068	-2534.393	
0.75000	-14.452314	-317.961453	-1.959160
-717.875767	-26.942625	-2340.486	
1.00000	-14.452314	-317.954123	-1.959160
-717.862912	-34.583075	-2194.998	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.907777	142.206324	10.319760
524.681462	81.277849	1577.862	
0.25000	20.907777	152.628020	10.319760
530.469373	71.807068	1589.844	
0.50000	20.907777	164.374465	10.319760
540.705485	65.391938	1627.710	
0.75000	20.907777	177.191428	10.319760
570.144822	62.091436	1713.377	
1.00000	20.907777	190.737662	10.319760
599.163526	61.056296	1831.452	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.164013	-587.987139	-6.578997
-742.354323	-60.546673	-4293.888	
0.25000	-19.164013	-567.229218	-6.578997
-719.189977	-55.577952	-3841.345	
0.50000	-19.164013	-546.828264	-6.578997
-716.454887	-54.370350	-3445.175	
0.75000	-19.164013	-527.139881	-6.578997
-716.028345	-56.581827	-3094.022	
1.00000	-19.164013	-508.472650	-6.578997
-716.018508	-60.746033	-2803.871	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.269764	65.897870	0.712300
603.505889	13.799385	847.052915	
0.25000	13.269764	78.087573	0.712300
599.115588	15.725747	930.850416	
0.50000	13.269764	91.906340	0.712300
594.725202	19.130222	1019.294	
0.75000	13.269764	106.958052	0.712300
590.334815	23.921347	1106.415	
1.00000	13.269764	122.802407	0.712300
585.944428	29.567349	1188.298	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1673

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.349180	-503.809390	-7.960781
-245.463817	-72.306921	-2868.862	
0.25000	-12.349180	-476.610206	-7.960781
-245.463817	-66.793781	-2476.805	
0.50000	-12.349180	-449.737491	-7.960781
-245.463817	-62.034690	-2127.501	
0.75000	-12.349180	-423.670016	-7.960781
-245.463817	-58.040392	-1814.565	
1.00000	-12.349180	-398.889839	-7.960781
-245.463817	-54.708239	-1536.102	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.902061	107.593607	0.999157
694.077125	22.734666	1371.496	
0.25000	17.902061	121.967251	0.999157
693.591412	24.465221	1449.008	
0.50000	17.902061	138.237372	0.999157
693.105691	27.992277	1554.726	
0.75000	17.902061	155.958221	0.999157
692.619969	33.043635	1692.521	
1.00000	17.902061	174.647933	0.999157
692.134247	40.159961	1844.213	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.973643	-723.021162	-12.585594
-393.032631	-110.318532	-4506.468	
0.25000	-15.973643	-691.805380	-12.585594
-393.032631	-99.539648	-3925.526	
0.50000	-15.973643	-661.006812	-12.585594
-393.032631	-89.839997	-3385.999	
0.75000	-15.973643	-631.179768	-12.585594
-393.032631	-81.747895	-2943.592	
1.00000	-15.973643	-602.818357	-12.585594
-393.032631	-75.378998	-2536.176	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.738149	132.084550	4.609330
682.985620	38.940165	1643.405	
0.25000	18.738149	145.288859	4.609330
683.070189	36.823527	1694.220	
0.50000	18.738149	160.233855	4.609330
683.154761	36.853424	1776.678	
0.75000	18.738149	176.512109	4.609330
683.239332	38.618574	1912.471	
1.00000	18.738149	193.683475	4.609330
683.323904	42.325334	2083.142	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.887578	-759.771259	-10.121537
-576.164059	-90.768152	-5125.284	
0.25000	-16.887578	-731.190644	-10.121537
-576.164059	-83.501507	-4495.455	
0.50000	-16.887578	-702.995084	-10.121537
-576.164059	-77.885727	-3936.343	
0.75000	-16.887578	-675.697898	-10.121537
-576.164059	-74.167614	-3442.286	
1.00000	-16.887578	-649.733249	-10.121537
-576.164059	-71.909917	-3011.423	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.857022	142.995831	10.089743
685.636616	76.515098	1664.903	
0.25000	21.857022	154.004519	10.089743
685.724733	68.450170	1692.287	
0.50000	21.857022	166.464994	10.089743
685.812851	62.814387	1751.756	
0.75000	21.857022	180.036319	10.089743
685.900969	60.011998	1862.737	
1.00000	21.857022	194.351996	10.089743
685.989087	59.663128	2010.688	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1674

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.277186	-681.882104	-8.455949
-721.330033	-77.039056	-4811.280	
0.25000	-20.277186	-658.057114	-8.455949
-721.330033	-71.103939	-4265.713	
0.50000	-20.277186	-634.552758	-8.455949
-721.330033	-67.581762	-3785.030	
0.75000	-20.277186	-611.797902	-8.455949
-721.330033	-68.317599	-3366.094	
1.00000	-20.277186	-590.153903	-8.455949
-721.330033	-71.143923	-3007.621	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.513403	72.716057	10.066504
568.832039	58.188724	758.611112	
0.25000	15.513403	85.093177	10.066504
568.832039	54.698330	971.048743	
0.50000	15.513403	106.980814	10.066504
568.832039	52.071208	1233.337	
0.75000	15.513403	132.507708	10.066504
568.832039	49.668649	1535.160	
1.00000	15.513403	159.106155	10.066504
568.832039	47.507437	1883.604	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.745730	-648.231502	-10.754724
-656.413018	-61.099970	-2585.551	
0.25000	-15.745730	-618.980206	-10.754724
-627.116493	-56.606719	-2450.446	
0.50000	-15.745730	-590.106801	-10.754724
-615.971671	-52.686289	-2315.580	
0.75000	-15.745730	-562.008456	-10.754724
-615.941346	-49.692129	-2180.797	
1.00000	-15.745730	-535.337588	-10.754724
-615.923284	-52.809748	-2046.986	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.857022	142.995831	12.923032
694.077125	102.136557	1664.903	
0.25000	21.857022	154.004519	12.923032
693.591412	91.554909	1694.220	
0.50000	21.857022	166.464994	12.923032
693.105691	82.258062	1776.678	
0.75000	21.857022	180.036319	12.923032
692.619969	75.143221	1912.471	
1.00000	21.857022	194.351996	12.923032
692.134247	69.525566	2083.142	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.277186	-759.771259	-12.585594
-815.251394	-110.318532	-5125.284	
0.25000	-20.277186	-731.190644	-12.585594
-793.684343	-99.539648	-4495.455	
0.50000	-20.277186	-702.995084	-12.585594
-773.077429	-89.839997	-3936.343	
0.75000	-20.277186	-675.697898	-12.585594
-769.111413	-81.747895	-3442.286	
1.00000	-20.277186	-649.733249	-12.585594
-768.700787	-75.378998	-3011.423	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.857022	142.995831	12.923032
694.077125	102.136557	1664.903	
0.25000	21.857022	154.004519	12.923032
693.591412	91.554909	1694.220	
0.50000	21.857022	166.464994	12.923032
693.105691	82.258062	1776.678	
0.75000	21.857022	180.036319	12.923032
692.619969	75.143221	1912.471	
1.00000	21.857022	194.351996	12.923032
692.134247	69.525566	2083.142	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1675

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.277186	-759.771259	-12.585594
-815.251394	-110.318532	-5125.284	
0.25000	-20.277186	-731.190644	-12.585594
-793.684343	-99.539648	-4495.455	
0.50000	-20.277186	-702.995084	-12.585594
-773.077429	-89.839997	-3936.343	
0.75000	-20.277186	-675.697898	-12.585594
-769.111413	-81.747895	-3442.286	
1.00000	-20.277186	-649.733249	-12.585594
-768.700787	-75.378998	-3011.423	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.857022	142.995831	12.923032
694.077125	102.136557	1664.903	
0.25000	21.857022	154.004519	12.923032
693.591412	91.554909	1694.220	
0.50000	21.857022	166.464994	12.923032
693.105691	82.258062	1776.678	
0.75000	21.857022	180.036319	12.923032
692.619969	75.143221	1912.471	
1.00000	21.857022	194.351996	12.923032
692.134247	69.525566	2083.142	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.277186	-759.771259	-12.585594
-815.251394	-110.318532	-5125.284	
0.25000	-20.277186	-731.190644	-12.585594
-793.684343	-99.539648	-4495.455	
0.50000	-20.277186	-702.995084	-12.585594
-773.077429	-89.839997	-3936.343	
0.75000	-20.277186	-675.697898	-12.585594
-769.111413	-81.747895	-3442.286	
1.00000	-20.277186	-649.733249	-12.585594
-768.700787	-75.378998	-3011.423	

ELEM 140 ========== LENGTH = 4.928729

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.048929	23.778353	5.420792
68.484177	31.254377	189.265750	
0.25000	7.048929	23.790090	5.420792
68.515554	29.843613	207.244203	
0.50000	7.048929	23.802846	5.420792
68.548946	28.449432	251.377096	
0.75000	7.048929	23.816353	5.420792
68.584004	27.104074	298.167421	
1.00000	7.048929	23.831747	5.420792
68.625087	25.865570	346.778542	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.349609	-44.565508	-0.556791
-261.930386	-16.484355	-426.798325	
0.25000	-7.349609	-44.549925	-0.556791
-261.891393	-19.725986	-431.295334	
0.50000	-7.349609	-44.535949	-0.556791
-261.857477	-23.678103	-436.008838	
0.75000	-7.349609	-44.522419	-0.556791
-261.827449	-28.295885	-440.852202	
1.00000	-7.349609	-44.509562	-0.556791
-261.806046	-33.488250	-446.176524	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.324052	43.896416	9.590801
100.748220	46.067317	371.657368	
0.25000	11.324052	43.908149	9.590801
100.779550	42.397633	433.136652	
0.50000	11.324052	43.920901	9.590801
100.812896	38.790640	529.791896	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1676

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	11.324052	43.934403	9.590801
100.847907	35.465856	633.723246	
1.00000	11.324052	43.949789	9.590801
100.888930	32.495390	744.065416	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.792202	-102.105071	-0.209687
-470.082831	-30.226454	-875.017796	
0.25000	-11.792202	-102.089496	-0.209687
-470.043896	-36.546578	-872.145062	
0.50000	-11.792202	-102.075524	-0.209687
-470.010025	-43.922292	-869.677421	
0.75000	-11.792202	-102.061999	-0.209687
-469.980237	-52.350361	-867.405648	
1.00000	-11.792202	-102.049146	-0.209687
-469.958868	-61.607738	-865.723429	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.570436	61.217684	9.112044
96.433047	41.247131	682.699546	
0.25000	11.570436	61.228245	9.112044
96.461255	38.194866	798.488931	
0.50000	11.570436	61.239722	9.112044
96.491276	35.425747	960.446344	
0.75000	11.570436	61.251875	9.112044
96.522797	32.845052	1141.376	
1.00000	11.570436	61.265724	9.112044
96.559731	30.437055	1336.906	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.043209	-187.031335	-0.382061
-583.452991	-31.275466	-1390.492	
0.25000	-12.043209	-187.017316	-0.382061
-583.417936	-36.703705	-1363.626	
0.50000	-12.043209	-187.004740	-0.382061
-583.387442	-43.264784	-1337.102	
0.75000	-12.043209	-186.992566	-0.382061
-583.360579	-50.950222	-1310.770	
1.00000	-12.043209	-186.980998	-0.382061
-583.341339	-59.613626	-1284.980	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.345497	89.372515	7.868126
219.948460	43.073697	1220.647	
0.25000	13.345497	100.354002	7.868126
241.164824	43.052254	1410.808	
0.50000	13.345497	112.304581	7.868126
263.428832	43.608395	1629.844	
0.75000	13.345497	124.982011	7.868126
287.091070	44.468948	1858.739	
1.00000	13.345497	139.142984	7.868126
321.151981	45.648234	2090.193	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.831341	-359.928564	-3.463439
-607.928209	-42.377094	-1765.423	
0.25000	-13.831341	-345.572003	-3.463439
-578.396714	-45.647160	-1707.576	
0.50000	-13.831341	-332.414906	-3.463439
-560.336966	-49.872679	-1650.015	
0.75000	-13.831341	-319.687662	-3.463439
-542.213084	-55.039481	-1592.667	
1.00000	-13.831341	-307.613913	-3.463439
-541.796952	-61.031565	-1535.865	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.933623	24.165684	3.917216
26.072189	11.106028	262.335544	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1677

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	3.933623	24.294761	3.917216
26.416949	8.714475	325.085488	
0.50000	3.933623	24.435039	3.917216
26.783879	6.746259	396.080269	
0.75000	3.933623	24.583574	3.917216
27.169134	5.401057	473.464282	
1.00000	3.933623	24.752842	3.917216
27.620543	4.282725	556.275900	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.066200	-81.706715	-0.121109
-229.148151	-13.805893	-582.037002	
0.25000	-4.066200	-81.535367	-0.121109
-228.719706	-16.459157	-566.952147	
0.50000	-4.066200	-81.381663	-0.121109
-228.346995	-19.453610	-551.981043	
0.75000	-4.066200	-81.232876	-0.121109
-228.018674	-22.876902	-537.010476	
1.00000	-4.066200	-81.091482	-0.121109
-227.783519	-26.530989	-522.130757	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.567767	49.458458	3.788044
85.022949	11.436120	784.573569	
0.25000	5.567767	49.470192	3.788044
85.054291	10.971526	903.855014	
0.50000	5.567767	49.482945	3.788044
85.087648	10.851559	1055.969	
0.75000	5.567767	49.496448	3.788044
85.122671	10.940908	1243.573	
1.00000	5.567767	49.511836	3.788044
85.163708	11.209740	1456.036	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.804949	-210.921004	-1.328634
-383.316879	-20.820105	-1287.019	
0.25000	-5.804949	-210.905427	-1.328634
-383.277930	-22.351980	-1238.792	
0.50000	-5.804949	-210.891454	-1.328634
-383.244047	-24.322910	-1190.619	
0.75000	-5.804949	-210.877928	-1.328634
-383.214200	-26.817450	-1142.447	
1.00000	-5.804949	-210.865074	-1.328634
-383.192822	-29.785082	-1094.419	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.344086	63.734025	7.727704
124.497167	32.775826	858.513443	
0.25000	10.344086	63.744585	7.727704
124.525375	30.800242	985.231074	
0.50000	10.344086	63.756063	7.727704
124.555396	29.134935	1161.695	
0.75000	10.344086	63.768216	7.727704
124.586917	27.656072	1372.520	
1.00000	10.344086	63.781823	7.727704
124.623850	26.327334	1607.789	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.788934	-229.582055	-1.193804
-555.161233	-31.891380	-1523.612	
0.25000	-10.788934	-229.568006	-1.193804
-555.126178	-36.291564	-1481.454	
0.50000	-10.788934	-229.555430	-1.193804
-555.095683	-41.550213	-1439.390	
0.75000	-10.788934	-229.543256	-1.193804
-555.068821	-47.690134	-1397.677	
1.00000	-10.788934	-229.531688	-1.193804
-555.049581	-54.558321	-1356.095	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1678

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.808832	103.496228	6.668809
313.614686	41.128348	1467.641	
0.25000	13.808832	120.360835	6.668809
313.614686	42.133734	1705.133	
0.50000	13.808832	138.745396	6.668809
330.185969	44.009663	1953.909	
0.75000	13.808832	158.297096	6.668809
355.206215	46.467233	2200.349	
1.00000	13.808832	179.537555	6.668809
377.494273	49.390659	2438.968	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.221619	-445.922376	-5.219772
-503.186307	-46.315764	-1912.410	
0.25000	-14.221619	-424.342338	-5.219772
-492.943563	-48.940755	-1836.486	
0.50000	-14.221619	-403.970178	-5.219772
-492.943563	-51.788909	-1760.642	
0.75000	-14.221619	-384.282413	-5.219772
-492.943563	-55.374967	-1685.189	
1.00000	-14.221619	-365.649404	-5.219772
-492.943563	-59.573051	-1610.033	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.992620	77.737816	0.375719
470.274637	26.049604	1206.987	
0.25000	8.992620	99.300534	0.375719
470.274637	30.078551	1394.910	
0.50000	8.992620	122.918809	0.375719
470.274637	35.151091	1549.339	
0.75000	8.992620	148.157943	0.375719
470.274637	41.132102	1666.640	
1.00000	8.992620	174.070516	0.375719
470.274637	47.943485	1758.621	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.035043	-378.321440	-7.272584
-72.848865	-34.097837	-1006.499	
0.25000	-9.035043	-351.874037	-7.272584
-72.848865	-31.687846	-940.323327	
0.50000	-9.035043	-325.371833	-7.272584
-72.848865	-29.275056	-874.147573	
0.75000	-9.035043	-299.804960	-7.272584
-72.848865	-26.872620	-808.143836	
1.00000	-9.035043	-275.731998	-7.272584
-72.848865	-24.466230	-742.429588	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.585956	107.897438	0.735160
572.850848	31.818855	1805.745	
0.25000	11.585956	133.674167	0.735160
572.850848	37.697700	2061.899	
0.50000	11.585956	161.550085	0.735160
572.850848	44.806729	2295.989	
0.75000	11.585956	191.919648	0.735160
572.850848	53.298915	2514.716	
1.00000	11.585956	223.307707	0.735160
572.850848	62.737501	2714.474	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.806657	-540.944705	-9.841072
-184.933273	-47.678626	-1673.625	
0.25000	-11.806657	-508.953529	-9.841072
-184.933273	-44.316253	-1572.691	
0.50000	-11.806657	-477.450019	-9.841072
-184.933273	-40.984042	-1471.759	
0.75000	-11.806657	-447.045027	-9.841072
-184.933273	-37.675708	-1371.016	
1.00000	-11.806657	-418.361180	-9.841072
-184.933273	-34.386220	-1270.603	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1679

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.662330	118.367800	2.422238
508.005414	31.073852	1882.979	
0.25000	12.662330	142.011578	2.422238
508.005414	35.638245	2173.458	
0.50000	12.662330	167.851714	2.422238
508.005414	41.464747	2453.502	
0.75000	12.662330	195.424811	2.422238
508.005414	48.419559	2724.450	
1.00000	12.662330	224.254752	2.422238
508.005414	56.201089	2979.953	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.868274	-566.406853	-8.394682
-344.273288	-48.619251	-2046.527	
0.25000	-12.868274	-537.027023	-8.394682
-344.273288	-46.489191	-1936.228	
0.50000	-12.868274	-508.145593	-8.394682
-344.273288	-44.664982	-1829.934	
0.75000	-12.868274	-480.270013	-8.394682
-344.273288	-43.168932	-1721.811	
1.00000	-12.868274	-453.967247	-8.394682
-344.273288	-41.976513	-1614.036	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.665885	115.022404	5.677814
456.208052	42.000321	1699.900	
0.25000	14.665885	134.735279	5.677814
456.208052	44.081673	1968.056	
0.50000	14.665885	156.279213	5.677814
456.208052	47.226462	2239.192	
0.75000	14.665885	179.267861	5.677814
456.208052	51.330609	2505.389	
1.00000	14.665885	203.305974	5.677814
456.208052	56.172174	2761.211	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.008657	-510.983266	-7.045656
-463.991856	-51.872842	-2040.232	
0.25000	-15.008657	-486.486797	-7.045656
-463.991856	-52.845218	-1948.056	
0.50000	-15.008657	-462.407565	-7.045656
-463.991856	-54.401373	-1856.056	
0.75000	-15.008657	-439.166824	-7.045656
-463.991856	-56.540732	-1764.292	
1.00000	-15.008657	-417.237355	-7.045656
-463.991856	-59.225788	-1672.920	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.712529	41.703070	6.647293
139.728765	45.266580	400.760392	
0.25000	10.712529	41.708668	6.647293
139.744428	41.627472	416.644287	
0.50000	10.712529	41.714877	6.647293
139.761712	38.569293	442.986116	
0.75000	10.712529	41.721577	6.647293
139.780224	36.015289	491.706298	
1.00000	10.712529	41.728630	6.647293
139.799557	33.865685	547.633978	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.466383	-58.101964	-0.481748
-337.158878	-17.994029	-573.033608	
0.25000	-9.466383	-58.093114	-0.481748
-337.141898	-21.412059	-573.545828	
0.50000	-9.466383	-58.084509	-0.481748
-337.125673	-25.724375	-578.824070	
0.75000	-9.466383	-58.076290	-0.481748
-337.110613	-30.826743	-605.662353	
1.00000	-9.466383	-58.068584	-0.481748
-337.097046	-36.517321	-640.088777	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1680

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.384463	73.327303	12.915304
202.017385	68.220748	754.188904	
0.25000	16.384463	73.332898	12.915304
202.033024	60.190720	795.439661	
0.50000	16.384463	73.339105	12.915304
202.050282	53.342314	859.925890	
0.75000	16.384463	73.345801	12.915304
202.068767	47.530231	963.710292	
1.00000	16.384463	73.352851	12.915304
202.088071	42.573821	1090.011	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.230571	-134.091224	-0.305618
-598.631888	-30.126038	-1177.448	
0.25000	-15.230571	-134.082378	-0.305618
-598.614943	-36.732241	-1151.577	
0.50000	-15.230571	-134.073776	-0.305618
-598.598753	-45.011452	-1135.107	
0.75000	-15.230571	-134.065559	-0.305618
-598.583726	-54.900475	-1169.104	
1.00000	-15.230571	-134.057854	-0.305618
-598.570192	-65.938816	-1217.851	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.708087	102.149481	12.200917
192.825351	64.283963	1193.163	
0.25000	16.708087	102.310601	12.200917
193.275590	57.138697	1264.399	
0.50000	16.708087	102.483326	12.200917
193.772444	51.200444	1376.335	
0.75000	16.708087	102.682163	12.200917
194.304611	46.195521	1542.687	
1.00000	16.708087	102.885162	12.200917
194.860351	41.883061	1766.142	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.949558	-252.995817	-0.586214
-707.726488	-31.805013	-1946.243	
0.25000	-14.949558	-252.741064	-0.586214
-707.238743	-37.924037	-1837.256	
0.50000	-14.949558	-252.493336	-0.586214
-706.772709	-45.661327	-1771.000	
0.75000	-14.949558	-252.256704	-0.586214
-706.340150	-54.866148	-1756.194	
1.00000	-14.949558	-252.034832	-0.586214
-705.950612	-65.115717	-1796.078	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.720299	138.068907	10.557933
320.572459	65.902234	1641.617	
0.25000	19.720299	146.115351	10.557933
340.824681	62.091562	1752.952	
0.50000	19.720299	155.040289	10.557933
363.217941	59.668042	1899.394	
0.75000	19.720299	164.664656	10.557933
387.242944	58.392109	2093.974	
1.00000	19.720299	174.784719	10.557933
412.213057	58.030836	2348.685	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.412420	-422.722885	-4.847537
-729.302514	-50.735535	-2505.475	
0.25000	-17.412420	-409.817985	-4.847537
-708.846626	-53.018246	-2308.641	
0.50000	-17.412420	-397.240621	-4.847537
-689.288465	-57.020914	-2165.045	
0.75000	-17.412420	-385.201251	-4.847537
-671.203593	-62.557839	-2086.308	
1.00000	-17.412420	-373.902863	-4.847537
-658.939813	-69.196854	-2084.912	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.094629	37.485112	5.856687
49.343765	19.112076	452.171558	
0.25000	5.094629	37.541063	5.856687
49.500158	14.782671	485.208414	
0.50000	5.094629	37.603128	5.856687
49.672741	11.066055	534.099917	
0.75000	5.094629	37.670094	5.856687
49.857590	8.099584	604.490864	
1.00000	5.094629	37.740588	5.856687
50.050628	5.779815	698.991062	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.116514	-106.303792	-0.131856
-274.927706	-12.219767	-788.667536	
0.25000	-5.116514	-106.215329	-0.131856
-274.758259	-14.654811	-737.367013	
0.50000	-5.116514	-106.129305	-0.131856
-274.596356	-17.893346	-707.027443	
0.75000	-5.116514	-106.047136	-0.131856
-274.446080	-22.095568	-694.417676	
1.00000	-5.116514	-105.970092	-0.131856
-274.310746	-27.135430	-704.402674	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.852530	82.807789	5.572725
98.926985	22.482424	1091.107	
0.25000	7.852530	82.813366	5.572725
98.942642	19.918475	1151.575	
0.50000	7.852530	82.819595	5.572725
98.959919	18.218303	1256.391	
0.75000	7.852530	82.826294	5.572725
98.978425	17.214225	1412.368	
1.00000	7.852530	82.833346	5.572725
98.997751	16.644830	1639.475	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.789041	-272.523676	-1.979163
-427.038892	-22.246216	-1819.481	
0.25000	-6.789041	-272.514827	-1.979163
-427.021920	-23.511015	-1659.280	
0.50000	-6.789041	-272.506223	-1.979163
-427.005704	-25.767131	-1548.019	
0.75000	-6.789041	-272.498004	-1.979163
-426.990652	-28.990607	-1478.537	
1.00000	-6.789041	-272.490298	-1.979163
-426.977095	-32.881996	-1472.749	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.820830	106.591776	10.950394
187.512640	53.025556	1302.879	
0.25000	14.820830	106.596814	10.950394
187.526732	47.165442	1374.014	
0.50000	14.820830	106.602402	10.950394
187.542281	42.534704	1494.811	
0.75000	14.820830	106.608431	10.950394
187.558936	38.876386	1678.340	
1.00000	14.820830	106.614778	10.950394
187.576330	35.889828	1933.267	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.302934	-297.688242	-1.797375
-654.705948	-33.337313	-2194.956	
0.25000	-13.302934	-297.680278	-1.797375
-654.690673	-37.835311	-2045.508	
0.50000	-13.302934	-297.672534	-1.797375
-654.676079	-43.874220	-1947.263	
0.75000	-13.302934	-297.665138	-1.797375
-654.662532	-51.632089	-1903.550	
1.00000	-13.302934	-297.658202	-1.797375
-654.650331	-59.788747	-1924.409	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.028469	150.873246	9.445393
402.278205	60.558064	1832.303	
0.25000	20.028469	162.825446	9.445393
409.063014	58.239432	1971.074	
0.50000	20.028469	176.083019	9.445393
431.508577	57.455435	2139.345	
0.75000	20.028469	190.358516	9.445393
460.450031	57.930966	2344.727	
1.00000	20.028469	205.332076	9.445393
488.639714	59.427818	2609.152	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.002149	-508.433016	-6.844100
-638.978492	-59.059378	-2804.347	
0.25000	-18.002149	-488.843149	-6.844100
-617.810909	-59.495588	-2557.129	
0.50000	-18.002149	-469.689867	-6.844100
-607.226167	-61.594992	-2371.996	
0.75000	-18.002149	-451.302373	-6.844100
-607.172759	-65.155203	-2253.906	
1.00000	-18.002149	-434.008251	-6.844100
-607.169359	-69.780164	-2224.866	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.007615	95.769524	0.549400
557.665410	28.973587	1187.471	
0.25000	13.007615	110.380424	0.549400
553.274363	32.646094	1299.263	
0.50000	13.007615	126.583541	0.549400
548.883317	37.580738	1402.968	
0.75000	13.007615	143.999176	0.549400
544.492271	43.601545	1494.970	
1.00000	13.007615	162.156911	0.549400
540.101225	50.311320	1593.505	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.970911	-393.162691	-8.893381
-129.212533	-53.496152	-1537.134	
0.25000	-11.970911	-368.132456	-8.893381
-129.212533	-48.017195	-1341.354	
0.50000	-11.970911	-343.500990	-8.893381
-129.212533	-43.221374	-1175.679	
0.75000	-11.970911	-319.732483	-8.893381
-129.212533	-38.980951	-1041.876	
1.00000	-11.970911	-297.284852	-8.893381
-129.212533	-35.141577	-962.758749	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.673547	145.390023	1.074027
657.559876	39.559443	1843.528	
0.25000	17.673547	162.436356	1.074027
657.074081	44.806393	1983.744	
0.50000	17.673547	181.331155	1.074027
656.588286	51.713348	2138.096	
0.75000	17.673547	201.651942	1.074027
656.102491	60.223210	2307.338	
1.00000	17.673547	222.866578	1.074027
655.616697	69.714454	2518.830	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.598365	-577.628388	-12.721433
-252.064532	-73.857037	-2537.252	
0.25000	-15.598365	-548.736724	-12.721433
-252.064532	-65.840607	-2235.742	
0.50000	-15.598365	-520.355697	-12.721433
-252.064532	-58.941515	-1983.050	
0.75000	-15.598365	-492.997256	-12.721433
-252.064532	-52.987266	-1786.482	
1.00000	-15.598365	-467.174671	-12.721433
-252.064532	-47.680815	-1679.915	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.414871	163.213326	3.522277
598.971204	41.974483	2083.050	
0.25000	18.414871	178.853983	3.522277
599.055788	44.890917	2243.700	
0.50000	18.414871	196.189632	3.522277
599.140373	49.580131	2430.498	
0.75000	18.414871	214.835914	3.522277
599.224957	55.788162	2645.631	
1.00000	18.414871	234.303755	3.522277
599.309541	63.087555	2926.667	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.300442	-625.698793	-10.723571
-426.032842	-70.223836	-3012.145	
0.25000	-16.300442	-599.225696	-10.723571
-426.032842	-64.581279	-2678.113	
0.50000	-16.300442	-573.225068	-10.723571
-426.032842	-60.324791	-2412.127	
0.75000	-16.300442	-548.164313	-10.723571
-426.032842	-57.332050	-2214.852	
1.00000	-16.300442	-524.513963	-10.723571
-426.032842	-55.292110	-2125.512	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.078376	162.386614	8.394091
567.197015	58.994957	2011.112	
0.25000	21.078376	175.425985	8.394091
567.285146	57.962208	2162.717	
0.50000	21.078376	189.878136	8.394091
567.373278	58.860925	2345.463	
0.75000	21.078376	205.423106	8.394091
567.461409	61.366081	2565.227	
1.00000	21.078376	221.653094	8.394091
567.549541	65.024755	2848.647	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.187507	-573.182825	-8.975009
-581.446625	-69.177030	-2538.137	
0.25000	-19.187507	-551.114038	-8.975009
-581.446625	-67.580362	-2718.138	
0.50000	-19.187507	-529.439266	-8.975009
-581.446625	-67.729231	-2494.292	
0.75000	-19.187507	-508.548126	-8.975009
-581.446625	-69.436159	-2338.699	
1.00000	-19.187507	-488.832792	-8.975009
-581.446625	-72.319341	-2281.640	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.665885	118.367800	9.590801
572.850848	46.067317	1882.979	
0.25000	14.665885	142.011578	9.590801
572.850848	44.081673	2173.458	
0.50000	14.665885	167.851714	9.590801
572.850848	47.226462	2453.502	
0.75000	14.665885	195.424811	9.590801
572.850848	53.298915	2724.450	
1.00000	14.665885	224.254752	9.590801
572.850848	62.737501	2979.953	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.008657	-566.406853	-9.841072
-607.928209	-51.872842	-2046.527	
0.25000	-15.008657	-537.027023	-9.841072
-583.417936	-52.845218	-1948.056	
0.50000	-15.008657	-508.145593	-9.841072
-583.387442	-54.401373	-1856.056	
0.75000	-15.008657	-480.270013	-9.841072
-583.360579	-56.540732	-1764.292	
1.00000	-15.008657	-453.967247	-9.841072
-583.341339	-61.607738	-1672.920	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.078376	163.213326	12.915304
657.559876	68.220748	2083.050	
0.25000	21.078376	178.853983	12.915304
657.074081	62.091562	2243.700	
0.50000	21.078376	196.189632	12.915304
656.588286	59.668042	2430.498	
0.75000	21.078376	214.835914	12.915304
656.102491	61.366081	2645.631	
1.00000	21.078376	234.303755	12.915304
655.616697	69.714454	2926.667	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.187507	-625.698793	-12.721433
-729.302514	-73.857037	-3012.145	
0.25000	-19.187507	-599.225696	-12.721433
-708.846626	-67.580362	-2718.138	
0.50000	-19.187507	-573.225068	-12.721433
-706.772709	-67.729231	-2494.292	
0.75000	-19.187507	-548.164313	-12.721433
-706.340150	-69.436159	-2338.699	
1.00000	-19.187507	-524.513963	-12.721433
-705.950612	-72.319341	-2281.640	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.078376	163.213326	12.915304
657.559876	68.220748	2083.050	
0.25000	21.078376	178.853983	12.915304
657.074081	62.091562	2243.700	
0.50000	21.078376	196.189632	12.915304
656.588286	59.668042	2453.502	
0.75000	21.078376	214.835914	12.915304
656.102491	61.366081	2724.450	
1.00000	21.078376	234.303755	12.915304
655.616697	69.714454	2979.953	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.187507	-625.698793	-12.721433
-729.302514	-73.857037	-3012.145	
0.25000	-19.187507	-599.225696	-12.721433
-708.846626	-67.580362	-2718.138	
0.50000	-19.187507	-573.225068	-12.721433
-706.772709	-67.729231	-2494.292	
0.75000	-19.187507	-548.164313	-12.721433
-706.340150	-69.436159	-2338.699	
1.00000	-19.187507	-524.513963	-12.721433
-705.950612	-72.319341	-2281.640	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	21.078376	163.213326	12.915304
657.559876	68.220748	2083.050	
0.25000	21.078376	178.853983	12.915304
657.074081	62.091562	2243.700	
0.50000	21.078376	196.189632	12.915304
656.588286	59.668042	2453.502	
0.75000	21.078376	214.835914	12.915304
656.102491	61.366081	2724.450	
1.00000	21.078376	234.303755	12.915304
655.616697	69.714454	2979.953	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.187507	-625.698793	-12.721433
-729.302514	-73.857037	-3012.145	
0.25000	-19.187507	-599.225696	-12.721433
-708.846626	-67.580362	-2718.138	
0.50000	-19.187507	-573.225068	-12.721433
-706.772709	-67.729231	-2494.292	
0.75000	-19.187507	-548.164313	-12.721433
-706.340150	-69.436159	-2338.699	
1.00000	-19.187507	-524.513963	-12.721433
-705.950612	-72.319341	-2281.640	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 141 ========== LENGTH = 4.927664

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.607179	24.114940	5.415949
51.971706	25.235693	347.857874	
0.25000	6.607179	24.127060	5.415949
52.001675	22.923579	385.320297	
0.50000	6.607179	24.140179	5.415949
52.034325	20.634628	424.203447	
0.75000	6.607179	24.154102	5.415949
52.069180	18.365502	464.121737	
1.00000	6.607179	24.169941	5.415949
52.110319	16.116370	504.922585	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.934587	-37.294401	-0.309525
-207.220105	-32.834355	-446.342295	
0.25000	-6.934587	-37.278558	-0.309525
-207.181351	-35.908328	-437.439446	
0.50000	-6.934587	-37.264447	-0.309525
-207.147953	-39.668166	-428.580461	
0.75000	-6.934587	-37.250791	-0.309525
-207.115878	-44.039825	-419.856557	
1.00000	-6.934587	-37.237822	-0.309525
-207.093775	-48.953681	-411.132670	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.609779	44.624435	8.647220
79.926747	31.631339	745.938203	
0.25000	10.609779	44.636551	8.647220
79.956670	28.118897	822.228421	
0.50000	10.609779	44.649665	8.647220
79.989273	25.001059	904.118987	
0.75000	10.609779	44.663584	8.647220
80.024079	21.797240	989.652453	
1.00000	10.609779	44.679414	8.647220
80.065155	18.819334	1078.365	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.118087	-84.580940	-1.258442
-376.245362	-60.453812	-865.953965	
0.25000	-11.118087	-84.565106	-1.258442
-376.206666	-63.835866	-842.248349	
0.50000	-11.118087	-84.550999	-1.258442
-376.173315	-68.522452	-818.674108	
0.75000	-11.118087	-84.537348	-1.258442
-376.141461	-74.523010	-795.173190	
1.00000	-11.118087	-84.524383	-1.258442
-376.119393	-81.651927	-771.698427	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.819995	61.524671	8.088363
109.228361	30.441523	1338.948	
0.25000	10.819995	61.535577	8.088363
109.255302	27.545754	1451.202	
0.50000	10.819995	61.547380	8.088363
109.284655	24.784882	1579.179	
0.75000	10.819995	61.559908	8.088363
109.315992	22.118522	1722.339	
1.00000	10.819995	61.574157	8.088363
109.352974	19.643734	1876.913	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.336433	-154.372287	-1.778161
-479.776552	-58.117545	-1285.198	
0.25000	-11.336433	-154.358034	-1.778161
-479.741712	-60.586446	-1238.761	
0.50000	-11.336433	-154.345337	-1.778161
-479.711686	-64.364451	-1192.451	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.552883	109.289787	7.118661
223.404236	46.001469	2091.653	
0.25000	12.552883	120.628870	7.118661
245.765549	44.629188	2250.265	
0.50000	12.552883	132.923049	7.118661
267.911888	44.216141	2410.917	
0.75000	12.552883	145.978557	7.118661
296.943180	44.046524	2577.907	
1.00000	12.552883	160.526523	7.118661
330.685548	44.315997	2745.540	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.100053	-310.588347	-4.301192
-525.935674	-59.747687	-1535.981	
0.25000	-13.100053	-296.009833	-4.301192
-494.113149	-60.770879	-1469.358	
0.50000	-13.100053	-282.744155	-4.301192
-475.596683	-62.891274	-1402.841	
0.75000	-13.100053	-269.935468	-4.301192
-457.256419	-66.145014	-1336.391	
1.00000	-13.100053	-257.812111	-4.301192
-451.060826	-70.428294	-1269.992	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.678701	24.370781	2.882835
20.577204	4.508220	557.064923	
0.25000	3.678701	24.504071	2.882835
20.901984	3.798770	607.480841	
0.50000	3.678701	24.648338	2.882835
21.260748	3.154397	663.325873	
0.75000	3.678701	24.801452	2.882835
21.643751	2.573565	724.382494	
1.00000	3.678701	24.975612	2.882835
22.095759	2.205584	789.326053	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.821313	-67.306387	-1.231566
-190.748478	-25.967872	-522.180986	
0.25000	-3.821313	-67.132184	-1.231566
-190.322661	-25.714259	-500.849689	
0.50000	-3.821313	-66.976994	-1.231566
-189.955672	-26.125949	-479.516392	
0.75000	-3.821313	-66.826825	-1.231566
-189.694673	-27.219688	-458.187157	
1.00000	-3.821313	-66.684197	-1.231566
-189.361823	-28.945788	-436.856140	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.218310	57.027374	2.814044
125.476285	12.126873	1457.014	
0.25000	5.218310	57.039491	2.814044
125.506220	12.032261	1539.107	
0.50000	5.218310	57.052606	2.814044
125.538635	12.217363	1640.480	
0.75000	5.218310	57.066525	2.814044
125.573653	12.577356	1790.428	
1.00000	5.218310	57.082358	2.814044
125.614745	13.211828	1956.186	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.487011	-174.960696	-2.423845
-331.135670	-28.924400	-1094.458	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-5.487011	-174.944859	-2.423845
-331.096959	-27.883405	-1042.379	
0.50000	-5.487011	-174.930751	-2.423845
-331.063597	-27.498663	-990.300753	
0.75000	-5.487011	-174.917099	-2.423845
-331.031688	-27.866837	-938.248120	
1.00000	-5.487011	-174.904133	-2.423845
-331.009610	-28.966303	-886.199322	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.694939	70.790707	6.532062
150.533840	26.661339	1609.535	
0.25000	9.694939	70.801613	6.532062
150.560781	24.888467	1716.042	
0.50000	9.694939	70.813417	6.532062
150.590135	23.369850	1848.547	
0.75000	9.694939	70.825944	6.532062
150.621471	22.014025	2011.446	
1.00000	9.694939	70.840194	6.532062
150.658454	20.877892	2196.281	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.186143	-190.371090	-2.556237
-464.465378	-53.274536	-1356.242	
0.25000	-10.186143	-190.356837	-2.556237
-464.430538	-54.189149	-1300.479	
0.50000	-10.186143	-190.344140	-2.556237
-464.400512	-56.296023	-1244.743	
0.75000	-10.186143	-190.331853	-2.556237
-464.371794	-59.596094	-1189.031	
1.00000	-10.186143	-190.320184	-2.556237
-464.351924	-64.012671	-1133.416	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.019553	132.866312	5.932956
294.411186	50.057900	2439.763	
0.25000	13.019553	150.276159	5.932956
296.167722	50.150862	2625.894	
0.50000	13.019553	169.197076	5.932956
321.545679	51.081339	2803.250	
0.75000	13.019553	189.305327	5.932956
345.330983	52.737302	2975.017	
1.00000	13.019553	211.078661	5.932956
367.208719	55.025464	3137.056	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.490362	-387.530093	-5.987585
-434.769954	-58.375824	-1610.048	
0.25000	-13.490362	-365.653325	-5.987585
-413.981241	-57.780051	-1533.582	
0.50000	-13.490362	-345.151857	-5.987585
-408.161518	-58.172671	-1457.140	
0.75000	-13.490362	-325.414886	-5.987585
-408.161518	-59.564395	-1380.713	
1.00000	-13.490362	-306.822266	-5.987585
-408.161518	-61.892329	-1304.431	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.558814	117.034310	1.063435
399.988236	48.562764	1757.089	
0.25000	8.558814	139.301094	1.063435
399.988236	51.189839	1887.642	
0.50000	8.558814	163.627937	1.063435
399.988236	54.915147	1984.551	
0.75000	8.558814	189.518472	1.063435
399.988236	59.700616	2047.750	
1.00000	8.558814	215.957847	1.063435
399.988236	65.488714	2080.923	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1688

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.632803	-335.760090	-6.780912
-45.110377	-24.224233	-742.229545	
0.25000	-8.632803	-309.045169	-6.780912
-45.110377	-21.909672	-695.052058	
0.50000	-8.632803	-282.472201	-6.780912
-45.110377	-19.595835	-647.874571	
0.75000	-8.632803	-257.034834	-6.780912
-45.110377	-17.282814	-600.703683	
1.00000	-8.632803	-233.308432	-6.780912
-45.110377	-14.970452	-553.672769	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.078020	161.353118	1.457831
518.959570	63.680810	2712.991	
0.25000	11.078020	187.963518	1.457831
518.959570	67.172073	2884.550	
0.50000	11.078020	216.978069	1.457831
518.959570	72.178144	3031.967	
0.75000	11.078020	247.846972	1.457831
518.959570	78.525939	3162.960	
1.00000	11.078020	279.918091	1.457831
518.959570	86.065498	3276.887	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.337208	-476.277439	-8.841816
-148.914224	-34.179401	-1270.368	
0.25000	-11.337208	-443.927092	-8.841816
-148.914224	-31.053119	-1193.289	
0.50000	-11.337208	-412.306109	-8.841816
-148.914224	-27.938467	-1116.209	
0.75000	-11.337208	-381.986399	-8.841816
-148.914224	-24.841777	-1039.161	
1.00000	-11.337208	-353.616085	-8.841816
-148.914224	-21.761630	-962.275689	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.999859	164.980006	2.505833
472.734369	57.828593	2979.129	
0.25000	11.999859	189.388732	2.505833
472.734369	60.670678	3180.775	
0.50000	11.999859	215.997361	2.505833
472.734369	64.871647	3367.520	
0.75000	11.999859	244.305591	2.505833
472.734369	70.325155	3543.638	
1.00000	11.999859	273.767017	2.505833
472.734369	76.840968	3704.827	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.261723	-494.311015	-8.640487
-285.372129	-41.113448	-1613.854	
0.25000	-12.261723	-464.598087	-8.640487
-285.372129	-37.820801	-1523.416	
0.50000	-12.261723	-435.605864	-8.640487
-285.372129	-34.903745	-1432.979	
0.75000	-12.261723	-407.804112	-8.640487
-285.372129	-32.401692	-1342.563	
1.00000	-12.261723	-381.777626	-8.640487
-285.372129	-30.343865	-1252.294	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.853909	153.976421	5.160945
421.759919	57.106613	2761.244	
0.25000	13.853909	174.327076	5.160945
421.759919	58.310941	2959.679	
0.50000	13.853909	196.511712	5.160945
421.759919	60.646336	3146.804	
0.75000	13.853909	220.113337	5.160945
421.759919	64.034440	3326.347	
1.00000	13.853909	244.678112	5.160945
421.759919	68.388885	3494.500	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1689

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.256331	-443.957524	-7.722014
-379.138825	-58.084452	-1672.844	
0.25000	-14.256331	-419.183214	-7.722014
-379.138825	-56.210255	-1587.950	
0.50000	-14.256331	-395.011508	-7.722014
-379.138825	-55.196004	-1503.055	
0.75000	-14.256331	-371.832186	-7.722014
-379.138825	-55.073451	-1418.178	
1.00000	-14.256331	-350.132678	-7.722014
-379.138825	-55.767273	-1333.515	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.120481	38.113189	7.163663
88.665678	32.946421	548.942402	
0.25000	10.120481	38.119207	7.163663
88.680983	29.098384	591.918455	
0.50000	10.120481	38.125881	7.163663
88.698089	25.733664	635.042752	
0.75000	10.120481	38.133085	7.163663
88.716673	22.692555	678.596270	
1.00000	10.120481	38.140671	7.163663
88.736311	19.842754	722.223924	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.813766	-54.176915	-0.384211
-260.233905	-35.475140	-640.589008	
0.25000	-8.813766	-54.168344	-0.384211
-260.217100	-39.580209	-665.526479	
0.50000	-8.813766	-54.159992	-0.384211
-260.200803	-44.449114	-690.544257	
0.75000	-8.813766	-54.152008	-0.384211
-260.185434	-49.930275	-715.584609	
1.00000	-8.813766	-54.144537	-0.384211
-260.171421	-55.758498	-740.654526	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.532454	70.090027	11.015105
128.203561	41.566537	1092.273	
0.25000	15.532454	70.096042	11.015105
128.218842	35.967248	1183.971	
0.50000	15.532454	70.102714	11.015105
128.235922	31.108311	1276.484	
0.75000	15.532454	70.109914	11.015105
128.254476	26.785689	1371.118	
1.00000	15.532454	70.117496	11.015105
128.274082	22.875273	1467.022	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.161404	-120.962729	-1.124379
-461.535836	-64.355097	-1218.522	
0.25000	-14.161404	-120.954161	-1.124379
-461.519067	-69.804161	-1253.800	
0.50000	-14.161404	-120.945812	-1.124379
-461.502804	-76.520199	-1290.368	
0.75000	-14.161404	-120.937831	-1.124379
-461.487467	-84.593577	-1326.977	
1.00000	-14.161404	-120.930362	-1.124379
-461.473485	-93.468787	-1363.640	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.023302	101.249648	10.412185
151.082342	41.655184	1768.672	
0.25000	16.023302	101.422884	10.412185
151.522271	36.367375	1917.773	
0.50000	16.023302	101.614994	10.412185
152.013961	31.964697	2072.058	
0.75000	16.023302	101.822341	10.412185
152.548123	28.222052	2231.624	
1.00000	16.023302	102.040685	10.412185
153.112551	24.865690	2393.198	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1690

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.964994	-215.155994	-1.675678
-556.651247	-63.636927	-1796.668	
0.25000	-13.964994	-214.909250	-1.675678
-556.168545	-67.983740	-1826.063	
0.50000	-13.964994	-214.668631	-1.675678
-555.700403	-73.784420	-1860.363	
0.75000	-13.964994	-214.438990	-1.675678
-555.258932	-80.935686	-1894.729	
1.00000	-13.964994	-214.223910	-1.675678
-554.856491	-88.874883	-1929.118	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.050208	149.764950	9.288609
267.982699	57.778247	2350.266	
0.25000	19.050208	158.479303	9.288609
287.586819	55.012053	2555.876	
0.50000	19.050208	168.125805	9.288609
309.562989	53.237641	2752.182	
0.75000	19.050208	178.515630	9.288609
333.431961	52.236938	2941.681	
1.00000	19.050208	189.423751	9.288609
358.544400	51.840707	3118.526	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.440380	-357.630501	-4.819363
-592.586526	-67.566949	-2085.250	
0.25000	-16.440380	-345.176075	-4.819363
-572.250910	-69.530696	-2098.501	
0.50000	-16.440380	-333.023890	-4.819363
-552.495947	-72.912577	-2120.377	
0.75000	-16.440380	-321.393478	-4.819363
-533.024845	-77.656906	-2142.207	
1.00000	-16.440380	-310.508925	-4.819363
-517.777931	-83.067068	-2164.237	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.928702	38.189132	3.345852
30.925526	6.199358	699.968201	
0.25000	4.928702	38.249290	3.345852
31.078340	5.022427	763.418022	
0.50000	4.928702	38.316002	3.345852
31.249132	4.095231	827.552900	
0.75000	4.928702	38.388005	3.345852
31.434678	3.339269	894.097829	
1.00000	4.928702	38.463828	3.345852
31.630738	2.746150	962.109464	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.773750	-90.016632	-0.972218
-212.416568	-26.839076	-704.509483	
0.25000	-4.773750	-89.930949	-0.972218
-212.248874	-27.766003	-711.388380	
0.50000	-4.773750	-89.847463	-0.972218
-212.086241	-29.075201	-720.693328	
0.75000	-4.773750	-89.767650	-0.972218
-211.932871	-31.298637	-729.999320	
1.00000	-4.773750	-89.692963	-0.972218
-211.793057	-34.068046	-739.310832	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.792840	90.363067	3.473108
115.697208	17.528661	1640.686	
0.25000	7.792840	90.369084	3.473108
115.712508	16.687390	1767.934	
0.50000	7.792840	90.375758	3.473108
115.729607	16.383165	1906.991	
0.75000	7.792840	90.382960	3.473108
115.748183	16.436603	2061.891	
1.00000	7.792840	90.390545	3.473108
115.767813	16.783884	2224.908	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1691

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.470011	-223.376417	-2.441295
-348.447020	-32.441872	-1472.786	
0.25000	-6.470011	-223.367846	-2.441295
-348.430224	-32.120614	-1472.670	
0.50000	-6.470011	-223.359495	-2.441295
-348.413936	-32.560683	-1479.733	
0.75000	-6.470011	-223.351512	-2.441295
-348.398574	-33.861269	-1486.810	
1.00000	-6.470011	-223.344041	-2.441295
-348.384569	-35.743567	-1493.857	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.329181	111.864656	8.315159
165.934213	36.064777	1935.395	
0.25000	14.329181	111.870071	8.315159
165.947982	32.550909	2088.186	
0.50000	14.329181	111.876077	8.315159
165.963372	29.827752	2251.956	
0.75000	14.329181	111.882560	8.315159
165.980091	27.643471	2430.368	
1.00000	14.329181	111.889386	8.315159
165.997757	25.833311	2616.366	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.485069	-249.636238	-2.544416
-521.352410	-58.561381	-1924.781	
0.25000	-12.485069	-249.628524	-2.544416
-521.337294	-61.119207	-1934.723	
0.50000	-12.485069	-249.621008	-2.544416
-521.322634	-64.912389	-1951.039	
0.75000	-12.485069	-249.613823	-2.544416
-521.308809	-69.894890	-1967.365	
1.00000	-12.485069	-249.607100	-2.544416
-521.296205	-75.747721	-1973.600	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.428752	170.135488	7.658888
324.268191	59.354976	2609.902	
0.25000	19.428752	183.215804	7.658888
332.536419	58.503597	2846.920	
0.50000	19.428752	197.665307	7.658888
359.097928	58.804610	3064.795	
0.75000	19.428752	213.173209	7.658888
387.783393	59.980143	3265.063	
1.00000	19.428752	229.377004	7.658888
416.117311	61.787105	3443.433	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.061713	-427.285442	-6.773683
-512.091870	-68.115216	-2224.974	
0.25000	-17.061713	-408.478723	-6.773683
-490.753228	-67.923495	-2219.189	
0.50000	-17.061713	-390.092858	-6.773683
-469.946738	-69.054287	-2223.934	
0.75000	-17.061713	-372.474034	-6.773683
-468.306428	-71.376760	-2228.642	
1.00000	-17.061713	-355.977027	-6.773683
-468.297658	-74.583170	-2225.017	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.680551	121.135062	1.347643
435.814801	49.826438	1591.525	
0.25000	12.680551	137.488421	1.347643
431.424704	53.199720	1747.248	
0.50000	12.680551	155.459594	1.347643
427.034607	57.656720	1869.278	
0.75000	12.680551	174.616648	1.347643
422.644509	63.087764	1956.917	
1.00000	12.680551	194.439190	1.347643
418.255148	69.253573	2010.726	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1692

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.526093	-324.918594	-8.155006
-74.265534	-33.999832	-962.459914	
0.25000	-11.526093	-301.147812	-8.155006
-74.265534	-30.000497	-938.939192	
0.50000	-11.526093	-277.803792	-8.155006
-74.265534	-26.488507	-923.858755	
0.75000	-11.526093	-255.383035	-8.155006
-74.265534	-23.326602	-908.843907	
1.00000	-11.526093	-234.384046	-8.155006
-74.265534	-20.480230	-893.764380	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.348210	181.500145	1.985036
542.601397	69.374602	2516.745	
0.25000	17.348210	200.475561	1.985036
542.115707	73.995227	2734.411	
0.50000	17.348210	221.343855	1.985036
541.630017	79.892528	2924.195	
0.75000	17.348210	243.628558	1.985036
541.144327	86.905811	3090.989	
1.00000	17.348210	266.743110	1.985036
540.658638	94.998919	3226.135	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.096169	-476.289304	-10.813332
-181.223096	-46.340482	-1679.011	
0.25000	-15.096169	-448.782942	-10.813332
-181.223096	-41.119638	-1644.037	
0.50000	-15.096169	-421.804795	-10.813332
-181.223096	-36.540142	-1621.341	
0.75000	-15.096169	-395.899436	-10.813332
-181.223096	-32.459199	-1598.485	
1.00000	-15.096169	-371.643251	-10.813332
-181.223096	-28.928319	-1570.211	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.104712	195.778560	3.282126
498.605038	63.475791	2925.500	
0.25000	18.104712	213.177821	3.282126
498.689604	66.829095	3185.001	
0.50000	18.104712	232.314325	3.282126
498.774169	71.591231	3419.002	
0.75000	18.104712	252.753928	3.282126
498.858735	77.403296	3630.706	
1.00000	18.104712	273.960844	3.282126
498.943301	84.163019	3814.555	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.696037	-515.679817	-10.127851
-319.144503	-53.944298	-2125.102	
0.25000	-15.696037	-490.468085	-10.127851
-319.144503	-49.328137	-2098.168	
0.50000	-15.696037	-465.743434	-10.127851
-319.144503	-45.675358	-2086.118	
0.75000	-15.696037	-442.003743	-10.127851
-319.144503	-42.936436	-2073.849	
1.00000	-15.696037	-419.774901	-10.127851
-319.144503	-40.914968	-2061.694	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.518808	189.030380	6.600649
458.364346	64.993549	2848.537	
0.25000	20.518808	203.535349	6.600649
458.452458	65.810897	3100.821	
0.50000	20.518808	219.488630	6.600649
458.540571	68.027183	3337.334	
0.75000	20.518808	236.528391	6.600649
458.628683	71.294680	3545.838	
1.00000	20.518808	254.208037	6.600649
458.716796	75.498716	3736.442	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1693

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.271917	-476.724313	-8.865728
-439.804748	-70.591779	-2281.511	
0.25000	-18.271917	-455.772673	-8.865728
-439.804748	-68.550510	-2262.705	
0.50000	-18.271917	-435.095381	-8.865728
-439.804748	-67.764414	-2259.905	
0.75000	-18.271917	-415.305148	-8.865728
-439.804748	-68.185200	-2256.956	
1.00000	-18.271917	-396.774396	-8.865728
-439.804748	-69.521372	-2254.126	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.853909	164.980006	8.647220
518.959570	63.680810	2979.129	
0.25000	13.853909	189.388732	8.647220
518.959570	67.172073	3180.775	
0.50000	13.853909	216.978069	8.647220
518.959570	72.178144	3367.520	
0.75000	13.853909	247.846972	8.647220
518.959570	78.525939	3543.638	
1.00000	13.853909	279.918091	8.647220
518.959570	86.065498	3704.827	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.256331	-494.311015	-8.841816
-525.935674	-60.453812	-1672.844	
0.25000	-14.256331	-464.598087	-8.841816
-494.113149	-63.835866	-1587.950	
0.50000	-14.256331	-435.605864	-8.841816
-479.711686	-68.522452	-1503.055	
0.75000	-14.256331	-407.804112	-8.841816
-479.682968	-74.523010	-1418.178	
1.00000	-14.256331	-381.777626	-8.841816
-479.663098	-81.651927	-1333.515	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.518808	195.778560	11.015105
542.601397	69.374602	2925.500	
0.25000	20.518808	213.177821	11.015105
542.115707	73.995227	3185.001	
0.50000	20.518808	232.314325	11.015105
541.630017	79.892528	3419.002	
0.75000	20.518808	252.753928	11.015105
541.144327	86.905811	3630.706	
1.00000	20.518808	273.960844	11.015105
540.658638	94.998919	3814.555	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.271917	-515.679817	-10.813332
-592.586526	-70.591779	-2281.511	
0.25000	-18.271917	-490.468085	-10.813332
-572.250910	-69.804161	-2262.705	
0.50000	-18.271917	-465.743434	-10.813332
-555.700403	-76.520199	-2259.905	
0.75000	-18.271917	-442.003743	-10.813332
-555.258932	-84.593577	-2256.956	
1.00000	-18.271917	-419.774901	-10.813332
-554.856491	-93.468787	-2254.126	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.518808	195.778560	11.015105
542.601397	69.374602	2979.129	
0.25000	20.518808	213.177821	11.015105
542.115707	73.995227	3185.001	
0.50000	20.518808	232.314325	11.015105
541.630017	79.892528	3419.002	
0.75000	20.518808	252.753928	11.015105
541.144327	86.905811	3630.706	
1.00000	20.518808	273.960844	11.015105
540.658638	94.998919	3814.555	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1694

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.271917	-515.679817	-10.813332
-592.586526	-70.591779	-2281.511	
0.25000	-18.271917	-490.468085	-10.813332
-572.250910	-69.804161	-2262.705	
0.50000	-18.271917	-465.743434	-10.813332
-555.700403	-76.520199	-2259.905	
0.75000	-18.271917	-442.003743	-10.813332
-555.258932	-84.593577	-2256.956	
1.00000	-18.271917	-419.774901	-10.813332
-554.856491	-93.468787	-2254.126	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.518808	195.778560	11.015105
542.601397	69.374602	2979.129	
0.25000	20.518808	213.177821	11.015105
542.115707	73.995227	3185.001	

```
 0.50000    20.518808   232.314325    11.015105
541.630017   79.892528    3419.002
 0.75000    20.518808   252.753928    11.015105
541.144327   86.905811    3630.706
 1.00000    20.518808   279.318091    11.015105
540.658638   94.998919    3814.555

 COMB  DESIGN  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -18.271917  -515.679817  -10.813332
-592.586526  -70.591779   -2281.511
 0.25000  -18.271917  -490.468085  -10.813332
-572.250910  -69.804161   -2262.705
 0.50000  -18.271917  -465.743434  -10.813332
-555.700403  -76.520199   -2259.905
 0.75000  -18.271917  -442.003743  -10.813332
-555.258932  -84.593577   -2256.956
 1.00000  -18.271917  -419.774901  -10.813332
-554.856491  -93.468787   -2254.126

 ELEM       142 ================== LENGTH
=     4.928648

 COMB DB-G1-1  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    6.222565    23.480644    4.385204
46.957748   15.757312   505.607680
 0.25000    6.222565    23.493110    4.385204
46.987623   13.553486   526.239428
 0.50000    6.222565    23.506518    4.385204
47.020103   11.375595   547.876775
 0.75000    6.222565    23.520646    4.385204
47.054617    9.208801   570.235504
 1.00000    6.222565    23.536720    4.385204
47.095518    7.070364   593.097537

 COMB DB-G1-1  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -6.546364   -24.261283   -1.447107
-125.465950  -48.439262  -411.108093
 0.25000   -6.546364   -24.245123   -1.447107
-125.425466  -49.571410  -393.706743
 0.50000   -6.546364   -24.230767   -1.447107
-125.392016  -51.400682  -376.375743
 0.75000   -6.546364   -24.217009   -1.447107
-125.360100  -53.881721  -359.050387
 1.00000   -6.546364   -24.204100   -1.447107
-125.330495  -56.958607  -341.725042

 COMB DB-G1-2  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    9.985637    44.028555    7.124584
76.863279   18.559829    1079.521
 0.25000    9.985637    44.041017    7.124584
76.893106   15.565253    1119.892
 0.50000    9.985637    44.054420    7.124584
76.925537   12.934093    1163.284
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1695

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
        T           M2           M3
 0.75000    9.985637    44.068543    7.124584
76.960001   10.494803    1209.773
 1.00000    9.985637    44.084609    7.124584
77.000838    8.072539    1259.191

 COMB DB-G1-2  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -10.489066   -57.626155   -3.591862
-242.780999  -80.748800  -771.650191
 0.25000  -10.489066   -57.610004   -3.591862
-242.740612  -80.968458  -735.864877
 0.50000  -10.489066   -57.595652   -3.591862
-242.707209  -82.610622  -700.135098
 0.75000  -10.489066   -57.581899   -3.591862
-242.675341  -85.774502  -664.405319
 1.00000  -10.489066   -57.568995   -3.591862
-242.645783   -90.165138  -628.686232

 COMB DB-G1-3  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   10.169208    60.792629    6.736435
152.927907   19.928266    1878.143
 0.25000   10.169208    60.803846    6.736435
152.954762   17.108766    1929.148
 0.50000   10.169208    60.815909    6.736435
152.983561   14.657443    1983.526
 0.75000   10.169208    60.828622    6.736435
153.014990   12.360924    2071.505
 1.00000   10.169208    60.843082    6.736435
153.051758   10.131123    2162.421

 COMB DB-G1-3  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -10.682241  -111.947731   -4.022448
-343.668979  -74.741082   -1099.937
 0.25000  -10.682241  -111.933193   -4.022448
-343.632609  -74.115052   -1043.501
 0.50000  -10.682241  -111.920276   -4.022448
-343.602536  -74.923386   -987.113912
 0.75000  -10.682241  -111.907897   -4.022448
-343.573843   -77.316147  -930.743937
 1.00000  -10.682241  -111.896282   -4.022448
-343.547231   -81.246835  -874.381241

 COMB DB-G1-4  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   11.832314   125.815906    6.752369
233.701163   44.813114    2746.387
 0.25000   11.832314   137.453836    6.752369
256.241510   42.790699    2829.865
 0.50000   11.832314   150.008211    6.752369
281.346419   41.435244    2912.510
 0.75000   11.832314   163.261662    6.752369
309.945165   40.783667    3000.013
 1.00000   11.832314   178.029388    6.752369
343.364133   40.473066    3088.307

 COMB DB-G1-4  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -12.384173  -256.986605   -5.760168
-437.025478   -69.319938   -1269.982
 0.25000  -12.384173  -242.129847   -5.760168
-405.037393   -68.088421   -1199.581
 0.50000  -12.384173  -228.643975   -5.760168
-377.241029   -68.059248   -1129.224
 0.75000  -12.384173  -215.736515   -5.760168
-357.148218   -69.342116   -1058.877
 1.00000  -12.384173  -203.654230   -5.760168
-340.266852   -71.912208   -988.537082

 COMB DB-G2-1  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    3.454131    24.342243    2.488845
46.305207    2.584853    789.777591
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
```

```
                                1696

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST            P            V2           V3
        T           M2           M3
 0.25000    3.454131    24.479337    2.488845
46.633431    1.853625   811.606612
 0.50000    3.454131    24.626777    2.488845
46.990310    1.460124   840.146575
 0.75000    3.454131    24.782151    2.488845
47.369551    1.163968   872.778292
 1.00000    3.454131    24.958894    2.488845
47.818938    0.934524   909.894997

 COMB DB-G2-1  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -3.595830   -49.481574   -2.313504
-143.655818  -28.520742  -436.836319
 0.25000   -3.595830   -49.303890   -2.313504
-143.211288  -27.081511  -413.077962
 0.50000   -3.595830   -49.146017   -2.313504
-142.843731  -26.529003  -389.319605
 0.75000   -3.595830   -48.994716   -2.313504
-142.493047  -26.835608  -365.561248
 1.00000   -3.595830   -48.852754   -2.313504
-142.167784  -27.809657  -341.811840

 COMB DB-G2-2  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    4.904300    64.954902    2.711786
179.795710   14.107654    1956.688
 0.25000    4.904300    64.967365    2.711786
179.825549   13.533596    1980.366
 0.50000    4.904300    64.980768    2.711786
179.857992   13.490056    2028.716
 0.75000    4.904300    64.994893    2.711786
179.892469   13.708842    2108.880
 1.00000    4.904300    65.010961    2.711786
179.933322   14.098753    2213.841

 COMB DB-G2-2  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -5.177503  -135.758550   -3.314610
-281.941482  -28.275211  -886.198653
 0.25000   -5.177503  -135.742397   -3.314610
-281.901070  -26.168856  -834.430185
 0.50000   -5.177503  -135.728044   -3.314610
-281.867656  -24.876145  -782.667761
 0.75000   -5.177503  -135.714290   -3.314610
-281.835776  -24.514518  -730.918134
 1.00000   -5.177503  -135.701384   -3.314610
-281.806206  -25.117836  -679.176836

 COMB DB-G2-3  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    9.120341    77.497106    5.710493
196.407382   21.343525    2197.264
 0.25000    9.120341    77.508323    5.710493
196.434237   19.549720    2236.407
 0.50000    9.120341    77.520386    5.710493
196.463436   18.185349    2298.411
 0.75000    9.120341    77.533098    5.710493
196.494465   17.059847    2390.100
 1.00000    9.120341    77.547559    5.710493
196.531233   16.106640    2504.541

 COMB DB-G2-3  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -9.612040  -143.721014   -4.480668
-356.699230  -62.986107   -1133.392
 0.25000   -9.612040  -143.706476   -4.480668
-356.662859  -61.483630   -1071.861
 0.50000   -9.612040  -143.693559   -4.480668
-356.632786  -61.296744   -1010.340
 0.75000   -9.612040  -143.681180   -4.480668
-356.604094  -62.526903  -948.826257
 1.00000   -9.612040  -143.669565   -4.480668
-356.577482  -65.155757  -887.318597
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1697

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   12.283704   155.956905    6.253848
276.584908   55.688622    3137.456
 0.25000   12.283704   173.771803    6.253848
282.259435   54.519784    3242.872
 0.50000   12.283704   193.073296    6.253848
307.531113   54.262195    3336.440
 0.75000   12.283704   213.497352    6.253848
331.013510   55.025223    3422.966
 1.00000   12.283704   235.608273    6.253848
352.410923   56.408847    3500.014

 COMB DB-G2-4  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -12.761910  -329.568834   -7.047254
-375.043588  -60.801536   -1304.430
 0.25000  -12.761910  -307.302370   -7.047254
-353.349987  -58.596304   -1228.847
 0.50000  -12.761910  -286.481155   -7.047254
-329.036598  -57.482891   -1153.270
 0.75000  -12.761910  -266.586007   -7.047254
-316.098337  -57.556413   -1077.702
 1.00000  -12.761910  -248.023736   -7.047254
-316.098337  -58.798184   -1002.139

 COMB DB-G3-1  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    8.114347   144.960935    2.658831
298.113784   65.911418    2079.883
 0.25000    8.114347   167.616292    2.658831
298.113784   66.471713    2172.025
 0.50000    8.114347   192.375949    2.658831
298.113784   68.109832    2230.087
 0.75000    8.114347   218.701090    2.658831
298.113784   70.947977    2253.632
 1.00000    8.114347   245.572495    2.658831
298.113784   74.895574    2245.955

 COMB DB-G3-1  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -8.197638  -305.829765   -5.833343
-88.840872  -14.579425  -553.696233
 0.25000   -8.197638  -278.711330   -5.833343
-88.840872  -12.894571  -515.995666
 0.50000   -8.197638  -251.775691   -5.833343
-88.840872  -11.214302  -478.295100
 0.75000   -8.197638  -226.119356   -5.833343
-88.840872   -9.535578  -440.594533
 1.00000   -8.197638  -202.349002   -5.833343
-88.840872   -7.869038  -402.893978

 COMB DB-G3-2  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   10.571936   205.333434    3.583713
415.693130   86.824857    3275.827
 0.25000   10.571936   232.453560    3.583713
415.693130   87.704254    3380.440
 0.50000   10.571936   262.003305    3.583713
415.693130   90.008567    3460.020
 0.75000   10.571936   293.380331    3.583713
415.693130   93.812665    3522.739
 1.00000   10.571936   325.967821    3.583713
415.693130   98.982392    3564.270

 COMB DB-G3-2  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -10.793176  -426.113269   -7.587569
-179.943240  -21.258217  -962.322147
 0.25000  -10.793176  -393.247665   -7.587569
-179.943240  -18.979617  -898.436601
 0.50000  -10.793176  -361.177261   -7.587569
-179.943240  -16.715278  -834.551055
 0.75000  -10.793176  -330.603816   -7.587569
-179.943240  -14.474524  -770.665509
 1.00000  -10.793176  -302.207782   -7.587569
-179.943240  -12.254955  -706.780308
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1698

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   11.345162   200.676886    4.204669
422.248134   78.014916    3704.157
 0.25000   11.345162   225.557352    4.204669
422.248134   78.265778    3820.324
 0.50000   11.345162   252.658553    4.204669
422.248134   79.901933    3918.616
 0.75000   11.345162   281.431825    4.204669
422.248134   82.978268    4005.230
 1.00000   11.345162   311.366904    4.204669
422.248134   87.272250    4077.064

 COMB DB-G3-3  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -11.623795  -432.822834   -8.097122
-280.730165  -29.452684   -1252.327
 0.25000  -11.623795  -402.634249   -8.097122
-280.730165  -26.238061   -1172.901
 0.50000  -11.623795  -373.228311   -8.097122
-280.730165  -23.508434   -1093.487
 0.75000  -11.623795  -345.192532   -8.097122
-280.730165  -21.319666   -1014.078
 1.00000  -11.623795  -319.146949   -8.097122
-280.730165  -19.747869  -934.669510

 COMB DB-G3-4  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   13.080646   183.381689    6.052834
376.367027   69.227762    3494.378
 0.25000   13.080646   204.125795    6.052834
376.367027   68.605702    3607.239
 0.50000   13.080646   226.721164    6.052834
376.367027   69.298480    3705.981
 0.75000   13.080646   250.710482    6.052834
376.367027   71.223163    3795.719
 1.00000   13.080646   275.670163    6.052834
376.367027   74.166187    3873.979

 COMB DB-G3-4  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -13.495025  -382.252695   -8.312096
-325.302143  -54.682828   -1333.521
 0.25000  -13.495025  -357.081708   -8.312096
-325.302143  -51.741664   -1253.578
 0.50000  -13.495025  -332.565020   -8.312096
-325.302143  -49.767112   -1173.640
 0.75000  -13.495025  -309.196696   -8.312096
-325.302143  -48.873380   -1093.712
 1.00000  -13.495025  -287.475255   -8.312096
-325.302143  -49.036290   -1013.789

 COMB DL-G1-1  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    9.665403    37.717015    5.703820
62.882209   19.136886   723.002647
 0.25000    9.665403    37.723490    5.703820
62.897485   16.391957   743.506623
 0.50000    9.665403    37.730605    5.703820
62.914449   13.704190   764.128173
 0.75000    9.665403    37.738207    5.703820
62.932659   11.091350   785.010283
 1.00000    9.665403    37.746125    5.703820
62.951627    8.577723   805.958067

 COMB DL-G1-1  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -8.306147   -42.168864   -1.537732
-155.653180  -54.905280  -740.873629
 0.25000   -8.306147   -42.160411   -1.537732
-155.635469  -57.117737  -704.091220
 0.50000   -8.306147   -42.152219   -1.537732
-155.618452  -59.657905  -767.310990
 0.75000   -8.306147   -42.144458   -1.537732
-155.602622  -62.592125  -780.526667
 1.00000   -8.306147   -42.137288   -1.537732
-155.588423  -65.888010  -793.746175
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1699

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   14.885515    71.448850    8.672521
101.391554   22.340501    1468.365
 0.25000   14.885515    71.455322    8.672521
101.406803   18.640724    1511.431
 0.50000   14.885515    71.462434    8.672521
101.423738   15.334827    1554.955
 0.75000   14.885515    71.470033    8.672521
101.441918   12.310048    1599.437
 1.00000   14.885515    71.477948    8.672521
101.460854    9.465528    1645.192

 COMB DL-G1-2  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -13.340641   -91.516985   -3.516618
-284.928304  -92.323223   -1363.926
 0.25000  -13.340641   -91.508535   -3.516618
-284.910628  -94.284459   -1383.850
 0.50000  -13.340641   -91.500346   -3.516618
-284.893645  -97.054579   -1403.770
 0.75000  -13.340641   -91.492589   -3.516618
-284.877846  -101.012632   -1423.694
 1.00000  -13.340641   -91.485421   -3.516618
-284.863677  -105.781676   -1443.614

 COMB DL-G1-3  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   15.487313   110.579793    8.436483
161.756026   25.023525    2394.674
 0.25000   15.487313   110.766160    8.436483
162.195004   21.479921    2461.075
 0.50000   15.487313   110.970972    8.436483
162.682528   18.336189    2532.174
 0.75000   15.487313   111.189792    8.436483
163.205692   15.523952    2607.935
 1.00000   15.487313   111.417721    8.436483
163.750994   13.033618    2687.652

 COMB DL-G1-3  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -13.192393  -163.496703   -3.989443
-376.439223   -87.953829   -1929.345
 0.25000  -13.192393  -163.253358   -3.989443
-375.930406   -89.237104   -1949.781
 0.50000  -13.192393  -163.017542   -3.989443
-375.441521   -91.370503   -1970.203
 0.75000  -13.192393  -162.794144   -3.989443
-374.986756   -94.659754   -1990.620
 1.00000  -13.192393  -162.587726   -3.989443
-374.578885   -98.927374   -2011.038

 COMB DL-G1-4  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   18.439338   170.673910    8.390694
249.138891   51.997022    3119.428
 0.25000   18.439338   180.054040    8.390694
268.334980   50.186948    3222.810
 0.50000   18.439338   190.352218    8.390694
289.802822   48.852934    3316.511
 0.75000   18.439338   201.397972    8.390694
312.871507   47.837723    3402.511
 1.00000   18.439338   212.762311    8.390694
336.817920   47.192142    3477.777

 COMB DL-G1-4  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -15.591441  -289.412487   -5.988482
-456.681980   -82.015164   -2164.348
 0.25000  -15.591441  -277.169704   -5.988482
-434.978667   -82.747482   -2180.479
 0.50000  -15.591441  -265.279344   -5.988482
-414.051617   -84.205792   -2196.561
 0.75000  -15.591441  -253.997549   -5.988482
-394.653094   -86.633685   -2212.671
 1.00000  -15.591441  -243.560596   -5.988482
-377.464582   -89.879915   -2228.745
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1700

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    4.791642    42.041574    2.694731
49.389334    3.297804   962.676498
 0.25000    4.791642    42.106292    2.694731
49.541825    2.413900   991.943677
 0.50000    4.791642    42.177415    2.694731
49.711176    1.812111   1021.558
 0.75000    4.791642    42.253402    2.694731
49.892976    1.452704   1052.081
 1.00000    4.791642    42.332552    2.694731
50.082329    1.169985   1084.517

 COMB DL-G2-1  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -4.500662   -67.040526   -2.164866
-146.661451  -33.988290  -739.342751
 0.25000   -4.500662   -66.956022   -2.164866
-146.484690  -33.171274  -745.300831
 0.50000   -4.500662   -66.874134   -2.164866
-146.314856  -32.738446  -751.261135
 0.75000   -4.500662   -66.794144   -2.164866
-146.156873  -33.380029  -757.231268
 1.00000   -4.500662   -66.724879   -2.164866
-146.015178  -34.567099  -763.188681

 COMB DL-G2-2  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000    7.688648   106.800378    3.304267
162.675757   17.904104    2225.575
 0.25000    7.688648   106.806852    3.304267
162.691027   17.306208    2274.618
 0.50000    7.688648   106.813966    3.304267
162.707983   17.041333    2330.154
 0.75000    7.688648   106.821567    3.304267
162.726186   17.083185    2410.490
 1.00000    7.688648   106.829485    3.304267
162.745146   17.391575    2496.528

 COMB DL-G2-2  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   -6.164954  -171.342153   -3.323762
-279.464595  -35.728355   -1493.833
 0.25000   -6.164954  -171.333700   -3.323762
-279.446892  -34.509812   -1501.003
 0.50000   -6.164954  -171.325509   -3.323762
-279.429884  -33.965103   -1508.142
 0.75000   -6.164954  -171.317749   -3.323762
-279.414062  -34.201570   -1515.282
 1.00000   -6.164954  -171.310579   -3.323762
-279.399871  -35.134659   -1522.411

 COMB DL-G2-3  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   13.919999   126.550921    6.946655
192.059010   26.354496    2611.587
 0.25000   13.919999   126.556747    6.946655
192.072752   24.128548    2680.054
 0.50000   13.919999   126.563150    6.946655
192.088013   22.314893    2752.817
 0.75000   13.919999   126.569991    6.946655
192.104396   20.813401    2839.160
 1.00000   13.919999   126.577317    6.946655
192.121460   19.555800    2935.315

 COMB DL-G2-3  ------------------- MIN

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000  -11.820552  -190.970969   -4.381879
-376.504163   -75.082554   -1961.563
 0.25000  -11.820552  -190.963362   -4.381879
-376.488231   -75.333038   -1969.154
 0.50000  -11.820552  -190.955989   -4.381879
-376.472923   -76.355143   -1976.718
 0.75000  -11.820552  -190.949006   -4.381879
-376.458683   -78.471030   -1989.387
 1.00000  -11.820552  -190.942553   -4.381879
-376.445911   -81.461011   -2006.414
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1701

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4  ------------------- MAX

 REL DIST            P            V2           V3
        T           M2           M3
 0.00000   18.844454   196.272652    7.464686
275.459164   62.042122    3443.840
 0.25000   18.844454   210.362561    7.464686
284.624196   61.727825    3569.569
```

```
 0.50000    18.844454   225.818616     7.464686
309.707237    62.029924    3675.799
 0.75000    18.844454   242.276712     7.464686
336.747317    62.795285    3763.577
 1.00000    18.844454   259.324014     7.464686
364.418551    63.900184    3830.985

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -16.214118  -350.256341   -7.340888
-410.174217   -73.488486   -2214.885
 0.25000   -16.214118  -331.881773   -7.340888
-386.687769   -73.099187   -2219.710
 0.50000   -16.214118  -313.960087   -7.340888
-363.835785   -73.412236   -2224.520
 0.75000   -16.214118  -296.919115   -7.340888
-342.821695   -74.631917   -2234.409
 1.00000   -16.214118  -281.124656   -7.340888
-342.139278   -76.576453   -2246.249

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    12.255164   143.687261    2.903426
309.739345    68.799600    2009.547
 0.25000    12.255164   161.309382    2.903426
305.570583    71.145779    2108.217
 0.50000    12.255164   180.613530    2.903426
301.179609    74.195606    2173.654
 0.75000    12.255164   201.086988    2.903426
296.788635    77.943137    2204.637
 1.00000    12.255164   222.152031    2.903426
292.397661    82.267609    2201.625

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -11.014080  -280.359073   -6.551747
-107.029539   -19.482756   -893.586908
 0.25000   -11.014080  -257.386385   -6.551747
-107.251850   -18.260145   -890.649167
 0.50000   -11.014080  -234.826856   -6.551747
-107.251850   -17.174918   -887.206094
 0.75000   -11.014080  -213.247047   -6.551747
-107.251850   -16.090452   -884.254947
 1.00000   -11.014080  -193.203543   -6.551747
-107.251850   -15.012476   -881.518231

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    16.862704   218.867409    4.158653
419.831754    94.818875    3224.865
 0.25000    16.862704   239.313064    4.158653
419.345985    98.047136    3349.493
 0.50000    16.862704   261.707962    4.158653
418.860198   102.043953    3440.247
 0.75000    16.862704   285.483647    4.158653
418.374412   106.788304    3510.726
 1.00000    16.862704   309.990023    4.158653
417.888625   112.128949    3550.877

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -14.458800  -404.153885   -8.608170
-212.250374   -27.874408    -1570.006
 0.25000   -14.458800  -377.505896   -8.608170
-212.250374   -26.483418    -1564.574
 0.50000   -14.458800  -351.376841   -8.608170
-212.250374   -25.243617    -1559.163
 0.75000   -14.458800  -326.417060   -8.608170
-212.250374   -24.019224    -1553.362
 1.00000   -14.458800  -303.241486   -8.608170
-212.250374   -22.807075    -1549.522
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                             1702

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    17.641505   232.840850    4.962082
417.143134    84.651807    3813.821
 0.25000    17.641505   251.586211    4.962082
417.227715    86.896320    3953.166
 0.50000    17.641505   272.121488    4.962082
417.312297    89.902665    4067.346
 0.75000    17.641505   293.924167    4.962082
417.396880    93.612258    4158.592
 1.00000    17.641505   316.401302    4.962082
417.481463    98.035500    4223.363

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -15.008857  -429.098684   -8.867598
-303.722328   -40.019172    -2061.471
 0.25000   -15.008857  -404.663064   -8.867598
-303.722328   -37.159666    -2053.150
 0.50000   -15.008857  -380.710980   -8.867598
-303.722328   -36.234155    -2064.844
 0.75000   -15.008857  -357.834259   -8.867598
-303.722328   -35.027475    -2066.481
 1.00000   -15.008857  -336.593941   -8.867598
-303.722328   -34.325507    -2068.153

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    19.912959   220.346783    7.092447
381.131107    75.748896    3736.345
 0.25000    19.912959   235.973909    7.092447
381.219234    76.488068    3869.595
 0.50000    19.912959   253.093207    7.092447
381.307364    78.068353    3981.936
 0.75000    19.912959   271.269166    7.092447
381.395494    80.403422    4075.296
 1.00000    19.912959   290.007537    7.092447
381.483624    83.362677    4147.069

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -17.391599  -392.385524   -8.855796
-359.629816   -68.340612    -2254.008
 0.25000   -17.391599  -372.014716   -8.855796
-359.629816   -67.014665    -2254.108
 0.50000   -17.391599  -352.047178   -8.855796
-359.629816   -66.367545    -2256.869
 0.75000   -17.391599  -332.976229   -8.855796
-359.629816   -66.599528    -2259.584
 1.00000   -17.391599  -315.269486   -8.855796
-359.629816   -67.537015    -2262.323

 COMB       DB -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    13.080646   205.333434    7.124584
422.248134    86.824857    3704.157
 0.25000    13.080646   232.453560    7.124584
422.248134    87.704254    3820.324
 0.50000    13.080646   262.003305    7.124584
422.248134    90.008567    3918.616
 0.75000    13.080646   293.380331    7.124584
422.248134    93.812665    4005.230
 1.00000    13.080646   325.967821    7.124584
422.248134    98.982392    4077.064

 COMB       DB -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -13.495025  -432.822834   -8.312096
-437.025478   -80.748800   -1333.521
 0.25000   -13.495025  -402.634249   -8.312096
-405.037393   -80.968458   -1253.578
 0.50000   -13.495025  -373.228311   -8.312096
-377.241029   -82.610622   -1173.640
 0.75000   -13.495025  -345.192532   -8.312096
-357.148218   -85.740502   -1093.712
 1.00000   -13.495025  -319.146949   -8.312096
-356.577482   -90.165138   -1013.789
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                             1703

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       DL -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    19.912959   232.840850    8.672521
419.831754    94.818875    3813.821
 0.25000    19.912959   251.586211    8.672521
419.345985    98.047136    3953.166
 0.50000    19.912959   272.121488    8.672521
418.860198   102.043953    4067.346
 0.75000    19.912959   293.924167    8.672521
418.374412   106.788304    4158.592
 1.00000    19.912959   316.401302    8.672521
417.888625   112.128949    4223.363

 COMB       DL -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -17.391599  -429.098684   -8.867598
-456.681980   -92.323223    -2254.008
 0.25000   -17.391599  -404.663064   -8.867598
-434.978667   -94.284459    -2254.108
 0.50000   -17.391599  -380.710980   -8.867598
-414.051617   -97.054579    -2256.869
 0.75000   -17.391599  -357.834259   -8.867598
-394.653094  -101.012632    -2259.584
 1.00000   -17.391599  -336.593941   -8.867598
-377.464582  -105.781676    -2262.323

 COMB       CAR -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    19.912959   232.840850    8.672521
422.248134    94.818875    3813.821
 0.25000    19.912959   251.586211    8.672521
422.248134    98.047136    3953.166
 0.50000    19.912959   272.121488    8.672521
422.248134   102.043953    4067.346
 0.75000    19.912959   293.924167    8.672521
422.248134   106.788304    4158.592
 1.00000    19.912959   325.967821    8.672521
422.248134   112.128949    4223.363

 COMB       CAR -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -17.391599  -432.822834   -8.867598
-456.681980   -92.323223    -2254.008
 0.25000   -17.391599  -404.663064   -8.867598
-434.978667   -94.284459    -2254.108
 0.50000   -17.391599  -380.710980   -8.867598
-414.051617   -97.054579    -2256.869
 0.75000   -17.391599  -357.834259   -8.867598
-394.653094  -101.012632    -2259.584
 1.00000   -17.391599  -336.593941   -8.867598
-377.464582  -105.781676    -2262.323

 COMB       DESIGN -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    19.912959   232.840850    8.672521
422.248134    94.818875    3813.821
 0.25000    19.912959   251.586211    8.672521
422.248134    98.047136    3953.166
 0.50000    19.912959   272.121488    8.672521
422.248134   102.043953    4067.346
 0.75000    19.912959   293.924167    8.672521
422.248134   106.788304    4158.592
 1.00000    19.912959   325.967821    8.672521
422.248134   112.128949    4223.363

 COMB       DESIGN -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -17.391599  -432.822834   -8.867598
-456.681980   -92.323223    -2254.008
 0.25000   -17.391599  -404.663064   -8.867598
-434.978667   -94.284459    -2254.108
 0.50000   -17.391599  -380.710980   -8.867598
-414.051617   -97.054579    -2256.869
 0.75000   -17.391599  -357.834259   -8.867598
-394.653094  -101.012632    -2259.584
 1.00000   -17.391599  -336.593941   -8.867598
-377.464582  -105.781676    -2262.323
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                             1704

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      143 ================== LENGTH
=    4.927751

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    5.886849    21.829485    2.716642
42.635098    6.924294   593.320837
 0.25000    5.886849    21.842229    2.716642
42.664860    5.411373   593.649925
 0.50000    5.886849    21.855904    2.716642
42.602395    3.557715   594.008411
 0.75000    5.886849    21.870269    2.716642
42.731911    3.633037   596.669515
 1.00000    5.886849    21.886523    2.716642
42.772749    4.761569   599.285098

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -6.181679   -18.346455   -3.238560
-42.563004   -56.756467  -341.588772
 0.25000   -6.181679   -18.330195   -3.238560
-42.522157   -55.304732  -319.427919
 0.50000   -6.181679   -18.315823   -3.238560
-42.487632   -54.517855  -339.194899
 0.75000   -6.181679   -18.302135   -3.238560
-42.455093   -54.463699  -365.834492
 1.00000   -6.181679   -18.289373   -3.238560
-42.425319   -55.070405  -392.474121

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.439521    42.962718    5.055550
106.751316    8.156367    1259.559
 0.25000    9.439521    42.975467    5.055550
106.781009    6.388862    1258.001
 0.50000    9.439521    42.989127    5.055550
106.813494    4.645191    1258.677
 0.75000    9.439521    43.003487    5.055550
106.847961    3.833853    1263.424
 1.00000    9.439521    43.019732    5.055550
106.888736    4.921568    1270.691

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.899815   -38.690537   -5.915438
-107.129566   -89.813538  -628.481609
 0.25000   -9.899815   -38.674286   -5.915438
-107.088781   -86.896425  -586.192967
 0.50000   -9.899815   -38.659918   -5.915438
-107.054306   -85.413685  -619.018279
 0.75000   -9.899815   -38.646235   -5.915438
-107.021816   -85.540486  -669.416830
 1.00000   -9.899815   -38.633477   -5.915438
-106.992112   -87.086611  -719.815383

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    9.604737    79.353097    5.018294
205.075749   10.428245    2162.787
 0.25000    9.604737    79.364563    5.018294
205.102488    8.210970    2146.674
 0.50000    9.604737    79.376868    5.018294
205.131736    6.187656    2142.974
 0.75000    9.604737    79.389793    5.018294
205.162767    5.724249    2154.269
 1.00000    9.604737    79.404415    5.018294
205.199479    7.789732    2178.458

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -10.074846   -77.250257   -6.080996
-206.257716   -80.820538  -874.212555
 0.25000   -10.074846   -77.235629   -6.080996
-206.220995   -77.447253  -812.695790
 0.50000   -10.074846   -77.222697   -6.080996
-206.189956   -75.738246  -851.818310
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                             1705

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.75000   -10.074846   -77.210381   -6.080996
-206.160704   -75.748004  -924.311397
 1.00000   -10.074846   -77.198898   -6.080996
-206.133955   -77.407901   -996.804486

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   11.173108   157.549980    5.879047
244.592497   40.782386    3088.613
 0.25000   11.173108   169.473197    5.879047
266.691620   38.457296    3490.847
 0.50000   11.173108   182.302816    5.879047
292.869099   36.597460    3090.871
 0.75000   11.173108   195.800587    5.879047
320.600715   36.703455    3099.181
 1.00000   11.173108   210.756905    5.879047
353.550483   39.190717    3105.875

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -11.680714  -210.414431   -6.939979
-354.617868   -71.289891  -988.470837
 0.25000  -11.680714  -195.453083   -6.939979
-321.664328   -68.143602  -916.200739
 0.50000  -11.680714  -181.947918   -6.939979
-293.922143   -67.308261  -953.845177
 0.75000  -11.680714  -169.105435   -6.939979
-267.737351   -68.060368   -1038.220
 1.00000  -11.680714  -157.164034   -6.939979
-245.649849   -70.185585   -1122.598

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    3.256543    30.320871    2.289786
93.050054    1.280274   910.018185
 0.25000    3.256543    30.461016    2.289786
93.376864    1.066978   904.290862
 0.50000    3.256543    30.611401    2.289786
93.734340    0.860098   902.164498
 0.75000    3.256543    30.769377    2.289786
94.113808    0.701445   907.256550
 1.00000    3.256543    30.948097    2.289786
94.562313    1.007991   916.328656

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -3.387694   -31.758968   -2.666189
-95.307079   -27.658363  -341.763521
 0.25000   -3.387694   -31.580185   -2.666189
-94.858273   -26.147162  -317.043168
 0.50000   -3.387694   -31.422128   -2.666189
-94.478909   -25.377872  -330.743778
 0.75000   -3.387694   -31.271599   -2.666189
-94.121382   -25.575987  -359.694918
 1.00000   -3.387694   -31.131250   -2.666189
-93.794453   -26.488635  -388.646083

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    4.621656    94.769245    2.778550
233.788977   14.645484    2213.961
 0.25000    4.621656    94.781986    2.778550
233.818688   13.730704    2176.567
 0.50000    4.621656    94.795657    2.778550
233.851185   13.124879    2162.460
 0.75000    4.621656    94.810018    2.778550
233.885664   13.490057    2182.509
 1.00000    4.621656    94.826266    2.778550
233.926456   14.850289    2226.285

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -4.875260   -97.485758   -3.429100
-235.509508   -24.793902  -679.178112
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                             1706

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.25000   -4.875260   -97.469505   -3.429100
-235.468708   -22.821075  -628.183439
 0.50000   -4.875260   -97.455136   -3.429100
-235.434220   -22.143724  -650.805054
 0.75000   -4.875260   -97.441451   -3.429100
-235.401718   -22.508621  -709.973072
 1.00000   -4.875260   -97.428692   -3.429100
-235.371997   -23.868976  -769.141093

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    8.609884   103.189823    4.743344
249.068766   16.430880    2504.825
 0.25000    8.609884   103.201289    4.743344
249.095505   14.773269    2471.459
 0.50000    8.609884   103.213594    4.743344
249.124753   13.398309    2459.481
 0.75000    8.609884   103.226519    4.743344
249.155784   12.950164    2479.100
 1.00000    8.609884   103.241142    4.743344
249.192496   14.441070    2520.751

 COMB DB-G2-3 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -9.063042  -102.601698   -5.713204
-250.632187   -64.700537   -887.218101
 0.25000   -9.063042  -102.586980   -5.713204
-250.595467   -61.721510   -823.049949
 0.50000   -9.063042  -102.574048   -5.713204
-250.564428   -60.471326   -858.575186
 0.75000   -9.063042  -102.561732   -5.713204
-250.535176   -60.797566   -933.693801
 1.00000   -9.063042  -102.550249   -5.713204
-250.508427   -62.608372   -1008.812

 COMB DB-G2-4 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   11.592811   194.313069    6.335218
263.469653   56.745486    3500.137
 0.25000   11.592811   212.621752    6.335218
269.439829   54.514065    3519.424
 0.50000   11.592811   232.396189    6.335218
294.609584   53.068619    3524.657
 0.75000   11.592811   253.243645    6.335218
318.019458   53.274387    3527.530
 1.00000   11.592811   275.687022    6.335218
339.349934   55.635269    3517.475

 COMB DB-G2-4 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -12.034130  -276.640031   -7.317391
-340.306654   -58.086129    -1002.143
 0.25000  -12.034130  -254.189795   -7.317391
-318.973632   -55.005658    -927.136259
 0.50000  -12.034130  -233.329990   -7.317391
-295.558979   -54.459220   -961.241569
 0.75000  -12.034130  -213.534462   -7.317391
-270.386859   -55.586786   -1048.356
 1.00000  -12.034130  -195.196097   -7.317391
-264.389090   -57.955381   -1135.480

 COMB DB-G3-1 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    7.656183   171.133451    4.225922
192.529284   74.994199    2245.461
 0.25000    7.656183   194.555735    4.225922
192.529284   73.404983    2298.093
 0.50000    7.656183   220.054578    4.225922
192.529284   72.954620    2314.769
 0.75000    7.656183   247.043915    4.225922
192.529284   73.810005    2300.805
 1.00000    7.656183   274.449892    4.225922
192.529284   75.804950    2251.786
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                             1707

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -7.730483  -276.723543   -4.475773
-191.652211   -7.314712  -403.034118
 0.25000   -7.730483  -249.310509   -4.475773
-191.652211   -6.316557  -369.819771
 0.50000   -7.730483  -222.303136   -4.475773
-191.652211   -6.919807  -376.412425
 0.75000   -7.730483  -196.773885   -4.475773
-191.652211   -8.363525  -414.212273
 1.00000   -7.730483  -173.310020   -4.475773
-191.652211   -9.811606  -452.019729

 COMB DB-G3-2 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.005890   249.990580    5.443510
297.476237   99.182768    3563.783
 0.25000   10.005890   277.978963    5.443510
297.476237   97.334314    3600.512
 0.50000   10.005890   308.365348    5.443510
297.476237   96.930905    3608.404
 0.75000   10.005890   340.492946    5.443510
297.476237   98.127864    3605.727
 1.00000   10.005890   373.680452    5.443510
297.476237  100.729744    3575.324

 COMB DB-G3-2 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -10.178624  -377.566542   -5.871556
-297.143481   -11.468069  -706.985048
 0.25000  -10.178624  -344.370449   -5.871556
-297.143481   -10.537466  -649.268199
 0.50000  -10.178624  -312.221816   -5.871556
-297.143481   -11.650813  -663.317591
 0.75000  -10.178624  -281.800326   -5.871556
-297.143481   -13.812579  -728.686771
 1.00000  -10.178624  -253.762731   -5.871556
-297.143481   -15.991766  -794.068046

 COMB DB-G3-3 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   10.696150   254.504637    5.950469
354.343119   87.745630    3736.705
 0.25000   10.696150   280.177065    5.950469
354.343119   85.348178    4103.755
 0.50000   10.696150   308.041367    5.950469
354.343119   84.390506    4110.201
 0.75000   10.696150   337.499122    5.950469
354.343119   85.668599    4111.137
 1.00000   10.696150   367.980988    5.950469
354.343119   88.974892    4092.621

 COMB DB-G3-3 -------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000  -10.955109  -372.974635   -6.693724
-354.813177   -18.943032  -934.835582
 0.25000  -10.955109  -342.484877   -6.693724
-354.813177   -16.667040  -861.204370
 0.50000  -10.955109  -313.007876   -6.693724
-354.813177   -16.955301  -884.263181
 0.75000  -10.955109  -285.111486   -6.693724
-354.813177   -18.666076  -968.806646
 1.00000  -10.955109  -259.393962   -6.693724
-354.813177   -20.986310   -1053.361

 COMB DB-G3-4 -------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000   12.340285   227.366727    6.915390
335.659528   74.564990    3873.820
 0.25000   12.340285   248.770978    6.915390
335.659528   72.168932    3896.649
 0.50000   12.340285   272.002437    6.915390
335.659528   70.979010    3902.612
 0.75000   12.340285   296.562306    6.915390
335.659528   71.639468    3904.727
 1.00000   12.340285   321.977749    6.915390
335.659528   74.351667    3891.232
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.723267	-324.182978	-7.835012
-336.239900	-48.234542	-1013.853	
0.25000	-12.723267	-298.760956	-7.835012
-336.239900	-45.175768	-936.538403	
0.50000	-12.723267	-274.185042	-7.835012
-336.239900	-44.832889	-967.716936	
0.75000	-12.723267	-250.926834	-7.835012
-336.239900	-46.333528	-1057.153	
1.00000	-12.723267	-229.484986	-7.835012
-336.239900	-48.943488	-1146.599	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.206633	39.779353	3.451609
73.478950	8.197688	806.174062	
0.25000	9.206633	39.786192	3.451609
73.493653	6.685594	800.254036	
0.50000	9.206633	39.793651	3.451609
73.510010	5.409307	794.949378	
0.75000	9.206633	39.801574	3.451609
73.527580	4.813219	788.645650	
1.00000	9.206633	39.809792	3.451609
73.545879	4.915653	783.154599	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.844763	-30.958895	-3.714910
-67.351879	-65.512846	-793.780111	
0.25000	-7.844763	-30.950659	-3.714910
-67.333583	-63.854564	-798.076217	
0.50000	-7.844763	-30.942710	-3.714910
-67.316022	-62.718851	-802.377835	
0.75000	-7.844763	-30.935228	-3.714910
-67.299650	-62.121890	-806.675791	
1.00000	-7.844763	-30.928358	-3.714910
-67.284938	-62.032925	-810.971928	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.213899	79.498887	6.074372
146.909110	9.455127	1645.575	
0.25000	14.213899	79.505724	6.074372
146.923784	7.538149	1634.571	
0.50000	14.213899	79.513180	6.074372
146.940112	5.901503	1623.920	
0.75000	14.213899	79.521100	6.074372
146.957650	4.885587	1613.511	
1.00000	14.213899	79.529315	6.074372
146.975916	4.875360	1603.736	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.604522	-64.378603	-6.349598
-138.697200	-105.493315	-1443.651	
0.25000	-12.604522	-64.370370	-6.349598
-138.678937	-102.873993	-1451.587	
0.50000	-12.604522	-64.362424	-6.349598
-138.661409	-101.164810	-1459.518	
0.75000	-12.604522	-64.354946	-6.349598
-138.645066	-100.696719	-1467.458	
1.00000	-12.604522	-64.348078	-6.349598
-138.630383	-101.240401	-1475.374	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.852099	136.911716	6.311180
228.540453	13.309808	2688.060	
0.25000	14.852099	137.108599	6.311180
228.962884	11.053997	2667.328	
0.50000	14.852099	137.323317	6.311180
229.432891	9.265877	2650.479	
0.75000	14.852099	137.551371	6.311180
229.937759	8.462099	2638.270	
1.00000	14.852099	137.787947	6.311180
230.463576	9.040152	2630.205	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.471607	-117.797769	-6.495832
-224.186793	-98.752009	-2011.059	
0.25000	-12.471607	-117.560689	-6.495832
-223.691071	-96.105583	-2022.265	
0.50000	-12.471607	-117.331878	-6.495832
-223.156468	-94.494812	-2033.472	
0.75000	-12.471607	-117.116513	-6.495832
-222.686033	-94.241201	-2044.662	
1.00000	-12.471607	-116.918736	-6.495832
-222.263342	-95.215534	-2055.889	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.668714	208.026918	7.311522
274.773787	13.478039	3478.039	
0.25000	17.668714	217.963063	7.311522
292.942594	45.270172	3476.758	
0.50000	17.668714	228.789139	7.311522
313.343457	43.904858	3464.817	
0.75000	17.668714	240.270402	7.311522
335.305712	43.399085	3444.690	
1.00000	17.668714	252.154804	7.311522
358.108290	44.174428	3414.009	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.740495	-230.569018	-7.347831
-355.349640	-89.315648	-2228.756	
0.25000	-14.740495	-218.657781	-7.347831
-332.578289	-87.239759	-2241.318	
0.50000	-14.740495	-207.140405	-7.347831
-310.605329	-86.450710	-2253.901	
0.75000	-14.740495	-196.277354	-7.347831
-290.212831	-86.818447	-2266.462	
1.00000	-14.740495	-186.294329	-7.347831
-272.010324	-88.220875	-2279.063	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.616731	53.317022	2.685408
93.335723	1.664406	1084.691	
0.25000	4.616731	53.385390	2.685408
93.482470	1.227187	1078.046	
0.50000	4.616731	53.459952	2.685408
93.646741	0.948779	1072.561	
0.75000	4.616731	53.539146	2.685408
93.821122	0.699672	1067.100	
1.00000	4.616731	53.621298	2.685408
94.003782	0.888841	1062.662	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.258398	-46.695336	-2.662601
-92.823082	-34.742212	-763.183517	
0.25000	-4.258398	-46.613008	-2.662601
-92.640456	-33.667574	-767.482729	
0.50000	-4.258398	-46.533552	-2.662601
-92.465167	-33.061262	-771.796596	
0.75000	-4.258398	-46.458765	-2.662601
-92.301746	-33.455722	-776.099909	
1.00000	-4.258398	-46.390086	-2.662601
-92.154908	-34.416660	-780.404543	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.441818	140.375824	3.626446
220.443575	18.054546	2496.710	
0.25000	7.441818	140.382663	3.626446
220.458271	17.257898	2467.884	
0.50000	7.441818	140.390121	3.626446
220.474620	16.761952	2449.444	
0.75000	7.441818	140.398043	3.626446
220.492182	16.811262	2446.095	
1.00000	7.441818	140.406260	3.626446
220.510474	17.504092	2453.135	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.835067	-126.701788	-3.504866
-221.680299	-35.269277	-1522.392	
0.25000	-5.835067	-126.693552	-3.504866
-221.662012	-34.261975	-1531.070	
0.50000	-5.835067	-126.685604	-3.504866
-221.644459	-34.043816	-1539.745	
0.75000	-5.835067	-126.678124	-3.504866
-221.628094	-34.699326	-1548.396	
1.00000	-5.835067	-126.671254	-3.504866
-221.613389	-36.095686	-1557.097	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.382267	159.441125	5.876905
258.881611	19.955420	2935.650	
0.25000	13.382267	159.447280	5.876905
258.894837	18.164801	2904.969	
0.50000	13.382267	159.453992	5.876905
258.909552	16.752717	2883.724	
0.75000	13.382267	159.461122	5.876905
258.925358	16.014893	2876.066	
1.00000	13.382267	159.468518	5.876905
258.941820	16.616947	2878.055	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.181096	-139.898077	-5.905935
-255.033310	-81.351504	-2006.419	
0.25000	-11.181096	-139.890665	-5.905935
-255.812851	-79.183074	-2017.708	
0.50000	-11.181096	-139.883512	-5.905935
-255.797054	-78.070206	-2029.001	
0.75000	-11.181096	-139.876779	-5.905935
-255.782326	-78.187874	-2040.253	
1.00000	-11.181096	-139.870596	-5.905935
-255.769091	-79.577383	-2054.771	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.066550	239.767011	7.638510
275.469067	63.794788	3831.106	
0.25000	18.066550	254.763296	7.638510
283.344242	62.199250	3845.140	
0.50000	18.066550	271.078648	7.638510
306.394809	61.096008	3838.468	
0.75000	18.066550	288.340412	7.638510
331.343230	60.775178	3812.876	
1.00000	18.066550	306.150995	7.638510
357.035037	61.736526	3766.692	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.337689	-284.728159	-7.526588
-356.732862	-75.844356	-2246.249	
0.25000	-15.337689	-266.877054	-7.526588
-331.055220	-74.199993	-2259.047	
0.50000	-15.337689	-249.556815	-7.526588
-306.394809	-73.832412	-2271.826	
0.75000	-15.337689	-233.181928	-7.526588
-283.066438	-74.620041	-2284.644	
1.00000	-15.337689	-218.114155	-7.526588
-275.139917	-76.459667	-2300.142	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.689086	169.074995	4.823892
199.121483	81.426317	2201.294	
0.25000	11.689086	188.004916	4.823892
198.718847	80.770568	2246.621	
0.50000	11.689086	208.559801	4.823892
197.143078	80.721032	2257.957	
0.75000	11.689086	230.198740	4.823892
194.305059	81.399179	2234.061	
1.00000	11.689086	252.378760	4.823892
190.297745	82.673776	2176.101	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.419027	-244.512438	-4.604682
-193.170059	-13.870466	-881.513409	
0.25000	-10.419027	-222.265063	-4.604682
-197.157598	-14.128304	-886.743049	
0.50000	-10.419027	-200.533686	-4.604682
-199.971955	-14.962606	-891.973316	
0.75000	-10.419027	-179.907301	-4.604682
-201.524159	-16.116684	-897.283215	
1.00000	-10.419027	-160.882192	-4.604682
-201.907019	-17.263305	-902.805987	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.126738	262.655613	6.519682
307.507011	111.178865	3550.523	
0.25000	16.126738	284.572722	6.519682
307.507011	110.582374	3580.870	
0.50000	16.126738	308.372952	6.519682
307.488755	110.642820	3582.127	
0.75000	16.126738	333.458791	6.519682
307.018193	111.500975	3558.793	
1.00000	16.126738	359.209179	6.519682
306.532494	112.996197	3506.228	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.674518	-345.367420	-6.164111
-311.935339	-21.398542	-1549.507	
0.25000	-13.674518	-319.539114	-6.164111
-312.421038	-21.912310	-1558.605	
0.50000	-13.674518	-294.350146	-6.164111
-312.888473	-23.306835	-1567.708	
0.75000	-13.674518	-270.467589	-6.164111
-312.903616	-25.041113	-1576.865	
1.00000	-13.674518	-248.443799	-6.164111
-312.903616	-26.790195	-1588.551	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.916624	287.474155	7.260940
352.474401	97.616203	4223.151	
0.25000	16.916624	307.564553	7.260940
352.474401	96.407133	4246.954	
0.50000	16.916624	329.381631	7.260940
352.475232	96.010595	4243.898	
0.75000	16.916624	352.380393	7.260940
352.559487	96.769614	4217.442	
1.00000	16.916624	375.993006	7.260940
352.644054	98.599269	4164.100	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.203269	-357.537707	-6.924919
-357.407512	-33.240366	-2068.130	
0.25000	-14.203269	-333.853826	-6.924919
-357.322944	-32.819769	-2080.140	
0.50000	-14.203269	-310.760831	-6.924919
-357.239206	-33.574118	-2092.153	
0.75000	-14.203269	-288.868488	-6.924919
-357.238895	-35.292625	-2104.247	
1.00000	-14.203269	-268.680557	-6.924919
-357.238895	-37.544064	-2116.302	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.081570	268.910143	8.293245
348.021592	83.102004	4147.038	
0.25000	19.081570	285.658383	8.293245
348.021592	81.554044	4162.890	
0.50000	19.081570	303.846076	8.293245
348.022590	80.714764	4156.439	
0.75000	19.081570	323.018980	8.293245
348.110244	80.956874	4130.464	
1.00000	19.081570	342.703774	8.293245
348.198358	82.362163	4082.279	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.451783	-321.546220	-8.071705
-349.463433	-66.584109	-2262.282	
0.25000	-16.451783	-301.802018	-8.071705
-349.375319	-65.388639	-2273.331	
0.50000	-16.451783	-282.550567	-8.071705
-349.288202	-65.474984	-2286.308	
0.75000	-16.451783	-264.300137	-8.071705
-349.287744	-66.756008	-2300.138	
1.00000	-16.451783	-247.470597	-8.071705
-349.287744	-68.945461	-2324.510	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.340285	254.504637	6.915390
354.343119	99.182768	4076.705	
0.25000	12.340285	280.177065	6.915390
354.343119	97.334314	4103.755	
0.50000	12.340285	308.365348	6.915390
354.343119	96.930905	4110.201	
0.75000	12.340285	340.492946	6.915390
354.343119	98.581764	4111.137	
1.00000	12.340285	373.680452	6.915390
354.343119	100.729744	4092.621	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.723267	-377.566542	-7.835012
-354.813177	-89.813538	-1013.853	
0.25000	-12.723267	-344.370449	-7.835012
-354.813177	-86.896425	-936.538403	
0.50000	-12.723267	-313.007876	-7.835012
-354.813177	-85.861685	-967.716936	
0.75000	-12.723267	-285.111486	-7.835012
-354.813177	-85.540486	-1057.153	
1.00000	-12.723267	-259.393962	-7.835012
-354.813177	-87.086611	-1146.599	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.081570	287.474155	8.293245
352.474401	111.178865	4223.151	
0.25000	19.081570	307.564553	8.293245
352.474401	110.582374	4246.954	
0.50000	19.081570	329.381631	8.293245
352.475232	110.642820	4243.898	
0.75000	19.081570	352.380393	8.293245
352.559487	111.500975	4217.442	
1.00000	19.081570	375.993006	8.293245
358.108290	112.996197	4164.100	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.451783	-357.537707	-8.071705
-357.407512	-105.493315	-2262.282	
0.25000	-16.451783	-333.853826	-8.071705
-357.322944	-102.873993	-2273.331	
0.50000	-16.451783	-310.760831	-8.071705
-357.239206	-101.164810	-2286.308	
0.75000	-16.451783	-288.868488	-8.071705
-357.238895	-100.696719	-2300.138	
1.00000	-16.451783	-268.680557	-8.071705
-357.238895	-101.240401	-2324.510	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.081570	287.474155	8.293245
354.343119	111.178865	4223.151	
0.25000	19.081570	307.564553	8.293245
354.343119	110.582374	4246.954	
0.50000	19.081570	329.381631	8.293245
354.343119	110.642820	4243.898	
0.75000	19.081570	352.380393	8.293245
354.343119	111.500975	4217.442	
1.00000	19.081570	375.993006	8.293245
358.108290	112.996197	4164.100	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.451783	-377.566542	-8.071705
-357.407512	-105.493315	-2262.282	
0.25000	-16.451783	-344.370449	-8.071705
-357.322944	-102.873993	-2273.331	
0.50000	-16.451783	-313.007876	-8.071705
-357.239206	-101.164810	-2286.308	
0.75000	-16.451783	-288.868488	-8.071705
-357.238895	-100.696719	-2300.138	
1.00000	-16.451783	-268.680557	-8.071705
-357.238895	-101.240401	-2324.510	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.081570	287.474155	8.293245
354.343119	111.178865	4223.151	
0.25000	19.081570	307.564553	8.293245
354.343119	110.582374	4246.954	
0.50000	19.081570	329.381631	8.293245
354.343119	110.642820	4243.898	
0.75000	19.081570	352.380393	8.293245
354.343119	111.500975	4217.442	
1.00000	19.081570	375.993006	8.293245
358.108290	112.996197	4164.100	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.451783	-377.566542	-8.071705
-357.407512	-105.493315	-2262.282	
0.25000	-16.451783	-344.370449	-8.071705
-357.322944	-102.873993	-2273.331	
0.50000	-16.451783	-313.007876	-8.071705
-357.239206	-101.164810	-2286.308	
0.75000	-16.451783	-288.868488	-8.071705
-357.238895	-100.696719	-2300.138	
1.00000	-16.451783	-268.680557	-8.071705
-357.238895	-101.240401	-2324.510	

ELEM 144 ========== LENGTH = 4.929075

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.586680	22.244093	1.017610
125.593739	4.679112	599.051799	
0.25000	5.586680	22.257002	1.017610
125.623344	6.345999	579.078680	
0.50000	5.586680	22.270764	1.017610
125.655261	8.096076	559.728411	
0.75000	5.586680	22.285130	1.017610
125.688713	9.877645	540.998377	
1.00000	5.586680	22.301310	1.017610
125.729207	11.698530	522.961931	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.835414	-19.803690	-4.917180
-44.850046	-55.228105	-392.587619	
0.25000	-5.835414	-19.787590	-4.917180
-44.809170	-51.343638	-414.106404	
0.50000	-5.835414	-19.773429	-4.917180
-44.774688	-48.076805	-435.694639	
0.75000	-5.835414	-19.759985	-4.917180
-44.744240	-45.422238	-457.338968	
1.00000	-5.835414	-19.747477	-4.917180
-44.712399	-43.628416	-479.023296	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.951138	53.978449	2.907708
242.618498	5.010214	1270.315	
0.25000	8.951138	53.991353	2.907708
242.648056	6.685090	1226.114	
0.50000	8.951138	54.005111	2.907708
242.679925	8.863047	1185.217	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	8.951138	54.019472	2.907708
242.713330	11.451508	1146.950	
1.00000	8.951138	54.035643	2.907708
242.753728	14.213308	1111.560	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.341811	-37.429084	-8.008551
-74.291277	-87.362495	-719.985328	
0.25000	-9.341811	-37.412992	-8.008551
-74.250464	-81.654879	-763.426846	
0.50000	-9.341811	-37.398837	-8.008551
-74.216032	-77.265259	-806.929663	
0.75000	-9.341811	-37.385306	-8.008551
-74.183633	-74.428168	-850.523439	
1.00000	-9.341811	-37.372894	-8.008551
-74.153841	-73.123758	-894.132743	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.105411	106.881991	3.173970
343.115679	7.415544	2178.096	
0.25000	9.105411	106.893605	3.173970
343.142292	9.385999	2094.307	
0.50000	9.105411	106.905988	3.173970
343.170985	11.737528	2024.083	
0.75000	9.105411	106.918914	3.173970
343.201059	14.519198	1966.911	
1.00000	9.105411	106.933470	3.173970
343.237440	17.602249	1922.663	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.504374	-55.673890	-7.841753
-151.345669	-77.819702	-996.941380	
0.25000	-9.504374	-55.659406	-7.841753
-151.308923	-73.085759	-1063.917	
0.50000	-9.504374	-55.646664	-7.841753
-151.277922	-70.044185	-1130.947	
0.75000	-9.504374	-55.634568	-7.841753
-151.248753	-68.126319	-1198.059	
1.00000	-9.504374	-55.623314	-7.841753
-151.221928	-67.295036	-1265.187	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.560407	197.963640	4.847821
339.504990	38.723356	3105.568	
0.25000	10.560407	210.045385	4.847821
356.857141	39.106716	3025.552	
0.50000	10.560407	222.957595	4.847821
377.055411	40.072523	2946.732	
0.75000	10.560407	236.453089	4.847821
404.856429	41.954016	2872.202	
1.00000	10.560407	251.328467	4.847821
436.842642	44.426565	2796.324	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.988096	-174.966763	-7.790380

```
-341.849975  -70.545373  -1122.651
 0.25000  -10.988096 -160.173804   -7.790380
-308.451688  -67.327445  -1204.855
 0.50000  -10.988096 -146.889570   -7.790380
-279.879846  -65.827186  -1287.108
 0.75000  -10.988096 -134.299639   -7.790380
-254.746580  -65.262174  -1369.428
 1.00000  -10.988096 -122.621526   -7.790380
-232.209463  -65.601680  -1451.762

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.079886   46.887756    2.021174
141.736526   0.985478  916.209484
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    1715

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000    3.079886   47.029712    2.021174
142.061789   1.269347  881.827146
 0.50000    3.079886   47.181059    2.021174
142.412482   1.845852  852.135229
 0.75000    3.079886   47.339047    2.021174
142.780061   2.758287  826.485864
 1.00000    3.079886   47.516953    2.021174
143.224709   3.997511  807.324234

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.193323  -21.515598   -2.879930
-47.874954  -26.635379 -388.684898
 0.25000   -3.193323  -21.338568   -2.879930
-47.425837  -25.146295 -416.586300
 0.50000   -3.193323  -21.182844   -2.879930
-47.046944  -24.338246 -444.487708
 0.75000   -3.193323  -21.034999   -2.879930
-46.690424  -24.431322 -472.389123
 1.00000   -3.193323  -20.897448   -2.879930
-46.362573  -25.511129 -500.290549

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.363504  131.787491    2.765102
281.018397  14.481185  2226.193
 0.25000    4.363504  131.800397    2.765102
281.047967  14.546260  2126.742
 0.50000    4.363504  131.814155    2.765102
281.079848  15.059855  2052.497
 0.75000    4.363504  131.828518    2.765102
281.113264  16.091286  2009.731
 1.00000    4.363504  131.844691    2.765102
281.153687  17.554441  1991.184

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.579523  -64.077346   -3.358033
-180.781770  -24.142130  -769.134668
 0.25000   -4.579523  -64.061253   -3.358033
-180.740941  -23.237225  -828.986150
 0.50000   -4.579523  -64.047096   -3.358033
-180.706496  -23.960784  -888.840911
 0.75000   -4.579523  -64.033656   -3.358033
-180.674085  -25.083542  -948.695680
 1.00000   -4.579523  -64.021151   -3.358033
-180.644281  -26.560186  -1008.550

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.148090  138.576679    3.695820
355.914998  14.018654  2520.486
 0.25000    8.148090  138.588293    3.695820
355.941611  15.012042  2413.332
 0.50000    8.148090  138.600676    3.695820
355.970304  16.418313  2329.374
 0.75000    8.148090  138.613603    3.695820
356.000378  18.256619  2271.661
 1.00000    8.148090  138.628158    3.695820
356.036759  20.490512  2242.502

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -8.534446  -73.596122   -6.691652
-195.904400  -62.980656  -1008.892
 0.25000   -8.534446  -73.581638   -6.691652
-195.867654  -59.168500  -1081.104
 0.50000   -8.534446  -73.568896   -6.691652
-195.836653  -57.686764  -1153.334
 0.75000   -8.534446  -73.556800   -6.691652
-195.807484  -57.163491  -1225.601
 1.00000   -8.534446  -73.545546   -6.691652
-195.780659  -57.558727  -1297.919
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    1716

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.936433  242.248273    6.199382
315.043387  55.059194  3517.357
 0.25000   10.936433  260.809694    6.199382
315.043387  54.015051  3448.750
 0.50000   10.936433  280.712538    6.199382
328.933073  53.739127  3370.966
 0.75000   10.936433  301.549567    6.199382
353.196336  54.632462  3285.654
 1.00000   10.936433  323.844119    6.199382
374.849992  56.382440  3188.110

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.308246 -233.921970   -7.199310
-351.265720  -58.284986  -1135.477
 0.25000  -11.308246 -211.770506   -7.199310
-329.877169  -56.631139  -1223.045
 0.50000  -11.308246 -191.297163   -7.199310
-306.402707  -56.666682  -1310.628
 0.75000  -11.308246 -171.940272   -7.199310
-281.140014  -57.502588  -1398.242
 1.00000  -11.308246 -154.059261   -7.199310
-275.525142  -59.105761  -1485.897

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.185000  199.998095    5.543768
90.010038  75.517433  2252.301
 0.25000    7.185000  223.766517    5.543768
90.010038  71.956069  2263.615
 0.50000    7.185000  249.433735    5.543768
90.010038  69.484709  2243.585
 0.75000    7.185000  276.391910    5.543768
90.010038  68.183440  2188.862
 1.00000    7.185000  303.545536    5.543768
90.010038  67.925588  2099.826

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -7.239465 -247.824364   -2.842590
-296.885927  -9.837618 -451.912058
 0.25000   -7.239465 -220.866690   -2.842590
-296.885927  -11.992163 -494.388935
 0.50000   -7.239465 -194.503229   -2.842590
-296.885927  -14.151483 -536.866662
 0.75000   -7.239465 -169.664459   -2.842590
-296.885927  -16.316112 -579.344397
 1.00000   -7.239465 -146.919104   -2.842590
-296.885927  -18.482811 -621.822335

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    9.381888  298.097266    7.083898
180.773432 100.253129  3575.844
 0.25000    9.381888  326.492018    7.083898
180.773432  95.850606  3540.686
 0.50000    9.381888  357.078086    7.083898
180.773432  92.749397  3483.996
 0.75000    9.381888  389.174920    7.083898
180.773432  91.114618  3410.177
 1.00000    9.381888  422.082320    7.083898
180.773432  90.842662  3310.855

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -9.511288 -329.596035   -3.886534
-414.928097 -16.044361 -793.903983
 0.25000   -9.511288 -296.942707   -3.886534
-414.928097 -19.111347 -866.090030
 0.50000   -9.511288 -265.486022   -3.886534
-414.928097 -22.202415 -938.282007
 0.75000   -9.511288 -235.843944   -3.886534
-414.928097 -25.310516 -1010.480
 1.00000   -9.511288 -208.619276   -3.886534
-414.928097 -28.435936 -1082.679
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    1717

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.052755  313.724639    7.384280
281.060075  88.250649  4093.017
 0.25000   10.052755  339.769141    7.384280
281.060075  84.892030  4029.161
 0.50000   10.052755  367.816463    7.384280
281.060075  82.778072  3950.693
 0.75000   10.052755  397.246598    7.384280
281.060075  82.150039  3860.106
 1.00000   10.052755  427.473516    7.384280
281.060075  82.911470  3751.061

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -10.264227  -313.556491   -4.872783
-422.004143  -21.222286  -1053.227
 0.25000  -10.264227  -283.561150   -4.872783
-422.004143  -22.848450  -1143.709
 0.50000  -10.264227  -254.714994   -4.872783
-422.004143  -25.828116  -1234.193
 0.75000  -10.264227  -227.529304   -4.872783
-422.004143  -29.038183  -1324.678
 1.00000  -10.264227  -202.553224   -4.872783
-422.004143  -32.273082  -1415.163

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   11.625758  281.619993    7.500383
325.467676  73.796596  3891.416
 0.25000   11.625758  303.334437    7.500383
325.467676  71.070757  3821.743
 0.50000   11.625758  326.718483    7.500383
325.467676  69.790702  3740.875
 0.75000   11.625758  351.255344    7.500383
325.467676  69.912762  3650.465
 1.00000   11.625758  376.458291    7.500383
325.467676  71.263877  3545.486

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.944935  -275.147620   -6.924143
-375.353708  -49.244499  -1146.550
 0.25000  -11.944935  -250.137700   -6.924143
-375.353708  -48.892263  -1238.608
 0.50000  -11.944935  -226.087622   -6.924143
-375.353708  -50.152222  -1330.670
 0.75000  -11.944935  -203.421816   -6.924143
-375.353708  -52.098060  -1422.752
 1.00000  -11.944935  -182.598003   -6.924143
-375.353708  -54.692121  -1514.852

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.717486   47.654011    1.525307
160.049829   4.914182  782.808044
 0.25000    8.717486   47.661158    1.525307
160.064005   6.452938  750.449255
 0.50000    8.717486   47.668899    1.525307
160.079827   8.476839  718.184168
 0.75000    8.717486   47.677077    1.525307
160.096843  10.791517  686.246578
 1.00000    8.717486   47.685528    1.525307
160.114559  13.414800  654.395662

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -7.418565  -27.941224   -6.227964
-56.261392  -62.287237 -810.844631
 0.25000   -7.418565  -27.933278   -6.227964
-56.242441  -57.684597 -805.830100
 0.50000   -7.418565  -27.925647   -6.227964
-56.224252  -53.819582 -800.832121
 0.75000   -7.418565  -27.918499   -6.227964
-56.207294  -50.569758 -795.877962
 1.00000   -7.418565  -27.911993   -6.227964
-56.192013  -47.903832 -790.930806
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    1718

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   13.470644  101.983705    3.562066
290.698172   5.177134  1603.149
 0.25000   13.470644  101.990850    3.562066
290.712319   6.546351  1536.727
 0.50000   13.470644  101.998588    3.562066
290.728110   8.779774  1471.569
 0.75000   13.470644  102.006762    3.562066
290.745093  11.724124  1407.375
 1.00000   13.470644  102.015210    3.562066
290.762774  15.358352  1343.576

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.926481  -53.768824   -9.278458
-92.300478 -101.823301  -1475.197
 0.25000  -11.926481  -53.760881   -9.278458
-92.281560  -95.394029  -1470.643
 0.50000  -11.926481  -53.753253   -9.278458
-92.263401  -90.310718  -1466.089
 0.75000  -11.926481  -53.746109   -9.278458
-92.246472  -86.804830  -1461.592
 1.00000  -11.926481  -53.739605   -9.278458
-92.231218  -84.467306  -1457.103

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   14.061627  177.998020    4.179144
379.066412   9.052800  2625.627
 0.25000   14.061627  178.203767    4.179144
379.473634  10.214735  2520.856
 0.50000   14.061627  178.426599    4.179144
379.928177  12.296683  2416.366
 0.75000   14.061627  178.662015    4.179144
380.417034  15.175153  2316.315
 1.00000   14.061627  178.905274    4.179144
380.926014  18.909386  2220.951

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.771746  -88.994248   -8.994079
-156.773681  -95.779755  -2055.735
 0.25000  -11.771746  -88.765539   -8.994079
-156.229070  -90.492415  -2057.312
 0.50000  -11.771746  -88.545869   -8.994079
-155.706323  -86.704627  -2058.891
 0.75000  -11.771746  -88.340134   -8.994079
-155.219011  -84.184459  -2060.529
 1.00000  -11.771746  -88.152843   -8.994079
-154.779847  -82.860663  -2062.145

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   16.686228  261.336329    6.256324
379.178509  43.571162  3413.671
 0.25000   16.686228  271.737513    6.256324
396.365476  43.373142  3306.172
 0.50000   16.686228  282.989600    6.256324
415.757071  44.051789  3188.647
 0.75000   16.686228  294.857291    6.256324
436.682628  45.435983  3062.346
 1.00000   16.686228  307.092907    6.256324
458.403247  47.669660  2926.830

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -13.861010  -188.875561   -8.712981
-332.973716  -88.239637  -2278.988
 0.25000  -13.861010  -177.413501   -8.712981
-309.056713  -84.782411  -2287.829
 0.50000  -13.861010  -166.380290   -8.712981
-286.026158  -82.685206  -2296.700
 0.75000  -13.861010  -156.032420   -8.712981
-264.575354  -81.642578  -2305.608
 1.00000  -13.861010  -146.608486   -8.712981
-245.418343  -81.614083  -2314.488
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    1719

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.379131   72.786771    2.293378
146.686547   1.120643  1062.428
 0.25000    4.379131   72.858217    2.293378
146.828017   1.111947  1019.210
 0.50000    4.379131   72.935597    2.293378
146.985923   1.417505  977.694674
 0.75000    4.379131   73.017346    2.293378
147.155748   2.106106  937.085793
 1.00000    4.379131   73.101820    2.293378
147.332565   3.274535  896.763621

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.027092  -33.117665   -2.773915
-48.500757  -34.738921 -780.371225
 0.25000   -4.027092  -33.038243   -2.773915
-48.311575  -33.448120 -782.978540
 0.50000   -4.027092  -32.961961   -2.773915
-48.129888  -32.212764 -785.673547
 0.75000   -4.027092  -32.890518   -2.773915
-47.960701  -33.364773 -788.165761
 1.00000   -4.027092  -32.825480   -2.773915
-47.808156  -34.487271 -790.766105

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.024181  183.838020    3.579914
278.438337  17.283092  2452.937
 0.25000    7.024181  183.845166    3.579914
278.452506  16.789567  2344.845
 0.50000    7.024181  183.852906    3.579914
278.468321  16.775311  2247.731
 0.75000    7.024181  183.861084    3.579914
278.485328  17.309102  2165.238
 1.00000    7.024181  183.869534    3.579914
278.503036  18.457299  2094.136

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.465243  -91.445309   -3.298570
-163.694381  -36.276167  -1557.087
 0.25000   -5.465243  -91.431564   -3.298570
-163.675438  -35.625056  -1567.312
 0.50000   -5.465243  -91.429733   -3.298570
-163.657257  -35.906109  -1577.535
 0.75000   -5.465243  -91.422587   -3.298570
-163.640306  -37.159821  -1587.774
 1.00000   -5.465243  -91.416081   -3.298570
-163.625032  -39.031186  -1597.982

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.660575  206.754142    4.662466
378.520955  16.497760  2877.606
 0.25000   12.660575  206.760574    4.662466
378.533708  16.648081  2752.458
 0.50000   12.660575  206.767540    4.662466
378.547940  17.514406  2637.427
 0.75000   12.660575  206.774899    4.662466
378.563247  19.121910  2535.722
 1.00000   12.660575  206.782504    4.662466
378.579184  21.598526  2444.227

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -10.532952  -104.916443   -7.273958
-188.442132  -79.994677  -2054.738
 0.25000  -10.532952  -104.909293   -7.273958
-188.425083  -76.227245  -2069.340
 0.50000  -10.532952  -104.902425   -7.273958
-188.408720  -73.696653  -2083.919
 0.75000  -10.532952  -104.895994   -7.273958
-188.393465  -72.694709  -2098.536
 1.00000  -10.532952  -104.890138   -7.273958
-188.379717  -72.932028  -2126.156
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    1720

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   17.043704  299.536516    7.734897
341.416304  60.806171  3766.556
 0.25000   17.043704  315.276706    7.734897
342.447711  59.136696  3666.614
 0.50000   17.043704  332.272695    7.734897
363.448863  58.185005  3546.581
 0.75000   17.043704  350.152814    7.734897
386.300594  58.066994  3407.859
 1.00000   17.043704  368.522582    7.734897
409.819506  58.895384  3249.657

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -14.401656 -235.903356   -7.604352
-362.499949  -76.152172  -2300.192
 0.25000  -14.401656 -218.786452   -7.604352
-334.911389  -74.438035  -2320.833
 0.50000  -14.401656 -202.258541   -7.604352
-307.883253  -73.871982  -2341.479
 0.75000  -14.401656 -186.732136   -7.604352
-282.783729  -74.456596  -2362.166
 1.00000  -14.401656 -172.561284   -7.604352
-273.724137  -75.978213  -2393.673

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   10.979261  201.254452    6.832605
104.520214  81.329994  2176.585
 0.25000   10.979261  221.232423    6.832605
104.520214  77.562457  2166.767
 0.50000   10.979261  242.739038    6.832605
104.520214  74.399002  2122.908
 0.75000   10.979261  265.250942    6.832605
104.520214  71.952394  2044.880
 1.00000   10.979261  288.213909    6.832605
104.262367  70.070345  1933.234

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -9.741294 -213.868781   -2.702247
-293.434399 -16.156142 -902.942900
 0.25000   -9.741294 -192.703303   -2.702247
-297.825753  -18.637576 -916.720347
 0.50000   -9.741294 -172.134754   -2.702247
-302.217107  -21.155457 -930.421128
 0.75000   -9.741294 -152.724704   -2.702247
-306.608461  -23.685828 -944.085675
 1.00000   -9.741294 -134.986997   -2.702247
-310.742051  -26.236096 -958.402847

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   15.140360  317.064690    8.982783
207.299201 111.097385  3506.795
 0.25000   15.140360  340.167410    8.982783
207.299201 106.579418  3444.103
 0.50000   15.140360  365.044552    8.982783
207.299201 102.710576  3351.210
 0.75000   15.140360  391.116824    8.982783
207.299201  99.593158  3234.991
 1.00000   15.140360  417.750732    8.982783
207.299201  97.107658  3090.833

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -12.755097 -295.308146   -3.782565
-421.339308  -25.307524  -1588.720
 0.25000  -12.755097 -270.684166   -3.782565
-421.825137  -28.686613  -1612.893
 0.50000  -12.755097 -246.806290   -3.782565
-422.310966  -32.132517  -1637.535
 0.75000  -12.755097 -224.288742   -3.782565
-422.796794  -35.591611  -1662.622
 1.00000  -12.755097 -203.712423   -3.782565
-423.282605  -39.093572  -1685.700
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
 <              MOVING              LOAD              >
                                    1721

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   15.910023  354.539530    9.387454
299.314897  96.908589  4164.473
 0.25000   15.910023  375.713378    9.387454
299.314897  93.005503  4069.816
 0.50000   15.910023  398.514589    9.387454
299.314897  89.903457  3948.518
 0.75000   15.910023  422.414745    9.387454
299.314897  87.738945  3804.390
 1.00000   15.910023  446.834921    9.387454
299.314897  86.485835  3635.079

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -13.272578 -296.644195   -4.754871
-420.365666  -36.460515  -2116.446
 0.25000  -13.272578 -274.059556   -4.754871
-420.281076  -38.883721  -2139.230
 0.50000  -13.272578 -252.163477   -4.754871
-420.196486  -41.906056  -2161.978
 0.75000  -13.272578 -231.517398   -4.754871
-420.111896  -45.678097  -2184.715
 1.00000  -13.272578 -212.651341   -4.754871
-420.027309  -49.921410  -2207.436

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   17.984131  334.174004    9.334331
357.797543  81.159032  4082.368
 0.25000   17.984131  351.825344    9.334331
357.797543  77.796196  3977.982
 0.50000   17.984131  370.833353    9.334331
357.797543  75.532718  3851.953
 0.75000   17.984131  390.757606    9.334331
357.797543  74.438035  3706.910
 1.00000   17.984131  411.115543    9.334331
357.797543  74.297934  3540.946

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -15.428624 -266.920141   -7.083858
-380.850608  -68.302611  -2324.606
 0.25000  -15.428624 -248.092170   -7.083858
-380.762471  -68.145955  -2347.974
 0.50000  -15.428624 -229.838348   -7.083858
-380.674333  -68.977382  -2371.320
 0.75000  -15.428624 -212.626692   -7.083858
```

```
-380.586195  -71.040120   -2394.654
 1.00000  -15.428624 -196.898961   -7.083858
-380.498060  -74.038859   -2417.991

 COMB       DB ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    11.625758  313.724639     7.500383
355.914998   100.253129    4093.017
 0.25000    11.625758  339.769141     7.500383
356.857141    96.850606    4029.161
 0.50000    11.625758  367.816463     7.500383
377.055411    92.749397    3950.693
 0.75000    11.625758  397.246598     7.500383
404.856429    91.114618    3860.106
 1.00000    11.625758  427.473516     7.500383
436.842642    90.842662    3751.061

 COMB       DB ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -11.944935 -329.596035   -8.008551
-422.004143   -87.362495   -1146.550
 0.25000  -11.944935 -296.942707   -8.008551
-422.004143   -81.654879   -1238.608
 0.50000  -11.944935 -265.486022   -8.008551
-422.004143   -77.265259   -1330.670
 0.75000  -11.944935 -235.843944   -8.008551
-422.004143   -74.428168   -1422.752
 1.00000  -11.944935 -208.619276   -8.008551
-422.004143   -73.123758   -1514.852
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          1722

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB       DL ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    17.984131  354.539530     9.387454
379.178509   111.097385    4164.473
 0.25000    17.984131  375.713378     9.387454
396.365476   106.579418    4069.816
 0.50000    17.984131  398.514589     9.387454
415.757071   102.710576    3948.518
 0.75000    17.984131  422.414745     9.387454
436.682628    99.593158    3804.390
 1.00000    17.984131  446.834921     9.387454
458.403247    97.107658    3635.079

 COMB       DL ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -15.428624 -296.644195   -9.278458
-421.339308  -101.823301   -2324.606
 0.25000  -15.428624 -274.059567   -9.278458
-421.825137   -95.394029   -2347.974
 0.50000  -15.428624 -252.163477   -9.278458
-422.310966   -90.310718   -2371.320
 0.75000  -15.428624 -231.517398   -9.278458
-422.796794   -86.804830   -2394.654
 1.00000  -15.428624 -212.651341   -9.278458
-423.282605   -84.467306   -2417.991

 COMB       CAR ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    17.984131  354.539530     9.387454
379.178509   111.097385    4164.473
 0.25000    17.984131  375.713378     9.387454
396.365476   106.579418    4069.816
 0.50000    17.984131  398.514589     9.387454
415.757071   102.710576    3950.693
 0.75000    17.984131  422.414745     9.387454
436.682628    99.593158    3860.106
 1.00000    17.984131  446.834921     9.387454
458.403247    97.107658    3751.061

 COMB       CAR ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -15.428624 -329.596035   -9.278458
-422.004143  -101.823301   -2324.606
 0.25000  -15.428624 -296.942707   -9.278458
-422.004143   -95.394029   -2347.974
 0.50000  -15.428624 -265.486022   -9.278458
-422.310966   -90.310718   -2371.320
 0.75000  -15.428624 -235.843944   -9.278458
-422.796794   -86.804830   -2394.654
 1.00000  -15.428624 -212.651341   -9.278458
-423.282605   -84.467306   -2417.991

 COMB    DESIGN ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    17.984131  354.539530     9.387454
379.178509   111.097385    4164.473
 0.25000    17.984131  375.713378     9.387454
396.365476   106.579418    4069.816
 0.50000    17.984131  398.514589     9.387454
415.757071   102.710576    3950.693
 0.75000    17.984131  422.414745     9.387454
436.682628    99.593158    3860.106
 1.00000    17.984131  446.834921     9.387454
458.403247    97.107658    3751.061

 COMB    DESIGN ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -15.428624 -329.596035   -9.278458
-422.004143  -101.823301   -2324.606
 0.25000  -15.428624 -296.942707   -9.278458
-422.004143   -95.394029   -2347.974
 0.50000  -15.428624 -265.486022   -9.278458
-422.310966   -90.310718   -2371.320
 0.75000  -15.428624 -235.843944   -9.278458
-422.796794   -86.804830   -2394.654
 1.00000  -15.428624 -212.651341   -9.278458
-423.282605   -84.467306   -2417.991
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          1723

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       145 ================== LENGTH
=     4.927365

 COMB DB-G1-1 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    5.309944   35.184303     0.418043
207.877683   11.742654   522.294568
 0.25000    5.309944   35.197293     0.418043
207.899766   13.746707   484.295464
 0.50000    5.309944   35.210973     0.418043
207.931829   15.835749   446.970326
 0.75000    5.309944   35.225116     0.418043
207.965181   17.964060   410.679534
 1.00000    5.309944   35.240993     0.418043
208.003888   20.135180   375.672623

 COMB DB-G1-1 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -5.503826  -20.387850    -5.814033
-49.337310   -44.089702  -479.001148
 0.25000   -5.503826  -20.371968    -5.814033
-49.296228   -38.709236  -491.261509
 0.50000   -5.503826  -20.357997    -5.814033
-49.261435   -33.929738  -503.612099
 0.75000   -5.503826  -20.344825    -5.814033
-49.228850   -29.830739  -516.036854
 1.00000   -5.503826  -20.332645    -5.814033
-49.198949   -26.484079  -528.461624

 COMB DB-G1-2 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    8.502519   80.797965     1.181712
377.014502   14.067913   1110.447
 0.25000    8.502519   80.810950     1.181712
377.036550   16.979435   1026.615
 0.50000    8.502519   80.824626     1.181712
377.068391   20.070216   945.681421
 0.75000    8.502519   80.838764     1.181712
377.101698   23.377902   869.025255
 1.00000    8.502519   80.854632     1.181712
377.140345   26.958662   796.157507

 COMB DB-G1-2 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -8.808647  -37.939455    -9.314711
-76.501168   -73.926150  -894.112520
 0.25000   -8.808647  -37.923583    -9.314711
-76.460149   -66.092939  -924.479222
 0.50000   -8.808647  -37.909616    -9.314711
-76.425405   -59.531827  -954.886081
 0.75000   -8.808647  -37.896449    -9.314711
-76.392867   -54.391389  -985.456172
 1.00000   -8.808647  -37.884274    -9.314711
-76.363012   -50.764886   -1016.039

 COMB DB-G1-3 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    8.651035  149.213613     1.556662
480.237424   16.881414   1921.483
 0.25000    8.651035  149.225301     1.556662
480.257275   19.660235   1773.280
 0.50000    8.651035  149.237610     1.556662
480.285982   22.614806   1636.015
 0.75000    8.651035  149.250335     1.556662
480.315968   25.843697   1513.467
 1.00000    8.651035  149.264618     1.556662
480.350764   29.407267   1405.880

 COMB DB-G1-3 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -8.962945  -52.423436    -8.950216
-106.924228   -67.772287   -1265.161
 0.25000   -8.962945  -52.409148    -8.950216
-106.887296   -61.549138   -1321.283
 0.50000   -8.962945  -52.396578    -8.950216
-106.856016   -56.262619   -1377.437
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          1724

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST              P              V2             V3
        T              M2             M3
 0.75000   -8.962945  -52.384726    -8.950216
-106.826721   -52.065947   -1433.740
 1.00000   -8.962945  -52.373767    -8.950216
-106.799841   -48.935843   -1490.052

 COMB DB-G1-4 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    9.980530  252.101183     3.921801
451.075656   43.464590   2795.519
 0.25000    9.980530  264.243614     3.921801
457.644567   43.628986   2634.964
 0.50000    9.980530  277.076511     3.921801
475.967926   44.214266   2474.395
 0.75000    9.980530  290.371950     3.921801
494.508969   45.336037   2319.524
 1.00000    9.980530  304.983331     3.921801
526.292323   47.184738   2165.914

 COMB DB-G1-4 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -10.307179  -154.120074   -7.827790
-329.004608   -65.300271  -1413.739
 0.25000  -10.307179  -139.531129   -7.827790
-295.349247   -62.030433   -1529.502
 0.50000  -10.307179  -126.428912   -7.827790
-266.367682   -58.947908   -1607.291
 0.75000  -10.307179  -114.082861   -7.827790
-244.006765   -56.776471   -1685.248
 1.00000  -10.307179  -102.686657   -7.827790
-221.672093   -55.494505   -1763.224

 COMB DB-G2-1 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    2.918927   64.711315     1.069050
189.337297    3.569208   806.888389
 0.25000    2.918927   64.854163     1.069050
189.579921    4.276481   744.320092
 0.50000    2.918927   65.004610     1.069050
189.930785    5.118963   685.495086
 0.75000    2.918927   65.160141     1.069050
190.297280    6.141696   631.256516
 1.00000    2.918927   65.334714     1.069050
190.722565    7.553871   582.936372

 COMB DB-G2-1 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -3.009724  -21.499805    -3.187959
-21.605810   -25.907297   -500.292585
 0.25000   -3.009724  -21.325181    -3.187959
-21.154424   -23.944704   -525.650491
 0.50000   -3.009724  -21.171537    -3.187959
-20.777204   -22.688592   -551.008402
 0.75000   -3.009724  -21.026681    -3.187959
-20.414058   -22.117825   -576.380235
 1.00000   -3.009724  -20.892743    -3.187959
-20.085529   -22.458646   -601.763040

 COMB DB-G2-2 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    4.123805  171.041019     2.061777
330.626101   16.530116   1990.706
 0.25000    4.123805  171.054005     2.061777
330.648158   16.565800   1829.479
 0.50000    4.123805  171.067682     2.061777
330.680054   16.841196   1691.531
 0.75000    4.123805  171.081822     2.061777
330.713372   17.462105   1585.528
 1.00000    4.123805  171.097692     2.061777
330.752034   18.533691   1506.300

 COMB DB-G2-2 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -4.290472  -51.984389    -3.223135
-126.584035   -26.493267   -1008.541
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          1725

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST              P              V2             V3
        T              M2             M3
 0.25000   -4.290472  -51.968514    -3.223135
-126.543000   -26.235362   -1068.674
 0.50000   -4.290472  -51.954546    -3.223135
-126.508243   -26.317984   -1128.807
 0.75000   -4.290472  -51.941378    -3.223135
-126.475694   -26.750682   -1188.952
 1.00000   -4.290472  -51.929201    -3.223135
-126.445828   -27.476397   -1249.108

 COMB DB-G2-3 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    7.722815  185.200032     2.148055
464.503019   19.643636   2241.555
 0.25000    7.722815  185.211719     2.148055
464.522870   21.197532   2062.887
 0.50000    7.722815  185.224029     2.148055
464.551577   22.985211   1905.698
 0.75000    7.722815  185.236754     2.148055
464.581563   25.077626   1778.195
 1.00000    7.722815  185.251037     2.148055
464.616359   27.552450   1676.160

 COMB DB-G2-3 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -8.023430  -63.233990    -7.205586
-149.747842   -57.851640   -1297.900
 0.25000   -8.023430  -63.219703    -7.205586
-149.710911   -53.891310   -1363.865
 0.50000   -8.023430  -63.207132    -7.205586
-149.679630   -50.724901   -1429.830
 0.75000   -8.023430  -63.195280    -7.205586
-149.650335   -48.461229   -1495.834
 1.00000   -8.023430  -63.184322    -7.205586
-149.623456   -47.109565   -1561.930

 COMB DB-G2-4 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   10.307506  301.053190     5.465189
407.878390   55.284244   3187.732
 0.25000   10.307506  319.675940     5.465189
407.878390   53.515631   3032.706
 0.50000   10.307506  339.451341     5.465189
407.878390   52.389345   2867.364
 0.75000   10.307506  359.999948     5.465189
414.240345   52.017559   2695.589
 1.00000   10.307506  381.930175     5.465189
435.006468   52.655540   2514.270

 COMB DB-G2-4 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -10.587924  -206.011633   -6.582968
-365.905169   -59.253026   -1485.890
 0.25000  -10.587924  -184.172171   -6.582968
-344.045043   -57.616993   -1574.009
 0.50000  -10.587924  -163.988924   -6.582968
-320.273014   -56.644930   -1662.128
 0.75000  -10.587924  -144.984634   -6.582968
-294.906995   -56.431147   -1750.329
 1.00000  -10.587924  -127.482931   -6.582968
-293.040354   -56.977226   -1838.644

 COMB DB-G3-1 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    6.706164  230.975890     6.509079
44.527518   67.320751   2100.837
 0.25000    6.706164  254.743251     6.509079
44.527518   61.774527   2070.573
 0.50000    6.706164  280.232977     6.509079
44.527518   57.236858   2009.949
 0.75000    6.706164  306.870128     6.509079
44.527518   53.665539   1915.239
 1.00000    6.706164  333.660817     6.509079
44.527518   51.155919   1786.440
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          1726

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -6.734260  -217.869294   -1.155109
-398.744761   -18.337762   -621.846439
 0.25000   -6.734260  -191.337160   -1.155109
-398.744761   -21.153245   -673.956294
 0.50000   -6.734260  -165.342310   -1.155109
-398.744761   -23.967470   -726.066154
 0.75000   -6.734260  -140.899309   -1.155109
-398.744761   -26.796589   -778.195864
 1.00000   -6.734260  -118.504451   -1.155109
-398.744761   -29.622034   -830.427021

 COMB DB-G3-2 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    8.712065  349.591979     8.336719
147.972629   89.804493   3311.892
 0.25000    8.712065  378.012135     8.336719
147.972629   82.723046   3202.883
 0.50000    8.712065  408.391279     8.336719
147.972629   76.819812   3076.128
 0.75000    8.712065  440.087393     8.336719
147.972629   72.190231   2932.328
 1.00000    8.712065  472.525886     8.336719
147.972629   68.862351   2763.803

 COMB DB-G3-2 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -8.811445  -281.856352   -1.442228
-518.668214   -28.182972   -1082.693
 0.25000   -8.811445  -249.677289   -1.442228
-518.668214   -32.069360   -1168.301
 0.50000   -8.811445  -218.686734   -1.442228
-518.668214   -35.984957   -1253.913
 0.75000   -8.811445  -189.536765   -1.442228
-518.668214   -39.922058   -1339.564
 1.00000   -8.811445  -162.777068   -1.442228
-518.668214   -43.872079   -1425.318

 COMB DB-G3-3 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    9.416146  376.441042     8.072741
284.434902   81.440204   3751.723
 0.25000    9.416146  402.511310     8.072741
284.434902   75.724916   3596.907
 0.50000    9.416146  430.369307     8.072741
284.434902   71.108809   3426.384
 0.75000    9.416146  459.430300     8.072741
284.434902   67.743188   3244.310
 1.00000    9.416146  489.223880     8.072741
284.434902   65.715979   3046.464

 COMB DB-G3-3 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -9.561886  -272.172499   -2.903273
-472.606367   -31.945287   -1415.175
 0.25000   -9.561886  -242.612328   -2.903273
-472.606367   -35.373515   -1516.845
 0.50000   -9.561886  -214.192789   -2.903273
-472.606367   -38.841736   -1618.514
 0.75000   -9.561886  -187.460260   -2.903273
-472.606367   -42.342669   -1720.222
 1.00000   -9.561886  -162.914937   -2.903273
-472.606367   -45.869883   -1822.022

 COMB DB-G3-4 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   10.931854  344.300219     7.174765
378.613869   70.022684   3545.613
 0.25000   10.931854  366.036227     7.174765
378.613869   66.290509   3384.541
 0.50000   10.931854  389.262440     7.174765
378.613869   63.509627   3211.413
 0.75000   10.931854  413.491478     7.174765
378.613869   61.848526   3029.823
 1.00000   10.931854  438.333007     7.174765
378.613869   61.405254   2836.109
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          1727

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -11.166461 -240.811481   -5.736620
-420.567346   -54.721874   -1514.859
 0.25000  -11.166461 -216.164387   -5.736620
-420.567346   -54.910770   -1611.753
 0.50000  -11.166461 -192.469968   -5.736620
-420.567346   -55.653288   -1708.648
 0.75000  -11.166461 -170.182043   -5.736620
-420.567346   -57.041436   -1805.582
 1.00000  -11.166461 -149.717511   -5.736620
-420.567346   -59.043627   -1902.628

 COMB DL-G1-1 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000    8.228432   58.393629     0.611255
262.819236   13.304756   653.539852
 0.25000    8.228432   58.401085     0.611255
262.833249   16.388659   599.132650
 0.50000    8.228432   58.409056     0.611255
262.848607   19.880593   544.755943
 0.75000    8.228432   58.417411     0.611255
262.864891   23.885007   490.838099
 1.00000    8.228432   58.425973     0.611255
262.881667   28.528309   437.000956

 COMB DL-G1-1 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   -7.033243  -28.504829    -7.761303
-86.153562   -48.205418   -790.614250
 0.25000   -7.033243  -28.497215    -7.761303
-86.133931   -42.253316   -772.517343
 0.50000   -7.033243  -28.489979    -7.761303
-86.115363   -36.871456   -754.428095
 0.75000   -7.033243  -28.483281    -7.761303
-86.098277   -32.303855   -736.326413
 1.00000   -7.033243  -28.477227    -7.761303
-86.082971   -28.668190   -718.252612

 COMB DL-G1-2 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   12.684517  129.632247     1.399398
464.979021   15.006146   1342.115
 0.25000   12.684517  129.639700     1.399398
464.993003   18.964495   1226.194
 0.50000   12.684517  129.647670     1.399398
465.008329   23.580413   1111.506
 0.75000   12.684517  129.656020     1.399398
465.024579   29.041263   998.948288
 1.00000   12.684517  129.664579     1.399398
465.041320   35.496744   887.055569

 COMB DL-G1-2 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -11.298390  -52.479360   -11.708665
-124.763789   -84.866701   -1456.673
 0.25000  -11.298390  -52.468380   -11.708665
-124.744190   -75.694496   -1433.789
 0.50000  -11.298390  -52.461147   -11.708665
-124.725650   -67.632882   -1410.911
 0.75000  -11.298390  -52.454452   -11.708665
-124.708591   -61.225559   -1388.025
 1.00000  -11.298390  -52.448400   -11.708665
-124.693309   -56.256683   -1365.165

 COMB DL-G1-3 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   13.160613  227.763264     1.957333
556.930126   18.002015   2219.381
 0.25000   13.160613  227.977909     1.957333
557.332578   21.700174   2029.302
 0.50000   13.160613  228.207418     1.957333
557.773722   26.129668   1841.014
 0.75000   13.160613  228.447880     1.957333
558.241492   31.397350   1657.900
 1.00000   13.160613  228.694361     1.957333
558.723370   37.625695   1479.846
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          1728

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -11.089855  -77.215603   -10.928251
-151.054619   -82.966170   -2061.780
 0.25000  -11.089855  -76.996448   -10.928251
-150.490394   -75.638574   -2048.078
 0.50000  -11.089855  -76.788170   -10.928251
-149.956670   -69.284626   -2034.391
 0.75000  -11.089855  -76.595386   -10.928251
-149.465561   -64.254086   -2020.664
 1.00000  -11.089855  -76.421109   -10.928251
-149.025608   -60.524341   -2006.944

 COMB DL-G1-4 ------------------- MAX

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000   15.547946  326.916783     5.154692
518.412080   46.298114   2925.902
 0.25000   15.547946  337.777883     5.154692
534.647371   46.943859   2716.837
 0.50000   15.547946  349.388317     5.154692
553.182264   48.354922   2494.806
 0.75000   15.547946  361.542174     5.154692
572.924149   50.682222   2265.790
 1.00000   15.547946  373.984257     5.154692
593.241354   53.962993   2027.306

 COMB DL-G1-4 ------------------- MIN

 REL DIST              P              V2             V3
        T              M2             M3
 0.00000  -12.960791  -162.995461   -9.530598
-358.345048   -81.411397   -2314.310
 0.25000  -12.960791  -152.044656   -9.530598
-333.259717   -76.870107   -2316.726
 0.50000  -12.960791  -141.605922   -9.530598
-309.419765   -73.208847   -2319.137
 0.75000  -12.960791  -131.921261   -9.530598
```

```
-287.449761  -70.764457   -2321.456
 1.00000  -12.960791 -123.154692     -9.530598
-267.867474  -69.546640   -2323.856

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.089558   95.246434    0.977262
212.062280   2.898114   896.165169
 0.25000    4.089558   95.320969    0.977262
212.202099   2.495156   817.135104
 0.50000    4.089558   95.400667    0.977262
212.355355   4.344326   739.545498
 0.75000    4.089558   95.484169    0.977262
212.517860   5.490868   664.307525
 1.00000    4.089558   95.569760    0.977262
212.685266   6.942167   589.661166

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.803770  -28.958900   -3.309375
-31.036060  -34.582839  -790.695043
 0.25000   -3.803770  -28.882796   -3.309375
-30.840069  -31.858622  -789.707289
 0.50000   -3.803770  -28.810469   -3.309375
-30.654675  -29.833502  -788.721653
 0.75000   -3.803770  -28.743523   -3.309375
-30.484085  -28.794979  -787.746400
 1.00000   -3.803770  -28.683004   -3.309375
-30.331262  -28.132753  -786.742745

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.474841   235.287441    2.509510
347.007048  17.310958   2093.472
 0.25000    6.474841   235.294897    2.509510
347.021053  17.169808   1908.080
 0.50000    6.474841   235.302869    2.509510
347.036403  17.357976   1730.638
 0.75000    6.474841   235.311221    2.509510
347.052679  17.942894   1568.793
 1.00000    6.474841   235.319782    2.509510
347.069446  18.898349   1418.653
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1729

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.065411  -71.880245   -3.238339
-117.326726  -38.934626   -1597.978
 0.25000   -5.065411  -71.872632   -3.238339
-117.307104  -37.946273   -1608.364
 0.50000   -5.065411  -71.865397   -3.238339
-117.288542  -37.606465   -1618.776
 0.75000   -5.065411  -71.858700   -3.238339
-117.271463  -37.802745   -1629.167
 1.00000   -5.065411  -71.852647   -3.238339
-117.256163  -38.343540   -1639.461

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.802877   264.095593    2.764850
521.863277  20.495558   2442.946
 0.25000   11.802877   264.102303    2.764850
521.875882  22.580850   2228.153
 0.50000   11.802877   264.109477    2.764850
521.889697  25.257901   2020.721
 0.75000   11.802877   264.116994    2.764850
521.904345  28.653865   1827.625
 1.00000   11.802877   264.124700    2.764850
521.919435  32.807920   1645.440

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.881130  -87.537816   -8.479738
-165.726091  -73.060589   -2125.972
 0.25000   -9.881130  -87.530964   -8.479738
-165.708431  -67.816302   -2140.659
 0.50000   -9.881130  -87.524452   -8.479738
-165.691726  -63.840351   -2145.741
 0.75000   -9.881130  -87.518425   -8.479738
-165.676354  -61.941035   -2150.812
 1.00000   -9.881130  -87.512977   -8.479738
-165.662584  -59.040997   -2155.768

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   15.831540   373.543097    7.149947
468.129682  57.389071   3249.262
 0.25000   15.831540   390.000475    7.149947
468.121360  55.730398   3038.039
 0.50000   15.831540   407.586994    7.149947
469.994175  54.805465   2804.558
 0.75000   15.831540   425.974784    7.149947
490.791822  54.852873   2553.162
 1.00000   15.831540   444.756892    7.149947
512.117687  55.949569   2282.515

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.418783  -203.090734   -7.678561
-416.450126  -75.818483   -2393.698
 0.25000  -13.418783  -186.813349   -7.678561
-388.156787  -73.739040   -2422.355
 0.50000  -13.418783  -171.234401   -7.678561
-359.492970  -72.651153   -2443.015
 0.75000  -13.418783  -156.712396   -7.678561
-332.932135  -72.606750   -2463.646
 1.00000  -13.418783  -143.555859   -7.678561
-324.575680  -73.659727   -2484.291

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.149059   242.868168    8.490185
74.344994   69.345784   1934.508
 0.25000   10.149059   263.814193    8.490185
74.344994   63.076051   1866.372
 0.50000   10.149059   286.194047    8.490185
74.344994   57.351834   1765.576
 0.75000   10.149059   309.532310    8.490185
74.344994   52.467205   1629.592
 1.00000   10.149059   333.276665    8.490185
74.344994   48.709025   1459.628
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1730

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.995958  -185.179462   -1.144409
-418.139870  -25.975889  -958.718917
 0.25000   -8.995958  -165.253823   -1.144409
-422.529701  -29.618036  -985.627529
 0.50000   -8.995958  -145.990926   -1.144409
-426.919532  -33.417779   -1012.490
 0.75000   -8.995958  -127.912718   -1.144409
-431.309363  -37.481764   -1039.461
 1.00000   -8.995958  -111.463486   -1.144409
-435.699195  -42.084271   -1066.272

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   13.953314   385.982844   11.182108
179.654328  95.658606   3092.244
 0.25000   13.953314   410.184645   11.182108
179.654328  87.528579   2933.348
 0.50000   13.953314   436.037883   11.182108
179.654328  80.064858   2742.545
 0.75000   13.953314   463.012058   11.182108
179.654328  73.585892   2528.469
 1.00000   13.953314   490.484575   11.182108
179.654328  68.349495   2286.098

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.730292  -250.121061   -1.483027
-542.677038  -38.490660   -1686.120
 0.25000  -11.730292  -226.891610   -1.483027
-543.162698  -43.355432   -1734.128
 0.50000  -11.730292  -204.486839   -1.483027
-543.648359  -48.420102   -1777.028
 0.75000  -11.730292  -183.495117   -1.483027
-544.134019  -53.874853   -1820.003
 1.00000  -11.730292  -164.406910   -1.483027
-544.619679  -59.941966   -1862.694

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   14.677236   437.801785   10.488810
317.239777  84.767183   3635.928
 0.25000   14.677236   459.981027   10.488810
317.239777  78.244650   3420.912
 0.50000   14.677236   483.673238   10.488810
317.239777  72.483840   3177.633
 0.75000   14.677236   508.394318   10.488810
317.239777  67.718249   2911.726
 1.00000   14.677236   533.575091   10.488810
317.239777  64.189619   2620.009

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.241471  -250.454144   -2.822248
-500.620042  -49.524124   -2207.781
 0.25000  -12.241471  -229.142244   -2.822248
-500.535482  -53.013040   -2245.633
 0.50000  -12.241471  -208.592906   -2.822248
-500.450921  -57.157844   -2283.506
 0.75000  -12.241471  -189.343626   -2.822248
-500.366360  -62.110553   -2321.404
 1.00000  -12.241471  -171.841284   -2.822248
-500.281800  -67.794945   -2359.039

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   16.677415   415.200576    9.278955
439.391423  72.750297   3541.096
 0.25000   16.677415   433.689988    9.278955
439.391423  68.596855   3317.056
 0.50000   16.677415   453.440649    9.278955
439.391423  65.332859   3069.779
 0.75000   16.677415   474.049067    9.278955
439.391423  63.194436   2804.151
 1.00000   16.677415   495.040801    9.278955
439.391423  62.423946   2517.468
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1731

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.340562  -228.064817   -6.423885
-459.008918  -73.831433   -2418.158
 0.25000  -14.340562  -210.297663   -6.423885
-458.920811  -73.541022   -2450.765
 0.50000  -14.340562  -193.166434   -6.423885
-458.832704  -74.247698   -2480.204
 0.75000  -14.340562  -177.119150   -6.423885
-458.744597  -76.206340   -2509.679
 1.00000  -14.340562  -162.528259   -6.423885
-458.656490  -79.311797   -2538.928

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.931854   376.441042    8.336719
480.237424  89.604493   3751.723
 0.25000   10.931854   402.511310    8.336719
480.257275  82.723046   3596.907
 0.50000   10.931854   430.369307    8.336719
480.285982  76.819812   3426.384
 0.75000   10.931854   459.430300    8.336719
494.508969  72.190231   3244.310
 1.00000   10.931854   489.223860    8.336719
526.292323  68.862351   3046.464

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.166461  -281.856352   -9.314711
-518.668214  -73.926150   -1514.859
 0.25000  -11.166461  -249.677289   -9.314711
-518.668214  -66.092939   -1611.753
 0.50000  -11.166461  -218.686734   -9.314711
-518.668214  -59.531827   -1708.648
 0.75000  -11.166461  -189.536765   -9.314711
-518.668214  -57.041436   -1805.582
 1.00000  -11.166461  -162.914937   -9.314711
-518.668214  -59.043627   -1902.628

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   16.677415   437.801785   11.182108
556.930126  95.658606   3635.928
 0.25000   16.677415   459.981027   11.182108
557.332578  87.528579   3426.384
 0.50000   16.677415   483.673238   11.182108
557.773722  80.064858   3177.633
 0.75000   16.677415   508.394318   11.182108
572.924149  73.585892   2911.726
 1.00000   16.677415   533.575091   11.182108
593.241354  68.349495   2620.009

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.340562  -250.454144   -11.708665
-542.677038  -84.866701   -2418.158
 0.50000  -14.340562  -229.142244   -11.708665
-543.162698  -76.870107   -2450.765
 0.50000  -14.340562  -208.592906   -11.708665
-543.648359  -74.247698   -2480.204
 0.75000  -14.340562  -189.343626   -11.708665
-544.134019  -76.206340   -2509.679
 1.00000  -14.340562  -171.841284   -11.708665
-544.619679  -79.311797   -2538.928

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   16.677415   437.801785   11.182108
556.930126  95.658606   3751.723
 0.25000   16.677415   459.981027   11.182108
557.332578  87.528579   3596.907
 0.50000   16.677415   483.673238   11.182108
557.773722  80.064858   3426.384
 0.75000   16.677415   508.394318   11.182108
572.924149  73.585892   3244.310
 1.00000   16.677415   533.575091   11.182108
593.241354  68.862351   3046.464
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1732

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.340562  -281.856352   -11.708665
-542.677038  -84.866701   -2418.158
 0.25000  -14.340562  -249.677289   -11.708665
-543.162698  -76.870107   -2450.765
 0.50000  -14.340562  -218.686734   -11.708665
-543.648359  -74.247698   -2480.204
 0.75000  -14.340562  -189.536765   -11.708665
-544.134019  -76.206340   -2509.679
 1.00000  -14.340562  -171.841284   -11.708665
-544.619679  -79.311797   -2538.928

 COMB      DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   16.677415   437.801785   11.182108
556.930126  95.658606   3751.723
 0.25000   16.677415   459.981027   11.182108
557.332578  87.528579   3596.907
 0.50000   16.677415   483.673238   11.182108
557.773722  80.064858   3426.384
 0.75000   16.677415   508.394318   11.182108
572.924149  73.585892   3244.310
 1.00000   16.677415   533.575091   11.182108
593.241354  68.862351   3046.464

 COMB      DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -14.340562  -281.856352   -11.708665
-542.677038  -84.866701   -2418.158
 0.25000  -14.340562  -249.677289   -11.708665
-543.162698  -76.870107   -2450.765
 0.50000  -14.340562  -218.686734   -11.708665
-543.648359  -74.247698   -2480.204
 0.75000  -14.340562  -189.536765   -11.708665
-544.134019  -76.206340   -2509.679
 1.00000  -14.340562  -171.841284   -11.708665
-544.619679  -79.311797   -2538.928

 ELEM      146 ================== LENGTH
=    4.928948

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.043378   42.488264    0.554773
263.687874  20.378483   374.592496
 0.25000    5.043378   42.511162    0.554773
263.709236  21.935892   328.204009
 0.50000    5.043378   42.514738    0.554773
263.739138  23.601190   283.335727
 0.75000    5.043378   42.528766    0.554773
263.772978  25.334429   240.721671
 1.00000    5.043378   42.544403    0.554773
263.811887  27.142483   200.772559

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.179952  -20.046349   -5.337107
-76.980151  -27.058206  -528.230618
 0.25000   -5.179952  -20.030887   -5.337107
-76.939177  -22.261603  -525.251635
 0.50000   -5.179952  -20.017306   -5.337107
-76.904246  -18.154316  -522.608236
 0.75000   -5.179952  -20.004469   -5.337107
-76.870985  -14.787444  -520.053205
 1.00000   -5.179952  -19.992662   -5.337107
-76.839741  -12.218941  -517.686520

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.071952   98.472650    0.455824
472.818958  26.867720   794.283533
 0.25000    8.071952   98.485544    0.455824
472.840287  29.808030   687.529496
 0.50000    8.071952   98.499115    0.455824
472.869950  32.827124   586.489665
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1733

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000    8.071952   98.513139    0.455824
472.903744  36.495843   491.926245
 1.00000    8.071952   98.528772    0.455824
472.942596  40.311392   404.774103

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.288852  -37.185200   -9.542630
-113.816014  -51.782604   -1015.714
 0.25000   -8.288852  -37.169747   -9.542630
-113.775101  -43.010645   -1022.813
 0.50000   -8.288852  -37.156170   -9.542630
-113.740217  -35.091499   -1030.383
 0.75000   -8.288852  -37.143338   -9.542630
-113.707002  -28.735732   -1038.046
 1.00000   -8.288852  -37.131535   -9.542630
-113.675804  -23.253418   -1046.077

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.217112   182.238226    0.532581
585.939026  28.562170   1403.862
 0.25000    8.217112   182.249832    0.532581
585.958230  31.356183   1212.770
 0.50000    8.217112   182.262047    0.532581
585.984980  34.382480   1034.774
 0.75000    8.217112   182.274669    0.532581
586.015405  37.750012   874.404839
 1.00000    8.217112   182.288741    0.532581
586.050385  41.510152   734.241530

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.437247  -52.086344   -9.203756
-109.713889  -49.372707   -1489.746
 0.25000   -8.437247  -52.072435   -9.203756
-109.677053  -41.911449   -1524.402
 0.50000   -8.437247  -52.060215   -9.203756
-109.645647  -35.332839   -1559.485
 0.75000   -8.437247  -52.048665   -9.203756
-109.615744  -29.725451   -1594.644
 1.00000   -8.437247  -52.038041   -9.203756
-109.587655  -25.076478   -1630.089

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.415210   302.393359    3.442292
544.950915  46.011324   2164.470
 0.25000    9.415210   314.506463    3.442292
544.950915  45.245062   1937.364
 0.50000    9.415210   327.278446    3.442292
562.163888  44.826150   1711.225
 0.75000    9.415210   340.485526    3.442292
580.187359  44.847057   1493.190
 1.00000    9.415210   354.897612    3.442292
609.623870  45.430220   1282.510

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.633934  -132.326089   -7.833163
-333.039105  -55.636067   -1763.055
 0.25000   -9.633934  -118.100251   -7.833163
-299.058511  -50.819603   -1830.696
 0.50000   -9.633934  -105.351487   -7.833163
-275.098721  -46.760744   -1898.713
 0.75000   -9.633934   -93.323614   -7.833163
-252.896748  -43.516973   -1966.846
 1.00000   -9.633934   -82.270863   -7.833163
-231.327577  -41.081232   -2035.286

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    2.765700   79.304545    0.186598
228.618341   6.855400   582.157666
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1734

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000    2.765700   79.446388    0.186598
228.853048   7.822553   500.555464
 0.50000    2.765700   79.595687    0.186598
229.179998   8.956699   423.960242
 0.75000    2.765700   79.749961    0.186598
229.551860  10.374133   353.060287
 1.00000    2.765700   79.921942    0.186598
229.979387  12.282705   290.029455

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -2.832337  -21.258366   -4.003006
-31.745830  -22.965744  -601.689612
 0.25000   -2.832337  -21.088356   -4.003006
-31.295612  -19.290319  -620.944689
 0.50000   -2.832337  -20.939003   -4.003006
-30.911762  -16.052224  -639.560532
 0.75000   -2.832337  -20.797839   -4.003006
-30.546274  -13.224919  -658.554017
 1.00000   -2.832337  -20.667989   -4.003006
-30.202966  -10.584210  -677.590758

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.893272   207.466237    1.211550
383.574653  17.080375   1505.363
 0.25000    3.893272   207.479131    1.211550
383.595990  16.881151   1295.378
 0.50000    3.893272   207.492704    1.211550
383.625712  16.887215   1108.851
 0.75000    3.893272   207.506729    1.211550
383.659518  17.257024   956.338605
 1.00000    3.893272   207.522364    1.211550
383.698384  18.029105   836.081657

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.006496  -44.127952   -3.946725
-91.005709  -27.157967   -1249.554
 0.25000   -4.006496  -44.111737   -3.946725
-90.964780  -25.140931   -1305.604
 0.50000   -4.006496  -44.098159   -3.946725
-90.929884  -23.387641   -1362.183
 0.75000   -4.006496  -44.085326   -3.946725
-90.896658  -21.765443   -1419.787
 1.00000   -4.006496  -44.073522   -3.946725
-90.865448  -20.507752   -1475.431

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.314713   224.872833    1.255637
556.782774  26.506284   1674.451
 0.25000    7.314713   224.884438    1.255637
556.801977  28.282647   1443.149
 0.50000    7.314713   224.896654    1.255637
556.828727  30.241127   1234.683
 0.75000    7.314713   224.909276    1.255637
556.859153  32.509398   1059.072
 1.00000    7.314713   224.923347    1.255637
556.894132  35.115242   914.710108

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.523048  -55.911638   -7.828108
-136.000132  -47.264460   -1561.722
 0.25000   -7.523048  -55.897728   -7.828108
-135.963296  -41.537978   -1613.085
 0.50000   -7.523048  -55.885508   -7.828108
-135.931890  -36.454070   -1664.564
 0.75000   -7.523048  -55.873958   -7.828108
-135.901986  -32.052776   -1716.351
 1.00000   -7.523048  -55.863334   -7.828108
-135.873898  -28.294258   -1768.165
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      1735

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.691274   360.407060    5.123664
496.814478  51.267176   2513.483
 0.25000    9.691274   379.102677    5.123664
496.814478  48.772351   2278.983
 0.50000    9.691274   398.861761    5.123664
496.815752  46.773633   2034.967
 0.75000    9.691274   419.313840    5.123664
496.815752  45.380163   1787.023
 1.00000    9.691274   440.982563    5.123664
504.537133  44.868150   1534.419

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.872136  -173.991087   -6.634233
-386.293473  -56.892705   -1838.606
 0.25000   -9.872136  -152.647368   -6.634233
-364.060960  -53.883009   -1925.492
 0.50000   -9.872136  -132.982532   -6.634233
-339.109339  -51.405795   -2012.469
 0.75000   -9.872136  -114.475247   -6.634233
```

```
-322.213487  -49.495994   -2099.821
 1.00000    -9.872136   -97.489563    -6.634233
-322.213487  -48.128120   -2187.315

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000    6.228185   273.588084    7.056666
 77.285102   50.358179    1787.949
 0.25000    6.228185   297.746763    7.056666
 77.285102   43.617499    1700.299
 0.50000    6.228185   323.411580    7.056666
 77.285102   37.651062    1580.782
 0.75000    6.228185   350.024091    7.056666
 77.285102   32.600615    1426.584
 1.00000    6.228185   376.593723    7.056666
 77.285102   28.440909    1238.233

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -6.222540  -175.601967   -0.246647
-468.784608  -29.305878   -830.676228
 0.25000   -6.222540  -149.547888   -0.246647
-468.784608  -32.165682   -901.975302
 0.50000   -6.222540  -124.154837   -0.246647
-468.784608  -35.026522   -973.274437
 0.75000   -6.222540  -100.369234   -0.246647
-468.784608  -37.888203   -1044.845
 1.00000   -6.222540   -78.627779   -0.246647
-468.784608  -40.750245   -1116.546

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000    8.024700   414.754903    9.508886
189.208117   67.516627    2765.283
 0.25000    8.024700   443.539114    9.508886
189.208117   58.370034    2567.559
 0.50000    8.024700   474.058740    9.508886
189.208117   49.994581    2349.767
 0.75000    8.024700   505.691208    9.508886
189.208117   42.668487    2115.374
 1.00000    8.024700   537.825283    9.508886
189.208117   36.436067    1858.686

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -8.097739  -224.470261   -0.516337
-573.161626  -43.297564   -1425.616
 0.25000   -8.097739  -192.916528   -0.516337
-573.161626  -47.153420   -1535.636
 0.50000   -8.097739  -162.666310   -0.516337
-573.161626  -51.038475   -1645.690
 0.75000   -8.097739  -134.294147   -0.516337
-573.161626  -54.944969   -1756.026
 1.00000   -8.097739  -108.307523   -0.516337
-573.161626  -58.867850   -1866.531
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<               MOVING          LOAD            >
                                1736

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000    8.782868   449.214849    8.027006
348.669779   63.751671    3047.293
 0.25000    8.782868   475.609483    8.027006
348.669779   56.447137    2794.960
 0.50000    8.782868   503.589990    8.027006
348.669779   49.936947    2525.416
 0.75000    8.782868   532.589445    8.027006
348.669779   44.538624    2245.095
 1.00000    8.782868   562.100057    8.027006
348.669779   40.319410    1953.175

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -8.855604  -222.005500   -2.405227
-510.297677  -45.097206   -1822.249
 0.25000   -8.855604  -193.023909   -2.405227
-510.297677  -47.599944   -1942.363
 0.50000   -8.855604  -165.285407   -2.405227
-510.297677  -50.201483   -2062.502
 0.75000   -8.855604  -139.265607   -2.405227
-510.297677  -52.869726   -2182.895
 1.00000   -8.855604  -115.430248   -2.405227
-510.297677  -55.596467   -2303.445

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   10.247478   411.957747    6.862749
468.700040   59.776986    2836.084
 0.25000   10.247478   433.963875    6.862749
468.700040   55.251132    2584.196
 0.50000   10.247478   457.292019    6.862749
468.700040   51.441494    2320.189
 0.75000   10.247478   481.469645    6.862749
468.700040   48.656309    2049.597
 1.00000   10.247478   506.075144    6.862749
468.700040   46.948753    1771.526

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -10.389794  -198.887400   -5.658312
-462.669202  -58.786293   -1902.709
 0.25000   -10.389794  -174.722860   -5.658312
-462.669202  -57.346741   -2006.601
 0.50000   -10.389794  -151.536316   -5.658312
-462.669202  -56.320320   -2110.513
 0.75000   -10.389794  -129.902600   -5.658312
-462.669202  -55.706205   -2214.794
 1.00000   -10.389794  -110.030027   -5.658312
-462.669202  -55.465113   -2319.292

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000    7.814193    59.980341    0.719772
335.685443   28.453210   435.602568
 0.25000    7.814193    59.988043    0.719772
335.685443   31.719516   370.162195
 0.50000    7.814193    59.996274    0.719772
335.714011   35.488565   308.394847
 0.75000    7.814193    60.004882    0.719772
335.730203   39.816172   270.395272
 1.00000    7.814193    60.013734    0.719772
335.747139   44.864207   240.432269

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -6.717455   -32.625039   -7.011850
-148.484669  -28.946692   -717.612986
 0.25000   -6.717455   -32.617902   -7.011850
-148.465333  -24.211379   -680.348528
 0.50000   -6.717455   -32.611224   -7.011850
-148.446872  -20.177953   -647.682810
 0.75000   -6.717455   -32.604986   -7.011850
-148.429618  -17.033736   -643.134337
 1.00000   -6.717455   -32.599353   -7.011850
-148.413946  -14.888806   -648.147686
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<               MOVING          LOAD            >
                                1737

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   11.988568   139.534147    0.709347
596.486283   34.996637   884.654006
 0.25000   11.988568   139.541846    0.709347
596.499788   40.727215   739.834270
 0.50000   11.988568   139.550075    0.709347
596.514789   47.660835   606.960371
 0.75000   11.988568   139.558680    0.709347
596.530946   55.951756   521.378242
 1.00000   11.988568   139.567530    0.709347
596.547846   65.729229   453.861184

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -10.779945   -56.368325  -13.461984
-214.726720  -56.590281   -1364.287
 0.25000  -10.779945   -56.361242  -13.461984
-214.707413  -46.362320   -1311.776
 0.50000  -10.779945   -56.354517  -13.461984
-214.688980  -37.704851   -1273.010
 0.75000  -10.779945   -56.348282  -13.461984
-214.671751  -31.025708   -1289.277
 1.00000  -10.779945   -56.342651  -13.461984
-214.656103  -26.218536   -1326.239

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   12.328197   262.673200    0.900297
702.895085   36.337823    1477.202
 0.25000   12.328197   262.894929    0.900297
703.283795   41.509352    1225.706
 0.50000   12.328197   263.131898    0.900297
703.715602   47.718412    1010.055
 0.75000   12.328197   263.379714    0.900297
704.180652   54.994687   865.2052544
 1.00000   12.328197   263.634557    0.900297
704.667130   63.603203   756.497211

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -10.503968   -78.288794   -12.548720
-207.929132  -60.324476   -2006.167
 0.25000  -10.503968   -78.084828   -12.548720
-207.373307  -51.329855   -1963.983
 0.50000  -10.503968   -77.891178   -12.548720
-206.842618  -43.613295   -1963.466
 0.75000  -10.503968   -77.711673   -12.548720
-206.346622  -37.349546   -2047.003
 1.00000  -10.503968   -77.549489   -12.548720
-205.896126  -32.678301   -2168.533

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   14.457286   388.471367    5.215983
657.836988   52.809671    2025.670
 0.25000   14.457286   399.765063    5.215983
669.595578   53.524296    1729.369
 0.50000   14.457286   411.817375    5.215983
687.616873   55.418981    1480.201
 0.75000   14.457286   424.395835    5.215983
707.132367   58.462701    1295.032
 1.00000   14.457286   437.307245    5.215983
727.541107   63.010058    1141.210

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -12.135453   -147.689838   -10.702374
-423.296896  -69.634782   -2323.442
 0.25000  -12.135453   -137.523198   -10.702374
-398.351960  -64.073881   -2313.516
 0.50000  -12.135453   -127.855101   -10.702374
-374.393732  -59.741725   -2391.087
 0.75000  -12.135453   -118.883192   -10.702374
-352.060971  -56.854809   -2553.790
 1.00000  -12.135453   -110.781338   -10.702374
-331.825399  -55.647456   -2765.875
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<               MOVING          LOAD            >
                                1738

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000    3.799757   111.012226    0.281795
273.543243    6.240263   588.646715
 0.25000    3.799757   111.089220    0.281795
273.678290    7.713817   483.120404
 0.50000    3.799757   111.171507    0.281795
273.828304    9.810949   392.062746
 0.75000    3.799757   111.257561    0.281795
273.989866   12.983455   329.958960
 1.00000    3.799757   111.346056    0.281795
274.158872   17.003411   282.741175

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -3.607479   -28.358267   -5.985348
-53.520015  -28.087270   -786.569846
 0.25000   -3.607479   -28.287436   -5.985348
-53.326947  -22.338364   -776.353871
 0.50000   -3.607479   -28.220188   -5.985348
-53.142611  -17.447895   -782.453318
 0.75000   -3.607479   -28.157836   -5.985348
-52.970326  -14.079312   -821.457015
 1.00000   -3.607479   -28.101532   -5.985348
-52.813845  -11.643305   -878.706055

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000    5.917406   284.142699    2.059025
424.961571   17.417340    1417.441
 0.25000    5.917406   284.150400    2.059025
424.975399   17.457848    1163.829
 0.50000    5.917406   284.158630    2.059025
424.990123   18.131831   963.200448
 0.75000    5.917406   284.167238    2.059025
425.006306   19.458499   830.269692
 1.00000    5.917406   284.176089    2.059025
425.023234   21.591634   740.766240

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -4.688205   -63.743904   -5.479041
-104.209321  -37.845297   -1639.389
 0.25000   -4.688205   -63.736818   -5.479041
-104.189992  -34.209283   -1643.662
 0.50000   -4.688205   -63.730091   -5.479041
-104.171538  -31.279437   -1706.797
 0.75000   -4.688205   -63.723854   -5.479041
-104.154290  -29.075263   -1837.054
 1.00000   -4.688205   -63.718221   -5.479041
-104.138624  -27.620804   -2006.539

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   10.985351   310.138792    2.118250
651.853572   31.457853    1643.246
 0.25000   10.985351   310.145723    2.118250
651.865747   34.903170    1356.485
 0.50000   10.985351   310.153131    2.118250
651.879269   39.207349   1120.578
 0.75000   10.985351   310.160877    2.118250
651.893834   44.498895   966.268047
 1.00000   10.985351   310.168844    2.118250
651.909069   51.007726   856.522713

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -9.302031   -81.930180   -11.132150
-198.338580  -58.979973   -2155.271
 0.25000   -9.302031   -81.923803   -11.132150
-198.321184  -51.358555   -2137.276
 0.50000   -9.302031   -81.917748   -11.132150
-198.304576  -45.026719   -2175.305
 0.75000   -9.302031   -81.912134   -11.132150
-198.289053  -39.949759   -2293.554
 1.00000   -9.302031   -81.907065   -11.132150
-198.274953  -36.230098   -2453.822
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<               MOVING          LOAD            >
                                1739

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   14.626241   450.693988    7.274479
608.348745   54.916325    2281.763
 0.25000   14.626241   467.981327    7.274479
608.348848   53.412300    1970.541
 0.50000   14.626241   486.388098    7.274479
608.392672   53.131535    1707.881
 0.75000   14.626241   505.545555    7.274479
618.147257   54.026118   1499.777
 1.00000   14.626241   525.144389    7.274479
639.270731   56.473417    1316.966

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -12.480621   -177.796309   -9.453431
-496.098333  -73.898044   -2484.216
 0.25000  -12.480621   -162.754377   -9.453431
-467.973149  -70.227537   -2512.219
 0.50000  -12.480621   -148.397839   -9.453431
-439.075877  -67.665568   -2631.511
 0.75000  -12.480621   -135.077255   -9.453431
-416.361091  -66.395984   -2838.987
 1.00000  -12.480621   -123.031639   -9.453431
-409.572028  -66.680841   -3100.751

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000    9.267816   307.117759    9.208401
136.840288   48.953786    1461.731
 0.25000    9.267816   329.552978    9.208401
136.840288   41.774187    1331.936
 0.50000    9.267816   353.338981    9.208401
136.840288   35.144334    1219.039
 0.75000    9.267816   377.970658    9.208401
136.840288   29.482387    1097.059
 1.00000    9.267816   403.006495    9.208401
136.840288   25.181984   967.085247

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -8.218254   -151.369416   -0.397713
-536.318877  -42.820490   -1066.920
 0.25000   -8.218254   -133.097310   -0.397713
-540.710118  -46.921104   -1142.331
 0.50000   -8.218254   -115.572407   -0.397713
-545.101359  -51.342213   -1284.232
 0.75000   -8.218254   -99.264052   -0.397713
-549.492600  -56.232941   -1459.188
 1.00000   -8.218254   -84.551535   -0.397713
-553.883842  -61.927891   -1663.823

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   12.700241   483.268338   13.106082
259.420312   57.849456    2288.352
 0.25000   12.700241   509.076997   13.106082
259.420312   57.849456    2027.794
 0.50000   12.700241   536.455774   13.106082
259.420312   48.289073    1819.229
 0.75000   12.700241   564.843723   13.106082
259.420312   39.950674    1633.459
 1.00000   12.700241   593.742327   13.106082
259.420312   33.323171    1461.627

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -10.661483   -203.903445   -0.714094
-653.483594  -60.720041   -1863.546
 0.25000  -10.661483   -182.551597   -0.714094
-653.969410  -66.247655   -1963.573
 0.50000  -10.661483   -162.107544   -0.714094
-654.455227  -72.270279   -2174.625
 0.75000  -10.661483   -143.093943   -0.714094
-654.941043  -79.034168   -2442.267
 1.00000  -10.661483   -125.921174   -0.714094
-655.426859  -86.961660   -2758.343
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<               MOVING          LOAD            >
                                1740

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   13.378957   543.889041   11.061011
431.545927   63.222757    2621.303
 0.25000   13.378957   567.527586   11.061011
431.545927   55.164389    2287.629
 0.50000   13.378957   592.606402   11.061011
431.545927   47.954966    2015.527
 0.75000   13.378957   618.613160   11.061011
431.545927   42.007660    1787.600
 1.00000   13.378957   645.091187   11.061011
431.545927   37.812332    1585.825

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -11.184327   -208.644477   -3.202342
-599.245425  -68.413424   -2359.733
 0.25000  -11.184327   -189.053405   -3.202342
-599.160837  -70.663544   -2443.131
 0.50000  -11.184327   -170.292440   -3.202342
-599.076249  -73.684271   -2645.987
 0.75000  -11.184327   -152.848287   -3.202342
-598.991661  -77.795152   -2934.642
 1.00000  -11.184327   -137.092113   -3.202342
-598.907073  -83.226399   -3285.710

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   15.345561   507.269977    9.443651
585.345613   61.469087    2517.632
 0.25000   15.345561   526.975474    9.443651
585.345613   57.470729    2183.362
 0.50000   15.345561   547.881680    9.443651
585.345613   54.624430    1904.416
 0.75000   15.345561   569.561553    9.443651
585.345613   53.280007    1680.342
 1.00000   15.345561   591.634459    9.443651
585.345613   53.926544    1484.098

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -13.275611   -193.876825   -8.319952
-571.755031  -79.954543   -2539.216
 0.25000  -13.275611   -177.541619   -8.319952
-571.666895  -77.591060   -2594.572
 0.50000  -13.275611   -161.903560   -8.319952
-571.578760  -76.460729   -2753.668
 0.75000  -13.275611   -147.360839   -8.319952
-571.490625  -76.842959   -3003.763
 1.00000  -13.275611   -134.225311   -8.319952
-571.402489  -78.933504   -3309.913

 COMB      DB ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   10.247478   449.214849    9.508886
585.939026   67.516627    3047.293
 0.25000   10.247478   475.609483    9.508886
585.958230   58.370034    2794.960
 0.50000   10.247478   503.589990    9.508886
585.984980   51.441494    2525.416
 0.75000   10.247478   532.589445    9.508886
586.015405   48.656309    2245.095
 1.00000   10.247478   562.100057    9.508886
609.623870   46.948753    1953.175

 COMB      DB ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -10.389794   -224.470261   -9.542630
-573.161626  -57.786293    -1902.709
 0.25000  -10.389794   -193.023909   -9.542630
-573.161626  -57.346741    -2006.601
 0.50000  -10.389794   -165.285407   -9.542630
-573.161626  -56.320320    -2110.513
 0.75000  -10.389794   -139.265607   -9.542630
-573.161626  -55.706205    -2214.794
 1.00000  -10.389794   -115.430248   -9.542630
-573.161626  -58.867850    -2319.292
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<               MOVING          LOAD            >
                                1741

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      DL ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   15.345561   543.889041   13.106082
702.895085   68.185153    2621.303
 0.25000   15.345561   567.527586   13.106082
703.283795   57.849456    2287.629
 0.50000   15.345561   592.606402   13.106082
703.715602   55.418981    2015.527
 0.75000   15.345561   618.613160   13.106082
707.132367   58.462701    1787.600
 1.00000   15.345561   645.091187   13.106082
727.541107   65.729229    1585.825

 COMB      DL ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -13.275611   -208.644477   -13.461984
-653.483594  -79.954543    -2539.216
 0.25000  -13.275611   -189.050405   -13.461984
-653.969410  -77.591060    -2594.572
 0.50000  -13.275611   -170.292440   -13.461984
-654.455227  -76.460729    -2753.668
 0.75000  -13.275611   -152.848287   -13.461984
-654.941043  -79.034168    -3003.763
 1.00000  -13.275611   -137.092113   -13.461984
-655.426859  -86.961660    -3309.913

 COMB      CAR ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   15.345561   543.889041   13.106082
702.895085   68.185153    3047.293
 0.25000   15.345561   567.527586   13.106082
703.283795   58.370034    2794.960
 0.50000   15.345561   592.606402   13.106082
703.715602   55.418981    2525.416
 0.75000   15.345561   618.613160   13.106082
707.132367   58.462701    2245.095
 1.00000   15.345561   645.091187   13.106082
727.541107   65.729229    1953.175

 COMB      CAR ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -13.275611   -224.470261   -13.461984
-653.483594  -79.954543    -2539.216
 0.25000  -13.275611   -193.023909   -13.461984
-653.969410  -77.591060    -2594.572
 0.50000  -13.275611   -170.292440   -13.461984
-654.455227  -76.460729    -2753.668
 0.75000  -13.275611   -152.848287   -13.461984
-654.941043  -79.034168    -3003.763
 1.00000  -13.275611   -137.092113   -13.461984
-655.426859  -86.961660    -3309.913

 COMB DESIGN ------------------- MAX

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000   15.345561   543.889041   13.106082
702.895085   68.185153    3047.293
 0.25000   15.345561   567.527586   13.106082
703.283795   58.370034    2794.960
 0.50000   15.345561   592.606402   13.106082
703.715602   55.418981    2525.416
 0.75000   15.345561   618.613160   13.106082
707.132367   58.462701    2245.095
 1.00000   15.345561   645.091187   13.106082
727.541107   65.729229    1953.175

 COMB DESIGN ------------------- MIN

 REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -13.275611   -224.470261   -13.461984
-653.483594  -79.954543    -2539.216
 0.25000  -13.275611   -193.023909   -13.461984
-653.969410  -77.591060    -2594.572
 0.50000  -13.275611   -170.292440   -13.461984
-654.455227  -76.460729    -2753.668
 0.75000  -13.275611   -152.848287   -13.461984
-654.941043  -79.034168    -3003.763
 1.00000  -13.275611   -137.092113   -13.461984
-655.426859  -86.961660    -3309.913
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<               MOVING          LOAD            >
                                1742

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      147 ================== LENGTH
=    4.927537

 COMB DB-G1-1 ------------------- MAX
```

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	4.780708	40.306098	1.662958	
277.877380	27.608431	199.675347		
0.25000	4.780708	40.319020	1.662958	
277.894730	27.793614	161.065714		
0.50000	4.780708	40.332494	1.662958	
277.928725	28.169393	125.943705		
0.75000	4.780708	40.346305	1.662958	
277.962998	28.677922	113.058738		
1.00000	4.780708	40.361682	1.662958	
278.002822	29.265035	135.909195		

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-4.860260	-24.813620	-3.818269	
-147.684177	-12.710408	-517.174661		
0.25000	-4.860260	-24.798605	-3.818269	
-147.642350	-10.131068	-492.618753		
0.50000	-4.860260	-24.785768	-3.818269	
-147.605893	-8.443278	-468.569822		
0.75000	-4.860260	-24.773724	-3.818269	
-147.571040	-7.684670	-444.948080		
1.00000	-4.860260	-24.762793	-3.818269	
-147.539583	-7.751237	-421.820544		

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.644205	96.965331	0.998868	
496.491647	40.355561	402.848552		
0.25000	7.644205	96.978250	0.998868	
496.508453	42.887853	309.564302		
0.50000	7.644205	96.991719	0.998868	
496.541955	46.617635	227.630042		
0.75000	7.644205	97.005526	0.998868	
496.576634	51.177063	221.944438		
1.00000	7.644205	97.020896	0.998868	
496.616402	56.225119	264.073528		

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-7.776665	-41.327785	-9.245451	
-231.640913	-24.153334	-1045.307		
0.25000	-7.776665	-41.312779	-9.245451	
-231.599143	-15.117179	-1016.194		
0.50000	-7.776665	-41.299948	-9.245451	
-231.562729	-10.378641	-988.552574		
0.75000	-7.776665	-41.287908	-9.245451	
-231.527919	-10.417590	-960.848247		
1.00000	-7.776665	-41.276981	-9.245451	
-231.496499	-10.917381	-934.124503		

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.786677	190.742534	0.969643	
619.086566	40.729066	731.984386		
0.25000	7.786677	190.754162	0.969643	
619.101813	43.073347	546.896056		
0.50000	7.786677	190.766285	0.969643	
619.131974	46.056849	383.666284		
0.75000	7.786677	190.778713	0.969643	
619.163195	49.750218	329.774298		
1.00000	7.786677	190.792547	0.969643	
619.199000	54.146676	392.019392		

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-7.920191	-56.158976	-8.932815	
-248.377350	-25.195557	-1629.336		
0.25000	-7.920191	-56.145468	-8.932815	
-248.339744	-17.829261	-1626.689		
0.50000	-7.920191	-56.133918	-8.932815	
-248.306963	-13.005789	-1625.183		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1743

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000	-7.920191	-56.123082	-8.932815	
-248.275624	-12.078034	-1624.137		
1.00000	-7.920191	-56.113247	-8.932815	
-248.247337	-11.527919	-1623.707		

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.855273	336.655039	4.458529	
604.595436	44.286612	1280.826		
0.25000	8.855273	348.835358	4.458529	
604.595436	42.298468	1023.185		
0.50000	8.855273	361.559302	4.458529	
606.048597	41.678107	774.788889		
0.75000	8.855273	374.614481	4.458529	
627.520637	43.379907	612.651354		
1.00000	8.855273	388.828525	4.458529	
657.607894	47.140028	551.959839		

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-8.971837	-113.053536	-7.650319	
-423.090818	-40.937083	-2034.878		
0.25000	-8.971837	-99.392939	-7.650319	
-392.855125	-35.641361	-2083.360		
0.50000	-8.971837	-87.401808	-7.650319	
-370.221233	-32.576081	-2132.780		
0.75000	-8.971837	-76.172129	-7.650319	
-346.435899	-32.779273	-2182.583		
1.00000	-8.971837	-66.274325	-7.650319	
-340.361046	-33.834173	-2232.959		

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	2.614797	82.964291	0.278127	
239.115033	11.414047	289.174640		
0.25000	2.614797	83.106409	0.278127	
239.301394	13.463501	211.988589		
0.50000	2.614797	83.254583	0.278127	
239.670030	16.133859	143.578288		
0.75000	2.614797	83.408471	0.278127	
240.051620	19.706742	136.122667		
1.00000	2.614797	83.575562	0.278127	
240.489227	24.108088	159.646486		

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-2.658823	-20.754880	-5.478558	
-79.784788	-11.099721	-677.369375		
0.25000	-2.658823	-20.589786	-5.478558	
-79.325160	-4.805567	-682.566252		
0.50000	-2.658823	-20.448627	-5.478558	
-78.924494	-2.522407	-688.263022		
0.75000	-2.658823	-20.316177	-5.478558	
-78.541465	-2.781234	-694.127104		
1.00000	-2.658823	-20.195971	-5.478558	
-78.195742	-3.051520	-700.284204		

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	3.666423	227.816879	1.981211	
412.704209	16.309033	834.818486		
0.25000	3.666423	227.829799	1.981211	
412.721151	16.634931	611.896709		
0.50000	3.666423	227.843269	1.981211	
412.754663	18.641850	420.514960		
0.75000	3.666423	227.857077	1.981211	
412.789353	21.970190	334.932821		
1.00000	3.666423	227.872449	1.981211	
412.829136	26.009226	357.053138		

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-3.728507	-41.399694	-5.175774	
-144.700423	-19.899019	-1475.242		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1744

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000	-3.728507	-41.384224	-5.175774	
-144.658639	-16.014884	-1518.665		
0.50000	-3.728507	-41.371391	-5.175774	
-144.622215	-14.391233	-1562.509		
0.75000	-3.728507	-41.359350	-5.175774	
-144.587394	-13.786451	-1606.433		
1.00000	-3.728507	-41.348423	-5.175774	
-144.555964	-13.989108	-1650.574		

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	6.910628	241.773178	2.054977	
594.065795	34.023601	912.692342		
0.25000	6.910628	241.784806	2.054977	
594.081043	35.523475	676.311249		
0.50000	6.910628	241.796929	2.054977	
594.111204	38.474203	472.049562		
0.75000	6.910628	241.809356	2.054977	
594.142425	42.554515	395.581111		
1.00000	6.910628	241.823191	2.054977	
594.178229	47.247588	434.186968		

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-7.031348	-54.915240	-8.414429	
-239.516262	-28.111362	-1767.620		
0.25000	-7.031348	-54.901732	-8.414429	
-239.478656	-20.789248	-1790.178		
0.50000	-7.031348	-54.890183	-8.414429	
-239.445874	-17.616834	-1813.436		
0.75000	-7.031348	-54.879346	-8.414429	
-239.414535	-17.255675	-1837.197		
1.00000	-7.031348	-54.869511	-8.414429	
-239.386249	-17.636871	-1861.410		

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	9.082143	411.391640	5.780125	
578.122463	43.478517	1533.396		
0.25000	9.082143	430.282742	5.780125	
578.122463	40.309806	1244.992		
0.50000	9.082143	450.068181	5.780125	
578.122463	38.428168	955.127136		
0.75000	9.082143	470.394323	5.780125	
578.122463	37.914370	741.847339		
1.00000	9.082143	491.859576	5.780125	
578.122463	40.967788	616.207011		

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.168439	-135.589198	-7.182673	
-470.030408	-47.644268	-2187.208		
0.25000	-9.168439	-115.422345	-7.182673	
-444.749371	-42.561780	-2269.459		
0.50000	-9.168439	-97.048007	-7.182673	
-419.047510	-40.939800	-2352.305		
0.75000	-9.168439	-79.882977	-7.182673	
-419.047510	-41.656894	-2435.718		
1.00000	-9.168439	-66.015343	-7.182673	
-419.047510	-42.884627	-2519.616		

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.757349	337.599597	6.887469	
177.239876	27.767122	1239.309		
0.25000	5.757349	362.243228	6.887469	
177.239876	20.878359	1065.759		
0.50000	5.757349	388.195835	6.887469	
177.239876	15.011973	860.475393		
0.75000	5.757349	414.919900	6.887469	
177.239876	10.259139	622.576021		
1.00000	5.757349	441.483928	6.887469	
177.239876	6.917445	392.309128		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1745

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.718855	-111.408296	-0.566598	
-478.229512	-40.253181	-1117.189		
0.25000	-5.718855	-87.435204	-0.566598	
-478.229512	-41.779789	-1224.368		
0.50000	-5.718855	-64.015811	-0.566598	
-478.229512	-43.362781	-1331.854		
0.75000	-5.718855	-42.255873	-0.566598	
-478.229512	-45.042475	-1439.613		
1.00000	-5.718855	-27.879925	-0.566598	
-478.229512	-46.723095	-1547.541		

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.406392	500.318606	10.577721	
313.161243	35.047659	1860.039		
0.25000	7.406392	529.599275	10.577721	
313.161243	24.391517	1550.184		
0.50000	7.406392	560.373681	10.577721	
313.161243	17.375233	1224.123		
0.75000	7.406392	592.043504	10.577721	
313.161243	11.766846	888.308565		
1.00000	7.406392	624.082178	10.577721	
313.161243	7.921625	605.550877		

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-7.395716	-149.952589	-0.621102	
-568.535628	-57.966432	-1867.288		
0.25000	-7.395716	-120.834183	-0.621102	
-568.535628	-60.000570	-2018.905		
0.50000	-7.395716	-92.828883	-0.621102	
-568.535628	-62.445265	-2170.791		
0.75000	-7.395716	-66.772853	-0.621102	
-568.535628	-65.893173	-2323.092		
1.00000	-7.395716	-48.410263	-0.621102	
-568.535628	-70.168315	-2475.397		

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.158558	531.409285	8.593717	
468.311545	38.202924	1953.744		
0.25000	8.158558	558.251629	8.593717	
468.311545	30.515242	1601.459		
0.50000	8.158558	586.457604	8.593717	
468.311545	24.656602	1238.481		
0.75000	8.158558	615.482461	8.593717	
468.311545	20.654422	914.637888		
1.00000	8.158558	644.897374	8.593717	
468.311545	18.664313	685.357199		

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-8.161669	-154.915963	-3.063580	
-555.517603	-54.382766	-2303.990		
0.25000	-8.161669	-128.163271	-3.063580	
-555.517603	-54.861848	-2452.440		
0.50000	-8.161669	-102.473615	-3.063580	
-555.517603	-55.638458	-2601.240		
0.75000	-8.161669	-78.572904	-3.063580	
-555.517603	-56.628565	-2750.431		
1.00000	-8.161669	-61.616154	-3.063580	
-555.517603	-58.305819	-2899.793		

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	9.572201	479.760781	7.362144	
577.210653	45.254802	1771.263		
0.25000	9.572201	502.139929	7.362144	
577.210653	40.707917	1441.766		
0.50000	9.572201	525.655782	7.362144	
577.210653	37.995971	1107.994		
0.75000	9.572201	549.854292	7.362144	
577.210653	37.030974	845.263995		
1.00000	9.572201	574.379731	7.362144	
577.210653	37.930515	670.538267		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1746

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.626276	-143.090187	-6.660325	
-544.751475	-54.805197	-2319.474		
0.25000	-9.626276	-120.783822	-6.660325	
-544.751475	-50.362100	-2433.195		
0.50000	-9.626276	-99.365145	-6.660325	
-544.751475	-49.733606	-2547.571		
0.75000	-9.626276	-79.438029	-6.660325	
-544.751475	-50.735135	-2662.613		
1.00000	-9.626276	-65.296650	-6.660325	
-544.751475	-52.308982	-2777.977		

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.639518	56.848877	1.722956	
353.195413	45.643488	239.287680		
0.25000	7.639518	56.857029	1.722956	
353.209608	47.599001	214.445734		
0.50000	7.639518	56.865672	1.722956	
353.225266	50.006578	197.338968		
0.75000	7.639518	56.874651	1.722956	
353.242050	52.864313	192.336117		
1.00000	7.639518	56.883831	1.722956	
353.259593	56.035905	204.218273		

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.580599	-50.375872	-4.615828	
-238.302023	-15.785399	-647.595683		
0.25000	-6.580599	-50.369272	-4.615828	
-238.282749	-14.146256	-629.647668		
0.50000	-6.580599	-50.363058	-4.615828	
-238.264405	-13.195999	-619.466325		
0.75000	-6.580599	-50.357363	-4.615828	
-238.247368	-13.016900	-621.002711		
1.00000	-6.580599	-50.352296	-4.615828	
-238.231937	-13.430287	-631.124112		

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	11.758819	131.708863	1.528430	
627.714300	67.167122	451.915193		
0.25000	11.758819	131.717013	1.528430	
627.728464	74.808124	393.239307		
0.50000	11.758819	131.725654	1.528430	
627.744089	85.033609	353.888643		
0.75000	11.758819	131.734631	1.528430	
627.760839	97.160092	348.923677		
1.00000	11.758819	131.743809	1.528430	
627.778348	110.132732	373.958993		

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-10.636220	-81.080155	-12.978218	
-364.260658	-27.551123	-1325.661		
0.25000	-10.636220	-81.073540	-12.978218	
-364.241413	-21.080522	-1330.277		
0.50000	-10.636220	-81.067330	-12.978218	
-364.223097	-17.350975	-1355.860		
0.75000	-10.636220	-81.061637	-12.978218	
-364.206084	-17.763073	-1394.069		
1.00000	-10.636220	-81.056574	-12.978218	
-364.190676	-17.323971	-1470.548		

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	11.976479	269.031948	1.674836	
755.670876	63.281946	754.275285		
0.25000	11.976479	269.266657	1.674836	
756.078569	70.127085	636.669098		
0.50000	11.976479	269.515519	1.674836	
756.528351	78.700997	554.434189		
0.75000	11.976479	269.774050	1.674836	
757.010431	89.011117	521.851997		
1.00000	11.976479	270.038352	1.674836	
757.514496	100.487115	556.305431		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1747

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-10.281067	-101.146855	-12.572003	
-376.527207	-32.006284	-1168.157		
0.25000	-10.281067	-100.956938	-12.572003	
-378.073147	-26.348983	-2267.613		
0.50000	-10.281067	-100.778107	-12.572003	
-377.545827	-21.925563	-2403.845		
0.75000	-10.281067	-100.614196	-12.572003	
-377.056050	-20.094243	-2578.596		
1.00000	-10.281067	-100.468396	-12.572003	
-376.612464	-19.635676	-2786.435		

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	13.793210	436.966781	6.090333	
739.060760	62.792099	1139.487		
0.25000	13.793210	449.037764	6.090333	
747.145210	64.881380	986.214189		
0.50000	13.793210	461.783598	6.090333	
766.135631	69.397496	863.396584		
0.75000	13.793210	475.014138	6.090333	
786.617447	76.692730	788.013001		
1.00000	13.793210	488.529131	6.090333	
808.052471	86.413866	774.087365		

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.618959	-150.144661	-10.781411	
-555.949432	-56.215791	-2765.336		
0.25000	-11.618959	-140.781937	-10.781411	
-530.989903	-52.716765	-2992.885		
0.50000	-11.618959	-131.949686	-10.781411	
-507.184205	-51.689302	-3269.783		
0.75000	-11.618959	-123.851640	-10.781411	
-485.043273	-53.744758	-3597.262		
1.00000	-11.618959	-116.657204	-10.781411	
-465.025624	-58.027923	-3974.750		

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	3.706431	108.823058	0.430529	
291.777624	16.613537	281.944376		
0.25000	3.706431	108.904558	0.430529	
291.919261	22.455162	234.051595		
0.50000	3.706431	108.990973	0.430529	
292.075517	29.902508	202.124877		
0.75000	3.706431	109.080745	0.430529	
292.243018	38.996825	195.622334		
1.00000	3.706431	109.172523	0.430529	
292.418101	48.839075	210.900311		

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-3.571389	-33.151831	-8.542556	
-113.608430	-11.843901	-871.819956		
0.25000	-3.571389	-33.085877	-8.542556	
-113.415976	-6.885724	-929.992196		
0.50000	-3.571389	-33.023774	-8.542556	
-113.232811	-4.153514	-996.894748		
0.75000	-3.571389	-32.966852	-8.542556	
-113.062688	-4.483435	-1078.792		
1.00000	-3.571389	-32.916189	-8.542556	
-112.908608	-4.901072	-1173.917		

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	5.576584	308.494929	2.719173	
472.015931	20.244753	739.609502		
0.25000	5.576584	308.503080	2.719173	
472.030118	23.194887	601.663466		
0.50000	5.576584	308.511723	2.719173	
472.045768	28.409644	504.989584		
0.75000	5.576584	308.520702	2.719173	
472.062544	35.666913	464.357172		
1.00000	5.576584	308.529881	2.719173	
472.080078	43.857084	491.055638		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1748

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-4.451334	-64.185644	-8.013255	
-177.319225	-26.973666	-2006.733		
0.25000	-4.451334	-64.179046	-8.013255	
-177.299958	-23.313323	-2041.973		
0.50000	-4.451334	-64.172833	-8.013255	
-177.281622	-21.799517	-2405.932		
0.75000	-4.451334	-64.167138	-8.013255	
-177.264591	-22.551909	-2660.074		
1.00000	-4.451334	-64.162072	-8.013255	
-177.249166	-24.321621	-2948.982		

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	10.579320	328.884437	2.877864	
707.021395	50.434563	854.577839		
0.25000	10.579320	328.891773	2.877864	
707.734163	56.590266	707.363278		
0.50000	10.579320	328.899552	2.877864	
707.748248	65.221677	604.828969		
0.75000	10.579320	328.907633	2.877864	
707.763346	76.407010	566.955320		
1.00000	10.579320	328.915894	2.877864	
707.779127	89.124477	601.581237		

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.024994	-94.911179	-12.691446	
-333.661718	-36.430780	-2453.554		
0.25000	-9.024994	-94.905240	-12.691446	
-333.644377	-30.094271	-2604.141		
0.50000	-9.024994	-94.899649	-12.691446	
-333.627874	-26.662244	-2794.354		
0.75000	-9.024994	-94.894523	-12.691446	
-333.612546	-27.079730	-3014.069		
1.00000	-9.024994	-94.889964	-12.691446	
-333.598664	-29.154484	-3291.351		

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	13.808802	525.682197	7.381537	
717.623105	56.202009	1315.763		
0.25000	13.808802	544.384400	7.381537	
717.629472	57.126875	1144.537		
0.50000	13.808802	564.094396	7.381537	
718.009853	60.535865	999.886526		
0.75000	13.808802	584.504570	7.381537	
720.272681	66.893017	899.090592		
1.00000	13.808802	605.298727	7.381537	
741.886813	76.170450	854.658324		

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.824251	-164.512763	-10.800307	
-614.649026	-67.211367	-3100.090		
0.25000	-11.824251	-150.887229	-10.800307	
-585.724037	-63.950623	-3402.464		
0.50000	-11.824251	-138.017446	-10.800307	
-556.388500	-63.398086	-3758.856		
0.75000	-11.824251	-126.203103	-10.800307	
-545.559322	-66.681015	-4170.354		
1.00000	-11.824251	-115.726657	-10.800307	
-539.741637	-72.099079	-4639.578		

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.423692	412.123415	8.034154	
265.213433	25.551359	967.946757		
0.25000	8.423692	436.923947	8.034154	
265.213433	19.253354	865.209904		
0.50000	8.423692	463.006080	8.034154	
265.213433	13.830088	757.184593		
0.75000	8.423692	489.893981	8.034154	
265.213433	9.965477	647.401020		
1.00000	8.423692	517.156940	8.034154	
265.213433	7.626533	542.615283		

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.463007	-109.478879	-0.739121
-575.034916	-62.725457	-1662.970	
0.25000	-7.463007	-93.544728	-0.739121
-579.424901	-65.616056	-1954.954	
0.50000	-7.463007	-78.409351	-0.739121
-583.814885	-69.190370	-2280.975	
0.75000	-7.463007	-64.501187	-0.739121
-588.204869	-73.820333	-2644.216	
1.00000	-7.463007	-52.227510	-0.739121
-592.594768	-79.341525	-3051.294	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.543912	623.298955	12.817821
413.873837	33.410826	1462.329	
0.25000	11.543912	651.676825	12.817821
413.873837	24.346919	1275.609	
0.50000	11.543912	681.538099	12.817821
413.873837	17.346911	1102.078	
0.75000	11.543912	712.353875	12.817821
413.873837	13.144738	957.246744	
1.00000	11.543912	743.634214	12.817821
413.873837	10.731756	844.736062	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.631382	-152.119244	-1.060713
-681.147800	-87.769744	-2757.421	
0.25000	-9.631382	-133.318987	-1.060713
-681.633477	-92.735841	-3185.189	
0.50000	-9.631382	-115.508988	-1.060713
-682.119155	-99.348605	-3666.811	
0.75000	-9.631382	-99.131748	-1.060713
-682.604832	-108.216265	-4204.769	
1.00000	-9.631382	-84.664248	-1.060713
-683.090500	-118.975914	-4808.333	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.233559	672.055171	10.616199
592.368161	37.013582	1585.875	
0.25000	12.233559	698.029467	10.616199
592.368161	30.865982	1371.590	
0.50000	12.233559	725.365683	10.616199
592.368161	27.238222	1183.988	
0.75000	12.233559	753.576973	10.616199
592.368161	26.482553	1036.899	
1.00000	12.233559	782.217605	10.616199
592.368161	27.955235	948.936858	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.207044	-164.749736	-4.931644
-678.290867	-83.720433	-3285.058	
0.25000	-10.207044	-147.478783	-4.931644
-678.206303	-84.637822	-3735.977	
0.50000	-10.207044	-131.119119	-4.931644
-678.121739	-87.865943	-4250.671	
0.75000	-10.207044	-116.076094	-4.931644
-678.037176	-93.349053	-4831.702	
1.00000	-10.207044	-102.784691	-4.931644
-677.952614	-100.877751	-5484.810	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.329791	610.019471	9.177264
730.462506	53.619692	1483.417	
0.25000	14.329791	631.671512	9.177264
730.462506	53.093764	1282.264	
0.50000	14.329791	654.458889	9.177264
730.462506	55.623288	1110.930	
0.75000	14.329791	677.976561	9.177264
730.462506	61.779422	989.061907	
1.00000	14.329791	701.851568	9.177264
730.462506	70.075826	925.855131	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1750

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.435902	-165.712964	-10.550736
-693.134601	-79.851401	-3309.130	
0.25000	-12.435902	-151.313855	-10.550736
-693.046491	-77.082187	-3683.915	
0.50000	-12.435902	-137.674587	-10.550736
-692.958381	-77.940688	-4119.000	
0.75000	-12.435902	-125.132478	-10.550736
-692.870271	-82.741058	-4616.674	
1.00000	-12.435902	-114.051192	-10.550736
-692.782162	-89.365055	-5180.772	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.572201	531.409285	10.577721
619.086566	45.254802	1953.744	
0.25000	9.572201	558.251629	10.577721
619.101813	43.070347	1601.459	
0.50000	9.572201	586.457604	10.577721
619.131974	46.617635	1238.481	
0.75000	9.572201	615.482461	10.577721
627.520637	51.177063	914.637888	
1.00000	9.572201	644.897374	10.577721
657.607894	56.225119	685.357199	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.626276	-154.915963	-9.245451
-568.535628	-57.966432	-2319.474	
0.25000	-9.626276	-128.163271	-9.245451
-568.535628	-60.000570	-2452.440	
0.50000	-9.626276	-102.473615	-9.245451
-568.535628	-62.445265	-2601.240	
0.75000	-9.626276	-79.882977	-9.245451
-568.535628	-65.893173	-2750.431	
1.00000	-9.626276	-66.274325	-9.245451
-568.535628	-70.168315	-2899.793	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.329791	672.055171	12.817821
755.670876	66.564311	1585.875	
0.25000	14.329791	698.029467	12.817821
756.078569	74.808124	1371.590	
0.50000	14.329791	725.365683	12.817821
766.135831	85.033609	1183.988	
0.75000	14.329791	753.576973	12.817821
786.617447	97.160092	1036.899	
1.00000	14.329791	782.217605	12.817821
808.052471	110.132732	948.936858	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.435902	-165.712964	-12.978218
-693.134601	-87.769744	-3309.130	
0.25000	-12.435902	-151.313855	-12.978218
-693.046491	-92.735841	-3735.977	
0.50000	-12.435902	-138.017446	-12.978218
-692.958381	-99.348605	-4250.671	
0.75000	-12.435902	-126.203103	-12.978218
-692.870271	-108.216265	-4831.702	
1.00000	-12.435902	-116.657204	-12.978218
-692.782162	-118.975914	-5484.810	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.329791	672.055171	12.817821
755.670876	66.564311	1953.744	
0.25000	14.329791	698.029467	12.817821
756.078569	74.808124	1601.459	
0.50000	14.329791	725.365683	12.817821
766.135831	85.033609	1238.481	
0.75000	14.329791	753.576973	12.817821
786.617447	97.160092	1036.899	
1.00000	14.329791	782.217605	12.817821
808.052471	110.132732	948.936858	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1751

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.435902	-165.712964	-12.978218
-693.134601	-87.769744	-3309.130	
0.25000	-12.435902	-151.313855	-12.978218
-693.046491	-92.735841	-3735.977	
0.50000	-12.435902	-138.017446	-12.978218
-692.958381	-99.348605	-4250.671	
0.75000	-12.435902	-126.203103	-12.978218
-692.870271	-108.216265	-4831.702	
1.00000	-12.435902	-116.657204	-12.978218
-692.782162	-118.975914	-5484.810	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.329791	672.055171	12.817821
755.670876	66.564311	1953.744	
0.25000	14.329791	698.029467	12.817821
756.078569	74.808124	1601.459	
0.50000	14.329791	725.365683	12.817821
766.135831	85.033609	1238.481	
0.75000	14.329791	753.576973	12.817821
786.617447	97.160092	1036.899	
1.00000	14.329791	782.217605	12.817821
808.052471	110.132732	948.936858	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.435902	-165.712964	-12.978218
-693.134601	-87.769744	-3309.130	
0.25000	-12.435902	-151.313855	-12.978218
-693.046491	-92.735841	-3735.977	
0.50000	-12.435902	-138.017446	-12.978218
-692.958381	-99.348605	-4250.671	
0.75000	-12.435902	-126.203103	-12.978218
-692.870271	-108.216265	-4831.702	
1.00000	-12.435902	-116.657204	-12.978218
-692.782162	-118.975914	-5484.810	

ELEM 148 ========== LENGTH = 3.450070

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.483771	30.003862	2.572658
254.407471	30.015894	136.078048	
0.25000	4.483771	30.013597	2.572658
254.427373	29.026019	150.825092	
0.50000	4.483771	30.023438	2.572658
254.452722	28.176229	165.600835	
0.75000	4.483771	30.033335	2.572658
254.478033	27.463646	180.409628	
1.00000	4.483771	30.043063	2.572658
254.504511	27.800785	195.218421	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.508692	-45.913742	-2.728264
-226.266612	-7.968072	-421.197884	
0.25000	-4.508692	-45.904304	-2.728264
-226.238765	-7.628650	-386.409323	
0.50000	-4.508692	-45.895204	-2.728264
-226.211626	-7.375885	-352.441757	
0.75000	-4.508692	-45.887841	-2.728264
-226.186453	-7.503802	-318.989657	
1.00000	-4.508692	-45.883391	-2.728264
-226.162191	-7.685220	-286.259189	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.166055	75.845272	2.737515
444.491210	57.283771	264.316761	
0.25000	7.166055	75.855004	2.737515
444.510545	57.239490	292.057224	
0.50000	7.166055	75.864828	2.737515
444.535863	57.359181	320.641828	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1752

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	7.166055	75.874735	2.737515
444.561744	57.703438	349.259452	
1.00000	7.166055	75.884480	2.737515
444.587592	59.881144	377.877077	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.214376	-80.379175	-6.570368
-377.913111	-11.144923	-933.151165	
0.25000	-7.214376	-80.369741	-6.570368
-377.885295	-11.183523	-881.326942	
0.50000	-7.214376	-80.360646	-6.570368
-377.858214	-11.224824	-830.629188	
0.75000	-7.214376	-80.353316	-6.570368
-377.833069	-11.272854	-780.928442	
1.00000	-7.214376	-80.348900	-6.570368
-377.808835	-11.324559	-732.392774	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.304774	165.972202	2.765730
549.312340	53.972081	392.219288	
0.25000	7.304774	165.980961	2.765730
549.329869	53.873933	434.739577	
0.50000	7.304774	165.989816	2.765730
549.352662	54.019886	477.288718	
0.75000	7.304774	165.998721	2.765730
549.375961	54.439199	519.867583	
1.00000	7.304774	166.007493	2.765730
549.399232	56.505638	562.446449	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.352794	-90.375697	-6.245986
-441.121127	-11.074930	-1622.721	
0.25000	-7.352792	-90.367206	-6.245986
-441.096085	-10.777877	-1585.417	
0.50000	-7.352792	-90.359019	-6.245986
-441.071699	-10.873592	-1549.214	
0.75000	-7.352792	-90.352414	-6.245986
-441.049062	-10.974112	-1514.243	
1.00000	-7.352792	-90.348433	-6.245986
-441.027246	-11.077089	-1480.147	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.241255	349.027721	4.774939
584.061331	47.167786	552.127462	
0.25000	8.241255	358.163317	4.774939
584.062392	47.103430	551.995792	
0.50000	8.241255	367.419096	4.774939
586.013041	47.247915	573.980725	
0.75000	8.241255	376.749302	4.774939
604.031037	47.623269	625.170156	
1.00000	8.241255	385.938796	4.774939
621.129726	49.369385	676.359586	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.259271	-116.367701	-5.928297
-553.307979	-33.037452	-2232.430	
0.25000	-8.259271	-107.675108	-5.928297
-536.338211	-33.019946	-2247.131	
0.50000	-8.259271	-100.490252	-5.928297
-518.822220	-33.234579	-2262.771	
0.75000	-8.259271	-95.344460	-5.928297
-501.900219	-33.488363	-2279.403	
1.00000	-8.259271	-94.449667	-5.928297
-501.900219	-33.798695	-2296.763	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.449500	71.270184	0.114297
205.210149	24.377779	159.696209	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1753

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	2.449500	71.377245	0.114297
205.424394	25.474871	176.529585	
0.50000	2.449500	71.485473	0.114297
205.702974	26.634356	193.382497	
0.75000	2.449500	71.594311	0.114297
205.987747	28.294916	210.598712	
1.00000	2.449500	71.701515	0.114297
206.272161	30.408321	227.814928	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.469011	-36.572686	-3.859598
-156.688547	-3.061488	-699.967400	
0.25000	-2.469011	-36.468898	-3.859598
-156.382480	-3.111031	-689.301896	
0.50000	-2.469011	-36.368841	-3.859598
-156.084433	-3.170339	-679.268800	
0.75000	-2.469011	-36.288115	-3.859598
-155.807763	-3.226985	-669.511168	
1.00000	-2.469011	-36.239452	-3.859598
-155.541111	-3.284669	-660.306074	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.417202	219.276028	1.381757
373.024175	24.626358	357.007200	
0.25000	3.417202	219.287761	1.381757
373.043652	26.003524	371.592868	
0.50000	3.417202	219.297599	1.381757
373.068977	27.232111	407.917515	
0.75000	3.417202	219.307494	1.381757
373.094865	28.633026	444.275189	
1.00000	3.417202	219.317240	1.381757
373.120721	30.246531	480.632864	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.431317	-55.468141	-3.636744
-279.857916	-13.155738	-1650.267	
0.25000	-3.431317	-55.458705	-3.636744
-279.830092	-13.581000	-1663.687	
0.50000	-3.431317	-55.449609	-3.636744
-279.802997	-14.247113	-1677.601	
0.75000	-3.431317	-55.442271	-3.636744
-279.777845	-14.954507	-1692.000	
1.00000	-3.431317	-55.437847	-3.636744
-279.753604	-15.682891	-1706.630	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.461993	224.890166	2.348982
536.564248	46.888217	434.329356	
0.25000	6.461993	224.898926	2.348982
536.581777	47.178990	459.583290	
0.50000	6.461993	224.907781	2.348982
536.604570	47.683226	504.545751	
0.75000	6.461993	224.916686	2.348982
536.627870	48.404782	549.537936	
1.00000	6.461993	224.925457	2.348982
536.651140	50.675863	594.530121	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.498382	-85.557962	-5.969506
-425.784755	-17.011579	-1860.672	
0.25000	-6.498382	-85.549470	-5.969506
-425.759714	-17.499421	-1846.816	
0.50000	-6.498382	-85.541284	-5.969506
-425.735328	-18.096449	-1833.855	
0.75000	-6.498382	-85.534679	-5.969506
-425.712691	-18.733523	-1821.752	
1.00000	-6.498382	-85.530698	-5.969506
-425.690874	-19.390415	-1810.366	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1754

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.419730	451.425976	4.879438
597.296323	40.976274	616.400235	
0.25000	8.419730	465.511148	4.879438
597.296323	41.148192	590.942945	
0.50000	8.419730	479.824726	4.879438
597.296323	41.514752	603.454989	
0.75000	8.419730	494.280431	4.879438
597.296323	42.037699	657.229524	
1.00000	8.419730	508.555366	4.879438
597.296323	43.868914	711.004059	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.415974	-109.983112	-6.204068
-562.202639	-41.817912	-2519.487	
0.25000	-8.415974	-99.599302	-6.204068
-544.248397	-41.554051	-2571.785	
0.50000	-8.415974	-91.879942	-6.204068
-544.248397	-41.516693	-2624.819	
0.75000	-8.415974	-89.846984	-6.204068
-544.248397	-41.550103	-2678.869	
1.00000	-8.415974	-89.846984	-6.204068
-544.248397	-41.613060	-2733.574	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.263006	436.784548	4.812846
319.658554	6.481278	392.574479	
0.25000	5.263006	454.946603	4.812846
319.658554	4.457831	302.467811	
0.50000	5.263006	473.524068	4.812846
319.658554	2.987892	283.974684	
0.75000	5.263006	492.374628	4.812846
319.658554	2.636555	309.206346	
1.00000	5.263006	511.039276	4.812846
319.658554	2.521422	334.438009	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.190424	-31.021217	-2.668510
-412.982769	-45.458507	-1548.471	
0.25000	-5.190424	-29.277190	-2.668510
-412.982769	-45.202273	-1662.427	
0.50000	-5.190424	-29.277190	-2.668510
-412.982769	-44.558650	-1776.415	
0.75000	-5.190424	-29.277190	-2.668510
-412.982769	-43.980990	-1890.404	
1.00000	-5.190424	-29.277190	-2.668510
-412.982769	-43.490523	-2004.803	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.841228	615.479331	7.105222
468.790491	7.417586	605.802965	
0.25000	6.841228	637.133543	7.105222
468.790491	5.793569	495.271930	
0.50000	6.841228	659.229961	7.105222
468.790491	5.756383	482.843757	
0.75000	6.841228	681.620207	7.105222
468.790491	5.726509	525.816403	
1.00000	6.841228	703.776128	7.105222
468.790491	5.702454	568.789050	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.666083	-60.803765	-3.173357
-538.793753	-69.075688	-2476.456	
0.25000	-6.666083	-51.474102	-3.173357
-538.793753	-69.217474	-2624.280	
0.50000	-6.666083	-51.474102	-3.173357
-538.793753	-69.505357	-2772.349	
0.75000	-6.666083	-51.474102	-3.173357
-538.793753	-69.899344	-2920.424	
1.00000	-6.666083	-51.474102	-3.173357
-538.793753	-70.420226	-3068.513	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1755

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.492499	625.477081	6.042878
577.873168	17.113824	685.595300	
0.25000	7.492499	645.334995	6.042878
577.873168	16.248510	606.160608	
0.50000	7.492499	665.593520	6.042878
577.873168	16.714935	609.290228	
0.75000	7.492499	686.119262	6.042878
577.873168	17.299433	663.527518	
1.00000	7.492499	706.427534	6.042878
577.873168	17.996549	717.764809	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.431323	-78.029129	-4.461951
-593.102959	-56.718722	-2900.542	
0.25000	-7.431323	-68.802300	-4.461951
-593.102959	-56.426816	-3031.338	
0.50000	-7.431323	-68.802300	-4.461951
-593.102959	-56.274112	-3162.705	
0.75000	-7.431323	-68.802300	-4.461951
-593.102959	-56.201234	-3294.343	
1.00000	-7.431323	-68.802300	-4.461951
-593.102959	-56.238811	-3426.023	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.844179	549.348999	5.456040
646.794226	37.067084	670.821621	
0.25000	8.844179	565.905281	5.456040
646.794226	36.507085	615.518502	
0.50000	8.844179	582.795403	5.456040
646.794226	37.080445	628.898892	
0.75000	8.844179	599.908220	5.456040
646.794226	37.821032	684.898714	
1.00000	8.844179	616.839679	5.456040
646.794226	39.580320	740.899035	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.814236	-94.650859	-6.625389
-632.114628	-51.062360	-2778.241	
0.25000	-8.814236	-86.935786	-6.625389
-632.114628	-50.687304	-2867.985	
0.50000	-8.814236	-86.935786	-6.625389
-632.114628	-50.564662	-2958.658	
0.75000	-8.814236	-86.935786	-6.625389
-632.114628	-50.510178	-3049.861	
1.00000	-8.814236	-86.935786	-6.625389
-632.114628	-50.548665	-3141.620	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.590884	45.344710	2.656235
325.208882	57.053028	204.082608	
0.25000	7.590884	45.351068	2.656235
325.220294	56.563084	215.338821	
0.50000	7.590884	45.357594	2.656235
325.232316	56.199490	228.169644	
0.75000	7.590884	45.364238	2.656235
325.244820	55.981748	242.415409	
1.00000	7.590884	45.370932	2.656235
325.257668	56.333165	257.910397	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.485302	-77.293213	-2.724464
-334.737854	-14.177927	-631.112630	
0.25000	-6.485302	-77.288763	-2.724464
-334.724186	-13.920883	-611.982217	
0.50000	-6.485302	-77.284587	-2.724464
-334.711190	-13.905878	-594.854702	
0.75000	-6.485302	-77.280740	-2.724464
-334.698980	-14.149519	-579.441612	
1.00000	-6.485302	-77.277255	-2.724464
-334.687662	-14.591270	-565.654759	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1756

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.784517	105.017400	2.800619
560.921568	111.591522	373.782110	
0.25000	11.784517	105.023756	2.800619
560.932958	114.024358	399.135677	
0.50000	11.784517	105.030281	2.800619
560.944959	116.608320	428.116926	
0.75000	11.784517	105.036926	2.800619
560.957441	119.365848	459.890742	
1.00000	11.784517	105.043618	2.800619
560.970267	122.897127	493.885285	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.559792	-134.315412	-7.149699
-545.618639	-18.283544	-1470.823	
0.25000	-10.559792	-134.310966	-7.149699
-545.604992	-18.066492	-1464.953	
0.50000	-10.559792	-134.306794	-7.149699
-545.592017	-17.965812	-1463.133	
0.75000	-10.559792	-134.302951	-7.149699
-545.579825	-17.971392	-1464.808	
1.00000	-10.559792	-134.299459	-7.149699
-545.568525	-18.068804	-1469.227	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.253424	235.153117	2.935224
672.307972	100.852865	556.056435	
0.25000	12.253424	235.336183	2.935224
672.635848	102.876535	591.207355	
0.50000	12.253424	235.524094	2.935224
672.981342	105.153875	633.908584	
0.75000	12.253424	235.715451	2.935224
673.340652	107.684266	682.098552	
1.00000	12.253424	235.908165	2.935224
673.709870	111.006069	733.883818	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.431355	-153.679399	-7.066020
-609.503704	-19.608960	-2786.942	
0.25000	-10.431355	-153.551379	-7.066020
-609.110830	-19.045478	-2875.623	
0.50000	-10.431355	-153.431255	-7.066020
-608.737283	-18.787405	-2973.619	
0.75000	-10.431355	-153.320584	-7.066020
-608.386314	-18.690754	-3078.721	
1.00000	-10.431355	-153.220334	-7.066020
-608.060989	-18.726624	-3188.184	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.693609	461.934966	4.990929
714.003538	86.945681	773.793472	
0.25000	13.693609	471.377809	4.990929
725.340525	88.631114	774.694191	
0.50000	13.693609	481.086995	4.990929
740.398077	90.544858	791.637774	
0.75000	13.693609	490.961623	4.990929
756.123869	92.682627	818.052139	
1.00000	13.693609	500.899370	4.990929
772.311389	95.492739	867.588955	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.403217	-181.397452	-6.640019
-723.298692	-58.074771	-3975.000	
0.25000	-11.403217	-175.275406	-6.640019
-705.791638	-58.577894	-4215.735	
0.50000	-11.403217	-169.534803	-6.640019
-689.094005	-59.399592	-4474.620	
0.75000	-11.403217	-164.235436	-6.640019
-673.388944	-60.401568	-4751.376	
1.00000	-11.403217	-159.479146	-6.640019
-658.846113	-61.554549	-5043.367	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1757

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.874941	89.874157	0.172640
248.285810	49.126699	210.835368	
0.25000	3.874941	89.937724	0.172640
248.399709	52.286189	227.719229	
0.50000	3.874941	90.002973	0.172640
248.519722	55.467102	247.115089	
0.75000	3.874941	90.069418	0.172640
248.644542	58.656002	268.156663	
1.00000	3.874941	90.136336	0.172640
248.772798	61.913968	290.348098	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.677556	-57.298092	-4.508190
-207.587393	-4.980142	-1174.262	
0.25000	-3.677556	-57.253630	-4.508190
-207.450925	-5.070456	-1213.744	
0.50000	-3.677556	-57.211911	-4.508190
-207.321170	-5.162331	-1256.197	
0.75000	-3.677556	-57.173474	-4.508190
-207.199258	-5.256639	-1301.048	
1.00000	-3.677556	-57.138657	-4.508190
-207.086254	-5.354270	-1347.284	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.838641	295.824475	1.587688
424.114280	43.125033	490.897512	
0.25000	5.838641	295.839832	1.587688
424.125686	45.649436	496.230094	
0.50000	5.838641	295.837358	1.587688
424.137703	48.315538	525.126706	
0.75000	5.838641	295.844003	1.587688
424.150202	51.098038	567.016798	
1.00000	5.838641	295.850696	1.587688
424.163044	54.052268	613.455541	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.622820	-94.617512	-4.491880
-331.814506	-23.541020	-2949.512	
0.25000	-4.622820	-94.613063	-4.491880
-331.800843	-24.032213	-3122.182	
0.50000	-4.622820	-94.608888	-4.491880
-331.787853	-24.740727	-3306.298	
0.75000	-4.622820	-94.605042	-4.491880
-331.775647	-25.507076	-3500.796	
1.00000	-4.622820	-94.601558	-4.491880
-331.764334	-26.344841	-3700.835	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.813477	305.995164	2.496367
637.102994	89.209158	601.371010	
0.25000	10.813477	306.000886	2.496367
637.113259	92.340121	616.928397	
0.50000	10.813477	306.006759	2.496367
637.124074	95.603060	655.107211	
0.75000	10.813477	306.012739	2.496367
637.135323	98.988194	706.103605	
1.00000	10.813477	306.018763	2.496367
637.146881	103.082236	761.972185	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.131759	-145.817264	-6.912016
-553.403996	-28.906253	-3291.671	
0.25000	-9.131759	-145.813260	-6.912016
-553.391699	-29.486536	-3428.112	
0.50000	-9.131759	-145.809503	-6.912016
-553.380007	-30.194349	-3572.098	
0.75000	-9.131759	-145.806041	-6.912016
-553.369022	-30.942667	-3726.658	
1.00000	-9.131759	-145.802905	-6.912016
-553.358840	-31.751004	-3887.125	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1758

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.567352	593.762398	4.960017
739.120974	76.644969	854.444182	
0.25000	13.567352	608.536160	4.960017
740.038568	79.096679	838.584662	
0.50000	13.567352	623.706605	4.960017
742.024846	81.689025	837.893653	
0.75000	13.567352	639.109334	4.960017
745.070576	84.412795	847.142108	
1.00000	13.567352	654.607302	4.960017
755.793977	87.751471	905.369562	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.472077	-175.398828	-6.961756
-729.768902	-72.006096	-4639.423	
0.25000	-11.472077	-166.965629	-6.961756
-708.730851	-72.965273	-4974.146	
0.50000	-11.472077	-159.040466	-6.961756
-698.976679	-74.114388	-5329.020	
0.75000	-11.472077	-151.753774	-6.961756
-694.124242	-75.329990	-5707.232	
1.00000	-11.472077	-146.244868	-6.961756
-691.215945	-76.654702	-6107.292	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.680514	575.249169	4.726539
448.139096	7.897062	542.708091	
0.25000	7.680514	595.199130	4.726539
448.139096	6.279036	478.742712	
0.50000	7.680514	615.653646	4.726539
448.139096	5.027874	420.538402	
0.75000	7.680514	636.397340	4.726539
448.110741	4.290088	392.595538	
1.00000	7.680514	657.169537	4.726539
447.474630	4.046269	419.094472	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.716455	-57.663180	-2.562951
-510.418496	-79.534565	-3050.406	
0.25000	-6.716455	-48.993530	-2.562951
-513.492293	-79.637419	-3431.587	
0.50000	-6.716455	-40.826746	-2.562951
-516.565989	-80.037329	-3837.465	
0.75000	-6.716455	-40.171695	-2.562951
-519.611330	-80.655360	-4269.824	
1.00000	-6.716455	-40.089816	-2.562951
-522.048915	-81.507578	-4729.869	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.572494	813.957804	7.227730
610.946968	10.940792	844.742800	
0.25000	10.572494	836.683683	7.227730
610.946968	9.233194	752.038513	
0.50000	10.572494	860.007598	7.227730
610.946968	8.174709	690.270937	
0.75000	10.572494	883.663549	7.227730
610.946968	7.971634	668.932762	
1.00000	10.572494	907.415225	7.227730
610.940646	7.946874	716.058418	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.619702	-104.587533	-3.188878
-644.969123	-119.140507	-4807.476	
0.25000	-8.619702	-94.042419	-3.188878
-645.309187	-120.796554	-5338.380	
0.50000	-8.619702	-84.072075	-3.188878
-645.649239	-122.814917	-5897.798	
0.75000	-8.619702	-79.362061	-3.188878
-645.989291	-125.090363	-6494.842	
1.00000	-8.619702	-79.094780	-3.188878
-646.323061	-127.632604	-7126.448	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1759

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.693986	825.492169	6.167049
734.425673	27.431058	948.872330	
0.25000	11.693986	846.283280	6.167049
734.425673	27.054711	884.390767	
0.50000	11.693986	867.621550	6.167049
734.425673	27.482503	846.734489	
0.75000	11.693986	889.265619	6.167049
734.425673	28.675035	844.509669	
1.00000	11.693986	910.997363	6.167049
734.426443	30.131651	906.114302	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.602252	-132.461702	-4.991084
-722.415033	-100.472088	-5484.358	
0.25000	-9.602252	-122.734226	-4.991084
-722.355823	-101.384131	-6016.391	
0.50000	-9.602252	-113.537947	-4.991084
-722.296614	-102.659581	-6582.541	
0.75000	-9.602252	-108.623470	-4.991084
-722.237406	-104.208120	-7183.813	
1.00000	-9.602252	-108.493823	-4.991084
-722.178498	-106.027206	-7817.768	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.898969	726.494884	5.563870
820.104828	70.174160	925.759497	
0.25000	13.898969	743.825918	5.563870
820.104828	71.665882	882.983449	
0.50000	13.898969	761.613053	5.563870
820.104828	73.843245	863.667386	
0.75000	13.898969	779.655140	5.563870
820.104828	76.662609	874.667839	
1.00000	13.898969	797.770360	5.563870
820.105825	80.069164	939.498754	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.905459	-160.624082	-7.454207
-800.263387	-89.292286	-5180.386	
0.25000	-11.905459	-152.512793	-7.454207
-800.201694	-90.092265	-5614.401	
0.50000	-11.905459	-144.844478	-7.454207
-800.140002	-91.195684	-6079.203	
0.75000	-11.905459	-140.849067	-7.454207
-800.078311	-92.527687	-6579.989	
1.00000	-11.905459	-140.623414	-7.454207
-800.017622	-94.084483	-7102.693	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.844179	625.477081	7.105222
646.794226	57.283771	685.595300	
0.25000	8.844179	645.334995	7.105222
646.794226	57.239490	615.518502	
0.50000	8.844179	665.593520	7.105222
646.794226	57.359181	628.898392	
0.75000	8.844179	686.119262	7.105222
646.794226	57.703438	684.898714	
1.00000	8.844179	706.427534	7.105222
646.794226	59.881144	740.899035	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.814236	-116.367701	-6.625389
-632.114628	-69.075688	-2900.542	
0.25000	-8.814236	-107.675108	-6.625389
-632.114628	-69.217474	-3031.338	
0.50000	-8.814236	-100.490252	-6.625389
-632.114628	-69.505357	-3162.705	
0.75000	-8.814236	-95.344460	-6.625389
-632.114628	-69.893344	-3294.343	
1.00000	-8.814236	-94.449667	-6.625389
-632.114628	-70.420226	-3426.023	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1760

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.898969	825.492169	7.227730
820.104828	111.591522	948.872330	
0.25000	13.898969	846.283280	7.227730
820.104828	114.024358	884.390767	
0.50000	13.898969	867.621550	7.227730
820.104828	116.608320	863.667386	
0.75000	13.898969	889.265619	7.227730
820.104828	119.365848	874.667839	
1.00000	13.898969	910.997363	7.227730
820.105825	122.897127	939.498754	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.905459	-181.397452	-7.454207
-800.263387	-119.140507	-5484.358	
0.25000	-11.905459	-175.275406	-7.454207
-800.201694	-120.796554	-6016.391	
0.50000	-11.905459	-169.534803	-7.454207
-800.140002	-122.814917	-6582.541	
0.75000	-11.905459	-164.235436	-7.454207
-800.078311	-125.090363	-7183.813	
1.00000	-11.905459	-159.479146	-7.454207
-800.017622	-127.632604	-7817.768	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.898969	825.492169	7.227730
820.104828	111.591522	948.872330	
0.25000	13.898969	846.283280	7.227730
820.104828	114.024358	884.390767	
0.50000	13.898969	867.621550	7.227730
820.104828	116.608320	863.667386	
0.75000	13.898969	889.265619	7.227730
820.104828	119.365848	874.667839	
1.00000	13.898969	910.997363	7.227730
820.105825	122.897127	939.498754	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.905459	-181.397452	-7.454207
-800.263387	-119.140507	-5484.358	
0.25000	-11.905459	-175.275406	-7.454207
-800.201694	-120.796554	-6016.391	
0.50000	-11.905459	-169.534803	-7.454207
-800.140002	-122.814917	-6582.541	
0.75000	-11.905459	-164.235436	-7.454207
-800.078311	-125.090363	-7183.813	
1.00000	-11.905459	-159.479146	-7.454207
-800.017622	-127.632604	-7817.768	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.898969	825.492169	7.227730
820.104828	111.591522	948.872330	
0.25000	13.898969	846.283280	7.227730
820.104828	114.024358	884.390767	
0.50000	13.898969	867.621550	7.227730
820.104828	116.608320	863.667386	
0.75000	13.898969	889.265619	7.227730
820.104828	119.365848	874.667839	
1.00000	13.898969	910.997363	7.227730
820.105825	122.897127	939.498754	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.905459	-181.397452	-7.454207
-800.263387	-119.140507	-5484.358	
0.25000	-11.905459	-175.275406	-7.454207
-800.201694	-120.796554	-6016.391	
0.50000	-11.905459	-169.534803	-7.454207
-800.140002	-122.814917	-6582.541	
0.75000	-11.905459	-164.235436	-7.454207
-800.078311	-125.090363	-7183.813	
1.00000	-11.905459	-159.479146	-7.454207
-800.017622	-127.632604	-7817.768	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1761

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 149 ========== LENGTH = 4.927597

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.170844	45.710257	3.909392
191.812435	27.683568	195.365319	
0.25000	4.170844	45.717095	3.909392
191.821730	28.094707	196.272500	
0.50000	4.170844	45.726934	3.909392
191.856130	29.368385	197.216154	
0.75000	4.170844	45.739039	3.909392
191.893497	30.814872	198.266904	
1.00000	4.170844	45.752736	3.909392
191.935927	32.525864	199.444027	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.147292	-43.513726	-2.987863
-293.549631	-7.793065	-285.237054	
0.25000	-4.147292	-43.499324	-2.987863
-293.508690	-7.102531	-237.622158	
0.50000	-4.147292	-43.486368	-2.987863
-293.473425	-6.679875	-264.840638	
0.75000	-4.147292	-43.473600	-2.987863
-293.439107	-7.398040	-310.634821	
1.00000	-4.147292	-43.461251	-2.987863
-293.423451	-9.335455	-358.680403	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.666145	80.194824	8.613381
322.124979	59.467760	378.089517	
0.25000	6.666145	80.201658	8.613381
322.133778	57.404383	376.851945	
0.50000	6.666145	80.211470	8.613381
322.168142	56.758222	375.712810	
0.75000	6.666145	80.223570	8.613381
322.205446	56.706658	374.679957	
1.00000	6.666145	80.237259	8.613381
322.247826	57.431024	375.757493	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.636855	-102.936078	-3.311837
-504.125969	-11.819995	-730.719477	
0.25000	-6.636855	-102.921682	-3.311837
-504.085122	-10.865925	-618.388316	
0.50000	-6.636855	-102.908729	-3.311837
-504.049894	-9.993339	-639.723360	
0.75000	-6.636855	-102.895964	-3.311837
-504.015616	-9.200063	-711.717976	
1.00000	-6.636855	-102.883618	-3.311837
-504.000529	-10.212992	-787.287857	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.853769	91.234445	8.304727
378.907050	55.245111	562.627754	
0.25000	6.853769	91.240596	8.304727
378.915081	53.467524	555.179848	
0.50000	6.853769	91.249433	8.304727
378.946017	52.855719	547.816414	
0.75000	6.853769	91.260324	8.304727
378.979605	52.770688	540.539872	
1.00000	6.853769	91.272646	8.304727
379.017758	53.316464	533.394400	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.769602	-203.783710	-3.108801
-611.874254	-11.470278	-1478.344	
0.25000	-6.769602	-203.770752	-3.108801
-611.837470	-10.388155	-1261.818	
0.50000	-6.769602	-203.759094	-3.108801
-611.805757	-9.358383	-1234.463	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1762

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-6.769602	-203.747605	-3.108801
-611.774897	-10.025029	-1294.929	
1.00000	-6.769602	-203.736493	-3.108801
-611.761191	-12.734522	-1359.336	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.643570	86.139441	7.279715
452.875452	48.478966	676.441632	
0.25000	7.643570	92.359630	7.279715
452.875452	46.989726	661.762954	
0.50000	7.643570	99.272397	7.279715
464.528728	46.474423	656.933938	
0.75000	7.643570	110.538979	7.279715
488.471616	46.390658	687.810691	
1.00000	7.643570	123.096259	7.279715
511.115296	46.833854	788.135240	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.542499	-422.755426	-5.396238
-675.385479	-33.663974	-2295.744	
0.25000	-7.542499	-409.398831	-5.396238
-653.148502	-30.429875	-1959.648	
0.50000	-7.542499	-397.078707	-5.396238
-628.999852	-27.566754	-1858.554	
0.75000	-7.542499	-384.952015	-5.396238
-622.765416	-26.950097	-1856.791	
1.00000	-7.542499	-373.251484	-5.396238
-622.764246	-28.590475	-1858.357	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.278902	36.210373	4.657645
134.883801	30.097670	227.861270	
0.25000	2.278902	36.285554	4.657645
134.981960	27.499623	223.740629	
0.50000	2.278902	36.393566	4.657645
135.360061	25.523383	219.822077	
0.75000	2.278902	36.526674	4.657645
135.770582	23.878307	216.193224	
1.00000	2.278902	36.677280	4.657645
136.236899	22.637840	212.952766	

COMB DB-G2-1 ---------- MIN

```
  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -2.274186  -88.068475  -0.369420
-225.430894  -3.412185  -659.674490
 0.25000  -2.274186  -87.910105  -0.369420
-224.981314  -2.995231  -565.846609
 0.50000  -2.274186  -87.767616  -0.369420
-224.593708  -2.594030  -542.955751
 0.75000  -2.274186  -87.627191  -0.369420
-224.216537  -2.392395  -562.983536
 1.00000  -2.274186  -87.491380  -0.369420
-224.049013  -2.266755  -584.093850

  COMB DB-G2-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   3.198770   51.873427   4.391899
237.027259  29.306056  480.638955
 0.25000   3.198770   51.880261   4.391899
237.036182  26.688952  468.053116
 0.50000   3.198770   51.890081   4.391899
237.070555  24.587696  455.516843
 0.75000   3.198770   51.902181   4.391899
237.107875  22.847744  443.017214
 1.00000   3.198770   51.915873   4.391899
237.150268  21.569785  483.424548

  COMB DB-G2-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -3.133849  -244.339187  -1.558052
-391.141955  -15.688505  -1705.895
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD            >
                        1763

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  REL DIST          P          V2          V3
    T          M2          M3
 0.25000  -3.133849  -244.324790  -1.558052
-391.101084  -13.911385  -1464.142
 0.50000  -3.133849  -244.311836  -1.558052
-391.065847  -12.182157  -1374.867
 0.75000  -3.133849  -244.299070  -1.558052
-391.031559  -11.957511  -1372.848
 1.00000  -3.133849  -244.286724  -1.558052
-391.016330  -13.051639  -1372.660

  COMB DB-G2-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.016987   82.660083   7.611454
361.429773  49.293384  594.641089
 0.25000   6.016987   82.666234   7.611454
361.437804  47.606159  583.371105
 0.50000   6.016987   82.675072   7.611454
361.468739  46.562753  572.214868
 0.75000   6.016987   82.685952   7.611454
361.502328  45.891910  561.090435
 1.00000   6.016987   82.698285   7.611454
361.540481  45.663075  597.840090

  COMB DB-G2-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.957994  -259.195518  -2.609634
-581.434576  -19.637990  -1808.922
 0.25000  -5.957994  -259.182560  -2.609634
-581.397792  -17.595437  -1547.737
 0.50000  -5.957994  -259.170902  -2.609634
-581.366079  -15.698321  -1442.918
 0.75000  -5.957994  -259.159413  -2.609634
-581.335219  -14.883034  -1516.402
 1.00000  -5.957994  -259.148301  -2.609634
-581.321513  -15.610424  -1553.078

  COMB DB-G2-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.774998   76.270187   7.137883
517.137400  43.014043  711.010215
 0.25000   7.774998   83.184455   7.137883
517.137400  41.55021   692.258906
 0.50000   7.774998   93.112234   7.137883
517.137400  40.617506  677.446604
 0.75000   7.774998  106.192971   7.137883
517.137400  40.001873  741.699112
 1.00000   7.774998  124.937300   7.137883
544.836931  39.753700  892.948636

  COMB DB-G2-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -7.663825  -543.256928  -5.437304
-627.170922  -41.112840  -2733.270
 0.25000  -7.663825  -522.972412  -5.437304
-616.935918  -37.331041  -2330.361
 0.50000  -7.663825  -503.641013  -5.437304
-616.935918  -34.103237  -2180.236
 0.75000  -7.663825  -484.642284  -5.437304
-616.935918  -33.492701  -2132.984
 1.00000  -7.663825  -466.368684  -5.437304
-616.935918  -34.400015  -2088.431

  COMB DB-G3-1 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   4.781178   12.376327   2.058008
454.957401  3.181548  334.294131
 0.25000   4.781178   12.376327   2.058008
454.957401  3.055067  319.423004
 0.50000   4.781178   20.131588   2.058008
454.957401  2.930704  304.551924
 0.75000   4.781178   32.340720   2.058008
454.957401  3.103842  405.753233
 1.00000   4.781178   47.982607   2.058008
454.957401  8.689537  622.871369
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD            >
                        1764

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DB-G3-1 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.672932  -512.544603  -5.424431
-283.322202  -42.480371  -2006.595
 0.25000  -4.672932  -487.193588  -5.424431
-283.322202  -39.217308  -1695.897
 0.50000  -4.672932  -461.396678  -5.424431
-283.322202  -36.540227  -1534.232
 0.75000  -4.672932  -436.120126  -5.424431
-283.322202  -35.596623  -1398.677
 1.00000  -4.672932  -411.963848  -5.424431
-283.322202  -35.835490  -1263.852

  COMB DB-G3-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.306439   24.610435   2.262543
563.962106  6.410691  568.589278
 0.25000   6.306439   24.610435   2.262543
563.962106  6.232636  545.069387
 0.50000   6.306439   38.703804   2.262543
563.962106  6.077238  521.563236
 0.75000   6.306439   53.626432   2.262543
563.962106  6.187162  634.964980
 1.00000   6.306439   76.475900   2.262543
563.962106  10.488341  933.540670

  COMB DB-G3-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -5.976456  -711.136524  -8.053663
-425.624247  -69.189011  -3070.447
 0.25000  -5.976456  -680.654957  -8.053663
-425.624247  -63.191692  -2607.510
 0.50000  -5.976456  -650.212132  -8.053663
-425.624247  -57.950672  -2373.869
 0.75000  -5.976456  -620.360965  -8.053663
-425.624247  -54.868026  -2202.321
 1.00000  -5.976456  -591.768832  -8.053663
-425.624247  -53.216459  -2032.097

  COMB DB-G3-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.840818   48.099568   4.209119
604.304547  17.737841  717.604158
 0.25000   6.840818   48.245094   4.209119
604.304547  16.660432  691.775253
 0.50000   6.840818   61.472349   4.209119
604.304547  15.662713  665.956634
 0.75000   6.840818   75.190962   4.209119
604.304547  14.746434  765.545532
 1.00000   6.840818   96.533539   4.209119
604.304547  18.026304  1018.492

  COMB DB-G3-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.714125  -728.270110  -6.742345
-552.783172  -55.114113  -3427.315
 0.25000  -6.714125  -700.293370  -6.742345
-552.783172  -50.345962  -2917.466
 0.50000  -6.714125  -672.405066  -6.742345
-552.783172  -46.262077  -2676.360
 0.75000  -6.714125  -645.056592  -6.742345
-552.783172  -45.125616  -2531.403
 1.00000  -6.714125  -618.855616  -6.742345
-552.783172  -46.719929  -2388.665

  COMB DB-G3-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   8.135750   70.010996   7.218282
621.617135  39.016664  740.839639
 0.25000   8.135750   70.146170   7.218282
621.617135  37.163047  718.614533
 0.50000   8.135750   81.175299   7.218282
621.617135  35.742617  696.434165
 0.75000   8.135750   92.614144   7.218282
621.617135  34.624982  778.809960
 1.00000   8.135750  110.421169   7.218282
621.617135  37.247978  988.748262
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD            >
                        1765

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DB-G3-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.006909  -645.824411  -6.096932
-646.970911  -49.794054  -3142.065
 0.25000  -8.006909  -622.498372  -6.096932
-646.970911  -45.475314  -2673.765
 0.50000  -8.006909  -599.247825  -6.096932
-646.970911  -41.760064  -2478.498
 0.75000  -8.006909  -576.447264  -6.096932
-646.970911  -40.767729  -2384.843
 1.00000  -8.006909  -554.603177  -6.096932
-646.970911  -41.739225  -2294.377

  COMB DL-G1-1 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.568728   57.178730   4.431614
249.557389  57.092708  257.977488
 0.25000   7.568728   57.183111   4.431614
249.572214  55.374614  254.524889
 0.50000   7.568728   57.188159   4.431614
249.588680  54.265723  258.462945
 0.75000   7.568728   57.193765   4.431614
249.606522  53.657134  267.540002
 1.00000   7.568728   57.199806   4.431614
249.625471  53.586890  282.881927

  COMB DL-G1-1 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.350321  -59.373431  -3.501567
-413.825747  -15.234488  -565.255815
 0.25000  -6.350321  -59.364265  -3.501567
-413.807935  -13.571522  -555.714404
 0.50000  -6.350321  -59.355200  -3.501567
-413.790836  -12.335659  -554.814303
 0.75000  -6.350321  -59.346386  -3.501567
-413.774762  -12.141742  -560.406292
 1.00000  -6.350321  -59.337976  -3.501567
-413.760008  -12.933687  -573.565369

  COMB DL-G1-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.893260   98.805964   10.389803
411.790024  124.179715  494.029744
 0.25000   11.893260   98.810342   10.389803
411.804828  116.318989  485.231088
 0.50000   11.893260   98.815385   10.389803
411.821269  109.059689  485.782479
 0.75000   11.893260   98.820987   10.389803
411.839086  102.458222  494.350328
 1.00000   11.893260   98.827024   10.389803
411.858006  97.229140  515.787637

  COMB DL-G1-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.399406  -134.523214  -3.961555
-700.161949  -19.131077  -1468.653
 0.25000  -10.399406  -134.514049  -3.961555
-700.144168  -17.338344  -1413.528
 0.50000  -10.399406  -134.504985  -3.961555
-700.127099  -15.906189  -1370.112
 0.75000  -10.399406  -134.496172  -3.961555
-700.111054  -14.983858  -1336.561
 1.00000  -10.399406  -134.487762  -3.961555
-700.096328  -15.943919  -1317.762

  COMB DL-G1-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   12.740560   107.535483   10.152099
471.345817  111.676616  734.010175
 0.25000   12.740560   107.661530   10.152099
471.772018  104.287958  719.087937
 0.50000   12.740560   107.806748   10.152099
472.245349  97.614024  713.915245
 0.75000   12.740560   107.968046   10.152099
472.758269  91.779039  723.790559
 1.00000   12.740560   108.141875   10.152099
473.302983  87.247433  757.760361
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD            >
                        1766

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DL-G1-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -10.556391  -276.734182  -4.008459
-815.209583  -19.259425  -3187.591
 0.25000  -10.556391  -276.470234  -4.008459
-814.697698  -17.628014  -2975.448
 0.50000  -10.556391  -276.209191  -4.008459
-814.206329  -16.614214  -2776.336
 0.75000  -10.556391  -275.955380  -4.008459
-813.744441  -16.531497  -2595.674
 1.00000  -10.556391  -275.713187  -4.008459
-813.320560  -18.594554  -2443.372

  COMB DL-G1-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.985105   105.389978   8.800145
561.689371  96.337556  867.602544
 0.25000   13.985105   111.465633   8.800145
573.859029  90.068685  870.243766
 0.50000   13.985105   118.482063   8.800145
595.261450  84.400079  902.557258
 0.75000   13.985105   126.306782   8.800145
618.455246  79.436559  954.364479
 1.00000   13.985105   134.733461   8.800145
642.966663  75.570557  1038.539

  COMB DL-G1-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.317077  -536.177103  -6.359162
-869.181494  -61.899517  -5042.933
 0.25000  -11.317077  -522.521047  -6.359162
-846.741273  -57.436489  -4582.833
 0.50000  -11.317077  -508.989840  -6.359162
-825.247014  -53.596505  -4154.868
 0.75000  -11.317077  -495.821200  -6.359162
-805.167529  -50.929154  -3763.991
 1.00000  -11.317077  -483.233228  -6.359162
-796.143851  -50.123504  -3416.583

  COMB DL-G2-1 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   4.108897   41.043683   5.961342
162.938133  62.464709  290.406519
 0.25000   4.108897   41.087459   5.961342
163.086174  56.161661  283.268450
 0.50000   4.108897   41.137892   5.961342
163.250586  50.073254  278.678161
 0.75000   4.108897   41.193909   5.961342
163.428748  44.062709  277.808907
 1.00000   4.108897   41.254278   5.961342
163.617956  38.530333  285.486412

  COMB DL-G2-1 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -3.736912  -109.534335  -0.524480
-294.988949  -5.548998  -1347.111
 0.25000  -3.736912  -109.442683  -0.524480
-294.811134  -4.968896  -1260.114
 0.50000  -3.736912  -109.352041  -0.524480
-294.640444  -4.445570  -1176.615
 0.75000  -3.736912  -109.263911  -0.524480
-294.479993  -3.933484  -1098.048
 1.00000  -3.736912  -109.179815  -0.524480
-294.332741  -3.451183  -1029.328

  COMB DL-G2-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   6.378445   58.383349   5.692580
272.911441  54.034272  613.468588
 0.25000   6.378445   58.387729   5.692580
272.926262  48.297713  596.336031
 0.50000   6.378445   58.392776   5.692580
272.942721  42.804843  585.774400
 0.75000   6.378445   58.398381   5.692580
272.960557  37.705180  599.863693
 1.00000   6.378445   58.404421   5.692580
272.979499  33.395144  657.263921
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD            >
                        1767

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DL-G2-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -4.876294  -322.093776  -2.077342
-463.847922  -26.067031  -3700.628
 0.25000  -4.876294  -322.084355  -2.077342
-463.830118  -23.833544  -3386.130
 0.50000  -4.876294  -322.075545  -2.077342
-463.813026  -21.858168  -3080.647
 0.75000  -4.876294  -322.066732  -2.077342
-463.796959  -21.025166  -2796.437
 1.00000  -4.876294  -322.058322  -2.077342
-463.782213  -20.701453  -2541.318

  COMB DL-G2-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.325931   97.423431   9.437969
436.732465  103.507602  762.064357
 0.25000   11.325931   97.427373   9.437969
436.745803  95.618802  744.985786
 0.50000   11.325931   97.431914   9.437969
436.760616  87.992877  736.044985
 0.75000   11.325931   97.436959   9.437969
436.776668  80.787722  753.007518
 1.00000   11.325931   97.442395   9.437969
436.793716  74.625490  814.252463

  COMB DL-G2-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.270159  -342.259047  -3.343279
-738.788166  -32.058703  -3886.281
 0.25000  -9.270159  -342.250798  -3.343279
-738.772142  -29.200057  -3582.659
 0.50000  -9.270159  -342.242640  -3.343279
-738.756760  -26.557110  -3298.987
 0.75000  -9.270159  -342.234708  -3.343279
-738.742299  -24.999842  -3061.766
 1.00000  -9.270159  -342.227139  -3.343279
-738.729028  -24.347750  -2856.248

  COMB DL-G2-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   13.789666   92.859264   8.572052
646.765455  88.634751  905.327605
 0.25000   13.789666   101.365283   8.572052
650.625845  81.992592  907.580352
 0.50000   13.789666   111.270270   8.572052
656.514954  75.567049  964.105657
 0.75000   13.789666   122.311425   8.572052
672.257296  69.469729  1039.731
 1.00000   13.789666   134.202012   8.572052
702.076920  64.460455  1145.153

  COMB DL-G2-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.299315  -684.879417  -6.199237
-809.174781  -76.873453  -6106.744
 0.25000  -11.299315  -663.470718  -6.199237
-784.251330  -71.544702  -5484.180
 0.50000  -11.299315  -642.227309  -6.199237
-780.146664  -66.566770  -4910.986
 0.75000  -11.299315  -621.525402  -6.199237
-778.115131  -63.050750  -4403.542
 1.00000  -11.299315  -601.685570  -6.199237
-777.840902  -60.606329  -3948.284

  COMB DL-G3-1 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   7.327059   16.403870   1.821604
620.571987  4.874584  418.894787
 0.25000   7.327059   18.874727   1.821604
616.646932  4.524565  411.160255
 0.50000   7.327059   29.662763   1.821604
612.256895  4.928670  505.187260
 0.75000   7.327059   41.777707   1.821604
607.866858  6.452228  612.730172
 1.00000   7.327059   54.776061   1.821604
603.476820  9.078064  727.201277
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD            >
                        1768

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DL-G3-1 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -6.221896  -646.676707  -5.632610
-355.123138  -81.651293  -4730.237
 0.25000  -6.221896  -617.698924  -5.632610
-355.588107  -77.053892  -4098.283
 0.50000  -6.221896  -588.805045  -5.632610
-355.588107  -72.947783  -3520.032
 0.75000  -6.221896  -560.540514  -5.632610
-355.588107  -69.968900  -2991.122
 1.00000  -6.221896  -533.386731  -5.632610
-355.588107  -67.851572  -2506.624

  COMB DL-G3-2 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   10.294158   34.070939   2.073657
737.530799  9.072619  715.783853
 0.25000   10.294158   39.830184   2.073657
737.049612  8.619916  703.561714
 0.50000   10.294158   52.766603   2.073657
736.563929  8.365538  807.522883
 0.75000   10.294158   67.284202   2.073657
736.078246  9.534074  944.363622
 1.00000   10.294158   82.874276   2.073657
735.592563  12.285234  1125.136

  COMB DL-G3-2 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.074999  -898.861812  -8.593158
-495.469376  -127.605404  -7126.794
 0.25000  -8.074999  -865.835156  -8.593158
-495.473899  -119.629811  -6234.166
 0.50000  -8.074999  -832.956978  -8.593158
-495.473899  -112.097745  -5417.276
 0.75000  -8.074999  -800.819821  -8.593158
-495.473899  -105.865985  -4673.216
 1.00000  -8.074999  -769.971006  -8.593158
-495.473899  -100.650973  -3986.872

  COMB DL-G3-3 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   11.778504   56.057646   4.800081
778.436441  31.083954  905.899930
 0.25000   11.778504   61.672591   4.800081
778.520710  27.840364  890.064494
 0.50000   11.778504   73.584176   4.800081
778.605275  24.805523  980.359313
 0.75000   11.778504   86.948703   4.800081
778.689839  23.362595  1101.627
 1.00000   11.778504  101.301552   4.800081
778.774404  23.936664  1266.568

  COMB DL-G3-3 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -9.341250  -920.782213  -7.411871
-663.700548  -105.927091  -7817.983
 0.25000  -9.341250  -890.569873  -7.411871
-663.699624  -99.142273  -6917.679
 0.50000  -9.341250  -860.486105  -7.411871
-663.699624  -92.772386  -6077.836
 0.75000  -9.341250  -831.097244  -7.411871
-663.699624  -88.370385  -5304.588
 1.00000  -9.341250  -802.883930  -7.411871
-663.699624  -86.035545  -4599.300

  COMB DL-G3-4 ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   14.028421   83.779287   8.607742
798.760424  81.266446  939.389597
 0.25000   14.028421   88.471361   8.607742
798.847332  74.412230  923.161184
 0.50000   14.028421   98.403157   8.607742
798.935444  67.786038  997.698744
 0.75000   14.028421   109.546307   8.607742
799.023555  62.562221  1099.824
 1.00000   14.028421   121.513540   8.607742
799.111666  59.228721  1242.823
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<            MOVING          LOAD            >
                        1769

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

  COMB DL-G3-4 ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -11.628459  -817.779293  -6.880874
-811.337636  -94.361205  -7102.467
 0.25000  -11.628459  -792.595046  -6.880874
-811.336441  -88.113621  -6319.581
 0.50000  -11.628459  -767.521014  -6.880874
-811.336441  -82.235771  -5608.799
 0.75000  -11.628459  -743.204147  -6.880874
-811.336441  -78.095682  -4956.638
 1.00000  -11.628459  -719.502833  -6.880874
-811.336441  -75.555766  -4373.177

  COMB     DB ------------------- MAX

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000   8.135750   91.234445   8.613381
621.617135  59.467760  740.839639
 0.25000   8.135750   92.359630   8.613381
621.617135  57.404383  718.614533
 0.50000   8.135750   99.272397   8.613381
621.617135  56.758222  696.434165
 0.75000   8.135750   110.538979   8.613381
621.617135  56.706658  778.809960
 1.00000   8.135750   124.937300   8.613381
621.617135  57.431024  1018.492

  COMB     DB ------------------- MIN

  REL DIST          P          V2          V3
    T          M2          M3
 0.00000  -8.006909  -728.270110  -8.053663
-675.385479  -69.189011  -3427.315
 0.25000  -8.006909  -700.293370  -8.053663
-653.148502  -63.191692  -2917.466
```

```
 0.50000    -8.006909  -672.405066    -8.053663
-646.970911   -57.950672   -2676.360
 0.75000    -8.006909  -645.056592    -8.053663
-646.970911   -54.868026   -2531.403
 1.00000    -8.006909  -618.855616    -8.053663
-646.970911   -53.216459   -2388.665

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   14.028421  107.535483  10.389803
798.760424  124.179715  939.389597
 0.25000   14.028421  111.465633  10.389803
798.847332  116.318989  923.631684
 0.50000   14.028421  118.482063  10.389803
798.935444  109.059689  997.698744
 0.75000   14.028421  126.306782  10.389803
799.023555  102.458222    1101.627
 1.00000   14.028421  134.733461  10.389803
799.111666   97.229140    1266.568

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.628459  -920.782213    -8.593158
-869.181494 -127.605404   -7817.983
 0.25000  -11.628459  -890.569873    -8.593158
-846.741273 -119.629811   -6917.679
 0.50000  -11.628459  -860.489605    -8.593158
-825.247014 -112.097745   -6077.836
 0.75000  -11.628459  -831.097244    -8.593158
-813.744441 -105.865985   -5304.588
 1.00000  -11.628459  -802.883930    -8.593158
-813.320560 -100.650973   -4599.300

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   14.028421  107.535483  10.389803
798.760424  124.179715  939.389597
 0.25000   14.028421  111.465633  10.389803
798.847332  116.318989  923.631684
 0.50000   14.028421  118.482063  10.389803
798.935444  109.059689  997.698744
 0.75000   14.028421  126.306782  10.389803
799.023555  102.458222    1101.627
 1.00000   14.028421  134.733461  10.389803
799.111666   97.229140    1266.568
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1770

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.628459  -920.782213    -8.593158
-869.181494 -127.605404   -7817.983
 0.25000  -11.628459  -890.569873    -8.593158
-846.741273 -119.629811   -6917.679
 0.50000  -11.628459  -860.489605    -8.593158
-825.247014 -112.097745   -6077.836
 0.75000  -11.628459  -831.097244    -8.593158
-813.744441 -105.865985   -5304.588
 1.00000  -11.628459  -802.883930    -8.593158
-813.320560 -100.650973   -4599.300

 COMB    DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   14.028421  107.535483  10.389803
798.760424  124.179715  939.389597
 0.25000   14.028421  111.465633  10.389803
798.847332  116.318989  923.631684
 0.50000   14.028421  118.482063  10.389803
798.935444  109.059689  997.698744
 0.75000   14.028421  126.306782  10.389803
799.023555  102.458222    1101.627
 1.00000   14.028421  134.733461  10.389803
799.111666   97.229140    1266.568

 COMB    DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.628459  -920.782213    -8.593158
-869.181494 -127.605404   -7817.983
 0.25000  -11.628459  -890.569873    -8.593158
-846.741273 -119.629811   -6917.679
 0.50000  -11.628459  -860.489605    -8.593158
-825.247014 -112.097745   -6077.836
 0.75000  -11.628459  -831.097244    -8.593158
-813.744441 -105.865985   -5304.588
 1.00000  -11.628459  -802.883930    -8.593158
-813.320560 -100.650973   -4599.300

 ELEM      150 ================== LENGTH
=    4.928504

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.860889   24.492946    5.145886
117.957393   31.892068  199.565021
 0.25000    3.860889   24.503595    5.145886
117.989824   32.181120  197.880308
 0.50000    3.860889   24.515093    5.145886
118.024125   32.549001  196.213291
 0.75000    3.860889   24.527720    5.145886
118.059986   33.045098  195.788463
 1.00000    3.860889   24.542316    5.145886
118.101827   33.641696  242.060607

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.799381  -52.276368   -1.838661
-315.135239   -9.004911  -359.329141
 0.25000   -3.799381  -52.261682   -1.838661
-315.095713  -11.126404  -382.836940
 0.50000   -3.799381  -52.248587   -1.838661
-315.061203  -14.416629  -406.840010
 0.75000   -3.799381  -52.235869   -1.838661
-315.030549  -18.560947  -431.476292
 1.00000   -3.799381  -52.223730   -1.838661
-315.014156  -23.379522  -456.612336

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.174057   37.948946   10.503750
183.510962   56.419966  375.936926
 0.25000    6.174057   37.959591   10.503750
183.543351   54.011259  371.875072
 0.50000    6.174057   37.971084   10.503750
183.577609   51.807651  368.451852
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1771

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000    6.174057   37.983705   10.503750
183.613427   49.820549  390.051137
 1.00000    6.174057   37.998294   10.503750
183.655210   48.071849  503.357833

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.081189  -119.699404   -1.631554
-547.372906   -9.791903  -788.332312
 0.25000   -6.081189  -119.684726   -1.631554
-547.333435   -13.413171  -818.819894
 0.50000   -6.081189  -119.671635   -1.631554
-547.298969   -22.212019  -850.033076
 0.75000   -6.081189  -119.658921   -1.631554
-547.268560   -32.667624  -882.365129
 1.00000   -6.081189  -119.646786   -1.631554
-547.252497   -43.914311  -915.398290

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.920073   36.455580   10.264741
193.418287   51.913665  533.555830
 0.25000    6.920073   36.465162   10.264741
193.447446   49.424148  523.403109
 0.50000    6.920073   36.475506   10.264741
193.478288   47.069741  580.189001
 0.75000    6.920073   36.486867   10.264741
193.510534   44.898689  704.746643
 1.00000    6.920073   36.499089   10.264741
193.548152   42.974943  917.786083

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.207556  -220.460092   -1.570804
-658.516148  -11.868767   -1360.419
 0.25000   -6.207556  -220.446879   -1.570804
-658.480611  -16.766841   -1372.615
 0.50000   -6.207556  -220.435097   -1.570804
-658.449582  -25.142453   -1385.420
 0.75000   -6.207556  -220.427653   -1.570804
-658.422159  -35.085634   -1399.480
 1.00000   -6.207556  -220.412731   -1.570804
-658.407627  -45.886309   -1414.051

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.611117   54.380316    8.675720
312.281131   45.806190  788.146499
 0.25000    7.611117   64.285821    8.675720
318.005915   43.660516  894.965957
 0.50000    7.611117   75.006318    8.675720
341.563935   43.630838   1051.699
 0.75000    7.611117   86.734802    8.675720
364.017175   44.266485   1263.696
 1.00000    7.611117  100.142160    8.675720
394.983278   46.190306   1543.078

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.871859  -410.896313   -4.752358
-674.884846  -28.203841   -1858.945
 0.25000   -6.871859  -397.372445   -4.752358
-646.635530  -30.656847   -1830.698
 0.50000   -6.871859  -385.038630   -4.752358
-627.636551  -36.382568   -1802.956
 0.75000   -6.871859  -373.075296   -4.752358
-624.785163  -43.494657   -1776.267
 1.00000   -6.871859  -361.685240   -4.752358
-624.785163  -51.343736   -1750.005

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.109593   11.797040    5.280482
59.636814   22.209101  212.994375
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1772

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000    2.109593   11.914149    5.280482
59.993212   19.127088  209.456661
 0.50000    2.109593   12.040582    5.280482
60.370169   16.152767  215.085779
 0.75000    2.109593   12.179437    5.280482
60.764284   13.297309  279.229848
 1.00000    2.109593   12.339929    5.280482
61.224056   10.534648  371.094020

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.086517  -95.848070   -0.453266
-248.087140   -2.273950  -584.455133
 0.25000   -2.086517  -95.686582   -0.453266
-247.652803   -3.083112  -584.299357
 0.50000   -2.086517  -95.542576   -0.453266
-247.273557   -8.288798  -584.447829
 0.75000   -2.086517  -95.402710   -0.453266
-246.938388  -14.228668  -584.907649
 1.00000   -2.086517  -95.269218   -0.453266
-246.760779  -20.511820  -585.545800

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.720327   18.633187    5.147331
126.700645   20.791935  483.511586
 0.25000    3.720327   18.643834    5.147331
126.733045   17.943997  494.175542
 0.50000    3.720327   18.655328    5.147331
126.767314   15.174608  592.920479
 0.75000    3.720327   18.667951    5.147331
126.803143   12.519232  788.144082
 1.00000    3.720327   18.682541    5.147331
126.844940   11.395538   1033.607

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.856448  -247.836072   -1.971649
-407.124533  -12.638840   -1373.036
 0.25000   -2.856448  -247.821391   -1.971649
-407.085048  -12.967622   -1345.999
 0.50000   -2.856448  -247.808300   -1.971649
-407.050571  -16.822844   -1319.060
 0.75000   -2.856448  -247.795585   -1.971649
-407.020101  -21.727980   -1292.635
 1.00000   -2.856448  -247.783449   -1.971649
-407.003955  -26.975811   -1266.299

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.258907   34.611132    9.184881
200.738552   44.463393  598.005035
 0.25000    6.258907   34.620714    9.184881
200.767712   41.393058  605.836842
 0.50000    6.258907   34.631058    9.184881
200.798554   38.378165  692.599802
 0.75000    6.258907   34.642419    9.184881
200.830800   35.458872  866.238152
 1.00000    6.258907   34.655551    9.184881
200.868417   33.912217   1130.741

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.446071  -269.848175   -2.367748
-614.915648  -15.404949   -1553.913
 0.25000   -5.446071  -269.834963   -2.367748
-614.880111  -16.902703   -1545.953
 0.50000   -5.446071  -269.823180   -2.367748
-614.849082  -24.893826   -1538.552
 0.75000   -5.446071  -269.811737   -2.367748
-614.821659  -34.047559   -1532.073
 1.00000   -5.446071  -269.800815   -2.367748
-614.807127  -43.742584   -1526.052
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1773

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.697642   57.562726    7.740135
404.885076   39.050956  892.579812
 0.25000    7.697642   72.653949    7.740135
404.885076   38.480650   1062.468
 0.50000    7.697642   89.047120    7.740135
404.885076   39.590398   1277.753
 0.75000    7.697642  106.869713    7.740135
429.557270   41.208653   1527.542
 1.00000    7.697642  126.939469    7.740135
454.804773   44.061670   1833.162

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.967567  -507.401601   -5.979006
-580.402404  -34.657710   -2088.583
 0.25000   -6.967567  -487.087280   -5.979006
-580.402404  -34.711726   -2032.987
 0.50000   -6.967567  -467.975613   -5.979006
-580.402404  -40.120675   -1978.116
 0.75000   -6.967567  -449.471083   -5.979006
-580.402404  -46.501264   -1924.024
 1.00000   -6.967567  -431.911960   -5.979006
-580.402404  -53.336669   -1870.304

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.343422   39.409856    0.312657
505.576207    9.147080  621.593233
 0.25000    4.343422   58.405457    0.312657
505.576207   12.612698  864.400682
 0.50000    4.343422   79.206730    0.312657
505.576207   17.175078   1080.647
 0.75000    4.343422  101.554283    0.312657
505.576207   22.696372   1268.151
 1.00000    4.343422  125.929939    0.312657
505.576207   29.074457   1429.382

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.215030  -427.408522   -6.882366
-146.258135  -36.459634   -1262.817
 0.25000   -4.215030  -402.549019   -6.882366
-146.258135  -34.478131   -1179.875
 0.50000   -4.215030  -377.650540   -6.882366
-146.258135  -32.532919   -1097.036
 0.75000   -4.215030  -353.624127   -6.882366
-146.258135  -30.633581   -1014.625
 1.00000   -4.215030  -330.985571   -6.882366
-146.258135  -28.837996  -932.214501

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.018689   56.372269    0.452840
607.097839   11.023694  932.293831
 0.25000    6.018689   79.176346    0.452840
607.097839   15.081393   1238.892
 0.50000    6.018689  104.081899    0.452840
607.097839   20.469370   1553.440
 0.75000    6.018689  130.937501    0.452840
607.097839   26.907388   1862.983
 1.00000    6.018689  160.501832    0.452840
607.097839   35.798812   2163.511

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -5.439447  -613.209628  -10.234632
-268.954669   -54.082396   -2030.932
 0.25000   -5.439447  -583.125546  -10.234632
-268.954669   -49.386932   -1915.216
 0.50000   -5.439447  -553.540984  -10.234632
-268.954669   -45.513215   -1799.723
 0.75000   -5.439447  -524.966609  -10.234632
-268.954669   -42.018183   -1684.658
 1.00000   -5.439447  -497.975948  -10.234632
-268.954669   -39.333409   -1569.613
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1774

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.926164   54.737307    3.019204
574.429859   17.926423  1017.370
 0.25000    6.926164   75.661678    3.019204
574.429859   20.152518   1281.795
 0.50000    6.926164   98.510909    3.019204
574.429859   23.603898   1591.959
 0.75000    6.926164  123.159512    3.019204
574.429859   28.044182   1951.191
 1.00000    6.926164  150.316583    3.019204
574.429859   34.429470   2307.157

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.066595  -645.367702   -8.490161
-429.461965  -46.960198   -2387.865
 0.25000   -6.066595  -617.738050   -8.490161
-429.461965  -45.671328   -2277.838
 0.50000   -6.066595  -590.617020   -8.490161
-429.461965  -45.476846   -2168.019
 0.75000   -6.066595  -564.419640   -8.490161
-429.461965  -45.850105   -2058.819
 1.00000   -6.066595  -539.668029   -8.490161
-429.461965  -46.535260   -1949.652

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.016430   58.879050    6.874149
542.774007   36.787371  987.875472
 0.25000    8.016430   76.324875    6.874149
542.774007   37.184630   1206.164
 0.50000    8.016430   95.375451    6.874149
542.774007   38.650771   1462.926
 0.75000    8.016430  115.926600    6.874149
542.774007   40.994077   1763.692
 1.00000    8.016430  138.569965    6.874149
542.774007   45.009414   2104.983

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -7.265705  -583.582489   -7.513669
-561.998940   -42.061785   -2294.091
 0.25000   -7.265705  -560.545251   -7.513669
-561.998940   -40.590676   -2213.039
 0.50000   -7.265705  -537.933750   -7.513669
-561.998940   -45.002677   -2132.587
 0.75000   -7.265705  -516.092241   -7.513669
-561.998940   -50.299556   -2053.007
 1.00000   -7.265705  -495.455904   -7.513669
-561.998940   -55.947775   -1973.686

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.548298   31.201451    6.379589
156.332177   54.234144  283.520476
 0.25000    7.548298   31.206483    6.379589
156.347787   50.997717  305.189058
 0.50000    7.548298   31.212110    6.379589
156.365028   48.424224  339.524507
 0.75000    7.548298   31.218216    6.379589
156.383576   46.709790  388.926170
 1.00000    7.548298   31.224685    6.379589
156.403110   46.399691  457.672886

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -6.149602  -68.369174   -2.414164
-429.681387  -13.306667  -573.279905
 0.25000   -6.149602  -68.360245   -2.414164
-429.664273  -14.127945  -557.826301
 0.50000   -6.149602  -68.351526   -2.414164
-429.647876  -16.041841  -564.652054
 0.75000   -6.149602  -68.343143   -2.414164
-429.632575  -19.096476  -586.387355
 1.00000   -6.149602  -68.335242   -2.414164
-429.618712  -23.761274  -615.428344
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1775

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   12.026197   47.163237   14.688341
237.874075   98.547234  516.730565
 0.25000   12.026197   47.182566   14.688341
237.889663   87.061327  553.491660
 0.50000   12.026197   47.173890   14.688341
237.906879   77.753044  615.440070
 0.75000   12.026197   47.179993   14.688341
237.925400   70.601173  714.612005
 1.00000   12.026197   47.186458   14.688341
237.944905   66.152033  859.259280

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -10.100165  -154.923787   -2.622550
-741.693692  -16.569484   -1317.068
 0.25000  -10.100165  -154.914860   -2.622550
-741.676614  -18.033454   -1238.806
 0.50000  -10.100165  -154.906143   -2.622550
-741.660251  -23.928763   -1201.002
 0.75000  -10.100165  -154.897762   -2.622550
-741.644982  -32.348726   -1196.849
 1.00000  -10.100165  -154.889862   -2.622550
-741.631150  -43.613419   -1222.163

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   13.446969   49.121660   14.085658
250.900335   88.104740  758.756540
 0.25000   13.446969   49.266479   14.085658
251.349112   77.785883  812.715038
 0.50000   13.446969   49.428424   14.085658
251.844743   69.606128  931.211268
 0.75000   13.446969   49.624178   14.085658
252.377971   63.997448   1104.793
 1.00000   13.446969   49.790390   14.085658
252.939502   60.438066   1340.734

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -10.464465  -296.430472   -2.693370
-859.562088  -18.353875   -2442.493
 0.25000  -10.464465  -296.173387   -2.693370
-859.070497  -20.576865   -2231.004
 0.50000  -10.464465  -295.922159   -2.693370
-858.599486  -26.719710   -2075.493
 0.75000  -10.464465  -295.680991   -2.693370
-858.159975  -35.503310   -1971.760
 1.00000  -10.464465  -295.453508   -2.693370
-857.761853  -46.746616   -1916.266

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   14.628856   66.614065   11.907673
390.783722   76.759603  1039.214
 0.25000   14.628856   73.780337   11.907673
411.092371   68.365451  1144.839
 0.50000   14.628856   81.797049   11.907673
433.535736   63.317343  1310.796
 0.75000   14.628856   90.494455   11.907673
457.684389   60.654859   1530.963
 1.00000   14.628856   99.685849   11.907673
482.995628   60.788076   1807.160

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000  -11.116141  -500.918825   -6.891483
-856.477521  -50.092765   -4116.149
 0.25000  -11.116141  -487.815519   -6.891483
-835.688449  -47.383023   -3057.102
 0.50000  -11.116141  -474.994537   -6.891483
-815.801469  -48.766382   -2766.387
 0.75000  -11.116141  -462.656691   -6.891483
-797.351624  -52.966619   -2539.431
 1.00000  -11.116141  -451.006482   -6.891483
-791.137460   -59.697954   -2374.082
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 1776

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    4.363173   14.029090    8.248807
 73.710826   39.184866  285.785332
 0.25000    4.363173   14.079381    8.248807
 73.866708   31.030623  304.471266
 0.50000    4.363173   14.135620    8.248807
 74.038864   24.344508  342.119041
 0.75000    4.363173   14.196652    8.248807
 74.224079   19.046741  412.159553
 1.00000    4.363173   14.261298    8.248807
 74.419127   14.912858  507.380220

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.706336  -121.177217   -0.662679
-322.284776   -3.630997   -1028.881
 0.25000   -3.706336  -121.087946   -0.662679
-322.113997   -4.016977  -931.852528
```

```
 0.50000    -3.706336  -121.000778    -0.662679
-321.950367    -7.816032  -852.429639
 0.75000    -3.706336  -120.916965    -0.662679
-321.797677   -13.089349  -795.401015
 1.00000    -3.706336  -120.837973    -0.662679
-321.659363   -19.448978  -766.557663

 COMB DL-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     7.232674   26.687172    7.701131
142.990018   33.742489  657.652499
 0.25000     7.232673   26.692203    7.701131
143.005623   26.902916  696.711069
 0.50000     7.232673   26.697829    7.701131
143.022857   21.712738  805.238965
 0.75000     7.232673   26.703935    7.701131
143.041399   18.354292  977.017789
 1.00000     7.232673   26.710403    7.701131
143.060925   16.607701   1203.330

 COMB DL-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -4.992328  -322.018582   -2.843585
-484.531564  -20.070976   -2540.745
 0.25000    -4.992328  -322.009653   -2.843585
-484.514459  -18.625878   -2263.126
 0.50000    -4.992328  -322.000935   -2.843585
-484.498071  -27.486515   -2226.797
 0.75000    -4.992328  -321.992552   -2.843585
-484.482778  -24.504126   -1837.398
 1.00000    -4.992328  -321.984652   -2.843585
-484.468923   -29.623226   -1699.723

 COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    12.127028   46.521264   13.249175
242.272866   75.552729  815.030768
 0.25000    12.127028   46.525792   13.249175
242.286910   64.923038  866.377055
 0.50000    12.127028   46.530856   13.249175
242.302421   56.541607  991.074306
 0.75000    12.127028   46.536351   13.249175
242.319108   50.622385   1184.894
 1.00000    12.127028   46.542172   13.249175
242.336682   47.291413   1450.622

 COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -9.224014  -351.270143   -3.427786
-774.545739  -24.240186   -2855.808
 0.25000    -9.224014  -351.262107   -3.427786
-774.530345  -24.360748   -2598.650
 0.50000    -9.224014  -351.254261   -3.427786
-774.515595  -29.050625   -2377.703
 0.75000    -9.224014  -351.246716   -3.427786
-774.501831  -36.614899   -2219.440
 1.00000    -9.224014  -351.239606   -3.427786
-774.489362  -48.391853   -2118.252
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1777

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    14.413924   68.457606   11.152654
503.825268   66.022764   1145.462
 0.25000    14.413924   78.938063   11.152654
510.399397   59.198249   1280.377
 0.50000    14.413924   90.667534   11.152654
522.421776   54.961215   1471.792
 0.75000    14.413924  103.387542   11.152654
551.895711   53.285594   1711.896
 1.00000    14.413924  116.775949   11.152654
580.707151   54.169050   2004.805

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -11.044426  -607.864551   -8.000018
-750.050346  -60.916685   -3948.509
 0.25000   -11.044426  -587.789931   -8.000018
-731.142657   -57.099788   -3517.656
 0.50000   -11.044426  -568.093161   -8.000018
-729.627605   -57.564550   -3141.617
 0.75000   -11.044426  -549.103222   -8.000018
-729.554479   -60.804373   -2841.148
 1.00000   -11.044426  -531.126075   -8.000018
-729.556568   -66.189835   -2611.528

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     7.212661   42.986319    0.460349
659.383791   10.517436  726.533353
 0.25000     7.212661   55.382124    0.460349
654.992945   12.766747  860.031857
 0.50000     7.212661   69.287356    0.460349
650.602100   16.295785  998.060030
 0.75000     7.212661   84.322929    0.460349
646.211254   21.041508   1135.298
 1.00000     7.212661  100.052270    0.460349
641.820409   26.639278   1271.884

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -5.811906  -488.094935   -8.367431
-183.385624  -28.116650   -2507.791
 0.25000    -5.811906  -461.993585   -8.367431
-183.385624  -62.347841   -2154.569
 0.50000    -5.811906  -436.255703   -8.367431
-183.385624  -56.764032   -1840.977
 0.75000    -5.811906  -411.304651   -8.367431
-183.385624  -51.864643   -1565.751
 1.00000    -5.811906  -387.623372   -8.367431
-183.385624  -47.559345   -1327.773

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    10.430156   63.690019    0.636135
768.753560   14.008531   1124.461
 0.25000    10.430156   78.270635    0.636135
768.267788   16.643932   1292.146
 0.50000    10.430156   94.603202    0.636135
767.782015   20.694316   1491.475
 0.75000    10.430156  112.281175    0.636135
767.296243   26.431318   1724.204
 1.00000    10.430156  130.801586    0.636135
766.810470   34.339897   1978.114

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -7.652944  -711.036335   -12.923606
-304.509018  -101.354572   -3988.118
 0.25000    -7.652944  -681.033809   -12.923606
-304.509018   -90.052516   -3456.250
 0.50000    -7.652944  -651.482929   -12.923606
-304.509018   -80.201140   -2987.221
 0.75000    -7.652944  -622.871800   -12.923606
-304.509018   -71.669842   -2577.955
 1.00000    -7.652944  -595.716055   -12.923606
-304.509018   -64.603429   -2229.872
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1778

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    12.363588   64.455702    4.460572
730.340349   25.579285   1266.170
 0.25000    12.363588   77.847885    4.460572
730.424929   24.819330   1433.547
 0.50000    12.363588   92.846700    4.460572
730.509509   26.110615   1660.202
 0.75000    12.363588  109.081269    4.460572
730.594090   29.726168   1937.229
 1.00000    12.363588  126.094123    4.460572
730.678670   35.340147   2252.533

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -9.068412  -761.606400   -10.951348
-511.048067  -86.247688   -4600.049
 0.25000    -9.068412  -734.128222   -10.951348
-511.048067  -78.605015   -4011.454
 0.50000    -9.068412  -707.068648   -10.951348
-511.048067  -73.232649   -3496.213
 0.75000    -9.068412  -680.874014   -10.951348
-511.048067  -70.083020   -3054.479
 1.00000    -9.068412  -656.017405   -10.951348
-511.048067  -68.112901   -2691.032

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    14.591115   70.068401   10.443744
691.185717   61.187398   1242.801
 0.25000    14.591115   81.233973   10.443744
691.273844   54.409425   1395.165
 0.50000    14.591115   93.738561   10.443744
691.361972   50.639707   1606.642
 0.75000    14.591115  107.273462   10.443744
691.450099   49.842846   1872.745
 1.00000    14.591115  121.457307   10.443744
691.538227   51.815582   2192.190

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -11.285559  -694.234295   -9.774280
-702.993850  -76.094492   -4373.705
 0.25000   -11.285559  -671.334259   -9.774280
-702.993850  -69.907641   -3860.217
 0.50000   -11.285559  -648.777153   -9.774280
-702.993850  -68.561221   -3419.054
 0.75000   -11.285559  -626.941177   -9.774280
-702.993850  -70.157260   -3049.937
 1.00000   -11.285559  -606.220650   -9.774280
-702.993850  -73.862055   -2759.325

 COMB     DB -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     8.016430   58.879050   10.503750
607.097839   56.419966  1017.370
 0.25000     8.016430   79.176346   10.503750
607.097839   54.011259   1281.795
 0.50000     8.016430  104.081899   10.503750
607.097839   51.807651   1591.959
 0.75000     8.016430  130.937501   10.503750
607.097839   49.820549   1951.191
 1.00000     8.016430  160.501832   10.503750
607.097839   48.071849   2307.157

 COMB     DB -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -7.265705  -645.367702   -10.234632
-674.884846  -54.082396   -2387.865
 0.25000    -7.265705  -617.738050   -10.234632
-658.480611  -49.386932   -2277.838
 0.50000    -7.265705  -590.617020   -10.234632
-658.449582  -45.513215   -2168.019
 0.75000    -7.265705  -564.419640   -10.234632
-658.422159  -50.295556   -2058.819
 1.00000    -7.265705  -539.668029   -10.234632
-658.407627   -55.947775   -1973.686
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1779

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB     DL -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    14.628856   70.068401   14.688341
768.753560   98.547234   1266.170
 0.25000    14.628856   81.233973   14.688341
768.267788   87.061327   1433.547
 0.50000    14.628856   94.603202   14.688341
767.782015   77.753044   1660.202
 0.75000    14.628856  112.281175   14.688341
767.296243   70.601173   1937.229
 1.00000    14.628856  130.801586   14.688341
766.810470   66.152033   2252.533

 COMB     DL -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -11.285559  -761.606400   -12.923606
-859.562088  -101.354572   -4600.049
 0.25000   -11.285559  -734.128222   -12.923606
-859.070497   -90.052516   -4011.454
 0.50000   -11.285559  -707.068648   -12.923606
-858.599486   -80.201140   -3496.213
 0.75000   -11.285559  -680.874014   -12.923606
-858.159975   -71.669842   -3054.479
 1.00000   -11.285559  -656.017405   -12.923606
-857.761853   -73.862055   -2759.325

 COMB     CAR -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    14.628856   70.068401   14.688341
768.753560   98.547234   1266.170
 0.25000    14.628856   81.233973   14.688341
768.267788   87.061327   1433.547
 0.50000    14.628856  104.081899   14.688341
767.782015   77.753044   1660.202
 0.75000    14.628856  130.937501   14.688341
767.296243   70.601173   1951.191
 1.00000    14.628856  160.501832   14.688341
766.810470   66.152033   2307.157

 COMB     CAR -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -11.285559  -761.606400   -12.923606
-859.562088  -101.354572   -4600.049
 0.25000   -11.285559  -734.128222   -12.923606
-859.070497   -90.052516   -4011.454
 0.50000   -11.285559  -707.068648   -12.923606
-858.599486   -80.201140   -3496.213
 0.75000   -11.285559  -680.874014   -12.923606
-858.159975   -71.669842   -3054.479
 1.00000   -11.285559  -656.017405   -12.923606
-857.761853   -73.862055   -2759.325

 COMB DESIGN -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    14.628856   70.068401   14.688341
768.753560   98.547234   1266.170
 0.25000    14.628856   81.233973   14.688341
768.267788   87.061327   1433.547
 0.50000    14.628856  104.081899   14.688341
767.782015   77.753044   1660.202
 0.75000    14.628856  130.937501   14.688341
767.296243   70.601173   1951.191
 1.00000    14.628856  160.501832   14.688341
766.810470   66.152033   2307.157

 COMB DESIGN -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -11.285559  -761.606400   -12.923606
-859.562088  -101.354572   -4600.049
 0.25000   -11.285559  -734.128222   -12.923606
-859.070497   -90.052516   -4011.454
 0.50000   -11.285559  -707.068648   -12.923606
-858.599486   -80.201140   -3496.213
 0.75000   -11.285559  -680.874014   -12.923606
-858.159975   -71.669842   -3054.479
 1.00000   -11.285559  -656.017405   -12.923606
-857.761853   -73.862055   -2759.325
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1780

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      151 ================== LENGTH
=     4.928619

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     3.530380    9.880260    5.572863
58.730683   33.211358  243.341172
 0.25000     3.530380    9.891670    5.572863
58.762083   31.579232  295.727982
 0.50000     3.530380    9.903970    5.572863
58.795633   29.958709  351.311992
 0.75000     3.530380    9.916970    5.572863
58.830921   28.381193  409.233579
 1.00000     3.530380    9.931837    5.572863
58.872308   26.866114  468.756281

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -3.439359  -52.933132   -0.524208
-298.729816  -22.817646  -457.015692
 0.25000    -3.439359  -52.918123   -0.524208
-298.690535  -26.291510  -463.394656
 0.50000    -3.439359  -52.904759   -0.524208
-298.656459  -30.409975  -469.955397
 0.75000    -3.439359  -52.891853   -0.524208
-298.629865  -35.155260  -476.837495
 1.00000    -3.439359  -52.879615   -0.524208
-298.608283   -40.436287  -483.737808

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     5.689908   13.826873    9.405178
85.438790   47.374246  505.552508
 0.25000     5.689908   13.838279    9.405178
85.470144   43.898983  614.488358
 0.50000     5.689908   13.850573    9.405178
85.503648   40.491505  731.427470
 0.75000     5.689908   13.863569    9.405178
85.538888   37.218267  855.568320
 1.00000     5.689908   13.878427    9.405178
85.580215   34.097089  985.823465

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -5.506383  -117.773750   -0.838022
-519.031425   -42.806689  -916.001934
 0.25000    -5.506383  -117.758750   -0.838022
-518.992201   -46.587829  -917.526137
 0.50000    -5.506383  -117.745391   -0.838022
-518.958170   -55.383001  -919.497761
 0.75000    -5.506383  -117.732489   -0.838022
-518.931813   -63.277661  -921.732653
 1.00000    -5.506383  -117.720256   -0.838022
-518.910264   -72.047208  -924.107638

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     6.997809   16.576473    8.920820
80.302703   42.139497  920.243420
 0.25000     6.997809   16.586739    8.920820
80.330932   38.741441   1086.526
 0.50000     6.997809   16.597805    8.920820
80.361096   35.742477   1274.838
 0.75000     6.997809   16.609502    8.920820
80.392823   33.321716   1482.517
 1.00000     6.997809   16.622876    8.920820
80.430031   30.992215   1704.268

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -5.641079  -208.208985   -1.107061
-619.228866  -44.340602   -1414.637
 0.25000    -5.641079  -208.195483   -1.107061
-619.193551   -49.345977   -1396.777
 0.50000    -5.641079  -208.183459   -1.107061
-619.162914   -55.500872   -1379.328
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1781

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000    -5.641079  -208.171846   -1.107061
-619.139139   -62.787112   -1362.083
 1.00000    -5.641079  -208.160635   -1.107061
-619.119737   -71.052054   -1345.016

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     7.635584   54.966566    7.579659
221.570098   45.938992   1544.866
 0.25000     7.635584   65.587773    7.579659
238.716840   45.025147   1779.664
 0.50000     7.635584   77.073328    7.579659
261.392870   44.660516   2026.348
 0.75000     7.635584   89.236374    7.579659
284.398744   45.159282   2284.713
 1.00000     7.635584  102.856141    7.579659
318.725281   45.912274   2546.954

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -6.197452  -379.106755   -3.874095
-627.898762   -50.361139   -1750.313
 0.25000    -6.197452  -365.338834   -3.874095
-601.178089   -53.271233   -1707.276
 0.50000    -6.197452  -352.806376   -3.874095
-582.937611   -57.145583   -1664.672
 0.75000    -6.197452  -340.716457   -3.874095
-564.633752   -61.959260   -1622.245
 1.00000    -6.197452  -329.277859   -3.874095
-563.693658   -67.598302   -1579.976

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     2.286989    4.611019    3.542366
21.095301   10.236254  371.979067
 0.25000     2.286989    4.736494    3.542366
21.440329    8.389950  445.001306
 0.50000     2.286989    4.871746    3.542366
21.808995    6.719436  526.340704
 0.75000     2.286989    5.014712    3.542366
22.196770    5.314290  614.196671
 1.00000     2.286989    5.178174    3.542366
22.651529    4.111465  707.156106

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -1.892133   -90.220027   -0.271915
-234.760145   -19.854188   -585.715770
 0.25000    -1.892133   -90.054995   -0.271915
-234.328521   -21.765154   -574.486386
 0.50000    -1.892133   -89.908034   -0.271915
-233.954062   -24.026680   -563.266172
 0.75000    -1.892133   -89.766107   -0.271915
-233.663476   -26.793912   -552.126267
 1.00000    -1.892133   -89.631525   -0.271915
-233.426350   -29.846569   -541.008606

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     4.340834   18.582374    3.391863
85.320342   11.167584   1034.816
 0.25000     4.340834   18.594381    3.391863
85.351709   10.226297   1170.061
 0.50000     4.340834   18.606676    3.391863
85.385224    9.700493   1340.806
 0.75000     4.340834   18.619673    3.391863
85.420476    9.960708   1547.877
 1.00000     4.340834   18.634533    3.391863
85.461818   10.333398   1780.244

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -2.578533  -226.246892   -1.523333
-374.609291   -26.118061   -1266.439
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1782

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000    -2.578533  -226.231889   -1.523333
-374.570052   -27.085038   -1228.724
 0.50000    -2.578533  -226.218529   -1.523333
-374.536010   -28.578051   -1191.017
 0.75000    -2.578533  -226.205627   -1.523333
-374.509593   -30.501228   -1153.385
 1.00000    -2.578533  -226.193392   -1.523333
-374.488036   -33.108186   -1115.837

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     6.575576   22.684845    7.331812
117.240792   33.384337   1132.837
 0.25000     6.575576   22.695111    7.331812
117.269021   30.922684   1300.564
 0.50000     6.575576   22.706177    7.331812
117.299185   28.796212   1502.876
 0.75000     6.575576   22.717874    7.331812
117.330912   27.453721   1740.315
 1.00000     6.575576   22.731249    7.331812
117.368120   26.203529   2002.055

 COMB DB-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -4.922102  -250.307594   -1.747847
-572.583740   -42.487536   -1526.469
 0.25000    -4.922102  -250.294092   -1.747847
-572.548425   -46.158758   -1495.484
 0.50000    -4.922102  -250.282068   -1.747847
-572.517788   -50.747980   -1464.630
 0.75000    -4.922102  -250.270456   -1.747847
-572.494012   -56.259021   -1433.836
 1.00000    -4.922102  -250.259444   -1.747847
-572.474611   -62.557014   -1403.323

 COMB DB-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     7.676535   73.096062    6.250138
322.360493   44.091734   1834.191
 0.25000     7.676535   89.294696    6.250138
322.360493   44.197173   2108.159
 0.50000     7.676535  106.886444    6.250138
332.903653   45.075353   2383.049
 0.75000     7.676535  125.563027    6.250138
359.070399   47.126343   2658.686
 1.00000     7.676535  145.873213    6.250138
382.400112   49.626957   2928.528

 COMB DB-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -6.270396  -462.623181   -5.461769
-514.340613   -52.155575   -1870.366
 0.25000    -6.270396  -442.054816   -5.461769
-501.617807   -54.038581   -1812.418
 0.50000    -6.270396  -422.749006   -5.461769
-501.617807   -56.284728   -1754.739
 0.75000    -6.270396  -404.152512   -5.461769
-501.617807   -59.305484   -1697.132
 1.00000    -6.270396  -386.611822   -5.461769
-501.617807   -62.980166   -1639.764

 COMB DB-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000     3.911527   84.771996    0.298041
488.643965   29.803337   1427.746
 0.25000     3.911527  105.203655    0.298041
488.643965   33.112056   1617.391
 0.50000     3.911527  127.607142    0.298041
488.643965   37.418110   1777.661
 0.75000     3.911527  151.509989    0.298041
488.643965   42.673472   1907.852
 1.00000     3.911527  175.979900    0.298041
488.643965   48.818097   2010.494
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                1783

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    -3.770046  -376.930931   -6.954147
-60.209390   -29.253945   -931.685556
 0.25000    -3.770046  -352.052493   -6.954147
-60.209390   -26.706787   -879.817330
```

```
 0.50000    -3.770046  -327.187009    -6.954147
-60.209390   -24.168189  -828.221684
 0.75000    -3.770046  -303.302769    -6.954147
-60.209390   -21.631396  -776.635252
 1.00000    -3.770046  -280.923614    -6.954147
-60.209390   -19.098371  -725.048849

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.818889   111.520075    0.484882
608.402534   36.865941    2161.947
 0.25000    5.818889   136.036151    0.484882
608.402534   41.533940    2423.547
 0.50000    5.818889   162.831453    0.484882
608.402534   47.396149    2670.515
 0.75000    5.818889   191.380618    0.484882
608.402534   54.764984    2907.525
 1.00000    5.818889   221.134059    0.484882
608.402534   63.194349    3130.514

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.906598  -544.110196   -9.249733
-160.242586  -40.087391   -1568.989
 0.25000   -4.906598  -513.896380   -9.249733
-160.242586  -36.587372   -1489.385
 0.50000   -4.906598  -484.252575   -9.249733
-160.242586  -33.107999   -1410.084
 0.75000   -4.906598  -455.177924   -9.249733
-160.242586  -29.639271   -1330.803
 1.00000   -4.906598  -428.993724   -9.249733
-160.242586  -26.196935   -1251.523

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.107304   103.075333    2.088761
531.072075   35.058032    2306.396
 0.25000    7.107304   125.572135    2.088761
531.072075   38.211054    2610.615
 0.50000    7.107304   150.152453    2.088761
531.072075   42.574897    2910.892
 0.75000    7.107304   176.338016    2.088761
531.072075   48.749276    3206.929
 1.00000    7.107304   203.676845    2.088761
531.072075   55.853216    3491.764

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.430078  -576.508084   -8.202499
-320.834147  -46.356483   -1949.193
 0.25000   -5.430078  -548.749541   -8.202499
-320.834147  -43.085369   -1864.025
 0.50000   -5.430078  -521.565056   -8.202499
-320.834147  -41.773225   -1779.132
 0.75000   -5.430078  -495.431569   -8.202499
-320.834147  -39.973682   -1694.261
 1.00000   -5.430078  -470.880875   -8.202499
-320.834147  -38.471442   -1609.440

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.963467   89.573272    5.217481
469.644850   45.435937    2105.178
 0.25000    7.963467   108.330173    5.217481
469.644850   46.392642    2401.720
 0.50000    7.963467   128.823958    5.217481
469.644850   48.575033    2697.285
 0.75000    7.963467   150.655992    5.217481
469.644850   52.181888    2992.129
 1.00000    7.963467   173.451172    5.217481
469.644850   56.593610    3279.668
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1784

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.527157  -525.382319   -7.129403
-460.818770  -55.359784   -1973.517
 0.25000   -6.527157  -502.237291   -7.129403
-460.818770  -55.552286   -1902.368
 0.50000   -6.527157  -479.572582   -7.129403
-460.818770  -56.392691   -1831.454
 0.75000   -6.527157  -457.784063   -7.129403
-460.818770  -57.872781   -1760.668
 1.00000   -6.527157  -437.314986   -7.129403
-460.818770  -59.915941   -1689.999

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.483585   13.267092    7.629385
79.067818   46.134672   459.518245
 0.25000    7.483585   13.272578    7.629385
79.083758   46.232219   527.116110
 0.50000    7.483585   13.278668    7.629385
79.101292   39.270217   596.873690
 0.75000    7.483585   13.285225    7.629385
79.120089   36.874056   666.924059
 1.00000    7.483585   13.292111    7.629385
79.139765   34.979083   737.399903

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.850215   -69.091440   -0.915542
-396.469450  -22.957855   -616.008618
 0.25000   -5.850215   -69.082725   -0.915542
-396.452536  -26.863785  -623.048342
 0.50000   -5.850215   -69.074249   -0.915542
-396.436380  -31.863251  -630.387582
 0.75000   -5.850215   -69.066156   -0.915542
-396.421389  -37.765931  -637.772373
 1.00000   -5.850215   -69.058574   -0.915542
-396.407921  -44.353478  -645.155880

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   12.114495   18.611382   13.354538
111.349363   65.798786   862.323881
 0.25000   12.114495   18.616866   13.354538
111.365277   58.834613    1006.813
 0.50000   12.114495   18.622953   13.354538
111.382785   53.147008    1156.201
 0.75000   12.114495   18.629506   13.354538
111.401554   48.438155    1308.514
 1.00000   12.114495   18.636389   13.354538
111.421200   44.532230    1462.191

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -9.616164  -153.865794   -1.320245
-681.603105  -41.920060   -1222.946
 0.25000   -9.616164  -153.857082   -1.320245
-681.586226  -48.875267   -1220.976
 0.50000   -9.616164  -153.848609   -1.320245
-681.570104  -57.613836   -1221.501
 0.75000   -9.616164  -153.840518   -1.320245
-681.555146  -67.998587   -1222.211
 1.00000   -9.616164  -153.832939   -1.320245
-681.541709  -79.533075   -1222.924

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   14.092126   23.228599   12.365341
114.852880   59.589691   1343.975
 0.25000   14.092126   23.386514   12.365341
115.311033   53.468379   1565.055
 0.50000   14.092126   23.561795   12.365341
115.815086   48.540163   1815.692
 0.75000   14.092126   23.750497   12.365341
116.355429   44.797066   2073.551
 1.00000   14.092126   23.948712   12.365341
116.921010   41.799257   2335.194
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1785

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -10.126407  -277.585848   -1.693746
-777.221347  -43.930113   -1916.901
 0.25000   -10.126407  -277.334974   -1.693746
-776.735505  -50.170306   -1868.269
 0.50000   -10.126407  -277.090961   -1.693746
-776.271447  -58.054107   -1841.701
 0.75000   -10.126407  -276.857975   -1.693746
-775.840873  -67.550061   -1817.195
 1.00000   -10.126407  -276.639711   -1.693746
-775.454116  -78.171019   -1792.717

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   15.249132   55.055336   10.529611
274.857727   60.952461   1809.441
 0.25000   15.249132   62.935831   10.529611
295.456479   57.854877   2088.655
 0.50000   15.249132   71.680947   10.529611
318.205335   56.074498   2398.934
 0.75000   15.249132   81.086260   10.529611
342.582254   55.609730   2719.397
 1.00000   15.249132   90.941743   10.529611
367.976733   56.050848   3028.930

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -10.694738  -444.172477   -5.634566
-758.229378  -57.696478   -2374.850
 0.25000   -10.694738  -431.493930   -5.634566
-737.847805   -60.024917   -2252.113
 0.50000   -10.694738  -419.131324   -5.634566
-718.359958   -64.014614   -2179.360
 0.75000   -10.694738  -407.305806   -5.634566
-700.387242   -69.637052   -2123.711
 1.00000   -10.694738  -396.209745   -5.634566
-689.596648   -76.428000   -2069.131

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.713031    6.100328    5.099733
24.433311   14.812279   508.512995
 0.25000    4.713031    6.155166    5.099733
25.592452   12.091018   603.742670
 0.50000    4.713031    6.216035    5.099733
25.767535    9.792195   708.442862
 0.75000    4.713031    6.281565    5.099733
25.955224    7.883675   816.403065
 1.00000    4.713031    6.350398    5.099733
26.151681    6.363648   925.821190

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.578677  -115.829397   -0.429133
-290.769851  -18.420756  -766.638811
 0.25000   -3.578677  -115.742151   -0.429133
-290.601065  -20.876406  -744.636987
 0.50000   -3.578677  -115.657417   -0.429133
-290.439848  -24.022068  -730.245849
 0.75000   -3.578677  -115.576518   -0.429133
-290.290262  -28.056627  -716.129751
 1.00000   -3.578677  -115.500721   -0.429133
-290.155894  -32.653037  -701.692663

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.123403   22.191844    4.675214
87.403389   16.253530    1204.689
 0.25000    8.123403   22.197330    4.675214
87.419322   14.919132    1386.789
 0.50000    8.123403   22.203419    4.675214
87.436850   13.981249   1615.250
 0.75000    8.123403   22.209975    4.675214
87.455639   13.904318   1867.468
 1.00000    8.123403   22.216861    4.675214
87.475308   14.312684   2126.807
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1786

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.949680  -287.929519   -2.320444
-423.751128  -27.626385   -1699.769
 0.25000   -4.949680  -287.920805   -2.320444
-423.734224  -28.775444   -1608.090
 0.50000   -4.949680  -287.912330   -2.320444
-423.718077  -30.534878   -1553.713
 0.75000   -4.949680  -287.904237   -2.320444
-423.703093  -33.203643   -1506.081
 1.00000   -4.949680  -287.896656   -2.320444
-423.689634  -36.616255   -1458.555

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   12.939175   28.203480   10.464681
132.326594   46.792244   1453.299
 0.25000   12.939175   28.208487   10.464681
132.340934   42.282333   1678.240
 0.50000   12.939175   28.213967   10.464681
132.356709   38.667985   1945.666
 0.75000   12.939175   28.219867   10.464681
132.373620   36.232972   2234.887
 1.00000   12.939175   28.226064   10.464681
132.391322   34.584032   2530.946

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.952076  -320.505266   -2.668927
-693.156608  -43.842189   -2118.782
 0.25000   -8.952076  -320.497423   -2.668927
-693.141394  -48.322361   -2041.117
 0.50000   -8.952076  -320.489796   -2.668927
-693.126861  -54.104181   -1997.181
 0.75000   -8.952076  -320.482512   -2.668927
-693.113376  -61.258234   -1959.282
 1.00000   -8.952076  -320.475689   -2.668927
-693.101262  -69.581649   -1921.481

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   15.048960   68.120174    8.933656
383.523675   54.836175    2006.222
 0.25000   15.048960   79.803591    8.933656
390.566519   53.315467    2317.423
 0.50000   15.048960   92.768602    8.933656
410.815068   53.100136    2657.595
 0.75000   15.048960   106.688333    8.933656
439.998254   54.342889    3004.029
 1.00000   15.048960   121.226797    8.933656
468.348253   56.572344    3331.237

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -10.584181  -526.479189   -7.589422
-639.258881  -64.526973   -2812.415
 0.25000   -10.584181  -507.317891   -7.589422
-618.147871  -64.606420   -2451.202
 0.50000   -10.584181  -488.543162   -7.589422
-608.040141  -66.134123   -2351.812
 0.75000   -10.584181  -470.538570   -7.589422
-608.027626  -69.143143   -2278.208
 1.00000   -10.584181  -453.602845   -7.589422
-608.035526  -73.337460   -2206.813

 COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.120741   69.658181    0.557319
598.099644   28.411595    1270.324
 0.25000    7.120741   83.934878    0.557319
593.708696   31.674547    1449.392
 0.50000    7.120741   99.729987    0.557319
589.317748   36.069014    1628.566
 0.75000    7.120741   116.627330    0.557319
584.926800   41.587805    1802.082
 1.00000    7.120741   134.159209    0.557319
580.535853   48.011263    1947.144
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1787

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -5.380254  -390.695946   -9.102217
-75.399738   -48.362911   -1328.644
 0.25000   -5.380254  -366.318615   -9.102217
-75.399738   -42.231671   -1174.431
 0.50000   -5.380254  -342.313601   -9.102217
-75.399738   -36.754017   -1070.200
 0.75000   -5.380254  -319.164694   -9.102217
-75.399738   -31.818936   -1001.374
 1.00000   -5.380254  -297.340389   -9.102217
-75.399738   -27.335943   -937.115812

 COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.633679   96.222109    0.779515
715.667282   36.798786    2251.825
 0.25000   10.633679   112.891251    0.779515
715.181498   41.690072    2236.237
 0.50000   10.633679   131.326821    0.779515
714.695714   48.098728    2524.205
 0.75000   10.633679   151.060090    0.779515
714.209930   56.050286    2831.131
 1.00000   10.633679   171.578230    0.779515
713.724147   65.108918    3109.612

 COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -7.190784  -578.935968   -12.649857
-171.486264  -65.550350   -2230.830
 0.25000   -7.190784  -550.763459   -12.649857
-171.486264  -56.970004   -1997.422
 0.50000   -7.190784  -523.057119   -12.649857
-171.486264  -49.440866   -1845.690
 0.75000   -7.190784  -496.394739   -12.649857
-171.486264  -42.737054   -1741.017
 1.00000   -7.190784  -471.241272   -12.649857
-171.486264  -36.693713   -1641.314

 COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   13.039579   90.502257    2.853695
638.370852   36.853597    2251.825
 0.25000   13.039579   105.798282    2.853695
638.455434   40.120337    2575.192
 0.50000   13.039579   122.713617    2.853695
638.540016   44.614930    2937.562
 0.75000   13.039579   140.822022    2.853695
638.624598   50.702892    3314.949
 1.00000   13.039579   159.655276    2.853695
638.709181   58.208741    3667.574

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -8.657383  -634.551008   -11.095925
-360.509537   -67.433821   -2691.853
 0.25000   -8.657383  -608.732118   -11.095925
-360.509537   -61.254837   -2454.431
 0.50000   -8.657383  -583.345730   -11.095925
-360.509537   -56.069977   -2302.906
 0.75000   -8.657383  -558.931176   -11.095925
-360.509537   -51.896569   -2192.608
 1.00000   -8.657383  -535.875002   -11.095925
-360.509537   -48.904685   -2086.834

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   15.208055   80.761694    7.677171
567.934759   52.984996    2192.754
 0.25000   15.208055   93.513672    7.677171
568.022889   52.884855    2519.681
 0.50000   15.208055   107.615610    7.677171
568.111018   54.251732    2880.349
 0.75000   15.208055   122.712249    7.677171
568.199148   57.287102    3254.067
 1.00000   15.208055   138.413301    7.677171
568.287277   61.707469    3607.702
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1788

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -10.756411  -588.056970   -9.693249
-555.264169   -72.606903   -2760.330
 0.25000   -10.756411   -566.533392   -9.693249
-555.264169   -70.436834   -2561.980
 0.50000   -10.756411   -545.370521   -9.693249
-555.264169   -69.705034   -2435.343
 0.75000   -10.756411   -525.017858   -9.693249
-555.264169   -70.356817   -2343.109
 1.00000   -10.756411   -505.797713   -9.693249
-555.264169   -72.345426   -2250.361

 COMB      DB ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.963467   111.520075    9.405178
608.402534   47.374246    2306.396
 0.25000    7.963467   136.036151    9.405178
608.402534   46.392642    2610.615
 0.50000    7.963467   162.831453    9.405178
608.402534   48.575033    2910.892
 0.75000    7.963467   191.380618    9.405178
608.402534   54.764984    3206.929
 1.00000    7.963467   221.134059    9.405178
608.402534   63.194349    3491.764

 COMB      DB ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -6.527157  -576.508084   -9.249733
-627.898762  -55.359784   -1973.517
 0.25000   -6.527157  -548.749541   -9.249733
-619.193551  -55.552286   -1902.368
 0.50000   -6.527157  -521.565056   -9.249733
-619.162914  -57.145583   -1831.454
 0.75000   -6.527157  -495.431569   -9.249733
-619.139139  -63.277661   -1760.668
 1.00000   -6.527157  -470.880875   -9.249733
-619.119737  -72.047208   -1689.999

 COMB      DL ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   15.249132   96.222109   13.354538
715.667282   65.798786    2251.825
 0.25000   15.249132   112.891251   13.354538
715.181498   58.834613    2575.192
 0.50000   15.249132   131.326821   13.354538
714.695714   56.074498    2937.562
 0.75000   15.249132   151.060090   13.354538
714.209930   57.287102    3314.949
 1.00000   15.249132   171.578230   13.354538
713.724147   65.108918    3667.574

 COMB      DL ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -10.756411  -634.551008   -12.649857
-777.221347   -72.606903   -2760.330
 0.25000   -10.756411  -608.732118   -12.649857
-776.735505   -70.436834   -2561.980
 0.50000   -10.756411  -583.345730   -12.649857
-776.271447   -69.705034   -2435.343
 0.75000   -10.756411  -558.931176   -12.649857
-775.840873   -70.356817   -2343.109
 1.00000   -10.756411  -535.875002   -12.649857
-775.454116   -72.345426   -2250.361

 COMB      CAR ----------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   15.249132   111.520075   13.354538
715.667282   65.798786    2306.396
 0.25000   15.249132   136.036151   13.354538
715.181498   58.834613    2610.615
 0.50000   15.249132   162.831453   13.354538
714.695714   56.074498    2937.562
 0.75000   15.249132   191.380618   13.354538
714.209930   57.287102    3314.949
 1.00000   15.249132   221.134059   13.354538
713.724147   65.108918    3667.574
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              1789

 F R A M E   E L E M E N T   I N T E R N A
 L   F O R C E S

 COMB      CAR ----------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -10.756411  -634.551008   -12.649857
-777.221347   -72.606903   -2760.330
 0.25000   -10.756411  -608.732118   -12.649857
-776.735505   -70.436834   -2561.980
 0.50000   -10.756411  -583.345730   -12.649857
-776.271447   -69.705034   -2435.343
 0.75000   -10.756411  -558.931176   -12.649857
-775.840873   -70.356817   -2343.109
 1.00000   -10.756411  -535.875002   -12.649857
-775.454116   -79.533075   -2250.361

 COMB      DESIGN ------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   15.249132   111.520075   13.354538
715.667282   65.798786    2306.396
 0.25000   15.249132   136.036151   13.354538
715.181498   58.834613    2610.615
 0.50000   15.249132   162.831453   13.354538
714.695714   56.074498    2937.562
 0.75000   15.249132   191.380618   13.354538
714.209930   57.287102    3314.949
 1.00000   15.249132   221.134059   13.354538
713.724147   65.108918    3667.574

 COMB      DESIGN ------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -10.756411  -634.551008   -12.649857
-777.221347   -72.606903   -2760.330
 0.25000   -10.756411  -608.732118   -12.649857
-776.735505   -70.436834   -2561.980
 0.50000   -10.756411  -583.345730   -12.649857
-776.271447   -69.705034   -2435.343
 0.75000   -10.756411  -558.931176   -12.649857
-775.840873   -70.356817   -2343.109
 1.00000   -10.756411  -535.875002   -12.649857
-775.454116   -79.533075   -2250.361

 ELEM      152 ================== LENGTH
=    4.927865

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    3.195516    4.177263    5.165872
15.943297   26.671788   469.958553
 0.25000    3.195516    4.188997    5.165872
15.974175   24.113954   518.450020
 0.50000    3.195516    4.201614    5.165872
16.007339   21.561222   568.437654
 0.75000    3.195516    4.214916    5.165872
16.042264   19.039214   619.358921
 1.00000    3.195516    4.230056    5.165872
16.083106   16.535666   671.271612

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.075727   -46.032228   -0.567104
-246.914813   -39.867939   -483.895692
 0.25000   -3.075727   -46.016984   -0.567104
-246.876087   -42.479511   -478.498747
 0.50000   -3.075727   -46.003424   -0.567104
-246.842665   -45.745437   -473.101805
 0.75000   -3.075727   -45.990377   -0.567104
-246.813313   -49.648901   -467.721210
 1.00000   -3.075727   -45.978051   -0.567104
-246.792081   -54.122929   -462.552126

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.428909    8.467941    7.984362
22.613961   33.798837   987.817255
 0.25000    5.428909    8.479670    7.984362
22.644793   30.270704    1084.535
```

0.50000 5.428909 8.492282 7.984362
22.677911 26.754141 1186.303
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 5.428909 8.505579 7.984362
22.712788 23.293417 1292.167
1.00000 5.428909 8.520711 7.984362
22.753570 19.971599 1402.007

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.925674 -101.244833 -1.983406
-434.032134 -70.990880 -924.326184
0.25000 -4.925674 -101.229598 -1.983406
-433.993465 -73.367421 -908.061663
0.50000 -4.925674 -101.216043 -1.983406
-433.960088 -77.053376 -891.797202
0.75000 -4.925674 -101.203000 -1.983406
-433.930956 -82.082170 -875.597140
1.00000 -4.925674 -101.190679 -1.983406
-433.909756 -88.273330 -859.624598

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.116198 13.455141 7.269366
77.247910 30.736424 1706.387
0.25000 7.116198 13.465698 7.269366
77.275669 27.722335 1845.779
0.50000 7.116198 13.477051 7.269366
77.305485 24.711123 2002.701
0.75000 7.116198 13.489019 7.269366
77.336885 22.159717 2174.455
1.00000 7.116198 13.502639 7.269366
77.373603 19.647088 2359.545

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.262187 -177.908162 -2.521784
-530.244962 -69.574401 -1345.222
0.25000 -5.262187 -177.894449 -2.521784
-530.210146 -70.988574 -1311.311
0.50000 -5.262187 -177.882248 -2.521784
-530.180097 -73.716294 -1277.399
0.75000 -5.262187 -177.870508 -2.521784
-530.153829 -77.789542 -1243.550
1.00000 -5.262187 -177.859418 -2.521784
-530.134742 -83.105143 -1209.924

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.743752 68.554919 6.593319
206.909501 46.115792 2548.465
0.25000 7.743752 79.486800 6.593319
230.321259 44.538571 2739.772
0.50000 7.743752 91.279256 6.593319
252.278494 43.360131 2937.593
0.75000 7.743752 103.733488 6.593319
279.339523 43.074733 3141.797
1.00000 7.743752 117.616386 6.593319
313.058882 43.121437 3348.001

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.695761 -335.460080 -4.862391
-560.110516 -66.552161 -1580.090
0.25000 -5.695761 -321.471506 -4.862391
-529.721159 -66.855667 -1530.323
0.50000 -5.695761 -308.758378 -4.862391
-511.640936 -68.255219 -1480.568
0.75000 -5.695761 -296.539373 -4.862391
-493.538350 -70.771278 -1430.909
1.00000 -5.695761 -285.022240 -4.862391
-478.946803 -74.328148 -1381.438

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.585343 5.013773 2.420442
14.579985 3.983729 707.588940
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 2.585343 5.142801 2.420442
14.919268 3.350950 768.955063
0.50000 2.585343 5.281554 2.420442
15.283688 2.954203 836.329149
0.75000 2.585343 5.427834 2.420442
15.667466 2.638568 908.431318
1.00000 2.585343 5.594299 2.420442
16.116235 2.332636 984.210694

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.695234 -76.858515 -1.678575
-204.099972 -15.442488 -541.054967
0.25000 -1.695234 -76.690904 -1.678575
-203.674449 -28.544182 -525.015429
0.50000 -1.695234 -76.541781 -1.678575
-203.307183 -28.434181 -508.975959
0.75000 -1.695234 -76.398297 -1.678575
-202.986123 -29.038115 -492.937072
1.00000 -1.695234 -76.262750 -1.678575
-202.752841 -30.219658 -476.898256

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.013897 27.391975 2.233601
139.205644 10.441422 1781.112
0.25000 5.013897 27.403704 2.233601
139.236488 10.366232 1883.315
0.50000 5.013897 27.416318 2.233601
139.269617 10.440388 2017.416
0.75000 5.013897 27.429616 2.233601
139.304506 11.125890 2183.752
1.00000 5.013897 27.444750 2.233601
139.345303 11.934063 2374.732

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.530376 -193.696480 -2.887251
-336.741980 -32.248456 -1115.873
0.25000 -2.530376 -193.681243 -2.887251
-336.703296 -30.740369 -1076.129
0.50000 -2.530376 -193.667686 -2.887251
-336.669908 -29.872876 -1036.387
0.75000 -2.530376 -193.654642 -2.887251
-336.640720 -29.717854 -996.647725
1.00000 -2.530376 -193.642320 -2.887251
-336.619513 -30.270901 -956.927883

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.903012 28.013321 5.735133
134.087474 26.164671 2003.772
0.25000 6.903012 28.023878 5.735133
134.115234 24.329221 2137.652
0.50000 6.903012 28.035230 5.735133
134.145050 22.628111 2301.312
0.75000 6.903012 28.047198 5.735133
134.176450 21.472005 2494.938
1.00000 6.903012 28.060818 5.735133
134.213168 20.428926 2711.697

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.600266 -214.429573 -3.332206
-498.048230 -61.315841 -1403.463
0.25000 -4.600266 -214.415859 -3.332206
-498.013415 -61.368817 -1361.770
0.50000 -4.600266 -214.403658 -3.332206
-497.983366 -62.536694 -1320.079
0.75000 -4.600266 -214.391919 -3.332206
-497.957097 -64.907483 -1278.537
1.00000 -4.600266 -214.380688 -3.332206
-497.938010 -68.405557 -1237.075
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.671691 96.397270 5.506325
301.466896 50.052113 2929.352
0.25000 7.671691 113.088030 5.506325
301.466896 49.689339 3150.798
0.50000 7.671691 131.170001 5.506325
320.307561 49.985825 3367.439
0.75000 7.671691 150.313161 5.506325
345.377977 51.507453 3579.082
1.00000 7.671691 171.043445 5.506325
367.651230 53.586146 3782.806

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.755438 -411.912881 -6.495430
-460.922888 -62.104501 -1639.788
0.25000 -5.755438 -391.003061 -6.495430
-439.426850 -60.933702 -1582.017
0.50000 -5.755438 -371.426677 -6.495430
-416.759996 -60.690897 -1524.296
0.75000 -5.755438 -352.639098 -6.495430
-414.340226 -61.453228 -1466.731
1.00000 -5.755438 -334.985228 -6.495430
-414.340226 -63.153246 -1409.236

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.486511 115.836814 1.347312
429.463944 49.530995 2073.032
0.25000 3.486511 136.946024 1.347312
429.463944 51.540629 2158.777
0.50000 3.486511 160.025109 1.347312
429.463944 54.631517 2276.695
0.75000 3.486511 184.574495 1.347312
429.463944 58.833282 2362.340
1.00000 3.486511 209.622977 1.347312
429.463944 64.060045 2418.621

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.336540 -342.783598 -6.506628
-25.261103 -19.337180 -724.874550
0.25000 -3.336540 -317.461900 -6.506628
-25.261103 -17.223188 -688.810633
0.50000 -3.336540 -292.267134 -6.506628
-25.261103 -15.109921 -652.820976
0.75000 -3.336540 -268.156423 -6.506628
-25.261103 -12.997970 -616.831346
1.00000 -3.336540 -245.650593 -6.506628
-25.261103 -10.887162 -580.841716

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.601144 156.759500 1.747347
564.895705 64.207935 3128.997
0.25000 5.601144 182.069640 1.747347
564.895705 66.762451 3329.373
0.50000 5.601144 209.654940 1.747347
564.895705 70.716338 3517.509
0.75000 5.601144 238.958997 1.747347
564.895705 76.330735 3678.751
1.00000 5.601144 269.388984 1.747347
564.895705 83.286188 3829.262

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.375137 -490.871409 -8.599071
-106.424170 -26.629044 -1251.319
0.25000 -4.375137 -460.129956 -8.599071
-106.424170 -23.862302 -1192.175
0.50000 -4.375137 -430.087254 -8.599071
-106.424170 -21.107407 -1133.149
0.75000 -4.375137 -401.314881 -8.599071
-106.424170 -18.368438 -1074.122
1.00000 -4.375137 -374.394499 -8.599071
-106.424170 -15.642705 -1015.096
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.236463 142.144268 2.445254
524.291451 56.710384 3490.916
0.25000 7.236463 165.367989 2.445254
524.291451 58.963487 3727.726
0.50000 7.236463 190.671337 2.445254
524.291451 62.397669 3955.234
0.75000 7.236463 217.547694 2.445254
524.291451 67.548905 4173.144
1.00000 7.236463 245.505718 2.445254
524.291451 73.806834 4377.759

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.010628 -515.727642 -8.631969
-252.372222 -38.105187 -1609.282
0.25000 -5.010628 -487.485311 -8.631969
-252.372222 -34.771448 -1540.021
0.50000 -5.010628 -459.934436 -8.631969
-252.372222 -31.800175 -1470.870
0.75000 -5.010628 -433.546460 -8.631969
-252.372222 -29.214938 -1401.729
1.00000 -5.010628 -408.851154 -8.631969
-252.372222 -27.037333 -1332.597

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.944463 121.437566 4.810998
442.264563 57.210274 3279.700
0.25000 7.944463 140.900484 4.810998
442.264563 57.886288 3514.942
0.50000 7.944463 161.897038 4.810998
442.264563 59.547494 3743.647
0.75000 7.944463 184.304963 4.810998
442.264563 62.648394 3965.700
1.00000 7.944463 207.616349 4.810998
442.264563 66.678106 4177.942

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.973741 -468.107629 -8.098618
-371.811074 -59.198068 -1689.939
0.25000 -5.973741 -444.559250 -8.098618
-371.811074 -56.874426 -1625.485
0.50000 -5.973741 -421.589049 -8.098618
-371.811074 -55.360118 -1561.152
0.75000 -5.973741 -399.588332 -8.098618
-371.811074 -54.733293 -1496.887
1.00000 -5.973741 -378.998668 -8.098618
-371.811074 -54.923539 -1432.650

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.326738 6.215784 7.395027
22.397518 34.305842 739.003464
0.25000 7.326738 6.221667 7.395027
22.413294 31.065978 795.913034
0.50000 7.326738 6.228121 7.395027
22.430630 28.012824 853.408147
0.75000 7.326738 6.235045 7.395027
22.449180 24.989961 910.976166
1.00000 7.326738 6.242282 7.395027
22.468506 21.996970 969.030307

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.445283 -63.007715 -0.778856
-314.979507 -43.027991 -645.429129
0.25000 -5.445283 -62.999206 -0.778856
-314.962613 -47.700800 -637.524159
0.50000 -5.445283 -62.990960 -0.778856
-314.946466 -52.836552 -629.618812
0.75000 -5.445283 -62.983108 -0.778856
-314.931507 -58.290878 -621.760326
1.00000 -5.445283 -62.975797 -0.778856
-314.918110 -63.970287 -613.967984
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.118099 11.653863 10.700500
30.036379 43.571392 1464.663
0.25000 12.118099 11.659744 10.700500
30.052126 39.064090 1582.541
0.50000 12.118099 11.666195 10.700500
30.069435 34.928402 1701.722
0.75000 12.118099 11.673116 10.700500
30.087957 30.924947 1822.647
1.00000 12.118099 11.680350 10.700500
30.107253 27.100218 1945.052

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.961658 -136.575649 -2.079036
-539.256962 -77.068622 -1223.305
0.25000 -8.961658 -136.567142 -2.079036
-539.240100 -82.378453 -1200.861
0.50000 -8.961658 -136.558899 -2.079036
-539.223988 -88.613710 -1178.420
0.75000 -8.961658 -136.551050 -2.079036
-539.209061 -95.783229 -1156.063
1.00000 -8.961658 -136.543742 -2.079036
-539.195701 -103.581824 -1133.750

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.527011 20.786911 9.689372
77.592513 41.080355 2338.031
0.25000 14.527011 20.956248 9.689372
78.045843 37.331532 2523.564
0.50000 14.527011 21.142036 9.689372
78.544167 33.577177 2714.977
0.75000 14.527011 21.341318 9.689372
79.077380 30.814684 2911.325
1.00000 14.527011 21.549635 9.689372
79.632894 27.820780 3110.598

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.626580 -235.331030 -2.636873
-629.176125 -75.288874 -1793.074
0.25000 -9.626580 -235.086068 -2.636873
-628.690770 -79.505131 -1747.049
0.50000 -9.626580 -234.846689 -2.636873
-628.226966 -84.652561 -1701.028
0.75000 -9.626580 -234.622665 -2.636873
-627.797291 -90.615156 -1655.090
1.00000 -9.626580 -234.412196 -2.636873
-627.412735 -97.160173 -1609.257

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.673492 63.908941 8.670977
223.547837 56.376032 3030.670
0.25000 15.673492 72.403078 8.670977
243.768183 54.829623 3278.123
0.50000 15.673492 81.714494 8.670977
266.110001 53.923843 3517.254
0.75000 15.673492 91.691666 8.670977
290.005577 53.431842 3750.188
1.00000 15.673492 102.103386 8.670977
314.840755 53.276852 3970.560

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.110249 -377.264301 -5.612643
-626.157263 -74.444431 -2069.376
0.25000 -10.110249 -364.913574 -5.612643
-605.629724 -76.292278 -2004.437
0.50000 -10.110249 -352.917928 -5.612643
-586.011941 -79.157407 -1939.527
0.75000 -10.110249 -341.479766 -5.612643
-567.933609 -82.868566 -1874.771
1.00000 -10.110249 -330.815923 -5.612643
-552.846362 -87.160624 -1809.994
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.039323 6.794016 2.641389
12.864723 6.138372 926.851013
0.25000 5.039323 6.852820 2.641389
13.022191 5.373321 1004.220
0.50000 5.039323 6.917337 2.641389
13.195287 4.791827 1082.196
0.75000 5.039323 6.986540 2.641389
13.380502 4.321360 1163.537
1.00000 5.039323 7.058881 2.641389
13.573464 3.970846 1246.095

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.375854 -97.595134 -1.474925
-230.473385 -31.442455 -701.761958
0.25000 -3.375854 -97.510069 -1.474925
-230.304771 -31.448701 -680.901139
0.50000 -3.375854 -97.427639 -1.474925
-230.143646 -31.750883 -660.024794
0.75000 -3.375854 -97.349152 -1.474925
-229.994375 -32.895303 -639.153130
1.00000 -3.375854 -97.276056 -1.474925
-229.860775 -34.538492 -618.284366

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.868445 31.007589 2.458234
117.470007 14.588635 2127.948
0.25000 8.868445 31.013471 2.458234
117.485776 14.765566 2283.389
0.50000 8.868445 31.019925 2.458234
117.503105 15.157424 2451.212
0.75000 8.868445 31.026847 2.458234
117.521648 15.824818 2635.792
1.00000 8.868445 31.034084 2.458234
117.540967 16.627267 2827.611

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.824398 -236.880328 -2.947146
-354.803272 -35.174356 -1458.619
0.25000 -4.824398 -236.871820 -2.947146
-354.786387 -34.256560 -1407.020
0.50000 -4.824398 -236.863574 -2.947146
-354.770247 -33.812159 -1355.386
0.75000 -4.824398 -236.855724 -2.947146
-354.755297 -33.982833 -1303.772
1.00000 -4.824398 -236.848413 -2.947146
-354.741907 -34.567107 -1252.219

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.528609 32.686998 7.325560
118.806782 34.375241 2533.211
0.25000 13.528609 32.692292 7.325560
118.820974 32.195371 2723.036
0.50000 13.528609 32.698101 7.325560
118.836570 30.458436 2924.329
0.75000 13.528609 32.704331 7.325560
118.853259 29.029869 3140.911
1.00000 13.528609 32.710844 7.325560
118.870646 27.743509 3364.594

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.524223 -268.776173 -3.449352
-565.536305 -67.191137 -1921.743
0.25000 -8.524223 -268.768515 -3.449352
-565.521109 -69.130281 -1866.584
0.50000 -8.524223 -268.761094 -3.449352
-565.506583 -71.957646 -1811.423
0.75000 -8.524223 -268.754029 -3.449352
-565.493128 -75.647061 -1731.160
1.00000 -8.524223 -268.747449 -3.449352
-565.481077 -79.946546 -1676.790
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.456754 84.650581 6.888421
311.188219 57.581864 3332.001
0.25000 15.456754 97.347456 6.888421
317.508278 57.756099 3612.285
0.50000 15.456754 111.251358 6.888421
341.940434 58.801542 3874.455
0.75000 15.456754 126.122470 6.888421
370.732958 60.515863 4119.598
1.00000 15.456754 141.592596 6.888421
398.791806 62.689338 4343.149

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.974116 -445.551297 -7.554957
-520.524984 -71.899099 -2206.897
0.25000 -9.974116 -426.945767 -7.554957
-498.836849 -71.150790 -2131.877
0.50000 -9.974116 -408.807651 -7.554957
-478.038881 -71.440942 -2056.882
0.75000 -9.974116 -391.462969 -7.554957
-473.525628 -72.657198 -1961.121
1.00000 -9.974116 -375.261806 -7.554957
-473.518708 -74.538106 -1886.772

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.962940 91.255827 1.409966
479.272124 49.908008 1944.948
0.25000 6.962940 106.977828 1.409966
474.881847 53.055154 2119.771
0.50000 6.962940 124.168859 1.409966
470.491571 57.259052 2261.790
0.75000 6.962940 142.487806 1.409966
466.101294 62.481365 2369.963
1.00000 6.962940 161.415723 1.409966
461.711017 68.606441 2444.694

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.917770 -328.671915 -8.202167
-28.754696 -28.273496 -936.885557
0.25000 -4.917770 -305.225798 -8.202167
-28.754696 -24.126611 -891.379334
0.50000 -4.917770 -282.232843 -8.202167
-28.754696 -20.487387 -846.099607
0.75000 -4.917770 -260.129023 -8.202167
-28.754696 -17.231490 -800.597327
1.00000 -4.917770 -239.398655 -8.202167
-28.754696 -14.354046 -755.070348

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.715404 128.447528 1.890020
602.434415 67.786706 3107.180
0.25000 10.715404 146.733392 1.890020
601.948706 72.226509 3357.096
0.50000 10.715404 166.728773 1.890020
601.462996 77.959726 3580.339
0.75000 10.715404 188.053151 1.890020

```
600.977287   84.913228    3782.492
 1.00000   10.715404  210.120660     1.890020
600.491577   92.877814    3951.210

  COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -6.654822 -484.625282  -10.859767
-107.268870  -37.931594   -1641.013
 0.25000   -6.654822 -457.472513  -10.859767
-107.268870  -31.547870   -1565.156
 0.50000   -6.654822 -430.892201  -10.859767
-107.268870  -27.945967   -1489.499
 0.75000   -6.654822 -405.365381  -10.859767
-107.268870  -23.810170   -1413.612
 1.00000   -6.654822 -381.434007  -10.859767
-107.268870  -20.109905   -1331.971
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1797

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   13.501343  120.031286     2.619280
553.753934   60.485019    3666.107
 0.25000   13.501343  136.801808     2.619280
553.838503   64.333380    3966.674
 0.50000   13.501343  155.141201     2.619280
553.923072   69.336110    4243.057
 0.75000   13.501343  174.701627     2.619280
554.007642   75.452416    4498.814
 1.00000   13.501343  194.947640     2.619280
554.092211   82.440681    4726.110

  COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -8.143760  -529.450576   -10.441546
-264.994417  -48.961588   -2086.599
 0.25000   -8.143760  -504.560514   -10.441546
-264.994417  -43.848883   -1998.401
 0.50000   -8.143760  -480.199140   -10.441546
-264.994417  -39.514559   -1910.350
 0.75000   -8.143760  -456.807412   -10.441546
-264.994417  -35.965424   -1822.109
 1.00000   -8.143760  -434.879410   -10.441546
-264.994417  -33.065970   -1733.835

  COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.606504  104.086298     5.768427
469.062413   63.283033    3607.474
 0.25000   15.606504  118.067261     5.768427
469.150529   64.626963    3903.913
 0.50000   15.606504  133.356137     5.768427
469.238645   67.679250    4180.719
 0.75000   15.606504  149.663014     5.768427
469.326761   71.438958    4440.871
 1.00000   15.606504  166.541571     5.768427
469.414877   75.995190    4677.719

  COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.084922 -493.995722   -9.592612
-421.263512  -71.431181   -2250.296
 0.25000  -10.084922 -473.246241   -9.592612
-421.263512  -68.627117   -2166.648
 0.50000  -10.084922 -452.937646   -9.592612
-421.263512  -66.841760   -2083.185
 0.75000  -10.084922 -433.437522   -9.592612
-421.263512  -66.059635   -1999.547
 1.00000  -10.084922 -415.157667   -9.592612
-421.263512  -66.073798   -1913.612

  COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.944463  156.759500     7.984362
564.895705   64.207935    3490.916
 0.25000    7.944463  182.069640     7.984362
564.895705   66.762451    3727.726
 0.50000    7.944463  209.654940     7.984362
564.895705   70.706338    3955.234
 0.75000    7.944463  238.958997     7.984362
564.895705   75.933735    4171.144
 1.00000    7.944463  269.388984     7.984362
564.895705   83.286188    4377.759

  COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.973741 -515.727642   -8.631969
-560.110516  -70.990880   -1689.939
 0.25000   -5.973741 -487.485311   -8.631969
-530.210146  -73.367421   -1625.485
 0.50000   -5.973741 -459.934436   -8.631969
-530.180097  -77.053376   -1561.152
 0.75000   -5.973741 -433.546460   -8.631969
-530.153829  -82.082170   -1496.887
 1.00000   -5.973741 -408.851154   -8.631969
-530.134742  -88.273330   -1432.650
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1798

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.673492  128.447528    10.700500
602.434415   67.786706    3666.107
 0.25000   15.673492  146.733392    10.700500
601.948706   72.226509    3966.674
 0.50000   15.673492  166.728773    10.700500
601.462996   77.959726    4243.057
 0.75000   15.673492  188.053151    10.700500
600.977287   84.913228    4498.814
 1.00000   15.673492  210.120660    10.700500
600.491577   92.877814    4726.110

  COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.110249 -529.450576   -10.859767
-629.176125  -77.068622   -2250.296
 0.25000  -10.110249 -504.560514   -10.859767
-628.690770  -82.378453   -2166.648
 0.50000  -10.110249 -480.199140   -10.859767
-628.226966  -88.613710   -2083.185
 0.75000  -10.110249 -456.807412   -10.859767
-627.797291  -95.796329   -1999.547
 1.00000  -10.110249 -434.879410   -10.859767
-627.412735 -103.581824   -1913.612

  COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.673492  156.759500    10.700500
602.434415   67.786706    3666.107
 0.25000   15.673492  182.069640    10.700500
601.948706   72.226509    3966.674
 0.50000   15.673492  209.654940    10.700500
601.462996   77.959726    4243.057
 0.75000   15.673492  238.958997    10.700500
600.977287   84.913228    4498.814
 1.00000   15.673492  269.388984    10.700500
600.491577   92.877814    4726.110

  COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.110249 -529.450576   -10.859767
-629.176125  -77.068622   -2250.296
 0.25000  -10.110249 -504.560514   -10.859767
-628.690770  -82.378453   -2166.648
 0.50000  -10.110249 -480.199140   -10.859767
-628.226966  -88.613710   -2083.185
 0.75000  -10.110249 -456.807412   -10.859767
-627.797291  -95.796329   -1999.547
 1.00000  -10.110249 -434.879410   -10.859767
-627.412735 -103.581824   -1913.612

  COMB      DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   15.673492  156.759500    10.700500
602.434415   67.786706    3666.107
 0.25000   15.673492  182.069640    10.700500
601.948706   72.226509    3966.674
 0.50000   15.673492  209.654940    10.700500
601.462996   77.959726    4243.057
 0.75000   15.673492  238.958997    10.700500
600.977287   84.913228    4498.814
 1.00000   15.673492  269.388984    10.700500
600.491577   92.877814    4726.110

  COMB      DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000  -10.110249 -529.450576   -10.859767
-629.176125  -77.068622   -2250.296
 0.25000  -10.110249 -504.560514   -10.859767
-628.690770  -82.378453   -2166.648
 0.50000  -10.110249 -480.199140   -10.859767
-628.226966  -88.613710   -2083.185
 0.75000  -10.110249 -456.807412   -10.859767
-627.797291  -95.796329   -1999.547
 1.00000  -10.110249 -434.879410   -10.859767
-627.412735 -103.581824   -1913.612
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1799

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM     153 ================= LENGTH
=    4.928042

  COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.154915    4.828143     4.229635
 1.908836   16.558259  672.085015
 0.25000    3.154915    4.840107     4.229635
 1.939061   14.298089  703.642890
 0.50000    3.154915    4.852947     4.229635
 1.971619   12.044429  736.149569
 0.75000    3.154915    4.866459     4.229635
 2.005943    9.815631  769.189299
 1.00000    3.154915    4.881791     4.229635
 2.046151    7.595818  802.679624

  COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.710041  -32.118857   -1.729310
-165.347870  -53.753983 -462.555756
 0.25000   -2.710041  -32.103431   -1.729310
-165.308940  -54.754126 -449.713544
 0.50000   -2.710041  -32.089704   -1.729310
-165.276001  -56.444225 -436.871332
 0.75000   -2.710041  -32.076619   -1.729310
-165.244525  -58.776005 -424.029127
 1.00000   -2.710041  -32.064077   -1.729310
-165.217084  -61.729954 -411.186930

  COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.617207   10.544555     6.645313
22.028872   20.092589    1403.342
 0.25000    5.617207   10.556514     6.645313
22.059051   17.276445    1465.375
 0.50000    5.617207   10.569349     6.645313
22.091563   14.469358    1526.211
 0.75000    5.617207   10.582856     6.645313
22.125842   11.812532    1598.517
 1.00000    5.617207   10.598180     6.645313
22.165990    9.467866    1669.449

  COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.342957  -73.370770   -3.983760
-305.847020  -87.552947 -859.621661
 0.25000   -4.342957  -73.355352   -3.983760
-305.808184  -87.521260 -832.956670
 0.50000   -4.342957  -73.341630   -3.983760
-305.775289  -88.896192 -806.291680
 0.75000   -4.342957  -73.328447   -3.983760
-305.743858  -91.692142 -779.633560
 1.00000   -4.342957  -73.316012   -3.983760
-305.716606  -95.760568 -752.981916

  COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.520360   29.248952     6.027600
112.344760   20.288975    2350.917
 0.25000    7.520360   29.259717     6.027600
112.371931   18.020843    2444.858
 0.50000    7.520360   29.271270     6.027600
112.401202   15.797270    2542.649
 0.75000    7.520360   29.283427     6.027600
112.432063   13.655671    2654.720
 1.00000    7.520360   29.297220     6.027600
112.468210   11.718027    2777.283

  COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.799695  -135.903900   -4.476732
-406.627341  -82.102367   -1209.932
 0.25000   -4.799695  -135.890022   -4.476732
-406.592367  -81.060939   -1167.659
 0.50000   -4.799695  -135.877671   -4.476732
-406.562752  -81.415331   -1125.385
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1800

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000   -4.799695  -135.865805   -4.476732
-406.534454  -83.229839   -1083.117
 1.00000   -4.799695  -135.854613   -4.476732
-406.509885  -86.488529   -1040.852

  COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.301201   95.709289     6.141912
212.517533   43.986369    3348.977
 0.25000    8.301201  106.870010     6.141912
235.396766   42.606673    3472.674
 0.50000    8.301201  118.883450     6.141912
258.194128   41.711769    3597.085
 0.75000    8.301201  131.545688     6.141912
286.951400   41.364559    3726.749
 1.00000    8.301201  145.621052     6.141912
320.141846   41.523789    3855.438

  COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.163890  -284.794621   -6.203724
-480.966512  -73.561180   -1381.458
 0.25000   -5.163890  -270.625481   -6.203724
-449.401586  -72.221176   -1328.647
 0.50000   -5.163890  -257.747885   -6.203724
-422.916765  -72.052933   -1275.837
 0.75000   -5.163890  -245.389621   -6.203724
-405.020549  -73.100113   -1223.030
 1.00000   -5.163890  -233.760038   -6.203724
-387.865194  -75.352249   -1170.227

  COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    2.855324   10.785009     2.082212
 48.374713    2.612779   984.669131
 0.25000    2.855324   10.916570     2.082212
 48.706807    1.842276   1021.373
 0.50000    2.855324   11.057774     2.082212
 49.064567    1.891602   1063.614
 0.75000    2.855324   11.206362     2.082212
 49.441754    1.614204   1110.433
 1.00000    2.855324   11.374945     2.082212
 49.883553    1.576256   1160.978

  COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -1.496560  -59.489350   -2.411122
-164.450629  -29.811754  -476.894901
 0.25000   -1.496560  -59.319729   -2.411122
-164.023175  -28.295185  -459.005514
 0.50000   -1.496560  -59.168775   -2.411122
-163.661209  -27.539536  -441.116127
 0.75000   -1.496560  -59.023744   -2.411122
-163.315344  -27.567730  -423.232489
 1.00000   -1.496560  -58.886953   -2.411122
-163.015054  -28.199972  -405.354272

  COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.552824   50.349246     2.147850
193.229818   12.760592    2375.269
 0.25000    5.552824   50.361206     2.147850
193.260009   12.972796    2427.726
 0.50000    5.552824   50.374043     2.147850
193.292532   13.389298    2506.269
 0.75000    5.552824   50.387551     2.147850
193.326822   13.997250    2617.330
 1.00000    5.552824   50.402877     2.147850
193.366985   14.906756    2750.940

  COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.439250  -157.020309   -3.552269
-302.501360  -29.652609  -956.943755
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1801

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000   -2.439250  -157.004889   -3.552269
-302.462501  -27.408733  -917.924851
 0.50000   -2.439250  -156.991166   -3.552269
-302.429595  -25.887242  -878.905947
 0.75000   -2.439250  -156.977892   -3.552269
-302.398153  -25.173807  -839.882395
 1.00000   -2.439250  -156.965546   -3.552269
-302.370854  -25.291244  -800.883888

  COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.493948   49.186528     5.028617
174.278837   21.212955    2712.804
 0.25000    7.493948   49.197292     5.028617
174.306008   20.025616    2786.832
 0.50000    7.493948   49.208845     5.028617
174.335280   19.036632    2885.430
 0.75000    7.493948   49.221002     5.028617
174.366140   18.210492    3013.855
 1.00000    7.493948   49.234795     5.028617
174.402288   17.653407    3163.146

  COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.244335  -169.470344   -4.895204
-405.054546  -67.538597   -1237.087
 0.25000   -4.244335  -169.456466   -4.895204
-405.019572  -65.817342   -1190.846
 0.50000   -4.244335  -169.444115   -4.895204
-404.989957  -65.301330   -1144.606
 0.75000   -4.244335  -169.432249   -4.895204
-404.961659  -66.097850   -1098.369
 1.00000   -4.244335  -169.421057   -4.895204
-404.937090  -68.176291   -1052.136

  COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.239451   128.900699     5.600677
283.336920   54.588031    3783.302
 0.25000    8.239451   145.970693     5.600677
283.336920   54.105811    3931.740
 0.50000    8.239451   164.418382     5.600677
307.120062   54.352628    4069.912
 0.75000    8.239451   183.905355     5.600677
331.373219   55.517381    4201.404
 1.00000    8.239451   204.956920     5.600677
352.931442   57.404003    4321.462

  COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.206685  -358.167809   -7.381550
-411.939456  -62.488504   -1409.252
 0.25000   -5.206685  -336.960778   -7.381550
-389.574772  -60.336339   -1352.494
 0.50000   -5.206685  -317.113483   -7.381550
-364.501907  -59.182465   -1295.736
 0.75000   -5.206685  -298.096061   -7.381550
-346.555773  -59.126624   -1238.981
 1.00000   -5.206685  -280.255654   -7.381550
-346.555773  -60.138962   -1182.229

  COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    3.066429   139.096025     2.501929
341.537476   64.608387    2417.635
 0.25000    3.066429   160.762237     2.501929
341.537476   65.399251    2531.615
 0.50000    3.066429   184.376112     2.501929
341.537476   67.296289    2611.624
 0.75000    3.066429   209.427758     2.501929
341.537476   70.337478    2657.114
 1.00000    3.066429   234.952433     2.501929
341.537476   74.450166    2671.068
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1802

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -2.913796  -317.137649   -5.762775
-95.855692  -10.973741  -580.841269
 0.25000   -2.913796  -291.384113   -5.762775
-95.855692   -9.662595  -552.634526
 0.50000   -2.913796  -265.796482   -5.762775
-95.855692   -8.352632  -524.427782
 0.75000   -2.913796  -241.350947   -5.762775
-95.855692   -7.043661  -496.221046
 1.00000   -2.913796  -218.572537   -5.762775
-95.855692   -5.737100  -468.014422

  COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    5.478297   195.034166     3.446817
473.499203   84.232461    3828.184
 0.25000    5.478297   220.983889     3.446817
473.499203   85.614292    3968.810
 0.50000    5.478297   249.184492     3.446817
473.499203   88.396355    4085.590
 0.75000    5.478297   279.066283     3.446817
473.499203   92.696882    4185.019
 1.00000    5.478297   310.042669     3.446817
473.499203   98.352150    4264.229

  COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -3.895900  -447.338347   -7.664107
-185.731827  -15.789219   -1015.115
 0.25000   -3.895900  -416.099901   -7.664107
-185.731827  -14.136195   -967.158854
 0.50000   -3.895900  -385.603698   -7.664107
-185.731827  -12.498874   -919.202033
 0.75000   -3.895900  -356.445695   -7.664107
-185.731827  -10.879277   -871.247432
 1.00000   -3.895900  -329.210355   -7.664107
-185.731827   -9.278695  -823.296360

  COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.362717   186.649726     3.649231
480.957159   75.106852    4377.088
 0.25000    7.362717   210.457706     3.649231
480.957159   76.233334    4538.017
 0.50000    7.362717   236.323249     3.649231
480.957159   78.627057    4682.851
 0.75000    7.362717   263.727563     3.649231
480.957159   82.352566    4816.299
 1.00000    7.362717   292.184583     3.649231
480.957159   87.262581    4932.666

  COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.574284  -460.972943   -8.222249
-299.286154  -26.683749    1332.616
 0.25000   -4.574284  -432.276500   -8.222249
-299.286154  -23.750812    1272.936
 0.50000   -4.574284  -404.311124   -8.222249
-299.286154  -21.230478    1213.257
 0.75000   -4.574284  -377.570763   -8.222249
-299.286154  -19.163346    1153.577
 1.00000   -4.574284  -352.587556   -8.222249
-299.286154  -17.601620    1093.898

  COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    8.207329   158.636712     5.376902
405.458460   67.786844    4177.880
 0.25000    8.207329   178.486673     5.376902
405.458460   67.932881    4336.351
 0.50000    8.207329   200.051881     5.376902
405.458460   69.134048    4482.020
 0.75000    8.207329   222.899919     5.376902
405.458460   71.484362    4619.263
 1.00000    8.207329   246.627270     5.376902
405.458460   74.954450    4742.611
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1803

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -5.394671  -411.699738   -8.549150
-363.553261  -54.345506   -1432.661
 0.25000   -5.394671  -387.772805   -8.549150
-363.553261  -51.563622   -1372.639
 0.50000   -5.394671  -364.457064   -8.549150
-363.553261  -49.658658   -1312.617
 0.75000   -5.394671  -342.162593   -8.549150
-363.553261  -48.730360   -1252.599
 1.00000   -5.394671  -321.332926   -8.549150
-363.553261  -48.749270   -1192.585

  COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    7.126135    6.668694     5.828485
 2.003067   21.431192  970.084890
 0.25000    7.126135    6.674881     5.828485
 2.018296   18.652427   1003.374
 0.50000    7.126135    6.681655     5.828485
 2.035087   15.904992   1036.995
 0.75000    7.126135    6.688877     5.828485
 2.053053   13.182402   1070.649
 1.00000    7.126135    6.696420     5.828485
 2.071786   10.494813   1104.464

  COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -4.946993  -48.467966   -1.642056
-203.269174  -62.865268  -614.044259
 0.25000   -4.946993  -48.459641   -1.642056
-203.251993  -65.243519  -596.649846
 0.50000   -4.946993  -48.451589   -1.642056
-203.235554  -67.941777  -579.268900
 0.75000   -4.946993  -48.443952   -1.642056
-203.220288  -70.977596  -561.888949
 1.00000   -4.946993  -48.436864   -1.642056
-203.206587  -74.279192  -544.479113

  COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   12.010481   14.403076     8.376856
 17.356100   26.300850    1946.790
 0.25000   12.010481   14.409260     8.376856
 17.371303   22.924083    2014.503
 0.50000   12.010481   14.416031     8.376856
 17.388067   19.620070    2083.017
 0.75000   12.010481   14.423250     8.376856
```

```
 17.406003    16.393675     2152.432
 1.00000    12.010481    14.430789     8.376856
 17.424705    13.260382     2223.279

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -8.159902 -103.295167    -3.890228
-356.593413 -101.490754    -1133.845
 0.25000    -8.159902 -103.286846    -3.890228
-356.576266 -103.139073    -1098.238
 0.50000    -8.159902 -103.278797    -3.890228
-356.559858 -105.479348    -1062.631
 0.75000    -8.159902 -103.271162    -3.890228
-356.544623 -108.777573    -1027.035
 1.00000    -8.159902 -103.264076    -3.890228
-356.530951 -112.745260    -991.418666

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    14.690975    34.463987     7.567388
 96.715769    27.509134    3112.408
 0.25000    14.690975    34.642058     7.567388
 97.153419    24.635333    3216.096
 0.50000    14.690975    34.837047     7.567388
 97.636030    21.868870    3324.722
 0.75000    14.690975    35.044943     7.567388
 98.152384    19.223434    3437.654
 1.00000    14.690975    35.262037     7.567388
 98.690791    16.771555    3553.274
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <              MOVING              LOAD              >
                                    1804

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -8.908077 -179.629241    -4.302617
-448.834854   -94.873405    -1609.356
 0.25000    -8.908077 -179.389608    -4.302617
-448.341256   -95.521298    -1552.606
 0.50000    -8.908077 -179.157818    -4.302617
-447.868944   -96.868276    -1495.828
 0.75000    -8.908077 -178.937968    -4.302617
-447.430380   -99.094964    -1439.092
 1.00000    -8.908077 -178.733900    -4.302617
-447.036822  -102.141927    -1382.347

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    15.884518    86.387628     7.410391
210.088314    53.878214    3971.641
 0.25000    15.884518    95.346567     7.410391
229.371286    52.629164    4118.746
 0.50000    15.884518   105.146732     7.410391
250.763642    51.574416    4256.510
 0.75000    15.884518   115.581789     7.410391
273.699705    50.709577    4386.728
 1.00000    15.884518   126.457371     7.410391
297.506518    50.205515    4504.719

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -9.328608 -306.559172    -6.334907
-491.398104   -85.677032    -1810.078
 0.25000    -9.328608 -294.494875    -6.334907
-470.278725   -85.504088    -1740.867
 0.50000    -9.328608 -282.798014    -6.334907
-450.020085   -85.933743    -1671.637
 0.75000    -9.328608 -271.684688    -6.334907
-431.300475   -87.121878    -1602.446
 1.00000    -9.328608 -261.355252    -6.334907
-414.698721   -89.069366    -1533.233

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.212651    12.594753     2.049864
 36.746528    3.879505    1246.752
 0.25000    5.212651    12.656589     2.049864
 36.898554    3.470202    1290.259
 0.50000    5.212651    12.724301     2.049864
 37.066196    3.127471    1334.705
 0.75000    5.212651    12.796494     2.049864
 37.245559    2.846281    1379.563
 1.00000    5.212651    12.871883     2.049864
 37.432583    2.609098    1427.546

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -3.109705   -73.431516    -2.347966
-168.380024   -33.542202   -618.294580
 0.25000    -3.109705   -73.348302    -2.347966
-168.208552   -32.157587   -595.018603
 0.50000    -3.109705   -73.267812    -2.347966
-168.044475   -31.074183   -571.784401
 0.75000    -3.109705   -73.191468    -2.347966
-167.892121   -30.877605   -548.503897
 1.00000    -3.109705   -73.120605    -2.347966
-167.755398   -31.164821   -525.209948

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    9.305426    50.634366     2.134536
 166.058051    17.253354    2828.281
 0.25000    9.305426    50.640552     2.134536
 166.073273    17.421633    2908.743
 0.50000    9.305426    50.647325     2.134536
 166.090058    17.703127    3000.463
 0.75000    9.305426    50.654547     2.134536
 166.108016    18.081307    3107.538
 1.00000    9.305426    50.662088     2.134536
 166.126742    18.627078    3222.810
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <              MOVING              LOAD              >
                                    1805

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -4.585108 -183.630953    -3.499510
-295.814924   -33.517162   -1252.250
 0.25000    -4.585108 -183.622629    -3.499510
-295.797751   -31.501102   -1201.213
 0.50000    -4.585108 -183.614578    -3.499510
-295.781320   -29.849498   -1150.154
 0.75000    -4.585108 -183.606941    -3.499510
-295.766062   -28.827503   -1099.140
 1.00000    -4.585108 -183.599853    -3.499510
-295.752368   -28.394211   -1048.171

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    13.857456    50.956520     5.884802
 150.518833    27.880271    3366.010
 0.25000    13.857456    50.962087     5.884802
 150.532532    26.440436    3467.296
 0.50000    13.857456    50.968183     5.884802
 150.547639    25.121756    3578.891
 0.75000    13.857456    50.974682     5.884802
 150.563801    23.908994    3704.578
 1.00000    13.857456    50.981469     5.884802
 150.580654    22.870708    3837.710

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -7.929617 -207.184206    -4.774871
-425.247321   -78.054863    -1676.855
 0.25000    -7.929617 -207.176714    -4.774871
-425.231865   -77.469940    -1614.565
 0.50000    -7.929617 -207.169468    -4.774871
-425.217077   -77.451562    -1553.034
 0.75000    -7.929617 -207.162596    -4.774871
-425.203345   -78.271657    -1458.726
 1.00000    -7.929617 -207.156216    -4.774871
-425.191021   -79.868872    -1397.861

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    15.699263   111.647138     6.270766
 266.897110    63.850826    4343.605
 0.25000    15.699263   125.099902     6.270766
 272.025861    64.119824    4515.329
 0.50000    15.699263   139.799742     6.270766
 297.428319    64.727662    4667.546
 0.75000    15.699263   155.415021     6.270766
 324.704992    65.668339    4801.849
 1.00000    15.699263   171.649429     6.270766
 352.427662    67.080350    4914.187

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -9.193064 -367.257154    -7.736936
-423.061775   -73.528099    -1886.804
 0.25000    -9.193064 -349.113890    -7.736936
-400.011461   -71.943552    -1811.925
 0.50000    -9.193064 -331.455824    -7.736936
-377.790383   -70.857896    -1737.033
 0.75000    -9.193064 -314.642907    -7.736936
-359.030898   -70.508078    -1635.078
 1.00000    -9.193064 -298.983423    -7.736936
-358.924148   -70.938925    -1561.053

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    6.687987   110.074420     2.372594
 358.737955    70.238426    2443.341
 0.25000    6.687987   126.889482     2.372594
 354.362423    72.477632    2563.338
 0.50000    6.687987   145.227536     2.372594
 349.972136    75.288808    2650.085
 0.75000    6.687987   164.617421     2.372594
 345.581554    78.909645    2702.464
 1.00000    6.687987   184.624922     2.372594
 341.191120    83.283070    2720.761
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <              MOVING              LOAD              >
                                    1806

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -4.419889 -286.103333    -6.625999
-78.521484   -15.249870   -755.006309
 0.25000    -4.419889 -263.349454    -6.625999
-78.536626   -13.219202   -718.937973
 0.50000    -4.419889 -241.051477    -6.625999
-78.536626   -11.208174   -682.169516
 0.75000    -4.419889 -219.704938    -6.625999
-78.536626    -9.360201   -646.055983
 1.00000    -4.419889 -199.764205    -6.625999
-78.536626    -7.734885   -609.986551

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    10.609635   160.012712     3.353317
 482.963602    95.341206    3949.622
 0.25000    10.609635   179.525243     3.353317
 482.477881    98.538205    4107.449
 0.50000    10.609635   200.807737     3.353317
 481.992322   102.373711    4237.598
 0.75000    10.609635   223.335016     3.353317
 481.506427   107.111219    4344.961
 1.00000    10.609635   246.614790     3.353317
 481.020700   112.627838    4420.419

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -6.060111 -414.992252    -8.803924
-165.998284   -21.318448    -1331.925
 0.25000    -6.060111 -388.616940    -8.803924
-165.998284   -18.780212    -1269.402
 0.50000    -6.060111 -362.812863    -8.803924
-165.998284   -16.283813    -1207.135
 0.75000    -6.060111 -338.139758    -8.803924
-165.998284   -13.990865    -1144.920
 1.00000    -6.060111 -315.102739    -8.803924
-165.998284   -11.962166    -1082.881

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    13.627670   156.431731     3.531540
 475.083999    84.746840    4725.126
 0.25000    13.627670   174.323169     3.531540
 475.168571    87.428910    4910.773
 0.50000    13.627670   193.837821     3.531540
 475.253296    90.666306    5071.034
 0.75000    13.627670   214.496637     3.531540
 475.337715    94.701530    5208.870
 1.00000    13.627670   235.849543     3.531540
 475.422288    99.506677    5318.330

 COMB DL-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -7.528329 -444.237074    -9.034072
-279.444268   -33.364984    -1733.799
 0.25000    -7.528329 -420.056542    -9.034072
-279.444268   -29.848630    -1656.882
 0.50000    -7.528329 -396.404415    -9.034072
-279.444268   -26.516498    -1579.739
 0.75000    -7.528329 -373.792392    -9.034072
-279.444268   -23.762189    -1502.694
 1.00000    -7.528329 -352.681076    -9.034072
-279.444268   -21.610415    -1425.780

 COMB DL-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    15.727403   135.138101     5.716404
 399.703683    77.620261    4677.545
 0.25000    15.727403   150.053454     5.716404
 399.791802    78.929389    4858.720
 0.50000    15.727403   166.321841     5.716404
 399.880048    80.741070    5018.777
 0.75000    15.727403   183.544237     5.716404
 399.968040    83.244749    5160.603
 1.00000    15.727403   201.545405     5.716404
 400.056159    86.431675    5278.969
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <              MOVING              LOAD              >
                                    1807

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -9.275442 -409.478195    -9.231871
-364.403567   -65.491824    -1913.604
 0.25000    -9.275442 -389.320122    -9.231871
-364.403567   -62.732235    -1834.619
 0.50000    -9.275442 -369.602710    -9.231871
-364.403567   -60.413677    -1755.497
 0.75000    -9.275442 -350.752488    -9.231871
-364.403567   -58.888679    -1676.455
 1.00000    -9.275442 -333.153354    -9.231871
-364.403567   -58.136477    -1585.337

 COMB     DB ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.301201   195.034166     6.645313
 480.957159    84.232461    4377.088
 0.25000    8.301201   220.983889     6.645313
 480.957159    85.614292    4538.017
 0.50000    8.301201   249.184492     6.645313
 480.957159    88.396355    4682.851
 0.75000    8.301201   279.066383     6.645313
 480.957159    92.696882    4816.299
 1.00000    8.301201   310.042669     6.645313
 480.957159    98.352150    4932.666

 COMB     DB ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -5.394671 -460.972943    -8.549150
-480.966512   -87.552947    -1432.661
 0.25000    -5.394671 -432.276500    -8.549150
-449.401586   -87.521260    -1372.639
 0.50000    -5.394671 -404.311124    -8.549150
-422.916765   -88.896192    -1312.617
 0.75000    -5.394671 -377.570763    -8.549150
-406.534454   -91.692142    -1252.599
 1.00000    -5.394671 -352.587556    -8.549150
-406.509885   -95.760568    -1192.585

 COMB     DL ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    15.884518   160.012712     8.376856
 482.963602    95.341206    4725.126
 0.25000    15.884518   179.525243     8.376856
 482.477881    98.538205    4910.773
 0.50000    15.884518   200.807737     8.376856
 481.992322   102.373711    5071.034
 0.75000    15.884518   223.335016     8.376856
 481.506427   107.111219    5208.870
 1.00000    15.884518   246.614790     8.376856
 481.020700   112.627838    5318.330

 COMB     DL ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -9.328608 -444.237074    -9.231871
-491.398104   -101.490754    -1913.604
 0.25000    -9.328608 -420.056542    -9.231871
-470.278725   -103.139073    -1834.619
 0.50000    -9.328608 -396.404415    -9.231871
-450.020085   -105.479348    -1755.497
 0.75000    -9.328608 -373.792392    -9.231871
-447.430380   -108.777573    -1676.455
 1.00000    -9.328608 -352.681076    -9.231871
-447.036822   -112.745260    -1585.337

 COMB     CAR ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    15.884518   195.034166     8.376856
 482.963602    95.341206    4725.126
 0.25000    15.884518   220.983889     8.376856
 482.477881    98.538205    4910.773
 0.50000    15.884518   249.184492     8.376856
 481.992322   102.373711    5071.034
 0.75000    15.884518   279.066383     8.376856
 481.506427   107.111219    5208.870
 1.00000    15.884518   310.042669     8.376856
 481.020700   112.627838    5318.330
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <              MOVING              LOAD              >
                                    1808

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB     CAR ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -9.328608 -460.972943    -9.231871
-491.398104   -101.490754    -1913.604
 0.25000    -9.328608 -432.276500    -9.231871
-470.278725   -103.139073    -1834.619
 0.50000    -9.328608 -404.311124    -9.231871
-450.020085   -105.479348    -1755.497
 0.75000    -9.328608 -377.570763    -9.231871
-447.430380   -108.777573    -1676.455
 1.00000    -9.328608 -352.681076    -9.231871
-447.036822   -112.745260    -1585.337

 COMB  DESIGN ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    15.884518   195.034166     8.376856
 482.963602    95.341206    4725.126
 0.25000    15.884518   220.983889     8.376856
 482.477881    98.538205    4910.773
 0.50000    15.884518   249.184492     8.376856
 481.992322   102.373711    5071.034
 0.75000    15.884518   279.066383     8.376856
 481.506427   107.111219    5208.870
 1.00000    15.884518   310.042669     8.376856
 481.020700   112.627838    5318.330

 COMB  DESIGN ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    -9.328608 -460.972943    -9.231871
-491.398104   -101.490754    -1913.604
 0.25000    -9.328608 -432.276500    -9.231871
-470.278725   -103.139073    -1834.619
 0.50000    -9.328608 -404.311124    -9.231871
-450.020085   -105.479348    -1755.497
 0.75000    -9.328608 -377.570763    -9.231871
-447.430380   -108.777573    -1676.455
 1.00000    -9.328608 -352.681076    -9.231871
-447.036822   -112.745260    -1585.337

 ELEM      154 ================== LENGTH
=     4.928632

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    3.195273    7.020824     2.867105
 40.655621    7.761011   803.098374
 0.25000    3.195273    7.032987     2.867105
 40.685415    6.256700   810.567813
 0.50000    3.195273    7.046024     2.867105
 40.717591    4.770475   818.594093
 0.75000    3.195273    7.059724     2.867105
 40.751561    3.301043   826.965329
 1.00000    3.195273    7.075241     2.867105
 40.791414    2.455602   836.078422

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -2.341354  -14.614751    -3.081216
-67.945044   -61.717153   -411.084345
 0.25000   -2.341354  -14.599154    -3.081216
-67.905239   -60.813928   -393.835094
 0.50000   -2.341354  -14.585265    -3.081216
-67.871359   -60.581610   -376.585842
 0.75000   -2.341354  -14.571923    -3.081216
-67.839620   -61.020132   -359.336591
 1.00000   -2.341354  -14.559335    -3.081216
-67.810663   -62.094057   -342.101595

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.734024   21.525957     5.253055
 105.511906    9.364540    1670.164
 0.25000    5.734024   21.538115     5.253055
 105.541655    7.827523    1684.733
 0.50000    5.734024   21.551146     5.253055
 105.573785    6.330675    1701.437
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <              MOVING              LOAD              >
                                    1809

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.75000    5.734024   21.564842     5.253055
 105.607709    4.863651    1721.166
 1.00000    5.734024   21.580351     5.253055
 105.647503    4.350120    1743.206

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -3.755028  -38.803458    -5.545730
-152.882539   -95.659085   -752.830177
 0.25000   -3.755028  -38.787870    -5.545730
-152.842793   -93.599962   -720.208627
 0.50000   -3.755028  -38.773985    -5.545730
-152.808958   -92.920977   -687.587078
 0.75000   -3.755028  -38.760648    -5.545730
-152.777292   -93.725449   -654.965528
 1.00000   -3.755028  -38.748064    -5.545730
-152.748378   -95.862998   -622.359149

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    7.710437   52.954362     4.987089
 206.272521   12.118007    2778.071
 0.25000    7.710437   52.965305     4.987089
 206.299305   10.100185    2792.053
 0.50000    7.710437   52.977034     4.987089
 206.328233    8.207289    2817.162
 0.75000    7.710437   52.989386     4.987089
 206.358774    6.417343    2854.952
 1.00000    7.710437   53.003321     4.987089
 206.394603    6.403368    2904.144

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.262823  -86.870435    -5.825144
-260.919212   -86.294554    -1040.736
 0.25000   -4.262823  -86.856404    -5.825144
-260.883427   -83.511021    -993.832172
 0.50000   -4.262823  -86.843907    -5.825144
-260.852965   -82.216005    -946.928292
 0.75000   -4.262823  -86.831902    -5.825144
-260.824450   -82.512468   -900.024412
 1.00000   -4.262823  -86.820576    -5.825144
-260.798417   -84.338301   -853.134239

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    8.536924   128.171491     5.510867
 255.344187   41.987522    3856.032
 0.25000    8.536924   139.529514     5.510867
 277.861259   40.427518    3897.538
 0.50000    8.536924   151.737028     5.510867
 303.429265   39.369631    3935.547
 0.75000    8.536924   164.586642     5.510867
 331.074780   38.881823    3978.826
 1.00000    8.536924   178.844279     5.510867
 363.960168   40.227284    4021.678

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -4.574798  -229.635925    -7.028143
-393.200924   -75.156122    -1170.193
 0.25000   -4.574798  -215.297868    -7.028143
-361.626447   -72.644938    -1115.687
 0.50000   -4.574798  -202.259950    -7.028143
-334.280159   -71.387037    -1061.182
 0.75000   -4.574798  -189.749616    -7.028143
-308.367920   -71.455801    -1006.676
 1.00000   -4.574798  -177.972355    -7.028143
-289.171083   -72.799317    -952.182545

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    2.953670   23.896219     2.234476
 94.610685    1.521319    1161.252
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
 <              MOVING              LOAD              >
                                    1810

 F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P          V2          V3
        T          M2          M3
 0.25000    2.953670   24.029677     2.234476
 94.938045    1.282846    1168.382
 0.50000    2.953670   24.173332     2.234476
 95.291599    1.423765    1179.087
 0.75000    2.953670   24.323999     2.234476
 95.664889    1.567593    1196.048
 1.00000    2.953670   24.494618     2.234476
 96.102790    1.714594    1215.951

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000   -1.353995  -39.812969    -2.482896
-117.526702   -28.083900   -405.322844
 0.25000   -1.353995  -39.641474    -2.482896
-117.089332   -26.730710   -386.590458
 0.50000   -1.353995  -39.488734    -2.482896
-116.717025   -26.070970   -367.858073
 0.75000   -1.353995  -39.342010    -2.482896
-116.368499   -26.287145   -349.125688
 1.00000   -1.353995  -39.203576    -2.482896
-116.050326   -27.153842   -330.393304

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T          M2          M3
 0.00000    5.732466   79.352487     2.452875
 240.490622   15.171570    2751.274
 0.25000    5.732466   79.364647     2.452875
 240.520382   14.742441    2745.064
 0.50000    5.732466   79.377679     2.452875
 240.552523   14.536952    2760.846
 0.75000    5.732466   79.391376     2.452875
```

240.586459 14.532287 2808.275
1.00000 5.732466 79.406887 2.452875
240.626268 15.714062 2877.599

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.269726 -117.845269 -3.486043
-266.280804 -25.088108 -800.900843
0.25000 -2.269726 -117.829679 -3.486043
-266.241043 -23.087599 -762.647052
0.50000 -2.269726 -117.815794 -3.486043
-266.207197 -21.925482 -724.393261
0.75000 -2.269726 -117.802455 -3.486043
-266.175512 -21.703320 -686.139471
1.00000 -2.269726 -117.789870 -3.486043
-266.146588 -22.386813 -647.886100

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.701443 78.195882 4.590111
254.178867 18.097563 3163.781
0.25000 7.701443 78.206825 4.590111
254.205651 16.777568 3164.824
0.50000 7.701443 78.218554 4.590111
254.234578 15.678214 3185.959
0.75000 7.701443 78.230882 4.590111
254.265120 14.791131 3236.234
1.00000 7.701443 78.244842 4.590111
254.300948 15.949782 3306.788

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.814722 -119.153955 -5.606371
-298.560916 -67.951657 -1052.075
0.25000 -3.814722 -119.139923 -5.606371
-298.525131 -65.373297 -1003.492
0.50000 -3.814722 -119.127426 -5.606371
-298.494670 -64.112755 -954.909137
0.75000 -3.814722 -119.115422 -5.606371
-298.466154 -64.294554 -906.326047
1.00000 -3.814722 -119.104095 -5.606371
-298.440122 -65.843140 -857.750718
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1811

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.510149 165.993127 5.724500
289.856890 57.922547 4321.763
0.25000 8.510149 183.388963 5.724500
291.112846 56.702793 4384.376
0.50000 8.510149 202.156955 5.724500
316.882997 56.213940 4431.693
0.75000 8.510149 221.953723 5.724500
340.545913 56.700153 4473.200
1.00000 8.510149 243.304265 5.724500
361.641816 59.320178 4504.460

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.603432 -302.037612 -7.518147
-373.251944 -59.918701 -1182.247
0.25000 -4.603432 -280.551227 -7.518147
-351.595444 -57.428403 -1126.047
0.50000 -4.603432 -260.440208 -7.518147
-327.302799 -56.028830 -1069.848
0.75000 -4.603432 -241.172348 -7.518147
-304.589529 -55.834868 -1013.649
1.00000 -4.603432 -223.088594 -7.518147
-304.589529 -56.783792 -957.455726

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.209568 158.917343 3.404962
237.192194 74.695515 2670.359
0.25000 3.209568 181.056950 3.404962
237.192194 74.289762 2746.393
0.50000 3.209568 205.137686 3.404962
237.192194 74.984912 2785.970
0.75000 3.209568 230.641376 3.404962
237.192194 76.822004 2791.004
1.00000 3.209568 256.597992 3.404962
237.192194 79.729529 2770.469

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.500317 -295.162035 -4.910393
-189.270422 -5.683564 -468.119348
0.25000 -2.500317 -269.000609 -4.910393
-189.270422 -5.051373 -443.951086
0.50000 -2.500317 -243.030666 -4.910393
-189.270422 -4.423036 -419.782823
0.75000 -2.500317 -218.221613 -4.910393
-189.270422 -3.798820 -395.614561
1.00000 -2.500317 -195.088958 -4.910393
-189.270422 -3.179046 -371.446300

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.706537 229.332577 4.391758
351.471601 98.749735 4263.524
0.25000 5.706537 255.829232 4.391758
351.471601 98.663373 4339.766
0.50000 5.706537 284.567496 4.391758
351.471601 99.923441 4386.409
0.75000 5.706537 314.970273 4.391758
351.471601 102.669853 4419.433
1.00000 5.706537 346.444419 4.391758
351.471601 106.716277 4430.598

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.412547 -408.113428 -6.624824
-299.778448 -9.172743 -823.459730
0.25000 -3.412547 -376.405132 -6.624824
-299.778448 -8.411657 -781.498744
0.50000 -3.412547 -345.468227 -6.624824
-299.778448 -7.668381 -739.537757
0.75000 -3.412547 -315.891129 -6.624824
-299.778448 -6.956540 -697.576771
1.00000 -3.412547 -288.248337 -6.624824
-299.778448 -6.271925 -655.618570
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1812

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.656402 230.093450 4.810350
404.128511 87.893734 4932.233
0.25000 7.656402 254.401373 4.810350
404.128511 87.046199 5008.367
0.50000 7.656402 280.758221 4.810350
404.128511 87.447291 5062.287
0.75000 7.656402 308.638538 4.810350
404.128511 89.246979 5106.535
1.00000 7.656402 337.550533 4.810350
404.128511 93.261414 5135.703

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.077660 -408.403834 -7.269542
-374.725227 -17.393504 -1094.038
0.25000 -4.077660 -379.278042 -7.269542
-374.725227 -15.573894 -1039.641
0.50000 -4.077660 -350.909921 -7.269542
-374.725227 -13.858682 -985.245152
0.75000 -4.077660 -323.786556 -7.269542
-374.725227 -12.914344 -930.848863
1.00000 -4.077660 -298.431075 -7.269542
-374.725227 -12.512233 -876.452925

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.503930 199.518152 6.064785
377.021237 75.461224 4742.520
0.25000 8.503930 219.784880 6.064785
377.021237 74.391540 4812.444
0.50000 8.503930 241.759649 6.064785
377.021237 74.390046 4864.057
0.75000 8.503930 265.004493 6.064785
377.021237 75.658073 4908.193
1.00000 8.503930 289.111120 6.064785
377.021237 79.125413 4940.309

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.764433 -354.753846 -8.145545
-370.090873 -48.518153 -1192.645
0.25000 -4.764433 -330.468998 -8.145545
-370.090873 -46.012906 -1135.032
0.50000 -4.764433 -306.817521 -8.145545
-370.090873 -44.474005 -1077.419
0.75000 -4.764433 -284.203769 -8.145545
-370.090873 -44.026095 -1019.806
1.00000 -4.764433 -263.063770 -8.145545
-370.090873 -44.598321 -962.195587

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.767113 10.921427 3.789763
38.131152 10.041011 1105.012
0.25000 6.767113 10.927889 3.789763
38.145689 8.364870 1106.726
0.50000 6.767113 10.934937 3.789763
38.161781 6.744104 1108.424
0.75000 6.767113 10.942439 3.789763
38.179042 5.238101 1110.122
1.00000 6.767113 10.950239 3.789763
38.197030 4.153239 1112.040

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.370582 -27.928216 -3.085675
-91.396834 -73.625549 -544.420465
0.25000 -4.370582 -27.920068 -3.085675
-91.379120 -73.058260 -521.474046
0.50000 -4.370582 -27.912199 -3.085675
-91.362155 -72.816609 -498.529223
0.75000 -4.370582 -27.904754 -3.085675
-91.346356 -73.009754 -475.584877
1.00000 -4.370582 -27.897860 -3.085675
-91.332127 -73.691464 -452.636957
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1813

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.535869 27.047367 6.303376
94.730535 12.543589 2224.175
0.25000 11.535869 27.053826 6.303376
94.745044 10.474098 2230.576
0.50000 11.535869 27.060871 6.303376
94.761108 8.855532 2237.109
0.75000 11.535869 27.068367 6.303376
94.778335 7.749777 2243.933
1.00000 11.535869 27.076167 6.303376
94.796296 6.807690 2251.268

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.229753 -62.898735 -5.650241
-180.349513 -111.430632 -991.326983
0.25000 -7.229753 -62.890590 -5.650241
-180.331831 -110.018141 -948.265708
0.50000 -7.229753 -62.882727 -5.650241
-180.314898 -109.424806 -905.182874
0.75000 -7.229753 -62.875183 -5.650241
-180.299127 -110.020990 -862.083250
1.00000 -7.229753 -62.868391 -5.650241
-180.284926 -111.587147 -818.996972

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.309826 59.900016 5.841704
187.968010 16.266504 3554.206
0.25000 14.309826 60.086026 5.841704
188.385692 14.202031 3565.151
0.50000 14.309826 60.288893 5.841704
188.848125 12.606720 3579.345
0.75000 14.309826 60.504763 5.841704
189.344052 11.413348 3597.552
1.00000 14.309826 60.729365 5.841704
189.861073 11.134928 3619.097

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.991196 -120.298833 -5.737332
-274.052141 -100.700223 -1382.289
0.25000 -7.991196 -120.064283 -5.737332
-273.504333 -98.143375 -1313.817
0.50000 -7.991196 -119.837850 -5.737332
-273.055663 -97.727165 -1257.339
0.75000 -7.991196 -119.623470 -5.737332
-272.601693 -97.918486 -1194.832
1.00000 -7.991196 -119.425009 -5.737332
-272.192895 -99.255985 -1132.379

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.501756 119.090950 6.214216
250.810213 50.224911 4505.280
0.25000 15.501756 128.465190 6.214216
268.926174 49.002427 4545.116
0.50000 15.501756 138.680862 6.214216
289.141519 48.288793 4573.807
0.75000 15.501756 149.535338 6.214216
310.868430 48.065752 4593.985
1.00000 15.501756 160.809914 6.214216
333.449691 48.811878 4602.819

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.357126 -237.643669 -6.949556
-375.315745 -88.063184 -1533.243
0.25000 -8.357126 -225.849475 -6.949556
-353.237098 -86.096907 -1461.862
0.50000 -8.357126 -214.425676 -6.949556
-332.060274 -84.940718 -1390.476
0.75000 -8.357126 -203.598432 -6.949556
-312.358614 -84.888422 -1319.058
1.00000 -8.357126 -193.562663 -6.949556
-294.792177 -85.867458 -1247.697
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1814

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.146476 24.583093 2.275673
81.285752 2.396961 1427.874
0.25000 5.146476 24.647686 2.275673
81.430848 1.868945 1434.650
0.50000 5.146476 24.718133 2.275673
81.591486 1.957953 1442.172
0.75000 5.146476 24.793095 2.275673
81.763758 2.248656 1449.783
1.00000 5.146476 24.871090 2.275673
81.943359 2.716949 1458.251

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.792743 -49.649178 -2.513205
-111.845181 -30.457684 -525.187044
0.25000 -2.792743 -49.567728 -2.513205
-111.668361 -29.246815 -500.892941
0.50000 -2.792743 -49.489098 -2.513205
-111.499024 -28.565574 -476.574192
0.75000 -2.792743 -49.414654 -2.513205
-111.341322 -28.980605 -452.241681
1.00000 -2.792743 -49.345738 -2.513205
-111.199310 -29.910074 -427.931580

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.286346 78.609621 2.442442
219.051716 18.773432 3223.130
0.25000 9.286346 78.616082 2.442442
219.066245 18.478658 3226.110
0.50000 9.286346 78.623129 2.442442
219.082330 18.613439 3236.878
0.75000 9.286346 78.630627 2.442442
219.099583 19.101235 3265.931
1.00000 9.286346 78.638429 2.442442
219.117564 20.178468 3302.459

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.205954 -134.828398 -3.350269
-242.757651 -27.655628 -1048.200
0.25000 -4.205954 -134.820251 -3.350269
-242.739944 -26.057761 -998.144179
0.50000 -4.205954 -134.812384 -3.350269
-242.722987 -25.083127 -948.087696
0.75000 -4.205954 -134.804939 -3.350269
-242.707196 -24.997320 -897.949878
1.00000 -4.205954 -134.798046 -3.350269
-242.692974 -25.637932 -847.879726

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.602396 80.483615 5.103316
232.251613 22.674086 3838.415
0.25000 13.602396 80.489430 5.103316
232.264690 21.506557 3843.394
0.50000 13.602396 80.495772 5.103316
232.279166 20.725430 3857.150
0.75000 13.602396 80.502520 5.103316
232.294694 20.380467 3883.772
1.00000 13.602396 80.509542 5.103316
232.310877 21.093115 3919.180

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.150469 -145.730477 -5.543168
-293.355657 -77.469577 -1816.824
0.25000 -7.150469 -145.723145 -5.543168
-293.369722 -76.758779 -1316.352
0.50000 -7.150469 -145.716064 -5.543168
-293.354461 -75.714951 -1252.594
0.75000 -7.150469 -145.709364 -5.543168
-293.340248 -75.834319 -1188.801
1.00000 -7.150469 -145.703160 -5.543168
-293.327448 -77.032682 -1125.086
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1815

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.368497 147.966452 6.065460
271.182975 67.384423 4914.412
0.25000 15.368497 162.084983 6.065460
276.420633 66.790674 4974.305
0.50000 15.368497 177.443896 6.065460
299.650092 66.818504 5012.989
0.75000 15.368497 193.732822 6.065460
324.731442 67.549241 5032.623
1.00000 15.368497 210.603557 6.065460
350.637418 69.386578 5030.736

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.233352 -295.127868 -7.492409
-361.543447 -70.118991 -1561.074
0.25000 -8.233352 -277.417553 -7.492409
-336.664350 -67.970815 -1472.961
0.50000 -8.233352 -260.197340 -7.492409
-312.608617 -66.588468 -1399.576
0.75000 -8.233352 -243.837073 -7.492409
-290.423792 -66.306182 -1326.156
1.00000 -8.233352 -228.658063 -7.492409
-287.700607 -66.986748 -1252.859

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.467373 128.335195 3.219963
239.998642 83.525804 2720.121
0.25000 6.467373 146.086288 3.219963
238.438638 84.115724 2791.239
0.50000 6.467373 165.354232 3.219963
235.939367 85.080003 2828.499
0.75000 6.467373 185.698935 3.219963
232.134208 86.900335 2830.644
1.00000 6.467373 206.635400 3.219963
227.743248 89.335811 2798.124

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.886457 -253.653256 -4.997793
-167.997637 -7.985016 -610.048359
0.25000 -3.886457 -231.479668 -4.997793
-171.128592 -6.851676 -578.779504
0.50000 -3.886457 -209.784408 -4.997793
-173.019427 -5.942246 -547.462528
0.75000 -3.886457 -189.066712 -4.997793
-173.606036 -5.239605 -516.239269
1.00000 -3.886457 -169.793242 -4.997793
-173.606036 -4.626283 -484.251303

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.387630 192.359796 4.264692
355.154972 113.695539 4419.647
0.25000 10.387630 212.930750 4.264692
355.154972 114.467993 4492.486
0.50000 10.387630 235.263427 4.264692
354.877904 116.097143 4536.304
0.75000 10.387630 258.868227 4.264692
354.391696 118.708004 4555.376
1.00000 10.387630 283.197195 4.264692
353.905911 121.977206 4544.362

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.390417 -359.874803 -6.750168
-274.113123 -12.336192 -1083.006
0.25000 -5.390417 -334.158669 -6.750168
-274.598908 -11.019582 -1028.126
0.50000 -5.390417 -309.037320 -6.750168
-274.806942 -9.973557 -973.225123
0.75000 -5.390417 -285.079615 -6.750168
-274.806942 -9.200884 -911.274950
1.00000 -5.390417 -262.794626 -6.750168
-274.806942 -8.565317 -856.796300
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1816

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.434235 197.590115 4.654601
393.691460 100.396164 5317.878
0.25000 13.434235 216.448850 4.654601
393.691460 100.561314 5393.204
0.50000 13.434235 236.923120 4.654601
393.738874 101.629164 5441.514
0.75000 13.434235 258.566484 4.654601
393.822943 103.720213 5465.904
1.00000 13.434235 280.878052 4.654601
393.907526 107.012031 5462.069

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.766913 -373.489263 -7.235712
-341.358461 -21.445985 -1425.887
0.25000 -6.766913 -349.911287 -7.235712
-341.273879 -19.146817 -1355.226
0.50000 -6.766913 -326.883250 -7.235712
-341.236242 -17.421367 -1284.558
0.75000 -6.766913 -304.925139 -7.235712
-341.236242 -16.531862 -1213.854
1.00000 -6.766913 -284.501256 -7.235712
-341.236242 -16.266788 -1143.172

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.415174 174.503558 6.217998
364.148723 86.923839 5278.920
0.25000 15.415174 190.225106 6.217998
364.148723 86.544441 5344.634
0.50000 15.415174 207.293456 6.217998
364.197965 87.077942 5387.771
0.75000 15.415174 225.336515 6.217998
364.285663 88.611151 5410.980
1.00000 15.415174 243.936763 6.217998
364.373793 91.415331 5410.850

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.299730 -334.870245 -8.230112
-351.109653 -57.461915 -1585.374
0.25000 -8.299730 -315.214434 -8.230112
-351.411523 -55.043316 -1509.247
0.50000 -8.299730 -296.017233 -8.230112
-351.372250 -53.436609 -1433.098
0.75000 -8.299730 -277.712079 -8.230112
-351.372250 -52.930760 -1356.922
1.00000 -8.299730 -260.685955 -8.230112
-351.372250 -53.312442 -1280.824

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.536924 230.093450 6.064785
404.128511 98.749735 4932.233
0.25000 8.536924 255.829232 6.064785
404.128511 98.663373 5008.367
0.50000 8.536924 284.567496 6.064785
404.128511 99.923441 5062.287
0.75000 8.536924 314.970273 6.064785
404.128511 102.669853 5135.535
1.00000 8.536924 346.444419 6.064785
404.128511 106.716277 5135.703

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.764433 -408.403834 -8.145545
-393.200924 -95.659085 -1192.645
0.25000 -4.764433 -379.278042 -8.145545
-374.725227 -93.599962 -1135.032
0.50000 -4.764433 -350.909921 -8.145545
-374.725227 -92.920977 -1077.419
0.75000 -4.764433 -323.786556 -8.145545
-374.725227 -93.725449 -1019.806
1.00000 -4.764433 -298.431075 -8.145545
-374.725227 -95.862998 -962.195587
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1817

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.501756 197.590115 6.303376
393.691460 113.695539 5317.878
0.25000 15.501756 216.448850 6.303376
393.691460 114.467993 5393.204
0.50000 15.501756 236.923120 6.303376
393.738874 116.097143 5441.514
0.75000 15.501756 258.868227 6.303376
393.822943 118.708004 5465.904
1.00000 15.501756 283.197195 6.303376
393.907526 121.977206 5462.069

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.357126 -373.489263 -8.230112

```
-375.315745 -111.430632   -1585.374
 0.25000    -8.357126  -349.911287    -8.230112
-353.237098 -110.018141   -1509.247
 0.50000    -8.357126  -326.883250    -8.230112
-351.372250 -109.424806   -1433.098
 0.75000    -8.357126  -304.925139    -8.230112
-351.372250 -110.020990   -1356.922
 1.00000    -8.357126  -284.501256    -8.230112
-351.372250 -111.587147   -1280.824

 COMB      CAR  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    15.501756  230.093450    6.303376
404.128511  113.695539    5317.878
 0.25000    15.501756  255.829232    6.303376
404.128511  114.467993    5393.204
 0.50000    15.501756  284.567496    6.303376
404.128511  116.097143    5441.514
 0.75000    15.501756  314.970273    6.303376
404.128511  118.708004    5465.904
 1.00000    15.501756  346.444419    6.303376
404.128511  121.977206    5462.069

 COMB      CAR  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -8.357126 -408.403834    -8.230112
-393.200924 -111.430632   -1585.374
 0.25000    -8.357126 -379.278042    -8.230112
-374.725227 -110.018141   -1509.247
 0.50000    -8.357126 -350.909921    -8.230112
-374.725227 -109.424806   -1433.098
 0.75000    -8.357126 -323.786556    -8.230112
-374.725227 -110.020990   -1356.922
 1.00000    -8.357126 -298.431075    -8.230112
-374.725227 -111.587147   -1280.824

 COMB    DESIGN  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    15.501756  230.093450    6.303376
404.128511  113.695539    5317.878
 0.25000    15.501756  255.829232    6.303376
404.128511  114.467993    5393.204
 0.50000    15.501756  284.567496    6.303376
404.128511  116.097143    5441.514
 0.75000    15.501756  314.970273    6.303376
404.128511  118.708004    5465.904
 1.00000    15.501756  346.444419    6.303376
404.128511  121.977206    5462.069

 COMB    DESIGN  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -8.357126 -408.403834    -8.230112
-393.200924 -111.430632   -1585.374
 0.25000    -8.357126 -379.278042    -8.230112
-374.725227 -110.018141   -1509.247
 0.50000    -8.357126 -350.909921    -8.230112
-374.725227 -109.424806   -1433.098
 0.75000    -8.357126 -323.786556    -8.230112
-374.725227 -110.020990   -1356.922
 1.00000    -8.357126 -298.431075    -8.230112
-374.725227 -111.587147   -1280.824
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1818

 F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

 ELEM       155 ================== LENGTH
=     4.928151

 COMB DB-G1-1  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.022690   21.648801    0.974932
129.236480   2.122573   835.912033
 0.25000    3.022690   21.661158    0.974932
129.265409   2.085073   815.614204
 0.50000    3.022690   21.674389    0.974932
129.296490   2.608803   795.781540
 0.75000    3.022690   21.688289    0.974932
129.329024   3.137408   776.347813
 1.00000    3.022690   21.704005    0.974932
129.368663   3.665377   756.990971

 COMB DB-G1-1  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -1.970739  -16.153915   -4.466578
-46.122058  -62.486351  -341.943124
 0.25000    -1.970739  -16.138101   -4.466578
-46.082322  -59.442214  -322.247908
 0.50000    -1.970739  -16.123977   -4.466578
-46.048470  -56.398867  -302.552693
 0.75000    -1.970739  -16.110379   -4.466578
-46.016421  -55.062660  -282.857477
 1.00000    -1.970739  -16.097509   -4.466578
-45.986777  -53.753210  -263.162261

 COMB DB-G1-2  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.471350   49.510689    3.676864
247.042499   3.548634   1742.941
 0.25000    5.471350   49.523040    3.676864
247.071383   3.848481   1703.758
 0.50000    5.471350   49.536267    3.676864
247.102421   4.674821   1666.597
 0.75000    5.471350   49.550162    3.676864
247.134911   5.508993   1631.723
 1.00000    5.471350   49.565870    3.676864
247.174458   6.474020   1598.878

 COMB DB-G1-2  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -3.162942  -30.754470   -7.048595
-80.620043  -96.449567  -622.131798
 0.25000    -3.162942  -30.738664   -7.048595
-80.580366  -92.413566  -586.156423
 0.50000    -3.162942  -30.724545   -7.048595
-80.546560  -89.705993  -550.181047
 0.75000    -3.162942  -30.710951   -7.048595
-80.514556  -88.482711  -514.205672
 1.00000    -3.162942  -30.698086   -7.048595
-80.484958  -88.749336  -478.230297

 COMB DB-G1-3  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.393249   93.142677    3.878224
344.866208   5.300989   2903.901
 0.25000    7.393249   93.153790    3.878224
344.892214   5.989087   2837.658
 0.50000    7.393249   93.165694    3.878224
344.920157   7.248281   2781.216
 0.75000    7.393249   93.178201    3.878224
344.949408   8.658936   2736.041
 1.00000    7.393249   93.192340    3.878224
344.985021   10.342873   2701.099

 COMB DB-G1-3  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -3.665629  -59.782620   -7.010393
-181.687625  -85.050807  -852.952880
 0.25000    -3.665629  -59.768393   -7.010393
-181.651903  -80.914612  -803.395765
 0.50000    -3.665629  -59.755685   -7.010393
-181.621467  -78.373722  -753.838650
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1819

 F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.75000    -3.665629  -59.743450   -7.010393
-181.592654  -77.560765  -704.281535
 1.00000    -3.665629  -59.731870   -7.010393
-181.566005  -78.275839  -654.724420

 COMB DB-G1-4  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.209434   174.279282    4.838764
342.809658   39.213276   4021.461
 0.25000    8.209434   185.826587    4.838764
359.774257   39.446709   3971.878
 0.50000    8.209434   198.224515    4.838764
381.478316   40.502087   3919.170
 0.75000    8.209434   211.269118    4.838764
408.744096   42.225551   3866.790
 1.00000    8.209434   225.723183    4.838764
439.930552   44.433676   3809.713

 COMB DB-G1-4  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -3.927467  -192.688855   -7.782847
-368.658172  -73.285389  -952.115616
 0.25000    -3.927467  -178.136236   -7.782847
-335.899880  -69.768934  -896.575225
 0.50000    -3.927467  -164.865700   -7.782847
-307.577053  -67.584956  -841.036833
 0.75000    -3.927467  -152.101074   -7.782847
-282.548647  -66.850619  -785.497442
 1.00000    -3.927467  -140.044577   -7.782847
-259.989814  -67.399420  -729.958051

 COMB DB-G2-1  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    2.858514   40.183757    2.813460
141.617885   1.413165   1215.877
 0.25000    2.858514   40.319639    2.813460
141.935739   1.666128   1190.665
 0.50000    2.858514   40.465140    2.813460
142.277268   1.991686   1168.806
 0.75000    2.858514   40.618003    2.813460
142.634781   2.490944   1150.090
 1.00000    2.858514   40.790814    2.813460
143.070051   3.161341   1135.002

 COMB DB-G2-1  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -1.182004  -21.800763   -2.403346
-63.290925  -27.359750  -330.349440
 0.25000    -1.182004  -21.626881   -2.403346
-62.854319  -26.565201  -311.089614
 0.50000    -1.182004  -21.471557   -2.403346
-62.482323  -26.536697  -291.829789
 0.75000    -1.182004  -21.322013   -2.403346
-62.160160  -27.420868  -272.569963
 1.00000    -1.182004  -21.180485   -2.403346
-61.804454  -29.468324  -253.310137

 COMB DB-G2-2  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.542899   112.282632    3.253941
278.678576   15.012114   2877.543
 0.25000    5.542899   112.294985    3.253941
278.707472   15.661637   2803.156
 0.50000    5.542899   112.308212    3.253941
278.738520   16.541859   2749.896
 0.75000    5.542899   112.322109    3.253941
278.771021   17.712180   2725.222
 1.00000    5.542899   112.337819    3.253941
278.810591   19.275435   2722.531

 COMB DB-G2-2  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -2.019007  -78.670765   -3.349215
-219.215132  -22.668374  -647.901877
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1820

 F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

 REL DIST          P          V2          V3
      T          M2          M3
 0.25000    -2.019007  -78.654958   -3.349215
-219.175440  -21.485516  -609.974591
 0.50000    -2.019007  -78.640837   -3.349215
-219.141622  -21.367107  -572.047305
 0.75000    -2.019007  -78.627242   -3.349215
-219.109608  -22.412154  -534.120018
 1.00000    -2.019007  -78.614376   -3.349215
-219.079998  -24.446348  -496.192732

 COMB DB-G2-3  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.407852   119.840140    4.441713
355.966278   14.741658   3306.609
 0.25000    7.407852   119.851258    4.441713
355.992285   15.602700   3223.019
 0.50000    7.407852   119.863162    4.441713
356.020228   16.789006   3158.809
 0.75000    7.407852   119.875669    4.441713
356.049479   18.240688   3120.795
 1.00000    7.407852   119.889808    4.441713
356.085092   20.030009   3103.041

 COMB DB-G2-3  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -3.309796  -83.762109   -6.261273
-231.247266  -66.374657  -857.650340
 0.25000    -3.309796  -83.747883   -6.261273
-231.201544  -63.427339  -807.567260
 0.50000    -3.309796  -83.735174   -6.261273
-231.181108  -61.962017  -757.684180
 0.75000    -3.309796  -83.722939   -6.261273
-231.152295  -62.123787  -707.701101
 1.00000    -3.309796  -83.711359   -6.261273
-231.125646  -63.692529  -657.718021

 COMB DB-G2-4  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.218095   213.060545    6.017134
314.597009   58.215594   4504.390
 0.25000    8.218095   230.764166    6.017134
314.836261   58.159548   4474.332
 0.50000    8.218095   249.841771    6.017134
340.508783   58.897387   4430.235
 0.75000    8.218095   269.955163    6.017134
364.059100   60.603322   4373.938
 1.00000    8.218095   291.628190    6.017134
385.082160   63.035416   4300.279

 COMB DB-G2-4  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -3.946764  -258.854795   -7.476456
-375.927488  -57.118421  -957.469757
 0.25000    -3.946764  -237.014791   -7.476456
-354.639504  -54.524526  -901.473139
 0.50000    -3.946764  -216.519709   -7.476456
-330.738270  -53.174451  -845.476521
 0.75000    -3.946764  -196.837279   -7.476456
-305.350472  -53.184546  -789.479904
 1.00000    -3.946764  -178.285055   -7.476456
-305.350472  -54.360668  -733.483286

 COMB DB-G3-1  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.144617   177.604190    4.170614
125.779848   79.599362   2770.879
 0.25000    3.144617   200.181710    4.170614
125.779848   77.996510   2812.640
 0.50000    3.144617   224.702437    4.170614
125.779848   77.355476   2820.464
 0.75000    3.144617   250.655415    4.170614
125.779848   77.830440   2790.110
 1.00000    3.144617   277.077303    4.170614
125.779848   79.295662   2720.561
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1821

 F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

 COMB DB-G3-1  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -2.095941  -274.258023   -3.797401
-294.835701  -3.002100  -371.602180
 0.25000    -2.095941  -247.582639   -3.797401
-294.835701  -2.778980  -349.637254
 0.50000    -2.095941  -221.052894   -3.797401
-294.835701  -2.563064  -327.672340
 0.75000    -2.095941  -195.629156   -3.797401
-294.835701  -2.353797  -305.707489
 1.00000    -2.095941  -171.819386   -3.797401
-294.835701  -2.151447  -283.742638

 COMB DB-G3-2  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    5.557066   262.932921    5.237843
215.127651  106.453078   4430.995
 0.25000    5.557066   289.936736    5.237843
215.127651  104.739516   4441.592
 0.50000    5.557066   319.185187    5.237843
215.127651  104.327212   4427.425
 0.75000    5.557066   350.108811    5.237843
215.127651  105.306514   4389.789
 1.00000    5.557066   382.120639    5.237843
215.127651  107.508086   4321.013

 COMB DB-G3-2  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -2.906855  -369.280171   -5.609931
-428.278200  -5.970942  -655.849031
 0.25000    -2.906855  -336.979589   -5.609931
-428.278200  -5.706155  -617.144086
 0.50000    -2.906855  -305.398036   -5.609931
-428.278200  -5.465632  -578.439141
 0.75000    -2.906855  -275.113571   -5.609931
-428.278200  -5.289154  -539.734196
 1.00000    -2.906855  -246.691627   -5.609931
-428.278200  -5.142961  -501.029251

 COMB DB-G3-3  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.444066   274.773515    6.139942
310.646616   92.654633   5136.028
 0.25000    7.444066   299.545143    6.139942
310.646616   91.562142   5123.926
 0.50000    7.444066   326.368522    6.139942
310.646616   91.714854   5091.137
 0.75000    7.444066   354.725107    6.139942
310.646616   93.252203   5040.117
 1.00000    7.444066   384.128604    6.139942
310.646616   96.043472   4963.927

 COMB DB-G3-3  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -3.518968  -354.957856   -6.016333
-455.609963  -12.522934  -4076.648229
 0.25000    -3.518968  -325.290808   -6.016333
-455.609963  -11.560401  -825.076136
 0.50000    -3.518968  -296.333624   -6.016333
-455.609963  -11.256018  -773.504043
 0.75000    -3.518968  -268.563932   -6.016333
-455.609963  -11.672031  -721.931950
 1.00000    -3.518968  -242.496540   -6.016333
-455.609963  -12.739899  -670.359856

 COMB DB-G3-4  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.238935   247.277208    7.031110
351.322331   78.098779   4940.479
 0.25000    8.238935   267.930498    7.031110
351.322331   77.478923   4916.345
 0.50000    8.238935   290.294187    7.031110
351.322331   77.891066   4875.619
 0.75000    8.238935   313.936067    7.031110
351.322331   79.454217   4826.025
 1.00000    8.238935   338.452426    7.031110
351.322331   82.121562   4743.781
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1822

 F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

 COMB DB-G3-4  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -4.082053  -306.635432   -7.458542
-403.597018  -44.809319  -962.277688
 0.25000    -4.082053  -281.899383   -7.458542
-403.597018  -42.819110  -905.884261
 0.50000    -4.082053  -257.756852   -7.458542
-403.597018  -41.962185  -849.490833
 0.75000    -4.082053  -234.604312   -7.458542
-403.597018  -42.378348  -793.097406
 1.00000    -4.082053  -212.870852   -7.458542
-403.597018  -43.876223  -736.703978

 COMB DL-G1-1  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    6.123560   31.014384    1.849480
155.987728   3.379474   1111.851
 0.25000    6.123560   31.021103    1.849480
156.001509   3.318426   1078.732
 0.50000    6.123560   31.028424    1.849480
156.016852   3.895803   1045.672
 0.75000    6.123560   31.036196    1.849480
156.033364   4.765794   1012.601
 1.00000    6.123560   31.044286    1.849480
156.050617   5.772449   979.647471

 COMB DL-G1-1  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -3.738408  -22.777428   -4.913304
-58.547722  -73.360288  -452.506827
 0.25000    -3.738408  -22.769457   -4.913304
-58.529322  -69.937348  -426.453099
 0.50000    -3.738408  -22.761766   -4.913304
-58.511681  -66.999208  -400.408927
 0.75000    -3.738408  -22.754493   -4.913304
-58.495185  -64.640643  -374.394483
 1.00000    -3.738408  -22.747784   -4.913304
-58.480223  -62.640535  -348.337092

 COMB DL-G1-2  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    10.552729   63.183344    4.517256
278.547639   5.410537   2250.938
 0.25000    10.552729   63.190066    4.517256
278.561392   5.825581   2189.706
 0.50000    10.552729   63.197379    4.517256
278.576705   6.774240   2129.541
 0.75000    10.552729   63.205148    4.517256
278.593186   8.075760   2069.822
 1.00000    10.552729   63.213235    4.517256
278.610406   9.682520   2010.688

 COMB DL-G1-2  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -6.201008  -44.528137   -7.566742
-101.910485  -110.841115  -818.611187
 0.25000    -6.201008  -44.520170   -7.566742
-101.892116  -107.150480  -771.486011
 0.50000    -6.201008  -44.512481   -7.566742
-101.874505  -104.419155  -724.194609
 0.75000    -6.201008  -44.505211   -7.566742
-101.858037  -103.008972  -676.858293
 1.00000    -6.201008  -44.498504   -7.566742
-101.843102  -102.300978  -629.518617

 COMB DL-G1-3  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    13.243924  109.741236    4.609781
369.381090   9.438325   3618.781
 0.25000    13.243924  109.934821    4.609781
369.777085   9.846113   3530.306
 0.50000    13.243924  110.145395    4.609781
370.217776   10.996897   3444.811
 0.75000    13.243924  110.369132    4.609781
370.692212   12.733674   3362.642
 1.00000    13.243924  110.604704    4.609781
371.187908   14.971393   3284.331
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1823

 F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

 COMB DL-G1-3  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -6.918504  -83.008730   -7.399001
-183.454874  -98.409591   -1132.241
 0.25000    -6.918504  -82.779303   -7.399001
-182.926065  -94.836469   -1066.486
 0.50000    -6.918504  -82.557891   -7.399001
-182.419091  -92.427965   -1000.869
 0.75000    -6.918504  -82.348545   -7.399001
-181.945015  -91.495663  -935.080614
 1.00000    -6.918504  -82.155395   -7.399001
-181.515053  -91.524614  -869.285127

 COMB DL-G1-4  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    14.377788  173.153472    5.387456
373.074288   47.244106   4602.646
 0.25000    14.377788  182.917787    5.387456
389.906049   47.469910   4529.601
 0.50000    14.377788  193.534942    5.387456
408.840217   48.472824   4444.432
 0.75000    14.377788  204.799846    5.387456
429.294531   50.050531   4349.938
 1.00000    14.377788  216.502607    5.387456
450.611745   52.155474   4244.292

 COMB DL-G1-4  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -7.231634  -189.701680   -7.835987
-344.668895  -85.059021  -2147.663
 0.25000    -7.231634  -178.163751   -7.835987
-321.739025  -81.963785   -1174.888
 0.50000    -7.231634  -167.008619   -7.835987
-299.357025  -79.912996   -1102.297
 0.75000    -7.231634  -156.442237   -7.835987
-278.485544  -79.152324   -1029.544
 1.00000    -7.231634  -146.681022   -7.835987
-259.691865  -79.209616  -956.794169

 COMB DL-G2-1  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.823949   43.345605    2.740864
139.544808   2.200899   1458.114
 0.25000    4.823949   43.412829    2.740864
139.682337   2.711065   1424.727
 0.50000    4.823949   43.485951    2.740864
139.835468   3.298219   1393.338
 0.75000    4.823949   43.563646    2.740864
140.000280   4.071957   1362.143
 1.00000    4.823949   43.644512    2.740864
140.172479   5.072909   1331.805

 COMB DL-G2-1  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -2.432324  -30.704006   -2.430281
-63.240702  -29.500463  -427.896485
 0.25000    -2.432324  -30.624336   -2.430281
-63.057099  -29.426929  -402.926753
 0.50000    -2.432324  -30.547450   -2.430281
-62.889902  -29.918390  -377.969705
 0.75000    -2.432324  -30.474153   -2.430281
-62.716222  -31.453647  -353.009293
 1.00000    -2.432324  -30.407681   -2.430281
-62.566864  -33.243528  -328.137832

 COMB DL-G2-2  ------------------ MAX

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.764084   115.840503    3.156146
273.674030   19.264284   3302.357
 0.25000    8.764084   115.847227    3.156146
273.687803   19.795381   3223.960
 0.50000    8.764084   115.854542    3.156146
273.703138   20.706278   3154.629
 0.75000    8.764084   115.862313    3.156146
273.719643   22.119109   3098.961
 1.00000    8.764084   115.870402    3.156146
273.736888   23.824968   3053.174
 Program    SAP2000    Nonlinear    Version    7.42
            File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1824

 F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

 COMB DL-G2-2  ------------------ MIN

 REL DIST          P          V2          V3
      T          M2          M3
 0.00000    -3.704480  -93.297204   -3.155126
```

```
-190.908811  -25.148467 -847.909738
 0.25000     -3.704480  -93.289234     -3.155126
-190.890418  -24.794946 -798.305192
 0.50000     -3.704480  -93.281544     -3.155126
-190.872785  -25.246533 -748.822712
 0.75000     -3.704480  -93.274272     -3.155126
-190.856296  -26.870690 -699.165996
 1.00000     -3.704480  -93.267563     -3.155126
-190.841341  -28.940121 -649.530147

 COMB DL-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     12.668623  129.884035     4.779318
368.818308   19.559514   3918.937
 0.25000     12.668623  129.890086     4.779318
368.830704   20.216728   3821.464
 0.50000     12.668623  129.896669     4.779318
368.844506   21.445355   3732.148
 0.75000     12.668623  129.903664     4.779318
368.859360   23.252878   3655.499
 1.00000     12.668623  129.910944     4.779318
368.874880   25.494002   3587.740

 COMB DL-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -6.216925 -102.181763    -6.364606
-213.995152  -76.260449  -1125.020
 0.25000    -6.216925 -102.174591    -6.364606
-213.978598  -74.138981  -1079.508
 0.50000    -6.216925 -102.167669    -6.364606
-213.962729  -73.134816  -994.101866
 0.75000    -6.216925 -102.161124    -6.364606
-213.947889  -73.550489  -928.521429
 1.00000    -6.216925 -102.155086    -6.364606
-213.934429  -74.754903  -862.978018

 COMB DL-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     14.308025  201.535789     6.202548
337.421231   67.739006   5030.682
 0.25000     14.308025  216.271537     6.202548
340.465225   67.754535   4973.869
 0.50000     14.308025  232.272105     6.202548
361.323103   68.460111   4895.124
 0.75000     14.308025  249.211549     6.202548
384.053394   69.875167   4796.495
 1.00000     14.308025  266.764465     6.202548
407.612114   71.807302   4676.160

 COMB DL-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -7.126202 -241.013993    -7.339549
-369.675807  -66.082056  -1252.890
 0.25000    -7.126202 -223.701020    -7.339549
-342.641060  -64.125130  -1179.597
 0.50000    -7.126202 -206.903860    -7.339549
-316.353591  -63.177209  -1106.488
 0.75000    -7.126202 -190.983838    -7.339549
-291.937718  -63.453643  -1033.248
 1.00000    -7.126202 -176.190600    -7.339549
-285.618560  -64.431887  -960.045568

 COMB DL-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     6.004862  147.342764     4.001845
130.911629   88.762259   2798.403
 0.25000     6.004862  165.946702     4.001845
130.911629   87.115527   2821.622
 0.50000     6.004862  186.101207     4.001845
130.911629   86.159602   2809.917
 0.75000     6.004862  207.347450     4.001845
130.820181   85.863461   2762.567
 1.00000     6.004862  229.225716     4.001845
129.753822   86.099485   2680.323
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1825

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -3.322502 -226.155878    -3.433577
-285.377888  -84.095527  -484.372884
 0.25000    -3.322502 -204.534325    -3.433577
-289.728420   -3.802168  -455.724110
 0.50000    -3.322502 -183.414406    -3.433577
-294.119202   -3.660079  -427.130328
 0.75000    -3.322502 -163.255362    -3.433577
-298.417883   -3.576183  -398.542699
 1.00000    -3.322502 -144.539419    -3.433577
-301.742056   -3.516007  -370.051622

 COMB DL-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     9.698093  227.331640     5.085674
233.331922  121.282664   4544.692
 0.25000     9.698093  248.869326     5.085674
233.331922  119.855156   4533.905
 0.50000     9.698093  272.207393     5.085674
233.331922  119.133518   4490.706
 0.75000     9.698093  296.834875     5.085674
233.331922  119.206576   4422.293
 1.00000     9.698093  322.231083     5.085674
233.285600  119.829412   4323.466

 COMB DL-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -4.648766 -312.405487    -4.955765
-412.974080   -7.982188  -856.997988
 0.25000    -4.648766 -287.318252    -4.955765
-413.459818   -7.676748  -806.433552
 0.50000    -4.648766 -262.851756    -4.955765
-413.946011   -7.552483   -755.869256
 0.75000    -4.648766 -239.527079    -4.955765
-414.431294   -7.538647  -701.625714
 1.00000    -4.648766 -217.880560    -4.955765
-414.870734   -7.602353  -651.476727

 COMB DL-G3-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     12.598983  245.454639     5.969030
320.921695  105.859981   5462.298
 0.25000     12.598983  265.197154     5.969030
320.921695  104.760642   5425.576
 0.50000     12.598983  286.590597     5.969030
320.921695  104.705761   5360.159
 0.75000     12.598983  309.168924     5.969030
320.921695  105.505828   5269.778
 1.00000     12.598983  332.456172     5.969030
320.934078  106.964349   5150.861

 COMB DL-G3-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -5.877802 -312.264948    -5.504000
-431.888328  -15.465727   -1143.433
 0.25000    -5.877802 -289.262278    -5.504000
-431.803754  -14.881400   -1076.086
 0.50000    -5.877802 -266.833253    -5.504000
-431.719595  -15.194828   -1008.853
 0.75000    -5.877802 -245.454196    -5.504000
-431.634605  -16.247339  -941.755925
 1.00000    -5.877802 -225.614321    -5.504000
-431.562410  -17.567106  -874.625487

 COMB DL-G3-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     14.379845  227.813993     7.020734
369.807673   89.647405   5410.913
 0.25000     14.379845  244.272219     7.020734
369.807673   89.228613   5357.511
 0.50000     14.379845  262.106753     7.020734
369.807673   89.550207   5280.348
 0.75000     14.379845  280.929155     7.020734
369.807673   90.729526   5182.698
 1.00000     14.379845  300.342686     7.020734
369.820772   92.599359   5061.264
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1826

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -7.181716 -276.097200    -7.221710
-392.840406  -52.321405   -1280.954
 0.25000    -7.181716 -256.920954    -7.221710
-392.752285  -51.953842   -1205.883
 0.50000    -7.181716 -238.223071    -7.221710
-392.664510  -50.869012   -1130.996
 0.75000    -7.181716 -220.400601    -7.221710
-392.576042  -51.754909   -1056.005
 1.00000    -7.181716 -203.861291    -7.221710
-392.501015  -53.207174  -969.448806

 COMB DB ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     8.238935  274.773515     7.031110
355.966278  106.453078   5136.028
 0.25000     8.238935  299.545143     7.031110
359.774257  104.739516   5123.926
 0.50000     8.238935  326.368522     7.031110
381.478316  104.327212   5091.137
 0.75000     8.238935  354.725107     7.031110
408.744096  105.306514   5040.117
 1.00000     8.238935  384.128604     7.031110
439.930552  107.508086   4963.927

 COMB DB ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -4.082053 -369.280171    -7.782847
-455.609963  -96.449567  -962.277688
 0.25000    -4.082053 -336.979589    -7.782847
-455.609963  -92.413566  -905.884261
 0.50000    -4.082053 -305.398036    -7.782847
-455.609963  -89.705993  -849.490833
 0.75000    -4.082053 -275.113711    -7.782847
-455.609963  -88.482711  -793.097406
 1.00000    -4.082053 -246.691627    -7.782847
-455.609963  -88.749336  -736.703978

 COMB DL ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     14.379845  245.454639     7.020734
373.074288  121.282664   5462.298
 0.25000     14.379845  265.197154     7.020734
389.906049  119.855156   5425.576
 0.50000     14.379845  286.590597     7.020734
408.840217  119.133518   5360.159
 0.75000     14.379845  309.168924     7.020734
429.294531  119.206576   5269.778
 1.00000     14.379845  332.456172     7.020734
450.611745  119.829412   5150.861

 COMB DL ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -7.231634 -312.405487    -7.835987
-431.888328 -110.841115   -1280.954
 0.25000    -7.231634 -289.262278    -7.835987
-431.803754 -107.150480   -1205.883
 0.50000    -7.231634 -266.833253    -7.835987
-431.719595 -104.419155   -1130.996
 0.75000    -7.231634 -245.454196    -7.835987
-431.634605 -103.008972   -1056.005
 1.00000    -7.231634 -225.614321    -7.835987
-431.562410 -102.300978  -969.448806

 COMB CAR ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     14.379845  274.773515     7.031110
373.074288  121.282664   5462.298
 0.25000     14.379845  299.545143     7.031110
389.906049  119.855156   5425.576
 0.50000     14.379845  326.368522     7.031110
408.840217  119.133518   5360.159
 0.75000     14.379845  354.725107     7.031110
429.294531  119.206576   5269.778
 1.00000     14.379845  384.128604     7.031110
450.611745  119.829412   5150.861

 COMB CAR ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -7.231634 -369.280171    -7.835987
-455.609963 -110.841115   -1280.954
 0.25000    -7.231634 -336.979589    -7.835987
-455.609963 -107.150480   -1205.883
 0.50000    -7.231634 -305.398036    -7.835987
-455.609963 -104.419155   -1130.996
 0.75000    -7.231634 -275.113571    -7.835987
-455.609963 -103.008972   -1056.005
 1.00000    -7.231634 -246.691627    -7.835987
-455.609963 -102.300978  -969.448806

 COMB DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     14.379845  274.773515     7.031110
373.074288  121.282664   5462.298
 0.25000     14.379845  299.545143     7.031110
389.906049  119.855156   5425.576
 0.50000     14.379845  326.368522     7.031110
408.840217  119.133518   5360.159
 0.75000     14.379845  354.725107     7.031110
429.294531  119.206576   5269.778
 1.00000     14.379845  384.128604     7.031110
450.611745  119.829412   5150.861

 COMB DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -7.231634 -369.280171    -7.835987
-455.609963 -110.841115   -1280.954
 0.25000    -7.231634 -336.979589    -7.835987
-455.609963 -107.150480   -1205.883
 0.50000    -7.231634 -305.398036    -7.835987
-455.609963 -104.419155   -1130.996
 0.75000    -7.231634 -275.113571    -7.835987
-455.609963 -103.008972   -1056.005
 1.00000    -7.231634 -246.691627    -7.835987
-455.609963 -102.300978  -969.448806

ELEM      156 ================== LENGTH
=     4.927789

 COMB DB-G1-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     2.649046   40.224347     0.549171
229.224090   2.754351   756.241270
 0.25000     2.649046   40.236972     0.549171
229.244970   3.306401   708.640280
 0.50000     2.649046   40.250508     0.549171
229.274048   3.860363   661.198451
 0.75000     2.649046   40.264760     0.549171
229.306951   4.420523   614.073493
 1.00000     2.649046   40.280872     0.549171
229.345212   4.986939   567.031404

 COMB DB-G1-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -1.599712  -17.225031    -5.427579
-52.299978  -54.503553  -262.965858
 0.25000    -1.599712  -17.208759    -5.427579
-52.259583  -49.440532  -241.904837
 0.50000    -1.599712  -17.194129    -5.427579
-52.225012  -44.730497  -220.844677
 0.75000    -1.599712  -17.179964    -5.427579
-52.192056  -40.405138  -199.795861
 1.00000    -1.599712  -17.166461    -5.427579
-52.161298  -36.506640  -178.747044

 COMB DB-G1-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     4.840167   84.205713     2.733010
404.020447   5.342687   1597.634
 0.25000     4.840167   84.218334     2.733010
404.041294   6.045132   1502.600
 0.50000     4.840167   84.231866     2.733010
404.070162   6.811752   1409.866
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1828

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.75000     4.840167   84.246113     2.733010
404.103020   7.744879   1319.133
 1.00000     4.840167   84.262216     2.733010
404.141225   8.856568   1230.641

 COMB DB-G1-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -2.571473  -31.556493    -8.062227
-81.169028  -89.957993  -477.950099
 0.25000    -2.571473  -31.540229    -8.062227
-81.128692  -84.095494  -440.049861
 0.50000    -2.571473  -31.525604    -8.062227
-81.094167  -79.415772  -402.152944
 0.75000    -2.571473  -31.511443    -8.062227
-81.061258  -76.035422  -364.267374
 1.00000    -2.571473  -31.497944    -8.062227
-81.030547  -73.795226  -326.381804

 COMB DB-G1-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     6.582779  141.546844     3.096588
496.409870   8.535135   2699.829
 0.25000     6.582779  141.558204     3.096588
496.428640   9.484296   2549.565
 0.50000     6.582779  141.570384     3.096588
496.454668   10.532500  2406.094
 0.75000     6.582779  141.583207     3.096588
496.484251   11.731007  2270.306
 1.00000     6.582779  141.597702     3.096588
496.518648   13.129580  2146.165

 COMB DB-G1-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -3.023058  -41.641862    -7.726817
-134.761310  -79.763810  -654.496418
 0.25000    -3.023058  -41.627222    -7.726817
-134.724994  -74.730058  -603.339218
 0.50000    -3.023058  -41.614059    -7.726817
-134.693912  -71.167674  -552.185197
 0.75000    -3.023058  -41.601313    -7.726817
-134.664283  -68.910210  -501.041356
 1.00000    -3.023058  -41.589163    -7.726817
-134.636633  -67.659904  -449.897516

 COMB DB-G1-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     7.318710  228.338405     4.437159
460.086733   42.584002   3808.818
 0.25000     7.318710  240.153972     4.437159
463.923121   42.430138   3657.151
 0.50000     7.318710  252.855984     4.437159
481.802154   42.577941   3497.371
 0.75000     7.318710  266.249590     4.437159
499.739638   43.242076   3332.018
 1.00000     7.318710  281.098693     4.437159
530.238614   44.408662   3161.759

 COMB DB-G1-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -3.236220 -160.829680    -7.701993
-364.894737  -88.518948  -729.867013
 0.25000    -3.236220 -145.814229    -7.701993
-331.551729  -64.250757  -673.607302
 0.50000    -3.236220 -132.029980    -7.701993
-302.587486  -61.210685  -617.350924
 0.75000    -3.236220 -118.690123    -7.701993
-279.751243  -59.276755  -561.103438
 1.00000    -3.236220 -105.991329    -7.701993
-256.898969  -58.193672  -504.855951

 COMB DB-G2-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     2.569868   59.405314     2.830254
190.697662   2.827146   1134.525
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1829

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.25000     2.569868   59.544152     2.830254
190.927077   3.052258   1075.607
 0.50000     2.569868   59.693013     2.830254
191.245197   3.379992   1017.657
 0.75000     2.569868   59.849742     2.830254
191.606763   3.864976   962.816661
 1.00000     2.569868   60.026906     2.830254
192.027175   4.512855   910.097733

 COMB DB-G2-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.985308  -17.108124    -2.288910
-27.833493  -29.958332  -253.255811
 0.25000    -0.985308  -16.929197    -2.288910
-27.389632  -29.884102  -233.629574
 0.50000    -0.985308  -16.766307    -2.288910
-27.009736  -30.619404  -214.003343
 0.75000    -0.985308  -16.612526    -2.288910
-26.647608  -32.507556  -194.377113
 1.00000    -0.985308  -16.464024    -2.288910
-26.309661  -35.154978  -174.750883

 COMB DB-G2-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     4.970114  150.266157     3.437001
318.207571  18.205375   2722.037
 0.25000     4.970114  150.278779     3.437001
318.228427  18.394021   2573.552
 0.50000     4.970114  150.292312     3.437001
318.257347  18.777902   2441.609
 0.75000     4.970114  150.306560     3.437001
318.290217  19.416153   2332.821
 1.00000     4.970114  150.322665     3.437001
318.328436  20.403829   2248.206

 COMB DB-G2-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -1.705679  -48.683939    -2.987195
-164.206314  -25.196064  -496.205083
 0.25000    -1.705679  -48.667673    -2.987195
-164.165963  -25.227379  -458.203869
 0.50000    -1.705679  -48.653046    -2.987195
-164.131427  -26.355274  -420.415588
 0.75000    -1.705679  -48.638884    -2.987195
-164.098506  -28.453465  -382.521870
 1.00000    -1.705679  -48.625384    -2.987195
-164.067784  -31.160668  -344.628152

 COMB DB-G2-3 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     6.607995  169.202353     3.825214
467.202467  18.328708   3112.010
 0.25000     6.607995  169.213712     3.825214
467.221237  18.937698   2928.677
 0.50000     6.607995  169.225892     3.825214
467.247265  19.716353   2770.318
 0.75000     6.607995  169.238715     3.825214
467.276648  20.707638   2633.385
 1.00000     6.607995  169.252215     3.825214
467.311245  22.121172   2518.283

 COMB DB-G2-3 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -2.747552  -57.530190    -6.474165
-185.827330  -64.926316  -657.588279
 0.25000    -2.747552  -57.515550    -6.474165
-185.791014  -61.926703  -606.668504
 0.50000    -2.747552  -57.502386    -6.474165
-185.759931  -60.268052  -555.755534
 0.75000    -2.747552  -57.489641    -6.474165
-185.730303  -59.985253  -504.847241
 1.00000    -2.747552  -57.477490    -6.474165
-185.702653  -60.645130  -453.938948
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1830

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     7.361473  267.281943     5.854711
410.957898  61.280637   4299.834
 0.25000     7.361473  285.432867     5.854711
410.957898  60.114672   4162.279
 0.50000     7.361473  305.015635     5.854711
410.957898  59.463269   4004.659
 0.75000     7.361473  325.707133     5.854711
415.527226  59.512945   3828.307
 1.00000     7.361473  348.038853     5.854711
436.961858  60.412710   3632.781

 COMB DB-G2-4 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -3.249631  -221.515566    -6.529874
-399.585909  -55.198909  -733.492698
 0.25000    -3.249631  -198.894237    -6.529874
-378.157620  -52.675348  -677.452049
 0.50000    -3.249631  -177.525763    -6.529874
-354.092512  -51.283368  -621.416920
 0.75000    -3.249631  -156.860250    -6.529874
-328.926471  -51.033214  -565.385596
 1.00000    -3.249631  -137.224902    -6.529874
-328.926471  -51.565612  -509.354272

 COMB DB-G3-1 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     2.859658  197.149399     4.809604
 43.888199  78.793286   2721.489
 0.25000     2.859658  220.389002     4.809604
 43.888199  75.538347   2713.732
 0.50000     2.859658  245.653364     4.809604
 43.888199  73.106503   2668.414
 0.75000     2.859658  272.453273     4.809604
 43.888199  71.454290   2592.886
 1.00000     2.859658  299.850671     4.809604
 43.888199  70.568935   2449.532

 COMB DB-G3-1 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -1.698708  -250.686520    -1.819242
-404.119306  -1.883823  -283.932782
 0.25000    -1.698708  -222.831407    -1.819242
-404.119306  -1.842513  -263.167623
 0.50000    -1.698708  -194.969298    -1.819242
-404.119306  -1.805596  -242.402521
 0.75000    -1.698708  -168.056897    -1.819242
-404.119306  -1.768212  -221.637465
 1.00000    -1.698708  -142.593192    -1.819242
-404.119306  -1.787266  -200.872409

 COMB DB-G3-2 -------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000     5.009540  299.114726     6.081200
136.252309  106.579395   4322.044
 0.25000     5.009540  326.878102     6.081200
136.252309  102.915835   4245.262
 0.50000     5.009540  356.980662     6.081200
136.252309  100.470554   4138.012
 0.75000     5.009540  388.878406     6.081200
136.252309  99.106165   4001.333
 1.00000     5.009540  422.008719     6.081200
136.252309  98.733386   3830.133

 COMB DB-G3-2 -------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -2.384081  -324.409664    -3.217813
-548.377057  -4.825901  -501.304825
 0.25000    -2.384081  -290.763454    -3.217813
-548.377057  -4.677283  -464.320067
 0.50000    -2.384081  -257.665628    -3.217813
-548.377057  -4.558656  -427.336444
 0.75000    -2.384081  -225.686632    -3.217813
-548.377057  -4.473472  -390.353506
 1.00000    -2.384081  -195.379391    -3.217813
-548.377057  -4.439930  -353.370844
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.714462	324.059459	6.963955
271.580423	94.570757	4964.584	
0.25000	6.714462	349.524879	6.963955
271.580423	91.505645	4843.981	
0.50000	6.714462	377.128507	6.963955
271.580423	89.362776	4695.032	
0.75000	6.714462	406.375105	6.963955
271.580423	88.248340	4518.196	
1.00000	6.714462	436.800176	6.963955
271.580423	88.113139	4312.746	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.912405	-303.785013	-3.703670
-513.111962	-12.987250	-670.591062	
0.25000	-2.912405	-272.889601	-3.703670
-513.111962	-13.166424	-620.442759	
0.50000	-2.912405	-242.548615	-3.703670
-513.111962	-14.012599	-570.295235	
0.75000	-2.912405	-213.232399	-3.703670
-513.111962	-15.452385	-520.148183	
1.00000	-2.912405	-185.444123	-3.703670
-513.111962	-17.193012	-470.001130	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.405334	301.433969	7.407195
376.408135	80.487202	4743.867	
0.25000	7.405334	322.665607	7.407195
376.408135	78.191853	4607.928	
0.50000	7.405334	345.679719	7.407195
376.408135	76.684646	4448.922	
0.75000	7.405334	370.063526	7.407195
376.408135	76.085831	4267.309	
1.00000	7.405334	395.431472	7.407195
376.408135	76.532111	4062.433	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.359980	-264.569827	-5.774405
-455.678658	-44.510980	-736.798261	
0.25000	-3.359980	-238.809833	-5.774405
-455.678658	-43.134913	-680.927362	
0.50000	-3.359980	-213.513797	-5.774405
-455.678658	-42.844417	-625.061685	
0.75000	-3.359980	-189.677210	-5.774405
-455.678658	-43.642920	-569.197409	
1.00000	-3.359980	-165.904152	-5.774405
-455.678658	-45.168581	-513.333133	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.219311	58.180699	1.086987
301.598564	4.797391	978.754353	
0.25000	5.219311	58.187738	1.086987
301.611727	5.919760	913.351310	
0.50000	5.219311	58.195387	1.086987
301.626491	7.208116	847.942865	
0.75000	5.219311	58.203524	1.086987
301.642457	8.862896	782.564433	
1.00000	5.219311	58.212008	1.086987
301.659220	10.894645	717.467092	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.068299	-24.164033	-6.577063
-67.402203	-62.486255	-348.156622	
0.25000	-3.068299	-24.156231	-6.577063
-67.383029	-56.822264	-320.346272	
0.50000	-3.068299	-24.148697	-6.577063
-67.364587	-51.539065	-292.536460	
0.75000	-3.068299	-24.141575	-6.577063
-67.347257	-46.698131	-264.711838	
1.00000	-3.068299	-24.135008	-6.577063
-67.331510	-42.445096	-236.904720	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.090908	114.397152	3.175686
512.825678	7.730599	2009.194	
0.25000	9.090908	114.404188	3.175686
512.838812	9.149232	1882.746	
0.50000	9.090908	114.411835	3.175686
512.853548	10.862174	1756.577	
0.75000	9.090908	114.419968	3.175686
512.869479	13.359544	1631.688	
1.00000	9.090908	114.428449	3.175686
512.886207	15.896814	1507.939	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.101773	-43.710946	-9.204768
-102.625209	-101.971117	-629.263615	
0.25000	-5.101773	-43.703148	-9.204768
-102.606065	-95.691033	-579.419089	
0.50000	-5.101773	-43.695616	-9.204768
-102.587652	-90.465682	-529.607608	
0.75000	-5.101773	-43.688497	-9.204768
-102.570349	-86.253604	-479.815569	
1.00000	-5.101773	-43.681932	-9.204768
-102.554627	-82.931640	-430.003338	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.525575	177.635442	3.545009
594.790500	12.285962	3282.786	
0.25000	11.525575	177.838069	3.545009
595.168548	13.999370	3095.589	
0.50000	11.525575	178.058270	3.545009
595.592717	16.033693	2910.414	
0.75000	11.525575	178.292487	3.545009
596.051296	18.519526	2727.134	
1.00000	11.525575	178.536708	3.545009
596.532839	21.645341	2547.600	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.730140	-63.410249	-8.713097
-148.594701	-91.139373	-869.108120	
0.25000	-5.730140	-63.185682	-8.713097
-148.043575	-86.126590	-801.239970	
0.50000	-5.730140	-62.968794	-8.713097
-147.513477	-82.182259	-733.393262	
0.75000	-5.730140	-62.763773	-8.713097
-147.015351	-79.285335	-665.559648	
1.00000	-5.730140	-62.574729	-8.713097
-146.562742	-77.283868	-597.717463	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.543333	244.324802	4.756875
543.048308	49.302603	4243.389	
0.25000	12.543333	254.567658	4.756875
556.743540	49.702438	4056.434	
0.50000	12.543333	265.689059	4.756875
574.620146	50.470581	3854.298	
0.75000	12.543333	277.502932	4.756875
594.092881	51.663014	3640.670	
1.00000	12.543333	289.800667	4.756875
614.505471	53.460029	3415.815	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.990790	-157.170174	-8.271137
-365.469935	-78.617347	-956.736908	
0.25000	-5.990790	-145.872671	-8.271137
-340.900210	-74.405681	-883.912351	
0.50000	-5.990790	-134.943913	-8.271137
-317.150882	-71.112351	-811.378301	
0.75000	-5.990790	-124.601156	-8.271137
-294.893492	-68.704466	-738.853544	
1.00000	-5.990790	-115.042043	-8.271137
-274.719847	-67.057922	-666.372713	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.540859	271.593851	5.959063
478.016086	68.885080	4675.794	
0.25000	12.540859	287.091398	5.959063
478.016344	68.204290	4499.750	
0.50000	12.540859	303.896657	5.959063
478.279986	67.828189	4298.290	
0.75000	12.540859	321.711045	5.959063
498.744338	67.923255	4074.861	
1.00000	12.540859	340.206449	5.959063
520.484820	68.672160	3829.165	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.906497	-201.860459	-6.682828
-432.379434	-63.625498	-960.061801	
0.25000	-5.906497	-184.909915	-6.682828
-404.602099	-61.482983	-886.624699	
0.50000	-5.906497	-168.455244	-6.682828
-376.065671	-60.171266	-813.538375	
0.75000	-5.906497	-152.842579	-6.682828
-349.158440	-59.610391	-741.314225	
1.00000	-5.906497	-138.397359	-6.682828
-341.465540	-59.664508	-669.188303	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.291577	168.648883	4.734099
59.705665	84.712193	2681.505	
0.25000	5.291577	188.313808	4.734099
59.705665	80.876249	2652.515	
0.50000	5.291577	209.583495	4.734099
59.705665	77.540654	2587.932	
0.75000	5.291577	232.058964	4.734099
59.705665	74.674752	2486.328	
1.00000	5.291577	255.260655	4.734099
59.705665	72.309043	2348.624	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.733666	-199.574849	-1.678554
-433.424170	-2.625805	-370.213640	
0.25000	-2.733666	-178.410429	-1.678554
-437.814379	-2.726046	-342.563249	
0.50000	-2.733666	-157.723733	-1.678554
-442.204588	-2.873343	-315.364506	
0.75000	-2.733666	-137.994426	-1.678554
-446.594796	-3.138402	-288.273825	
1.00000	-2.733666	-119.700336	-1.678554
-450.985005	-3.425771	-261.054088	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.543761	267.920305	6.010689
154.184518	117.799158	4324.865	
0.25000	8.543761	290.659288	6.010689
154.184518	113.629710	4225.578	
0.50000	8.543761	315.259132	6.010689
154.184518	109.970487	4088.557	
0.75000	8.543761	341.277006	6.010689
154.184518	106.854961	3922.122	
1.00000	8.543761	368.169679	6.010689
154.184518	104.265477	3725.281	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.849655	-266.788350	-2.804258
-571.545601	-6.585309	-651.733698	
0.25000	-3.849655	-242.229994	-2.804258
-572.031303	-6.635070	-603.474298	
0.50000	-3.849655	-218.264986	-2.804258
-572.517005	-6.743264	-555.930851	
0.75000	-3.849655	-195.434877	-2.804258
-573.002707	-6.895015	-508.450184	
1.00000	-3.849655	-174.275547	-2.804258
-573.488409	-7.092091	-460.870026	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.129900	303.877774	6.823476
292.987054	104.313201	5151.741	
0.25000	11.129900	324.718346	6.823476
292.987054	101.033948	4997.724	
0.50000	11.129900	347.265025	6.823476
292.987054	98.243012	4809.714	
0.75000	11.129900	371.114088	6.823476
292.987054	96.023013	4594.015	
1.00000	11.129900	395.768961	6.823476
292.987054	94.373469	4349.424	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.888525	-258.416182	-3.440533
-537.319753	-16.578346	-874.846400	
0.25000	-4.888525	-235.898270	-3.440533
-537.235185	-17.006002	-809.693353	
0.50000	-4.888525	-213.926893	-3.440533
-537.150617	-18.443815	-744.134348	
0.75000	-4.888525	-193.003071	-3.440533
-537.066049	-20.018965	-679.099720	
1.00000	-4.888525	-173.610353	-3.440533
-536.981481	-21.817234	-613.985931	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.636444	296.474149	7.274886
435.263554	89.680180	5061.434	
0.25000	12.636444	313.847660	7.274886
435.263554	87.484020	4885.035	
0.50000	12.636444	332.643469	7.274886
435.263554	85.791821	4680.431	
0.75000	12.636444	352.525086	7.274886
435.263554	84.719591	4453.147	
1.00000	12.636444	373.078594	7.274886
435.263554	84.409994	4201.895	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.953359	-231.353637	-5.811812
-483.607984	-52.240069	-969.527381	
0.25000	-5.953359	-212.581502	-5.811812
-483.519870	-51.334846	-895.809302	
0.50000	-5.953359	-194.266803	-5.811812
-483.431755	-51.262855	-822.521835	
0.75000	-5.953359	-176.822167	-5.811812
-483.343640	-51.852289	-749.286541	
1.00000	-5.953359	-160.654943	-5.811812
-483.255525	-52.962030	-675.981482	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.405334	324.059459	7.407195
496.409870	106.579395	4964.584	
0.25000	7.405334	349.524879	7.407195
496.428640	102.915835	4843.981	
0.50000	7.405334	377.128507	7.407195
496.454668	100.470554	4695.032	
0.75000	7.405334	406.375105	7.407195
499.739638	99.106165	4518.196	
1.00000	7.405334	436.800176	7.407195
530.238614	98.733386	4312.746	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.359980	-324.409664	-8.062227
-548.377057	-89.957993	-736.798261	
0.25000	-3.359980	-290.763454	-8.062227
-548.377057	-84.095494	-680.927362	
0.50000	-3.359980	-257.665629	-8.062227
-548.377057	-79.415772	-625.061685	
0.75000	-3.359980	-225.686632	-8.062227
-548.377057	-76.035422	-569.197409	
1.00000	-3.359980	-195.379391	-8.062227
-548.377057	-73.795226	-513.333133	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.636444	303.877774	7.274886
594.790500	117.799158	5151.741	
0.25000	12.636444	324.718346	7.274886
595.168548	113.629710	4997.724	
0.50000	12.636444	347.265025	7.274886
595.592717	109.970487	4809.714	
0.75000	12.636444	371.114088	7.274886
596.051296	106.854961	4594.015	
1.00000	12.636444	395.768961	7.274886
614.505471	104.265477	4349.424	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.990790	-266.788350	-9.204768
-571.545601	-101.971117	-969.527381	
0.25000	-5.990790	-242.229994	-9.204768
-572.031303	-95.691033	-895.809302	
0.50000	-5.990790	-218.264986	-9.204768
-572.517005	-90.465682	-822.521835	
0.75000	-5.990790	-195.434877	-9.204768
-573.002707	-86.253604	-749.286541	
1.00000	-5.990790	-174.275547	-9.204768
-573.488409	-82.931640	-675.981482	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.636444	324.059459	7.407195
594.790500	117.799158	5151.741	
0.25000	12.636444	349.524879	7.407195
595.168548	113.629710	4997.724	
0.50000	12.636444	377.128507	7.407195
595.592717	109.970487	4809.714	
0.75000	12.636444	406.375105	7.407195
596.051296	106.854961	4594.015	
1.00000	12.636444	436.800176	7.407195
614.505471	104.265477	4349.424	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.990790	-324.409664	-9.204768
-571.545601	-101.971117	-969.527381	
0.25000	-5.990790	-290.763454	-9.204768
-572.031303	-95.691033	-895.809302	
0.50000	-5.990790	-257.665628	-9.204768
-572.517005	-90.465682	-822.521835	
0.75000	-5.990790	-225.686632	-9.204768
-573.002707	-86.253604	-749.286541	
1.00000	-5.990790	-195.379391	-9.204768
-573.488409	-82.931640	-675.981482	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.636444	324.059459	7.407195
594.790500	117.799158	5151.741	
0.25000	12.636444	349.524879	7.407195
595.168548	113.629710	4997.724	
0.50000	12.636444	377.128507	7.407195
595.592717	109.970487	4809.714	
0.75000	12.636444	406.375105	7.407195
596.051296	106.854961	4594.015	
1.00000	12.636444	436.800176	7.407195
614.505471	104.265477	4349.424	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.990790	-324.409664	-9.204768
-571.545601	-101.971117	-969.527381	
0.25000	-5.990790	-290.763454	-9.204768
-572.031303	-95.691033	-895.809302	
0.50000	-5.990790	-257.665628	-9.204768
-572.517005	-90.465682	-822.521835	
0.75000	-5.990790	-225.686632	-9.204768
-573.002707	-86.253604	-749.286541	
1.00000	-5.990790	-195.379391	-9.204768
-573.488409	-82.931640	-675.981482	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 157 ========== LENGTH = 4.928656

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.126514	54.328673	0.213844
306.712754	4.338379	565.798354	
0.25000	2.126514	54.341717	0.213844
306.732523	5.017655	499.329535	
0.50000	2.126514	54.355851	0.213844
306.755042	6.234670	432.887925	
0.75000	2.126514	54.370910	0.213844
306.787964	7.765778	366.486771	
1.00000	2.126514	54.388008	0.213844
306.828541	9.705515	300.231870	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.231688	-17.305963	-5.246667
-54.331685	-37.503612	-178.528038	
0.25000	-1.231688	-17.288560	-5.246667
-54.288845	-31.485198	-157.337636	
0.50000	-1.231688	-17.272593	-5.246667
-54.251770	-25.636863	-136.147240	
0.75000	-1.231688	-17.257985	-5.246667
-54.211673	-19.966972	-114.956844	
1.00000	-1.231688	-17.243640	-5.246667
-54.177826	-14.571124	-93.766448	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.919335	113.645594	0.443779
531.746365	7.496599	1228.577	
0.25000	3.919335	113.659634	0.443779
531.765885	8.691519	1090.685	
0.50000	3.919335	113.672764	0.443779
531.788370	10.180364	953.329853	
0.75000	3.919335	113.687818	0.443779
531.821050	12.087583	817.649603	
1.00000	3.919335	113.704908	0.443779
531.861568	14.551763	683.795602	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.984701	-31.238393	-8.391279
-83.458081	-75.352751	-326.068570	
0.25000	-1.984701	-31.220098	-8.391279
-83.415303	-67.053081	-287.981135	
0.50000	-1.984701	-31.205035	-8.391279
-83.378274	-59.207868	-249.898949	
0.75000	-1.984701	-31.190430	-8.391279
-83.338235	-52.036077	-211.816962	
1.00000	-1.984701	-31.176089	-8.391279
-83.304436	-45.456794	-173.734976	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.365626	187.775797	0.680759

```
626.642418    10.931857    2143.944
 0.25000     5.365626   187.787534     0.680759
626.660042    12.099627    1919.569
 0.50000     5.365626   187.800252     0.680759
626.680286    11.581177    1697.584
 0.75000     5.365626   187.813802     0.680759
626.709752    15.371245    1479.614
 1.00000     5.365626   187.829184     0.680759
626.746232    17.738079    1267.888

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.352821  -41.746349    -7.926748
-72.721585  -69.645564 -449.638730
 0.25000   -2.352821  -41.730692    -7.926748
-72.683071  -62.160823 -398.323068
 0.50000   -2.352821  -41.716324    -7.926748
-72.649735  -55.157004 -347.010979
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1838

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000   -2.352821  -41.703179    -7.926748
-72.613687  -48.836301 -295.699026
 1.00000   -2.352821  -41.690271    -7.926748
-72.583257  -43.005077 -244.387073

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.984237   285.254032    2.889168
565.137004   42.084998    3160.148
 0.25000    5.984237   297.527106    2.889168
565.137004   40.670847    2904.431
 0.50000    5.984237   310.848667    2.889168
578.024296   39.542256    2636.076
 0.75000    5.984237   325.047167    2.889168
597.182682   38.920654    2354.131
 1.00000    5.984237   340.872850    2.889168
619.326687   38.965254    2060.984

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.517830  -136.717861    -6.776094
-323.904009  -59.667822 -504.747605
 0.25000   -2.517830  -120.542579    -6.776094
-288.778472  -53.344882  -448.416921
 0.50000   -2.517830  -105.385354    -6.776094
-264.328626  -47.454669  -392.089201
 0.75000   -2.517830   -91.454836    -6.776094
-241.481434  -42.164009  -335.761595
 1.00000   -2.517830   -77.926742    -6.776094
-216.704317  -37.286462  -279.433988

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.111987   78.946041    0.321112
236.367219   9.097387   909.274603
 0.25000    2.111987   79.089490    0.321112
236.582623   3.970347   816.340250
 0.50000    2.111987   79.244932    0.321112
236.830058   4.187802   723.735946
 0.75000    2.111987   79.410539    0.321112
237.190196   4.482049   632.806352
 1.00000    2.111987   79.598551    0.321112
237.636062   4.928603   545.076767

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.772181   -16.951532    -2.810405
-23.400043  -35.766498 -174.688005
 0.25000   -0.772181   -16.760163    -2.810405
-22.929309  -34.164608 -155.020181
 0.50000   -0.772181   -16.584563    -2.810405
-22.521867  -32.896752 -135.356749
 0.75000   -0.772181   -16.423895    -2.810405
-22.081281  -31.639556 -115.693485
 1.00000   -0.772181   -16.266132    -2.810405
-21.709361  -31.436753  -96.030221

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.087239   192.799389    1.209549
365.704625   18.711580    2247.270
 0.25000    4.087239   192.812429    1.209549
365.724208   18.221636    2021.869
 0.50000    4.087239   192.826560    1.209549
365.746702   17.831331    1806.011
 0.75000    4.087239   192.841616    1.209549
365.779441   17.627147    1605.040
 1.00000    4.087239   192.858708    1.209549
365.819975   17.708011    1425.261

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.348969   -36.680454    -2.758972
-81.419884  -32.173576 -344.634993
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1839

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   -1.348969   -36.663057    -2.758972
-81.377090  -30.687835 -306.736778
 0.50000   -1.348969   -36.647093    -2.758972
-81.340050  -29.136847 -268.842652
 0.75000   -1.348969   -36.632487    -2.758972
-81.299997  -29.055553 -230.948682
 1.00000   -1.348969   -36.618145    -2.758972
-81.266186  -28.676191 -193.054711

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.402731   219.923320    1.247126
571.040993   20.119108    2516.481
 0.25000    5.402731   219.935057    1.247126
571.058617   20.248110    2256.600
 0.50000    5.402731   219.947775    1.247126
571.078862   20.605812    2005.517
 0.75000    5.402731   219.961325    1.247126
571.108327   21.360083    1768.050
 1.00000    5.402731   219.976708    1.247126
571.144807   22.634870    1549.796

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.147994   -46.762543    -6.364956
-113.209713  -62.306792 -453.788727
 0.25000   -2.147994   -46.746886    -6.364956
-113.171199  -56.767109 -402.775900
 0.50000   -2.147994   -46.732518    -6.364956
-113.137863  -51.746434 -351.765967
 0.75000   -2.147994   -46.719373    -6.364956
-113.101815  -47.460144 -300.756144
 1.00000   -2.147994   -46.706465    -6.364956
-113.071385  -43.686631 -249.746321

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.047265   328.058417    4.262950
498.031419   58.209110    3631.856
 0.25000    6.047265   347.048820    4.262950
498.031419   54.897104    3375.603
 0.50000    6.047265   367.701901    4.262950
498.031419   51.929462    3097.344
 0.75000    6.047265   389.740107    4.262950
498.031419   49.367656    2790.995
 1.00000    6.047265   413.684127    4.262950
509.569006   47.475465    2457.279

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.527125  -188.917000    -5.449553
-388.689700  -52.712934 -509.357911
 0.25000   -2.527125  -164.301766    -5.449553
-366.504037  -48.120146 -453.311743
 0.50000   -2.527125  -140.569751    -5.449553
-340.994241  -43.952632 -397.268000
 0.75000   -2.527125  -118.629676    -5.449553
-320.893471  -40.390447 -341.224350
 1.00000   -2.527125   -97.631236    -5.449553
-320.893471  -37.391729 -285.180699

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.391447   226.074083    5.703507
44.223669   69.745624    2450.890
 0.25000    2.391447   250.734622    5.703507
44.223669   63.547621    2367.655
 0.50000    2.391447   277.677903    5.703507
44.223669   57.717606    2253.560
 0.75000    2.391447   306.475379    5.703507
44.223669   52.170146    2091.733
 1.00000    2.391447   336.223079    5.703507
44.223669   47.169737    1878.410
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1840

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.307439  -213.140632    -0.291479
-493.084961  -1.405505 -201.082440
 0.25000   -1.307439  -182.198798    -0.291479
-493.084961  -1.404736 -180.435291
 0.50000   -1.307439  -150.659090    -0.291479
-493.084961  -1.526554 -159.788148
 0.75000   -1.307439  -121.345515    -0.291479
-493.084961  -1.863067 -139.141020
 1.00000   -1.307439   -93.758574    -0.291479
-493.084961  -2.201957 -118.494001

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.158916   349.414338    7.365063
133.534419   97.454721    3831.638
 0.25000    4.158916   378.754464    7.365063
133.534419   89.650071    3635.589
 0.50000    4.158916   410.753927    7.365063
133.534419   82.282182    3439.302
 0.75000    4.158916   444.941670    7.365063
133.534419   75.349772    3141.409
 1.00000    4.158916   480.778039    7.365063
133.534419   69.178733    2831.979

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.850057  -265.473446    -0.536134
-613.535726  -3.965392 -353.672236
 0.25000   -1.850057  -228.323192    -0.536134
-613.535726  -3.801336 -316.859618
 0.50000   -1.850057  -191.064826    -0.536134
-613.535726  -3.719374 -280.045169
 0.75000   -1.850057  -156.350647    -0.536134
-613.535726  -4.043282 -243.231727
 1.00000   -1.850057  -123.777214    -0.536134
-613.535726  -4.394815 -206.418539

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.562061   387.047553    6.698585
298.544079   85.883927    4313.536
 0.25000    5.562061   413.948059    6.698585
298.544079   79.255759    4054.484
 0.50000    5.562061   443.281532    6.698585
298.544079   73.036556    3768.138
 0.75000    5.562061   474.619680    6.698585
298.544079   67.214582    3441.284
 1.00000    5.562061   507.517429    6.698585
298.544079   62.096301    3074.974

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.273199  -254.478239    -1.754595
-530.044732  -17.571191 -470.250640
 0.25000   -2.273199  -220.386531    -1.754595
-530.044732  -16.923819 -420.238370
 0.50000   -2.273199  -186.250494    -1.754595
-530.044732  -16.502190 -370.226368
 0.75000   -2.273199  -154.455626    -1.754595
-530.044732  -16.645575 -320.214377
 1.00000   -2.273199  -124.595825    -1.754595
-530.044732  -16.907576 -270.202385

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.106606   365.462782    5.716718
447.367471   74.277137    4062.314
 0.25000    6.106606   387.890544    5.716718
447.367471   69.072339    3794.288
 0.50000    6.106606   412.346569    5.716718
447.367471   64.298154    3503.493
 0.75000    6.106606   438.473898    5.716718
447.367471   59.972837    3179.303
 1.00000    6.106606   465.903111    5.716718
447.367471   56.421443    2822.424
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1841

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.612605  -223.586924    -4.455945
-470.232524  -46.027337 -513.431570
 0.25000   -2.612605  -195.162826    -4.455945
-470.232524  -42.751481 -457.609707
 0.50000   -2.612605  -166.703190    -4.455945
-470.232524  -39.943718 -401.790706
 0.75000   -2.612605  -140.195946    -4.455945
-470.232524  -37.887534 -345.971815
 1.00000   -2.612605  -115.301103    -4.455945
-470.232524  -36.379040 -290.152924

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.129265   75.779321    0.383920
404.495724   9.601967  716.008833
 0.25000    4.129265   75.786808    0.383920
404.508584  10.454774  630.387994
 0.50000    4.129265   75.795002    0.383920
404.523369  11.513555  544.756251
 0.75000    4.129265   75.803798    0.383920
404.539738  12.872239  459.133607
 1.00000    4.129265   75.813073    0.383920
404.557298  14.920106  373.509830

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.378916  -24.373880    -5.976840
-71.029036  -42.326184 -236.688159
 0.25000   -2.378916  -24.366270    -5.976840
-71.009241  -36.396856 -208.591733
 0.50000   -2.378916  -24.358867    -5.976840
-70.989917  -30.724519 -180.514779
 0.75000   -2.378916  -24.351819    -5.976840
-70.971475  -25.462779 -152.437974
 1.00000   -2.378916  -24.345269    -5.976840
-70.954352  -20.691655 -124.365106

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.258092   153.674404    0.779175
693.626773   13.387178    1505.485
 0.25000    7.258092   153.681889    0.779175
693.639603   14.892221    1332.715
 0.50000    7.258092   153.690080    0.779175
693.654356   16.774471    1160.051
 0.75000    7.258092   153.698873    0.779175
693.670691   19.181944   987.783067
 1.00000    7.258092   153.708145    0.779175
693.688214   22.315656   816.360366

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.962860  -43.780560    -9.075131
-107.634857  -82.766252 -429.696219
 0.25000   -3.962860  -43.772952    -9.075131
-107.615091  -74.063628 -379.470307
 0.50000   -3.962860  -43.765552    -9.075131
-107.595795  -66.004946 -329.339580
 0.75000   -3.962860  -43.758507    -9.075131
-107.577380  -58.709507 -279.289362
 1.00000   -3.962860  -43.751959    -9.075131
-107.560282  -52.163321 -229.245397

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    9.278928   242.752053    1.027202
780.801162   18.161900    2544.992
 0.25000    9.278928   242.967603    1.027202
781.170475   19.651075    2276.017
 0.50000    9.278928   243.203482    1.027202
781.595135   21.511924    2006.673
 0.75000    9.278928   243.456710    1.027202
782.065324   23.859461    1738.896
 1.00000    9.278928   243.723716    1.027202
782.569713   26.903783    1472.399
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1842

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.470426  -60.417885    -8.431822
-106.139591  -77.138015 -597.470168
 0.25000   -4.470426  -60.198810    -8.431822
-105.570543  -69.576967 -537.202960
 0.50000   -4.470426  -59.985706    -8.431822
-105.015010  -62.573921 -460.969858
 0.75000   -4.470426  -59.782828    -8.431822
-104.484852  -56.288193 -392.737520
 1.00000   -4.470426  -59.594272    -8.431822
-103.992622  -50.727970 -324.517934

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.147224   318.780706    3.283014
694.789985   49.562842    3414.203
 0.25000   10.147224   329.731475    3.283014
699.646064   48.145024    3119.868
 0.50000   10.147224   341.696225    3.283014
717.372464   47.201795    2806.022
 0.75000   10.147224   354.517813    3.283014
737.174926   46.697296    2478.009
 1.00000   10.147224   368.007667    3.283014
758.433590   46.880143    2136.920

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.676233  -136.642394    -7.254903
-361.132557  -66.588968  -666.217830
 0.25000   -4.676233  -125.621693    -7.254903
-335.527747  -60.214326  -593.863221
 0.50000   -4.676233  -114.886525    -7.254903
-310.400353  -54.337404  -521.625764
 0.75000   -4.676233  -104.657406    -7.254903
-286.389436  -49.060870  -449.388768
 1.00000   -4.676233   -95.157305    -7.254903
-264.212451  -44.471589  -377.058847

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    3.455817   98.484799    0.487007
291.029044   6.040595   1039.704
 0.25000    3.455817   98.559649    0.487007
291.157352   6.334938   930.534929
 0.50000    3.455817   98.641558    0.487007
291.304884   6.705537   821.237173
 0.75000    3.455817   98.729491    0.487007
291.468230   7.160984   712.600399
 1.00000    3.455817   98.822210    0.487007
291.643456   7.717647   604.543656

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.583957  -22.590178    -2.604879
-29.444793  -37.262207 -226.300104
 0.25000   -1.583957  -22.514102    -2.604879
-29.247133  -35.144840 -200.757535
 0.50000   -1.583957  -22.440101    -2.604879
-29.054170  -33.561320 -175.220832
 0.75000   -1.583957  -22.369650    -2.604879
-28.870020  -32.415288 -149.810991
 1.00000   -1.583957  -22.304173    -2.604879
-28.699043  -31.437359 -124.818660

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.336147   224.851319    1.413562
418.023484  23.216330    2455.514
 0.25000    6.336147   224.858806    1.413562
418.036337  22.745006    2214.283
 0.50000    6.336147   224.866998    1.413562
418.051114  22.373865    1973.018
 0.75000    6.336147   224.875794    1.413562
418.067474  22.118909    1740.671
 1.00000    6.336147   224.885068    1.413562
418.085024  22.143531    1519.191
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1843

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.446604  -51.662879    -2.526553
-81.406036  -34.717236 -452.463663
 0.25000   -2.446604  -51.655269    -2.526553
-81.386248  -33.085622 -403.444881
 0.50000   -2.446604  -51.647867    -2.526553
-81.366930  -31.847232 -354.389771
 0.75000   -2.446604  -51.640820    -2.526553
-81.348495  -30.964863 -305.368846
 1.00000   -2.446604  -51.634270    -2.526553
-81.331379  -30.351595 -256.342905

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    8.970648   266.930874    1.590461
695.096827   26.871735    2830.246
 0.25000    8.970648   266.937612    1.590461
695.108394   27.199047    2540.216
 0.50000    8.970648   266.944986    1.590461
695.121693   27.775445    2250.162
 0.75000    8.970648   266.952902    1.590461
695.136418   28.713432    1968.282
 1.00000    8.970648   266.961249    1.590461
695.152213   30.240471    1696.206

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.040403  -65.880136    -6.608676
-124.671377  -69.135850 -596.836126
 0.25000   -4.040403  -65.873287    -6.608676
-124.653567  -63.414948 -530.372166
 0.50000   -4.040403  -65.866625    -6.608676
-124.636182  -58.221930 -463.883459
 0.75000   -4.040403  -65.860283    -6.608676
-124.619590  -53.608345 -397.424939
 1.00000   -4.040403  -65.854388    -6.608676
-124.604185  -49.659169 -330.965200

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   10.194130   350.115588    4.650123
606.763940   64.666229    3828.435
 0.25000   10.194130   366.809809    4.650123
606.762251   61.301558    3531.919
 0.50000   10.194130   385.010026    4.650123
606.767936   58.331862    3205.471
 0.75000   10.194130   404.460044    4.650123
612.223392   55.814841    2853.616
 1.00000   10.194130   424.852032    4.650123
634.504073   53.777072    2477.148

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -4.612928  -173.739653    -5.714288
-466.683110  -58.962570 -669.149543
 0.25000   -4.612928  -157.190506    -5.714288
-438.487637  -54.313753 -597.178007
 0.50000   -4.612928  -141.033585    -5.714288
-408.815749  -50.117135 -525.353943
 0.75000   -4.612928  -125.618223    -5.714288
-382.609088  -46.411459 -453.427646
 1.00000   -4.612928  -111.283554    -5.714288
-375.109567  -43.316938 -381.543652

 COMB DL-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.353521   200.585738    5.819268
53.921817   70.322102    2350.334
 0.25000    4.353521   222.080036    5.819268
53.921817   64.050213    2250.871
 0.50000    4.353521   245.432197    5.819268
53.921817   57.921063    2113.323
 0.75000    4.353521   270.246294    5.819268
53.921817   51.905692    1936.508
 1.00000    4.353521   296.094536    5.819268
53.921817   46.164803    1720.568
 Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1844

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.126629  -167.416530    -0.368180
-578.364014  -2.502715 -261.239668
 0.25000   -2.126629  -146.719165    -0.368180
-582.754995  -2.721564 -234.402060
 0.50000   -2.126629  -126.421761    -0.368180
-587.145976  -2.958697 -207.410210
 0.75000   -2.126629  -107.005432    -0.368180
-591.536957  -3.222388 -180.387825
 1.00000   -2.126629   -88.950932    -0.368180
-595.927937  -3.500093 -153.377101

 COMB DL-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.028408   325.995153    7.657728
147.734107  101.275993    3727.536
 0.25000    7.028408   350.764153    7.657728
147.734107   93.007227    3515.712
 0.50000    7.028408   377.691117    7.657728
147.734107   84.965982    3259.866
 0.75000    7.028408   406.339598    7.657728
147.734107   77.113969    2969.244
 1.00000    7.028408   436.227549    7.657728
147.734107   69.706527    2646.363

 COMB DL-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.008047  -217.410223    -0.644204
-708.400012  -5.830834 -461.103142
 0.25000   -3.008047  -193.404751    -0.644204
-708.885799  -5.833486 -414.277031
 0.50000   -3.008047  -169.885729    -0.644204
-709.371587  -5.933597 -367.295234
 0.75000   -3.008047  -147.402157    -0.644204
-709.857375  -6.227656 -320.274543
 1.00000   -3.008047  -126.487263    -0.644204
-710.343162  -6.556208 -273.243836

 COMB DL-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    9.137600   383.432487    6.992943
336.773496  90.509400    4350.746
 0.25000    9.137600   406.123749    6.992943
336.773496  83.667836    4061.208
```

```
 0.50000     9.137600   430.793929     6.992943
336.773496   77.075742    3731.320
 0.75000     9.137600   457.045486     6.992943
336.773496   70.716502    3368.247
 1.00000     9.137600   484.438070     6.992943
336.773496   64.785943    2974.347

 COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.828855 -215.131791    -1.703598
-630.471916  -20.764831  -614.192151
 0.25000  -3.828855 -193.121246    -1.703598
-630.387333  -20.284266  -549.623783
 0.50000  -3.828855 -171.560241    -1.703598
-630.302750  -20.094010  -484.910747
 0.75000  -3.828855 -150.950059    -1.703598
-630.218167  -20.239616  -420.135395
 1.00000  -3.828855 -131.776895    -1.703598
-630.133584  -20.624608  -355.399803

 COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  10.309966  378.214409     6.107264
540.773026   80.299337    4202.094
 0.25000  10.309966  397.130400     6.107264
540.773026   75.045080    3894.623
 0.50000  10.309966  417.696132     6.107264
540.773026   70.099150    3553.630
 0.75000  10.309966  439.580279     6.107264
540.773026   65.498668    3185.083
 1.00000  10.309966  462.415800     6.107264
540.773026   61.461950    2790.913
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1845

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.650845 -195.407453    -4.604833
-562.972585   -52.022028  -676.023618
 0.25000  -4.650845 -177.058867    -4.604833
-562.884455   -48.631871  -603.032933
 0.50000  -4.650845 -159.084196    -4.604833
-562.796325   -45.699239  -526.552050
 0.75000  -4.650845 -141.902623    -4.604833
-562.708194   -43.303732  -453.953949
 1.00000  -4.650845 -125.918982    -4.604833
-562.620064   -41.373111  -381.389642

 COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.106606  387.047553     7.365063
626.642418   97.454721    4313.536
 0.25000   6.106606  413.948059     7.365063
626.660042   89.650071    4054.484
 0.50000   6.106606  443.281532     7.365063
626.680286   82.282182    3768.138
 0.75000   6.106606  474.619680     7.365063
626.709752   75.349772    3441.284
 1.00000   6.106606  507.517429     7.365063
626.746232   69.178733    3074.974

 COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -2.612605 -265.473446    -8.391279
-613.535726   -75.352751  -513.431570
 0.25000  -2.612605 -228.323192    -8.391279
-613.535726   -67.053081  -457.609707
 0.50000  -2.612605 -191.064926    -8.391279
-613.535726   -59.207868  -401.790706
 0.75000  -2.612605 -156.350647    -8.391279
-613.535726   -52.036077  -345.971815
 1.00000  -2.612605 -124.595825    -8.391279
-613.535726   -45.456794  -290.152924

 COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  10.309966  383.432487     7.657728
780.801162  101.275993    4350.746
 0.25000  10.309966  406.123749     7.657728
781.170475   93.007227    4061.208
 0.50000  10.309966  430.793929     7.657728
781.595135   84.965982    3731.320
 0.75000  10.309966  457.045486     7.657728
782.065324   77.113969    3368.247
 1.00000  10.309966  484.438070     7.657728
782.569713   69.706527    2974.347

 COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.676233 -217.410223    -9.075131
-708.400012   -82.766252  -676.023618
 0.25000  -4.676233 -193.404751    -9.075131
-708.885799   -74.063628  -603.032933
 0.50000  -4.676233 -171.560241    -9.075131
-709.371587   -66.004946  -526.552050
 0.75000  -4.676233 -150.950059    -9.075131
-709.857375   -58.709507  -453.953949
 1.00000  -4.676233 -131.776895    -9.075131
-710.343162   -52.163321  -381.543652

 COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  10.309966  387.047553     7.657728
780.801162  101.275993    4350.746
 0.25000  10.309966  413.948059     7.657728
781.170475   93.007227    4061.208
 0.50000  10.309966  443.281532     7.657728
781.595135   84.965982    3768.138
 0.75000  10.309966  474.619680     7.657728
782.065324   77.113969    3441.284
 1.00000  10.309966  507.517429     7.657728
782.569713   69.706527    3074.974
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1846

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.676233 -265.473446    -9.075131
-708.400012   -82.766252  -676.023618
 0.25000  -4.676233 -228.323192    -9.075131
-708.885799   -74.063628  -603.032933
 0.50000  -4.676233 -191.064926    -9.075131
-709.371587   -66.004946  -526.552050
 0.75000  -4.676233 -156.350647    -9.075131
-709.857375   -58.709507  -453.953949
 1.00000  -4.676233 -131.776895    -9.075131
-710.343162   -52.163321  -381.543652

 COMB   DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  10.309966  387.047553     7.657728
780.801162  101.275993    4350.746
 0.25000  10.309966  413.948059     7.657728
781.170475   93.007227    4061.208
 0.50000  10.309966  443.281532     7.657728
781.595135   84.965982    3768.138
 0.75000  10.309966  474.619680     7.657728
782.065324   77.113969    3441.284
 1.00000  10.309966  507.517429     7.657728
782.569713   69.706527    3074.974

 COMB   DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.676233 -265.473446    -9.075131
-708.400012   -82.766252  -676.023618
 0.25000  -4.676233 -228.323192    -9.075131
-708.885799   -74.063628  -603.032933
 0.50000  -4.676233 -191.064926    -9.075131
-709.371587   -66.004946  -526.552050
 0.75000  -4.676233 -156.350647    -9.075131
-709.857375   -58.709507  -453.953949
 1.00000  -4.676233 -131.776895    -9.075131
-710.343162   -52.163321  -381.543652

 ELEM     158 ================== LENGTH
=    4.927665

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.537054   54.321239     0.781942
326.031687    8.686650   298.695551
 0.25000   1.537054   54.335711     0.781942
326.055466    7.810643   231.844138
 0.50000   1.537054   54.351721     0.781942
326.081351    6.981625   164.964955
 0.75000   1.537054   54.369171     0.781942
326.120449    6.275967    98.061538
 1.00000   1.537054   54.389330     0.781942
326.168346    5.937134    31.145935

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.878022  -15.856691    -3.594395
-49.962468   -15.626475   -93.551507
 0.25000  -0.878022  -15.837306    -3.594395
-49.912081   -11.225221   -74.093506
 0.50000  -0.878022  -15.819836    -3.594395
-49.877631    -6.871152   -54.646861
 0.75000  -0.878022  -15.809146    -3.594395
-49.844907     3.384690   -35.227218
 1.00000  -0.878022  -15.798147    -3.594395
-49.816536    -2.968820   -15.864773

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   2.845653  119.977578     1.119272
571.230706   12.775150  681.162749
 0.25000   2.845653  119.992047     1.119272
571.254453   11.625328  533.463785
 0.50000   2.845653  120.008053     1.119272
571.280304   10.582549  385.853355
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1847

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000   2.845653  120.025500     1.119272
571.319155    9.750410   238.419873
 1.00000   2.845653  120.045653     1.119272
571.366993    9.557696    91.448467

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.416163  -28.902825    -9.212401
-75.607743   -47.092277  -173.428411
 0.25000  -1.416163  -28.883346    -9.212401
-75.557417   -35.850842  -137.899284
 0.50000  -1.416163  -28.865881    -9.212401
-75.523245   -24.752179  -102.379757
 0.75000  -1.416163  -28.855196    -9.212401
-75.490564   -13.852713   -66.859863
 1.00000  -1.416163  -28.844202    -9.212401
-75.462398    -7.660713   -31.485903

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   3.916749  212.423646     1.075744
683.236941   14.954433    1264.852
 0.25000   3.916749  212.436669     1.075744
683.258320   13.999179    1003.264
 0.50000   3.916749  212.451075     1.075744
683.281594   13.137481    741.800094
 0.75000   3.916749  212.466778     1.075744
683.316615   12.473584   480.730753
 1.00000   3.916749  212.484917     1.075744
683.359683   12.435283   219.562477

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.686088  -39.815698    -9.224913
-67.241740   -45.194806  -244.131714
 0.25000  -1.686088  -39.798076    -9.224913
-67.196433   -33.946409  -195.151171
 0.50000  -1.686088  -39.782359    -9.224913
-67.165615   -22.838503  -146.179264
 0.75000  -1.686088  -39.772739    -9.224913
-67.136193   -11.974309   -97.240923
 1.00000  -1.686088  -39.762843    -9.224913
-67.110797    -7.008940   -48.362815

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   4.389812  334.352266     4.562303
615.829383   36.172732    2058.649
 0.25000   4.389812  348.152077     4.562303
616.691928   30.860269    1711.467
 0.50000   4.389812  363.437450     4.562303
638.526393   25.632056    1338.284
 0.75000   4.389812  380.111505     4.562303
661.693311   20.655848   935.080653
 1.00000   4.389812  399.052259     4.562303
692.408650   16.288932   502.250682

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.803760 -102.720398    -7.916166
-277.985090   -38.830592  -279.324417
 0.25000  -1.803760  -84.392575    -7.916166
-254.283918   -29.394449  -224.352484
 0.50000  -1.803760  -67.882900    -7.916166
-229.436768   -20.112806  -169.390075
 0.75000  -1.803760  -57.953133    -7.916166
-201.936907   -11.102498  -114.462852
 1.00000  -1.803760  -47.737744    -7.916166
-195.806720    -6.920943   -61.846855

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.547340   90.835716     0.245938
260.077505    3.903193  543.955051
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1848

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   1.547340   90.994887     0.245938
260.338804    3.833217  432.841752
 0.50000   1.547340   91.170966     0.245938
260.623264    3.794280  321.402697
 0.75000   1.547340   91.362890     0.245938
261.051302    3.822713  209.579381
 1.00000   1.547340   91.584583     0.245938
261.577684    4.118772   97.367278

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.555123  -16.125164    -5.770491
-21.563533   -32.138816   -95.968628
 0.25000  -0.555123  -15.909782    -5.770491
-21.009785   -25.127155   -76.943950
 0.50000  -0.555123  -15.717655    -5.770491
-20.633126   -18.224781   -57.919311
 0.75000  -0.555123  -15.600105    -5.770491
-20.273514   -11.482167   -38.894752
 1.00000  -0.555123  -15.479156    -5.770491
-19.963126    -4.917046   -19.967751

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   3.009050  230.772150     1.771287
412.148259   15.842517    1423.676
 0.25000   3.009050  230.786621     1.771287
412.172014   13.980797    1139.458
 0.50000   3.009050  230.802628     1.771287
412.197874   12.156660   858.594000
 0.75000   3.009050  230.820075     1.771287
412.236786   10.533966   583.030759
 1.00000   3.009050  230.840229     1.771287
412.284639    9.254695   319.579499

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.974494  -30.523506    -5.694511
-45.490888   -29.734495  -193.058631
 0.25000  -0.974494  -30.503956    -5.694511
-45.440548   -22.897108  -155.532975
 0.50000  -0.974494  -30.486460    -5.694511
-45.406306   -16.194420  -118.007322
 0.75000  -0.974494  -30.475774    -5.694511
-45.373614    -9.634048   -80.481689
 1.00000  -0.974494  -30.464778    -5.694511
-45.345397    -4.866592   -42.980747

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   3.957778  255.407224     2.101295
630.119589   20.173572    1547.155
 0.25000   3.957778  255.420247     2.101295
630.140968   17.944512    1232.580
 0.50000   3.957778  255.434654     2.101295
630.164242   15.793603   920.961979
 0.75000   3.957778  255.450357     2.101295
630.190263   13.912707   614.234211
 1.00000   3.957778  255.468495     2.101295
630.242331   12.638305   318.430677

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.542802  -40.175561    -8.888499
-77.538619   -45.378368  -249.596471
 0.25000  -1.542802  -40.157939    -8.888499
-77.493312   -34.630755  -200.172539
 0.50000  -1.542802  -40.142219    -8.888499
-77.462495   -24.057535  -150.752304
 0.75000  -1.542802  -40.132602    -8.888499
-77.433072   -13.795176  -101.357767
 1.00000  -1.542802  -40.122706    -8.888499
-77.407677    -6.204078   -52.009113
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1849

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   4.453018  392.265077     6.032107
543.254122   44.593948    2455.853
 0.25000   4.453018  413.997452     6.032107
543.254122   37.464381    2076.603
 0.50000   4.453018  438.110005     6.032107
543.254122   30.393668    1654.738
 0.75000   4.453018  464.440067     6.032107
552.351096   23.532186    1182.743
 1.00000   4.453018  493.691978     6.032107
583.682618   17.160254   657.135368

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.809643  -134.453223    -7.574829
-370.287025   -38.418285  -285.180833
 0.25000  -1.809643  -106.302318    -7.574829
-343.429272   -29.550811  -229.714895
 0.50000  -1.809643   -80.606289    -7.574829
-313.225428   -20.937798  -174.253691
 0.75000  -1.809643   -65.508186    -7.574829
-313.225428   -11.985746  -118.258031
 1.00000  -1.809643   -49.978995    -7.574829
-313.225428    -6.543990   -63.444313

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.793900  285.309997     7.229280
40.667305   46.028277    1880.286
 0.25000   1.793900  314.486517     7.229280
40.667305   37.122536    1673.606
 0.50000   1.793900  346.977525     7.229280
40.667305   28.216849    1407.504
 0.75000   1.793900  382.519857     7.229280
40.667305   19.311432    1069.938
 1.00000   1.793900  420.394005     7.229280
40.667305   10.417944   650.401464

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.930544  -132.789505    -0.279474
-517.510968   -1.298147  -118.698769
 0.25000  -0.930544   -96.731453    -0.279474
-517.510968   -1.585422   -96.814335
 0.50000  -0.930544   -62.969139    -0.279474
-517.510968   -1.874056   -74.929901
 0.75000  -0.930544   -44.022982    -0.279474
-517.510968   -2.164077   -53.057702
 1.00000  -0.930544   -24.554087    -0.279474
-517.510968   -2.457053   -31.215114

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   3.104641  436.230421    10.604685
145.977100   67.744697    2833.822
 0.25000   3.104641  470.614013    10.604685
145.977100   54.688454    2465.369
 0.50000   3.104641  508.846905    10.604685
145.977100   41.637571    2030.420
 0.75000   3.104641  550.652156    10.604685
145.977100   28.725929    1517.553
 1.00000   3.104641  595.726035    10.604685
145.977100   16.162334   922.941437

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.322775 -168.412203    -0.618322
-591.862040   -3.148825  -206.710354
 0.25000  -1.322775 -125.357830    -0.618322
-591.862040   -3.272801  -168.216572
 0.50000  -1.322775  -85.352098    -0.618322
-591.862040   -3.405196  -129.722789
 0.75000  -1.322775  -62.592894    -0.618322
-591.862040   -3.540425   -91.244574
 1.00000  -1.322775  -39.190004    -0.618322
-591.862040   -3.681143   -52.810262
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1850

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   4.131010  478.569470     8.751356
328.924507   59.417226    3075.773
 0.25000   4.131010  510.063519     8.751356
328.924507   48.881037    2640.720
 0.50000   4.131010  545.078067     8.751356
328.924507   38.384655    2144.038
 0.75000   4.131010  583.362556     8.751356
328.924507   28.028076    1574.855
 1.00000   4.131010  624.689740     8.751356
328.924507   17.880569   927.281895

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.630378 -167.358566    -3.462133
-527.698323   -16.802787   -270.442565
 0.25000  -1.630378 -127.877154    -3.462133
-527.698323   -13.321975   -219.251534
 0.50000  -1.630378  -91.189637    -3.462133
-527.698323    -9.919083   -168.060502
 0.75000  -1.630378  -70.302647    -3.462133
-527.698323    -6.600413   -116.883839
 1.00000  -1.630378  -48.823477    -3.462133
-527.698323    -4.801748    -65.745464

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   4.512550  444.467881     7.613713
488.855724   53.544286    2822.095
 0.25000   4.512550  470.724402     7.613713
488.855724   44.453094    2403.357
 0.50000   4.512550  499.915778     7.613713
488.855724   35.412821    1933.313
 0.75000   4.512550  531.833223     7.613713
488.855724   26.577787    1402.570
 1.00000   4.512550  566.288980     7.613713
488.855724   18.163240   806.640635

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.870443 -150.267709    -7.073086
-466.112417   -36.779841   -290.246251
 0.25000  -1.870443 -117.350637    -7.073086
-466.112417   -28.817484   -234.343208
 0.50000  -1.870443  -86.762874    -7.073086
-466.112417   -20.989012   -178.441169
 0.75000  -1.870443  -69.348810    -7.073086
-466.112417   -13.453955   -122.565363
 1.00000  -1.870443  -51.439520    -7.073086
-466.112417    -7.476169   -66.740457

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   2.971969  73.573930     1.230722
425.247462   13.021448   371.718709
 0.25000   2.971969  73.582560     1.230722
425.261946   11.833362   288.733435
 0.50000   2.971969  73.592130     1.230722
425.278923   10.864200   205.740138
 0.75000   2.971969  73.602581     1.230722
425.298154   10.140259   122.735555
 1.00000   2.971969  73.613780     1.230722
425.319313   10.481773    39.764232

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -1.701727  -22.449699    -3.679614
-66.525718   -20.370211   -124.146990
 0.25000  -1.701727  -22.442035    -3.679614
-66.504732   -15.950253   -98.223061
 0.50000  -1.701727  -22.434476    -3.679614
-66.483967   -11.647140    -72.317516
 0.75000  -1.701727  -22.427188    -3.679614
-66.463834    -7.648000    -46.426655
 1.00000  -1.701727  -22.420332    -3.679614
-66.444778    -6.030509    -20.557823
 Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              1851

 F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   5.244206  157.440344     1.400207
740.531319   19.025612   813.284871
 0.25000   5.244206  157.448972     1.400207
740.545773   17.591725   636.194941
 0.50000   5.244206  157.458547     1.400207
740.562717   16.309480   459.120372
 0.75000   5.244206  157.468990     1.400207
740.581914   15.408947   282.216365
 1.00000   5.244206  157.480186     1.400207
740.603036   15.959559   106.253439

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -2.836750  -40.713170    -9.077378
-100.473791   -51.794677   -228.946003
 0.25000  -2.836750  -40.705509    -9.077378
-100.452834   -40.637290   -182.186452
 0.50000  -2.836750  -40.697953    -9.077378
-100.432098   -30.002907   -136.032991
 0.75000  -2.836750  -40.690668    -9.077378
-100.411991   -19.612023    -89.995967
 1.00000  -2.836750  -40.683815    -9.077378
-100.392961   -12.328811    -44.714443

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.741988  271.676531     1.532299
855.268312   22.450907    1468.973
 0.25000   6.741988  271.925023     1.532299
855.684369   21.065882    1165.601
```

```
 0.50000     6.741988   272.200755     1.532299
856.172115   19.861074   861.809484
 0.75000     6.741988   272.501499     1.532299
856.724730   19.078016   557.600055
 1.00000     6.741988   272.823928     1.532299
857.332780   19.797678   253.622952

  COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.207335  -57.502216   -8.987069
-96.436791  -50.434715  -324.261887
 0.25000   -3.207335  -57.281591   -8.987069
-95.833466  -39.728499  -259.079505
 0.50000   -3.207335  -57.064026   -8.987069
-95.236458  -29.178543  -194.325018
 0.75000   -3.207335  -56.854224   -8.987069
-94.657573  -19.103746  -129.647946
 1.00000   -3.207335  -56.656881   -8.987069
-94.109686  -12.472303  -65.452865

  COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.410766   375.054522     4.766459
757.398833   41.980757    2134.685
 0.25000    7.410766   387.830184     4.766459
767.202410   36.755987    1754.901
 0.50000    7.410766   401.995785     4.766459
788.171365   31.773450    1353.147
 0.75000    7.410766   417.417655     4.766459
812.178756   27.224584   930.017289
 1.00000    7.410766   433.926413     4.766459
838.739846   23.983634   489.055659

  COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.355477  -111.810861   -7.829558
-341.679667  -43.764172  -376.852417
 0.25000   -3.355477  -100.736893   -7.829558
-314.262512  -34.767209  -304.734916
 0.50000   -3.355477   -89.799045   -7.829558
-286.962666  -25.965316  -232.979404
 0.75000   -3.355477   -79.244538   -7.829558
-260.470084  -17.630356  -161.304664
 1.00000   -3.355477   -69.313044   -7.829558
-241.779781  -12.185147   -90.089447
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1503.OUT

                     Page
<              MOVING          LOAD          >
                              1852

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.519754   111.611333     0.412817
324.689800   6.273811   603.261101
 0.25000    2.519754   111.697619     0.412817
324.834340   5.982720   478.581874
 0.50000    2.519754   111.793364     0.412817
325.003777   5.762259   353.770224
 0.75000    2.519754   111.897794     0.412817
325.195745   5.713400   228.863353
 1.00000    2.519754   112.009755     0.412817
325.406967   6.107653   104.319681

  COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.137691  -21.744838   -5.436902
-27.962890  -31.472298  -124.789368
 0.25000   -1.137691  -21.668224   -5.436902
-27.753328  -24.913744  -100.544921
 0.50000   -1.137691  -21.592673   -5.436902
-27.545963  -18.409397   -76.725910
 0.75000   -1.137691  -21.519817   -5.436902
-27.344894  -12.095672   -52.978308
 1.00000   -1.137691  -21.451289   -5.436902
-27.154592   -6.527489   -29.764082

  COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.650874   272.000798     1.898601
479.402287  19.231683    1517.570
 0.25000    4.650874   272.009427     1.898601
479.416764  17.260781    1216.721
 0.50000    4.650874   272.019003     1.898601
479.433732  15.462341   916.174988
 0.75000    4.650874   272.029448     1.898601
479.452955  13.950835   619.324700
 1.00000    4.650874   272.040646     1.898601
479.474104  13.048655   333.047036

  COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.762888  -42.848023   -5.355360
-61.817370  -30.262508  -256.292275
 0.25000   -1.762888  -42.840359   -5.355360
-61.796392  -24.207003  -207.155098
 0.50000   -1.762888  -42.832802   -5.355360
-61.775634  -17.866324  -158.417293
 0.75000   -1.762888  -42.825514   -5.355360
-61.755507  -11.988779  -109.736303
 1.00000   -1.762888  -42.818659   -5.355360
-61.736458   -7.268277   -61.488588

  COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.543276   309.041149     2.344534
769.196119  16.693254    1693.328
 0.25000    6.543276   309.048915     2.344534
769.809148  23.667416    1350.109
 0.50000    6.543276   309.057534     2.344534
769.824419  21.433343    1007.158
 0.75000    6.543276   309.066934     2.344534
769.841720  19.616943   667.538160
 1.00000    6.543276   309.077012     2.344534
769.860754  18.934045   337.502372

  COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.902062  -56.514436   -8.707733
-104.366129  -49.382224  -330.764326
 0.25000   -2.902062  -56.507539   -8.707733
-104.347248  -39.043081  -265.757042
 0.50000   -2.902062  -56.500737   -8.707733
-104.328566  -28.888875  -201.008417
 0.75000   -2.902062  -56.494178   -8.707733
-104.310452  -19.112032  -136.310757
 1.00000   -2.902062  -56.488009   -8.707733
-104.293308  -11.341433   -72.497533
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1503.OUT

                     Page
<              MOVING          LOAD          >
                              1853

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.472286   423.034214     6.082137
664.550713  48.796607    2476.031
 0.25000    7.472286   442.879449     6.082137
664.560510  42.051751    2063.021

 0.50000    7.472286   464.830842     6.082137
664.608325  35.535952    1616.153
 0.75000    7.472286   488.674549     6.082137
687.396614  29.385590    1134.742
 1.00000    7.472286   514.135599     6.082137
717.870836  24.210470   621.002891

  COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.310493  -137.327595   -7.540667
-463.677987  -42.386330  -381.459574
 0.25000   -3.310493  -120.766799   -7.540667
-432.288492  -33.930955  -308.898397
 0.50000   -3.310493  -104.356072   -7.540667
-398.515062  -25.719571  -236.665941
 0.75000   -3.310493   -88.501292   -7.540667
-389.055957  -17.856584  -164.512210
 1.00000   -3.310493   -73.582727   -7.540667
-383.383774  -11.731280   -93.137051

  COMB DL-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    3.238301   264.861579     6.807549
49.159100   43.687227    1723.099
 0.25000    3.238301   291.319978     6.807549
49.159100   36.008738    1503.914
 0.50000    3.238301   320.476735     6.807549
49.159100   28.392571    1240.581
 0.75000    3.238301   352.018542     6.807549
49.159100   20.814591   929.467857
 1.00000    3.238301   385.554626     6.807549
49.159100   13.276392   568.518693

  COMB DL-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.522365  -118.661832   -0.499998
-630.910364  -2.504690  -153.525501
 0.25000   -1.522365   -98.065195   -0.499998
-635.300462  -2.602845  -125.004857
 0.50000   -1.522365   -77.593065   -0.499998
-639.690559  -2.929886   -96.584448
 0.75000   -1.522365   -57.751465   -0.499998
-644.080657  -3.396999   -68.203331
 1.00000   -1.522365   -39.107288   -0.499998
-648.470545  -3.898997   -39.831803

  COMB DL-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    5.221175   424.350409    10.082861
154.876190  66.107812    2649.049
 0.25000    5.221175   454.595404    10.082861
154.876190  54.557042    2267.089
 0.50000    5.221175   487.947088    10.082861
154.876190  43.199606    1834.803
 0.75000    5.221175   524.066352    10.082861
154.876190  32.008289    1352.845
 1.00000    5.221175   562.500309    10.082861
154.876190  21.011585   827.765953

  COMB DL-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.158471  -152.297872   -0.936842
-733.391618  -4.819129  -273.429750
 0.25000   -2.158471  -128.386419   -0.936842
-733.877308  -4.883829  -223.295850
 0.50000   -2.158471  -104.611517   -0.936842
-734.362998  -5.069581  -173.258408
 0.75000   -2.158471   -81.624089   -0.936842
-734.848688  -5.347502  -123.292914
 1.00000   -2.158471   -59.970730   -0.936842
-735.334354  -5.723064   -73.341705
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1503.OUT

                     Page
<              MOVING          LOAD          >
                              1854

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB DL-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    6.757672   488.515467     8.546106
378.203982  60.083355    2975.826
 0.25000    6.757672   516.195940     8.546106
378.203982  50.554031    2513.767
 0.50000    6.757672   546.721643     8.546106
378.203982  41.241113    2005.533
 0.75000    6.757672   579.784234     8.546106
378.203982  32.180455    1450.790
 1.00000    6.757672   614.969986     8.546106
378.203982  23.565249   853.858796

  COMB DL-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -2.751182  -157.688876   -3.564939
-661.172302  -19.236968  -355.561247
 0.25000   -2.751182  -135.760717   -3.564939
-661.087736  -16.070153  -288.570128
 0.50000   -2.751182  -113.962118   -3.564939
-661.003170  -13.061778  -221.852251
 0.75000   -2.751182   -92.884887   -3.564939
-660.918605  -10.245153  -155.099096
 1.00000   -2.751182   -73.033900   -3.564939
-660.834043   -8.109885   -88.404519

  COMB DL-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.581313   467.406338     7.564369
594.318477  52.387889    2790.981
 0.25000    7.581313   490.480545     7.564369
594.318477  47.994578    2338.013
 0.50000    7.581313   515.926577     7.564369
594.318477  39.830516    1846.559
 0.75000    7.581313   543.487469     7.564369
594.318477  32.008726    1316.363
 1.00000    7.581313   572.818369     7.564369
594.318477  24.991608   751.348539

  COMB DL-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.337758  -146.560446   -7.120867
-586.124154  -40.109020  -381.417350
 0.25000   -3.337758  -128.279847   -7.120867
-586.036041  -32.432790  -308.264598
 0.50000   -3.337758  -110.107366   -7.120867
-585.947929  -24.938441  -235.411204
 0.75000   -3.337758   -92.536305   -7.120867
-585.859816  -17.869085  -162.654803
 1.00000   -3.337758   -75.987367   -7.120867
-585.771708  -12.053445   -91.339354

  COMB      DB ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    4.512550   478.569470    10.604685
683.236941  67.744697    3075.773
 0.25000    4.512550   510.063519    10.604685
683.258320  54.688454    2640.720
 0.50000    4.512550   545.078067    10.604685
683.281594  41.637571    2144.038
 0.75000    4.512550   583.362556    10.604685
683.316615  28.725929    1574.855
 1.00000    4.512550   624.689740    10.604685
692.408650  18.163240   927.281895

  COMB      DB ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -1.870443  -168.412303   -9.224913
-591.862040  -47.092277  -290.246251
 0.25000   -1.870443  -127.877154   -9.224913
-591.862040  -35.850842  -234.343208
 0.50000   -1.870443   -91.189637   -9.224913
-591.862040  -24.752179  -178.441169
 0.75000   -1.870443   -70.302647   -9.224913
-591.862040  -13.852713  -122.565363
 1.00000   -1.870443   -51.439520   -9.224913
-591.862040   -7.660713   -66.740457
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1503.OUT

                     Page
<              MOVING          LOAD          >
                              1855

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

  COMB      DL ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.581313   488.515467    10.082861
855.268312  66.107812    2975.826
 0.25000    7.581313   516.195940    10.082861
855.684369  54.557042    2513.767
 0.50000    7.581313   546.721643    10.082861
856.172115  43.199606    2005.533
 0.75000    7.581313   579.784234    10.082861
856.724730  32.180455    1450.790
 1.00000    7.581313   614.969986    10.082861
857.332780  24.991608   853.858796

  COMB      DL ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.355477  -157.688876   -9.077378
-733.391618  -51.794677  -381.459574
 0.25000   -3.355477  -135.760717   -9.077378
-733.877308  -40.837290  -308.898397
 0.50000   -3.355477  -113.962118   -9.077378
-734.362998  -30.002907  -236.665941
 0.75000   -3.355477   -92.884887   -9.077378
-734.848688  -19.612023  -164.512210
 1.00000   -3.355477   -75.987367   -9.077378
-735.334354  -12.472303   -93.137051

  COMB      CAR ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.581313   488.515467    10.604685
855.268312  67.744697    3075.773
 0.25000    7.581313   516.195940    10.604685
855.684369  54.688454    2640.720
 0.50000    7.581313   546.721643    10.604685
856.172115  43.199606    2144.038
 0.75000    7.581313   583.362556    10.604685
856.724730  32.180455    1574.855
 1.00000    7.581313   624.689740    10.604685
857.332780  24.991608   927.281895

  COMB      CAR ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.355477  -168.412303   -9.224913
-733.391618  -51.794677  -381.459574
 0.25000   -3.355477  -135.760717   -9.224913
-733.877308  -40.837290  -308.898397
 0.50000   -3.355477  -113.962118   -9.224913
-734.362998  -30.002907  -236.665941
 0.75000   -3.355477   -92.884887   -9.224913
-734.848688  -19.612023  -164.512210
 1.00000   -3.355477   -75.987367   -9.224913
-735.334354  -12.472303   -93.137051

  COMB      DESIGN ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    7.581313   488.515467    10.604685
855.268312  67.744697    3075.773
 0.25000    7.581313   516.195940    10.604685
855.684369  54.688454    2640.720
 0.50000    7.581313   546.721643    10.604685
856.172115  43.199606    2144.038
 0.75000    7.581313   583.362556    10.604685
856.724730  32.180455    1574.855
 1.00000    7.581313   624.689740    10.604685
857.332780  24.991608   927.281895

  COMB      DESIGN ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -3.355477  -168.412303   -9.224913
-733.391618  -51.794677  -381.459574
 0.25000   -3.355477  -135.760717   -9.224913
-733.877308  -40.837290  -308.898397
 0.50000   -3.355477  -113.962118   -9.224913
-734.362998  -30.002907  -236.665941
 0.75000   -3.355477   -92.884887   -9.224913
-734.848688  -19.612023  -164.512210
 1.00000   -3.355477   -75.987367   -9.224913
-735.334354  -12.472303   -93.137051
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1503.OUT

                     Page
<              MOVING          LOAD          >
                              1856

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      159 ================== LENGTH
=    1.478494

  COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.717532   20.467121     1.906159
222.328117   4.261296   30.402816
 0.25000    0.717532   20.473008     1.906159
222.340891   3.570505   22.844231
 0.50000    0.717532   20.479098     1.906159
222.354164   2.885618   15.681145
 0.75000    0.717532   20.485320     1.906159
222.367738   2.228135    7.714205
 1.00000    0.717532   20.491589     1.906159
222.381359   1.681793    0.142847

  COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.410571  -10.703864   -0.723093
-32.186290  -1.930892  -15.792891
 0.25000   -0.410571  -10.699825   -0.723093
-32.175626  -1.681907  -11.842569
 0.50000   -0.410571  -10.695724   -0.723093
-32.164515  -1.432922   -7.892247
 0.75000   -0.410571  -10.691582   -0.723093
-32.153276  -1.183937   -3.941925
 1.00000   -0.410571  -10.687419   -0.723093
-32.141972  -0.962378   -0.056825

  COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.328694   60.815110     2.689820
389.569530  6.535001    90.156955
 0.25000    1.328694   60.820995     2.689820
389.582286  5.572347    67.684801
 0.50000    1.328694   60.827082     2.689820
389.595542  4.630199    45.208447
 0.75000    1.328694   60.833301     2.689820
389.609098  3.746353    22.727641
 1.00000    1.328694   60.839568     2.689820
389.622701  3.109985    0.246697

  COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.662341  -21.265176   -4.667023
-49.759967  -6.855334  -31.392050
 0.25000   -0.662341  -21.261141   -4.667023
-49.749319  -5.323117  -23.538014
 0.50000   -0.662341  -21.257044   -4.667023
-49.738224  -3.790900  -15.683977
 0.75000   -0.662341  -21.252905   -4.667023
-49.727002  -2.259133   -7.829941
 1.00000   -0.662341  -21.248745   -4.667023
-49.715714  -1.552194   -0.093311

  COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.832452   147.289585     2.903970
466.419321  8.073248    218.036397
 0.25000    1.832452   147.294882     2.903970
466.430805  7.030200    163.600587
 0.50000    1.832452   147.300361     2.903970
466.442739  6.008406    109.150997
 0.75000    1.832452   147.305959     2.903970
466.454943  5.036954    54.717401
 1.00000    1.832452   147.311599     2.903970
466.467191  4.289202    0.286896

  COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.789195  -32.720048   -4.464422
-43.420745  -5.669575  -48.306252
 0.25000   -0.789195  -32.716415   -4.464422
-43.411158  -4.404623  -36.217619
 0.50000   -0.789195  -32.712727   -4.464422
-43.401169  -3.425651  -24.128986
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1503.OUT

                     Page
<              MOVING          LOAD          >
                              1857

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000   -0.789195  -32.709001   -4.464422
-43.391065  -2.446679  -12.040353
 1.00000   -0.789195  -32.705257   -4.464422
-43.380903   -1.849273   -0.099468

  COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    2.059552   338.559527     5.189651
469.762151  11.568701   500.815017
 0.25000    2.059552   344.043784     5.189651
477.650091  9.713033    381.770668
 0.50000    2.059552   349.726269     5.189651
485.677481  7.916062    258.819356
 0.75000    2.059552   355.537818     5.189651
493.798037  6.205272    131.715485
 1.00000    2.059552   361.395688     5.189651
504.330606  4.823636    0.352211

  COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.844129  -56.543611   -3.859603
-207.746640  -5.381231   -61.743413
 0.25000   -0.844129  -52.939144   -3.859603
-198.988544  -4.226165   -46.277124
 0.50000   -0.844129  -49.274203   -3.859603
-189.799970  -3.371039   -30.810834
 0.75000   -0.844129  -45.568903   -3.859603
-180.486708  -2.515912   -15.344544
 1.00000   -0.844129  -41.843357   -3.859603
-171.110282  -1.977547   -0.267115

  COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.723788   65.397212     0.708556
177.032271  2.444042    96.788266
 0.25000    0.723788   65.461753     0.708556
177.172637  2.205434    72.687959
 0.50000    0.723788   65.528722     0.708556
177.318499  1.978751    48.541448
 0.75000    0.723788   65.597141     0.708556
177.469660  1.775074    24.397272
 1.00000    0.723788   65.666079     0.708556
177.617351  1.691619    0.107474

  COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.259978  -13.696899   -4.311668
-13.929553  -5.657722  -19.959967
 0.25000   -0.259978  -13.652503   -4.311668
-13.812381  -4.076462  -14.964090
 0.50000   -0.259978  -13.607423   -4.311668
-13.690297  -2.495202   -9.968213
 0.75000   -0.259978  -13.561887   -4.311668
-13.566803  -0.988715   -4.972336
 1.00000   -0.259978  -13.516122   -4.311668
-13.442594   -0.609004   -0.033018

  COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.411775   215.465918     2.285135
318.193219  5.980837    318.749751
 0.25000    1.411775   215.471804     2.285135
318.205980  5.197788    239.115018
 0.50000    1.411775   215.477892     2.285135
318.219240  4.460036    159.476084
 0.75000    1.411775   215.484112     2.285135
318.232800  3.797220    79.832699
 1.00000    1.411775   215.490379     2.285135
318.246409  3.303574    0.204772

  COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.456797  -29.154261   -3.894996
-59.379377  -4.590880   -43.024604
 Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1503.OUT

                     Page
<              MOVING          LOAD          >
                              1858

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   -0.456797  -29.150225   -3.894996
-59.368725  -3.265533   -32.254577
 0.50000   -0.456797  -29.146127   -3.894996
-59.357627  -2.401263   -21.484551
 0.75000   -0.456797  -29.141987   -3.894996
-59.346400  -1.516994   -10.714524
 1.00000   -0.456797  -29.137827   -3.894996
-59.335108  -1.069934   -0.105086

  COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.853738   214.284891     3.319706
462.717750  8.376214    317.095369
 0.25000    1.853738   214.290188     3.319706
462.729235  7.214389    237.896517
```

0.50000	1.853738	214.295667	3.319706
462.741169	6.103749	158.693885	
0.75000	1.853738	214.301265	3.319706
462.753373	5.085579	79.487246	
1.00000	1.853738	214.306905	3.319706
462.765621	4.338419	0.295949	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.722439	-35.224723	-5.163910
-77.079595	-6.149365	-51.998963	
0.25000	-0.722439	-35.221090	-5.163910
-77.070009	-4.333943	-38.984544	
0.50000	-0.722439	-35.217402	-5.163910
-77.060020	-3.028360	-25.970124	
0.75000	-0.722439	-35.213676	-5.163910
-77.049916	-2.205955	-12.955704	
1.00000	-0.722439	-35.209932	-5.163910
-77.039753	-1.692590	-0.137070	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.092400	443.669201	5.679271
394.054838	12.397871	656.096910	
0.25000	2.092400	452.040690	5.679271
403.912445	10.355935	501.407742	
0.50000	2.092400	460.734719	5.679271
413.995300	8.358591	340.769556	
0.75000	2.092400	469.638590	5.679271
424.228643	6.450042	173.782803	
1.00000	2.092400	478.618745	5.679271
434.537711	4.900074	0.303351	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.846745	-59.022229	-4.408762
-246.300322	-5.813164	-63.511481	
0.25000	-0.846745	-53.850269	-4.408762
-235.396360	-4.309418	-47.612947	
0.50000	-0.846745	-48.580628	-4.408762
-228.930535	-3.179013	-31.714412	
0.75000	-0.846745	-43.245796	-4.408762
-228.930535	-2.451250	-15.815878	
1.00000	-0.846745	-43.012776	-4.408762
-228.930535	-1.983246	-0.374031	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.852074	440.594693	4.642811
30.916025	8.574093	651.107102	
0.25000	0.852074	451.171976	4.642811
30.916025	6.850507	500.005665	
0.50000	0.852074	462.219267	4.642811
30.916025	5.146368	341.426684	
0.75000	0.852074	473.566544	4.642811
30.916025	3.475082	174.793004	
1.00000	0.852074	485.022258	4.642811
30.916025	1.908619	0.061726	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1859

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.434741	-21.231723	-0.286256
-347.563909	-1.329461	-31.337291	
0.25000	-0.434741	-21.231723	-0.286256
-347.563909	-1.250988	-23.489547	
0.50000	-0.434741	-21.231723	-0.286256
-347.563909	-1.172518	-15.641802	
0.75000	-0.434741	-21.228498	-0.286256
-347.563909	-1.094244	-7.792873	
1.00000	-0.434741	-21.228498	-0.286256
-347.563909	-1.017470	-0.494484	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.470166	624.801600	7.387552
142.881593	13.158480	923.553354	
0.25000	1.470166	637.492694	7.387552
142.881593	10.511171	706.706459	
0.50000	1.470166	650.714864	7.387552
142.881593	7.941137	480.872713	
0.75000	1.470166	664.283834	7.387552
142.881593	5.538873	245.393982	
1.00000	1.470166	677.978256	7.387552
142.881593	3.447874	0.155190	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.618596	-41.452476	-0.522769
-435.384211	-2.097313	-52.991016	
0.25000	-0.618596	-35.899315	-0.522769
-435.384211	-1.930102	-39.721784	
0.50000	-0.618596	-35.899315	-0.522769
-435.384211	-1.762915	-26.452552	
0.75000	-0.618596	-35.899315	-0.522769
-435.384211	-1.595846	-13.183320	
1.00000	-0.618596	-35.895537	-0.522769
-435.384211	-1.447943	-0.630765	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.949433	627.336838	6.541820
254.246897	13.444901	927.382142	
0.25000	1.949433	638.982567	6.541820
254.246897	11.075692	708.436559	
0.50000	1.949433	651.112604	6.541820
254.246897	8.742223	481.242997	
0.75000	1.949433	663.559666	6.541820
254.246897	6.501838	245.200692	
1.00000	1.949433	676.121419	6.541820
254.246897	4.567621	0.208900	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.762951	-50.469275	-2.259354
-379.459926	-3.360387	-65.916391	
0.25000	-0.762951	-44.650883	-2.259354
-379.459926	-2.604197	-49.412373	
0.50000	-0.762951	-44.650883	-2.259354
-379.459926	-2.306255	-32.908355	
0.75000	-0.762951	-44.650883	-2.259354
-379.459926	-2.031387	-16.404338	
1.00000	-0.762951	-44.647425	-2.259354
-379.459926	-1.786241	-0.564636	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.123865	545.324588	6.284830
357.229348	13.362866	806.237999	
0.25000	2.123865	555.034312	6.284830
357.229348	11.094124	615.456070	
0.50000	2.123865	565.147731	6.284830
357.229348	8.862214	417.797273	
0.75000	2.123865	575.525433	6.284830
357.229348	6.732701	212.760822	
1.00000	2.123865	585.998745	6.284830
357.229348	4.973933	0.265080	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1860

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.875111	-50.153062	-4.696158
-332.994669	-6.597006	-66.850619	
0.25000	-0.875111	-45.278138	-4.696158
-332.994669	-4.974173	-50.114754	
0.50000	-0.875111	-45.278138	-4.696158
-332.994669	-3.679916	-33.378888	
0.75000	-0.875111	-45.278138	-4.696158
-332.994669	-2.519416	-16.643022	
1.00000	-0.875111	-45.275255	-4.696158
-332.994669	-2.049291	-0.504350	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.388478	28.628499	2.710421
289.085440	6.954678	38.950151	
0.25000	1.388478	28.632060	2.710421
289.091553	6.010584	29.241415	
0.50000	1.388478	28.635722	2.710421
289.097891	5.068031	19.532914	
0.75000	1.388478	28.639469	2.710421
289.104448	4.137162	9.818560	
1.00000	1.388478	28.643298	2.710421
289.111190	3.255271	0.220421	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.796270	-14.859090	-1.622145
-43.260060	-3.980526	-20.529697	
0.25000	-0.796270	-14.856425	-1.622145
-43.252871	-3.447125	-15.379213	
0.50000	-0.796270	-14.853797	-1.622145
-43.245762	-2.914240	-10.228660	
0.75000	-0.796270	-14.851216	-1.622145
-43.238756	-2.383289	-5.078167	
1.00000	-0.796270	-14.848685	-1.622145
-43.231889	-1.867022	-0.074709	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.449217	77.758706	3.765973
500.742819	10.238286	104.858781	
0.25000	2.449217	77.762166	3.765973
500.748920	8.922943	78.690411	
0.50000	2.449217	77.765927	3.765973
500.755248	7.693303	52.520227	
0.75000	2.449217	77.769673	3.765973
500.761793	6.553547	26.347868	
1.00000	2.449217	77.773500	3.765973
500.768524	5.733568	0.372318	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.327512	-30.398473	-5.463532
-65.910975	-9.680163	-44.734957	
0.25000	-1.327512	-30.395810	-5.463532
-65.903799	-7.814203	-33.518431	
0.50000	-1.327512	-30.393185	-5.463532
-65.896701	-6.026341	-22.303130	
0.75000	-1.327512	-30.390606	-5.463532
-65.889707	-4.323540	-11.085778	
1.00000	-1.327512	-30.388078	-5.463532
-65.882852	-3.111649	-0.119386	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.153582	187.905062	4.141028
579.001478	12.305984	252.047506	
0.25000	3.153582	188.007591	4.141028
579.177106	10.875817	189.154094	
0.50000	3.153582	188.113013	4.141028
579.359262	9.529316	126.210274	
0.75000	3.153582	188.223883	4.141028
579.547694	8.327592	63.213484	
1.00000	3.153582	188.331110	4.141028
579.741451	7.382799	0.405320	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1861

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.501672	-46.797227	-5.425551
-63.552905	-9.457162	-65.494690	
0.25000	-1.501672	-46.720547	-5.425551
-63.346315	-7.634013	-49.381250	
0.50000	-1.501672	-46.644956	-5.425551
-63.141987	-6.069763	-32.669243	
0.75000	-1.501672	-46.570722	-5.425551
-62.940663	-4.635397	-16.256023	
1.00000	-1.501672	-46.497912	-5.425551
-62.743296	-3.519492	-0.146148	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.472975	369.686682	5.972369
563.005597	15.690415	497.935744	
0.25000	3.472975	374.910212	5.972369
570.701371	13.599022	369.830798	
0.50000	3.472975	380.269002	5.972369
578.710389	11.592891	249.180699	
0.75000	3.472975	385.761703	5.972369
587.008543	9.724289	125.939744	
1.00000	3.472975	391.371442	5.972369
595.558884	8.133106	0.461760	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.570651	-77.211259	-4.748103
-238.506274	-8.877536	-90.107682	
0.25000	-1.570651	-73.567249	-4.748103
-229.414536	-7.290427	-67.515320	
0.50000	-1.570651	-69.964992	-4.748103
-220.403237	-5.914311	-44.940668	
0.75000	-1.570651	-66.418341	-4.748103
-211.522907	-4.660403	-22.382162	
1.00000	-1.570651	-62.942541	-4.748103
-202.807571	-3.679888	-0.354303	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.177644	77.420608	1.053133
217.657835	3.607212	103.730316	
0.25000	1.177644	77.456210	1.053133
217.718843	3.255517	77.839196	
0.50000	1.177644	77.492818	1.053133
217.782119	2.930525	51.931188	
0.75000	1.177644	77.530275	1.053133
217.847575	2.680506	26.005661	
1.00000	1.177644	77.568551	1.053133
217.914880	2.751567	0.145085	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.532735	-19.158127	-3.990482
-18.288024	-6.078721	-29.828919	
0.25000	-0.532735	-19.131496	-3.990482
-18.216260	-4.639145	-22.355151	
0.50000	-0.532735	-19.105243	-3.990482
-18.145283	-3.238077	-14.882383	
0.75000	-0.532735	-19.079461	-3.990482
-18.075350	-1.919866	-7.408456	
1.00000	-0.532735	-19.054174	-3.990482
-18.006791	-1.247912	-0.039712	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.177958	251.859946	2.681734
357.817649	8.039817	332.330108	
0.25000	2.177958	251.862507	2.681734
357.823760	7.127986	249.268549	
0.50000	2.177958	251.866169	2.681734
357.830095	6.279997	166.205841	
0.75000	2.177958	251.869915	2.681734
357.836649	5.549910	83.136380	
1.00000	2.177958	251.873744	2.681734
357.843388	5.094987	0.242771	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1862

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.825716	-42.642956	-3.872223
-63.734105	-6.120897	-61.550583	
0.25000	-0.825716	-42.640291	-3.872223
-63.726920	-4.762488	-46.143586	
0.50000	-0.825716	-42.637663	-3.872223
-63.719813	-3.557023	-30.741095	
0.75000	-0.825716	-42.635083	-3.872223
-63.712811	-2.568513	-15.337421	
1.00000	-0.825716	-42.632553	-3.872223
-63.705946	-1.934098	-0.152082	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.060978	254.062292	4.164550
551.139152	11.918125	336.212502	
0.25000	3.060978	254.065497	4.164550
551.144651	10.478419	252.198758	
0.50000	3.060978	254.068792	4.164550
551.150354	9.121594	168.184061	
0.75000	3.060978	254.072164	4.164550
551.156252	7.935202	84.164239	
1.00000	3.060978	254.075610	4.164550
551.162317	7.163141	0.390698	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.358701	-50.733235	-5.635585
-89.148169	-9.327837	-72.535032	
0.25000	-1.358701	-50.730837	-5.635585
-89.141702	-7.368544	-54.370684	
0.50000	-1.358701	-50.728472	-5.635585
-89.135306	-5.548226	-36.211504	
0.75000	-1.358701	-50.726150	-5.635585
-89.129004	-4.123616	-18.051678	
1.00000	-1.358701	-50.723873	-5.635585
-89.122826	-3.183727	-0.191546	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.506575	470.230366	6.154569
477.981127	15.984325	620.441446	
0.25000	3.506575	478.211518	6.154569
486.859742	13.819962	471.039973	
0.50000	3.506575	486.428284	6.154569
496.170464	11.720111	317.871247	
0.75000	3.506575	494.821644	6.154569
505.965515	9.764872	160.850900	
1.00000	3.506575	503.378686	6.154569
515.880625	8.209963	0.418989	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.549555	-82.820788	-4.913939
-300.195721	-8.943993	-93.188872	
0.25000	-1.549555	-77.821012	-4.913939
-289.576115	-7.260280	-69.845109	
0.50000	-1.549555	-72.855442	-4.913939
-279.008413	-5.710618	-46.510245	
0.75000	-1.549555	-67.982962	-4.913939
-274.631164	-4.470095	-23.175967	
1.00000	-1.549555	-63.218994	-4.913939
-273.019562	-3.629460	-0.491679	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.532597	432.479013	4.219410
45.752270	9.480678	569.812797	
0.25000	1.532597	442.860218	4.219410
45.722363	7.981539	434.224853	
0.50000	1.532597	453.503210	4.219410
45.531581	6.482598	294.059595	
0.75000	1.532597	464.365714	4.219410
45.159109	4.992120	149.186195	
1.00000	1.532597	475.373320	4.219410
44.601046	3.591630	0.114545	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1863

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.711999	-37.780211	-0.471595
-432.542595	-2.053541	-39.897779	
0.25000	-0.711999	-32.715900	-0.471595
-433.830083	-1.955912	-29.924816	
0.50000	-0.711999	-29.138440	-0.471595
-434.956504	-1.859655	-19.951857	
0.75000	-0.711999	-29.018058	-0.471595
-435.901234	-1.761246	-9.981490	
1.00000	-0.711999	-29.010249	-0.471595
-436.660374	-1.665943	-0.648050	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.463626	632.291459	6.868013
152.975937	15.069588	829.192530	
0.25000	2.463626	644.232326	6.868013
152.975937	12.634307	629.911699	
0.50000	2.463626	656.474626	6.868013
152.975937	10.420015	425.310917	
0.75000	2.463626	668.975183	6.868013
152.975937	7.936432	215.208263	
1.00000	2.463626	681.693996	6.868013
152.965594	5.772834	0.228505	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.009554	-67.137542	-0.771858
-528.372586	-3.144178	-73.410241	
0.25000	-1.009554	-60.939475	-0.771858
-528.518334	-2.937313	-55.059504	
0.50000	-1.009554	-54.785087	-0.771858
-528.664060	-2.735728	-36.714110	
0.75000	-1.009554	-51.896296	-0.771858
-528.809786	-2.540381	-18.372410	
1.00000	-1.009554	-51.812036	-0.771858
-528.945169	-2.362332	-0.829631	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.181553	649.257667	6.440928
289.490618	15.905671	854.686391	
0.25000	3.181553	660.194733	6.440928
289.490618	13.647406	648.382322	
0.50000	3.181553	671.407526	6.440928
289.490618	11.438577	437.194862	
0.75000	3.181553	682.857525	6.440928
289.490618	9.319599	220.959601	
1.00000	3.181553	694.508513	6.440928
289.490990	7.450378	0.288368	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.287662	-77.841807	-2.612263
-469.057058	-5.554183	-88.467913	
0.25000	-1.287662	-72.121140	-2.612263
-469.031681	-4.710540	-66.340437	
0.50000	-1.287662	-66.442118	-2.612263
-469.006308	-3.904123	-44.216797	
0.75000	-1.287662	-63.281991	-2.612263
-468.980935	-3.396985	-22.095864	
1.00000	-1.287662	-63.191972	-2.612263
-468.955934	-3.014207	-0.755697	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.561442	570.126014	6.562531
428.736364	16.644415	751.514119	
0.25000	3.561442	579.243349	6.562531
428.736364	14.346858	569.794283	
0.50000	3.561442	588.590522	6.562531
428.736364	12.110787	384.003087	
0.75000	3.561442	598.135456	6.562531
428.736364	10.007842	194.003121	
1.00000	3.561442	607.847963	6.562531
428.736842	8.337113	0.379129	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1864

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.562117	-76.429813	-4.988247
-413.686221	-9.244603	-91.391176	
0.25000	-1.562117	-71.659530	-4.988247
-413.579780	-7.524189	-68.523198	
0.50000	-1.562117	-66.923997	-4.988247
-413.553342	-5.866717	-45.658673	
0.75000	-1.562117	-64.272548	-4.988247
-413.526905	-4.489662	-22.796036	
1.00000	-1.562117	-64.197068	-4.988247
-413.500945	-3.657998	-0.671459	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.123865	627.336838	7.387552
469.762151	13.444901	927.382142	
0.25000	2.123865	638.982567	7.387552
477.650091	11.094124	708.436559	
0.50000	2.123865	651.112604	7.387552
485.677481	8.862214	481.242997	
0.75000	2.123865	664.283834	7.387552
493.798037	6.732701	245.393982	
1.00000	2.123865	677.978256	7.387552
504.330606	4.973933	0.352211	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.875111	-59.022229	-5.163910
-435.384211	-6.855334	-66.850619	
0.25000	-0.875111	-53.850269	-5.163910
-435.384211	-5.323117	-50.114754	
0.50000	-0.875111	-49.274203	-5.163910
-435.384211	-3.790900	-33.378888	
0.75000	-0.875111	-45.568903	-5.163910
-435.384211	-2.519416	-16.643022	
1.00000	-0.875111	-45.275255	-5.163910
-435.384211	-2.049291	-0.630765	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.561442	649.257667	6.868013
579.001478	16.644415	854.686391	
0.25000	3.561442	660.194733	6.868013
579.177106	14.346858	648.382322	
0.50000	3.561442	671.407526	6.868013
579.359262	12.110787	437.194862	
0.75000	3.561442	682.857525	6.868013
587.008543	10.007842	220.959601	
1.00000	3.561442	694.508513	6.868013
595.558884	8.337113	0.461760	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.570651	-82.820788	-5.635585
-528.372586	-9.681163	-93.188872	
0.25000	-1.570651	-77.821012	-5.635585
-528.518334	-7.814203	-69.845109	
0.50000	-1.570651	-72.855442	-5.635585
-528.664060	-6.069763	-46.510245	
0.75000	-1.570651	-67.982962	-5.635585
-528.809786	-4.660403	-23.175967	
1.00000	-1.570651	-64.197068	-5.635585
-528.945169	-3.679888	-0.829631	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.561442	649.257667	7.387552
579.001478	16.644415	927.382142	
0.25000	3.561442	660.194733	7.387552
579.177106	14.346858	708.436559	
0.50000	3.561442	671.407526	7.387552
579.359262	12.110787	481.242997	
0.75000	3.561442	682.857525	7.387552
587.008543	10.007842	245.393982	
1.00000	3.561442	694.508513	7.387552
595.558884	8.337113	0.461760	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1865

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

```
 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   -1.570651  -82.820788   -5.635585
-528.372586  -9.681163  -93.188872
 0.25000   -1.570651  -77.821012   -5.635585
-528.518334  -7.814203  -69.845109
 0.50000   -1.570651  -72.855442   -5.635585
-528.664060  -6.069763  -46.510245
 0.75000   -1.570651  -67.982962   -5.635585
-528.809786  -4.660403  -23.175967
 1.00000   -1.570651  -64.197068   -5.635585
-528.945169  -3.679888  -0.829631

 COMB  DESIGN ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   3.561442  649.257667   7.387552
579.001478  16.644415  927.082142
 0.25000   3.561442  660.194733   7.387552
579.177106  14.346858  708.436559
 0.50000   3.561442  671.407526   7.387552
579.359262  12.110787  481.242997
 0.75000   3.561442  682.857525   7.387552
587.008543  10.007842  245.393982
 1.00000   3.561442  694.508513   7.387552
595.558884   8.337113   0.461760

 COMB  DESIGN ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   -1.570651  -82.820788   -5.635585
-528.372586  -9.681163  -93.188872
 0.25000   -1.570651  -77.821012   -5.635585
-528.518334  -7.814203  -69.845109
 0.50000   -1.570651  -72.855442   -5.635585
-528.664060  -6.069763  -46.510245
 0.75000   -1.570651  -67.982962   -5.635585
-528.809786  -4.660403  -23.175967
 1.00000   -1.570651  -64.197068   -5.635585
-528.945169  -3.679888  -0.829631

 ELEM      160 ================== LENGTH
=     2.976955

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   72.102465  12.537499    0.393361
 0.002376  0.487508   24.537342
 0.57752   72.102465  12.537499    0.393361
 0.002376  0.322599   19.300324
 0.71834   72.102465  12.537499    0.393361
 0.002376  0.157693   14.099166
 0.85917   72.102465  12.537499    0.393361
 0.002376  0.050691   8.960632
 1.00000   72.102465  12.537499    0.393361
 0.002376  0.306076   4.446761

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -9.710366 -126.465289   -0.618453
-3.04E-05  -0.731760 -233.880024
 0.57752   -9.710366 -126.465289   -0.618453
-3.04E-05  -0.472829 -180.895119
 0.71834   -9.710366 -126.465289   -0.618453
-3.04E-05  -0.214194 -127.922638
 0.85917   -9.710366 -126.465289   -0.618453
-3.04E-05  -0.008186 -75.157129
 1.00000   -9.710366 -126.465289   -0.618453
-3.04E-05  -0.172953  -22.628654

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   75.705524  25.042776    0.528707
 0.005203  0.638753   61.441670
 0.57752   75.705524  25.042776    0.528707
 0.005203  0.420325   53.279116
 0.71834   75.705524  25.042776    0.528707
 0.005203  0.205071   58.098164
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1866

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T         M2         M3
 0.85917   75.705524  25.042776    0.528707
 0.005203  0.070864   69.889780
 1.00000   75.705524  25.042776    0.528707
 0.005203  0.446228   84.470909

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -74.442148 -193.225919   -0.956771
-0.009143  -1.160094  -279.796542
 0.57752   -74.442148 -193.225919   -0.956771
-0.009143  -0.759257  -204.656513
 0.71834   -74.442148 -193.225919   -0.956771
-0.009143  -0.358608  -141.109235
 0.85917   -74.442148 -193.225919   -0.956771
-0.009143  -0.046145  -80.252070
 1.00000   -74.442148 -193.225919   -0.956771
-0.009143  -0.254987  -22.460323

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   69.256801  73.090284    0.620570
 0.004095  0.759870   146.111852
 0.57752   69.256801  73.090284    0.620570
 0.004095  0.501912   116.983195
 0.71834   69.256801  73.090284    0.620570
 0.004095  0.246041   96.651768
 0.85917   69.256801  73.090284    0.620570
 0.004095  0.060073   80.897832
 1.00000   69.256801  73.090284    0.620570
 0.004095  0.535950   65.536316

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -61.377386 -158.597312   -1.186526
-0.007294  -1.455471  -245.044683
 0.57752   -61.377386 -158.597312   -1.186526
-0.007294  -0.958296  -182.109631
 0.71834   -61.377386 -158.597312   -1.186526
-0.007294  -0.461409  -127.854144
 0.85917   -61.377386 -158.597312   -1.186526
-0.007294  -0.049797  -73.717336
 1.00000   -61.377386 -158.597312   -1.186526
-0.007294  -0.281448  -20.715100

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   90.845225  111.910616   0.742830
 0.003406  0.916266   205.701498
 0.57752   90.845225  111.910616   0.742830
 0.003406  0.606676   160.482888
 0.71834   90.845225  111.910616   0.742830
 0.003406  0.298815   122.737270
 0.85917   90.845225  111.910616   0.742830
 0.003406  0.063348   89.275881
 1.00000   90.845225  111.910616   0.742830
 0.003406  0.548457   58.305212

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -57.901850 -136.756073   -1.237510
-0.006869  -1.528221 -213.116627
 0.57752   -57.901850 -136.756073   -1.237510
-0.006869  -1.009623 -159.066265
 0.71834   -57.901850 -136.756073   -1.237510
-0.006869  -0.491267 -111.556730
 0.85917   -57.901850 -136.756073   -1.237510
-0.006869  -0.044259  -65.402710
 1.00000   -57.901850 -136.756073   -1.237510
-0.006869  -0.329949  -33.666967

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   3.143516   25.139313    0.124638
 0.002243  0.141346   64.293053
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1867

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T         M2         M3
 0.57752   3.143516   25.139313    0.124638
 0.002243  0.091802   55.775935
 0.71834   3.143516   25.139313    0.124638
 0.002243  0.044895   58.057810
 0.85917   3.143516   25.139313    0.124638
 0.002243  0.016847   66.202534
 1.00000   3.143516   25.139313    0.124638
 0.002243  0.152793   77.780774

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -74.899055  -53.795683   -0.374598
-0.008136  -0.476476  -31.452917
 0.57752   -74.899055  -53.795683   -0.374598
-0.008136  -0.319480  -13.741246
 0.71834   -74.899055  -53.795683   -0.374598
-0.008136  -0.162760   -5.716137
 0.85917   -74.899055  -53.795683   -0.374598
-0.008136  -0.047255   -2.291355
 1.00000   -74.899055  -53.795683   -0.374598
-0.008136  -0.068574   -1.828845

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   29.659680  93.903831    0.337111
 0.002013  0.408614   177.044637
 0.57752   29.659680  93.903831    0.337111
 0.002013  0.269811   139.885377
 0.71834   29.659680  93.903831    0.337111
 0.002013  0.133397   112.911698
 0.85917   29.659680  93.903831    0.337111
 0.002013  0.027027   91.505006
 1.00000   29.659680  93.903831    0.337111
 0.002013  0.298793   71.773364

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -62.155457  -39.869158   -0.724920
-0.008719  -0.917722  -23.918893
 0.57752   -62.155457  -39.869158   -0.724920
-0.008719  -0.613925  -10.013023
 0.71834   -62.155457  -39.869158   -0.724920
-0.008719  -0.310416   -6.825478
 0.85917   -62.155457  -39.869158   -0.724920
-0.008719  -0.048495   -5.495730
 1.00000   -62.155457  -39.869158   -0.724920
-0.008719  -0.157432  -14.945165

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   58.691795  103.746885   0.562866
 0.002806  0.691550   200.777029
 0.57752   58.691795  103.746885   0.562866
 0.002806  0.457366   158.940314
 0.71834   58.691795  103.746885   0.562866
 0.002806  0.224809   124.340107
 0.85917   58.691795  103.746885   0.562866
 0.002806  0.041080   93.731531
 1.00000   58.691795  103.746885   0.562866
 0.002806  0.472176   68.940743

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -73.688281 -104.586251   -1.088231
-0.006525  -1.353594  -149.420792
 0.57752   -73.688281 -104.586251   -1.088231
-0.006525  -0.897460  -108.803052
 0.71834   -73.688281 -104.586251   -1.088231
-0.006525  -0.441640   -74.470253
 0.85917   -73.688281 -104.586251   -1.088231
-0.006525  -0.051895   -42.131540
 1.00000   -73.688281 -104.586251   -1.088231
-0.006525  -0.252777   -20.396271
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1868

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   57.185497  128.859358   0.713104
 0.002344  0.882420   242.880977
 0.57752   57.185497  128.859358   0.713104
 0.002344  0.584960   190.214855
 0.71834   57.185497  128.859358   0.713104
 0.002344  0.288852   143.687595
 0.85917   57.185497  128.859358   0.713104
 0.002344  0.037866   100.615397
 1.00000   57.185497  128.859358   0.713104
 0.002344  0.486698   62.971234

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -71.969440  -93.140380   -1.142296
-0.006189  -1.429624  -135.617060
 0.57752   -71.969440  -93.140380   -1.142296
-0.006189  -0.950812   -99.276470
 0.71834   -71.969440  -93.140380   -1.142296
-0.006189  -0.472266   -68.284062
 0.85917   -71.969440  -93.140380   -1.142296
-0.006189  -0.048573   -38.585768
 1.00000   -71.969440  -93.140380   -1.142296
-0.006189  -0.313784   -21.206379

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   5.821255   58.498512    0.383356
 3.23E-06  0.481003   108.063561
 0.57752   5.821255   58.498512    0.383356
 3.23E-06  0.320289   83.619861
 0.71834   5.821255   58.498512    0.383356
 3.23E-06  0.159555   59.213090
 0.85917   5.821255   58.498512    0.383356
 3.23E-06  0.001870   34.888224
 1.00000   5.821255   58.498512    0.383356
 3.23E-06  0.143331   10.849538

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -22.081108  -9.992364   -0.347842
-0.001090  -0.448727  -18.599190
 0.57752   -22.081108  -9.992364   -0.347842
-0.001090  -0.302898  -14.418621
 0.71834   -22.081108  -9.992364   -0.347842
-0.001090  -0.157166  -10.250863
 0.85917   -22.081108  -9.992364   -0.347842
-0.001090  -0.012893   -6.226418
 1.00000   -22.081108  -9.992364   -0.347842
-0.001090  -0.161870   -2.820197

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   52.097856  123.175108   0.617786
 8.36E-05  0.774222   211.061084
 0.57752   52.097856  123.175108   0.617786
 8.36E-05  0.515330   160.527212
 0.71834   52.097856  123.175108   0.617786
 8.36E-05  0.256496   110.688680
 0.85917   52.097856  123.175108   0.617786
 8.36E-05  0.021161   61.774769
 1.00000   52.097856  123.175108   0.617786
 8.36E-05  0.267737   16.313069

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -27.717388  -15.228022   -0.655537
-0.002386  -0.836478  -26.504812
 0.57752   -27.717388  -15.228022   -0.655537
-0.002386  -0.561686  -20.310585
 0.71834   -27.717388  -15.228022   -0.655537
-0.002386  -0.286990  -14.493116
 0.85917   -27.717388  -15.228022   -0.655537
-0.002386  -0.012083  -11.548813
 1.00000   -27.717388  -15.228022   -0.655537
-0.002386  -0.261786  -25.620785
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1869

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   28.286241  142.204826   0.655263
 0.000133  0.820602   259.736136
 0.57752   28.286241  142.204826   0.655263
 0.000133  0.546068   200.667936
 0.71834   28.286241  142.204826   0.655263
 0.000133  0.271590   142.373498
 0.85917   28.286241  142.204826   0.655263
 0.000133  0.012141   84.792595
 1.00000   28.286241  142.204826   0.655263
 0.000133  0.370120   29.069758

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -47.159175  -14.946844   -0.908137
-0.003184  -1.157138  -25.910994
 0.57752   -47.159175  -14.946844   -0.908137
-0.003184  -0.776516  -19.942770
 0.71834   -47.159175  -14.946844   -0.908137
-0.003184  -0.396169  -14.569812
 0.85917   -47.159175  -14.946844   -0.908137
-0.003184  -0.036651  -10.296573
 1.00000   -47.159175  -14.946844   -0.908137
-0.003184  -0.278159  -14.112027

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   36.708040  139.768523   0.709497
 0.002046  0.877869   267.269194
 0.57752   36.708040  139.768523   0.709497
 0.002046  0.582193   211.467114
 0.71834   36.708040  139.768523   0.709497
 0.002046  0.288179   162.797778
 0.85917   36.708040  139.768523   0.709497
 0.002046  0.160215   118.685703
 1.00000   36.708040  139.768523   0.709497
 0.002046  0.449634   75.449575

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -90.467358  -71.521255   -1.077698
-0.007125  -1.361503  -90.429611
 0.57752   -90.467358  -71.521255   -1.077698
-0.007125  -0.909808  -63.692492
 0.71834   -90.467358  -71.521255   -1.077698
-0.007125  -0.457880  -45.078490
 0.85917   -90.467358  -71.521255   -1.077698
-0.007125  -0.057166  -24.426874
 1.00000   -90.467358  -71.521255   -1.077698
-0.007125  -0.312439  -14.201552

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   90.862116  16.837129    0.512556
 0.002593  0.633905   34.236737
 0.57752   90.862116  16.837129    0.512556
 0.002593  0.419094   27.249171
 0.71834   90.862116  16.837129    0.512556
 0.002593  0.204464   20.214940
 0.85917   90.862116  16.837129    0.512556
 0.002593  0.061068   13.228718
 1.00000   90.862116  16.837129    0.512556
 0.002593  0.464107   6.555978

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -14.881639  -149.407709   -0.967534
-2.23E-05  -1.158035  -280.450218
 0.57752   -14.881639  -149.407709   -0.967534
-2.23E-05  -0.752829  -217.851180
 0.71834   -14.881639  -149.407709   -0.967534
-2.23E-05  -0.347440  -155.257195
 0.85917   -14.881639  -149.407709   -0.967534
-2.23E-05  -0.010455  -92.834132
 1.00000   -14.881639  -149.407709   -0.967534
-2.23E-05  -0.225758  -30.577883
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1870

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   94.744288  33.585369    0.731147
 0.005644  0.884896   76.929428
 0.57752   94.744288  33.585369    0.731147
 0.005644  0.579213   64.640091
 0.71834   94.744288  33.585369    0.731147
 0.005644  0.282101   52.978480
 0.85917   94.744288  33.585369    0.731147
 0.005644  0.084149   73.298932
 1.00000   94.744288  33.585369    0.731147
 0.005644  0.645344   85.910068

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -72.984478 -221.356629   -1.405449
-0.009748  -1.712016  -329.750889
 0.57752   -72.984478 -221.356629   -1.405449
-0.009748  -1.123177  -240.866870
 0.71834   -72.984478 -221.356629   -1.405449
-0.009748  -0.534932  -168.537289
 0.85917   -72.984478 -221.356629   -1.405449
-0.009748  -0.041576  -98.141419
 1.00000   -72.984478 -221.356629   -1.405449
-0.009748  -0.342081  -30.632138

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   90.233984  86.663943    0.896488
 0.004539  1.101810   171.893092
 0.57752   90.233984  86.663943    0.896488
 0.004539  0.726417   136.806917
 0.71834   90.233984  86.663943    0.896488
 0.004539  0.356102   109.174393
 0.85917   90.233984  86.663943    0.896488
 0.004539  0.073527   89.880785
 1.00000   90.233984  86.663943    0.896488
 0.004539  0.783562   71.576407

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -67.807150 -185.725108   -1.766918
-0.007924  -2.179570  -291.857504
 0.57752   -67.807150 -185.725108   -1.766918
-0.007924  -1.438954  -216.733696
 0.71834   -67.807150 -185.725108   -1.766918
-0.007924  -0.699215  -153.344946
 0.85917   -67.807150 -185.725108   -1.766918
-0.007924  -0.045502  -90.396719
 1.00000   -67.807150 -185.725108   -1.766918
-0.007924  -0.400179  -29.769162

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   100.552843  130.916688   1.062733
 0.003776  1.314874   240.029189
 0.57752   100.552843  130.916688   1.062733
 0.003776  0.869824   186.299252
 0.71834   100.552843  130.916688   1.062733
 0.003776  0.428379   138.799442
 0.85917   100.552843  130.916688   1.062733
 0.003776  0.071904   98.640885
 1.00000   100.552843  130.916688   1.062733
 0.003776  0.848251   63.223720

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -64.155921 -160.264161   -1.937429
-0.007399  -2.400842  -254.114319
 0.57752   -64.155921 -160.264161   -1.937429
-0.007399  -1.588756  -189.210796
 0.71834   -64.155921 -160.264161   -1.937429
-0.007399  -0.777353  -134.064254
 0.85917   -64.155921 -160.264161   -1.937429
-0.007399  -0.040737  -80.707488
 1.00000   -64.155921 -160.264161   -1.937429
-0.007399  -0.465364  -37.062538
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1871

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   4.338338   27.353978    0.203804
 0.002047  0.240584   67.525672
 0.57752   4.338338   27.353978    0.203804
 0.002047  0.155631   57.406304
 0.71834   4.338338   27.353978    0.203804
 0.002047  0.076302   54.837097
 0.85917   4.338338   27.353978    0.203804
 0.002047  0.160215   60.590740
 1.00000   4.338338   27.353978    0.203804
 0.002047  0.184153   69.820107

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -66.122887  -54.061838   -0.460674
-0.007253  -0.590616  -35.797764
 0.57752   -66.122887  -54.061838   -0.460674
-0.007253  -0.397849  -15.953148
 0.71834   -66.122887  -54.061838   -0.460674
-0.007253  -0.206071  -7.786905
 0.85917   -66.122887  -54.061838   -0.460674
-0.007253  -0.038154  -3.309632
 1.00000   -66.122887  -54.061838   -0.460674
-0.007253  -0.109605  -2.387674

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   26.278464  105.215127   0.535986
 0.001881  0.659534   197.074319
 0.57752   26.278464  105.215127   0.535986
 0.001881  0.435224   154.237827
 0.71834   26.278464  105.215127   0.535986
 0.001881  0.215423   118.484899
 0.85917   26.278464  105.215127   0.535986
 0.001881  0.024941   90.946348
 1.00000   26.278464  105.215127   0.535986
 0.001881  0.433034   67.053745

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -59.725830  -41.082519   -1.059020
-0.008097  -1.343715  -27.485115
 0.57752   -59.725830  -41.082519   -1.059020
-0.008097  -0.899977  -12.839422
 0.71834   -59.725830  -41.082519   -1.059020
-0.008097  -0.457135  -9.253729
 0.85917   -59.725830  -41.082519   -1.059020
-0.008097  -0.039400  -7.812874
 1.00000   -59.725830  -41.082519   -1.059020
-0.008097  -0.237407  -12.939675

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   61.397907  121.494194   0.822204
 0.002640  1.015197   235.463733
 0.57752   61.397907  121.494194   0.822204
 0.002640  0.670902   185.400460
 0.71834   61.397907  121.494194   0.822204
 0.002640  0.329419   139.992599
 0.85917   61.397907  121.494194   0.822204
 0.002640  0.044597   100.094448
 1.00000   61.397907  121.494194   0.822204
 0.002640  0.692797   64.172648

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.43669   -78.014561 -113.807823   -1.616204
-0.005697  -2.017923  -171.833231
 0.57752   -78.014561 -113.807823   -1.616204
-0.005697  -1.340048  -125.936400
 0.71834   -78.014561 -113.807823   -1.616204
-0.005697  -0.663491  -87.267137
 0.85917   -78.014561 -113.807823   -1.616204
```

-0.005697 -0.048913 -50.545461
1.00000 -78.014561 -113.807823 -1.616204
-0.005697 -0.361851 -20.861758
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	59.735879	151.818408	1.035414
0.002208	1.286261	285.373513	
0.57752	59.735879	151.818408	1.035414
0.002208	0.852445	222.460342	
0.71834	59.735879	151.818408	1.035414
0.002208	0.420458	163.487920	
0.85917	59.735879	151.818408	1.035414
0.002208	0.040064	109.184487	
1.00000	59.735879	151.818408	1.035414
0.002208	0.770330	59.203029	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-76.979171	-102.073733	-1.819874
-0.005509	-2.281594	-157.067509	
0.57752	-76.979171	-102.073733	-1.819874
-0.005509	-1.518283	-115.748291	
0.71834	-76.979171	-102.073733	-1.819874
-0.005509	-0.756234	-80.509954	
0.85917	-76.979171	-102.073733	-1.819874
-0.005509	-0.046623	-46.584128	
1.00000	-76.979171	-102.073733	-1.819874
-0.005509	-0.447944	-21.483635	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	7.699977	67.389416	0.553779
2.08E-06	0.695666	125.240107	
0.57752	7.699977	67.389416	0.553779
2.08E-06	0.463671	97.055814	
0.71834	7.699977	67.389416	0.553779
2.08E-06	0.230819	68.919404	
0.85917	7.699977	67.389416	0.553779
2.08E-06	0.002139	40.886693	
1.00000	7.699977	67.389416	0.553779
2.08E-06	0.288484	13.169240	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-28.348161	-12.551096	-0.713601
-0.001096	-0.910666	-23.445702	
0.57752	-28.348161	-12.551096	-0.713601
-0.001096	-0.611147	-18.221710	
0.71834	-28.348161	-12.551096	-0.713601
-0.001096	-0.312485	-13.043816	
0.85917	-28.348161	-12.551096	-0.713601
-0.001096	-0.015259	-8.056436	
1.00000	-28.348161	-12.551096	-0.713601
-0.001096	-0.232231	-3.514760	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	46.601018	142.680777	0.895347
5.66E-05	1.124307	246.704989	
0.57752	46.601018	142.680777	0.895347
5.86E-05	0.749060	187.121473	
0.71834	46.601018	142.680777	0.895347
5.86E-05	0.372988	127.885099	
0.85917	46.601018	142.680777	0.895347
5.86E-05	0.019673	69.705418	
1.00000	46.601018	142.680777	0.895347
5.86E-05	0.523388	17.340432	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-33.972955	-18.154401	-1.268950
-0.002372	-1.605861	-33.203139	
0.57752	-33.972955	-18.154401	-1.268950
-0.002372	-1.073951	-25.705995	
0.71834	-33.972955	-18.154401	-1.268950
-0.002372	-0.541858	-18.611372	
0.85917	-33.972955	-18.154401	-1.268950
-0.002372	-0.009766	-15.189652	
1.00000	-33.972955	-18.154401	-1.268950
-0.002372	-0.375359	-22.272284	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	30.952392	160.482234	0.973393
5.00E-06	1.221019	294.611299	
0.57752	30.952392	160.482234	0.973393
5.00E-06	0.813491	227.454376	
0.71834	30.952392	160.482234	0.973393
5.00E-06	0.404447	160.376557	
0.85917	30.952392	160.482234	0.973393
5.00E-06	0.011851	93.782613	
1.00000	30.952392	160.482234	0.973393
5.00E-06	0.630740	30.451340	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-56.081304	-18.441790	-1.553215
-0.002667	-1.975777	-34.044324	
0.57752	-56.081304	-18.441790	-1.553215
-0.002667	-1.324986	-26.346182	
0.71834	-56.081304	-18.441790	-1.553215
-0.002667	-0.674419	-19.031959	
0.85917	-56.081304	-18.441790	-1.553215
-0.002667	-0.037538	-14.164769	
1.00000	-56.081304	-18.441790	-1.553215
-0.002667	-0.408595	-14.889923	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	41.377715	161.446237	1.045626
0.001799	1.299857	308.330987	
0.57752	41.377715	161.446237	1.045626
0.001799	0.862004	241.473903	
0.71834	41.377715	161.446237	1.045626
0.001799	0.425994	178.886215	
0.85917	41.377715	161.446237	1.045626
0.001799	0.021946	121.463732	
1.00000	41.377715	161.446237	1.045626
0.001799	0.726046	68.197486	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-91.887662	-76.626743	-1.752604
-0.006006	-2.214225	-105.628261	
0.57752	-91.887662	-76.626743	-1.752604
-0.006006	-1.479696	-75.142009	
0.71834	-91.887662	-76.626743	-1.752604
-0.006006	-0.745943	-51.621270	
0.85917	-91.887662	-76.626743	-1.752604
-0.006006	-0.054507	-30.334057	
1.00000	-91.887662	-76.626743	-1.752604
-0.006006	-0.456862	-15.975553	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	90.845225	142.204826	0.742830
0.005203	0.916266	267.269194	
0.57752	90.845225	142.204826	0.742830
0.005203	0.606676	211.467114	
0.71834	90.845225	142.204826	0.742830
0.005203	0.298815	162.797778	
0.85917	90.845225	142.204826	0.742830
0.005203	0.070864	118.080703	
1.00000	90.845225	142.204826	0.742830
0.005203	0.548457	84.470909	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-90.467358	-193.225919	-1.237510
-0.009143	-1.528221	-279.796542	
0.57752	-90.467358	-193.225919	-1.237510
-0.009143	-1.009623	-204.656513	
0.71834	-90.467358	-193.225919	-1.237510
-0.009143	-0.491267	-141.109235	
0.85917	-90.467358	-193.225919	-1.237510
-0.009143	-0.057166	-80.252070	
1.00000	-90.467358	-193.225919	-1.237510
-0.009143	-0.322949	-33.866967	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	100.552843	161.446237	1.062733
0.005644	1.314874	308.330987	
0.57752	100.552843	161.446237	1.062733
0.005644	0.869824	241.473903	
0.71834	100.552843	161.446237	1.062733
0.005644	0.428379	178.886215	
0.85917	100.552843	161.446237	1.062733
0.005644	0.084149	121.463732	
1.00000	100.552843	161.446237	1.062733
0.005644	0.848251	85.910068	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-91.887662	-221.356629	-1.937429
-0.009748	-2.400842	-329.750889	
0.57752	-91.887662	-221.356629	-1.937429
-0.009748	-1.588756	-240.866870	
0.71834	-91.887662	-221.356629	-1.937429
-0.009748	-0.776353	-168.537289	
0.85917	-91.887662	-221.356629	-1.937429
-0.009748	-0.054507	-98.141419	
1.00000	-91.887662	-221.356629	-1.937429
-0.009748	-0.465364	-37.062538	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	100.552843	161.446237	1.062733
0.005644	1.314874	308.330987	
0.57752	100.552843	161.446237	1.062733
0.005644	0.869824	241.473903	
0.71834	100.552843	161.446237	1.062733
0.005644	0.428379	178.886215	
0.85917	100.552843	161.446237	1.062733
0.005644	0.084149	121.463732	
1.00000	100.552843	161.446237	1.062733
0.005644	0.848251	85.910068	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-91.887662	-221.356629	-1.937429
-0.009748	-2.400842	-329.750889	
0.57752	-91.887662	-221.356629	-1.937429
-0.009748	-1.588756	-240.866870	
0.71834	-91.887662	-221.356629	-1.937429
-0.009748	-0.777353	-168.537289	
0.85917	-91.887662	-221.356629	-1.937429
-0.009748	-0.057166	-98.141419	
1.00000	-91.887662	-221.356629	-1.937429
-0.009748	-0.465364	-37.062538	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	100.552843	161.446237	1.062733
0.005644	1.314874	308.330987	
0.57752	100.552843	161.446237	1.062733
0.005644	0.869824	241.473903	
0.71834	100.552843	161.446237	1.062733
0.005644	0.428379	178.886215	
0.85917	100.552843	161.446237	1.062733
0.005644	0.084149	121.463732	
1.00000	100.552843	161.446237	1.062733
0.005644	0.848251	85.910068	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-91.887662	-221.356629	-1.937429
-0.009748	-2.400842	-329.750889	
0.57752	-91.887662	-221.356629	-1.937429
-0.009748	-1.588756	-240.866870	
0.71834	-91.887662	-221.356629	-1.937429
-0.009748	-0.777353	-168.537289	
0.85917	-91.887662	-221.356629	-1.937429
-0.009748	-0.057166	-98.141419	
1.00000	-91.887662	-221.356629	-1.937429
-0.009748	-0.465364	-37.062538	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 161 ========== LENGTH = 2.977880

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	71.945864	12.503215	0.361927
0.002310	0.153429	4.446941	
0.14086	71.945864	12.503215	0.361927
0.002310	0.051211	31.276677	
0.28172	71.945864	12.503215	0.361927
0.002310	0.137844	83.897956	
0.42259	71.945864	12.503215	0.361927
0.002310	0.278329	136.544487	
0.56345	71.945864	12.503215	0.361927
0.002310	0.418861	189.197300	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.588991	-125.563601	-0.335075
-7.10E-06	-0.143549	-22.631091	
0.14086	-9.588991	-125.563601	-0.335075
-7.10E-06	-0.003131	-2.377861	
0.28172	-9.588991	-125.563601	-0.335075
-7.10E-06	-0.150204	-7.371969	
0.42259	-9.588991	-125.563601	-0.335075
-7.10E-06	-0.302022	-12.456124	
0.56345	-9.588991	-125.563601	-0.335075
-7.10E-06	-0.453839	-17.572518	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	75.507460	82.493154	0.464823
0.011897	0.196292	84.471132	
0.14086	75.507460	82.493154	0.464823
0.011897	0.051001	93.918506	
0.28172	75.507460	82.493154	0.464823
0.011897	0.292274	128.026974	
0.42259	75.507460	82.493154	0.464823
0.011897	0.572466	185.603868	
0.56345	75.507460	82.493154	0.464823
0.011897	0.886732	249.145489	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-80.898666	-151.844264	-0.753684
-0.002526	-0.385515	-22.462941	
0.14086	-80.898666	-151.844264	-0.753684
-0.002526	-0.071498	-4.415819	
0.28172	-80.898666	-151.844264	-0.753684
-0.002526	-0.193530	-11.942061	
0.42259	-80.898666	-151.844264	-0.753684
-0.002526	-0.388569	-31.316248	
0.56345	-80.898666	-151.844264	-0.753684
-0.002526	-0.583545	-63.553359	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	69.141223	112.910416	0.579619
0.008675	0.247227	65.537628	
0.14086	69.141223	112.910416	0.579619
0.008675	0.048116	65.394885	
0.28172	69.141223	112.910416	0.579619
0.008675	0.409516	99.170243	
0.42259	69.141223	112.910416	0.579619
0.008675	0.810537	149.486527	
0.56345	69.141223	112.910416	0.579619
0.008675	1.240019	203.851521	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-65.933829	-130.249086	-1.026898
-0.002331	-0.488713	-20.717456	
0.14086	-65.933829	-130.249086	-1.026898
-0.002331	-0.065008	-13.780024	
0.28172	-65.933829	-130.249086	-1.026898
-0.002331	-0.238997	-43.750779	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42259	-65.933829	-130.249086	-1.026898
-0.002331	-0.482100	-81.704528	
0.56345	-65.933829	-130.249086	-1.026898
-0.002331	-0.725215	-127.639415	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	90.712550	145.240923	0.721043
0.007208	0.310042	58.306998	
0.14086	90.712550	145.240923	0.721043
0.007208	0.054141	55.410738	
0.28172	90.712550	145.240923	0.721043
0.007208	0.454218	85.546715	
0.42259	90.712550	145.240923	0.721043
0.007208	0.908073	129.472935	
0.56345	90.712550	145.240923	0.721043
0.007208	1.385625	176.758954	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-61.791920	-113.289162	-1.141033
-0.002973	-0.302712	-13.306406	
0.14086	-61.791920	-113.289162	-1.141033
-0.002973	-0.061427	-44.752016	
0.28172	-61.791920	-113.289162	-1.141033
-0.002973	-0.294817	-88.833520	
0.42259	-61.791920	-113.289162	-1.141033
-0.002973	-0.597257	-141.212867	
0.56345	-61.791920	-113.289162	-1.141033
-0.002973	-0.899701	-200.471730	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.160277	73.663433	0.103208
0.007656	0.043608	77.780985	
0.14086	3.160277	73.663433	0.103208
0.007656	0.001450	58.899289	
0.28172	3.160277	73.663433	0.103208
0.007656	0.187696	40.410444	
0.42259	3.160277	73.663433	0.103208
0.007656	0.396667	42.157876	
0.56345	3.160277	73.663433	0.103208
0.007656	0.621922	48.846652	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-80.469444	-20.120938	-0.541838
-0.002196	-0.293663	-1.828858	
0.14086	-80.469444	-20.120938	-0.541838
-0.002196	-0.072741	-1.435315	
0.28172	-80.469444	-20.120938	-0.541838
-0.002196	-0.042281	-6.901630	
0.42259	-80.469444	-20.120938	-0.541838
-0.002196	-0.086193	-26.027252	
0.56345	-80.469444	-20.120938	-0.541838
-0.002196	-0.129472	-55.067792	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.709208	139.708858	0.333277
0.007126	0.144306	71.774898	
0.14086	29.709208	139.708858	0.333277
0.007126	0.014786	36.520525	
0.28172	29.709208	139.708858	0.333277
0.007126	0.338492	16.228959	
0.42259	29.709208	139.708858	0.333277
0.007126	0.702283	14.847092	
0.56345	29.709208	139.708858	0.333277
0.007126	1.080813	18.094236	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-67.558871	-8.490749	-0.905958
-0.003148	-0.445902	-14.944851	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14086	-67.558871	-8.490749	-0.905958
-0.003148	-0.074195	-36.035992	
0.28172	-67.558871	-8.490749	-0.905958
-0.003148	-0.135229	-74.506948	
0.42259	-67.558871	-8.490749	-0.905958
-0.003148	-0.275001	-122.059658	
0.56345	-67.558871	-8.490749	-0.905958
-0.003148	-0.414784	-178.725566	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	58.599106	136.353847	0.538700
0.006757	0.230911	68.941491	
0.14086	58.599106	136.353847	0.538700
0.006757	0.031337	53.797010	
0.28172	58.599106	136.353847	0.538700
0.006757	0.428847	70.784853	
0.42259	58.599106	136.353847	0.538700
0.006757	0.863581	101.531201	
0.56345	58.599106	136.353847	0.538700
0.006757	1.308792	135.583114	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-77.637142	-81.758225	-1.064066
-0.002572	-0.482116	-20.397094	
0.14086	-77.637142	-81.758225	-1.064066
-0.002572	-0.070599	-33.805348	
0.28172	-77.637142	-81.758225	-1.064066
-0.002572	-0.220920	-72.871749	
0.42259	-77.637142	-81.758225	-1.064066
-0.002572	-0.446864	-122.185442	
0.56345	-77.637142	-81.758225	-1.064066
-0.002572	-0.672836	-177.947795	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	57.077314	156.431196	0.707057
0.005653	0.305379	62.972633	
0.14086	57.077314	156.431196	0.707057
0.005653	0.029028	46.258768	
0.28172	57.077314	156.431196	0.707057
0.005653	0.473735	62.356400	
0.42259	57.077314	156.431196	0.707057
0.005653	0.962161	90.350477	
0.56345	57.077314	156.431196	0.707057
0.005653	1.459386	121.165800	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-75.397006	-74.078715	-1.187583
-0.003158	-0.537806	-21.206730	
0.14086	-75.397006	-74.078715	-1.187583
-0.003158	-0.068541	-42.619769	
0.28172	-75.397006	-74.078715	-1.187583
-0.003158	-0.287706	-91.776470	
0.42259	-75.397006	-74.078715	-1.187583
-0.003158	-0.584281	-150.531334	
0.56345	-75.397006	-74.078715	-1.187583
-0.003158	-0.880872	-214.856937	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.930583	58.906633	0.406043
1.06E-05	0.177769	10.850813	
0.14086	5.930583	58.906633	0.406043
1.06E-05	0.008104	3.253789	
0.28172	5.930583	58.906633	0.406043
1.06E-05	0.182539	6.533861	
0.42259	5.930583	58.906633	0.406043
1.06E-05	0.383491	10.737115	
0.56345	5.930583	58.906633	0.406043
1.06E-05	0.584462	14.940551	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.276087	-10.040727	-0.479113
-0.001571	-0.219518	-2.820378	
0.14086	-22.276087	-10.040727	-0.479113
-0.001571	-0.018713	-15.403169	
0.28172	-22.276087	-10.040727	-0.479113
-0.001571	-0.156273	-39.985101	
0.42259	-22.276087	-10.040727	-0.479113
-0.001571	-0.333193	-64.565224	
0.56345	-22.276087	-10.040727	-0.479113
-0.001571	-0.503515	-89.230860	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	52.185398	125.730849	0.651537
0.000295	0.284835	16.315022	
0.14086	52.185398	125.730849	0.651537
0.000295	0.029101	4.649205	
0.28172	52.185398	125.730849	0.651537
0.000295	0.316066	9.401299	
0.42259	52.185398	125.730849	0.651537
0.000295	0.656531	15.103689	
0.56345	52.185398	125.730849	0.651537
0.000295	0.997591	21.007527	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.247498	-14.090370	-0.813218
-0.002856	-0.367078	-25.620383	
0.14086	-28.247498	-14.090370	-0.813218
-0.002856	-0.026087	-64.757013	
0.28172	-28.247498	-14.090370	-0.813218
-0.002856	-0.261781	-115.574640	
0.42259	-28.247498	-14.090370	-0.813218
-0.002856	-0.535092	-167.132175	
0.56345	-28.247498	-14.090370	-0.813218
-0.002856	-0.808400	-219.131764	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	28.451132	146.475706	0.691938
0.000469	0.302214	29.072507	
0.14086	28.451132	146.475706	0.691938
0.000469	0.020031	5.929765	
0.28172	28.451132	146.475706	0.691938
0.000469	0.438995	9.771900	
0.42259	28.451132	146.475706	0.691938
0.000469	0.912906	14.881736	
0.56345	28.451132	146.475706	0.691938
0.000469	1.388031	20.296676	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-47.943283	-12.967707	-1.133138
-0.002806	-0.515513	-14.111967	
0.14086	-47.943283	-12.967707	-1.133138
-0.002806	-0.047798	-47.558805	
0.28172	-47.943283	-12.967707	-1.133138
-0.002806	-0.276337	-106.980669	
0.42259	-47.943283	-12.967707	-1.133138

```
-0.002806   -0.568486 -167.351502
 0.56345   -47.943283   -12.967707    -1.133138
-0.002806   -0.858720 -228.398982

COMB DB-G3-4 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   36.767294   172.183378     0.713592
 0.005909    0.309380    75.451524
 0.14086   36.767294   172.183378     0.713592
 0.005909    0.021834    43.841903
 0.28172   36.767294   172.183378     0.713592
 0.005909    0.486784    46.756685
 0.42259   36.767294   172.183378     0.713592
 0.005909    1.002443    63.755104
 0.56345   36.767294   172.183378     0.713592
 0.005909    1.528432    84.073871
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD            >
                                    1879

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -94.482453   -49.296246    -1.256446
-0.003696   -0.587975   -14.201949
 0.14086   -94.482453   -49.296246    -1.256446
-0.003696   -0.080002   -41.046327
 0.28172   -94.482453   -49.296246    -1.256446
-0.003696   -0.289262   -95.887900
 0.42259   -94.482453   -49.296246    -1.256446
-0.003696   -0.588557   -10.298741
 0.56345   -94.482453   -49.296246    -1.256446
-0.003696   -0.887876  -231.154697

COMB DL-G1-1 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    90.603977    16.724423     0.466608
 0.002427    0.204912     6.556269
 0.14086    90.603977    16.724423     0.466608
 0.002427    0.055767    35.241923
 0.28172    90.603977    16.724423     0.466608
 0.002427    0.247496    95.732318
 0.42259    90.603977    16.724423     0.466608
 0.002427    0.464351   156.948455
 0.56345    90.603977    16.724423     0.466608
 0.002427    0.682003   219.102635

COMB DL-G1-1 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -14.719529  -148.381338    -0.519843
-5.33E-06   -0.194725   -30.580675
 0.14086   -14.719529  -148.381338    -0.519843
-5.33E-06   -0.003984    -4.659373
 0.28172   -14.719529  -148.381338    -0.519843
-5.33E-06   -0.192305    -9.430199
 0.42259   -14.719529  -148.381338    -0.519843
-5.33E-06   -0.387072   -15.380272
 0.56345   -14.719529  -148.381338    -0.519843
-5.33E-06   -0.582318   -22.235018

COMB DL-G1-2 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    94.403038    89.942489     0.604812
 0.012662    0.257583    85.910307
 0.14086    94.403038    89.942489     0.604812
 0.012662    0.055879    96.353874
 0.28172    94.403038    89.942489     0.604812
 0.012662    0.456953   138.074852
 0.42259    94.403038    89.942489     0.604812
 0.012662    0.903832   203.329547
 0.56345    94.403038    89.942489     0.604812
 0.012662    1.367876   275.557620

COMB DL-G1-2 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -79.562069  -173.704975    -1.115907
-0.002620   -0.508633   -30.635208
 0.14086   -79.562069  -173.704975    -1.115907
-0.002620   -0.075929    -6.743744
 0.28172   -79.562069  -173.704975    -1.115907
-0.002620   -0.253350   -14.591885
 0.42259   -79.562069  -173.704975    -1.115907
-0.002620   -0.437054   -37.440654
 0.56345   -79.562069  -173.704975    -1.115907
-0.002620   -0.759925   -74.470620

COMB DL-G1-3 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    90.002027   127.320672     0.819546
 0.009520    0.351060    71.577768
 0.14086    90.002027   127.320672     0.819546
 0.009520    0.054513    72.225726
 0.28172    90.002027   127.320672     0.819546
 0.009520    0.642945   112.849400
 0.42259    90.002027   127.320672     0.819546
 0.009520    1.286389   170.526846
 0.56345    90.002027   127.320672     0.819546
 0.009520    1.943766   233.348929
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD            >
                                    1880

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -72.715443  -151.636018    -1.573837
-0.002379   -0.701161   -29.771891
 0.14086   -72.715443  -151.636018    -1.573837
-0.002379   -0.072947   -19.803456
 0.28172   -72.715443  -151.636018    -1.573837
-0.002379   -0.337630   -51.711704
 0.42259   -72.715443  -151.636018    -1.573837
-0.002379   -0.680629   -94.354786
 0.56345   -72.715443  -151.636018    -1.573837
-0.002379   -1.025071  -146.985245

COMB DL-G1-4 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   100.423800   164.960772     1.034747
 0.007911    0.452229    63.225505
 0.14086   100.423800   164.960772     1.034747
 0.007911    0.059851    61.527104
 0.28172   100.423800   164.960772     1.034747
 0.007911    0.733979    97.698096
 0.42259   100.423800   164.960772     1.034747
 0.007911    1.477863   148.064349
 0.56345   100.423800   164.960772     1.034747
 0.007911    2.233287   202.718898

COMB DL-G1-4 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -68.404594  -132.040286    -1.806835
-0.002993   -0.801462   -37.064484
 0.14086   -68.404594  -132.040286    -1.806835
-0.002993   -0.070753   -48.380233
 0.28172   -68.404594  -132.040286    -1.806835
-0.002993   -0.418392   -98.763562
 0.42259   -68.404594  -132.040286    -1.806835
-0.002993   -0.850640  -158.741973
 0.56345   -68.404594  -132.040286    -1.806835
-0.002993   -1.284619  -227.144040

COMB DL-G2-1 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    4.340078    67.311814     0.164287
 0.006902    0.069035    69.820186
 0.14086    4.340078    67.311814     0.164287
 0.006902    0.001756    52.701043
 0.28172    4.340078    67.311814     0.164287
 0.006902    0.247213    38.486299
 0.42259    4.340078    67.311814     0.164287
 0.006902    0.528778    42.547226
 0.56345    4.340078    67.311814     0.164287
 0.006902    0.820814    50.980489

COMB DL-G2-1 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -70.951824   -21.443500    -0.702148
-0.001924   -0.360054    -2.387694
 0.14086  -70.951824   -21.443500    -0.702148
-0.001924   -0.069286    -1.991393
 0.28172  -70.951824   -21.443500    -0.702148
-0.001924   -0.067910    -6.467804
 0.42259  -70.951824   -21.443500    -0.702148
-0.001924   -0.136469   -24.774498
 0.56345  -70.951824   -21.443500    -0.702148
-0.001924   -0.205246   -52.406922

COMB DL-G2-2 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   26.382195   143.941929     0.542189
 0.006586    0.241396    67.055198
 0.14086   26.382195   143.941929     0.542189
 0.006586    0.015629    33.420451
 0.28172   26.382195   143.941929     0.542189
 0.006586    0.499153    17.205382
 0.42259   26.382195   143.941929     0.542189
 0.006586    1.039756    16.550930
 0.56345   26.382195   143.941929     0.542189
 0.006586    1.590346    19.919823
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD            >
                                    1881

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -64.633798    -9.973216    -1.318985
-0.002776   -0.624080   -12.939426
 0.14086  -64.633798    -9.973216    -1.318985
-0.002776   -0.075202    -3.169009
 0.28172  -64.633798    -9.973216    -1.318985
-0.002776   -0.214435   -77.741600
 0.42259  -64.633798    -9.973216    -1.318985
-0.002776   -0.439351  -128.748642
 0.56345  -64.633798    -9.973216    -1.318985
-0.002776   -0.666470  -188.380465

COMB DL-G2-3 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   61.281596   146.832344     0.791071
 0.006112    0.344408    64.173970
 0.14086   61.281596   146.832344     0.791071
 0.006112    0.033399    54.462282
 0.28172   61.281596   146.832344     0.791071
 0.006112    0.657871    78.042650
 0.42259   61.281596   146.832344     0.791071
 0.006112    1.333961   112.617058
 0.56345   61.281596   146.832344     0.791071
 0.006112    2.016893   150.810841

COMB DL-G2-3 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -81.242793   -92.792698    -1.632635
-0.002163   -0.723058   -20.662918
 0.14086  -81.242793   -92.792698    -1.632635
-0.002163   -0.071102   -35.155964
 0.28172  -81.242793   -92.792698    -1.632635
-0.002163   -0.320262   -80.008298
 0.42259  -81.242793   -92.792698    -1.632635
-0.002163   -0.649729  -134.861504
 0.56345  -81.242793   -92.792698    -1.632635
-0.002163   -0.981356  -195.226705

COMB DL-G2-4 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   59.734801   173.381603     1.035909
 0.005120    0.451422    59.205001
 0.14086   59.734801   173.381603     1.035909
 0.005120    0.034596    47.117907
 0.28172   59.734801   173.381603     1.035909
 0.005120    0.764738    69.359960
 0.42259   59.734801   173.381603     1.035909
 0.005120    1.559479   101.038568
 0.56345   59.734801   173.381603     1.035909
 0.005120    2.359839   135.755624

COMB DL-G2-4 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -79.898144   -84.493635    -1.912049
-0.002864   -0.847978   -21.484546
 0.14086  -79.898144   -84.493635    -1.912049
-0.002864   -0.073250   -46.694670
 0.28172  -79.898144   -84.493635    -1.912049
-0.002864   -0.417113  -104.788306
 0.42259  -79.898144   -84.493635    -1.912049
-0.002864   -0.850824  -171.270739
 0.56345  -79.898144   -84.493635    -1.912049
-0.002864   -1.285444  -243.263163

COMB DL-G3-1 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    7.906368    67.833224     0.598296
 6.73E-06    0.263444    13.170712
 0.14086    7.906368    67.833224     0.598296
 6.73E-06    0.011051     5.208938
 0.28172    7.906368    67.833224     0.598296
 6.73E-06    0.345487     9.818964
 0.42259    7.906368    67.833224     0.598296
 6.73E-06    0.720392    14.467446
 0.56345    7.906368    67.833224     0.598296
 6.73E-06    1.094915    19.142771
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD            >
                                    1882

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -28.692345   -12.644817    -0.893675
-0.001624   -0.403186    -3.514975
 0.14086  -28.692345   -12.644817    -0.893675
-0.001624   -0.027898   -17.367442
 0.28172  -28.692345   -12.644817    -0.893675
-0.001624   -0.238492   -45.555356
 0.42259  -28.692345   -12.644817    -0.893675
-0.001624   -0.489439   -73.848446
 0.56345  -28.692345   -12.644817    -0.893675
-0.001624   -0.740235  -102.185099

COMB DL-G3-2 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   46.874285   144.648539     0.993009
 0.000205    0.450141    17.342647
 0.14086   46.874285   144.648539     0.993009
 0.000205    0.032742     5.602360
 0.28172   46.874285   144.648539     0.993009
 0.000205    0.573973    11.912582
 0.42259   46.874285   144.648539     0.993009
 0.000205    1.186271    18.805975
 0.56345   46.874285   144.648539     0.993009
 0.000205    1.798527    25.848023

COMB DL-G3-2 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -34.651246   -17.393198    -1.460487
-0.002887   -0.650302   -22.272026
 0.14086  -34.651246   -17.393198    -1.460487
-0.002887   -0.037678   -65.669938
 0.28172  -34.651246   -17.393198    -1.460487
-0.002887   -0.387464  -125.322177
 0.42259  -34.651246   -17.393198    -1.460487
-0.002887   -0.800323  -185.421462
 0.56345  -34.651246   -17.393198    -1.460487
-0.002887   -1.215235  -245.851876

COMB DL-G3-3 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   31.276471   161.841532     1.060647
 1.15E-05    0.471259    30.454266
 0.14086   31.276471   161.841532     1.060647
 1.15E-05    0.025352     7.831392
 0.28172   31.276471   161.841532     1.060647
 1.15E-05    0.733681    14.339229
 0.42259   31.276471   161.841532     1.060647
 1.15E-05    1.521551    21.254932
 0.56345   31.276471   161.841532     1.060647
 1.15E-05    2.309263    28.467716

COMB DL-G3-3 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -56.796438   -18.543903    -1.880079
-0.002627   -0.843694   -14.889890
 0.14086  -56.796438   -18.543903    -1.880079
-0.002627   -0.057851   -51.339247
 0.28172  -56.796438   -18.543903    -1.880079
-0.002627   -0.419807  -117.793304
 0.42259  -56.796438   -18.543903    -1.880079
-0.002627   -0.862276  -184.804300
 0.56345  -56.796438   -18.543903    -1.880079
-0.002627   -1.306764  -252.146332

COMB DL-G3-4 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   41.518601   184.835748     1.065920
 0.004877    0.468250    68.199749
 0.14086   41.518601   184.835748     1.065920
 0.004877    0.026504    43.660389
 0.28172   41.518601   184.835748     1.065920
 0.004877    0.790527    53.989316
 0.42259   41.518601   184.835748     1.065920
 0.004877    1.631507    74.498456
 0.56345   41.518601   184.835748     1.065920
 0.004877    2.478076    98.043785
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD            >
                                    1883

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -95.125253   -57.901212    -2.023069
-0.003301   -0.920406   -15.976032
 0.14086  -95.125253   -57.901212    -2.023069
-0.003301   -0.086120   -45.125925
 0.28172  -95.125253   -57.901212    -2.023069
-0.003301   -0.427093  -107.527052
 0.42259  -95.125253   -57.901212    -2.023069
-0.003301   -0.767065  -169.928163
 0.56345  -95.125253   -57.901212    -2.023069
-0.003301   -1.318877  -255.493762

COMB      DB -------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   90.712550   172.183378     0.721043
 0.011897    0.310042    64.471132
 0.14086   90.712550   172.183378     0.721043
 0.011897    0.054141    93.918506
 0.28172   90.712550   172.183378     0.721043
 0.011897    0.486784   128.026974
 0.42259   90.712550   172.183378     0.721043
 0.011897    1.002443   185.603868
 0.56345   90.712550   172.183378     0.721043
 0.011897    1.528432   249.145489

COMB      DB -------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -94.482453   -151.844264    -1.256446
-0.003696   -0.587975   -33.668406
 0.14086  -94.482453   -151.844264    -1.256446
-0.003696   -0.080002   -64.757013
 0.28172  -94.482453   -151.844264    -1.256446
-0.003696   -0.294817   -115.574640
 0.42259  -94.482453   -151.844264    -1.256446
-0.003696   -0.597257   -167.351502
 0.56345  -94.482453   -151.844264    -1.256446
-0.003696   -0.899701   -231.154697

COMB      DL -------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  100.423800   184.835748     1.065920
 0.012662    0.471259    85.910307
 0.14086  100.423800   184.835748     1.065920
 0.012662    0.059851    96.353874
 0.28172  100.423800   184.835748     1.065920
 0.012662    0.790527   138.074852
 0.42259  100.423800   184.835748     1.065920
 0.012662    1.631507   203.329547
 0.56345  100.423800   184.835748     1.065920
 0.012662    2.478076   275.557620

COMB      DL -------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -95.125253  -173.704975    -2.023069
-0.003301   -0.920406   -37.064484
 0.14086   -95.125253  -173.704975    -2.023069
-0.003301   -0.086120   -65.669938
 0.28172   -95.125253  -173.704975    -2.023069
-0.003301   -0.427093  -125.322177
 0.42259   -95.125253  -173.704975    -2.023069
-0.003301   -0.872163  -185.421462
 0.56345   -95.125253  -173.704975    -2.023069
-0.003301   -1.318877  -255.493762

COMB      CAR ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  100.423800   184.835748     1.065920
 0.012662    0.471259    85.910307
 0.14086  100.423800   184.835748     1.065920
 0.012662    0.059851    96.353874
 0.28172  100.423800   184.835748     1.065920
 0.012662    0.790527   138.074852
 0.42259  100.423800   184.835748     1.065920
 0.012662    1.631507   203.329547
 0.56345  100.423800   184.835748     1.065920
 0.012662    2.478076   275.557620
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD            >
                                    1884

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -95.125253  -173.704975    -2.023069
-0.003696   -0.920406   -37.064484
 0.14086   -95.125253  -173.704975    -2.023069
-0.003696   -0.086120   -65.669938
 0.28172   -95.125253  -173.704975    -2.023069
-0.003696   -0.427093  -125.322177
 0.42259   -95.125253  -173.704975    -2.023069
-0.003696   -0.872163  -185.421462
 0.56345   -95.125253  -173.704975    -2.023069
-0.003696   -1.318877  -255.493762

COMB      DESIGN ---------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  100.423800   184.835748     1.065920
 0.012662    0.471259    85.910307
 0.14086  100.423800   184.835748     1.065920
 0.012662    0.059851    96.353874
 0.28172  100.423800   184.835748     1.065920
 0.012662    0.790527   138.074852
 0.42259  100.423800   184.835748     1.065920
 0.012662    1.631507   203.329547
 0.56345  100.423800   184.835748     1.065920
 0.012662    2.478076   275.557620

COMB      DESIGN ---------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -95.125253  -173.704975    -2.023069
-0.003696   -0.920406   -37.064484
 0.14086   -95.125253  -173.704975    -2.023069
-0.003696   -0.086120   -65.669938
 0.28172   -95.125253  -173.704975    -2.023069
-0.003696   -0.427093  -125.322177
 0.42259   -95.125253  -173.704975    -2.023069
-0.003696   -0.872163  -185.421462
 0.56345   -95.125253  -173.704975    -2.023069
-0.003696   -1.318877  -255.493762

ELEM      162 ================== LENGTH
=    2.977211

COMB DB-G1-1 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.43665   26.234264    15.299884     0.493473
 0.001989    0.541944     8.042867
 0.57749   26.234264    15.299884     0.493473
 0.001989    0.335030     6.632731
 0.71833   26.234264    15.299884     0.493473
 0.001989    0.128107     5.266746
 0.85916   26.234264    15.299884     0.493473
 0.001989    0.097933     4.070762
 1.00000   26.234264    15.299884     0.493473
 0.001989    0.354046     3.449457

COMB DB-G1-1 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.43665   -3.938692   -21.992428    -0.611039
-1.89E-05   -0.670810   -53.423685
 0.57749   -3.938692   -21.992428    -0.611039
-1.89E-05   -0.414604   -44.469169
 0.71833   -3.938692   -21.992428    -0.611039
-1.89E-05   -0.158417   -35.881728
 0.85916   -3.938692   -21.992428    -0.611039
-1.89E-05   -0.078780   -28.293526
 1.00000   -3.938692   -21.992428    -0.611039
-1.89E-05   -0.285725   -28.458629

COMB DB-G1-2 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.43665   28.367441    38.500709     0.640701
 0.008892    0.703763    68.451439
 0.57749   28.367441    38.500709     0.640701
 0.008892    0.435114    56.050629
 0.71833   28.367441    38.500709     0.640701
 0.008892    0.166390    54.514323
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD            >
                                    1885

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.85916   28.367441    38.500709     0.640701
 0.008892    0.169338    77.378694
 1.00000   28.367441    38.500709     0.640701
 0.008892    0.623825   109.251074

COMB DB-G1-2 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.43665   -28.505980  -105.499679    -1.036701
-0.005588   -1.129117   -88.026124
 0.57749   -28.505980  -105.499679    -1.036701
-0.005588   -0.698398   -50.687956
 0.71833   -28.505980  -105.499679    -1.036701
-0.005588   -0.267754   -36.130906
 0.85916   -28.505980  -105.499679    -1.036701
-0.005588   -0.121038   -26.863529
 1.00000   -28.505980  -105.499679    -1.036701
-0.005588   -0.380912   -20.940419

COMB DB-G1-3 ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.43665   26.043256    42.151417     0.768715
 0.006520    0.843970    85.172134
 0.57749   26.043256    42.151417     0.768715
 0.006520    0.521661    70.430697
 0.71833   26.043256    42.151417     0.768715
 0.006520    0.199238    63.385559
 0.85916   26.043256    42.151417     0.768715
 0.006520    0.226916    73.299847
 1.00000   26.043256    42.151417     0.768715
 0.006520    0.784385    95.458219

COMB DB-G1-3 ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.43665   -21.135507  -104.279030    -1.330085
-0.004614   -1.456101  -102.322735
 0.57749   -21.135507  -104.279030    -1.330085
-0.004614   -0.901096   -64.022146
 0.71833   -21.135507  -104.279030    -1.330085
-0.004614   -0.346141   -40.958556
 0.85916   -21.135507  -104.279030    -1.330085
-0.004614   -0.135803   -24.396166
 1.00000   -21.135507  -104.279030    -1.330085
-0.004614   -0.452156   -18.534725
```

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	36.949552	44.904992	0.929291
0.005417	1.020723	82.506468	
0.57749	36.949552	44.904992	0.929291
0.005417	0.631082	67.371900	
0.71833	36.949552	44.904992	0.929291
0.005417	0.241320	56.657523	
0.85916	36.949552	44.904992	0.929291
0.005417	0.236134	64.116668	
1.00000	36.949552	44.904992	0.929291
0.005417	0.829128	80.210074	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-20.421887	-88.119894	-1.414730
-0.004515	-1.551716	-90.045112	
0.57749	-20.421887	-88.119894	-1.414730
-0.004515	-0.960764	-60.899333	
0.71833	-20.421887	-88.119894	-1.414730
-0.004515	-0.369968	-44.883419	
0.85916	-20.421887	-88.119894	-1.414730
-0.004515	-0.158824	-35.138578	
1.00000	-20.421887	-88.119894	-1.414730
-0.004515	-0.543561	-34.316993	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.326076	9.316510	0.135925
0.005618	0.149457	42.134252	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1886

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57749	1.326076	9.316510	0.135925
0.005618	0.092461	41.507443	
0.71833	1.326076	9.316510	0.135925
0.005618	0.035361	50.109753	
0.85916	1.326076	9.316510	0.135925
0.005618	0.095127	75.740800	
1.00000	1.326076	9.316510	0.135925
0.005618	0.294692	109.196537	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-27.823300	-90.979967	-0.476420
-0.005011	-0.516141	-47.078071	
0.57749	-27.823300	-90.979967	-0.476420
-0.005011	-0.319701	-15.152804	
0.71833	-27.823300	-90.979967	-0.476420
-0.005011	-0.123322	-3.134477	
0.85916	-27.823300	-90.979967	-0.476420
-0.005011	-0.037255	-1.363542	
1.00000	-27.823300	-90.979967	-0.476420
-0.005011	-0.086949	-1.236198	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	13.288922	21.294067	0.414025
0.005229	0.454497	62.849619	
0.57749	13.288922	21.294067	0.414025
0.005229	0.280912	58.140783	
0.71833	13.288922	21.294067	0.414025
0.005229	0.107192	61.951607	
0.85916	13.288922	21.294067	0.414025
0.005229	0.159527	81.283600	
1.00000	13.288922	21.294067	0.414025
0.005229	0.536706	106.712449	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-20.906062	-95.170551	-0.900172
-0.005593	-0.984036	-64.558445	
0.57749	-20.906062	-95.170551	-0.900172
-0.005593	-0.609691	-32.084204	
0.71833	-20.906062	-95.170551	-0.900172
-0.005593	-0.235424	-17.497845	
0.85916	-20.906062	-95.170551	-0.900172
-0.005593	-0.080988	-11.076456	
1.00000	-20.906062	-95.170551	-0.900172
-0.005593	-0.247727	-13.562594	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	24.511875	59.401191	0.700557
0.004857	0.769243	135.948253	
0.57749	24.511875	59.401191	0.700557
0.004857	0.475513	114.400665	
0.71833	24.511875	59.401191	0.700557
0.004857	0.181635	99.111164	
0.85916	24.511875	59.401191	0.700557
0.004857	0.213923	95.311083	
1.00000	24.511875	59.401191	0.700557
0.004857	0.748181	98.879206	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-29.175201	-88.608675	-1.274502
-0.004229	-1.397188	-77.849382	
0.57749	-29.175201	-88.608675	-1.274502
-0.004229	-0.864981	-46.456528	
0.71833	-29.175201	-88.608675	-1.274502
-0.004229	-0.332868	-27.975145	
0.85916	-29.175201	-88.608675	-1.274502
-0.004229	-0.122333	-17.095060	
1.00000	-29.175201	-88.608675	-1.274502
-0.004229	-0.411263	-14.430658	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1887

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	24.821214	55.342736	0.896110
0.004064	0.984498	122.678923	
0.57749	24.821214	55.342736	0.896110
0.004064	0.608770	102.232913	
0.71833	24.821214	55.342736	0.896110
0.004064	0.232912	87.078741	
0.85916	24.821214	55.342736	0.896110
0.004064	0.224221	81.662784	
1.00000	24.821214	55.342736	0.896110
0.004064	0.795183	82.740019	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-28.743559	-75.582089	-1.361982
-0.004174	-1.495713	-67.828939	
0.57749	-28.743559	-75.582089	-1.361982
-0.004174	-0.926473	-43.454115	
0.71833	-28.743559	-75.582089	-1.361982
-0.004174	-0.357308	-30.464170	
0.85916	-28.743559	-75.582089	-1.361982
-0.004174	-0.151320	-23.542738	
1.00000	-28.743559	-75.582089	-1.361982
-0.004174	-0.523095	-23.664803	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	2.579259	9.179648	0.490947
7.60E-06	0.539952	13.276953	
0.57749	2.579259	9.179648	0.490947
7.60E-06	0.334097	9.702722	
0.71833	2.579259	9.179648	0.490947
7.60E-06	0.128223	6.246828	
0.85916	2.579259	9.179648	0.490947
7.60E-06	0.069355	3.031821	
1.00000	2.579259	9.179648	0.490947
7.60E-06	0.259648	1.513424	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-8.892439	-2.938715	-0.453849
-0.000951	-0.501570	-5.785906	
0.57749	-8.892439	-2.938715	-0.453849
-0.000951	-0.311277	-5.686955	
0.71833	-8.892439	-2.938715	-0.453849
-0.000951	-0.121043	-8.378226	
0.85916	-8.892439	-2.938715	-0.453849
-0.000951	-0.077571	-11.194720	
1.00000	-8.892439	-2.938715	-0.453849
-0.000951	-0.283481	-14.090968	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	23.663356	21.854160	0.789956
0.000216	0.868556	30.580802	
0.57749	23.663356	21.854160	0.789956
0.000216	0.537329	23.403566	
0.71833	23.663356	21.854160	0.789956
0.000216	0.206050	16.687521	
0.85916	23.663356	21.854160	0.789956
0.000216	0.127808	10.857229	
1.00000	23.663356	21.854160	0.789956
0.000216	0.474421	5.940034	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-11.353796	-7.396034	-0.826729
-0.001930	-0.912646	-16.916802	
0.57749	-11.353796	-7.396034	-0.826729
-0.001930	-0.566164	-18.080661	
0.71833	-11.353796	-7.396034	-0.826729
-0.001930	-0.219731	-23.642370	
0.85916	-11.353796	-7.396034	-0.826729
-0.001930	-0.125642	-30.748203	
1.00000	-11.353796	-7.396034	-0.826729
-0.001930	-0.456696	-38.613855	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1888

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	12.649364	23.880675	0.838013
0.000344	0.920870	54.302801	
0.57749	12.649364	23.880675	0.838013
0.000344	0.569507	46.237848	
0.71833	12.649364	23.880675	0.838013
0.000344	0.218040	39.250568	
0.85916	12.649364	23.880675	0.838013
0.000344	0.177650	34.803837	
1.00000	12.649364	23.880675	0.838013
0.000344	0.656093	36.885728	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-15.905374	-44.755586	-1.141310
-0.002484	-1.258846	-48.411612	
0.57749	-15.905374	-44.755586	-1.141310
-0.002484	-0.780533	-34.072987	
0.71833	-15.905374	-44.755586	-1.141310
-0.002484	-0.302256	-24.182005	
0.85916	-15.905374	-44.755586	-1.141310
-0.002484	-0.211414	-21.533890	
1.00000	-15.905374	-44.755586	-1.141310
-0.002484	-0.485131	-26.817807	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	15.916253	53.118319	0.892042
0.004219	0.980224	123.998941	
0.57749	15.916253	53.118319	0.892042
0.004219	0.606202	104.936123	
0.71833	15.916253	53.118319	0.892042
0.004219	0.232071	91.956651	
0.85916	15.916253	53.118319	0.892042
0.004219	0.219590	90.134118	
1.00000	15.916253	53.118319	0.892042
0.004219	0.774872	94.258390	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-35.637017	-77.150663	-1.324820
-0.004796	-1.454813	-60.250252	
0.57749	-35.637017	-77.150663	-1.324820
-0.004796	-0.901511	-34.899882	
0.71833	-35.637017	-77.150663	-1.324820
-0.004796	-0.348276	-24.103371	
0.85916	-35.637017	-77.150663	-1.324820
-0.004796	-0.152067	-19.559288	
1.00000	-35.637017	-77.150663	-1.324820
-0.004796	-0.521386	-23.328949	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	33.420260	15.428890	0.635174
0.002073	0.697919	12.058329	
0.57749	33.420260	15.428890	0.635174
0.002073	0.437066	9.883528	
0.71833	33.420260	15.428890	0.635174
0.002073	0.165289	7.823312	
0.85916	33.420260	15.428890	0.635174
0.002073	0.161540	6.138357	
1.00000	33.420260	15.428890	0.635174
0.002073	0.586048	4.721345	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-6.123276	-21.867990	-1.011712
-1.46E-05	1.110622	-58.343098	
0.57749	-6.123276	-21.867990	-1.011712
-1.46E-05	-0.686368	-50.620177	
0.71833	-6.123276	-21.867990	-1.011712
-1.46E-05	-0.262175	-43.506635	
0.85916	-6.123276	-21.867990	-1.011712
-1.46E-05	-0.101181	-37.022376	
1.00000	-6.123276	-21.867990	-1.011712
-1.46E-05	-0.367435	-33.493177	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1889

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	34.856451	35.143394	0.862113
0.008743	0.933189	69.390198	
0.57749	34.856451	35.143394	0.862113
0.008743	0.575871	57.374652	
0.71833	34.856451	35.143394	0.862113
0.008743	0.219922	59.717940	
0.85916	34.856451	35.143394	0.862113
0.008743	0.276366	82.274476	
1.00000	34.856451	35.143394	0.862113
0.008743	0.933374	110.427653	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-30.260085	-99.363835	-1.567228
-0.006146	-1.710781	-93.603372	
0.57749	-30.260085	-99.363835	-1.567228
-0.006146	-1.057364	-54.487420	
0.71833	-30.260085	-99.363835	-1.567228
-0.006146	-0.403866	-40.398079	
0.85916	-30.260085	-99.363835	-1.567228
-0.006146	-0.162419	-32.525556	
1.00000	-30.260085	-99.363835	-1.567228
-0.006146	-0.523993	-28.025530	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	33.637586	38.433787	1.093493
0.006625	1.190039	85.279456	
0.57749	33.637586	38.433787	1.093493
0.006625	0.734844	71.500485	
0.71833	33.637586	38.433787	1.093493
0.006625	0.280499	68.351858	
0.85916	33.637586	38.433787	1.093493
0.006625	0.342474	80.022467	
1.00000	33.637586	38.433787	1.093493
0.006625	1.194266	101.112580	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-25.746876	-94.925306	-2.035888
-0.005124	-2.230630	-101.697927	
0.57749	-25.746876	-94.925306	-2.035888
-0.005124	-1.379962	-64.314926	
0.71833	-25.746876	-94.925306	-2.035888
-0.005124	-0.529265	-44.950008	
0.85916	-25.746876	-94.925306	-2.035888
-0.005124	-0.191429	-30.215970	
1.00000	-25.746876	-94.925306	-2.035888
-0.005124	-0.649792	-26.074625	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	39.494913	43.389333	1.316287
0.005506	1.437251	81.575934	
0.57749	39.494913	43.389333	1.316287
0.005506	0.888060	67.347629	
0.71833	39.494913	43.389333	1.316287
0.005506	0.339186	62.074882	
0.85916	39.494913	43.389333	1.316287
0.005506	0.374441	69.333405	
1.00000	39.494913	43.389333	1.316287
0.005506	1.324499	84.876472	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-24.618139	-80.582771	-2.269482
-0.004950	-2.490211	-91.011448	
0.57749	-24.618139	-80.582771	-2.269482
-0.004950	-1.541206	-61.294436	
0.71833	-24.618139	-80.582771	-2.269482
-0.004950	-0.592038	-46.970337	
0.85916	-24.618139	-80.582771	-2.269482
-0.004950	-0.222959	-37.317686	
1.00000	-24.618139	-80.582771	-2.269482
-0.004950	-0.675141	-36.977529	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1890

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.849172	9.407502	0.223100
0.004580	0.235045	42.205248	
0.57749	1.849172	9.407502	0.223100
0.004580	0.144251	40.781468	
0.71833	1.849172	9.407502	0.223100
0.004580	0.054682	49.908220	
0.85916	1.849172	9.407502	0.223100
0.004580	0.113101	72.965776	
1.00000	1.849172	9.407502	0.223100
0.004580	0.364410	99.924156	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-26.685248	-75.852175	-0.600199
-0.004620	-0.653419	-45.442263	
0.57749	-26.685248	-75.852175	-0.600199
-0.004620	-0.403754	-15.791987	
0.71833	-26.685248	-75.852175	-0.600199
-0.004620	-0.155161	-3.996882	
0.85916	-26.685248	-75.852175	-0.600199
-0.004620	-0.053277	-1.763816	
1.00000	-26.685248	-75.852175	-0.600199
-0.004620	-0.146637	-1.526119	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	11.583644	21.240492	0.654627
0.004371	0.708705	62.379175	
0.57749	11.583644	21.240492	0.654627
0.004371	0.437066	57.002543	
0.71833	11.583644	21.240492	0.654627
0.004371	0.166358	61.607005	
0.85916	11.583644	21.240492	0.654627
0.004371	0.227637	78.581445	
1.00000	11.583644	21.240492	0.654627
0.004371	0.783659	100.692674	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-21.690997	-78.000357	-1.329727
-0.005328	-1.457118	-59.178794	
0.57749	-21.690997	-78.000357	-1.329727
-0.005328	-0.901679	-29.317414	
0.71833	-21.690997	-78.000357	-1.329727
-0.005328	-0.347798	-16.717255	
0.85916	-21.690997	-78.000357	-1.329727
-0.005328	-0.120175	-9.833891	
1.00000	-21.690997	-78.000357	-1.329727
-0.005328	-0.394571	-11.382710	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	24.610229	55.156340	1.012841
0.004027	1.105455	128.921116	
0.57749	24.610229	55.156340	1.012841
0.004027	0.682627	108.663656	
0.71833	24.610229	55.156340	1.012841
0.004027	0.260537	95.137047	
0.85916	24.610229	55.156340	1.012841
0.004027	0.316160	90.353109	
1.00000	24.610229	55.156340	1.012841
0.004027	1.122980	90.387852	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-30.338466	-71.920118	-1.928095
-0.003797	-2.117004	-72.311619	
0.57749	-30.338466	-71.920118	-1.928095
-0.003797	-1.309353	-44.415039	
0.71833	-30.338466	-71.920118	-1.928095
-0.003797	-0.503840	-27.978376	
0.85916	-30.338466	-71.920118	-1.928095
-0.003797	-0.171514	-16.771183	
1.00000	-30.338466	-71.920118	-1.928095
-0.003797	-0.596006	-13.366985	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1891

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	24.627942	54.421644	1.293628
0.003374	1.415737	116.454028	
0.57749	24.627942	54.421644	1.293628
0.003374	0.874942	97.034227	
0.71833	24.627942	54.421644	1.293628
0.003374	0.334146	83.420921	
0.85916	24.627942	54.421644	1.293628
0.003374	0.356558	77.304495	
1.00000	24.627942	54.421644	1.293628
0.003374	1.281130	75.774156	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-30.091713	-62.078159	-2.208292
-0.003822	-2.427405	-65.009548	
0.57749	-30.091713	-62.078159	-2.208292
-0.003822	-1.502135	-43.012867	
0.71833	-30.091713	-62.078159	-2.208292
-0.003822	-0.576871	-30.782426	
0.85916	-30.091713	-62.078159	-2.208292
-0.003822	-0.213454	-22.820759	
1.00000	-30.091713	-62.078159	-2.208292
-0.003822	-0.756164	-21.948230	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	3.380334	11.385566	0.711066
4.37E-06	0.782180	12.863965	
0.57749	3.380334	11.385566	0.711066
4.37E-06	0.484014	9.203972	
0.71833	3.380334	11.385566	0.711066
4.37E-06	0.185200	5.805754	
0.85916	3.380334	11.385566	0.711066
4.37E-06	0.142989	2.813266	
1.00000	3.380334	11.385566	0.711066
4.37E-06	0.531808	1.534105	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-10.949890	-3.637510	-0.927337
-0.000959	-1.022433	-8.063752	
0.57749	-10.949890	-3.637510	-0.927337
-0.000959	-0.633801	-8.256638	
0.71833	-10.949890	-3.637510	-0.927337
-0.000959	-0.244968	-9.460067	
0.85916	-10.949890	-3.637510	-0.927337
-0.000959	-0.111619	-11.033088	
1.00000	-10.949890	-3.637510	-0.927337
-0.000959	-0.410545	-13.230538	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	20.740742	25.644198	1.147796
0.000136	1.262165	29.155451	
0.57749	20.740742	25.644198	1.147796
0.000136	0.780722	21.958765	
0.71833	20.740742	25.644198	1.147796
0.000136	0.298565	15.395719	
0.85916	20.740742	25.644198	1.147796
0.000136	0.248633	9.662832	
1.00000	20.740742	25.644198	1.147796
0.000136	0.919307	5.112312	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-13.267468	-7.645943	-1.599701
-0.001934	-1.762809	-19.242290	
0.57749	-13.267468	-7.645943	-1.599701
-0.001934	-1.092550	-19.792512	
0.71833	-13.267468	-7.645943	-1.599701
-0.001934	-0.421712	-22.405222	
0.85916	-13.267468	-7.645943	-1.599701
-0.001934	-0.180624	-26.856613	
1.00000	-13.267468	-7.645943	-1.599701
-0.001934	-0.662863	-32.408798	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1892

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	13.711581	26.699334	1.245337
6.60E-06	1.368214	53.134254	
0.57749	13.711581	26.699334	1.245337
6.60E-06	0.846000	45.371053	
0.71833	13.711581	26.699334	1.245337
6.60E-06	0.323112	38.634431	
0.85916	13.711581	26.699334	1.245337
6.60E-06	0.307210	34.936915	
1.00000	13.711581	26.699334	1.245337
6.60E-06	1.133317	36.797477	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-19.272731	-35.205521	-1.972335
-0.002155	-2.173416	-45.359784	
0.57749	-19.272731	-35.205521	-1.972335
-0.002155	-1.346939	-34.160737	
0.71833	-19.272731	-35.205521	-1.972335
-0.002155	-0.520990	-24.622365	
0.85916	-19.272731	-35.205521	-1.972335
-0.002155	-0.195698	-20.983606	
1.00000	-19.272731	-35.205521	-1.972335
-0.002155	-0.718641	-25.136893	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	17.569058	53.221661	1.309246

```
 0.003159    1.432671  118.334014
 0.57749    17.569058   53.221661    1.309246
 0.003159    0.885474   99.737824
 0.71833    17.569058   53.221661    1.309246
 0.003159    0.338006   87.480493
 0.85916    17.569058   53.221661    1.309246
 0.003159    0.351961   83.736719
 1.00000    17.569058   53.221661    1.309246
 0.003159    1.266259   85.193018

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43665   -35.765273  -61.231132   -2.182895
-0.004176   -2.399961   -57.268641
 0.57749   -35.765273  -61.231132   -2.182895
-0.004176   -1.485850   -35.455036
 0.71833   -35.765273  -61.231132   -2.182895
-0.004176   -0.573026   -24.759462
 0.85916   -35.765273  -61.231132   -2.182895
-0.004176   -0.216414   -19.707495
 1.00000   -35.765273  -61.231132   -2.182895
-0.004176   -0.765965   -22.328004

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43665    36.949552   59.401191    0.929291
 0.008892    1.020723  135.948253
 0.57749    36.949552   59.401191    0.929291
 0.008892    0.881082  114.400665
 0.71833    36.949552   59.401191    0.929291
 0.008892    0.241320   99.111164
 0.85916    36.949552   59.401191    0.929291
 0.008892    0.236134   95.311083
 1.00000    36.949552   59.401191    0.929291
 0.008892    0.829128  109.251074

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43665   -35.637017 -105.499679   -1.414730
-0.005593   -1.437716  -102.322735
 0.57749   -35.637017 -105.499679   -1.414730
-0.005593   -0.960764   -64.022146
 0.71833   -35.637017 -105.499679   -1.414730
-0.005593   -0.369868   -44.883419
 0.85916   -35.637017 -105.499679   -1.414730
-0.005593   -0.156824   -35.138578
 1.00000   -35.637017 -105.499679   -1.414730
-0.005593   -0.543561   -38.613855
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1893

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43665    39.494913   55.156340    1.316287
 0.008743    1.437251  128.921116
 0.57749    39.494913   55.156340    1.316287
 0.008743    0.888060  108.663656
 0.71833    39.494913   55.156340    1.316287
 0.008743    0.339186   95.137047
 0.85916    39.494913   55.156340    1.316287
 0.008743    0.374441   90.353109
 1.00000    39.494913   55.156340    1.316287
 0.008743    1.324499  110.427653

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43665   -35.765273  -99.363835   -2.269482
-0.006146   -2.490211  -101.697927
 0.57749   -35.765273  -99.363835   -2.269482
-0.006146   -1.541206   -64.314926
 0.71833   -35.765273  -99.363835   -2.269482
-0.006146   -0.592038   -46.970337
 0.85916   -35.765273  -99.363835   -2.269482
-0.006146   -0.222959   -37.317686
 1.00000   -35.765273  -99.363835   -2.269482
-0.006146   -0.775141   -36.977529

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43665    39.494913   59.401191    1.316287
 0.008892    1.437251  135.948253
 0.57749    39.494913   59.401191    1.316287
 0.008892    0.888060  114.400665
 0.71833    39.494913   59.401191    1.316287
 0.008892    0.339186   99.111164
 0.85916    39.494913   59.401191    1.316287
 0.008892    0.374441   95.311083
 1.00000    39.494913   59.401191    1.316287
 0.008892    1.324499  110.427653

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43665   -35.765273 -105.499679   -2.269482
-0.006146   -2.490211 -102.322735
 0.57749   -35.765273 -105.499679   -2.269482
-0.006146   -1.541206   -64.314926
 0.71833   -35.765273 -105.499679   -2.269482
-0.006146   -0.592038   -46.970337
 0.85916   -35.765273 -105.499679   -2.269482
-0.006146   -0.222959   -37.317686
 1.00000   -35.765273 -105.499679   -2.269482
-0.006146   -0.775141   -38.613855

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43665    39.494913   59.401191    1.316287
 0.008892    1.437251  135.948253
 0.57749    39.494913   59.401191    1.316287
 0.008892    0.888060  114.400665
 0.71833    39.494913   59.401191    1.316287
 0.008892    0.339186   99.111164
 0.85916    39.494913   59.401191    1.316287
 0.008892    0.374441   95.311083
 1.00000    39.494913   59.401191    1.316287
 0.008892    1.324499  110.427653

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43665   -35.765273 -105.499679   -2.269482
-0.006146   -2.490211 -102.322735
 0.57749   -35.765273 -105.499679   -2.269482
-0.006146   -1.541206   -64.314926
 0.71833   -35.765273 -105.499679   -2.269482
-0.006146   -0.592038   -46.970337
 0.85916   -35.765273 -105.499679   -2.269482
-0.006146   -0.222959   -37.317686
 1.00000   -35.765273 -105.499679   -2.269482
-0.006146   -0.775141   -38.613855
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1894

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       163 ================== LENGTH
=     2.977271

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    26.309990   14.472554    0.476147
 0.002004    0.276705    3.451095
 0.14084    26.309990   14.472554    0.476147
 0.002004    0.077018    3.179852
 0.28168    26.309990   14.472554    0.476147
 0.002004    0.112615    4.719778
 0.42252    26.309990   14.472554    0.476147
 0.002004    0.295813   13.124565
 0.56336    26.309990   14.472554    0.476147
 0.002004    0.479018   22.025597

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -3.974848  -22.107757   -0.436911
-8.19E-06   -0.253803   -28.477157
 0.14084   -3.974848  -22.107757   -0.436911
-8.19E-06   -0.070593   -34.053709
 0.28168   -3.974848  -22.107757   -0.436911
-8.19E-06   -0.122600   -39.629451
 0.42252   -3.974848  -22.107757   -0.436911
-8.19E-06   -0.322265   -45.300832
 0.56336   -3.974848  -22.107757   -0.436911
-8.19E-06   -0.521922   -51.139115

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    28.456563  107.197121    0.613604
 0.008226    0.356649  109.607205
 0.14084    28.456563  107.197121    0.613604
 0.008226    0.108026   82.392018
 0.28168    28.456563  107.197121    0.613604
 0.008226    0.224500   60.340156
 0.42252    28.456563  107.197121    0.613604
 0.008226    0.570227   66.288694
 0.56336    28.456563  107.197121    0.613604
 0.008226    0.938141   82.972293

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -35.005236  -42.825746   -0.877405
-0.006531   -0.534295   -20.960896
 0.14084   -35.005236  -42.825746   -0.877405
-0.006531   -0.167536   -31.393055
 0.28168   -35.005236  -42.825746   -0.877405
-0.006531   -0.157865   -43.054509
 0.42252   -35.005236  -42.825746   -0.877405
-0.006531   -0.415221   -61.553143
 0.56336   -35.005236  -42.825746   -0.877405
-0.006531   -0.672520  -103.528922

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    26.105353   88.525219    0.752099
 0.006087    0.436573   95.687879
 0.14084    26.105353   88.525219    0.752099
 0.006087    0.127206   85.879068
 0.28168    26.105353   88.525219    0.752099
 0.006087    0.310821   83.203486
 0.42252    26.105353   88.525219    0.752099
 0.006087    0.802113  100.919670
 0.56336    26.105353   88.525219    0.752099
 0.006087    1.308508  125.961416

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -25.512946  -62.508492   -1.207664
-0.004823   -0.717602   -18.553454
 0.14084   -25.512946  -62.508492   -1.207664
-0.004823   -0.211971   -27.984171
 0.28168   -25.512946  -62.508492   -1.207664
-0.004823   -0.194020   -38.884796
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1895

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.42252   -25.512946  -62.508492   -1.207664
-0.004823   -0.509484   -54.503813
 0.56336   -25.512946  -62.508492   -1.207664
-0.004823   -0.824832   -86.154913

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   37.010594   83.333667    0.925159
 0.005059    0.537228   80.398478
 0.14084   37.010594   83.333667    0.925159
 0.005059    0.154221   71.935852
 0.28168   37.010594   83.333667    0.925159
 0.005059    0.345636   70.307718
 0.42252   37.010594   83.333667    0.925159
 0.005059    0.895638   85.612897
 0.56336   37.010594   83.333667    0.925159
 0.005059    1.458172  107.027265

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -24.023688  -53.434719   -1.341545
-0.004906   -0.792412   -34.336436
 0.14084   -24.023688  -53.434719   -1.341545
-0.004906   -0.230512   -46.295722
 0.28168   -24.023688  -53.434719   -1.341545
-0.004906   -0.238512   -59.511070
 0.42252   -24.023688  -53.434719   -1.341545
-0.004906   -0.626539   -76.643501
 0.56336   -24.023688  -53.434719   -1.341545
-0.004906   -1.014458  -107.013474

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.319047   67.770136    0.131167
 0.004868    0.075969  109.482848
 0.14084    1.319047   67.770136    0.131167
 0.004868    0.028242   96.622610
 0.28168    1.319047   67.770136    0.131167
 0.004868    0.146479   84.263477
 0.42252    1.319047   67.770136    0.131167
 0.004868    0.367918   90.652545
 0.56336    1.319047   67.770136    0.131167
 0.004868    0.607933  105.859964

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -33.189782  -38.891631   -0.572393
-0.005458   -0.352778   -1.236913
 0.14084   -33.189782  -38.891631   -0.572393
-0.005458   -0.113745   -1.099370
 0.28168   -33.189782  -38.891631   -0.572393
-0.005458   -0.033881   -0.979112
 0.42252   -33.189782  -38.891631   -0.572393
-0.005458   -0.088947   -6.271029
 0.56336   -33.189782  -38.891631   -0.572393
-0.005458   -0.143952   -31.134592

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    13.270674   75.623113    0.419891
 0.004531    0.243364  106.971468
 0.14084    13.270674   75.623113    0.419891
 0.004531    0.074048   95.966889
 0.28168    13.270674   75.623113    0.419891
 0.004531    0.261215   88.678729
 0.42252    13.270674   75.623113    0.419891
 0.004531    0.669325   99.028198
 0.56336    13.270674   75.623113    0.419891
 0.004531    1.094725  117.611016

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -25.865749  -47.134039   -1.014507
-0.005922   -0.607485   -13.565203
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1896

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.14084   -25.865749  -47.134039   -1.014507
-0.005922   -0.182967   -16.101041
 0.28168   -25.865749  -47.134039   -1.014507
-0.005922   -0.108603   -18.652569
 0.42252   -25.865749  -47.134039   -1.014507
-0.005922   -0.284785   -26.244971
 0.56336   -25.865749  -47.134039   -1.014507
-0.005922   -0.460831   -51.832048

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    24.553158   96.802270    0.693187
 0.004736    0.402305   99.045477
 0.14084    24.553158   96.802270    0.693187
 0.004736    0.116450   83.153131
 0.28168    24.553158   96.802270    0.693187
 0.004736    0.325093   85.687190
 0.42252    24.553158   96.802270    0.693187
 0.004736    0.836718  101.887149
 0.56336    24.553158   96.802270    0.693187
 0.004736    1.360647  123.984210

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -32.612953  -54.949727   -1.249480
-0.004355   -0.735614   -14.437820
 0.14084   -32.612953  -54.949727   -1.249480
-0.004355   -0.212555   -18.341084
 0.28168   -32.612953  -54.949727   -1.249480
-0.004355   -0.178838   -37.255322
 0.42252   -32.612953  -54.949727   -1.249480
-0.004355   -0.469628   -59.989543
 0.56336   -32.612953  -54.949727   -1.249480
-0.004355   -0.760273   -95.461328

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    24.865756   86.582190    0.901143
 0.003960    0.523329   82.877910
 0.14084    24.865756   86.582190    0.901143
 0.003960    0.149384   69.520860
 0.28168    24.865756   86.582190    0.901143
 0.003960    0.360602   72.051760
 0.42252    24.865756   86.582190    0.901143
 0.003960    0.932872   86.175356
 0.56336    24.865756   86.582190    0.901143
 0.003960    1.515448  105.244684

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -31.590349  -47.360860   -1.389344
-0.004568   -0.815314   -23.674752
 0.14084   -31.590349  -47.360860   -1.389344
-0.004568   -0.233457   -29.210923
 0.28168   -31.590349  -47.360860   -1.389344
-0.004568   -0.232235   -47.250244
 0.42252   -31.590349  -47.360860   -1.389344
-0.004568   -0.610213   -68.488853
 0.56336   -31.590349  -47.360860   -1.389344
-0.004568   -0.988061  -100.396807

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    2.549277    9.126570    0.508941
 6.98E-06    0.292409    1.513132
 0.14084    2.549277    9.126570    0.508941
 6.98E-06    0.082513    1.685271
 0.28168    2.549277    9.126570    0.508941
 6.98E-06    0.140999    1.967141
 0.42252    2.549277    9.126570    0.508941
 6.98E-06    0.370771    2.817979
 0.56336    2.549277    9.126570    0.508941
 6.98E-06    0.600568    4.007535
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1897

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -8.843843   -2.847709   -0.548026
-0.001461   -0.318635   -14.097336
 0.14084   -8.843843   -2.847709   -0.548026
-0.001461   -0.086816   -16.916182
 0.28168   -8.843843   -2.847709   -0.548026
-0.001461   -0.130865   -19.742637
 0.42252   -8.843843   -2.847709   -0.548026
-0.001461   -0.344277   -22.585022
 0.56336   -8.843843   -2.847709   -0.548026
-0.001461   -0.557685   -25.462990

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   23.639672   23.935451    0.816843
 0.000188    0.474742    5.945756
 0.14084   23.639672   23.935451    0.816843
 0.000188    0.243381    3.706924
 0.28168   23.639672   23.935451    0.816843
 0.000188    0.243273    4.503484
 0.42252   23.639672   23.935451    0.816843
 0.000188    0.637966    6.333496
 0.56336   23.639672   23.935451    0.816843
 0.000188    1.033374    8.538774

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -11.470559   -5.431911   -0.942981
-0.002648   -0.543304   -38.624309
 0.14084  -11.470559   -5.431911   -0.942981
-0.002648   -0.152918   -46.496374
 0.28168  -11.470559   -5.431911   -0.942981
-0.002648   -0.210260   -54.476983
 0.42252  -11.470559   -5.431911   -0.942981
-0.002648   -0.552823   -62.720315
 0.56336  -11.470559   -5.431911   -0.942981
-0.002648   -0.895331   -71.707721

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    12.600499   27.201523    0.865703
 0.000298    0.502579   36.883320
 0.14084    12.600499   27.201523    0.865703
 0.000298    0.139970   48.570720
 0.28168    12.600499   27.201523    0.865703
 0.000298    0.335902   64.167498
 0.42252    12.600499   27.201523    0.865703
 0.000298    0.880127   81.026806
 0.56336    12.600499   27.201523    0.865703
 0.000298    1.425489   98.451363

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -16.095283  -42.546468   -1.300593
-0.002572   -0.756008   -26.826208
 0.14084  -16.095283  -42.546468   -1.300593
-0.002572   -0.210686   -32.067413
 0.28168  -16.095283  -42.546468   -1.300593
-0.002572   -0.223299   -37.314703
 0.42252  -16.095283  -42.546468   -1.300593
-0.002572   -0.586393   -42.896735
 0.56336  -16.095283  -42.546468   -1.300593
-0.002572   -0.949376   -49.659554

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   15.905275   90.404952    0.904620
 0.003998    0.525436   94.429180
 0.14084   15.905275   90.404952    0.904620
 0.003998    0.150742   77.508372
 0.28168   15.905275   90.404952    0.904620
 0.003998    0.372537   74.701151
 0.42252   15.905275   90.404952    0.904620
 0.003998    0.964111   86.086439
 0.56336   15.905275   90.404952    0.904620
 0.003998    1.567859  103.354559
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1898

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -39.022748  -43.592110   -1.439834
-0.005491   -0.847612   -23.336452
 0.14084  -39.022748  -43.592110   -1.439834
-0.005491   -0.244566   -27.516705
 0.28168  -39.022748  -43.592110   -1.439834
-0.005491   -0.233078   -39.801037
 0.42252  -39.022748  -43.592110   -1.439834
-0.005491   -0.612493   -59.613592
 0.56336  -39.022748  -43.592110   -1.439834
-0.005491   -0.991799   -92.279842

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    33.538440   14.854297    0.608752
 0.002139    0.353959    4.723676
 0.14084    33.538440   14.854297    0.608752
 0.002139    0.098608    3.491011
 0.28168    33.538440   14.854297    0.608752
 0.002139    0.192658    4.676209
 0.42252    33.538440   14.854297    0.608752
 0.002139    0.501415   11.971709
 0.56336    33.538440   14.854297    0.608752
 0.002139    0.809972   20.198920

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -6.167991  -22.063493   -0.736302
-4.82E-06   -0.425244   -33.513262
 0.14084   -6.167991  -22.063493   -0.736302
-4.82E-06   -0.115894   -32.822951
 0.28168   -6.167991  -22.063493   -0.736302
-4.82E-06   -0.156721   -33.799519
 0.42252   -6.167991  -22.063493   -0.736302
-4.82E-06   -0.411898   -38.340653
 0.56336   -6.167991  -22.063493   -0.736302
-4.82E-06   -0.667156   -43.602666

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   34.997413   99.888194    0.797724
 0.008882    0.463332  141.487687
 0.14084   34.997413   99.888194    0.797724
 0.008882    0.143519   81.840271
 0.28168   34.997413   99.888194    0.797724
 0.008882    0.354355   57.952766
 0.42252   34.997413   99.888194    0.797724
 0.008882    0.914785   59.609547
 0.56336   34.997413   99.888194    0.797724
 0.008882    1.492251   73.691656

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -32.772011  -39.454905   -1.380731
-0.006424   -0.823592   -28.049339
 0.14084  -32.772011  -39.454905   -1.380731
-0.006424   -0.247350   -30.409831
 0.28168  -32.772011  -39.454905   -1.380731
-0.006424   -0.205631   -36.380075
 0.42252  -32.772011  -39.454905   -1.380731
-0.006424   -0.540108   -53.385502
 0.56336  -32.772011  -39.454905   -1.380731
-0.006424   -0.874550   -93.185320

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   33.758213   84.166703    1.055862
 0.006760    0.611676  101.143259
 0.14084   33.758213   84.166703    1.055862
 0.006760    0.179733   85.503434
 0.28168   33.758213   84.166703    1.055862
 0.006760    0.493271   75.492380
 0.42252   33.758213   84.166703    1.055862
 0.006760    1.279505   84.918484
 0.56336   33.758213   84.166703    1.055862
 0.006760    2.078247  103.680606
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1899

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -27.453191  -53.054639   -1.908464
-0.004899   -1.121781   -26.098137
 0.14084  -27.453191  -53.054639   -1.908464
-0.004899   -0.324486   -28.612432
 0.28168  -27.453191  -53.054639   -1.908464
-0.004899   -0.271669   -34.621345
 0.42252  -27.453191  -53.054639   -1.908464
-0.004899   -0.714173   -49.134198
 0.56336  -27.453191  -53.054639   -1.908464
-0.004899   -1.157707   -79.917317

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   39.579512   81.279430    1.309958
```

```
 0.005618    0.759785   84.900655
 0.14084    39.579512   81.279430    1.309958
 0.005618    0.219073   71.706064
 0.28168    39.579512   81.279430    1.309958
 0.005618    0.564926   63.985012
 0.42252    39.579512   81.279430    1.309958
 0.005618    1.471011   72.552227
 0.56336    39.579512   81.279430    1.309958
 0.005618    2.386876   88.778793

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -25.985364  -45.886997   -2.187805
-0.004945   -1.281429  -36.999874
 0.14084  -25.985364  -45.886997   -2.187805
-0.004945   -0.366602  -43.259711
 0.28168  -25.985364  -45.886997   -2.187805
-0.004945   -0.336374  -52.946495
 0.42252  -25.985364  -45.886997   -2.187805
-0.004945   -0.885919  -69.732370
 0.56336  -25.985364  -45.886997   -2.187805
-0.004945   -1.435925  -99.978646

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.842651   55.346906    0.205512
 0.004486    0.118277   99.953266
 0.14084    1.842651   55.346906    0.205512
 0.004486    0.084554   89.850525
 0.28168    1.842651   55.346906    0.205512
 0.004486    0.189871   79.880090
 0.42252    1.842651   55.346906    0.205512
 0.004486    0.489588   84.114996
 0.56336    1.842651   55.346906    0.205512
 0.004486    0.801941   96.726938

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -28.371812  -34.308596   -0.746899
-0.004500   -0.450262  -15.527065
 0.14084  -28.371812  -34.308596   -0.746899
-0.004500   -0.139484   -1.328485
 0.28168  -28.371812  -34.308596   -0.746899
-0.004500   -0.053479   -1.259696
 0.42252  -28.371812  -34.308596   -0.746899
-0.004500   -0.139439   -6.834780
 0.56336  -28.371812  -34.308596   -0.746899
-0.004500   -0.225672  -27.899331

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   11.548530   65.044137    0.664074
 0.004281    0.383770  100.713837
 0.14084   11.548530   65.044137    0.664074
 0.004281    0.115313   89.779636
 0.28168   11.548530   65.044137    0.664074
 0.004281    0.382719   80.804279
 0.42252   11.548530   65.044137    0.664074
 0.004281    0.993128   85.739074
 0.56336   11.548530   65.044137    0.664074
 0.004281    1.615242   98.726435
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1900

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -23.201857  -38.660126   -1.487204
-0.005027   -0.876345  -11.385744
 0.14084  -23.201857  -38.660126   -1.487204
-0.005027   -0.258074  -13.508899
 0.28168  -23.201857  -38.660126   -1.487204
-0.005027   -0.170482  -16.051146
 0.42252  -23.201857  -38.660126   -1.487204
-0.005027   -0.449122  -23.976085
 0.56336  -23.201857  -38.660126   -1.487204
-0.005027   -0.728412  -46.626540

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   24.651949   82.674223    0.999445
 0.004373    0.581772   90.381772
 0.14084   24.651949   82.674223    0.999445
 0.004373    0.166370   79.258085
 0.28168   24.651949   82.674223    0.999445
 0.004373    0.501391   77.987323
 0.42252   24.651949   82.674223    0.999445
 0.004373    1.304672   89.107761
 0.56336   24.651949   82.674223    0.999445
 0.004373    2.115510  105.640349

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -31.286947  -46.775776   -1.936340
-0.003452   -1.130983  -13.374828
 0.14084  -31.286947  -46.775776   -1.936340
-0.003452   -0.321568  -16.303812
 0.28168  -31.286947  -46.775776   -1.936340
-0.003452   -0.256941  -32.060472
 0.42252  -31.286947  -46.775776   -1.936340
-0.003452   -0.562126  -52.628983
 0.56336  -31.286947  -46.775776   -1.936340
-0.003452   -1.096023  -82.934095

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   24.640105   77.419462    1.303553
 0.003662    0.756015   75.768279
 0.14084   24.640105   77.419462    1.303553
 0.003662    0.214551   66.515430
 0.28168   24.640105   77.419462    1.303553
 0.003662    0.578762   66.035066
 0.42252   24.640105   77.419462    1.303553
 0.003662    1.532758   76.019672
 0.56336   24.640105   77.419462    1.303553
 0.003662    2.484679   90.595011

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -30.831903  -40.901331   -2.272520
-0.003848   -1.325364  -21.958732
 0.14084  -30.831903  -40.901331   -2.272520
-0.003848   -0.374666  -27.396945
 0.28168  -30.831903  -40.901331   -2.272520
-0.003848   -0.334469  -43.902049
 0.42252  -30.831903  -40.901331   -2.272520
-0.003848   -0.881799  -64.427714
 0.56336  -30.831903  -40.901331   -2.272520
-0.003848   -1.429044  -93.167399

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    3.323851   11.237550    0.744251
 4.51E-06    0.432849    1.533730
 0.14084    3.323851   11.237550    0.744251
 4.51E-06    0.119988    2.075114
 0.28168    3.323851   11.237550    0.744251
 4.51E-06    0.270884    3.269786
 0.42252    3.323851   11.237550    0.744251
 4.51E-06    0.713691    4.532229
 0.56336    3.323851   11.237550    0.744251
 4.51E-06    1.156482    5.809137

Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1901

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -10.850777   -3.566405   -1.056438
-0.001508   -0.614043  -13.236879
 0.14084  -10.850777   -3.566405   -1.056438
-0.001508   -0.171294  -16.875317
 0.28168  -10.850777   -3.566405   -1.056438
-0.001508   -0.190490  -21.126492
 0.42252  -10.850777   -3.566405   -1.056438
-0.001508   -0.503345  -25.405799
 0.56336  -10.850777   -3.566405   -1.056438
-0.001508   -0.815390  -29.699248

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   20.673067   26.761655    1.211728
 0.000133    0.704284    5.109305
 0.14084   20.673067   26.761655    1.211728
 0.000133    0.192527    3.688457
 0.28168   20.673067   26.761655    1.211728
 0.000133    0.447513    4.939763
 0.42252   20.673067   26.761655    1.211728
 0.000133    1.176479    7.117952
 0.56336   20.673067   26.761655    1.211728
 0.000133    1.905485    9.595940

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -13.165347   -6.618811   -1.739493
-0.002581   -1.010406  -62.118894
 0.14084  -13.165347   -6.618811   -1.739493
-0.002581   -0.281502  -40.562204
 0.28168  -13.165347   -6.618811   -1.739493
-0.002581   -0.309925  -50.233885
 0.42252  -13.165347   -6.618811   -1.739493
-0.002581   -0.819387  -60.386540
 0.56336  -13.165347   -6.618811   -1.739493
-0.002581   -1.327483  -71.028126

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   13.624019   26.477281    1.305714
 8.88E-06    0.757082   36.778903
 0.14084   13.624019   26.477281    1.305714
 8.88E-06    0.209173   46.715915
 0.28168   13.624019   26.477281    1.305714
 8.88E-06    0.565839   59.542332
 0.42252   13.624019   26.477281    1.305714
 8.88E-06    1.483608   72.536258
 0.56336   13.624019   26.477281    1.305714
 8.88E-06    2.401762   85.581132

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -19.042007  -36.211223   -2.191471
-0.002201   -1.271610  -25.145956
 0.14084  -19.042007  -36.211223   -2.191471
-0.002201   -0.353682  -31.352029
 0.28168  -19.042007  -36.211223   -2.191471
-0.002201   -0.334468  -38.477268
 0.42252  -19.042007  -36.211223   -2.191471
-0.002201   -0.882972  -45.839335
 0.56336  -19.042007  -36.211223   -2.191471
-0.002201   -1.431284  -53.183994

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   17.535316   78.317421    1.331450
 0.003408    0.772263   85.190575
 0.14084   17.535316   78.317421    1.331450
 0.003408    0.219404   73.702671
 0.28168   17.535316   78.317421    1.331450
 0.003408    0.609093   70.238748
 0.42252   17.535316   78.317421    1.331450
 0.003408    1.591851   78.541939
 0.56336   17.535316   78.317421    1.331450
 0.003408    2.581768   91.894792
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1902

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -36.551738  -38.223473   -2.363241
-0.004435   -1.379897  -22.336254
 0.14084  -36.551738  -38.223473   -2.363241
-0.004435   -0.391179  -27.271833
 0.28168  -36.551738  -38.223473   -2.363241
-0.004435   -0.341505  -40.481705
 0.42252  -36.551738  -38.223473   -2.363241
-0.004435   -0.900607  -60.480108
 0.56336  -36.551738  -38.223473   -2.363241
-0.004435   -1.459461  -89.424472

COMB     DB -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   37.010594  107.197121    0.925159
 0.008226    0.537228  109.607205
 0.14084   37.010594  107.197121    0.925159
 0.008226    0.154221   96.622610
 0.28168   37.010594  107.197121    0.925159
 0.008226    0.327537   88.678729
 0.42252   37.010594  107.197121    0.925159
 0.008226    0.964111  101.887149
 0.56336   37.010594  107.197121    0.925159
 0.008226    1.567859  125.961416

COMB     DB -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -39.022748  -62.508492   -1.439834
-0.006531   -0.847612  -38.624309
 0.14084  -39.022748  -62.508492   -1.439834
-0.006531   -0.244566  -46.496374
 0.28168  -39.022748  -62.508492   -1.439834
-0.006531   -0.238512  -59.511070
 0.42252  -39.022748  -62.508492   -1.439834
-0.006531   -0.626539  -76.643601
 0.56336  -39.022748  -62.508492   -1.439834
-0.006531   -1.014458 -107.013474

COMB     DL -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   39.579512   99.888194    1.331450
 0.008882    0.772263  110.487667
 0.14084   39.579512   99.888194    1.331450
 0.008882    0.219404   89.850525
 0.28168   39.579512   99.888194    1.331450
 0.008882    0.609093   80.804279
 0.42252   39.579512   99.888194    1.331450
 0.008882    1.591851   89.107761
 0.56336   39.579512   99.888194    1.331450
 0.008882    2.581768  105.640349

COMB     DL -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -36.551738  -53.054639   -2.363241
-0.006424   -1.379897  -36.999874
 0.14084  -36.551738  -53.054639   -2.363241
-0.006424   -0.391179  -43.259711
 0.28168  -36.551738  -53.054639   -2.363241
-0.006424   -0.341505  -52.946495
 0.42252  -36.551738  -53.054639   -2.363241
-0.006424   -0.900607  -69.732370
 0.56336  -36.551738  -53.054639   -2.363241
-0.006424   -1.459461  -99.978646

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   39.579512  107.197121    1.331450
 0.008882    0.772263  110.487667
 0.14084   39.579512  107.197121    1.331450
 0.008882    0.219404   96.622610
 0.28168   39.579512  107.197121    1.331450
 0.008882    0.609093   88.678729
 0.42252   39.579512  107.197121    1.331450
 0.008882    1.591851  101.887149
 0.56336   39.579512  107.197121    1.331450
 0.008882    2.581768  125.961416
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1903

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -39.022748  -62.508492   -2.363241
-0.006531   -1.379897  -38.624309
 0.14084  -39.022748  -62.508492   -2.363241
-0.006531   -0.391179  -46.496374
 0.28168  -39.022748  -62.508492   -2.363241
-0.006531   -0.341505  -59.511070
 0.42252  -39.022748  -62.508492   -2.363241
-0.006531   -0.900607  -76.643601
 0.56336  -39.022748  -62.508492   -2.363241
-0.006531   -1.459461 -107.013474

COMB   DESIGN ----------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   39.579512  107.197121    1.331450
 0.008882    0.772263  110.487667
 0.14084   39.579512  107.197121    1.331450
 0.008882    0.219404   96.622610
 0.28168   39.579512  107.197121    1.331450
 0.008882    0.609093   88.678729
 0.42252   39.579512  107.197121    1.331450
 0.008882    1.591851  101.887149
 0.56336   39.579512  107.197121    1.331450
 0.008882    2.581768  125.961416

COMB   DESIGN ----------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -39.022748  -62.508492   -2.363241
-0.006531   -1.379897  -38.624309
 0.14084  -39.022748  -62.508492   -2.363241
-0.006531   -0.391179  -46.496374
 0.28168  -39.022748  -62.508492   -2.363241
-0.006531   -0.341505  -59.511070
 0.42252  -39.022748  -62.508492   -2.363241
-0.006531   -0.900607  -76.643601
 0.56336  -39.022748  -62.508492   -2.363241
-0.006531   -1.459461 -107.013474

ELEM      164 ================ LENGTH
=    2.977417

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.43662    2.626082   65.317882    0.468139
 0.001443    0.524852   82.150212
 0.57747    2.626082   65.317882    0.468139
 0.001443    0.328535   54.813198
 0.71831    2.626082   65.317882    0.468139
 0.001443    0.132211   27.590015
 0.85916    2.626082   65.317882    0.468139
 0.001443    0.059825   11.894798
 1.00000    2.626082   65.317882    0.468139
 0.001443    0.240401    2.557258

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.43662   -6.291179   -2.033308   -0.430784
-1.62E-05   -0.482211   -6.860459
 0.57747   -6.291179   -2.033308   -0.430784
-1.62E-05   -0.301560   -6.785195
 0.71831   -6.291179   -2.033308   -0.430784
-1.62E-05   -0.120912   -7.359320
 0.85916   -6.291179   -2.033308   -0.430784
-1.62E-05   -0.064090   -9.603880
 1.00000   -6.291179   -2.033308   -0.430784
-1.62E-05   -0.260412  -28.622047

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.43662    5.919947   94.811566    0.603023
 0.007946    0.676577  168.387606
 0.57747    5.919947   94.811566    0.603023
 0.007946    0.423695  130.715166
 0.71831    5.919947   94.811566    0.603023
 0.007946    0.170731  106.841406
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1904

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
 0.85916    5.919947   94.811566    0.603023
 0.007946    0.137655  101.458172
 1.00000    5.919947   94.811566    0.603023
 0.007946    0.459660  117.431956

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.43662  -11.704104  -86.099476   -0.771120
-0.006357   -0.836284  -36.392664
 0.57747  -11.704104  -86.099476   -0.771120
-0.006357   -0.512937   -9.767051
 0.71831  -11.704104  -86.099476   -0.771120
-0.006357   -0.211157   -5.704291
 0.85916  -11.704104  -86.099476   -0.771120
-0.006357   -0.099224   -6.711509
 1.00000  -11.704104  -86.099476   -0.771120
-0.006357   -0.334946  -17.585812

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.43662    9.099244   85.844339    0.728795
 0.005723    0.815902  161.762860
 0.57747    9.099244   85.844339    0.728795
 0.005723    0.510295  128.105734
 0.71831    9.099244   85.844339    0.728795
 0.005723    0.204561  104.605252
 0.85916    9.099244   85.844339    0.728795
 0.005723    0.158395   95.426616
 1.00000    9.099244   85.844339    0.728795
 0.005723    0.576188  112.758257

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.43662  -10.125633 -114.110779   -0.997692
-0.004857   -1.099031  -87.790815
 0.57747  -10.125633 -114.110779   -0.997692
-0.004857   -0.680706  -46.655701
 0.71831  -10.125633 -114.110779   -0.997692
-0.004857   -0.277100  -20.041084
 0.85916  -10.125633 -114.110779   -0.997692
-0.004857   -0.112448   -5.884996
 1.00000  -10.125633 -114.110779   -0.997692
-0.004857   -0.406537  -14.915207

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.43662   11.260730   71.636631    0.880624
 0.004754    0.985391  135.368849
 0.57747   11.260730   71.636631    0.880624
 0.004754    0.616112  107.269934
 0.71831   11.260730   71.636631    0.880624
 0.004754    0.246699   87.613853
 0.85916   11.260730   71.636631    0.880624
 0.004754    0.166492   79.871016
 1.00000   11.260730   71.636631    0.880624
 0.004754    0.619514   94.280236

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.43662   -8.957898 -108.618149   -1.081407
-0.004498   -1.195889 -113.682015
 0.57747   -8.957898 -108.618149   -1.081407
-0.004498   -0.742449   -74.080978
 0.71831   -8.957898 -108.618149   -1.081407
-0.004498   -0.301215   -46.961278
 0.85916   -8.957898 -108.618149   -1.081407
-0.004498   -0.131966   -30.766028
 1.00000   -8.957898 -108.618149   -1.081407
-0.004498   -0.491733   -33.576320

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.43662    3.981217    8.715326    0.124424
 0.005428    0.139043   47.064319
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1905

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
 0.57747    3.981217    8.715326    0.124424
 0.005428    0.086875   45.864852
 0.71831    3.981217    8.715326    0.124424
 0.005428    0.034613   56.822900
 0.85916    3.981217    8.715326    0.124424
 0.005428    0.083034   85.234497
 1.00000    3.981217    8.715326    0.124424
 0.005428    0.256113  124.855347

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.43662   -3.298573 -103.693138   -0.414331
-0.005546   -0.440942   -54.218364
 0.57747   -3.298573 -103.693138   -0.414331
-0.005546   -0.267212   -18.443485
 0.71831   -3.298573 -103.693138   -0.414331
-0.005546   -0.111535    -2.121179
 0.85916   -3.298573 -103.693138   -0.414331
-0.005546   -0.031764    -0.892546
 1.00000   -3.298573 -103.693138   -0.414331
-0.005546   -0.069669    -0.843666

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.43662    9.452554    8.293713    0.391763
 0.004947    0.437369   49.503987
 0.57747    9.452554    8.293713    0.391763
 0.004947    0.273101   48.599316
 0.71831    9.452554    8.293713    0.391763
 0.004947    0.108679   59.285502
 0.85916    9.452554    8.293713    0.391763
 0.004947    0.125952   86.303946
 1.00000    9.452554    8.293713    0.391763
 0.004947    0.437075  127.131960

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.43662   -3.021021 -136.673715   -0.743659
-0.005763   -0.812333 -114.977560
 0.57747   -3.021021 -136.673715   -0.743659
-0.005763   -0.500544   -65.196173
 0.71831   -3.021021 -136.673715   -0.743659
-0.005763   -0.205604   -32.245810
 0.85916   -3.021021 -136.673715   -0.743659
-0.005763   -0.068693   -13.313957
 1.00000   -3.021021 -136.673715   -0.743659
-0.005763   -0.219713   -10.496535

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.43662    9.701319   77.271831    0.663467
 0.004400    0.742336  176.129288
 0.57747    9.701319   77.271831    0.663467
 0.004400    0.464126  145.844474
 0.71831    9.701319   77.271831    0.663467
 0.004400    0.185750  123.983810
 0.85916    9.701319   77.271831    0.663467
 0.004400    0.144506  114.364245
 1.00000    9.701319   77.271831    0.663467
 0.004400    0.547521  117.893571

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.43662   -9.459227 -113.754503   -0.962996
-0.004256   -1.069260 -102.026375
 0.57747   -9.459227 -113.754503   -0.962996
-0.004256   -0.665474   -59.821649
 0.71831   -9.459227 -113.754503   -0.962996
-0.004256   -0.273625   -29.707389
 0.85916   -9.459227 -113.754503   -0.962996
-0.004256   -0.101551   -12.857441
 1.00000   -9.459227 -113.754503   -0.962996
-0.004256   -0.370440   -10.277593
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    1906

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.43662   10.713072   64.488012    0.848843
```

```
 0.003682    0.949497  147.403071
0.57747   10.713072   64.488012    0.848843
 0.003682    0.593542  122.128481
0.71831   10.713072   64.488012    0.848843
 0.003682    0.237455  103.919858
0.85916   10.713072   64.488012    0.848843
 0.003682    0.156950   95.924547
1.00000   10.713072   64.488012    0.848843
 0.003682    0.602246   98.812237

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -8.542542 -104.550042   -1.063445
-0.004007   -1.182772 -121.543451
0.57747   -8.542542 -104.550042   -1.063445
-0.004007   -0.736852  -82.555632
0.71831   -8.542542 -104.550042   -1.063445
-0.004007   -0.300945  -53.671176
0.85916   -8.542542 -104.550042   -1.063445
-0.004007   -0.126030  -35.691914
1.00000   -8.542542 -104.550042   -1.063445
-0.004007   -0.474260  -30.069770

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    3.214321    0.292553    0.465722
7.11E-06    0.520672    1.438068
0.57747    3.214321    0.292553    0.465722
7.11E-06    0.382370    1.391374
0.71831    3.214321    0.292553    0.465722
7.11E-06    0.130049    1.262464
0.85916    3.214321    0.292553    0.465722
7.11E-06    0.057673    1.212625
1.00000    3.214321    0.292553    0.465722
7.11E-06    0.231890    1.194676

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -1.143839  -12.929443   -0.415252
-0.000679   -0.464666   -52.991394
0.57747   -1.143839  -12.929443   -0.415252
-0.000679   -0.290530   -47.853106
0.71831   -1.143839  -12.929443   -0.415252
-0.000679   -0.116397   -42.801384
0.85916   -1.143839  -12.929443   -0.415252
-0.000679   -0.065202   -37.868499
1.00000   -1.143839  -12.929443   -0.415252
-0.000679   -0.260538   -33.084556

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    8.387203    0.606555    0.748766
0.000205    0.836925    3.929712
0.57747    8.387203    0.606555    0.748766
0.000205    0.522931    3.801349
0.71831    8.387203    0.606555    0.748766
0.000205    0.208887    4.182245
0.85916    8.387203    0.606555    0.748766
0.000205    0.098930    5.220847
1.00000    8.387203    0.606555    0.748766
0.000205    0.396594    6.791197

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -1.724539  -37.518604   -0.709964
-0.001420   -0.794480  -105.085341
0.57747   -1.724539  -37.518604   -0.709964
-0.001420   -0.496790   -90.307357
0.71831   -1.724539  -37.518604   -0.709964
-0.001420   -0.199787   -77.445908
0.85916   -1.724539  -37.518604   -0.709964
-0.001420   -0.105520   -64.253180
1.00000   -1.724539  -37.518604   -0.709964
-0.001420   -0.419082   -52.788953
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1907

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   10.306584    1.946053    0.794626
 0.000325    0.887423   24.631886
0.57747   10.306584    1.946053    0.794626
 0.000325    0.554212   25.199021
0.71831   10.306584    1.946053    0.794626
 0.000325    0.220894   27.470953
0.85916   10.306584    1.946053    0.794626
 0.000325    0.134288   33.545215
1.00000   10.306584    1.946053    0.794626
 0.000325    0.536866   52.623578

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -2.026258  -93.354595   -0.959995
-0.001821   -1.073667  -146.083651
0.57747   -2.026258  -93.354595   -0.959995
-0.001821   -0.671121  -108.312317
0.71831   -2.026258  -93.354595   -0.959995
-0.001821   -0.269704   -72.560596
0.85916   -2.026258  -93.354595   -0.959995
-0.001821   -0.113028   -50.617316
1.00000   -2.026258  -93.354595   -0.959995
-0.001821   -0.445446   -43.188266

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   10.583220   49.479281    0.844955
 0.003872    0.944869  128.998963
0.57747   10.583220   49.479281    0.844955
 0.003872    0.590548  110.132510
0.71831   10.583220   49.479281    0.844955
 0.003872    0.236113   99.477220
0.85916   10.583220   49.479281    0.844955
 0.003872    0.165386  100.597385
1.00000   10.583220   49.479281    0.844955
 0.003872    0.621264  112.192106

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -7.560228 -111.284984   -1.088282
-0.004657   -1.205634 -131.629148
0.57747   -7.560228 -111.284984   -1.088282
-0.004657   -0.749309  -90.486501
0.71831   -7.560228 -111.284984   -1.088282
-0.004657   -0.304772  -61.275783
0.85916   -7.560228 -111.284984   -1.088282
-0.004657   -0.127309   -42.805318
1.00000   -7.560228 -111.284984   -1.088282
-0.004657   -0.472459   -36.576009

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    2.504009   57.918273    0.593379
 0.001398    0.665360   69.962494
0.57747    2.504009   57.918273    0.593379
 0.001398    0.416675   46.216143
0.71831    2.504009   57.918273    0.593379
 0.001398    0.168139   22.969478
0.85916    2.504009   57.918273    0.593379
 0.001398    0.086860    2.286475
1.00000    2.504009   57.918273    0.593379
 0.001398    0.380457    2.827316

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -5.656645   -1.789794   -0.702047
-1.16E-05   -0.798007   -7.784453
0.57747   -5.656645   -1.789794   -0.702047
-1.16E-05   -0.503737   -7.547674
0.71831   -5.656645   -1.789794   -0.702047
-1.16E-05   -0.209519   -7.848079
0.85916   -5.656645   -1.789794   -0.702047
-1.16E-05   -0.083107   -11.095541
1.00000   -5.656645   -1.789794   -0.702047
-1.16E-05   -0.330670   -32.449467
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1908

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    6.026079   83.734070    0.777345
 0.007814    0.872910  150.461201
0.57747    6.026079   83.734070    0.777345
 0.007814    0.546927  119.370518
0.71831    6.026079   83.734070    0.777345
 0.007814    0.221010  101.979916
0.85916    6.026079   83.734070    0.777345
 0.007814    0.187795  102.258883
1.00000    6.026079   83.734070    0.777345
 0.007814    0.682511  120.896110

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -10.273368  -80.276605   -1.188625
-0.006274   -1.314268   -38.758524
0.57747  -10.273368  -80.276605   -1.188625
-0.006274   -0.817384   -9.612756
0.71831  -10.273368  -80.276605   -1.188625
-0.006274   -0.337124   -6.438791
0.85916  -10.273368  -80.276605   -1.188625
-0.006274   0.129985   -7.776756
1.00000  -10.273368  -80.276605   -1.188625
-0.006274   -0.441150   -22.824118

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    8.684494   75.420623    0.997916
 0.005811    1.116791  143.082988
0.57747    8.684494   75.420623    0.997916
 0.005811    0.698655  115.289047
0.71831    8.684494   75.420623    0.997916
 0.005811    0.280406   97.801843
0.85916    8.684494   75.420623    0.997916
 0.005811    0.235878   97.320943
1.00000    8.684494   75.420623    0.997916
 0.005811    0.894349  120.525085

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -9.160983 -102.872394   -1.578028
-0.004911   -1.754307   -79.116721
0.57747   -9.160983 -102.872394   -1.578028
-0.004911   -1.094035   -39.867717
0.71831   -9.160983 -102.872394   -1.578028
-0.004911   -0.445502   -1.545468
0.85916   -9.160983 -102.872394   -1.578028
-0.004911   -0.154629   -7.921881
1.00000   -9.160983 -102.872394   -1.578028
-0.004911   -0.562045   -20.586615

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   10.411764   62.943933    1.217463
 0.004828    1.361350  119.937376
0.57747   10.411764   62.943933    1.217463
 0.004828    0.851064   96.731508
0.71831   10.411764   62.943933    1.217463
 0.004828    0.340353   82.090200
0.85916   10.411764   62.943933    1.217463
 0.004828    0.263367   81.675850
1.00000   10.411764   62.943933    1.217463
 0.004828    1.015341  100.889350

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -8.151114   -98.910106   -1.799746
-0.004522   -2.004653  -106.097552
0.57747   -8.151114   -98.910106   -1.799746
-0.004522   -1.251343   -68.004313
0.71831   -8.151114   -98.910106   -1.799746
-0.004522   -0.507626   -45.831754
0.85916   -8.151114   -98.910106   -1.799746
-0.004522   -0.183045   -31.439848
1.00000   -8.151114   -98.910106   -1.799746
-0.004522   -0.684745   -37.140166
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1909

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    3.624338    8.676104    0.186683
0.004520    0.208456   46.954248
0.57747    3.624338    8.676104    0.186683
0.004520    0.130081   47.234942
0.71831    3.624338    8.676104    0.186683
0.004520    0.051706   58.429437
0.85916    3.624338    8.676104    0.186683
0.004520    0.102307   86.238162
1.00000    3.624338    8.676104    0.186683
0.004520    0.326515  119.629724

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -3.110866   -87.868983   -0.538458
-0.004599   -0.578694   -49.195062
0.57747   -3.110866   -87.868983   -0.538458
-0.004599   -0.353445   -16.149278
0.71831   -3.110866   -87.868983   -0.538458
-0.004599   -0.141100   -2.266700
0.85916   -3.110866   -87.868983   -0.538458
-0.004599   -0.042388   -1.092242
1.00000   -3.110866   -87.868983   -0.538458
-0.004599   -0.111150   -1.029697

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    8.355024    8.376026    0.594646
0.004199    0.662455   48.571775
0.57747    8.355024    8.376026    0.594646
0.004199    0.413125   48.847675
0.71831    8.355024    8.376026    0.594646
0.004199    0.163870   58.999316
0.85916    8.355024    8.376026    0.594646
0.004199    0.183593   86.652450
1.00000    8.355024    8.376026    0.594646
0.004199    0.655341  124.622666

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -2.783095 -116.923503   -1.128758
-0.004921   -1.240356 -101.200790
0.57747   -2.783095 -116.923503   -1.128758
-0.004921   -0.767830   -55.854273
0.71831   -2.783095 -116.923503   -1.128758
-0.004921   -0.308119   -28.611436
0.85916   -2.783095 -116.923503   -1.128758
-0.004921   -0.099065   -12.781270
1.00000   -2.783095 -116.923503   -1.128758
-0.004921   -0.339207    -9.844121

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    8.545276   69.980747    0.929100
 0.003567    1.038518  164.971181
0.57747    8.545276   69.980747    0.929100
 0.003567    0.649076  138.558853
0.71831    8.545276   69.980747    0.929100
 0.003567    0.259424  118.961816
0.85916    8.545276   69.980747    0.929100
 0.003567    0.225660  112.816251
1.00000    8.545276   69.980747    0.929100
 0.003567    0.870074  116.026402

COMB DL-G2-3 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -8.542756  -95.136742   -1.540519
-0.003398   -1.714909   -88.886907
0.57747   -8.542756  -95.136742   -1.540519
-0.003398   -1.069482   -51.793774
0.71831   -8.542756  -95.136742   -1.540519
-0.003398   -0.432391   -26.782627
0.85916   -8.542756  -95.136742   -1.540519
-0.003398   -0.138579   -12.684943
1.00000   -8.542756  -95.136742   -1.540519
-0.003398   -0.521996   -10.021758
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1910

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    9.585469   58.471352    1.200067
 0.002990    1.341306  138.549906
0.57747    9.585469   58.471352    1.200067
 0.002990    0.838133  116.480396
0.71831    9.585469   58.471352    1.200067
 0.002990    0.334478  100.119771
0.85916    9.585469   58.471352    1.200067
 0.002990    0.261949   94.908299
1.00000    9.585469   58.471352    1.200067
 0.002990    1.022124   97.670423

COMB DL-G2-4 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -7.754726   -89.251554   -1.815625
-0.003285   -2.023570  -112.602362
0.57747   -7.754726   -89.251554   -1.815625
-0.003285   -1.262832   -77.597851
0.71831   -7.754726   -89.251554   -1.815625
-0.003285   -0.502092   -52.727349
0.85916   -7.754726   -89.251554   -1.815625
-0.003285   -0.174734   -36.715602
1.00000   -7.754726   -89.251554   -1.815625
-0.003285   -0.673307   -30.751766

COMB DL-G3-1 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    3.032428    0.412366    0.674733
4.13E-06    0.754093    2.306334
0.57747    3.032428    0.412366    0.674733
4.13E-06    0.471062    2.142595
0.71831    3.032428    0.412366    0.674733
4.13E-06    0.187448    1.990463
0.85916    3.032428    0.412366    0.674733
4.13E-06    0.119369    1.854341
1.00000    3.032428    0.412366    0.674733
4.13E-06    0.475142    1.767242

COMB DL-G3-1 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -1.091120  -13.237528   -0.848645
-0.000668   -0.947189   -56.212683
0.57747   -1.091120  -13.237528   -0.848645
-0.000668   -0.591365   -50.791757
0.71831   -1.091120  -13.237528   -0.848645
-0.000668   -0.235575   -45.456194
0.85916   -1.091120  -13.237528   -0.848645
-0.000668   -0.094129   -40.178430
1.00000   -1.091120  -13.237528   -0.848645
-0.000668   -0.377755   -35.032346

COMB DL-G3-2 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    7.530151    0.612919    1.091174
0.000130    1.210585    4.288259
0.57747    7.530151    0.612919    1.091174
0.000130    0.760525    4.171350
0.71831    7.530151    0.612919    1.091174
0.000130    0.302013    4.355502
0.85916    7.530151    0.612919    1.091174
0.000130    0.196104    5.016334
1.00000    7.530151    0.612919    1.091174
0.000130    0.783214    6.330682

COMB DL-G3-2 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -1.693203   -36.393374   -1.400483
-0.001319   -1.564739  -106.119953
0.57747   -1.693203   -36.393374   -1.400483
-0.001319   -0.977957   -91.341954
0.71831   -1.693203   -36.393374   -1.400483
-0.001319   -0.391180   -77.592152
0.85916   -1.693203   -36.393374   -1.400483
-0.001319   -0.153605   -64.649557
1.00000   -1.693203   -36.393374   -1.400483
-0.001319   -0.611794   -52.876728
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1911

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    9.010358    1.630472    1.172117
5.55E-06    1.307441   22.689066
0.57747    9.010358    1.630472    1.172117
5.55E-06    0.815842   23.664465
0.71831    9.010358    1.630472    1.172117
5.55E-06    0.323651   26.068866
0.85916    9.010358    1.630472    1.172117
5.55E-06    0.243825   35.782077
1.00000    9.010358    1.630472    1.172117
5.55E-06    0.961440   54.543826

COMB DL-G3-3 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -2.019761   -81.107811   -1.713082
-0.001398   -1.910816  -135.931008
0.57747   -2.019761   -81.107811   -1.713082
-0.001398   -1.192849  -103.249606
0.71831   -2.019761   -81.107811   -1.713082
-0.001398   -0.475306   -72.059744
0.85916   -2.019761   -81.107811   -1.713082
-0.001398   -0.164303   -53.435208
1.00000   -2.019761   -81.107811   -1.713082
-0.001398   -0.656645   -45.095904

COMB DL-G3-4 ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662    9.404102   45.872290    1.216574
 0.002883    1.359032  125.305125
0.57747    9.404102   45.872290    1.216574
 0.002883    0.848962  108.653475
0.71831    9.404102   45.872290    1.216574
 0.002883    0.338202   98.162870
0.85916    9.404102   45.872290    1.216574
 0.002883    0.274635   99.731200
1.00000    9.404102   45.872290    1.216574
 0.002883    1.054178  108.774612

COMB DL-G3-4 ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -6.864737   -93.581277   -1.862583
-0.003613   -2.070184  -123.334617
0.57747   -6.864737   -93.581277   -1.862583
-0.003613   -1.289437   -86.610219
0.71831   -6.864737   -93.581277   -1.862583
-0.003613   -0.516864   -60.992699
0.85916   -6.864737   -93.581277   -1.862583
-0.003613   -0.178158   -45.341416
1.00000   -6.864737   -93.581277   -1.862583
-0.003613   -0.683751   -38.388706

COMB      DB ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   11.260730   94.811566    0.880624
 0.007946    0.985391  176.129288
0.57747   11.260730   94.811566    0.880624
 0.007946    0.616112  145.844474
0.71831   11.260730   94.811566    0.880624
 0.007946    0.246699  123.983160
0.85916   11.260730   94.811566    0.880624
 0.007946    0.166492  114.364245
1.00000   11.260730   94.811566    0.880624
 0.007946    0.621264  127.131960

COMB      DB ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -11.704104 -136.673715   -1.088282
-0.006357   -1.205634  -146.083651
0.57747  -11.704104 -136.673715   -1.088282
-0.006357   -0.749309  -108.312317
0.71831  -11.704104 -136.673715   -1.088282
-0.006357   -0.304772   -77.045908
0.85916  -11.704104 -136.673715   -1.088282
-0.006357   -0.131966   -64.253180
1.00000  -11.704104 -136.673715   -1.088282
-0.006357   -0.491733   -52.788953
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                1912

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   11.411764   83.734070    1.217463
 0.007814    1.361350  164.971181
0.57747   11.411764   83.734070    1.217463
 0.007814    0.851064  138.558853
0.71831   11.411764   83.734070    1.217463
 0.007814    0.340353  118.961816
0.85916   11.411764   83.734070    1.217463
 0.007814    0.274635  112.816251
1.00000   11.411764   83.734070    1.217463
 0.007814    1.054178  124.622666

COMB      DL ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -10.273368 -116.923503   -1.862583
-0.006274   -2.070184  -135.931008
0.57747  -10.273368 -116.923503   -1.862583
-0.006274   -1.289437  -103.249606
0.71831  -10.273368 -116.923503   -1.862583
-0.006274   -0.516864   -77.592152
0.85916  -10.273368 -116.923503   -1.862583
-0.006274   -0.183045   -64.649557
1.00000  -10.273368 -116.923503   -1.862583
-0.006274   -0.684745   -52.876728

COMB      CAR ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   11.260730   94.811566    1.217463
 0.007946    1.361350  176.129288
0.57747   11.260730   94.811566    1.217463
 0.007946    0.851064  145.844474
0.71831   11.260730   94.811566    1.217463
 0.007946    0.340353  123.983160
0.85916   11.260730   94.811566    1.217463
 0.007946    0.274635  114.364245
1.00000   11.260730   94.811566    1.217463
 0.007946    1.054178  127.131960

COMB      CAR ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -11.704104 -136.673715   -1.862583
-0.006357   -2.070184  -146.083651
0.57747  -11.704104 -136.673715   -1.862583
-0.006357   -1.289437  -108.312317
0.71831  -11.704104 -136.673715   -1.862583
-0.006357   -0.516864   -77.592152
0.85916  -11.704104 -136.673715   -1.862583
-0.006357   -0.183045   -64.649557
1.00000  -11.704104 -136.673715   -1.862583
-0.006357   -0.684745   -52.876728

COMB      DESIGN ------------------ MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   11.260730   94.811566    1.217463
 0.007946    1.361350  176.129288
0.57747   11.260730   94.811566    1.217463
 0.007946    0.851064  145.844474
0.71831   11.260730   94.811566    1.217463
 0.007946    0.340353  123.983160
0.85916   11.260730   94.811566    1.217463
 0.007946    0.274635  114.364245
1.00000   11.260730   94.811566    1.217463
 0.007946    1.054178  127.131960

COMB      DESIGN ------------------ MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -11.704104 -136.673715   -1.862583
-0.006357   -2.070184  -146.083651
0.57747  -11.704104 -136.673715   -1.862583
-0.006357   -1.289437  -108.312317
```

```
0.71831   -11.704104  -136.673715    -1.862583
-0.006357   -0.516864   -77.592152
0.85916   -11.704104  -136.673715    -1.862583
-0.006357   -0.183045   -64.649557
1.00000   -11.704104  -136.673715    -1.862583
-0.006357   -0.684745   -52.876728
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1913

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      165 ================== LENGTH =     2.977593

COMB DB-G1-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     2.636835      64.987936      0.476696
 0.001479    0.269582       2.558783
0.14085     2.636835      64.987936      0.476696
 0.001479    0.069645       3.211778
0.28170     2.636835      64.987936      0.476696
 0.001479    0.119754       3.869857
0.42255     2.636835      64.987936      0.476696
 0.001479    0.302524       4.548342
0.56341     2.636835      64.987936      0.476696
 0.001479    0.485303       5.250929

COMB DB-G1-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -6.256092     -1.972886     -0.435812
-7.42E-06   -0.245819     -28.651549
0.14085    -6.256092     -1.972886     -0.435812
-7.42E-06   -0.063033     -55.420132
0.28170    -6.256092     -1.972886     -0.435812
-7.42E-06   -0.130260     -82.601918
0.42255    -6.256092     -1.972886     -0.435812
-7.42E-06   -0.330194    -109.798181
0.56341    -6.256092     -1.972886     -0.435812
-7.42E-06   -0.530119    -137.017178

COMB DB-G1-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     3.556375      159.844920     0.615338
 0.008220    0.348436      117.816053
0.14085     3.556375      159.844920     0.615338
 0.008220    0.114671       93.741460
0.28170     3.556375      159.844920     0.615338
 0.008220    0.215985       69.870412
0.42255     3.556375      159.844920     0.615338
 0.008220    0.517496       64.238346
0.56341     3.556375      159.844920     0.615338
 0.008220    0.843016       71.855756

COMB DB-G1-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -15.160456    -24.596523     -0.776319
-0.006114   -0.460098     -17.624178
0.14085    -15.160456    -24.596523     -0.776319
-0.006114   -0.135646     -52.764284
0.28170    -15.160456    -24.596523     -0.776319
-0.006114   -0.167626     -88.267317
0.42255    -15.160456    -24.596523     -0.776319
-0.006114   -0.425773    -126.581736
0.56341    -15.160456    -24.596523     -0.776319
-0.006114   -0.683845    -186.093966

COMB DB-G1-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     7.568244      129.985528     0.737361
 0.005944    0.415507      112.994127
0.14085     7.568244      129.985528     0.737361
 0.005944    0.122826      119.116534
0.28170     7.568244      129.985528     0.737361
 0.005944    0.285184      126.040131
0.42255     7.568244      129.985528     0.737361
 0.005944    0.697227      145.558735
0.56341     7.568244      129.985528     0.737361
 0.005944    1.125615      174.030483

COMB DB-G1-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -12.447649    -72.657922     -1.021515
-0.004290   -0.585572     -14.947936
0.14085    -12.447649    -72.657922     -1.021515
-0.004290   -0.160828     -47.376805
0.28170    -12.447649    -72.657922     -1.021515
-0.004290   -0.202860     -80.088415
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1914

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.42255    -12.447649    -72.657922     -1.021515
-0.004290   -0.512205    -114.701690
0.56341    -12.447649    -72.657922     -1.021515
-0.004290   -0.821435    -163.776263

COMB DB-G1-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000    10.010359     108.249371     0.890844
 0.004938    0.501129       94.476257
0.14085    10.010359     108.249371     0.890844
 0.004938    0.141198       99.938569
0.28170    10.010359     108.249371     0.890844
 0.004938    0.310743      107.861024
0.42255    10.010359     108.249371     0.890844
 0.004938    0.762948      126.472905
0.56341    10.010359     108.249371     0.890844
 0.004938    1.228715      154.683216

COMB DB-G1-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.876820    -74.353570     -1.110651
-0.004224   -0.634956     -33.612624
0.14085    -10.876820    -74.353750     -1.110651
-0.004224   -0.170380     -56.136930
0.28170    -10.876820    -74.353750     -1.110651
-0.004224   -0.245976     -79.829683
0.42255    -10.876820    -74.353750     -1.110651
-0.004224   -0.619695    -105.517185
0.56341    -10.876820    -74.353750     -1.110651
-0.004224   -0.993299    -143.357173

COMB DB-G2-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     2.035942      63.642891      0.124355
 0.005372    0.069764      125.161020
0.14085     2.035942      63.642891      0.124355
 0.005372    0.038005      118.149025
0.28170     2.035942      63.642891      0.124355
 0.005372    0.120124      111.340224
0.42255     2.035942      63.642891      0.124355
 0.005372    0.276754      119.992541
0.56341     2.035942      63.642891      0.124355
 0.005372    0.453502      139.745849

COMB DB-G2-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -6.230026     -52.514656     -0.421556
-0.005112   -0.254309     -0.844906
0.14085    -6.230026     -52.514656     -0.421556
-0.005112   -0.078424     -0.792821
0.28170    -6.230026     -52.514656     -0.421556
-0.005112   -0.034523     -0.758414
0.42255    -6.230026     -52.514656     -0.421556
-0.005112   -0.086718     -3.084937
0.56341    -6.230026     -52.514656     -0.421556
-0.005112   -0.138863     -23.155582

COMB DB-G2-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     7.693331      59.419856      0.392076
 0.005000    0.219296      127.398990
0.14085     7.693331      59.419856      0.392076
 0.005000    0.073822      133.852138
0.28170     7.693331      59.419856      0.392076
 0.005000    0.217339      143.663302
0.42255     7.693331      59.419856      0.392076
 0.005000    0.521437      168.208560
0.56341     7.693331      59.419856      0.392076
 0.005000    0.844237      203.177353

COMB DB-G2-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -5.726804     -89.387320     -0.769799
-0.005206   -0.447793     -10.499371
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1915

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.14085    -5.726804     -89.387320     -0.769799
-0.005206   -0.125751     -7.812147
0.28170    -5.726804     -89.387320     -0.769799
-0.005206   -0.109407     -6.292015
0.42255    -5.726804     -89.387320     -0.769799
-0.005206   -0.273971     -7.351535
0.56341    -5.726804     -89.387320     -0.769799
-0.005206   -0.438388     -24.943984

COMB DB-G2-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     8.487421      112.889652     0.670119
 0.004725    0.376968      118.049485
0.14085     8.487421      112.889652     0.670119
 0.004725    0.109299      116.231766
0.28170     8.487421      112.889652     0.670119
 0.004725    0.268551      129.992539
0.42255     8.487421      112.889652     0.670119
 0.004725    0.661105      154.284539
0.56341     8.487421      112.889652     0.670119
 0.004725    1.066904      185.991432

COMB DB-G2-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -11.329111    -80.432370     -0.967750
-0.003646   -0.557285     -10.281147
0.14085    -11.329111    -80.432370     -0.967750
-0.003646   -0.152009     -19.774304
0.28170    -11.329111    -80.432370     -0.967750
-0.003646   -0.184944     -47.307976
0.42255    -11.329111    -80.432370     -0.967750
-0.003646   -0.466136     -78.055710
0.56341    -11.329111    -80.432370     -0.967750
-0.003646   -0.747165    -119.861125

COMB DB-G2-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     9.714625      94.315242      0.858249
 0.003953    0.482247       98.945903
0.14085     9.714625      94.315242      0.858249
 0.003953    0.133479       97.352665
0.28170     9.714625      94.315242      0.858249
 0.003953    0.299341      108.348544
0.42255     9.714625      94.315242      0.858249
 0.003953    0.737512      128.115497
0.56341     9.714625      94.315242      0.858249
 0.003953    1.186778      154.664031

COMB DB-G2-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.103004    -76.617992     -1.071646
-0.003845   -0.613509     -30.080682
0.14085    -10.103004    -76.617992     -1.071646
-0.003845   -0.164521     -34.649692
0.28170    -10.103004    -76.617992     -1.071646
-0.003845   -0.237500     -54.693831
0.42255    -10.103004    -76.617992     -1.071646
-0.003845   -0.597562     -76.436105
0.56341    -10.103004    -76.617992     -1.071646
-0.003845   -0.957499    -108.220059

COMB DB-G3-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     3.238871      0.368109       0.471714
 1.18E-05    0.266489      1.195595
0.14085     3.238871      0.368109       0.471714
 1.18E-05    0.066590      1.287264
0.28170     3.238871      0.368109       0.471714
 1.18E-05    0.118683      1.471094
0.42255     3.238871      0.368109       0.471714
 1.18E-05    0.294195      1.617441
0.56341     3.238871      0.368109       0.471714
 1.18E-05    0.473130      1.962410
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1916

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1.136985     -12.856286     -0.424262
-0.001115   -0.238611     -33.095967
0.14085    -1.136985     -12.856286     -0.424262
-0.001115   -0.060593     -28.610349
0.28170    -1.136985     -12.856286     -0.424262
-0.001115   -0.131201     -24.300012
0.42255    -1.136985     -12.856286     -0.424262
-0.001115   -0.329042     -20.286289
0.56341    -1.136985     -12.856286     -0.424262
-0.001115   -0.526878     -16.541031

COMB DB-G3-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     8.365154      2.692347       0.757145
 0.000250    0.424319      6.801619
0.14085     8.365154      2.692347       0.757145
 0.000250    0.107427      9.123331
0.28170     8.365154      2.692347       0.757145
 0.000250    0.205130      14.898754
0.42255     8.365154      2.692347       0.757145
 0.000250    0.509123      22.254998
0.56341     8.365154      2.692347       0.757145
 0.000250    0.816034      30.535683

COMB DB-G3-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1.816782     -35.812783     -0.731834
-0.002010   -0.411777     -52.809595
0.14085    -1.816782     -35.812783     -0.731834
-0.002010   -0.104829     -42.835049
0.28170    -1.816782     -35.812783     -0.731834
-0.002010   -0.210725     -35.764677
0.42255    -1.816782     -35.812783     -0.731834
-0.002010   -0.528316     -29.546404
0.56341    -1.816782     -35.812783     -0.731834
-0.002010   -0.845858     -24.299343

COMB DB-G3-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000    10.313940      5.295172       0.799326
 0.000329    0.447155      52.613627
0.14085    10.313940      5.295172       0.799326
 0.000329    0.113080      79.319699
0.28170    10.313940      5.295172       0.799326
 0.000329    0.280353      108.832545
0.42255    10.313940      5.295172       0.799326
 0.000329    0.694358      139.743990
0.56341    10.313940      5.295172       0.799326
 0.000329    1.111603      171.489372

COMB DB-G3-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -2.173252     -90.879502     -0.994900
-0.001712   -0.557513     -43.202210
0.14085    -2.173252     -90.879502     -0.994900
-0.001712   -0.140163     -35.974831
0.28170    -2.173252     -90.879502     -0.994900
-0.001712   -0.223189     -29.977008
0.42255    -2.173252     -90.879502     -0.994900
-0.001712   -0.558517     -24.590402
0.56341    -2.173252     -90.879502     -0.994900
-0.001712   -0.893734     -20.573047

COMB DB-G3-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     9.385505      84.897747      0.853941
 0.004156    0.479400      112.363149
0.14085     9.385505      84.897747      0.853941
 0.004156    0.134421      105.542696
0.28170     9.385505      84.897747      0.853941
 0.004156    0.309270      111.723312
0.42255     9.385505      84.897747      0.853941
 0.004156    0.756431      130.448815
0.56341     9.385505      84.897747      0.853941
 0.004156    1.218411      167.676058
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1917

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -9.420943     -78.184305     -1.101648
-0.004601   -0.630353     -36.588513
0.14085    -9.420943     -78.184305     -1.101648
-0.004601   -0.168931     -30.567477
0.28170    -9.420943     -78.184305     -1.101648
-0.004601   -0.236785     -42.085542
0.42255    -9.420943     -78.184305     -1.101648
-0.004601   -0.595020     -57.065319
0.56341    -9.420943     -78.184305     -1.101648
-0.004601   -0.953146     -83.848317

COMB DL-G1-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     2.511417      57.682870      0.606981
 0.001514    0.344063       2.829477
0.14085     2.511417      57.682870      0.606981
 0.001514    0.089685       3.395057
0.28170     2.511417      57.682870      0.606981
 0.001514    0.189174       3.974218
0.42255     2.511417      57.682870      0.606981
 0.001514    0.495394       4.562867
0.56341     2.511417      57.682870      0.606981
 0.001514    0.801560       5.154323

COMB DL-G1-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -5.630394     -1.755140      -0.730448
-4.36E-06   -0.423766     -32.479359
0.14085    -5.630394     -1.755140      -0.730448
-4.36E-06   -0.211178     -56.337198
0.28170    -5.630394     -1.755140      -0.730448
-4.36E-06   -0.165447     -80.223399
0.42255    -5.630394     -1.755140      -0.730448
-4.36E-06   -0.419792    -104.327732
0.56341    -5.630394     -1.755140      -0.730448
-4.36E-06   -0.674327    -128.472161

COMB DL-G1-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     3.323199      146.021550     0.794266
 0.008229    0.469364      120.994295
0.14085     3.323199      146.021550     0.794266
 0.008229    0.147784       96.030029
0.28170     3.323199      146.021550     0.794266
 0.008229    0.326448       71.188566
0.42255     3.323199      146.021550     0.794266
 0.008229    0.505606       63.487063
0.56341     3.323199      146.021550     0.794266
 0.008229    1.325057       69.005812

COMB DL-G1-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -13.905221    -20.957294     -1.216466
-0.006088   -0.719807     -22.862247
0.14085    -13.905221    -20.957294     -1.216466
-0.006088   -0.211921     -52.977412
0.28170    -13.905221    -20.957294     -1.216466
-0.006088   -0.215828     -83.149193
0.42255    -13.905221    -20.957294     -1.216466
-0.006088   -0.549019    -116.456584
0.56341    -13.905221    -20.957294     -1.216466
-0.006088   -0.882117    -175.002318

COMB DL-G1-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     6.823636      119.549781     1.012254
 0.006147    0.583378      120.542175
0.14085     6.823636      119.549781     1.012254
 0.006147    0.167365      121.462803
0.28170     6.823636      119.549781     1.012254
 0.006147    0.439649      122.710442
0.42255     6.823636      119.549781     1.012254
 0.006147    1.097004      136.312958
0.56341     6.823636      119.549781     1.012254
 0.006147    1.769117      159.429714
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1918

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -11.717607    -61.031611     -1.604541
-0.004476   -0.924845     -20.625354
0.14085    -11.717607    -61.031611     -1.604541
-0.004476   -0.254186     -48.354000
0.28170    -11.717607    -61.031611     -1.604541
-0.004476   -0.277524     -76.132670
0.42255    -11.717607    -61.031611     -1.604541
-0.004476   -0.701995    -106.082791
0.56341    -11.717607    -61.031611     -1.604541
-0.004476   -1.126065    -153.997302

COMB DL-G1-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     8.884581      99.553358      1.235156
 0.005107    0.704786      100.904944
0.14085     8.884581      99.553358      1.235156
 0.005107    0.193689      101.969422
0.28170     8.884581      99.553358      1.235156
 0.005107    0.504737      104.548711
0.42255     8.884581      99.553358      1.235156
 0.005107    1.260556      117.846597
0.56341     8.884581      99.553358      1.235156
 0.005107    2.028352      140.982292

COMB DL-G1-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.267277    -64.263622     -1.832707
-0.004321   -1.047841     -37.180398
0.14085    -10.267277    -64.263622     -1.832707
-0.004321   -0.281687     -55.735346
0.28170    -10.267277    -64.263622     -1.832707
-0.004321   -0.340482     -74.808906
0.42255    -10.267277    -64.263622     -1.832707
-0.004321   -0.858788     -96.040332
0.56341    -10.267277    -64.263622     -1.832707
-0.004321   -1.376508    -133.544144

COMB DL-G2-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     1.769286      52.638779      0.183933
 0.004556    0.115692      119.649462
0.14085     1.769286      52.638779      0.183933
 0.004556    0.046959      115.501909
0.28170     1.769286      52.638779      0.183933
 0.004556    0.154847      111.378309
0.42255     1.769286      52.638779      0.183933
 0.004556    0.362766      119.264231
0.56341     1.769286      52.638779      0.183933
 0.004556    0.586170      136.444148

COMB DL-G2-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -5.680564     -46.661985     -0.532595
-0.004266   -0.310459     -1.030891
0.14085    -5.680564     -46.661985     -0.532595
-0.004266   -0.089016     -0.996840
0.28170    -5.680564     -46.661985     -0.532595
-0.004266   -0.051325     -0.961147
0.42255    -5.680564     -46.661985     -0.532595
-0.004266   -0.128451     -3.142871
0.56341    -5.680564     -46.661985     -0.532595
-0.004266   -0.205729     -23.001554

COMB DL-G2-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     6.618781      50.321342      0.595943
 0.004348    0.344065      124.628997
0.14085     6.618781      50.321342      0.595943
 0.004348    0.102469      130.793385
0.28170     6.618781      50.321342      0.595943
 0.004348    0.322561      139.427697
0.42255     6.618781      50.321342      0.595943
 0.004348    0.780989      160.185170
0.56341     6.618781      50.321342      0.595943
 0.004348    1.254768      190.127196
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                  1919

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -5.220440     -77.725641     -1.129993
-0.004466   -0.643849     -9.847870
0.14085    -5.220440     -77.725641     -1.129993
-0.004466   -0.172690     -7.231238
0.28170    -5.220440     -77.725641     -1.129993
-0.004466   -0.166230     -5.388806
0.42255    -5.220440     -77.725641     -1.129993
-0.004466   -0.416273     -6.114891
0.56341    -5.220440     -77.725641     -1.129993
-0.004466   -0.666086     -24.584563

COMB DL-G2-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     7.447275      96.652324      0.939224
 0.003992    0.534868      115.995061
0.14085     7.447275      96.652324      0.939224
 0.003992    0.146704      113.490241
0.28170     7.447275      96.652324      0.939224
 0.003992    0.430950      125.831595
0.42255     7.447275      96.652324      0.939224
 0.003992    1.070416      146.777705
0.56341     7.447275      96.652324      0.939224
 0.003992    1.719555      173.899328

COMB DL-G2-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.081599    -69.819088     -1.548359
-0.002888   -0.879395     -10.027475
0.14085    -10.081599    -69.819088     -1.548359
-0.002888   -0.232530     -16.540108
0.28170    -10.081599    -69.819088     -1.548359
-0.002888   -0.259031     -40.673574
0.42255    -10.081599    -69.819088     -1.548359
-0.002888   -0.653042     -67.202791
0.56341    -10.081599    -69.819088     -1.548359
-0.002888   -1.046741    -105.634221

COMB DL-G2-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     8.678889      80.856845      1.214453
 0.003345    0.687702       97.648060
0.14085     8.678889      80.856845      1.214453
 0.003345    0.182623       95.452993
0.28170     8.678889      80.856845      1.214453
 0.003345    0.512017      105.171530
0.42255     8.678889      80.856845      1.214453
 0.003345    1.272985      122.043148
0.56341     8.678889      80.856845      1.214453
 0.003345    2.042051      144.737917

COMB DL-G2-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -9.041541     -67.963510     -1.834486
-0.003192   -1.036756     -30.765423
0.14085    -9.041541     -67.963510     -1.834486
-0.003192   -0.269709     -32.482846
```

```
0.28170    -9.041541   -67.963510    -1.834486
-0.003192   -0.335580   -48.824922
0.42255    -9.041541   -67.963510    -1.834486
-0.003192   -0.845523   -67.063618
0.56341    -9.041541   -67.963510    -1.834486
-0.003192   -1.354689   -95.408552

COMB DL-G3-1 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    3.052881    0.434075    0.683076
8.99E-06    0.382595    1.770992
0.14085    3.052881    0.434075    0.683076
8.99E-06    0.095409    1.777741
0.28170    3.052881    0.434075    0.683076
8.99E-06    0.244892    1.918447
0.42255    3.052881    0.434075    0.683076
8.99E-06    0.608685    2.123410
0.56341    3.052881    0.434075    0.683076
8.99E-06    0.972987    2.365299
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1920

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -1.083320   -13.166394    -0.869114
-0.001137   -0.484024   -35.047308
0.14085   -1.083320   -13.166394    -0.869114
-0.001137   -0.119701   -30.097559
0.28170   -1.083320   -13.166394    -0.869114
-0.001137   -0.189670   -25.366964
0.42255   -1.083320   -13.166394    -0.869114
-0.001137   -0.476920   -20.688854
0.56341   -1.083320   -13.166394    -0.869114
-0.001137   -0.763383   -16.155746

COMB DL-G3-2 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    7.518972    1.871369    1.105513
0.000171    0.618170    6.334315
0.14085    7.518972    1.871369    1.105513
0.000171    0.153957    8.692167
0.28170    7.518972    1.871369    1.105513
0.000171    0.401628   14.670052
0.42255    7.518972    1.871369    1.105513
0.000171    1.000159   21.849203
0.56341    7.518972    1.871369    1.105513
0.000171    1.599611   29.762637

COMB DL-G3-2 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -1.751571   -35.326388    -1.430319
-0.001871   -0.798664   -52.902473
0.14085   -1.751571   -35.326388    -1.430319
-0.001871   -0.199688   -42.973732
0.28170   -1.751571   -35.326388    -1.430319
-0.001871   -0.307921   -34.716083
0.42255   -1.751571   -35.326388    -1.430319
-0.001871   -0.772649   -27.388715
0.56341   -1.751571   -35.326388    -1.430319
-0.001871   -1.236576   -21.883226

COMB DL-G3-3 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    9.116892    1.625367    1.180593
7.73E-06    0.658370   54.520685
0.14085    9.116892    1.625367    1.180593
7.73E-06    0.162890   78.998732
0.28170    9.116892    1.625367    1.180593
7.73E-06    0.493230  105.866015
0.42255    9.116892    1.625367    1.180593
7.73E-06    1.219194  133.356378
0.56341    9.116892    1.625367    1.180593
7.73E-06    1.947108  161.180834

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -1.994365   -81.625679    -1.736219
-0.001402   -0.964358   -45.116508
0.14085   -1.994365   -81.625679    -1.736219
-0.001402   -0.237505   -37.178549
0.28170   -1.994365   -81.625679    -1.736219
-0.001402   -0.329132   -30.129788
0.42255   -1.994365   -81.625679    -1.736219
-0.001402   -0.824954   -23.779961
0.56341   -1.994365   -81.625679    -1.736219
-0.001402   -1.320206   -18.380467

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    8.416168   70.235716    1.229052
 0.003231    0.695485  108.762042
0.14085    8.416168   70.235716    1.229052
 0.003231    1.003688  103.697125
0.28170    8.416168   70.235716    1.229052
 0.003231    0.530216  111.015422
0.42255    8.416168   70.235716    1.229052
 0.003231    1.309001  127.620373
0.56341    8.416168   70.235716    1.229052
 0.003231    2.098174  150.112321
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1921

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -8.274378   -70.490561    -1.881363
-0.003571   -1.058799   -38.407109
0.14085   -8.274378   -70.490561    -1.881363
-0.003571   -0.272080   -31.796607
0.28170   -8.274378   -70.490561    -1.881363
-0.003571   -0.340449   -39.333863
0.42255   -8.274378   -70.490561    -1.881363
-0.003571   -0.856717   -51.223111
0.56341   -8.274378   -70.490561    -1.881363
-0.003571   -1.372064   -74.246938

COMB      DB ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000   10.313940   159.844920    0.890844
 0.008220    0.501129   127.398990
0.14085   10.313940   159.844920    0.890844
 0.008220    0.141198   133.852138
0.28170   10.313940   159.844920    0.890844
 0.008220    0.310743   143.663302
0.42255   10.313940   159.844920    0.890844
 0.008220    0.762948   168.208560
0.56341   10.313940   159.844920    0.890844
 0.008220    1.228715   203.177353

COMB      DB ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -15.160456   -90.879502    -1.110651
-0.006114   -0.634956   -52.809595
0.14085   -15.160456   -90.879502    -1.110651
-0.006114   -0.170380   -56.136930

0.28170   -15.160456   -90.879502    -1.110651
-0.006114   -0.245976   -88.267317
0.42255   -15.160456   -90.879502    -1.110651
-0.006114   -0.619695  -126.581736
0.56341   -15.160456   -90.879502    -1.110651
-0.006114   -0.993299  -186.093966

COMB      DL ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    9.116892  146.021550    1.235156
 0.008229    0.704786  124.628997
0.14085    9.116892  146.021550    1.235156
 0.008229    0.193689  130.793385
0.28170    9.116892  146.021550    1.235156
 0.008229    0.530216  139.427697
0.42255    9.116892  146.021550    1.235156
 0.008229    1.309001  160.185170
0.56341    9.116892  146.021550    1.235156
 0.008229    2.098174  190.127196

COMB      DL ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000  -13.905221   -81.625679    -1.881363
-0.006088   -1.058799   -52.902473
0.14085  -13.905221   -81.625679    -1.881363
-0.006088   -0.281687   -56.337198
0.28170  -13.905221   -81.625679    -1.881363
-0.006088   -0.340482   -83.149193
0.42255  -13.905221   -81.625679    -1.881363
-0.006088   -0.858788  -116.456584
0.56341  -13.905221   -81.625679    -1.881363
-0.006088   -1.376508  -175.002318

COMB      CAR ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000   10.313940   159.844920    1.235156
 0.008229    0.704786  127.398990
0.14085   10.313940   159.844920    1.235156
 0.008229    0.193689  133.852138
0.28170   10.313940   159.844920    1.235156
 0.008229    0.530216  143.663302
0.42255   10.313940   159.844920    1.235156
 0.008229    1.309001  168.208560
0.56341   10.313940   159.844920    1.235156
 0.008229    2.098174  203.177353
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1922

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000  -15.160456   -90.879502    -1.881363
-0.006114   -1.058799   -52.902473
0.14085  -15.160456   -90.879502    -1.881363
-0.006114   -0.281687   -56.337198
0.28170  -15.160456   -90.879502    -1.881363
-0.006114   -0.340482   -88.267317
0.42255  -15.160456   -90.879502    -1.881363
-0.006114   -0.858788  -126.581736
0.56341  -15.160456   -90.879502    -1.881363
-0.006114   -1.376508  -186.093966

COMB    DESIGN ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000   10.313940   159.844920    1.235156
 0.008229    0.704786  127.398990
0.14085   10.313940   159.844920    1.235156
 0.008229    0.193689  133.852138
0.28170   10.313940   159.844920    1.235156
 0.008229    0.530216  143.663302
0.42255   10.313940   159.844920    1.235156
 0.008229    1.309001  168.208560
0.56341   10.313940   159.844920    1.235156
 0.008229    2.098174  203.177353

COMB    DESIGN ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000  -15.160456   -90.879502    -1.881363
-0.006114   -1.058799   -52.902473
0.14085  -15.160456   -90.879502    -1.881363
-0.006114   -0.281687   -56.337198
0.28170  -15.160456   -90.879502    -1.881363
-0.006114   -0.340482   -88.267317
0.42255  -15.160456   -90.879502    -1.881363
-0.006114   -0.858788  -126.581736
0.56341  -15.160456   -90.879502    -1.881363
-0.006114   -1.376508  -186.093966

ELEM      166 ================== LENGTH
=     2.977811

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656    0.558102   79.500089    0.471328
 0.001004    0.528622  108.302358
0.57742    0.558102   79.500089    0.471328
 0.001004    0.330922   75.011422
0.71828    0.558102   79.500089    0.471328
 0.001004    0.133214   41.803575
0.85914    0.558102   79.500089    0.471328
 0.001004    0.061723   -8.390977
1.00000    0.558102   79.500089    0.471328
 0.001004    0.246112    2.193461

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656  -13.349309   -3.570034    -0.439541
-0.000189   -0.491546   -6.172747
0.57742  -13.349309   -3.570034    -0.439541
-0.000189   -0.307343   -4.791758
0.71828  -13.349309   -3.570034    -0.439541
-0.000189   -0.123148   -3.766396
0.85914  -13.349309   -3.570034    -0.439541
-0.000189   -0.064467   -3.588727
1.00000  -13.349309   -3.570034    -0.439541
-0.000189   -0.262178   -26.140496

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656    5.694533  111.410951    0.607321
 0.007448    0.681561  202.690945
0.57742    5.694533  111.410951    0.607321
 0.007448    0.426823  159.195924
0.71828    5.694533  111.410951    0.607321
 0.007448    0.172019  129.448440
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1923

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
          T          M2          M3
0.85914    5.694533  111.410951    0.607321
 0.007448    0.137500  117.492872
1.00000    5.694533  111.410951    0.607321
 0.007448    0.428907  122.329110

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656  -16.108807   -86.254507    -0.705901
-0.006449   -0.761698   -33.394188
0.57742  -16.108807   -86.254507    -0.705901
-0.006449   -0.466822    -9.534657
0.71828  -16.108807   -86.254507    -0.705901
-0.006449   -0.195330    -5.737980
0.85914  -16.108807   -86.254507    -0.705901
-0.006449   -0.102275    -4.378712
1.00000  -16.108807   -86.254507    -0.705901
-0.006449   -0.337390   -13.673395

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656    9.125984  100.010926    0.723982
 0.005480    0.813558  188.955558
0.57742    9.125984  100.010926    0.723982
 0.005480    0.506901  150.688131
0.71828    9.125984  100.010926    0.723982
 0.005480    0.203115  122.638613
0.85914    9.125984  100.010926    0.723982
 0.005480    0.136360  109.270580
1.00000    9.125984  100.010926    0.723982
 0.005480    0.484762  121.723942

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656  -14.623332  -117.065497    -0.834756
-0.004817   -0.916465   -82.816608
0.57742  -14.623332  -117.065497    -0.834756
-0.004817   -0.567151   -41.603287
0.71828  -14.623332  -117.065497    -0.834756
-0.004817   -0.233787   -12.484441
0.85914  -14.623332  -117.065497    -0.834756
-0.004817   -0.113798    -4.528076
1.00000  -14.623332  -117.065497    -0.834756
-0.004817   -0.404163   -11.749140

COMB DB-G1-4 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656   10.556718   84.303601    0.865133
 0.004551    0.967686  160.154897
0.57742   10.556718   84.303601    0.865133
 0.004551    0.604819  127.857420
0.71828   10.556718   84.303601    0.865133
 0.004551    0.241827  104.058476
0.85914   10.556718   84.303601    0.865133
 0.004551    0.149170   92.449782
1.00000   10.556718   84.303601    0.865133
 0.004551    0.537996  102.342621

COMB DB-G1-4 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656  -13.456577  -116.581028    -0.934425
-0.004268   -1.030326  -121.744283
0.57742  -13.456577  -116.581028    -0.934425
-0.004268   -0.630065   -79.668119
0.71828  -13.456577  -116.581028    -0.934425
-0.004268   -0.261025   -48.024599
0.85914  -13.456577  -116.581028    -0.934425
-0.004268   -0.131932   -34.309906
1.00000  -13.456577  -116.581028    -0.934425
-0.004268   -0.483857   -32.794312

COMB DB-G2-1 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656    6.842275    9.225164    0.121623
 0.005493    0.135881   50.292893
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1924

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
          T          M2          M3
0.57742    6.842275    9.225164    0.121623
 0.005493    0.084867   50.255611
0.71828    6.842275    9.225164    0.121623
 0.005493    0.033807   62.217466
0.85914    6.842275    9.225164    0.121623
 0.005493    0.074458   91.828736
1.00000    6.842275    9.225164    0.121623
 0.005493    0.187420  132.939074

COMB DB-G2-1 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656   -0.690053  -102.056178    -0.292238
-0.005461   -0.303492   -45.502628
0.57742   -0.690053  -102.056178    -0.292238
-0.005461   -0.181929   -13.171299
0.71828   -0.690053  -102.056178    -0.292238
-0.005461   -0.079980    -1.517166
0.85914   -0.690053  -102.056178    -0.292238
-0.005461   -0.033653    -1.147952
1.00000   -0.690053  -102.056178    -0.292238
-0.005461   -0.068175    -0.798030

COMB DB-G2-2 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656   11.059181    8.417593    0.377574
 0.005174    0.262690   50.028308
0.57742   11.059181    8.417593    0.377574
 0.005174    0.262737   50.657287
0.71828   11.059181    8.417593    0.377574
 0.005174    0.104224   62.953598
0.85914   11.059181    8.417593    0.377574
 0.005174    0.101097   91.010693
1.00000   11.059181    8.417593    0.377574
 0.005174    0.321368  137.925710

COMB DB-G2-2 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656   -1.875617  -140.524610    -0.536164
-0.005484   -0.578937  -110.670224
0.57742   -1.875617  -140.524610    -0.536164
-0.005484   -0.354988   -61.035744
0.71828   -1.875617  -140.524610    -0.536164
-0.005484   -0.149286   -25.701682
0.85914   -1.875617  -140.524610    -0.536164
-0.005484   -0.069342   -14.331778
1.00000   -1.875617  -140.524610    -0.536164
-0.005484   -0.212423    -9.871314

COMB DB-G2-3 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656   10.584615   86.180430    0.653381
 0.004323    0.730875  194.866857
0.57742   10.584615   86.180430    0.653381
 0.004323    0.456832  162.087816
0.71828   10.584615   86.180430    0.653381
 0.004323    0.182613  137.902995
0.85914   10.584615   86.180430    0.653381
 0.004323    0.123471  126.423344
1.00000   10.584615   86.180430    0.653381
 0.004323    0.437477  131.031256

COMB DB-G2-3 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656  -11.139002  -118.868294    -0.756523
-0.004012   -0.832357  -101.329518
0.57742  -11.139002  -118.868294    -0.756523
-0.004012   -0.515701   -58.124024

0.71828  -11.139002  -118.868294    -0.756523
-0.004012   -0.211974   -25.360845
0.85914  -11.139002  -118.868294    -0.756523
-0.004012   -0.102020   -14.849931
1.00000  -11.139002  -118.868294    -0.756523
-0.004012   -0.365311   -10.245863
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1925

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656   12.052272   73.038701    0.828149
 0.003618    0.925722  165.873474
0.57742   12.052272   73.038701    0.828149
 0.003618    0.578365  138.052844
0.71828   12.052272   73.038701    0.828149
 0.003618    0.230871  117.413467
0.85914   12.052272   73.038701    0.828149
 0.003618    0.139272  107.394685
1.00000   12.052272   73.038701    0.828149
 0.003618    0.509240  110.787019

COMB DB-G2-4 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656   -9.519923  -114.132262    -0.888444
-0.003611   -0.981869  -136.831940
0.57742   -9.519923  -114.132262    -0.888444
-0.003611   -0.609770   -94.551204
0.71828   -9.519923  -114.132262    -0.888444
-0.003611   -0.248500   -61.003620
0.85914   -9.519923  -114.132262    -0.888444
-0.003611   -0.125324   -45.833125
1.00000   -9.519923  -114.132262    -0.888444
-0.003611   -0.463700   -35.956547

COMB DB-G3-1 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656    5.504317    2.195049    0.446848
6.96E-06    0.498800    6.385932
0.57742    5.504317    2.195049    0.446848
6.96E-06    0.311370    5.468444
0.71828    5.504317    2.195049    0.446848
6.96E-06    0.123924    4.565246
0.85914    5.504317    2.195049    0.446848
6.96E-06    0.057281    3.710068
1.00000    5.504317    2.195049    0.446848
6.96E-06    0.228217    2.928043

COMB DB-G3-1 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656   -0.145649   -21.342374    -0.407350
-0.000387   -0.455240   -79.277663
0.57742   -0.145649   -21.342374    -0.407350
-0.000387   -0.284376   -70.477944
0.71828   -0.145649   -21.342374    -0.407350
-0.000387   -0.113516   -61.715594
0.85914   -0.145649   -21.342374    -0.407350
-0.000387   -0.063607   -53.053875
1.00000   -0.145649   -21.342374    -0.407350
-0.000387   -0.250924   -44.386428

COMB DB-G3-2 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656    9.159915    3.169114    0.718454
 0.000203    0.801864    9.480244
0.57742    9.159915    3.169114    0.718454
 0.000203    0.500518    8.247486
0.71828    9.159915    3.169114    0.718454
 0.000203    0.199119    7.774903
0.85914    9.159915    3.169114    0.718454
 0.000203    0.094391    8.015367
1.00000    9.159915    3.169114    0.718454
 0.000203    0.370860    9.093091

COMB DB-G3-2 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656   -2.241202   -52.083674    -0.659282
-0.000918   -0.735310  -140.228219
0.57742   -2.241202   -52.083674    -0.659282
-0.000918   -0.458804  -119.351327
0.71828   -2.241202   -52.083674    -0.659282
-0.000918   -0.183036   -99.629807
0.85914   -2.241202   -52.083674    -0.659282
-0.000918   -0.102995   -80.175750
1.00000   -2.241202   -52.083674    -0.659282
-0.000918   -0.403565   -61.842126
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    1926

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656   12.987664    3.474736    0.761325
 0.000564    0.848950   27.675481
0.57742   12.987664    3.474736    0.761325
 0.000564    0.529630   28.270894
0.71828   12.987664    3.474736    0.761325
 0.000564    0.210198   30.907554
0.85914   12.987664    3.474736    0.761325
 0.000564    0.113570   38.338367
1.00000   12.987664    3.474736    0.761325
 0.000564    0.447521   61.807915

COMB DB-G3-3 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656   -1.198696  -106.395213    -0.798806
-0.001298   -0.892693  -170.441098
0.57742   -1.198696  -106.395213    -0.798806
-0.001298   -0.557894  -126.759969
0.71828   -1.198696  -106.395213    -0.798806
-0.001298   -0.224124   -85.308932
0.85914   -1.198696  -106.395213    -0.798806
-0.001298   -0.110003   -66.771051
1.00000   -1.198696  -106.395213    -0.798806
-0.001298   -0.428435   -53.950433

COMB DB-G3-4 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.43656   13.805126   55.340477    0.819779
 0.003907    0.915898  143.097619
0.57742   13.805126   55.340477    0.819779
 0.003907    0.572057  122.920763
0.71828   13.805126   55.340477    0.819779
 0.003907    0.228099  111.095145
0.85914   13.805126   55.340477    0.819779
 0.003907    0.142323  111.130217
1.00000   13.805126   55.340477    0.819779
 0.003907    0.512167  124.285365

COMB DB-G3-4 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.43656   -6.266279  -122.110191    -0.889088
-0.004199   -0.980069  -152.085020
0.57742   -6.266279  -122.110191    -0.889088
-0.004199   -0.607801  -107.474646
```

```
0.71828    -6.266279  -122.110191    -0.889088
-0.004199    -0.248307   -73.011408
0.85914    -6.266279  -122.110191    -0.889088
-0.004199    -0.126310   -56.760377
1.00000    -6.266279  -122.110191    -0.889088
-0.004199    -0.459588   -45.675347

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656    0.723228   77.151116    0.621547
 0.000878    0.689073  101.902142
0.57742    0.723228   77.151116    0.621547
 0.000878    0.428578   69.827560
0.71828    0.723228   77.151116    0.621547
 0.000878    0.168848   38.125957
0.85914    0.723228   77.151116    0.621547
 0.000878    0.074923    8.012548
1.00000    0.723228   77.151116    0.621547
 0.000878    0.316287    2.439619

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -13.508033   -3.930287   -0.579616
-0.000172    -0.656506   -7.550532
0.57742   -13.508033   -3.930287   -0.579616
-0.000172    -0.413751   -6.171928
0.71828   -13.508033   -3.930287   -0.579616
-0.000172    -0.171784   -5.705463
0.85914   -13.508033   -3.930287   -0.579616
-0.000172    -0.094927   -6.674358
1.00000   -13.508033   -3.930287   -0.579616
-0.000172    -0.354477   -31.135526
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                1927

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656    6.627578  106.620562    0.788070
 0.007311    0.876942  196.023425
0.57742    6.627578  106.620562    0.788070
 0.007311    0.546966  156.768785
0.71828    6.627578  106.620562    0.788070
 0.007311    0.217942  130.596326
0.85914    6.627578  106.620562    0.788070
 0.007311    0.164455  120.778481
1.00000    6.627578  106.620562    0.788070
 0.007311    0.567193  128.532302

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -15.757728  -82.485650   -0.965060
-0.006424    -1.057432   -36.928575
0.57742   -15.757728  -82.485650   -0.965060
-0.006424    -0.653688   -10.823532
0.71828   -15.757728  -82.485650   -0.965060
-0.006424    -0.272518    -6.965912
0.85914   -15.757728  -82.485650   -0.965060
-0.006424    -0.142406    -5.742270
1.00000   -15.757728  -82.485650   -0.965060
-0.006424    -0.464145   -19.735675

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656    9.323593   95.395938    0.978206
 0.005545    1.087348  179.084046
0.57742    9.323593   95.395938    0.978206
 0.005545    0.677789  144.105526
0.71828    9.323593   95.395938    0.978206
 0.005545    0.268986  120.173446
0.85914    9.323593   95.395938    0.978206
 0.005545    0.194126  115.962104
1.00000    9.323593   95.395938    0.978206
 0.005545    0.708027  132.806272

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -14.470778 -110.341930   -1.230906
-0.004904    -1.360198   -77.197291
0.57742   -14.470778 -110.341930   -1.230906
-0.004904    -0.844696   -37.603612
0.71828   -14.470778 -110.341930   -1.230906
-0.004904    -0.345917   -14.657955
0.85914   -14.470778 -110.341930   -1.230906
-0.004904    -0.161746    -6.316153
1.00000   -14.470778 -110.341930   -1.230906
-0.004904    -0.565402   -17.630530

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   10.337465   80.618182    1.188618
 0.004605    1.321431  152.469476
0.57742   10.337465   80.618182    1.188618
 0.004605    0.822430  122.386312
0.71828   10.337465   80.618182    1.188618
 0.004605    0.325771  102.482621
0.85914   10.337465   80.618182    1.188618
 0.004605    0.220092   98.444151
1.00000   10.337465   80.618182    1.188618
 0.004605    0.820580  111.853248

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656  -13.272912 -112.623778   -1.436447
-0.004296    -1.591797   -120.993451
0.57742  -13.272912 -112.623778   -1.436447
-0.004296    -0.990002   -79.535854
0.71828  -13.272912 -112.623778   -1.436447
-0.004296    -0.401999   -52.052429
0.85914  -13.272912 -112.623778   -1.436447
-0.004296    -0.190661   -37.065288
1.00000  -13.272912 -112.623778   -1.436447
-0.004296    -0.682250   -38.266754
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                1928

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656    7.050755    9.474948    0.164833
 0.004626    0.183194   52.119734
0.57742    7.050755    9.474948    0.164833
 0.004626    0.114098   54.169978
0.71828    7.050755    9.474948    0.164833
 0.004626    0.045253   67.907330
0.85914    7.050755    9.474948    0.164833
 0.004626    0.089876   96.550167
1.00000    7.050755    9.474948    0.164833
 0.004626    0.258724  130.957512

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -0.705125  -88.693904   -0.410398
-0.004568    -0.432820   -42.111877
0.57742   -0.705125  -88.693904   -0.410398
-0.004568    -0.260875   -12.600662

0.71828    -0.705125  -88.693904    -0.410398
-0.004568    -0.104335   -1.654564
0.85914    -0.705125  -88.693904    -0.410398
-0.004568    -0.041854   -1.276795
1.00000    -0.705125  -88.693904    -0.410398
-0.004568    -0.105675   -0.947666

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   10.402977    8.954984    0.550613
 0.004485    0.611099   49.907827
0.57742   10.402977    8.954984    0.550613
 0.004485    0.380478   51.430617
0.71828   10.402977    8.954984    0.550613
 0.004485    0.149765   64.252169
0.85914   10.402977    8.954984    0.550613
 0.004485    0.150339   97.248283
1.00000   10.402977    8.954984    0.550613
 0.004485    0.508460  138.941064

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -1.882872  -125.752039   -0.857455
-0.004682    -0.933172  -101.209415
0.57742   -1.882872  -125.752039   -0.857455
-0.004682    -0.573988   -55.343629
0.71828   -1.882872  -125.752039   -0.857455
-0.004682    -0.214709   -25.924070
0.85914   -1.882872  -125.752039   -0.857455
-0.004682    -0.099471   -14.521954
1.00000   -1.882872  -125.752039   -0.857455
-0.004682    -0.322577    -9.755723

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   10.247726   82.995580    0.886337
 0.003487    0.989104  191.237991
0.57742   10.247726   82.995580    0.886337
 0.003487    0.617646  160.638263
0.71828   10.247726   82.995580    0.886337
 0.003487    0.246035  138.294611
0.85914   10.247726   82.995580    0.886337
 0.003487    0.182083  131.839521
1.00000   10.247726   82.995580    0.886337
 0.003487    0.676598  133.377515

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656  -10.507830 -105.060850   -1.185817
-0.003180    -1.314693   -92.668374
0.57742  -10.507830 -105.060850   -1.185817
-0.003180    -0.811057   -53.702584
0.71828  -10.507830 -105.060850   -1.185817
-0.003180    -0.330050   -26.236139
0.85914  -10.507830 -105.060850   -1.185817
-0.003180    -0.139376   -15.549101
1.00000  -10.507830 -105.060850   -1.185817
-0.003180    -0.353992   -10.614594
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                1929

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   11.635415   70.708887    1.144094
 0.002924    1.276460  163.959026
0.57742   11.635415   70.708887    1.144094
 0.002924    0.796886  137.778212
0.71828   11.635415   70.708887    1.144094
 0.002924    0.316701  118.501063
0.85914   11.635415   70.708887    1.144094
 0.002924    0.217840  112.571216
1.00000   11.635415   70.708887    1.144094
 0.002924    0.823545  113.378876

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -9.054117 -105.240748   -1.449943
-0.002888    -1.610043  -136.185670
0.57742   -9.054117 -105.240748   -1.449943
-0.002888    -1.001750   -96.354274
0.71828   -9.054117 -105.240748   -1.449943
-0.002888    -0.402332   -66.205884
0.85914   -9.054117 -105.240748   -1.449943
-0.002888    -0.173040   -49.905175
1.00000   -9.054117 -105.240748   -1.449943
-0.002888    -0.648055   -38.762217

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656    5.656922    2.720692    0.643292
4.07E-06    0.717386    8.137957
0.57742    5.656922    2.720692    0.643292
4.07E-06    0.447497    7.009364
0.71828    5.656922    2.720692    0.643292
4.07E-06    0.177201    5.878118
0.85914    5.656922    2.720692    0.643292
4.07E-06    0.109449    4.786477
1.00000    5.656922    2.720692    0.643292
4.07E-06    0.423950    3.759379

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -0.157344  -24.562497   -0.750086
-0.000337    -0.833490   -89.753819
0.57742   -0.157344  -24.562497   -0.750086
-0.000337    -0.519072   -79.526487
0.71828   -0.157344  -24.562497   -0.750086
-0.000337    -0.204632   -69.341701
0.85914   -0.157344  -24.562497   -0.750086
-0.000337    -0.091423   -59.251911
1.00000   -0.157344  -24.562497   -0.750086
-0.000337    -0.362075   -49.221960

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656    8.715548    3.775832    1.047821
0.000131    1.166702   11.523255
0.57742    8.715548    3.775832    1.047821
0.000131    0.726883   10.181682
0.71828    8.715548    3.775832    1.047821
0.000131    0.286454    9.137281
0.85914    8.715548    3.775832    1.047821
0.000131    0.171525    8.639821
1.00000    8.715548    3.775832    1.047821
0.000131    0.674977    9.115285

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -2.195731   -56.004759   -1.196321
-0.000747    -1.331019   -153.540792
0.57742   -2.195731   -56.004759   -1.196321
-0.000747    -0.829651   -130.625728
0.71828   -2.195731   -56.004759   -1.196321
-0.000747    -0.328285   -108.379779
0.85914   -2.195731   -56.004759   -1.196321
-0.000747    -0.156900    -87.027019
1.00000   -2.195731   -56.004759   -1.196321
-0.000747    -0.593229    -66.945270
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                1930

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   12.221276    3.839866    1.102606
 0.000244    1.226838   26.160763
0.57742   12.221276    3.839866    1.102606
 0.000244    0.764156   27.066500
0.71828   12.221276    3.839866    1.102606
 0.000244    0.301164   31.165738
0.85914   12.221276    3.839866    1.102606
 0.000244    0.206876   44.818817
1.00000   12.221276    3.839866    1.102606
 0.000244    0.790729   66.439843

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -1.395396  -101.158791   -1.396108
-0.000832    -1.550510   -171.598498
0.57742   -1.395396  -101.158791   -1.396108
-0.000832    -0.965435   -131.258410
0.71828   -1.395396  -101.158791   -1.396108
-0.000832    -0.380408   -93.763472
0.85914   -1.395396  -101.158791   -1.396108
-0.000832    -0.160609    -74.024324
1.00000   -1.395396  -101.158791   -1.396108
-0.000832    -0.621223   -58.896765

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   13.493548   54.452813    1.154552
 0.002929    1.287189  145.082176
0.57742   13.493548   54.452813    1.154552
 0.002929    0.803052  126.044553
0.71828   13.493548   54.452813    1.154552
 0.002929    0.318502  114.362047
0.85914   13.493548   54.452813    1.154552
 0.002929    0.234942  116.357202
1.00000   13.493548   54.452813    1.154552
 0.002929    0.862570  124.924641

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656   -6.031244  -111.179998   -1.507448
-0.003146    -1.667156   -153.492563
0.57742   -6.031244  -111.179998   -1.507448
-0.003146    -1.035179   -111.233400
0.71828   -6.031244  -111.179998   -1.507448
-0.003146    -0.412200    -80.175170
0.85914   -6.031244  -111.179998   -1.507448
-0.003146    -0.175585    -63.123509
1.00000   -6.031244  -111.179998   -1.507448
-0.003146    -0.655383    -50.100771

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   13.805126  111.410951    0.865133
 0.007448    0.967686  202.690945
0.57742   13.805126  111.410951    0.865133
 0.007448    0.604819  162.087816
0.71828   13.805126  111.410951    0.865133
 0.007448    0.241827  137.902995
0.85914   13.805126  111.410951    0.865133
 0.007448    0.149170  126.423344
1.00000   13.805126  111.410951    0.865133
 0.007448    0.537996  137.925710

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656  -16.108807 -140.524610   -0.934425
-0.006449    -1.030326   -170.441098
0.57742  -16.108807 -140.524610   -0.934425
-0.006449    -0.639065   -126.759969
0.71828  -16.108807 -140.524610   -0.934425
-0.006449    -0.261025    -99.629807
0.85914  -16.108807 -140.524610   -0.934425
-0.006449    -0.131932    -80.175750
1.00000  -16.108807 -140.524610   -0.934425
-0.006449    -0.483857    -61.842126
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                1931

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   13.493548  106.620562    1.188618
 0.007311    1.321431  196.023425
0.57742   13.493548  106.620562    1.188618
 0.007311    0.822430  160.638263
0.71828   13.493548  106.620562    1.188618
 0.007311    0.325771  138.294611
0.85914   13.493548  106.620562    1.188618
 0.007311    0.234942  131.839521
1.00000   13.493548  106.620562    1.188618
 0.007311    0.862570  138.941064

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656  -15.757728  -125.752039   -1.507448
-0.006424    -1.667156   -171.598498
0.57742  -15.757728  -125.752039   -1.507448
-0.006424    -1.035179   -131.258410
0.71828  -15.757728  -125.752039   -1.507448
-0.006424    -0.412200   -108.379779
0.85914  -15.757728  -125.752039   -1.507448
-0.006424    -0.190661    -87.027019
1.00000  -15.757728  -125.752039   -1.507448
-0.006424    -0.682250    -66.945270

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   13.805126  111.410951    1.188618
 0.007448    1.321431  202.690945
0.57742   13.805126  111.410951    1.188618
 0.007448    0.823430  162.087816
0.71828   13.805126  111.410951    1.188618
 0.007448    0.325771  138.294611
0.85914   13.805126  111.410951    1.188618
 0.007448    0.234942  131.839521
1.00000   13.805126  111.410951    1.188618
 0.007448    0.862570  138.941064

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656  -16.108807 -140.524610   -1.507448
-0.006449    -1.667156   -171.598498
0.57742  -16.108807 -140.524610   -1.507448
-0.006449    -1.035179   -131.258410
0.71828  -16.108807 -140.524610   -1.507448
-0.006449    -0.412200   -108.379779
0.85914  -16.108807 -140.524610   -1.507448
-0.006449    -0.190661    -87.027019
1.00000  -16.108807 -140.524610   -1.507448
-0.006449    -0.682250    -66.945270

COMB DESIGN ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43656   13.805126  111.410951    1.188618
 0.007448    1.321431  202.690945
0.57742   13.805126  111.410951    1.188618
 0.007448    0.823430  162.087816
0.71828   13.805126  111.410951    1.188618
 0.007448    0.325771  138.294611
0.85914   13.805126  111.410951    1.188618
 0.007448    0.234942  131.839521
1.00000   13.805126  111.410951    1.188618
 0.007448    0.862570  138.941064

COMB DESIGN ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43656  -16.108807 -140.524610   -1.507448
-0.006449    -1.667156   -171.598498
0.57742  -16.108807 -140.524610   -1.507448
-0.006449    -1.035179   -131.258410
0.71828  -16.108807 -140.524610   -1.507448
-0.006449    -0.412200   -108.379779
0.85914  -16.108807 -140.524610   -1.507448
-0.006449    -0.190661    -87.027019
1.00000  -16.108807 -140.524610   -1.507448
-0.006449    -0.682250    -66.945270
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                1932

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM     167 ================== LENGTH =    2.976879

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.561818   79.061393    0.492710
 0.000948    0.279786    2.193668
0.14083    0.561818   79.061393    0.492710
 0.000948    0.073488    2.908558
0.28165    0.561818   79.061393    0.492710
 0.000948    0.123273    3.724700
0.42248    0.561818   79.061393    0.492710
 0.000948    0.312900    4.649312
0.56330    0.561818   79.061393    0.492710
 0.000948    0.502537    5.737364

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -13.307563   -3.530370   -0.452359
-7.21E-06    -0.256020   -26.174423
0.14083   -13.307563   -3.530370   -0.452359
-7.21E-06    -0.066369   -59.026320
0.28165   -13.307563   -3.530370   -0.452359
-7.21E-06    -0.133329   -92.087746
0.42248   -13.307563   -3.530370   -0.452359
-7.21E-06    -0.339891   -125.167153
0.56330   -13.307563   -3.530370   -0.452359
-7.21E-06    -0.546445   -158.273907

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.245932  177.029433    0.637957
 0.007501    0.368962  122.704580
0.14083    4.245932  177.029433    0.637957
 0.007501    0.125915   97.898174
0.28165    4.245932  177.029433    0.637957
 0.007501    0.196898   73.377320
0.42248    4.245932  177.029433    0.637957
 0.007501    0.471610   67.072245
0.56330    4.245932  177.029433    0.637957
 0.007501    0.770882   73.540002

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -20.011846   -25.232496   -0.714613
-0.006163    -0.429102   -13.712928
0.14083   -20.011846   -25.232496   -0.714613
-0.006163    -0.129867   -55.477382
0.28165   -20.011846   -25.232496   -0.714613
-0.006163    -0.172099   -97.501786
0.42248   -20.011846   -25.232496   -0.714613
-0.006163    -0.439606  -141.722736
0.56330   -20.011846   -25.232496   -0.714613
-0.006163    -0.707051  -207.417880

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.232195  144.510191    0.745717
 0.005493    0.425964  121.948596
0.14083    8.232195  144.510191    0.745717
 0.005493    0.128409  129.571570
0.28165    8.232195  144.510191    0.745717
 0.005493    0.238902  137.408100
0.42248    8.232195  144.510191    0.745717
 0.005493    0.584565  157.625330
0.56330    8.232195  144.510191    0.745717
 0.005493    0.946912  186.640546

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -17.249611   -76.013316   -0.864824
-0.004190    -0.504409   -11.736418
0.14083   -17.249611   -76.013316   -0.864824
-0.004190    -0.142017   -50.223220
0.28165   -17.249611   -76.013316   -0.864824
-0.004190    -0.203447   -88.820259
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                1933

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.42248   -17.249611   -76.013316   -0.864824
-0.004190    -0.516179   -128.874116
0.56330   -17.249611   -76.013316   -0.864824
-0.004190    -0.628777   -183.520297

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    9.850926  121.227653    0.883441
 0.004612    0.501807  102.533054
0.14083    9.850926  121.227653    0.883441
 0.004612    0.143916  109.102835
0.28165    9.850926  121.227653    0.883441
 0.004612    0.265522  118.116048
0.42248    9.850926  121.227653    0.883441
 0.004612    0.654260  139.026407
0.56330    9.850926  121.227653    0.883441
 0.004612    1.056828  170.360927

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -15.634828   -82.720840   -0.960683
-0.003928    -0.555042   -32.835293
0.14083   -15.634828   -82.720840   -0.960683
-0.003928    -0.152387   -57.426750
0.28165   -15.634828   -82.720840   -0.960683
-0.003928    -0.242352   -83.230355
0.42248   -15.634828   -82.720840   -0.960683
```

```
-0.003928   -0.612820  -111.351129
 0.56330   -15.634828   -82.720840    -0.960683
-0.003928   -0.983158  -153.628954

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    5.675666   64.735117    0.123060
 0.005308   0.074460  133.236816
 0.14083    5.675666   64.735117    0.123060
 0.005308   0.041580  125.639586
 0.28165    5.675666   64.735117    0.123060
 0.005308   0.083202  118.357136
 0.42248    5.675666   64.735117    0.123060
 0.005308   0.185390  126.236774
 0.56330    5.675666   64.735117    0.123060
 0.005308   0.308162  144.474581

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -4.008040  -51.291714   -0.293460
-0.005153   -0.185306   -0.793955
 0.14083   -4.008040  -51.291714   -0.293460
-0.005153   -0.062548   -0.618549
 0.28165   -4.008040  -51.291714   -0.293460
-0.005153   -0.033875   -0.551781
 0.42248   -4.008040  -51.291714   -0.293460
-0.005153   -0.085510   -2.337070
 0.56330   -4.008040  -51.291714   -0.293460
-0.005153   -0.137098  -22.086376

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   10.045255   60.079567    0.376085
 0.005168   0.215475  138.185617
 0.14083   10.045255   60.079567    0.376085
 0.005168   0.075097  146.337240
 0.28165   10.045255   60.079567    0.376085
 0.005168   0.154998  157.691918
 0.42248   10.045255   60.079567    0.376085
 0.005168   0.367279  183.626410
 0.56330   10.045255   60.079567    0.376085
 0.005168   0.598647  219.848930

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -4.942494  -93.712899   -0.552460
-0.005023   -0.329031   -9.872815
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1934

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
 0.14083   -4.942494  -93.712899   -0.552460
-0.005023   -0.097632   -5.632008
 0.28165   -4.942494  -93.712899   -0.552460
-0.005023   -0.104600   -2.898207
 0.42248   -4.942494  -93.712899   -0.552460
-0.005023   -0.262404   -3.292730
 0.56330   -4.942494  -93.712899   -0.552460
-0.005023   -0.420044  -21.407524

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    9.894880  122.109072    0.667804
 0.004514   0.380239  131.174221
 0.14083    9.894880  122.109072    0.667804
 0.004514   0.112506  126.713011
 0.28165    9.894880  122.109072    0.667804
 0.004514   0.217096  141.637308
 0.42248    9.894880  122.109072    0.667804
 0.004514   0.532231  167.660193
 0.56330    9.894880  122.109072    0.667804
 0.004514   0.860870  201.098107

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -13.258078  -85.916759   -0.784327
-0.003711   -0.455249  -10.242302
 0.14083  -13.258078  -85.916759   -0.784327
-0.003711   -0.126559  -17.635818
 0.28165  -13.258078  -85.916759   -0.784327
-0.003711   -1.82998   -48.449626
 0.42248  -13.258078  -85.916759   -0.784327
-0.003711   -0.463114  -81.753814
 0.56330  -13.258078  -85.916759   -0.784327
-0.003711   -0.743049 -127.804334

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   11.509609  103.141883    0.840686
 0.003767   0.476226  110.910312
 0.14083   11.509609  103.141883    0.840686
 0.003767   0.13994   106.606388
 0.28165   11.509609  103.141883    0.840686
 0.003767   0.253091  118.001496
 0.42248   11.509609  103.141883    0.840686
 0.003767   0.625323  138.979418
 0.56330   11.509609  103.141883    0.840686
 0.003767   1.008872  170.200912

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -11.295381  -86.595479   -0.915243
-0.003535   -0.526633   -5.964734
 0.14083  -11.295381  -86.595479   -0.915243
-0.003535   -0.142982  -36.046711
 0.28165  -11.295381  -86.595479   -0.915243
-0.003535   -0.231426  -55.445058
 0.42248  -11.295381  -86.595479   -0.915243
-0.003535   -0.583971  -76.713036
 0.56330  -11.295381  -86.595479   -0.915243
-0.003535   -0.936395 -108.784168

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    5.555940   2.269400    0.447518
1.54E-05    0.250956   2.933195
 0.14083    5.555940   2.269400    0.447518
1.54E-05    0.063322   2.278572
 0.28165    5.555940   2.269400    0.447518
1.54E-05    0.113959   1.799203
 0.42248    5.555940   2.269400    0.447518
1.54E-05    0.287358   1.488574
 0.56330    5.555940   2.269400    0.447518
1.54E-05    0.460761   1.866177
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1935

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -0.150593  -21.424090   -0.413632
-0.000686   -0.232852  -44.402758
 0.14083   -0.150593  -21.424090   -0.413632
-0.000686   -0.059364  -35.979188
 0.28165   -0.150593  -21.424090   -0.413632
-0.000686   -0.124261  -27.691333
 0.42248   -0.150593  -21.424090   -0.413632
-0.000686   -0.311876  -19.502334
 0.56330   -0.150593  -21.424090   -0.413632
-0.000686   -0.499483  -11.416356

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    9.211260   5.308355    0.718840
 0.000371   0.403122   9.109752
 0.14083    9.211260   5.308356    0.718840
 0.000371   0.102396  11.734369
 0.28165    9.211260   5.308356    0.718840
 0.000371   0.184169  19.090602
 0.42248    9.211260   5.308356    0.718840
 0.000371   0.462943  27.872443
 0.56330    9.211260   5.308356    0.718840
 0.000371   0.742519  39.373115

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -2.367689  -50.648049   -0.666926
-0.001389   -0.375876  -61.870088
 0.14083   -2.367689  -50.648049   -0.666926
-0.001389   -0.096199  -46.609802
 0.28165   -2.367689  -50.648049   -0.666926
-0.001389   -0.199743  -33.269692
 0.42248   -2.367689  -50.648049   -0.666926
-0.001389   -0.501138  -21.940175
 0.56330   -2.367689  -50.648049   -0.666926
-0.001389   -0.802481  -12.616696

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   13.092588   6.875156    0.756275
 0.000526   0.423420  61.797654
 0.14083   13.092588   6.875156    0.756275
 0.000526   0.107377  89.635090
 0.28165   13.092588   6.875156    0.756275
 0.000526   0.229432  120.190499
 0.42248   13.092588   6.875156    0.756275
 0.000526   0.574513  152.277229
 0.56330   13.092588   6.875156    0.756275
 0.000526   0.920815  187.105023

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -1.384896 -104.195930   -0.826099
-0.001206   -0.464532  -53.970284
 0.14083   -1.384896 -104.195930   -0.826099
-0.001206   -0.018065  -41.218164
 0.28165   -1.384896 -104.195930   -0.826099
-0.001206   -0.210938  -29.730059
 0.42248   -1.384896 -104.195930   -0.826099
-0.001206   -0.528079  -19.662684
 0.56330   -1.384896 -104.195930   -0.826099
-0.001206   -0.845103  -11.643015

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   13.147744   91.121585    0.828161
 0.004082   0.463029  124.450424
 0.14083   13.147744   91.121585    0.828161
 0.004082   0.133846  115.690024
 0.28165   13.147744   91.121585    0.828161
 0.004082   0.252988  122.447736
 0.42248   13.147744   91.121585    0.828161
 0.004082   0.622455  141.130852
 0.56330   13.147744   91.121585    0.828161
 0.004082   1.005282  169.181256
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1936

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -8.385191   -89.483395   -0.913580
-0.004177   -0.527572   -45.687738
 0.14083   -8.385191   -89.483395   -0.913580
-0.004177   -0.144637   -34.763146
 0.28165   -8.385191   -89.483395   -0.913580
-0.004177   -0.228683   -42.694579
 0.42248   -8.385191   -89.483395   -0.913580
-0.004177   -0.575965   -55.184636
 0.56330   -8.385191   -89.483395   -0.913580
-0.004177   -0.923127   -80.152490

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    0.727972   76.833146    0.623274
 0.000855   0.355033   2.440216
 0.14083    0.727972   76.833146    0.623274
 0.000855   0.094096   3.176770
 0.28165    0.727972   76.833146    0.623274
 0.000855   0.168170   3.876320
 0.42248    0.727972   76.833146    0.623274
 0.000855   0.451005   4.963914
 0.56330    0.727972   76.833146    0.623274
 0.000855   0.733684   6.428165

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -13.480113   -3.925155   -0.676131
-4.23E-06   -0.399882   -31.169475
 0.14083  -13.480113   -3.925155   -0.676131
-4.23E-06   -0.115972   -62.531890
 0.28165  -13.480113   -3.925155   -0.676131
-4.23E-06   -0.168691   -93.963230
 0.42248  -13.480113   -3.925155   -0.676131
-4.23E-06   -0.429028  -125.681232
 0.56330  -13.480113   -3.925155   -0.676131
-4.23E-06   -0.690209  -157.681633

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    4.394691  169.609807    0.812090
 0.007415   0.492193  128.580679
 0.14083    4.394691  169.609807    0.812090
 0.007415   0.158729  102.931726
 0.28165    4.394691  169.609807    0.812090
 0.007415   0.271238   77.638864
 0.42248    4.394691  169.609807    0.812090
 0.007415   0.683859   69.326667
 0.56330    4.394691  169.609807    0.812090
 0.007415   1.118079   75.241112

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -19.551728  -23.020470   -1.040344
-0.006196   -0.629487  -19.774883
 0.14083  -19.551728  -23.020470   -1.040344
-0.006196   -0.196926  -58.010206
 0.28165  -19.551728  -23.020470   -1.040344
-0.006196   -0.457510  -96.523446
 0.42248  -19.551728  -23.020470   -1.040344
-0.006196   -0.556523  -137.870407
 0.56330  -19.551728  -23.020470   -1.040344
-0.006196   -0.895745  -205.598013

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    7.817608  140.001839    0.990889
 0.005602   0.580888  132.814154
 0.14083    7.817608  140.001839    0.990889
 0.005602   0.170725  136.016928
 0.28165    7.817608  140.001839    0.990889
 0.005602   0.346378  139.582641
 0.42248    7.817608  140.001839    0.990889
 0.005602   0.870559  155.343842
 0.56330    7.817608  140.001839    0.990889
 0.005602   1.409749  181.308991
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1937

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -17.153219  -68.462808   -1.290902
-0.004519   -0.757126  -17.666629
 0.14083   -17.153219  -68.462808   -1.290902
-0.004519   -0.219433  -52.766538
 0.28165   -17.153219  -68.462808   -1.290902
-0.004519   -0.269082  -88.008705
 0.42248   -17.153219  -68.462808   -1.290902
-0.004519   -0.683347  -125.378081
 0.56330   -17.153219  -68.462808   -1.290902
-0.004519   -1.097660  -181.542354

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    9.120881  117.642083    1.190986
 0.004690   0.687088  111.865310
 0.14083    9.120881  117.642083    1.190986
 0.004690   0.192869  114.603080
 0.28165    9.120881  117.642083    1.190986
 0.004690   0.403201  119.752923
 0.42248    9.120881  117.642083    1.190986
 0.004690   1.012170  136.769162
 0.56330    9.120881  117.642083    1.190986
 0.004690   1.633613  165.762826

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -15.500351  -78.019293   -1.486243
-0.004123   -0.860740  -38.312297
 0.14083   -15.500351  -78.019293   -1.486243
-0.004123   -0.241578  -59.605233
 0.28165   -15.500351  -78.019293   -1.486243
-0.004123   -0.326869  -82.296486
 0.42248   -15.500351  -78.019293   -1.486243
-0.004123   -0.825667  -108.025468
 0.56330   -15.500351  -78.019293   -1.486243
-0.004123   -1.323871  -152.281500

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    5.537938   54.004547    0.164841
 0.004484   0.113225  130.372567
 0.14083    5.537938   54.004547    0.164841
 0.004484   0.050418  126.718415
 0.28165    5.537938   54.004547    0.164841
 0.004484   0.107500  122.591664
 0.42248    5.537938   54.004547    0.164841
 0.004484   0.241975  130.052809
 0.56330    5.537938   54.004547    0.164841
 0.004484   0.392610  147.229540

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -3.396017  -47.400745   -0.361240
-0.004342   -0.216334   -0.945640
 0.14083   -3.396017  -47.400745   -0.361240
-0.004342   -0.069020   -0.763174
 0.28165   -3.396017  -47.400745   -0.361240
-0.004342   -0.045077   -0.690123
 0.42248   -3.396017  -47.400745   -0.361240
-0.004342   -0.113252   -2.307596
 0.56330   -3.396017  -47.400745   -0.361240
-0.004342   -0.181495  -22.373492

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    9.013791   51.443380    0.539323
 0.004501   0.318955  138.943170
 0.14083    9.013791   51.443380    0.539323
 0.004501   0.099155  147.838836
 0.28165    9.013791   51.443380    0.539323
 0.004501   0.233886  160.003173
 0.42248    9.013791   51.443380    0.539323
 0.004501   0.557613  184.107960
 0.56330    9.013791   51.443380    0.539323
 0.004501   0.896713  217.781459
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1938

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -4.440756  -86.526054   -0.811335
-0.004328   -0.467675   -9.761777
 0.14083   -4.440756  -86.526054   -0.811335
-0.004328   -0.132211   -5.546436
 0.28165   -4.440756  -86.526054   -0.811335
-0.004328   -0.150614   -3.323576
 0.42248   -4.440756  -86.526054   -0.811335
-0.004328   -0.375980   -3.659763
 0.56330   -4.440756  -86.526054   -0.811335
-0.004328   -0.601031   -22.516011

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    9.379352  109.958537    0.898955
 0.003704   0.518250  133.335024
 0.14083    9.379352  109.958537    0.898955
 0.003704   0.146418  127.412864
 0.28165    9.379352  109.958537    0.898955
 0.003704   0.332623  143.067470
 0.42248    9.379352  109.958537    0.898955
 0.003704   0.826667  167.968216
 0.56330    9.379352  109.958537    0.898955
 0.003704   1.330065  199.468239

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -12.122884  -79.764653   -1.203250
-0.002967   -0.689719  -10.615554
 0.14083   -12.122884  -79.764653   -1.203250
-0.002967   -0.189696  -15.096029
 0.28165   -12.122884  -79.764653   -1.203250
-0.002967   -0.246809  -43.340288
 0.42248   -12.122884  -79.764653   -1.203250
-0.002967   -0.623167  -74.846938
 0.56330   -12.122884  -79.764653   -1.203250
-0.002967   -0.999173  -118.837086

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   10.940992   93.360400    1.153254
 0.003094   0.658116  113.348523
 0.14083   10.940992   93.360400    1.153254
 0.003094   0.178363  107.696302
 0.28165   10.940992   93.360400    1.153254
 0.003094   0.405669  119.381727
 0.42248   10.940992   93.360400    1.153254
 0.003094   1.009637  139.004068
 0.56330   10.940992   93.360400    1.153254
 0.003094   1.621444  168.439189

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -10.411443  -84.085555   -1.461702
-0.002871   -0.831011  -38.777239
 0.14083  -10.411443  -84.085555   -1.461702
-0.002871   -0.221959  -35.392785
 0.28165  -10.411443  -84.085555   -1.461702
-0.002871   -0.317821  -51.402922
 0.42248  -10.411443  -84.085555   -1.461702
-0.002871   -0.801374  -70.005747
 0.56330  -10.411443  -84.085555   -1.461702
-0.002871   -1.284173 -101.697919

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    5.708199   2.764608    0.639751
1.16E-05    0.358237   3.766870
 0.14083    5.708199   2.764608    0.639751
1.16E-05    0.089070   2.942431
 0.28165    5.708199   2.764608    0.639751
1.16E-05    0.207030   2.246390
 0.42248    5.708199   2.764608    0.639751
1.16E-05    0.513856   1.660436
 0.56330    5.708199   2.764608    0.639751
1.16E-05    0.820591   1.939164
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1939

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -0.160415  -24.680948   -0.731802
-0.000622   -0.406087  -49.241484
 0.14083   -0.160415  -24.680948   -0.731802
-0.000622   -0.099394  -39.358943
 0.28165   -0.160415  -24.680948   -0.731802
-0.000622   -0.177807  -29.592368
 0.42248   -0.160415  -24.680948   -0.731802
-0.000622   -0.446192  -19.916300
 0.56330   -0.160415  -24.680948   -0.731802
-0.000622   -0.714645  -10.918337

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    8.759588   5.098275    1.031247
 0.000289   0.575189   9.126519
 0.14083    8.759588   5.098275    1.031247
 0.000289   0.143525  11.989494
 0.28165    8.759588   5.098275    1.031247
 0.000289   0.331501  19.765692
 0.42248    8.759588   5.098275    1.031247
 0.000289   0.824942  29.129807
 0.56330    8.759588   5.098275    1.031247
 0.000289   1.318994  40.665579

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -2.277158  -55.179570   -1.178471
-0.001159   -0.656740   -66.981251
 0.14083   -2.277158  -55.179570   -1.178471
-0.001159   -0.164466   -49.599853
 0.28165   -2.277158  -55.179570   -1.178471
-0.001159   -0.288511   -35.104976
 0.42248   -2.277158  -55.179570   -1.178471
-0.001159   -0.412704   -22.070558
 0.56330   -2.277158  -55.179570   -1.178471
-0.001159   -1.153790   -11.935255

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   12.388582   3.879632    1.082091
 0.000202   0.602458  66.417319
 0.14083   12.388582   3.879632    1.082091
 0.000202   0.150580  92.528244
 0.28165   12.388582   3.879632    1.082091
 0.000202   0.250549  122.042203
 0.42248   12.388582   3.879632    1.082091
 0.000202   0.951347  152.518550
 0.56330   12.388582   3.879632    1.082091
 0.000202   1.517111  184.742720

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -1.392500 -101.956358   -1.350567
-0.000805   -0.747706   -58.926041
 0.14083   -1.392500 -101.956358   -1.350567
-0.000805   -0.183688   -44.201677
 0.28165   -1.392500 -101.956358   -1.350567
-0.000805   -0.302729   -31.570243
 0.42248   -1.392500 -101.956358   -1.350567
-0.000805   -0.757103   -20.027860
 0.56330   -1.392500 -101.956358   -1.350567
-0.000805   -1.210248   -10.384883

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   12.740898   79.131231    1.154983
 0.003104   0.658963  124.906754
 0.14083   12.740898   79.131231    1.154983
 0.003104   0.178583  117.120231
 0.28165   12.740898   79.131231    1.154983
 0.003104   0.417210  125.504074
 0.42248   12.740898   79.131231    1.154983
 0.003104   1.027061  144.361331
 0.56330   12.740898   79.131231    1.154983
 0.003104   1.646598  170.707179
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1940

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -7.514642  -88.251585   -1.479029
-0.003201   -0.835391  -50.121715
 0.14083   -7.514642  -88.251585   -1.479029
-0.003201   -0.218524  -37.522697
 0.28165   -7.514642  -88.251585   -1.479029
-0.003201   -0.319616  -41.109206
 0.42248   -7.514642  -88.251585   -1.479029
-0.003201   -0.803694  -50.790676
 0.56330   -7.514642  -88.251585   -1.479029
-0.003201   -1.287108   -72.840836

COMB      DB ------------------- MAX
```

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.147744	177.029433	0.883441
0.007501	0.501807	138.185617	
0.14083	13.147744	177.029433	0.883441
0.007501	0.143916	146.337240	
0.28165	13.147744	177.029433	0.883441
0.007501	0.265522	157.691918	
0.42248	13.147744	177.029433	0.883441
0.007501	0.654260	183.626410	
0.56330	13.147744	177.029433	0.883441
0.007501	1.056828	219.848930	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.011846	-104.195930	-0.960683
-0.006163	-0.555042	-61.870088	
0.14083	-20.011846	-104.195930	-0.960683
-0.006163	-0.152387	-59.026320	
0.28165	-20.011846	-104.195930	-0.960683
-0.006163	-0.242352	-97.501786	
0.42248	-20.011846	-104.195930	-0.960683
-0.006163	-0.612820	-141.722736	
0.56330	-20.011846	-104.195930	-0.960683
-0.006163	-0.983158	-207.417880	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.740898	169.609807	1.190986
0.007415	0.687088	138.943170	
0.14083	12.740898	169.609807	1.190986
0.007415	0.192869	147.838836	
0.28165	12.740898	169.609807	1.190986
0.007415	0.417210	160.059173	
0.42248	12.740898	169.609807	1.190986
0.007415	1.027061	184.107960	
0.56330	12.740898	169.609807	1.190986
0.007415	1.646598	217.781459	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.551728	-101.956358	-1.486243
-0.006196	-0.860740	-66.981251	
0.14083	-19.551728	-101.956358	-1.486243
-0.006196	-0.241578	-62.531890	
0.28165	-19.551728	-101.956358	-1.486243
-0.006196	-0.326869	-96.523456	
0.42248	-19.551728	-101.956358	-1.486243
-0.006196	-0.825667	-137.870407	
0.56330	-19.551728	-101.956358	-1.486243
-0.006196	-1.323871	-205.598013	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.147744	177.029433	1.190986
0.007501	0.687088	138.943170	
0.14083	13.147744	177.029433	1.190986
0.007501	0.192869	147.838836	
0.28165	13.147744	177.029433	1.190986
0.007501	0.417210	160.059173	
0.42248	13.147744	177.029433	1.190986
0.007501	1.027061	184.107960	
0.56330	13.147744	177.029433	1.190986
0.007501	1.646598	219.848930	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1941

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.011846	-104.195930	-1.486243
-0.006196	-0.860740	-66.981251	
0.14083	-20.011846	-104.195930	-1.486243
-0.006196	-0.241578	-62.531890	
0.28165	-20.011846	-104.195930	-1.486243
-0.006196	-0.326869	-97.501786	
0.42248	-20.011846	-104.195930	-1.486243
-0.006196	-0.825667	-141.722736	
0.56330	-20.011846	-104.195930	-1.486243
-0.006196	-1.323871	-207.417880	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.147744	177.029433	1.190986
0.007501	0.687088	138.943170	
0.14083	13.147744	177.029433	1.190986
0.007501	0.192869	147.838836	
0.28165	13.147744	177.029433	1.190986
0.007501	0.417210	160.059173	
0.42248	13.147744	177.029433	1.190986
0.007501	1.027061	184.107960	
0.56330	13.147744	177.029433	1.190986
0.007501	1.646598	219.848930	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.011846	-104.195930	-1.486243
-0.006196	-0.860740	-66.981251	
0.14083	-20.011846	-104.195930	-1.486243
-0.006196	-0.241578	-62.531890	
0.28165	-20.011846	-104.195930	-1.486243
-0.006196	-0.326869	-97.501786	
0.42248	-20.011846	-104.195930	-1.486243
-0.006196	-0.825667	-141.722736	
0.56330	-20.011846	-104.195930	-1.486243
-0.006196	-1.323871	-207.417880	

ELEM 168 ========== LENGTH = 2.977174

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.555160	79.264914	0.484941
0.000618	0.543350	109.764921	
0.57749	0.555160	79.264914	0.484941
0.000618	0.340018	76.601500	
0.71833	0.555160	79.264914	0.484941
0.000618	0.136692	43.551780	
0.85916	0.555160	79.264914	0.484941
0.000618	0.064878	10.803778	
1.00000	0.555160	79.264914	0.484941
0.000618	0.257835	2.163485	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-12.787228	-5.314675	-0.460205
-0.000587	-0.514009	-10.953976	
0.57749	-12.787228	-5.314675	-0.460205
-0.000587	-0.321048	-8.890626	
0.71833	-12.787228	-5.314675	-0.460205
-0.000587	-0.128077	-7.177753	
0.85916	-12.787228	-5.314675	-0.460205
-0.000587	-0.066644	-5.636386	
1.00000	-12.787228	-5.314675	-0.460205
-0.000587	-0.269997	-24.281623	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	5.263498	111.238369	0.627611
0.006977	0.703579	203.438847	
0.57749	5.263498	111.238369	0.627611
0.006977	0.440421	162.442609	
0.71833	5.263498	111.238369	0.627611
0.006977	0.177226	132.956169	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1942

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85916	5.263498	111.238369	0.627611
0.006977	0.125824	121.555680	
1.00000	5.263498	111.238369	0.627611
0.006977	0.398598	123.526059	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-15.592862	-87.365646	-0.678703
-0.006937	-0.739708	-37.111750	
0.57749	-15.592862	-87.365646	-0.678703
-0.006937	-0.455132	-14.833858	
0.71833	-15.592862	-87.365646	-0.678703
-0.006937	-0.177109	-10.562267	
0.85916	-15.592862	-87.365646	-0.678703
-0.006937	-0.110428	-8.091471	
1.00000	-15.592862	-87.365646	-0.678703
-0.006937	-0.365004	-11.612664	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	8.605570	99.613969	0.727533
0.005213	0.813871	185.647318	
0.57749	8.605570	99.613969	0.727533
0.005213	0.508819	149.593142	
0.71833	8.605570	99.613969	0.727533
0.005213	0.203700	122.278144	
0.85916	8.605570	99.613969	0.727533
0.005213	0.120796	111.250075	
1.00000	8.605570	99.613969	0.727533
0.005213	0.417820	123.738559	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-14.153413	-116.502847	-0.727584
-0.005142	-0.802474	-81.900404	
0.57749	-14.153413	-116.502847	-0.727584
-0.005142	-0.497416	-42.010581	
0.71833	-14.153413	-116.502847	-0.727584
-0.005142	-0.196837	-13.282983	
0.85916	-14.153413	-116.502847	-0.727584
-0.005142	-0.117951	-8.293807	
1.00000	-14.153413	-116.502847	-0.727584
-0.005142	-0.417213	-10.253358	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	10.247900	84.817571	0.849429
0.004363	0.949464	159.606611	
0.57749	10.247900	84.817571	0.849429
0.004363	0.593300	128.789089	
0.71833	10.247900	84.817571	0.849429
0.004363	0.237046	105.222877	
0.85916	10.247900	84.817571	0.849429
0.004363	0.133465	95.237503	
1.00000	10.247900	84.817571	0.849429
0.004363	0.478236	104.738834	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-13.323339	-116.202649	-0.838060
-0.004310	-0.927342	-121.916356	
0.57749	-13.323339	-116.202649	-0.838060
-0.004310	-0.575962	-80.390815	
0.71833	-13.323339	-116.202649	-0.838060
-0.004310	-0.226292	-49.545260	
0.85916	-13.323339	-116.202649	-0.838060
-0.004310	-0.134425	-38.270933	
1.00000	-13.323339	-116.202649	-0.838060
-0.004310	-0.484216	-32.345928	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	6.208272	8.929207	0.119377
0.005515	0.133261	46.297900	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1943

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57749	6.208272	8.929207	0.119377
0.005515	0.083206	49.252950	
0.71833	6.208272	8.929207	0.119377
0.005515	0.033109	61.955833	
0.85916	6.208272	8.929207	0.119377
0.005515	0.057168	93.787064	
1.00000	6.208272	8.929207	0.119377
0.005515	0.122644	134.607310	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-0.664528	-100.323453	-0.179767
-0.005492	-0.178861	-41.392599	
0.57749	-0.664528	-100.323453	-0.179767
-0.005492	-0.105206	-11.423794	
0.71833	-0.664528	-100.323453	-0.179767
-0.005492	-0.041299	-2.587744	
0.85916	-0.664528	-100.323453	-0.179767
-0.005492	-0.037429	-1.952175	
1.00000	-0.664528	-100.323453	-0.179767
-0.005492	-0.080312	-1.341830	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	10.525674	8.367960	0.357306
0.005364	0.398233	44.841584	
0.57749	10.525674	8.367960	0.357306
0.005364	0.248414	47.785336	
0.71833	10.525674	8.367960	0.357306
0.005364	0.098488	60.667412	
0.85916	10.525674	8.367960	0.357306
0.005364	0.076387	92.061774	
1.00000	10.525674	8.367960	0.357306
0.005364	0.229359	140.456486	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-1.979698	-137.593479	-0.386828
-0.005339	-0.419426	-103.520969	
0.57749	-1.979698	-137.593479	-0.386828
-0.005339	-0.257250	-56.300082	
0.71833	-1.979698	-137.593479	-0.386828
-0.005339	-0.100188	-22.348428	
0.85916	-1.979698	-137.593479	-0.386828
-0.005339	-0.072563	-15.223055	
1.00000	-1.979698	-137.593479	-0.386828
-0.005339	-0.213485	-10.637772	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	10.031895	86.196024	0.645466
0.004227	0.721494	192.317818	
0.57749	10.031895	86.196024	0.645466
0.004227	0.450852	161.273861	
0.71833	10.031895	86.196024	0.645466
0.004227	0.180129	137.613204	
0.85916	10.031895	86.196024	0.645466
0.004227	0.105686	128.396611	
1.00000	10.031895	86.196024	0.645466
0.004227	0.369159	134.967343	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-11.121748	-117.682241	-0.643714
-0.004196	-0.171471	-98.590118	
0.57749	-11.121748	-117.682241	-0.643714
-0.004196	-0.440585	-56.714519	
0.71833	-11.121748	-117.682241	-0.643714
-0.004196	-0.174298	-24.738052	
0.85916	-11.121748	-117.682241	-0.643714
-0.004196	-0.105958	-17.484575	
1.00000	-11.121748	-117.682241	-0.643714
-0.004196	-0.369883	-12.223696	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1944

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	11.670489	74.218314	0.801205
0.003531	0.895015	166.713568	
0.57749	11.670489	74.218314	0.801205
0.003531	0.559079	139.860134	
0.71833	11.670489	74.218314	0.801205
0.003531	0.223025	119.189232	
0.85916	11.670489	74.218314	0.801205
0.003531	0.123528	110.544885	
1.00000	11.670489	74.218314	0.801205
0.003531	0.448285	115.141017	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-9.508026	-113.520116	-0.787340
-0.003505	-0.872229	-137.436182	
0.57749	-9.508026	-113.520116	-0.787340
-0.003505	-0.542116	-96.131997	
0.71833	-9.508026	-113.520116	-0.787340
-0.003505	-0.214982	-62.941409	
0.85916	-9.508026	-113.520116	-0.787340
-0.003505	-0.125403	-50.293648	
1.00000	-9.508026	-113.520116	-0.787340
-0.003505	-0.456109	-39.591987	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	5.546097	4.215645	0.415236
1.21E-05	0.463233	11.722822	
0.57749	5.546097	4.215645	0.415236
1.21E-05	0.289157	9.962693	
0.71833	5.546097	4.215645	0.415236
1.21E-05	0.115036	8.214058	
0.85916	5.546097	4.215645	0.415236
1.21E-05	0.055680	6.482923	
1.00000	5.546097	4.215645	0.415236
1.21E-05	0.221709	4.828226	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-0.145265	-22.263071	-0.395815
-1.20E-05	-0.442140	-85.315132	
0.57749	-0.145265	-22.263071	-0.395815
-1.20E-05	-0.276178	-76.035365	
0.71833	-0.145265	-22.263071	-0.395815
-1.20E-05	-0.110200	-66.788959	
0.85916	-0.145265	-22.263071	-0.395815
-1.20E-05	-0.055393	-57.543046	
1.00000	-0.145265	-22.263071	-0.395815
-1.20E-05	-0.233205	-48.319773	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	9.336462	5.803457	0.668601
0.000328	0.745765	16.290110	
0.57749	9.336462	5.803457	0.668601
0.000328	0.465431	14.030329	
0.71833	9.336462	5.803457	0.668601
0.000328	0.185097	12.116568	
0.85916	9.336462	5.803457	0.668601
0.000328	0.091329	10.783094	
1.00000	9.336462	5.803457	0.668601
0.000328	0.359020	11.137495	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-2.475074	-52.406459	-0.639136
-0.000328	-0.712899	-145.189187	
0.57749	-2.475074	-52.406459	-0.639136
-0.000328	-0.444926	-124.114202	
0.71833	-2.475074	-52.406459	-0.639136
-0.000328	-0.177141	-104.085445	
0.85916	-2.475074	-52.406459	-0.639136
-0.000328	-0.100947	-84.268974	
1.00000	-2.475074	-52.406459	-0.639136
-0.000328	-0.376096	-65.466100	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1945

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	12.730764	5.330123	0.706711
0.000767	0.787539	28.519936	
0.57749	12.730764	5.330123	0.706711
0.000767	0.491220	28.916922	
0.71833	12.730764	5.330123	0.706711
0.000767	0.194824	31.428234	
0.85916	12.730764	5.330123	0.706711
0.000767	0.098127	40.527770	
1.00000	12.730764	5.330123	0.706711
0.000767	0.381508	65.448523	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-1.262506	-104.883800	-0.677134
-0.000749	-0.754190	-170.324168	
0.57749	-1.262506	-104.883800	-0.677134
-0.000749	-0.470281	-127.224731	
0.71833	-1.262506	-104.883800	-0.677134
-0.000749	-0.186736	-86.899437	
0.85916	-1.262506	-104.883800	-0.677134
-0.000749	-0.104496	-71.649350	
1.00000	-1.262506	-104.883800	-0.677134
-0.000749	-0.398570	-58.299486	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	13.644395	57.099633	0.783633
0.003855	0.874937	144.963597	
0.57749	13.644395	57.099633	0.783633
0.003855	0.546400	125.687336	
0.71833	13.644395	57.099633	0.783633
0.003855	0.217713	113.467633	
0.85916	13.644395	57.099633	0.783633
0.003855	0.124353	114.569717	
1.00000	13.644395	57.099633	0.783633
0.003855	0.443809	128.761420	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-6.357053	-121.358345	-0.777121
-0.003830	-0.859569	-153.553717	
0.57749	-6.357053	-121.358345	-0.777121
-0.003830	-0.533743	-110.009402	
0.71833	-6.357053	-121.358345	-0.777121
-0.003830	-0.211492	-75.861847	
0.85916	-6.357053	-121.358345	-0.777121
-0.003830	-0.125614	-62.069010	
1.00000	-6.357053	-121.358345	-0.777121
-0.003830	-0.448097	-50.145046	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.742565	79.036803	0.710097
0.000506	0.782718	106.901701	
0.57749	0.742565	79.036803	0.710097
0.000506	0.485093	73.953479	
0.71833	0.742565	79.036803	0.710097
0.000506	0.187780	41.208791	
0.85916	0.742565	79.036803	0.710097
0.000506	0.079635	9.811319	
1.00000	0.742565	79.036803	0.710097
0.000506	0.313907	2.414304	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-13.720795	-6.180114	-0.560899
-0.000476	-0.627747	-13.649543	
0.57749	-13.720795	-6.180114	-0.560899
-0.000476	-0.392967	-11.226318	
0.71833	-13.720795	-6.180114	-0.560899
-0.000476	-0.157718	-9.178512	
0.85916	-13.720795	-6.180114	-0.560899
-0.000476	-0.112497	-8.285129	
1.00000	-13.720795	-6.180114	-0.560899
-0.000476	-0.408931	-30.792833	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1946

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	6.841669	109.029222	0.899746
0.006847	0.979623	205.135190	
0.57749	6.841669	109.029222	0.899746
0.006847	0.606347	165.095867	
0.71833	6.841669	109.029222	0.899746
0.006847	0.240564	138.304860	
0.85916	6.841669	109.029222	0.899746
0.006847	0.155005	126.886770	
1.00000	6.841669	109.029222	0.899746
0.006847	0.506627	131.162468	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-15.986400	-84.778341	-0.852440
-0.006812	-0.934888	-43.286276	
0.57749	-15.986400	-84.778341	-0.852440
-0.006812	-0.578429	-17.517213	
0.71833	-15.986400	-84.778341	-0.852440
-0.006812	-0.228995	-12.581644	
0.85916	-15.986400	-84.778341	-0.852440
-0.006812	-0.168150	-10.667119	
1.00000	-15.986400	-84.778341	-0.852440
-0.006812	-0.543728	-19.215231	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	9.313439	97.393476	1.029836
0.005225	1.129450	184.132152	
0.57749	9.313439	97.393476	1.029836
0.005225	0.701535	149.554922	
0.71833	9.313439	97.393476	1.029836
0.005225	0.273637	126.425862	
0.85916	9.313439	97.393476	1.029836
0.005225	0.164239	122.443112	
1.00000	9.313439	97.393476	1.029836
0.005225	0.565434	136.707671	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-14.631113	-111.594333	-0.970022
-0.005179	-1.070885	-78.268702	
0.57749	-14.631113	-111.594333	-0.970022
-0.005179	-0.665330	-40.099952	
0.71833	-14.631113	-111.594333	-0.970022
-0.005179	-0.265146	-17.540190	
0.85916	-14.631113	-111.594333	-0.970022
-0.005179	-0.176930	-10.109679	
1.00000	-14.631113	-111.594333	-0.970022
-0.005179	-0.606432	-17.307861	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	10.498781	83.301051	1.210102
0.004371	1.332198	159.317457	
0.57749	10.498781	83.301051	1.210102
0.004371	0.828169	129.611340	
0.71833	10.498781	83.301051	1.210102
0.004371	0.327667	109.437901	
0.85916	10.498781	83.301051	1.210102
0.004371	0.184356	105.130658	
1.00000	10.498781	83.301051	1.210102
0.004371	0.656704	115.951427	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-13.583652	-114.571948	-1.137252
-0.004335	-1.258741	-125.051096	
0.57749	-13.583652	-114.571948	-1.137252
-0.004335	-0.782672	-84.367412	
0.71833	-13.583652	-114.571948	-1.137252
-0.004335	-0.311357	-56.776877	
0.85916	-13.583652	-114.571948	-1.137252
-0.004335	-0.200294	-42.159346	
1.00000	-13.583652	-114.571948	-1.137252
-0.004335	-0.705036	-39.527838	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1947

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.43666    7.183435    9.390526    0.152063
0.004622    0.157103   54.328017
0.57749    7.183435    9.390526    0.152063
0.004622    0.096855   56.983632
0.71833    7.183435    9.390526    0.152063
0.004622    0.040797   71.635227
0.85916    7.183435    9.390526    0.152063
0.004622    0.068806  100.406647
1.00000    7.183435    9.390526    0.152063
0.004622    0.176389  134.544770

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666   -0.715754   -87.841854   -0.263238
-0.004602   -0.273854   -40.136883
0.57749   -0.715754   -87.841854   -0.263238
-0.004602   -0.163433   -12.259270
0.71833   -0.715754   -87.841854   -0.263238
-0.004602   -0.059089    -2.805911
0.85916   -0.715754   -87.841854   -0.263238
-0.004602   -0.043069    -2.065124
1.00000   -0.715754   -87.841854   -0.263238
-0.004602   -0.106605    -1.347241

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   10.411475    9.148877    0.497509
 0.004610    0.540646   49.869323
0.57749   10.411475    9.148877    0.497509
 0.004610    0.336125   52.745703
0.71833   10.411475    9.148877    0.497509
 0.004610    0.136413   67.279426
0.85916   10.411475    9.148877    0.497509
 0.004610    0.107999  101.564965
1.00000   10.411475    9.148877    0.497509
 0.004610    0.338584  143.615493

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666   -1.979693  -124.661972   -0.558358
-0.004584   -0.607360   -96.090379
0.57749   -1.979693  -124.661972   -0.558358
-0.004584   -0.374119   -52.659615
0.71833   -1.979693  -124.661972   -0.558358
-0.004584   -0.147222   -24.768352
0.85916   -1.979693  -124.661972   -0.558358
-0.004584   -0.095252   -15.554355
1.00000   -1.979693  -124.661972   -0.558358
-0.004584   -0.302043   -10.432199

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   10.299218   84.688911    0.886135
 0.003355    0.976997  196.063428
0.57749   10.299218   84.688911    0.886135
 0.003355    0.608133  165.965039
0.71833   10.299218   84.688911    0.886135
 0.003355    0.243100  144.444615
0.85916   10.299218   84.688911    0.886135
 0.003355    0.143751  138.539891
1.00000   10.299218   84.688911    0.886135
 0.003355    0.511639  139.825376

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666  -10.702797  -105.890649   -0.884761
-0.003313   -0.977576   -92.617222
0.57749  -10.702797  -105.890649   -0.884761
-0.003313   -0.607591   -54.793899
0.71833  -10.702797  -105.890649   -0.884761
-0.003313   -0.242022   -27.933336
0.85916  -10.702797  -105.890649   -0.884761
-0.003313   -0.144453   -18.447208
1.00000  -10.702797  -105.890649   -0.884761
-0.003313   -0.514115   -12.560948
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1948

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   11.866254   73.563209    1.112725
 0.002806    1.231629  171.652363
0.57749   11.866254   73.563209    1.112725
 0.002806    0.767536  145.317420
0.71833   11.866254   73.563209    1.112725
 0.002806    0.302527  126.103572
0.85916   11.866254   73.563209    1.112725
 0.002806    0.173684  120.098095
1.00000   11.866254   73.563209    1.112725
 0.002806    0.635977  120.115271

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666   -9.268205  -107.230222   -1.108852
-0.002769   -1.228226  -141.325180
0.57749   -9.268205  -107.230222   -1.108852
-0.002769   -0.764095  -101.960411
0.71833   -9.268205  -107.230222   -1.108852
-0.002769   -0.303395   -71.761009
0.85916   -9.268205  -107.230222   -1.108852
-0.002769   -0.172660   -55.926093
1.00000   -9.268205  -107.230222   -1.108852
-0.002769   -0.638563   -43.315143

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666    6.050020    5.266591    0.587071
9.34E-06    0.654016   14.870041
0.57749    6.050020    5.266591    0.587071
9.34E-06    0.407819   12.664448
0.71833    6.050020    5.266591    0.587071
9.34E-06    0.161377   10.467812
0.85916    6.050020    5.266591    0.587071
9.34E-06    0.089695    8.281649
1.00000    6.050020    5.266591    0.587071
9.34E-06    0.343581    6.195115

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666   -0.169545   -26.956735   -0.605590
-9.22E-06   -0.671671   -99.742082
0.57749   -0.169545   -26.956735   -0.605590
-9.22E-06   -0.417547   -88.456216
0.71833   -0.169545   -26.956735   -0.605590
-9.22E-06   -0.163743   -77.201452
0.85916   -0.169545   -26.956735   -0.605590
-9.22E-06   -0.083415   -65.974327
1.00000   -0.169545   -26.956735   -0.605590
-9.22E-06   -0.330697   -54.835070

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666    9.229534    7.056894    0.970061
0.000254    1.078150   19.991128
0.57749    9.229534    7.056894    0.970061
0.000254    0.672043   17.141717
0.71833    9.229534    7.056894    0.970061
0.000254    0.265382   14.549075
0.85916    9.229534    7.056894    0.970061
0.000254    0.140584   12.539015
1.00000    9.229534    7.056894    0.970061
0.000254    0.539259   12.124766

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666   -2.445010   -58.842560   -0.951738
-0.000255   -1.057221  -164.507279
0.57749   -2.445010   -58.842560   -0.951738
-0.000255   -0.658126  -140.261100
0.71833   -2.445010   -58.842560   -0.951738
-0.000255   -0.259673  -116.691529
0.85916   -2.445010   -58.842560   -0.951738
-0.000255   -0.146169   -94.068522
1.00000   -2.445010   -58.842560   -0.951738
-0.000255   -0.552158   -72.832635
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1949

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   12.489675    6.374251    0.983771
 0.000389    1.093520   31.663649
0.57749   12.489675    6.374251    0.983771
 0.000389    0.681288   32.585243
0.71833   12.489675    6.374251    0.983771
 0.000389    0.270328   37.054793
0.85916   12.489675    6.374251    0.983771
 0.000389    0.153449   50.905122
1.00000   12.489675    6.374251    0.983771
 0.000389    0.575503   71.929028

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666   -1.445294  -102.574074   -1.009276
-0.000372   -1.117202  -177.197070
0.57749   -1.445294  -102.574074   -1.009276
-0.000372   -0.694352  -137.088607
0.71833   -1.445294  -102.574074   -1.009276
-0.000372   -0.272943  -100.019667
0.85916   -1.445294  -102.574074   -1.009276
-0.000372   -0.144037   -81.165942
1.00000   -1.445294  -102.574074   -1.009276
-0.000372   -0.555824   -64.780638

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   13.894382   57.562500    1.085001
 0.002879    1.200819  153.870282
0.57749   13.894382   57.562500    1.085001
 0.002879    0.748259  134.479151
0.71833   13.894382   57.562500    1.085001
 0.002879    0.298934  122.790000
0.85916   13.894382   57.562500    1.085001
 0.002879    0.183137  124.439283
1.00000   13.894382   57.562500    1.085001
 0.002879    0.652856  132.015903

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666   -6.214691  -113.193731   -1.131842
-0.002852   -1.249930  -160.452043
0.57749   -6.214691  -113.193731   -1.131842
-0.002852   -0.775833  -118.899717
0.71833   -6.214691  -113.193731   -1.131842
-0.002852   -0.305908   -87.227746
0.85916   -6.214691  -113.193731   -1.131842
-0.002852   -0.169278   -70.382947
1.00000   -6.214691  -113.193731   -1.131842
-0.002852   -0.623434   -55.798954

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   13.644395  111.238369    0.849429
 0.006977    0.949464  203.438847
0.57749   13.644395  111.238369    0.849429
 0.006977    0.593300  162.442609
0.71833   13.644395  111.238369    0.849429
 0.006977    0.237046  137.613204
0.85916   13.644395  111.238369    0.849429
 0.006977    0.133465  128.358611
1.00000   13.644395  111.238369    0.849429
 0.006977    0.478236  140.456486

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666  -15.592862  -137.593479   -0.838060
-0.006937   -0.927342  -170.324168
0.57749  -15.592862  -137.593479   -0.838060
-0.006937   -0.575962  -127.224731
0.71833  -15.592862  -137.593479   -0.838060
-0.006937   -0.228292  -104.085445
0.85916  -15.592862  -137.593479   -0.838060
-0.006937   -0.134425   -84.268974
1.00000  -15.592862  -137.593479   -0.838060
-0.006937   -0.484216   -65.466100
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1950

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   13.894382  109.029222    1.210102
 0.006847    1.332198  205.135190
0.57749   13.894382  109.029222    1.210102
 0.006847    0.828169  165.965039
0.71833   13.894382  109.029222    1.210102
 0.006847    0.327667  144.444615
0.85916   13.894382  109.029222    1.210102
 0.006847    0.184356  138.539891
1.00000   13.894382  109.029222    1.210102
 0.006847    0.656704  143.615493

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666  -15.986400  -124.661972   -1.137252
-0.006812   -1.258741  -177.197070
0.57749  -15.986400  -124.661972   -1.137252
-0.006812   -0.782672  -140.261100
0.71833  -15.986400  -124.661972   -1.137252
-0.006812   -0.311357  -116.691529
0.85916  -15.986400  -124.661972   -1.137252
-0.006812   -0.200294   -94.068522
1.00000  -15.986400  -124.661972   -1.137252
-0.006812   -0.705036   -72.832635

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   13.894382  111.238369    1.210102
 0.006977    1.332198  205.135190
0.57749   13.894382  111.238369    1.210102
 0.006977    0.828169  165.965039
0.71833   13.894382  111.238369    1.210102
 0.006977    0.327667  144.444615
0.85916   13.894382  111.238369    1.210102
 0.006977    0.184356  138.539891
1.00000   13.894382  111.238369    1.210102
 0.006977    0.656704  143.615493

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666  -15.986400  -137.593479   -1.137252
-0.006937   -1.258741  -177.197070
0.57749  -15.986400  -137.593479   -1.137252
-0.006937   -0.782672  -140.261100
0.71833  -15.986400  -137.593479   -1.137252
-0.006937   -0.311357  -116.691529
0.85916  -15.986400  -137.593479   -1.137252
-0.006937   -0.200294   -94.068522
1.00000  -15.986400  -137.593479   -1.137252
-0.006937   -0.705036   -72.832635

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43666   13.894382  111.238369    1.210102
 0.006977    1.332198  205.135190
0.57749   13.894382  111.238369    1.210102
 0.006977    0.828169  165.965039
0.71833   13.894382  111.238369    1.210102
 0.006977    0.327667  144.444615
0.85916   13.894382  111.238369    1.210102
 0.006977    0.184356  138.539891
1.00000   13.894382  111.238369    1.210102
 0.006977    0.656704  143.615493

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43666  -15.986400  -137.593479   -1.137252
-0.006937   -1.258741  -177.197070
0.57749  -15.986400  -137.593479   -1.137252
-0.006937   -0.782672  -140.261100
0.71833  -15.986400  -137.593479   -1.137252
-0.006937   -0.311357  -116.691529
0.85916  -15.986400  -137.593479   -1.137252
-0.006937   -0.200294   -94.068522
1.00000  -15.986400  -137.593479   -1.137252
-0.006937   -0.705036   -72.832635
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1951

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      169 ================ LENGTH
=     2.977234

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   12.741189   -5.276599   -0.469594
-0.000428   -0.265426   -24.316511
0.14084   12.741189   -5.276599   -0.469594
-0.000428   -0.068520   -56.993210
0.28168   12.741189   -5.276599   -0.469594
-0.000428   -0.137346   -89.961432
0.42251   12.741189   -5.276599   -0.469594
-0.000428   -0.349461  -122.936743
0.56335   12.741189   -5.276599   -0.469594
-0.000428   -0.561595  -155.940167

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.945616  177.150248    0.657853
 0.006856    0.393689  123.887683
0.14084    3.945616  177.150248    0.657853
 0.006856    0.128109   98.628264
0.28168    3.945616  177.150248    0.657853
 0.006856    0.177980   73.704587
0.42251    3.945616  177.150248    0.657853
 0.006856    0.426631   67.957895
0.56335    3.945616  177.150248    0.657853
 0.006856    0.700170   74.722749

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -19.732339   -26.308561   -0.652475
-0.006769   -0.396034   -11.652149
0.14084  -19.732339   -26.308561   -0.652475
-0.006769   -0.122674   -52.900251
0.28168  -19.732339   -26.308561   -0.652475
-0.006769   -0.178110   -94.775568
0.42251  -19.732339   -26.308561   -0.652475
-0.006769   -0.453988  -138.895337
0.56335  -19.732339   -26.308561   -0.652475
-0.006769   -0.729835  -204.634427

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.803698  144.302632    0.747799
 0.004947    0.436353  123.953563
0.14084    7.803698  144.302632    0.747799
 0.004947    0.127954  130.628767
0.28168    7.803698  144.302632    0.747799
 0.004947    0.197569  137.482691
0.42251    7.803698  144.302632    0.747799
 0.004947    0.481327  157.545697
0.56335    7.803698  144.302632    0.747799
 0.004947    0.782060  186.214834

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -16.945787   -75.459907   -0.717347
-0.004856   -0.422383   -10.287040
0.14084  -16.945787   -75.459907   -0.717347
-0.004856   -0.121696   -48.355482
0.28168  -16.945787   -75.459907   -0.717347
-0.004856   -0.204533   -86.799700
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1952

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.42251   -16.945787   -75.459907   -0.717347
-0.004856   -0.518181  -126.708628
0.56335   -16.945787   -75.459907   -0.717347
-0.004856   -0.831720  -181.304630

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.620151  121.901768    0.865234
 0.004341    0.499087  104.922250
0.14084    9.620151  121.901768    0.865234
 0.004341    0.140631  109.897429
0.28168    9.620151  121.901768    0.865234
 0.004341    0.229039  117.862370
0.42251    9.620151  121.901768    0.865234
 0.004341    0.563019  138.531673
0.56335    9.620151  121.901768    0.865234
 0.004341    0.911057  169.145312

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -15.633838   -82.378041   -0.830149
-0.004189   -0.482362   -32.387675
0.14084   -15.633838   -82.378041   -0.830149
-0.004189   -0.134284   -56.654856
0.28168   -15.633838   -82.378041   -0.830149
-0.004189   -0.237823   -82.193448
0.42251   -15.633838   -82.378041   -0.830149
-0.004189   -0.600721  -110.020341
0.56335   -15.633838   -82.378041   -0.830149
-0.004189   -0.963499  -152.471554

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.151982   64.713925    0.120357
 0.005236    0.084525  134.893296
0.14084    5.151982   64.713925    0.120357
 0.005236    0.043447  126.850109
0.28168    5.151982   64.713925    0.120357
 0.005236    0.043866  118.887804
0.42251    5.151982   64.713925    0.120357
 0.005236    0.090681  126.100497
0.56335    5.151982   64.713925    0.120357
 0.005236    0.158321  143.524038

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.185942   -49.544785   -0.161428
-0.005223   -0.113983   -3.336420
0.14084   -4.185942   -49.544785   -0.161428
-0.005223   -0.046420   -0.747247
0.28168   -4.185942   -49.544785   -0.161428
-0.005223   -0.033225   -0.491732
0.42251   -4.185942   -49.544785   -0.161428
-0.005223   -0.083734   -2.146697
0.56335   -4.185942   -49.544785   -0.161428
-0.005223   -0.134202   -21.990110

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.616378   60.286046    0.354065
 0.005175    0.213833  140.705735
0.14084    9.616378   60.286046    0.354065
 0.005175    0.071527  147.161759
0.28168    9.616378   60.286046    0.354065
 0.005175    0.100581  157.469784
0.42251    9.616378   60.286046    0.354065
 0.005175    0.231982  182.684007
0.56335    9.616378   60.286046    0.354065
 0.005175    0.382762  217.643826

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.238815   -90.791480   -0.359756
-0.005016   -0.222095   -10.637984
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1953

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.14084   -5.238815   -90.791480   -0.359756
-0.005016   -0.071376   -6.161440
0.28168   -5.238815   -90.791480   -0.359756
-0.005016   -0.098706   -3.286214
0.42251   -5.238815   -90.791480   -0.359756
-0.005016   -0.247292   -0.565147
0.56335   -5.238815   -90.791480   -0.359756
-0.005016   -0.395735   -22.010703

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.417616  122.279712    0.658147
 0.004191    0.382193  135.103101
0.14084    9.417616  122.279712    0.658147
 0.004191    0.110571  127.414449
0.28168    9.417616  122.279712    0.658147
 0.004191    0.174939  140.241524
0.42251    9.417616  122.279712    0.658147
 0.004191    0.426990  165.556335
0.56335    9.417616  122.279712    0.658147
 0.004191    0.692780  197.924979

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -13.373075   -84.748863   -0.633940
-0.003994   -0.371528   -12.217433
0.14084  -13.373075   -84.748863   -0.633940
-0.003994   -0.105783   -16.222875
0.28168  -13.373075   -84.748863   -0.633940
-0.003994   -0.180779   -46.943495
0.42251  -13.373075   -84.748863   -0.633940
-0.003994   -0.456855   -80.176284
0.56335  -13.373075   -84.748863   -0.633940
-0.003994   -0.732803  -126.535278

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.192732  104.454826    0.810817
 0.003655    0.465525  115.259264
0.14084   11.192732  104.454826    0.810817
 0.003655    0.129145  107.872863
0.28168   11.192732  104.454826    0.810817
 0.003655    0.215698  117.014011
0.42251   11.192732  104.454826    0.810817
 0.003655    0.531789  137.235340
0.56335   11.192732  104.454826    0.810817
 0.003655    0.859347  166.631953

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -11.389511   -86.019320   -0.781293
-0.003531   -0.451936   -39.598636
0.14084  -11.389511   -86.019320   -0.781293
-0.003531   -0.124297   -36.569211
0.28168  -11.389511   -86.019320   -0.781293
-0.003531   -0.223627   -55.593158
0.42251  -11.389511   -86.019320   -0.781293
-0.003531   -0.563749   -76.480416
0.56335  -11.389511   -86.019320   -0.781293
-0.003531   -0.903710  -108.329162

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.601077    4.295338    0.413490
0.000190    0.231655    4.834959
0.14084    5.601077    4.295338    0.413490
0.000190    0.058303    3.390526
0.28168    5.601077    4.295338    0.413490
0.000190    0.110447    2.107200
0.42251    5.601077    4.295338    0.413490
```

0.000190 0.278274 1.388092
0.56335 5.601077 4.295338 0.413490
0.000190 0.446105 1.842412
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1954

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.150621	-22.331378	-0.400258
-0.000288	-0.225222	-48.337455	
0.14084	-0.150621	-22.331378	-0.400258
-0.000288	-0.057301	-39.307355	
0.28168	-0.150621	-22.331378	-0.400258
-0.000288	-0.115111	-30.386120	
0.42251	-0.150621	-22.331378	-0.400258
-0.000288	-0.288507	-21.485508	
0.56335	-0.150621	-22.331378	-0.400258
-0.000288	-0.461886	-12.617690	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.397311	7.961394	0.665061
0.000749	0.373171	11.155673	
0.14084	9.397311	7.961394	0.665061
0.000749	0.094520	12.440519	
0.28168	9.397311	7.961394	0.665061
0.000749	0.177535	18.873449	
0.42251	9.397311	7.961394	0.665061
0.000749	0.445650	27.535896	
0.56335	9.397311	7.961394	0.665061
0.000749	0.714544	38.348719	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.607006	-50.964744	-0.641295
-0.000824	-0.361096	-65.497393	
0.14084	-2.607006	-50.964744	-0.641295
-0.000824	-0.092116	-49.829917	
0.28168	-2.607006	-50.964744	-0.641295
-0.000824	-0.185236	-35.843342	
0.42251	-2.607006	-50.964744	-0.641295
-0.000824	-0.464097	-23.772864	
0.56335	-2.607006	-50.964744	-0.641295
-0.000824	-0.742952	-14.088453	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.849832	8.751211	0.697425
0.000810	0.390893	65.439435	
0.14084	12.849832	8.751211	0.697425
0.000810	0.098831	91.068146	
0.28168	12.849832	8.751211	0.697425
0.000810	0.187117	119.996350	
0.42251	12.849832	8.751211	0.697425
0.000810	0.467894	151.138495	
0.56335	12.849832	8.751211	0.697425
0.000810	0.749951	184.549713	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.465195	-102.707994	-0.672668
-0.000743	-0.378357	-58.319529	
0.14084	-1.465195	-102.707994	-0.672668
-0.000743	-0.096209	-44.996937	
0.28168	-1.465195	-102.707994	-0.672668
-0.000743	-0.195012	-32.812267	
0.42251	-1.465195	-102.707994	-0.672668
-0.000743	-0.487502	-21.977663	
0.56335	-1.465195	-102.707994	-0.672668
-0.000743	-0.779911	-13.388449	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.064526	93.048936	0.788508
0.004099	0.454031	128.920494	
0.14084	13.064526	93.048936	0.788508
0.004099	0.127650	117.001390	
0.28168	13.064526	93.048936	0.788508
0.004099	0.212163	122.600675	
0.42251	13.064526	93.048936	0.788508
0.004099	0.508099	140.211413	
0.56335	13.064526	93.048936	0.788508
0.004099	0.842395	166.107249	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1955

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.608211	-88.723144	-0.767823
-0.004002	-0.446417	-50.156500	
0.14084	-8.608211	-88.723144	-0.767823
-0.004002	-0.124483	-38.274210	
0.28168	-8.608211	-88.723144	-0.767823
-0.004002	-0.218180	-44.175622	
0.42251	-8.608211	-88.723144	-0.767823
-0.004002	-0.548881	-56.054023	
0.56335	-8.608211	-88.723144	-0.767823
-0.004002	-0.879485	-80.641721	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.749233	78.694809	0.639090
0.000397	0.362316	2.414431	
0.14084	0.749233	78.694809	0.639090
0.000397	0.095405	3.009868	
0.28168	0.749233	78.694809	0.639090
0.000397	0.155823	3.672631	
0.42251	0.749233	78.694809	0.639090
0.000397	0.397990	5.262343	
0.56335	0.749233	78.694809	0.639090
0.000397	0.640233	7.728663	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.691421	-6.176293	-0.580207
-0.000350	-0.342135	-30.825463	
0.14084	-13.691421	-6.176293	-0.580207
-0.000350	-0.098978	-62.239862	
0.28168	-13.691421	-6.176293	-0.580207
-0.000350	-0.185004	-93.719923	
0.42251	-13.691421	-6.176293	-0.580207
-0.000350	-0.451497	-125.872203	
0.56335	-13.691421	-6.176293	-0.580207
-0.000350	-0.718588	-158.720919	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.623665	172.294606	0.852180
0.006773	0.519561	131.206589	
0.14084	4.623665	172.294606	0.852180
0.006773	0.164609	105.041408	
0.28168	4.623665	172.294606	0.852180
0.006773	0.227030	79.418287	
0.42251	4.623665	172.294606	0.852180
0.006773	0.550439	71.609664	
0.56335	4.623665	172.294606	0.852180
0.006773	0.902266	78.542872	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.895766	-25.194374	-0.842109
-0.006691	-0.521518	-19.251429	
0.14084	-19.895766	-25.194374	-0.842109
-0.006691	-0.169575	-57.142865	
0.28168	-19.895766	-25.194374	-0.842109
-0.006691	-0.238004	-95.592506	
0.42251	-19.895766	-25.194374	-0.842109
-0.006691	-0.580785	-137.426161	
0.56335	-19.895766	-25.194374	-0.842109
-0.006691	-0.931455	-206.284989	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.817712	142.185347	0.993724
0.005058	0.586610	136.713663	
0.14084	7.817712	142.185347	0.993724
0.005058	0.171373	139.324049	
0.28168	7.817712	142.185347	0.993724
0.005058	0.264675	142.316577	
0.42251	7.817712	142.185347	0.993724
0.005058	0.650031	158.181185	
0.56335	7.817712	142.185347	0.993724
0.005058	1.055294	184.725339	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1956

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.395986	-69.652565	-0.969203
-0.004963	-0.580178	-17.340562	
0.14084	-17.395986	-69.652565	-0.969203
-0.004963	-0.174542	-52.180138	
0.28168	-17.395986	-69.652565	-0.969203
-0.004963	-0.277380	-87.372442	
0.42251	-17.395986	-69.652565	-0.969203
-0.004963	-0.683016	-125.167179	
0.56335	-17.395986	-69.652565	-0.969203
-0.004963	-1.094982	-182.282781	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.290071	120.483467	1.169247
0.004383	0.677839	115.963033	
0.14084	9.290071	120.483467	1.169247
0.004383	0.189184	117.606593	
0.28168	9.290071	120.483467	1.169247
0.004383	0.311554	122.137242	
0.42251	9.290071	120.483467	1.169247
0.004383	0.768511	138.904134	
0.56335	9.290071	120.483467	1.169247
0.004383	1.241962	168.577743	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.878617	-79.921000	-1.131433
-0.004317	-0.664064	-39.571943	
0.14084	-15.878617	-79.921000	-1.131433
-0.004317	-0.190663	-60.190818	
0.28168	-15.878617	-79.921000	-1.131433
-0.004317	-0.327366	-82.568009	
0.42251	-15.878617	-79.921000	-1.131433
-0.004317	-0.808978	-108.295997	
0.56335	-15.878617	-79.921000	-1.131433
-0.004317	-1.295240	-153.631288	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.681202	54.130041	0.166833
0.004415	0.121789	134.556602	
0.14084	5.681202	54.130041	0.166833
0.004415	0.053468	129.723564	
0.28168	5.681202	54.130041	0.166833
0.004415	0.060454	125.138202	
0.42251	5.681202	54.130041	0.166833
0.004415	0.130174	132.352533	
0.56335	5.681202	54.130041	0.166833
0.004415	0.220000	149.157506	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.490194	-46.478830	-0.214742
-0.004396	-0.142539	-1.342093	
0.14084	-3.490194	-46.478830	-0.214742
-0.004396	-0.053683	-0.765498	
0.28168	-3.490194	-46.478830	-0.214742
-0.004396	-0.041431	-0.560941	
0.42251	-3.490194	-46.478830	-0.214742
-0.004396	-0.102065	-2.071310	
0.56335	-3.490194	-46.478830	-0.214742
-0.004396	-0.167856	-22.201322	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.030689	51.840063	0.511405
0.004483	0.309567	143.616577	
0.14084	9.030689	51.840063	0.511405
0.004483	0.096401	151.441922	
0.28168	9.030689	51.840063	0.511405
0.004483	0.149240	163.159678	
0.42251	9.030689	51.840063	0.511405
0.004483	0.351022	186.645218	
0.56335	9.030689	51.840063	0.511405
0.004483	0.572080	219.986446	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1957

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.618597	-85.388829	-0.527478
-0.004316	-0.315166	-10.437310	
0.14084	-4.618597	-85.388829	-0.527478
-0.004316	-0.095100	-5.746007	
0.28168	-4.618597	-85.388829	-0.527478
-0.004316	-0.138643	-3.524770	
0.42251	-4.618597	-85.388829	-0.527478
-0.004316	-0.344272	-3.536990	
0.56335	-4.618597	-85.388829	-0.527478
-0.004316	-0.555050	-22.756613	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.437981	111.757227	0.883129
0.003356	0.513358	139.782214	
0.14084	9.437981	111.757227	0.883129
0.003356	0.144616	129.825533	
0.28168	9.437981	111.757227	0.883129
0.003356	0.242103	144.757469	
0.42251	9.437981	111.757227	0.883129
0.003356	0.596975	169.503367	
0.56335	9.437981	111.757227	0.883129
0.003356	0.964627	201.162857	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.368369	-80.574864	-0.878340
-0.003176	-0.512589	-12.509731	
0.14084	-12.368369	-80.574864	-0.878340
-0.003176	-0.145302	-14.063505	
0.28168	-12.368369	-80.574864	-0.878340
-0.003176	-0.243189	-42.185705	
0.42251	-12.368369	-80.574864	-0.878340
-0.003176	-0.606673	-73.866897	
0.56335	-12.368369	-80.574864	-0.878340
-0.003176	-0.974251	-118.851676	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.178040	96.307653	1.109355
0.002948	0.636844	120.085754	
0.14084	11.178040	96.307653	1.109355
0.002948	0.172254	110.513984	
0.28168	11.178040	96.307653	1.109355
0.002948	0.304170	120.954322	
0.42251	11.178040	96.307653	1.109355
0.002948	0.752900	140.231513	
0.56335	11.178040	96.307653	1.109355
0.002948	1.212352	169.563652	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.668760	-86.058498	-1.096735
-0.002822	-0.630666	-43.328920	
0.14084	-10.668760	-86.058498	-1.096735
-0.002822	-0.171627	-36.853330	
0.28168	-10.668760	-86.058498	-1.096735
-0.002822	-0.306492	-52.056031	
0.42251	-10.668760	-86.058498	-1.096735
-0.002822	-0.766419	-70.466636	
0.56335	-10.668760	-86.058498	-1.096735
-0.002822	-1.229204	-102.838945	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.101060	5.317107	0.585531
0.000179	0.329051	6.204828	
0.14084	6.101060	5.317107	0.585531
0.000179	0.082908	4.344078	
0.28168	6.101060	5.317107	0.585531
0.000179	0.164078	2.603837	
0.42251	6.101060	5.317107	0.585531
0.000179	0.407996	1.478456	
0.56335	6.101060	5.317107	0.585531
0.000179	0.652251	1.962571	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1958

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.171738	-27.066508	-0.582383
-0.000239	-0.324282	-54.857989	
0.14084	-0.171738	-27.066508	-0.582383
-0.000239	-0.080462	-43.826524	
0.28168	-0.171738	-27.066508	-0.582383
-0.000239	-0.161889	-32.924955	
0.42251	-0.171738	-27.066508	-0.582383
-0.000239	-0.407841	-22.445862	
0.56335	-0.171738	-27.066508	-0.582383
-0.000239	-0.653106	-13.159842	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.273241	8.395807	0.955036
0.000583	0.533467	12.138173	
0.14084	9.273241	8.395807	0.955036
0.000583	0.133481	13.442082	
0.28168	9.273241	8.395807	0.955036
0.000583	0.260994	20.252717	
0.42251	9.273241	8.395807	0.955036
0.000583	0.648821	29.141268	
0.56335	9.273241	8.395807	0.955036
0.000583	1.037708	40.766097	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.527762	-58.022096	-0.926957
-0.000642	-0.517334	-72.871752	
0.14084	-2.527762	-58.022096	-0.926957
-0.000642	-0.129816	-54.103607	
0.28168	-2.527762	-58.022096	-0.926957
-0.000642	-0.266859	-38.550421	
0.42251	-2.527762	-58.022096	-0.926957
-0.000642	-0.667796	-24.409780	
0.56335	-2.527762	-58.022096	-0.926957
-0.000642	-1.067910	-14.349902	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.659297	6.420051	0.985348
0.000432	0.551997	71.910706	
0.14084	12.659297	6.420051	0.985348
0.000432	0.138740	96.130244	
0.28168	12.659297	6.420051	0.985348
0.000432	0.274984	124.255192	
0.42251	12.659297	6.420051	0.985348
0.000432	0.682170	153.871282	
0.56335	12.659297	6.420051	0.985348
0.000432	1.089823	185.705982	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.443498	-103.399315	-0.971873
-0.000368	-0.540931	-64.811765	
0.14084	-1.443498	-103.399315	-0.971873
-0.000368	-0.134511	-48.748428	
0.28168	-1.443498	-103.399315	-0.971873
-0.000368	-0.272659	-35.019635	
0.42251	-1.443498	-103.399315	-0.971873
-0.000368	-0.685953	-22.432214	
0.56335	-1.443498	-103.399315	-0.971873
-0.000368	-1.099142	-12.734219	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.148261	82.348523	1.093910
0.003085	0.630355	132.000039	
0.14084	13.148261	82.348523	1.093910
0.003085	0.171865	121.588820	
0.28168	13.148261	82.348523	1.093910
0.003085	0.307188	127.224693	
0.42251	13.148261	82.348523	1.093910
0.003085	0.756541	145.354467	
0.56335	13.148261	82.348523	1.093910
0.003085	1.217663	171.637180	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1959

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.743553	-90.245692	-1.099682
-0.002991	-0.629888	-55.820208	
0.14084	-7.743553	-90.245692	-1.099682
-0.002991	-0.168723	-41.593704	
0.28168	-7.743553	-90.245692	-1.099682
-0.002991	-0.300276	-43.093638	
0.42251	-7.743553	-90.245692	-1.099682
-0.002991	-0.753554	-51.947273	
0.56335	-7.743553	-90.245692	-1.099682
-0.002991	-1.209851	-74.366735	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.064526	177.150248	0.865234
0.006856	0.499087	140.705735	
0.14084	13.064526	177.150248	0.865234
0.006856	0.140631	147.161759	
0.28168	13.064526	177.150248	0.865234
0.006856	0.229039	157.469784	
0.42251	13.064526	177.150248	0.865234
0.006856	0.563019	182.684007	
0.56335	13.064526	177.150248	0.865234
0.006856	0.911057	217.643826	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.732339	-102.707994	-0.830149
-0.006769	-0.482362	-65.497393	
0.14084	-19.732339	-102.707994	-0.830149
-0.006769	-0.134284	-56.993210	
0.28168	-19.732339	-102.707994	-0.830149
-0.006769	-0.237823	-94.775568	
0.42251	-19.732339	-102.707994	-0.830149
-0.006769	-0.600721	-138.895337	
0.56335	-19.732339	-102.707994	-0.830149
-0.006769	-0.963499	-204.634427	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.148261	172.294606	1.169247
0.006773	0.677839	143.616577	
0.14084	13.148261	172.294606	1.169247
0.006773	0.189184	151.441922	
0.28168	13.148261	172.294606	1.169247
0.006773	0.311554	163.159678	
0.42251	13.148261	172.294606	1.169247
0.006773	0.768511	186.645218	
0.56335	13.148261	172.294606	1.169247
0.006773	1.241962	219.986446	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.895766	-103.399315	-1.131433
-0.006691	-0.664064	-72.871752	
0.14084	-19.895766	-103.399315	-1.131433
-0.006691	-0.190663	-62.239862	
0.28168	-19.895766	-103.399315	-1.131433
-0.006691	-0.327366	-95.592506	
0.42251	-19.895766	-103.399315	-1.131433
-0.006691	-0.808978	-137.426161	
0.56335	-19.895766	-103.399315	-1.131433
-0.006691	-1.295240	-206.284989	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.148261	177.150248	1.169247
0.006856	0.677839	143.616577	
0.14084	13.148261	177.150248	1.169247
0.006856	0.189184	151.441922	
0.28168	13.148261	177.150248	1.169247
0.006856	0.311554	163.159678	
0.42251	13.148261	177.150248	1.169247
0.006856	0.768511	186.645218	
0.56335	13.148261	177.150248	1.169247
0.006856	1.241962	219.986446	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1960

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.895766	-103.399315	-1.131433
-0.006769	-0.664064	-72.871752	
0.14084	-19.895766	-103.399315	-1.131433
-0.006769	-0.190663	-62.239862	
0.28168	-19.895766	-103.399315	-1.131433
-0.006769	-0.327366	-95.592506	
0.42251	-19.895766	-103.399315	-1.131433
-0.006769	-0.808978	-138.895337	
0.56335	-19.895766	-103.399315	-1.131433
-0.006769	-1.295240	-206.284989	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.148261	177.150248	1.169247
0.006856	0.677839	143.616577	
0.14084	13.148261	177.150248	1.169247
0.006856	0.189184	151.441922	
0.28168	13.148261	177.150248	1.169247
0.006856	0.311554	163.159678	
0.42251	13.148261	177.150248	1.169247
0.006856	0.768511	186.645218	
0.56335	13.148261	177.150248	1.169247
0.006856	1.241962	219.986446	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.895766	-103.399315	-1.131433
-0.006769	-0.664064	-72.871752	
0.14084	-19.895766	-103.399315	-1.131433
-0.006769	-0.190663	-62.239862	
0.28168	-19.895766	-103.399315	-1.131433
-0.006769	-0.327366	-95.592506	
0.42251	-19.895766	-103.399315	-1.131433
-0.006769	-0.808978	-138.895337	
0.56335	-19.895766	-103.399315	-1.131433
-0.006769	-1.295240	-206.284989	

ELEM 170 ========== LENGTH = 2.977605

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.358350	73.830806	0.504741
0.000260	0.565330	101.367001	
0.57744	0.358350	73.830806	0.504741
0.000260	0.353642	70.454734	
0.71830	0.358350	73.830806	0.504741
0.000260	0.141972	39.621049	
0.85915	0.358350	73.830806	0.504741
0.000260	0.068688	9.097730	
1.00000	0.358350	73.830806	0.504741
0.000260	0.272879	2.231079	

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -10.897858 -8.571523 -0.486804
-0.000952 -0.543790 -18.371946
0.57744 -10.897858 -8.571523 -0.486804
-0.000952 -0.339633 -14.915278
0.71830 -10.897858 -8.571523 -0.486804
-0.000952 -0.135480 -11.831138
0.85915 -10.897858 -8.571523 -0.486804
-0.000952 -0.069795 -8.935845
1.00000 -10.897858 -8.571523 -0.486804
-0.000952 -0.281426 -23.728233

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 4.955301 105.015335 0.699061
0.006530 0.757895 194.908203
0.57744 4.955301 105.015335 0.699061
0.006530 0.465988 153.788245
0.71830 4.955301 105.015335 0.699061
0.006530 0.197050 126.522848
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1961

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85915 4.955301 105.015335 0.699061
0.006530 0.118012 117.010215
1.00000 4.955301 105.015335 0.699061
0.006530 0.392782 121.757793

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -13.525001 -91.700288 -0.675990
-0.007383 -0.742090 -47.292685
0.57744 -13.525001 -91.700288 -0.675990
-0.007383 -0.458583 -22.958146
0.71830 -13.525001 -91.700288 -0.675990
-0.007383 -0.178788 -16.734915
0.85915 -13.525001 -91.700288 -0.675990
-0.007383 -0.122724 -12.474987
1.00000 -13.525001 -91.700288 -0.675990
-0.007383 -0.414906 -11.785772

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 8.195579 94.090525 0.758897
0.004893 0.830408 182.599058
0.57744 8.195579 94.090525 0.758897
0.004893 0.512998 146.687372
0.71830 8.195579 94.090525 0.758897
0.004893 0.211220 121.083396
0.85915 8.195579 94.090525 0.758897
0.004893 0.116774 109.764747
1.00000 8.195579 94.090525 0.758897
0.004893 0.417028 120.409222

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -12.227647 -118.898149 -0.729990
-0.005453 -0.808006 -91.018176
0.57744 -12.227647 -118.898149 -0.729990
-0.005453 -0.501878 -50.201852
0.71830 -12.227647 -118.898149 -0.729990
-0.005453 -0.198228 -20.205842
0.85915 -12.227647 -118.898149 -0.729990
-0.005453 -0.124375 -12.579961
1.00000 -12.227647 -118.898149 -0.729990
-0.005453 -0.442779 -11.085158

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 9.692835 81.684778 0.850827
0.004311 0.935838 160.127436
0.57744 9.692835 81.684778 0.850827
0.004311 0.579720 128.827523
0.71830 9.692835 81.684778 0.850827
0.004311 0.236752 106.081892
0.85915 9.692835 81.684778 0.850827
0.004311 0.128636 95.234367
1.00000 9.692835 81.684778 0.850827
0.004311 0.471863 102.701404

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -11.063466 -116.008323 -0.829862
-0.004528 -0.920647 -125.292295
0.57744 -11.063466 -116.008323 -0.829862
-0.004528 -0.572599 -84.356388
0.71830 -11.063466 -116.008323 -0.829862
-0.004528 -0.226656 -52.922886
0.85915 -11.063466 -116.008323 -0.829862
-0.004528 -0.136347 -40.380804
1.00000 -11.063466 -116.008323 -0.829862
-0.004528 -0.491561 -32.570381

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 6.029293 9.111848 0.153991
0.005493 0.154822 50.965303
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1962

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57744 6.029293 9.111848 0.153991
0.005493 0.091307 50.712963
0.71830 6.029293 9.111848 0.153991
0.005493 0.047089 62.474950
0.85915 6.029293 9.111848 0.153991
0.005493 0.042274 91.651702
1.00000 6.029293 9.111848 0.153991
0.005493 0.090324 131.919278

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -0.626360 -100.528508 -0.136737
-0.005486 -0.143637 -43.908687
0.57744 -0.626360 -100.528508 -0.136737
-0.005486 -0.086300 -13.761988
0.71830 -0.626360 -100.528508 -0.136737
-0.005486 -0.032067 -3.451142
0.85915 -0.626360 -100.528508 -0.136737
-0.005486 -0.043480 -2.623485
1.00000 -0.626360 -100.528508 -0.136737
-0.005486 -0.105531 -1.873785

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 10.262838 9.052804 0.359900
0.005501 0.380383 52.720457
0.57744 10.262838 9.052804 0.359900
0.005501 0.230433 52.929099
0.71830 10.262838 9.052804 0.359900
0.005501 0.098720 64.879713
0.85915 10.262838 9.052804 0.359900
0.005501 0.065954 93.116045
1.00000 10.262838 9.052804 0.359900
0.005501 0.206007 136.786562

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -1.297073 -135.515777 -0.350150
-0.005194 -0.381861 -103.655430
0.57744 -1.297073 -135.515777 -0.350150
-0.005194 -0.235004 -57.346915
0.71830 -1.297073 -135.515777 -0.350150
-0.005194 -0.091067 -24.015338
0.85915 -1.297073 -135.515777 -0.350150
-0.005194 -0.074824 -15.891702
1.00000 -1.297073 -135.515777 -0.350150
-0.005194 -0.223451 -11.904292

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 9.434530 83.115720 0.657109
0.004025 0.719614 192.462903
0.57744 9.434530 83.115720 0.657109
0.004025 0.444723 160.885174
0.71830 9.434530 83.115720 0.657109
0.004025 0.183075 137.896495
0.85915 9.434530 83.115720 0.657109
0.004025 0.101412 127.255477
1.00000 9.434530 83.115720 0.657109
0.004025 0.364585 131.230999

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -9.479497 -118.070055 -0.638759
-0.004316 -0.707282 -103.752046
0.57744 -9.479497 -118.070055 -0.638759
-0.004316 -0.439381 -61.744199
0.71830 -9.479497 -118.070055 -0.638759
-0.004316 -0.173507 -29.321865
0.85915 -9.479497 -118.070055 -0.638759
-0.004316 -0.109273 -20.275213
1.00000 -9.479497 -118.070055 -0.638759
-0.004316 -0.382775 -14.655542
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1963

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 10.775461 73.393446 0.783039
0.003586 0.862472 170.975869
0.57744 10.775461 73.393446 0.783039
0.003586 0.534654 142.833089
0.71830 10.775461 73.393446 0.783039
0.003586 0.217671 122.093233
0.85915 10.775461 73.393446 0.783039
0.003586 0.118308 111.555607
1.00000 10.775461 73.393446 0.783039
0.003586 0.438197 113.155458

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -8.135092 -111.742203 -0.771949
-0.003612 -0.857087 -136.726461
0.57744 -8.135092 -111.742203 -0.771949
-0.003612 -0.533328 -96.197352
0.71830 -8.135092 -111.742203 -0.771949
-0.003612 -0.211208 -63.653407
0.85915 -8.135092 -111.742203 -0.771949
-0.003612 -0.124066 -50.447962
1.00000 -8.135092 -111.742203 -0.771949
-0.003612 -0.451200 -40.436261

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 4.734449 7.149066 0.371141
0.000328 0.414339 18.872404
0.57744 4.734449 7.149066 0.371141
0.000328 0.258683 15.878263
0.71830 4.734449 7.149066 0.371141
0.000328 0.103042 12.902550
0.85915 4.734449 7.149066 0.371141
0.000328 0.053163 9.949584
1.00000 4.734449 7.149066 0.371141
0.000328 0.211909 7.123909

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -0.118394 -19.126717 -0.378262
-9.62E-06 -0.422664 -77.329157
0.57744 -0.118394 -19.126717 -0.378262
-9.62E-06 -0.264021 -69.439145
0.71830 -0.118394 -19.126717 -0.378262
-9.62E-06 -0.105376 -61.646316
0.85915 -0.118394 -19.126717 -0.378262
-9.62E-06 -0.052900 -53.875174
1.00000 -0.118394 -19.126717 -0.378262
-9.62E-06 -0.208488 -46.124208

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 8.419824 9.983988 0.601383
0.000841 0.670321 25.846103
0.57744 8.419824 9.983988 0.601383
0.000841 0.416137 21.772272
0.71830 8.419824 9.983988 0.601383
0.000841 0.166662 18.133650
0.85915 8.419824 9.983988 0.601383
0.000841 0.086928 15.685344
1.00000 8.419824 9.983988 0.601383
0.000841 0.342646 14.109504

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -1.495494 -47.068550 -0.610105
-0.000232 -0.680869 -133.635180
0.57744 -1.495494 -47.068550 -0.610105
-0.000232 -0.429485 -114.865371
0.71830 -1.495494 -47.068550 -0.610105
-0.000232 -0.169192 -97.256353
0.85915 -1.495494 -47.068550 -0.610105
-0.000232 -0.091520 -79.998024
1.00000 -1.495494 -47.068550 -0.610105
-0.000232 -0.338554 -63.418414
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1964

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 11.715492 9.057232 0.634622
0.001246 0.706224 42.674976
0.57744 11.715492 9.057232 0.634622
0.001246 0.440124 40.981517
0.71830 11.715492 9.057232 0.634622
0.001246 0.175970 41.245107
0.85915 11.715492 9.057232 0.634622
0.001246 0.092683 45.891726
1.00000 11.715492 9.057232 0.634622
0.001246 0.361963 65.148811

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -0.828041 -99.441926 -0.642834
-0.000594 -0.716474 -161.640207
0.57744 -0.828041 -99.441926 -0.642834
-0.000594 -0.446864 -120.877401
0.71830 -0.828041 -99.441926 -0.642834
-0.000594 -0.177455 -82.506720
0.85915 -0.828041 -99.441926 -0.642834
-0.000594 -0.094187 -68.162814
1.00000 -0.828041 -99.441926 -0.642834
-0.000594 -0.358413 -57.025072

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 12.238908 58.211816 0.755208
0.004161 0.828823 153.025426
0.57744 12.238908 58.211816 0.755208
0.004161 0.512787 131.537115
0.71830 12.238908 58.211816 0.755208
0.004161 0.209571 118.350207
0.85915 12.238908 58.211816 0.755208
0.004161 0.116791 116.953287
1.00000 12.238908 58.211816 0.755208
0.004161 0.426325 127.307882

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -5.552737 -118.346075 -0.749083
-0.003906 -0.830683 -149.446684
0.57744 -5.552737 -118.346075 -0.749083
-0.003906 -0.516547 -107.292550
0.71830 -5.552737 -118.346075 -0.749083
-0.003906 -0.204387 -74.364161
0.85915 -5.552737 -118.346075 -0.749083
-0.003906 -0.122945 -60.590223
1.00000 -5.552737 -118.346075 -0.749083
-0.003906 -0.438150 -49.914012

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 0.467062 73.276350 0.856762
0.000222 0.948015 98.176933
0.57744 0.467062 73.276350 0.856762
0.000222 0.588706 67.664397
0.71830 0.467062 73.276350 0.856762
0.000222 0.229423 37.464746
0.85915 0.467062 73.276350 0.856762
0.000222 0.087977 8.604283
1.00000 0.467062 73.276350 0.856762
0.000222 0.348791 2.501007

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -11.402057 -10.330593 -0.620401
-0.000813 -0.692279 -23.281274
0.57744 -11.402057 -10.330593 -0.620401
-0.000813 -0.432057 -19.153201
0.71830 -11.402057 -10.330593 -0.620401
-0.000813 -0.171519 -15.477482
0.85915 -11.402057 -10.330593 -0.620401
-0.000813 -0.129934 -12.991891
1.00000 -11.402057 -10.330593 -0.620401
-0.000813 -0.489099 -31.887718
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1965

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 6.141563 102.449170 1.141781
0.006501 1.240584 193.664922
0.57744 6.141563 102.449170 1.141781
0.006501 0.762551 155.895254
0.71830 6.141563 102.449170 1.141781
0.006501 0.309413 131.116872
0.85915 6.141563 102.449170 1.141781
0.006501 0.160280 122.678139
1.00000 6.141563 102.449170 1.141781
0.006501 0.520253 129.214922

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -13.501652 -90.635384 -0.893586
-0.007219 -0.983315 -57.197215
0.57744 -13.501652 -90.635384 -0.893586
-0.007219 -0.609407 -28.008939
0.71830 -13.501652 -90.635384 -0.893586
-0.007219 -0.237975 -20.497947
0.85915 -13.501652 -90.635384 -0.893586
-0.007219 -0.198558 -15.382283
1.00000 -13.501652 -90.635384 -0.893586
-0.007219 -0.676813 -21.278053

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 8.624443 91.621133 1.237226
0.004977 1.356705 176.914048
0.57744 8.624443 91.621133 1.237226
0.004977 0.838302 143.947577
0.71830 8.624443 91.621133 1.237226
0.004977 0.337632 121.951450
0.85915 8.624443 91.621133 1.237226
0.004977 0.152633 118.800753
1.00000 8.624443 91.621133 1.237226
0.004977 0.534469 133.283860

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -12.273113 -114.664994 -0.928188
-0.005468 -1.026444 -90.179023
0.57744 -12.273113 -114.664994 -0.928188
-0.005468 -0.637890 -49.713214
0.71830 -12.273113 -114.664994 -0.928188
-0.005468 -0.251050 -25.324656
0.85915 -12.273113 -114.664994 -0.928188
-0.005468 -0.201975 -15.361000
1.00000 -12.273113 -114.664994 -0.928188
-0.005468 -0.720094 -19.618134

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 9.749463 80.224326 1.375531
0.004336 1.515383 156.965473
0.57744 9.749463 80.224326 1.375531
0.004336 0.938654 127.882475
0.71830 9.749463 80.224326 1.375531
0.004336 0.376831 107.928191
0.85915 9.749463 80.224326 1.375531
0.004336 0.165455 103.621222
1.00000 9.749463 80.224326 1.375531
0.004336 0.596792 113.951534

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -11.117408 -114.891338 -1.042812
-0.004541 -1.156002 -130.616566
0.57744 -11.117408 -114.891338 -1.042812
-0.004541 -0.719185 -88.946436
0.71830 -11.117408 -114.891338 -1.042812
-0.004541 -0.283639 -60.807169
0.85915 -11.117408 -114.891338 -1.042812
-0.004541 -0.218206 -45.078519
1.00000 -11.117408 -114.891338 -1.042812
-0.004541 -0.793221 -41.048462
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1966

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 6.641274 9.548167 0.207981
0.004598 0.217664 54.460558
0.57744 6.641274 9.548167 0.207981
0.004598 0.130827 56.412912
0.71830 6.641274 9.548167 0.207981
0.004598 0.061672 69.858270
0.85915 6.641274 9.548167 0.207981
0.004598 0.052940 97.889076
1.00000 6.641274 9.548167 0.207981
0.004598 0.129291 131.535704

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -0.630721 -88.492457 -0.202167
-0.004608 -0.212417 -43.576261
0.57744 -0.630721 -88.492457 -0.202167
-0.004608 -0.128173 -14.527205
0.71830 -0.630721 -88.492457 -0.202167
-0.004608 -0.046211 -3.869353
0.85915 -0.630721 -88.492457 -0.202167
-0.004608 -0.048124 -2.872221
1.00000 -0.630721 -88.492457 -0.202167
-0.004608 -0.135087 -1.903515

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 9.918072 9.987970 0.546570
0.004702 0.594106 53.541440
0.57744 9.918072 9.987970 0.546570
0.004702 0.365077 55.224861
0.71830 9.918072 9.987970 0.546570
0.004702 0.153156 67.942681
0.85915 9.918072 9.987970 0.546570
0.004702 0.079888 99.998896
1.00000 9.918072 9.987970 0.546570
0.004702 0.246335 139.738760

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -1.378728 -122.285271 -0.415331
-0.004473 -0.454148 -96.739560
0.57744 -1.378728 -122.285271 -0.415331
-0.004473 -0.280455 -53.275518
0.71830 -1.378728 -122.285271 -0.415331
-0.004473 -0.109252 -25.740943
0.85915 -1.378728 -122.285271 -0.415331
-0.004473 -0.097899 -16.072463
1.00000 -1.378728 -122.285271 -0.415331
-0.004473 -0.324516 -11.491081

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 9.230133 81.564725 1.032218
0.003195 1.140249 192.460276
0.57744 9.230133 81.564725 1.032218
0.003195 0.707572 162.033512
0.71830 9.230133 81.564725 1.032218
0.003195 0.285966 141.458767
0.85915 9.230133 81.564725 1.032218
0.003195 0.126389 135.096242
1.00000 9.230133 81.564725 1.032218
0.003195 0.454414 135.775061

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -9.019400 -106.582502 -0.793775
-0.003437 -0.879685 -72.678330
0.57744 -9.019400 -106.582502 -0.793775
-0.003437 -0.547557 -60.500823
0.71830 -9.019400 -106.582502 -0.793775
-0.003437 -0.216042 -32.747508
0.85915 -9.019400 -106.582502 -0.793775
-0.003437 -0.161877 -21.609378
1.00000 -9.019400 -106.582502 -0.793775
-0.003437 -0.592045 -14.907766
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1967

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 10.593631 73.135001 1.218595
0.002860 1.352134 173.820199
0.57744 10.593631 73.135001 1.218595
0.002860 0.841162 147.049911
0.71830 10.593631 73.135001 1.218595
0.002860 0.339286 126.997768
0.85915 10.593631 73.135001 1.218595
0.002860 0.148436 119.632203
1.00000 10.593631 73.135001 1.218595
0.002860 0.549463 118.209080

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -7.792852 -105.530864 -0.966038
-0.002883 -1.073134 -141.894095
0.57744 -7.792852 -105.530864 -0.966038
-0.002883 -0.668512 -102.595967
0.71830 -7.792852 -105.530864 -0.966038
-0.002883 -0.264474 -72.634925
0.85915 -7.792852 -105.530864 -0.966038
-0.002883 -0.183535 -56.399231
1.00000 -7.792852 -105.530864 -0.966038
-0.002883 -0.693123 -44.169337

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 5.061174 9.003463 0.543834
0.000274 0.611019 23.996032
0.57744 5.061174 9.003463 0.543834
0.000274 0.382941 20.226076
0.71830 5.061174 9.003463 0.543834
0.000274 0.154773 16.464372
0.85915 5.061174 9.003463 0.543834
0.000274 0.069201 12.736937
1.00000 5.061174 9.003463 0.543834
0.000274 0.273026 9.084451

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -0.170585 -23.510950 -0.486675

```
-6.56E-06   -0.543162   -91.477031
0.57744   -0.170585   -23.510950   -0.486675
-6.56E-06   -0.338878   -81.695219
0.71830   -0.170585   -23.510950   -0.486675
-6.56E-06   -0.338878   -71.984018
0.85915   -0.170585   -23.510950   -0.486675
-6.56E-06   -0.073295   -62.336452
1.00000   -0.170585   -23.510950   -0.486675
-6.56E-06   -0.301821   -52.740434

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43659    8.207096   12.326535    0.931269
 0.000667    1.041886   31.928057
0.57744    8.207096   12.326535    0.931269
 0.000667    0.651150   26.936370
0.71830    8.207096   12.326535    0.931269
 0.000667    0.261156   22.349450
0.85915    8.207096   12.326535    0.931269
 0.000667    0.110550   18.362579
1.00000    8.207096   12.326535    0.931269
 0.000667    0.432841   15.425863

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43659   -1.634785   -52.902842   -0.769335
-0.000156   -0.858493  -152.266483
0.57744   -1.634785   -52.902842   -0.769335
-0.000156   -0.335714  -130.622060
0.71830   -1.634785   -52.902842   -0.769335
-0.000156   -0.212655  -109.762739
0.85915   -1.634785   -52.902842   -0.769335
-0.000156   -0.133922   -89.892928
1.00000   -1.634785   -52.902842   -0.769335
-0.000156   -0.522382   -70.976714
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1968

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43659   11.283100   11.043551    0.947898
 0.000773    1.063726   44.864120
0.57744   11.283100   11.043551    0.947898
 0.000773    0.666035   43.262410
0.71830   11.283100   11.043551    0.947898
 0.000773    0.268665   44.657110
0.85915   11.283100   11.043551    0.947898
 0.000773    0.111243   54.747050
1.00000   11.283100   11.043551    0.947898
 0.000773    0.432937   71.975310

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43659   -0.973911   -96.341553   -0.768145
-0.000244   -0.856625  -167.913289
0.57744   -0.973911   -96.341553   -0.768145
-0.000244   -0.534360  -130.060461
0.71830   -0.973911   -96.341553   -0.768145
-0.000244   -0.212206   -95.004832
0.85915   -0.973911   -96.341553   -0.768145
-0.000244   -0.131283   -77.503304
1.00000   -0.973911   -96.341553   -0.768145
-0.000244   -0.527056   -63.400340

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43659   12.179780   59.421629    1.142233
 0.003105    1.269007  160.354882
0.57744   12.179780   59.421629    1.142233
 0.003105    0.790099  139.581065
0.71830   12.179780   59.421629    1.142233
 0.003105    0.321184  125.977040
0.85915   12.179780   59.421629    1.142233
 0.003105    0.146709  125.440698
1.00000   12.179780   59.421629    1.142233
 0.003105    0.536961  130.764414

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43659   -5.328340  -110.023123   -0.942952
-0.002895   -1.047022  -157.153380
0.57744   -5.328340  -110.023123   -0.942952
-0.002895   -0.651611  -116.275351
0.71830   -5.328340  -110.023123   -0.942952
-0.002895   -0.257575   -85.512416
0.85915   -5.328340  -110.023123   -0.942952
-0.002895   -0.171154   -69.021459
1.00000   -5.328340  -110.023123   -0.942952
-0.002895   -0.648540   -55.557825

COMB       DB ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43659   12.238908  105.015335    0.850827
 0.006530    0.935838  194.908203
0.57744   12.238908  105.015335    0.850827
 0.006530    0.579720  160.885174
0.71830   12.238908  105.015335    0.850827
 0.006530    0.236752  137.896495
0.85915   12.238908  105.015335    0.850827
 0.006530    0.129096  127.255477
1.00000   12.238908  105.015335    0.850827
 0.006530    0.471863  136.786562

COMB       DB ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43659  -13.525001  -135.515777   -0.829862
-0.007383   -0.920647  -161.640207
0.57744  -13.525001  -135.515777   -0.829862
-0.007383   -0.572599  -120.877401
0.71830  -13.525001  -135.515777   -0.829862
-0.007383   -0.226656   -97.256353
0.85915  -13.525001  -135.515777   -0.829862
-0.007383   -0.136347   -79.998024
1.00000  -13.525001  -135.515777   -0.829862
-0.007383   -0.491561   -63.418414
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1969

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43659   12.179780  102.449170    1.375531
 0.006501  193.664922
0.57744   12.179780  102.449170    1.375531
 0.006501    0.938654  162.935512
0.71830   12.179780  102.449170    1.375531
 0.006501    0.376831  141.458767
0.85915   12.179780  102.449170    1.375531
 0.006501    0.165455  135.096242
1.00000   12.179780  102.449170    1.375531
 0.006501    0.596792  139.738760

COMB       DL ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43659  -13.501652  -122.285271   -1.042812
-0.007219   -1.156002  -167.913289
0.57744  -13.501652  -122.285271   -1.042812
-0.007219   -0.719185  -130.620260
0.71830  -13.501652  -122.285271   -1.042812
-0.007219   -0.283639  -109.762739
0.85915  -13.501652  -122.285271   -1.042812
-0.007219   -0.218206   -89.892928
1.00000  -13.501652  -122.285271   -1.042812
-0.007219   -0.793221   -70.976714

COMB       CAR ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43659   12.238908  105.015335    1.375531
 0.006530    1.515383  194.908203
0.57744   12.238908  105.015335    1.375531
 0.006530    0.938654  162.935512
0.71830   12.238908  105.015335    1.375531
 0.006530    0.376831  141.458767
0.85915   12.238908  105.015335    1.375531
 0.006530    0.165455  135.096242
1.00000   12.238908  105.015335    1.375531
 0.006530    0.596792  139.738760

COMB       CAR ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43659  -13.525001  -135.515777   -1.042812
-0.007383   -1.156002  -167.913289
0.57744  -13.525001  -135.515777   -1.042812
-0.007383   -0.719185  -130.620260
0.71830  -13.525001  -135.515777   -1.042812
-0.007383   -0.283639  -109.762739
0.85915  -13.525001  -135.515777   -1.042812
-0.007383   -0.218206   -89.892928
1.00000  -13.525001  -135.515777   -1.042812
-0.007383   -0.793221   -70.976714

COMB  DESIGN ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43659   12.238908  105.015335    1.375531
 0.006530    0.938654  162.935512
0.57744   12.238908  105.015335    1.375531
 0.006530    0.938654  162.935512
0.71830   12.238908  105.015335    1.375531
 0.006530    0.376831  141.458767
0.85915   12.238908  105.015335    1.375531
 0.006530    0.165455  135.096242
1.00000   12.238908  105.015335    1.375531
 0.006530    0.596792  139.738760

COMB  DESIGN ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43659  -13.525001  -135.515777   -1.042812
-0.007383   -1.156002  -167.913289
0.57744  -13.525001  -135.515777   -1.042812
-0.007383   -0.719185  -130.620260
0.71830  -13.525001  -135.515777   -1.042812
-0.007383   -0.283639  -109.762739
0.85915  -13.525001  -135.515777   -1.042812
-0.007383   -0.218206   -89.892928
1.00000  -13.525001  -135.515777   -1.042812
-0.007383   -0.793221   -70.976714
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1970

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       171 ================== LENGTH
=     2.977665

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.363473   73.311757    0.524642
 7.19E-06    0.297244    2.228186
0.14085    0.363473   73.311757    0.524642
 7.19E-06    0.077128    2.709543
0.28171    0.363473   73.311757    0.524642
 7.19E-06    0.136312    3.910889
0.42256    0.363473   73.311757    0.524642
 7.19E-06    0.344388    7.088024
0.56342    0.363473   73.311757    0.524642
 7.19E-06    0.552678   10.542077

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -10.850359   -8.507906   -0.496618
-0.000871   -0.280494  -23.761784
0.14085  -10.850359   -8.507906   -0.496618
-0.000871   -0.072178  -54.085241
0.28171  -10.850359   -8.507906   -0.496618
-0.000871   -0.142803  -84.411673
0.42256  -10.850359   -8.507906   -0.496618
-0.000871   -0.362894  -115.416399
0.56342  -10.850359   -8.507906   -0.496618
-0.000871   -0.582933  -146.129763

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.504501  170.454802    0.735937
 0.006329    0.444620  122.130099
0.14085    2.504501  170.454802    0.735937
 0.006329    0.136347   96.931661
0.28171    2.504501  170.454802    0.735937
 0.006329    0.179418   73.499578
0.42256    2.504501  170.454802    0.735937
 0.006329    0.450891   69.493294
0.56342    2.504501  170.454802    0.735937
 0.006329    0.723831   78.920985

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -17.667626  -30.456223   -0.650760
-0.007365   -0.380980  -11.822126
0.14085  -17.667626  -30.456223   -0.650760
-0.007365   -0.119227   -50.280053
0.28171  -17.667626  -30.456223   -0.650760
-0.007365   -0.199238   -89.342226
0.42256  -17.667626  -30.456223   -0.650760
-0.007365   -0.484785  -131.129454
0.56342  -17.667626  -30.456223   -0.650760
-0.007365   -0.791263  -194.321390

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    6.620875  138.442075    0.806131
 0.004475    0.477343  120.631808
0.14085    6.620875  138.442075    0.806131
 0.004475    0.139419  126.528871
0.28171    6.620875  138.442075    0.806131
 0.004475    0.199326  134.193522
0.42256    6.620875  138.442075    0.806131
 0.004475    0.502969  155.242968
0.56342    6.620875  138.442075    0.806131
 0.004475    0.806607  185.496511

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -15.026223   -77.757638   -0.723958
-0.005361   -0.416846  -11.115124
0.14085  -15.026223   -77.757638   -0.723958
-0.005361   -0.120587   -46.988331
0.28171  -15.026223   -77.757638   -0.723958
-0.005361   -0.216872   -83.238709
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1971

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.42256  -15.026223   -77.757638   -0.723958
-0.005361   -0.539282  -121.263646
0.56342  -15.026223   -77.757638   -0.723958
-0.005361   -0.875909  -173.802185

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.421995  118.510794    0.891459
 0.004130    0.520957  102.892978
0.14085    8.421995  118.510794    0.891459
 0.004130    0.147183  106.709253
0.28171    8.421995  118.510794    0.891459
 0.004130    0.227776  114.818085
0.42256    8.421995  118.510794    0.891459
 0.004130    0.574243  135.300073
0.56342    8.421995  118.510794    0.891459
 0.004130    0.920710  166.019333

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -13.382457   -82.123079   -0.826059
-0.004410   -0.472495  -32.608389
0.14085  -13.382457   -82.123079   -0.826059
-0.004410   -0.132104   -55.986854
0.28171  -13.382457   -82.123079   -0.826059
-0.004410   -0.241766   -80.300216
0.42256  -13.382457   -82.123079   -0.826059
-0.004410   -0.602642  -107.391133
0.56342  -13.382457   -82.123079   -0.826059
-0.004410   -0.975313  -148.070992

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.022627   64.551837    0.192593
 0.005167    0.133668  132.218095
0.14085    4.022627   64.551837    0.192593
 0.005167    0.053266  124.014987
0.28171    4.022627   64.551837    0.192593
 0.005167    0.032189  116.091964
0.42256    4.022627   64.551837    0.192593
 0.005167    0.081124  123.386259
0.56342    4.022627   64.551837    0.192593
 0.005167    0.130035  141.639684

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.149777  -49.635978   -0.116615
-0.005286   -0.076518   -1.866441
0.14085   -4.149777  -49.635978   -0.116615
-0.005286   -0.036761   -1.191569
0.28171   -4.149777  -49.635978   -0.116615
-0.005286   -0.050127   -0.880506
0.42256   -4.149777  -49.635978   -0.116615
-0.005286   -0.111562   -2.803105
0.56342   -4.149777  -49.635978   -0.116615
-0.005286   -0.190523   -22.623389

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.466913   60.661312    0.391359
 0.005168    0.244680  137.049899
0.14085    8.466913   60.661312    0.391359
 0.005168    0.080825  142.745662
0.28171    8.466913   60.661312    0.391359
 0.005168    0.091355  152.215495
0.42256    8.466913   60.661312    0.391359
 0.005168    0.228819  176.122153
0.56342    8.466913   60.661312    0.391359
 0.005168    0.366301  210.766822

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.569811   -88.646974   -0.327779
-0.005007   -0.193745   -11.901503
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1972

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.14085   -4.569811   -88.646974   -0.327779
-0.005007   -0.064749   -7.960679
0.28171   -4.569811   -88.646974   -0.327779
-0.005007   -0.104206   -5.195687
0.42256   -4.569811   -88.646974   -0.327779
-0.005007   -0.250382   -6.260116
0.56342   -4.569811   -88.646974   -0.327779
-0.005007   -0.412840   -25.253491

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.188333  118.941116    0.701057
 0.003887    0.414024  131.378326
0.14085    8.188333  118.941116    0.701057
 0.003887    0.120159  123.036593
0.28171    8.188333  118.941116    0.701057
 0.003887    0.174357  135.943750
0.42256    8.188333  118.941116    0.701057
 0.003887    0.439595  161.145758
0.56342    8.188333  118.941116    0.701057
 0.003887    0.704804  194.478329

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -11.742917   -85.076717   -0.632316
-0.004288   -0.363168  -14.644422
0.14085  -11.742917   -85.076717   -0.632316
-0.004288   -0.103329  -16.991901
0.28171  -11.742917   -85.076717   -0.632316
-0.004288   -0.188613   -46.234519
0.42256  -11.742917   -85.076717   -0.632316
-0.004288   -0.469945   -78.554129
0.56342  -11.742917   -85.076717   -0.632316
-0.004288   -0.762789  -123.824473

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    9.766237  103.436778    0.820176
 0.003640    0.477538  113.284701
0.14085    9.766237  103.436778    0.820176
 0.003640    0.133646  104.588558
0.28171    9.766237  103.436778    0.820176
 0.003640    0.212145  113.347715
0.42256    9.766237  103.436778    0.820176
 0.003640    0.534896  133.584436
0.56342    9.766237  103.436778    0.820176
 0.003640    0.857564  162.292555

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -10.027816   -84.183588   -0.769318
-0.003574   -0.439092   -40.438317
0.14085  -10.027816   -84.183588   -0.769318
-0.003574   -0.121335   -37.019708
0.28171  -10.027816   -84.183588   -0.769318
-0.003574   -0.222643   -55.881638
0.42256  -10.027816   -84.183588   -0.769318
-0.003574   -0.556025   -77.049305
0.56342  -10.027816   -84.183588   -0.769318
-0.003574   -0.899021  -108.854893

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.784632    7.266334    0.373314
 0.000601    0.209556    7.132501
0.14085    4.784632    7.266334    0.373314
 0.000601    0.052959    4.425952
0.28171    4.784632    7.266334    0.373314
 0.000601    0.105741    2.158844
0.42256    4.784632    7.266334    0.373314
 0.000601    0.266631    1.361639
0.56342    4.784632    7.266334    0.373314
 0.000601    0.427519    2.012902
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1973

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.133893   -19.225129   -0.383601
-1.59E-05   -0.216047   -46.141144
0.14085   -0.133893   -19.225129   -0.383601
-1.59E-05   -0.055061   -38.554908
0.28171   -0.133893   -19.225129   -0.383601
-1.59E-05   -0.103611   -31.115681
0.42256   -0.133893   -19.225129   -0.383601
-1.59E-05   -0.260170   -23.699367
0.56342   -0.133893   -19.225129   -0.383601
-1.59E-05   -0.416742   -16.370771

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.438794   12.189909    0.602850
 0.001284    0.339077   14.131970
0.14085    8.438794   12.189909    0.602850
 0.001284    0.086167   12.993230
0.28171    8.438794   12.189909    0.602850
 0.001284    0.169764   17.606465
0.42256    8.438794   12.189909    0.602850
 0.001284    0.427353   25.026072
0.56342    8.438794   12.189909    0.602850
 0.001284    0.684912   34.970885

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1.642120  -45.687529   -0.614076
-0.000387   -0.345707  -63.448136
0.14085   -1.642120  -45.687529   -0.614076
-0.000387   -0.086381   -50.117760
0.28171   -1.642120  -45.687529   -0.614076
-0.000387   -0.167468   -37.891667
0.42256   -1.642120  -45.687529   -0.614076
-0.000387   -0.419600   -27.982330
0.56342   -1.642120  -45.687529   -0.614076
-0.000387   -0.672374   -20.431982

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.769737   12.504226    0.665990
 0.001116    0.378618   65.144775
0.14085   11.769737   12.504226    0.665990
 0.001116    0.099202   88.655264
0.28171   11.769737   12.504226    0.665990
 0.001116    0.178003  115.738394
0.42256   11.769737   12.504226    0.665990
 0.001116    0.446811  145.654553
0.56342   11.769737   12.504226    0.665990
 0.001116    0.715629  177.985356

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1.054329  -97.348624   -0.640923
-0.000396   -0.360279   -57.042304
0.14085   -1.054329  -97.348624   -0.640923
-0.000396   -0.091958   -45.888193
0.28171   -1.054329  -97.348624   -0.640923
-0.000396   -0.181394   -35.468922
0.42256   -1.054329  -97.348624   -0.640923
-0.000396   -0.459560   -26.714868
0.56342   -1.054329  -97.348624   -0.640923
-0.000396   -0.738765   -20.198617

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.036184   93.954951    0.788684
 0.004262    0.461552  127.479082
0.14085   11.036184   93.954951    0.788684
 0.004262    0.130899  115.075350
0.28171   11.036184   93.954951    0.788684
 0.004262    0.205216  118.312636
0.42256   11.036184   93.954951    0.788684
 0.004262    0.517108  135.153793
0.56342   11.036184   93.954951    0.788684
 0.004262    0.828950  161.696321
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    1974

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -7.823675  -85.683237   -0.743580
-0.003920   -0.425650   -49.921289
0.14085   -7.823675  -85.683237   -0.743580
-0.003920   -0.111637   -39.293413
0.28171   -7.823675  -85.683237   -0.743580
-0.003920   -0.214484   -45.499056
0.42256   -7.823675  -85.683237   -0.743580
-0.003920   -0.532683   -58.450455
0.56342   -7.823675  -85.683237   -0.743580
-0.003920   -0.862283   -83.994860

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.475617   72.864339    0.790812
 4.22E-06    0.435562    2.497383
0.14085    0.475617   72.864339    0.790812
 4.22E-06    0.104915    2.889921
0.28171    0.475617   72.864339    0.790812
 4.22E-06    0.173058    3.970532
0.42256    0.475617   72.864339    0.790812
 4.22E-06    0.437319    7.851304
0.56342    0.475617   72.864339    0.790812
 4.22E-06    0.701164   12.073094

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -11.374207   -10.286545   -0.629489
```

```
-0.000770   -0.354888   -31.913740
0.14085   -11.374207   -10.286545    -0.629489
-0.000770   -0.091244   -59.480482
0.28171   -11.374207   -10.286545    -0.629489
-0.000770   -0.227682   -87.382690
0.42256   -11.374207   -10.286545    -0.629489
-0.000770   -0.559300   -117.445220
0.56342   -11.374207   -10.286545    -0.629489
-0.000770   -0.890997   -147.828510

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    3.183688   165.222897    1.104620
 0.006353   0.647247   129.258136
0.14085    3.183688   165.222897    1.104620
 0.006353   0.185414   103.168922
0.28171    3.183688   165.222897    1.104620
 0.006353   0.237666   78.864837
0.42256    3.183688   165.222897    1.104620
 0.006353   0.593260   74.268302
0.56342    3.183688   165.222897    1.104620
 0.006353   0.953524   83.679158

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -17.406190   -30.959678    -0.867169
-0.007247   -0.520866   -21.303410
0.14085   -17.406190   -30.959678    -0.867169
-0.007247   -0.155364   -54.553959
0.28171   -17.406190   -30.959678    -0.867169
-0.007247   -0.309237   -89.056724
0.42256   -17.406190   -30.959678    -0.867169
-0.007247   -0.745481   -128.800691
0.56342   -17.406190   -30.959678    -0.867169
-0.007247   -1.208313   -194.811017

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    6.594961   136.076617    1.212224
 0.004684   0.699049   133.291415
0.14085    6.594961   136.076617    1.212224
 0.004684   0.191921   134.965759
0.28171    6.594961   136.076617    1.212224
 0.004684   0.252391   138.325534
0.42256    6.594961   136.076617    1.212224
 0.004684   0.630978   156.163169
0.56342    6.594961   136.076617    1.212224
 0.004684   1.012820   184.048936
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1975

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -15.030694   -72.671786    -0.916915
-0.005425   -0.538748   -19.642000
0.14085   -15.030694   -72.671786    -0.916915
-0.005425   -0.154952   -50.571979
0.28171   -15.030694   -72.671786    -0.916915
-0.005425   -0.338773   -82.477396
0.42256   -15.030694   -72.671786    -0.916915
-0.005425   -0.827908   -118.526444
0.56342   -15.030694   -72.671786    -0.916915
-0.005425   -1.335917   -173.281633

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.093015   117.157215    1.353872
 0.004226   0.774178   113.965264
0.14085    8.093015   117.157215    1.353872
 0.004226   0.207516   114.055039
0.28171    8.093015   117.157215    1.353872
 0.004226   0.285509   118.026892
0.42256    8.093015   117.157215    1.353872
 0.004226   0.714832   135.797296
0.56342    8.093015   117.157215    1.353872
 0.004226   1.146637   165.177080

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -13.406697   -80.227858    -1.034869
-0.004552   -0.600606   -41.079986
0.14085   -13.406697   -80.227858    -1.034869
-0.004552   -0.167421   -59.431026
0.28171   -13.406697   -80.227858    -1.034869
-0.004552   -0.378602   -79.919787
0.42256   -13.406697   -80.227858    -1.034869
-0.004552   -0.930567   -105.315245
0.56342   -13.406697   -80.227858    -1.034869
-0.004552   -1.498162   -148.947823

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.615375   54.018254    0.254380
 0.004352   0.170486   131.550019
0.14085    4.615375   54.018254    0.254380
 0.004352   0.064534   126.750575
0.28171    4.615375   54.018254    0.254380
 0.004352   0.044508   122.395953
0.42256    4.615375   54.018254    0.254380
 0.004352   0.100996   130.016455
0.56342    4.615375   54.018254    0.254380
 0.004352   0.175648   147.222643

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -3.398601   -47.102819    -0.166297
-0.004465   -0.115998   -1.892707
0.14085   -3.398601   -47.102819    -0.166297
-0.004465   -0.047649   -1.015692
0.28171   -3.398601   -47.102819    -0.166297
-0.004465   -0.064123   -0.744380
0.42256   -3.398601   -47.102819    -0.166297
-0.004465   -0.152106   -2.538341
0.56342   -3.398601   -47.102819    -0.166297
-0.004465   -0.258364   -22.602166

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.030420   52.443512    0.579782
 0.004463   0.349315   139.743768
0.14085    8.030420   52.443512    0.579782
 0.004463   0.106857   146.546832
0.28171    8.030420   52.443512    0.579782
 0.004463   0.109512   157.124820
0.42256    8.030420   52.443512    0.579782
 0.004463   0.267870   179.986037
0.56342    8.030420   52.443512    0.579782
 0.004463   0.430323   212.302242
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1976

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.013574   -83.029711    -0.392432
-0.004334   -0.240928   -11.493354
0.14085   -4.013574   -83.029711    -0.392432
-0.004334   -0.077786   -7.240440
0.28171   -4.013574   -83.029711    -0.392432
-0.004334   -0.156556   -5.328508
0.42256   -4.013574   -83.029711    -0.392432
-0.004334   -0.381594   -6.116953
0.56342   -4.013574   -83.029711    -0.392432
-0.004334   -0.624552   -25.385909

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.038408   108.420598    1.045381
 0.003122   0.600766   135.736877
0.14085    8.038408   108.420598    1.045381
 0.003122   0.162869   125.378811
0.28171    8.038408   108.420598    1.045381
 0.003122   0.217132   139.188798
0.42256    8.038408   108.420598    1.045381
 0.003122   0.544301   164.329669
0.56342    8.038408   108.420598    1.045381
 0.003122   0.873602   196.365297

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -10.686163   -81.249157    -0.788676
-0.003462   -0.458116   -14.898327
0.14085   -10.686163   -81.249157    -0.788676
-0.003462   -0.128164   -41.918804
0.28171   -10.686163   -81.249157    -0.788676
-0.003462   -0.288674   -41.015593
0.42256   -10.686163   -81.249157    -0.788676
-0.003462   -0.715276   -71.798586
0.56342   -10.686163   -81.249157    -0.788676
-0.003462   -1.153483   -115.168784

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    9.621614   95.735159    1.242138
 0.002955   0.709065   118.183225
0.14085    9.621614   95.735159    1.242138
 0.002955   0.188759   107.323677
0.28171    9.621614   95.735159    1.242138
 0.002955   0.266075   116.075376
0.42256    9.621614   95.735159    1.242138
 0.002955   0.667509   136.007083
0.56342    9.621614   95.735159    1.242138
 0.002955   1.070842   163.780516

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -9.192844   -84.376872    -0.964456
-0.002888   -0.554178   -44.177304
0.14085   -9.192844   -84.376872    -0.964456
-0.002888   -0.150564   -37.471132
0.28171   -9.192844   -84.376872    -0.964456
-0.002888   -0.342965   -52.083570
0.42256   -9.192844   -84.376872    -0.964456
-0.002888   -0.854279   -71.831571
0.56342   -9.192844   -84.376872    -0.964456
-0.002888   -1.375009   -103.405639

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.103364   9.108936    0.577259
 0.000514   0.326416   9.097144
0.14085    5.103364   9.108936    0.577259
 0.000514   0.083881   5.621072
0.28171    5.103364   9.108936    0.577259
 0.000514   0.135768   2.409508
0.42256    5.103364   9.108936    0.577259
 0.000514   0.341712   1.454408
0.56342    5.103364   9.108936    0.577259
 0.000514   0.547747   2.167677
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1977

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.176719   -23.668479    -0.491093
-1.17E-05   -0.176719   -23.668479    -0.491093
-1.17E-05   -0.070116   -43.238479
0.28171   -0.176719   -23.668479    -0.491093
-1.17E-05   -0.157631   -33.816459
0.42256   -0.176719   -23.668479    -0.491093
-1.17E-05   -0.400141   -26.270415
0.56342   -0.176719   -23.668479    -0.491093
-1.17E-05   -0.642235   -19.854880

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.221156   13.744996    0.954898
 0.001042   0.536566   15.444912
0.14085    8.221156   13.744996    0.954898
 0.001042   0.136047   14.012925
0.28171    8.221156   13.744996    0.954898
 0.001042   0.214504   18.061288
0.42256    8.221156   13.744996    0.954898
 0.001042   0.539025   26.182457
0.56342    8.221156   13.744996    0.954898
 0.001042   0.863396   37.193197

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1.720963   -52.166620    -0.773381
-0.000295   -0.434636   -71.016152
0.14085   -1.720963   -52.166620    -0.773381
-0.000295   -0.110856   -54.405398
0.28171   -1.720963   -52.166620    -0.773381
-0.000295   -0.273477   -40.996873
0.42256   -1.720963   -52.166620    -0.773381
-0.000295   -0.664639   -30.861756
0.56342   -1.720963   -52.166620    -0.773381
-0.000295   -1.065266   -23.966053

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.435664   11.150269    1.003579
 0.000700   0.566530   71.962028
0.14085   11.435664   11.150269    1.003579
 0.000700   0.145481   93.594999
0.28171   11.435664   11.150269    1.003579
 0.000700   0.214431   119.007651
0.42256   11.435664   11.150269    1.003579
 0.000700   0.537707   147.772776
0.56342   11.435664   11.150269    1.003579
 0.000700   0.860504   178.443351

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.982318   -97.246157    -0.770403
-8.11E-05   -0.431923   -63.428706
0.14085   -0.982318   -97.246157    -0.770403
-8.11E-05   -0.109300   -49.557033
0.28171   -0.982318   -97.246157    -0.770403
-8.11E-05   -0.274736   -37.784677
0.42256   -0.982318   -97.246157    -0.770403
-8.11E-05   -0.696010   -28.797635
0.56342   -0.982318   -97.246157    -0.770403
-8.11E-05   -1.116961   -21.955544

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.126353   84.079426    1.193580
 0.003146   0.686747   130.751981
0.14085   11.126353   84.079426    1.193580
 0.003146   0.186182   119.390495
0.28171   11.126353   84.079426    1.193580
 0.003146   0.258701   122.772591
0.42256   11.126353   84.079426    1.193580
 0.003146   0.648535   140.562879
0.56342   11.126353   84.079426    1.193580
 0.003146   1.040128   166.395648
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1978

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -6.864319   -87.101271    -0.937247
-0.002949   -0.539698   -55.572169
0.14085   -6.864319   -87.101271    -0.937247
-0.002949   -0.147483   -42.460565
0.28171   -6.864319   -87.101271    -0.937247
-0.002949   -0.326375   -44.544055
0.42256   -6.864319   -87.101271    -0.937247
-0.002949   -0.816690   -55.696255
0.56342   -6.864319   -87.101271    -0.937247
-0.002949   -1.317226   -79.606554

COMB     DB ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.769737   170.454802    0.891459
 0.006329   0.520957   137.043899
0.14085   11.769737   170.454802    0.891459
 0.006329   0.147183   142.745662
0.28171   11.769737   170.454802    0.891459
 0.006329   0.227776   152.215495
0.42256   11.769737   170.454802    0.891459
 0.006329   0.574243   176.122153
0.56342   11.769737   170.454802    0.891459
 0.006329   0.920710   210.766822

COMB     DB ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -17.667626   -97.348624    -0.826059
-0.007365   -0.472495   -63.448136
0.14085   -17.667626   -97.348624    -0.826059
-0.007365   -0.132104   -55.986854
0.28171   -17.667626   -97.348624    -0.826059
-0.007365   -0.241766   -89.342226
0.42256   -17.667626   -97.348624    -0.826059
-0.007365   -0.602642   -131.129454
0.56342   -17.667626   -97.348624    -0.826059
-0.007365   -0.975313   -194.321390

COMB     DL ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.435664   165.222897    1.353872
 0.006353   0.774178   139.743768
0.14085   11.435664   165.222897    1.353872
 0.006353   0.207516   146.546832
0.28171   11.435664   165.222897    1.353872
 0.006353   0.285509   157.124820
0.42256   11.435664   165.222897    1.353872
 0.006353   0.714832   179.986037
0.56342   11.435664   165.222897    1.353872
 0.006353   1.146637   212.302242

COMB     DL ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -17.406190   -97.246157    -1.034869
-0.007247   -0.600606   -71.016152
0.14085   -17.406190   -97.246157    -1.034869
-0.007247   -0.167421   -59.480482
0.28171   -17.406190   -97.246157    -1.034869
-0.007247   -0.378602   -89.056724
0.42256   -17.406190   -97.246157    -1.034869
-0.007247   -0.930567   -128.800691
0.56342   -17.406190   -97.246157    -1.034869
-0.007247   -1.498162   -194.811017

COMB     CAR ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.769737   170.454802    1.353872
 0.006353   0.774178   139.743768
0.14085   11.769737   170.454802    1.353872
 0.006353   0.207516   146.546832
0.28171   11.769737   170.454802    1.353872
 0.006353   0.285509   157.124820
0.42256   11.769737   170.454802    1.353872
 0.006353   0.714832   179.986037
0.56342   11.769737   170.454802    1.353872
 0.006353   1.146637   212.302242
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1979

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -17.667626   -97.348624    -1.034869
-0.007365   -0.600606   -71.016152
0.14085   -17.667626   -97.348624    -1.034869
-0.007365   -0.167421   -59.480482
0.28171   -17.667626   -97.348624    -1.034869
-0.007365   -0.378602   -89.342226
0.42256   -17.667626   -97.348624    -1.034869
-0.007365   -0.930567   -131.129454
0.56342   -17.667626   -97.348624    -1.034869
-0.007365   -1.498162   -194.811017

COMB  DESIGN ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.769737   170.454802    1.353872
 0.006353   0.774178   139.743768
0.14085   11.769737   170.454802    1.353872
 0.006353   0.207516   146.546832
0.28171   11.769737   170.454802    1.353872
 0.006353   0.285509   157.124820
0.42256   11.769737   170.454802    1.353872
 0.006353   0.714832   179.986037
0.56342   11.769737   170.454802    1.353872
 0.006353   1.146637   212.302242

COMB  DESIGN ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -17.667626   -97.348624    -1.034869
-0.007365   -0.600606   -71.016152
0.14085   -17.667626   -97.348624    -1.034869
-0.007365   -0.167421   -59.480482
0.28171   -17.667626   -97.348624    -1.034869
-0.007365   -0.378602   -89.342226
0.42256   -17.667626   -97.348624    -1.034869
-0.007365   -0.930567   -131.129454
0.56342   -17.667626   -97.348624    -1.034869
-0.007365   -1.498162   -194.811017

 ELEM      172 ================== LENGTH
=    2.977120

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666    1.205404   63.236448    0.529620
 1.61E-05   0.592779   84.144974
0.57750    1.205404   63.236448    0.529620
 1.61E-05   0.370723   57.662897
0.71833    1.205404   63.236448    0.529620
 1.61E-05   0.148674   31.283511
0.85917    1.205404   63.236448    0.529620
 1.61E-05   0.071804   5.343292
1.00000    1.205404   63.236448    0.529620
 1.61E-05   0.287841   2.350120

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666   -8.388148   -15.313746    -0.515198
-0.001245   -0.576346   -31.506664
0.57750   -8.388148   -15.313746    -0.515198
-0.001245   -0.360379   -25.168561
0.71833   -8.388148   -15.313746    -0.515198
-0.001245   -0.144403   -19.205240
0.85917   -8.388148   -15.313746    -0.515198
-0.001245   -0.073320   -13.555004
1.00000   -8.388148   -15.313746    -0.515198
-0.001245   -0.295475   -23.305607

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666    5.214479   92.603671    0.797663
 0.006320   0.869742   170.675832
0.57750    5.214479   92.603671    0.797663
 0.006320   0.535498   133.801804
0.71833    5.214479   92.603671    0.797663
 0.006320   0.223024   110.510661
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1980

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.85917    5.214479   92.603671    0.797663
 0.006320   0.121278   105.770795
1.00000    5.214479   92.603671    0.797663
 0.006320   0.397269   116.534902

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666   -11.814315   -100.178577    -0.703937
-0.007703   -0.787447   -65.886355
0.57750   -11.814315   -100.178577    -0.703937
-0.007703   -0.492297   -36.223509
0.71833   -11.814315   -100.178577    -0.703937
-0.007703   -0.197116   -25.576845
0.85917   -11.814315   -100.178577    -0.703937
-0.007703   -0.135812   -18.091392
1.00000   -11.814315   -100.178577    -0.703937
-0.007703   -0.469482   -12.846320

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666    8.145008   86.344072    0.915989
 0.004786   1.013890   164.727098
0.57750    8.145008   86.344072    0.915989
 0.004786   0.629991   131.660918
0.71833    8.145008   86.344072    0.915989
 0.004786   0.260976   108.563503
0.85917    8.145008   86.344072    0.915989
 0.004786   0.119591   99.629118
1.00000    8.145008   86.344072    0.915989
 0.004786   0.421165   111.688298

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666   -10.646737   -123.507846    -0.749920
-0.005636   -0.837960   -108.626670
0.57750   -10.646737   -123.507846    -0.749920
-0.005636   -0.523535   -65.263330
0.71833   -10.646737   -123.507846    -0.749920
-0.005636   -0.209109   -33.068692
0.85917   -10.646737   -123.507846    -0.749920
-0.005636   -0.139897   -17.129136
1.00000   -10.646737   -123.507846    -0.749920
-0.005636   -0.523320   -13.054465

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666    9.529697   77.950782    0.952570
 0.004366   1.056429   150.201590
0.57750    9.529697   77.950782    0.952570
 0.004366   0.657305   120.141649
0.71833    9.529697   77.950782    0.952570
 0.004366   0.270710   98.359922
0.85917    9.529697   77.950782    0.952570
 0.004366   0.128963   88.403011
1.00000    9.529697   77.950782    0.952570
 0.004366   0.467936   96.048269

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666   -9.304702   -115.843370    -0.833665
-0.004682   -0.931395   -131.111685
0.57750   -9.304702   -115.843370    -0.833665
-0.004682   -0.581853   -89.832264
0.71833   -9.304702   -115.843370    -0.833665
-0.004682   -0.232305   -58.181974
0.85917   -9.304702   -115.843370    -0.833665
-0.004682   -0.144513   -40.601960
1.00000   -9.304702   -115.843370    -0.833665
-0.004682   -0.541962   -32.506338

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666    5.227713   9.128690    0.269361
 0.005510   0.284656   48.385014
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   1981

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.57750    5.227713   9.128690    0.269361
 0.005510   0.171902   46.896227
0.71833    5.227713   9.128690    0.269361
 0.005510   0.077363   57.349912
0.85917    5.227713   9.128690    0.269361
 0.005510   0.038601   85.170877
1.00000    5.227713   9.128690    0.269361
 0.005510   0.077907   124.018290

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666   -1.652584   -100.704807    -0.134990
```

```
-0.005424   -0.150254  -50.314397
0.57750   -1.652584 -100.704807     -0.134990
-0.005424   -0.093610  -18.431922
0.71833   -1.652584 -100.704807     -0.134990
-0.005424   -0.036989   -3.533841
0.85917   -1.652584 -100.704807     -0.134990
-0.005424   -0.056136   -2.700993
1.00000   -1.652584 -100.704807     -0.134990
-0.005424   -0.168391   -2.326439

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   9.486355  13.768012     0.496410
 0.005651   0.542190   55.811237
0.57750   9.486355  13.768012     0.496410
 0.005651   0.334428   53.560634
0.71833   9.486355  13.768012     0.496410
 0.005651   0.143958   62.684736
0.85917   9.486355  13.768012     0.496410
 0.005651   0.063796   88.004674
1.00000   9.486355  13.768012     0.496410
 0.005651   0.187188  126.813505

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -1.712608 -131.210743     -0.329533
-0.005061   -0.367097  -105.821516
0.57750  -1.712608 -131.210743     -0.329533
-0.005061   -0.226927   -0.522075
0.71833  -1.712608 -131.210743     -0.329533
-0.005061   -0.090768   -28.490421
0.85917  -1.712608 -131.210743     -0.329533
-0.005061   -0.086160   -15.184274
1.00000  -1.712608 -131.210743     -0.329533
-0.005061   -0.291476   -13.529726

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   8.663214  80.292861     0.793740
 0.004162   0.680103  181.091687
0.57750   8.663214  80.292861     0.793740
 0.004162   0.547626  150.400397
0.71833   8.663214  80.292861     0.793740
 0.004162   0.227427  127.963573
0.85917   8.663214  80.292861     0.793740
 0.004162   0.102972  117.745338
1.00000   8.663214  80.292861     0.793740
 0.004162   0.364405  120.218163

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -8.691314 -118.360996     -0.648383
-0.004390   -0.724150  -113.605063
0.57750  -8.691314 -118.360996     -0.648383
-0.004390   -0.452292   -71.012752
0.71833  -8.691314 -118.360996     -0.648383
-0.004390   -0.180425   -37.995373
0.85917  -8.691314 -118.360996     -0.648383
-0.004390   -0.122846   -22.469959
1.00000  -8.691314 -118.360996     -0.648383
-0.004390   -0.451890   -17.341649
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1982

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   9.614622  73.751678     0.864259
 0.003855   0.960270  167.095344
0.57750   9.614622  73.751678     0.864259
 0.003855   0.598134  138.667472
0.71833   9.614622  73.751678     0.864259
 0.003855   0.246243  117.158120
0.85917   9.614622  73.751678     0.864259
 0.003855   0.117426  105.838644
1.00000   9.614622  73.751678     0.864259
 0.003855   0.429943  105.013174

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -7.630066 -107.968901     -0.765989
-0.003673   -0.855567  -133.711947
0.57750  -7.630066 -107.968901     -0.765989
-0.003673   -0.534501   -94.505880
0.71833  -7.630066 -107.968901     -0.765989
-0.003673   -0.213294   -63.231268
0.85917  -7.630066 -107.968901     -0.765989
-0.003673   -0.130265   -46.406575
1.00000  -7.630066 -107.968901     -0.765989
-0.003673   -0.489664   -38.609444

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   3.488793  11.141738     0.318640
 0.000570   0.356619   27.714133
0.57750   3.488793  11.141738     0.318640
 0.000570   0.223020   23.060295
0.71833   3.488793  11.141738     0.318640
 0.000570   0.089440   18.436412
0.85917   3.488793  11.141738     0.318640
 0.000570   0.040741   11.880254
1.00000   3.488793  11.141738     0.318640
 0.000570   0.199254   9.436079

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -0.796165  -12.845667     -0.356345
-7.01E-06   -0.398380   -58.894847
0.57750  -0.796165  -12.845667     -0.356345
-7.01E-06   -0.248973   -53.685254
0.71833  -0.796165  -12.845667     -0.356345
-7.01E-06   -0.098548   -48.566567
0.85917  -0.796165  -12.845667     -0.356345
-7.01E-06   -0.044415   -43.492786
1.00000  -0.796165  -12.845667     -0.356345
-7.01E-06   -0.177806   -38.485528

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   7.250321  17.238713     0.532408
 0.001233   0.595422   39.480955
0.57750   7.250321  17.238713     0.532408
 0.001233   0.372409   32.459714
0.71833   7.250321  17.238713     0.532408
 0.001233   0.150478   26.312611
0.85917   7.250321  17.238713     0.532408
 0.001233   0.081488   21.054587
1.00000   7.250321  17.238713     0.532408
 0.001233   0.322161   16.408431

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -1.233863  -36.461284     -0.575094
-0.000203   -0.642397  -108.300560
0.57750  -1.233863  -36.461284     -0.575094
-0.000203   -0.401268   -93.968176
0.71833  -1.233863  -36.461284     -0.575094
-0.000203   -0.160104   -80.901960
0.85917  -1.233863  -36.461284     -0.575094
-0.000203   -0.078169   -68.441836
1.00000  -1.233863  -36.461284     -0.575094
-0.000203   -0.297610   -56.311239

Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1983

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   10.033172  17.757479     0.677104
 0.001634   0.761541   56.527529
0.57750   10.033172  17.757479     0.677104
 0.001634   0.477869   51.348943
0.71833   10.033172  17.757479     0.677104
 0.001634   0.195559   47.790364
0.85917   10.033172  17.757479     0.677104
 0.001634   0.086409   47.854243
1.00000   10.033172  17.757479     0.677104
 0.001634   0.338088   60.651053

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -1.342032  -88.491617     -0.602237
-0.000461   -0.672033  -143.426598
0.57750  -1.342032  -88.491617     -0.602237
-0.000461   -0.419523   -107.496341
0.71833  -1.342032  -88.491617     -0.602237
-0.000461   -0.167007   -73.108485
0.85917  -1.342032  -88.491617     -0.602237
-0.000461   -0.092075   -56.761055
1.00000  -1.342032  -88.491617     -0.602237
-0.000461   -0.374118   -50.679439

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   10.329369  61.658491     0.822195
 0.004480   0.911170   514.817445
0.57750   10.329369  61.658491     0.822195
 0.004480   0.566702   131.588899
0.71833   10.329369  61.658491     0.822195
 0.004480   0.234347   116.516995
0.85917   10.329369  61.658491     0.822195
 0.004480   0.114443   112.964048
1.00000   10.329369  61.658491     0.822195
 0.004480   0.410903   119.664687

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -5.955768 -111.821582     -0.731517
-0.003898   -0.817071  -139.330441
0.57750  -5.955768 -111.821582     -0.731517
-0.003898   -0.510358   -99.464969
0.71833  -5.955768 -111.821582     -0.731517
-0.003898   -0.203630   -68.956218
0.85917  -5.955768 -111.821582     -0.731517
-0.003898   -0.127053   -52.768520
1.00000  -5.955768 -111.821582     -0.731517
-0.003898   -0.468534   -45.401715

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   1.580874  60.099732     1.003983
 1.15E-05   1.114046   77.885536
0.57750   1.580874  60.099732     1.003983
 1.15E-05   0.693011   53.072655
0.71833   1.580874  60.099732     1.003983
 1.15E-05   0.272133   28.603808
0.85917   1.580874  60.099732     1.003983
 1.15E-05   0.094157   5.741770
1.00000   1.580874  60.099732     1.003983
 1.15E-05   0.382778   2.631851

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -7.254417  -18.768709     -0.686329
-0.001153   -0.768226   -41.141883
0.57750  -7.254417  -18.768709     -0.686329
-0.001153   -0.480554   -33.658502
0.71833  -7.254417  -18.768709     -0.686329
-0.001153   -0.192522   -26.591533
0.85917  -7.254417  -18.768709     -0.686329
-0.001153   -0.148539   -20.828755
1.00000  -7.254417  -18.768709     -0.686329
-0.001153   -0.569353   -33.071152
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1984

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   5.616178  87.029084     1.406183
 0.006283   1.539494   162.829837
0.57750   5.616178  87.029084     1.406183
 0.006283   0.952362   130.501203
0.71833   5.616178  87.029084     1.406183
 0.006283   0.384279   111.628221
0.85917   5.616178  87.029084     1.406183
 0.006283   0.171288   110.036078
1.00000   5.616178  87.029084     1.406183
 0.006283   0.584303   122.736290

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -10.491748  -101.248319     -1.013105
-0.007590   -1.120551   -81.308323
0.57750  -10.491748  -101.248319     -1.013105
-0.007590   -0.697756   -44.816964
0.71833  -10.491748  -101.248319     -1.013105
-0.007590   -0.275302   -32.733798
0.85917  -10.491748  -101.248319     -1.013105
-0.007590   -0.231973   -23.699883
1.00000  -10.491748  -101.248319     -1.013105
-0.007590   -0.820137   -24.278812

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   8.013774  81.675187     1.546706
 0.004867   1.707602   156.004574
0.57750   8.013774  81.675187     1.546706
 0.004867   1.061114   125.925940
0.71833   8.013774  81.675187     1.546706
 0.004867   0.427893   106.128876
0.85917   8.013774  81.675187     1.546706
 0.004867   0.165780   105.184749
1.00000   8.013774  81.675187     1.546706
 0.004867   0.590289   122.584404

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -9.467964  -120.303845     -1.032708
-0.005597   -1.145624   -112.366238
0.57750  -9.467964  -120.303845     -1.032708
-0.005597   -0.713684   -66.725332
0.71833  -9.467964  -120.303845     -1.032708
-0.005597   -0.282380   -38.552300
0.85917  -9.467964  -120.303845     -1.032708
-0.005597   -0.239186   -22.259794
1.00000  -9.467964  -120.303845     -1.032708
-0.005597   -0.886474   -23.156498

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   9.274451  75.191123     1.647604
 0.004398   1.824011   145.421188
0.57750   9.274451  75.191123     1.647604
 0.004398   1.134679   117.371353
0.71833   9.274451  75.191123     1.647604
 0.004398   0.456505   97.904806
0.85917   9.274451  75.191123     1.647604
 0.004398   0.173040   94.176150
1.00000   9.274451  75.191123     1.647604
 0.004398   0.630889   105.681715

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -8.324292  -114.324760     -1.108861
-0.004650   -1.231836   -137.861998
0.57750  -8.324292  -114.324760     -1.108861
-0.004650   -0.767780   -94.019677
0.71833  -8.324292  -114.324760     -1.108861
-0.004650   -0.304356   -64.934877
0.85917  -8.324292  -114.324760     -1.108861
-0.004650   -0.250098   -46.271231
1.00000  -8.324292  -114.324760     -1.108861
-0.004650   -0.939191   -41.782543
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1985

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   4.483154   9.718692     0.349966
 0.004591   0.377077   49.613498
0.57750   4.483154   9.718692     0.349966
 0.004591   0.232215   49.902832
0.71833   4.483154   9.718692     0.349966
 0.004591   0.100399   61.389217
0.85917   4.483154   9.718692     0.349966
 0.004591   0.060678   88.984714
1.00000   4.483154   9.718692     0.349966
 0.004591   0.158966   121.982677

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -1.732012  -88.531369     -0.255393
-0.004566   -0.273077   -49.429917
0.57750  -1.732012  -88.531369     -0.255393
-0.004566   -0.167057   -17.615880
0.71833  -1.732012  -88.531369     -0.255393
-0.004566   -0.061971   -4.032894
0.85917  -1.732012  -88.531369     -0.255393
-0.004566   -0.045170   -3.072690
1.00000  -1.732012  -88.531369     -0.255393
-0.004566   -0.211234   -2.420432

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   8.386804  15.220449     0.730561
 0.004848   0.803091   57.746908
0.57750   8.386804  15.220449     0.730561
 0.004848   0.498547   55.608939
0.71833   8.386804  15.220449     0.730561
 0.004848   0.194027   63.769732
0.85917   8.386804  15.220449     0.730561
 0.004848   0.084315   91.278433
1.00000   8.386804  15.220449     0.730561
 0.004848   0.260809   127.611383

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -1.743406  -116.731608     -0.441822
-0.004358   -0.483376   -98.292579
0.57750  -1.743406  -116.731608     -0.441822
-0.004358   -0.299392   -54.053829
0.71833  -1.743406  -116.731608     -0.441822
-0.004358   -0.116189   -26.927314
0.85917  -1.743406  -116.731608     -0.441822
-0.004358   -0.118108   -14.982124
1.00000  -1.743406  -116.731608     -0.441822
-0.004358   -0.422236   -12.834035

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   7.795236  77.673502     1.310865
 0.003331   1.455908   179.149507
0.57750   7.795236  77.673502     1.310865
 0.003331   0.907360   149.916348
0.71833   7.795236  77.673502     1.310865
 0.003331   0.367150   127.877024
0.85917   7.795236  77.673502     1.310865
 0.003331   0.138924   121.096697
1.00000   7.795236  77.673502     1.310865
 0.003331   0.504948   122.325093

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -7.950686  -106.724891     -0.886285
-0.003592   -0.993104   -110.496940
0.57750  -7.950686  -106.724891     -0.886285
-0.003592   -0.611975   -69.200437
0.71833  -7.950686  -106.724891     -0.886285
-0.003592   -0.241328   -39.567727
0.85917  -7.950686  -106.724891     -0.886285
-0.003592   -0.195115   -24.172273
1.00000  -7.950686  -106.724891     -0.886285
-0.003592   -0.742285   -17.586803
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1986

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   8.744656  73.252127     1.453090
 0.003140   1.618730   169.790999
0.57750   8.744656  73.252127     1.453090
 0.003140   1.010461   141.864725
0.71833   8.744656  73.252127     1.453090
 0.003140   0.408493   119.919755
0.85917   8.744656  73.252127     1.453090
 0.003140   0.155037   110.718350
1.00000   8.744656  73.252127     1.453090
 0.003140   0.576985   108.300349

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -7.165948  -100.259927     -1.017602
-0.003002   -1.130912   -137.471579
0.57750  -7.165948  -100.259927     -1.017602
-0.003002   -0.704748   -98.388637
0.71833  -7.165948  -100.259927     -1.017602
-0.003002   -0.278907   -69.074690
0.85917  -7.165948  -100.259927     -1.017602
-0.003002   -0.210421   -51.436652
1.00000  -7.165948  -100.259927     -1.017602
-0.003002   -0.817872   -41.529804

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   3.246751  14.056351     0.536079
 0.000534   0.605010   35.387667
0.57750   3.246751  14.056351     0.536079
 0.000534   0.380115   29.511169
0.71833   3.246751  14.056351     0.536079
 0.000534   0.155039   23.647325
0.85917   3.246751  14.056351     0.536079
 0.000534   0.062355   17.836906
1.00000   3.246751  14.056351     0.536079
 0.000534   0.249036   12.084088

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -1.118567  -15.594680     -0.445236
-4.11E-06   -0.497521   -69.039820
0.57750  -1.118567  -15.594680     -0.445236
-4.11E-06   -0.310904   -62.614952
0.71833  -1.118567  -15.594680     -0.445236
-4.11E-06   -0.124279   -56.219178
0.85917  -1.118567  -15.594680     -0.445236
-4.11E-06   -0.068724   -49.919363
1.00000  -1.118567  -15.594680     -0.445236
-4.11E-06   -0.294751   -43.699874

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   6.911109  21.309902     0.955029
 0.001095   1.071410   49.539431
0.57750   6.911109  21.309902     0.955029
 0.001095   0.670761   40.889261
0.71833   6.911109  21.309902     0.955029
 0.001095   0.270723   32.695040
0.85917   6.911109  21.309902     0.955029
 0.001095   0.099955   25.082718
1.00000   6.911109  21.309902     0.955029
 0.001095   0.395520   18.206822

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -1.567085  -39.223431     -0.705493
-0.000131   -0.787775   -120.438530
0.57750  -1.567085  -39.223431     -0.705493
-0.000131   -0.491970   -104.502997
0.71833  -1.567085  -39.223431     -0.705493
-0.000131   -0.196296   -89.404195
0.85917  -1.567085  -39.223431     -0.705493
-0.000131   -0.131720   -75.481989
1.00000  -1.567085  -39.223431     -0.705493
-0.000131   -0.530641   -62.291773
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1987

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   8.880099  21.242628     1.074799
 0.001189   1.210230   62.782229
0.57750   8.880099  21.242628     1.074799
 0.001189   0.759483   55.854388
0.71833   8.880099  21.242628     1.074799
 0.001189   0.309090   50.968526
0.85917   8.880099  21.242628     1.074799
 0.001189   0.105519   54.787863
1.00000   8.880099  21.242628     1.074799
 0.001189   0.414631   66.477554

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -1.679448  -82.162467     -0.738757
-0.000147   -0.823088   -143.661327
0.57750  -1.679448  -82.162467     -0.738757
-0.000147   -0.513319   -110.552355
0.71833  -1.679448  -82.162467     -0.738757
-0.000147   -0.203702   -79.394235
0.85917  -1.679448  -82.162467     -0.738757
-0.000147   -0.141540   -63.606956
1.00000  -1.679448  -82.162467     -0.738757
-0.000147   -0.591498   -55.531466

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   9.145062  63.306133     1.341858
 0.003442   1.497127   163.076958
0.57750   9.145062  63.306133     1.341858
 0.003442   0.935487   139.465830
0.71833   9.145062  63.306133     1.341858
 0.003442   0.381452   122.427897
0.85917   9.145062  63.306133     1.341858
 0.003442   0.150386   118.717625
1.00000   9.145062  63.306133     1.341858
 0.003442   0.553154   121.549526

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -5.961993  -101.435580     -0.973194
-0.002925   -1.080199   -143.702743
0.57750  -5.961993  -101.435580     -0.973194
-0.002925   -0.672676   -104.358220
0.71833  -5.961993  -101.435580     -0.973194
-0.002925   -0.265836   -75.674478
0.85917  -5.961993  -101.435580     -0.973194
-0.002925   -0.172273   -59.466814
1.00000  -5.961993  -101.435580     -0.973194
-0.002925   -0.753672   -49.877223

COMB     DB ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   10.329369  92.603671     0.952570
 0.006320   1.056429   181.091687
0.57750   10.329369  92.603671     0.952570
 0.006320   0.657305   150.400397
0.71833   10.329369  92.603671     0.952570
 0.006320   0.270710   127.963573
0.85917   10.329369  92.603671     0.952570
 0.006320   0.128963   117.745338
1.00000   10.329369  92.603671     0.952570
 0.006320   0.467936   126.813505

COMB     DB ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -11.814315  -131.210743     -0.833665
-0.007703   -0.931395   -143.426598
0.57750  -11.814315  -131.210743     -0.833665
-0.007703   -0.581653   -107.496341
0.71833  -11.814315  -131.210743     -0.833665
-0.007703   -0.232305   -80.901960
0.85917  -11.814315  -131.210743     -0.833665
-0.007703   -0.144513   -68.441836
1.00000  -11.814315  -131.210743     -0.833665
-0.007703   -0.541962   -56.311239
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                1988

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S
```

```
COMB       DL ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666    9.274451   87.029084    1.647604
 0.006283    1.824011   179.149507
0.57750    9.274451   87.029084    1.647604
 0.006283    1.134679   149.916348
0.71833    9.274451   87.029084    1.647604
 0.006283    0.456505   127.877024
0.85917    9.274451   87.029084    1.647604
 0.006283    0.173040   121.096697
1.00000    9.274451   87.029084    1.647604
 0.006283    0.630889   127.611383

COMB       DL ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -10.491748 -120.303845   -1.108861
-0.007590   -1.231836 -143.702743
0.57750  -10.491748 -120.303845   -1.108861
-0.007590   -0.767780 -110.552355
0.71833  -10.491748 -120.303845   -1.108861
-0.007590   -0.304356  -89.404195
0.85917  -10.491748 -120.303845   -1.108861
-0.007590   -0.250098  -75.481989
1.00000  -10.491748 -120.303845   -1.108861
-0.007590   -0.939191  -62.291773

COMB       CAR ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   10.329369   92.603671    1.647604
 0.006320    1.824011   181.091687
0.57750   10.329369   92.603671    1.647604
 0.006320    1.134679   150.400397
0.71833   10.329369   92.603671    1.647604
 0.006320    0.456505   127.963573
0.85917   10.329369   92.603671    1.647604
 0.006320    0.173040   121.096697
1.00000   10.329369   92.603671    1.647604
 0.006320    0.630889   127.611383

COMB       CAR ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -11.814315 -131.210743   -1.108861
-0.007703   -1.231836 -143.702743
0.57750  -11.814315 -131.210743   -1.108861
-0.007703   -0.767780 -110.552355
0.71833  -11.814315 -131.210743   -1.108861
-0.007703   -0.304356  -89.404195
0.85917  -11.814315 -131.210743   -1.108861
-0.007703   -0.250098  -75.481989
1.00000  -11.814315 -131.210743   -1.108861
-0.007703   -0.939191  -62.291773

COMB   DESIGN ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43666   10.329369   92.603671    1.647604
 0.006320    1.824011   181.091687
0.57750   10.329369   92.603671    1.647604
 0.006320    1.134679   150.400397
0.71833   10.329369   92.603671    1.647604
 0.006320    0.456505   127.963573
0.85917   10.329369   92.603671    1.647604
 0.006320    0.173040   121.096697
1.00000   10.329369   92.603671    1.647604
 0.006320    0.630889   127.611383

COMB   DESIGN ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43666  -11.814315 -131.210743   -1.108861
-0.007703   -1.231836 -143.702743
0.57750  -11.814315 -131.210743   -1.108861
-0.007703   -0.767780 -110.552355
0.71833  -11.814315 -131.210743   -1.108861
-0.007703   -0.304356  -89.404195
0.85917  -11.814315 -131.210743   -1.108861
-0.007703   -0.250098  -75.481989
1.00000  -11.814315 -131.210743   -1.108861
-0.007703   -0.939191  -62.291773
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1989

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM       173 ================== LENGTH =     2.977276

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.199541   62.879013    0.549223
 7.30E-06    0.310697    2.346571
0.14084    1.199541   62.879013    0.549223
 7.30E-06    0.080316    2.539280
0.28168    1.199541   62.879013    0.549223
 7.30E-06    0.146905   -7.797640
0.42252    1.199541   62.879013    0.549223
 7.30E-06    0.372665   13.954568
0.56336    1.199541   62.879013    0.549223
 7.30E-06    0.598410   20.271181

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -8.354922  -15.295959   -0.538359
-0.001203   -0.304565  -23.331044
0.14084   -8.354922  -15.295959   -0.538359
-0.001203   -0.076760  -49.094431
0.28168   -8.354922  -15.295959   -0.538359
-0.001203    0.149911  -75.337586
0.42252   -8.354922  -15.295959   -0.538359
-0.001203   -0.380203 -101.647313
0.56336   -8.354922  -15.295959   -0.538359
-0.001203   -0.610502 -127.983419

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.212144   157.814386    0.835880
 0.006120    0.498897   116.912406
0.14084    2.212144   157.814386    0.835880
 0.006120    0.121201    92.721291
0.28168    2.212144   157.814386    0.835880
 0.006120    0.199618    73.548386
0.42252    2.212144   157.814386    0.835880
 0.006120    0.506732    74.264996
0.56336    2.212144   157.814386    0.835880
 0.006120    0.813804    87.859316

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -15.702120  -38.534724   -0.732285
-0.007854   -0.414430  -12.871937
0.14084  -15.702120  -38.534724   -0.732285
-0.007854   -0.124223  -46.187024
0.28168  -15.702120  -38.534724   -0.732285
-0.007854   -0.226932  -80.378255
0.42252  -15.702120  -38.534724   -0.732285
-0.007854   -0.554075 -118.481428
0.56336  -15.702120  -38.534724   -0.732285
-0.007854   -0.904449 -177.625879

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    6.175022   130.549837    0.987269
 0.004291    0.576725   111.921539
0.14084    6.175022   130.549837    0.987269
 0.004291    0.163258   116.873523
0.28168    6.175022   130.549837    0.987269
 0.004291    0.211843   126.717093
0.42252    6.175022   130.549837    0.987269
 0.004291    0.535527   150.310269
0.56336    6.175022   130.549837    0.987269
 0.004291    0.859207   182.931026

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -13.270333  -81.992356   -0.771922
-0.005632   -0.435515  -13.074398
0.14084  -13.270333  -81.992356   -0.771922
-0.005632   -0.123273  -45.640907
0.28168  -13.270333  -81.992356   -0.771922
-0.005632   -0.268185  -78.786089
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1990

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.42252  -13.270333  -81.992356   -0.771922
-0.005632   -0.666270 -114.547606
0.56336  -13.270333  -81.992356   -0.771922
-0.005632   -1.080165 -164.606420

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    7.917730   114.631697    1.020659
 0.004018    0.592032    96.248840
0.14084    7.917730   114.631697    1.020659
 0.004018    0.164437    98.234741
0.28168    7.917730   114.631697    1.020659
 0.004018    0.235031   107.741406
0.42252    7.917730   114.631697    1.020659
 0.004018    0.593609   129.622695
0.56336    7.917730   114.631697    1.020659
 0.004018    0.952179   159.282039

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -11.478286  -81.555530   -0.855118
-0.004709   -0.482082  -32.532186
0.14084  -11.478286  -81.555530   -0.855118
-0.004709   -0.132953  -55.058971
0.28168  -11.478286  -81.555530   -0.855118
-0.004709   -0.278029  -78.265193
0.42252  -11.478286  -81.555530   -0.855118
-0.004709   -0.692826 -105.083292
0.56336  -11.478286  -81.555530   -0.855118
-0.004709   -1.120735 -144.795207

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.763340   64.232849    0.304624
 0.005118    0.194516   124.324967
0.14084    2.763340   64.232849    0.304624
 0.005118    0.067432   116.233990
0.28168    2.763340   64.232849    0.304624
 0.005118    0.035802   108.282488
0.42252    2.763340   64.232849    0.304624
 0.005118    0.090865   116.226791
0.56336    2.763340   64.232849    0.304624
 0.005118    0.145913   135.025579

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.950074  -49.376272   -0.131235
-0.005329   -0.074177   -2.317620
0.14084   -4.950074  -49.376272   -0.131235
-0.005329   -0.033348   -2.108658
0.28168   -4.950074  -49.376272   -0.131235
-0.005329   -0.081749   -2.393328
0.42252   -4.950074  -49.376272   -0.131235
-0.005329   -0.189920   -5.887411
0.56336   -4.950074  -49.376272   -0.131235
-0.005329   -0.317549   -26.954146

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    7.246648   64.999890    0.559836
 0.005034    0.337329   127.089128
0.14084    7.246648   64.999890    0.559836
 0.005034    0.103264   130.579493
0.28168    7.246648   64.999890    0.559836
 0.005034    0.091151   138.162780
0.42252    7.246648   64.999890    0.559836
 0.005034    0.228509   160.836747
0.56336    7.246648   64.999890    0.559836
 0.005034    0.365866   193.773887

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.765685  -83.817495   -0.327562
-0.005002   -0.183537  -13.523584
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1991

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.14084   -4.765685  -83.817495   -0.327562
-0.005002   -0.059344  -11.938182
0.28168   -4.765685  -83.817495   -0.327562
-0.005002   -0.151638  -11.931956
0.42252   -4.765685  -83.817495   -0.327562
-0.005002   -0.368179  -15.088530
0.56336   -4.765685  -83.817495   -0.327562
-0.005002   -0.602828  -36.878554

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    7.104100   115.958678    0.864989
 0.003617    0.504197   120.382651
0.14084    7.104100   115.958678    0.864989
 0.003617    0.141930   112.756619
0.28168    7.104100   115.958678    0.864989
 0.003617    0.182307   126.210504
0.42252    7.104100   115.958678    0.864989
 0.003617    0.460230   152.038815
0.56336    7.104100   115.958678    0.864989
 0.003617    0.738133   185.716795

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -10.809351  -85.013482   -0.662742
-0.004530   -0.373459  -17.326005
0.14084  -10.809351  -85.013482   -0.662742
-0.004530   -0.104837  -20.211744
0.28168  -10.809351  -85.013482   -0.662742
-0.004530   -0.235019  -48.201810
0.42252  -10.809351  -85.013482   -0.662742
-0.004530   -0.584840  -80.111265
0.56336  -10.809351  -85.013482   -0.662742
-0.004530   -0.947475 -124.842107

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.330917   103.640124    0.930577
 0.003582    0.538391   105.157401
0.14084    8.330917   103.640124    0.930577
 0.003582    0.148505    95.938051
0.28168    8.330917   103.640124    0.930577
 0.003582    0.215359   105.006101
0.42252    8.330917   103.640124    0.930577
 0.003582    0.543653   126.348043
0.56336    8.330917   103.640124    0.930577
 0.003582    0.871900   154.289931

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -9.399498  -80.048439   -0.782804
-0.003783   -0.441072  -38.604357
0.14084   -9.399498  -80.048439   -0.782804
-0.003783   -0.120522  -37.521961
0.28168   -9.399498  -80.048439   -0.782804
-0.003783   -0.253561  -57.310625
0.42252   -9.399498  -80.048439   -0.782804
-0.003783   -0.632993  -80.094109
0.56336   -9.399498  -80.048439   -0.782804
-0.003783   -1.023142 -113.398663

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    3.519202   11.225966    0.332877
 0.000893    0.187731    9.445231
0.14084    3.519202   11.225966    0.332877
 0.000893    0.048144    1.343616
0.28168    3.519202   11.225966    0.332877
 0.000893    0.100336    2.363006
0.42252    3.519202   11.225966    0.332877
 0.000893    0.253389    1.536054
0.56336    3.519202   11.225966    0.332877
 0.000893    0.406425    2.328124
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1992

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.817631  -12.839373   -0.364963
-1.21E-05   -0.205719  -38.497528
0.14084   -0.817631  -12.839373   -0.364963
-1.21E-05   -0.052564  -33.611035
0.28168   -0.817631  -12.839373   -0.364963
-1.21E-05   -0.091446  -28.954349
0.42252   -0.817631  -12.839373   -0.364963
-1.21E-05   -0.231016  -24.416331
0.56336   -0.817631  -12.839373   -0.364963
-1.21E-05   -0.370598  -19.909699

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    7.217813   19.365875    0.562847
 0.001702    0.318210   16.433350
0.14084    7.217813   19.365875    0.562847
 0.001702    0.082229   12.226846
0.28168    7.217813   19.365875    0.562847
 0.001702    0.151327   14.254551
0.42252    7.217813   19.365875    0.562847
 0.001702    0.406672   20.655129
0.56336    7.217813   19.365875    0.562847
 0.001702    0.651984   28.958565

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1.379374  -34.888325   -0.585012
-0.000303   -0.329233  -56.333143
0.14084   -1.379374  -34.888325   -0.585012
-0.000303   -0.084291  -47.038056
0.28168   -1.379374  -34.888325   -0.585012
-0.000303   -0.154682  -39.179603
0.42252   -1.379374  -34.888325   -0.585012
-0.000303   -0.389928  -33.639579
0.56336   -1.379374  -34.888325   -0.585012
-0.000303   -0.625932  -30.493605

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   10.015529   21.103399    0.744895
 0.001457    0.422585   60.656041
0.14084   10.015529   21.103399    0.744895
 0.001457    0.110280   80.408560
0.28168   10.015529   21.103399    0.744895
 0.001457    0.168171   104.750878
0.42252   10.015529   21.103399    0.744895
 0.001457    0.422766   133.015319
0.56336   10.015529   21.103399    0.744895
 0.001457    0.677353   163.394268

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1.551016  -86.103906   -0.607137
-0.000361   -0.040974  -50.689322
0.14084   -1.551016  -86.103906   -0.607137
-0.000361   -0.087108  -44.677191
0.28168   -1.551016  -86.103906   -0.607137
-0.000361   -0.203494  -38.972381
0.42252   -1.551016  -86.103906   -0.607137
-0.000361   -0.321646  -35.174899
0.56336   -1.551016  -86.103906   -0.607137
-0.000361   -0.826986  -33.624757

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    8.797733   97.172709    0.888374
 0.004286    0.516616   119.849325
0.14084    8.797733   97.172709    0.888374
 0.004286    0.144531   106.540751
0.28168    8.797733   97.172709    0.888374
 0.004286    0.205289   108.499586
0.42252    8.797733   97.172709    0.888374
 0.004286    0.517886   125.926054
0.56336    8.797733   97.172709    0.888374
 0.004286    0.830470   152.687160
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1993

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -8.085177  -78.725963   -0.745454
-0.004051   -0.419849  -45.401446
0.14084   -8.085177  -78.725963   -0.745454
-0.004051   -0.116365  -38.226485
0.28168   -8.085177  -78.725963   -0.745454
-0.004051   -0.242045  -47.693882
0.42252   -8.085177  -78.725963   -0.745454
-0.004051   -0.601801  -63.856924
0.56336   -8.085177  -78.725963   -0.745454
-0.004051   -0.974246  -92.461920

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.571932   59.879429    0.941603
 4.31E-06    0.521085    2.626882
0.14084    1.571932   59.879429    0.941603
 4.31E-06    0.126394    2.708192
0.28168    1.571932   59.879429    0.941603
 4.31E-06    0.196755    8.161833
0.42252    1.571932   59.879429    0.941603
 4.31E-06    0.506395   15.865596
0.56336    1.571932   59.879429    0.941603
 4.31E-06    0.813619   23.647386

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -7.227012  -18.796422   -0.732915
-0.001138   -0.415760  -33.085346
0.14084   -7.227012  -18.796422   -0.732915
-0.001138   -0.108083  -52.412818
0.28168   -7.227012  -18.796422   -0.732915
-0.001138   -0.268214   -75.14973
0.42252   -7.227012  -18.796422   -0.732915
-0.001138   -0.662887  -100.149275
0.56336   -7.227012  -18.796422   -0.732915
-0.001138   -1.057846  -125.227635

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.381461   149.871254    1.385546
 0.006158    0.804568   122.782790
0.14084    2.381461   149.871254    1.385546
 0.006158    0.224799    97.411028
0.28168    2.381461   149.871254    1.385546
 0.006158    0.277431    78.142762
0.42252    2.381461   149.871254    1.385546
 0.006158    0.701837    79.308775
0.56336    2.381461   149.871254    1.385546
 0.006158    1.126703    93.548798

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -14.421351  -41.379442   -1.016445
-0.007799   -0.593827  -24.287847
0.14084  -14.421351  -41.379442   -1.016445
-0.007799   -0.176482  -48.440357
0.28168  -14.421351  -41.379442   -1.016445
-0.007799   -0.384560  -77.237303
0.42252  -14.421351  -41.379442   -1.016445
-0.007799   -0.942669 -112.610574
0.56336  -14.421351  -41.379442   -1.016445
-0.007799   -1.522266 -172.715670

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.780556   126.158314    1.549581
 0.004513    0.887880   122.597922
0.14084    5.780556   126.158314    1.549581
 0.004513    0.239080   122.872313
0.28168    5.780556   126.158314    1.549581
 0.004513    0.284955   128.687399
0.42252    5.780556   126.158314    1.549581
 0.004513    0.721021   149.689037
0.56336    5.780556   126.158314    1.549581
 0.004513    1.157498   180.025779
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   1994

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -12.256483  -78.089736   -1.042573
-0.005776   -0.601495  -23.163576
0.14084  -12.256483  -78.089736   -1.042573
-0.005776   -0.107795  -47.284274
0.28168  -12.256483  -78.089736   -1.042573
-0.005776   -0.430107  -75.485206
0.42252  -12.256483  -78.089736   -1.042573
-0.005776   -1.063440 -108.719367
0.56336  -12.256483  -78.089736   -1.042573
-0.005776   -1.712105 -159.537733

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    7.442768   112.112546    1.647503
 0.004242    0.938375   105.703003
0.14084    7.442768   112.112546    1.647503
 0.004242    0.248585   103.346549
0.28168    7.442768   112.112546    1.647503
 0.004242    0.307004   108.901195
0.42252    7.442768   112.112546    1.647503
 0.004242    0.775896   128.594586
0.56336    7.442768   112.112546    1.647503
 0.004242    1.245151   156.593936

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -10.646325  -79.383818   -1.120525
-0.004824   -0.642783  -41.799830
0.14084  -10.646325  -79.383818   -1.120525
-0.004824   -0.178475  -56.937310
0.28168  -10.646325  -79.383818   -1.120525
-0.004824   -0.458176  -77.288163
0.42252  -10.646325  -79.383818   -1.120525
-0.004824   -1.138470  -103.145649
0.56336  -10.646325  -79.383818   -1.120525
-0.004824   -1.825486  -144.129205

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.273177   54.069175    0.403581
 0.004314    0.252491   122.004413
0.14084    2.273177   54.069175    0.403581
 0.004314    0.083990   117.172507
0.28168    2.273177   54.069175    0.403581
 0.004314    0.057094   112.748418
0.42252    2.273177   54.069175    0.403581
 0.004314    0.141410   121.003131
0.56336    2.273177   54.069175    0.403581
 0.004314    0.226270   138.383750

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.523613  -46.918996   -0.203887
-0.004519   -0.126312   -2.408401
0.14084   -4.523613  -46.918996   -0.203887
-0.004519   -0.047670   -1.858423
0.28168   -4.523613  -46.918996   -0.203887
-0.004519   -0.105335   -1.901170
0.42252   -4.523613  -46.918996   -0.203887
-0.004519   -0.258703   -5.085929
0.56336   -4.523613  -46.918996   -0.203887
-0.004519   -0.426850   -25.641634

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    6.318141   57.489745    0.779974
 0.004350    0.459762   127.627735
0.14084    6.318141   57.489745    0.779974
 0.004350    0.134017   131.905077
```

0.28168	6.318141	57.489745	0.779974
0.004350	0.112907	140.006477	
0.42252	6.318141	57.489745	0.779974
0.004350	0.281529	160.925159	
0.56336	6.318141	57.489745	0.779974
0.004350	0.450689	190.764252	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1995

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.412309	-77.116798	-0.405192
-0.004351	-0.238288	-12.827159	
0.14084	-4.412309	-77.116798	-0.405192
-0.004351	-0.075207	-11.281421	
0.28168	-4.412309	-77.116798	-0.405192
-0.004351	-0.211702	-11.743719	
0.42252	-4.412309	-77.116798	-0.405192
-0.004351	-0.523194	-15.796628	
0.56336	-4.412309	-77.116798	-0.405192
-0.004351	-0.848977	-36.899604	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.472443	104.553427	1.345825
0.002887	0.768725	122.298604	
0.14084	6.472443	104.553427	1.345825
0.002887	0.204891	113.390056	
0.28168	6.472443	104.553427	1.345825
0.002887	0.240288	127.673000	
0.42252	6.472443	104.553427	1.345825
0.002887	0.607081	153.346370	
0.56336	6.472443	104.553427	1.345825
0.002887	0.974232	185.212535	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.644098	-81.193742	-0.875976
-0.003743	-0.500455	-17.566019	
0.14084	-9.644098	-81.193742	-0.875976
-0.003743	-0.137589	-18.042229	
0.28168	-9.644098	-81.193742	-0.875976
-0.003743	-0.371037	-43.238859	
0.42252	-9.644098	-81.193742	-0.875976
-0.003743	-0.925202	-73.158672	
0.56336	-9.644098	-81.193742	-0.875976
-0.003743	-1.488904	-114.507609	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.660214	95.839576	1.504272
0.002941	0.856543	108.289625	
0.14084	7.660214	95.839576	1.504272
0.002941	0.225807	97.208089	
0.28168	7.660214	95.839576	1.504272
0.002941	0.278703	106.275334	
0.42252	7.660214	95.839576	1.504272
0.002941	0.703691	127.368481	
0.56336	7.660214	95.839576	1.504272
0.002941	1.129041	153.737703	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.599441	-78.843568	-1.014786
-0.003129	-0.577448	-41.525540	
0.14084	-8.599441	-78.843568	-1.014786
-0.003129	-0.155773	-37.460473	
0.28168	-8.599441	-78.843568	-1.014786
-0.003129	-0.414127	-54.605199	
0.42252	-8.599441	-78.843568	-1.014786
-0.003129	-1.036946	-77.606820	
0.56336	-8.599441	-78.843568	-1.014786
-0.003129	-1.666825	-110.142683	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.284303	14.109360	0.595799
0.000851	0.338255	12.097766	
0.14084	3.284303	14.109360	0.595799
0.000851	0.087931	6.592189	
0.28168	3.284303	14.109360	0.595799
0.000851	0.125173	2.039397	
0.42252	3.284303	14.109360	0.595799
0.000851	0.315896	1.717177	
0.56336	3.284303	14.109360	0.595799
0.000851	0.506619	2.579307	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1996

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.146910	-15.608577	-0.454924
-9.42E-06	-0.256341	-43.719404	
0.14084	-1.146910	-15.608577	-0.454924
-9.42E-06	-0.065724	-37.567515	
0.28168	-1.146910	-15.608577	-0.454924
-9.42E-06	-0.161167	-31.940191	
0.42252	-1.146910	-15.608577	-0.454924
-9.42E-06	-0.644133	-30.077542	
0.56336	-1.146910	-15.608577	-0.454924
-9.42E-06	-0.661299	-28.701535	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.904683	22.627086	0.998905
0.001519	0.562507	18.228649	
0.14084	6.904683	22.627086	0.998905
0.001519	0.143330	12.762017	
0.28168	6.904683	22.627086	0.998905
0.001519	0.197821	13.521861	
0.42252	6.904683	22.627086	0.998905
0.001519	0.498277	20.687008	
0.56336	6.904683	22.627086	0.998905
0.001519	0.798841	29.486334	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.680642	-38.218154	-0.716790
-0.000230	-0.404019	-62.322270	
0.14084	-1.680642	-38.218154	-0.716790
-0.000230	-0.103968	-51.359753	
0.28168	-1.680642	-38.218154	-0.716790
-0.000230	-0.275363	-43.977446	
0.42252	-1.680642	-38.218154	-0.716790
-0.000230	-0.694101	-41.820701	
0.56336	-1.680642	-38.218154	-0.716790
-0.000230	-1.112689	-41.332520	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.013825	21.245345	1.162610
0.001098	0.656260	66.468298	
0.14084	9.013825	21.245345	1.162610
0.001098	0.168530	83.653556	
0.28168	9.013825	21.245345	1.162610
0.001098	0.203460	105.191255	
0.42252	9.013825	21.245345	1.162610
0.001098	0.511860	132.028790	
0.56336	9.013825	21.245345	1.162610
0.001098	0.820621	160.010850	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.718848	-82.766819	-0.736103
-4.64E-05	-0.412871	-55.544985	
0.14084	-1.718848	-82.766819	-0.736103
-4.64E-05	-0.104607	-47.914596	
0.28168	-1.718848	-82.766819	-0.736103
-4.64E-05	-0.317560	-42.433523	
0.42252	-1.718848	-82.766819	-0.736103
-4.64E-05	-0.805086	-41.408298	
0.56336	-1.718848	-82.766819	-0.736103
-4.64E-05	-1.291969	-41.320930	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.970671	87.881630	1.428706
0.003345	0.818430	121.547730	
0.14084	7.970671	87.881630	1.428706
0.003345	0.219676	108.886203	
0.28168	7.970671	87.881630	1.428706
0.003345	0.263925	111.483832	
0.42252	7.970671	87.881630	1.428706
0.003345	0.664845	129.784223	
0.56336	7.970671	87.881630	1.428706
0.003345	1.066435	155.223589	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1997

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.535471	-78.206404	-0.958011
-0.003102	-0.545614	-49.877720	
0.14084	-7.535471	-78.206404	-0.958011
-0.003102	-0.148038	-40.973678	
0.28168	-7.535471	-78.206404	-0.958011
-0.003102	-0.389978	-47.869658	
0.42252	-7.535471	-78.206404	-0.958011
-0.003102	-0.979897	-64.741539	
0.56336	-7.535471	-78.206404	-0.958011
-0.003102	-1.578070	-92.595782	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.015529	157.814386	1.020659
0.006120	0.592032	127.089128	
0.14084	10.015529	157.814386	1.020659
0.006120	0.164437	130.579493	
0.28168	10.015529	157.814386	1.020659
0.006120	0.235031	138.162780	
0.42252	10.015529	157.814386	1.020659
0.006120	0.533609	160.836747	
0.56336	10.015529	157.814386	1.020659
0.006120	0.952179	193.773887	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.702120	-86.103906	-0.855118
-0.007854	-0.482082	-56.333143	
0.14084	-15.702120	-86.103906	-0.855118
-0.007854	-0.132953	-55.058971	
0.28168	-15.702120	-86.103906	-0.855118
-0.007854	-0.278029	-80.378255	
0.42252	-15.702120	-86.103906	-0.855118
-0.007854	-0.692826	-118.481428	
0.56336	-15.702120	-86.103906	-0.855118
-0.007854	-1.120735	-177.625879	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.013825	149.871254	1.647503
0.006158	0.938375	127.627735	
0.14084	9.013825	149.871254	1.647503
0.006158	0.248585	131.905077	
0.28168	9.013825	149.871254	1.647503
0.006158	0.307004	140.006477	
0.42252	9.013825	149.871254	1.647503
0.006158	0.775896	160.925159	
0.56336	9.013825	149.871254	1.647503
0.006158	1.245151	190.764252	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.421351	-82.766819	-1.120525
-0.007799	-0.642783	-62.322270	
0.14084	-14.421351	-82.766819	-1.120525
-0.007799	-0.178475	-56.937310	
0.28168	-14.421351	-82.766819	-1.120525
-0.007799	-0.458176	-77.288163	
0.42252	-14.421351	-82.766819	-1.120525
-0.007799	-1.135470	-112.610574	
0.56336	-14.421351	-82.766819	-1.120525
-0.007799	-1.825486	-172.715670	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.015529	157.814386	1.647503
0.006158	0.938375	127.627735	
0.14084	10.015529	157.814386	1.647503
0.006158	0.248585	131.905077	
0.28168	10.015529	157.814386	1.647503
0.006158	0.307004	140.006477	
0.42252	10.015529	157.814386	1.647503
0.006158	0.775896	160.925159	
0.56336	10.015529	157.814386	1.647503
0.006158	1.245151	193.773887	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1998

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.702120	-86.103906	-1.120525
-0.007854	-0.642783	-62.322270	
0.14084	-15.702120	-86.103906	-1.120525
-0.007854	-0.178475	-56.937310	
0.28168	-15.702120	-86.103906	-1.120525
-0.007854	-0.458176	-80.378255	
0.42252	-15.702120	-86.103906	-1.120525
-0.007854	-1.135470	-118.481428	
0.56336	-15.702120	-86.103906	-1.120525
-0.007854	-1.825486	-177.625879	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.015529	157.814386	1.647503
0.006158	0.938375	127.627735	
0.14084	10.015529	157.814386	1.647503
0.006158	0.248585	131.905077	
0.28168	10.015529	157.814386	1.647503
0.006158	0.307004	140.006477	
0.42252	10.015529	157.814386	1.647503
0.006158	0.775896	160.925159	
0.56336	10.015529	157.814386	1.647503
0.006158	1.245151	193.773887	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.702120	-86.103906	-1.120525
-0.007854	-0.642783	-62.322270	
0.14084	-15.702120	-86.103906	-1.120525
-0.007854	-0.178475	-56.937310	
0.28168	-15.702120	-86.103906	-1.120525
-0.007854	-0.458176	-80.378255	
0.42252	-15.702120	-86.103906	-1.120525
-0.007854	-1.135470	-118.481428	
0.56336	-15.702120	-86.103906	-1.120525
-0.007854	-1.825486	-177.625879	

ELEM 174 ========== LENGTH = 2.976802

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	6.531378	45.746188	0.554689
1.69E-05	0.620709	56.878998	
0.57753	6.531378	45.746188	0.554689
1.69E-05	0.188193	37.707281	
0.71836	6.531378	45.746188	0.554689
1.69E-05	0.155665	18.832129	
0.85918	6.531378	45.746188	0.554689
1.69E-05	0.074385	2.393259	
1.00000	6.531378	45.746188	0.554689
1.69E-05	0.303625	2.219110	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-3.427920	-28.265427	-0.546978
-0.001438	-0.613593	-54.600684	
0.57753	-3.427920	-28.265427	-0.546978
-0.001438	-0.384303	-42.820986	
0.71836	-3.427920	-28.265427	-0.546978
-0.001438	-0.155038	-31.198701	
0.85918	-3.427920	-28.265427	-0.546978
-0.001438	-0.082451	-20.162223	
1.00000	-3.427920	-28.265427	-0.546978
-0.001438	-0.309394	-21.305095	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	7.295668	73.678857	0.847586
0.006321	0.926924	132.538844	
0.57753	7.295668	73.678857	0.847586
0.006321	0.579633	103.474516	
0.71836	7.295668	73.678857	0.847586
0.006321	0.236441	86.417461	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
1999

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85918	7.295668	73.678857	0.847586
0.006321	0.141265	89.343494	
1.00000	7.295668	73.678857	0.847586
0.006321	0.465064	106.784378	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-16.424480	-113.500761	-0.795865
-0.007861	-0.890147	-96.896831	
0.57753	-16.424480	-113.500761	-0.795865
-0.007861	-0.556572	-57.167764	
0.71836	-16.424480	-113.500761	-0.795865
-0.007861	-0.223125	-38.678680	
0.85918	-16.424480	-113.500761	-0.795865
-0.007861	-0.146088	-25.094065	
1.00000	-16.424480	-113.500761	-0.795865
-0.007861	-0.494309	-12.829248	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.278568	77.641132	1.019473
0.004864	1.130270	133.580172	
0.57753	9.278568	77.641132	1.019473
0.004864	0.708426	106.369959	
0.71836	9.278568	77.641132	1.019473
0.004864	0.284896	87.693264	
0.85918	9.278568	77.641132	1.019473
0.004864	0.136298	83.480513	
1.00000	9.278568	77.641132	1.019473
0.004864	0.471874	96.052153	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-13.634436	-126.709391	-0.815979
-0.005672	-0.910330	-131.191920	
0.57753	-13.634436	-126.709391	-0.815979
-0.005672	-0.568312	-83.606169	
0.71836	-13.634436	-126.709391	-0.815979
-0.005672	-0.226282	-50.543338	
0.85918	-13.634436	-126.709391	-0.815979
-0.005672	-0.158786	-21.814912	
1.00000	-13.634436	-126.709391	-0.815979
-0.005672	-0.579186	-14.324855	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	13.515181	75.750771	1.047259
0.004509	1.165866	132.545719	
0.57753	13.515181	75.750771	1.047259
0.004509	0.731448	105.227824	
0.71836	13.515181	75.750771	1.047259
0.004509	0.299375	85.027089	
0.85918	13.515181	75.750771	1.047259
0.004509	0.140898	77.010058	
1.00000	13.515181	75.750771	1.047259
0.004509	0.502616	83.255443	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-12.460254	-112.052710	-0.875653
-0.004711	-0.977273	-135.517312	
0.57753	-12.460254	-112.052710	-0.875653
-0.004711	-0.610236	-93.622796	
0.71836	-12.460254	-112.052710	-0.875653
-0.004711	-0.243176	-64.037606	
0.85918	-12.460254	-112.052710	-0.875653
-0.004711	-0.156974	-38.724961	
1.00000	-12.460254	-112.052710	-0.875653
-0.004711	-0.590204	-30.761589	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.981834	12.807499	0.314958
0.005532	0.336804	42.917478	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2000

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57753	0.981834	12.807499	0.314958
0.005532	0.211475	40.597261	
0.71836	0.981834	12.807499	0.314958
0.005532	0.089682	48.688040	
0.85918	0.981834	12.807499	0.314958
0.005532	0.060824	74.555086	
1.00000	0.981834	12.807499	0.314958
0.005532	0.146700	109.926141	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-11.449043	-96.877368	-0.224731
-0.005326	-0.247511	-56.897370	
0.57753	-11.449043	-96.877368	-0.224731
-0.005326	-0.153333	-23.022166	
0.71836	-11.449043	-96.877368	-0.224731
-0.005326	-0.059241	-6.774861	
0.85918	-11.449043	-96.877368	-0.224731
-0.005326	-0.060197	-2.238943	
1.00000	-11.449043	-96.877368	-0.224731
-0.005326	-0.191320	-1.969046	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	8.449969	26.635404	0.600446
0.005774	0.660564	58.281889	
0.57753	8.449969	26.635404	0.600446
0.005774	0.415187	53.033094	
0.71836	8.449969	26.635404	0.600446
0.005774	0.173067	57.475192	
0.85918	8.449969	26.635404	0.600446
0.005774	0.078724	78.588906	
1.00000	8.449969	26.635404	0.600446
0.005774	0.222912	109.023346	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-9.486874	-116.788594	-0.361863
-0.004892	-0.439823	-99.920575	
0.57753	-9.486874	-116.788594	-0.361863
-0.004892	-0.248152	-57.579569	
0.71836	-9.486874	-116.788594	-0.361863
-0.004892	-0.096417	-32.018072	
0.85918	-9.486874	-116.788594	-0.361863
-0.004892	-0.095602	-12.046425	
1.00000	-9.486874	-116.788594	-0.361863
-0.004892	-0.346289	-14.566881	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.682010	81.003223	0.906960
0.004275	1.008237	161.978022	
0.57753	9.682010	81.003223	0.906960
0.004275	0.632536	133.243742	
0.71836	9.682010	81.003223	0.906960
0.004275	0.259153	111.591001	
0.85918	9.682010	81.003223	0.906960
0.004275	0.118037	102.164486	
1.00000	9.682010	81.003223	0.906960
0.004275	0.408969	101.378419	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-15.512881	-112.825726	-0.706465
-0.004347	-0.786930	-120.542462	
0.57753	-15.512881	-112.825726	-0.706465
-0.004347	-0.490804	-78.151354	
0.71836	-15.512881	-112.825726	-0.706465
-0.004347	-0.194631	-47.695229	
0.85918	-15.512881	-112.825726	-0.706465
-0.004347	-0.137778	-23.183502	
1.00000	-15.512881	-112.825726	-0.706465
-0.004347	-0.515530	-18.959188	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2001

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	10.664061	78.079942	0.933277
0.004023	1.042636	158.012621	
0.57753	10.664061	78.079942	0.933277
0.004023	0.655172	129.680470	
0.71836	10.664061	78.079942	0.933277
0.004023	0.269664	107.258146	
0.85918	10.664061	78.079942	0.933277
0.004023	0.127236	95.038386	
1.00000	10.664061	78.079942	0.933277
0.004023	0.456497	89.906663	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-14.445874	-98.320221	-0.795886
-0.003637	-0.887515	-124.455278	
0.57753	-14.445874	-98.320221	-0.795886
-0.003637	-0.553896	-87.359157	
0.71836	-14.445874	-98.320221	-0.795886
-0.003637	-0.220234	-60.606675	
0.85918	-14.445874	-98.320221	-0.795886
-0.003637	-0.138889	-38.031994	
1.00000	-14.445874	-98.320221	-0.795886
-0.003637	-0.524758	-33.378939	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	2.054639	15.923455	0.262965
0.000679	0.295629	37.043454	
0.57753	2.054639	15.923455	0.262965
0.000679	0.185404	30.388611	
0.71836	2.054639	15.923455	0.262965
0.000679	0.077691	23.785205	
0.85918	2.054639	15.923455	0.262965
0.000679	0.045746	17.246470	
1.00000	2.054639	15.923455	0.262965
0.000679	0.184220	10.950308	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-3.055469	-5.994484	-0.330167
-7.01E-06	-0.369427	-35.543093	
0.57753	-3.055469	-5.994484	-0.330167
-7.01E-06	-0.231021	-33.155338	
0.71836	-3.055469	-5.994484	-0.330167
-7.01E-06	-0.092599	-30.819144	
0.85918	-3.055469	-5.994484	-0.330167
-7.01E-06	-0.035004	-28.528085	
1.00000	-3.055469	-5.994484	-0.330167
-7.01E-06	-0.145312	-26.279029	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	11.114229	29.289339	0.506652
0.001432	0.571910	59.409541	
0.57753	11.114229	29.289339	0.506652
0.001432	0.361292	47.342169	

0.71836	11.114229	29.289339	0.506652
0.001432	0.150880	35.884422	
0.85918	11.114229	29.289339	0.506652
0.001432	0.075615	26.010815	
1.00000	11.114229	29.289339	0.506652
0.001432	0.299641	17.113761	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-4.179779	-20.675973	-0.534862
-0.000202	-0.597878	-70.542641	
0.57753	-4.179779	-20.675973	-0.534862
-0.000202	-0.373665	-62.948727	
0.71836	-4.179779	-20.675973	-0.534862
-0.000202	-0.149412	-56.480877	
0.85918	-4.179779	-20.675973	-0.534862
-0.000202	-0.067885	-50.668177	
1.00000	-4.179779	-20.675973	-0.534862
-0.000202	-0.280222	-45.507510	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2002
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.168594	34.697115	0.706154
0.001851	0.799572	71.711676	
0.57753	9.168594	34.697115	0.706154
0.001851	0.504957	61.776345	
0.71836	9.168594	34.697115	0.706154
0.001851	0.210666	53.022967	
0.85918	9.168594	34.697115	0.706154
0.001851	0.086927	47.064812	
1.00000	9.168594	34.697115	0.706154
0.001851	0.332705	50.020702	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-6.378929	-68.060069	-0.587095
-0.000322	-0.652773	-111.374720	
0.57753	-6.378929	-68.060069	-0.587095
-0.000322	-0.406689	-83.975645	
0.71836	-6.378929	-68.060069	-0.587095
-0.000322	-0.160504	-58.455496	
0.85918	-6.378929	-68.060069	-0.587095
-0.000322	-0.092261	-38.707079	
1.00000	-6.378929	-68.060069	-0.587095
-0.000322	-0.387936	-39.340788	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.164148	70.377148	0.866250
0.004666	0.963906	153.317197	
0.57753	9.164148	70.377148	0.866250
0.004666	0.605960	128.272164	
0.71836	9.164148	70.377148	0.866250
0.004666	0.250646	110.056970	
0.85918	9.164148	70.377148	0.866250
0.004666	0.123991	103.612292	
1.00000	9.164148	70.377148	0.866250
0.004666	0.433955	104.306319	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-15.287303	-98.382054	-0.751696
-0.003818	-0.837670	-120.476686	
0.57753	-15.287303	-98.382054	-0.751696
-0.003818	-0.522576	-84.059136	
0.71836	-15.287303	-98.382054	-0.751696
-0.003818	-0.207416	-59.509121	
0.85918	-15.287303	-98.382054	-0.751696
-0.003818	-0.129120	-39.299442	
1.00000	-15.287303	-98.382054	-0.751696
-0.003818	-0.491516	-36.272686	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	11.718995	40.231121	1.134952
1.23E-05	1.257970	49.692015	
0.57753	11.718995	40.231121	1.134952
1.23E-05	0.782402	33.106735	
0.71836	11.718995	40.231121	1.134952
1.23E-05	0.306778	16.828503	
0.85918	11.718995	40.231121	1.134952
1.23E-05	0.098223	2.984726	
1.00000	11.718995	40.231121	1.134952
1.23E-05	0.413484	2.479660	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-3.494865	-36.565085	-0.751176
-0.001439	-0.845938	-76.346431	
0.57753	-3.494865	-36.565085	-0.751176
-0.001439	-0.531130	-61.890767	
0.71836	-3.494865	-36.565085	-0.751176
-0.001439	-0.215468	-46.511639	
0.85918	-3.494865	-36.565085	-0.751176
-0.001439	-0.170917	-33.509502	
1.00000	-3.494865	-36.565085	-0.751176
-0.001439	-0.644154	-32.395141	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2003
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	12.329063	65.490699	1.601253
0.006305	1.759281	121.890686	
0.57753	12.329063	65.490699	1.601253
0.006305	1.096691	96.981758	
0.71836	12.329063	65.490699	1.601253
0.006305	0.438350	85.114466	
0.85918	12.329063	65.490699	1.601253
0.006305	0.197983	91.902728	
1.00000	12.329063	65.490699	1.601253
0.006305	0.689238	110.809173	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-16.882884	-119.425338	-1.185398
-0.007804	-1.316919	-123.363228	
0.57753	-16.882884	-119.425338	-1.185398
-0.007804	-0.820494	-75.552874	
0.71836	-16.882884	-119.425338	-1.185398
-0.007804	-0.325569	-55.431269	
0.85918	-16.882884	-119.425338	-1.185398
-0.007804	-0.258930	-35.789700	
1.00000	-16.882884	-119.425338	-1.185398
-0.007804	-0.926332	-25.581482	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	13.625651	72.239314	1.787625
0.004968	1.978841	132.860649	
0.57753	13.625651	72.239314	1.787625
0.004968	1.235602	106.331440	
0.71836	13.625651	72.239314	1.787625
0.004968	0.496018	89.462110	
0.85918	13.625651	72.239314	1.787625
0.004968	0.193666	87.339151	
1.00000	13.625651	72.239314	1.787625
0.004968	0.699772	103.948106	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-14.872308	-126.754368	-1.217043
-0.005825	-1.354026	-144.389206	
0.57753	-14.872308	-126.754368	-1.217043
-0.005825	-0.843417	-93.291284	
0.71836	-14.872308	-126.754368	-1.217043
-0.005825	-0.334675	-60.545018	
0.85918	-14.872308	-126.754368	-1.217043
-0.005825	-0.271384	-31.970107	
1.00000	-14.872308	-126.754368	-1.217043
-0.005825	-1.016969	-25.119709	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	17.297254	73.899872	1.852649
0.004591	2.055030	136.413174	
0.57753	17.297254	73.899872	1.852649
0.004591	1.283280	108.650749	
0.71836	17.297254	73.899872	1.852649
0.004591	0.514833	88.977175	
0.85918	17.297254	73.899872	1.852649
0.004591	0.193447	81.771592	
1.00000	17.297254	73.899872	1.852649
0.004591	0.711375	90.379464	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-13.946726	-111.824083	-1.244031
-0.004840	-1.384895	-146.892722	
0.57753	-13.946726	-111.824083	-1.244031
-0.004840	-0.863352	-101.829376	
0.71836	-13.946726	-111.824083	-1.244031
-0.004840	-0.343349	-72.228729	
0.85918	-13.946726	-111.824083	-1.244031
-0.004840	-0.276439	-46.850413	
1.00000	-13.946726	-111.824083	-1.244031
-0.004840	-1.049877	-39.775380	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2004
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.936905	13.437170	0.428470
0.004636	0.468539	47.280958	
0.57753	0.936905	13.437170	0.428470
0.004636	0.295084	44.661428	
0.71836	0.936905	13.437170	0.428470
0.004636	0.124471	51.922145	
0.85918	0.936905	13.437170	0.428470
0.004636	0.084841	75.704535	
1.00000	0.936905	13.437170	0.428470
0.004636	0.239328	105.133144	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-12.923082	-83.977097	-0.379608
-0.004439	-0.409543	-54.388229	
0.57753	-12.923082	-83.977097	-0.379608
-0.004439	-0.250927	-21.315336	
0.71836	-12.923082	-83.977097	-0.379608
-0.004439	-0.093918	-6.636046	
0.85918	-12.923082	-83.977097	-0.379608
-0.004439	-0.071842	-2.323700	
1.00000	-12.923082	-83.977097	-0.379608
-0.004439	-0.250732	-2.045060	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	7.997363	30.869600	0.865271
0.005010	0.956933	73.416669	
0.57753	7.997363	30.869600	0.865271
0.005010	0.599577	64.428727	
0.71836	7.997363	30.869600	0.865271
0.005010	0.246289	64.769748	
0.85918	7.997363	30.869600	0.865271
0.005010	0.107396	80.105499	
1.00000	7.997363	30.869600	0.865271
0.005010	0.336531	106.869440	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-11.040695	-100.491694	-0.557584
-0.004171	-0.609934	-90.191107	
0.57753	-11.040695	-100.491694	-0.557584
-0.004171	-0.375559	-50.174831	
0.71836	-11.040695	-100.491694	-0.557584
-0.004171	-0.144354	-27.599421	
0.85918	-11.040695	-100.491694	-0.557584
-0.004171	-0.131396	-11.448471	
1.00000	-11.040695	-100.491694	-0.557584
-0.004171	-0.492710	-13.647104	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	10.765788	79.189531	1.522985
0.003461	1.695733	167.077545	
0.57753	10.765788	79.189531	1.522985
0.003461	1.060688	137.221131	
0.71836	10.765788	79.189531	1.522985
0.003461	0.428681	113.755715	
0.85918	10.765788	79.189531	1.522985
0.003461	0.168951	101.364740	
1.00000	10.765788	79.189531	1.522985
0.003461	0.613268	99.723808	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-16.650700	-102.141649	-1.066886
-0.003588	-1.182545	-119.202747	
0.57753	-16.650700	-102.141649	-1.066886
-0.003588	-0.734897	-78.045753	
0.71836	-16.650700	-102.141649	-1.066886
-0.003588	-0.288385	-48.636252	
0.85918	-16.650700	-102.141649	-1.066886
-0.003588	-0.220675	-25.374929	
1.00000	-16.650700	-102.141649	-1.066886
-0.003588	-0.858147	-19.098707	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2005
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	11.632083	79.489525	1.607531
0.003358	1.795511	168.243280	
0.57753	11.632083	79.489525	1.607531
0.003358	1.124824	137.850032	
0.71836	11.632083	79.489525	1.607531
0.003358	0.455993	112.804642	
0.85918	11.632083	79.489525	1.607531
0.003358	0.176530	96.918812	
1.00000	11.632083	79.489525	1.607531
0.003358	0.654794	90.071217	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-16.287077	-89.863629	-1.146872
-0.003008	-1.274012	-125.545916	
0.57753	-16.287077	-89.863629	-1.146872
-0.003008	-0.792922	-89.404539	
0.71836	-16.287077	-89.863629	-1.146872
-0.003008	-0.312839	-63.127020	
0.85918	-16.287077	-89.863629	-1.146872
-0.003008	-0.227170	-41.670776	
1.00000	-16.287077	-89.863629	-1.146872
-0.003008	-0.899623	-34.786765	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	2.271781	20.165011	0.491088
0.000671	0.556925	47.147013	
0.57753	2.271781	20.165011	0.491088
0.000671	0.351160	38.847835	
0.71836	2.271781	20.165011	0.491088
0.000671	0.145684	30.564899	
0.85918	2.271781	20.165011	0.491088
0.000671	0.059297	22.317264	
1.00000	2.271781	20.165011	0.491088
0.000671	0.236316	14.210801	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-5.709393	-7.359996	-0.422357
-4.09E-06	-0.472013	-40.238345	
0.57753	-5.709393	-7.359996	-0.422357
-4.09E-06	-0.294940	-37.359758	
0.71836	-5.709393	-7.359996	-0.422357
-4.09E-06	0.117943	-34.535668	
0.85918	-5.709393	-7.359996	-0.422357
-4.09E-06	-0.059853	-31.763173	
1.00000	-5.709393	-7.359996	-0.422357
-4.09E-06	-0.266298	-29.097610	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	11.605316	37.027430	0.941351
0.001355	1.057125	75.749832	
0.57753	11.605316	37.027430	0.941351
0.001355	0.662930	60.622121	
0.71836	11.605316	37.027430	0.941351
0.001355	0.269836	45.881198	
0.85918	11.605316	37.027430	0.941351
0.001355	0.094665	32.157748	
1.00000	11.605316	37.027430	0.941351
0.001355	0.374924	19.692681	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-6.910809	-20.713625	-0.669716
-0.000129	-0.758520	-70.970950	
0.57753	-6.910809	-20.713625	-0.669716
-0.000129	-0.467804	-65.838807	
0.71836	-6.910809	-20.713625	-0.669716
-0.000129	-0.187276	-58.696259	
0.85918	-6.910809	-20.713625	-0.669716
-0.000129	-0.125476	-52.896151	
1.00000	-6.910809	-20.713625	-0.669716
-0.000129	-0.520405	-48.444713	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2006
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.066997	42.189016	1.134948
0.001453	1.280844	93.267090	
0.57753	9.066997	42.189016	1.134948
0.001453	0.805339	78.186730	
0.71836	9.066997	42.189016	1.134948
0.001453	0.331308	64.063056	
0.85918	9.066997	42.189016	1.134948
0.001453	0.114469	54.089419	
1.00000	9.066997	42.189016	1.134948
0.001453	0.443832	54.335962	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-10.106270	-58.467659	-0.786890
-5.44E-06	-0.874818	-104.099352	
0.57753	-10.106270	-58.467659	-0.786890
-5.44E-06	-0.537559	-80.612660	
0.71836	-10.106270	-58.467659	-0.786890
-5.44E-06	-0.214535	-58.005348	
0.85918	-10.106270	-58.467659	-0.786890
-5.44E-06	-0.143739	-42.134617	
1.00000	-10.106270	-58.467659	-0.786890
-5.44E-06	-0.619238	-41.844154	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.427829	74.528637	1.458668
0.003667	1.631465	170.151754	
0.57753	9.427829	74.528637	1.458668
0.003667	1.023261	142.024911	
0.71836	9.427829	74.528637	1.458668
0.003667	0.418538	119.634908	
0.85918	9.427829	74.528637	1.458668
0.003667	0.173197	107.260424	
1.00000	9.427829	74.528637	1.458668
0.003667	0.629765	103.491643	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-18.588473	-86.313749	-1.095347
-0.002859	-1.213441	-119.466405	
0.57753	-18.588473	-86.313749	-1.095347
-0.002859	-0.753767	-85.078966	
0.71836	-18.588473	-86.313749	-1.095347
-0.002859	-0.295927	-61.302374	
0.85918	-18.588473	-86.313749	-1.095347
-0.002859	-0.202085	-43.432999	
1.00000	-18.588473	-86.313749	-1.095347
-0.002859	-0.812721	-38.760662	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	13.515181	81.003223	1.047259
0.006321	1.165866	161.978022	
0.57753	13.515181	81.003223	1.047259
0.006321	0.731448	133.243742	
0.71836	13.515181	81.003223	1.047259
0.006321	0.299375	111.591001	
0.85918	13.515181	81.003223	1.047259
0.006321	0.141265	103.624292	
1.00000	13.515181	81.003223	1.047259
0.006321	0.502616	109.926141	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-16.424480	-126.709391	-0.875653
-0.007861	-0.977273	-135.517312	
0.57753	-16.424480	-126.709391	-0.875653
-0.007861	-0.610236	-93.622796	
0.71836	-16.424480	-126.709391	-0.875653
-0.007861	-0.243176	-64.037606	
0.85918	-16.424480	-126.709391	-0.875653
-0.007861	-0.158786	-50.680177	
1.00000	-16.424480	-126.709391	-0.875653
-0.007861	-0.590204	-45.507510	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2007
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	17.297254	79.489525	1.852649
0.006305	2.055030	170.151754	
0.57753	17.297254	79.489525	1.852649
0.006305	1.283280	142.024911	
0.71836	17.297254	79.489525	1.852649
0.006305	0.514833	119.634908	
0.85918	17.297254	79.489525	1.852649
0.006305	0.197983	107.260424	
1.00000	17.297254	79.489525	1.852649
0.006305	0.711375	110.809173	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-18.588473	-126.754368	-1.244031
-0.007804	-1.384895	-146.892722	
0.57753	-18.588473	-126.754368	-1.244031
-0.007804	-0.863352	-101.829376	
0.71836	-18.588473	-126.754368	-1.244031
-0.007804	-0.343349	-72.228729	
0.85918	-18.588473	-126.754368	-1.244031
-0.007804	-0.276439	-52.896151	
1.00000	-18.588473	-126.754368	-1.244031
-0.007804	-1.049877	-48.444713	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	17.297254	81.003223	1.852649
0.006321	2.055030	170.151754	
0.57753	17.297254	81.003223	1.852649
0.006321	1.283280	142.024911	
0.71836	17.297254	81.003223	1.852649
0.006321	0.514833	119.634908	
0.85918	17.297254	81.003223	1.852649
0.006321	0.197983	107.260424	
1.00000	17.297254	81.003223	1.852649
0.006321	0.711375	110.809173	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-18.588473	-126.754368	-1.244031
-0.007861	-1.384895	-146.892722	
0.57753	-18.588473	-126.754368	-1.244031
-0.007861	-0.863352	-101.829376	
0.71836	-18.588473	-126.754368	-1.244031
-0.007861	-0.343349	-72.228729	
0.85918	-18.588473	-126.754368	-1.244031
-0.007861	-0.276439	-52.896151	
1.00000	-18.588473	-126.754368	-1.244031
-0.007861	-1.049877	-48.444713	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	17.297254	81.003223	1.852649
0.006321	2.055030	170.151754	
0.57753	17.297254	81.003223	1.852649
0.006321	1.283280	142.024911	
0.71836	17.297254	81.003223	1.852649
0.006321	0.514833	119.634908	
0.85918	17.297254	81.003223	1.852649
0.006321	0.197983	107.260424	
1.00000	17.297254	81.003223	1.852649
0.006321	0.711375	110.809173	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-18.588473	-126.754368	-1.244031
-0.007861	-1.384895	-146.892722	
0.57753	-18.588473	-126.754368	-1.244031
-0.007861	-0.863352	-101.829376	
0.71836	-18.588473	-126.754368	-1.244031
-0.007861	-0.343349	-72.228729	
0.85918	-18.588473	-126.754368	-1.244031
-0.007861	-0.276439	-52.896151	
1.00000	-18.588473	-126.754368	-1.244031
-0.007861	-1.049877	-48.444713	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2008
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 175 ========== LENGTH = 2.977856

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.522210	45.318699	0.577925
7.38E-06	0.327243	2.214980	
0.14086	6.522210	45.318699	0.577925
7.38E-06	0.084743	5.754672	
0.28172	6.522210	45.318699	0.577925
7.38E-06	0.160380	17.027385	
0.42258	6.522210	45.318699	0.577925
7.38E-06	0.411687	28.744968	
0.56344	6.522210	45.318699	0.577925
7.38E-06	0.662399	40.488316	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.393323	-28.187034	-0.597697
-0.001399	-0.340567	-21.320890	
0.14086	-3.393323	-28.187034	-0.597697
-0.001399	-0.089895	-39.568307	
0.28172	-3.393323	-28.187034	-0.597697
-0.001399	-0.157604	-58.457473	
0.42258	-3.393323	-28.187034	-0.597697
-0.001399	-0.400016	-77.368771	
0.56344	-3.393323	-28.187034	-0.597697
-0.001399	-0.642432	-96.311596	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.172058	138.778726	0.920444
0.006093	0.549190	107.161291	
0.14086	6.172058	138.778726	0.920444
0.006093	0.163980	86.837094	
0.28172	6.172058	138.778726	0.920444
0.006093	0.227899	73.843822	
0.42258	6.172058	138.778726	0.920444
0.006093	0.580434	82.837258	
0.56344	6.172058	138.778726	0.920444
0.006093	0.932950	102.719274	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.969174	-51.462771	-0.840402
-0.008035	-0.477290	-12.841819	
0.14086	-17.969174	-51.462771	-0.840402
-0.008035	-0.134880	-37.949576	
0.28172	-17.969174	-51.462771	-0.840402
-0.008035	-0.246092	-64.500765	
0.42258	-17.969174	-51.462771	-0.840402
-0.008035	-0.611497	-97.848618	
0.56344	-17.969174	-51.462771	-0.840402
-0.008035	-0.995977	-152.237686	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.585595	121.824771	1.119829
0.004290	0.653591	96.295546	
0.14086	8.585595	121.824771	1.119829
0.004290	0.184507	99.845824	
0.28172	8.585595	121.824771	1.119829
0.004290	0.228464	111.394303	
0.42258	8.585595	121.824771	1.119829
0.004290	0.580809	138.228764	
0.56344	8.585595	121.824771	1.119829
0.004290	0.933158	172.538458	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.697734	-84.959080	-0.840012
-0.005799	-0.476382	-14.296036	
0.14086	-14.697734	-84.959080	-0.840012
-0.005799	-0.130848	-42.360747	
0.28172	-14.697734	-84.959080	-0.840012
-0.005799	-0.301559	-71.956113	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2009
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.42258	-14.697734	-84.959080	-0.840012
-0.005799	-0.757227	-106.154793	
0.56344	-14.697734	-84.959080	-0.840012
-0.005799	-1.225863	-154.625868	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.955596	112.450138	1.153379
0.004206	0.669044	83.464968	
0.14086	12.955596	112.450138	1.153379
0.004206	0.185735	83.418953	
0.28172	12.955596	112.450138	1.153379
0.004206	0.245248	93.440454	
0.42258	12.955596	112.450138	1.153379
0.004206	0.622707	117.327056	
0.56344	12.955596	112.450138	1.153379
0.004206	1.000169	147.477650	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.355156	-77.527238	-0.899869
-0.004817	-0.509775	-30.742676	
0.14086	-13.355156	-77.527238	-0.899869
-0.004817	-0.137940	-52.546839	
0.28172	-13.355156	-77.527238	-0.899869
-0.004817	-0.311579	-75.757105	
0.42258	-13.355156	-77.527238	-0.899869
-0.004817	-0.783715	-103.409022	
0.56344	-13.355156	-77.527238	-0.899869
-0.004817	-1.266610	-145.340433	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.077076	67.904486	0.382194
0.005094	0.240805	110.236762	
0.14086	0.077076	67.904486	0.382194
0.005094	0.081342	100.390647	
0.28172	0.077076	67.904486	0.382194
0.005094	0.055122	91.185179	
0.42258	0.077076	67.904486	0.382194
0.005094	0.136055	93.804527	
0.56344	0.077076	67.904486	0.382194
0.005094	0.218082	117.358726	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.786147	-45.315375	-0.194284
-0.005305	-0.108025	-1.957331	
0.14086	-12.786147	-45.315375	-0.194284
-0.005305	-0.035064	-3.396092	
0.28172	-12.786147	-45.315375	-0.194284
-0.005305	-0.099306	-5.526943	
0.42258	-12.786147	-45.315375	-0.194284
-0.005305	-0.242275	-13.222578	
0.56344	-12.786147	-45.315375	-0.194284
-0.005305	-0.401249	-38.486833	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.680543	77.933125	0.693353
0.005206	0.414430	109.311140	
0.14086	7.680543	77.933125	0.693353
0.005206	0.124414	107.176918	
0.28172	7.680543	77.933125	0.693353
0.005206	0.091587	108.179964	
0.42258	7.680543	77.933125	0.693353
0.005206	0.229689	127.169961	
0.56344	7.680543	77.933125	0.693353
0.005206	0.367798	154.573087	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.755204	-69.142368	-0.329254
-0.004938	-0.184650	-14.556171	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2010
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.14086	-10.755204	-69.142368	-0.329254
-0.004938	-0.054312	-18.940482	
0.28172	-10.755204	-69.142368	-0.329254
-0.004938	-0.185223	-24.071477	
0.42258	-10.755204	-69.142368	-0.329254
-0.004938	-0.459949	-35.193835	
0.56344	-10.755204	-69.142368	-0.329254
-0.004938	-0.749536	-64.750179	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.141984	116.692040	1.003240
0.003775	0.583726	101.560654	
0.14086	9.141984	116.692040	1.003240
0.003775	0.163432	94.135252	
0.28172	9.141984	116.692040	1.003240
0.003775	0.193068	105.534802	
0.42258	9.141984	116.692040	1.003240
0.003775	0.489375	131.063919	
0.56344	9.141984	116.692040	1.003240
0.003775	0.785674	162.814069	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.380319	-79.207114	-0.706378
-0.004593	-0.399577	-18.937219	
0.14086	-16.380319	-79.207114	-0.706378
-0.004593	-0.108774	-25.462272	
0.28172	-16.380319	-79.207114	-0.706378
-0.004593	-0.270639	-54.303030	
0.42258	-16.380319	-79.207114	-0.706378
-0.004593	-0.680066	-87.539154	
0.56344	-16.380319	-79.207114	-0.706378
-0.004593	-1.100005	-134.236571	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.222545	108.039877	1.048519
0.003819	0.607769	90.067557	
0.14086	10.222545	108.039877	1.048519
0.003819	0.168364	79.343392	
0.28172	10.222545	108.039877	1.048519
0.003819	0.220350	88.274211	
0.42258	10.222545	108.039877	1.048519
0.003819	0.558429	109.737356	
0.56344	10.222545	108.039877	1.048519
0.003819	0.896493	136.445387	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.192407	-70.197269	-0.805946
-0.003843	-0.455810	-33.365069	
0.14086	-15.192407	-70.197269	-0.805946
-0.003843	-0.122261	-37.461276	
0.28172	-15.192407	-70.197269	-0.805946
-0.003843	-0.282519	-60.164609	
0.42258	-15.192407	-70.197269	-0.805946
-0.003843	-0.712787	-86.490294	
0.56344	-15.192407	-70.197269	-0.805946
-0.003843	-1.151863	-124.248327	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.071774	16.101044	0.318457
0.001049	0.183112	10.959879	
0.14086	2.071774	16.101044	0.318457
0.001049	0.094409	5.774862	
0.28172	2.071774	16.101044	0.318457
0.001049	0.094074	2.965261	
0.42258	2.071774	16.101044	0.318457
0.001049	0.238474	1.907088	
0.56344	2.071774	16.101044	0.318457
0.001049	0.382859	2.852431	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2011
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.088670	-5.980427	-0.344213
-1.05E-05	-0.194681	-26.285700	
0.14086	-3.088670	-5.980427	-0.344213
-1.05E-05	-0.050201	-24.155646	
0.28172	-3.088670	-5.980427	-0.344213
-1.05E-05	-0.084077	-22.154623	
0.42258	-3.088670	-5.980427	-0.344213
-1.05E-05	-0.217635	-20.265901	
0.56344	-3.088670	-5.980427	-0.344213
-1.05E-05	-0.351214	-18.447451	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.117240	31.533119	0.591411
0.001944	0.337566	17.140635	
0.14086	11.117240	31.533119	0.591411
0.001944	0.089427	9.808317	
0.28172	11.117240	31.533119	0.591411
0.001944	0.151690	8.028602	
0.42258	11.117240	31.533119	0.591411
0.001944	0.383724	12.059148	
0.56344	11.117240	31.533119	0.591411
0.001944	0.615732	17.288140	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.268244	-19.009233	-0.553109
-0.000235	-0.312301	-45.520359	
0.14086	-4.268244	-19.009233	-0.553109
-0.000235	-0.080474	-41.750360	
0.28172	-4.268244	-19.009233	-0.553109
-0.000235	-0.159338	-39.996483	
0.42258	-4.268244	-19.009233	-0.553109
-0.000235	-0.406746	-39.653696	
0.56344	-4.268244	-19.009233	-0.553109
-0.000235	-0.654770	-42.585909	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.217030	38.232405	0.834048
0.001787	0.476670	60.026776	
0.14086	9.217030	38.232405	0.834048
0.001787	0.126910	63.076090	
0.28172	9.217030	38.232405	0.834048
0.001787	0.157125	81.426407	
0.42258	9.217030	38.232405	0.834048
0.001787	0.395768	105.554199	
0.56344	9.217030	38.232405	0.834048
0.001787	0.634646	130.864584	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.519189	-65.645704	-0.569490
-0.000325	-0.320874	-39.341680	
0.14086	-6.519189	-65.645704	-0.569490
-0.000325	-0.082332	-41.708877	
0.28172	-6.519189	-65.645704	-0.569490
-0.000325	-0.224219	-44.342570	
0.42258	-6.519189	-65.645704	-0.569490
-0.000325	-0.573013	-48.069522	
0.56344	-6.519189	-65.645704	-0.569490
-0.000325	-0.922784	-54.629346	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.646220	106.002223	0.991285
0.004548	0.578793	104.504995	
0.14086	8.646220	106.002223	0.991285
0.004548	0.163503	88.075185	
0.28172	8.646220	106.002223	0.991285
0.004548	0.206382	87.631743	
0.42258	8.646220	106.002223	0.991285
0.004548	0.522258	105.537375	
0.56344	8.646220	106.002223	0.991285
0.004548	0.838113	129.934040	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2012
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.195274	-65.051507	-0.753003
-0.004069	-0.425351	-36.263283	
0.14086	-16.195274	-65.051507	-0.753003
-0.004069	-0.114806	-35.098297	
0.28172	-16.195274	-65.051507	-0.753003
-0.004069	-0.265411	-51.142801	
0.42258	-16.195274	-65.051507	-0.753003
-0.004069	-0.669938	-72.895184	
0.56344	-16.195274	-65.051507	-0.753003
-0.004069	-1.084871	-107.540360	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.702546	39.876939	1.040084
4.37E-06	0.574590	2.473943	
0.14086	11.702546	39.876939	1.040084
4.37E-06	0.138346	5.098036	
0.28172	11.702546	39.876939	1.040084
4.37E-06	0.229676	19.116881	
0.42258	11.702546	39.876939	1.040084
4.37E-06	0.595028	33.537098	
0.56344	11.702546	39.876939	1.040084
4.37E-06	0.959766	48.231283	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.462376	-36.489086	-0.869634
-0.001454	-0.499094	-32.394042	
0.14086	-3.462376	-36.489086	-0.869634
-0.001454	-0.136696	-38.981630	
0.28172	-3.462376	-36.489086	-0.869634
-0.001454	-0.297602	-54.651592	
0.42258	-3.462376	-36.489086	-0.869634
-0.001454	-0.733593	-70.572183	
0.56344	-3.462376	-36.489086	-0.869634
-0.001454	-1.169816	-86.728151	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.031497	128.000108	1.604980
0.006100	0.930895	110.856167	
0.14086	11.031497	128.000108	1.604980
0.006100	0.252712	88.229669	
0.28172	11.031497	128.000108	1.604980
0.006100	0.328660	78.102716	
0.42258	11.031497	128.000108	1.604980
0.006100	0.839145	88.492599	
0.56344	11.031497	128.000108	1.604980
0.006100	1.348855	111.092133	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.869068	-59.158135	-1.216328
-0.008146	-0.695556	-25.571125	
0.14086	-19.869068	-59.158135	-1.216328
-0.008146	-0.202975	-36.433907	
0.28172	-19.869068	-59.158135	-1.216328
-0.008146	-0.441017	-57.654973	
0.42258	-19.869068	-59.158135	-1.216328
-0.008146	-1.095974	-67.235553	
0.56344	-19.869068	-59.158135	-1.216328
-0.008146	-1.765259	-138.928531	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.767931	116.601732	1.820684
0.004498	1.042455	103.974581	
0.14086	12.767931	116.601732	1.820684
0.004498	0.280679	101.499970	
0.28172	12.767931	116.601732	1.820684
0.004498	0.338172	111.022326	
0.42258	12.767931	116.601732	1.820684
0.004498	0.861782	135.353946	
0.56344	12.767931	116.601732	1.820684
0.004498	1.385676	168.434957	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2013
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.019749	-84.331385	-1.247837
-0.006082	-0.709589	-25.104725	
0.14086	-17.019749	-84.331385	-1.247837
-0.006082	-0.198783	-40.979128	
0.28172	-17.019749	-84.331385	-1.247837
-0.006082	-0.501240	-65.975500	
0.42258	-17.019749	-84.331385	-1.247837
-0.006082	-1.251243	-97.075548	
0.56344	-17.019749	-84.331385	-1.247837
-0.006082	-2.012390	-143.948707	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.600456	110.777367	1.881490
0.004336	1.072537	90.409979	
0.14086	16.600456	110.777367	1.881490
0.004336	0.285148	84.679647	
0.28172	16.600456	110.777367	1.881490
0.004336	0.348856	93.110252	
0.42258	16.600456	110.777367	1.881490
0.004336	0.890156	114.663050	
0.56344	16.600456	110.777367	1.881490
0.004336	1.431670	143.593794	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.744763	-76.762679	-1.290301
-0.005054	-0.734613	-39.771128	
0.14086	-15.744763	-76.762679	-1.290301
-0.005054	-0.203955	-52.710179	
0.28172	-15.744763	-76.762679	-1.290301
-0.005054	-0.519094	-76.109391	
0.42258	-15.744763	-76.762679	-1.290301
-0.005054	-1.296836	-105.001722	
0.56344	-15.744763	-76.762679	-1.290301
-0.005054	-2.084040	-147.046658	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.042884	57.685306	0.541657
0.004274	0.335523	105.159067	
0.14086	0.042884	57.685306	0.541657
0.004274	0.109962	98.478481	
0.28172	0.042884	57.685306	0.541657
0.004274	0.080550	92.360563	
0.42258	0.042884	57.685306	0.541657
0.004274	0.195222	100.166715	
0.56344	0.042884	57.685306	0.541657
0.004274	0.309902	116.181056	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.045601	-42.188065	-0.274226
-0.004535	-0.152269	-2.029853	
0.14086	-15.045601	-42.188065	-0.274226
-0.004535	-0.050817	-3.111519	
0.28172	-15.045601	-42.188065	-0.274226
-0.004535	-0.137414	-5.003655	
0.42258	-15.045601	-42.188065	-0.274226
-0.004535	-0.351769	-12.432501	
0.56344	-15.045601	-42.188065	-0.274226
-0.004535	-0.576099	-35.055618	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.231817	73.169841	0.966992
0.004515	0.569064	106.896110	
0.14086	7.231817	73.169841	0.966992
0.004515	0.165621	105.031939	
0.28172	7.231817	73.169841	0.966992
0.004515	0.135578	105.901474	
0.42258	7.231817	73.169841	0.966992
0.004515	0.337378	120.858556	
0.56344	7.231817	73.169841	0.966992
0.004515	0.540590	143.989231	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2014
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.115136	-60.855407	-0.483081
-0.004328	-0.271430	-13.633815	
0.14086	-13.115136	-60.855407	-0.483081
-0.004328	-0.081601	-19.564923	
0.28172	-13.115136	-60.855407	-0.483081
-0.004328	-0.257676	-26.936634	
0.42258	-13.115136	-60.855407	-0.483081
-0.004328	-0.650166	-40.007637	
0.56344	-13.115136	-60.855407	-0.483081
-0.004328	-1.053674	-67.656815	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.277679	106.059578	1.605661
0.003038	0.918707	99.719088	
0.14086	10.277679	106.059578	1.605661
0.003038	0.246912	91.993483	
0.28172	10.277679	106.059578	1.605661
0.003038	0.283998	105.853113	
0.42258	10.277679	106.059578	1.605661
0.003038	0.719100	130.199355	
0.56344	10.277679	106.059578	1.605661
0.003038	1.154326	160.347397	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.975546	-76.515444	-1.036646
-0.003914	-0.585381	-19.067588	
0.14086	-17.975546	-76.515444	-1.036646
-0.003914	-0.158830	-23.882245	
0.28172	-17.975546	-76.515444	-1.036646
-0.003914	-0.437793	-51.642600	
0.42258	-17.975546	-76.515444	-1.036646
-0.003914	-1.102356	-83.971583	
0.56344	-17.975546	-76.515444	-1.036646
-0.003914	-1.774734	-125.890607	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.236669	102.147381	1.720820
0.003219	0.982600	90.077151	
0.14086	11.236669	102.147381	1.720820
0.003219	0.262210	77.863236	
0.28172	11.236669	102.147381	1.720820
0.003219	0.311208	88.589785	
0.42258	11.236669	102.147381	1.720820
0.003219	0.788512	109.119449	
0.56344	11.236669	102.147381	1.720820
0.003219	1.265936	134.580454	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.424461	-68.373246	-1.137475
-0.003280	-0.642802	-34.771069	
0.14086	-17.424461	-68.373246	-1.137475
-0.003280	-0.172627	-37.030636	
0.28172	-17.424461	-68.373246	-1.137475
-0.003280	-0.468294	-62.001387	
0.42258	-17.424461	-68.373246	-1.137475
-0.003280	-1.183146	-91.747392	
0.56344	-17.424461	-68.373246	-1.137475
-0.003280	-1.903519	-129.538592	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.293325	20.366374	0.594728
0.001058	0.341041	14.225226	
0.14086	2.293325	20.366374	0.594728
0.001058	0.091489	6.673847	
0.28172	2.293325	20.366374	0.594728
0.001058	0.118897	2.730105	
0.42258	2.293325	20.366374	0.594728
0.001058	0.300747	2.700541	
0.56344	2.293325	20.366374	0.594728
0.001058	0.482603	3.452924	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2015
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.751885	-7.389575	-0.433607
-7.34E-06	-0.245019	-29.108831	
0.14086	-5.751885	-7.389575	-0.433607
-7.34E-06	-0.063289	-26.518373	
0.28172	-5.751885	-7.389575	-0.433607
-7.34E-06	-0.157178	-26.567169	
0.42258	-5.751885	-7.389575	-0.433607
-7.34E-06	-0.406869	-30.162693	
0.56344	-5.751885	-7.389575	-0.433607
-7.34E-06	-0.656167	-34.131582	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.619788	38.549541	1.023170
0.001833	0.580070	19.716783	
0.14086	11.619788	38.549541	1.023170
0.001833	0.151208	9.782867	
0.28172	11.619788	38.549541	1.023170
0.001833	0.191389	7.515995	
0.42258	11.619788	38.549541	1.023170
0.001833	0.487422	11.410881	
0.56344	11.619788	38.549541	1.023170
0.001833	0.783677	16.802580	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.030450	-19.819073	-0.706581
-0.000158	-0.402115	-48.464233	
0.14086	-7.030450	-19.819073	-0.706581
-0.000158	-0.106619	-46.405283	
0.28172	-7.030450	-19.819073	-0.706581
-0.000158	-0.278188	-50.164479	
0.42258	-7.030450	-19.819073	-0.706581
-0.000158	-0.706876	-58.443293	
0.56344	-7.030450	-19.819073	-0.706581
-0.000158	-1.135647	-67.777367	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.172707	42.514673	1.292593
0.001356	0.734406	54.340662	
0.14086	9.172707	42.514673	1.292593
0.001356	0.192652	63.627327	
0.28172	9.172707	42.514673	1.292593
0.001356	0.211423	79.253678	
0.42258	9.172707	42.514673	1.292593
0.001356	0.539152	100.001338	
0.56344	9.172707	42.514673	1.292593
0.001356	0.855668	121.689149	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.190261	-59.233971	-0.767401
-7.50E-06	-0.431016	-41.848470	
0.14086	-10.190261	-59.233971	-0.767401
-7.50E-06	-0.109672	-44.969053	
0.28172	-10.190261	-59.233971	-0.767401
-7.50E-06	-0.347797	-52.203172	
0.42258	-10.190261	-59.233971	-0.767401
-7.50E-06	-0.889621	-63.139447	
0.56344	-10.190261	-59.233971	-0.767401
-7.50E-06	-1.431755	-74.501858	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.004412	99.250357	1.626848
0.003633	0.936949	103.506896	
0.14086	9.004412	99.250357	1.626848
0.003633	0.255848	87.773055	
0.28172	9.004412	99.250357	1.626848
0.003633	0.288737	89.704487	
0.42258	9.004412	99.250357	1.626848
0.003633	0.727219	106.663203	
0.56344	9.004412	99.250357	1.626848
0.003633	1.166668	129.370260	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2016
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.844705	-63.031292	-1.046310
-0.003171	-0.589497	-38.750942	
0.14086	-19.844705	-63.031292	-1.046310
-0.003171	-0.158498	-37.814960	
0.28172	-19.844705	-63.031292	-1.046310
-0.003171	-0.436670	-55.513213	
0.42258	-19.844705	-63.031292	-1.046310
-0.003171	-1.110992	-81.694748	
0.56344	-19.844705	-63.031292	-1.046310
-0.003171	-1.792194	-117.046071	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.955596	138.778726	1.153379
0.006093	0.669044	110.236762	
0.14086	12.955596	138.778726	1.153379
0.006093	0.185735	107.178918	
0.28172	12.955596	138.778726	1.153379
0.006093	0.245248	111.394303	
0.42258	12.955596	138.778726	1.153379
0.006093	0.627707	138.228764	
0.56344	12.955596	138.778726	1.153379
0.006093	1.000169	172.538458	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.969174	-84.959080	-0.899869
-0.008035	-0.509775	-45.520359	
0.14086	-17.969174	-84.959080	-0.899869
-0.008035	-0.137940	-52.546839	
0.28172	-17.969174	-84.959080	-0.899869
-0.008035	-0.371579	-75.757105	
0.42258	-17.969174	-84.959080	-0.899869
-0.008035	-0.783715	-106.154793	
0.56344	-17.969174	-84.959080	-0.899869
-0.008035	-1.266610	-154.625868	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.600456	128.000108	1.881490
0.006100	1.072537	110.856167	
0.14086	16.600456	128.000108	1.881490
0.006100	0.285148	105.031939	
0.28172	16.600456	128.000108	1.881490
0.006100	0.348856	111.022326	
0.42258	16.600456	128.000108	1.881490
0.006100	0.890156	135.353946	
0.56344	16.600456	128.000108	1.881490
0.006100	1.431670	168.434957	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.869068	-84.331385	-1.290301
-0.008146	-0.734613	-48.464233	
0.14086	-19.869068	-84.331385	-1.290301
-0.008146	-0.203955	-52.710179	
0.28172	-19.869068	-84.331385	-1.290301
-0.008146	-0.519094	-76.109391	
0.42258	-19.869068	-84.331385	-1.290301
-0.008146	-1.296836	-105.001722	
0.56344	-19.869068	-84.331385	-1.290301
-0.008146	-2.084040	-147.046658	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.600456	138.778726	1.881490
0.006100	1.072537	110.856167	
0.14086	16.600456	138.778726	1.881490
0.006100	0.285148	107.178918	
0.28172	16.600456	138.778726	1.881490
0.006100	0.348856	111.394303	
0.42258	16.600456	138.778726	1.881490
0.006100	0.890156	138.228764	
0.56344	16.600456	138.778726	1.881490
0.006100	1.431670	172.538458	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2017
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.869068	-84.959080	-1.290301
-0.008146	-0.734613	-48.464233	
0.14086	-19.869068	-84.959080	-1.290301
-0.008146	-0.203955	-52.710179	
0.28172	-19.869068	-84.959080	-1.290301
-0.008146	-0.519094	-76.109391	
0.42258	-19.869068	-84.959080	-1.290301
-0.008146	-1.296836	-106.154793	
0.56344	-19.869068	-84.959080	-1.290301
-0.008146	-2.084040	-154.625868	

ELEM 176 ========== LENGTH = 2.977458

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	15.941639	12.763819	0.577069
0.000346	0.647936	7.409872	
0.57746	15.941639	12.763819	0.577069
0.000346	0.405934	4.535325	
0.71831	15.941639	12.763819	0.577069
0.000346	0.163912	3.445567	
0.85915	15.941639	12.763819	0.577069
0.000346	0.076272	2.431870	
1.00000	15.941639	12.763819	0.577069
0.000346	0.321889	1.725486	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-2.470455	-44.877221	-0.586221
-0.001403	-0.661544	-83.333791	
0.57746	-2.470455	-44.877221	-0.586221
-0.001403	-0.415770	-64.590918	
0.71831	-2.470455	-44.877221	-0.586221
-0.001403	-0.170087	-45.888559	
0.85915	-2.470455	-44.877221	-0.586221
-0.001403	-0.081626	-27.519358	
1.00000	-2.470455	-44.877221	-0.586221
-0.001403	-0.320101	-15.845326	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	15.359230	38.660621	0.844328
0.006286	0.952324	68.572914	
0.57746	15.359230	38.660621	0.844328
0.006286	0.598293	53.738398	
0.71831	15.359230	38.660621	0.844328
0.006286	0.244354	48.724651	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2018
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85915	15.359230	38.660621	0.844328
0.006286	0.163588	65.315093	
1.00000	15.359230	38.660621	0.844328
0.006286	0.544782	91.776542	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-27.823320	-126.096166	-0.912793
-0.007523	-1.014138	-131.819805	
0.57746	-27.823320	-126.096166	-0.912793
-0.007523	-0.635093	-82.160216	
0.71831	-27.823320	-126.096166	-0.912793
-0.007523	-0.256572	-53.658804	
0.85915	-27.823320	-126.096166	-0.912793
-0.007523	-0.134035	-31.333887	
1.00000	-27.823320	-126.096166	-0.912793
-0.007523	-0.483508	-11.530810	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.659636	57.477682	1.027168
0.004967	1.160477	95.188147	
0.57746	14.659636	57.477682	1.027168
0.004967	0.729812	71.516256	
0.71831	14.659636	57.477682	1.027168
0.004967	0.299210	56.362363	
0.85915	14.659636	57.477682	1.027168
0.004967	0.165241	61.036353	
1.00000	14.659636	57.477682	1.027168
0.004967	0.582154	74.386040	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-22.360856	-114.566959	-0.996164
-0.005464	-1.107618	-133.383652	
0.57746	-22.360856	-114.566959	-0.996164
-0.005464	-0.692401	-87.810141	
0.71831	-22.360856	-114.566959	-0.996164
-0.005464	-0.277474	-56.821025	
0.85915	-22.360856	-114.566959	-0.996164
-0.005464	-0.148658	-29.615308	
1.00000	-22.360856	-114.566959	-0.996164
-0.005464	-0.575887	-12.520555	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	25.662586	65.693057	1.064840
0.004588	1.203010	110.305916	
0.57746	25.662586	65.693057	1.064840
0.004588	0.756539	83.212327	
0.71831	25.662586	65.693057	1.064840
0.004588	0.310126	63.388749	
0.85915	25.662586	65.693057	1.064840
0.004588	0.161932	60.019296	
1.00000	25.662586	65.693057	1.064840
0.004588	0.584253	64.645223	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-21.471031	-96.799015	-1.008628
-0.004601	-1.123232	-115.365010	
0.57746	-21.471031	-96.799015	-1.008628
-0.004601	-0.702356	-79.003673	
0.71831	-21.471031	-96.799015	-1.008628
-0.004601	-0.281705	-55.198439	
0.85915	-21.471031	-96.799015	-1.008628
-0.004601	-0.152434	-35.292812	
1.00000	-21.471031	-96.799015	-1.008628
-0.004601	-0.594270	-24.583819	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.136187	18.487102	0.288778
0.005226	0.330686	39.781105	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2019
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57746	0.136187	18.487102	0.288778
0.005226	0.209624	34.629089	
0.71831	0.136187	18.487102	0.288778
0.005226	0.088270	38.528642	
0.85915	0.136187	18.487102	0.288778
0.005226	0.084496	60.637374	
1.00000	0.136187	18.487102	0.288778
0.005226	0.219909	88.770104	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-28.766875	-82.962843	-0.326523
-0.005030	-0.350802	-53.279765	
0.57746	-28.766875	-82.962843	-0.326523
-0.005030	-0.217007	-21.522162	
0.71831	-28.766875	-82.962843	-0.326523
-0.005030	-0.083716	-7.693017	
0.85915	-28.766875	-82.962843	-0.326523
-0.005030	-0.050806	-1.302520	
1.00000	-28.766875	-82.962843	-0.326523
-0.005030	-0.170028	-0.821609	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.609047	45.657185	0.585976
0.005501	0.666245	80.731325	
0.57746	11.609047	45.657185	0.585976
0.005501	0.420622	62.186079	
0.71831	11.609047	45.657185	0.585976
0.005501	0.175110	53.573636	
0.85915	11.609047	45.657185	0.585976
0.005501	0.107283	66.865127	
1.00000	11.609047	45.657185	0.585976
0.005501	0.318688	84.529741	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-24.321828	-81.527438	-0.506306
-0.004681	-0.551321	-61.272805	
0.57746	-24.321828	-81.527438	-0.506306
-0.004681	-0.342400	-30.794813	
0.71831	-24.321828	-81.527438	-0.506306
-0.004681	-0.133237	-17.454487	
0.85915	-24.321828	-81.527438	-0.506306
-0.004681	-0.090305	-9.117956	
1.00000	-24.321828	-81.527438	-0.506306
-0.004681	-0.331945	-12.276662	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	16.034795	77.940550	0.917654
0.004315	1.037487	145.640518	
0.57746	16.034795	77.940550	0.917654
0.004315	0.652753	113.404321	
0.71831	16.034795	77.940550	0.917654
0.004315	0.268105	88.840055	
0.85915	16.034795	77.940550	0.917654
0.004315	0.142776	87.802717	
1.00000	16.034795	77.940550	0.917654
0.004315	0.507887	76.780638	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-34.282352	-89.845797	-0.868529
-0.004112	-0.964048	-98.368954	
0.57746	-34.282352	-89.845797	-0.868529
-0.004112	-0.601874	-63.773562	
0.71831	-34.282352	-89.845797	-0.868529
-0.004112	-0.239860	-41.406533	
0.85915	-34.282352	-89.845797	-0.868529
-0.004112	-0.131137	-23.298127	
1.00000	-34.282352	-89.845797	-0.868529
-0.004112	-0.512633	-16.337187	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2020
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	17.457468	79.321736	0.951814
0.004045	1.077622	150.117630	
0.57746	17.457468	79.321736	0.951814
0.004045	0.678547	117.213025	
0.71831	17.457468	79.321736	0.951814
0.004045	0.279527	90.614103	
0.85915	17.457468	79.321736	0.951814
0.004045	0.146105	77.988972	
1.00000	17.457468	79.321736	0.951814
0.004045	0.528847	68.612989	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-32.408784	-76.451074	-0.914019
-0.003580	-1.016957	-87.500544	
0.57746	-32.408784	-76.451074	-0.914019
-0.003580	-0.635373	-59.577863	
0.71831	-32.408784	-76.451074	-0.914019
-0.003580	-0.253909	-41.947626	
0.85915	-32.408784	-76.451074	-0.914019
-0.003580	-0.131184	-27.683569	
1.00000	-32.408784	-76.451074	-0.914019
-0.003580	-0.528056	-22.626501	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	2.448378	19.891291	0.263519
0.000661	0.302089	42.318108	
0.57746	2.448378	19.891291	0.263519
0.000661	0.191579	34.004871	
0.71831	2.448378	19.891291	0.263519
0.000661	0.081058	25.706703	
0.85915	2.448378	19.891291	0.263519
0.000661	0.040689	17.473269	
1.00000	2.448378	19.891291	0.263519
0.000661	0.167377	9.473706	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-7.434911	-2.731392	-0.301887
-0.000262	-0.339054	-12.264197	
0.57746	-7.434911	-2.731392	-0.301887
-0.000262	-0.212457	-11.848138	
0.71831	-7.434911	-2.731392	-0.301887
-0.000262	-0.085852	-11.591736	
0.85915	-7.434911	-2.731392	-0.301887
-0.000262	-0.029709	-11.409849	
1.00000	-7.434911	-2.731392	-0.301887
-0.000262	-0.139974	-11.334126	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	22.528564	43.848833	0.527105
0.001403	0.599095	80.601282	
0.57746	22.528564	43.848833	0.527105
0.001403	0.378058	62.449989	
0.71831	22.528564	43.848833	0.527105
0.001403	0.157016	44.763118	
0.85915	22.528564	43.848833	0.527105
0.001403	0.068213	26.278580	
1.00000	22.528564	43.848833	0.527105
0.001403	0.274847	14.186720	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.345424	-6.370367	-0.492553
-0.000471	-0.552240	-18.549237	
0.57746	-10.345424	-6.370367	-0.492553
-0.000471	-0.345801	-19.112469	
0.71831	-10.345424	-6.370367	-0.492553
-0.000471	-0.139335	-21.254031	
0.85915	-10.345424	-6.370367	-0.492553
-0.000471	-0.069238	-24.823466	
1.00000	-10.345424	-6.370367	-0.492553
-0.000471	-0.285738	-30.006775	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2021
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.182240	56.247875	0.723661
0.001881	0.824243	101.165370	
0.57746	11.182240	56.247875	0.723661
0.001881	0.520840	77.707083	
0.71831	11.182240	56.247875	0.723661
0.001881	0.217474	57.249046	
0.85915	11.182240	56.247875	0.723661
0.001881	0.097514	42.941811	
1.00000	11.182240	56.247875	0.723661
0.001881	0.373773	32.591342	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-16.936343	-33.803407	-0.658882
-0.000561	-0.732912	-47.071265	
0.57746	-16.936343	-33.803407	-0.658882
-0.000561	-0.456791	-35.727898	
0.71831	-16.936343	-33.803407	-0.658882
-0.000561	-0.180675	-26.188722	
0.85915	-16.936343	-33.803407	-0.658882
-0.000561	-0.089324	-18.818729	
1.00000	-16.936343	-33.803407	-0.658882
-0.000561	-0.390724	-22.330902	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.658477	79.049998	0.871436
0.004565	0.989597	155.838067	
0.57746	11.658477	79.049998	0.871436
0.004565	0.624232	123.106825	
0.71831	11.658477	79.049998	0.871436
0.004565	0.258937	97.488862	
0.85915	11.658477	79.049998	0.871436
0.004565	0.142776	87.509566	
1.00000	11.658477	79.049998	0.871436
0.004565	0.502324	80.805648	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-37.500183	-72.738198	-0.858787
-0.003851	-0.953105	-75.681146	
0.57746	-37.500183	-72.738198	-0.858787
-0.003851	-0.594987	-49.022868	
0.71831	-37.500183	-72.738198	-0.858787
-0.003851	-0.237054	-34.401516	
0.85915	-37.500183	-72.738198	-0.858787
-0.003851	-0.120119	-23.451109	
1.00000	-37.500183	-72.738198	-0.858787
-0.003851	-0.482876	-21.486825	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	33.488146	12.509475	1.199735
0.000302	1.332294	11.789324	
0.57746	33.488146	12.509475	1.199735
0.000302	0.829305	6.890447	
0.71831	33.488146	12.509475	1.199735
0.000302	0.326422	4.326831	
0.85915	33.488146	12.509475	1.199735
0.000302	0.103553	3.037796	
1.00000	33.488146	12.509475	1.199735
0.000302	0.455401	1.947786	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-3.131226	-66.122192	-0.838104
-0.001492	-0.950438	-130.923313	
0.57746	-3.131226	-66.122192	-0.838104
-0.001492	-0.599059	-103.522779	
0.71831	-3.131226	-66.122192	-0.838104
-0.001492	-0.247055	-76.878310	
0.85915	-3.131226	-66.122192	-0.838104
-0.001492	-0.177234	-51.022013	
1.00000	-3.131226	-66.122192	-0.838104
-0.001492	-0.679243	-27.879289	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2022
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	30.237557	36.263284	1.669212
0.006473	1.863340	69.675496	
0.57746	30.237557	36.263284	1.669212
0.006473	1.163642	55.952809	
0.71831	30.237557	36.263284	1.669212
0.006473	0.467032	51.381970	
0.85915	30.237557	36.263284	1.669212
0.006473	0.229739	70.846840	
1.00000	30.237557	36.263284	1.669212
0.006473	0.820721	95.516237	

COMB DL-G1-2 ---------- MIN

```
REL DIST P V2 V3
T M2 M3
0.43661 -35.480856 -145.446059 -1.407623
-0.007528 -1.552517 -180.764292
0.57746 -35.480856 -145.446059 -1.407623
-0.007528 -0.968573 -120.925016
0.71831 -35.480856 -145.446059 -1.407623
-0.007528 -0.386371 -81.513624
0.85915 -35.480856 -145.446059 -1.407623
-0.007528 -0.257136 -50.482315
1.00000 -35.480856 -145.446059 -1.407623
-0.007528 -0.954453 -23.413963

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 29.090374 63.239153 1.864073
0.005205 2.088329 115.816680
0.57746 29.090374 63.239153 1.864073
0.005205 1.306485 90.307898
0.71831 29.090374 63.239153 1.864073
0.005205 0.527301 73.303703
0.85915 29.090374 63.239153 1.864073
0.005205 0.231664 72.668055
1.00000 29.090374 63.239153 1.864073
0.005205 0.859316 80.501875

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -31.689052 -129.666611 -1.496002
-0.005702 -1.657253 -172.169091
0.57746 -31.689052 -129.666611 -1.496002
-0.005702 -1.034315 -118.901683
0.71831 -31.689052 -129.666611 -1.496002
-0.005702 -0.411983 -80.339904
0.85915 -31.689052 -129.666611 -1.496002
-0.005702 -0.269610 -47.326777
1.00000 -31.689052 -129.666611 -1.496002
-0.005702 -1.048799 -22.900726

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 37.610248 81.417348 1.902297
0.004772 2.129997 140.673826
0.57746 37.610248 81.417348 1.902297
0.004772 1.331979 108.067415
0.71831 37.610248 81.417348 1.902297
0.004772 0.536716 83.085637
0.85915 37.610248 81.417348 1.902297
0.004772 0.223506 72.314087
1.00000 37.610248 81.417348 1.902297
0.004772 0.841627 70.065654

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -30.235953 -109.600236 -1.474328
-0.004799 -1.637335 -149.055276
0.57746 -30.235953 -109.600236 -1.474328
-0.004799 -1.022810 -105.420132
0.71831 -30.235953 -109.600236 -1.474328
-0.004799 -0.408695 -74.434078
0.85915 -30.235953 -109.600236 -1.474328
-0.004799 -0.274481 -49.055666
1.00000 -30.235953 -109.600236 -1.474328
-0.004799 -1.069149 -32.618183
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2023

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.097105 21.258918 0.434625
0.004565 0.495447 51.833070
0.57746 0.097105 21.258918 0.434625
0.004565 0.313350 44.885330
0.71831 0.097105 21.258918 0.434625
0.004565 0.133571 46.257235
0.85915 0.097105 21.258918 0.434625
0.004565 0.115585 62.954497
1.00000 0.097105 21.258918 0.434625
0.004565 0.334025 83.711795

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -37.491162 -71.065203 -0.526956
-0.004193 -0.558502 -50.097499
0.57746 -37.491162 -71.065203 -0.526956
-0.004193 -0.341841 -21.335417
0.71831 -37.491162 -71.065203 -0.526956
-0.004193 -0.125180 -7.087123
0.85915 -37.491162 -71.065203 -0.526956
-0.004193 -0.066294 -1.203670
1.00000 -37.491162 -71.065203 -0.526956
-0.004193 -0.246621 -0.729622

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 11.584158 61.884831 0.877859
0.004973 0.991592 115.163812
0.57746 11.584158 61.884831 0.877859
0.004973 0.622535 90.433678
0.71831 11.584158 61.884831 0.877859
0.004973 0.257403 74.568962
0.85915 11.584158 61.884831 0.877859
0.004973 0.140080 74.866457
1.00000 11.584158 61.884831 0.877859
0.004973 0.456309 80.946343

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -32.265122 -68.823420 -0.755446
-0.004002 -0.817521 -55.582146
0.57746 -32.265122 -68.823420 -0.755446
-0.004002 -0.505116 -28.245327
0.71831 -32.265122 -68.823420 -0.755446
-0.004002 -0.193819 -15.098100
0.85915 -32.265122 -68.823420 -0.755446
-0.004002 -0.126381 -8.347538
1.00000 -32.265122 -68.823420 -0.755446
-0.004002 -0.491242 -11.406267

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 19.680832 88.158266 1.581174
0.003638 1.778711 168.376312
0.57746 19.680832 88.158266 1.581174
0.003638 1.114796 132.386723
0.71831 19.680832 88.158266 1.581174
0.003638 0.453979 102.663229
0.85915 19.680832 88.158266 1.581174
0.003638 0.206232 84.388590
1.00000 19.680832 88.158266 1.581174
0.003638 0.762563 72.031116

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -39.702731 -88.087024 -1.326252
-0.003422 -1.466312 -111.283566
0.57746 -39.702731 -88.087024 -1.326252
-0.003422 -0.913094 -75.600210
0.71831 -39.702731 -88.087024 -1.326252
-0.003422 -0.360083 -49.386577
0.85915 -39.702731 -88.087024 -1.326252
-0.003422 -0.218925 -28.042072
1.00000 -39.702731 -88.087024 -1.326252
-0.003422 -0.879346 -16.623571
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2024

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 20.915206 95.702525 1.632035
0.003493 1.838146 179.978845
0.57746 20.915206 95.702525 1.632035
0.003493 1.153137 141.277992
0.71831 20.915206 95.702525 1.632035
0.003493 0.470762 107.838183
0.85915 20.915206 95.702525 1.632035
0.003493 0.205878 84.154903
1.00000 20.915206 95.702525 1.632035
0.003493 0.775821 65.651825

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -38.942559 -75.416584 -1.358967
-0.002985 -1.507253 -99.677899
0.57746 -38.942559 -75.416584 -1.358967
-0.002985 -0.939876 -70.320397
0.71831 -38.942559 -75.416584 -1.358967
-0.002985 -0.372752 -48.969580
0.85915 -38.942559 -75.416584 -1.358967
-0.002985 -0.220992 -31.651011
1.00000 -38.942559 -75.416584 -1.358967
-0.002985 -0.903575 -22.775743

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 2.863354 27.632667 0.444612
0.000652 0.508313 56.670216
0.57746 2.863354 27.632667 0.444612
0.000652 0.321790 45.286428
0.71831 2.863354 27.632667 0.444612
0.000652 0.135275 34.030076
0.85915 2.863354 27.632667 0.444612
0.000652 0.057881 22.986456
1.00000 2.863354 27.632667 0.444612
0.000652 0.233414 12.592759

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -14.125158 -4.027226 -0.418968
-0.000218 -0.469489 -14.957607
0.57746 -14.125158 -4.027226 -0.418968
-0.000218 -0.293800 -13.731806
0.71831 -14.125158 -4.027226 -0.418968
-0.000218 -0.118112 -12.643512
0.85915 -14.125158 -4.027226 -0.418968
-0.000218 -0.050377 -11.826065
1.00000 -14.125158 -4.027226 -0.418968
-0.000218 -0.237058 -11.621708

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 23.615743 66.272367 0.891946
0.001329 1.004904 114.492764
0.57746 23.615743 66.272367 0.891946
0.001329 0.630963 87.446872
0.71831 23.615743 66.272367 0.891946
0.001329 0.257491 61.519629
0.85915 23.615743 66.272367 0.891946
0.001329 0.093196 37.269317
1.00000 23.615743 66.272367 0.891946
0.001329 0.376453 16.656775

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -16.777341 -6.688753 -0.676550
-0.000360 -0.758721 -22.608813
0.57746 -16.777341 -6.688753 -0.676550
-0.000360 -0.475183 -21.256766
0.71831 -16.777341 -6.688753 -0.676550
-0.000360 -0.191899 -21.270541
0.85915 -16.777341 -6.688753 -0.676550
-0.000360 -0.118933 -23.001165
1.00000 -16.777341 -6.688753 -0.676550
-0.000360 -0.490205 -30.128765
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2025

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 13.648473 78.992142 1.108081
0.001488 1.257845 145.712257
0.57746 13.648473 78.992142 1.108081
0.001488 0.792779 113.394691
0.71831 13.648473 78.992142 1.108081
0.001488 0.328619 83.008879
0.85915 13.648473 78.992142 1.108081
0.001488 0.131092 55.797988
1.00000 13.648473 78.992142 1.108081
0.001488 0.511926 34.829338

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -28.144464 -26.764479 -0.910035
-0.000214 -1.013002 -44.011109
0.57746 -28.144464 -26.764479 -0.910035
-0.000214 -0.631714 -34.240185
0.71831 -28.144464 -26.764479 -0.910035
-0.000214 -0.249790 -25.241465
0.85915 -28.144464 -26.764479 -0.910035
-0.000214 -0.134819 -18.664593
1.00000 -28.144464 -26.764479 -0.910035
-0.000214 -0.597462 -22.532985

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 14.366173 96.074382 1.452827
0.003717 1.643210 189.558023
0.57746 14.366173 96.074382 1.452827
0.003717 1.033662 150.400725
0.71831 14.366173 96.074382 1.452827
0.003717 0.426013 117.160496
0.85915 14.366173 96.074382 1.452827
0.003717 0.202508 94.270950
1.00000 14.366173 96.074382 1.452827
0.003717 0.743401 77.219243

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -47.846412 -65.123353 -1.291467
-0.002921 -1.426316 -79.395356
0.57746 -47.846412 -65.123353 -1.291467
-0.002921 -0.887344 -53.757253
0.71831 -47.846412 -65.123353 -1.291467
-0.002921 -0.348528 -36.844526
0.85915 -47.846412 -65.123353 -1.291467
-0.002921 -0.191735 -24.672986
1.00000 -47.846412 -65.123353 -1.291467
-0.002921 -0.798440 -21.832746

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 25.662586 79.321736 1.064840
0.006286 1.203010 155.838067
0.57746 25.662586 79.321736 1.064840
0.006286 0.756539 123.106825
0.71831 25.662586 79.321736 1.064840
0.006286 0.310126 97.488862
0.85915 25.662586 79.321736 1.064840
0.006286 0.165241 87.509556
1.00000 25.662586 79.321736 1.064840
0.006286 0.584253 91.776542

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -37.500183 -126.096166 -1.008628
-0.007523 -1.123232 -133.383652
0.57746 -37.500183 -126.096166 -1.008628
-0.007523 -0.702356 -87.819141
0.71831 -37.500183 -126.096166 -1.008628
-0.007523 -0.281705 -56.821025
0.85915 -37.500183 -126.096166 -1.008628
-0.007523 -0.152434 -35.292812
1.00000 -37.500183 -126.096166 -1.008628
-0.007523 -0.994270 -40.916775
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2026

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 37.610248 96.074382 1.902297
0.006473 2.129997 189.558023
0.57746 37.610248 96.074382 1.902297
0.006473 1.331979 150.400725
0.71831 37.610248 96.074382 1.902297
0.006473 0.536716 117.160496
0.85915 37.610248 96.074382 1.902297
0.006473 0.231664 94.270950
1.00000 37.610248 96.074382 1.902297
0.006473 0.859316 95.516237

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -47.846412 -145.446059 -1.496002
-0.007528 -1.657253 -180.764292
0.57746 -47.846412 -145.446059 -1.496002
-0.007528 -1.034315 -120.925016
0.71831 -47.846412 -145.446059 -1.496002
-0.007528 -0.411983 -81.513624
0.85915 -47.846412 -145.446059 -1.496002
-0.007528 -0.274481 -51.022013
1.00000 -47.846412 -145.446059 -1.496002
-0.007528 -1.069149 -32.618183

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 37.610248 96.074382 1.902297
0.006473 2.129997 189.558023
0.57746 37.610248 96.074382 1.902297
0.006473 1.331979 150.400725
0.71831 37.610248 96.074382 1.902297
0.006473 0.536716 117.160496
0.85915 37.610248 96.074382 1.902297
0.006473 0.231664 94.270950
1.00000 37.610248 96.074382 1.902297
0.006473 0.859316 95.516237

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -47.846412 -145.446059 -1.496002
-0.007528 -1.657253 -180.764292
0.57746 -47.846412 -145.446059 -1.496002
-0.007528 -1.034315 -120.925016
0.71831 -47.846412 -145.446059 -1.496002
-0.007528 -0.411983 -81.513624
0.85915 -47.846412 -145.446059 -1.496002
-0.007528 -0.274481 -51.022013
1.00000 -47.846412 -145.446059 -1.496002
-0.007528 -1.069149 -32.618183

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 37.610248 96.074382 1.902297
0.006473 2.129997 189.558023
0.57746 37.610248 96.074382 1.902297
0.006473 1.331979 150.400725
0.71831 37.610248 96.074382 1.902297
0.006473 0.536716 117.160496
0.85915 37.610248 96.074382 1.902297
0.006473 0.231664 94.270950
1.00000 37.610248 96.074382 1.902297
0.006473 0.859316 95.516237

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -47.846412 -145.446059 -1.496002
-0.007528 -1.657253 -180.764292
0.57746 -47.846412 -145.446059 -1.496002
-0.007528 -1.034315 -120.925016
0.71831 -47.846412 -145.446059 -1.496002
-0.007528 -0.411983 -81.513624
0.85915 -47.846412 -145.446059 -1.496002
-0.007528 -0.274481 -51.022013
1.00000 -47.846412 -145.446059 -1.496002
-0.007528 -1.069149 -32.618183
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2027

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 177 ========== LENGTH = 2.977518

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.931682 12.731025 0.605789
0.000425 0.341672 1.721663
0.14085 15.931682 12.731025 0.605789
0.000425 0.087588 11.184445
0.28170 15.931682 12.731025 0.605789
0.000425 0.179021 29.696899
0.42255 15.931682 12.731025 0.605789
0.000425 0.458653 48.375464
0.56339 15.931682 12.731025 0.605789
0.000425 0.738294 67.086333

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.472831 -44.695262 -0.666843
-0.001339 -0.380475 -15.848781
0.14085 -2.472831 -44.695262 -0.666843
-0.001339 -0.101008 -20.798601
0.28170 -2.472831 -44.695262 -0.666843
-0.001339 -0.166492 -25.826212
0.42255 -2.472831 -44.695262 -0.666843
-0.001339 -0.420520 -30.924330
0.56339 -2.472831 -44.695262 -0.666843
-0.001339 -0.674567 -36.227439

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.344460 104.803274 0.968100
0.006394 0.579193 92.141231
0.14085 15.344460 104.803274 0.968100
0.006394 0.174646 76.617315
0.28170 15.344460 104.803274 0.968100
0.006394 0.262950 69.815147
0.42255 15.344460 104.803274 0.968100
0.006394 0.667411 88.471562
0.56339 15.344460 104.803274 0.968100
0.006394 1.072072 114.463416

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -31.724883 -64.863898 -0.964923
-0.007446 -0.546737 -11.504609
0.14085 -31.724883 -64.863898 -0.964923
-0.007446 -0.144917 -19.862235
0.28170 -31.724883 -64.863898 -0.964923
-0.007446 -0.254613 -32.047557
0.42255 -31.724883 -64.863898 -0.964923
-0.007446 -0.646902 -57.776454
0.56339 -31.724883 -64.863898 -0.964923
-0.007446 -1.045985 -101.287267

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.684745 102.372011 1.168610
0.004692 0.682677 74.635605
0.14085 14.684745 102.372011 1.168610
0.004692 0.193437 71.083959
0.28170 14.684745 102.372011 1.168610
0.004692 0.278125 77.930646
0.42255 14.684745 102.372011 1.168610
0.004692 0.699272 102.490812
0.56339 14.684745 102.372011 1.168610
0.004692 1.120462 132.078917

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.039426 -73.159106 -1.004383
-0.005384 -0.564534 -12.491743
0.14085 -25.039426 -73.159106 -1.004383
-0.005384 -0.145341 -29.736671
0.28170 -25.039426 -73.159106 -1.004383
-0.005384 -0.312448 -51.035147
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2028

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42255 -25.039426 -73.159106 -1.004383
-0.005384 -0.793238 -81.546184
0.56339 -25.039426 -73.159106 -1.004383
-0.005384 -1.278632 -124.143840

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 25.673515 102.997530 1.195489
0.004510 0.693195 64.858635
0.14085 25.673515 102.997530 1.195489
0.004510 0.192583 59.486711
0.28170 25.673515 102.997530 1.195489
0.004510 0.283385 65.971595
0.42255 25.673515 102.997530 1.195489
0.004510 0.713099 87.073406
0.56339 25.673515 102.997530 1.195489
0.004510 1.142827 112.348150

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -23.707663 -62.437024 -1.024749
-0.004596 -0.576289 -13.077154
0.14085 -23.707663 -62.437024 -1.024749
-0.004596 -0.148917 -42.778018
0.28170 -23.707663 -62.437024 -1.024749
-0.004596 -0.322045 -64.409662
0.42255 -23.707663 -62.437024 -1.024749
-0.004596 -0.815668 -93.838775
0.56339 -23.707663 -62.437024 -1.024749
-0.004596 -1.313114 -135.477064

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.135408 74.069231 0.403068
0.004934 0.257313 89.075469
0.14085 0.135408 74.069231 0.403068
0.004934 0.089585 74.029306
0.28170 0.135408 74.069231 0.403068
0.004934 0.076993 59.237171
0.42255 0.135408 74.069231 0.403068
0.004934 0.187261 65.147548
0.56339 0.135408 74.069231 0.403068
0.004934 0.297687 77.768108

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -32.038229 -32.079881 -0.263284
-0.004874 -0.144279 -0.812741
0.14085 -32.038229 -32.079881 -0.263284
-0.004874 -0.036189 -3.707057
0.28170 -32.038229 -32.079881 -0.263284
-0.004874 -0.099294 -8.399912
0.42255 -32.038229 -32.079881 -0.263284
-0.004874 -0.256791 -24.342075
0.56339 -32.038229 -32.079881 -0.263284
-0.004874 -0.420015 -55.152109

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.643495 97.464882 0.714319
0.005123 0.429261 84.823419
0.14085 11.643495 97.464882 0.714319
0.005123 0.130755 68.575248
0.28170 11.643495 97.464882 0.714319
0.005123 0.124442 56.383499
0.42255 11.643495 97.464882 0.714319
0.005123 0.303466 63.929327
0.56339 11.643495 97.464882 0.714319
0.005123 0.482485 77.098083

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -27.393715 -34.247219 -0.426940
-0.004536 -0.233760 -12.264122
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2029

F R A M E E L E M E N T I N T E R N A
```

L FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.14085	-27.393715	-34.247219	-0.426940
-0.004536	-0.057789	-26.338683	
0.28170	-27.393715	-34.247219	-0.426940
-0.004536	-0.187070	-41.783164	
0.42255	-27.393715	-34.247219	-0.426940
-0.004536	-0.475964	-67.659648	
0.56339	-27.393715	-34.247219	-0.426940
-0.004536	-0.770131	-107.675682	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.046509	114.120012	1.043706
0.004057	0.607688	76.982499	
0.14085	16.046509	114.120012	1.043706
0.004057	0.170732	63.833096	
0.28170	16.046509	114.120012	1.043706
0.004057	0.237298	67.556842	
0.42255	16.046509	114.120012	1.043706
0.004057	0.593346	85.988533	
0.56339	16.046509	114.120012	1.043706
0.004057	0.949357	108.674334	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-36.442528	-56.490187	-0.848902
-0.004269	-0.474800	-16.312661	
0.14085	-36.442528	-56.490187	-0.848902
-0.004269	-0.121143	-27.404298	
0.28170	-36.442528	-56.490187	-0.848902
-0.004269	-0.279975	-56.966489	
0.42255	-36.442528	-56.490187	-0.848902
-0.004269	-0.710111	-93.984071	
0.56339	-36.442528	-56.490187	-0.848902
-0.004269	-1.143980	-141.071492	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.473671	109.641068	1.086334
0.004021	0.629348	68.787806	
0.14085	17.473671	109.641068	1.086334
0.004021	0.174394	53.212977	
0.28170	17.473671	109.641068	1.086334
0.004021	0.252993	56.746942	
0.42255	17.473671	109.641068	1.086334
0.004021	0.634231	72.682451	
0.56339	17.473671	109.641068	1.086334
0.004021	1.015400	92.181239	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.233760	-48.495904	-0.908946
-0.003794	-0.509446	-22.607136	
0.14085	-34.233760	-48.495904	-0.908946
-0.003794	-0.129975	-32.763358	
0.28170	-34.233760	-48.495904	-0.908946
-0.003794	-0.292079	-58.429049	
0.42255	-34.233760	-48.495904	-0.908946
-0.003794	-0.741314	-91.082037	
0.56339	-34.233760	-48.495904	-0.908946
-0.003794	-1.193693	-136.504277	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.456039	19.952154	0.327485
0.000989	0.187567	9.481377	
0.14085	2.456039	19.952154	0.327485
0.000989	0.050190	4.648066	
0.28170	2.456039	19.952154	0.327485
0.000989	0.087810	3.400971	
0.42255	2.456039	19.952154	0.327485
0.000989	0.222359	3.203039	
0.56339	2.456039	19.952154	0.327485
0.000989	0.356899	3.557874	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2030
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.462534	-2.660938	-0.320807
-0.000381	-0.181259	-11.335730	
0.14085	-7.462534	-2.660938	-0.320807
-0.000381	-0.046902	-11.428043	
0.28170	-7.462534	-2.660938	-0.320807
-0.000381	-0.061793	-11.611317	
0.42255	-7.462534	-2.660938	-0.320807
-0.000381	-0.224467	-16.445659	
0.56339	-7.462534	-2.660938	-0.320807
-0.000381	-0.361800	-24.781628	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.526451	46.087817	0.600436
0.001892	0.340923	14.212526	
0.14085	22.526451	46.087817	0.600436
0.001892	0.089110	4.371384	
0.28170	22.526451	46.087817	0.600436
0.001892	0.142322	2.520193	
0.42255	22.526451	46.087817	0.600436
0.001892	0.359549	3.890685	
0.56339	22.526451	46.087817	0.600436
0.001892	0.576739	5.531852	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.510499	-4.446460	-0.517887
-0.000604	-0.292001	-30.007465	
0.14085	-10.510499	-4.446460	-0.517887
-0.000604	-0.078169	-36.360853	
0.28170	-10.510499	-4.446460	-0.517887
-0.000604	-0.163581	-43.515569	
0.42255	-10.510499	-4.446460	-0.517887
-0.000604	-0.414917	-56.108817	
0.56339	-10.510499	-4.446460	-0.517887
-0.000604	-0.666487	-74.111865	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.205961	59.603838	0.855938
0.001778	0.488525	32.622441	
0.14085	11.205961	59.603838	0.855938
0.001778	0.129645	32.216872	
0.28170	11.205961	59.603838	0.855938
0.001778	0.175598	41.204084	
0.42255	11.205961	59.603838	0.855938
0.001778	0.435605	53.545754	
0.56339	11.205961	59.603838	0.855938
0.001778	0.695162	66.256547	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.186044	-31.102812	-0.619382
-0.000678	-0.343906	-22.323678	
0.14085	-17.186044	-31.102812	-0.619382
-0.000678	-0.085086	-35.677230	
0.28170	-17.186044	-31.102812	-0.619382
-0.000678	-0.230933	-49.681859	
0.42255	-17.186044	-31.102812	-0.619382
-0.000678	-0.589116	-68.806248	
0.56339	-17.186044	-31.102812	-0.619382
-0.000678	-0.947683	-93.241030	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.681114	114.966497	1.026378
0.004634	0.599565	81.013698	
0.14085	11.681114	114.966497	1.026378
0.004634	0.169787	56.886094	
0.28170	11.681114	114.966497	1.026378
0.004634	0.234337	52.275914	
0.42255	11.681114	114.966497	1.026378
0.004634	0.585602	63.737689	
0.56339	11.681114	114.966497	1.026378
0.004634	0.936820	79.420774	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2031
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-39.658727	-39.669305	-0.837517
-0.004081	-0.468163	-21.471364	
0.14085	-39.658727	-39.669305	-0.837517
-0.004081	-0.118956	-29.844988	
0.28170	-39.658727	-39.669305	-0.837517
-0.004081	-0.273425	-51.760089	
0.42255	-39.658727	-39.669305	-0.837517
-0.004081	-0.696387	-85.901566	
0.56339	-39.658727	-39.669305	-0.837517
-0.004081	-1.123041	-133.398413	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	33.461557	12.438940	1.081203
0.000408	0.592492	1.941963	
0.14085	33.461557	12.438940	1.081203
0.000408	0.139497	11.989166	
0.28170	33.461557	12.438940	1.081203
0.000408	0.266481	37.387921	
0.42255	33.461557	12.438940	1.081203
0.000408	0.691310	64.484777	
0.56339	33.461557	12.438940	1.081203
0.000408	1.116053	91.828019	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.130608	-65.768609	-1.012278
-0.001414	-0.582181	-27.853638	
0.14085	-3.130608	-65.768609	-1.012278
-0.001414	-0.157209	-18.613308	
0.28170	-3.130608	-65.768609	-1.012278
-0.001414	-0.313775	-21.760175	
0.42255	-3.130608	-65.768609	-1.012278
-0.001414	-0.766948	-26.536099	
0.56339	-3.130608	-65.768609	-1.012278
-0.001414	-1.220237	-31.530971	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.206158	100.421199	1.713657
0.006429	0.991392	95.581004	
0.14085	30.206158	100.421199	1.713657
0.006429	0.275345	78.857449	
0.28170	30.206158	100.421199	1.713657
0.006429	0.390715	79.590565	
0.42255	30.206158	100.421199	1.713657
0.006429	0.992616	104.623650	
0.56339	30.206158	100.421199	1.713657
0.006429	1.593658	138.818322	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-38.635141	-85.128476	-1.434398
-0.007920	-0.815195	-23.377258	
0.14085	-38.635141	-85.128476	-1.434398
-0.007920	-0.226923	-17.292885	
0.28170	-38.635141	-85.128476	-1.434398
-0.007920	-0.470233	-26.659619	
0.42255	-38.635141	-85.128476	-1.434398
-0.007920	-1.175483	-52.047859	
0.56339	-38.635141	-85.128476	-1.434398
-0.007920	-1.886205	-92.877318	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.088362	108.733278	1.941307
0.004864	1.108385	80.559210	
0.14085	29.088362	108.733278	1.941307
0.004864	0.296442	72.266601	
0.28170	29.088362	108.733278	1.941307
0.004864	0.413814	81.094427	
0.42255	29.088362	108.733278	1.941307
0.004864	1.047117	109.023265	
0.56339	29.088362	108.733278	1.941307
0.004864	1.678849	144.246603	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2032
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-33.967927	-86.963616	-1.507474
-0.005918	-0.850432	-22.866459	
0.14085	-33.967927	-86.963616	-1.507474
-0.005918	-0.227591	-28.485441	
0.28170	-33.967927	-86.963616	-1.507474
-0.005918	-0.534338	-48.330784	
0.42255	-33.967927	-86.963616	-1.507474
-0.005918	-1.338953	-81.326233	
0.56339	-33.967927	-86.963616	-1.507474
-0.005918	-2.147689	-125.842345	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	37.599426	119.307035	1.959783
0.004648	1.114181	70.121259	
0.14085	37.599426	119.307035	1.959783
0.004648	0.294306	60.389603	
0.28170	37.599426	119.307035	1.959783
0.004648	0.414316	68.570122	
0.42255	37.599426	119.307035	1.959783
0.004648	1.051812	92.582445	
0.56339	37.599426	119.307035	1.959783
0.004648	1.688374	122.646624	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-32.149105	-74.151174	-1.518742
-0.005019	-0.859636	-32.589415	
0.14085	-32.149105	-74.151174	-1.518742
-0.005019	-0.231288	-45.840991	
0.28170	-32.149105	-74.151174	-1.518742
-0.005019	-0.541450	-73.511670	
0.42255	-32.149105	-74.151174	-1.518742
-0.005019	-1.354940	-112.060215	
0.56339	-32.149105	-74.151174	-1.518742
-0.005019	-2.172536	-160.259067	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.096151	66.344103	0.614567
0.004177	0.381492	83.761848	
0.14085	0.096151	66.344103	0.614567
0.004177	0.126107	70.25929	
0.28170	0.096151	66.344103	0.614567
0.004177	0.109118	58.002301	
0.42255	0.096151	66.344103	0.614567
0.004177	0.259550	62.135793	
0.56339	0.096151	66.344103	0.614567
0.004177	0.410456	72.698341	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-39.707621	-29.406611	-0.360003
-0.004394	-0.195313	-0.720836	
0.14085	-39.707621	-29.406611	-0.360003
-0.004394	-0.054280	-3.488290	
0.28170	-39.707621	-29.406611	-0.360003
-0.004394	-0.151703	-8.121075	
0.42255	-39.707621	-29.406611	-0.360003
-0.004394	-0.400042	-23.449612	
0.56339	-39.707621	-29.406611	-0.360003
-0.004394	-0.652108	-49.631584	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.617782	105.069362	1.038201
0.004488	0.611761	81.011843	
0.14085	11.617782	105.069362	1.038201
0.004488	0.178630	64.428891	
0.28170	11.617782	105.069362	1.038201
0.004488	0.179540	50.989470	
0.42255	11.617782	105.069362	1.038201
0.004488	0.440773	55.103801	
0.56339	11.617782	105.069362	1.038201
0.004488	0.701416	66.058472	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2033
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.432049	-28.957256	-0.622636
-0.004192	-0.343426	-11.397338	
0.14085	-34.432049	-28.957256	-0.622636
-0.004192	-0.092654	-29.642222	
0.28170	-34.432049	-28.957256	-0.622636
-0.004192	-0.273056	-49.645560	
0.42255	-34.432049	-28.957256	-0.622636
-0.004192	-0.698816	-81.440276	
0.56339	-34.432049	-28.957256	-0.622636
-0.004192	-1.129877	-124.300483	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.692672	115.638722	1.717445
0.003353	0.981937	72.070398	
0.14085	19.692672	115.638722	1.717445
0.003353	0.263574	61.900366	
0.28170	19.692672	115.638722	1.717445
0.003353	0.351920	69.712257	
0.42255	19.692672	115.638722	1.717445
0.003353	0.880571	89.983683	
0.56339	19.692672	115.638722	1.717445
0.003353	1.408691	115.049148	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-41.122265	-62.229199	-1.259972
-0.003813	-0.705079	-16.596411	
0.14085	-41.122265	-62.229199	-1.259972
-0.003813	-0.183056	-29.792202	
0.28170	-41.122265	-62.229199	-1.259972
-0.003813	-0.467024	-61.285770	
0.42255	-41.122265	-62.229199	-1.259972
-0.003813	-1.130330	-101.429508	
0.56339	-41.122265	-62.229199	-1.259972
-0.003813	-1.898375	-148.799016	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.924844	118.839985	1.789573
0.003450	1.021192	65.693203	
0.14085	20.924844	118.839985	1.789573
0.003450	0.272474	51.591088	
0.28170	20.924844	118.839985	1.789573
0.003450	0.368200	58.668053	
0.42255	20.924844	118.839985	1.789573
0.003450	0.923789	76.333900	
0.56339	20.924844	118.839985	1.789573
0.003450	1.478925	97.989871	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-40.162354	-53.685325	-1.324438
-0.003390	-0.742826	-22.755604	
0.14085	-40.162354	-53.685325	-1.324438
-0.003390	-0.192780	-36.753399	
0.28170	-40.162354	-53.685325	-1.324438
-0.003390	-0.486182	-70.429508	
0.42255	-40.162354	-53.685325	-1.324438
-0.003390	-1.231273	-111.389624	
0.56339	-40.162354	-53.685325	-1.324438
-0.003390	-1.979348	-160.390550	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.874083	27.674173	0.560442
0.001010	0.322345	12.604021	
0.14085	2.874083	27.674173	0.560442
0.001010	0.089759	4.426596	
0.28170	2.874083	27.674173	0.560442
0.001010	0.118666	3.682913	
0.42255	2.874083	27.674173	0.560442
0.001010	0.298396	4.597013	
0.56339	2.874083	27.674173	0.560442
0.001010	0.478139	5.776295	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2034
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.165659	-3.976907	-0.428659
-0.000348	-0.241051	-11.625912	
0.14085	-14.165659	-3.976907	-0.428659
-0.000348	-0.061657	-12.312437	
0.28170	-14.165659	-3.976907	-0.428659
-0.000348	-0.147163	-19.037422	
0.42255	-14.165659	-3.976907	-0.428659
-0.000348	-0.382043	-28.934048	
0.56339	-14.165659	-3.976907	-0.428659
-0.000348	-0.617282	-40.271321	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.618012	67.807208	0.971470
0.001821	0.549996	16.679151	
0.14085	23.618012	67.807208	0.971470
0.001821	0.142269	3.960166	
0.28170	23.618012	67.807208	0.971470
0.001821	0.197310	3.196840	
0.42255	23.618012	67.807208	0.971470
0.001821	0.502842	4.781820	
0.56339	23.618012	67.807208	0.971470
0.001821	0.808746	6.970551	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.909449	-5.467435	-0.729628
-0.000499	-0.415476	-30.132391	
0.14085	-16.909449	-5.467435	-0.729628
-0.000499	-0.111904	-43.276461	
0.28170	-16.909449	-5.467435	-0.729628
-0.000499	-0.264652	-65.867587	
0.42255	-16.909449	-5.467435	-0.729628
-0.000499	-0.671145	-91.560106	
0.56339	-16.909449	-5.467435	-0.729628
-0.000499	-1.078394	-119.394880	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.657653	79.082464	1.298489
0.001482	0.737930	34.857097	
0.14085	13.657653	79.082464	1.298489
0.001482	0.194102	30.294436	
0.28170	13.657653	79.082464	1.298489
0.001482	0.244070	37.239419	
0.42255	13.657653	79.082464	1.298489
0.001482	0.608850	47.053143	
0.56339	13.657653	79.082464	1.298489
0.001482	0.973006	57.988261	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.226609	-27.110001	-0.869096
-0.000344	-0.483635	-22.533523	
0.14085	-28.226609	-27.110001	-0.869096
-0.000344	-0.120259	-40.598025	
0.28170	-28.226609	-27.110001	-0.869096
-0.000344	-0.348046	-67.064831	
0.42255	-28.226609	-27.110001	-0.869096
-0.000344	-0.891996	-97.064917	
0.56339	-28.226609	-27.110001	-0.869096
-0.000344	-1.437064	-129.615019	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.364082	121.175112	1.683549
0.003768	0.970363	77.267194	
0.14085	14.364082	121.175112	1.683549
0.003768	0.266389	55.650633	
0.28170	14.364082	121.175112	1.683549
0.003768	0.337449	54.509196	
0.42255	14.364082	121.175112	1.683549
0.003768	0.841755	66.383785	
0.56339	14.364082	121.175112	1.683549
0.003768	1.345495	82.826955	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2035
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-49.163936	-41.627599	-1.201706
-0.003377	-0.670655	-21.820510	
0.14085	-49.163936	-41.627599	-1.201706
-0.003377	-0.172956	-34.017739	
0.28170	-49.163936	-41.627599	-1.201706
-0.003377	-0.448871	-65.343302	
0.42255	-49.163936	-41.627599	-1.201706
-0.003377	-1.147130	-104.894998	
0.56339	-49.163936	-41.627599	-1.201706
-0.003377	-1.852464	-156.724141	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.673515	114.966497	1.195489
0.006394	0.693195	92.141231	
0.14085	25.673515	114.966497	1.195489
0.006394	0.193437	76.617315	
0.28170	25.673515	114.966497	1.195489
0.006394	0.283385	77.930646	
0.42255	25.673515	114.966497	1.195489
0.006394	0.713099	102.490812	
0.56339	25.673515	114.966497	1.195489
0.006394	1.142827	132.078917	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-39.658727	-73.159106	-1.024749
-0.007446	-0.576269	-30.007465	
0.14085	-39.658727	-73.159106	-1.024749
-0.007446	-0.148917	-42.778018	
0.28170	-39.658727	-73.159106	-1.024749
-0.007446	-0.322045	-64.409662	
0.42255	-39.658727	-73.159106	-1.024749
-0.007446	-0.815668	-93.984071	
0.56339	-39.658727	-73.159106	-1.024749
-0.007446	-1.313114	-141.071492	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	37.599426	121.175112	1.959783
0.006429	1.114181	95.581004	
0.14085	37.599426	121.175112	1.959783
0.006429	0.294442	78.857449	
0.28170	37.599426	121.175112	1.959783
0.006429	0.414316	81.094427	
0.42255	37.599426	121.175112	1.959783
0.006429	1.051812	109.023265	
0.56339	37.599426	121.175112	1.959783
0.006429	1.688374	144.246603	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-49.163936	-86.963616	-1.518742
-0.007920	-0.859636	-32.589415	
0.14085	-49.163936	-86.963616	-1.518742
-0.007920	-0.231288	-45.840991	
0.28170	-49.163936	-86.963616	-1.518742
-0.007920	-0.541450	-73.511670	
0.42255	-49.163936	-86.963616	-1.518742
-0.007920	-1.354940	-112.060215	
0.56339	-49.163936	-86.963616	-1.518742
-0.007920	-2.172536	-160.390550	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	37.599426	121.175112	1.959783

```
 0.006429    1.114181   95.581004
0.14085   37.599426  121.175112     1.959783
 0.006429    0.296442   78.857449
0.28170   37.599426  121.175112     1.959783
 0.006429    0.414316   81.094427
0.42255   37.599426  121.175112     1.959783
 0.006429    1.051812  109.023265
0.56339   37.599426  121.175112     1.959783
 0.006429    1.688374  144.246603
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                                2036

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

COMB      CAR ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.00000  -49.163936  -86.963616  -1.518742
-0.007920   -0.859636  -32.589415
0.14085  -49.163936  -86.963616  -1.518742
-0.007920   -0.231288  -45.840991
0.28170  -49.163936  -86.963616  -1.518742
-0.007920   -0.541450  -73.511670
0.42255  -49.163936  -86.963616  -1.518742
-0.007920   -1.354940 -112.060215
0.56339  -49.163936  -86.963616  -1.518742
-0.007920   -2.172536 -160.390550

COMB   DESIGN ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.00000   37.599426  121.175112     1.959783
 0.006429    1.114181   95.581004
0.14085   37.599426  121.175112     1.959783
 0.006429    0.296442   78.857449
0.28170   37.599426  121.175112     1.959783
 0.006429    0.414316   81.094427
0.42255   37.599426  121.175112     1.959783
 0.006429    1.051812  109.023265
0.56339   37.599426  121.175112     1.959783
 0.006429    1.688374  144.246603

COMB   DESIGN ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.00000  -49.163936  -86.963616  -1.518742
-0.007920   -0.859636  -32.589415
0.14085  -49.163936  -86.963616  -1.518742
-0.007920   -0.231288  -45.840991
0.28170  -49.163936  -86.963616  -1.518742
-0.007920   -0.541450  -73.511670
0.42255  -49.163936  -86.963616  -1.518742
-0.007920   -1.354940 -112.060215
0.56339  -49.163936  -86.963616  -1.518742
-0.007920   -2.172536 -160.390550

ELEM      178 ================== LENGTH
=     2.977195

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   22.045378   2.630316   0.661453
 0.000943    4.901880
0.57749   22.045378   2.630316   0.661453
 0.000943    0.437428   3.806236
0.71833   22.045378   2.630316   0.661453
 0.000943    0.160081   2.718936
0.85916   22.045378   2.630316   0.661453
 0.000943    0.131660   1.668082
1.00000   22.045378   2.630316   0.661453
 0.000943    0.443306   0.815605

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665   -3.608409  -41.377401  -0.743229
-0.000920   -0.803234  -77.403115
0.57749   -3.608409  -41.377401  -0.743229
-0.000920   -0.491599  -60.249979
0.71833   -3.608409  -41.377401  -0.743229
-0.000920   -0.179873  -43.124272
0.85916   -3.608409  -41.377401  -0.743229
-0.000920   -0.117274  -26.090833
1.00000   -3.608409  -41.377401  -0.743229
-0.000920   -0.394629   -9.307248

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   21.780457   19.403670   0.956964
 0.006556    1.034069   33.290353
0.57749   21.780457   19.403670   0.956964
 0.006556    0.632816   27.071335
0.71833   21.780457   19.403670   0.956964
 0.006556    0.231549   24.695918
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                                2037

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

REL DIST          P          V2          V3
         T          M2         M3
0.85916   21.780457   19.403670   0.956964
 0.006556    0.205439   47.088135
1.00000   21.780457   19.403670   0.956964
 0.006556    0.677553   72.035353

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -38.501879 -112.259135  -1.136619
-0.005237   -1.228772 -124.499764
0.57749  -38.501879 -112.259135  -1.136619
-0.005237   -0.752188  -79.945391
0.71833  -38.501879 -112.259135  -1.136619
-0.005237   -0.275526  -47.032114
0.85916  -38.501879 -112.259135  -1.136619
-0.005237   -0.191164  -26.901192
1.00000  -38.501879 -112.259135  -1.136619
-0.005237   -0.587335  -13.492021

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   19.525844   36.625783   1.127635
 0.005032    1.218664   65.432496
0.57749   19.525844   36.625783   1.127635
 0.005032    0.745848   51.346749
0.71833   19.525844   36.625783   1.127635
 0.005032    0.273000   39.836372
0.85916   19.525844   36.625783   1.127635
 0.005032    0.226857   45.111255
1.00000   19.525844   36.625783   1.127635
 0.005032    0.755089   51.009608

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -31.025120  -81.668507  -1.266916
-0.004122   -1.369777  -98.035679
0.57749  -31.025120  -81.668507  -1.266916
-0.004122   -0.838559  -55.479432
0.71833  -31.025120  -81.668507  -1.266916
-0.004122   -0.307264  -40.968224
0.85916  -31.025120  -81.668507  -1.266916
-0.004122   -0.214350  -24.314963
1.00000  -31.025120  -81.668507  -1.266916
-0.004122   -0.683759  -11.124618

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   35.608059   50.870501   1.136864
 0.004485    1.229276   83.962816
0.57749   35.608059   50.870501   1.136864
 0.004485    0.752593   64.035115
0.71833   35.608059   50.870501   1.136864
 0.004485    0.275873   46.939629
0.85916   35.608059   50.870501   1.136864
 0.004485    0.221686   44.706762
1.00000   35.608059   50.870501   1.136864
 0.004485    0.738291   43.830903

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -29.981109  -69.144640  -1.237907
-0.003743   -1.337915  -83.940840
0.57749  -29.981109  -69.144640  -1.237907
-0.003743   -0.818857  -56.349243
0.71833  -29.981109  -69.144640  -1.237907
-0.003743   -0.299732  -35.433376
0.85916  -29.981109  -69.144640  -1.237907
-0.003743   -0.212843  -21.279858
1.00000  -29.981109  -69.144640  -1.237907
-0.003743   -0.686745  -17.738914

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   0.198364   21.604689   0.308645
 0.004794   0.333480   40.037251
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                                2038

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

REL DIST          P          V2          V3
         T          M2         M3
0.57749   0.198364   21.604689   0.308645
 0.004794   0.204066   32.577824
0.71833   0.198364   21.604689   0.308645
 0.004794   0.074648   23.327885
0.85916   0.198364   21.604689   0.308645
 0.004794   0.072579   44.805561
1.00000   0.198364   21.604689   0.308645
 0.004794   0.232446   64.594520

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -39.908060  -63.793390  -0.390282
-0.003703   -0.422133  -43.188010
0.57749  -39.908060  -63.793390  -0.390282
-0.003703   -0.259486  -18.332401
0.71833  -39.908060  -63.793390  -0.390282
-0.003703   -0.094836   -4.262301
0.85916  -39.908060  -63.793390  -0.390282
-0.003703   -0.072732   -0.089744
1.00000  -39.908060  -63.793390  -0.390282
-0.003703   -0.197891   -3.785024

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   15.823674   52.721059   0.589939
 0.004815    0.637805   85.868505
0.57749   15.823674   52.721059   0.589939
 0.004815    0.390444   65.609884
0.71833   15.823674   52.721059   0.589939
 0.004815    0.143064   49.188874
0.85916   15.823674   52.721059   0.589939
 0.004815    0.113532   53.082788
1.00000   15.823674   52.721059   0.589939
 0.004815    0.371275   58.371664

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -33.626885  -48.628199  -0.622871
-0.003810   -0.679395  -29.042323
0.57749  -33.626885  -48.628199  -0.622871
-0.003810   -0.412218  -10.371031
0.71833  -33.626885  -48.628199  -0.622871
-0.003810   -0.151017   -0.905044
0.85916  -33.626885  -48.628199  -0.622871
-0.003810   -0.112033   -8.561472
1.00000  -33.626885  -48.628199  -0.622871
-0.003810   -0.364402  -10.281775

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   22.747162   61.432816   0.984007
 0.004082    1.063664  109.663780
0.57749   22.747162   61.432816   0.984007
 0.004082    0.651071   85.325519
0.71833   22.747162   61.432816   0.984007
 0.004082    0.238452   63.878675
0.85916   22.747162   61.432816   0.984007
 0.004082    0.195172   57.029208
1.00000   22.747162   61.432816   0.984007
 0.004082    0.650332   51.318705

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -46.212791  -57.286876  -1.091124
-0.003364   -1.179690  -61.095063
0.57749  -46.212791  -57.286876  -1.091124
-0.003364   -0.722177  -38.377709
0.71833  -46.212791  -57.286876  -1.091124
-0.003364   -0.264609  -22.217187
0.85916  -46.212791  -57.286876  -1.091124
-0.003364   -0.185877  -12.814990
1.00000  -46.212791  -57.286876  -1.091124
-0.003364   -0.595743  -11.888121
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                                2039

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   24.060099   62.515682   1.005851
 0.003728    1.088126  112.786401
0.57749   24.060099   62.515682   1.005851
 0.003728    0.666374   87.730256
0.71833   24.060099   62.515682   1.005851
 0.003728    0.244539   64.988022
0.85916   24.060099   62.515682   1.005851
 0.003728    0.197512   54.412781
1.00000   24.060099   62.515682   1.005851
 0.003728    0.658842   45.010588

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -44.059963  -49.302398  -1.104854
-0.003133   -1.194211  -53.791153
0.57749  -44.059963  -49.302398  -1.104854
-0.003133   -0.730942  -34.209799
0.71833  -44.059963  -49.302398  -1.104854
-0.003133   -0.267612  -20.092174
0.85916  -44.059963  -49.302398  -1.104854
-0.003133   -0.186996  -11.564666
1.00000  -44.059963  -49.302398  -1.104854
-0.003133   -0.606473  -12.228070

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   3.508313   15.667011   0.273592
 0.000504    0.297198   29.540020
0.57749   3.508313   15.667011   0.273592
 0.000504    0.182481   22.999404
0.71833   3.508313   15.667011   0.273592
 0.000504    0.067679   16.473044
0.85916   3.508313   15.667011   0.273592
 0.000504    0.055029   10.210838
1.00000   3.508313   15.667011   0.273592
 0.000504    0.184747    4.262096

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -10.563197   -2.782775   -0.309302
-0.000506   -0.334014    4.812598
0.57749  -10.563197   -2.782775   -0.309302
-0.000506   -0.204323   -3.712701
0.71833  -10.563197   -2.782775   -0.309302
-0.000506   -0.074619   -2.625716
0.85916  -10.563197   -2.782775   -0.309302
-0.000506   -0.046936   -1.593788
1.00000  -10.563197   -2.782775   -0.309302
-0.000506   -0.161686   -0.986760

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   31.734682   47.811514   0.518875
 0.001038    0.562746   72.100161
0.57749   31.734682   47.811514   0.518875
 0.001038    0.345184   52.732797
0.71833   31.734682   47.811514   0.518875
 0.001038    0.127521   35.004099
0.85916   31.734682   47.811514   0.518875
 0.001038    0.308000   20.454128
1.00000   31.734682   47.811514   0.518875
 0.001038    0.308393    7.536215

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -14.827286   -5.584898   -0.516066
-0.000997   -0.557147   -7.898664
0.57749  -14.827286   -5.584898   -0.516066
-0.000997   -0.340753   -5.628430
0.71833  -14.827286   -5.584898   -0.516066
-0.000997   -0.124329   -3.738863
0.85916  -14.827286   -5.584898   -0.516066
-0.000997   -0.090485   -2.908095
1.00000  -14.827286   -5.584898   -0.516066
-0.000997   -0.308030  -13.505104
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                                2040

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   15.674735   54.707462   0.729259
 0.001310    0.789922   94.547662
0.57749   15.674735   54.707462   0.729259
 0.001310    0.484145   72.048855
0.71833   15.674735   54.707462   0.729259
 0.001310    0.178258   50.491404
0.85916   15.674735   54.707462   0.729259
 0.001310    0.133752   31.228446
1.00000   15.674735   54.707462   0.729259
 0.001310    0.449566   12.955581

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -24.085933   -6.781814   -0.753311
-0.001253   -0.813880   -8.226906
0.57749  -24.085933   -6.781814   -0.753311
-0.001253   -0.498012   -5.496686
0.71833  -24.085933   -6.781814   -0.753311
-0.001253   -0.182100   -3.371571
0.85916  -24.085933   -6.781814   -0.753311
-0.001253   -0.112648   -2.197154
1.00000  -24.085933   -6.781814   -0.753311
-0.001253   -0.434026   -6.464867

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   16.121883   68.811060   0.914146
 0.004073    0.989406  125.394451
0.57749   16.121883   68.811060   0.914146
 0.004073    0.606105   97.845408
0.71833   16.121883   68.811060   0.914146
 0.004073    0.222799   72.977994
0.85916   16.121883   68.811060   0.914146
 0.004073    0.182207   62.416560
1.00000   16.121883   68.811060   0.914146
 0.004073    0.606105   53.078986

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -51.926929  -46.133034   -1.016419
-0.003378   -1.098624  -41.348709
0.57749  -51.926929  -46.133034   -1.016419
-0.003378   -0.672435  -23.248101
0.71833  -51.926929  -46.133034   -1.016419
-0.003378   -0.246183  -11.639382
0.85916  -51.926929  -46.133034   -1.016419
-0.003378   -0.172079   -6.621535
1.00000  -51.926929  -46.133034   -1.016419
-0.003378   -0.552737   -8.683608

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   49.419955   3.386915   1.216632
 0.000974    1.311371   6.359744
0.57749   49.419955   3.386915   1.216632
 0.000974    0.801591   4.951230
0.71833   49.419955   3.386915   1.216632
 0.000974    0.291597   3.554788
0.85916   49.419955   3.386915   1.216632
 0.000974    0.202467   2.205524
1.00000   49.419955   3.386915   1.216632
 0.000974    0.683259   1.015795

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665   -4.604440  -86.747469  -1.144627
-0.000953   -1.236476 -165.582776
0.57749   -4.604440  -86.747469  -1.144627
-0.000953   -0.756648 -129.280612
0.71833   -4.604440  -86.747469  -1.144627
-0.000953   -0.276636  -92.999802
0.85916   -4.604440  -86.747469  -1.144627
-0.000953   -0.217580  -56.754306
1.00000   -4.604440  -86.747469  -1.144627
-0.000953   -0.727378  -20.771752
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                                2041

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   45.101012   24.548352   1.776445
 0.006418    1.911226   44.941938
0.57749   45.101012   24.548352   1.776445
 0.006418    1.166808   35.450376
0.71833   45.101012   24.548352   1.776445
 0.006418    0.424987   32.355149
0.85916   45.101012   24.548352   1.776445
 0.006418    0.319502   53.977772
1.00000   45.101012   24.548352   1.776445
 0.006418    1.045748   77.790900

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -49.792427 -158.571990   -1.749182
-0.004790   -1.887597  -213.813517
0.57749  -49.792427 -158.571990   -1.749182
-0.004790   -1.154193  -148.042481
0.71833  -49.792427 -158.571990   -1.749182
-0.004790   -0.422807   -94.563111
0.85916  -49.792427 -158.571990   -1.749182
-0.004790   -0.342350   -55.486555
1.00000  -49.792427 -158.571990   -1.749182
-0.004790   -1.083480   -23.075157

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   42.283387   62.023080   1.962836
 0.005037    2.115402  112.318845
0.57749   42.283387   62.023080   1.962836
 0.005037    1.292313   86.836510
0.71833   42.283387   62.023080   1.962836
 0.005037    0.471607   65.857815
0.85916   42.283387   62.023080   1.962836
 0.005037    0.343102   62.266063
1.00000   42.283387   62.023080   1.962836
 0.005037    1.139194   59.705919

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -45.490464 -126.299267   -1.909106
-0.003880   -2.062206  -179.791359
0.57749  -45.490464 -126.299267   -1.909106
-0.003880   -1.261505  -127.315349
0.71833  -45.490464 -126.299267   -1.909106
-0.003880   -0.461874   -83.536995
0.85916  -45.490464 -126.299267   -1.909106
-0.003880   -0.365232   -49.863155
1.00000  -45.490464 -126.299267   -1.909106
-0.003880   -1.185546   -20.496801

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   54.090407   91.547528   1.940102
 0.004468    2.092022  155.635368
0.57749   54.090407   91.547528   1.940102
 0.004468    1.278345  117.698502
0.71833   54.090407   91.547528   1.940102
 0.004468    0.466836   83.598376
0.85916   54.090407   91.547528   1.940102
 0.004468    0.334138   64.888107
1.00000   54.090407   91.547528   1.940102
 0.004468    1.111979   51.685482

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -43.355002 -106.601136   -1.864169
-0.003510   -2.013763  -152.583067
0.57749  -43.355002 -106.601136   -1.864169
-0.003510   -1.231751  -108.273284
0.71833  -43.355002 -106.601136   -1.864169
-0.003510   -0.451001   -71.206884
0.85916  -43.355002 -106.601136   -1.864169
-0.003510   -0.357370   -42.817332
1.00000  -43.355002 -106.601136   -1.864169
-0.003510   -1.168436   -25.141526
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                                2042

F R A M E  E L E M E N T  I N T E R N A
L  F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   0.145685   28.233774   0.517802
 0.003903    0.556432   56.761579
0.57749   0.145685   28.233774   0.517802
 0.003903    0.339529   45.574706
0.71833   0.145685   28.233774   0.517802
 0.003903    0.124481   38.939524
0.85916   0.145685   28.233774   0.517802
 0.003903    0.105409   49.912270
1.00000   0.145685   28.233774   0.517802
 0.003903    0.334742   63.969184

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -53.870617  -57.927541   -0.560116
-0.002784   -0.604048   -43.656052
0.57749  -53.870617  -57.927541   -0.560116
-0.002784   -0.368931   -19.895282
0.71833  -53.870617  -57.927541   -0.560116
-0.002784   -0.135599    -4.802589
0.85916  -53.870617  -57.927541   -0.560116
-0.002784   -0.108583    -0.084780
1.00000  -53.870617  -57.927541   -0.560116
-0.002784   -0.323221    -3.177117

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   15.526123   87.335211   0.913758
 0.004026    0.985088  150.751775
0.57749   15.526123   87.335211   0.913758
 0.004026    0.601678  114.623844
0.71833   15.526123   87.335211   0.913758
 0.004026    0.220641   82.855157
0.85916   15.526123   87.335211   0.913758
 0.004026    0.163904   68.772890
1.00000   15.526123   87.335211   0.913758
 0.004026    0.536039   58.985600

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
         T          M2         M3
0.43665  -46.756559  -44.343445   -0.898767
-0.002959   -0.970945   -29.220796
0.57749  -46.756559  -44.343445   -0.898767
-0.002959   -0.593740   -11.015385
0.71833  -46.756559  -44.343445   -0.898767
-0.002959   -0.217564    -1.008888
0.85916  -46.756559  -44.343445   -0.898767
-0.002959   -0.159936    -0.904648
1.00000  -46.756559  -44.343445   -0.898767
-0.002959   -0.556417    -9.522583

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
         T          M2         M3
0.43665   27.506563   92.505590   1.672896
```

```
 0.003297    1.805200   166.538358
0.57749    27.506563    92.505590    1.672896
 0.003297    1.103536   128.112478
0.71833    27.506563    92.505590    1.672896
 0.003297    0.403446   92.582969
0.85916    27.506563    92.505590    1.672896
 0.003297    0.292953   68.980988
1.00000    27.506563    92.505590    1.672896
 0.003297    0.980238   49.681932

COMB DL-G2-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -56.757127   -71.811511   -1.644238
-0.002597    -1.776909   -94.672261
0.57749   -56.757127   -71.811511   -1.644238
-0.002597    -1.087146   -64.895166
0.71833   -56.757127   -71.811511   -1.644238
-0.002597    -0.397031   -40.488699
0.85916   -56.757127   -71.811511   -1.644238
-0.002597    -0.305305   -22.787739
1.00000   -56.757127   -71.811511   -1.644238
-0.002597    -1.004871   -13.005826
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2043

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665   28.753181   103.055078    1.693873
 0.003052    1.828640   184.597296
0.57749   28.753181   103.055078    1.693873
 0.003052    1.118472   141.698121
0.71833   28.753181   103.055078    1.693873
 0.003052    0.409362   101.224642
0.85916   28.753181   103.055078    1.693873
 0.003052    0.294932   70.564754
1.00000   28.753181   103.055078    1.693873
 0.003052    0.988612   44.772186

COMB DL-G2-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -55.425313   -61.645320   -1.658892
-0.002478    -1.793013   -82.269864
0.57749   -55.425313   -61.645320   -1.658892
-0.002478    -1.097034   -56.696092
0.71833   -55.425313   -61.645320   -1.658892
-0.002478    -0.401024   -35.634825
0.85916   -55.425313   -61.645320   -1.658892
-0.002478    -0.306207   -20.124632
1.00000   -55.425313   -61.645320   -1.658892
-0.002478    -1.014772   -13.134261

COMB DL-G3-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665    4.123006    29.185050    0.448826
 0.000477    0.486117    56.141887
0.57749    4.123006    29.185050    0.448826
 0.000477    0.297619    43.913392
0.71833    4.123006    29.185050    0.448826
 0.000477    0.109794    31.698583
0.85916    4.123006    29.185050    0.448826
 0.000477    0.079549    19.724728
1.00000    4.123006    29.185050    0.448826
 0.000477    0.269299    8.319426

COMB DL-G3-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -20.083821    -4.353353   -0.452669
-0.000485    -0.489796    -6.803149
0.57749   -20.083821    -4.353353   -0.452669
-0.000485    -0.300006    -5.149934
0.71833   -20.083821    -4.353353   -0.452669
-0.000485    -0.110182    -3.514695
0.85916   -20.083821    -4.353353   -0.452669
-0.000485    -0.076930    -1.997741
1.00000   -20.083821    -4.353353   -0.452669
-0.000485    -0.265021    -1.105657

COMB DL-G3-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665   32.981849    89.045734    0.828184
 0.000906    0.455920    140.247373
0.57749   32.981849    89.045734    0.828184
 0.000906    0.548359    107.931079
0.71833   32.981849    89.045734    0.828184
 0.000906    0.201574    71.044608
0.85916   32.981849    89.045734    0.828184
 0.000906    0.137376    37.300437
1.00000   32.981849    89.045734    0.828184
 0.000906    0.464006    10.648863

COMB DL-G3-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -23.458457    -5.878320   -0.779568
-0.000879    -0.842987    -9.356554
0.57749   -23.458457    -5.878320   -0.779568
-0.000879    -0.516067    -6.902104
0.71833   -23.458457    -5.878320   -0.779568
-0.000879    -0.189069    -4.701878
0.85916   -23.458457    -5.878320   -0.779568
-0.000879    -0.144020    -3.544627
1.00000   -23.458457    -5.878320   -0.779568
-0.000879    -0.490568   -13.610212
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2044

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665   18.876721   101.027225    1.110831
 0.000931    1.202369   180.056032
0.57749   18.876721   101.027225    1.110831
 0.000931    0.736729   137.715397
0.71833   18.876721   101.027225    1.110831
 0.000931    0.270647   95.512712
0.85916   18.876721   101.027225    1.110831
 0.000931    0.188386   54.757484
1.00000   18.876721   101.027225    1.110831
 0.000931    0.641394   17.974579

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -41.377329    -6.209270   -1.079208
-0.000934    -1.167810    -10.102319
0.57749   -41.377329    -6.209270   -1.079208
-0.000934    -0.715044    -7.509822
0.71833   -41.377329    -6.209270   -1.079208
-0.000934    -0.262003    -4.938903
0.85916   -41.377329    -6.209270   -1.079208
-0.000934    -0.191187    -2.832388
1.00000   -41.377329    -6.209270   -1.079208
-0.000934    -0.656259    -7.362018

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665   19.908182   107.005168    1.522381
 0.003119    1.644163   196.191365
0.57749   19.908182   107.005168    1.522381
 0.003119    1.005292   151.669328
0.71833   19.908182   107.005168    1.522381
 0.003119    0.366648   109.797761
0.85916   19.908182   107.005168    1.522381
 0.003119    0.269879   78.900435
1.00000   19.908182   107.005168    1.522381
 0.003119    0.903199   52.325217

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -68.395764   -48.576178   -1.515796
-0.002493    -1.638482   -54.656170
0.57749   -68.395764   -48.576178   -1.515796
-0.002493    -1.002527   -34.583353
0.71833   -68.395764   -48.576178   -1.515796
-0.002493    -0.367032   -19.407227
0.85916   -68.395764   -48.576178   -1.515796
-0.002493    -0.275517   -10.371103
1.00000   -68.395764   -48.576178   -1.515796
-0.002493    -0.912035    -9.318440

COMB     DB ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665   35.608059    68.811060    1.136864
 0.006556    1.229276   125.394451
0.57749   35.608059    68.811060    1.136864
 0.006556    0.752593    97.845408
0.71833   35.608059    68.811060    1.136864
 0.006556    0.275873    72.977994
0.85916   35.608059    68.811060    1.136864
 0.006556    0.226857    62.416560
1.00000   35.608059    68.811060    1.136864
 0.006556    0.755089    72.035353

COMB     DB ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -51.926929   -112.259135   -1.266916
-0.005237    -1.369777   -124.391764
0.57749   -51.926929   -112.259135   -1.266916
-0.005237    -0.838559    -79.945391
0.71833   -51.926929   -112.259135   -1.266916
-0.005237    -0.307264    -47.332114
0.85916   -51.926929   -112.259135   -1.266916
-0.005237    -0.214350    -26.901192
1.00000   -51.926929   -112.259135   -1.266916
-0.005237    -0.686745    -17.738914
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2045

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     DL ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665   54.090407   107.005168    1.962836
 0.006418    2.115402   196.191365
0.57749   54.090407   107.005168    1.962836
 0.006418    1.292313   151.669328
0.71833   54.090407   107.005168    1.962836
 0.006418    0.471607   109.797761
0.85916   54.090407   107.005168    1.962836
 0.006418    0.343102   78.900435
1.00000   54.090407   107.005168    1.962836
 0.006418    1.139194   77.790900

COMB     DL ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -68.395764   -158.571990   -1.909106
-0.004790    -2.062206   -213.813517
0.57749   -68.395764   -158.571990   -1.909106
-0.004790    -1.261505   -148.042481
0.71833   -68.395764   -158.571990   -1.909106
-0.004790    -0.461874   -94.563111
0.85916   -68.395764   -158.571990   -1.909106
-0.004790    -0.365232   -56.754306
1.00000   -68.395764   -158.571990   -1.909106
-0.004790    -1.185546   -25.141526

COMB    CAR ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665   54.090407   107.005168    1.962836
 0.006556    2.115402   196.191365
0.57749   54.090407   107.005168    1.962836
 0.006556    1.292313   151.669328
0.71833   54.090407   107.005168    1.962836
 0.006556    0.471607   109.797761
0.85916   54.090407   107.005168    1.962836
 0.006556    0.343102   78.900435
1.00000   54.090407   107.005168    1.962836
 0.006556    1.139194   77.790900

COMB    CAR ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -68.395764   -158.571990   -1.909106
-0.005237    -2.062206   -213.813517
0.57749   -68.395764   -158.571990   -1.909106
-0.005237    -1.261505   -148.042481
0.71833   -68.395764   -158.571990   -1.909106
-0.005237    -0.461874   -94.563111
0.85916   -68.395764   -158.571990   -1.909106
-0.005237    -0.365232   -56.754306
1.00000   -68.395764   -158.571990   -1.909106
-0.005237    -1.185546   -25.141526

COMB  DESIGN ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665   54.090407   107.005168    1.962836
 0.006556    2.115402   196.191365
0.57749   54.090407   107.005168    1.962836
 0.006556    1.292313   151.669328
0.71833   54.090407   107.005168    1.962836
 0.006556    0.471607   109.797761
0.85916   54.090407   107.005168    1.962836
 0.006556    0.343102   78.900435
1.00000   54.090407   107.005168    1.962836
 0.006556    1.139194   77.790900

COMB  DESIGN ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665   -68.395764   -158.571990   -1.909106
-0.005237    -2.062206   -213.813517
0.57749   -68.395764   -158.571990   -1.909106
-0.005237    -1.261505   -148.042481
0.71833   -68.395764   -158.571990   -1.909106
-0.005237    -0.461874   -94.563111
0.85916   -68.395764   -158.571990   -1.909106
-0.005237    -0.365232   -56.754306
1.00000   -68.395764   -158.571990   -1.909106
-0.005237    -1.185546   -25.141526
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2046

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       179 ================== LENGTH
=     2.977337

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    21.913590    2.690111    0.671820
 0.000933    0.402974    0.812509
0.14084    21.913590    2.690111    0.671820
 0.000933    0.121249    9.252409
0.28168    21.913590    2.690111    0.671820
 0.000933    0.180134   26.424878
0.42253    21.913590    2.690111    0.671820
 0.000933    0.496290   43.630021
0.56337    21.913590    2.690111    0.671820
 0.000933    0.812358   60.842782

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -3.480570   -41.048636   -0.753737
-0.000934    -0.451913    -9.294620
0.14084   -3.480570   -41.048636   -0.753737
-0.000934    -0.135815    -0.732717
0.28168   -3.480570   -41.048636   -0.753737
-0.000934    -0.160465    -1.755180
0.42253   -3.480570   -41.048636   -0.753737
-0.000934    -0.442191    -2.860548
0.56337   -3.480570   -41.048636   -0.753737
-0.000934    -0.723909    -3.984618

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   21.597966   76.898405    0.966494
 0.005223    0.591488   72.285348
0.14084   21.597966   76.898405    0.966494
 0.005223    0.194033   55.614313
0.28168   21.597966   76.898405    0.966494
 0.005223    0.276495   47.519894
0.42253   21.597966   76.898405    0.966494
 0.005223    0.761507   66.417909
0.56337   21.597966   76.898405    0.966494
 0.005223    1.246438   90.824829

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -45.880860   -58.948882   -1.156438
-0.006548    -0.693298   -13.529938
0.14084   -45.880860   -58.948882   -1.156438
-0.006548    -0.213603    -2.201840
0.28168   -45.880860   -58.948882   -1.156438
-0.006548    -0.231300    -3.541700
0.42253   -45.880860   -58.948882   -1.156438
-0.006548    -0.636592   -27.108409
0.56337   -45.880860   -58.948882   -1.156438
-0.006548    -1.041876   -59.330691

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   19.358985   76.218470    1.136915
 0.003777    0.689265   51.191741
0.14084   19.358985   76.218470    1.136915
 0.003777    0.217792   35.683562
0.28168   19.358985   76.218470    1.136915
 0.003777    0.308539   32.357168
0.42253   19.358985   76.218470    1.136915
 0.003777    0.848761   47.429956
0.56337   19.358985   76.218470    1.136915
 0.003777    1.388933   66.254965

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -36.134004   -45.399741   -1.288168
-0.004678    -0.771756   -11.146412
0.14084   -36.134004   -45.399741   -1.288168
-0.004678    -0.235008    -7.323973
0.28168   -36.134004   -45.399741   -1.288168
-0.004678    -0.272543   -18.664486
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2047

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.42253   -36.134004   -45.399741   -1.288168
-0.004678    -0.749316   -44.779380
0.56337   -36.134004   -45.399741   -1.288168
-0.004678    -1.226061   -76.740379

COMB DB-G1-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   35.452519   83.725561    1.151397
 0.003561    0.696692   43.986055
0.14084   35.452519   83.725561    1.151397
 0.003561    0.218224   29.920290
0.28168   35.452519   83.725561    1.151397
 0.003561    0.300885   27.747524
0.42253   35.452519   83.725561    1.151397
 0.003561    0.827612   40.844447
0.56337   35.452519   83.725561    1.151397
 0.003561    1.354297   57.054321

COMB DB-G1-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -34.236937   -39.077622   -1.255992
-0.004334    -0.749419    -17.775424
0.14084   -34.236937   -39.077622   -1.255992
-0.004334    -0.228560    -22.672078
0.28168   -34.236937   -39.077622   -1.255992
-0.004334    -0.275841    -40.115336
0.42253   -34.236937   -39.077622   -1.255992
-0.004334    -0.758689    -69.318188
0.56337   -34.236937   -39.077622   -1.255992
-0.004334    -1.241509   -104.379964

COMB DB-G2-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.189248   70.006491    0.305607
 0.003428    0.192793   64.809132
0.14084    0.189248   70.006491    0.305607
 0.003428    0.071179   44.878972
0.28168    0.189248   70.006491    0.305607
 0.003428    0.095675   25.536215
0.42253    0.189248   70.006491    0.305607
 0.003428    0.262810   28.733387
0.56337    0.189248   70.006491    0.305607
 0.003428    0.429944   36.536861

COMB DB-G2-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -46.242046   -19.253000   -0.398573
-0.004544    -0.238597    -3.830686
0.14084   -46.242046   -19.253000   -0.398573
-0.004544    -0.075858    -1.306967
0.28168   -46.242046   -19.253000   -0.398573
-0.004544    -0.073743    -4.751998
0.42253   -46.242046   -19.253000   -0.398573
-0.004544    -0.201893   -26.829241
0.56337   -46.242046   -19.253000   -0.398573
-0.004544    -0.330044   -56.098928

COMB DB-G2-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   15.797540   97.972214    0.590262
 0.003373    0.362346   58.585904
0.14084   15.797540   97.972214    0.590262
 0.003373    0.120881   29.861638
0.28168   15.797540   97.972214    0.590262
 0.003373    0.152104    7.516312
0.42253   15.797540   97.972214    0.590262
 0.003373    0.417366    6.151382
0.56337   15.797540   97.972214    0.590262
 0.003373    0.682622    9.073003

COMB DB-G2-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -39.640467    -7.547641   -0.632552
-0.004442    -0.378373   -10.327462
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2048

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.14084   -39.640467    -7.547641   -0.632552
-0.004442    -0.117084   -20.090726
0.28168   -39.640467    -7.547641   -0.632552
-0.004442    -0.142209   -37.576118
0.42253   -39.640467    -7.547641   -0.632552
-0.004442    -0.389747   -71.968281
0.56337   -39.640467    -7.547641   -0.632552
-0.004442    -0.637264   -113.049604

COMB DB-G2-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   22.593317    93.945798    0.992220
 0.003146    0.600834    51.477110
0.14084   22.593317    93.945798    0.992220
 0.003146    0.189028    29.652861
0.28168   22.593317    93.945798    0.992220
 0.003146    0.265934    22.766233
0.42253   22.593317    93.945798    0.992220
 0.003146    0.731412    31.123074
0.56337   22.593317    93.945798    0.992220
 0.003146    1.196832    42.554391

COMB DB-G2-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -50.527462   -27.832262   -1.109891
-0.003949    -0.664821   -11.909796
0.14084   -50.527462   -27.832262   -1.109891
-0.003949    -0.202134   -18.410744
0.28168   -50.527462   -27.832262   -1.109891
-0.003949    -0.238037   -39.255890
0.42253   -50.527462   -27.832262   -1.109891
-0.003949    -0.654137   -73.909706
0.56337   -50.527462   -27.832262   -1.109891
-0.003949    -1.070209   -113.298453

COMB DB-G2-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   23.936506    89.834386    1.021031
 0.003082    0.617401    45.146708
0.14084   23.936506    89.834386    1.021031
 0.003082    0.192783    24.996685
0.28168   23.936506    89.834386    1.021031
 0.003082    0.268800    19.799227
0.42253   23.936506    89.834386    1.021031
 0.003082    0.739553    27.370985
0.56337   23.936506    89.834386    1.021031
 0.003082    1.210242    37.518350

COMB DB-G2-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -47.691670   -24.676969   -1.122461
-0.003749    -0.672497   -12.246179
0.14084   -47.691670   -24.676969   -1.122461
-0.003749    -0.204062   -20.162013
0.28168   -47.691670   -24.676969   -1.122461
-0.003749    -0.244501   -40.583137
0.42253   -47.691670   -24.676969   -1.122461
-0.003749    -0.672720   -73.988732
0.56337   -47.691670   -24.676969   -1.122461
-0.003749    -1.100874   -111.544640

COMB DB-G3-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    3.457965    15.843205    0.286882
 0.000717    0.172566    4.261778
0.14084    3.457965    15.843205    0.286882
 0.000717    0.052161    2.653385
0.28168    3.457965    15.843205    0.286882
 0.000717    0.074738    3.724212
0.42253    3.457965    15.843205    0.286882
 0.000717    0.206130    4.827128
0.56337    3.457965    15.843205    0.286882
 0.000717    0.337507    5.936261
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2049

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -10.601832    -2.722402   -0.313299
-0.000724    -0.188001    -0.989576
0.14084   -10.601832    -2.722402   -0.313299
-0.000724    -0.056560    -3.500120
0.28168   -10.601832    -2.722402   -0.313299
-0.000724    -0.067988   -10.048999
0.42253   -10.601832    -2.722402   -0.313299
-0.000724    -0.188346   -16.669002
0.56337   -10.601832    -2.722402   -0.313299
-0.000724    -0.308645   -23.300924

COMB DB-G3-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   31.670850    49.756253    0.537426
 0.001278    0.322962    7.554780
0.14084   31.670850    49.756253    0.537426
 0.001278    0.097750    2.063675
0.28168   31.670850    49.756253    0.537426
 0.001278    0.124572    2.669999
0.42253   31.670850    49.756253    0.537426
 0.001278    0.342879    4.145796
0.56337   31.670850    49.756253    0.537426
 0.001278    0.561152    5.798663

COMB DB-G3-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -15.132872    -3.965667   -0.520507
-0.001376    -0.311901    -13.509367
0.14084   -15.132872    -3.965667   -0.520507
-0.001376    -0.093661    -29.335687
0.28168   -15.132872    -3.965667   -0.520507
-0.001376    -0.128072    -48.904676
0.42253   -15.132872    -3.965667   -0.520507
-0.001376    -0.353514    -69.442529
0.56337   -15.132872    -3.965667   -0.520507
-0.001376    -0.578875    -90.275426

COMB DB-G3-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   15.602687    58.288477    0.744268
```

```
 0.001097    0.446568   12.989336
 0.14084    15.602687   58.288477    0.744268
 0.001097    0.134761    3.191548
 0.28168    15.602687   58.288477    0.744268
 0.001097    0.182941    3.254261
 0.42253    15.602687   58.288477    0.744268
 0.001097    0.502741    4.697353
 0.56337    15.602687   58.288477    0.744268
 0.001097    0.822512    6.421868

COMB DB-G3-3 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -24.637738   -4.150730   -0.762557
-0.001197   -0.456547   -6.470566
 0.14084  -24.637738   -4.150730   -0.762557
-0.001197   -0.136806  -20.597240
 0.28168  -24.637738   -4.150730   -0.762557
-0.001197   -0.178179   -43.165052
 0.42253  -24.637738   -4.150730   -0.762557
-0.001197   -0.490362   -67.123370
 0.56337  -24.637738   -4.150730   -0.762557
-0.001197   -0.802459   -91.533378

COMB DB-G3-4 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   15.988156  100.959093    0.929750
 0.003389    0.563826   53.236267
 0.14084   15.988156  100.959093    0.929750
 0.003389    0.178139   26.450225
 0.28168   15.988156  100.959093    0.929750
 0.003389    0.247390   15.194243
 0.42253   15.988156  100.959093    0.929750
 0.003389    0.680678   19.077613
 0.56337   15.988156  100.959093    0.929750
 0.003389    1.113911   26.063528
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2050

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -56.194036  -17.183971   -1.033136
-0.004141   -0.618999   -8.709961
 0.14084  -56.194036  -17.183971   -1.033136
-0.004141   -0.188421  -17.889038
 0.28168  -56.194036  -17.183971   -1.033136
-0.004141   -0.222537  -41.925517
 0.42253  -56.194036  -17.183971   -1.033136
-0.004141   -0.612485  -79.388722
 0.56337  -56.194036  -17.183971   -1.033136
-0.004141   -1.002361 -121.695714

COMB DL-G1-1 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   49.218122    3.420008    1.208230
 0.000999    0.720507    1.011660
 0.14084   49.218122    3.420008    1.208230
 0.000999    0.214067   16.209861
 0.28168   49.218122    3.420008    1.208230
 0.000999    0.274421   52.204197
 0.42253   49.218122    3.420008    1.208230
 0.000999    0.753848   88.284423
 0.56337   49.218122    3.420008    1.208230
 0.000999    1.233055  124.379644

COMB DL-G1-1 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   -4.435494  -86.099807   -1.143073
-0.001010   -0.684250  -20.742595
 0.14084   -4.435494  -86.099807   -1.143073
-0.001010   -0.204153   -0.937563
 0.28168   -4.435494  -86.099807   -1.143073
-0.001010   -0.291626   -2.239312
 0.42253   -4.435494  -86.099807   -1.143073
-0.001010   -0.798119   -3.641304
 0.56337   -4.435494  -86.099807   -1.143073
-0.001010   -1.304457   -5.064051

COMB DL-G1-2 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   44.839229   81.926572    1.771276
 0.000983    0.078690    1.063126
 0.14084   44.839229   81.926572    1.771276
 0.004983    0.341212   66.627713
 0.28168   44.839229   81.926572    1.771276
 0.004983    0.422238   75.210128
 0.42253   44.839229   81.926572    1.771276
 0.004983    1.158481  112.229362
 0.56337   44.839229   81.926572    1.771276
 0.004983    1.896876  154.626329

COMB DL-G1-2 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -57.401241 -102.527355   -1.761033
-0.006590   -1.056683  -23.095338
 0.14084  -57.401241 -102.527355   -1.761033
-0.006590   -0.326195   -2.447255
 0.28168  -57.401241 -102.527355   -1.761033
-0.006590   -0.423775   -4.506371
 0.42253  -57.401241 -102.527355   -1.761033
-0.006590   -1.163597  -30.460001
 0.56337  -57.401241 -102.527355   -1.761033
-0.006590   -1.906134  -64.365226

COMB DL-G1-3 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   42.050380  103.787872    1.972248
 0.003754    1.192586   59.784012
 0.14084   42.050380  103.787872    1.972248
 0.003754    0.368993   47.356877
 0.28168   42.050380  103.787872    1.972248
 0.003754    0.462813   59.508654
 0.42253   42.050380  103.787872    1.972248
 0.003754    1.272133   91.570221
 0.56337   42.050380  103.787872    1.972248
 0.003754    2.082831  127.399855
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2051

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -50.991748  -86.377610   -1.932650
-0.004895   -0.158555  -20.506745
 0.14084  -50.991748  -86.377610   -1.932650
-0.004895   -0.352935   -14.401435
 0.28168  -50.991748  -86.377610   -1.932650
-0.004895   -0.471551   -35.496917
 0.42253  -50.991748  -86.377610   -1.932650
-0.004895   -1.296424   -73.267086
 0.56337  -50.991748  -86.377610   -1.932650
-0.004895   -2.123333  -116.418656

COMB DL-G1-4 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   53.866679  126.346641    1.957990
 0.003526    1.181695   51.757891
 0.14084   53.866679  126.346641    1.957990
 0.003526    0.363610   39.688813
 0.28168   53.866679  126.346641    1.957990
 0.003526    0.452159   50.524030
 0.42253   53.866679  126.346641    1.957990
 0.003526    1.243205   77.893751
 0.56337   53.866679  126.346641    1.957990
 0.003526    2.035690  108.391732

COMB DL-G1-4 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -47.927803  -73.505003   -1.888921
-0.004494   -1.131940  -25.148802
 0.14084  -47.927803  -73.505003   -1.888921
-0.004494   -0.344065  -34.999000
 0.28168  -47.927803  -73.505003   -1.888921
-0.004494   -0.467847  -69.205770
 0.42253  -47.927803  -73.505003   -1.888921
-0.004494   -1.287113 -117.261111
 0.56337  -47.927803  -73.505003   -1.888921
-0.004494   -2.108147 -169.779569

COMB DL-G2-1 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   0.133678   69.098515    0.528010
 0.002674   0.331170   64.035218
 0.14084   0.133678   69.098515    0.528010
 0.002674   0.113188   42.776923
 0.28168   0.133678   69.098515    0.528010
 0.002674   0.138152   26.151383
 0.42253   0.133678   69.098515    0.528010
 0.002674   0.379547   29.863403
 0.56337   0.133678   69.098515    0.528010
 0.002674   0.622160   37.416330

COMB DL-G2-1 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -59.388262  -19.240583   -0.578772
-0.003807   -0.343947   -3.211160
 0.14084  -59.388262  -19.240583   -0.578772
-0.003807   -0.111520   -1.326435
 0.28168  -59.388262  -19.240583   -0.578772
-0.003807   -0.123912   -6.908268
 0.42253  -59.388262  -19.240583   -0.578772
-0.003807   -0.343257  -29.899200
 0.56337  -59.388262  -19.240583   -0.578772
-0.003807   -0.564425  -58.356358

COMB DL-G2-2 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   15.504191  127.085562    0.937677
 0.002714    0.574189   59.073753
 0.14084   15.504191  127.085562    0.937677
 0.002714    0.184699   28.526839
 0.28168   15.504191  127.085562    0.937677
 0.002714    0.221020    9.037343
 0.42253   15.504191  127.085562    0.937677
 0.002714    0.608688    8.287762
 0.56337   15.504191  127.085562    0.937677
 0.002714    0.997691   11.078714
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2052

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -52.150010   -7.550196   -0.926561
-0.003826   -0.556167   -9.563935
 0.14084  -52.150010   -7.550196   -0.926561
-0.003826   -0.172903   -29.338809
 0.28168  -52.150010   -7.550196   -0.926561
-0.003826   -0.221675   -61.491365
 0.42253  -52.150010   -7.550196   -0.926561
-0.003826   -0.612774  -109.362608
 0.56337  -52.150010   -7.550196   -0.926561
-0.003826   -1.006271  -162.307444

COMB DL-G2-3 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   27.317865  118.814855    1.689902
 0.002575    0.018682   49.751851
 0.14084   27.317865  118.814855    1.689902
 0.002575    0.312310   34.195380
 0.28168   27.317865  118.814855    1.689902
 0.002575    0.399117   38.447540
 0.42253   27.317865  118.814855    1.689902
 0.002575    1.101150   55.459505
 0.56337   27.317865  118.814855    1.689902
 0.002575    1.802730   74.868122

COMB DL-G2-3 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -60.248764  -47.107912   -1.672464
-0.003334   -1.002285  -13.011205
 0.14084  -60.248764  -47.107912   -1.672464
-0.003334   -0.303334  -26.685107
 0.28168  -60.248764  -47.107912   -1.672464
-0.003334   -0.403389  -62.164777
 0.42253  -60.248764  -47.107912   -1.672464
-0.003334   -1.110869  -98.015862
 0.56337  -60.248764  -47.107912   -1.672464
-0.003334   -1.819411  -157.844097

COMB DL-G2-4 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   28.571021  125.250864    1.720187
 0.002621    1.035591   44.838386
 0.14084   28.571021  125.250864    1.720187
 0.002621    0.316419   28.752304
 0.28168   28.571021  125.250864    1.720187
 0.002621    0.403220   32.991868
 0.42253   28.571021  125.250864    1.720187
 0.002621    1.112481   47.790748
 0.56337   28.571021  125.250864    1.720187
 0.002621    1.821610   64.671322

COMB DL-G2-4 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -58.362902  -40.946886   -1.690133
-0.003246   -1.012806  -13.140792
 0.14084  -58.362902  -40.946886   -1.690133
-0.003246   -0.306206  -31.872794
 0.28168  -58.362902  -40.946886   -1.690133
-0.003246   -0.410014  -71.625993
 0.42253  -58.362902  -40.946886   -1.690133
-0.003246   -1.130134 -120.962232
 0.56337  -58.362902  -40.946886   -1.690133
-0.003246   -1.851702 -173.200776

COMB DL-G3-1 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   4.062960   29.455656    0.469589
 0.000708    0.281614    8.330775
 0.14084   4.062960   29.455656    0.469589
 0.000708    0.084990    2.543196
 0.28168   4.062960   29.455656    0.469589
 0.000708    0.111342    4.298068
 0.42253   4.062960   29.455656    0.469589
 0.000708    0.307294    6.108389
 0.56337   4.062960   29.455656    0.469589
 0.000708    0.503223    7.932823
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2053

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -20.094141   -4.365168   -0.467273
-0.000733   -0.280391   -1.109809
 0.14084  -20.094141   -4.365168   -0.467273
-0.000733   -0.084557   -5.300543
 0.28168  -20.094141   -4.365168   -0.467273
-0.000733   -0.110531  -17.542800
 0.42253  -20.094141   -4.365168   -0.467273
-0.000733   -0.307114  -29.864080
 0.56337  -20.094141   -4.365168   -0.467273
-0.000733   -0.504198  -42.207472

COMB DL-G3-2 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   32.880129  90.769806    0.859727
 0.001170    0.514610  10.672497
 0.14084   32.880129  90.769806    0.859727
 0.001170    0.154440   1.945467
 0.28168   32.880129  90.769806    0.859727
 0.001170    0.190782   3.260567
 0.42253   32.880129  90.769806    0.859727
 0.001170    0.526167   5.171714
 0.56337   32.880129  90.769806    0.859727
 0.001170    0.861429   7.195549

COMB DL-G3-2 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -23.650828   -4.854385   -0.799487
-0.001282   -0.479080  -13.613188
 0.14084  -23.650828   -4.854385   -0.799487
-0.001282   -0.144038  -41.700260
 0.28168  -23.650828   -4.854385   -0.799487
-0.001282   -0.203773  -78.995036
 0.42253  -23.650828   -4.854385   -0.799487
-0.001282   -0.563998 -116.869198
 0.56337  -23.650828   -4.854385   -0.799487
-0.001282   -0.924533 -154.915763

COMB DL-G3-3 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   18.805831  102.674960    1.152685
 0.000882    0.689173   18.022484
 0.14084   18.805831  102.674960    1.152685
 0.000882    0.206178    3.182443
 0.28168   18.805831  102.674960    1.152685
 0.000882    0.265586    5.667942
 0.42253   18.805831  102.674960    1.152685
 0.000882    0.733272    8.277438
 0.56337   18.805831  102.674960    1.152685
 0.000882    1.200860   10.910617

COMB DL-G3-3 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -41.558132   -6.315742   -1.114227
-0.000940   -0.667279   -7.369105
 0.14084  -41.558132   -6.315742   -1.114227
-0.000940   -0.199591  -32.766955
 0.28168  -41.558132   -6.315742   -1.114227
-0.000940   -0.272813   -75.559907
 0.42253  -41.558132   -6.315742   -1.114227
-0.000940   -0.755850  -118.558544
 0.56337  -41.558132   -6.315742   -1.114227
-0.000940   -1.239607  -161.586231

COMB DL-G3-4 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   19.756802  131.097596    1.555422
 0.002684    0.938528   52.398286
 0.14084   19.756802  131.097596    1.555422
 0.002684    0.258443   28.212116
 0.28168   19.756802  131.097596    1.555422
 0.002684    0.370240   24.805559
 0.42253   19.756802  131.097596    1.555422
 0.002684    1.020833   33.294548
 0.56337   19.756802  131.097596    1.555422
 0.002684    1.671711   44.036570
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2054

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -71.608930  -26.438715   -1.551538
-0.003363   -0.929986   -9.336535
 0.14084  -71.608930  -26.438755   -1.551538
-0.003363   -0.282236  -28.169741
 0.28168  -71.608930  -26.438755   -1.551538
-0.003363   -0.369231  -69.703720
 0.42253  -71.608930  -26.438755   -1.551538
-0.003363   -0.920071  -121.241305
 0.56337  -71.608930  -26.438755   -1.551538
-0.003363   -1.672497  -175.910238

COMB       DB ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   35.452519  100.959093    1.151397
 0.005223    0.696692   72.285348
 0.14084   35.452519  100.959093    1.151397
 0.005223    0.218224   55.614313
 0.28168   35.452519  100.959093    1.151397
 0.005223    0.308539   47.518994
 0.42253   35.452519  100.959093    1.151397
 0.005223    0.848761   66.417909
 0.56337   35.452519  100.959093    1.151397
 0.005223    1.388933   90.824829

COMB       DB ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -56.194036  -58.948882   -1.288168
-0.006548   -0.771756  -17.759424
 0.14084  -56.194036  -58.948882   -1.288168
-0.006548   -0.235008  -29.335687
 0.28168  -56.194036  -58.948882   -1.288168
-0.006548   -0.275841  -48.904676
 0.42253  -56.194036  -58.948882   -1.288168
-0.006548   -0.758689  -79.388722
 0.56337  -56.194036  -58.948882   -1.288168
-0.006548   -1.241509 -121.695714

COMB       DL ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   53.866679  131.097596    1.972248
 0.004983    1.192586   77.863126
 0.14084   53.866679  131.097596    1.972248
 0.004983    0.368993   66.627713
 0.28168   53.866679  131.097596    1.972248
 0.004983    0.462813   75.210128
 0.42253   53.866679  131.097596    1.972248
 0.004983    1.272133  112.229362
 0.56337   53.866679  131.097596    1.972248
 0.004983    2.082831  154.626329

COMB       DL ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -71.608930 -102.527355   -1.932650
-0.006590   -1.158555  -25.148802
 0.14084  -71.608930 -102.527355   -1.932650
-0.006590   -0.352935  -41.700260
 0.28168  -71.608930 -102.527355   -1.932650
-0.006590   -0.471551  -78.995036
 0.42253  -71.608930 -102.527355   -1.932650
-0.006590   -1.296424 -121.241305
 0.56337  -71.608930 -102.527355   -1.932650
-0.006590   -2.123333 -175.910238

COMB       CAR ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   53.866679  131.097596    1.972248
 0.005223    1.192586   77.863126
 0.14084   53.866679  131.097596    1.972248
 0.005223    0.368993   66.627713
 0.28168   53.866679  131.097596    1.972248
 0.005223    0.462813   75.210128
 0.42253   53.866679  131.097596    1.972248
 0.005223    1.272133  112.229362
 0.56337   53.866679  131.097596    1.972248
 0.005223    2.082831  154.626329
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2055

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB       CAR ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -71.608930 -102.527355   -1.932650
-0.006590   -1.158555  -25.148802
 0.14084  -71.608930 -102.527355   -1.932650
-0.006590   -0.352935  -41.700260
 0.28168  -71.608930 -102.527355   -1.932650
-0.006590   -0.471551  -78.995036
 0.42253  -71.608930 -102.527355   -1.932650
-0.006590   -1.296424 -121.241305
 0.56337  -71.608930 -102.527355   -1.932650
-0.006590   -2.123333 -175.910238

COMB       DESIGN ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.00000   53.866679  131.097596    1.972248
 0.005223    1.192586   77.863126
 0.14084   53.866679  131.097596    1.972248
 0.005223    0.368993   66.627713
 0.28168   53.866679  131.097596    1.972248
 0.005223    0.462813   75.210128
 0.42253   53.866679  131.097596    1.972248
 0.005223    1.272133  112.229362
 0.56337   53.866679  131.097596    1.972248
 0.005223    2.082831  154.626329

COMB       DESIGN ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.00000  -71.608930 -102.527355   -1.932650
-0.006590   -1.158555  -25.148802
 0.14084  -71.608930 -102.527355   -1.932650
-0.006590   -0.352935  -41.700260
 0.28168  -71.608930 -102.527355   -1.932650
-0.006590   -0.471551  -78.995036
 0.42253  -71.608930 -102.527355   -1.932650
-0.006590   -1.296424 -121.241305
 0.56337  -71.608930 -102.527355   -1.932650
-0.006590   -2.123333 -175.910238

ELEM    180 ================== LENGTH
=    2.977317

COMB DB-G1-1 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.43663   16.951309    2.455842    0.689181
 0.001346    0.743895    3.811197
 0.57748   16.951309    2.455842    0.689181
 0.001346    0.454902    3.038823
 0.71832   16.951309    2.455842    0.689181
 0.001346    0.165906    2.286144
 0.85916   16.951309    2.455842    0.689181
 0.001346    0.151608    1.593227
 1.00000   16.951309    2.455842    0.689181
 0.001346    0.501399    1.163752

COMB DB-G1-1 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.43663   -2.747146  -44.526388   -0.834074
-0.000494   -0.897610  -83.416371
 0.57748   -2.747146  -44.526388   -0.834074
-0.000494   -0.547859  -64.790245
 0.71832   -2.747146  -44.526388   -0.834074
-0.000494   -0.198080  -46.214529
 0.85916   -2.747146  -44.526388   -0.834074
-0.000494   -0.123105  -27.910479
 1.00000   -2.747146  -44.526388   -0.834074
-0.000494   -0.412098  -13.254242

COMB DB-G1-2 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.43663   17.238018   29.530144    0.990505
 0.005527    1.064371   46.942893
 0.57748   17.238018   29.530144    0.990505
 0.005527    0.649181   37.517739
 0.71832   17.238018   29.530144    0.990505
 0.005527    0.234455   36.127270
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2056

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST        P          V2          V3
       T        M2          M3
 0.85916   17.238018   29.530144    0.990505
 0.005527    0.235870   55.630736
 1.00000   17.238018   29.530144    0.990505
 0.005527    0.754708   81.730986

COMB DB-G1-2 ---------- MIN

REL DIST        P          V2          V3
       T        M2          M3
 0.43663  -32.358834 -117.722649   -1.261795
-0.006194   -1.361743 -126.104547
 0.57748  -32.358834 -117.722649   -1.261795
-0.006194   -0.832640   -81.895481
 0.71832  -32.358834 -117.722649   -1.261795
-0.006194   -0.303487   -52.518775
 0.85916  -32.358834 -117.722649   -1.261795
-0.006194   -0.200264   -30.941067
 1.00000  -32.358834 -117.722649   -1.261795
-0.006194   -0.610351   -15.778147

COMB DB-G1-3 ---------- MAX

REL DIST        P          V2          V3
       T        M2          M3
 0.43663   15.579359   48.346972    1.122412
 0.004087    1.206516   77.084652
 0.57748   15.579359   48.346972    1.122412
 0.004087    0.735944   58.472496
```

```
 0.71832    15.579359    48.346972     1.122412
 0.004087    0.265653    45.889333
0.85916     15.579359    48.346972     1.122412
 0.004087    0.254860    52.249123
1.00000     15.579359    48.346972     1.122412
 0.004087    0.836596    64.080488

COMB DB-G1-3 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -25.224602   -98.736514    -1.403961
-0.004926    -1.518420  -117.085753
0.57748   -25.224602   -98.736514    -1.403961
-0.004926    -0.929725   -79.144116
0.71832   -25.224602   -98.736514    -1.403961
-0.004926    -0.340963   -51.487559
0.85916   -25.224602   -98.736514    -1.403961
-0.004926    -0.218091   -28.759940
1.00000   -25.224602   -98.736514    -1.403961
-0.004926    -0.685254   -14.693763

COMB DB-G1-4 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    28.447252    58.222042     1.098424
 0.003553    1.181759    94.452688
0.57748    28.447252    58.222042     1.098424
 0.003553    0.721262    71.678277
0.71832    28.447252    58.222042     1.098424
 0.003553    0.260988    54.101249
0.85916    28.447252    58.222042     1.098424
 0.003553    0.244854    52.288938
1.00000    28.447252    58.222042     1.098424
 0.003553    0.805371    55.784195

COMB DB-G1-4 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -24.480832   -83.386922    -1.350564
-0.004523    -1.460021   -99.572137
0.57748   -24.480832   -83.386922    -1.350564
-0.004523    -0.893717   -67.479536
0.71832   -24.480832   -83.386922    -1.350564
-0.004523    -0.327398   -46.430993
0.85916   -24.480832   -83.386922    -1.350564
-0.004523    -0.210568   -31.633677
1.00000   -24.480832   -83.386922    -1.350564
-0.004523    -0.668253   -24.634119

COMB DB-G2-1 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663     0.148252    22.063363     0.301350
 0.003417    0.319235    39.653799
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2057

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P           V2          V3
         T          M2          M3
0.57748     0.148252    22.063363     0.301350
 0.003417    0.192982    33.358691
0.71832     0.148252    22.063363     0.301350
 0.003417    0.067203    35.152221
0.85916     0.148252    22.063363     0.301350
 0.003417    0.079421    54.318801
1.00000     0.148252    22.063363     0.301350
 0.003417    0.245927    77.907980

COMB DB-G2-1 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -33.254440   -71.642843    -0.417704
-0.005010    -0.454700   -43.489101
0.57748   -33.254440   -71.642843    -0.417704
-0.005010    -0.279580   -18.147191
0.71832   -33.254440   -71.642843    -0.417704
-0.005010    -0.104500    -5.104012
0.85916   -33.254440   -71.642843    -0.417704
-0.005010    -0.075525    -0.917525
1.00000   -33.254440   -71.642843    -0.417704
-0.005010    -0.197425    -4.170084

COMB DB-G2-2 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    12.632439    49.913725     0.532605
 0.003226    0.625445    81.621676
0.57748    12.632439    49.913725     0.532605
 0.003226    0.346024    62.865535
0.71832    12.632439    49.913725     0.532605
 0.003226    0.123154    51.261383
0.85916    12.632439    49.913725     0.532605
 0.003226    0.122067    60.912971
1.00000    12.632439    49.913725     0.532605
 0.003226    0.395510    73.222792

COMB DB-G2-2 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -27.602769   -64.299295    -0.671400
-0.005259    -0.730713   -42.273764
0.57748   -27.602769   -64.299295    -0.671400
-0.005259    -0.449213   -19.204314
0.71832   -27.602769   -64.299295    -0.671400
-0.005259    -0.167819    -9.259649
0.85916   -27.602769   -64.299295    -0.671400
-0.005259    -0.334254    -6.741003
1.00000   -27.602769   -64.299295    -0.671400
-0.005259    -0.334582   -14.060615

COMB DB-G2-3 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    18.380166    72.298640     0.954564
 0.003048    1.025802   130.661105
0.57748    18.380166    72.298640     0.954564
 0.003048    0.625620   101.950260
0.71832    18.380166    72.298640     0.954564
 0.003048    0.225379    78.615135
0.85916    18.380166    72.298640     0.954564
 0.003048    0.215327    71.344052
1.00000    18.380166    72.298640     0.954564
 0.003048    0.712439    66.543745

COMB DB-G2-3 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -37.778250   -74.449502    -1.199128
-0.004232    -1.298896   -80.619138
0.57748   -37.778250   -74.449502    -1.199128
-0.004232    -0.796114   -52.258706
0.71832   -37.778250   -74.449502    -1.199128
-0.004232    -0.293389   -33.596633
0.85916   -37.778250   -74.449502    -1.199128
-0.004232    -0.185270   -20.993188
1.00000   -37.778250   -74.449502    -1.199128
-0.004232    -0.582730   -17.127151
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2058

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    19.532254    73.717941     0.954970
 0.002762    1.027100   135.787536
0.57748    19.532254    73.717941     0.954970
 0.002762    0.626723   106.177108
0.71832    19.532254    73.717941     0.954970
 0.002762    0.226541    80.975630
0.85916    19.532254    73.717941     0.954970
 0.002762    0.213816    69.331397
1.00000    19.532254    73.717941     0.954970
 0.002762    0.707750    59.676294

COMB DB-G2-4 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -36.126616   -63.107506    -1.189226
-0.003957    -1.287014   -69.311467
0.57748   -36.126616   -63.107506    -1.189226
-0.003957    -0.768365   -45.490322
0.71832   -36.126616   -63.107506    -1.189226
-0.003957    -0.289741   -31.694153
0.85916   -36.126616   -63.107506    -1.189226
-0.003957    -0.182846   -22.705105
1.00000   -36.126616   -63.107506    -1.189226
-0.003957    -0.580917   -20.939777

COMB DB-G3-1 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663     2.739401    18.221573     0.243221
 0.000345    0.262164    38.673461
0.57748     2.739401    18.221573     0.243221
 0.000345    0.160178    31.071277
0.71832     2.739401    18.221573     0.243221
 0.000345    0.058117    23.499070
0.85916     2.739401    18.221573     0.243221
 0.000345    0.054363    15.979785
1.00000     2.739401    18.221573     0.243221
 0.000345    0.181078    8.628513

COMB DB-G3-1 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663    -8.797645    -2.027649    -0.302010
-0.000646    -0.325489    -6.733506
0.57748    -8.797645    -2.027649    -0.302010
-0.000646    -0.198847    -6.492598
0.71832    -8.797645    -2.027649    -0.302010
-0.000646    -0.072191    -6.441895
0.85916    -8.797645    -2.027649    -0.302010
-0.000646    -0.043844    -6.699863
1.00000    -8.797645    -2.027649    -0.302010
-0.000646    -0.145851    -7.229112

COMB DB-G3-2 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    25.285620    43.113543     0.444179
 0.000576    0.479296    77.124796
0.57748    25.285620    43.113543     0.444179
 0.000576    0.293054    59.598111
0.71832    25.285620    43.113543     0.444179
 0.000576    0.106846    42.542048
0.85916    25.285620    43.113543     0.444179
 0.000576    0.093328    26.586742
1.00000    25.285620    43.113543     0.444179
 0.000576    0.311779    12.744278

COMB DB-G3-2 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -12.417400    -4.761547    -0.521527
-0.001339    -0.562997    -7.892344
0.57748   -12.417400    -4.761547    -0.521527
-0.001339    -0.344306    -7.928724
0.71832   -12.417400    -4.761547    -0.521527
-0.001339    -0.125624    -7.963167
0.85916   -12.417400    -4.761547    -0.521527
-0.001339    -0.080099   -16.892081
1.00000   -12.417400    -4.761547    -0.521527
-0.001339    -0.266195   -24.881179
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2059

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    12.455779    55.572792     0.643346
 0.000602    0.691201    99.166310
0.57748    12.455779    55.572792     0.643346
 0.000602    0.421465    76.289411
0.71832    12.455779    55.572792     0.643346
 0.000602    0.151761    54.905493
0.85916    12.455779    55.572792     0.643346
 0.000602    0.135549    39.532774
1.00000    12.455779    55.572792     0.643346
 0.000602    0.461301    26.629984

COMB DB-G3-3 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -19.107788   -21.151223    -0.778013
-0.001805    -0.843681   -25.282154
0.57748   -19.107788   -21.151223    -0.778013
-0.001805    -0.517474   -18.365653
0.71832   -19.107788   -21.151223    -0.778013
-0.001805    -0.191336   -13.802353
0.85916   -19.107788   -21.151223    -0.778013
-0.001805    -0.179038   -17.325531
1.00000   -19.107788   -21.151223    -0.778013
-0.001805    -0.388651   -17.020430

COMB DB-G3-4 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    12.921642    75.997955     0.855342
 0.002894    0.918955   144.356595
0.57748    12.921642    75.997955     0.855342
 0.002894    0.560368   114.009973
0.71832    12.921642    75.997955     0.855342
 0.002894    0.201782    88.737308
0.85916    12.921642    75.997955     0.855342
 0.002894    0.194179    78.638676
1.00000    12.921642    75.997955     0.855342
 0.002894    0.640988    70.513402

COMB DB-G3-4 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -42.424917   -58.949054    -1.078720
-0.004430    -1.168418   -55.300726
0.57748   -42.424917   -58.949054    -1.078720
-0.004430    -0.716108   -34.703585
0.71832   -42.424917   -58.949054    -1.078720
-0.004430    -0.263835   -23.371272
0.85916   -42.424917   -58.949054    -1.078720
-0.004430    -0.167162   -17.434626
1.00000   -42.424917   -58.949054    -1.078720
-0.004430    -0.523067   -19.067237

COMB DL-G1-1 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    38.498855     4.250710     1.136927
 0.001437    1.230749    4.864342
0.57748    38.498855     4.250710     1.136927
 0.001437    0.753319    3.863825
0.71832    38.498855     4.250710     1.136927
 0.001437    0.276882    2.886778
0.85916    38.498855     4.250710     1.136927
 0.001437    0.239927    2.001183
1.00000    38.498855     4.250710     1.136927
 0.001437    0.790753    1.281980

COMB DL-G1-1 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663    -3.483720   -70.089075    -1.311454
-0.000462    -1.409087  -140.399133
0.57748    -3.483720   -70.089075    -1.311454
-0.000462    -0.859134  -111.266406
0.71832    -3.483720   -70.089075    -1.311454
-0.000462    -0.309235   -82.154774
0.85916    -3.483720   -70.089075    -1.311454
-0.000462    -0.198720   -53.234388
1.00000    -3.483720   -70.089075    -1.311454
-0.000462    -0.675237   -25.787038
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2060

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    35.168087    30.880475     1.733263
 0.005183    1.863029    53.979177
0.57748    35.168087    30.880475     1.733263
 0.005183    1.135670    43.150033
0.71832    35.168087    30.880475     1.733263
 0.005183    0.411759    42.252605
0.85916    35.168087    30.880475     1.733263
 0.005183    0.362848    61.911846
1.00000    35.168087    30.880475     1.733263
 0.005183    1.161877    86.746314

COMB DL-G1-2 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -41.271650  -144.130610    -1.933029
-0.005963    -2.081104  -185.187486
0.57748   -41.271650  -144.130610    -1.933029
-0.005963    -1.270324  -125.721648
0.71832   -41.271650  -144.130610    -1.933029
-0.005963    -0.461978   -84.019211
0.85916   -41.271650  -144.130610    -1.933029
-0.005963    -0.332392   -52.026778
1.00000   -41.271650  -144.130610    -1.933029
-0.005963    -1.055587   -27.603635

COMB DL-G1-3 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    33.116555    59.984627     1.877325
 0.003958    2.019780   106.256822
0.57748    33.116555    59.984627     1.877325
 0.003958    1.231753    82.491272
0.71832    33.116555    59.984627     1.877325
 0.003958    0.446498    65.904052
0.85916    33.116555    59.984627     1.877325
 0.003958    0.384394    65.504463
1.00000    33.116555    59.984627     1.877325
 0.003958    1.262141    70.877724

COMB DL-G1-3 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -36.703991  -122.006480    -2.111332
-0.004845    -2.279236  -167.361805
0.57748   -36.703991  -122.006480    -2.111332
-0.004845    -1.393511  -116.914476
0.71832   -36.703991  -122.006480    -2.111332
-0.004845    -0.507770   -79.288195
0.85916   -36.703991  -122.006480    -2.111332
-0.004845    -0.350566   -48.141503
1.00000   -36.703991  -122.006480    -2.111332
-0.004845    -1.135423   -25.317183

COMB DL-G1-4 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    42.683828    81.272475     1.812109
 0.003423    1.950808   136.125544
0.57748    42.683828    81.272475     1.812109
 0.003423    1.191148   103.549936
0.71832    42.683828    81.272475     1.812109
 0.003423    0.432080    77.667745
0.85916    42.683828    81.272475     1.812109
 0.003423    0.375002    66.371565
1.00000    42.683828    81.272475     1.812109
 0.003423    1.231782    61.744560

COMB DL-G1-4 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -35.031945  -102.888688    -2.058723
-0.004451    -2.220952  -141.804482
0.57748   -35.031945  -102.888688    -2.058723
-0.004451    -1.357278   -99.589327
0.71832   -35.031945  -102.888688    -2.058723
-0.004451    -0.495127   -69.755611
0.85916   -35.031945  -102.888688    -2.058723
-0.004451    -0.335505   -46.670469
1.00000   -35.031945  -102.888688    -2.058723
-0.004451    -1.093063   -32.716732
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2061

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663     0.103083    25.604120     0.550281
 0.002552    0.582357    53.571190
0.57748     0.103083    25.604120     0.550281
 0.002552    0.351826    44.856620
0.71832     0.103083    25.604120     0.550281
 0.002552    0.121311    43.150033
0.85916     0.103083    25.604120     0.550281
 0.002552    0.106552    57.462408
1.00000     0.103083    25.604120     0.550281
 0.002552    0.336967    74.892207

COMB DL-G2-1 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -43.718488   -63.325999    -0.570007
-0.004082    -0.619565   -44.093886
0.57748   -43.718488   -63.325999    -0.570007
-0.004082    -0.380300   -18.398087
0.71832   -43.718488   -63.325999    -0.570007
-0.004082    -0.142590    -5.248410
0.85916   -43.718488   -63.325999    -0.570007
-0.004082    -0.120275    -0.725590
1.00000   -43.718488   -63.325999    -0.570007
-0.004082    -0.348525    -3.913663

COMB DL-G2-2 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    12.428552    70.537243     0.865255
 0.002478    0.924340   123.621733
0.57748    12.428552    70.537243     0.865255
 0.002478    0.561379    95.585366
0.71832    12.428552    70.537243     0.865255
 0.002478    0.200212    75.067082
0.85916    12.428552    70.537243     0.865255
 0.002478    0.174913    70.835703
1.00000    12.428552    70.537243     0.865255
 0.002478    0.571468    71.236229

COMB DL-G2-2 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -37.549886   -56.996533    -0.964395
-0.004443    -1.046042   -41.680586
0.57748   -37.549886   -56.996533    -0.964395
-0.004443    -0.641321   -18.803548
0.71832   -37.549886   -56.996533    -0.964395
-0.004443    -0.237830    -8.760823
0.85916   -37.549886   -56.996533    -0.964395
-0.004443    -0.172992    -6.017278
1.00000   -37.549886   -56.996533    -0.964395
-0.004443    -0.533104   -13.328277

COMB DL-G2-3 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    22.072545    86.943309     1.609257
 0.002405    1.728209   160.577791
0.57748    22.072545    86.943309     1.609257
 0.002405    1.053387   125.349938
0.71832    22.072545    86.943309     1.609257
 0.002405    0.379721    95.171374
0.85916    22.072545    86.943309     1.609257
 0.002405    0.318621    76.580722
1.00000    22.072545    86.943309     1.609257
 0.002405    1.064678    62.589629

COMB DL-G2-3 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -45.331322   -78.397789    -1.789639
-0.003397    -1.936692   -99.731787
0.57748   -45.331322   -78.397789    -1.789639
-0.003397    -1.186110   -67.777848
0.71832   -45.331322   -78.397789    -1.789639
-0.003397    -0.436125   -44.394767
0.85916   -45.331322   -78.397789    -1.789639
-0.003397    -0.300610   -26.389624
1.00000   -45.331322   -78.397789    -1.789639
-0.003397    -0.973698   -17.509966
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2062

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    23.051481    95.310506     1.599446
 0.002193    1.718787   173.943529
0.57748    23.051481    95.310506     1.599446
 0.002193    1.047699   135.392704
0.71832    23.051481    95.310506     1.599446
 0.002193    0.378027   101.323883
0.85916    23.051481    95.310506     1.599446
 0.002193    0.317729    77.170166
1.00000    23.051481    95.310506     1.599446
 0.002193    1.063096    57.146059

COMB DL-G2-4 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -44.461454   -66.743774    -1.786750
-0.003259    -1.933075   -85.964168
0.57748   -44.461454   -66.743774    -1.786750
-0.003259    -1.183668   -59.500986
0.71832   -44.461454   -66.743774    -1.786750
-0.003259    -0.434983   -40.454380
0.85916   -44.461454   -66.743774    -1.786750
-0.003259    -0.296391   -26.957181
1.00000   -44.461454   -66.743774    -1.786750
-0.003259    -0.965119   -20.730876

COMB DL-G3-1 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663     3.225155    27.106187     0.407982
 0.000301    0.437491    54.835219
0.57748     3.225155    27.106187     0.407982
 0.000301    0.266377    43.677620
0.71832     3.225155    27.106187     0.407982
 0.000301    0.095848    32.620029
0.85916     3.225155    27.106187     0.407982
 0.000301    0.077889    21.788006
1.00000     3.225155    27.106187     0.407982
 0.000301    0.265388    11.478013

COMB DL-G3-1 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -16.401648    -3.196467    -0.447589
-0.000651    -0.484974    -8.489670
0.57748   -16.401648    -3.196467    -0.447589
-0.000651    -0.297320    -7.932667
0.71832   -16.401648    -3.196467    -0.447589
-0.000651    -0.109814    -6.947154
0.85916   -16.401648    -3.196467    -0.447589
-0.000651    -0.073853    -6.551786
1.00000   -16.401648    -3.196467    -0.447589
-0.000651    -0.244412    -6.732208

COMB DL-G3-2 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    26.408231    70.698342     0.710757
 0.000470    0.765502   118.574132
0.57748    26.408231    70.698342     0.710757
 0.000470    0.466673    89.795802
0.71832    26.408231    70.698342     0.710757
 0.000470    0.169391    61.912958
0.85916    26.408231    70.698342     0.710757
 0.000470    0.147277    36.521133
1.00000    26.408231    70.698342     0.710757
 0.000470    0.492435    15.037071

COMB DL-G3-2 ------------------ MIN

REL DIST            P           V2          V3
         T          M2          M3
0.43663   -19.278889    -4.876547    -0.824152
-0.001261    -0.889101   -10.696214
0.57748   -19.278889    -4.876547    -0.824152
-0.001261    -0.543581   -10.127944
0.71832   -19.278889    -4.876547    -0.824152
-0.001261    -0.198295   -11.148238
0.85916   -19.278889    -4.876547    -0.824152
-0.001261    -0.127157   -15.321485
1.00000   -19.278889    -4.876547    -0.824152
-0.001261    -0.424262   -24.118932
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2063

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST            P           V2          V3
         T          M2          M3
0.43663    15.081622    83.756490     1.005385
 0.000352    1.079770   151.901513
0.57748    15.081622    83.756490     1.005385
 0.000352    0.657167   117.578565
0.71832    15.081622    83.756490     1.005385
 0.000352    0.236154    84.392870
0.85916    15.081622    83.756490     1.005385
 0.000352    0.193292    54.428683
1.00000    15.081622    83.756490     1.005385
 0.000352    0.667690    28.824210
```

```
COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.43663  -32.482021  -17.040019   -1.130620
-0.001436   -1.227736  -24.738828
0.57748  -32.482021  -17.040019   -1.130620
-0.001436   -0.753056  -19.044366
0.71832  -32.482021  -17.040019   -1.130620
-0.001436   -0.276969  -14.296930
0.85916  -32.482021  -17.040019   -1.130620
-0.001436   -0.181976  -11.669477
1.00000  -32.482021  -17.040019   -1.130620
-0.001436   -0.602131  -16.409705

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.43663   15.994089   97.418063    1.450524
 0.002087    1.555308  185.225701
0.57748   15.994089   97.418063    1.450524
 0.002087    0.946408  145.777525
0.71832   15.994089   97.418063    1.450524
 0.002087    0.339587  111.135298
0.85916   15.994089   97.418063    1.450524
 0.002087    0.282654   86.974468
1.00000   15.994089   97.418063    1.450524
 0.002087    0.948727   67.439692

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.43663  -54.939160  -55.712220   -1.599039
-0.003470   -1.732703  -62.859995
0.57748  -54.939160  -55.712220   -1.599039
-0.003470   -1.061657  -41.112569
0.71832  -54.939160  -55.712220   -1.599039
-0.003470   -0.392065  -27.146640
0.85916  -54.939160  -55.712220   -1.599039
-0.003470   -0.272839  -18.347829
1.00000  -54.939160  -55.712220   -1.599039
-0.003470   -0.878738  -18.269103

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.43663   28.447252   75.997955    1.122412
 0.005527    1.206516  144.356595
0.57748   28.447252   75.997955    1.122412
 0.005527    0.735944  114.009973
0.71832   28.447252   75.997955    1.122412
 0.005527    0.265653   88.737908
0.85916   28.447252   75.997955    1.122412
 0.005527    0.254860   78.638676
1.00000   28.447252   75.997955    1.122412
 0.005527    0.836596   81.730986

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.43663  -42.424917  -117.722649   -1.403961
-0.006194   -1.518420  -126.104547
0.57748  -42.424917  -117.722649   -1.403961
-0.006194   -0.929725   -81.895481
0.71832  -42.424917  -117.722649   -1.403961
-0.006194   -0.340963   -52.518775
0.85916  -42.424917  -117.722649   -1.403961
-0.006194   -0.218091   -31.633677
1.00000  -42.424917  -117.722649   -1.403961
-0.006194   -0.685254   -24.881179
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    2064

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.43663   42.683828   97.418063    1.877325
 0.005183    2.019780  185.225701
0.57748   42.683828   97.418063    1.877325
 0.005183    1.231753  145.777525
0.71832   42.683828   97.418063    1.877325
 0.005183    0.446498  111.135298
0.85916   42.683828   97.418063    1.877325
 0.005183    0.384394   86.974468
1.00000   42.683828   97.418063    1.877325
 0.005183    1.262141   86.746314

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.43663  -54.939160  -144.130610   -2.111332
-0.005963   -2.279236  -185.187486
0.57748  -54.939160  -144.130610   -2.111332
-0.005963   -1.393511  -125.721648
0.71832  -54.939160  -144.130610   -2.111332
-0.005963   -0.509270   -84.019211
0.85916  -54.939160  -144.130610   -2.111332
-0.005963   -0.350566   -53.234388
1.00000  -54.939160  -144.130610   -2.111332
-0.005963   -1.135423   -32.716732

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.43663   42.683828   97.418063    1.877325
 0.005527    2.019780  185.225701
0.57748   42.683828   97.418063    1.877325
 0.005527    1.231753  145.777525
0.71832   42.683828   97.418063    1.877325
 0.005527    0.446498  111.135298
0.85916   42.683828   97.418063    1.877325
 0.005527    0.384394   86.974468
1.00000   42.683828   97.418063    1.877325
 0.005527    1.262141   86.746314

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.43663  -54.939160  -144.130610   -2.111332
-0.006194   -2.279236  -185.187486
0.57748  -54.939160  -144.130610   -2.111332
-0.006194   -1.393511  -125.721648
0.71832  -54.939160  -144.130610   -2.111332
-0.006194   -0.509270   -84.019211
0.85916  -54.939160  -144.130610   -2.111332
-0.006194   -0.350566   -53.234388
1.00000  -54.939160  -144.130610   -2.111332
-0.006194   -1.135423   -32.716732

COMB   DESIGN ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.43663   42.683828   97.418063    1.877325
 0.005527    2.019780  185.225701
0.57748   42.683828   97.418063    1.877325
 0.005527    1.231753  145.777525
0.71832   42.683828   97.418063    1.877325
 0.005527    0.446498  111.135298
0.85916   42.683828   97.418063    1.877325
 0.005527    0.384394   86.974468
1.00000   42.683828   97.418063    1.877325
 0.005527    1.262141   86.746314

COMB   DESIGN ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.43663  -54.939160  -144.130610   -2.111332
-0.006194   -2.279236  -185.187486
0.57748  -54.939160  -144.130610   -2.111332
-0.006194   -1.393511  -125.721648
0.71832  -54.939160  -144.130610   -2.111332
-0.006194   -0.509270   -84.019211
0.85916  -54.939160  -144.130610   -2.111332
-0.006194   -0.350566   -53.234388
1.00000  -54.939160  -144.130610   -2.111332
-0.006194   -0.267478   -52.841528

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   12.651702   94.516328    0.475395
 0.004377    0.282650   73.398511
0.14085   12.651702   94.516328    0.475395
 0.004377    0.083919   53.617469
0.28169   12.651702   94.516328    0.475395
 0.004377    0.176638   37.556028
0.42254   12.651702   94.516328    0.475395
 0.004377    0.490239   40.956492
0.56339   12.651702   94.516328    0.475395
 0.004377    0.803894   49.135882

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -30.137476  -24.392326   -0.750352
-0.003652   -0.473060  -14.083419
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    2067

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
          T         M2         M3
0.14085  -30.137476  -24.392326   -0.750352
-0.003652   -0.159343  -26.564935
0.28169  -30.137476  -24.392326   -0.750352
-0.003652   -0.116455  -41.465144
0.42254  -30.137476  -24.392326   -0.750352
-0.003652   -0.315827  -68.651596
0.56339  -30.137476  -24.392326   -0.750352
-0.003652   -0.515134  -107.893606

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   18.494747  103.337396    0.901829
 0.004120    0.538014   66.666374
0.14085   18.494747  103.337396    0.901829
 0.004120    0.160398   50.691147
0.28169   18.494747  103.337396    0.901829
 0.004120    0.296978   50.318441
0.42254   18.494747  103.337396    0.901829
 0.004120    0.817088   64.542055
0.56339   18.494747  103.337396    0.901829
 0.004120    1.337206   82.328797

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -39.551971  -46.284174   -1.241978
-0.003078   -0.759093  -17.131167
0.14085  -39.551971  -46.284174   -1.241978
-0.003078   -0.238865  -24.912398
0.28169  -39.551971  -46.284174   -1.241978
-0.003078   -0.624709  -50.140410
0.42254  -39.551971  -46.284174   -1.241978
-0.003078   -0.596911  -84.457892
0.56339  -39.551971  -46.284174   -1.241978
-0.003078   -0.975062  -127.470675

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   19.626429   99.700247    0.906807
 0.003723    0.541295   59.782878
0.14085   19.626429   99.700247    0.906807
 0.003723    0.161468   42.281519
0.28169   19.626429   99.700247    0.906807
 0.003723    0.291986   42.200883
0.42254   19.626429   99.700247    0.906807
 0.003723    0.802829   54.420869
0.56339   19.626429   99.700247    0.906807
 0.003723    1.313665   69.625261

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -37.621478  -39.507303   -1.219558
-0.003203   -0.742926  -20.943110
0.14085  -37.621478  -39.507303   -1.219558
-0.003203   -0.231960  -28.888184
0.28169  -37.621478  -39.507303   -1.219558
-0.003203   -0.219605  -51.497309
0.42254  -37.621478  -39.507303   -1.219558
-0.003203   -0.599860  -82.373861
0.56339  -37.621478  -39.507303   -1.219558
-0.003203   -0.980061  -123.922741

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000    2.801407   18.288442    0.221644
 0.000467    0.113547    8.633736
0.14085    2.801407   18.288442    0.221644
 0.000467    0.038739    4.460830
0.28169    2.801407   18.288442    0.221644
 0.000467    0.070884    3.762766
0.42254    2.801407   18.288442    0.221644
 0.000467    0.103074    3.910137
0.56339    2.801407   18.288442    0.221644
 0.000467    0.317551    4.322979
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    2068

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000   -8.807026   -1.975713   -0.294083
-0.000948   -0.175786   -7.229181
0.14085   -8.807026   -1.975713   -0.294083
-0.000948   -0.052351   -8.071441
0.28169   -8.807026   -1.975713   -0.294083
-0.000948   -0.054380   -9.499944
0.42254   -8.807026   -1.975713   -0.294083
-0.000948   -0.147332   -15.159016
0.56339   -8.807026   -1.975713   -0.294083
-0.000948   -0.240262   -22.800990

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   25.341058   45.416211    0.431421
 0.000765    0.258769   12.761501
0.14085   25.341058   45.416211    0.431421
 0.000765    0.079503    3.743291
0.28169   25.341058   45.416211    0.431421
 0.000765    0.123707    2.209729
0.42254   25.341058   45.416211    0.431421
 0.000765    0.337882    3.230385
0.56339   25.341058   45.416211    0.431421
 0.000765    0.552039    4.450561

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -12.525872   -3.105789   -0.510828
-0.001766   -0.305607  -24.880705
0.14085  -12.525872   -3.105789   -0.510828
-0.001766   -0.091313  -33.880819
0.28169  -12.525872   -3.105789   -0.510828
-0.001766   -0.103707  -43.456291
0.42254  -12.525872   -3.105789   -0.510828
-0.001766   -0.284557  -58.835344
0.56339  -12.525872   -3.105789   -0.510828
-0.001766   -0.465439  -77.586512

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   12.537326   58.625097    0.579190
 0.000803    0.343868   26.653883
0.14085   12.537326   58.625097    0.579190
 0.000803    0.101460   21.813650
0.28169   12.537326   58.625097    0.579190
 0.000803    0.196624   26.128950
0.42254   12.537326   58.625097    0.579190
 0.000803    0.543105   33.520792
0.56339   12.537326   58.625097    0.579190
 0.000803    0.889595   41.227592

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -19.354966  -18.907420   -0.826426
-0.001630   -0.497912  -17.015319
0.14085  -19.354966  -18.907420   -0.826426
-0.001630   -0.151290  -31.469054
0.28169  -19.354966  -18.907420   -0.826426
-0.001630   -0.142211  -46.890920
0.42254  -19.354966  -18.907420   -0.826426
-0.001630   -0.385120  -67.916293
0.56339  -19.354966  -18.907420   -0.826426
-0.001630   -0.627973  -92.309380

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   13.044794  106.780126    0.796356
 0.004016    0.474422   70.638883
0.14085   13.044794  106.780126    0.796356
 0.004016    0.140846   45.267763
0.28169   13.044794  106.780126    0.796356
 0.004016    0.267975   37.660530
0.42254   13.044794  106.780126    0.796356
 0.004016    0.738624   45.572819
0.56339   13.044794  106.780126    0.796356
 0.004016    1.209250   57.039612
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    2069

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -44.186903  -31.047414   -1.123935
-0.003583   -0.688896  -19.077209
0.14085  -44.186903  -31.047414   -1.123935
-0.003583   -0.218109  -27.103735
0.28169  -44.186903  -31.047414   -1.123935
-0.003583   -0.193735  -46.700538
0.42254  -44.186903  -31.047414   -1.123935
-0.003583   -0.527733  -80.737150
0.56339  -44.186903  -31.047414   -1.123935
-0.003583   -0.861656  -125.240561

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   38.618911    4.165866    1.219409
 0.001412    0.733903    1.278473
0.14085   38.618911    4.165866    1.219409
 0.001412    0.222907   10.909314
0.28169   38.618911    4.165866    1.219409
 0.001412    0.289537   38.677242
0.42254   38.618911    4.165866    1.219409
 0.001412    0.778292   67.390662
0.56339   38.618911    4.165866    1.219409
 0.001412    1.267088   96.331682

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000   -3.644712  -69.617216   -1.165613
-0.000524   -0.688243  -25.768169
0.14085   -3.644712  -69.617216   -1.165613
-0.000524   -0.198692  -11.204462
0.28169   -3.644712  -69.617216   -1.165613
-0.000524   -0.287498  -11.621191
0.42254   -3.644712  -69.617216   -1.165613
-0.000524   -0.798706  -12.913489
0.56339   -3.644712  -69.617216   -1.165613
-0.000524   -1.310556  -14.403947

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   35.315914   87.444782    1.704754
 0.007239    1.020424   86.793740
0.14085   35.315914   87.444782    1.704754
 0.007239    0.306936   70.693339
0.28169   35.315914   87.444782    1.704754
 0.007239    0.455305   74.034851
0.42254   35.315914   87.444782    1.704754
 0.007239    1.251816  102.052815
0.56339   35.315914   87.444782    1.704754
 0.007239    2.048739  137.957573

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -43.677355  -90.385442   -1.907573
-0.004317   -1.167176  -27.618034
0.14085  -43.677355  -90.385442   -1.907573
-0.004317   -0.368025  -12.001972
0.28169  -43.677355  -90.385442   -1.907573
-0.004317   -0.408052  -15.610494
0.42254  -43.677355  -90.385442   -1.907573
-0.004317   -1.122396  -38.605823
0.56339  -43.677355  -90.385442   -1.907573
-0.004317   -1.837749  -74.210935

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   33.269738  100.130410    1.842442
 0.005435    1.100757   70.926606
0.14085   33.269738  100.130410    1.842442
 0.005435    0.329455   58.885564
0.28169   33.269738  100.130410    1.842442
 0.005435    0.507614   57.314437
0.42254   33.269738  100.130410    1.842442
 0.005435    1.396626   95.155189
0.56339   33.269738  100.130410    1.842442
 0.005435    2.285903  128.806645
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    2070

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

0.71832  -54.939160  -144.130610   -2.111332
-0.006194   -0.509270   -84.019211
0.85916  -54.939160  -144.130610   -2.111332
-0.006194   -0.350566   -53.234388
1.00000  -54.939160  -144.130610   -2.111332
-0.006194   -1.135423   -32.716732
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    2065

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM    181 ================== LENGTH
=     2.977454

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   17.053094    2.440332    0.685243
 0.001282    0.410137    1.161319
0.14085   17.053094    2.440332    0.685243
 0.001282    0.122798   10.210932
0.28169   17.053094    2.440332    0.685243
 0.001282    0.189794   28.600127
0.42254   17.053094    2.440332    0.685243
 0.001282    0.514882   47.156138
0.56339   17.053094    2.440332    0.685243
 0.001282    0.839956   65.725058

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000   -2.875533  -44.333514   -0.775239
-0.000537   -0.460576  -13.254244
0.14085   -2.875533  -44.333514   -0.775239
-0.000537   -0.135422  -13.465512
0.28169   -2.875533  -44.333514   -0.775239
-0.000537   -0.164590  -13.872564
0.42254   -2.875533  -44.333514   -0.775239
-0.000537   -0.451963  -14.382733
0.56339   -2.875533  -44.333514   -0.775239
-0.000537   -0.739329  -15.328050

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   17.373338   86.189674    0.957616
 0.007099    0.572513   81.942085
0.14085   17.373338   86.189674    0.957616
 0.007099    0.170969   67.619655
0.28169   17.373338   86.189674    0.957616
 0.007099    0.298584   61.993360
0.42254   17.373338   86.189674    0.957616
 0.007099    0.816696   80.886458
0.56339   17.373338   86.189674    0.957616
 0.007099    1.334783  106.024897

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -35.645677  -66.046264   -1.238494
-0.004627   -0.766216  -15.801523
0.14085  -35.645677  -66.046264   -1.238494
-0.004627   -0.248110  -13.845414
0.28169  -35.645677  -66.046264   -1.238494
-0.004627   -0.230685  -18.846306
0.42254  -35.645677  -66.046264   -1.238494
-0.004627   -0.632273  -39.390819
0.56339  -35.645677  -66.046264   -1.238494
-0.004627   -1.033856  -75.134433

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   15.712158   86.782127    1.063765
 0.005133    0.634103   64.229728
0.14085   15.712158   86.782127    1.063765
 0.005133    0.187905   56.944508
0.28169   15.712158   86.782127    1.063765
 0.005133    0.341308   60.127705
0.42254   15.712158   86.782127    1.063765
 0.005133    0.936685   80.691295
0.56339   15.712158   86.782127    1.063765
 0.005133    1.532073  105.544348

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -27.556892  -63.730921   -1.421816
-0.003526   -0.868931   -17.700110
0.14085  -27.556892  -63.730921   -1.421816
-0.003526   -0.273439   -23.178401
0.28169  -27.556892  -63.730921   -1.421816
-0.003526   -0.258098   -38.267363
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    2066

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
          T         M2         M3
0.42254  -27.556892  -63.730921   -1.421816
-0.003526   -0.704250  -63.976098
0.56339  -27.556892  -63.730921   -1.421816
-0.003526   -1.150323  -100.074529

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000   28.556842   90.349513    1.056034
 0.004469    0.631255   55.912380
0.14085   28.556842   90.349513    1.056034
 0.004469    0.188932   47.841968
0.28169   28.556842   90.349513    1.056034
 0.004469    0.326693   51.113233
0.42254   28.556842   90.349513    1.056034
 0.004469    0.895630   68.871657
0.56339   28.556842   90.349513    1.056034
 0.004469    1.464576   90.115400

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
          T         M2         M3
0.00000  -26.436389  -54.353099   -1.358446
-0.003544   -0.827407   -24.638228
0.14085  -26.436389  -54.353099   -1.358446
-0.003544   -0.258371   -36.759387
0.28169  -26.436389  -54.353099   -1.358446
-0.003544   -0.254911   -54.384675
0.42254  -26.436389  -54.353099   -1.358446
-0.003544   -0.699724   -81.008518
0.56339  -26.436389  -54.353099   -1.358446
-0.003544   -1.140522  -117.154579

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
          T         M2         M3
0.00000    0.155559   69.630573    0.245898
 0.004642    0.145092   78.085093
0.14085    0.155559   69.630573    0.245898
 0.004642    0.041985   62.483987
0.28169    0.155559   69.630573    0.245898
 0.004642    0.111414   47.016403
0.42254    0.155559   69.630573    0.245898
 0.004642    0.311263   51.712503
0.56339    0.155559   69.630573    0.245898
 0.004642    0.511137   61.542376

COMB DB-G2-1 ------------------- MIN
```

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-38.457668	-83.946867	-2.124778
-0.003412	-1.289436	-25.320817	
0.14085	-38.457668	-83.946867	-2.124778
-0.003412	-0.398263	-22.833686	
0.28169	-38.457668	-83.946867	-2.124778
-0.003412	-0.441410	-39.457127	
0.42254	-38.457668	-83.946867	-2.124778
-0.003412	-1.157782	-71.551909	
0.56339	-38.457668	-83.946867	-2.124778
-0.003412	-1.986571	-112.778411	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	42.817718	114.862330	1.806017
0.004694	1.080925	61.791054	
0.14085	42.817718	114.862330	1.806017
0.004694	0.324866	49.382239	
0.28169	42.817718	114.862330	1.806017
0.004694	0.491009	57.051436	
0.42254	42.817718	114.862330	1.806017
0.004694	1.348671	80.820571	
0.56339	42.817718	114.862330	1.806017
0.004694	2.206467	109.405028	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-36.527129	-71.311157	-2.049194
-0.003443	-1.239725	-32.718112	
0.14085	-36.527129	-71.311157	-2.049194
-0.003443	-0.380300	-41.126761	
0.28169	-36.527129	-71.311157	-2.049194
-0.003443	-0.430418	-67.571746	
0.42254	-36.527129	-71.311157	-2.049194
-0.003443	-1.187373	-106.870434	
0.56339	-36.527129	-71.311157	-2.049194
-0.003443	-1.945059	-153.753924	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.111440	65.399548	0.427881
0.003914	0.251064	74.932338	
0.14085	0.111440	65.399548	0.427881
0.003914	0.072660	59.194051	
0.28169	0.111440	65.399548	0.427881
0.003914	0.159466	45.310127	
0.42254	0.111440	65.399548	0.427881
0.003914	0.457985	48.620786	
0.56339	0.111440	65.399548	0.427881
0.003914	0.756587	58.153577	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-45.280368	-26.440913	-0.716881
-0.002576	-0.457262	-3.943990	
0.14085	-45.280368	-26.440913	-0.716881
-0.002576	-0.157722	-3.785572	
0.28169	-45.280368	-26.440913	-0.716881
-0.002576	-0.107281	-7.226361	
0.42254	-45.280368	-26.440913	-0.716881
-0.002576	-0.286335	-24.117948	
0.56339	-45.280368	-26.440913	-0.716881
-0.002576	-0.465593	-50.696932	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.445792	108.911611	0.780008
0.003782	0.463183	71.291223	
0.14085	12.445792	108.911611	0.780008
0.003782	0.137371	49.877593	
0.28169	12.445792	108.911611	0.780008
0.003782	0.252894	33.698828	
0.42254	12.445792	108.911611	0.780008
0.003782	0.711822	35.767825	
0.56339	12.445792	108.911611	0.780008
0.003782	1.171228	43.513329	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2071
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-39.108677	-21.661879	-1.098625
-0.002958	-0.682285	-13.352457	
0.14085	-39.108677	-21.661879	-1.098625
-0.002958	-0.222151	-30.279844	
0.28169	-39.108677	-21.661879	-1.098625
-0.002958	-0.188658	-51.899981	
0.42254	-39.108677	-21.661879	-1.098625
-0.002958	-0.515768	-88.204204	
0.56339	-39.108677	-21.661879	-1.098625
-0.002958	-0.843032	-133.139083	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.182787	111.254372	1.531048
0.003562	0.912949	62.627353	
0.14085	22.182787	111.254372	1.531048
0.003562	0.271806	49.717985	
0.28169	22.182787	111.254372	1.531048
0.003562	0.444100	54.735770	
0.42254	22.182787	111.254372	1.531048
0.003562	1.129655	73.025581	
0.56339	22.182787	111.254372	1.531048
0.003562	2.015410	95.272306	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-46.435786	-55.447269	-1.875714
-0.002445	-1.137808	-17.508589	
0.14085	-46.435786	-55.447269	-1.875714
-0.002445	-0.350542	-28.424721	
0.28169	-46.435786	-55.447269	-1.875714
-0.002445	-0.368568	-57.989347	
0.42254	-46.435786	-55.447269	-1.875714
-0.002445	-1.010608	-98.281502	
0.56339	-46.435786	-55.447269	-1.875714
-0.002445	-1.652666	-144.330215	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.171142	115.760251	1.527287
0.003234	0.910319	57.184008	
0.14085	23.171142	115.760251	1.527287
0.003234	0.270735	41.503680	
0.28169	23.171142	115.760251	1.527287
0.003234	0.441547	46.136543	
0.42254	23.171142	115.760251	1.527287
0.003234	1.220543	61.849024	
0.56339	23.171142	115.760251	1.527287
0.003234	2.000007	80.887474	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-45.438854	-47.462827	-1.860281
-0.002697	-1.125711	-20.729880	
0.14085	-45.438854	-47.462827	-1.860281
-0.002697	-0.345282	-34.076919	
0.28169	-45.438854	-47.462827	-1.860281
-0.002697	-0.367153	-66.752007	
0.42254	-45.438854	-47.462827	-1.860281
-0.002697	-1.007576	-108.539240	
0.56339	-45.438854	-47.462827	-1.860281
-0.002697	-1.648440	-156.579852	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.301215	27.134569	0.363635
0.000440	0.213985	11.486067	
0.14085	3.301215	27.134569	0.363635
0.000440	0.062197	4.467089	
0.28169	3.301215	27.134569	0.363635
0.000440	0.112451	3.878701	
0.42254	3.301215	27.134569	0.363635
0.000440	0.311377	4.760692	
0.56339	3.301215	27.134569	0.363635
0.000440	0.510402	5.848317	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2072
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.473287	-3.183090	-0.474698
-0.000993	-0.285407	-6.734277	
0.14085	-16.473287	-3.183090	-0.474698
-0.000993	-0.086313	-8.949049	
0.28169	-16.473287	-3.183090	-0.474698
-0.000993	-0.088975	-16.344341	
0.42254	-16.473287	-3.183090	-0.474698
-0.000993	-0.240851	-26.791798	
0.56339	-16.473287	-3.183090	-0.474698
-0.000993	-0.394137	-38.024319	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.495400	72.332325	0.709581
0.000705	0.424543	15.054163	
0.14085	26.495400	72.332325	0.709581
0.000705	0.128632	3.716851	
0.28169	26.495400	72.332325	0.709581
0.000705	0.196992	2.941188	
0.42254	26.495400	72.332325	0.709581
0.000705	0.540775	4.046422	
0.56339	26.495400	72.332325	0.709581
0.000705	0.884539	5.555777	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.439833	-3.790507	-0.820136
-0.001737	-0.490643	-24.117751	
0.14085	-19.439833	-3.790507	-0.820136
-0.001737	-0.146691	-41.685965	
0.28169	-19.439833	-3.790507	-0.820136
-0.001737	-0.167869	-67.532209	
0.42254	-19.439833	-3.790507	-0.820136
-0.001737	-0.464906	-96.144483	
0.56339	-19.439833	-3.790507	-0.820136
-0.001737	-0.763104	-126.847820	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.171971	84.057947	0.931379
0.000531	0.551688	28.852454	
0.14085	15.171971	84.057947	0.931379
0.000531	0.162615	20.162540	
0.28169	15.171971	84.057947	0.931379
0.000531	0.289770	23.255735	
0.42254	15.171971	84.057947	0.931379
0.000531	0.804793	29.922757	
0.56339	15.171971	84.057947	0.931379
0.000531	1.320400	36.971228	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-32.617705	-17.486613	-1.227670
-0.001461	-0.737992	-16.407568	
0.14085	-32.617705	-17.486613	-1.227670
-0.001461	-0.222966	-36.844283	
0.28169	-32.617705	-17.486613	-1.227670
-0.001461	-0.224764	-66.176135	
0.42254	-32.617705	-17.486613	-1.227670
-0.001461	-0.615051	-99.988927	
0.56339	-32.617705	-17.486613	-1.227670
-0.001461	-1.006476	-134.940074	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.124886	119.610026	1.332627
0.003252	0.791199	67.482681	
0.14085	16.124886	119.610026	1.332627
0.003252	0.233835	50.106506	
0.28169	16.124886	119.610026	1.332627
0.003252	0.405275	41.052500	
0.42254	16.124886	119.610026	1.332627
0.003252	1.127654	51.123219	
0.56339	16.124886	119.610026	1.332627
0.003252	1.850775	64.729823	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2073
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-55.973403	-34.922625	-1.725759
-0.002895	-1.049751	-18.277245	
0.14085	-55.973403	-34.922625	-1.725759
-0.002895	-0.326196	-31.502848	
0.28169	-55.973403	-34.922625	-1.725759
-0.002895	-0.322495	-62.390501	
0.42254	-55.973403	-34.922625	-1.725759
-0.002895	-0.881097	-105.910819	
0.56339	-55.973403	-34.922625	-1.725759
-0.002895	-1.440330	-155.439253	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	28.556842	106.780126	1.063765
0.007099	0.634103	81.942085	
0.14085	28.556842	106.780126	1.063765
0.007099	0.188932	67.619655	
0.28169	28.556842	106.780126	1.063765
0.007099	0.341308	61.993360	
0.42254	28.556842	106.780126	1.063765
0.007099	0.936685	80.886458	
0.56339	28.556842	106.780126	1.063765
0.007099	1.532073	106.024897	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-44.186903	-66.046264	-1.421816
-0.004627	-0.868931	-24.880705	
0.14085	-44.186903	-66.046264	-1.421816
-0.004627	-0.273439	-36.759387	
0.28169	-44.186903	-66.046264	-1.421816
-0.004627	-0.258098	-54.384675	
0.42254	-44.186903	-66.046264	-1.421816
-0.004627	-0.704250	-84.457892	
0.56339	-44.186903	-66.046264	-1.421816
-0.004627	-1.150323	-127.470675	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	42.817718	119.610026	1.842442
0.007239	1.100757	86.793740	
0.14085	42.817718	119.610026	1.842442
0.007239	0.328455	70.693339	
0.28169	42.817718	119.610026	1.842442
0.007239	0.507614	74.034851	
0.42254	42.817718	119.610026	1.842442
0.007239	1.396626	102.052815	
0.56339	42.817718	119.610026	1.842442
0.007239	2.285903	137.957573	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-55.973403	-90.385442	-2.124778
-0.004317	-1.289436	-32.718112	
0.14085	-55.973403	-90.385442	-2.124778
-0.004317	-0.398263	-41.685965	
0.28169	-55.973403	-90.385442	-2.124778
-0.004317	-0.441410	-67.571746	
0.42254	-55.973403	-90.385442	-2.124778
-0.004317	-1.213782	-108.539240	
0.56339	-55.973403	-90.385442	-2.124778
-0.004317	-1.986571	-156.579852	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	42.817718	119.610026	1.842442
0.007239	1.100757	86.793740	
0.14085	42.817718	119.610026	1.842442
0.007239	0.328455	70.693339	
0.28169	42.817718	119.610026	1.842442
0.007239	0.507614	74.034851	
0.42254	42.817718	119.610026	1.842442
0.007239	1.396626	102.052815	
0.56339	42.817718	119.610026	1.842442
0.007239	2.285903	137.957573	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2074
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-55.973403	-90.385442	-2.124778
-0.004627	-1.289436	-32.718112	
0.14085	-55.973403	-90.385442	-2.124778
-0.004627	-0.398263	-41.685965	
0.28169	-55.973403	-90.385442	-2.124778
-0.004627	-0.441410	-67.571746	
0.42254	-55.973403	-90.385442	-2.124778
-0.004627	-1.213782	-108.539240	
0.56339	-55.973403	-90.385442	-2.124778
-0.004627	-1.986571	-156.579852	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	42.817718	119.610026	1.842442
0.007239	1.100757	86.793740	
0.14085	42.817718	119.610026	1.842442
0.007239	0.328455	70.693339	
0.28169	42.817718	119.610026	1.842442
0.007239	0.507614	74.034851	
0.42254	42.817718	119.610026	1.842442
0.007239	1.396626	102.052815	
0.56339	42.817718	119.610026	1.842442
0.007239	2.285903	137.957573	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-55.973403	-90.385442	-2.124778
-0.004627	-1.289436	-32.718112	
0.14085	-55.973403	-90.385442	-2.124778
-0.004627	-0.398263	-41.685965	
0.28169	-55.973403	-90.385442	-2.124778
-0.004627	-0.441410	-67.571746	
0.42254	-55.973403	-90.385442	-2.124778
-0.004627	-1.213782	-108.539240	
0.56339	-55.973403	-90.385442	-2.124778
-0.004627	-1.986571	-156.579852	

ELEM 182 ========== LENGTH = 2.977259

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	7.586720	37.317391	0.658826
0.001490	0.737235	44.022920	
0.57748	7.586720	37.317391	0.658826
0.001490	0.460983	28.445185	
0.71832	7.586720	37.317391	0.658826
0.001490	0.184800	12.995087	
0.85916	7.586720	37.317391	0.658826
0.001490	0.091055	2.429781	
1.00000	7.586720	37.317391	0.658826
0.001490	0.458532	1.460980	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-1.278209	-31.755162	-0.816825
-1.70E-05	-0.911515	-61.004507	
0.57748	-1.278209	-31.755162	-0.816825
-1.70E-05	-0.569009	-47.770972	
0.71832	-1.278209	-31.755162	-0.816825
-1.70E-05	-0.226764	-34.645419	
0.85916	-1.278209	-31.755162	-0.816825
-1.70E-05	-0.091483	-22.087743	
1.00000	-1.278209	-31.755162	-0.816825
-1.70E-05	-0.367809	-20.189142	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	8.132786	64.163735	0.924332
0.007693	1.033194	115.398725	
0.57748	8.132786	64.163735	0.924332
0.007693	0.645621	90.205774	
0.71832	8.132786	64.163735	0.924332
0.007693	0.258129	76.316990	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2075
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.85916	8.132786	64.163735	0.924332
0.007693	0.195927	82.804535	
1.00000	8.132786	64.163735	0.924332
0.007693	0.716054	102.186203	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-17.003060	-116.074280	-1.248409
-0.005846	-1.397125	-105.156435	
0.57748	-17.003060	-116.074280	-1.248409
-0.005846	-0.873670	-62.503832	
0.71832	-17.003060	-116.074280	-1.248409
-0.005846	-0.350261	-42.348377	
0.85916	-17.003060	-116.074280	-1.248409
-0.005846	-0.158649	-26.891522	
1.00000	-17.003060	-116.074280	-1.248409
-0.005846	-0.527953	-12.696245	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	9.328589	71.637999	0.975944
0.005580	1.089391	119.903798	
0.57748	9.328589	71.637999	0.975944
0.005580	0.680164	95.562951	
0.71832	9.328589	71.637999	0.975944
0.005580	0.270922	79.210438	
0.85916	9.328589	71.637999	0.975944
0.005580	0.204653	77.440867	
1.00000	9.328589	71.637999	0.975944
0.005580	0.785507	89.787891	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-13.649562	-124.384204	-1.390896
-0.004568	-1.560699	-133.444085	
0.57748	-13.649562	-124.384204	-1.390896
-0.004568	-0.977512	-85.658307	
0.71832	-13.649562	-124.384204	-1.390896
-0.004568	-0.394438	-53.364360	
0.85916	-13.649562	-124.384204	-1.390896
-0.004568	-0.157782	-23.822514	
1.00000	-13.649562	-124.384204	-1.390896
-0.004568	-0.554771	-14.789839	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	14.829657	71.956057	0.914803
0.004636	1.021289	123.000858	
0.57748	14.829657	71.956057	0.914803
0.004636	0.637706	97.565805	
0.71832	14.829657	71.956057	0.914803
0.004636	0.254101	78.819446	
0.85916	14.829657	71.956057	0.914803
0.004636	0.193335	72.313619	
1.00000	14.829657	71.956057	0.914803
0.004636	0.743828	77.955792	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-13.210416	-107.137703	-1.319697
-0.004285	-1.480647	-131.186161	
0.57748	-13.210416	-107.137703	-1.319697
-0.004285	-0.927324	-90.375857	
0.71832	-13.210416	-107.137703	-1.319697
-0.004285	-0.374092	-62.705254	
0.85916	-13.210416	-107.137703	-1.319697
-0.004285	-0.145984	-37.929242	
1.00000	-13.210416	-107.137703	-1.319697
-0.004285	-0.519138	-30.092700	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	0.383197	13.714008	0.228936
0.005073	0.253066	41.064059	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2076
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.57748	0.383197	13.714008	0.228936
0.005073	0.157091	38.511922	
0.71832	0.383197	13.714008	0.228936
0.005073	0.061166	45.813041	
0.85916	0.383197	13.714008	0.228936
0.005073	0.073544	70.843352	
1.00000	0.383197	13.714008	0.228936
0.005073	0.248146	104.549396	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-14.677420	-93.929316	-0.423218
-0.005148	-0.477840	-57.137170	
0.57748	-14.677420	-93.929316	-0.423218
-0.005148	-0.300402	-22.907065	
0.71832	-14.677420	-93.929316	-0.423218
-0.005148	-0.123022	-7.656567	
0.85916	-14.677420	-93.929316	-0.423218
-0.005148	-0.059402	-1.961532	
1.00000	-14.677420	-93.929316	-0.423218
-0.005148	-0.140019	-1.684826	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	7.989013	30.237989	0.372808
0.004722	0.414061	59.460086	
0.57748	7.989013	30.237989	0.372808
0.004722	0.257737	53.090978	
0.71832	7.989013	30.237989	0.372808
0.004722	0.101374	55.924447	
0.85916	7.989013	30.237989	0.372808
0.004722	0.103390	71.637999	
1.00000	7.989013	30.237989	0.372808
0.004722	0.378620	102.604901	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-12.091295	-108.928127	-0.665990
-0.005443	-0.753526	-92.898645	
0.57748	-12.091295	-108.928127	-0.665990
-0.005443	-0.474316	-52.574899	
0.71832	-12.091295	-108.928127	-0.665990
-0.005443	-0.195229	-30.151917	
0.85916	-12.091295	-108.928127	-0.665990
-0.005443	-0.077460	-11.476229	
1.00000	-12.091295	-108.928127	-0.665990
-0.005443	-0.219569	-14.602042	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	10.614453	79.025844	0.793142
0.004200	0.884697	153.488003	
0.57748	10.614453	79.025844	0.793142
0.004200	0.552121	126.001276	
0.71832	10.614453	79.025844	0.793142
0.004200	0.219506	105.156437	
0.85916	10.614453	79.025844	0.793142
0.004200	0.171891	96.391057	
1.00000	10.614453	79.025844	0.793142
0.004200	0.666536	94.921839	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-17.948988	-107.593020	-1.187040
-0.004049	-1.335125	-117.141903	
0.57748	-17.948988	-107.593020	-1.187040
-0.004049	-0.837441	-76.066436	

0.71832 -17.948988 -107.593020 -1.187040
-0.004049 -0.339864 -47.913265
0.85916 -17.948988 -107.593020 -1.187040
-0.004049 -0.126930 -23.591142
1.00000 -17.948988 -107.593020 -1.187040
-0.004049 -0.451517 -19.196264
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2077

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 11.472792 77.082906 0.762303
0.003514 0.849545 152.018103
0.57748 11.472792 77.082906 0.762303
0.003514 0.529900 124.455465
0.71832 11.472792 77.082906 0.762303
0.003514 0.210229 102.439128
0.85916 11.472792 77.082906 0.762303
0.003514 0.167311 90.503066
1.00000 11.472792 77.082906 0.762303
0.003514 0.650296 84.518579

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -17.324999 -91.366726 -1.157411
-0.003856 -1.299968 -115.319661
0.57748 -17.324999 -91.366726 -1.157411
-0.003856 -0.814687 -80.468643
0.71832 -17.324999 -91.366726 -1.157411
-0.003856 -0.329490 -56.448020
0.85916 -17.324999 -91.366726 -1.157411
-0.003856 -0.122751 -35.376090
1.00000 -17.324999 -91.366726 -1.157411
-0.003856 -0.433972 -31.321450

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 1.261463 16.548999 0.166568
6.78E-06 0.184390 38.149621
0.57748 1.261463 16.548999 0.166568
6.78E-06 0.114545 31.234427
0.71832 1.261463 16.548999 0.166568
6.78E-06 0.044710 24.356613
0.85916 1.261463 16.548999 0.166568
6.78E-06 0.037860 17.571479
1.00000 1.261463 16.548999 0.166568
6.78E-06 0.149876 11.035048

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -4.344324 -2.656000 -0.267049
-0.000711 -0.298056 -26.275484
0.57748 -4.344324 -2.656000 -0.267049
-0.000711 -0.186079 -25.218000
0.71832 -4.344324 -2.656000 -0.267049
-0.000711 -0.074089 -24.222750
0.85916 -4.344324 -2.656000 -0.267049
-0.000711 -0.025199 -23.253853
1.00000 -4.344324 -2.656000 -0.267049
-0.000711 -0.094999 -22.320455

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 12.464553 31.919201 0.292536
0.000195 0.325141 63.406190
0.57748 12.464553 31.919201 0.292536
0.000195 0.202476 50.286124
0.71832 12.464553 31.919201 0.292536
0.000195 0.079884 37.653705
0.85916 12.464553 31.919201 0.292536
0.000195 0.065615 26.695092
1.00000 12.464553 31.919201 0.292536
0.000195 0.260186 16.777629

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -6.242697 -13.214758 -0.467809
-0.001473 -0.525074 -54.405176
0.57748 -6.242697 -13.214758 -0.467809
-0.001473 -0.328915 -49.773603
0.71832 -6.242697 -13.214758 -0.467809
-0.001473 -0.132772 -46.380068
0.85916 -6.242697 -13.214758 -0.467809
-0.001473 -0.043857 -43.704723
1.00000 -6.242697 -13.214758 -0.467809
-0.001473 -0.165906 -41.689099
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2078

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 8.363450 39.019160 0.424363
0.000310 0.469758 75.167804
0.57748 8.363450 39.019160 0.424363
0.000310 0.291816 63.913415
0.71832 8.363450 39.019160 0.424363
0.000310 0.113931 53.771732
0.85916 8.363450 39.019160 0.424363
0.000310 0.044122 46.122553
1.00000 8.363450 39.019160 0.424363
0.000310 0.406345 45.965422

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -8.739455 -57.677206 -0.735781
-0.001911 -0.828807 -94.442866
0.57748 -8.739455 -57.677206 -0.735781
-0.001911 -0.520354 -71.372227
0.71832 -8.739455 -57.677206 -0.735781
-0.001911 -0.211957 -50.215644
0.85916 -8.739455 -57.677206 -0.735781
-0.001911 -0.065613 -32.918442
1.00000 -8.739455 -57.677206 -0.735781
-0.001911 -0.242584 -35.347506

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 8.762160 71.152719 0.658701
0.003702 0.733032 150.129398
0.57748 8.762160 71.152719 0.658701
0.003702 0.456630 125.013271
0.71832 8.762160 71.152719 0.658701
0.003702 0.180685 99.391591
0.85916 8.762160 71.152719 0.658701
0.003702 0.152635 99.468558
1.00000 8.762160 71.152719 0.658701
0.003702 0.587333 98.549415

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -19.599252 -90.269459 -1.043048
-0.004465 -1.172713 -108.493957
0.57748 -19.599252 -90.269459 -1.043048
-0.004465 -0.735388 -74.513050
0.71832 -19.599252 -90.269459 -1.043048
-0.004465 -0.298142 -53.176081
0.85916 -19.599252 -90.269459 -1.043048
-0.004465 -0.111307 -34.784120
1.00000 -19.599252 -90.269459 -1.043048
-0.004465 -0.377615 -33.004180

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 15.334015 31.408364 1.011122
0.001561 1.135552 36.496376
0.57748 15.334015 31.408364 1.011122
0.001561 0.710997 23.585434
0.71832 15.334015 31.408364 1.011122
0.001561 0.287218 10.996859
0.85916 15.334015 31.408364 1.011122
0.001561 0.180357 1.670055
1.00000 15.334015 31.408364 1.011122
0.001561 0.707270 1.546918

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -2.078789 -42.717635 -1.255203
-1.27E-05 -1.398123 -88.636801
0.57748 -2.078789 -42.717635 -1.255203
-1.27E-05 -0.871662 -70.986089
0.71832 -2.078789 -42.717635 -1.255203
-1.27E-05 -0.345618 -53.603797
0.85916 -2.078789 -42.717635 -1.255203
-1.27E-05 -0.135689 -38.368288
1.00000 -2.078789 -42.717635 -1.255203
-1.27E-05 -0.559267 -31.809802
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2079

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 14.902060 54.801752 1.519926
0.007733 1.691389 102.565086
0.57748 14.902060 54.801752 1.519926
0.007733 1.054776 81.939794
0.71832 14.902060 54.801752 1.519926
0.007733 0.420779 73.855938
0.85916 14.902060 54.801752 1.519926
0.007733 0.286129 84.861346
1.00000 14.902060 54.801752 1.519926
0.007733 1.066534 106.500696

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -18.922220 -124.932323 -1.863856
-0.006108 -2.079959 -136.392951
0.57748 -18.922220 -124.932323 -1.863856
-0.006108 -1.299104 -86.050720
0.71832 -18.922220 -124.932323 -1.863856
-0.006108 -0.520890 -59.839818
0.85916 -18.922220 -124.932323 -1.863856
-0.006108 -0.086678 -39.539881
1.00000 -18.922220 -124.932323 -1.863856
-0.006108 -0.871288 -25.440494

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 15.498411 66.399305 1.585460
0.005806 1.766313 121.487099
0.57748 15.498411 66.399305 1.585460
0.005806 1.101614 97.358243
0.71832 15.498411 66.399305 1.585460
0.005806 0.438596 82.453579
0.85916 15.498411 66.399305 1.585460
0.005806 0.297248 82.038280
1.00000 15.498411 66.399305 1.585460
0.005806 1.152935 97.808066

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -16.498441 -126.951137 -2.040991
-0.004851 -2.284464 -151.650398
0.57748 -16.498441 -126.951137 -2.040991
-0.004851 -1.428548 -100.198886
0.71832 -16.498441 -126.951137 -2.040991
-0.004851 -0.574722 -66.121390
0.85916 -16.498441 -126.951137 -2.040991
-0.004851 -0.242701 -36.226683
1.00000 -16.498441 -126.951137 -2.040991
-0.004851 -0.900546 -25.249309

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 20.135442 71.509115 1.487170
0.004824 1.657221 129.784467
0.57748 20.135442 71.509115 1.487170
0.004824 1.030473 103.107225
0.71832 20.135442 71.509115 1.487170
0.004824 0.411579 84.176394
0.85916 20.135442 71.509115 1.487170
0.004824 0.286258 77.515444
1.00000 20.135442 71.509115 1.487170
0.004824 1.111372 84.964962

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -15.930068 -108.946755 -1.969631
-0.004526 -2.205619 -145.176743
0.57748 -15.930068 -108.946755 -1.969631
-0.004526 -1.377413 -101.220204
0.71832 -15.930068 -108.946755 -1.969631
-0.004526 -0.553478 -71.866529
0.85916 -15.930068 -108.946755 -1.969631
-0.004526 -0.225215 -46.672625
1.00000 -15.930068 -108.946755 -1.969631
-0.004526 -0.842832 -38.047518
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2080

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 0.352555 14.175720 0.444022
0.004232 0.483710 46.367344
0.57748 0.352555 14.175720 0.444022
0.004232 0.298527 43.281956
0.71832 0.352555 14.175720 0.444022
0.004232 0.114722 49.580431
0.85916 0.352555 14.175720 0.444022
0.004232 0.089903 72.122129
1.00000 0.352555 14.175720 0.444022
0.004232 0.324942 99.989854

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -17.254950 -81.166350 -0.564289
-0.004510 -0.635423 -53.952293
0.57748 -17.254950 -81.166350 -0.564289
-0.004510 -0.399316 -21.774385
0.71832 -17.254950 -81.166350 -0.564289
-0.004510 -0.164459 -6.942019
0.85916 -17.254950 -81.166350 -0.564289
-0.004510 -0.091165 -1.863665
1.00000 -17.254950 -81.166350 -0.564289
-0.004510 -0.270588 -1.676763

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 7.734586 36.039152 0.652345
0.004039 0.718399 79.397743
0.57748 7.734586 36.039152 0.652345
0.004039 0.445556 68.303979
0.71832 7.734586 36.039152 0.652345
0.004039 0.173797 66.103393
0.85916 7.734586 36.039152 0.652345
0.004039 0.139294 78.187383
1.00000 7.734586 36.039152 0.652345
0.004039 0.530720 100.943061

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -14.456100 -92.536598 -0.937110
-0.004919 -1.054398 -82.572905
0.57748 -14.456100 -92.536598 -0.937110
-0.004919 -0.661338 -45.647089
0.71832 -14.456100 -92.536598 -0.937110
-0.004919 -0.270135 -25.328817
0.85916 -14.456100 -92.536598 -0.937110
-0.004919 -0.116635 -10.294530
1.00000 -14.456100 -92.536598 -0.937110
-0.004919 -0.383192 -13.479643

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 11.951787 77.952993 1.322037
0.003491 1.469783 160.567001
0.57748 11.951787 77.952993 1.322037
0.003491 0.915610 131.301483
0.71832 11.951787 77.952993 1.322037
0.003491 0.362108 108.087611
0.85916 11.951787 77.952993 1.322037
0.003491 0.243686 95.096323
1.00000 11.951787 77.952993 1.322037
0.003491 0.969179 92.467667

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -19.740245 -98.200413 -1.731475
-0.003427 -1.943403 -117.360630
0.57748 -19.740245 -98.200413 -1.731475
-0.003427 -1.217165 -77.722845
0.71832 -19.740245 -98.200413 -1.731475
-0.003427 -0.492103 -49.139240
0.85916 -19.740245 -98.200413 -1.731475
-0.003427 -0.201345 -25.390337
1.00000 -19.740245 -98.200413 -1.731475
-0.003427 -0.911266 -18.864861
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2081

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 12.714515 79.957911 1.277434
0.002926 1.419987 164.051631
0.57748 12.714515 79.957911 1.277434
0.002926 0.884112 133.540749
0.71832 12.714515 79.957911 1.277434
0.002926 0.349478 108.164787
0.85916 12.714515 79.957911 1.277434
0.002926 0.238637 91.380608
1.00000 12.714515 79.957911 1.277434
0.002926 0.953238 83.587372

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -19.726503 -83.804119 -1.705610
-0.003350 -1.914233 -115.459735
0.57748 -19.726503 -83.804119 -1.705610
-0.003350 -1.198668 -81.753403
0.71832 -19.726503 -83.804119 -1.705610
-0.003350 -0.484605 -57.359521
0.85916 -19.726503 -83.804119 -1.705610
-0.003350 -0.193117 -36.871690
1.00000 -19.726503 -83.804119 -1.705610
-0.003350 -0.724449 -31.348355

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 1.840809 21.799445 0.283256
3.98E-06 0.312813 47.513404
0.57748 1.840809 21.799445 0.283256
3.98E-06 0.193513 38.679310
0.71832 1.840809 21.799445 0.283256
3.98E-06 0.075037 30.030565
0.85916 1.840809 21.799445 0.283256
3.98E-06 0.052232 21.729109
1.00000 1.840809 21.799445 0.283256
3.98E-06 0.217801 13.783516

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -7.606747 -3.709796 -0.396050
-0.000721 -0.446001 -25.638036
0.57748 -7.606747 -3.709796 -0.396050
-0.000721 -0.279867 -25.638418
0.71832 -7.606747 -3.709796 -0.396050
-0.000721 -0.113956 -24.618305
0.85916 -7.606747 -3.709796 -0.396050
-0.000721 -0.042328 -23.969398
1.00000 -7.606747 -3.709796 -0.396050
-0.000721 -0.160355 -23.603117

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 13.343200 42.329946 0.486862
0.000125 0.540735 81.178621
0.57748 13.343200 42.329946 0.486862
0.000125 0.335838 64.044332
0.71832 13.343200 42.329946 0.486862
0.000125 0.132310 47.490110
0.85916 13.343200 42.329946 0.486862
0.000125 0.102693 32.310862
1.00000 13.343200 42.329946 0.486862
0.000125 0.411877 18.938918

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -9.267959 -12.944026 -0.740762
-0.001452 -0.830181 -52.560388
0.57748 -9.267959 -12.944026 -0.740762
-0.001452 -0.519580 -47.915931
0.71832 -9.267959 -12.944026 -0.740762
-0.001452 -0.209304 -44.304130
0.85916 -9.267959 -12.944026 -0.740762
-0.001452 -0.070901 -42.485806
1.00000 -9.267959 -12.944026 -0.740762
-0.001452 -0.273675 -42.587119
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2082

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 8.961634 49.416785 0.710190
5.44E-06 0.787136 101.492524
0.57748 8.961634 49.416785 0.710190
5.44E-06 0.488442 83.689339
0.71832 8.961634 49.416785 0.710190
5.44E-06 0.190926 66.806336
0.85916 8.961634 49.416785 0.710190
5.44E-06 0.137429 53.279003
1.00000 8.961634 49.416785 0.710190
5.44E-06 0.580193 49.591270

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -13.499334 -47.575070 -1.057363
-0.001560 -1.192539 -83.180303
0.57748 -13.499334 -47.575070 -1.057363
-0.001560 -0.748214 -64.308944
0.71832 -13.499334 -47.575070 -1.057363
-0.001560 -0.304718 -46.308562
0.85916 -13.499334 -47.575070 -1.057363
-0.001560 -0.103347 -33.305082
1.00000 -13.499334 -47.575070 -1.057363
-0.001560 -0.400006 -36.201617

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 9.501076 77.009660 1.130336
0.002802 1.251735 167.985139
0.57748 9.501076 77.009660 1.130336
0.002802 0.777686 138.939990
0.71832 9.501076 77.009660 1.130336
0.002802 0.305195 115.557783
0.85916 9.501076 77.009660 1.130336
0.002802 0.211547 102.011272
1.00000 9.501076 77.009660 1.130336
0.002802 0.847457 96.875695

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -23.802665 -78.467429 -1.518991
-0.003676 -1.707860 -103.713905
0.57748 -23.802665 -78.467429 -1.518991
-0.003676 -1.070515 -72.539471
0.71832 -23.802665 -78.467429 -1.518991
-0.003676 -0.434722 -51.592228
0.85916 -23.802665 -78.467429 -1.518991
-0.003676 -0.176789 -35.937637
1.00000 -23.802665 -78.467429 -1.518991
-0.003676 -0.646110 -33.887919

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 14.829657 79.025844 0.975944
0.007693 1.680336 153.488003
0.57748 14.829657 79.025844 0.975944
0.007693 0.680164 126.001276
0.71832 14.829657 79.025844 0.975944
0.007693 0.270922 106.391591
0.85916 14.829657 79.025844 0.975944
0.007693 0.204653 99.468558
1.00000 14.829657 79.025844 0.975944
0.007693 0.785507 104.549396

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -19.599252 -124.384004 -1.390896
-0.005846 -1.560699 -133.444085
0.57748 -19.599252 -124.384204 -1.390896
-0.005846 -0.977512 -90.375857
0.71832 -19.599252 -124.384204 -1.390896
-0.005846 -0.394438 -62.705254
0.85916 -19.599252 -124.384204 -1.390896
-0.005846 -0.158649 -43.704723
1.00000 -19.599252 -124.384204 -1.390896
-0.005846 -0.554771 -41.689099
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2083

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 20.135442 79.957911 1.585460
0.007733 1.766313 167.985139
0.57748 20.135442 79.957911 1.585460
0.007733 1.101614 138.939990
0.71832 20.135442 79.957911 1.585460
0.007733 0.438596 115.557783
0.85916 20.135442 79.957911 1.585460
0.007733 0.297248 102.011272
1.00000 20.135442 79.957911 1.585460
0.007733 1.152935 106.500696

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -23.802665 -126.951137 -2.040991
-0.006108 -2.284464 -151.650398
0.57748 -23.802665 -126.951137 -2.040991
-0.006108 -1.428548 -101.220204
0.71832 -23.802665 -126.951137 -2.040991
-0.006108 -0.574722 -71.866529
0.85916 -23.802665 -126.951137 -2.040991
-0.006108 -0.243678 -46.672625
1.00000 -23.802665 -126.951137 -2.040991
-0.006108 -0.900546 -42.587119

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43664 20.135442 79.957911 1.585460
0.007733 1.766313 167.985139
0.57748 20.135442 79.957911 1.585460
0.007733 1.101614 138.939990
0.71832 20.135442 79.957911 1.585460
0.007733 0.438596 115.557783
0.85916 20.135442 79.957911 1.585460
0.007733 0.297248 102.011272
1.00000 20.135442 79.957911 1.585460
0.007733 1.152935 106.500696

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43664 -23.802665 -126.951137 -2.040991
-0.006108 -2.284464 -151.650398
0.57748 -23.802665 -126.951137 -2.040991
-0.006108 -1.428548 -101.220204
0.71832 -23.802665 -126.951137 -2.040991
-0.006108 -0.574722 -71.866529
0.85916 -23.802665 -126.951137 -2.040991
-0.006108 -0.243678 -46.672625
1.00000 -23.802665 -126.951137 -2.040991
-0.006108 -0.900546 -42.587119

COMB DESIGN ---------- MAX

```
REL DIST              P              V2              V3
     T              M2              M3
0.43664     20.135442       79.957911        1.585460
 0.007733       1.766313      167.985139
0.57748     20.135442       79.957911        1.585460
 0.007733       1.101614      138.939990
0.71832     20.135442       79.957911        1.585460
 0.007733       0.438596      115.557783
0.85916     20.135442       79.957911        1.585460
 0.007733       0.297248      102.011272
1.00000     20.135442       79.957911        1.585460
 0.007733       1.152935      106.500696

COMB  DESIGN  -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.43664    -23.802665  -126.951137       -2.040991
-0.006108    -2.264464  -151.650398
0.57748    -23.802665  -126.951137       -2.040991
-0.006108    -1.428548  -101.220204
0.71832    -23.802665  -126.951137       -2.040991
-0.006108    -0.574722   -71.866529
0.85916    -23.802665  -126.951137       -2.040991
-0.006108    -0.243678   -46.672625
1.00000    -23.802665  -126.951137       -2.040991
-0.006108    -0.900546   -42.587119
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2084

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      183 ================== LENGTH
=     2.977319

COMB DB-G1-1 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     7.581906       36.927423        0.659018
 0.001467       0.092286       6.626333
0.14084     7.581906       36.927423        0.659018
 0.001467       0.092286       6.626333
0.28168     7.581906       36.927423        0.659018
 0.001467       0.218734      19.327925
0.42252     7.581906       36.927423        0.659018
 0.001467       0.541068      32.420717
0.56337     7.581906       36.927423        0.659018
 0.001467       0.863487      45.617237

COMB DB-G1-1 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000    -1.272146   -31.662197       -0.768913
-7.21E-06    -0.426242   -20.200912
0.14084    -1.272146   -31.662197       -0.768913
-7.21E-06    -0.103868   -34.888158
0.28168    -1.272146   -31.662197       -0.768913
-7.21E-06    -0.183989   -50.193864
0.42252    -1.272146   -31.662197       -0.768913
-7.21E-06    -0.460334   -65.630173
0.56337    -1.272146   -31.662197       -0.768913
-7.21E-06    -0.736679   -81.090197

COMB DB-G1-2 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     7.815339      129.447671        0.920407
 0.007615       0.514914      102.579293
0.14084     7.815339      129.447671        0.920407
 0.007615       0.135691      83.915245
0.28168     7.815339      129.447671        0.920407
 0.007615       0.344731      72.484773
0.42252     7.815339      129.447671        0.920407
 0.007615       0.857274      83.833602
0.56337     7.815339      129.447671        0.920407
 0.007615       1.369886      105.280235

COMB DB-G1-2 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -18.788167    -54.125959       -1.239800
-0.005892    -0.718226    -12.670064
0.14084   -18.788167    -54.125959       -1.239800
-0.005892    -0.139766    -33.481380
0.28168   -18.788167    -54.125959       -1.239800
-0.005892    -0.257016    -56.389236
0.42252   -18.788167    -54.125959       -1.239800
-0.005892    -0.642976    -87.089950
0.56337   -18.788167    -54.125959       -1.239800
-0.005892    -1.028925   -138.341893

COMB DB-G1-3 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     9.176262      115.954403        0.939607
 0.005529       0.523225      90.047476
0.14084     9.176262      115.954403        0.939607
 0.005529       0.133760      92.712994
0.28168     9.176262      115.954403        0.939607
 0.005529       0.394446      103.206102
0.42252     9.176262      115.954403        0.939607
 0.005529       0.984614      130.007962
0.56337     9.176262      115.954403        0.939607
 0.005529       1.574825      163.726164

COMB DB-G1-3 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -14.877550    -82.687536       -1.419292
-0.004161    -0.811676    -14.760896
0.14084   -14.877550    -82.687536       -1.419292
-0.004161    -0.217565    -39.454574
0.28168   -14.877550    -82.687536       -1.419292
-0.004161    -0.264841    -66.762558
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2085

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST              P              V2              V3
     T              M2              M3
0.42252   -14.877550    -82.687536       -1.419292
-0.004161    -0.658845    -99.348796
0.56337   -14.877550    -82.687536       -1.419292
-0.004161    -1.052828   -145.903483

COMB DB-G1-4 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    14.712075      108.761899        0.886815
 0.004594       0.495730      78.177948
0.14084    14.712075      108.761899        0.886815
 0.004594       0.129310      77.551882
0.28168    14.712075      108.761899        0.886815
 0.004594       0.374008      86.620600
0.42252    14.712075      108.761899        0.886815
 0.004594       0.933417      109.562577
0.56337    14.712075      108.761899        0.886815
 0.004594       1.492858      138.539724

COMB DB-G1-4 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -14.234319    -72.642442       -1.343926
-0.004136    -0.766222    -30.071892
0.14084   -14.234319    -72.642442       -1.343926
-0.004136    -0.203485    -50.433562
0.28168   -14.234319    -72.642442       -1.343926
-0.004136    -0.248855    -73.080552
0.42252   -14.234319    -72.642442       -1.343926
-0.004136    -0.620536   -100.510236
0.56337   -14.234319    -72.642442       -1.343926
-0.004136    -0.992310   -140.362844

COMB DB-G2-1 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     0.126794       68.925273        0.194661
 0.004886       0.108938      104.872138
0.14084     0.126794       68.925273        0.194661
 0.004886       0.032925      94.150409
0.28168     0.126794       68.925273        0.194661
 0.004886       0.128530      84.048610
0.42252     0.126794       68.925273        0.194661
 0.004886       0.324625      92.623510
0.56337     0.126794       68.925273        0.194661
 0.004886       0.520779      109.464516

COMB DB-G2-1 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -16.206147    -42.457525       -0.482353
-0.004926    -0.295457    -1.672867
0.14084   -16.206147    -42.457525       -0.482353
-0.004926    -0.094408    -3.714756
0.28168   -16.206147    -42.457525       -0.482353
-0.004926    -0.056208    -6.442960
0.42252   -16.206147    -42.457525       -0.482353
-0.004926    -0.137329    -15.666873
0.56337   -16.206147    -42.457525       -0.482353
-0.004926    -0.218528    -42.075701

COMB DB-G2-2 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     7.830221       81.636980        0.336286
 0.004548       0.187084      102.906936
0.14084     7.830221       81.636980        0.336286
 0.004548       0.053384      98.191779
0.28168     7.830221       81.636980        0.336286
 0.004548       0.204324      96.027998
0.42252     7.830221       81.636980        0.336286
 0.004548       0.515246      112.267884
0.56337     7.830221       81.636980        0.336286
 0.004548       0.826171      136.606195

COMB DB-G2-2 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -13.537649    -61.354647       -0.754988
-0.005073    -0.446847    -14.590265
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2086

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST              P              V2              V3
     T              M2              M3
0.14084   -13.537649    -61.354647       -0.754988
-0.005073    -0.131367    -21.093424
0.28168   -13.537649    -61.354647       -0.754988
-0.005073    -0.095914    -28.468743
0.42252   -13.537649    -61.354647       -0.754988
-0.005073    -0.236777    -42.372269
0.56337   -13.537649    -61.354647       -0.754988
-0.005073    -0.377660    -73.189282

COMB DB-G2-3 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    10.509618      114.812293        0.758832
 0.004376       0.423418      95.119864
0.14084    10.509618      114.812293        0.758832
 0.004376       0.110721      87.093102
0.28168    10.509618      114.812293        0.758832
 0.004376       0.343813      96.251710
0.42252    10.509618      114.812293        0.758832
 0.004376       0.860463      119.954034
0.56337    10.509618      114.812293        0.758832
 0.004376       1.377118      149.653089

COMB DB-G2-3 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -18.958157    -74.024748       -1.241665
-0.003686    -0.710348    -19.173559
0.14084   -18.958157    -74.024748       -1.241665
-0.003686    -0.190439    -26.170876
0.28168   -18.958157    -74.024748       -1.241665
-0.003686    -0.213860    -54.809376
0.42252   -18.958157    -74.024748       -1.241665
-0.003686    -0.531920    -88.159305
0.56337   -18.958157    -74.024748       -1.241665
-0.003686    -0.849999   -133.664051

COMB DB-G2-4 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    11.390513      107.126152        0.723195
 0.003660       0.403387      84.690726
0.14084    11.390513      107.126152        0.723195
 0.003660       0.104483      73.159218
0.28168    11.390513      107.126152        0.723195
 0.003660       0.331992      80.863441
0.42252    11.390513      107.126152        0.723195
 0.003660       0.830689      100.933355
0.56337    11.390513      107.126152        0.723195
 0.003660       1.329374      125.959375

COMB DB-G2-4 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -18.175841    -63.260711       -1.197256
-0.003782    -0.682829    -31.305177
0.14084   -18.175841    -63.260711       -1.197256
-0.003782    -0.181378    -36.779746
0.28168   -18.175841    -63.260711       -1.197256
-0.003782    -0.204017    -60.279562
0.42252   -18.175841    -63.260711       -1.197256
-0.003782    -0.507151    -87.646855
0.56337   -18.175841    -63.260711       -1.197256
-0.003782    -0.810294   -125.050690

COMB DB-G3-1 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     1.263804       16.727851        0.148240
 9.56E-06       0.082351      11.043817
0.14084     1.263804       16.727851        0.148240
 9.56E-06       0.020284      5.906913
0.28168     1.263804       16.727851        0.148240
 9.56E-06       0.073050      3.279150
0.42252     1.263804       16.727851        0.148240
 9.56E-06       0.182735      2.246876
0.56337     1.263804       16.727851        0.148240
 9.56E-06       0.292406      3.005819
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2087

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000    -4.353915      -2.605346       -0.261558
-0.001116    -0.146319    -22.324447
0.14084    -4.353915      -2.605346       -0.261558
-0.001116    -0.036524    -21.442061
0.28168    -4.353915      -2.605346       -0.261558
-0.001116    -0.042198    -20.641661
0.42252    -4.353915      -2.605346       -0.261558
-0.001116    -0.104354    -19.964514
0.56337    -4.353915      -2.605346       -0.261558
-0.001116    -0.166514    -19.355868

COMB DB-G3-2 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    12.477911      34.163579        0.277942
 0.000188       0.156925      16.804582
0.14084    12.477911      34.163579        0.277942
 0.000188       0.045277      8.909002
0.28168    12.477911      34.163579        0.277942
 0.000188       0.133050      6.291739
0.42252    12.477911      34.163579        0.277942
 0.000188       0.332492      8.789666
0.56337    12.477911      34.163579        0.277942
 0.000188       0.531921      12.316711

COMB DB-G3-2 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000    -6.314777   -11.511940       -0.476181
-0.002040    -0.267060   -41.697274
0.14084    -6.314777   -11.511940       -0.476181
-0.002040    -0.067230   -40.740341
0.28168    -6.314777   -11.511940       -0.476181
-0.002040    -0.077470   -41.637533
0.42252    -6.314777   -11.511940       -0.476181
-0.002040    -0.193837   -43.690030
0.56337    -6.314777   -11.511940       -0.476181
-0.002040    -0.310231   -47.558586

COMB DB-G3-3 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     8.430315      42.552209        0.370814
 0.000299       0.205503      45.987374
0.14084     8.430315      42.552209        0.370814
 0.000299       0.052112      56.486594
0.28168     8.430315      42.552209        0.370814
 0.000299       0.218133      71.967715
0.42252     8.430315      42.552209        0.370814
 0.000299       0.548949      93.323608
0.56337     8.430315      42.552209        0.370814
 0.000299       0.879758      115.551719

COMB DB-G3-3 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000    -8.865461   -55.220353       -0.789808
-0.001868    -0.445530    -35.344515
0.14084    -8.865461   -55.220353       -0.789808
-0.001868    -0.114373    -40.979990
0.28168    -8.865461   -55.220353       -0.789808
-0.001868    -0.106303    -46.899926
0.42252    -8.865461   -55.220353       -0.789808
-0.001868    -0.261661    -53.625941
0.56337    -8.865461   -55.220353       -0.789808
-0.001868    -0.417038    -62.180903

COMB DB-G3-4 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     8.657648      106.883987        0.615087
 0.003821       0.342441      87.759404
0.14084     8.657648      106.883987        0.615087
 0.003821       0.089609      81.333318
0.28168     8.657648      106.883987        0.615087
 0.003821       0.302445      79.382276
0.42252     8.657648      106.883987        0.615087
 0.003821       0.758396      95.749267
0.56337     8.657648      106.883987        0.615087
 0.003821       1.214337      118.139813
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2088

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -20.619543    -56.962854       -1.096769
-0.004514    -0.629966    -32.991935
0.14084   -20.619543    -56.962854       -1.096769
-0.004514    -0.170684    -34.431733
0.28168   -20.619543    -56.962854       -1.096769
-0.004514    -0.174080    -52.166861
0.42252   -20.619543    -56.962854       -1.096769
-0.004514    -0.431898    -75.889198
0.56337   -20.619543    -56.962854       -1.096769
-0.004514    -0.689729   -111.479810

COMB DL-G1-1 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    15.319136      31.087930        1.087615
 0.001619       0.613013      1.546337
0.14084    15.319136      31.087930        1.087615
 0.001619       0.515781      5.896602
0.28168    15.319136      31.087930        1.087615
 0.001619       0.328487      21.447030
0.42252    15.319136      31.087930        1.087615
 0.001619       0.806340      38.655029
0.56337    15.319136      31.087930        1.087615
 0.001619       1.284623      56.213423

COMB DL-G1-1 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000    -2.054862   -42.626786       -1.140227
-4.32E-06    -0.627918    -31.811350
0.14084    -2.054862   -42.626786       -1.140227
-4.32E-06    -0.149159    -33.898152
0.28168    -2.054862   -42.626786       -1.140227
-4.32E-06    -0.297622    -44.789908
0.42252    -2.054862   -42.626786       -1.140227
-4.32E-06    -0.753415    -57.212651
0.56337    -2.054862   -42.626786       -1.140227
-4.32E-06    -1.210158    -69.989975

COMB DL-G1-2 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    14.509935      118.344008        1.514481
 0.008159       0.851821      106.572370
0.14084    14.509935      118.344008        1.514481
 0.008159       0.233901      85.556696
0.28168    14.509935      118.344008        1.514481
 0.008159       0.514782      77.029592
0.42252    14.509935      118.344008        1.514481
 0.008159       1.280539      90.785552
0.56337    14.509935      118.344008        1.514481
 0.008159       2.051102      115.722613

COMB DL-G1-2 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -21.867079    -64.148171       -1.847911
-0.005927    -1.059493    -25.428741
0.14084   -21.867079    -64.148171       -1.847911
-0.005927    -0.286322    -31.702991
0.28168   -21.867079    -64.148171       -1.847911
-0.005927    -0.420037    -48.463686
0.42252   -21.867079    -64.148171       -1.847911
-0.005927    -1.054510    -75.910692
0.56337   -21.867079    -64.148171       -1.847911
-0.005927    -1.690372   -123.811609

COMB DL-G1-3 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    15.268096      111.490641        1.569431
 0.006127       0.878967      97.853560
0.14084    15.268096      111.490641        1.569431
 0.006127       0.232503      94.145894
0.28168    15.268096      111.490641        1.569431
 0.006127       0.572673      102.866285
0.42252    15.268096      111.490641        1.569431
 0.006127       1.429391      127.742253
0.56337    15.268096      111.490641        1.569431
 0.006127       2.286711      160.580439
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2089

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -18.616357    -84.113761       -2.053916
-0.004398    -1.166187    -25.229473
0.14084   -18.616357    -84.113761       -2.053916
-0.004398    -0.305342    -37.965930
0.28168   -18.616357    -84.113761       -2.053916
-0.004398    -0.435793    -60.091892
0.42252   -18.616357    -84.113761       -2.053916
-0.004398    -1.094188    -90.052596
0.56337   -18.616357    -84.113761       -2.053916
-0.004398    -1.753107   -134.553185

COMB DL-G1-4 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    19.948713      108.993206        1.488053
 0.005091       0.835302      85.010188
0.14084    19.948713      108.993206        1.488053
 0.005091       0.221939      76.679713
0.28168    19.948713      108.993206        1.488053
 0.005091       0.550033      86.393341
0.42252    19.948713      108.993206        1.488053
 0.005091       1.371838      107.909194
0.56337    19.948713      108.993206        1.488053
 0.005091       2.194392      136.245689

COMB DL-G1-4 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -17.701805    -73.545568       -1.969178
-0.004323    -1.114583    -38.033450
0.14084   -17.701805    -73.545568       -1.969178
-0.004323    -0.289488    -50.969637
0.28168   -17.701805    -73.545568       -1.969178
-0.004323    -0.410970    -74.167755
0.42252   -17.701805    -73.545568       -1.969178
-0.004323    -1.035040   -104.033375
0.56337   -17.701805    -73.545568       -1.969178
-0.004323    -1.659845   -146.050425

COMB DL-G2-1 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     0.094946       59.117758        0.350062
 0.004408       0.194214      100.033458
0.14084     0.094946       59.117758        0.350062
 0.004408       0.059483      92.091295
0.28168     0.094946       59.117758        0.350062
 0.004408       0.178409      84.610153
0.42252     0.094946       59.117758        0.350062
 0.004408       0.459333      91.614122
0.56337     0.094946       59.117758        0.350062
 0.004408       0.740267      106.345451

COMB DL-G2-1 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -19.346669    -39.027743       -0.680579
-0.004152    -0.409112    -1.663766
0.14084   -19.346669    -39.027743       -0.680579
-0.004152    -0.125665    -3.437545
0.28168   -19.346669    -39.027743       -0.680579
-0.004152    -0.101380    -5.921659
0.42252   -19.346669    -39.027743       -0.680579
-0.004152    -0.247457    -14.934560
0.56337   -19.346669    -39.027743       -0.680579
-0.004152    -0.394093    -38.203984

COMB DL-G2-2 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000     7.556686       79.009040        0.584106
 0.004207       0.325472      100.988695
0.14084     7.556686       79.009040        0.584106
 0.004207       0.092645      95.803874
0.28168     7.556686       79.009040        0.584106
 0.004207       0.282909      93.082820
0.42252     7.556686       79.009040        0.584106
 0.004207       0.717851      104.809715
0.56337     7.556686       79.009040        0.584106
 0.004207       1.153288      124.234191
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2090

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -16.497864    -52.553632       -1.047164
-0.004435    -0.610489    -13.461949
0.14084   -16.497864    -52.553632       -1.047164
-0.004435    -0.172502    -22.184852
0.28168   -16.497864    -52.553632       -1.047164
-0.004435    -0.163969    -32.157287
0.42252   -16.497864    -52.553632       -1.047164
-0.004435    -0.409085    -48.579549
0.56337   -16.497864    -52.553632       -1.047164
-0.004435    -0.654295    -78.710485

COMB DL-G2-3 -------------------- MAX

REL DIST              P              V2              V3
     T              M2              M3
0.00000    11.836775      105.264049        1.266854
 0.003959       0.707307      92.485917
0.14084    11.836775      105.264049        1.266854
 0.003959       0.184229      85.208478
0.28168    11.836775      105.264049        1.266854
 0.003959       0.498512      97.389837
0.42252    11.836775      105.264049        1.266854
 0.003959       1.251802      120.090302
0.56337    11.836775      105.264049        1.266854
 0.003959       2.005617      148.050094

COMB DL-G2-3 -------------------- MIN

REL DIST              P              V2              V3
     T              M2              M3
0.00000   -21.060083    -72.329534       -1.802683
-0.003001    -1.022850    -18.835520
0.14084   -21.060083    -72.329534       -1.802683
-0.003001    -0.266823    -25.572896
0.28168   -21.060083    -72.329534       -1.802683
-0.003001    -0.353433    -53.309561
0.42252   -21.060083    -72.329534       -1.802683
-0.003001    -0.885168    -85.875873
0.56337   -21.060083    -72.329534       -1.802683
-0.003001    -1.416245   -127.477070

COMB DL-G2-4 -------------------- MAX
```

```
REL DIST          P          V2          V3
          T          M2          M3
0.00000   12.622798   102.988316    1.220041
 0.003316    0.680170    83.610316
0.14084   12.622798   102.988316    1.220041
 0.003316    0.175174    71.972641
0.28168   12.622798   102.988316    1.220041
 0.003316    0.490417    82.053770
0.42252   12.622798   102.988316    1.220041
 0.003316    1.230437   101.311334
0.56337   12.622798   102.988316    1.220041
 0.003316    1.971578   124.916031

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -20.852363   -62.097527   -1.771044
-0.003254   -1.002540   -31.326687
0.14084  -20.852363   -62.097527   -1.771044
-0.003254   -0.260098   -37.114050
0.28168  -20.852363   -62.097527   -1.771044
-0.003254   -0.340333   -64.143437
0.42252  -20.852363   -62.097527   -1.771044
-0.003254   -0.852019   -95.601256
0.56337  -20.852363   -62.097527   -1.771044
-0.003254   -1.364108   -134.698762

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000    1.848923    22.019155    0.241285
 6.85E-06    0.131692    13.794136
0.14084    1.848923    22.019155    0.241285
 6.85E-06    0.031010     7.096005
0.28168    1.848923    22.019155    0.241285
 6.85E-06    0.117405     3.577900
0.42252    1.848923    22.019155    0.241285
 6.85E-06    0.296599     3.466606
0.56337    1.848923    22.019155    0.241285
 6.85E-06    0.476213     3.857683
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2091

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -7.639985    -3.699619   -0.427858
-0.001193   -0.240859   -23.607170
0.14084   -7.639985    -3.699619   -0.427858
-0.001193   -0.061924   -23.906590
0.28168   -7.639985    -3.699619   -0.427858
-0.001193   -0.068636   -26.349487
0.42252   -7.639985    -3.699619   -0.427858
-0.001193   -0.169493   -31.768641
0.56337   -7.639985    -3.699619   -0.427858
-0.001193   -0.271319   -37.548312

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   13.348943    43.907766    0.477848
 0.000131    0.268094    18.959336
0.14084   13.348943    43.907766    0.477848
 0.000131    0.071043     9.513209
0.28168   13.348943    43.907766    0.477848
 0.000131    0.210241     6.413437
0.42252   13.348943    43.907766    0.477848
 0.000131    0.526688     8.651921
0.56337   13.348943    43.907766    0.477848
 0.000131    0.843698    12.495026

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -9.377889   -11.992190   -0.755579
-0.002030   -0.423268   -42.593496
0.14084   -9.377889   -11.992190   -0.755579
-0.002030   -0.106722   -46.269102
0.28168   -9.377889   -11.992190   -0.755579
-0.002030   -0.130251   -54.670326
0.42252   -9.377889   -11.992190   -0.755579
-0.002030   -0.330178   -66.394966
0.56337   -9.377889   -11.992190   -0.755579
-0.002030   -0.531345   -80.338585

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000    9.034684    49.758389    0.643014
 7.82E-06    0.354435    49.597946
0.14084    9.034684    49.758389    0.643014
 7.82E-06    0.086769    56.951734
0.28168    9.034684    49.758389    0.643014
 7.82E-06    0.131067    69.899053
0.42252    9.034684    49.758389    0.643014
 7.82E-06    0.795610    87.074473
0.56337    9.034684    49.758389    0.643014
 7.82E-06    1.277039   105.371465

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -13.573945   -48.301518   -1.145698
-0.001648   -0.643923   -36.193835
0.14084  -13.573945   -48.301518   -1.145698
-0.001648   -0.163558   -44.853198
0.28168  -13.573945   -48.301518   -1.145698
-0.001648   -0.180483   -57.061654
0.42252  -13.573945   -48.301518   -1.145698
-0.001648   -0.449727   -72.278899
0.56337  -13.573945   -48.301518   -1.145698
-0.001648   -0.720263   -87.840622

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000    9.407041   102.138983    1.033341
 0.003165    0.573556    96.905584
0.14084    9.407041   102.138983    1.033341
 0.003165    0.148665    81.480621
0.28168    9.407041   102.138983    1.033341
 0.003165    0.446644    82.212216
0.42252    9.407041   102.138983    1.033341
 0.003165    1.127258    97.048492
0.56337    9.407041   102.138983    1.033341
 0.003165    1.808619   117.480586
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2092

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -25.041578   -54.951601   -1.629339
-0.003712   -0.928111   -33.871356
0.14084  -25.041578   -54.951601   -1.629339
-0.003712   -0.245622   -37.786147
0.28168  -25.041578   -54.951601   -1.629339
-0.003712   -0.290521   -58.797409
0.42252  -25.041578   -54.951601   -1.629339
-0.003712   -0.723584   -87.922726
0.56337  -25.041578   -54.951601   -1.629339
-0.003712   -1.157364   -125.567732

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   14.712075   129.447671    0.939607
 0.007615    0.523225   104.872138
0.14084   14.712075   129.447671    0.939607
 0.007615    0.135691    98.191779
0.28168   14.712075   129.447671    0.939607
 0.007615    0.394446   103.206102
0.42252   14.712075   129.447671    0.939607
 0.007615    0.984614   130.007962
0.56337   14.712075   129.447671    0.939607
 0.007615    1.574825   163.726164

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -20.619543   -82.687536   -1.419292
-0.005892   -0.811676   -41.697274
0.14084  -20.619543   -82.687536   -1.419292
-0.005892   -0.217565   -50.433562
0.28168  -20.619543   -82.687536   -1.419292
-0.005892   -0.264841   -73.080552
0.42252  -20.619543   -82.687536   -1.419292
-0.005892   -0.658845   -100.510236
0.56337  -20.619543   -82.687536   -1.419292
-0.005892   -1.052828   -145.903483

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   19.948713   118.344008    1.569431
 0.008159    0.878967   106.572370
0.14084   19.948713   118.344008    1.569431
 0.008159    0.233901    95.803874
0.28168   19.948713   118.344008    1.569431
 0.008159    0.572673   102.866285
0.42252   19.948713   118.344008    1.569431
 0.008159    1.429391   127.742253
0.56337   19.948713   118.344008    1.569431
 0.008159    2.286711   160.580439

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -25.041578   -84.113761   -2.053916
-0.005927   -1.166187   -42.593496
0.14084  -25.041578   -84.113761   -2.053916
-0.005927   -0.305342   -50.909637
0.28168  -25.041578   -84.113761   -2.053916
-0.005927   -0.435793   -74.167755
0.42252  -25.041578   -84.113761   -2.053916
-0.005927   -1.094188   -104.033375
0.56337  -25.041578   -84.113761   -2.053916
-0.005927   -1.753107   -146.050425

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   19.948713   129.447671    1.569431
 0.008159    0.878967   106.572370
0.14084   19.948713   129.447671    1.569431
 0.008159    0.233901    98.191779
0.28168   19.948713   129.447671    1.569431
 0.008159    0.572673   103.206102
0.42252   19.948713   129.447671    1.569431
 0.008159    1.429391   130.007962
0.56337   19.948713   129.447671    1.569431
 0.008159    2.286711   163.726164
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2093

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -25.041578   -84.113761   -2.053916
-0.005927   -1.166187   -42.593496
0.14084  -25.041578   -84.113761   -2.053916
-0.005927   -0.305342   -50.909637
0.28168  -25.041578   -84.113761   -2.053916
-0.005927   -0.435793   -74.167755
0.42252  -25.041578   -84.113761   -2.053916
-0.005927   -1.094188   -104.033375
0.56337  -25.041578   -84.113761   -2.053916
-0.005927   -1.753107   -146.050425

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   19.948713   129.447671    1.569431
 0.008159    0.878967   106.572370
0.14084   19.948713   129.447671    1.569431
 0.008159    0.233901    98.191779
0.28168   19.948713   129.447671    1.569431
 0.008159    0.572673   103.206102
0.42252   19.948713   129.447671    1.569431
 0.008159    1.429391   130.007962
0.56337   19.948713   129.447671    1.569431
 0.008159    2.286711   163.726164

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -25.041578   -84.113761   -2.053916
-0.005927   -1.166187   -42.593496
0.14084  -25.041578   -84.113761   -2.053916
-0.005927   -0.305342   -50.909637
0.28168  -25.041578   -84.113761   -2.053916
-0.005927   -0.435793   -74.167755
0.42252  -25.041578   -84.113761   -2.053916
-0.005927   -1.094188   -104.033375
0.56337  -25.041578   -84.113761   -2.053916
-0.005927   -1.753107   -146.050425

ELEM    184 ================== LENGTH
=  2.978195

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    1.904560    59.156249    0.665031
 0.001375    0.743621    77.708281
0.57738    1.904560    59.156249    0.665031
 0.001375    0.464608    52.939044
0.71825    1.904560    59.156249    0.665031
 0.001375    0.185595    28.224404
0.85913    1.904560    59.156249    0.665031
 0.001375    0.113461     4.010466
1.00000    1.904560    59.156249    0.665031
 0.001375    0.450504     1.873282

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -7.336911   -17.886711   -0.803367
-1.66E-05   -0.897707   -36.453586
0.57738   -7.336911   -17.886711   -0.803367
-1.66E-05   -0.560664   -29.048906
0.71825   -7.336911   -17.886711   -0.803367
-1.66E-05   -0.223652   -21.962673
0.85913   -7.336911   -17.886711   -0.803367
-1.66E-05   -0.093306   -15.278453
1.00000   -7.336911   -17.886711   -0.803367
-1.66E-05   -0.372430   -23.005680

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    5.736188    87.819760    0.929696
 0.007814    1.039608   161.189278
0.57738    5.736188    87.819760    0.929696
 0.007814    0.649556   126.344409
0.71825    5.736188    87.819760    0.929696
 0.007814    0.259492   104.778288
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2094

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
          T          M2          M3
0.85913    5.736188    87.819760    0.929696
 0.007814    0.201614   102.022225
1.00000    5.736188    87.819760    0.929696
 0.007814    0.725939   114.096337

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651  -12.005831   -103.237556   -1.252187
-0.006290   -1.379401    -72.789333
0.57738  -12.005831   -103.237556   -1.252187
-0.006290   -0.862111    -41.187439
0.71825  -12.005831   -103.237556   -1.252187
-0.006290   -0.344863    -28.699285
0.85913  -12.005831   -103.237556   -1.252187
-0.006290   -0.141735    -20.099302
1.00000  -12.005831   -103.237556   -1.252187
-0.006290   -0.520602    -13.068794

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    8.557743    83.916735    0.894080
 0.005614    0.998850   156.795586
0.57738    8.557743    83.916735    0.894080
 0.005614    0.623661   125.243214
0.71825    8.557743    83.916735    0.894080
 0.005614    0.248499   103.411055
0.85913    8.557743    83.916735    0.894080
 0.005614    0.205532    95.839968
1.00000    8.557743    83.916735    0.894080
 0.005614    0.776347   108.097939

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651  -10.581189   -125.088072   -1.362623
-0.004808   -1.513214   -115.019379
0.57738  -10.581189   -125.088072   -1.362623
-0.004808   -0.947077    -70.629987
0.71825  -10.581189   -125.088072   -1.362623
-0.004808   -0.381143    -37.942476
0.85913  -10.581189   -125.088072   -1.362623
-0.004808   -0.133927    -18.616475
1.00000  -10.581189   -125.088072   -1.362623
-0.004808   -0.501547    -13.674055

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651   10.015340    76.850658    0.836549
 0.004663    0.934152   145.175004
0.57738   10.015340    76.850658    0.836549
 0.004663    0.583123   115.975423
0.71825   10.015340    76.850658    0.836549
 0.004663    0.232106    94.870851
0.85913   10.015340    76.850658    0.836549
 0.004663    0.194246    85.672526
1.00000   10.015340    76.850658    0.836549
 0.004663    0.735665    93.135354

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -9.443452   -115.542101   -1.292277
-0.004438   -1.435370   -133.098900
0.57738   -9.443452   -115.542101   -1.292277
-0.004438   -0.897784    -91.633423
0.71825   -9.443452   -115.542101   -1.292277
-0.004438   -0.360385    -60.293660
0.85913   -9.443452   -115.542101   -1.292277
-0.004438   -0.124946    -40.565328
1.00000   -9.443452   -115.542101   -1.292277
-0.004438   -0.469703    -32.499126

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    4.632111     9.723261    0.196697
 0.005377    0.202277    45.246359
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2095

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
          T          M2          M3
0.57738    4.632111     9.723261    0.196697
 0.005377    0.137742    44.841355
0.71825    4.632111     9.723261    0.196697
 0.005377    0.055164    55.113523
0.85913    4.632111     9.723261    0.196697
 0.005377    0.080077    82.904737
1.00000    4.632111     9.723261    0.196697
 0.005377    0.259827   121.223840

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -3.035911   -100.720051   -0.430476
-0.005494   -0.641822    -64.811322
0.57738   -3.035911   -100.720051   -0.430476
-0.005494   -0.291951    -20.118497
0.71825   -3.035911   -100.720051   -0.430476
-0.005494   -0.118223     -4.213306
0.85913   -3.035911   -100.720051   -0.430476
-0.005494   -0.036731     -2.712194
1.00000   -3.035911   -100.720051   -0.430476
-0.005494   -0.109811     -2.496813

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    9.109869    16.100167    0.267445
 0.004900    0.298008    55.282398
0.57738    9.109869    16.100167    0.267445
 0.004900    0.185727    52.614045
0.71825    9.109869    16.100167    0.267445
 0.004900    0.073439    61.067142
0.85913    9.109869    16.100167    0.267445
 0.004900    0.107018    85.821051
1.00000    9.109869    16.100167    0.267445
 0.004900    0.377016   123.262656

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -2.716940   -129.354714   -0.645900
-0.005697   -0.710042   -106.355229
0.57738   -2.716940   -129.354714   -0.645900
-0.005697   -0.445354    -61.417914
0.71825   -2.716940   -129.354714   -0.645900
-0.005697   -0.180926    -30.361662
0.85913   -2.716940   -129.354714   -0.645900
-0.005697   -0.047240    -14.736878
1.00000   -2.716940   -129.354714   -0.645900
-0.005697   -0.150767    -14.212176

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    8.956793    79.961182    0.702106
 0.004308    0.783968   175.976518
0.57738    8.956793    79.961182    0.702106
 0.004308    0.489329   145.905778
0.71825    8.956793    79.961182    0.702106
 0.004308    0.194769   123.905541
0.85913    8.956793    79.961182    0.702106
 0.004308    0.174060   114.207672
1.00000    8.956793    79.961182    0.702106
 0.004308    0.660217   116.430897

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -9.190057   -118.156035   -1.160680
-0.004208   -1.289925   -116.868813
0.57738   -9.190057   -118.156035   -1.160680
-0.004208   -0.807438    -74.079316
0.71825   -9.190057   -118.156035   -1.160680
-0.004208   -0.325182    -41.310578
0.85913   -9.190057   -118.156035   -1.160680
-0.004208   -0.105710    -23.073381
1.00000   -9.190057   -118.156035   -1.160680
-0.004208   -0.394258    -18.419663
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2096

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    9.732356    74.219669    0.681347
 0.003605    0.760176   164.350278
0.57738    9.732356    74.219669    0.681347
 0.003605    0.474260   136.128092
0.71825    9.732356    74.219669    0.681347
 0.003605    0.188349   114.668308
0.85913    9.732356    74.219669    0.681347
 0.003605    0.168932   103.464666
1.00000    9.732356    74.219669    0.681347
 0.003605    0.643495   102.102388

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -8.410302   -106.205126   -1.132655
-0.003956   -1.259231   -132.342386
0.57738   -8.410302   -106.205126   -1.132655
-0.003956   -0.787782    -93.610402
0.71825   -8.410302   -106.205126   -1.132655
-0.003956   -0.316514    -63.241819
0.85913   -8.410302   -106.205126   -1.132655
-0.003956   -0.102462    -44.814621
1.00000   -8.410302   -106.205126   -1.132655
-0.003956   -0.383219    -38.102497

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    3.012911    12.139721    0.157251
 7.02E-06    0.174037    29.928040
0.57738    3.012911    12.139721    0.157251
 7.02E-06    0.108362    24.859005
0.71825    3.012911    12.139721    0.157251
 7.02E-06    0.042432    19.817034
0.85913    3.012911    12.139721    0.157251
 7.02E-06    0.037376    14.878920
1.00000    3.012911    12.139721    0.157251
 7.02E-06    0.146697    10.030294

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -1.263431   -10.307568   -0.260583
-0.000668   -0.290615    -52.069551
0.57738   -1.263431   -10.307568   -0.260583
-0.000668   -0.181297    -47.908055
0.71825   -1.263431   -10.307568   -0.260583
-0.000668   -0.071968    -43.827254
0.85913   -1.263431   -10.307568   -0.260583
-0.000668   -0.029605    -39.804407
1.00000   -1.263431   -10.307568   -0.260583
-0.000668   -0.089562    -35.810994

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    7.061288    19.533748    0.261654
 0.000203    0.290774    43.466104
0.57738    7.061288    19.533748    0.261654
 0.000203    0.181005    35.519257
0.71825    7.061288    19.533748    0.261654
 0.000203    0.071237    28.540165
0.85913    7.061288    19.533748    0.261654
 0.000203    0.063943    22.412218
1.00000    7.061288    19.533748    0.261654
 0.000203    0.251129    16.843856

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -1.962654   -32.058285   -0.446047
-0.001388   -0.497610    -98.675168
0.57738   -1.962654   -32.058285   -0.446047
-0.001388   -0.310731    -86.191198
0.71825   -1.962654   -32.058285   -0.446047
-0.001388   -0.123851    -74.998130
0.85913   -1.962654   -32.058285   -0.446047
-0.001388   -0.039021    -64.304665
1.00000   -1.962654   -32.058285   -0.446047
-0.001388   -0.148449    -54.075316
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2097

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43651    9.442549    21.094435    0.316906
 0.000322    0.351952    59.353014
0.57738    9.442549    21.094435    0.316906
 0.000322    0.218911    53.254564
0.71825    9.442549    21.094435    0.316906
 0.000322    0.085999    48.735875
0.85913    9.442549    21.094435    0.316906
 0.000322    0.097138    47.750355
1.00000    9.442549    21.094435    0.316906
 0.000322    0.390583    58.826209

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43651   -2.245585   -84.096101   -0.699809
-0.001795   -0.784203   -136.548875
0.57738   -2.245585   -84.096101   -0.699809
-0.001795   -0.491029   -102.454937
0.71825   -2.245585   -84.096101   -0.699809
-0.001795   -0.198050    -69.033115
0.85913   -2.245585   -84.096101   -0.699809
-0.001795   -0.047402    -52.493105
1.00000   -2.245585   -84.096101   -0.699809
-0.001795   -0.179924    -48.574058

COMB DB-G3-4 ------------------- MAX
```

```
REL DIST          P              V2              V3
        T         M2             M3
0.43651    9.923467       63.143881        0.574850
 0.003807    0.640715      153.808086
0.57738    9.923467       63.143881        0.574850
 0.003807    0.399498      130.390332
0.71825    9.923467       63.143881        0.574850
 0.003807    0.158280      114.923943
0.85913    9.923467       63.143881        0.574850
 0.003807    0.155401      111.048069
1.00000    9.923467       63.143881        0.574850
 0.003807    0.583396      116.831057

COMB DB-G3-4 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -7.165725 -108.963044        -1.021641
-0.004599   -1.133351 -135.297795
0.57738   -7.165725 -108.963044        -1.021641
-0.004599   -0.709133  -96.320752
0.71825   -7.165725 -108.963044        -1.021641
-0.004599   -0.285098  -67.160254
0.85913   -7.165725 -108.963044        -1.021641
-0.004599   -0.068901  -49.780222
1.00000   -7.165725 -108.963044        -1.021641
-0.004599   -0.324035  -43.934437

COMB DL-G1-1 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    3.254267       54.031348        0.984239
 0.001351    1.100466       68.207400
0.57738    3.254267       54.031348        0.984239
 0.001351    0.686856       45.989014
0.71825    3.254267       54.031348        0.984239
 0.001351    0.274153       24.117546
0.85913    3.254267       54.031348        0.984239
 0.001351    0.166010        3.883959
1.00000    3.254267       54.031348        0.984239
 0.001351    0.661002        2.055010

COMB DL-G1-1 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -6.302548   -21.604952        -1.177776
-1.20E-05   -1.315551   -48.107482
0.57738   -6.302548   -21.604952        -1.177776
-1.20E-05   -0.821242   -39.493344
0.71825   -6.302548   -21.604952        -1.177776
-1.20E-05   -0.327351   -31.289592
0.85913   -6.302548   -21.604952        -1.177776
-1.20E-05   -0.137459   -24.383621
1.00000   -6.302548   -21.604952        -1.177776
-1.20E-05   -0.550052   -34.113338
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2098

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    6.922803       79.643001        1.410472
 0.007707    1.577456      148.821284
0.57738    6.922803       79.643001        1.410472
 0.007707    0.982362      119.196531
0.71825    6.922803       79.643001        1.410472
 0.007707    0.391108      103.180384
0.85913    6.922803       79.643001        1.410472
 0.007707    0.278262      104.699644
1.00000    6.922803       79.643001        1.410472
 0.007707    1.026314      119.829240

COMB DL-G1-2 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -10.828627 -104.104757        -1.784290
-0.006283   -1.978362   -89.541466
0.57738   -10.828627 -104.104757        -1.784290
-0.006283   -1.235969   -50.745224
0.71825   -10.828627 -104.104757        -1.784290
-0.006283   -0.494268   -37.087638
0.85913   -10.828627 -104.104757        -1.784290
-0.006283   -0.752165   -27.148189
1.00000   -10.828627 -104.104757        -1.784290
-0.006283   -0.794318   -25.901298

COMB DL-G1-3 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    9.108962       77.034253        1.406961
 0.005719    1.570772      146.765794
0.57738    9.108962       77.034253        1.406961
 0.005719    0.979473      118.529828
0.71825    9.108962       77.034253        1.406961
 0.005719    0.463190      100.463120
0.85913    9.108962       77.034253        1.406961
 0.005719    0.286627      100.298791
1.00000    9.108962       77.034253        1.406961
 0.005719    1.095179      118.946588

COMB DL-G1-3 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -9.691876 -121.229237        -1.926731
-0.004914   -2.145287  -119.728595
0.57738   -9.691876 -121.229237        -1.926731
-0.004914   -1.341257   -72.888053
0.71825   -9.691876 -121.229237        -1.926731
-0.004914   -0.537021   -44.080820
0.85913   -9.691876 -121.229237        -1.926731
-0.004914   -0.213638   -25.175507
1.00000   -9.691876 -121.229237        -1.926731
-0.004914   -0.790180   -25.087757

COMB DL-G1-4 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651   10.504927       72.150651        1.298574
 0.004751    1.449040      138.824933
0.57738   10.504927       72.150651        1.298574
 0.004751    0.903203      112.001609
0.71825   10.504927       72.150651        1.298574
 0.004751    0.358205       93.696926
0.85913   10.504927       72.150651        1.298574
 0.004751    0.271060       90.431522
1.00000   10.504927       72.150651        1.298574
 0.004751    1.041437      102.798690

COMB DL-G1-4 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -8.703290 -112.487710        -1.836314
-0.004510   -2.045619  -138.011392
0.57738   -8.703290 -112.487710        -1.836314
-0.004510   -1.278600   -94.297629
0.71825   -8.703290 -112.487710        -1.836314
-0.004510   -0.511764   -65.808293
0.85913   -8.703290 -112.487710        -1.836314
-0.004510   -0.195889   -46.208748
1.00000   -8.703290 -112.487710        -1.836314
-0.004510   -0.728973   -42.191502
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2099

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    3.917287       9.905345         0.343382
 0.004503    0.381747      48.405591
0.57738    3.917287       9.905345         0.343382
 0.004503    0.237650      48.145695
0.71825    3.917287       9.905345         0.343382
 0.004503    0.093947      58.932400
0.85913    3.917287       9.905345         0.343382
 0.004503    0.095329      86.253705
1.00000    3.917287       9.905345         0.343382
 0.004503    0.327563      118.978400

COMB DL-G2-1 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -3.207401   -87.852689        -0.555389
-0.004612   -0.611725   -51.171438
0.57738   -3.207401   -87.852689        -0.555389
-0.004612   -0.383089   -18.540067
0.71825   -3.207401   -87.852689        -0.555389
-0.004612   -0.154286    -4.642530
0.85913   -3.207401   -87.852689        -0.555389
-0.004612   -0.065597    -3.040221
1.00000   -3.207401   -87.852689        -0.555389
-0.004612   -0.196245    -2.651733

COMB DL-G2-2 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    8.196947       17.590133        0.478487
 0.004182    0.532379       60.398651
0.57738    8.196947       17.590133        0.478487
 0.004182    0.331212       57.123290
0.71825    8.196947       17.590133        0.478487
 0.004182    0.130145       63.660268
0.85913    8.196947       17.590133        0.478487
 0.004182    0.136763       89.020462
1.00000    8.196947       17.590133        0.478487
 0.004182    0.501349      124.241929

COMB DL-G2-2 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -2.899742 -113.636446        -0.870535
-0.004912   -0.966019   -97.549527
0.57738   -2.899742 -113.636446        -0.870535
-0.004912   -0.605058   -53.729093
0.71825   -2.899742 -113.636446        -0.870535
-0.004912   -0.244368   -27.254575
0.85913   -2.899742 -113.636446        -0.870535
-0.004912   -0.083204   -14.076563
1.00000   -2.899742 -113.636446        -0.870535
-0.004912   -0.270575   -13.373044

COMB DL-G2-3 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    8.311255       75.789641        1.125351
 0.003536    1.255649      172.801700
0.57738    8.311255       75.789641        1.125351
 0.003536    0.782626      144.465623
0.71825    8.311255       75.789641        1.125351
 0.003536    0.310153      122.923926
0.85913    8.311255       75.789641        1.125351
 0.003536    0.236065      115.995570
1.00000    8.311255       75.789641        1.125351
 0.003536    0.920072      118.159008

COMB DL-G2-3 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -8.771163 -105.558285        -1.629749
-0.003389   -1.818844 -112.171842
0.57738   -8.771163 -105.558285        -1.629749
-0.003389   -1.137752   -70.937900
0.71825   -8.771163 -105.558285        -1.629749
-0.003389   -0.456124   -41.391406
0.85913   -8.771163 -105.558285        -1.629749
-0.003389   -0.168083   -24.418665
1.00000   -8.771163 -105.558285        -1.629749
-0.003389   -0.281566   -18.753086
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2100

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    9.068318       72.238939        1.066815
 0.002964    1.189287      165.275404
0.57738    9.068318       72.238939        1.066815
 0.002964    0.740433      137.933644
0.71825    9.068318       72.238939        1.066815
 0.002964    0.292728      116.346690
0.85913    9.068318       72.238939        1.066815
 0.002964    0.228837      106.929212
1.00000    9.068318       72.238939        1.066815
 0.002964    0.896535      105.188243

COMB DL-G2-4 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -8.223467   -96.500138        -1.591601
-0.003283   -1.777261  -131.679502
0.57738   -8.223467   -96.500138        -1.591601
-0.003283   -1.111664   -93.897055
0.71825   -8.223467   -96.500138        -1.591601
-0.003283   -0.445843   -65.956672
0.85913   -8.223467   -96.500138        -1.591601
-0.003283   -0.158859   -48.324992
1.00000   -8.223467   -96.500138        -1.591601
-0.003283   -0.598946   -40.468177

COMB DL-G3-1 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    2.826617       14.695030        0.203767
 4.09E-06    0.224904       36.501493
0.57738    2.826617       14.695030        0.203767
 4.09E-06    0.138686       30.516332
0.71825    2.826617       14.695030        0.203767
 4.09E-06    0.053660       24.631237
0.85913    2.826617       14.695030        0.203767
 4.09E-06    0.048921       18.795621
1.00000    2.826617       14.695030        0.203767
 4.09E-06    0.198462       13.036387

COMB DL-G3-1 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -1.997353   -11.392268        -0.357930
-0.000677   -0.401685   -57.727520
0.57738   -1.997353   -11.392268        -0.357930
-0.000677   -0.251304   -53.233692
0.71825   -1.997353   -11.392268        -0.357930
-0.000677   -0.101468   -48.858321
0.85913   -1.997353   -11.392268        -0.357930
-0.000677   -0.030320   -44.533074
1.00000   -1.997353   -11.392268        -0.357930
-0.000677   -0.115236   -40.307058

COMB DL-G3-2 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    7.100594       23.313920        0.359732
 0.000130    0.398568       52.656106
0.57738    7.100594       23.313920        0.359732
 0.000130    0.246966       43.318135
0.71825    7.100594       23.313920        0.359732
 0.000130    0.096191       34.588877
0.85913    7.100594       23.313920        0.359732
 0.000130    0.089973       26.472792
1.00000    7.100594       23.313920        0.359732
 0.000130    0.360960       19.220936

COMB DL-G3-2 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -2.580130   -32.271166        -0.647580
-0.001305   -0.725243  -103.981053
0.57738   -2.580130   -32.271166        -0.647580
-0.001305   -0.453548   -91.123047
0.71825   -2.580130   -32.271166        -0.647580
-0.001305   -0.182039   -79.253106
0.85913   -2.580130   -32.271166        -0.647580
-0.001305   -0.052646   -68.532227
1.00000   -2.580130   -32.271166        -0.647580
-0.001305   -0.202200   -58.759548
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2101

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    8.477244       24.433406        0.503878
 5.33E-06    0.559022       67.606564
0.57738    8.477244       24.433406        0.503878
 5.33E-06    0.346801       59.585279
0.71825    8.477244       24.433406        0.503878
 5.33E-06    0.135349       53.125497
0.85913    8.477244       24.433406        0.503878
 5.33E-06    0.128757       54.749502
1.00000    8.477244       24.433406        0.503878
 5.33E-06    0.529365       65.215117

COMB DL-G3-3 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -3.025500   -75.092326        -0.955275
-0.001396   -1.072792  -130.965652
0.57738   -3.025500   -75.092326        -0.955275
-0.001396   -0.671653  -100.831520
0.71825   -3.025500   -75.092326        -0.955275
-0.001396   -0.270038   -72.162842
0.85913   -3.025500   -75.092326        -0.955275
-0.001396   -0.072065   -57.207715
1.00000   -3.025500   -75.092326        -0.955275
-0.001396   -0.282101   -52.514532

COMB DL-G3-4 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    8.928074       63.660025        0.903393
 0.002847    1.005181      161.312943
0.57738    8.928074       63.660025        0.903393
 0.002847    0.592512      137.673324
0.71825    8.928074       63.660025        0.903393
 0.002847    0.246352      120.336258
0.85913    8.928074       63.660025        0.903393
 0.002847    0.204934      115.879537
1.00000    8.928074       63.660025        0.903393
 0.002847    0.799128      118.812817

COMB DL-G3-4 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -7.693617   -96.235284        -1.417416
-0.003613   -1.582825  -134.496800
0.57738   -7.693617   -96.235284        -1.417416
-0.003613   -0.990304   -96.996684
0.71825   -7.693617   -96.235284        -1.417416
-0.003613   -0.397803   -70.246247
0.85913   -7.693617   -96.235284        -1.417416
-0.003613   -0.137605   -54.612471
1.00000   -7.693617   -96.235284        -1.417416
-0.003613   -0.508395   -47.727652

COMB      DB ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    10.015340      87.819760        0.929696
 0.007814    1.039608      175.976518
0.57738    10.015340      87.819760        0.929696
 0.007814    0.649556      145.905778
0.71825    10.015340      87.819760        0.929696
 0.007814    0.259492      123.905541
0.85913    10.015340      87.819760        0.929696
 0.007814    0.202632      114.207672
1.00000    10.015340      87.819760        0.929696
 0.007814    0.776347      123.262656

COMB      DB ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -12.005831 -129.354714        -1.362623
-0.006290   -1.513214  -136.548875
0.57738   -12.005831 -129.354714        -1.362623
-0.006290   -0.947077  -102.454937
0.71825   -12.005831 -129.354714        -1.362623
-0.006290   -0.381143   -74.998130
0.85913   -12.005831 -129.354714        -1.362623
-0.006290   -0.141735   -64.304665
1.00000   -12.005831 -129.354714        -1.362623
-0.006290   -0.520602   -54.075316
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2102

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    10.504927      79.643001        1.410472
 0.007707    1.574756      172.801700
0.57738    10.504927      79.643001        1.410472
 0.007707    0.982362      144.465623
0.71825    10.504927      79.643001        1.410472
 0.007707    0.391108      122.923926
0.85913    10.504927      79.643001        1.410472
 0.007707    0.286627      115.995570
1.00000    10.504927      79.643001        1.410472
 0.007707    1.095179      124.241929

COMB      DL ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -10.828627 -121.229237        -1.926731
-0.006283   -2.145287  -138.011392
0.57738   -10.828627 -121.229237        -1.926731
-0.006283   -1.341257  -100.831520
0.71825   -10.828627 -121.229237        -1.926731
-0.006283   -0.537021   -79.253106
0.85913   -10.828627 -121.229237        -1.926731
-0.006283   -0.222165   -68.532227
1.00000   -10.828627 -121.229237        -1.926731
-0.006283   -0.794318   -58.759548

COMB      CAR ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    10.504927      87.819760        1.410472
 0.007814    1.574756      175.976518
0.57738    10.504927      87.819760        1.410472
 0.007814    0.982362      145.905778
0.71825    10.504927      87.819760        1.410472
 0.007814    0.391108      123.905541
0.85913    10.504927      87.819760        1.410472
 0.007814    0.286627      115.995570
1.00000    10.504927      87.819760        1.410472
 0.007814    1.095179      124.241929

COMB      CAR ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -12.005831 -129.354714        -1.926731
-0.006290   -2.145287  -138.011392
0.57738   -12.005831 -129.354714        -1.926731
-0.006290   -1.341257  -102.454937
0.71825   -12.005831 -129.354714        -1.926731
-0.006290   -0.537021   -79.253106
0.85913   -12.005831 -129.354714        -1.926731
-0.006290   -0.222165   -68.532227
1.00000   -12.005831 -129.354714        -1.926731
-0.006290   -0.794318   -58.759548

COMB      DESIGN ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.43651    10.504927      87.819760        1.410472
 0.007814    1.574756      175.976518
0.57738    10.504927      87.819760        1.410472
 0.007814    0.982362      145.905778
0.71825    10.504927      87.819760        1.410472
 0.007814    0.391108      123.905541
0.85913    10.504927      87.819760        1.410472
 0.007814    0.286627      115.995570
1.00000    10.504927      87.819760        1.410472
 0.007814    1.095179      124.241929

COMB      DESIGN ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.43651   -12.005831 -129.354714        -1.926731
-0.006290   -2.145287  -138.011392
0.57738   -12.005831 -129.354714        -1.926731
-0.006290   -1.341257  -102.454937
0.71825   -12.005831 -129.354714        -1.926731
-0.006290   -0.537021   -79.253106
0.85913   -12.005831 -129.354714        -1.926731
-0.006290   -0.222165   -68.532227
1.00000   -12.005831 -129.354714        -1.926731
-0.006290   -0.794318   -58.759548
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2103

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      185 ================= LENGTH
=     2.977259

COMB DB-G1-1 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.00000    1.901836       58.931640        0.673963
 0.001395    0.379404        1.873057
0.14084    1.901836       58.931640        0.673963
 0.001395    0.096798        2.806540
0.28168    1.901836       58.931640        0.673963
 0.001395    0.219820        9.428205
0.42252    1.901836       58.931640        0.673963
 0.001395    0.551048       16.611362
0.56336    1.901836       58.931640        0.673963
 0.001395    0.882352       23.986589

COMB DB-G1-1 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.00000   -7.315064   -17.916777        -0.790133
-7.36E-06   -0.442905   -23.025544
0.14084   -7.315064   -17.916777        -0.790133
-7.36E-06   -0.111669   -47.191504
0.28168   -7.315064   -17.916777        -0.790133
-7.36E-06   -0.185800   -71.833574
0.42252   -7.315064   -17.916777        -0.790133
-7.36E-06   -0.468403   -96.485474
0.56336   -7.315064   -17.916777        -0.790133
-7.36E-06   -0.751005  -121.163350

COMB DB-G1-2 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.00000    2.851348       153.157324       0.940978
 0.008062    0.529407       114.463224
0.14084    2.851348       153.157324       0.940978
 0.008062    0.143169        91.575354
0.28168    2.851348       153.157324       0.940978
 0.008062    0.342079        73.814040
0.42252    2.851348       153.157324       0.940978
 0.008062    0.855400        76.224800
0.56336    2.851348       153.157324       0.940978
 0.008062    1.370119        91.167310

COMB DB-G1-2 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.00000   -15.388668   -41.301505        -1.250268
-0.006086   -0.727020   -13.087639
0.14084   -15.388668   -41.301505        -1.250268
-0.006086   -0.203894   -44.666549
0.28168   -15.388668   -41.301505        -1.250268
-0.006086   -0.259712   -77.115175
0.42252   -15.388668   -41.301505        -1.250268
-0.006086   -0.654290  -113.811165
0.56336   -15.388668   -41.301505        -1.250268
-0.006086   -1.048856  -171.583673

COMB DB-G1-3 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.00000    6.658065       128.211617       0.893661
 0.005818    0.502581       108.331012
0.14084    6.658065       128.211617       0.893661
 0.005818    0.133342       113.668214
0.28168    6.658065       128.211617       0.893661
 0.005818    0.382966       124.159428
0.42252    6.658065       128.211617       0.893661
 0.005818    0.960363       148.684371
0.56336    6.658065       128.211617       0.893661
 0.005818    1.538724       181.815348

COMB DB-G1-3 ---------- MIN

REL DIST          P              V2              V3
        T         M2             M3
0.00000   -12.874070   -83.269747        -1.394786
-0.004271   -0.800883   -13.687905
0.14084   -12.874070   -83.269747        -1.394786
-0.004271   -0.216839   -45.323197
0.28168   -12.874070   -83.269747        -1.394786
-0.004271   -0.246707   -77.533808
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2104

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
        T         M2             M3
0.42252   -12.874070   -83.269747        -1.394786
-0.004271   -0.621542  -112.588597
0.56336   -12.874070   -83.269747        -1.394786
-0.004271   -0.996286  -161.969623

COMB DB-G1-4 ---------- MAX

REL DIST          P              V2              V3
        T         M2             M3
0.00000    8.454501       113.576827       0.836245
```

```
 0.004834    0.470803   93.333444
 0.14084     8.454501  113.576827     0.836245
 0.004834    0.124697   95.437795
 0.28168     8.454501  113.576827     0.836245
 0.004834    0.361648  105.532845
 0.42252     8.454501  113.576827     0.836245
 0.004834    0.907227  127.991773
 0.56336     8.454501  113.576827     0.836245
 0.004834    1.453603  157.764832

COMB DB-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000 -11.344541  -80.947822    -1.315872
-0.004179  -0.753592  -32.492146
 0.14084 -11.344541  -80.947822    -1.315872
-0.004179  -0.202434  -55.010386
 0.28168 -11.344541  -80.947822    -1.315872
-0.004179  -0.230362  -78.118173
 0.42252 -11.344541  -80.947822    -1.315872
-0.004179  -0.581103 -104.841017
 0.56336 -11.344541  -80.947822    -1.315872
-0.004179  -0.931768 -144.651552

COMB DB-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.257840   64.737706     0.199575
 0.005314  0.112080  121.521148
 0.14084   2.257840   64.737706     0.199575
 0.005314  0.035344  113.478049
 0.28168   2.257840   64.737706     0.199575
 0.005314  0.121655  105.560384
 0.42252   2.257840   64.737706     0.199575
 0.005314  0.303771  113.805718
 0.56336   2.257840   64.737706     0.199575
 0.005314  0.487060  132.460044

COMB DB-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -5.897435  -49.038100    -0.456148
-0.005088  -0.488859
 0.14084  -5.897435  -49.038100    -0.456148
-0.005088  -0.087694   -2.600265
 0.28168  -5.897435  -49.038100    -0.456148
-0.005088  -0.055215   -3.249594
 0.42252  -5.897435  -49.038100    -0.456148
-0.005088  -0.138952   -7.393943
 0.56336  -5.897435  -49.038100    -0.456148
-0.005088  -0.222649  -29.114233

COMB DB-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   6.943571   67.252484     0.258322
 0.004946  0.145222  123.531642
 0.14084   6.943571   67.252484     0.258322
 0.004946  0.043205  126.315818
 0.28168   6.943571   67.252484     0.258322
 0.004946  0.187318  132.934620
 0.42252   6.943571   67.252484     0.258322
 0.004946  0.469739  155.174911
 0.56336   6.943571   67.252484     0.258322
 0.004946  0.753230  187.204587

COMB DB-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -5.375245  -81.531975    -0.693800
-0.005177  -0.410534  -14.205727
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2105

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.14084  -5.375245  -81.531975    -0.693800
-0.005177  -0.120441  -13.800648
 0.28168  -5.375245  -81.531975    -0.693800
-0.005177  -0.071231  -13.986915
 0.42252  -5.375245  -81.531975    -0.693800
-0.005177  -0.179670  -19.132662
 0.56336  -5.375245  -81.531975    -0.693800
-0.005177  -0.288009  -42.227544

COMB DB-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   7.440400  115.685699     0.698273
 0.004628  0.392686  116.596740
 0.14084   7.440400  115.685699     0.698273
 0.004628  0.104269  109.333974
 0.28168   7.440400  115.685699     0.698273
 0.004628  0.329151  122.811807
 0.42252   7.440400  115.685699     0.698273
 0.004628  0.823021  148.761286
 0.56336   7.440400  115.685699     0.698273
 0.004628  1.318717  182.215151

COMB DB-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000 -11.042095  -84.512057    -1.194723
-0.003624  -0.685202  -18.404867
 0.14084 -11.042095  -84.512057    -1.194723
-0.003624  -0.184953  -21.654829
 0.28168 -11.042095  -84.512057    -1.194723
-0.003624  -0.192739  -49.637925
 0.42252 -11.042095  -84.512057    -1.194723
-0.003624  -0.485645  -81.480551
 0.56336 -11.042095  -84.512057    -1.194723
-0.003624  -0.778460 -126.344895

COMB DB-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   8.477407  104.127469     0.675677
 0.003871  0.380338  102.246779
 0.14084   8.477407  104.127469     0.675677
 0.003871  0.100675   93.039009
 0.28168   8.477407  104.127469     0.675677
 0.003871  0.318881  102.817779
 0.42252   8.477407  104.127469     0.675677
 0.003871  0.800602  124.218479
 0.56336   8.477407  104.127469     0.675677
 0.003871  1.283004  151.864223

COMB DB-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -9.961235  -77.982376    -1.160977
-0.003788  -0.664320  -38.095939
 0.14084  -9.961235  -77.982376    -1.160977
-0.003788  -0.178065  -38.000955
 0.28168  -9.961235  -77.982376    -1.160977
-0.003788  -0.186165  -58.547561
 0.42252  -9.961235  -77.982376    -1.160977
-0.003788  -0.469578  -82.053238
 0.56336  -9.961235  -77.982376    -1.160977
-0.003788  -0.752915 -116.244499

COMB DB-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   3.033055   12.179718     0.150871
 1.16E-05  0.085175   10.038166
 0.14084   3.033055   12.179718     0.150871
 1.16E-05  0.021903    5.708176
 0.28168   3.033055   12.179718     0.150871
 1.16E-05  0.071847    2.697554
 0.42252   3.033055   12.179718     0.150871
 1.16E-05  0.181783    2.332709
 0.56336   3.033055   12.179718     0.150871
 1.16E-05  0.291708    2.874035
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2106

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -1.265136  -10.222305    -0.262177
-0.001048  -0.148031  -35.813629
 0.14084  -1.265136  -10.222305    -0.262177
-0.001048  -0.037984  -31.987349
 0.28168  -1.265136  -10.222305    -0.262177
-0.001048  -0.041350  -28.390071
 0.42252  -1.265136  -10.222305    -0.262177
-0.001048  -0.104613  -24.861677
 0.56336  -1.265136  -10.222305    -0.262177
-0.001048  -0.167875  -21.448015

COMB DB-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   7.012910   21.585084     0.257047
 0.000247  0.145490   16.866651
 0.14084   7.012910   21.585084     0.257047
 0.000247  0.037948   12.088962
 0.28168   7.012910   21.585084     0.257047
 0.000247  0.124705   13.082201
 0.42252   7.012910   21.585084     0.257047
 0.000247  0.314758   19.598577
 0.56336   7.012910   21.585084     0.257047
 0.000247  0.504836   27.093557

COMB DB-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -2.068805  -30.329513    -0.454043
-0.001926  -0.256695  -54.092330
 0.14084  -2.068805  -30.329513    -0.454043
-0.001926  -0.066150  -46.698378
 0.28168  -2.068805  -30.329513    -0.454043
-0.001926  -0.070080  -40.249993
 0.42252  -2.068805  -30.329513    -0.454043
-0.001926  -0.177867  -36.155903
 0.56336  -2.068805  -30.329513    -0.454043
-0.001926  -0.285656  -34.759201

COMB DB-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   9.404813   24.343394     0.301601
 0.000325  0.169995   58.833842
 0.14084   9.404813   24.343394     0.301601
 0.000325  0.043743   77.542951
 0.28168   9.404813   24.343394     0.301601
 0.000325  0.203047  100.911585
 0.42252   9.404813   24.343394     0.301601
 0.000325  0.512433  129.105781
 0.56336   9.404813   24.343394     0.301601
 0.000325  0.821870  158.329689

COMB DB-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -2.416306  -81.449067    -0.739122
-0.001636  -0.417882  -48.579772
 0.14084  -2.416306  -81.449067    -0.739122
-0.001636  -0.107871  -44.754459
 0.28168  -2.416306  -81.449067    -0.739122
-0.001636  -0.082835  -41.117326
 0.42252  -2.416306  -81.449067    -0.739122
-0.001636  -0.209343  -39.200424
 0.56336  -2.416306  -81.449067    -0.739122
-0.001636  -0.335829  -39.766257

COMB DB-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   8.430225   98.630166     0.565143
 0.004090  0.318059  117.012856
 0.14084   8.430225   98.630166     0.565143
 0.004090  0.085431  103.538550
 0.28168   8.430225   98.630166     0.565143
 0.004090  0.288384  105.192158
 0.42252   8.430225   98.630166     0.565143
 0.004090  0.772346  123.407797
 0.56336   8.430225   98.630166     0.565143
 0.004090  1.161059  149.502784
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2107

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -9.007348  -75.514394    -1.053951
-0.004523  -0.606805  -43.931744
 0.14084  -9.007348  -75.514394    -1.053951
-0.004523  -0.165398  -38.340244
 0.28168  -9.007348  -75.514394    -1.053951
-0.004523  -0.155748  -49.290077
 0.42252  -9.007348  -75.514394    -1.053951
-0.004523  -0.392812  -66.737509
 0.56336  -9.007348  -75.514394    -1.053951
-0.004523  -0.629801  -96.794982

COMB DL-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   3.247500   53.904934     1.020143
 0.001453  0.574065   2.054383
 0.14084   3.247500   53.904934     1.020143
 0.001453  0.146573   3.002197
 0.28168   3.247500   53.904934     1.020143
 0.001453  0.319839   9.689682
 0.42252   3.247500   53.904934     1.020143
 0.001453  0.799793   18.460069
 0.56336   3.247500   53.904934     1.020143
 0.001453  1.279594   27.289373

COMB DL-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -6.288518  -21.667397    -1.144623
-4.35E-06  -0.640212  -34.122605
 0.14084  -6.288518  -21.667397    -1.144623
-4.35E-06  -0.159523  -50.567284
 0.28168  -6.288518  -21.667397    -1.144623
-4.35E-06  -0.279891  -70.910142
 0.42252  -6.288518  -21.667397    -1.144623
-4.35E-06  -0.707377  -93.290763
 0.56336  -6.288518  -21.667397    -1.144623
-4.35E-06  -1.135847 -115.689136

COMB DL-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   3.821292  142.394507     1.428326
 0.008212  0.806892  119.880989
 0.14084   3.821292  142.394507     1.428326
 0.008212  0.226481   95.895092
 0.28168   3.821292  142.394507     1.428326
 0.008212  0.492142   78.116989
 0.42252   3.821292  142.394507     1.428326
 0.008212  1.232964   80.865270
 0.56336   3.821292  142.394507     1.428326
 0.008212  1.974481   96.499978

COMB DL-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000 -14.720100  -44.124688    -1.788240
-0.006086  -1.030522  -25.906246
 0.14084 -14.720100  -44.124688    -1.788240
-0.006086  -0.281618  -47.118699
 0.28168 -14.720100  -44.124688    -1.788240
-0.006086  -0.392849  -73.182578
 0.42252 -14.720100  -44.124688    -1.788240
-0.006086  -0.991369 -106.002775
 0.56336 -14.720100  -44.124688    -1.788240
-0.006086  -1.591217 -163.095345

COMB DL-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   6.957337  121.468293     1.421457
 0.006134  0.800968  118.967950
 0.14084   6.957337  121.468293     1.421457
 0.006134  0.217408  119.459059
 0.28168   6.957337  121.468293     1.421457
 0.006134  0.537021  125.797346
 0.42252   6.957337  121.468293     1.421457
 0.006134  1.348266  147.108658
 0.56336   6.957337  121.468293     1.421457
 0.006134  2.159550  171.773339
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2108

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -12.459162  -78.842764    -1.947449
-0.004468  -1.111386  -25.084326
 0.14084  -12.459162  -78.842764    -1.947449
-0.004468  -0.294875  -47.212614
 0.28168  -12.459162  -78.842764    -1.947449
-0.004468  -0.389422  -73.610168
 0.42252  -12.459162  -78.842764    -1.947449
-0.004468  -0.986248 -105.130483
 0.56336  -12.459162  -78.842764    -1.947449
-0.004468  -1.583337 -153.880971

COMB DL-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   8.731412  109.008431     1.317075
 0.005097  0.742460  102.823072
 0.14084   8.731412  109.008431     1.317075
 0.005097  0.200493  100.579000
 0.28168   8.731412  109.008431     1.317075
 0.005097  0.511491  106.572627
 0.42252   8.731412  109.008431     1.317075
 0.005097  1.284517  126.202697
 0.56336   8.731412  109.008431     1.317075
 0.005097  2.057358  153.710135

COMB DL-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000 -11.005536  -77.359905    -1.854393
-0.004302  -1.055727  -42.195705
 0.14084 -11.005536  -77.359905    -1.854393
-0.004302  -0.278524  -57.030650
 0.28168 -11.005536  -77.359905    -1.854393
-0.004302  -0.359719  -77.332003
 0.42252 -11.005536  -77.359905    -1.854393
-0.004302  -0.912498 -102.778600
 0.56336 -11.005536  -77.359905    -1.854393
-0.004302  -1.465670 -142.739287

COMB DL-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   1.789387   54.068513     0.323913
 0.004552  0.183675  119.003012
 0.14084   1.789387   54.068513     0.323913
 0.004552  0.060763  114.176504
 0.28168   1.789387   54.068513     0.323913
 0.004552  0.161065  109.663213
 0.42252   1.789387   54.068513     0.323913
 0.004552  0.261469  117.040140
 0.56336   1.789387   54.068513     0.323913
 0.004552  0.652461  135.217742

COMB DL-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -5.957154  -46.075984    -0.599736
-0.004264  -0.357381   -2.640833
 0.14084  -5.957154  -46.075984    -0.599736
-0.004264  -0.107172   -2.464819
 0.28168  -5.957154  -46.075984    -0.599736
-0.004264  -0.089609   -2.797125
 0.42252  -5.957154  -46.075984    -0.599736
-0.004264  -0.225224   -6.480058
 0.56336  -5.957154  -46.075984    -0.599736
-0.004264  -0.360976  -27.286396

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   6.193882   59.678114     0.466798
 0.004344  0.264255  124.259664
 0.14084   6.193882   59.678114     0.466798
 0.004344  0.080064  127.660635
 0.28168   6.193882   59.678114     0.466798
 0.004344  0.250116  134.379129
 0.42252   6.193882   59.678114     0.466798
 0.004344  0.630654  154.181350
 0.56336   6.193882   59.678114     0.466798
 0.004344  1.010876  182.760217
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2109

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -5.532189  -73.780867    -0.919433
-0.004472  -0.534427  -13.359671
 0.14084  -5.532189  -73.780867    -0.919433
-0.004472  -0.150452  -13.290648
 0.28168  -5.532189  -73.780867    -0.919433
-0.004472  -0.126902  -14.923094
 0.42252  -5.532189  -73.780867    -0.919433
-0.004472  -0.323217  -20.309248
 0.56336  -5.532189  -73.780867    -0.919433
-0.004472  -0.519391  -42.266223

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   7.025407  102.642920     1.124839
 0.003966  0.633157  118.145112
 0.14084   7.025407  102.642920     1.124839
 0.003966  0.168911  110.302090
 0.28168   7.025407  102.642920     1.124839
 0.003966  0.459641  124.487911
 0.42252   7.025407  102.642920     1.124839
 0.003966  1.156294  149.829308
 0.56336   7.025407  102.642920     1.124839
 0.003966  1.852287  181.268959

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000 -10.455380  -79.863237    -1.668156
-0.002888  -0.947853  -18.729969
 0.14084 -10.455380  -79.863237    -1.668156
-0.002888  -0.248222  -20.097238
 0.28168 -10.455380  -79.863237    -1.668156
-0.002888  -0.308084  -45.047852
 0.42252 -10.455380  -79.863237    -1.668156
-0.002888  -0.780311  -74.496376
 0.56336 -10.455380  -79.863237    -1.668156
-0.002888  -1.252189 -114.995583

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   8.003593   94.778316     1.061561
 0.003323  0.597438  105.183802
 0.14084   8.003593   94.778316     1.061561
 0.003323  0.158173   94.984012
 0.28168   8.003593   94.778316     1.061561
 0.003323  0.449620  104.461783
 0.42252   8.003593   94.778316     1.061561
 0.003323  1.131717  125.282146
 0.56336   8.003593   94.778316     1.061561
 0.003323  1.813781  151.171297

COMB DL-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -9.647612  -74.897942    -1.633024
-0.003179  -0.926542  -40.456326
 0.14084  -9.647612  -74.897942    -1.633024
-0.003179  -0.241988  -38.479132
 0.28168  -9.647612  -74.897942    -1.633024
-0.003179  -0.289799  -57.056272
 0.42252  -9.647612  -74.897942    -1.633024
-0.003179  -0.734520  -80.955700
 0.56336  -9.647612  -74.897942    -1.633024
-0.003179  -1.181185 -114.075782

COMB DL-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.847455   14.712193     0.186006
 8.98E-06  0.103698   13.047009
 0.14084   2.847455   14.712193     0.186006
 8.98E-06  0.025940    7.625401
 0.28168   2.847455   14.712193     0.186006
 8.98E-06  0.103925    3.280489
 0.42252   2.847455   14.712193     0.186006
 8.98E-06  0.263710    2.840817
 0.56336   2.847455   14.712193     0.186006
 8.98E-06  0.423865    3.342907
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2110

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -2.014680  -11.340516    -0.381481
-0.001088  -0.215433  -40.317125
 0.14084  -2.014680  -11.340516    -0.381481
-0.001088  -0.055766  -36.238846
 0.28168  -2.014680  -11.340516    -0.381481
-0.001088  -0.050070  -32.655529
 0.42252  -2.014680  -11.340516    -0.381481
-0.001088  -0.127784  -32.423789
 0.56336  -2.014680  -11.340516    -0.381481
-0.001088  -0.206445  -32.700104

COMB DL-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   7.070530   24.564331     0.357007
 0.000171  0.200993   19.237651
 0.14084   7.070530   24.564331     0.357007
 0.000171  0.051751   13.417406
 0.28168   7.070530   24.564331     0.357007
 0.000171  0.184056   13.615828
 0.42252   7.070530   24.564331     0.357007
 0.000171  0.465098   15.770622
 0.56336   7.070530   24.564331     0.357007
 0.000171  0.746541   27.138685

COMB DL-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -2.680084  -31.142108    -0.670724
-0.001838  -0.377653  -58.776306
 0.14084  -2.680084  -31.142108    -0.670724
-0.001838  -0.096992  -51.061672
 0.28168  -2.680084  -31.142108    -0.670724
-0.001838  -0.095235  -46.865928
 0.42252  -2.680084  -31.142108    -0.670724
-0.001838  -0.244863  -47.170151
 0.56336  -2.680084  -31.142108    -0.670724
-0.001838  -0.395220  -48.854870

COMB DL-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   8.572526   24.366584     0.485020
 7.69E-06  0.270859   65.208402
 0.14084   8.572526   24.366584     0.485020
 7.69E-06  0.067985   81.424216
 0.28168   8.572526   24.366584     0.485020
 7.69E-06  0.276355  101.997061
 0.42252   8.572526   24.366584     0.485020
 7.69E-06  0.699257  127.431934
 0.56336   8.572526   24.366584     0.485020
 7.69E-06  1.121820  153.751987

COMB DL-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -3.053356  -75.495836    -1.006615
-0.001374  -0.565595  -52.516679
 0.14084  -3.053356  -75.495836    -1.006615
-0.001374  -0.143592  -48.318645
 0.28168  -3.053356  -75.495836    -1.006615
-0.001374  -0.130620  -46.162306
 0.42252  -3.053356  -75.495836    -1.006615
-0.001374  -0.334189  -47.857446
 0.56336  -3.053356  -75.495836    -1.006615
-0.001374  -0.538210  -50.260716

COMB DL-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   7.774397   88.155183     0.880758
 0.003207  0.494854  118.817480
 0.14084   7.774397   88.155183     0.880758
 0.003207  0.133283  106.566848
 0.28168   7.774397   88.155183     0.880758
 0.003207  0.404346  109.292650
 0.42252   7.774397   88.155183     0.880758
 0.003207  1.019938  127.191754
 0.56336   7.774397   88.155183     0.880758
 0.003207  1.635458  151.786098
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2111
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-9.243792	-72.801626	-1.474781
-0.003547		-0.839726	-47.720860	
0.14084		-9.243792	-72.801626	-1.474781
-0.003547		-0.211850	-41.585790	
0.28168		-9.243792	-72.801626	-1.474781
-0.003547		-0.240503	-51.000483	
0.42252		-9.243792	-72.801626	-1.474781
-0.003547		-0.610061	-69.603226	
0.56336		-9.243792	-72.801626	-1.474781
-0.003547		-0.979848	-98.781028	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.404813	153.157324	0.940978
0.008062		0.529407	123.531642	
0.14084		9.404813	153.157324	0.940978
0.008062		0.143169	126.315818	
0.28168		9.404813	153.157324	0.940978
0.008062		0.382966	132.934620	
0.42252		9.404813	153.157324	0.940978
0.008062		0.960363	155.171911	
0.56336		9.404813	153.157324	0.940978
0.008062		1.538724	187.204587	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.388668	-84.512057	-1.394786
-0.006086		-0.800883	-54.092330	
0.14084		-15.388668	-84.512057	-1.394786
-0.006086		-0.216839	-55.010386	
0.28168		-15.388668	-84.512057	-1.394786
-0.006086		-0.259712	-78.118173	
0.42252		-15.388668	-84.512057	-1.394786
-0.006086		-0.654290	-113.811165	
0.56336		-15.388668	-84.512057	-1.394786
-0.006086		-1.048856	-171.583673	

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.731412	142.394507	1.428326
0.008212		0.806892	124.259664	
0.14084		8.731412	142.394507	1.428326
0.008212		0.226481	127.660635	
0.28168		8.731412	142.394507	1.428326
0.008212		0.537021	134.379129	
0.42252		8.731412	142.394507	1.428326
0.008212		1.348266	154.181350	
0.56336		8.731412	142.394507	1.428326
0.008212		2.158950	182.760217	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-14.720100	-79.863237	-1.947449
-0.006086		-1.111386	-58.776306	
0.14084		-14.720100	-79.863237	-1.947449
-0.006086		-0.294875	-57.030650	
0.28168		-14.720100	-79.863237	-1.947449
-0.006086		-0.392849	-77.332003	
0.42252		-14.720100	-79.863237	-1.947449
-0.006086		-0.991369	-106.002775	
0.56336		-14.720100	-79.863237	-1.947449
-0.006086		-1.591217	-163.095345	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.404813	153.157324	1.428326
0.008212		0.806892	124.259664	
0.14084		9.404813	153.157324	1.428326
0.008212		0.226481	127.660635	
0.28168		9.404813	153.157324	1.428326
0.008212		0.537021	134.379129	
0.42252		9.404813	153.157324	1.428326
0.008212		1.348266	155.171911	
0.56336		9.404813	153.157324	1.428326
0.008212		2.158950	187.204587	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2112
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.388668	-84.512057	-1.947449
-0.006086		-1.111386	-58.776306	
0.14084		-15.388668	-84.512057	-1.947449
-0.006086		-0.294875	-57.030650	
0.28168		-15.388668	-84.512057	-1.947449
-0.006086		-0.392849	-78.118173	
0.42252		-15.388668	-84.512057	-1.947449
-0.006086		-0.991369	-113.811165	
0.56336		-15.388668	-84.512057	-1.947449
-0.006086		-1.591217	-171.583673	

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		9.404813	153.157324	1.428326
0.008212		0.806892	124.259664	
0.14084		9.404813	153.157324	1.428326
0.008212		0.226481	127.660635	
0.28168		9.404813	153.157324	1.428326
0.008212		0.537021	134.379129	
0.42252		9.404813	153.157324	1.428326
0.008212		1.348266	155.171911	
0.56336		9.404813	153.157324	1.428326
0.008212		2.158950	187.204587	

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-15.388668	-84.512057	-1.947449
-0.006086		-1.111386	-58.776306	
0.14084		-15.388668	-84.512057	-1.947449
-0.006086		-0.294875	-57.030650	
0.28168		-15.388668	-84.512057	-1.947449
-0.006086		-0.392849	-78.118173	
0.42252		-15.388668	-84.512057	-1.947449
-0.006086		-0.991369	-113.811165	
0.56336		-15.388668	-84.512057	-1.947449
-0.006086		-1.591217	-171.583673	

ELEM 186 ========== LENGTH = 2.977215

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		0.428675	72.371130	0.657521
0.001155		0.735152	98.974853	
0.57749		0.428675	72.371130	0.657521
0.001155		0.459451	68.678551	
0.71832		0.428675	72.371130	0.657521
0.001155		0.183750	38.459616	
0.85916		0.428675	72.371130	0.657521
0.001155		0.107054	8.541351	
1.00000		0.428675	72.371130	0.657521
0.001155		0.425743	2.181084	

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-10.228787	-9.758913	-0.760146
-0.000157		-0.849189	-21.067145	
0.57749		-10.228787	-9.758913	-0.760146
-0.000157		-0.530473	-17.107239	
0.71832		-10.228787	-9.758913	-0.760146
-0.000157		-0.211812	-13.532656	
0.85916		-10.228787	-9.758913	-0.760146
-0.000157		-0.091867	-10.169705	
1.00000		-10.228787	-9.758913	-0.760146
-0.000157		-0.367651	-23.663357	

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		5.035773	103.279216	0.915361
0.007609		1.023231	191.180077	
0.57749		5.035773	103.279216	0.915361
0.007609		0.639416	150.652041	
0.71832		5.035773	103.279216	0.915361
0.007609		0.255588	124.493269	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2113
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.85916		5.035773	103.279216	0.915361
0.007609		0.190695	115.679646	
1.00000		5.035773	103.279216	0.915361
0.007609		0.680030	121.304250	

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-12.902478	-93.560515	-1.170489
-0.006311		-1.283257	-51.063004	
0.57749		-12.902478	-93.560515	-1.170489
-0.006311		-0.796889	-25.962520	
0.71832		-12.902478	-93.560515	-1.170489
-0.006311		-0.322495	-18.931295	
0.85916		-12.902478	-93.560515	-1.170489
-0.006311		-0.137554	-14.104355	
1.00000		-12.902478	-93.560515	-1.170489
-0.006311		-0.512026	-11.970782	

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		8.389903	93.252121	0.848329
0.005613		0.948657	182.165873	
0.57749		8.389903	93.252121	0.848329
0.005613		0.592984	146.069380	
0.71832		8.389903	93.252121	0.848329
0.005613		0.237243	120.397693	
0.85916		8.389903	93.252121	0.848329
0.005613		0.182972	108.112841	
1.00000		8.389903	93.252121	0.848329
0.005613		0.686002	119.421819	

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-11.897921	-120.975804	-1.203035
-0.004746		-1.331808	-95.979390	
0.57749		-11.897921	-120.975804	-1.203035
-0.004746		-0.830490	-54.428669	
0.71832		-11.897921	-120.975804	-1.203035
-0.004746		-0.337406	-23.627636	
0.85916		-11.897921	-120.975804	-1.203035
-0.004746		-0.125921	-14.153916	
1.00000		-11.897921	-120.975804	-1.203035
-0.004746		-0.475266	-11.582010	

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		9.926339	81.390985	0.810833
0.004662		0.906248	160.560276	
0.57749		9.926339	81.390985	0.810833
0.004662		0.566242	128.952801	
0.71832		9.926339	81.390985	0.810833
0.004662		0.226161	106.020286	
0.85916		9.926339	81.390985	0.810833
0.004662		0.176757	94.715321	
1.00000		9.926339	81.390985	0.810833
0.004662		0.665640	102.078765	

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-10.495121	-116.669412	-1.168612
-0.004270		-1.294417	-127.667167	
0.57749		-10.495121	-116.669412	-1.168612
-0.004270		-0.806990	-86.620601	
0.71832		-10.495121	-116.669412	-1.168612
-0.004270		-0.326402	-54.935323	
0.85916		-10.495121	-116.669412	-1.168612
-0.004270		-0.119820	-41.338967	
1.00000		-10.495121	-116.669412	-1.168612
-0.004270		-0.453809	-33.065728	

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		5.979110	9.262251	0.187626
0.005496		0.209903	50.752443	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2114
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57749		5.979110	9.262251	0.187626
0.005496		0.131222	50.132858	
0.71832		5.979110	9.262251	0.187626
0.005496		0.052514	61.992297	
0.85916		5.979110	9.262251	0.187626
0.005496		0.071679	90.872036	
1.00000		5.979110	9.262251	0.187626
0.005496		0.224236	131.266891	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-0.770151	-101.405204	-0.366954
-0.005495		-0.391286	-45.723668	
0.57749		-0.770151	-101.405204	-0.366954
-0.005495		-0.241141	-15.245183	
0.71832		-0.770151	-101.405204	-0.366954
-0.005495		-0.101061	-3.637943	
0.85916		-0.770151	-101.405204	-0.366954
-0.005495		-0.033985	-2.353681	
1.00000		-0.770151	-101.405204	-0.366954
-0.005495		-0.104779	-2.158726	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		10.405139	9.875932	0.231694
0.005154		0.259530	55.125230	
0.57749		10.405139	9.875932	0.231694
0.005154		0.162337	54.404917	
0.71832		10.405139	9.875932	0.231694
0.005154		0.065046	65.613640	
0.85916		10.405139	9.875932	0.231694
0.005154		0.090372	92.726769	
1.00000		10.405139	9.875932	0.231694
0.005154		0.309738	135.749399	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-1.377150	-136.126990	-0.526729
-0.005578		-0.573693	-105.620813	
0.57749		-1.377150	-136.126990	-0.526729
-0.005578		-0.356239	-59.288358	
0.71832		-1.377150	-136.126990	-0.526729
-0.005578		-0.148422	-25.730357	
0.85916		-1.377150	-136.126990	-0.526729
-0.005578		-0.040306	-16.289161	
1.00000		-1.377150	-136.126990	-0.526729
-0.005578		-0.129026	-12.649256	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		9.506155	83.082956	0.665191
0.004396		0.743860	193.156007	
0.57749		9.506155	83.082956	0.665191
0.004396		0.464905	161.079504	
0.71832		9.506155	83.082956	0.665191
0.004396		0.185849	137.715660	
0.85916		9.506155	83.082956	0.665191
0.004396		0.154005	126.418612	
1.00000		9.506155	83.082956	0.665191
0.004396		0.579070	130.205520	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-9.266425	-119.364631	-1.016734
-0.004097		-1.126214	-107.288033	
0.57749		-9.266425	-119.364631	-1.016734
-0.004097		-0.702377	-64.933145	
0.71832		-9.266425	-119.364631	-1.016734
-0.004097		-0.285335	-31.996535	
0.85916		-9.266425	-119.364631	-1.016734
-0.004097		-0.098713	-21.445592	
1.00000		-9.266425	-119.364631	-1.016734
-0.004097		-0.371766	-15.859371	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2115
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		10.786356	73.806175	0.662729
0.003679		0.739995	172.709460	
0.57749		10.786356	73.806175	0.662729
0.003679		0.480279	144.068552	
0.71832		10.786356	73.806175	0.662729
0.003679		0.184086	122.697580	
0.85916		10.786356	73.806175	0.662729
0.003679		0.153045	111.418278	
1.00000		10.786356	73.806175	0.662729
0.003679		0.579302	112.672055	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-7.985877	-111.518455	-1.018872
-0.003737		-1.129562	-137.289135	
0.57749		-7.985877	-111.518455	-1.018872
-0.003737		-0.704438	-96.997514	
0.71832		-7.985877	-111.518455	-1.018872
-0.003737		-0.284977	-64.540261	
0.85916		-7.985877	-111.518455	-1.018872
-0.003737		-0.098716	-50.616070	
1.00000		-7.985877	-111.518455	-1.018872
-0.003737		-0.371508	-41.186894	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		4.534238	7.829117	0.178914
6.99E-06		0.197968	20.716301	
0.57749		4.534238	7.829117	0.178914
6.99E-06		0.122951	17.442306	
0.71832		4.534238	7.829117	0.178914
6.99E-06		0.048020	14.197141	
0.85916		4.534238	7.829117	0.178914
6.99E-06		-0.026855	11.012242	
1.00000		4.534238	7.829117	0.178914
6.99E-06		0.152612	7.875928	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-0.268917	-16.987434	-0.271008
-0.000482		-0.301927	-73.184575	
0.57749		-0.268917	-16.987434	-0.271008
-0.000482		-0.188297	-66.234825	
0.71832		-0.268917	-16.987434	-0.271008
-0.000482		-0.074665	-59.310508	
0.85916		-0.268917	-16.987434	-0.271008
-0.000482		-0.027144	-52.411512	
1.00000		-0.268917	-16.987434	-0.271008
-0.000482		-0.102108	-45.581333	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		8.384077	11.103148	0.292334
0.000203		0.324701	28.340113	
0.57749		8.384077	11.103148	0.292334
0.000203		0.202121	24.115912	
0.71832		8.384077	11.103148	0.292334
0.000203		0.079516	20.443546	
0.85916		8.384077	11.103148	0.292334
0.000203		0.066890	17.368533	
1.00000		8.384077	11.103148	0.292334
0.000203		0.257769	14.957276	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-1.126310	-44.090868	-0.455071
-0.001078		-0.505472	-128.543734	
0.57749		-1.126310	-44.090868	-0.455071
-0.001078		-0.314800	-111.113536	
0.71832		-1.126310	-44.090868	-0.455071
-0.001078		-0.124467	-94.702056	
0.85916		-1.126310	-44.090868	-0.455071
-0.001078		-0.043539	-78.683335	
1.00000		-1.126310	-44.090868	-0.455071
-0.001078		-0.165744	-63.225410	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2116
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		11.697062	10.659715	0.310496
0.000548		0.345750	47.385237	
0.57749		11.697062	10.659715	0.310496
0.000548		0.215521	44.548131	
0.71832		11.697062	10.659715	0.310496
0.000548		0.085161	43.540061	
0.85916		11.697062	10.659715	0.310496
0.000548		0.084299	46.794775	
1.00000		11.697062	10.659715	0.310496
0.000548		0.340284	65.085215	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-0.997708	-97.655448	-0.611508
-0.001481		-0.685361	-159.168563	
0.57749		-0.997708	-97.655448	-0.611508
-0.001481		-0.429230	-119.261926	
0.71832		-0.997708	-97.655448	-0.611508
-0.001481		-0.173841	-81.562870	
0.85916		-0.997708	-97.655448	-0.611508
-0.001481		-0.045939	-66.936465	
1.00000		-0.997708	-97.655448	-0.611508
-0.001481		-0.175054	-57.071831	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		12.064658	59.062065	0.563050
0.003935		0.628052	155.619315	
0.57749		12.064658	59.062065	0.563050
0.003935		0.391931	133.343191	
0.71832		12.064658	59.062065	0.563050
0.003935		0.155718	119.538078	
0.85916		12.064658	59.062065	0.563050
0.003935		0.141378	117.241672	
1.00000		12.064658	59.062065	0.563050
0.003935		0.525765	127.020441	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-5.619443	-117.374304	-0.919354
-0.004351		-1.016191	-148.339821	
0.57749		-5.619443	-117.374304	-0.919354
-0.004351		-0.633160	-106.768326	
0.71832		-5.619443	-117.374304	-0.919354
-0.004351		-0.256778	-74.234644	
0.85916		-5.619443	-117.374304	-0.919354
-0.004351		-0.086196	-60.090500	
1.00000		-5.619443	-117.374304	-0.919354
-0.004351		-0.316333	-50.309425	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		0.371999	69.868431	0.933049
0.001039		1.040776	92.684795	
0.57749		0.371999	69.868431	0.933049
0.001039		0.648975	63.747297	
0.71832		0.371999	69.868431	0.933049
0.001039		0.257887	35.145606	
0.85916		0.371999	69.868431	0.933049
0.001039		0.145228	7.820101	
1.00000		0.371999	69.868431	0.933049
0.001039		0.584612	2.462816	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-9.861899	-11.824877	-1.046145
-0.000160		-1.170123	-28.557829	
0.57749		-9.861899	-11.824877	-1.046145
-0.000160		-0.731487	-23.941857	
0.71832		-9.861899	-11.824877	-1.046145
-0.000160		-0.292883	-19.799885	
0.85916		-9.861899	-11.824877	-1.046145
-0.000160		-0.131686	-16.809173	
1.00000		-9.861899	-11.824877	-1.046145
-0.000160		-0.522757	-34.169632	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2117
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		5.564521	98.303425	1.291778
0.007477		1.441508	186.708035	
0.57749		5.564521	98.303425	1.291778
0.007477		0.899309	150.642703	
0.71832		5.564521	98.303425	1.291778
0.007477		0.358070	127.916585	
0.85916		5.564521	98.303425	1.291778
0.007477		0.183714	121.490654	
1.00000		5.564521	98.303425	1.291778
0.007477		0.912345	129.514188	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-12.058869	-92.858894	-1.581881
-0.006407		-1.744972	-64.010603	
0.57749		-12.058869	-92.858894	-1.581881
-0.006407		-1.087894	-33.784867	
0.71832		-12.058869	-92.858894	-1.581881
-0.006407		-0.437381	-25.363830	
0.85916		-12.058869	-92.858894	-1.581881
-0.006407		-0.204014	-19.629493	
1.00000		-12.058869	-92.858894	-1.581881
-0.006407		-0.726914	-24.140085	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		8.262844	88.667966	1.244714
0.005681		1.388925	173.746048	
0.57749		8.262844	88.667966	1.244714
0.005681		0.866053	141.735718	
0.71832		8.262844	88.667966	1.244714
0.005681		0.343929	120.715646	
0.85916		8.262844	88.667966	1.244714
0.005681		0.245617	118.331981	
1.00000		8.262844	88.667966	1.244714
0.005681		0.929633	133.659870	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-11.061517	-116.429827	-1.631786
-0.004823		-1.810178	-97.432217	
0.57749		-11.061517	-116.429827	-1.631786
-0.004823		-1.129740	-55.956190	
0.71832		-11.061517	-116.429827	-1.631786
-0.004823		-0.454253	-30.634140	
0.85916		-11.061517	-116.429827	-1.631786
-0.004823		-0.189300	-19.239104	
1.00000		-11.061517	-116.429827	-1.631786
-0.004823		-0.698063	-22.488127	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		9.498977	78.220901	1.149945
0.004719		1.281377	155.734279	
0.57749		9.498977	78.220901	1.149945
0.004719		0.798355	127.249064	
0.71832		9.498977	78.220901	1.149945
0.004719		0.316436	107.929284	
0.85916		9.498977	78.220901	1.149945
0.004719		0.232552	104.090980	
1.00000		9.498977	78.220901	1.149945
0.004719		0.883622	114.949990	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665		-9.814224	-114.614361	-1.553811

```
-0.004290   -1.724328 -133.451967
0.57749     -9.814224 -114.614361     -1.553811
-0.004290   -1.075899  -91.709556
0.71832     -9.814224 -114.614361     -1.553811
-0.004290   -0.431777  -63.557582
0.85916     -9.814224 -114.614361     -1.553811
-0.004290   -0.175449  -47.392729
1.00000     -9.814224 -114.614361     -1.553811
-0.004290   -0.646172  -43.271269
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                           2118

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     6.039058        9.491537        0.266964
0.004618    0.299151        55.121932
0.57749     6.039058        9.491537        0.266964
0.004618    0.186362        56.838016
0.71832     6.039058        9.491537        0.266964
0.004618    0.074651        70.078910
0.85916     6.039058        9.491537        0.266964
0.004618    0.085350        98.139871
1.00000     6.039058        9.491537        0.266964
0.004618    0.278629        131.931962

COMB DL-G2-1 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -0.733578       -89.283327      -0.464733
-0.004584   -0.503221       -45.935793
0.57749     -0.733578       -89.283327      -0.464733
-0.004584   -0.312596       -16.285242
0.71832     -0.733578       -89.283327      -0.464733
-0.004584   -0.126349       -4.563115
0.85916     -0.733578       -89.283327      -0.464733
-0.004584   -0.052174       -3.493308
1.00000     -0.733578       -89.283327      -0.464733
-0.004584   -0.151025       -2.493006

COMB DL-G2-2 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     9.656890        10.665573       0.355251
 0.004461   0.395911        56.943206
0.57749     9.656890        10.665573       0.355251
 0.004461   0.246707        57.894747
0.71832     9.656890        10.665573       0.355251
 0.004461   0.097363        69.867151
0.85916     9.656890        10.665573       0.355251
 0.004461   0.111411        100.929728
1.00000     9.656890        10.665573       0.355251
 0.004461   0.393018        140.254347

COMB DL-G2-2 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -1.328500       -121.926116     -0.673864
-0.004765   -0.739980       -98.101315
0.57749     -1.328500       -121.926116     -0.673864
-0.004765   -0.460840       -54.467270
0.71832     -1.328500       -121.926116     -0.673864
-0.004765   -0.186451       -26.730612
0.85916     -1.328500       -121.926116     -0.673864
-0.004765   -0.063208       -16.292152
1.00000     -1.328500       -121.926116     -0.673864
-0.004765   -0.199635       -12.136035

COMB DL-G2-3 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     8.743217        80.161362       0.962155
 0.003577   1.073271        192.177197
0.57749     8.743217        80.161362       0.962155
 0.003577   0.669531        162.871370
0.71832     8.743217        80.161362       0.962155
 0.003577   0.265698        141.516449
0.85916     8.743217        80.161362       0.962155
 0.003577   0.199548        135.089206
1.00000     8.743217        80.161362       0.962155
 0.003577   0.768252        136.266796

COMB DL-G2-3 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -8.415868       -107.207537     -1.356575
-0.003255   -0.666285       -103.685685
0.57749     -8.415868       -107.207537     -1.356575
-0.003255   -0.941938       -64.238265
0.71832     -8.415868       -107.207537     -1.356575
-0.003255   -0.378212       -35.871539
0.85916     -8.415868       -107.207537     -1.356575
-0.003255   -0.142653       -23.631190
1.00000     -8.415868       -107.207537     -1.356575
-0.003255   -0.538106       -16.917214
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                           2119

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     10.095678       72.523649       0.922570
 0.002999   1.027039        175.753642
0.57749     10.095678       72.523649       0.922570
 0.002999   0.639566        148.921541
0.71832     10.095678       72.523649       0.922570
 0.002999   0.252610        128.731643
0.85916     10.095678       72.523649       0.922570
 0.002999   0.196497        121.062183
1.00000     10.095678       72.523649       0.922570
 0.002999   0.757597        119.816554

COMB DL-G2-4 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -7.297343       -104.079892     -1.339242
-0.003006   -1.489250       -142.102200
0.57749     -7.297343       -104.079892     -1.339242
-0.003006   -0.882440       -103.185340
0.71832     -7.297343       -104.079892     -1.339242
-0.003006   -0.372546       -73.534291
0.85916     -7.297343       -104.079892     -1.339242
-0.003006   -0.137822       -57.202661
1.00000     -7.297343       -104.079892     -1.339242
-0.003006   -0.517471       -45.777955

COMB DL-G3-1 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     4.634038        9.919474        0.205115
4.09E-06    0.225382        27.735564
0.57749     4.634038        9.919474        0.205115
4.09E-06    0.138935        23.586723
0.71832     4.634038        9.919474        0.205115
4.09E-06    0.053292        19.464440
0.85916     4.634038        9.919474        0.205115
4.09E-06    0.049297        15.366438
1.00000     4.634038        9.919474        0.205115
4.09E-06    0.193337        11.319229

COMB DL-G3-1 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -0.284648       -20.407567      -0.344463
-0.000446   -0.383333       -86.415922
0.57749     -0.284648       -20.407567      -0.344463
-0.000446   -0.238754       -77.963528
0.71832     -0.284648       -20.407567      -0.344463
-0.000446   -0.094705       -69.538803
0.85916     -0.284648       -20.407567      -0.344463
-0.000446   -0.032121       -61.185807
1.00000     -0.284648       -20.407567      -0.344463
-0.000446   -0.116666       -52.907839

COMB DL-G3-2 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     7.954674        13.708562       0.334939
 0.000131   0.368962        37.028572
0.57749     7.954674        13.708562       0.334939
 0.000131   0.227679        31.568113
0.71832     7.954674        13.708562       0.334939
 0.000131   0.087959        26.427291
0.85916     7.954674        13.708562       0.334939
 0.000131   0.081589        21.813756
1.00000     7.954674        13.708562       0.334939
 0.000131   0.320189        18.071604

COMB DL-G3-2 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -1.237894       -48.105637      -0.570154
-0.000925   -0.634625       -144.323165
0.57749     -1.237894       -48.105637      -0.570154
-0.000925   -0.395562       -124.769741
0.71832     -1.237894       -48.105637      -0.570154
-0.000925   -0.156750       -105.971481
0.85916     -1.237894       -48.105637      -0.570154
-0.000925   -0.051674       -88.146776
1.00000     -1.237894       -48.105637      -0.570154
-0.000925   -0.190000       -71.113205
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                           2120

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     10.907493       12.831011       0.411820
 0.000226   0.455498        52.061807
0.57749     10.907493       12.831011       0.411820
 0.000226   0.281827        49.344729
0.71832     10.907493       12.831011       0.411820
 0.000226   0.109334        49.413865
0.85916     10.907493       12.831011       0.411820
 0.000226   0.107404        58.144208
1.00000     10.907493       12.831011       0.411820
 0.000226   0.434185        74.430403

COMB DL-G3-3 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -1.011509       -92.597241      -0.779208
-0.001007   -0.871462       -163.353904
0.57749     -1.011509       -92.597241      -0.779208
-0.001007   -0.544004       -126.881397
0.71832     -1.011509       -92.597241      -0.779208
-0.001007   -0.217066       -92.966454
0.85916     -1.011509       -92.597241      -0.779208
-0.001007   -0.059551       -76.211784
1.00000     -1.011509       -92.597241      -0.779208
-0.001007   -0.230883       -63.887604

COMB DL-G3-4 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     11.391308       59.743532       0.774104
 0.002959   0.860999        164.415947
0.57749     11.391308       59.743532       0.774104
 0.002959   0.535439        143.194182
0.71832     11.391308       59.743532       0.774104
 0.002959   0.211065        129.109967
0.85916     11.391308       59.743532       0.774104
 0.002959   0.178662        127.962869
1.00000     11.391308       59.743532       0.774104
 0.002959   0.681946        133.038887

COMB DL-G3-4 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -5.187487       -107.571846     -1.201877
-0.003292   -1.334440       -155.252134
0.57749     -5.187487       -107.571846     -1.201877
-0.003292   -0.832346       -115.195109
0.71832     -5.187487       -107.571846     -1.201877
-0.003292   -0.333251       -85.143605
0.85916     -5.187487       -107.571846     -1.201877
-0.003292   -0.118537       -69.041074
1.00000     -5.187487       -107.571846     -1.201877
-0.003292   -0.434728       -56.825677

COMB      DB ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     12.064658       103.279216      0.915361
 0.007609   1.023231        193.156007
0.57749     12.064658       103.279216      0.915361
 0.007609   0.639416        161.079504
0.71832     12.064658       103.279216      0.915361
 0.007609   0.255588        137.715660
0.85916     12.064658       103.279216      0.915361
 0.007609   0.160695        124.184612
1.00000     12.064658       103.279216      0.915361
 0.007609   0.686002        135.749399

COMB      DB ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -12.902478      -136.126990     -1.203035
-0.006311   -1.331808       -159.168563
0.57749     -12.902478      -136.126990     -1.203035
-0.006311   -0.830490       -119.261926
0.71832     -12.902478      -136.126990     -1.203035
-0.006311   -0.337406       -94.702056
0.85916     -12.902478      -136.126990     -1.203035
-0.006311   -0.137554       -78.683335
1.00000     -12.902478      -136.126990     -1.203035
-0.006311   -0.512026       -63.225410
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                           2121

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     11.391308       98.303425       1.291778
 0.007477   1.441508        192.177197
0.57749     11.391308       98.303425       1.291778
 0.007477   0.899309        162.871370
0.71832     11.391308       98.303425       1.291778
 0.007477   0.358070        141.516449
0.85916     11.391308       98.303425       1.291778
 0.007477   0.250114        135.089206
1.00000     11.391308       98.303425       1.291778
 0.007477   0.929633        140.254347

COMB      DL ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -12.058869      -121.926116     -1.631786
-0.006407   -1.810178       -163.353904
0.57749     -12.058869      -121.926116     -1.631786
-0.006407   -1.129740       -126.881397
0.71832     -12.058869      -121.926116     -1.631786
-0.006407   -0.454253       -105.971481
0.85916     -12.058869      -121.926116     -1.631786
-0.006407   -0.204014       -88.146776
1.00000     -12.058869      -121.926116     -1.631786
-0.006407   -0.726914       -71.113205

COMB      CAR ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     12.064658       103.279216      1.291778
 0.007609   1.441508        193.156007
0.57749     12.064658       103.279216      1.291778
 0.007609   0.899309        162.871370
0.71832     12.064658       103.279216      1.291778
 0.007609   0.358070        141.516449
0.85916     12.064658       103.279216      1.291778
 0.007609   0.250114        135.089206
1.00000     12.064658       103.279216      1.291778
 0.007609   0.929633        140.254347

COMB      CAR ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -12.902478      -136.126990     -1.631786
-0.006407   -1.810178       -163.353904
0.57749     -12.902478      -136.126990     -1.631786
-0.006407   -1.129740       -126.881397
0.71832     -12.902478      -136.126990     -1.631786
-0.006407   -0.454253       -105.971481
0.85916     -12.902478      -136.126990     -1.631786
-0.006407   -0.204014       -88.146776
1.00000     -12.902478      -136.126990     -1.631786
-0.006407   -0.726914       -71.113205

COMB      DESIGN ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.43665     12.064658       103.279216      1.291778
 0.007609   1.441508        193.156007
0.57749     12.064658       103.279216      1.291778
 0.007609   0.899309        162.871370
0.71832     12.064658       103.279216      1.291778
 0.007609   0.358070        141.516449
0.85916     12.064658       103.279216      1.291778
 0.007609   0.250114        135.089206
1.00000     12.064658       103.279216      1.291778
 0.007609   0.929633        140.254347

COMB      DESIGN ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.43665     -12.902478      -136.126990     -1.631786
-0.006407   -1.810178       -163.353904
0.57749     -12.902478      -136.126990     -1.631786
-0.006407   -1.129740       -126.881397
0.71832     -12.902478      -136.126990     -1.631786
-0.006407   -0.454253       -105.971481
0.85916     -12.902478      -136.126990     -1.631786
-0.006407   -0.204014       -88.146776
1.00000     -12.902478      -136.126990     -1.631786
-0.006407   -0.726914       -71.113205
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                           2122

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      187 ================== LENGTH =     2.977338

COMB DB-G1-1 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.00000     0.434184        71.685011       0.668618
 0.001115   0.376222        2.179899
0.14084     0.434184        71.685011       0.668618
 0.001115   0.095845        2.801864
0.28168     0.434184        71.685011       0.668618
 0.001115   0.209188        4.356766
0.42253     0.434184        71.685011       0.668618
 0.001115   0.322538        7.955175
0.56337     0.434184        71.685011       0.668618
 0.001115   0.838303        11.806762

COMB DB-G1-1 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.00000     -10.171372      -9.632118       -0.750283
-7.30E-06   -0.420223       -23.696097
0.14084     -10.171372      -9.632118       -0.750283
-7.30E-06   -0.105672       -53.326237
0.28168     -10.171372      -9.632118       -0.750283
-7.30E-06   -0.185528       -83.306682
0.42253     -10.171372      -9.632118       -0.750283
-7.30E-06   -0.464902       -113.296714
0.56337     -10.171372      -9.632118       -0.750283
-7.30E-06   -0.745277       -143.314314

COMB DB-G1-2 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.00000     2.306548        168.353644      0.926853
 0.007730   0.520856        121.678706
0.14084     2.306548        168.353644      0.926853
 0.007730   0.142772        96.937844
0.28168     2.306548        168.353644      0.926853
 0.007730   0.320097        74.258832
0.42253     2.306548        168.353644      0.926853
 0.007730   0.788851        70.675150
0.56337     2.306548        168.353644      0.926853
 0.007730   1.271271        80.924485

COMB DB-G1-2 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.00000     -17.025423      -32.189772      -1.160238
-0.006143   -0.674900       -12.006084
0.14084     -17.025423      -32.189772      -1.160238
-0.006143   -0.189883       -49.760426
0.28168     -17.025423      -32.189772      -1.160238
-0.006143   -0.256454       -88.030036
0.42253     -17.025423      -32.189772      -1.160238
-0.006143   -0.645128       -128.767684
0.56337     -17.025423      -32.189772      -1.160238
-0.006143   -1.033789       -190.943302

COMB DB-G1-3 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.00000     6.632365        137.302875      0.859743
 0.005661   0.482822        119.646705
0.14084     6.632365        137.302875      0.859743
 0.005661   0.129764        126.033319
0.28168     6.632365        137.302875      0.859743
 0.005661   0.339463        134.527555
0.42253     6.632365        137.302875      0.859743
 0.005661   0.842329        156.249906
0.56337     6.632365        137.302875      0.859743
 0.005661   1.354541        187.435901

COMB DB-G1-3 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.00000     -14.671557      -79.876321      -1.228154
-0.004319   -0.705531       -11.610641
0.14084     -14.671557      -79.876321      -1.228154
-0.004319   -0.191592       -47.056276
0.28168     -14.671557      -79.876321      -1.228154
-0.004319   -0.238029       -82.817222
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                           2123

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST            P              V2              V3
       T            M2             M3
0.42253     -14.671557      -79.876321      -1.228154
-0.004319   -0.598651       -120.184572
0.56337     -14.671557      -79.876321      -1.228154
-0.004319   -0.959212       -172.105383

COMB DB-G1-4 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.00000     8.504264        118.003227      0.822578
 0.004743   0.462873        102.271821
0.14084     8.504264        118.003227      0.822578
 0.004743   0.123817        106.292998
0.28168     8.504264        118.003227      0.822578
 0.004743   0.328076        115.110379
0.42253     8.504264        118.003227      0.822578
 0.004743   0.815612        135.698291
0.56337     8.504264        118.003227      0.822578
 0.004743   1.310895        166.007583

COMB DB-G1-4 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.00000     -12.800669      -82.862341      -1.186648
-0.004121   -0.679549       -33.102051
0.14084     -12.800669      -82.862341      -1.186648
-0.004121   -0.182772       -56.527208
0.28168     -12.800669      -82.862341      -1.186648
-0.004121   -0.226629       -80.676941
0.42253     -12.800669      -82.862341      -1.186648
-0.004121   -0.571863       -107.589183
0.56337     -12.800669      -82.862341      -1.186648
-0.004121   -0.916832       -147.657548

COMB DB-G2-1 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.00000     3.742126        64.565820       0.188269
 0.005310   0.105292        131.565893
0.14084     3.742126        64.565820       0.188269
 0.005310   0.035285        123.818796
0.28168     3.742126        64.565820       0.188269
 0.005310   0.103624        116.247754
0.42253     3.742126        64.565820       0.188269
 0.005310   0.249456        123.741689
0.56337     3.742126        64.565820       0.188269
 0.005310   0.406637        142.469289

COMB DB-G2-1 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.00000     -4.280601       -50.547160      -0.383029
-0.005137   -0.235832       -2.150832
0.14084     -4.280601       -50.547160      -0.383029
-0.005137   -0.076344       -1.559868
0.28168     -4.280601       -50.547160      -0.383029
-0.005137   -0.052554       -1.329553
0.42253     -4.280601       -50.547160      -0.383029
-0.005137   -0.031534       -3.114483
0.56337     -4.280601       -50.547160      -0.383029
-0.005137   -0.210491       -22.808811

COMB DB-G2-2 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.00000     8.399394        61.370681       0.236016
 0.005145   0.132455        136.012610
0.14084     8.399394        61.370681       0.236016
 0.005145   0.041614        142.023679
0.28168     8.399394        61.370681       0.236016
 0.005145   0.154003        151.722993
0.42253     8.399394        61.370681       0.236016
 0.005145   0.377136        175.713413
0.56337     8.399394        61.370681       0.236016
 0.005145   0.610825        210.736986

COMB DB-G2-2 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.00000     -4.634041       -89.407425      -0.564913
-0.005196   -0.336725       -12.645621
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                           2124

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST            P              V2              V3
       T            M2             M3
0.14084     -4.634041       -89.407425      -0.564913
-0.005196   -0.100898       -9.070227
0.28168     -4.634041       -89.407425      -0.564913
-0.005196   -0.065255       -6.422872
0.42253     -4.634041       -89.407425      -0.564913
-0.005196   -0.164359       -7.569348
0.56337     -4.634041       -89.407425      -0.564913
-0.005196   -0.263374       -26.717295

COMB DB-G2-3 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.00000     8.112603        118.677735      0.673718
 0.004611   0.378376        130.353758
0.14084     8.112603        118.677735      0.673718
 0.004611   0.101333        122.994913
0.28168     8.112603        118.677735      0.673718
 0.004611   0.287812        135.892023
0.42253     8.112603        118.677735      0.673718
 0.004611   0.714255        161.580990
0.56337     8.112603        118.677735      0.673718
 0.004611   1.148279        195.511379

COMB DB-G2-3 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.00000     -11.506612      -86.464547      -1.040429
-0.003859   -0.596872       -15.847209
0.14084     -11.506612      -86.464547      -1.040429
-0.003859   -0.161508       -17.808306
0.28168     -11.506612      -86.464547      -1.040429
-0.003859   -0.186443       -46.736283
0.42253     -11.506612      -86.464547      -1.040429
-0.003859   -0.469089       -78.722955
0.56337     -11.506612      -86.464547      -1.040429
-0.003859   -0.751643       -123.763304

COMB DB-G2-4 ------------------ MAX

REL DIST            P              V2              V3
       T            M2             M3
0.00000     9.653231        103.691462      0.667805
 0.003850   0.375645        112.801732
0.14084     9.653231        103.691462      0.667805
 0.003850   0.100333        104.737368
0.28168     9.653231        103.691462      0.667805
 0.003850   0.287250        113.708496
0.42253     9.653231        103.691462      0.667805
 0.003850   0.715023        134.499611
0.56337     9.653231        103.691462      0.667805
 0.003850   1.149133        162.546167

COMB DB-G2-4 ------------------- MIN

REL DIST            P              V2              V3
       T            M2             M3
0.00000     -9.870524       -84.070184      -1.039758
```

-0.003757 -0.594893 -41.187491
0.14084 -9.870524 -84.070184 -1.039758
-0.003757 -0.159613 -37.996640
0.28168 -9.870524 -84.070184 -1.039758
-0.003757 -0.184251 -57.168987
0.42253 -9.870524 -84.070184 -1.039758
-0.003757 -0.464393 -78.586524
0.56337 -9.870524 -84.070184 -1.039758
-0.003757 -0.744460 -110.751530

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.582892	7.999486	0.172950
1.50E-05	0.097791	7.884545	
0.14084	4.582892	7.999486	0.172950
1.50E-05	0.025259	4.896310	
0.28168	4.582892	7.999486	0.172950
1.50E-05	0.074968	2.445302	
0.42253	4.582892	7.999486	0.172950
1.50E-05	0.189769	2.392091	
0.56337	4.582892	7.999486	0.172950
1.50E-05	0.304569	2.550016	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2125

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.265001	-17.131350	-0.273778
-0.000838	-0.154649	-45.597396	
0.14084	-0.265001	-17.131350	-0.273778
-0.000838	-0.039792	-38.881359	
0.28168	-0.265001	-17.131350	-0.273778
-0.000838	-0.047256	-32.306575	
0.42253	-0.265001	-17.131350	-0.273778
-0.000838	-0.119779	-25.788972	
0.56337	-0.265001	-17.131350	-0.273778
-0.000838	-0.192303	-19.302479	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.394786	13.397269	0.292018
0.000351	0.165839	14.980028	
0.14084	8.394786	13.397269	0.292018
0.000351	0.043708	13.209240	
0.28168	8.394786	13.397269	0.292018
0.000351	0.124728	17.293376	
0.42253	8.394786	13.397269	0.292018
0.000351	0.314048	25.229323	
0.56337	8.394786	13.397269	0.292018
0.000351	0.503758	34.366225	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.274144	-42.800203	-0.452722
-0.001633	-0.255608	-63.253983	
0.14084	-1.274144	-42.800203	-0.452722
-0.001633	-0.065752	-51.099168	
0.28168	-1.274144	-42.800203	-0.452722
-0.001633	-0.079066	-39.816114	
0.42253	-1.274144	-42.800203	-0.452722
-0.001633	-0.201523	-31.016638	
0.56337	-1.274144	-42.800203	-0.452722
-0.001633	-0.323983	-24.575078	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.744115	14.165540	0.309023
0.000505	0.174344	65.081763	
0.14084	11.744115	14.165540	0.309023
0.000505	0.044918	88.503354	
0.28168	11.744115	14.165540	0.309023
0.000505	0.179046	115.531347	
0.42253	11.744115	14.165540	0.309023
0.000505	0.450813	146.390742	
0.56337	11.744115	14.165540	0.309023
0.000505	0.723245	178.455165	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.211469	-95.800467	-0.650178
-0.001530	-0.367324	-87.087796	
0.14084	-1.211469	-95.800467	-0.650178
-0.001530	-0.094693	-47.160063	
0.28168	-1.211469	-95.800467	-0.650178
-0.001530	-0.084597	-37.803043	
0.42253	-1.211469	-95.800467	-0.650178
-0.001530	-0.214321	-30.221564	
0.56337	-1.211469	-95.800467	-0.650178
-0.001530	-0.343947	-24.862990	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.709576	94.683618	0.563229
0.004134	0.316767	127.191943	
0.14084	10.709576	94.683618	0.563229
0.004134	0.086163	115.343166	
0.28168	10.709576	94.683618	0.563229
0.004134	0.259728	118.710605	
0.42253	10.709576	94.683618	0.563229
0.004134	0.645694	135.851874	
0.56337	10.709576	94.683618	0.563229
0.004134	1.039094	162.775367	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2126

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.876043	-84.835655	-0.943495
-0.004433	-0.543558	-50.315234	
0.14084	-7.876043	-84.835655	-0.943495
-0.004433	-0.148684	-47.580266	
0.28168	-7.876043	-84.835655	-0.943495
-0.004433	-0.155425	-47.302850	
0.42253	-7.876043	-84.835655	-0.943495
-0.004433	-0.391706	-60.885126	
0.56337	-7.876043	-84.835655	-0.943495
-0.004433	-0.627921	-87.062135	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.378378	69.315943	0.939164
0.001055	0.525857	2.460949	
0.14084	0.378378	69.315943	0.939164
0.001055	0.132146	3.025257	
0.28168	0.378378	69.315943	0.939164
0.001055	0.290506	4.327559	
0.42253	0.378378	69.315943	0.939164
0.001055	0.728887	8.412128	
0.56337	0.378378	69.315943	0.939164
0.001055	1.167361	13.014031	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.830244	-11.705913	-1.045673
-4.30E-06	-0.586617	-34.192124	
0.14084	-9.830244	-11.705913	-1.045673
-4.30E-06	-0.147398	-59.970530	
0.28168	-9.830244	-11.705913	-1.045673
-4.30E-06	-0.260245	-86.061103	
0.42253	-9.830244	-11.705913	-1.045673
-4.30E-06	-0.653984	-114.307658	
0.56337	-9.830244	-11.705913	-1.045673
-4.30E-06	-1.048299	-143.012286	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.390255	160.887605	1.302527
0.007673	0.734733	129.558767	
0.14084	2.390255	160.887605	1.302527
0.007673	0.208689	103.924269	
0.28168	2.390255	160.887605	1.302527
0.007673	0.436687	80.052456	
0.42253	2.390255	160.887605	1.302527
0.007673	1.085334	75.718253	
0.56337	2.390255	160.887605	1.302527
0.007673	1.742406	85.609373	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.953897	-33.019217	-1.580958
-0.006182	-0.913417	-24.158988	
0.14084	-15.953897	-33.019217	-1.580958
-0.006182	-0.251554	-55.369569	
0.28168	-15.953897	-33.019217	-1.580958
-0.006182	-0.359937	-87.697632	
0.42253	-15.953897	-33.019217	-1.580958
-0.006182	-0.905880	-125.023824	
0.56337	-15.953897	-33.019217	-1.580958
-0.006182	-1.452519	-188.894447	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.073396	133.005262	1.257740
0.005809	0.708122	133.666686	
0.14084	6.073396	133.005262	1.257740
0.005809	0.194562	135.526639	
0.28168	6.073396	133.005262	1.257740
0.005809	0.455267	139.165470	
0.42253	6.073396	133.005262	1.257740
0.005809	1.135843	157.126912	
0.56337	6.073396	133.005262	1.257740
0.005809	1.822410	185.316788	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2127

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.804901	-74.457690	-1.646053
-0.004547	-0.941418	-22.500942	
0.14084	-13.804901	-74.457690	-1.646053
-0.004547	-0.251164	-51.800628	
0.28168	-13.804901	-74.457690	-1.646053
-0.004547	-0.345891	-81.982914	
0.42253	-13.804901	-74.457690	-1.646053
-0.004547	-0.873540	-116.129904	
0.56337	-13.804901	-74.457690	-1.646053
-0.004547	-1.401697	-169.179910	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.706428	115.089604	1.159645
0.004864	0.653003	114.967391	
0.14084	7.706428	115.089604	1.159645
0.004864	0.178199	115.030824	
0.28168	7.706428	115.089604	1.159645
0.004864	0.433141	118.940211	
0.42253	7.706428	115.089604	1.159645
0.004864	1.082378	136.403415	
0.56337	7.706428	115.089604	1.159645
0.004864	1.736546	164.369833	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.093744	-80.006030	-1.567356
-0.004243	-0.894362	-43.269379	
0.14084	-12.093744	-80.006030	-1.567356
-0.004243	-0.237264	-61.057931	
0.28168	-12.093744	-80.006030	-1.567356
-0.004243	-0.318442	-80.754374	
0.42253	-12.093744	-80.006030	-1.567356
-0.004243	-0.804739	-105.116359	
0.56337	-12.093744	-80.006030	-1.567356
-0.004243	-1.291863	-146.870394	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.859274	53.938965	0.271443
0.004502	0.155826	131.945379	
0.14084	3.859274	53.938965	0.271443
0.004502	0.055805	127.442021	
0.28168	3.859274	53.938965	0.271443
0.004502	0.128787	123.200936	
0.42253	3.859274	53.938965	0.271443
0.004502	0.315922	110.916509	
0.56337	3.859274	53.938965	0.271443
0.004502	0.508603	148.277977	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.492448	-47.904513	-0.469052
-0.004332	-0.280807	-2.479796	
0.14084	-3.492448	-47.904513	-0.469052
-0.004332	-0.085364	-1.613093	
0.28168	-3.492448	-47.904513	-0.469052
-0.004332	-0.107470	-1.112671	
0.42253	-3.492448	-47.904513	-0.469052
-0.004332	-0.187683	-2.647596	
0.56337	-3.492448	-47.904513	-0.469052
-0.004332	-0.301246	-22.530287	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.615916	53.145428	0.364146
0.004487	0.207238	140.259773	
0.14084	7.615916	53.145428	0.364146
0.004487	0.067600	147.056575	
0.28168	7.615916	53.145428	0.364146
0.004487	0.190224	157.369857	
0.42253	7.615916	53.145428	0.364146
0.004487	0.471367	179.866356	
0.56337	7.615916	53.145428	0.364146
0.004487	0.758235	211.801074	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2128

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.951355	-82.775030	-0.691929
-0.004503	-0.404883	-12.127822	
0.14084	-3.951355	-82.775030	-0.691929
-0.004503	-0.115592	-8.398478	
0.28168	-3.951355	-82.775030	-0.691929
-0.004503	-0.097778	-6.672714	
0.42253	-3.951355	-82.775030	-0.691929
-0.004503	-0.251095	-7.502977	
0.56337	-3.951355	-82.775030	-0.691929
-0.004503	-0.403736	-26.696060	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.442791	106.904206	0.976133
0.003836	0.549643	136.226581	
0.14084	7.442791	106.904206	0.976133
0.003836	0.148408	126.895198	
0.28168	7.442791	106.904206	0.976133
0.003836	0.380248	140.094318	
0.42253	7.442791	106.904206	0.976133
0.003836	0.949908	165.032993	
0.56337	7.442791	106.904206	0.976133
0.003836	1.523104	196.792789	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.066427	-81.920320	-1.371704
-0.003117	-0.779270	-16.895537	
0.14084	-10.066427	-81.920320	-1.371704
-0.003117	-0.203724	-16.718837	
0.28168	-10.066427	-81.920320	-1.371704
-0.003117	-0.266940	-41.710586	
0.42253	-10.066427	-81.920320	-1.371704
-0.003117	-0.677120	-71.243675	
0.56337	-10.066427	-81.920320	-1.371704
-0.003117	-1.086184	-113.355894	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.028823	95.073573	0.927375
0.003204	0.522046	119.793380	
0.14084	9.028823	95.073573	0.927375
0.003204	0.140454	109.535831	
0.28168	9.028823	95.073573	0.927375
0.003204	0.374515	117.687823	
0.42253	9.028823	95.073573	0.927375
0.003204	0.937064	137.341390	
0.56337	9.028823	95.073573	0.927375
0.003204	1.502961	163.482781	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.688071	-82.996255	-1.353492
-0.003104	-0.767848	-45.774407	
0.14084	-8.688071	-82.996255	-1.353492
-0.003104	-0.200341	-39.726096	
0.28168	-8.688071	-82.996255	-1.353492
-0.003104	-0.252763	-54.288435	
0.42253	-8.688071	-82.996255	-1.353492
-0.003104	-0.642125	-73.918286	
0.56337	-8.688071	-82.996255	-1.353492
-0.003104	-1.031243	-104.435655	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.668892	10.088822	0.192470
1.12E-05	0.107904	11.332435	
0.14084	4.668892	10.088822	0.192470
1.12E-05	0.027815	7.450989	
0.28168	4.668892	10.088822	0.192470
1.12E-05	0.109893	3.881346	
0.42253	4.668892	10.088822	0.192470
1.12E-05	0.242219	2.811037	
0.56337	4.668892	10.088822	0.192470
1.12E-05	0.388165	2.905718	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2129

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.285633	-20.605000	-0.348389
-0.000794	-0.052778	-12.229778	
0.14084	-0.285633	-20.605000	-0.348389
-0.000794	-0.049931	-44.690156	
0.28168	-0.285633	-20.605000	-0.348389
-0.000794	-0.051607	-36.571589	
0.42253	-0.285633	-20.605000	-0.348389
-0.000794	-0.132001	-30.229181	
0.56337	-0.285633	-20.605000	-0.348389
-0.000794	-0.213209	-24.933017	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.952398	15.239259	0.326429
0.000274	0.183186	18.092620	
0.14084	7.952398	15.239259	0.326429
0.000274	0.047731	16.018815	
0.28168	7.952398	15.239259	0.326429
0.000274	0.158518	19.198166	
0.42253	7.952398	15.239259	0.326429
0.000274	0.400231	26.919304	
0.56337	7.952398	15.239259	0.326429
0.000274	0.642471	36.384652	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.324604	-47.463995	-0.576685
-0.001441	-0.324477	-71.147881	
0.14084	-1.324604	-47.463995	-0.576685
-0.001441	-0.083029	-56.506948	
0.28168	-1.324604	-47.463995	-0.576685
-0.001441	-0.087740	-44.751586	
0.42253	-1.324604	-47.463995	-0.576685
-0.001441	-0.224261	-36.255623	
0.56337	-1.324604	-47.463995	-0.576685
-0.001441	-0.361725	-30.567809	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.040814	13.050333	0.405931
6.92E-05	0.227216	74.414018	
0.14084	11.040814	13.050333	0.405931
6.92E-05	0.057300	95.574193	
0.28168	11.040814	13.050333	0.405931
6.92E-05	0.220732	120.328845	
0.42253	11.040814	13.050333	0.405931
6.92E-05	0.556271	148.706849	
0.56337	11.040814	13.050333	0.405931
6.92E-05	0.892533	178.329635	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.008804	-93.698477	-0.799215
-0.001035	-0.447177	-63.902868	
0.14084	-1.008804	-93.698477	-0.799215
-0.001035	-0.112051	-51.860288	
0.28168	-1.008804	-93.698477	-0.799215
-0.001035	-0.108347	-41.659507	
0.42253	-1.008804	-93.698477	-0.799215
-0.001035	-0.278687	-34.215930	
0.56337	-1.008804	-93.698477	-0.799215
-0.001035	-0.449551	-28.597032	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.233573	84.390677	0.774063
0.003085	0.436280	133.026065	
0.14084	10.233573	84.390677	0.774063
0.003085	0.119692	121.983556	
0.28168	10.233573	84.390677	0.774063
0.003085	0.336313	125.106392	
0.42253	10.233573	84.390677	0.774063
0.003085	0.841311	142.445924	
0.56337	10.233573	84.390677	0.774063
0.003085	1.350191	167.576684	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2130

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.709261	-84.740231	-1.216978
-0.003381	-0.691807	-56.828044	
0.14084	-6.709261	-84.740231	-1.216978
-0.003381	-0.182109	-45.023241	
0.28168	-6.709261	-84.740231	-1.216978
-0.003381	-0.210190	-47.884809	
0.42253	-6.709261	-84.740231	-1.216978
-0.003381	-0.535065	-59.601818	
0.56337	-6.709261	-84.740231	-1.216978
-0.003381	-0.859851	-83.799262	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.744115	168.353644	0.926853
0.007730	0.520856	136.012610	
0.14084	11.744115	168.353644	0.926853
0.007730	0.142772	142.023679	
0.28168	11.744115	168.353644	0.926853
0.007730	0.339463	151.722993	
0.42253	11.744115	168.353644	0.926853
0.007730	0.842329	175.713413	
0.56337	11.744115	168.353644	0.926853
0.007730	1.354541	210.736986	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.025423	-95.800467	-1.228154
-0.006143	-0.705531	-63.253983	
0.14084	-17.025423	-95.800467	-1.228154
-0.006143	-0.191592	-56.527208	
0.28168	-17.025423	-95.800467	-1.228154
-0.006143	-0.256454	-88.030036	
0.42253	-17.025423	-95.800467	-1.228154
-0.006143	-0.645128	-128.767684	
0.56337	-17.025423	-95.800467	-1.228154
-0.006143	-1.033789	-190.943302	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.040814	160.887605	1.302527
0.007673	0.734733	140.259773	
0.14084	11.040814	160.887605	1.302527
0.007673	0.208689	147.056575	
0.28168	11.040814	160.887605	1.302527
0.007673	0.455267	157.369857	
0.42253	11.040814	160.887605	1.302527
0.007673	1.135843	179.866356	
0.56337	11.040814	160.887605	1.302527
0.007673	1.822410	211.801074	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.953897	-93.698477	-1.646053
-0.006182	-0.941418	-71.147881	
0.14084	-15.953897	-93.698477	-1.646053
-0.006182	-0.251554	-61.057931	
0.28168	-15.953897	-93.698477	-1.646053
-0.006182	-0.359937	-87.697632	
0.42253	-15.953897	-93.698477	-1.646053
-0.006182	-0.905880	-125.023824	
0.56337	-15.953897	-93.698477	-1.646053
-0.006182	-1.452519	-188.894447	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.744115	168.353644	1.302527
0.007730	0.734733	140.259773	
0.14084	11.744115	168.353644	1.302527
0.007730	0.208689	147.056575	
0.28168	11.744115	168.353644	1.302527
0.007730	0.455267	157.369857	
0.42253	11.744115	168.353644	1.302527
0.007730	1.135843	179.866356	
0.56337	11.744115	168.353644	1.302527
0.007730	1.822410	211.801074	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2131

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.025423	-95.800467	-1.646053
-0.006182	-0.941418	-71.147881	
0.14084	-17.025423	-95.800467	-1.646053
-0.006182	-0.251554	-61.057931	
0.28168	-17.025423	-95.800467	-1.646053
-0.006182	-0.359937	-88.030036	
0.42253	-17.025423	-95.800467	-1.646053
-0.006182	-0.905880	-128.767684	
0.56337	-17.025423	-95.800467	-1.646053
-0.006182	-1.452519	-190.943302	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.744115	168.353644	1.302527
0.007730	0.734733	140.259773	
0.14084	11.744115	168.353644	1.302527
0.007730	0.208689	147.056575	
0.28168	11.744115	168.353644	1.302527
0.007730	0.455267	157.369857	
0.42253	11.744115	168.353644	1.302527
0.007730	1.135843	179.866356	
0.56337	11.744115	168.353644	1.302527
0.007730	1.822410	211.801074	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.025423	-95.800467	-1.646053
-0.006182	-0.941418	-71.147881	
0.14084	-17.025423	-95.800467	-1.646053
-0.006182	-0.251554	-61.057931	
0.28168	-17.025423	-95.800467	-1.646053
-0.006182	-0.359937	-88.030036	
0.42253	-17.025423	-95.800467	-1.646053
-0.006182	-0.905880	-128.767684	
0.56337	-17.025423	-95.800467	-1.646053
-0.006182	-1.452519	-190.943302	

```
 ELEM      188 ========== LENGTH
=    2.977307

 COMB DB-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   0.129445   75.713394    0.634579
 0.000820   0.709288  104.722070
 0.57748   0.129445   75.713394    0.634579
 0.000820   0.443192   73.035677
 0.71832   0.129445   75.713394    0.634579
 0.000820   0.177094   41.439951
 0.85916   0.129445   75.713394    0.634579
 0.000820   0.100047   10.140812
 1.00000   0.129445   75.713394    0.634579
 0.000820   0.390441    2.399712

 COMB DB-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -10.755410   -5.517289   -0.692984
-0.000549   -0.771960  -12.086372
 0.57748  -10.755410   -5.517289   -0.692984
-0.000549   -0.481375   -9.939727
 0.71832  -10.755410   -5.517289   -0.692984
-0.000549   -0.190813   -8.151368
 0.85916  -10.755410   -5.517289   -0.692984
-0.000549   -0.088960   -6.541981
 1.00000  -10.755410   -5.517289   -0.692984
-0.000549   -0.355096  -23.435192

 COMB DB-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   4.534846  107.330639    0.872524
 0.007214   0.974586  199.328323
 0.57748   4.534846  107.330639    0.872524
 0.007214   0.608714  159.265594
 0.71832   4.534846  107.330639    0.872524
 0.007214   0.242801  131.660671
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2132

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.85916   4.534846  107.330639    0.872524
 0.007214   0.172405  121.652488
 1.00000   4.534846  107.330639    0.872524
 0.007214   0.598782  124.642226

 COMB DB-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -13.549438  -88.125425   -1.020011
-0.006931   -1.112716  -38.437921
 0.57748  -13.549438  -88.125425   -1.020011
-0.006931   -0.686532  -16.319065
 0.71832  -13.549438  -88.125425   -1.020011
-0.006931   -0.278877  -11.913129
 0.85916  -13.549438  -88.125425   -1.020011
-0.006931   -0.135540   -9.377265
 1.00000  -13.549438  -88.125425   -1.020011
-0.006931   -0.488906  -10.691430

 COMB DB-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   7.975344   96.540361    0.836368
 0.005409   0.933788  186.733505
 0.57748   7.975344   96.540361    0.836368
 0.005409   0.583076  151.159162
 0.71832   7.975344   96.540361    0.836368
 0.005409   0.232357  124.870698
 0.85916   7.975344   96.540361    0.836368
 0.005409   0.158431  113.243047
 1.00000   7.975344   96.540361    0.836368
 0.005409   0.566748  124.751913

 COMB DB-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -12.432665  -116.670105   -0.975877
-0.005222   -1.070524   -82.283220
 0.57748  -12.432665  -116.670105   -0.975877
-0.005222   -0.662351   -42.658882
 0.71832  -12.432665  -116.670105   -0.975877
-0.005222   -0.266819   -14.099696
 0.85916  -12.432665  -116.670105   -0.975877
-0.005222   -0.126871    -9.657166
 1.00000  -12.432665  -116.670105   -0.975877
-0.005222   -0.469061    -9.599972

 COMB DB-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   9.808082   82.344907    0.837025
 0.004522   0.933367  160.810644
 0.57748   9.808082   82.344907    0.837025
 0.004522   0.582383  130.363681
 0.71832   9.808082   82.344907    0.837025
 0.004522   0.231418  107.617070
 0.85916   9.808082   82.344907    0.837025
 0.004522   0.158972   97.084273
 1.00000   9.808082   82.344907    0.837025
 0.004522   0.576490  105.794300

 COMB DB-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -11.044966  -114.613495   -0.997270
-0.004514   -1.096594  -119.722411
 0.57748  -11.044966  -114.613495   -0.997270
-0.004514   -0.679274   -79.755107
 0.71832  -11.044966  -114.613495   -0.997270
-0.004514   -0.272438   -49.379792
 0.85916  -11.044966  -114.613495   -0.997270
-0.004514   -0.126753   -39.304891
 1.00000  -11.044966  -114.613495   -0.997270
-0.004514   -0.470668   -32.488444

 COMB DB-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   5.817413    9.208672    0.162545
 0.005524   0.181404   50.390200
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2133

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.57748   5.817413    9.208672    0.162545
 0.005524   0.113254   51.817866
 0.71832   5.817413    9.208672    0.162545
 0.005524   0.045050   64.298838
 0.85916   5.817413    9.208672    0.162545
 0.005524   0.054935   94.546369
 1.00000   5.817413    9.208672    0.162545
 0.005524   0.157797  135.654838

 COMB DB-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -0.729070  -100.949674   -0.248303
-0.005523   -0.259129  -41.601721
 0.57748   -0.729070  -100.949674   -0.248303
-0.005523   -0.156211   -11.734887
 0.71832   -0.729070  -100.949674   -0.248303
-0.005523   -0.068818    -2.898332
 0.85916   -0.729070  -100.949674   -0.248303
-0.005523   -0.033564    -2.278887
 1.00000   -0.729070  -100.949674   -0.248303
-0.005523   -0.091215    -1.673233

 COMB DB-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   10.366977    8.869849    0.255256
 0.005349   0.284274   51.418523
 0.57748   10.366977    8.869849    0.255256
 0.005349   0.177243   53.253704
 0.71832   10.366977    8.869849    0.255256
 0.005349   0.070203   65.656577
 0.85916   10.366977    8.869849    0.255256
 0.005349   0.072822   94.754802
 1.00000   10.366977    8.869849    0.255256
 0.005349   0.224005  141.386553

 COMB DB-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -1.462747  -136.809446   -0.362914
-0.005463   -0.385125  -101.435868
 0.57748  -1.462747  -136.809446   -0.362914
-0.005463   -0.234064   -54.998860
 0.71832  -1.462747  -136.809446   -0.362914
-0.005463   -0.097379   -21.806040
 0.85916  -1.462747  -136.809446   -0.362914
-0.005463   -0.046653   -15.566183
 1.00000  -1.462747  -136.809446   -0.362914
-0.005463   -0.143898   -11.346603

 COMB DB-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   9.514352   84.679439    0.666909
 0.004350   0.743878  195.869477
 0.57748   9.514352   84.679439    0.666909
 0.004350   0.464234  164.743299
 0.71832   9.514352   84.679439    0.666909
 0.004350   0.184583  141.393218
 0.85916   9.514352   84.679439    0.666909
 0.004350   0.130887  130.866808
 1.00000   9.514352   84.679439    0.666909
 0.004350   0.468551  136.751050

 COMB DB-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -9.741526  -117.060951   -0.807097
-0.004264   -0.885531   -97.542253
 0.57748  -9.741526  -117.060951   -0.807097
-0.004264   -0.547885   -56.270016
 0.71832  -9.741526  -117.060951   -0.807097
-0.004264   -0.220415   -25.084765
 0.85916  -9.741526  -117.060951   -0.807097
-0.004264   -0.101977   -18.428700
 1.00000  -9.741526  -117.060951   -0.807097
-0.004264   -0.374761   -13.464594
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2134

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   11.093463   73.065167    0.712746
 0.003635   0.793060  170.264782
 0.57748   11.093463   73.065167    0.712746
 0.003635   0.494198  143.289108
 0.71832   11.093463   73.065167    0.712746
 0.003635   0.195408  122.824495
 0.85916   11.093463   73.065167    0.712746
 0.003635   0.137105  113.049301
 1.00000   11.093463   73.065167    0.712746
 0.003635   0.499370  116.979797

 COMB DB-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -8.302138  -111.259211   -0.865363
-0.003701   -0.952388  -134.388482
 0.57748  -8.302138  -111.259211   -0.865363
-0.003701   -0.590181   -94.364327
 0.71832  -8.302138  -111.259211   -0.865363
-0.003701   -0.236487   -62.504714
 0.85916  -8.302138  -111.259211   -0.865363
-0.003701   -0.109402   -51.284096
 1.00000  -8.302138  -111.259211   -0.865363
-0.003701   -0.402439   -41.622289

 COMB DB-G3-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   5.054483    4.417295    0.255234
 1.18E-05   0.281398   12.707617
 0.57748   5.054483    4.417295    0.255234
 1.18E-05   0.174382   10.861049
 0.71832   5.054483    4.417295    0.255234
 1.18E-05   0.067335    9.027063
 0.85916   5.054483    4.417295    0.255234
 1.18E-05   0.043486    7.230721
 1.00000   5.054483    4.417295    0.255234
 1.18E-05   0.170009    5.522463

 COMB DB-G3-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -0.085459  -19.515009   -0.301546
-0.000176   -0.335777   -82.575103
 0.57748  -0.085459  -19.515009   -0.301546
-0.000176   -0.209333   -74.447088
 0.71832  -0.085459  -19.515009   -0.301546
-0.000176   -0.082888   -66.319114
 0.85916  -0.085459  -19.515009   -0.301546
-0.000176   -0.039612   -58.290549
 1.00000  -0.085459  -19.515009   -0.301546
-0.000176   -0.146667   -50.236504

 COMB DB-G3-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   9.079875    6.062201    0.400313
 0.000308   0.443061   17.478246
 0.57748   9.079875    6.062201    0.400313
 0.000308   0.275214   15.089600
 0.71832   9.079875    6.062201    0.400313
 0.000308   0.107410   13.361743
 0.85916   9.079875    6.062201    0.400313
 0.000308   0.074341   12.372612
 1.00000   9.079875    6.062201    0.400313
 0.000308   0.286063   12.228679

 COMB DB-G3-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -1.128084  -47.872380   -0.504541
-0.000615   -0.560226  -139.797180
 0.57748  -1.128084  -47.872380   -0.504541
-0.000615   -0.348708  -120.716048
 0.71832  -1.128084  -47.872380   -0.504541
-0.000615   -0.137772  -102.649612
 0.85916  -1.128084  -47.872380   -0.504541
-0.000615   -0.060964   -84.780562
 1.00000  -1.128084  -47.872380   -0.504541
-0.000615   -0.228480   -67.905267
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2135

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   12.252334    6.139845    0.413011
 0.000748   0.456938   35.406879
 0.57748   12.252334    6.139845    0.413011
 0.000748   0.283753   35.060017
 0.71832   12.252334    6.139845    0.413011
 0.000748   0.110614   36.635580
 0.85916   12.252334    6.139845    0.413011
 0.000748   0.075820   43.358889
 1.00000   12.252334    6.139845    0.413011
 0.000748   0.292158   66.520575

 COMB DB-G3-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -0.824132  -101.147021   -0.515669
-0.001041   -0.572602  -165.571543
 0.57748  -0.824132  -101.147021   -0.515669
-0.001041   -0.323640  -124.146753
 0.71832  -0.824132  -101.147021   -0.515669
-0.001041   -0.141414   -85.872882
 0.85916  -0.824132  -101.147021   -0.515669
-0.001041   -0.063276   -72.482937
 1.00000  -0.824132  -101.147021   -0.515669
-0.001041   -0.235850   -60.685275

 COMB DB-G3-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   12.529820   56.778733    0.634461
 0.003966   0.704601  149.884799
 0.57748   12.529820   56.778733    0.634461
 0.003966   0.438563  130.089746
 0.71832   12.529820   56.778733    0.634461
 0.003966   0.172567  117.777211
 0.85916   12.529820   56.778733    0.634461
 0.003966   0.127440  117.452685
 1.00000   12.529820   56.778733    0.634461
 0.003966   0.455831  130.663233

 COMB DB-G3-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -5.717389  -118.481433   -0.784680
-0.004060   -0.860607  -149.915369
 0.57748  -5.717389  -118.481433   -0.784680
-0.004060   -0.532352  -107.932849
 0.71832  -5.717389  -118.481433   -0.784680
-0.004060   -0.214200   -75.377575
 0.85916  -5.717389  -118.481433   -0.784680
-0.004060   -0.100398   -63.208799
 1.00000  -5.717389  -118.481433   -0.784680
-0.004060   -0.359622   -52.552119

 COMB DL-G1-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   0.158081   74.820206    0.852607
 0.000682   0.948920  100.927032
 0.57748   0.158081   74.820206    0.852607
 0.000682   0.591338   69.758521
 0.71832   0.158081   74.820206    0.852607
 0.000682   0.233526   38.589859
 0.85916   0.158081   74.820206    0.852607
 0.000682   0.123680    9.479821
 1.00000   0.158081   74.820206    0.852607
 0.000682   0.490863    2.767295

 COMB DL-G1-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -11.069178   -7.660204   -0.874815
-0.000450   -0.976457  -20.035597
 0.57748  -11.069178   -7.660204   -0.874815
-0.000450   -0.609727   -17.003616
 0.71832  -11.069178   -7.660204   -0.874815
-0.000450   -0.242994   -14.445560
 0.85916  -11.069178   -7.660204   -0.874815
-0.000450   -0.121237   -13.155258
 1.00000  -11.069178   -7.660204   -0.874815
-0.000450   -0.478360   -33.650952
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2136

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   5.577593  104.597098    1.162928
 0.007063   1.291564  201.813723
 0.57748   5.577593  104.597098    1.162928
 0.007063   0.805056  163.631974
 0.71832   5.577593  104.597098    1.162928
 0.007063   0.319450  138.864944
 0.85916   5.577593  104.597098    1.162928
 0.007063   0.214352  129.291448
 1.00000   5.577593  104.597098    1.162928
 0.007063   0.754507  134.295076

 COMB DL-G1-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -13.331521   -87.279329   -1.290626
-0.006778   -1.413053   -51.928266
 0.57748  -13.331521   -87.279329   -1.290626
-0.006778   -0.876284   -25.385265
 0.71832  -13.331521   -87.279329   -1.290626
-0.006778   -0.338957   -19.428248
 0.85916  -13.331521   -87.279329   -1.290626
-0.006778   -0.190987   -15.595726
 1.00000  -13.331521   -87.279329   -1.290626
-0.006778   -0.662937   -22.573838

 COMB DL-G1-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   8.190057   93.664862    1.125595
 0.005404   1.251821  185.659006
 0.57748   8.190057   93.664862    1.125595
 0.005404   0.780595  152.512323
 0.71832   8.190057   93.664862    1.125595
 0.005404   0.310572  130.768701
 0.85916   8.190057   93.664862    1.125595
 0.005404   0.200614  127.275212
 1.00000   8.190057   93.664862    1.125595
 0.005404   0.734509  141.008529

 COMB DL-G1-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -12.222710  -112.549663   -1.273302
-0.005203   -1.402778   -85.189824
 0.57748  -12.222710  -112.549663   -1.273302
-0.005203   -0.871713   -46.744736
 0.71832  -12.222710  -112.549663   -1.273302
-0.005203   -0.349344   -23.658388
 0.85916  -12.222710  -112.549663   -1.273302
-0.005203   -0.176365   -15.614944
 1.00000  -12.222710  -112.549663   -1.273302
-0.005203   -0.636315   -20.469838

 COMB DL-G1-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   9.723239   80.900530    1.138672
 0.004516   1.265558  162.996379
 0.57748   9.723239   80.900530    1.138672
 0.004516   0.788491  134.182420
 0.71832   9.723239   80.900530    1.138672
 0.004516   0.312856  114.854069
 0.85916   9.723239   80.900530    1.138672
 0.004516   0.201228  110.658743
 1.00000   9.723239   80.900530    1.138672
 0.004516   0.744764  120.768561

 COMB DL-G1-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -10.975049  -113.625327   -1.296960
-0.004462   -1.431357  -128.825038
 0.57748  -10.975049  -113.625327   -1.296960
-0.004462   -0.889893   -88.676886
 0.71832  -10.975049  -113.625327   -1.296960
-0.004462   -0.355582   -61.429042
 0.85916  -10.975049  -113.625327   -1.296960
-0.004462   -0.176511   -47.058647
 1.00000  -10.975049  -113.625327   -1.296960
-0.004462   -0.643599   -43.229898
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2137

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   6.309135    9.727824    0.219057
 0.004629   0.242001   59.384491
 0.57748   6.309135    9.727824    0.219057
 0.004629   0.151112   61.782867
 0.71832   6.309135    9.727824    0.219057
 0.004629   0.060256   76.071708
 0.85916   6.309135    9.727824    0.219057
 0.004629   0.067800  104.257094
 1.00000   6.309135    9.727824    0.219057
 0.004629   0.203394  138.202966

 COMB DL-G2-1 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -0.727420  -88.617819   -0.325746
-0.004617   -0.344649   -42.231879
 0.57748  -0.727420  -88.617819   -0.325746
-0.004617   -0.211014   -14.129886
 0.71832  -0.727420  -88.617819   -0.325746
-0.004617   -0.086278    -4.234605
 0.85916  -0.727420  -88.617819   -0.325746
-0.004617   -0.048827    -3.259241
 1.00000  -0.727420  -88.617819   -0.325746
-0.004617   -0.129512    -2.272548

 COMB DL-G2-2 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   9.876574    9.752479    0.352396
 0.004595   0.391058   58.165178
 0.57748   9.876574    9.752479    0.352396
 0.004595   0.243716   60.627662
 0.71832   9.876574    9.752479    0.352396
 0.004595   0.097187   74.626805
 0.85916   9.876574    9.752479    0.352396
 0.004595   0.088437  107.382459
 1.00000   9.876574    9.752479    0.352396
 0.004595   0.292306  148.156997

 COMB DL-G2-2 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -1.567363  -123.178275   -0.487620
-0.004676   -0.526545   -95.262323
 0.57748  -1.567363  -123.178275   -0.487620
-0.004676   -0.324696   -52.579058
 0.71832  -1.567363  -123.178275   -0.487620
-0.004676   -0.130495   -25.176483
 0.85916  -1.567363  -123.178275   -0.487620
-0.004676   -0.065651   -16.335355
 1.00000  -1.567363  -123.178275   -0.487620
-0.004676   -0.202465   -11.383254

 COMB DL-G2-3 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   8.991393   82.901534    0.892227
 0.003466   0.993169  201.563034
 0.57748   8.991393   82.901534    0.892227
 0.003466   0.619388  172.044126
 0.71832   8.991393   82.901534    0.892227
 0.003466   0.246353  150.965380
 0.85916   8.991393   82.901534    0.892227
 0.003466   0.161181  144.588483
 1.00000   8.991393   82.901534    0.892227
 0.003466   0.600499  145.610343

 COMB DL-G2-3 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -9.204219  -105.600523   -1.048310
-0.003371   -1.158296   -96.103738
 0.57748  -9.204219  -105.600523   -1.048310
-0.003371   -0.720199   -58.456535
 0.71832  -9.204219  -105.600523   -1.048310
-0.003371   -0.287180   -31.573522
 0.85916  -9.204219  -105.600523   -1.048310
-0.003371   -0.136159   -21.592029
 1.00000  -9.204219  -105.600523   -1.048310
-0.003371   -0.503007   -15.608143
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2138

 F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ---------- MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664   10.750174   73.076272    0.968779
 0.002899   1.077064  179.959283
 0.57748   10.750174   73.076272    0.968779
 0.002899   0.671157  153.685429
 0.71832   10.750174   73.076272    0.968779
 0.002899   0.266116  134.453105
 0.85916   10.750174   73.076272    0.968779
 0.002899   0.172491  127.590517
 1.00000   10.750174   73.076272    0.968779
 0.002899   0.650680  126.952212

 COMB DL-G2-4 ---------- MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.43664  -7.874201  -105.426879   -1.140433
-0.002943   -1.262336  -143.734230
 0.57748  -7.874201  -105.426879   -1.140433
-0.002943   -0.785382  -105.197114
 0.71832  -7.874201  -105.426879   -1.140433
-0.002943   -0.312626   -75.646957
 0.85916  -7.874201  -105.426879   -1.140433
-0.002943   -0.146665   -60.372511
 1.00000  -7.874201  -105.426879   -1.140433
-0.002943   -0.546318   -48.122034
```

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43664	5.640223	7.035170	0.366056
8.89E-06	0.405497	21.364365	
0.57748	5.640223	7.035170	0.366056
8.89E-06	0.251910	18.418470	
0.71832	5.640223	7.035170	0.366056
8.89E-06	0.098857	15.483271	
0.85916	5.640223	7.035170	0.366056
8.89E-06	0.062521	12.581450	
1.00000	5.640223	7.035170	0.366056
8.89E-06	0.244934	9.767494	

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43664	-0.108467	-24.768594	-0.434826
-0.000167	-0.484232	-100.304885	
0.57748	-0.108467	-24.768594	-0.434826
-0.000167	-0.301841	-89.988006	
0.71832	-0.108467	-24.768594	-0.434826
-0.000167	-0.119381	-79.697668	
0.85916	-0.108467	-24.768594	-0.434826
-0.000167	-0.053519	-69.440221	
1.00000	-0.108467	-24.768594	-0.434826
-0.000167	-0.206929	-59.262402	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43664	9.098741	9.318067	0.572793
0.000237	0.634499	28.066815	
0.57748	9.098741	9.318067	0.572793
0.000237	0.394287	24.384869	
0.71832	9.098741	9.318067	0.572793
0.000237	0.154508	21.048197	
0.85916	9.098741	9.318067	0.572793
0.000237	0.099020	18.287024	
1.00000	9.098741	9.318067	0.572793
0.000237	0.384820	16.765937	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43664	-1.433878	-54.503121	-0.682327
-0.000500	-0.756842	-161.581220	
0.57748	-1.433878	-54.503121	-0.682327
-0.000500	-0.472684	-139.274478	
0.71832	-1.433878	-54.503121	-0.682327
-0.000500	-0.186616	-117.732786	
0.85916	-1.433878	-54.503121	-0.682327
-0.000500	-0.084468	-97.119014	
1.00000	-1.433878	-54.503121	-0.682327
-0.000500	-0.302585	-77.583502	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD > 2139

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43664	11.897255	8.770169	0.591076
0.000370	0.656477	44.884919	
0.57748	11.897255	8.770169	0.591076
0.000370	0.407834	44.603356	
0.71832	11.897255	8.770169	0.591076
0.000370	0.161058	47.631967	
0.85916	11.897255	8.770169	0.591076
0.000370	0.103127	59.263653	
1.00000	11.897255	8.770169	0.591076
0.000370	0.413035	78.346551	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43664	-0.971324	-98.634612	-0.736641
-0.000626	-0.821353	-176.144040	
0.57748	-0.971324	-98.634612	-0.736641
-0.000626	-0.512172	-137.635728	
0.71832	-0.971324	-98.634612	-0.736641
-0.000626	-0.202215	-102.073954	
0.85916	-0.971324	-98.634612	-0.736641
-0.000626	-0.084158	-84.657285	
1.00000	-0.971324	-98.634612	-0.736641
-0.000626	-0.330883	-69.518699	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43664	12.458708	58.471720	0.873478
0.002944	0.970274	165.226321	
0.57748	12.458708	58.471720	0.873478
0.002944	0.603862	145.328838	
0.71832	12.458708	58.471720	0.873478
0.002944	0.238981	133.009876	
0.85916	12.458708	58.471720	0.873478
0.002944	0.162265	133.293768	
1.00000	12.458708	58.471720	0.873478
0.002944	0.606368	139.693769	

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43664	-5.463677	-110.785090	-1.058677
-0.003045	-1.166951	-162.243220	
0.57748	-5.463677	-110.785090	-1.058677
-0.003045	-0.727078	-121.796236	
0.71832	-5.463677	-110.785090	-1.058677
-0.003045	-0.289097	-91.056428	
0.85916	-5.463677	-110.785090	-1.058677
-0.003045	-0.134436	-75.071057	
1.00000	-5.463677	-110.785090	-1.058677
-0.003045	-0.493702	-61.158142	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43664	12.529820	107.330639	0.872524
0.007214	0.974586	199.328323	
0.57748	12.529820	107.330639	0.872524
0.007214	0.608714	164.743299	
0.71832	12.529820	107.330639	0.872524
0.007214	0.242801	141.393218	
0.85916	12.529820	107.330639	0.872524
0.007214	0.172405	130.866808	
1.00000	12.529820	107.330639	0.872524
0.007214	0.598782	141.386553	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43664	-13.549438	-136.809446	-1.020011
-0.006931	-1.112716	-165.571543	
0.57748	-13.549438	-136.809446	-1.020011
-0.006931	-0.686532	-124.146753	
0.71832	-13.549438	-136.809446	-1.020011
-0.006931	-0.278677	-102.649612	
0.85916	-13.549438	-136.809446	-1.020011
-0.006931	-0.135540	-84.780562	
1.00000	-13.549438	-136.809446	-1.020011
-0.006931	-0.488906	-67.905267	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD > 2140

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43664	12.458708	104.597098	1.162928
0.007063	1.291564	201.813723	
0.57748	12.458708	104.597098	1.162928
0.007063	0.805056	172.044126	
0.71832	12.458708	104.597098	1.162928
0.007063	0.319450	150.965380	
0.85916	12.458708	104.597098	1.162928
0.007063	0.214352	144.588483	
1.00000	12.458708	104.597098	1.162928
0.007063	0.754507	148.156997	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43664	-13.331521	-123.178275	-1.296960
-0.006778	-1.431357	-176.144040	
0.57748	-13.331521	-123.178275	-1.296960
-0.006778	-0.889893	-139.274478	
0.71832	-13.331521	-123.178275	-1.296960
-0.006778	-0.355582	-117.732786	
0.85916	-13.331521	-123.178275	-1.296960
-0.006778	-0.190987	-97.119014	
1.00000	-13.331521	-123.178275	-1.296960
-0.006778	-0.662937	-77.583502	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43664	12.529820	107.330639	1.162928
0.007214	1.291564	201.813723	
0.57748	12.529820	107.330639	1.162928
0.007214	0.805056	172.044126	
0.71832	12.529820	107.330639	1.162928
0.007214	0.319450	150.965380	
0.85916	12.529820	107.330639	1.162928
0.007214	0.214352	144.588483	
1.00000	12.529820	107.330639	1.162928
0.007214	0.754507	148.156997	

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43664	-13.549438	-136.809446	-1.296960
-0.006931	-1.431357	-176.144040	
0.57748	-13.549438	-136.809446	-1.296960
-0.006931	-0.889893	-139.274478	
0.71832	-13.549438	-136.809446	-1.296960
-0.006931	-0.355582	-117.732786	
0.85916	-13.549438	-136.809446	-1.296960
-0.006931	-0.190987	-97.119014	
1.00000	-13.549438	-136.809446	-1.296960
-0.006931	-0.662937	-77.583502	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43664	12.529820	107.330639	1.162928
0.007214	1.291564	201.813723	
0.57748	12.529820	107.330639	1.162928
0.007214	0.805056	172.044126	
0.71832	12.529820	107.330639	1.162928
0.007214	0.319450	150.965380	
0.85916	12.529820	107.330639	1.162928
0.007214	0.214352	144.588483	
1.00000	12.529820	107.330639	1.162928
0.007214	0.754507	148.156997	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43664	-13.549438	-136.809446	-1.296960
-0.006931	-1.431357	-176.144040	
0.57748	-13.549438	-136.809446	-1.296960
-0.006931	-0.889893	-139.274478	
0.71832	-13.549438	-136.809446	-1.296960
-0.006931	-0.355582	-117.732786	
0.85916	-13.549438	-136.809446	-1.296960
-0.006931	-0.190987	-97.119014	
1.00000	-13.549438	-136.809446	-1.296960
-0.006931	-0.662937	-77.583502	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD > 2141

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 189 ========== LENGTH = 2.977425

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.131761	75.165140	0.645411
0.000774	0.363111	2.397598	
0.14085	0.131761	75.165140	0.645411
0.000774	0.092413	2.967299	
0.28169	0.131761	75.165140	0.645411
0.000774	0.187221	3.553321	
0.42254	0.131761	75.165140	0.645411
0.000774	0.466040	4.596106	
0.56338	0.131761	75.165140	0.645411
0.000774	0.744880	6.642838	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-10.701733	-5.486639	-0.664929
-0.000361	-0.370606	-23.471834	
0.14085	-10.701733	-5.486639	-0.664929
-0.000361	-0.091880	-54.673210	
0.28169	-10.701733	-5.486639	-0.664929
-0.000361	-0.178203	-86.109573	
0.42254	-10.701733	-5.486639	-0.664929
-0.000361	-0.448861	-117.550333	
0.56338	-10.701733	-5.486639	-0.664929
-0.000361	-0.719518	-149.020069	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	2.058957	172.892671	0.879531
0.007243	0.493739	125.012464	
0.14085	2.058957	172.892671	0.879531
0.007243	0.139521	99.914667	
0.28169	2.058957	172.892671	0.879531
0.007243	0.275559	75.039677	
0.42254	2.058957	172.892671	0.879531
0.007243	0.670407	68.994060	
0.56338	2.058957	172.892671	0.879531
0.007243	1.085100	75.710824	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-17.743073	-26.969660	-0.992017
-0.006656	-0.579723	-10.732855	
0.14085	-17.743073	-26.969660	-0.992017
-0.006656	-0.165041	-50.421484	
0.28169	-17.743073	-26.969660	-0.992017
-0.006656	-0.243914	-90.435166	
0.42254	-17.743073	-26.969660	-0.992017
-0.006656	-0.612784	-132.121417	
0.56338	-17.743073	-26.969660	-0.992017
-0.006656	-0.981619	-195.488660	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	6.390402	140.962193	0.845062
0.005277	0.475064	124.970047	
0.14085	6.390402	140.962193	0.845062
0.005277	0.130624	131.604309	
0.28169	6.390402	140.962193	0.845062
0.005277	0.263839	138.270833	
0.42254	6.390402	140.962193	0.845062
0.005277	0.648563	158.011106	
0.56338	6.390402	140.962193	0.845062
0.005277	1.046799	186.480440	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-15.253475	-75.641359	-0.951773
-0.004774	-0.550300	-9.635099	
0.14085	-15.253475	-75.641359	-0.951773
-0.004774	-0.152111	-46.293780	
0.28169	-15.253475	-75.641359	-0.951773
-0.004774	-0.233672	-83.147731	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD > 2142

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.42254	-15.253475	-75.641359	-0.951773
-0.004774	-0.588043	-121.095433	
0.56338	-15.253475	-75.641359	-0.951773
-0.004774	-0.942443	-173.762531	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	8.531023	119.207369	0.840533
0.004585	0.472982	105.980425	
0.14085	8.531023	119.207369	0.840533
0.004585	0.128727	110.835581	
0.28169	8.531023	119.207369	0.840533
0.004585	0.270845	118.329830	
0.42254	8.531023	119.207369	0.840533
0.004585	0.668387	137.583710	
0.56338	8.531023	119.207369	0.840533
0.004585	1.077122	166.747389	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-13.385542	-80.820643	-0.976452
-0.004352	-0.561277	-32.532268	
0.14085	-13.385542	-80.820643	-0.976452
-0.004352	-0.152538	-56.373490	
0.28169	-13.385542	-80.820643	-0.976452
-0.004352	-0.231962	-81.066457	
0.42254	-13.385542	-80.820643	-0.976452
-0.004352	-0.584432	-107.756859	
0.56338	-13.385542	-80.820643	-0.976452
-0.004352	-0.936930	-147.548231	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	3.794600	64.788937	0.159420
0.005259	0.186681	135.949570	
0.14085	3.794600	64.788937	0.159420
0.005259	0.034078	128.160574	
0.28169	3.794600	64.788937	0.159420
0.005259	0.071590	120.525643	
0.42254	3.794600	64.788937	0.159420
0.005259	0.166278	127.676572	
0.56338	3.794600	64.788937	0.159420
0.005259	0.277581	145.173174	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-4.294720	-50.130538	-0.268053
-0.005191	-0.172596	-1.667544	
0.14085	-4.294720	-50.130538	-0.268053
-0.005191	-0.061132	-1.088825	
0.28169	-4.294720	-50.130538	-0.268053
-0.005191	-0.044978	-0.713628	
0.42254	-4.294720	-50.130538	-0.268053
-0.005191	-0.111371	-1.718647	
0.56338	-4.294720	-50.130538	-0.268053
-0.005191	-0.178727	-20.868480	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	8.561498	60.596579	0.257356
0.005191	0.145180	141.642590	
0.14085	8.561498	60.596579	0.257356
0.005191	0.048729	148.093528	
0.28169	8.561498	60.596579	0.257356
0.005191	0.069194	157.943303	
0.42254	8.561498	60.596579	0.257356
0.005191	0.238992	182.409051	
0.56338	8.561498	60.596579	0.257356
0.005191	0.393631	216.873474	

COMB DB-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-4.769175	-90.026595	-0.371210
-0.005191	-0.229544	-11.346484	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD > 2143

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.14085	-4.769175	-90.026595	-0.371210
-0.005191	-0.074754	-7.190922	
0.28169	-4.769175	-90.026595	-0.371210
-0.005191	-0.170620	-4.151820	
0.42254	-4.769175	-90.026595	-0.371210
-0.005191	-0.178545	-3.868910	
0.56338	-4.769175	-90.026595	-0.371210
-0.005191	-0.286491	-21.413307	

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	8.267057	120.540097	0.670774
0.004413	0.377052	136.889335	
0.14085	8.267057	120.540097	0.670774
0.004413	0.103776	128.137062	
0.28169	8.267057	120.540097	0.670774
0.004413	0.220362	140.163567	
0.42254	8.267057	120.540097	0.670774
0.004413	0.542717	164.855412	
0.56338	8.267057	120.540097	0.670774
0.004413	0.876018	197.272376	

COMB DB-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-12.018279	-84.169270	-0.796534
-0.004118	-0.460573	-13.457944	
0.14085	-12.018279	-84.169270	-0.796534
-0.004118	-0.127328	-15.314309	
0.28169	-12.018279	-84.169270	-0.796534
-0.004118	-0.185485	-45.034298	
0.42254	-12.018279	-84.169270	-0.796534
-0.004118	-0.466787	-76.991226	
0.56338	-12.018279	-84.169270	-0.796534
-0.004118	-0.748099	-121.760242	

COMB DB-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	10.085388	103.115930	0.704084
0.003800	0.395598	117.100234	
0.14085	10.085388	103.115930	0.704084
0.003800	0.107067	108.788819	
0.28169	10.085388	103.115930	0.704084
0.003800	0.236034	117.422759	
0.42254	10.085388	103.115930	0.704084
0.003800	0.584347	136.975522	
0.56338	10.085388	103.115930	0.704084
0.003800	0.941822	164.214068	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-10.211420	-83.808068	-0.853893
-0.003790	-0.490909	-41.629433	
0.14085	-10.211420	-83.808068	-0.853893
-0.003790	-0.133416	-37.606810	
0.28169	-10.211420	-83.808068	-0.853893
-0.003790	-0.194947	-56.641728	
0.42254	-10.211420	-83.808068	-0.853893
-0.003790	-0.490205	-77.304213	
0.56338	-10.211420	-83.808068	-0.853893
-0.003790	-0.785470	-108.536971	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	5.107900	4.499270	0.233219
0.000145	0.130380	5.529221	
0.14085	5.107900	4.499270	0.233219
0.000145	0.032653	3.944909	
0.28169	5.107900	4.499270	0.233219
0.000145	0.083425	2.627657	
0.42254	5.107900	4.499270	0.233219
0.000145	0.210657	2.224995	
0.56338	5.107900	4.499270	0.233219
0.000145	0.337898	1.935284	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD > 2144

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.087263	-19.597407	-0.303422
-0.000533	-0.171071	-50.255493	
0.14085	-0.087263	-19.597407	-0.303422
-0.000533	-0.043702	-42.363808	
0.28169	-0.087263	-19.597407	-0.303422
-0.000533	-0.065258	-34.578635	
0.42254	-0.087263	-19.597407	-0.303422
-0.000533	-0.163025	-26.821807	
0.56338	-0.087263	-19.597407	-0.303422
-0.000533	-0.260824	-19.090226	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	9.104581	8.214896	0.382679
0.000637	0.215596	12.247100	
0.14085	9.104581	8.214896	0.382679
0.000637	0.055648	12.859599	
0.28169	9.104581	8.214896	0.382679
0.000637	0.138251	18.484858	
0.42254	9.104581	8.214896	0.382679
0.000637	0.347060	26.684594	
0.56338	9.104581	8.214896	0.382679
0.000637	0.556489	35.891103	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1.258955	-46.463006	-0.499538
-0.001199	-0.281470	-67.938710	
0.14085	-1.258955	-46.463006	-0.499538
-0.001199	-0.071893	-53.881699	
0.28169	-1.258955	-46.463006	-0.499538
-0.001199	-0.105479	-41.220920	
0.42254	-1.258955	-46.463006	-0.499538
-0.001199	-0.265916	-30.446258	
0.56338	-1.258955	-46.463006	-0.499538
-0.001199	-0.426379	-21.569074	

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	12.318170	9.547962	0.393973
0.000724	0.221661	66.509836	
0.14085	12.318170	9.547962	0.393973
0.000724	0.057237	91.951387	
0.28169	12.318170	9.547962	0.393973
0.000724	0.145406	120.408187	
0.42254	12.318170	9.547962	0.393973
0.000724	0.366976	151.358095	
0.56338	12.318170	9.547962	0.393973
0.000724	0.589543	183.388206	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1.019828	-99.093461	-0.530907
-0.001177	-0.301045	-60.706685	
0.14085	-1.019828	-99.093461	-0.530907
-0.001177	-0.078353	-48.887235	
0.28169	-1.019828	-99.093461	-0.530907
-0.001177	-0.108847	-37.888107	
0.42254	-1.019828	-99.093461	-0.530907
-0.001177	-0.274046	-28.235549	
0.56338	-1.019828	-99.093461	-0.530907
-0.001177	-0.439265	-20.514474	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	11.320962	92.543042	0.616936
0.004154	0.346216	130.825998	
0.14085	11.320962	92.543042	0.616936
0.004154	0.095532	119.250913	
0.28169	11.320962	92.543042	0.616936
0.004154	0.214794	123.209261	
0.42254	11.320962	92.543042	0.616936
0.004154	0.530888	140.062315	
0.56338	11.320962	92.543042	0.616936
0.004154	0.857807	164.862615	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD > 2145

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-7.992482	-85.883861	-0.781292
-0.004319	-0.453168	-52.564383	
0.14085	-7.992482	-85.883861	-0.781292
-0.004319	-0.126166	-41.917223	
0.28169	-7.992482	-85.883861	-0.781292
-0.004319	-0.171269	-47.059012	
0.42254	-7.992482	-85.883861	-0.781292
-0.004319	-0.429983	-59.175633	
0.56338	-7.992482	-85.883861	-0.781292
-0.004319	-0.688703	-83.768534	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.161613	74.416448	0.849033
0.000668	0.475164	2.764177	
0.14085	0.161613	74.416448	0.849033
0.000668	0.119450	3.258631	
0.28169	0.161613	74.416448	0.849033
0.000668	0.242247	3.764417	
0.42254	0.161613	74.416448	0.849033
0.000668	0.607683	4.641239	
0.56338	0.161613	74.416448	0.849033
0.000668	0.973079	6.902706	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.036330	-7.665742	-0.871711
-0.000294	-0.488951	-33.678536	
0.14085	-11.036330	-7.665742	-0.871711
-0.000294	-0.123079	-62.680457	
0.28169	-11.036330	-7.665742	-0.871711
-0.000294	-0.235811	-91.694935	
0.42254	-11.036330	-7.665742	-0.871711
-0.000294	-0.591751	-120.864942	
0.56338	-11.036330	-7.665742	-0.871711
-0.000294	-0.947597	-151.077391	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.561722	167.595775	1.155213
0.007129	0.660205	134.334379	
0.14085	2.561722	167.595775	1.155213
0.007129	0.190538	108.158778	
0.28169	2.561722	167.595775	1.155213
0.007129	0.351684	82.244474	
0.42254	2.561722	167.595775	1.155213
0.007129	0.867462	73.389921	
0.56338	2.561722	167.595775	1.155213
0.007129	1.397328	80.207343	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.272835	-27.676176	-1.273882
-0.006597	-0.742518	-22.598839	
0.14085	-17.272835	-27.676176	-1.273882
-0.006597	-0.209505	-57.583561	
0.28169	-17.272835	-27.676176	-1.273882
-0.006597	-0.320689	-92.858974	
0.42254	-17.272835	-27.676176	-1.273882
-0.006597	-0.803845	-130.386110	
0.56338	-17.272835	-27.676176	-1.273882
-0.006597	-1.287082	-196.086689	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.114742	138.247970	1.134787
0.005376	0.644482	141.008409	
0.14085	6.114742	138.247970	1.134787
0.005376	0.179658	143.052187	
0.28169	6.114742	138.247970	1.134787
0.005376	0.350114	145.309635	
0.42254	6.114742	138.247970	1.134787
0.005376	0.877593	150.788887	
0.56338	6.114742	138.247970	1.134787
0.005376	1.400543	185.688542	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2146

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.995262	-70.656490	-1.270235
-0.004910	-0.731862	-20.490813	
0.14085	-14.995262	-70.656490	-1.270235
-0.004910	-0.199169	-52.743913	
0.28169	-14.995262	-70.656490	-1.270235
-0.004910	-0.313456	-85.169003	
0.42254	-14.995262	-70.656490	-1.270235
-0.004910	-0.788196	-119.248800	
0.56338	-14.995262	-70.656490	-1.270235
-0.004910	-1.263452	-173.579134	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.028822	117.913939	1.141636
0.004622	0.646778	120.779166	
0.14085	8.028822	117.913939	1.141636
0.004622	0.177407	121.564677	
0.28169	8.028822	117.913939	1.141636
0.004622	0.356482	124.857704	
0.42254	8.028822	117.913939	1.141636
0.004622	0.888414	139.070838	
0.56338	8.028822	117.913939	1.141636
0.004622	1.428394	166.273255	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.274980	-79.032073	-1.292746
-0.004387	-0.741006	-43.255372	
0.14085	-13.274980	-79.032073	-1.292746
-0.004387	-0.198976	-62.441082	
0.28169	-13.274980	-79.032073	-1.292746
-0.004387	-0.315237	-83.094220	
0.42254	-13.274980	-79.032073	-1.292746
-0.004387	-0.792941	-105.003064	
0.56338	-13.274980	-79.032073	-1.292746
-0.004387	-1.271377	-147.884985	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.244572	54.339340	0.218910
0.004449	0.132055	138.210939	
0.14085	4.244572	54.339340	0.218910
0.004449	0.050369	133.318270	
0.28169	4.244572	54.339340	0.218910
0.004449	0.087731	128.596258	
0.42254	4.244572	54.339340	0.218910
0.004449	0.210232	135.394179	
0.56338	4.244572	54.339340	0.218910
0.004449	0.342480	152.326799	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.518150	-47.282734	-0.322061
-0.004377	-0.199690	-2.257150	
0.14085	-3.518150	-47.282734	-0.322061
-0.004377	-0.065418	-1.354084	
0.28169	-3.518150	-47.282734	-0.322061
-0.004377	-0.060486	-0.687407	
0.42254	-3.518150	-47.282734	-0.322061
-0.004377	-0.151447	-1.453615	
0.56338	-3.518150	-47.282734	-0.322061
-0.004377	-0.242314	-21.214635	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.945923	52.320736	0.363985
0.004512	0.212521	148.157076	
0.14085	7.945923	52.320736	0.363985
0.004512	0.070133	155.291053	
0.28169	7.945923	52.320736	0.363985
0.004512	0.132417	165.999661	
0.42254	7.945923	52.320736	0.363985
0.004512	0.326711	188.283967	
0.56338	7.945923	52.320736	0.363985
0.004512	0.529590	220.568230	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2147

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.216280	-83.970426	-0.489631
-0.004488	-0.293230	-11.381309	
0.14085	-4.216280	-83.970426	-0.489631
-0.004488	-0.088391	-6.807048	
0.28169	-4.216280	-83.970426	-0.489631
-0.004488	-0.099050	-4.415626	
0.42254	-4.216280	-83.970426	-0.489631
-0.004488	-0.250946	-3.849003	
0.56338	-4.216280	-83.970426	-0.489631
-0.004488	-0.402919	-22.237346	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.767481	109.810697	0.904199
0.003571	0.512371	145.561853	
0.14085	7.767481	109.810697	0.904199
0.003571	0.140027	134.112090	
0.28169	7.767481	109.810697	0.904199
0.003571	0.288501	146.310050	
0.42254	7.767481	109.810697	0.904199
0.003571	0.720754	169.271906	
0.56338	7.767481	109.810697	0.904199
0.003571	1.158312	200.056894	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.870926	-80.355810	-1.047169
-0.003291	0.598973	-15.592600	
0.14085	-10.870926	-80.355810	-1.047169
-0.003291	-0.159352	-15.002637	
0.28169	-10.870926	-80.355810	-1.047169
-0.003291	-0.248857	-40.728172	
0.42254	-10.870926	-80.355810	-1.047169
-0.003291	-0.627726	-69.883735	
0.56338	-10.870926	-80.355810	-1.047169
-0.003291	-1.006241	-112.637801	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.751427	95.693521	0.973325
0.003104	0.549990	126.920975	
0.14085	9.751427	95.693521	0.973325
0.003104	0.147824	115.706283	
0.28169	9.751427	95.693521	0.973325
0.003104	0.313861	123.535453	
0.42254	9.751427	95.693521	0.973325
0.003104	0.785483	140.590734	
0.56338	9.751427	95.693521	0.973325
0.003104	1.261651	166.053486	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.273886	-84.329231	-1.138463
-0.003054	-0.648290	-48.129012	
0.14085	-9.273886	-84.329231	-1.138463
-0.003054	-0.170340	-40.551329	
0.28169	-9.273886	-84.329231	-1.138463
-0.003054	-0.267820	-54.475729	
0.42254	-9.273886	-84.329231	-1.138463
-0.003054	-0.675435	-71.323157	
0.56338	-9.273886	-84.329231	-1.138463
-0.003054	-1.083460	-100.731139	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.682290	7.095139	0.356087
0.000143	0.199341	9.782100	
0.14085	5.682290	7.095139	0.356087
0.000143	0.050211	7.140856	
0.28169	5.682290	7.095139	0.356087
0.000143	0.120149	4.641456	
0.42254	5.682290	7.095139	0.356087
0.000143	0.302149	2.648561	
0.56338	5.682290	7.095139	0.356087
0.000143	0.484122	2.029355	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2148

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.107107	-24.901042	-0.433722
-0.000457	-0.243350	-59.287243	
0.14085	-0.107107	-24.901042	-0.433722
-0.000457	-0.061231	-49.181749	
0.28169	-0.107107	-24.901042	-0.433722
-0.000457	-0.098046	-39.170532	
0.42254	-0.107107	-24.901042	-0.433722
-0.000457	-0.247207	-29.363475	
0.56338	-0.107107	-24.901042	-0.433722
-0.000457	-0.396474	-20.892630	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.110015	10.666750	0.560667
0.000524	0.314186	16.786976	
0.14085	9.110015	10.666750	0.560667
0.000524	0.080055	16.600206	
0.28169	9.110015	10.666750	0.560667
0.000524	0.187628	21.702786	
0.42254	9.110015	10.666750	0.560667
0.000524	0.472196	28.675613	
0.56338	9.110015	10.666750	0.560667
0.000524	0.756687	37.995259	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.507673	-53.729680	-0.678479
-0.000972	-0.381040	-77.626153	
0.14085	-1.507673	-53.729680	-0.678479
-0.000972	-0.096201	-60.224535	
0.28169	-1.507673	-53.729680	-0.678479
-0.000972	-0.154217	-46.016754	
0.42254	-1.507673	-53.729680	-0.678479
-0.000972	-0.388875	-32.859225	
0.56338	-1.507673	-53.729680	-0.678479
-0.000972	-0.624058	-22.958833	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.041689	8.823661	0.593113
0.000391	0.331383	78.327956	
0.14085	12.041689	8.823661	0.593113
0.000391	0.083577	101.130634	
0.28169	12.041689	8.823661	0.593113
0.000391	0.206377	127.659958	
0.42254	12.041689	8.823661	0.593113
0.000391	0.521787	155.467974	
0.56338	12.041689	8.823661	0.593113
0.000391	0.836457	185.053348	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.948785	-99.575812	-0.749600
-0.000639	-0.419819	-69.543063	
0.14085	-0.948785	-99.575812	-0.749600
-0.000639	-0.104588	-54.726094	
0.28169	-0.948785	-99.575812	-0.749600
-0.000639	-0.162109	-42.062061	
0.42254	-0.948785	-99.575812	-0.749600
-0.000639	-0.410693	-30.256234	
0.56338	-0.948785	-99.575812	-0.749600
-0.000639	-0.659345	-20.691277	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.374860	83.140877	0.874647
0.003173	0.495199	139.675666	
0.14085	11.374860	83.140877	0.874647
0.003173	0.134890	128.629760	
0.28169	11.374860	83.140877	0.874647
0.003173	0.291932	131.727779	
0.42254	11.374860	83.140877	0.874647
0.003173	0.729633	147.096032	
0.56338	11.374860	83.140877	0.874647
0.003173	1.172690	170.850644	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2149

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.987997	-87.915993	-1.059262
-0.003184	-0.604658	-61.170199	
0.14085	-6.987997	-87.915993	-1.059262
-0.003184	-0.160165	-47.596458	
0.28169	-6.987997	-87.915993	-1.059262
-0.003184	-0.240152	-48.189378	
0.42254	-6.987997	-87.915993	-1.059262
-0.003184	-0.606394	-56.108784	
0.56338	-6.987997	-87.915993	-1.059262
-0.003184	-0.972766	-77.627388	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.318170	172.892671	0.879531
0.007243	0.493739	141.642590	
0.14085	12.318170	172.892671	0.879531
0.007243	0.139521	148.093528	
0.28169	12.318170	172.892671	0.879531
0.007243	0.275559	157.947303	
0.42254	12.318170	172.892671	0.879531
0.007243	0.744007	182.490051	
0.56338	12.318170	172.892671	0.879531
0.007243	1.085100	216.873474	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.743073	-99.093461	-0.992017
-0.006656	-0.579723	-67.938710	
0.14085	-17.743073	-99.093461	-0.992017
-0.006656	-0.165041	-56.373490	
0.28169	-17.743073	-99.093461	-0.992017
-0.006656	-0.243914	-90.435166	
0.42254	-17.743073	-99.093461	-0.992017
-0.006656	-0.612784	-132.121417	
0.56338	-17.743073	-99.093461	-0.992017
-0.006656	-0.981619	-195.488660	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.041689	167.595775	1.155213
0.007129	0.660205	148.157076	
0.14085	12.041689	167.595775	1.155213
0.007129	0.190538	155.291053	
0.28169	12.041689	167.595775	1.155213
0.007129	0.356482	165.999661	
0.42254	12.041689	167.595775	1.155213
0.007129	0.888414	188.283967	
0.56338	12.041689	167.595775	1.155213
0.007129	1.428394	220.568230	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.272835	-99.575812	-1.292746
-0.006597	-0.742518	-77.626153	
0.14085	-17.272835	-99.575812	-1.292746
-0.006597	-0.209505	-62.680457	
0.28169	-17.272835	-99.575812	-1.292746
-0.006597	-0.320689	-92.858974	
0.42254	-17.272835	-99.575812	-1.292746
-0.006597	-0.803845	-130.386110	
0.56338	-17.272835	-99.575812	-1.292746
-0.006597	-1.287082	-196.086689	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.318170	172.892671	1.155213
0.007243	0.660205	148.157076	
0.14085	12.318170	172.892671	1.155213
0.007243	0.190538	155.291053	
0.28169	12.318170	172.892671	1.155213
0.007243	0.356482	165.999661	
0.42254	12.318170	172.892671	1.155213
0.007243	0.888414	188.283967	
0.56338	12.318170	172.892671	1.155213
0.007243	1.428394	220.568230	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2150

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.743073	-99.575812	-1.292746
-0.006656	-0.742518	-77.626153	
0.14085	-17.743073	-99.575812	-1.292746
-0.006656	-0.209505	-62.680457	
0.28169	-17.743073	-99.575812	-1.292746
-0.006656	-0.320689	-92.858974	
0.42254	-17.743073	-99.575812	-1.292746
-0.006656	-0.803845	-132.121417	
0.56338	-17.743073	-99.575812	-1.292746
-0.006656	-1.287082	-196.086689	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.318170	172.892671	1.155213
0.007243	0.660205	148.157076	
0.14085	12.318170	172.892671	1.155213
0.007243	0.190538	155.291053	
0.28169	12.318170	172.892671	1.155213
0.007243	0.356482	165.999661	
0.42254	12.318170	172.892671	1.155213
0.007243	0.888414	188.283967	
0.56338	12.318170	172.892671	1.155213
0.007243	1.428394	220.568230	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.743073	-99.575812	-1.292746
-0.006656	-0.742518	-77.626153	
0.14085	-17.743073	-99.575812	-1.292746
-0.006656	-0.209505	-62.680457	
0.28169	-17.743073	-99.575812	-1.292746
-0.006656	-0.320689	-92.858974	
0.42254	-17.743073	-99.575812	-1.292746
-0.006656	-0.803845	-132.121417	
0.56338	-17.743073	-99.575812	-1.292746
-0.006656	-1.287082	-196.086689	

ELEM 190 ========== LENGTH = 2.977528

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	0.154302	75.680741	0.599744
0.000480	0.669993	104.672871	
0.57745	0.154302	75.680741	0.599744
0.000480	0.417842	72.595468	
0.71830	0.154302	75.680741	0.599744
0.000480	0.166927	41.408691	
0.85915	0.154302	75.680741	0.599744
0.000480	0.090634	10.122395	
1.00000	0.154302	75.680741	0.599744
0.000480	0.345907	2.561051	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-10.695338	-5.528211	-0.609097
0.000894	-0.676048	-11.981329	
0.57745	-10.695338	-5.528211	-0.609097
-0.000894	-0.420612	-9.831409	
0.71830	-10.695338	-5.528211	-0.609097
-0.000894	-0.165200	-8.039964	
0.85915	-10.695338	-5.528211	-0.609097
-0.000894	-0.084502	-6.425728	
1.00000	-10.695338	-5.528211	-0.609097
-0.000894	-0.336096	-23.466610	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	4.513088	107.289266	0.804946
0.006792	0.898222	199.283102	
0.57745	4.513088	107.289266	0.804946
0.006792	0.560653	159.177262	
0.71830	4.513088	107.289266	0.804946
0.006792	0.223011	131.586190	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2151

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85915	4.513088	107.289266	0.804946
0.006792	0.151145	121.583146	
1.00000	4.513088	107.289266	0.804946
0.006792	0.503057	124.811481	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-13.484311	-88.143795	-0.841326
-0.007310	-0.910548	-38.382055	
0.57745	-13.484311	-88.143795	-0.841326
-0.007310	-0.557841	-16.262527	
0.71830	-13.484311	-88.143795	-0.841326
-0.007310	-0.226905	-11.873784	
0.85915	-13.484311	-88.143795	-0.841326
-0.007310	-0.133198	-9.337869	
1.00000	-13.484311	-88.143795	-0.841326
-0.007310	-0.452137	-10.784015	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	7.934799	96.503232	0.860722
0.005123	0.964611	186.787239	
0.57745	7.934799	96.503232	0.860722
0.005123	0.603667	151.178699	
0.71830	7.934799	96.503232	0.860722
0.005123	0.242880	124.889885	
0.85915	7.934799	96.503232	0.860722
0.005123	0.146763	113.240983	
1.00000	7.934799	96.503232	0.860722
0.005123	0.514650	124.904513	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-12.367238	-116.713804	-0.878680
-0.005468	-0.960633	-82.301823	
0.57745	-12.367238	-116.713804	-0.878680
-0.005468	-0.592223	-42.667098	
0.71830	-12.367238	-116.713804	-0.878680
-0.005468	-0.238392	-14.078645	
0.85915	-12.367238	-116.713804	-0.878680
-0.005468	-0.131605	-9.572325	
1.00000	-12.367238	-116.713804	-0.878680
-0.005468	-0.479499	-9.642621	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	9.753821	82.340266	0.945684
0.004457	1.059041	160.898842	
0.57745	9.753821	82.340266	0.945684
0.004457	0.662516	130.441763	
0.71830	9.753821	82.340266	0.945684
0.004457	0.266251	107.655116	
0.85915	9.753821	82.340266	0.945684
0.004457	0.153825	97.089347	
1.00000	9.753821	82.340266	0.945684
0.004457	0.550331	105.919813	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-10.963936	-114.645306	-0.946538
-0.004569	-1.038565	-119.723496	
0.57745	-10.963936	-114.645306	-0.946538
-0.004569	-0.641681	-79.746490	
0.71830	-10.963936	-114.645306	-0.946538
-0.004569	-0.256894	-49.324865	
0.85915	-10.963936	-114.645306	-0.946538
-0.004569	-0.143579	-39.222767	
1.00000	-10.963936	-114.645306	-0.946538
-0.004569	-0.528726	-32.514476	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	5.808012	9.206946	0.150138
0.005515	0.169119	50.453976	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57745		5.808012	9.206946	0.150138
0.005515		0.106168	51.835995	
0.71830		5.808012	9.206946	0.150138
0.005515		0.043265	64.304201	
0.85915		5.808012	9.206946	0.150138
0.005515		0.043711	94.502065	
1.00000		5.808012	9.206946	0.150138
0.005515		0.108180	135.642912	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-0.727281	-100.984442	-0.155685
-0.005530		-0.154440	-41.682056	
0.57745		-0.727281	-100.984442	-0.155685
-0.005530		-0.089261	-11.812258	
0.71830		-0.727281	-100.984442	-0.155685
-0.005530		-0.041978	-2.968537	
0.85915		-0.727281	-100.984442	-0.155685
-0.005530		-0.036522	-2.352686	
1.00000		-0.727281	-100.984442	-0.155685
-0.005530		-0.082849	-1.741343	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		10.337526	8.883317	0.358091
0.005491		0.404553	51.577965	
0.57745		10.337526	8.883317	0.358091
0.005491		0.254448	53.355700	
0.71830		10.337526	8.883317	0.358091
0.005491		0.104594	65.742832	
0.85915		10.337526	8.883317	0.358091
0.005491		0.073413	94.790094	
1.00000		10.337526	8.883317	0.358091
0.005491		0.227263	141.363523	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-1.430664	-136.853930	-0.368060
-0.005322		-0.391484	-101.556333	
0.57745		-1.430664	-136.853930	-0.368060
-0.005322		-0.237233	-55.107015	
0.71830		-1.430664	-136.853930	-0.368060
-0.005322		-0.099663	-21.858049	
0.85915		-1.430664	-136.853930	-0.368060
-0.005322		-0.063068	-15.587636	
1.00000		-1.430664	-136.853930	-0.368060
-0.005322		-0.197641	-11.371586	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		9.468763	84.670088	0.732067
0.004144		0.821114	195.951696	
0.57745		9.468763	84.670088	0.732067
0.004144		0.514171	164.786064	
0.71830		9.468763	84.670088	0.732067
0.004144		0.207446	141.424818	
0.85915		9.468763	84.670088	0.732067
0.004144		0.123052	130.852423	
1.00000		9.468763	84.670088	0.732067
0.004144		0.434880	136.689360	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-9.678686	-117.095451	-0.744429
-0.004366		-0.814873	-97.622245	
0.57745		-9.678686	-117.095451	-0.744429
-0.004366		-0.502786	-56.334948	
0.71830		-9.678686	-117.095451	-0.744429
-0.004366		-0.202511	-25.095270	
0.85915		-9.678686	-117.095451	-0.744429
-0.004366		-0.112490	-18.413889	
1.00000		-9.678686	-117.095451	-0.744429
-0.004366		-0.408276	-13.452673	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2153

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		11.031456	73.073728	0.867157
0.003657		0.970501	170.372047	
0.57745		11.031456	73.073728	0.867157
0.003657		0.606927	143.356972	
0.71830		11.031456	73.073728	0.867157
0.003657		0.243695	122.876750	
0.85915		11.031456	73.073728	0.867157
0.003657		0.135579	113.059533	
1.00000		11.031456	73.073728	0.867157
0.003657		0.490176	116.939245	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-8.244406	-111.283872	-0.846086
-0.003648		-0.929956	-134.425631	
0.57745		-8.244406	-111.283872	-0.846086
-0.003648		-0.575217	-94.391586	
0.71830		-8.244406	-111.283872	-0.846086
-0.003648		-0.230363	-62.487397	
0.85915		-8.244406	-111.283872	-0.846086
-0.003648		-0.131435	-51.035350	
1.00000		-8.244406	-111.283872	-0.846086
-0.003648		-0.485470	-41.587198	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		5.014355	4.435110	0.408806
0.000249		0.455232	12.766939	
0.57745		5.014355	4.435110	0.408806
0.000249		0.283848	10.913801	
0.71830		5.014355	4.435110	0.408806
0.000249		0.112751	9.075928	
0.85915		5.014355	4.435110	0.408806
0.000249		0.051317	7.275904	
1.00000		5.014355	4.435110	0.408806
0.000249		0.199324	5.555924	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-0.115208	-19.514422	-0.352689
-1.07E-05		-0.392323	-82.531892	
0.57745		-0.115208	-19.514422	-0.352689
-1.07E-05		-0.244412	-74.402653	
0.71830		-0.115208	-19.514422	-0.352689
-1.07E-05		-0.096508	-66.322091	
0.85915		-0.115208	-19.514422	-0.352689
-1.07E-05		-0.059993	-58.242869	
1.00000		-0.115208	-19.514422	-0.352689
-1.07E-05		-0.230924	-50.189645	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		9.020137	6.121391	0.637315
0.000723		0.712272	17.602653	
0.57745		9.020137	6.121391	0.637315
0.000723		0.445142	15.185388	
0.71830		9.020137	6.121391	0.637315
0.000723		0.178435	13.449779	
0.85915		9.020137	6.121391	0.637315
0.000723		0.086452	12.446282	
1.00000		9.020137	6.121391	0.637315
0.000723		0.331689	12.277484	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-1.097015	-47.871710	-0.584426
-0.000298		-0.648771	-139.758389	
0.57745		-1.097015	-47.871710	-0.584426
-0.000298		-0.403685	-120.669375	
0.71830		-1.097015	-47.871710	-0.584426
-0.000298		-0.159261	-102.603242	
0.85915		-1.097015	-47.871710	-0.584426
-0.000298		-0.094576	-84.734192	
1.00000		-1.097015	-47.871710	-0.584426
-0.000298		-0.358938	-67.854977	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2154

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		12.185896	6.174879	0.677114
0.001133		0.759321	35.612160	
0.57745		12.185896	6.174879	0.677114
0.001133		0.475542	35.236465	
0.71830		12.185896	6.174879	0.677114
0.001133		0.192193	36.781817	
0.85915		12.185896	6.174879	0.677114
0.001133		0.089101	43.445795	
1.00000		12.185896	6.174879	0.677114
0.001133		0.343741	66.546768	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-0.797841	-101.186032	-0.606916
-0.000718		-0.674465	-165.625284	
0.57745		-0.797841	-101.186032	-0.606916
-0.000718		-0.419943	-124.174408	
0.71830		-0.797841	-101.186032	-0.606916
-0.000718		-0.166535	-85.844666	
0.85915		-0.797841	-101.186032	-0.606916
-0.000718		-0.096525	-72.429322	
1.00000		-0.797841	-101.186032	-0.606916
-0.000718		-0.378243	-60.640988	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		12.451692	56.793824	0.826702
0.004089		0.924920	150.017980	
0.57745		12.451692	56.793824	0.826702
0.004089		0.578368	130.176294	
0.71830		12.451692	56.793824	0.826702
0.004089		0.232164	117.846876	
0.85915		12.451692	56.793824	0.826702
0.004089		0.119212	117.482808	
1.00000		12.451692	56.793824	0.826702
0.004089		0.460392	130.644884	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-5.681728	-118.508480	-0.790417
-0.003966		-0.866551	-149.967653	
0.57745		-5.681728	-118.508480	-0.790417
-0.003966		-0.535144	-107.972316	
0.71830		-5.681728	-118.508480	-0.790417
-0.003966		-0.215426	-75.373533	
0.85915		-5.681728	-118.508480	-0.790417
-0.003966		-0.127902	-63.184469	
1.00000		-5.681728	-118.508480	-0.790417
-0.003966		-0.463308	-52.531283	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		0.188482	74.955506	0.768218
0.000382		0.856671	101.322317	
0.57745		0.188482	74.955506	0.768218
0.000382		0.534763	70.082418	
0.71830		0.188482	74.955506	0.768218
0.000382		0.212818	39.180814	
0.85915		0.188482	74.955506	0.768218
0.000382		0.100652	9.686965	
1.00000		0.188482	74.955506	0.768218
0.000382		0.394609	2.970648	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-11.029962	-7.770741	-0.700618
-0.000775		-0.780862	-20.212384	
0.57745		-11.029962	-7.770741	-0.700618
-0.000775		-0.486896	-17.143639	
0.71830		-11.029962	-7.770741	-0.700618
-0.000775		-0.192491	-14.553436	
0.85915		-11.029962	-7.770741	-0.700618
-0.000775		-0.108970	-13.211763	
1.00000		-11.029962	-7.770741	-0.700618
-0.000775		-0.430714	-33.705953	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2155

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		5.546518	104.778231	1.051442
0.006689		1.167153	202.334245	
0.57745		5.546518	104.778231	1.051442
0.006689		0.726994	164.057474	
0.71830		5.546518	104.778231	1.051442
0.006689		0.290176	139.146104	
0.85915		5.546518	104.778231	1.051442
0.006689		0.174187	129.511514	
1.00000		5.546518	104.778231	1.051442
0.006689		0.592759	134.514600	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-13.298020	-87.447100	-1.000098
-0.007163		-1.085646	-52.274842	
0.57745		-13.298020	-87.447100	-1.000098
-0.007163		-0.667636	-25.653290	
0.71830		-13.298020	-87.447100	-1.000098
-0.007163		-0.269574	-19.638649	
0.85915		-13.298020	-87.447100	-1.000098
-0.007163		-0.178198	-15.764372	
1.00000		-13.298020	-87.447100	-1.000098
-0.007163		-0.614295	-22.703207	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		8.162745	93.820880	1.150812
0.005141		1.280109	186.161330	
0.57745		8.162745	93.820880	1.150812
0.005141		0.798212	152.927998	
0.71830		8.162745	93.820880	1.150812
0.005141		0.319486	131.056844	
0.85915		8.162745	93.820880	1.150812
0.005141		0.173257	127.487580	
1.00000		8.162745	93.820880	1.150812
0.005141		0.620125	141.205584	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-12.201387	-112.691835	-1.066660
-0.005479		-1.168317	-85.516891	
0.57745		-12.201387	-112.691835	-1.066660
-0.005479		-0.721351	-47.006497	
0.71830		-12.201387	-112.691835	-1.066660
-0.005479		-0.289140	-23.857440	
0.85915		-12.201387	-112.691835	-1.066660
-0.005479		-0.182708	-15.744664	
1.00000		-12.201387	-112.691835	-1.066660
-0.005479		-0.660474	-20.576170	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		9.702081	81.124640	1.288221
0.004429		1.434012	163.616682	
0.57745		9.702081	81.124640	1.288221
0.004429		0.894516	134.684635	
0.71830		9.702081	81.124640	1.288221
0.004429		0.355247	115.208989	
0.85915		9.702081	81.124640	1.288221
0.004429		0.187595	110.913240	
1.00000		9.702081	81.124640	1.288221
0.004429		0.684834	120.977220	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-10.949371	-113.823463	-1.186785
-0.004573		-1.305210	-129.297055	
0.57745		-10.949371	-113.823463	-1.186785
-0.004573		-0.807833	-89.061404	
0.71830		-10.949371	-113.823463	-1.186785
-0.004573		-0.322607	-61.718625	
0.85915		-10.949371	-113.823463	-1.186785
-0.004573		-0.199321	-47.256673	
1.00000		-10.949371	-113.823463	-1.186785
-0.004573		-0.735788	-43.375707	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2156

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		6.257397	9.758887	0.222873
0.004618		0.246058	59.460114	
0.57745		6.257397	9.758887	0.222873
0.004618		0.152909	61.833949	
0.71830		6.257397	9.758887	0.222873
0.004618		0.062470	76.084989	
0.85915		6.257397	9.758887	0.222873
0.004618		0.052323	104.256451	
1.00000		6.257397	9.758887	0.222873
0.004618		0.145214	138.194632	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-0.729617	-88.662590	-0.223807
-0.004634		-0.230242	-42.385837	
0.57745		-0.729617	-88.662590	-0.223807
-0.004634		-0.137177	-14.249223	
0.71830		-0.729617	-88.662590	-0.223807
-0.004634		-0.058716	-4.348619	
0.85915		-0.729617	-88.662590	-0.223807
-0.004634		-0.051526	-3.358626	
1.00000		-0.729617	-88.662590	-0.223807
-0.004634		-0.140996	-2.342683	

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		9.837829	9.813964	0.526943
0.004694		0.585250	58.344458	
0.57745		9.837829	9.813964	0.526943
0.004694		0.364839	60.764110	
0.71830		9.837829	9.813964	0.526943
0.004694		0.147289	74.696584	
0.85915		9.837829	9.813964	0.526943
0.004694		0.089221	107.431781	
1.00000		9.837829	9.813964	0.526943
0.004694		0.293134	148.151583	

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-1.567439	-123.241099	-0.488464
-0.004574		-0.525266	-95.491938	
0.57745		-1.567439	-123.241099	-0.488464
-0.004574		-0.292422	-52.749994	
0.71830		-1.567439	-123.241099	-0.488464
-0.004574		-0.130616	-25.306019	
0.85915		-1.567439	-123.241099	-0.488464
-0.004574		-0.092904	-16.431617	
1.00000		-1.567439	-123.241099	-0.488464
-0.004574		-0.309473	-11.434932	

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		8.948425	83.054537	0.995846
0.003315		1.109184	201.948809	
0.57745		8.948425	83.054537	0.995846
0.003315		0.691605	172.345385	
0.71830		8.948425	83.054537	0.995846
0.003315		0.276804	151.161427	
0.85915		8.948425	83.054537	0.995846
0.003315		0.144242	144.746348	
1.00000		8.948425	83.054537	0.995846
0.003315		0.529191	145.649924	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-9.197862	-105.721317	-0.918820
-0.003487		-1.011175	-96.459116	
0.57745		-9.197862	-105.721317	-0.918820
-0.003487		-0.625569	-58.738725	
0.71830		-9.197862	-105.721317	-0.918820
-0.003487		-0.249417	-31.782151	
0.85915		-9.197862	-105.721317	-0.918820
-0.003487		-0.152256	-22.078268	
1.00000		-9.197862	-105.721317	-0.918820
-0.003487		-0.567233	-15.691337	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2157

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		10.717333	73.300330	1.196353
0.002930		1.332428	180.498130	
0.57745		10.717333	73.300330	1.196353
0.002930		0.831464	154.110815	
0.71830		10.717333	73.300330	1.196353
0.002930		0.331540	134.750703	
0.85915		10.717333	73.300330	1.196353
0.002930		0.168924	127.817446	
1.00000		10.717333	73.300330	1.196353
0.002930		0.630626	127.032328	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-7.879438	-105.643264	-1.101607
-0.002918		-1.216434	-144.285048	
0.57745		-7.879438	-105.643264	-1.101607
-0.002918		-0.754318	-105.637075	
0.71830		-7.879438	-105.643264	-1.101607
-0.002918		-0.299895	-75.981760	
0.85915		-7.879438	-105.643264	-1.101607
-0.002918		-0.180040	-60.609604	
1.00000		-7.879438	-105.643264	-1.101607
-0.002918		-0.679135	-48.264869	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		5.645293	7.179939	0.581426
0.000207		0.647860	21.706799	
0.57745		5.645293	7.179939	0.581426
0.000207		0.404349	18.702442	
0.71830		5.645293	7.179939	0.581426
0.000207		0.160365	15.706691	
0.85915		5.645293	7.179939	0.581426
0.000207		0.078157	12.745189	
1.00000		5.645293	7.179939	0.581426
0.000207		0.304518	9.867924	

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-0.145606	-24.952266	-0.539705
-8.26E-06		-0.600697	-100.731610	
0.57745		-0.145606	-24.952266	-0.539705
-8.26E-06		-0.374326	-90.320947	
0.71830		-0.145606	-24.952266	-0.539705
-8.26E-06		-0.147920	-79.951310	
0.85915		-0.145606	-24.952266	-0.539705
-8.26E-06		-0.083355	-69.622037	
1.00000		-0.145606	-24.952266	-0.539705
-8.26E-06		-0.327294	-59.373040	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		9.106342	9.562417	0.931519
0.000567		1.038988	28.620291	
0.57745		9.106342	9.562417	0.931519
0.000567		0.648527	24.833963	
0.71830		9.106342	9.562417	0.931519
0.000567		0.258086	21.396965	
0.85915		9.106342	9.562417	0.931519
0.000567		0.124476	18.532245	
1.00000		9.106342	9.562417	0.931519
0.000567		0.482740	16.906364	

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-1.437672	-54.748894	-0.854609
-0.000222		-0.850441	-162.186458	
0.57745		-1.437672	-54.748894	-0.854609
-0.000222		-0.592135	-139.774745	
0.71830		-1.437672	-54.748894	-0.854609
-0.000222		-0.234159	-118.119957	
0.85915		-1.437672	-54.748894	-0.854609
-0.000222		-0.134912	-97.388873	
1.00000		-1.437672	-54.748894	-0.854609
-0.000222		-0.524514	-77.750170	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2158

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		11.882866	8.963079	0.975267
0.000682		1.088783	45.361943	
0.57745		11.882866	8.963079	0.975267
0.000682		0.679778	44.988270	
0.71830		11.882866	8.963079	0.975267
0.000682		0.271417	47.910367	
0.85915		11.882866	8.963079	0.975267
0.000682		0.125388	59.449067	
1.00000		11.882866	8.963079	0.975267
0.000682		0.494650	78.466983	

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-0.991431	-98.851194	-0.880305
-0.000347		-0.980419	-176.713653	
0.57745		-0.991431	-98.851194	-0.880305
-0.000347		-0.610528	-138.903598	
0.71830		-0.991431	-98.851194	-0.880305
-0.000347		-0.241321	-102.413972	
0.85915		-0.991431	-98.851194	-0.880305
-0.000347		-0.137802	-84.886191	
1.00000		-0.991431	-98.851194	-0.880305
-0.000347		-0.545491	-69.681627	

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		12.414522	58.695581	1.157826
0.003035		1.289467	165.766462	
0.57745		12.414522	58.695581	1.157826
0.003035		0.804094	145.755506	
0.71830		12.414522	58.695581	1.157826
0.003035		0.321036	133.305917	
0.85915		12.414522	58.695581	1.157826
0.003035		0.165896	133.484469	
1.00000		12.414522	58.695581	1.157826
0.003035		0.615515	139.804955	

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		-5.481910	-111.014252	-1.072533
-0.002948		-1.182764	-162.866725	
0.57745		-5.481910	-111.014252	-1.072533
-0.002948		-0.732993	-122.290390	
0.71830		-5.481910	-111.014252	-1.072533
-0.002948		-0.291852	-91.439417	
0.85915		-5.481910	-111.014252	-1.072533
-0.002948		-0.175976	-75.338806	
1.00000		-5.481910	-111.014252	-1.072533
-0.002948		-0.658666	-61.335390	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43660		12.451692	107.289266	0.945684
0.006792		1.059041	199.283102	
0.57745		12.451692	107.289266	0.945684
0.006792		0.662516	164.786064	
0.71830		12.451692	107.289266	0.945684
0.006792		0.266251	141.424818	
0.85915		12.451692	107.289266	0.945684
0.006792		0.153825	130.852423	
1.00000		12.451692	107.289266	0.945684
0.006792		0.550331	141.363523	

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -13.484311 -136.853930 -0.946538
-0.007310 -1.038565 -165.625284
0.57745 -13.484311 -136.853930 -0.946538
-0.007310 -0.641681 -124.174408
0.71830 -13.484311 -136.853930 -0.946538
-0.007310 -0.256894 -102.603242
0.85915 -13.484311 -136.853930 -0.946538
-0.007310 -0.143579 -84.734192
1.00000 -13.484311 -136.853930 -0.946538
-0.007310 -0.528726 -67.854977
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 12.414522 104.778231 1.288221
0.006689 1.434012 202.334245
0.57745 12.414522 104.778231 1.288221
0.006689 0.894516 172.345385
0.71830 12.414522 104.778231 1.288221
0.006689 0.357247 151.161427
0.85915 12.414522 104.778231 1.288221
0.006689 0.187595 144.746348
1.00000 12.414522 104.778231 1.288221
0.006689 0.684834 148.151583

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -13.298020 -123.241099 -1.186785
-0.007163 -1.305210 -176.713653
0.57745 -13.298020 -123.241099 -1.186785
-0.007163 -0.807833 -139.774745
0.71830 -13.298020 -123.241099 -1.186785
-0.007163 -0.322607 -118.119957
0.85915 -13.298020 -123.241099 -1.186785
-0.007163 -0.199321 -97.388873
1.00000 -13.298020 -123.241099 -1.186785
-0.007163 -0.735788 -77.750170

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 12.451692 107.289266 1.288221
0.006792 1.434012 202.334245
0.57745 12.451692 107.289266 1.288221
0.006792 0.894516 172.345385
0.71830 12.451692 107.289266 1.288221
0.006792 0.357247 151.161427
0.85915 12.451692 107.289266 1.288221
0.006792 0.187595 144.746348
1.00000 12.451692 107.289266 1.288221
0.006792 0.684834 148.151583

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -13.484311 -136.853930 -1.186785
-0.007310 -1.305210 -176.713653
0.57745 -13.484311 -136.853930 -1.186785
-0.007310 -0.807833 -139.774745
0.71830 -13.484311 -136.853930 -1.186785
-0.007310 -0.322607 -118.119957
0.85915 -13.484311 -136.853930 -1.186785
-0.007310 -0.199321 -97.388873
1.00000 -13.484311 -136.853930 -1.186785
-0.007310 -0.735788 -77.750170

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 12.451692 107.289266 1.288221
0.006792 1.434012 202.334245
0.57745 12.451692 107.289266 1.288221
0.006792 0.894516 172.345385
0.71830 12.451692 107.289266 1.288221
0.006792 0.357247 151.161427
0.85915 12.451692 107.289266 1.288221
0.006792 0.187595 144.746348
1.00000 12.451692 107.289266 1.288221
0.006792 0.684834 148.151583

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -13.484311 -136.853930 -1.186785
-0.007310 -1.305210 -176.713653
0.57745 -13.484311 -136.853930 -1.186785
-0.007310 -0.807833 -139.774745
0.71830 -13.484311 -136.853930 -1.186785
-0.007310 -0.322607 -118.119957
0.85915 -13.484311 -136.853930 -1.186785
-0.007310 -0.199321 -97.388873
1.00000 -13.484311 -136.853930 -1.186785
-0.007310 -0.735788 -77.750170
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 191 ========== LENGTH = 2.976591

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.157396 75.134338 0.606170
0.000397 0.340277 2.558852
0.14081 0.157396 75.134338 0.606170
0.000397 0.086140 3.042981
0.28163 0.157396 75.134338 0.606170
0.000397 0.169574 3.543676
0.42244 0.157396 75.134338 0.606170
0.000397 0.395053 4.695401
0.56326 0.157396 75.134338 0.606170
0.000397 0.629557 6.783051

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.643397 -5.497176 -0.559638
-0.000722 -0.308849 -23.501879
0.14081 -10.643397 -5.497176 -0.559638
-0.000722 -0.074470 -54.663617
0.28163 -10.643397 -5.497176 -0.559638
-0.000722 -0.167853 -86.068660
0.42244 -10.643397 -5.497176 -0.559638
-0.000722 -0.421950 -117.482530
0.56326 -10.643397 -5.497176 -0.559638
-0.000722 -0.676025 -148.925800

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.967427 172.852390 0.803743
0.006705 0.453869 125.166794
0.14081 1.967427 172.852390 0.803743
0.006705 0.135262 99.991354
0.28163 1.967427 172.852390 0.803743
0.006705 0.222629 75.034175
0.42244 1.967427 172.852390 0.803743
0.006705 0.530969 69.016842
0.56326 1.967427 172.852390 0.803743
0.006705 0.861871 75.814130

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.682601 -26.993626 -0.790131
-0.007174 -0.463956 -10.823857
0.14081 -17.682601 -26.993626 -0.790131
-0.007174 -0.134231 -50.486391
0.28163 -17.682601 -26.993626 -0.790131
-0.007174 -0.223955 -90.365495
0.42244 -17.682601 -26.993626 -0.790131
-0.007174 -0.560671 -132.027550
0.56326 -17.682601 -26.993626 -0.790131
-0.007174 -0.897480 -195.350180

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.305144 140.925034 0.897883
0.004815 0.507071 125.113388
0.14081 6.305144 140.925034 0.897883
0.004815 0.143107 131.675806
0.28163 6.305144 140.925034 0.897883
0.004815 0.234066 138.292137
0.42244 6.305144 140.925034 0.897883
0.004815 0.567891 158.035242
0.56326 6.305144 140.925034 0.897883
0.004815 0.917081 186.569902

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.191138 -75.693255 -0.833613
-0.005218 -0.481313 -9.676249
0.14081 -15.191138 -75.693255 -0.833613
-0.005218 -0.132913 -46.321203
0.28163 -15.191138 -75.693255 -0.833613
-0.005218 -0.248209 -83.087372
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42244 -15.191138 -75.693255 -0.833613
-0.005218 -0.624636 -121.010291
0.56326 -15.191138 -75.693255 -0.833613
-0.005218 -1.000974 -173.636336

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.440141 119.203334 0.985475
0.004359 0.555935 106.098450
0.14081 8.440141 119.203334 0.985475
0.004359 0.153138 110.901388
0.28163 8.440141 119.203334 0.985475
0.004359 0.253413 118.369939
0.42244 8.440141 119.203334 0.985475
0.004359 0.619348 137.600090
0.56326 8.440141 119.203334 0.985475
0.004359 0.998053 166.805819

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.306537 -80.858578 -0.903965
-0.004566 -0.518158 -32.556580
0.14081 -13.306537 -80.858578 -0.903965
-0.004566 -0.140035 -56.389777
0.28163 -13.306537 -80.858578 -0.903965
-0.004566 -0.272341 -81.014287
0.42244 -13.306537 -80.858578 -0.903965
-0.004566 -0.685458 -107.687113
0.56326 -13.306537 -80.858578 -0.903965
-0.004566 -1.098513 -147.466376

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.728810 64.786406 0.162530
0.005198 0.084361 135.926404
0.14081 3.728810 64.786406 0.162530
0.005198 0.041634 128.148705
0.28163 3.728810 64.786406 0.162530
0.005198 0.042731 120.535239
0.42244 3.728810 64.786406 0.162530
0.005198 0.093331 127.679485
0.56326 3.728810 64.786406 0.162530
0.005198 0.162794 145.225266

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.294774 -50.172846 -0.166110
-0.005255 -0.116511 -1.735670
0.14081 -4.294774 -50.172846 -0.166110
-0.005255 -0.047826 -1.177210
0.28163 -4.294774 -50.172846 -0.166110
-0.005255 -0.045088 -0.716936
0.42244 -4.294774 -50.172846 -0.166110
-0.005255 -0.113238 -1.718510
0.56326 -4.294774 -50.172846 -0.166110
-0.005255 -0.181362 -20.841346

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.480836 60.609471 0.404286
0.005184 0.231136 141.609964
0.14081 8.480836 60.609471 0.404286
0.005184 0.075974 148.097047
0.28163 8.480836 60.609471 0.404286
0.005184 0.100536 157.968866
0.42244 8.480836 60.609471 0.404286
0.005184 0.238776 182.403123
0.56326 8.480836 60.609471 0.404286
0.005184 0.394609 216.910548

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.738163 -90.080823 -0.372176
-0.005203 -0.230115 -11.371326
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14081 -4.738163 -90.080823 -0.372176
-0.005203 -0.074908 -7.228012
0.28163 -4.738163 -90.080823 -0.372176
-0.005203 -0.110750 -4.125977
0.42244 -4.738163 -90.080823 -0.372176
-0.005203 -0.280281 -3.850036
0.56326 -4.738163 -90.080823 -0.372176
-0.005203 -0.449736 -21.411867

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.186217 120.529099 0.771190
0.004138 0.435152 136.822454
0.14081 8.186217 120.529099 0.771190
0.004138 0.121990 128.111590
0.28163 8.186217 120.529099 0.771190
0.004138 0.199520 140.098334
0.42244 8.186217 120.529099 0.771190
0.004138 0.486318 164.679176
0.56326 8.186217 120.529099 0.771190
0.004138 0.785575 197.109313

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.957827 -84.211682 -0.714437
-0.004395 -0.413003 -13.445616
0.14081 -11.957827 -84.211682 -0.714437
-0.004395 -0.114478 -15.354874
0.28163 -11.957827 -84.211682 -0.714437
-0.004395 -0.213423 -45.003783
0.42244 -11.957827 -84.211682 -0.714437
-0.004395 -0.536737 -76.937705
0.56326 -11.957827 -84.211682 -0.714437
-0.004395 -0.859980 -121.697970

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.994213 103.123250 0.901446
0.003777 0.507790 117.055520
0.14081 9.994213 103.123250 0.901446
0.003777 0.138395 108.765581
0.28163 9.994213 103.123250 0.901446
0.003777 0.228073 117.366627
0.42244 9.994213 103.123250 0.901446
0.003777 0.560525 136.858241
0.56326 9.994213 103.123250 0.901446
0.003777 0.903396 164.092491

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.154727 -83.838108 -0.818411
-0.003820 -0.469378 -41.593590
0.14081 -10.154727 -83.838108 -0.818411
-0.003820 -0.127039 -37.620200
0.28163 -10.154727 -83.838108 -0.818411
-0.003820 -0.249615 -56.600452
0.42244 -10.154727 -83.838108 -0.818411
-0.003820 -0.627532 -77.249979
0.56326 -10.154727 -83.838108 -0.818411
-0.003820 -1.005378 -108.476560

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.068255 4.517167 0.411774
0.000499 0.230836 5.563088
0.14081 5.068255 4.517167 0.411774
0.000499 0.058235 3.977166
0.28163 5.068255 4.517167 0.411774
0.000499 0.096885 2.584745
0.42244 5.068255 4.517167 0.411774
0.000499 0.243728 2.195052
0.56326 5.068255 4.517167 0.411774
0.000499 0.390594 2.907330
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.115995 -19.594514 -0.350409
-0.000181 -0.196902 -50.208023
0.14081 -0.115995 -19.594514 -0.350409
-0.000181 -0.049914 -42.322495
0.28163 -0.115995 -19.594514 -0.350409
-0.000181 -0.114293 -34.542012
0.42244 -0.115995 -19.594514 -0.350409
-0.000181 -0.286937 -26.791823
0.56326 -0.115995 -19.594514 -0.350409
-0.000181 -0.459553 -19.067647

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.043920 8.274344 0.662282
0.001131 0.372286 12.296092
0.14081 9.043920 8.274344 0.662282
0.001131 0.095236 12.892911
0.28163 9.043920 8.274344 0.662282
0.001131 0.159770 18.462516
0.42244 9.043920 8.274344 0.662282
0.001131 0.400210 26.645579
0.56326 9.043920 8.274344 0.662282
0.001131 0.641363 35.870794

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.228389 -46.459483 -0.575389
-0.000710 -0.323354 -67.887328
0.14081 -1.228389 -46.459483 -0.575389
-0.000710 -0.182111 -53.830120
0.28163 -1.228389 -46.459483 -0.575389
-0.000710 -0.183020 -41.168348
0.42244 -1.228389 -46.459483 -0.575389
-0.000710 -0.460664 -30.403971
0.56326 -1.228389 -46.459483 -0.575389
-0.000710 -0.738283 -21.577226

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.251087 9.582145 0.724658
0.001119 0.408386 66.537025
0.14081 12.251087 9.582145 0.724658
0.001119 0.105518 91.981907
0.28163 12.251087 9.582145 0.724658
0.001119 0.167441 120.397833
0.42244 12.251087 9.582145 0.724658
0.001119 0.421299 151.343411
0.56326 12.251087 9.582145 0.724658
0.001119 0.676316 183.401453

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.994696 -99.136059 -0.608471
-0.000782 -0.343877 -60.661692
0.14081 -0.994696 -99.136059 -0.608471
-0.000782 -0.088751 -48.854016
0.28163 -0.994696 -99.136059 -0.608471
-0.000782 -0.199291 -37.853860
0.42244 -0.994696 -99.136059 -0.608471
-0.000782 -0.503129 -28.205801
0.56326 -0.994696 -99.136059 -0.608471
-0.000782 -0.806891 -20.514721

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.208165 92.556592 0.859375
0.004298 0.484342 130.801951
0.14081 11.208165 92.556592 0.859375
0.004298 0.134074 119.258816
0.28163 11.208165 92.556592 0.859375
0.004298 0.214374 123.199527
0.42244 11.208165 92.556592 0.859375
0.004298 0.526682 140.052717
0.56326 11.208165 92.556592 0.859375
0.004298 0.851332 164.740775
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.959224 -85.916180 -0.774913
-0.004185 -0.448636 -52.542741
0.14081 -7.959224 -85.916180 -0.774913
-0.004185 -0.124559 -41.911366
0.28163 -7.959224 -85.916180 -0.774913
-0.004185 -0.238152 -47.012848
0.42244 -7.959224 -85.916180 -0.774913
-0.004185 -0.598450 -59.124844
0.56326 -7.959224 -85.916180 -0.774913
-0.004185 -0.958674 -83.720465

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.193142 74.555846 0.772602
0.000323 0.433099 2.966548
0.14081 0.193142 74.555846 0.772602
0.000323 0.109562 3.350704
0.28163 0.193142 74.555846 0.772602
0.000323 0.192146 3.749237
0.42244 0.193142 74.555846 0.772602
0.000323 0.482576 4.668431
0.56326 0.193142 74.555846 0.772602
0.000323 0.772628 7.179436

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.999988 -7.775714 -0.691679
-0.000615 -0.386776 -33.731839
0.14081 -10.999988 -7.775714 -0.691679
-0.000615 -0.096313 -62.649353
0.28163 -10.999988 -7.775714 -0.691679
-0.000615 -0.214035 -91.571233
0.42244 -10.999988 -7.775714 -0.691679
-0.000615 -0.537913 -120.698978
0.56326 -10.999988 -7.775714 -0.691679
-0.000615 -0.861605 -151.106769

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.512309 167.785352 1.050895
0.006637 0.616918 134.550826
0.14081 2.512309 167.785352 1.050895
0.006637 0.179374 108.262454
0.28163 2.512309 167.785352 1.050895
0.006637 0.269909 82.196154
0.42244 2.512309 167.785352 1.050895
0.006637 0.660737 73.341976
0.56326 2.512309 167.785352 1.050895
0.006637 1.072877 80.410066

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.244185 -27.866069 -0.986572
-0.007064 -0.581427 -22.726719
0.14081 -17.244185 -27.866069 -0.986572
-0.007064 -0.168079 -57.622894
0.28163 -17.244185 -27.866069 -0.986572
-0.007064 -0.291531 -92.732569
0.42244 -17.244185 -27.866069 -0.986572
-0.007064 -0.728019 -130.171536
0.56326 -17.244185 -27.866069 -0.986572
-0.007064 -1.168155 -196.086928

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.075297 138.410223 1.165498
0.004937 0.672662 141.206374
0.14081 6.075297 138.410223 1.165498
0.004937 0.186847 143.135588
0.28163 6.075297 138.410223 1.165498
0.004937 0.289072 145.253629
0.42244 6.075297 138.410223 1.165498
0.004937 0.715657 159.702186
0.56326 6.075297 138.410223 1.165498
0.004937 1.157907 185.816005
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.976181 -70.819516 -1.055615
-0.005322 -0.611516 -20.596862
0.14081 -14.976181 -70.819516 -1.055615
-0.005322 -0.160078 -52.771908
0.28163 -14.976181 -70.819516 -1.055615
-0.005322 -0.322300 -85.064643
0.42244 -14.976181 -70.819516 -1.055615
-0.005322 -0.807180 -119.063347
0.56326 -14.976181 -70.819516 -1.055615
-0.005322 -1.295920 -173.577667

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.997000 118.142994 1.304086
0.004387 0.746621 120.986592
0.14081 7.997000 118.142994 1.304086
0.004387 0.202449 121.646725
0.28163 7.997000 118.142994 1.304086
0.004387 0.322813 124.801088
0.42244 7.997000 118.142994 1.304086
0.004387 0.802093 138.968549
0.56326 7.997000 118.142994 1.304086
0.004387 1.294318 166.424147

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.250267 -79.247600 -1.174798
-0.004598 -0.674925 -43.410211
0.14081 -13.250267 -79.247600 -1.174798
-0.004598 -0.182346 -62.494197
0.28163 -13.250267 -79.247600 -1.174798
-0.004598 -0.360628 -83.008806
0.42244 -13.250267 -79.247600 -1.174798
-0.004598 -0.904494 -105.544130
0.56326 -13.250267 -79.247600 -1.174798
-0.004598 -1.451207 -147.963981

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.180794 54.373390 0.231515
0.004382 0.149917 138.201687
0.14081 4.180794 54.373390 0.231515
0.004382 0.054396 133.305658
0.28163 4.180794 54.373390 0.231515
0.004382 0.059779 128.524923
0.42244 4.180794 54.373390 0.231515
0.004382 0.139687 135.379369
0.56326 4.180794 54.373390 0.231515
0.004382 0.235095 152.324407

COMB DL-G2-1 ---------- MIN

```
REL DIST          P          V2          V3
        T         M2          M3
0.00000   -3.521544  -47.347589   -0.229489
-0.004446   -0.149558   -2.329726
0.14081   -3.521544  -47.347589   -0.229489
-0.004446   -0.053929   -1.420179
0.28163   -3.521544  -47.347589   -0.229489
-0.004446   -0.063731   -0.672999
0.42244   -3.521544  -47.347589   -0.229489
-0.004446   -0.158175   -1.437670
0.56326   -3.521544  -47.347589   -0.229489
-0.004446   -0.254947   -21.192189

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    7.894783   52.384907    0.545224
 0.004481    0.323980  148.151946
0.14081    7.894783   52.384907    0.545224
 0.004481    0.098092  155.264048
0.28163    7.894783   52.384907    0.545224
 0.004481    0.131276  165.941126
0.42244    7.894783   52.384907    0.545224
 0.004481    0.320370  188.217650
0.56326    7.894783   52.384907    0.545224
 0.004481    0.525140  220.525751
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                     2166

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -4.215952   -84.054719   -0.488512
-0.004520   -0.293245   -11.433562
0.14081   -4.215952   -84.054719   -0.488512
-0.004520   -0.089226   -6.865473
0.28163   -4.215952   -84.054719   -0.488512
-0.004520   -0.149736   -4.420839
0.42244   -4.215952   -84.054719   -0.488512
-0.004520   -0.374582   -3.843536
0.56326   -4.215952   -84.054719   -0.488512
-0.004520   -0.603747   -22.264541

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    7.717003   109.963712    1.009963
 0.003314    0.577124   145.601093
0.14081    7.717003   109.963712    1.009963
 0.003314    0.155687   134.108395
0.28163    7.717003   109.963712    1.009963
 0.003314    0.249477   146.231276
0.42244    7.717003   109.963712    1.009963
 0.003314    0.620732   169.054416
0.56326    7.717003   109.963712    1.009963
 0.003314    1.001872   199.971187

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -10.866300   -80.493505   -0.908700
-0.003560   -0.720346   -15.676512
0.14081  -10.866300   -80.493505   -0.908700
-0.003560   -0.139797   -15.073889
0.28163  -10.866300   -80.493505   -0.908700
-0.003560   -0.279688   -40.699706
0.42244  -10.866300   -80.493505   -0.908700
-0.003560   -0.700510   -69.793279
0.56326  -10.866300   -80.493505   -0.908700
-0.003560   -1.124347   -112.654489

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    9.711386   95.917140    1.209337
 0.003042    0.686682   127.003176
0.14081    9.711386   95.917140    1.209337
 0.003042    0.181438   115.711545
0.28163    9.711386   95.917140    1.209337
 0.003042    0.300227   123.448224
0.42244    9.711386   95.917140    1.209337
 0.003042    0.749049   140.366863
0.56326    9.711386   95.917140    1.209337
 0.003042    1.206029   166.051488

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -9.278695   -84.557459   -1.089965
-0.003110   -0.619973   -48.269748
0.14081   -9.278695   -84.557459   -1.089965
-0.003110   -0.163333   -40.639070
0.28163   -9.278695   -84.557459   -1.089965
-0.003110   -0.334844   -54.430367
0.42244   -9.278695   -84.557459   -1.089965
-0.003110   -0.839879   -71.191386
0.56326   -9.278695   -84.557459   -1.089965
-0.003110   -1.346993   -100.801111

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    5.686470    7.239180    0.584112
 0.000420    0.326995    9.882710
0.14081    5.686470    7.239180    0.584112
 0.000420    0.082048    7.185567
0.28163    5.686470    7.239180    0.584112
 0.000420    0.148294    4.613091
0.42244    5.686470    7.239180    0.584112
 0.000420    0.372201    2.550677
0.56326    5.686470    7.239180    0.584112
 0.000420    0.596087    2.105575
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                     2167

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.142338   -25.081216   -0.534038
-0.000170   -0.299118   -59.396551
0.14081   -0.142338   -25.081216   -0.534038
-0.000170   -0.075128   -49.197769
0.28163   -0.142338   -25.081216   -0.534038
-0.000170   -0.161965   -39.117585
0.42244   -0.142338   -25.081216   -0.534038
-0.000170   -0.407135   -29.228759
0.56326   -0.142338   -25.081216   -0.534038
-0.000170   -0.651744   -20.909023

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    9.115095   10.911464    0.943226
 0.000902    0.528742   16.927897
0.14081    9.115095   10.911464    0.943226
 0.000902    0.133595   16.661179
0.28163    9.115095   10.911464    0.943226
 0.000902    0.234861   21.658243
0.42244    9.115095   10.911464    0.943226
 0.000902    0.589187   28.558763
0.56326    9.115095   10.911464    0.943226
 0.000902    0.944020   38.116300

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -1.507985   -53.971772   -0.846261
-0.000574   -0.474872   -77.793221
0.14081   -1.507985   -53.971772   -0.846261
-0.000574   -0.119994   -60.268884
0.28163   -1.507985   -53.971772   -0.846261
-0.000574   -0.261254   -45.971127
0.42244   -1.507985   -53.971772   -0.846261
-0.000574   -0.656555   -32.736467
0.56326   -1.507985   -53.971772   -0.846261
-0.000574   -1.051571   -23.081854

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   12.025962    9.015391    0.997125
 0.000579    0.557566   78.451444
0.14081   12.025962    9.015391    0.997125
 0.000579    0.140494  101.160971
0.28163   12.025962    9.015391    0.997125
 0.000579    0.242182  127.601050
0.42244   12.025962    9.015391    0.997125
 0.000579    0.610061  155.345658
0.56326   12.025962    9.015391    0.997125
 0.000579    0.978647  185.121420

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.967379   -99.795747   -0.877287
-0.000430   -0.491141   -69.706214
0.14081   -0.967379   -99.795747   -0.877287
-0.000430   -0.122960   -54.778511
0.28163   -0.967379   -99.795747   -0.877287
-0.000430   -0.275359   -42.036340
0.42244   -0.967379   -99.795747   -0.877287
-0.000430   -0.692630   -30.150214
0.56326   -0.967379   -99.795747   -0.877287
-0.000430   -1.111045   -20.765608

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   11.321783   83.367269    1.171190
 0.003154    0.666082  139.787082
0.14081   11.321783   83.367269    1.171190
 0.003154    0.176857  128.643323
0.28163   11.321783   83.367269    1.171190
 0.003154    0.292243  131.634404
0.42244   11.321783   83.367269    1.171190
 0.003154    0.728650  146.925430
0.56326   11.321783   83.367269    1.171190
 0.003154    1.174113  170.909563
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                     2168

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -7.007010   -88.153744   -1.062291
-0.003192   -0.605778   -61.346185
0.14081   -7.007010   -88.153744   -1.062291
-0.003192   -0.160662   -47.667346
0.28163   -7.007010   -88.153744   -1.062291
-0.003192   -0.324490   -48.150225
0.42244   -7.007010   -88.153744   -1.062291
-0.003192   -0.813235   -55.963584
0.56326   -7.007010   -88.153744   -1.062291
-0.003192   -1.304313   -77.680821

COMB     DB ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   12.251087   172.852390    0.985475
 0.006705    0.555935   141.609964
0.14081   12.251087   172.852390    0.985475
 0.006705    0.153138   148.097047
0.28163   12.251087   172.852390    0.985475
 0.006705    0.253413   157.968866
0.42244   12.251087   172.852390    0.985475
 0.006705    0.619348   180.123123
0.56326   12.251087   172.852390    0.985475
 0.006705    0.998053   216.910548

COMB     DB ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -17.682601   -99.136059   -0.903965
-0.007174   -0.518158   -67.887328
0.14081  -17.682601   -99.136059   -0.903965
-0.007174   -0.140035   -56.389777
0.28163  -17.682601   -99.136059   -0.903965
-0.007174   -0.272341   -90.365495
0.42244  -17.682601   -99.136059   -0.903965
-0.007174   -0.685458   -132.027550
0.56326  -17.682601   -99.136059   -0.903965
-0.007174   -1.098513   -195.350180

COMB     DL ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   12.025962   167.785352    1.304086
 0.006637    0.746621   148.151946
0.14081   12.025962   167.785352    1.304086
 0.006637    0.202449   155.264048
0.28163   12.025962   167.785352    1.304086
 0.006637    0.322813   165.941126
0.42244   12.025962   167.785352    1.304086
 0.006637    0.802093   188.217650
0.56326   12.025962   167.785352    1.304086
 0.006637    1.294318   220.525751

COMB     DL ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -17.244185   -99.795747   -1.174798
-0.007064   -0.674925   -77.793221
0.14081  -17.244185   -99.795747   -1.174798
-0.007064   -0.182346   -62.649353
0.28163  -17.244185   -99.795747   -1.174798
-0.007064   -0.360628   -92.732569
0.42244  -17.244185   -99.795747   -1.174798
-0.007064   -0.904494   -130.171536
0.56326  -17.244185   -99.795747   -1.174798
-0.007064   -1.451207   -196.086928

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   12.251087   172.852390    1.304086
 0.006705    0.746621   148.151946
0.14081   12.251087   172.852390    1.304086
 0.006705    0.202449   155.264048
0.28163   12.251087   172.852390    1.304086
 0.006705    0.322813   165.941126
0.42244   12.251087   172.852390    1.304086
 0.006705    0.802093   188.217650
0.56326   12.251087   172.852390    1.304086
 0.006705    1.294318   220.525751
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                     2169

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -17.682601   -99.795747   -1.174798
-0.007174   -0.674925   -77.793221
0.14081  -17.682601   -99.795747   -1.174798
-0.007174   -0.182346   -62.649353
0.28163  -17.682601   -99.795747   -1.174798
-0.007174   -0.360628   -92.732569
0.42244  -17.682601   -99.795747   -1.174798
-0.007174   -0.904494   -132.027550
0.56326  -17.682601   -99.795747   -1.174798
-0.007174   -1.451207   -196.086928

COMB   DESIGN ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   12.251087   172.852390    1.304086
 0.006705    0.746621   148.151946
0.14081   12.251087   172.852390    1.304086
 0.006705    0.202449   155.264048
0.28163   12.251087   172.852390    1.304086
 0.006705    0.322813   165.941126
0.42244   12.251087   172.852390    1.304086
 0.006705    0.802093   188.217650
0.56326   12.251087   172.852390    1.304086
 0.006705    1.294318   220.525751

COMB   DESIGN ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -17.682601   -99.795747   -1.174798
-0.007174   -0.674925   -77.793221
0.14081  -17.682601   -99.795747   -1.174798
-0.007174   -0.182346   -62.649353
0.28163  -17.682601   -99.795747   -1.174798
-0.007174   -0.360628   -92.732569
0.42244  -17.682601   -99.795747   -1.174798
-0.007174   -0.904494   -132.027550
0.56326  -17.682601   -99.795747   -1.174798
-0.007174   -1.451207   -196.086928

ELEM      192 ================== LENGTH
=     2.976770

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672    0.441760   72.209693    0.562996
 0.000133    0.626414   98.784595
0.57754    0.441760   72.209693    0.562996
 0.000133    0.390420   68.563885
0.71836    0.441760   72.209693    0.562996
 0.000133    0.154431   38.421645
0.85918    0.441760   72.209693    0.562996
 0.000133    0.078345    8.583609
1.00000    0.441760   72.209693    0.562996
 0.000133    0.292550    2.642665

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43672  -10.115162   -9.752408   -0.510998
-0.001218   -0.564276   -20.863206
0.57754  -10.115162   -9.752408   -0.510998
-0.001218   -0.350067   -16.900606
0.71836  -10.115162   -9.752408   -0.510998
-0.001218   -0.135942   -13.318256
0.85918  -10.115162   -9.752408   -0.510998
-0.001218   -0.098167   -9.962519
1.00000  -10.115162   -9.752408   -0.510998
-0.001218   -0.317608   -23.566243

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672    5.029743  103.096032    0.765794
 0.006304    0.829828  190.877053
0.57754    5.029743  103.096032    0.765794
 0.006304    0.517127  150.385496
0.71836    5.029743  103.096032    0.765794
 0.006304    0.208138  124.312900
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                     2170

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.85918    5.029743  103.096032    0.765794
 0.006304    0.131236  115.560827
1.00000    5.029743  103.096032    0.765794
 0.006304    0.417509  121.701175

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43672  -12.787233  -93.552367   -0.684129
-0.007693   -0.731798   -50.921964
0.57754  -12.787233  -93.552367   -0.684129
-0.007693   -0.445131   -25.800222
0.71836  -12.787233  -93.552367   -0.684129
-0.007693   -0.180306   -18.788764
0.85918  -12.787233  -93.552367   -0.684129
-0.007693   -0.135976   -13.972960
1.00000  -12.787233  -93.552367   -0.684129
-0.007693   -0.455863   -11.974904

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672    8.354304   93.095844    0.954886
 0.004747    1.052665  181.957960
0.57754    8.354304   93.095844    0.954886
 0.004747    0.658121  145.886246
0.71836    8.354304   93.095844    0.954886
 0.004747    0.266226  120.267532
0.85918    8.354304   93.095844    0.954886
 0.004747    0.136206  108.596637
1.00000    8.354304   93.095844    0.954886
 0.004747    0.466263  119.655765

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43672  -11.802689  -120.902197   -0.788164
-0.005681   -0.856813   -95.892530
0.57754  -11.802689  -120.902197   -0.788164
-0.005681   -0.626524   -54.372402
0.71836  -11.802689  -120.902197   -0.788164
-0.005681   -0.211094   -23.607274
0.85918  -11.802689  -120.902197   -0.788164
-0.005681   -0.150692   -13.992160
1.00000  -11.802689  -120.902197   -0.788164
-0.005681   -0.549878   -11.529201

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672    9.869816   81.302790    1.134452
 0.004296    1.257259  160.453910
0.57754    9.869816   81.302790    1.134452
 0.004296    0.786489  128.849619
0.71836    9.869816   81.302790    1.134452
 0.004296    0.317904  105.937960
0.85918    9.869816   81.302790    1.134452
 0.004296    0.151088   94.637444
1.00000    9.869816   81.302790    1.134452
 0.004296    0.533306  102.284391

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43672  -10.354461  -116.562195   -0.912540
-0.004719   -0.998060  -127.504720
0.57754  -10.354461  -116.562195   -0.912540
-0.004719   -0.615619   -86.504100
0.71836  -10.354461  -116.562195   -0.912540
-0.004719   -0.245501   -54.868029
0.85918  -10.354461  -116.562195   -0.912540
-0.004719   -0.172310   -41.178649
1.00000  -10.354461  -116.562195   -0.912540
-0.004719   -0.646203   -33.018039

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672    5.946655    9.263162    0.215754
 0.005488    0.223876   50.704836
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                     2171

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.57754    5.946655    9.263162    0.215754
 0.005488    0.140448   50.032975
0.71836    5.946655    9.263162    0.215754
 0.005488    0.060140   61.866064
0.85918    5.946655    9.263162    0.215754
 0.005488    0.042771   90.721773
1.00000    5.946655    9.263162    0.215754
 0.005488    0.102971  131.052086

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43672   -0.778721  -101.389675   -0.144376
-0.005501   -0.140950   -45.839357
0.57754   -0.778721  -101.389675   -0.144376
-0.005501   -0.080539   -15.360438
0.71836   -0.778721  -101.389675   -0.144376
-0.005501   -0.038428   -3.752728
0.85918   -0.778721  -101.389675   -0.144376
-0.005501   -0.050020   -2.965079
1.00000   -0.778721  -101.389675   -0.144376
-0.005501   -0.139327   -2.264222

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672   10.344236    9.913259    0.565006
 0.005588    0.619469   55.191877
0.57754   10.344236    9.913259    0.565006
 0.005588    0.398216   54.398871
0.71836   10.344236    9.913259    0.565006
 0.005588    0.161973   65.560040
0.85918   10.344236    9.913259    0.565006
 0.005588    0.078502   92.600950
1.00000   10.344236    9.913259    0.565006
 0.005588    0.246401  135.468787

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43672   -1.343450  -136.033826   -0.401299
-0.005153   -0.428205   -105.698181
0.57754   -1.343450  -136.033826   -0.401299
-0.005153   -0.260106   -59.412458
0.71836   -1.343450  -136.033826   -0.401299
-0.005153   -0.108999   -25.904858
0.85918   -1.343450  -136.033826   -0.401299
-0.005153   -0.094699   -16.320838
1.00000   -1.343450  -136.033826   -0.401299
-0.005153   -0.329511   -12.699044

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672    9.369741   83.016030    0.880485
 0.004107    0.974004  193.025157
0.57754    9.369741   83.016030    0.880485
 0.004107    0.609623  160.946348
0.71836    9.369741   83.016030    0.880485
 0.004107    0.247373  137.588901
0.85918    9.369741   83.016030    0.880485
 0.004107    0.119064  126.277983
1.00000    9.369741   83.016030    0.880485
 0.004107    0.413902  129.972627

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43672   -9.180451  -119.255325   -0.704198
-0.004436   -0.768097   -107.260516
0.57754   -9.180451  -119.255325   -0.704198
-0.004436   -0.472995   -64.960645
0.71836   -9.180451  -119.255325   -0.704198
-0.004436   -0.189915   -32.076590
0.85918   -9.180451  -119.255325   -0.704198
-0.004436   -0.136101   -21.396311
1.00000   -9.180451  -119.255325   -0.704198
-0.004436   -0.503546   -15.829442
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                     2172

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672   10.637381   73.768886    1.098446
 0.003774    1.220025  172.635834
0.57754   10.637381   73.768886    1.098446
 0.003774    0.763495  143.981245
0.71836   10.637381   73.768886    1.098446
 0.003774    0.308785  122.608367
0.85918   10.637381   73.768886    1.098446
 0.003774    0.139429  111.311610
1.00000   10.637381   73.768886    1.098446
 0.003774    0.499368  112.482846

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43672   -7.885577  -111.401105   -0.859316
-0.003712   -0.942531   -137.170534
0.57754   -7.885577  -111.401105   -0.859316
-0.003712   -0.582387   -96.938243
0.71836   -7.885577  -111.401105   -0.859316
-0.003712   -0.232318   -64.534590
0.85918   -7.885577  -111.401105   -0.859316
-0.003712   -0.164011   -50.514263
1.00000   -7.885577  -111.401105   -0.859316
-0.003712   -0.622949   -41.112694

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43672    4.470632    7.839506    0.571317
 0.000526    0.639545   20.755934
0.57754    4.470632    7.839506    0.571317
 0.000526    0.400063   17.480621
0.71836    4.470632    7.839506    0.571317
 0.000526    0.160604   14.227767
0.85918    4.470632    7.839506    0.571317
 0.000526    0.062840   11.038095
1.00000    4.470632    7.839506    0.571317
 0.000526    0.241903    7.899959

COMB DB-G3-1 ------------------- MIN
```

```
REL DIST          P          V2          V3
         T         M2         M3
0.43672   -0.277761  -16.959538  -0.426954
-7.02E-06  -0.474002  -73.038672
0.57754   -0.277761  -16.959538  -0.426954
-7.02E-06  -0.295025  -66.103174
0.71836   -0.277761  -16.959538  -0.426954
-7.02E-06  -0.116050  -59.192895
0.85918   -0.277761  -16.959538  -0.426954
-7.02E-06  -0.079478  -52.303473
1.00000   -0.277761  -16.959538  -0.426954
-7.02E-06  -0.318635  -45.485771

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    8.294850   11.175140   0.927074
 0.001145   1.039240   28.490827
0.57754    8.294850   11.175140   0.927074
 0.001145   0.650884   24.226207
0.71836    8.294850   11.175140   0.927074
 0.001145   0.262745   20.532280
0.85918    8.294850   11.175140   0.927074
 0.001145   0.103383   17.431584
1.00000    8.294850   11.175140   0.927074
 0.001145   0.396194   14.985705

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -1.055091  -44.000522  -0.698279
-0.000204  -0.774717  -128.319881
0.57754   -1.055091  -44.000522  -0.698279
-0.000204  -0.482018  -110.933790
0.71836   -1.055091  -44.000522  -0.698279
-0.000204  -0.190004  -94.565200
0.85918   -1.055091  -44.000522  -0.698279
-0.000204  -0.129107  -78.590637
1.00000   -1.055091  -44.000522  -0.698279
-0.000204  -0.515650  -63.160133
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2173

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   11.584205   10.712309   1.037816
 0.001538   1.165190   47.514419
0.57754   11.584205   10.712309   1.037816
 0.001538   0.733713   44.647727
0.71836   11.584205   10.712309   1.037816
 0.001538   0.296575   43.588434
0.85918   11.584205   10.712309   1.037816
 0.001538   0.109237   46.772003
1.00000   11.584205   10.712309   1.037816
 0.001538   0.421013   64.910827

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -0.975139  -97.529973  -0.743589
-0.000542  -0.829339  -159.065108
0.57754   -0.975139  -97.529973  -0.743589
-0.000542  -0.514259  -119.222312
0.71836   -0.975139  -97.529973  -0.743589
-0.000542  -0.203688  -81.576046
0.85918   -0.975139  -97.529973  -0.743589
-0.000542  -0.141798  -66.829313
1.00000   -0.975139  -97.529973  -0.743589
-0.000542  -0.575538  -56.995536

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   11.897457   59.054752   1.097105
 0.004395   1.217335  155.586618
0.57754   11.897457   59.054752   1.097105
 0.004395   0.762068  133.282859
0.71836   11.897457   59.054752   1.097105
 0.004395   0.308941  119.468554
0.85918   11.897457   59.054752   1.097105
 0.004395   0.147989  117.136367
1.00000   11.897457   59.054752   1.097105
 0.004395   0.489680  126.815858

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -5.581641  -117.262662  -0.839331
-0.003955  -0.918891  -148.236671
0.57754   -5.581641  -117.262662  -0.839331
-0.003955  -0.567137  -106.724639
0.71836   -5.581641  -117.262662  -0.839331
-0.003955  -0.215730  -74.2342962
0.85918   -5.581641  -117.262662  -0.839331
-0.003955  -0.165310  -60.006135
1.00000   -5.581641  -117.262662  -0.839331
-0.003955  -0.623555  -50.254479

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    0.401177   70.283526   0.706073
 0.000116   0.785247   93.870160
0.57754    0.401177   70.283526   0.706073
 0.000116   0.489479   64.777295
0.71836    0.401177   70.283526   0.706073
 0.000116   0.193781   36.017754
0.85918    0.401177   70.283526   0.706073
 0.000116   0.080724   8.507574
1.00000    0.401177   70.283526   0.706073
 0.000116   0.308941   3.044193

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -9.749594  -12.179608  -0.542788
-0.001149  -0.601972  -29.205540
0.57754   -9.749594  -12.179608  -0.542788
-0.001149  -0.374232  -2.451774
0.71836   -9.749594  -12.179608  -0.542788
-0.001149  -0.146432  -20.156206
0.85918   -9.749594  -12.179608  -0.542788
-0.001149  -0.102754  -17.007653
1.00000   -9.749594  -12.179608  -0.542788
-0.001149  -0.398490  -34.148980
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2174

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    5.498641   98.924343   1.003315
 0.006277   1.088897  188.233930
0.57754    5.498641   98.924343   1.003315
 0.006277   0.676249  151.919909
0.71836    5.498641   98.924343   1.003315
 0.006277   0.272587  128.914137
0.85918    5.498641   98.924343   1.003315
 0.006277   0.144897  122.219538
1.00000    5.498641   98.924343   1.003315
 0.006277   0.468314  130.057601

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -11.978772  -93.379277  -0.770738
-0.007591  -0.825961  -65.131848
0.57754   -11.978772  -93.379277  -0.770738
-0.007591  -0.502790  -34.656548
0.71836   -11.978772  -93.379277  -0.770738
-0.007591  -0.203439  -26.020971
0.85918   -11.978772  -93.379277  -0.770738
-0.007591  -0.174723  -20.108939
1.00000   -11.978772  -93.379277  -0.770738
-0.007591  -0.593505  -24.353943

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    8.197279   89.276505   1.291498
 0.004823   1.421115  175.215388
0.57754    8.197279   89.276505   1.291498
 0.004823   0.885774  142.967025
0.71836    8.197279   89.276505   1.291498
 0.004823   0.356644  121.644716
0.85918    8.197279   89.276505   1.291498
 0.004823   0.161010  118.939428
1.00000    8.197279   89.276505   1.291498
 0.004823   0.562814  134.034726

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -11.002951  -116.788148  -0.957370
-0.005776  -1.043754  -98.432109
0.57754   -11.002951  -116.788148  -0.957370
-0.005776  -0.642528  -56.790569
0.71836   -11.002951  -116.788148  -0.957370
-0.005776  -0.258104  -31.310318
0.85918   -11.002951  -116.788148  -0.957370
-0.005776  -0.203544  19.664032
1.00000   -11.002951  -116.788148  -0.957370
-0.005776  -0.743060  -22.681647

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    9.449076   78.988245   1.544947
 0.004320   1.708364  157.542182
0.57754    9.449076   78.988245   1.544947
 0.004320   1.065803  128.749489
0.71836    9.449076   78.988245   1.544947
 0.004320   0.427880  109.071761
0.85918    9.449076   78.988245   1.544947
 0.004320   0.187786  104.853942
1.00000    9.449076   78.988245   1.544947
 0.004320   0.678029  115.415989

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -9.731700  -115.120251  -1.168898
-0.004799  -1.282801  -134.838503
0.57754   -9.731700  -115.120251  -1.168898
-0.004799  -0.792815  -92.872560
0.71836   -9.731700  -115.120251  -1.168898
-0.004799  -0.316946  -64.504083
0.85918   -9.731700  -115.120251  -1.168898
-0.004799  -0.235349  -48.047075
1.00000   -9.731700  -115.120251  -1.168898
-0.004799  -0.881352  -43.648747
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2175

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    5.916589    9.624950   0.306846
 0.004578   0.324244  55.353235
0.57754    5.916589    9.624950   0.306846
 0.004578   0.201134  56.975331
0.71836    5.916589    9.624950   0.306846
 0.004578   0.084193  70.090603
0.85918    5.916589    9.624950   0.306846
 0.004578   0.051437  98.063768
1.00000    5.916589    9.624950   0.306846
 0.004578   0.139726  131.744951

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -0.750018  -89.345913  -0.211049
-0.004622  -0.214816  -46.331398
0.57754   -0.750018  -89.345913  -0.211049
-0.004622  -0.126429  -16.612807
0.71836   -0.750018  -89.345913  -0.211049
-0.004622  -0.054884  -8.809868
0.85918   -0.750018  -89.345913  -0.211049
-0.004622  -0.062943  -3.730493
1.00000   -0.750018  -89.345913  -0.211049
-0.004622  -0.190711  -2.686966

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    9.554702   10.898932   0.822013
 0.004776   0.902043   57.392943
0.57754    9.554702   10.898932   0.822013
 0.004776   0.562794   58.218812
0.71836    9.554702   10.898932   0.822013
 0.004776   0.229634   70.042707
0.85918    9.554702   10.898932   0.822013
 0.004776   0.103780  100.924486
1.00000    9.554702   10.898932   0.822013
 0.004776   0.349646  140.063578

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -1.323473  -121.899273  -0.587373
-0.004459  -0.636025  -98.525068
0.57754   -1.323473  -121.899273  -0.587373
-0.004459  -0.389747  -54.874601
0.71836   -1.323473  -121.899273  -0.587373
-0.004459  -0.160226  -27.127027
0.85918   -1.323473  -121.899273  -0.587373
-0.004459  -0.132604  -16.563631
1.00000   -1.323473  -121.899273  -0.587373
-0.004459  -0.475321  -12.377033

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    8.607883   80.650450   1.212048
 0.003266   1.342065  193.357364
0.57754    8.607883   80.650450   1.212048
 0.003266   0.837299  163.806512
0.71836    8.607883   80.650450   1.212048
 0.003266   0.336942  142.194379
0.85918    8.607883   80.650450   1.212048
 0.003266   0.142553  135.476402
1.00000    8.607883   80.650450   1.212048
 0.003266   0.517173  136.360080

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -8.382043  -107.391444  -0.893556
-0.003623  -0.982106  -104.535538
0.57754   -8.382043  -107.391444  -0.893556
-0.003623  -0.607634  -65.001068
0.71836   -8.382043  -107.391444  -0.893556
-0.003623  -0.243132  -36.532520
0.85918   -8.382043  -107.391444  -0.893556
-0.003623  -0.182573  -24.078543
1.00000   -8.382043  -107.391444  -0.893556
-0.003623  -0.688962  -17.234969
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2176

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    9.983401   73.209561   1.519598
 0.003051   1.687371  177.381803
0.57754    9.983401   73.209561   1.519598
 0.003051   1.053577  150.231332
0.71836    9.983401   73.209561   1.519598
 0.003051   0.422463  129.713790
0.85918    9.983401   73.209561   1.519598
 0.003051   0.179493  121.682735
1.00000    9.983401   73.209561   1.519598
 0.003051   0.666113  120.069969

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -7.267853  -104.548955  -1.161192
-0.003038  -1.281322  -143.571537
0.57754   -7.267853  -104.548955  -1.161192
-0.003038  -0.794608  -104.444486
0.71836   -7.267853  -104.548955  -1.161192
-0.003038  -0.316504  -74.578862
0.85918   -7.267853  -104.548955  -1.161192
-0.003038  -0.223426  -57.936372
1.00000   -7.267853  -104.548955  -1.161192
-0.003038  -0.859517  -46.268839

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    4.619584   10.323348   0.796977
 0.000492   0.890463   28.716716
0.57754    4.619584   10.323348   0.796977
 0.000492   0.556349   24.404329
0.71836    4.619584   10.323348   0.796977
 0.000492   0.221724   20.106803
0.85918    4.619584   10.323348   0.796977
 0.000492   0.096770   15.834730
1.00000    4.619584   10.323348   0.796977
 0.000492   0.375196   11.621122

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -0.313573  -20.962092  -0.664432
-4.11E-06  -0.737842  -87.687270
0.57754   -0.313573  -20.962092  -0.664432
-4.11E-06  -0.459247  -79.006126
0.71836   -0.313573  -20.962092  -0.664432
-4.11E-06  -0.180870  -70.353020
0.85918   -0.313573  -20.962092  -0.664432
-4.11E-06  -0.111557  -61.764702
1.00000   -0.313573  -20.962092  -0.664432
-4.11E-06  -0.446099  -53.258555

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    7.946032   14.391987   1.314642
 0.000998   1.469053   38.599845
0.57754    7.946032   14.391987   1.314642
 0.000998   0.918279   32.857759
0.71836    7.946032   14.391987   1.314642
 0.000998   0.366577   27.439270
0.85918    7.946032   14.391987   1.314642
 0.000998   0.154436   22.533686
1.00000    7.946032   14.391987   1.314642
 0.000998   0.598630   18.498967

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -1.204047  -48.804113  -1.060167
-0.000131  -1.178453  -146.052082
0.57754   -1.204047  -48.804113  -1.060167
-0.000131  -0.733664  -126.210576
0.71836   -1.204047  -48.804113  -1.060167
-0.000131  -0.290012  -107.121124
0.85918   -1.204047  -48.804113  -1.060167
-0.000131  -0.158550  -80.055843
1.00000   -1.204047  -48.804113  -1.060167
-0.000131  -0.735612  -71.681536
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2177

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   10.840109   13.387213   1.458354
 0.001080   1.632181   53.342961
0.57754   10.840109   13.387213   1.458354
 0.001080   1.020955   50.373085
0.71836   10.840109   13.387213   1.458354
 0.001080   0.409139   50.177288
0.85918   10.840109   13.387213   1.458354
 0.001080   0.161694   58.610630
1.00000   10.840109   13.387213   1.458354
 0.001080   0.633015   74.602313

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -1.019947  -93.071179  -1.124841
-0.000220  -1.252509  -164.849748
0.57754   -1.019947  -93.071179  -1.124841
-0.000220  -0.780787  -128.171170
0.71836   -1.019947  -93.071179  -1.124841
-0.000220  -0.309684  -94.022925
0.85918   -1.019947  -93.071179  -1.124841
-0.000220  -0.201671  -76.960775
1.00000   -1.019947  -93.071179  -1.124841
-0.000220  -0.812713  -64.414346

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   11.252348   60.425535   1.536730
 0.003350   1.706862  165.953490
0.57754   11.252348   60.425535   1.536730
 0.003350   1.065682  144.419468
0.71836   11.252348   60.425535   1.536730
 0.003350   0.427829  130.034500
0.85918   11.252348   60.425535   1.536730
 0.003350   0.189826  128.528987
1.00000   11.252348   60.425535   1.536730
 0.003350   0.683918  133.242361

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -5.195045  -108.121881  -1.191248
-0.002982  -1.313786  -156.919901
0.57754   -5.195045  -108.121881  -1.191248
-0.002982  -0.814250  -116.612421
0.71836   -5.195045  -108.121881  -1.191248
-0.002982  -0.324379  -86.311925
0.85918   -5.195045  -108.121881  -1.191248
-0.002982  -0.226339  -69.876868
1.00000   -5.195045  -108.121881  -1.191248
-0.002982  -0.869640  -57.396837

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   11.897457  103.096032   1.134452
 0.006304   1.257259  193.025157
0.57754   11.897457  103.096032   1.134452
 0.006304   0.786489  160.946348
0.71836   11.897457  103.096032   1.134452
 0.006304   0.317904  137.588901
0.85918   11.897457  103.096032   1.134452
 0.006304   0.151088  126.277983
1.00000   11.897457  103.096032   1.134452
 0.006304   0.533306  135.468787

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -12.787233 -136.033826  -0.912540
-0.007693  -0.998060  -159.065108
0.57754   -12.787233 -136.033826  -0.912540
-0.007693  -0.615619  -119.222312
0.71836   -12.787233 -136.033826  -0.912540
-0.007693  -0.245501  -94.565200
0.85918   -12.787233 -136.033826  -0.912540
-0.007693  -0.172310  -78.590637
1.00000   -12.787233 -136.033826  -0.912540
-0.007693  -0.646203  -63.160133
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2178

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   11.252348   98.924343   1.544947
 0.006277   1.708364  193.357364
0.57754   11.252348   98.924343   1.544947
 0.006277   1.065803  163.806512
0.71836   11.252348   98.924343   1.544947
 0.006277   0.427880  142.194379
0.85918   11.252348   98.924343   1.544947
 0.006277   0.187786  135.476402
1.00000   11.252348   98.924343   1.544947
 0.006277   0.683918  140.063578

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -11.978772 -121.899273  -1.191248
-0.007591  -1.313786  -164.849748
0.57754   -11.978772 -121.899273  -1.191248
-0.007591  -0.814250  -128.171170
0.71836   -11.978772 -121.899273  -1.191248
-0.007591  -0.324379  -107.121124
0.85918   -11.978772 -121.899273  -1.191248
-0.007591  -0.235349  -89.005843
1.00000   -11.978772 -121.899273  -1.191248
-0.007591  -0.881352  -71.681536

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   11.897457  103.096032   1.544947
 0.006304   1.708364  193.357364
0.57754   11.897457  103.096032   1.544947
 0.006304   1.065803  163.806512
0.71836   11.897457  103.096032   1.544947
 0.006304   0.427880  142.194379
0.85918   11.897457  103.096032   1.544947
 0.006304   0.187786  135.476402
1.00000   11.897457  103.096032   1.544947
 0.006304   0.683918  140.063578

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -12.787233 -136.033826  -1.191248
-0.007693  -1.313786  -164.849748
0.57754   -12.787233 -136.033826  -1.191248
-0.007693  -0.814250  -128.171170
0.71836   -12.787233 -136.033826  -1.191248
-0.007693  -0.324379  -107.121124
0.85918   -12.787233 -136.033826  -1.191248
-0.007693  -0.235349  -89.005843
1.00000   -12.787233 -136.033826  -1.191248
-0.007693  -0.881352  -71.681536

COMB DESIGN ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   11.897457  103.096032   1.544947
 0.006304   1.708364  193.357364
0.57754   11.897457  103.096032   1.544947
 0.006304   1.065803  163.806512
0.71836   11.897457  103.096032   1.544947
 0.006304   0.427880  142.194379
0.85918   11.897457  103.096032   1.544947
 0.006304   0.187786  135.476402
1.00000   11.897457  103.096032   1.544947
 0.006304   0.683918  140.063578

COMB DESIGN ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -12.787233 -136.033826  -1.191248
-0.007693  -1.313786  -164.849748
0.57754   -12.787233 -136.033826  -1.191248
-0.007693  -0.814250  -128.171170
0.71836   -12.787233 -136.033826  -1.191248
-0.007693  -0.324379  -107.121124
0.85918   -12.787233 -136.033826  -1.191248
-0.007693  -0.235349  -89.005843
1.00000   -12.787233 -136.033826  -1.191248
-0.007693  -0.881352  -71.681536
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2179

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      193 ================== LENGTH
=    2.977779

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.447819   71.520537   0.547454
 7.28E-06   0.305846   2.638896
0.14086    0.447819   71.520537   0.547454
 7.28E-06   0.076182   2.992079
0.28172    0.447819   71.520537   0.547454
 7.28E-06   0.131643   4.520414
0.42257    0.447819   71.520537   0.547454
 7.28E-06   0.320582   8.147556
0.56343    0.447819   71.520537   0.547454
 7.28E-06   0.509547   12.044431

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -10.056358   -9.618926  -0.450509
-0.001070  -0.246591  -23.600433
0.14086   -10.056358   -9.618926  -0.450509
-0.001070  -0.057702  -53.154893
```

```
 0.28172  -10.056358   -9.618926   -0.450509
-0.001070   -0.153433  -83.073753
 0.42257  -10.056358   -9.618926   -0.450509
-0.001070   -0.383043 -113.000925
 0.56343  -10.056358   -9.618926   -0.450509
-0.001070   -0.612661 -142.956103

COMB DB-G1-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   2.209838  168.149476   0.752418
 0.006149  0.446043  122.085890
 0.14086   2.209838  168.149476   0.752418
 0.006149  0.131505   97.040734
 0.28172   2.209838  168.149476   0.752418
 0.006149  0.174640   74.204940
 0.42257   2.209838  168.149476   0.752418
 0.006149  0.407458   70.661713
 0.56343   2.209838  168.149476   0.752418
 0.006149  0.663248   80.970551

COMB DB-G1-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -16.911157  -32.164694  -0.610772
-0.007649  -0.363239  -12.011267
 0.14086  -16.911157  -32.164694  -0.610772
-0.007649  -0.107483  -49.673555
 0.28172  -16.911157  -32.164694  -0.610772
-0.007649  -0.207964  -87.809005
 0.42257  -16.911157  -32.164694  -0.610772
-0.007649  -0.508683 -128.522942
 0.56343  -16.911157  -32.164694  -0.610772
-0.007649  -0.816553 -190.658011

COMB DB-G1-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   6.535160  137.130505   0.977444
 0.004321  0.565071  119.885641
 0.14086   6.535160  137.130505   0.977444
 0.004321  0.155813  125.971677
 0.28172   6.535160  137.130505   0.977444
 0.004321  0.205799  134.278343
 0.42257   6.535160  137.130505   0.977444
 0.004321  0.494743  156.025878
 0.56343   6.535160  137.130505   0.977444
 0.004321  0.799178  187.233934

COMB DB-G1-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -14.576412  -79.791946  -0.726320
-0.005601  -0.420614  -11.558792
 0.14086  -14.576412  -79.791946  -0.726320
-0.005601  -0.611653  -46.936603
 0.28172  -14.576412  -79.791946  -0.726320
-0.005601  -0.270500  -82.596320
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2180

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P          V2          V3
       T         M2         M3
 0.42257  -14.576412  -79.791946  -0.726320
-0.005601  -0.670361 -119.949519
 0.56343  -14.576412  -79.791946  -0.726320
-0.005601  -1.075083 -171.838028

COMB DB-G1-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   8.397063  117.905783   1.169071
 0.004099  0.669672  102.482516
 0.14086   8.397063  117.905783   1.169071
 0.004099  0.179939  106.238760
 0.28172   8.397063  117.905783   1.169071
 0.004099  0.241325  114.890587
 0.42257   8.397063  117.905783   1.169071
 0.004099  0.586624  135.499919
 0.56343   8.397063  117.905783   1.169071
 0.004099  0.944776  165.770819

COMB DB-G1-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -12.659385  -82.747024  -0.854302
-0.004702  -0.488542  -33.055781
 0.14086  -12.659385  -82.747024  -0.854302
-0.004702  -0.131434  -56.443475
 0.28172  -12.659385  -82.747024  -0.854302
-0.004702  -0.323974  -80.509231
 0.42257  -12.659385  -82.747024  -0.854302
-0.004702  -0.805936 -107.431184
 0.56343  -12.659385  -82.747024  -0.854302
-0.004702  -1.291931 -147.485902

COMB DB-G2-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   3.633135   64.552195   0.234345
 0.005142  0.153368  131.361509
 0.14086   3.633135   64.552195   0.234345
 0.005142  0.055983  123.610582
 0.28172   3.633135   64.552195   0.234345
 0.005142  0.037673  116.022146
 0.42257   3.633135   64.552195   0.234345
 0.005142  0.057645  123.517645
 0.56343   3.633135   64.552195   0.234345
 0.005142  0.140345  142.288472

COMB DB-G2-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -4.291451  -50.525131  -0.145713
-0.005303  -0.105621   -2.255395
 0.14086  -4.291451  -50.525131  -0.145713
-0.005303  -0.044788   -1.666167
 0.28172  -4.291451  -50.525131  -0.145713
-0.005303  -0.076228   -1.935894
 0.42257  -4.291451  -50.525131  -0.145713
-0.005303  -0.148154   -3.175723
 0.56343  -4.291451  -50.525131  -0.145713
-0.005303  -0.239980   -22.891493

COMB DB-G2-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   8.267618  61.395366   0.620266
 0.005192  0.369206  135.741379
 0.14086   8.267618  61.395366   0.620266
 0.005192  0.109959  141.710771
 0.28172   8.267618  61.395366   0.620266
 0.005192  0.109011  151.362473
 0.42257   8.267618  61.395366   0.620266
 0.005192  0.259369  175.330491
 0.56343   8.267618  61.395366   0.620266
 0.005192  0.427439  210.345114

COMB DB-G2-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -4.601681  -89.311124  -0.401292
-0.005155   -0.247198  -12.694937
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2181

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P          V2          V3
       T         M2         M3
 0.14086  -4.601681  -89.311124  -0.401292
-0.005155   -0.079185   -9.135669
 0.28172  -4.601681  -89.311124  -0.401292
-0.005155   -0.168941   -6.429643
 0.42257  -4.601681  -89.311124  -0.401292
-0.005155   -0.417525   -7.644690
 0.56343  -4.601681  -89.311124  -0.401292
-0.005155   -0.671672  -26.832438

COMB DB-G2-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   7.925832  118.598246   0.915331
 0.003869  0.526931  130.125914
 0.14086   7.925832  118.598246   0.915331
 0.003869  0.143648  122.699722
 0.28172   7.925832  118.598246   0.915331
 0.003869  0.185522  135.363311
 0.42257   7.925832  118.598246   0.915331
 0.003869  0.449237  160.978618
 0.56343   7.925832  118.598246   0.915331
 0.003869  0.725615  194.956309

COMB DB-G2-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -11.419806  -86.348429  -0.659339
-0.004590   -0.381580  -15.815742
 0.14086  -11.419806  -86.348429  -0.659339
-0.004590   -0.105418  -17.817319
 0.28172  -11.419806  -86.348429  -0.659339
-0.004590   -0.253519  -46.665725
 0.42257  -11.419806  -86.348429  -0.659339
-0.004590   -0.629263  -78.669292
 0.56343  -11.419806  -86.348429  -0.659339
-0.004590   -1.008932 -123.704285

COMB DB-G2-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   9.462457  103.648385   1.139560
 0.003735  0.650232  112.617355
 0.14086   9.462457  103.648385   1.139560
 0.003735  0.172777  104.482626
 0.28172   9.462457  103.648385   1.139560
 0.003735  0.228507  113.257766
 0.42257   9.462457  103.648385   1.139560
 0.003735  0.558744  133.988690
 0.56343   9.462457  103.648385   1.139560
 0.003735  0.899586  162.085317

COMB DB-G2-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -9.769639  -83.947457  -0.813003
-0.003830   -0.465251  -41.112561
 0.14086  -9.769639  -83.947457  -0.813003
-0.003830   -0.154543  -37.966321
 0.28172  -9.769639  -83.947457  -0.813003
-0.003830   -0.316328  -57.087020
 0.42257  -9.769639  -83.947457  -0.813003
-0.003830   -0.787453  -78.526812
 0.56343  -9.769639  -83.947457  -0.813003
-0.003830   -1.261865 -110.699151

COMB DB-G3-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   4.519698   8.017015   0.590209
 0.000798  0.330502   7.909589
 0.14086   4.519698   8.017015   0.590209
 0.000798  0.082932   4.909625
 0.28172   4.519698   8.017015   0.590209
 0.000798  0.115522   2.443263
 0.42257   4.519698   8.017015   0.590209
 0.000798  0.288373   2.332938
 0.56343   4.519698   8.017015   0.590209
 0.000798  0.461227   2.491792
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2182

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -0.273325  -17.103773  -0.412101
-1.59E-05   -0.230187   -45.502668
 0.14086  -0.273325  -17.103773  -0.412101
-1.59E-05   -0.057329   -38.788841
 0.28172  -0.273325  -17.103773  -0.412101
-1.59E-05   -0.164663   -32.207625
 0.42257  -0.273325  -17.103773  -0.412101
-1.59E-05   -0.412187   -25.712724
 0.56343  -0.273325  -17.103773  -0.412101
-1.59E-05   -0.659739   -19.236629

COMB DB-G3-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   8.303619  13.479062   0.972326
 0.001574  0.546106  15.010330
 0.14086   8.303619  13.479062   0.972326
 0.001574  0.138285  13.160710
 0.28172   8.303619  13.479062   0.972326
 0.001574  0.190085  17.189163
 0.42257   8.303619  13.479062   0.972326
 0.001574  0.474133  25.096089
 0.56343   8.303619  13.479062   0.972326
 0.001574  0.758897  34.191279

COMB DB-G3-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -1.177904  -42.710460  -0.678907
-0.000370   -0.380206  -63.190138
 0.14086  -1.177904  -42.710460  -0.678907
-0.000370   -0.095433   -51.013077
 0.28172  -1.177904  -42.710460  -0.678907
-0.000370   -0.270337   -39.723245
 0.42257  -1.177904  -42.710460  -0.678907
-0.000370   -0.677660   -30.976626
 0.56343  -1.177904  -42.710460  -0.678907
-0.000370   -1.085249   -24.570074

COMB DB-G3-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  11.627223  14.224521   1.105834
 0.001482  0.622086  64.307894
 0.14086  11.627223  14.224521   1.105834
 0.001482  0.158360  88.261127
 0.28172  11.627223  14.224521   1.105834
 0.001482  0.203264  115.208892
 0.42257  11.627223  14.224521   1.105834
 0.001482  0.508857  146.040311
 0.56343  11.627223  14.224521   1.105834
 0.001482  0.815599  178.066331

COMB DB-G3-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -1.164184  -95.678581  -0.731364
-0.000518   -0.411565   -57.012324
 0.14086  -1.164184  -95.678581  -0.731364
-0.000518   -0.104723   -47.110922
 0.28172  -1.164184  -95.678581  -0.731364
-0.000518   -0.306795   -37.752459
 0.42257  -1.164184  -95.678581  -0.731364
-0.000518   -0.769848   -30.203321
 0.56343  -1.164184  -95.678581  -0.731364
-0.000518   -1.233289   -24.869029

COMB DB-G3-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  10.492942  94.671386   1.145538
 0.004404  0.655862  126.993809
 0.14086  10.492942  94.671386   1.145538
 0.004404  0.175982  115.094948
 0.28172  10.492942  94.671386   1.145538
 0.004404  0.224273  118.400409
 0.42257  10.492942  94.671386   1.145538
 0.004404  0.548507  135.410225
 0.56343  10.492942  94.671386   1.145538
 0.004404  0.885129  162.174753
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2183

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   -7.818145  -84.719611  -0.803054
-0.004125   -0.463311   -50.259980
 0.14086   -7.818145  -84.719611  -0.803054
-0.004125   -0.126631   -40.549535
 0.28172   -7.818145  -84.719611  -0.803054
-0.004125   -0.317612   -47.233667
 0.42257   -7.818145  -84.719611  -0.803054
-0.004125   -0.789958   -60.858174
 0.56343   -7.818145  -84.719611  -0.803054
-0.004125   -1.266236   -87.057325

COMB DL-G1-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   0.410983  69.699035   0.686245
 4.30E-06  0.383510   3.038642
 0.14086   0.410983  69.699035   0.686245
 4.30E-06  0.095752   3.273435
 0.28172   0.410983  69.699035   0.686245
 4.30E-06  0.144744   4.392258
 0.42257   0.410983  69.699035   0.686245
 4.30E-06  0.368249   8.740070
 0.56343   0.410983  69.699035   0.686245
 4.30E-06  0.589142  13.488288

COMB DL-G1-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   -9.721390  -12.034949  -0.526817
-0.001012   -0.294328   -34.170443
 0.14086   -9.721390  -12.034949  -0.526817
-0.001012   -0.073108   -59.717512
 0.28172   -9.721390  -12.034949  -0.526817
-0.001012   -0.192245   -85.675058
 0.42257   -9.721390  -12.034949  -0.526817
-0.001012   -0.480042  -114.095447
 0.56343   -9.721390  -12.034949  -0.526817
-0.001012   -0.767866  -142.977719

COMB DL-G1-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   2.295750  161.442553   0.985450
 0.006189  0.580842  130.098101
 0.14086   2.295750  161.442553   0.985450
 0.006189  0.168304  104.056171
 0.28172   2.295750  161.442553   0.985450
 0.006189  0.202829   79.782839
 0.42257   2.295750  161.442553   0.985450
 0.006189  0.489371   75.761543
 0.56343   2.295750  161.442553   0.985450
 0.006189  0.800415   85.954016

COMB DL-G1-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -15.879489  -33.514924  -0.742574
-0.007586   -0.443726   -24.370270
 0.14086  -15.879489  -33.514924  -0.742574
-0.007586   -0.133340   -55.268705
 0.28172  -15.879489  -33.514924  -0.742574
-0.007586   -0.272164   -87.289240
 0.42257  -15.879489  -33.514924  -0.742574
-0.007586   -0.686581  -124.577143
 0.56343  -15.879489  -33.514924  -0.742574
-0.007586   -1.073854  -189.017679

COMB DL-G1-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   5.984501  133.577143   1.292984
 0.004543  0.743635  134.038100
 0.14086   5.984501  133.577143   1.292984
 0.004543  0.202766  135.480556
 0.28172   5.984501  133.577143   1.292984
 0.004543  0.257767  138.761966
 0.42257   5.984501  133.577143   1.292984
 0.004543  0.633513  156.961367
 0.56343   5.984501  133.577143   1.292984
 0.004543  1.026411  185.402877
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2184

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -13.747194  -74.827287  -0.938054
-0.005737   -0.546722   -22.694743
 0.14086  -13.747194  -74.827287  -0.938054
-0.005737   -0.153505   -51.733035
 0.28172  -13.747194  -74.827287  -0.938054
-0.005737   -0.358067   -81.707387
 0.42257  -13.747194  -74.827287  -0.938054
-0.005737   -0.887193  -116.112987
 0.56343  -13.747194  -74.827287  -0.938054
-0.005737   -1.424245  -169.468594

COMB DL-G1-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   7.634065  115.849619   1.551384
 0.004214  0.884531  115.431573
 0.14086   7.634065  115.849619   1.551384
 0.004214  0.234781  115.040716
 0.28172   7.634065  115.849619   1.551384
 0.004214  0.317077  118.556169
 0.42257   7.634065  115.849619   1.551384
 0.004214  0.783843  136.256567
 0.56343   7.634065  115.849619   1.551384
 0.004214  1.264881  164.555836

COMB DL-G1-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -12.007798  -80.546623  -1.147638
-0.004807   -0.660482   -43.676778
 0.14086  -12.007798  -80.546623  -1.147638
-0.004807   -0.178927   -61.132404
 0.28172  -12.007798  -80.546623  -1.147638
-0.004807   -0.430442   -80.563956
 0.42257  -12.007798  -80.546623  -1.147638
-0.004807   -1.070480  -105.238334
 0.56343  -12.007798  -80.546623  -1.147638
-0.004807   -1.716701  -147.350965

COMB DL-G2-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   3.712696  54.040163   0.319779
 0.004336  0.200767  131.757596
 0.14086   3.712696  54.040163   0.319779
 0.004336  0.066650  127.209165
 0.28172   3.712696  54.040163   0.319779
 0.004336  0.053834  122.820178
 0.42257   3.712696  54.040163   0.319779
 0.004336  0.123259  130.614263
 0.56343   3.712696  54.040163   0.319779
 0.004336  0.210269  148.030364

COMB DL-G2-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -3.510007  -47.954105  -0.207679
-0.004495   -0.138081   -2.671487
 0.14086  -3.510007  -47.954105  -0.207679
-0.004495   -0.051480   -1.752991
 0.28172  -3.510007  -47.954105  -0.207679
-0.004495   -0.086101   -1.145632
 0.42257  -3.510007  -47.954105  -0.207679
-0.004495   -0.207721   -2.722820
 0.56343  -3.510007  -47.954105  -0.207679
-0.004495   -0.337396   -22.669960

COMB DL-G2-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   7.484329  53.422482   0.850580
 0.004502  0.495904  140.066042
 0.14086   7.484329  53.422482   0.850580
 0.004502  0.140283  146.740532
 0.28172   7.484329  53.422482   0.850580
 0.004502  0.160144  156.891986
 0.42257   7.484329  53.422482   0.850580
 0.004502  0.389836  179.438646
 0.56343   7.484329  53.422482   0.850580
 0.004502  0.636846  211.408039
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2185

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -3.940253  -82.828112  -0.588928
-0.004495   -0.352027   -12.365630
 0.14086  -3.940253  -82.828112  -0.588928
-0.004495   -0.155515   -8.602482
 0.28172  -3.940253  -82.828112  -0.588928
-0.004495   -0.233343   -6.800301
 0.42257  -3.940253  -82.828112  -0.588928
-0.004495   -0.577803   -7.771141
 0.56343  -3.940253  -82.828112  -0.588928
-0.004495   -0.929376   -27.067240

COMB DL-G2-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   7.290425  107.390891   1.221734
 0.003138  0.695133  136.314539
 0.14086   7.290425  107.390891   1.221734
 0.003138  0.183800  126.682800
 0.28172   7.290425  107.390891   1.221734
 0.003138  0.241372  139.454899
 0.42257   7.290425  107.390891   1.221734
 0.003138  0.597028  164.518701
 0.56343   7.290425  107.390891   1.221734
 0.003138  0.963662  196.500634

COMB DL-G2-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -10.028907  -82.145232  -0.874080
-0.003796   -0.501978   -17.209266
 0.14086  -10.028907  -82.145232  -0.874080
-0.003796   -0.136680   -16.885850
 0.28172  -10.028907  -82.145232  -0.874080
-0.003796   -0.339255   -41.684002
 0.42257  -10.028907  -82.145232  -0.874080
-0.003796   -0.694367   -71.640472
 0.56343  -10.028907  -82.145232  -0.874080
-0.003796   -1.352574  -113.763702

COMB DL-G2-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   8.898538  95.786883   1.532639
 0.003089  0.867011  120.043412
 0.14086   8.898538  95.786883   1.532639
 0.003089  0.224613  109.413417
 0.28172   8.898538  95.786883   1.532639
 0.003089  0.314927  117.095520
 0.42257   8.898538  95.786883   1.532639
 0.003089  0.781163  136.964011
 0.56343   8.898538  95.786883   1.532639
 0.003089  1.256635  163.480901

COMB DL-G2-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -8.651821  -83.525534  -1.133693
-0.003170   -0.644572   -46.261951
 0.14086  -8.651821  -83.525534  -1.133693
-0.003170   -0.169945   -39.953875
 0.28172  -8.651821  -83.525534  -1.133693
-0.003170   -0.426244   -54.218418
 0.42257  -8.651821  -83.525534  -1.133693
-0.003170   -1.062628   -74.084615
 0.56343  -8.651821  -83.525534  -1.133693
-0.003170   -1.702457  -104.969137

COMB DL-G3-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
 0.00000   4.649085  10.521676   0.806999
 0.000742  0.451052  11.638398
 0.14086   4.649085  10.521676   0.806999
 0.000742  0.112191   7.569295
 0.28172   4.649085  10.521676   0.806999
 0.000742  0.180089   3.819994
 0.42257   4.649085  10.521676   0.806999
 0.000742  0.449535   2.871205
 0.56343   4.649085  10.521676   0.806999
 0.000742  0.719068   3.234885
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2186

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
 0.00000  -0.307819  -21.190012  -0.642026
-1.17E-05   -0.357787   -53.282509
 0.14086  -0.307819  -21.190012  -0.642026
-1.17E-05   -0.088557   -44.798276
 0.28172  -0.307819  -21.190012  -0.642026
-1.17E-05   -0.225385   -36.421782
 0.42257  -0.307819  -21.190012  -0.642026
```

```
-1.17E-05   -0.564068  -30.146257
0.56343     -0.307819  -21.190012     -0.642026
-1.17E-05   -0.902757  -25.047946

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     7.934638   15.973396    1.333996
 0.001377    0.746521   18.524846
0.14086     7.934638   15.973396    1.333996
 0.001377    0.186465   16.151523
0.28172     7.934638   15.973396    1.333996
 0.001377    0.290103   19.033325
0.42257     7.934638   15.973396    1.333996
 0.001377    0.725352   26.917558
0.56343     7.934638   15.973396    1.333996
 0.001377    1.161217   36.747111

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -1.271581  -48.223915   -1.037699
-0.000287   -0.580584   -71.722658
0.14086    -1.271581  -48.223915   -1.037699
-0.000287   -0.145188   -56.742112
0.28172    -1.271581  -48.223915   -1.037699
-0.000287   -0.371729   -44.672999
0.42257    -1.271581  -48.223915   -1.037699
-0.000287   -0.931741   -36.328238
0.56343    -1.271581  -48.223915   -1.037699
-0.000287   -1.491398   -30.970021

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     10.961498   13.648170    1.493270
 0.000979    0.835053   74.589055
0.14086     10.961498   13.648170    1.493270
 0.000979    0.208529   95.486657
0.28172     10.961498   13.648170    1.493270
 0.000979    0.309064   119.939899
0.42257     10.961498   13.648170    1.493270
 0.000979    0.774428   148.393416
0.56343     10.961498   13.648170    1.493270
 0.000979    1.240380   178.279351

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.995035   -94.226011   -1.109343
-7.57E-05   -0.621388   -64.435324
0.14086    -0.995035   -94.226011   -1.109343
-7.57E-05   -0.156057   -52.151317
0.28172    -0.995035   -94.226011   -1.109343
-7.57E-05   -0.415528   -41.660722
0.42257    -0.995035   -94.226011   -1.109343
-7.57E-05   -1.042453   -34.330074
0.56343    -0.995035   -94.226011   -1.109343
-7.57E-05   -1.668740   -28.969232

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     10.073358   85.079651    1.557207
 0.003345    0.882044   133.230691
0.14086     10.073358   85.079651    1.557207
 0.003345    0.229128   121.854653
0.28172     10.073358   85.079651    1.557207
 0.003345    0.322088   124.611670
0.42257     10.073358   85.079651    1.557207
 0.003345    0.798834   142.083514
0.56343     10.073358   85.079651    1.557207
 0.003345    1.285974   167.433227
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11~S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2187

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -6.700443   -85.324624   -1.160238
-0.003165   -0.661107   -57.401548
0.14086    -6.700443   -85.324624   -1.160238
-0.003165   -0.174722   -45.312643
0.28172    -6.700443   -85.324624   -1.160238
-0.003165   -0.433000   -47.830644
0.42257    -6.700443   -85.324624   -1.160238
-0.003165   -0.977939   -59.717781
0.56343    -6.700443   -85.324624   -1.160238
-0.003165   -1.729757   -84.261000

COMB      DB ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     11.627223   168.149476    1.169071
 0.006149    0.669672   135.741379
0.14086     11.627223   168.149476    1.169071
 0.006149    0.179939   141.710771
0.28172     11.627223   168.149476    1.169071
 0.006149    0.241325   151.362473
0.42257     11.627223   168.149476    1.169071
 0.006149    0.586624   175.330491
0.56343     11.627223   168.149476    1.169071
 0.006149    0.944776   210.345114

COMB      DB ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -16.911157   -95.678581   -0.854302
-0.007649   -0.489542   -63.190138
0.14086    -16.911157   -95.678581   -0.854302
-0.007649   -0.131434   -56.443475
0.28172    -16.911157   -95.678581   -0.854302
-0.007649   -0.323974   -87.809005
0.42257    -16.911157   -95.678581   -0.854302
-0.007649   -0.805936   -128.522942
0.56343    -16.911157   -95.678581   -0.854302
-0.007649   -1.291931   -190.658011

COMB      DL ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     10.961498   161.442553    1.557207
 0.006189    0.884531   140.066042
0.14086     10.961498   161.442553    1.557207
 0.006189    0.234781   146.740532
0.28172     10.961498   161.442553    1.557207
 0.006189    0.322088   156.891986
0.42257     10.961498   161.442553    1.557207
 0.006189    0.798834   179.403646
0.56343     10.961498   161.442553    1.557207
 0.006189    1.285974   211.408039

COMB      DL ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -15.879489   -94.226011   -1.160238
-0.007586   -0.661107   -71.722658
0.14086    -15.879489   -94.226011   -1.160238
-0.007586   -0.178927   -61.132404
0.28172    -15.879489   -94.226011   -1.160238
-0.007586   -0.433000   -87.289240
0.42257    -15.879489   -94.226011   -1.160238
-0.007586   -1.079398   -124.881785
0.56343    -15.879489   -94.226011   -1.160238
-0.007586   -1.729757   -189.017679

COMB      CAR ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     11.627223   168.149476    1.557207
 0.006189    0.884531   140.066042
0.14086     11.627223   168.149476    1.557207
 0.006189    0.234781   146.740532
0.28172     11.627223   168.149476    1.557207
 0.006189    0.322088   156.891986
0.42257     11.627223   168.149476    1.557207
 0.006189    0.798834   179.403646
0.56343     11.627223   168.149476    1.557207
 0.006189    1.285974   211.408039
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11~S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2188

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -16.911157   -95.678581   -1.160238
-0.007649   -0.661107   -71.722658
0.14086    -16.911157   -95.678581   -1.160238
-0.007649   -0.178927   -61.132404
0.28172    -16.911157   -95.678581   -1.160238
-0.007649   -0.433000   -87.809005
0.42257    -16.911157   -95.678581   -1.160238
-0.007649   -1.079398   -128.522942
0.56343    -16.911157   -95.678581   -1.160238
-0.007649   -1.729757   -190.658011

COMB      DESIGN ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     11.627223   168.149476    1.557207
 0.006189    0.884531   140.066042
0.14086     11.627223   168.149476    1.557207
 0.006189    0.234781   146.740532
0.28172     11.627223   168.149476    1.557207
 0.006189    0.322088   156.891986
0.42257     11.627223   168.149476    1.557207
 0.006189    0.798834   179.403646
0.56343     11.627223   168.149476    1.557207
 0.006189    1.285974   211.408039

COMB      DESIGN ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -16.911157   -95.678581   -1.160238
-0.007649   -0.661107   -71.722658
0.14086    -16.911157   -95.678581   -1.160238
-0.007649   -0.178927   -61.132404
0.28172    -16.911157   -95.678581   -1.160238
-0.007649   -0.433000   -87.809005
0.42257    -16.911157   -95.678581   -1.160238
-0.007649   -1.079398   -128.522942
0.56343    -16.911157   -95.678581   -1.160238
-0.007649   -1.729757   -190.658011

ELEM     194 ================== LENGTH
=     2.978081

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     1.915322   58.893119    0.532477
 1.60E-05    0.588902   77.426342
0.57739     1.915322   58.893119    0.532477
 1.60E-05    0.365525   52.769043
0.71826     1.915322   58.893119    0.532477
 1.60E-05    0.142143   28.171484
0.85913     1.915322   58.893119    0.532477
 1.60E-05    0.060187   4.076670
1.00000     1.915322   58.893119    0.532477
 1.60E-05    0.225919   2.635567

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -7.342407   -17.735291   -0.395055
-0.001426   -0.437019   -35.902639
0.57739    -7.342407   -17.735291   -0.395055
-0.001426   -0.271291   -28.561986
0.71826    -7.342407   -17.735291   -0.395055
-0.001426   -0.105575   -21.526362
0.85913    -7.342407   -17.735291   -0.395055
-0.001426   -0.061258   -14.490405
1.00000    -7.342407   -17.735291   -0.395055
-0.001426   -0.304661   -22.852439

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     5.663598   87.500433    0.755307
 0.006282    0.814658   160.653478
0.57739     5.663598   87.500433    0.755307
 0.006282    0.505267   125.931795
0.71826     5.663598   87.500433    0.755307
 0.006282    0.202213   104.433279
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11~S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2189

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.85913     5.663598   87.500433    0.755307
 0.006282    0.114763   101.779645
1.00000     5.663598   87.500433    0.755307
 0.006282    0.348210   114.745694

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -12.046980  -103.076499   -0.558363
-0.007887   -0.589511   -72.369106
0.57739    -12.046980  -103.076499   -0.558363
-0.007887   -0.360930   -40.755463
0.71826    -12.046980  -103.076499   -0.558363
-0.007887   -0.143362   -28.329434
0.85913    -12.046980  -103.076499   -0.558363
-0.007887   -0.137168   -19.819714
1.00000    -12.046980  -103.076499   -0.558363
-0.007887   -0.452834   -13.075603

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     8.512663   83.649427    1.031441
 0.004822    1.135835   156.310570
0.57739     8.512663   83.649427    1.031441
 0.004822    0.708295   124.861734
0.71826     8.512663   83.649427    1.031441
 0.004822    0.285187   103.082947
0.85913     8.512663   83.649427    1.031441
 0.004822    0.128797   95.573934
1.00000     8.512663   83.649427    1.031441
 0.004822    0.433459   108.543769

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -10.596087  -124.829756   -0.727313
-0.005680   -0.787533   -114.650499
0.57739    -10.596087  -124.829756   -0.727313
-0.005680   -0.486271   -70.315434
0.71826    -10.596087  -124.829756   -0.727313
-0.005680   -0.192510   -37.776220
0.85913    -10.596087  -124.829756   -0.727313
-0.005680   -0.163808   -18.318412
1.00000    -10.596087  -124.829756   -0.727313
-0.005680   -0.595263   -13.621031

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     10.002299   76.683711    1.279202
 0.004464    1.417464   144.856199
0.57739     10.002299   76.683711    1.279202
 0.004464    0.885109   115.723720
0.71826     10.002299   76.683711    1.279202
 0.004464    0.356450   94.651962
0.85913     10.002299   76.683711    1.279202
 0.004464    0.151582   85.491472
1.00000     10.002299   76.683711    1.279202
 0.004464    0.532421   93.523127

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -9.426314  -115.266148   -0.908648
-0.004718   -0.992773   -132.639487
0.57739    -9.426314  -115.266148   -0.908648
-0.004718   -0.614782   -91.252826
0.71826    -9.426314  -115.266148   -0.908648
-0.004718   -0.242996   -60.060523
0.85913    -9.426314  -115.266148   -0.908648
-0.004718   -0.193788   -40.252786
1.00000    -9.426314  -115.266148   -0.908648
-0.004718   -0.729402   -32.389350

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     4.616266   9.667772    0.283264
0.005488    0.299608   46.069206
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11~S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2190

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.57739     4.616266   9.667772    0.283264
0.005488    0.187079   44.658946
0.71826     4.616266   9.667772    0.283264
0.005488    0.079892   54.869786
0.85913     4.616266   9.667772    0.283264
0.005488    0.050755   82.630939
1.00000     4.616266   9.667772    0.283264
0.005488    0.124593   120.888229

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -3.075904  -100.699269   -0.177657
-0.005379   -0.174126   -52.872861
0.57739    -3.075904  -100.699269   -0.177657
-0.005379   -0.104341   -20.316682
0.71826    -3.075904  -100.699269   -0.177657
-0.005379   -0.043786   -4.333085
0.85913    -3.075904  -100.699269   -0.177657
-0.005379   -0.058266   -2.828924
1.00000    -3.075904  -100.699269   -0.177657
-0.005379   -0.175880   -2.659564

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     9.133427   16.137191    0.737665
 0.005709    0.813080   55.181546
0.57739     9.133427   16.137191    0.737665
 0.005709    0.509539   52.486717
0.71826     9.133427   16.137191    0.737665
 0.005709    0.211093   60.867436
0.85913     9.133427   16.137191    0.737665
 0.005709    0.092024   85.558556
1.00000     9.133427   16.137191    0.737665
 0.005709    0.293620   122.857067

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -2.707660  -129.187588   -0.481846
-0.004905   -0.515520   -106.435485
0.57739    -2.707660  -129.187588   -0.481846
-0.004905   -0.317790   -61.530938
0.71826    -2.707660  -129.187588   -0.481846
-0.004905   -0.128616   -30.573255
0.85913    -2.707660  -129.187588   -0.481846
-0.004905   -0.117078   -14.276968
1.00000    -2.707660  -129.187588   -0.481846
-0.004905   -0.425053   -14.264378

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     8.942139   79.827234    0.987630
 0.004220    1.093500   175.568930
0.57739     8.942139   79.827234    0.987630
 0.004220    0.683391   145.547333
0.71826     8.942139   79.827234    0.987630
 0.004220    0.276879   123.562463
0.85913     8.942139   79.827234    0.987630
 0.004220    0.122592   113.885837
1.00000     8.942139   79.827234    0.987630
 0.004220    0.419506   116.051230

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -9.198142  -117.901395   -0.708654
-0.004352   -0.770063   -116.645543
0.57739    -9.198142  -117.901395   -0.708654
-0.004352   -0.475895   -73.949258
0.71826    -9.198142  -117.901395   -0.708654
-0.004352   -0.187782   -41.313440
0.85913    -9.198142  -117.901395   -0.708654
-0.004352   -0.150854   -22.938475
1.00000    -9.198142  -117.901395   -0.708654
-0.004352   -0.564065   -18.359810
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11~S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2191

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     9.727685   74.137487    1.264447
 0.003989    1.406032   164.051619
0.57739     9.727685   74.137487    1.264447
 0.003989    0.879102   135.856628
0.71826     9.727685   74.137487    1.264447
 0.003989    0.355195   114.396423
0.85913     9.727685   74.137487    1.264447
 0.003989    0.150915   103.197097
1.00000     9.727685   74.137487    1.264447
 0.003989    0.535682   101.772823

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -8.390147  -105.984474   -0.917791
-0.003641   -1.004763   -132.061134
0.57739    -8.390147  -105.984474   -0.917791
-0.003641   -0.622353   -93.410710
0.71826    -8.390147  -105.984474   -0.917791
-0.003641   -0.245005   -63.152659
0.85913    -8.390147  -105.984474   -0.917791
-0.003641   -0.186487   -44.612031
1.00000    -8.390147  -105.984474   -0.917791
-0.003641   -0.716021   -37.966085

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     3.008335   12.171660    0.684376
 0.000706    0.767252   29.942910
0.57739     3.008335   12.171660    0.684376
 0.000706    0.480150   24.863246
0.71826     3.008335   12.171660    0.684376
 0.000706    0.193057   19.816579
0.85913     3.008335   12.171660    0.684376
 0.000706    0.077528   14.860597
1.00000     3.008335   12.171660    0.684376
 0.000706    0.294039   10.009953

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -1.229996  -10.328147   -0.516059
-7.04E-06   -0.571952   -51.975436
0.57739    -1.229996  -10.328147   -0.516059
-7.04E-06   -0.355466   -47.800668
0.71826    -1.229996  -10.328147   -0.516059
-7.04E-06   -0.138993   -43.709644
0.85913    -1.229996  -10.328147   -0.516059
-7.04E-06   -0.094136   -39.672132
1.00000    -1.229996  -10.328147   -0.516059
-7.04E-06   -0.381190   -35.667260

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     7.095508   19.634625    1.136579
 0.001448    1.274911   43.605518
0.57739     7.095508   19.634625    1.136579
 0.001448    0.798329   35.611757
0.71826     7.095508   19.634625    1.136579
 0.001448    0.322035   28.591278
0.85913     7.095508   19.634625    1.136579
 0.001448    0.124108   22.430195
1.00000     7.095508   19.634625    1.136579
 0.001448    0.473694   16.836102

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -1.898337  -31.961405   -0.833308
-0.000203   -0.924713   -98.388247
0.57739    -1.898337  -31.961405   -0.833308
-0.000203   -0.575305   -85.951863
0.71826    -1.898337  -31.961405   -0.833308
-0.000203   -0.226240   -74.799294
0.85913    -1.898337  -31.961405   -0.833308
-0.000203   -0.156069   -64.139260
1.00000    -1.898337  -31.961405   -0.833308
-0.000203   -0.632417   -53.941196
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11~S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2192

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     9.471119   21.173702    1.298281
 0.001849    1.458515   59.369312
0.57739     9.471119   21.173702    1.298281
 0.001849    0.914355   53.230110
0.71826     9.471119   21.173702    1.298281
 0.001849    0.370683   48.675755
0.85913     9.471119   21.173702    1.298281
 0.001849    0.136356   47.615770
1.00000     9.471119   21.173702    1.298281
 0.001849    0.520538   58.551003

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -2.188933  -83.949306   -0.915677
-0.000323   -1.016103   -136.463659
0.57739    -2.188933  -83.949306   -0.915677
-0.000323   -0.632242   -102.432590
0.71826    -2.188933  -83.949306   -0.915677
-0.000323   -0.248931   -70.037970
0.85913    -2.188933  -83.949306   -0.915677
-0.000323   -0.137630   -52.338775
1.00000    -2.188933  -83.949306   -0.915677
-0.000323   -0.720347   -48.434160

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     9.919031   63.121042    1.292865
 0.004640    1.437753   153.548179
0.57739     9.919031   63.121042    1.292865
 0.004640    0.899519   130.140231
0.71826     9.919031   63.121042    1.292865
 0.004640    0.364852   114.654172
0.85913     9.919031   63.121042    1.292865
 0.004640    0.157423   110.755074
1.00000     9.919031   63.121042    1.292865
 0.004640    0.553192   116.457255

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -7.143066  -108.798143   -0.944264
-0.003830   -1.031757   -135.142412
0.57739    -7.143066  -108.798143   -0.944264
-0.003830   -0.638711   -96.212018
0.71826    -7.143066  -108.798143   -0.944264
-0.003830   -0.251656   -67.148567
0.85913    -7.143066  -108.798143   -0.944264
-0.003830   -0.190731   -49.636563
1.00000    -7.143066  -108.798143   -0.944264
-0.003830   -0.732013   -43.826214

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43652     3.241550   54.782512    0.664708
 1.16E-05    0.735988   70.540911
0.57739     3.241550   54.782512    0.664708
 1.16E-05    0.457172   47.950025
0.71826     3.241550   54.782512    0.664708
 1.16E-05    0.178379   25.697301
0.85913     3.241550   54.782512    0.664708
 1.16E-05    0.059876   5.097012
1.00000     3.241550   54.782512    0.664708
 1.16E-05    0.230510   3.015490

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43652    -6.300602  -22.133726   -0.407343
-0.001431   -0.452879   -49.201941
0.57739    -6.300602  -22.133726   -0.407343
-0.001431   -0.282080   -40.327270
0.71826    -6.300602  -22.133726   -0.407343
-0.001431   -0.111829   -31.835718
0.85913    -6.300602  -22.133726   -0.407343
-0.001431   -0.101087   -24.675034
1.00000    -6.300602  -22.133726   -0.407343
-0.001431   -0.379488   -34.091946
Program    SAP2000    Nonlinear    Version    7.42
          File:하행S11~S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2193
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	6.891117	80.776006	0.961809
0.006265	1.042122	151.851483	
0.57739	6.891117	80.776006	0.961809
0.006265	0.886515	121.642943	
0.71826	6.891117	80.776006	0.961809
0.006265	0.259757	105.036479	
0.85913	6.891117	80.776006	0.961809
0.006265	0.125516	106.000464	
1.00000	6.891117	80.776006	0.961809
0.006265	0.385511	120.808497	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-10.874534	-104.962710	-0.622804
-0.007828	-0.659001	-91.636700	
0.57739	-10.874534	-104.962710	-0.622804
-0.007828	-0.401021	-52.308816	
0.71826	-10.874534	-104.962710	-0.622804
-0.007828	-0.161901	-38.224297	
0.85913	-10.874534	-104.962710	-0.622804
-0.007828	-0.169689	-27.916566	
1.00000	-10.874534	-104.962710	-0.622804
-0.007828	-0.571812	-26.287785	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	9.088377	78.139380	1.401706
0.004908	1.545206	149.578616	
0.57739	9.088377	78.139380	1.401706
0.004908	0.963149	120.783042	
0.71826	9.088377	78.139380	1.401706
0.004908	0.386517	102.154723	
0.85913	9.088377	78.139380	1.401706
0.004908	0.159370	101.362401	
1.00000	9.088377	78.139380	1.401706
0.004908	0.547608	119.668192	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-9.722881	-121.862932	-0.930491
-0.005829	-1.011818	-121.565088	
0.57739	-9.722881	-121.862932	-0.930491
-0.005829	-0.623808	-74.324833	
0.71826	-9.722881	-121.862932	-0.930491
-0.005829	-0.249782	-45.198296	
0.85913	-9.722881	-121.862932	-0.930491
-0.005829	-0.218900	-25.802184	
1.00000	-9.722881	-121.862932	-0.930491
-0.005829	-0.806472	-25.438333	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	10.548239	73.533846	1.745724
0.004538	1.933367	142.239204	
0.57739	10.548239	73.533846	1.745724
0.004538	1.206055	114.759018	
0.71826	10.548239	73.533846	1.745724
0.004538	0.482590	95.767854	
0.85913	10.548239	73.533846	1.745724
0.004538	0.196440	91.763352	
1.00000	10.548239	73.533846	1.745724
0.004538	0.705369	103.637548	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-8.737480	-113.448671	-1.217964
-0.004843	-1.335604	-140.611744	
0.57739	-8.737480	-113.448671	-1.217964
-0.004843	-0.826629	-96.392831	
0.71826	-8.737480	-113.448671	-1.217964
-0.004843	-0.329590	-67.430876	
0.85913	-8.737480	-113.448671	-1.217964
-0.004843	-0.263405	-47.225403	
1.00000	-8.737480	-113.448671	-1.217964
-0.004843	-0.995707	-42.782233	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2194

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	3.905361	10.149791	0.378513
0.004599	0.407626	48.803281	
0.57739	3.905361	10.149791	0.378513
0.004599	0.254544	48.373707	
0.71826	3.905361	10.149791	0.378513
0.004599	0.107276	58.973573	
0.85913	3.905361	10.149791	0.378513
0.004599	0.062829	86.147539	
1.00000	3.905361	10.149791	0.378513
0.004599	0.174770	118.760571	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-3.265287	-88.072411	-0.269072
-0.004503	-0.275968	-51.971482	
0.57739	-3.265287	-88.072411	-0.269072
-0.004503	-0.165548	-19.150887	
0.71826	-3.265287	-88.072411	-0.269072
-0.004503	-0.068078	-5.130082	
0.85913	-3.265287	-88.072411	-0.269072
-0.004503	-0.069169	-3.398598	
1.00000	-3.265287	-88.072411	-0.269072
-0.004503	-0.226812	-2.996886	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	8.221481	18.078466	1.054115
0.004923	1.164944	61.265861	
0.57739	8.221481	18.078466	1.054115
0.004923	0.728639	57.737414	
0.71826	8.221481	18.078466	1.054115
0.004923	0.296516	64.000768	
0.85913	8.221481	18.078466	1.054115
0.004923	0.128204	89.017020	
1.00000	8.221481	18.078466	1.054115
0.004923	0.438523	124.006249	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-2.928674	-113.830713	-0.743444
-0.004185	-0.806971	-98.513320	
0.57739	-2.928674	-113.830713	-0.743444
-0.004185	-0.497751	-54.532983	
0.71826	-2.928674	-113.830713	-0.743444
-0.004185	-0.201178	-27.954935	
0.85913	-2.928674	-113.830713	-0.743444
-0.004185	-0.161323	-14.488168	
1.00000	-2.928674	-113.830713	-0.743444
-0.004185	-0.602557	-13.738459	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	8.325651	76.805467	1.375359
0.003402	1.527046	174.995951	
0.57739	8.325651	76.805467	1.375359
0.003402	0.953993	146.174871	
0.71826	8.325651	76.805467	1.375359
0.003402	0.383415	124.129602	
0.85913	8.325651	76.805467	1.375359
0.003402	0.153669	116.639616	
1.00000	8.325651	76.805467	1.375359
0.003402	0.552388	118.318883	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-8.831577	-106.072939	-0.952846
-0.003592	-1.044119	-113.869437	
0.57739	-8.831577	-106.072939	-0.952846
-0.003592	-0.646414	-72.342885	
0.71826	-8.831577	-106.072939	-0.952846
-0.003592	-0.256949	-42.532978	
0.85913	-8.831577	-106.072939	-0.952846
-0.003592	-0.203478	-25.138251	
1.00000	-8.831577	-106.072939	-0.952846
-0.003592	-0.779759	-19.250310	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2195

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	9.119737	73.558674	1.761556
0.003316	1.960588	168.262755	
0.57739	9.119737	73.558674	1.761556
0.003316	1.224921	140.300002	
0.71826	9.119737	73.558674	1.761556
0.003316	0.490765	118.067633	
0.85913	9.119737	73.558674	1.761556
0.003316	0.201067	107.947743	
1.00000	9.119737	73.558674	1.761556
0.003316	0.742193	105.583716	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-8.283884	-97.546972	-1.292235
-0.003011	-1.422808	-134.559175	
0.57739	-8.283884	-97.546972	-1.292235
-0.003011	-0.882602	-96.265165	
0.71826	-8.283884	-97.546972	-1.292235
-0.003011	-0.349200	-67.820887	
0.85913	-8.283884	-97.546972	-1.292235
-0.003011	-0.255473	-49.544165	
1.00000	-8.283884	-97.546972	-1.292235
-0.003011	-0.994566	-41.214155	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	2.856934	15.389053	0.952315
0.000716	1.065263	38.228881	
0.57739	2.856934	15.389053	0.952315
0.000716	0.665902	31.923380	
0.71826	2.856934	15.389053	0.952315
0.000716	0.266480	25.710148	
0.85913	2.856934	15.389053	0.952315
0.000716	0.117720	19.545390	
1.00000	2.856934	15.389053	0.952315
0.000716	0.451543	13.455849	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-2.017132	-12.490715	-0.796170
-4.11E-06	-0.881956	-60.257676	
0.57739	-2.017132	-12.490715	-0.796170
-4.11E-06	-0.548384	-55.273647	
0.71826	-2.017132	-12.490715	-0.796170
-4.11E-06	-0.214666	-50.405209	
0.85913	-2.017132	-12.490715	-0.796170
-4.11E-06	-0.132323	-45.576958	
1.00000	-2.017132	-12.490715	-0.796170
-4.11E-06	-0.532829	-40.842205	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	7.195406	24.505938	1.604470
0.001382	1.763875	55.470695	
0.57739	7.195406	24.505938	1.604470
0.001382	1.121183	45.601471	
0.71826	7.195406	24.505938	1.604470
0.001382	0.447938	36.327118	
0.85913	7.195406	24.505938	1.604470
0.001382	0.185529	27.667181	
1.00000	7.195406	24.505938	1.604470
0.001382	0.717965	19.845844	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-2.602816	-33.693274	-1.270665
-0.000130	-1.410920	-107.368458	
0.57739	-2.602816	-33.693274	-1.270665
-0.000130	-0.878339	-93.881900	
0.71826	-2.602816	-33.693274	-1.270665
-0.000130	-0.345923	-81.383506	
0.85913	-2.602816	-33.693274	-1.270665
-0.000130	-0.224371	-70.003607	
1.00000	-2.602816	-33.693274	-1.270665
-0.000130	-0.898414	-59.581671	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2196

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	8.549575	25.485645	1.833749
0.001457	2.055216	69.914401	
0.57739	8.549575	25.485645	1.833749
0.001457	1.286024	61.410231	
0.71826	8.549575	25.485645	1.833749
0.001457	0.516029	54.428253	
0.85913	8.549575	25.485645	1.833749
0.001457	0.204780	55.488938	
1.00000	8.549575	25.485645	1.833749
0.001457	0.795810	65.456439	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-3.060297	-76.228515	-1.411401
-5.48E-06	-1.568052	-133.984102	
0.57739	-3.060297	-76.228515	-1.411401
-5.48E-06	-0.976484	-103.331666	
0.71826	-3.060297	-76.228515	-1.411401
-5.48E-06	-0.385107	-74.116422	
0.85913	-3.060297	-76.228515	-1.411401
-5.48E-06	-0.250997	-58.468104	
1.00000	-3.060297	-76.228515	-1.411401
-5.48E-06	-1.020916	-53.303237	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	8.977298	64.953049	1.816003
0.003657	2.022960	164.142573	
0.57739	8.977298	64.953049	1.816003
0.003657	1.264382	139.887035	
0.71826	8.977298	64.953049	1.816003
0.003657	0.508537	121.911216	
0.85913	8.977298	64.953049	1.816003
0.003657	0.216288	116.785718	
1.00000	8.977298	64.953049	1.816003
0.003657	0.794933	119.104466	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-7.762427	-97.481624	-1.382752
-0.002872	-1.521406	-137.868447	
0.57739	-7.762427	-97.481624	-1.382752
-0.002872	-0.943137	-99.752085	
0.71826	-7.762427	-97.481624	-1.382752
-0.002872	-0.372281	-72.398392	
0.85913	-7.762427	-97.481624	-1.382752
-0.002872	-0.261847	-56.040916	
1.00000	-7.762427	-97.481624	-1.382752
-0.002872	-1.023744	-48.603717	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	10.002299	87.500433	1.298281
0.006282	1.458515	175.568930	
0.57739	10.002299	87.500433	1.298281
0.006282	0.914482	145.547333	
0.71826	10.002299	87.500433	1.298281
0.006282	0.370683	123.562463	
0.85913	10.002299	87.500433	1.298281
0.006282	0.157423	113.885837	
1.00000	10.002299	87.500433	1.298281
0.006282	0.553192	122.857067	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-12.046980	-129.187588	-0.944264
-0.007887	-1.031757	-136.463659	
0.57739	-12.046980	-129.187588	-0.944264
-0.007887	-0.638711	-102.432590	
0.71826	-12.046980	-129.187588	-0.944264
-0.007887	-0.251656	-74.799294	
0.85913	-12.046980	-129.187588	-0.944264
-0.007887	-0.193768	-64.139260	
1.00000	-12.046980	-129.187588	-0.944264
-0.007887	-0.732013	-53.941196	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2197

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	10.548239	80.776006	1.833749
0.006265	2.055216	174.995951	
0.57739	10.548239	80.776006	1.833749
0.006265	1.286024	146.174871	
0.71826	10.548239	80.776006	1.833749
0.006265	0.516029	124.129602	
0.85913	10.548239	80.776006	1.833749
0.006265	0.216288	116.785718	
1.00000	10.548239	80.776006	1.833749
0.006265	0.795810	124.006249	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-10.874534	-121.862932	-1.411401
-0.007828	-1.568052	-140.611744	
0.57739	-10.874534	-121.862932	-1.411401
-0.007828	-0.976484	-103.331666	
0.71826	-10.874534	-121.862932	-1.411401
-0.007828	-0.385107	-81.383506	
0.85913	-10.874534	-121.862932	-1.411401
-0.007828	-0.263405	-70.003607	
1.00000	-10.874534	-121.862932	-1.411401
-0.007828	-1.023744	-59.581671	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	10.548239	87.500433	1.833749
0.006282	2.055216	175.568930	
0.57739	10.548239	87.500433	1.833749
0.006282	1.286024	146.174871	
0.71826	10.548239	87.500433	1.833749
0.006282	0.516029	124.129602	
0.85913	10.548239	87.500433	1.833749
0.006282	0.216288	116.785718	
1.00000	10.548239	87.500433	1.833749
0.006282	0.795810	124.006249	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-12.046980	-129.187588	-1.411401
-0.007887	-1.568052	-140.611744	
0.57739	-12.046980	-129.187588	-1.411401
-0.007887	-0.976484	-103.331666	
0.71826	-12.046980	-129.187588	-1.411401
-0.007887	-0.385107	-81.383506	
0.85913	-12.046980	-129.187588	-1.411401
-0.007887	-0.263405	-70.003607	
1.00000	-12.046980	-129.187588	-1.411401
-0.007887	-1.023744	-59.581671	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43652	10.548239	87.500433	1.833749
0.006282	2.055216	175.568930	
0.57739	10.548239	87.500433	1.833749
0.006282	1.286024	146.174871	
0.71826	10.548239	87.500433	1.833749
0.006282	0.516029	124.129602	
0.85913	10.548239	87.500433	1.833749
0.006282	0.216288	116.785718	
1.00000	10.548239	87.500433	1.833749
0.006282	0.795810	124.006249	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43652	-12.046980	-129.187588	-1.411401
-0.007887	-1.568052	-140.611744	
0.57739	-12.046980	-129.187588	-1.411401
-0.007887	-0.976484	-103.331666	
0.71826	-12.046980	-129.187588	-1.411401
-0.007887	-0.385107	-81.383506	
0.85913	-12.046980	-129.187588	-1.411401
-0.007887	-0.263405	-70.003607	
1.00000	-12.046980	-129.187588	-1.411401
-0.007887	-1.023744	-59.581671	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2198

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 195 ========== LENGTH = 2.977144

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.913576	58.671606	0.473853
7.33E-06	0.260515	2.632204	
0.14083	1.913576	58.671606	0.473853
7.33E-06	0.061829	3.047217	
0.28167	1.913576	58.671606	0.473853
7.33E-06	0.106392	9.599131	
0.42250	1.913576	58.671606	0.473853
7.33E-06	0.261090	16.811127	
0.56334	1.913576	58.671606	0.473853
7.33E-06	0.415809	24.170257	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.320953	-17.768181	-0.369006
-0.001341	-0.203153	-22.872523	
0.14083	-7.320953	-17.768181	-0.369006
-0.001341	-0.048856	-46.926016	
0.28167	-7.320953	-17.768181	-0.369006
-0.001341	-0.136857	-71.457993	
0.42250	-7.320953	-17.768181	-0.369006
-0.001341	-0.335531	-95.999701	
0.56334	-7.320953	-17.768181	-0.369006
-0.001341	-0.534207	-120.567581	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.780021	152.845771	0.715306
0.006092	0.422948	115.108413	
0.14083	2.780021	152.845771	0.715306
0.006092	0.123986	91.440314	
0.28167	2.780021	152.845771	0.715306
0.006092	0.137303	73.709198	
0.42250	2.780021	152.845771	0.715306
0.006092	0.335732	76.154676	
0.56334	2.780021	152.845771	0.715306
0.006092	0.534179	91.059299	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.427763	-41.122690	-0.473429
-0.007988	-0.286615	-13.090636	
0.14083	-15.427763	-41.122690	-0.473429
-0.007988	-0.088656	-44.538551	
0.28167	-15.427763	-41.122690	-0.473429
-0.007988	-0.200363	-76.786703	
0.42250	-15.427763	-41.122690	-0.473429
-0.007988	-0.482017	-113.431653	
0.56334	-15.427763	-41.122690	-0.473429
-0.007988	-0.777338	-171.130441	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.614983	127.940555	1.037207
0.004272	0.597140	108.772842	
0.14083	6.614983	127.940555	1.037207
0.004272	0.162849	113.308505	
0.28167	6.614983	127.940555	1.037207
0.004272	0.187066	123.770593	
0.42250	6.614983	127.940555	1.037207
0.004272	0.462267	148.277804	
0.56334	6.614983	127.940555	1.037207
0.004272	0.737476	181.311701	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.887007	-83.000521	-0.656431
-0.005754	-0.381756	-13.632305	
0.14083	-12.887007	-83.000521	-0.656431
-0.005754	-0.107034	-45.127124	
0.28167	-12.887007	-83.000521	-0.656431
-0.005754	-0.288572	-77.200252	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2199

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42250	-12.887007	-83.000521	-0.656431
-0.005754	-0.711035	-112.220815	
0.56334	-12.887007	-83.000521	-0.656431
-0.005754	-1.142788	-161.550472	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.443739	113.404464	1.302729
0.004158	0.743393	93.718591	
0.14083	8.443739	113.404464	1.302729
0.004158	0.197647	95.161792	
0.28167	8.443739	113.404464	1.302729
0.004158	0.239161	105.171887	
0.42250	8.443739	113.404464	1.302729
0.004158	0.593461	127.598139	
0.56334	8.443739	113.404464	1.302729
0.004158	0.947733	157.276360	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.325414	-80.661545	-0.845024
-0.004780	-0.484672	-32.405687	
0.14083	-11.325414	-80.661545	-0.845024
-0.004780	-0.130773	-54.840956	
0.28167	-11.325414	-80.661545	-0.845024
-0.004780	-0.362265	-77.860553	
0.42250	-11.325414	-80.661545	-0.845024
-0.004780	-0.898172	-104.314293	
0.56334	-11.325414	-80.661545	-0.845024
-0.004780	-1.441789	-144.325704	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.243365	64.670760	0.320357
0.005094	0.203775	121.185038	
0.14083	2.243365	64.670760	0.320357
0.005094	0.070273	113.130964	
0.28167	2.243365	64.670760	0.320357
0.005094	0.037502	105.209679	
0.42250	2.243365	64.670760	0.320357
0.005094	0.093347	113.498452	
0.56334	2.243365	64.670760	0.320357
0.005094	0.149204	132.135152	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.935667	-48.999516	-0.133328
-0.005307	-0.096843	-2.648077	
0.14083	-5.935667	-48.999516	-0.133328
-0.005307	-0.041191	-2.753895	
0.28167	-5.935667	-48.999516	-0.133328
-0.005307	-0.084567	-3.344774	
0.42250	-5.935667	-48.999516	-0.133328
-0.005307	-0.203544	-7.556507	
0.56334	-5.935667	-48.999516	-0.133328
-0.005307	-0.334039	-29.315318	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.969555	67.280944	0.814637
0.005030	0.480565	123.125799	
0.14083	6.969555	67.280944	0.814637
0.005030	0.139810	125.847207	

0.28167 6.969555 67.280944 0.814637
0.005030 0.124685 132.370777
0.42250 6.969555 67.280944 0.814637
0.005030 0.313611 154.593439
0.56334 6.969555 67.280944 0.814637
0.005030 0.502499 186.577375

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.363171 -81.346866 -0.450610
-0.004940 -0.274169 -14.254757

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14083 -5.363171 -81.346866 -0.450610
-0.004940 -0.085595 -13.861797
0.28167 -5.363171 -81.346866 -0.450610
-0.004940 -0.220824 -14.038616
0.42250 -5.363171 -81.346866 -0.450610
-0.004940 -0.548155 -19.247943
0.56334 -5.363171 -81.346866 -0.450610
-0.004940 -0.886136 -42.414529

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.427791 115.546430 1.031148
0.003618 0.592663 116.216690
0.14083 7.427791 115.546430 1.031148
0.003618 0.160908 108.922056
0.28167 7.427791 115.546430 1.031148
0.003618 0.179672 121.995890
0.42250 7.427791 115.546430 1.031148
0.003618 0.444455 148.090608
0.56334 7.427791 115.546430 1.031148
0.003618 0.707263 181.475019

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.047893 -84.248728 -0.629356
-0.004590 -0.363089 -18.341938
0.14083 -11.047893 -84.248728 -0.629356
-0.004590 -0.099424 -21.679042
0.28167 -11.047893 -84.248728 -0.629356
-0.004590 -0.284934 -49.588773
0.42250 -11.047893 -84.248728 -0.629356
-0.004590 -0.707180 -81.402928
0.56334 -11.047893 -84.248728 -0.629356
-0.004590 -1.137016 -126.248017

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.474928 104.037188 1.319778
0.003648 0.752016 101.917429
0.14083 8.474928 104.037188 1.319778
0.003648 0.199160 92.652236
0.28167 8.474928 104.037188 1.319778
0.003648 0.237612 102.100843
0.42250 8.474928 104.037188 1.319778
0.003648 0.588024 123.615074
0.56334 8.474928 104.037188 1.319778
0.003648 0.938459 151.195786

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.938960 -77.753607 -0.835936
-0.003840 -0.475930 -37.957161
0.14083 -9.938960 -77.753607 -0.835936
-0.003840 -0.125659 -37.931734
0.28167 -9.938960 -77.753607 -0.835936
-0.003840 -0.365523 -58.423063
0.42250 -9.938960 -77.753607 -0.835936
-0.003840 -0.910427 -81.918181
0.56334 -9.938960 -77.753607 -0.835936
-0.003840 -1.461689 -116.103782

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.029169 12.206074 0.717435
0.001003 0.108361 10.010681
0.14083 3.029169 12.206074 0.717435
0.001003 0.101393 5.671713
0.28167 3.029169 12.206074 0.717435
0.001003 0.136946 2.669970
0.42250 3.029169 12.206074 0.717435
0.001003 0.339457 2.228389
0.56334 3.029169 12.206074 0.717435
0.001003 0.541967 2.756293

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.230835 -10.241781 -0.483021
-1.18E-05 -0.268166 -35.676229
0.14083 -1.230835 -10.241781 -0.483021
-1.18E-05 -0.065547 -31.813928
0.28167 -1.230835 -10.241781 -0.483021
-1.18E-05 -0.199483 -28.204516
0.42250 -1.230835 -10.241781 -0.483021
-1.18E-05 -0.500271 -24.656616
0.56334 -1.230835 -10.241781 -0.483021
-1.18E-05 -0.801075 -21.222199

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.048745 21.676634 1.197193
0.001854 0.672519 16.860197
0.14083 7.048745 21.676634 1.197193
0.001854 0.417098 12.201485
0.28167 7.048745 21.676634 1.197193
0.001854 0.225827 12.900327
0.42250 7.048745 21.676634 1.197193
0.001854 0.563061 19.348637
0.56334 7.048745 21.676634 1.197193
0.001854 0.900246 26.797942

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.002825 -30.229067 -0.804203
-0.000249 -0.449389 -53.958614
0.14083 -2.002825 -30.229067 -0.804203
-0.000249 -0.112150 -46.483536
0.28167 -2.002825 -30.229067 -0.804203
-0.000249 -0.332167 -40.057738
0.42250 -2.002825 -30.229067 -0.804203
-0.000249 -0.633545 -35.915011
0.56334 -2.002925 -30.229067 -0.804203
-0.000249 -1.335363 -34.553279

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.435717 24.414951 1.393102
0.001582 0.784805 58.559400
0.14083 9.435717 24.414951 1.393102
0.001582 0.200832 77.179233
0.28167 9.435717 24.414951 1.393102
0.001582 0.245403 100.417141
0.42250 9.435717 24.414951 1.393102
0.001582 0.612434 128.531226
0.56334 9.435717 24.414951 1.393102
0.001582 0.979409 157.687983

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.357287 -81.299716 -0.875251
-0.000325 -0.489955 -48.440020
0.14083 -2.357287 -81.299716 -0.875251
-0.000325 -0.122985 -44.622162
0.28167 -2.357287 -81.299716 -0.875251
-0.000325 -0.384611 -41.013567
0.42250 -2.357287 -81.299716 -0.875251
-0.000325 -0.967784 -39.090243
0.56334 -2.357287 -81.299716 -0.875251
-0.000325 -1.551657 -39.669961

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.428307 98.596794 1.370599
0.004375 0.784070 116.639368
0.14083 8.428307 98.596794 1.370599
0.004375 0.209980 103.148497
0.28167 8.428307 98.596794 1.370599
0.004375 0.242785 104.717198
0.42250 8.428307 98.596794 1.370599
0.004375 0.601244 122.535708
0.56334 8.428307 98.596794 1.370599
0.004375 0.959659 148.778442

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.981676 -75.338314 -0.854902
-0.004065 -0.488796 -43.821110
0.14083 -8.981676 -75.338314 -0.854902
-0.004065 -0.130681 -38.252028
0.28167 -8.981676 -75.338314 -0.854902
-0.004065 -0.378158 -49.189125
0.42250 -8.981676 -75.338314 -0.854902
-0.004065 -0.942848 -66.634604
0.56334 -8.981676 -75.338314 -0.854902
-0.004065 -1.515003 -96.699148

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.233956 54.705681 0.587127
4.33E-06 0.322619 3.010497
0.14083 3.233956 54.705681 0.587127
4.33E-06 0.076435 3.307404
0.28167 3.233956 54.705681 0.587127
4.33E-06 0.116173 10.015486
0.42250 3.233956 54.705681 0.587127
4.33E-06 0.290876 18.950426
0.56334 3.233956 54.705681 0.587127
4.33E-06 0.466536 27.973273

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.285069 -22.218506 -0.417993
-0.001375 -0.235082 -34.098742
0.14083 -6.285069 -22.218506 -0.417993
-0.001375 -0.055891 -50.198406
0.28167 -6.285069 -22.218506 -0.417993
-0.001375 -0.169815 -70.594406
0.42250 -6.285069 -22.218506 -0.417993
-0.001375 -0.415944 -93.266434
0.56334 -6.285069 -22.218506 -0.417993
-0.001375 -0.662128 -116.004906

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.791717 143.590305 0.924507
0.006090 0.545616 100.853949 0.924507
0.14083 3.791717 143.590305 0.924507
0.006090 0.158732 95.980426
0.28167 3.791717 143.590305 0.924507
0.006090 0.159980 77.970954
0.42250 3.791717 143.590305 0.924507
0.006090 0.386899 81.057028
0.56334 3.791717 143.590305 0.924507
0.006090 0.622787 97.041810

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.772758 -44.928644 -0.582070
-0.008066 -0.356311 -26.274081
0.14083 -14.772758 -44.928644 -0.582070
-0.008066 -0.111534 -47.014387
0.28167 -14.772758 -44.928644 -0.582070
-0.008066 -0.256973 -72.917164
0.42250 -14.772758 -44.928644 -0.582070
-0.008066 -0.623852 -106.243966
0.56334 -14.772758 -44.928644 -0.582070
-0.008066 -1.006005 -163.889165

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.940940 122.596159 1.392454
0.004467 0.799541 119.684709
0.14083 6.940940 122.596159 1.392454
0.004467 0.215696 119.327923
0.28167 6.940940 122.596159 1.392454
0.004467 0.247981 125.423763
0.42250 6.940940 122.596159 1.392454
0.004467 0.612863 146.996497
0.56334 6.940940 122.596159 1.392454
0.004467 0.984451 177.903310

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.497554 -79.428923 -0.899917
-0.006008 -0.525983 -25.423883
0.14083 -12.497554 -79.428923 -0.899917
-0.006008 -0.149148 -47.189373
0.28167 -12.497554 -79.428923 -0.899917
-0.006008 -0.386296 -73.508013
0.42250 -12.497554 -79.428923 -0.899917
-0.006008 -0.955766 -105.521361
0.56334 -12.497554 -79.428923 -0.899917
-0.006008 -1.535933 -154.777806

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.779763 110.395424 1.739628
0.004278 0.989677 103.660139
0.14083 8.779763 110.395424 1.739628
0.004278 0.259902 100.527902
0.28167 8.779763 110.395424 1.739628
0.004278 0.329432 106.246838
0.42250 8.779763 110.395424 1.739628
0.004278 0.819262 126.273586
0.56334 8.779763 110.395424 1.739628
0.004278 1.314649 154.175852

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.047434 -78.266098 -1.192634
-0.004992 -0.686558 -42.778385
0.14083 -11.047434 -78.266098 -1.192634
-0.004992 -0.186712 -57.134872
0.28167 -11.047434 -78.266098 -1.192634
-0.004992 -0.483547 -77.319986
0.42250 -11.047434 -78.266098 -1.192634
-0.004992 -1.201521 -103.369505
0.56334 -11.047434 -78.266098 -1.192634
-0.004992 -1.927982 -143.925615

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.780287 54.345225 0.437083
0.004267 0.270799 118.783016
0.14083 1.780287 54.345225 0.437083
0.004267 0.287952 113.861686
0.28167 1.780287 54.345225 0.437083
0.004267 0.061664 109.243147
0.42250 1.780287 54.345225 0.437083
0.004267 0.145286 117.590890
0.56334 1.780287 54.345225 0.437083
0.004267 0.235046 134.933852

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.021233 -46.247221 -0.228127
-0.004536 -0.148333 -5.974921
0.14083 -6.021233 -46.247221 -0.228127
-0.004536 -0.053122 -2.732127
0.28167 -6.021233 -46.247221 -0.228127
-0.004536 -0.114360 -2.964433
0.42250 -6.021233 -46.247221 -0.228127
-0.004536 -0.283274 -6.806889
0.56334 -6.021233 -46.247221 -0.228127
-0.004536 -0.462663 -27.673389

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.225695 60.157475 1.121988
0.004327 0.652782 124.024794
0.14083 6.225695 60.157475 1.121988
0.004327 0.182156 127.227296
0.28167 6.225695 60.157475 1.121988
0.004327 0.197730 133.757584
0.42250 6.225695 60.157475 1.121988
0.004327 0.488264 153.629438
0.56334 6.225695 60.157475 1.121988
0.004327 0.785249 182.284158

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.571217 -73.906477 -0.722339
-0.004328 -0.425855 -13.716295
0.14083 -5.571217 -73.906477 -0.722339
-0.004328 -0.125386 -13.624069
0.28167 -5.571217 -73.906477 -0.722339
-0.004328 -0.304668 -15.232390
0.42250 -5.571217 -73.906477 -0.722339
-0.004328 -0.761884 -20.876805
0.56334 -5.571217 -73.906477 -0.722339
-0.004328 -1.228895 -43.010313

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.043905 103.676881 1.402936
0.002878 0.799226 118.302466
0.14083 7.043905 103.676881 1.402936
0.002878 0.210603 109.992258
0.28167 7.043905 103.676881 1.402936
0.002878 0.250818 123.809313
0.42250 7.043905 103.676881 1.402936
0.002878 0.621162 149.387733
0.56334 7.043905 103.676881 1.402936
0.002878 0.995790 181.025301

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.521337 -80.352067 -0.902404
-0.003899 -0.516324 -19.220726
0.14083 -10.521337 -80.352067 -0.902404
-0.003899 -0.138787 -20.400118
0.28167 -10.521337 -80.352067 -0.902404
-0.003899 -0.387668 -45.259287
0.42250 -10.521337 -80.352067 -0.902404
-0.003899 -0.983451 -75.149482
0.56334 -10.521337 -80.352067 -0.902404
-0.003899 -1.553600 -116.072670

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.061524 96.093639 1.794188
0.003030 1.015561 105.579434
0.14083 8.061524 96.093639 1.794188
0.003030 0.262622 94.765921
0.28167 8.061524 96.093639 1.794188
0.003030 0.343087 103.879746
0.42250 8.061524 96.093639 1.794188
0.003030 0.853711 125.157616
0.56334 8.061524 96.093639 1.794188
0.003030 1.367180 151.476517

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.714229 -75.905682 -1.232386
-0.003267 -0.697779 -41.197101
0.14083 -9.714229 -75.905682 -1.232386
-0.003267 -0.182884 -38.789689
0.28167 -9.714229 -75.905682 -1.232386
-0.003267 -0.497208 -57.158284
0.42250 -9.714229 -75.905682 -1.232386
-0.003267 -1.242965 -81.618960
0.56334 -9.714229 -75.905682 -1.232386
-0.003267 -1.993541 -115.288825

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.882129 15.378387 0.977890
0.001006 0.547274 13.469156
0.14083 2.882129 15.378387 0.977890
0.001006 0.136803 7.722953
0.28167 2.882129 15.378387 0.977890
0.001006 0.212115 3.276620
0.42250 2.882129 15.378387 0.977890
0.001006 0.527466 3.241740
0.56334 2.882129 15.378387 0.977890
0.001006 0.842718 4.167759

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.037002 -12.411104 -0.751988
-9.18E-06 -0.417187 -40.855576
0.14083 -2.037002 -12.411104 -0.751988
-9.18E-06 -0.101972 -36.278681
0.28167 -2.037002 -12.411104 -0.751988
-9.18E-06 -0.272715 -32.405144
0.42250 -2.037002 -12.411104 -0.751988
-9.18E-06 -0.682769 -32.411941
0.56334 -2.037002 -12.411104 -0.751988
-9.18E-06 -1.092799 -32.926445

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.172422 25.713633 1.631247
0.001730 0.912832 19.867473
0.14083 7.172422 25.713633 1.631247
0.001730 0.228076 13.513151
0.28167 7.172422 25.713633 1.631247
0.001730 0.346189 13.497301
0.42250 7.172422 25.713633 1.631247
0.001730 0.866227 20.133148
0.56334 7.172422 25.713633 1.631247
0.001730 1.386180 28.120535

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.707467 -32.510147 -1.240699
-0.000174 -0.693072 -59.603824
0.14083 -2.707467 -32.510147 -1.240699
-0.000174 -0.173215 -51.216658
0.28167 -2.707467 -32.510147 -1.240699
-0.000174 -0.454702 -46.722113
0.42250 -2.707467 -32.510147 -1.240699
-0.000174 -1.138647 -47.478456
0.56334 -2.707467 -32.510147 -1.240699
-0.000174 -1.822698 -49.555900

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.653303 25.356922 1.901709
0.001278 1.066313 65.453377
0.14083 8.653303 25.356922 1.901709
0.001278 0.267752 81.215612
0.28167 8.653303 25.356922 1.901709
0.001278 0.381503 101.581008
0.42250 8.653303 25.356922 1.901709
0.001278 0.954288 127.449695
0.56334 8.653303 25.356922 1.901709
0.001278 1.527436 154.209668

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.095836 -76.588949 -1.367504
-7.59E-06 -0.763097 -53.309591
0.14083 -3.095836 -76.588949 -1.367504
-7.59E-06 -0.190284 -48.634972
0.28167 -3.095836 -76.588949 -1.367504
-7.59E-06 -0.526795 -46.238856
0.42250 -3.095836 -76.588949 -1.367504
-7.59E-06 -1.324818 -48.321721
0.56334 -3.095836 -76.588949 -1.367504
-7.59E-06 -2.122556 -51.075100

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.831377 89.428055 1.878104
0.003468 1.065377 119.110315
0.14083 7.831377 89.428055 1.878104
0.003468 0.277290 106.278998
0.28167 7.831377 89.428055 1.878104
0.003468 0.364528 108.714555
0.42250 7.831377 89.428055 1.878104
0.003468 0.903725 127.058132
0.56334 7.831377 89.428055 1.878104
0.003468 1.446601 152.144117

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.321883 -73.994802 -1.303286
-0.003167 -0.737080 -48.593800
0.14083 -9.321883 -73.994802 -1.303286
-0.003167 -0.191429 -41.927583
0.28167 -9.321883 -73.994802 -1.303286
-0.003167 -0.519331 -51.064840
0.42250 -9.321883 -73.994802 -1.303286
-0.003167 -1.299108 -70.203853
0.56334 -9.321883 -73.994802 -1.303286
-0.003167 -2.084567 -99.883196

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.435717 152.845771 1.393102
0.006092 0.784805 123.125799
0.14083 9.435717 152.845771 1.393102
0.006092 0.209980 125.847207
0.28167 9.435717 152.845771 1.393102
0.006092 0.245403 132.370777
0.42250 9.435717 152.845771 1.393102
0.006092 0.612434 154.593439
0.56334 9.435717 152.845771 1.393102
0.006092 0.979409 186.577375

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.427763 -84.248728 -0.875251
-0.007988 -0.489955 -53.958614
0.14083 -15.427763 -84.248728 -0.875251
-0.007988 -0.130773 -54.840956
0.28167 -15.427763 -84.248728 -0.875251
-0.007988 -0.384611 -77.860553
0.42250 -15.427763 -84.248728 -0.875251
-0.007988 -0.967784 -113.431653
0.56334 -15.427763 -84.248728 -0.875251
-0.007988 -1.551657 -171.130441

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.779763 143.590305 1.901709
0.006090 1.066313 124.024794
0.14083 8.779763 143.590305 1.901709
0.006090 0.277280 127.227296
0.28167 8.779763 143.590305 1.901709
0.006090 0.381503 133.757584
0.42250 8.779763 143.590305 1.901709
0.006090 0.954288 153.629438
0.56334 8.779763 143.590305 1.901709
0.006090 1.527436 182.284158

```
COMB       DL ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -14.772758  -80.352067   -1.367504
-0.008066   -0.763097  -59.603824
0.14083  -14.772758  -80.352067   -1.367504
-0.008066   -0.191429  -57.134872
0.28167  -14.772758  -80.352067   -1.367504
-0.008066   -0.526795  -77.319986
0.42250  -14.772758  -80.352067   -1.367504
-0.008066   -1.324818 -106.243966
0.56334  -14.772758  -80.352067   -1.367504
-0.008066   -2.122556 -163.889165

COMB       CAR ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000    9.435717  152.845771    1.901709
 0.006092    1.066313  124.024794
0.14083    9.435717  152.845771    1.901709
 0.006092    0.277280  127.227296
0.28167    9.435717  152.845771    1.901709
 0.006092    0.381503  133.757584
0.42250    9.435717  152.845771    1.901709
 0.006092    0.954288  154.593439
0.56334    9.435717  152.845771    1.901709
 0.006092    1.527436  186.577375
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                LOAD                >
                                        2207

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       CAR ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -15.427763  -84.248728   -1.367504
-0.008066   -0.763097  -59.603824
0.14083  -15.427763  -84.248728   -1.367504
-0.008066   -0.191429  -57.134872
0.28167  -15.427763  -84.248728   -1.367504
-0.008066   -0.526795  -77.860553
0.42250  -15.427763  -84.248728   -1.367504
-0.008066   -1.324818 -113.431653
0.56334  -15.427763  -84.248728   -1.367504
-0.008066   -2.122556 -171.130441

COMB    DESIGN ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000    9.435717  152.845771    1.901709
 0.006092    1.066313  124.024794
0.14083    9.435717  152.845771    1.901709
 0.006092    0.277280  127.227296
0.28167    9.435717  152.845771    1.901709
 0.006092    0.381503  133.757584
0.42250    9.435717  152.845771    1.901709
 0.006092    0.954288  154.593439
0.56334    9.435717  152.845771    1.901709
 0.006092    1.527436  186.577375

COMB    DESIGN ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000  -15.427763  -84.248728   -1.367504
-0.008066   -0.763097  -59.603824
0.14083  -15.427763  -84.248728   -1.367504
-0.008066   -0.191429  -57.134872
0.28167  -15.427763  -84.248728   -1.367504
-0.008066   -0.526795  -77.860553
0.42250  -15.427763  -84.248728   -1.367504
-0.008066   -1.324818 -113.431653
0.56334  -15.427763  -84.248728   -1.367504
-0.008066   -2.122556 -171.130441

ELEM      196 ================ LENGTH
=     2.977474

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    7.682464   37.190157    0.504569
 1.69E-05    0.552807   44.049176
0.57746    7.682464   37.190157    0.504569
 1.69E-05    0.341212   28.522887
0.71831    7.682464   37.190157    0.504569
 1.69E-05    0.129619   13.130189
0.85915    7.682464   37.190157    0.504569
 1.69E-05   -0.082074   -2.687327
1.00000    7.682464   37.190157    0.504569
 1.69E-05    0.148196    2.373643

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661   -1.529944  -31.204231   -0.266879
-0.001542   -0.299533  -59.590900
0.57746   -1.529944  -31.204231   -0.266879
-0.001542   -0.187605  -46.591822
0.71831   -1.529944  -31.204231   -0.266879
-0.001542   -0.075711  -33.699666
0.85915   -1.529944  -31.204231   -0.266879
-0.001542   -0.082092  -21.384395
1.00000   -1.529944  -31.204231   -0.266879
-0.001542   -0.293613  -19.964978

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    7.616679   63.933266    0.698386
 0.005813    0.761316  114.923457
0.57746    7.616679   63.933266    0.698386
 0.005813    0.473041   89.600660
0.71831    7.616679   63.933266    0.698386
 0.005813    0.185248   75.916850
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                LOAD                >
                                        2208

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
          T          M2          M3
0.85915    7.616679   63.933266    0.698386
 0.005813    0.106474   82.472999
1.00000    7.616679   63.933266    0.698386
 0.005813    0.306105  102.774251

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -16.981367 -115.500632   -0.478739
-0.007736   -0.497420 -104.103172
0.57746  -16.981367 -115.500632   -0.478739
-0.007736   -0.298996  -61.541265
0.71831  -16.981367 -115.500632   -0.478739
-0.007736   -0.111791  -41.511722
0.85915  -16.981367 -115.500632   -0.478739
-0.007736   -0.129388  -26.320823
1.00000  -16.981367 -115.500632   -0.478739
-0.007736   -0.421511  -12.383363

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    9.121129   71.377383    1.020864
 0.004552    1.132267  119.292308
0.57746    9.121129   71.377383    1.020864
 0.004552    0.707352   95.047607
0.71831    9.121129   71.377383    1.020864
 0.004552    0.282955   78.723800
0.85915    9.121129   71.377383    1.020864
 0.004552    0.127331   77.020412
1.00000    9.121129   71.377383    1.020864
 0.004552    0.423638   90.156477

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -13.785785 -123.781225   -0.708103
-0.005622   -0.764302 -132.483733
0.57746  -13.785785 -123.781225   -0.708103
-0.005622   -0.468899  -84.866432
0.71831  -13.785785 -123.781225   -0.708103
-0.005622   -0.185291  -52.754913
0.85915  -13.785785 -123.781225   -0.708103
-0.005622   -0.161200  -23.374873
1.00000  -13.785785 -123.781225   -0.708103
-0.005622   -0.588403  -13.467644

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661   14.564816   71.701511    1.314579
 0.004294    1.463521  122.444267
0.57746   14.564816   71.701511    1.314579
 0.004294    0.914905   97.092295
0.71831   14.564816   71.701511    1.314579
 0.004294    0.366719   78.400363
0.85915   14.564816   71.701511    1.314579
 0.004294    0.157125   71.971856
1.00000   14.564816   71.701511    1.314579
 0.004294    0.552734   78.317427

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -13.110129 -106.668907   -0.944685
-0.004670   -1.032090 -130.306495
0.57746  -13.110129 -106.668907   -0.944685
-0.004670   -0.637206  -89.624355
0.71831  -13.110129 -106.668907   -0.944685
-0.004670   -0.252131  -62.089011
0.85915  -13.110129 -106.668907   -0.944685
-0.004670   -0.197976  -37.343243
1.00000  -13.110129 -106.668907   -0.944685
-0.004670   -0.748514  -29.694228

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    0.442539   13.651025    0.286013
 0.005121    0.316162   40.629976
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                LOAD                >
                                        2209

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
          T          M2          M3
0.57746    0.442539   13.651025    0.286013
 0.005121    0.200056   38.082547
0.71831    0.442539   13.651025    0.286013
 0.005121    0.084577   45.333325
0.85915    0.442539   13.651025    0.286013
 0.005121    0.070742   70.348526
1.00000    0.442539   13.651025    0.286013
 0.005121    0.180610  104.008917

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -14.165623  -93.931526   -0.264286
-0.005065   -0.262924  -57.673778
0.57746  -14.165623  -93.931526   -0.264286
-0.005065   -0.154053  -23.131182
0.71831  -14.165623  -93.931526   -0.264286
-0.005065   -0.059665   -7.964490
0.85915  -14.165623  -93.931526   -0.264286
-0.005065   -0.054007   -2.158748
1.00000  -14.165623  -93.931526   -0.264286
-0.005065   -0.173098   -1.953180

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    8.241615   30.103723    0.797146
 0.005434    0.892970   68.808282
0.57746    8.241615   30.103723    0.797146
 0.005434    0.562307   52.553062
0.71831    8.241615   30.103723    0.797146
 0.005434    0.232207   55.368727
0.85915    8.241615   30.103723    0.797146
 0.005434    0.117415   74.807919
1.00000    8.241615   30.103723    0.797146
 0.005434    0.377394  102.057764

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -11.649755 -108.863175   -0.621774
-0.004715   -0.665809  -93.278645
0.57746  -11.649755 -108.863175   -0.621774
-0.004715   -0.406835  -52.881251
0.71831  -11.649755 -108.863175   -0.621774
-0.004715   -0.161352  -30.376728
0.85915  -11.649755 -108.863175   -0.621774
-0.004715   -0.122022  -14.833747
1.00000  -11.649755 -108.863175   -0.621774
-0.004715   -0.453497  -14.613762

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661   10.516505   78.752422    0.990149
 0.004046    1.105670  152.643019
0.57746   10.516505   78.752422    0.990149
 0.004046    0.693037  125.246982
0.71831   10.516505   78.752422    0.990149
 0.004046    0.280403  104.457799
0.85915   10.516505   78.752422    0.990149
 0.004046    0.136656   95.777004
1.00000   10.516505   78.752422    0.990149
 0.004046    0.458411   94.347644

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -17.716139 -107.234447   -0.768570
-0.004231   -0.830969 -116.736742
0.57746  -17.716139 -107.234447   -0.768570
-0.004231   -0.509917  -75.742889
0.71831  -17.716139 -107.234447   -0.768570
-0.004231   -0.198408  -47.680908
0.85915  -17.716139 -107.234447   -0.768570
-0.004231   -0.147655  -23.286929
1.00000  -17.716139 -107.234447   -0.768570
-0.004231   -0.561992  -19.057492
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                LOAD                >
                                        2210

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661   11.440214   76.840059    1.303891
 0.003876    1.458247  151.290838
0.57746   11.440214   76.840059    1.303891
 0.003876    0.913607  123.809948
0.71831   11.440214   76.840059    1.303891
 0.003876    0.369513  101.844033
0.85915   11.440214   76.840059    1.303891
 0.003876    0.171255   89.980977
1.00000   11.440214   76.840059    1.303891
 0.003876    0.601881   84.025713

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -16.896954  -91.142347   -1.027912
-0.003540   -1.122508 -114.991024
0.57746  -16.896954  -91.142347   -1.027912
-0.003540   -0.692484  -80.172105
0.71831  -16.896954  -91.142347   -1.027912
-0.003540   -0.270449  -56.193299
0.85915  -16.896954  -91.142347   -1.027912
-0.003540   -0.188576  -35.035379
1.00000  -16.896954  -91.142347   -1.027912
-0.003540   -0.734601  -31.080901

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    1.294460   16.568121    0.734666
 0.000755    0.824421   38.129623
0.57746    1.294460   16.568121    0.734666
 0.000755    0.516330   31.199886
0.71831    1.294460   16.568121    0.734666
 0.000755    0.208242   24.311731
0.85915    1.294460   16.568121    0.734666
 0.000755    0.092484   17.511387
1.00000    1.294460   16.568121    0.734666
 0.000755    0.350322   10.958933

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661   -3.987223   -2.809119   -0.614825
-6.78E-06   -0.681031  -26.375929
0.57746   -3.987223   -2.809119   -0.614825
-6.78E-06   -0.423196  -25.254302
0.71831   -3.987223   -2.809119   -0.614825
-6.78E-06   -0.165382  -24.192579
0.85915   -3.987223   -2.809119   -0.614825
-6.78E-06   -0.099896  -23.157991
1.00000   -3.987223   -2.809119   -0.614825
-6.78E-06   -0.407979  -22.159048

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661   12.378980   31.844203    1.240954
 0.001541    1.392550   63.313443
0.57746   12.378980   31.844203    1.240954
 0.001541    0.872279   50.169592
0.71831   12.378980   31.844203    1.240954
 0.001541    0.352025   37.561911
0.85915   12.378980   31.844203    1.240954
 0.001541    0.145832   26.620521
1.00000   12.378980   31.844203    1.240954
 0.001541    0.559177   16.743256

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661   -5.652040  -13.351521   -0.985912
-0.000195   -1.094751  -54.383541
0.57746   -5.652040  -13.351521   -0.985912
-0.000195   -0.681396  -49.677503
0.71831   -5.652040  -13.351521   -0.985912
-0.000195   -0.268669  -46.211037
0.85915   -5.652040  -13.351521   -0.985912
-0.000195   -0.169444  -43.456281
1.00000   -5.652040  -13.351521   -0.985912
-0.000195   -0.689626  -41.379083
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                LOAD                >
                                        2211

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    8.671703   38.941089    1.413842
 0.001968    1.991613   74.788358
0.57746    8.671703   38.941089    1.413842
 0.001968    0.999020   63.561820
0.71831    8.671703   38.941089    1.413842
 0.001968    0.406655   53.433922
0.85915    8.671703   38.941089    1.413842
 0.001968    0.166999   45.786913
1.00000    8.671703   38.941089    1.413842
 0.001968    0.635909   45.584944

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661   -8.263489  -57.749343   -1.118175
-0.000310   -1.239816  -94.672563
0.57746   -8.263489  -57.749343   -1.118175
-0.000310   -0.770977  -71.574661
0.71831   -8.263489  -57.749343   -1.118175
-0.000310   -0.303025  -50.342929
0.85915   -8.263489  -57.749343   -1.118175
-0.000310   -0.168832  -31.780258
1.00000   -8.263489  -57.749343   -1.118175
-0.000310   -0.781266  -35.148994

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    8.887655   70.965539    1.345798
 0.004495    1.507636  149.394935
0.57746    8.887655   70.965539    1.345798
 0.004495    0.945804  124.339014
0.71831    8.887655   70.965539    1.345798
 0.004495    0.384426  105.733180
0.85915    8.887655   70.965539    1.345798
 0.004495    0.188296   98.861053
1.00000    8.887655   70.965539    1.345798
 0.004495    0.653436   97.948705

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -18.876004  -90.212879   -1.110914
-0.003716   -1.210227 -108.531830
0.57746  -18.876004  -90.212879   -1.110914
-0.003716   -0.745588  -74.514649
0.71831  -18.876004  -90.212879   -1.110914
-0.003716   -0.290398  -53.138881
0.85915  -18.876004  -90.212879   -1.110914
-0.003716   -0.193021  -34.596802
1.00000  -18.876004  -90.212879   -1.110914
-0.003716   -0.756505  -32.838135

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661   15.182835   33.043022    0.633373
 1.27E-05    0.693066   40.422770
0.57746   15.182835   33.043022    0.633373
 1.27E-05    0.427214   26.817489
0.71831   15.182835   33.043022    0.633373
 1.27E-05    0.161666   13.532287
0.85915   15.182835   33.043022    0.633373
 1.27E-05    0.038988    3.830325
1.00000   15.182835   33.043022    0.633373
 1.27E-05    0.161703    2.761531

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661   -2.519551  -43.163839   -0.294473
-0.001640   -0.331177  -89.443834
0.57746   -2.519551  -43.163839   -0.294473
-0.001640   -0.206960  -71.587499
0.71831   -2.519551  -43.163839   -0.294473
-0.001640   -0.083688  -53.991245
0.85915   -2.519551  -43.163839   -0.294473
-0.001640   -0.103669  -38.481811
1.00000   -2.519551  -43.163839   -0.294473
-0.001640   -0.368859  -31.719296
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                LOAD                >
                                        2212

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661   14.709487   57.081621    0.897542
 0.006091    0.976641  107.630305
0.57746   14.709487   57.081621    0.897542
 0.006091    0.604817   85.928364
0.71831   14.709487   57.081621    0.897542
 0.006091    0.239741   76.711718
0.85915   14.709487   57.081621    0.897542
 0.006091    0.120358   86.630866
1.00000   14.709487   57.081621    0.897542
 0.006091    0.356411  107.415725

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -18.937692 -125.789654   -0.568079
-0.007773   -0.595073 -138.761718
0.57746  -18.937692 -125.789654   -0.568079
-0.007773   -0.363605  -87.943677
0.71831  -18.937692 -125.789654   -0.568079
-0.007773   -0.142338  -61.158195
0.85915  -18.937692 -125.789654   -0.568079
-0.007773   -0.161279  -40.438660
1.00000  -18.937692 -125.789654   -0.568079
-0.007773   -0.536029  -25.878024

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661   15.505422   68.320905    1.416717
 0.004846    1.569158  125.716804
0.57746   15.505422   68.320905    1.416717
 0.004846    0.978202  100.670022
0.71831   15.505422   68.320905    1.416717
 0.004846    0.391380   84.823874
0.85915   15.505422   68.320905    1.416717
 0.004846    0.164571   83.460345
1.00000   15.505422   68.320905    1.416717
 0.004846    0.571708   98.496647

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -16.573286 -127.665291   -0.974467
-0.005821   -1.059844 -153.739963
0.57746  -16.573286 -127.665291   -0.974467
-0.005821   -0.655100 -101.899111
0.71831  -16.573286 -127.665291   -0.974467
-0.005821   -0.258664  -67.377047
0.85915  -16.573286 -127.665291   -0.974467
-0.005821   -0.218665  -37.107997
1.00000  -16.573286 -127.665291   -0.974467
-0.005821   -0.811788  -25.661909

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661   20.182981   73.597205    1.823699
 0.004546    2.025867  134.505265
0.57746   20.182981   73.597205    1.823699
 0.004546    1.263750  106.857425
0.71831   20.182981   73.597205    1.823699
 0.004546    0.504828   86.936601
0.85915   20.182981   73.597205    1.823699
 0.004546    0.209046   79.279335
1.00000   20.182981   73.597205    1.823699
 0.004546    0.762096   85.887814

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -16.019698 -110.315767   -1.322694
-0.004837   -1.453258 -148.606059
0.57746  -16.019698 -110.315767   -1.322694
-0.004837   -0.901372 -104.001136
0.71831  -16.019698 -110.315767   -1.322694
-0.004837   -0.356854  -73.935938
0.85915  -16.019698 -110.315767   -1.322694
-0.004837   -0.272864  -48.076799
1.00000  -16.019698 -110.315767   -1.322694
-0.004837   -1.037113  -38.720742
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                LOAD                >
                                        2213

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    0.407961   14.554245    0.391910
 0.004499    0.435502   46.734288
0.57746    0.407961   14.554245    0.391910
 0.004499    0.274766   43.431268
0.71831    0.407961   14.554245    0.391910
 0.004499    0.114017   49.486617
0.85915    0.407961   14.554245    0.391910
 0.004499    0.085346   71.722605
1.00000    0.407961   14.554245    0.391910
 0.004499    0.242776   99.461754

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43661  -16.647786  -81.428927   -0.379642
-0.004199   -0.392948   -55.071007
0.57746  -16.647786  -81.428927   -0.379642
-0.004199   -0.238950   -22.722858
0.71831  -16.647786  -81.428927   -0.379642
-0.004199   -0.091319    7.652619
0.85915  -16.647786  -81.428927   -0.379642
-0.004199   -0.063335   -2.324098
1.00000  -16.647786  -81.428927   -0.379642
-0.004199   -0.227172   -2.094021

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43661    7.931667   36.473609    1.158682
 0.004927    1.295125   80.021896
0.57746    7.931667   36.473609    1.158682
 0.004927    0.812749   68.667116
0.71831    7.931667   36.473609    1.158682
 0.004927    0.333352   66.153204
0.85915    7.931667   36.473609    1.158682
 0.004927    0.158800   77.903121
1.00000    7.931667   36.473609    1.158682
 0.004927    0.551602  100.465343
```

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-14.004056	-92.968878	-0.940491
-0.004007	-1.023733	-84.155421	
0.57746	-14.004056	-92.968878	-0.940491
-0.004007	-0.633369	-46.971254	
0.71831	-14.004056	-92.968878	-0.940491
-0.004007	-0.250280	-26.311357	
0.85915	-14.004056	-92.968878	-0.940491
-0.004007	-0.167671	-10.869964	
1.00000	-14.004056	-92.968878	-0.940491
-0.004007	-0.653364	-13.873117	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	12.104418	79.420696	1.411063
0.003438	1.576259	163.537047	
0.57746	12.104418	79.420696	1.411063
0.003438	0.986969	133.587124	
0.71831	12.104418	79.420696	1.411063
0.003438	0.398963	109.656822	
0.85915	12.104418	79.420696	1.411063
0.003438	0.173110	95.878524	
1.00000	12.104418	79.420696	1.411063
0.003438	0.621248	92.541715	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-19.552796	-99.037601	-1.072098
-0.003539	-1.174028	-119.859246	
0.57746	-19.552796	-99.037601	-1.072098
-0.003539	-0.726102	-79.811308	
0.71831	-19.552796	-99.037601	-1.072098
-0.003539	-0.284306	-50.755071	
0.85915	-19.552796	-99.037601	-1.072098
-0.003539	-0.202244	-26.417005	
1.00000	-19.552796	-99.037601	-1.072098
-0.003539	-0.793163	-19.452453	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2214

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	13.036228	81.723810	1.848400
0.003393	2.066003	167.880823	
0.57746	13.036228	81.723810	1.848400
0.003393	1.292988	136.564438	
0.71831	13.036228	81.723810	1.848400
0.003393	0.520752	110.352502	
0.85915	13.036228	81.723810	1.848400
0.003393	0.228052	92.689885	
1.00000	13.036228	81.723810	1.848400
0.003393	0.843303	84.021485	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-19.640280	-85.524411	-1.470898
-0.002966	-1.620097	-119.777724	
0.57746	-19.640280	-85.524411	-1.470898
-0.002966	-1.004154	-85.290396	
0.71831	-19.640280	-85.524411	-1.470898
-0.002966	-0.394269	-51.803493	
0.85915	-19.640280	-85.524411	-1.470898
-0.002966	-0.261469	-38.668720	
1.00000	-19.640280	-85.524411	-1.470898
-0.002966	-1.036578	-32.291516	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	2.144958	22.649004	1.030441
0.000790	1.154655	49.623390	
0.57746	2.144958	22.649004	1.030441
0.000790	0.722532	40.423638	
0.71831	2.144958	22.649004	1.030441
0.000790	0.290171	31.375653	
0.85915	2.144958	22.649004	1.030441
0.000790	0.137196	22.677380	
1.00000	2.144958	22.649004	1.030441
0.000790	0.526093	14.313708	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-7.708719	-5.468562	-0.928463
-3.96E-06	-1.029222	-30.691003	
0.57746	-7.708719	-5.468562	-0.928463
-3.96E-06	-0.639868	-28.718076	
0.71831	-7.708719	-5.468562	-0.928463
-3.96E-06	-0.250160	-26.940830	
0.85915	-7.708719	-5.468562	-0.928463
-3.96E-06	-0.140854	-25.521552	
1.00000	-7.708719	-5.468562	-0.928463
-3.96E-06	-0.573838	-24.376251	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	13.560270	43.620871	1.766711
0.001550	1.976410	84.391171	
0.57746	13.560270	43.620871	1.766711
0.001550	1.235684	66.709042	
0.71831	13.560270	43.620871	1.766711
0.001550	0.494773	49.578027	
0.85915	13.560270	43.620871	1.766711
0.001550	0.213417	33.792432	
1.00000	13.560270	43.620871	1.766711
0.001550	0.832993	19.784721	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-9.370696	-15.343337	-1.479126
-0.000124	-1.645276	-57.799485	
0.57746	-9.370696	-15.343337	-1.479126
-0.000124	-1.024844	-52.135901	
0.71831	-9.370696	-15.343337	-1.479126
-0.000124	-0.404615	-47.475803	
0.85915	-9.370696	-15.343337	-1.479126
-0.000124	-0.245667	-44.592791	
1.00000	-9.370696	-15.343337	-1.479126
-0.000124	-0.987421	-43.606736	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2215

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.409949	50.464430	2.023446
0.001633	2.273597	103.830718	
0.57746	9.409949	50.464430	2.023446
0.001633	1.424986	85.555425	
0.71831	9.409949	50.464430	2.023446
0.001633	0.575191	68.175581	
0.85915	9.409949	50.464430	2.023446
0.001633	0.245843	54.052816	
1.00000	9.409949	50.464430	2.023446
0.001633	0.958756	49.937584	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-13.431520	-49.615314	-1.702444
-5.52E-06	-1.892484	-87.864075	
0.57746	-13.431520	-49.615314	-1.702444
-5.52E-06	-1.177578	-68.123202	
0.71831	-13.431520	-49.615314	-1.702444
-5.52E-06	-0.463443	-49.226500	
0.85915	-13.431520	-49.615314	-1.702444
-5.52E-06	-0.271080	-35.119595	
1.00000	-13.431520	-49.615314	-1.702444
-5.52E-06	-1.120275	-37.237794	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.913462	78.634998	1.921469
0.003730	2.151876	171.398436	
0.57746	9.913462	78.634998	1.921469
0.003730	1.348202	141.593073	
0.71831	9.913462	78.634998	1.921469
0.003730	0.545918	117.397478	
0.85915	9.913462	78.634998	1.921469
0.003730	0.254025	102.964986	
1.00000	9.913462	78.634998	1.921469
0.003730	0.932294	97.116432	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-23.476864	-80.575323	-1.621023
-0.002814	-1.782813	-108.867599	
0.57746	-23.476864	-80.575323	-1.621023
-0.002814	-1.104974	-76.735026	
0.71831	-23.476864	-80.575323	-1.621023
-0.002814	-0.431730	-54.771741	
0.85915	-23.476864	-80.575323	-1.621023
-0.002814	-0.268156	-37.966151	
1.00000	-23.476864	-80.575323	-1.621023
-0.002814	-1.073982	-35.022265	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.564816	78.752422	1.413842
0.005813	1.591613	152.643019	
0.57746	14.564816	78.752422	1.413842
0.005813	0.999020	125.246962	
0.71831	14.564816	78.752422	1.413842
0.005813	0.406655	105.733180	
0.85915	14.564816	78.752422	1.413842
0.005813	0.188296	98.861053	
1.00000	14.564816	78.752422	1.413842
0.005813	0.653436	104.008917	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-18.876004	-123.781225	-1.118175
-0.007736	-1.239816	-132.483733	
0.57746	-18.876004	-123.781225	-1.118175
-0.007736	-0.770977	-89.624355	
0.71831	-18.876004	-123.781225	-1.118175
-0.007736	-0.303025	-62.089011	
0.85915	-18.876004	-123.781225	-1.118175
-0.007736	-0.197976	-43.456281	
1.00000	-18.876004	-123.781225	-1.118175
-0.007736	-0.781266	-41.379083	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2216

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	20.182981	81.723810	2.023446
0.006091	2.273597	171.398436	
0.57746	20.182981	81.723810	2.023446
0.006091	1.424986	141.593073	
0.71831	20.182981	81.723810	2.023446
0.006091	0.575191	117.397478	
0.85915	20.182981	81.723810	2.023446
0.006091	0.254025	102.964986	
1.00000	20.182981	81.723810	2.023446
0.006091	0.958756	107.415725	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-23.476864	-127.665291	-1.702444
-0.007773	-1.892484	-153.739963	
0.57746	-23.476864	-127.665291	-1.702444
-0.007773	-1.177578	-104.001136	
0.71831	-23.476864	-127.665291	-1.702444
-0.007773	-0.463443	-73.935938	
0.85915	-23.476864	-127.665291	-1.702444
-0.007773	-0.272864	-48.076799	
1.00000	-23.476864	-127.665291	-1.702444
-0.007773	-1.120275	-43.606736	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	20.182981	81.723810	2.023446
0.006091	2.273597	171.398436	
0.57746	20.182981	81.723810	2.023446
0.006091	1.424986	141.593073	
0.71831	20.182981	81.723810	2.023446
0.006091	0.575191	117.397478	
0.85915	20.182981	81.723810	2.023446
0.006091	0.254025	102.964986	
1.00000	20.182981	81.723810	2.023446
0.006091	0.958756	107.415725	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-23.476864	-127.665291	-1.702444
-0.007773	-1.892484	-153.739963	
0.57746	-23.476864	-127.665291	-1.702444
-0.007773	-1.177578	-104.001136	
0.71831	-23.476864	-127.665291	-1.702444
-0.007773	-0.463443	-73.935938	
0.85915	-23.476864	-127.665291	-1.702444
-0.007773	-0.272864	-48.076799	
1.00000	-23.476864	-127.665291	-1.702444
-0.007773	-1.120275	-43.606736	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	20.182981	81.723810	2.023446
0.006091	2.273597	171.398436	
0.57746	20.182981	81.723810	2.023446
0.006091	1.424986	141.593073	
0.71831	20.182981	81.723810	2.023446
0.006091	0.575191	117.397478	
0.85915	20.182981	81.723810	2.023446
0.006091	0.254025	102.964986	
1.00000	20.182981	81.723810	2.023446
0.006091	0.958756	107.415725	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-23.476864	-127.665291	-1.702444
-0.007773	-1.892484	-153.739963	
0.57746	-23.476864	-127.665291	-1.702444
-0.007773	-1.177578	-104.001136	
0.71831	-23.476864	-127.665291	-1.702444
-0.007773	-0.463443	-73.935938	
0.85915	-23.476864	-127.665291	-1.702444
-0.007773	-0.272864	-48.076799	
1.00000	-23.476864	-127.665291	-1.702444
-0.007773	-1.120275	-43.606736	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2217

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 197 ========== LENGTH = 2.977534

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.673425	36.793418	0.380296
7.17E-06	0.200810	2.369637	
0.14085	7.673425	36.793418	0.380296
7.17E-06	0.041317	6.855585	
0.28170	7.673425	36.793418	0.380296
7.17E-06	0.087435	19.409001	
0.42255	7.673425	36.793418	0.380296
7.17E-06	0.226162	32.362503	
0.56340	7.673425	36.793418	0.380296
7.17E-06	0.365099	45.335630	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.499771	-31.117418	-0.331349
-0.001412	-0.190829	-19.976599	
0.14085	-1.499771	-31.117418	-0.331349
-0.001412	-0.052873	-34.610519	
0.28170	-1.499771	-31.117418	-0.331349
-0.001412	-0.118176	-49.855023	
0.42255	-1.499771	-31.117418	-0.331349
-0.001412	-0.277652	-65.238972	
0.56340	-1.499771	-31.117418	-0.331349
-0.001412	-0.437137	-80.643281	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.193826	129.192623	0.646207
0.005884	0.382683	103.148024	
0.14085	7.193826	129.192623	0.646207
0.005884	0.113812	83.679093	
0.28170	7.193826	129.192623	0.646207
0.005884	0.115162	72.117884	
0.42255	7.193826	129.192623	0.646207
0.005884	0.289073	83.358793	
0.56340	7.193826	129.192623	0.646207
0.005884	0.463431	104.605102	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.887749	-53.535655	-0.415863
-0.007522	-0.251421	-12.356060	
0.14085	-18.887749	-53.535655	-0.415863
-0.007522	-0.085153	-33.413099	
0.28170	-18.887749	-53.535655	-0.415863
-0.007522	-0.434676	-86.918647	
0.56340	-18.887749	-53.535655	-0.415863
-0.007522	-0.703270	-138.160326	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.907637	115.676620	1.023535
0.004150	0.587712	90.401952	
0.14085	8.907637	115.676620	1.023535
0.004150	0.159982	92.296947	
0.28170	8.907637	115.676620	1.023535
0.004150	0.182068	102.635592	
0.42255	8.907637	115.676620	1.023535
0.004150	0.455495	129.277298	
0.56340	8.907637	115.676620	1.023535
0.004150	0.729273	162.781001	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.095905	-82.071731	-0.652840
-0.005453	-1.054633	-14.438148	
0.14085	-15.095905	-82.071731	-0.652840
-0.005453	-0.109109	-39.356661	
0.28170	-15.095905	-82.071731	-0.652840
-0.005453	-0.288052	-66.482219	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2218

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42255 -15.095905 -82.071731 -0.652840
-0.005453 -0.703022 -99.032334
0.56340 -15.095905 -82.071731 -0.652840
-0.005453 -1.130607 -145.548441

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.397252	108.495532	1.323898
0.004103	0.751801	78.528497	
0.14085	14.397252	108.495532	1.323898
0.004103	0.197831	77.158256	
0.28170	14.397252	108.495532	1.323898
0.004103	0.250506	86.080347	
0.42255	14.397252	108.495532	1.323898
0.004103	0.625356	108.905980	
0.56340	14.397252	108.495532	1.323898
0.004103	1.000571	137.735521	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.203776	-72.168213	-0.894711
-0.004530	-0.510135	-29.673123	
0.14085	-14.203776	-72.168213	-0.894711
-0.004530	-0.139393	-50.211511	
0.28170	-14.203776	-72.168213	-0.894711
-0.004530	-0.373041	-72.708500	
0.42255	-14.203776	-72.168213	-0.894711
-0.004530	-0.916164	-100.065696	
0.56340	-14.203776	-72.168213	-0.894711
-0.004530	-1.470191	-139.935472	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102036	68.846192	0.379383
0.004919	0.242809	104.318571	
0.14085	0.102036	68.846192	0.379383
0.004919	0.085439	93.616168	
0.28170	0.102036	68.846192	0.379383
0.004919	0.045082	83.524749	
0.42255	0.102036	68.846192	0.379383
0.004919	0.107362	92.179607	
0.56340	0.102036	68.846192	0.379383
0.004919	0.169717	109.040508	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.800388	-42.438209	-0.148660
-0.004859	-0.093635	-1.941274	
0.14085	-15.800388	-42.438209	-0.148660
-0.004859	-0.036717	-3.937440	
0.28170	-15.800388	-42.438209	-0.148660
-0.004859	-0.096539	-6.614287	
0.42255	-15.800388	-42.438209	-0.148660
-0.004859	-0.237959	-15.942691	
0.56340	-15.800388	-42.438209	-0.148660
-0.004859	-0.395048	-42.397455	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.005452	81.488392	0.919792
0.005049	0.543210	102.347757	
0.14085	8.005452	81.488392	0.919792
0.005049	0.159114	97.546149	
0.28170	8.005452	81.488392	0.919792
0.005049	0.150537	95.368940	
0.42255	8.005452	81.488392	0.919792
0.005049	0.374039	111.692132	
0.56340	8.005452	81.488392	0.919792
0.005049	0.597487	136.035324	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.195193	-61.274262	-0.532795
-0.004522	-0.309327	-14.602120	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2219

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	-13.195193	-61.274262	-0.532795
-0.004522	-0.090932	-21.138635	
0.28170	-13.195193	-61.274262	-0.532795
-0.004522	-0.247929	-28.402481	
0.42255	-13.195193	-61.274262	-0.532795
-0.004522	-0.617335	-42.300101	
0.56340	-13.195193	-61.274262	-0.532795
-0.004522	-1.001193	-73.097456	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.363042	114.533266	1.070910
0.003666	0.617325	94.537563	
0.14085	10.363042	114.533266	1.070910
0.003666	0.169770	86.253512	
0.28170	10.363042	114.533266	1.070910
0.003666	0.184425	95.563687	
0.42255	10.363042	114.533266	1.070910
0.003666	0.453261	119.149220	
0.56340	10.363042	114.533266	1.070910
0.003666	0.721904	148.687203	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.784412	-73.649899	-0.641433
-0.004316	-0.363655	-19.034383	
0.14085	-18.784412	-73.649899	-0.641433
-0.004316	-0.099395	-26.268235	
0.28170	-18.784412	-73.649899	-0.641433
-0.004316	-0.295176	-54.754592	
0.42255	-18.784412	-73.649899	-0.641433
-0.004316	-0.732691	-88.021902	
0.56340	-18.784412	-73.649899	-0.641433
-0.004316	-1.180413	-133.436970	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.315448	106.881007	1.386688
0.003736	0.789959	84.191557	
0.14085	11.315448	106.881007	1.386688
0.003736	0.209728	72.502206	
0.28170	11.315448	106.881007	1.386688
0.003736	0.257653	80.207042	
0.42255	11.315448	106.881007	1.386688
0.003736	0.632975	100.160505	
0.56340	11.315448	106.881007	1.386688
0.003736	1.008237	125.084791	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.799128	-63.027765	-0.895515
-0.003610	-0.501994	-31.064434	
0.14085	-17.799128	-63.027765	-0.895515
-0.003610	-0.130385	-36.710539	
0.28170	-17.799128	-63.027765	-0.895515
-0.003610	-0.385068	-60.052375	
0.42255	-17.799128	-63.027765	-0.895515
-0.003610	-0.956902	-87.328881	
0.56340	-17.799128	-63.027765	-0.895515
-0.003610	-1.537285	-124.665787	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.300568	16.752409	0.769678
0.001074	0.429666	10.968261	
0.14085	1.300568	16.752409	0.769678
0.001074	0.106894	5.811536	
0.28170	1.300568	16.752409	0.769678
0.001074	0.161199	3.240176	
0.42255	1.300568	16.752409	0.769678
0.001074	0.393671	2.114741	
0.56340	1.300568	16.752409	0.769678
0.001074	0.626147	2.875818	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2220

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.000111	-2.765093	-0.554330
-9.70E-06	-0.303782	-22.163320	
0.14085	-4.000111	-2.765093	-0.554330
-9.70E-06	-0.071242	-21.210507	
0.28170	-4.000111	-2.765093	-0.554330
-9.70E-06	-0.215942	-20.342266	
0.42255	-4.000111	-2.765093	-0.554330
-9.70E-06	-0.538711	-19.582631	
0.56340	-4.000111	-2.765093	-0.554330
-9.70E-06	-0.861498	-18.907128	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.389197	34.092565	1.288271
0.001972	0.719538	16.770708	
0.14085	12.389197	34.092565	1.288271
0.001972	0.179320	8.791325	
0.28170	12.389197	34.092565	1.288271
0.001972	0.267055	6.181841	
0.42255	12.389197	34.092565	1.288271
0.001972	0.659960	8.580965	
0.56340	12.389197	34.092565	1.288271
0.001972	1.052914	12.171015	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.732919	-11.662041	-0.936988
-0.000187	-0.519535	-41.387676	
0.14085	-5.732919	-11.662041	-0.936988
-0.000187	-0.127134	-40.327643	
0.28170	-5.732919	-11.662041	-0.936988
-0.000187	-0.361870	-41.044007	
0.42255	-5.732919	-11.662041	-0.936988
-0.000187	-0.901466	-42.997743	
0.56340	-5.732919	-11.662041	-0.936988
-0.000187	-1.441656	-46.753015	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.733501	42.481596	1.529274
0.001809	0.860132	45.606925	
0.14085	8.733501	42.481596	1.529274
0.001809	0.218929	56.023499	
0.28170	8.733501	42.481596	1.529274
0.001809	0.293984	71.480467	
0.42255	8.733501	42.481596	1.529274
0.001809	0.723918	92.710683	
0.56340	8.733501	42.481596	1.529274
0.001809	1.153726	114.966868	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.400407	-55.296166	-1.024798
-0.000298	-0.566260	-35.146592	
0.14085	-8.400407	-55.296166	-1.024798
-0.000298	-0.136846	-40.745596	
0.28170	-8.400407	-55.296166	-1.024798
-0.000298	-0.423949	-46.548012	
0.42255	-8.400407	-55.296166	-1.024798
-0.000298	-1.064259	-53.140366	
0.56340	-8.400407	-55.296166	-1.024798
-0.000298	-1.705480	-61.581208	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.730302	106.694290	1.472251
0.004461	0.843318	98.150923	
0.14085	8.730302	106.694290	1.472251
0.004461	0.227599	80.772768	
0.28170	8.730302	106.694290	1.472251
0.004461	0.272051	78.622214	
0.42255	8.730302	106.694290	1.472251
0.004461	0.664459	95.006796	
0.56340	8.730302	106.694290	1.472251
0.004461	1.056930	117.334440	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2221

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.967992	-56.895950	-0.935880
-0.003782	-0.522904	-32.825834	
0.14085	-19.967992	-56.895950	-0.935880
-0.003782	-0.134644	-34.282859	
0.28170	-19.967992	-56.895950	-0.935880
-0.003782	-0.405512	-51.947320	
0.42255	-19.967992	-56.895950	-0.935880
-0.003782	-1.011320	-75.570153	
0.56340	-19.967992	-56.895950	-0.935880
-0.003782	-1.627435	-111.049940	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.166508	32.703984	0.457326
4.26E-06	0.239410	2.754724	
0.14085	15.166508	32.703984	0.457326
4.26E-06	0.04827	6.238476	
0.28170	15.166508	32.703984	0.457326
4.26E-06	0.096964	21.760618	
0.42255	15.166508	32.703984	0.457326
4.26E-06	0.253594	39.129252	
0.56340	15.166508	32.703984	0.457326
4.26E-06	0.411054	56.908984	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.492932	-43.073925	-0.374378
-0.001540	-0.216288	-31.711470	
0.14085	-2.492932	-43.073925	-0.374378
-0.001540	-0.060018	-33.575258	
0.28170	-2.492932	-43.073925	-0.374378
-0.001540	-0.143408	-44.944747	
0.42255	-2.492932	-43.073925	-0.374378
-0.001540	-0.335487	-58.045960	
0.56340	-2.492932	-43.073925	-0.374378
-0.001540	-0.527110	-71.505235	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.236809	120.305988	0.844239
0.005868	0.499058	107.473219	
0.14085	14.236809	120.305988	0.844239
0.005868	0.145300	85.301801	
0.28170	14.236809	120.305988	0.844239
0.005868	0.138907	76.848524	
0.42255	14.236809	120.305988	0.844239
0.005868	0.347375	91.151045	
0.56340	14.236809	120.305988	0.844239
0.005868	0.559060	116.609711	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.908891	-65.085472	-0.512890
-0.008078	-0.318534	-25.859092	
0.14085	-21.908891	-65.085472	-0.512890
-0.008078	-0.104232	-31.663432	
0.28170	-21.908891	-65.085472	-0.512890
-0.008078	-0.236099	-48.908814	
0.42255	-21.908891	-65.085472	-0.512890
-0.008078	-0.569325	-77.462746	
0.56340	-21.908891	-65.085472	-0.512890
-0.008078	-0.918987	-126.311361	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.225133	113.190504	1.403300
0.004349	0.802992	98.531603	
0.14085	15.225133	113.190504	1.403300
0.004349	0.214134	93.774496	
0.28170	15.225133	113.190504	1.403300
0.004349	0.254727	102.576375	
0.42255	15.225133	113.190504	1.403300
0.004349	0.639165	127.926077	
0.56340	15.225133	113.190504	1.403300
0.004349	1.026831	161.205425	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2222

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.715406	-84.884039	-0.927842
-0.006058	-0.540250	-25.636758	
0.14085	-18.715406	-84.884039	-0.927842
-0.006058	-0.152066	-37.942577	
0.28170	-18.715406	-84.884039	-0.927842
-0.006058	-0.391462	-60.532661	
0.42255	-18.715406	-84.884039	-0.927842
-0.006058	-0.966071	-91.446093	
0.56340	-18.715406	-84.884039	-0.927842
-0.006058	-1.551717	-136.763896	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.959333	110.903427	1.795452
0.004251	1.015862	85.926420	
0.14085	19.959333	110.903427	1.795452
0.004251	0.262015	78.358518	
0.28170	19.959333	110.903427	1.795452
0.004251	0.356464	86.290895	
0.42255	19.959333	110.903427	1.795452
0.004251	0.894032	108.537331	
0.56340	19.959333	110.903427	1.795452
0.004251	1.434098	137.574907	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.815650	-74.983709	-1.291149
-0.005034	-0.739759	-38.704922	
0.14085	-17.815650	-74.983709	-1.291149
-0.005034	-0.119330	-50.774901	
0.28170	-17.815650	-74.983709	-1.291149
-0.005034	-0.504510	-74.462528	
0.42255	-17.815650	-74.983709	-1.291149
-0.005034	-1.245943	-105.327129	
0.56340	-17.815650	-74.983709	-1.291149
-0.005034	-1.996614	-148.232317	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.092087	59.289961	0.539709
0.004111	0.337399	99.499683	
0.14085	0.092087	59.289961	0.539709
0.004111	0.110713	91.520280	
0.28170	0.092087	59.289961	0.539709
0.004111	0.074835	84.097670	
0.42255	0.092087	59.289961	0.539709
0.004111	0.177725	91.363258	
0.56340	0.092087	59.289961	0.539709
0.004111	0.282723	106.316372	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.760026	-39.343647	-0.255888
-0.004397	-0.158670	-2.078709	
0.14085	-18.760026	-39.343647	-0.255888
-0.004397	-0.051200	-3.811245	
0.28170	-18.760026	-39.343647	-0.255888
-0.004397	-0.134508	-6.279789	
0.42255	-18.760026	-39.343647	-0.255888
-0.004397	-0.346375	15.599745	
0.56340	-18.760026	-39.343647	-0.255888
-0.004397	-0.569807	-39.025458	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.706590	79.247647	1.297493
0.004375	0.756744	100.506956	
0.14085	7.706590	79.247647	1.297493
0.004375	0.211564	95.139946	
0.28170	7.706590	79.247647	1.297493
0.004375	0.239213	92.557353	
0.42255	7.706590	79.247647	1.297493
0.004375	0.594315	104.668720	
0.56340	7.706590	79.247647	1.297493
0.004375	0.952643	124.417333	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2223

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.073690	-53.065831	-0.857619
-0.004196	-0.495969	-13.655802	
0.14085	-16.073690	-53.065831	-0.857619
-0.004196	-0.137105	-22.365014	
0.28170	-16.073690	-53.065831	-0.857619
-0.004196	-0.348969	-32.410232	
0.42255	-16.073690	-53.065831	-0.857619
-0.004196	-0.879724	-49.166539	
0.56340	-16.073690	-53.065831	-0.857619
-0.004196	-1.421338	-79.509420	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.961473	106.597412	1.483979
0.002957	0.847141	92.555276	
0.14085	11.961473	106.597412	1.483979
0.002957	0.224020	84.493017	
0.28170	11.961473	106.597412	1.483979
0.002957	0.271277	96.885208	
0.42255	11.961473	106.597412	1.483979
0.002957	0.672418	120.097251	
0.56340	11.961473	106.597412	1.483979
0.002957	1.075829	148.611467	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.886464	-73.219689	-0.963089
-0.003914	-0.545779	-19.420146	
0.14085	-20.886464	-73.219689	-0.963089
-0.003914	-0.144038	-25.758419	
0.28170	-20.886464	-73.219689	-0.963089
-0.003914	-0.408671	-53.872254	
0.42255	-20.886464	-73.219689	-0.963089
-0.003914	-1.022726	-87.178362	
0.56340	-20.886464	-73.219689	-0.963089
-0.003914	-1.643667	-129.426024	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.926177	104.652586	1.914045
0.003175	1.082556	84.040336	
0.14085	12.926177	104.652586	1.914045
0.003175	0.278561	71.424738	
0.28170	12.926177	104.652586	1.914045
0.003175	0.382862	81.818383	
0.42255	12.926177	104.652586	1.914045
0.003175	0.947090	101.894268	
0.56340	12.926177	104.652586	1.914045
0.003175	1.513722	126.381732	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.782443	-63.871777	-1.352038
-0.003279	-0.758104	-32.269461	
0.14085	-20.782443	-63.871777	-1.352038
-0.003279	-0.193120	-37.199186	
0.28170	-20.782443	-63.871777	-1.352038
-0.003279	-0.532076	-64.506165	
0.42255	-20.782443	-63.871777	-1.352038
-0.003279	-1.327952	-96.785142	
0.56340	-20.782443	-63.871777	-1.352038
-0.003279	-2.129447	-136.626739	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.160034	22.885242	1.063218
0.001148	0.592931	14.330083	
0.14085	2.160034	22.885242	1.063218
0.001148	0.146412	7.066064	
0.28170	2.160034	22.885242	1.063218
0.001148	0.244939	3.932899	
0.42255	2.160034	22.885242	1.063218
0.001148	0.601233	4.480607	
0.56340	2.160034	22.885242	1.063218
0.001148	0.957915	5.570839	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2224

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.748916	-5.484509	-0.849571
-7.00E-06	-0.465751	-24.384238	
0.14085	-7.748916	-5.484509	-0.849571
-7.00E-06	-0.108870	-23.741847	
0.28170	-7.748916	-5.484509	-0.849571
-7.00E-06	-0.298618	-26.170907	
0.42255	-7.748916	-5.484509	-0.849571
-7.00E-06	-0.744826	-31.873218	
0.56340	-7.748916	-5.484509	-0.849571
-7.00E-06	-1.190624	-37.948727	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.576226	45.209647	1.773795
0.001951	0.987149	19.811213	
0.14085	13.576226	45.209647	1.773795
0.001951	0.242092	9.461982	
0.28170	13.576226	45.209647	1.773795
0.001951	0.404583	6.851178	
0.42255	13.576226	45.209647	1.773795
0.001951	1.005379	10.045568	
0.56340	13.576226	45.209647	1.773795
0.001951	1.606588	14.873500	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.492593	-14.439441	-1.433033
-0.000130	-0.795410	-43.619723	
0.14085	-9.492593	-14.439441	-1.433033
-0.000130	-0.195474	-45.982328	
0.28170	-9.492593	-14.439441	-1.433033
-0.000130	-0.500915	-54.384009	
0.42255	-9.492593	-14.439441	-1.433033
-0.000130	-1.244808	-67.184745	
0.56340	-9.492593	-14.439441	-1.433033
-0.000130	-1.988368	-81.036084	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.496498	50.823899	2.125651
0.001577	1.190377	49.949472	
0.14085	9.496498	50.823899	2.125651
0.001577	0.296970	56.600172	
0.28170	9.496498	50.823899	2.125651
0.001577	0.454208	69.986554	
0.42255	9.496498	50.823899	2.125651
0.001577	1.125973	87.994527	
0.56340	9.496498	50.823899	2.125651
0.001577	1.799073	107.151328	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.519501	-50.372669	-1.601895
-7.69E-06	-0.884415	-37.234800	
0.14085	-13.519501	-50.372669	-1.601895
-7.69E-06	-0.213486	-44.816065	
0.28170	-13.519501	-50.372669	-1.601895
-7.69E-06	-0.591083	-57.092326	
0.42255	-13.519501	-50.372669	-1.601895
-7.69E-06	-1.483736	-72.723270	
0.56340	-13.519501	-50.372669	-1.601895
-7.69E-06	-2.375368	-88.714816	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.798004	103.658134	2.051696
0.003634	1.165641	97.145407	
0.14085	9.798004	103.658134	2.051696
0.003634	0.340035	80.944987	
0.28170	9.798004	103.658134	2.051696
0.003634	0.414180	82.015111	
0.42255	9.798004	103.658134	2.051696
0.003634	1.019900	97.788399	
0.56340	9.798004	103.658134	2.051696
0.003634	1.627648	119.184429	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2225

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.738043	-57.103920	-1.450090
-0.003127	-0.809245	-35.007397	
0.14085	-24.738043	-57.103920	-1.450090
-0.003127	-0.203089	-37.816499	
0.28170	-24.738043	-57.103920	-1.450090
-0.003127	-0.565270	-59.096937	
0.42255	-24.738043	-57.103920	-1.450090
-0.003127	-1.417990	-88.953057	
0.56340	-24.738043	-57.103920	-1.450090
-0.003127	-2.277109	-127.269781	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.397252	129.192623	1.529274
0.005884	0.860132	104.318571	
0.14085	14.397252	129.192623	1.529274
0.005884	0.227599	97.546149	
0.28170	14.397252	129.192623	1.529274
0.005884	0.293984	102.635592	
0.42255	14.397252	129.192623	1.529274
0.005884	0.723918	129.277298	
0.56340	14.397252	129.192623	1.529274
0.005884	1.153726	162.781001	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.967992	-82.071731	-1.024798
-0.007522	-0.566260	-41.387676	
0.14085	-19.967992	-82.071731	-1.024798
-0.007522	-0.139393	-50.211511	
0.28170	-19.967992	-82.071731	-1.024798
-0.007522	-0.423949	-72.708500	
0.42255	-19.967992	-82.071731	-1.024798
-0.007522	-1.064259	-100.065696	
0.56340	-19.967992	-82.071731	-1.024798
-0.007522	-1.705480	-145.548441	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.959333	120.305988	2.125651
0.005868	1.190377	107.473219	
0.14085	19.959333	120.305988	2.125651
0.005868	0.304035	95.139946	
0.28170	19.959333	120.305988	2.125651
0.005868	0.454208	102.576375	
0.42255	19.959333	120.305988	2.125651
0.005868	1.125973	127.926077	
0.56340	19.959333	120.305988	2.125651
0.005868	1.799073	161.205425	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.738043	-84.884039	-1.601895
-0.008078	-0.884415	-43.619723	
0.14085	-24.738043	-84.884039	-1.601895
-0.008078	-0.213486	-50.774901	
0.28170	-24.738043	-84.884039	-1.601895
-0.008078	-0.591083	-74.462528	
0.42255	-24.738043	-84.884039	-1.601895
-0.008078	-1.483736	-105.327129	
0.56340	-24.738043	-84.884039	-1.601895
-0.008078	-2.375368	-148.232317	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.959333	129.192623	2.125651
0.005884	1.190377	107.473219	
0.14085	19.959333	129.192623	2.125651
0.005884	0.304035	97.546149	
0.28170	19.959333	129.192623	2.125651
0.005884	0.454208	102.635592	
0.42255	19.959333	129.192623	2.125651
0.005884	1.125973	129.277298	
0.56340	19.959333	129.192623	2.125651
0.005884	1.799073	162.781001	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2226

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.738043	-84.884039	-1.601895
-0.008078	-0.884415	-43.619723	
0.14085	-24.738043	-84.884039	-1.601895
-0.008078	-0.213486	-50.774901	
0.28170	-24.738043	-84.884039	-1.601895
-0.008078	-0.591083	-74.462528	
0.42255	-24.738043	-84.884039	-1.601895
-0.008078	-1.483736	-105.327129	
0.56340	-24.738043	-84.884039	-1.601895
-0.008078	-2.375368	-148.232317	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.959333	129.192623	2.125651
0.005884	1.190377	107.473219	
0.14085	19.959333	129.192623	2.125651
0.005884	0.304035	97.546149	
0.28170	19.959333	129.192623	2.125651
0.005884	0.454208	102.635592	
0.42255	19.959333	129.192623	2.125651
0.005884	1.125973	129.277298	
0.56340	19.959333	129.192623	2.125651
0.005884	1.799073	162.781001	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.738043	-84.884039	-1.601895
-0.008078	-0.884415	-43.619723	
0.14085	-24.738043	-84.884039	-1.601895
-0.008078	-0.213486	-50.774901	
0.28170	-24.738043	-84.884039	-1.601895
-0.008078	-0.591083	-74.462528	
0.42255	-24.738043	-84.884039	-1.601895
-0.008078	-1.483736	-105.327129	
0.56340	-24.738043	-84.884039	-1.601895
-0.008078	-2.375368	-148.232317	

ELEM 198 ========== LENGTH = 2.976943

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	16.174247	3.108405	0.462213
0.000526	0.488472	5.892092	
0.57752	16.174247	3.108405	0.462213
0.000526	0.294702	4.753617	
0.71834	16.174247	3.108405	0.462213
0.000526	0.100937	3.634849	
0.85917	16.174247	3.108405	0.462213
0.000526	0.036984	2.515996	
1.00000	16.174247	3.108405	0.462213
0.000526	0.129919	1.771273	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-2.043186	-42.999600	-0.221753
-0.001385	-0.241955	-80.125626	
0.57752	-2.043186	-42.999600	-0.221753
-0.001385	-0.148979	-62.137767	
0.71834	-2.043186	-42.999600	-0.221753
-0.001385	-0.056050	-44.149699	
0.85917	-2.043186	-42.999600	-0.221753
-0.001385	-0.092883	-26.563825	
1.00000	-2.043186	-42.999600	-0.221753
-0.001385	-0.286652	-12.952653	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	15.531265	27.657613	0.616826
0.005714	0.659718	47.272645	
0.57752	15.531265	27.657613	0.616826
0.005714	0.401147	37.087186	
0.71834	15.531265	27.657613	0.616826
0.005714	0.142884	35.824911	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2227

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85917	15.531265	27.657613	0.616826
0.005714	0.105160	55.785649	
1.00000	15.531265	27.657613	0.616826
0.005714	0.292363	81.490397	

COMB DB-G1-2 ---------- MIN

```
REL DIST          P          V2          V3
    T          M2          M3
0.43669   -29.267876 -116.034211   -0.446491
-0.005444   -0.456420 -123.429202
0.57752   -29.267876 -116.034211   -0.446491
-0.005444   -0.269252   -9.658046
0.71834   -29.267876 -116.034211   -0.446491
-0.005444   -0.099953  -50.729192
0.85917   -29.267876 -116.034211   -0.446491
-0.005444   -0.134709  -29.765466
1.00000   -29.267876 -116.034211   -0.446491
-0.005444   -0.389969  -11.971556

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   14.146590   46.705304    0.979924
 0.004611    1.058098   76.581551
0.57752   14.146590   46.705304    0.979924
 0.004611    0.647296   57.573733
0.71834   14.146590   46.705304    0.979924
 0.004611    0.236790   44.977703
0.85917   14.146590   46.705304    0.979924
 0.004611    0.154210   51.382666
1.00000   14.146590   46.705304    0.979924
 0.004611    0.476967   63.855788

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -22.929029  -97.782279   -0.769548
-0.004040   -0.813484 -115.375742
0.57752  -22.929029  -97.782279   -0.769548
-0.004040   -0.490883   -77.675646
0.71834  -22.929029  -97.782279   -0.769548
-0.004040   -0.180391   -50.221759
0.85917  -22.929029  -97.782279   -0.769548
-0.004040   -0.187507   -27.753541
1.00000  -22.929029  -97.782279   -0.769548
-0.004040   -0.595828   -11.973677

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   26.522595   56.384117    1.320740
 0.004286    1.426007   93.364575
0.57752   26.522595   56.384117    1.320740
 0.004286    0.872317   70.435153
0.71834   26.522595   56.384117    1.320740
 0.004286    0.318886   53.013552
0.85917   26.522595   56.384117    1.320740
 0.004286    0.207523   51.385884
1.00000   26.522595   56.384117    1.320740
 0.004286    0.661413   55.668284

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -22.063751  -82.880043   -1.082424
-0.003549   -1.153725  -98.889148
0.57752  -22.063751  -82.880043   -1.082424
-0.003549   -0.699959   -66.877801
0.71834  -22.063751  -82.880043   -1.082424
-0.003549   -0.256253   -45.525222
0.85917  -22.063751  -82.880043   -1.082424
-0.003549   -0.246047   -30.671495
1.00000  -22.063751  -82.880043   -1.082424
-0.003549   -0.797651   -22.031557

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669    0.148076   19.846474    0.268955
 0.004581    0.297594   38.771739
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2228

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
    T          M2          M3
0.57752    0.148076   19.846474    0.268955
 0.004581    0.184959   31.760984
0.71834    0.148076   19.846474    0.268955
 0.004581    0.072641   33.969891
0.85917    0.148076   19.846474    0.268955
 0.004581    0.081487   53.165491
1.00000    0.148076   19.846474    0.268955
 0.004581    0.218379   76.872038

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -30.975951  -71.718069   -0.326575
-0.003309   -0.329312   -44.566273
0.57752  -30.975951  -71.718069   -0.326575
-0.003309   -0.192438   -18.889989
0.71834  -30.975951  -71.718069   -0.326575
-0.003309   -0.070539   -5.578510
0.85917  -30.975951  -71.718069   -0.326575
-0.003309   -0.056458   -1.091422
1.00000  -30.975951  -71.718069   -0.326575
-0.003309   -0.166314   -1.526758

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   11.881046   47.046083    0.828995
 0.004872    0.905673   79.550855
0.57752   11.881046   47.046083    0.828995
 0.004872    0.558171   60.704347
0.71834   11.881046   47.046083    0.828995
 0.004872    0.210883   49.453392
0.85917   11.881046   47.046083    0.828995
 0.004872    0.169545   53.466028
1.00000   11.881046   47.046083    0.828995
 0.004872    0.491947   72.305475

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -25.575742  -64.963210   -0.790344
-0.003148   -0.833390   -44.105901
0.57752  -25.575742  -64.963210   -0.790344
-0.003148   -0.502083   -20.581347
0.71834  -25.575742  -64.963210   -0.790344
-0.003148   -0.184651   -10.037520
0.85917  -25.575742  -64.963210   -0.790344
-0.003148   -0.151892    -6.910119
1.00000  -25.575742  -64.963210   -0.790344
-0.003148   -0.496695   -11.366378

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   16.743484   70.103216    0.970230
 0.003981    1.053269  128.492663
0.57752   16.743484   70.103216    0.970230
 0.003981    0.646614   99.781131
0.71834   16.743484   70.103216    0.970230
 0.003981    0.240462   76.706511
0.85917   16.743484   70.103216    0.970230
 0.003981    0.175484   69.776913
1.00000   16.743484   70.103216    0.970230
 0.003981    0.542926   65.450965

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -35.638481  -74.215036   -0.876290
-0.003031   -0.926543   -80.491865
0.57752  -35.638481  -74.215036   -0.876290
-0.003031   -0.559197   -52.119567
0.71834  -35.638481  -74.215036   -0.876290
-0.003031   -0.201663   -33.302372
0.85917  -35.638481  -74.215036   -0.876290
-0.003031   -0.178226   -20.489588
1.00000  -35.638481  -74.215036   -0.876290
-0.003031   -0.582670   -14.997638
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2229

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   18.251711   71.686448    1.326212
 0.003778    1.436825  133.591414
0.57752   18.251711   71.686448    1.326212
 0.003778    0.880914  104.073600
0.71834   18.251711   71.686448    1.326212
 0.003778    0.325440   79.175682
0.85917   18.251711   71.686448    1.326212
 0.003778    0.233298   67.905771
1.00000   18.251711   71.686448    1.326212
 0.003778    0.739683   58.738687

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -33.770221  -63.287716   -1.207712
-0.002764   -1.285561   -70.158948
0.57752  -33.770221  -63.287716   -1.207712
-0.002764   -0.779266   -45.918235
0.71834  -33.770221  -63.287716   -1.207712
-0.002764   -0.281183   -31.548779
0.85917  -33.770221  -63.287716   -1.207712
-0.002764   -0.240556   -22.240110
1.00000  -33.770221  -63.287716   -1.207712
-0.002764   -0.794619   -18.962223

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669    2.148556   18.142951    0.792892
 0.000677    0.856718   38.399542
0.57752    2.148556   18.142951    0.792892
 0.000677    0.524310   30.832130
0.71834    2.148556   18.142951    0.792892
 0.000677    0.191903   23.292599
0.85917    2.148556   18.142951    0.792892
 0.000677    0.139009   15.810120
1.00000    2.148556   18.142951    0.792892
 0.000677    0.455367    8.500857

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669   -7.881487   -2.653146   -0.754608
-0.000379   -0.810067   -7.035543
0.57752   -7.881487   -2.653146   -0.754608
-0.000379   -0.493706   -6.718422
0.71834   -7.881487   -2.653146   -0.754608
-0.000379   -0.177373   -6.556618
0.85917   -7.881487   -2.653146   -0.754608
-0.000379   -0.140527   -6.685174
1.00000   -7.881487   -2.653146   -0.754608
-0.000379   -0.472933   -7.038498

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   23.538921   42.175563    1.345387
 0.001372    1.453927   75.757798
0.57752   23.538921   42.175563    1.345387
 0.001372    0.889894   58.552393
0.71834   23.538921   42.175563    1.345387
 0.001372    0.325855   41.784478
0.85917   23.538921   42.175563    1.345387
 0.001372    0.222430   26.156706
1.00000   23.538921   42.175563    1.345387
 0.001372    0.734855   12.684829

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -10.905205   -5.620719   -1.222323
-0.000631   -1.314897   -8.832582
0.57752  -10.905205   -5.620719   -1.222323
-0.000631   -0.802472   -8.612504
0.71834  -10.905205   -5.620719   -1.222323
-0.000631   -0.290733   -1.967063
0.85917  -10.905205   -5.620719   -1.222323
-0.000631   -0.238765   -16.718992
1.00000  -10.905205   -5.620719   -1.222323
-0.000631   -0.802698   -24.061868
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2230

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   11.104380   54.483495    1.517186
 0.001826    1.646704   97.235539
0.57752   11.104380   54.483495    1.517186
 0.001826    1.010674   74.696187
0.71834   11.104380   54.483495    1.517186
 0.001826    0.374814   53.460780
0.85917   11.104380   54.483495    1.517186
 0.001826    0.286601   38.553729
1.00000   11.104380   54.483495    1.517186
 0.001826    0.846672   26.186495

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -17.612664  -22.444931   -1.407202
-0.000643   -1.513080   -27.011455
0.57752  -17.612664  -22.444931   -1.407202
-0.000643   -0.923147   -19.632229
0.71834  -17.612664  -22.444931   -1.407202
-0.000643   -0.334075   -14.516182
0.85917  -17.612664  -22.444931   -1.407202
-0.000643   -0.263028   -12.346297
1.00000  -17.612664  -22.444931   -1.407202
-0.000643   -0.898677   -16.535360

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   11.517866   73.653740    1.387445
 0.004205    1.505658  141.852144
0.57752   11.517866   73.653740    1.387445
 0.004205    0.924094  111.586260
0.71834   11.517866   73.653740    1.387445
 0.004205    0.342994   86.691096
0.85917   11.517866   73.653740    1.387445
 0.004205    0.260448   76.999500
1.00000   11.517866   73.653740    1.387445
 0.004205    0.819868   69.400771

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -39.543354  -59.590286   -1.334260
-0.002876   -1.417603   -56.317498
0.57752  -39.543354  -59.590286   -1.334260
-0.002876   -0.858258   -35.372093
0.71834  -39.543354  -59.590286   -1.334260
-0.002876   -0.308663   -23.640344
0.85917  -39.543354  -59.590286   -1.334260
-0.002876   -0.250401   -17.308057
1.00000  -39.543354  -59.590286   -1.334260
-0.002876   -0.830010   -16.966495

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   37.041555    7.006267    0.575162
 0.000507    0.606753   10.399143
0.57752   37.041555    7.006267    0.575162
 0.000507    0.365610    8.317936
0.71834   37.041555    7.006267    0.575162
 0.000507    0.124011    6.258679
0.85917   37.041555    7.006267    0.575162
 0.000507    0.047072    4.294674
1.00000   37.041555    7.006267    0.575162
 0.000507    0.165135    2.506320

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669   -3.596814  -68.787269   -0.282895
-0.001550   -0.307851 -137.516593
0.57752   -3.596814  -68.787269   -0.282895
-0.001550   -0.189443 -108.995344
0.71834   -3.596814  -68.787269   -0.282895
-0.001550   -0.070275  -80.498420
0.85917   -3.596814  -68.787269   -0.282895
-0.001550   -0.116473   -52.200683
1.00000   -3.596814  -68.787269   -0.282895
-0.001550   -0.357705   -25.536883
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2231

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   33.764949   31.124776    0.810215
 0.005805    0.861441   59.447110
0.57752   33.764949   31.124776    0.810215
 0.005805    0.523217   47.609837
0.71834   33.764949   31.124776    0.810215
 0.005805    0.187056   45.503220
0.85917   33.764949   31.124776    0.810215
 0.005805    0.133271   64.356171
1.00000   33.764949   31.124776    0.810215
 0.005805    0.386189   87.597942

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -39.060159 -143.518271   -0.606253
-0.005147   -0.628064 -184.699352
0.57752  -39.060159 -143.518271   -0.606253
-0.005147   -0.376444 -125.433511
0.71834  -39.060159 -143.518271   -0.606253
-0.005147   -0.138251   -83.585278
0.85917  -39.060159 -143.518271   -0.606253
-0.005147   -0.174510   -51.761649
1.00000  -39.060159 -143.518271   -0.606253
-0.005147   -0.512838   -23.934672

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   31.879354   59.821555    1.393589
 0.004746    1.500591  109.462108
0.57752   31.879354   59.821555    1.393589
 0.004746    0.917393   85.121074
0.71834   31.879354   59.821555    1.393589
 0.004746    0.335423   67.736124
0.85917   31.879354   59.821555    1.393589
 0.004746    0.217627   66.897611
1.00000   31.879354   59.821555    1.393589
 0.004746    0.695653   71.535485

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -34.625722 -121.889908   -1.140326
-0.003978   -1.213384 -167.511761
0.57752  -34.625722 -121.889908   -1.140326
-0.003978   -0.736935 -117.081655
0.71834  -34.625722 -121.889908   -1.140326
-0.003978   -0.269462   -79.159273
0.85917  -34.625722 -121.889908   -1.140326
-0.003978   -0.263365   -48.089883
1.00000  -34.625722 -121.889908   -1.140326
-0.003978   -0.847285   -22.749105

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   41.411868   80.731155    1.865947
 0.004392    2.009862  138.665685
0.57752   41.411868   80.731155    1.865947
 0.004392    1.464555  105.850406
0.71834   41.411868   80.731155    1.865947
 0.004392    0.447959   79.461911
0.85917   41.411868   80.731155    1.865947
 0.004392    0.291192   67.884403
1.00000   41.411868   80.731155    1.865947
 0.004392    0.951048   62.631822

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -33.309202 -103.841972   -1.573504
-0.003468   -1.756701 -144.276568
0.57752  -33.309202 -103.841972   -1.573504
-0.003468   -1.025846 -101.715249
0.71834  -33.309202 -103.841972   -1.573504
-0.003468   -0.374973   -71.045715
0.85917  -33.309202 -103.841972   -1.573504
-0.003468   -0.346435   -47.432925
1.00000  -33.309202 -103.841972   -1.573504
-0.003468   -1.128402   -30.707484
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2232

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669    0.119546   23.546774    0.403148
 0.003948    0.442334   52.475834
0.57752    0.119546   23.546774    0.403148
 0.003948    0.274462   43.834755
0.71834    0.119546   23.546774    0.403148
 0.003948    0.108502   42.732428
0.85917    0.119546   23.546774    0.403148
 0.003948    0.108087   56.723480
1.00000    0.119546   23.546774    0.403148
 0.003948    0.313430   74.012149

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -41.099932  -63.801342   -0.491241
-0.002458   -0.509185   -45.593265
0.57752  -41.099932  -63.801342   -0.491241
-0.002458   -0.304741   -19.649147
0.71834  -41.099932  -63.801342   -0.491241
-0.002458   -0.110369    -6.008853
0.85917  -41.099932  -63.801342   -0.491241
-0.002458   -0.076734   -1.068230
1.00000  -41.099932  -63.801342   -0.491241
-0.002458   -0.244788   -1.459944

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   12.080861   67.275135    1.243232
 0.004330    1.351818  120.563626
0.57752   12.080861   67.275135    1.243232
 0.004330    0.831503   93.411840
0.71834   12.080861   67.275135    1.243232
 0.004330    0.313188   73.313438
0.85917   12.080861   67.275135    1.243232
 0.004330    0.227599   69.833892
1.00000   12.080861   67.275135    1.243232
 0.004330    0.730933   70.627009

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -35.174650  -58.205432   -1.199645
-0.002402   -1.278862   -44.440323
0.57752  -35.174650  -58.205432   -1.199645
-0.002402   -0.777168   -21.047356
0.71834  -35.174650  -58.205432   -1.199645
-0.002402   -0.284614   -10.137603
0.85917  -35.174650  -58.205432   -1.199645
-0.002402   -0.222530    -6.761058
1.00000  -35.174650  -58.205432   -1.199645
-0.002402   -0.743755   -10.954967

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   21.383367   86.139648    1.411239
 0.003351    1.529116  161.092132
0.57752   21.383367   86.139648    1.411239
 0.003351    0.938001  125.823365
0.71834   21.383367   86.139648    1.411239
 0.003351    0.347840   95.386793
0.85917   21.383367   86.139648    1.411239
 0.003351    0.240013   76.719389
1.00000   21.383367   86.139648    1.411239
 0.003351    0.774526   62.423310

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -43.124617  -79.312682   -1.274396
-0.002443   -1.359973 -102.156901
0.57752  -43.124617  -79.312682   -1.274396
-0.002443   -0.826490   -59.762641
0.71834  -43.124617  -79.312682   -1.274396
-0.002443   -0.298473   -45.794865
0.85917  -43.124617  -79.312682   -1.274396
-0.002443   -0.252226   -27.296539
1.00000  -43.124617  -79.312682   -1.274396
-0.002443   -0.844405   -16.313695
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2233

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   22.886490   94.627605    1.912408
 0.003270    2.069096  174.893644
0.57752   22.886490   94.627605    1.912408
 0.003270    1.267756  136.333364
0.71834   22.886490   94.627605    1.912408
 0.003270    0.467155  102.027475
0.85917   22.886490   94.627605    1.912408
 0.003270    0.325361   77.747600
1.00000   22.886490   94.627605    1.912408
 0.003270    1.063251   57.370954

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -42.707174  -68.862380   -1.758978
-0.002247   -1.883538   -91.046016
0.57752  -42.707174  -68.862380   -1.758978
-0.002247   -1.146520   -63.483750
0.71834  -42.707174  -68.862380   -1.758978
-0.002247   -0.414052   -43.808656
0.85917  -42.707174  -68.862380   -1.758978
-0.002247   -0.341729   -28.787942
1.00000  -42.707174  -68.862380   -1.758978
-0.002247   -1.143750   -20.123220

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669    3.518095   27.564344    1.128978
 0.000682    1.219822   56.250130
0.57752    3.518095   27.564344    1.128978
 0.000682    0.746468   44.155589
0.71834    3.518095   27.564344    1.128978
 0.000682    0.272908   33.589636
0.85917    3.518095   27.564344    1.128978
 0.000682    0.202983   22.517097
1.00000    3.518095   27.564344    1.128978
 0.000682    0.670763   11.909700

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -16.462378   -5.351448   -1.114257
-0.000347   -1.196497   -13.152183
0.57752  -16.462378   -5.351448   -1.114257
-0.000347   -0.729341   -11.374132
0.71834  -16.462378   -5.351448   -1.114257
-0.000347   -0.261661    -9.728962
0.85917  -16.462378   -5.351448   -1.114257
-0.000347   -0.199674    -8.354326
1.00000  -16.462378   -5.351448   -1.114257
-0.000347   -0.673466    -7.487995

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
    T          M2          M3
0.43669   25.984150   70.132155    1.935178
 0.001319    2.088856  119.136756
0.57752   25.984150   70.132155    1.935178
 0.001319    1.277537   90.569447
0.71834   25.984150   70.132155    1.935178
 0.001319    0.466077   62.836586
0.85917   25.984150   70.132155    1.935178
 0.001319    0.321753   57.454370
1.00000   25.984150   70.132155    1.935178
 0.001319    1.075912   15.804863

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
    T          M2          M3
0.43669  -19.293580   -8.080201   -1.796786
-0.000521   -1.935472   -17.553596
0.57752  -19.293580   -8.080201   -1.796786
-0.000521   -1.181935   -15.692555
0.71834  -19.293580   -8.080201   -1.796786
-0.000521   -0.428536   -15.234721
0.85917  -19.293580   -8.080201   -1.796786
-0.000521   -0.345181   -17.772971
1.00000  -19.293580   -8.080201   -1.796786
-0.000521   -1.156748   -24.705870
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	14.866550	82.894053	2.207808
0.001526	2.394576	150.861047	
0.57752	14.866550	82.894053	2.207808
0.001526	1.468853	116.890720	
0.71834	14.866550	82.894053	2.207808
0.001526	0.542966	83.896752	
0.85917	14.866550	82.894053	2.207808
0.001526	0.375922	54.209992	
1.00000	14.866550	82.894053	2.207808
0.001526	1.259880	28.902985	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-31.523818	-20.181372	-2.104773
-0.000397	-2.266913	-31.073101	
0.57752	-31.523818	-20.181372	-2.104773
-0.000397	-1.384063	-24.131720	
0.71834	-31.523818	-20.181372	-2.104773
-0.000397	-0.500479	-16.921593	
0.85917	-31.523818	-20.181372	-2.104773
-0.000397	-0.381101	-13.902866	
1.00000	-31.523818	-20.181372	-2.104773
-0.000397	-1.308036	-17.211172	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	15.842668	96.271970	2.019869
0.003463	2.188981	185.269693	
0.57752	15.842668	96.271970	2.019869
0.003463	1.342724	145.936995	
0.71834	15.842668	96.271970	2.019869
0.003463	0.497361	111.194075	
0.85917	15.842668	96.271970	2.019869
0.003463	0.365169	87.075259	
1.00000	15.842668	96.271970	2.019869
0.003463	1.186111	67.297265	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-52.773209	-58.611922	-1.956925
-0.002087	-2.092651	-69.166514	
0.57752	-52.773209	-58.611922	-1.956925
-0.002087	-1.272871	-46.224564	
0.71834	-52.773209	-58.611922	-1.956925
-0.002087	-0.458054	-30.861848	
0.85917	-52.773209	-58.611922	-1.956925
-0.002087	-0.357419	-20.688220	
1.00000	-52.773209	-58.611922	-1.956925
-0.002087	-1.204631	-17.735479	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	26.522595	73.653740	1.517186
0.005714	1.646704	141.852144	
0.57752	26.522595	73.653740	1.517186
0.005714	1.010674	111.586260	
0.71834	26.522595	73.653740	1.517186
0.005714	0.374814	86.691096	
0.85917	26.522595	73.653740	1.517186
0.005714	0.260448	76.999500	
1.00000	26.522595	73.653740	1.517186
0.005714	0.846672	81.490397	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-39.543354	-116.034211	-1.407202
-0.005444	-1.513080	-123.429202	
0.57752	-39.543354	-116.034211	-1.407202
-0.005444	-0.923147	-79.658046	
0.71834	-39.543354	-116.034211	-1.407202
-0.005444	-0.334075	-50.729192	
0.85917	-39.543354	-116.034211	-1.407202
-0.005444	-0.263028	-30.671495	
1.00000	-39.543354	-116.034211	-1.407202
-0.005444	-0.898677	-24.061868	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	41.411868	96.271970	2.207808
0.005805	2.394576	185.269693	
0.57752	41.411868	96.271970	2.207808
0.005805	1.468853	145.936995	
0.71834	41.411868	96.271970	2.207808
0.005805	0.542966	111.194075	
0.85917	41.411868	96.271970	2.207808
0.005805	0.375922	87.075259	
1.00000	41.411868	96.271970	2.207808
0.005805	1.259880	87.597942	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-52.773209	-143.518271	-2.104773
-0.005147	-2.266913	-184.699352	
0.57752	-52.773209	-143.518271	-2.104773
-0.005147	-1.384063	-125.433511	
0.71834	-52.773209	-143.518271	-2.104773
-0.005147	-0.500479	-83.585278	
0.85917	-52.773209	-143.518271	-2.104773
-0.005147	-0.381101	-52.200683	
1.00000	-52.773209	-143.518271	-2.104773
-0.005147	-1.308036	-30.707484	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	41.411868	96.271970	2.207808
0.005805	2.394576	185.269693	
0.57752	41.411868	96.271970	2.207808
0.005805	1.468853	145.936995	
0.71834	41.411868	96.271970	2.207808
0.005805	0.542966	111.194075	
0.85917	41.411868	96.271970	2.207808
0.005805	0.375922	87.075259	
1.00000	41.411868	96.271970	2.207808
0.005805	1.259880	87.597942	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-52.773209	-143.518271	-2.104773
-0.005444	-2.266913	-184.699352	
0.57752	-52.773209	-143.518271	-2.104773
-0.005444	-1.384063	-125.433511	
0.71834	-52.773209	-143.518271	-2.104773
-0.005444	-0.500479	-83.585278	
0.85917	-52.773209	-143.518271	-2.104773
-0.005444	-0.381101	-52.200683	
1.00000	-52.773209	-143.518271	-2.104773
-0.005444	-1.308036	-30.707484	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	41.411868	96.271970	2.207808
0.005805	2.394576	185.269693	
0.57752	41.411868	96.271970	2.207808
0.005805	1.468853	145.936995	
0.71834	41.411868	96.271970	2.207808
0.005805	0.542966	111.194075	
0.85917	41.411868	96.271970	2.207808
0.005805	0.375922	87.075259	
1.00000	41.411868	96.271970	2.207808
0.005805	1.259880	87.597942	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-52.773209	-143.518271	-2.104773
-0.005444	-2.266913	-184.699352	
0.57752	-52.773209	-143.518271	-2.104773
-0.005444	-1.384063	-125.433511	
0.71834	-52.773209	-143.518271	-2.104773
-0.005444	-0.500479	-83.585278	
0.85917	-52.773209	-143.518271	-2.104773
-0.005444	-0.381101	-52.200683	
1.00000	-52.773209	-143.518271	-2.104773
-0.005444	-1.308036	-30.707484	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 199 ========== LENGTH = 2.977036

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.221268	3.149864	0.326559
0.000506	0.183521	1.767752	
0.14083	16.221268	3.149864	0.326559
0.000506	0.046659	10.349852	
0.28166	16.221268	3.149864	0.326559
0.000506	0.075867	28.062819	
0.42249	16.221268	3.149864	0.326559
0.000506	0.219797	45.926185	
0.56332	16.221268	3.149864	0.326559
0.000506	0.363742	63.830744	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.034587	-42.755390	-0.343332
-0.001220	-0.212079	-12.952767	
0.14083	-2.034587	-42.755390	-0.343332
-0.001220	-0.068213	-13.589025	
0.28166	-2.034587	-42.755390	-0.343332
-0.001220	-0.090286	-14.415236	
0.42249	-2.034587	-42.755390	-0.343332
-0.001220	-0.227203	-15.266301	
0.56332	-2.034587	-42.755390	-0.343332
-0.001220	-0.364097	-16.555583	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.566146	86.326892	0.604939
0.004445	0.384183	81.718719	
0.14083	15.566146	86.326892	0.604939
0.004445	0.131383	66.970816	
0.28166	15.566146	86.326892	0.604939
0.004445	0.101034	60.962483	
0.42249	15.566146	86.326892	0.604939
0.004445	0.284728	79.349331	
0.56332	15.566146	86.326892	0.604939
0.004445	0.468380	103.851394	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-33.174395	-62.306504	-0.438091
-0.006512	-0.266601	-11.990297	
0.14083	-33.174395	-62.306504	-0.438091
-0.006512	-0.087547	-12.678148	
0.28166	-33.174395	-62.306504	-0.438091
-0.006512	-0.145304	-19.534436	
0.42249	-33.174395	-62.306504	-0.438091
-0.006512	-0.378445	-40.394148	
0.56332	-33.174395	-62.306504	-0.438091
-0.006512	-0.631660	-76.299051	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.170080	86.513021	1.012686
0.003349	0.620555	64.016526	
0.14083	14.170080	86.513021	1.012686
0.003349	0.196460	56.656575	
0.28166	14.170080	86.513021	1.012686
0.003349	0.181283	59.712916	
0.42249	14.170080	86.513021	1.012686
0.003349	0.501211	80.027305	
0.56332	14.170080	86.513021	1.012686
0.003349	0.821136	104.599293	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.692557	-61.362771	-0.762978
-0.004718	-0.458351	-11.976130	
0.14083	-25.692557	-61.362771	-0.762978
-0.004718	-0.141403	-22.458197	
0.28166	-25.692557	-61.362771	-0.762978
-0.004718	-0.244014	-38.673333	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42249	-25.692557	-61.362771	-0.762978
-0.004718	-0.654467	-64.449409	
0.56332	-25.692557	-61.362771	-0.762978
-0.004718	-1.078812	-100.500850	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.536137	89.708161	1.336658
0.003374	0.808229	55.807138	
0.14083	26.536137	89.708161	1.336658
0.003374	0.248260	47.510835	
0.28166	26.536137	89.708161	1.336658
0.003374	0.258300	50.724335	
0.42249	26.536137	89.708161	1.336658
0.003374	0.707395	68.407967	
0.56332	26.536137	89.708161	1.336658
0.003374	1.156501	89.534857	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.296297	-52.666702	-1.071189
-0.004096	-0.639993	-22.032343	
0.14083	-24.296297	-52.666702	-1.071189
-0.004096	-0.193408	-35.617604	
0.28166	-24.296297	-52.666702	-1.071189
-0.004096	-0.325404	-53.987593	
0.42249	-24.296297	-52.666702	-1.071189
-0.004096	-0.874090	-80.500640	
0.56332	-24.296297	-52.666702	-1.071189
-0.004096	-1.434289	-116.610397	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.145832	69.088010	0.413639
0.003223	0.278625	77.064492	
0.14083	0.145832	69.088010	0.413639
0.003223	0.105656	61.738321	
0.28166	0.145832	69.088010	0.413639
0.003223	0.051489	46.618119	
0.42249	0.145832	69.088010	0.413639
0.003223	0.135934	51.600676	
0.56332	0.145832	69.088010	0.413639
0.003223	0.220382	61.638403	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.278531	-27.241743	-0.201490
-0.004207	-0.117631	-1.554664	
0.14083	-34.278531	-27.241743	-0.201490
-0.004207	-0.036809	-3.152123	
0.28166	-34.278531	-27.241743	-0.201490
-0.004207	-0.086793	-7.766982	
0.42249	-34.278531	-27.241743	-0.201490
-0.004207	-0.243044	-24.050076	
0.56332	-34.278531	-27.241743	-0.201490
-0.004207	-0.416154	-52.854100	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.907026	93.280876	0.978357
0.003497	0.611661	72.496477	
0.14083	11.907026	93.280876	0.978357
0.003497	0.201707	53.193976	
0.28166	11.907026	93.280876	0.978357
0.003497	0.169162	37.660114	
0.42249	11.907026	93.280876	0.978357
0.003497	0.458649	41.566152	
0.56332	11.907026	93.280876	0.978357
0.003497	0.748148	50.177011	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.723184	-23.476774	-0.690522
-0.003954	-0.409920	-11.387350	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14083	-28.723184	-23.476774	-0.690522
-0.003954	-0.123812	-25.132230	
0.28166	-28.723184	-23.476774	-0.690522
-0.003954	-0.225905	-40.856144	
0.42249	-28.723184	-23.476774	-0.690522
-0.003954	-0.620087	-67.696081	
0.56332	-28.723184	-23.476774	-0.690522
-0.003954	-1.029983	-106.446990	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.734712	102.271744	1.090545
0.002958	0.669937	65.584010	
0.14083	16.734712	102.271744	1.090545
0.002958	0.213224	50.276465	
0.28166	16.734712	102.271744	1.090545
0.002958	0.189688	50.006349	
0.42249	16.734712	102.271744	1.090545
0.002958	0.513126	64.359705	
0.56332	16.734712	102.271744	1.090545
0.002958	0.836552	82.179143	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-37.867803	-44.932630	-0.771650
-0.003781	-0.457614	-14.998225	
0.14083	-37.867803	-44.932630	-0.771650
-0.003781	-0.136613	-24.157681	
0.28166	-37.867803	-44.932630	-0.771650
-0.003781	-0.257344	-49.974900	
0.42249	-37.867803	-44.932630	-0.771650
-0.003781	-0.703065	-83.975779	
0.56332	-37.867803	-44.932630	-0.771650
-0.003781	-1.159928	-126.510311	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.266152	98.610268	1.425935
0.003060	0.864320	58.855085	
0.14083	18.266152	98.610268	1.425935
0.003060	0.266966	41.817732	
0.28166	18.266152	98.610268	1.425935
0.003060	0.270143	41.945412	
0.42249	18.266152	98.610268	1.425935
0.003060	0.726960	54.430063	
0.56332	18.266152	98.610268	1.425935
0.003060	1.183743	69.818466	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-35.570211	-38.749657	-1.089695
-0.003423	-0.254757	-27.962810	
0.14083	-35.570211	-38.749657	-1.089695
-0.003423	-0.188981	-27.943206	
0.28166	-35.570211	-38.749657	-1.089695
-0.003423	-0.342145	-50.931682	
0.42249	-35.570211	-38.749657	-1.089695
-0.003423	-0.930343	-81.755291	
0.56332	-35.570211	-38.749657	-1.089695
-0.003423	-1.527904	-122.818113	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.176137	18.212886	0.804902
0.000912	0.476960	8.507390	
0.14083	2.176137	18.212886	0.804902
0.000912	0.139496	4.269043	
0.28166	2.176137	18.212886	0.804902
0.000912	0.173485	3.578966	
0.42249	2.176137	18.212886	0.804902
0.000912	0.460273	3.695863	
0.56332	2.176137	18.212886	0.804902
0.000912	0.747063	4.122442	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.766332	-2.588064	-0.684053
-0.000439	-0.400120	-7.038856	
0.14083	-7.766332	-2.588064	-0.684053
-0.000439	-0.113331	-7.678667	
0.28166	-7.766332	-2.588064	-0.684053
-0.000439	-0.198035	-8.834818	
0.42249	-7.766332	-2.588064	-0.684053
-0.000439	-0.535433	-15.124615	
0.56332	-7.766332	-2.588064	-0.684053
-0.000439	-0.872893	-22.750129	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.562323	44.718121	1.346825
0.001702	0.798487	12.705021	
0.14083	23.562323	44.718121	1.346825
0.001702	0.233833	3.606056	
0.28166	23.562323	44.718121	1.346825
0.001702	0.289260	2.174730	
0.42249	23.562323	44.718121	1.346825
0.001702	0.776457	3.558203	
0.56332	23.562323	44.718121	1.346825
0.001702	1.263727	5.136448	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.852382	-3.879956	-1.162352
-0.000694	-0.685753	-24.061391	
0.14083	-10.852382	-3.879956	-1.162352
-0.000694	-0.198718	-32.616087	
0.28166	-10.852382	-3.879956	-1.162352
-0.000694	-0.331757	-41.651681	
0.42249	-10.852382	-3.879956	-1.162352
-0.000694	-0.895684	-57.522242	
0.56332	-10.852382	-3.879956	-1.162352
-0.000694	-1.460269	-76.016130	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.141874	57.700581	1.614412
0.001542	0.964678	26.213439	
0.14083	11.141874	57.700581	1.614412
0.001542	0.287736	21.695869	
0.28166	11.141874	57.700581	1.614412
0.001542	0.324723	26.391674	
0.42249	11.141874	57.700581	1.614412
0.001542	0.869691	34.372706	
0.56332	11.141874	57.700581	1.614412
0.001542	1.414683	42.663678	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.777080	-20.077415	-1.299904
-0.000731	-0.765323	-16.529612	
0.14083	-17.777080	-20.077415	-1.299904
-0.000731	-0.220577	-30.747790	
0.28166	-17.777080	-20.077415	-1.299904
-0.000731	-0.390388	-45.711795	
0.42249	-17.777080	-20.077415	-1.299904
-0.000731	-1.066022	-66.986751	
0.56332	-17.777080	-20.077415	-1.299904
-0.000731	-1.742798	-90.983044	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.558441	105.539516	1.531658
0.003447	0.932893	69.532893	
0.14083	11.558441	105.539516	1.531658
0.003447	0.291377	44.718937	
0.28166	11.558441	105.539516	1.531658
0.003447	0.289581	37.506639	
0.42249	11.558441	105.539516	1.531658
0.003447	0.773172	45.901285	
0.56332	11.558441	105.539516	1.531658
0.003447	1.256765	57.752908	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-41.639680	-30.587778	-1.153460
-0.003680	-0.677793	-16.974417	
0.14083	-41.639680	-30.587778	-1.153460
-0.003680	-0.196713	-25.677692	
0.28166	-41.639680	-30.587778	-1.153460
-0.003680	-0.364621	-45.895268	
0.42249	-41.639680	-30.587778	-1.153460
-0.003680	-0.995308	-80.057426	
0.56332	-41.639680	-30.587778	-1.153460
-0.003680	-1.637235	-124.056217	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	37.031760	6.924064	0.386329
0.000491	0.215221	2.498968	
0.14083	37.031760	6.924064	0.386329
0.000491	0.052818	10.961705	
0.28166	37.031760	6.924064	0.386329
0.000491	0.091627	38.010662	
0.42249	37.031760	6.924064	0.386329
0.000491	0.265504	66.170753	
0.56332	37.031760	6.924064	0.386329
0.000491	0.439194	94.538490	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.584415	-68.227975	-0.413904
-0.001326	-0.254414	-39.141251	
0.14083	-3.584415	-68.227975	-0.413904
-0.001326	-0.080161	-11.490314	
0.28166	-3.584415	-68.227975	-0.413904
-0.001326	-0.108338	-12.933973	
0.42249	-3.584415	-68.227975	-0.413904
-0.001326	-0.270596	-15.410233	
0.56332	-3.584415	-68.227975	-0.413904
-0.001326	-0.432722	-18.074821	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	33.745513	90.753209	0.794668
0.004093	0.500438	87.642075	
0.14083	33.745513	90.753209	0.794668
0.004093	0.167214	69.943195	
0.28166	33.745513	90.753209	0.794668
0.004093	0.139069	72.772938	
0.42249	33.745513	90.753209	0.794668
0.004093	0.380725	100.227641	
0.56332	33.745513	90.753209	0.794668
0.004093	0.625558	135.461588	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-41.743725	-87.077548	-0.583710
-0.006963	-0.353266	-23.924406	
0.14083	-41.743725	-87.077548	-0.583710
-0.006963	-0.116270	-10.728927	
0.28166	-41.743725	-87.077548	-0.583710
-0.006963	-0.187446	-17.585870	
0.42249	-41.743725	-87.077548	-0.583710
-0.006963	-0.501327	-41.951329	
0.56332	-41.743725	-87.077548	-0.583710
-0.006963	-0.834177	-78.948013	

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 31.878416 102.129309 1.419799
0.003218 0.865101 71.583494
0.14083 31.878416 102.129309 1.419799
0.003218 0.269417 58.579867
0.28166 31.878416 102.129309 1.419799
0.003218 0.270204 66.730958
0.42249 31.878416 102.129309 1.419799
0.003218 0.741740 94.306879
0.56332 31.878416 102.129309 1.419799
0.003218 1.215270 127.608615
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -36.608113 -81.890200 -1.127845
-0.005228 -0.675321 -22.736108
0.14083 -36.608113 -81.890200 -1.127845
-0.005228 -0.207505 -21.934616
0.28166 -36.608113 -81.890200 -1.127845
-0.005228 -0.340141 -40.093440
0.42249 -36.608113 -81.890200 -1.127845
-0.005228 -0.922131 -73.554859
0.56332 -36.608113 -81.890200 -1.127845
-0.005228 -1.516980 -115.609280

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 41.407050 116.157874 1.854268
0.003250 1.116438 62.680052
0.14083 41.407050 116.157874 1.854268
0.003250 0.338557 49.038859
0.28166 41.407050 116.157874 1.854268
0.003250 0.378986 56.860159
0.42249 41.407050 116.157874 1.854268
0.003250 1.036973 80.846980
0.56332 41.407050 116.157874 1.854268
0.003250 1.696553 109.589406

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -34.948353 -70.646498 -1.572001
-0.004499 -0.938137 -30.693832
0.14083 -34.948353 -70.646498 -1.572001
-0.004499 -0.283528 -39.573766
0.28166 -34.948353 -70.646498 -1.572001
-0.004499 -0.450442 -67.439014
0.42249 -34.948353 -70.646498 -1.572001
-0.004499 -1.216936 -107.381243
0.56332 -34.948353 -70.646498 -1.572001
-0.004499 -1.994071 -154.796405

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.114928 65.450487 0.608520
0.002473 0.390670 74.052456
0.14083 0.114928 65.450487 0.608520
0.002473 0.142423 58.583028
0.28166 0.114928 65.450487 0.608520
0.002473 0.090280 44.862294
0.42249 0.114928 65.450487 0.608520
0.002473 0.234164 48.217825
0.56332 0.114928 65.450487 0.608520
0.002473 0.380667 57.707861

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -42.992531 -25.096859 -0.349076
-0.003762 -0.204644 -1.474873
0.14083 -42.992531 -25.096859 -0.349076
-0.003762 -0.063846 -2.987201
0.28166 -42.992531 -25.096859 -0.349076
-0.003762 -0.127971 -7.696988
0.42249 -42.992531 -25.096859 -0.349076
-0.003762 -0.393076 -24.845718
0.56332 -42.992531 -25.096859 -0.349076
-0.003762 -0.623943 -51.393458

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.119947 107.719337 1.427651
0.002826 0.880912 70.687089
0.14083 12.119947 107.719337 1.427651
0.002826 0.282491 49.746410
0.28166 12.119947 107.719337 1.427651
0.002826 0.270449 33.091177
0.42249 12.119947 107.719337 1.427651
0.002826 0.732197 36.283498
0.56332 12.119947 107.719337 1.427651
0.002826 1.196222 44.273126
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -37.060979 -21.094404 -1.105467
-0.003627 -0.357142 -10.970207
0.14083 -37.060979 -21.094404 -1.105467
-0.003627 -0.198699 -28.867766
0.28166 -37.060979 -21.094404 -1.105467
-0.003627 -0.330528 -51.080185
0.42249 -37.060979 -21.094404 -1.105467
-0.003627 -0.915963 -87.007393
0.56332 -37.060979 -21.094404 -1.105467
-0.003627 -1.514181 -131.437032

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 21.370136 111.747259 1.534302
0.002335 0.933254 62.462386
0.14083 21.370136 111.747259 1.534302
0.002335 0.290604 49.112022
0.28166 21.370136 111.747259 1.534302
0.002335 0.287827 54.509564
0.42249 21.370136 111.747259 1.534302
0.002335 0.781839 73.071496
0.56332 21.370136 111.747259 1.534302
0.002335 1.277149 95.505888

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -44.356169 -55.195127 -1.180072
-0.003404 -0.701011 -16.302356
0.14083 -44.356169 -55.195127 -1.180072
-0.003404 -0.209737 -27.591369
0.28166 -44.356169 -55.195127 -1.180072
-0.003404 -0.362504 -58.122204
0.42249 -44.356169 -55.195127 -1.180072
-0.003404 -0.997817 -98.721610
0.56332 -44.356169 -55.195127 -1.180072
-0.003404 -1.640713 -144.978821

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.902941 116.172432 2.004855
0.002593 1.206889 57.411659
0.14083 22.902941 116.172432 2.004855
0.002593 0.366948 40.908853
0.28166 22.902941 116.172432 2.004855
0.002593 0.404905 46.387488
0.42249 22.902941 116.172432 2.004855
0.002593 1.095460 62.864721
0.56332 22.902941 116.172432 2.004855
0.002593 1.786931 82.651631

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -43.747873 -48.599311 -1.647911
-0.003087 -0.974797 -20.116014
0.14083 -43.747873 -48.599311 -1.647911
-0.003087 -0.286988 -32.849095
0.28166 -43.747873 -48.599311 -1.647911
-0.003087 -0.481622 -66.302682
0.42249 -43.747873 -48.599311 -1.647911
-0.003087 -1.315656 -108.448260
0.56332 -43.747873 -48.599311 -1.647911
-0.003087 -2.155988 -156.653195

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.537130 27.583834 1.141168
0.000955 0.676206 11.920715
0.14083 3.537130 27.583834 1.141168
0.000955 0.197916 4.296879
0.28166 3.537130 27.583834 1.141168
0.000955 0.257068 4.518343
0.42249 3.537130 27.583834 1.141168
0.000955 0.686345 6.258377
0.56332 3.537130 27.583834 1.141168
0.000955 1.115379 8.209385
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.445110 -5.323131 -1.022699
-0.000407 -0.598345 -7.492241
0.14083 -16.445110 -5.323131 -1.022699
-0.000407 -0.169640 -8.376822
0.28166 -16.445110 -5.323131 -1.022699
-0.000407 -0.280426 -15.861732
0.42249 -16.445110 -5.323131 -1.022699
-0.000407 -0.759076 -26.716961
0.56332 -16.445110 -5.323131 -1.022699
-0.000407 -1.237623 -38.110459

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.012180 71.891333 1.905727
0.001668 1.172929 15.827420
0.14083 26.012180 71.891333 1.905727
0.001668 0.328860 3.563721
0.28166 26.012180 71.891333 1.905727
0.001668 0.429678 3.879639
0.42249 26.012180 71.891333 1.905727
0.001668 1.161412 6.361850
0.56332 26.012180 71.891333 1.905727
0.001668 1.892855 9.199174

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.346781 -6.920728 -1.744097
-0.000610 -1.030083 -24.708175
0.14083 -19.346781 -6.920728 -1.744097
-0.000610 -0.299638 -40.008911
0.28166 -19.346781 -6.920728 -1.744097
-0.000610 -0.470205 -65.578981
0.42249 -19.346781 -6.920728 -1.744097
-0.000610 -1.269016 -94.718275
0.56332 -19.346781 -6.920728 -1.744097
-0.000610 -2.068167 -124.779463

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.912147 83.181342 2.308878
0.001386 1.375942 28.937888
0.14083 14.912147 83.181342 2.308878
0.001386 0.406687 20.110383
0.28166 14.912147 83.181342 2.308878
0.001386 0.401922 24.304121
0.42249 14.912147 83.181342 2.308878
0.001386 1.328807 32.379515
0.56332 14.912147 83.181342 2.308878
0.001386 2.164807 40.743609

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -31.584322 -20.601622 -1.992792
-0.000441 -1.174574 -17.214151
0.14083 -31.584322 -20.601622 -1.992792
-0.000441 -0.338979 -35.943479
0.28166 -31.584322 -20.601622 -1.992792
-0.000441 -0.559613 -64.829648
0.42249 -31.584322 -20.601622 -1.992792
-0.000441 -1.528042 -98.481085
0.56332 -31.584322 -20.601622 -1.992792
-0.000441 -2.496088 -133.069047

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.868500 119.625575 2.184049
0.002762 1.319585 67.344604
0.14083 15.868500 119.625575 2.184049
0.002762 0.403678 44.204576
0.28166 15.868500 119.625575 2.184049
0.002762 0.441115 41.616048
0.42249 15.868500 119.625575 2.184049
0.002762 1.185976 52.800885
0.56332 15.868500 119.625575 2.184049
0.002762 1.931644 67.480696
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -53.887610 -36.761459 -1.777628
-0.003077 -1.047631 -17.738792
0.14083 -53.887610 -36.761459 -1.777628
-0.003077 -0.305655 -30.069936
0.28166 -53.887610 -36.761459 -1.777628
-0.003077 -0.562027 -61.822007
0.42249 -53.887610 -36.761459 -1.777628
-0.003077 -1.428351 -105.629476
0.56332 -53.887610 -36.761459 -1.777628
-0.003077 -2.343880 -155.180237

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.536137 105.539516 1.614412
0.004445 0.964678 81.718719
0.14083 26.536137 105.539516 1.614412
0.004445 0.291377 66.970816
0.28166 26.536137 105.539516 1.614412
0.004445 0.324723 60.962483
0.42249 26.536137 105.539516 1.614412
0.004445 0.869691 80.027305
0.56332 26.536137 105.539516 1.614412
0.004445 1.414683 104.599293

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -41.639680 -62.306504 -1.299904
-0.006512 -0.765323 -24.061391
0.14083 -41.639680 -62.306504 -1.299904
-0.006512 -0.220577 -35.617604
0.28166 -41.639680 -62.306504 -1.299904
-0.006512 -0.390388 -53.987593
0.42249 -41.639680 -62.306504 -1.299904
-0.006512 -1.066022 -83.975779
0.56332 -41.639680 -62.306504 -1.299904
-0.006512 -1.742798 -126.510311

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 41.407050 119.625575 2.308878
0.004093 1.375942 87.642075
0.14083 41.407050 119.625575 2.308878
0.004093 0.406687 69.943195
0.28166 41.407050 119.625575 2.308878
0.004093 0.491922 72.772938
0.42249 41.407050 119.625575 2.308878
0.004093 1.328807 100.227641
0.56332 41.407050 119.625575 2.308878
0.004093 2.164807 135.461588

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -53.887610 -87.077548 -1.992792
-0.006963 -1.174574 -30.693832
0.14083 -53.887610 -87.077548 -1.992792
-0.006963 -0.338979 -40.008911
0.28166 -53.887610 -87.077548 -1.992792
-0.006963 -0.559613 -67.439014
0.42249 -53.887610 -87.077548 -1.992792
-0.006963 -1.528042 -108.448260
0.56332 -53.887610 -87.077548 -1.992792
-0.006963 -2.496088 -156.653195

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 41.407050 119.625575 2.308878
0.004445 1.375942 87.642075
0.14083 41.407050 119.625575 2.308878
0.004445 0.406687 69.943195
0.28166 41.407050 119.625575 2.308878
0.004445 0.491922 72.772938
0.42249 41.407050 119.625575 2.308878
0.004445 1.328807 100.227641
0.56332 41.407050 119.625575 2.308878
0.004445 2.164807 135.461588
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -53.887610 -87.077548 -1.992792
-0.006963 -1.174574 -30.693832
0.14083 -53.887610 -87.077548 -1.992792
-0.006963 -0.338979 -40.008911
0.28166 -53.887610 -87.077548 -1.992792
-0.006963 -0.559613 -67.439014
0.42249 -53.887610 -87.077548 -1.992792
-0.006963 -1.528042 -108.448260
0.56332 -53.887610 -87.077548 -1.992792
-0.006963 -2.496088 -156.653195

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 41.407050 119.625575 2.308878
0.004445 1.375942 87.642075
0.14083 41.407050 119.625575 2.308878
0.004445 0.406687 69.943195
0.28166 41.407050 119.625575 2.308878
0.004445 0.491922 72.772938
0.42249 41.407050 119.625575 2.308878
0.004445 1.328807 100.227641
0.56332 41.407050 119.625575 2.308878
0.004445 2.164807 135.461588

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -53.887610 -87.077548 -1.992792
-0.006963 -1.174574 -30.693832
0.14083 -53.887610 -87.077548 -1.992792
-0.006963 -0.338979 -40.008911
0.28166 -53.887610 -87.077548 -1.992792
-0.006963 -0.559613 -67.439014
0.42249 -53.887610 -87.077548 -1.992792
-0.006963 -1.528042 -108.448260
0.56332 -53.887610 -87.077548 -1.992792
-0.006963 -2.496088 -156.653195

ELEM 200 ========== LENGTH = 2.977628

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 19.458068 2.580184 0.357399
0.000967 0.370533 5.180535
0.57744 19.458068 2.580184 0.357399
0.000967 0.220682 4.102757
0.71829 19.458068 2.580184 0.357399
0.000967 0.070947 3.033452
0.85915 19.458068 2.580184 0.357399
0.000967 0.079749 1.999414
1.00000 19.458068 2.580184 0.357399
0.000967 0.230341 1.155094

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -2.508725 -37.448066 -0.359082
-0.000969 -0.372068 -70.826129
0.57744 -2.508725 -37.448066 -0.359082
-0.000969 -0.221550 -55.120333
0.71829 -2.508725 -37.448066 -0.359082
-0.000969 -0.071131 -39.480689
0.85915 -2.508725 -37.448066 -0.359082
-0.000969 -0.079242 -23.877880
1.00000 -2.508725 -37.448066 -0.359082
-0.000969 -0.229150 -8.507884

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 19.083782 25.550485 0.512096
0.004837 0.530365 41.363435
0.57744 19.083782 25.550485 0.512096
0.004837 0.317366 30.686641
0.71829 19.083782 25.550485 0.512096
0.004837 0.104369 23.201035
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85915 19.083782 25.550485 0.512096
0.004837 0.125606 39.493687
1.00000 19.083782 25.550485 0.512096
0.004837 0.340785 58.973800

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -34.914512 -95.884659 -0.513812
-0.004838 -0.535256 -114.415915
0.57744 -34.914512 -95.884659 -0.513812
-0.004838 -0.320298 -74.385916
0.71829 -34.914512 -95.884659 -0.513812
-0.004838 -0.105336 -43.532594
0.85915 -34.914512 -95.884659 -0.513812
-0.004838 -0.125288 -24.739312
1.00000 -34.914512 -95.884659 -0.513812
-0.004838 -0.339655 -14.579649

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 17.112877 38.658854 0.902226
0.003864 0.942848 67.155449
0.57744 17.112877 38.658854 0.902226
0.003864 0.565651 50.942398
0.71829 17.112877 38.658854 0.902226
0.003864 0.188400 36.860656
0.85915 17.112877 38.658854 0.902226
0.003864 0.201180 38.880828
1.00000 17.112877 38.658854 0.902226
0.003864 0.581876 41.956335

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -27.451224 -70.096117 -0.908324
-0.003866 -0.951468 -90.383951
0.57744 -27.451224 -70.096117 -0.908324
-0.003866 -0.570866 -61.109928
0.71829 -27.451224 -70.096117 -0.908324
-0.003866 -0.190182 -37.679471
0.85915 -27.451224 -70.096117 -0.908324
-0.003866 -0.200031 -22.395805
1.00000 -27.451224 -70.096117 -0.908324
-0.003866 -0.578151 -11.709299

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 32.230559 50.419446 1.261942
0.003544 1.319650 82.883253
0.57744 32.230559 50.419446 1.261942
0.003544 0.791381 61.954934
0.71829 32.230559 50.419446 1.261942
0.003544 0.263061 43.388183
0.85915 32.230559 50.419446 1.261942
0.003544 0.276788 39.075344
1.00000 32.230559 50.419446 1.261942
0.003544 0.810630 36.414533

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -26.326281 -59.432960 -1.273346
-0.003548 -1.333467 -77.546905
0.57744 -26.326281 -59.432960 -1.273346
-0.003548 -0.799705 -52.723702
0.71829 -26.326281 -59.432960 -1.273346
-0.003548 -0.265885 -32.749452
0.85915 -26.326281 -59.432960 -1.273346
-0.003548 -0.274521 -19.958997
1.00000 -26.326281 -59.432960 -1.273346
-0.003548 -0.803557 -17.781533

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 0.156518 26.060785 0.282533
0.003324 0.296045 44.966157
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57744 0.156518 26.060785 0.282533
0.003324 0.179057 34.065413
0.71829 0.156518 26.060785 0.282533
0.003324 0.062146 25.829620
0.85915 0.156518 26.060785 0.282533
0.003324 0.068771 37.504077
1.00000 0.156518 26.060785 0.282533
0.003324 0.187963 53.009636

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -37.161180 -52.732860 -0.284341
-0.003324 -0.300712 -39.611559
0.57744 -37.161180 -52.732860 -0.284341
-0.003324 -0.181895 -18.123769
0.71829 -37.161180 -52.732860 -0.284341
-0.003324 -0.063089 -4.169242
0.85915 -37.161180 -52.732860 -0.284341
-0.003324 -0.068659 -0.216617
1.00000 -37.161180 -52.732860 -0.284341
-0.003324 -0.187077 -5.311022

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 14.371480 53.589919 0.845089
0.003469 0.887200 86.147145
0.57744 14.371480 53.589919 0.845089
0.003469 0.534141 63.886034
0.71829 14.371480 53.589919 0.845089
0.003469 0.181069 44.827619
0.85915 14.371480 53.589919 0.845089
0.003469 0.185949 45.300032
1.00000 14.371480 53.589919 0.845089
0.003469 0.543627 47.634590

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -30.521336 -39.632135 -0.852854
-0.003470 -0.897969 -27.416874
0.57744 -30.521336 -39.632135 -0.852854
-0.003470 -0.540675 -10.929885
0.71829 -30.521336 -39.632135 -0.852854
-0.003470 -0.183339 -1.129231
0.85915 -30.521336 -39.632135 -0.852854
-0.003470 -0.184641 -1.216931
1.00000 -30.521336 -39.632135 -0.852854
-0.003470 -0.539006 -11.298759

COMB DB-G2-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.003146	20.192519	0.995784	59.095659	104.183267	0.951070
0.57744	0.003146	20.192519	0.597879	59.095659	79.699875	0.951070
0.71829	0.003146	20.192519	0.199930	59.095659	57.633392	0.951070
0.85915	0.003146	20.192519	0.208498	59.095659	49.606737	0.951070
1.00000	0.003146	20.192519	0.610582	59.095659	43.038991	0.951070

COMB DB-G2-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.003145	-41.891047	-1.000739	-48.779591	-56.295819	-0.958748
0.57744	-0.003145	-41.891047	-0.603941	-48.779591	-36.004120	-0.958748
0.71829	-0.003145	-41.891047	-0.202080	-48.779591	-20.485756	-0.958748
0.85915	-0.003145	-41.891047	-0.207155	-48.779591	-12.190191	-0.958748
1.00000	-0.003145	-41.891047	-0.605939	-48.779591	-12.372014	-0.958748

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2248

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.002967	21.785598	1.391105	59.424061	106.399752	1.329546
0.57744	0.002967	21.785598	0.834305	59.424061	81.732803	1.329546
0.71829	0.002967	21.785598	0.277468	59.424061	58.987562	1.329546
0.85915	0.002967	21.785598	0.289531	59.424061	47.877853	1.329546
1.00000	0.002967	21.785598	0.852703	59.424061	38.112311	1.329546

COMB DB-G2-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.002970	-39.696631	-1.406696	-42.075859	-49.802033	-1.342831
0.57744	-0.002970	-39.696631	-0.843760	-42.075859	-32.252547	-1.342831
0.71829	-0.002970	-39.696631	-0.280770	-42.075859	-18.701523	-1.342831
0.85915	-0.002970	-39.696631	-0.287020	-42.075859	-11.105417	-1.342831
1.00000	-0.002970	-39.696631	-0.844555	-42.075859	-12.546422	-1.342831

COMB DB-G3-1 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.000533	2.634624	27.143859	13.984448	0.834948	0.834948
0.57744	0.000533	2.634624	0.521967	13.984448	21.294946	0.834948
0.71829	0.000533	2.634624	0.171785	13.984448	15.454179	0.834948
0.85915	0.000533	2.634624	0.180565	13.984448	9.802739	0.834948
1.00000	0.000533	2.634624	0.535278	13.984448	4.213005	0.834948

COMB DB-G3-1 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.000538	-9.330255	-0.883590	-2.582527	-4.716685	-0.845749
0.57744	-0.000538	-9.330255	-0.528877	-2.582527	-3.702953	-0.845749
0.71829	-0.000538	-9.330255	-0.174164	-2.582527	-2.698461	-0.845749
0.85915	-0.000538	-9.330255	-0.181412	-2.582527	-1.772663	-0.845749
1.00000	-0.000538	-9.330255	-0.528596	-2.582527	-1.186248	-0.845749

COMB DB-G3-2 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.001024	28.675197	1.448582	43.116563	66.540573	1.384769
0.57744	0.001024	28.675197	0.867857	43.116563	48.786967	1.384769
0.71829	0.001024	28.675197	0.287133	43.116563	32.417837	1.384769
0.85915	0.001024	28.675197	0.297588	43.116563	19.103021	1.384769
1.00000	0.001024	28.675197	0.885561	43.116563	7.169463	1.384769

COMB DB-G3-2 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.001031	-12.863101	-1.466751	-4.935568	-7.738329	-1.401898
0.57744	-0.001031	-12.863101	-0.878801	-4.935568	-5.673895	-1.401898
0.71829	-0.001031	-12.863101	-0.290842	-4.935568	-3.885803	-1.401898
0.85915	-0.001031	-12.863101	-0.294109	-4.935568	-3.665324	-1.401898
1.00000	-0.001031	-12.863101	-0.874897	-4.935568	-12.954733	-1.401898

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2249

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.001264	13.627273	1.653338	49.531279	86.783970	1.577160
0.57744	0.001264	13.627273	0.991952	49.531279	66.196470	1.577160
0.71829	0.001264	13.627273	0.330518	49.531279	46.420615	1.577160
0.85915	0.001264	13.627273	0.335201	49.531279	28.780314	1.577160
1.00000	0.001264	13.627273	1.004399	49.531279	11.871328	1.577160

COMB DB-G3-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.001271	-21.127048	-1.672941	-5.922774	-7.976685	-1.595488
0.57744	-0.001271	-21.127048	-1.003803	-5.922774	-5.501561	-1.595488
0.71829	-0.001271	-21.127048	-0.334635	-5.922774	-3.481564	-1.595488
0.85915	-0.001271	-21.127048	-0.331633	-5.922774	-2.696038	-1.595488
1.00000	-0.001271	-21.127048	-0.993099	-5.922774	-6.417481	-1.595488

COMB DB-G3-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.003184	13.883503	1.494287	65.817371	119.271218	1.428384
0.57744	0.003184	13.883503	0.896177	65.817371	91.821278	1.428384
0.71829	0.003184	13.883503	0.298071	65.817371	66.617482	1.428384
0.85915	0.003184	13.883503	0.311711	55.089684	55.089684	1.428384
1.00000	0.003184	13.883503	0.917191	65.817371	44.935772	1.428384

COMB DB-G3-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.003189	-47.036746	-1.572340	-38.746082	-38.590841	-1.443676
0.57744	-0.003189	-47.036746	-0.907132	-38.746082	-22.493150	-1.443676
0.71829	-0.003189	-47.036746	-0.301897	-38.746082	-11.097448	-1.443676
0.85915	-0.003189	-47.036746	-0.308901	-38.746082	-6.675479	-1.443676
1.00000	-0.003189	-47.036746	-0.907935	-38.746082	-9.581578	-1.443676

COMB DL-G1-1 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.001013	46.309648	0.462763	5.292105	10.559126	0.447274
0.57744	0.001013	46.309648	0.275277	5.292105	8.348733	0.447274
0.71829	0.001013	46.309648	0.087549	5.292105	6.152743	0.447274
0.85915	0.001013	46.309648	0.100855	5.292105	4.001299	0.447274
1.00000	0.001013	46.309648	0.294077	5.292105	1.992607	0.447274

COMB DL-G1-1 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.001063	-4.459572	-0.477795	-80.170164	-154.362288	-0.460391
0.57744	-0.001063	-4.459572	-0.284366	-80.170164	-120.747157	-0.460391
0.71829	-0.001063	-4.459572	-0.090775	-80.170164	-87.146672	-0.460391
0.85915	-0.001063	-4.459572	-0.100129	-80.170164	-53.578151	-0.460391
1.00000	-0.001063	-4.459572	-0.287881	-80.170164	-20.255965	-0.460391

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2250

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.004385	42.408381	0.722422	28.762716	50.836516	0.702970
0.57744	0.004385	42.408381	0.431236	28.762716	39.585607	0.702970
0.71829	0.004385	42.408381	0.143719	28.762716	33.766670	0.702970
0.85915	0.004385	42.408381	0.172268	28.762716	52.532479	0.702970
1.00000	0.004385	42.408381	0.480527	28.762716	74.146274	0.702970

COMB DL-G1-2 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.004436	-46.364329	-0.757264	-148.592774	-201.593552	-0.734479
0.57744	-0.004436	-46.364329	-0.451484	-148.592774	-139.905501	-0.734479
0.71829	-0.004436	-46.364329	-0.148770	-148.592774	-89.154158	-0.734479
0.85915	-0.004436	-46.364329	-0.166962	-148.592774	-54.768815	-0.734479
1.00000	-0.004436	-46.364329	-0.462178	-148.592774	-24.689649	-0.734479

COMB DL-G1-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.003607	39.707329	1.374197	61.864549	111.098848	1.318135
0.57744	0.003607	39.707329	0.823880	61.864549	85.693321	1.318135
0.71829	0.003607	39.707329	0.276126	61.864549	64.096444	1.318135
0.85915	0.003607	39.707329	0.294342	59.804346	59.804346	1.318135
1.00000	0.003607	39.707329	0.867542	61.864549	57.040247	1.318135

COMB DL-G1-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.003654	-41.904828	-1.422577	-118.289442	-169.626950	-1.363298
0.57744	-0.003654	-41.904828	-0.852073	-118.289442	-120.428909	-1.363298
0.71829	-0.003654	-41.904828	-0.281568	-118.289442	-74.615916	-1.363298
0.85915	-0.003654	-41.904828	-0.287959	-118.289442	-47.577575	-1.363298
1.00000	-0.003654	-41.904828	-0.841028	-118.289442	-21.674410	-1.363298

COMB DL-G1-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.003301	51.245836	1.892741	88.467146	150.466855	1.812620
0.57744	0.003301	51.245836	1.134541	88.467146	113.832012	1.812620
0.71829	0.003301	51.245836	0.378576	88.467146	80.413588	1.812620
0.85915	0.003301	51.245836	0.398342	88.467146	62.396206	1.812620
1.00000	0.003301	51.245836	1.181642	88.467146	49.829167	1.812620

COMB DL-G1-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.003343	-40.269199	-1.947893	-100.676823	-145.826101	-1.864193
0.57744	-0.003343	-40.269199	-1.166989	-100.676823	-103.944752	-1.864193
0.71829	-0.003343	-40.269199	-0.387159	-100.676823	-68.482205	-1.864193
0.85915	-0.003343	-40.269199	-0.390790	-100.676823	-41.676269	-1.864193
1.00000	-0.003343	-40.269199	-1.151476	-100.676823	-26.107541	-1.864193

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2251

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.002452	0.111366	0.472321	28.671875	55.312338	0.452779
0.57744	0.002452	0.111366	0.284823	28.671875	43.949762	0.452779
0.71829	0.002452	0.111366	0.099830	28.671875	36.479817	0.452779
0.85915	0.002452	0.111366	0.106026	28.671875	46.480896	0.452779
1.00000	0.002452	0.111366	0.305044	28.671875	59.891157	0.452779

COMB DL-G2-1 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.002452	-49.896091	-0.495379	-54.892938	-41.947384	-0.474903
0.57744	-0.002452	-49.896091	-0.297761	-54.892938	-19.461982	-0.474903
0.71829	-0.002452	-49.896091	-0.102505	-54.892938	-4.697791	-0.474903
0.85915	-0.002452	-49.896091	-0.100408	-54.892938	-0.222971	-0.474903
1.00000	-0.002452	-49.896091	-0.290587	-54.892938	-4.452339	-0.474903

COMB DL-G2-2 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.002654	14.498577	1.353898	82.872240	141.651341	1.291560
0.57744	0.002654	14.498577	0.814585	82.872240	107.401558	1.291560
0.71829	0.002654	14.498577	0.277412	82.872240	76.799208	1.291560
0.85915	0.002654	14.498577	0.281116	82.872240	63.915680	1.291560
1.00000	0.002654	14.498577	0.839698	82.872240	55.423105	1.291560

COMB DL-G2-2 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.002655	-42.849666	-1.393900	-42.598607	-29.426462	-1.329681
0.57744	-0.002655	-42.849666	-0.837600	-42.598607	-11.948572	-1.329681
0.71829	-0.002655	-42.849666	-0.282105	-42.598607	-1.750858	-1.329681
0.85915	-0.002655	-42.849666	-0.274361	-42.598607	-1.529774	-1.329681
1.00000	-0.002655	-42.849666	-0.816186	-42.598607	-10.629551	-1.329681

COMB DL-G2-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.002431	25.996338	1.454172	88.439617	158.784515	1.389171
0.57744	0.002431	25.996338	0.871192	88.439617	122.065432	1.389171
0.71829	0.002431	25.996338	0.293601	88.439617	87.762154	1.389171
0.85915	0.002431	25.996338	0.304612	88.439617	65.418120	1.389171
1.00000	0.002431	25.996338	0.907975	88.439617	47.267919	1.389171

COMB DL-G2-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.002431	-52.626621	-1.503838	-67.800892	-90.609570	-1.436574
0.57744	-0.002431	-52.626621	-0.901903	-67.800892	-62.476958	-1.436574
0.71829	-0.002431	-52.626621	-0.300686	-67.800892	-39.109847	-1.436574
0.85915	-0.002431	-52.626621	-0.296193	-67.800892	-22.536183	-1.436574
1.00000	-0.002431	-52.626621	-0.868815	-67.800892	-14.059693	-1.436574

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2252

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.002360	27.610952	2.017798	97.802611	175.581040	1.928425
0.57744	0.002360	27.610952	1.210299	97.802611	134.884615	1.928425
0.71829	0.002360	27.610952	0.402799	97.802611	96.721539	1.928425
0.85915	0.002360	27.610952	0.420368	97.802611	67.366753	1.928425
1.00000	0.002360	27.610952	1.254412	97.802611	43.161948	1.928425

COMB DL-G2-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.002362	-51.924608	-2.077282	-59.276748	-81.100522	-1.985446
0.57744	-0.002362	-51.924608	-1.244939	-59.276748	-56.491505	-1.985446
0.71829	-0.002362	-51.924608	-0.412950	-59.276748	-35.882174	-1.985446
0.85915	-0.002362	-51.924608	-0.410354	-59.276748	-20.875763	-1.985446
1.00000	-0.002362	-51.924608	-1.219567	-59.276748	-14.409498	-1.985446

COMB DL-G3-1 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.000519	4.314877	1.259454	27.177983	53.561564	1.204928
0.57744	0.000519	4.314877	0.754075	27.177983	42.172236	1.204928
0.71829	0.000519	4.314877	0.248786	27.177983	30.796686	1.204928
0.85915	0.000519	4.314877	0.261757	27.177983	19.627838	1.204928
1.00000	0.000519	4.314877	0.780355	27.177983	8.911587	1.204928

COMB DL-G3-1 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.000524	-19.891017	-1.289275	-5.974543	-10.418831	-1.234170
0.57744	-0.000524	-19.891017	-0.771632	-5.974543	-8.080146	-1.234170
0.71829	-0.000524	-19.891017	-0.253225	-5.974543	-5.759571	-1.234170
0.85915	-0.000524	-19.891017	-0.256120	-5.974543	-3.569399	-1.234170
1.00000	-0.000524	-19.891017	-0.761977	-5.974543	-1.938943	-1.234170

COMB DL-G3-2 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.000918	31.641481	2.098460	82.569287	136.283457	2.005378
0.57744	0.000918	31.641481	1.257398	82.569287	101.669083	2.005378
0.71829	0.000918	31.641481	0.416613	82.569287	67.304187	2.005378
0.85915	0.000918	31.641481	0.431696	82.569287	36.265912	2.005378
1.00000	0.000918	31.641481	1.292413	82.569287	11.475491	2.005378

COMB DL-G3-2 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.000924	-23.090723	-2.143951	-8.102759	-14.492216	-2.048923
0.57744	-0.000924	-23.090723	-1.284479	-8.102759	-11.104871	-2.048923
0.71829	-0.000924	-23.090723	-0.424051	-8.102759	-7.946799	-2.048923
0.85915	-0.000924	-23.090723	-0.424407	-8.102759	-6.008462	-2.048923
1.00000	-0.000924	-23.090723	-1.265969	-8.102759	-14.090184	-2.048923

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2253

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.000974	18.073103	1.430887	93.432380	167.950201	2.317304
0.57744	0.000974	18.073103	1.458996	93.432380	128.775553	2.317304
0.71829	0.000974	18.073103	0.486750	93.432380	89.681048	2.317304
0.85915	0.000974	18.073103	0.494336	93.432380	52.097778	2.317304
1.00000	0.000974	18.073103	1.492332	93.432380	17.983525	2.317304

COMB DL-G3-3 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.000981	-39.076458	-2.490282	-8.040808	-14.347131	-2.375078
0.57744	-0.000981	-39.076458	-1.493640	-8.040808	-10.988459	-2.375078
0.71829	-0.000981	-39.076458	-0.495839	-8.040808	-7.649174	-2.375078
0.85915	-0.000981	-39.076458	-0.484021	-8.040808	-4.902034	-2.375078
1.00000	-0.000981	-39.076458	-1.456669	-8.040808	-8.047219	-2.375078

COMB DL-G3-4 ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.002353	19.132860	2.193141	101.167189	185.888676	2.095124
0.57744	0.002353	19.132860	1.315929	101.167189	143.799549	2.095124
0.71829	0.002353	19.132860	0.440018	101.167189	103.935997	2.095124
0.85915	0.002353	19.132860	0.456213	101.167189	75.049535	2.095124
1.00000	0.002353	19.132860	1.361879	101.167189	50.285202	2.095124

COMB DL-G3-4 ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.002358	-64.244602	-2.256813	-47.731721	-56.249212	-2.156484
0.57744	-0.002358	-64.244602	-1.352846	-47.731721	-36.511749	-2.156484
0.71829	-0.002358	-64.244602	-0.449174	-47.731721	-21.148193	-2.156484
0.85915	-0.002358	-64.244602	-0.444351	-47.731721	-12.025868	-2.156484
1.00000	-0.002358	-64.244602	-1.323607	-47.731721	-10.910845	-2.156484

COMB DB ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.004837	32.230559	1.655338	65.817371	119.271218	1.577160
0.57744	0.004837	32.230559	0.991952	65.817371	91.821278	1.577160
0.71829	0.004837	32.230559	0.330518	65.817371	66.617482	1.577160
0.85915	0.004837	32.230559	0.335201	65.817371	55.089684	1.577160
1.00000	0.004837	32.230559	1.004399	65.817371	58.973800	1.577160

COMB DB ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.004838	-47.036746	-1.672941	-95.884659	-114.415915	-1.595488
0.57744	-0.004838	-47.036746	-1.003803	-95.884659	-74.385916	-1.595488
0.71829	-0.004838	-47.036746	-0.334635	-95.884659	-43.532594	-1.595488
0.85915	-0.004838	-47.036746	-0.331633	-95.884659	-24.739312	-1.595488
1.00000	-0.004838	-47.036746	-0.993099	-95.884659	-17.781533	-1.595488

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2254

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.004385	51.245836	2.430887	101.167189	185.888676	2.317304
0.57744	0.004385	51.245836	1.458996	101.167189	143.799549	2.317304
0.71829	0.004385	51.245836	0.486750	101.167189	103.935997	2.317304
0.85915	0.004385	51.245836	0.494336	101.167189	75.049535	2.317304
1.00000	0.004385	51.245836	1.492332	101.167189	74.146274	2.317304

COMB DL ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.43659	-0.004436	-64.244602	-2.490282	-148.592774	-201.593552	-2.375078
0.57744	-0.004436	-64.244602	-1.493640	-148.592774	-139.905501	-2.375078
0.71829	-0.004436	-64.244602	-0.495839	-148.592774	-89.154158	-2.375078
0.85915	-0.004436	-64.244602	-0.484021	-148.592774	-53.578151	-2.375078
1.00000	-0.004436	-64.244602	-1.456669	-148.592774	-26.107541	-2.375078

COMB CAR ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.43659	0.004837	51.245836	2.430887	101.167189	185.888676	2.317304
0.57744	0.004837	51.245836	1.458996	101.167189	143.799549	2.317304
0.71829	0.004837	51.245836	0.486750	101.167189	103.935997	2.317304
0.85915	0.004837	51.245836	0.494336	101.167189	75.049535	2.317304

```
 0.004837    0.494336   75.049535
 1.00000    51.245836  101.167189     2.317304
 0.004837    1.492332   74.146274

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43659   -64.244602 -148.592774    -2.375078
-0.004838   -2.490282 -201.593552
0.57744   -64.244602 -148.592774    -2.375078
-0.004838   -1.493640 -139.905501
0.71829   -64.244602 -148.592774    -2.375078
-0.004838   -0.495839  -89.154158
0.85915   -64.244602 -148.592774    -2.375078
-0.004838   -0.484021  -53.578151
1.00000   -64.244602 -148.592774    -2.375078
-0.004838   -1.456669  -26.107541

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43659    51.245836  101.167189     2.317304
 0.004837    2.430887  185.888876
0.57744    51.245836  101.167189     2.317304
 0.004837    1.458996  143.799549
0.71829    51.245836  101.167189     2.317304
 0.004837    0.486750  103.935997
0.85915    51.245836  101.167189     2.317304
 0.004837    0.494336   75.049535
1.00000    51.245836  101.167189     2.317304
 0.004837    1.492332   74.146274

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43659   -64.244602 -148.592774    -2.375078
-0.004838   -2.490282 -201.593552
0.57744   -64.244602 -148.592774    -2.375078
-0.004838   -1.493640 -139.905501
0.71829   -64.244602 -148.592774    -2.375078
-0.004838   -0.495839  -89.154158
0.85915   -64.244602 -148.592774    -2.375078
-0.004838   -0.484021  -53.578151
1.00000   -64.244602 -148.592774    -2.375078
-0.004838   -1.456669  -26.107541
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2255

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      201 ================ LENGTH
=     2.977688

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   19.429992   2.621738     0.341404
 0.000882    0.211092   1.152536
0.14085   19.429992   2.621738     0.341404
 0.000882    0.067917   7.599821
0.28171   19.429992   2.621738     0.341404
 0.000882    0.075723  23.188721
0.42256   19.429992   2.621738     0.341404
 0.000882    0.218678  38.804206
0.56342   19.429992   2.621738     0.341404
 0.000882    0.361883  54.422461

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -2.508472  -37.237973    -0.341439
-0.000885   -0.210971   -8.498027
0.14085   -2.508472  -37.237973    -0.341439
-0.000885   -0.067782   -0.336900
0.28171   -2.508472  -37.237973    -0.341439
-0.000885   -0.075527   -1.343666
0.42256   -2.508472  -37.237973    -0.341439
-0.000885   -0.218514   -2.423574
0.56342   -2.508472  -37.237973    -0.341439
-0.000885   -0.361706   -3.518674

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   19.044836  62.497033     0.516094
 0.004727    0.336155  58.972365
0.14085   19.044836  62.497033     0.516094
 0.004727    0.120341  45.759819
0.28171   19.044836  62.497033     0.516094
 0.004727    0.111667  42.142828
0.42256   19.044836  62.497033     0.516094
 0.004727    0.330147  63.330994
0.56342   19.044836  62.497033     0.516094
 0.004727    0.548580  87.098664

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -40.656113  -57.047152    -0.520772
-0.004722   -0.338246  -14.613465
0.14085  -40.656113  -57.047152    -0.520772
-0.004722   -0.121117   -2.685074
0.28171  -40.656113  -57.047152    -0.520772
-0.004722   -0.110715   -2.918770
0.42256  -40.656113  -57.047152    -0.520772
-0.004722   -0.327215  -23.071463
0.56342  -40.656113  -57.047152    -0.520772
-0.004722   -0.543689  -48.449388

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   17.077487  64.276191     0.921890
 0.003428    0.425425  41.965058
0.14085   17.077487  64.276191     0.921890
 0.003428    0.201283  28.867528
0.28171   17.077487  64.276191     0.921890
 0.003428    0.197079  28.437560
0.42256   17.077487  64.276191     0.921890
 0.003428    0.587099  44.920070
0.56342   17.077487  64.276191     0.921890
 0.003428    0.977054  63.158867

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -31.415584  -43.748694    -0.929740
-0.003424   -0.591657  -11.729295
0.14085  -31.415584  -43.748694    -0.929740
-0.003424   -0.202690   -6.981164
0.28171  -31.415584  -43.748694    -0.929740
-0.003424   -0.195332  -16.619386
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2256

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42256  -31.415584  -43.748694    -0.929740
-0.003424   -0.582172  -39.516947
0.56342  -31.415584  -43.748694    -0.929740
-0.003424   -0.968798  -65.926024

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   32.211991  71.558457     1.263124
 0.003272    0.797972  36.425461
0.14085   32.211991  71.558457     1.263124
 0.003272    0.268600  24.085235
0.28171   32.211991  71.558457     1.263124
 0.003272    0.272185  24.263938
0.42256   32.211991  71.558457     1.263124
 0.003272    0.807395  38.482036
0.56342   32.211991  71.558457     1.263124
 0.003272    1.342524  54.158668

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -29.636930  -37.594961    -1.275867
-0.003266   -0.805386  -17.799960
0.14085  -29.636930  -37.594961    -1.275867
-0.003266   -0.271078  -21.078780
0.28171  -29.636930  -37.594961    -1.275867
-0.003266   -0.269448  -36.295706
0.42256  -29.636930  -37.594961    -1.275867
-0.003266   -0.799372  -62.515011
0.56342  -29.636930  -37.594961    -1.275867
-0.003266   -1.329135  -91.649527

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.155627  57.295311     0.313833
 0.003065    0.211580  53.012771
0.14085    0.155627  57.295311     0.313833
 0.003065    0.080372  37.534440
0.28171    0.155627  57.295311     0.313833
 0.003065    0.064245  22.973697
0.42256    0.155627  57.295311     0.313833
 0.003065    0.198023  29.122643
0.56342    0.155627  57.295311     0.313833
 0.003065    0.331762  37.430491

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -41.993395  -20.125761    -0.318890
-0.003065   -0.214211   -5.350537
0.14085  -41.993395  -20.125761    -0.318890
-0.003065   -0.081458   -2.117301
0.28171  -41.993395  -20.125761    -0.318890
-0.003065   -0.063336   -4.321407
0.42256  -41.993395  -20.125761    -0.318890
-0.003065   -0.195000  -23.277396
0.56342  -41.993395  -20.125761    -0.318890
-0.003065   -0.326631  -46.572187

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   14.381160  82.713646     0.879724
 0.003048    0.565660  47.649310
0.14085   14.381160  82.713646     0.879724
 0.003048    0.197097  23.927632
0.28171   14.381160  82.713646     0.879724
 0.003048    0.185282   6.624502
0.42256   14.381160  82.713646     0.879724
 0.003048    0.558861   8.603261
0.56342   14.381160  82.713646     0.879724
 0.003048    0.932254  12.593446

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -35.074365   -9.808135    -0.890281
-0.003049   -0.571550  -11.337850
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2257

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.14085  -35.074365   -9.808135    -0.890281
-0.003049   -0.199160  -19.019421
0.28171  -35.074365   -9.808135    -0.890281
-0.003049   -0.183189  -33.883439
0.42256  -35.074365   -9.808135    -0.890281
-0.003049   -0.552283  -63.917770
0.56342  -35.074365   -9.808135    -0.890281
-0.003049   -0.921228  -97.971560

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   20.176190  80.422891     0.975215
 0.002880    0.619916  43.055702
0.14085   20.176190  80.422891     0.975215
 0.002880    0.211203  24.281923
0.28171   20.176190  80.422891     0.975215
 0.002880    0.208212  20.075476
0.42256   20.176190  80.422891     0.975215
 0.002880    0.621488  29.905535
0.56342   20.176190  80.422891     0.975215
 0.002880    1.034652  41.235318

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -45.174363  -27.329307    -0.985396
-0.002878   -0.625761  -12.391137
0.14085  -45.174363  -27.329307    -0.985396
-0.002878   -0.213317  -17.027845
0.28171  -45.174363  -27.329307    -0.985396
-0.002878   -0.206219  -35.261052
0.42256  -45.174363  -27.329307    -0.985396
-0.002878   -0.615140  -65.349531
0.56342  -45.174363  -27.329307    -0.985396
-0.002878   -1.023990  -98.627177

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   21.773752  77.375989     1.326240
 0.002840    0.835929  38.129697
0.14085   21.773752  77.375989     1.326240
 0.002840    0.279940  20.239022
0.28171   21.773752  77.375989     1.326240
 0.002840    0.286444  17.238301
0.42256   21.773752  77.375989     1.326240
 0.002840    0.849263  25.997337
0.56342   21.773752  77.375989     1.326240
 0.002840    1.411976  36.012401

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -42.467801  -24.144252    -1.341905
-0.002833   -0.845429  -12.562550
0.14085  -42.467801  -24.144252    -1.341905
-0.002833   -0.283265  -18.718267
0.28171  -42.467801  -24.144252    -1.341905
-0.002833   -0.283311  -36.218235
0.42256  -42.467801  -24.144252    -1.341905
-0.002833   -0.839500  -65.163851
0.56342  -42.467801  -24.144252    -1.341905
-0.002833   -1.395599  -97.128580

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.643709  14.143858     0.792859
 0.000689    0.492427   4.217829
0.14085    2.643709  14.143858     0.792859
 0.000689    0.159884   2.506658
0.28171    2.643709  14.143858     0.792859
 0.000689    0.175010   3.520920
0.42256    2.643709  14.143858     0.792859
 0.000689    0.512400   4.562799
0.56342    2.643709  14.143858     0.792859
 0.000689    0.849789   5.607586
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2258

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -9.368805   -2.519850    -0.804415
-0.000694   -0.489782   -1.188455
0.14085   -9.368805   -2.519850    -0.804415
-0.000694   -0.162396   -2.366263
0.28171   -9.368805   -2.519850    -0.804415
-0.000694   -0.172675   -8.212845
0.42256   -9.368805   -2.519850    -0.804415
-0.000694   -0.505217  -14.124383
0.56342   -9.368805   -2.519850    -0.804415
-0.000694   -0.837759  -20.050436

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   28.686456  44.284286     1.336759
 0.001246    0.832991   7.179445
0.14085   28.686456  44.284286     1.336759
 0.001246    0.272341   1.339020
0.28171   28.686456  44.284286     1.336759
 0.001246    0.292384   2.023307
0.42256   28.686456  44.284286     1.336759
 0.001246    0.860321   3.515631
0.56342   28.686456  44.284286     1.336759
 0.001246    1.428250   5.092637

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -13.105713   -3.770794    -1.354082
-0.001252   -0.843910  -12.958658
0.14085  -13.105713   -3.770794    -1.354082
-0.001252   -0.276031  -25.887910
0.28171  -13.105713   -3.770794    -1.354082
-0.001252   -0.288293  -43.271205
0.42256  -13.105713   -3.770794    -1.354082
-0.001252   -0.849448  -61.552983
0.56342  -13.105713   -3.770794    -1.354082
-0.001252   -1.410114  -80.034532

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   13.646223  51.978916     1.560067
 0.001058    0.976129  11.889462
0.14085   13.646223  51.978916     1.560067
 0.001058    0.421507   2.392205
0.28171   13.646223  51.978916     1.560067
 0.001058    0.337185   2.664895
0.42256   13.646223  51.978916     1.560067
 0.001058    0.999733   4.213080
0.56342   13.646223  51.978916     1.560067
 0.001058    1.662131   5.894720

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -21.529929   -4.027354    -1.579326
-0.001063   -0.988071   -6.424355
0.14085  -21.529929   -4.027354    -1.579326
-0.001063   -0.325891  -17.905035
0.28171  -21.529929   -4.027354    -1.579326
-0.001063   -0.333320  -38.057105
0.42256  -21.529929   -4.027354    -1.579326
-0.001063   -0.987695  -59.498380
0.56342  -21.529929   -4.027354    -1.579326
-0.001063   -1.642028  -81.236844

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   13.885811  86.821638     1.417450
 0.003117    0.893736  44.955515
0.14085   13.885811  86.821638     1.417450
 0.003117    0.299645  21.389062
0.28171   13.885811  86.821638     1.417450
 0.003117    0.306568  13.182682
0.42256   13.885811  86.821638     1.417450
 0.003117    0.313492  18.954272
0.56342   13.885811  86.821638     1.417450
 0.003117    1.511325  26.230971
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2259

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -50.289009  -17.671409    -1.436058
-0.003120   -0.905074   -9.606481
0.14085  -50.289009  -17.671409    -1.436058
-0.003120   -0.303610  -16.065023
0.28171  -50.289009  -17.671409    -1.436058
-0.003120   -0.302924  -36.659060
0.42256  -50.289009  -17.671409    -1.436058
-0.003120   -0.897521  -69.685306
0.56342  -50.289009  -17.671409    -1.436058
-0.003120   -1.492010 -105.641690

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   46.245216   5.316256     0.403000
 0.000918    0.246731   1.987004
0.14085   46.245216   5.316256     0.403000
 0.000918    0.077764  13.743229
0.28171   46.245216   5.316256     0.403000
 0.000918    0.094685  47.119364
0.42256   46.245216   5.316256     0.403000
 0.000918    0.276577  80.568060
0.56342   46.245216   5.316256     0.403000
 0.000918    0.458129 114.029456

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -4.449719  -79.800493    -0.432193
-0.000966   -0.266576  -20.232798
0.14085   -4.449719  -79.800493    -0.432193
-0.000966   -0.084883   -0.712489
0.28171   -4.449719  -79.800493    -0.432193
-0.000966   -0.091310   -2.822281
0.42256   -4.449719  -79.800493    -0.432193
-0.000966   -0.260363   -5.023516
0.56342   -4.449719  -79.800493    -0.432193
-0.000966   -0.429300   -7.241876

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   42.311740  80.183519     0.691588
 0.004428    0.448381  74.181473
0.14085   42.311740  80.183519     0.691588
 0.004428    0.158416  60.458723
0.28171   42.311740  80.183519     0.691588
 0.004428    0.153863  68.243766
0.42256   42.311740  80.183519     0.691588
 0.004428    0.455484 103.920991
0.56342   42.311740  80.183519     0.691588
 0.004428    0.759288 144.582081

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -53.596312  -98.060329    -0.727285
-0.004423   -0.470548  -24.711033
0.14085  -53.596312  -98.060329    -0.727285
-0.004423   -0.165074   -3.042516
0.28171  -53.596312  -98.060329    -0.727285
-0.004423   -0.148881   -5.293986
0.42256  -53.596312  -98.060329    -0.727285
-0.004423   -0.433615  -31.382650
0.56342  -53.596312  -98.060329    -0.727285
-0.004423   -0.721732  -64.564108

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   39.626896  99.394520     1.332389
 0.003346    0.846728  57.087134
0.14085   39.626896  99.394520     1.332389
 0.003346    0.287849  42.659511
0.28171   39.626896  99.394520     1.332389
 0.003346    0.289775  53.814046
0.42256   39.626896  99.394520     1.332389
 0.003346    0.867864  84.549936
0.56342   39.626896  99.394520     1.332389
 0.003346    1.447245 118.785827
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2260

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -47.164621  -82.337913    -1.382079
-0.003341   -0.877965  -21.687967
0.14085  -47.164621  -82.337913    -1.382079
-0.003341   -0.297134  -13.760316
0.28171  -47.164621  -82.337913    -1.382079
-0.003341   -0.282651  -33.574477
0.42256  -47.164621  -82.337913    -1.382079
-0.003341   -0.837763  -70.004846
0.56342  -47.164621  -82.337913    -1.382079
-0.003341   -1.395265 -111.415596

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   51.177327 119.651078     1.804447
 0.003174    1.138364  49.875086
0.14085   51.177327 119.651078     1.804447
 0.003174    0.381425  35.642915
0.28171   51.177327 119.651078     1.804447
 0.003174    0.393645  45.953180
0.42256   51.177327 119.651078     1.804447
 0.003174    1.174453  72.526563
0.56342   51.177327 119.651078     1.804447
 0.003174    1.956188 102.010606

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -44.673220  -70.885226    -1.864110
-0.003167   -1.175648   -26.119688
0.14085  -44.673220  -70.885226    -1.864110
-0.003167   -0.393339   -32.510270
0.28171  -44.673220  -70.885226    -1.864110
-0.003167   -0.384996   -64.431556
0.42256  -44.673220  -70.885226    -1.864110
-0.003167   -1.138710  -110.158976
0.56342  -44.673220  -70.885226    -1.864110
-0.003167   -1.894403  -160.020502

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.109534  65.405161     0.506605
 0.002341    0.334747  59.923664
0.14085    0.109534  65.405161     0.506605
 0.002341    0.122046  39.734194
0.28171    0.109534  65.405161     0.506605
 0.002341    0.104029  24.134802
0.42256    0.109534  65.405161     0.506605
 0.002341    0.317802  28.515133
0.56342    0.109534  65.405161     0.506605
 0.002341    0.533370  36.441726

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -55.026014  -19.876047    -0.515854
-0.002341   -0.338805   -4.487533
0.14085  -55.026014  -19.876047    -0.515854
-0.002341   -0.122119   -1.979665
0.28171  -55.026014  -19.876047    -0.515854
-0.002341   -0.101460   -6.684853
0.42256  -55.026014  -19.876047    -0.515854
-0.002341   -0.310500  -28.654578
0.56342  -55.026014  -19.876047    -0.515854
-0.002341   -0.521809  -55.690482

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   14.508717  118.580122    1.352369
 0.002408    0.863978  55.482562
0.14085   14.508717  118.580122    1.352369
 0.002408    0.296330  26.409081
0.28171   14.508717  118.580122    1.352369
 0.002408    0.286195   8.316364
0.42256   14.508717  118.580122    1.352369
 0.002408    0.864941   8.645930
0.56342   14.508717  118.580122    1.352369
 0.002408    1.445339  12.272478
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2261

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -47.872191   -9.323314    -1.384574
-0.002409   -0.883217  -10.668662
0.14085  -47.872191   -9.323314    -1.384574
-0.002409   -0.301468  -27.646619
0.28171  -47.872191   -9.323314    -1.384574
-0.002409   -0.280718  -56.787181
0.42256  -47.872191   -9.323314    -1.384574
-0.002409   -0.844467 -101.574051
0.56342  -47.872191   -9.323314    -1.384574
-0.002409   -1.410713 -151.041091

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   25.948672  112.135410    1.431297
 0.002327    0.907685  47.315246
0.14085   25.948672  112.135410    1.431297
 0.002327    0.307224  30.920762
0.28171   25.948672  112.135410    1.431297
 0.002327    0.307229  34.895569
0.42256   25.948672  112.135410    1.431297
```

0.002327 0.925750 51.434361
0.56342 25.948672 112.135410 1.431297
0.002327 1.544773 70.216967

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-55.959189	-45.468042	-1.476163
-0.002325	-0.935002	-14.067337	
0.14085	-55.959189	-45.468042	-1.476163
-0.002325	-0.314675	-24.967080	
0.28171	-55.959189	-45.468042	-1.476163
-0.002325	-0.300165	-58.022164	
0.42256	-55.959189	-45.468042	-1.476163
-0.002325	-0.897899	-101.675236	
0.56342	-55.959189	-45.468042	-1.476163
-0.002325	-1.497656	-148.466680	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.579742	117.778337	1.933601
0.002402	1.217511	43.208398	
0.14085	27.579742	117.778337	1.933601
0.002402	0.406444	25.874913	
0.28171	27.579742	117.778337	1.933601
0.002402	0.419269	30.230070	
0.42256	27.579742	117.778337	1.933601
0.002402	1.253100	45.130112	
0.56342	27.579742	117.778337	1.933601
0.002402	2.087342	61.910162	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-54.763566	-40.588514	-1.988531
-0.002367	-1.250626	-14.418437	
0.14085	-54.763566	-40.588514	-1.988531
-0.002367	-0.415722	-29.292023	
0.28171	-54.763566	-40.588514	-1.988531
-0.002367	-0.410601	-66.229665	
0.42256	-54.763566	-40.588514	-1.988531
-0.002367	-1.219360	-112.483004	
0.56342	-54.763566	-40.588514	-1.988531
-0.002367	-2.029872	-161.642535	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.334220	27.479983	1.153340
0.000688	0.717347	8.921952	
0.14085	4.334220	27.479983	1.153340
0.000688	0.233795	2.432914	
0.28171	4.334220	27.479983	1.153340
0.000688	0.254515	4.872534	
0.42256	4.334220	27.479983	1.153340
0.000688	0.749471	7.369480	
0.56342	4.334220	27.479983	1.153340
0.000688	1.243793	9.878221	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2262

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.962773	-6.001912	-1.178137
-0.000692	-0.731860	-1.943717	
0.14085	-19.962773	-6.001912	-1.178137
-0.000692	-0.237290	-3.691049	
0.28171	-19.962773	-6.001912	-1.178137
-0.000692	-0.250239	-15.112038	
0.42256	-19.962773	-6.001912	-1.178137
-0.000692	-0.733886	-26.616090	
0.56342	-19.962773	-6.001912	-1.178137
-0.000692	-1.217651	-38.133196	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.642370	84.084296	1.945357
0.001153	1.212994	11.496259	
0.14085	31.642370	84.084296	1.945357
0.001153	0.397246	1.554948	
0.28171	31.642370	84.084296	1.945357
0.001153	0.426759	3.871664	
0.42256	31.642370	84.084296	1.945357
0.001153	1.233350	6.781913	
0.56342	31.642370	84.084296	1.945357
0.001153	2.099163	9.806936	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-23.355010	-7.221025	-1.992163
-0.001159	-1.242008	-14.096434	
0.14085	-23.355010	-7.221025	-1.992163
-0.001159	-0.405944	-37.073427	
0.28171	-23.355010	-7.221025	-1.992163
-0.001159	-0.419322	-71.576188	
0.42256	-23.355010	-7.221025	-1.992163
-0.001159	-1.234968	-106.666040	
0.56342	-23.355010	-7.221025	-1.992163
-0.001159	-2.050896	-141.928348	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.104137	95.034058	2.306007
0.000874	1.442923	18.024942	
0.14085	18.104137	95.034058	2.306007
0.000874	0.475319	2.765747	
0.28171	18.104137	95.034058	2.306007
0.000874	0.500081	6.032457	
0.42256	18.104137	95.034058	2.306007
0.000874	1.491299	9.413630	
0.56342	18.104137	95.034058	2.306007
0.000874	2.481698	12.823424	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-39.318628	-8.153468	-2.359487
-0.000880	-1.474582	-8.057381	
0.14085	-39.318628	-8.153468	-2.359487
-0.000880	-0.483825	-28.096685	
0.28171	-39.318628	-8.153468	-2.359487
-0.000880	-0.491095	-68.584095	
0.42256	-39.318628	-8.153468	-2.359487
-0.000880	-1.458597	-108.388252	
0.56342	-39.318628	-8.153468	-2.359487
-0.000880	-2.425762	-148.239621	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.129265	122.878715	2.103537
0.002461	1.325023	50.337167	
0.14085	19.129265	122.878715	2.103537
0.002461	0.442432	25.692191	
0.28171	19.129265	122.878715	2.103537
0.002461	0.455046	23.216244	
0.42256	19.129265	122.878715	2.103537
0.002461	1.359073	32.459213	
0.56342	19.129265	122.878715	2.103537
0.002461	2.263653	43.807477	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2263

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-67.327753	-27.702127	-2.156122
-0.002464	-1.355768	-10.930103	
0.14085	-67.327753	-27.702127	-2.156122
-0.002464	-0.450560	-25.342920	
0.28171	-67.327753	-27.702127	-2.156122
-0.002464	-0.446077	-63.766240	
0.42256	-67.327753	-27.702127	-2.156122
-0.002464	-1.326203	-112.169708	
0.56342	-67.327753	-27.702127	-2.156122
-0.002464	-2.207797	-163.482571	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	32.211991	86.821638	1.560067
0.004727	0.976129	58.972365	
0.14085	32.211991	86.821638	1.560067
0.004727	0.321807	45.759819	
0.28171	32.211991	86.821638	1.560067
0.004727	0.337185	42.142828	
0.42256	32.211991	86.821638	1.560067
0.004727	0.999733	63.330994	
0.56342	32.211991	86.821638	1.560067
0.004727	1.662131	87.098664	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-50.289009	-57.047152	-1.579326
-0.004722	-0.988071	-17.799960	
0.14085	-50.289009	-57.047152	-1.579326
-0.004722	-0.325891	-25.887910	
0.28171	-50.289009	-57.047152	-1.579326
-0.004722	-0.333320	-43.271205	
0.42256	-50.289009	-57.047152	-1.579326
-0.004722	-0.987695	-69.685306	
0.56342	-50.289009	-57.047152	-1.579326
-0.004722	-1.642028	-105.641690	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	51.177327	122.878715	2.306007
0.004428	1.442923	74.181473	
0.14085	51.177327	122.878715	2.306007
0.004428	0.475319	60.458723	
0.28171	51.177327	122.878715	2.306007
0.004428	0.500081	68.243766	
0.42256	51.177327	122.878715	2.306007
0.004428	1.491299	103.920991	
0.56342	51.177327	122.878715	2.306007
0.004428	2.481698	144.582081	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-67.327753	-98.060329	-2.359487
-0.004423	-1.474582	-26.119688	
0.14085	-67.327753	-98.060329	-2.359487
-0.004423	-0.483825	-37.073427	
0.28171	-67.327753	-98.060329	-2.359487
-0.004423	-0.491095	-71.576188	
0.42256	-67.327753	-98.060329	-2.359487
-0.004423	-1.458597	-112.483004	
0.56342	-67.327753	-98.060329	-2.359487
-0.004423	-2.425762	-163.482571	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	51.177327	122.878715	2.306007
0.004727	1.442923	74.181473	
0.14085	51.177327	122.878715	2.306007
0.004727	0.475319	60.458723	
0.28171	51.177327	122.878715	2.306007
0.004727	0.500081	68.243766	
0.42256	51.177327	122.878715	2.306007
0.004727	1.491299	103.920991	
0.56342	51.177327	122.878715	2.306007
0.004727	2.481698	144.582081	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2264

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-67.327753	-98.060329	-2.359487
-0.004722	-1.474582	-26.119688	
0.14085	-67.327753	-98.060329	-2.359487
-0.004722	-0.483825	-37.073427	
0.28171	-67.327753	-98.060329	-2.359487
-0.004722	-0.491095	-71.576188	
0.42256	-67.327753	-98.060329	-2.359487
-0.004722	-1.458597	-112.483004	
0.56342	-67.327753	-98.060329	-2.359487
-0.004722	-2.425762	-163.482571	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	51.177327	122.878715	2.306007
0.004727	1.442923	74.181473	
0.14085	51.177327	122.878715	2.306007
0.004727	0.475319	60.458723	
0.28171	51.177327	122.878715	2.306007
0.004727	0.500081	68.243766	
0.42256	51.177327	122.878715	2.306007
0.004727	1.491299	103.920991	
0.56342	51.177327	122.878715	2.306007
0.004727	2.481698	144.582081	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-67.327753	-98.060329	-2.359487
-0.004722	-1.474582	-26.119688	
0.14085	-67.327753	-98.060329	-2.359487
-0.004722	-0.483825	-37.073427	
0.28171	-67.327753	-98.060329	-2.359487
-0.004722	-0.491095	-71.576188	
0.42256	-67.327753	-98.060329	-2.359487
-0.004722	-1.458597	-112.483004	
0.56342	-67.327753	-98.060329	-2.359487
-0.004722	-2.425762	-163.482571	

ELEM 202 ========== LENGTH = 2.977323

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	16.028922	2.971247	0.217005
0.001391	0.236989	5.928494	
0.57748	16.028922	2.971247	0.217005
0.001391	0.145982	4.777813	
0.71832	16.028922	2.971247	0.217005
0.001391	0.055040	3.647184	
0.85916	16.028922	2.971247	0.217005
0.001391	0.092777	2.574396	
1.00000	16.028922	2.971247	0.217005
0.001391	0.285645	1.758694	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-2.036233	-42.693954	-0.460005
-0.000527	-0.485932	-79.527605	
0.57748	-2.036233	-42.693954	-0.460005
-0.000527	-0.293019	-61.667052	
0.71832	-2.036233	-42.693954	-0.460005
-0.000527	-0.100139	-43.850362	
0.85916	-2.036233	-42.693954	-0.460005
-0.000527	-0.036046	-26.331954	
1.00000	-2.036233	-42.693954	-0.460005
-0.000527	-0.127008	-12.998651	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	15.722604	27.521315	0.443061
0.005449	0.452439	47.150368	
0.57748	15.722604	27.521315	0.443061
0.005449	0.266672	36.992008	
0.71832	15.722604	27.521315	0.443061
0.005449	0.098738	35.780445	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2265

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85916	15.722604	27.521315	0.443061
0.005449	0.134807	55.844200	
1.00000	15.722604	27.521315	0.443061
0.005449	0.390213	81.520256	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-29.263488	-115.692151	-0.620378
-0.005725	-0.663419	-122.737577	
0.57748	-29.263488	-115.692151	-0.620378
-0.005725	-0.403319	-79.112488	
0.71832	-29.263488	-115.692151	-0.620378
-0.005725	-0.143508	-50.266333	
0.85916	-29.263488	-115.692151	-0.620378
-0.005725	-0.104968	-29.452356	
1.00000	-29.263488	-115.692151	-0.620378
-0.005725	-0.290767	-11.834761	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	14.347720	46.456351	0.763375
0.004045	0.806659	76.190720	
0.57748	14.347720	46.456351	0.763375
0.004045	0.486573	57.260615	
0.71832	14.347720	46.456351	0.763375
0.004045	0.178567	45.154533	
0.85916	14.347720	46.456351	0.763375
0.004045	0.188829	51.572149	
1.00000	14.347720	46.456351	0.763375
0.004045	0.599818	63.940910	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-22.875626	-97.412965	-0.988307
-0.004628	-1.067016	-114.655495	
0.57748	-22.875626	-97.412965	-0.988307
-0.004628	-0.652633	-77.105354	
0.71832	-22.875626	-97.412965	-0.988307
-0.004628	-0.238561	-49.767617	
0.85916	-22.875626	-97.412965	-0.988307
-0.004628	-0.153510	-27.475384	
1.00000	-22.875626	-97.412965	-0.988307
-0.004628	-0.473729	-11.861220	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	26.689411	56.026043	1.072226
0.003552	1.142648	92.661888	
0.57748	26.689411	56.026043	1.072226
0.003552	0.693063	69.877044	
0.71832	26.689411	56.026043	1.072226
0.003552	0.253514	52.937779	
0.85916	26.689411	56.026043	1.072226
0.003552	0.248446	51.405758	
1.00000	26.689411	56.026043	1.072226
0.003552	0.805267	55.678935	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-22.124068	-82.536647	-1.334698
-0.004305	-1.441001	-98.221063	
0.57748	-22.124068	-82.536647	-1.334698
-0.004305	-0.881374	-66.349709	
0.71832	-22.124068	-82.536647	-1.334698
-0.004305	-0.322015	-45.069523	
0.85916	-22.124068	-82.536647	-1.334698
-0.004305	-0.206140	-30.411399	
1.00000	-22.124068	-82.536647	-1.334698
-0.004305	-0.655850	-21.945098	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.129771	19.791733	0.327090
0.003307	0.329484	38.714956	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2266

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57748	0.129771	19.791733	0.327090
0.003307	0.192359	31.946474	
0.71832	0.129771	19.791733	0.327090
0.003307	0.070202	34.134740	
0.85916	0.129771	19.791733	0.327090
0.003307	0.057402	53.291981	
1.00000	0.129771	19.791733	0.327090
0.003307	0.169672	76.928866	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-30.965841	-71.692198	-0.277514
-0.004571	-0.306889	-44.510662	
0.57748	-30.965841	-71.692198	-0.277514
-0.004571	-0.190597	-18.849265	
0.71832	-30.965841	-71.692198	-0.277514
-0.004571	-0.074567	-5.501793	
0.85916	-30.965841	-71.692198	-0.277514
-0.004571	-0.082850	-1.046917	
1.00000	-30.965841	-71.692198	-0.277514
-0.004571	-0.219153	-1.510791	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.870050	46.879468	0.786067
0.003147	0.828568	79.189171	
0.57748	11.870050	46.879468	0.786067
0.003147	0.498980	60.412664	
0.71832	11.870050	46.879468	0.786067
0.003147	0.183246	49.679370	
0.85916	11.870050	46.879468	0.786067
0.003147	0.154117	59.621218	
1.00000	11.870050	46.879468	0.786067
0.003147	0.504272	72.388707	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-25.559483	-64.877865	-0.844027
-0.004863	-0.921845	-43.955410	
0.57748	-25.559483	-64.877865	-0.844027
-0.004863	-0.568016	-20.459902	
0.71832	-25.559483	-64.877865	-0.844027
-0.004863	-0.214425	-9.901626	
0.85916	-25.559483	-64.877865	-0.844027
-0.004863	-0.160253	-6.856375	
1.00000	-25.559483	-64.877865	-0.844027
-0.004863	-0.489932	-11.370044	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	16.858512	69.871797	0.870675
0.003027	0.920173	128.031713	
0.57748	16.858512	69.871797	0.870675
0.003027	0.555099	99.418381	
0.71832	16.858512	69.871797	0.870675
0.003027	0.199823	76.841237	
0.85916	16.858512	69.871797	0.870675
0.003027	0.180063	69.880912	
1.00000	16.858512	69.871797	0.870675
0.003027	0.588632	65.521064	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-35.612450	-73.938550	-0.981522
-0.003982	-1.065385	-79.965203	
0.57748	-35.612450	-73.938550	-0.981522
-0.003982	-0.653938	-51.702410	
0.71832	-35.612450	-73.938550	-0.981522
-0.003982	-0.243053	-32.955958	
0.85916	-35.612450	-73.938550	-0.981522
-0.003982	-0.175092	-20.294201	
1.00000	-35.612450	-73.938550	-0.981522
-0.003982	-0.540245	-14.927982	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2267

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	18.340051	71.256837	1.197607
0.002761	1.274364	132.765378	
0.57748	18.340051	71.256837	1.197607
0.002761	0.772192	103.424116	
0.71832	18.340051	71.256837	1.197607
0.002761	0.278244	79.038706	
0.85916	18.340051	71.256837	1.197607
0.002761	0.243470	67.834561	
1.00000	18.340051	71.256837	1.197607
0.002761	0.804185	58.729869	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-33.867758	-63.033190	-1.343236
-0.003776	-1.455337	-69.654677	
0.57748	-33.867758	-63.033190	-1.343236
-0.003776	-0.892178	-45.517870	
0.71832	-33.867758	-63.033190	-1.343236
-0.003776	-0.329479	-31.170671	
0.85916	-33.867758	-63.033190	-1.343236
-0.003776	-0.232171	-22.035218	
1.00000	-33.867758	-63.033190	-1.343236
-0.003776	-0.734412	-18.906408	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	2.182916	17.780993	0.746247
0.000377	0.800954	37.683203	
0.57748	2.182916	17.780993	0.746247
0.000377	0.488028	30.268444	
0.71832	2.182916	17.780993	0.746247
0.000377	0.175131	22.880842	
0.85916	2.182916	17.780993	0.746247
0.000377	0.142643	15.768122	
1.00000	2.182916	17.780993	0.746247
0.000377	0.480071	8.394862	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.074806	-2.610839	-0.804723
-0.000686	-0.869723	-6.803656	
0.57748	-8.074806	-2.610839	-0.804723
-0.000686	-0.532296	-6.524230	
0.71832	-8.074806	-2.610839	-0.804723
-0.000686	-0.194871	-6.411275	
0.85916	-8.074806	-2.610839	-0.804723
-0.000686	-0.137819	-6.594843	
1.00000	-8.074806	-2.610839	-0.804723
-0.000686	-0.450742	-7.021850	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	23.581182	41.707839	1.208939
0.000631	1.300476	74.697699	
0.57748	23.581182	41.707839	1.208939
0.000631	0.793571	57.716806	
0.71832	23.581182	41.707839	1.208939
0.000631	0.287263	41.174354	
0.85916	23.581182	41.707839	1.208939
0.000631	0.242226	25.773771	
1.00000	23.581182	41.707839	1.208939
0.000631	0.814185	12.544680	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.195571	-5.537136	-1.364280
-0.001385	-1.474584	-8.537244	
0.57748	-11.195571	-5.537136	-1.364280
-0.001385	-0.908513	-8.341794	
0.71832	-11.195571	-5.537136	-1.364280
-0.001385	-0.330440	-10.746828	
0.85916	-11.195571	-5.537136	-1.364280
-0.001385	-0.220433	-16.604822	
1.00000	-11.195571	-5.537136	-1.364280
-0.001385	-0.727373	-24.056911	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2268

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.144440	53.960753	1.393935
0.000643	1.498686	96.155561	
0.57748	11.144440	53.960753	1.393935
0.000643	0.914182	73.842106	
0.71832	11.144440	53.960753	1.393935
0.000643	0.330555	53.229755	
0.85916	11.144440	53.960753	1.393935

```
 0.000643    0.267257   38.418822
 1.00000    11.144440   53.960753     1.393935
 0.000643    0.912651   26.133774

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -17.794720  -22.307586   -1.540168
-0.001838   -1.671580  -26.772530
0.57748   -17.794720  -22.307586   -1.540168
-0.001838   -1.025841  -19.318159
0.71832   -17.794720  -22.307586   -1.540168
-0.001838   -0.380290  -14.283476
0.85916   -17.794720  -22.307586   -1.540168
-0.001838   -0.254851  -12.239828
1.00000   -17.794720  -22.307586   -1.540168
-0.001838   -0.839410  -16.534590

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    11.605787   73.175942    1.323524
 0.002875   1.405614  140.920765
0.57748    11.605787   73.175942    1.323524
 0.002875   0.850649  110.850696
0.71832    11.605787   73.175942    1.323524
 0.002875   0.305383   86.490264
0.85916    11.605787   73.175942    1.323524
 0.002875   0.253777   76.888373
1.00000    11.605787   73.175942    1.323524
 0.002875   0.841372   69.376432

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -39.690034  -59.401391   -1.407946
-0.004206   -1.527783  -55.936730
0.57748   -39.690034  -59.401391   -1.407946
-0.004206   -0.937637  -34.964612
0.71832   -39.690034  -59.401391   -1.407946
-0.004206   -0.347894  -23.305440
0.85916   -39.690034  -59.401391   -1.407946
-0.004206   -0.259326  -17.123144
1.00000   -39.690034  -59.401391   -1.407946
-0.004206   -0.814373  -16.925248

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    37.096830    6.964136    0.279213
 0.001507   0.303126   10.469194
0.57748    37.096830    6.964136    0.279213
 0.001507   0.185904    8.368763
0.71832    37.096830    6.964136    0.279213
 0.001507   0.068834    6.290975
0.85916    37.096830    6.964136    0.279213
 0.001507   0.118770    4.302491
1.00000    37.096830    6.964136    0.279213
 0.001507   0.371266    2.478894

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663    -3.614793   -69.063500   -0.600956
-0.000505   -0.635892  -137.926460
0.57748    -3.614793   -69.063500   -0.600956
-0.000505   -0.383845  -109.270165
0.71832    -3.614793   -69.063500   -0.600956
-0.000505   -0.130930   -80.639112
0.85916    -3.614793   -69.063500   -0.600956
-0.000505   -0.048238   -52.198478
1.00000    -3.614793   -69.063500   -0.600956
-0.000505   -0.165377   -25.442240
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2269

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    33.932514   31.206767    0.597684
 0.005095   0.619730   59.442999
0.57748    33.932514   31.206767    0.597684
 0.005095   0.371327   47.597051
0.71832    33.932514   31.206767    0.597684
 0.005095   0.137424   45.512105
0.85916    33.932514   31.206767    0.597684
 0.005095   0.048235   64.366742
1.00000    33.932514   31.206767    0.597684
 0.005095   0.542633   87.533340

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -39.080211  -143.562948   -0.861449
-0.005849   -0.918974  -184.626568
0.57748   -39.080211  -143.562948   -0.861449
-0.005849   -0.558135  -125.352006
0.71832   -39.080211  -143.562948   -0.861449
-0.005849   -0.199324   -83.442985
0.85916   -39.080211  -143.562948   -0.861449
-0.005849   -0.132729   -51.599190
1.00000   -39.080211  -143.562948   -0.861449
-0.005849   -0.383263   -23.746236

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    32.039544   59.874786    1.125872
 0.003932   1.199019  109.455473
0.57748    32.039544   59.874786    1.125872
 0.003932   0.728290   85.108113
0.71832    32.039544   59.874786    1.125872
 0.003932   0.268225   67.891733
0.85916    32.039544   59.874786    1.125872
 0.003932   0.273737   66.991729
1.00000    32.039544   59.874786    1.125872
 0.003932   0.888194   71.499202

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -34.638373  -121.918331   -1.464809
-0.004791   -1.579145  -167.460328
0.57748   -34.638373  -121.918331   -1.464809
-0.004791   -0.984978  -117.021515
0.71832   -34.638373  -121.918331   -1.464809
-0.004791   -0.351497   -79.062289
0.85916   -34.638373  -121.918331   -1.464809
-0.004791   -0.217612   -47.960595
1.00000   -34.638373  -121.918331   -1.464809
-0.004791   -0.689709   -22.594785

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    41.546584   80.708507    1.554061
 0.003429   1.664340  138.477429
0.57748    41.546584   80.708507    1.554061
 0.003429   1.013913  105.670360
0.71832    41.546584   80.708507    1.554061
 0.003429   0.372294   79.448147
0.85916    41.546584   80.708507    1.554061
 0.003429   0.357422   67.864598
1.00000    41.546584   80.708507    1.554061
 0.003429   1.173498   62.555697

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -33.363785  -103.874829   -1.945186
-0.004434   -2.097152  -144.239915
0.57748   -33.363785  -103.874829   -1.945186
-0.004434   -1.281345  -101.633392
0.71832   -33.363785  -103.874829   -1.945186
-0.004434   -0.466114   -70.915948
0.85916   -33.363785  -103.874829   -1.945186
-0.004434   -0.290770   -47.299017
1.00000   -33.363785  -103.874829   -1.945186
-0.004434   -0.942511   -30.572471
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2270

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    0.093414   23.670830    0.483139
 0.002457   0.502133   52.561355
0.57748    0.093414   23.670830    0.483139
 0.002457   0.301031   43.987843
0.71832    0.093414   23.670830    0.483139
 0.002457   0.110078   42.856990
0.85916    0.093414   23.670830    0.483139
 0.002457   0.082654   56.781408
1.00000    0.093414   23.670830    0.483139
 0.002457   0.263382   73.970119

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -41.108604  -63.559063   -0.433162
-0.003933   -0.474948  -45.161489
0.57748   -41.108604  -63.559063   -0.433162
-0.003933   -0.293632  -19.325457
0.71832   -41.108604  -63.559063   -0.433162
-0.003933   -0.114113   -5.771478
0.85916   -41.108604  -63.559063   -0.433162
-0.003933   -0.105921   -0.943160
1.00000   -41.108604  -63.559063   -0.433162
-0.003933   -0.308251   -1.439417

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    12.066615   67.338788    1.184815
 0.002402   1.264464  120.520739
0.57748    12.066615   67.338788    1.184815
 0.002402   0.768972   93.363995
0.71832    12.066615   67.338788    1.184815
 0.002402   0.253732   73.460132
0.85916    12.066615   67.338788    1.184815
 0.002402   0.231928   69.904145
1.00000    12.066615   67.338788    1.184815
 0.002402   0.776017   70.609714

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -35.178895  -57.994731   -1.298237
-0.004316   -1.411986  -44.086830
0.57748   -35.178895  -57.994731   -1.298237
-0.004316   -0.867880  -20.767314
0.71832   -35.178895  -57.994731   -1.298237
-0.004316   -0.324477   -9.946488
0.85916   -35.178895  -57.994731   -1.298237
-0.004316   -0.226289   -6.680779
1.00000   -35.178895  -57.994731   -1.298237
-0.004316   -0.723009  -10.959114

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    21.459430   86.183483    1.259421
 0.002402   1.345444  161.024746
0.57748    21.459430   86.183483    1.259421
 0.002402   0.818197  125.754797
0.71832    21.459430   86.183483    1.259421
 0.002402   0.297636   95.490056
0.85916    21.459430   86.183483    1.259421
 0.002402   0.264357   76.759502
1.00000    21.459430   86.183483    1.259421
 0.002402   0.886610   62.390397

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -43.141207  -79.163119   -1.483788
-0.003352   -1.607831  -63.599622
0.57748   -43.141207  -79.163119   -1.483788
-0.003352   -0.985879  -69.475268
0.71832   -43.141207  -79.163119   -1.483788
-0.003352   -0.363615  -45.565151
0.85916   -43.141207  -79.163119   -1.483788
-0.003352   -0.238945  -27.150342
1.00000   -43.141207  -79.163119   -1.483788
-0.003352   -0.767198  -16.242702
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2271

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    22.948310   94.624125    1.736620
 0.002212   1.861015  174.704863
0.57748    22.948310   94.624125    1.736620
 0.002212   1.133585  136.143651
0.71832    22.948310   94.624125    1.736620
 0.002212   0.411759  102.000457
0.85916    22.948310   94.624125    1.736620
 0.002212   0.354809   77.685464
1.00000    22.948310   94.624125    1.736620
 0.002212   1.191791   57.278057

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -42.791215  -68.727194   -1.995300
-0.003264   -2.158832  -90.703173
0.57748   -42.791215  -68.727194   -1.995300
-0.003264   -1.322179  -63.145566
0.71832   -42.791215  -68.727194   -1.995300
-0.003264   -0.485038  -43.537245
0.85916   -42.791215  -68.727194   -1.995300
-0.003264   -0.323469  -28.609287
1.00000   -42.791215  -68.727194   -1.995300
-0.003264   -1.051912  -20.039972

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    3.537706   27.578891    1.097262
 0.000345   1.179250   56.120076
0.57748    3.537706   27.578891    1.097262
 0.000345   0.719201   44.741701
0.71832    3.537706   27.578891    1.097262
 0.000345   0.259267   33.458821
0.85916    3.537706   27.578891    1.097262
 0.000345   0.205606   22.393065
1.00000    3.537706   27.578891    1.097262
 0.000345   0.694762   11.797136

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -16.595586   -5.312951   -1.164457
-0.000692   -1.257470  -12.931105
0.57748   -16.595586   -5.312951   -1.164457
-0.000692   -0.769180  -11.177485
0.71832   -16.595586   -5.312951   -1.164457
-0.000692   -0.279822   -9.573336
0.85916   -16.595586   -5.312951   -1.164457
-0.000692   -0.200542   -8.240516
1.00000   -16.595586   -5.312951   -1.164457
-0.000692   -0.661152   -7.433361

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    25.999998   70.097598    1.773085
 0.000519   1.910623  118.772096
0.57748    25.999998   70.097598    1.773085
 0.000519   1.167162   90.239417
0.71832    25.999998   70.097598    1.773085
 0.000519   0.424239   62.544300
0.85916    25.999998   70.097598    1.773085
 0.000519   0.353702   37.227744
1.00000    25.999998   70.097598    1.773085
 0.000519   1.190487   15.663429

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -19.445793   -8.091096   -1.993085
-0.001334   -2.151604  -17.327789
0.57748   -19.445793   -8.091096   -1.993085
-0.001334   -1.315754  -15.467946
0.71832   -19.445793   -8.091096   -1.993085
-0.001334   -0.478699  -15.053361
0.85916   -19.445793   -8.091096   -1.993085
-0.001334   -0.319531  -17.651622
1.00000   -19.445793   -8.091096   -1.993085
-0.001334   -1.063375  -24.655216
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2272

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    14.882401   82.909867    2.076116
 0.000395   2.237786  150.649714
0.57748    14.882401   82.909867    2.076116
 0.000395   1.367156  116.685879
0.71832    14.882401   82.909867    2.076116
 0.000395   0.496657   83.658232
0.85916    14.882401   82.909867    2.076116
 0.000395   0.393688   54.143003
1.00000    14.882401   82.909867    2.076116
 0.000395   1.353900   28.788501

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -31.658658  -20.059909   -2.285739
-0.001508   -2.477981  -30.700762
0.57748   -31.658658  -20.059909   -2.285739
-0.001508   -1.519331  -23.816239
0.71832   -31.658658  -20.059909   -2.285739
-0.001508   -0.558714  -17.793361
0.85916   -31.658658  -20.059909   -2.285739
-0.001508   -0.373088  -13.778634
1.00000   -31.658658  -20.059909   -2.285739
-0.001508   -1.244414  -17.174042

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    15.874447   96.331207    1.930658
 0.002087   2.066706  185.095801
0.57748    15.874447   96.331207    1.930658
 0.002087   1.258036  145.762093
0.71832    15.874447   96.331207    1.930658
 0.002087   0.455320  111.163957
0.85916    15.874447   96.331207    1.930658
 0.002087   0.371964   87.004829
1.00000    15.874447   96.331207    1.930658
 0.002087   1.255139   67.179005

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -52.887566  -58.396618   -2.104834
-0.003447   -4.598515  -91.586586
0.57748   -52.887566  -58.396618   -2.104834
-0.003447   -1.397911  -45.749147
0.71832   -52.887566  -58.396618   -2.104834
-0.003447   -0.514967  -30.501219
0.85916   -52.887566  -58.396618   -2.104834
-0.003447   -0.361716  -20.463802
1.00000   -52.887566  -58.396618   -2.104834
-0.003447   -1.171776  -17.660005

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    26.689411   73.175942    1.393935
 0.005449   1.498686  140.920765
0.57748    26.689411   73.175942    1.393935
 0.005449   0.914182  110.850696
0.71832    26.689411   73.175942    1.393935
 0.005449   0.330555   86.490264
0.85916    26.689411   73.175942    1.393935
 0.005449   0.267257   76.888373
1.00000    26.689411   73.175942    1.393935
 0.005449   0.912651   81.520256

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -39.690034  -115.692151   -1.540168
-0.005725   -1.671580  -122.737577
0.57748   -39.690034  -115.692151   -1.540168
-0.005725   -1.025841   -79.112488
0.71832   -39.690034  -115.692151   -1.540168
-0.005725   -0.380290   -50.266333
0.85916   -39.690034  -115.692151   -1.540168
-0.005725   -0.259326   -30.411399
1.00000   -39.690034  -115.692151   -1.540168
-0.005725   -0.839410   -24.056911
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2273

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    41.546584   96.331207    2.076116
 0.005095   2.237786  185.095801
0.57748    41.546584   96.331207    2.076116
 0.005095   1.367156  145.762393
0.71832    41.546584   96.331207    2.076116
 0.005095   0.496657  111.163957
0.85916    41.546584   96.331207    2.076116
 0.005095   0.393688   87.004829
1.00000    41.546584   96.331207    2.076116
 0.005095   1.353900   87.533340

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -52.887566  -143.562948   -2.285739
-0.005849   -2.477981  -184.626568
0.57748   -52.887566  -143.562948   -2.285739
-0.005849   -1.519331  -125.352006
0.71832   -52.887566  -143.562948   -2.285739
-0.005849   -0.558714   -83.442985
0.85916   -52.887566  -143.562948   -2.285739
-0.005849   -0.373088   -52.198478
1.00000   -52.887566  -143.562948   -2.285739
-0.005849   -1.244414   -30.572471

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    41.546584   96.331207    2.076116
 0.005449   2.237786  185.095801
0.57748    41.546584   96.331207    2.076116
 0.005449   1.367156  145.762393
0.71832    41.546584   96.331207    2.076116
 0.005449   0.496657  111.163957
0.85916    41.546584   96.331207    2.076116
 0.005449   0.393688   87.004829
1.00000    41.546584   96.331207    2.076116
 0.005449   1.353900   87.533340

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -52.887566  -143.562948   -2.285739
-0.005849   -2.477981  -184.626568
0.57748   -52.887566  -143.562948   -2.285739
-0.005849   -1.519331  -125.352006
0.71832   -52.887566  -143.562948   -2.285739
-0.005849   -0.558714   -83.442985
0.85916   -52.887566  -143.562948   -2.285739
-0.005849   -0.373088   -52.198478
1.00000   -52.887566  -143.562948   -2.285739
-0.005849   -1.244414   -30.572471

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43663    41.546584   96.331207    2.076116
 0.005449   2.237786  185.095801
0.57748    41.546584   96.331207    2.076116
 0.005449   1.367156  145.762393
0.71832    41.546584   96.331207    2.076116
 0.005449   0.496657  111.163957
0.85916    41.546584   96.331207    2.076116
 0.005449   0.393688   87.004829
1.00000    41.546584   96.331207    2.076116
 0.005449   1.353900   87.533340

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43663   -52.887566  -143.562948   -2.285739
-0.005849   -2.477981  -184.626568
0.57748   -52.887566  -143.562948   -2.285739
-0.005849   -1.519331  -125.352006
0.71832   -52.887566  -143.562948   -2.285739
-0.005849   -0.558714   -83.442985
0.85916   -52.887566  -143.562948   -2.285739
-0.005849   -0.373088   -52.198478
1.00000   -52.887566  -143.562948   -2.285739
-0.005849   -1.244414   -30.572471
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2274

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      203 ================== LENGTH
=     2.977409

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    16.077349    3.015494    0.339548
 0.001228   0.210032   1.755515
0.14084    16.077349    3.015494    0.339548
 0.001228   0.067713   10.315212
0.28169    16.077349    3.015494    0.339548
 0.001228   0.089586   27.914211
0.42253    16.077349    3.015494    0.339548
 0.001228   0.224823   45.656679
0.56338    16.077349    3.015494    0.339548
 0.001228   0.360075   63.444109

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000    -2.045703   -42.452603   -0.322535
-0.000504   -0.180928   -12.998584
0.14084    -2.045703   -42.452603   -0.322535
-0.000504   -0.045732   -13.571923
0.28169    -2.045703   -42.452603   -0.322535
-0.000504   -0.089586   -14.145261
0.42253    -2.045703   -42.452603   -0.322535
-0.000504   -0.217249   -15.115753
0.56338    -2.045703   -42.452603   -0.322535
-0.000504   -0.359627   -16.374053

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    15.669396   86.193991    0.433045
 0.006518   0.263255   81.751938
0.14084    15.669396   86.193991    0.433045
 0.006518   0.086264   66.975081
0.28169    15.669396   86.193991    0.433045
 0.006518   0.145052   60.851068
0.42253    15.669396   86.193991    0.433045
 0.006518   0.378432   79.123877
0.56338    15.669396   86.193991    0.433045
 0.006518   0.631628  103.498787

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -33.193819  -61.964686   -0.604658
-0.004441   -0.384236   -11.854476
0.14084   -33.193819  -61.964686   -0.604658
-0.004441   -0.131400   -12.643796
0.28169   -33.193819  -61.964686   -0.604658
-0.004441   -0.100179   -19.444129
0.42253   -33.193819  -61.964686   -0.604658
-0.004441   -0.281808   -40.220210
0.56338   -33.193819  -61.964686   -0.604658
-0.004441   -0.463382   -76.061111

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    14.331084   86.266633    0.755926
 0.004723   0.454060   64.104483
0.14084    14.331084   86.266633    0.755926
 0.004723   0.139970   56.650275
0.28169    14.331084   86.266633    0.755926
 0.004723   0.245123   59.564840
0.42253    14.331084   86.266633    0.755926
 0.004723   0.658089   79.740674
0.56338    14.331084   86.266633    0.755926
 0.004723   1.084563  104.167779

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -25.660148  -60.994468   -1.017628
-0.003346   -0.623726   -11.864497
0.14084   -25.660148  -60.994468   -1.017628
-0.003346   -0.197374   -22.385095
0.28169   -25.660148  -60.994468   -1.017628
-0.003346   -0.179833   -38.500798
Program    SAP2000    Nonlinear    Version    7.42
```

File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2275

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42253 -25.660148 -60.994468 -1.017628
-0.003346 -0.496880 -64.148702
0.56338 -25.660148 -60.994468 -1.017628
-0.003346 -0.813915 -100.096484

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.670760 89.351291 1.060946
0.004101 0.633957 55.819867
0.14084 26.670760 89.351291 1.060946
0.004101 0.191577 47.507942
0.28169 26.670760 89.351291 1.060946
0.004101 0.328042 50.580662
0.42253 26.670760 89.351291 1.060946
0.004101 0.881872 68.133044
0.56338 26.670760 89.351291 1.060946
0.004101 1.446946 89.123631

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -24.372667 -52.323518 -1.348009
-0.003376 -0.815359 -21.946450
0.14084 -24.372667 -52.323518 -1.348009
-0.003376 -0.250466 -35.592802
0.28169 -24.372667 -52.323518 -1.348009
-0.003376 -0.255962 -53.904166
0.42253 -24.372667 -52.323518 -1.348009
-0.003376 -0.700815 -80.320865
0.56338 -24.372667 -52.323518 -1.348009
-0.003376 -1.145685 -116.068312

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.129450 69.033362 0.200231
0.004206 0.116467 77.123847
0.14084 0.129450 69.033362 0.200231
0.004206 0.036194 61.784236
0.28169 0.129450 69.033362 0.200231
0.004206 0.087831 46.662913
0.42253 0.129450 69.033362 0.200231
0.004206 0.246703 51.649824
0.56338 0.129450 69.033362 0.200231
0.004206 0.422222 61.678305

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -34.269802 -27.215099 -0.419362
-0.003221 -0.282374 -1.539241
0.14084 -34.269802 -27.215099 -0.419362
-0.003221 -0.106997 -3.134791
0.28169 -34.269802 -27.215099 -0.419362
-0.003221 -0.051561 -7.742672
0.42253 -34.269802 -27.215099 -0.419362
-0.003221 -0.195504 -23.995066
0.56338 -34.269802 -27.215099 -0.419362
-0.003221 -0.219455 -52.769634

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.896563 93.116024 0.686083
0.003953 0.407195 72.582375
0.14084 11.896563 93.116024 0.686083
0.003953 0.122910 53.226941
0.28169 11.896563 93.116024 0.686083
0.003953 0.228613 37.651814
0.42253 11.896563 93.116024 0.686083
0.003953 0.628620 41.528905
0.56338 11.896563 93.116024 0.686083
0.003953 1.043967 50.098806

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -28.707179 -23.389439 -0.991143
-0.003497 -0.619733 -11.391421
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2276

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 -28.707179 -23.389439 -0.991143
-0.003497 -0.204398 -25.092799
0.28169 -28.707179 -23.389439 -0.991143
-0.003497 -0.168290 -40.776923
0.42253 -28.707179 -23.389439 -0.991143
-0.003497 -0.455973 -67.548948
0.56338 -28.707179 -23.389439 -0.991143
-0.003497 -0.743635 -106.198092

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 16.839174 102.040661 0.763475
0.003784 0.452549 65.656155
0.14084 16.839174 102.040661 0.763475
0.003784 0.134908 50.281647
0.28169 16.839174 102.040661 0.763475
0.003784 0.259308 49.904043
0.42253 16.839174 102.040661 0.763475
0.003784 0.709287 64.152635
0.56338 16.839174 102.040661 0.763475
0.003784 1.170210 81.854594

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -37.841804 -44.663617 -1.099868
-0.002959 -0.676065 -14.929211
0.14084 -37.841804 -44.663617 -1.099868
-0.002959 -0.417401 -28.179015
0.28169 -37.841804 -44.663617 -1.099868
-0.002959 -0.188103 -49.824273
0.42253 -37.841804 -44.663617 -1.099868
-0.002959 -0.508245 -83.733370
0.56338 -37.841804 -44.663617 -1.099868
-0.002959 -0.828368 -126.157744

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.355466 98.179015 1.077465
0.003425 0.636347 58.847710
0.14084 18.355466 98.179015 1.077465
0.003425 0.186620 41.627893
0.28169 18.355466 98.179015 1.077465
0.003425 0.345675 41.847549
0.42253 18.355466 98.179015 1.077465
0.003425 0.940873 54.231715
0.56338 18.355466 98.179015 1.077465
0.003425 1.545224 69.508895

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -35.665162 -38.494321 -1.441840
-0.003058 -0.874522 -18.907395
0.14084 -35.665162 -38.494321 -1.441840
-0.003058 -0.270365 -27.933132
0.28169 -35.665162 -38.494321 -1.441840
-0.003058 -0.267551 -50.881219
0.42253 -35.665162 -38.494321 -1.441840
-0.003058 -0.719395 -81.320457
0.56338 -35.665162 -38.494321 -1.441840
-0.003058 -1.171203 -122.204715

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.161192 17.848614 0.675171
0.000437 0.394854 8.401040
0.14084 2.161192 17.848614 0.675171
0.000437 0.111739 4.281377
0.28169 2.161192 17.848614 0.675171
0.000437 0.201043 3.608561
0.42253 2.161192 17.848614 0.675171
0.000437 0.544084 3.725174
0.56338 2.161192 17.848614 0.675171
0.000437 0.887147 4.145626
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2277

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.957874 -2.544733 -0.818079
-0.000921 -0.485109 -7.021930
0.14084 -7.957874 -2.544733 -0.818079
-0.000921 -0.142070 -7.755202
0.28169 -7.957874 -2.544733 -0.818079
-0.000921 -0.171427 -9.051731
0.42253 -7.957874 -2.544733 -0.818079
-0.000921 -0.454551 -14.779471
0.56338 -7.957874 -2.544733 -0.818079
-0.000921 -0.737684 -22.253617

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 23.547379 44.273934 1.149683
0.000692 0.678405 12.564508
0.14084 23.547379 44.273934 1.149683
0.000692 0.196709 3.626764
0.28169 23.547379 44.273934 1.149683
0.000692 0.336429 2.138308
0.42253 23.547379 44.273934 1.149683
0.000692 0.909173 3.484021
0.56338 23.547379 44.273934 1.149683
0.000692 1.482611 5.024613

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.139996 -3.794438 -1.367475
-0.001713 -0.811263 -24.056071
0.14084 -11.139996 -3.794438 -1.367475
-0.001713 -0.237878 -32.719577
0.28169 -11.139996 -3.794438 -1.367475
-0.001713 -0.286160 -41.872592
0.42253 -11.139996 -3.794438 -1.367475
-0.001713 -0.768087 -57.140560
0.56338 -11.139996 -3.794438 -1.367475
-0.001713 -1.250154 -75.414593

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.118633 57.176076 1.286608
0.000729 0.757545 26.160812
0.14084 11.118633 57.176076 1.286608
0.000729 0.218346 21.724031
0.28169 11.118633 57.176076 1.286608
0.000729 0.395660 26.341335
0.42253 11.118633 57.176076 1.286608
0.000729 1.081270 34.263094
0.56338 11.118633 57.176076 1.286608
0.000729 1.767989 42.494039

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.956468 -19.949446 -1.637580
-0.001552 -1.097120 -16.256443
0.14084 -17.956468 -19.949446 -1.637580
-0.001552 -0.292367 -30.795564
0.28169 -17.956468 -19.949446 -1.637580
-0.001552 -0.321584 -45.822278
0.42253 -17.956468 -19.949446 -1.637580
-0.001552 -0.861079 -66.498490
0.56338 -17.956468 -19.949446 -1.637580
-0.001552 -1.400582 -90.247968

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.603978 105.059501 1.140060
0.003679 0.669558 69.515128
0.14084 11.603978 105.059501 1.140060
0.003679 0.194540 44.749793
0.28169 11.603978 105.059501 1.140060
0.003679 0.368963 37.448773
0.42253 11.603978 105.059501 1.140060
0.003679 1.008527 45.769633
0.56338 11.603978 105.059501 1.140060
0.003679 1.659073 57.536237
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2278

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -41.784803 -30.396874 -1.551792
-0.003455 -0.945731 -16.933431
0.14084 -41.784803 -30.396874 -1.551792
-0.003455 -0.295623 -25.722041
0.28169 -41.784803 -30.396874 -1.551792
-0.003455 -0.286720 -45.965024
0.42253 -41.784803 -30.396874 -1.551792
-0.003455 -0.764794 -79.596195
0.56338 -41.784803 -30.396874 -1.551792
-0.003455 -1.242848 -123.375006

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 37.100124 6.879214 0.392718
0.001334 0.240369 2.471575
0.14084 37.100124 6.879214 0.392718
0.001334 0.075762 11.081508
0.28169 37.100124 6.879214 0.392718
0.001334 0.114447 38.338620
0.42253 37.100124 6.879214 0.392718
0.001334 0.291407 66.618590
0.56338 37.100124 6.879214 0.392718
0.001334 0.467934 95.106484

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.614948 -68.493995 -0.420330
-0.000490 -0.236548 -25.419694
0.14084 -3.614948 -68.493995 -0.420330
-0.000490 -0.059920 -11.367746
0.28169 -3.614948 -68.493995 -0.420330
-0.000490 -0.080065 -12.878958
0.42253 -3.614948 -68.493995 -0.420330
-0.000490 -0.253614 -15.339238
0.56338 -3.614948 -68.493995 -0.420330
-0.000490 -0.418318 -17.988735

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 33.897931 90.822303 0.569202
0.006918 0.344725 87.579713
0.14084 33.897931 90.822303 0.569202
0.006918 0.114490 70.055924
0.28169 33.897931 90.822303 0.569202
0.006918 0.198501 73.015939
0.42253 33.897931 90.822303 0.569202
0.006918 0.535002 100.477865
0.56338 33.897931 90.822303 0.569202
0.006918 0.889716 135.735932

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -41.785765 -87.120108 -0.846698
-0.004097 -0.531393 -23.737372
0.14084 -41.785765 -87.120108 -0.846698
-0.004097 -0.301360 -10.732858
0.28169 -41.785765 -87.120108 -0.846698
-0.004097 -0.137478 -17.451672
0.42253 -41.785765 -87.120108 -0.846698
-0.004097 -0.372148 -42.037482
0.56338 -41.785765 -87.120108 -0.846698
-0.004097 -0.610883 -79.068085

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 32.037768 102.185040 1.107971
0.005186 0.663812 71.584433
0.14084 32.037768 102.185040 1.107971
0.005186 0.204931 58.655651
0.28169 32.037768 102.185040 1.107971
0.005186 0.355141 66.897492
0.42253 32.037768 102.185040 1.107971
0.005186 0.969412 94.483237
0.56338 32.037768 102.185040 1.107971
0.005186 1.595393 127.804442
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2279

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -36.624649 -81.920391 -1.493053
-0.003221 -0.909003 -22.583228
0.14084 -36.624649 -81.920391 -1.493053
-0.003221 -0.281538 -21.927035
0.28169 -36.624649 -81.920391 -1.493053
-0.003221 -0.268371 -40.542206
0.42253 -36.624649 -81.920391 -1.493053
-0.003221 -0.729932 -73.626728
0.56338 -36.624649 -81.920391 -1.493053
-0.003221 -1.194878 -115.715266

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 41.536100 116.144941 1.545801
0.004463 0.923173 62.604347
0.14084 41.536100 116.144941 1.545801
0.004463 0.279889 49.123645
0.28169 41.536100 116.144941 1.545801
0.004463 0.467892 57.027664
0.42253 41.536100 116.144941 1.545801
0.004463 1.271821 81.017559
0.56338 41.536100 116.144941 1.545801
0.004463 2.085338 109.784803

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -34.997744 -70.684329 -1.939888
-0.003256 -1.076643 -36.562523
0.14084 -34.997744 -70.684329 -1.939888
-0.003256 -0.353518 -39.593833
0.28169 -34.997744 -70.684329 -1.939888
-0.003256 -0.375943 -67.511818
0.42253 -34.997744 -70.684329 -1.939888
-0.003256 -1.021453 -107.479744
0.56338 -34.997744 -70.684329 -1.939888
-0.003256 -1.669915 -154.928554

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.093679 65.570205 0.352364
0.003764 0.208462 74.011445
0.14084 0.093679 65.570205 0.352364
0.003764 0.066268 58.486143
0.28169 0.093679 65.570205 0.352364
0.003764 0.132955 44.714803
0.42253 0.093679 65.570205 0.352364
0.003764 0.387192 47.961949
0.56338 0.093679 65.570205 0.352364
0.003764 0.646467 57.352820

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -43.006694 -24.866322 -0.628369
-0.002477 -0.408405 -1.454754
0.14084 -43.006694 -24.866322 -0.628369
-0.002477 -0.144800 -3.060400
0.28169 -43.006694 -24.866322 -0.628369
-0.002477 -0.219343 -7.824408
0.42253 -43.006694 -24.866322 -0.628369
-0.002477 -0.235443 -25.019319
0.56338 -43.006694 -24.866322 -0.628369
-0.002477 -0.383174 -51.627543

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.097193 107.799298 1.097628
0.003629 0.653917 70.670795
0.14084 12.097193 107.799298 1.097628
0.003629 0.198989 49.662722
0.28169 12.097193 107.799298 1.097628
0.003629 0.341493 33.785880
0.42253 12.097193 107.799298 1.097628
0.003629 0.950312 36.063179
0.56338 12.097193 107.799298 1.097628
0.003629 1.570907 43.966214
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2280

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -37.048403 -20.905201 -1.479797
-0.002832 -0.911441 -10.975539
0.14084 -37.048403 -20.905201 -1.479797
-0.002832 -0.290195 -28.910731
0.28169 -37.048403 -20.905201 -1.479797
-0.002832 -0.269594 -51.159332
0.42253 -37.048403 -20.905201 -1.479797
-0.002832 -0.726953 -87.120840
0.56338 -37.048403 -20.905201 -1.479797
-0.002832 -1.187404 -131.592106

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 21.442947 111.801279 1.167368
0.003409 0.694412 62.430488
0.14084 21.442947 111.801279 1.167368
0.003409 0.208704 49.123238
0.28169 21.442947 111.801279 1.167368
0.003409 0.377902 54.502785
0.42253 21.442947 111.801279 1.167368
0.003409 1.044449 73.005288
0.56338 21.442947 111.801279 1.167368
0.003409 1.717815 95.377704

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -44.361399 -55.058187 -1.605618
-0.002338 -0.975230 -16.231166
0.14084 -44.361399 -55.058187 -1.605618
-0.002338 -0.301424 -27.639687
0.28169 -44.361399 -55.058187 -1.605618
-0.002338 -0.286929 -58.212027
0.42253 -44.361399 -55.058187 -1.605618
-0.002338 -0.773973 -98.836440
0.56338 -44.361399 -55.058187 -1.605618
-0.002338 -1.263872 -145.127041

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.960603 116.181120 1.628327
0.003090 0.964972 57.189889
0.14084 22.960603 116.181120 1.628327
0.003090 0.285345 40.921618
0.28169 22.960603 116.181120 1.628327
0.003090 0.499364 46.389342
0.42253 22.960603 116.181120 1.628327
0.003090 1.369576 62.813377
0.56338 22.960603 116.181120 1.628327
0.003090 2.245398 82.546349

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -43.809242 -48.478785 -2.087750
-0.002562 -1.255761 -20.033323
0.14084 -43.809242 -48.478785 -2.087750
-0.002562 -0.379758 -32.936231
0.28169 -43.809242 -48.478785 -2.087750
-0.002562 -0.402638 -66.465205
0.42253 -43.809242 -48.478785 -2.087750
-0.002562 -1.083550 -108.553399
0.56338 -43.809242 -48.478785 -2.087750
-0.002562 -1.766519 -156.774421

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.531408 27.602657 1.010458
0.000405 0.592787 11.807551
0.14084 3.531408 27.602657 1.010458
0.000405 0.169463 4.328711
0.28169 3.531408 27.602657 1.010458
0.000405 0.287604 4.549297
0.42253 3.531408 27.602657 1.010458
0.000405 0.781184 6.297876
0.56338 3.531408 27.602657 1.010458
0.000405 1.274135 8.247401
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2281

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.562626 -5.286133 -1.174974
-0.000964 -0.698525 -7.437221
0.14084 -16.562626 -5.286133 -1.174974
-0.000964 -0.202706 -8.525804
0.28169 -16.562626 -5.286133 -1.174974
-0.000964 -0.255001 -16.132630
0.42253 -16.562626 -5.286133 -1.174974
-0.000964 -0.678550 -26.661855
0.56338 -16.562626 -5.286133 -1.174974
-0.000964 -1.102208 -38.276441

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 25.992579 71.870547 1.720801
0.000608 1.017992 15.685092
0.14084 25.992579 71.870547 1.720801
0.000608 0.297014 3.635375
0.28169 25.992579 71.870547 1.720801
0.000608 0.483118 3.960883
0.42253 25.992579 71.870547 1.720801
0.000608 1.308866 16.411616
0.56338 25.992579 71.870547 1.720801
0.000608 2.136189 9.274590

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.471943 -6.934912 -1.969472
-0.001674 -1.166315 -24.656987
0.14084 -19.471943 -6.934912 -1.969472
-0.001674 -0.339878 -40.177683
0.28169 -19.471943 -6.934912 -1.969472
-0.001674 -0.427520 -65.647596
0.42253 -19.471943 -6.934912 -1.969472
-0.001674 -1.147067 -94.846817
0.56338 -19.471943 -6.934912 -1.969472
-0.001674 -1.868654 -124.911342

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.885765 83.222456 1.970515
0.000440 1.163944 28.822351
0.14084 14.885765 83.222456 1.970515
0.000440 0.337692 20.093154
0.28169 14.885765 83.222456 1.970515
0.000440 0.575434 24.316450
0.42253 14.885765 83.222456 1.970515
0.000440 1.578236 32.265737
0.56338 14.885765 83.222456 1.970515
0.000440 2.579230 40.587348

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -31.684118 -20.497408 -2.386082
-0.001397 -1.421367 -17.178398
0.14084 -31.684118 -20.497408 -2.386082
-0.001397 -0.419352 -36.102430
0.28169 -31.684118 -20.497408 -2.386082
-0.001397 -0.488510 -65.104579
0.42253 -31.684118 -20.497408 -2.386082
-0.001397 -1.314637 -98.652026
0.56338 -31.684118 -20.497408 -2.386082
-0.001397 -2.141194 -133.263691

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.873585	119.702859	1.760201
0.003078	1.040011	67.226503	
0.14084	15.873585	119.702859	1.760201
0.003078	0.305548	44.195509	
0.28169	15.873585	119.702859	1.760201
0.003078	0.537590	41.545743	
0.42253	15.873585	119.702859	1.760201
0.003078	1.481159	52.644373	
0.56338	15.873585	119.702859	1.760201
0.003078	2.430899	67.242111	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2282

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-53.978711	-36.559151	-2.264357
-0.002773	-1.366182	-17.662911	
0.14084	-53.978711	-36.559151	-2.264357
-0.002773	-0.419254	-30.250767	
0.28169	-53.978711	-36.559151	-2.264357
-0.002773	-0.438645	-62.110676	
0.42253	-53.978711	-36.559151	-2.264357
-0.002773	-1.174612	-105.839868	
0.56338	-53.978711	-36.559151	-2.264357
-0.002773	-1.912915	-155.434011	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.670760	105.059501	1.286608
0.006518	0.775545	81.751938	
0.14084	26.670760	105.059501	1.286608
0.006518	0.218346	66.975081	
0.28169	26.670760	105.059501	1.286608
0.006518	0.395660	60.851068	
0.42253	26.670760	105.059501	1.286608
0.006518	1.081270	79.740674	
0.56338	26.670760	105.059501	1.286608
0.006518	1.767989	104.167779	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-41.784803	-61.964686	-1.637580
-0.004441	-0.979120	-24.056071	
0.14084	-41.784803	-61.964686	-1.637580
-0.004441	-0.295623	-35.592802	
0.28169	-41.784803	-61.964686	-1.637580
-0.004441	-0.321584	-53.904166	
0.42253	-41.784803	-61.964686	-1.637580
-0.004441	-0.861079	-83.733370	
0.56338	-41.784803	-61.964686	-1.637580
-0.004441	-1.400582	-126.157744	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	41.536100	119.702859	1.970515
0.006918	1.163944	87.579713	
0.14084	41.536100	119.702859	1.970515
0.006918	0.337692	70.058924	
0.28169	41.536100	119.702859	1.970515
0.006918	0.575434	73.015939	
0.42253	41.536100	119.702859	1.970515
0.006918	1.578236	100.477865	
0.56338	41.536100	119.702859	1.970515
0.006918	2.579230	135.735932	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-53.978711	-87.120108	-2.386082
-0.004097	-1.421367	-30.562523	
0.14084	-53.978711	-87.120108	-2.386082
-0.004097	-0.419352	-40.177683	
0.28169	-53.978711	-87.120108	-2.386082
-0.004097	-0.488510	-67.511818	
0.42253	-53.978711	-87.120108	-2.386082
-0.004097	-1.314637	-108.553399	
0.56338	-53.978711	-87.120108	-2.386082
-0.004097	-2.141194	-156.774421	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	41.536100	119.702859	1.970515
0.006918	1.163944	87.579713	
0.14084	41.536100	119.702859	1.970515
0.006918	0.337692	70.058924	
0.28169	41.536100	119.702859	1.970515
0.006918	0.575434	73.015939	
0.42253	41.536100	119.702859	1.970515
0.006918	1.578236	100.477865	
0.56338	41.536100	119.702859	1.970515
0.006918	2.579230	135.735932	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2283

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-53.978711	-87.120108	-2.386082
-0.004441	-1.421367	-30.562523	
0.14084	-53.978711	-87.120108	-2.386082
-0.004441	-0.419352	-40.177683	
0.28169	-53.978711	-87.120108	-2.386082
-0.004441	-0.488510	-67.511818	
0.42253	-53.978711	-87.120108	-2.386082
-0.004441	-1.314637	-108.553399	
0.56338	-53.978711	-87.120108	-2.386082
-0.004441	-2.141194	-156.774421	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	41.536100	119.702859	1.970515
0.006918	1.163944	87.579713	
0.14084	41.536100	119.702859	1.970515
0.006918	0.337692	70.058924	
0.28169	41.536100	119.702859	1.970515
0.006918	0.575434	73.015939	
0.42253	41.536100	119.702859	1.970515
0.006918	1.578236	100.477865	
0.56338	41.536100	119.702859	1.970515
0.006918	2.579230	135.735932	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-53.978711	-87.120108	-2.386082
-0.004441	-1.421367	-30.562523	
0.14084	-53.978711	-87.120108	-2.386082
-0.004441	-0.419352	-40.177683	
0.28169	-53.978711	-87.120108	-2.386082
-0.004441	-0.488510	-67.511818	
0.42253	-53.978711	-87.120108	-2.386082
-0.004441	-1.314637	-108.553399	
0.56338	-53.978711	-87.120108	-2.386082
-0.004441	-2.141194	-156.774421	

ELEM 204 ========== LENGTH = 2.976994

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	7.615115	37.089062	0.259020
0.001559	0.290717	43.777760	
0.57751	7.615115	37.089062	0.259020
0.001559	0.182115	29.299193	
0.71834	7.615115	37.089062	0.259020
0.001559	0.073549	12.972916	
0.85917	7.615115	37.089062	0.259020
0.001559	0.081376	2.702418	
1.00000	7.615115	37.089062	0.259020
0.001559	0.290016	2.373109	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-1.452597	-31.066763	-0.497803
-1.70E-05	-0.544819	-59.262790	
0.57751	-1.452597	-31.066763	-0.497803
-1.70E-05	-0.336120	-46.331396	
0.71834	-1.452597	-31.066763	-0.497803
-1.70E-05	-0.127416	-33.496549	
0.85917	-1.452597	-31.066763	-0.497803
-1.70E-05	-0.035112	-21.242775	
1.00000	-1.452597	-31.066763	-0.497803
-1.70E-05	-0.143706	-20.062490	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	7.796200	63.829539	0.470709
0.007758	0.487986	114.855366	
0.57751	7.796200	63.829539	0.470709
0.007758	0.293296	89.810589	
0.71834	7.796200	63.829539	0.470709
0.007758	0.115157	75.977462	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2284

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85917	7.796200	63.829539	0.470709
0.007758	0.129258	82.590967	
1.00000	7.796200	63.829539	0.470709
0.007758	0.421005	102.950492	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.903951	-115.370866	-0.697575
-0.005812	-0.762469	-103.618469	
0.57751	-16.903951	-115.370866	-0.697575
-0.005812	-0.473706	-61.159703	
0.71834	-16.903951	-115.370866	-0.697575
-0.005812	-0.185021	-41.232239	
0.85917	-16.903951	-115.370866	-0.697575
-0.005812	-0.105623	-26.333974	
1.00000	-16.903951	-115.370866	-0.697575
-0.005812	-0.301752	-12.282819	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	9.296231	71.246721	0.700085
0.005641	0.754969	119.465687	
0.57751	9.296231	71.246721	0.700085
0.005641	0.463267	95.218245	
0.71834	9.296231	71.246721	0.700085
0.005641	0.182814	78.929942	
0.85917	9.296231	71.246721	0.700085
0.005641	0.162640	77.256093	
1.00000	9.296231	71.246721	0.700085
0.005641	0.594114	90.421683	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-13.699004	-123.661609	-1.031039
-0.004559	-1.144684	-131.994186	
0.57751	-13.699004	-123.661609	-1.031039
-0.004559	-0.715018	-84.454849	
0.71834	-13.699004	-123.661609	-1.031039
-0.004559	-0.285617	-52.438538	
0.85917	-13.699004	-123.661609	-1.031039
-0.004559	-0.126340	-23.174721	
1.00000	-13.699004	-123.661609	-1.031039
-0.004559	-0.419180	-14.396293	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	14.708381	71.473075	0.935689
0.004687	1.021591	122.321962	
0.57751	14.708381	71.473075	0.935689
0.004687	0.630822	97.029384	
0.71834	14.708381	71.473075	0.935689
0.004687	0.249408	78.408515	
0.85917	14.708381	71.473075	0.935689
0.004687	0.200356	72.057188	
1.00000	14.708381	71.473075	0.935689
0.004687	0.758226	78.479655	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-13.120905	-106.415122	-1.332252
-0.004308	-1.484065	-129.775501	
0.57751	-13.120905	-106.415122	-1.332252
-0.004308	-0.927698	-89.212669	
0.71834	-13.120905	-106.415122	-1.332252
-0.004308	-0.371547	-61.808306	
0.85917	-13.120905	-106.415122	-1.332252
-0.004308	-0.155977	-37.237813	
1.00000	-13.120905	-106.415122	-1.332252
-0.004308	-0.547649	-29.701653	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	0.435103	13.636853	0.264787
0.005066	0.263158	40.877672	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2285

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57751	0.435103	13.636853	0.264787
0.005066	0.154368	38.366715	
0.71834	0.435103	13.636853	0.264787
0.005066	0.059410	45.610927	
0.85917	0.435103	13.636853	0.264787
0.005066	0.055421	70.639816	
1.00000	0.435103	13.636853	0.264787
0.005066	0.179788	104.268148	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-14.168789	-93.971297	-0.298298
-0.005125	-0.331919	-57.516002	
0.57751	-14.168789	-93.971297	-0.298298
-0.005125	-0.209966	-23.199020	
0.71834	-14.168789	-93.971297	-0.298298
-0.005125	-0.088206	-7.868130	
0.85917	-14.168789	-93.971297	-0.298298
-0.005125	-0.071026	-2.135919	
1.00000	-14.168789	-93.971297	-0.298298
-0.005125	-0.181003	-1.952125	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	8.228031	30.015606	0.620616
0.004716	0.664186	59.215983	
0.57751	8.228031	30.015606	0.620616
0.004716	0.406060	52.857332	
0.71834	8.228031	30.015606	0.620616
0.004716	0.160816	55.669223	
0.85917	8.228031	30.015606	0.620616
0.004716	0.123225	75.103194	
1.00000	8.228031	30.015606	0.620616
0.004716	0.466495	102.335059	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-11.663147	-108.815784	-0.820861
-0.005446	-0.920922	-93.045400	
0.57751	-11.663147	-108.815784	-0.820861
-0.005446	-0.238777	-52.699189	
0.71834	-11.663147	-108.815784	-0.820861
-0.005446	-0.238927	-30.254300	
0.85917	-11.663147	-108.815784	-0.820861
-0.005446	-0.117341	-11.492448	
1.00000	-11.663147	-108.815784	-0.820861
-0.005446	-0.376712	-14.649114	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	10.626935	78.644129	0.763213
0.004245	0.824490	152.978838	
0.57751	10.626935	78.644129	0.763213
0.004245	0.505980	125.514136	
0.71834	10.626935	78.644129	0.763213
0.004245	0.196589	104.742122	
0.85917	10.626935	78.644129	0.763213
0.004245	0.149648	96.085798	
1.00000	10.626935	78.644129	0.763213
0.004245	0.570603	94.656275	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-17.701789	-107.100598	-1.005819
-0.004056	-1.123886	-116.322957	
0.57751	-17.701789	-107.100598	-1.005819
-0.004056	-0.704394	-75.407701	
0.71834	-17.701789	-107.100598	-1.005819
-0.004056	-0.285342	-47.436572	
0.85917	-17.701789	-107.100598	-1.005819
-0.004056	-0.136166	-23.193272	
1.00000	-17.701789	-107.100598	-1.005819
-0.004056	-0.455468	-19.037698	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2286

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	11.513447	76.600083	1.020877
0.003552	1.114035	151.202335	
0.57751	11.513447	76.600083	1.020877
0.003552	0.687263	123.786868	
0.71834	11.513447	76.600083	1.020877
0.003552	0.268116	101.899107	
0.85917	11.513447	76.600083	1.020877
0.003552	0.191527	90.114320	
1.00000	11.513447	76.600083	1.020877
0.003552	0.747203	84.224914	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.981532	-90.874125	-1.326865
-0.003895	-1.144841	-114.492842	
0.57751	-16.981532	-90.874125	-1.326865
-0.003895	-0.929977	-79.802068	
0.71834	-16.981532	-90.874125	-1.326865
-0.003895	-0.375904	-55.950332	
0.85917	-16.981532	-90.874125	-1.326865
-0.003895	-0.170539	-34.971988	
1.00000	-16.981532	-90.874125	-1.326865
-0.003895	-0.598031	-31.128742	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	1.238494	16.321607	0.610937
6.79E-06	0.676330	37.615623	
0.57751	1.238494	16.321607	0.610937
6.79E-06	0.420198	30.790848	
0.71834	1.238494	16.321607	0.610937
6.79E-06	0.164089	24.008712	
0.85917	1.238494	16.321607	0.610937
6.79E-06	0.110917	17.320846	
1.00000	1.238494	16.321607	0.610937
6.79E-06	0.416460	10.878564	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-4.147028	-2.592305	-0.750253
-0.000770	-0.841730	-26.120015	
0.57751	-4.147028	-2.592305	-0.750253
-0.000770	-0.527192	-25.079601	
0.71834	-4.147028	-2.592305	-0.750253
-0.000770	-0.212654	-24.107862	
0.85917	-4.147028	-2.592305	-0.750253
-0.000770	-0.092075	-23.162326	
1.00000	-4.147028	-2.592305	-0.750253
-0.000770	-0.348208	-22.252140	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	12.323919	31.503858	0.979888
0.000195	1.087591	62.577627	
0.57751	12.323919	31.503858	0.979888
0.000195	0.676881	49.588153	
0.71834	12.323919	31.503858	0.979888
0.000195	0.266783	37.121433	
0.85917	12.323919	31.503858	0.979888
0.000195	0.172627	26.380417	
1.00000	12.323919	31.503858	0.979888
0.000195	0.703683	16.629682	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-5.889904	-12.986456	-1.266750
-0.001560	-1.421142	-54.008794	
0.57751	-5.889904	-12.986456	-1.266750
-0.001560	-0.890203	-49.446189	
0.71834	-5.889904	-12.986456	-1.266750
-0.001560	-0.359287	-46.115783	
0.85917	-5.889904	-12.986456	-1.266750
-0.001560	-0.145089	-43.487847	
1.00000	-5.889904	-12.986456	-1.266750
-0.001560	-0.555759	-41.527042	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2287

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	8.608502	38.616767	1.112917
0.000310	1.233487	74.480774	
0.57751	8.608502	38.616767	1.112917
0.000310	0.767032	63.337051	
0.71834	8.608502	38.616767	1.112917
0.000310	0.301423	53.313122	
0.85917	8.608502	38.616767	1.112917
0.000310	0.193379	45.800550	
1.00000	8.608502	38.616767	1.112917
0.000310	0.800325	45.681422	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-8.432393	-57.474137	-1.448643
-0.001992	-1.630082	-94.266188	
0.57751	-8.432393	-57.474137	-1.448643
-0.001992	-1.023080	-71.237667	
0.71834	-8.432393	-57.474137	-1.448643
-0.001992	-0.416309	-50.170922	
0.85917	-8.432393	-57.474137	-1.448643
-0.001992	-0.166313	-32.804885	
1.00000	-8.432393	-57.474137	-1.448643
-0.001992	-0.632874	-35.289032	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	8.897819	70.689839	1.104772
0.003722	1.202639	149.249552	
0.57751	8.897819	70.689839	1.104772
0.003722	0.740912	124.279550	
0.71834	8.897819	70.689839	1.104772
0.003722	0.288207	105.763594	
0.85917	8.897819	70.689839	1.104772
0.003722	0.196661	98.985721	
1.00000	8.897819	70.689839	1.104772
0.003722	0.771965	98.157972	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-19.016217	-89.943875	-1.374087
-0.004517	-1.540046	-108.038814	
0.57751	-19.016217	-89.943875	-1.374087
-0.004517	-0.966084	-74.152493	
0.71834	-19.016217	-89.943875	-1.374087
-0.004517	-0.392406	-52.911530	
0.85917	-19.016217	-89.943875	-1.374087
-0.004517	-0.187805	-34.556545	
1.00000	-19.016217	-89.943875	-1.374087
-0.004517	-0.650283	-32.921730	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	15.317186	32.918376	0.301974
0.001658	0.338528	40.191183	
0.57751	15.317186	32.918376	0.301974
0.001658	0.211904	26.644595	
0.71834	15.317186	32.918376	0.301974
0.001658	0.085319	13.405704	
0.85917	15.317186	32.918376	0.301974
0.001658	0.106495	3.833750	
1.00000	15.317186	32.918376	0.301974
0.001658	0.389182	2.739249	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-2.499654	-43.468689	-0.673538
-1.27E-05	-0.739240	-89.778611	
0.57751	-2.499654	-43.468689	-0.673538
-1.27E-05	-0.456780	-71.798069	
0.71834	-2.499654	-43.468689	-0.673538
-1.27E-05	-0.174212	-54.077498	
0.85917	-2.499654	-43.468689	-0.673538
-1.27E-05	-0.041020	-38.466300	
1.00000	-2.499654	-43.468689	-0.673538
-1.27E-05	-0.167895	-31.582440	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2288

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	14.933032	57.092412	0.583608
0.007796	0.614088	107.519452	
0.57751	14.933032	57.092412	0.583608
0.007796	0.377396	85.861309	
0.71834	14.933032	57.092412	0.583608
0.007796	0.148236	76.649154	
0.85917	14.933032	57.092412	0.583608
0.007796	0.178775	86.614720	
1.00000	14.933032	57.092412	0.583608
0.007796	0.575062	107.386706	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-18.936841	-125.915082	-0.970171
-0.006094	-1.060394	-138.648288	
0.57751	-18.936841	-125.915082	-0.970171
-0.006094	-0.657853	-87.812012	
0.71834	-18.936841	-125.915082	-0.970171
-0.006094	-0.256314	-61.010410	
0.85917	-18.936841	-125.915082	-0.970171
-0.006094	-0.121931	-40.251339	
1.00000	-18.936841	-125.915082	-0.970171
-0.006094	-0.365796	-25.701517	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	15.700755	68.335258	0.994596
0.005841	1.084046	125.759533	
0.57751	15.700755	68.335258	0.994596
0.005841	0.672624	100.737582	
0.71834	15.700755	68.335258	0.994596
0.005841	0.266352	84.860598	
0.85917	15.700755	68.335258	0.994596
0.005841	0.229543	83.499455	
1.00000	15.700755	68.335258	0.994596
0.005841	0.866668	98.502041	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.567518	-127.756177	-1.518864
-0.004852	-1.685307	-153.657285	
0.57751	-16.567518	-127.756177	-1.518864
-0.004852	-1.051321	-101.788141	
0.71834	-16.567518	-127.756177	-1.518864
-0.004852	-0.419891	-67.234995	
0.85917	-16.567518	-127.756177	-1.518864
-0.004852	-0.167916	-36.938277	
1.00000	-16.567518	-127.756177	-1.518864
-0.004852	-0.584524	-25.540850	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	20.341683	73.533684	1.341816
0.004854	1.476056	134.260717	
0.57751	20.341683	73.533684	1.341816
0.004854	0.918133	106.678922	
0.71834	20.341683	73.533684	1.341816
0.004854	0.364432	86.774063	
0.85917	20.341683	73.533684	1.341816
0.004854	0.284789	79.160439	
1.00000	20.341683	73.533684	1.341816
0.004854	1.097746	85.800307	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.057233	-110.310860	-1.937678
-0.004560	-2.155101	-148.369117	
0.57751	-16.057233	-110.310860	-1.937678
-0.004560	-1.344851	-103.782874	
0.71834	-16.057233	-110.310860	-1.937678
-0.004560	-0.536641	-73.736049	
0.85917	-16.057233	-110.310860	-1.937678
-0.004560	-0.212689	-47.898617	
1.00000	-16.057233	-110.310860	-1.937678
-0.004560	-0.774745	-38.619306	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2289

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	0.392369	14.713912	0.387435
0.004200	0.247457	46.938817	
0.57751	0.392369	14.713912	0.387435
0.004200	0.247457	43.592029	
0.71834	0.392369	14.713912	0.387435
0.004200	0.095794	49.595158	
0.85917	0.392369	14.713912	0.387435
0.004200	0.069064	71.832124	
1.00000	0.392369	14.713912	0.387435
0.004200	0.249500	99.472131	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.683675	-81.249480	-0.431302
-0.004505	-0.480165	-54.622843	
0.57751	-16.683675	-81.249480	-0.431302
-0.004505	-0.302341	-22.374944	
0.71834	-16.683675	-81.249480	-0.431302
-0.004505	-0.128182	-7.417904	
0.85917	-16.683675	-81.249480	-0.431302
-0.004505	-0.084714	-2.231483	
1.00000	-16.683675	-81.249480	-0.431302
-0.004505	-0.246266	-2.097861	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	7.909644	36.544904	0.954432
0.004008	1.041696	80.134333	
0.57751	7.909644	36.544904	0.954432
0.004008	0.646845	68.785256	
0.71834	7.909644	36.544904	0.954432
0.004008	0.252599	66.230693	
0.85917	7.909644	36.544904	0.954432
0.004008	0.177167	77.961268	
1.00000	7.909644	36.544904	0.954432
0.004008	0.696071	100.481082	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-14.034013	-92.761545	-1.237022
-0.004938	-1.383684	-83.722875	
0.57751	-14.034013	-92.761545	-1.237022
-0.004938	-0.867922	-46.642216	
0.71834	-14.034013	-92.761545	-1.237022
-0.004938	-0.354192	-26.095984	
0.85917	-14.034013	-92.761545	-1.237022
-0.004938	-0.160701	-10.809455	
1.00000	-14.034013	-92.761545	-1.237022
-0.004938	-0.559733	-13.921366	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	12.202262	79.454987	1.091774
0.003554	1.198195	163.577862	
0.57751	12.202262	79.454987	1.091774
0.003554	0.743839	133.649380	
0.71834	12.202262	79.454987	1.091774
0.003554	0.292624	109.685153	
0.85917	12.202262	79.454987	1.091774
0.003554	0.213640	95.925761	
1.00000	12.202262	79.454987	1.091774
0.003554	0.847898	92.571970	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-19.573345	-98.929772	-1.511819
-0.003447	-1.689716	-119.483745	
0.57751	-19.573345	-98.929772	-1.511819
-0.003447	-1.057546	-79.486956	
0.71834	-19.573345	-98.929772	-1.511819
-0.003447	-0.426571	-50.499698	
0.85917	-19.573345	-98.929772	-1.511819
-0.003447	-0.176235	-26.279286	
1.00000	-19.573345	-98.929772	-1.511819
-0.003447	-0.633241	-19.409816	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2290

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	13.102416	81.710658	1.488392
0.002978	1.641810	167.680287	
0.57751	13.102416	81.710658	1.488392
0.002978	1.020678	136.401830	
0.71834	13.102416	81.710658	1.488392
0.002978	0.402023	110.186630	
0.85917	13.102416	81.710658	1.488392
0.002978	0.274730	92.559975	
1.00000	13.102416	81.710658	1.488392
0.002978	1.098243	83.929638	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-19.729326	-85.316768	-1.962415
-0.003410	-2.193926	-119.198283	
0.57751	-19.729326	-85.316768	-1.962415
-0.003410	-1.372175	-84.815985	
0.71834	-19.729326	-85.316768	-1.962415
-0.003410	-0.551538	-59.708368	
0.85917	-19.729326	-85.316768	-1.962415
-0.003410	-0.231229	-38.455695	
1.00000	-19.729326	-85.316768	-1.962415
-0.003410	-0.854667	-32.228987	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	2.111450	22.639075	0.928830
3.97E-06	1.030503	49.326331	
0.57751	2.111450	22.639075	0.928830
3.97E-06	0.641097	40.135620	
0.71834	2.111450	22.639075	0.928830
3.97E-06	0.251697	31.099418	
0.85917	2.111450	22.639075	0.928830
3.97E-06	0.146723	22.428457	
1.00000	2.111450	22.639075	0.928830
3.97E-06	0.598699	14.143727	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-7.851304	-5.268047	-1.076081
-0.000804	-1.204874	-30.220282	
0.57751	-7.851304	-5.268047	-1.076081
-0.000804	-0.753485	-28.336234	
0.71834	-7.851304	-5.268047	-1.076081
-0.000804	-0.301479	-26.647742	
0.85917	-7.851304	-5.268047	-1.076081
-0.000804	-0.137521	-25.324800	
1.00000	-7.851304	-5.268047	-1.076081
-0.000804	-0.527167	-24.318368	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	13.523838	43.511337	1.483988
0.000124	1.651336	83.804974	
0.57751	13.523838	43.511337	1.483988
0.000124	1.029292	66.183073	
0.71834	13.523838	43.511337	1.483988
0.000124	0.407352	49.107438	
0.85917	13.523838	43.511337	1.483988
0.000124	0.254618	33.424816	
1.00000	13.523838	43.511337	1.483988
0.000124	1.029946	19.540635	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-9.534219	-15.057617	-1.846764
-0.001562	-2.065650	-57.209706	
0.57751	-9.534219	-15.057617	-1.846764
-0.001562	-1.291241	-51.674355	
0.71834	-9.534219	-15.057617	-1.846764
-0.001562	-0.515969	-47.145006	
0.85917	-9.534219	-15.057617	-1.846764
-0.001562	-0.215407	-44.385777	
1.00000	-9.534219	-15.057617	-1.846764
-0.001562	-0.583710	-43.564491	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2291

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	9.355714	50.445134	1.712963
5.63E-06	1.906076	103.529345	
0.57751	9.355714	50.445134	1.712963
5.63E-06	1.187732	85.280474	
0.71834	9.355714	50.445134	1.712963
5.63E-06	0.469164	67.911906	
0.85917	9.355714	50.445134	1.712963
5.63E-06	0.283238	53.841591	
1.00000	9.355714	50.445134	1.712963
5.63E-06	1.178205	49.771947	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-13.578395	-49.282279	-2.130764
-0.001657	-2.392226	-87.154958	
0.57751	-13.578395	-49.282279	-2.130764
-0.001657	-1.498795	-67.559297	
0.71834	-13.578395	-49.282279	-2.130764
-0.001657	-0.603337	-48.821524	
0.85917	-13.578395	-49.282279	-2.130764
-0.001657	-0.248579	-34.923254	
1.00000	-13.578395	-49.282279	-2.130764
-0.001657	-0.966572	-37.237940	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	9.914422	78.666468	1.636390
0.002820	1.802876	171.170334	
0.57751	9.914422	78.666468	1.636390
0.002820	1.119790	141.385339	
0.71834	9.914422	78.666468	1.636390
0.002820	0.439557	117.175987	
0.85917	9.914422	78.666468	1.636390
0.002820	0.281772	102.787719	
1.00000	9.914422	78.666468	1.636390
0.002820	1.136305	96.984027	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-23.616295	-80.225534	-2.036120
-0.003751	-2.279704	-108.024998	
0.57751	-23.616295	-80.225534	-2.036120
-0.003751	-1.427630	-76.061228	
0.71834	-23.616295	-80.225534	-2.036120
-0.003751	-0.575952	-54.274254	
0.85917	-23.616295	-80.225534	-2.036120
-0.003751	-0.256445	-37.368790	
1.00000	-23.616295	-80.225534	-2.036120
-0.003751	-0.942043	-34.972270	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	14.708381	78.644129	1.112917
0.007758	1.233487	152.907838	
0.57751	14.708381	78.644129	1.112917
0.007758	0.767032	125.514136	
0.71834	14.708381	78.644129	1.112917
0.007758	0.301423	105.763594	
0.85917	14.708381	78.644129	1.112917
0.007758	0.200356	98.985721	
1.00000	14.708381	78.644129	1.112917
0.007758	0.800325	104.268148	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-19.016217	-123.661609	-1.448643
-0.005812	-1.630082	-131.994186	
0.57751	-19.016217	-123.661609	-1.448643
-0.005812	-1.023080	-89.212669	
0.71834	-19.016217	-123.661609	-1.448643
-0.005812	-0.416309	-61.808306	
0.85917	-19.016217	-123.661609	-1.448643
-0.005812	-0.187805	-43.487847	
1.00000	-19.016217	-123.661609	-1.448643
-0.005812	-0.650283	-41.527042	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2292

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	20.341683	81.710658	1.712963
0.007796	1.906076	171.170334	
0.57751	20.341683	81.710658	1.712963
0.007796	1.187732	141.385339	
0.71834	20.341683	81.710658	1.712963
0.007796	0.469164	117.175987	
0.85917	20.341683	81.710658	1.712963
0.007796	0.284789	102.787719	
1.00000	20.341683	81.710658	1.712963
0.007796	1.178205	107.386706	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-23.616295	-127.756177	-2.130764
-0.006094	-2.392226	-153.657285	
0.57751	-23.616295	-127.756177	-2.130764
-0.006094	-1.498795	-103.782874	
0.71834	-23.616295	-127.756177	-2.130764
-0.006094	-0.603337	-73.736049	
0.85917	-23.616295	-127.756177	-2.130764
-0.006094	-0.256445	-47.898617	
1.00000	-23.616295	-127.756177	-2.130764
-0.006094	-0.966572	-43.564491	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	20.341683	81.710658	1.712963
0.007796	1.906076	171.170334	
0.57751	20.341683	81.710658	1.712963
0.007796	1.187732	141.385339	
0.71834	20.341683	81.710658	1.712963
0.007796	0.469164	117.175987	
0.85917	20.341683	81.710658	1.712963
0.007796	0.284789	102.787719	
1.00000	20.341683	81.710658	1.712963
0.007796	1.178205	107.386706	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-23.616295	-127.756177	-2.130764
-0.006094	-2.392226	-153.657285	
0.57751	-23.616295	-127.756177	-2.130764
-0.006094	-1.498795	-103.782874	
0.71834	-23.616295	-127.756177	-2.130764
-0.006094	-0.603337	-73.736049	
0.85917	-23.616295	-127.756177	-2.130764
-0.006094	-0.256445	-47.898617	
1.00000	-23.616295	-127.756177	-2.130764
-0.006094	-0.966572	-43.564491	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	20.341683	81.710658	1.712963
0.007796	1.906076	171.170334	
0.57751	20.341683	81.710658	1.712963
0.007796	1.187732	141.385339	
0.71834	20.341683	81.710658	1.712963
0.007796	0.469164	117.175987	
0.85917	20.341683	81.710658	1.712963
0.007796	0.284789	102.787719	
1.00000	20.341683	81.710658	1.712963
0.007796	1.178205	107.386706	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-23.616295	-127.756177	-2.130764
-0.006094	-2.392226	-153.657285	
0.57751	-23.616295	-127.756177	-2.130764
-0.006094	-1.498795	-103.782874	
0.71834	-23.616295	-127.756177	-2.130764
-0.006094	-0.603337	-73.736049	
0.85917	-23.616295	-127.756177	-2.130764
-0.006094	-0.256445	-47.898617	
1.00000	-23.616295	-127.756177	-2.130764
-0.006094	-0.966572	-43.564491	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2293

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 205 ========== LENGTH = 2.977033

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.606667	36.694411	0.322753
0.001432	0.186051	2.369566	
0.14083	7.606667	36.694411	0.322753
0.001432	0.051515	6.846093	
0.28166	7.606667	36.694411	0.322753
0.001432	0.116023	19.346159	
0.42249	7.606667	36.694411	0.322753
0.001432	0.271635	32.243030	
0.56332	7.606667	36.694411	0.322753
0.001432	0.427265	45.161381	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.423044	-30.980514	-0.371212
-7.18E-06	-0.195261	-20.073698	
0.14083	-1.423044	-30.980514	-0.371212
-7.18E-06	-0.039574	-34.647269	
0.28166	-1.423044	-30.980514	-0.371212
-7.18E-06	0.085334	-49.845728	
0.42249	-1.423044	-30.980514	-0.371212
-7.18E-06	-0.220391	-65.176794	
0.56332	-1.423044	-30.980514	-0.371212
-7.18E-06	-0.355693	-80.531918	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.419661	129.089258	0.413390
0.007548	0.244535	103.325177	
0.14083	7.419661	129.089258	0.413390
0.007548	0.183954	83.859842	
0.28166	7.419661	129.089258	0.413390
0.007548	0.183957	72.267675	
0.42249	7.419661	129.089258	0.413390
0.007548	0.434124	83.464174	
0.56332	7.419661	129.089258	0.413390
0.007548	0.700634	104.648009	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.812840	-53.403966	-0.643982
-0.005882	-0.380991	-12.284628	
0.14083	-18.812840	-53.403966	-0.643982
-0.005882	-0.113114	-33.408433	
0.28166	-18.812840	-53.403966	-0.643982
-0.005882	-0.114693	-56.126692	
0.42249	-18.812840	-53.403966	-0.643982
-0.005882	-0.287288	-86.745304	
0.56332	-18.812840	-53.403966	-0.643982
-0.005882	-0.460597	-137.866787	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.104715	115.545861	0.648439
0.005475	0.371242	90.668329	
0.14083	9.104715	115.545861	0.648439
0.005475	0.107235	92.532406	
0.28166	9.104715	115.545861	0.648439
0.005475	0.290078	102.820577	
0.42249	9.104715	115.545861	0.648439
0.005475	0.708851	129.412051	
0.56332	9.104715	115.545861	0.648439
0.005475	1.138800	162.854456	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.010578	-81.952083	-1.031215
-0.004149	-0.591622	-14.367787	
0.14083	-15.010578	-81.952083	-1.031215
-0.004149	-0.160798	-39.347642	
0.28166	-15.010578	-81.952083	-1.031215
-0.004149	-0.181128	-66.421091	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2294

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42249	-15.010578	-81.952083	-1.031215
-0.004149	-0.452351	-98.849384	
0.56332	-15.010578	-81.952083	-1.031215
-0.004149	-0.724235	-145.256205	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.558871	108.265975	0.888752
0.004549	0.503395	78.691304	
0.14083	14.558871	108.265975	0.888752
0.004549	0.137451	77.353789	
0.28166	14.558871	108.265975	0.888752
0.004549	0.377411	86.247710	
0.42249	14.558871	108.265975	0.888752
0.004549	0.927940	108.992462	
0.56332	14.558871	108.265975	0.888752
0.004549	1.487753	137.697125	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.216424	-71.913133	-1.339986
-0.004111	-0.760311	-29.681125	
0.14083	-14.216424	-71.913133	-1.339986
-0.004111	-0.199786	-50.306311	
0.28166	-14.216424	-71.913133	-1.339986
-0.004111	-0.249118	-72.793086	
0.42249	-14.216424	-71.913133	-1.339986
-0.004111	-0.621150	-100.055594	
0.56332	-14.216424	-71.913133	-1.339986
-0.004111	-0.993776	-139.580007	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.123560	68.829273	0.155184
0.004861	0.092093	104.578285	
0.14083	0.123560	68.829273	0.155184
0.004861	0.036424	93.891096	
0.28166	0.123560	68.829273	0.155184
0.004861	0.099529	83.817349	
0.42249	0.123560	68.829273	0.155184
0.004861	0.246808	92.499278	
0.56332	0.123560	68.829273	0.155184
0.004861	0.407849	109.365772	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.805264	-42.475620	-0.391202
-0.004918	-0.249576	-1.940563	
0.14083	-15.805264	-42.475620	-0.391202
-0.004918	-0.087139	-3.936606	
0.28166	-15.805264	-42.475620	-0.391202
-0.004918	-0.046810	-6.620766	
0.42249	-15.805264	-42.475620	-0.391202
-0.004918	-0.171833	-15.578628	
0.56332	-15.805264	-42.475620	-0.391202
-0.004918	-0.176907	-42.270409	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.018126	81.397204	0.537680
0.004525	0.308024	102.625625	
0.14083	8.018126	81.397204	0.537680
0.004525	0.090604	97.824980	
0.28166	8.018126	81.397204	0.537680
0.004525	0.253918	95.035491	
0.42249	8.018126	81.397204	0.537680
0.004525	0.633911	111.928115	
0.56332	8.018126	81.397204	0.537680
0.004525	1.026623	136.193669	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.210020	-61.225251	-0.943130
-0.005052	-0.556249	-14.637678	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2295

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14083	-13.210020	-61.225251	-0.943130
-0.005052	-0.162338	-21.170134	
0.28166	-13.210020	-61.225251	-0.943130
-0.005052	-0.151849	-28.436731	
0.42249	-13.210020	-61.225251	-0.943130
-0.005052	-0.377267	-42.229217	
0.56332	-13.210020	-61.225251	-0.943130
-0.005052	-0.602706	-72.891637	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.491265	114.424413	0.637209
0.004332	0.358078	94.846979	
0.14083	10.491265	114.424413	0.637209
0.004332	0.097591	86.492215	
0.28166	10.491265	114.424413	0.637209
0.004332	0.298941	95.772514	
0.42249	10.491265	114.424413	0.637209
0.004332	0.742947	119.273665	
0.56332	10.491265	114.424413	0.637209
0.004332	1.195973	148.713565	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.771403	-73.516218	-1.085385
-0.003668	-0.625345	-19.015293	
0.14083	-18.771403	-73.516218	-1.085385
-0.003668	-0.171706	-26.211913	
0.28166	-18.771403	-73.516218	-1.085385
-0.003668	-0.183746	-54.679933	
0.42249	-18.771403	-73.516218	-1.085385
-0.003668	-0.450743	-87.846563	
0.56332	-18.771403	-73.516218	-1.085385
-0.003668	-0.717760	-133.131566	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.403113	106.637568	0.888912
0.003624	0.495416	84.391070	
0.14083	11.403113	106.637568	0.888912
0.003624	0.128293	72.696071	
0.28166	11.403113	106.637568	0.888912
0.003624	0.391119	80.398782	
0.42249	11.403113	106.637568	0.888912
0.003624	0.972629	100.304634	
0.56332	11.403113	106.637568	0.888912
0.003624	1.561692	125.123421	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.885669	-62.758025	-1.409068
-0.003750	-0.802275	-31.112668	
0.14083	-17.885669	-62.758025	-1.409068
-0.003750	-0.212721	-36.778767	
0.28166	-17.885669	-62.758025	-1.409068
-0.003750	-0.256251	-60.156410	
0.42249	-17.885669	-62.758025	-1.409068
-0.003750	-0.628813	-87.403501	
0.56332	-17.885669	-62.758025	-1.409068
-0.003750	-1.001376	-124.660609	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.243578	16.502838	0.549124
9.68E-06	0.300457	10.887293	
0.14083	1.243578	16.502838	0.549124
9.68E-06	0.070260	5.821869	
0.28166	1.243578	16.502838	0.549124
9.68E-06	0.220475	3.272105	
0.42249	1.243578	16.502838	0.549124
9.68E-06	0.549905	2.141048	
0.56332	1.243578	16.502838	0.549124
9.68E-06	0.879352	2.869621	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2296

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.161676	-2.545717	-0.785813
-0.001093	-0.438497	-22.256053	
0.14083	-4.161676	-2.545717	-0.785813
-0.001093	-0.109086	-21.392878	
0.28166	-4.161676	-2.545717	-0.785813
-0.001093	-0.160011	-20.614200	
0.42249	-4.161676	-2.545717	-0.785813
-0.001093	-0.390231	-19.937440	
0.56332	-4.161676	-2.545717	-0.785813
-0.001093	-0.620456	-19.323272	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.333613	33.748477	0.930396
0.000188	0.515213	16.656513	
0.14083	12.333613	33.748477	0.930396
0.000188	0.125936	8.785998	
0.28166	12.333613	33.748477	0.930396
0.000188	0.368931	6.172711	
0.42249	12.333613	33.748477	0.930396
0.000188	0.919984	8.490610	
0.56332	12.333613	33.748477	0.930396
0.000188	1.471178	11.911886	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.973001	-11.293842	-1.314954
-0.001999	-0.734108	-41.535014	
0.14083	-5.973001	-11.293842	-1.314954
-0.001999	-0.182919	-40.573915	
0.28166	-5.973001	-11.293842	-1.314954
-0.001999	-0.265460	-41.387863	
0.42249	-5.973001	-11.293842	-1.314954
-0.001999	-0.655500	-43.401210	
0.56332	-5.973001	-11.293842	-1.314954
-0.001999	-1.045578	-47.166145	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.670759	42.152693	1.019178
0.000298	0.562364	45.703245	
0.14083	8.670759	42.152693	1.019178
0.000298	0.135702	56.212092	
0.28166	8.670759	42.152693	1.019178
0.000298	0.433332	71.679418	
0.42249	8.670759	42.152693	1.019178
0.000298	1.087644	92.875918	
0.56332	8.670759	42.152693	1.019178
0.000298	1.742886	115.019709	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.570793	-55.018511	-1.563284
-0.001831	-0.878982	-35.286361	
0.14083	-8.570793	-55.018511	-1.563284
-0.001831	-0.223691	-40.958435	
0.28166	-8.570793	-55.018511	-1.563284
-0.001831	-0.292863	-46.840428	
0.42249	-8.570793	-55.018511	-1.563284
-0.001831	-0.720142	-53.477603	
0.56332	-8.570793	-55.018511	-1.563284
-0.001831	-1.147449	-61.931502	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.757453	106.415291	0.930990
0.003791	0.516666	98.360388	
0.14083	8.757453	106.415291	0.930990
0.003791	0.133399	81.091406	
0.28166	8.757453	106.415291	0.930990
0.003791	0.413071	78.849594	
0.42249	8.757453	106.415291	0.930990
0.003791	1.031226	95.201335	
0.56332	8.757453	106.415291	0.930990
0.003791	1.658454	117.414636	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2297

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.110544	-56.624454	-1.500558
-0.004479	-0.858887	-32.909584	
0.14083	-20.110544	-56.624454	-1.500558
-0.004479	-0.231612	-34.452606	
0.28166	-20.110544	-56.624454	-1.500558
-0.004479	-0.271198	-52.123946	
0.42249	-20.110544	-56.624454	-1.500558
-0.004479	-0.661275	-75.741747	
0.56332	-20.110544	-56.624454	-1.500558
-0.004479	-1.051603	-111.184796	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.299870	32.577886	0.367591
0.001563	0.211154	2.733146	
0.14083	15.299870	32.577886	0.367591
0.001563	0.057334	6.330401	
0.28166	15.299870	32.577886	0.367591
0.001563	0.155234	22.052644	
0.42249	15.299870	32.577886	0.367591
0.001563	0.367211	39.598568	
0.56332	15.299870	32.577886	0.367591
0.001563	0.578833	57.509467	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.473025	-43.378984	-0.504676
-4.26E-06	-0.267046	-31.575323	
0.14083	-2.473025	-43.378984	-0.504676
-4.26E-06	-0.054971	-33.366728	
0.28166	-2.473025	-43.378984	-0.504676
-4.26E-06	-0.097891	-44.749414	
0.42249	-2.473025	-43.378984	-0.504676
-4.26E-06	-0.251294	-57.837863	
0.56332	-2.473025	-43.378984	-0.504676
-4.26E-06	-0.405305	-71.253725	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.476749	120.312571	0.522505
0.008114	0.323932	107.445867	
0.14083	14.476749	120.312571	0.522505
0.008114	0.105593	85.384207	
0.28166	14.476749	120.312571	0.522505
0.008114	0.255404	77.135675	
0.42249	14.476749	120.312571	0.522505
0.008114	0.620909	91.550225	
0.56332	14.476749	120.312571	0.522505
0.008114	1.000841	117.054269	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.909090	-65.202281	-0.917696
-0.005867	-0.539841	-25.684962	
0.14083	-21.909090	-65.202281	-0.917696
-0.005867	-0.154672	-31.511006	
0.28166	-21.909090	-65.202281	-0.917696
-0.005867	-0.143786	-48.896105	
0.42249	-21.909090	-65.202281	-0.917696
-0.005867	-0.358831	-77.357054	
0.56332	-21.909090	-65.202281	-0.917696
-0.005867	-0.575773	-126.181669	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.431162	113.200985	0.943141
0.006087	0.549578	98.538449	
0.14083	15.431162	113.200985	0.943141
0.006087	0.154029	93.834819	
0.28166	15.431162	113.200985	0.943141
0.006087	0.418978	102.786573	
0.42249	15.431162	113.200985	0.943141
0.006087	1.038666	128.198957	
0.56332	15.431162	113.200985	0.943141
0.006087	1.667372	161.494363	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2298

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.708689	-85.019409	-1.507599
-0.004350	-0.861042	-25.518090	
0.14083	-18.708689	-85.019409	-1.507599
-0.004350	-0.227509	-37.832434	
0.28166	-18.708689	-85.019409	-1.507599
-0.004350	-0.261771	-60.521316	
0.42249	-18.708689	-85.019409	-1.507599
-0.004350	-0.654563	-91.354133	
0.56332	-18.708689	-85.019409	-1.507599
-0.004350	-1.048650	-136.645489	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.126679	110.832397	1.304280
0.005058	0.747391	85.839763	
0.14083	20.126679	110.832397	1.304280
0.005058	0.200436	78.416495	
0.28166	20.126679	110.832397	1.304280
0.005058	0.535639	86.505321	
0.42249	20.126679	110.832397	1.304280
0.005058	1.328639	108.764916	
0.56332	20.126679	110.832397	1.304280
0.005058	2.128838	137.804064	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.852509	-75.003388	-1.915113
-0.004261	-1.082163	-38.604967	
0.14083	-17.852509	-75.003388	-1.915113
-0.004261	-0.278363	-50.772017	
0.28166	-17.852509	-75.003388	-1.915113
-0.004261	-0.363463	-74.579455	
0.42249	-17.852509	-75.003388	-1.915113
-0.004261	-0.909810	-105.286554	
0.56332	-17.852509	-75.003388	-1.915113
-0.004261	-1.453750	-148.277527	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.089108	59.442805	0.273749
0.004405	0.170287	99.510692	
0.14083	0.089108	59.442805	0.273749
0.004405	0.054980	91.503155	
0.28166	0.089108	59.442805	0.273749
0.004405	0.144296	84.020733	
0.42249	0.089108	59.442805	0.273749
0.004405	0.370325	91.247344	
0.56332	0.089108	59.442805	0.273749
0.004405	0.606655	106.125423	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.796182	-39.160157	-0.571910
-0.004110	-0.353922	-2.083589	
0.14083	-18.796182	-39.160157	-0.571910
-0.004110	-0.113733	-3.897338	
0.28166	-18.796182	-39.160157	-0.571910
-0.004110	-0.079032	-6.463434	
0.42249	-18.796182	-39.160157	-0.571910
-0.004110	-0.191299	-15.755446	
0.56332	-18.796182	-39.160157	-0.571910
-0.004110	-0.304797	-39.232342	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.695910	79.317177	0.878198
0.004203	0.509198	100.524281	
0.14083	7.695910	79.317177	0.878198
0.004203	0.141031	95.130668	
0.28166	7.695910	79.317177	0.878198
0.004203	0.369522	92.474986	
0.42249	7.695910	79.317177	0.878198
0.004203	0.934351	104.472546	
0.56332	7.695910	79.317177	0.878198
0.004203	1.507358	124.121902	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2299

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.102853	-52.861337	-1.374675
-0.004377	-0.798600	-13.904995	
0.14083	-16.102853	-52.861337	-1.374675
-0.004377	-0.221219	-22.500226	
0.28166	-16.102853	-52.861337	-1.374675
-0.004377	-0.245320	-32.575008	
0.42249	-16.102853	-52.861337	-1.374675
-0.004377	-0.611265	-49.276015	
0.56332	-16.102853	-52.861337	-1.374675
-0.004377	-0.978449	-79.620784	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.066581	106.629174	0.985371
0.003934	0.559400	92.585342	
0.14083	12.066581	106.629174	0.985371
0.003934	0.147868	84.570815	
0.28166	12.066581	106.629174	0.985371
0.003934	0.435752	96.962979	
0.42249	12.066581	106.629174	0.985371
0.003934	1.093330	120.094243	
0.56332	12.066581	106.629174	0.985371
0.003934	1.755443	148.551642	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.907748	-73.108983	-1.584437
-0.002959	-0.902080	-19.376976	
0.14083	-20.907748	-73.108983	-1.584437
-0.002959	-0.236809	-25.813859	
0.28166	-20.907748	-73.108983	-1.584437
-0.002959	-0.279312	-53.977636	
0.42249	-20.907748	-73.108983	-1.584437
-0.002959	-0.690581	-87.229602	
0.56332	-20.907748	-73.108983	-1.584437
-0.002959	-1.103190	-129.460295	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.997759	104.632498	1.371935
0.003295	0.770458	83.949555	
0.14083	12.997759	104.632498	1.371935
0.003295	0.196365	71.486796	
0.28166	12.997759	104.632498	1.371935
0.003295	0.562503	81.909019	
0.42249	12.997759	104.632498	1.371935
0.003295	1.407762	101.942109	
0.56332	12.997759	104.632498	1.371935
0.003295	2.256769	126.374946	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.872243	-63.665738	-2.028609
-0.003190	-1.144434	-32.208698	
0.14083	-20.872243	-63.665738	-2.028609
-0.003190	-0.293433	-37.342211	
0.28166	-20.872243	-63.665738	-2.028609
-0.003190	-0.390285	-64.774972	
0.42249	-20.872243	-63.665738	-2.028609
-0.003190	-0.964043	-97.057080	
0.56332	-20.872243	-63.665738	-2.028609
-0.003190	-1.538753	-136.931357	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.125335	22.870527	0.853111
6.99E-06	0.468656	14.156342	
0.14083	2.125335	22.870527	0.853111
6.99E-06	0.110905	7.074328	
0.28166	2.125335	22.870527	0.853111
6.99E-06	0.310261	3.983664	
0.42249	2.125335	22.870527	0.853111
6.99E-06	0.775241	4.533301	
0.56332	2.125335	22.870527	0.853111
6.99E-06	1.239620	5.612090	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2300

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.890771	-5.280224	-1.107091
-0.001168	-0.615652	-24.325273	
0.14083	-7.890771	-5.280224	-1.107091
-0.001168	-0.151300	-23.930294	
0.28166	-7.890771	-5.280224	-1.107091
-0.001168	-0.246732	-26.524274	
0.42249	-7.890771	-5.280224	-1.107091
-0.001168	-0.641367	-32.344796	
0.56332	-7.890771	-5.280224	-1.107091
-0.001168	-0.962092	-38.532123	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.539068	45.090412	1.437709
0.000131	0.798551	19.563635	
0.14083	13.539068	45.090412	1.437709
0.000131	0.195874	9.475427	
0.28166	13.539068	45.090412	1.437709
0.000131	0.522604	6.924143	
0.42249	13.539068	45.090412	1.437709
0.000131	1.302713	10.037597	
0.56332	13.539068	45.090412	1.437709
0.000131	2.082147	14.819394	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.655117	-14.148263	-1.858652
-0.001979	-1.033551	-43.575529	
0.14083	-9.655117	-14.148263	-1.858652
-0.001979	-0.253991	-46.254794	
0.28166	-9.655117	-14.148263	-1.858652
-0.001979	-0.407841	-54.823327	
0.42249	-9.655117	-14.148263	-1.858652
-0.001979	-1.010407	-67.701970	
0.56332	-9.655117	-14.148263	-1.858652
-0.001979	-1.613141	-81.642729	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.441860	50.793246	1.618003
7.75E-06	0.895331	49.780758	
0.14083	9.441860	50.793246	1.618003
7.75E-06	0.216956	56.605764	
0.28166	9.441860	50.793246	1.618003
7.75E-06	0.619325	70.006055	
0.42249	9.441860	50.793246	1.618003
7.75E-06	1.557845	87.892710	
0.56332	9.441860	50.793246	1.618003
7.75E-06	2.494411	106.958633	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.665020	-50.049232	-2.232972
-0.001600	-1.248224	-37.234780	
0.14083	-13.665020	-50.049232	-2.232972
-0.001600	-0.310488	-45.110386	
0.28166	-13.665020	-50.049232	-2.232972
-0.001600	-0.460545	-57.557217	
0.42249	-13.665020	-50.049232	-2.232972
-0.001600	-1.139167	-73.276634	
0.56332	-13.665020	-50.049232	-2.232972
-0.001600	-1.817759	-89.362639	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.805585	103.681538	1.473183
0.003139	0.824142	97.013001	
0.14083	9.805585	103.681538	1.473183
0.003139	0.207984	80.928030	
0.28166	9.805585	103.681538	1.473183
0.003139	0.595281	82.042330	
0.42249	9.805585	103.681538	1.473183
0.003139	1.496501	97.715554	
0.56332	9.805585	103.681538	1.473183
0.003139	2.401938	119.007213	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2301

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.876400	-56.763174	-2.163612
-0.003654	-1.225734	-34.957716	
0.14083	-24.876400	-56.763174	-2.163612
-0.003654	-0.317769	-38.092438	
0.28166	-24.876400	-56.763174	-2.163612
-0.003654	-0.422233	-59.516149	
0.42249	-24.876400	-56.763174	-2.163612
-0.003654	-1.038628	-89.426627	
0.56332	-24.876400	-56.763174	-2.163612
-0.003654	-1.655697	-127.839785	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.558871	129.089258	1.019178
0.007548	0.562364	104.578285	
0.14083	14.558871	129.089258	1.019178
0.007548	0.137451	97.824980	
0.28166	14.558871	129.089258	1.019178
0.007548	0.433332	102.820577	
0.42249	14.558871	129.089258	1.019178
0.007548	1.087644	129.412051	
0.56332	14.558871	129.089258	1.019178
0.007548	1.742886	162.854456	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.110544	-81.952083	-1.563284
-0.005882	-0.878882	-41.535014	
0.14083	-20.110544	-81.952083	-1.563284
-0.005882	-0.231612	-50.306311	
0.28166	-20.110544	-81.952083	-1.563284
-0.005882	-0.292863	-72.793086	
0.42249	-20.110544	-81.952083	-1.563284
-0.005882	-0.720142	-100.055594	
0.56332	-20.110544	-81.952083	-1.563284
-0.005882	-1.147449	-145.256205	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.126679	120.312571	1.618003
0.008114	0.895331	107.445867	
0.14083	20.126679	120.312571	1.618003
0.008114	0.216956	95.130668	
0.28166	20.126679	120.312571	1.618003
0.008114	0.619325	102.786573	
0.42249	20.126679	120.312571	1.618003
0.008114	1.557845	128.198957	
0.56332	20.126679	120.312571	1.618003
0.008114	2.494411	161.494363	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.876400	-85.019409	-2.232972
-0.005867	-1.248224	-43.575529	
0.14083	-24.876400	-85.019409	-2.232972
-0.005867	-0.317769	-50.772017	
0.28166	-24.876400	-85.019409	-2.232972
-0.005867	-0.460545	-74.579455	
0.42249	-24.876400	-85.019409	-2.232972
-0.005867	-1.139167	-105.386554	
0.56332	-24.876400	-85.019409	-2.232972
-0.005867	-1.817759	-148.277527	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.126679	129.089258	1.618003
0.008114	0.895331	107.445867	
0.14083	20.126679	129.089258	1.618003
0.008114	0.216956	97.824980	
0.28166	20.126679	129.089258	1.618003
0.008114	0.619325	102.820577	
0.42249	20.126679	129.089258	1.618003
0.008114	1.557845	129.412051	
0.56332	20.126679	129.089258	1.618003
0.008114	2.494411	162.854456	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2302

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.876400	-85.019409	-2.232972
-0.005882	-1.248224	-43.575529	
0.14083	-24.876400	-85.019409	-2.232972
-0.005882	-0.317769	-50.772017	
0.28166	-24.876400	-85.019409	-2.232972
-0.005882	-0.460545	-74.579455	
0.42249	-24.876400	-85.019409	-2.232972
-0.005882	-1.139167	-105.386554	
0.56332	-24.876400	-85.019409	-2.232972
-0.005882	-1.817759	-148.277527	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.126679	129.089258	1.618003
0.008114	0.895331	107.445867	
0.14083	20.126679	129.089258	1.618003
0.008114	0.216956	97.824980	

```
 0.28166    20.126679   129.089258     1.618003
 0.008114    0.619325   102.820577
 0.42249    20.126679   129.089258     1.618003
 0.008114    1.557845   129.412051
 0.56332    20.126679   129.089258     1.618003
 0.008114    2.494411   162.854456

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -24.876400  -85.019409  -2.232972
-0.005882   -1.248224  -43.575529
 0.14083  -24.876400  -85.019409  -2.232972
-0.005882   -0.317769  -50.772017
 0.28166  -24.876400  -85.019409  -2.232972
-0.005882   -0.460545  -74.579455
 0.42249  -24.876400  -85.019409  -2.232972
-0.005882   -1.139167  -105.386554
 0.56332  -24.876400  -85.019409  -2.232972
-0.005882   -1.817759  -148.277527

ELEM      206 ================== LENGTH
=     2.977713

COMB DB-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    1.999762   59.429098     0.381083
 0.001455    0.421198   78.235855
 0.57743    1.999762   59.429098     0.381083
 0.001455    0.101741   53.350526
 0.71829    1.999762   59.429098     0.381083
 0.001455    0.101544   28.530668
 0.85914    1.999762   59.429098     0.381083
 0.001455    0.079924    4.197442
 1.00000    1.999762   59.429098     0.381083
 0.001455    0.298078    2.651593

COMB DB-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -7.318875  -17.678136     -0.520122
-1.62E-05   -0.574542   -35.774028
 0.57743  -7.318875  -17.678136     -0.520122
-1.62E-05   -0.356397   -28.459136
 0.71829  -7.318875  -17.678136     -0.520122
-1.62E-05   -0.138248   -21.454915
 0.85914  -7.318875  -17.678136     -0.520122
-1.62E-05   -0.058321   -14.863698
 1.00000  -7.318875  -17.678136     -0.520122
-1.62E-05   -0.218155   -22.912314

COMB DB-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    5.830573   88.205377     0.541069
 0.007919    0.572326   162.015023
 0.57743    5.830573   88.205377     0.541069
 0.007919    0.355060   127.039602
 0.71829    5.830573   88.205377     0.541069
 0.007919    0.137809   105.456779
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2303

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.85914    5.830573   88.205377     0.541069
 0.007919    0.136980   102.534553
 1.00000    5.830573   88.205377     0.541069
 0.007919    0.451440   115.197923

COMB DB-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -12.020486  -103.013360     -0.752506
-0.006287   -0.811072   -71.968672
 0.57743  -12.020486  -103.013360     -0.752506
-0.006287   -0.503488   -40.593822
 0.71829  -12.020486  -103.013360     -0.752506
-0.006287   -0.200876   -28.250166
 0.85914  -12.020486  -103.013360     -0.752506
-0.006287   -0.112716   -17.776314
 1.00000  -12.020486  -103.013360     -0.752506
-0.006287   -0.338698   -13.011065

COMB DB-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    8.680507   84.257198     0.712016
 0.005708    0.771920   157.196618
 0.57743    8.680507   84.257198     0.712016
 0.005708    0.479866   125.596863
 0.71829    8.680507   84.257198     0.712016
 0.005708    0.187818   103.073175
 0.85914    8.680507   84.257198     0.712016
 0.005708    0.165697    96.184132
 1.00000    8.680507   84.257198     0.712016
 0.005708    0.602317   109.138530

COMB DB-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -10.590665  -125.002593     -1.043948
-0.004842   -1.149341  -114.444884
 0.57743  -10.590665  -125.002593     -1.043948
-0.004842   -0.717060   -70.161484
 0.71829  -10.590665  -125.002593     -1.043948
-0.004842   -0.288291   -37.552545
 0.85914  -10.590665  -125.002593     -1.043948
-0.004842   -0.126869   -18.313076
 1.00000  -10.590665  -125.002593     -1.043948
-0.004842   -0.424855   -13.576218

COMB DB-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    10.139326   77.138623     0.894961
 0.004741    0.978641   145.465465
 0.57743    10.139326   77.138623     0.894961
 0.004741    0.608733   116.239733
 0.71829    10.139326   77.138623     0.894961
 0.004741    0.238832    95.139702
 0.85914    10.139326   77.138623     0.894961
 0.004741    0.196703    85.934703
 1.00000    10.139326   77.138623     0.894961
 0.004741    0.741102    93.976748

COMB DB-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -9.478251  -115.739964     -1.300519
-0.004496   -1.440989  -133.084290
 0.57743  -9.478251  -115.739964     -1.300519
-0.004496   -0.900130   -91.618560
 0.71829  -9.478251  -115.739964     -1.300519
-0.004496   -0.362219   -60.262301
 0.85914  -9.478251  -115.739964     -1.300519
-0.004496   -0.149819   -40.524059
 1.00000  -9.478251  -115.739964     -1.300519
-0.004496   -0.524689   -32.531181

COMB DB-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    4.630896    9.683006     0.176610
 0.005379    0.175008   46.202414
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2304

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.57743    4.630896    9.683006     0.176610
 0.005379    0.109036   44.835102
 0.71829    4.630896    9.683006     0.176610
 0.005379    0.043089   55.247577
 0.85914    4.630896    9.683006     0.176610
 0.005379    0.060611   83.105362
 1.00000    4.630896    9.683006     0.176610
 0.005379    0.186032   121.484510

COMB DB-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -3.072713  -100.831559     -0.301921
-0.005500   -0.320659   -52.624903
 0.57743  -3.072713  -100.831559     -0.301921
-0.005500   -0.200776   -20.185025
 0.71829  -3.072713  -100.831559     -0.301921
-0.005500   -0.085104   -4.241403
 0.85914  -3.072713  -100.831559     -0.301921
-0.005500   -0.050747   -2.847380
 1.00000  -3.072713  -100.831559     -0.301921
-0.005500   -0.124006   -2.678467

COMB DB-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    9.161981   16.113622     0.480212
 0.004905    0.515720   54.953684
 0.57743    9.161981   16.113622     0.480212
 0.004905    0.321836   52.388914
 0.71829    9.161981   16.113622     0.480212
 0.004905    0.127962   60.987058
 0.85914    9.161981   16.113622     0.480212
 0.004905    0.121488   85.895915
 1.00000    9.161981   16.113622     0.480212
 0.004905    0.443695   123.500016

COMB DB-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -2.748961  -129.556449     -0.771786
-0.005738   -0.851406  -106.558480
 0.57743  -2.748961  -129.556449     -0.771786
-0.005738   -0.534051   -61.645428
 0.71829  -2.748961  -129.556449     -0.771786
-0.005738   -0.220744   -30.556765
 0.85914  -2.748961  -129.556449     -0.771786
-0.005738   -0.091822   -14.903033
 1.00000  -2.748961  -129.556449     -0.771786
-0.005738   -0.292512   -14.373474

COMB DB-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    9.069180   80.328042     0.697727
 0.004369    0.759042   176.426842
 0.57743    9.069180   80.328042     0.697727
 0.004369    0.471725   146.306271
 0.71829    9.069180   80.328042     0.697727
 0.004369    0.184400   124.279160
 0.85914    9.069180   80.328042     0.697727
 0.004369    0.153633   114.605839
 1.00000    9.069180   80.328042     0.697727
 0.004369    0.575214   116.835880

COMB DB-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -9.224368  -118.209569     -1.007884
-0.004246   -1.115976  -116.705791
 0.57743  -9.224368  -118.209569     -1.007884
-0.004246   -0.697741   -73.984904
 0.71829  -9.224368  -118.209569     -1.007884
-0.004246   -0.282387   -41.246051
 0.85914  -9.224368  -118.209569     -1.007884
-0.004246   -0.121250   -23.043138
 1.00000  -9.224368  -118.209569     -1.007884
-0.004246   -0.413375   -18.448615
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2305

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    9.822412   74.489281     0.907777
 0.003656    0.994420   164.617783
 0.57743    9.822412   74.489281     0.907777
 0.003656    0.618139   136.369545
 0.71829    9.822412   74.489281     0.907777
 0.003656    0.241866   114.903773
 0.85914    9.822412   74.489281     0.907777
 0.003656    0.190196   103.736308
 1.00000    9.822412   74.489281     0.907777
 0.003656    0.731398   102.393348

COMB DB-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -8.477009  -106.623482     -1.292567
-0.004026   -1.437381  -132.830525
 0.57743  -8.477009  -106.623482     -1.292567
-0.004026   -0.899044   -94.030706
 0.71829  -8.477009  -106.623482     -1.292567
-0.004026   -0.363100   -63.539019
 0.85914  -8.477009  -106.623482     -1.292567
-0.004026   -0.149770   -45.017073
 1.00000  -8.477009  -106.623482     -1.292567
-0.004026   -0.530094   -38.241802

COMB DB-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    2.984136   12.065012     0.514682
 7.05E-06    0.570127   29.711485
 0.57743    2.984136   12.065012     0.514682
 7.05E-06    0.354266   24.685712
 0.71829    2.984136   12.065012     0.514682
 7.05E-06    0.138404   19.681103
 0.85914    2.984136   12.065012     0.514682
 7.05E-06    0.096288   14.773989
 1.00000    2.984136   12.065012     0.514682
 7.05E-06    0.390813    9.976297

COMB DB-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -1.334738  -10.881693     -0.702118
-0.000730   -0.787145   -53.121446
 0.57743  -1.334738  -10.881693     -0.702118
-0.000730   -0.492665   -48.711467
 0.71829  -1.334738  -10.881693     -0.702118
-0.000730   -0.198195   -44.419802
 0.85914  -1.334738  -10.881693     -0.702118
-0.000730   -0.077479   -40.179393
 1.00000  -1.334738  -10.881693     -0.702118
-0.000730   -0.293364   -35.987507

COMB DB-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    7.076615   19.482751     0.830905
 0.000203    0.921779   43.248642
 0.57743    7.076615   19.482751     0.830905
 0.000203    0.573596   35.331404
 0.71829    7.076615   19.482751     0.830905
 0.000203    0.225373   28.348886
 0.85914    7.076615   19.482751     0.830905
 0.000203    0.159709   22.275602
 1.00000    7.076615   19.482751     0.830905
 0.000203    0.649116   16.789990

COMB DB-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -2.058425  -32.790095     -1.167397
-0.001489   -1.309471   -99.988483
 0.57743  -2.058425  -32.790095     -1.167397
-0.001489   -0.820107   -87.278479
 0.71829  -2.058425  -32.790095     -1.167397
-0.001489   -0.330973   -75.826111
 0.85914  -2.058425  -32.790095     -1.167397
-0.001489   -0.123804   -64.868687
 1.00000  -2.058425  -32.790095     -1.167397
-0.001489   -0.472357   -54.399284
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2306

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    9.470507   21.021603     0.913783
 0.000323    1.013914   58.781656
 0.57743    9.470507   21.021603     0.913783
 0.000323    0.631151   52.808451
 0.71829    9.470507   21.021603     0.913783
 0.000323    0.248322   48.394419
 0.85914    9.470507   21.021603     0.913783
 0.000323    0.181910   47.607499
 1.00000    9.470507   21.021603     0.913783
 0.000323    0.744341   58.903915

COMB DB-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -2.333279  -84.908157     -1.342269
-0.001899   -1.507891  -137.870814
 0.57743  -2.333279  -84.908157     -1.342269
-0.001899   -0.945384  -103.478675
 0.71829  -2.333279  -84.908157     -1.342269
-0.001899   -0.383354   -70.734214
 0.85914  -2.333279  -84.908157     -1.342269
-0.001899   -0.136082   -53.009143
 1.00000  -2.333279  -84.908157     -1.342269
-0.001899   -0.519356   -48.849974

COMB DB-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    9.970318   63.319676     0.937314
 0.003839    1.024964   153.877075
 0.57743    9.970318   63.319676     0.937314
 0.003839    0.637103   130.490768
 0.71829    9.970318   63.319676     0.937314
 0.003839    0.249228   115.066573
 0.85914    9.970318   63.319676     0.937314
 0.003839    0.195138   111.249823
 1.00000    9.970318   63.319676     0.937314
 0.003839    0.751360   117.102352

COMB DB-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -7.259150  -109.542975     -1.328327
-0.004683   -1.477429  -136.161297
 0.57743  -7.259150  -109.542975     -1.328327
-0.004683   -0.924736   -97.052923
 0.71829  -7.259150  -109.542975     -1.328327
-0.004683   -0.374883   -67.709522
 0.85914  -7.259150  -109.542975     -1.328327
-0.004683   -0.156713   -50.166424
 1.00000  -7.259150  -109.542975     -1.328327
-0.004683   -0.549385   -44.171353

COMB DL-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    3.414804   55.366841     0.417086
 0.001460    0.463335   71.395081
 0.57743    3.414804   55.366841     0.417086
 0.001460    0.288239   48.567082
 0.71829    3.414804   55.366841     0.417086
 0.001460    0.113079   26.090486
 0.85914    3.414804   55.366841     0.417086
 0.001460    0.104865    5.136162
 1.00000    3.414804   55.366841     0.417086
 0.001460    0.404454    3.052999

COMB DL-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -6.286303  -22.021208     -0.712780
-1.19E-05   -0.790920   -48.679244
 0.57743  -6.286303  -22.021208     -0.712780
-1.19E-05   -0.394869   -39.841701
 0.71829  -6.286303  -22.021208     -0.712780
-1.19E-05   -0.192630   -31.379821
 0.85914  -6.286303  -22.021208     -0.712780
-1.19E-05   -0.060488   -24.232560
 1.00000  -6.286303  -22.021208     -0.712780
-1.19E-05   -0.236524   -33.887297
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2307

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    7.086456   81.508074     0.647515
 0.007866    0.688284   153.218401
 0.57743    7.086456   81.508074     0.647515
 0.007866    0.423303   122.774303
 0.71829    7.086456   81.508074     0.647515
 0.007866    0.169060   105.926636
 0.85914    7.086456   81.508074     0.647515
 0.007866    0.178652   106.556143
 1.00000    7.086456   81.508074     0.647515
 0.007866    0.616970   121.028610

COMB DL-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -10.884347  -104.678239     -1.045741
-0.006270   -1.136770   -90.614579
 0.57743  -10.884347  -104.678239     -1.045741
-0.006270   -0.706655   -51.703605
 0.71829  -10.884347  -104.678239     -1.045741
-0.006270   -0.281137   -37.774627
 0.85914  -10.884347  -104.678239     -1.045741
-0.006270   -0.126878   -27.564900
 1.00000  -10.884347  -104.678239     -1.045741
-0.006270   -0.399026   -26.064314

COMB DL-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    9.269090   78.704618     0.968677
 0.005861    1.057188   150.259325
 0.57743    9.269090   78.704618     0.968677
 0.005861    0.655196   121.347650
 0.71829    9.269090   78.704618     0.968677
 0.005861    0.261130   102.617982
 0.85914    9.269090   78.704618     0.968677
 0.005861    0.232398   101.727807
 1.00000    9.269090   78.704618     0.968677
 0.005861    0.871998   119.924710

COMB DL-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -9.741567  -121.788784     -1.523510
-0.004925   -1.682552  -120.768394
 0.57743  -9.741567  -121.788784     -1.523510
-0.004925   -1.049444   -73.790408
 0.71829  -9.741567  -121.788784     -1.523510
-0.004925   -0.420081   -44.709011
 0.85914  -9.741567  -121.788784     -1.523510
-0.004925   -0.162788   -25.517280
 1.00000  -9.741567  -121.788784     -1.523510
-0.004925   -0.569121   -25.274193

COMB DL-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    10.701069   73.862066     1.259187
 0.004870    1.384329   142.494530
 0.57743    10.701069   73.862066     1.259187
 0.004870    0.860093   114.978630
 0.71829    10.701069   73.862066     1.259187
 0.004870    0.341794   95.674193
 0.85914    10.701069   73.862066     1.259187
 0.004870    0.278584   91.942440
 1.00000    10.701069   73.862066     1.259187
 0.004870    1.069116   103.782324

COMB DL-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -8.794244  -113.698603     -1.882902
-0.004567   -2.088018  -140.550507
 0.57743  -8.794244  -113.698603     -1.882902
-0.004567   -1.303071   -96.406937
 0.71829  -8.794244  -113.698603     -1.882902
-0.004567   -0.521017   -67.356491
 0.85914  -8.794244  -113.698603     -1.882902
-0.004567   -0.200869   -47.195050
 1.00000  -8.794244  -113.698603     -1.882902
-0.004567   -0.729182   -42.741255
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2308

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    3.919583   10.235680     0.287305
 0.004508    0.298827   48.901237
 0.57743    3.919583   10.235680     0.287305
 0.004508    0.183047   48.521482
 0.71829    3.919583   10.235680     0.287305
 0.004508    0.074851   59.186906
 0.85914    3.919583   10.235680     0.287305
 0.004508    0.075254   86.415253
 1.00000    3.919583   10.235680     0.287305
 0.004508    0.252358   118.993188

COMB DL-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -3.299127  -88.012564     -0.423758
-0.004608   -0.458048   -51.542315
 0.57743  -3.299127  -88.012564     -0.423758
-0.004608   -0.286212   -18.964541
 0.71829  -3.299127  -88.012564     -0.423758
-0.004608   -0.119009   -5.009814
 0.85914  -3.299127  -88.012564     -0.423758
-0.004608   -0.063625   -3.440395
 1.00000  -3.299127  -88.012564     -0.423758
-0.004608   -0.183583   -3.060567

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    8.245396   17.988813     0.776954
 0.004189    0.847410   60.759700
 0.57743    8.245396   17.988813     0.776954
 0.004189    0.525994   57.369046
 0.71829    8.245396   17.988813     0.776954
 0.004189    0.211756   63.776219
 0.85914    8.245396   17.988813     0.776954
 0.004189    0.173002   89.024504
 1.00000    8.245396   17.988813     0.776954
 0.004189    0.654833   124.216016

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -2.980539  -114.067553     -1.149388
-0.004949   -1.272100   -98.458720
 0.57743  -2.980539  -114.067553     -1.149388
-0.004949   -0.795530   -54.557704
 0.71829  -2.980539  -114.067553     -1.149388
-0.004949   -0.322988   -27.924094
 0.85914  -2.980539  -114.067553     -1.149388
-0.004949   -0.132103   -14.605140
 1.00000  -2.980539  -114.067553     -1.149388
-0.004949   -0.456758   -13.869727

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    8.441411   77.191944     0.994998
 0.003612    1.044410   175.655456
 0.57743    8.441411   77.191944     0.994998
 0.003612    0.680361   146.729208
 0.71829    8.441411   77.191944     0.994998
 0.003612    0.270409   124.593910
 0.85914    8.441411   77.191944     0.994998
 0.003612    0.217445   117.071383
 1.00000    8.441411   77.191944     0.994998
 0.003612    0.845415   118.721942

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43658  -8.872316  -106.176714     -1.495607
-0.003425   -1.662222   -113.804101
 0.57743  -8.872316  -106.176714     -1.495607
-0.003425   -1.038404   -72.341954
 0.71829  -8.872316  -106.176714     -1.495607
-0.003425   -0.417027   -42.473199
 0.85914  -8.872316  -106.176714     -1.495607
-0.003425   -0.158634   -25.228100
 1.00000  -8.872316  -106.176714     -1.495607
-0.003425   -0.576085   -19.370618
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2309

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43658    9.204885   73.757872     1.336249
 0.003027    1.475417   168.551662
 0.57743    9.204885   73.757872     1.336249
 0.003027    0.917534   140.585069
```

0.71829	9.204885	73.757872	1.336249
0.003027	0.363029	118.302988	
0.85914	9.204885	73.757872	1.336249
0.003027	0.271386	108.209966	
1.00000	9.204885	73.757872	1.336249
0.003027	1.067955	105.851585	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-8.372613	-97.941703	-1.896931
-0.003351	-2.112248	-135.146822	
0.57743	-8.372613	-97.941703	-1.896931
-0.003351	-1.319308	-96.785956	
0.71829	-8.372613	-97.941703	-1.896931
-0.003351	-0.528406	-68.141852	
0.85914	-8.372613	-97.941703	-1.896931
-0.003351	-0.206627	-49.855122	
1.00000	-8.372613	-97.941703	-1.896931
-0.003351	-0.767384	-41.410947	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	2.837206	15.235390	0.809202
4.12E-06	0.898271	37.942606	
0.57743	2.837206	15.235390	0.809202
4.12E-06	0.558870	31.740328	
0.71829	2.837206	15.235390	0.809202
4.12E-06	0.219400	25.556707	
0.85914	2.837206	15.235390	0.809202
4.12E-06	0.138979	19.421526	
1.00000	2.837206	15.235390	0.809202
4.12E-06	0.560680	13.389367	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-2.124480	-12.977209	-1.004019
-0.000742	-1.122613	-61.234987	
0.57743	-2.124480	-12.977209	-1.004019
-0.000742	-0.701144	-56.067109	
0.71829	-2.124480	-12.977209	-1.004019
-0.000742	-0.279345	-50.975684	
0.85914	-2.124480	-12.977209	-1.004019
-0.000742	-0.119742	-45.942970	
1.00000	-2.124480	-12.977209	-1.004019
-0.000742	-0.459387	-40.999585	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	7.189761	24.170380	1.296266
0.000130	1.441253	54.748943	
0.57743	7.189761	24.170380	1.296266
0.000130	0.897713	45.057479	
0.71829	7.189761	24.170380	1.296266
0.000130	0.354240	35.908094	
0.85914	7.189761	24.170380	1.296266
0.000130	0.235433	27.374095	
1.00000	7.189761	24.170380	1.296266
0.000130	0.949528	19.723464	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-2.744474	-34.505511	-1.700385
-0.001423	-1.961305	-108.854087	
0.57743	-2.744474	-34.505511	-1.700385
-0.001423	-1.187873	-95.080783	
0.71829	-2.744474	-34.505511	-1.700385
-0.001423	-0.473852	-82.241078	
0.85914	-2.744474	-34.505511	-1.700385
-0.001423	-0.189714	-70.547663	
1.00000	-2.744474	-34.505511	-1.700385
-0.001423	-0.733570	-59.829776	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2310

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	8.546904	25.182937	1.450893
5.56E-06	1.615677	69.045841	
0.57743	8.546904	25.182937	1.450893
5.56E-06	1.006914	60.720416	
0.71829	8.546904	25.182937	1.450893
5.56E-06	0.398840	53.928564	
0.85914	8.546904	25.182937	1.450893
5.56E-06	0.266397	55.263395	
1.00000	8.546904	25.182937	1.450893
5.56E-06	1.091021	65.522485	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-3.201638	-77.021088	-1.962109
-0.001504	-2.198236	-135.193626	
0.57743	-3.201638	-77.021088	-1.962109
-0.001504	-1.374841	-104.247741	
0.71829	-3.201638	-77.021088	-1.962109
-0.001504	-0.549901	-74.712057	
0.85914	-3.201638	-77.021088	-1.962109
-0.001504	-0.210718	-58.972602	
1.00000	-3.201638	-77.021088	-1.962109
-0.001504	-0.819430	-53.587859	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	9.024922	65.018286	1.426949
0.002891	1.574862	164.144392	
0.57743	9.024922	65.018286	1.426949
0.002891	0.978882	139.947329	
0.71829	9.024922	65.018286	1.426949
0.002891	0.387578	122.005113	
0.85914	9.024922	65.018286	1.426949
0.002891	0.278084	116.937332	
1.00000	9.024922	65.018286	1.426949
0.002891	1.097365	119.339817	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-7.892115	-97.992675	-1.950643
-0.003698	-2.172955	-138.614962	
0.57743	-7.892115	-97.992675	-1.950643
-0.003698	-1.357895	-100.414164	
0.71829	-7.892115	-97.992675	-1.950643
-0.003698	-0.544544	-72.839003	
0.85914	-7.892115	-97.992675	-1.950643
-0.003698	-0.221705	-56.430930	
1.00000	-7.892115	-97.992675	-1.950643
-0.003698	-0.820428	-48.854966	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	10.139326	88.205377	0.937314
0.007919	1.024964	176.426842	
0.57743	10.139326	88.205377	0.937314
0.007919	0.637103	146.306271	
0.71829	10.139326	88.205377	0.937314
0.007919	0.249228	124.279180	
0.85914	10.139326	88.205377	0.937314
0.007919	0.196703	114.605839	
1.00000	10.139326	88.205377	0.937314
0.007919	0.751360	123.500016	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-12.020486	-129.556449	-1.342269
-0.006287	-1.507891	-137.670814	
0.57743	-12.020486	-129.556449	-1.342269
-0.006287	-0.945384	-103.478675	
0.71829	-12.020486	-129.556449	-1.342269
-0.006287	-0.383354	-75.826111	
0.85914	-12.020486	-129.556449	-1.342269
-0.006287	-0.156713	-64.868687	
1.00000	-12.020486	-129.556449	-1.342269
-0.006287	-0.549386	-54.399284	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2311

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	10.701069	81.508074	1.450893
0.007866	1.615677	175.655456	
0.57743	10.701069	81.508074	1.450893
0.007866	1.006914	146.729208	
0.71829	10.701069	81.508074	1.450893
0.007866	0.398840	124.593910	
0.85914	10.701069	81.508074	1.450893
0.007866	0.278584	117.071383	
1.00000	10.701069	81.508074	1.450893
0.007866	1.097365	124.216016	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-10.884347	-121.788784	-1.962109
-0.006270	-2.198236	-140.550507	
0.57743	-10.884347	-121.788784	-1.962109
-0.006270	-1.374841	-104.247741	
0.71829	-10.884347	-121.788784	-1.962109
-0.006270	-0.549901	-82.241078	
0.85914	-10.884347	-121.788784	-1.962109
-0.006270	-0.221705	-70.547663	
1.00000	-10.884347	-121.788784	-1.962109
-0.006270	-0.820428	-59.829776	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	10.701069	88.205377	1.450893
0.007919	1.615677	176.426842	
0.57743	10.701069	88.205377	1.450893
0.007919	1.006914	146.729208	
0.71829	10.701069	88.205377	1.450893
0.007919	0.398840	124.593910	
0.85914	10.701069	88.205377	1.450893
0.007919	0.278584	117.071383	
1.00000	10.701069	88.205377	1.450893
0.007919	1.097365	124.216016	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-12.020486	-129.556449	-1.962109
-0.006287	-2.198236	-140.550507	
0.57743	-12.020486	-129.556449	-1.962109
-0.006287	-1.374841	-104.247741	
0.71829	-12.020486	-129.556449	-1.962109
-0.006287	-0.549901	-82.241078	
0.85914	-12.020486	-129.556449	-1.962109
-0.006287	-0.221705	-70.547663	
1.00000	-12.020486	-129.556449	-1.962109
-0.006287	-0.820428	-59.829776	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	10.701069	88.205377	1.450893
0.007919	1.615677	176.426842	
0.57743	10.701069	88.205377	1.450893
0.007919	1.006914	146.729208	
0.71829	10.701069	88.205377	1.450893
0.007919	0.398840	124.593910	
0.85914	10.701069	88.205377	1.450893
0.007919	0.278584	117.071383	
1.00000	10.701069	88.205377	1.450893
0.007919	1.097365	124.216016	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-12.020486	-129.556449	-1.962109
-0.006287	-2.198236	-140.550507	
0.57743	-12.020486	-129.556449	-1.962109
-0.006287	-1.374841	-104.247741	
0.71829	-12.020486	-129.556449	-1.962109
-0.006287	-0.549901	-82.241078	
0.85914	-12.020486	-129.556449	-1.962109
-0.006287	-0.221705	-70.547663	
1.00000	-12.020486	-129.556449	-1.962109
-0.006287	-0.820428	-59.829776	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2312

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 207 ========== LENGTH = 2.976758

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.992156	59.322614	0.355501
0.001381	0.195547	2.648594	
0.14082	1.992156	59.322614	0.355501
0.001381	0.046771	3.042475	
0.28164	1.992156	59.322614	0.355501
0.001381	0.102991	9.582886	
0.42246	1.992156	59.322614	0.355501
0.001381	0.325260	16.781958	
0.56328	1.992156	59.322614	0.355501
0.001381	0.517532	24.131508	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.302674	-17.739800	-0.458688
-7.35E-06	-0.251578	-22.931776	
0.14082	-7.302674	-17.739800	-0.458688
-7.35E-06	0.059299	-47.285974	
0.28164	-7.302674	-17.739800	-0.458688
-7.35E-06	-0.102537	-72.083250	
0.42246	-7.302674	-17.739800	-0.458688
-7.35E-06	-0.251541	-96.905535	
0.56328	-7.302674	-17.739800	-0.458688
-7.35E-06	-0.400563	-121.754106	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.964903	153.721977	0.465807
0.008048	0.276454	115.560366	
0.14082	2.964903	153.721977	0.465807
0.008048	0.086039	91.850152	
0.28164	2.964903	153.721977	0.465807
0.008048	0.199074	74.077715	
0.42246	2.964903	153.721977	0.465807
0.008048	0.479417	76.256664	
0.56328	2.964903	153.721977	0.465807
0.008048	0.772190	91.046949	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.408203	-41.111269	-0.710597
-0.006085	-0.419739	-13.029127	
0.14082	-15.408203	-41.111269	-0.710597
-0.006085	-0.122962	-44.840893	
0.28164	-15.408203	-41.111269	-0.710597
-0.006085	-0.134968	-77.420130	
0.42246	-15.408203	-41.111269	-0.710597
-0.006085	-0.329992	-114.310630	
0.56328	-15.408203	-41.111269	-0.710597
-0.006085	-0.525262	-172.267217	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.790314	128.662633	0.647346
0.005804	0.372388	109.368197	
0.14082	6.790314	128.662633	0.647346
0.005804	0.104307	113.927419	
0.28164	6.790314	128.662633	0.647346
0.005804	0.291707	124.421549	
0.42246	6.790314	128.662633	0.647346
0.005804	0.719109	148.811456	
0.56328	6.790314	128.662633	0.647346
0.005804	1.154967	181.833283	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.890985	-83.144777	-1.048155
-0.004268	-0.602819	-13.589513	
0.14082	-12.890985	-83.144777	-1.048155
-0.004268	-0.164172	-45.404536	
0.28164	-12.890985	-83.144777	-1.048155
-0.004268	-0.184479	-77.766075	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2313

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42246	-12.890985	-83.144777	-1.048155
-0.004268	-0.455856	-113.016208	
0.56328	-12.890985	-83.144777	-1.048155
-0.004268	-0.727241	-162.563953	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.585071	113.936188	0.835999
0.004822	0.475852	94.172315	
0.14082	8.585071	113.936188	0.835999
0.004822	0.128141	95.709733	
0.28164	8.585071	113.936188	0.835999
0.004822	0.368254	105.784712	
0.42246	8.585071	113.936188	0.835999
0.004822	0.913277	128.142160	
0.56328	8.585071	113.936188	0.835999
0.004822	1.465312	157.844600	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.386652	-81.077007	-1.323882
-0.004170	-0.754747	-32.548934	
0.14082	-11.386652	-81.077007	-1.323882
-0.004170	-0.200394	-55.182541	
0.28164	-11.386652	-81.077007	-1.323882
-0.004170	-0.236743	-78.384526	
0.42246	-11.386652	-81.077007	-1.323882
-0.004170	-0.587218	-105.179375	
0.56328	-11.386652	-81.077007	-1.323882
-0.004170	-0.937662	-145.114518	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.274733	64.729868	0.140803
0.005313	0.095827	121.781060	
0.14082	2.274733	64.729868	0.140803
0.005313	0.040808	113.744354	
0.28164	2.274733	64.729868	0.140803
0.005313	0.089727	105.827381	
0.42246	2.274733	64.729868	0.140803
0.005313	0.232022	113.963939	
0.56328	2.274733	64.729868	0.140803
0.005313	0.355743	132.562875	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.932857	-49.110273	-0.339996
-0.005088	-0.214694	-2.670329	
0.14082	-5.932857	-49.110273	-0.339996
-0.005088	-0.073095	-2.759599	
0.28164	-5.932857	-49.110273	-0.339996
-0.005088	-0.039533	-3.328149	
0.42246	-5.932857	-49.110273	-0.339996
-0.005088	-0.098564	-7.448887	
0.56328	-5.932857	-49.110273	-0.339996
-0.005088	-0.157599	-29.151895	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.010395	67.276666	0.457013
0.004946	0.272869	123.768717	
0.14082	7.010395	67.276666	0.457013
0.004946	0.085036	126.611453	
0.28164	7.010395	67.276666	0.457013
0.004946	0.230520	133.274499	
0.42246	7.010395	67.276666	0.457013
0.004946	0.573340	155.431177	
0.56328	7.010395	67.276666	0.457013
0.004946	0.925839	187.476840	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.409331	-81.632883	-0.850504
-0.005171	-0.500586	-14.366911	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2314

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14082	-5.409331	-81.632883	-0.850504
-0.005171	-0.144878	-13.931045	
0.28164	-5.409331	-81.632883	-0.850504
-0.005171	-0.126426	-14.059214	
0.42246	-5.409331	-81.632883	-0.850504
-0.005171	-0.318048	-19.123929	
0.56328	-5.409331	-81.632883	-0.850504
-0.005171	-0.509623	-42.215312	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.559571	116.125847	0.622579
0.004629	0.355522	117.002008	
0.14082	7.559571	116.125847	0.622579
0.004629	0.097317	109.441850	
0.28164	7.559571	116.125847	0.622579
0.004629	0.290588	122.793457	
0.42246	7.559571	116.125847	0.622579
0.004629	0.721716	148.857057	
0.56328	7.559571	116.125847	0.622579
0.004629	1.159727	182.310446	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.083131	-84.501781	-1.051648
-0.003621	-0.603897	-18.433393	
0.14082	-11.083131	-84.501781	-1.051648
-0.003621	-0.163674	-21.743927	
0.28164	-11.083131	-84.501781	-1.051648
-0.003621	-0.177911	-49.847168	
0.42246	-11.083131	-84.501781	-1.051648
-0.003621	-0.438922	-81.782070	
0.56328	-11.083131	-84.501781	-1.051648
-0.003621	-0.699907	-126.820285	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.571875	104.435716	0.828433
0.003872	0.468285	102.538181	
0.14082	8.571875	104.435716	0.828433
0.003872	0.123298	93.082233	
0.28164	8.571875	104.435716	0.828433
0.003872	0.373707	102.684583	
0.42246	8.571875	104.435716	0.828433
0.003872	0.931137	124.140150	
0.56328	8.571875	104.435716	0.828433
0.003872	1.494333	151.747097	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.034350	-78.312017	-1.349196
-0.003773	-0.768156	-38.234872	
0.14082	-10.034350	-78.312017	-1.349196
-0.003773	-0.203110	-38.093774	
0.28164	-10.034350	-78.312017	-1.349196
-0.003773	-0.235853	-58.656474	
0.42246	-10.034350	-78.312017	-1.349196
-0.003773	-0.583155	-82.185532	
0.56328	-10.034350	-78.312017	-1.349196
-0.003773	-0.930434	-116.448257	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.002290	12.070633	0.479689
1.18E-05	0.265765	9.984326	
0.14082	3.002290	12.070633	0.479689
1.18E-05	0.064706	5.693081	
0.28164	3.002290	12.070633	0.479689
1.18E-05	0.204885	2.708874	
0.42246	3.002290	12.070633	0.479689
1.18E-05	0.513671	2.124344	
0.56328	3.002290	12.070633	0.479689
1.18E-05	0.822473	2.615772	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2315

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.338153	-10.745685	-0.736714
-0.001030	-0.412819	-35.996143	
0.14082	-1.338153	-10.745685	-0.736714
-0.001030	-0.103985	-31.970566	
0.28164	-1.338153	-10.745685	-0.736714
-0.001030	-0.136436	-26.205833	
0.42246	-1.338153	-10.745685	-0.736714
-0.001030	-0.337516	-24.522951	
0.56328	-1.338153	-10.745685	-0.736714
-0.001030	-0.538595	-20.980819	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.025453	21.477945	0.800128
0.000249	0.446288	16.813530	
0.14082	7.025453	21.477945	0.800128
0.000249	0.110988	12.185854	
0.28164	7.025453	21.477945	0.800128
0.000249	0.341509	13.174992	
0.42246	7.025453	21.477945	0.800128
0.000249	0.856783	19.551805	
0.56328	7.025453	21.477945	0.800128
0.000249	1.372468	27.055997	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.167675	-30.966914	-1.230587
-0.001896	-0.690949	-54.416185	
0.14082	-2.167675	-30.966914	-1.230587
-0.001896	-0.421751	-46.737144	
0.28164	-2.167675	-30.966914	-1.230587
-0.001896	-0.225160	-40.120264	
0.42246	-2.167675	-30.966914	-1.230587
-0.001896	-0.560614	-35.775862	
0.56328	-2.167675	-30.966914	-1.230587
-0.001896	-0.896023	-34.239134	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.428212	24.208117	0.872308
0.000325	0.487400	24.912410	
0.14082	9.428212	24.208117	0.872308
0.000325	0.121906	77.721110	
0.28164	9.428212	24.208117	0.872308
0.000325	0.397588	101.120584	
0.42246	9.428212	24.208117	0.872308
0.000325	1.000126	129.204557	
0.56328	9.428212	24.208117	0.872308
0.000325	1.603310	158.448453	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.508800	-82.110556	-1.439644
-0.001615	-0.810674	-48.855763	
0.14082	-2.508800	-82.110556	-1.439644
-0.001615	-0.207282	-44.839276	
0.28164	-2.508800	-82.110556	-1.439644
-0.001615	-0.245014	-41.047690	
0.42246	-2.508800	-82.110556	-1.439644
-0.001615	-0.610706	-38.936084	
0.56328	-2.508800	-82.110556	-1.439644
-0.001615	-0.976378	-39.342431	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.483998	98.822522	0.850667
0.004088	0.482427	117.284450	
0.14082	8.483998	98.822522	0.850667
0.004088	0.128466	103.679980	
0.28164	8.483998	98.822522	0.850667
0.004088	0.388522	105.196312	
0.42246	8.483998	98.822522	0.850667
0.004088	0.969209	123.066032	
0.56328	8.483998	98.822522	0.850667
0.004088	1.556743	149.320474	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.105778	-75.991408	-1.408335
-0.004399	-0.804932	-44.168377	
0.14082	-9.105778	-75.991408	-1.408335
-0.004399	-0.215134	-38.435629	
0.28164	-9.105778	-75.991408	-1.408335
-0.004399	-0.242054	-49.290357	
0.42246	-9.105778	-75.991408	-1.408335
-0.004399	-0.598693	-66.671460	
0.56328	-9.105778	-75.991408	-1.408335
-0.004399	-0.955284	-96.710869	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.405137	55.384321	0.419279
0.001416	0.233583	3.048715	
0.14082	3.405137	55.384321	0.419279
0.001416	0.057940	3.383446	
0.28164	3.405137	55.384321	0.419279
0.001416	0.193656	10.136760	
0.42246	3.405137	55.384321	0.419279
0.001416	0.453546	19.110099	
0.56328	3.405137	55.384321	0.419279
0.001416	0.723230	28.175207	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.275098	-22.143045	-0.643211
-4.34E-06	-0.355017	-33.894717	
0.14082	-6.275098	-22.143045	-0.643211
-4.34E-06	-0.084756	-50.345322	
0.28164	-6.275098	-22.143045	-0.643211
-4.34E-06	-0.117129	-71.107960	
0.42246	-6.275098	-22.143045	-0.643211
-4.34E-06	-0.292670	-94.169130	
0.56328	-6.275098	-22.143045	-0.643211
-4.34E-06	-0.468864	-117.251047	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.995226	144.506966	0.606600
0.008129	0.368051	121.075276	
0.14082	3.995226	144.506966	0.606600
0.008129	0.113649	96.163229	
0.28164	3.995226	144.506966	0.606600
0.008129	0.280063	78.094545	
0.42246	3.995226	144.506966	0.606600
0.008129	0.684614	81.038124	
0.56328	3.995226	144.506966	0.606600
0.008129	1.102874	96.926587	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.793776	-44.720004	-1.011993
-0.006086	-0.004198	-5.066199	
0.14082	-14.793776	-44.720004	-1.011993
-0.006086	-0.170423	-47.221512	
0.28164	-14.793776	-44.720004	-1.011993
-0.006086	-0.166919	-73.540411	
0.42246	-14.793776	-44.720004	-1.011993
-0.006086	-0.407955	-107.173203	
0.56328	-14.793776	-44.720004	-1.011993
-0.006086	-0.656341	-165.187297	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.122194	123.294634	0.938627
0.006060	0.546224	119.941940	
0.14082	7.122194	123.294634	0.938627
0.006060	0.153687	119.608130	
0.28164	7.122194	123.294634	0.938627
0.006060	0.419756	125.744844	
0.42246	7.122194	123.294634	0.938627
0.006060	1.043902	147.289204	
0.56328	7.122194	123.294634	0.938627
0.006060	1.676564	178.142438	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.525448	-79.356145	-1.519350
-0.004466	-0.870045	-25.269722	
0.14082	-12.525448	-79.356145	-1.519350
-0.004466	-0.232509	-47.406046	
0.28164	-12.525448	-79.356145	-1.519350
-0.004466	-0.259094	-74.092470	
0.42246	-12.525448	-79.356145	-1.519350
-0.004466	-0.643236	-106.366785	
0.56328	-12.525448	-79.356145	-1.519350
-0.004466	-1.032574	-155.943357	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.931102	110.825226	1.232108
0.005035	0.709677	103.804497	
0.14082	8.931102	110.825226	1.232108
0.005035	0.190949	100.774649	
0.28164	8.931102	110.825226	1.232108
0.005035	0.522079	106.575157	
0.42246	8.931102	110.825226	1.232108
0.005035	1.301881	126.542044	
0.56328	8.931102	110.825226	1.232108
0.005035	2.088331	154.448831	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.111599	-78.475067	-1.884578
-0.004292	-1.070158	-42.745251	
0.14082	-11.111599	-78.475067	-1.884578
-0.004292	-0.279790	-57.340653	
0.28164	-11.111599	-78.475067	-1.884578
-0.004292	-0.341525	-77.744739	
0.42246	-11.111599	-78.475067	-1.884578
-0.004292	-0.850279	-103.888484	
0.56328	-11.111599	-78.475067	-1.884578
-0.004292	-1.363346	-144.564268	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.799791	54.480878	0.256030
0.004543	0.165417	119.016544	
0.14082	1.799791	54.480878	0.256030
0.004543	0.058104	114.035682	
0.28164	1.799791	54.480878	0.256030
0.004543	0.126272	109.333649	
0.42246	1.799791	54.480878	0.256030
0.004543	0.312871	117.546931	
0.56328	1.799791	54.480878	0.256030
0.004543	0.509169	134.805236	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.058226	-46.187444	-0.478083
-0.004264	-0.292433	-3.048241	
0.14082	-6.058226	-46.187444	-0.478083
-0.004264	-0.092264	-2.800602	
0.28164	-6.058226	-46.187444	-0.478083
-0.004264	-0.068477	-3.023124	
0.42246	-6.058226	-46.187444	-0.478083
-0.004264	-0.166948	-6.798720	
0.56328	-6.058226	-46.187444	-0.478083
-0.004264	-0.269722	-27.675750	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.250118	60.091473	0.762681
0.004335	0.449583	124.233904	
0.14082	6.250118	60.091473	0.762681
0.004335	0.130269	127.523634	
0.28164	6.250118	60.091473	0.762681
0.004335	0.331425	134.096744	
0.42246	6.250118	60.091473	0.762681
0.004335	0.829711	153.933005	
0.56328	6.250118	60.091473	0.762681
0.004335	1.336550	182.596992	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.625589	-74.067075	-1.218408
-0.004457	-0.705297	-13.856874	
0.14082	-5.625589	-74.067075	-1.218408
-0.004457	-0.194257	-13.741437	
0.28164	-5.625589	-74.067075	-1.218408
-0.004457	-0.208974	-15.322890	
0.42246	-5.625589	-74.067075	-1.218408
-0.004457	-0.519343	-20.832119	
0.56328	-5.625589	-74.067075	-1.218408
-0.004457	-0.834820	-42.896017	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.157287	104.145518	0.948269
0.003937	0.543293	118.706653	
0.14082	7.157287	104.145518	0.948269
0.003937	0.145738	110.157076	
0.28164	7.157287	104.145518	0.948269
0.003937	0.421264	123.994723	
0.42246	7.157287	104.145518	0.948269
0.003937	1.052419	149.494991	
0.56328	7.157287	104.145518	0.948269
0.003937	1.688974	181.107262	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.567545	-80.390736	-1.524428
-0.002882	-1.385768	-19.346367	
0.14082	-10.567545	-80.390736	-1.524428
-0.002882	-0.226581	-20.466855	
0.28164	-10.567545	-80.390736	-1.524428
-0.002882	-0.264127	-45.529007	
0.42246	-10.567545	-80.390736	-1.524428
-0.002882	-0.655809	-75.559247	
0.56328	-10.567545	-80.390736	-1.524428
-0.002882	-1.050599	-116.606845	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.142350	96.350917	1.278856
0.003299	0.724512	105.846670	
0.14082	8.142350	96.350917	1.278856
0.003299	0.188505	94.872378	
0.28164	8.142350	96.350917	1.278856
0.003299	0.535046	103.961727	
0.42246	8.142350	96.350917	1.278856
0.003299	1.338505	125.127932	
0.56328	8.142350	96.350917	1.278856
0.003299	2.146038	151.378320	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.807503	-76.220662	-1.931515
-0.003147	-1.089783	-41.399503	
0.14082	-9.807503	-76.220662	-1.931515
-0.003147	-0.280515	-38.836387	
0.28164	-9.807503	-76.220662	-1.931515
-0.003147	-0.355247	-57.218502	
0.42246	-9.807503	-76.220662	-1.931515
-0.003147	-0.889002	-81.664184	
0.56328	-9.807503	-76.220662	-1.931515
-0.003147	-1.422855	-115.284742	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.859247	15.208750	0.766249
9.17E-06	0.425508	13.401148	
0.14082	2.859247	15.208750	0.766249
9.17E-06	0.104211	7.724182	
0.28164	2.859247	15.208750	0.766249
9.17E-06	0.286011	3.267238	
0.42246	2.859247	15.208750	0.766249
9.17E-06	0.717850	3.133584	
0.56328	2.859247	15.208750	0.766249
9.17E-06	1.149191	3.995950	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.143507	-12.846548	-1.028466
-0.001054	-0.573728	-41.011958	
0.14082	-2.143507	-12.846548	-1.028466
-0.001054	-0.142596	-36.275264	
0.28164	-2.143507	-12.846548	-1.028466
-0.001054	-0.216981	-32.216489	
0.42246	-2.143507	-12.846548	-1.028466
-0.001054	-0.538235	-31.992641	
0.56328	-2.143507	-12.846548	-1.028466
-0.001054	-0.859459	-32.269898	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.161487	25.351449	1.264388
0.000174	0.705953	19.742393	
0.14082	7.161487	25.351449	1.264388
0.000174	0.175825	13.618460	
0.28164	7.161487	25.351449	1.264388
0.000174	0.481243	13.744923	
0.42246	7.161487	25.351449	1.264388
0.000174	1.208100	20.363558	
0.56328	7.161487	25.351449	1.264388
0.000174	1.934246	28.371176	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.848670	-33.223103	-1.731914
-0.001767	-0.967216	-59.850963	
0.14082	-2.848670	-33.223103	-1.731914
-0.001767	-0.241538	-51.278098	
0.28164	-2.848670	-33.223103	-1.731914
-0.001767	-0.354700	-46.555798	
0.42246	-2.848670	-33.223103	-1.731914
-0.001767	-0.884503	-46.977080	
0.56328	-2.848670	-33.223103	-1.731914
-0.001767	-1.414425	-48.687120	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.641669	25.026608	1.410625
7.72E-06	0.786161	65.516154	
0.14082	8.641669	25.026608	1.410625
7.72E-06	0.196579	81.430804	
0.28164	8.641669	25.026608	1.410625
7.72E-06	0.561289	101.908062	
0.42246	8.641669	25.026608	1.410625
7.72E-06	1.415223	127.764616	
0.56328	8.641669	25.026608	1.410625
7.72E-06	2.267381	154.546589	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.234650	-77.219860	-2.031996
-0.001312	-1.136631	-53.591365	
0.14082	-3.234650	-77.219860	-2.031996
-0.001312	-0.283884	-48.716645	
0.28164	-3.234650	-77.219860	-2.031996
-0.001312	-0.395256	-46.111697	
0.42246	-3.234650	-77.219860	-2.031996
-0.001312	-0.986091	-47.900478	
0.56328	-3.234650	-77.219860	-2.031996
-0.001312	-1.577529	-50.334512	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.874821	89.529592	1.353431
0.003190	0.766567	119.340506	
0.14082	7.874821	89.529592	1.353431
0.003190	0.199079	106.415756	
0.28164	7.874821	89.529592	1.353431
0.003190	0.555764	108.746225	
0.42246	7.874821	89.529592	1.353431
0.003190	1.392345	127.035403	
0.56328	7.874821	89.529592	1.353431
0.003190	2.233434	152.032214	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.453344	-74.402460	-2.011490
-0.003495	-1.137029	-48.848212	
0.14082	-9.453344	-74.402460	-2.011490
-0.003495	-0.293500	-42.011597	
0.28164	-9.453344	-74.402460	-2.011490
-0.003495	-0.379717	-51.024891	
0.42246	-9.453344	-74.402460	-2.011490
-0.003495	-0.941632	-69.995075	
0.56328	-9.453344	-74.402460	-2.011490
-0.003495	-1.506389	-99.512987	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.428212	153.721977	0.872308
0.008048	0.487400	123.768717	
0.14082	9.428212	153.721977	0.872308
0.008048	0.128466	126.611453	
0.28164	9.428212	153.721977	0.872308
0.008048	0.397588	133.274499	
0.42246	9.428212	153.721977	0.872308
0.008048	1.203026	154.937481	
0.56328	9.428212	153.721977	0.872308
0.008048	1.603310	187.476840	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.408203	-84.501781	-1.439644
-0.006085	-0.810674	-54.416185	
0.14082	-15.408203	-84.501781	-1.439644
-0.006085	-0.215134	-55.182541	
0.28164	-15.408203	-84.501781	-1.439644
-0.006085	-0.445014	-78.384526	
0.42246	-15.408203	-84.501781	-1.439644
-0.006085	-0.610706	-114.310630	
0.56328	-15.408203	-84.501781	-1.439644
-0.006085	-0.976378	-172.267217	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.931102	144.506966	1.410625
0.008129	0.788161	124.233904	
0.14082	8.931102	144.506966	1.410625
0.008129	0.199079	127.523634	
0.28164	8.931102	144.506966	1.410625
0.008129	0.561289	134.096744	
0.42246	8.931102	144.506966	1.410625
0.008129	1.415223	153.933005	
0.56328	8.931102	144.506966	1.410625
0.008129	2.267381	182.596992	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.793776	-80.390736	-2.031996
-0.006086	-1.137029	-59.850963	
0.14082	-14.793776	-80.390736	-2.031996
-0.006086	-0.293500	-57.340653	
0.28164	-14.793776	-80.390736	-2.031996
-0.006086	-0.395256	-77.744739	
0.42246	-14.793776	-80.390736	-2.031996
-0.006086	-0.986091	-107.173203	
0.56328	-14.793776	-80.390736	-2.031996
-0.006086	-1.577529	-165.187297	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.428212	153.721977	1.410625
0.008129	0.788161	124.233904	
0.14082	9.428212	153.721977	1.410625
0.008129	0.199079	127.523634	
0.28164	9.428212	153.721977	1.410625
0.008129	0.561289	134.096744	
0.42246	9.428212	153.721977	1.410625
0.008129	1.415223	155.431177	
0.56328	9.428212	153.721977	1.410625
0.008129	2.267381	187.476840	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.408203	-84.501781	-2.031996
-0.006086	-1.137029	-59.850963	
0.14082	-15.408203	-84.501781	-2.031996
-0.006086	-0.293500	-57.340653	
0.28164	-15.408203	-84.501781	-2.031996
-0.006086	-0.395256	-78.384526	
0.42246	-15.408203	-84.501781	-2.031996
-0.006086	-0.986091	-114.310630	
0.56328	-15.408203	-84.501781	-2.031996
-0.006086	-1.577529	-172.267217	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.428212	153.721977	1.410625
0.008129	0.788161	124.233904	
0.14082	9.428212	153.721977	1.410625
0.008129	0.199079	127.523634	
0.28164	9.428212	153.721977	1.410625
0.008129	0.561289	134.096744	
0.42246	9.428212	153.721977	1.410625
0.008129	1.415223	155.431177	
0.56328	9.428212	153.721977	1.410625
0.008129	2.267381	187.476840	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.408203	-84.501781	-2.031996
-0.006086	-1.137029	-59.850963	
0.14082	-15.408203	-84.501781	-2.031996
-0.006086	-0.293500	-57.340653	
0.28164	-15.408203	-84.501781	-2.031996
-0.006086	-0.395256	-78.384526	
0.42246	-15.408203	-84.501781	-2.031996
-0.006086	-0.986091	-114.310630	
0.56328	-15.408203	-84.501781	-2.031996
-0.006086	-1.577529	-172.267217	

ELEM 208 ========== LENGTH = 2.977509

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.535005	73.469184	0.492914
0.001267	0.544243	100.780740	
0.57745	0.535005	73.469184	0.492914
0.001267	0.337525	70.024715	
0.71830	0.535005	73.469184	0.492914
0.001267	0.130831	39.347949	
0.85915	0.535005	73.469184	0.492914
0.001267	0.079477	8.951465	
1.00000	0.535005	73.469184	0.492914
0.001267	0.308291	2.660644	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.352977	-9.670631	-0.545525
-0.000133	-0.606836	-20.674880	
0.57745	-10.352977	-9.670631	-0.545525
-0.000133	-0.378061	-16.753788	
0.71830	-10.352977	-9.670631	-0.545525
-0.000133	-0.149300	-13.207887	
0.85915	-10.352977	-9.670631	-0.545525
-0.000133	-0.076003	-9.887260	
1.00000	-10.352977	-9.670631	-0.545525
-0.000133	-0.282624	-23.728162	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	5.120192	104.644744	0.661520
0.007726	0.706302	193.654436	
0.57745	5.120192	104.644744	0.661520
0.007726	0.429871	152.711288	
0.71830	5.120192	104.644744	0.661520
0.007726	0.173426	126.319908	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85915	5.120192	104.644744	0.661520
0.007726	0.135075	116.936311	
1.00000	5.120192	104.644744	0.661520
0.007726	0.451936	122.470205	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-13.069638	-93.417186	-0.758484
-0.006303	-0.820635	-50.273244	
0.57745	-13.069638	-93.417186	-0.758484
-0.006303	-0.507719	-25.645054	
0.71830	-13.069638	-93.417186	-0.758484
-0.006303	-0.205911	-18.661987	
0.85915	-13.069638	-93.417186	-0.758484
-0.006303	-0.128240	-13.886526	
1.00000	-13.069638	-93.417186	-0.758484
-0.006303	-0.404712	-11.977897	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.527698	94.407492	0.763602
0.005713	0.829407	184.247014	
0.57745	8.527698	94.407492	0.763602
0.005713	0.509854	147.778591	
0.71830	8.527698	94.407492	0.763602
0.005713	0.203955	121.882699	
0.85915	8.527698	94.407492	0.763602
0.005713	0.151652	109.750641	
1.00000	8.527698	94.407492	0.763602
0.005713	0.554109	120.637567	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.091334	-121.391225	-0.962534
-0.004761	-1.061011	-95.967719	
0.57745	-12.091334	-121.391225	-0.962534
-0.004761	-0.660954	-54.481210	
0.71830	-12.091334	-121.391225	-0.962534
-0.004761	-0.268608	-23.482759	
0.85915	-12.091334	-121.391225	-0.962534
-0.004761	-0.132942	-13.931035	
1.00000	-12.091334	-121.391225	-0.962534
-0.004761	-0.452473	-11.512696	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	10.101711	82.333689	0.889845
0.004745	0.972880	162.266199	
0.57745	10.101711	82.333689	0.889845
0.004745	0.600270	130.349259	
0.71830	10.101711	82.333689	0.889845
0.004745	0.238983	107.232208	
0.85915	10.101711	82.333689	0.889845
0.004745	0.173736	95.564199	
1.00000	10.101711	82.333689	0.889845
0.004745	0.654019	103.093768	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.597900	-117.344679	-1.149185

```
-0.004320   -1.274110 -128.513811
0.57745  -10.597900 -117.344679   -1.149185
-0.004320   -0.795189   -87.413637
0.71830  -10.597900 -117.344679   -1.149185
-0.004320   -0.322692   -35.442818
0.85915  -10.597900 -117.344679   -1.149185
-0.004320   -0.147992   -41.656209
1.00000  -10.597900 -117.344679   -1.149185
-0.004320   -0.520612   -33.384169

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    5.967825    9.295088    0.140188
0.005505    0.136056   50.899172
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   2323

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
              T          M2          M3
0.57745    5.967825    9.295088    0.140188
0.005505    0.078104   50.424456
0.71830    5.967825    9.295088    0.140188
0.005505    0.036861   62.548130
0.85915    5.967825    9.295088    0.140188
0.005505    0.052384   91.502081
1.00000    5.967825    9.295088    0.140188
0.005505    0.149868  132.068411

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -0.795250 -101.608889   -0.235288
-0.005482   -0.245218   -45.537017
0.57745   -0.795250 -101.608889   -0.235288
-0.005482   -0.150875   -15.303164
0.71830   -0.795250 -101.608889   -0.235288
-0.005482   -0.065879    -3.766861
0.85915   -0.795250 -101.608889   -0.235288
-0.005482   -0.042190    -2.969750
1.00000   -0.795250 -101.608889   -0.235288
-0.005482   -0.100226    -2.260681

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661   10.476697    9.829188    0.394180
0.005157    0.420355   55.102701
0.57745   10.476697    9.829188    0.394180
0.005157    0.255842   54.529165
0.71830   10.476697    9.829188    0.394180
0.005157    0.106850   66.049896
0.85915   10.476697    9.829188    0.394180
0.005157    0.098489   93.234186
1.00000   10.476697    9.829188    0.394180
0.005157    0.347422  136.572452

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -1.389404 -136.839072   -0.598465
-0.005609   -0.656943   -106.319231
0.57745   -1.389404 -136.839072   -0.598465
-0.005609   -0.410128   -60.017576
0.71830   -1.389404 -136.839072   -0.598465
-0.005609   -0.172111   -26.169918
0.85915   -1.389404 -136.839072   -0.598465
-0.005609   -0.077333   -16.549515
1.00000   -1.389404 -136.839072   -0.598465
-0.005609   -0.241946   -12.832303

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    9.493704   83.950324    0.685527
0.004470    0.747318  194.947962
0.57745    9.493704   83.950324    0.685527
0.004470    0.460368  162.600512
0.71830    9.493704   83.950324    0.685527
0.004470    0.184419  139.075605
0.85915    9.493704   83.950324    0.685527
0.004470    0.137822  127.522265
1.00000    9.493704   83.950324    0.685527
0.004470    0.512200  131.213681

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -9.392286 -119.952934   -0.896609
-0.004126   -0.992194 -107.765796
0.57745   -9.392286 -119.952934   -0.896609
-0.004126   -0.619177   -65.404562
0.71830   -9.392286 -119.952934   -0.896609
-0.004126   -0.252398   -32.334791
0.85915   -9.392286 -119.952934   -0.896609
-0.004126   -0.116461   -21.550136
1.00000   -9.392286 -119.952934   -0.896609
-0.004126   -0.403416   -15.917544
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   2324

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661   10.826202   74.477432    0.841702
0.003741    0.923008  174.121208
0.57745   10.826202   74.477432    0.841702
0.003741    0.570485  145.267968
0.71830   10.826202   74.477432    0.841702
0.003741    0.227181  123.795308
0.85915   10.826202   74.477432    0.841702
0.003741    0.166254  112.322464
1.00000   10.826202   74.477432    0.841702
0.003741    0.634550  113.511077

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -8.063740 -112.400995   -1.120304
-0.003805   -1.245100 -138.688352
0.57745   -8.063740 -112.400995   -1.120304
-0.003805   -0.777766   -98.237297
0.71830   -8.063740 -112.400995   -1.120304
-0.003805   -0.315750   -65.426819
0.85915   -8.063740 -112.400995   -1.120304
-0.003805   -0.136988   -51.248107
1.00000   -8.063740 -112.400995   -1.120304
-0.003805   -0.489588   -41.646944

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    4.602835    7.736570    0.423774
7.03E-06    0.470543   20.587662
0.57745    4.602835    7.736570    0.423774
7.03E-06    0.292822   17.352290
0.71830    4.602835    7.736570    0.423774
7.03E-06    0.115124   14.140819
0.85915    4.602835    7.736570    0.423774
7.03E-06    0.080710   10.992762
1.00000    4.602835    7.736570    0.423774
7.03E-06    0.325575    7.897310

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -0.322008  -17.574670   -0.584567
-0.000545   -0.655123   -74.722953
0.57745   -0.322008  -17.574670   -0.584567
-0.000545   -0.409976   -67.555425
0.71830   -0.322008  -17.574670   -0.584567
-0.000545   -0.164943   -60.409392
0.85915   -0.322008  -17.574670   -0.584567
-0.000545   -0.062540   -53.282452
1.00000   -0.322008  -17.574670   -0.584567
-0.000545   -0.240342   -46.240404

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    8.528244   11.005828    0.692152
0.000204    0.768180   28.212709
0.57745    8.528244   11.005828    0.692152
0.000204    0.477935   23.999729
0.71830    8.528244   11.005828    0.692152
0.000204    0.188349   20.390977
0.85915    8.528244   11.005828    0.692152
0.000204    0.131004   17.361822
1.00000    8.528244   11.005828    0.692152
0.000204    0.528250   15.006530

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -1.112097  -45.066851   -0.951252
-0.001178   -1.067606  -130.942951
0.57745   -1.112097  -45.066851   -0.951252
-0.001178   -0.668859  -113.193539
0.71830   -1.112097  -45.066851   -0.951252
-0.001178   -0.270658   -96.414413
0.85915   -1.112097  -45.066851   -0.951252
-0.001178   -0.102596   -80.008676
1.00000   -1.112097  -45.066851   -0.951252
-0.001178   -0.392949   -64.202598
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   2325

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661   11.853146   10.508719    0.736823
0.000546    0.818804   47.159884
0.57745   11.853146   10.508719    0.736823
0.000546    0.509837   44.406680
0.71830   11.853146   10.508719    0.736823
0.000546    0.201909   43.514087
0.85915   11.853146   10.508719    0.736823
0.000546    0.145897   46.908628
1.00000   11.853146   10.508719    0.736823
0.000546    0.595794   65.574976

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -1.058528  -98.994337   -1.075893
-0.001579   -1.209304   -161.633101
0.57745   -1.058528  -98.994337   -1.075893
-0.001579   -0.758535   -121.246361
0.71830   -1.058528  -98.994337   -1.075893
-0.001579   -0.308586   -83.037177
0.85915   -1.058528  -98.994337   -1.075893
-0.001579   -0.108293   -68.036508
1.00000   -1.058528  -98.994337   -1.075893
-0.001579   -0.417315   -57.883748

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661   12.113039   59.453216    0.824793
0.003973    0.902775  156.575200
0.57745   12.113039   59.453216    0.824793
0.003973    0.557452  134.222465
0.71830   12.113039   59.453216    0.824793
0.003973    0.223020  120.514985
0.85915   12.113039   59.453216    0.824793
0.003973    0.160360  118.060169
1.00000   12.113039   59.453216    0.824793
0.003973    0.639144  127.905928

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -5.741706 -118.380407   -1.126422
-0.004428   -1.250833   -150.101993
0.57745   -5.741706 -118.380407   -1.126422
-0.004428   -0.781391   -108.365103
0.71830   -5.741706 -118.380407   -1.126422
-0.004428   -0.311892   -75.453156
0.85915   -5.741706 -118.380407   -1.126422
-0.004428   -0.136116   -60.979202
1.00000   -5.741706 -118.380407   -1.126422
-0.004428   -0.481583   -50.975119

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    0.536203   71.467618    0.542596
0.001156    0.601701   95.955201
0.57745    0.536203   71.467618    0.542596
0.001156    0.373938   66.316240
0.71830    0.536203   71.467618    0.542596
0.001156    0.145851   37.024480
0.85915    0.536203   71.467618    0.542596
0.001156    0.104884    9.003244
1.00000    0.536203   71.467618    0.542596
0.001156    0.418092    3.166449

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -9.966057  -12.248909   -0.745228
-0.000116   -0.831649   -29.057906
0.57745   -9.966057  -12.248909   -0.745228
-0.000116   -0.519009   -24.249827
0.71830   -9.966057  -12.248909   -0.745228
-0.000116   -0.206353   -19.909568
0.85915   -9.966057  -12.248909   -0.745228
-0.000116   -0.079622   -16.705495
1.00000   -9.966057  -12.248909   -0.745228
-0.000116   -0.307638   -34.08041
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   2326

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    5.631067  100.372219    0.787272
0.007584    0.845173  191.137319
0.57745    5.631067  100.372219    0.787272
0.007584    0.515729  154.286165
0.71830    5.631067  100.372219    0.787272
0.007584    0.208114  130.895392
0.85915    5.631067  100.372219    0.787272
0.007584    0.180317  123.488449
1.00000    5.631067  100.372219    0.787272
0.007584    0.629691  130.699284

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -12.261325   -93.403646   -1.071555
-0.006277   -1.167482   -64.663610
0.57745   -12.261325   -93.403646   -1.071555
-0.006277   -0.724196   -34.666136
0.71830   -12.261325   -93.403646   -1.071555
-0.006277   -0.292321   -25.970997
0.85915   -12.261325   -93.403646   -1.071555
-0.006277   -0.144453   -19.995778
1.00000   -12.261325   -93.403646   -1.071555
-0.006277   -0.475107   -24.268855

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    8.387229   90.449973    0.991833
0.005771    1.083775  177.623156
0.57745    8.387229   90.449973    0.991833
0.005771    0.668192  144.872251
0.71830    8.387229   90.449973    0.991833
0.005771    0.268271  123.218414
0.85915    8.387229   90.449973    0.991833
0.005771    0.213598  120.017854
1.00000    8.387229   90.449973    0.991833
0.005771    0.800266  134.720362

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -11.284800 -117.188000   -1.398227
-0.004848   -1.543307   -98.553874
0.57745   -11.284800 -117.188000   -1.398227
-0.004848   -0.961345   -57.068532
0.71830   -11.284800 -117.188000   -1.398227
-0.004848   -0.386871   -31.354399
0.85915   -11.284800 -117.188000   -1.398227
-0.004848   -0.163699   -19.573478
1.00000   -11.284800 -117.188000   -1.398227
-0.004848   -0.579488   -22.587360

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    9.684287   79.913765    1.208511
0.004794    1.328525  159.473248
0.57745    9.684287   79.913765    1.208511
0.004794    0.821955  130.292153
0.71830    9.684287   79.913765    1.208511
0.004794    0.328517  110.348667
0.85915    9.684287   79.913765    1.208511
0.004794    0.247151  105.737745
1.00000    9.684287   79.913765    1.208511
0.004794    0.946552  115.990154

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -9.985007 -115.882348   -1.667755
-0.004341   -1.848766   -135.903521
0.57745   -9.985007 -115.882348   -1.667755
-0.004341   -1.152925   -93.907827
0.71830   -9.985007 -115.882348   -1.667755
-0.004341   -0.463319   -65.180070
0.85915   -9.985007 -115.882348   -1.667755
-0.004341   -0.191598   -48.452769
1.00000   -9.985007 -115.882348   -1.667755
-0.004341   -0.698331   -43.898458
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   2327

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    5.930637    9.722656    0.231800
0.004627    0.239239   55.742178
0.57745    5.930637    9.722656    0.231800
0.004627    0.142950   57.406409
0.71830    5.930637    9.722656    0.231800
0.004627    0.061745   70.675613
0.85915    5.930637    9.722656    0.231800
0.004627    0.067379   98.627746
1.00000    5.930637    9.722656    0.231800
0.004627    0.211592  132.366747

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -0.802405  -89.515156   -0.344529
-0.004584   -0.366338   -46.180321
0.57745   -0.802405  -89.515156   -0.344529
-0.004584   -0.226250   -16.751262
0.71830   -0.802405  -89.515156   -0.344529
-0.004584   -0.086162   -3.817262
0.85915   -0.802405  -89.515156   -0.344529
-0.004584   -0.052968   -3.817262
1.00000   -0.802405  -89.515156   -0.344529
-0.004584   -0.149660   -2.754785

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    9.662033   10.846481    0.627351
0.004464    0.682139   57.442988
0.57745    9.662033   10.846481    0.627351
0.004464    0.419881   58.392630
0.71830    9.662033   10.846481    0.627351
0.004464    0.172292   70.379865
0.85915    9.662033   10.846481    0.627351
0.004464    0.142458  101.315004
1.00000    9.662033   10.846481    0.627351
0.004464    0.523711  140.658661

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -1.396055 -122.518167   -0.911357
-0.004794   -1.002925   -99.133346
0.57745   -1.396055 -122.518167   -0.911357
-0.004794   -0.625103   -55.566020
0.71830   -1.396055 -122.518167   -0.911357
-0.004794   -0.254093   -27.531932
0.85915   -1.396055 -122.518167   -0.911357
-0.004794   -0.108432   -16.816468
1.00000   -1.396055 -122.518167   -0.911357
-0.004794   -0.370552   -12.527495

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    8.754646   81.588875    0.936785
0.003639    1.031595  195.418671
0.57745    8.754646   81.588875    0.936785
0.003639    0.639048  165.535205
0.71830    8.754646   81.588875    0.936785
0.003639    0.256238  143.609265
0.85915    8.754646   81.588875    0.936785
0.003639    0.193782  136.530547
1.00000    8.754646   81.588875    0.936785
0.003639    0.746693  137.183444

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -8.595486 -108.013864   -1.318524
-0.003283   -1.462893   -105.270753
0.57745   -8.595486 -108.013864   -1.318524
-0.003283   -0.912720   -65.692783
0.71830   -8.595486 -108.013864   -1.318524
-0.003283   -0.366963   -36.945463
0.85915   -8.595486 -108.013864   -1.318524
-0.003283   -0.147010   -24.337444
1.00000   -8.595486 -108.013864   -1.318524
-0.003283   -0.539214   -17.384504
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   2328

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661   10.178745   73.951676    1.208083
0.003051    1.335176  179.061483
0.57745   10.178745   73.951676    1.208083
0.003051    0.828819  151.648053
0.71830   10.178745   73.951676    1.208083
0.003051    0.330649  130.882939
0.85915   10.178745   73.951676    1.208083
0.003051    0.236193  122.570048
1.00000   10.178745   73.951676    1.208083
0.003051    0.923554  120.780287

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -7.470440 -105.495079   -1.639447
-0.003085   -1.823087   -145.282731
0.57745   -7.470440 -105.495079   -1.639447
-0.003085   -1.137505   -105.941617
0.71830   -7.470440 -105.495079   -1.639447
-0.003085   -0.456234   -75.664539
0.85915   -7.470440 -105.495079   -1.639447
-0.003085   -0.184690   -58.724713
1.00000   -7.470440 -105.495079   -1.639447
-0.003085   -0.690830   -46.803320

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    4.734272   10.286893    0.680579
4.12E-06    0.757035   28.727331
0.57745    4.734272   10.286893    0.680579
4.12E-06    0.471665   24.426230
0.71830    4.734272   10.286893    0.680579
4.12E-06    0.186198   20.143684
0.85915    4.734272   10.286893    0.680579
4.12E-06    0.116327   15.887606
1.00000    4.734272   10.286893    0.680579
4.12E-06    0.468560   11.685720

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -0.379543  -21.629117   -0.840354
-0.000510   -0.939142   -89.426480
0.57745   -0.379543  -21.629117   -0.840354
-0.000510   -0.586543   -80.485173
0.71830   -0.379543  -21.629117   -0.840354
-0.000510   -0.233542   -71.564236
0.85915   -0.379543  -21.629117   -0.840354
-0.000510   -0.098985   -62.715494
1.00000   -0.379543  -21.629117   -0.840354
-0.000510   -0.384700   -53.945361

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661    8.155964   14.280251    1.090657
0.000131    1.213506   38.458798
0.57745    8.155964   14.280251    1.090657
0.000131    0.756100   32.767510
0.71830    8.155964   14.280251    1.090657
0.000131    0.299130   27.405771
0.85915    8.155964   14.280251    1.090657
0.000131    0.193833   22.550402
1.00000    8.155964   14.280251    1.090657
0.000131    0.780785   18.577658

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -1.290710  -49.929425   -1.401786
-0.001028   -1.567705   -148.685578
0.57745   -1.290710  -49.929425   -1.401786
-0.001028   -0.979068   -128.417046
0.71830   -1.290710  -49.929425   -1.401786
-0.001028   -0.391412   -108.909434
0.85915   -1.290710  -49.929425   -1.401786
-0.001028   -0.158787   -90.331538
1.00000   -1.290710  -49.929425   -1.401786
-0.001028   -0.616206   -72.619500
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   2329

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661   11.062421   13.261183    1.172884
0.000224    1.308141   53.264752
0.57745   11.062421   13.261183    1.172884
0.000224    0.816337   50.362000
0.71830   11.062421   13.261183    1.172884
0.000224    0.324497   50.205879
0.85915   11.062421   13.261183    1.172884
0.000224    0.214468   58.752841
1.00000   11.062421   13.261183    1.172884
0.000224    0.874475   75.003490

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -1.131995  -94.414175   -1.575225
-0.001117   -1.763604   -167.529584
0.57745   -1.131995  -94.414175   -1.575225
-0.001117   -1.102499   -130.302157
0.71830   -1.131995  -94.414175   -1.575225
-0.001117   -0.441505   -95.609098
0.85915   -1.131995  -94.414175   -1.575225
-0.001117   -0.167788   -78.154243
1.00000   -1.131995  -94.414175   -1.575225
-0.001117   -0.659791   -65.231496

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
              T          M2          M3
0.43661   11.452105   60.926777    1.241490
0.002997    1.371835  167.234442
0.57745   11.452105   60.926777    1.241490
0.002997    0.851569  145.550173
0.71830   11.452105   60.926777    1.241490
0.002997    0.339854  131.002668
0.85915   11.452105   60.926777    1.241490
0.002997    0.281383  129.305376
1.00000   11.452105   60.926777    1.241490
0.002997    0.932894  133.958670

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
              T          M2          M3
0.43661   -5.381733 -109.202764   -1.655065
-0.003380   -1.839689   -159.010332
0.57745   -5.381733 -109.202764   -1.655065
-0.003380   -1.147790   -118.458610
0.71830   -5.381733 -109.202764   -1.655065
-0.003380   -0.460332   -87.688540
0.85915   -5.381733 -109.202764   -1.655065
```

```
-0.003380   -0.190345   -70.916371
 1.00000    -5.381733  -109.202764     -1.655065
-0.003380   -0.710752   -58.112368

COMB       DB ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43661   12.113039   104.644744    0.889845
 0.007726    0.972880   194.947962
0.57745   12.113039   104.644744    0.889845
 0.007726    0.600270   162.600512
0.71830   12.113039   104.644744    0.889845
 0.007726    0.238983   139.075605
0.85915   12.113039   104.644744    0.889845
 0.007726    0.173736   127.522265
 1.00000   12.113039   104.644744    0.889845
 0.007726    0.654019   136.572452

COMB       DB ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43661  -13.069638  -136.839072    -1.149185
-0.006303   -1.274110  -161.633101
0.57745  -13.069638  -136.839072    -1.149185
-0.006303   -0.795189  -121.246361
0.71830  -13.069638  -136.839072    -1.149185
-0.006303   -0.322692   -96.414413
0.85915  -13.069638  -136.839072    -1.149185
-0.006303   -0.147992   -80.008676
 1.00000  -13.069638  -136.839072    -1.149185
-0.006303   -0.710612   -64.210598
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2330

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43661   11.452105   100.372219    1.241490
 0.007584    1.371835   195.418271
0.57745   11.452105   100.372219    1.241490
 0.007584    0.851569   165.535205
0.71830   11.452105   100.372219    1.241490
 0.007584    0.339854   143.609265
0.85915   11.452105   100.372219    1.241490
 0.007584    0.247151   136.530547
 1.00000   11.452105   100.372219    1.241490
 0.007584    0.946552   140.658661

COMB       DL ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43661  -12.261325  -122.518167    -1.667755
-0.006277   -1.848766  -167.529584
0.57745  -12.261325  -122.518167    -1.667755
-0.006277   -1.152925  -130.302157
0.71830  -12.261325  -122.518167    -1.667755
-0.006277   -0.463319  -108.909434
0.85915  -12.261325  -122.518167    -1.667755
-0.006277   -0.191598   -90.365138
 1.00000  -12.261325  -122.518167    -1.667755
-0.006277   -0.710752   -72.619500

COMB       CAR ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43661   12.113039   104.644744    1.241490
 0.007726    1.371835   195.418271
0.57745   12.113039   104.644744    1.241490
 0.007726    0.851569   165.535205
0.71830   12.113039   104.644744    1.241490
 0.007726    0.339854   143.609265
0.85915   12.113039   104.644744    1.241490
 0.007726    0.247151   136.530547
 1.00000   12.113039   104.644744    1.241490
 0.007726    0.946552   140.658661

COMB       CAR ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43661  -13.069638  -136.839072    -1.667755
-0.006303   -1.848766  -167.529584
0.57745  -13.069638  -136.839072    -1.667755
-0.006303   -1.152925  -130.302157
0.71830  -13.069638  -136.839072    -1.667755
-0.006303   -0.463319  -108.909434
0.85915  -13.069638  -136.839072    -1.667755
-0.006303   -0.191598   -90.365138
 1.00000  -13.069638  -136.839072    -1.667755
-0.006303   -0.710752   -72.619500

COMB      DESIGN ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43661   12.113039   104.644744    1.241490
 0.007726    1.371835   195.418271
0.57745   12.113039   104.644744    1.241490
 0.007726    0.851569   165.535205
0.71830   12.113039   104.644744    1.241490
 0.007726    0.339854   143.609265
0.85915   12.113039   104.644744    1.241490
 0.007726    0.247151   136.530547
 1.00000   12.113039   104.644744    1.241490
 0.007726    0.946552   140.658661

COMB      DESIGN ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43661  -13.069638  -136.839072    -1.667755
-0.006303   -1.848766  -167.529584
0.57745  -13.069638  -136.839072    -1.667755
-0.006303   -1.152925  -130.302157
0.71830  -13.069638  -136.839072    -1.667755
-0.006303   -0.463319  -108.909434
0.85915  -13.069638  -136.839072    -1.667755
-0.006303   -0.191598   -90.365138
 1.00000  -13.069638  -136.839072    -1.667755
-0.006303   -0.710752   -72.619500
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2331

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       209 ================== LENGTH
=     2.977568

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.541596    72.682623    0.433262
 0.001106    0.236982    2.657026
0.14085    0.541596    72.682623    0.433262
 0.001106    0.055268    3.019290
0.28170    0.541596    72.682623    0.433262
 0.001106    0.148375    4.477957
0.42255    0.541596    72.682623    0.433262
 0.001106    0.370023    8.053244
0.56340    0.541596    72.682623    0.433262
 0.001106    0.591686   11.900481

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -10.288238    -9.500540    -0.528545
-7.30E-06   -0.294984   -23.764164
0.14085   -10.288238    -9.500540    -0.528545
-7.30E-06   -0.073285   -53.804743
0.28170   -10.288238    -9.500540    -0.528545
-7.30E-06   -0.126595   -84.207355
0.42255   -10.288238    -9.500540    -0.528545
-7.30E-06   -0.308144  -114.617973
0.56340   -10.288238    -9.500540    -0.528545
-7.30E-06   -0.489848  -145.056916

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.331669   169.617561    0.587900
 0.007709    0.349360   122.854365
0.14085    2.331669   169.617561    0.587900
 0.007709    0.103865    97.833332
0.28170    2.331669   169.617561    0.587900
 0.007709    0.205810    74.943862
0.42255    2.331669   169.617561    0.587900
 0.007709    0.500220    71.073752
0.56340    2.331669   169.617561    0.587900
 0.007709    0.807531    81.008753

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -17.196392  -32.123996    -0.744141
-0.006143   -0.440981   -12.012202
0.14085  -17.196392  -32.123996    -0.744141
-0.006143   -0.130033   -50.272149
0.28170  -17.196392  -32.123996    -0.744141
-0.006143   -0.168064   -88.976341
0.42255  -17.196392  -32.123996    -0.744141
-0.006143   -0.395781  -129.972332
0.56340  -17.196392  -32.123996    -0.744141
-0.006143   -0.638177  -192.537645

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    6.738612   138.359780    0.702610
 0.005649    0.407030   120.865447
0.14085    6.738612   138.359780    0.702610
 0.005649    0.112971   127.255187
0.28170    6.738612   138.359780    0.702610
 0.005649    0.273127   135.785096
0.42255    6.738612   138.359780    0.702610
 0.005649    0.674667   157.608031
0.56340    6.738612   138.359780    0.702610
 0.005649    1.084989   188.855966

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -14.865302   -80.429053    -0.986128
-0.004324   -0.569514   -11.541151
0.14085  -14.865302   -80.429053    -0.986128
-0.004324   -0.156702   -47.450049
0.28170  -14.865302   -80.429053    -0.986128
-0.004324   -0.198947   -83.615716
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2332

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.42255  -14.865302   -80.429053    -0.986128
-0.004324   -0.480740  -121.279086
0.56340  -14.865302   -80.429053    -0.986128
-0.004324   -0.772549  -173.578059

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.657221   118.889147    0.832287
 0.004743    0.476837   103.290414
0.14085    8.657221   118.889147    0.832287
 0.004743    0.128271   107.370053
0.28170    8.657221   118.889147    0.832287
 0.004743    0.329232   116.215505
0.42255    8.657221   118.889147    0.832287
 0.004743    0.817221   136.933391
0.56340    8.657221   118.889147    0.832287
 0.004743    1.312500   167.593612

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.903319   -83.668555    -1.187379
-0.004126   -0.167761   -47.450770
0.14085  -12.903319   -83.668555    -1.187379
-0.004126   -0.182226   -57.098733
0.28170  -12.903319   -83.668555    -1.187379
-0.004126   -0.235080   -81.466450
0.42255  -12.903319   -83.668555    -1.187379
-0.004126   -0.573462  -108.515238
0.56340  -12.903319   -83.668555    -1.187379
-0.004126   -0.920148  -148.854700

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    3.684482    64.619682    0.141116
 0.005308    0.102611   132.376403
0.14085    3.684482    64.619682    0.141116
 0.005308    0.044119   124.761685
0.28170    3.684482    64.619682    0.141116
 0.005308    0.068143   117.291077
0.42255    3.684482    64.619682    0.141116
 0.005308    0.189389   124.592940
0.56340    3.684482    64.619682    0.141116
 0.005308    0.263456   143.330673

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -4.316321   -50.909968    -0.255283
-0.005137   -0.164936   -2.248094
0.14085   -4.316321   -50.909968    -0.255283
-0.005137   -0.058855   -1.658393
0.28170   -4.316321   -50.909968    -0.255283
-0.005137   -0.036171   -1.347528
0.42255   -4.316321   -50.909968    -0.255283
-0.005137   -0.079563   -2.916518
0.56340   -4.316321   -50.909968    -0.255283
-0.005137   -0.135246   -22.506107

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.435435   61.355432    0.394756
 0.005163    0.243175   136.842754
0.14085    8.435435   61.355432    0.394756
 0.005163    0.078259   143.226490
0.28170    8.435435   61.355432    0.394756
 0.005163    0.179406   153.265745
0.42255    8.435435   61.355432    0.394756
 0.005163    0.441522   177.462010
0.56340    8.435435   61.355432    0.394756
 0.005163    0.713686   212.603714

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -4.655571   -90.349915    -0.657823
-0.005205   -0.390052   -12.824972
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2333

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.14085   -4.655571   -90.349915    -0.657823
-0.005205   -0.115103    -9.183033
0.28170   -4.655571   -90.349915    -0.657823
-0.005205   -0.106957    -6.422190
0.42255   -4.655571   -90.349915    -0.657823
-0.005205   -0.257809    -7.347201
0.56340   -4.655571   -90.349915    -0.657823
-0.005205   -0.420100   -26.400439

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.076855   119.474342    0.640880
 0.004630    0.370559   131.763296
0.14085    8.076855   119.474342    0.640880
 0.004630    0.102832   123.951301
0.28170    8.076855   119.474342    0.640880
 0.004630    0.258875   137.014713
0.42255    8.076855   119.474342    0.640880
 0.004630    0.640924   162.846060
0.56340    8.076855   119.474342    0.640880
 0.004630    1.030057   196.940894

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -11.631744   -87.208129    -0.934133
-0.003882   -0.537162   -15.901219
0.14085   -11.631744   -87.208129    -0.934133
-0.003882   -0.146066   -17.978984
0.28170   -11.631744   -87.208129    -0.934133
-0.003882   -0.180136   -47.152616
0.42255   -11.631744   -87.208129    -0.934133
-0.003882   -0.438514   -79.325801
0.56340   -11.631744   -87.208129    -0.934133
-0.003882   -0.704977  -124.642789

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.676636   104.328238    0.795061
 0.003864    0.454733   113.642717
0.14085    9.676636   104.328238    0.795061
 0.003864    0.121857   105.535320
0.28170    9.676636   104.328238    0.795061
 0.003864    0.323847   114.559273
0.42255    9.676636   104.328238    0.795061
 0.003864    0.804855   135.432672
0.56340    9.676636   104.328238    0.795061
 0.003864    1.291797   163.712404

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -9.948289   -85.108550    -1.166329
-0.003776   -0.664942   -41.645305
0.14085   -9.948289   -85.108550    -1.166329
-0.003776   -0.376335   -38.411184
0.28170   -9.948289   -85.108550    -1.166329
-0.003776   -0.223503   -57.646133
0.42255   -9.948289   -85.108550    -1.166329
-0.003776   -0.548194   -79.092656
0.56340   -9.948289   -85.108550    -1.166329
-0.003776   -0.879697  -111.346759

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    4.655894    7.944438    0.407930
 1.61E-05    0.227529    7.907257
0.14085    4.655894    7.944438    0.407930
 1.61E-05    0.056423    4.940699
0.28170    4.655894    7.944438    0.407930
 1.61E-05    0.169446    2.489312
0.42255    4.655894    7.944438    0.407930
 1.61E-05    0.424190    2.250578
0.56340    4.655894    7.944438    0.407930
 1.61E-05    0.678943    2.373085
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2334

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -0.316171   -17.757159    -0.607457
-0.000836   -0.340103   -46.258351
0.14085   -0.316171   -17.757159    -0.607457
-0.000836   -0.085341   -39.311995
0.28170   -0.316171   -17.757159    -0.607457
-0.000836   -0.114662   -32.522518
0.42255   -0.316171   -17.757159    -0.607457
-0.000836   -0.285723   -25.795396
0.56340   -0.316171   -17.757159    -0.607457
-0.000836   -0.456802   -19.095813

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.546662   13.364966    0.672202
 0.000372    0.376061   15.031505
0.14085    8.546662   13.364966    0.672202
 0.000372    0.094117   13.405922
0.28170    8.546662   13.364966    0.672202
 0.000372    0.278977   17.583312
0.42255    8.546662   13.364966    0.672202
 0.000372    0.699259   25.484836
0.56340    8.546662   13.364966    0.672202
 0.000372    1.119957   34.613587

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -1.233279   -43.866138    -1.003480
-0.001632   -0.563455   -64.234355
0.14085   -1.233279   -43.866138    -1.003480
-0.001632   -0.142628   -51.674878
0.28170   -1.233279   -43.866138    -1.003480
-0.001632   -0.188532   -40.081589
0.42255   -1.233279   -43.866138    -1.003480
-0.001632   -0.469840   -30.998742
0.56340   -1.233279   -43.866138    -1.003480
-0.001632   -0.751628   -24.339318

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.913620   14.065684    0.724487
 0.000523    0.407343   65.570532
0.14085   11.913620   14.065684    0.724487
 0.000523    0.103471   89.342545
0.28170   11.913620   14.065684    0.724487
 0.000523    0.319552   116.674086
0.42255   11.913620   14.065684    0.724487
 0.000523    0.801603   147.767927
0.56340   11.913620   14.065684    0.724487
 0.000523    1.284302   180.101141

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -1.246074   -97.317669    -1.151534
-0.001535   -0.647514   -57.901464
0.14085   -1.246074   -97.317669    -1.151534
-0.001535   -0.164677   -47.677819
0.28170   -1.246074   -97.317669    -1.151534
-0.001535   -0.201594   -38.040616
0.42255   -1.246074   -97.317669    -1.151534
-0.001535   -0.504472   -30.180034
0.56340   -1.246074   -97.317669    -1.151534
-0.001535   -0.808102   -24.604162

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   10.737017   95.073753    0.788022
 0.004150    0.454288   128.081495
0.14085   10.737017   95.073753    0.788022
 0.004150    0.124184   116.254129
0.28170   10.737017   95.073753    0.788022
 0.004150    0.327509   119.687612
0.42255   10.737017   95.073753    0.788022
 0.004150    0.813143   136.777705
0.56340   10.737017   95.073753    0.788022
 0.004150    1.305824   163.712265
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2335

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -7.978905   -86.022647    -1.180972
-0.004443   -0.675464   -50.979063
0.14085   -7.978905   -86.022647    -1.180972
-0.004443   -0.180829   -41.023193
0.28170   -7.978905   -86.022647    -1.180972
-0.004443   -0.220132   -47.642334
0.42255   -7.978905   -86.022647    -1.180972
-0.004443   -0.540210   -61.066561
0.56340   -7.978905   -86.022647    -1.180972
-0.004443   -0.868411   -87.197565

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.547904   70.789551    0.523346
 0.001046    0.291066    3.160505
0.14085    0.547904   70.789551    0.523346
 0.001046    0.071263    3.389823
0.28170    0.547904   70.789551    0.523346
 0.001046    0.204525    4.471257
0.42255    0.547904   70.789551    0.523346
 0.001046    0.513082    8.708708
0.56340    0.547904   70.789551    0.523346
 0.001046    0.821555   13.405980

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -9.934036   -12.061416    -0.735316
-4.31E-06   -0.411718   -34.103151
0.14085   -9.934036   -12.061416    -0.735316
-4.31E-06   -0.102834   -60.094646
0.28170   -9.934036   -12.061416    -0.735316
-4.31E-06   -0.146439   -86.455966
0.42255   -9.934036   -12.061416    -0.735316
-4.31E-06   -0.366582  -115.232339
0.56340   -9.934036   -12.061416    -0.735316
-4.31E-06   -0.586261  -144.500580

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.448719   162.790576    0.761858
 0.007638    0.455492   130.737991
0.14085    2.448719   162.790576    0.761858
 0.007638    0.135577   104.631200
0.28170    2.448719   162.790576    0.761858
 0.007638    0.291397   80.273393
0.42255    2.448719   162.790576    0.761858
 0.007638    0.716155   75.772142
0.56340    2.448719   162.790576    0.761858
 0.007638    1.154474   85.802857

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -16.160894   -33.599471    -1.058127
-0.006187   -0.620739   -24.285194
0.14085  -16.160894   -33.599471    -1.058127
-0.006187   -0.177232   -55.702181
0.28170  -16.160894   -33.599471    -1.058127
-0.006187   -0.207531   -88.185145
0.42255  -16.160894   -33.599471    -1.058127
-0.006187   -0.504513  -125.868784
0.56340  -16.160894   -33.599471    -1.058127
-0.006187   -0.822190  -190.369713

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    6.195115   134.695672    0.976357
 0.005783    0.568114   134.721250
0.14085    6.195115   134.695672    0.976357
 0.005783    0.158072   136.319189
0.28170    6.195115   134.695672    0.976357
 0.005783    0.388150   139.738482
0.42255    6.195115   134.695672    0.976357
 0.005783    0.965020   157.782520
0.56340    6.195115   134.695672    0.976357
 0.005783    1.551517   186.328197
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2336

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -14.025012   -75.345887    -1.406827
-0.004556   -0.806624   -22.600814
0.14085  -14.025012   -75.345887    -1.406827
-0.004556   -0.216614   -52.100111
0.28170  -14.025012   -75.345887    -1.406827
-0.004556   -0.267939   -82.491024
0.42255  -14.025012   -75.345887    -1.406827
-0.004556   -0.661222  -117.049544
0.56340  -14.025012   -75.345887    -1.406827
-0.004556   -1.069566  -170.735178

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.888492   116.752380    1.189038
 0.004846    0.682920   116.004001
0.14085    7.888492   116.752380    1.189038
 0.004846    0.183640   115.795415
0.28170    7.888492   116.752380    1.189038
 0.004846    0.466082   119.443495
0.42255    7.888492   116.752380    1.189038
 0.004846    1.161749   137.039471
0.56340    7.888492   116.752380    1.189038
 0.004846    1.865301   165.773638

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.257558   -81.441788    -1.684487
-0.004245   -0.958398   -43.928025
0.14085  -12.257558   -81.441788    -1.684487
-0.004245   -0.252014   -61.627155
0.28170  -12.257558   -81.441788    -1.684487
-0.004245   -0.328638   -81.263677
0.42255  -12.257558   -81.441788    -1.684487
```

```
-0.004245   -0.813885  -105.875168
 0.56340   -12.257558   -81.441788    -1.684487
-0.004245   -1.311590  -148.289227

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    3.744659    54.152935    0.236261
 0.004500    0.155316   132.373547
 0.14085    3.744659    54.152935    0.236261
 0.004500    0.056292   127.897249
 0.28170    3.744659    54.152935    0.236261
 0.004500    0.096078   123.578717
 0.42255    3.744659    54.152935    0.236261
 0.004500    0.230858   131.184802
 0.56340    3.744659    54.152935    0.236261
 0.004500    0.375156   148.638233

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -3.563249   -48.250357   -0.353409
-0.004335   -0.217728    -2.737357
 0.14085   -3.563249   -48.250357   -0.353409
-0.004335   -0.070019    -1.812005
 0.28170   -3.563249   -48.250357   -0.353409
-0.004335   -0.060825    -1.187062
 0.42255   -3.563249   -48.250357   -0.353409
-0.004335   -0.143538    -2.518054
 0.56340   -3.563249   -48.250357   -0.353409
-0.004335   -0.241342   -22.420548

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.613857    53.405967    0.635387
 0.004505    0.378201   140.657737
 0.14085    7.613857    53.405967    0.635387
 0.004505    0.112262   147.632134
 0.28170    7.613857    53.405967    0.635387
 0.004505    0.258097   158.072949
 0.42255    7.613857    53.405967    0.635387
 0.004505    0.641051   180.660419
 0.56340    7.613857    53.405967    0.635387
 0.004505    1.032750   212.905128
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2337

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -4.014611   -83.619850   -0.942244
-0.004515   -0.545868   -12.514234
 0.14085   -4.014611   -83.619850   -0.942244
-0.004515   -0.151288    -8.700969
 0.28170   -4.014611   -83.619850   -0.942244
-0.004515   -0.172281    -6.838679
 0.42255   -4.014611   -83.619850   -0.942244
-0.004515   -0.422934    -7.517992
 0.56340   -4.014611   -83.619850   -0.942244
-0.004515   -0.688287   -26.766095

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.455205   108.264520    0.921979
 0.003834    0.529790   137.133310
 0.14085    7.455205   108.264520    0.921979
 0.003834    0.143426   127.493892
 0.28170    7.455205   108.264520    0.921979
 0.003834    0.369117   140.428321
 0.42255    7.455205   108.264520    0.921979
 0.003834    0.919447   165.529958
 0.56340    7.455205   108.264520    0.921979
 0.003834    1.475687   197.717947

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -10.238842   -82.856231   -1.331181
-0.003150   -0.755201    -17.354965
 0.14085   -10.238842   -82.856231   -1.331181
-0.003150   -0.197457    -17.063678
 0.28170   -10.238842   -82.856231   -1.331181
-0.003150   -0.254354    -42.095432
 0.42255   -10.238842   -82.856231   -1.331181
-0.003150   -0.711850    -71.998550
 0.56340   -10.238842   -82.856231   -1.331181
-0.003150   -1.016995   -114.563304

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.111297    96.499901    1.184285
 0.003201    0.673699   120.749446
 0.14085    9.111297    96.499901    1.184285
 0.003201    0.176848   110.102073
 0.28170    9.111297    96.499901    1.184285
 0.003201    0.460205   117.877017
 0.42255    9.111297    96.499901    1.184285
 0.003201    1.148870   137.688613
 0.56340    9.111297    96.499901    1.184285
 0.003201    1.842726   164.404556

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.850326   -84.589486   -1.657355
-0.003119   -0.935143    -46.796288
 0.14085   -8.850326   -84.589486   -1.657355
-0.003119   -0.240404    -40.342581
 0.28170   -8.850326   -84.589486   -1.657355
-0.003119   -0.328925    -54.630597
 0.42255   -8.850326   -84.589486   -1.657355
-0.003119   -0.817084    -74.356745
 0.56340   -8.850326   -84.589486   -1.657355
-0.003119   -1.313264   -105.316236

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    4.766396    10.519257    0.659768
 1.18E-05    0.367887    11.703814
 0.14085    4.766396    10.519257    0.659768
 1.18E-05    0.091391     7.640592
 0.28170    4.766396    10.519257    0.659768
 1.18E-05    0.237590     3.882541
 0.42255    4.766396    10.519257    0.659768
 1.18E-05    0.595767     2.788543
 0.56340    4.766396    10.519257    0.659768
 1.18E-05    0.952824     3.082747
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2338

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -0.371090   -21.905427   -0.852120
-0.000792   -0.474558    -53.971876
 0.14085   -0.371090   -21.905427   -0.852120
-0.000792   -0.117300    -45.215196
 0.28170   -0.371090   -21.905427   -0.852120
-0.000792   -0.185498    -36.580040
 0.42255   -0.371090   -21.905427   -0.852120
-0.000792   -0.462310   -29.956604
 0.56340   -0.371090   -21.905427   -0.852120
-0.000792   -0.738934   -24.570798

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.151255    15.922152    1.067555
 0.000289    0.596506    18.603442
 0.14085    8.151255    15.922152    1.067555
 0.000289    0.191118    16.403554
 0.28170    8.151255    15.922152    1.067555
 0.000289    0.397247    19.418787
 0.42255    8.151255    15.922152    1.067555
 0.000289    0.997486    27.277773
 0.56340    8.151255    15.922152    1.067555
 0.000289    1.596706    37.178449

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -1.356287   -49.443641   -1.429264
-0.001428   -0.798202    -72.662956
 0.14085   -1.356287   -49.443641   -1.429264
-0.001428   -0.198846    -57.301659
 0.28170   -1.356287   -49.443641   -1.429264
-0.001428   -0.299454    -44.875798
 0.42255   -1.356287   -49.443641   -1.429264
-0.001428   -0.746725    -36.087355
 0.56340   -1.356287   -49.443641   -1.429264
-0.001428   -1.194436   -30.328643

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    11.197393    13.568835    1.161362
 0.000198    0.650350    74.986947
 0.14085    11.197393    13.568835    1.161362
 0.000198    0.163578    96.196414
 0.28170    11.197393    13.568835    1.161362
 0.000198    0.448582   120.943622
 0.42255    11.197393    13.568835    1.161362
 0.000198    1.127948   149.555369
 0.56340    11.197393    13.568835    1.161362
 0.000198    1.805183   179.669644

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -1.104310   -95.709959   -1.615949
-0.001134   -0.901301    -65.252008
 0.14085   -1.104310   -95.709959   -1.615949
-0.001134   -0.223656    -52.630202
 0.28170   -1.104310   -95.709959   -1.615949
-0.001134   -0.324115    -41.824163
 0.42255   -1.104310   -95.709959   -1.615949
-0.001134   -0.811052    -34.104293
 0.56340   -1.104310   -95.709959   -1.615949
-0.001134   -1.298160    -28.404718

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    10.291519    85.567842    1.217000
 0.003193    0.693161   133.942665
 0.14085    10.291519    85.567842    1.217000
 0.003193    0.183253   122.591548
 0.28170    10.291519    85.567842    1.217000
 0.003193    0.465892   125.435075
 0.42255    10.291519    85.567842    1.217000
 0.003193    1.163182   142.746681
 0.56340    10.291519    85.567842    1.217000
 0.003193    1.864469   168.282592
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2339

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.883705   -86.533148   -1.677915
-0.003478   -0.946730    -58.116556
 0.14085   -6.883705   -86.533148   -1.677915
-0.003478   -0.243482    -45.746381
 0.28170   -6.883705   -86.533148   -1.677915
-0.003478   -0.337704    -48.123356
 0.42255   -6.883705   -86.533148   -1.677915
-0.003478   -0.833807    -50.501301
 0.56340   -6.883705   -86.533148   -1.677915
-0.003478   -1.348534    -84.108731

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    11.913620    169.617561    0.832287
 0.007709    0.476837    136.842754
 0.14085    11.913620    169.617561    0.832287
 0.007709    0.128271    143.226490
 0.28170    11.913620    169.617561    0.832287
 0.007709    0.329232    153.265745
 0.42255    11.913620    169.617561    0.832287
 0.007709    0.817221    177.462010
 0.56340    11.913620    169.617561    0.832287
 0.007709    1.312500    212.603714

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -17.196392   -97.317669   -1.187379
-0.006143   -0.679561    -64.234355
 0.14085   -17.196392   -97.317669   -1.187379
-0.006143   -0.182226    -57.098733
 0.28170   -17.196392   -97.317669   -1.187379
-0.006143   -0.235080    -88.976341
 0.42255   -17.196392   -97.317669   -1.187379
-0.006143   -0.573462    -129.972332
 0.56340   -17.196392   -97.317669   -1.187379
-0.006143   -0.920148   -192.537645

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    11.197393    162.790576    1.217000
 0.007638    0.693161    140.657737
 0.14085    11.197393    162.790576    1.217000
 0.007638    0.183640    147.632134
 0.28170    11.197393    162.790576    1.217000
 0.007638    0.466082    158.072949
 0.42255    11.197393    162.790576    1.217000
 0.007638    1.163182    180.660419
 0.56340    11.197393    162.790576    1.217000
 0.007638    1.865301    212.905128

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -16.160894   -95.709959   -1.684487
-0.006187   -0.958398    -72.662956
 0.14085   -16.160894   -95.709959   -1.684487
-0.006187   -0.252014    -61.627155
 0.28170   -16.160894   -95.709959   -1.684487
-0.006187   -0.337704    -88.185145
 0.42255   -16.160894   -95.709959   -1.684487
-0.006187   -0.838807   -125.866784
 0.56340   -16.160894   -95.709959   -1.684487
-0.006187   -1.348534   -190.369713

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    11.913620    169.617561    1.217000
 0.007709    0.693161    140.657737
 0.14085    11.913620    169.617561    1.217000
 0.007709    0.183640    147.632134
 0.28170    11.913620    169.617561    1.217000
 0.007709    0.466082    158.072949
 0.42255    11.913620    169.617561    1.217000
 0.007709    1.163182    180.660419
 0.56340    11.913620    169.617561    1.217000
 0.007709    1.863301    212.905128
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2340

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -17.196392   -97.317669   -1.684487
-0.006187   -0.958398    -72.662956
 0.14085   -17.196392   -97.317669   -1.684487
-0.006187   -0.252014    -61.627155
 0.28170   -17.196392   -97.317669   -1.684487
-0.006187   -0.337704    -88.976341
 0.42255   -17.196392   -97.317669   -1.684487
-0.006187   -0.838807   -129.972332
 0.56340   -17.196392   -97.317669   -1.684487
-0.006187   -1.348534   -192.537645

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    11.913620    169.617561    1.217000
 0.007709    0.693161    140.657737
 0.14085    11.913620    169.617561    1.217000
 0.007709    0.183640    147.632134
 0.28170    11.913620    169.617561    1.217000
 0.007709    0.466082    158.072949
 0.42255    11.913620    169.617561    1.217000
 0.007709    1.163182    180.660419
 0.56340    11.913620    169.617561    1.217000
 0.007709    1.865301    212.905128

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -17.196392   -97.317669   -1.684487
-0.006187   -0.958398    -72.662956
 0.14085   -17.196392   -97.317669   -1.684487
-0.006187   -0.252014    -61.627155
 0.28170   -17.196392   -97.317669   -1.684487
-0.006187   -0.337704    -88.976341
 0.42255   -17.196392   -97.317669   -1.684487
-0.006187   -0.838807   -129.972332
 0.56340   -17.196392   -97.317669   -1.684487
-0.006187   -1.348534   -192.537645

ELEM     210 ================== LENGTH
=    2.977386

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43662    0.166349    76.129219    0.594303
 0.000920    0.065218    -05.327639
 0.57747    0.166349    76.129219    0.594303
 0.000920    0.409997    73.468520
 0.71831    0.166349    76.129219    0.594303
 0.000920    0.160830    41.700877
 0.85916    0.166349    76.129219    0.594303
 0.000920    0.082097    10.248104
 1.00000    0.166349    76.129219    0.594303
 0.000920    0.325384    2.585208

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43662   -11.014436   -5.481601   -0.580139
-0.000504   -0.647738   -11.836807
 0.57747   -11.014436   -5.481601   -0.580139
-0.000504   -0.404458    -9.715724
 0.71831   -11.014436   -5.481601   -0.580139
-0.000504   -0.161161    -7.951039
 0.85916   -11.014436   -5.481601   -0.580139
-0.000504   -0.088774    -6.382478
 1.00000   -11.014436   -5.481601   -0.580139
-0.000504   -0.337825   -23.555937

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43662    4.504349    107.944579    0.823432
 0.007314    0.890190    200.726189
 0.57747    4.504349    107.944579    0.823432
 0.007314    0.545068    160.605701
 0.71831    4.504349    107.944579    0.823432
 0.007314    0.201053    133.235973
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2341

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
 0.85916    4.504349    107.944579    0.823432
 0.007314    0.131349    123.022148
 1.00000    4.504349    107.944579    0.823432
 0.007314    0.440790    125.842938

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43662   -13.875557   -88.114347   -0.778330
-0.006819   -0.868070    -37.634183
 0.57747   -13.875557   -88.114347   -0.778330
-0.006819   -0.541660    -16.113719
 0.71831   -13.875557   -88.114347   -0.778330
-0.006819   -0.215250    -11.765651
 0.85916   -13.875557   -88.114347   -0.778330
-0.006819   -0.148438    -9.264349
 1.00000   -13.875557   -88.114347   -0.778330
-0.006819   -0.492409    -10.650564

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43662    8.037342    97.115209    0.855528
 0.005482    0.934352   188.269880
 0.57747    8.037342    97.115209    0.855528
 0.005482    0.575721   152.606986
 0.71831    8.037342    97.115209    0.855528
 0.005482    0.231462   126.379598
 0.85916    8.037342    97.115209    0.855528
 0.005482    0.131486   114.570844
 1.00000    8.037342    97.115209    0.855528
 0.005482    0.476598   126.139120

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43662   -12.748614   -117.067385   -0.851306
-0.005164   -0.953857    -81.835313
 0.57747   -12.748614   -117.067385   -0.851306
-0.005164   -0.596865    -42.403025
 0.71831   -12.748614   -117.067385   -0.851306
-0.005164   -0.240132    -13.723425
 0.85916   -12.748614   -117.067385   -0.851306
-0.005164   -0.143763    -9.491180
 1.00000   -12.748614   -117.067385   -0.851306
-0.005164   -0.501687    -9.484691

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43662    9.967378    82.813394    0.922883
 0.004598    1.011689   162.050621
 0.57747    9.967378    82.813394    0.922883
 0.004598    0.624790   131.534170
 0.71831    9.967378    82.813394    0.922883
 0.004598    0.249829   106.849351
 0.85916    9.967378    82.813394    0.922883
 0.004598    0.143728    98.190099
 1.00000    9.967378    82.813394    0.922883
 0.004598    0.527185   106.936457

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43662   -11.284680   -114.985917   -0.940551
-0.004509   -1.053356   -119.763555
 0.57747   -11.284680   -114.985917   -0.940551
-0.004509   -0.658986    -79.978290
 0.71831   -11.284680   -114.985917   -0.940551
-0.004509   -0.264968    -49.644433
 0.85916   -11.284680   -114.985917   -0.940551
-0.004509   -0.150774    -39.649034
 1.00000   -11.284680   -114.985917   -0.940551
-0.004509   -0.537164    -32.885426

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43662    5.806482    9.218482    0.154775
 0.005538    0.152518   50.802734
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2342

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
 0.57747    5.806482    9.218482    0.154775
 0.005538    0.087755   52.334746
 0.71831    5.806482    9.218482    0.154775
 0.005538    0.040609   65.288301
 0.85916    5.806482    9.218482    0.154775
 0.005538    0.037657   95.663641
 1.00000    5.806482    9.218482    0.154775
 0.005538    0.088497   136.955310

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43662   -0.764713   -101.245897   -0.155420
-0.005530   -0.175011    -41.189123
 0.57747   -0.764713   -101.245897   -0.155420
-0.005530   -0.109861    -11.824224
 0.71831   -0.764713   -101.245897   -0.155420
-0.005530   -0.044799    -2.960932
 0.85916   -0.764713   -101.245897   -0.155420
-0.005530   -0.043876    -2.348177
 1.00000   -0.764713   -101.245897   -0.155420
-0.005530   -0.108090    -1.751695

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43662    10.479468    8.879987    0.357293
 0.005359    0.379290    51.904827
 0.57747    10.479468    8.879987    0.357293
 0.005359    0.229596    53.912205
 0.71831    10.479468    8.879987    0.357293
 0.005359    0.096346    66.669272
 0.85916    10.479468    8.879987    0.357293
 0.005359    0.065824    95.862168
 1.00000    10.479468    8.879987    0.357293
 0.005359    0.207044    142.755126

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43662   -1.481874   -137.349836   -0.371679
-0.005525   -0.420079   -101.322279
 0.57747   -1.481874   -137.349836   -0.371679
-0.005525   -0.264238    -55.097723
 0.71831   -1.481874   -137.349836   -0.371679
-0.005525   -0.108739    -21.980948
 0.85916   -1.481874   -137.349836   -0.371679
-0.005525   -0.073184    -15.759089
 1.00000   -1.481874   -137.349836   -0.371679
-0.005525   -0.221021    -11.551479

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43662    9.604492    85.298929    0.724737
 0.004420    0.792517   197.797562
 0.57747    9.604492    85.298929    0.724737
 0.004420    0.488730   166.541414
 0.71831    9.604492    85.298929    0.724737
 0.004420    0.196612   143.186574
 0.85916    9.604492    85.298929    0.724737
 0.004420    0.113049   132.500464
 1.00000    9.604492    85.298929    0.724737
 0.004420    0.409186   138.409144

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43662   -9.960310   -117.521674   -0.731422
-0.004293   -0.820527    -97.394642
 0.57747   -9.960310   -117.521674   -0.731422
-0.004293   -0.513827    -56.241607
 0.71831   -9.960310   -117.521674   -0.731422
-0.004293   -0.207411    -25.143237
 0.85916   -9.960310   -117.521674   -0.731422
-0.004293   -0.120504    -18.525004
 1.00000   -9.960310   -117.521674   -0.731422
-0.004293   -0.423846    -13.585918
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2343

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43662    11.276031    73.550623    0.825598
 0.003694    0.906615   171.821834
 0.57747    11.276031    73.550623    0.825598
 0.003694    0.560512   144.750885
 0.71831    11.276031    73.550623    0.825598
 0.003694    0.224183   124.295509
 0.85916    11.276031    73.550623    0.825598
 0.003694    0.132176   114.396140
 1.00000    11.276031    73.550623    0.825598
 0.003694    0.487428   118.354923

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43662   -8.480113   -111.652876   -0.868959
-0.003773   -0.972711   -134.792086
 0.57747   -8.480113   -111.652876   -0.868959
-0.003773   -0.608374    -94.885094
 0.71831   -8.480113   -111.652876   -0.868959
-0.003773   -0.244407    -63.106109
 0.85916   -8.480113   -111.652876   -0.868959
```

```
-0.003773   -0.132997   -51.926363
 1.00000    -8.480113  -111.652876    -0.868959
-0.003773   -0.478816   -42.299589

COMB DB-G3-1 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    5.220392    4.359368    0.346462
1.15E-05   0.385095   12.603137
0.57747    5.220392    4.359368    0.346462
1.15E-05   0.239308   10.783395
0.71831    5.220392    4.359368    0.346462
1.15E-05   0.094529    8.976638
0.85916    5.220392    4.359368    0.346462
1.15E-05   0.060473    7.208779
1.00000    5.220392    4.359368    0.346462
1.15E-05   0.233052    5.520896

COMB DB-G3-1 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -0.113848  -19.482669    -0.412945
-0.000264  -0.459981   -83.459349
0.57747   -0.113848  -19.482669    -0.412945
-0.000264  -0.286934   -75.351612
0.71831   -0.113848  -19.482669    -0.412945
-0.000264  -0.114107   -67.285680
0.85916   -0.113848  -19.482669    -0.412945
-0.000264  -0.050702   -59.220370
1.00000   -0.113848  -19.482669    -0.412945
-0.000264  -0.196057   -51.179721

COMB DB-G3-2 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    9.365404    6.009093    0.572695
0.000302   0.635292   17.368918
0.57747    9.365404    6.009093    0.572695
0.000302   0.395141   15.008327
0.71831    9.365404    6.009093    0.572695
0.000302   0.155654   13.365250
0.85916    9.365404    6.009093    0.572695
0.000302   0.095367   12.412546
1.00000    9.365404    6.009093    0.572695
0.000302   0.362941   12.281484

COMB DB-G3-2 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -1.099903   -47.915356    -0.646171
-0.000751  -0.722650  -141.053707
0.57747   -1.099903   -47.915356    -0.646171
-0.000751  -0.451803  -122.007749
0.71831   -1.099903   -47.915356    -0.646171
-0.000751  -0.181390  -103.967062
0.85916   -1.099903   -47.915356    -0.646171
-0.000751  -0.085161   -86.095007
1.00000   -1.099903   -47.915356    -0.646171
-0.000751  -0.325383   -69.243074
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2344

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   12.549396    6.097877    0.592845
 0.000754   0.658385   35.639939
0.57747   12.549396    6.097877    0.592845
 0.000754   0.409787   35.347596
0.71831   12.549396    6.097877    0.592845
 0.000754   0.162246   36.974876
0.85916   12.549396    6.097877    0.592845
 0.000754   0.098853   43.842535
1.00000   12.549396    6.097877    0.592845
 0.000754   0.388097   67.304323

COMB DB-G3-3 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -0.834234  -101.664054    -0.695941
-0.001195  -0.780931  -166.703662
0.57747   -0.834234  -101.664054    -0.695941
-0.001195  -0.469195  -125.119093
0.71831   -0.834234  -101.664054    -0.695941
-0.001195  -0.198003   -86.927866
0.85916   -0.834234  -101.664054    -0.695941
-0.001195  -0.087465   -68.736869
1.00000   -0.834234  -101.664054    -0.695941
-0.001195  -0.336110   -61.799818

COMB DB-G3-4 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   12.735747   57.141221    0.771997
 0.004002   0.845527  151.247986
0.57747   12.735747   57.141221    0.771997
 0.004002   0.521887  131.425511
0.71831   12.735747   57.141221    0.771997
 0.004002   0.209750  119.213555
0.85916   12.735747   57.141221    0.771997
 0.004002   0.129376  118.830547
1.00000   12.735747   57.141221    0.771997
 0.004002   0.468310  132.102421

COMB DB-G3-4 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -5.843854  -118.832078    -0.833594
-0.004124  -0.932955  -150.541412
0.57747   -5.843854  -118.832078    -0.833594
-0.004124  -0.583474  -108.721956
0.71831   -5.843854  -118.832078    -0.833594
-0.004124  -0.234458   -76.244407
0.85916   -5.843854  -118.832078    -0.833594
-0.004124  -0.126919   -64.113722
1.00000   -5.843854  -118.832078    -0.833594
-0.004124  -0.450186   -53.487892

COMB DL-G1-1 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    0.270724   75.150064    0.691597
 0.000775   0.770376  102.030043
0.57747    0.270724   75.150064    0.691597
 0.000775   0.480414   70.720431
0.71831    0.270724   75.150064    0.691597
 0.000775   0.189973   39.734092
0.85916    0.270724   75.150064    0.691597
 0.000775   0.109904   10.108967
1.00000    0.270724   75.150064    0.691597
 0.000775   0.442006    3.233833

COMB DL-G1-1 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -11.302882   -7.809121    -0.790615
-0.000401  -0.883841   -20.276682
0.57747   -11.302882   -7.809121    -0.790615
-0.000401  -0.552308   -17.176833
0.71831   -11.302882   -7.809121    -0.790615
-0.000401  -0.220660   -14.549689
0.85916   -11.302882   -7.809121    -0.790615
-0.000401  -0.098651   -13.130513
1.00000   -11.302882   -7.809121    -0.790615
-0.000401  -0.389116   -33.619585
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2345

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    5.586869  105.172721    1.005736
 0.007148   1.092290  203.781947
0.57747    5.586869  105.172721    1.005736
 0.007148   0.672610  165.536515
0.71831    5.586869  105.172721    1.005736
 0.007148   0.271920  140.848602
0.85916    5.586869  105.172721    1.005736
 0.007148   0.180626  130.995173
1.00000    5.586869  105.172721    1.005736
 0.007148   0.630363  135.586221

COMB DL-G1-2 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -13.674763   -87.494734    -1.076911
-0.006725  -1.197625   -51.797041
0.57747   -13.674763   -87.494734    -1.076911
-0.006725  -0.746207   -25.835503
0.71831   -13.674763   -87.494734    -1.076911
-0.006725  -0.298264   -19.834713
0.85916   -13.674763   -87.494734    -1.076911
-0.006725  -0.172865   -15.916773
1.00000   -13.674763   -87.494734    -1.076911
-0.006725  -0.594438   -22.637142

COMB DL-G1-3 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    8.285634   94.177493    1.077625
 0.005474   1.180708  187.589951
0.57747    8.285634   94.177493    1.077625
 0.005474   0.730153  154.387172
0.71831    8.285634   94.177493    1.077625
 0.005474   0.292964  132.720949
0.85916    8.285634   94.177493    1.077625
 0.005474   0.186882  128.953376
1.00000    8.285634   94.177493    1.077625
 0.005474   0.688029  142.322531

COMB DL-G1-3 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -12.568391  -112.849166    -1.197778
-0.005176  -1.335285   -85.232527
0.57747   -12.568391  -112.849166    -1.197778
-0.005176  -0.833021   -47.159446
0.71831   -12.568391  -112.849166    -1.197778
-0.005176  -0.333013   -23.963487
0.85916   -12.568391  -112.849166    -1.197778
-0.005176  -0.172610   -15.876440
1.00000   -12.568391  -112.849166    -1.197778
-0.005176  -0.625048   -20.474812

COMB DL-G1-4 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    9.925118   81.400270    1.202484
 0.004570   1.322678  164.823684
0.57747    9.925118   81.400270    1.202484
 0.004570   0.819550  135.929700
0.71831    9.925118   81.400270    1.202484
 0.004570   0.327407  116.644738
0.85916    9.925118   81.400270    1.202484
 0.004570   0.206166  112.188933
1.00000    9.925118   81.400270    1.202484
 0.004570   0.770960  121.959308

COMB DL-G1-4 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -11.267981  -113.974555    -1.350018
-0.004471  -1.505548  -129.480325
0.57747   -11.267981  -113.974555    -1.350018
-0.004471  -0.939455  -89.622570
0.71831   -11.267981  -113.974555    -1.350018
-0.004471  -0.375323   -62.269965
0.85916   -11.267981  -113.974555    -1.350018
-0.004471  -0.188089   -47.848144
1.00000   -11.267981  -113.974555    -1.350018
-0.004471  -0.692835   -43.788091
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2346

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    6.214535    9.824619    0.240294
0.004642   0.249432   59.978445
0.57747    6.214535    9.824619    0.240294
0.004642   0.149852   62.469180
0.71831    6.214535    9.824619    0.240294
0.004642   0.064319   76.953567
0.85916    6.214535    9.824619    0.240294
0.004642   0.053227  105.130001
1.00000    6.214535    9.824619    0.240294
0.004642   0.149490  139.134985

COMB DL-G2-1 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -0.794908   -88.861438    -0.233722
-0.004632  -0.257998   -42.075421
0.57747   -0.794908   -88.861438    -0.233722
-0.004632  -0.160276   -14.342641
0.71831   -0.794908   -88.861438    -0.233722
-0.004632  -0.064989    -4.485915
0.85916   -0.794908   -88.861438    -0.233722
-0.004632  -0.053641    -3.495550
1.00000   -0.794908   -88.861438    -0.233722
-0.004632  -0.153665    -2.486434

COMB DL-G2-2 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    9.927824    9.836861    0.511134
0.004600   0.550955   58.782325
0.57747    9.927824    9.836861    0.511134
0.004600   0.337609   61.365009
0.71831    9.927824    9.836861    0.511134
0.004600   0.136952   75.629274
0.85916    9.927824    9.836861    0.511134
0.004600   0.098351  108.338960
1.00000    9.927824    9.836861    0.511134
0.004600   0.334818  149.085358

COMB DL-G2-2 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -1.646428  -123.435599    -0.568705
-0.004723  -0.633261   -95.234911
0.57747   -1.646428  -123.435599    -0.568705
-0.004723  -0.394691   -52.926130
0.71831   -1.646428  -123.435599    -0.568705
-0.004723  -0.158301   -25.464112
0.85916   -1.646428  -123.435599    -0.568705
-0.004723  -0.090854   -16.682347
1.00000   -1.646428  -123.435599    -0.568705
-0.004723  -0.304729   -11.702081

COMB DL-G2-3 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    9.070896   83.535206    0.935954
 0.003517   1.031235  203.783347
0.57747    9.070896   83.535206    0.935954
 0.003517   0.639158  174.104061
0.71831    9.070896   83.535206    0.935954
 0.003517   0.254854  152.965816
0.85916    9.070896   83.535206    0.935954
 0.003517   0.157938  146.317694
1.00000    9.070896   83.535206    0.935954
 0.003517   0.592751  147.067080

COMB DL-G2-3 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -9.482967  -105.933765    -1.039986
-0.003366  -1.160444   -96.479713
0.57747   -9.482967  -105.933765    -1.039986
-0.003366  -0.724154   -59.015917
0.71831   -9.482967  -105.933765    -1.039986
-0.003366  -0.289272   -32.030883
0.85916   -9.482967  -105.933765    -1.039986
-0.003366  -0.144733   -22.404463
1.00000   -9.482967  -105.933765    -1.039986
-0.003366  -0.537035   -16.011096
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2347

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   10.950019   73.681073    1.122586
 0.002943   1.240341  182.074595
0.57747   10.950019   73.681073    1.122586
 0.002943   0.770091  155.635348
0.71831   10.950019   73.681073    1.122586
 0.002943   0.306279  136.320592
0.85916   10.950019   73.681073    1.122586
 0.002943   0.186503  129.201062
1.00000   10.950019   73.681073    1.122586
 0.002943   0.710091  128.294075

COMB DL-G2-4 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -8.143573  -105.834359    -1.250601
-0.002969  -1.394645  -144.931658
0.57747   -8.143573  -105.834359    -1.250601
-0.002969  -0.870243  -106.503053
0.71831   -8.143573  -105.834359    -1.250601
-0.002969  -0.346831   -76.825597
0.85916   -8.143573  -105.834359    -1.250601
-0.002969  -0.170477   -61.512955
1.00000   -8.143573  -105.834359    -1.250601
-0.002969  -0.640956   -49.165921

COMB DL-G3-1 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    5.853403    7.152458    0.549806
8.58E-06   0.611923   21.816371
0.57747    5.853403    7.152458    0.549806
8.58E-06   0.381482   18.822780
0.71831    5.853403    7.152458    0.549806
8.58E-06   0.150714   15.840288
0.85916    5.853403    7.152458    0.549806
8.58E-06   0.086017   12.888444
1.00000    5.853403    7.152458    0.549806
8.58E-06   0.338103   10.023611

COMB DL-G3-1 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -0.197313   -24.995697    -0.601703
-0.000223  -0.670475  -101.851803
0.57747   -0.197313   -24.995697    -0.601703
-0.000223  -0.417693   -91.440265
0.71831   -0.197313   -24.995697    -0.601703
-0.000223  -0.165609   -81.056609
0.85916   -0.197313   -24.995697    -0.601703
-0.000223  -0.080170   -70.715320
1.00000   -0.197313   -24.995697    -0.601703
-0.000223  -0.310323   -60.444655

COMB DL-G3-2 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662    9.446635    9.512549    0.872716
0.000226   0.970628  251.371765
0.57747    9.446635    9.512549    0.872716
0.000226   0.604616   24.987930
0.71831    9.446635    9.512549    0.872716
0.000226   0.238911   21.585105
0.85916    9.446635    9.512549    0.872716
0.000226   0.141175   18.745783
1.00000    9.446635    9.512549    0.872716
0.000226   0.551787   17.137174

COMB DL-G3-2 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -1.497750   -54.814839    -0.982621
-0.000591  -1.096741  -163.540781
0.57747   -1.497750   -54.814839    -0.982621
-0.000591  -0.684041  -141.152410
0.71831   -1.497750   -54.814839    -0.982621
-0.000591  -0.272623  -119.545510
0.85916   -1.497750   -54.814839    -0.982621
-0.000591  -0.128008   -98.850308
1.00000   -1.497750   -54.814839    -0.982621
-0.000591  -0.493326   -79.213125
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2348

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   12.205714    8.937128    0.905445
 0.000371   1.008751   45.806490
0.57747   12.205714    8.937128    0.905445
 0.000371   0.628839   45.477743
0.71831   12.205714    8.937128    0.905445
 0.000371   0.248173   48.452363
0.85916   12.205714    8.937128    0.905445
 0.000371   0.145018   60.043599
1.00000   12.205714    8.937128    0.905445
 0.000371   0.577713   79.146325

COMB DL-G3-3 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -1.088431   -99.139002    -1.034160
-0.000716  -1.155374  -178.008413
0.57747   -1.088431   -99.139002    -1.034160
-0.000716  -0.720741  -139.328216
0.71831   -1.088431   -99.139002    -1.034160
-0.000716  -0.287200  -103.612615
0.85916   -1.088431   -99.139002    -1.034160
-0.000716  -0.129066   -86.185647
1.00000   -1.088431   -99.139002    -1.034160
-0.000716  -0.508984   -70.954663

COMB DL-G3-4 ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   12.668230   59.030283    1.100190
 0.002974   1.214488  167.258646
0.57747   12.668230   59.030283    1.100190
 0.002974   0.753671  147.208698
0.71831   12.668230   59.030283    1.100190
 0.002974   0.299901  134.799407
0.85916   12.668230   59.030283    1.100190
 0.002974   0.182345  134.847617
1.00000   12.668230   59.030283    1.100190
 0.002974   0.688516  141.049485

COMB DL-G3-4 ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -5.699688  -111.230557    -1.210416
-0.003075  -1.349264  -163.775498
0.57747   -5.699688  -111.230557    -1.210416
-0.003075  -0.841040  -123.427753
0.71831   -5.699688  -111.230557    -1.210416
-0.003075  -0.334924   -92.552405
0.85916   -5.699688  -111.230557    -1.210416
-0.003075  -0.168547   -76.529436
1.00000   -5.699688  -111.230557    -1.210416
-0.003075  -0.629767   -62.504065

COMB      DB ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   12.735747  107.944579    0.922883
 0.007314   1.011689  200.726189
0.57747   12.735747  107.944579    0.922883
 0.007314   0.624790  166.341414
0.71831   12.735747  107.944579    0.922883
 0.007314   0.249829  143.186574
0.85916   12.735747  107.944579    0.922883
 0.007314   0.143728  132.500464
1.00000   12.735747  107.944579    0.922883
 0.007314   0.527185  142.755126

COMB      DB ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -13.875557  -137.349836    -0.940551
-0.006819  -1.053356  -166.703662
0.57747   -13.875557  -137.349836    -0.940551
-0.006819  -0.658986  -125.119093
0.71831   -13.875557  -137.349836    -0.940551
-0.006819  -0.264968  -103.967062
0.85916   -13.875557  -137.349836    -0.940551
-0.006819  -0.150774   -86.095007
1.00000   -13.875557  -137.349836    -0.940551
-0.006819  -0.537164   -69.243074
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2349

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   12.668230  105.172721    1.202484
 0.007148   1.322678  203.783347
0.57747   12.668230  105.172721    1.202484
 0.007148   0.819550  174.104061
0.71831   12.668230  105.172721    1.202484
 0.007148   0.327407  152.965816
0.85916   12.668230  105.172721    1.202484
 0.007148   0.206166  146.317694
1.00000   12.668230  105.172721    1.202484
 0.007148   0.770960  149.085358

COMB      DL ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -13.674763  -123.435599    -1.350018
-0.006725  -1.505548  -178.008413
0.57747   -13.674763  -123.435599    -1.350018
-0.006725  -0.939455  -141.152410
0.71831   -13.674763  -123.435599    -1.350018
-0.006725  -0.375323  -119.545510
0.85916   -13.674763  -123.435599    -1.350018
-0.006725  -0.188089   -98.850308
1.00000   -13.674763  -123.435599    -1.350018
-0.006725  -0.692835   -79.213125

COMB      CAR ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   12.735747  107.944579    1.202484
 0.007314   1.322678  203.783347
0.57747   12.735747  107.944579    1.202484
 0.007314   0.819550  174.104061
0.71831   12.735747  107.944579    1.202484
 0.007314   0.327407  152.965816
0.85916   12.735747  107.944579    1.202484
 0.007314   0.206166  146.317694
1.00000   12.735747  107.944579    1.202484
 0.007314   0.770960  149.085358

COMB      CAR ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -13.875557  -137.349836    -1.350018
-0.006819  -1.505548  -178.008413
0.57747   -13.875557  -137.349836    -1.350018
-0.006819  -0.939455  -141.152410
0.71831   -13.875557  -137.349836    -1.350018
-0.006819  -0.375323  -119.545510
0.85916   -13.875557  -137.349836    -1.350018
-0.006819  -0.188089   -98.850308
1.00000   -13.875557  -137.349836    -1.350018
-0.006819  -0.692835   -79.213125

COMB  DESIGN ------------------- MAX

REL DIST         P          V2          V3
      T          M2         M3
0.43662   12.735747  107.944579    1.202484
 0.007314   1.322678  203.783347
0.57747   12.735747  107.944579    1.202484
 0.007314   0.819550  174.104061
0.71831   12.735747  107.944579    1.202484
 0.007314   0.327407  152.965816
0.85916   12.735747  107.944579    1.202484
 0.007314   0.206166  146.317694
1.00000   12.735747  107.944579    1.202484
 0.007314   0.770960  149.085358

COMB  DESIGN ------------------- MIN

REL DIST         P          V2          V3
      T          M2         M3
0.43662   -13.875557  -137.349836    -1.350018
-0.006819  -1.505548  -178.008413
0.57747   -13.875557  -137.349836    -1.350018
-0.006819  -0.939455  -141.152410
0.71831   -13.875557  -137.349836    -1.350018
-0.006819  -0.375323  -119.545510
0.85916   -13.875557  -137.349836    -1.350018
-0.006819  -0.188089   -98.850308
1.00000   -13.875557  -137.349836    -1.350018
-0.006819  -0.692835   -79.213125
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2350

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      211 ================== LENGTH
=    2.977440

COMB DB-G1-1 ------------------- MAX
```

```
REL DIST P V2 V3
T M2 M3
0.00000 0.167873 75.519717 0.541243
0.000765 0.298372 2.582453
0.14085 0.167873 75.519717 0.541243
0.000765 0.071639 3.078002
0.28169 0.167873 75.519717 0.541243
0.000765 0.161942 3.606929
0.42254 0.167873 75.519717 0.541243
0.000765 0.406621 4.702636
0.56338 0.167873 75.519717 0.541243
0.000765 0.651304 6.762959

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.954439 -5.453316 -0.583474
-0.000408 -0.327449 -23.593290
0.14085 -10.954439 -5.453316 -0.583474
-0.000408 -0.082736 -54.931088
0.28169 -10.954439 -5.453316 -0.583474
-0.000408 -0.155855 -86.511137
0.42254 -10.954439 -5.453316 -0.583474
-0.000408 -0.382706 -118.096400
0.56338 -10.954439 -5.453316 -0.583474
-0.000408 -0.609582 -149.710242

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.003678 173.460948 0.764712
0.007217 0.449265 126.195623
0.14085 2.003678 173.460948 0.764712
0.007217 0.130175 101.046993
0.28169 2.003678 173.460948 0.764712
0.007217 0.216808 76.142935
0.42254 2.003678 173.460948 0.764712
0.007217 0.542671 69.748578
0.56338 2.003678 173.460948 0.764712
0.007217 0.868504 76.249847

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.084855 -27.050954 -0.776998
-0.006713 -0.444522 -10.692416
0.14085 -18.084855 -27.050954 -0.776998
-0.006713 -0.132583 -50.601259
0.28169 -18.084855 -27.050954 -0.776998
-0.006713 -0.215678 -90.782767
0.42254 -18.084855 -27.050954 -0.776998
-0.006713 -0.513991 -132.272495
0.56338 -18.084855 -27.050954 -0.776998
-0.006713 -0.834397 -195.619070

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.442351 141.484265 0.806087
0.005265 0.465616 126.344350
0.14085 6.442351 141.484265 0.806087
0.005265 0.128762 133.120268
0.28169 6.442351 141.484265 0.806087
0.005265 0.245502 139.929260
0.42254 6.442351 141.484265 0.806087
0.005265 0.617002 159.627011
0.56338 6.442351 141.484265 0.806087
0.005265 0.988499 188.146939

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.576734 -76.159123 -0.885925
-0.004829 -0.504168 -9.520136
0.14085 -15.576734 -76.159123 -0.885925
-0.004829 -0.142080 -46.381717
0.28169 -15.576734 -76.159123 -0.885925
-0.004829 -0.226704 -83.403801
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2351

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42254 -15.576734 -76.159123 -0.885925
-0.004829 -0.549345 -121.267265
0.56338 -15.576734 -76.159123 -0.885925
-0.004829 -0.887158 -173.983413

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.684630 119.633395 0.875853
0.004614 0.502199 107.112236
0.14085 8.684630 119.633395 0.875853
0.004614 0.135821 112.096703
0.28169 8.684630 119.633395 0.875853
0.004614 0.271309 119.708850
0.42254 8.684630 119.633395 0.875853
0.004614 0.682252 138.911282
0.56338 8.684630 119.633395 0.875853
0.004614 1.093156 168.116500

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.630675 -81.312072 -0.979924
-0.004395 -0.559076 -32.929985
0.14085 -13.630675 -81.312072 -0.979924
-0.004395 -0.152918 -56.944221
0.28169 -13.630675 -81.312072 -0.979924
-0.004395 -0.245917 -81.754044
0.42254 -13.630675 -81.312072 -0.979924
-0.004395 -0.600413 -108.387973
0.56338 -13.630675 -81.312072 -0.979924
-0.004395 -0.967496 -148.108166

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.765703 64.825116 0.160454
0.005256 0.113158 137.235562
0.14085 3.765703 64.825116 0.160454
0.005256 0.046873 129.597791
0.28169 3.765703 64.825116 0.160454
0.005256 0.046681 122.123994
0.42254 3.765703 64.825116 0.160454
0.005256 0.117007 129.122066
0.56338 3.765703 64.825116 0.160454
0.005256 0.187337 146.558494

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.345907 -50.540529 -0.167722
-0.005192 -0.102124 -1.745703
0.14085 -4.345907 -50.540529 -0.167722
-0.005192 -0.043485 -1.176595
0.28169 -4.345907 -50.540529 -0.167722
-0.005192 -0.041035 -0.745647
0.42254 -4.345907 -50.540529 -0.167722
-0.005192 -0.089553 -1.388926
0.56338 -4.345907 -50.540529 -0.167722
-0.005192 -0.156713 -20.321514

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.662770 60.631962 0.360429
0.005219 0.223472 142.997385
0.14085 8.662770 60.631962 0.360429
0.005219 0.073183 149.709922
0.28169 8.662770 60.631962 0.360429
0.005219 0.115172 159.786367
0.42254 8.662770 60.631962 0.360429
0.005219 0.290986 184.235243
0.56338 8.662770 60.631962 0.360429
0.005219 0.466784 218.769993

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.804853 -90.713664 -0.419314
-0.005196 -0.244141 -11.551304
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2352

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14085 -4.804853 -90.713664 -0.419314
-0.005196 -0.079123 -7.389769
0.28169 -4.804853 -90.713664 -0.419314
-0.005196 -0.097131 -4.267108
0.42254 -4.804853 -90.713664 -0.419314
-0.005196 -0.230762 -3.659624
0.56338 -4.804853 -90.713664 -0.419314
-0.005196 -0.381782 -20.871504

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.351811 121.110274 0.691308
0.004441 0.399926 138.536860
0.14085 8.351811 121.110274 0.691308
0.004441 0.110956 129.631487
0.28169 8.351811 121.110274 0.691308
0.004441 0.213539 141.690625
0.42254 8.351811 121.110274 0.691308
0.004441 0.536418 166.287577
0.56338 8.351811 121.110274 0.691308
0.004441 0.859271 198.782418

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.242314 -84.752001 -0.769936
-0.004163 -0.437632 -13.578753
0.14085 -12.242314 -84.752001 -0.769936
-0.004163 -0.122344 -15.238682
0.28169 -12.242314 -84.752001 -0.769936
-0.004163 -0.193304 -45.120556
0.42254 -12.242314 -84.752001 -0.769936
-0.004163 -0.470706 -77.076753
0.56338 -12.242314 -84.752001 -0.769936
-0.004163 -0.760412 -121.813587

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.265744 103.562588 0.793855
0.003863 0.455498 118.466772
0.14085 10.265744 103.562588 0.793855
0.003863 0.123315 110.036130
0.28169 10.265744 103.562588 0.793855
0.003863 0.250754 118.725688
0.42254 10.265744 103.562588 0.793855
0.003863 0.629926 138.194371
0.56338 10.265744 103.562588 0.793855
0.003863 1.009081 165.431006

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.392873 -84.316320 -0.904208
-0.003823 -0.512155 -42.306735
0.14085 -10.392873 -84.316320 -0.904208
-0.003823 -0.139291 -38.138829
0.28169 -10.392873 -84.316320 -0.904208
-0.003823 -0.221578 -57.316248
0.42254 -10.392873 -84.316320 -0.904208
-0.003823 -0.543995 -77.986256
0.56338 -10.392873 -84.316320 -0.904208
-0.003823 -0.876740 -109.222454

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.277272 4.444070 0.342109
0.000188 0.191462 5.528153
0.14085 5.277272 4.444070 0.342109
0.000188 0.048656 3.968042
0.28169 5.277272 4.444070 0.342109
0.000188 0.115923 2.666975
0.42254 5.277272 4.444070 0.342109
0.000188 0.291014 2.269720
0.56338 5.277272 4.444070 0.342109
0.000188 0.466116 1.978625
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2353

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.114737 -19.580390 -0.417523
-0.000523 -0.234259 -51.199384
0.14085 -0.114737 -19.580390 -0.417523
-0.000523 -0.059204 -43.317436
0.28169 -0.114737 -19.580390 -0.417523
-0.000523 -0.094803 -35.531968
0.42254 -0.114737 -19.580390 -0.417523
-0.000523 -0.238259 -27.783380
0.56338 -0.114737 -19.580390 -0.417523
-0.000523 -0.381725 -20.060873

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.396354 8.166759 0.561016
0.000760 0.315296 12.299860
0.14085 9.396354 8.166759 0.561016
0.000760 0.080042 12.952047
0.28169 9.396354 8.166759 0.561016
0.000760 0.186443 18.580490
0.42254 9.396354 8.166759 0.561016
0.000760 0.469255 26.818414
0.56338 9.396354 8.166759 0.561016
0.000760 0.752080 36.048984

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.231894 -46.541760 -0.674395
-0.001192 -0.379555 -69.177658
0.14085 -1.231894 -46.541760 -0.674395
-0.001192 -0.097193 -55.154849
0.28169 -1.231894 -46.541760 -0.674395
-0.001192 -0.156001 -42.452961
0.42254 -1.231894 -46.541760 -0.674395
-0.001192 -0.390544 -31.685366
0.56338 -1.231894 -46.541760 -0.674395
-0.001192 -0.625797 -22.642643

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.626616 9.508875 0.591797
0.000830 0.334555 67.292529
0.14085 12.626616 9.508875 0.591797
0.000830 0.086316 93.000724
0.28169 12.626616 9.508875 0.591797
0.000830 0.205679 121.702681
0.42254 12.626616 9.508875 0.591797
0.000830 0.518905 152.908551
0.56338 12.626616 9.508875 0.591797
0.000830 0.832119 185.185898

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.029789 -99.720313 -0.746927
-0.001170 -0.421436 -61.822061
0.14085 -1.029789 -99.720313 -0.746927
-0.001170 -0.108846 -50.006715
0.28169 -1.029789 -99.720313 -0.746927
-0.001170 -0.162996 -38.972952
0.42254 -1.029789 -99.720313 -0.746927
-0.001170 -0.410023 -29.309664
0.56338 -1.029789 -99.720313 -0.746927
-0.001170 -0.658182 -21.459060

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.523111 92.885081 0.752590
0.004244 0.435969 132.255523
0.14085 11.523111 92.885081 0.752590
0.004244 0.112152 125.625392
0.28169 11.523111 92.885081 0.752590
0.004244 0.240857 124.653666
0.42254 11.523111 92.885081 0.752590
0.004244 0.604820 141.470217
0.56338 11.523111 92.885081 0.752590
0.004244 0.968763 166.156354
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2354

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.126406 -86.362804 -0.867931
-0.004344 -0.492485 -53.500394
0.14085 -8.126406 -86.362804 -0.867931
-0.004344 -0.136061 -42.866743
0.28169 -8.126406 -86.362804 -0.867931
-0.004344 -0.208418 -47.867720
0.42254 -8.126406 -86.362804 -0.867931
-0.004344 -0.511692 -59.918504
0.56338 -8.126406 -86.362804 -0.867931
-0.004344 -0.827189 -84.441775

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.277620 74.700483 0.678212
0.000660 0.378493 3.228145
0.14085 0.277620 74.700483 0.678212
0.000660 0.093205 3.556982
0.28169 0.277620 74.700483 0.678212
0.000660 0.221756 3.915539
0.42254 0.277620 74.700483 0.678212
0.000660 0.558740 4.756721
0.56338 0.277620 74.700483 0.678212
0.000660 0.895610 7.186351

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.265493 -7.815715 -0.803237
-0.000333 -0.451511 -33.646924
0.14085 -11.265493 -7.815715 -0.803237
-0.000333 -0.113916 -62.591841
0.28169 -11.265493 -7.815715 -0.803237
-0.000333 -0.189398 -91.546344
0.42254 -11.265493 -7.815715 -0.803237
-0.000333 -0.474187 -120.697029
0.56338 -11.265493 -7.815715 -0.803237
-0.000333 -0.758739 -151.069300

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.586643 168.144160 0.991905
0.007104 0.168440 136.471536
0.14085 2.586643 168.144160 0.991905
0.007104 0.168440 109.211629
0.28169 2.586643 168.144160 0.991905
0.007104 0.299497 83.053625
0.42254 2.586643 168.144160 0.991905
0.007104 0.748886 73.725903
0.56338 2.586643 168.144160 0.991905
0.007104 1.201899 80.605099

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.623289 -27.978649 -1.081691
-0.006647 -0.635932 -22.661350
0.14085 -17.623289 -27.978649 -1.081691
-0.006647 -0.183041 -57.580444
0.28169 -17.623289 -27.978649 -1.081691
-0.006647 -0.272104 -92.765530
0.42254 -17.623289 -27.978649 -1.081691
-0.006647 -0.361224 -129.819547
0.56338 -17.623289 -27.978649 -1.081691
-0.006647 -1.079763 -195.610538

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.225246 138.726803 1.067090
0.005366 0.617395 142.316321
0.14085 6.225246 138.726803 1.067090
0.005366 0.169504 144.222651
0.28169 6.225246 138.726803 1.067090
0.005366 0.336104 146.341476
0.42254 6.225246 138.726803 1.067090
0.005366 0.843386 160.523285
0.56338 6.225246 138.726803 1.067090
0.005366 1.353311 186.578138
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2355

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.340095 -71.057730 -1.216734
-0.004952 -0.703183 -20.497095
0.14085 -15.340095 -71.057730 -1.216734
-0.004952 -0.193102 -52.706614
0.28169 -15.340095 -71.057730 -1.216734
-0.004952 -0.292736 -85.063733
0.42254 -15.340095 -71.057730 -1.216734
-0.004952 -0.724583 -118.805130
0.56338 -15.340095 -71.057730 -1.216734
-0.004952 -1.171201 -173.230722

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.243738 118.388423 1.188453
0.004642 0.681976 121.965617
0.14085 8.243738 118.388423 1.188453
0.004642 0.183103 122.612779
0.28169 8.243738 118.388423 1.188453
0.004642 0.378716 125.750792
0.42254 8.243738 118.388423 1.188453
0.004642 0.951588 139.651503
0.56338 8.243738 118.388423 1.188453
0.004642 1.526157 166.932766

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.564532 -79.482400 -1.370950
-0.004421 -0.786156 -43.825868
0.14085 -13.564532 -79.482400 -1.370950
-0.004421 -0.211373 -62.945751
0.28169 -13.564532 -79.482400 -1.370950
-0.004421 -0.327424 -83.509698
0.42254 -13.564532 -79.482400 -1.370950
-0.004421 -0.812728 -105.797587
0.56338 -13.564532 -79.482400 -1.370950
-0.004421 -1.310554 -147.924929

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.160785 54.459430 0.252006
0.004450 0.162931 139.140646
0.14085 4.160785 54.459430 0.252006
0.004450 0.057887 134.306406
0.28169 4.160785 54.459430 0.252006
0.004450 0.066221 129.570249
0.42254 4.160785 54.459430 0.252006
0.004450 0.163244 136.190035
0.56338 4.160785 54.459430 0.252006
0.004450 0.262744 153.161867

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.591941 -47.622975 -0.238542
-0.004380 -0.153921 -2.472375
0.14085 -3.591941 -47.622975 -0.238542
-0.004380 -0.054596 -1.526828
0.28169 -3.591941 -47.622975 -0.238542
-0.004380 -0.065472 -0.757871
0.42254 -3.591941 -47.622975 -0.238542
-0.004380 -0.155010 -1.181038
0.56338 -3.591941 -47.622975 -0.238542
-0.004380 -0.259739 -20.845304

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.007839 52.428406 0.514868
0.004538 0.308690 149.082120
0.14085 8.007839 52.428406 0.514868
0.004538 0.092657 156.288074
0.28169 8.007839 52.428406 0.514868
0.004538 0.160836 167.025853
0.42254 8.007839 52.428406 0.514868
0.004538 0.404254 189.127690
0.56338 8.007839 52.428406 0.514868
0.004538 0.649677 221.418410
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2356

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.296778 -84.349029 -0.585967
-0.004496 -0.348148 -11.702337
0.14085 -4.296778 -84.349029 -0.585967
-0.004496 -0.103190 -7.097816
0.28169 -4.296778 -84.349029 -0.585967
-0.004496 -0.138025 -4.633793
0.42254 -4.296778 -84.349029 -0.585967
-0.004496 -0.338983 -3.719434
0.56338 -4.296778 -84.349029 -0.585967
-0.004496 -0.554201 -21.880766

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.858169 110.402078 0.929111
0.003602 0.532862 147.011857
0.14085 7.858169 110.402078 0.929111
0.003602 0.142310 135.271470
0.28169 7.858169 110.402078 0.929111
0.003602 0.291973 147.246262
0.42254 7.858169 110.402078 0.929111
0.003602 0.733272 169.876575
0.56338 7.858169 110.402078 0.929111
0.003602 1.175568 200.729024

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.145012 -80.780388 -1.055260
-0.003338 -0.603584 -15.995277
0.14085 -11.145012 -80.780388 -1.055260
-0.003338 -0.161223 -15.138384
0.28169 -11.145012 -80.780388 -1.055260
-0.003338 -0.254635 -40.797655
0.42254 -11.145012 -80.780388 -1.055260
-0.003338 -0.635401 -69.936610
0.56338 -11.145012 -80.780388 -1.055260
-0.003338 -1.024623 -112.523528

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.961156 96.266137 1.111905
0.003149 0.633091 128.259847
0.14085 9.961156 96.266137 1.111905
0.003149 0.166206 116.769697
0.28169 9.961156 96.266137 1.111905
0.003149 0.350053 124.388982
0.42254 9.961156 96.266137 1.111905
0.003149 0.879038 141.110908
0.56338 9.961156 96.266137 1.111905
0.003149 1.409159 166.613272

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.535193 -84.825211 -1.264050
-0.003082 -0.718387 -49.173132
0.14085 -9.535193 -84.825211 -1.264050
-0.003082 -0.188310 -41.325462
0.28169 -9.535193 -84.825211 -1.264050
-0.003082 -0.306593 -55.149369
0.42254 -9.535193 -84.825211 -1.264050
-0.003082 -0.765108 -71.783126
0.56338 -9.535193 -84.825211 -1.264050
-0.003082 -1.230994 -101.219556

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.896732 7.217484 0.542351
0.000176 0.303890 10.039290
0.14085 5.896732 7.217484 0.542351
0.000176 0.076748 7.344398
0.28169 5.896732 7.217484 0.542351
0.000176 0.167178 4.790836
0.42254 5.896732 7.217484 0.542351
0.000176 0.419369 2.693014
0.56338 5.896732 7.217484 0.542351
0.000176 0.671957 2.177071
```

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2357

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.190939	-25.147600	-0.601464
-0.000440	-0.336461	-60.472759	
0.14085	-0.190939	-25.147600	-0.601464
-0.000440	-0.083774	-50.266689	
0.28169	-0.190939	-25.147600	-0.601464
-0.000440	-0.150899	-40.150373	
0.42254	-0.190939	-25.147600	-0.601464
-0.000440	-0.378573	-30.204162	
0.56338	-0.190939	-25.147600	-0.601464
-0.000440	-0.605900	-21.808101	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.459809	10.870453	0.859809
0.000598	0.482213	17.160043	
0.14085	9.459809	10.870453	0.859809
0.000598	0.122015	16.893964	
0.28169	9.459809	10.870453	0.859809
0.000598	0.275780	21.877359	
0.42254	9.459809	10.870453	0.859809
0.000598	0.692856	28.684572	
0.56338	9.459809	10.870453	0.859809
0.000598	1.110244	38.113252	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.564305	-54.085617	-0.994693
-0.000957	-0.558468	-79.261206	
0.14085	-1.564305	-54.085617	-0.994693
-0.000957	-0.141021	-61.697864	
0.28169	-1.564305	-54.085617	-0.994693
-0.000957	-0.239417	-47.351681	
0.42254	-1.564305	-54.085617	-0.994693
-0.000957	-0.559619	-34.007982	
0.56338	-1.564305	-54.085617	-0.994693
-0.000957	-0.960189	-24.011747	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.354277	8.995003	0.901446
0.000457	0.505080	79.126522	
0.14085	12.354277	8.995003	0.901446
0.000457	0.126589	101.956433	
0.28169	12.354277	8.995003	0.901446
0.000457	0.291222	128.515725	
0.42254	12.354277	8.995003	0.901446
0.000457	0.733726	156.319010	
0.56338	12.354277	8.995003	0.901446
0.000457	1.176040	186.124873	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.056331	-100.169008	-1.053642
-0.000623	-0.589969	-70.978275	
0.14085	-1.056331	-100.169008	-1.053642
-0.000623	-0.147596	-56.041809	
0.28169	-1.056331	-100.169008	-1.053642
-0.000623	-0.488819	-43.235306	
0.42254	-1.056331	-100.169008	-1.053642
-0.000623	-0.627702	-31.282258	
0.56338	-1.056331	-100.169008	-1.053642
-0.000623	-1.005966	-21.638556	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.593450	83.677260	1.091082
0.003231	0.622845	141.026643	
0.14085	11.593450	83.677260	1.091082
0.003231	0.165187	129.790998	
0.28169	11.593450	83.677260	1.091082
0.003231	0.338090	132.671167	
0.42254	11.593450	83.677260	1.091082
0.003231	0.848555	147.758015	
0.56338	11.593450	83.677260	1.091082
0.003231	1.360191	171.635828	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2358

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.218507	-88.463796	-1.219892
-0.003290	-0.694244	-62.516373	
0.14085	-7.218507	-88.463796	-1.219892
-0.003290	-0.182675	-48.803102	
0.28169	-7.218507	-88.463796	-1.219892
-0.003290	-0.299919	-49.148997	
0.42254	-7.218507	-88.463796	-1.219892
-0.003290	-0.749319	-56.787474	
0.56338	-7.218507	-88.463796	-1.219892
-0.003290	-1.206547	-78.317632	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.626616	173.460948	0.875853
0.007217	0.502199	142.997385	
0.14085	12.626616	173.460948	0.875853
0.007217	0.135821	149.709922	
0.28169	12.626616	173.460948	0.875853
0.007217	0.271309	159.786197	
0.42254	12.626616	173.460948	0.875853
0.007217	0.682252	184.235243	
0.56338	12.626616	173.460948	0.875853
0.007217	1.093156	218.769993	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.084855	-99.720313	-0.979924
-0.006713	-0.556076	-69.277658	
0.14085	-18.084855	-99.720313	-0.979924
-0.006713	-0.152918	-56.944221	
0.28169	-18.084855	-99.720313	-0.979924
-0.006713	-0.245917	-90.782767	
0.42254	-18.084855	-99.720313	-0.979924
-0.006713	-0.600403	-132.272495	
0.56338	-18.084855	-99.720313	-0.979924
-0.006713	-0.967496	-195.619070	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.354277	168.144160	1.188453
0.007104	0.681976	149.082120	
0.14085	12.354277	168.144160	1.188453
0.007104	0.183103	156.288074	
0.28169	12.354277	168.144160	1.188453
0.007104	0.378716	167.025853	
0.42254	12.354277	168.144160	1.188453
0.007104	0.951588	189.127690	
0.56338	12.354277	168.144160	1.188453
0.007104	1.526157	221.418410	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.623289	-100.169008	-1.370950
-0.006647	-0.786156	-79.261206	
0.14085	-17.623289	-100.169008	-1.370950
-0.006647	-0.211373	-62.945751	
0.28169	-17.623289	-100.169008	-1.370950
-0.006647	-0.327424	-92.765530	
0.42254	-17.623289	-100.169008	-1.370950
-0.006647	-0.812728	-129.819547	
0.56338	-17.623289	-100.169008	-1.370950
-0.006647	-1.310554	-195.610538	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.626616	173.460948	1.188453
0.007217	0.681976	149.082120	
0.14085	12.626616	173.460948	1.188453
0.007217	0.183103	156.288074	
0.28169	12.626616	173.460948	1.188453
0.007217	0.378716	167.025853	
0.42254	12.626616	173.460948	1.188453
0.007217	0.951588	189.127690	
0.56338	12.626616	173.460948	1.188453
0.007217	1.526157	221.418410	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2359

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.084855	-100.169008	-1.370950
-0.006713	-0.786156	-79.261206	
0.14085	-18.084855	-100.169008	-1.370950
-0.006713	-0.211373	-62.945751	
0.28169	-18.084855	-100.169008	-1.370950
-0.006713	-0.327424	-92.765530	
0.42254	-18.084855	-100.169008	-1.370950
-0.006713	-0.812728	-132.272495	
0.56338	-18.084855	-100.169008	-1.370950
-0.006713	-1.310554	-195.619070	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.626616	173.460948	1.188453
0.007217	0.681976	149.082120	
0.14085	12.626616	173.460948	1.188453
0.007217	0.183103	156.288074	
0.28169	12.626616	173.460948	1.188453
0.007217	0.378716	167.025853	
0.42254	12.626616	173.460948	1.188453
0.007217	0.951588	189.127690	
0.56338	12.626616	173.460948	1.188453
0.007217	1.526157	221.418410	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.084855	-100.169008	-1.370950
-0.006713	-0.786156	-79.261206	
0.14085	-18.084855	-100.169008	-1.370950
-0.006713	-0.211373	-62.945751	
0.28169	-18.084855	-100.169008	-1.370950
-0.006713	-0.327424	-92.765530	
0.42254	-18.084855	-100.169008	-1.370950
-0.006713	-0.812728	-132.272495	
0.56338	-18.084855	-100.169008	-1.370950
-0.006713	-1.310554	-195.619070	

ELEM 212 ========== LENGTH = 2.977327

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.180680	76.161208	0.680687
0.000564	0.757966	105.432390	
0.57747	0.180680	76.161208	0.680687
0.000564	0.472658	73.560919	
0.71832	0.180680	76.161208	0.680687
0.000564	0.187371	41.781139	
0.85916	0.180680	76.161208	0.680687
0.000564	0.095732	10.326533	
1.00000	0.180680	76.161208	0.680687
0.000564	0.342080	2.611915	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.045179	-5.575615	-0.611330
-0.000872	-0.683320	-12.113700	
0.57747	-11.045179	-5.575615	-0.611330
-0.000872	-0.426970	-9.952688	
0.71832	-11.045179	-5.575615	-0.611330
-0.000872	-0.170619	-8.149880	
0.85916	-11.045179	-5.575615	-0.611330
-0.000872	-0.098278	-6.521114	
1.00000	-11.045179	-5.575615	-0.611330
-0.000872	-0.383772	-23.509871	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.541107	107.971691	1.006700
0.006891	1.097901	200.825475	
0.57747	4.541107	107.971691	1.006700
0.006891	0.677480	160.725102	
0.71832	4.541107	107.971691	1.006700
0.006891	0.274826	133.332924	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2360

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85916	4.541107	107.971691	1.006700
0.006891	0.131938	123.113831	
1.00000	4.541107	107.971691	1.006700
0.006891	0.471584	125.886456	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.911102	-88.231183	-0.841646
-0.007283	-0.940146	-37.956992	
0.57747	-13.911102	-88.231183	-0.841646
-0.007283	-0.587216	-16.449936	
0.71832	-13.911102	-88.231183	-0.841646
-0.007283	-0.234264	-12.065384	
0.85916	-13.911102	-88.231183	-0.841646
-0.007283	-0.170371	-9.504982	
1.00000	-13.911102	-88.231183	-0.841646
-0.007283	-0.591026	-10.609706	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.074432	97.134432	0.954885
0.005203	1.047100	188.322155	
0.57747	8.074432	97.134432	0.954885
0.005203	0.647852	152.677187	
0.71832	8.074432	97.134432	0.954885
0.005203	0.260671	126.439252	
0.85916	8.074432	97.134432	0.954885
0.005203	0.122441	114.632883	
1.00000	8.074432	97.134432	0.954885
0.005203	0.449443	126.186448	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-12.790107	-117.196768	-0.801382
-0.005482	-0.894749	-82.156011	
0.57747	-12.790107	-117.196768	-0.801382
-0.005482	-0.558704	-42.711804	
0.71832	-12.790107	-117.196768	-0.801382
-0.005482	-0.222647	-13.973648	
0.85916	-12.790107	-117.196768	-0.801382
-0.005482	-0.155484	-9.735902	
1.00000	-12.790107	-117.196768	-0.801382
-0.005482	-0.554806	-9.477663	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	10.007917	82.878967	0.972735
0.004513	1.069241	162.240259	
0.57747	10.007917	82.878967	0.972735
0.004513	0.662310	131.717265	
0.71832	10.007917	82.878967	0.972735
0.004513	0.255983	109.002398	
0.85916	10.007917	82.878967	0.972735
0.004513	0.122201	98.323899	
1.00000	10.007917	82.878967	0.972735
0.004513	0.450688	107.036680	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.314034	-115.117813	-0.801331
-0.004584	-0.893511	-120.092308	
0.57747	-11.314034	-115.117813	-0.801331
-0.004584	-0.557494	-80.287252	
0.71832	-11.314034	-115.117813	-0.801331
-0.004584	-0.221477	-49.931406	
0.85916	-11.314034	-115.117813	-0.801331
-0.004584	-0.155433	-39.883748	
1.00000	-11.314034	-115.117813	-0.801331
-0.004584	-0.562562	-32.899931	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.800793	9.206988	0.249826
0.005538	0.261001	50.768439	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2361

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57747	5.800793	9.206988	0.249826
0.005538	0.157678	52.331137	
0.71832	5.800793	9.206988	0.249826
0.005538	0.069222	65.281687	
0.85916	5.800793	9.206988	0.249826
0.005538	0.033422	95.676986	
1.00000	5.800793	9.206988	0.249826
0.005538	0.088316	136.976713	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.763891	-101.264812	-0.157386
-0.005531	-0.175689	-41.194686	
0.57747	-0.763891	-101.264812	-0.157386
-0.005531	-0.109679	-11.675013	
0.71832	-0.763891	-101.264812	-0.157386
-0.005531	-0.043647	-3.045546	
0.85916	-0.763891	-101.264812	-0.157386
-0.005531	-0.055030	-2.420342	
1.00000	-0.763891	-101.264812	-0.157386
-0.005531	-0.158458	-1.802540	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	10.480975	8.884403	0.349427
0.005493	0.274121	51.985523	
0.57747	10.480975	8.884403	0.349427
0.005493	0.224930	53.928216	
0.71832	10.480975	8.884403	0.349427
0.005493	0.094564	66.678128	
0.85916	10.480975	8.884403	0.349427
0.005493	0.044979	95.878660	
1.00000	10.480975	8.884403	0.349427
0.005493	0.135076	142.799629	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.485534	-137.393572	-0.239513
-0.005363	-0.266726	-101.373653	
0.57747	-1.485534	-137.393572	-0.239513
-0.005363	-0.166288	-55.179066	
0.71832	-1.485534	-137.393572	-0.239513
-0.005363	-0.065855	-22.035238	
0.85916	-1.485534	-137.393572	-0.239513
-0.005363	-0.070855	-15.853189	
1.00000	-1.485534	-137.393572	-0.239513
-0.005363	-0.216270	-11.623200	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.588144	85.315832	0.787791
0.004304	0.863937	197.852864	
0.57747	9.588144	85.315832	0.787791
0.004304	0.534560	166.610926	
0.71832	9.588144	85.315832	0.787791
0.004304	0.223254	143.247586	
0.85916	9.588144	85.315832	0.787791
0.004304	0.098177	132.564368	
1.00000	9.588144	85.315832	0.787791
0.004304	0.358209	138.489052	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.985234	-117.628951	-0.637423
-0.004385	-0.711010	-97.651702	
0.57747	-9.985234	-117.628951	-0.637423
-0.004385	-0.443716	-56.487783	
0.71832	-9.985234	-117.628951	-0.637423
-0.004385	-0.176432	-25.336902	
0.85916	-9.985234	-117.628951	-0.637423
-0.004385	-0.128166	-18.728429	
1.00000	-9.985234	-117.628951	-0.637423
-0.004385	-0.457650	-13.743079	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2362

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.273982	73.628570	0.842553
0.003749	0.926901	172.054337	
0.57747	11.273982	73.628570	0.842553
0.003749	0.574403	144.968949	
0.71832	11.273982	73.628570	0.842553
0.003749	0.230896	124.480086	
0.85916	11.273982	73.628570	0.842553
0.003749	0.105358	114.556715	
1.00000	11.273982	73.628570	0.842553
0.003749	0.385384	118.502181	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.505509	-111.769942	-0.682229
-0.003664	-0.758969	-135.080116	
0.57747	-8.505509	-111.769942	-0.682229
-0.003664	-0.472931	-95.154864	
0.71832	-8.505509	-111.769942	-0.682229
-0.003664	-0.186919	-63.320391	
0.85916	-8.505509	-111.769942	-0.682229
-0.003664	-0.133881	-52.137254	
1.00000	-8.505509	-111.769942	-0.682229
-0.003664	-0.486508	-42.460358	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.239785	4.468204	0.291255
0.000215	0.324284	12.926403	
0.57747	5.239785	4.468204	0.291255
0.000215	0.202154	11.060478	
0.71832	5.239785	4.468204	0.291255
0.000215	0.080038	9.209411	
0.85916	5.239785	4.468204	0.291255
0.000215	0.038486	7.395556	
1.00000	5.239785	4.468204	0.291255
0.000215	0.141918	5.662599	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.128748	-19.522474	-0.246577
-1.19E-05	-0.271655	-83.579669	
0.57747	-0.128748	-19.522474	-0.246577
-1.19E-05	-0.168298	-75.459714	
0.71832	-0.128748	-19.522474	-0.246577
-1.19E-05	-0.064938	-67.375278	
0.85916	-0.128748	-19.522474	-0.246577
-1.19E-05	-0.042061	-59.291450	
1.00000	-0.128748	-19.522474	-0.246577
-1.19E-05	-0.164246	-51.232223	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.393247	6.159841	0.485668
0.000678	0.539207	17.812016	
0.57747	9.393247	6.159841	0.485668
0.000678	0.335606	15.387185	
0.71832	9.393247	6.159841	0.485668
0.000678	0.132579	13.657859	
0.85916	9.393247	6.159841	0.485668
0.000678	0.058700	12.648480	
1.00000	9.393247	6.159841	0.485668
0.000678	0.219010	12.460871	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.102533	-47.977831	-0.383366
-0.000311	-0.424055	-141.228725	
0.57747	-1.102533	-47.977831	-0.383366
-0.000311	-0.263302	-122.160846	
0.71832	-1.102533	-47.977831	-0.383366
-0.000311	-0.102651	-104.090987	
0.85916	-1.102533	-47.977831	-0.383366
-0.000311	-0.071725	-86.190158	
1.00000	-1.102533	-47.977831	-0.383366
-0.000311	-0.275428	-69.308081	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2363

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.573187	6.212029	0.493232
0.001109	0.547768	35.962711	
0.57747	12.573187	6.212029	0.493232
0.001109	0.341023	35.626709	
0.71832	12.573187	6.212029	0.493232
0.001109	0.137583	37.209146	
0.85916	12.573187	6.212029	0.493232
0.001109	0.060502	44.039349	
1.00000	12.573187	6.212029	0.493232
0.001109	0.224170	67.482514	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.852723	-101.741775	-0.392120
-0.000762	-0.433533	-166.874344	
0.57747	-0.852723	-101.741775	-0.392120
-0.000762	-0.269135	-125.262694	
0.71832	-0.852723	-101.741775	-0.392120
-0.000762	-0.104775	-87.033659	
0.85916	-0.852723	-101.741775	-0.392120
-0.000762	-0.073685	-73.967767	
1.00000	-0.852723	-101.741775	-0.392120
-0.000762	-0.279565	-61.906732	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.741067	57.239344	0.762512
0.004119	0.835922	151.541346	
0.57747	12.741067	57.239344	0.762512
0.004119	0.517111	131.696828	
0.71832	12.741067	57.239344	0.762512
0.004119	0.208865	119.439377	
0.85916	12.741067	57.239344	0.762512
0.004119	0.097060	119.020826	
1.00000	12.741067	57.239344	0.762512
0.004119	0.344507	132.277196	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.870838	-118.933646	-0.607500
-0.003985	-0.674466	-150.793642	
0.57747	-5.870838	-118.933646	-0.607500
-0.003985	-0.419747	-108.967752	
0.71832	-5.870838	-118.933646	-0.607500
-0.003985	-0.165063	-76.439128	
0.85916	-5.870838	-118.933646	-0.607500
-0.003985	-0.124341	-64.308444	
1.00000	-5.870838	-118.933646	-0.607500
-0.003985	-0.443344	-53.635689	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.278525	75.203389	0.844616
0.000447	0.942569	102.274108	
0.57747	0.278525	75.203389	0.844616
0.000447	0.586330	70.921611	
0.71832	0.278525	75.203389	0.844616
0.000447	0.234123	39.896226	
0.85916	0.278525	75.203389	0.844616
0.000447	0.118794	10.230057	
1.00000	0.278525	75.203389	0.844616
0.000447	0.472158	3.275372	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.316630	-7.885041	-0.841924
-0.000745	-0.940316	-20.515388	
0.57747	-11.316630	-7.885041	-0.841924
-0.000745	-0.587219	-17.385670	
0.71832	-11.316630	-7.885041	-0.841924
-0.000745	-0.233922	-14.724872	
0.85916	-11.316630	-7.885041	-0.841924
-0.000745	-0.119625	-13.255278	
1.00000	-11.316630	-7.885041	-0.841924
-0.000745	-0.473798	-33.620552	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2364

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.611183	105.231238	1.270499
0.006770	1.390868	203.963804	
0.57747	5.611183	105.231238	1.270499
0.006770	0.867313	165.767246	
0.71832	5.611183	105.231238	1.270499
0.006770	0.346629	141.053777	
0.85916	5.611183	105.231238	1.270499
0.006770	0.185886	131.181590	
1.00000	5.611183	105.231238	1.270499
0.006770	0.646935	135.661358	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.695327	-87.603482	-1.131160
-0.007141	-1.259267	-52.108709	
0.57747	-13.695327	-87.603482	-1.131160
-0.007141	-0.785948	-26.147693	
0.71832	-13.695327	-87.603482	-1.131160
-0.007141	-0.312680	-20.095924	
0.85916	-13.695327	-87.603482	-1.131160
-0.007141	-0.211134	-16.127225	
1.00000	-13.695327	-87.603482	-1.131160
-0.007141	-0.741984	-22.640313	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.312639	94.228305	1.247948
0.005210	1.374690	187.730524	
0.57747	8.312639	94.228305	1.247948
0.005210	0.854634	154.573317	
0.71832	8.312639	94.228305	1.247948
0.005210	0.342465	132.884207	
0.85916	8.312639	94.228305	1.247948
0.005210	0.173329	129.112509	
1.00000	8.312639	94.228305	1.247948
0.005210	0.617458	142.393999	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-12.595233	-112.967154	-1.088505
-0.005484	-1.214117	-85.524789	
0.57747	-12.595233	-112.967154	-1.088505
-0.005484	-0.758437	-47.436710	
0.71832	-12.595233	-112.967154	-1.088505
-0.005484	-0.302718	-24.187039	
0.85916	-12.595233	-112.967154	-1.088505
-0.005484	-0.196082	-16.076654	
1.00000	-12.595233	-112.967154	-1.088505
-0.005484	-0.718586	-20.492882	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.955560	81.490435	1.271396
0.004478	1.403224	165.073491	
0.57747	9.955560	81.490435	1.271396
0.004478	0.872779	136.198088	
0.71832	9.955560	81.490435	1.271396
0.004478	0.348815	116.870951	
0.85916	9.955560	81.490435	1.271396
0.004478	0.171606	112.391463	
1.00000	9.955560	81.490435	1.271396
0.004478	0.629111	122.070699	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.293579	-114.119349	-1.109387
-0.004583	-1.236572	-129.854270	
0.57747	-11.293579	-114.119349	-1.109387
-0.004583	-0.772006	-89.961477	
0.71832	-11.293579	-114.119349	-1.109387
-0.004583	-0.307507	-62.544042	
0.85916	-11.293579	-114.119349	-1.109387
-0.004583	-0.196606	-48.082918	
1.00000	-11.293579	-114.119349	-1.109387
-0.004583	-0.729203	-43.853488	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2365

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.208403	9.812347	0.343139
0.004638	0.364892	59.959568	
0.57747	6.208403	9.812347	0.343139
0.004638	0.224476	62.459427	
0.71832	6.208403	9.812347	0.343139
0.004638	0.084060	76.966842	
0.85916	6.208403	9.812347	0.343139
0.004638	0.047358	105.161769	
1.00000	6.208403	9.812347	0.343139
0.004638	0.122979	139.174059	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.790901	-88.894700	-0.203726
-0.004637	-0.225262	-42.117562	
0.57747	-0.790901	-88.894700	-0.203726
-0.004637	-0.140650	-14.394707	
0.71832	-0.790901	-88.894700	-0.203726
-0.004637	-0.056106	-4.548770	
0.85916	-0.790901	-88.894700	-0.203726
-0.004637	-0.069760	-3.549100	
1.00000	-0.790901	-88.894700	-0.203726
-0.004637	-0.212079	-2.507218	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.928851	9.846082	0.491459
0.004702	0.531283	58.790880	
0.57747	9.928851	9.846082	0.491459
0.004702	0.328190	61.376582	
0.71832	9.928851	9.846082	0.491459
0.004702	0.132676	75.653909	
0.85916	9.928851	9.846082	0.491459
0.004702	0.064008	108.377925	
1.00000	9.928851	9.846082	0.491459
0.004702	0.194745	149.138487	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.650833	-123.486560	-0.334509
-0.004608	-0.372402	-95.338466	
0.57747	-1.650833	-123.486560	-0.334509
-0.004608	-0.232736	-53.016001	
0.71832	-1.650833	-123.486560	-0.334509
-0.004608	-0.093483	-25.533800	
0.85916	-1.650833	-123.486560	-0.334509
-0.004608	-0.087378	-16.754894	
1.00000	-1.650833	-123.486560	-0.334509
-0.004608	-0.293160	-11.739816	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.077613	83.582448	1.038925
0.003397	1.148800	203.901542	
0.57747	9.077613	83.582448	1.038925
0.003397	0.715059	174.204579	
0.71832	9.077613	83.582448	1.038925
0.003397	0.281318	153.068244	
0.85916	9.077613	83.582448	1.038925
0.003397	0.131529	146.420637	
1.00000	9.077613	83.582448	1.038925
0.003397	0.485727	147.196875	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.503626	-106.034367	-0.859439
-0.003486	-0.959456	-96.745459	
0.57747	-9.503626	-106.034367	-0.859439
-0.003486	-0.599499	-59.239550	
0.71832	-9.503626	-106.034367	-0.859439
-0.003486	-0.239524	-32.215854	
0.85916	-9.503626	-106.034367	-0.859439
-0.003486	-0.157841	-22.568836	
1.00000	-9.503626	-106.034367	-0.859439
-0.003486	-0.593808	-16.132390	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2366

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	10.965982	73.777682	1.128833
0.002970	1.250353	182.338565	
0.57747	10.965982	73.777682	1.128833
0.002970	0.778542	155.861249	
0.71832	10.965982	73.777682	1.128833
0.002970	0.310506	136.523098	
0.85916	10.965982	73.777682	1.128833
0.002970	0.141840	129.378674	
1.00000	10.965982	73.777682	1.128833
0.002970	0.529667	128.470415	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.169204	-105.977931	-0.936062
-0.002915	-1.043619	-145.325650	
0.57747	-8.169204	-105.977931	-0.936062
-0.002915	-0.651549	-106.832381	
0.71832	-8.169204	-105.977931	-0.936062
-0.002915	-0.259121	-77.339169	
0.85916	-8.169204	-105.977931	-0.936062
-0.002915	-0.169073	-61.744543	
1.00000	-8.169204	-105.977931	-0.936062
-0.002915	-0.642834	-49.332954	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.862390	7.249373	0.433187
0.000187	0.482564	22.095339	
0.57747	5.862390	7.249373	0.433187
0.000187	0.301043	19.060665	
0.71832	5.862390	7.249373	0.433187
0.000187	0.119175	16.038496	
0.85916	5.862390	7.249373	0.433187
0.000187	0.052164	13.046073	
1.00000	5.862390	7.249373	0.433187
0.000187	0.200889	10.140191	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.208730	-25.094596	-0.353349
-9.02E-06	-0.392204	-102.136699	
0.57747	-0.208730	-25.094596	-0.353349
-9.02E-06	-0.244555	-91.686407	
0.71832	-0.208730	-25.094596	-0.353349
-9.02E-06	-0.095693	-81.261257	
0.85916	-0.208730	-25.094596	-0.353349
-9.02E-06	-0.061997	-70.871958	
1.00000	-0.208730	-25.094596	-0.353349
-9.02E-06	-0.243939	-60.558807	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.463224	9.653665	0.674175
0.000534	0.750167	29.119507	
0.57747	9.463224	9.653665	0.674175
0.000534	0.467172	25.306393	
0.71832	9.463224	9.653665	0.674175
0.000534	0.184855	21.849584	
0.85916	9.463224	9.653665	0.674175
0.000534	0.084161	18.954575	
1.00000	9.463224	9.653665	0.674175
0.000534	0.320364	17.288986	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.512989	-54.950417	-0.564529
-0.000240	-0.627013	-163.933152	
0.57747	-1.512989	-54.950417	-0.564529
-0.000240	-0.390891	-141.480113	
0.71832	-1.512989	-54.950417	-0.564529
-0.000240	-0.153797	-119.812622	
0.85916	-1.512989	-54.950417	-0.564529
-0.000240	-0.097315	-99.059107	
1.00000	-1.512989	-54.950417	-0.564529
-0.000240	-0.380204	-79.362508	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2367

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.741067	107.971691	1.006700
0.006891	1.097901	200.825475	
0.57747	12.741067	107.971691	1.006700
0.006891	0.677480	166.610926	
0.71832	12.741067	107.971691	1.006700
0.006891	0.274826	143.247586	
0.85916	12.741067	107.971691	1.006700
0.006891	0.131938	132.564368	
1.00000	12.741067	107.971691	1.006700
0.006891	0.471584	142.799629	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.110021	-99.271469	-0.567953
-0.000382	-0.632716	-178.367408	
0.57747	-1.110021	-99.271469	-0.567953
-0.000382	-0.394937	-139.618526	
0.71832	-1.110021	-99.271469	-0.567953
-0.000382	-0.156183	-103.846394	
0.85916	-1.110021	-99.271469	-0.567953
-0.000382	-0.101260	-86.393051	
1.00000	-1.110021	-99.271469	-0.567953
-0.000382	-0.408793	-71.110176	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.681413	59.140526	1.058528
0.003083	1.170364	167.556031	
0.57747	12.681413	59.140526	1.058528
0.003083	0.727946	147.470745	
0.71832	12.681413	59.140526	1.058528
0.003083	0.290929	135.032418	
0.85916	12.681413	59.140526	1.058528
0.003083	0.130561	135.048205	
1.00000	12.681413	59.140526	1.058528
0.003083	0.477832	141.224893	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.725191	-111.379178	-0.840831
-0.002961	-0.936115	-164.197627	
0.57747	-5.725191	-111.379178	-0.840831
-0.002961	-0.584332	-123.791156	
0.71832	-5.725191	-111.379178	-0.840831
-0.002961	-0.231581	-92.846334	
0.85916	-5.725191	-111.379178	-0.840831
-0.002961	-0.160774	-76.771872	
1.00000	-5.725191	-111.379178	-0.840831
-0.002961	-0.604533	-62.680592	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.741067	107.971691	1.006700
0.006891	1.097901	200.825475	
0.57747	12.741067	107.971691	1.006700
0.006891	0.677480	166.610926	
0.71832	12.741067	107.971691	1.006700
0.006891	0.274826	143.247586	
0.85916	12.741067	107.971691	1.006700
0.006891	0.131938	132.564368	
1.00000	12.741067	107.971691	1.006700
0.006891	0.471584	142.799629	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.911102	-137.393572	-0.841646
-0.007283	-0.940146	-166.874344	
0.57747	-13.911102	-137.393572	-0.841646
-0.007283	-0.587216	-125.262694	
0.71832	-13.911102	-137.393572	-0.841646
-0.007283	-0.234264	-104.090987	
0.85916	-13.911102	-137.393572	-0.841646
-0.007283	-0.117037	-86.190158	
1.00000	-13.911102	-137.393572	-0.841646
-0.007283	-0.591026	-69.308081	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2368

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.681413	105.231238	1.271396
0.006770	1.403224	203.963804	
0.57747	12.681413	105.231238	1.271396
0.006770	0.872779	174.204579	
0.71832	12.681413	105.231238	1.271396
0.006770	0.348815	153.068244	
0.85916	12.681413	105.231238	1.271396
0.006770	0.185886	146.420637	
1.00000	12.681413	105.231238	1.271396
0.006770	0.646935	149.138487	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.695327	-123.486560	-1.131160
-0.007141	-1.259267	-178.367408	
0.57747	-13.695327	-123.486560	-1.131160
-0.007141	-0.785948	-141.480113	
0.71832	-13.695327	-123.486560	-1.131160
-0.007141	-0.312680	-119.812622	
0.85916	-13.695327	-123.486560	-1.131160
-0.007141	-0.211134	-99.059107	
1.00000	-13.695327	-123.486560	-1.131160
-0.007141	-0.741984	-79.362508	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.741067	107.971691	1.271396
0.006891	1.403224	203.963804	
0.57747	12.741067	107.971691	1.271396
0.006891	0.872779	174.204579	
0.71832	12.741067	107.971691	1.271396
0.006891	0.348815	153.068244	
0.85916	12.741067	107.971691	1.271396
0.006891	0.185886	146.420637	
1.00000	12.741067	107.971691	1.271396
0.006891	0.646935	149.138487	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.911102	-137.393572	-1.131160
-0.007283	-1.259267	-178.367408	
0.57747	-13.911102	-137.393572	-1.131160
-0.007283	-0.785948	-141.480113	
0.71832	-13.911102	-137.393572	-1.131160
-0.007283	-0.312680	-119.812622	
0.85916	-13.911102	-137.393572	-1.131160
-0.007283	-0.211134	-99.059107	
1.00000	-13.911102	-137.393572	-1.131160
-0.007283	-0.741984	-79.362508	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.741067	107.971691	1.271396
0.006891	1.403224	203.963804	
0.57747	12.741067	107.971691	1.271396
0.006891	0.872779	174.204579	
0.71832	12.741067	107.971691	1.271396
0.006891	0.348815	153.068244	
0.85916	12.741067	107.971691	1.271396
0.006891	0.185886	146.420637	
1.00000	12.741067	107.971691	1.271396
0.006891	0.646935	149.138487	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.911102	-137.393572	-1.131160
-0.007283	-1.259267	-178.367408	
0.57747	-13.911102	-137.393572	-1.131160
-0.007283	-0.785948	-141.480113	
0.71832	-13.911102	-137.393572	-1.131160
-0.007283	-0.312680	-119.812622	
0.85916	-13.911102	-137.393572	-1.131160
-0.007283	-0.211134	-99.059107	
1.00000	-13.911102	-137.393572	-1.131160
-0.007283	-0.741984	-79.362508	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2369

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 213 ========== LENGTH = 2.977387

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.184199	75.553358	0.650434
0.000376	0.362241	2.608488	
0.14084	0.184199	75.553358	0.650434
0.000376	0.089667	3.092848	
0.28169	0.184199	75.553358	0.650434
0.000376	0.171688	3.596800	
0.42253	0.184199	75.553358	0.650434
0.000376	0.432364	4.724199	
0.56338	0.184199	75.553358	0.650434
0.000376	0.693039	6.824612	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.985269	-5.548136	-0.621621
-0.000821	-0.349661	-23.548863	
0.14084	-10.985269	-5.548136	-0.621621
-0.000821	-0.088946	-54.892547	
0.28169	-10.985269	-5.548136	-0.621621
-0.000821	-0.183394	-86.483161	
0.42253	-10.985269	-5.548136	-0.621621
-0.000821	-0.456034	-118.081350	
0.56338	-10.985269	-5.548136	-0.621621
-0.000821	-0.728790	-149.708225	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.035606	173.494206	0.975634
0.000670	0.570104	126.253261	
0.14084	2.035606	173.494206	0.975634
0.000670	0.162424	101.097956	
0.28169	2.035606	173.494206	0.975634
0.000670	0.235313	76.167565	
0.42253	2.035606	173.494206	0.975634
0.000670	0.590952	69.808624	
0.56338	2.035606	173.494206	0.975634
0.000670	0.946569	76.320286	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.124892	-27.162736	-0.848035
-0.007284	-0.475939	-10.655291	
0.14084	-18.124892	-27.162736	-0.848035
-0.007284	-0.135659	-50.572301	
0.28169	-18.124892	-27.162736	-0.848035
-0.007284	-0.271082	-90.738503	
0.42253	-18.124892	-27.162736	-0.848035
-0.007284	-0.659416	-132.229369	
0.56338	-18.124892	-27.162736	-0.848035
-0.007284	-1.067020	-195.577347	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.475777	141.508470	0.943758
0.004793	0.545496	126.399631	
0.14084	6.475777	141.508470	0.943758
0.004793	0.150760	133.178498	
0.28169	6.475777	141.508470	0.943758
0.004793	0.223907	139.981140	
0.42253	6.475777	141.508470	0.943758
0.004793	0.563414	159.711143	
0.56338	6.475777	141.508470	0.943758
0.004793	0.902935	188.252780	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.620411	-76.283342	-0.809611
-0.005321	-0.455094	-91.115673	
0.14084	-15.620411	-76.283342	-0.809611
-0.005321	-0.126060	-46.387174	
0.28169	-15.620411	-76.283342	-0.809611
-0.005321	-0.261668	-83.410204	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2370

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42253	-15.620411	-76.283342	-0.809611
-0.005321	-0.643242	-121.277629	
0.56338	-15.620411	-76.283342	-0.809611
-0.005321	-1.037966	-173.992450	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.722395	119.704003	0.962599
0.004385	0.553295	104.218507	
0.14084	8.722395	119.704003	0.962599
0.004385	0.150462	112.172797	
0.28169	8.722395	119.704003	0.962599
0.004385	0.221962	119.740983	
0.42253	8.722395	119.704003	0.962599
0.004385	0.559252	138.976518	
0.56338	8.722395	119.704003	0.962599
0.004385	0.896532	168.224815	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.662554	-81.441951	-0.804322
-0.004640	-0.452604	-32.947298	
0.14084	-13.662554	-81.441951	-0.804322
-0.004640	-0.124001	-56.958251	
0.28169	-13.662554	-81.441951	-0.804322
-0.004640	-0.267025	-81.758329	
0.42253	-13.662554	-81.441951	-0.804322
-0.004640	-0.658916	-108.385987	
0.56338	-13.662554	-81.441951	-0.804322
-0.004640	-1.061717	-148.110820	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.756656	64.816940	0.270155
0.005187	0.173668	137.268728	
0.14084	3.756656	64.816940	0.270155
0.005187	0.061400	129.638861	
0.28169	3.756656	64.816940	0.270155
0.005187	0.043561	122.171031	
0.42253	3.756656	64.816940	0.270155
0.005187	0.108254	129.177674	
0.56338	3.756656	64.816940	0.270155
0.005187	0.172957	146.597106	

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.348491 -50.552338 -0.154233
-0.005260 -0.085733 -1.797565
0.14084 -4.348491 -50.552338 -0.154233
-0.005260 -0.033899 -1.217613
0.28169 -4.348491 -50.552338 -0.154233
-0.005260 -0.072029 -0.772005
0.42253 -4.348491 -50.552338 -0.154233
-0.005260 -0.168014 -1.402329
0.56338 -4.348491 -50.552338 -0.154233
-0.005260 -0.280014 -20.317189

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.661215 60.639565 0.374941
0.005202 0.231619 143.052162
0.14084 8.661215 60.639565 0.374941
0.005202 0.075341 149.752373
0.28169 8.661215 60.639565 0.374941
0.005202 0.066257 159.842599
0.42253 8.661215 60.639565 0.374941
0.005202 0.167604 184.314141
0.56338 8.661215 60.639565 0.374941
0.005202 0.268932 218.842752

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.811114 -90.751172 -0.241670
-0.005214 -0.136405 -11.624168
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2371

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 -4.811114 -90.751172 -0.241670
-0.005214 -0.047039 -7.447803
0.28169 -4.811114 -90.751172 -0.241670
-0.005214 -0.100618 -4.309330
0.42253 -4.811114 -90.751172 -0.241670
-0.005214 -0.241758 -3.690325
0.56338 -4.811114 -90.751172 -0.241670
-0.005214 -0.397800 -20.902852

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.333642 121.133821 0.790732
0.004145 0.457118 138.622174
0.14084 8.333642 121.133821 0.790732
0.004145 0.126391 129.670758
0.28169 8.333642 121.133821 0.790732
0.004145 0.177272 141.749929
0.42253 8.333642 121.133821 0.790732
0.004145 0.446104 166.357544
0.56338 8.333642 121.133821 0.790732
0.004145 0.714924 198.865288

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.269162 -84.855321 -0.641073
-0.004462 -0.360372 -13.736098
0.14084 -12.269162 -84.855321 -0.641073
-0.004462 -0.099965 -15.253074
0.28169 -12.269162 -84.855321 -0.641073
-0.004462 -0.218782 -45.136750
0.42253 -12.269162 -84.855321 -0.641073
-0.004462 -0.538853 -77.080618
0.56338 -12.269162 -84.855321 -0.641073
-0.004462 -0.869603 -121.824435

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.262442 103.646558 0.842481
0.003831 0.484355 118.619024
0.14084 10.262442 103.646558 0.842481
0.003831 0.131757 110.126129
0.28169 10.262442 103.646558 0.842481
0.003831 0.186338 118.757986
0.42253 10.262442 103.646558 0.842481
0.003831 0.468629 138.242283
0.56338 10.262442 103.646558 0.842481
0.003831 0.750913 165.513460

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.421065 -84.432990 -0.673196
-0.003864 -0.376275 -42.468255
0.14084 -10.421065 -84.432990 -0.673196
-0.003864 -0.103085 -38.158416
0.28169 -10.421065 -84.432990 -0.673196
-0.003864 -0.232881 -57.326038
0.42253 -10.421065 -84.432990 -0.673196
-0.003864 -0.576521 -77.980873
0.56338 -10.421065 -84.432990 -0.673196
-0.003864 -0.929108 -109.209182

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.297191 4.553760 0.292917
0.000556 0.165188 5.670541
0.14084 5.297191 4.553760 0.292917
0.000556 0.042261 4.065928
0.28169 5.297191 4.553760 0.292917
0.000556 0.062624 2.654084
0.42253 5.297191 4.553760 0.292917
0.000556 0.159449 2.250777
0.56338 5.297191 4.553760 0.292917
0.000556 0.250482 1.973377
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2372

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.128433 -19.625231 -0.224028
-0.000152 -0.125300 -51.252783
0.14084 -0.128433 -19.625231 -0.224028
-0.000152 -0.031286 -43.350281
0.28169 -0.128433 -19.625231 -0.224028
-0.000152 -0.080524 -35.545001
0.42253 -0.128433 -19.625231 -0.224028
-0.000152 -0.203331 -27.776236
0.56338 -0.128433 -19.625231 -0.224028
-0.000152 -0.326159 -20.033506

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.424863 8.318611 0.480881
0.001241 0.271082 12.480474
0.14084 9.424863 8.318611 0.480881
0.001241 0.069398 13.055823
0.28169 9.424863 8.318611 0.480881
0.001241 0.100483 18.544961
0.42253 9.424863 8.318611 0.480881
0.001241 0.253615 26.811648
0.56338 9.424863 8.318611 0.480881
0.001241 0.406772 36.061056

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.233644 -46.614365 -0.365218
-0.000694 -0.205839 -69.344277
0.14084 -1.233644 -46.614365 -0.365218
-0.000694 -0.053138 -55.197445
0.28169 -1.233644 -46.614365 -0.365218
-0.000694 -0.133014 -42.468237
0.42253 -1.233644 -46.614365 -0.365218
-0.000694 -0.334002 -31.676206
0.56338 -1.233644 -46.614365 -0.365218
-0.000694 -0.535606 -22.628986

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.650690 9.625304 0.524263
0.001213 0.297410 67.470578
0.14084 12.650690 9.625304 0.524263
0.001213 0.077580 93.121470
0.28169 12.650690 9.625304 0.524263
0.001213 0.102829 121.704728
0.42253 12.650690 9.625304 0.524263
0.001213 0.259173 152.942470
0.56338 12.650690 9.625304 0.524263
0.001213 0.415524 185.243353

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.047238 -99.804269 -0.372857
-0.000771 -0.209871 -61.929971
0.14084 -1.047238 -99.804269 -0.372857
-0.000771 -0.054260 -50.089189
0.28169 -1.047238 -99.804269 -0.372857
-0.000771 -0.143468 -39.025505
0.42253 -1.047238 -99.804269 -0.372857
-0.000771 -0.362264 -29.335081
0.56338 -1.047238 -99.804269 -0.372857
-0.000771 -0.582034 -21.475831

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.527033 92.989163 0.770963
0.004365 0.447263 132.436997
0.14084 11.527033 92.989163 0.770963
0.004365 0.124721 120.744098
0.28169 11.527033 92.989163 0.770963
0.004365 0.163598 124.672009
0.42253 11.527033 92.989163 0.770963
0.004365 0.410876 141.522579
0.56338 11.527033 92.989163 0.770963
0.004365 0.658149 166.218305
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2373

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.154882 -86.467576 -0.589682
-0.004211 -0.330954 -53.649394
0.14084 -8.154882 -86.467576 -0.589682
-0.004211 -0.092019 -42.971831
0.28169 -8.154882 -86.467576 -0.589682
-0.004211 -0.211908 -47.888662
0.42253 -8.154882 -86.467576 -0.589682
-0.004211 -0.523823 -59.916193
0.56338 -8.154882 -86.467576 -0.589682
-0.004211 -0.846292 -84.424575

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.286052 74.755782 0.841365
0.000306 0.472087 3.268923
0.14084 0.286052 74.755782 0.841365
0.000306 0.119391 3.571968
0.28169 0.286052 74.755782 0.841365
0.000306 0.235130 3.915179
0.42253 0.286052 74.755782 0.841365
0.000306 0.591838 4.740857
0.56338 0.286052 74.755782 0.841365
0.000306 0.948806 7.222436

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.280530 -7.893815 -0.851170
-0.000729 -0.478762 -33.648984
0.14084 -11.280530 -7.893815 -0.851170
-0.000729 -0.121845 -62.595115
0.28169 -11.280530 -7.893815 -0.851170
-0.000729 -0.233066 -91.550197
0.42253 -11.280530 -7.893815 -0.851170
-0.000729 -0.585883 -120.691379
0.56338 -11.280530 -7.893815 -0.851170
-0.000729 -0.938747 -151.113337

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.609924 168.206059 1.261059
0.006613 0.735982 135.693351
0.14084 2.609924 168.206059 1.261059
0.006613 0.208891 109.264689
0.28169 2.609924 168.206059 1.261059
0.006613 0.314024 83.091206
0.42253 2.609924 168.206059 1.261059
0.006613 0.789074 73.727885
0.56338 2.609924 168.206059 1.261059
0.006613 1.263879 80.641805

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.648226 -28.099232 -1.135660
-0.007185 -0.652708 -22.665720
0.14084 -17.648226 -28.099232 -1.135660
-0.007185 -0.189905 -57.598998
0.28169 -17.648226 -28.099232 -1.135660
-0.007185 -0.346062 -92.767859
0.42253 -17.648226 -28.099232 -1.135660
-0.007185 -0.856969 -129.787153
0.56338 -17.648226 -28.099232 -1.135660
-0.007185 -1.381220 -195.641203

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.251100 138.781184 1.254044
0.004931 0.723254 142.389712
0.14084 6.251100 138.781184 1.254044
0.004931 0.197816 144.285932
0.28169 6.251100 138.781184 1.254044
0.004931 0.305702 146.401647
0.42253 6.251100 138.781184 1.254044
0.004931 0.770032 160.559071
0.56338 6.251100 138.781184 1.254044
0.004931 1.234116 186.643978
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2374

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.369209 -71.181491 -1.108801
-0.005419 -0.633340 -20.516678
0.14084 -15.369209 -71.181491 -1.108801
-0.005419 -0.177594 -52.730423
0.28169 -15.369209 -71.181491 -1.108801
-0.005419 -0.343394 -85.085860
0.42253 -15.369209 -71.181491 -1.108801
-0.005419 -0.857336 -118.799020
0.56338 -15.369209 -71.181491 -1.108801
-0.005419 -1.380062 -173.284747

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.273409 118.481991 1.275102
0.004417 0.731522 122.075838
0.14084 8.273409 118.481991 1.275102
0.004417 0.197136 122.690856
0.28169 8.273409 118.481991 1.275102
0.004417 0.309912 125.801317
0.42253 8.273409 118.481991 1.275102
0.004417 0.780087 139.679369
0.56338 8.273409 118.481991 1.275102
0.004417 1.250247 167.018344

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.592348 -79.635022 -1.122855
-0.004672 -0.639546 -43.893600
0.14084 -13.592348 -79.635022 -1.122855
-0.004672 -0.176503 -62.983753
0.28169 -13.592348 -79.635022 -1.122855
-0.004672 -0.350087 -83.530765
0.42253 -13.592348 -79.635022 -1.122855
-0.004672 -0.874769 -105.778860
0.56338 -13.592348 -79.635022 -1.122855
-0.004672 -1.406926 -147.980883

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.152767 54.448233 0.347030
0.004376 0.214668 139.177343
0.14084 4.152767 54.448233 0.347030
0.004376 0.070029 134.350833
0.28169 4.152767 54.448233 0.347030
0.004376 0.056380 129.608594
0.42253 4.152767 54.448233 0.347030
0.004376 0.140044 136.244654
0.56338 4.152767 54.448233 0.347030
0.004376 0.223620 153.216729

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.589923 -47.657569 -0.201607
-0.004454 -0.123020 -2.499044
0.14084 -3.589923 -47.657569 -0.201607
-0.004454 -0.047699 -1.553724
0.28169 -3.589923 -47.657569 -0.201607
-0.004454 -0.093928 -0.769353
0.42253 -3.589923 -47.657569 -0.201607
-0.004454 -0.227002 -1.180047
0.56338 -3.589923 -47.657569 -0.201607
-0.004454 -0.369147 -20.847505

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.008213 52.438426 0.506328
0.004508 0.302571 149.134665
0.14084 8.008213 52.438426 0.506328
0.004508 0.090752 156.334347
0.28169 8.008213 52.438426 0.506328
0.004508 0.095418 167.076533
0.42253 8.008213 52.438426 0.506328
0.004508 0.239548 189.192831
0.56338 8.008213 52.438426 0.506328
0.004508 0.383707 221.519151
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2375

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.302554 -84.399821 -0.345700
-0.004533 -0.203832 -11.740423
0.14084 -4.302554 -84.399821 -0.345700
-0.004533 -0.067955 -7.132442
0.28169 -4.302554 -84.399821 -0.345700
-0.004533 -0.136403 -4.654621
0.42253 -4.302554 -84.399821 -0.345700
-0.004533 -0.337542 -3.726723
0.56338 -4.302554 -84.399821 -0.345700
-0.004533 -0.547019 -21.908243

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.864516 110.449350 1.051139
0.003315 0.601032 147.198758
0.14084 7.864516 110.449350 1.051139
0.003315 0.160294 135.339350
0.28169 7.864516 110.449350 1.051139
0.003315 0.241969 147.297363
0.42253 7.864516 110.449350 1.051139
0.003315 0.708938 172.589990
0.56338 7.864516 110.449350 1.051139
0.003315 0.976054 200.834305

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.166462 -80.890312 -0.876207
-0.003620 -0.498413 -16.115214
0.14084 -11.166462 -80.890312 -0.876207
-0.003620 -0.136444 -15.178144
0.28169 -11.166462 -80.890312 -0.876207
-0.003620 -0.286767 -40.804639
0.42253 -11.166462 -80.890312 -0.876207
-0.003620 -0.722729 -69.758098
0.56338 -11.166462 -80.890312 -0.876207
-0.003620 -1.161600 -112.548292

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.977358 96.363464 1.138386
0.003092 0.648289 128.433395
0.14084 9.977358 96.363464 1.138386
0.003092 0.170440 116.868825
0.28169 9.977358 96.363464 1.138386
0.003092 0.260857 124.431910
0.42253 9.977358 96.363464 1.138386
0.003092 0.656794 141.142469
0.56338 9.977358 96.363464 1.138386
0.003092 1.052327 166.722836

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.561487 -84.979274 -0.944383
-0.003148 -0.535568 -49.340855
0.14084 -9.561487 -84.979274 -0.944383
-0.003148 -0.144032 -41.392969
0.28169 -9.561487 -84.979274 -0.944383
-0.003148 -0.312899 -55.162236
0.42253 -9.561487 -84.979274 -0.944383
-0.003148 -0.784749 -71.754332
0.56338 -9.561487 -84.979274 -0.944383
-0.003148 -1.260569 -101.236770

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.905674 7.315703 0.434288
0.000477 0.244034 10.156783
0.14084 5.905674 7.315703 0.434288
0.000477 0.061886 7.421250
0.28169 5.905674 7.315703 0.434288
0.000477 0.094802 4.813634
0.42253 5.905674 7.315703 0.434288
0.000477 0.238985 2.677038
0.56338 5.905674 7.315703 0.434288
0.000477 0.381966 2.186651
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2376

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.201491 -25.252496 -0.342136
-0.000155 -0.192531 -60.588281
0.14084 -0.201491 -25.252496 -0.342136
-0.000155 -0.048482 -50.329005
0.28169 -0.201491 -25.252496 -0.342136
-0.000155 -0.119931 -40.166551
0.42253 -0.201491 -25.252496 -0.342136
-0.000155 -0.302262 -30.179899
0.56338 -0.201491 -25.252496 -0.342136
-0.000155 -0.484450 -21.792316

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.477353 11.013225 0.672052
0.001008 0.377393 17.313240
0.14084 9.477353 11.013225 0.672052
0.001008 0.095534 16.979112
0.28169 9.477353 11.013225 0.672052
0.001008 0.153403 21.887917
0.42253 9.477353 11.013225 0.672052
0.001008 0.386141 28.671673
0.56338 9.477353 11.013225 0.672052
0.001008 0.617923 38.152643

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.580399 -54.227935 -0.554002
-0.000555 -0.312178 -79.411285
0.14084 -1.580399 -54.227935 -0.554002
-0.000555 -0.080064 -61.769081
0.28169 -1.580399 -54.227935 -0.554002
-0.000555 -0.185808 -47.369500
0.42253 -1.580399 -54.227935 -0.554002
-0.000555 -0.467448 -33.976863
0.56338 -1.580399 -54.227935 -0.554002
-0.000555 -0.749423 -24.021191

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.371567 9.106268 0.754842
0.000781 0.422677 79.280606
0.14084 12.371567 9.106268 0.754842
0.000781 0.105603 102.062606
0.28169 12.371567 9.106268 0.754842
0.000781 0.157124 128.559186
0.42253 12.371567 9.106268 0.754842
0.000781 0.396502 156.350184
0.56338 12.371567 9.106268 0.754842
0.000781 0.634956 186.208434

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.077687 -100.305068 -0.569250
-0.000421 -0.320079 -71.139225
0.14084 -1.077687 -100.305068 -0.569250
-0.000421 -0.080831 -56.125797
0.28169 -1.077687 -100.305068 -0.569250
-0.000421 -0.207287 -43.291688
0.42253 -1.077687 -100.305068 -0.569250
-0.000421 -0.524744 -31.274175
0.56338 -1.077687 -100.305068 -0.569250
-0.000421 -0.841672 -21.659837

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.607433 83.792922 1.070462
0.003320 0.610882 141.201243
0.14084 11.607433 83.792922 1.070462
0.003320 0.162386 129.201581
0.28169 11.607433 83.792922 1.070462
0.003320 0.232506 132.724419
0.42253 11.607433 83.792922 1.070462
0.003320 0.585274 147.793100
0.56338 11.607433 83.792922 1.070462
0.003320 0.937028 171.722248
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2377

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.245557 -88.614269 -0.840852
-0.003215 -0.478142 -62.693724
0.14084 -7.245557 -88.614269 -0.840852
-0.003215 -0.130363 -48.906992
0.28169 -7.245557 -88.614269 -0.840852
-0.003215 -0.294092 -49.170666
0.42253 -7.245557 -88.614269 -0.840852
-0.003215 -0.736859 -56.751203
0.56338 -7.245557 -88.614269 -0.840852
-0.003215 -1.184066 -78.321619

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.650690 173.494206 0.975634
0.006670 0.570104 143.052162
0.14084 12.650690 173.494206 0.975634
0.006670 0.162424 149.752373
0.28169 12.650690 173.494206 0.975634
0.006670 0.235313 159.842599
0.42253 12.650690 173.494206 0.975634
0.006670 0.590952 184.314141
0.56338 12.650690 173.494206 0.975634
0.006670 0.946569 218.842752

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.124892 -99.804269 -0.848035
-0.007284 -0.475939 -69.344277
0.14084 -18.124892 -99.804269 -0.848035
-0.007284 -0.135659 -56.958251

```
 0.28169   -18.124892   -99.804269    -0.848035
-0.007284   -0.271082   -90.738503
 0.42253   -18.124892   -99.804269    -0.848035
-0.007284   -0.659416  -132.229369
 0.56338   -18.124892   -99.804269    -0.848035
-0.007284   -1.067020  -195.577347

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   12.371567  168.206059    1.275102
 0.006613   0.735982  149.134665
 0.14084   12.371567  168.206059    1.275102
 0.006613   0.208891  156.334347
 0.28169   12.371567  168.206059    1.275102
 0.006613   0.314024  167.076533
 0.42253   12.371567  168.206059    1.275102
 0.006613   0.789074  189.192831
 0.56338   12.371567  168.206059    1.275102
 0.006613   1.263879  221.519151

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -17.648226 -100.305068   -1.135660
-0.007185   -0.652708   -79.411285
 0.14084   -17.648226 -100.305068   -1.135660
-0.007185   -0.189905   -62.983753
 0.28169   -17.648226 -100.305068   -1.135660
-0.007185   -0.350087   -92.767859
 0.42253   -17.648226 -100.305068   -1.135660
-0.007185   -0.874769  -129.787153
 0.56338   -17.648226 -100.305068   -1.135660
-0.007185   -1.406926  -195.641203

COMB       CAR ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   12.650690  173.494206    1.275102
 0.006670   0.735982  149.134665
 0.14084   12.650690  173.494206    1.275102
 0.006670   0.208891  156.334347
 0.28169   12.650690  173.494206    1.275102
 0.006670   0.314024  167.076533
 0.42253   12.650690  173.494206    1.275102
 0.006670   0.789074  189.192831
 0.56338   12.650690  173.494206    1.275102
 0.006670   1.263879  221.519151
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                      2378

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       CAR ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -18.124892 -100.305068   -1.135660
-0.007284   -0.652708   -79.411285
 0.14084   -18.124892 -100.305068   -1.135660
-0.007284   -0.189905   -62.983753
 0.28169   -18.124892 -100.305068   -1.135660
-0.007284   -0.350087   -92.767859
 0.42253   -18.124892 -100.305068   -1.135660
-0.007284   -0.874769  -132.229369
 0.56338   -18.124892 -100.305068   -1.135660
-0.007284   -1.406926  -195.641203

COMB     DESIGN ----------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   12.650690  173.494206    1.275102
 0.006670   0.735982  149.134665
 0.14084   12.650690  173.494206    1.275102
 0.006670   0.208891  156.334347
 0.28169   12.650690  173.494206    1.275102
 0.006670   0.314024  167.076533
 0.42253   12.650690  173.494206    1.275102
 0.006670   0.789074  189.192831
 0.56338   12.650690  173.494206    1.275102
 0.006670   1.263879  221.519151

COMB     DESIGN ----------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -18.124892 -100.305068   -1.135660
-0.007284   -0.652708   -79.411285
 0.14084   -18.124892 -100.305068   -1.135660
-0.007284   -0.189905   -62.983753
 0.28169   -18.124892 -100.305068   -1.135660
-0.007284   -0.350087   -92.767859
 0.42253   -18.124892 -100.305068   -1.135660
-0.007284   -0.874769  -132.229369
 0.56338   -18.124892 -100.305068   -1.135660
-0.007284   -1.406926  -195.641203

ELEM      214 ================= LENGTH
=     2.977350

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    0.558898   73.653781    0.750334
 0.000156   0.838553  101.251998
 0.57747    0.558898   73.653781    0.750334
 0.000156   0.523916   70.421644
 0.71831    0.558898   73.653781    0.750334
 0.000156   0.209346   39.670593
 0.85916    0.558898   73.653781    0.750334
 0.000156   0.087853    9.197264
 1.00000    0.558898   73.653781    0.750334
 0.000156   0.352063    2.697952

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -10.427908   -9.895896   -0.629935
-0.001208   -0.704559   -21.252676
 0.57747   -10.427908   -9.895896   -0.629935
-0.001208   -0.440403   -17.237120
 0.71831   -10.427908   -9.895896   -0.629935
-0.001208   -0.176248   -13.599866
 0.85916   -10.427908   -9.895896   -0.629935
-0.001208   -0.105488   -10.184935
 1.00000   -10.427908   -9.895896   -0.629935
-0.001208   -0.420024   -23.559012

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    5.131009  104.885744    1.163990
 0.006313   1.276650  194.304719
 0.57747    5.131009  104.885744    1.163990
 0.006313   0.793014  153.299893
 0.71831    5.131009  104.885744    1.163990
 0.006313   0.321166  126.808220
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                      2379

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.85916    5.131009  104.885744    1.163990
 0.006313   0.132900  117.320029
 1.00000    5.131009  104.885744    1.163990
 0.006313   0.491492  122.579336

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -13.163697  -93.632043   -0.879154
-0.007678   -0.983152   -50.854058
 0.57747   -13.163697  -93.632043   -0.879154
-0.007678   -0.614491   -26.299155
 0.71831   -13.163697  -93.632043   -0.879154
-0.007678   -0.245810   -19.228415
 0.85916   -13.163697  -93.632043   -0.879154
-0.007678   -0.189300   -14.321987
 1.00000   -13.163697  -93.632043   -0.879154
-0.007678   -0.676010   -11.836626

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    8.548420   94.620677    1.209126
 0.004763   1.339528  184.800148
 0.57747    8.548420   94.620677    1.209126
 0.004763   0.835618  148.273367
 0.71831    8.548420   94.620677    1.209126
 0.004763   0.339904  122.292413
 0.85916    8.548420   94.620677    1.209126
 0.004763   0.120469  110.078341
 1.00000    8.548420   94.620677    1.209126
 0.004763   0.455654  120.742339

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -12.178829 -121.607152   -0.816101
-0.005678   -0.913201   -96.496844
 0.57747   -12.178829 -121.607152   -0.816101
-0.005678   -0.570943   -55.024310
 0.71831   -12.178829 -121.607152   -0.816101
-0.005678   -0.226700   -23.921808
 0.85916   -12.178829 -121.607152   -0.816101
-0.005678   -0.183187   -14.342215
 1.00000   -12.178829 -121.607152   -0.816101
-0.005678   -0.688819   -11.414385

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   10.152545  82.606769    1.164072
 0.004300   1.290197  162.990851
 0.57747   10.152545  82.606769    1.164072
 0.004300   0.804634  130.984617
 0.71831   10.152545  82.606769    1.164072
 0.004300   0.325877  107.775396
 0.85916   10.152545  82.606769    1.164072
 0.004300   0.113955  95.980866
 1.00000   10.152545  82.606769    1.164072
 0.004300   0.433231  103.284190

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -10.682443 -117.587306   -0.774778
-0.004716   -0.866323  -129.133333
 0.57747   -10.682443 -117.587306   -0.774778
-0.004716   -0.541429   -88.018780
 0.71831   -10.682443 -117.587306   -0.774778
-0.004716   -0.216542   -55.935393
 0.85916   -10.682443 -117.587306   -0.774778
-0.004716   -0.175535   -42.098818
 1.00000   -10.682443 -117.587306   -0.774778
-0.004716   -0.662558   -33.373001

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    5.948820   9.315902    0.374881
 0.005504   0.400558  50.993197
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                      2380

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.57747    5.948820   9.315902    0.374881
 0.005504   0.247117  50.541038
 0.71831    5.948820   9.315902    0.374881
 0.005504   0.103591  62.656326
 0.85916    5.948820   9.315902    0.374881
 0.005504   0.033705  91.600337
 1.00000    5.948820   9.315902    0.374881
 0.005504   0.101706  132.151331

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -0.800829 -101.563022   -0.182306
-0.005499   -0.204077   -45.413044
 0.57747   -0.800829 -101.563022   -0.182306
-0.005499   -0.127619   -15.334093
 0.71831   -0.800829 -101.563022   -0.182306
-0.005499   -0.051141    -3.891533
 0.85916   -0.800829 -101.563022   -0.182306
-0.005499   -0.072415    -3.076303
 1.00000   -0.800829 -101.563022   -0.182306
-0.005499   -0.228304    -2.344157

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   10.482421   9.880240    0.538636
 0.005603   0.587715  55.252952
 0.57747   10.482421   9.880240    0.538636
 0.005603   0.365335  54.688802
 0.71831   10.482421   9.880240    0.538636
 0.005603   0.152353  66.187332
 0.85916   10.482421   9.880240    0.538636
 0.005603   0.038312  93.354589
 1.00000   10.482421   9.880240    0.538636
 0.005603   0.123888  136.685527

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -1.395414 -136.842285   -0.222646
-0.005157   -0.249540 -106.287374
 0.57747   -1.395414 -136.842285   -0.222646
-0.005157   -0.156177   -60.107734
 0.71831   -1.395414 -136.842285   -0.222646
-0.005157   -0.062787   -26.241194
 0.85916   -1.395414 -136.842285   -0.222646
-0.005157   -0.091517   -16.690493
 1.00000   -1.395414 -136.842285   -0.222646
-0.005157   -0.315864   -12.950311

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    9.524834  84.140547    1.023269
 0.004120   1.134365  195.445122
 0.57747    9.524834  84.140547    1.023269
 0.004120   0.707779  163.043301
 0.71831    9.524834  84.140547    1.023269
 0.004120   0.287924  139.441891
 0.85916    9.524834  84.140547    1.023269
 0.004120   0.094397  127.815465
 1.00000    9.524834  84.140547    1.023269
 0.004120   0.356877  131.447494

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -9.454090 -120.120729   -0.638932
-0.004431   -0.714818 -108.170250
 0.57747   -9.454090 -120.120729   -0.638932
-0.004431   -0.446907   -65.828499
 0.71831   -9.454090 -120.120729   -0.638932
-0.004431   -0.178931   -32.576807
 0.85916   -9.454090 -120.120729   -0.638932
-0.004431   -0.154291   -21.892157
 1.00000   -9.454090 -120.120729   -0.638932
-0.004431   -0.582120   -16.173394
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                      2381

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   10.890307  74.753459    1.015641
 0.003774   1.126770  174.864182
 0.57747   10.890307  74.753459    1.015641
 0.003774   0.702987  145.915759
 0.71831   10.890307  74.753459    1.015641
 0.003774   0.284825  124.330200
 0.85916   10.890307  74.753459    1.015641
 0.003774   0.093632  112.748040
 1.00000   10.890307  74.753459    1.015641
 0.003774   0.354239  113.838021

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -8.143414 -112.611420   -0.632324
-0.003708   -0.706421 -139.249895
 0.57747   -8.143414 -112.611420   -0.632324
-0.003708   -0.441263   -98.783275
 0.71831   -8.143414 -112.611420   -0.632324
-0.003708   -0.176065   -65.875304
 0.85916   -8.143414 -112.611420   -0.632324
-0.003708   -0.152028   -51.662848
 1.00000   -8.143414 -112.611420   -0.632324
-0.003708   -0.576891   -41.958475

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    4.663158   7.933832    0.257239
 0.000501   0.286709  21.148663
 0.57747    4.663158   7.933832    0.257239
 0.000501   0.178844  17.832423
 0.71831    4.663158   7.933832    0.257239
 0.000501   0.070978  14.536126
 0.85916    4.663158   7.933832    0.257239
 0.000501   0.025117  11.305314
 1.00000    4.663158   7.933832    0.257239
 0.000501   0.094736   8.128165

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -0.332511  -17.692152   -0.166208
-7.00E-06   -0.184052   -75.099264
 0.57747   -0.332511  -17.692152   -0.166208
-7.00E-06   -0.114356   -67.878187
 0.71831   -0.332511  -17.692152   -0.166208
-7.00E-06   -0.044654   -60.679517
 0.85916   -0.332511  -17.692152   -0.166208
-7.00E-06   -0.036854   -53.502757
 1.00000   -0.332511  -17.692152   -0.166208
-7.00E-06   -0.144771   -46.408163

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    8.618922  11.282643    0.430399
 0.001113   0.478163  28.988012
 0.57747    8.618922  11.282643    0.430399
 0.001113   0.297825  24.617946
 0.71831    8.618922  11.282643    0.430399
 0.001113   0.117851  20.901260
 0.85916    8.618922  11.282643    0.430399
 0.001113   0.040055  17.761863
 1.00000    8.618922  11.282643    0.430399
 0.001113   0.152340  15.298437

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -1.117852  -45.242795   -0.268743
-0.000203   -0.298455  -131.461931
 0.57747   -1.117852  -45.242795   -0.268743
-0.000203   -0.185776  -113.642453
 0.71831   -1.117852  -45.242795   -0.268743
-0.000203   -0.073101   -96.784577
 0.85916   -1.117852  -45.242795   -0.268743
-0.000203   -0.063242   -80.305159
 1.00000   -1.117852  -45.242795   -0.268743
-0.000203   -0.243763   -64.416448
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                      2382

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   11.929264  10.740957    0.607124
 0.001524   0.681148  47.807866
 0.57747   11.929264  10.740957    0.607124
 0.001524   0.426795  44.963557
 0.71831   11.929264  10.740957    0.607124
 0.001524   0.173290  43.978716
 0.85916   11.929264  10.740957    0.607124
 0.001524   0.045455  47.286712
 1.00000   11.929264  10.740957    0.607124
 0.001524   0.164481  65.877524

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -1.072998  -99.137895   -0.291937
-0.000551   -0.325180  -162.019521
 0.57747   -1.072998  -99.137895   -0.291937
-0.000551   -0.202777  -121.581177
 0.71831   -1.072998  -99.137895   -0.291937
-0.000551   -0.080328   -83.316916
 0.85916   -1.072998  -99.137895   -0.291937
-0.000551   -0.083203   -68.343431
 1.00000   -1.072998  -99.137895   -0.291937
-0.000551   -0.337331   -58.132661

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   12.178759  59.735737    0.915524
 0.004386   1.012683  157.353578
 0.57747   12.178759  59.735737    0.915524
 0.004386   0.631240  134.907486
 0.71831   12.178759  59.735737    0.915524
 0.004386   0.249796  121.082236
 0.85916   12.178759  59.735737    0.915524
 0.004386   0.081696  118.535171
 1.00000   12.178759  59.735737    0.915524
 0.004386   0.301142  128.256775

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -5.787632 -118.562902   -0.536408
-0.003952   -0.598581 -150.617170
 0.57747   -5.787632 -118.562902   -0.536408
-0.003952   -0.373649 -108.886510
 0.71831   -5.787632 -118.562902   -0.536408
-0.003952   -0.148693   -75.857678
 0.85916   -5.787632 -118.562902   -0.536408
-0.003952   -0.140213   -61.385890
 1.00000   -5.787632 -118.562902   -0.536408
-0.003952   -0.523077   -51.284531

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    0.554511  71.798976    1.021016
 0.000159   1.142363  96.806965
 0.57747    0.554511  71.798976    1.021016
 0.000159   0.714167  67.028891
 0.71831    0.554511  71.798976    1.021016
 0.000159   0.285931  37.579400
 0.85916    0.554511  71.798976    1.021016
 0.000159   0.127742   9.367612
 1.00000    0.554511  71.798976    1.021016
 0.000159   0.511725   3.267331

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -10.003258  -12.497251   -0.915088
-0.001121   -1.022705   -29.736367
 0.57747   -10.003258  -12.497251   -0.915088
-0.001121   -0.639186   -24.816196
 0.71831   -10.003258  -12.497251   -0.915088
-0.001121   -0.255406   -20.354950
 0.85916   -10.003258  -12.497251   -0.915088
-0.001121   -0.141558   -17.002686
 1.00000   -10.003258  -12.497251   -0.915088
-0.001121   -0.569896   -34.048752
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                      2383

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    5.641298  100.819448    1.584883
 0.006286   1.749667  192.285074
 0.57747    5.641298  100.819448    1.584883
 0.006286   1.091482  155.271663
 0.71831    5.641298  100.819448    1.584883
 0.006286   0.439203  131.702771
 0.85916    5.641298  100.819448    1.584883
 0.006286   0.196893  124.111045
 1.00000    5.641298  100.819448    1.584883
 0.006286   0.703720  130.898624

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -12.307648  -93.695963   -1.250261
-0.007579   -1.397538   -65.538153
 0.57747   -12.307648  -93.695963   -1.250261
-0.007579   -0.873297   -35.500221
 0.71831   -12.307648  -93.695963   -1.250261
-0.007579   -0.348872   -26.658629
 0.85916   -12.307648  -93.695963   -1.250261
-0.007579   -0.249939   -20.446887
 1.00000   -12.307648  -93.695963   -1.250261
-0.007579   -0.912364   -24.311665

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    8.408351  90.851823    1.648249
 0.004837   1.829621  178.624026
 0.57747    8.408351  90.851823    1.648249
 0.004837   1.142708  145.731897
 0.71831    8.408351  90.851823    1.648249
 0.004837   0.460023  123.920387
 0.85916    8.408351  90.851823    1.648249
 0.004837   0.182631  120.564003
 1.00000    8.408351  90.851823    1.648249
 0.004837   0.673096  134.902083

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -11.334823  -117.470847   -1.198094
-0.005774   -1.339131   -99.316738
 0.57747   -11.334823  -117.470847   -1.198094
-0.005774   -0.836425   -57.785770
 0.71831   -11.334823  -117.470847   -1.198094
-0.005774   -0.333839   -31.931460
 0.85916   -11.334823  -117.470847   -1.198094
-0.005774   -0.246624   -20.046463
 1.00000   -11.334823  -117.470847   -1.198094
-0.005774   -0.937084   -22.637507

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    9.727219  80.361580    1.564570
 0.004317   1.737842  160.619824
 0.57747    9.727219  80.361580    1.564570
 0.004317   1.085268  131.286294
 0.71831    9.727219  80.361580    1.564570
 0.004317   0.436249  111.154773
 0.85916    9.727219  80.361580    1.564570
 0.004317   0.169130  106.370813
 1.00000    9.727219  80.361580    1.564570
 0.004317   0.622786  116.268244

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -10.043260  -116.232404   -1.106039
-0.004796   -1.238045   -136.876415
 0.57747   -10.043260  -116.232404   -1.106039
-0.004796   -0.771148   -94.788487
 0.71831   -10.043260  -116.232404   -1.106039
-0.004796   -0.307369   -65.901866
 0.85916   -10.043260  -116.232404   -1.106039
-0.004796   -0.232706   -49.039324
 1.00000   -10.043260  -116.232404   -1.106039
-0.004796   -0.887997   -44.081785
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                    Page
<                MOVING                LOAD                >
                                      2384

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43663    5.913148   9.759430    0.507124
 0.004592   0.551521  55.878168
 0.57747    5.913148   9.759430    0.507124
 0.004592   0.343337  57.554815
 0.71831    5.913148   9.759430    0.507124
 0.004592   0.139469  70.824623
 0.85916    5.913148   9.759430    0.507124
 0.004592   0.051154  98.767469
 1.00000    5.913148   9.759430    0.507124
 0.004592   0.144396  132.473993

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43663   -0.799819  -89.519416   -0.253296
-0.004622   -0.283343   -46.217004
 0.57747   -0.799819  -89.519416   -0.253296
-0.004622   -0.177214   -16.869952
```

0.71831 -0.799819 -89.519416 -0.253296
-0.004622 -0.070959 -5.057970
0.85916 -0.799819 -89.519416 -0.253296
-0.004622 -0.090787 -3.946308
1.00000 -0.799819 -89.519416 -0.253296
-0.004622 -0.301709 -2.845180

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.663397	10.914850	0.719865
0.004785	0.792076	57.625871	
0.57747	9.663397	10.914850	0.719865
0.004785	0.494141	58.574904	
0.71831	9.663397	10.914850	0.719865
0.004785	0.200285	70.550141	
0.85916	9.663397	10.914850	0.719865
0.004785	0.093342	101.480557	
1.00000	9.663397	10.914850	0.719865
0.004785	0.191481	140.786525	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.402527	-122.567873	-0.336797
-0.004465	-0.376136	-99.228515	
0.57747	-1.402527	-122.567873	-0.336797
-0.004465	-0.235072	-55.731435	
0.71831	-1.402527	-122.567873	-0.336797
-0.004465	-0.093561	-27.684039	
0.85916	-1.402527	-122.567873	-0.336797
-0.004465	-0.116516	-16.982266	
1.00000	-1.402527	-122.567873	-0.336797
-0.004465	-0.417758	-12.665652	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.787959	81.884043	1.387248
0.003274	1.544217	196.102082	
0.57747	8.787959	81.884043	1.387248
0.003274	0.964822	166.215239	
0.71831	8.787959	81.884043	1.387248
0.003274	0.388083	144.181255	
0.85916	8.787959	81.884043	1.387248
0.003274	0.137320	136.993137	
1.00000	8.787959	81.884043	1.387248
0.003274	0.514516	137.527340	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.651810	-108.271874	-0.916878
-0.003594	-1.024656	-105.883182	
0.57747	-8.651810	-108.271874	-0.916878
-0.003594	-0.640299	-66.271316	
0.71831	-8.651810	-108.271874	-0.916878
-0.003594	-0.255091	-37.428520	
0.85916	-8.651810	-108.271874	-0.916878
-0.003594	-0.202343	-24.766286	
1.00000	-8.651810	-108.271874	-0.916878
-0.003594	-0.780964	-17.697902	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2385

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	10.240672	74.330860	1.363141
0.003048	1.517125	180.033252	
0.57747	10.240672	74.330860	1.363141
0.003048	0.947501	152.559944	
0.71831	10.240672	74.330860	1.363141
0.003048	0.380294	131.646846	
0.85916	10.240672	74.330860	1.363141
0.003048	0.131714	123.184123	
1.00000	10.240672	74.330860	1.363141
0.003048	0.490930	121.238805	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-7.547566	-105.870440	-0.870426
-0.003013	-0.970578	-146.254923	
0.57747	-7.547566	-105.870440	-0.870426
-0.003013	-0.605791	-106.816191	
0.71831	-7.547566	-105.870440	-0.870426
-0.003013	-0.239972	-76.397669	
0.85916	-7.547566	-105.870440	-0.870426
-0.003013	-0.198192	-59.343135	
1.00000	-7.547566	-105.870440	-0.870426
-0.003013	-0.769861	-47.262605	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.782815	10.512000	0.346558
0.000463	0.386208	29.389398	
0.57747	4.782815	10.512000	0.346558
0.000463	0.470855	24.998494	
0.71831	4.782815	10.512000	0.346558
0.000463	0.095335	20.624002	
0.85916	4.782815	10.512000	0.346558
0.000463	0.028180	16.269933	
1.00000	4.782815	10.512000	0.346558
0.000463	0.102275	11.976752	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.410043	-21.895931	-0.177144
-4.10E-06	-0.094564	-20.208802	
0.57747	-0.410043	-21.895931	-0.177144
-4.10E-06	-0.120297	-81.150635	
0.71831	-0.410043	-21.895931	-0.177144
-4.10E-06	-0.045766	-72.118453	
0.85916	-0.410043	-21.895931	-0.177144
-4.10E-06	-0.049201	-63.152709	
1.00000	-0.410043	-21.895931	-0.177144
-4.10E-06	-0.194182	-54.271650	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.225283	14.603867	0.569781
0.000956	0.634763	39.368830	
0.57747	8.225283	14.603867	0.569781
0.000956	0.396223	33.543795	
0.71831	8.225283	14.603867	0.569781
0.000956	0.157132	28.050176	
0.85916	8.225283	14.603867	0.569781
0.000956	0.047985	23.063704	
1.00000	8.225283	14.603867	0.569781
0.000956	0.175663	18.951992	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.327772	-50.289853	-0.306655
-0.000131	-0.338350	-149.718611	
0.57747	-1.327772	-50.289853	-0.306655
-0.000131	-0.209588	-129.299318	
0.71831	-1.327772	-50.289853	-0.306655
-0.000131	-0.081035	-109.643160	
0.85916	-1.327772	-50.289853	-0.306655
-0.000131	-0.080894	-90.946291	
1.00000	-1.327772	-50.289853	-0.306655
-0.000131	-0.319576	-73.046330	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2386

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.122271	13.531946	0.808495
0.001044	0.905198	54.032937	
0.57747	11.122271	13.531946	0.808495
0.001044	0.565997	51.028022	
0.71831	11.122271	13.531946	0.808495
0.001044	0.226637	50.777693	
0.85916	11.122271	13.531946	0.808495
0.001044	0.055339	59.234106	
1.00000	11.122271	13.531946	0.808495
0.001044	0.212245	75.375704	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.170643	-94.733750	-0.373637
-0.000228	-0.413778	-168.379806	
0.57747	-1.170643	-94.733750	-0.373637
-0.000228	-0.257080	-131.024173	
0.71831	-1.170643	-94.733750	-0.373637
-0.000228	-0.099946	-96.231245	
0.85916	-1.170643	-94.733750	-0.373637
-0.000228	-0.110293	-78.694123	
1.00000	-1.170643	-94.733750	-0.373637
-0.000228	-0.449775	-65.646625	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.510001	61.291322	1.237636
0.003322	1.375768	168.230722	
0.57747	11.510001	61.291322	1.237636
0.003322	0.859138	146.416165	
0.71831	11.510001	61.291322	1.237636
0.003322	0.344967	131.734703	
0.85916	11.510001	61.291322	1.237636
0.003322	0.112238	129.909075	
1.00000	11.510001	61.291322	1.237636
0.003322	0.407189	134.419642	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.443948	-109.582270	-0.720566
-0.002974	-0.802351	-160.018988	
0.57747	-5.443948	-109.582270	-0.720566
-0.002974	-0.500208	-119.368383	
0.71831	-5.443948	-109.582270	-0.720566
-0.002974	-0.197484	-88.465118	
0.85916	-5.443948	-109.582270	-0.720566
-0.002974	-0.182262	-71.555472	
1.00000	-5.443948	-109.582270	-0.720566
-0.002974	-0.700699	-58.591956	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.178759	104.885744	1.209126
0.006313	1.382528	195.445122	
0.57747	12.178759	104.885744	1.209126
0.006313	0.835618	163.043301	
0.71831	12.178759	104.885744	1.209126
0.006313	0.339904	139.441891	
0.85916	12.178759	104.885744	1.209126
0.006313	0.132900	127.815465	
1.00000	12.178759	104.885744	1.209126
0.006313	0.491492	136.685527	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.163697	-136.842285	-0.879154
-0.007678	-0.983152	-162.019521	
0.57747	-13.163697	-136.842285	-0.879154
-0.007678	-0.614491	-121.581177	
0.71831	-13.163697	-136.842285	-0.879154
-0.007678	-0.245810	-96.784577	
0.85916	-13.163697	-136.842285	-0.879154
-0.007678	-0.189300	-80.305159	
1.00000	-13.163697	-136.842285	-0.879154
-0.007678	-0.688819	-64.416448	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2387

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.510001	100.819448	1.648249
0.006286	1.829621	196.102082	
0.57747	11.510001	100.819448	1.648249
0.006286	1.142708	166.215239	
0.71831	11.510001	100.819448	1.648249
0.006286	0.460023	144.181255	
0.85916	11.510001	100.819448	1.648249
0.006286	0.196893	136.993137	
1.00000	11.510001	100.819448	1.648249
0.006286	0.703720	140.786525	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-12.307648	-122.567873	-1.250261
-0.007579	-1.397538	-168.379806	
0.57747	-12.307648	-122.567873	-1.250261
-0.007579	-0.873297	-131.024173	
0.71831	-12.307648	-122.567873	-1.250261
-0.007579	-0.348872	-109.643160	
0.85916	-12.307648	-122.567873	-1.250261
-0.007579	-0.249939	-90.946291	
1.00000	-12.307648	-122.567873	-1.250261
-0.007579	-0.937084	-73.046330	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.178759	104.885744	1.648249
0.006313	1.829621	196.102082	
0.57747	12.178759	104.885744	1.648249
0.006313	1.142708	166.215239	
0.71831	12.178759	104.885744	1.648249
0.006313	0.460023	144.181255	
0.85916	12.178759	104.885744	1.648249
0.006313	0.196893	136.993137	
1.00000	12.178759	104.885744	1.648249
0.006313	0.703720	140.786525	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.163697	-136.842285	-1.250261
-0.007678	-1.397538	-168.379806	
0.57747	-13.163697	-136.842285	-1.250261
-0.007678	-0.873297	-131.024173	
0.71831	-13.163697	-136.842285	-1.250261
-0.007678	-0.348872	-109.643160	
0.85916	-13.163697	-136.842285	-1.250261
-0.007678	-0.249939	-90.946291	
1.00000	-13.163697	-136.842285	-1.250261
-0.007678	-0.937084	-73.046330	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.178759	104.885744	1.648249
0.006313	1.829621	196.102082	
0.57747	12.178759	104.885744	1.648249
0.006313	1.142708	166.215239	
0.71831	12.178759	104.885744	1.648249
0.006313	0.460023	144.181255	
0.85916	12.178759	104.885744	1.648249
0.006313	0.196893	136.993137	
1.00000	12.178759	104.885744	1.648249
0.006313	0.703720	140.786525	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-13.163697	-136.842285	-1.250261
-0.007678	-1.397538	-168.379806	
0.57747	-13.163697	-136.842285	-1.250261
-0.007678	-0.873297	-131.024173	
0.71831	-13.163697	-136.842285	-1.250261
-0.007678	-0.348872	-109.643160	
0.85916	-13.163697	-136.842285	-1.250261
-0.007678	-0.249939	-90.946291	
1.00000	-13.163697	-136.842285	-1.250261
-0.007678	-0.937084	-73.046330	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2388

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 215 ========== LENGTH = 2.977410

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.564920	72.863875	0.738975
7.32E-06	0.413765	2.693713	
0.14084	0.564920	72.863875	0.738975
7.32E-06	0.104015	3.044058	
0.28169	0.564920	72.863875	0.738975
7.32E-06	0.177004	4.500710	
0.42253	0.564920	72.863875	0.738975
7.32E-06	0.446094	8.151030	
0.56338	0.564920	72.863875	0.738975
7.32E-06	0.715184	12.081265	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.362523	-9.719990	-0.641680
-0.001161	-0.361175	-23.593768	
0.14084	-10.362523	-9.719990	-0.641680
-0.001161	-0.092092	-53.706824	
0.28169	-10.362523	-9.719990	-0.641680
-0.001161	-0.206223	-84.182310	
0.42253	-10.362523	-9.719990	-0.641680
-0.001161	-0.451560	-114.665778	
0.56338	-10.362523	-9.719990	-0.641680
-0.001161	-0.825798	-145.177778	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.352012	169.869329	1.152658
0.006137	0.670387	122.947542	
0.14084	2.352012	169.869329	1.152658
0.006137	0.188638	97.893146	
0.28169	2.352012	169.869329	1.152658
0.006137	0.246829	74.982212	
0.42253	2.352012	169.869329	1.152658
0.006137	0.620664	71.176712	
0.56338	2.352012	169.869329	1.152658
0.006137	0.994660	81.194565	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.298347	-32.344843	-0.891842
-0.007778	-0.501330	-11.873439	
0.14084	-17.298347	-32.344843	-0.891842
-0.007778	-0.138353	-50.197667	
0.28169	-17.298347	-32.344843	-0.891842
-0.007778	-0.318191	-88.958658	
0.42253	-17.298347	-32.344843	-0.891842
-0.007778	-0.783890	-130.038040	
0.56338	-17.298347	-32.344843	-0.891842
-0.007778	-1.263147	-192.709468	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.765405	138.577964	1.234815
0.004321	0.708963	120.960275	
0.14084	6.765405	138.577964	1.234815
0.004321	0.192326	127.329293	
0.28169	6.765405	138.577964	1.234815
0.004321	0.229458	135.848868	
0.42253	6.765405	138.577964	1.234815
0.004321	0.576996	157.737841	
0.56338	6.765405	138.577964	1.234815
0.004321	0.924551	189.065317	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.957421	-80.650876	-0.828699
-0.005705	-0.465479	-11.444274	
0.14084	-14.957421	-80.650876	-0.828699
-0.005705	-0.125371	-47.427570	
0.28169	-14.957421	-80.650876	-0.828699
-0.005705	-0.341574	-83.661091	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2389

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42253	-14.957421	-80.650876	-0.828699
-0.005705	-0.847336	-121.411152	
0.56338	-14.957421	-80.650876	-0.828699
-0.005705	-1.362360	-173.811053	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.712923	119.169855	1.183207
0.004145	0.677486	103.472609	
0.14084	8.712923	119.169855	1.183207
0.004145	0.182250	107.468988	
0.28169	8.712923	119.169855	1.183207
0.004145	0.217244	116.267993	
0.42253	8.712923	119.169855	1.183207
0.004145	0.547828	137.047364	
0.56338	8.712923	119.169855	1.183207
0.004145	0.878400	167.796820	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.992718	-83.920051	-0.788243
-0.004787	-0.443775	-33.411351	
0.14084	-12.992718	-83.920051	-0.788243
-0.004787	-0.119356	-57.120939	
0.28169	-12.992718	-83.920051	-0.788243
-0.004787	-0.327220	-81.517728	
0.42253	-12.992718	-83.920051	-0.788243
-0.004787	-0.813405	-108.629039	
0.56338	-12.992718	-83.920051	-0.788243
-0.004787	-1.307263	-149.042815	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.673943	64.652844	0.392082
0.005131	0.240814	132.447186	
0.14084	3.673943	64.652844	0.392082
0.005131	0.077504	124.812618	
0.28169	3.673943	64.652844	0.392082
0.005131	0.051169	117.324377	
0.42253	3.673943	64.652844	0.392082
0.005131	0.128055	124.709510	
0.56338	3.673943	64.652844	0.392082
0.005131	0.204923	143.335020	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.328877	-50.877404	-0.183276
-0.005314	-0.102504	-2.335036	
0.14084	-4.328877	-50.877404	-0.183276
-0.005314	-0.034920	-1.730293	
0.28169	-4.328877	-50.877404	-0.183276
-0.005314	-0.106166	-1.396054	
0.42253	-4.328877	-50.877404	-0.183276
-0.005314	-0.255688	-2.962436	
0.56338	-4.328877	-50.877404	-0.183276
-0.005314	-0.416866	-22.573614	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.448647	61.418858	0.579350
0.005210	0.344736	136.945240	
0.14084	8.448647	61.418858	0.579350
0.005210	0.102838	143.270689	
0.28169	8.448647	61.418858	0.579350
0.005210	0.063003	153.310424	
0.42253	8.448647	61.418858	0.579350
0.005210	0.158425	177.508436	
0.56338	8.448647	61.418858	0.579350
0.005210	0.253829	212.666507	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.668768	-90.367160	-0.227456
-0.005161	-0.127666	-12.946033	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2390

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14084	-4.668768	-90.367160	-0.227456
-0.005161	-0.040878	-9.287500	
0.28169	-4.668768	-90.367160	-0.227456
-0.005161	-0.158046	-6.504789	
0.42253	-4.668768	-90.367160	-0.227456
-0.005161	-0.387322	-7.454379	
0.56338	-4.668768	-90.367160	-0.227456
-0.005161	-0.627072	-26.546000	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.113020	119.668563	1.047923
0.003873	0.600989	131.591090	
0.14084	8.113020	119.668563	1.047923
0.003873	0.162421	124.048637	
0.28169	8.113020	119.668563	1.047923
0.003873	0.179518	137.053610	
0.42253	8.113020	119.668563	1.047923
0.003873	0.451566	162.926177	
0.56338	8.113020	119.668563	1.047923
0.003873	0.723545	197.098031	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.698172	-87.380515	-0.648578
-0.004656	-0.364341	-16.159178	
0.14084	-11.698172	-87.380515	-0.648578
-0.004656	-0.098365	-17.987711	
0.28169	-11.698172	-87.380515	-0.648578
-0.004656	-0.290102	-47.203221	
0.42253	-11.698172	-87.380515	-0.648578
-0.004656	-0.719755	-79.454447	
0.56338	-11.698172	-87.380515	-0.648578
-0.004656	-1.156938	-124.859716	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.744960	104.610559	1.038079
0.003790	0.594007	113.964606	
0.14084	9.744960	104.610559	1.038079
0.003790	0.159387	105.705194	
0.28169	9.744960	104.610559	1.038079
0.003790	0.176271	114.598598	
0.42253	9.744960	104.610559	1.038079
0.003790	0.444456	135.505100	
0.56338	9.744960	104.610559	1.038079
0.003790	0.712622	163.854714	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.032659	-85.323156	-0.639440
-0.003886	-0.359949	-41.958629	
0.14084	-10.032659	-85.323156	-0.639440
-0.003886	-0.096802	-38.483645	
0.28169	-10.032659	-85.323156	-0.639440
-0.003886	-0.286845	-57.720144	
0.42253	-10.032659	-85.323156	-0.639440
-0.003886	-0.713963	-79.193928	
0.56338	-10.032659	-85.323156	-0.639440
-0.003886	-1.147385	-111.483811	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.716394	8.146164	0.261147
0.000871	0.147763	8.138057	
0.14084	4.716394	8.146164	0.261147
0.000871	0.038202	5.087986	
0.28169	4.716394	8.146164	0.261147
0.000871	0.043897	2.561414	
0.42253	4.716394	8.146164	0.261147
0.000871	0.111772	2.262302	
0.56338	4.716394	8.146164	0.261147
0.000871	0.179630	2.386318	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2391

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.327395	-17.874964	-0.161814
-1.51E-05	-0.091800	-46.425558	
0.14084	-0.327395	-17.874964	-0.161814
-1.51E-05	-0.023925	-39.426135	

```
0.28169   -0.327395   -17.874964   -0.161814
-1.51E-05   -0.071273   -32.584518
0.42253   -0.327395   -17.874964   -0.161814
-1.51E-05   -0.180779   -25.804246
0.56338   -0.327395   -17.874964   -0.161814
-1.51E-05   -0.290288   -19.051411

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    8.637458   13.650142    0.431804
 0.001690   0.244527   15.323023
0.14084    8.637458   13.650142    0.431804
 0.001690   0.063410   13.553506
0.28169    8.637458   13.650142    0.431804
 0.001690   0.072712   17.656948
0.42253    8.637458   13.650142    0.431804
 0.001690   0.186081   25.512867
0.56338    8.637458   13.650142    0.431804
 0.001690   0.299436   34.673105

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -1.241596   -44.043550   -0.270292
-0.000364   -0.153962   -64.447327
0.14084   -1.241596   -44.043550   -0.270292
-0.000364   -0.040912   -51.818284
0.28169   -1.241596   -44.043550   -0.270292
-0.000364   -0.118323   -40.157490
0.42253   -1.241596   -44.043550   -0.270292
-0.000364   -0.298649   -31.037741
0.56338   -1.241596   -44.043550   -0.270292
-0.000364   -0.479795   -24.336824

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.990003   14.303182    0.648998
 0.001581   0.366807   65.873561
0.14084   11.990003   14.303182    0.648998
 0.001581   0.094661   89.517404
0.28169   11.990003   14.303182    0.648998
 0.001581   0.079816   116.777517
0.42253   11.990003   14.303182    0.648998
 0.001581   0.202447   147.822371
0.56338   11.990003   14.303182    0.648998
 0.001581   0.325003   180.173783

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -1.262043   -97.466676   -0.292267
-0.000516   -0.165198   -58.149914
0.14084   -1.262043   -97.466676   -0.292267
-0.000516   -0.043086   -47.869239
0.28169   -1.262043   -97.466676   -0.292267
-0.000516   -0.178609   -38.177322
0.42253   -1.262043   -97.466676   -0.292267
-0.000516   -0.449880   -30.283085
0.56338   -1.262043   -97.466676   -0.292267
-0.000516   -0.721828   -24.671522

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   10.808099   95.365576    0.941713
 0.004471   0.526582   128.426103
0.14084   10.808099   95.365576    0.941713
 0.004471   0.148452   116.448779
0.28169   10.808099   95.365576    0.941713
 0.004471   0.148437   119.796378
0.42253   10.808099   95.365576    0.941713
 0.004471   0.374364   136.827225
0.56338   10.808099   95.365576    0.941713
 0.004471   0.600255   163.800335
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2392

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -8.029870   -86.213051   -0.538648
-0.004163   -0.303255   -51.290114
0.14084   -8.029870   -86.213051   -0.538648
-0.004163   -0.083299   -41.242637
0.28169   -8.029870   -86.213051   -0.538648
-0.004163   -0.259238   -47.739682
0.42253   -8.029870   -86.213051   -0.538648
-0.004163   -0.644483   -61.165738
0.56338   -8.029870   -86.213051   -0.538648
-0.004163   -1.037072   -87.307357

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.567674   71.112470    1.019702
 4.32E-06   0.571652   3.259443
0.14084    0.567674   71.112470    1.019702
 4.32E-06   0.567673   3.413110
0.28169    0.567674   71.112470    1.019702
 4.32E-06   0.257755   4.464430
0.42253    0.567674   71.112470    1.019702
 4.32E-06   0.649083   8.767566
0.56338    0.567674   71.112470    1.019702
 4.32E-06   1.040168   13.546748

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -9.970812   -12.299651   -0.933060
-0.001130   -0.524622   -34.070784
0.14084   -9.970812   -12.299651   -0.933060
-0.001130   -0.133024   -60.085053
0.28169   -9.970812   -12.299651   -0.933060
-0.001130   -0.283259   -86.457819
0.42253   -9.970812   -12.299651   -0.933060
-0.001130   -0.710981   -115.341362
0.56338   -9.970812   -12.299651   -0.933060
-0.001130   -1.138674   -144.743612

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.466923   163.169618    1.587810
 0.006180   0.917325   130.933736
0.14084    2.466923   163.169618    1.587810
 0.006180   0.253569   104.714105
0.28169    2.466923   163.169618    1.587810
 0.006180   0.350590   80.280999
0.42253    2.466923   163.169618    1.587810
 0.006180   0.883590   75.837781
0.56338    2.466923   163.169618    1.587810
 0.006180   1.416192   85.945159

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -16.213285   -33.897053   -1.270543
-0.007722   -0.718961   -24.328135
0.14084   -16.213285   -33.897053   -1.270543
-0.007722   -0.204820   -55.735137
0.28169   -16.213285   -33.897053   -1.270543
-0.007722   -0.438071   -86.181421
0.42253   -16.213285   -33.897053   -1.270543
-0.007722   -1.090164   -125.976109
0.56338   -16.213285   -33.897053   -1.270543
-0.007722   -1.750073   -190.621823

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    6.220190   135.038560    1.666300
 0.004554   0.952307   134.900773
0.14084    6.220190   135.038560    1.666300
 0.004554   0.253936   136.416050
0.28169    6.220190   135.038560    1.666300
 0.004554   0.335553   139.787459
0.42253    6.220190   135.038560    1.666300
 0.004554   0.846712   157.892772
0.56338    6.220190   135.038560    1.666300
 0.004554   1.357480   186.510766
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2393

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -14.076008   -75.650091   -1.217964
-0.005852   -0.688079   -22.653243
0.14084   -14.076008   -75.650091   -1.217964
-0.005852   -0.190193   -52.154509
0.28169   -14.076008   -75.650091   -1.217964
-0.005852   -0.460650   -82.539512
0.42253   -14.076008   -75.650091   -1.217964
-0.005852   -1.149981   -117.192064
0.56338   -14.076008   -75.650091   -1.217964
-0.005852   -1.844797   -171.027617

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    7.935495   117.154613    1.583745
 0.004272   0.903268   116.280011
0.14084    7.935495   117.154613    1.583745
 0.004272   0.239429   115.941178
0.28169    7.935495   117.154613    1.583745
 0.004272   0.309517   119.492656
0.42253    7.935495   117.154613    1.583745
 0.004272   0.781191   137.155176
0.56338    7.935495   117.154613    1.583745
 0.004272   1.252815   165.993606

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -12.316399   -81.823701   -1.124692
-0.004901   -0.635827   -44.110624
0.14084   -12.316399   -81.823701   -1.124692
-0.004901   -0.174545   -61.747598
0.28169   -12.316399   -81.823701   -1.124692
-0.004901   -0.437456   -81.312767
0.42253   -12.316399   -81.823701   -1.124692
-0.004901   -1.093805   -106.009021
0.56338   -12.316399   -81.823701   -1.124692
-0.004901   -1.754751   -148.566273

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    3.728959   54.182968    0.516496
 0.004330   0.347925   132.479864
0.14084    3.728959   54.182968    0.516496
 0.004330   0.093045   127.962617
0.28169    3.728959   54.182968    0.516496
 0.004330   0.070320   123.603744
0.42253    3.728959   54.182968    0.516496
 0.004330   0.176961   131.219016
0.56338    3.728959   54.182968    0.516496
 0.004330   0.283540   148.653943

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -3.561765   -48.263027   -0.254388
-0.004507   -0.146173   -2.829050
0.14084   -3.561765   -48.263027   -0.254388
-0.004507   -0.053062   -1.868776
0.28169   -3.561765   -48.263027   -0.254388
-0.004507   -0.141930   -1.197026
0.42253   -3.561765   -48.263027   -0.254388
-0.004507   -0.346773   -2.522591
0.56338   -3.561765   -48.263027   -0.254388
-0.004507   -0.561184   -22.441907

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    7.617946   53.492373    0.742020
 0.004525   0.433034   140.785281
0.14084    7.617946   53.492373    0.742020
 0.004525   0.122316   147.706424
0.28169    7.617946   53.492373    0.742020
 0.004525   0.093855   158.125366
0.42253    7.617946   53.492373    0.742020
 0.004525   0.237745   180.726614
0.56338    7.617946   53.492373    0.742020
 0.004525   0.380957   212.991894
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2394

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -4.021385   -83.705488   -0.342236
-0.004504   -0.195791   -12.651325
0.14084   -4.021385   -83.705488   -0.342236
-0.004504   -0.065243   -8.791568
0.28169   -4.021385   -83.705488   -0.342236
-0.004504   -0.204109   -6.875312
0.42253   -4.021385   -83.705488   -0.342236
-0.004504   -0.506234   -7.573840
0.56338   -4.021385   -83.705488   -0.342236
-0.004504   -0.813748   -26.848838

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    7.490500   108.553243    1.406481
 0.003132   0.798711   137.478074
0.14084    7.490500   108.553243    1.406481
 0.003132   0.208619   127.640921
0.28169    7.490500   108.553243    1.406481
 0.003132   0.256231   140.478133
0.42253    7.490500   108.553243    1.406481
 0.003132   0.647893   165.534003
0.56338    7.490500   108.553243    1.406481
 0.003132   1.038620   197.900439

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -10.293243   -83.135250   -0.932158
-0.003879   -0.526075   -17.675247
0.14084   -10.293243   -83.135250   -0.932158
-0.003879   -0.142906   -17.163257
0.28169   -10.293243   -83.135250   -0.932158
-0.003879   -0.389029   -42.134134
0.42253   -10.293243   -83.135250   -0.932158
-0.003879   -0.973999   -72.026742
0.56338   -10.293243   -83.135250   -0.932158
-0.003879   -1.561653   -114.787694

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    9.175421   96.882222    1.384102
 0.003141   0.785275   121.208443
0.14084    9.175421   96.882222    1.384102
 0.003141   0.204726   110.341329
0.28169    9.175421   96.882222    1.384102
 0.003141   0.240357   117.963747
0.42253    9.175421   96.882222    1.384102
 0.003141   0.609384   137.800013
0.56338    9.175421   96.882222    1.384102
 0.003141   0.977411   164.631663

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -8.925815   -84.993482   -0.878524
-0.003240   -0.496187   -47.255638
0.14084   -8.925815   -84.993482   -0.878524
-0.003240   -0.134234   -40.541364
0.28169   -8.925815   -84.993482   -0.878524
-0.003240   -0.382526   -54.706074
0.42253   -8.925815   -84.993482   -0.878524
-0.003240   -0.958104   -74.441754
0.56338   -8.925815   -84.993482   -0.878524
-0.003240   -1.536706   -105.496522

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    4.816514   10.752663    0.354492
 0.000825   0.200292   11.993978
0.14084    4.816514   10.752663    0.354492
 0.000825   0.051508   7.833656
0.28169    4.816514   10.752663    0.354492
 0.000825   0.043738   3.981639
0.42253    4.816514   10.752663    0.354492
 0.000825   0.112780   2.836610
0.56338    4.816514   10.752663    0.354492
 0.000825   0.181805   3.188715
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2395

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.401653   -22.187926   -0.164374
-1.13E-05   -0.093573   -54.298795
0.14084   -0.401653   -22.187926   -0.164374
-1.13E-05   -0.024689   -41.410412
0.28169   -0.401653   -22.187926   -0.164374
-1.13E-05   -0.096211   -36.659062
0.42253   -0.401653   -22.187926   -0.164374
-1.13E-05   -0.245146   -29.954963
0.56338   -0.401653   -22.187926   -0.164374
-1.13E-05   -0.394090   -24.556309

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    8.221801   16.260566    0.581528
 0.001498   0.328713   18.977726
0.14084    8.221801   16.260566    0.581528
 0.001498   0.084034   16.617249
0.28169    8.221801   16.260566    0.581528
 0.001498   0.080253   19.520197
0.42253    8.221801   16.260566    0.581528
 0.001498   0.206086   27.348504
0.56338    8.221801   16.260566    0.581528
 0.001498   0.331809   37.343549

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -1.392388   -49.831689   -0.299833
-0.000281   -0.170666   -73.090037
0.14084   -1.392388   -49.831689   -0.299833
-0.000281   -0.045318   -57.543954
0.28169   -1.392388   -49.831689   -0.299833
-0.000281   -0.158477   -44.957186
0.42253   -1.392388   -49.831689   -0.299833
-0.000281   -0.402133   -36.098232
0.56338   -1.392388   -49.831689   -0.299833
-0.000281   -0.646637   -30.374185

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.256087   13.843196    0.834531
 0.001193   0.468180   75.358788
0.14084   11.256087   13.843196    0.834531
 0.001193   0.117057   96.435136
0.28169   11.256087   13.843196    0.834531
 0.001193   0.098449   121.086782
0.42253   11.256087   13.843196    0.834531
 0.001193   0.253035   149.663853
0.56338   11.256087   13.843196    0.834531
 0.001193   0.406534   179.857714

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -1.137815   -96.052628   -0.366539
-0.000191   -0.207538   -65.671107
0.14084   -1.137815   -96.052628   -0.366539
-0.000191   -0.053121   -52.899693
0.28169   -1.137815   -96.052628   -0.366539
-0.000191   -0.229804   -41.947685
0.42253   -1.137815   -96.052628   -0.366539
-0.000191   -0.580457   -34.154887
0.56338   -1.137815   -96.052628   -0.366539
-0.000191   -0.930702   -28.471084

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   10.352296   85.937232    1.259904
 0.003517   0.717177   134.403000
0.14084   10.352296   85.937232    1.259904
 0.003517   0.186670   122.873835
0.28169   10.352296   85.937232    1.259904
 0.003517   0.196144   125.572054
0.42253   10.352296   85.937232    1.259904
 0.003517   0.498522   142.852299
0.56338   10.352296   85.937232    1.259904
 0.003517   0.799915   168.473932
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2396

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -6.943816   -86.938119   -0.719342
-0.003205   -0.407575   -58.599130
0.14084   -6.943816   -86.938119   -0.719342
-0.003205   -0.113127   -46.047887
0.28169   -6.943816   -86.938119   -0.719342
-0.003205   -0.347459   -48.218213
0.42253   -6.943816   -86.938119   -0.719342
-0.003205   -0.870800   -59.771638
0.56338   -6.943816   -86.938119   -0.719342
-0.003205   -1.397091   -84.237162

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.990003   169.869329    1.234815
 0.006137   0.708963   136.945240
0.14084   11.990003   169.869329    1.234815
 0.006137   0.192326   143.270689
0.28169   11.990003   169.869329    1.234815
 0.006137   0.246629   153.310424
0.42253   11.990003   169.869329    1.234815
 0.006137   0.620664   177.508436
0.56338   11.990003   169.869329    1.234815
 0.006137   0.994660   212.666507

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -17.298347   -97.466676   -0.891842
-0.007778   -0.501330   -64.447327
0.14084   -17.298347   -97.466676   -0.891842
-0.007778   -0.138353   -57.120939
0.28169   -17.298347   -97.466676   -0.891842
-0.007778   -0.341574   -88.958658
0.42253   -17.298347   -97.466676   -0.891842
-0.007778   -0.847336   -130.038040
0.56338   -17.298347   -97.466676   -0.891842
-0.007778   -1.362360   -192.709468

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.256087   163.169618    1.666300
 0.006180   0.952307   140.785281
0.14084   11.256087   163.169618    1.666300
 0.006180   0.253936   147.706424
0.28169   11.256087   163.169618    1.666300
 0.006180   0.350590   158.125366
0.42253   11.256087   163.169618    1.666300
 0.006180   0.883590   180.726614
0.56338   11.256087   163.169618    1.666300
 0.006180   1.416192   212.991894

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -16.213285   -96.052628   -1.270543
-0.007722   -0.718961   -73.090037
0.14084   -16.213285   -96.052628   -1.270543
-0.007722   -0.204820   -61.747598
0.28169   -16.213285   -96.052628   -1.270543
-0.007722   -0.460650   -88.181421
0.42253   -16.213285   -96.052628   -1.270543
-0.007722   -1.149981   -125.976109
0.56338   -16.213285   -96.052628   -1.270543
-0.007722   -1.844797   -190.621823

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.990003   169.869329    1.666300
 0.006180   0.952307   140.785281
0.14084   11.990003   169.869329    1.666300
 0.006180   0.253936   147.706424
0.28169   11.990003   169.869329    1.666300
 0.006180   0.350590   158.125366
0.42253   11.990003   169.869329    1.666300
 0.006180   0.883590   180.726614
0.56338   11.990003   169.869329    1.666300
 0.006180   1.416192   212.991894
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              2397

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -17.298347   -97.466676   -1.270543
-0.007778   -0.718961   -73.090037
0.14084   -17.298347   -97.466676   -1.270543
-0.007778   -0.204820   -61.747598
0.28169   -17.298347   -97.466676   -1.270543
-0.007778   -0.460650   -88.958658
0.42253   -17.298347   -97.466676   -1.270543
-0.007778   -1.149981   -130.038040
0.56338   -17.298347   -97.466676   -1.270543
-0.007778   -1.844797   -192.709468

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.990003   169.869329    1.666300
 0.006180   0.952307   140.785281
0.14084   11.990003   169.869329    1.666300
 0.006180   0.253936   147.706424
0.28169   11.990003   169.869329    1.666300
 0.006180   0.350590   158.125366
0.42253   11.990003   169.869329    1.666300
 0.006180   0.883590   180.726614
0.56338   11.990003   169.869329    1.666300
 0.006180   1.416192   212.991894

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -17.298347   -97.466676   -1.270543
-0.007778   -0.718961   -73.090037
0.14084   -17.298347   -97.466676   -1.270543
-0.007778   -0.204820   -61.747598
0.28169   -17.298347   -97.466676   -1.270543
-0.007778   -0.460650   -88.958658
0.42253   -17.298347   -97.466676   -1.270543
-0.007778   -1.149981   -130.038040
0.56338   -17.298347   -97.466676   -1.270543
-0.007778   -1.844797   -192.709468

ELEM      216 ================== LENGTH
=  2.977439

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43662    2.069726   59.741429    0.792779
 1.68E-05   0.885647   79.015861
0.57746    2.069726   59.741429    0.792779
 1.68E-05   0.553222   54.010897
0.71831    2.069726   59.741429    0.792779
 1.68E-05   0.220847   29.056653
0.85915    2.069726   59.741429    0.792779
 1.68E-05   0.088813   4.583652
1.00000    2.069726   59.741429    0.792779
 1.68E-05   0.354833   2.707967

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43662   -7.332759   -18.111640   -0.634144
-0.001415   -0.708904   -36.781376
0.57746   -7.332759   -18.111640   -0.634144
-0.001415   -0.442969   -29.287945
0.71831   -7.332759   -18.111640   -0.634144
-0.001415   -0.177035   -22.111693
0.85915   -7.332759   -18.111640   -0.634144
-0.001415   -0.111768   -15.338127
1.00000   -7.332759   -18.111640   -0.634144
-0.001415   -0.444195   -22.634883

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43662    5.904393   88.605028    1.246835
 0.006292   1.373018   163.091659
0.57746    5.904393   88.605028    1.246835
 0.006292   0.858245   127.958097
```

```
0.71831     5.904393    88.605028     1.246835
 0.006292    0.343576   106.205288
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2398

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
             T          M2          M3
0.85915     5.904393    88.605028     1.246835
 0.006292    0.136686   103.106611
1.00000     5.904393    88.605028     1.246835
 0.006292    0.497524   115.337773

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662   -12.052753 -103.461568    -0.889291
-0.007850   -0.994203   -73.034167
0.57746   -12.052753 -103.461568    -0.889291
-0.007850   -0.621271   -41.664633
0.71831   -12.052753 -103.461568    -0.889291
-0.007850   -0.248329   -29.144154
0.85915   -12.052753 -103.461568    -0.889291
-0.007850   -0.200429   -20.439036
1.00000   -12.052753 -103.461568    -0.889291
-0.007850   -0.722300   -12.757447

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     8.746347    84.740468     1.373079
 0.004825    1.524503   158.110280
0.57746     8.746347    84.740468     1.373079
 0.004825    0.954277   126.375044
0.71831     8.746347    84.740468     1.373079
 0.004825    0.384282   104.409776
0.85915     8.746347    84.740468     1.373079
 0.004825    0.131187    96.674640
1.00000     8.746347    84.740468     1.373079
 0.004825    0.488832   109.245554

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662   -10.625251 -125.482465    -0.872164
-0.005646   -0.974072  -115.527487
0.57746   -10.625251 -125.482465    -0.872164
-0.005646   -0.608270   -71.182986
0.71831   -10.625251 -125.482465    -0.872164
-0.005646   -0.242482   -38.355561
0.85915   -10.625251 -125.482465    -0.872164
-0.005646   -0.206630   -18.881922
1.00000   -10.625251 -125.482465    -0.872164
-0.005646   -0.781427   -13.872315

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     10.206622   77.721051     1.290176
 0.004472    1.432748   146.677326
0.57746     10.206622   77.721051     1.290176
 0.004472    0.896319   117.263708
0.71831     10.206622   77.721051     1.290176
 0.004472    0.360719    95.968742
0.85915     10.206622   77.721051     1.290176
 0.004472    0.121088    86.564698
1.00000     10.206622   77.721051     1.290176
 0.004472    0.453269    94.210302

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -9.542051 -116.261498    -0.808151
-0.004690   -0.902266  -134.312063
0.57746    -9.542051 -116.261498    -0.808151
-0.004690   -0.563318   -92.744181
0.71831    -9.542051 -116.261498    -0.808151
-0.004690   -0.224378   -61.153470
0.85915    -9.542051 -116.261498    -0.808151
-0.004690   -0.193438   -41.168068
1.00000    -9.542051 -116.261498    -0.808151
-0.004690   -0.733675   -32.928381

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     4.619491    9.771325     0.440984
0.005503    0.477442   46.379994
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2399

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
             T          M2          M3
0.57746     4.619491    9.771325     0.440984
0.005503    0.299327   45.001247
0.71831     4.619491    9.771325     0.440984
0.005503    0.121292   55.392830
0.85915     4.619491    9.771325     0.440984
0.005503    0.036603   83.225292
1.00000     4.619491    9.771325     0.440984
0.005503    0.106500   121.564084

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -3.086497 -100.803345    -0.190952
-0.005378   -0.213802   -52.544585
0.57746    -3.086497 -100.803345    -0.190952
-0.005378   -0.133713   -20.281530
0.71831    -3.086497 -100.803345    -0.190952
-0.005378   -0.053606    -4.326955
0.85915    -3.086497 -100.803345    -0.190952
-0.005378   -0.081353    -2.963693
1.00000    -3.086497 -100.803345    -0.190952
-0.005378   -0.265436    -2.789203

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     9.155880    16.358938     0.662295
 0.005724    0.728252   55.235126
0.57746     9.155880    16.358938     0.662295
 0.005724    0.456837   52.636697
0.71831     9.155880    16.358938     0.662295
 0.005724    0.186576   61.192047
0.85915     9.155880    16.358938     0.662295
 0.005724    0.048587   86.057780
1.00000     9.155880    16.358938     0.662295
 0.005724    0.153590   123.606353

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -2.783531 -129.654133    -0.272788
-0.004902   -0.303872  -106.721131
0.57746    -2.783531 -129.654133    -0.272788
-0.004902   -0.189420   -61.931538
0.71831    -2.783531 -129.654133    -0.272788
-0.004902   -0.074981   -30.774958
0.85915    -2.783531 -129.654133    -0.272788
-0.004902   -0.109050   -15.044044
1.00000    -2.783531 -129.654133    -0.272788
-0.004902   -0.385731   -14.526299

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     9.117131    80.769507     1.171482
 0.004233    1.301780   177.237639
0.57746     9.117131    80.769507     1.171482
 0.004233    0.814973   146.998557
0.71831     9.117131    80.769507     1.171482
 0.004233    0.329225   124.846225
0.85915     9.117131    80.769507     1.171482
 0.004233    0.103830   115.053352
1.00000     9.117131    80.769507     1.171482
 0.004233    0.385324   117.149698

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -9.269537  -118.585730    -0.686851
-0.004329   -0.766705  -117.563585
0.57746    -9.269537  -118.585730    -0.686851
-0.004329   -0.478615   -74.803573
0.71831    -9.269537  -118.585730    -0.686851
-0.004329   -0.190551   -41.888771
0.85915    -9.269537  -118.585730    -0.686851
-0.004329   -0.175272   -23.501869
1.00000    -9.269537  -118.585730    -0.686851
-0.004329   -0.665572   -18.800947
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2400

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     9.875207    75.065411     1.131880
 0.003993    1.258259   165.825604
0.57746     9.875207    75.065411     1.131880
 0.003993    0.767351   137.392660
0.71831     9.875207    75.065411     1.131880
 0.003993    0.317165   115.736595
0.85915     9.875207    75.065411     1.131880
 0.003993    0.099381   104.383585
1.00000     9.875207    75.065411     1.131880
 0.003993    0.370561   102.843854

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -8.551396 -107.060138    -0.659672
-0.003623   -0.735942  -133.919452
0.57746    -8.551396 -107.060138    -0.659672
-0.003623   -0.459259   -95.032750
0.71831    -8.551396 -107.060138    -0.659672
-0.003623   -0.182589   -64.340465
0.85915    -8.551396 -107.060138    -0.659672
-0.003623   -0.168400   -45.608524
1.00000    -8.551396 -107.060138    -0.659672
-0.003623   -0.642284   -38.691358

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     3.001722    12.401602     0.245868
 0.000693    0.274291   140.597193
0.57746     3.001722    12.401602     0.245868
 0.000693    0.171193   25.424333
0.71831     3.001722    12.401602     0.245868
 0.000693    0.068086   20.284234
0.85915     3.001722    12.401602     0.245868
 0.000693    0.021241   15.230239
1.00000     3.001722    12.401602     0.245868
 0.000693    0.081534   10.295821

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -1.389040   -11.077195    -0.143684
-7.03E-06   -0.159488   -53.718395
0.57746    -1.389040   -11.077195    -0.143684
-7.03E-06   -0.099233   -49.228121
0.71831    -1.389040   -11.077195    -0.143684
-7.03E-06   -0.038977   -44.852855
0.85915    -1.389040   -11.077195    -0.143684
-7.03E-06   -0.034984   -40.592184
1.00000    -1.389040   -11.077195    -0.143684
-7.03E-06   -0.138144   -36.252691

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     7.103965    19.995653     0.426920
 0.001431    0.476364   44.534258
0.57746     7.103965    19.995653     0.426920
 0.001431    0.297601   36.396110
0.71831     7.103965    19.995653     0.426920
 0.001431    0.118985   29.135384
0.85915     7.103965    19.995653     0.426920
 0.001431    0.034915   22.871360
1.00000     7.103965    19.995653     0.426920
 0.001431    0.133891   17.196529

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -2.146273   -33.116101    -0.236749
-0.000203   -0.263206  -100.890640
0.57746    -2.146273   -33.116101    -0.236749
-0.000203   -0.163919   -88.048758
0.71831    -2.146273   -33.116101    -0.236749
-0.000203   -0.064613   -76.458419
0.85915    -2.146273   -33.116101    -0.236749
-0.000203   -0.060950   -65.358221
1.00000    -2.146273   -33.116101    -0.236749
-0.000203   -0.239959   -54.743217
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2401

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     9.487218    21.567091     0.697096
 0.001847    0.781261   59.843716
0.57746     9.487218    21.567091     0.697096
 0.001847    0.489341   53.696248
0.71831     9.487218    21.567091     0.697096
 0.001847    0.198397   49.116759
0.85915     9.487218    21.567091     0.697096
 0.001847    0.046129   48.163493
1.00000     9.487218    21.567091     0.697096
 0.001847    0.176143   59.284834

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -2.413341   -85.215321    -0.311139
-0.000322   -0.345641  -138.666163
0.57746    -2.413341   -85.215321    -0.311139
-0.000322   -0.215109  -104.165199
0.71831    -2.413341   -85.215321    -0.311139
-0.000322   -0.084611   -71.291343
0.85915    -2.413341   -85.215321    -0.311139
-0.000322   -0.096402   -53.430883
1.00000    -2.413341   -85.215321    -0.311139
-0.000322   -0.388419   -49.216180

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     10.009324   63.902769     1.020081
 0.004641    1.131474   155.128919
0.57746     10.009324   63.902769     1.020081
 0.004641    0.708150   131.547405
0.71831     10.009324   63.902769     1.020081
 0.004641    0.285632   115.931810
0.85915     10.009324   63.902769     1.020081
 0.004641    0.086364   111.922413
1.00000     10.009324   63.902769     1.020081
 0.004641    0.313607   117.573684

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -7.342414  -109.921350    -0.557336
-0.003819   -0.622196  -137.145420
0.57746    -7.342414  -109.921350    -0.557336
-0.003819   -0.387429   -97.991581
0.71831    -7.342414  -109.921350    -0.557336
-0.003819   -0.153680   -68.470381
0.85915    -7.342414  -109.921350    -0.557336
-0.003819   -0.154795   -50.739950
1.00000    -7.342414  -109.921350    -0.557336
-0.003819   -0.581802   -44.623482

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     3.499341    55.856828     1.152284
 1.22E-05    1.286777   72.589195
0.57746     3.499341    55.856828     1.152284
 1.22E-05    0.803521   49.581908
0.71831     3.499341    55.856828     1.152284
 1.22E-05    0.320170   26.913975
0.85915     3.499341    55.856828     1.152284
 1.22E-05    0.132766    5.673025
1.00000     3.499341    55.856828     1.152284
 1.22E-05    0.535639    3.212362

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -6.390752   -22.399279    -0.960413
-0.001421   -1.075302   -49.592616
0.57746    -6.390752   -22.399279    -0.960413
-0.001421   -0.672587   -40.637128
0.71831    -6.390752   -22.399279    -0.960413
-0.001421   -0.269592   -32.030077
0.85915    -6.390752   -22.399279    -0.960413
-0.001421   -0.162326   -24.662251
1.00000    -6.390752   -22.399279    -0.960413
-0.001421   -0.645699   -33.843800
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2402

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     7.197212    82.075294     1.811856
 0.006275    2.091123   154.783271
0.57746     7.197212    82.075294     1.811856
 0.006275    1.255772   124.169659
0.71831     7.197212    82.075294     1.811856
 0.006275    0.502305   107.103039
0.85915     7.197212    82.075294     1.811856
 0.006275    0.215943   107.450108
1.00000     7.197212    82.075294     1.811856
 0.006275    0.771739   121.363666

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -11.011584  -105.105947    -1.370983
-0.007742   -1.531965   -91.791496
0.57746    -11.011584  -105.105947    -1.370983
-0.007742   -0.957289   -52.882272
0.71831    -11.011584  -105.105947    -1.370983
-0.007742   -0.382280   -38.763877
0.85915    -11.011584  -105.105947    -1.370983
-0.007742   -0.340647   -29.306535
1.00000    -11.011584  -105.105947    -1.370983
-0.007742   -1.039956   -26.133349

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     9.390885    79.336818     1.988303
 0.004922    2.213442   151.715304
0.57746     9.390885    79.336818     1.988303
 0.004922    1.383940   122.610370
0.71831     9.390885    79.336818     1.988303
 0.004922    0.554438   103.655086
0.85915     9.390885    79.336818     1.988303
 0.004922    0.210920   102.490984
1.00000     9.390885    79.336818     1.988303
 0.004922    0.777215   120.187326

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -9.871221  -122.280556    -1.382793
-0.005750   -1.544911  -121.968520
0.57746    -9.871221  -122.280556    -1.382793
-0.005750   -0.965096   -74.902124
0.71831    -9.871221  -122.280556    -1.382793
-0.005750   -0.385131   -45.599012
0.85915    -9.871221  -122.280556    -1.382793
-0.005750   -0.294190   -26.152922
1.00000    -9.871221  -122.280556    -1.382793
-0.005750   -1.127566   -25.331250

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     10.847272   74.578005     1.903529
 0.004535    2.120116   144.204393
0.57746     10.847272   74.578005     1.903529
 0.004535    1.325320   116.477965
0.71831     10.847272   74.578005     1.903529
 0.004535    0.530848   97.210200
0.85915     10.847272   74.578005     1.903529
 0.004535    0.194538   92.864743
1.00000     10.847272   74.578005     1.903529
 0.004535    0.722402   104.191082

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -8.948259  -114.324886    -1.285312
-0.004777   -1.435327  -142.113866
0.57746    -8.948259  -114.324886    -1.285312
-0.004777   -0.896534   -97.838376
0.71831    -8.948259  -114.324886    -1.285312
-0.004777   -0.357307   -68.518251
0.85915    -8.948259  -114.324886    -1.285312
-0.004777   -0.279387   -48.039685
1.00000    -8.948259  -114.324886    -1.285312
-0.004777   -1.077344   -43.002608
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2403

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     3.920745    10.253201     0.628380
 0.004612    0.693387   49.038708
0.57746     3.920745    10.253201     0.628380
 0.004612    0.434448   48.708340
0.71831     3.920745    10.253201     0.628380
 0.004612    0.175472   59.375356
0.85915     3.920745    10.253201     0.628380
 0.004612    0.066241   86.587860
1.00000     3.920745    10.253201     0.628380
 0.004612    0.196026   119.141484

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -3.294373   -88.008862    -0.341162
-0.004504   -0.379190   -51.591529
0.57746    -3.294373   -88.008862    -0.341162
-0.004504   -0.236273   -19.121936
0.71831    -3.294373   -88.008862    -0.341162
-0.004504   -0.093362    -5.156513
0.85915    -3.294373   -88.008862    -0.341162
-0.004504   -0.105411    -3.600900
1.00000    -3.294373   -88.008862    -0.341162
-0.004504   -0.367776    -3.198656

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     8.283187    18.198296     0.968440
 0.004934    1.074705   61.101634
0.57746     8.283187    18.198296     0.968440
 0.004934    0.672587   57.680203
0.71831     8.283187    18.198296     0.968440
 0.004934    0.271208   64.034038
0.85915     8.283187    18.198296     0.968440
 0.004934    0.087469   89.214875
1.00000     8.283187    18.198296     0.968440
 0.004934    0.281403   124.363625

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -3.011275  -114.242483    -0.493539
-0.004184   -0.549294   -98.792332
0.57746    -3.011275  -114.242483    -0.493539
-0.004184   -0.342503   -54.942455
0.71831    -3.011275  -114.242483    -0.493539
-0.004184   -0.135483   -28.209044
0.85915    -3.011275  -114.242483    -0.493539
-0.004184   -0.149589   -14.801324
1.00000    -3.011275  -114.242483    -0.493539
-0.004184   -0.555152   -14.035365

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     8.545918    77.683464     1.715155
 0.003411    1.913715   176.935783
0.57746     8.545918    77.683464     1.715155
 0.003411    1.196835   147.845210
0.71831     8.545918    77.683464     1.715155
 0.003411    0.480184   125.525433
0.85915     8.545918    77.683464     1.715155
 0.003411    0.166824   117.786794
1.00000     8.545918    77.683464     1.715155
 0.003411    0.624171   119.230456

COMB DL-G2-3 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -8.971157  -106.609586    -1.109151
-0.003556   -1.238148  -114.964552
0.57746    -8.971157  -106.609586    -1.109151
-0.003556   -0.773103   -73.396277
0.71831    -8.971157  -106.609586    -1.109151
-0.003556   -0.307637   -43.332829
0.85915    -8.971157  -106.609586    -1.109151
-0.003556   -0.246915   -25.860256
1.00000    -8.971157  -106.609586    -1.109151
-0.003556   -0.966296   -19.827741
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2404

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     9.353638    74.389236     1.686077
 0.003317    1.882377   170.267421
0.57746     9.353638    74.389236     1.686077
 0.003317    1.177322   142.094628
0.71831     9.353638    74.389236     1.686077
 0.003317    0.472568   119.563391
0.85915     9.353638    74.389236     1.686077
 0.003317    0.157582   109.182582
1.00000     9.353638    74.389236     1.686077
 0.003317    0.593823   106.549438

COMB DL-G2-4 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -8.511232   -98.580676    -1.054543
-0.002981   -1.176132  -136.879544
0.57746    -8.511232   -98.580676    -1.054543
-0.002981   -0.733874   -98.342805
0.71831    -8.511232   -98.580676    -1.054543
-0.002981   -0.291140   -69.417115
0.85915    -8.511232   -98.580676    -1.054543
-0.002981   -0.240617   -50.810880
1.00000    -8.511232   -98.580676    -1.054543
-0.002981   -0.947730   -42.093550

COMB DL-G3-1 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     2.932452    15.572717     0.406752
 0.000703    0.456221   38.997752
0.57746     2.932452    15.572717     0.406752
 0.000703    0.285581   32.658924
0.71831     2.932452    15.572717     0.406752
 0.000703    0.114730   26.334710
0.85915     2.932452    15.572717     0.406752
 0.000703    0.030824   20.040713
1.00000     2.932452    15.572717     0.406752
 0.000703    0.117209   13.841496

COMB DL-G3-1 ------------------ MIN

REL DIST          P          V2          V3
             T          M2          M3
0.43662    -2.204913   -13.413921    -0.205415
-4.10E-06   -0.226948   -62.516953
0.57746    -2.204913   -13.413921    -0.205415
-4.10E-06   -0.140740   -57.164212
0.71831    -2.204913   -13.413921    -0.205415
-4.10E-06   -0.054309   -51.887982
0.85915    -2.204913   -13.413921    -0.205415
-4.10E-06   -0.054394   -46.652674
1.00000    -2.204913   -13.413921    -0.205415
-4.10E-06   -0.225588   -41.503519

COMB DL-G3-2 ------------------ MAX

REL DIST          P          V2          V3
             T          M2          M3
0.43662     7.328791    24.697867     0.714815
 0.001360    0.800125   56.245256
0.57746     7.328791    24.697867     0.714815
 0.001360    0.500227   46.315958
0.71831     7.328791    24.697867     0.714815
 0.001360    0.200881   36.961051
0.85915     7.328791    24.697867     0.714815
```

```
 0.001360     0.053934    28.194394
 1.00000      7.328791    24.697867      0.714815
 0.001360     0.211084    20.286706

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662    -2.873677  -35.133840  -0.372780
-0.000130   -0.413809 -110.606578
0.57746    -2.873677  -35.133840  -0.372780
-0.000130   -0.257381   -96.569805
0.71831    -2.873677  -35.133840  -0.372780
-0.000130   -0.100740   -83.469536
0.85915    -2.873677  -35.133840  -0.372780
-0.000130   -0.097953   -71.482814
1.00000    -2.873677  -35.133840  -0.372780
-0.000130   -0.398202   -60.473288
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2405

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662     8.664793   25.697942   1.068814
 0.001449   1.198881    70.343172
0.57746     8.664793   25.697942   1.068814
 0.001449   0.750029    61.833990
0.71831     8.664793   25.697942   1.068814
 0.001449   0.301981    54.854054
0.85915     8.664793   25.697942   1.068814
 0.001449   0.075111    55.978893
1.00000     8.664793   25.697942   1.068814
 0.001449   0.295490    66.039368

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662    -3.300160   -77.618471  -0.522234
-5.38E-06   -0.580108  -136.747867
0.57746    -3.300160   -77.618471  -0.522234
-5.38E-06   -0.361122  -105.560687
0.71831    -3.300160   -77.618471  -0.522234
-5.38E-06   -0.141616   -75.773500
0.85915    -3.300160   -77.618471  -0.522234
-5.38E-06   -0.142874   -59.779311
1.00000    -3.300160   -77.618471  -0.522234
-5.38E-06   -0.591976   -54.191880

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662     9.166350   65.609698   1.538526
 0.003653   1.717630   165.788398
0.57746     9.166350   65.609698   1.538526
 0.003653   1.074511   141.385668
0.71831     9.166350   65.609698   1.538526
 0.003653   0.432109   123.216564
0.85915     9.166350   65.609698   1.538526
 0.003653   0.138147   117.880458
1.00000     9.166350   65.609698   1.538526
 0.003653   0.509474   120.021465

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662    -8.014549   -98.632738  -0.900662
-0.002857   -1.002668  -140.383762
0.57746    -8.014549   -98.632738  -0.900662
-0.002857   -0.624922  -101.974810
0.71831    -8.014549   -98.632738  -0.900662
-0.002857   -0.246981   -74.126115
0.85915    -8.014549   -98.632738  -0.900662
-0.002857   -0.220458   -57.418654
1.00000    -8.014549   -98.632738  -0.900662
-0.002857   -0.865625   -49.568239

COMB       DB ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662     10.206622  88.605028   1.373079
 0.006292   1.524503   177.237639
0.57746     10.206622  88.605028   1.373079
 0.006292   0.954277   146.998557
0.71831     10.206622  88.605028   1.373079
 0.006292   0.384282   124.846225
0.85915     10.206622  88.605028   1.373079
 0.006292   0.136686   115.054352
1.00000     10.206622  88.605028   1.373079
 0.006292   0.497524   123.606353

COMB       DB ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -12.052753  -129.654133  -0.889291
-0.007850   -0.994203  -138.666163
0.57746   -12.052753  -129.654133  -0.889291
-0.007850   -0.621271  -104.165199
0.71831   -12.052753  -129.654133  -0.889291
-0.007850   -0.248329   -76.458419
0.85915   -12.052753  -129.654133  -0.889291
-0.007850   -0.206630   -65.358221
1.00000   -12.052753  -129.654133  -0.889291
-0.007850   -0.781427   -54.743217
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2406

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB       DL ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662     10.847272  82.075294   1.988303
 0.006275   2.213442   176.935783
0.57746     10.847272  82.075294   1.988303
 0.006275   1.383940   147.845210
0.71831     10.847272  82.075294   1.988303
 0.006275   0.554307   125.525433
0.85915     10.847272  82.075294   1.988303
 0.006275   0.215943   117.880458
1.00000     10.847272  82.075294   1.988303
 0.006275   0.777215   124.363625

COMB       DL ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662    -11.011584  -122.280556  -1.382793
-0.007742   -1.544911  -142.113866
0.57746    -11.011584  -122.280556  -1.382793
-0.007742   -0.965096  -105.560687
0.71831    -11.011584  -122.280556  -1.382793
-0.007742   -0.385131   -83.469536
0.85915    -11.011584  -122.280556  -1.382793
-0.007742   -0.294190   -71.482814
1.00000    -11.011584  -122.280556  -1.382793
-0.007742   -1.127566   -60.473288

COMB       CAR ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662     10.847272  88.605028   1.988303
 0.006292   2.213442   177.237639
0.57746     10.847272  88.605028   1.988303
 0.006292   1.383940   147.845210
0.71831     10.847272  88.605028   1.988303
 0.006292   0.554307   125.525433
0.85915     10.847272  88.605028   1.988303
 0.006292   0.215943   117.880458
1.00000     10.847272  88.605028   1.988303
 0.006292   0.777215   124.363625

COMB       CAR ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -12.052753  -129.654133  -1.382793
-0.007850   -1.544911  -142.113866
0.57746   -12.052753  -129.654133  -1.382793
-0.007850   -0.965096  -105.560687
0.71831   -12.052753  -129.654133  -1.382793
-0.007850   -0.385131   -83.469536
0.85915   -12.052753  -129.654133  -1.382793
-0.007850   -0.294190   -71.482814
1.00000   -12.052753  -129.654133  -1.382793
-0.007850   -1.127566   -60.473288

COMB       DESIGN ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662     10.847272  88.605028   1.988303
 0.006292   2.213442   177.237639
0.57746     10.847272  88.605028   1.988303
 0.006292   1.383940   147.845210
0.71831     10.847272  88.605028   1.988303
 0.006292   0.554307   125.525433
0.85915     10.847272  88.605028   1.988303
 0.006292   0.215943   117.880458
1.00000     10.847272  88.605028   1.988303
 0.006292   0.777215   124.363625

COMB       DESIGN ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662   -12.052753  -129.654133  -1.382793
-0.007850   -1.544911  -142.113866
0.57746   -12.052753  -129.654133  -1.382793
-0.007850   -0.965096  -105.560687
0.71831   -12.052753  -129.654133  -1.382793
-0.007850   -0.385131   -83.469536
0.85915   -12.052753  -129.654133  -1.382793
-0.007850   -0.294190   -71.482814
1.00000   -12.052753  -129.654133  -1.382793
-0.007850   -1.127566   -60.473288
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2407

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      217 ========== LENGTH =     2.977508

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     2.062844   59.634060   0.778744
 7.37E-06   0.436601    2.704103
0.14085     2.062844   59.634060   0.778744
 7.37E-06   0.110111    3.029626
0.28170     2.062844   59.634060   0.778744
 7.37E-06   0.177134    9.709108
0.42254     2.062844   59.634060   0.778744
 7.37E-06   0.446599    17.083356
0.56339     2.062844   59.634060   0.778744
 7.37E-06   0.716063    24.611396

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -7.314341   -18.176935  -0.642535
-0.001434   -0.361794   -22.655385
0.14085    -7.314341   -18.176935  -0.642535
-0.001434   -0.092327   -47.150101
0.28170    -7.314341   -18.176935  -0.642535
-0.001434   0.216662    -72.093783
0.42254    -7.314341   -18.176935  -0.642535
-0.001434   -0.543171   -97.058180
0.56339    -7.314341   -18.176935  -0.642535
-0.001434   -0.869748   -122.048886

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     3.059358   154.128083   1.243659
 0.006079   0.723452   115.714535
0.14085     3.059358   154.128083   1.243659
 0.006079   0.203055   91.893400
0.28170     3.059358   154.128083   1.243659
 0.006079   0.248400    74.234489
0.42254     3.059358   154.128083   1.243659
 0.006079   0.625865    76.581345
0.56339     3.059358   154.128083   1.243659
 0.006079   1.003321    91.548840

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -15.434182   -41.570458  -0.900041
-0.008114   -0.506501   -12.776275
0.14085   -15.434182   -41.570458  -0.900041
-0.008114   -0.137832   -44.741405
0.28170   -15.434182   -41.570458  -0.900041
-0.008114   -0.340318   -77.455979
0.42254   -15.434182   -41.570458  -0.900041
-0.008114   -0.850943   -114.527912
0.56339   -15.434182   -41.570458  -0.900041
-0.008114   -1.363011   -172.685974

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     6.868793   129.150705   1.403538
 0.004268   0.805900   109.463888
0.14085     6.868793   129.150705   1.403538
 0.004268   0.218192   113.977985
0.28170     6.868793   129.150705   1.403538
 0.004268   0.240760   124.623599
0.42254     6.868793   129.150705   1.403538
 0.004268   0.606348   149.204470
0.56339     6.868793   129.150705   1.403538
 0.004268   0.971850   182.422891

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -12.920534   -83.632317  -0.871497
-0.005863   -0.490035   -13.848615
0.14085   -12.920534   -83.632317  -0.871497
-0.005863   -0.130438   -45.399832
0.28170   -12.920534   -83.632317  -0.871497
-0.005863   -0.385536   -77.946511
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2408

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
0.42254   -12.920534   -83.632317  -0.871497
-0.005863   -0.966705  -113.408907
0.56339   -12.920534   -83.632317  -0.871497
-0.005863   -1.548856   -163.184063

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     8.662413   114.520657   1.319950
 0.004191   0.756291    94.413588
0.14085     8.662413   114.520657   1.319950
 0.004191   0.203445    95.782390
0.28170     8.662413   114.520657   1.319950
 0.004191   0.222714    105.964789
0.42254     8.662413   114.520657   1.319950
 0.004191   0.561793    128.495772
0.56339     8.662413   114.520657   1.319950
 0.004191   0.900795    158.372211

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -11.446234   -81.604182  -0.808318
-0.004871   -0.455114   -32.915657
0.14085   -11.446234   -81.604182  -0.808318
-0.004871   -0.121007   -55.233285
0.28170   -11.446234   -81.604182  -0.808318
-0.004871   -0.362591   -78.532436
0.42254   -11.446234   -81.604182  -0.808318
-0.004871   -0.909985   -105.517611
0.56339   -11.446234   -81.604182  -0.808318
-0.004871   -1.458181   -145.625453

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     2.279348   64.822308   0.466527
 0.005082   0.283931   121.872959
0.14085     2.279348   64.822308   0.466527
 0.005082   0.053623   113.816426
0.28170     2.279348   64.822308   0.466527
 0.005082   0.053623   105.876935
0.42254     2.279348   64.822308   0.466527
 0.005082   0.134920   113.976157
0.56339     2.279348   64.822308   0.466527
 0.005082   0.216176   132.593565

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -5.943221   -49.087279  -0.193755
-0.005315   -0.108839   -2.780412
0.14085    -5.943221   -49.087279  -0.193755
-0.005315   -0.034899   -2.869772
0.28170    -5.943221   -49.087279  -0.193755
-0.005315   -0.124502   -3.434831
0.42254    -5.943221   -49.087279  -0.193755
-0.005315   -0.311025   -7.586670
0.56339    -5.943221   -49.087279  -0.193755
-0.005315   -0.498760   -29.341230

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     7.017663   67.523954   0.719702
 0.005180   0.425420   123.886291
0.14085     7.017663   67.523954   0.719702
 0.005180   0.124512   126.667793
0.28170     7.017663   67.523954   0.719702
 0.005180   0.072961   133.367533
0.42254     7.017663   67.523954   0.719702
 0.005180   0.183776   155.564310
0.56339     7.017663   67.523954   0.719702
 0.005180   0.294489   187.643264

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -5.440932   -81.734515  -0.263956
-0.004947   -0.148230   -14.519159
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2409

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
0.14085    -5.440932   -81.734515  -0.263956
-0.004947   -0.044286   -14.095319
0.28170    -5.440932   -81.734515  -0.263956
-0.004947   -0.194183   -14.235086
0.42254    -5.440932   -81.734515  -0.263956
-0.004947   -0.468719   -19.439330
0.56339    -5.440932   -81.734515  -0.263956
-0.004947   -0.781978   -42.645665

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     7.616795   116.569695   1.212995
 0.003753   0.695814   117.322562
0.14085     7.616795   116.569695   1.212995
 0.003753   0.187919   109.602247
0.28170     7.616795   116.569695   1.212995
 0.003753   0.186491   122.915657
0.42254     7.616795   116.569695   1.212995
 0.003753   0.475273   149.132491
0.56339     7.616795   116.569695   1.212995
 0.003753   0.761763   182.732598

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -11.124047   -84.885155  -0.683101
-0.004662   -0.384077   -18.784381
0.14085   -11.124047   -84.885155  -0.683101
-0.004662   -0.102326   -21.762386
0.28170   -11.124047   -84.885155  -0.683101
-0.004662   -0.333049   -50.004526
0.42254   -11.124047   -84.885155  -0.683101
-0.004662   -0.835617   -82.171973
0.56339   -11.124047   -84.885155  -0.683101
-0.004662   -1.339082   -127.416321

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     8.632366   105.011669   1.165597
 0.003804   0.667267   102.994849
0.14085     8.632366   105.011669   1.165597
 0.003804   0.179080    93.326007
0.28170     8.632366   105.011669   1.165597
 0.003804   0.180551   102.818139
0.42254     8.632366   105.011669   1.165597
 0.003804   0.455486   124.393860
0.56339     8.632366   105.011669   1.165597
 0.003804   0.730346   152.114671

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -10.105323   -78.753888  -0.655371
-0.003900   -0.368891   -38.686831
0.14085   -10.105323   -78.753888  -0.655371
-0.003900   -0.098096   -38.227247
0.28170   -10.105323   -78.753888  -0.655371
-0.003900   -0.319989   -58.833380
0.42254   -10.105323   -78.753888  -0.655371
-0.003900   -0.803678   -82.485274
0.56339   -10.105323   -78.753888  -0.655371
-0.003900   -1.288116   -116.855444

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     3.020003   12.403870   0.248630
 0.001071   0.140603    10.304481
0.14085     3.020003   12.403870   0.248630
 0.001071   0.036270    5.884010
0.28170     3.020003   12.403870   0.248630
 0.001071   0.037912    2.798664
0.42254     3.020003   12.403870   0.248630
 0.001071   0.096310    2.168221
0.56339     3.020003   12.403870   0.248630
 0.001071   0.154706    2.655864
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2410

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -1.392805  -10.940031  -0.139248
-1.16E-05   -0.078882   -36.261818
0.14085    -1.392805  -10.940031  -0.139248
-1.16E-05   -0.020477   -32.152909
0.28170    -1.392805  -10.940031  -0.139248
-1.16E-05   -0.067945   -28.305016
0.42254    -1.392805  -10.940031  -0.139248
-1.16E-05   -0.172215   -24.540482
0.56339    -1.392805  -10.940031  -0.139248
-1.16E-05   -0.276474   -20.918315

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     7.052611   21.985909   0.448219
 0.001964   0.254060    17.221599
0.14085     7.052611   21.985909   0.448219
 0.001964   0.066046    12.359568
0.28170     7.052611   21.985909   0.448219
 0.001964   0.063506    13.288043
0.42254     7.052611   21.985909   0.448219
 0.001964   0.161698    19.654845
0.56339     7.052611   21.985909   0.448219
 0.001964   0.259855    27.189041

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -2.255624   -31.291211  -0.234046
-0.000247   -0.132736   -54.761045
0.14085    -2.255624   -31.291211  -0.234046
-0.000247   -0.034839   -46.953497
0.28170    -2.255624   -31.291211  -0.234046
-0.000247   -0.122523   -40.226868
0.42254    -2.255624   -31.291211  -0.234046
-0.000247   -0.310156   -35.890686
0.56339    -2.255624   -31.291211  -0.234046
-0.000247   -0.497822   -34.310816

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     9.443632   24.748025   0.745622
 0.001668   0.422010    59.293990
0.14085     9.443632   24.748025   0.745622
 0.001668   0.109401    77.931858
0.28170     9.443632   24.748025   0.745622
 0.001668   0.081720    101.281544
0.42254     9.443632   24.748025   0.745622
 0.001668   0.206796    129.368327
0.56339     9.443632   24.748025   0.745622
 0.001668   0.331784    158.651742

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -2.588657   -82.415685  -0.298003
-0.000326   -0.168047   -49.222211
0.14085    -2.588657   -82.415685  -0.298003
-0.000326   -0.043418   -45.148026
0.28170    -2.588657   -82.415685  -0.298003
-0.000326   -0.204474   -41.302514
0.42254    -2.588657   -82.415685  -0.298003
-0.000326   -0.516625   -39.219793
0.56339    -2.588657   -82.415685  -0.298003
-0.000326   -0.828838   -39.620220

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     8.532454   99.404703   1.059361
 0.004548   0.610185   117.763562
0.14085     8.532454   99.404703   1.059361
 0.004548   0.166611   103.948490
0.28170     8.532454   99.404703   1.059361
 0.004548   0.151316   105.371612
0.42254     8.532454   99.404703   1.059361
 0.004548   0.381794   123.295556
0.56339     8.532454   99.404703   1.059361
 0.004548   0.612195   149.589176
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2411

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -9.186008   -76.373463  -0.549361
-0.004109   -0.309309   -44.620004
0.14085    -9.186008   -76.373463  -0.549361
-0.004109   -0.083599   -38.759477
0.28170    -9.186008   -76.373463  -0.549361
-0.004109   -0.289571   -49.497313
0.42254    -9.186008   -76.373463  -0.549361
-0.004109   -0.727859   -66.961954
0.56339    -9.186008   -76.373463  -0.549361
-0.004109   -1.166970   -97.063481

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     3.489612   55.891770   1.120439
 4.36E-06   0.626611    3.206449
0.14085     3.489612   55.891770   1.120439
 4.36E-06   0.156432    3.390837
0.28170     3.489612   55.891770   1.120439
 4.36E-06   0.275156    10.183058
0.42254     3.489612   55.891770   1.120439
 4.36E-06   0.697283    19.335045
0.56339     3.489612   55.891770   1.120439
 4.36E-06   1.119510    28.573812

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -6.377370   -22.518518  -1.006484
-0.001493   -0.568727   -33.850711
0.14085    -6.377370   -22.518518  -1.006484
-0.001493   -0.146541   -50.323528
0.28170    -6.377370   -22.518518  -1.006484
-0.001493   -0.312555   -71.156347
0.42254    -6.377370   -22.518518  -1.006484
-0.001493   -0.782610   -94.447966
0.56339    -6.377370   -22.518518  -1.006484
-0.001493   -1.252556   -117.768662

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     4.115415   145.081448   1.819182
 0.006082   1.048204    121.409853
0.14085     4.115415   145.081448   1.819182
 0.006082   0.287311    96.261348
0.28170     4.115415   145.081448   1.819182
 0.006082   0.383994    78.138355
0.42254     4.115415   145.081448   1.819182
```

```
 0.006082    0.970243   81.269001
 0.56339     4.115415  145.081448     1.819182
 0.006082    1.556399   97.350513

COMB DL-G1-2 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000  -14.914699  -45.142293  -1.397548
-0.008258   -0.791735  -26.135573
 0.14085  -14.914699  -45.142293  -1.397548
-0.008258   -0.223809  -47.234805
 0.28170  -14.914699  -45.142293  -1.397548
-0.008258   -0.499756  -73.542733
 0.42254  -14.914699  -45.142293  -1.397548
-0.008258   -1.254011 -107.445174
 0.56339  -14.914699  -45.142293  -1.397548
-0.008258   -2.008737 -165.747037

COMB DL-G1-3 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    7.251470  123.936089   2.010900
 0.004467   1.146607  120.203887
 0.14085    7.251470  123.936089   2.010900
 0.004467   0.304003  119.718219
 0.28170    7.251470  123.936089   2.010900
 0.004467   0.385734  125.863759
 0.42254    7.251470  123.936089   2.010900
 0.004467   0.974552  147.612589
 0.56339    7.251470  123.936089   2.010900
 0.004467   1.563392  178.659497
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    2412

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000  -12.649904  -79.820262   -1.402975
-0.006175   -0.793122  -25.326492
 0.14085  -12.649904  -79.820262   -1.402975
-0.006175   -0.217360  -47.472932
 0.28170  -12.649904  -79.820262   -1.402975
-0.006175   -0.553799  -74.202995
 0.42254  -12.649904  -79.820262   -1.402975
-0.006175   -1.391482 -106.782339
 0.56339  -12.649904  -79.820262   -1.402975
-0.006175   -2.229263 -156.664961

COMB DL-G1-4 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    9.084135  111.541380   1.924899
 0.004315   1.095181  104.212700
 0.14085    9.084135  111.541380   1.924899
 0.004315   0.288646  100.940531
 0.28170    9.084135  111.541380   1.924899
 0.004315   0.358675  106.684665
 0.42254    9.084135  111.541380   1.924899
 0.004315   0.907782  126.883135
 0.56339    9.084135  111.541380   1.924899
 0.004315   1.456602  155.022865

COMB DL-G1-4 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000  -11.261621  -79.071960   -1.308438
-0.005131   -0.740141  -43.007049
 0.14085  -11.261621  -79.071960   -1.308438
-0.005131   -0.201643  -57.485377
 0.28170  -11.261621  -79.071960   -1.308438
-0.005131   -0.530381  -77.838716
 0.42254  -11.261621  -79.071960   -1.308438
-0.005131   -1.332955 -104.239715
 0.56339  -11.261621  -79.071960   -1.308438
-0.005131   -2.135671 -145.208174

COMB DL-G2-1 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    1.806726   54.495970   0.673977
 0.004261   0.399387  119.164803
 0.14085    1.806726   54.495970   0.673977
 0.004261   0.118190  114.124790
 0.28170    1.806726   54.495970   0.673977
 0.004261   0.089073  109.361191
 0.42254    1.806726   54.495970   0.673977
 0.004261   0.227257  117.570954
 0.56339    1.806726   54.495970   0.673977
 0.004261   0.355745  134.819910

COMB DL-G2-1 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000   -6.049552  -46.178196   -0.317884
-0.004549   -0.180239   -3.185306
 0.14085   -6.049552  -46.178196   -0.317884
-0.004549   -0.059683   -2.877025
 0.28170   -6.049552  -46.178196   -0.317884
-0.004549   -0.181850   -3.045922
 0.42254   -6.049552  -46.178196   -0.317884
-0.004549   -0.458235   -6.804412
 0.56339   -6.049552  -46.178196   -0.317884
-0.004549   -0.735020  -27.682502

COMB DL-G2-2 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    6.294956   60.287152   1.020600
 0.004477   0.591199  124.380825
 0.14085    6.294956   60.287152   1.020600
 0.004477   0.164407  127.595716
 0.28170    6.294956   60.287152   1.020600
 0.004477   0.132123  134.173938
 0.42254    6.294956   60.287152   1.020600
 0.004477   0.332521  154.089799
 0.56339    6.294956   60.287152   1.020600
 0.004477   0.532417  182.831822
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    2413

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000   -5.654237  -74.202189   -0.476924
-0.004341   -0.270404  -14.023013
 0.14085   -5.654237  -74.202189   -0.476924
-0.004341   -0.082482  -13.853976
 0.28170   -5.654237  -74.202189   -0.476924
-0.004341   -0.277888  -15.407627
 0.42254   -5.654237  -74.202189   -0.476924
-0.004341   -0.700029  -20.974530
 0.56339   -5.654237  -74.202189   -0.476924
-0.004341   -1.123071  -43.154563

COMB DL-G2-3 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    7.266419  104.641586   1.758185
 0.002892   0.998124  119.212678
 0.14085    7.266419  104.641586   1.758185
 0.002892   0.260920  110.354798
 0.28170    7.266419  104.641586   1.758185
 0.002892   0.305582  124.108739
 0.42254    7.266419  104.641586   1.758185
 0.002892    0.771430  149.796827
 0.56339     7.266419  104.641586     1.758185
 0.002892    1.236469  181.591056

COMB DL-G2-3 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000  -10.663677  -80.802252   -1.109296
-0.003997   -0.626101  -19.801982
 0.14085  -10.663677  -80.802252   -1.109296
-0.003997   -0.168463  -20.598513
 0.28170  -10.663677  -80.802252   -1.109296
-0.003997   -0.483771  -45.646872
 0.42254  -10.663677  -80.802252   -1.109296
-0.003997   -1.217878  -75.871276
 0.56339  -10.663677  -80.802252   -1.109296
-0.003997   -1.952081 -117.182784

COMB DL-G2-4 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    8.295574   96.977305   1.730379
 0.003197   0.981005  106.542436
 0.14085    8.295574   96.977305   1.730379
 0.003197   0.255477   95.213347
 0.28170    8.295574   96.977305   1.730379
 0.003197   0.288268  104.100680
 0.42254    8.295574   96.977305   1.730379
 0.003197   0.729035  125.469928
 0.56339    8.295574   96.977305   1.730379
 0.003197   1.168984  151.909093

COMB DL-G2-4 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000   -9.943998  -76.825210   -1.049188
-0.003349   -0.591987  -42.082576
 0.14085   -9.943998  -76.825210   -1.049188
-0.003349   -0.157590  -39.120849
 0.28170   -9.943998  -76.825210   -1.049188
-0.003349   -0.475964  -57.373212
 0.42254   -9.943998  -76.825210   -1.049188
-0.003349   -1.199907  -81.949095
 0.56339   -9.943998  -76.825210   -1.049188
-0.003349   -1.921943 -115.764457

COMB DL-G3-1 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    2.956017   15.535798   0.430206
 0.001112   0.243014   13.854368
 0.14085    2.956017   15.535798   0.430206
 0.001112   0.061989    8.010822
 0.28170    2.956017   15.535798   0.430206
 0.001112   0.050665    3.387630
 0.42254    2.956017   15.535798   0.430206
 0.001112   0.128412    3.292388
 0.56339    2.956017   15.535798   0.430206
 0.001112   0.206140    4.229837
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    2414

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000   -2.224717  -13.269005   -0.185002
-8.95E-06   -0.103554  -41.517709
 0.14085   -2.224717  -13.269005   -0.185002
-8.95E-06   -0.025178  -36.569661
 0.28170   -2.224717  -13.269005   -0.185002
-8.95E-06   -0.117218  -32.292893
 0.42254   -2.224717  -13.269005   -0.185002
-8.95E-06   -0.297838  -32.026342
 0.56339   -2.224717  -13.269005   -0.185002
-8.95E-06   -0.478363  -32.286805

COMB DL-G3-2 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    7.302745   25.861487   0.741841
 0.001880   0.427739   20.307649
 0.14085    7.302745   25.861487   0.741841
 0.001880   0.106182   13.898739
 0.28170    7.302745   25.861487   0.741841
 0.001880   0.099095   13.854998
 0.42254    7.302745   25.861487   0.741841
 0.001880   0.253514   20.559170
 0.56339    7.302745   25.861487   0.741841
 0.001880   0.407507   28.741973

COMB DL-G3-2 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000   -2.978552  -33.828606   -0.366941
-0.000170   -0.207451  -60.497471
 0.14085   -2.978552  -33.828606   -0.366941
-0.000170   -0.052955  -51.603156
 0.28170   -2.978552  -33.828606   -0.366941
-0.000170   -0.203474  -46.629114
 0.42254   -2.978552  -33.828606   -0.366941
-0.000170   -0.514699  -47.047426
 0.56339   -2.978552  -33.828606   -0.366941
-0.000170   -0.825920  -48.849048

COMB DL-G3-3 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    8.760716   25.533379   1.122680
 0.001405   0.630423   66.029664
 0.14085    8.760716   25.533379   1.122680
 0.001405   0.158803   81.740359
 0.28170    8.760716   25.533379   1.122680
 0.001405   0.136443  102.090732
 0.42254    8.760716   25.533379   1.122680
 0.001405   0.345770  128.071640
 0.56339    8.760716   25.533379   1.122680
 0.001405   0.554234  155.005666

COMB DL-G3-3 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000   -3.333424  -77.789535   -0.497167
-7.81E-06   -0.279253  -54.196680
 0.14085   -3.333424  -77.789535   -0.497167
-7.81E-06   -0.069418  -49.388574
 0.28170   -3.333424  -77.789535   -0.497167
-7.81E-06   -0.308298  -46.276128
 0.42254   -3.333424  -77.789535   -0.497167
-7.81E-06   -0.779432  -48.080546
 0.56339   -3.333424  -77.789535   -0.497167
-7.81E-06   -1.250860  -50.606350

COMB DL-G3-4 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    8.021572   90.121365   1.600043
 0.003571   0.909993  120.025977
 0.14085    8.021572   90.121365   1.600043
 0.003571   0.239261  106.801390
 0.28170    8.021572   90.121365   1.600043
 0.003571   0.240853  108.920573
 0.42254    8.021572   90.121365   1.600043
 0.003571   0.608085  127.356920
 0.56339    8.021572   90.121365   1.600043
 0.003571   0.974926  152.526375
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    2415

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000   -9.573586  -75.016910   -0.874334
-0.003223   -0.492850  -49.561658
 0.14085   -9.573586  -75.016910   -0.874334
-0.003223   -0.132249  -42.415555
 0.28170   -9.573586  -75.016910   -0.874334
-0.003223   -0.438661  -51.159363
 0.42254   -9.573586  -75.016910   -0.874334
-0.003223   -1.106399  -70.211064
 0.56339   -9.573586  -75.016910   -0.874334
-0.003223   -1.774638  -99.875865

COMB     DB ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    9.443632  154.128083   1.403538
 0.006079   0.805900  123.886291
 0.14085    9.443632  154.128083   1.403538
 0.006079   0.218192  126.667793
 0.28170    9.443632  154.128083   1.403538
 0.006079   0.248400  133.367533
 0.42254    9.443632  154.128083   1.403538
 0.006079   0.625865  155.564310
 0.56339    9.443632  154.128083   1.403538
 0.006079   1.003321  187.643264

COMB     DB ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000  -15.434182  -84.885155   -0.900041
-0.008114   -0.506501  -54.761045
 0.14085  -15.434182  -84.885155   -0.900041
-0.008114   -0.137832  -55.233285
 0.28170  -15.434182  -84.885155   -0.900041
-0.008114   -0.385536  -78.532436
 0.42254  -15.434182  -84.885155   -0.900041
-0.008114   -0.966705 -114.527912
 0.56339  -15.434182  -84.885155   -0.900041
-0.008114   -1.548856 -172.685974

COMB     DL ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    9.084135  145.081448   2.010900
 0.006082   1.146607  124.380825
 0.14085    9.084135  145.081448   2.010900
 0.006082   0.304003  127.595716
 0.28170    9.084135  145.081448   2.010900
 0.006082   0.385734  134.173938
 0.42254    9.084135  145.081448   2.010900
 0.006082   0.974552  154.089799
 0.56339    9.084135  145.081448   2.010900
 0.006082   1.562892  182.831822

COMB     DL ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000  -14.914699  -80.802252   -1.402975
-0.008258   -0.793122  -60.497471
 0.14085  -14.914699  -80.802252   -1.402975
-0.008258   -0.223809  -57.485377
 0.28170  -14.914699  -80.802252   -1.402975
-0.008258   -0.553799  -77.838716
 0.42254  -14.914699  -80.802252   -1.402975
-0.008258   -1.391482 -107.445174
 0.56339  -14.914699  -80.802252   -1.402975
-0.008258   -2.229263 -165.747037

COMB     CAR ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    9.443632  154.128083   2.010900
 0.006082   1.146607  124.380825
 0.14085    9.443632  154.128083   2.010900
 0.006082   0.304003  127.595716
 0.28170    9.443632  154.128083   2.010900
 0.006082   0.385734  134.173938
 0.42254    9.443632  154.128083   2.010900
 0.006082   0.974552  155.564310
 0.56339    9.443632  154.128083   2.010900
 0.006082   1.562892  187.643264
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    2416

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000  -15.434182  -84.885155   -1.402975
-0.008258   -0.793122  -60.497471
 0.14085  -15.434182  -84.885155   -1.402975
-0.008258   -0.223809  -57.485377
 0.28170  -15.434182  -84.885155   -1.402975
-0.008258   -0.553799  -78.532436
 0.42254  -15.434182  -84.885155   -1.402975
-0.008258   -1.391482 -114.527912
 0.56339  -15.434182  -84.885155   -1.402975
-0.008258   -2.229263 -172.685974

COMB  DESIGN ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.00000    9.443632  154.128083   2.010900
 0.006082   1.146607  124.380825
 0.14085    9.443632  154.128083   2.010900
 0.006082   0.304003  127.595716
 0.28170    9.443632  154.128083   2.010900
 0.006082   0.385734  134.173938
 0.42254    9.443632  154.128083   2.010900
 0.006082   0.974552  155.564310
 0.56339    9.443632  154.128083   2.010900
 0.006082   1.562892  187.643264

COMB  DESIGN ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.00000  -15.434182  -84.885155   -1.402975
-0.008258   -0.793122  -60.497471
 0.14085  -15.434182  -84.885155   -1.402975
-0.008258   -0.223809  -57.485377
 0.28170  -15.434182  -84.885155   -1.402975
-0.008258   -0.553799  -78.532436
 0.42254  -15.434182  -84.885155   -1.402975
-0.008258   -1.391482 -114.527912
 0.56339  -15.434182  -84.885155   -1.402975
-0.008258   -2.229263 -172.685974

ELEM      218 ================== LENGTH
=     2.977622

COMB DB-G1-1 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.43659    7.443541   37.648906   0.800379
 1.70E-05   0.893504   44.997297
 0.57744    7.443541   37.648906   0.800379
 1.70E-05   0.557821   29.279338
 0.71830    7.443541   37.648906   0.800379
 1.70E-05   0.222158   13.686323
 0.85915    7.443541   37.648906   0.800379
 1.70E-05   0.086692    2.770674
 1.00000    7.443541   37.648906   0.800379
 1.70E-05   0.348279    2.429982

COMB DB-G1-1 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.43659   -1.270694  -31.820366   -0.623592
-0.001508   -0.697896  -60.897066
 0.57744   -1.270694  -31.820366   -0.623592
-0.001508   -0.436361  -47.640512
 0.71830   -1.270694  -31.820366   -0.623592
-0.001508   -0.174832  -34.491163
 0.85915   -1.270694  -31.820366   -0.623592
-0.001508   -0.113464  -21.923350
 1.00000   -1.270694  -31.820366   -0.623592
-0.001508   -0.449250  -19.779188

COMB DB-G1-2 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.43659    8.200482   64.559493   1.235381
 0.005818   1.382968  116.519418
 0.57744    8.200482   64.559493   1.235381
 0.005818   0.864870   91.158663
 0.71830    8.200482   64.559493   1.235381
 0.005818   0.346848   76.976828
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    2417

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P          V2          V3
       T           M2          M3
 0.85915    8.200482   64.559493   1.235381
 0.005818   0.152594   83.251385
 1.00000    8.200482   64.559493   1.235381
 0.005818   0.504580  103.113714

COMB DB-G1-2 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.43659  -16.670769  -116.156668   -0.881614
-0.007701   -0.985663  -105.347159
 0.57744  -16.670769  -116.156668   -0.881614
-0.007701   -0.615938   -62.603651
 0.71830  -16.670769  -116.156668   -0.881614
-0.007701   -0.246218   -42.499721
 0.85915  -16.670769  -116.156668   -0.881614
-0.007701   -0.193927   -27.033115
 1.00000  -16.670769  -116.156668   -0.881614
-0.007701   -0.709121   -12.785060

COMB DB-G1-3 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.43659    9.587565   72.184443   1.393891
 0.004553   1.564259  120.796393
 0.57744    9.587565   72.184443   1.393891
 0.004553   0.979713   96.296302
 0.71830    9.587565   72.184443   1.393891
 0.004553   0.395268   79.736528
 0.85915    9.587565   72.184443   1.393891
 0.004553   0.154646   77.798704
 1.00000    9.587565   72.184443   1.393891
 0.004553   0.542810   90.550520

COMB DB-G1-3 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.43659  -13.434517  -124.618300   -0.953721
-0.005591   -1.064762  -133.988169
 0.57744  -13.434517  -124.618300   -0.953721
-0.005591   -0.664803   -86.071418
 0.71830  -13.434517  -124.618300   -0.953721
-0.005591   -0.264749   -53.774690
 0.85915  -13.434517  -124.618300   -0.953721
-0.005591   -0.205095   -24.011150
 1.00000  -13.434517  -124.618300   -0.953721
-0.005591   -0.787638   -14.867918

COMB DB-G1-4 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.43659    14.929787   72.547185   1.319207
 0.004281   1.480361  124.120736
 0.57744    14.929787   72.547185   1.319207
 0.004281   0.927143   96.489409
 0.71830    14.929787   72.547185   1.319207
 0.004281   0.373991   79.516896
 0.85915    14.929787   72.547185   1.319207
 0.004281   0.145541   72.817397
 1.00000    14.929787   72.547185   1.319207
 0.004281   0.517924   78.764214

COMB DB-G1-4 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.43659  -13.065499  -107.437816   -0.911264
-0.004644   -1.017144  -131.978120
 0.57744  -13.065499  -107.437816   -0.911264
-0.004644   -0.634978   -90.996508
 0.71830  -13.065499  -107.437816   -0.911264
-0.004644   -0.252721   -63.236269
 0.85915  -13.065499  -107.437816   -0.911264
-0.004644   -0.192718   -38.074533
 1.00000  -13.065499  -107.437816   -0.911264
-0.004644   -0.743904   -30.229460

COMB DB-G2-1 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.43659    0.439451   13.835379   0.432513
 0.005132   0.488236   41.121061
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    2418

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P          V2          V3
       T           M2          M3
 0.57744    0.439451   13.835379   0.432513
 0.005132   0.306861   38.573500
 0.71830    0.439451   13.835379   0.432513
 0.005132   0.125550   45.760329
 0.85915    0.439451   13.835379   0.432513
 0.005132   0.069639   70.761391
 1.00000    0.439451   13.835379   0.432513
 0.005132   0.142270  104.376481

COMB DB-G2-1 ------------------- MIN

REL DIST            P          V2          V3
       T           M2          M3
 0.43659  -14.160848  -93.993639   -0.232994
-0.005061   -0.258051   -57.536155
 0.57744  -14.160848  -93.993639   -0.232994
-0.005061   -0.160332   -23.238328
 0.71830  -14.160848  -93.993639   -0.232994
-0.005061   -0.062654    -8.029291
 0.85915  -14.160848  -93.993639   -0.232994
-0.005061   -0.075044    -2.252563
 1.00000  -14.160848  -93.993639   -0.232994
-0.005061   -0.253779    -2.057649

COMB DB-G2-2 ------------------- MAX

REL DIST            P          V2          V3
       T           M2          M3
 0.43659    8.143773   30.540389   0.693187
 0.005429   0.783764   59.575349
 0.57744    8.143773   30.540389   0.693187
 0.005429   0.493118   53.154884
 0.71830    8.143773   30.540389   0.693187
 0.005429   0.202555   55.884767
 0.85915    8.143773   30.540389   0.693187
```

```
 0.005429    0.080403   75.269234
1.00000      8.143773   30.540389     0.693187
 0.005429    0.232244  102.479134

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -11.679362 -109.132982   -0.394719
-0.004710   -0.438609   -93.657303
0.57744  -11.679362 -109.132982   -0.394719
-0.004710   -0.273093   -53.191461
0.71830  -11.679362 -109.132982   -0.394719
-0.004710   -0.107517   -30.720543
0.85915  -11.679362 -109.132982   -0.394719
-0.004710   -0.106847   -11.611613
1.00000  -11.679362 -109.132982   -0.394719
-0.004710   -0.394428   -14.789972

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   10.794984   79.501228    1.203506
 0.004041   1.353638  154.077193
0.57744   10.794984   79.501228    1.203506
 0.004041   0.848966  126.462540
0.71830   10.794984   79.501228    1.203506
 0.004041   0.344368  105.455343
0.85915   10.794984   79.501228    1.203506
 0.004041   0.128417   96.584532
1.00000   10.794984   79.501228    1.203506
 0.004041   0.450026   94.970158

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -17.594402 -107.866368   -0.789730
-0.004206   -0.880967 -117.962712
0.57744  -17.594402 -107.866368   -0.789730
-0.004206   -0.549772   -76.728290
0.71830  -17.594402 -107.866368   -0.789730
-0.004206   -0.218530   -48.504560
0.85915  -17.594402 -107.866368   -0.789730
-0.004206   -0.173787   -23.753526
1.00000  -17.594402 -107.866368   -0.789730
-0.004206   -0.676193   -19.416674
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          2419

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   11.597604   77.632734    1.157854
 0.003859   1.300707  152.941527
0.57744   11.597604   77.632734    1.157854
 0.003859   0.916426  125.208265
0.71830   11.597604   77.632734    1.157854
 0.003859   0.329672  102.990555
0.85915   11.597604   77.632734    1.157854
 0.003859   0.124149   90.895616
1.00000   11.597604   77.632734    1.157854
 0.003859   0.440703   84.716754

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -17.073828  -91.740609   -0.773768
-0.003519   -0.862523 -116.411073
0.57744  -17.073828  -91.740609   -0.773768
-0.003519   -0.538008   -81.358682
0.71830  -17.073828  -91.740609   -0.773768
-0.003519   -0.213427   -57.203658
0.85915  -17.073828  -91.740609   -0.773768
-0.003519   -0.167035   -35.711654
1.00000  -17.073828  -91.740609   -0.773768
-0.003519   -0.650818   -31.629840

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659    1.243422   16.827202    0.250131
 0.000727   0.279369   38.863207
0.57744    1.243422   16.827202    0.250131
 0.000727   0.174463   31.624831
0.71830    1.243422   16.827202    0.250131
 0.000727   0.069546   24.828471
0.85915    1.243422   16.827202    0.250131
 0.000727   0.027992   17.911590
1.00000    1.243422   16.827202    0.250131
 0.000727   0.101837   11.267021

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -4.436935   -2.902627   -0.178065
-6.77E-06   -0.196906   -26.953202
0.57744   -4.436935   -2.902627   -0.178065
-6.77E-06   -0.122227   -25.790551
0.71830   -4.436935   -2.902627   -0.178065
-6.77E-06   -0.047474   -24.691311
0.85915   -4.436935   -2.902627   -0.178065
-6.77E-06   -0.035310   -23.617680
1.00000   -4.436935   -2.902627   -0.178065
-6.77E-06   -0.140276   -22.579325

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   12.172044   32.318089    0.460727
 0.001496   0.517349   64.497357
0.57744   12.172044   32.318089    0.460727
 0.001496   0.324128   51.153663
0.71830   12.172044   32.318089    0.460727
 0.001496   0.130913   38.341163
0.85915   12.172044   32.318089    0.460727
 0.001496   0.048068   27.165507
1.00000   12.172044   32.318089    0.460727
 0.001496   0.182318   17.122295

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -6.329924  -13.559935   -0.321012
-0.000195   -0.356555   -55.431694
0.57744   -6.329924  -13.559935   -0.321012
-0.000195   -0.221903   -50.626267
0.71830   -6.329924  -13.559935   -0.321012
-0.000195   -0.087240   -47.052446
0.85915   -6.329924  -13.559935   -0.321012
-0.000195   -0.063704   -44.156387
1.00000   -6.329924  -13.559935   -0.321012
-0.000195   -0.256197   -41.940444
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          2420

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659    8.407026   39.576517    0.740312
 0.001934   0.833953   75.934354
0.57744    8.407026   39.576517    0.740312
 0.001934   0.523548   64.534910
0.71830    8.407026   39.576517    0.740312
 0.001934   0.213172   54.261193
0.85915    8.407026   39.576517    0.740312
 0.001934   0.070896   46.495828
1.00000    8.407026   39.576517    0.740312
 0.001934   0.264165   46.155612

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -8.735429  -58.127001   -0.462505
-0.000310   -0.512295   -95.752101
0.57744   -8.735429  -58.127001   -0.462505
-0.000310   -0.318323   -72.474513
0.71830   -8.735429  -58.127001   -0.462505
-0.000310   -0.124299   -51.091399
0.85915   -8.735429  -58.127001   -0.462505
-0.000310   -0.099298   -33.301469
1.00000   -8.735429  -58.127001   -0.462505
-0.000310   -0.409044   -35.702895

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659    8.861070   71.701039    1.044903
 0.004469   1.174976  151.010778
0.57744    8.861070   71.701039    1.044903
 0.004469   0.736806  125.725099
0.71830    8.861070   71.701039    1.044903
 0.004469   0.298677  106.885193
0.85915    8.861070   71.701039    1.044903
 0.004469   0.113699   99.802780
1.00000    8.861070   71.701039    1.044903
 0.004469   0.387683   98.694064

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -19.242259  -90.680621   -0.675775
-0.003701   -0.752065 -109.735436
0.57744  -19.242259  -90.680621   -0.675775
-0.003701   -0.468653   -75.552375
0.71830  -19.242259  -90.680621   -0.675775
-0.003701   -0.185174   -54.078641
0.85915  -19.242259  -90.680621   -0.675775
-0.003701   -0.152590   -35.257393
1.00000  -19.242259  -90.680621   -0.675775
-0.003701   -0.588683   -33.433260

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   15.403235   33.599434    1.227811
 1.28E-05   1.368532   41.484316
0.57744   15.403235   33.599434    1.227811
 1.28E-05   0.853469   27.636578
0.71830   15.403235   33.599434    1.227811
 1.28E-05   0.338401   14.095536
0.85915   15.403235   33.599434    1.227811
 1.28E-05   0.130709    3.904733
1.00000   15.403235   33.599434    1.227811
 1.28E-05   0.543725    2.834148

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -2.704688  -43.845015   -0.984785
-0.001580   -1.108282   -90.524716
0.57744   -2.704688  -43.845015   -0.984785
-0.001580   -0.695216   -72.370594
0.71830   -2.704688  -43.845015   -0.984785
-0.001580   -0.282336   -54.466885
0.85915   -2.704688  -43.845015   -0.984785
-0.001580   -0.175803   -38.537569
1.00000   -2.704688  -43.845015   -0.984785
-0.001580   -0.690956   -31.500476
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          2421

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   15.270439   57.863524    1.909429
 0.006096   2.132147  109.274379
0.57744   15.270439   57.863524    1.909429
 0.006096   1.332455   87.284723
0.71830   15.270439   57.863524    1.909429
 0.006096   0.534334   77.691931
0.85915   15.270439   57.863524    1.909429
 0.006096   0.280552   76.385579
1.00000   15.270439   57.863524    1.909429
 0.006096   0.851281  107.615824

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -19.117520 -126.336391   -1.483858
-0.007699   -1.654090 -139.641631
0.57744  -19.117520 -126.336391   -1.483858
-0.007699   -1.033006   -88.601147
0.71830  -19.117520 -126.336391   -1.483858
-0.007699   -0.413691   -61.702052
0.85915  -19.117520 -126.336391   -1.483858
-0.007699   -0.291863   -40.703039
1.00000  -19.117520 -126.336391   -1.483858
-0.007699   -1.090814   -25.693796

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   16.041964   69.262257    2.137971
 0.004846   2.393301  127.402721
0.57744   16.041964   69.262257    2.137971
 0.004846   1.497274  102.035225
0.71830   16.041964   69.262257    2.137971
 0.004846   0.601962   85.786637
0.85915   16.041964   69.262257    2.137971
 0.004846   0.241693   84.023420
1.00000   16.041964   69.262257    2.137971
 0.004846   0.897161   98.665870

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -16.753433 -128.388851   -1.576608
-0.005786   -1.759225 -154.914379
0.57744  -16.753433 -128.388851   -1.576608
-0.005786   -1.098794 -102.776726
0.71830  -16.753433 -128.388851   -1.576608
-0.005786   -0.439352   -67.999452
0.85915  -16.753433 -128.388851   -1.576608
-0.005786   -0.309834   -37.372708
1.00000  -16.753433 -128.388851   -1.576608
-0.005786   -1.206375   -25.605545

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   20.754524   74.479169    2.082197
 0.004531   2.329933  136.188348
0.57744   20.754524   74.479169    2.082197
 0.004531   1.457118  108.223473
0.71830   20.754524   74.479169    2.082197
 0.004531   0.584923   87.914726
0.85915   20.754524   74.479169    2.082197
 0.004531   0.227713   79.873715
1.00000   20.754524   74.479169    2.082197
 0.004531   0.853234   86.119247

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -16.384346 -111.097636   -1.502512
-0.004808   -1.676930 -150.151856
0.57744  -16.384346 -111.097636   -1.502512
-0.004808   -1.047431 -105.198224
0.71830  -16.384346 -111.097636   -1.502512
-0.004808   -0.417863   -74.842924
0.85915  -16.384346 -111.097636   -1.502512
-0.004808   -0.300844   -48.604230
1.00000  -16.384346 -111.097636   -1.502512
-0.004808   -1.173768   -38.886732
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          2422

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659    0.422460   14.749799    0.662205
 0.004503   0.744901   47.126472
0.57744    0.422460   14.749799    0.662205
 0.004503   0.468019   43.777933
0.71830    0.422460   14.749799    0.662205
 0.004503   0.192278   49.754784
0.85915    0.422460   14.749799    0.662205
 0.004503   0.092962   71.953223
1.00000    0.422460   14.749799    0.662205
 0.004503   0.277213   99.606452

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -16.639861  -81.264453   -0.453674
-0.004192   -0.495321   -54.723084
0.57744   -16.639861  -81.264453   -0.453674
-0.004192   -0.305938   -22.461456
0.71830   -16.639861  -81.264453   -0.453674
-0.004192   -0.117724    -7.557215
0.85915   -16.639861  -81.264453   -0.453674
-0.004192   -0.103763    -2.341984
1.00000   -16.639861  -81.264453   -0.453674
-0.004192   -0.379961    -2.213404

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659    8.040301   36.859524    1.081913
 0.004919   1.215806   80.602092
0.57744    8.040301   36.859524    1.081913
 0.004919   0.762574   69.168314
0.71830    8.040301   36.859524    1.081913
 0.004919   0.310126   66.499550
0.85915    8.040301   36.859524    1.081913
 0.004919   0.124304   78.115812
1.00000    8.040301   36.859524    1.081913
 0.004919   0.409305  100.589161

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -14.110007  -93.088502   -0.693750
-0.004001   -0.765495   -84.411357
0.57744   -14.110007  -93.088502   -0.693750
-0.004001   -0.475500   -47.170861
0.71830   -14.110007  -93.088502   -0.693750
-0.004001   -0.186150   -26.536113
0.85915   -14.110007  -93.088502   -0.693750
-0.004001   -0.158790   -10.985115
1.00000   -14.110007  -93.088502   -0.693750
-0.004001   -0.611798   -14.047806

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   12.527774   80.205142    1.866864
 0.003430   2.095161  164.987493
0.57744   12.527774   80.205142    1.866864
 0.003430   1.312384  134.792830
0.71830   12.527774   80.205142    1.866864
 0.003430   0.530084  110.582025
0.85915   12.527774   80.205142    1.866864
 0.003430   0.203791   96.479392
1.00000   12.527774   80.205142    1.866864
 0.003430   0.758606   93.006766

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -19.757818  -99.533875   -1.331634
-0.003498   -1.740872 -140.872292
0.57744  -19.757818  -99.533875   -1.331634
-0.003498   -0.924747   -80.565812
0.71830  -19.757818  -99.533875   -1.331634
-0.003498   -0.367125   -51.350597
0.85915  -19.757818  -99.533875   -1.331634
-0.003498   -0.261298   -26.762016
1.00000  -19.757818  -99.533875   -1.331634
-0.003498   -1.044494   -9.836838
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          2423

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   13.508665   82.550284    1.857240
 0.003362   2.084078  169.512062
0.57744   13.508665   82.550284    1.857240
 0.003362   1.305245  137.918765
0.71830   13.508665   82.550284    1.857240
 0.003362   0.526845  111.402577
0.85915   13.508665   82.550284    1.857240
 0.003362   0.197719   93.417635
1.00000   13.508665   82.550284    1.857240
 0.003362   0.740652   84.584365

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -20.058304  -86.158755   -1.301515
-0.002932   -1.448621 -121.225853
0.57744  -20.058304  -86.158755   -1.301515
-0.002932   -0.902759   -86.468223
0.71830  -20.058304  -86.158755   -1.301515
-0.002932   -0.358174   -61.029172
0.85915  -20.058304  -86.158755   -1.301515
-0.002932   -0.258680   -39.338864
1.00000  -20.058304  -86.158755   -1.301515
-0.002932   -1.037893   -32.913201

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659    2.332190   22.958744    0.473045
 0.000737   0.531961   50.377292
0.57744    2.332190   22.958744    0.473045
 0.000737   0.333552   41.052558
0.71830    2.332190   22.958744    0.473045
 0.000737   0.135027   31.891919
0.85915    2.332190   22.958744    0.473045
 0.000737   0.046556   23.102231
1.00000    2.332190   22.958744    0.473045
 0.000737   0.174758   14.653638

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -8.119917   -5.806832   -0.305174
-3.95E-06   -0.337067   -31.690006
0.57744   -8.119917   -5.806832   -0.305174
-3.95E-06   -0.208949   -29.575014
0.71830   -8.119917   -5.806832   -0.305174
-3.95E-06   -0.080620   -27.674668
0.85915   -8.119917   -5.806832   -0.305174
-3.95E-06   -0.062744   -26.147107
1.00000   -8.119917   -5.806832   -0.305174
-3.95E-06   -0.261387   -24.891297

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   13.862324   44.037634    0.856550
 0.001477   0.959759   85.383320
0.57744   13.862324   44.037634    0.856550
 0.001477   0.600406   67.522753
0.71830   13.862324   44.037634    0.856550
 0.001477   0.241009   50.216499
0.85915   13.862324   44.037634    0.856550
 0.001477   0.079764   34.277259
1.00000   13.862324   44.037634    0.856550
 0.001477   0.306250   20.128884

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -9.972641  -15.871671   -0.540230
-0.000124   -0.600292   -59.339922
0.57744   -9.972641  -15.871671   -0.540230
-0.000124   -0.373621   -53.454632
0.71830   -9.972641  -15.871671   -0.540230
-0.000124   -0.146990   -48.583742
0.85915   -9.972641  -15.871671   -0.540230
-0.000124   -0.118075   -45.477424
1.00000   -9.972641  -15.871671   -0.540230
-0.000124   -0.477000   -44.248764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          2424

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659    9.662603   51.056185    1.235376
 0.001584   1.390692  104.888581
0.57744    9.662603   51.056185    1.235376
 0.001584   0.872341   86.425858
0.71830    9.662603   51.056185    1.235376
 0.001584   0.353352   68.855827
0.85915    9.662603   51.056185    1.235376
 0.001584   0.114859   54.574349
1.00000    9.662603   51.056185    1.235376
 0.001584   0.439354   50.328676

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659   -13.917085  -50.140404   -0.772884
-5.45E-06   -0.857224   -89.215593
0.57744   -13.917085  -50.140404   -0.772884
-5.45E-06   -0.533168   -69.247006
0.71830   -13.917085  -50.140404   -0.772884
-5.45E-06   -0.208396   -50.144593
0.85915   -13.917085  -50.140404   -0.772884
-5.45E-06   -0.161421   -35.828907
1.00000   -13.917085  -50.140404   -0.772884
-5.45E-06   -0.680330   -37.869853

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   10.313476   79.406013    1.706281
 0.003691   1.917033  172.953888
0.57744   10.313476   79.406013    1.706281
 0.003691   1.201699  142.894039
0.71830   10.313476   79.406013    1.706281
 0.003691   0.486530  118.419428
0.85915   10.313476   79.406013    1.706281
 0.003691   0.184175  103.746274
1.00000   10.313476   79.406013    1.706281
 0.003691   0.670617   97.682272

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -23.982456  -81.088150   -1.167571
-0.002786   -1.294478 -110.817229
0.57744  -23.982456  -81.088150   -1.167571
-0.002786   -0.805266   -77.851340
0.71830  -23.982456  -81.088150   -1.167571
-0.002786   -0.316353   -55.746734
0.85915  -23.982456  -81.088150   -1.167571
-0.002786   -0.236946   -38.753440
1.00000  -23.982456  -81.088150   -1.167571
-0.002786   -0.952267   -35.706496

COMB      DB ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   14.929787   79.501228    1.393891
 0.005818   1.564259  154.077193
0.57744   14.929787   79.501228    1.393891
 0.005818   0.979713  126.462540
0.71830   14.929787   79.501228    1.393891
 0.005818   0.395268  106.885193
0.85915   14.929787   79.501228    1.393891
 0.005818   0.154646   99.780780
1.00000   14.929787   79.501228    1.393891
 0.005818   0.542810  104.376481

COMB      DB ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -19.242259 -124.618300   -0.953721
-0.007701   -1.064762 -133.988169
0.57744  -19.242259 -124.618300   -0.953721
-0.007701   -0.664803   -90.996508
0.71830  -19.242259 -124.618300   -0.953721
-0.007701   -0.264749   -63.236269
0.85915  -19.242259 -124.618300   -0.953721
-0.007701   -0.205095   -44.156387
1.00000  -19.242259 -124.618300   -0.953721
-0.007701   -0.787638   -41.940444
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          2425

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43659   20.754524   82.550284    2.137971
 0.006096   2.329301  172.953888
0.57744   20.754524   82.550284    2.137971
 0.006096   1.497274  142.894039
0.71830   20.754524   82.550284    2.137971
 0.006096   0.601962  118.419428
0.85915   20.754524   82.550284    2.137971
 0.006096   0.241693  103.746274
1.00000   20.754524   82.550284    2.137971
 0.006096   0.897161  107.615824

COMB      DL ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43659  -23.982456 -128.388851   -1.576608
```

```
-0.007699   -1.759225 -154.914379
0.57744   -23.982456 -128.388851      -1.576608
-0.007699   -1.098794 -105.198224
0.71830   -23.982456 -128.388851      -1.576608
-0.007699   -0.439352   -74.842924
0.85915   -23.982456 -128.388851      -1.576608
-0.007699   -0.309834   -48.604230
1.00000   -23.982456 -128.388851      -1.576608
-0.007699   -1.206375   -44.248764

COMB      CAR ------------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.43659   20.754524   82.550284    2.137971
 0.006096    2.393301  172.953888
0.57744   20.754524   82.550284    2.137971
 0.006096    1.497274  142.894039
0.71830   20.754524   82.550284    2.137971
 0.006096    0.601962  118.419428
0.85915   20.754524   82.550284    2.137971
 0.006096    0.241693  103.746274
1.00000   20.754524   82.550284    2.137971
 0.006096    0.897161  107.615824

COMB      CAR ------------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.43659 -23.982456 -128.388851      -1.576608
-0.007701   -1.759225 -154.914379
0.57744 -23.982456 -128.388851      -1.576608
-0.007701   -1.098794 -105.198224
0.71830 -23.982456 -128.388851      -1.576608
-0.007701   -0.439352   -74.842924
0.85915 -23.982456 -128.388851      -1.576608
-0.007701   -0.309834   -48.604230
1.00000 -23.982456 -128.388851      -1.576608
-0.007701   -1.206375   -44.248764

COMB    DESIGN ---------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.43659   20.754524   82.550284    2.137971
 0.006096    2.393301  172.953888
0.57744   20.754524   82.550284    2.137971
 0.006096    1.497274  142.894039
0.71830   20.754524   82.550284    2.137971
 0.006096    0.601962  118.419428
0.85915   20.754524   82.550284    2.137971
 0.006096    0.241693  103.746274
1.00000   20.754524   82.550284    2.137971
 0.006096    0.897161  107.615824

COMB    DESIGN ---------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.43659 -23.982456 -128.388851      -1.576608
-0.007701   -1.759225 -154.914379
0.57744 -23.982456 -128.388851      -1.576608
-0.007701   -1.098794 -105.198224
0.71830 -23.982456 -128.388851      -1.576608
-0.007701   -0.439352   -74.842924
0.85915 -23.982456 -128.388851      -1.576608
-0.007701   -0.309834   -48.604230
1.00000 -23.982456 -128.388851      -1.576608
-0.007701   -1.206375   -44.248764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2426

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       219 ========== LENGTH
=     2.977668

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    7.438498   37.250569    0.755503
 7.20E-06    0.419308    2.425612
0.14085    7.438498   37.250569    0.755503
 7.20E-06    0.102603    6.878399
0.28171    7.438498   37.250569    0.755503
 7.20E-06    0.174030   19.673216
0.42256    7.438498   37.250569    0.755503
 7.20E-06    0.245833   32.858485
0.56342    7.438498   37.250569    0.755503
 7.20E-06    0.697637   46.115030

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -1.265092  -31.732669   -0.624208
-0.001485   -0.349577   -19.790627
0.14085   -1.265092  -31.732669   -0.624208
-0.001485   -0.087700   -34.616754
0.28171   -1.265092  -31.732669   -0.624208
-0.001485   -0.174455   -50.064723
0.42256   -1.265092  -31.732669   -0.624208
-0.001485   -0.531329   -65.638138
0.56342   -1.265092  -31.732669   -0.624208
-0.001485   -0.848191   -81.236022

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    7.861145  129.826544    1.229659
 0.005874    0.713361  103.487341
0.14085    7.861145  129.826544    1.229659
 0.005874    0.198983   83.949835
0.28171    7.861145  129.826544    1.229659
 0.005874    0.244100   72.638150
0.42256    7.861145  129.826544    1.229659
 0.005874    0.611266   84.146769
0.56342    7.861145  129.826544    1.229659
 0.005874    0.978410  105.650034

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -18.572324  -54.200923   -0.875370
-0.007610   -0.490172   -12.757658
0.14085  -18.572324  -54.200923   -0.875370
-0.007610   -0.130447   -33.441026
0.28171  -18.572324  -54.200923   -0.875370
-0.007610   -0.341294   -56.418718
0.42256  -18.572324  -54.200923   -0.875370
-0.007610   -0.849891   -87.356952
0.56342  -18.572324  -54.200923   -0.875370
-0.007610   -1.358573  -138.822687

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    9.420236  116.487481    1.422871
 0.004148    0.814419   90.796000
0.14085    9.420236  116.487481    1.422871
 0.004148    0.218607   92.697360
0.28171    9.420236  116.487481    1.422871
 0.004148    0.259425  103.361894
0.42256    9.420236  116.487481    1.422871
 0.004148    0.646424  130.344298
0.56342    9.420236  116.487481    1.422871
 0.004148    1.033359  164.182172

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -14.742449  -82.912922   -0.922574
-0.005529   -0.514414   -14.838372
0.14085  -14.742449  -82.912922   -0.922574
-0.005529   -0.132396   -39.524935
0.28171  -14.742449  -82.912922   -0.922574
-0.005529   -0.394876   -66.964291
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2427

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
           T         M2         M3
0.42256  -14.742449  -82.912922   -0.922574
-0.005529   -0.986772   -99.802434
0.56342  -14.742449  -82.912922   -0.922574
-0.005529   -1.578751  -146.630099

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000   14.800886  109.345016    1.344650
 0.004134    0.767469   78.975316
0.14085   14.800886  109.345016    1.344650
 0.004134    0.204421   77.540690
0.28171   14.800886  109.345016    1.344650
 0.004134    0.247559   86.733426
0.42256   14.800886  109.345016    1.344650
 0.004134    0.617545  109.809921
0.56342   14.800886  109.345016    1.344650
 0.004134    0.987505  138.907081

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -14.155675  -72.942335   -0.882135
-0.004594   -0.492590   -30.208225
0.14085  -14.155675  -72.942335   -0.882135
-0.004594   -0.128275   -50.487482
0.28171  -14.155675  -72.942335   -0.882135
-0.004594   -0.373615   -73.182010
0.42256  -14.155675  -72.942335   -0.882135
-0.004594   -0.933539  -100.743386
0.56342  -14.155675  -72.942335   -0.882135
-0.004594   -1.493528  -141.001093

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    0.165092   69.035935    0.490058
 0.004911    0.299931  104.686516
0.14085    0.165092   69.035935    0.490058
 0.004911    0.095525   93.992122
0.28171    0.165092   69.035935    0.490058
 0.004911    0.058575   83.918964
0.42256    0.165092   69.035935    0.490058
 0.004911    0.143894   92.597170
0.56342    0.165092   69.035935    0.490058
 0.004911    0.229207  109.467109

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -15.787821  -42.506067   -0.203480
-0.004864   -0.112168   -2.045717
0.14085  -15.787821  -42.506067   -0.203480
-0.004864   -0.033170   -4.078365
0.28171  -15.787821  -42.506067   -0.203480
-0.004864   -0.130697   -6.796955
0.42256  -15.787821  -42.506067   -0.203480
-0.004864   -0.230260   -9.515780
0.56342  -15.787821  -42.506067   -0.203480
-0.004864   -0.529896   -42.636923

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    7.968378   81.929367    0.779096
 0.005061    0.460443  102.769704
0.14085    7.968378   81.929367    0.779096
 0.005061    0.134735   98.003154
0.28171    7.968378   81.929367    0.779096
 0.005061    0.102520   95.926596
0.42256    7.968378   81.929367    0.779096
 0.005061    0.253789  112.307664
0.56342    7.968378   81.929367    0.779096
 0.005061    0.405027  136.719043

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -13.217433  -61.550206   -0.360604
-0.004527   -0.200133   -14.778292
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2428

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
           T         M2         M3
0.14085  -13.217433  -61.550206   -0.360604
-0.004527   -0.056566   -21.381054
0.28171  -13.217433  -61.550206   -0.360604
-0.004527   -0.211041   -28.719405
0.42256  -13.217433  -61.550206   -0.360604
-0.004527   -0.532283   -42.702327
0.56342  -13.217433  -61.550206   -0.360604
-0.004527   -0.853559   -73.758754

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000   10.679462  115.287784    1.257563
 0.003677    0.719804   95.160690
0.14085   10.679462  115.287784    1.257563
 0.003677    0.193091   86.637031
0.28171   10.679462  115.287784    1.257563
 0.003677    0.213336   96.170693
0.42256   10.679462  115.287784    1.257563
 0.003677    0.531470  119.965210
0.56342   10.679462  115.287784    1.257563
 0.003677    0.849540  149.726083

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -18.660147  -74.285347   -0.758373
-0.004369   -0.422927   -19.393496
0.14085  -18.660147  -74.285347   -0.758373
-0.004369   -0.111082   -26.287841
0.28171  -18.660147  -74.285347   -0.758373
-0.004369   -0.347880   -55.089373
0.42256  -18.660147  -74.285347   -0.758373
-0.004369   -0.871387   -88.596644
0.56342  -18.660147  -74.285347   -0.758373
-0.004369   -1.394935  -134.403755

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000   11.506174  107.679747    1.198507
 0.003787    0.684208   84.883080
0.14085   11.506174  107.679747    1.198507
 0.003787    0.182106   72.886816
0.28171   11.506174  107.679747    1.198507
 0.003787    0.207125   80.777791
0.42256   11.506174  107.679747    1.198507
 0.003787    0.515085  100.905463
0.56342   11.506174  107.679747    1.198507
 0.003787    0.823034  126.011101

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -17.972202  -63.630947   -0.734224
-0.003655   -0.408878   -31.613211
0.14085  -17.972202  -63.630947   -0.734224
-0.003655   -0.105441   -37.023640
0.28171  -17.972202  -63.630947   -0.734224
-0.003655   -0.331849   -60.523689
0.42256  -17.972202  -63.630947   -0.734224
-0.003655   -0.831237   -87.963905
0.56342  -17.972202  -63.630947   -0.734224
-0.003655   -1.330648  -125.581006

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    1.245852   17.013604    0.246517
 0.001133    0.138227   11.276298
0.14085    1.245852   17.013604    0.246517
 0.001133    0.034773    6.022315
0.28171    1.245852   17.013604    0.246517
 0.001133    0.042609    3.374437
0.42256    1.245852   17.013604    0.246517
 0.001133    0.103521    2.186398
0.56342    1.245852   17.013604    0.246517
 0.001133    0.164282    2.952387
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2429

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -4.446622   -2.861672   -0.144875
-9.53E-06   -0.078722   -22.583408
0.14085   -4.446622   -2.861672   -0.144875
-9.53E-06   -0.018926   -21.592012
0.28171   -4.446622   -2.861672   -0.144875
-9.53E-06   -0.068573   -20.685349
0.42256   -4.446622   -2.861672   -0.144875
-9.53E-06   -0.117971   -19.896462
0.56342   -4.446622   -2.861672   -0.144875
-9.53E-06   -0.275357   -19.182641

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000   12.186956   34.568611    0.470714
 0.002063    0.264391   17.149842
0.14085   12.186956   34.568611    0.470714
 0.002063    0.066923    9.046314
0.28171   12.186956   34.568611    0.470714
 0.002063    0.082112    6.326777
0.42256   12.186956   34.568611    0.470714
 0.002063    0.203290    8.666387
0.56342   12.186956   34.568611    0.470714
 0.002063    0.324335   12.218066

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -6.405275  -11.875951   -0.288607
-0.000188   -0.160039   -41.948777
0.14085   -6.405275  -11.875951   -0.288607
-0.000188   -0.042978   -40.754790
0.28171   -6.405275  -11.875951   -0.288607
-0.000188   -0.131187   -41.438592
0.42256   -6.405275  -11.875951   -0.288607
-0.000188   -0.328399   -43.373013
0.56342   -6.405275  -11.875951   -0.288607
-0.000188   -0.525597   -47.286495

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    8.474980   43.117607    0.793829
 0.001886    0.448161   46.177848
0.14085    8.474980   43.117607    0.793829
 0.001886    0.115300   56.551747
0.28171    8.474980   43.117607    0.793829
 0.001886    0.115107   72.009962
0.42256    8.474980   43.117607    0.793829
 0.001886    0.282664   93.293187
0.56342    8.474980   43.117607    0.793829
 0.001886    0.450036  115.615070

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -8.867561  -55.674548   -0.399057
-0.000298   -0.095232   -35.320194
0.14085   -8.867561  -55.674548   -0.399057
-0.000298   -0.053999   -41.330627
0.28171   -8.867561  -55.674548   -0.399057
-0.000298   -0.218940   -47.177460
0.42256   -8.867561  -55.674548   -0.399057
-0.000298   -0.551491   -53.841764
0.56342   -8.867561  -55.674548   -0.399057
-0.000298   -0.884076   -62.482452

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    8.745522  107.437642    1.098892
 0.004520    0.631768   98.896734
0.14085    8.745522  107.437642    1.098892
 0.004520    0.171566   81.451166
0.28171    8.745522  107.437642    1.098892
 0.004520    0.177262   79.178726
0.42256    8.745522  107.437642    1.098892
 0.004520    0.439223   95.641818
0.56342    8.745522  107.437642    1.098892
 0.004520    0.701019  118.105633
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2430

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -20.326757  -57.370426   -0.624188
-0.003814   -0.346229   -33.420749
0.14085  -20.326757  -57.370426   -0.624188
-0.003814   -0.089658   -34.804041
0.28171  -20.326757  -57.370426   -0.624188
-0.003814   -0.302585   -52.476432
0.42256  -20.326757  -57.370426   -0.624188
-0.003814   -0.759618   -76.214507
0.56342  -20.326757  -57.370426   -0.624188
-0.003814   -1.216667  -111.917506

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000   15.385607   33.250257    1.127039
 4.29E-06    0.622011    2.825799
0.14085   15.385607   33.250257    1.127039
 4.29E-06    0.148917    6.307418
0.28171   15.385607   33.250257    1.127039
 4.29E-06    0.292626   22.232747
0.42256   15.385607   33.250257    1.127039
 4.29E-06    0.744259   39.963916
0.56342   15.385607   33.250257    1.127039
 4.29E-06    1.195769   58.051320

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -2.675034  -43.757288   -1.076645
-0.001638   -0.610399   -31.494525
0.14085   -2.675034  -43.757288   -1.076645
-0.001638   -0.158830   -33.394096
0.28171   -2.675034  -43.757288   -1.076645
-0.001638   -0.322666   -45.110512
0.42256   -2.675034  -43.757288   -1.076645
-0.001638   -0.795486   -58.514680
0.56342   -2.675034  -43.757288   -1.076645
-0.001638   -1.268238   -72.224507

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000   14.821346  121.054377    1.908215
 0.005864    1.095142  107.671394
0.14085   14.821346  121.054377    1.908215
 0.005864    0.297084   85.413009
0.28171   14.821346  121.054377    1.908215
 0.005864    0.413500   77.324678
0.42256   14.821346  121.054377    1.908215
 0.005864    1.041570   91.913729
0.56342   14.821346  121.054377    1.908215
 0.005864    1.669556  117.596271

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -22.073491  -65.624223   -1.497435
-0.008178   -0.846152   -25.677590
0.14085  -22.073491  -65.624223   -1.497435
-0.008178   -0.234901   -31.542728
0.28171  -22.073491  -65.624223   -1.497435
-0.008178   -0.529277   -49.234693
0.42256  -22.073491  -65.624223   -1.497435
-0.008178   -1.323358   -78.059035
0.56342  -22.073491  -65.624223   -1.497435
-0.008178   -2.117447  -127.198078

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000   15.777041  114.107343    2.161642
 0.004353    1.227944   98.100710
0.14085   15.777041  114.107343    2.161642
 0.004353    0.321635   93.932861
0.28171   15.777041  114.107343    2.161642
 0.004353    0.437486  103.153272
0.42256   15.777041  114.107343    2.161642
 0.004353    1.099449  128.895808
0.56342   15.777041  114.107343    2.161642
 0.004353    1.760932  162.490085
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2431

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -18.882441  -85.637024   -1.577269
-0.006144   -0.887688   -25.573015
0.14085   -18.882441  -85.637024   -1.577269
-0.006144   -0.237799   -37.963474
0.28171   -18.882441  -85.637024   -1.577269
-0.006144   -0.600399   -61.052928
0.42256   -18.882441  -85.637024   -1.577269
-0.006144   -1.503302   -92.325239
0.56342   -18.882441  -85.637024   -1.577269
-0.006144   -2.405686  -138.026300

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000   20.543929  111.762073    2.090066
 0.004294    1.183721   86.157217
0.14085   20.543929  111.762073    2.090066
 0.004294    0.307492   78.550949
0.28171   20.543929  111.762073    2.090066
 0.004294    0.418330   86.866721
0.42256   20.543929  111.762073    2.090066
 0.004294    1.053766  109.424363
0.56342   20.543929  111.762073    2.090066
 0.004294    1.688887  138.827167

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -18.167487  -75.799401   -1.514137
-0.005106   -0.85343    -38.553449
0.14085  -18.167487  -75.799401   -1.514137
-0.005106   -0.228372   -50.931432
0.28171  -18.167487  -75.799401   -1.514137
-0.005106   -0.581737   -75.000429
0.42256  -18.167487  -75.799401   -1.514137
-0.005106   -1.455266  -106.142156
0.56342  -18.167487  -75.799401   -1.514137
-0.005106   -2.328420  -149.345612

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    0.126930   59.460797    0.775916
 0.004108    0.462463   99.644688
0.14085    0.126930   59.460797    0.775916
 0.004108    0.139095   91.576279
0.28171    0.126930   59.460797    0.775916
 0.004108    0.105515   84.075982
0.42256    0.126930   59.460797    0.775916
 0.004108    0.256648   91.287577
0.56342    0.126930   59.460797    0.775916
 0.004108    0.407844  106.168335

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -18.741362  -39.172022   -0.360648
-0.004406   -0.199824   -2.199110
0.14085  -18.741362  -39.172022   -0.360648
-0.004406   -0.060612   -3.941979
0.28171  -18.741362  -39.172022   -0.360648
-0.004406   -0.205515   -6.463182
0.42256  -18.741362  -39.172022   -0.360648
-0.004406   -0.526443   -15.783246
0.56342  -18.741362  -39.172022   -0.360648
-0.004406   -0.847419   -39.274971

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000    7.835179   79.624457    1.186959
 0.004395    0.688356  100.631539
0.14085    7.835179   79.624457    1.186959
 0.004395    0.191510   95.269917
0.28171    7.835179   79.624457    1.186959
 0.004395    0.176980   92.678908
0.42256    7.835179   79.624457    1.186959
 0.004395    0.438922  104.813071
0.56342    7.835179   79.624457    1.186959
 0.004395    0.700484  124.611349
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2432

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000  -16.169164  -53.212272   -0.623889
```

```
-0.004205   -0.348688   -14.029290
0.14085   -16.169164   -53.212272   -0.623889
-0.004205   -0.099088   -22.615575
0.28171   -16.169164   -53.212272   -0.623889
-0.004205   -0.321809   -32.730039
0.42256   -16.169164   -53.212272   -0.623889
-0.004205   -0.815973   -49.547139
0.56342   -16.169164   -53.212272   -0.623889
-0.004205   -1.309851   -79.997301

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   12.395330  107.373039    1.943380
0.002976   1.102446   93.019745
0.14085   12.395330  107.373039    1.943380
0.002976   0.287410   84.763022
0.28171   12.395330  107.373039    1.943380
0.002976   0.359786   97.264187
0.42256   12.395330  107.373039    1.943380
0.002976   0.899796  120.648892
0.56342   12.395330  107.373039    1.943380
0.002976   1.439405  149.366100

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -21.086515  -73.727192   -1.286828
-0.003971   -0.721209   -19.806807
0.14085  -21.086515  -73.727192   -1.286828
-0.003971   -0.199426   -6.007475
0.28171  -21.086515  -73.727192   -1.286828
-0.003971   -0.536183   -54.350714
0.42256  -21.086515  -73.727192   -1.286828
-0.003971   -1.349370   -87.899720
0.56342  -21.086515  -73.727192   -1.286828
-0.003971   -2.161956  -130.427461

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   13.407416  105.469243    1.924979
0.003259   1.08951 2   84.604027
0.14085   13.407416  105.469243    1.924979
0.003259   0.282383   71.820359
0.28171   13.407416  105.469243    1.924979
0.003259   0.349142   82.272217
0.42256   13.407416  105.469243    1.924979
0.003259   0.873286  102.573989
0.56342   13.407416  105.469243    1.924979
0.003259   1.396781  127.298849

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -21.194054  -64.538067   -1.248194
-0.003327   -0.698212   -32.891658
0.14085  -21.194054  -64.538067   -1.248194
-0.003327   -0.181382   -37.672099
0.28171  -21.194054  -64.538067   -1.248194
-0.003327   -0.531993   -65.114869
0.42256  -21.194054  -64.538067   -1.248194
-0.003327   -1.337794   -97.622216
0.56342  -21.194054  -64.538067   -1.248194
-0.003327   -2.143060  -137.723805

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    2.348115   23.193742    0.500820
0.001211   0.281826   14.666010
0.14085    2.348115   23.193742    0.500820
0.001211   0.070962    7.414720
0.28171    2.348115   23.193742    0.500820
0.001211   0.072039    4.214687
0.42256    2.348115   23.193742    0.500820
0.001211   0.178296    4.844136
0.56342    2.348115   23.193742    0.500820
0.001211   0.283557    6.039412
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2433

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -8.156651   -5.832762   -0.251254
-6.84E-06   -0.137655   -24.899028
0.14085   -8.156651   -5.832762   -0.251254
-6.84E-06   -0.032070   -24.228460
0.28171   -8.156651   -5.832762   -0.251254
-6.84E-06   -0.137911   -26.583423
0.42256   -8.156651   -5.832762   -0.251254
-6.84E-06   -0.348005   -32.336778
0.56342   -8.156651   -5.832762   -0.251254
-6.84E-06   -0.558137   -38.474509

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   13.880699   45.620673    0.865563
0.002054   0.484553   20.152060
0.14085   13.880699   45.620673    0.865563
0.002054   0.121574    9.846275
0.28171   13.880699   45.620673    0.865563
0.002054   0.142676    7.192746
0.42256   13.880699   45.620673    0.865563
0.002054   0.358849   10.507940
0.56342   13.880699   45.620673    0.865563
0.002054   0.574663   15.511310

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -10.089207  -14.985723   -0.514374
-0.000131   -0.288136   -44.261279
0.14085  -10.089207  -14.985723   -0.514374
-0.000131   -0.075250   -46.551988
0.28171  -10.089207  -14.985723   -0.514374
-0.000131   -0.224014   -54.858413
0.42256  -10.089207  -14.985723   -0.514374
-0.000131   -0.604061   -67.685436
0.56342  -10.089207  -14.985723   -0.514374
-0.000131   -0.967187   -81.582794

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    9.752609   51.405762    1.315583
0.001668   0.738619   50.336231
0.14085    9.752609   51.405762    1.315583
0.001668   0.186034   57.047347
0.28171    9.752609   51.405762    1.315583
0.001668   0.196654   70.410580
0.42256    9.752609   51.405762    1.315583
0.001668   0.487372   88.530635
0.56342    9.752609   51.405762    1.315583
0.001668   0.777184  107.860167

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -14.000589  -50.915179   -0.691200
-7.86E-06   -0.382319   -37.867077
0.14085  -14.000589  -50.915179   -0.691200
-7.86E-06   -0.092945   -45.502724
0.28171  -14.000589  -50.915179   -0.691200
-7.86E-06   -0.362330   -57.765094
0.42256  -14.000589  -50.915179   -0.691200
-7.86E-06   -0.914832   -73.493158
0.56342  -14.000589  -50.915179   -0.691200
-7.86E-06   -1.467032   -89.609717

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   10.210566  104.414422    1.813836
0.003704   1.031726   97.708543
0.14085   10.210566  104.414422    1.813836
0.003704   0.271174   81.371771
0.28171   10.210566  104.414422    1.813836
0.003704   0.301346   82.412697
0.42256   10.210566  104.414422    1.813836
0.003704   0.748712   98.315918
0.56342   10.210566  104.414422    1.813836
0.003704   1.195661  119.885747
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2434

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -25.233018  -57.638362   -1.065412
-0.003172   -0.593079   -35.694327
0.14085  -25.233018  -57.638362   -1.065412
-0.003172   -0.153410   -38.470550
0.28171  -25.233018  -57.638362   -1.065412
-0.003172   -0.497466   -59.760126
0.42256  -25.233018  -57.638362   -1.065412
-0.003172   -1.256230   -89.788290
0.56342  -25.233018  -57.638362   -1.065412
-0.003172   -2.014841  -128.308504

COMB    DB ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   14.800886  129.826544    1.422871
0.005874   0.814419  104.686516
0.14085   14.800886  129.826544    1.422871
0.005874   0.218607   98.003154
0.28171   14.800886  129.826544    1.422871
0.005874   0.259425  103.361894
0.42256   14.800886  129.826544    1.422871
0.005874   0.646424  130.344298
0.56342   14.800886  129.826544    1.422871
0.005874   1.033359  164.182172

COMB    DB ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -20.326757  -82.912922   -0.922574
-0.007610   -0.514414   -41.948777
0.14085  -20.326757  -82.912922   -0.922574
-0.007610   -0.132396   -50.487482
0.28171  -20.326757  -82.912922   -0.922574
-0.007610   -0.394876   -73.182010
0.42256  -20.326757  -82.912922   -0.922574
-0.007610   -0.986772  -100.743386
0.56342  -20.326757  -82.912922   -0.922574
-0.007610   -1.578751  -146.630099

COMB    DL ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   20.543929  121.054377    2.161642
0.005864   1.227944  107.671394
0.14085   20.543929  121.054377    2.161642
0.005864   0.321635   95.269917
0.28171   20.543929  121.054377    2.161642
0.005864   0.437486  103.361894
0.42256   20.543929  121.054377    2.161642
0.005864   1.099449  128.895808
0.56342   20.543929  121.054377    2.161642
0.005864   1.760932  162.490085

COMB    DL ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -25.233018  -85.637024   -1.577269
-0.008178   -0.887688   -44.261279
0.14085  -25.233018  -85.637024   -1.577269
-0.008178   -0.237799   -50.931432
0.28171  -25.233018  -85.637024   -1.577269
-0.008178   -0.600399   -75.000429
0.42256  -25.233018  -85.637024   -1.577269
-0.008178   -1.503302   -106.142156
0.56342  -25.233018  -85.637024   -1.577269
-0.008178   -2.405686   -149.345612

COMB    CAR ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   20.543929  129.826544    2.161642
0.005874   1.227944  107.671394
0.14085   20.543929  129.826544    2.161642
0.005874   0.321635   98.003154
0.28171   20.543929  129.826544    2.161642
0.005874   0.437486  103.361894
0.42256   20.543929  129.826544    2.161642
0.005874   1.099449  130.344298
0.56342   20.543929  129.826544    2.161642
0.005874   1.760932  164.182172
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2435

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB    CAR ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -25.233018  -85.637024   -1.577269
-0.008178   -0.887688   -44.261279
0.14085  -25.233018  -85.637024   -1.577269
-0.008178   -0.237799   -50.931432
0.28171  -25.233018  -85.637024   -1.577269
-0.008178   -0.600399   -75.000429
0.42256  -25.233018  -85.637024   -1.577269
-0.008178   -1.503302   -106.142156
0.56342  -25.233018  -85.637024   -1.577269
-0.008178   -2.405686   -149.345612

COMB  DESIGN ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   20.543929  129.826544    2.161642
0.005874   1.227944  107.671394
0.14085   20.543929  129.826544    2.161642
0.005874   0.321635   98.003154
0.28171   20.543929  129.826544    2.161642
0.005874   0.437486  103.361894
0.42256   20.543929  129.826544    2.161642
0.005874   1.099449  130.344298
0.56342   20.543929  129.826544    2.161642
0.005874   1.760932  164.182172

COMB  DESIGN ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -25.233018  -85.637024   -1.577269
-0.008178   -0.887688   -44.261279
0.14085  -25.233018  -85.637024   -1.577269
-0.008178   -0.237799   -50.931432
0.28171  -25.233018  -85.637024   -1.577269
-0.008178   -0.600399   -75.000429
0.42256  -25.233018  -85.637024   -1.577269
-0.008178   -1.503302   -106.142156
0.56342  -25.233018  -85.637024   -1.577269
-0.008178   -2.405686   -149.345612

ELEM      220 ========== LENGTH
=     2.977852

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656   16.294857   3.539152    0.806521
0.000502   0.870538   6.062409
0.57742   16.294857   3.539152    0.806521
0.000502   0.532246   4.889246
0.71828   16.294857   3.539152    0.806521
0.000502   0.193894   3.736276
0.85914   16.294857   3.539152    0.806521
0.000502   0.113431   2.640381
1.00000   16.294857   3.539152    0.806521
0.000502   0.383716   1.802448

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656   -2.636022  -43.682403   -0.644378
-0.001356   -0.697470   -61.631946
0.57742   -2.636022  -43.682403   -0.644378
-0.001356   -0.427179   -63.349464
0.71828   -2.636022  -43.682403   -0.644378
-0.001356   -0.156882   -45.111838
0.85914   -2.636022  -43.682403   -0.644378
-0.001356   -0.144287   -27.183603
1.00000   -2.636022  -43.682403   -0.644378
-0.001356   -0.482704   -12.727170

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656   16.649294  28.178863    1.234916
0.005682   1.336687   48.555032
0.57742   16.649294  28.178863    1.234916
0.005682   0.818691   38.079890
0.71828   16.649294  28.178863    1.234916
0.005682   0.300694   36.593172
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2436

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
0.85914   16.649294  28.178863    1.234916
0.005682   0.188172   56.024347
1.00000   16.649294  28.178863    1.234916
0.005682   0.577448   81.629100

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656   -29.968704  -116.732511   -0.946865
-0.005406   -1.021283   -124.978916
0.57742   -29.968704  -116.732511   -0.946865
-0.005406   -0.624120   -80.967624
0.71828   -29.968704  -116.732511   -0.946865
-0.005406   -0.227244   -51.844933
0.85914   -29.968704  -116.732511   -0.946865
-0.005406   -0.122847   -30.521244
1.00000   -29.968704  -116.732511   -0.946865
-0.005406   -0.735407   -12.328938

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656   15.132290  47.447040    1.394299
0.004567   1.512113   78.169262
0.57742   15.132290  47.447040    1.394299
0.004567   0.927291   58.771049
0.71828   15.132290  47.447040    1.394299
0.004567   0.342490   45.703164
0.85914   15.132290  47.447040    1.394299
0.004567   0.210061   51.751648
1.00000   15.132290  47.447040    1.394299
0.004567   0.667304   63.978252

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656  -23.388638  -98.675568   -1.102602
-0.004008   -1.189505   -117.239588
0.57742  -23.388638  -98.675568   -1.102602
-0.004008   -0.727004   -79.197092
0.71828  -23.388638  -98.675568   -1.102602
-0.004008   -0.264629   -51.414990
0.85914  -23.388638  -98.675568   -1.102602
-0.004008   -0.250091   -28.480321
1.00000  -23.388638  -98.675568   -1.102602
-0.004008   -0.827415   -12.277838

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656   27.348401  57.116076    1.336580
0.004237   1.449007   95.152407
0.57742   27.348401  57.116076    1.336580
0.004237   0.888405   71.814908
0.71828   27.348401  57.116076    1.336580
0.004237   0.327816   53.922266
0.85914   27.348401  57.116076    1.336580
0.004237   0.207163   51.936305
1.00000   27.348401  57.116076    1.336580
0.004237   0.665074   55.887678

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656  -22.922322  -83.670388   -1.102017
-0.003504   -1.189612   -100.538774
0.57742  -22.922322  -83.670388   -1.102017
-0.003504   -0.727357   -68.225182
0.71828  -22.922322  -83.670388   -1.102017
-0.003504   -0.265165   -46.794192
0.85914  -22.922322  -83.670388   -1.102017
-0.003504   -0.239192   -31.485730
1.00000  -22.922322  -83.670388   -1.102017
-0.003504   -0.793615   -22.416480

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656    0.157925  20.035201    0.425450
0.004578   0.464271  39.250873
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2437

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
0.57742    0.157925  20.035201    0.425450
0.004578   0.285834  32.090361
0.71828    0.157925  20.035201    0.425450
0.004578   0.107399  34.236822
0.85914    0.157925  20.035201    0.425450
0.004578   0.075377  53.366939
1.00000    0.157925  20.035201    0.425450
0.004578   0.201291  76.983190

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656  -30.947457  -71.740127   -0.316040
-0.003305   -0.337432   -44.584046
0.57742  -30.947457  -71.740127   -0.316040
-0.003305   -0.204865   -18.930818
0.71828  -30.947457  -71.740127   -0.316040
-0.003305   -0.072569   -5.684598
0.85914  -30.947457  -71.740127   -0.316040
-0.003305   -0.080577   -1.121476
1.00000  -30.947457  -71.740127   -0.316040
-0.003305   -0.249676   -1.526142

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656   11.946593  47.419516    0.696184
0.004848   0.759285  80.593563
0.57742   11.946593  47.419516    0.696184
0.004848   0.467309  61.457804
0.71828   11.946593  47.419516    0.696184
0.004848   0.175399  49.832212
0.85914   11.946593  47.419516    0.696184
0.004848   0.118650  59.720726
1.00000   11.946593  47.419516    0.696184
0.004848   0.352033  72.444808

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656  -25.595466  -65.213294   -0.570656
-0.003134   -0.613260   -44.505523
0.57742  -25.595466  -65.213294   -0.570656
-0.003134   -0.373991   -22.965344
0.71828  -25.595466  -65.213294   -0.570656
-0.003134   -0.134675   -10.467137
0.85914  -25.595466  -65.213294   -0.570656
-0.003134   -0.125607   -7.117689
1.00000  -25.595466  -65.213294   -0.570656
-0.003134   -0.408862   -11.390032

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656   17.610152  70.741680    1.206204
0.003950   1.310124  130.088486
0.57742   17.610152  70.741680    1.206204
0.003950   0.804181  100.995871
0.71828   17.610152  70.741680    1.206204
0.003950   0.298265  77.454343
0.85914   17.610152  70.741680    1.206204
0.003950   0.181874  70.281921
1.00000   17.610152  70.741680    1.206204
0.003950   0.579421  65.721200

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656  -35.542854  -74.873050   -0.957755
-0.002998   -1.033105   -81.822096
0.57742  -35.542854  -74.873050   -0.957755
-0.002998   -0.631362   -53.209262
0.71828  -35.542854  -74.873050   -0.957755
-0.002998   -0.229704   -34.264063
0.85914  -35.542854  -74.873050   -0.957755
-0.002998   -0.213993   -21.072399
1.00000  -35.542854  -74.873050   -0.957755
-0.002998   -0.713758   -15.232108
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2438

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656   18.813840  72.407681    1.178238
0.003728   1.278769  135.399966
0.57742   18.813840  72.407681    1.178238
0.003728   0.784578  105.486530
0.71828   18.813840  72.407681    1.178238
0.003728   0.290363  80.118850
0.85914   18.813840  72.407681    1.178238
0.003728   0.183997  68.569973
1.00000   18.813840  72.407681    1.178238
0.003728   0.591699  59.127834

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656  -34.221891  -63.894799   -0.980213
-0.002725   -1.057601   -71.401693
0.57742  -34.221891  -63.894799   -0.980213
-0.002725   -0.646457   -46.935519
0.71828  -34.221891  -63.894799   -0.980213
-0.002725   -0.235330   -32.596976
0.85914  -34.221891  -63.894799   -0.980213
-0.002725   -0.209085   -22.932835
1.00000  -34.221891  -63.894799   -0.980213
-0.002725   -0.698183   -19.323899

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656    2.621188  18.397872    0.279705
0.000658   0.302469  39.142115
0.57742    2.621188  18.397872    0.279705
0.000658   0.185143  31.462210
0.71828    2.621188  18.397872    0.279705
0.000658   0.067805  23.809370
0.85914    2.621188  18.397872    0.279705
0.000658   0.050410  16.217402
1.00000    2.621188  18.397872    0.279705
0.000658   0.167718   8.794419

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656   -8.748881  -2.748303   -0.279521
-0.000357   -0.301310   -7.398714
0.57742   -8.748881  -2.748303   -0.279521
-0.000357   -0.184074   -7.077902
0.71828   -8.748881  -2.748303   -0.279521
-0.000357   -0.066740   -6.904912
0.85914   -8.748881  -2.748303   -0.279521
-0.000357   -0.049458   -7.021390
1.00000   -8.748881  -2.748303   -0.279521
-0.000357   -0.166835   -7.347621

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43656   24.057167  42.556514    0.506737
0.001340   0.548814  77.034052
0.57742   24.057167  42.556514    0.506737
0.001340   0.336256  59.606066
0.71828   24.057167  42.556514    0.506737
0.001340   0.123697  42.615797
0.85914   24.057167  42.556514    0.506737
0.001340   0.089899  26.767108
1.00000   24.057167  42.556514    0.506737
0.001340   0.300307  13.035611

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43656  -12.206691  -5.743640   -0.501942
-0.000600   -0.542222   -9.430928
0.57742  -12.206691  -5.743640   -0.501942
-0.000600   -0.331677   -9.152295
0.71828  -12.206691  -5.743640   -0.501942
-0.000600   -0.121079   -11.648277
0.85914  -12.206691  -5.743640   -0.501942
-0.000600   -0.089233   -17.284253
1.00000  -12.206691  -5.743640   -0.501942
-0.000600   -0.301419   -24.472901
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	11.795620	55.071729	0.775503
0.001796	0.843329	98.762704	
0.57742	11.795620	55.071729	0.775503
0.001796	0.518034	75.908413	
0.71828	11.795620	55.071729	0.775503
0.001796	0.192849	54.242243	
0.85914	11.795620	55.071729	0.775503
0.001796	0.129608	39.128647	
1.00000	11.795620	55.071729	0.775503
0.001796	0.428076	26.561588	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-18.494259	-22.816068	-0.712112
-0.000617	-0.767306	-27.839235	
0.57742	-18.494259	-22.816068	-0.712112
-0.000617	-0.468602	-20.379808	
0.71828	-18.494259	-22.816068	-0.712112
-0.000617	-0.169810	-15.211597	
0.85914	-18.494259	-22.816068	-0.712112
-0.000617	-0.133194	-12.832922	
1.00000	-18.494259	-22.816068	-0.712112
-0.000617	-0.457853	-16.868125	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	12.359824	74.329135	1.070383
0.004163	1.162728	143.640820	
0.57742	12.359824	74.329135	1.070383
0.004163	0.713774	112.988616	
0.71828	12.359824	74.329135	1.070383
0.004163	0.264835	87.642592	
0.85914	12.359824	74.329135	1.070383
0.004163	0.171994	77.688392	
1.00000	12.359824	74.329135	1.070383
0.004163	0.545040	69.832266	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-40.234099	-60.060250	-0.899220
-0.002841	-0.969195	-57.384304	
0.57742	-40.234099	-60.060250	-0.899220
-0.002841	-0.592006	-36.338507	
0.71828	-40.234099	-60.060250	-0.899220
-0.002841	-0.214882	-24.545295	
0.85914	-40.234099	-60.060250	-0.899220
-0.002841	-0.190386	-17.939464	
1.00000	-40.234099	-60.060250	-0.899220
-0.002841	-0.633275	-17.339294	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	37.688114	7.507307	1.285402
0.000477	1.385860	10.713794	
0.57742	37.688114	7.507307	1.285402
0.000477	0.846520	8.520829	
0.71828	37.688114	7.507307	1.285402
0.000477	0.307159	6.351202	
0.85914	37.688114	7.507307	1.285402
0.000477	0.188644	4.269884	
1.00000	37.688114	7.507307	1.285402
0.000477	0.653724	2.354838	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-4.523472	-69.302795	-1.108496
-0.001494	-1.206195	-138.141006	
0.57742	-4.523472	-69.302795	-1.108496
-0.001494	-0.741211	-109.422139	
0.71828	-4.523472	-69.302795	-1.108496
-0.001494	-0.276235	-80.730749	
0.85914	-4.523472	-69.302795	-1.108496
-0.001494	-0.230626	-52.236424	
1.00000	-4.523472	-69.302795	-1.108496
-0.001494	-0.770411	-25.188122	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	34.785568	31.877563	2.008055
0.005767	2.169456	60.815393	
0.57742	34.785568	31.877563	2.008055
0.005767	1.326917	48.664660	
0.71828	34.785568	31.877563	2.008055
0.005767	0.486347	46.221014	
0.85914	34.785568	31.877563	2.008055
0.005767	0.1405500	64.526666	
1.00000	34.785568	31.877563	2.008055
0.005767	1.031417	87.549587	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-40.009724	-143.856714	-1.705690
-0.005113	-1.842664	-185.269959	
0.57742	-40.009724	-143.856714	-1.705690
-0.005113	-1.127185	-125.841432	
0.71828	-40.009724	-143.856714	-1.705690
-0.005113	-0.413662	-83.880719	
0.85914	-40.009724	-143.856714	-1.705690
-0.005113	-0.370343	-51.792586	
1.00000	-40.009724	-143.856714	-1.705690
-0.005113	-1.201174	-23.761712	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	32.958271	60.716786	2.258492
0.004707	2.445660	111.010976	
0.57742	32.958271	60.716786	2.258492
0.004707	1.497986	86.286858	
0.71828	32.958271	60.716786	2.258492
0.004707	0.551245	68.468945	
0.85914	32.958271	60.716786	2.258492
0.004707	0.346789	67.103210	
1.00000	32.958271	60.716786	2.258492
0.004707	1.136559	71.404572	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-35.583781	-122.437385	-1.890197
-0.003921	-2.043582	-168.427506	
0.57742	-35.583781	-122.437385	-1.890197
-0.003921	-1.250513	-117.742811	
0.71828	-35.583781	-122.437385	-1.890197
-0.003921	-0.459095	-79.597823	
0.85914	-35.583781	-122.437385	-1.890197
-0.003921	-0.403557	-48.211240	
1.00000	-35.583781	-122.437385	-1.890197
-0.003921	-1.343727	-22.551684	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	42.600260	81.458235	2.226480
0.004338	2.409747	139.994984	
0.57742	42.600260	81.458235	2.226480
0.004338	1.475406	106.903974	
0.71828	42.600260	81.458235	2.226480
0.004338	0.542148	80.152679	
0.85914	42.600260	81.458235	2.226480
0.004338	0.337979	68.134415	
1.00000	42.600260	81.458235	2.226480
0.004338	1.114216	62.560201	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-34.516731	-104.444089	-1.856958
-0.003403	-2.008706	-145.290380	
0.57742	-34.516731	-104.444089	-1.856958
-0.003403	-1.229561	-102.558016	
0.71828	-34.516731	-104.444089	-1.856958
-0.003403	-0.451861	-71.718240	
0.85914	-34.516731	-104.444089	-1.856958
-0.003403	-0.397947	-47.756792	
1.00000	-34.516731	-104.444089	-1.856958
-0.003403	-1.325764	-30.670034	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	0.134299	23.776517	0.702245
0.003946	0.764419	52.954408	
0.57742	0.134299	23.776517	0.702245
0.003946	0.469792	44.224156	
0.71828	0.134299	23.776517	0.702245
0.003946	0.176326	43.027063	
0.85914	0.134299	23.776517	0.702245
0.003946	0.122765	56.892526	
1.00000	0.134299	23.776517	0.702245
0.003946	0.360390	74.105751	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-40.994117	-63.596034	-0.573883
-0.002456	-0.611122	-45.301858	
0.57742	-40.994117	-63.596034	-0.573883
-0.002456	-0.370494	-19.434563	
0.71828	-40.994117	-63.596034	-0.573883
-0.002456	-0.131276	-5.921831	
0.85914	-40.994117	-63.596034	-0.573883
-0.002456	-0.128705	-6.110349	
1.00000	-40.994117	-63.596034	-0.573883
-0.002456	-0.414939	-1.479366	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	12.354288	67.560492	1.163643
0.004296	1.264540	121.214368	
0.57742	12.354288	67.560492	1.163643
0.004296	0.776133	93.920816	
0.71828	12.354288	67.560492	1.163643
0.004296	0.288988	73.625336	
0.85914	12.354288	67.560492	1.163643
0.004296	0.183508	69.975621	
1.00000	12.354288	67.560492	1.163643
0.004296	0.573511	70.643142	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-35.356697	-58.274761	-0.936283
-0.002392	-1.005701	-44.614044	
0.57742	-35.356697	-58.274761	-0.936283
-0.002392	-0.561278	-21.262056	
0.71828	-35.356697	-58.274761	-0.936283
-0.002392	-0.221538	-10.359879	
0.85914	-35.356697	-58.274761	-0.936283
-0.002392	-0.207195	-6.892984	
1.00000	-35.356697	-58.274761	-0.936283
-0.002392	-0.688350	-10.982199	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	22.355268	86.822320	1.986776
0.003314	2.156167	162.416606	
0.57742	22.355268	86.822320	1.986776
0.003314	1.322487	126.832861	
0.71828	22.355268	86.822320	1.986776
0.003314	0.489467	96.045034	
0.85914	22.355268	86.822320	1.986776
0.003314	0.302291	77.049995	
1.00000	22.355268	86.822320	1.986776
0.003314	0.991588	62.483430	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-43.717473	-79.680717	-1.647342
-0.002399	-1.177857	-102.807221	
0.57742	-43.717473	-79.680717	-1.647342
-0.002399	-1.086945	-70.315067	
0.71828	-43.717473	-79.680717	-1.647342
-0.002399	-0.396688	-46.205889	
0.85914	-43.717473	-79.680717	-1.647342
-0.002399	-0.334715	-27.313312	
1.00000	-43.717473	-79.680717	-1.647342
-0.002399	-1.177112	-16.338040	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	23.938184	95.325001	2.006961
0.003197	2.177602	176.248708	
0.57742	23.938184	95.325001	2.006961
0.003197	1.335411	137.400493	
0.71828	23.938184	95.325001	2.006961
0.003197	0.493778	102.758597	
0.85914	23.938184	95.325001	2.006961
0.003197	0.303023	78.160083	
1.00000	23.938184	95.325001	2.006961
0.003197	0.998461	57.518423	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-43.669387	-69.375088	-1.661316
-0.002197	-1.793484	-92.006849	
0.57742	-43.669387	-69.375088	-1.661316
-0.002197	-1.096681	-64.371257	
0.71828	-43.669387	-69.375088	-1.661316
-0.002197	-0.400317	-44.495752	
0.85914	-43.669387	-69.375088	-1.661316
-0.002197	-0.350562	-29.223782	
1.00000	-43.669387	-69.375088	-1.661316
-0.002197	-1.189435	-20.315732	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	4.316088	27.813719	0.554926
0.000664	0.602766	56.821164	
0.57742	4.316088	27.813719	0.554926
0.000664	0.369897	45.336961	
0.71828	4.316088	27.813719	0.554926
0.000664	0.136935	33.947247	
0.85914	4.316088	27.813719	0.554926
0.000664	0.082094	22.776475	
1.00000	4.316088	27.813719	0.554926
0.000664	0.273547	12.094017	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-17.266682	-5.710831	-0.455137
-0.000317	-0.490106	-13.954192	
0.57742	-17.266682	-5.710831	-0.455137
-0.000317	-0.299406	-12.049090	
0.71828	-17.266682	-5.710831	-0.455137
-0.000317	-0.107957	-10.259979	
0.85914	-17.266682	-5.710831	-0.455137
-0.000317	-0.095332	-8.754673	
1.00000	-17.266682	-5.710831	-0.455137
-0.000317	-0.328276	-7.772639	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	27.024469	70.271913	0.985375
0.001279	1.066847	119.732275	
0.57742	27.024469	70.271913	0.985375
0.001279	0.653389	91.072272	
0.71828	27.024469	70.271913	0.985375
0.001279	0.239661	63.250871	
0.85914	27.024469	70.271913	0.985375
0.001279	0.142453	37.750801	
1.00000	27.024469	70.271913	0.985375
0.001279	0.479180	15.973292	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-20.451762	-8.539911	-0.802083
-0.000494	-0.866992	-18.688244	
0.57742	-20.451762	-8.539911	-0.802083
-0.000494	-0.530468	-16.731307	
0.71828	-20.451762	-8.539911	-0.802083
-0.000494	-0.193724	-16.086006	
0.85914	-20.451762	-8.539911	-0.802083
-0.000494	-0.173145	-18.388403	
1.00000	-20.451762	-8.539911	-0.802083
-0.000494	-0.586355	-25.099001	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	15.976361	83.317348	1.378222
0.001461	1.499085	151.844677	
0.57742	15.976361	83.317348	1.378222
0.001461	0.920783	117.658594	
0.71828	15.976361	83.317348	1.378222
0.001461	0.341808	84.413565	
0.85914	15.976361	83.317348	1.378222
0.001461	0.200219	54.533213	
1.00000	15.976361	83.317348	1.378222
0.001461	0.668595	29.049797	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-32.486202	-20.709144	-1.114957
-0.000374	-1.202448	-32.195696	
0.57742	-32.486202	-20.709144	-1.114957
-0.000374	-0.734785	-25.109152	
0.71828	-32.486202	-20.709144	-1.114957
-0.000374	-0.266553	-18.783462	
0.85914	-32.486202	-20.709144	-1.114957
-0.000374	-0.233094	-14.424732	
1.00000	-32.486202	-20.709144	-1.114957
-0.000374	-0.812444	-17.522737	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	17.082758	96.903677	1.861976
0.003396	2.022532	186.653535	
0.57742	17.082758	96.903677	1.861976
0.003396	1.241362	147.027194	
0.71828	17.082758	96.903677	1.861976
0.003396	0.460371	111.951312	
0.85914	17.082758	96.903677	1.861976
0.003396	0.283903	87.539067	
1.00000	17.082758	96.903677	1.861976
0.003396	0.925163	67.546927	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-53.750168	-59.051550	-1.531614
-0.002057	-1.777857	-102.807221	
0.57742	-53.750168	-59.051550	-1.531614
-0.002057	-1.007293	-47.082819	
0.71828	-53.750168	-59.051550	-1.531614
-0.002057	-0.365323	-31.565371	
0.85914	-53.750168	-59.051550	-1.531614
-0.002057	-0.324053	-21.176744	
1.00000	-53.750168	-59.051550	-1.531614
-0.002057	-1.101591	-18.057849	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	27.348401	74.329135	1.394299
0.005682	1.512113	143.640820	
0.57742	27.348401	74.329135	1.394299
0.005682	0.927291	112.988616	
0.71828	27.348401	74.329135	1.394299
0.005682	0.342490	87.642592	
0.85914	27.348401	74.329135	1.394299
0.005682	0.210061	77.688392	
1.00000	27.348401	74.329135	1.394299
0.005682	0.667304	81.629100	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-40.234099	-116.732511	-1.102602
-0.005406	-1.189612	-124.978916	
0.57742	-40.234099	-116.732511	-1.102602
-0.005406	-0.727357	-80.967624	
0.71828	-40.234099	-116.732511	-1.102602
-0.005406	-0.265165	-51.844933	
0.85914	-40.234099	-116.732511	-1.102602
-0.005406	-0.250091	-31.485730	
1.00000	-40.234099	-116.732511	-1.102602
-0.005406	-0.827415	-24.472901	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	42.600260	96.903677	2.258492
0.005767	2.445660	186.653535	
0.57742	42.600260	96.903677	2.258492
0.005767	1.497986	147.027194	
0.71828	42.600260	96.903677	2.258492
0.005767	0.551245	111.951312	
0.85914	42.600260	96.903677	2.258492
0.005767	0.346789	87.539067	
1.00000	42.600260	96.903677	2.258492
0.005767	1.136559	87.549587	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-53.750168	-143.856714	-1.890197
-0.005113	-2.043582	-185.269959	
0.57742	-53.750168	-143.856714	-1.890197
-0.005113	-1.250513	-125.841432	
0.71828	-53.750168	-143.856714	-1.890197
-0.005113	-0.459095	-83.880719	
0.85914	-53.750168	-143.856714	-1.890197
-0.005113	-0.403557	-52.236424	
1.00000	-53.750168	-143.856714	-1.890197
-0.005113	-1.343727	-30.670034	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	42.600260	96.903677	2.258492
0.005767	2.445660	186.653535	
0.57742	42.600260	96.903677	2.258492
0.005767	1.497986	147.027194	
0.71828	42.600260	96.903677	2.258492
0.005767	0.551245	111.951312	
0.85914	42.600260	96.903677	2.258492
0.005767	0.346789	87.539067	
1.00000	42.600260	96.903677	2.258492
0.005767	1.136559	87.549587	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-53.750168	-143.856714	-1.890197
-0.005406	-2.043582	-185.269959	
0.57742	-53.750168	-143.856714	-1.890197
-0.005406	-1.250513	-125.841432	
0.71828	-53.750168	-143.856714	-1.890197
-0.005406	-0.459095	-83.880719	
0.85914	-53.750168	-143.856714	-1.890197
-0.005406	-0.403557	-52.236424	
1.00000	-53.750168	-143.856714	-1.890197
-0.005406	-1.343727	-30.670034	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	42.600260	96.903677	2.258492
0.005767	2.445660	186.653535	
0.57742	42.600260	96.903677	2.258492
0.005767	1.497986	147.027194	
0.71828	42.600260	96.903677	2.258492
0.005767	0.551245	111.951312	
0.85914	42.600260	96.903677	2.258492
0.005767	0.346789	87.539067	
1.00000	42.600260	96.903677	2.258492
0.005767	1.136559	87.549587	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-53.750168	-143.856714	-1.890197
-0.005406	-2.043582	-185.269959	
0.57742	-53.750168	-143.856714	-1.890197
-0.005406	-1.250513	-125.841432	
0.71828	-53.750168	-143.856714	-1.890197
-0.005406	-0.459095	-83.880719	
0.85914	-53.750168	-143.856714	-1.890197
-0.005406	-0.403557	-52.236424	
1.00000	-53.750168	-143.856714	-1.890197
-0.005406	-1.343727	-30.670034	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 221 ========== LENGTH = 2.976914

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.385597	3.588167	0.754447
0.000556	0.446430	1.798911	
0.14083	16.385597	3.588167	0.754447
0.000556	0.130085	10.323163	
0.28165	16.385597	3.588167	0.754447
0.000556	0.155836	26.320443	
0.42248	16.385597	3.588167	0.754447
0.000556	0.425207	46.469820	
0.56331	16.385597	3.588167	0.754447
0.000556	0.694569	64.661655	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.748146	-43.443349	-0.642520
-0.001285	-0.382684	-12.727183	
0.14083	-2.748146	-43.443349	-0.642520
-0.001285	-0.113513	-13.544982	
0.28165	-2.748146	-43.443349	-0.642520
-0.001285	-0.186218	-14.571784	
0.42248	-2.748146	-43.443349	-0.642520
-0.001285	-0.502466	-15.623370	
0.56331	-2.748146	-43.443349	-0.642520
-0.001285	-0.818745	-17.074357	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.787528	86.875653	1.215787
0.004497	0.749843	81.836559	
0.14083	16.787528	86.875653	1.215787
0.004497	0.241268	67.030562	
0.28165	16.787528	86.875653	1.215787
0.004497	0.221230	61.303231	
0.42248	16.787528	86.875653	1.215787
0.004497	0.602517	80.021501	
0.56331	16.787528	86.875653	1.215787
0.004497	0.983796	104.806511	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-33.979786	-63.040441	-0.909481
-0.006591	-0.541341	-12.345864	
0.14083	-33.979786	-63.040441	-0.909481
-0.006591	-0.160072	-12.631401	
0.28165	-33.979786	-63.040441	-0.909481
-0.006591	-0.296071	-19.784721	
0.42248	-33.979786	-63.040441	-0.909481
-0.006591	-0.805446	-40.902330	
0.56331	-33.979786	-63.040441	-0.909481
-0.006591	-1.314784	-77.015784	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.273277	87.283611	1.412776

0.003434 0.860154 64.124380
0.14083 15.273277 87.283611 1.412776
0.003434 0.268492 56.767953
0.28165 15.273277 87.283611 1.412776
0.003434 0.256352 60.212691
0.42248 15.273277 87.283611 1.412776
0.003434 0.695090 80.934133
0.56331 15.273277 87.283611 1.412776
0.003434 1.133760 105.891573

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-26.225759	-62.288685	-1.046375
-0.004786	-0.620920	-12.280021	
0.14083	-26.225759	-62.288685	-1.046375
-0.004786	-0.182160	-22.524841	
0.28165	-26.225759	-62.288685	-1.046375
-0.004786	-0.342470	-39.120800	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2446

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42248	-26.225759	-62.288685	-1.046375
-0.004786	-0.934538	-65.239453	
0.56331	-26.225759	-62.288685	-1.046375
-0.004786	-1.526561	-101.604489	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.447559	90.462879	1.346715
0.003449	0.817192	56.013957	
0.14083	27.447559	90.462879	1.346715
0.003449	0.253112	47.676282	
0.28165	27.447559	90.462879	1.346715
0.003449	0.257828	51.142116	
0.42248	27.447559	90.462879	1.346715
0.003449	0.699919	69.183173	
0.56331	27.447559	90.462879	1.346715
0.003449	1.141961	90.648253	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.280206	-53.477140	-1.054519
-0.004188	-0.626439	-22.417102	
0.14083	-25.280206	-53.477140	-1.054519
-0.004188	-0.184557	-35.746446	
0.28165	-25.280206	-53.477140	-1.054519
-0.004188	-0.326974	-54.382855	
0.42248	-25.280206	-53.477140	-1.054519
-0.004188	-0.891379	-81.124265	
0.56331	-25.280206	-53.477140	-1.054519
-0.004188	-1.455748	-117.606050	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.179414	69.289820	0.481945
0.003218	0.777156	77.158344	
0.14083	0.179414	69.289820	0.481945
0.003218	0.111726	61.861843	
0.28165	0.179414	69.289820	0.481945
0.003218	0.065357	46.776746	
0.42248	0.179414	69.289820	0.481945
0.003218	0.174716	51.806836	
0.56331	0.179414	69.289820	0.481945
0.003218	0.284075	61.859764	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-34.211859	-27.293573	-0.260911
-0.004209	-0.153451	-1.551300	
0.14083	-34.211859	-27.293573	-0.260911
-0.004209	-0.044061	-3.216088	
0.28165	-34.211859	-27.293573	-0.260911
-0.004209	-0.113663	-7.934714	
0.42248	-34.211859	-27.293573	-0.260911
-0.004209	-0.173385	-14.215408	
0.56331	-34.211859	-27.293573	-0.260911
-0.004209	-0.517155	-53.140347	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.967291	93.679242	0.768938
0.003511	0.482116	72.618862	
0.14083	11.967291	93.679242	0.768938
0.003511	0.160646	53.370834	
0.28165	11.967291	93.679242	0.768938
0.003511	0.126547	37.994920	
0.42248	11.967291	93.679242	0.768938
0.003511	0.340751	41.986600	
0.56331	11.967291	93.679242	0.768938
0.003511	0.554915	50.706979	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-28.708534	-23.745898	-0.510900
-0.003979	-0.301871	-11.409055	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2447

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14083	-28.708534	-23.745898	-0.510900
-0.003979	-0.087845	-25.261144	
0.28165	-28.708534	-23.745898	-0.510900
-0.003979	-0.183318	-41.149643	
0.42248	-28.708534	-23.745898	-0.510900
-0.003979	-0.505355	-68.114155	
0.56331	-28.708534	-23.745898	-0.510900
-0.003979	-0.827445	-107.059894	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.714484	102.930682	1.248636
0.003008	0.760058	65.842543	
0.14083	17.714484	102.930682	1.248636
0.003008	0.237143	50.387959	
0.28165	17.714484	102.930682	1.248636
0.003008	0.222097	50.377113	
0.42248	17.714484	102.930682	1.248636
0.003008	0.601850	65.028985	
0.56331	17.714484	102.930682	1.248636
0.003008	0.981556	83.126978	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-37.725247	-45.609653	-0.905770
-0.003846	-0.537388	-15.232564	
0.14083	-37.725247	-45.609653	-0.905770
-0.003846	-0.157799	-24.256483	
0.28165	-37.725247	-45.609653	-0.905770
-0.003846	-0.301497	-50.337238	
0.42248	-37.725247	-45.609653	-0.905770
-0.003846	-0.824781	-84.596720	
0.56331	-37.725247	-45.609653	-0.905770
-0.003846	-1.348047	-127.415073	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.899258	99.348400	1.209789
0.003129	0.734197	59.233968	
0.14083	18.899258	99.348400	1.209789
0.003129	0.227422	42.024696	
0.28165	18.899258	99.348400	1.209789
0.003129	0.227245	42.272321	
0.42248	18.899258	99.348400	1.209789
0.003129	0.615165	55.031944	
0.56331	18.899258	99.348400	1.209789
0.003129	1.003041	70.677649	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-36.053995	-39.369217	-0.925241
-0.003498	-0.548597	-19.324284	
0.14083	-36.053995	-39.369217	-0.925241
-0.003498	-0.160830	-28.161980	
0.28165	-36.053995	-39.369217	-0.925241
-0.003498	-0.292397	-51.335404	
0.42248	-36.053995	-39.369217	-0.925241
-0.003498	-0.799437	-82.330313	
0.56331	-36.053995	-39.369217	-0.925241
-0.003498	-1.306452	-123.702405	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.675025	18.466267	0.274275
0.000962	0.163324	8.800319	
0.14083	2.675025	18.466267	0.274275
0.000962	0.048283	4.440764	
0.28165	2.675025	18.466267	0.274275
0.000962	0.062306	3.674692	
0.42248	2.675025	18.466267	0.274275
0.000962	0.166082	3.752718	
0.56331	2.675025	18.466267	0.274275
0.000962	0.269780	4.151668	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2448

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.753340	-2.683385	-0.247357
-0.000475	-0.145023	-7.347773	
0.14083	-8.753340	-2.683385	-0.247357
-0.000475	-0.041346	-7.954760	
0.28165	-8.753340	-2.683385	-0.247357
-0.000475	-0.066661	-9.093890	
0.42248	-8.753340	-2.683385	-0.247357
-0.000475	-0.181656	-15.161585	
0.56331	-8.753340	-2.683385	-0.247357
-0.000475	-0.296640	-22.892056	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	24.098023	45.017270	0.499689
0.001777	0.297776	13.054075	
0.14083	24.098023	45.017270	0.499689
0.001777	0.088385	3.808386	
0.28165	24.098023	45.017270	0.499689
0.001777	0.116425	2.600058	
0.42248	24.098023	45.017270	0.499689
0.001777	0.314205	3.636743	
0.56331	24.098023	45.017270	0.499689
0.001777	0.511917	5.266857	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.330150	-4.004430	-0.471668
-0.000763	-0.279132	-24.472268	
0.14083	-12.330150	-4.004430	-0.471668
-0.000763	-0.081696	-32.922392	
0.28165	-12.330150	-4.004430	-0.471668
-0.000763	-0.122071	-41.883955	
0.42248	-12.330150	-4.004430	-0.471668
-0.000763	-0.331526	-57.511289	
0.56331	-12.330150	-4.004430	-0.471668
-0.000763	-0.540999	-76.197408	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.860484	58.295262	0.822512
0.001634	0.493460	26.586255	
0.14083	11.860484	58.295262	0.822512
0.001634	0.148698	22.010428	
0.28165	11.860484	58.295262	0.822512
0.001634	0.160237	26.656353	
0.42248	11.860484	58.295262	0.822512
0.001634	0.429368	34.799692	
0.56331	11.860484	58.295262	0.822512
0.001634	0.698355	43.251070	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.770977	-20.457725	-0.641665
-0.000788	-0.137741	-16.86672	
0.14083	-18.770977	-20.457725	-0.641665
-0.000788	-0.108845	-31.150784	
0.28165	-18.770977	-20.457725	-0.641665
-0.000788	-0.197601	-46.190069	
0.42248	-18.770977	-20.457725	-0.641665
-0.000788	-0.542359	-67.386934	
0.56331	-18.770977	-20.457725	-0.641665
-0.000788	-0.887145	-91.669778	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.471383	106.231412	1.115462
0.003519	0.681115	69.957219	
0.14083	12.471383	106.231412	1.115462
0.003519	0.214082	44.970082	
0.28165	12.471383	106.231412	1.115462
0.003519	0.205102	37.785797	
0.42248	12.471383	106.231412	1.115462
0.003519	0.553220	46.400330	
0.56331	12.471383	106.231412	1.115462
0.003519	0.901234	58.451398	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2449

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-42.394856	-31.069908	-0.830163
-0.003748	-0.490943	-17.346297	
0.14083	-42.394856	-31.069908	-0.830163
-0.003748	-0.142995	-26.080350	
0.28165	-42.394856	-31.069908	-0.830163
-0.003748	-0.268645	-46.372936	
0.42248	-42.394856	-31.069908	-0.830163
-0.003748	-0.736057	-80.538363	
0.56331	-42.394856	-31.069908	-0.830163
-0.003748	-1.203499	-124.845185	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	37.778757	7.413865	1.164271
0.000549	0.685403	2.346959	
0.14083	37.778757	7.413865	1.164271
0.000549	0.197095	11.006544	
0.28165	37.778757	7.413865	1.164271
0.000549	0.286844	38.542783	
0.42248	37.778757	7.413865	1.164271
0.000549	0.794538	66.940506	
0.56331	37.778757	7.413865	1.164271
0.000549	1.302256	95.534212	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.652830	-68.733851	-1.211029
-0.001417	-0.728569	-25.167502	
0.14083	-4.652830	-68.733851	-1.211029
-0.001417	-0.220777	-11.426694	
0.28165	-4.652830	-68.733851	-1.211029
-0.001417	-0.289930	-13.354128	
0.42248	-4.652830	-68.733851	-1.211029
-0.001417	-0.778236	-16.063815	
0.56331	-4.652830	-68.733851	-1.211029
-0.001417	-1.266434	-18.950358	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	34.911962	91.505079	2.002899
0.004161	1.219862	87.588448	
0.14083	34.911962	91.505079	2.002899
0.004161	0.382036	70.137044	
0.28165	34.911962	91.505079	2.002899
0.004161	0.410884	73.221963	
0.42248	34.911962	91.505079	2.002899
0.004161	1.125174	100.837324	
0.56331	34.911962	91.505079	2.002899
0.004161	1.839610	136.207684	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-42.838766	-87.431807	-1.704324
-0.007042	-1.018620	-23.753635	
0.14083	-42.838766	-87.431807	-1.704324
-0.007042	-0.305248	-10.898964	
0.28165	-42.838766	-87.431807	-1.704324
-0.007042	-0.481401	-17.982815	
0.42248	-42.838766	-87.431807	-1.704324
-0.007042	-1.318951	-42.849164	
0.56331	-42.838766	-87.431807	-1.704324
-0.007042	-2.156438	-80.163281	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	33.116428	103.030728	2.287851
0.003295	1.381508	71.446644	
0.14083	33.116428	103.030728	2.287851
0.003295	0.422625	58.784306	
0.28165	33.116428	103.030728	2.287851
0.003295	0.454998	67.345607	
0.42248	33.116428	103.030728	2.287851
0.003295	1.242923	95.162784	
0.56331	33.116428	103.030728	2.287851
0.003295	2.030885	128.686613	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2450

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-37.677364	-82.458638	-1.879433
-0.005332	-1.120892	-22.541763	
0.14083	-37.677364	-82.458638	-1.879433
-0.005332	-0.333523	-24.125525	
0.28165	-37.677364	-82.458638	-1.879433
-0.005332	-0.550794	-41.283199	
0.42248	-37.677364	-82.458638	-1.879433
-0.005332	-1.508902	-74.714867	
0.56331	-37.677364	-82.458638	-1.879433
-0.005332	-2.466678	-117.144400	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	42.746143	116.889342	2.230821
0.003345	1.342906	62.602324	
0.14083	42.746143	116.889342	2.230821
0.003345	0.407949	49.295563	
0.28165	42.746143	116.889342	2.230821
0.003345	0.450327	57.500002	
0.42248	42.746143	116.889342	2.230821
0.003345	1.232261	81.747429	
0.56331	42.746143	116.889342	2.230821
0.003345	2.014266	110.737111	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-36.306996	-71.266758	-1.865236
-0.004615	-1.113777	-30.661963	
0.14083	-36.306996	-71.266758	-1.865236
-0.004615	-0.332135	-39.859979	
0.28165	-36.306996	-71.266758	-1.865236
-0.004615	-0.538995	-68.154888	
0.42248	-36.306996	-71.266758	-1.865236
-0.004615	-0.745719	-108.377330	
0.56331	-36.306996	-71.266758	-1.865236
-0.004615	-2.407503	-156.071344	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.151642	65.689672	0.841166
0.002475	0.528814	74.139371	
0.14083	0.151642	65.689672	0.841166
0.002475	0.177405	58.548030	
0.28165	0.151642	65.689672	0.841166
0.002475	0.116556	44.767329	
0.42248	0.151642	65.689672	0.841166
0.002475	0.308374	48.048370	
0.56331	0.151642	65.689672	0.841166
0.002475	0.500312	57.448116	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-42.870714	-24.915349	-0.457970
-0.003770	-0.267917	-1.492081	
0.14083	-42.870714	-24.915349	-0.457970
-0.003770	-0.076665	-3.064795	
0.28165	-42.870714	-24.915349	-0.457970
-0.003770	-0.191964	-7.885705	
0.42248	-42.870714	-24.915349	-0.457970
-0.003770	-0.543214	-25.111669	
0.56331	-42.870714	-24.915349	-0.457970
-0.003770	-0.894235	-51.757393	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.421578	108.021146	1.289865
0.002851	0.792549	70.697885	
0.14083	12.421578	108.021146	1.289865
0.002851	0.252326	49.744806	
0.28165	12.421578	108.021146	1.289865
0.002851	0.210479	34.062302	
0.42248	12.421578	108.021146	1.289865
0.002851	0.567643	36.479600	
0.56331	12.421578	108.021146	1.289865
0.002851	0.924682	44.503276	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2451

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-37.239954	-21.199765	-0.851821
-0.003647	-0.504095	-10.997849	
0.14083	-37.239954	-21.199765	-0.851821
-0.003647	-0.147513	-28.997374	
0.28165	-37.239954	-21.199765	-0.851821
-0.003647	-0.302674	-51.440650	
0.42248	-37.239954	-21.199765	-0.851821
-0.003647	-0.842242	-87.493748	
0.56331	-37.239954	-21.199765	-0.851821
-0.003647	-1.381703	-132.052183	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.476402	112.437841	2.079403
0.002398	1.254149	62.518251	
0.14083	22.476402	112.437841	2.079403
0.002398	0.382226	49.262802	
0.28165	22.476402	112.437841	2.079403
0.002398	0.387156	54.907596	
0.42248	22.476402	112.437841	2.079403
0.002398	1.052474	73.627788	
0.56331	22.476402	112.437841	2.079403
0.002398	1.717598	96.216278	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-45.004602	-55.582972	-1.586818
-0.003482	-0.943598	-16.328487	
0.14083	-45.004602	-55.582972	-1.586818
-0.003482	-0.278901	-27.863530	
0.28165	-45.004602	-55.582972	-1.586818
-0.003482	-0.497386	-58.780998	
0.42248	-45.004602	-55.582972	-1.586818
-0.003482	-1.368572	-99.667039	
0.56331	-45.004602	-55.582972	-1.586818
-0.003482	-2.239683	-146.213449	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	24.088926	116.870400	2.084676
0.002659	1.254324	57.555155	
0.14083	24.088926	116.870440	2.084676
0.002659	0.380158	41.162637	
0.28165	24.088926	116.870440	2.084676
0.002659	0.390323	46.902260	
0.42248	24.088926	116.870440	2.084676
0.002659	1.060251	63.598055	
0.56331	24.088926	116.870440	2.084676
0.002659	1.729824	83.600687	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-44.803514	-49.128500	-1.597493
-0.003176	-0.949301	-20.311262	
0.14083	-44.803514	-49.128500	-1.597493
-0.003176	-0.279370	-33.219984	
0.28165	-44.803514	-49.128500	-1.597493
-0.003176	-0.500030	-67.013603	
0.42248	-44.803514	-49.128500	-1.597493
-0.003176	-1.373542	-109.415430	
0.56331	-44.803514	-49.128500	-1.597493
-0.003176	-2.247017	-157.918326	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.412167	27.829706	0.578441
0.001007	0.345561	12.103548	
0.14083	4.412167	27.829706	0.578441
0.001007	0.102427	4.667169	
0.28165	4.412167	27.829706	0.578441
0.001007	0.100467	4.817746	
0.42248	4.412167	27.829706	0.578441
0.001007	0.268644	6.723674	
0.56331	4.412167	27.829706	0.578441
0.001007	0.436445	8.787294	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2452

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.340458	-5.677379	-0.400183
-0.000447	-0.234690	-7.776956	
0.14083	-17.340458	-5.677379	-0.400183
-0.000447	-0.066556	-8.817983	
0.28165	-17.340458	-5.677379	-0.400183
-0.000447	-0.139044	-16.227857	
0.42248	-17.340458	-5.677379	-0.400183
-0.000447	-0.381725	-27.056776	
0.56331	-17.340458	-5.677379	-0.400183
-0.000447	-0.624328	-38.543119	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.137617	72.028448	0.979509
0.001751	0.583092	15.993105	
0.14083	27.137617	72.028448	0.979509
0.001751	0.172033	4.000205	
0.28165	27.137617	72.028448	0.979509
0.001751	0.190750	4.324293	
0.42248	27.137617	72.028448	0.979509
0.001751	0.519833	6.961121	
0.56331	27.137617	72.028448	0.979509
0.001751	0.848861	9.983377	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.628156	-7.376896	-0.784319
-0.000662	-0.466567	-25.100975	
0.14083	-20.628156	-7.376896	-0.784319
-0.000662	-0.137179	-40.519416	
0.28165	-20.628156	-7.376896	-0.784319
-0.000662	-0.237868	-65.925763	
0.42248	-20.628156	-7.376896	-0.784319
-0.000662	-0.649045	-94.977933	
0.56331	-20.628156	-7.376896	-0.784319
-0.000662	-1.059621	-125.063483	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.113056	83.619916	1.467473
0.001472	0.877105	29.080602	
0.14083	16.113056	83.619916	1.467473
0.001472	0.260557	20.515178	

```
 0.28165    16.113056    83.619916     1.467473
 0.001472    0.255161    24.873733
 0.42248    16.113056    83.619916     1.467473
 0.001472    0.687805    33.098082
 0.56331    16.113056    83.619916     1.467473
 0.001472    1.119844    41.688020

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.00000   -32.632843   -21.146976   -1.030612
-0.000494   -0.608607   -17.527177
 0.14083   -32.632843   -21.146976   -1.030612
-0.000494   -0.175729   -36.494857
 0.28165   -32.632843   -21.146976   -1.030612
-0.000494   -0.351275   -65.443120
 0.42248   -32.632843   -21.146976   -1.030612
-0.000494   -0.967349   -99.188396
 0.56331   -32.632843   -21.146976   -1.030612
-0.000494   -1.582729  -133.957514

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.00000    17.246597   120.269461    1.985328
 0.002849    1.199481    67.589300
 0.14083    17.246597   120.269461    1.985328
 0.002849    0.366601    44.574879
 0.28165    17.246597   120.269461    1.985328
 0.002849    0.340079    42.058003
 0.42248    17.246597   120.269461    1.985328
 0.002849    0.942509    53.437170
 0.56331    17.246597   120.269461    1.985328
 0.002849    1.535654    68.297931
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      2453

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.00000   -54.957844   -37.218643   -1.414927
-0.003146   -0.837374   -18.062111
 0.14083   -54.957844   -37.218643   -1.414927
-0.003146   -0.244054   -30.644556
 0.28165   -54.957844   -37.218643   -1.414927
-0.003146   -0.472518   -62.540899
 0.42248   -54.957844   -37.218643   -1.414927
-0.003146   -1.304602  -106.527787
 0.56331   -54.957844   -37.218643   -1.414927
-0.003146   -2.136104  -156.339293

COMB      DB ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.00000    27.447559   106.231412    1.412776
 0.004497    0.860154    81.836559
 0.14083    27.447559   106.231412    1.412776
 0.004497    0.268492    67.005062
 0.28165    27.447559   106.231412    1.412776
 0.004497    0.257828    61.303231
 0.42248    27.447559   106.231412    1.412776
 0.004497    0.698919    68.934133
 0.56331    27.447559   106.231412    1.412776
 0.004497    1.141961   105.891573

COMB      DB ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.00000   -42.394856   -63.040441   -1.054519
-0.006591   -0.626439   -24.472268
 0.14083   -42.394856   -63.040441   -1.054519
-0.006591   -0.184557   -35.746446
 0.28165   -42.394856   -63.040441   -1.054519
-0.006591   -0.342470   -54.382855
 0.42248   -42.394856   -63.040441   -1.054519
-0.006591   -0.934538   -84.596720
 0.56331   -42.394856   -63.040441   -1.054519
-0.006591   -1.526561  -127.415073

COMB      DL ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.00000    42.746143   120.269461    2.287851
 0.004161    1.381508    87.588448
 0.14083    42.746143   120.269461    2.287851
 0.004161    0.422625    70.137044
 0.28165    42.746143   120.269461    2.287851
 0.004161    0.454998    73.221963
 0.42248    42.746143   120.269461    2.287851
 0.004161    1.242923   100.837324
 0.56331    42.746143   120.269461    2.287851
 0.004161    2.030885   136.207684

COMB      DL ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.00000   -54.957844   -87.431807   -1.879433
-0.007042   -1.120892   -30.661963
 0.14083   -54.957844   -87.431807   -1.879433
-0.007042   -0.333523   -40.519416
 0.28165   -54.957844   -87.431807   -1.879433
-0.007042   -0.550794   -68.154888
 0.42248   -54.957844   -87.431807   -1.879433
-0.007042   -1.508902  -109.415430
 0.56331   -54.957844   -87.431807   -1.879433
-0.007042   -2.466678  -157.918326

COMB      CAR ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.00000    42.746143   120.269461    2.287851
 0.004497    1.381508    87.588448
 0.14083    42.746143   120.269461    2.287851
 0.004497    0.422625    70.137044
 0.28165    42.746143   120.269461    2.287851
 0.004497    0.454998    73.221963
 0.42248    42.746143   120.269461    2.287851
 0.004497    1.242923   100.837324
 0.56331    42.746143   120.269461    2.287851
 0.004497    2.030885   136.207684
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      2454

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.00000   -54.957844   -87.431807   -1.879433
-0.007042   -1.120892   -30.661963
 0.14083   -54.957844   -87.431807   -1.879433
-0.007042   -0.333523   -40.519416
 0.28165   -54.957844   -87.431807   -1.879433
-0.007042   -0.550794   -68.154888
 0.42248   -54.957844   -87.431807   -1.879433
-0.007042   -1.508902  -109.415430
 0.56331   -54.957844   -87.431807   -1.879433
-0.007042   -2.466678  -157.918326

COMB   DESIGN ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.00000    42.746143   120.269461    2.287851
 0.004497    1.381508    87.588448
 0.14083    42.746143   120.269461    2.287851
 0.004497    0.422625    70.137044
 0.28165    42.746143   120.269461    2.287851
 0.004497    0.454998    73.221963
 0.42248    42.746143   120.269461    2.287851
 0.004497    1.242923   100.837324
 0.56331    42.746143   120.269461    2.287851
 0.004497    2.030885   136.207684

COMB   DESIGN ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.00000   -54.957844   -87.431807   -1.879433
-0.007042   -1.120892   -30.661963
 0.14083   -54.957844   -87.431807   -1.879433
-0.007042   -0.333523   -40.519416
 0.28165   -54.957844   -87.431807   -1.879433
-0.007042   -0.550794   -68.154888
 0.42248   -54.957844   -87.431807   -1.879433
-0.007042   -1.508902  -109.415430
 0.56331   -54.957844   -87.431807   -1.879433
-0.007042   -2.466678  -157.918326

ELEM      222 ================== LENGTH
=    2.977081

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    20.637661    2.679549     0.759699
 0.000954    0.798491    5.350700
 0.57750    20.637661    2.679549     0.759699
 0.000954    0.479981    4.231534
 0.71833    20.637661    2.679549     0.759699
 0.000954    0.161464    3.121122
 0.85917    20.637661    2.679549     0.759699
 0.000954    0.136246    2.045810
 1.00000    20.637661    2.679549     0.759699
 0.000954    0.411791    1.162057

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -3.312873   -37.660748   -0.657156
-0.000950   -0.690321   -71.612458
 0.57750   -3.312873   -37.660748   -0.657156
-0.000950   -0.414795   -55.823898
 0.71833   -3.312873   -37.660748   -0.657156
-0.000950   -0.139253   -40.100861
 0.85917   -3.312873   -37.660748   -0.657156
-0.000950   -0.157008   -24.413861
 1.00000   -3.312873   -37.660748   -0.657156
-0.000950   -0.475592    -8.959688

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    20.482998   25.698740    1.179607
 0.004822    1.239920   41.640664
 0.57750    20.482998   25.698740    1.179607
 0.004822    0.745346   30.903834
 0.71833    20.482998   25.698740    1.179607
 0.004822    0.250677   23.346666
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      2455

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
          T          M2          M3
 0.85917    20.482998   25.698740    1.179607
 0.004822    0.208279   39.588037
 1.00000    20.482998   25.698740    1.179607
 0.004822    0.616653   59.040476

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -35.830369   -96.142454   -0.984351
-0.004817   -1.034181  -115.284859
 0.57750   -35.830369   -96.142454   -0.984351
-0.004817   -0.621472   -75.161073
 0.71833   -35.830369   -96.142454   -0.984351
-0.004817   -0.208740   -44.254958
 0.85917   -35.830369   -96.142454   -0.984351
-0.004817   -0.244966   -35.350976
 1.00000   -35.830369   -96.142454   -0.984351
-0.004817   -0.738390   -15.059035

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    18.372607   38.798913    1.337411
 0.003848    1.405648   67.505042
 0.57750    18.372607   38.798913    1.337411
 0.003848    0.844912   51.238376
 0.71833    18.372607   38.798913    1.337411
 0.003848    0.284073   37.209474
 0.85917    18.372607   38.798913    1.337411
 0.003848    0.250599   39.076603
 1.00000    18.372607   38.798913    1.337411
 0.003848    0.748873   42.109228

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -28.509131   -70.303716   -1.195375
-0.003844   -1.255865   -91.136040
 0.57750   -28.509131   -70.303716   -1.195375
-0.003844   -0.754680   -61.786115
 0.71833   -28.509131   -70.303716   -1.195375
-0.003844   -0.253424   -38.307578
 0.85917   -28.509131   -70.303716   -1.195375
-0.003844   -0.277340   -22.937519
 1.00000   -28.509131   -70.303716   -1.195375
-0.003844   -0.837304   -12.144240

COMB DB-G1-4 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    33.506417   50.574340    1.290700
 0.003520    1.356271   83.381123
 0.57750    33.506417   50.574340    1.290700
 0.003520    0.815119   62.390835
 0.71833    33.506417   50.574340    1.290700
 0.003520    0.273983   43.783283
 0.85917    33.506417   50.574340    1.290700
 0.003520    0.257068   39.403157
 1.00000    33.506417   50.574340    1.290700
 0.003520    0.770397   36.663366

COMB DB-G1-4 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -27.724876   -59.627854   -1.230046
-0.003522   -1.292488   -78.238943
 0.57750   -27.724876   -59.627854   -1.230046
-0.003522   -0.776767   -53.343367
 0.71833   -27.724876   -59.627854   -1.230046
-0.003522   -0.260946   -33.320486
 0.85917   -27.724876   -59.627854   -1.230046
-0.003522   -0.267812   -20.441460
 1.00000   -27.724876   -59.627854   -1.230046
-0.003522   -0.808338   -18.162214

COMB DB-G2-1 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    0.206563    26.091894    0.425035
 0.003323    0.446604    45.019112
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      2456

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
          T          M2          M3
 0.57750    0.206563    26.091894    0.425035
 0.003323    0.268400    34.120573
 0.71833    0.206563    26.091894    0.425035
 0.003323    0.090188    25.877525
 0.85917    0.206563    26.091894    0.425035
 0.003323    0.077942    37.563851
 1.00000    0.206563    26.091894    0.425035
 0.003323    0.224861    53.070291

COMB DB-G2-1 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -37.183184   -52.744655   -0.359086
-0.003324   -0.377353   -39.248528
 0.57750   -37.183184   -52.744655   -0.359086
-0.003324   -0.226799   -18.111773
 0.71833   -37.183184   -52.744655   -0.359086
-0.003324   -0.076222    -4.192831
 0.85917   -37.183184   -52.744655   -0.359086
-0.003324   -0.089022    -0.230655
 1.00000   -37.183184   -52.744655   -0.359086
-0.003324   -0.266214    -5.310927

COMB DB-G2-2 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    14.659384   53.634941    0.675620
 0.003462    0.709736   86.381127
 0.57750    14.659384   53.634941    0.675620
 0.003462    0.426468   64.105553
 0.71833    14.659384   53.634941    0.675620
 0.003462    0.143334   45.060229
 0.85917    14.659384   53.634941    0.675620
 0.003462    0.145560   45.515755
 1.00000    14.659384   53.634941    0.675620
 0.003462    0.430276   47.833444

COMB DB-G2-2 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -30.965783   -39.622042   -0.687073
-0.003464   -0.721999   -27.375678
 0.57750   -30.965783   -39.622042   -0.687073
-0.003464   -0.433930   -10.899448
 0.71833   -30.965783   -39.622042   -0.687073
-0.003464   -0.145802    -1.142025
 0.85917   -30.965783   -39.622042   -0.687073
-0.003464   -0.140999    -1.221905
 1.00000   -30.965783   -39.622042   -0.687073
-0.003464   -0.423334   -11.304405

COMB DB-G2-3 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    21.276663   59.145998    1.155835
 0.003130    1.216680   104.451913
 0.57750    21.276663   59.145998    1.155835
 0.003130    0.730072   79.950300
 0.71833    21.276663   59.145998    1.155835
 0.003130    0.245527   57.892407
 0.85917    21.276663   59.145998    1.155835
 0.003130    0.239397   49.213468
 1.00000    21.276663   59.145998    1.155835
 0.003130    0.668442   43.255452

COMB DB-G2-3 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -42.442110   -48.935281   -1.067102
-0.003125   -1.121173   -56.804606
 0.57750   -42.442110   -48.935281   -1.067102
-0.003125   -0.673769   -36.444781
 0.71833   -42.442110   -48.935281   -1.067102
-0.003125   -0.226298   -20.894412
 0.85917   -42.442110   -48.935281   -1.067102
-0.003125   -0.239747   -12.522406
 1.00000   -42.442110   -48.935281   -1.067102
-0.003125   -0.723749   -12.607061
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      2457

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    22.724839   59.510612    1.155111
 0.002943    1.213793   106.882240
 0.57750    22.724839   59.510612    1.155111
 0.002943    0.729489   82.179486
 0.71833    22.724839   59.510612    1.155111
 0.002943    0.245203   59.417211
 0.85917    22.724839   59.510612    1.155111
 0.002943    0.232478   48.268674
 1.00000    22.724839   59.510612    1.155111
 0.002943    0.697645   38.451632

COMB DB-G2-4 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -40.758347   -42.228831   -1.114130
-0.002946   -1.170940   -50.306461
 0.57750   -40.758347   -42.228831   -1.114130
-0.002946   -0.703718   -32.699354
 0.71833   -40.758347   -42.228831   -1.114130
-0.002946   -0.236484   -19.106131
 0.85917   -40.758347   -42.228831   -1.114130
-0.002946   -0.269916   -11.431761
 1.00000   -40.758347   -42.228831   -1.114130
-0.002946   -0.723423   -12.759907

COMB DB-G3-1 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    3.237662    14.042602    0.304601
 0.000514    0.319995    27.522436
 0.57750    3.237662    14.042602    0.304601
 0.000514    0.192285    21.650943
 0.71833    3.237662    14.042602    0.304601
 0.000514    0.064563    15.788184
 0.85917    3.237662    14.042602    0.304601
 0.000514    0.069005    10.108797
 1.00000    3.237662    14.042602    0.304601
 0.000514    0.209612     4.491273

COMB DB-G3-1 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -10.316380   -2.591248    -0.335321
-0.000527   -0.352749   -4.894607
 0.57750   -10.316380   -2.591248    -0.335321
-0.000527   -0.212158   -3.847869
 0.71833   -10.316380   -2.591248    -0.335321
-0.000527   -0.071488   -2.810428
 0.85917   -10.316380   -2.591248    -0.335321
-0.000527   -0.063125   -1.850736
 1.00000   -10.316380   -2.591248    -0.335321
-0.000527   -0.190846   -1.232887

COMB DB-G3-2 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    29.395531   43.208054    0.514255
 0.000995    0.540064   67.090617
 0.57750    29.395531   43.208054    0.514255
 0.000995    0.324452   49.299769
 0.71833    29.395531   43.208054    0.514255
 0.000995    0.109010   32.948569
 0.85917    29.395531   43.208054    0.514255
 0.000995    0.128482   19.583228
 1.00000    29.395531   43.208054    0.514255
 0.000995    0.389345    7.553870

COMB DB-G3-2 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -14.324600   -5.016847    -0.622429
-0.001012   -0.654518   -7.947296
 0.57750   -14.324600   -5.016847    -0.622429
-0.001012   -0.393552   -5.850000
 0.71833   -14.324600   -5.016847    -0.622429
-0.001012   -0.132483   -4.029934
 0.85917   -14.324600   -5.016847    -0.622429
-0.001012   -0.106786   -3.761265
 1.00000   -14.324600   -5.016847    -0.622429
-0.001012   -0.322385  -13.035712
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      2458

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    14.502485   49.622235    0.786228
 0.001238    0.825808   87.358132
 0.57750    14.502485   49.622235    0.786228
 0.001238    0.496126   66.737665
 0.71833    14.502485   49.622235    0.786228
 0.001238    0.166627   46.954535
 0.85917    14.502485   49.622235    0.786228
 0.001238    0.179167   29.269792
 1.00000    14.502485   49.622235    0.786228
 0.001238    0.542279   12.297977

COMB DB-G3-3 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -22.539967   -6.002966    -0.866443
-0.001249   -0.910817   -8.166389
 0.57750   -22.539967   -6.002966    -0.866443
-0.001249   -0.547543   -5.658836
 0.71833   -22.539967   -6.002966    -0.866443
-0.001249   -0.184131   -3.592427
 0.85917   -22.539967   -6.002966    -0.866443
-0.001249   -0.163160   -2.767062
 1.00000   -22.539967   -6.002966    -0.866443
-0.001249   -0.492760   -6.469224

COMB DB-G3-4 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    15.031055   65.923355    1.062710
 0.003158    1.116651   119.852395
 0.57750    15.031055   65.923355    1.062710
 0.003158    0.671088   92.365548
 0.71833    15.031055   65.923355    1.062710
 0.003158    0.225569   67.139819
 0.85917    15.031055   65.923355    1.062710
 0.003158    0.216972   55.571188
 1.00000    15.031055   65.923355    1.062710
 0.003158    0.649946   45.355579

COMB DB-G3-4 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -48.274817   -38.876334   -1.038222
-0.003150   -1.091235   -38.964921
 0.57750   -48.274817   -38.876334   -1.038222
-0.003150   -0.655940   -22.813997
 0.71833   -48.274817   -38.876334   -1.038222
-0.003150   -0.220526   -11.392820
 0.85917   -48.274817   -38.876334   -1.038222
-0.003150   -0.220650    -6.904893
 1.00000   -48.274817   -38.876334   -1.038222
-0.003150   -0.665600    -9.719400

COMB DL-G1-1 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    47.364835    5.500886    1.212584
 0.001000    1.274399   10.631967
 0.57750    47.364835    5.500886    1.212584
 0.001000    0.765812    8.333756
 0.71833    47.364835    5.500886    1.212584
 0.001000    0.256917    6.051302
 0.85917    47.364835    5.500886    1.212584
 0.001000    0.265048    3.812804
 1.00000    47.364835    5.500886    1.212584
 0.001000    0.801061    1.719066

COMB DL-G1-1 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -5.679682   -80.151667   -1.278491
-0.001027   -1.343056  -154.238547
 0.57750   -5.679682   -80.151667   -1.278491
-0.001027   -0.806986  -120.869369
 0.71833   -5.679682   -80.151667   -1.278491
-0.001027   -0.271059   -87.061031
 0.85917   -5.679682   -80.151667   -1.278491
-0.001027   -0.249733   -53.512176
 1.00000   -5.679682   -80.151667   -1.278491
-0.001027   -0.758722   -20.209728
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      2459

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    43.674326   29.074810    1.986750
 0.004369    2.085419   51.140426
 0.57750    43.674326   29.074810    1.986750
 0.004369    1.252273   39.761214
 0.71833    43.674326   29.074810    1.986750
 0.004369    0.419959   33.787781
 0.85917    43.674326   29.074810    1.986750
 0.004369    0.400498   52.426988
 1.00000    43.674326   29.074810    1.986750
 0.004369    1.186324   73.930358

COMB DL-G1-2 ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
 0.43667   -47.604049  -148.562455   -1.890556
-0.004397   -1.984291  -201.353736
 0.57750   -47.604049  -148.562455   -1.890556
-0.004397   -1.191619  -139.699874
 0.71833   -47.604049  -148.562455   -1.890556
-0.004397   -0.400690   -89.012857
 0.85917   -47.604049  -148.562455   -1.890556
-0.004397   -0.417939   -52.659040
 1.00000   -47.604049  -148.562455   -1.890556
-0.004397   -1.245801   -24.617098

COMB DL-G1-3 ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
 0.43667    41.085819   62.152738    2.244968
 0.003591    2.357521   111.339634
 0.57750    41.085819   62.152738    2.244968
 0.003591    1.416093   85.825361
```

```
0.71833    41.085819    62.152738     2.244968
 0.003591     0.474470    64.094606
0.85917    41.085819    62.152738     2.244968
 0.003591     0.449303    59.690152
1.00000    41.085819    62.152738     2.244968
 0.003591     1.343038    56.831299

COMB DL-G1-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -43.312996 -118.233756   -2.142589
-0.003616   -2.250284 -169.331970
0.57750   -43.312996 -118.233756   -2.142589
-0.003616   -1.351819 -120.173799
0.71833   -43.312996 -118.233756   -2.142589
-0.003616   -0.454609  -78.766233
0.85917   -43.312996 -118.233756   -2.142589
-0.003616   -0.467552  -47.424522
1.00000   -43.312996 -118.233756   -2.142589
-0.003616   -1.406114  -21.571665

COMB DL-G1-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667    52.764313    88.726799     2.215247
 0.003274     2.326669   150.633781
0.57750    52.764313    88.726799     2.215247
 0.003274     1.397627   113.899598
0.71833    52.764313    88.726799     2.215247
 0.003274     0.468574    80.388268
0.85917    52.764313    88.726799     2.215247
 0.003274     0.450102    62.269888
1.00000    52.764313    88.726799     2.215247
 0.003274     1.348853    49.622264

COMB DL-G1-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -41.953956 -100.736661   -2.152458
-0.003300   -2.261046 -145.713934
0.57750   -41.953956 -100.736661   -2.152458
-0.003300   -1.358502 -103.825665
0.71833   -41.953956 -100.736661   -2.152458
-0.003300   -0.456843  -68.367181
0.85917   -41.953956 -100.736661   -2.152458
-0.003300   -0.460636  -41.676839
1.00000   -41.953956 -100.736661   -2.152458
-0.003300   -1.387204  -25.993292
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2460

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667    0.174487    28.761167     0.761975
 0.002451     0.798867    55.535530
0.57750    0.174487    28.761167     0.761975
 0.002451     0.479311    44.141205
0.71833    0.174487    28.761167     0.761975
 0.002451     0.160632    36.623734
0.85917    0.174487    28.761167     0.761975
 0.002451     0.129042    46.596686
1.00000    0.174487    28.761167     0.761975
 0.002451     0.373866    59.971161

COMB DL-G2-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -49.742844   -54.875592    -0.595194
-0.002451   -0.624358   -41.857551
0.57750   -49.742844   -54.875592    -0.595194
-0.002451   -0.374831   -19.387409
0.71833   -49.742844   -54.875592    -0.595194
-0.002451   -0.126388    -4.660637
0.85917   -49.742844   -54.875592    -0.595194
-0.002451   -0.162913    -0.203736
1.00000   -49.742844   -54.875592    -0.595194
-0.002451   -0.478587    -4.452854

COMB DL-G2-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667   15.033575    82.954346     1.202244
 0.002646     1.261812   141.773961
0.57750   15.033575    82.954346     1.202244
 0.002646     0.757491   107.500436
0.71833   15.033575    82.954346     1.202244
 0.002646     0.253742    76.887705
0.85917   15.033575    82.954346     1.202244
 0.002646     0.228218    63.970311
1.00000   15.033575    82.954346     1.202244
 0.002646     0.675797    55.474724

COMB DL-G2-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -43.241628   -42.598287    -1.077977
-0.002650   -1.132071   -29.318897
0.57750   -43.241628   -42.598287    -1.077977
-0.002650   -0.680030   -11.851547
0.71833   -43.241628   -42.598287    -1.077977
-0.002650   -0.228966    -1.679614
0.85917   -43.241628   -42.598287    -1.077977
-0.002650   -0.252486    -1.476538
1.00000   -43.241628   -42.598287    -1.077977
-0.002650   -0.753484   -10.589821

COMB DL-G2-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667   27.263797    88.646964     2.011470
 0.002415     1.315784   158.953464
0.57750   27.263797    88.646964     2.011470
 0.002415     1.269150   122.155614
0.71833   27.263797    88.646964     2.011470
 0.002415     0.425231    87.792125
0.85917   27.263797    88.646964     2.011470
 0.002415     0.388832    65.358280
1.00000   27.263797    88.646964     2.011470
 0.002415     1.167404    47.161635

COMB DL-G2-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -53.570026   -67.772657    -1.863430
-0.002403   -1.957799   -90.396962
0.57750   -53.570026   -67.772657    -1.863430
-0.002403   -1.176490   -62.287661
0.71833   -53.570026   -67.772657    -1.863430
-0.002403   -0.395708   -38.950934
0.85917   -53.570026   -67.772657    -1.863430
-0.002403   -0.417594   -22.404441
1.00000   -53.570026   -67.772657    -1.863430
-0.002403   -1.259524   -13.947919
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2461

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667    29.143159    98.010468     2.054250
 0.002330     2.158052   175.733682
0.57750    29.143159    98.010468     2.054250
 0.002330     1.296478   134.957885
0.71833    29.143159    98.010468     2.054250
 0.002330     0.434777    96.223166
0.85917    29.143159    98.010468     2.054250
 0.002330     0.397627    67.292947
1.00000    29.143159    98.010468     2.054250
 0.002330     1.196381    43.039292

COMB DL-G2-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -53.299943   -59.400105    -1.910322
-0.002332   -2.007513   -81.103571
0.57750   -53.299943   -59.400105    -1.910322
-0.002332   -1.206574   -56.455643
0.71833   -53.299943   -59.400105    -1.910322
-0.002332   -0.405861   -35.813970
0.85917   -53.299943   -59.400105    -1.910322
-0.002332   -0.425917   -20.771901
1.00000   -53.299943   -59.400105    -1.910322
-0.002332   -1.285998   -14.259932

COMB DL-G3-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667    5.346148    27.221969     0.613908
 0.000493     0.645464    53.577592
0.57750    5.346148    27.221969     0.613908
 0.000493     0.387937    42.174327
0.71833    5.346148    27.221969     0.613908
 0.000493     0.130502    30.785298
0.85917    5.346148    27.221969     0.613908
 0.000493     0.110568    19.597752
1.00000    5.346148    27.221969     0.613908
 0.000493     0.336743     8.867606

COMB DL-G3-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -20.844441    -6.211067    -0.538346
-0.000513   -0.566614   -10.764266
0.57750   -20.844441    -6.211067    -0.538346
-0.000513   -0.340961    -8.316472
0.71833   -20.844441    -6.211067    -0.538346
-0.000513   -0.114794    -5.886450
0.85917   -20.844441    -6.211067    -0.538346
-0.000513   -0.126494    -3.587640
1.00000   -20.844441    -6.211067    -0.538346
-0.000513   -0.384069    -1.848417

COMB DL-G3-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667   33.079333    82.624137     1.023240
 0.000880     1.075699   136.195618
0.57750   33.079333    82.624137     1.023240
 0.000880     0.646629   101.571673
0.71833   33.079333    82.624137     1.023240
 0.000880     0.217269    67.260281
0.85917   33.079333    82.624137     1.023240
 0.000880     0.205721    36.201824
1.00000   33.079333    82.624137     1.023240
 0.000880     0.624742    11.405273

COMB DL-G3-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -24.589009    -8.433883    -0.998257
-0.000907   -1.049944   -14.308763
0.57750   -24.589009    -8.433883    -0.998257
-0.000907   -0.631485   -11.390600
0.71833   -24.589009    -8.433883    -0.998257
-0.000907   -0.212309    -8.095299
0.85917   -24.589009    -8.433883    -0.998257
-0.000907   -0.210928    -6.054567
1.00000   -24.589009    -8.433883    -0.998257
-0.000907   -0.640295   -13.997337
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2462

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667   19.582620    93.508156     1.452118
 0.000941     1.526404   167.959989
0.57750   19.582620    93.508156     1.452118
 0.000941     0.917310   128.774236
0.71833   19.582620    93.508156     1.452118
 0.000941     0.307513    89.701686
0.85917   19.582620    93.508156     1.452118
 0.000941     0.274138    52.080940
1.00000   19.582620    93.508156     1.452118
 0.000941     0.833978    17.956834

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -40.466708    -8.298540    -1.332722
-0.000964   -1.401999   -14.639384
0.57750   -40.466708    -8.298540    -1.332722
-0.000964   -0.843570   -11.177575
0.71833   -40.466708    -8.298540    -1.332722
-0.000964   -0.283781    -7.730093
0.85917   -40.466708    -8.298540    -1.332722
-0.000964   -0.298332    -4.884027
1.00000   -40.466708    -8.298540    -1.332722
-0.000964   -0.908176    -7.935231

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667   20.812800   101.335951     1.945675
 0.002315     2.043929   186.032596
0.57750   20.812800   101.335951     1.945675
 0.002315     1.227966   143.895531
0.71833   20.812800   101.335951     1.945675
 0.002315     0.411748   103.995359
0.85917   20.812800   101.335951     1.945675
 0.002315     0.363635    75.032297
1.00000   20.812800   101.335951     1.945675
 0.002315     1.094701    50.242055

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -65.633285   -47.929571    -1.747514
-0.002333   -1.836688   -56.388357
0.57750   -65.633285   -47.929571    -1.747514
-0.002333   -1.104374   -36.582140
0.71833   -65.633285   -47.929571    -1.747514
-0.002333   -0.371548   -21.152598
0.85917   -65.633285   -47.929571    -1.747514
-0.002333   -0.403820   -11.953552
1.00000   -65.633285   -47.929571    -1.747514
-0.002333   -1.218344   -10.774301

COMB       DB ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667    33.506417    65.923355     1.337411
 0.004822     1.405648   119.852395
0.57750    33.506417    65.923355     1.337411
 0.004822     0.844912    92.365548
0.71833    33.506417    65.923355     1.337411
 0.004822     0.284073    67.139819
0.85917    33.506417    65.923355     1.337411
 0.004822     0.257068    55.570188
1.00000    33.506417    65.923355     1.337411
 0.004822     0.770397    59.040476

COMB       DB ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -48.274817   -96.142454    -1.230046
-0.004817   -1.292488  -115.284859
0.57750   -48.274817   -96.142454    -1.230046
-0.004817   -0.776767   -75.161073
0.71833   -48.274817   -96.142454    -1.230046
-0.004817   -0.260946   -44.254958
0.85917   -48.274817   -96.142454    -1.230046
-0.004817   -0.277340   -25.350976
1.00000   -48.274817   -96.142454    -1.230046
-0.004817   -0.837304   -19.162214
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2463

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667    52.764313   101.335951     2.244968
 0.004369     2.357521   186.032596
0.57750    52.764313   101.335951     2.244968
 0.004369     1.416093   143.895531
0.71833    52.764313   101.335951     2.244968
 0.004369     0.474470   103.995359
0.85917    52.764313   101.335951     2.244968
 0.004369     0.450102    75.032297
1.00000    52.764313   101.335951     2.244968
 0.004369     1.348853    73.930358

COMB       DL ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -65.633285  -148.562455    -2.152458
-0.004397   -2.261046  -201.353736
0.57750   -65.633285  -148.562455    -2.152458
-0.004397   -1.358502  -139.699874
0.71833   -65.633285  -148.562455    -2.152458
-0.004397   -0.456843   -89.012857
0.85917   -65.633285  -148.562455    -2.152458
-0.004397   -0.467552   -53.512176
1.00000   -65.633285  -148.562455    -2.152458
-0.004397   -1.406114   -25.993292

COMB       CAR ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667    52.764313   101.335951     2.244968
 0.004822     2.357521   186.032596
0.57750    52.764313   101.335951     2.244968
 0.004822     1.416093   143.895531
0.71833    52.764313   101.335951     2.244968
 0.004822     0.474470   103.995359
0.85917    52.764313   101.335951     2.244968
 0.004822     0.450102    75.032297
1.00000    52.764313   101.335951     2.244968
 0.004822     1.348853    73.930358

COMB       CAR ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -65.633285  -148.562455    -2.152458
-0.004817   -2.261046  -201.353736
0.57750   -65.633285  -148.562455    -2.152458
-0.004817   -1.358502  -139.699874
0.71833   -65.633285  -148.562455    -2.152458
-0.004817   -0.456843   -89.012857
0.85917   -65.633285  -148.562455    -2.152458
-0.004817   -0.467552   -53.512176
1.00000   -65.633285  -148.562455    -2.152458
-0.004817   -1.406114   -25.993292

COMB       DESIGN ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43667    52.764313   101.335951     2.244968
 0.004822     2.357521   186.032596
0.57750    52.764313   101.335951     2.244968
 0.004822     1.416093   143.895531
0.71833    52.764313   101.335951     2.244968
 0.004822     0.474470   103.995359
0.85917    52.764313   101.335951     2.244968
 0.004822     0.450102    75.032297
1.00000    52.764313   101.335951     2.244968
 0.004822     1.348853    73.930358

COMB       DESIGN ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43667   -65.633285  -148.562455    -2.152458
-0.004817   -2.261046  -201.353736
0.57750   -65.633285  -148.562455    -2.152458
-0.004817   -1.358502  -139.699874
0.71833   -65.633285  -148.562455    -2.152458
-0.004817   -0.456843   -89.012857
0.85917   -65.633285  -148.562455    -2.152458
-0.004817   -0.467552   -53.512176
1.00000   -65.633285  -148.562455    -2.152458
-0.004817   -1.406114   -25.993292
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2464

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      223 ================== LENGTH
=     2.978117

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    20.609511    2.716922     0.774789
 0.000941     0.487710    1.158782
0.14087    20.609511    2.716922     0.774789
 0.000941     0.162645    8.004862
0.28174    20.609511    2.716922     0.774789
 0.000941     0.139832   23.693403
0.42261    20.609511    2.716922     0.774789
 0.000941     0.418741   38.988494
0.56348    20.609511    2.716922     0.774789
 0.000941     0.697784   54.496369

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -3.311832   -37.428484    -0.665135
-0.000945   -0.418391    -8.948008
0.14087    -3.311832   -37.428484    -0.665135
-0.000945   -0.139335    -0.621708
0.28174    -3.311832   -37.428484    -0.665135
-0.000945   -0.162394    -1.534792
0.42261    -3.311832   -37.428484    -0.665135
-0.000945   -0.487456    -2.539424
0.56348    -3.311832   -37.428484    -0.665135
-0.000945   -0.812503    -3.674812

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    20.447233    62.628876     1.201751
 0.004788     0.756236    59.038479
0.14087    20.447233    62.628876     1.201751
 0.004788     0.252035    46.256298
0.28174    20.447233    62.628876     1.201751
 0.004788     0.209301    42.508814
0.42261    20.447233    62.628876     1.201751
 0.004788     0.627230    63.549621
0.56348    20.447233    62.628876     1.201751
 0.004788     1.045136    87.186125

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -41.573064   -57.253888    -0.996134
-0.004804   -0.626488   -15.098719
0.14087   -41.573064   -57.253888    -0.996134
-0.004804   -0.212939    -3.023720
0.28174   -41.573064   -57.253888    -0.996134
-0.004804   -0.251989    -3.158049
0.42261   -41.573064   -57.253888    -0.996134
-0.004804   -0.756266   -23.199704
0.56348   -41.573064   -57.253888    -0.996134
-0.004804   -1.260435   -48.631552

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    18.338453    64.399473     1.357380
 0.003481     0.853650    42.119051
0.14087    18.338453    64.399473     1.357380
 0.003481     0.284155    29.383497
0.28174    18.338453    64.399473     1.357380
 0.003481     0.253840    28.827506
0.42261    18.338453    64.399473     1.357380
 0.003481     0.760024    45.169261
0.56348    18.338453    64.399473     1.357380
 0.003481     1.266144    63.278153

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -32.474218   -43.915313    -1.206406
-0.003493   -0.758343   -12.167474
0.14087   -32.474218   -43.915313    -1.206406
-0.003493   -0.255158    -7.371140
0.28174   -32.474218   -43.915313    -1.206406
-0.003493   -0.285163   -16.916468
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2465

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.42261   -32.474218   -43.915313    -1.206406
-0.003493   -0.854732   -39.714464
0.56348   -32.474218   -43.915313    -1.206406
-0.003493   -1.424192   -66.161928

COMB DB-G1-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    33.488136    71.694919     1.309552
 0.003340     0.823558    36.675882
0.14087    33.488136    71.694919     1.309552
 0.003340     0.274127    24.997220
0.28174    33.488136    71.694919     1.309552
 0.003340     0.261367    24.680011
0.42261    33.488136    71.694919     1.309552
 0.003340     0.782505    38.748274
0.56348    33.488136    71.694919     1.309552
 0.003340     1.303538    54.285431

COMB DB-G1-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -31.036586   -37.757342    -1.241953
-0.003345   -0.780602   -19.183584
0.14087   -31.036586   -37.757342    -1.241953
-0.003345   -0.261944   -21.435487
0.28174   -31.036586   -37.757342    -1.241953
-0.003345   -0.275128   -36.577610
0.42261   -31.036586   -37.757342    -1.241953
-0.003345   -0.824628   -62.716660
0.56348   -31.036586   -37.757342    -1.241953
-0.003345   -1.374023   -91.884590

COMB DB-G2-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.207812    57.317721     0.428536
 0.003062     0.269211    53.073905
0.14087    0.207812    57.317721     0.428536
 0.003062     0.089418    37.581511
0.28174    0.207812    57.317721     0.428536
 0.003062     0.076287    23.009116
0.42261    0.207812    57.317721     0.428536
 0.003062     0.238099    23.291271
0.56348    0.207812    57.317721     0.428536
 0.003062     0.379900    37.437132

COMB DB-G2-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -42.017176   -20.114461    -0.361839
-0.003066   -0.227305    -5.357162
0.14087   -42.017176   -20.114461    -0.361839
-0.003066   -0.079161    -2.119375
0.28174   -42.017176   -20.114461    -0.361839
-0.003066   -0.090356    -4.345392
0.42261   -42.017176   -20.114461    -0.361839
-0.003066   -0.270137   -23.288070
0.56348   -42.017176   -20.114461    -0.361839
-0.003066   -0.449920   -46.592314

COMB DB-G2-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    14.669607    82.745519     0.680891
 0.003056     0.427631    47.850553
0.14087    14.669607    82.745519     0.680891
 0.003056     0.141952    24.087136
0.28174    14.669607    82.745519     0.680891
 0.003056     0.145746     6.759230
0.42261    14.669607    82.745519     0.680891
 0.003056     0.435670     8.698575
0.56348    14.669607    82.745519     0.680891
 0.003056     0.725520    12.659918

COMB DB-G2-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -35.520491    -9.778156    -0.690902
-0.003058   -0.433890   -11.350070
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2466

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.14087   -35.520491    -9.778156    -0.690902
-0.003058   -0.147396   -19.136179
0.28174   -35.520491    -9.778156    -0.690902
-0.003058   -0.143640   -34.009401
0.42261   -35.520491    -9.778156    -0.690902
-0.003058   -0.429329   -64.020377
0.56348   -35.520491    -9.778156    -0.690902
-0.003058   -0.714982   -98.072150

COMB DB-G2-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    21.260352    80.462856     1.172981
 0.002925     0.737572    43.274915
0.14087    21.260352    80.462856     1.172981
 0.002925     0.245390    24.616950
```

```
0.28174    21.260352    80.462856    1.172981
 0.002925     0.226548    20.329418
0.42261    21.260352    80.462856    1.172981
 0.002925     0.678051    30.057407
0.56348    21.260352    80.462856    1.172981
 0.002925     1.129474    41.290486

COMB DB-G2-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -45.726591   -27.457586   -1.076028
-0.002936    -0.676225   -12.629259
0.14087   -45.726591   -27.457586   -1.076028
-0.002936    -0.227160   -17.323871
0.28174   -45.726591   -27.457586   -1.076028
-0.002936    -0.246539   -35.366170
0.42261   -45.726591   -27.457586   -1.076028
-0.002936    -0.738728   -65.445235
0.56348   -45.726591   -27.457586   -1.076028
-0.002936    -1.230827   -98.723178

COMB DB-G2-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    22.712735    77.447308    1.171416
 0.002908     0.736663    38.471865
0.14087    22.712735    77.447308    1.171416
 0.002908     0.245140    20.717533
0.28174    22.712735    77.447308    1.171416
 0.002908     0.236839    17.602025
0.42261    22.712735    77.447308    1.171416
 0.002908     0.708972    26.227321
0.56348    22.712735    77.447308    1.171416
 0.002908     1.180987    36.135706

COMB DB-G2-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -43.530842   -24.276083   -1.125112
-0.002906    -0.707082   -12.778627
0.14087   -43.530842   -24.276083   -1.125112
-0.002906    -0.236973   -19.000184
0.28174   -43.530842   -24.276083   -1.125112
-0.002906    -0.246144   -36.376415
0.42261   -43.530842   -24.276083   -1.125112
-0.002906    -0.737667   -65.343274
0.56348   -43.530842   -24.276083   -1.125112
-0.002906    -1.229111   -97.254807

COMB DB-G3-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000     3.247123    14.193177    0.309047
 0.000739     0.194549     4.496857
0.14087     3.247123    14.193177    0.309047
 0.000739     0.064883     2.524122
0.28174     3.247123    14.193177    0.309047
 0.000739     0.071693     3.538251
0.42261     3.247123    14.193177    0.309047
 0.000739     0.214830     4.580853
0.56348     3.247123    14.193177    0.309047
 0.000739     0.357897     5.626981
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2467

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -10.355633    -2.528205    -0.341018
-0.000733    -0.214371    -1.235775
0.14087   -10.355633    -2.528205    -0.341018
-0.000733    -0.071223    -2.695153
0.28174   -10.355633    -2.528205    -0.341018
-0.000733    -0.064747    -8.454645
0.42261   -10.355633    -2.528205    -0.341018
-0.000733    -0.194413   -14.277182
0.56348   -10.355633    -2.528205    -0.341018
-0.000733    -0.324067   -20.113405

COMB DB-G3-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    29.407709    44.366331    0.521553
 0.001335     0.328079     7.565527
0.14087    29.407709    44.366331    0.521553
 0.001335     0.109262     1.670355
0.28174    29.407709    44.366331    0.521553
 0.001335     0.132648     2.271127
0.42261    29.407709    44.366331    0.521553
 0.001335     0.397093     3.669802
0.56348    29.407709    44.366331    0.521553
 0.001335     0.661416     5.226240

COMB DB-G3-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -14.568022    -3.856738    -0.630048
-0.001312    -0.395879   -13.040615
0.14087   -14.568022    -3.856738    -0.630048
-0.001312    -0.131562    -2.269259
0.28174   -14.568022    -3.856738    -0.630048
-0.001312    -0.109517   -43.586600
0.42261   -14.568022    -3.856738    -0.630048
-0.001312    -0.328343   -61.773367
0.56348   -14.568022    -3.856738    -0.630048
-0.001312    -0.547150   -80.157979

COMB DB-G3-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    14.520998    52.055167    0.792830
 0.001129     0.498238    12.318814
0.14087    14.520998    52.055167    0.792830
 0.001129     0.165593     2.653199
0.28174    14.520998    52.055167    0.792830
 0.001129     0.184268     2.856895
0.42261    14.520998    52.055167    0.792830
 0.001129     0.551197     4.328475
0.56348    14.520998    52.055167    0.792830
 0.001129     0.917984     5.999541

COMB DB-G3-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -22.943888    -4.110400    -0.874289
-0.001111    -0.549174    -6.477465
0.14087   -22.943888    -4.110400    -0.874289
-0.001111    -0.182470   -18.315025
0.28174   -22.943888    -4.110400    -0.874289
-0.001111    -0.166938   -38.405846
0.42261   -22.943888    -4.110400    -0.874289
-0.001111    -0.499608   -59.755263
0.56348   -22.943888    -4.110400    -0.874289
-0.001111    -0.832223   -81.400367

COMB DB-G3-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    15.033715    86.909214    1.077148
 0.003193     0.677357    45.375766
0.14087    15.033715    86.909214    1.077148
 0.003193     0.225380    21.798757
0.28174    15.033715    86.909214    1.077148
 0.003193     0.220825    13.511902
0.42261    15.033715    86.909214    1.077148
 0.003193     0.660973    19.158417
0.56348    15.033715    86.909214    1.077148
 0.003193     1.101001    26.372308
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2468

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -51.528985   -17.783688   -1.048865
-0.003183    -0.659115    -9.748637
0.14087   -51.528985   -17.783688   -1.048865
-0.003183    -0.221357   -16.444932
0.28174   -51.528985   -17.783688   -1.048865
-0.003183    -0.226356   -36.956433
0.42261   -51.528985   -17.783688   -1.048865
-0.003183    -0.678327   -69.903014
0.56348   -51.528985   -17.783688   -1.048865
-0.003183    -1.130223  -105.778943

COMB DL-G1-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    47.298844     5.530539    1.223293
 0.001008     0.769171     1.711653
0.14087    47.298844     5.530539    1.223293
 0.001008     0.255480    14.084405
0.28174    47.298844     5.530539    1.223293
 0.001008     0.670127    47.394999
0.42261    47.298844     5.530539    1.223293
 0.001008     0.808077    80.777566
0.56348    47.298844     5.530539    1.223293
 0.001008     1.346075   114.173990

COMB DL-G1-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000    -5.667354   -79.794707   -1.282407
-0.001011    -0.805922   -20.182492
0.14087    -5.667354   -79.794707   -1.282407
-0.001011    -0.267988    -1.175611
0.28174    -5.667354   -79.794707   -1.282407
-0.001011    -0.256087    -3.328526
0.42261    -5.667354   -79.794707   -1.282407
-0.001011    -0.769874    -5.573511
0.56348    -5.667354   -79.794707   -1.282407
-0.001011    -1.283211    -7.882447

COMB DL-G1-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    43.577973    80.481320    2.003954
 0.004500     1.261979    73.966935
0.14087    43.577973    80.481320    2.003954
 0.004500     0.425564    60.923225
0.28174    43.577973    80.481320    2.003954
 0.004500     0.399908    68.616783
0.42261    43.577973    80.481320    2.003954
 0.004500     1.196472   104.201510
0.56348    43.577973    80.481320    2.003954
 0.004500     1.994803   144.766975

COMB DL-G1-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -54.823600   -98.032095   -1.903011
-0.004533    -1.198651   -44.641707
0.14087   -54.823600   -98.032095   -1.903011
-0.004533    -0.407558    -3.622679
0.28174   -54.823600   -98.032095   -1.903011
-0.004533    -0.419383    -5.944373
0.42261   -54.823600   -98.032095   -1.903011
-0.004533    -1.259444   -32.093800
0.56348   -54.823600   -98.032095   -1.903011
-0.004533    -2.100284   -65.384129

COMB DL-G1-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    41.007483    99.668022    2.271425
 0.003409     1.428871    56.882390
0.14087    41.007483    99.668022    2.271425
 0.003409     0.478159    43.114617
0.28174    41.007483    99.668022    2.271425
 0.003409     0.455051    54.202025
0.42261    41.007483    99.668022    2.271425
 0.003409     1.362066    84.849128
0.56348    41.007483    99.668022    2.271425
 0.003409     2.270335   118.981174
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2469

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -48.562357   -82.289141   -2.164664
-0.003437    -1.362273   -21.588250
0.14087   -48.562357   -82.289141   -2.164664
-0.003437    -0.459209    -1.411418
0.28174   -48.562357   -82.289141   -2.164664
-0.003437    -0.475129   -34.238880
0.42261   -48.562357   -82.289141   -2.164664
-0.003437    -1.428498   -70.730932
0.56348   -48.562357   -82.289141   -2.164664
-0.003437    -2.381663  -112.242516

COMB DL-G1-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    52.699422   119.903266    2.245310
 0.003260     1.412219    49.672630
0.14087    52.699422   119.903266    2.245310
 0.003260     0.472129    36.162407
0.28174    52.699422   119.903266    2.245310
 0.003260     0.457974    46.448392
0.42261    52.699422   119.903266    2.245310
 0.003260     1.370724    72.986789
0.56348    52.699422   119.903266    2.245310
 0.003260     2.284604   102.419628

COMB DL-G1-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -46.349753   -70.962342   -2.177978
-0.003274    -1.370235   -26.008520
0.14087   -46.349759   -70.962342   -2.177978
-0.003274    -0.460736   -33.096417
0.28174   -46.349759   -70.962342   -2.177978
-0.003274    -0.469872   -65.097484
0.42261   -46.349759   -70.962342   -2.177978
-0.003274    -1.412184  -110.895283
0.56348   -46.349759   -70.962342   -2.177978
-0.003274    -2.354456  -160.853056

COMB DL-G2-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000     0.172181    65.476043    0.771743
 0.002345     0.486172    60.013081
0.14087     0.172181    65.476043    0.771743
 0.002345     0.165849    39.799003
0.28174     0.172181    65.476043    0.771743
 0.002345     0.157302    24.178035
0.42261     0.172181    65.476043    0.771743
 0.002345     0.381305    28.539927
0.56348     0.172181    65.476043    0.771743
 0.002345     0.636371    36.450235

COMB DL-G2-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -54.866012   -19.852276   -0.608112
-0.002349    -0.384163    -4.494031
0.14087   -54.866012   -19.852276   -0.608112
-0.002349    -0.133993    -2.031145
0.28174   -54.866012   -19.852276   -0.608112
-0.002349    -0.161638    -6.759216
0.42261   -54.866012   -19.852276   -0.608112
-0.002349    -0.484575   -28.751923
0.56348   -54.866012   -19.852276   -0.608112
-0.002349    -0.808432   -55.806628

COMB DL-G2-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    15.046996   118.648377    1.223436
 0.002426     0.769579    55.648757
0.14087    15.046996   118.648377    1.223436
 0.002426     0.259178    26.560034
0.28174    15.046996   118.648377    1.223436
 0.002426     0.231024     8.462819
0.42261    15.046996   118.648377    1.223436
 0.002426     0.691817     8.793270
0.56348    15.046996   118.648377    1.223436
 0.002426     1.153645    12.411670
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2470

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -48.258258    -9.330788    -1.100607
-0.002428    -0.693391   -10.636500
0.14087   -48.258258    -9.330788    -1.100607
-0.002428    -0.236239   -27.801960
0.28174   -48.258258    -9.330788    -1.100607
-0.002428    -0.255943   -56.979729
0.42261   -48.258258    -9.330788    -1.100607
-0.002428    -0.768927  -101.793117
0.56348   -48.258258    -9.330788    -1.100607
-0.002428    -1.282413  -151.285289

COMB DL-G2-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    27.216823   112.344155    2.036513
 0.002381     1.280339    47.213196
0.14087    27.216823   112.344155    2.036513
 0.002381     0.426984    31.277435
0.28174    27.216823   112.344155    2.036513
 0.002381     0.396665    35.195761
0.42261    27.216823   112.344155    2.036513
 0.002381     1.187509    51.684485
0.56348    27.216823   112.344155    2.036513
 0.002381     1.978951    70.409401

COMB DL-G2-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -56.895415   -45.462739   -1.886426
-0.002441    -1.186801   -15.957845
0.14087   -56.895415   -45.462739   -1.886426
-0.002441    -0.398310   -25.325606
0.28174   -56.895415   -45.462739   -1.886426
-0.002441    -0.426495   -58.470634
0.42261   -56.895415   -45.462739   -1.886426
-0.002441    -1.281403  -102.206505
0.56348   -56.895415   -45.462739   -1.886426
-0.002441    -2.136022  -149.085053

COMB DL-G2-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    29.115659   117.986854    2.083647
 0.002455     1.309988    43.090705
0.14087    29.115659   117.986854    2.083647
 0.002455     0.436808    26.371416
0.28174    29.115659   117.986854    2.083647
 0.002455     0.407377    30.727232
0.42261    29.115659   117.986854    2.083647
 0.002455     1.182154    45.631567
0.56348    29.115659   117.986854    2.083647
 0.002455     2.033394    62.415155

COMB DL-G2-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -56.133942   -40.741747   -1.938290
-0.002494    -1.219362   -14.271975
0.14087   -56.133942   -40.741747   -1.938290
-0.002494    -0.408535   -29.698767
0.28174   -56.133942   -40.741747   -1.938290
-0.002494    -0.436830   -66.726032
0.42261   -56.133942   -40.741747   -1.938290
-0.002494    -1.311043  -113.101267
0.56348   -56.133942   -40.741747   -1.938290
-0.002494    -2.185480  -162.317406

COMB DL-G3-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000     5.368656    27.530599    0.627469
 0.000749     0.394633     8.879623
0.14087     5.368656    27.530599    0.627469
 0.000749     0.131351     2.655977
0.28174     5.368656    27.530599    0.627469
 0.000749     0.115834     5.200933
0.42261     5.368656    27.530599    0.627469
 0.000749     0.348258     7.805816
0.56348     5.368656    27.530599    0.627469
 0.000749     0.580396    10.423274
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2471

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -20.916408    -6.260191    -0.553107
-0.000743    -0.348303    -1.854985
0.14087   -20.916408    -6.260191    -0.553107
-0.000743    -0.115767    -3.976752
0.28174   -20.916408    -6.260191    -0.553107
-0.000743    -0.131651   -15.381678
0.42261   -20.916408    -6.260191    -0.553107
-0.000743    -0.394902   -26.868709
0.56348   -20.916408    -6.260191    -0.553107
-0.000743    -0.658293   -38.369033

COMB DL-G3-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    33.086499    84.149016    1.046541
 0.001305     0.658208    11.428875
0.14087    33.086499    84.149016    1.046541
 0.001305     0.219029     1.981127
0.28174    33.086499    84.149016    1.046541
 0.001305     0.216236     4.402786
0.42261    33.086499    84.149016    1.046541
 0.001305     0.643489     7.422796
0.56348    33.086499    84.149016    1.046541
 0.001305     1.071216    10.576091

COMB DL-G3-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -24.854062    -7.585523   -1.020696
-0.001235    -0.642484   -14.005342
0.14087   -24.854062    -7.585523   -1.020696
-0.001235    -0.213313   -37.475871
0.28174   -24.854062    -7.585523   -1.020696
-0.001235    -0.219414   -71.977536
0.42261   -24.854062    -7.585523   -1.020696
-0.001235    -0.658898  -107.063799
0.56348   -24.854062    -7.585523   -1.020696
-0.001235    -1.097970  -142.311238

COMB DL-G3-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    19.619142    95.118464    1.483140
 0.001005     0.931882    18.003890
0.14087    19.619142    95.118464    1.483140
 0.001005     0.308835     3.130057
0.28174    19.619142    95.118464    1.483140
 0.001005     0.286660     6.480638
0.42261    19.619142    95.118464    1.483140
 0.001005     0.860171     9.951317
0.56348    19.619142    95.118464    1.483140
 0.001005     1.432839    13.464039

COMB DL-G3-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -40.708918    -8.449037   -1.365173
-0.000942    -0.858727    -7.948704
0.14087   -40.708918    -8.449037   -1.365173
-0.000942    -0.285149   -29.360737
0.28174   -40.708918    -8.449037   -1.365173
-0.000942    -0.310595   -68.975875
0.42261   -40.708918    -8.449037   -1.365173
-0.000942    -0.933830  -108.776701
0.56348   -40.708918    -8.449037   -1.365173
-0.000942    -1.556274  -148.615843

COMB DL-G3-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    20.813425   123.052464    1.975476
 0.002600     1.242204    50.299839
0.14087    20.813425   123.052464    1.975476
 0.002600     0.414625    26.162471
0.28174    20.813425   123.052464    1.975476
 0.002600     0.373391    23.721226
0.42261    20.813425   123.052464    1.975476
 0.002600     1.119326    33.002485
0.56348    20.813425   123.052464    1.975476
 0.002600     1.865267    44.399225
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2472

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -68.711558   -27.934422   -1.778164
-0.002553    -1.119238   -10.797965
0.14087   -68.711558   -27.934422   -1.778164
-0.002553    -0.375341   -25.789365
0.28174   -68.711558   -27.934422   -1.778164
-0.002553    -0.413903   -64.268027
0.42261   -68.711558   -27.934422   -1.778164
-0.002553    -1.243108  -112.709796
0.56348   -68.711558   -27.934422   -1.778164
-0.002553    -2.072118  -164.046309

COMB      DB ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    33.488136    86.909214    1.357380
 0.004788     0.853650    59.038479
0.14087    33.488136    86.909214    1.357380
 0.004788     0.284155    46.256298
0.28174    33.488136    86.909214    1.357380
 0.004788     0.261367    42.508814
0.42261    33.488136    86.909214    1.357380
 0.004788     0.782544    63.549621
0.56348    33.488136    86.909214    1.357380
 0.004788     1.303538    87.186125

COMB      DB ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -51.528985   -57.253888   -1.241953
-0.004804    -0.780602   -18.183584
0.14087   -51.528985   -57.253888   -1.241953
-0.004804    -0.261944   -26.269259
0.28174   -51.528985   -57.253888   -1.241953
-0.004804    -0.285164   -43.586600
0.42261   -51.528985   -57.253888   -1.241953
-0.004804    -0.854732   -69.903014
0.56348   -51.528985   -57.253888   -1.241953
-0.004804    -1.424192  -105.778943

COMB      DL ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    52.699422   123.052464    2.271425
 0.004500     1.428871    73.966935
0.14087    52.699422   123.052464    2.271425
 0.004500     0.478159    60.923225
0.28174    52.699422   123.052464    2.271425
 0.004500     0.457974    68.616783
0.42261    52.699422   123.052464    2.271425
 0.004500     1.370724   104.201510
0.56348    52.699422   123.052464    2.271425
 0.004500     2.284604   144.766975

COMB      DL ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
0.00000   -68.711558   -98.032095   -2.177978
-0.004533    -1.370235   -26.008520
0.14087   -68.711558   -98.032095   -2.177978
-0.004533    -0.460736   -37.475871
0.28174   -68.711558   -98.032095   -2.177978
-0.004533    -0.475129   -71.977536
0.42261   -68.711558   -98.032095   -2.177978
-0.004533    -1.428498  -113.101267
0.56348   -68.711558   -98.032095   -2.177978
-0.004533    -2.381663  -164.046309

COMB      CAR ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
0.00000    52.699422   123.052464    2.271425
 0.004788     1.428871    73.966935
0.14087    52.699422   123.052464    2.271425
 0.004788     0.478159    60.923225
0.28174    52.699422   123.052464    2.271425
 0.004788     0.457974    68.616783
0.42261    52.699422   123.052464    2.271425
 0.004788     1.370724   104.201510
0.56348    52.699422   123.052464    2.271425
 0.004788     2.284604   144.766975
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2473

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN
```

```
REL DIST          P          V2          V3
         T         M2         M3
0.00000   -68.711558  -98.032095  -2.177978
-0.004804   -1.370235  -26.008520
0.14087   -68.711558  -98.032095  -2.177978
-0.004804   -0.460736  -37.475871
0.28174   -68.711558  -98.032095  -2.177978
-0.004804   -0.475129  -71.977536
0.42261   -68.711558  -98.032095  -2.177978
-0.004804   -1.428498  -113.101267
0.56348   -68.711558  -98.032095  -2.177978
-0.004804   -2.381663  -164.046309

COMB  DESIGN ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   52.699422  123.052464   2.271425
 0.004788   -1.428871   73.964645
0.14087   52.699422  123.052464   2.271425
 0.004788    0.478159   60.923225
0.28174   52.699422  123.052464   2.271425
 0.004788    0.457974   68.616783
0.42261   52.699422  123.052464   2.271425
 0.004788    1.370724  104.201510
0.56348   52.699422  123.052464   2.271425
 0.004788    2.284604  144.766975

COMB  DESIGN ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -68.711558  -98.032095  -2.177978
-0.004804   -1.370235  -26.008520
0.14087   -68.711558  -98.032095  -2.177978
-0.004804   -0.460736  -37.475871
0.28174   -68.711558  -98.032095  -2.177978
-0.004804   -0.475129  -71.977536
0.42261   -68.711558  -98.032095  -2.177978
-0.004804   -1.428498  -113.101267
0.56348   -68.711558  -98.032095  -2.177978
-0.004804   -2.381663  -164.046309

ELEM      224 ================== LENGTH
=     2.977323

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   17.286847   3.396382   0.624680
 0.001363    0.680278    5.265589
0.57748   17.286847   3.396382   0.624680
 0.001363    0.418356    4.207421
0.71832   17.286847   3.396382   0.624680
 0.001363    0.156520    3.168895
0.85916   17.286847   3.396382   0.624680
 0.001363    0.101806    2.188271
1.00000   17.286847   3.396382   0.624680
 0.001363    0.347751    1.466455

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -2.764710  -43.354220  -0.586552
-0.000491   -0.636094  -80.348885
0.57748   -2.764710  -43.354220  -0.586552
-0.000491   -0.390135  -62.210275
0.71832   -2.764710  -43.354220  -0.586552
-0.000491   -0.144159  -44.115087
0.85916   -2.764710  -43.354220  -0.586552
-0.000491   -0.105061  -26.322569
1.00000   -2.764710  -43.354220  -0.586552
-0.000491   -0.367533  -13.260139

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   16.853837  27.949868   0.980467
 0.005414    1.063882   47.545993
0.57748   16.853837  27.949868   0.980467
 0.005414    0.652750   37.205941
0.71832   16.853837  27.949868   0.980467
 0.005414    0.241848   35.850607
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2474

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.85916   16.853837  27.949868   0.980467
 0.005414    0.160394   55.006343
1.00000   16.853837  27.949868   0.980467
 0.005414    0.535165   81.224887

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -30.045203  -116.519395  -0.898524
-0.005665   -0.976830  -123.748368
0.57748   -30.045203  -116.519395  -0.898524
-0.005665   -0.600080   -79.760200
0.71832   -30.045203  -116.519395  -0.898524
-0.005665   -0.223320   -50.562988
0.85916   -30.045203  -116.519395  -0.898524
-0.005665   -0.188273   -29.411929
1.00000   -30.045203  -116.519395  -0.898524
-0.005665   -0.588156   -11.497481

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   15.388546  47.178787   1.102914
 0.004015    1.194574   77.015974
0.57748   15.388546  47.178787   1.102914
 0.004015    0.732097   57.772563
0.71832   15.388546  47.178787   1.102914
 0.004015    0.269754   45.189545
0.85916   15.388546  47.178787   1.102914
 0.004015    0.202433   51.414104
1.00000   15.388546  47.178787   1.102914
 0.004015    0.666951   63.781537

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -23.880951  -98.379895  -1.125633
-0.004565   -1.224472  -115.798925
0.57748   -23.880951  -98.379895  -1.125633
-0.004565   -0.752478   -77.041098
0.71832   -23.880951  -98.379895  -1.125633
-0.004565   -0.280459   -50.096227
0.85916   -23.880951  -98.379895  -1.125633
-0.004565   -0.205538   -27.426768
1.00000   -23.880951  -98.379895  -1.125633
-0.004565   -0.660391   -11.715649

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   27.611725  56.845811   1.089979
 0.003497    1.180689   93.717266
0.57748   27.611725  56.845811   1.089979
 0.003497    0.723636   70.549517
0.71832   27.611725  56.845811   1.089979
 0.003497    0.266689   53.093449
0.85916   27.611725  56.845811   1.089979
 0.003497    0.210739   51.308404
1.00000   27.611725  56.845811   1.089979
 0.003497    0.701153   55.448912

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -23.097012  -83.317783   -1.184247
-0.004233   -1.288032  -99.014555
0.57748   -23.097012  -83.317783   -1.184247
-0.004233   -0.791461  -66.815913
0.71832   -23.097012  -83.317783   -1.184247
-0.004233   -0.294867  -45.358462
0.85916   -23.097012  -83.317783   -1.184247
-0.004233   -0.200959  -30.342795
1.00000   -23.097012  -83.317783   -1.184247
-0.004233   -0.651726  -21.770485

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   0.168636   19.923523   0.365763
 0.003306   0.392310   38.887156
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2475

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.57748   0.168636   19.923523   0.365763
 0.003306   0.238970   31.869121
0.71832   0.168636   19.923523   0.365763
 0.003306   0.085606   34.090036
0.85916   0.168636   19.923523   0.365763
 0.003306   0.071555   53.300958
1.00000   0.168636   19.923523   0.365763
 0.003306   0.211231   77.027917

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -30.979538  -71.882086  -0.355192
-0.004570   -0.388618  -44.729844
0.57748   -30.979538  -71.882086  -0.355192
-0.004570   -0.239698  -18.972016
0.71832   -30.979538  -71.882086  -0.355192
-0.004570   -0.090848   -5.546963
0.85916   -30.979538  -71.882086  -0.355192
-0.004570   -0.083513   -1.027124
1.00000   -30.979538  -71.882086  -0.355192
-0.004570   -0.227417   -1.509859

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   11.995792  47.318431   0.572963
 0.003126   0.616130   79.856241
0.57748   11.995792  47.318431   0.572963
 0.003126   0.375875   60.833962
0.71832   11.995792  47.318431   0.572963
 0.003126   0.135752   49.678891
0.85916   11.995792  47.318431   0.572963
 0.003126   0.129824   59.651903
1.00000   11.995792  47.318431   0.572963
 0.003126   0.415249   72.516549

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -25.895130  -65.217340  -0.701101
-0.004850   -0.614615  -44.260555
0.57748   -25.895130  -65.217340  -0.701101
-0.004850   -0.470649  -20.625128
0.71832   -25.895130  -65.217340  -0.701101
-0.004850   -0.176686   -9.992479
0.85916   -25.895130  -65.217340  -0.701101
-0.004850   -0.119080   -6.811463
1.00000   -25.895130  -65.217340  -0.701101
-0.004850   -0.350661  -11.507166

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   17.333855  70.492959   0.963100
 0.002989    1.041766  128.877622
0.57748   17.333855  70.492959   0.963100
 0.002989    0.637913   99.950558
0.71832   17.333855  70.492959   0.963100
 0.002989    0.234114   76.897347
0.85916   17.333855  70.492959   0.963100
 0.002989    0.183302   69.867282
1.00000   17.333855  70.492959   0.963100
 0.002989    0.607788   65.499142

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -36.071781  -74.670417  -1.026642
-0.003944   -1.117016  -80.723549
0.57748   -36.071781  -74.670417  -1.026642
-0.003944   -0.686534  -52.165037
0.71832   -36.071781  -74.670417  -1.026642
-0.003944   -0.256037  -33.179044
0.85916   -36.071781  -74.670417  -1.026642
-0.003944   -0.179998  -20.222819
1.00000   -36.071781  -74.670417  -1.026642
-0.003944   -0.577731  -14.852389
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2476

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   18.707260  72.049689   0.987646
 0.002709    1.068882  133.808167
0.57748   18.707260  72.049689   0.987646
 0.002709    0.654736  104.096805
0.71832   18.707260  72.049689   0.987646
 0.002709    0.240639   79.202265
0.85916   18.707260  72.049689   0.987646
 0.002709    0.191030   67.832833
1.00000   18.707260  72.049689   0.987646
 0.002709    0.640886   58.612995

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -34.406728  -63.583228  -1.084709
-0.003730   -1.180847  -70.082147
0.57748   -34.406728  -63.583228  -1.084709
-0.003730   -0.726011  -45.720655
0.71832   -34.406728  -63.583228  -1.084709
-0.003730   -0.271127  -31.363190
0.85916   -34.406728  -63.583228  -1.084709
-0.003730   -0.182051  -21.948755
1.00000   -34.406728  -63.583228  -1.084709
-0.003730   -0.591126  -18.790691

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   2.691542   18.157174   0.293569
 0.000344   0.318518   38.179143
0.57748   2.691542   18.157174   0.293569
 0.000344   0.195414   30.606299
0.71832   2.691542   18.157174   0.293569
 0.000344   0.072309   23.058292
0.85916   2.691542   18.157174   0.293569
 0.000344   0.054663   15.571785
1.00000   2.691542   18.157174   0.293569
 0.000344   0.194530   8.273969

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -8.412945  -2.504377   -0.333266
-0.000666   -0.364470   -6.892419
0.57748   -8.412945  -2.504377   -0.333266
-0.000666   -0.224722   -6.579543
0.71832   -8.412945  -2.504377   -0.333266
-0.000666   -0.084960   -6.422495
0.85916   -8.412945  -2.504377   -0.333266
-0.000666   -0.050744   -6.550516
1.00000   -8.412945  -2.504377   -0.333266
-0.000666   -0.173900   -6.907748

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   24.207993  42.322933   0.479178
 0.000569    0.519569   75.633112
0.57748   24.207993  42.322933   0.479178
 0.000569    0.318638   58.341802
0.71832   24.207993  42.322933   0.479178
 0.000569    0.117680   41.493957
0.85916   24.207993  42.322933   0.479178
 0.000569    0.107854   25.799648
1.00000   24.207993  42.322933   0.479178
 0.000569    0.375536   12.363111

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -11.622840  -5.421510   -0.638932
-0.001351   -0.696336   -8.567174
0.57748   -11.622840  -5.421510   -0.638932
-0.001351   -0.428427   -8.365970
0.71832   -11.622840  -5.421510   -0.638932
-0.001351   -0.160501   -10.789929
0.85916   -11.622840  -5.421510   -0.638932
-0.001351   -0.083743   -16.526337
1.00000   -11.622840  -5.421510   -0.638932
-0.001351   -0.284413   -23.894813
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2477

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   11.886386  54.763367   0.703344
 0.000592    0.759089   97.282209
0.57748   11.886386  54.763367   0.703344
 0.000592    0.464155   74.595948
0.71832   11.886386  54.763367   0.703344
 0.000592    0.169183   53.427015
0.85916   11.886386  54.763367   0.703344
 0.000592    0.147784   38.463279
1.00000   11.886386  54.763367   0.703344
 0.000592    0.516368   26.092528

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -18.438562  -22.500970  -0.880095
-0.001805   -0.960237   -26.908313
0.57748   -18.438562  -22.500970  -0.880095
-0.001805   -0.591193   -19.523109
0.71832   -18.438562  -22.500970  -0.880095
-0.001805   -0.222130   -14.377988
0.85916   -18.438562  -22.500970  -0.880095
-0.001805   -0.126626   -12.169038
1.00000   -18.438562  -22.500970  -0.880095
-0.001805   -0.421024   -16.555730

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   12.301207  73.935694   0.922887
 0.002822    0.997852  141.950321
0.57748   12.301207  73.935694   0.922887
 0.002822    0.610861  111.518771
0.71832   12.301207  73.935694   0.922887
 0.002822    0.223924   86.664256
0.85916   12.301207  73.935694   0.922887
 0.002822    0.180281   76.773391
1.00000   12.301207  73.935694   0.922887
 0.002822    0.603102   69.291484

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -40.265195  -59.771170  -1.022415
-0.004164   -1.114567   -56.287354
0.57748   -40.265195  -59.771170  -1.022415
-0.004164   -0.685857   -35.280932
0.71832   -40.265195  -59.771170  -1.022415
-0.004164   -0.257160   -23.439983
0.85916   -40.265195  -59.771170  -1.022415
-0.004164   -0.173101   -17.028475
1.00000   -40.265195  -59.771170  -1.022415
-0.004164   -0.554153   -16.835911

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   38.058455  7.318223   0.974477
 0.001476    1.063662   10.145259
0.57748   38.058455  7.318223   0.974477
 0.001476    0.654935   8.036624
0.71832   38.058455  7.318223   0.974477
 0.001476    0.245932   5.952997
0.85916   38.058455  7.318223   0.974477
 0.001476    0.227378   3.956309
1.00000   38.058455  7.318223   0.974477
 0.001476    0.760809   2.131575

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -4.678841  -69.108101  -1.272044
-0.000457   -1.372638   -137.606530
0.57748   -4.678841  -69.108101  -1.272044
-0.000457   -0.839453   -108.969428
0.71832   -4.678841  -69.108101  -1.272044
-0.000457   -0.306142   -80.356070
0.85916   -4.678841  -69.108101  -1.272044
-0.000457   -0.161301   -51.936790
1.00000   -4.678841  -69.108101  -1.272044
-0.000457   -0.570377   -25.365810
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2478

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   34.955809  31.512531   1.708681
 0.005061    1.848520   59.529279
0.57748   34.955809  31.512531   1.708681
 0.005061    1.131840   47.559605
0.71832   34.955809  31.512531   1.708681
 0.005061    0.416672   35.590386
0.85916   34.955809  31.512531   1.708681
 0.005061    0.340490   63.980614
1.00000   34.955809  31.512531   1.708681
 0.005061    1.101232   87.214917

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -40.145851  -143.806708  -1.831973
-0.005744   -1.980847  -184.568309
0.57748   -40.145851  -143.806708  -1.831973
-0.005744   -1.212702  -125.199618
0.71832   -40.145851  -143.806708  -1.831973
-0.005744   -0.446775   -83.193470
0.85916   -40.145851  -143.806708  -1.831973
-0.005744   -0.316685   -51.284924
1.00000   -40.145851  -143.806708  -1.831973
-0.005744   -1.029465   -23.409414

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   33.216985  60.317325   1.918880
 0.003900    2.076338   109.681383
0.57748   33.216985  60.317325   1.918880
 0.003900    1.271302   85.154832
0.71832   33.216985  60.317325   1.918880
 0.003900    0.466523   67.675321
0.85916   33.216985  60.317325   1.918880
 0.003900    0.376955   66.610223
1.00000   33.216985  60.317325   1.918880
 0.003900    1.251050   71.297626

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -35.893736  -122.299745  -2.096921
-0.004688   -2.272452  -167.576630
0.57748   -35.893736  -122.299745  -2.096921
-0.004688   -1.393102  -116.985438
0.71832   -35.893736  -122.299745  -2.096921
-0.004688   -0.515296   -78.871231
0.85916   -35.893736  -122.299745  -2.096921
-0.004688   -0.346938   -47.654332
1.00000   -35.893736  -122.299745  -2.096921
-0.004688   -1.149626   -22.414883

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   42.852943  81.161644   1.905539
 0.003378    2.063575   138.795890
0.57748   42.852943  81.161644   1.905539
 0.003378    1.264186   105.793083
0.71832   42.852943  81.161644   1.905539
 0.003378    0.465091   79.292027
0.85916   42.852943  81.161644   1.905539
 0.003378    0.385045   67.497183
1.00000   42.852943  81.161644   1.905539
 0.003378    1.282626   62.273040

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -34.734575  -104.250497  -2.150689
-0.004334   -2.330159   -144.375171
0.57748   -34.734575  -104.250497  -2.150689
-0.004334   -1.428237   -101.654256
0.71832   -34.734575  -104.250497  -2.150689
-0.004334   -0.527660   -70.805454
0.85916   -34.734575  -104.250497  -2.150689
-0.004334   -0.341393   -47.027174
1.00000   -34.734575  -104.250497  -2.150689
-0.004334   -1.138750   -30.353488
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2479

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   0.148191   23.596233   0.728056
 0.002456    0.777346   52.460252
0.57748   0.148191   23.596233   0.728056
 0.002456    0.471966   43.842311
0.71832   0.148191   23.596233   0.728056
 0.002456    0.167822   42.752329
0.85916   0.148191   23.596233   0.728056
 0.002456    0.108338   56.766214
1.00000   0.148191   23.596233   0.728056
 0.002456    0.327985   74.073322

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -40.949929  -63.732426  -0.547772
-0.003933   -0.597424   -45.344646
0.57748   -40.949929  -63.732426  -0.547772
-0.003933   -0.367808   -19.438003
0.71832   -40.949929  -63.732426  -0.547772
-0.003933   -0.138753   -5.809006
0.85916   -40.949929  -63.732426  -0.547772
-0.003933   -0.149797   -0.930526
1.00000   -40.949929  -63.732426  -0.547772
-0.003933   -0.452436   -1.411199

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   12.517631  67.401591   1.083861
 0.002390    1.164646   120.598519
0.57748   12.517631  67.401591   1.083861
 0.002390    0.709916   93.390625
0.71832   12.517631  67.401591   1.083861
 0.002390    0.255924   73.336863
0.85916   12.517631  67.401591   1.083861
 0.002390    0.194315   69.838156
1.00000   12.517631  67.401591   1.083861
 0.002390    0.640015   70.744726

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -35.503228  -58.276832  -1.074393
-0.004302   -1.168154   -44.357723
0.57748   -35.503228  -58.276832  -1.074393
-0.004302   -0.717536   -20.966588
0.71832   -35.503228  -58.276832  -1.074393
-0.004302   -0.268326   -10.003320
0.85916   -35.503228  -58.276832  -1.074393
-0.004302   -0.208402   -6.626088
1.00000   -35.503228  -58.276832  -1.074393
-0.004302   -0.660585   -11.053470

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   22.394074  86.475049   1.763026
 0.002372    1.903531   161.236791
0.57748   22.394074  86.475049   1.763026
 0.002372    1.163952   125.818507
0.71832   22.394074  86.475049   1.763026
 0.002372    0.424502   95.322129
0.85916   22.394074  86.475049   1.763026
 0.002372    0.320431   76.533238
1.00000   22.394074  86.475049   1.763026
 0.002372    1.081056   62.255467

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -43.972368  -79.584159  -1.821500
-0.003305   -1.978099   -102.091368
0.57748   -43.972368  -79.584159  -1.821500
-0.003305   -1.214267   -69.612806
0.71832   -43.972368  -79.584159  -1.821500
-0.003305   -0.451302   -45.504621
0.85916   -43.972368  -79.584159  -1.821500
```

```
-0.003305   -0.319264   -26.916742
 1.00000   -43.972368   -79.584159     -1.821500
-0.003305   -1.057782   -16.062844
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2480

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    24.202521    94.985086     1.818630
 0.002165    1.965869   174.985268
0.57748    24.202521    94.985086     1.818630
 0.002165    1.202947   136.253973
0.71832    24.202521    94.985086     1.818630
 0.002165    0.440118   101.862978
0.85916    24.202521    94.985086     1.818630
 0.002165    0.329473    77.438935
 1.00000    24.202521    94.985086     1.818630
 0.002165    1.119216    57.022461

COMB DL-G2-4 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -43.874377   -69.195914     -1.889086
-0.003203   -2.053082   -91.066540
0.57748   -43.874377   -69.195914     -1.889086
-0.003203   -1.260996   -63.428339
0.71832   -43.874377   -69.195914     -1.889086
-0.003203   -0.469292   -43.572960
0.85916   -43.874377   -69.195914     -1.889086
-0.003203   -0.325948   -28.411932
 1.00000   -43.874377   -69.195914     -1.889086
-0.003203   -1.088025   -19.780037

COMB DL-G3-1 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    4.423659    27.671623     0.585843
 0.000300    0.634912    56.187524
0.57748    4.423659    27.671623     0.585843
 0.000300    0.389181    44.758021
0.71832    4.423659    27.671623     0.585843
 0.000300    0.143522    33.417129
0.85916    4.423659    27.671623     0.585843
 0.000300    0.087732    22.287217
 1.00000    4.423659    27.671623     0.585843
 0.000300    0.314154    11.605526

COMB DL-G3-1 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -17.185020    -5.512830     -0.538216
-0.000671   -0.589473   -13.333699
0.57748   -17.185020    -5.512830     -0.538216
-0.000671   -0.363467   -11.460745
0.71832   -17.185020    -5.512830     -0.538216
-0.000671   -0.137367    -9.723017
0.85916   -17.185020    -5.512830     -0.538216
-0.000671   -0.101804    -8.245530
 1.00000   -17.185020    -5.512830     -0.538216
-0.000671   -0.347838    -7.264113

COMB DL-G3-2 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    27.282001    70.243694     0.935659
 0.000463    1.015078   119.012123
0.57748    27.282001    70.243694     0.935659
 0.000463    0.622789    90.365664
0.71832    27.282001    70.243694     0.935659
 0.000463    0.230199    62.540168
0.85916    27.282001    70.243694     0.935659
 0.000463    0.180604    37.069460
 1.00000    27.282001    70.243694     0.935659
 0.000463    0.623219    15.391573

COMB DL-G3-2 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -20.453304    -8.294603     -1.054356
-0.001295   -1.146065   -17.782486
0.57748   -20.453304    -8.294603     -1.054356
-0.001295   -0.704034   -15.831654
0.71832   -20.453304    -8.294603     -1.054356
-0.001295   -0.261524   -15.232599
0.85916   -20.453304    -8.294603     -1.054356
-0.001295   -0.151947   -14.633551
 1.00000   -20.453304    -8.294603     -1.054356
-0.001295   -0.554419   -24.443090
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2481

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    16.234227    83.107873     1.321979
 0.000347    1.428811   150.849595
0.57748    16.234227    83.107873     1.321979
 0.000347    0.874322   116.766490
0.71832    16.234227    83.107873     1.321979
 0.000347    0.318975    83.743368
0.85916    16.234227    83.107873     1.321979
 0.000347    0.224805    53.978441
 1.00000    16.234227    83.107873     1.321979
 0.000347    0.791115    28.673450

COMB DL-G3-3 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -32.658953   -20.448429     -1.348923
-0.001473   -1.471931   -31.269888
0.57748   -32.658953   -20.448429     -1.348923
-0.001473   -0.906088   -24.226356
0.71832   -32.658953   -20.448429     -1.348923
-0.001473   -0.340007   -17.982617
0.85916   -32.658953   -20.448429     -1.348923
-0.001473   -0.232276   -13.745747
 1.00000   -32.658953   -20.448429     -1.348923
-0.001473   -0.787568   -17.104549

COMB DL-G3-4 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    17.294230    96.543353     1.767542
 0.002035    1.907379   185.240973
0.57748    17.294230    96.543353     1.767542
 0.002035    1.166077   145.783356
0.71832    17.294230    96.543353     1.767542
 0.002035    0.424676   110.992541
0.85916    17.294230    96.543353     1.767542
 0.002035    0.297068    86.783249
 1.00000    17.294230    96.543353     1.767542
 0.002035    1.016014    66.981389

COMB DL-G3-4 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -53.917005   -58.860818     -1.719956
-0.003401   -1.873015   -69.151716
0.57748   -53.917005   -58.860818     -1.719956
-0.003401   -1.151647   -46.113601
0.71832   -53.917005   -58.860818     -1.719956
-0.003401   -0.431004   -30.615922
0.85916   -53.917005   -58.860818     -1.719956
-0.003401   -0.320861   -20.337827
 1.00000   -53.917005   -58.860818     -1.719956
-0.003401   -1.061266   -17.432354

COMB     DB -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    27.611725    73.935694     1.102914
 0.005414    1.194574   141.950321
0.57748    27.611725    73.935694     1.102914
 0.005414    0.732097   111.518771
0.71832    27.611725    73.935694     1.102914
 0.005414    0.269754    86.664256
0.85916    27.611725    73.935694     1.102914
 0.005414    0.210739    76.908391
 1.00000    27.611725    73.935694     1.102914
 0.005414    0.701153    81.224887

COMB     DB -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -40.265195   -116.519395     -1.184247
-0.005665   -1.288032   -123.748368
0.57748   -40.265195   -116.519395     -1.184247
-0.005665   -0.791461   -79.760200
0.71832   -40.265195   -116.519395     -1.184247
-0.005665   -0.294867   -50.562988
0.85916   -40.265195   -116.519395     -1.184247
-0.005665   -0.205538   -30.342795
 1.00000   -40.265195   -116.519395     -1.184247
-0.005665   -0.560391   -13.894813
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2482

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     DL -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    42.852943    96.543353     1.918880
 0.005061    2.076338   185.240973
0.57748    42.852943    96.543353     1.918880
 0.005061    1.271302   145.783356
0.71832    42.852943    96.543353     1.918880
 0.005061    0.466523   110.992541
0.85916    42.852943    96.543353     1.918880
 0.005061    0.385045    86.783249
 1.00000    42.852943    96.543353     1.918880
 0.005061    1.282626    87.214917

COMB     DL -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -53.917005   -143.806708     -2.150689
-0.005744   -2.330159   -184.568309
0.57748   -53.917005   -143.806708     -2.150689
-0.005744   -1.428237   -125.199618
0.71832   -53.917005   -143.806708     -2.150689
-0.005744   -0.527660   -83.193470
0.85916   -53.917005   -143.806708     -2.150689
-0.005744   -0.346938   -51.936790
 1.00000   -53.917005   -143.806708     -2.150689
-0.005744   -1.149626   -30.353488

COMB     CAR -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    42.852943    96.543353     1.918880
 0.005414    2.076338   185.240973
0.57748    42.852943    96.543353     1.918880
 0.005414    1.271302   145.783356
0.71832    42.852943    96.543353     1.918880
 0.005414    0.466523   110.992541
0.85916    42.852943    96.543353     1.918880
 0.005414    0.385045    86.783249
 1.00000    42.852943    96.543353     1.918880
 0.005414    1.282626    87.214917

COMB     CAR -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -53.917005   -143.806708     -2.150689
-0.005744   -2.330159   -184.568309
0.57748   -53.917005   -143.806708     -2.150689
-0.005744   -1.428237   -125.199618
0.71832   -53.917005   -143.806708     -2.150689
-0.005744   -0.527660   -83.193470
0.85916   -53.917005   -143.806708     -2.150689
-0.005744   -0.346938   -51.936790
 1.00000   -53.917005   -143.806708     -2.150689
-0.005744   -1.149626   -30.353488

COMB  DESIGN -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.43663    42.852943    96.543353     1.918880
 0.005414    2.076338   185.240973
0.57748    42.852943    96.543353     1.918880
 0.005414    1.271302   145.783356
0.71832    42.852943    96.543353     1.918880
 0.005414    0.466523   110.992541
0.85916    42.852943    96.543353     1.918880
 0.005414    0.385045    86.783249
 1.00000    42.852943    96.543353     1.918880
 0.005414    1.282626    87.214917

COMB  DESIGN -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.43663   -53.917005   -143.806708     -2.150689
-0.005744   -2.330159   -184.568309
0.57748   -53.917005   -143.806708     -2.150689
-0.005744   -1.428237   -125.199618
0.71832   -53.917005   -143.806708     -2.150689
-0.005744   -0.527660   -83.193470
0.85916   -53.917005   -143.806708     -2.150689
-0.005744   -0.346938   -51.936790
 1.00000   -53.917005   -143.806708     -2.150689
-0.005744   -1.149626   -30.353488
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2483

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      225 ================== LENGTH
=    2.977383

COMB DB-G1-1 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    17.189759     3.424654     0.699723
 0.001287    0.422080     1.463331
0.14084    17.189759     3.424654     0.699723
 0.001287    0.128747    10.861075
0.28169    17.189759     3.424654     0.699723
 0.001287    0.169233    28.725768
0.42253    17.189759     3.424654     0.699723
 0.001287    0.401556    46.734994
0.56337    17.189759     3.424654     0.699723
 0.001287    0.656762    64.784266

COMB DB-G1-1 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -2.652248   -43.085558     -0.608606
-0.000582   -0.364116   -13.260161
0.14084   -2.652248   -43.085558     -0.608606
-0.000582   -0.108901   -14.042810
0.28169   -2.652248   -43.085558     -0.608606
-0.000582   -0.164767   -14.994182
0.42253   -2.652248   -43.085558     -0.608606
-0.000582   -0.458228   -15.969408
0.56337   -2.652248   -43.085558     -0.608606
-0.000582   -0.751653   -17.315243

COMB DB-G1-2 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    16.711573    86.572600     1.040000
 0.006583    0.624410    81.434411
0.14084    16.711573    86.572600     1.040000
 0.006583    0.188306    67.644211
0.28169    16.711573    86.572600     1.040000
 0.006583    0.230891    61.864301
0.42253    16.711573    86.572600     1.040000
 0.006583    0.637121    80.428351
0.56337    16.711573    86.572600     1.040000
 0.006583    1.043398   105.112068

COMB DB-G1-2 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -33.880659   -62.727270     -0.985452
-0.004529   -0.617914   -11.514827
0.14084   -33.880659   -62.727270     -0.985452
-0.004529   -0.206063   -13.128944
0.28169   -33.880659   -62.727270     -0.985452
-0.004529   -0.248041   -20.195728
0.42253   -33.880659   -62.727270     -0.985452
-0.004529   -0.684182   -41.091714
0.56337   -33.880659   -62.727270     -0.985452
-0.004529   -1.120237   -77.078836

COMB DB-G1-3 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    15.281109    86.949229     1.124255
 0.004780    0.671745    63.929385
0.14084    15.281109    86.949229     1.124255
 0.004780    0.200225    57.504924
0.28169    15.281109    86.949229     1.124255
 0.004780    0.290312    60.832465
0.42253    15.281109    86.949229     1.124255
 0.004780    0.799833    81.374409
0.56337    15.281109    86.949229     1.124255
 0.004780    1.309351   106.193020

COMB DB-G1-3 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -26.536018   -61.908331     -1.226329
-0.003464   -0.753331   -11.718084
0.14084   -26.536018   -61.908331     -1.226329
-0.003464   -0.239667   -23.140584
0.28169   -26.536018   -61.908331     -1.226329
-0.003464   -0.271252   -39.616324
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2484

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P              V2              V3
        T           M2              M3
0.42253   -26.536018   -61.908331     -1.226329
-0.003464   -0.742776   -65.522786
0.56337   -26.536018   -61.908331     -1.226329
-0.003464   -1.214156   -101.743822

COMB DB-G1-4 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    27.511894    90.129629     1.115721
 0.004196    0.666902    55.576443
0.14084    27.511894    90.129629     1.115721
 0.004196    0.198967    48.249768
0.28169    27.511894    90.129629     1.115721
 0.004196    0.304022    51.711832
0.42253    27.511894    90.129629     1.115721
 0.004196    0.836233    69.557187
0.56337    27.511894    90.129629     1.115721
 0.004196    1.368446    90.860196

COMB DB-G1-4 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -25.310628   -53.050065     -1.278541
-0.003473   -0.706811   -21.177548
0.14084   -25.310628   -53.050065     -1.278541
-0.003473   -0.245456   -36.152265
0.28169   -25.310628   -53.050065     -1.278541
-0.003473   -0.268906   -54.765209
0.42253   -25.310628   -53.050065     -1.278541
-0.003473   -0.736833   -81.402436
0.56337   -25.310628   -53.050065     -1.278541
-0.003473   -1.204668   -117.869453

COMB DB-G2-1 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    0.157397    69.131927     0.319197
 0.004207    0.187774    77.204426
0.14084    0.157397    69.131927     0.319197
 0.004207    0.053995    61.953482
0.28169    0.157397    69.131927     0.319197
 0.004207    0.098276    46.911632
0.42253    0.157397    69.131927     0.319197
 0.004207    0.142558    51.776882
0.56337    0.157397    69.131927     0.319197
 0.004207    0.450401    62.047981

COMB DB-G2-1 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -34.315580   -27.376077     -0.433911
-0.003219   -0.284415   -1.535599
0.14084   -34.315580   -27.376077     -0.433911
-0.003219   -0.103593   -3.226527
0.28169   -34.315580   -27.376077     -0.433911
-0.003219   -0.080051   -7.223600
0.42253   -34.315580   -27.376077     -0.433911
-0.003219   -0.213918   -24.151285
0.56337   -34.315580   -27.376077     -0.433911
-0.003219   -0.347772   -52.963079

COMB DB-G2-2 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    12.005617    93.524682     0.513647
 0.003986    0.302406    72.691946
0.14084    12.005617    93.524682     0.513647
 0.003986    0.086980    53.561675
0.28169    12.005617    93.524682     0.513647
 0.003986    0.185320    38.165707
0.42253    12.005617    93.524682     0.513647
 0.003986    0.511487    42.158265
0.56337    12.005617    93.524682     0.513647
 0.003986    0.837690    50.866531

COMB DB-G2-2 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -29.075320   -23.687301     -0.790832
-0.003514   -0.495341   -11.526406
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2485

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P              V2              V3
        T           M2              M3
0.14084   -29.075320   -23.687301     -0.790832
-0.003514   -0.164735   -25.404579
0.28169   -29.075320   -23.687301     -0.790832
-0.003514   -0.128407   -41.306900
0.42253   -29.075320   -23.687301     -0.790832
-0.003514   -0.343827   -68.160662
0.56337   -29.075320   -23.687301     -0.790832
-0.003514   -0.559222   -107.077866

COMB DB-G2-3 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    17.201970    102.629370     0.957170
 0.003851    0.570112    65.621441
0.14084    17.201970    102.629370     0.957170
 0.003851    0.168680    50.933913
0.28169    17.201970    102.629370     0.957170
 0.003851    0.264882    50.904867
0.42253    17.201970    102.629370     0.957170
 0.003851    0.729192    65.435543
0.56337    17.201970    102.629370     0.957170
 0.003851    1.193513    83.433356

COMB DB-G2-3 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -38.305397   -45.338397     -1.116418
-0.003022   -0.683772   -14.853059
0.14084   -38.305397   -45.338397     -1.116418
-0.003022   -0.216328   -24.598423
0.28169   -38.305397   -45.338397     -1.116418
-0.003022   -0.232588   -50.657195
0.42253   -38.305397   -45.338397     -1.116418
-0.003022   -0.634077   -84.757625
0.56337   -38.305397   -45.338397     -1.116418
-0.003022   -1.035462   -127.455667

COMB DB-G2-4 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    18.628466    98.931222     0.992453
 0.003510    0.591916    58.719796
0.14084    18.628466    98.931222     0.992453
 0.003510    0.175678    42.428271
0.28169    18.628466    98.931222     0.992453
 0.003510    0.280944    42.751770
0.42253    18.628466    98.931222     0.992453
 0.003510    0.773598    55.347584
0.56337    18.628466    98.931222     0.992453
 0.003510    1.266249    70.848077

COMB DB-G2-4 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -36.290995   -38.996483     -1.182484
-0.003136   -0.721092   -18.791180
0.14084   -36.290995   -38.996483     -1.182484
-0.003136   -0.225807   -28.078365
0.28169   -36.290995   -38.996483     -1.182484
-0.003136   -0.240397   -51.491593
0.42253   -36.290995   -38.996483     -1.182484
-0.003136   -0.656654   -82.617589
0.56337   -36.290995   -38.996483     -1.182484
-0.003136   -1.072835   -123.821968

COMB DB-G3-1 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    2.642795    18.203185     0.309865
 0.000505    0.185936    8.279676
0.14084    2.642795    18.203185     0.309865
 0.000505    0.056012    4.232182
0.28169    2.642795    18.203185     0.309865
 0.000505    0.090334    3.586359
0.42253    2.642795    18.203185     0.309865
 0.000505    0.250558    3.725707
0.56337    2.642795    18.203185     0.309865
 0.000505    0.410783    4.125569
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    2486

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -8.440189    -2.430408     -0.382101
-0.000959   -0.230157    -6.907745
0.14084   -8.440189    -2.430408     -0.382101
-0.000959   -0.069828    -7.567613
0.28169   -8.440189    -2.430408     -0.382101
-0.000959   -0.071375    -8.137353
0.42253   -8.440189    -2.430408     -0.382101
-0.000959   -0.203919   -15.369843
0.56337   -8.440189    -2.430408     -0.382101
-0.000959   -0.333861   -22.991439

COMB DB-G3-2 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    24.139513    44.792909     0.501734
 0.000790    0.300840    12.381319
0.14084    24.139513    44.792909     0.501734
 0.000790    0.090545    3.526291
0.28169    24.139513    44.792909     0.501734
 0.000790    0.166343    2.323260
0.42253    24.139513    44.792909     0.501734
 0.000790    0.457607    3.615356
0.56337    24.139513    44.792909     0.501734
 0.000790    0.748892    5.102445

COMB DB-G3-2 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -11.791143    -3.665380     -0.695178
-0.001774   -0.417466   -23.893974
0.14084   -11.791143    -3.665380     -0.695178
-0.001774   -0.125878   -32.497958
0.28169   -11.791143    -3.665380     -0.695178
-0.001774   -0.120044   -41.610685
0.42253   -11.791143    -3.665380     -0.695178
-0.001774   -0.330458   -57.885679
0.56337   -11.791143    -3.665380     -0.695178
-0.001774   -0.540857   -76.496678

COMB DB-G3-3 -------------------- MAX

REL DIST            P              V2              V3
        T           M2              M3
0.00000    11.812124    57.951124     0.672700
 0.000810    0.399025    26.111114
0.14084    11.812124    57.951124     0.672700
 0.000810    0.116825    21.927733
0.28169    11.812124    57.951124     0.672700
 0.000810    0.232937    26.885760
0.42253    11.812124    57.951124     0.672700
 0.000810    0.642749    34.885547
0.56337    11.812124    57.951124     0.672700
 0.000810    1.052561    43.195561

COMB DB-G3-3 -------------------- MIN

REL DIST            P              V2              V3
        T           M2              M3
0.00000   -18.741687   -20.117053     -0.978132
-0.001633   -0.588624   -16.550164
0.14084   -18.741687   -20.117053     -0.978132
-0.001633   -0.178421   -30.902586
0.28169   -18.741687   -20.117053     -0.978132
-0.001633   -0.165068   -45.991953
0.42253   -18.741687   -20.117053     -0.978132
```

```
-0.001633   -0.447260   -67.717774
0.56337   -18.741687   -20.117053   -0.978132
-0.001633   -0.729354   -91.872031

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    12.190502   105.774025    0.912536
0.003765    0.543381    69.417136
0.14084    12.190502   105.774025    0.912536
0.003765    0.160599    45.100954
0.28169    12.190502   105.774025    0.912536
0.003765    0.267917    38.180644
0.42253    12.190502   105.774025    0.912536
0.003765    0.739280    46.633567
0.56337    12.190502   105.774025    0.912536
0.003765    1.210661    58.546738
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2487

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -42.493043   -30.719157   -1.133155
-0.003538   -0.694635   -16.842989
0.14084   -42.493043   -30.719157   -1.133155
-0.003538   -0.220089   -25.882220
0.28169   -42.493043   -30.719157   -1.133155
-0.003538   -0.221903   -46.263597
0.42253   -42.493043   -30.719157   -1.133155
-0.003538   -0.604656   -80.759713
0.56337   -42.493043   -30.719157   -1.133155
-0.003538   -0.987324   -124.904711

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    37.920818    7.207513    1.122393
0.001419    0.678551    2.124387
0.14084    37.920818    7.207513    1.122393
0.001419    0.207452    11.750363
0.28169    37.920818    7.207513    1.122393
0.001419    0.294505    38.796946
0.42253    37.920818    7.207513    1.122393
0.001419    0.792496    67.081154
0.56337    37.920818    7.207513    1.122393
0.001419    1.290617    95.576625

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -4.533913   -68.522099   -1.187905
-0.000621   -0.701992   -25.345096
0.14084    -4.533913   -68.522099   -1.187905
-0.000621   -0.263847   -12.265021
0.28169    -4.533913   -68.522099   -1.187905
-0.000621   -0.261790   -13.686371
0.42253    -4.533913   -68.522099   -1.187905
-0.000621   -0.732882   -16.271273
0.56337    -4.533913   -68.522099   -1.187905
-0.000621   -1.203675   -19.053521

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    34.778772    91.072860    1.750351
0.007014    1.048975    87.255086
0.14084    34.778772    91.072860    1.750351
0.007014    0.314844    70.745116
0.28169    34.778772    91.072860    1.750351
0.007014    0.447335    73.709876
0.42253    34.778772    91.072860    1.750351
0.007014    1.225690   101.248893
0.56337    34.778772    91.072860    1.750351
0.007014    2.004854   136.571668

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -42.702603   -87.316187   -1.873120
-0.004255   -1.146231   -23.400057
0.14084   -42.702603   -87.316187   -1.873120
-0.004255   -0.362970   -11.467675
0.28169   -42.702603   -87.316187   -1.873120
-0.004255   -0.419152   -18.299985
0.42253   -42.702603   -87.316187   -1.873120
-0.004255   -0.475334   -42.917697
0.56337   -42.702603   -87.316187   -1.873120
-0.004255   -1.887524   -80.032108

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    33.070101   102.571689    1.947604
0.005270    1.163476    71.340093
0.14084    33.070101   102.571689    1.947604
0.005270    0.346010    59.546787
0.28169    33.070101   102.571689    1.947604
0.005270    0.519882    67.826444
0.42253    33.070101   102.571689    1.947604
0.005270    1.423387    95.533762
0.56337    33.070101   102.571689    1.947604
0.005270    2.327396   128.983547
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2488

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -37.720621   -82.271434   -2.166378
-0.003380   -1.312593   -22.403151
0.14084   -37.720621   -82.271434   -2.166378
-0.003380   -0.405517   -22.889001
0.28169   -37.720621   -82.271434   -2.166378
-0.003380   -0.467752   -41.583300
0.42253   -37.720621   -82.271434   -2.166378
-0.003380   -1.285605   -74.775857
0.56337   -37.720621   -82.271434   -2.166378
-0.003380   -2.102648   -117.002508

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    42.691333   116.539526    1.965167
0.004575    1.176247    62.315446
0.14084    42.691333   116.539526    1.965167
0.004575    0.351598    49.905335
0.28169    42.691333   116.539526    1.965167
0.004575    0.530993    57.901495
0.42253    42.691333   116.539526    1.965167
0.004575    1.452312    82.026681
0.56337    42.691333   116.539526    1.965167
0.004575    2.374110   110.910510

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -36.238075   -71.032209   -2.207009
-0.003416   -1.333113   -30.343440
0.14084   -36.238075   -71.032209   -2.207009
-0.003416   -0.408849   -40.414988
0.28169   -36.238075   -71.032209   -2.207009
-0.003416   -0.470083   -68.415487
0.42253   -36.238075   -71.032209   -2.207009
-0.003416   -1.295003   -108.474761
0.56337   -36.238075   -71.032209   -2.207009
-0.003416   -2.119489   -156.040093

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.130485   65.475776    0.603564
0.003770    0.354148   74.110633
0.14084    0.130485   65.475776    0.603564
0.003770    0.101166   58.678078
0.28169    0.130485   65.475776    0.603564
0.003770    0.154579   44.989909
0.42253    0.130485   65.475776    0.603564
0.003770    0.438280   48.296496
0.56337    0.130485   65.475776    0.603564
0.003770    0.722547   57.734002

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -42.864145   -25.017073   -0.688515
-0.002482   -0.438862   -1.423987
0.14084   -42.864145   -25.017073   -0.688515
-0.002482   -0.151622   -3.049720
0.28169   -42.864145   -25.017073   -0.688515
-0.002482   -0.152624   -7.857909
0.42253   -42.864145   -25.017073   -0.688515
-0.002482   -0.405606   -24.968642
0.56337   -42.864145   -25.017073   -0.688515
-0.002482   -0.658768   -51.519010

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    12.500845   107.831072    0.994534
0.003652    0.588335    70.798687
0.14084    12.500845   107.831072    0.994534
0.003652    0.170970    50.063940
0.28169    12.500845   107.831072    0.994534
0.003652    0.281748    34.284666
0.42253    12.500845   107.831072    0.994534
0.003652    0.782000    36.659814
0.56337    12.500845   107.831072    0.994534
0.003652    1.282821    44.655362
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2489

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -37.363244   -21.167797   -1.204058
-0.002859   -0.742934   -11.067297
0.14084   -37.363244   -21.167797   -1.204058
-0.002859   -0.239329   -29.187881
0.28169   -37.363244   -21.167797   -1.204058
-0.002859   -0.244683   -51.465488
0.42253   -37.363244   -21.167797   -1.204058
-0.002859   -0.662172   -87.402782
0.56337   -37.363244   -21.167797   -1.204058
-0.002859   -1.079454   -131.866315

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    22.235199   112.054613    1.723194
0.003467    1.025581    62.288968
0.14084    22.235199   112.054613    1.723194
0.003467    0.302241    49.759913
0.28169    22.235199   112.054613    1.723194
0.003467    0.461908    55.333275
0.42253    22.235199   112.054613    1.723194
0.003467    1.270276    73.992280
0.56337    22.235199   112.054613    1.723194
0.003467    2.078967    96.523644

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -45.118278   -55.456756   -1.934972
-0.002421   -1.170689   -16.052182
0.14084   -45.118278   -55.456756   -1.934972
-0.002421   -0.360396   -28.210892
0.28169   -45.118278   -55.456756   -1.934972
-0.002421   -0.417900   -58.898689
0.42253   -45.118278   -55.456756   -1.934972
-0.002421   -1.141251   -99.586525
0.56337   -45.118278   -55.456756   -1.934972
-0.002421   -1.864144   -145.992458

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    24.057185   116.493264    1.808030
0.003175    1.077708    57.057919
0.14084    24.057185   116.493264    1.808030
0.003175    0.318768    41.554021
0.28169    24.057185   116.493264    1.808030
0.003175    0.482228    47.247228
0.42253    24.057185   116.493264    1.808030
0.003175    1.327565    63.848327
0.56337    24.057185   116.493264    1.808030
0.003175    2.172835    83.760557

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -44.827739   -48.921583   -2.021372
-0.002664   -1.221510   -19.774629
0.14084   -44.827739   -48.921583   -2.021372
-0.002664   -0.374396   -33.435703
0.28169   -44.827739   -48.921583   -2.021372
-0.002664   -0.436982   -67.061321
0.42253   -44.827739   -48.921583   -2.021372
-0.002664   -1.195945   -109.413405
0.56337   -44.827739   -48.921583   -2.021372
-0.002664   -1.954410   -157.755159

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    4.342552   27.672169    0.599523
0.000510    0.358272   11.615214
0.14084    4.342552   27.672169    0.599523
0.000510    0.106449    4.170217
0.28169    4.342552   27.672169    0.599523
0.000510    0.148017    4.772875
0.42253    4.342552   27.672169    0.599523
0.000510    0.413966    6.628126
0.56337    4.342552   27.672169    0.599523
0.000510    0.679754    8.676188
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2490

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -17.157830   -5.477334   -0.633044
-0.001005   -0.383132   -7.268386
0.14084   -17.157830   -5.477334   -0.633044
-0.001005   -0.117179   -8.207117
0.28169   -17.157830   -5.477334   -0.633044
-0.001005   -0.144446   -16.008802
0.42253   -17.157830   -5.477334   -0.633044
-0.001005   -0.396026   -27.047235
0.56337   -17.157830   -5.477334   -0.633044
-0.001005   -0.647501   -38.490232

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    27.168168   71.984887    0.993757
0.000702    0.597029   15.411532
0.14084    27.168168   71.984887    0.993757
0.000702    0.179981    3.467088
0.28169    27.168168   71.984887    0.993757
0.000702    0.268939    4.247750
0.42253    27.168168   71.984887    0.993757
0.000702    0.741206    6.850564
0.56337    27.168168   71.984887    0.993757
0.000702    1.213239    9.770882

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -20.480847   -7.132091   -1.125426
-0.001748   -0.675881   -24.446064
0.14084   -20.480847   -7.132091   -1.125426
-0.001748   -0.203669   -39.874373
0.28169   -20.480847   -7.132091   -1.125426
-0.001748   -0.236266   -65.759595
0.42253   -20.480847   -7.132091   -1.125426
-0.001748   -0.653200   -95.080756
0.56337   -20.480847   -7.132091   -1.125426
-0.001748   -1.069906   -125.170742

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    16.121596   83.388879    1.302866
0.000529    0.774906   28.703479
0.14084    16.121596   83.388879    1.302866
0.000529    0.227344   20.294266
0.28169    16.121596   83.388879    1.302866
0.000529    0.357740   24.958972
0.42253    16.121596   83.388879    1.302866
0.000529    0.990186   33.067309
0.56337    16.121596   83.388879    1.302866
0.000529    1.622644   41.546390

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -32.667360   -20.885108   -1.507030
-0.001471   -0.906217   -17.107969
0.14084   -32.667360   -20.885108   -1.507030
-0.001471   -0.273696   -36.115919
0.28169   -32.667360   -20.885108   -1.507030
-0.001471   -0.315821   -65.287358
0.42253   -32.667360   -20.885108   -1.507030
-0.001471   -0.863261   -99.164428
0.56337   -32.667360   -20.885108   -1.507030
-0.001471   -1.409729   -133.844942

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    17.132700   119.865907    1.711654
0.003176    1.018057    67.022416
0.14084    17.132700   119.865907    1.711654
0.003176    0.299383    44.540317
0.28169    17.132700   119.865907    1.711654
0.003176    0.450338    42.338168
0.42253    17.132700   119.865907    1.711654
0.003176    1.247688    53.628290
0.56337    17.132700   119.865907    1.711654
0.003176    2.045473    68.401966
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2491

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -54.969665   -37.004062   -1.907461
-0.002871   -1.156582   -17.434996
0.14084   -54.969665   -37.004062   -1.907461
-0.002871   -0.359220   -30.355091
0.28169   -54.969665   -37.004062   -1.907461
-0.002871   -0.416340   -62.429567
0.42253   -54.969665   -37.004062   -1.907461
-0.002871   -1.141264   -104.504516
0.56337   -54.969665   -37.004062   -1.907461
-0.002871   -1.852750   -156.089993

COMB DB ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    27.511894   105.774025    1.124255
0.006583    0.671745    81.434411
0.14084    27.511894   105.774025    1.124255
0.006583    0.200225    67.644211
0.28169    27.511894   105.774025    1.124255
0.006583    0.304022    61.864301
0.42253    27.511894   105.774025    1.124255
0.006583    0.836233    81.374409
0.56337    27.511894   105.774025    1.124255
0.006583    1.368446   106.193020

COMB DB ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -42.493043   -62.727270   -1.278541
-0.004529   -0.780911   -23.893974
0.14084   -42.493043   -62.727270   -1.278541
-0.004529   -0.245456   -36.152265
0.28169   -42.493043   -62.727270   -1.278541
-0.004529   -0.271252   -54.765209
0.42253   -42.493043   -62.727270   -1.278541
-0.004529   -0.742776   -84.757625
0.56337   -42.493043   -62.727270   -1.278541
-0.004529   -1.214156   -127.455667

COMB DL ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    42.691333   119.865907    1.965167
0.007014    1.176247    87.255086
0.14084    42.691333   119.865907    1.965167
0.007014    0.351598    70.745116
0.28169    42.691333   119.865907    1.965167
0.007014    0.530993    73.709876
0.42253    42.691333   119.865907    1.965167
0.007014    1.452312   101.248893
0.56337    42.691333   119.865907    1.965167
0.007014    2.374110   136.571668

COMB DL ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -54.969665   -87.316187   -2.207009
-0.004255   -1.333113   -30.343440
0.14084   -54.969665   -87.316187   -2.207009
-0.004255   -0.408849   -40.414988
0.28169   -54.969665   -87.316187   -2.207009
-0.004255   -0.470083   -68.415487
0.42253   -54.969665   -87.316187   -2.207009
-0.004255   -1.295003   -109.413405
0.56337   -54.969665   -87.316187   -2.207009
-0.004255   -2.119489   -157.755159

COMB CAR ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    42.691333   119.865907    1.965167
0.007014    1.176247    87.255086
0.14084    42.691333   119.865907    1.965167
0.007014    0.351598    70.745116
0.28169    42.691333   119.865907    1.965167
0.007014    0.530993    73.709876
0.42253    42.691333   119.865907    1.965167
0.007014    1.452312   101.248893
0.56337    42.691333   119.865907    1.965167
0.007014    2.374110   136.571668
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2492

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB CAR ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -54.969665   -87.316187   -2.207009
-0.004529   -1.333113   -30.343440
0.14084   -54.969665   -87.316187   -2.207009
-0.004529   -0.408849   -40.414988
0.28169   -54.969665   -87.316187   -2.207009
-0.004529   -0.470083   -68.415487
0.42253   -54.969665   -87.316187   -2.207009
-0.004529   -1.295003   -109.413405
0.56337   -54.969665   -87.316187   -2.207009
-0.004529   -2.119489   -157.755159

COMB DESIGN ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    42.691333   119.865907    1.965167
0.007014    1.176247    87.255086
0.14084    42.691333   119.865907    1.965167
0.007014    0.351598    70.745116
0.28169    42.691333   119.865907    1.965167
0.007014    0.530993    73.709876
0.42253    42.691333   119.865907    1.965167
0.007014    1.452312   101.248893
0.56337    42.691333   119.865907    1.965167
0.007014    2.374110   136.571668

COMB DESIGN ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -54.969665   -87.316187   -2.207009
-0.004529   -1.333113   -30.343440
0.14084   -54.969665   -87.316187   -2.207009
-0.004529   -0.408849   -40.414988
0.28169   -54.969665   -87.316187   -2.207009
-0.004529   -0.470083   -68.415487
0.42253   -54.969665   -87.316187   -2.207009
-0.004529   -1.295003   -109.413405
0.56337   -54.969665   -87.316187   -2.207009
-0.004529   -2.119489   -157.755159

ELEM     226 ================== LENGTH
=    2.977749

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43657    8.173812   37.562821    0.525986
0.001517    0.592144   44.311473
0.57743    8.173812   37.562821    0.525986
0.001517    0.371530   28.727766
0.71829    8.173812   37.562821    0.525986
0.001517    0.150926   13.189090
0.85914    8.173812   37.562821    0.525986
0.001517    0.079791    2.413174
1.00000    8.173812   37.562821    0.525986
0.001517    0.303320    2.146650

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43657   -1.879565   -31.626594   -0.533345
-1.70E-05   -0.591666   -60.083088
0.57743   -1.879565   -31.626594   -0.533345
-1.70E-05   -0.367981   -46.908036
0.71829   -1.879565   -31.626594   -0.533345
-1.70E-05   -0.146608   -33.833814
0.85914   -1.879565   -31.626594   -0.533345
-1.70E-05   -0.075988   -21.340583
1.00000   -1.879565   -31.626594   -0.533345
-1.70E-05   -0.290367   -20.248851

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43657    8.222854   64.371186    0.791128
0.007716    0.887240   115.628498
0.57743    8.222854   64.371186    0.791128
0.007716    0.555485   90.344331
0.71829    8.222854   64.371186    0.791128
0.007716    0.223832   76.246749
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   2493

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.85914    8.222854   64.371186    0.791128
0.007716    0.147034   82.645530
1.00000    8.222854   64.371186    0.791128
0.007716    0.510393   102.753714

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43657   -17.402212   -116.047829   -0.867530
-0.005815   -0.957993   -104.626509
0.57743   -17.402212   -116.047829   -0.867530
-0.005815   -0.598320   -61.856087
0.71829   -17.402212   -116.047829   -0.867530
-0.005815   -0.238709   -41.651750
0.85914   -17.402212   -116.047829   -0.867530
-0.005815   -0.139459   -26.249489
1.00000   -17.402212   -116.047829   -0.867530
-0.005815   -0.460663   -12.448613

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43657    9.765780   71.994370    0.845019
0.005603    0.945432   120.118099
0.57743    9.765780   71.994370    0.845019
0.005603    0.591025   95.681313
0.71829    9.765780   71.994370    0.845019
0.005603    0.236580   79.182087
0.85914    9.765780   71.994370    0.845019
0.005603    0.167566   77.341503
1.00000    9.765780   71.994370    0.845019
0.005603    0.626173   90.344684

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43657   -14.265683   -124.474155   -1.094391
-0.004550   -1.218686   -133.119765
0.57743   -14.265683   -124.474155   -1.094391
-0.004550   -0.762544   -85.213049
0.71829   -14.265683   -124.474155   -1.094391
-0.004550   -0.306586   -52.858132
0.85914   -14.265683   -124.474155   -1.094391
-0.004550   -0.138811   -23.238812
1.00000   -14.265683   -124.474155   -1.094391
-0.004550   -0.486309   -14.409876
```

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	15.165065	72.352630	0.877427
0.004655	0.982072	123.282518	
0.57743	15.165065	72.352630	0.877427
0.004655	0.614068	97.720128	
0.71829	15.165065	72.352630	0.877427
0.004655	0.246022	78.813920	
0.85914	15.165065	72.352630	0.877427
0.004655	0.169975	72.216731	
1.00000	15.165065	72.352630	0.877427
0.004655	0.652066	78.406392	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-13.479666	-107.244849	-1.150123
-0.004287	-1.284830	-130.926204	
0.57743	-13.479666	-107.244849	-1.150123
-0.004287	-0.804819	-89.991120	
0.71829	-13.479666	-107.244849	-1.150123
-0.004287	-0.324956	-62.240888	
0.85914	-13.479666	-107.244849	-1.150123
-0.004287	-0.139351	-37.357352	
1.00000	-13.479666	-107.244849	-1.150123
-0.004287	-0.501651	-29.673220	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	0.415070	13.746864	0.255475
0.005064	0.282204	40.955963	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57743	0.415070	13.746864	0.255475
0.005064	0.175136	38.434335	
0.71829	0.415070	13.746864	0.255475
0.005064	0.068102	45.645957	
0.85914	0.415070	13.746864	0.255475
0.005064	0.067176	70.699040	
1.00000	0.415070	13.746864	0.255475
0.005064	0.221673	104.384290	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-14.174677	-94.093586	-0.369162
-0.005122	-0.408518	-57.684598	
0.57743	-14.174677	-94.093586	-0.369162
-0.005122	-0.257194	-23.295130	
0.71829	-14.174677	-94.093586	-0.369162
-0.005122	-0.105998	-7.924043	
0.85914	-14.174677	-94.093586	-0.369162
-0.005122	-0.065445	-2.132660	
1.00000	-14.174677	-94.093586	-0.369162
-0.005122	-0.163642	-1.994813	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	8.380094	30.456678	0.405274
0.004713	0.449326	59.435839	
0.57743	8.380094	30.456678	0.405274
0.004713	0.279368	53.035653	
0.71829	8.380094	30.456678	0.405274
0.004713	0.109343	55.783625	
0.85914	8.380094	30.456678	0.405274
0.004713	0.110014	75.213366	
1.00000	8.380094	30.456678	0.405274
0.004713	0.406802	102.512849	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-11.745016	-109.146142	-0.708365
-0.005430	-0.791670	-93.457712	
0.57743	-11.745016	-109.146142	-0.708365
-0.005430	-0.497855	-52.941413	
0.71829	-11.745016	-109.146142	-0.708365
-0.005430	-0.204223	-30.363944	
0.85914	-11.745016	-109.146142	-0.708365
-0.005430	-0.084577	-11.907378	
1.00000	-11.745016	-109.146142	-0.708365
-0.005430	-0.246645	-14.780921	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	10.511128	79.302554	0.734631
0.004220	0.820630	153.460031	
0.57743	10.511128	79.302554	0.734631
0.004220	0.512519	125.912787	
0.71829	10.511128	79.302554	0.734631
0.004220	0.204266	104.971577	
0.85914	10.511128	79.302554	0.734631
0.004220	0.151072	96.189919	
1.00000	10.511128	79.302554	0.734631
0.004220	0.581964	94.701686	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-18.029338	-107.775023	-1.027970
-0.004042	-1.149833	-117.239275	
0.57743	-18.029338	-107.775023	-1.027970
-0.004042	-0.721004	-76.013476	
0.71829	-18.029338	-107.775023	-1.027970
-0.004042	-0.292343	-47.755979	
0.85914	-18.029338	-107.775023	-1.027970
-0.004042	-0.120749	-23.271729	
1.00000	-18.029338	-107.775023	-1.027970
-0.004042	-0.423254	-19.068606	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	11.546281	77.393605	0.798345
0.003531	0.892709	152.090926	
0.57743	11.546281	77.393605	0.798345
0.003531	0.557871	124.444126	
0.71829	11.546281	77.393605	0.798345
0.003531	0.222937	102.311542	
0.85914	11.546281	77.393605	0.798345
0.003531	0.153387	90.318481	
1.00000	11.546281	77.393605	0.798345
0.003531	0.605726	84.273414	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-17.112600	-91.596162	-1.078956
-0.003868	-1.210453	-115.488950	
0.57743	-17.112600	-91.596162	-1.078956
-0.003868	-0.759860	-80.475677	
0.71829	-17.112600	-91.596162	-1.078956
-0.003868	-0.309419	-56.324826	
0.85914	-17.112600	-91.596162	-1.078956
-0.003868	-0.126045	-35.088744	
1.00000	-17.112600	-91.596162	-1.078956
-0.003868	-0.456230	-31.155218	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	1.480605	16.693180	0.296629
6.78E-06	0.332864	38.290136	
0.57743	1.480605	16.693180	0.296629
6.78E-06	0.208447	31.306679	
0.71829	1.480605	16.693180	0.296629
6.78E-06	0.084017	24.368601	
0.85914	1.480605	16.693180	0.296629
6.78E-06	0.039189	17.525608	
1.00000	1.480605	16.693180	0.296629
6.78E-06	0.175263	10.945700	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-3.968271	-2.816528	-0.324656
-0.000745	-0.369459	-26.490101	
0.57743	-3.968271	-2.816528	-0.324656
-0.000745	-0.233291	-25.359300	
0.71829	-3.968271	-2.816528	-0.324656
-0.000745	-0.097111	-24.295034	
0.85914	-3.968271	-2.816528	-0.324656
-0.000745	-0.040348	-23.257076	
1.00000	-3.968271	-2.816528	-0.324656
-0.000745	-0.164828	-22.255095	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	12.651948	32.178741	0.477250
0.000195	0.535115	63.687090	
0.57743	12.651948	32.178741	0.477250
0.000195	0.334940	50.409558	
0.71829	12.651948	32.178741	0.477250
0.000195	0.134737	37.661184	
0.85914	12.651948	32.178741	0.477250
0.000195	0.078643	26.653804	
1.00000	12.651948	32.178741	0.477250
0.000195	0.339619	16.701460	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-5.535246	-13.386595	-0.622282
-0.001524	-0.704868	-54.611130	
0.57743	-5.535246	-13.386595	-0.622282
-0.001524	-0.444001	-49.875792	
0.71829	-5.535246	-13.386595	-0.622282
-0.001524	-0.183129	-46.372888	
0.85914	-5.535246	-13.386595	-0.622282
-0.001524	-0.066303	-43.573302	
1.00000	-5.535246	-13.386595	-0.622282
-0.001524	-0.266246	-41.452302	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	9.016255	39.390383	0.585843
0.000310	0.653193	75.326923	
0.57743	9.016255	39.390383	0.585843
0.000310	0.407471	63.991295	
0.71829	9.016255	39.390383	0.585843
0.000310	0.161657	53.776701	
0.85914	9.016255	39.390383	0.585843
0.000310	0.110546	46.085733	
1.00000	9.016255	39.390383	0.585843
0.000310	0.474556	45.863520	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-8.266811	-58.000031	-0.868175
-0.001955	-0.982692	-94.991652	
0.57743	-8.266811	-58.000031	-0.868175
-0.001955	-0.618784	-71.766866	
0.71829	-8.266811	-58.000031	-0.868175
-0.001955	-0.255046	-50.435178	
0.85914	-8.266811	-58.000031	-0.868175
-0.001955	-0.105516	-32.908040	
1.00000	-8.266811	-58.000031	-0.868175
-0.001955	-0.330821	-35.425451	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	9.102577	71.444425	0.752901
0.003709	0.841243	150.144748	
0.57743	9.102577	71.444425	0.752901
0.003709	0.525469	124.957029	
0.71829	9.102577	71.444425	0.752901
0.003709	0.209626	106.209288	
0.85914	9.102577	71.444425	0.752901
0.003709	0.145349	99.241641	
1.00000	9.102577	71.444425	0.752901
0.003709	0.575617	98.284317	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-18.935982	-90.574713	-1.026478
-0.004485	-1.153571	-108.928038	
0.57743	-18.935982	-90.574713	-1.026478
-0.004485	-0.725340	-74.757772	
0.71829	-18.935982	-90.574713	-1.026478
-0.004485	-0.297247	-53.257557	
0.85914	-18.935982	-90.574713	-1.026478
-0.004485	-0.122857	-34.678033	
1.00000	-18.935982	-90.574713	-1.026478
-0.004485	-0.433181	-32.979439	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	15.820452	33.432962	0.801226
0.001621	0.905547	40.570141	
0.57743	15.820452	33.432962	0.801226
0.001621	0.594481	26.803290	
0.71829	15.820452	33.432962	0.801226
0.001621	0.232885	13.345296	
0.85914	15.820452	33.432962	0.801226
0.001621	0.168934	3.475070	
1.00000	15.820452	33.432962	0.801226
0.001621	0.657094	2.434293	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-3.121880	-43.653814	-1.164342
-1.27E-05	-1.129742	-89.836298	
0.57743	-3.121880	-43.653814	-1.164342
-1.27E-05	-0.808447	-71.773167	
0.71829	-3.121880	-43.653814	-1.164342
-1.27E-05	-0.321159	-53.972733	
0.85914	-3.121880	-43.653814	-1.164342
-1.27E-05	-0.101726	-38.301171	
1.00000	-3.121880	-43.653814	-1.164342
-1.27E-05	-0.438209	-31.627631	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	15.433471	57.546402	1.406415
0.007719	1.568853	107.857376	
0.57743	15.433471	57.546402	1.406415
0.007719	0.979124	85.983060	
0.71829	15.433471	57.546402	1.406415
0.007719	0.392202	76.564915	
0.85914	15.433471	57.546402	1.406415
0.007719	0.264848	86.379392	
1.00000	15.433471	57.546402	1.406415
0.007719	0.976763	107.077596	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-19.617110	-126.244603	-1.698981
-0.006093	-1.888749	-138.918319	
0.57743	-19.617110	-126.244603	-1.698981
-0.006093	-1.179352	-87.918293	
0.71829	-19.617110	-126.244603	-1.698981
-0.006093	-0.473431	-60.980427	
0.85914	-19.617110	-126.244603	-1.698981
-0.006093	-0.224569	-40.085038	
1.00000	-19.617110	-126.244603	-1.698981
-0.006093	-0.809175	-25.691719	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	16.324767	68.956041	1.547340
0.005802	1.727663	126.195590	
0.57743	16.324767	68.956041	1.547340
0.005802	1.078460	100.947555	
0.71829	16.324767	68.956041	1.547340
0.005802	0.431134	84.863025	
0.85914	16.324767	68.956041	1.547340
0.005802	0.288797	83.344361	
1.00000	16.324767	68.956041	1.547340
0.005802	1.111549	98.400620	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-17.343075	-128.270391	-1.962837
-0.004844	-2.191826	-154.108874	
0.57743	-17.343075	-128.270391	-1.962837
-0.004844	-1.371017	-102.038394	
0.71829	-17.343075	-128.270391	-1.962837
-0.004844	-0.552326	-67.296328	
0.85914	-17.343075	-128.270391	-1.962837
-0.004844	-0.234623	-36.800426	
1.00000	-17.343075	-128.270391	-1.962837
-0.004844	-0.880336	-25.712791	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	21.028580	74.233535	1.574497
0.004822	1.760291	134.995207	
0.57743	21.028580	74.233535	1.574497
0.004822	1.099747	107.131791	
0.71829	21.028580	74.233535	1.574497
0.004822	0.440755	86.960635	
0.85914	21.028580	74.233535	1.574497
0.004822	0.296594	79.123170	
1.00000	21.028580	74.233535	1.574497
0.004822	1.154373	85.710661	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-16.796151	-110.897197	-2.046240
-0.004539	-2.287187	-149.042761	
0.57743	-16.796151	-110.897197	-2.046240
-0.004539	-1.430882	-104.201719	
0.71829	-16.796151	-110.897197	-2.046240
-0.004539	-0.576604	-73.914370	
0.85914	-16.796151	-110.897197	-2.046240
-0.004539	-0.233747	-47.830160	
1.00000	-16.796151	-110.897197	-2.046240
-0.004539	-0.813349	-38.721442	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	0.380904	14.626778	0.588227
0.004198	0.644338	46.824620	
0.57743	0.380904	14.626778	0.588227
0.004198	0.397790	43.504875	
0.71829	0.380904	14.626778	0.588227
0.004198	0.153168	49.539657	
0.85914	0.380904	14.626778	0.588227
0.004198	0.085164	71.853707	
1.00000	0.380904	14.626778	0.588227
0.004198	0.304879	99.576038	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-16.596016	-81.375940	-0.524557
-0.004491	-0.585706	-54.790727	
0.57743	-16.596016	-81.375940	-0.524557
-0.004491	-0.366016	-22.473452	
0.71829	-16.596016	-81.375940	-0.524557
-0.004491	-0.152594	-7.458172	
0.85914	-16.596016	-81.375940	-0.524557
-0.004491	-0.112620	-2.224794	
1.00000	-16.596016	-81.375940	-0.524557
-0.004491	-0.355662	-2.119010	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	8.136718	36.759390	0.868127
0.004006	0.959617	80.337304	
0.57743	8.136718	36.759390	0.868127
0.004006	0.594581	68.940484	
0.71829	8.136718	36.759390	0.868127
0.004006	0.233121	66.342679	
0.85914	8.136718	36.759390	0.868127
0.004006	0.155305	78.086003	
1.00000	8.136718	36.759390	0.868127
0.004006	0.592673	100.726743	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-14.167186	-93.102575	-1.044130
-0.004924	-1.168684	-84.163555	
0.57743	-14.167186	-93.102575	-1.044130
-0.004924	-0.732920	-46.927552	
0.71829	-14.167186	-93.102575	-1.044130
-0.004924	-0.299274	-26.252864	
0.85914	-14.167186	-93.102575	-1.044130
-0.004924	-0.148098	-10.863089	
1.00000	-14.167186	-93.102575	-1.044130
-0.004924	-0.508670	-14.080721	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	12.573606	79.936420	1.430378
0.003529	1.593392	163.966749	
0.57743	12.573606	79.936420	1.430378
0.003529	0.993325	133.858997	
0.71829	12.573606	79.936420	1.430378
0.003529	0.394001	109.780223	
0.85914	12.573606	79.936420	1.430378
0.003529	0.245251	95.913577	
1.00000	12.573606	79.936420	1.430378
0.003529	0.971112	92.553051	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-20.115374	-99.459428	-1.732180
-0.003434	-1.941320	-120.137428	
0.57743	-20.115374	-99.459428	-1.732180
-0.003434	-1.216271	-79.895567	
0.71829	-20.115374	-99.459428	-1.732180
-0.003434	-0.492622	-50.680285	
0.85914	-20.115374	-99.459428	-1.732180
-0.003434	-0.215300	-26.264796	
1.00000	-20.115374	-99.459428	-1.732180
-0.003434	-0.813361	-19.416221	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	13.694093	82.279765	1.521564
0.002957	1.698061	168.373414	
0.57743	13.694093	82.279765	1.521564
0.002957	1.059771	136.866536	
0.71829	13.694093	82.279765	1.521564
0.002957	0.421994	110.470033	
0.85914	13.694093	82.279765	1.521564
0.002957	0.252758	92.660302	
1.00000	13.694093	82.279765	1.521564
0.002957	1.018780	83.925639	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-20.306474	-86.000051	-1.827021
-0.003373	-2.051558	-120.160884	
0.57743	-20.306474	-86.000051	-1.827021
-0.003373	-1.286414	-85.468942	
0.71829	-20.306474	-86.000051	-1.827021
-0.003373	-0.522508	-60.066087	
0.85914	-20.306474	-86.000051	-1.827021
-0.003373	-0.223990	-38.528146	
1.00000	-20.306474	-86.000051	-1.827021
-0.003373	-0.860486	-32.209953	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	2.601773	22.843457	0.556097
3.96E-06	0.623247	49.832609	
0.57743	2.601773	22.843457	0.556097
3.96E-06	0.389980	40.540468	
0.71829	2.601773	22.843457	0.556097
3.96E-06	0.156633	31.400489	
0.85914	2.601773	22.843457	0.556097
3.96E-06	0.067895	22.620318	
1.00000	2.601773	22.843457	0.556097
3.96E-06	0.303081	14.203132	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-8.042035	-5.660827	-0.560022
-0.000767	-0.636192	-30.947411	
0.57743	-8.042035	-5.660827	-0.560022
-0.000767	-0.401112	-28.884179	
0.71829	-8.042035	-5.660827	-0.560022
-0.000767	-0.166210	-27.017070	
0.85914	-8.042035	-5.660827	-0.560022
-0.000767	-0.076301	-25.504601	
1.00000	-8.042035	-5.660827	-0.560022
-0.000767	-0.309822	-24.297309	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	14.165720	43.952879	0.868767
0.000124	0.745492	84.712170	
0.57743	14.165720	43.952879	0.868767
0.000124	0.610280	66.876806	
0.71829	14.165720	43.952879	0.868767
0.000124	0.245811	49.589152	
0.85914	14.165720	43.952879	0.868767
0.000124	0.141371	33.688825	
1.00000	14.165720	43.952879	0.868767
0.000124	0.593456	19.615678	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-9.842279	-15.616836	-1.078034
-0.001525	-1.215113	-58.178186	
0.57743	-9.842279	-15.616836	-1.078034
-0.001525	-0.762734	-52.386633	
0.71829	-9.842279	-15.616836	-1.078034
-0.001525	-0.310726	-47.596426	
0.85914	-9.842279	-15.616836	-1.078034
-0.001525	-0.111931	-44.167794	
1.00000	-9.842279	-15.616836	-1.078034
-0.001525	-0.483551	-43.505646	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	10.069626	50.886072	1.138535
5.51E-06	1.271631	104.275071	
0.57743	10.069626	50.886072	1.138535
5.51E-06	0.793972	85.867572	
0.71829	10.069626	50.886072	1.138535
5.51E-06	0.315712	68.343058	
0.85914	10.069626	50.886072	1.138535
5.51E-06	0.171627	54.130747	
1.00000	10.069626	50.886072	1.138535
5.51E-06	0.737662	50.032459	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43657	-13.933758	-49.936661	-1.349274
-0.001621	-1.525303	-88.223962	
0.57743	-13.933758	-49.936661	-1.349274
-0.001621	-0.959214	-68.333282	
0.71829	-13.933758	-49.936661	-1.349274
-0.001621	-0.393234	-49.293989	
0.85914	-13.933758	-49.936661	-1.349274
-0.001621	-0.159508	-35.141677	
1.00000	-13.933758	-49.936661	-1.349274
-0.001621	-0.637657	-37.366612	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43657	10.573766	79.101877	1.501568

```
 0.002803    1.672337  171.843075
 0.57743    10.573766   79.101877    1.501568
 0.002803    1.042540  141.895345
 0.71829    10.573766   79.101877    1.501568
 0.002803    0.413434  117.541611
 0.85914    10.573766   79.101877    1.501568
 0.002803    0.229927  103.010235
 1.00000    10.573766   79.101877    1.501568
 0.002803    0.936782   97.110033

COMB DL-G3-4 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43657  -24.006417  -80.937145   -1.686305
-0.003721   -1.897679 -109.120856
 0.57743  -24.006417  -80.937145   -1.686305
-0.003721   -1.191563  -76.832854
 0.71829  -24.006417  -80.937145   -1.686305
-0.003721   -0.486658  -54.730051
 0.85914  -24.006417  -80.937145   -1.686305
-0.003721   -0.225446  -37.857170
 1.00000  -24.006417  -80.937145   -1.686305
-0.003721   -0.853575  -34.993170

COMB       DB ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43657   15.165065   79.302554    0.877427
 0.007716    0.982072  153.460031
 0.57743   15.165065   79.302554    0.877427
 0.007716    0.640468  125.312787
 0.71829   15.165065   79.302554    0.877427
 0.007716    0.246022  106.209288
 0.85914   15.165065   79.302554    0.877427
 0.007716    0.169975   99.241641
 1.00000   15.165065   79.302554    0.877427
 0.007716    0.652066  104.384290

COMB       DB ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43657  -18.935982 -124.474155   -1.150123
-0.005815   -1.284830 -133.119765
 0.57743  -18.935982 -124.474155   -1.150123
-0.005815   -0.804819  -89.991120
 0.71829  -18.935982 -124.474155   -1.150123
-0.005815   -0.324956  -62.240888
 0.85914  -18.935982 -124.474155   -1.150123
-0.005815   -0.139459  -43.573302
 1.00000  -18.935982 -124.474155   -1.150123
-0.005815   -0.501651  -41.452302
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                      MOVING          LOAD                >
                                       2501

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43657   21.028580   82.279765    1.574497
 0.007719    1.760291  171.843075
 0.57743   21.028580   82.279765    1.574497
 0.007719    1.099747  141.895345
 0.71829   21.028580   82.279765    1.574497
 0.007719    0.440755  117.541611
 0.85914   21.028580   82.279765    1.574497
 0.007719    0.296594  103.010235
 1.00000   21.028580   82.279765    1.574497
 0.007719    1.154373  107.077596

COMB       DL ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43657  -24.006417 -128.270391   -2.046240
-0.006093   -2.287187 -154.108874
 0.57743  -24.006417 -128.270391   -2.046240
-0.006093   -1.430882 -104.201719
 0.71829  -24.006417 -128.270391   -2.046240
-0.006093   -0.576604  -73.914370
 0.85914  -24.006417 -128.270391   -2.046240
-0.006093   -0.234623  -47.830160
 1.00000  -24.006417 -128.270391   -2.046240
-0.006093   -0.891349  -43.505646

COMB      CAR ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43657   21.028580   82.279765    1.574497
 0.007719    1.760291  171.843075
 0.57743   21.028580   82.279765    1.574497
 0.007719    1.099747  141.895345
 0.71829   21.028580   82.279765    1.574497
 0.007719    0.440755  117.541611
 0.85914   21.028580   82.279765    1.574497
 0.007719    0.296594  103.010235
 1.00000   21.028580   82.279765    1.574497
 0.007719    1.154373  107.077596

COMB      CAR ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43657  -24.006417 -128.270391   -2.046240
-0.006093   -2.287187 -154.108874
 0.57743  -24.006417 -128.270391   -2.046240
-0.006093   -1.430882 -104.201719
 0.71829  -24.006417 -128.270391   -2.046240
-0.006093   -0.576604  -73.914370
 0.85914  -24.006417 -128.270391   -2.046240
-0.006093   -0.234623  -47.830160
 1.00000  -24.006417 -128.270391   -2.046240
-0.006093   -0.891349  -43.505646

COMB   DESIGN ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43657   21.028580   82.279765    1.574497
 0.007719    1.760291  171.843075
 0.57743   21.028580   82.279765    1.574497
 0.007719    1.099747  141.895345
 0.71829   21.028580   82.279765    1.574497
 0.007719    0.440755  117.541611
 0.85914   21.028580   82.279765    1.574497
 0.007719    0.296594  103.010235
 1.00000   21.028580   82.279765    1.574497
 0.007719    1.154373  107.077596

COMB   DESIGN ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43657  -24.006417 -128.270391   -2.046240
-0.006093   -2.287187 -154.108874
 0.57743  -24.006417 -128.270391   -2.046240
-0.006093   -1.430882 -104.201719
 0.71829  -24.006417 -128.270391   -2.046240
-0.006093   -0.576604  -73.914370
 0.85914  -24.006417 -128.270391   -2.046240
-0.006093   -0.234623  -47.830160
 1.00000  -24.006417 -128.270391   -2.046240
-0.006093   -0.891349  -43.505646
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                      MOVING          LOAD                >
                                       2502

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       227 ================== LENGTH
=     2.977809

COMB DB-G1-1 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    8.168439   37.170458    0.582840
 0.001479    0.331224    2.142887
 0.14086    8.168439   37.170458    0.582840
 0.001479    0.086800    7.226346
 0.28172    8.168439   37.170458    0.582840
 0.001479    0.148640   19.980199
 0.42258    8.168439   37.170458    0.582840
 0.001479    0.374545   33.120297
 0.56344    8.168439   37.170458    0.582840
 0.001479    0.600444   46.276628

COMB DB-G1-1 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -1.852722  -31.545583   -0.538575
-7.20E-06   -0.030190  -20.500186
 0.14086  -1.852722  -31.545583   -0.538575
-7.20E-06   -0.077223  -35.046200
 0.28172  -1.852722  -31.545583   -0.538575
-7.20E-06   -0.157845  -50.452173
 0.42258  -1.852722  -31.545583   -0.538575
-7.20E-06   -0.402334  -65.992224
 0.56344  -1.852722  -31.545583   -0.538575
-7.20E-06   -0.646807  -81.556735

COMB DB-G1-2 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    7.829695  129.612634    0.838678
 0.007600    0.474510  103.128430
 0.14086    7.829695  129.612634    0.838678
 0.007600    0.131257   84.344646
 0.28172    7.829695  129.612634    0.838678
 0.007600    0.243177   73.045975
 0.42258    7.829695  129.612634    0.838678
 0.007600    0.610465   84.497768
 0.56344    7.829695  129.612634    0.838678
 0.007600    0.984203  105.946934

COMB DB-G1-2 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -19.337900  -54.062349   -0.908058
-0.005877   -0.539666  -12.455687
 0.14086  -19.337900  -54.062349   -0.908058
-0.005877   -0.160120  -33.815812
 0.28172  -19.337900  -54.062349   -0.908058
-0.005877   -0.229252  -56.814271
 0.42258  -19.337900  -54.062349   -0.908058
-0.005877   -0.580973  -87.668725
 0.56344  -19.337900  -54.062349   -0.908058
-0.005877   -0.932688 -139.020445

COMB DB-G1-3 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    9.562068  116.282699    0.860154
 0.005522    0.483972   90.591183
 0.14086    9.562068  116.282699    0.860154
 0.005522    0.129098   93.176512
 0.28172    9.562068  116.282699    0.860154
 0.005522    0.313326  103.840916
 0.42258    9.562068  116.282699    0.860154
 0.005522    0.787838  130.761397
 0.56344    9.562068  116.282699    0.860154
 0.005522    1.266817  164.537196

COMB DB-G1-3 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -15.597376  -82.752325   -1.153519
-0.004150   -0.668806  -14.380650
 0.14086  -15.597376  -82.752325   -1.153519
-0.004150   -0.185897  -39.998751
 0.28172  -15.597376  -82.752325   -1.153519
-0.004150   -0.237793  -67.426453
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                      MOVING          LOAD                >
                                       2503

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.42258  -15.597376  -82.752325   -1.153519
-0.004150   -0.598505 -100.177719
 0.56344  -15.597376  -82.752325   -1.153519
-0.004150   -0.959233 -146.902576

COMB DB-G1-4 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   15.006732  109.139422    0.897150
 0.004588    0.504789   78.618159
 0.14086   15.006732  109.139422    0.897150
 0.004588    0.133300   77.878229
 0.28172   15.006732  109.139422    0.897150
 0.004588    0.332687   87.092309
 0.42258   15.006732  109.139422    0.897150
 0.004588    0.836247  110.158127
 0.56344   15.006732  109.139422    0.897150
 0.004588    1.343504  139.196700

COMB DB-G1-4 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -14.590167  -72.735502   -1.218977
-0.004131   -0.701932  -29.653138
 0.14086  -14.590167  -72.735502   -1.218977
-0.004131   -0.191301  -50.753177
 0.28172  -14.590167  -72.735502   -1.218977
-0.004131   -0.247956  -73.481898
 0.42258  -14.590167  -72.735502   -1.218977
-0.004131   -0.624208 -101.057044
 0.56344  -14.590167  -72.735502   -1.218977
-0.004131   -1.000478 -141.381462

COMB DB-G2-1 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.094400   68.921122    0.221278
 0.004862    0.122177  104.694663
 0.14086    0.094400   68.921122    0.221278
 0.004862    0.036625   94.043079
 0.28172    0.094400   68.921122    0.221278
 0.004862    0.113233   84.012939
 0.42258    0.094400   68.921122    0.221278
 0.004862    0.284182   92.707054
 0.56344    0.094400   68.921122    0.221278
 0.004862    0.460618  109.606228

COMB DB-G2-1 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -15.830397  -42.576053   -0.435004
-0.004913   -0.269464   -1.982959
 0.14086  -15.830397  -42.576053   -0.435004
-0.004913   -0.088288   -4.015838
 0.28172  -15.830397  -42.576053   -0.435004
-0.004913   -0.063518   -6.776064
 0.42258  -15.830397  -42.576053   -0.435004
-0.004913   -0.156334  -16.074064
 0.56344  -15.830397  -42.576053   -0.435004
-0.004913   -0.249128  -42.501495

COMB DB-G2-2 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    8.163537   81.822828    0.360251
 0.004525    0.198912  102.803692
 0.14086    8.163537   81.822828    0.360251
 0.004525    0.054467   98.122095
 0.28172    8.163537   81.822828    0.360251
 0.004525    0.213697   96.071845
 0.42258    8.163537   81.822828    0.360251
 0.004525    0.535810  112.481116
 0.56344    8.163537   81.822828    0.360251
 0.004525    0.863050  136.907792

COMB DB-G2-2 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -13.310322  -61.536425   -0.793448
-0.005061   -0.468503  -14.769224
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                      MOVING          LOAD                >
                                       2504

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.14086  -13.310322  -61.536425   -0.793448
-0.005061   -0.136783  -21.392904
 0.28172  -13.310322  -61.536425   -0.793448
-0.005061   -0.103308  -28.795796
 0.42258  -13.310322  -61.536425   -0.793448
-0.005061   -0.254411  -42.812139
 0.56344  -13.310322  -61.536425   -0.793448
-0.005061   -0.405519  -73.838357

COMB DB-G2-3 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   10.369500  115.076367    0.729564
 0.004364    0.409008   94.892487
 0.14086   10.369500  115.076367    0.729564
 0.004364    0.107657   86.976527
 0.28172   10.369500  115.076367    0.729564
 0.004364    0.294696   96.563332
 0.42258   10.369500  115.076367    0.729564
 0.004364    0.732290  120.363297
 0.56344   10.369500  115.076367    0.729564
 0.004364    1.174618  150.110038

COMB DB-G2-3 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -19.113869  -74.180103   -1.064791
-0.003677   -0.614928  -19.045617
 0.14086  -19.113869  -74.180103   -1.064791
-0.003677   -0.169027  -26.650580
 0.28172  -19.113869  -74.180103   -1.064791
-0.003677   -0.203006  -55.357085
 0.42258  -19.113869  -74.180103   -1.064791
-0.003677   -0.509066  -88.847951
 0.56344  -19.113869  -74.180103   -1.064791
-0.003677   -0.815083 -134.585487

COMB DB-G2-4 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   11.432702  107.430991    0.802883
 0.003650    0.450661   84.439849
 0.14086   11.432702  107.430991    0.802883
 0.003650    0.117805   73.008634
 0.28172   11.432702  107.430991    0.802883
 0.003650    0.314839   81.065274
 0.42258   11.432702  107.430991    0.802883
 0.003650    0.785795  101.223783
 0.56344   11.432702  107.430991    0.802883
 0.003650    1.259868  126.300576

COMB DB-G2-4 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -18.027513  -63.474649   -1.139795
-0.003779   -0.655004  -31.138691
 0.14086  -18.027513  -63.474649   -1.139795
-0.003779   -0.177467  -37.091371
 0.28172  -18.027513  -63.474649   -1.139795
-0.003779   -0.222848  -60.614693
 0.42258  -18.027513  -63.474649   -1.139795
-0.003779   -0.559652  -88.059063
 0.56344  -18.027513  -63.474649   -1.139795
-0.003779   -0.896423 -125.833849

COMB DB-G3-1 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.489001   16.881362    0.311233
 9.56E-06   0.175464   10.854641
 0.14086    1.489001   16.881362    0.311233
 9.56E-06   0.044871    5.841644
 0.28172    1.489001   16.881362    0.311233
 9.56E-06   0.103810    3.281886
 0.42258    1.489001   16.881362    0.311233
 9.56E-06   0.263894    2.176876
 0.56344    1.489001   16.881362    0.311233
 9.56E-06   0.423972    2.956474
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                      MOVING          LOAD                >
                                       2505

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.002582   -2.775329   -0.381655
-0.001125   -0.216372  -22.259061
 0.14086   -4.002582   -2.775329   -0.381655
-0.001125   -0.056208  -21.306241
 0.28172   -4.002582   -2.775329   -0.381655
-0.001125   -0.085614  -20.435648
 0.42258   -4.002582   -2.775329   -0.381655
-0.001125   -0.216178  -19.689097
 0.56344   -4.002582   -2.775329   -0.381655
-0.001125   -0.346726  -19.014753

COMB DB-G3-2 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   12.666029   34.431674    0.497153
 0.000188    0.279858   16.728716
 0.14086   12.666029   34.431674    0.497153
 0.000188    0.071527    8.819933
 0.28172   12.666029   34.431674    0.497153
 0.000188    0.191648    6.240629
 0.42258   12.666029   34.431674    0.497153
 0.000188    0.483509    8.704125
 0.56344   12.666029   34.431674    0.497153
 0.000188    0.775567   12.252677

COMB DB-G3-2 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -5.619508  -11.701114   -0.696855
-0.002050   -0.393639  -41.460377
 0.14086   -5.619508  -11.701114   -0.696855
-0.002050   -0.101205  -40.401062
 0.28172   -5.619508  -11.701114   -0.696855
-0.002050   -0.137174  -41.215066
 0.42258   -5.619508  -11.701114   -0.696855
-0.002050   -0.345734  -43.290869
 0.56344   -5.619508  -11.701114   -0.696855
-0.002050   -0.554265  -47.291601

COMB DB-G3-3 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    9.082751   42.933766    0.562642
 0.000298    0.313726   45.885612
 0.14086    9.082751   42.933766    0.562642
 0.000298    0.078160   56.441628
 0.28172    9.082751   42.933766    0.562642
 0.000298    0.267825   72.039607
 0.42258    9.082751   42.933766    0.562642
 0.000298    0.676501   93.435848
 0.56344    9.082751   42.933766    0.562642
 0.000298    1.085601  115.760139

COMB DB-G3-3 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -8.403757  -55.547843   -0.976202
-0.001876   -0.552399  -35.422716
 0.14086   -8.403757  -55.547843   -0.976202
-0.001876   -0.142939  -41.109597
 0.28172   -8.403757  -55.547843   -0.976202
-0.001876   -0.158307  -47.000666
 0.42258   -8.403757  -55.547843   -0.976202
-0.001876   -0.394318  -53.744392
 0.56344   -8.403757  -55.547843   -0.976202
-0.001876   -0.630320  -62.429246

COMB DB-G3-4 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    8.960394  107.168033    0.747471
 0.003810    0.418826   98.487082
 0.14086    8.960394  107.168033    0.747471
 0.003810    0.109885   81.223341
 0.28172    8.960394  107.168033    0.747471
 0.003810    0.307770   79.360680
 0.42258    8.960394  107.168033    0.747471
 0.003810    0.771952   95.941891
 0.56344    8.960394  107.168033    0.747471
 0.003810    1.239787  118.378756
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                      MOVING          LOAD                >
                                       2506

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -20.041174  -57.247946   -1.124654
-0.004513   -0.647410  -32.966938
 0.14086  -20.041174  -57.247946   -1.124654
-0.004513   -0.176402  -34.542584
 0.28172  -20.041174  -57.247946   -1.124654
-0.004513   -0.208232  -52.406079
 0.42258  -20.041174  -57.247946   -1.124654
-0.004513   -0.521764  -76.162976
 0.56344  -20.041174  -57.247946   -1.124654
-0.004513   -0.835289 -111.847225

COMB DL-G1-1 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   15.807551   33.090174    0.929297
 0.001631    0.530701    2.428205
 0.14086   15.807551   33.090174    0.929297
 0.001631    0.140417    6.610500
 0.28172   15.807551   33.090174    0.929297
 0.001631    0.310817   22.602149
 0.42258   15.807551   33.090174    0.929297
 0.001631    0.768607   40.188327
 0.56344   15.807551   33.090174    0.929297
 0.001631    1.226385   58.180991

COMB DL-G1-1 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -3.099230  -43.571432   -1.091532
-4.28E-06   -0.605003  -31.620232
 0.14086   -3.099230  -43.571432   -1.091532
-4.28E-06   -0.147278  -33.978853
 0.28172   -3.099230  -43.571432   -1.091532
-4.28E-06   -0.247787  -45.780927
 0.42258   -3.099230  -43.571432   -1.091532
-4.28E-06   -0.637960  -59.058338
 0.56344   -3.099230  -43.571432   -1.091532
-4.28E-06   -1.027927  -72.677969

COMB DL-G1-2 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   14.989178  120.724816    1.443977
 0.008172    0.819006  107.213014
 0.14086   14.989178  120.724816    1.443977
 0.008172    0.230318   85.692698
 0.28172   14.989178  120.724816    1.443977
 0.008172    0.473241   77.902933
 0.42258   14.989178  120.724816    1.443977
 0.008172    1.181596   92.406658
 0.56344   14.989178  120.724816    1.443977
 0.008172    1.893995  118.049635

COMB DL-G1-2 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -22.624038  -65.516980   -1.718665
-0.005867   -0.993560  -25.675018
 0.14086  -22.624038  -65.516980   -1.718665
-0.005867   -0.274940  -32.004233
 0.28172  -22.624038  -65.516980   -1.718665
-0.005867   -0.395483  -49.923515
 0.42258  -22.624038  -65.516980   -1.718665
-0.005867   -0.516026  -78.103029
 0.56344  -22.624038  -65.516980   -1.718665
-0.005867   -1.606451 -127.597616

COMB DL-G1-3 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   16.066597  113.797285    1.573775
 0.006139    0.887511   98.437109
 0.14086   16.066597  113.797285    1.573775
 0.006139    0.239063   94.392791
 0.28172   16.066597  113.797285    1.573775
 0.006139    0.555310  103.800682
 0.42258   16.066597  113.797285    1.573775
 0.006139    1.388113  129.387658
 0.56344   16.066597  113.797285    1.573775
 0.006139    2.223434  162.914173
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                      MOVING          LOAD                >
                                       2507

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -19.512421  -85.495377   -2.006088
-0.004356   -1.144746  -25.688485
 0.14086  -19.512421  -85.495377   -2.006088
-0.004356   -0.304949  -38.558305
 0.28172  -19.512421  -85.495377   -2.006088
-0.004356   -0.433087  -61.783353
 0.42258  -19.512421  -85.495377   -2.006088
-0.004356   -1.093659  -92.884249
 0.56344  -19.512421  -85.495377   -2.006088
-0.004356   -1.753829 -138.439876

COMB DL-G1-4 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   20.826629  111.515563    1.625717
```

```
 0.005102    0.918470   85.749898
0.14086   20.826629  111.515563    1.625717
 0.005102    0.246365   78.842389
0.28172   20.826629  111.515563    1.625717
 0.005102    0.579474   87.403704
0.42258   20.826629  111.515563    1.625717
 0.005102    1.448345  109.877108
0.56344   20.826629  111.515563    1.625717
 0.005102    2.319566  139.158792

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -18.616726  -75.588057   -2.089015
-0.004289   -1.187364  -38.707640
0.14086  -18.616726  -75.588057   -2.089015
-0.004289   -0.312570  -51.276296
0.28172  -18.616726  -75.588057   -2.089015
-0.004289   -0.445852  -75.581054
0.42258  -18.616726  -75.588057   -2.089015
-0.004289   -1.128116 -106.619987
0.56344  -18.616726  -75.588057   -2.089015
-0.004289   -1.810046 -149.739331

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.083380   59.327463    0.480949
 0.004407    0.266490   99.614712
0.14086    0.083380   59.327463    0.480949
 0.004407    0.076738   91.636071
0.28172    0.083380   59.327463    0.480949
 0.004407    0.165166   84.311432
0.42258    0.083380   59.327463    0.480949
 0.004407    0.421947   91.561026
0.56344    0.083380   59.327463    0.480949
 0.004407    0.681443  106.489144

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -18.728025  -39.269783   -0.633098
-0.004110   -0.383681   -3.104495
0.14086  -18.728025  -39.269783   -0.633098
-0.004110   -0.119957   -3.860154
0.28172  -18.728025  -39.269783   -0.633098
-0.004110   -0.139423   -6.465681
0.42258  -18.728025  -39.269783   -0.633098
-0.004110   -0.341049  -15.725497
0.56344  -18.728025  -39.269783   -0.633098
-0.004110   -0.542499  -39.187879

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    7.933128   79.511233    0.788635
 0.004206    0.439953  100.769850
0.14086    7.933128   79.511233    0.788635
 0.004206    0.120725   95.465320
0.28172    7.933128   79.511233    0.788635
 0.004206    0.310622   93.004849
0.42258    7.933128   79.511233    0.788635
 0.004206    0.782914  105.139360
0.56344    7.933128   79.511233    0.788635
 0.004206    1.257722  124.934412
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2508

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -16.258806  -53.193665   -1.145394
-0.004390   -0.666418  -14.064794
0.14086  -16.258806  -53.193665   -1.145394
-0.004390   -0.187670   -22.650224
0.28172  -16.258806  -53.193665   -1.145394
-0.004390   -0.222876   -32.866269
0.42258  -16.258806  -53.193665   -1.145394
-0.004390   -0.553739   -49.627104
0.56344  -16.258806  -53.193665   -1.145394
-0.004390   -0.884482   -80.052888

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   12.447594  107.087992    1.397683
 0.003968    0.783687   92.566490
0.14086   12.447594  107.087992    1.397683
 0.003968    0.204220   84.910498
0.28172   12.447594  107.087992    1.397683
 0.003968    0.498974   97.794629
0.42258   12.447594  107.087992    1.397683
 0.003968    1.250267  121.163330
0.56344   12.447594  107.087992    1.397683
 0.003968    2.003375  149.855620

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -21.461905  -73.647731   -1.804225
-0.002971   -1.026794  -19.386022
0.14086  -21.461905  -73.647731   -1.804225
-0.002971   -0.271502  -26.134567
0.28172  -21.461905  -73.647731   -1.804225
-0.002971   -0.388507   -54.762134
0.42258  -21.461905  -73.647731   -1.804225
-0.002971   -0.505277   -88.200569
0.56344  -21.461905  -73.647731   -1.804225
-0.002971   -1.561588  -130.636078

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   13.601839  105.187609    1.514190
 0.003324    0.849998   83.945896
0.14086   13.601839  105.187609    1.514190
 0.003324    0.220663   71.656392
0.28172   13.601839  105.187609    1.514190
 0.003324    0.553074   82.719843
0.42258   13.601839  105.187609    1.514190
 0.003324    1.338656  102.995740
0.56344   13.601839  105.187609    1.514190
 0.003324    2.145819  127.674717

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -21.461833  -64.359040   -1.931477
-0.003220   -1.097126  -32.190508
0.14086  -21.461833  -64.359040   -1.931477
-0.003220   -0.286244   -37.440931
0.28172  -21.461833  -64.359040   -1.931477
-0.003220   -0.419825   -65.388210
0.42258  -21.461833  -64.359040   -1.931477
-0.003220   -1.055460   -97.819694
0.56344  -21.461833  -64.359040   -1.931477
-0.003220   -1.690638  -137.861330

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    2.623242   23.082343    0.570320
 6.87E-06    0.320367   14.216527
0.14086    2.623242   23.082343    0.570320
 6.87E-06    0.081101    7.009050
0.28172    2.623242   23.082343    0.570320
 6.87E-06    0.178517    4.181254
0.42258    2.623242   23.082343    0.570320
 6.87E-06    0.456439    4.824970
0.56344    2.623242   23.082343    0.570320
 6.87E-06    0.734298    6.004847

Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2509

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -8.085530   -5.684845   -0.662361
-0.001203   -0.376578  -24.305102
0.14086   -8.085530   -5.684845   -0.662361
-0.001203   -0.098773  -23.681163
0.28172   -8.085530   -5.684845   -0.662361
-0.001203   -0.158051  -26.382373
0.42258   -8.085530   -5.684845   -0.662361
-0.001203   -0.397372  -32.171172
0.56344   -8.085530   -5.684845   -0.662361
-0.001203   -0.636606  -38.320051

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   14.191876   45.542128    0.918595
 0.000131    0.519703   19.639978
0.14086   14.191876   45.542128    0.918595
 0.000131    0.335030    9.388569
0.28172   14.191876   45.542128    0.918595
 0.000131    0.320486    7.199879
0.42258   14.191876   45.542128    0.918595
 0.000131    0.808633   10.528338
0.56344   14.191876   45.542128    0.918595
 0.000131    1.297313   15.474537

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -9.969882  -14.726955   -1.164998
-0.002030   -0.657120  -43.518356
0.14086   -9.969882  -14.726955   -1.164998
-0.002030   -0.168469  -45.899256
0.28172   -9.969882  -14.726955   -1.164998
-0.002030   -0.251406  -54.714525
0.42258   -9.969882  -14.726955   -1.164998
-0.002030   -0.636733  -67.611718
0.56344   -9.969882  -14.726955   -1.164998
-0.002030   -1.021937  -81.557588

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   10.168052   51.254591    1.123203
 7.84E-06    0.627684   50.042820
0.14086   10.168052   51.254591    1.123203
 7.84E-06    0.156118   56.803684
0.28172   10.168052   51.254591    1.123203
 7.84E-06    0.411225   70.578753
0.42258   10.168052   51.254591    1.123203
 7.84E-06    1.041017   88.723011
0.56344   10.168052   51.254591    1.123203
 7.84E-06    1.671098  108.004111

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -14.027434  -50.726247   -1.501391
-0.001652   -0.847493  -37.365960
0.14086  -14.027434  -50.726247   -1.501391
-0.001652   -0.217751  -45.033100
0.28172  -14.027434  -50.726247   -1.501391
-0.001652   -0.313098  -57.169665
0.42258  -14.027434  -50.726247   -1.501391
-0.001652   -0.784894  -73.425878
0.56344  -14.027434  -50.726247   -1.501391
-0.001652   -1.256083  -89.536599

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   10.479245  104.114707    1.455270
 0.003170    0.814848   97.138944
0.14086   10.479245  104.114707    1.455270
 0.003170    0.210955   81.018646
0.28172   10.479245  104.114707    1.455270
 0.003170    0.505195   82.782127
0.42258   10.479245  104.114707    1.455270
 0.003170    1.276503   98.713408
0.56344   10.479245  104.114707    1.455270
 0.003170    2.049718  120.252929
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2510

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -25.284407  -57.487699   -1.850751
-0.003693   -1.056859  -34.979910
0.14086  -25.284407  -57.487369   -1.850751
-0.003693   -0.281615  -37.948965
0.28172  -25.284407  -57.487369   -1.850751
-0.003693   -0.406365  -59.822662
0.42258  -25.284407  -57.487369   -1.850751
-0.003693   -1.017090  -89.804382
0.56344  -25.284407  -57.487369   -1.850751
-0.003693   -1.627413  -128.271708

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   15.006732  129.612634    0.897150
 0.007600    0.504789  104.694663
0.14086   15.006732  129.612634    0.897150
 0.007600    0.133300   98.122095
0.28172   15.006732  129.612634    0.897150
 0.007600    0.633287  103.846616
0.42258   15.006732  129.612634    0.897150
 0.007600    0.836247  130.761397
0.56344   15.006732  129.612634    0.897150
 0.007600    1.343504  164.537196

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -20.041174  -82.752325   -1.218977
-0.005877   -0.701932  -41.460377
0.14086  -20.041174  -82.752325   -1.218977
-0.005877   -0.191301  -50.753177
0.28172  -20.041174  -82.752325   -1.218977
-0.005877   -0.247956  -73.481898
0.42258  -20.041174  -82.752325   -1.218977
-0.005877   -0.624208 -101.057044
0.56344  -20.041174  -82.752325   -1.218977
-0.005877   -1.000478 -146.902576

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   20.826629  120.724816    1.625717
 0.008172    0.918470  107.137014
0.14086   20.826629  120.724816    1.625717
 0.008172    0.246365   95.465320
0.28172   20.826629  120.724816    1.625717
 0.008172    0.579474  103.800682
0.42258   20.826629  120.724816    1.625717
 0.008172    1.448345  129.387658
0.56344   20.826629  120.724816    1.625717
 0.008172    2.319566  162.914173

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -25.284407  -85.495377   -2.089015
-0.005867   -1.187364  -43.518356
0.14086  -25.284407  -85.495377   -2.089015
-0.005867   -0.312570  -51.276296
0.28172  -25.284407  -85.495377   -2.089015
-0.005867   -0.445852  -75.581054
0.42258  -25.284407  -85.495377   -2.089015
-0.005867   -1.128116 -106.619987
0.56344  -25.284407  -85.495377   -2.089015
-0.005867   -1.810046 -149.739331

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   20.826629  129.612634    1.625717
 0.008172    0.918470  107.137014
0.14086   20.826629  129.612634    1.625717
 0.008172    0.246365   98.122095
0.28172   20.826629  129.612634    1.625717
 0.008172    0.579474  103.840916
0.42258   20.826629  129.612634    1.625717
 0.008172    1.448345  130.761397
0.56344   20.826629  129.612634    1.625717
 0.008172    2.319566  164.537196
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2511

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -25.284407  -85.495377   -2.089015
-0.005877   -1.187364  -43.518356
0.14086  -25.284407  -85.495377   -2.089015
-0.005877   -0.312570  -51.276296
0.28172  -25.284407  -85.495377   -2.089015
-0.005877   -0.445852  -75.581054
0.42258  -25.284407  -85.495377   -2.089015
-0.005877   -1.128116 -106.619987
0.56344  -25.284407  -85.495377   -2.089015
-0.005877   -1.810046 -149.739331

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   20.826629  129.612634    1.625717
 0.008172    0.918470  107.137014
0.14086   20.826629  129.612634    1.625717
 0.008172    0.246365   98.122095
0.28172   20.826629  129.612634    1.625717
 0.008172    0.579474  103.840916
0.42258   20.826629  129.612634    1.625717
 0.008172    1.448345  130.761397
0.56344   20.826629  129.612634    1.625717
 0.008172    2.319566  164.537196

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -25.284407  -85.495377   -2.089015
-0.005877   -1.187364  -43.518356
0.14086  -25.284407  -85.495377   -2.089015
-0.005877   -0.312570  -51.276296
0.28172  -25.284407  -85.495377   -2.089015
-0.005877   -0.445852  -75.581054
0.42258  -25.284407  -85.495377   -2.089015
-0.005877   -1.128116 -106.619987
0.56344  -25.284407  -85.495377   -2.089015
-0.005877   -1.810046 -149.739331

ELEM      228 ================== LENGTH
=     2.977253

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664   2.075942   59.755036    0.494174
 0.001422    0.552751   78.178782
0.57748   2.075942   59.755036    0.494174
 0.001422    0.345537   53.710990
0.71832   2.075942   59.755036    0.494174
 0.001422    0.138308   28.753512
0.85916   2.075942   59.755036    0.494174
 0.001422    0.072482    4.280662
1.00000   2.075942   59.755036    0.494174
 0.001422    0.279001    2.444807

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -7.522004  -18.048728   -0.497585
-1.63E-05   -0.556008  -36.322942
0.57748   -7.522004  -18.048728   -0.497585
-1.63E-05   -0.347369  -28.854959
0.71832   -7.522004  -18.048728   -0.497585
-1.63E-05   -0.138728  -21.700114
0.85916   -7.522004  -18.048728   -0.497585
-1.63E-05   -0.068839  -14.953473
1.00000   -7.522004  -18.048728   -0.497585
-1.63E-05   -0.276104  -22.937396

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    5.666537   88.596841    0.697836
 0.007879    0.780111  162.710693
0.57748    5.666537   88.596841    0.697836
 0.007879    0.487503  127.579891
0.71832    5.666537   88.596841    0.697836
 0.007879    0.194813  105.821098
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2512

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.85916    5.666537   88.596841    0.697836
 0.007879    0.146231  102.730781
1.00000    5.666537   88.596841    0.697836
 0.007879    0.496655  115.013669

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664  -12.256377 -103.439834   -0.838956
-0.006291   -0.910667   -72.553348
0.57748  -12.256377 -103.439834   -0.838956
-0.006291   -0.563155   -41.110129
0.71832  -12.256377 -103.439834   -0.838956
-0.006291   -0.227849   -28.584930
0.85916  -12.256377 -103.439834   -0.838956
-0.006291   -0.118041   -19.903999
1.00000  -12.256377 -103.439834   -0.838956
-0.006291   -0.390343   -13.014877

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    8.564661   84.727226    0.736290
 0.005672    0.823570  157.885514
0.57748    8.564661   84.727226    0.736290
 0.005672    0.514833  126.150060
 0.71832    8.564661   84.727226    0.736290
 0.005672    0.205987  104.178414
0.85916    8.564661   84.727226    0.736290
 0.005672    0.163817   96.438471
1.00000    8.564661   84.727226    0.736290
 0.005672    0.599571  109.050525

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664  -10.817470 -125.474645   -1.042101
-0.004826   -1.148550 -115.005459
0.57748  -10.817470 -125.474645   -1.042101
-0.004826   -0.714616   -70.608955
0.71832  -10.817470 -125.474645   -1.042101
-0.004826   -0.289013   -37.788041
0.85916  -10.817470 -125.474645   -1.042101
-0.004826   -0.116001   -18.511496
1.00000  -10.817470 -125.474645   -1.042101
-0.004826   -0.411292   -13.707178

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664   10.112680   77.704976    0.801154
 0.004711    0.895794  146.341405
0.57748   10.112680   77.704976    0.801154
 0.004711    0.559855  116.930819
0.71832   10.112680   77.704976    0.801154
 0.004711    0.223829   95.635744
0.85916   10.112680   77.704976    0.801154
 0.004711    0.164449   86.234685
1.00000   10.112680   77.704976    0.801154
 0.004711    0.618507   93.926863

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -9.634969 -116.237122   -1.085440
-0.004482   -1.202298 -133.707444
0.57748   -9.634969 -116.237122   -1.085440
-0.004482   -0.749703   -92.105257
0.71832   -9.634969 -116.237122   -1.085440
-0.004482   -0.304059   -60.529221
0.85916   -9.634969 -116.237122   -1.085440
-0.004482   -0.123083   -40.713391
1.00000   -9.634969 -116.237122   -1.085440
-0.004482   -0.447878   -32.618683

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    4.602831    9.736051    0.174740
0.005380    0.195243   46.382816
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2513

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.57748    4.602831    9.736051    0.174740
0.005380    0.121956   45.003725
0.71832    4.602831    9.736051    0.174740
0.005380    0.048601   55.385876
0.85916    4.602831    9.736051    0.174740
0.005380    0.071859   83.220695
1.00000    4.602831    9.736051    0.174740
0.005380    0.226740  121.579021

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -3.079219 -100.861286   -0.372058
-0.005502   -0.397530   -52.574463
0.57748   -3.079219 -100.861286   -0.372058
-0.005502   -0.245104   -20.211695
0.71832   -3.079219 -100.861286   -0.372058
-0.005502   -0.102931   -4.258928
0.85916   -3.079219 -100.861286   -0.372058
-0.005502   -0.041483   -2.870429
1.00000   -3.079219 -100.861286   -0.372058
-0.005502   -0.097790   -2.743298

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    9.193203   16.342396    0.328608
 0.004903    0.367332   55.278900
0.57748    9.193203   16.342396    0.328608
 0.004903    0.229532   52.677402
0.71832    9.193203   16.342396    0.328608
 0.004903    0.091641   61.225108
0.85916    9.193203   16.342396    0.328608
 0.004903    0.111368   86.088478
1.00000    9.193203   16.342396    0.328608
 0.004903    0.396326  123.657750

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -2.753318 -129.696722   -0.682617
-0.005730   -0.748813 -106.587632
0.57748   -2.753318 -129.696722   -0.682617
-0.005730   -0.466074   -61.713655
0.71832   -2.753318 -129.696722   -0.682617
-0.005730   -0.192865   -30.548303
0.85916   -2.753318 -129.696722   -0.682617
-0.005730   -0.061570   -15.091156
1.00000   -2.753318 -129.696722   -0.682617
-0.005730   -0.183740   -14.499547

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    9.017692   80.742261    0.637603
 0.004344    0.713028  177.054402
0.57748    9.017692   80.742261    0.637603
 0.004344    0.445654  146.820927
0.71832    9.017692   80.742261    0.637603
 0.004344    0.178144  124.671402
0.85916    9.017692   80.742261    0.637603
 0.004344    0.149713  114.887953
1.00000    9.017692   80.742261    0.637603
 0.004344    0.560617  117.009213

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -9.373071 -118.597939   -0.982372
-0.004239   -1.087266 -117.134667
0.57748   -9.373071 -118.597939   -0.982372
-0.004239   -0.677849   -74.323060
0.71832   -9.373071 -118.597939   -0.982372
-0.004239   -0.275182   -41.410238
0.85916   -9.373071 -118.597939   -0.982372
-0.004239   -0.099964   -23.210408
1.00000   -9.373071 -118.597939   -0.982372
-0.004239   -0.356306   -18.524203
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2514

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    9.858586   75.022486    0.734075
```

```
 0.003635    0.820760  165.497273
0.57748     9.858586   75.022486    0.734075
 0.003635    0.512945  137.077653
0.71832     9.858586   75.022486    0.734075
 0.003635    0.205048  115.432428
0.85916     9.858586   75.022486    0.734075
 0.003635    0.150522  104.095387
1.00000     9.858586   75.022486    0.734075
 0.003635    0.578338  102.584237

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -8.561914 -107.061986   -1.022501
-0.004006   -1.136813 -133.394349
0.57748   -8.561914 -107.061986   -1.022501
-0.004006   -0.710189  -94.469831
0.71832   -8.561914 -107.061986   -1.022501
-0.004006   -0.289258  -63.785910
0.85916   -8.561914 -107.061986   -1.022501
-0.004006   -0.111792  -45.216546
1.00000   -8.561914 -107.061986   -1.022501
-0.004006   -0.410403  -38.320095

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    3.111925   12.359427    0.322674
 7.03E-06    0.360658   30.297591
0.57748    3.111925   12.359427    0.322674
 7.03E-06    0.162557   25.147964
0.71832    3.111925   12.359427    0.322674
 7.03E-06    0.090041   20.025315
0.85916    3.111925   12.359427    0.322674
 7.03E-06    0.038498   14.998996
1.00000    3.111925   12.359427    0.322674
 7.03E-06    0.162854   10.090692

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -1.270724  -11.068708   -0.299686
-0.000708   -0.339847   -3.469097
0.57748   -1.270724  -11.068708   -0.299686
-0.000708   -0.214235   -48.984386
0.71832   -1.270724  -11.068708   -0.299686
-0.000708   -0.088665   -44.613153
0.85916   -1.270724  -11.068708   -0.299686
-0.000708   -0.045176   -40.295621
1.00000   -1.270724  -11.068708   -0.299686
-0.000708   -0.180549   -36.024179

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    7.271383   19.961114    0.516043
 0.000203    0.576448   44.105236
0.57748    7.271383   19.961114    0.516043
 0.000203    0.360070   35.992245
0.71832    7.271383   19.961114    0.516043
 0.000203    0.143666   26.818402
0.85916    7.271383   19.961114    0.516043
 0.000203    0.074118   22.578386
1.00000    7.271383   19.961114    0.516043
 0.000203    0.313740   16.935398

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -1.966550  -33.083893   -0.572464
-0.001456   -0.646572 -100.461256
0.57748   -1.966550  -33.083893   -0.572464
-0.001456   -0.406758  -87.631903
0.71832   -1.966550  -33.083893   -0.572464
-0.001456   -0.167415  -76.057105
0.85916   -1.966550  -33.083893   -0.572464
-0.001456   -0.073261  -64.972263
1.00000   -1.966550  -33.083893   -0.572464
-0.001456   -0.289086  -54.377604
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2515

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    9.646640   21.515270    0.563254
 0.000322    0.609657   59.605355
0.57748    9.646640   21.515270    0.563254
 0.000322    0.393452   53.475476
0.71832    9.646640   21.515270    0.563254
 0.000322    0.157138   48.911744
0.85916    9.646640   21.515270    0.563254
 0.000322    0.105833   47.969496
1.00000    9.646640   21.515270    0.563254
 0.000322    0.443782   59.125510

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -2.271130  -85.227673   -0.807185
-0.001867   -0.910287 -138.273571
0.57748   -2.271130  -85.227673   -0.807185
-0.001867   -0.572242 -103.764525
0.71832   -2.271130  -85.227673   -0.807185
-0.001867   -0.234882  -70.889706
0.85916   -2.271130  -85.227673   -0.807185
-0.001867   -0.079565  -53.241713
1.00000   -2.271130  -85.227673   -0.807185
-0.001867   -0.314964  -49.006747

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   10.060561   63.842833    0.698622
 0.003826    0.781046  154.792066
0.57748   10.060561   63.842833    0.698622
 0.003826    0.488095  131.235853
0.71832   10.060561   63.842833    0.698622
 0.003826    0.195142  115.637696
0.85916   10.060561   63.842833    0.698622
 0.003826    0.144417  111.648560
1.00000   10.060561   63.842833    0.698622
 0.003826    0.552906  117.339393

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -7.282093 -109.938690   -0.976632
-0.004658   -1.085339 -136.681507
0.57748   -7.282093 -109.938690   -0.976632
-0.004658   -0.678319  -97.476027
0.71832   -7.282093 -109.938690   -0.976632
-0.004658   -0.278005  -67.955305
0.85916   -7.282093 -109.938690   -0.976632
-0.004658   -0.108554  -50.378473
1.00000   -7.282093 -109.938690   -0.976632
-0.004658   -0.390653  -44.279038

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    3.536944   55.749119    0.734282
 0.001397    0.823574   71.681966
0.57748    3.536944   55.749119    0.734282
 0.001397    0.515431   48.738727
0.71832    3.536944   55.749119    0.734282
 0.001397    0.207101   26.138314
0.85916    3.536944   55.749119    0.734282
 0.001397    0.151174    5.000541
1.00000    3.536944   55.749119    0.734282
 0.001397    0.594477    2.762137

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -6.557478  -22.346830   -1.058026
-1.19E-05   -1.181011  -49.167851
0.57748   -6.557478  -22.346830   -1.058026
-1.19E-05   -0.737415  -40.268201
0.71832   -6.557478  -22.346830   -1.058026
-1.19E-05   -0.293771  -31.726324
0.85916   -6.557478  -22.346830   -1.058026
-1.19E-05   -0.098873  -24.454664
1.00000   -6.557478  -22.346830   -1.058026
-1.19E-05   -0.407347  -34.053675
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2516

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    7.178312   81.901317    1.221031
 0.007792    1.361647  153.569491
0.57748    7.178312   81.901317    1.221031
 0.007792    0.850583  123.040368
0.71832    7.178312   81.901317    1.221031
 0.007792    0.339535  106.071056
0.85916    7.178312   81.901317    1.221031
 0.007792    0.250500  106.540670
1.00000    7.178312   81.901317    1.221031
 0.007792    0.906020  120.773508

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -11.174464 -105.107502   -1.567418
-0.006274   -1.725490  -91.269460
0.57748  -11.174464 -105.107502   -1.567418
-0.006274   -1.075721  -52.348435
0.71832  -11.174464 -105.107502   -1.567418
-0.006274   -0.432620  -38.265453
0.85916  -11.174464 -105.107502   -1.567418
-0.006274   -0.197018  -27.875044
1.00000  -11.174464 -105.107502   -1.567418
-0.006274   -0.699595  -26.238423

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    9.406876   79.186534    1.332503
 0.005795    1.487063  150.766678
0.57748    9.406876   79.186534    1.332503
 0.005795    0.928525  121.743565
0.71832    9.406876   79.186534    1.332503
 0.005795    0.370574  102.877495
0.85916    9.406876   79.186534    1.332503
 0.005795    0.273627  101.885779
1.00000    9.406876   79.186534    1.332503
 0.005795    1.031195  119.865453

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -10.039728 -122.286707   -1.809976
-0.004923   -2.006567 -121.501147
0.57748  -10.039728 -122.286707   -1.809976
-0.004923   -1.252906  -74.437162
0.71832  -10.039728 -122.286707   -1.809976
-0.004923   -0.504036  -45.178826
0.85916  -10.039728 -122.286707   -1.809976
-0.004923   -0.204084  -25.933266
1.00000  -10.039728 -122.286707   -1.809976
-0.004923   -0.756230  -25.584570

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   10.900959   74.468840    1.406152
 0.004814    1.569874  143.316711
0.57748   10.900959   74.468840    1.406152
 0.004814    0.980482  115.821708
0.71832   10.900959   74.468840    1.406152
 0.004814    0.391549   96.420558
0.85916   10.900959   74.468840    1.406152
 0.004814    0.283427   92.215685
1.00000   10.900959   74.468840    1.406152
 0.004814    1.086096  103.787771

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.081150 -114.250239   -1.916754
-0.004554   -2.130089 -141.355589
0.57748   -9.081150 -114.250239   -1.916754
-0.004554   -1.330740  -97.076077
0.71832   -9.081150 -114.250239   -1.916754
-0.004554   -0.535386  -67.829716
0.85916   -9.081150 -114.250239   -1.916754
-0.004554   -0.211281  -47.553814
1.00000   -9.081150 -114.250239   -1.916754
-0.004554   -0.795501  -42.958000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2517

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    3.894023   10.195687    0.457072
 0.004506    0.505470   48.893753
0.57748    3.894023   10.195687    0.457072
 0.004506    0.314570   48.568222
0.71832    3.894023   10.195687    0.457072
 0.004506    0.123379   59.275795
0.85916    3.894023   10.195687    0.457072
 0.004506    0.087018   86.542719
1.00000    3.894023   10.195687    0.457072
 0.004506    0.293226  119.134835

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -3.264264  -88.072043   -0.494020
-0.004611   -0.537141  -51.586627
0.57748   -3.264264  -88.072043   -0.494020
-0.004611   -0.335271  -19.059405
0.71832   -3.264264  -88.072043   -0.494020
-0.004611   -0.137845   -5.086251
0.85916   -3.264264  -88.072043   -0.494020
-0.004611   -0.085603   -3.514940
1.00000   -3.264264  -88.072043   -0.494020
-0.004611   -0.270500   -3.130358

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    8.291293   18.172938    0.718785
 0.004185    0.798431   61.091975
0.57748    8.291293   18.172938    0.718785
 0.004185    0.497332   57.682562
0.71832    8.291293   18.172938    0.718785
 0.004185    0.196891   64.061132
0.85916    8.291293   18.172938    0.718785
 0.004185    0.153372   89.345227
1.00000    8.291293   18.172938    0.718785
 0.004185    0.563776  124.518079

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -2.994548 -114.265787   -0.981746
-0.004942   -1.084344  -98.658585
0.57748   -2.994548 -114.265787   -0.981746
-0.004942   -0.677721  -54.767056
0.71832   -2.994548 -114.265787   -0.981746
-0.004942   -0.275495  -28.055504
0.85916   -2.994548 -114.265787   -0.981746
-0.004942   -0.120753  -14.800833
1.00000   -2.994548 -114.265787   -0.981746
-0.004942   -0.415185  -14.040703

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    8.566437   77.602181    1.224088
 0.003586    1.364934  176.287393
0.57748    8.566437   77.602181    1.224088
 0.003586    0.851540  147.244774
0.71832    8.566437   77.602181    1.224088
 0.003586    0.338606  124.981167
0.85916    8.566437   77.602181    1.224088
 0.003586    0.235221  117.384095
1.00000    8.566437   77.602181    1.224088
 0.003586    0.908750  118.895579

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.074002 -106.619263   -1.609099
-0.003418   -1.791014 -114.495537
0.57748   -9.074002 -106.619263   -1.609099
-0.003418   -1.119573  -72.897417
0.71832   -9.074002 -106.619263   -1.609099
-0.003418   -0.451111  -42.888357
0.85916   -9.074002 -106.619263   -1.609099
-0.003418   -0.183459  -25.575248
1.00000   -9.074002 -106.619263   -1.609099
-0.003418   -0.692503  -19.580831
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2518

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    9.443269   74.324009    1.364049
 0.003006    1.522133  169.554798
0.57748    9.443269   74.324009    1.364049
 0.003006    0.950143  141.398012
0.71832    9.443269   74.324009    1.364049
 0.003006    0.378242  118.918085
0.85916    9.443269   74.324009    1.364049
 0.003006    0.248294  108.660533
1.00000    9.443269   74.324009    1.364049
 0.003006    0.976342  106.089604

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -8.610167  -98.506482   -1.738312
-0.003331   -1.939651 -136.035111
0.57748   -8.610167  -98.506482   -1.738312
-0.003331   -1.213502  -97.478410
0.71832   -8.610167  -98.506482   -1.738312
-0.003331   -0.487722  -68.641337
0.85916   -8.610167  -98.506482   -1.738312
-0.003331   -0.200982  -50.212811
1.00000   -8.610167  -98.506482   -1.738312
-0.003331   -0.769283  -41.575679

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    3.050757   15.562081    0.574334
 4.11E-06    0.641946   38.655501
0.57748    3.050757   15.562081    0.574334
 4.11E-06    0.401039   32.312142
0.71832    3.050757   15.562081    0.574334
 4.11E-06    0.160093   26.007862
0.85916    3.050757   15.562081    0.574334
 4.11E-06    0.076484   19.747709
1.00000    3.050757   15.562081    0.574334
 4.11E-06    0.324440   13.565472

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -2.222188  -13.290653   -0.591746
-0.000719   -0.667291  -61.760978
0.57748   -2.222188  -13.290653   -0.591746
-0.000719   -0.450146  -56.471599
0.71832   -2.222188  -13.290653   -0.591746
-0.000719   -0.170999  -51.260048
0.85916   -2.222188  -13.290653   -0.591746
-0.000719   -0.080440  -46.092330
1.00000   -2.222188  -13.290653   -0.591746
-0.000719   -0.321510  -41.010930

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    7.471118   24.713974    0.887852
 0.000130    0.990480   55.889565
0.57748    7.471118   24.713974    0.887852
 0.000130    0.620297   45.918664
0.71832    7.471118   24.713974    0.887852
 0.000130    0.247792   36.568242
0.85916    7.471118   24.713974    0.887852
 0.000130    0.146145   27.822815
1.00000    7.471118   24.713974    0.887852
 0.000130    0.603444   19.962744

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -2.872749  -34.935296   -1.090710
-0.001389   -1.225065 -109.519543
0.57748   -2.872749  -34.935296   -1.090710
-0.001389   -0.767792  -95.564451
0.71832   -2.872749  -34.935296   -1.090710
-0.001389   -0.310785  -82.555251
0.85916   -2.872749  -34.935296   -1.090710
-0.001389   -0.124851  -70.680457
1.00000   -2.872749  -34.935296   -1.090710
-0.001389   -0.497164  -59.794171
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2519

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    8.810994   25.684092    1.064170
 5.45E-06    1.188099   70.095980
0.57748    8.810994   25.684092    1.064170
 5.45E-06    0.741520   61.581471
0.71832    8.810994   25.684092    1.064170
 5.45E-06    0.295191   54.625013
0.85916    8.810994   25.684092    1.064170
 5.45E-06    0.175924   55.834164
1.00000    8.810994   25.684092    1.064170
 5.45E-06    0.732073   65.917321

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -3.317567  -77.492253   -1.326391
-0.001473   -1.491661 -135.870627
0.57748   -3.317567  -77.492253   -1.326391
-0.001473   -0.935338 -104.740554
0.71832   -3.317567  -77.492253   -1.326391
-0.001473   -0.379330  -75.050141
0.85916   -3.317567  -77.492253   -1.326391
-0.001473   -0.148962  -59.252589
1.00000   -3.317567  -77.492253   -1.326391
-0.001473   -0.595505  -53.723818

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    9.270276   65.533552    1.356240
 0.002864    1.512123  165.213799
0.57748    9.270276   65.533552    1.356240
 0.002864    0.943431  140.829463
0.71832    9.270276   65.533552    1.356240
 0.002864    0.375158  122.713037
0.85916    9.270276   65.533552    1.356240
 0.002864    0.231628  117.490086
1.00000    9.270276   65.533552    1.356240
 0.002864    0.914795  119.686369

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -8.067701  -98.548199   -1.630990
-0.003673   -1.821075 -139.470774
0.57748   -8.067701  -98.548199   -1.630990
-0.003673   -1.140051 -101.083083
0.71832   -8.067701  -98.548199   -1.630990
-0.003673   -0.461751  -73.308540
0.85916   -8.067701  -98.548199   -1.630990
-0.003673   -0.201715  -56.786815
1.00000   -8.067701  -98.548199   -1.630990
-0.003673   -0.766870  -49.001975

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   10.112680   88.596841    0.801154
 0.007879    0.895794  177.054402
0.57748   10.112680   88.596841    0.801154
 0.007879    0.559855  146.820927
0.71832   10.112680   88.596841    0.801154
 0.007879    0.223829  124.671402
0.85916   10.112680   88.596841    0.801154
 0.007879    0.164449  114.887953
1.00000   10.112680   88.596841    0.801154
 0.007879    0.618507  123.657750

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -12.256377 -129.696722   -1.085440
-0.006291   -1.202298 -138.273571
0.57748  -12.256377 -129.696722   -1.085440
-0.006291   -0.749703 -103.764525
0.71832  -12.256377 -129.696722   -1.085440
-0.006291   -0.304059  -76.057105
0.85916  -12.256377 -129.696722   -1.085440
-0.006291   -0.123083  -64.972263
1.00000  -12.256377 -129.696722   -1.085440
-0.006291   -0.447878  -54.377604
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   2520

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   10.900959   81.901317    1.406152
 0.007792    1.569874  176.287393
0.57748   10.900959   81.901317    1.406152
 0.007792    0.980482  147.244774
0.71832   10.900959   81.901317    1.406152
 0.007792    0.391549  124.981167
0.85916   10.900959   81.901317    1.406152
 0.007792    0.283427  117.490086
1.00000   10.900959   81.901317    1.406152
 0.007792    1.086096  124.518079

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -11.174464 -122.286707   -1.916754
-0.006274   -2.130089 -141.355589
0.57748  -11.174464 -122.286707   -1.916754
-0.006274   -1.330740 -104.740554
0.71832  -11.174464 -122.286707   -1.916754
-0.006274   -0.535386  -82.555251
0.85916  -11.174464 -122.286707   -1.916754
-0.006274   -0.211281  -70.680457
1.00000  -11.174464 -122.286707   -1.916754
-0.006274   -0.795501  -59.794171

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   10.900959   88.596841    1.406152
 0.007879    1.569874  177.054402
0.57748   10.900959   88.596841    1.406152
 0.007879    0.980482  147.244774
0.71832   10.900959   88.596841    1.406152
 0.007879    0.391549  124.981167
0.85916   10.900959   88.596841    1.406152
 0.007879    0.283427  117.490086
1.00000   10.900959   88.596841    1.406152
 0.007879    1.086096  124.518079

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -12.256377 -129.696722   -1.916754
-0.006291   -2.130089 -141.355589
0.57748  -12.256377 -129.696722   -1.916754
-0.006291   -1.330740 -104.740554
0.71832  -12.256377 -129.696722   -1.916754
-0.006291   -0.535386  -82.555251
0.85916  -12.256377 -129.696722   -1.916754
-0.006291   -0.211281  -70.680457
1.00000  -12.256377 -129.696722   -1.916754
-0.006291   -0.795501  -59.794171

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   10.900959   88.596841    1.406152
 0.007879    1.569874  177.054402
0.57748   10.900959   88.596841    1.406152
 0.007879    0.980482  147.244774
0.71832   10.900959   88.596841    1.406152
 0.007879    0.391549  124.981167
0.85916   10.900959   88.596841    1.406152
 0.007879    0.283427  117.490086
1.00000   10.900959   88.596841    1.406152
 0.007879    1.086096  124.518079

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -12.256377 -129.696722   -1.916754
-0.006291   -2.130089 -141.355589
0.57748  -12.256377 -129.696722   -1.916754
-0.006291   -1.330740 -104.740554
```

```
0.71832   -12.256377 -129.696722   -1.916754
-0.006291   -0.535386   -82.555251
0.85916   -12.256377 -129.696722   -1.916754
-0.006291   -0.211281   -70.680457
1.00000   -12.256377 -129.696722   -1.916754
-0.006291   -0.795501   -59.794171
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                            2521

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      229 ================== LENGTH
=     2.977313

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    2.073709    59.648688    0.517412
 0.001423    0.292551     2.441473
0.14084    2.073709    59.648688    0.517412
 0.001423    0.075548     3.224835
0.28168    2.073709    59.648688    0.517412
 0.001423    0.139947     9.956562
0.42252    2.073709    59.648688    0.517412
 0.001423    0.353584    17.322946
0.56336    2.073709    59.648688    0.517412
 0.001423    0.567224    24.824656

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -7.503212   -18.111720   -0.509488
-7.36E-06   -0.267347   -22.957878
0.14084   -7.503212   -18.111720   -0.509488
-7.36E-06   -0.073670   -47.456687
0.28168   -7.503212   -18.111720   -0.509488
-7.36E-06   -0.141395   -72.406066
0.42252   -7.503212   -18.111720   -0.509488
-7.36E-06   -0.358376   -97.373405
0.56336   -7.503212   -18.111720   -0.509488
-7.36E-06   -0.575541   -122.367004

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    2.805345   154.107805    0.723491
 0.008093    0.408713   115.391174
0.14084    2.805345   154.107805    0.723491
 0.008093    0.119683    92.119381
0.28168    2.805345   154.107805    0.723491
 0.008093    0.230903    74.546351
0.42252    2.805345   154.107805    0.723491
 0.008093    0.567347    76.881933
0.56336    2.805345   154.107805    0.723491
 0.008093    0.921832    91.846274

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -15.666815   -41.537737   -0.850294
-0.006080   -0.504717   -13.034574
0.14084   -15.666815   -41.537737   -0.850294
-0.006080   -0.149380   -45.000427
0.28168   -15.666815   -41.537737   -0.850294
-0.006080   -0.198059   -77.800765
0.42252   -15.666815   -41.537737   -0.850294
-0.006080   -0.501465   -114.840956
0.56336   -15.666815   -41.537737   -0.850294
-0.006080   -0.804850   -172.968388

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    6.676314   129.127170    0.761932
 0.005844    0.429632   109.289569
0.14084    6.676314   129.127170    0.761932
 0.005844    0.119678   114.296180
0.28168    6.676314   129.127170    0.761932
 0.005844    0.294268   125.015624
0.42252    6.676314   129.127170    0.761932
 0.005844    0.731647   149.593729
0.56336    6.676314   129.127170    0.761932
 0.005844    1.181341   182.812879

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -13.132294   -83.616222   -1.075772
-0.004267   -0.723476   -13.721035
0.14084  -13.132294   -83.616222   -1.075772
-0.004267   -0.173105   -45.734694
0.28168  -13.132294   -83.616222   -1.075772
-0.004267   -0.209210   -78.336392
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                            2522

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.42252  -13.132294   -83.616222   -1.075772
-0.004267   -0.528790   -113.772042
0.56336  -13.132294   -83.616222   -1.075772
-0.004267   -0.848291   -163.524139

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    8.559869   114.495922    0.826230
 0.004855    0.467758    94.130630
0.14084    8.559869   114.495922    0.826230
 0.004855    0.127191    96.010610
0.28168    8.559869   114.495922    0.826230
 0.004855    0.310887   106.314529
0.42252    8.559869   114.495922    0.826230
 0.004855    0.775339   128.843356
0.56336    8.559869   114.495922    0.826230
 0.004855    1.249999   158.723649

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -11.555286   -81.572456   -1.134739
-0.004186   -0.653659   -32.637246
0.14084  -11.555286   -81.572456   -1.134739
-0.004186   -0.178418   -55.387886
0.28168  -11.555286   -81.572456   -1.134739
-0.004186   -0.227034   -78.747404
0.42252  -11.555286   -81.572456   -1.134739
-0.004186   -0.573561   -105.800880
0.56336  -11.555286   -81.572456   -1.134739
-0.004186   -0.920022   -145.901181

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    2.248648    64.773582    0.175231
 0.005316    0.098277   121.889034
0.14084    2.248648    64.773582    0.175231
 0.005316    0.036648   113.857592
0.28168    2.248648    64.773582    0.175231
 0.005316    0.107284   105.943149
0.42252    2.248648    64.773582    0.175231
 0.005316    0.257224   114.048453
0.56336    2.248648    64.773582    0.175231
 0.005316    0.422322   132.686540

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -5.960775   -49.138257   -0.397862
-0.005083   -0.245304   -2.734590
0.14084   -5.960775   -49.138257   -0.397862
-0.005083   -0.079472   -2.811559
0.28168   -5.960775   -49.138257   -0.397862
-0.005083   -0.048556   -3.443241
0.42252   -5.960775   -49.138257   -0.397862
-0.005083   -0.122105   -7.558841
0.56336   -5.960775   -49.138257   -0.397862
-0.005083   -0.195601   -29.283055

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    7.042337    67.494827    0.331525
 0.004948    0.185880   123.937818
0.14084    7.042337    67.494827    0.331525
 0.004948    0.057869   126.838685
0.28168    7.042337    67.494827    0.331525
 0.004948    0.200117   133.567994
0.42252    7.042337    67.494827    0.331525
 0.004948    0.491774   155.766449
0.56336    7.042337    67.494827    0.331525
 0.004948    0.797512   187.859399

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -5.433563   -81.770063   -0.732954
-0.005178   -0.432354   -14.492490
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                            2523

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.14084   -5.433563   -81.770063   -0.732954
-0.005178   -0.125887   -14.067261
0.28168   -5.433563   -81.770063   -0.732954
-0.005178   -0.092000   -14.281353
0.42252   -5.433563   -81.770063   -0.732954
-0.005178   -0.231039   -19.567819
0.56336   -5.433563   -81.770063   -0.732954
-0.005178   -0.370061   -42.752026

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    7.508754   116.534123    0.655538
 0.004656    0.369239   117.182190
0.14084    7.508754   116.534123    0.655538
 0.004656    0.102008   109.635267
0.28168    7.508754   116.534123    0.655538
 0.004656    0.274893   123.271295
0.42252    7.508754   116.534123    0.655538
 0.004656    0.676153   149.518866
0.56336    7.508754   116.534123    0.655538
 0.004656    1.088230   183.129096

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -11.243589   -84.889554   -0.989112
-0.003625   -0.571203   -18.507824
0.14084  -11.243589   -84.889554   -0.989112
-0.003625   -0.156974   -21.952508
0.28168  -11.243589   -84.889554   -0.989112
-0.003625   -0.180282   -50.320065
0.42252  -11.243589   -84.889554   -0.989112
-0.003625   -0.455304   -82.457612
0.56336  -11.243589   -84.889554   -0.989112
-0.003625   -0.730203   -127.676160

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    8.608859   104.961571    0.754095
 0.003895    0.424859   102.735210
0.14084    8.608859   104.961571    0.754095
 0.003895    0.115098    93.223332
0.28168    8.608859   104.961571    0.754095
 0.003895    0.292140   103.073861
0.42252    8.608859   104.961571    0.754095
 0.003895    0.722904   124.681623
0.56336    8.608859   104.961571    0.754095
 0.003895    1.162719   152.420566

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -10.128954   -78.748873   -1.054204
-0.003797   -0.605826   -38.312499
0.14084  -10.128954   -78.748873   -1.054204
-0.003797   -0.164199   -38.236782
0.28168  -10.128954   -78.748873   -1.054204
-0.003797   -0.207439   -58.886669
0.42252  -10.128954   -78.748873   -1.054204
-0.003797   -0.523680   -82.589084
0.56336  -10.128954   -78.748873   -1.054204
-0.003797   -0.839896   -116.944618

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    3.130650    12.361342    0.331201
 1.16E-05    0.186803    2.099246
0.14084    3.130650    12.361342    0.331201
 1.16E-05    0.047858    5.727544
0.28168    3.130650    12.361342    0.331201
 1.16E-05    0.094086    2.711487
0.42252    3.130650    12.361342    0.331201
 1.16E-05    0.228458    2.104789
0.56336    3.130650    12.361342    0.331201
 1.16E-05    0.382837    2.638560
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                            2524

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -1.273845   -10.930993   -0.344316
-0.001062   -0.194692   -36.033270
0.14084   -1.273845   -10.930993   -0.344316
-0.001062   -0.050281   -31.939058
0.28168   -1.273845   -10.930993   -0.344316
-0.001062   -0.090947   -28.097028
0.42252   -1.273845   -10.930993   -0.344316
-0.001062   -0.229844   -24.340412
0.56336   -1.273845   -10.930993   -0.344316
-0.001062   -0.368725   -20.727771

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    7.220365    21.950391    0.527120
 0.000247    0.296984    16.960277
0.14084    7.220365    21.950391    0.527120
 0.000247    0.076315    12.265386
0.28168    7.220365    21.950391    0.527120
 0.000247    0.175390    13.274463
0.42252    7.220365    21.950391    0.527120
 0.000247    0.442715    19.707644
0.56336    7.220365    21.950391    0.527120
 0.000247    0.710603    27.254060

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -2.076210   -31.257522   -0.639007
-0.001942   -0.361222   -54.395369
0.14084   -2.076210   -31.257522   -0.639007
-0.001942   -0.093290   -46.676973
0.28168   -2.076210   -31.257522   -0.639007
-0.001942   -0.145069   -39.981513
0.42252   -2.076210   -31.257522   -0.639007
-0.001942   -0.366121   -35.796953
0.56336   -2.076210   -31.257522   -0.639007
-0.001942   -0.587152   -34.231346

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    9.603124    24.694832    0.573955
 0.000326    0.322693    59.134537
0.14084    9.603124    24.694832    0.573955
 0.000326    0.082470    77.913737
0.28168    9.603124    24.694832    0.573955
 0.000326    0.245592   101.351093
0.42252    9.603124    24.694832    0.573955
 0.000326    0.619051   129.513054
0.56336    9.603124    24.694832    0.573955
 0.000326    0.993448   158.821350

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -2.447338   -82.426623   -0.893101
-0.001651   -0.504783   -49.012778
0.14084   -2.447338   -82.426623   -0.893101
-0.001651   -0.130514   -44.945474
0.28168   -2.447338   -82.426623   -0.893101
-0.001651   -0.158403   -41.116054
0.42252   -2.447338   -82.426623   -0.893101
-0.001651   -0.399218   -39.130829
0.56336   -2.447338   -82.426623   -0.893101
-0.001651   -0.639911   -39.533767

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    8.575389    99.336010    0.715422
 0.004103    0.402924   117.529271
0.14084    8.575389    99.336010    0.715422
 0.004103    0.110538   103.858065
0.28168    8.575389    99.336010    0.715422
 0.004103    0.284766   105.379419
0.42252    8.575389    99.336010    0.715422
 0.004103    0.705862   123.492705
0.56336    8.575389    99.336010    0.715422
 0.004103    1.126956   149.550334
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                            2525

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -9.141112   -76.384435   -1.030748
-0.004533   -0.592361   -44.275660
0.14084   -9.141112   -76.384435   -1.030748
-0.004533   -0.161426   -38.427985
0.28168   -9.141112   -76.384435   -1.030748
-0.004533   -0.196941   -49.428591
0.42252   -9.141112   -76.384435   -1.030748
-0.004533   -0.496966   -66.951239
0.56336   -9.141112   -76.384435   -1.030748
-0.004533   -0.796965   -97.035982

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    3.528470    55.776908    0.793405
 0.001482    0.449591     2.757226
0.14084    3.528470    55.776908    0.793405
 0.001482    0.116194     3.261415
0.28168    3.528470    55.776908    0.793405
 0.001482    0.288997    10.587341
0.42252    3.528470    55.776908    0.793405
 0.001482    0.723349    19.723718
0.56336    3.528470    55.776908    0.793405
 0.001482    1.157690    28.941201

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -6.543511   -22.476645   -1.035896
-4.35E-06   -0.579884   -34.060063
0.14084   -6.543511   -22.476645   -1.035896
-4.35E-06   -0.145543   -50.613807
0.28168   -6.543511   -22.476645   -1.035896
-4.35E-06   -0.213908   -71.967354
0.42252   -6.543511   -22.476645   -1.035896
-4.35E-06   -0.547439   -95.221065
0.56336   -6.543511   -22.476645   -1.035896
-4.35E-06   -0.880397   -118.491726

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    4.094144   144.874676    1.251047
 0.008207    0.717767   120.821524
0.14084    4.094144   144.874676    1.251047
 0.008207    0.205921    96.073877
0.28168    4.094144   144.874676    1.251047
 0.008207    0.432565    78.770962
0.42252    4.094144   144.874676    1.251047
 0.008207    1.229239    81.925041
0.56336    4.094144   144.874676    1.251047
 0.008207    1.730993    98.024818

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -15.088866   -45.176302   -1.573796
-0.006082   -0.912536   -26.239112
0.14084  -15.088866   -45.176302   -1.573796
-0.006082   -0.254460   -47.433027
0.28168  -15.088866   -45.176302   -1.573796
-0.006082   -0.341039   -74.500974
0.42252  -15.088866   -45.176302   -1.573796
-0.006082   -0.866249   -108.333259
0.56336  -15.088866   -45.176302   -1.573796
-0.006082   -1.390600   -166.538350

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    7.265859   123.743071    1.362387
 0.006131    0.774483   119.883400
0.14084    7.265859   123.743071    1.362387
 0.006131    0.212851   119.753493
0.28168    7.265859   123.743071    1.362387
 0.006131    0.505797   126.587663
0.42252    7.265859   123.743071    1.362387
 0.006131    1.261190   148.339720
0.56336    7.265859   123.743071    1.362387
 0.006131    2.025536   179.427556
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                            2526

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -12.826704   -79.859143   -1.830533
-0.004466   -1.047359   -25.579263
0.14084  -12.826704   -79.859143   -1.830533
-0.004466   -0.281099   -47.786421
0.28168  -12.826704   -79.859143   -1.830533
-0.004466   -0.372457   -75.154727
0.42252  -12.826704   -79.859143   -1.830533
-0.004466   -0.944219   -107.649831
0.56336  -12.826704   -79.859143   -1.830533
-0.004466   -1.515812   -157.427672

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    9.137722   111.387780    1.441612
 0.005094    0.818146   103.812171
0.14084    9.137722   111.387780    1.441612
 0.005094    0.221502   100.896436
0.28168    9.137722   111.387780    1.441612
 0.005094    0.537908   107.354848
0.42252    9.137722   111.387780    1.441612
 0.005094    1.343345   127.535470
0.56336    9.137722   111.387780    1.441612
 0.005094    2.156232   155.659544

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -11.402000   -79.031057   -1.944991
-0.004310   -1.107834   -42.961830
0.14084  -11.402000   -79.031057   -1.944991
-0.004310   -0.293455   -57.559316
0.28168  -11.402000   -79.031057   -1.944991
-0.004310   -0.394596   -78.578853
0.42252  -11.402000   -79.031057   -1.944991
-0.004310   -0.999440   -104.920190
0.56336  -11.402000   -79.031057   -1.944991
-0.004310   -1.604173   -145.848625

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    1.778533    54.422140    0.422091
 0.004545    0.242822   119.158420
0.14084    1.778533    54.422140    0.422091
 0.004545    0.075529   114.166153
0.28168    1.778533    54.422140    0.422091
 0.004545    0.143696   109.585940
0.42252    1.778533    54.422140    0.422091
 0.004545    0.355396   117.827139
0.56336    1.778533    54.422140    0.422091
 0.004545    0.575912   135.128167

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -6.028777   -46.259749   -0.533244
-0.004261   -0.321117   -3.117251
0.14084   -6.028777   -46.259749   -0.533244
-0.004261   -0.098668   -2.820115
0.28168   -6.028777   -46.259749   -0.533244
-0.004261   -0.118031   -3.107722
0.42252   -6.028777   -46.259749   -0.533244
-0.004261   -0.295007   -6.842862
0.56336   -6.028777   -46.259749   -0.533244
-0.004261   -0.471721   -27.728780

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    6.303314    60.230871    0.697085
 0.004338    0.396621   124.538232
0.14084    6.303314    60.230871    0.697085
 0.004338    0.114300   127.859700
0.28168    6.303314    60.230871    0.697085
 0.004338    0.281373   134.577402
0.42252    6.303314    60.230871    0.697085
 0.004338    0.699292   154.502907
0.56336    6.303314    60.230871    0.697085
 0.004338    1.125721   183.249855
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<          MOVING          LOAD          >
                            2527

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -5.646891   -74.253041   -1.024213
-0.004475   -0.594106   -14.028242
0.14084   -5.646891   -74.253041   -1.024213
-0.004475   -0.166118   -13.898703
0.28168   -5.646891   -74.253041   -1.024213
-0.004475   -0.193653   -15.570458
0.42252   -5.646891   -74.253041   -1.024213
-0.004475   -0.485335   -21.116426
0.56336   -5.646891   -74.253041   -1.024213
-0.004475   -0.777931   -43.309454

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    7.287100   104.532180    1.227299
 0.003989    0.693514   118.871928
0.14084    7.287100   104.532180    1.227299
 0.003989    0.184897   110.318330
0.28168    7.287100   104.532180    1.227299
 0.003989    0.452713   124.738903
0.42252    7.287100   104.532180    1.227299
 0.003989    1.129239   154.453413
0.56336    7.287100   104.532180    1.227299
 0.003989    1.811331   182.258848

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -10.771800   -80.844632   -1.631783
-0.002891   -0.928455   -19.555084
0.14084  -10.771800   -80.844632   -1.631783
-0.002891   -0.245415   -20.691505
0.28168  -10.771800   -80.844632   -1.631783
-0.002891   -0.337802   -46.215150
0.42252  -10.771800   -80.844632   -1.631783
-0.002891   -0.852275   -76.402517
0.56336  -10.771800   -80.844632   -1.631783
-0.002891   -1.367537   -117.682275

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    8.385862    96.878500    1.376121
 0.003342    0.776762   106.085920
0.14084    8.385862    96.878500    1.376121
 0.003342    0.204825    94.999149
0.28168    8.385862    96.878500    1.376121
 0.003342    0.494991   104.656277
0.42252    8.385862    96.878500    1.376121
 0.003342    1.238753   126.015338
0.56336    8.385862    96.878500    1.376121
 0.003342    1.987153   152.442609

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000  -10.047951   -76.786341   -1.788951
-0.003190   -1.015312   -41.563636
0.14084  -10.047951   -76.786341   -1.788951
-0.003190   -0.266226   -38.915689
```

```
0.28168   -10.047951   -76.786341   -1.788951
-0.003190   -0.378842   -57.745354
0.42252   -10.047951   -76.786341   -1.788951
-0.003190   -0.955919   -82.291402
0.56336   -10.047951   -76.786341   -1.788951
-0.003190   -1.533413  -116.079054

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.074812   15.508321    0.584412
 8.96E-06   0.328685   13.578801
0.14084    3.074812   15.508321    0.584412
 8.96E-06   0.083595    7.779112
0.28168    3.074812   15.508321    0.584412
 8.96E-06   0.179568    3.400211
0.42252    3.074812   15.508321    0.584412
 8.96E-06   0.455751    3.307028
0.56336    3.074812   15.508321    0.584412
 8.96E-06   0.731984    4.212884
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   2528

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -2.242573   -13.159452   -0.658533
-0.001103   -0.371943   -41.024262
0.14084   -2.242573   -13.159452   -0.658533
-0.001103   -0.095484   -36.142236
0.28168   -2.242573   -13.159452   -0.658533
-0.001103   -0.161308   -32.086463
0.42252   -2.242573   -13.159452   -0.658533
-0.001103   -0.406481   -31.859487
0.56336   -2.242573   -13.159452   -0.658533
-0.001103   -0.651621   -32.123879

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.446222   25.849784    0.910150
 0.000170   0.512914   19.984259
0.14084    7.446222   25.849784    0.910150
 0.000170   0.131445   13.740264
0.28168    7.446222   25.849784    0.910150
 0.000170   0.318771   14.017888
0.42252    7.446222   25.849784    0.910150
 0.000170   0.803734   20.734423
0.56336    7.446222   25.849784    0.910150
 0.000170   1.288882   28.830681

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -2.979165   -33.653204   -1.157130
-0.001838   -0.651164   -59.816427
0.14084   -2.979165   -33.653204   -1.157130
-0.001838   -0.165927   -51.125542
0.28168   -2.979165   -33.653204   -1.157130
-0.001838   -0.250796   -46.463536
0.42252   -2.979165   -33.653204   -1.157130
-0.001838   -0.632671   -46.927151
0.56336   -2.979165   -33.653204   -1.157130
-0.001838   -1.014209   -48.804849

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.908876   25.482366    1.069173
 7.79E-06   0.599187   65.913242
0.14084    8.908876   25.482366    1.069173
 7.79E-06   0.150958   81.762742
0.28168    8.908876   25.482366    1.069173
 7.79E-06   0.390825  102.398283
0.42252    8.908876   25.482366    1.069173
 7.79E-06   0.985201  128.367407
0.56336    8.908876   25.482366    1.069173
 7.79E-06   1.579957  155.266287

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -3.352646   -77.691078   -1.417787
-0.001372   -0.796864   -53.731245
0.14084   -3.352646   -77.691078   -1.417787
-0.001372   -0.202541   -48.736441
0.28168   -3.352646   -77.691078   -1.417787
-0.001372   -0.295654   -46.171253
0.42252   -3.352646   -77.691078   -1.417787
-0.001372   -0.744125   -47.999594
0.56336   -3.352646   -77.691078   -1.417787
-0.001372   -1.192822   -50.558301

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.125290   90.002882    1.352011
 0.003205   0.762745  119.690357
0.14084    8.125290   90.002882    1.352011
 0.003205   0.305407  106.643489
0.28168    8.125290   90.002882    1.352011
 0.003205   0.471828  109.338901
0.42252    8.125290   90.002882    1.352011
 0.003205   1.183390  127.849975
0.56336    8.125290   90.002882    1.352011
 0.003205   1.900316  153.013035
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   2529

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.633025   -74.966669   -1.713418
-0.003543   -0.974114   -48.996126
0.14084   -9.633025   -74.966669   -1.713418
-0.003543   -0.256674   -41.978469
0.28168   -9.633025   -74.966669   -1.713418
-0.003543   -0.373487   -51.297032
0.42252   -9.633025   -74.966669   -1.713418
-0.003543   -0.940511   -70.347143
0.56336   -9.633025   -74.966669   -1.713418
-0.003543   -1.507569  -100.010294

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.603124   154.107805    0.826230
 0.008093   0.465758   123.937818
0.14084    9.603124   154.107805    0.826230
 0.008093   0.127191   126.838685
0.28168    9.603124   154.107805    0.826230
 0.008093   0.310887   133.567994
0.42252    9.603124   154.107805    0.826230
 0.008093   0.775339   155.766449
0.56336    9.603124   154.107805    0.826230
 0.008093   1.249999   187.859399

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -15.666815   -84.889554   -1.134739
-0.006080   -0.653659   -54.395369
0.14084   -15.666815   -84.889554   -1.134739
-0.006080   -0.178418   -55.387886
0.28168   -15.666815   -84.889554   -1.134739
-0.006080   -0.227034   -78.747404
0.42252   -15.666815   -84.889554   -1.134739
-0.006080   -0.573561  -114.840956
0.56336   -15.666815   -84.889554   -1.134739
-0.006080   -0.920022  -172.968388

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.137722   144.874676    1.441612
 0.008207   0.818146   124.538232
0.14084    9.137722   144.874676    1.441612
 0.008207   0.221502   127.859700
0.28168    9.137722   144.874676    1.441612
 0.008207   0.537908   134.577402
0.42252    9.137722   144.874676    1.441612
 0.008207   1.343345   154.502907
0.56336    9.137722   144.874676    1.441612
 0.008207   2.156232   183.249855

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -15.088866   -80.844632   -1.944991
-0.006082   -1.107834   -59.816427
0.14084   -15.088866   -80.844632   -1.944991
-0.006082   -0.293455   -57.559316
0.28168   -15.088866   -80.844632   -1.944991
-0.006082   -0.394596   -78.578853
0.42252   -15.088866   -80.844632   -1.944991
-0.006082   -0.999440  -108.333259
0.56336   -15.088866   -80.844632   -1.944991
-0.006082   -1.604173  -166.538350

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.603124   154.107805    1.441612
 0.008207   0.818146   124.538232
0.14084    9.603124   154.107805    1.441612
 0.008207   0.221502   127.859700
0.28168    9.603124   154.107805    1.441612
 0.008207   0.537908   134.577402
0.42252    9.603124   154.107805    1.441612
 0.008207   1.343345   155.766449
0.56336    9.603124   154.107805    1.441612
 0.008207   2.156232   187.859399
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   2530

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -15.666815   -84.889554   -1.944991
-0.006082   -1.107834   -59.816427
0.14084   -15.666815   -84.889554   -1.944991
-0.006082   -0.293455   -57.559316
0.28168   -15.666815   -84.889554   -1.944991
-0.006082   -0.394596   -78.747404
0.42252   -15.666815   -84.889554   -1.944991
-0.006082   -0.999440  -114.840956
0.56336   -15.666815   -84.889554   -1.944991
-0.006082   -1.604173  -172.968388

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.603124   154.107805    1.441612
 0.008207   0.818146   124.538232
0.14084    9.603124   154.107805    1.441612
 0.008207   0.221502   127.859700
0.28168    9.603124   154.107805    1.441612
 0.008207   0.537908   134.577402
0.42252    9.603124   154.107805    1.441612
 0.008207   1.343345   155.766449
0.56336    9.603124   154.107805    1.441612
 0.008207   2.156232   187.859399

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -15.666815   -84.889554   -1.944991
-0.006082   -1.107834   -59.816427
0.14084   -15.666815   -84.889554   -1.944991
-0.006082   -0.293455   -57.559316
0.28168   -15.666815   -84.889554   -1.944991
-0.006082   -0.394596   -78.747404
0.42252   -15.666815   -84.889554   -1.944991
-0.006082   -0.999440  -114.840956
0.56336   -15.666815   -84.889554   -1.944991
-0.006082   -1.604173  -172.968388

ELEM    230 ================== LENGTH
=     2.976832

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671    0.483861    73.684965    0.459625
 0.001238   0.512915   101.156805
0.57753    0.483861    73.684965    0.459625
 0.001238   0.320236    70.322706
0.71835    0.483861    73.684965    0.459625
 0.001238   0.127558    39.567700
0.85918    0.483861    73.684965    0.459625
 0.001238   0.066227    9.083206
1.00000    0.483861    73.684965    0.459625
 0.001238   0.263785    2.433017

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -10.433771    -9.885171   -0.471082
-0.000153   -0.526149   -20.967591
0.57753   -10.433771    -9.885171   -0.471082
-0.000153   -0.328669   -16.958778
0.71835   -10.433771    -9.885171   -0.471082
-0.000153   -0.131213   -13.325545
0.85918   -10.433771    -9.885171   -0.471082
-0.000153   -0.065094    -9.912795
1.00000   -10.433771    -9.885171   -0.471082
-0.000153   -0.257799   -23.664830

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671    5.027970   104.934294    0.632360
 0.007694   0.704310   194.296311
0.57753    5.027970   104.934294    0.632360
 0.007694   0.439221   153.270085
0.71835    5.027970   104.934294    0.632360
 0.007694   0.174197   126.762194
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   2531

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.85918    5.027970   104.934294    0.632360
 0.007694   0.130529   117.246971
1.00000    5.027970   104.934294    0.632360
 0.007694   0.442397   122.288835

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -13.187703   -93.622339   -0.745966
-0.006309   -0.809706   -50.488442
0.57753   -13.187703   -93.622339   -0.745966
-0.006309   -0.497240   -25.922508
0.71835   -13.187703   -93.622339   -0.745966
-0.006309   -0.206430   -18.844436
0.85918   -13.187703   -93.622339   -0.745966
-0.006309   -0.108822   -13.941862
1.00000   -13.187703   -93.622339   -0.745966
-0.006309   -0.356049   -11.874327

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671    8.431074   94.668774    0.669946
 0.005691   0.747363   184.668858
0.57753    8.431074   94.668774    0.669946
 0.005691   0.466514   148.416363
0.71835    8.431074   94.668774    0.669946
 0.005691   0.185546   122.413122
0.85918    8.431074   94.668774    0.669946
 0.005691   0.138473   110.157292
1.00000    8.431074   94.668774    0.669946
 0.005691   0.507224   120.554978

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -12.221101   -121.581623   -0.881640
-0.004761   -0.972375   -96.040884
0.57753   -12.221101   -121.581623   -0.881640
-0.004761   -0.602947   -54.571439
0.71835   -12.221101   -121.581623   -0.881640
-0.004761   -0.248360   -23.498524
0.85918   -12.221101   -121.581623   -0.881640
-0.004761   -0.107819   -14.068182
1.00000   -12.221101   -121.581623   -0.881640
-0.004761   -0.375948   -11.517546

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671   10.033944   82.644357    0.759005
 0.004726   0.846788  163.040730
0.57753   10.033944   82.644357    0.759005
 0.004726   0.528595  131.018495
0.71835   10.033944   82.644357    0.759005
 0.004726   0.210312  107.774656
0.85918   10.033944   82.644357    0.759005
 0.004726   0.142324   95.968651
1.00000   10.033944   82.644357    0.759005
 0.004726   0.529477  103.055433

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -10.716616   -117.566386   -0.926036
-0.004310   -1.024686   -128.653369
0.57753   -10.716616   -117.566386   -0.926036
-0.004310   -0.636617    -87.543212
0.71835   -10.716616   -117.566386   -0.926036
-0.004310   -0.260879    -55.485977
0.85918   -10.716616   -117.566386   -0.926036
-0.004310   -0.118032    -41.773517
1.00000   -10.716616   -117.566386   -0.926036
-0.004310   -0.425879    -33.364245

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671    5.930618    9.329899    0.151210
0.005506   0.167831   51.156942
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   2532

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.57753    5.930618    9.329899    0.151210
0.005506   0.104443   50.663885
0.71835    5.930618    9.329899    0.151210
0.005506   0.040994   62.778986
0.85918    5.930618    9.329899    0.151210
0.005506   0.061248   91.685164
1.00000    5.930618    9.329899    0.151210
0.005506   0.183307  132.193979

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -0.833594   -101.552464   -0.293354
-0.005499   -0.309717   -45.320135
0.57753   -0.833594   -101.552464   -0.293354
-0.005499   -0.186935   -15.236821
0.71835   -0.833594   -101.552464   -0.293354
-0.005499   -0.082405    -3.848415
0.85918   -0.833594   -101.552464   -0.293354
-0.005499   -0.037274    -3.031504
1.00000   -0.833594   -101.552464   -0.293354
-0.005499   -0.085697    -2.298475

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671   10.437313    9.896346    0.303874
 0.005162   0.582582   55.486675
0.57753   10.437313    9.896346    0.303874
 0.005162   0.211175   54.914160
0.71835   10.437313    9.896346    0.303874
 0.005162   0.083671   66.394422
0.85918   10.437313    9.896346    0.303874
 0.005162   0.039031   93.521216
1.00000   10.437313    9.896346    0.303874
 0.005162   0.309757  136.766810

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -1.439055   -136.820007   -0.526245
-0.005605   -0.574513   -106.057224
0.57753   -1.439055   -136.820007   -0.526245
-0.005605   -0.354088    -59.876762
0.71835   -1.439055   -136.820007   -0.526245
-0.005605   -0.150688    -26.044782
0.85918   -1.439055   -136.820007   -0.526245
-0.005605   -0.057747    -16.655669
1.00000   -1.439055   -136.820007   -0.526245
-0.005605   -0.170885    -12.914282

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671    9.478990   84.180110    0.585827
 0.004454   0.653653  195.626152
0.57753    9.478990   84.180110    0.585827
 0.004454   0.408045  163.207111
0.71835    9.478990   84.180110    0.585827
 0.004454   0.162356  139.588867
0.85918    9.478990   84.180110    0.585827
 0.004454   0.120495  127.933152
1.00000    9.478990   84.180110    0.585827
 0.004454   0.445426  131.485304

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -9.500039   -120.101104   -0.778177
-0.004122   -0.860920   -107.769472
0.57753   -9.500039   -120.101104   -0.778177
-0.004122   -0.534831    -65.428061
0.71835   -9.500039   -120.101104   -0.778177
-0.004122   -0.220824    -32.207274
0.85918   -9.500039   -120.101104   -0.778177
-0.004122   -0.092947    -21.667520
1.00000   -9.500039   -120.101104   -0.778177
-0.004122   -0.328587    -15.946067
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   2533

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671   10.832223   74.779936    0.704841
 0.003727   0.786637   174.916984
0.57753   10.832223   74.779936    0.704841
 0.003727   0.491147   145.958175
0.71835   10.832223   74.779936    0.704841
 0.003727   0.195545   124.361712
0.85918   10.832223   74.779936    0.704841
 0.003727   0.129874   112.757856
1.00000   10.832223   74.779936    0.704841
 0.003727   0.488084   113.784418

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -8.171122   -112.600234   -0.856747
-0.003789   -0.949718   -138.825473
0.57753   -8.171122   -112.600234   -0.856747
-0.003789   -0.590671    -98.358922
0.71835   -8.171122   -112.600234   -0.856747
-0.003789   -0.241717    -65.476346
0.85918   -8.171122   -112.600234   -0.856747
-0.003789   -0.108202    -51.386341
1.00000   -8.171122   -112.600234   -0.856747
-0.003789   -0.395202    -41.679353

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671    4.634174    7.919846    0.344994
7.02E-06   0.385297   20.987124
0.57753    4.634174    7.919846    0.344994
7.02E-06   0.240673   17.677552
0.71835    4.634174    7.919846    0.344994
7.02E-06   0.096040   14.392770
0.85918    4.634174    7.919846    0.344994
7.02E-06   0.046466   11.170353
1.00000    4.634174    7.919846    0.344994
7.02E-06   0.184904    8.002067

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -0.319695   -17.704169   -0.329988
-0.000522   -0.368441   -74.973985
0.57753   -0.319695   -17.704169   -0.329988
-0.000522   -0.230109    -67.750937
0.71835   -0.319695   -17.704169   -0.329988
-0.000522   -0.091796    -60.549937
0.85918   -0.319695   -17.704169   -0.329988
-0.000522   -0.048524    -53.349933
1.00000   -0.319695   -17.704169   -0.329988
-0.000522   -0.193199    -46.272721

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671    8.565399   11.269081    0.550473
 0.000203   0.614388   28.757883
0.57753    8.565399   11.269081    0.550473
 0.000203   0.383632   24.449051
0.71835    8.565399   11.269081    0.550473
 0.000203   0.152845   20.740899
0.85918    8.565399   11.269081    0.550473
 0.000203   0.077050   17.612914
1.00000    8.565399   11.269081    0.550473
 0.000203   0.305106   15.161002

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -1.109444   -45.249791   -0.545596
-0.001144   -0.610445   -131.214762
0.57753   -1.109444   -45.249791   -0.545596
-0.001144   -0.381736   -113.397095
0.71835   -1.109444   -45.249791   -0.545596
-0.001144   -0.153796    -96.541919
0.85918   -1.109444   -45.249791   -0.545596
-0.001144   -0.078347    -80.064805
1.00000   -1.109444   -45.249791   -0.545596
-0.001144   -0.308657    -64.191939
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                   2534

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671   11.861634   10.736734    0.577082
 0.000552   0.644567   47.836276
0.57753   11.861634   10.736734    0.577082
 0.000552   0.402615   44.989636
0.71835   11.861634   10.736734    0.577082
 0.000552   0.160592   43.998036
0.85918   11.861634   10.736734    0.577082
 0.000552   0.097693   44.328339
1.00000   11.861634   10.736734    0.577082
 0.000552   0.394213   65.807012

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -1.090840   -99.126883   -0.709047
-0.001548   -0.795589   -161.692978
0.57753   -1.090840   -99.126883   -0.709047
-0.001548   -0.498364   -121.270336
0.71835   -1.090840   -99.126883   -0.709047
-0.001548   -0.202399    -83.037534
0.85918   -1.090840   -99.126883   -0.709047
-0.001548   -0.081875    -68.211910
1.00000   -1.090840   -99.126883   -0.709047
-0.001548   -0.322999    -57.998183

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43671   12.120216   59.750960    0.680707
 0.003967   0.759681   157.393977
0.57753   12.120216   59.750960    0.680707
 0.003967   0.474310   134.938119
0.71835   12.120216   59.750960    0.680707
 0.003967   0.188855   121.109077
0.85918   12.120216   59.750960    0.680707
 0.003967   0.130099   118.537316
1.00000   12.120216   59.750960    0.680707
 0.003967   0.480261   128.200478

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43671   -5.810041   -118.559021   -0.837734
-0.004405   -0.925832   -150.236402
0.57753   -5.810041   -118.559021   -0.837734
-0.004405   -0.574776   -108.502971
```

```
 0.71835    -5.810041  -118.559021     -0.837734
-0.004405    -0.235647   -75.496742
 0.85918    -5.810041  -118.559021     -0.837734
-0.004405    -0.106167   -61.143250
 1.00000    -5.810041  -118.559021     -0.837734
-0.004405    -0.381677   -51.036692

COMB DL-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    0.434884   71.752340    0.643144
 0.001130   0.718772   96.075753
 0.57753    0.434884   71.752340    0.643144
 0.001130   0.449065   66.332358
 0.71835    0.434884   71.752340    0.643144
 0.001130   0.179202   36.919327
 0.85918    0.434884   71.752340    0.643144
 0.001130   0.127257    8.773018
 1.00000    0.434884   71.752340    0.643144
 0.001130   0.508188    2.758096

COMB DL-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -9.944945  -12.562140    -0.908548
-0.000157   -1.015336  -29.924579
 0.57753   -9.944945  -12.562140    -0.908548
-0.000157   -0.634489  -24.971532
 0.71835   -9.944945  -12.562140    -0.908548
-0.000157   -0.253667  -20.481468
 0.85918   -9.944945  -12.562140    -0.908548
-0.000157   -0.089057  -17.120657
 1.00000   -9.944945  -12.562140    -0.908548
-0.000157   -0.358941  -34.337048
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2535

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    5.494462  100.753015    1.033915
 0.007555    1.151088  191.485782
 0.57753    5.494462  100.753015    1.033915
 0.007555    0.718735  154.509467
 0.71835    5.494462  100.753015    1.033915
 0.007555    0.286066  130.985455
 0.85918    5.494462  100.753015    1.033915
 0.007555    0.212806  123.423874
 1.00000    5.494462  100.753015    1.033915
 0.007555    0.760495  130.308043

COMB DL-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671  -12.237599  -93.816682    -1.309532
-0.006281   -1.437857  -65.711499
 0.57753  -12.237599  -93.816682    -1.309532
-0.006281   -0.891150  -35.644044
 0.71835  -12.237599  -93.816682    -1.309532
-0.006281   -0.362849  -26.752687
 0.85918  -12.237599  -93.816682    -1.309532
-0.006281   -0.172344   -0.636785
 1.00000  -12.237599  -93.816682    -1.309532
-0.006281   -0.598501  -24.539397

COMB DL-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    8.275436   90.793157    1.131581
 0.005752    1.261061  178.160050
 0.57753    8.275436   90.793157    1.131581
 0.005752    0.787427  145.302126
 0.71835    8.275436   90.793157    1.131581
 0.005752    0.313583  123.549038
 0.85918    8.275436   90.793157    1.131581
 0.005752    0.227819  120.220041
 1.00000    8.275436   90.793157    1.131581
 0.005752    0.850701  134.591763

COMB DL-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671  -11.274501  -117.560344    -1.488303
-0.004835   -1.647035   -99.496930
 0.57753  -11.274501  -117.560344    -1.488303
-0.004835   -1.024713   -57.961035
 0.71835  -11.274501  -117.560344    -1.488303
-0.004835   -0.415477   -32.093227
 0.85918  -11.274501  -117.560344    -1.488303
-0.004835   -0.177949   -20.230790
 1.00000  -11.274501  -117.560344    -1.488303
-0.004835   -0.647509   -22.985877

COMB DL-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    9.599950   80.347892    1.248333
 0.004778    1.392020  160.281503
 0.57753    9.599950   80.347892    1.248333
 0.004778    0.869443  130.052460
 0.71835    9.599950   80.347892    1.248333
 0.004778    0.346341  110.865025
 0.85918    9.599950   80.347892    1.248333
 0.004778    0.242178  106.088912
 1.00000    9.599950   80.347892    1.248333
 0.004778    0.921215  116.006196

COMB DL-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -9.959946  -116.255914    -1.622074
-0.004330   -1.800120  -136.698462
 0.57753   -9.959946  -116.255914    -1.622074
-0.004330   -1.121414   -94.640882
 0.71835   -9.959946  -116.255914    -1.622074
-0.004330   -0.453503   -65.764388
 0.85918   -9.959946  -116.255914    -1.622074
-0.004330   -0.191225   -48.945389
 1.00000   -9.959946  -116.255914    -1.622074
-0.004330   -0.710430   -44.153559
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2536

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    5.903352    9.750426    0.358234
 0.004627    0.396767   55.920579
 0.57753    5.903352    9.750426    0.358234
 0.004627    0.247322   57.606503
 0.71835    5.903352    9.750426    0.358234
 0.004627    0.097968   70.893158
 0.85918    5.903352    9.750426    0.358234
 0.004627    0.071895   98.818906
 1.00000    5.903352    9.750426    0.358234
 0.004627    0.227639  132.528981

COMB DL-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -0.801094  -89.546727    -0.372999
-0.004587   -0.399729   -46.206035
 0.57753   -0.801094  -89.546727    -0.372999
-0.004587   -0.244958   -16.867438

 0.71835   -0.801094  -89.546727    -0.372999
-0.004587   -0.103230    -5.080150
 0.85918   -0.801094  -89.546727    -0.372999
-0.004587   -0.069927    -3.941342
 1.00000   -0.801094  -89.546727    -0.372999
-0.004587   -0.214910    -2.845105

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    9.648181   10.927681    0.611788
 0.004470   0.680015   57.877622
 0.57753    9.648181   10.927681    0.611788
 0.004470   0.424492   58.842723
 0.71835    9.648181   10.927681    0.611788
 0.004470   0.168514   70.643630
 0.85918    9.648181   10.927681    0.611788
 0.004470   0.128032  101.781096
 1.00000    9.648181   10.927681    0.611788
 0.004470   0.456077  141.057861

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -1.395803  -122.567990    -0.785582
-0.004787   -0.863278   -99.097922
 0.57753   -1.395803  -122.567990    -0.785582
-0.004787   -0.535445   -55.638586
 0.71835   -1.395803  -122.567990    -0.785582
-0.004787   -0.220031   -27.637947
 0.85918   -1.395803  -122.567990    -0.785582
-0.004787   -0.104913   -17.028120
 1.00000   -1.395803  -122.567990    -0.785582
-0.004787   -0.356952   -12.704236

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    8.711595   81.890892    1.041766
 0.003641    1.161808  196.026472
 0.57753    8.711595   81.890892    1.041766
 0.003641    0.725723  166.080228
 0.71835    8.711595   81.890892    1.041766
 0.003641    0.288722  144.085210
 0.85918    8.711595   81.890892    1.041766
 0.003641    0.193200  136.936557
 1.00000    8.711595   81.890892    1.041766
 0.003641    0.737012  137.450281

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -8.601756  -108.301647    -1.300792
-0.003276   -1.445794  -105.837315
 0.57753   -8.601756  -108.301647    -1.300792
-0.003276   -0.901447   -66.223917
 0.71835   -8.601756  -108.301647    -1.300792
-0.003276   -0.365132   -37.413778
 0.85918   -8.601756  -108.301647    -1.300792
-0.003276   -0.157080   -24.798650
 1.00000   -8.601756  -108.301647    -1.300792
-0.003276   -0.161578   -17.712979
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2537

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   10.161928   74.382354    1.224601
 0.003052    1.366472  180.048685
 0.57753   10.161928   74.382354    1.224601
 0.003052    0.853489  152.506245
 0.71835   10.161928   74.382354    1.224601
 0.003052    0.339922  131.609257
 0.85918   10.161928   74.382354    1.224601
 0.003052    0.214060  123.165763
 1.00000   10.161928   74.382354    1.224601
 0.003052    0.830876  121.176224

COMB DL-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -7.463044  -105.832863    -1.474072
-0.003062   -1.641672  -145.863216
 0.57753   -7.463044  -105.832863    -1.474072
-0.003062   -1.024490  -106.470099
 0.71835   -7.463044  -105.832863    -1.474072
-0.003062   -0.414024   -76.089706
 0.85918   -7.463044  -105.832863    -1.474072
-0.003062   -0.180973   -59.108486
 1.00000   -7.463044  -105.832863    -1.474072
-0.003062   -0.692505   -47.033473

COMB DL-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    4.754990   10.590109    0.593042
 4.11E-06    0.662329   29.516105
 0.57753    4.754990   10.590109    0.593042
 4.11E-06    0.413720   25.330603
 0.71835    4.754990   10.590109    0.593042
 4.11E-06    0.164832   20.686081
 0.85918    4.754990   10.590109    0.593042
 4.11E-06    0.081115   16.305929
 1.00000    4.754990   10.590109    0.593042
 4.11E-06    0.331274   11.982530

COMB DL-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -0.336304  -21.799583    -0.597045
-0.000482   -0.669068   -89.664017
 0.57753   -0.336304  -21.799583    -0.597045
-0.000482   -0.418728   -80.654247
 0.71835   -0.336304  -21.799583    -0.597045
-0.000482   -0.168373   -71.661717
 0.85918   -0.336304  -21.799583    -0.597045
-0.000482   -0.083457   -62.741107
 1.00000   -0.336304  -21.799583    -0.597045
-0.000482   -0.332106   -53.904643

COMB DL-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671    8.176913   14.707850    0.911814
 0.000131    1.018330   39.534963
 0.57753    8.176919   14.707850    0.911814
 0.000131    0.636120   33.679029
 0.71835    8.176919   14.707850    0.911814
 0.000131    0.253665   28.146516
 0.85918    8.176919   14.707850    0.911814
 0.000131    0.142990   23.128211
 1.00000    8.176919   14.707850    0.911814
 0.000131    0.579729   19.001225

COMB DL-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -1.224623  -50.148747    -1.042319
-0.000986   -1.167129  -148.868911
 0.57753   -1.224623  -50.148747    -1.042319
-0.000986   -0.730178  -128.526623
 0.71835   -1.224623  -50.148747    -1.042319
-0.000986   -0.293683  -108.934354
 0.85918   -1.224623  -50.148747    -1.042319
-0.000986   -0.129004   -90.312182
 1.00000   -1.224623  -50.148747    -1.042319
-0.000986   -0.511225   -72.504334
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2538

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   11.083686   13.623607    1.015387
 0.000229    1.133886   54.390747
 0.57753   11.083686   13.623607    1.015387
 0.000229    0.708291   51.369786
 0.71835   11.083686   13.623607    1.015387
 0.000229    0.282187   51.102129
 0.85918   11.083686   13.623607    1.015387
 0.000229    0.160573   59.529220
 1.00000   11.083686   13.623607    1.015387
 0.000229    0.654961   75.603032

COMB DL-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -1.090134  -94.607422    -1.180035
-0.001067   -1.323227  -167.660946
 0.57753   -1.090134  -94.607422    -1.180035
-0.001067   -0.828537  -130.426049
 0.71835   -1.090134  -94.607422    -1.180035
-0.001067   -0.333851   -95.718033
 0.85918   -1.090134  -94.607422    -1.180035
-0.001067   -0.142133   -78.308990
 1.00000   -1.090134  -94.607422    -1.180035
-0.001067   -0.568500   -65.308124

COMB DL-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   11.447384   61.366477    1.236612
 0.002993    1.379546  168.379654
 0.57753   11.447384   61.366477    1.236612
 0.002993    0.861679  146.553065
 0.71835   11.447384   61.366477    1.236612
 0.002993    0.343227  131.864196
 0.85918   11.447384   61.366477    1.236612
 0.002993    0.205267  130.026381
 1.00000   11.447384   61.366477    1.236612
 0.002993    0.795422  134.487776

COMB DL-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   -5.352690  -109.519468    -1.409456
-0.003350   -1.568652  -159.437353
 0.57753   -5.352690  -109.519468    -1.409456
-0.003350   -0.978645   -118.870189
 0.71835   -5.352690  -109.519468    -1.409456
-0.003350   -0.395977   -88.022009
 0.85918   -5.352690  -109.519468    -1.409456
-0.003350   -0.184227   -71.205289
 1.00000   -5.352690  -109.519468    -1.409456
-0.003350   -0.700436   -58.264665

COMB     DB -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   12.120216  104.934294    0.759005
 0.007694    0.846788  195.086152
 0.57753   12.120216  104.934294    0.759005
 0.007694    0.528595  163.207111
 0.71835   12.120216  104.934294    0.759005
 0.007694    0.210312  139.588867
 0.85918   12.120216  104.934294    0.759005
 0.007694    0.142324  127.933152
 1.00000   12.120216  104.934294    0.759005
 0.007694    0.529477  136.766810

COMB     DB -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671  -13.187703  -136.820007    -0.926036
-0.006309   -1.024686  -161.692978
 0.57753  -13.187703  -136.820007    -0.926036
-0.006309   -0.636617  -121.270336
 0.71835  -13.187703  -136.820007    -0.926036
-0.006309   -0.260879   -96.541919
 0.85918  -13.187703  -136.820007    -0.926036
-0.006309   -0.118032   -80.094805
 1.00000  -13.187703  -136.820007    -0.926036
-0.006309   -0.425879   -64.191939
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2539

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB     DL -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   11.447384  100.753015    1.248333
 0.007555    1.392020  196.026472
 0.57753   11.447384  100.753015    1.248333
 0.007555    0.869443  166.080228
 0.71835   11.447384  100.753015    1.248333
 0.007555    0.346341  144.085210
 0.85918   11.447384  100.753015    1.248333
 0.007555    0.242178  136.936557
 1.00000   11.447384  100.753015    1.248333
 0.007555    0.921215  141.057861

COMB     DL -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671  -12.237599  -122.567990    -1.622074
-0.006281   -1.800120  -167.660946
 0.57753  -12.237599  -122.567990    -1.622074
-0.006281   -1.121414  -130.426049
 0.71835  -12.237599  -122.567990    -1.622074
-0.006281   -0.453503  -108.934354
 0.85918  -12.237599  -122.567990    -1.622074
-0.006281   -0.191225   -90.312182
 1.00000  -12.237599  -122.567990    -1.622074
-0.006281   -0.710430   -72.504334

COMB     CAR -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   12.120216  104.934294    1.248333
 0.007694    1.392020  196.026472
 0.57753   12.120216  104.934294    1.248333
 0.007694    0.869443  166.080228
 0.71835   12.120216  104.934294    1.248333
 0.007694    0.346341  144.085210
 0.85918   12.120216  104.934294    1.248333
 0.007694    0.242178  136.936557
 1.00000   12.120216  104.934294    1.248333
 0.007694    0.921215  141.057861

COMB     CAR -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671  -13.187703  -136.820007    -1.622074
-0.006309   -1.800120  -167.660946
 0.57753  -13.187703  -136.820007    -1.622074
-0.006309   -1.121414  -130.426049
 0.71835  -13.187703  -136.820007    -1.622074
-0.006309   -0.453503  -108.934354
 0.85918  -13.187703  -136.820007    -1.622074
-0.006309   -0.191225   -90.312182
 1.00000  -13.187703  -136.820007    -1.622074
-0.006309   -0.710430   -72.504334

COMB  DESIGN -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43671   12.120216  104.934294    1.248333
 0.007694    1.392020  196.026472
 0.57753   12.120216  104.934294    1.248333
 0.007694    0.869443  166.080228
 0.71835   12.120216  104.934294    1.248333
 0.007694    0.346341  144.085210
 0.85918   12.120216  104.934294    1.248333
 0.007694    0.242178  136.936557
 1.00000   12.120216  104.934294    1.248333
 0.007694    0.921215  141.057861

COMB  DESIGN -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43671  -13.187703  -136.820007    -1.622074
-0.006309   -1.800120  -167.660946
 0.57753  -13.187703  -136.820007    -1.622074
-0.006309   -1.121414  -130.426049
 0.71835  -13.187703  -136.820007    -1.622074
-0.006309   -0.453503  -108.934354
 0.85918  -13.187703  -136.820007    -1.622074
-0.006309   -0.191225   -90.312182
 1.00000  -13.187703  -136.820007    -1.622074
-0.006309   -0.710430   -72.504334
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2540

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      231 ================== LENGTH =    2.977849

COMB DB-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.491187   72.892376    0.465481
 0.001133   0.262011    2.492373
 0.14086    0.491187   72.892376    0.465481
 0.001133   0.066729    2.799164
 0.28172    0.491187   72.892376    0.465481
 0.001133   0.131864    4.674120
 0.42258    0.491187   72.892376    0.465481
 0.001133   0.332748    8.355451
 0.56344    0.491187   72.892376    0.465481
 0.001133   0.533656   12.297017

COMB DB-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -10.365890   -9.711841    -0.478966
-7.31E-06   -0.269978   -23.699743
 0.14086   -10.365890   -9.711841    -0.478966
-7.31E-06   -0.069002   -53.839288
 0.28172   -10.365890   -9.711841    -0.478966
-7.31E-06   -0.128485   -84.334582
 0.42258   -10.365890   -9.711841    -0.478966
-7.31E-06   -0.323743   -114.837761
 0.56344   -10.365890   -9.711841    -0.478966
-7.31E-06   -0.518995   -145.369475

COMB DB-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    2.264423  169.906172    0.633934
 0.007757   0.356956  122.658099
 0.14086    2.264423  169.906172    0.633934
 0.007757   0.111396   97.617964
 0.28172    2.264423  169.906172    0.633934
 0.007757   0.208038   75.171081
 0.42258    2.264423  169.906172    0.633934
 0.007757   0.502803   71.419287
 0.56344    2.264423  169.906172    0.633934
 0.007757   0.820320   81.459558

COMB DB-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -17.317785  -32.329128    -0.757409
-0.006139   -0.451641   -11.914313
 0.14086   -17.317785  -32.329128    -0.757409
-0.006139   -0.134744   -50.263500
 0.28172   -17.317785  -32.329128    -0.757409
-0.006139   -0.174917   -89.171825
 0.42258   -17.317785  -32.329128    -0.757409
-0.006139   -0.440771   -130.229090
 0.56344   -17.317785  -32.329128    -0.757409
-0.006139   -0.706681   -192.932310

COMB DB-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    6.657945  138.619025    0.672334
 0.005687   0.377592  120.773665
 0.14086    6.657945  138.619025    0.672334
 0.005687   0.109499  127.170078
 0.28172    6.657945  138.619025    0.672334
 0.005687   0.253182  136.088699
 0.42258    6.657945  138.619025    0.672334
 0.005687   0.622739  158.020061
 0.56344    6.657945  138.619025    0.672334
 0.005687   1.007862  189.364267

COMB DB-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -14.996104  -80.616454    -0.918486
-0.004323   -0.533998   -11.593646
 0.14086   -14.996104  -80.616454    -0.918486
-0.004323   -0.149210   -47.553799
 0.28172   -14.996104  -80.616454    -0.918486
-0.004323   -0.186281   -83.891610
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2541

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.42258   -14.996104  -80.616454    -0.918486
-0.004323   -0.468306  -121.628868
 0.56344   -14.996104  -80.616454    -0.918486
-0.004323   -0.750389  -174.054878

COMB DB-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    8.602741  119.201012    0.762512
 0.004772   0.428415  103.244460
 0.14086    8.602741  119.201012    0.762512
 0.004772   0.119949  107.322374
 0.28172    8.602741  119.201012    0.762512
 0.004772   0.265873  116.499745
 0.42258    8.602741  119.201012    0.762512
 0.004772   0.657011  137.321915
 0.56344    8.602741  119.201012    0.762512
 0.004772   1.061045  168.143147

COMB DB-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -13.023108  -83.892981    -0.963501
-0.004136   -0.556241   -33.404507
 0.14086   -13.023108  -83.892981    -0.963501
-0.004136   -0.152464   -57.129956
 0.28172   -13.023108  -83.892981    -0.963501
-0.004136   -0.211144   -81.628658
 0.42258   -13.023108  -83.892981    -0.963501
```

```
-0.004136   -0.531002  -108.772223
0.56344   -13.023108   -83.892981    -0.963501
-0.004136   -0.850899  -149.214482

COMB DB-G2-1 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    3.666723   64.659469    0.145610
 0.005310   0.081405  132.490036
0.14086    3.666723   64.659469    0.145610
 0.005310   0.037326  124.846012
0.28172    3.666723   64.659469    0.145610
 0.005310   0.084807  117.346990
0.42258    3.666723   64.659469    0.145610
 0.005310   0.194715  124.740000
0.56344    3.666723   64.659469    0.145610
 0.005310   0.323674  143.366492

COMB DB-G2-1 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -4.358664  -50.855670   -0.307809
-0.005133   -0.193743   -2.291865
0.14086   -4.358664  -50.855670   -0.307809
-0.005133   -0.065353   -1.676821
0.28172   -4.358664  -50.855670   -0.307809
-0.005133   -0.040682   -1.440869
0.42258   -4.358664  -50.855670   -0.307809
-0.005133   -0.101753   -2.965194
0.56344   -4.358664  -50.855670   -0.307809
-0.005133   -0.162854   -22.580209

COMB DB-G2-2 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.413340   61.428214    0.298803
 0.005157   0.167017  137.026604
0.14086    8.413340   61.428214    0.298803
 0.005157   0.057474  143.412253
0.28172    8.413340   61.428214    0.298803
 0.005157   0.156360  153.438653
0.42258    8.413340   61.428214    0.298803
 0.005157   0.375709  177.641010
0.56344    8.413340   61.428214    0.298803
 0.005157   0.612862  212.792762

COMB DB-G2-2 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -4.710395  -90.332134   -0.565759
-0.005209   -0.337328  -12.912379
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2542

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.14086   -4.710395  -90.332134   -0.565759
-0.005209   -0.100657   -9.243144
0.28172   -4.710395  -90.332134   -0.565759
-0.005209   -0.083499   -6.576884
0.42258   -4.710395  -90.332134   -0.565759
-0.005209   -0.208835   -7.546601
0.56344   -4.710395  -90.332134   -0.565759
-0.005209   -0.334241   -26.643020

COMB DB-G2-3 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.073439  119.705092    0.587408
 0.004644   0.329748  131.628812
0.14086    8.073439  119.705092    0.587408
 0.004644   0.094506  124.190818
0.28172    8.073439  119.705092    0.587408
 0.004644   0.226373  137.255934
0.42258    8.073439  119.705092    0.587408
 0.004644   0.557710  163.170340
0.56344    8.073439  119.705092    0.587408
 0.004644   0.901666  197.370095

COMB DB-G2-3 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -11.740535  -87.352742   -0.820264
-0.003874   -0.475280   -15.933663
0.14086  -11.740535  -87.352742   -0.820264
-0.003874   -0.131616   -18.018110
0.28172  -11.740535  -87.352742   -0.820264
-0.003874   -0.162857   -47.339527
0.42258  -11.740535  -87.352742   -0.820264
-0.003874   -0.409269   -79.634152
0.56344  -11.740535  -87.352742   -0.820264
-0.003874   -0.655729  -125.062249

COMB DB-G2-4 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.692448  104.634032    0.708835
 0.003876   0.398294  113.910891
0.14086    9.692448  104.634032    0.708835
 0.003876   0.110272  105.728706
0.28172    9.692448  104.634032    0.708835
 0.003876   0.246650  114.750547
0.42258    9.692448  104.634032    0.708835
 0.003876   0.610649  135.685009
0.56344    9.692448  104.634032    0.708835
 0.003876   0.985207  164.105385

COMB DB-G2-4 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.057523  -85.307323   -0.893184
-0.003781   -0.403978   -41.680702
0.14086  -10.057523  -85.307323   -0.893184
-0.003781   -0.139590   -38.415200
0.28172  -10.057523  -85.307323   -0.893184
-0.003781   -0.196200   -57.732519
0.42258  -10.057523  -85.307323   -0.893184
-0.003781   -0.493574   -79.228612
0.56344  -10.057523  -85.307323   -0.893184
-0.003781   -0.790957  -111.533997

COMB DB-G3-1 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    4.687973    8.131532    0.349804
1.51E-05    0.197029    8.011904
0.14086    4.687973    8.131532    0.349804
1.51E-05    0.050297    4.976769
0.28172    4.687973    8.131532    0.349804
1.51E-05    0.092631    2.484070
0.42258    4.687973    8.131532    0.349804
1.51E-05    0.233017    2.230845
0.56344    4.687973    8.131532    0.349804
1.51E-05    0.373423    2.348133
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2543

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -0.313742  -17.890670   -0.334731
-0.000856   -0.188206   -46.290244
0.14086   -0.313742  -17.890670   -0.334731
-0.000856   -0.047715   -39.287687
0.28172   -0.313742  -17.890670   -0.334731
-0.000856   -0.096422   -32.438222
0.42258   -0.313742  -17.890670   -0.334731
-0.000856   -0.243160   -25.650287
0.56344   -0.313742  -17.890670   -0.334731
-0.000856   -0.389890   -18.889753

COMB DB-G3-2 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.584993   13.634702    0.555422
 0.000365   0.312504   15.185449
0.14086    8.584993   13.634702    0.555422
 0.000365   0.080076   13.510077
0.28172    8.584993   13.634702    0.555422
 0.000365   0.156770   17.660155
0.42258    8.584993   13.634702    0.555422
 0.000365   0.393565   25.569237
0.56344    8.584993   13.634702    0.555422
 0.000365   0.631059   34.712089

COMB DB-G3-2 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -1.230974  -44.054635   -0.566200
-0.001666   -0.319053   -64.223114
0.14086   -1.230974  -44.054635   -0.566200
-0.001666   -0.081511   -51.621716
0.28172   -1.230974  -44.054635   -0.566200
-0.001666   -0.153431   -39.987477
0.42258   -1.230974  -44.054635   -0.566200
-0.001666   -0.386431   -30.934158
0.56344   -1.230974  -44.054635   -0.566200
-0.001666   -0.619402   -24.228232

COMB DB-G3-3 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.922417   14.299312    0.579814
 0.000516   0.325181   65.802875
0.14086   11.922417   14.299312    0.579814
 0.000516   0.082737   69.516650
0.28172   11.922417   14.299312    0.579814
 0.000516   0.208179   116.810955
0.42258   11.922417   14.299312    0.579814
 0.000516   0.521828   147.901641
0.56344   11.922417   14.299312    0.579814
 0.000516   0.836712   180.235303

COMB DB-G3-3 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -1.278361  -97.452302   -0.750728
-0.001564   -0.423012   -58.015761
0.14086   -1.278361  -97.452302   -0.750728
-0.001564   -0.107980   -47.724209
0.28172   -1.278361  -97.452302   -0.750728
-0.001564   -0.161018   -38.047134
0.42258   -1.278361  -97.452302   -0.750728
-0.001564   -0.404282   -30.190902
0.56344   -1.278361  -97.452302   -0.750728
-0.001564   -0.647556   -24.570046

COMB DB-G3-4 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   10.756470   95.377373    0.684219
 0.004155   0.384520  128.369309
0.14086   10.756470   95.377373    0.684219
 0.004155   0.108464  116.455697
0.28172   10.756470   95.377373    0.684219
 0.004155   0.239896  119.842563
0.42258   10.756470   95.377373    0.684219
 0.004155   0.591599  136.955817
0.56344   10.756470   95.377373    0.684219
 0.004155   0.955762  163.936849
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2544

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -8.049535  -86.203943   -0.868440
-0.004459   -0.502015   -51.044099
0.14086   -8.049535  -86.203943   -0.868440
-0.004459   -0.138058   -40.977797
0.28172   -8.049535  -86.203943   -0.868440
-0.004459   -0.189352   -47.693538
0.42258   -8.049535  -86.203943   -0.868440
-0.004459   -0.476368   -61.138206
0.56344   -8.049535  -86.203943   -0.868440
-0.004459   -0.763422   -87.288054

COMB DL-G1-1 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.448301   71.063745    0.661136
 0.001072   0.372059    2.752829
0.14086    0.448301   71.063745    0.661136
 0.001072   0.094413    3.004010
0.28172    0.448301   71.063745    0.661136
 0.001072   0.252147    4.517187
0.42258    0.448301   71.063745    0.661136
 0.001072   0.632990    9.158222
0.56344    0.448301   71.063745    0.661136
 0.001072   1.013754   13.977888

COMB DL-G1-1 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -9.914864  -12.361632   -0.907856
-4.31E-06   -0.509502   -34.356180
0.14086   -9.914864  -12.361632   -0.907856
-4.31E-06   -0.128694   -60.358677
0.28172   -9.914864  -12.361632   -0.907856
-4.31E-06   -0.181475   -86.957814
0.42258   -9.914864  -12.361632   -0.907856
-4.31E-06   -0.459111   -116.111004
0.56344   -9.914864  -12.361632   -0.907856
-4.31E-06   -0.736504   -145.489644

COMB DL-G1-2 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.327196  163.148908    1.048248
 0.007701   0.614277  130.346941
0.14086    2.327196  163.148908    1.048248
 0.007701   0.179991  104.264035
0.28172    2.327196  163.148908    1.048248
 0.007701   0.362552   80.500625
0.42258    2.327196  163.148908    1.048248
 0.007701   0.892045   76.493486
0.56344    2.327196  163.148908    1.048248
 0.007701   1.442178   86.659257

COMB DL-G1-2 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -16.145971  -33.986483   -1.315552
-0.006182   -0.767663   -24.547570
0.14086  -16.145971  -33.986483   -1.315552
-0.006182   -0.217081   -55.935604
0.28172  -16.145971  -33.986483   -1.315552
-0.006182   -0.287309   -88.835258
0.42258  -16.145971  -33.986483   -1.315552
-0.006182   -0.725783  -126.949561
0.56344  -16.145971  -33.986483   -1.315552
-0.006182   -1.164239  -191.564937

COMB DL-G1-3 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    6.097126  135.030182    1.142641
 0.005834   0.659097  134.592875
0.14086    6.097126  135.030182    1.142641
 0.005834   0.183046  136.216835
0.28172    6.097126  135.030182    1.142641
 0.005834   0.416804  140.096903
0.42258    6.097126  135.030182    1.142641
 0.005834   1.030683  158.573158
0.56344    6.097126  135.030182    1.142641
 0.005834   1.659273  187.224134
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2545

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -14.027166  -75.704294   -1.501542
-0.004555   -0.861912   -22.991640
0.14086  -14.027166  -75.704294   -1.501542
-0.004555   -0.233104   -52.456935
0.28172  -14.027166  -75.704294   -1.501542
-0.004555   -0.315039   -83.165754
0.42258  -14.027166  -75.704294   -1.501542
-0.004555   -0.793693  -118.098468
0.56344  -14.027166  -75.704294   -1.501542
-0.004555   -1.271908  -171.876575

COMB DL-G1-4 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.814704  117.188554    1.259413
 0.004887   0.721470  116.020319
0.14086    7.814704  117.188554    1.259413
 0.004887   0.195912  115.789658
0.28172    7.814704  117.188554    1.259413
 0.004887   0.455260  119.813825
0.42258    7.814704  117.188554    1.259413
 0.004887   1.130127  137.779639
0.56344    7.814704  117.188554    1.259413
 0.004887   1.817186  166.683635

COMB DL-G1-4 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.242934  -81.812072   -1.640245
-0.004259   -0.935906   -44.174929
0.14086  -12.242934  -81.812072   -1.640245
-0.004259   -0.248763   -61.827886
0.28172  -12.242934  -81.812072   -1.640245
-0.004259   -0.347856   -81.719842
0.42258  -12.242934  -81.812072   -1.640245
-0.004259   -0.875645   -106.669972
0.56344  -12.242934  -81.812072   -1.640245
-0.004259   -1.403040   -149.271677

COMB DL-G2-1 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    3.725334   54.168147    0.351278
 0.004504   0.513733  132.640024
0.14086    3.725334   54.168147    0.351278
 0.004504   0.070294  128.048579
0.28172    3.725334   54.168147    0.351278
 0.004504   0.104897  123.838445
0.42258    3.725334   54.168147    0.351278
 0.004504   0.249467  131.462424
0.56344    3.725334   54.168147    0.351278
 0.004504   0.408555  148.918248

COMB DL-G2-1 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -3.566592  -48.266921   -0.382148
-0.004331   -0.234370   -2.825679
0.14086   -3.566592  -48.266921   -0.382148
-0.004331   -0.074816   -1.858786
0.28172   -3.566592  -48.266921   -0.382148
-0.004331   -0.096617   -1.344064
0.42258   -3.566592  -48.266921   -0.382148
-0.004331   -0.143704   -3.334449
0.56344   -3.566592  -48.266921   -0.382148
-0.004331   -0.389333   -22.571868

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.611489   53.492259    0.603904
 0.004500   0.354236  141.061182
0.14086    7.611489   53.492259    0.603904
 0.004500   0.104141  147.988828
0.28172    7.611489   53.492259    0.603904
 0.004500   0.222774  158.473750
0.42258    7.611489   53.492259    0.603904
 0.004500   0.543679  181.077264
0.56344    7.611489   53.492259    0.603904
 0.004500   0.878556  213.320227
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2546

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -4.024360  -83.664476   -0.801012
-0.004524   -0.466885   -12.692947
0.14086   -4.024360  -83.664476   -0.801012
-0.004524   -0.131762    -8.820604
0.28172   -4.024360  -83.664476   -0.801012
-0.004524   -0.167845    -7.023219
0.42258   -4.024360  -83.664476   -0.801012
-0.004524   -0.420215    -7.697330
0.56344   -4.024360  -83.664476   -0.801012
-0.004524   -0.672478   -27.001480

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.421895  108.557745    1.046829
 0.003867   0.597854  137.406285
0.14086    7.421895  108.557745    1.046829
 0.003867   0.160669  127.659361
0.28172    7.421895  108.557745    1.046829
 0.003867   0.367177  140.847623
0.42258    7.421895  108.557745    1.046829
 0.003867   0.910615  166.246291
0.56344    7.421895  108.557745    1.046829
 0.003867   1.463141  198.522553

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.253897  -83.129148   -1.318927
-0.003132   -0.750805   -17.685769
0.14086  -10.253897  -83.129148   -1.318927
-0.003132   -0.198497   -17.278143
0.28172  -10.253897  -83.129148   -1.318927
-0.003132   -0.289087   -42.537082
0.42258  -10.253897  -83.129148   -1.318927
-0.003132   -0.728136   -72.595969
0.56344  -10.253897  -83.129148   -1.318927
-0.003132   -1.166622   -115.374838

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.101859   96.938724    1.231165
 0.003230   0.699557  121.151307
0.14086    9.101859   96.938724    1.231165
 0.003230   0.184684  110.321801
0.28172    9.101859   96.938724    1.231165
 0.003230   0.417239  118.236543
0.42258    9.101859   96.938724    1.231165
 0.003230   1.038582  138.327598
0.56344    9.101859   96.938724    1.231165
 0.003230   1.667554  165.163845

COMB DL-G2-4 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -8.852453  -84.922737   -1.500805
-0.003133   -0.850892   -47.028462
0.14086   -8.852453  -84.922737   -1.500805
-0.003133   -0.222045   -40.421186
0.28172   -8.852453  -84.922737   -1.500805
-0.003133   -0.340589   -54.831937
0.42258   -8.852453  -84.922737   -1.500805
-0.003133   -0.856948   -74.801287
0.56344   -8.852453  -84.922737   -1.500805
-0.003133   -1.372874   -105.905474

COMB DL-G3-1 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    4.786681   10.839866    0.595661
 1.14E-05   0.334045   12.001022
0.14086    4.786681   10.839866    0.595661
 1.14E-05   0.084232    7.809018
0.28172    4.786681   10.839866    0.595661
 1.14E-05   0.171682    3.933894
0.42258    4.786681   10.839866    0.595661
 1.14E-05   0.432037    2.883946
0.56344    4.786681   10.839866    0.595661
 1.14E-05   0.692375    3.155281
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2547

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -0.330194  -22.085946   -0.620367
-0.000811   -0.347819   -53.929326
0.14086   -0.330194  -22.085946   -0.620367
-0.000811   -0.087561   -45.039880
0.28172   -0.330194  -22.085946   -0.620367
-0.000811   -0.165332   -36.368664
0.42258   -0.330194  -22.085946   -0.620367
-0.000811   -0.415414   -29.805325
0.56344   -0.330194  -22.085946   -0.620367
-0.000811   -0.665347   -24.422227

COMB DL-G3-2 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.170752   16.379352    0.915496
 0.000282   0.513783   19.030308
0.14086    8.170752   16.379352    0.915496
 0.000282   0.130025   16.703452
0.28172    8.170752   16.379352    0.915496
 0.000282   0.297485   19.607671
0.42258    8.170752   16.379352    0.915496
 0.000282   0.746679   27.525408
0.56344    8.170752   16.379352    0.915496
 0.000282   1.196310   37.429513

COMB DL-G3-2 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -1.292218  -49.683439   -1.071820
-0.001475   -0.600763   -72.546121
0.14086   -1.292218  -49.683439   -1.071820
-0.001475   -0.151325   -57.135485
0.28172   -1.292218  -49.683439   -1.071820
-0.001475   -0.254490   -44.633232
0.42258   -1.292218  -49.683439   -1.071820
-0.001475   -0.638679   -35.938584
0.56344   -1.292218  -49.683439   -1.071820
-0.001475   -1.022685   -30.290147

COMB DL-G3-3 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.219366   13.949467    1.014538
 7.28E-05   0.567555   75.588730
0.14086   11.219366   13.949467    1.014538
 7.28E-05   0.141932   96.661961
0.28172   11.219366   13.949467    1.014538
 7.28E-05   0.291918  121.095025
0.42258   11.219366   13.949467    1.014538
 7.28E-05   0.849011  149.950190
0.56344   11.219366   13.949467    1.014538
 7.28E-05   1.358944  180.058596

COMB DL-G3-3 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -1.070045  -95.908512   -1.215547
-0.001176   -0.679553   -65.325554
0.14086   -1.070045  -95.908512   -1.215547
-0.001176   -0.169540   -52.617507
0.28172   -1.070045  -95.908512   -1.215547
-0.001176   -0.282548   -41.716180
0.42258   -1.070045  -95.908512   -1.215547
-0.001176   -0.708553   -34.064370
0.56344   -1.070045  -95.908512   -1.215547
-0.001176   -1.133902   -28.433046

COMB DL-G3-4 -------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   10.293220   86.018396    1.238390
 0.003194   0.703710  134.472292
0.14086   10.293220   86.018396    1.238390
 0.003194   0.186090  122.950895
0.28172   10.293220   86.018396    1.238390
 0.003194   0.399863  125.835946
0.42258   10.293220   86.018396    1.238390
 0.003194   0.994607  143.323873
0.56344   10.293220   86.018396    1.238390
 0.003194   1.597589  168.915700
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2548

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 -------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -6.863338  -86.847781   -1.438975
-0.003505   -0.817020   -58.267409
0.14086   -6.863338  -86.847781   -1.438975
-0.003505   -0.213907   -45.760004
0.28172   -6.863338  -86.847781   -1.438975
-0.003505   -0.343200   -48.211767
0.42258   -6.863338  -86.847781   -1.438975
-0.003505   -0.862450   -59.974239
0.56344   -6.863338  -86.847781   -1.438975
-0.003505   -1.381297   -84.468960

COMB      DB -------------------- MAX
```

```
REL DIST          P          V2          V3
   T          M2          M3
0.00000   11.922417   169.906172    0.762512
0.007757    0.428415    137.026604
0.14086   11.922417   169.906172    0.762512
0.007757    0.119949    143.412253
0.28172   11.922417   169.906172    0.762512
0.007757    0.265873    153.438653
0.42258   11.922417   169.906172    0.762512
0.007757    0.657011    177.641010
0.56344   11.922417   169.906172    0.762512
0.007757    1.061045    212.792762

COMB      DB  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000  -17.317785   -97.452302   -0.963501
-0.006139    -0.556241    -64.223114
0.14086  -17.317785   -97.452302   -0.963501
-0.006139    -0.152464    -57.129956
0.28172  -17.317785   -97.452302   -0.963501
-0.006139    -0.211144    -89.171825
0.42258  -17.317785   -97.452302   -0.963501
-0.006139    -0.531002   -130.229090
0.56344  -17.317785   -97.452302   -0.963501
-0.006139    -0.850899   -192.932310

COMB      DL  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000   11.219366   163.148908    1.259413
0.007701    0.721470    141.061182
0.14086   11.219366   163.148908    1.259413
0.007701    0.195912    147.988828
0.28172   11.219366   163.148908    1.259413
0.007701    0.455260    158.473732
0.42258   11.219366   163.148908    1.259413
0.007701    1.130127    181.077264
0.56344   11.219366   163.148908    1.259413
0.007701    1.817186    213.320227

COMB      DL  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000  -16.145971   -95.908512   -1.640245
-0.006182    -0.935906    -72.546121
0.14086  -16.145971   -95.908512   -1.640245
-0.006182    -0.248763    -61.827886
0.28172  -16.145971   -95.908512   -1.640245
-0.006182    -0.347856    -88.835258
0.42258  -16.145971   -95.908512   -1.640245
-0.006182    -0.875645   -126.949561
0.56344  -16.145971   -95.908512   -1.640245
-0.006182    -1.403040   -191.564937

COMB      CAR  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000   11.922417   169.906172    1.259413
0.007757    0.721470    141.061182
0.14086   11.922417   169.906172    1.259413
0.007757    0.195912    147.988828
0.28172   11.922417   169.906172    1.259413
0.007757    0.455260    158.473732
0.42258   11.922417   169.906172    1.259413
0.007757    1.130127    181.077264
0.56344   11.922417   169.906172    1.259413
0.007757    1.817186    213.320227
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2549

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000  -17.317785   -97.452302   -1.640245
-0.006182    -0.935906    -72.546121
0.14086  -17.317785   -97.452302   -1.640245
-0.006182    -0.248763    -61.827886
0.28172  -17.317785   -97.452302   -1.640245
-0.006182    -0.347856    -89.171825
0.42258  -17.317785   -97.452302   -1.640245
-0.006182    -0.875645   -130.229090
0.56344  -17.317785   -97.452302   -1.640245
-0.006182    -1.403040   -192.932310

COMB    DESIGN  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000   11.922417   169.906172    1.259413
0.007757    0.721470    141.061182
0.14086   11.922417   169.906172    1.259413
0.007757    0.195912    147.988828
0.28172   11.922417   169.906172    1.259413
0.007757    0.455260    158.473732
0.42258   11.922417   169.906172    1.259413
0.007757    1.130127    181.077264
0.56344   11.922417   169.906172    1.259413
0.007757    1.817186    213.320227

COMB    DESIGN  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000  -17.317785   -97.452302   -1.640245
-0.006182    -0.935906    -72.546121
0.14086  -17.317785   -97.452302   -1.640245
-0.006182    -0.248763    -61.827886
0.28172  -17.317785   -97.452302   -1.640245
-0.006182    -0.347856    -89.171825
0.42258  -17.317785   -97.452302   -1.640245
-0.006182    -0.875645   -130.229090
0.56344  -17.317785   -97.452302   -1.640245
-0.006182    -1.403040   -192.932310

ELEM      232  ================  LENGTH
=     2.977485

COMB DB-G1-1  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    0.239321    76.179683    0.423344
0.000896    0.472436    105.492363
0.57746    0.239321    76.179683    0.423344
0.000896    0.294898    73.609858
0.71831    0.239321    76.179683    0.423344
0.000896    0.117342    41.818728
0.85915    0.239321    76.179683    0.423344
0.000896    0.062102    10.343637
1.00000    0.239321    76.179683    0.423344
0.000896    0.247665    2.297967

COMB DB-G1-1  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -11.116594    -5.574416   -0.442458
-0.000561    -0.494558    -11.879666
0.57746   -11.116594    -5.574416   -0.442458
-0.000561    -0.309004    -9.719995
0.71831   -11.116594    -5.574416   -0.442458
-0.000561    -0.123482    -7.918188
0.85915   -11.116594    -5.574416   -0.442458
-0.000561    -0.060191    -6.285860
1.00000   -11.116594    -5.574416   -0.442458
-0.000561    -0.237726    -23.484411

COMB DB-G1-2  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    4.537618   107.993157    0.593013
0.007287    0.659244    201.078451
0.57746    4.537618   107.993157    0.593013
0.007287    0.410552    160.927909
0.71831    4.537618   107.993157    0.593013
0.007287    0.161868    133.497412
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2550

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
   T          M2          M3
0.85915    4.537618   107.993157    0.593013
0.007287    0.114090    123.252854
1.00000    4.537618   107.993157    0.593013
0.007287    0.376766    125.615237

COMB DB-G1-2  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -14.024963   -88.231111   -0.626281
-0.006942    -0.676680    -37.641648
0.57746   -14.024963   -88.231111   -0.626281
-0.006942    -0.414091    -16.116109
0.71831   -14.024963   -88.231111   -0.626281
-0.006942    -0.173783    -11.732877
0.85915   -14.024963   -88.231111   -0.626281
-0.006942    -0.107301    -9.169009
1.00000   -14.024963   -88.231111   -0.626281
-0.006942    -0.344521    -10.533895

COMB DB-G1-3  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    8.013230    97.150254    0.640133
0.005484    0.712684    188.752627
0.57746    8.013230    97.150254    0.640133
0.005484    0.444226    153.073124
0.71831    8.013230    97.150254    0.640133
0.005484    0.175777    126.807285
0.85915    8.013230    97.150254    0.640133
0.005484    0.114429    114.970221
1.00000    8.013230    97.150254    0.640133
0.005484    0.399586    126.074767

COMB DB-G1-3  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -12.930009   -117.201972   -0.679859
-0.005273    -0.742800    -81.739913
0.57746   -12.930009   -117.201972   -0.679859
-0.005273    -0.457728    -42.270021
0.71831   -12.930009   -117.201972   -0.679859
-0.005273    -0.168358    -13.581677
0.85915   -12.930009   -117.201972   -0.679859
-0.005273    -0.106589    -9.476558
1.00000   -12.930009   -117.201972   -0.679859
-0.005273    -0.367272    -9.453002

COMB DB-G1-4  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    9.927483    82.895276    0.743155
0.004586    0.828165    162.563575
0.57746    9.927483    82.895276    0.743155
0.004586    0.516500    132.011377
0.71831    9.927483    82.895276    0.743155
0.004586    0.204844    109.273013
0.85915    9.927483    82.895276    0.743155
0.004586    0.125880    98.567721
1.00000    9.927483    82.895276    0.743155
0.004586    0.454713    106.907708

COMB DB-G1-4  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -11.435913   -115.138807   -0.783917
-0.004590    -0.861879    -119.690706
0.57746   -11.435913   -115.138807   -0.783917
-0.004590    -0.533162    -79.855895
0.71831   -11.435913   -115.138807   -0.783917
-0.004590    -0.217724    -49.561264
0.85915   -11.435913   -115.138807   -0.783917
-0.004590    -0.118335    -39.586997
1.00000   -11.435913   -115.138807   -0.783917
-0.004590    -0.423559    -32.791231

COMB DB-G2-1  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    5.742704    9.213676    0.137651
0.005536    0.151437    51.045865
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2551

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
   T          M2          M3
0.57746    5.742704    9.213676    0.137651
0.005536    0.093699    52.575186
0.71831    5.742704    9.213676    0.137651
0.005536    0.035948    65.496023
0.85915    5.742704    9.213676    0.137651
0.005536    0.042641    95.839997
1.00000    5.742704    9.213676    0.137651
0.005536    0.108406    137.140943

COMB DB-G2-1  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -0.822023   -101.265745   -0.157162
-0.005533    -0.157733    -41.039267
0.57746   -0.822023   -101.265745   -0.157162
-0.005533    -0.091910    -11.551767
0.71831   -0.822023   -101.265745   -0.157162
-0.005533    -0.044759    -2.996643
0.85915   -0.822023   -101.265745   -0.157162
-0.005533    -0.039131    -2.370000
1.00000   -0.822023   -101.265745   -0.157162
-0.005533    -0.087007    -1.758213

COMB DB-G2-2  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   10.377334    8.887692    0.317842
0.005366    0.352637    52.289217
0.57746   10.377334    8.887692    0.317842
0.005366    0.219333    54.293783
0.71831   10.377334    8.887692    0.317842
0.005366    0.086064    67.023635
0.85915   10.377334    8.887692    0.317842
0.005366    0.069791    96.200309
1.00000   10.377334    8.887692    0.317842
0.005366    0.213252    143.045301

COMB DB-G2-2  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -1.560514   -137.406069   -0.341974
-0.005524    -0.362607   -101.148198
0.57746   -1.560514   -137.406069   -0.341974
-0.005524    -0.219238    -54.920319
0.71831   -1.560514   -137.406069   -0.341974
-0.005524    -0.094297    -21.865521
0.85915   -1.560514   -137.406069   -0.341974
-0.005524    -0.063229    -15.791232
1.00000   -1.560514   -137.406069   -0.341974
-0.005524    -0.187561    -11.561601

COMB DB-G2-3  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    9.510166    85.322024    0.564686
0.004410    0.628849    198.265510
0.57746    9.510166    85.322024    0.564686
0.004410    0.392028    166.999070
0.71831    9.510166    85.322024    0.564686
0.004410    0.155185    143.616071
0.85915    9.510166    85.322024    0.564686
0.004410    0.099378    132.905767
1.00000    9.510166    85.322024    0.564686
0.004410    0.350308    138.765846

COMB DB-G2-3  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -10.111115   -117.641728   -0.598052
-0.004323    -0.654461    -97.278529
0.57746   -10.111115   -117.641728   -0.598052
-0.004323    -0.403698    -56.087001
0.71831   -10.111115   -117.641728   -0.598052
-0.004323    -0.166464    -25.015081
0.85915   -10.111115   -117.641728   -0.598052
-0.004323    -0.092884    -18.499520
1.00000   -10.111115   -117.641728   -0.598052
-0.004323    -0.323361    -13.509099
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2552

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   11.181345    73.635133    0.699795
0.003685    0.780238    172.353540
0.57746   11.181345    73.635133    0.699795
0.003685    0.486759    145.246870
0.71831   11.181345    73.635133    0.699795
0.003685    0.193232    124.740641
0.85915   11.181345    73.635133    0.699795
0.003685    0.116329    114.793816
1.00000   11.181345    73.635133    0.699795
0.003685    0.425136    118.683993

COMB DB-G2-4  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -8.607445   -111.801040   -0.736074
-0.003785    -0.810902    -134.740525
0.57746   -8.607445   -111.801040   -0.736074
-0.003785    -0.502244    -94.782191
0.71831   -8.607445   -111.801040   -0.736074
-0.003785    -0.204633    -63.005205
0.85915   -8.607445   -111.801040   -0.736074
-0.003785    -0.109601    -51.891562
1.00000   -8.607445   -111.801040   -0.736074
-0.003785    -0.397811    -42.201362

COMB DB-G3-1  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    5.198393    4.468998    0.362836
1.19E-05    0.405634    12.622154
0.57746    5.198393    4.468998    0.362836
1.19E-05    0.253472    10.986536
0.71831    5.198393    4.468998    0.362836
1.19E-05    0.101300    9.134802
0.85915    5.198393    4.468998    0.362836
1.19E-05    0.052942    7.323595
1.00000    5.198393    4.468998    0.362836
1.19E-05    0.210774    5.591427

COMB DB-G3-1  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -0.085721   -19.560442   -0.376223
-0.000255    -0.420335    -83.562042
0.57746   -0.085721   -19.560442   -0.376223
-0.000255    -0.262559    -75.422762
0.71831   -0.085721   -19.560442   -0.376223
-0.000255    -0.104801    -67.322600
0.85915   -0.085721   -19.560442   -0.376223
-0.000255    -0.050851    -59.222113
1.00000   -0.085721   -19.560442   -0.376223
-0.000255    -0.203026    -51.148297

COMB DB-G3-2  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    9.314429    6.163133    0.579162
0.000310    0.647008    17.727296
0.57746    9.314429    6.163133    0.579162
0.000310    0.404127    15.301147
0.71831    9.314429    6.163133    0.579162
0.000310    0.161231    13.657799
0.85915    9.314429    6.163133    0.579162
0.000310    0.085524    12.603417
1.00000    9.314429    6.163133    0.579162
0.000310    0.337801    12.418914

COMB DB-G3-2  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -1.102590   -48.030923   -0.601193
-0.000738    -0.670768    -141.121644
0.57746   -1.102590   -48.030923   -0.601193
-0.000738    -0.418655    -122.026482
0.71831   -1.102590   -48.030923   -0.601193
-0.000738    -0.167235    -103.933139
0.85915   -1.102590   -48.030923   -0.601193
-0.000738    -0.082183    -86.011194
1.00000   -1.102590   -48.030923   -0.601193
-0.000738    -0.324797    -69.127140
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2553

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   12.452569    6.215176    0.603185
0.000762    0.673313    36.174118
0.57746   12.452569    6.215176    0.603185
0.000762    0.420352    35.835488
0.71831   12.452569    6.215176    0.603185
0.000762    0.167392    37.412953
0.85915   12.452569    6.215176    0.603185
0.000762    0.090111    44.217454
1.00000   12.452569    6.215176    0.603185
0.000762    0.352764    67.586511

COMB DB-G3-3  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -0.901124   -101.790981   -0.626083
-0.001182    -0.697631    -166.655478
0.57746   -0.901124   -101.790981   -0.626083
-0.001182    -0.435088    -125.016343
0.71831   -0.901124   -101.790981   -0.626083
-0.001182    -0.172559    -86.856650
0.85915   -0.901124   -101.790981   -0.626083
-0.001182    -0.086534    -73.614162
1.00000   -0.901124   -101.790981   -0.626083
-0.001182    -0.338974    -61.794209

COMB DB-G3-4  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   12.637608    57.241804    0.688152
0.004000    0.767254    151.815716
0.57746   12.637608    57.241804    0.688152
0.004000    0.478680    131.949349
0.71831   12.637608    57.241804    0.688152
0.004000    0.190076    119.676699
0.85915   12.637608    57.241804    0.688152
0.004000    0.116983    119.242880
1.00000   12.637608    57.241804    0.688152
0.004000    0.420867    132.439376

COMB DB-G3-4  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -5.954110   -118.976256   -0.724359
-0.004175    -0.795771    -150.514305
0.57746   -5.954110   -118.976256   -0.724359
-0.004175    -0.492030    -108.646892
0.71831   -5.954110   -118.976256   -0.724359
-0.004175    -0.201297    -76.173675
0.85915   -5.954110   -118.976256   -0.724359
-0.004175    -0.109611    -64.107105
1.00000   -5.954110   -118.976256   -0.724359
-0.004175    -0.392044    -53.418799

COMB DL-G1-1  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    0.303257    75.127152    0.536506
0.000755    0.597968    101.586848
0.57746    0.303257    75.127152    0.536506
0.000755    0.372670    70.283020
0.71831    0.303257    75.127152    0.536506
0.000755    0.147592    39.250576
0.85915    0.303257    75.127152    0.536506
0.000755    0.106205    9.614385
1.00000    0.303257    75.127152    0.536506
0.000755    0.414850    2.616506

COMB DL-G1-1  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -11.405403    -8.094960   -0.736938
-0.000459    -0.821465    -21.319118
0.57746   -11.405403    -8.094960   -0.736938
-0.000459    -0.512432    -18.092017
0.71831   -11.405403    -8.094960   -0.736938
-0.000459    -0.203537    -15.353977
0.85915   -11.405403    -8.094960   -0.736938
-0.000459    -0.076582    -13.773750
1.00000   -11.405403    -8.094960   -0.736938
-0.000459    -0.301345    -34.132262
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2554

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    5.622096    105.108859    0.870691
0.007126    0.961302    203.274958
0.57746    5.622096    105.108859    0.870691
0.007126    0.597063    165.071050
0.71831    5.622096    105.108859    0.870691
0.007126    0.236936    140.420139
0.85915    5.622096    105.108859    0.870691
0.007126    0.172138    130.564953
1.00000    5.622096    105.108859    0.870691
0.007126    0.585884    134.977023

COMB DL-G1-2  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -13.813872    -87.891832   -0.990425
-0.006787    -1.076620    -53.114567
0.57746   -13.813872    -87.891532   -0.990425
-0.006787    -0.661398    -27.014490
0.71831   -13.813872    -87.891532   -0.990425
-0.006787    -0.271205    -20.853013
0.85915   -13.813872    -87.891532   -0.990425
-0.006787    -0.154216    -16.707813
1.00000   -13.813872    -87.891532   -0.990425
-0.006787    -0.517862    -23.231701

COMB DL-G1-3  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    8.348151    94.124874    0.999910
0.005469    1.109614    187.410214
0.57746    8.348151    94.124874    0.999910
0.005469    0.691049    154.270367
0.71831    8.348151    94.124874    0.999910
0.005469    0.272530    132.670587
0.85915    8.348151    94.124874    0.999910
0.005469    0.180891    128.931877
1.00000    8.348151    94.124874    0.999910
0.005469    0.652263    142.092058

COMB DL-G1-3  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -12.719245   -113.224956   -1.126494
-0.005241    -1.236735    -86.438639
0.57746   -12.719245   -113.224956   -1.126494
-0.005241    -0.764595    -48.262570
0.71831   -12.719245   -113.224956   -1.126494
-0.005241    -0.310117    -24.943732
0.85915   -12.719245   -113.224956   -1.126494
-0.005241    -0.162801    -16.796182
1.00000   -12.719245   -113.224956   -1.126494
-0.005241    -0.581177    -21.179605

COMB DL-G1-4  ------------------  MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    9.986312    81.510295    1.149402
0.004570    1.278289    165.101849
0.57746    9.986312    81.510295    1.149402
0.004570    0.796899    136.197712
0.71831    9.986312    81.510295    1.149402
0.004570    0.317833    116.905847
0.85915    9.986312    81.510295    1.149402
0.004570    0.200185    112.413339
1.00000    9.986312    81.510295    1.149402
0.004570    0.744098    121.948611

COMB DL-G1-4  ------------------  MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -11.351879   -114.287713   -1.298688
-0.004518    -1.433318    -130.317402
0.57746   -11.351879   -114.287713   -1.298688
-0.004518    -0.888832    -90.372247
0.71831   -11.351879   -114.287713   -1.298688
-0.004518    -0.358898    -62.920916
0.85915   -11.351879   -114.287713   -1.298688
-0.004518    -0.179759    -48.452018
1.00000   -11.351879   -114.287713   -1.298688
-0.004518    -0.660981    -44.211720
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          2555

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1  ------------------  MAX
```

```
REL DIST          P          V2          V3
     T          M2          M3
0.43661    6.237015    9.787107    0.304699
0.004641    0.333248   60.027654
0.57746    6.237015    9.787107    0.304699
0.004641    0.206366   62.561000
0.71831    6.237015    9.787107    0.304699
0.004641    0.082322   77.096932
0.85915    6.237015    9.787107    0.304699
0.004641    0.050258  105.310380
1.00000    6.237015    9.787107    0.304699
0.004641    0.137974  139.359490

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -0.834075  -88.935671   -0.211269
-0.004634   -0.021771  -42.223181
0.57746   -0.834075  -88.935671   -0.211269
-0.004634   -0.128719  -14.494108
0.71831   -0.834075  -88.935671   -0.211269
-0.004634   -0.057668   -4.675073
0.85915   -0.834075  -88.935671   -0.211269
-0.004634   -0.065278   -3.640574
1.00000   -0.834075  -88.935671   -0.211269
-0.004634   -0.191785   -2.631589

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661    9.984490    9.865241    0.600108
0.004610    0.664835   59.209250
0.57746    9.984490    9.865241    0.600108
0.004610    0.414042   61.816524
0.71831    9.984490    9.865241    0.600108
0.004610    0.165940   76.131423
0.85915    9.984490    9.865241    0.600108
0.004610    0.100666  108.899961
1.00000    9.984490    9.865241    0.600108
0.004610    0.342389  149.650317

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -1.692069 -123.518339   -0.579364
-0.004721   -0.628214   -95.298569
0.57746   -1.692069 -123.518339   -0.579364
-0.004721   -0.385497   -53.020787
0.71831   -1.692069 -123.518339   -0.579364
-0.004721   -0.159249   -25.577335
0.85915   -1.692069 -123.518339   -0.579364
-0.004721   -0.104618   -16.913885
1.00000   -1.692069 -123.518339   -0.579364
-0.004721   -0.355605   -11.925721

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661    9.144308   83.528331    0.939538
 0.003523    1.046055  203.900282
0.57746    9.144308   83.528331    0.939538
 0.003523    0.652391  174.255382
0.71831    9.144308   83.528331    0.939538
 0.003523    0.260646  153.176982
0.85915    9.144308   83.528331    0.939538
 0.003523    0.149720  146.596489
1.00000    9.144308   83.528331    0.939538
 0.003523    0.558392  147.381835

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -9.598470 -106.206780   -0.976634
-0.003409   -1.078683   -97.190139
0.57746   -9.598470 -106.206780   -0.976634
-0.003409   -0.669266   -59.659417
0.71831   -9.598470 -106.206780   -0.976634
-0.003409   -0.270755   -32.605890
0.85915   -9.598470 -106.206780   -0.976634
-0.003409   -0.144546   -23.011349
1.00000   -9.598470 -106.206780   -0.976634
-0.003409   -0.538808   -16.553474
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2556

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661   11.030038   73.875668    1.151944
 0.002947    1.284587  182.751098
0.57746   11.030038   73.875668    1.151944
 0.002947    0.801763  156.257931
0.71831   11.030038   73.875668    1.151944
 0.002947    0.320433  136.076692
0.85915   11.030038   73.875668    1.151944
 0.002947    0.175554  129.764449
1.00000   11.030038   73.875668    1.151944
 0.002947    0.671852  128.794600

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -8.194578 -106.058513   -1.184979
-0.003000   -1.314450  -145.381802
0.57746   -8.194578 -106.058513   -1.184979
-0.003000   -0.817556  -106.896699
0.71831   -8.194578 -106.058513   -1.184979
-0.003000   -0.329663   -77.163206
0.85915   -8.194578 -106.058513   -1.184979
-0.003000   -0.171869   -61.879320
1.00000   -8.194578 -106.058513   -1.184979
-0.003000   -0.654918   -49.451055

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661    5.878503    7.493972    0.615360
8.98E-06    0.688290   22.788100
0.57746    5.878503    7.493972    0.615360
8.98E-06    0.430181   19.652689
0.71831    5.878503    7.493972    0.615360
8.98E-06    0.171996   16.528292
0.85915    5.878503    7.493972    0.615360
8.98E-06    0.078302   13.436681
1.00000    5.878503    7.493972    0.615360
8.98E-06    0.318746   10.430076

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -0.106480  -24.991362   -0.573041
-0.000215   -0.641773  -101.656020
0.57746   -0.106480  -24.991362   -0.573041
-0.000215   -0.401394   -91.245762
0.71831   -0.106480  -24.991362   -0.573041
-0.000215   -0.160776   -80.860566
0.85915   -0.106480  -24.991362   -0.573041
-0.000215   -0.085154   -70.513222
1.00000   -0.106480  -24.991362   -0.573041
-0.000215   -0.343818   -60.240725

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661    9.478640    9.975582    0.944791
0.000239    1.056550   30.061288
0.57746    9.478640    9.975582    0.944791
0.000239    0.660256   26.121120
0.71831    9.478640    9.975582    0.944791
0.000239    0.264059   22.535859
0.85915    9.478640    9.975582    0.944791
0.000239    0.135161   19.514967
1.00000    9.478640    9.975582    0.944791
0.000239    0.546885   17.731830

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -1.384790   -54.814565   -0.980236
-0.000579   -1.096314  -163.179360
0.57746   -1.384790   -54.814565   -0.980236
-0.000579   -0.685060  -140.780654
0.71831   -1.384790   -54.814565   -0.980236
-0.000579   -0.274029  -119.171858
0.85915   -1.384790   -54.814565   -0.980236
-0.000579   -0.132422   -98.479677
1.00000   -1.384790   -54.814565   -0.980236
-0.000579   -0.528818   -78.852495
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2557

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661   12.275068    9.322547    1.039012
 0.000382    1.162447   47.197090
0.57746   12.275068    9.322547    1.039012
 0.000382    0.726641   46.728508
0.71831   12.275068    9.322547    1.039012
 0.000382    0.290560   49.584845
0.85915   12.275068    9.322547    1.039012
 0.000382    0.138680   61.047573
1.00000   12.275068    9.322547    1.039012
 0.000382    0.564303   80.017479

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -1.036210   -99.218839   -1.014221
-0.000706   -1.134806  -177.769249
0.57746   -1.036210   -99.218839   -1.014221
-0.000706   -0.709696  -139.104729
0.71831   -1.036210   -99.218839   -1.014221
-0.000706   -0.284345  -103.115835
0.85915   -1.036210   -99.218839   -1.014221
-0.000706   -0.144717   -86.102453
1.00000   -1.036210   -99.218839   -1.014221
-0.000706   -0.581036   -70.881023

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661   12.757733   59.317238    1.194962
 0.002976    1.332437  168.285409
0.57746   12.757733   59.317238    1.194962
 0.002976    0.831592  148.143246
0.71831   12.757733   59.317238    1.194962
 0.002976    0.332325  135.656886
0.85915   12.757733   59.317238    1.194962
 0.002976    0.170839  135.623644
1.00000   12.757733   59.317238    1.194962
 0.002976    0.653608  141.739771

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -5.717773  -111.381167   -1.151689
-0.003111   -1.276813  -163.984486
0.57746   -5.717773  -111.381167   -1.151689
-0.003111   -0.794077  -123.601157
0.71831   -5.717773  -111.381167   -1.151689
-0.003111   -0.321001   -92.682211
0.85915   -5.717773  -111.381167   -1.151689
-0.003111   -0.178983   -76.691718
1.00000   -5.717773  -111.381167   -1.151689
-0.003111   -0.680014   -62.629484

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661   12.637608  107.993157    0.743155
 0.007287    1.828165  201.078451
0.57746   12.637608  107.993157    0.743155
 0.007287    0.516500  166.999070
0.71831   12.637608  107.993157    0.743155
 0.007287    0.204844  143.616071
0.85915   12.637608  107.993157    0.743155
 0.007287    0.125880  132.067767
1.00000   12.637608  107.993157    0.743155
 0.007287    0.454713  143.045301

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -14.024963  -137.406069   -0.783917
-0.006942   -0.861879  -166.655478
0.57746   -14.024963  -137.406069   -0.783917
-0.006942   -0.533162  -125.016343
0.71831   -14.024963  -137.406069   -0.783917
-0.006942   -0.217724  -103.933139
0.85915   -14.024963  -137.406069   -0.783917
-0.006942   -0.118335   -86.011194
1.00000   -14.024963  -137.406069   -0.783917
-0.006942   -0.423559   -69.127140
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2558

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661   12.757733   105.108859    1.194962
 0.007126    1.332437  203.900282
0.57746   12.757733   105.108859    1.194962
 0.007126    0.831592  174.255382
0.71831   12.757733   105.108859    1.194962
 0.007126    0.332325  153.176982
0.85915   12.757733   105.108859    1.194962
 0.007126    0.200185  146.596489
1.00000   12.757733   105.108859    1.194962
 0.007126    0.744098  149.650317

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -13.813872  -123.518339   -1.298688
-0.006787   -1.433318  -177.769249
0.57746   -13.813872  -123.518339   -1.298688
-0.006787   -0.888832  -140.780654
0.71831   -13.813872  -123.518339   -1.298688
-0.006787   -0.358898  -119.171858
0.85915   -13.813872  -123.518339   -1.298688
-0.006787   -0.179759   -98.479677
1.00000   -13.813872  -123.518339   -1.298688
-0.006787   -0.680014   -78.852495

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661   12.757733   107.993157    1.194962
 0.007287    1.332437  203.900282
0.57746   12.757733   107.993157    1.194962
 0.007287    0.831592  174.255382
0.71831   12.757733   107.993157    1.194962
 0.007287    0.332325  153.176982
0.85915   12.757733   107.993157    1.194962
 0.007287    0.200185  146.596489
1.00000   12.757733   107.993157    1.194962
 0.007287    0.744098  149.650317

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -14.024963  -137.406069   -1.298688
-0.006942   -1.433318  -177.769249
0.57746   -14.024963  -137.406069   -1.298688
-0.006942   -0.888832  -140.780654
0.71831   -14.024963  -137.406069   -1.298688
-0.006942   -0.358898  -119.171858
0.85915   -14.024963  -137.406069   -1.298688
-0.006942   -0.179759   -98.479677
1.00000   -14.024963  -137.406069   -1.298688
-0.006942   -0.680014   -78.852495

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43661   12.757733   107.993157    1.194962
 0.007287    1.332437  203.900282
0.57746   12.757733   107.993157    1.194962
 0.007287    0.831592  174.255382
0.71831   12.757733   107.993157    1.194962
 0.007287    0.332325  153.176982
0.85915   12.757733   107.993157    1.194962
 0.007287    0.200185  146.596489
1.00000   12.757733   107.993157    1.194962
 0.007287    0.744098  149.650317

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43661   -14.024963  -137.406069   -1.298688
-0.006942   -1.433318  -177.769249
0.57746   -14.024963  -137.406069   -1.298688
-0.006942   -0.888832  -140.780654
0.71831   -14.024963  -137.406069   -1.298688
-0.006942   -0.358898  -119.171858
0.85915   -14.024963  -137.406069   -1.298688
-0.006942   -0.179759   -98.479677
1.00000   -14.024963  -137.406069   -1.298688
-0.006942   -0.680014   -78.852495
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2559

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      233 ================= LENGTH
=     2.977499

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.244061   75.574009    0.427652
 0.000785    0.240995    2.295275
0.14085    0.244061   75.574009    0.427652
 0.000785    0.061655    2.818779
0.28170    0.244061   75.574009    0.427652
 0.000785    0.124076    3.486261
0.42254    0.244061   75.574009    0.427652
 0.000785    0.313906    4.856183
0.56339    0.244061   75.574009    0.427652
 0.000785    0.503761    6.989929

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -11.055791   -5.546579   -0.452710
-0.000380   -0.255663   -23.523693
0.14085   -11.055791   -5.546579   -0.452710
-0.000380   -0.065725   -54.887882
0.28170   -11.055791   -5.546579   -0.452710
-0.000380   -0.117706   -86.490246
0.42254   -11.055791   -5.546579   -0.452710
-0.000380   -0.297069  -118.098889
0.56339   -11.055791   -5.546579   -0.452710
-0.000380   -0.476416  -149.739061

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    2.065666  173.514908    0.576351
 0.007261    0.348035  125.982852
0.14085    2.065666  173.514908    0.576351
 0.007261    0.109364  100.872828
0.28170    2.065666  173.514908    0.576351
 0.007261    0.175252   76.295807
0.42254    2.065666  173.514908    0.576351
 0.007261    0.421246   70.054424
0.56339    2.065666  173.514908    0.576351
 0.007261    0.690363   76.629295

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -18.243885   -27.161207   -0.642205
-0.006679   -0.389497   -10.577989
0.14085   -18.243885   -27.161207   -0.642205
-0.006679   -0.120065   -50.565818
0.28170   -18.243885   -27.161207   -0.642205
-0.006679   -0.161500   -90.833200
0.42254   -18.243885   -27.161207   -0.642205
-0.006679   -0.403125  -132.202081
0.56339   -18.243885   -27.161207   -0.642205
-0.006679   -0.644823  -195.586818

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    6.438057  141.523860    0.630708
 0.005300    0.370961  126.288389
0.14085    6.438057  141.523860    0.630708
 0.005300    0.108448  133.111964
0.28170    6.438057  141.523860    0.630708
 0.005300    0.192905  140.289881
0.42254    6.438057  141.523860    0.630708
 0.005300    0.473562  160.081115
0.56339    6.438057  141.523860    0.630708
 0.005300    0.770014  188.683338

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -15.765792  -76.290306   -0.707228
-0.004800   -0.418103   -9.490196
0.14085   -15.765792  -76.290306   -0.707228
-0.004800   -0.121360   -46.407122
0.28170   -15.765792  -76.290306   -0.707228
-0.004800   -0.175850   -83.497877
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2560

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
0.42254   -15.765792  -76.290306   -0.707228
-0.004800   -0.440299  -121.285864
0.56339   -15.765792  -76.290306   -0.707228
-0.004800   -0.704801  -174.009498

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    8.661676  119.719700    0.737277
 0.004626    0.428106  107.090904
0.14085    8.661676  119.719700    0.737277
 0.004626    0.120556  112.126735
0.28170    8.661676  119.719700    0.737277
 0.004626    0.221601  120.051108
0.42254    8.661676  119.719700    0.737277
 0.004626    0.547472  139.354747
0.56339    8.661676  119.719700    0.737277
 0.004626    0.886412  168.676487

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -13.788605   -81.463354   -0.808482
-0.004379   -0.471242   -32.838124
0.14085   -13.788605   -81.463354   -0.808482
-0.004379   -0.132013   -56.884140
0.28170   -13.788605   -81.463354   -0.808482
-0.004379   -0.205054   -81.752131
0.42254   -13.788605   -81.463354   -0.808482
-0.004379   -0.514206  -108.308181
0.56339   -13.788605   -81.463354   -0.808482
-0.004379   -0.823405  -148.080528

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    3.726546   64.821195    0.116958
 0.005258    0.084658  137.432866
0.14085    3.726546   64.821195    0.116958
 0.005258    0.038050  129.793507
0.28170    3.726546   64.821195    0.116958
 0.005258    0.047198  122.329007
0.42254    3.726546   64.821195    0.116958
 0.005258    0.101089  129.346902
0.56339    3.726546   64.821195    0.116958
 0.005258    0.174322  146.793753

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -4.413742   -50.554566   -0.175039
-0.005190   -0.121447   -1.751842
0.14085   -4.413742   -50.554566   -0.175039
-0.005190   -0.048033   -1.234670
0.28170   -4.413742   -50.554566   -0.175039
-0.005190   -0.035194   -0.862945
0.42254   -4.413742   -50.554566   -0.175039
-0.005190   -0.084220   -1.376540
0.56339   -4.413742   -50.554566   -0.175039
-0.005190   -0.133285   -20.287541

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    8.584018   60.640521    0.300689
 0.005213    0.186865  143.297541
0.14085    8.584018   60.640521    0.300689
 0.005213    0.063042  150.063274
0.28170    8.584018   60.640521    0.300689
 0.005213    0.098742  160.163168
0.42254    8.584018   60.640521    0.300689
 0.005213    0.232513  184.647095
0.56339    8.584018   60.640521    0.300689
 0.005213    0.384349  219.207519

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -4.893026   -90.765823   -0.362438
-0.005200   -0.225633   -11.561350
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2561

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
0.14085   -4.893026   -90.765823   -0.362438
-0.005200   -0.073550   -7.449204
0.28170   -4.893026   -90.765823   -0.362438
-0.005200   -0.085729   -4.399857
0.42254   -4.893026   -90.765823   -0.362438
-0.005200   -0.211744   -3.972496
0.56339   -4.893026   -90.765823   -0.362438
-0.005200   -0.337645   -20.936164

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    8.274347  121.137909    0.557229
 0.004449    0.326450  138.898382
0.14085    8.274347  121.137909    0.557229
 0.004449    0.094333  130.093398
0.28170    8.274347  121.137909    0.557229
 0.004449    0.170812  142.171412
0.42254    8.274347  121.137909    0.557229
 0.004449    0.420333  166.709521
0.56339    8.274347  121.137909    0.557229
 0.004449    0.682577  199.264476

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -12.399372   -84.870141   -0.625595
-0.004147   -0.368267   -13.501262
0.14085   -12.399372   -84.870141   -0.625595
-0.004147   -0.105813   -15.203470
0.28170   -12.399372   -84.870141   -0.625595
-0.004147   -0.155282   -45.149483
0.42254   -12.399372   -84.870141   -0.625595
-0.004147   -0.388956   -77.029910
0.56339   -12.399372   -84.870141   -0.625595
-0.004147   -0.622642  -121.821633

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   10.185802  103.651046    0.696708
 0.003860    0.402903  118.800356
0.14085   10.185802  103.651046    0.696708
 0.003860    0.112016  110.418849
0.28170   10.185802  103.651046    0.696708
 0.003860    0.208457  119.110675
0.42254   10.185802  103.651046    0.696708
 0.003860    0.516243  138.542103
0.56339   10.185802  103.651046    0.696708
 0.003860    0.834683  165.902149

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -10.525657   -84.464314   -0.759556
-0.003822   -0.440644   -42.208134
0.14085   -10.525657   -84.464314   -0.759556
-0.003822   -0.121981   -38.045144
0.28170   -10.525657   -84.464314   -0.759556
-0.003822   -0.193475   -57.259883
0.42254   -10.525657   -84.464314   -0.759556
-0.003822   -0.485580   -77.844625
0.56339   -10.525657   -84.464314   -0.759556
-0.003822   -0.777861  -109.097828

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    5.256402    4.553955    0.368648
0.000154    0.207659    5.599187
0.14085    5.256402    4.553955    0.368648
0.000154    0.053036    3.994961
0.28170    5.256402    4.553955    0.368648
0.000154    0.104999    2.642683
0.42254    5.256402    4.553955    0.368648
```

0.000154 0.263629 2.229958
0.56339 5.256402 4.553955 0.368648
0.000154 0.422278 1.933870
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2562

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.086208 -19.660779 -0.378302
-0.000540 -0.212325 -51.169150
0.14085 -0.086208 -19.660779 -0.378302
-0.000540 -0.053543 -43.254234
0.28170 -0.086208 -19.660779 -0.378302
-0.000540 -0.101562 -35.438054
0.42254 -0.086208 -19.660779 -0.378302
-0.000540 -0.256173 -27.654994
0.56339 -0.086208 -19.660779 -0.378302
-0.000540 -0.410773 -19.898153

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.347877 8.321121 0.584923
0.000700 0.329796 12.438629
0.14085 9.347877 8.321121 0.584923
0.000700 0.084484 13.080339
0.28170 9.347877 8.321121 0.584923
0.000700 0.167559 18.674117
0.42254 9.347877 8.321121 0.584923
0.000700 0.419790 26.907075
0.56339 9.347877 8.321121 0.584923
0.000700 0.672744 36.163804

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.233186 -46.662186 -0.603206
-0.001216 -0.339200 -69.163771
0.14085 -1.233186 -46.662186 -0.603206
-0.001216 -0.086145 -55.039272
0.28170 -1.233186 -46.662186 -0.603206
-0.001216 -0.161619 -42.325662
0.42254 -1.233186 -46.662186 -0.603206
-0.001216 -0.406931 -31.513229
0.56339 -1.233186 -46.662186 -0.603206
-0.001216 -0.652230 -22.514166

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.533038 9.626902 0.604932
0.000775 0.340938 67.574228
0.14085 12.533038 9.626902 0.604932
0.000775 0.087282 93.282449
0.28170 12.533038 9.626902 0.604932
0.000775 0.179390 121.963933
0.42254 12.533038 9.626902 0.604932
0.000775 0.450804 153.174650
0.56339 12.533038 9.626902 0.604932
0.000775 0.723433 185.488477

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.096654 -99.852356 -0.650111
-0.001192 -0.367256 -61.817726
0.14085 -1.096654 -99.852356 -0.650111
-0.001192 -0.094482 -49.969272
0.28170 -1.096654 -99.852356 -0.650111
-0.001192 -0.167764 -38.916208
0.42254 -1.096654 -99.852356 -0.650111
-0.001192 -0.421460 -29.204824
0.56339 -1.096654 -99.852356 -0.650111
-0.001192 -0.675155 -21.372756

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.442360 92.988776 0.684026
0.004207 0.397780 132.598794
0.14085 11.442360 92.988776 0.684026
0.004207 0.112381 120.998668
0.28170 11.442360 92.988776 0.684026
0.004207 0.205012 125.014685
0.42254 11.442360 92.988776 0.684026
0.004207 0.540545 141.840436
0.56339 11.442360 92.988776 0.684026
0.004207 0.817730 166.565449
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2563

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.243010 -86.507844 -0.745872
-0.004351 -0.434856 -53.431923
0.14085 -8.243010 -86.507844 -0.745872
-0.004351 -0.121899 -42.848066
0.28170 -8.243010 -86.507844 -0.745872
-0.004351 -0.190235 -47.817100
0.42254 -8.243010 -86.507844 -0.745872
-0.004351 -0.477062 -59.757273
0.56339 -8.243010 -86.507844 -0.745872
-0.004351 -0.763896 -84.289526

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.310001 74.682436 0.541728
0.000677 0.305213 2.613050
0.14085 0.310001 74.682436 0.541728
0.000677 0.077607 3.054463
0.28170 0.310001 74.682436 0.541728
0.000677 0.203569 3.659014
0.42254 0.310001 74.682436 0.541728
0.000677 0.512945 4.975615
0.56339 0.310001 74.682436 0.541728
0.000677 0.822289 7.546839

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.370979 -8.101904 -0.737820
-0.000310 -0.415351 -34.159870
0.14085 -11.370979 -8.101904 -0.737820
-0.000310 -0.105951 -63.052902
0.28170 -11.370979 -8.101904 -0.737820
-0.000310 -0.147929 -92.036449
0.42254 -11.370979 -8.101904 -0.737820
-0.000310 -0.375386 -121.449456
0.56339 -11.370979 -8.101904 -0.737820
-0.000310 -0.602779 -151.919199

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.641952 168.085135 0.878324
0.007147 0.524685 135.014117
0.14085 2.641952 168.085135 0.878324
0.007147 0.157184 108.794117
0.28170 2.641952 168.085135 0.878324
0.007147 0.271406 83.104304
0.42254 2.641952 168.085135 0.878324
0.007147 0.663525 74.345810
0.56339 2.641952 168.085135 0.878324
0.007147 1.081654 81.275048

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.773131 -28.360514 -0.997446
-0.006620 -0.592429 -23.255342
0.14085 -17.773131 -28.360514 -0.997446
-0.006620 -0.174933 -58.149914
0.28170 -17.773131 -28.360514 -0.997446
-0.006620 -0.236824 -93.427753
0.42254 -17.773131 -28.360514 -0.997446
-0.006620 -0.596971 -130.769785
0.56339 -17.773131 -28.360514 -0.997446
-0.006620 -0.961536 -196.516689

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.303843 138.678039 1.010350
0.005401 0.588606 142.086926
0.14085 6.303843 138.678039 1.010350
0.005401 0.164939 144.146830
0.28170 6.303843 138.678039 1.010350
0.005401 0.312025 146.664592
0.42254 6.303843 138.678039 1.010350
0.005401 0.771727 161.347007
0.56339 6.303843 138.678039 1.010350
0.005401 1.249365 187.465333
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2564

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.506114 -71.424941 -1.139583
-0.004936 -0.661604 -21.196865
0.14085 -15.506114 -71.424941 -1.139583
-0.004936 -0.184838 -53.351902
0.28170 -15.506114 -71.424941 -1.139583
-0.004936 -0.276577 -85.779439
0.42254 -15.506114 -71.424941 -1.139583
-0.004936 -0.694495 -119.787815
0.56339 -15.506114 -71.424941 -1.139583
-0.004936 -1.115405 -174.182882

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.318142 118.502346 1.162243
0.004659 0.669729 121.955954
0.14085 8.318142 118.502346 1.162243
0.004659 0.182425 122.694296
0.28170 8.318142 118.502346 1.162243
0.004659 0.361397 126.124943
0.42254 8.318142 118.502346 1.162243
0.004659 0.898342 140.436916
0.56339 8.318142 118.502346 1.162243
0.004659 1.450065 167.803423

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.663738 -79.790527 -1.315624
-0.004408 -0.756116 -44.245533
0.14085 -13.663738 -79.790527 -1.315624
-0.004408 -0.205136 -63.335448
0.28170 -13.663738 -79.790527 -1.315624
-0.004408 -0.319666 -83.971814
0.42254 -13.663738 -79.790527 -1.315624
-0.004408 -0.802325 -106.518980
0.56339 -13.663738 -79.790527 -1.315624
-0.004408 -1.287459 -148.720584

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.198746 54.421487 0.305246
0.004451 0.191777 139.365422
0.14085 4.198746 54.421487 0.305246
0.004451 0.064540 134.586853
0.28170 4.198746 54.421487 0.305246
0.004451 0.059401 129.975729
0.42254 4.198746 54.421487 0.305246
0.004451 0.134724 136.628907
0.56339 4.198746 54.421487 0.305246
0.004451 0.227893 153.566663

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.638476 -47.685891 -0.222728
-0.004378 -0.146780 -2.616148
0.14085 -3.638476 -47.685891 -0.222728
-0.004378 -0.053577 -1.685537
0.28170 -3.638476 -47.685891 -0.222728
-0.004378 -0.082816 0.993767
0.42254 -3.638476 -47.685891 -0.222728
-0.004378 -0.204737 -1.361590
0.56339 -3.638476 -47.685891 -0.222728
-0.004378 -0.329893 -20.966315

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.083307 52.456069 0.606969
0.004532 0.359454 149.645347
0.14085 8.083307 52.456069 0.606969
0.004532 0.104859 156.884474
0.28170 8.083307 52.456069 0.606969
0.004532 0.162887 167.666221
0.42254 8.083307 52.456069 0.606969
0.004532 0.396228 189.820715
0.56339 8.083307 52.456069 0.606969
0.004532 0.646356 222.110277
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2565

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.355385 -84.415849 -0.596647
-0.004499 -0.353573 -11.918557
0.14085 -4.355385 -84.415849 -0.596647
-0.004499 -0.104582 -7.331996
0.28170 -4.355385 -84.415849 -0.596647
-0.004499 -0.167863 -4.907291
0.42254 -4.355385 -84.415849 -0.596647
-0.004499 -0.416770 -3.969070
0.56339 -4.355385 -84.415849 -0.596647
-0.004499 -0.668560 -22.132416

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.941779 110.394021 0.947882
0.003609 0.544647 147.321413
0.14085 7.941779 110.394021 0.947882
0.003609 0.146896 135.642374
0.28170 7.941779 110.394021 0.947882
0.003609 0.272939 147.775669
0.42254 7.941779 110.394021 0.947882
0.003609 0.678505 170.735884
0.56339 7.941779 110.394021 0.947882
0.003609 1.094960 201.639405

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.272620 -81.051705 -0.993221
-0.003326 -0.570171 -16.510866
0.14085 -11.272620 -81.051705 -0.993221
-0.003326 -0.155101 -15.587385
0.28170 -11.272620 -81.051705 -0.993221
-0.003326 -0.261504 -41.251836
0.42254 -11.272620 -81.051705 -0.993221
-0.003326 -0.655339 -70.435932
0.56339 -11.272620 -81.051705 -0.993221
-0.003326 -1.051333 -113.146151

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.049664 96.460781 1.164919
0.003146 0.664197 128.756576
0.14085 10.049664 96.460781 1.164919
0.003146 0.175443 117.221995
0.28170 10.049664 96.460781 1.164919
0.003146 0.332709 124.888465
0.42254 10.049664 96.460781 1.164919
0.003146 0.830221 141.853739
0.56339 10.049664 96.460781 1.164919
0.003146 1.336784 167.428560

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.598807 -85.046297 -1.207917
-0.003087 -0.688415 -49.451448
0.14085 -9.598807 -85.046297 -1.207917
-0.003087 -0.182795 -41.537628
0.28170 -9.598807 -85.046297 -1.207917
-0.003087 -0.321994 -55.367541
0.42254 -9.598807 -85.046297 -1.207917
-0.003087 -0.807592 -72.201505
0.56339 -9.598807 -85.046297 -1.207917
-0.003087 -1.294858 -101.669985

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.920574 7.560650 0.623904
0.000163 0.349735 10.448475
0.14085 5.920574 7.560650 0.623904
0.000163 0.087796 7.611975
0.28170 5.920574 7.560650 0.623904
0.000163 0.162835 4.910861
0.42254 5.920574 7.560650 0.623904
0.000163 0.409658 2.734120
0.56339 5.920574 7.560650 0.623904
0.000163 0.656608 2.139263
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2566

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.103254 -25.144433 -0.588361
-0.000462 -0.329682 -60.268958
0.14085 -0.103254 -25.144433 -0.588361
-0.000462 -0.082242 -50.058754
0.28170 -0.103254 -25.144433 -0.588361
-0.000462 -0.173254 -39.939518
0.42254 -0.103254 -25.144433 -0.588361
-0.000462 -0.435000 -30.036912
0.56339 -0.103254 -25.144433 -0.588361
-0.000462 -0.696761 -21.675459

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.491699 11.335666 0.957426
0.000560 0.536936 17.759096
0.14085 9.491699 11.335666 0.957426
0.000560 0.135104 17.372750
0.28170 9.491699 11.335666 0.957426
0.000560 0.277180 22.205643
0.42254 9.491699 11.335666 0.957426
0.000560 0.690260 38.092326
0.56339 9.491699 11.335666 0.957426
0.000560 1.115975 38.251030

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.457794 -54.085215 -1.000008
-0.000986 -0.560242 -78.900853
0.14085 -1.457794 -54.085215 -1.000008
-0.000986 -0.140502 -61.404695
0.28170 -1.457794 -54.085215 -1.000008
-0.000986 -0.266429 -47.094175
0.42254 -1.457794 -54.085215 -1.000008
-0.000986 -0.667911 -33.821091
0.56339 -1.457794 -54.085215 -1.000008
-0.000986 -1.069446 -23.934183

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.425363 9.382914 1.051833
0.000425 0.588094 79.999687
0.14085 12.425363 9.382914 1.051833
0.000425 0.146077 102.726272
0.28170 12.425363 9.382914 1.051833
0.000425 0.289592 129.134079
0.42254 12.425363 9.382914 1.051833
0.000425 0.728788 156.846276
0.56339 12.425363 9.382914 1.051833
0.000425 1.167419 186.575291

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.014460 -100.215850 -1.045457
-0.000763 -0.584343 -70.911380
0.14085 -1.014460 -100.215850 -1.045457
-0.000763 -0.145654 -55.994961
0.28170 -1.014460 -100.215850 -1.045457
-0.000763 -0.293770 -43.187737
0.42254 -1.014460 -100.215850 -1.045457
-0.000763 -0.735309 -31.252148
0.56339 -1.014460 -100.215850 -1.045457
-0.000763 -1.176515 -21.694728

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.692117 83.968037 1.207440
0.003211 0.688447 141.719559
0.14085 11.692117 83.968037 1.207440
0.003211 0.181735 130.450868
0.28170 11.692117 83.968037 1.207440
0.003211 0.324735 133.288368
0.42254 11.692117 83.968037 1.207440
0.003211 0.809229 148.510071
0.56339 11.692117 83.968037 1.207440
0.003211 1.303553 172.324893
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2567

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.248469 -88.609635 -1.178599
-0.003308 -0.672390 -62.641749
0.14085 -7.248469 -88.609635 -1.178599
-0.003308 -0.178278 -48.933870
0.28170 -7.248469 -88.609635 -1.178599
-0.003308 -0.334225 -49.258234
0.42254 -7.248469 -88.609635 -1.178599
-0.003308 -0.837501 -57.019398
0.56339 -7.248469 -88.609635 -1.178599
-0.003308 -1.342409 -78.553481

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.533038 173.514908 0.737277
0.007261 0.428106 143.297541
0.14085 12.533038 173.514908 0.737277
0.007261 0.120556 150.063274
0.28170 12.533038 173.514908 0.737277
0.007261 0.221601 160.163168
0.42254 12.533038 173.514908 0.737277
0.007261 0.547472 184.647095
0.56339 12.533038 173.514908 0.737277
0.007261 0.886412 219.207519

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.243885 -99.852356 -0.808482
-0.006679 -0.471242 -69.163771
0.14085 -18.243885 -99.852356 -0.808482
-0.006679 -0.132013 -56.884140
0.28170 -18.243885 -99.852356 -0.808482
-0.006679 -0.205054 -90.833200
0.42254 -18.243885 -99.852356 -0.808482
-0.006679 -0.514206 -132.202081
0.56339 -18.243885 -99.852356 -0.808482
-0.006679 -0.823405 -195.586818

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.425363 168.085135 1.207440
0.007147 0.688447 149.645347
0.14085 12.425363 168.085135 1.207440
0.007147 0.182425 156.884474
0.28170 12.425363 168.085135 1.207440
0.007147 0.361397 167.666221
0.42254 12.425363 168.085135 1.207440
0.007147 0.898342 189.820715
0.56339 12.425363 168.085135 1.207440
0.007147 1.450065 222.110277

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.773131 -100.215850 -1.315624
-0.006620 -0.756116 -78.900853
0.14085 -17.773131 -100.215850 -1.315624
-0.006620 -0.205136 -63.335448
0.28170 -17.773131 -100.215850 -1.315624
-0.006620 -0.334225 -93.427753
0.42254 -17.773131 -100.215850 -1.315624
-0.006620 -0.837501 -130.769785
0.56339 -17.773131 -100.215850 -1.315624
-0.006620 -1.342409 -196.516689

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.533038 173.514908 1.207440
0.007261 0.688447 149.645347
0.14085 12.533038 173.514908 1.207440
0.007261 0.182425 156.884474
0.28170 12.533038 173.514908 1.207440
0.007261 0.361397 167.666221
0.42254 12.533038 173.514908 1.207440
0.007261 0.898342 189.820715
0.56339 12.533038 173.514908 1.207440
0.007261 1.450065 222.110277
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2568

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.243885 -100.215850 -1.315624
-0.006679 -0.756116 -78.900853
0.14085 -18.243885 -100.215850 -1.315624
-0.006679 -0.205136 -63.335448
0.28170 -18.243885 -100.215850 -1.315624
-0.006679 -0.334225 -93.427753
0.42254 -18.243885 -100.215850 -1.315624
-0.006679 -0.837501 -132.202081
0.56339 -18.243885 -100.215850 -1.315624
-0.006679 -1.342409 -196.516689

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.533038 173.514908 1.207440
0.007261 0.688447 149.645347
0.14085 12.533038 173.514908 1.207440
0.007261 0.182425 156.884474
0.28170 12.533038 173.514908 1.207440
0.007261 0.361397 167.666221
0.42254 12.533038 173.514908 1.207440
0.007261 0.898342 189.820715
0.56339 12.533038 173.514908 1.207440
0.007261 1.450065 222.110277

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.243885 -100.215850 -1.315624
-0.006679 -0.756116 -78.900853
0.14085 -18.243885 -100.215850 -1.315624
-0.006679 -0.205136 -63.335448
0.28170 -18.243885 -100.215850 -1.315624
-0.006679 -0.334225 -93.427753
0.42254 -18.243885 -100.215850 -1.315624
-0.006679 -0.837501 -132.202081
0.56339 -18.243885 -100.215850 -1.315624
-0.006679 -1.342409 -196.516689

ELEM 234 ========== LENGTH = 2.977215

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 0.304030 76.252704 0.395031
0.000547 0.441174 105.761331
0.57749 0.304030 76.252704 0.395031
0.000547 0.275575 73.854049
0.71832 0.304030 76.252704 0.395031
0.000547 0.109983 42.038817
0.85916 0.304030 76.252704 0.395031
0.000547 0.058844 10.544211
1.00000 0.304030 76.252704 0.395031
0.000547 0.235665 2.202000

COMB DB-G1-1 ---------- MIN

```
REL DIST          P          V2          V3
   T          M2          M3
0.43665   -11.266593   -5.752624   -0.421584
-0.000914   -0.471442   -13.376636
0.57749   -11.266593   -5.752624   -0.421584
-0.000914   -0.294671   -11.141532
0.71832   -11.266593   -5.752624   -0.421584
-0.000914   -0.117893   -9.271267
0.85916   -11.266593   -5.752624   -0.421584
-0.000914   -0.055796   -7.566741
1.00000   -11.266593   -5.752624   -0.421584
-0.000914   -0.221442   -23.346588

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    4.572053  108.092990    0.594674
 0.006873    0.640535  201.413482
0.57749    4.572053  108.092990    0.594674
 0.006873    0.391221  161.306468
0.71832    4.572053  108.092990    0.594674
 0.006873    0.164723  133.886092
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          2569

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
   T          M2          M3
0.85916    4.572053  108.092990    0.594674
 0.006873    0.101114  123.633565
1.00000    4.572053  108.092990    0.594674
 0.006873    0.323220  125.627460

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -14.209102   -88.420698   -0.544724
 -0.007326   -0.609295   -38.249670
0.57749   -14.209102   -88.420698   -0.544724
 -0.007326   -0.380688   -17.974846
0.71832   -14.209102   -88.420698   -0.544724
 -0.007326   -0.152448   -13.549280
0.85916   -14.209102   -88.420698   -0.544724
 -0.007326   -0.110829   -10.866469
1.00000   -14.209102   -88.420698   -0.544724
 -0.007326   -0.358671   -10.564662

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    8.014578   97.245664    0.674829
 0.005211    0.740818  188.963409
0.57749    8.014578   97.245664    0.674829
 0.005211    0.457879  153.311379
0.71832    8.014578   97.245664    0.674829
 0.005211    0.190621  127.054402
0.85916    8.014578   97.245664    0.674829
 0.005211    0.107262  115.255498
1.00000    8.014578   97.245664    0.674829
 0.005211    0.371883  126.189697

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -13.086259  -117.387392   -0.641197
 -0.005520   -0.716428   -83.090534
0.57749   -13.086259  -117.387392   -0.641197
 -0.005520   -0.447561   -43.756565
0.71832   -13.086259  -117.387392   -0.641197
 -0.005520   -0.178709   -15.082535
0.85916   -13.086259  -117.387392   -0.641197
 -0.005520   -0.110126   -11.017729
1.00000   -13.086259  -117.387392   -0.641197
 -0.005520   -0.392376   -9.450098

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    9.924743   83.036111    0.780036
 0.004538    0.860558  162.937496
0.57749    9.924743   83.036111    0.780036
 0.004538    0.533502  132.380915
0.71832    9.924743   83.036111    0.780036
 0.004538    0.219451  109.622770
0.85916    9.924743   83.036111    0.780036
 0.004538    0.122743   98.921263
1.00000    9.924743   83.036111    0.780036
 0.004538    0.443136  107.088405

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -11.562095  -115.307815   -0.772371
 -0.004615   -0.862986  -120.820132
0.57749   -11.562095  -115.307815   -0.772371
 -0.004615   -0.539119   -83.092792
0.71832   -11.562095  -115.307815   -0.772371
 -0.004615   -0.215234   -50.803763
0.85916   -11.562095  -115.307815   -0.772371
 -0.004615   -0.122349   -40.855383
1.00000   -11.562095  -115.307815   -0.772371
 -0.004615   -0.448848   -32.767085

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    5.681165   9.223303    0.201626
 0.005536    0.206745   50.998489
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          2570

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
   T          M2          M3
0.57749    5.681165   9.223303    0.201626
 0.005536    0.122266   52.589981
0.71832    5.681165   9.223303    0.201626
 0.005536    0.056951   65.561151
0.85916    5.681165   9.223303    0.201626
 0.005536    0.036106   96.010142
1.00000    5.681165   9.223303    0.201626
 0.005536    0.074815   137.304313

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -0.818498  -101.253830   -0.105030
 -0.005534   -0.117150   -40.931606
0.57749   -0.818498  -101.253830   -0.105030
 -0.005534   -0.073110   -11.653059
0.71832   -0.818498  -101.253830   -0.105030
 -0.005534   -0.029025   -3.235665
0.85916   -0.818498  -101.253830   -0.105030
 -0.005534   -0.048901   -2.594552
1.00000   -0.818498  -101.253830   -0.105030
 -0.005534   -0.132739   -1.962478

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665   10.293140   8.919527    0.395534
 0.005527    0.426639   52.251952
0.57749   10.293140   8.919527    0.395534
 0.005527    0.260811   54.311072
0.71832   10.293140   8.919527    0.395534
 0.005527    0.112932   67.073827
0.85916   10.293140   8.919527    0.395534
 0.005527    0.066582   96.313533
1.00000   10.293140   8.919527    0.395534
 0.005527    0.200145   143.316802

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -1.561012  -137.414636   -0.330148
 -0.005365   -0.368321   -100.906262
0.57749   -1.561012  -137.414636   -0.330148
 -0.005365   -0.229877   -54.923369
0.71832   -1.561012  -137.414636   -0.330148
 -0.005365   -0.091427   -21.962194
0.85916   -1.561012  -137.414636   -0.330148
 -0.005365   -0.073307   -16.007878
1.00000   -1.561012  -137.414636   -0.330148
 -0.005365   -0.238283   -11.763617

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    9.455811   85.418899    0.608481
 0.004322    0.669917   198.482137
0.57749    9.455811   85.418899    0.608481
 0.004322    0.414793   167.230519
0.71832    9.455811   85.418899    0.608481
 0.004322    0.172403   143.849198
0.85916    9.455811   85.418899    0.608481
 0.004322    0.095278   133.174780
1.00000    9.455811   85.418899    0.608481
 0.004322    0.334811   139.133462

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -10.221792  -117.771352   -0.579094
 -0.004413   -0.646889   -98.124071
0.57749   -10.221792  -117.771352   -0.579094
 -0.004413   -0.404044   -57.058267
0.71832   -10.221792  -117.771352   -0.579094
 -0.004413   -0.161196   -26.024500
0.85916   -10.221792  -117.771352   -0.579094
 -0.004413   -0.097241   -19.572651
1.00000   -10.221792  -117.771352   -0.579094
 -0.004413   -0.351777   -14.522038
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          2571

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665   11.136408   73.806117    0.743755
 0.003785    0.822849   172.780332
0.57749   11.136408   73.806117    0.743755
 0.003785    0.511002   145.648433
0.71832   11.136408   73.806117    0.743755
 0.003785    0.209794   125.106056
0.85916   11.136408   73.806117    0.743755
 0.003785    0.115987   115.152085
1.00000   11.136408   73.806117    0.743755
 0.003785    0.424757   119.088176

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -8.692285  -111.919252   -0.742932
 -0.003687   -0.830035   -135.457657
0.57749   -8.692285  -111.919252   -0.742932
 -0.003687   -0.518487   -95.602700
0.71832   -8.692285  -111.919252   -0.742932
 -0.003687   -0.206953   -63.854032
0.85916   -8.692285  -111.919252   -0.742932
 -0.003687   -0.114146   -52.791278
1.00000   -8.692285  -111.919252   -0.742932
 -0.003687   -0.425550   -43.046861

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    5.201501   4.639087    0.375442
 0.000258    0.419810   13.286847
0.57749    5.201501   4.639087    0.375442
 0.000258    0.262385   11.346750
0.71832    5.201501   4.639087    0.375442
 0.000258    0.104976   9.421430
0.85916    5.201501   4.639087    0.375442
 0.000258    0.052704   7.535734
1.00000    5.201501   4.639087    0.375442
 0.000258    0.230346   5.735859

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -0.067870   -19.572629   -0.411568
 -1.19E-05   -0.459962   -83.584802
0.57749   -0.067870   -19.572629   -0.411568
 -1.19E-05   -0.287391   -75.446253
0.71832   -0.067870   -19.572629   -0.411568
 -1.19E-05   -0.114800   -67.341488
0.85916   -0.067870   -19.572629   -0.411568
 -1.19E-05   -0.052402   -59.237301
1.00000   -0.067870   -19.572629   -0.411568
 -1.19E-05   -0.209898   -51.157729

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    9.304792   6.378685    0.600473
 0.000741    0.670238   18.311131
0.57749    9.304792   6.378685    0.600473
 0.000741    0.418450   15.793294
0.71832    9.304792   6.378685    0.600473
 0.000741    0.167382   13.988005
0.85916    9.304792   6.378685    0.600473
 0.000741    0.092774   12.889048
1.00000    9.304792   6.378685    0.600473
 0.000741    0.367559   12.620314

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -1.105860  -48.061245   -0.655353
 -0.000310   -0.732200   -141.122982
0.57749   -1.105860  -48.061245   -0.655353
 -0.000310   -0.487414   -122.030548
0.71832   -1.105860  -48.061245   -0.655353
 -0.000310   -0.182556   -103.925549
0.85916   -1.105860  -48.061245   -0.655353
 -0.000310   -0.085068   -85.990132
1.00000   -1.105860  -48.061245   -0.655353
 -0.000310   -0.336927   -69.109089
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          2572

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665   12.399418   6.405971    0.667231
 0.001186    0.748073   36.560831
0.57749   12.399418   6.405971    0.667231
 0.001186    0.468302   36.155445
0.71832   12.399418   6.405971    0.667231
 0.001186    0.189855   37.671478
0.85916   12.399418   6.405971    0.667231
 0.001186    0.097854   44.469437
1.00000   12.399418   6.405971    0.667231
 0.001186    0.384711   67.922792

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -0.894786  -101.820474   -0.684290
 -0.000761   -0.763978   -166.500351
0.57749   -0.894786  -101.820474   -0.684290
 -0.000761   -0.477046   -124.873186
0.71832   -0.894786  -101.820474   -0.684290
 -0.000761   -0.190104   -86.801445
0.85916   -0.894786  -101.820474   -0.684290
 -0.000761   -0.091915   -73.670381
1.00000   -0.894786  -101.820474   -0.684290
 -0.000761   -0.371384   -61.837160

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665   12.592906   57.444343    0.744448
 0.004179    0.821683   152.295711
0.57749   12.592906   57.444343    0.744448
 0.004179    0.509547   132.395765
0.71832   12.592906   57.444343    0.744448
 0.004179    0.209988   120.072942
0.85916   12.592906   57.444343    0.744448
 0.004179    0.117595   119.598151
1.00000   12.592906   57.444343    0.744448
 0.004179    0.424181   132.841742

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -6.013494  -119.055088   -0.738970
 -0.004001   -0.825567   -150.890472
0.57749   -6.013494  -119.055088   -0.738970
 -0.004001   -0.515734   -109.172575
0.71832   -6.013494  -119.055088   -0.738970
 -0.004001   -0.205835   -76.742291
0.85916   -6.013494  -119.055088   -0.738970
 -0.004001   -0.116418   -64.779700
1.00000   -6.013494  -119.055088   -0.738970
 -0.004001   -0.428004   -54.013442

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    0.391973   75.025951    0.523713
 0.000434    0.583400   101.341997
0.57749    0.391973   75.025951    0.523713
 0.000434    0.363559   70.095537
0.71832    0.391973   75.025951    0.523713
 0.000434    0.144108   39.171479
0.85916    0.391973   75.025951    0.523713
 0.000434    0.098381   9.608715
1.00000    0.391973   75.025951    0.523713
 0.000434    0.376971   2.499093

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -11.578815   -8.439297   -0.665865
 -0.000793   -0.739859   -22.730128
0.57749   -11.578815   -8.439297   -0.665865
 -0.000793   -0.460672   -19.379472
0.71832   -11.578815   -8.439297   -0.665865
 -0.000793   -0.181711   -16.517716
0.85916   -11.578815   -8.439297   -0.665865
 -0.000793   -0.074750   -14.838738
1.00000   -11.578815   -8.439297   -0.665865
 -0.000793   -0.294002   -34.518061
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          2573

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    5.812827   104.979827    0.892130
 0.006755    0.964598   203.016456
0.57749    5.812827   104.979827    0.892130
 0.006755    0.593323   164.929635
0.71832    5.812827   104.979827    0.892130
 0.006755    0.241388   140.430336
0.85916    5.812827   104.979827    0.892130
 0.006755    0.098554   130.749577
1.00000    5.812827   104.979827    0.892130
 0.006755    0.498686   135.004938

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -14.069113   -88.327934   -0.829692
 -0.007178   -0.903552   -54.830415
0.57749   -14.069113   -88.327934   -0.829692
 -0.007178   -0.561424   -28.752061
0.71832   -14.069113   -88.327934   -0.829692
 -0.007178   -0.224081   -22.457109
0.85916   -14.069113   -88.327934   -0.829692
 -0.007178   -0.159074   -18.247804
1.00000   -14.069113   -88.327934   -0.829692
 -0.007178   -0.531810   -23.862523

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    8.580130   94.020254    1.074144
 0.005212    1.178127   187.224442
0.57749    8.580130   94.020254    1.074144
 0.005212    0.729990   154.202925
0.71832    8.580130   94.020254    1.074144
 0.005212    0.295750   132.770337
0.85916    8.580130   94.020254    1.074144
 0.005212    0.163308   129.223883
1.00000    8.580130   94.020254    1.074144
 0.005212    0.573349   142.283845

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -12.982271  -113.639394   -0.981025
 -0.005516   -1.078401   -87.997718
0.57749   -12.982271  -113.639394   -0.981025
 -0.005516   -0.667307   -49.815970
0.71832   -12.982271  -113.639394   -0.981025
 -0.005516   -0.267204   -26.382616
0.85916   -12.982271  -113.639394   -0.981025
 -0.005516   -0.174211   -18.261967
1.00000   -12.982271  -113.639394   -0.981025
 -0.005516   -0.623361   -21.837474

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665   10.216502   81.533186    1.254636
 0.004494    1.384068   165.269354
0.57749   10.216502   81.533186    1.254636
 0.004494    0.859596   136.419078
0.71832   10.216502   81.533186    1.254636
 0.004494    0.346905   117.219674
0.85916   10.216502   81.533186    1.254636
 0.004494    0.187462   112.843981
1.00000   10.216502   81.533186    1.254636
 0.004494    0.683246   122.243112

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -11.575603  -114.564106   -1.184574
 -0.004610   -1.308302   -131.425910
0.57749   -11.575603  -114.564106   -1.184574
 -0.004610   -0.814710   -91.511012
0.71832   -11.575603  -114.564106   -1.184574
 -0.004610   -0.324147   -63.997419
0.85916   -11.575603  -114.564106   -1.184574
 -0.004610   -0.195344   -49.581106
1.00000   -11.575603  -114.564106   -1.184574
 -0.004610   -0.720393   -44.698251
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          2574

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    6.328607   9.763299    0.381965
 0.004637    0.404325   60.052272
0.57749    6.328607   9.763299    0.381965
 0.004637    0.246344   62.634820
0.71832    6.328607   9.763299    0.381965
 0.004637    0.101890   77.238652
0.85916    6.328607   9.763299    0.381965
 0.004637    0.044116   105.491643
1.00000    6.328607   9.763299    0.381965
 0.004637    0.108499   139.579417

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -0.888517   -89.007667   -0.154498
 -0.004639   -0.157921   -42.377891
0.57749   -0.888517   -89.007667   -0.154498
 -0.004639   -0.097132   -14.766652
0.71832   -0.888517   -89.007667   -0.154498
 -0.004639   -0.039756   -4.984750
0.85916   -0.888517   -89.007667   -0.154498
 -0.004639   -0.077516   -3.625519
1.00000   -0.888517   -89.007667   -0.154498
 -0.004639   -0.236643   -2.853835

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665   10.135131   9.884598    0.726141
 0.004724    0.792182   59.355152
0.57749   10.135131   9.884598    0.726141
 0.004724    0.489832   62.027128
0.71832   10.135131   9.884598    0.726141
 0.004724    0.200690   76.427280
0.85916   10.135131   9.884598    0.726141
 0.004724    0.094202   109.257761
1.00000   10.135131   9.884598    0.726141
 0.004724    0.312322   150.055883

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -1.781012  -123.569384   -0.522467
 -0.004609   -0.569378   -95.373250
0.57749   -1.781012  -123.569384   -0.522467
 -0.004609   -0.353847   -53.231983
0.71832   -1.781012  -123.569384   -0.522467
 -0.004609   -0.142027   -25.819203
0.85916   -1.781012  -123.569384   -0.522467
 -0.004609   -0.123681   -17.258519
1.00000   -1.781012  -123.569384   -0.522467
 -0.004609   -0.427327   -12.226352

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    9.367216   83.497661    1.028246
 0.003414    1.135798   203.936700
0.57749    9.367216   83.497661    1.028246
 0.003414    0.705864   174.384139
0.71832    9.367216   83.497661    1.028246
 0.003414    0.284700   153.434720
0.85916    9.367216   83.497661    1.028246
 0.003414    0.135032   146.973333
1.00000    9.367216   83.497661    1.028246
 0.003414    0.492879   147.870117

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -9.816316  -106.501114   -0.855563
 -0.003526   -0.982415   -98.247815
0.57749   -9.816316  -106.501114   -0.855563
 -0.003526   -0.588667   -60.704361
0.71832   -9.816316  -106.501114   -0.855563
 -0.003526   -0.234814   -33.614421
0.85916   -9.816316  -106.501114   -0.855563
 -0.003526   -0.159123   -24.038343
1.00000   -9.816316  -106.501114   -0.855563
 -0.003526   -0.589182   -17.478269
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                        Page
<                  MOVING                LOAD                >
                                          2575

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665   11.251808   74.019061    1.269736
 0.003005    1.408196   183.236224
0.57749   11.251808   74.019061    1.269736
 0.003005    0.876800   156.754460
0.71832   11.251808   74.019061    1.269736
 0.003005    0.352737   137.441458
0.85916   11.251808   74.019061    1.269736
 0.003005    0.164591   130.321615
1.00000   11.251808   74.019061    1.269736
 0.003005    0.621303   129.375954

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -8.368899  -106.203128   -1.090176
 -0.002949   -1.209175   -146.017439
0.57749   -8.368899  -106.203128   -1.090176
 -0.002949   -0.753766   -107.565496
0.71832   -8.368899  -106.203128   -1.090176
 -0.002949   -0.300488   -77.845086
0.85916   -8.368899  -106.203128   -1.090176
 -0.002949   -0.189922   -62.620784
1.00000   -8.368899  -106.203128   -1.090176
 -0.002949   -0.721599   -50.167937

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43665    5.938205   7.810310    0.688540
 0.000218    0.769585   23.612576
0.57749    5.938205   7.810310    0.688540
 0.000218    0.480884   20.342022
0.71832    5.938205   7.810310    0.688540
 0.000218    0.192351   17.086482
0.85916    5.938205   7.810310    0.688540
 0.000218    0.081242   13.861870
1.00000    5.938205   7.810310    0.688540
 0.000218    0.327620   10.724352

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43665   -0.088704   -24.820595   -0.586775
```

```
-9.02E-06   -0.655825  -101.243001
0.57749     -0.088704   -24.820595    -0.586775
-9.02E-06   -0.409657   -90.910809
0.71832     -0.088704   -24.820595    -0.586775
-9.02E-06   -0.163240   -80.610768
0.85916     -0.088704   -24.820595    -0.586775
-9.02E-06   -0.096594   -70.331669
1.00000     -0.088704   -24.820595    -0.586775
-9.02E-06   -0.385185   -60.134969

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    9.589147   10.365153    1.066932
0.000582   1.192185   31.108491
0.57749    9.589147   10.365153    1.066932
0.000582   0.744875   27.003631
0.71832    9.589147   10.365153    1.066932
0.000582   0.298262   23.255556
0.85916    9.589147   10.365153    1.066932
0.000582   0.139070   20.077354
1.00000    9.589147   10.365153    1.066932
0.000582   0.557814   18.141502

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -1.396818  -54.596389   -0.996003
-0.000240  -1.111731  -162.609607
0.57749   -1.396818  -54.596389   -0.996003
-0.000240  -0.693996  -140.319884
0.71832   -1.396818  -54.596389   -0.996003
-0.000240  -0.275971  -118.806310
0.85916   -1.396818  -54.596389   -0.996003
-0.000240  -0.150316  -98.220085
1.00000   -1.396818  -54.596389   -0.996003
-0.000240  -0.597474  -78.698089
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2576

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665   12.438197    9.665798    1.210429
0.000721   1.353843   48.134046
0.57749   12.438197    9.665798    1.210429
0.000721   0.846360   47.568692
0.71832   12.438197    9.665798    1.210429
0.000721   0.339400   50.351609
0.85916   12.438197    9.665798    1.210429
0.000721   0.140553   61.742557
1.00000   12.438197    9.665798    1.210429
0.000721   0.565578   80.626929

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -1.076879   -99.035953   -1.012570
-0.000381  -1.130419  -177.334638
0.57749   -1.076879   -99.035953   -1.012570
-0.000381  -0.705531  -138.782326
0.71832   -1.076879   -99.035953   -1.012570
-0.000381  -0.280757  -103.214489
0.85916   -1.076879   -99.035953   -1.012570
-0.000381  -0.169861   -86.086065
1.00000   -1.076879   -99.035953   -1.012570
-0.000381  -0.677780   -70.947179

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665   12.983579   59.569081    1.335303
0.003124   1.480287   169.036028
0.57749   12.983579   59.569081    1.335303
0.003124   0.921662   148.858700
0.71832   12.983579   59.569081    1.335303
0.003124   0.371068   136.360445
0.85916   12.983579   59.569081    1.335303
0.003124   0.162316   136.306863
1.00000   12.983579   59.569081    1.335303
0.003124   0.613341   142.389346

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -5.853049  -111.423909   -1.075464
-0.002976  -1.192759  -164.176415
0.57749   -5.853049  -111.423909   -1.075464
-0.002976  -0.743780  -123.914027
0.71832   -5.853049  -111.423909   -1.075464
-0.002976  -0.296865   -93.048637
0.85916   -5.853049  -111.423909   -1.075464
-0.002976  -0.200499   -77.167069
1.00000   -5.853049  -111.423909   -1.075464
-0.002976  -0.760280   -63.115020

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665   12.592906   108.092990    0.780036
0.006873   0.860558   201.413482
0.57749   12.592906   108.092990    0.780036
0.006873   0.533502   167.230519
0.71832   12.592906   108.092990    0.780036
0.006873   0.219451   143.849198
0.85916   12.592906   108.092990    0.780036
0.006873   0.122743   133.174780
1.00000   12.592906   108.092990    0.780036
0.006873   0.443136   143.316802

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -14.209102  -137.414636   -0.772371
-0.007326  -0.862986  -166.500351
0.57749   -14.209102  -137.414636   -0.772371
-0.007326  -0.539119  -124.873186
0.71832   -14.209102  -137.414636   -0.772371
-0.007326  -0.215234  -103.925549
0.85916   -14.209102  -137.414636   -0.772371
-0.007326  -0.122349   -85.990132
1.00000   -14.209102  -137.414636   -0.772371
-0.007326  -0.448848   -69.109089
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2577

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665   12.983579   104.979827    1.335303
0.006755   1.480287   203.936700
0.57749   12.983579   104.979827    1.335303
0.006755   0.921662   174.384139
0.71832   12.983579   104.979827    1.335303
0.006755   0.371068   153.434720
0.85916   12.983579   104.979827    1.335303
0.006755   0.187462   146.973333
1.00000   12.983579   104.979827    1.335303
0.006755   0.683246   150.055883

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -14.069113  -123.569384   -1.184574
-0.007178  -1.308302  -177.334638
0.57749   -14.069113  -123.569384   -1.184574
-0.007178  -0.814710  -140.319884
0.71832   -14.069113  -123.569384   -1.184574
-0.007178  -0.324147  -118.806310
0.85916   -14.069113  -123.569384   -1.184574
-0.007178  -0.200499   -98.220085
1.00000   -14.069113  -123.569384   -1.184574
-0.007178  -0.760280   -78.698089

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    12.983579   108.092990    1.335303
0.006873   1.480287   203.936700
0.57749    12.983579   108.092990    1.335303
0.006873   0.921662   174.384139
0.71832    12.983579   108.092990    1.335303
0.006873   0.371068   153.434720
0.85916    12.983579   108.092990    1.335303
0.006873   0.187462   146.973333
1.00000    12.983579   108.092990    1.335303
0.006873   0.683246   150.055883

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -14.209102  -137.414636   -1.184574
-0.007326  -1.308302  -177.334638
0.57749   -14.209102  -137.414636   -1.184574
-0.007326  -0.814710  -140.319884
0.71832   -14.209102  -137.414636   -1.184574
-0.007326  -0.324147  -118.806310
0.85916   -14.209102  -137.414636   -1.184574
-0.007326  -0.200499   -98.220085
1.00000   -14.209102  -137.414636   -1.184574
-0.007326  -0.760280   -78.698089

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    12.983579   108.092990    1.335303
0.006873   1.480287   203.936700
0.57749    12.983579   108.092990    1.335303
0.006873   0.921662   174.384139
0.71832    12.983579   108.092990    1.335303
0.006873   0.371068   153.434720
0.85916    12.983579   108.092990    1.335303
0.006873   0.187462   146.973333
1.00000    12.983579   108.092990    1.335303
0.006873   0.683246   150.055883

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -14.209102  -137.414636   -1.184574
-0.007326  -1.308302  -177.334638
0.57749   -14.209102  -137.414636   -1.184574
-0.007326  -0.814710  -140.319884
0.71832   -14.209102  -137.414636   -1.184574
-0.007326  -0.324147  -118.806310
0.85916   -14.209102  -137.414636   -1.184574
-0.007326  -0.200499   -98.220085
1.00000   -14.209102  -137.414636   -1.184574
-0.007326  -0.760280   -78.698089
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2578

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      235 ================== LENGTH
=     2.977225

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.307839    75.644486    0.402404
0.000389   0.227148    2.202058
0.14084    0.307839    75.644486    0.402404
0.000389   0.058407    2.851471
0.28168    0.307839    75.644486    0.402404
0.000389   0.118335    3.514426
0.42251    0.307839    75.644486    0.402404
0.000389   0.299813    4.297326
0.56335    0.307839    75.644486    0.402404
0.000389   0.481284    6.308530

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.206042   -5.726103   -0.432789
-0.000774  -0.244620   -23.384446
0.14084   -11.206042   -5.726103   -0.432789
-0.000774  -0.063129   -54.750461
0.28168   -11.206042   -5.726103   -0.432789
-0.000774  -0.110319   -86.375815
0.42251   -11.206042   -5.726103   -0.432789
-0.000774  -0.279044  -118.010394
0.56335   -11.206042   -5.726103   -0.432789
-0.000774  -0.447774  -149.674466

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    2.168337   173.617524    0.608569
0.006689   0.369874   125.983615
0.14084    2.168337   173.617524    0.608569
0.006689   0.115286   101.012286
0.28168    2.168337   173.617524    0.608569
0.006689   0.153031   76.269566
0.42251    2.168337   173.617524    0.608569
0.006689   0.388115   69.583707
0.56335    2.168337   173.617524    0.608569
0.006689   0.623166   75.991297

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -18.456452  -27.357281   -0.560567
-0.007234  -0.334596   -10.606736
0.14084   -18.456452  -27.357281   -0.560567
-0.007234  -0.106810   -50.549089
0.28168   -18.456452  -27.357281   -0.560567
-0.007234  -0.165945   -90.653121
0.42251   -18.456452  -27.357281   -0.560567
-0.007234  -0.397309  -132.051458
0.56335   -18.456452  -27.357281   -0.560567
-0.007234  -0.652485  -195.462944

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.485658   141.619761    0.716572
0.004808   0.422997   126.397546
0.14084    6.485658   141.619761    0.716572
0.004808   0.122931   133.350402
0.28168    6.485658   141.619761    0.716572
0.004808   0.179296   140.338362
0.42251    6.485658   141.619761    0.716572
0.004808   0.452546   159.787709
0.56335    6.485658   141.619761    0.716572
0.004808   0.725809   188.243499

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -15.938902   -76.482976   -0.651676
-0.005277  -0.379180   -9.485304
0.14084   -15.938902   -76.482976   -0.651676
-0.005277  -0.110802   -46.387267
0.28168   -15.938902   -76.482976   -0.651676
-0.005277  -0.195287   -83.375695
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2579

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.42251   -15.938902   -76.482976   -0.651676
-0.005277  -0.479520   -121.186436
0.56335   -15.938902   -76.482976   -0.651676
-0.005277  -0.779983   -173.933730

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.697173   119.861116    0.816934
0.004393   0.476046   107.267377
0.14084    8.697173   119.861116    0.816934
0.004393   0.133793   112.370844
0.28168    8.697173   119.861116    0.816934
0.004393   0.215820   120.072895
0.42251    8.697173   119.861116    0.816934
0.004393   0.544029   139.131298
0.56335    8.697173   119.861116    0.816934
0.004393   0.872219   168.333897

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -13.929145  -81.636787   -0.782670
-0.004608  -0.450410   -32.811802
0.14084   -13.929145  -81.636787   -0.782670
-0.004608  -0.126266   -56.843168
0.28168   -13.929145  -81.636787   -0.782670
-0.004608  -0.223436   -81.628676
0.42251   -13.929145  -81.636787   -0.782670
-0.004608  -0.552525   -108.201201
0.56335   -13.929145  -81.636787   -0.782670
-0.004608  -0.895070   -147.988498

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.723141   64.835669    0.219541
0.005190   0.146092   137.584399
0.14084    3.723141   64.835669    0.219541
0.005190   0.054555   129.960350
0.28168    3.723141   64.835669    0.219541
0.005190   0.029108   122.488966
0.42251    3.723141   64.835669    0.219541
0.005190   0.073187   129.477763
0.56335    3.723141   64.835669    0.219541
0.005190   0.117220   146.868774

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.431066  -50.547705   -0.105014
-0.005259  -0.073606   -1.955598
0.14084   -4.431066  -50.547705   -0.105014
-0.005259  -0.035655   -1.370463
0.28168   -4.431066  -50.547705   -0.105014
-0.005259  -0.059329   -0.847522
0.42251   -4.431066  -50.547705   -0.105014
-0.005259  -0.071459   -1.361100
0.56335   -4.431066  -50.547705   -0.105014
-0.005259  -0.223514   -20.281779

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.553886   60.676932    0.432849
0.005198   0.265087   143.559069
0.14084    8.553886   60.676932    0.432849
0.005198   0.084046   150.292424
0.28168    8.553886   60.676932    0.432849
0.005198   0.091621   160.392518
0.42251    8.553886   60.676932    0.432849
0.005198   0.229488   184.875377
0.56335    8.553886   60.676932    0.432849
0.005198   0.367351   219.389080

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.913401   -90.778817   -0.328757
-0.005217  -0.197754   -11.762465
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2580

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.14084   -4.913401   -90.778817   -0.328757
-0.005217  -0.065562   -7.588396
0.28168   -4.913401   -90.778817   -0.328757
-0.005217  -0.117773   -4.397547
0.42251   -4.913401   -90.778817   -0.328757
-0.005217  -0.280691   -3.672488
0.56335   -4.913401   -90.778817   -0.328757
-0.005217  -0.462187   -20.930664

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.256232   121.233929    0.649144
0.004150   0.381444   139.260684
0.14084    8.256232   121.233929    0.649144
0.004150   0.109564   130.170337
0.28168    8.256232   121.233929    0.649144
0.004150   0.161671   142.358607
0.42251    8.256232   121.233929    0.649144
0.004150   0.407498   167.001225
0.56335    8.256232   121.233929    0.649144
0.004150   0.653279   199.353554

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -12.524039  -85.003791   -0.586162
-0.004446  -0.339539   -14.512770
0.14084   -12.524039  -85.003791   -0.586162
-0.004446  -0.170456   -15.157160
0.28168   -12.524039  -85.003791   -0.586162
-0.004446  -0.176991   -45.026630
0.42251   -12.524039  -85.003791   -0.586162
-0.004446  -0.436038   -76.931376
0.56335   -12.524039  -85.003791   -0.586162
-0.004446  -0.708229   -121.743062

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    10.171040   103.821668    0.781988
0.003817   0.453714   119.200488
0.14084    10.171040   103.821668    0.781988
0.003817   0.126029   110.544126
0.28168    10.171040   103.821668    0.781988
0.003817   0.207428   119.244690
0.42251    10.171040   103.821668    0.781988
0.003817   0.522320   138.747257
0.56335    10.171040   103.821668    0.781988
0.003817   0.837195   165.956032

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -10.622260   -84.583948   -0.750900
-0.003859  -0.430345   -43.052581
0.14084   -10.622260   -84.583948   -0.750900
-0.003859  -0.118756   -38.004739
0.28168   -10.622260   -84.583948   -0.750900
-0.003859  -0.213818   -57.149735
0.42251   -10.622260   -84.583948   -0.750900
-0.003859  -0.530728   -77.751803
0.56335   -10.622260   -84.583948   -0.750900
-0.003859  -0.858620   -109.016930

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.259337    4.724639    0.382608
0.000535   0.215644    5.744222
0.14084    5.259337    4.724639    0.382608
0.000535   0.055189    4.069905
0.28168    5.259337    4.724639    0.382608
0.000535   0.114898    2.630886
0.42251    5.259337    4.724639    0.382608
0.000535   0.288896    2.232963
0.56335    5.259337    4.724639    0.382608
0.000535   0.462875    1.950315
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2581

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.073163  -19.669296   -0.414922
-0.000176  -0.233061   -51.177901
0.14084   -0.073163  -19.669296   -0.414922
-0.000176  -0.059036   -43.261163
0.28168   -0.073163  -19.669296   -0.414922
-0.000176  -0.105233   -35.444150
0.42251   -0.073163  -19.669296   -0.414922
-0.000176  -0.266646   -27.658015
0.56335   -0.073163  -19.669296   -0.414922
-0.000176  -0.426077   -19.897354

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.340142    8.537689    0.608502
0.001209   0.343294   12.640430
0.14084    9.340142    8.537689    0.608502
0.001209   0.088038   13.192157
0.28168    9.340142    8.537689    0.608502
0.001209   0.182775   18.681015
0.42251    9.340142    8.537689    0.608502
0.001209   0.459326   26.957821
0.56335    9.340142    8.537689    0.608502
0.001209   0.735807   36.212555

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1.237791  -46.689165   -0.659394
-0.000704  -0.370691   -69.144504
0.14084   -1.237791  -46.689165   -0.659394
-0.000704  -0.094259   -55.044201
0.28168   -1.237791  -46.689165   -0.659394
-0.000704  -0.167794   -42.326476
0.42251   -1.237791  -46.689165   -0.659394
-0.000704  -0.422196   -31.507054
0.56335   -1.237791  -46.689165   -0.659394
-0.000704  -0.677354   -22.487840

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   12.483281    9.817951    0.709115
0.001185   0.401544   67.912173
0.14084   12.483281    9.817951    0.709115
0.001185   0.104127   93.522398
0.28168   12.483281    9.817951    0.709115
0.001185   0.190336   122.109269
0.42251   12.483281    9.817951    0.709115
0.001185   0.477173   153.352743
0.56335   12.483281    9.817951    0.709115
0.001185   0.764011   185.659398

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1.091926  -99.880601   -0.684057
-0.000785  -0.384229   -61.595416
0.14084   -1.091926  -99.880601   -0.684057
-0.000785  -0.097651   -49.998052
0.28168   -1.091926  -99.880601   -0.684057
-0.000785  -0.194428   -38.934211
0.42251   -1.091926  -99.880601   -0.684057
-0.000785  -0.490548   -29.221470
0.56335   -1.091926  -99.880601   -0.684057
-0.000785  -0.787884   -21.385974

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.434349   93.192342    0.782492
0.004347   0.456137   132.995656
0.14084   11.434349   93.192342    0.782492
0.004347   0.128270   121.202739
0.28168   11.434349   93.192342    0.782492
0.004347   0.206222   125.087572
0.42251   11.434349   93.192342    0.782492
0.004347   0.518807   141.905300
0.56335   11.434349   93.192342    0.782492
0.004347   0.831331   166.762726
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2582

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -8.315948  -86.588166   -0.745379
-0.004213  -0.428456   -54.024947
0.14084   -8.315948  -86.588166   -0.745379
-0.004213  -0.119740   -43.304391
0.28168   -8.315948  -86.588166   -0.745379
-0.004213  -0.213979   -47.741258
0.42251   -8.315948  -86.588166   -0.745379
-0.004213  -0.529076   -59.692737
0.56335   -8.315948  -86.588166   -0.745379
-0.004213  -0.857179   -84.230837

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.397487   74.576294    0.507563
0.000317   0.284089   2.498792
0.14084    0.397487   74.576294    0.507563
0.000317   0.072020   3.090279
0.28168    0.397487   74.576294    0.507563
0.000317   0.179318   3.697119
0.42251    0.397487   74.576294    0.507563
0.000317   0.445887   4.457047
0.56335    0.397487   74.576294    0.507563
0.000317   0.712901   6.679413

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.545557   -8.448183   -0.636892
```

```
-0.000668   -0.355784  -34.545890
 0.14084   -11.545557   -8.448183   -0.636892
-0.000668   -0.089141   -63.376221
 0.28168   -11.545557   -8.448183   -0.636892
-0.000668   -0.141008   -92.218061
 0.42251   -11.545557   -8.448183   -0.636892
-0.000668   -0.353608  -121.118761
 0.56335   -11.545557   -8.448183   -0.636892
-0.000668   -0.566662  -151.061430

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.855991  167.954231   0.867365
 0.006627   0.515277  135.045099
 0.14084   2.855991  167.954231   0.867365
 0.006627   0.153269  108.997158
 0.28168   2.855991  167.954231   0.867365
 0.006627   0.221557   83.128748
 0.42251   2.855991  167.954231   0.867365
 0.006627   0.547581   73.785915
 0.56335   2.855991  167.954231   0.867365
 0.006627   0.879107   80.572369

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -18.048465  -28.779088   -0.804146
-0.007135   -0.481562   -23.886902
 0.14084  -18.048465  -28.779088   -0.804146
-0.007135   -0.146017   -58.564962
 0.28168  -18.048465  -28.779088   -0.804146
-0.007135   -0.238529   -93.578583
 0.42251  -18.048465  -28.779088   -0.804146
-0.007135   -0.577344  -130.190023
 0.56335  -18.048465  -28.779088   -0.804146
-0.007135   -0.939603  -195.583788

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   6.553818  138.571024   1.063513
 0.004941   0.617194  142.280940
 0.14084   6.553818  138.571024   1.063513
 0.004941   0.170408  144.486747
 0.28168   6.553818  138.571024   1.063513
 0.004941   0.266009  146.817475
 0.42251   6.553818  138.571024   1.063513
 0.004941   0.660463  161.013959
 0.56335   6.553818  138.571024   1.063513
 0.004941   1.059584  187.008274
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2583

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -15.784959  -71.828518   -0.960342
-0.005376   -0.558543   -21.851594
 0.14084  -15.784959  -71.828518   -0.960342
-0.005376   -0.157655   -53.883922
 0.28168  -15.784959  -71.828518   -0.960342
-0.005376   -0.295257   -85.991820
 0.42251  -15.784959  -71.828518   -0.960342
-0.005376   -0.723216  -119.357249
 0.56335  -15.784959  -71.828518   -0.960342
-0.005376   -1.167924  -173.423969

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   8.563856  118.523451   1.249385
 0.00424   0.716162  122.253103
 0.14084   8.563856  118.523451   1.249385
 0.00424   0.192846  123.068330
 0.28168   8.563856  118.523451   1.249385
 0.00424   0.323745  126.278177
 0.42251   8.563856  118.523451   1.249385
 0.00424   0.807160  140.196978
 0.56335   8.563856  118.523451   1.249385
 0.00424   1.294157  167.470129

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -13.902574  -80.056586   -1.168297
-0.004639   -0.644720   -44.729046
 0.14084  -13.902574  -80.056586   -1.168297
-0.004639   -0.182164   -63.752669
 0.28168  -13.902574  -80.056586   -1.168297
-0.004639   -0.347235   -84.154633
 0.42251  -13.902574  -80.056586   -1.168297
-0.004639   -0.856300  -106.223586
 0.56335  -13.902574  -80.056586   -1.168297
-0.004639   -1.379197  -148.232799

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   4.308091  54.400816   0.369446
 0.004378   0.226082  139.586165
 0.14084   4.308091  54.400816   0.369446
 0.004378   0.072057  134.821132
 0.28168   4.308091  54.400816   0.369446
 0.004378   0.040047  130.141088
 0.42251   4.308091  54.400816   0.369446
 0.004378   0.008038  136.760323
 0.56335   4.308091  54.400816   0.369446
 0.004378   0.153824  153.831993

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -3.707472  -47.742137   -0.149686
-0.004453   -0.105104   -2.837732
 0.14084  -3.707472  -47.742137   -0.149686
-0.004453   -0.042772   -1.876592
 0.28168  -3.707472  -47.742137   -0.149686
-0.004453   -0.102952   -1.007646
 0.42251  -3.707472  -47.742137   -0.149686
-0.004453   -0.240417   -1.295539
 0.56335  -3.707472  -47.742137   -0.149686
-0.004453   -0.394103   -20.974970

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   8.252449  52.478435   0.728897
 0.004497   0.426529  150.050177
 0.14084   8.252449  52.478435   0.728897
 0.004497   0.120231  157.261182
 0.28168   8.252449  52.478435   0.728897
 0.004497   0.143758  167.979711
 0.42251   8.252449  52.478435   0.728897
 0.004497   0.355441  190.092041
 0.56335   8.252449  52.478435   0.728897
 0.004497   0.571600  222.528104
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2584

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -4.461494  -84.460188   -0.523000
-0.004536   -0.311760  -12.216700
 0.14084   -4.461494  -84.460188   -0.523000
-0.004536   -0.092968   -7.559333
 0.28168   -4.461494  -84.460188   -0.523000
-0.004536   -0.203917   -4.998703
 0.42251   -4.461494  -84.460188   -0.523000
-0.004536   -0.492619   -4.006124
 0.56335   -4.461494  -84.460188   -0.523000
-0.004536   -0.797143   -22.260049

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   8.176290  110.359178   1.023577
 0.003328   0.585002  147.816787
 0.14084   8.176290  110.359178   1.023577
 0.003328   0.155415  136.006738
 0.28168   8.176290  110.359178   1.023577
 0.003328   0.234523  148.033613
 0.42251   8.176290  110.359178   1.023577
 0.003328   0.584503  170.703691
 0.56335   8.176290  110.359178   1.023577
 0.003328   0.937858  201.755580

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -11.501974  -81.344722   -0.847442
-0.003606   -0.487369   -17.455111
 0.14084  -11.501974  -81.344722   -0.847442
-0.003606   -0.133017   -150.017682
 0.28168  -11.501974  -81.344722   -0.847442
-0.003606   -0.285439   -41.365381
 0.42251  -11.501974  -81.344722   -0.847442
-0.003606   -0.703475   -70.055869
 0.56335  -11.501974  -81.344722   -0.847442
-0.003606   -1.132092  -112.802073

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   10.281820  96.601002   1.271879
 0.003099   0.722232  129.344335
 0.14084   10.281820  96.601002   1.271879
 0.003099   0.188590  117.628726
 0.28168   10.281820  96.601002   1.271879
 0.003099   0.300884  125.125520
 0.42251   10.281820  96.601002   1.271879
 0.003099   0.753071  141.802036
 0.56335   10.281820  96.601002   1.271879
 0.003099   1.207854  167.493858

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -9.784984  -85.190124   -1.088356
-0.003145   -0.620315   -50.166388
 0.14084  -9.784984  -85.190124   -1.088356
-0.003145   -0.164379   -41.839608
 0.28168  -9.784984  -85.190124   -1.088356
-0.003145   -0.354232   -55.478577
 0.42251  -9.784984  -85.190124   -1.088356
-0.003145   -0.878230   -91.966157
 0.56335  -9.784984  -85.190124   -1.088356
-0.003145   -1.411096  -101.544676

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   5.982137   7.877545   0.695045
 0.000458   0.389196  10.742770
 0.14084   5.982137   7.877545   0.695045
 0.000458   0.097027   7.772583
 0.28168   5.982137   7.877545   0.695045
 0.000458   0.163856   4.941424
 0.42251   5.982137   7.877545   0.695045
 0.000458   0.413350   2.690897
 0.56335   5.982137   7.877545   0.695045
 0.000458   0.662487   2.084397
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2585

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.089077  -24.970361   -0.593991
-0.000166   -0.032988   -60.161573
 0.14084  -0.089077  -24.970361   -0.593991
-0.000166   -0.083353   -50.030395
 0.28168  -0.089077  -24.970361   -0.593991
-0.000166   -0.193588   -39.989627
 0.42251  -0.089077  -24.970361   -0.593991
-0.000166   -0.485007   -30.190735
 0.56335  -0.089077  -24.970361   -0.593991
-0.000166   -0.776404   -21.997274

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   9.605832  11.726112   1.076371
 0.000980   0.602973   18.169008
 0.14084   9.605832  11.726112   1.076371
 0.000980   0.150864   17.624959
 0.28168   9.605832  11.726112   1.076371
 0.000980   0.277619   22.303544
 0.42251   9.605832  11.726112   1.076371
 0.000980   0.698425   29.983534
 0.56335   9.605832  11.726112   1.076371
 0.000980   1.118939   38.324418

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -1.476997  -53.863209   -1.002528
-0.000566   -0.561458   -78.743570
 0.14084  -1.476997  -53.863209   -1.002528
-0.000566   -0.140073   -61.375023
 0.28168  -1.476997  -53.863209   -1.002528
-0.000566   -0.330070   -47.155676
 0.42251  -1.476997  -53.863209   -1.002528
-0.000566   -0.751129   -34.062807
 0.56335  -1.476997  -53.863209   -1.002528
-0.000566   -1.202387   -24.412471

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   12.592588  9.725912   1.224577
 0.000643   0.684738  80.612477
 0.14084   12.592588  9.725912   1.224577
 0.000643   0.168737  103.169532
 0.28168   12.592588  9.725912   1.224577
 0.000643   0.282764  129.383781
 0.42251   12.592588  9.725912   1.224577
 0.000643   0.710384  157.043605
 0.56335   12.592588  9.725912   1.224577
 0.000643   1.138461  186.832106

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -1.063301  -100.066016   -1.019556
-0.000429   -0.569081   -70.971571
 0.14084  -1.063301  -100.066016   -1.019556
-0.000429   -0.140976   -56.071146
 0.28168  -1.063301  -100.066016   -1.019556
-0.000429   -0.343390   -43.309084
 0.42251  -1.063301  -100.066016   -1.019556
-0.000429   -0.856570   -31.503332
 0.56335  -1.063301  -100.066016   -1.019556
-0.000429   -1.370092   -22.152887

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   11.929717  84.218283   1.339054
 0.003305   0.760810  142.372898
 0.14084   11.929717  84.218283   1.339054
 0.003305   0.198004  130.946958
 0.28168   11.929717  84.218283   1.339054
 0.003305   0.297801  133.539921
 0.42251   11.929717  84.218283   1.339054
 0.003305   0.746236  148.469024
 0.56335   11.929717  84.218283   1.339054
 0.003305   1.197358  172.467866
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2586

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -7.397088  -88.643201   -1.079998
-0.003213   -0.616792   -63.124416
 0.14084  -7.397088  -88.643201   -1.079998
-0.003213   -0.163869   -49.367061
 0.28168  -7.397088  -88.643201   -1.079998
-0.003213   -0.373510   -49.378737
 0.42251  -7.397088  -88.643201   -1.079998
-0.003213   -0.924818   -56.936899
 0.56335  -7.397088  -88.643201   -1.079998
-0.003213   -1.485696   -78.713209

COMB    DB ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   12.483281  173.617524   0.816934
 0.006689   0.476046  143.559069
 0.14084   12.483281  173.617524   0.816934
 0.006689   0.133793  150.292424
 0.28168   12.483281  173.617524   0.816934
 0.006689   0.215820  160.392518
 0.42251   12.483281  173.617524   0.816934
 0.006689   0.544029  184.875377
 0.56335   12.483281  173.617524   0.816934
 0.006689   0.872219  219.389080

COMB    DB ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -18.456452  -99.880601   -0.782670
-0.007234   -0.450410   -69.144504
 0.14084  -18.456452  -99.880601   -0.782670
-0.007234   -0.126266   -56.843168
 0.28168  -18.456452  -99.880601   -0.782670
-0.007234   -0.223436   -90.653121
 0.42251  -18.456452  -99.880601   -0.782670
-0.007234   -0.552525  -132.051458
 0.56335  -18.456452  -99.880601   -0.782670
-0.007234   -0.895070  -195.462944

COMB    DL ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   12.592588  167.954231   1.339054
 0.006627   0.760810  150.050177
 0.14084   12.592588  167.954231   1.339054
 0.006627   0.198004  157.261182
 0.28168   12.592588  167.954231   1.339054
 0.006627   0.323745  167.979711
 0.42251   12.592588  167.954231   1.339054
 0.006627   0.807160  190.092041
 0.56335   12.592588  167.954231   1.339054
 0.006627   1.294157  222.528104

COMB    DL ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -18.048465  -100.066016   -1.168297
-0.007135   -0.671014   -78.743570
 0.14084  -18.048465  -100.066016   -1.168297
-0.007135   -0.182164   -63.752669
 0.28168  -18.048465  -100.066016   -1.168297
-0.007135   -0.373510   -93.578583
 0.42251  -18.048465  -100.066016   -1.168297
-0.007135   -0.924818  -130.190023
 0.56335  -18.048465  -100.066016   -1.168297
-0.007135   -1.485696  -195.583788

COMB    CAR ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   12.592588  173.617524   1.339054
 0.006689   0.760810  150.050177
 0.14084   12.592588  173.617524   1.339054
 0.006689   0.198004  157.261182
 0.28168   12.592588  173.617524   1.339054
 0.006689   0.323745  167.979711
 0.42251   12.592588  173.617524   1.339054
 0.006689   0.807160  190.092041
 0.56335   12.592588  173.617524   1.339054
 0.006689   1.294157  222.528104
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2587

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB    CAR ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -18.456452  -100.066016   -1.168297
-0.007234   -0.671014   -78.743570
 0.14084  -18.456452  -100.066016   -1.168297
-0.007234   -0.182164   -63.752669
 0.28168  -18.456452  -100.066016   -1.168297
-0.007234   -0.373510   -93.578583
 0.42251  -18.456452  -100.066016   -1.168297
-0.007234   -0.924818  -132.051458
 0.56335  -18.456452  -100.066016   -1.168297
-0.007234   -1.485696  -195.583788

COMB  DESIGN ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   12.592588  173.617524   1.339054
 0.006689   0.760810  150.050177
 0.14084   12.592588  173.617524   1.339054
 0.006689   0.198004  157.261182
 0.28168   12.592588  173.617524   1.339054
 0.006689   0.323745  167.979711
 0.42251   12.592588  173.617524   1.339054
 0.006689   0.807160  190.092041
 0.56335   12.592588  173.617524   1.339054
 0.006689   1.294157  222.528104

COMB  DESIGN ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -18.456452  -100.066016   -1.168297
-0.007234   -0.671014   -78.743570
 0.14084  -18.456452  -100.066016   -1.168297
-0.007234   -0.182164   -63.752669
 0.28168  -18.456452  -100.066016   -1.168297
-0.007234   -0.373510   -93.578583
 0.42251  -18.456452  -100.066016   -1.168297
-0.007234   -0.924818  -132.051458
 0.56335  -18.456452  -100.066016   -1.168297
-0.007234   -1.485696  -195.583788

ELEM      236 ================== LENGTH
=    2.976966

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43669   0.439974  73.734275   0.379849
 0.000150   0.424340  101.705807
 0.57751   0.439974  73.734275   0.379849
 0.000150   0.265093   70.849419
 0.71834   0.439974  73.734275   0.379849
 0.000150   0.105855   40.072829
 0.85917   0.439974  73.734275   0.379849
 0.000150   0.057144   9.576050
 1.00000   0.439974  73.734275   0.379849
 0.000150   0.228688   2.160722

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43669  -10.662409  -10.224034   -0.409196
-0.001246   -0.457526   -23.231902
 0.57751  -10.662409  -10.224034   -0.409196
-0.001246   -0.285974   -19.089879
 0.71834  -10.662409  -10.224034   -0.409196
-0.001246   -0.114415   -15.340723
 0.85917  -10.662409  -10.224034   -0.409196
-0.001246   -0.053405   -11.782786
 1.00000  -10.662409  -10.224034   -0.409196
-0.001246   -0.212657   -23.225334

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43669   4.944204  104.988975   0.661999
 0.006310   0.715949  195.149722
 0.57751   4.944204  104.988975   0.661999
 0.006310   0.438635  154.183720
 0.71834   4.944204  104.988975   0.661999
 0.006310   0.183829  127.670233
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2588

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.85917   4.944204  104.988975   0.661999
 0.006310   0.095503  118.168199
 1.00000   4.944204  104.988975   0.661999
 0.006310   0.300993  122.304596

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43669  -13.468486  -94.008339   -0.528422
-0.007717   -0.591089   -52.903468
 0.57751  -13.468485  -94.008339   -0.528422
-0.007717   -0.369555   -28.765989
 0.71834  -13.468485  -94.008339   -0.528422
-0.007717   -0.147971   -21.640492
 0.85917  -13.468485  -94.008339   -0.528422
-0.007717   -0.118886   -16.513457
 1.00000  -13.468485  -94.008339   -0.528422
-0.007717   -0.396047   -11.688041

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43669   8.325356  94.709776   0.844549
 0.004763   0.931079  185.734724
 0.57751   8.325356  94.709776   0.844549
 0.004763   0.577159  149.242040
 0.71834   8.325356  94.709776   0.844549
 0.004763   0.238701  123.276933
 0.85917   8.325356  94.709776   0.844549
 0.004763   0.104423  111.100968
 1.00000   8.325356  94.709776   0.844549
 0.004763   0.359912  120.824607

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43669  -12.485656  -121.980703   -0.635673
-0.005712   -0.710125   -98.015996
 0.57751  -12.485656  -121.980703   -0.635673
-0.005712   -0.443666   -56.751874
 0.71834  -12.485656  -121.980703   -0.635673
-0.005712   -0.177142   -25.523079
 0.85917  -12.485656  -121.980703   -0.635673
-0.005712   -0.133274   -16.338007
 1.00000  -12.485656  -121.980703   -0.635673
-0.005712   -0.486749   -12.466895

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43669   9.937063  82.804290   0.927137
 0.004313   1.026430  164.071701
 0.57751   9.937063  82.804290   0.927137
 0.004313   0.637880  132.048170
 0.71834   9.937063  82.804290   0.927137
 0.004313   0.262190  108.774897
 0.85917   9.937063  82.804290   0.927137
 0.004313   0.122006   96.977036
 1.00000   9.937063  82.804290   0.927137
 0.004313   0.440223  103.441333

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43669  -10.955406  -117.931208   -0.780642
-0.004744   -0.872227   -130.306323
 0.57751  -10.955406  -117.931208   -0.780642
-0.004744   -0.544980   -89.353160
 0.71834  -10.955406  -117.931208   -0.780642
-0.004744   -0.217679   -57.153023
 0.85917  -10.955406  -117.931208   -0.780642
-0.004744   -0.141860   -43.626716
 1.00000  -10.955406  -117.931208   -0.780642
-0.004744   -0.529665   -34.141952

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43669   5.871393   9.328422   0.335734
 0.005501   0.356923  51.344400
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2589

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.57751   5.871393   9.328422   0.335734
 0.005501   0.216364  50.960086
 0.71834   5.871393   9.328422   0.335734
 0.005501   0.094711  63.099339
 0.85917   5.871393   9.328422   0.335734
 0.005501   0.033658  92.084146
 1.00000   5.871393   9.328422   0.335734
 0.005501   0.064765  132.657640

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43669  -0.858050  -101.560685   -0.106427
```

```
-0.005504   -0.118715   -44.976904
0.57751     -0.858050  -101.560685     -0.106427
-0.005504   -0.074094   -15.362984
0.71834     -0.858050  -101.560685     -0.106427
-0.005504   -0.029417    -4.302182
0.85917     -0.858050  -101.560685     -0.106427
-0.005504   -0.067501    -3.387540
1.00000     -0.858050  -101.560685     -0.106427
-0.005504   -0.207756    -2.616334

COMB DB-G2-2 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   10.350841   9.909167    0.610761
 0.005607  0.669104   55.790212
0.57751   10.350841   9.909167    0.610761
 0.005607  0.413246   55.292802
0.71834   10.350841   9.909167    0.610761
 0.005607  0.175150   66.819409
0.85917   10.350841   9.909167    0.610761
 0.005607  0.066193   94.043127
1.00000   10.350841   9.909167    0.610761
 0.005607  0.197937  137.447548

COMB DB-G2-2 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669  -1.494738 -136.894941    -0.344428
-0.005161  -0.384264 -105.611202
0.57751  -1.494738 -136.894941    -0.344428
-0.005161  -0.239908  -59.815816
0.71834  -1.494738 -136.894941    -0.344428
-0.005161  -0.095513  -25.957173
0.85917  -1.494738 -136.894941    -0.344428
-0.005161  -0.102175  -16.984865
1.00000  -1.494738 -136.894941    -0.344428
-0.005161  -0.356921  -13.204385

COMB DB-G2-3 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   9.500405   84.218562    0.786859
 0.004124  0.870244  196.368517
0.57751   9.500405   84.218562    0.786859
 0.004124  0.540506  164.002144
0.71834   9.500405   84.218562    0.786859
 0.004124  0.223427  140.411890
0.85917   9.500405   84.218562    0.786859
 0.004124  0.094196  128.808292
1.00000   9.500405   84.218562    0.786859
 0.004124  0.329515  132.495165

COMB DB-G2-3 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669  -9.703662 -120.409949    -0.582718
-0.004458  -0.650882 -109.009221
0.57751  -9.703662 -120.409949    -0.582718
-0.004458  -0.406606  -66.835902
0.71834  -9.703662 -120.409949    -0.582718
-0.004458  -0.162285  -33.497727
0.85917  -9.703662 -120.409949    -0.582718
-0.004458  -0.121840  -23.246229
1.00000  -9.703662 -120.409949    -0.582718
-0.004458  -0.450631  -17.391558
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                2590

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   10.847348   75.025780    0.897301
 0.003793  0.995121  176.077692
0.57751   10.847348   75.025780    0.897301
 0.003793  0.619053  147.072831
0.71834   10.847348   75.025780    0.897301
 0.003793  0.253547  125.409515
0.85917   10.847348   75.025780    0.897301
 0.003793  0.116801  113.759090
1.00000   10.847348   75.025780    0.897301
 0.003793  0.427821  114.807788

COMB DB-G2-4 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -8.335929 -112.867027    -0.759733
-0.003731  -0.848901  -139.861945
0.57751   -8.335929 -112.867027    -0.759733
-0.003731  -0.530405   -99.530629
0.71834   -8.335929 -112.867027    -0.759733
-0.003731  -0.211880   -66.550765
0.85917   -8.335929 -112.867027    -0.759733
-0.003731  -0.135328   -52.698158
1.00000   -8.335929 -112.867027    -0.759733
-0.003731  -0.510744   -42.877961

COMB DB-G3-1 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   4.635324    8.321275    0.383661
 0.000533  0.429176   21.939723
0.57751   4.635324    8.321275    0.383661
 0.000533  0.268331   18.460341
0.71834   4.635324    8.321275    0.383661
 0.000533  0.107507   15.004231
0.85917   4.635324    8.321275    0.383661
 0.000533  0.060379   11.618355
1.00000   4.635324    8.321275    0.383661
 0.000533  0.241838   8.268995

COMB DB-G3-1 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -0.318743   -17.701025    -0.432748
-7.02E-06   -0.483873   -74.967964
0.57751   -0.318743   -17.701025    -0.432748
-7.02E-06   -0.302447   -67.744685
0.71834   -0.318743   -17.701025    -0.432748
-7.02E-06   -0.121010   -60.544289
0.85917   -0.318743   -17.701025    -0.432748
-7.02E-06   -0.053306   -53.371322
1.00000   -0.318743   -17.701025    -0.432748
-7.02E-06   -0.214215   -46.276446

COMB DB-G3-2 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   8.547699    11.724114    0.636135
 0.001150  0.712833   29.978395
0.57751   8.547699    11.724114    0.636135
 0.001150  0.446179   25.457247
0.71834   8.547699    11.724114    0.636135
 0.001150  0.180363   21.552952
0.85917   8.547699    11.724114    0.636135
 0.001150  0.097027   18.229426
1.00000   8.547699    11.724114    0.636135
 0.001150  0.385579   15.579934

COMB DB-G3-2 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -1.151846   -45.302194    -0.689159
-0.000203   -0.770310  -131.183838
0.57751   -1.151846   -45.302194    -0.689159
-0.000203   -0.481378  -113.361061
0.71834   -1.151846   -45.302194    -0.689159
-0.000203   -0.192408   -96.481701
0.85917   -1.151846   -45.302194    -0.689159
-0.000203   -0.088164   -79.985762
1.00000   -1.151846   -45.302194    -0.689159
-0.000203   -0.354136   -64.121545

Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                2591

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   11.804479   11.142000    0.831323
 0.001555  0.933159   48.953031
0.57751   11.804479   11.142000    0.831323
 0.001555  0.584669   45.966310
0.71834   11.804479   11.142000    0.831323
 0.001555  0.237556   44.849911
0.85917   11.804479   11.142000    0.831323
 0.001555  0.102760   48.053165
1.00000   11.804479   11.142000    0.831323
 0.001555  0.404572   66.555954

COMB DB-G3-3 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -1.129635   -99.197328    -0.721778
-0.000552   -0.806105  -161.345614
0.57751   -1.129635   -99.197328    -0.721778
-0.000552   -0.503549  -120.918334
0.71834   -1.129635   -99.197328    -0.721778
-0.000552   -0.200963   -82.687218
0.85917   -1.129635   -99.197328    -0.721778
-0.000552   -0.113659   -68.270285
1.00000   -1.129635   -99.197328    -0.721778
-0.000552   -0.461360   -58.035023

COMB DB-G3-4 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   12.122890   60.101061    0.927282
 0.004411  1.026939  158.010251
0.57751   12.122890   60.101061    0.927282
 0.004411  0.638323  136.143891
0.71834   12.122890   60.101061    0.927282
 0.004411  0.262154  122.190009
0.85917   12.122890   60.101061    0.927282
 0.004411  0.119024  119.547658
1.00000   12.122890   60.101061    0.927282
 0.004411  0.429955  129.184533

COMB DB-G3-4 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -5.929118 -118.737149    -0.762604
-0.003968   -0.852152 -150.740838
0.57751   -5.929118 -118.737149    -0.762604
-0.003968   -0.532501 -109.221746
0.71834   -5.929118 -118.737149    -0.762604
-0.003968   -0.212760   -76.150610
0.85917   -5.929118 -118.737149    -0.762604
-0.003968   -0.141464   -62.064726
1.00000   -5.929118 -118.737149    -0.762604
-0.003968   -0.529357   -51.876747

COMB DL-G1-1 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   0.517865    71.221814    0.594440
 0.000153  0.664591   95.381689
0.57751   0.517865    71.221814    0.594440
 0.000153  0.415497   65.876320
0.71834   0.517865    71.221814    0.594440
 0.000153  0.166435   36.716853
0.85917   0.517865    71.221814    0.594440
 0.000153  0.098876    8.752111
1.00000   0.517865    71.221814    0.594440
 0.000153  0.384526    2.458827

COMB DL-G1-1 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -10.219998  -13.552088    -0.682632
-0.001174   -0.760294   -33.732603
0.57751   -10.219998  -13.552088    -0.682632
-0.001174   -0.474118   -28.421600
0.71834   -10.219998  -13.552088    -0.682632
-0.001174   -0.188136   -23.569254
0.85917   -10.219998  -13.552088    -0.682632
-0.001174   -0.082445   -19.762705
1.00000   -10.219998  -13.552088    -0.682632
-0.001174   -0.331090   -35.575096
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                2592

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   5.771440    100.001657    1.055644
 0.006282  1.154829   190.731216
0.57751   5.771440    100.001657    1.055644
 0.006282  0.712747   154.178234
0.71834   5.771440    100.001657    1.055644
 0.006282  0.291588   131.061066
0.85917   5.771440    100.001657    1.055644
 0.006282  0.150070   123.892140
1.00000   5.771440    100.001657    1.055644
 0.006282  0.498689   130.440340

COMB DL-G1-2 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -12.621778   -95.156922    -0.846950
-0.007614   -0.943899   -70.558224
0.57751   -12.621778   -95.156922    -0.846950
-0.007614   -0.589317   -40.336382
0.71834   -12.621778   -95.156922    -0.846950
-0.007614   -0.234928   -31.010582
0.85917   -12.621778   -95.156922    -0.846950
-0.007614   -0.177972   -24.265773
1.00000   -12.621778   -95.156922    -0.846950
-0.007614   -0.618475   -26.413050

COMB DL-G1-3 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   8.632082    90.099095    1.357593
 0.004836  1.501985   177.614908
0.57751   8.632082    90.099095    1.357593
 0.004836  0.933427   145.188524
0.71834   8.632082    90.099095    1.357593
 0.004836  0.379828   123.887742
0.85917   8.632082    90.099095    1.357593
 0.004836  0.169507   121.056351
1.00000   8.632082    90.099095    1.357593
 0.004836  0.606283   135.174908

COMB DL-G1-3 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -11.688822  -118.762163    -1.053611
-0.005806   -1.175159  -103.791416
0.57751   -11.688822  -118.762163    -1.053611
-0.005806   -0.733545   -62.082588
0.71834   -11.688822  -118.762163    -1.053611
-0.005806   -0.291849   -35.847167
0.85917   -11.688822  -118.762163    -1.053611
-0.005806   -0.210383   -23.792939
1.00000   -11.688822  -118.762163    -1.053611
-0.005806   -0.777444   -24.901714

COMB DL-G1-4 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   9.939684    80.125359    1.559956
 0.004333  1.732314   160.803519
0.57751   9.939684    80.125359    1.559956
 0.004333  1.078839   131.684237
0.71834   9.939684    80.125359    1.559956
 0.004333  0.437783   111.824170
0.85917   9.939684    80.125359    1.559956
 0.004333  0.198336   107.312857
1.00000   9.939684    80.125359    1.559956
 0.004333  0.733923   116.873235

COMB DL-G1-4 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -10.331132  -117.056219    -1.287160
-0.004823   -1.436283  -139.766380
0.57751   -10.331132  -117.056219    -1.287160
-0.004823   -0.896538   -97.641430
0.71834   -10.331132  -117.056219    -1.287160
-0.004823   -0.356769   -68.546150
0.85917   -10.331132  -117.056219    -1.287160
-0.004823   -0.233699   -51.646410
1.00000   -10.331132  -117.056219    -1.287160
-0.004823   -0.886011   -45.566173
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                2593

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   6.108812    9.608175    0.508011
 0.004588  0.549521   55.986815
0.57751   6.108812    9.608175    0.508011
 0.004588  0.336740   57.833014
0.71834   6.108812    9.608175    0.508011
 0.004588  0.138735   71.302694
0.85917   6.108812    9.608175    0.508011
 0.004588  0.044242   99.360143
1.00000   6.108812    9.608175    0.508011
 0.004588  0.111971   133.189019

COMB DL-G2-1 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -0.896955   -89.801907    -0.171375
-0.004625   -0.190474   -46.822138
0.57751   -0.896955   -89.801907    -0.171375
-0.004625   -0.119002   -17.643385
0.71834   -0.896955   -89.801907    -0.171375
-0.004625   -0.047524    -5.975968
0.85917   -0.896955   -89.801907    -0.171375
-0.004625   -0.093791    -4.705474
1.00000   -0.896955   -89.801907    -0.171375
-0.004625   -0.305491    -3.487924

COMB DL-G2-2 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   9.938221    10.911707    0.985158
 0.004788  1.086903   58.433113
0.57751   9.938221    10.911707    0.985158
 0.004788  0.674358   59.520161
0.71834   9.938221    10.911707    0.985158
 0.004788  0.224349   71.676482
0.85917   9.938221    10.911707    0.985158
 0.004788  0.102801   102.798625
1.00000   9.938221    10.911707    0.985158
 0.004788  0.350770   142.176302

COMB DL-G2-2 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -1.568494   -122.754907    -0.601343
-0.004468   -0.670664   -99.522932
0.57751   -1.568494   -122.754907    -0.601343
-0.004468   -0.418356   -56.249692
0.71834   -1.568494   -122.754907    -0.601343
-0.004468   -0.166032   -28.247136
0.85917   -1.568494   -122.754907    -0.601343
-0.004468   -0.157454   -17.849726
1.00000   -1.568494   -122.754907    -0.601343
-0.004468   -0.569095   -13.465834

COMB DL-G2-3 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   9.158465    81.490122    1.328002
 0.003277  1.475565   196.127066
0.57751   9.158465    81.490122    1.328002
 0.003277  0.913418   166.467701
0.71834   9.158465    81.490122    1.328002
 0.003277  0.372227   144.800525
0.85917   9.158465    81.490122    1.328002
 0.003277  0.145143   138.000404
1.00000   9.158465    81.490122    1.328002
 0.003277  0.541874   138.815710

COMB DL-G2-3 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -8.960456   -109.190456    -0.952485
-0.003644   -1.093361   -108.914800
0.57751   -8.960454   -109.190456    -0.952485
-0.003644   -0.663783   -69.091802
0.71834   -8.960454   -109.190456    -0.952485
-0.003644   -0.264412   -40.016047
0.85917   -8.960454   -109.190456    -0.952485
-0.003644   -0.197715   -27.386589
1.00000   -8.960454   -109.190456    -0.952485
-0.003644   -0.753128   -19.976333
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                2594

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   10.573306   74.572689    1.582343
 0.003065  1.762796   181.506740
0.57751   10.573306   74.572689    1.582343
 0.003065  1.099881   153.984810
0.71834   10.573306   74.572689    1.582343
 0.003065  0.444559   133.141988
0.85917   10.573306   74.572689    1.582343
 0.003065  0.178340   124.769978
1.00000   10.573306   74.572689    1.582343
 0.003065  0.682679   122.818778

COMB DL-G2-4 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -7.754366  -106.256635    -1.208280
-0.003055   -1.349809   -147.584036
0.57751   -7.754366  -106.256635    -1.208280
-0.003055   -0.842972   -108.215268
0.71834   -7.754366  -106.256635    -1.208280
-0.003055   -0.336016    -77.764377
0.85917   -7.754366  -106.256635    -1.208280
-0.003055   -0.229870    -60.890059
1.00000   -7.754366  -106.256635    -1.208280
-0.003055   -0.892159   -48.700374

COMB DL-G3-1 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   4.832959    11.552773    0.772970
 0.000488  0.865693   31.990394
0.57751   4.832959    11.552773    0.772970
 0.000488  0.541605   27.158633
0.71834   4.832959    11.552773    0.772970
 0.000488  0.217560   22.354090
0.85917   4.832959    11.552773    0.772970
 0.000488  0.087094   17.573159
1.00000   4.832959    11.552773    0.772970
 0.000488  0.353205   12.848053

COMB DL-G3-1 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -0.323561   -21.233701    -0.633214
-4.11E-06   -0.707915   -88.362694
0.57751   -0.323561   -21.233701    -0.633214
-4.11E-06   -0.442318   -79.586084
0.71834   -0.323561   -21.233701    -0.633214
-4.11E-06   -0.176401   -70.832856
0.85917   -0.323561   -21.233701    -0.633214
-4.11E-06   -0.106457   -62.155701
1.00000   -0.323561   -21.233701    -0.633214
-4.11E-06   -0.430598   -53.557001

COMB DL-G3-2 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   8.325544    15.890439    1.247792
 0.000992  1.397850   42.697878
0.57751   8.325544    15.890439    1.247792
 0.000992  0.874780   36.346081
0.71834   8.325544    15.890439    1.247792
 0.000992  0.352143   30.318250
0.85917   8.325544    15.890439    1.247792
 0.000992  0.152612   24.809159
1.00000   8.325544    15.890439    1.247792
 0.000992  0.612345   20.206380

COMB DL-G3-2 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -1.287538   -49.446418    -1.094805
-0.000131   -1.222893   -147.180753
0.57751   -1.287538   -49.446418    -1.094805
-0.000131   -0.763652   -127.136316
0.71834   -1.287538   -49.446418    -1.094805
-0.000131   -0.304156   -107.841462
0.85917   -1.287538   -49.446418    -1.094805
-0.000131   -0.171664   -89.521977
1.00000   -1.287538   -49.446418    -1.094805
-0.000131   -0.694877   -72.241740
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                2595

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   11.353948   14.633602    1.502000
 0.001085  1.683157   57.368096
0.57751   11.353948   14.633602    1.502000
 0.001085  1.053764   53.998602
0.71834   11.353948   14.633602    1.502000
 0.001085  0.424398   53.423856
0.85917   11.353948   14.633602    1.502000
 0.001085  0.157162   61.568607
1.00000   11.353948   14.633602    1.502000
 0.001085  0.636421   77.300687

COMB DL-G3-3 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -1.198108   -94.106629    -1.141116
-0.000229   -1.274779   -166.478410
0.57751   -1.198108   -94.106629    -1.141116
-0.000229   -0.795785   -129.480398
0.71834   -1.198108   -94.106629    -1.141116
-0.000229   -0.316453   -95.071435
0.85917   -1.198108   -94.106629    -1.141116
-0.000229   -0.206830   -78.132985
1.00000   -1.198108   -94.106629    -1.141116
-0.000229   -0.836793   -65.369647

COMB DL-G3-4 ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   11.860568   61.936682    1.649323
 0.003356  1.836517  170.671622
0.57751   11.860568   61.936682    1.649323
 0.003356  1.145437  148.708388
0.71834   11.860568   61.936682    1.649323
 0.003356  0.462770  133.912587
0.85917   11.860568   61.936682    1.649323
 0.003356  0.175694  131.980254
1.00000   11.860568   61.936682    1.649323
 0.003356  0.673472  136.294208

COMB DL-G3-4 ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -5.588397   -109.571460    -1.190886
-0.002993   -1.330395   -160.050460
0.57751   -5.588397   -109.571460    -1.190886
-0.002993   -0.830773   -119.633533
0.71834   -5.588397   -109.571460    -1.190886
-0.002993   -0.330839   -88.855492
0.85917   -5.588397   -109.571460    -1.190886
-0.002993   -0.240603   -72.259755
1.00000   -5.588397   -109.571460    -1.190886
-0.002993   -0.931231   -59.349428

COMB      DB ---------- MAX

REL DIST         P          V2          V3
      T         M2          M3
0.43669   12.122890   104.988975    0.927282
 0.006310  1.026939   196.368517
0.57751   12.122890   104.988975    0.927282
 0.006310  0.638323   164.002144
0.71834   12.122890   104.988975    0.927282
 0.006310  0.262190   140.411890
0.85917   12.122890   104.988975    0.927282
 0.006310  0.122006   128.808292
1.00000   12.122890   104.988975    0.927282
 0.006310  0.440223   137.447548

COMB      DB ---------- MIN

REL DIST         P          V2          V3
      T         M2          M3
0.43669   -13.468485  -136.894941    -0.780642
-0.007717   -0.872227   -161.345614
0.57751   -13.468485  -136.894941    -0.780642
-0.007717   -0.544980   -120.918334
0.71834   -13.468485  -136.894941    -0.780642
-0.007717   -0.217679   -96.481701
0.85917   -13.468485  -136.894941    -0.780642
-0.007717   -0.141860   -79.985762
1.00000   -13.468485  -136.894941    -0.780642
-0.007717   -0.529665   -64.121545
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                2596

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S
```

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	11.860568	100.001657	1.649323
0.006282	1.836517	196.127066	
0.57751	11.860568	100.001657	1.649323
0.006282	1.145437	166.467701	
0.71834	11.860568	100.001657	1.649323
0.006282	0.462770	144.800525	
0.85917	11.860568	100.001657	1.649323
0.006282	0.198336	138.000404	
1.00000	11.860568	100.001657	1.649323
0.006282	0.733923	142.176302	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-12.621778	-122.754907	-1.287160
-0.007614	-1.436283	-166.478410	
0.57751	-12.621778	-122.754907	-1.287160
-0.007614	-0.896538	-129.480388	
0.71834	-12.621778	-122.754907	-1.287160
-0.007614	-0.356769	-107.841462	
0.85917	-12.621778	-122.754907	-1.287160
-0.007614	-0.240603	-89.521977	
1.00000	-12.621778	-122.754907	-1.287160
-0.007614	-0.931231	-72.017140	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	12.122890	104.988975	1.649323
0.006310	1.836517	196.368517	
0.57751	12.122890	104.988975	1.649323
0.006310	1.145437	166.467701	
0.71834	12.122890	104.988975	1.649323
0.006310	0.462770	144.800525	
0.85917	12.122890	104.988975	1.649323
0.006310	0.198336	138.000404	
1.00000	12.122890	104.988975	1.649323
0.006310	0.733923	142.176302	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-13.468485	-136.894941	-1.287160
-0.007717	-1.436283	-166.478410	
0.57751	-13.468485	-136.894941	-1.287160
-0.007717	-0.896538	-129.480388	
0.71834	-13.468485	-136.894941	-1.287160
-0.007717	-0.356769	-107.841462	
0.85917	-13.468485	-136.894941	-1.287160
-0.007717	-0.240603	-89.521977	
1.00000	-13.468485	-136.894941	-1.287160
-0.007717	-0.931231	-72.017140	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	12.122890	104.988975	1.649323
0.006310	1.836517	196.368517	
0.57751	12.122890	104.988975	1.649323
0.006310	1.145437	166.467701	
0.71834	12.122890	104.988975	1.649323
0.006310	0.462770	144.800525	
0.85917	12.122890	104.988975	1.649323
0.006310	0.198336	138.000404	
1.00000	12.122890	104.988975	1.649323
0.006310	0.733923	142.176302	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-13.468485	-136.894941	-1.287160
-0.007717	-1.436283	-166.478410	
0.57751	-13.468485	-136.894941	-1.287160
-0.007717	-0.896538	-129.480388	
0.71834	-13.468485	-136.894941	-1.287160
-0.007717	-0.356769	-107.841462	
0.85917	-13.468485	-136.894941	-1.287160
-0.007717	-0.240603	-89.521977	
1.00000	-13.468485	-136.894941	-1.287160
-0.007717	-0.931231	-72.017140	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2597

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 237 ========== LENGTH = 2.978023

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.447015	72.937319	0.386609
7.31E-06	0.218550	2.160981	
0.14087	0.447015	72.937319	0.386609
7.31E-06	0.056355	2.846592	
0.28173	0.447015	72.937319	0.386609
7.31E-06	0.114374	3.842918	
0.42260	0.447015	72.937319	0.386609
7.31E-06	0.289952	7.396488	
0.56347	0.447015	72.937319	0.386609
7.31E-06	0.465523	11.301962	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.594418	-10.031347	-0.418520
-0.001122	-0.236768	-23.262181	
0.14087	-10.594418	-10.031347	-0.418520
-0.001122	-0.061181	-53.409411	
0.28173	-10.594418	-10.031347	-0.418520
-0.001122	-0.105628	-83.925531	
0.42260	-10.594418	-10.031347	-0.418520
-0.001122	-0.268006	-114.451173	
0.56347	-10.594418	-10.031347	-0.418520
-0.001122	-0.430190	-145.006194	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.285045	169.949460	0.671891
0.006138	0.404646	122.694081	
0.14087	2.285045	169.949460	0.671891
0.006138	0.133627	98.022319	
0.28173	2.285045	169.949460	0.671891
0.006138	0.147818	74.703914	
0.42260	2.285045	169.949460	0.671891
0.006138	0.375116	70.787901	
0.56347	2.285045	169.949460	0.671891
0.006138	0.602359	80.714977	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.613467	-32.700291	-0.541702
-0.007733	-0.312266	-11.725969	
0.14087	-17.613467	-32.700291	-0.541702
-0.007733	-0.101432	-50.045707	
0.28173	-17.613467	-32.700291	-0.541702
-0.007733	-0.184544	-88.619146	
0.42260	-17.613467	-32.700291	-0.541702
-0.007733	-0.442662	-129.623614	
0.56347	-17.613467	-32.700291	-0.541702
-0.007733	-0.724406	-192.245102	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.623760	138.646494	0.881166
0.004321	0.513984	121.056435	
0.14087	6.623760	138.646494	0.881166
0.004321	0.144641	127.801815	
0.28173	6.623760	138.646494	0.881166
0.004321	0.177270	136.008552	
0.42260	6.623760	138.646494	0.881166
0.004321	0.447685	157.807007	
0.56347	6.623760	138.646494	0.881166
0.004321	0.718032	189.081823	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.270489	-81.010939	-0.644539
-0.005666	-0.367354	-12.438410	
0.14087	-15.270489	-81.010939	-0.644539
-0.005666	-0.108102	-47.328216	
0.28173	-15.270489	-81.010939	-0.644539
-0.005666	-0.242722	-83.441715	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2598

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.42260	-15.270489	-81.010939	-0.644539
-0.005666	-0.596143	-121.138078	
0.56347	-15.270489	-81.010939	-0.644539
-0.005666	-0.965717	-173.501560	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.565273	119.361089	0.967180
0.004131	0.559434	103.642762	
0.14087	8.565273	119.361089	0.967180
0.004131	0.153923	107.957061	
0.28173	8.565273	119.361089	0.967180
0.004131	0.217977	116.462691	
0.42260	8.565273	119.361089	0.967180
0.004131	0.549741	137.172724	
0.56347	8.565273	119.361089	0.967180
0.004131	0.881445	168.018711	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.270501	-84.260956	-0.790777
-0.004755	-0.448682	-34.132603	
0.14087	-13.270501	-84.260956	-0.790777
-0.004755	-0.126140	-56.571359	
0.28173	-13.270501	-84.260956	-0.790777
-0.004755	-0.266498	-81.195575	
0.42260	-13.270501	-84.260956	-0.790777
-0.004755	-0.658779	-108.296943	
0.56347	-13.270501	-84.260956	-0.790777
-0.004755	-1.064450	-148.686813	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.696045	64.651444	0.349344
0.005132	0.217446	132.965632	
0.14087	3.696045	64.651444	0.349344
0.005132	0.071377	125.329659	
0.28173	3.696045	64.651444	0.349344
0.005132	0.029466	117.851335	
0.42260	3.696045	64.651444	0.349344
0.005132	0.074083	125.238976	
0.56347	3.696045	64.651444	0.349344
0.005132	0.118643	143.802713	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.395443	-50.877467	-0.106215
-0.005311	-0.064348	-2.605787	
0.14087	-4.395443	-50.877467	-0.106215
-0.005311	-0.033516	-1.957519	
0.28173	-4.395443	-50.877467	-0.106215
-0.005311	-0.096986	-1.423216	
0.42260	-4.395443	-50.877467	-0.106215
-0.005311	-0.222642	-1.230562	
0.56347	-4.395443	-50.877467	-0.106215
-0.005311	-0.370096	-22.426250	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.409641	61.438949	0.652677
0.005205	0.386726	137.718065	
0.14087	8.409641	61.438949	0.652677
0.005205	0.113300	144.119813	
0.28173	8.409641	61.438949	0.652677
0.005205	0.095782	154.201502	
0.42260	8.409641	61.438949	0.652677
0.005205	0.240067	178.430979	
0.56347	8.409641	61.438949	0.652677
0.005205	0.384282	213.566108	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.778187	-90.427516	-0.343873
-0.005160	-0.197136	-13.198750	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2599

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.14087	-4.778187	-90.427516	-0.343873
-0.005160	-0.065673	-9.499924	
0.28173	-4.778187	-90.427516	-0.343873
-0.005160	-0.180844	-6.576527	
0.42260	-4.778187	-90.427516	-0.343873
-0.005160	-0.436059	-7.474565	
0.56347	-4.778187	-90.427516	-0.343873
-0.005160	-0.709770	-26.479884	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.153927	119.734960	0.825073
0.003873	0.478883	132.644102	
0.14087	8.153927	119.734960	0.825073
0.003873	0.133016	124.904678	
0.28173	8.153927	119.734960	0.825073
0.003873	0.162504	137.928606	
0.42260	8.153927	119.734960	0.825073
0.003873	0.409716	163.704073	
0.56347	8.153927	119.734960	0.825073
0.003873	0.656884	197.761890	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.952245	-87.662133	-0.589243
-0.004639	-0.334987	-17.374396	
0.14087	-11.952245	-87.662133	-0.589243
-0.004639	-0.096744	-17.762916	
0.28173	-11.952245	-87.662133	-0.589243
-0.004639	-0.227523	-46.918922	
0.42260	-11.952245	-87.662133	-0.589243
-0.004639	-0.560472	-79.178791	
0.56347	-11.952245	-87.662133	-0.589243
-0.004639	-0.906529	-124.554138	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.757154	104.884210	0.932822
0.003777	0.537444	114.940161	
0.14087	9.757154	104.884210	0.932822
0.003777	0.146252	106.407300	
0.28173	9.757154	104.884210	0.932822
0.003777	0.212216	115.296702	
0.42260	9.757154	104.884210	0.932822
0.003777	0.534784	136.117495	
0.56347	9.757154	104.884210	0.932822
0.003777	0.857299	164.443544	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.229353	-85.577267	-0.768834
-0.003872	-0.435420	-42.876118	
0.14087	-10.229353	-85.577267	-0.768834
-0.003872	-0.120288	-38.190358	
0.28173	-10.229353	-85.577267	-0.768834
-0.003872	-0.257032	-57.355759	
0.42260	-10.229353	-85.577267	-0.768834
-0.003872	-0.637348	-78.818211	
0.56347	-10.229353	-85.577267	-0.768834
-0.003872	-1.028617	-111.072331	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.689466	8.550567	0.392794
0.000850	0.221670	8.280688	
0.14087	4.689466	8.550567	0.392794
0.000850	0.056800	5.666411	
0.28173	4.689466	8.550567	0.392794
0.000850	0.121262	2.470628	
0.42260	4.689466	8.550567	0.392794
0.000850	0.305306	2.244464	
0.56347	4.689466	8.550567	0.392794
0.000850	0.489340	2.362358	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2600

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.312749	-17.891247	-0.438691
-1.51E-05	-0.246801	-46.295156	
0.14087	-0.312749	-17.891247	-0.438691
-1.51E-05	-0.062738	-39.301283	
0.28173	-0.312749	-17.891247	-0.438691
-1.51E-05	-0.107914	-32.455752	
0.42260	-0.312749	-17.891247	-0.438691
-1.51E-05	-0.272670	-25.665691	
0.56347	-0.312749	-17.891247	-0.438691
-1.51E-05	-0.437449	-18.909064	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.570993	14.122462	0.664969
0.001657	0.375693	15.607961	
0.14087	8.570993	14.122462	0.664969
0.001657	0.096750	13.744003	
0.28173	8.570993	14.122462	0.664969
0.001657	0.139283	17.829408	
0.42260	8.570993	14.122462	0.664969
0.001657	0.485263	25.740326	
0.56347	8.570993	14.122462	0.664969
0.001657	0.777604	34.920999	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.274682	-44.115404	-0.696842
-0.000365	-0.391923	-64.152407	
0.14087	-1.274682	-44.115404	-0.696842
-0.000365	-0.093676	-51.591905	
0.28173	-1.274682	-44.115404	-0.696842
-0.000365	-0.183100	-39.972136	
0.42260	-1.274682	-44.115404	-0.696842
-0.000365	-0.461297	-30.891213	
0.56347	-1.274682	-44.115404	-0.696842
-0.000365	-0.740253	-24.180412	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.871736	14.722919	0.879686
0.001555	0.496491	66.553335	
0.14087	11.871736	14.722919	0.879686
0.001555	0.127400	90.104653	
0.28173	11.871736	14.722919	0.879686
0.001555	0.201552	117.369543	
0.42260	11.871736	14.722919	0.879686
0.001555	0.505728	148.473458	
0.56347	11.871736	14.722919	0.879686
0.001555	0.809945	180.851309	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.318004	-97.541789	-0.725196
-0.000517	-0.402248	-58.052992	
0.14087	-1.318004	-97.541789	-0.725196
-0.000517	-0.103711	-47.742666	
0.28173	-1.318004	-97.541789	-0.725196
-0.000517	-0.242956	-38.063992	
0.42260	-1.318004	-97.541789	-0.725196
-0.000517	-0.610735	-30.193706	
0.56347	-1.318004	-97.541789	-0.725196
-0.000517	-0.979762	-24.570300	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.817725	95.736120	0.944525
0.004452	0.546120	129.361948	
0.14087	10.817725	95.736120	0.944525
0.004452	0.150121	117.191608	
0.28173	10.817725	95.736120	0.944525
0.004452	0.213141	120.474571	
0.42260	10.817725	95.736120	0.944525
0.004452	0.536683	137.638508	
0.56347	10.817725	95.736120	0.944525
0.004452	0.860117	164.560610	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2601

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.176233	-86.390106	-0.771135
-0.004154	-0.436979	-51.881406	
0.14087	-8.176233	-86.390106	-0.771135
-0.004154	-0.122328	-41.735781	
0.28173	-8.176233	-86.390106	-0.771135
-0.004154	-0.262895	-47.438952	
0.42260	-8.176233	-86.390106	-0.771135
-0.004154	-0.644709	-60.834916	
0.56347	-8.176233	-86.390106	-0.771135
-0.004154	-1.039717	-86.929531	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.525527	70.567885	0.596263
4.32E-06	0.335649	2.458713	
0.14087	0.525527	70.567885	0.596263
4.32E-06	0.085803	3.074252	
0.28173	0.525527	70.567885	0.596263
4.32E-06	0.189175	4.020030	
0.42260	0.525527	70.567885	0.596263
4.32E-06	0.475685	7.833756	
0.56347	0.525527	70.567885	0.596263
4.32E-06	0.762356	13.086267	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.189537	-13.320003	-0.683369
-0.001061	-0.384250	-35.597682	
0.14087	-10.189537	-13.320003	-0.683369
-0.001061	-0.097339	-61.306750	
0.28173	-10.189537	-13.320003	-0.683369
-0.001061	-0.163497	-87.142105	
0.42260	-10.189537	-13.320003	-0.683369
-0.001061	-0.413508	-114.994030	
0.56347	-10.189537	-13.320003	-0.683369
-0.001061	-0.663792	-144.249712	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.635332	162.452115	1.056015
0.006180	0.621160	130.488271	
0.14087	2.635332	162.452115	1.056015
0.006180	0.179687	104.866146	
0.28173	2.635332	162.452115	1.056015
0.006180	0.235710	80.379989	
0.42260	2.635332	162.452115	1.056015
0.006180	0.594604	75.450769	
0.56347	2.635332	162.452115	1.056015
0.006180	0.953814	86.176729	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.536224	-35.243901	-0.857533
-0.007662	-0.508312	-26.430208	
0.14087	-16.536224	-35.243901	-0.857533
-0.007662	-0.154019	-57.421341	
0.28173	-16.536224	-35.243901	-0.857533
-0.007662	-0.290540	-89.028751	
0.42260	-16.536224	-35.243901	-0.857533
-0.007662	-0.711334	-125.487327	
0.56347	-16.536224	-35.243901	-0.857533
-0.007662	-1.153841	-189.961071	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.472063	134.382600	1.369304
0.004552	0.787789	135.177559	
0.14087	6.472063	134.382600	1.369304
0.004552	0.214747	137.264771	
0.28173	6.472063	134.382600	1.369304
0.004552	0.292681	140.622051	
0.42260	6.472063	134.382600	1.369304
0.004552	0.739463	158.325589	
0.56347	6.472063	134.382600	1.369304
0.004552	1.186376	187.467371	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2602

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.448202	-76.816225	-1.065532
-0.005800	-0.616609	-24.905221	
0.14087	-14.448202	-76.816225	-1.065532
-0.005800	-0.173304	-54.088024	
0.28173	-14.448202	-76.816225	-1.065532
-0.005800	-0.380095	-83.756657	
0.42260	-14.448202	-76.816225	-1.065532
-0.005800	-0.938290	-117.223243	
0.56347	-14.448202	-76.816225	-1.065532
-0.005800	-1.512302	-170.881258	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.170193	117.009506	1.582379
0.004254	0.904354	116.889234	
0.14087	8.170193	117.009506	1.582379
0.004254	0.241745	116.904598	
0.28173	8.170193	117.009506	1.582379
0.004254	0.358154	120.341347	
0.42260	8.170193	117.009506	1.582379
0.004254	0.904248	137.638764	
0.56347	8.170193	117.009506	1.582379
0.004254	1.450412	166.867826	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.625513	-82.502754	-1.301708
-0.004858	-0.745990	-45.585969	
0.14087	-12.625513	-82.502754	-1.301708
-0.004858	-0.202782	-63.101372	
0.28173	-12.625513	-82.502754	-1.301708
-0.004858	-0.439161	-82.236731	
0.42260	-12.625513	-82.502754	-1.301708
-0.004858	-1.089508	-106.134034	
0.56347	-12.625513	-82.502754	-1.301708
-0.004858	-1.752901	-148.806196	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.957225	54.055328	0.501835
0.004330	0.298584	133.202054	
0.14087	3.957225	54.055328	0.501835
0.004330	0.089148	128.773296	
0.28173	3.957225	54.055328	0.501835
0.004330	0.047198	124.451203	
0.42260	3.957225	54.055328	0.501835
0.004330	0.118572	132.000078	
0.56347	3.957225	54.055328	0.501835
0.004330	0.189941	149.609038	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.669070	-48.479539	-0.171263
-0.004504	-0.113282	-3.471555	
0.14087	-3.669070	-48.479539	-0.171263
-0.004504	-0.045247	-2.440560	
0.28173	-3.669070	-48.479539	-0.171263
-0.004504	-0.141407	-1.559784	
0.42260	-3.669070	-48.479539	-0.171263
-0.004504	-0.336338	-2.642164	
0.56347	-3.669070	-48.479539	-0.171263
-0.004504	-0.546542	-22.521165	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.925068	53.458345	0.996476
0.004514	0.575884	142.176872	
0.14087	7.925068	53.458345	0.996476
0.004514	0.158759	149.181050	

```
0.28173     7.925068    53.458345     0.996476
 0.004514    0.166436   159.653702
0.42260     7.925068    53.458345     0.996476
 0.004514    0.420915   182.280528
0.56347     7.925068    53.458345     0.996476
 0.004514    0.675310   214.603414
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2603

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -4.208992    -83.737235    -0.606258
 -0.004503    -0.355737    -13.449241
0.14087    -4.208992    -83.737235    -0.606258
 -0.004503    -0.104749    -9.606089
0.28173    -4.208992    -83.737235    -0.606258
 -0.004503    -0.279717    -7.606996
0.42260    -4.208992    -83.737235    -0.606258
 -0.004503    -0.682628    -8.179368
0.56347    -4.208992    -83.737235    -0.606258
 -0.004503    -1.099981    -27.525109

COMB DL-G2-3 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     7.871403    108.167780     1.339570
 0.003131    0.762127    138.768970
0.14087     7.871403    108.167780     1.339570
 0.003131    0.201049    128.942408
0.28173     7.871403    108.167780     1.339570
 0.003131    0.264802    141.870003
0.42260     7.871403    108.167780     1.339570
 0.003131    0.669783    166.773487
0.56347     7.871403    108.167780     1.339570
 0.003131    1.074887    199.325853

COMB DL-G2-3 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000   -10.618531    -83.900946    -0.965122
 -0.003863    -0.553211    -19.943260
0.14087   -10.618531    -83.900946    -0.965122
 -0.003863    -0.150633    -18.515647
0.28173   -10.618531    -83.900946    -0.965122
 -0.003863    -0.373974    -42.982338
0.42260   -10.618531    -83.900946    -0.965122
 -0.003863    -0.925854    -72.148336
0.56347   -10.618531    -83.900946    -0.965122
 -0.003863    -1.487195   -114.904142

COMB DL-G2-4 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     9.515208    97.148199     1.606768
 0.003124    0.911212    122.793490
0.14087     9.515208    97.148199     1.606768
 0.003124    0.238011    111.672489
0.28173     9.515208    97.148199     1.606768
 0.003124    0.336370    119.135497
0.42260     9.515208    97.148199     1.606768
 0.003124    0.861075    138.671982
0.56347     9.515208    97.148199     1.606768
 0.003124    1.365718    165.608607

COMB DL-G2-4 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -9.153037    -85.222889    -1.226127
 -0.003226    -0.698444    -48.688753
0.14087    -9.153037    -85.222889    -1.226127
 -0.003226    -0.185578    -41.375874
0.28173    -9.153037    -85.222889    -1.226127
 -0.003226    -0.447171    -55.273195
0.42260    -9.153037    -85.222889    -1.226127
 -0.003226    -1.112823    -74.694715
0.56347    -9.153037    -85.222889    -1.226127
 -0.003226    -1.786318   -105.942574

COMB DL-G3-1 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     4.864067    11.825671     0.794677
 0.000805    0.446488    12.868879
0.14087     4.864067    11.825671     0.794677
 0.000805    0.113595    8.261678
0.28173     4.864067    11.825671     0.794677
 0.000805    0.176245    4.010835
0.42260     4.864067    11.825671     0.794677
 0.000805    0.445694    2.707954
0.56347     4.864067    11.825671     0.794677
 0.000805    0.714922    2.757189
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2604

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -0.324362    -21.486598    -0.641451
 -1.14E-05    -0.360777    -53.580852
0.14087    -0.324362    -21.486598    -0.641451
 -1.14E-05    -0.091577    -44.997931
0.28173    -0.324362    -21.486598    -0.641451
 -1.14E-05    -0.220504    -36.540568
0.42260    -0.324362    -21.486598    -0.641451
 -1.14E-05    -0.185379    -30.329243
0.56347    -0.324362    -21.486598    -0.641451
 -1.14E-05    -0.887161    -25.322530

COMB DL-G3-2 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     8.319734    17.606100     1.283879
 0.001470    0.721886    20.237793
0.14087     8.319734    17.606100     1.283879
 0.001470    0.183691    17.433313
0.28173     8.319734    17.606100     1.283879
 0.001470    0.304866    19.956147
0.42260     8.319734    17.606100     1.283879
 0.001470    0.769643    27.606816
0.56347     8.319734    17.606100     1.283879
 0.001470    1.234184    37.218135

COMB DL-G3-2 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -1.369739    -48.918503    -1.106465
 -0.000283    -0.621852    -72.057573
0.14087    -1.369739    -48.918503    -1.106465
 -0.000283    -0.157623    -57.030678
0.28173    -1.369739    -48.918503    -1.106465
 -0.000283    -0.356500    -44.926566
0.42260    -1.369739    -48.918503    -1.106465
 -0.000283    -0.894550    -36.715788
0.56347    -1.369739    -48.918503    -1.106465
 -0.000283    -1.433036    -31.574223

COMB DL-G3-3 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000    11.484716    15.000662     1.537711
 0.001168    0.862291    77.289412
0.14087    11.484716    15.000662     1.537711
 0.001168    0.217102    97.970104
0.28173    11.484716    15.000662     1.537711
 0.001168    0.316921   122.284312
0.42260    11.484716    15.000662     1.537711
 0.001168    0.801043   150.723116
0.56347    11.484716    15.000662     1.537711
 0.001168    1.284930   180.593421

COMB DL-G3-3 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -1.190342    -95.345763    -1.152447
 -0.000193    -0.646141    -65.385374
0.14087    -1.190342    -95.345763    -1.152447
 -0.000193    -0.162594    -52.962180
0.28173    -1.190342    -95.345763    -1.152447
 -0.000193    -0.429806    -42.379076
0.42260    -1.190342    -95.345763    -1.152447
 -0.000193    -1.074519    -35.085591
0.56347    -1.190342    -95.345763    -1.152447
 -0.000193    -1.719643    -29.857976

COMB DL-G3-4 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     10.711638    86.639471     1.667434
 0.003498    0.945930    136.284403
0.14087     10.711638    86.639471     1.667434
 0.003498    0.247103    124.511064
0.28173     10.711638    86.639471     1.667434
 0.003498    0.331028    126.849596
0.42260     10.711638    86.639471     1.667434
 0.003498    0.837773    143.913752
0.56347     10.711638    86.639471     1.667434
 0.003498    1.344293    169.538359
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2605

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -7.108433    -86.815821    -1.206979
 -0.003197    -0.688100    -59.348556
0.14087    -7.108433    -86.815821    -1.206979
 -0.003197    -0.183771    -46.909589
0.28173    -7.108433    -86.815821    -1.206979
 -0.003197    -0.466033    -48.750508
0.42260    -7.108433    -86.815821    -1.206979
 -0.003197    -1.155945    -60.298101
0.56347    -7.108433    -86.815821    -1.206979
 -0.003197    -1.854761    -85.062038

COMB      DB ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     11.871736    169.949460     0.967180
 0.006138    0.559434    137.718065
0.14087     11.871736    169.949460     0.967180
 0.006138    0.153923    144.119813
0.28173     11.871736    169.949460     0.967180
 0.006138    0.217977    154.201502
0.42260     11.871736    169.949460     0.967180
 0.006138    0.554741    178.433979
0.56347     11.871736    169.949460     0.967180
 0.006138    0.881445    213.566108

COMB      DB ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -17.613467    -97.541789    -0.790777
 -0.007733    -0.448682    -64.152407
0.14087    -17.613467    -97.541789    -0.790777
 -0.007733    -0.126140    -56.871359
0.28173    -17.613467    -97.541789    -0.790777
 -0.007733    -0.266498    -88.619146
0.42260    -17.613467    -97.541789    -0.790777
 -0.007733    -0.658779   -129.623614
0.56347    -17.613467    -97.541789    -0.790777
 -0.007733    -1.064450   -192.245102

COMB      DL ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     11.484716    162.452115     1.667434
 0.006180    0.945930    142.176872
0.14087     11.484716    162.452115     1.667434
 0.006180    0.247103    149.181050
0.28173     11.484716    162.452115     1.667434
 0.006180    0.358154    159.653702
0.42260     11.484716    162.452115     1.667434
 0.006180    0.904248    182.280528
0.56347     11.484716    162.452115     1.667434
 0.006180    1.450412    214.603414

COMB      DL ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -16.536224    -95.345763    -1.301708
 -0.007662    -0.745990    -72.057573
0.14087    -16.536224    -95.345763    -1.301708
 -0.007662    -0.202782    -63.101372
0.28173    -16.536224    -95.345763    -1.301708
 -0.007662    -0.466033    -89.028751
0.42260    -16.536224    -95.345763    -1.301708
 -0.007662    -1.155945   -125.487327
0.56347    -16.536224    -95.345763    -1.301708
 -0.007662    -1.854761   -189.961071

COMB      CAR ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     11.871736    169.949460     1.667434
 0.006180    0.945930    142.176872
0.14087     11.871736    169.949460     1.667434
 0.006180    0.247103    149.181050
0.28173     11.871736    169.949460     1.667434
 0.006180    0.358154    159.653702
0.42260     11.871736    169.949460     1.667434
 0.006180    0.904248    182.280528
0.56347     11.871736    169.949460     1.667434
 0.006180    1.450412    214.603414
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2606

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -17.613467    -97.541789    -1.301708
 -0.007733    -0.745990    -72.057573
0.14087    -17.613467    -97.541789    -1.301708
 -0.007733    -0.202782    -63.101372
0.28173    -17.613467    -97.541789    -1.301708
 -0.007733    -0.466033    -89.028751
0.42260    -17.613467    -97.541789    -1.301708
 -0.007733    -1.155945   -129.623614
0.56347    -17.613467    -97.541789    -1.301708
 -0.007733    -1.854761   -192.245102

COMB   DESIGN ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     11.871736    169.949460     1.667434
 0.006180    0.945930    142.176872
0.14087     11.871736    169.949460     1.667434
 0.006180    0.247103    149.181050
0.28173     11.871736    169.949460     1.667434
 0.006180    0.358154    159.653702
0.42260     11.871736    169.949460     1.667434
 0.006180    0.904248    182.280528
0.56347     11.871736    169.949460     1.667434
 0.006180    1.450412    214.603414

COMB   DESIGN ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -17.613467    -97.541789    -1.301708
 -0.007733    -0.745990    -72.057573
0.14087    -17.613467    -97.541789    -1.301708
 -0.007733    -0.202782    -63.101372
0.28173    -17.613467    -97.541789    -1.301708
 -0.007733    -0.466033    -89.028751
0.42260    -17.613467    -97.541789    -1.301708
 -0.007733    -1.155945   -129.623614
0.56347    -17.613467    -97.541789    -1.301708
 -0.007733    -1.854761   -192.245102

ELEM      238 ================== LENGTH
=     2.977840

COMB DB-G1-1 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     2.189833    59.845982     0.388083
 1.63E-05    0.431346    79.673597
0.57742     2.189833    59.845982     0.388083
 1.63E-05    0.258563    54.618819
0.71828     2.189833    59.845982     0.388083
 1.63E-05    0.105857    29.616728
0.85914     2.189833    59.845982     0.388083
 1.63E-05    0.057171    5.080210
1.00000     2.189833    59.845982     0.388083
 1.63E-05    0.227444    2.355355

COMB DB-G1-1 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -6.998910    -18.722477    -0.405968
 -0.001432    -0.453704    -39.792945
0.57742    -6.998910    -18.722477    -0.405968
 -0.001432    -0.283417    -32.061934
0.71828    -6.998910    -18.722477    -0.405968
 -0.001432    -0.113122    -24.695577
0.85914    -6.998910    -18.722477    -0.405968
 -0.001432    -0.057249    -17.692563
1.00000    -6.998910    -18.722477    -0.405968
 -0.001432    -0.219892    -22.195775

COMB DB-G1-2 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     6.212613    88.750777     0.764038
 0.006292    0.827644    164.423425
0.57742     6.212613    88.750777     0.764038
 0.006292    0.507683    129.244596
0.71828     6.212613    88.750777     0.764038
 0.006292    0.208763    107.522450
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2607

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2              V3
        T          M2              M3
0.85914     6.212613    88.750777     0.764038
 0.006292    0.095063    104.373892
1.00000     6.212613    88.750777     0.764038
 0.006292    0.298995    115.532926

COMB DB-G1-2 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -11.577524    -104.128133    -0.533202
 -0.007891    -0.595618    -76.144698
0.57742    -11.577524    -104.128133    -0.533202
 -0.007891    -0.371961    -45.468351
0.71828    -11.577524    -104.128133    -0.533202
 -0.007891    -0.148264    -32.952800
0.85914    -11.577524    -104.128133    -0.533202
 -0.007891    -0.056036    -23.842208
1.00000    -11.577524    -104.128133    -0.533202
 -0.007891    -0.455171    -14.915067

COMB DB-G1-3 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     9.158555    84.757027     1.014923
 0.004826    1.118892    159.632508
0.57742     9.158555    84.757027     1.014923
 0.004826    0.693544    127.882458
0.71828     9.158555    84.757027     1.014923
 0.004826    0.268204    104.131558
0.85914     9.158555    84.757027     1.014923
 0.004826    0.103425    98.249761
1.00000     9.158555    84.757027     1.014923
 0.004826    0.356461    109.939149

COMB DB-G1-3 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -10.176098    -126.164117    -0.635446
 -0.005683    -0.709732    -117.954342
0.57742    -10.176098    -126.164117    -0.635446
 -0.005683    -0.443248    -73.991549
0.71828    -10.176098    -126.164117    -0.635446
 -0.005683    -0.176742    -40.818591
0.85914    -10.176098    -126.164117    -0.635446
 -0.005683    -0.160412    -21.902139
1.00000    -10.176098    -126.164117    -0.635446
 -0.005683    -0.584966    -16.574192

COMB DB-G1-4 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     10.602526    77.976720     1.111663
 0.004484    1.232231    148.469459
0.57742     10.602526    77.976720     1.111663
 0.004484    0.766291    118.936616
0.71828     10.602526    77.976720     1.111663
 0.004484    0.312286    97.569259
0.85914     10.602526    77.976720     1.111663
 0.004484    0.121270    88.092279
1.00000     10.602526    77.976720     1.111663
 0.004484    0.438725    94.900240

COMB DB-G1-4 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -9.074496    -116.864150    -0.783094
 -0.004720    -0.875174    -136.239942
0.57742    -9.074496    -116.864150    -0.783094
 -0.004720    -0.546765    -94.969351
0.71828    -9.074496    -116.864150    -0.783094
 -0.004720    -0.218332    -63.071812
0.85914    -9.074496    -116.864150    -0.783094
 -0.004720    -0.168484    -43.553010
1.00000    -9.074496    -116.864150    -0.783094
 -0.004720    -0.633787    -35.020147

COMB DB-G2-1 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     4.866284    9.780898     0.422965
0.005502    0.454352    46.999335
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2608

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2              V3
        T          M2              M3
0.57742     4.866284    9.780898     0.422965
0.005502    0.277396    45.650212
0.71828     4.866284    9.780898     0.422965
0.005502    0.118040    56.141376
0.85914     4.866284    9.780898     0.422965
0.005502    0.032864    84.026793
1.00000     4.866284    9.780898     0.422965
0.005502    0.063560    122.437912

COMB DB-G2-1 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -3.036398    -100.784975    -0.113457
 -0.005380    -0.126754    -51.886874
0.57742    -3.036398    -100.784975    -0.113457
 -0.005380    -0.079160    -20.407382
0.71828    -3.036398    -100.784975    -0.113457
 -0.005380    -0.031511    -4.892950
0.85914    -3.036398    -100.784975    -0.113457
 -0.005380    -0.079736    -3.868763
1.00000    -3.036398    -100.784975    -0.113457
 -0.005380    -0.256021    -3.237757

COMB DB-G2-2 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     9.502852    16.276721     0.778086
 0.005730    0.855688    56.142129
0.57742     9.502852    16.276721     0.778086
 0.005730    0.529771    53.576969
0.71828     9.502852    16.276721     0.778086
 0.005730    0.220256    62.223385
0.85914     9.502852    16.276721     0.778086
 0.005730    0.065032    87.170888
1.00000     9.502852    16.276721     0.778086
 0.005730    0.196378    124.839093

COMB DB-G2-2 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -2.668320    -129.742073    -0.349670
 -0.004903    -0.390301    -105.861084
0.57742    -2.668320    -129.742073    -0.349670
 -0.004903    -0.243726    -61.745796
0.71828    -2.668320    -129.742073    -0.349670
 -0.004903    -0.097125    -30.465499
0.85914    -2.668320    -129.742073    -0.349670
 -0.004903    -0.125583    -15.612949
1.00000    -2.668320    -129.742073    -0.349670
 -0.004903    -0.450821    -15.007751

COMB DB-G2-3 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     9.509059    80.776134     1.021040
 0.004239    1.130742    178.750190
0.57742     9.509059    80.776134     1.021040
 0.004239    0.702789    148.497616
0.71828     9.509059    80.776134     1.021040
 0.004239    0.286467    126.373741
0.85914     9.509059    80.776134     1.021040
 0.004239    0.093376    116.603444
1.00000     9.509059    80.776134     1.021040
 0.004239    0.327614    118.769238

COMB DB-G2-3 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -8.891446    -119.106249    -0.584307
 -0.004351    -0.652691    -119.053329
0.57742    -8.891446    -119.106249    -0.584307
 -0.004351    -0.407631    -76.580626
0.71828    -8.891446    -119.106249    -0.584307
 -0.004351    -0.162613    -43.393441
0.85914    -8.891446    -119.106249    -0.584307
 -0.004351    -0.155926    -25.647895
1.00000    -8.891446    -119.106249    -0.584307
 -0.004351    -0.583265    -20.679564
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2609

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     10.271156    75.517965     1.119120
 0.004010    1.245033    167.974036
0.57742     10.271156    75.517965     1.119120
 0.004010    0.775906    139.342106
0.71828     10.271156    75.517965     1.119120
 0.004010    0.316535    117.521683
0.85914     10.271156    75.517965     1.119120
 0.004010    0.116294    106.000406
1.00000     10.271156    75.517965     1.119120
 0.004010    0.427638    104.330813

COMB DB-G2-4 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -8.119999    -107.475860    -0.763873
 -0.003641    -0.853962    -134.984432
0.57742    -8.119999    -107.475860    -0.763873
 -0.003641    -0.533610    -96.345545
0.71828    -8.119999    -107.475860    -0.763873
 -0.003641    -0.213230    -65.443826
0.85914    -8.119999    -107.475860    -0.763873
 -0.003641    -0.164813    -47.268773
1.00000    -8.119999    -107.475860    -0.763873
 -0.003641    -0.633461    -40.121600

COMB DB-G3-1 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     3.129704    13.244613     0.413866
 0.000715    0.467410    32.246695
0.57742     3.129704    13.244613     0.413866
 0.000715    0.293818    26.713614
0.71828     3.129704    13.244613     0.413866
 0.000715    0.120251    21.207909
0.85914     3.129704    13.244613     0.413866
 0.000715    0.060631    15.803988
1.00000     3.129704    13.244613     0.413866
 0.000715    0.244017    10.492358

COMB DB-G3-1 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43656    -1.223619    -11.017946    -0.437125
 -7.04E-06    -0.489414    -53.379501
0.57742    -1.223619    -11.017946    -0.437125
 -7.04E-06    -0.306056    -48.927414
0.71828    -1.223619    -11.017946    -0.437125
 -7.04E-06    -0.122683    -44.573216
0.85914    -1.223619    -11.017946    -0.437125
 -7.04E-06    -0.053586    -40.283149
1.00000    -1.223619    -11.017946    -0.437125
 -7.04E-06    -0.227166    -36.031348

COMB DB-G3-2 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43656     7.301315    20.911131     0.731636
 0.001463    0.824457    46.413522
0.57742     7.301315    20.911131     0.731636
 0.001463    0.517646    37.892001
```

```
0.71828     7.301315    20.911131     0.731636
 0.001463    0.211546    30.339408
0.85914     7.301315    20.911131     0.731636
 0.001463    0.097369    23.668593
1.00000     7.301315    20.911131     0.731636
 0.001463    0.388865    17.580266

COMB DB-G3-2 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -1.853469   -33.140281   -0.696076
-0.000203   -0.779055  -100.475844
0.57742    -1.853469   -33.140281   -0.696076
-0.000203   -0.487071   -87.628091
0.71828    -1.853469   -33.140281   -0.696076
-0.000203   -0.195077   -76.020199
0.85914    -1.853469   -33.140281   -0.696076
-0.000203   -0.096624   -64.929447
1.00000    -1.853469   -33.140281   -0.696076
-0.000203   -0.403339   -54.350465
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2610

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     9.853710    22.306083     0.993327
 0.001873    1.118399    62.071379
0.57742     9.853710    22.306083     0.993327
 0.001873    0.701822    55.598267
0.71828     9.853710    22.306083     0.993327
 0.001873    0.286385    50.689294
0.85914     9.853710    22.306083     0.993327
 0.001873    0.102828    49.462816
1.00000     9.853710    22.306083     0.993327
 0.001873    0.407550    60.332369

COMB DB-G3-3 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -2.206878   -85.262019   -0.728494
-0.000322   -0.814738  -137.677452
0.57742    -2.206878   -85.262019   -0.728494
-0.000322   -0.509170  -103.198220
0.71828    -2.206878   -85.262019   -0.728494
-0.000322   -0.203740   -70.302511
0.85914    -2.206878   -85.262019   -0.728494
-0.000322   -0.132484   -53.343665
1.00000    -2.206878   -85.262019   -0.728494
-0.000322   -0.548831   -49.139488

COMB DB-G3-4 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656    10.426131    64.574894     1.127717
 0.004663    1.254269   157.614663
0.57742    10.426131    64.574894     1.127717
 0.004663    0.781570   133.735216
0.71828    10.426131    64.574894     1.127717
 0.004663    0.320360   117.855963
0.85914    10.426131    64.574894     1.127717
 0.004663    0.118443   113.589966
1.00000    10.426131    64.574894     1.127717
 0.004663    0.430317   119.005670

COMB DB-G3-4 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -6.952111  -110.165962   -0.768868
-0.003829   -0.859737  -137.412779
0.57742    -6.952111  -110.165962   -0.768868
-0.003829   -0.537337   -98.654007
0.71828    -6.952111  -110.165962   -0.768868
-0.003829   -0.214855   -68.970319
0.85914    -6.952111  -110.165962   -0.768868
-0.003829   -0.166604   -51.827085
1.00000    -6.952111  -110.165962   -0.768868
-0.003829   -0.638761   -45.569540

COMB DL-G1-1 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     3.557937    54.828016     0.704671
 1.19E-05    0.785344    71.195784
0.57742     3.557937    54.828016     0.704671
 1.19E-05    0.489766    48.496612
0.71828     3.557937    54.828016     0.704671
 1.19E-05    0.194351    26.128864
0.85914     3.557937    54.828016     0.704671
 1.19E-05    0.105365     5.157217
1.00000     3.557937    54.828016     0.704671
 1.19E-05    0.418214     2.617996

COMB DL-G1-1 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -6.201434   -24.441036   -0.746407
-0.001448   -0.834136   -57.095796
0.57742    -6.201434   -24.441036   -0.746407
-0.001448   -0.521043   -47.132194
0.71828    -6.201434   -24.441036   -0.746407
-0.001448   -0.208086   -37.561412
0.85914    -6.201434   -24.441036   -0.746407
-0.001448   -0.100693   -29.201174
1.00000    -6.201434   -24.441036   -0.746407
-0.001448   -0.395669   -36.375499
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2611

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     7.574201    80.692498     1.249416
 0.006284    1.372417   153.689591
0.57742     7.574201    80.692498     1.249416
 0.006284    0.850932   123.629009
0.71828     7.574201    80.692498     1.249416
 0.006284    0.344769   107.021140
0.85914     7.574201    80.692498     1.249416
 0.006284    0.166091   107.811110
1.00000     7.574201    80.692498     1.249416
 0.006284    0.565906   121.461592

COMB DL-G1-2 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656   -10.887402  -107.777952   -0.980674
-0.007803   -1.095516  -101.513079
0.57742   -10.887402  -107.777952   -0.980674
-0.007803   -0.684114   -61.894697
0.71828   -10.887402  -107.777952   -0.980674
-0.007803   -0.272774   -46.561729
0.85914   -10.887402  -107.777952   -0.980674
-0.007803   -0.204880   -34.741958
1.00000   -10.887402  -107.777952   -0.980674
-0.007803   -0.726446   -29.815718

COMB DL-G1-3 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656    10.000253    78.098242     1.656325
 0.004929    1.836570   150.937086
0.57742    10.000253    78.098242     1.656325
 0.004929    1.143873   122.337420
0.71828    10.000253    78.098242     1.656325
 0.004929    0.462202   103.837035
0.85914    10.000253    78.098242     1.656325
 0.004929    0.197005   103.535432
1.00000    10.000253    78.098242     1.656325
 0.004929    0.717254   121.316165

COMB DL-G1-3 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656   -10.049090  -124.587521   -1.260308
-0.005805   -1.407487  -130.164696
0.57742   -10.049090  -124.587521   -1.260308
-0.005805   -0.878606   -82.421448
0.71828   -10.049090  -124.587521   -1.260308
-0.005805   -0.349624   -52.007107
0.85914   -10.049090  -124.587521   -1.260308
-0.005805   -0.251967   -32.211819
1.00000   -10.049090  -124.587521   -1.260308
-0.005805   -0.944791   -29.454039

COMB DL-G1-4 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656    11.333255    74.266473     1.884281
 0.004561    2.096648   145.200509
0.57742    11.333255    74.266473     1.884281
 0.004561    1.307985   117.598795
0.71828    11.333255    74.266473     1.884281
 0.004561    0.529571    98.407727
0.85914    11.333255    74.266473     1.884281
 0.004561    0.227956    94.505499
1.00000    11.333255    74.266473     1.884281
 0.004561    0.856051   105.582504

COMB DL-G1-4 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -9.234646  -115.707904   -1.513128
-0.004823   -1.690823  -147.522327
0.57742    -9.234646  -115.707904   -1.513128
-0.004823   -1.055786  -102.922770
0.71828    -9.234646  -115.707904   -1.513128
-0.004823   -0.420561   -72.912604
0.85914    -9.234646  -115.707904   -1.513128
-0.004823   -0.278113   -52.399457
1.00000    -9.234646  -115.707904   -1.513128
-0.004823   -1.066820   -45.956443
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2612

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     4.357894     9.996541     0.596410
 0.004617    0.652710    49.571693
0.57742     4.357894     9.996541     0.596410
 0.004617    0.404203    49.456456
0.71828     4.357894     9.996541     0.596410
 0.004617    0.166464    60.354035
0.85914     4.357894     9.996541     0.596410
 0.004617    0.054490    87.726936
1.00000     4.357894     9.996541     0.596410
 0.004617    0.150394   120.348586

COMB DL-G2-1 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -3.532905   -88.376458   -0.247341
-0.004506   -0.275421   -52.884494
0.57742    -3.532905   -88.376458   -0.247341
-0.004506   -0.171699   -20.685795
0.71828    -3.532905   -88.376458   -0.247341
-0.004506   -0.068033    -6.615765
0.85914    -3.532905   -88.376458   -0.247341
-0.004506   -0.102428    -5.224219
1.00000    -3.532905   -88.376458   -0.247341
-0.004506   -0.350929    -4.389650

COMB DL-G2-2 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     8.874446    18.196873     1.204891
 0.004948    1.336423    62.082646
0.57742     8.874446    18.196873     1.204891
 0.004948    0.833029    58.778211
0.71828     8.874446    18.196873     1.204891
 0.004948    0.339766    65.239608
0.85914     8.874446    18.196873     1.204891
 0.004948    0.124974    91.109631
1.00000     8.874446    18.196873     1.204891
 0.004948    0.437507   126.456032

COMB DL-G2-2 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -3.538727  -114.297049   -0.763024
-0.004186   -0.851956   -98.848150
0.57742    -3.538727  -114.297049   -0.763024
-0.004186   -0.553136   -55.189873
0.71828    -3.538727  -114.297049   -0.763024
-0.004186   -0.210968   -28.659360
0.85914    -3.538727  -114.297049   -0.763024
-0.004186   -0.185158   -16.226561
1.00000    -3.538727  -114.297049   -0.763024
-0.004186   -0.688868   -15.552105

COMB DL-G3-3 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     9.131038    76.956079     1.635912
 0.003422    1.822163   171.191537
0.57742     9.131038    76.956079     1.635912
 0.003422    1.137478   148.428644
0.71828     9.131038    76.956079     1.635912
 0.003422    0.459418   126.442737
0.85914     9.131038    76.956079     1.635912
 0.003422    0.174791   119.607944
1.00000     9.131038    76.956079     1.635912
 0.003422    0.656654   121.464547

COMB DL-G3-3 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -9.269465  -108.073280   -1.160582
-0.003594   -1.296288  -120.164137
0.57742    -9.269465  -108.073130   -1.160582
-0.003594   -0.809037   -78.189221
0.71828    -9.269465  -108.073130   -1.160582
-0.003594   -0.321976   -47.501258
0.85914    -9.269465  -108.073130   -1.160582
-0.003594   -0.239259   -30.302802
1.00000    -9.269465  -108.073130   -1.160582
-0.003594   -0.924005   -23.684178
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2613

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     9.855113    74.845781     1.911701
 0.003338    2.134915   172.872114
0.57742     9.855113    74.845781     1.911701
 0.003338    1.334369   144.536976
0.71828     9.855113    74.845781     1.911701
 0.003338    0.539395   121.827662
0.85914     9.855113    74.845781     1.911701
 0.003338    0.211964   111.743225
1.00000     9.855113    74.845781     1.911701
 0.003338    0.814461   109.043078

COMB DL-G2-4 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -8.914369   -99.049620   -1.446085
-0.003012   -1.616053  -139.300684
0.57742    -8.914369   -99.049620   -1.446085
-0.003012   -1.008955  -100.751101
0.71828    -8.914369   -99.049620   -1.446085
-0.003012   -0.401831   -71.605925
0.85914    -8.914369   -99.049620   -1.446085
-0.003012   -0.273126   -53.539224
1.00000    -8.914369   -99.049620   -1.446085
-0.003012   -1.073843   -44.694988

COMB DL-G3-1 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     2.967186    17.476085     0.868120
 0.000725    0.976473    43.315381
0.57742     2.967186    17.476085     0.868120
 0.000725    0.612377    36.178580
0.71828     2.967186    17.476085     0.868120
 0.000725    0.248225    29.059600
0.85914     2.967186    17.476085     0.868120
 0.000725    0.099806    21.986373
1.00000     2.967186    17.476085     0.868120
 0.000725    0.406041    14.982324

COMB DL-G3-1 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -2.422157   -12.098382   -0.727724
-4.11E-06   -0.814105   -59.260047
0.57742    -2.422157   -12.098382   -0.727724
-4.11E-06   -0.508515   -54.488955
0.71828    -2.422157   -12.098382   -0.727724
-4.11E-06   -0.202461   -49.770374
0.85914    -2.422157   -12.098382   -0.727724
-4.11E-06   -0.116159   -45.091399
1.00000    -2.422157   -12.098382   -0.727724
-4.11E-06   -0.480440   -40.508189

COMB DL-G3-2 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     7.362009    27.094567     1.445425
 0.001397    1.623855    61.755465
0.57742     7.362009    27.094567     1.445425
 0.001397    1.207729    50.897233
0.71828     7.362009    27.094567     1.445425
 0.001397    0.411831    40.543792
0.85914     7.362009    27.094567     1.445425
 0.001397    0.172999    30.800592
1.00000     7.362009    27.094567     1.445425
 0.001397    0.700378    21.917963

COMB DL-G3-2 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -3.249782   -33.414331   -1.253956
-0.000130   -1.402789  -106.266790
0.57742    -3.249782   -33.414331   -1.253956
-0.000130   -0.876368   -93.020640
0.71828    -3.249782   -33.414331   -1.253956
-0.000130   -0.349470   -80.666897
0.85914    -3.249782   -33.414331   -1.253956
-0.000130   -0.195362   -69.438192
1.00000    -3.249782   -33.414331   -1.253956
-0.000130   -0.801833   -59.193876
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2614

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     9.106119    27.660825     1.785177
 0.001479    2.005553    75.332872
0.57742     9.106119    27.660825     1.785177
 0.001479    1.256993    66.069315
0.71828     9.106119    27.660825     1.785177
 0.001479    0.508452    58.499250
0.85914     9.106119    27.660825     1.785177
 0.001479    0.189187    59.470172
1.00000     9.106119    27.660825     1.785177
 0.001479    0.763708    68.730558

COMB DL-G3-3 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -4.005333   -76.166772   -1.367792
-5.47E-06   -1.528778  -132.865519
0.57742    -4.005333   -76.166772   -1.367792
-5.47E-06   -0.954436  -102.611011
0.71828    -4.005333   -76.166772   -1.367792
-5.47E-06   -0.379876   -73.420182
0.85914    -4.005333   -76.166772   -1.367792
-5.47E-06   -0.241965   -59.035764
1.00000    -4.005333   -76.166772   -1.367792
-5.47E-06   -0.991094   -54.054737

COMB DL-G3-4 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656     9.712569    66.772284     1.957053
 0.003682    2.187149   169.933216
0.57742     9.712569    66.772284     1.957053
 0.003682    1.367515   145.034418
0.71828     9.712569    66.772284     1.957053
 0.003682    0.553893   126.506242
0.85914     9.712569    66.772284     1.957053
 0.003682    0.209499   121.189686
1.00000     9.712569    66.772284     1.957053
 0.003682    0.805919   122.848117

COMB DL-G3-4 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656    -8.551839   -98.314547   -1.430708
-0.002868   -1.598979  -140.364446
0.57742    -8.551839   -98.314547   -1.430708
-0.002868   -0.998337  -102.329734
0.71828    -8.551839   -98.314547   -1.430708
-0.002868   -0.397469   -74.715031
0.85914    -8.551839   -98.314547   -1.430708
-0.002868   -0.278602   -58.900486
1.00000    -8.551839   -98.314547   -1.430708
-0.002868   -1.098515   -51.126830

COMB       DB ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656    10.602526    88.750777     1.127717
 0.006292    1.254269   178.750190
0.57742    10.602526    88.750777     1.127717
 0.006292    0.781570   148.497616
0.71828    10.602526    88.750777     1.127717
 0.006292    0.320360   126.373741
0.85914    10.602526    88.750777     1.127717
 0.006292    0.121270   116.603444
1.00000    10.602526    88.750777     1.127717
 0.006292    0.438725   124.839093

COMB       DB ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656   -11.577524  -129.742073   -0.783094
-0.007891   -0.875174  -137.677452
0.57742   -11.577524  -129.742073   -0.783094
-0.007891   -0.546765  -103.198220
0.71828   -11.577524  -129.742073   -0.783094
-0.007891   -0.218332   -76.020199
0.85914   -11.577524  -129.742073   -0.783094
-0.007891   -0.168484   -64.929447
1.00000   -11.577524  -129.742073   -0.783094
-0.007891   -0.638761   -54.350465
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2615

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656    11.333255    80.692498     1.957053
 0.006284    2.187149   177.191537
0.57742    11.333255    80.692498     1.957053
 0.006284    1.367515   148.428644
0.71828    11.333255    80.692498     1.957053
 0.006284    0.553893   126.506242
0.85914    11.333255    80.692498     1.957053
 0.006284    0.227956   121.189686
1.00000    11.333255    80.692498     1.957053
 0.006284    0.856051   126.456032

COMB       DL ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656   -10.887402  -124.587521   -1.513128
-0.007803   -1.690823  -147.522327
0.57742   -10.887402  -124.587521   -1.513128
-0.007803   -1.055786  -102.922770
0.71828   -10.887402  -124.587521   -1.513128
-0.007803   -0.420561   -80.666897
0.85914   -10.887402  -124.587521   -1.513128
-0.007803   -0.278602   -69.438192
1.00000   -10.887402  -124.587521   -1.513128
-0.007803   -1.098515   -59.193876

COMB       CAR ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656    11.333255    88.750777     1.957053
 0.006292    2.187149   178.750190
0.57742    11.333255    88.750777     1.957053
 0.006292    1.367515   148.497616
0.71828    11.333255    88.750777     1.957053
 0.006292    0.553893   126.506242
0.85914    11.333255    88.750777     1.957053
 0.006292    0.227956   121.189686
1.00000    11.333255    88.750777     1.957053
 0.006292    0.856051   126.456032

COMB       CAR ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656   -11.577524  -129.742073   -1.513128
-0.007891   -1.690823  -147.522327
0.57742   -11.577524  -129.742073   -1.513128
-0.007891   -1.055786  -103.198220
0.71828   -11.577524  -129.742073   -1.513128
-0.007891   -0.420561   -80.666897
0.85914   -11.577524  -129.742073   -1.513128
-0.007891   -0.278602   -69.438192
1.00000   -11.577524  -129.742073   -1.513128
-0.007891   -1.098515   -59.193876

COMB       DESIGN ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.43656    11.333255    88.750777     1.957053
 0.006292    2.187149   178.750190
0.57742    11.333255    88.750777     1.957053
 0.006292    1.367515   148.497616
0.71828    11.333255    88.750777     1.957053
 0.006292    0.553893   126.506242
0.85914    11.333255    88.750777     1.957053
 0.006292    0.227956   121.189686
1.00000    11.333255    88.750777     1.957053
 0.006292    0.856051   126.456032

COMB       DESIGN ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.43656   -11.577524  -129.742073   -1.513128
-0.007891   -1.690823  -147.522327
0.57742   -11.577524  -129.742073   -1.513128
-0.007891   -1.055786  -103.198220
0.71828   -11.577524  -129.742073   -1.513128
-0.007891   -0.420561   -80.666897
0.85914   -11.577524  -129.742073   -1.513128
-0.007891   -0.278602   -69.438192
1.00000   -11.577524  -129.742073   -1.513128
-0.007891   -1.098515   -59.193876
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    2616

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       239 ================== LENGTH
=     2.976904

COMB DB-G1-1 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.00000     2.182475    59.746877     0.377590
 7.36E-06    0.213036     2.355464
0.14083     2.182475    59.746877     0.377590
 7.36E-06    0.054733     2.938816
0.28165     2.182475    59.746877     0.377590
 7.36E-06    0.111580     8.706382
0.42248     2.182475    59.746877     0.377590
 7.36E-06    0.283187    16.101751
0.56330     2.182475    59.746877     0.377590
 7.36E-06    0.454419    23.776192

COMB DB-G1-1 ------------------- MIN

REL DIST            P           V2          V3
       T           M2          M3
0.00000    -6.981886   -18.806146   -0.408447
-0.001405   -0.230505   -22.215836
0.14083    -6.981886   -18.806146   -0.408447
-0.001405   -0.059276    -6.736173
0.28165    -6.981886   -18.806146   -0.408447
-0.001405   -0.103565    -71.716303
0.42248    -6.981886   -18.806146   -0.408447
-0.001405   -0.261853    -96.717613
0.56330    -6.981886   -18.806146   -0.408447
-0.001405   -0.420147   -121.745802

COMB DB-G1-2 ------------------- MAX

REL DIST            P           V2          V3
       T           M2          M3
0.00000     3.292143   154.303514     0.721414
 0.006082    0.432178   115.899052
0.14083     3.292143   154.303514     0.721414
 0.006082    0.130509    91.812986
0.28165     3.292143   154.303514     0.721414
 0.006082    0.145153    73.792525
0.42248     3.292143   154.303514     0.721414
 0.006082    0.367011    76.070601
0.56330     3.292143   154.303514     0.721414
 0.006082    0.589042    91.189978
```

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.888304	-42.276070	-0.529626
-0.008083	-0.299056	-14.891055	
0.14083	-14.888304	-42.276070	-0.529626
-0.008083	-0.097057	-44.524852	
0.28165	-14.888304	-42.276070	-0.529626
-0.008083	-0.197620	-76.996811	
0.42248	-14.888304	-42.276070	-0.529626
-0.008083	-0.476529	-113.826840	
0.56330	-14.888304	-42.276070	-0.529626
-0.008083	-0.778964	-171.858516	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.230325	129.184710	0.996033
0.004269	0.578213	110.171542	
0.14083	7.230325	129.184710	0.996033
0.004269	0.161154	114.470014	
0.28165	7.230325	129.184710	0.996033
0.004269	0.175996	124.795158	
0.42248	7.230325	129.184710	0.996033
0.004269	0.442689	149.342116	
0.56330	7.230325	129.184710	0.996033
0.004269	0.709957	182.725889	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.434867	-84.341052	-0.637512
-0.005834	-0.359172	-16.548873	
0.14083	-12.434867	-84.341052	-0.637512
-0.005834	-0.105454	-45.282585	
0.28165	-12.434867	-84.341052	-0.637512
-0.005834	-0.274481	-77.613384	

REL DIST	P	V2	V3
T	M2	M3	
0.42248	-12.434867	-84.341052	-0.637512
-0.005834	-0.675621	-112.862829	
0.56330	-12.434867	-84.341052	-0.637512
-0.005834	-1.093184	-162.512155	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.016381	114.780723	1.117204
0.004185	0.643423	95.099305	
0.14083	9.016381	114.780723	1.117204
0.004185	0.175454	96.290538	
0.28165	9.016381	114.780723	1.117204
0.004185	0.217987	106.212118	
0.42248	9.016381	114.780723	1.117204
0.004185	0.549787	128.724639	
0.56330	9.016381	114.780723	1.117204
0.004185	0.881676	158.746939	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.948218	-82.225849	-0.791797
-0.004847	-0.446113	-35.006020	
0.14083	-10.948218	-82.225849	-0.791797
-0.004847	-0.125295	-54.955750	
0.28165	-10.948218	-82.225849	-0.791797
-0.004847	-0.307936	-78.069508	
0.42248	-10.948218	-82.225849	-0.791797
-0.004847	-0.762621	-104.990222	
0.56330	-10.948218	-82.225849	-0.791797
-0.004847	-1.230982	-144.994629	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.464327	64.851668	0.442557
0.005085	0.270142	122.735074	
0.14083	2.464327	64.851668	0.442557
0.005085	0.085305	114.667444	
0.28165	2.464327	64.851668	0.442557
0.005085	0.030895	106.720034	
0.42248	2.464327	64.851668	0.442557
0.005085	0.077400	114.750180	
0.56330	2.464327	64.851668	0.442557
0.005085	0.124058	133.348395	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.832449	-49.081664	-0.111232
-0.005318	-0.062439	-3.227986	
0.14083	-5.832449	-49.081664	-0.111232
-0.005318	-0.032544	-3.197613	
0.28165	-5.832449	-49.081664	-0.111232
-0.005318	-0.121775	-3.500193	
0.42248	-5.832449	-49.081664	-0.111232
-0.005318	-0.287610	-7.381095	
0.56330	-5.832449	-49.081664	-0.111232
-0.005318	-0.473142	-28.983716	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.307730	67.446754	0.820568
0.005179	0.481244	125.107661	
0.14083	7.307730	67.446754	0.820568
0.005179	0.137856	127.961319	
0.28165	7.307730	67.446754	0.820568
0.005179	0.097458	134.722831	
0.42248	7.307730	67.446754	0.820568
0.005179	0.244503	156.883749	
0.56330	7.307730	67.446754	0.820568
0.005179	0.391677	188.972350	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.281188	-81.830159	-0.351235
-0.004950	-0.197343	-14.999833	

REL DIST	P	V2	V3
T	M2	M3	
0.14083	-5.281188	-81.830159	-0.351235
-0.004950	-0.065596	-14.457074	
0.28165	-5.281188	-81.830159	-0.351235
-0.004950	-0.226435	-14.298629	
0.42248	-5.281188	-81.830159	-0.351235
-0.004950	-0.552080	-19.371269	
0.56330	-5.281188	-81.830159	-0.351235
-0.004950	-0.896081	-42.391713	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.968563	116.584486	1.009023
0.003626	0.576997	118.934670	
0.14083	7.968563	116.584486	1.009023
0.003626	0.154978	111.017623	
0.28165	7.968563	116.584486	1.009023
0.003626	0.162164	123.972457	
0.42248	7.968563	116.584486	1.009023
0.003626	0.408655	149.908674	
0.56330	7.968563	116.584486	1.009023
0.003626	0.655215	183.543494	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.718087	-85.421470	-0.588275
-0.004650	-0.331261	-20.661551	
0.14083	-10.718087	-85.421470	-0.588275
-0.004650	-0.095597	-21.499325	
0.28165	-10.718087	-85.421470	-0.588275
-0.004650	-0.283549	-49.525832	
0.42248	-10.718087	-85.421470	-0.588275
-0.004650	-0.693308	-81.647409	
0.56330	-10.718087	-85.421470	-0.588275
-0.004650	-1.116163	-126.777462	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.994825	105.461846	1.135365
0.003794	0.646896	104.476147	
0.14083	8.994825	105.461846	1.135365
0.003794	0.171701	94.427339	
0.28165	8.994825	105.461846	1.135365
0.003794	0.213455	103.668279	
0.42248	8.994825	105.461846	1.135365
0.003794	0.538440	125.015088	
0.56330	8.994825	105.461846	1.135365
0.003794	0.863487	152.770751	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.650839	-79.178783	-0.775456
-0.003890	-0.436908	-40.112732	
0.14083	-9.650839	-79.178783	-0.775456
-0.003890	-0.120909	-37.876476	
0.28165	-9.650839	-79.178783	-0.775456
-0.003890	-0.317223	-58.320105	
0.42248	-9.650839	-79.178783	-0.775456
-0.003890	-0.782103	-81.915234	
0.56330	-9.650839	-79.178783	-0.775456
-0.003890	-1.257954	-116.189585	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.148226	13.232705	0.458391
0.001056	0.258622	10.501825	
0.14083	3.148226	13.232705	0.458391
0.001056	0.066442	5.736838	
0.28165	3.148226	13.232705	0.458391
0.001056	0.123605	2.659633	
0.42248	3.148226	13.232705	0.458391
0.001056	0.312417	2.161860	
0.56330	3.148226	13.232705	0.458391
0.001056	0.501213	2.660433	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.226728	-10.874596	-0.450341
-1.16E-05	-0.253973	-36.040569	
0.14083	-1.226728	-10.874596	-0.450341
-1.16E-05	-0.065086	-31.991651	
0.28165	-1.226728	-10.874596	-0.450341
-1.16E-05	-0.125749	-28.173423	
0.42248	-1.226728	-10.874596	-0.450341
-1.16E-05	-0.317892	-24.446604	
0.56330	-1.226728	-10.874596	-0.450341
-1.16E-05	-0.510062	-20.857200	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.248434	22.878591	0.797219
0.001934	0.449952	17.606054	
0.14083	7.248434	22.878591	0.797219
0.001934	0.115756	12.511398	
0.28165	7.248434	22.878591	0.797219
0.001934	0.196654	13.486182	
0.42248	7.248434	22.878591	0.797219
0.001934	0.496587	19.980987	
0.56330	7.248434	22.878591	0.797219
0.001934	0.796542	27.544913	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.960051	-31.306209	-0.715445
-0.000247	-0.403196	-54.366845	
0.14083	-1.960051	-31.306209	-0.715445
-0.000247	-0.160369	-46.733458	
0.28165	-1.960051	-31.306209	-0.715445
-0.000247	-0.219325	-40.002579	
0.42248	-1.960051	-31.306209	-0.715445
-0.000247	-0.552742	-35.867249	
0.56330	-1.960051	-31.306209	-0.715445
-0.000247	-0.886952	-34.268202	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.808043	25.461089	1.075110
0.001645	0.606466	20.342160	
0.14083	9.808043	25.461089	1.075110
0.001645	0.155767	78.745187	
0.28165	9.808043	25.461089	1.075110
0.001645	0.205737	102.154183	
0.42248	9.808043	25.461089	1.075110
0.001645	0.518360	130.347137	
0.56330	9.808043	25.461089	1.075110
0.001645	0.830956	159.660959	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.388405	-82.450584	-0.745850
-0.000326	-0.419770	-49.145128	
0.14083	-2.388495	-82.450584	-0.745850
-0.000326	-0.107927	-45.035603	
0.28165	-2.388495	-82.450584	-0.745850
-0.000326	-0.296468	-41.131862	
0.42248	-2.388495	-82.450584	-0.745850
-0.000326	-0.745955	-39.141694	
0.56330	-2.388495	-82.450584	-0.745850
-0.000326	-1.196656	-39.502353	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.909276	100.071432	1.171384
0.004529	0.670800	119.188562	
0.14083	8.909276	100.071432	1.171384
0.004529	0.180407	105.069438	
0.28165	8.909276	100.071432	1.171384
0.004529	0.215419	106.458469	
0.42248	8.909276	100.071432	1.171384
0.004529	0.543337	124.318280	
0.56330	8.909276	100.071432	1.171384
0.004529	0.871282	150.461346	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.765563	-76.625202	-0.782472
-0.004101	-0.440864	-45.565125	
0.14083	-8.765563	-76.625202	-0.782472
-0.004101	-0.123588	-39.490977	
0.28165	-8.765563	-76.625202	-0.782472
-0.004101	-0.325446	-49.068605	
0.42248	-8.765563	-76.625202	-0.782472
-0.004101	-0.803587	-66.482781	
0.56330	-8.765563	-76.625202	-0.782472
-0.004101	-1.294633	-96.486320	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.548320	54.827945	0.664054
4.35E-06	0.370685	2.617838	
0.14083	3.548320	54.827945	0.664054
4.35E-06	0.092494	3.130612	
0.28165	3.548320	54.827945	0.664054
4.35E-06	0.211376	8.884040	
0.42248	3.548320	54.827945	0.664054
4.35E-06	0.533961	18.819602	
0.56330	3.548320	54.827945	0.664054
4.35E-06	0.856665	28.858121	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.191830	-24.595580	-0.769828
-0.001441	-0.434112	-36.381437	
0.14083	-6.191830	-24.595580	-0.769828
-0.001441	-0.111211	-51.947517	
0.28165	-6.191830	-24.595580	-0.769828
-0.001441	-0.185067	-70.816380	
0.42248	-6.191830	-24.595580	-0.769828
-0.001441	-0.463413	-93.573255	
0.56330	-6.191830	-24.595580	-0.769828
-0.001441	-0.741669	-116.369628	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.421835	143.626545	1.228881
0.006086	0.715913	121.513610	
0.14083	4.421835	143.626545	1.228881
0.006086	0.203404	96.706014	
0.28165	4.421835	143.626545	1.228881
0.006086	0.271609	77.689047	
0.42248	4.421835	143.626545	1.228881
0.006086	0.685829	81.641341	
0.56330	4.421835	143.626545	1.228881
0.006086	1.100204	98.706923	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.740600	-47.946590	-0.988279
-0.008204	-0.647856	-29.814130	
0.14083	-14.740600	-47.946590	-0.988279
-0.008204	-0.170301	-49.599018	
0.28165	-14.740600	-47.946590	-0.988279
-0.008204	-0.338669	-73.337508	
0.42248	-14.740600	-47.946590	-0.988279
-0.008204	-0.832942	-106.135498	
0.56330	-14.740600	-47.946590	-0.988279
-0.008204	-1.347422	-163.627418	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.808369	122.610862	1.648854
0.004468	0.943182	121.337778	
0.14083	7.808369	122.610862	1.648854
0.004468	0.254047	121.154580	
0.28165	7.808369	122.610862	1.648854
0.004468	0.348358	126.480055	
0.42248	7.808369	122.610862	1.648854
0.004468	0.880001	148.991821	
0.56330	7.808369	122.610862	1.648854
0.004468	1.411506	180.931334	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.798218	-82.255439	-1.267182
-0.006126	-0.722829	-29.427011	
0.14083	-12.798218	-82.255439	-1.267182
-0.006126	-0.094494	-56.228831	
0.28165	-12.798218	-82.255439	-1.267182
-0.006126	-0.457410	-74.781014	
0.42248	-12.798218	-82.255439	-1.267182
-0.006126	-1.133509	-106.477832	
0.56330	-12.798218	-82.255439	-1.267182
-0.006126	-1.824046	-155.645921	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.525520	111.142180	1.900405
0.004309	0.555115	105.610003	
0.14083	9.525520	111.142180	1.900405
0.004309	0.287261	102.363274	
0.28165	9.525520	111.142180	1.900405
0.004309	0.421446	107.363945	
0.42248	9.525520	111.142180	1.900405
0.004309	1.065399	127.968109	
0.56330	9.525520	111.142180	1.900405
0.004309	1.709273	156.598666	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.525755	-80.578017	-1.534997
-0.005090	-0.872168	-45.941279	
0.14083	-11.525755	-80.578017	-1.534997
-0.005090	-0.235627	-59.610233	
0.28165	-11.525755	-80.578017	-1.534997
-0.005090	-0.526491	-78.506505	
0.42248	-11.525755	-80.578017	-1.534997
-0.005090	-1.310606	-104.420522	
0.56330	-11.525755	-80.578017	-1.534997
-0.005090	-2.106721	-145.100500	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.195618	54.199051	0.637532
0.004264	0.377277	120.373025	
0.14083	2.195618	54.199051	0.637532
0.004264	0.111836	115.435006	
0.28165	2.195618	54.199051	0.637532
0.004264	0.064666	110.665431	
0.42248	2.195618	54.199051	0.637532
0.004264	0.161831	118.891801	
0.56330	2.195618	54.199051	0.637532
0.004264	0.259254	136.146873	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.252843	-46.610869	-0.232080
-0.004552	-0.139851	-4.375145	
0.14083	-6.252843	-46.610869	-0.232080
-0.004552	-0.051363	-3.844209	
0.28165	-6.252843	-46.610869	-0.232080
-0.004552	-0.175064	-3.580889	
0.42248	-6.252843	-46.610869	-0.232080
-0.004552	-0.427828	-6.896855	
0.56330	-6.252843	-46.610869	-0.232080
-0.004552	-0.694673	-27.462190	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.836848	60.224362	1.256705
0.004476	0.723906	126.474884	
0.14083	6.836848	60.224362	1.256705
0.004476	0.198607	129.789237	
0.28165	6.836848	60.224362	1.256705
0.004476	0.209470	136.362976	
0.42248	6.836848	60.224362	1.256705
0.004476	0.528666	156.240658	
0.56330	6.836848	60.224362	1.256705
0.004476	0.847937	184.975249	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.152289	-74.355744	-0.760690
-0.004344	-0.436137	-15.533671	
0.14083	-6.152289	-74.355744	-0.760690
-0.004344	-0.125219	-15.336084	
0.28165	-6.152289	-74.355744	-0.760690
-0.004344	-0.348236	-16.694240	
0.42248	-6.152289	-74.355744	-0.760690
-0.004344	-0.861028	-21.997102	
0.56330	-6.152289	-74.355744	-0.760690
-0.004344	-1.387108	-44.145853	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.819308	103.824302	1.652506
0.002891	0.936940	121.451224	
0.14083	7.819308	103.824302	1.652506
0.002891	0.245583	112.575348	
0.28165	7.819308	103.824302	1.652506
0.002891	0.319708	125.661774	
0.42248	7.819308	103.824302	1.652506
0.002891	0.807417	151.694905	
0.56330	7.819308	103.824302	1.652506
0.002891	1.295148	184.005044	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.948698	-82.373733	-1.162642
-0.003986	-0.659521	-23.652564	
0.14083	-10.948698	-82.373733	-1.162642
-0.003986	-0.177306	-22.783296	
0.28165	-10.948698	-82.373733	-1.162642
-0.003986	-0.460409	-46.332902	
0.42248	-10.948698	-82.373733	-1.162642
-0.003986	-1.143608	-75.955854	
0.56330	-10.948698	-82.373733	-1.162642
-0.003986	-1.835734	-116.841117	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.767591	97.345115	1.957551
0.003187	1.108012	109.042338	
0.14083	8.767591	97.345115	1.957551
0.003187	0.288668	97.232914	
0.28165	8.767591	97.345115	1.957551
0.003187	0.399806	105.389364	
0.42248	8.767591	97.345115	1.957551
0.003187	1.010786	126.733599	
0.56330	8.767591	97.345115	1.957551
0.003187	1.621492	153.306990	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.336807	-77.400292	-1.456123
-0.003339	-0.824155	-44.676334	
0.14083	-10.336807	-77.400292	-1.456123
-0.003339	-0.217516	-40.630252	
0.28165	-10.336807	-77.400292	-1.456123
-0.003339	-0.543325	-58.110944	
0.42248	-10.336807	-77.400292	-1.456123
-0.003339	-1.355942	-82.556841	
0.56330	-10.336807	-77.400292	-1.456123
-0.003339	-2.176041	-116.377578	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.986376	17.418043	0.928953
0.001096	0.524214	14.996812	
0.14083	2.986376	17.418043	0.928953
0.001096	0.134837	8.400490	
0.28165	2.986376	17.418043	0.928953
0.001096	0.201027	3.268172	
0.42248	2.986376	17.418043	0.928953
0.001096	0.509618	2.760894	
0.56330	2.986376	17.418043	0.928953
0.001096	0.817965	3.214438	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.443339	-11.984992	-0.735034
-8.96E-06	-0.413824	-40.519025	
0.14083	-2.443339	-11.984992	-0.735034
-8.96E-06	-0.104591	-36.136088	
0.28165	-2.443339	-11.984992	-0.735034
-8.96E-06	-0.254901	-32.546156	
0.42248	-2.443339	-11.984992	-0.735034
-8.96E-06	-0.644318	-33.054998	
0.56330	-2.443339	-11.984992	-0.735034
-8.96E-06	-1.033769	-34.036280	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.329418	28.216271	1.524933
0.001835	0.859450	21.941497	
0.14083	7.329418	28.216271	1.524933
0.001835	0.220221	14.777759	
0.28165	7.329418	28.216271	1.524933
0.001835	0.351356	14.303043	
0.42248	7.329418	28.216271	1.524933
0.001835	0.890349	20.429895	
0.56330	7.329418	28.216271	1.524933
0.001835	1.428925	27.914861	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.358281	-32.164374	-1.284046
-0.000171	-0.723431	-59.211435	
0.14083	-3.358281	-32.164374	-1.284046
-0.000171	-0.183675	-51.278578	
0.28165	-3.358281	-32.164374	-1.284046
-0.000171	-0.420053	-47.358784	
0.42248	-3.358281	-32.164374	-1.284046
-0.000171	-1.058863	-48.698040	
0.56330	-3.358281	-32.164374	-1.284046
-0.000171	-1.698071	-51.498127	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.197344	27.424770	1.877616
0.001365	1.053997	68.729284	
0.14083	9.197344	27.424770	1.877616
0.001365	0.269085	83.719779	
0.28165	9.197344	27.424770	1.877616
0.001365	0.378396	103.664410	
0.42248	9.197344	27.424770	1.877616
0.001365	0.957253	129.128581	
0.56330	9.197344	27.424770	1.877616
0.001365	1.535909	155.495385	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.047723	-76.401111	-1.379021
-7.78E-06	-0.774552	-54.053805	
0.14083	-4.047723	-76.401111	-1.379021
-7.78E-06	-0.194781	-49.578169	
0.28165	-4.047723	-76.401111	-1.379021
-7.78E-06	-0.519528	-47.580133	
0.42248	-4.047723	-76.401111	-1.379021
-7.78E-06	-1.306524	-50.126970	
0.56330	-4.047723	-76.401111	-1.379021
-7.78E-06	-2.093390	-53.410666	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.536269	91.204615	2.037294
0.003539	1.155535	122.857151	
0.14083	8.536269	91.204615	2.037294
0.003539	0.302626	109.154988	
0.28165	8.536269	91.204615	2.037294
0.003539	0.394052	110.539820	
0.42248	8.536269	91.204615	2.037294
0.003539	0.996561	128.668381	
0.56330	8.536269	91.204615	2.037294
0.003539	1.598884	153.677270	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2624

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.099638	-74.804285	-1.435720
-0.003205	-0.812929	-51.114554	
0.14083	-10.099638	-74.804285	-1.435720
-0.003205	-0.214506	-44.026521	
0.28165	-10.099638	-74.804285	-1.435720
-0.003205	-0.563779	-52.082303	
0.42248	-10.099638	-74.804285	-1.435720
-0.003205	-1.409376	-71.331615	
0.56330	-10.099638	-74.804285	-1.435720
-0.003205	-2.262919	-101.335737	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.808043	154.303514	1.171384
0.006082	0.670800	125.107661	
0.14083	9.808043	154.303514	1.171384
0.006082	0.180407	127.961319	
0.28165	9.808043	154.303514	1.171384
0.006082	0.217987	134.723831	
0.42248	9.808043	154.303514	1.171384
0.006082	0.885787	156.883749	
0.56330	9.808043	154.303514	1.171384
0.006082	0.881676	188.972350	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.888304	-85.421470	-0.791797
-0.008083	-0.446113	-54.366845	
0.14083	-14.888304	-85.421470	-0.791797
-0.008083	-0.125295	-54.955750	
0.28165	-14.888304	-85.421470	-0.791797
-0.008083	-0.563446	-78.060508	
0.42248	-14.888304	-85.421470	-0.791797
-0.008083	-0.803587	-113.826840	
0.56330	-14.888304	-85.421470	-0.791797
-0.008083	-1.294633	-171.858516	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.525520	143.626545	2.037294
0.006086	1.155535	126.474984	
0.14083	9.525520	143.626545	2.037294
0.006086	0.302626	129.789237	
0.28165	9.525520	143.626545	2.037294
0.006086	0.421446	136.362976	
0.42248	9.525520	143.626545	2.037294
0.006086	1.065399	156.240658	
0.56330	9.525520	143.626545	2.037294
0.006086	1.709273	184.975249	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.740600	-82.373733	-1.534997
-0.008204	-0.872168	-59.211435	
0.14083	-14.740600	-82.373733	-1.534997
-0.008204	-0.235627	-59.610233	
0.28165	-14.740600	-82.373733	-1.534997
-0.008204	-0.563779	-78.506505	
0.42248	-14.740600	-82.373733	-1.534997
-0.008204	-1.409376	-106.477832	
0.56330	-14.740600	-82.373733	-1.534997
-0.008204	-2.262919	-163.627418	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.808043	154.303514	2.037294
0.006086	1.155535	126.474984	
0.14083	9.808043	154.303514	2.037294
0.006086	0.302626	129.789237	
0.28165	9.808043	154.303514	2.037294
0.006086	0.421446	136.362976	
0.42248	9.808043	154.303514	2.037294
0.006086	1.065399	156.883749	
0.56330	9.808043	154.303514	2.037294
0.006086	1.709273	188.972350	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2625

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.888304	-85.421470	-1.534997
-0.008204	-0.872168	-59.211435	
0.14083	-14.888304	-85.421470	-1.534997
-0.008204	-0.235627	-59.610233	
0.28165	-14.888304	-85.421470	-1.534997
-0.008204	-0.563779	-78.506505	
0.42248	-14.888304	-85.421470	-1.534997
-0.008204	-1.409376	-113.826840	
0.56330	-14.888304	-85.421470	-1.534997
-0.008204	-2.262919	-171.858516	

ELEM 240 ========== LENGTH = 2.976798

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	8.897313	37.574436	0.443807
1.70E-05	0.489373	45.535031	
0.57753	8.897313	37.574436	0.443807
1.70E-05	0.303408	29.852925	
0.71836	8.897313	37.574436	0.443807
1.70E-05	0.117568	14.258086	
0.85918	8.897313	37.574436	0.443807
1.70E-05	0.058432	2.502556	
1.00000	8.897313	37.574436	0.443807
1.70E-05	0.231385	2.634564	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-2.518848	-33.234807	-0.412529
-0.001531	-0.460343	-65.908478	
0.57753	-2.518848	-33.234807	-0.412529
-0.001531	-0.287413	-52.094003	
0.71836	-2.518848	-33.234807	-0.412529
-0.001531	-0.114477	-38.412272	
0.85918	-2.518848	-33.234807	-0.412529
-0.001531	-0.058398	-25.3493225	
1.00000	-2.518848	-33.234807	-0.412529
-0.001531	-0.254801	-19.086708	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	10.491540	64.622739	0.826760
0.005850	0.895377	118.487528	
0.57753	10.491540	64.622739	0.826760
0.005850	0.557232	93.109515	
0.71836	10.491540	64.622739	0.826760
0.005850	0.223402	78.968971	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2626

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85918	10.491540	64.622739	0.826760
0.005850	0.109217	85.174424	
1.00000	10.491540	64.622739	0.826760
0.005850	0.340678	104.223136	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-15.852472	-117.565950	-0.603381
-0.007744	-0.671110	-109.972554	
0.57753	-15.852472	-117.565950	-0.603381
-0.007744	-0.418185	-68.775607	
0.71836	-15.852472	-117.565950	-0.603381
-0.007744	-0.165221	-48.009470	
0.85918	-15.852472	-117.565950	-0.603381
-0.007744	-0.145365	-32.148575	
1.00000	-15.852472	-117.565950	-0.603381
-0.007744	-0.490994	-17.004281	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	11.900863	72.006014	1.098899
0.004575	1.210471	123.493736	
0.57753	11.900863	72.006014	1.098899
0.004575	0.755650	98.898530	
0.71836	11.900863	72.006014	1.098899
0.004575	0.303727	82.308607	
0.85918	11.900863	72.006014	1.098899
0.004575	0.121627	80.248478	
1.00000	11.900863	72.006014	1.098899
0.004575	0.413263	92.172739	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-13.610770	-125.700263	-0.730102
-0.005626	-0.811005	-137.514039	
0.57753	-13.610770	-125.700263	-0.730102
-0.005626	-0.554968	-90.580125	
0.71836	-13.610770	-125.700263	-0.730102
-0.005626	-0.198833	-57.793447	
0.85918	-13.610770	-125.700263	-0.730102
-0.005626	-0.172360	-28.463577	
1.00000	-13.610770	-125.700263	-0.730102
-0.005626	-0.632362	-18.664947	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	16.986170	72.841417	1.201571
0.004311	1.331021	127.198620	
0.57753	16.986170	72.841417	1.201571
0.004311	0.832162	101.320037	
0.71836	16.986170	72.841417	1.201571
0.004311	0.335715	82.141504	
0.85918	16.986170	72.841417	1.201571
0.004311	0.135045	75.173809	
1.00000	16.986170	72.841417	1.201571
0.004311	0.482424	80.259489	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-13.465998	-108.205367	-0.857234
-0.004674	-0.955004	-134.612890	
0.57753	-13.465998	-108.205367	-0.857234
-0.004674	-0.595664	-94.508037	
0.71836	-13.465998	-108.205367	-0.857234
-0.004674	-0.236237	-66.430086	
0.85918	-13.465998	-108.205367	-0.857234
-0.004674	-0.180775	-41.870593	
1.00000	-13.465998	-108.205367	-0.857234
-0.004674	-0.683950	-33.330058	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	1.234606	13.775085	0.436025
0.005152	0.470678	42.580822	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2627

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57753	1.234606	13.775085	0.436025
0.005152	0.294854	39.990869	
0.71836	1.234606	13.775085	0.436025
0.005152	0.122644	47.176465	
0.85918	1.234606	13.775085	0.436025
0.005152	0.051603	72.112495	
1.00000	1.234606	13.775085	0.436025
0.005152	0.122591	105.566421	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-14.712463	-93.659957	-0.212430
-0.005074	-0.233661	-55.843695	
0.57753	-14.712463	-93.659957	-0.212430
-0.005074	-0.144617	-23.443808	
0.71836	-14.712463	-93.659957	-0.212430
-0.005074	-0.055558	-8.296565	
0.85918	-14.712463	-93.659957	-0.212430
-0.005074	-0.078621	-3.673421	
1.00000	-14.712463	-93.659957	-0.212430
-0.005074	-0.260546	-2.951119	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	8.889197	30.385657	0.819646
0.005460	0.903580	61.711115	
0.57753	8.889197	30.385657	0.819646
0.005460	0.566531	55.166019	
0.71836	8.889197	30.385657	0.819646
0.005460	0.232796	57.842326	
0.85918	8.889197	30.385657	0.819646
0.005460	0.083840	77.106232	
1.00000	8.889197	30.385657	0.819646
0.005460	0.255342	104.075674	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-13.617754	-108.631238	-0.448749
-0.004723	-0.497147	-91.494608	
0.57753	-13.617754	-108.631238	-0.448749
-0.004723	-0.309047	-52.832132	
0.71836	-13.617754	-108.631238	-0.448749
-0.004723	-0.120838	-30.552059	
0.85918	-13.617754	-108.631238	-0.448749
-0.004723	-0.126141	-12.802548	
1.00000	-13.617754	-108.631238	-0.448749
-0.004723	-0.470979	-15.659496	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	12.611094	79.486541	1.093050
0.004064	1.211485	157.021145	
0.57753	12.611094	79.486541	1.093050
0.004064	0.757922	129.248329	
0.71836	12.611094	79.486541	1.093050
0.004064	0.306705	108.143481	
0.85918	12.611094	79.486541	1.093050
0.004064	0.127110	97.254905	
1.00000	12.611094	79.486541	1.093050
0.004064	0.380589	97.254905	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-18.644083	-108.436970	-0.673021
-0.004236	-0.747954	-119.875354	
0.57753	-18.644083	-108.436970	-0.673021
-0.004236	-0.465820	-79.560521	
0.71836	-18.644083	-108.436970	-0.673021
-0.004236	-0.183577	-51.197576	
0.85918	-18.644083	-108.436970	-0.673021
-0.004236	-0.163953	-27.269644	
1.00000	-18.644083	-108.436970	-0.673021
-0.004236	-0.621577	-22.216572	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2628

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	13.288881	78.422849	1.197131
0.003889	1.332913	156.944731	
0.57753	13.288881	78.422849	1.197131
0.003889	0.834970	128.743186	
0.71836	13.288881	78.422849	1.197131
0.003889	0.339014	106.104787	
0.85918	13.288881	78.422849	1.197131
0.003889	0.128523	93.559654	
1.00000	13.288881	78.422849	1.197131
0.003889	0.467649	86.844541	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-18.175047	-92.061895	-0.832140
-0.003544	-0.927700	-117.639123	
0.57753	-18.175047	-92.061895	-0.832140
-0.003544	-0.578862	-83.413756	
0.71836	-18.175047	-92.061895	-0.832140
-0.003544	-0.229942	-59.158896	
0.85918	-18.175047	-92.061895	-0.832140
-0.003544	-0.173258	-38.452778	
1.00000	-18.175047	-92.061895	-0.832140
-0.003544	-0.674622	-33.843913	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	1.529044	18.360332	0.438918
0.000752	0.496491	41.774352	
0.57753	1.529044	18.360332	0.438918
0.000752	0.312507	34.102451	
0.71836	1.529044	18.360332	0.438918
0.000752	0.128587	26.451815	
0.85918	1.529044	18.360332	0.438918
0.000752	0.057947	18.908621	
1.00000	1.529044	18.360332	0.438918
0.000752	0.237783	11.577819	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-4.779757	-2.675371	-0.428779
-6.79E-06	-0.481194	-26.286348	
0.57753	-4.779757	-2.675371	-0.428779
-6.79E-06	-0.301450	-25.211568	
0.71836	-4.779757	-2.675371	-0.428779
-6.79E-06	-0.121699	-24.209001	
0.85918	-4.779757	-2.675371	-0.428779
-6.79E-06	-0.055525	-23.230546	
1.00000	-4.779757	-2.675371	-0.428779
-6.79E-06	-0.239486	-22.286438	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	12.786459	34.033276	0.780769
0.001534	0.880473	67.673712	
0.57753	12.786459	34.033276	0.780769
0.001534	0.553443	53.658088	
0.71836	12.786459	34.033276	0.780769
0.001534	0.226609	40.131409	
0.85918	12.786459	34.033276	0.780769
0.001534	0.093298	28.503224	
1.00000	12.786459	34.033276	0.780769
0.001534	0.379240	17.673855	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-7.105116	-13.191890	-0.683388
-0.000195	-0.766664	-54.346334	
0.57753	-7.105116	-13.191890	-0.683388
-0.000195	-0.480176	-49.795335	
0.71836	-7.105116	-13.191890	-0.683388
-0.000195	-0.193665	-46.418499	
0.85918	-7.105116	-13.191890	-0.683388
-0.000195	-0.101490	-43.740746	
1.00000	-7.105116	-13.191890	-0.683388
-0.000195	-0.428740	-41.685927	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2629

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.413335	40.862400	1.059677
0.001966	1.194020	80.262192	
0.57753	9.413335	40.862400	1.059677
0.001966	0.750287	68.133274	
0.71836	9.413335	40.862400	1.059677
0.001966	0.306825	57.158409	
0.85918	9.413335	40.862400	1.059677
0.001966	0.111681	48.698908	
1.00000	9.413335	40.862400	1.059677
0.001966	0.439467	47.521967	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-10.580425	-57.516829	-0.784142
-0.000311	-0.873393	-93.649068	
0.57753	-10.580425	-57.516829	-0.784142
-0.000311	-0.546694	-70.717002	
0.71836	-10.580425	-57.516829	-0.784142
-0.000311	-0.217901	-49.722677	
0.85918	-10.580425	-57.516829	-0.784142
-0.000311	-0.138960	-33.442943	
1.00000	-10.580425	-57.516829	-0.784142
-0.000311	-0.583031	-35.751789	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	10.344375	72.959035	1.196767
0.004512	1.333429	155.768090	
0.57753	10.344375	72.959835	1.196767
0.004512	0.836334	129.818963	
0.71836	10.344375	72.959835	1.196767
0.004512	0.341604	110.360647	
0.85918	10.344375	72.959835	1.196767
0.004512	0.139606	102.627473	
1.00000	10.344375	72.959835	1.196767
0.004512	0.470179	100.740809	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-20.732734	-90.623445	-0.837512
-0.003720	-0.934196	-109.591040	
0.57753	-20.732734	-90.623445	-0.837512
-0.003720	-0.583151	-76.544381	
0.71836	-20.732734	-90.623445	-0.837512
-0.003720	-0.231970	-55.093500	
0.85918	-20.732734	-90.623445	-0.837512
-0.003720	-0.172311	-37.161644	
1.00000	-20.732734	-90.623445	-0.837512
-0.003720	-0.673443	-34.924958	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	17.521185	31.899398	0.811844
1.28E-05	0.898100	39.699123	
0.57753	17.521185	31.899398	0.811844
1.28E-05	0.557730	26.552168	
0.71836	17.521185	31.899398	0.811844
1.28E-05	0.217433	13.705919	
0.85918	17.521185	31.899398	0.811844
1.28E-05	0.112814	3.626830	
1.00000	17.521185	31.899398	0.811844
1.28E-05	0.456559	3.299720	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-3.419771	-48.289467	-0.820600
-0.001636	-0.919464	-103.594460	
0.57753	-3.419771	-48.289467	-0.820600
-0.001636	-0.575477	-83.586757	
0.71836	-3.419771	-48.289467	-0.820600
-0.001636	-0.231591	-63.832733	
0.85918	-3.419771	-48.289467	-0.820600
-0.001636	-0.122227	-45.846083	
1.00000	-3.419771	-48.289467	-0.820600
-0.001636	-0.462142	-35.557743	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2630

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	18.529050	55.627828	1.363796
0.006110	1.497547	108.220094	
0.57753	18.529050	55.627828	1.363796
0.006110	0.934591	87.301600	
0.71836	18.529050	55.627828	1.363796
0.006110	0.374398	78.822613	
0.85918	18.529050	55.627828	1.363796
0.006110	0.197720	89.219985	
1.00000	18.529050	55.627828	1.363796
0.006110	0.674699	109.771401	

COMB DL-G1-2 ---------- MIN

```
REL DIST          P          V2          V3
     T          M2          M3
0.43671   -20.139796 -131.927140   -1.169406
-0.007790   -1.301209 -155.985056
0.57753   -20.139796 -131.927140   -1.169406
-0.007790   -0.811847 -102.776311
0.71836   -20.139796 -131.927140   -1.169406
-0.007790   -0.322748  -74.482164
0.85918   -20.139796 -131.927140   -1.169406
-0.007790   -0.223949  -51.167524
1.00000   -20.139796 -131.927140   -1.169406
-0.007790   -0.792841  -32.836746

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    19.962038   67.639993    1.802793
 0.004857    1.999703  127.744119
0.57753    19.962038   67.639993    1.802793
 0.004857    1.250366  103.126121
0.71836    19.962038   67.639993    1.802793
 0.004857    0.503153   87.663144
0.85918    19.962038   67.639993    1.802793
 0.004857    0.236830   86.592542
1.00000    19.962038   67.639993    1.802793
 0.004857    0.861312  101.891428

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -19.766793 -132.993256   -1.512847
-0.005856   -1.684767 -168.817007
0.57753   -19.766793 -132.993256   -1.512847
-0.005856   -1.051023 -114.882717
0.71836   -19.766793 -132.993256   -1.512847
-0.005856   -0.417339  -78.880003
0.85918   -19.766793 -132.993256   -1.512847
-0.005856   -0.272593  -46.416636
1.00000   -19.766793 -132.993256   -1.512847
-0.005856   -1.026305  -33.227604

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    24.047904   74.469924    2.038936
 0.004553    2.269372  139.172030
0.57753    24.047904   74.469924    2.038936
 0.004553    1.419987  111.279389
0.71836    24.047904   74.469924    2.038936
 0.004553    0.572431   91.075136
0.85918    24.047904   74.469924    2.038936
 0.004553    0.265376   83.060276
1.00000    24.047904   74.469924    2.038936
 0.004553    0.998183   89.341373

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -19.836892 -113.960239   -1.767012
-0.004866   -1.972016 -159.522743
0.57753   -19.836892 -113.960239   -1.767012
-0.004866   -1.231512 -113.496880
0.71836   -19.836892 -113.960239   -1.767012
-0.004866   -0.491102  -82.549253
0.85918   -19.836892 -113.960239   -1.767012
-0.004866   -0.299225  -55.227425
1.00000   -19.836892 -113.960239   -1.767012
-0.004866   -1.152214  -44.777965
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2631

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    2.044287   14.214717    0.602850
 0.004504    0.665548   48.062048
0.57753    2.044287   14.214717    0.602850
 0.004504    0.419010   45.052364
0.71836    2.044287   14.214717    0.602850
 0.004504    0.174407   51.436836
0.85918    2.044287   14.214717    0.602850
 0.004504    0.080534   73.906428
1.00000    2.044287   14.214717    0.602850
 0.004504    0.230495  101.721646

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -18.472745  -81.591278   -0.379346
-0.004236   -0.415929  -56.087800
0.57753   -18.472745  -81.591278   -0.379346
-0.004236   -0.257545  -23.847833
0.71836   -18.472745  -81.591278   -0.379346
-0.004236   -0.099344   -4.554308
0.85918   -18.472745  -81.591278   -0.379346
-0.004236   -0.097955   -4.799878
1.00000   -18.472745  -81.591278   -0.379346
-0.004236   -0.348850   -4.247027

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    10.390640   37.376625    1.265544
 0.004937    1.410104   83.516610
0.57753    10.390640   37.376625    1.265544
 0.004937    0.985844   71.939465
0.71836    10.390640   37.376625    1.265544
 0.004937    0.363362   69.182988
0.85918    10.390640   37.376625    1.265544
 0.004937    0.158788   80.760996
1.00000    10.390640   37.376625    1.265544
 0.004937    0.553018  103.767304

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -18.160955  -92.866006   -0.962271
-0.004043   -1.068990  -84.310983
0.57753   -18.160955  -92.866006   -0.962271
-0.004043   -0.665684  -47.298510
0.71836   -18.160955  -92.866006   -0.962271
-0.004043   -0.262941  -27.459477
0.85918   -18.160955  -92.866006   -0.962271
-0.004043   -0.187511  -12.753553
1.00000   -18.160955  -92.866006   -0.962271
-0.004043   -0.716248  -16.513558

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    15.954667   79.625373    1.755100
 0.003444    1.959731  167.060496
0.57753    15.954667   79.625373    1.755100
 0.003444    1.227104  137.170289
0.71836    15.954667   79.625373    1.755100
 0.003444    0.496992  113.280431
0.85918    15.954667   79.625373    1.755100
 0.003444    0.215599   99.724274
1.00000    15.954667   79.625373    1.755100
 0.003444    0.802285   97.155093

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -23.661282 -102.211077   -1.413599
-0.003562   -1.573207 -129.512619
0.57753   -23.661282 -102.211077   -1.413599
-0.003562   -0.980747  -88.235646
0.71836   -23.661282 -102.211077   -1.413599
-0.003562   -0.388546  -58.397436
0.85918   -23.661282 -102.211077   -1.413599
-0.003562   -0.252143  -33.489940
1.00000   -23.661282 -102.211077   -1.413599
-0.003562   -0.986348  -25.960554
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2632

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    16.387860   83.876243    2.039583
 0.003385    2.281972  175.008601
0.57753    16.387860   83.876243    2.039583
 0.003385    1.430454  142.913322
0.71836    16.387860   83.876243    2.039583
 0.003385    0.580180  115.903181
0.85918    16.387860   83.876243    2.039583
 0.003385    0.252192   97.558237
1.00000    16.387860   83.876243    2.039583
 0.003385    0.964576   88.801061

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -24.284523  -87.148324   -1.710476
-0.002985   -1.907353 -125.582022
0.57753   -24.284523  -87.148324   -1.710476
-0.002985   -1.190264  -90.508487
0.71836   -24.284523  -87.148324   -1.710476
-0.002985   -0.473284  -65.063958
0.85918   -24.284523  -87.148324   -1.710476
-0.002985   -0.286016  -43.583969
1.00000   -24.284523  -87.148324   -1.710476
-0.002985   -1.139842  -37.263001

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    2.376353   26.121366    0.902916
 0.000788    1.018422   56.993208
0.57753    2.376353   26.121366    0.902916
 0.000788    0.639941   46.351359
0.71836    2.376353   26.121366    0.902916
 0.000788    0.261501   35.874158
0.85918    2.376353   26.121366    0.902916
 0.000788    0.111589   25.746311
1.00000    2.376353   26.121366    0.902916
 0.000788    0.454224   16.083437

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -9.571063  -3.702771   -0.815612
-3.99E-06   -0.912523  -26.781550
0.57753   -9.571063  -3.702771   -0.815612
-3.99E-06   -0.570393  -25.563124
0.71836   -9.571063  -3.702771   -0.815612
-3.99E-06   -0.228088  -24.535108
0.85918   -9.571063  -3.702771   -0.815612
-3.99E-06   -0.117052  -23.866819
1.00000   -9.571063  -3.702771   -0.815612
-3.99E-06   -0.495807  -23.613035

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    14.213311   48.314133    1.522502
 0.001534    1.713106   94.153445
0.57753    14.213311   48.314133    1.522502
 0.001534    1.075150   74.519485
0.71836    14.213311   48.314133    1.522502
 0.001534    0.437374   55.479658
0.85918    14.213311   48.314133    1.522502
 0.001534    0.189301   37.869585
1.00000    14.213311   48.314133    1.522502
 0.001534    0.772669   22.184305

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -12.741052  -12.910852   -1.390371
-0.000125   -1.557708  -52.571315
0.57753   -12.741052  -12.910852   -1.390371
-0.000125   -0.974637  -47.949435
0.71836   -12.741052  -12.910852   -1.390371
-0.000125   -0.391037  -44.402021
0.85918   -12.741052  -12.910852   -1.390371
-0.000125   -0.201344  -42.001368
1.00000   -12.741052  -12.910852   -1.390371
-0.000125   -0.840441  -42.891119
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2633

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    11.326912   54.809228    1.880011
 0.001630    2.118465  113.789329
0.57753    11.326912   54.809228    1.880011
 0.001630    1.330368   93.730857
0.71836    11.326912   54.809228    1.880011
 0.001630    0.542755   74.604290
0.85918    11.326912   54.809228    1.880011
 0.001630    0.222104   58.927979
1.00000    11.326912   54.809228    1.880011
 0.001630    0.892377   53.874768

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -18.486201  -47.446848   -1.597962
-5.56E-06   -1.784590  -83.281532
0.57753   -18.486201  -47.446848   -1.597962
-5.56E-06   -1.114327  -64.475925
0.71836   -18.486201  -47.446848   -1.597962
-5.56E-06   -0.443747  -46.570786
0.85918   -18.486201  -47.446848   -1.597962
-5.56E-06   -0.246943  -34.169208
1.00000   -18.486201  -47.446848   -1.597962
-5.56E-06   -1.035673  -38.064990

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    12.986349   81.902388    2.061765
 0.003735    2.310970  180.627837
0.57753    12.986349   81.902388    2.061765
 0.003735    1.450517  149.583687
0.71836    12.986349   81.902388    2.061765
 0.003735    0.591343  124.174244
0.85918    12.986349   81.902388    2.061765
 0.003735    0.252432  108.640304
1.00000    12.986349   81.902388    2.061765
 0.003735    0.960377  102.108556

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -28.798494  -80.608199   -1.700564
-0.002829   -1.895233 -110.549676
0.57753   -28.798494  -80.608199   -1.700564
-0.002829   -1.182365  -78.522422
0.71836   -28.798494  -80.608199   -1.700564
-0.002829   -0.469368  -57.066566
0.85918   -28.798494  -80.608199   -1.700564
-0.002829   -0.285347  -40.879098
1.00000   -28.798494  -80.608199   -1.700564
-0.002829   -1.148937  -38.514483

COMB DB ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    16.986170   79.486541    1.201571
 0.005850    1.333429  157.021145
0.57753    16.986170   79.486541    1.201571
 0.005850    0.836334  129.818963
0.71836    16.986170   79.486541    1.201571
 0.005850    0.341604  110.360647
0.85918    16.986170   79.486541    1.201571
 0.005850    0.135045  102.622773
1.00000    16.986170   79.486541    1.201571
 0.005850    0.482424  105.566421

COMB DB ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -20.732734 -125.700263   -0.857234
-0.007744   -0.955004 -137.514039
0.57753   -20.732734 -125.700263   -0.857234
-0.007744   -0.595664  -94.508037
0.71836   -20.732734 -125.700263   -0.857234
-0.007744   -0.236237  -66.430086
0.85918   -20.732734 -125.700263   -0.857234
-0.007744   -0.180775  -43.740746
1.00000   -20.732734 -125.700263   -0.857234
-0.007744   -0.663950  -41.685927
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2634

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    24.047904   83.876243    2.061765
 0.006110    2.310970  180.627837
0.57753    24.047904   83.876243    2.061765
 0.006110    1.450517  149.583687
0.71836    24.047904   83.876243    2.061765
 0.006110    0.591343  124.174244
0.85918    24.047904   83.876243    2.061765
 0.006110    0.265376  108.640304
1.00000    24.047904   83.876243    2.061765
 0.006110    0.998183  109.771401

COMB DL ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -28.798494 -132.993256   -1.767012
-0.007790   -1.972016 -168.817007
0.57753   -28.798494 -132.993256   -1.767012
-0.007790   -1.231512 -114.882717
0.71836   -28.798494 -132.993256   -1.767012
-0.007790   -0.491102  -82.549253
0.85918   -28.798494 -132.993256   -1.767012
-0.007790   -0.299225  -55.227425
1.00000   -28.798494 -132.993256   -1.767012
-0.007790   -1.152214  -44.777965

COMB CAR ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    24.047904   83.876243    2.061765
 0.006110    2.310970  180.627837
0.57753    24.047904   83.876243    2.061765
 0.006110    1.450517  149.583687
0.71836    24.047904   83.876243    2.061765
 0.006110    0.591343  124.174244
0.85918    24.047904   83.876243    2.061765
 0.006110    0.265376  108.640304
1.00000    24.047904   83.876243    2.061765
 0.006110    0.998183  109.771401

COMB CAR ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -28.798494 -132.993256   -1.767012
-0.007790   -1.972016 -168.817007
0.57753   -28.798494 -132.993256   -1.767012
-0.007790   -1.231512 -114.882717
0.71836   -28.798494 -132.993256   -1.767012
-0.007790   -0.491102  -82.549253
0.85918   -28.798494 -132.993256   -1.767012
-0.007790   -0.299225  -55.227425
1.00000   -28.798494 -132.993256   -1.767012
-0.007790   -1.152214  -44.777965

COMB DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43671    24.047904   83.876243    2.061765
 0.006110    2.310970  180.627837
0.57753    24.047904   83.876243    2.061765
 0.006110    1.450517  149.583687
0.71836    24.047904   83.876243    2.061765
 0.006110    0.591343  124.174244
0.85918    24.047904   83.876243    2.061765
 0.006110    0.265376  108.640304
1.00000    24.047904   83.876243    2.061765
 0.006110    0.998183  109.771401

COMB DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43671   -28.798494 -132.993256   -1.767012
-0.007790   -1.972016 -168.817007
0.57753   -28.798494 -132.993256   -1.767012
-0.007790   -1.231512 -114.882717
0.71836   -28.798494 -132.993256   -1.767012
-0.007790   -0.491102  -82.549253
0.85918   -28.798494 -132.993256   -1.767012
-0.007790   -0.299225  -55.227425
1.00000   -28.798494 -132.993256   -1.767012
-0.007790   -1.152214  -44.777965
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2635

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      241 ================== LENGTH
=     2.977854

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    8.892399   37.169099    0.367382
 7.21E-06    0.205237   2.633616
0.14086    8.892399   37.169099    0.367382
 7.21E-06    0.051141   -5.531175
0.28172    8.892399   37.169099    0.367382
 7.21E-06    0.111121   18.522060
0.42258    8.892399   37.169099    0.367382
 7.21E-06    0.277073   32.135609
0.56344    8.892399   37.169099    0.367382
 7.21E-06    0.443019   45.891984

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -2.518906  -33.122307   -0.395617
-0.001467   -0.220769  -19.098638
0.14086   -2.518906  -33.122307   -0.395617
-0.001467   -0.054788  -33.886994
0.28172   -2.518906  -33.122307   -0.395617
-0.001467   -0.102991  -49.327437
0.42258   -2.518906  -33.122307   -0.395617
-0.001467   -0.257084  -64.866902
0.56344   -2.518906  -33.122307   -0.395617
-0.001467   -0.411187  -80.431672

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    10.409794  129.949926    0.740601
 0.005888    0.443148  104.602038
0.14086    10.409794  129.949926    0.740601
 0.005888    0.134507   83.332330
0.28172    10.409794  129.949926    0.740601
 0.005888    0.156731   72.033453
0.42258    10.409794  129.949926    0.740601
 0.005888    0.388357   83.933121
0.56344    10.409794  129.949926    0.740601
 0.005888    0.619989  105.918187

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -17.440504  -55.650411   -0.552214
-0.007620   -0.306646  -16.973296
0.14086   -17.440504  -55.650411   -0.552214
-0.007620   -0.089305  -32.940152
0.28172   -17.440504  -55.650411   -0.552214
-0.007620   -0.211196  -55.543424
0.42258   -17.440504  -55.650411   -0.552214
-0.007620   -0.495072  -86.142413
0.56344   -17.440504  -55.650411   -0.552214
-0.007620   -0.802443 -137.522241

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    11.909968  116.357423    1.030335
 0.004158    0.596111   92.422204
0.14086    11.909968  116.357423    1.030335
 0.004158    0.165323   92.615935
0.28172    11.909968  116.357423    1.030335
 0.004158    0.186163  103.136297
0.42258    11.909968  116.357423    1.030335
 0.004158    0.459151  130.400096
0.56344    11.909968  116.357423    1.030335
 0.004158    0.732069  164.592840

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -14.716518  -84.026321   -0.650680
-0.005532   -0.359767  -18.631884
0.14086   -14.716518  -84.026321   -0.650680
-0.005532   -0.098422  -39.145932
0.28172   -14.716518  -84.026321   -0.650680
-0.005532   -0.293721  -66.295834
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2636

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
0.42258   -14.716518  -84.026321   -0.650680
-0.005532   -0.708365  -98.847315
0.56344   -14.716518  -84.026321   -0.650680
-0.005532   -1.139172 -145.517057

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    17.003457  109.693336    1.161661
 0.004137    0.666547   80.475019
0.14086    17.003457  109.693336    1.161661
 0.004137    0.180414   77.556537
0.28172    17.003457  109.693336    1.161661
 0.004137    0.226739   86.602106
0.42258    17.003457  109.693336    1.161661
 0.004137    0.562908  109.899006
0.56344    17.003457  109.693336    1.161661
 0.004137    0.899035  139.272314

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -14.401092  -73.735898   -0.801341
-0.004597   -0.445548  -50.150122
0.14086   -14.401092  -73.735898   -0.801341
-0.004597   -0.118624  -50.150261
0.28172   -14.401092  -73.735898   -0.801341
-0.004597   -0.329210  -72.625458
0.42258   -14.401092  -73.735898   -0.801341
-0.004597   -0.801976 -100.003593
0.56344   -14.401092  -73.735898   -0.801341
-0.004597   -1.288147 -140.802723

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    1.172615   69.040677    0.484928
 0.004923    0.296518  105.877128
0.14086    1.172615   69.040677    0.484928
 0.004923    0.094832   95.021706
0.28172    1.172615   69.040677    0.484928
 0.004923    0.048226   84.766297
0.42258    1.172615   69.040677    0.484928
 0.004923    0.119247   93.035850
0.56344    1.172615   69.040677    0.484928
 0.004923    0.184017  110.027827

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -16.046127  -42.236704   -0.161899
-0.004889   -0.087793   -2.936474
0.14086   -16.046127  -42.236704   -0.161899
-0.004889   -0.031935   -4.498517
0.28172   -16.046127  -42.236704   -0.161899
-0.004889   -0.131425   -6.853301
0.42258   -16.046127  -42.236704   -0.161899
-0.004889   -0.315265  -15.854466
0.56344   -16.046127  -42.236704   -0.161899
-0.004889   -0.518574  -42.227673

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    8.909425   81.849392    0.878379
 0.005070    0.514277  104.367005
0.14086    8.909425   81.849392    0.878379
 0.005070    0.147465   99.362549
0.28172    8.909425   81.849392    0.878379
 0.005070    0.111102   96.995752
0.42258    8.909425   81.849392    0.878379
 0.005070    0.272041  113.157312
0.56344    8.909425   81.849392    0.878379
 0.005070    0.432935  137.384179

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -14.891093  -61.111509   -0.383590
-0.004551   -0.210763  -15.646335
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2637

F R A M E   E L E M E N T   I N T E R N A
```

L FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.14086	-14.891093	-61.111509	-0.383590
-0.004551	-0.062857	-22.000400	
0.28172	-14.891093	-61.111509	-0.383590
-0.004551	-0.242268	-29.004020	
0.42258	-14.891093	-61.111509	-0.383590
-0.004551	-0.592467	-42.709097	
0.56344	-14.891093	-61.111509	-0.383590
-0.004551	-0.960831	-73.691889	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.636462	115.312362	1.076656
0.003684	0.613191	97.445459	
0.14086	12.636462	115.312362	1.076656
0.003684	0.162987	87.500508	
0.28172	12.636462	115.312362	1.076656
0.003684	0.172595	96.436037	
0.42258	12.636462	115.312362	1.076656
0.003684	0.426133	120.321307	
0.56344	12.636462	115.312362	1.076656
0.003684	0.679621	150.282587	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.546474	-74.891657	-0.604309
-0.004375	-0.334300	-22.190514	
0.14086	-19.546474	-74.891657	-0.604309
-0.004375	-0.090254	-26.005016	
0.28172	-19.546474	-74.891657	-0.604309
-0.004375	-0.304500	-54.504327	
0.42258	-19.546474	-74.891657	-0.604309
-0.004375	-0.743052	-87.858961	
0.56344	-19.546474	-74.891657	-0.604309
-0.004375	-1.194607	-133.663763	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.315330	108.517053	1.211141
0.003782	0.687706	87.011967	
0.14086	13.315330	108.517053	1.211141
0.003782	0.180842	73.574553	
0.28172	13.315330	108.517053	1.211141
0.003782	0.221696	81.006061	
0.42258	13.315330	108.517053	1.211141
0.003782	0.551212	101.230557	
0.56344	13.315330	108.517053	1.211141
0.003782	0.880682	126.475221	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.950456	-63.982147	-0.785444
-0.003660	-0.437178	-33.825172	
0.14086	-18.950456	-63.982147	-0.785444
-0.003660	-0.117728	-36.624809	
0.28172	-18.950456	-63.982147	-0.785444
-0.003660	-0.340440	-59.985962	
0.42258	-18.950456	-63.982147	-0.785444
-0.003660	-0.837518	-87.329959	
0.56344	-18.950456	-63.982147	-0.785444
-0.003660	-1.345495	-126.113984	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.537114	18.565954	0.491540
0.001120	0.277368	11.588540	
0.14086	1.537114	18.565954	0.491540
0.001120	0.071104	5.906599	
0.28172	1.537114	18.565954	0.491540
0.001120	0.123175	3.179194	
0.42258	1.537114	18.565954	0.491540
0.001120	0.310367	2.217787	
0.56344	1.537114	18.565954	0.491540
0.001120	0.497544	2.977605	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2638

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.813421	-2.633835	-0.446226
-9.49E-06	-0.251296	-22.291001	
0.14086	-4.813421	-2.633835	-0.446226
-9.49E-06	-0.064191	-21.393622	
0.28172	-4.813421	-2.633835	-0.446226
-9.49E-06	-0.135026	-20.517129	
0.42258	-4.813421	-2.633835	-0.446226
-9.49E-06	-0.341184	-19.888569	
0.56344	-4.813421	-2.633835	-0.446226
-9.49E-06	-0.547367	-20.255902	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.807982	36.322909	0.846424
0.002046	0.476519	17.703853	
0.14086	12.807982	36.322909	0.846424
0.002046	0.121435	9.084084	
0.28172	12.807982	36.322909	0.846424
0.002046	0.196219	6.323295	
0.42258	12.807982	36.322909	0.846424
0.002046	0.494030	8.837552	
0.56344	12.807982	36.322909	0.846424
0.002046	0.791856	12.347081	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.207694	-11.508670	-0.709963
-0.000189	-0.399385	-41.694886	
0.14086	-7.207694	-11.508670	-0.709963
-0.000189	-0.103515	-40.692229	
0.28172	-7.207694	-11.508670	-0.709963
-0.000189	-0.234375	-41.580579	
0.42258	-7.207694	-11.508670	-0.709963
-0.000189	-0.588668	-43.595009	
0.56344	-7.207694	-11.508670	-0.709963
-0.000189	-0.943709	-49.270478	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.493091	44.442804	1.146530
0.001872	0.645719	47.545798	
0.14086	9.493091	44.442804	1.146530
0.001872	0.164866	57.236651	
0.28172	9.493091	44.442804	1.146530
0.001872	0.212396	72.553262	
0.42258	9.493091	44.442804	1.146530
0.001872	0.529264	93.853850	
0.56344	9.493091	44.442804	1.146530
0.001872	0.846094	116.028008	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.727017	-55.081535	-0.755361
-0.000299	-0.421293	-35.748894	
0.14086	-10.727017	-55.081535	-0.755361
-0.000299	-0.106494	-41.402010	
0.28172	-10.727017	-55.081535	-0.755361
-0.000299	-0.317665	-47.239629	
0.42258	-10.727017	-55.081535	-0.755361
-0.000299	-0.797332	-53.920289	
0.56344	-10.727017	-55.081535	-0.755361
-0.000299	-1.278254	-64.098731	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.367386	108.755990	1.256201
0.004516	0.718111	100.945146	
0.14086	10.367386	108.755990	1.256201
0.004516	0.192363	82.739871	
0.28172	10.367386	108.755990	1.256201
0.004516	0.224587	79.752256	
0.42258	10.367386	108.755990	1.256201
0.004516	0.558998	96.141528	
0.56344	10.367386	108.755990	1.256201
0.004516	0.893315	118.603395	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2639

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.652116	-57.353163	-0.797102
-0.003825	-0.444192	-34.910822	
0.14086	-21.652116	-57.353163	-0.797102
-0.003825	-0.118928	-35.772681	
0.28172	-21.652116	-57.353163	-0.797102
-0.003825	-0.349733	-52.093159	
0.42258	-21.652116	-57.353163	-0.797102
-0.003825	-0.863788	-75.751806	
0.56344	-21.652116	-57.353163	-0.797102
-0.003825	-1.390657	-112.755377	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.512991	31.552689	0.658450
4.31E-06	0.358290	3.297404	
0.14086	17.512991	31.552689	0.658450
4.31E-06	0.082234	5.487803	
0.28172	17.512991	31.552689	0.658450
4.31E-06	0.236695	21.731311	
0.42258	17.512991	31.552689	0.658450
4.31E-06	0.596830	41.030382	
0.56344	17.512991	31.552689	0.658450
4.31E-06	0.956923	60.685712	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.417775	-48.156602	-0.858632
-0.001618	-0.483721	-35.547386	
0.14086	-3.417775	-48.156602	-0.858632
-0.001618	-0.123552	-34.361073	
0.28172	-3.417775	-48.156602	-0.858632
-0.001618	-0.193292	-43.957532	
0.42258	-3.417775	-48.156602	-0.858632
-0.001618	-0.469305	-56.402225	
0.56344	-3.417775	-48.156602	-0.858632
-0.001618	-0.745560	-69.174710	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.053854	119.180045	1.291668
0.005923	0.745511	109.836834	
0.14086	18.053854	119.180045	1.291668
0.005923	0.206907	86.135457	
0.28172	18.053854	119.180045	1.291668
0.005923	0.315393	77.976184	
0.42258	18.053854	119.180045	1.291668
0.005923	0.787121	94.085441	
0.56344	18.053854	119.180045	1.291668
0.005923	1.258874	121.465504	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-22.877554	-71.123856	-1.124651
-0.008165	-0.630303	-32.798994	
0.14086	-22.877554	-71.123856	-1.124651
-0.008165	-0.179129	-33.609006	
0.28172	-22.877554	-71.123856	-1.124651
-0.008165	-0.363413	-48.129991	
0.42258	-22.877554	-71.123856	-1.124651
-0.008165	-0.882348	-75.218273	
0.56344	-22.877554	-71.123856	-1.124651
-0.008165	-1.423440	-123.012594	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.677328	112.745246	1.751349
0.004395	0.994172	101.930132	
0.14086	19.677328	112.745246	1.751349
0.004395	0.263044	95.702784	
0.28172	19.677328	112.745246	1.751349
0.004395	0.407072	104.707024	
0.42258	19.677328	112.745246	1.751349
0.004395	1.015272	131.576457	
0.56344	19.677328	112.745246	1.751349
0.004395	1.623266	166.469087	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2640

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.747778	-90.136404	-1.448915
-0.006131	-0.808592	-33.178496	
0.14086	-21.747778	-90.136404	-1.448915
-0.006131	-0.215896	-40.946512	
0.28172	-21.747778	-90.136404	-1.448915
-0.006131	-0.494701	-61.434898	
0.42258	-21.747778	-90.136404	-1.448915
-0.006131	-1.212217	-91.316682	
0.56344	-21.747778	-90.136404	-1.448915
-0.006131	-1.945846	-135.912544	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.820570	111.989501	2.012569
0.004321	1.138277	89.383500	
0.14086	23.820570	111.989501	2.012569
0.004321	0.297071	80.204024	
0.28172	23.820570	111.989501	2.012569
0.004321	0.485803	88.084897	
0.42258	23.820570	111.989501	2.012569
0.004321	1.216888	111.241861	
0.56344	23.820570	111.989501	2.012569
0.004321	1.947731	141.273803	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.507678	-78.541079	-1.741662
-0.005095	-0.974790	-44.740071	
0.14086	-21.507678	-78.541079	-1.741662
-0.005095	-0.256746	-53.541839	
0.28172	-21.507678	-78.541079	-1.741662
-0.005095	-0.566535	-76.112218	
0.42258	-21.507678	-78.541079	-1.741662
-0.005095	-1.396483	-106.626843	
0.56344	-21.507678	-78.541079	-1.741662
-0.005095	-2.239869	-149.434568	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.728740	59.196458	0.722591
0.004149	0.430613	101.761447	
0.14086	1.728740	59.196458	0.722591
0.004149	0.130007	93.485070	
0.28172	1.728740	59.196458	0.722591
0.004149	0.087264	85.571083	
0.42258	1.728740	59.196458	0.722591
0.004149	0.211318	92.549785	
0.56344	1.728740	59.196458	0.722591
0.004149	0.335743	107.273003	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.420818	-39.474677	-0.296257
-0.004412	-0.162393	-4.227631	
0.14086	-20.420818	-39.474677	-0.296257
-0.004412	-0.052462	-5.345093	
0.28172	-20.420818	-39.474677	-0.296257
-0.004412	-0.193027	-7.063225	
0.42258	-20.420818	-39.474677	-0.296257
-0.004412	-0.481738	-15.741210	
0.56344	-20.420818	-39.474677	-0.296257
-0.004412	-0.783994	-38.835475	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.158458	80.392833	1.379418
0.004428	0.794883	103.808148	
0.14086	10.158458	80.392833	1.379418
0.004428	0.218849	98.008455	
0.28172	10.158458	80.392833	1.379418
0.004428	0.252908	94.824738	
0.42258	10.158458	80.392833	1.379418
0.004428	0.628525	106.478317	
0.56344	10.158458	80.392833	1.379418
0.004428	1.004199	125.834270	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2641

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.076695	-52.898836	-0.894836
-0.004210	-0.497319	-16.486379	
0.14086	-20.076695	-52.898836	-0.894836
-0.004210	-0.136125	-25.081260	
0.28172	-20.076695	-52.898836	-0.894836
-0.004210	-0.380185	-34.905882	
0.42258	-20.076695	-52.898836	-0.894836
-0.004210	-0.944771	-51.514056	
0.56344	-20.076695	-52.898836	-0.894836
-0.004210	-1.522401	-81.987528	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.807723	106.950148	1.786783
0.002995	1.009690	97.166890	
0.14086	15.807723	106.950148	1.786783
0.002995	0.262050	87.542194	
0.28172	15.807723	106.950148	1.786783
0.002995	0.375843	99.268458	
0.42258	15.807723	106.950148	1.786783
0.002995	0.935536	123.095613	
0.56344	15.807723	106.950148	1.786783
0.002995	1.495214	152.283130	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-24.919008	-76.313778	-1.333669
-0.003964	-0.742263	-25.916310	
0.14086	-24.919008	-76.313778	-1.333669
-0.003964	-0.192034	-28.918526	
0.28172	-24.919008	-76.313778	-1.333669
-0.003964	-0.500568	-55.408484	
0.42258	-24.919008	-76.313778	-1.333669
-0.003964	-1.192822	-85.121109	
0.56344	-24.919008	-76.313778	-1.333669
-0.003964	-1.989359	-130.015371	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.273223	106.947730	2.101737
0.003281	1.185990	88.822501	
0.14086	16.273223	106.947730	2.101737
0.003281	0.306143	74.179491	
0.28172	16.273223	106.947730	2.101737
0.003281	0.461592	83.735852	
0.42258	16.273223	106.947730	2.101737
0.003281	1.153614	103.919839	
0.56344	16.273223	106.947730	2.101737
0.003281	1.845037	128.535840	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-25.372141	-65.420432	-1.647737
-0.003321	-0.919013	-37.229347	
0.14086	-25.372141	-65.420432	-1.647737
-0.003321	-0.235280	-39.905624	
0.28172	-25.372141	-65.420432	-1.647737
-0.003321	-0.586883	-66.703427	
0.42258	-25.372141	-65.420432	-1.647737
-0.003321	-1.460635	-99.188162	
0.56344	-25.372141	-65.420432	-1.647737
-0.003321	-2.341454	-139.436241	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.389484	26.386444	0.985113
0.001198	0.555900	16.098103	
0.14086	2.389484	26.386444	0.985113
0.001198	0.142520	7.671898	
0.28172	2.389484	26.386444	0.985113
0.001198	0.223801	3.659616	
0.42258	2.389484	26.386444	0.985113
0.001198	0.561841	3.519892	
0.56344	2.389484	26.386444	0.985113
0.001198	0.899574	3.949757	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2642

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.625807	-3.697703	-0.804616
-6.78E-06	-0.449814	-23.617036	
0.14086	-9.625807	-3.697703	-0.804616
-6.78E-06	-0.111518	-23.934750	
0.28172	-9.625807	-3.697703	-0.804616
-6.78E-06	-0.270843	-27.471936	
0.42258	-9.625807	-3.697703	-0.804616
-6.78E-06	-0.683989	-34.447171	
0.56344	-9.625807	-3.697703	-0.804616
-6.78E-06	-1.097243	-41.965646	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.227341	49.961980	1.613319
0.002026	0.907376	22.210267	
0.14086	14.227341	49.961980	1.613319
0.002026	0.230776	10.489302	
0.28172	14.227341	49.961980	1.613319
0.002026	0.392997	6.861808	
0.42258	14.227341	49.961980	1.613319
0.002026	0.991789	9.057083	
0.56344	14.227341	49.961980	1.613319
0.002026	1.589938	12.856575	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.882107	-11.972272	-1.425303
-0.000131	-0.799969	-42.896534	
0.14086	-12.882107	-11.972272	-1.425303
-0.000131	-0.202905	-46.775130	
0.28172	-12.882107	-11.972272	-1.425303
-0.000131	-0.446972	-56.939034	
0.42258	-12.882107	-11.972272	-1.425303
-0.000131	-1.123141	-71.408804	
0.56344	-12.882107	-11.972272	-1.425303
-0.000131	-1.799853	-87.160547	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.409623	55.213627	2.018092
0.001648	1.134833	53.885148	
0.14086	11.409623	55.213627	2.018092
0.001648	0.288647	59.051244	
0.28172	11.409623	55.213627	2.018092
0.001648	0.434776	71.394542	
0.42258	11.409623	55.213627	2.018092
0.001648	1.089134	88.381495	
0.56344	11.409623	55.213627	2.018092
0.001648	1.742858	106.487471	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.598525	-48.167497	-1.557349
-7.83E-06	-0.867624	-38.049883	
0.14086	-18.598525	-48.167497	-1.557349
-7.83E-06	-0.214100	-46.870647	
0.28172	-18.598525	-48.167497	-1.557349
-7.83E-06	-0.559398	-60.591058	
0.42258	-18.598525	-48.167497	-1.557349
-7.83E-06	-1.405527	-77.682706	
0.56344	-18.598525	-48.167497	-1.557349
-7.83E-06	-2.251883	-95.307729	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.868421	107.086607	2.199323
0.003711	1.247059	102.137654	
0.14086	12.868421	107.086607	2.199323
0.003711	0.326094	84.266216	
0.28172	12.868421	107.086607	2.199323
0.003711	0.455022	83.777954	
0.42258	12.868421	107.086607	2.199323
0.003711	1.136491	99.121940	
0.56344	12.868421	107.086607	2.199323
0.003711	1.817379	120.086736	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2643

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.989024	-57.075888	-1.622445
-0.003170	-0.903716	-38.486846	
0.14086	-29.989024	-57.075888	-1.622445
-0.003170	-0.230916	-41.035322	
0.28172	-29.989024	-57.075888	-1.622445
-0.003170	-0.608670	-61.676397	
0.42258	-29.989024	-57.075888	-1.622445
-0.003170	-1.522795	-92.210372	
0.56344	-29.989024	-57.075888	-1.622445
-0.003170	-2.444594	-131.567776	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.003457	129.949926	1.256201
0.005888	0.718111	105.877128	
0.14086	17.003457	129.949926	1.256201
0.005888	0.192363	99.362549	
0.28172	17.003457	129.949926	1.256201
0.005888	0.226739	103.136297	
0.42258	17.003457	129.949926	1.256201
0.005888	0.562908	130.400096	
0.56344	17.003457	129.949926	1.256201
0.005888	0.899035	164.592840	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-21.652116	-84.026321	-0.801341
-0.007620	-0.445568	-41.694886	
0.14086	-21.652116	-84.026321	-0.801341
-0.007620	-0.116928	-50.150261	
0.28172	-21.652116	-84.026321	-0.801341
-0.007620	-0.349733	-72.625458	
0.42258	-21.652116	-84.026321	-0.801341
-0.007620	-0.863788	-100.003593	
0.56344	-21.652116	-84.026321	-0.801341
-0.007620	-1.390657	-145.517057	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.820570	119.180045	2.199323
0.005923	1.247059	109.836834	
0.14086	23.820570	119.180045	2.199323
0.005923	0.326094	98.008455	
0.28172	23.820570	119.180045	2.199323
0.005923	0.485803	104.707024	
0.42258	23.820570	119.180045	2.199323
0.005923	1.216888	131.576457	
0.56344	23.820570	119.180045	2.199323
0.005923	1.947731	166.469087	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-29.989024	-90.136404	-1.741662
-0.008165	-0.974790	-44.740071	
0.14086	-29.989024	-90.136404	-1.741662
-0.008165	-0.256746	-53.541839	
0.28172	-29.989024	-90.136404	-1.741662
-0.008165	-0.608670	-76.112218	
0.42258	-29.989024	-90.136404	-1.741662
-0.008165	-1.522795	-106.626843	
0.56344	-29.989024	-90.136404	-1.741662
-0.008165	-2.444594	-149.434568	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.820570	129.949926	2.199323

```
 0.005923    1.247059  109.836834
0.14086    23.820570  129.949926     2.199323
 0.005923    0.326094   99.362549
0.28172    23.820570  129.949926     2.199323
 0.005923    0.485803  104.707024
0.42258    23.820570  129.949926     2.199323
 0.005923    1.216888  131.576457
0.56344    23.820570  129.949926     2.199323
 0.005923    1.947731  166.469087
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING                LOAD              >
                                  2644

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -29.989024  -90.136404   -1.741662
-0.008165   -0.974790   -44.740071
0.14086   -29.989024  -90.136404   -1.741662
-0.008165   -0.256746   -53.541839
0.28172   -29.989024  -90.136404   -1.741662
-0.008165   -0.608670   -76.112218
0.42258   -29.989024  -90.136404   -1.741662
-0.008165   -1.522795  -106.626843
0.56344   -29.989024  -90.136404   -1.741662
-0.008165   -2.444594  -149.434568

COMB   DESIGN  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   23.820570  129.949926     2.199323
 0.005923    1.247059  109.836834
0.14086   23.820570  129.949926     2.199323
 0.005923    0.326094   99.362549
0.28172   23.820570  129.949926     2.199323
 0.005923    0.485803  104.707024
0.42258   23.820570  129.949926     2.199323
 0.005923    1.216888  131.576457
0.56344   23.820570  129.949926     2.199323
 0.005923    1.947731  166.469087

COMB   DESIGN  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -29.989024  -90.136404   -1.741662
-0.008165   -0.974790   -44.740071
0.14086   -29.989024  -90.136404   -1.741662
-0.008165   -0.256746   -53.541839
0.28172   -29.989024  -90.136404   -1.741662
-0.008165   -0.608670   -76.112218
0.42258   -29.989024  -90.136404   -1.741662
-0.008165   -1.522795  -106.626843
0.56344   -29.989024  -90.136404   -1.741662
-0.008165   -2.444594  -149.434568

ELEM     242  ================== LENGTH
=     2.976827

COMB DB-G1-1  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   21.341259    2.726654    0.432231
 0.000541    0.460929    5.702248
0.57753   21.341259    2.726654    0.432231
 0.000541    0.279739    4.846891
0.71835   21.341259    2.726654    0.432231
 0.000541    0.098583    4.042297
0.85918   21.341259    2.726654    0.432231
 0.000541    0.080773    3.343077
1.00000   21.341259    2.726654    0.432231
 0.000541    0.268086    2.950750

COMB DB-G1-1  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -5.759952   -47.035629   -0.446762
-0.001382   -0.481058   -90.771726
0.57753   -5.759952   -47.035629   -0.446762
-0.001382   -0.293772   -71.133064
0.71835   -5.759952   -47.035629   -0.446762
-0.001382   -0.106483   -51.578884
0.85918   -5.759952   -47.035629   -0.446762
-0.001382   -0.082938   -32.339443
1.00000   -5.759952   -47.035629   -0.446762
-0.001382   -0.264002   -13.614529

COMB DB-G1-2  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   24.005160   30.087645    0.792691
 0.006261    0.848160   50.762315
0.57753   24.005160   30.087645    0.792691
 0.006261    0.517502   40.576700
0.71835   24.005160   30.087645    0.792691
 0.006261    0.187018   38.917731
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING                LOAD              >
                                  2645

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.85918   24.005160   30.087645    0.792691
 0.006261    0.131714   58.585341
1.00000   24.005160   30.087645    0.792691
 0.006261    0.430314   84.470685

COMB DB-G1-2  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -35.974918  -120.281450   -0.713535
-0.005580   -0.766283  -134.112984
0.57753   -35.974918  -120.281450   -0.713535
-0.005580   -0.467168   -88.943289
0.71835   -35.974918  -120.281450   -0.713535
-0.005580   -0.168055   -60.779566
0.85918   -35.974918  -120.281450   -0.713535
-0.005580   -0.165803   -38.053384
1.00000   -35.974918  -120.281450   -0.713535
-0.005580   -0.498000   -20.377560

COMB DB-G1-3  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   23.050288   48.733829    1.076725
 0.004971    1.157842   78.650423
0.57753   23.050288   48.733829    1.076725
 0.004971    0.707583   59.522975
0.71835   23.050288   48.733829    1.076725
 0.004971    0.257427   49.645621
0.85918   23.050288   48.733829    1.076725
 0.004971    0.175282   55.280739
1.00000   23.050288   48.733829    1.076725
 0.004971    0.559219   67.369089

COMB DB-G1-3  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -31.588656  -101.050339   -0.926468
-0.004134   -0.994444  -124.172081
0.57753   -31.588656  -101.050339   -0.926468
-0.004134   -0.606063   -85.391204
0.71835   -31.588656  -101.050339   -0.926468
-0.004134   -0.217589   -58.273424
0.85918   -31.588656  -101.050339   -0.926468
-0.004134   -0.207879   -34.815222
1.00000   -31.588656  -101.050339   -0.926468
-0.004134   -0.659168   -19.033894

COMB DB-G1-4  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   34.584436   59.142694    1.190768
 0.004583    1.282875   97.130284
0.57753   34.584436   59.142694    1.190768
 0.004583    0.784620   73.642083
0.71835   34.584436   59.142694    1.190768
 0.004583    0.286449   57.994444
0.85918   34.584436   59.142694    1.190768
 0.004583    0.191655   55.292418
1.00000   34.584436   59.142694    1.190768
 0.004583    0.619709   58.800198

COMB DB-G1-4  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -31.121120   -85.320982   -1.029934
-0.003619   -1.107674  -105.503110
0.57753   -31.121120   -85.320982   -1.029934
-0.003619   -0.675918   -72.721609
0.71835   -31.121120   -85.320982   -1.029934
-0.003619   -0.244072   -52.113864
0.85918   -31.121120   -85.320982   -1.029934
-0.003619   -0.224275   -36.800169
1.00000   -31.121120   -85.320982   -1.029934
-0.003619   -0.723401   -28.261671

COMB DB-G2-1  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671    2.716830   21.976547    0.420646
 0.005000    0.453589   40.950339
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING                LOAD              >
                                  2646

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.57753    2.716830   21.976547    0.420646
 0.005000    0.278629   35.331783
0.71835    2.716830   21.976547    0.420646
 0.005000    0.103822   36.959695
0.85918    2.716830   21.976547    0.420646
 0.005000    0.067681   55.795919
1.00000    2.716830   21.976547    0.420646
 0.005000    0.198631   78.791655

COMB DB-G2-1  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -33.467776   -71.220384   -0.325696
-0.003419   -0.347626   -42.438409
0.57753   -33.467776   -71.220384   -0.325696
-0.003419   -0.211094   -17.352608
0.71835   -33.467776   -71.220384   -0.325696
-0.003419   -0.074567    6.452047
0.85918   -33.467776   -71.220384   -0.325696
-0.003419   -0.089640   -2.996094
1.00000   -33.467776   -71.220384   -0.325696
-0.003419   -0.265979   -4.994174

COMB DB-G2-2  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   15.836142   49.743617    0.811537
 0.005264    0.876841   81.481572
0.57753   15.836142   49.743617    0.811537
 0.005264    0.537911   62.347258
0.71835   15.836142   49.743617    0.811537
 0.005264    0.199070   53.876045
0.85918   15.836142   49.743617    0.811537
 0.005264    0.123199   63.068715
1.00000   15.836142   49.743617    0.811537
 0.005264    0.383386   74.876734

COMB DB-G2-2  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -31.663309   -63.910638   -0.632985
-0.003243   -0.678516   -41.144144
0.57753   -31.663309   -63.910638   -0.632985
-0.003243   -0.413162   -18.422252
0.71835   -31.663309   -63.910638   -0.632985
-0.003243   -0.147703   -10.314064
0.85918   -31.663309   -63.910638   -0.632985
-0.003243   -0.156915   -18.582621
1.00000   -31.663309   -63.910638   -0.632985
-0.003243   -0.497121   -14.604853

COMB DB-G2-3  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   24.098919   72.636267    1.078985
 0.004276    1.164283  132.172623
0.57753   24.098919   72.636267    1.078985
 0.004276    0.712865  102.993346
0.71835   24.098919   72.636267    1.078985
 0.004276    0.261521   82.305355
0.85918   24.098919   72.636267    1.078985
 0.004276    0.164306   74.433638
1.00000   24.098919   72.636267    1.078985
 0.004276    0.528729   68.986939

COMB DB-G2-3  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -40.855793   -76.061343   -0.877863
-0.003101   -0.943737   -85.736446
0.57753   -40.855793   -76.061343   -0.877863
-0.003101   -0.575733   -56.890638
0.71835   -40.855793   -76.061343   -0.877863
-0.003101   -0.207543   -38.741415
0.85918   -40.855793   -76.061343   -0.877863
-0.003101   -0.201955   -25.932761
1.00000   -40.855793   -76.061343   -0.877863
-0.003101   -0.654301   -20.551358
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING                LOAD              >
                                  2647

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   24.346428   75.340492    1.194341
 0.004013    1.290626  139.586440
0.57753   24.346428   75.340492    1.194341
 0.004013    0.790704  109.036381
0.71835   24.346428   75.340492    1.194341
 0.004013    0.290842   85.508633
0.85918   24.346428   75.340492    1.194341
 0.004013    0.186806   72.814517
1.00000   24.346428   75.340492    1.194341
 0.004013    0.609731   62.071953

COMB DB-G2-4  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -39.891725   -64.466737   -1.015911
-0.002825   -1.094086   -73.629733
0.57753   -39.891725   -64.466737   -1.015911
-0.002825   -0.668209   -49.371845
0.71835   -39.891725   -64.466737   -1.015911
-0.002825   -0.242171   -35.984525
0.85918   -39.891725   -64.466737   -1.015911
-0.002825   -0.219178   -26.709096
1.00000   -39.891725   -64.466737   -1.015911
-0.002825   -0.719882   -23.709718

COMB DB-G3-1  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671    2.754982   20.882640    0.453290
 0.000672    0.492577   43.670315
0.57753    2.754982   20.882640    0.453290
 0.000672    0.302560   34.950428
0.71835    2.754982   20.882640    0.453290
 0.000672    0.112542   26.258879
0.85918    2.754982   20.882640    0.453290
 0.000672    0.078877   17.616466
1.00000    2.754982   20.882640    0.453290
 0.000672    0.267168    9.157897

COMB DB-G3-1  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -10.392283   -2.058374   -0.449106
-0.000386   -0.485907    -6.802956
0.57753   -10.392283   -2.058374   -0.449106
-0.000386   -0.297639    -6.489248
0.71835   -10.392283   -2.058374   -0.449106
-0.000386   -0.109355    -6.364728
0.85918   -10.392283   -2.058374   -0.449106
-0.000386   -0.077533    -6.552263
1.00000   -10.392283   -2.058374   -0.449106
-0.000386   -0.267542    -6.994889

COMB DB-G3-2  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   25.067006   45.881435    0.801313
 0.001380    0.869139   82.566480
0.57753   25.067006   45.881435    0.801313
 0.001380    0.533277   63.801975
0.71835   25.067006   45.881435    0.801313
 0.001380    0.197407   45.497886
0.85918   25.067006   45.881435    0.801313
 0.001380    0.129697   28.472936
1.00000   25.067006   45.881435    0.801313
 0.001380    0.436170   13.678611

COMB DB-G3-2  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -15.800708   -4.784048   -0.731471
-0.000633   -0.790805    -7.949185
0.57753   -15.800708   -4.784048   -0.731471
-0.000633   -0.484165    -7.902221
0.71835   -15.800708   -4.784048   -0.731471
-0.000633   -0.177464   -10.631225
0.85918   -15.800708   -4.784048   -0.731471
-0.000633   -0.139148   -16.846691
1.00000   -15.800708   -4.784048   -0.731471
-0.000633   -0.475083   -24.727535
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING                LOAD              >
                                  2648

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   14.661397   57.907337    1.080573
 0.001838    1.172216  102.974730
0.57753   14.661397   57.907337    1.080573
 0.001838    0.719317   79.024149
0.71835   14.661397   57.907337    1.080573
 0.001838    0.266427   59.484689
0.85918   14.661397   57.907337    1.080573
 0.001838    0.170137   42.738292
1.00000   14.661397   57.907337    1.080573
 0.001838    0.563635   28.386507

COMB DB-G3-3  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -24.437126  -20.989933   -0.939367
-0.000650   -1.011884   -24.698813
0.57753   -24.437126  -20.989933   -0.939367
-0.000650   -0.618092   -17.884458
0.71835   -24.437126  -20.989933   -0.939367
-0.000650   -0.224186   -13.425350
0.85918   -24.437126  -20.989933   -0.939367
-0.000650   -0.182613   -12.756019
1.00000   -24.437126  -20.989933   -0.939367
-0.000650   -0.640596   -17.325341

COMB DB-G3-4  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   16.844664   78.326108    1.198102
 0.004480    1.296577  149.347815
0.57753   16.844664   78.326108    1.198102
 0.004480    0.795216  117.714071
0.71835   16.844664   78.326108    1.198102
 0.004480    0.293919   93.791958
0.85918   16.844664   78.326108    1.198102
 0.004480    0.190044   82.331269
1.00000   16.844664   78.326108    1.198102
 0.004480    0.617666   72.802730

COMB DB-G3-4  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -46.475491   -59.732772   -1.028518
-0.002951   -1.107330   -57.883235
0.57753   -46.475491   -59.732772   -1.028518
-0.002951   -0.676167   -37.035718
0.71835   -46.475491   -59.732772   -1.028518
-0.002951   -0.244870   -26.493577
0.85918   -46.475491   -59.732772   -1.028518
-0.002951   -0.219396   -20.486500
1.00000   -46.475491   -59.732772   -1.028518
-0.002951   -0.721662   -20.879090

COMB DL-G1-1  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   44.136472    5.279209    0.853336
 0.000540    0.911705    8.983340
0.57753   44.136472    5.279209    0.853336
 0.000540    0.553946    7.642374
0.71835   44.136472    5.279209    0.853336
 0.000540    0.196450    6.339336
0.85918   44.136472    5.279209    0.853336
 0.000540    0.176322    5.145065
1.00000   44.136472    5.279209    0.853336
 0.000540    0.592585    4.126898

COMB DL-G1-1  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -7.859486   -78.301406   -0.993103
-0.001559   -1.072713  -160.528945
0.57753   -7.859486   -78.301406   -0.993103
-0.001559   -0.656416  -128.019982
0.71835   -7.859486   -78.301406   -0.993103
-0.001559   -0.240044   -95.537171
0.85918   -7.859486   -78.301406   -0.993103
-0.001559   -0.160648   -63.261884
1.00000   -7.859486   -78.301406   -0.993103
-0.001559   -0.518305   -31.312543
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING                LOAD              >
                                  2649

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   44.510713   32.501099    1.414997
 0.006070    1.512938   61.965667
0.57753   44.510713   32.501099    1.414997
 0.006070    0.922437   50.441171
0.71835   44.510713   32.501099    1.414997
 0.006070    0.332537   48.672864
0.85918   44.510713   32.501099    1.414997
 0.006070    0.281120   67.486244
1.00000   44.510713   32.501099    1.414997
 0.006070    0.886404   91.493832

COMB DL-G1-2  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -48.075630  -154.361440   -1.467421
-0.005286   -1.575852  -211.756030
0.57753   -48.075630  -154.361440   -1.467421
-0.005286   -0.961655  -148.040929
0.71835   -48.075630  -154.361440   -1.467421
-0.005286   -0.347556  -103.145726
0.85918   -48.075630  -154.361440   -1.467421
-0.005286   -0.281992   -66.628262
1.00000   -48.075630  -154.361440   -1.467421
-0.005286   -0.874522   -37.204621

COMB DL-G1-3  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   43.349841   62.588230    1.865876
 0.004938    2.006372  115.171342
0.57753   43.349841   62.588230    1.865876
 0.004938    1.226014   90.303300
0.71835   43.349841   62.588230    1.865876
 0.004938    0.446609   73.537260
0.85918   43.349841   62.588230    1.865876
 0.004938    0.355568   71.760745
1.00000   43.349841   62.588230    1.865876
 0.004938    1.152049   76.617450

COMB DL-G1-3  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -47.413787  -131.215506   -1.914811
-0.004077   -2.058568  -191.685466
0.57753   -47.413787  -131.215506   -1.914811
-0.004077   -1.256302  -137.407402
0.71835   -47.413787  -131.215506   -1.914811
-0.004077   -0.454084   -96.748501
0.85918   -47.413787  -131.215506   -1.914811
-0.004077   -0.351694   -61.540999
1.00000   -47.413787  -131.215506   -1.914811
-0.004077   -1.133198   -35.209441

COMB DL-G1-4  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   51.552956   85.967829    2.115484
 0.004548    2.278444  148.791276
0.57753   51.552956   85.967829    2.115484
 0.004548    1.393164  114.235924
0.71835   51.552956   85.967829    2.115484
 0.004548    0.508705   87.137129
0.85918   51.552956   85.967829    2.115484
 0.004548    0.400113   73.623604
1.00000   51.552956   85.967829    2.115484
 0.004548    1.310985   67.496829

COMB DL-G1-4  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -46.866690  -110.559096   -2.186522
-0.003542   -2.354852  -162.254915
0.57753   -46.866690  -110.559096   -2.186522
-0.003542   -1.438568  -116.866867
0.71835   -46.866690  -110.559096   -2.186522
-0.003542   -0.522039   -84.507660
0.85918   -46.866690  -110.559096   -2.186522
-0.003542   -0.391656   -58.055506
1.00000   -46.866690  -110.559096   -2.186522
-0.003542   -1.277890   -41.141535
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                                Page
<              MOVING                LOAD              >
                                  2650

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671    3.891343   26.000591    0.609934
 0.004084    0.658338   56.027511
0.57753    3.891343   26.000591    0.609934
 0.004084    0.404714   47.452644
0.71835    3.891343   26.000591    0.609934
 0.004084    0.151457   45.923291
0.85918    3.891343   26.000591    0.609934
 0.004084    0.109397   59.494340
1.00000    3.891343   26.000591    0.609934
 0.004084    0.321230   76.778157

COMB DL-G2-1  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -46.455159   -64.105413   -0.521887
-0.002553   -0.554850   -46.982260
0.57753   -46.455159   -64.105413   -0.521887
-0.002553   -0.336690   -20.983857
0.71835   -46.455159   -64.105413   -0.521887
-0.002553   -0.118677    -8.313965
0.85918   -46.455159   -64.105413   -0.521887
-0.002553   -0.120401    -3.854916
1.00000   -46.455159   -64.105413   -0.521887
-0.002553   -0.375564    -6.530113

COMB DL-G2-2  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   17.963526   72.893514    1.296551
 0.004453    1.401502  129.435865
0.57753   17.963526   72.893514    1.296551
 0.004453    0.860148  100.484411
0.71835   17.963526   72.893514    1.296551
 0.004453    0.319182   79.970900
0.85918   17.963526   72.893514    1.296551
 0.004453    0.235357   74.548129
1.00000   17.963526   72.893514    1.296551
 0.004453    0.749112   74.580925

COMB DL-G2-2  ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671   -45.569992   -57.813718   -1.242283
-0.002486   -1.333387   -45.025801
0.57753   -45.569992   -57.813718   -1.242283
-0.002486   -0.812655   -21.903531
0.71835   -45.569992   -57.813718   -1.242283
-0.002486   -0.292607   -12.303660
0.85918   -45.569992   -57.813718   -1.242283
-0.002486   -0.240885    -9.150032
1.00000   -45.569992   -57.813718   -1.242283
-0.002486   -0.783893   -16.723621

COMB DL-G2-3  ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671   31.535150   89.989508    1.815014
```

```
 0.003469     1.959709   169.653478
 0.57753     31.535150    89.989508     1.815014
 0.003469     1.199987   133.150891
 0.71835     31.535150    89.989508     1.815014
 0.003469     0.447127   102.722906
 0.85918     31.535150    89.989508     1.815014
 0.003469     0.332613    82.741098
 1.00000     31.535150    89.989508     1.815014
 0.003469     1.082043    68.210049

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -55.156710   -84.704134    -1.798616
-0.002500    -1.933199  -117.202529
 0.57753   -55.156710   -84.704134    -1.798616
-0.002500    -1.179258   -82.718078
 0.71835   -55.156710   -84.704134    -1.798616
-0.002500    -0.425759   -57.251302
 0.85918   -55.156710   -84.704134    -1.798616
-0.002500    -0.330047   -36.674894
 1.00000   -55.156710   -84.704134    -1.798616
-0.002500    -1.090440   -26.018283
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2651

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671    31.532859   101.130911     2.117550
 0.003353    2.288842   188.374457
 0.57753    31.532859   101.130911     2.117550
 0.003353    1.402171   147.399322
 0.71835    31.532859   101.130911     2.117550
 0.003353    0.516089   111.753874
 0.85918    31.532859   101.130911     2.117550
 0.003353    0.385733    85.017273
 1.00000    31.532859   101.130911     2.117550
 0.003353    1.270380    63.129663

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -55.667939   -71.990351    -2.118464
-0.002304    -2.280718  -100.715423
 0.57753   -55.667939   -71.990351    -2.118464
-0.002304    -1.392579   -72.150700
 0.71835   -55.667939   -71.990351    -2.118464
-0.002304    -0.504552   -51.838401
 0.85918   -55.667939   -71.990351    -2.118464
-0.002304    -0.380094   -35.632267
 1.00000   -55.667939   -71.990351    -2.118464
-0.002304    -1.267624   -27.853796

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671     3.996310    32.695214     0.948142
 0.000677    1.029150    66.599242
 0.57753     3.996310    32.695214     0.948142
 0.000677    0.631687    53.085667
 0.71835     3.996310    32.695214     0.948142
 0.000677    0.234030    39.666856
 0.85918     3.996310    32.695214     0.948142
 0.000677    0.166722    26.464594
 1.00000     3.996310    32.695214     0.948142
 0.000677    0.564159    13.741898

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -20.822460    -3.207562    -0.946765
-0.000363    -1.022642    -8.748666
 0.57753   -20.822460    -3.207562    -0.946765
-0.000363    -0.625536    -7.856929
 0.71835   -20.822460    -3.207562    -0.946765
-0.000363    -0.228254    -7.119044
 0.85918   -20.822460    -3.207562    -0.946765
-0.000363    -0.163131    -6.661043
 1.00000   -20.822460    -3.207562    -0.946765
-0.000363    -0.560854    -6.743856

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671    28.000219    78.499683     1.591869
 0.001317    1.746555   134.931786
 0.57753    28.000219    78.499683     1.591869
 0.001317    1.057554   102.839815
 0.71835    28.000219    78.499683     1.591869
 0.001317    0.390201    71.650299
 0.85918    28.000219    78.499683     1.591869
 0.001317    0.286335    43.038041
 1.00000    28.000219    78.499683     1.591869
 0.001317    0.970143    18.341817

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -27.538863    -4.911065    -1.630129
-0.000530    -1.762121   -11.312822
 0.57753   -27.538863    -4.911065    -1.630129
-0.000530    -1.078595   -10.671996
 0.71835   -27.538863    -4.911065    -1.630129
-0.000530    -0.394621   -11.704275
 0.85918   -27.538863    -4.911065    -1.630129
-0.000530    -0.277882   -15.916720
 1.00000   -27.538863    -4.911065    -1.630129
-0.000530    -0.945199   -24.626010
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2652

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671    19.793497    91.198729     1.952620
 0.001483    2.119108   167.524348
 0.57753    19.793497    91.198729     1.952620
 0.001483    1.300741   130.061675
 0.71835    19.793497    91.198729     1.952620
 0.001483    0.482145    94.799257
 0.85918    19.793497    91.198729     1.952620
 0.001483    0.345590    61.586762
 1.00000    19.793497    91.198729     1.952620
 0.001483    1.159662    33.370404

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -43.667616   -17.192467    -1.941355
-0.000404    -2.093183   -26.261822
 0.57753   -43.667616   -17.192467    -1.941355
-0.000404    -1.278959   -20.465493
 0.71835   -43.667616   -17.192467    -1.941355
-0.000404    -0.464566   -15.642336
 0.85918   -43.667616   -17.192467    -1.941355
-0.000404    -0.337083   -13.190135
 1.00000   -43.667616   -17.192467    -1.941355
-0.000404    -1.155926   -18.612295

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671    23.536953   104.359533     2.140441
 0.003527    2.317188   201.658382
 0.57753    23.536953   104.359533     2.140441
 0.003527    1.421231   159.293509
 0.71835    23.536953   104.359533     2.140441
 0.003527    0.525505   122.563352
 0.85918    23.536953   104.359533     2.140441
 0.003527    0.383834    95.380978
 1.00000    23.536953   104.359533     2.140441
 0.003527    1.260283    73.376671

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -66.406701   -59.172473    -2.100100
-0.002150    -2.259902   -73.269364
 0.57753   -66.406701   -59.172473    -2.100100
-0.002150    -1.379570   -50.064425
 0.71835   -66.406701   -59.172473    -2.100100
-0.002150    -0.499229   -35.121182
 0.85918   -66.406701   -59.172473    -2.100100
-0.002150    -0.381273   -24.929894
 1.00000   -66.406701   -59.172473    -2.100100
-0.002150    -1.278392   -23.851812

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671    34.584436    78.326108     1.198102
 0.006261    1.296577   149.347815
 0.57753    34.584436    78.326108     1.198102
 0.006261    0.795216   117.714071
 0.71835    34.584436    78.326108     1.198102
 0.006261    0.293919    93.791958
 0.85918    34.584436    78.326108     1.198102
 0.006261    0.191655    82.331269
 1.00000    34.584436    78.326108     1.198102
 0.006261    0.619709    84.470685

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -46.475491   -120.281450    -1.029934
-0.005580    -1.107674   -134.112984
 0.57753   -46.475491   -120.281450    -1.029934
-0.005580    -0.676167    -88.943289
 0.71835   -46.475491   -120.281450    -1.029934
-0.005580    -0.244870    -60.779556
 0.85918   -46.475491   -120.281450    -1.029934
-0.005580    -0.224275    -38.053384
 1.00000   -46.475491   -120.281450    -1.029934
-0.005580    -0.723401    -28.261671
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2653

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671    51.552956   104.359533     2.140441
 0.006070    2.317188   201.658382
 0.57753    51.552956   104.359533     2.140441
 0.006070    1.421231   159.293509
 0.71835    51.552956   104.359533     2.140441
 0.006070    0.525505   122.563352
 0.85918    51.552956   104.359533     2.140441
 0.006070    0.400113    95.380978
 1.00000    51.552956   104.359533     2.140441
 0.006070    1.310985    91.493832

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -66.406701  -154.361440    -2.186522
-0.005286    -2.354852  -211.756030
 0.57753   -66.406701  -154.361440    -2.186522
-0.005286    -1.438588  -148.040929
 0.71835   -66.406701  -154.361440    -2.186522
-0.005286    -0.522039  -103.145726
 0.85918   -66.406701  -154.361440    -2.186522
-0.005286    -0.391656   -66.628262
 1.00000   -66.406701  -154.361440    -2.186522
-0.005286    -1.278392   -41.141535

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671    51.552956   104.359533     2.140441
 0.006261    2.317188   201.658382
 0.57753    51.552956   104.359533     2.140441
 0.006261    1.421231   159.293509
 0.71835    51.552956   104.359533     2.140441
 0.006261    0.525505   122.563352
 0.85918    51.552956   104.359533     2.140441
 0.006261    0.400113    95.380978
 1.00000    51.552956   104.359533     2.140441
 0.006261    1.310985    91.493832

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -66.406701  -154.361440    -2.186522
-0.005580    -2.354852  -211.756030
 0.57753   -66.406701  -154.361440    -2.186522
-0.005580    -1.438588  -148.040929
 0.71835   -66.406701  -154.361440    -2.186522
-0.005580    -0.522039  -103.145726
 0.85918   -66.406701  -154.361440    -2.186522
-0.005580    -0.391656   -66.628262
 1.00000   -66.406701  -154.361440    -2.186522
-0.005580    -1.278392   -41.141535

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.43671    51.552956   104.359533     2.140441
 0.006261    2.317188   201.658382
 0.57753    51.552956   104.359533     2.140441
 0.006261    1.421231   159.293509
 0.71835    51.552956   104.359533     2.140441
 0.006261    0.525505   122.563352
 0.85918    51.552956   104.359533     2.140441
 0.006261    0.400113    95.380978
 1.00000    51.552956   104.359533     2.140441
 0.006261    1.310985    91.493832

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.43671   -66.406701  -154.361440    -2.186522
-0.005580    -2.354852  -211.756030
 0.57753   -66.406701  -154.361440    -2.186522
-0.005580    -1.438588  -148.040929
 0.71835   -66.406701  -154.361440    -2.186522
-0.005580    -0.522039  -103.145726
 0.85918   -66.406701  -154.361440    -2.186522
-0.005580    -0.391656   -66.628262
 1.00000   -66.406701  -154.361440    -2.186522
-0.005580    -1.278392   -41.141535
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2654

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       243 ================== LENGTH
=     2.977883

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    21.377221    2.776428     0.394892
 0.000567    0.235880    2.949074
 0.14086    21.377221    2.776428     0.394892
 0.000567    0.070235    8.544863
 0.28172    21.377221    2.776428     0.394892
 0.000567    0.108348   27.770193
 0.42259    21.377221    2.776428     0.394892
 0.000567    0.302188   47.327925
 0.56345    21.377221    2.776428     0.394892
 0.000567    0.495977   66.922448

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    -5.838436  -46.898382    -0.462056
-0.001265    -0.272845  -13.597829
 0.14086    -5.838436  -46.898382    -0.462056
-0.001265    -0.085469  -12.369105
 0.28172    -5.838436  -46.898382    -0.462056
-0.001265    -0.095441  -13.002752
 0.42259    -5.838436  -46.898382    -0.462056
-0.001265    -0.261067  -13.838683
 0.56345    -5.838436  -46.898382    -0.462056
-0.001265    -0.426711  -14.988319

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    24.059038   86.940250     0.790074
 0.004643    0.501968   84.690931
 0.14086    24.059038   86.940250     0.790074
 0.004643    0.171059   66.246359
 0.28172    24.059038   86.940250     0.790074
 0.004643    0.167264   61.318605
 0.42259    24.059038   86.940250     0.790074
 0.004643    0.459860   81.318158
 0.56345    24.059038   86.940250     0.790074
 0.004643    0.752377  107.485888

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -38.695048  -68.831620    -0.697399
-0.007085    -0.417905  -20.397425
 0.14086   -38.695048  -68.831620    -0.697399
-0.007085    -0.125441  -12.852327
 0.28172   -38.695048  -68.831620    -0.697399
-0.007085    -0.183355  -18.263448
 0.42259   -38.695048  -68.831620    -0.697399
-0.007085    -0.494638  -38.809445
 0.56345   -38.695048  -68.831620    -0.697399
-0.007085    -0.825416  -74.878678

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    23.069398   87.289330     1.072399
 0.003542    0.661470   67.524745
 0.14086    23.069398   87.289330     1.072399
 0.003542    0.211864   56.062267
 0.28172    23.069398   87.289330     1.072399
 0.003542    0.211304   59.789930
 0.42259    23.069398   87.289330     1.072399
 0.003542    0.576495   81.275572
 0.56345    23.069398   87.289330     1.072399
 0.003542    0.941532  107.043597

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -33.550543  -66.206267    -0.870282
-0.005119    -0.518814  -19.036918
 0.14086   -33.550543  -66.206267    -0.870282
-0.005119    -0.153740  -22.733314
 0.28172   -33.550543  -66.206267    -0.870282
-0.005119    -0.253463  -38.178370
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2655

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
 0.42259   -33.550543  -66.206267    -0.870282
-0.005119    -0.689658  -63.958554
 0.56345   -33.550543  -66.206267    -0.870282
-0.005119    -1.139066  -100.303355

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    34.579241   91.348718     1.197269
 0.003562    0.733086   58.934460
 0.14086    34.579241   91.348718     1.197269
 0.003562    0.231093   47.271640
 0.28172    34.579241   91.348718     1.197269
 0.003562    0.240011   50.882234
 0.42259    34.579241   91.348718     1.197269
 0.003562    0.657272   69.394805
 0.56345    34.579241   91.348718     1.197269
 0.003562    1.074399   91.389396

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -32.801262  -56.418604    -0.994454
-0.004480    -0.524829  -28.263112
 0.14086   -32.801262  -56.418604    -0.994454
-0.004480    -0.178788  -36.341378
 0.28172   -32.801262  -56.418604    -0.994454
-0.004480    -0.284004  -54.217196
 0.42259   -32.801262  -56.418604    -0.994454
-0.004480    -0.774884  -80.835419
 0.56345   -32.801262  -56.418604    -0.994454
-0.004480    -1.276746  -118.196990

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    2.713271    69.668765     0.504731
 0.003329    0.327723    78.975507
 0.14086    2.713271    69.668765     0.504731
 0.003329    0.116645    63.167813
 0.28172    2.713271    69.668765     0.504731
 0.003329    0.095495    47.502474
 0.42259    2.713271    69.668765     0.504731
 0.003329    0.173751    52.112222
 0.56345    2.713271    69.668765     0.504731
 0.003329    0.281993    61.718133

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -35.679602  -28.529456    -0.258106
-0.004645    -0.151178   -5.022684
 0.14086   -35.679602  -28.529456    -0.258106
-0.004645    -0.042992   -4.770490
 0.28172   -35.679602  -28.529456    -0.258106
-0.004645    -0.114588   -8.146950
 0.42259   -35.679602  -28.529456    -0.258106
-0.004645    -0.309463  -24.164536
 0.56345   -35.679602  -28.529456    -0.258106
-0.004645    -0.520664  -53.124887

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    15.790236   94.441833     0.893830
 0.003654    0.558016   75.058391
 0.14086    15.790236   94.441833     0.893830
 0.003654    0.183404   54.673311

 0.28172    15.790236   94.441833     0.893830
 0.003654    0.135786   38.259295
 0.42259    15.790236   94.441833     0.893830
 0.003654    0.364845   41.535720
 0.56345    15.790236   94.441833     0.893830
 0.003654    0.593851   49.479891

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -33.838789  -24.116120    -0.545990
-0.004391    -0.323245   -14.627763
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2656

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
 0.14086   -33.838789  -24.116120    -0.545990
-0.004391    -0.095656   -27.365946
 0.28172   -33.838789  -24.116120    -0.545990
-0.004391    -0.209301   -42.350361
 0.42259   -33.838789  -24.116120    -0.545990
-0.004391    -0.568585   -69.202672
 0.56345   -33.838789  -24.116120    -0.545990
-0.004391    -0.943036  -108.505441

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    24.095494   103.763724     1.088999
 0.003096    0.664428    69.113125
 0.14086    24.095494   103.763724     1.088999
 0.003096    0.207877    50.551378
 0.28172    24.095494   103.763724     1.088999
 0.003096    0.198897    50.163803
 0.42259    24.095494   103.763724     1.088999
 0.003096    0.540040    64.956825
 0.56345    24.095494   103.763724     1.088999
 0.003096    0.881064    83.378299

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -42.405541   -48.015923    -0.813018
-0.004124    -0.483970   -20.551664
 0.14086   -42.405541   -48.015923    -0.813018
-0.004124    -0.144149   -25.776571
 0.28172   -42.405541   -48.015923    -0.813018
-0.004124    -0.261524   -50.389654
 0.42259   -42.405541   -48.015923    -0.813018
-0.004124    -0.707250   -84.642216
 0.56345   -42.405541   -48.015923    -0.813018
-0.004124    -1.163711  -127.931657

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    24.340597   101.370056     1.224171
 0.003221    0.744169    62.183570
 0.14086    24.340597   101.370056     1.224171
 0.003221    0.230853    42.238014
 0.28172    24.340597   101.370056     1.224171
 0.003221    0.235967    42.083612
 0.42259    24.340597   101.370056     1.224171
 0.003221    0.644292    54.776897
 0.56345    24.340597   101.370056     1.224171
 0.003221    1.052504    70.511465

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -41.241400   -40.967478    -0.973187
-0.003747    -0.580984   -23.710198
 0.14086   -41.241400   -40.967478    -0.973187
-0.003747    -0.173506   -29.503592
 0.28172   -41.241400   -40.967478    -0.973187
-0.003747    -0.293188   -51.562506
 0.42259   -41.241400   -40.967478    -0.973187
-0.003747    -0.797407   -83.838617
 0.56345   -41.241400   -40.967478    -0.973187
-0.003747    -1.310623  -126.153987

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    2.685236    20.914337     0.498544
 0.000954    0.301967    9.165628
 0.14086    2.685236    20.914337     0.498544
 0.000954    0.091336    4.365962
 0.28172    2.685236    20.914337     0.498544
 0.000954    0.110891    3.630245
 0.42259    2.685236    20.914337     0.498544
 0.000954    0.306992    3.803118
 0.56345    2.685236    20.914337     0.498544
 0.000954    0.503187    4.198229
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2657

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -10.471963   -2.008600    -0.467728
-0.000506    -0.281673   -6.995526
 0.14086   -10.471963   -2.008600    -0.467728
-0.000506    -0.085472   -7.779905
 0.28172   -10.471963   -2.008600    -0.467728
-0.000506    -0.117807   -9.167158
 0.42259   -10.471963   -2.008600    -0.467728
-0.000506    -0.326910   -17.888519
 0.56345   -10.471963   -2.008600    -0.467728
-0.000506    -0.536034   -26.642776

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    24.956735   48.097355     0.852589
 0.001776    0.512989   13.698348
 0.14086    24.956735   48.097355     0.852589
 0.001776    0.155382   3.662645
 0.28172    24.956735   48.097355     0.852589
 0.001776    0.179068   2.381760
 0.42259    24.956735   48.097355     0.852589
 0.001776    0.494583   3.328763
 0.56345    24.956735   48.097355     0.852589
 0.001776    0.810074   4.515942

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
 0.00000   -16.025374   -3.134408    -0.752483
-0.000825    -0.455472   -24.727641
 0.14086   -16.025374   -3.134408    -0.752483
-0.000825    -0.141971   -33.617369
 0.28172   -16.025374   -3.134408    -0.752483
-0.000825    -0.203000   -43.099558
 0.42259   -16.025374   -3.134408    -0.752483
-0.000825    -0.559994   -61.644814
 0.56345   -16.025374   -3.134408    -0.752483
-0.000825    -0.917610   -81.630006

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
 0.00000    14.544344   60.894779     1.158318
```

```
 0.001639    0.697254   28.412945
 0.14086    14.544344   60.894779    1.158318
 0.001639    0.211413   22.361934
 0.28172    14.544344   60.894779    1.158318
 0.001639    0.217334   26.596599
 0.42259    14.544344   60.894779    1.158318
 0.001639    0.593522   33.862731
 0.56345    14.544344   60.894779    1.158318
 0.001639    0.969634   41.458906

COMB DB-G3-3 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -24.758948  -18.743111   -0.896656
-0.000854   -0.535642  -17.318595
 0.14086   -24.758948  -18.743111   -0.896656
-0.000854   -0.160678  -31.916275
 0.28172   -24.758948  -18.743111   -0.896656
-0.000854   -0.275659  -47.243432
 0.42259   -24.758948  -18.743111   -0.896656
-0.000854   -0.760510  -71.076072
 0.56345   -24.758948  -18.743111   -0.896656
-0.000854   -1.246359  -96.523214

COMB DB-G3-4 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000    16.773188  109.154794    1.277340
 0.003619    0.780887   72.934292
 0.14086    16.773188  109.154794    1.277340
 0.003619    0.245324   46.036106
 0.28172    16.773188  109.154794    1.277340
 0.003619    0.236981   37.748091
 0.42259    16.773188  109.154794    1.277340
 0.003619    0.646484   45.906914
 0.56345    16.773188  109.154794    1.277340
 0.003619    1.056894   57.630372
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2658

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -48.061083  -31.933965   -0.976052
-0.004058   -0.582496  -20.887532
 0.14086   -48.061083  -31.933965   -0.976052
-0.004058   -0.174024  -28.084105
 0.28172   -48.061083  -31.933965   -0.976052
-0.004058   -0.302957  -46.820152
 0.42259   -48.061083  -31.933965   -0.976052
-0.004058   -0.827801  -83.178005
 0.56345   -48.061083  -31.933965   -0.976052
-0.004058   -1.363269 -128.748776

COMB DL-G1-1 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000    44.131671    5.284657    0.680887
 0.000589    0.397530    4.123538
 0.14086    44.131671    5.284657    0.680887
 0.000589    0.112459   10.335214
 0.28172    44.131671    5.284657    0.680887
 0.000589    0.246271   40.842215
 0.42259    44.131671    5.284657    0.680887
 0.000589    0.681975   72.368092
 0.56345    44.131671    5.284657    0.680887
 0.000589    1.117621  104.244734

COMB DL-G1-1 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000    -7.957770  -77.912322   -1.038828
-0.001374   -0.625526  -31.281376
 0.14086    -7.957770  -77.912322   -1.038828
-0.001374   -0.190045  -11.355246
 0.28172    -7.957770  -77.912322   -1.038828
-0.001374   -0.172873  -11.590678
 0.42259    -7.957770  -77.912322   -1.038828
-0.001374   -0.458339  -12.705432
 0.56345    -7.957770  -77.912322   -1.038828
-0.001374   -0.743850  -14.153564

COMB DL-G1-2 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   44.532427   89.328361    1.362170
 0.004345    0.338287   91.541817
 0.14086   44.532427   89.328361    1.362170
 0.004345    0.268209   71.375796
 0.28172   44.532427   89.328361    1.362170
 0.004345    0.339021   77.168806
 0.42259   44.532427   89.328361    1.362170
 0.004345    0.927515  108.358942
 0.56345   44.532427   89.328361    1.362170
 0.004345    1.515949  147.596975

COMB DL-G1-2 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -50.216835 -100.870252   -1.402849
-0.007232   -0.838096  -37.208822
 0.14086   -50.216835 -100.870252   -1.402849
-0.007232   -0.250306  -13.668398
 0.28172   -50.216835 -100.870252   -1.402849
-0.007232   -0.323498  -16.370150
 0.42259   -50.216835 -100.870252   -1.402849
-0.007232   -0.396686  -38.767399
 0.56345   -50.216835 -100.870252   -1.402849
-0.007232   -1.446978  -74.184977

COMB DL-G1-3 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   43.346833  102.928189    1.837159
 0.003440    1.115300   76.656358
 0.14086   43.346833  102.928189    1.837159
 0.003440    0.345447   60.986435
 0.28172   43.346833  102.928189    1.837159
 0.003440    0.442935   70.949881
 0.42259   43.346833  102.928189    1.837159
 0.003440    1.211738  101.428082
 0.56345   43.346833  102.928189    1.837159
 0.003440    1.980385  137.900936
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2659

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -48.995294  -93.355470   -1.831794
-0.005431   -1.092654  -35.189860
 0.14086   -48.995294  -93.355470   -1.831794
-0.005431   -0.324305  -26.380803
 0.28172   -48.995294  -93.355470   -1.831794
-0.005431   -0.440667  -42.079179
 0.42259   -48.995294  -93.355470   -1.831794
-0.005431   -1.196218  -73.947125
 0.56345   -48.995294  -93.355470   -1.831794
-0.005431   -1.967547 -115.321837

COMB DL-G1-4 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   51.484437  119.698712    2.101870
 0.003472    1.271376   67.536528
 0.14086   51.484437  119.698712    2.101870
 0.003472    0.390522   51.428707
 0.28172   51.484437  119.698712    2.101870
 0.003472    0.516731   60.299790
 0.42259   51.484437  119.698712    2.101870
 0.003472    1.420081   86.206543
 0.56345   51.484437  119.698712    2.101870
 0.003472    2.323067  117.104203

COMB DL-G1-4 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -48.178363  -79.149121   -2.152060
-0.004713   -1.287149  -41.122587
 0.14086   -48.178363  -79.149121   -2.152060
-0.004713   -0.384697  -44.586654
 0.28172   -48.178363  -79.149121   -2.152060
-0.004713   -0.504188  -71.174123
 0.42259   -48.178363  -79.149121   -2.152060
-0.004713   -1.374939 -111.189875
 0.56345   -48.178363  -79.149121   -2.152060
-0.004713   -2.255545 -159.125419

COMB DL-G2-1 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000    3.889130   65.911751    0.770565
 0.002572    0.488267   76.817042
 0.14086    3.889130   65.911751    0.770565
 0.002572    0.165451   60.922363
 0.28172    3.889130   65.911751    0.770565
 0.002572    0.103597   46.560300
 0.42259    3.889130   65.911751    0.770565
 0.002572    0.275294   49.565714
 0.56345    3.889130   65.911751    0.770565
 0.002572    0.447356   58.967428

COMB DL-G2-1 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -47.864838  -27.335330   -0.409835
-0.003912   -0.239926  -27.551840
 0.14086   -47.864838  -27.335330   -0.409835
-0.003912   -0.068553   -6.021072
 0.28172   -47.864838  -27.335330   -0.409835
-0.003912   -0.172724   -8.828155
 0.42259   -47.864838  -27.335330   -0.409835
-0.003912   -0.483481  -25.184791
 0.56345   -47.864838  -27.335330   -0.409835
-0.003912   -0.805750  -51.435312

COMB DL-G2-2 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   17.891269  111.353272    1.448900
 0.002958    0.891772   74.625368
 0.14086   17.891269  111.353272    1.448900
 0.002958    0.284796   52.782511
 0.28172   17.891269  111.353272    1.448900
 0.002958    0.260306   35.472764
 0.42259   17.891269  111.353272    1.448900
 0.002958    0.764522   37.249168
 0.56345   17.891269  111.353272    1.448900
 0.002958    1.248722   44.791101
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2660

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -46.969725  -22.578497   -1.153403
-0.003788   -0.685893  -16.729971
 0.14086   -46.969725  -22.578497   -1.153403
-0.003788   -0.202888   -34.127247
 0.28172   -46.969725  -22.578497   -1.153403
-0.003788   -0.338632   -55.452023
 0.42259   -46.969725  -22.578497   -1.153403
-0.003788   -0.934370   -92.026589
 0.56345   -46.969725  -22.578497   -1.153403
-0.003788   -1.540958  -137.452960

COMB DL-G2-3 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   31.491324  114.429379    1.868183
 0.002490    1.130179   68.238772
 0.14086   31.491324  114.429379    1.868183
 0.002490    0.347587   52.442548
 0.28172   31.491324  114.429379    1.868183
 0.002490    0.410914   57.711473
 0.42259   31.491324  114.429379    1.868183
 0.002490    1.121445   77.481314
 0.56345   31.491324  114.429379    1.868183
 0.002490    1.831977  101.384625

COMB DL-G2-3 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -56.116995  -61.883480   -1.693198
-0.003541   -1.008458  -25.994130
 0.14086   -56.116995  -61.883480   -1.693198
-0.003541   -0.298728  -32.495059
 0.28172   -56.116995  -61.883480   -1.693198
-0.003541   -0.446396  -61.301062
 0.42259   -56.116995  -61.883480   -1.693198
-0.003541   -0.722201  -101.694349
 0.56345   -56.116995  -61.883480   -1.693198
-0.003541   -2.004813 -148.163443

COMB DL-G2-4 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   31.444819  121.664086    2.193634
 0.002725    1.324661   63.161913
 0.14086   31.444819  121.664086    2.193634
 0.002725    0.405325   44.027234
 0.28172   31.444819  121.664086    2.193634
 0.002725    0.491109   48.770146
 0.42259   31.444819  121.664086    2.193634
 0.002725    1.347448   65.663304
 0.56345   31.444819  121.664086    2.193634
 0.002725    2.202834   86.078562

COMB DL-G2-4 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -56.469769  -52.824233   -2.038338
-0.003254   -1.216207  -27.833965
 0.14086   -56.469769  -52.824233   -2.038338
-0.003254   -0.360754  -37.722172
 0.28172   -56.469769  -52.824233   -2.038338
-0.003254   -0.523561  -70.892672
 0.42259   -56.469769  -52.824233   -2.038338
-0.003254   -1.437037 -114.429660
 0.56345   -56.469769  -52.824233   -2.038338
-0.003254   -2.356436 -164.156119

COMB DL-G3-1 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000    3.880679   32.687753    1.028287
 0.000999    0.619906   13.752997
 0.14086    3.880679   32.687753    1.028287
 0.000999    0.188262    4.445140
 0.28172    3.880679   32.687753    1.028287
 0.000999    0.224481    3.999026
 0.42259    3.880679   32.687753    1.028287
 0.000999    0.618613    4.856104
 0.56345    3.880679   32.687753    1.028287
 0.000999    1.012648    5.891170
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2661

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -20.784230   -3.194660   -0.938761
-0.000507   -0.561776   -6.744825
 0.14086   -20.784230   -3.194660   -0.938761
-0.000507   -0.167432   -8.790916
 0.28172   -20.784230   -3.194660   -0.938761
-0.000507   -0.242872  -18.317387
 0.42259   -20.784230   -3.194660   -0.938761
-0.000507   -0.674350  -31.710785
 0.56345   -20.784230   -3.194660   -0.938761
-0.000507   -1.105631  -45.235623

COMB DL-G3-2 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   27.813516   80.081331    1.674557
 0.001748    1.006983   18.362684
 0.14086   27.813516   80.081331    1.674557
 0.001748    0.304529    4.190538
 0.28172   27.813516   80.081331    1.674557
 0.001748    0.397420    3.468051
 0.42259   27.813516   80.081331    1.674557
 0.001748    1.100526    4.471964
 0.56345   27.813516   80.081331    1.674557
 0.001748    1.803150    5.859816

COMB DL-G3-2 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -27.567435   -3.829534   -1.674220
-0.000738   -1.005947   -28.621892
 0.14086   -27.567435   -3.829534   -1.674220
-0.000738   -0.304041   -42.454343
 0.28172   -27.567435   -3.829534   -1.674220
-0.000738   -0.398592   -71.212139
 0.42259   -27.567435   -3.829534   -1.674220
-0.000738   -1.100668  -104.160683
 0.56345   -27.567435   -3.829534   -1.674220
-0.000738   -1.803022  -137.530704

COMB DL-G3-3 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000    19.602614   91.448799    2.104071
 0.001470    1.265948   33.391009
 0.14086    19.602614   91.448799    2.104071
 0.001470    0.383730   22.376655
 0.28172    19.602614   91.448799    2.104071
 0.001470    0.455545   24.770984
 0.42259    19.602614   91.448799    2.104071
 0.001470    1.251817   31.028018
 0.56345    19.602614   91.448799    2.104071
 0.001470    2.047730   37.734313

COMB DL-G3-3 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -43.665586  -17.635049   -1.896278
-0.000559   -1.132221  -18.592767
 0.14086   -43.665586  -17.635049   -1.896278
-0.000559   -0.336681   -39.904773
 0.28172   -43.665586  -17.635049   -1.896278
-0.000559   -0.550187   -71.240957
 0.42259   -43.665586  -17.635049   -1.896278
-0.000559   -1.382747  -108.361407
 0.56345   -43.665586  -17.635049   -1.896278
-0.000559   -2.265121  -146.030462

COMB DL-G3-4 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   23.415713  126.615361    2.303764
 0.002913    1.396801   73.413912
 0.14086   23.415713  126.615361    2.303764
 0.002913    0.431014   47.504209
 0.28172   23.415713  126.615361    2.303764
 0.002913    0.482802   43.214410
 0.42259   23.415713  126.615361    2.303764
 0.002913    1.321741   53.856145
 0.56345   23.415713  126.615361    2.303764
 0.002913    2.160442   68.196420
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2662

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -67.242239  -38.474046   -1.998425
-0.003273   -1.191500   -23.841872
 0.14086   -67.242239  -38.474406   -1.998425
-0.003273   -0.353410   -35.253614
 0.28172   -67.242239  -38.474406   -1.998425
-0.003273   -0.544656   -66.848113
 0.42259   -67.242239  -38.474406   -1.998425
-0.003273   -1.503975  -114.930408
 0.56345   -67.242239  -38.474406   -1.998425
-0.003273   -2.469541  -164.717890

COMB       DB ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   34.579241  109.154794    1.277340
 0.004643    0.780887   84.690931
 0.14086   34.579241  109.154794    1.277340
 0.004643    0.245324   66.246359
 0.28172   34.579241  109.154794    1.277340
 0.004643    0.236981   61.315905
 0.42259   34.579241  109.154794    1.277340
 0.004643    0.657272   81.318138
 0.56345   34.579241  109.154794    1.277340
 0.004643    1.074399  107.485888

COMB       DB ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -48.061083  -68.831620   -0.994454
-0.007085   -0.594929  -28.263112
 0.14086   -48.061083  -68.831620   -0.994454
-0.007085   -0.176768  -36.341378
 0.28172   -48.061083  -68.831620   -0.994454
-0.007085   -0.302957  -54.217196
 0.42259   -48.061083  -68.831620   -0.994454
-0.007085   -0.827801  -84.642216
 0.56345   -48.061083  -68.831620   -0.994454
-0.007085   -1.363269 -128.748776

COMB       DL ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   51.484437  126.615361    2.303764
 0.004345    1.396801   91.541817
 0.14086   51.484437  126.615361    2.303764
 0.004345    0.431014   71.375796
 0.28172   51.484437  126.615361    2.303764
 0.004345    0.516731   77.168806
 0.42259   51.484437  126.615361    2.303764
 0.004345    1.420081  108.358942
 0.56345   51.484437  126.615361    2.303764
 0.004345    2.323067  147.596975

COMB       DL ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -67.242239 -100.870252   -2.152060
-0.007232   -1.287149  -41.122587
 0.14086   -67.242239 -100.870252   -2.152060
-0.007232   -0.384697  -44.586654
 0.28172   -67.242239 -100.870252   -2.152060
-0.007232   -0.544656  -71.240957
 0.42259   -67.242239 -100.870252   -2.152060
-0.007232   -1.503975 -114.429660
 0.56345   -67.242239 -100.870252   -2.152060
-0.007232   -2.469541 -164.717890

COMB       CAR ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   51.484437  126.615361    2.303764
 0.004643    1.396801   91.541817
 0.14086   51.484437  126.615361    2.303764
 0.004643    0.431014   71.375796
 0.28172   51.484437  126.615361    2.303764
 0.004643    0.516731   77.168806
 0.42259   51.484437  126.615361    2.303764
 0.004643    1.420081  108.358942
 0.56345   51.484437  126.615361    2.303764
 0.004643    2.323067  147.596975
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2663

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB       CAR ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -67.242239 -100.870252   -2.152060
-0.007232   -1.287149  -41.122587
 0.14086   -67.242239 -100.870252   -2.152060
-0.007232   -0.384697  -44.586654
 0.28172   -67.242239 -100.870252   -2.152060
-0.007232   -0.544656  -71.240957
 0.42259   -67.242239 -100.870252   -2.152060
-0.007232   -1.503975 -114.429660
 0.56345   -67.242239 -100.870252   -2.152060
-0.007232   -2.469541 -164.717890

COMB       DESIGN ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   51.484437  126.615361    2.303764
 0.004643    1.396801   91.541817
 0.14086   51.484437  126.615361    2.303764
 0.004643    0.431014   71.375796
 0.28172   51.484437  126.615361    2.303764
 0.004643    0.516731   77.168806
 0.42259   51.484437  126.615361    2.303764
 0.004643    1.420081  108.358942
 0.56345   51.484437  126.615361    2.303764
 0.004643    2.323067  147.596975

COMB       DESIGN ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.00000   -67.242239 -100.870252   -2.152060
-0.007232   -1.287149  -41.122587
 0.14086   -67.242239 -100.870252   -2.152060
-0.007232   -0.384697  -44.586654
 0.28172   -67.242239 -100.870252   -2.152060
-0.007232   -0.544656  -71.240957
 0.42259   -67.242239 -100.870252   -2.152060
-0.007232   -1.503975 -114.429660
 0.56345   -67.242239 -100.870252   -2.152060
-0.007232   -2.469541 -164.717890

ELEM      244 ================ LENGTH
=    2.977553

COMB DB-G1-1 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.43660   27.555665    3.181597    0.400682
 0.000981    0.433264    7.660477
 0.57745   27.555665    3.181597    0.400682
 0.000981    0.265227    6.419395
 0.71830   27.555665    3.181597    0.400682
 0.000981    0.097185    5.225924
 0.85915   27.555665    3.181597    0.400682
 0.000981    0.092615    4.117812
 1.00000   27.555665    3.181597    0.400682
 0.000981    0.309064    3.262813

COMB DB-G1-1 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.43660   -7.349085  -44.391317   -0.515931
-0.000978   -0.556438  -87.132289
 0.57745   -7.349085  -44.391317   -0.515931
-0.000978   -0.340062  -68.523102
 0.71830   -7.349085  -44.391317   -0.515931
-0.000978   -0.123651  -49.943200
 0.85915   -7.349085  -44.391317   -0.515931
-0.000978   -0.070856  -31.494577
 1.00000   -7.349085  -44.391317   -0.515931
-0.000978   -0.238909  -13.259869

COMB DB-G1-2 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.43660   30.378905   20.303274    0.715470
 0.005302    0.762624   38.393148
 0.57745   30.378905   20.303274    0.715470
 0.005302    0.466650   30.882445
 0.71830   30.378905   20.303274    0.715470
 0.005302    0.172972   28.426981
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                2664

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST         P          V2          V3
       T         M2          M3
 0.85915   30.378905   20.303274    0.715470
 0.005302    0.154600   50.535699
 1.00000   30.378905   20.303274    0.715470
 0.005302    0.492215   75.149637

COMB DB-G1-2 ---------- MIN

REL DIST         P          V2          V3
       T         M2          M3
 0.43660  -42.501959 -115.873042   -0.823622
-0.006594   -0.889454 -135.981765
 0.57745  -42.501959 -115.873042   -0.823622
-0.006594   -0.544037  -89.666885
 0.71830  -42.501959 -115.873042   -0.823622
-0.006594   -0.198624  -57.364777
 0.85915  -42.501959 -115.873042   -0.823622
-0.006594   -0.143817  -35.119666
 1.00000  -42.501959 -115.873042   -0.823622
-0.006594   -0.443905  -18.444644

COMB DB-G1-3 ---------- MAX

REL DIST         P          V2          V3
       T         M2          M3
 0.43660   29.101852   37.991933    0.962802
 0.004182    1.033344   71.881901
 0.57745   29.101852   37.991933    0.962802
 0.004182    0.632338   56.625679
```

0.71830 29.101852 37.991933 0.962802
0.004182 0.232873 44.770693
0.85915 29.101852 37.991933 0.962802
0.004182 0.193044 49.592294
1.00000 29.101852 37.991933 0.962802
0.004182 0.631323 55.089376

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -38.089209 -85.352732 -1.057565
-0.005067 -1.142798 -110.779606
0.57745 -38.089209 -85.352732 -1.057565
-0.005067 -0.699268 -76.469308
0.71830 -38.089209 -85.352732 -1.057565
-0.005067 -0.255728 -51.634787
0.85915 -38.089209 -85.352732 -1.057565
-0.005067 -0.182196 -32.911712
1.00000 -38.089209 -85.352732 -1.057565
-0.005067 -0.586089 -16.762993

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 43.285816 52.294992 1.066217
0.003808 1.146639 90.168136
0.57745 43.285816 52.294992 1.066217
0.003808 0.701788 69.160143
0.71830 43.285816 52.294992 1.066217
0.003808 0.258209 51.919622
0.85915 43.285816 52.294992 1.066217
0.003808 0.208251 49.114699
1.00000 43.285816 52.294992 1.066217
0.003808 0.686010 47.737930

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -37.821505 -72.229733 -1.149518
-0.004545 -1.242368 -94.599254
0.57745 -37.821505 -72.229733 -1.149518
-0.004545 -0.760274 -65.542235
0.71830 -37.821505 -72.229733 -1.149518
-0.004545 -0.278165 -44.351152
0.85915 -37.821505 -72.229733 -1.149518
-0.004545 -0.198286 -28.554043
1.00000 -37.821505 -72.229733 -1.149518
-0.004545 -0.645551 -22.724307

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 3.429452 22.179134 0.401839
0.003704 0.424922 42.914605
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2665

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57745 3.429452 22.179134 0.401839
0.003704 0.259815 34.347739
0.71830 3.429452 22.179134 0.401839
0.003704 0.096636 29.943182
0.85915 3.429452 22.179134 0.401839
0.003704 0.067556 46.064128
1.00000 3.429452 22.179134 0.401839
0.003704 0.206570 64.957817

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -39.392316 -63.738387 -0.347183
-0.004780 -0.375847 -42.994790
0.57745 -39.392316 -63.738387 -0.347183
-0.004780 -0.230243 -18.131372
0.71830 -39.392316 -63.738387 -0.347183
-0.004780 -0.084632 -5.735527
0.85915 -39.392316 -63.738387 -0.347183
-0.004780 -0.085913 -2.300673
1.00000 -39.392316 -63.738387 -0.347183
-0.004780 -0.254445 -4.546773

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 19.791222 53.553119 0.743425
0.003817 0.179888 89.710943
0.57745 19.791222 53.553119 0.743425
0.003817 0.486386 68.418733
0.71830 19.791222 53.553119 0.743425
0.003817 0.179569 52.145588
0.85915 19.791222 53.553119 0.743425
0.003817 0.128679 55.536364
1.00000 19.791222 53.553119 0.743425
0.003817 0.415065 60.278850

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -37.832474 -48.997578 -0.697388
-0.004824 -0.754841 -31.320098
0.57745 -37.832474 -48.997578 -0.697388
-0.004824 -0.462365 -12.472894
0.71830 -37.832474 -48.997578 -0.697388
-0.004824 -0.169873 -4.447451
0.85915 -37.832474 -48.997578 -0.697388
-0.004824 -0.141443 -3.803928
1.00000 -37.832474 -48.997578 -0.697388
-0.004824 -0.457048 -11.881135

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 29.849565 62.181799 0.930513
0.003413 1.000206 112.961006
0.57745 29.849565 62.181799 0.930513
0.003413 0.612202 87.829311
0.71830 29.849565 62.181799 0.930513
0.003413 0.225547 66.573842
0.85915 29.849565 62.181799 0.930513
0.003413 0.181348 59.363614
1.00000 29.849565 62.181799 0.930513
0.003413 0.597432 53.514161

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -50.543627 -60.112769 -1.002312
-0.004110 -1.084001 -71.082847
0.57745 -50.543627 -60.112769 -1.002312
-0.004110 -0.663643 -47.127819
0.71830 -50.543627 -60.112769 -1.002312
-0.004110 -0.243227 -30.835291
0.85915 -50.543627 -60.112769 -1.002312
-0.004110 -0.173931 -19.982837
1.00000 -50.543627 -60.112769 -1.002312
-0.004110 -0.564229 -16.777438
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2666

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 29.967281 64.046299 1.049277
0.003191 1.129705 117.578303
0.57745 29.967281 64.046299 1.049277
0.003191 0.691539 91.473910
0.71830 29.967281 64.046299 1.049277
0.003191 0.254504 68.435474
0.85915 29.967281 64.046299 1.049277
0.003191 0.200214 57.107364
1.00000 29.967281 64.046299 1.049277
0.003191 0.663137 47.242681

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -49.478818 -51.781740 -1.112246
-0.003789 -1.202714 -62.254820
0.57745 -49.478818 -51.781740 -1.112246
-0.003789 -0.736248 -41.591238
0.71830 -49.478818 -51.781740 -1.112246
-0.003789 -0.269736 -27.347152
0.85915 -49.478818 -51.781740 -1.112246
-0.003789 -0.193305 -17.592857
1.00000 -49.478818 -51.781740 -1.112246
-0.003789 -0.633405 -16.334758

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 3.361303 17.692352 0.429695
0.000537 0.464732 33.767528
0.57745 3.361303 17.692352 0.429695
0.000537 0.284527 26.372575
0.71830 3.361303 17.692352 0.429695
0.000537 0.104325 19.028733
0.85915 3.361303 17.692352 0.429695
0.000537 0.078413 11.837618
1.00000 3.361303 17.692352 0.429695
0.000537 0.264352 4.736719

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -13.004166 -2.750764 -0.443274
-0.000574 -0.479264 -4.982482
0.57745 -13.004166 -2.750764 -0.443274
-0.000574 -0.293360 -3.870329
0.71830 -13.004166 -2.750764 -0.443274
-0.000574 -0.107440 -2.776641
0.85915 -13.004166 -2.750764 -0.443274
-0.000574 -0.075982 -1.729236
1.00000 -13.004166 -2.750764 -0.443274
-0.000574 -0.256111 -1.125300

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 31.111009 49.828260 0.737137
0.001040 0.796981 76.621112
0.57745 31.111009 49.828260 0.737137
0.001040 0.487965 56.390469
0.71830 31.111009 49.828260 0.737137
0.001040 0.179015 38.561940
0.85915 31.111009 49.828260 0.737137
0.001040 0.134212 22.911560
1.00000 31.111009 49.828260 0.737137
0.001040 0.452407 8.732417

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -19.823946 -5.628837 -0.758975
-0.001131 -0.820814 -8.150363
0.57745 -19.823946 -5.628837 -0.758975
-0.001131 -0.502509 -5.905267
0.71830 -19.823946 -5.628837 -0.758975
-0.001131 -0.184182 -4.111139
0.85915 -19.823946 -5.628837 -0.758975
-0.001131 -0.130655 -3.305403
1.00000 -19.823946 -5.628837 -0.758975
-0.001131 -0.439808 -13.901268
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2667

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 18.229245 57.322661 0.994020
0.001290 1.074079 101.343478
0.57745 18.229245 57.322661 0.994020
0.001290 0.657408 77.715818
0.71830 18.229245 57.322661 0.994020
0.001290 0.240844 55.393387
0.85915 18.229245 57.322661 0.994020
0.001290 0.173644 34.868997
1.00000 18.229245 57.322661 0.994020
0.001290 0.585634 15.143135

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -30.760419 -6.819330 -0.982949
-0.001388 -1.063315 -10.237564
0.57745 -30.760419 -6.819330 -0.982949
-0.001388 -0.651078 -7.496060
0.71830 -30.760419 -6.819330 -0.982949
-0.001388 -0.238805 -5.468293
0.85915 -30.760419 -6.819330 -0.982949
-0.001388 -0.176773 -4.265518
1.00000 -30.760419 -6.819330 -0.982949
-0.001388 -0.593765 -8.207013

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 20.788689 71.059721 1.087098
0.003431 1.169309 131.789433
0.57745 20.788689 71.059721 1.087098
0.003431 0.715622 102.759490
0.71830 20.788689 71.059721 1.087098
0.003431 0.262204 77.729175
0.85915 20.788689 71.059721 1.087098
0.003431 0.198511 65.608666
1.00000 20.788689 71.059721 1.087098
0.003431 0.656146 55.268972

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -57.391756 -47.898766 -1.101113
-0.004162 -1.191029 -47.576123
0.57745 -57.391756 -47.898766 -1.101113
-0.004162 -0.729235 -28.720202
0.71830 -57.391756 -47.898766 -1.101113
-0.004162 -0.267398 -17.491943
0.85915 -57.391756 -47.898766 -1.101113
-0.004162 -0.201814 -11.482826
1.00000 -57.391756 -47.898766 -1.101113
-0.004162 -0.657801 -11.780655

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 56.304134 4.748715 0.702915
0.001090 0.760537 12.213004
0.57745 56.304134 4.748715 0.702915
0.001090 0.465743 10.266390
0.71830 56.304134 4.748715 0.702915
0.001090 0.170931 8.347262
0.85915 56.304134 4.748715 0.702915
0.001090 0.202089 6.494469
1.00000 56.304134 4.748715 0.702915
0.001090 0.673512 4.817282

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -10.039033 -95.561112 -1.124171
-0.001073 -1.212330 -188.174594
0.57745 -10.039033 -95.561112 -1.124171
-0.001073 -0.740876 -148.107389
0.71830 -10.039033 -95.561112 -1.124171
-0.001073 -0.269424 -108.056855
0.85915 -10.039033 -95.561112 -1.124171
-0.001073 -0.122767 -68.065246
1.00000 -10.039033 -95.561112 -1.124171
-0.001073 -0.417436 -28.326766
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2668

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 56.631168 26.698584 1.253906
0.004926 1.344438 54.313248
0.57745 56.631168 26.698584 1.253906
0.004926 0.823622 43.937528
0.71830 56.631168 26.698584 1.253906
0.004926 0.306462 39.823915
0.85915 56.631168 26.698584 1.253906
0.004926 0.301523 60.561988
1.00000 56.631168 26.698584 1.253906
0.004926 0.958922 83.422540

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -58.090319 -169.622087 -1.597148
-0.006528 -1.722590 -242.790412
0.57745 -58.090319 -169.622087 -1.597148
-0.006528 -1.053861 -172.269595
0.71830 -58.090319 -169.622087 -1.597148
-0.006528 -0.384998 -115.045133
0.85915 -58.090319 -169.622087 -1.597148
-0.006528 -0.239044 -71.097324
1.00000 -58.090319 -169.622087 -1.597148
-0.006528 -0.764359 -32.965286

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 54.733940 65.623485 1.666249
0.004003 1.794043 124.790171
0.57745 54.733940 65.623485 1.666249
0.004003 1.098959 97.818323
0.71830 54.733940 65.623485 1.666249
0.004003 0.406512 75.249462
0.85915 54.733940 65.623485 1.666249
0.004003 0.379460 70.174279
1.00000 54.733940 65.623485 1.666249
0.004003 1.240985 66.131658

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -58.519142 -136.640599 -2.075334
-0.005136 -2.240979 -208.089813
0.57745 -58.519142 -136.640599 -2.075334
-0.005136 -1.371199 -151.180663
0.71830 -58.519142 -136.640599 -2.075334
-0.005136 -0.501140 -103.688501
0.85915 -58.519142 -136.640599 -2.075334
-0.005136 -0.307231 -65.395317
1.00000 -58.519142 -136.640599 -2.075334
-0.005136 -1.005459 -30.369718

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 64.780829 96.959482 1.904319
0.003630 2.053230 170.867541
0.57745 64.780829 96.959482 1.904319
0.003630 1.257708 130.679335
0.71830 64.780829 96.959482 1.904319
0.003630 0.464361 94.392654
0.85915 64.780829 96.959482 1.904319
0.003630 0.427714 73.497650
1.00000 64.780829 96.959482 1.904319
0.003630 1.412139 58.105421

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -57.870521 -115.260758 -2.364039
-0.004600 -2.553602 -176.502084
0.57745 -57.870521 -115.260758 -2.364039
-0.004600 -1.562525 -128.502278
0.71830 -57.870521 -115.260758 -2.364039
-0.004600 -0.570981 -88.317604
0.85915 -57.870521 -115.260758 -2.364039
-0.004600 -0.346771 -56.162455
1.00000 -57.870521 -115.260758 -2.364039
-0.004600 -1.144919 -33.889361
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2669

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 4.890075 29.144113 0.613912
0.002788 0.654831 60.380607
0.57745 4.890075 29.144113 0.613912
0.002788 0.400819 48.779462
0.71830 4.890075 29.144113 0.613912
0.002788 0.146815 41.203200
0.85915 4.890075 29.144113 0.613912
0.002788 0.102077 52.175371
1.00000 4.890075 29.144113 0.613912
0.002788 0.310450 65.538177

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -57.159095 -59.041190 -0.517907
-0.003904 -0.559469 -47.330904
0.57745 -57.159095 -59.041190 -0.517907
-0.003904 -0.343039 -23.078768
0.71830 -57.159095 -59.041190 -0.517907
-0.003904 -0.126617 -8.196905
0.85915 -57.159095 -59.041190 -0.517907
-0.003904 -0.122568 -3.265395
1.00000 -57.159095 -59.041190 -0.517907
-0.003904 -0.379763 -5.151613

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 22.352847 90.577643 1.222894
0.002970 1.314900 159.252280
0.57745 22.352847 90.577643 1.222894
0.002970 0.805738 121.756160
0.71830 22.352847 90.577643 1.222894
0.002970 0.298636 88.739970
0.85915 22.352847 90.577643 1.222894
0.002970 0.240632 73.296800
1.00000 22.352847 90.577643 1.222894
0.002970 0.783029 62.086699

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -56.473754 -45.837160 -1.312462
-0.004042 -1.418870 -34.988544
0.57745 -56.473754 -45.837160 -1.312462
-0.004042 -0.868723 -16.150183
0.71830 -56.473754 -45.837160 -1.312462
-0.004042 -0.318712 -6.181100
0.85915 -56.473754 -45.837160 -1.312462
-0.004042 -0.229582 -5.348543
1.00000 -56.473754 -45.837160 -1.312462
-0.004042 -0.741994 -12.696914

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 39.504909 96.341728 1.648668
0.002693 1.777666 177.989361
0.57745 39.504909 96.341728 1.648668
0.002693 1.088813 137.951947
0.71830 39.504909 96.341728 1.648668
0.002693 0.401169 100.951048
0.85915 39.504909 96.341728 1.648668
0.002693 0.346581 75.759554
1.00000 39.504909 96.341728 1.648668
0.002693 1.149988 55.038540

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -69.094587 -79.047289 -1.927742
-0.003340 -2.083692 -115.170984
0.57745 -69.094587 -79.047289 -1.927742
-0.003340 -1.272535 -82.410799
0.71830 -69.094587 -79.047289 -1.927742
-0.003340 -0.467107 -55.452425
0.85915 -69.094587 -79.047289 -1.927742
-0.003340 -0.299753 -34.677639
1.00000 -69.094587 -79.047289 -1.927742
-0.003340 -0.990475 -21.619284
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2670

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 39.208900 109.269936 1.947872
0.002580 2.102472 200.433858
0.57745 39.208900 109.269936 1.947872
0.002580 1.287846 154.923415
0.71830 39.208900 109.269936 1.947872
0.002580 0.473991 111.904990
0.85915 39.208900 109.269936 1.947872
0.002580 0.399650 78.630842
1.00000 39.208900 109.269936 1.947872
0.002580 1.336738 50.442768

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -69.414360 -67.803815 -2.243074
-0.003153 -2.425474 -99.940506
0.57745 -69.414360 -67.803815 -2.243074
-0.003153 -1.484781 -71.776194
0.71830 -69.414360 -67.803815 -2.243074
-0.003153 -0.543874 -48.184176
0.85915 -69.414360 -67.803815 -2.243074
-0.003153 -0.350793 -30.334388
1.00000 -69.414360 -67.803815 -2.243074
-0.003153 -1.167292 -20.628406

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 4.872140 34.271284 0.921797
0.000522 0.997326 66.779161
0.57745 4.872140 34.271284 0.921797
0.000522 0.610698 52.423763
0.71830 4.872140 34.271284 0.921797
0.000522 0.223937 38.085246
0.85915 4.872140 34.271284 0.921797
0.000522 0.166116 23.987233
1.00000 4.872140 34.271284 0.921797
0.000522 0.568489 10.389758

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -25.606288 -4.361021 -0.957656
-0.000585 -1.037267 -7.265585
0.57745 -25.606288 -4.361021 -0.957656
-0.000585 -0.635490 -5.610936
0.71830 -25.606288 -4.361021 -0.957656
-0.000585 -0.233508 -3.978103
0.85915 -25.606288 -4.361021 -0.957656
-0.000585 -0.162243 -2.473420
1.00000 -25.606288 -4.361021 -0.957656
-0.000585 -0.548987 -1.614501

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 34.515011 96.434782 1.501852
0.000929 1.624859 160.364796
0.57745 34.515011 96.434782 1.501852
0.000929 0.995045 119.962354
0.71830 34.515011 96.434782 1.501852
0.000929 0.365353 80.469451
0.85915 34.515011 96.434782 1.501852
0.000929 0.300227 43.671304
1.00000 34.515011 96.434782 1.501852
0.000929 1.020929 13.921001

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -33.725751 -6.020919 -1.716419
-0.001048 -1.857159 -10.472209
0.57745 -33.725751 -6.020919 -1.716419
-0.001048 -1.137018 -8.001256
0.71830 -33.725751 -6.020919 -1.716419
-0.001048 -0.416315 -5.818377
0.85915 -33.725751 -6.020919 -1.716419
-0.001048 -0.264982 -4.740814
1.00000 -33.725751 -6.020919 -1.716419
-0.001048 -0.894894 -14.955826
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2671

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 24.334923 108.801783 1.851258
0.000978 2.002661 197.202337
0.57745 24.334923 108.801783 1.851258
0.000978 1.226258 151.603490
0.71830 24.334923 108.801783 1.851258
0.000978 0.449751 106.377166
0.85915 24.334923 108.801783 1.851258
0.000978 0.352367 62.359230
1.00000 24.334923 108.801783 1.851258
0.000978 1.202020 22.260371

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-55.055016	-6.868838	-2.023467
-0.001053	-2.190296	-13.214937	
0.57745	-55.055016	-6.868838	-2.023467
-0.001053	-1.341112	-10.368839	
0.71830	-55.055016	-6.868838	-2.023467
-0.001053	-0.491855	-7.573801	
0.85915	-55.055016	-6.868838	-2.023467
-0.001053	-0.327451	-5.957492	
1.00000	-55.055016	-6.868838	-2.023467
-0.001053	-1.103771	-10.239175	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	28.997321	114.205856	2.021542
0.002580	2.181657	213.614802	
0.57745	28.997321	114.205856	2.021542
0.002580	1.335930	166.072803	
0.71830	28.997321	114.205856	2.021542
0.002580	0.491562	121.321838	
0.85915	28.997321	114.205856	2.021542
0.002580	0.389109	87.410615	
1.00000	28.997321	114.205856	2.021542
0.002580	1.302883	57.855523	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-82.457752	-52.723873	-2.188722
-0.003242	-2.367977	-66.808532	
0.57745	-82.457752	-52.723873	-2.188722
-0.003242	-1.450025	-45.004966	
0.71830	-82.457752	-52.723873	-2.188722
-0.003242	-0.531899	-28.640409	
0.85915	-82.457752	-52.723873	-2.188722
-0.003242	-0.364935	-18.299744	
1.00000	-82.457752	-52.723873	-2.188722
-0.003242	-1.212468	-15.197311	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	43.285816	71.059721	1.087098
0.005302	1.169309	131.789433	
0.57745	43.285816	71.059721	1.087098
0.005302	0.715622	102.759490	
0.71830	43.285816	71.059721	1.087098
0.005302	0.263204	77.291475	
0.85915	43.285816	71.059721	1.087098
0.005302	0.208251	65.608666	
1.00000	43.285816	71.059721	1.087098
0.005302	0.686010	75.149637	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-57.391756	-115.873042	-1.149518
-0.006594	-1.242368	-135.981765	
0.57745	-57.391756	-115.873042	-1.149518
-0.006594	-0.760274	-89.666885	
0.71830	-57.391756	-115.873042	-1.149518
-0.006594	-0.278165	-57.364777	
0.85915	-57.391756	-115.873042	-1.149518
-0.006594	-0.119666	-35.119666	
1.00000	-57.391756	-115.873042	-1.149518
-0.006594	-0.657801	-22.724307	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2672

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	64.780829	114.205856	2.021542
0.004926	2.181657	213.614802	
0.57745	64.780829	114.205856	2.021542
0.004926	1.335930	166.072803	
0.71830	64.780829	114.205856	2.021542
0.004926	0.491562	121.321838	
0.85915	64.780829	114.205856	2.021542
0.004926	0.427714	87.410615	
1.00000	64.780829	114.205856	2.021542
0.004926	1.412139	83.422540	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-82.457752	-169.622087	-2.364039
-0.006528	-2.553602	-242.790412	
0.57745	-82.457752	-169.622087	-2.364039
-0.006528	-1.562525	-172.269595	
0.71830	-82.457752	-169.622087	-2.364039
-0.006528	-0.570981	-115.045133	
0.85915	-82.457752	-169.622087	-2.364039
-0.006528	-0.364935	-71.097324	
1.00000	-82.457752	-169.622087	-2.364039
-0.006528	-1.212468	-33.893651	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	64.780829	114.205856	2.021542
0.005302	2.181657	213.614802	
0.57745	64.780829	114.205856	2.021542
0.005302	1.335930	166.072803	
0.71830	64.780829	114.205856	2.021542
0.005302	0.491562	121.321838	
0.85915	64.780829	114.205856	2.021542
0.005302	0.427714	87.410615	
1.00000	64.780829	114.205856	2.021542
0.005302	1.412139	83.422540	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-82.457752	-169.622087	-2.364039
-0.006594	-2.553602	-242.790412	
0.57745	-82.457752	-169.622087	-2.364039
-0.006594	-1.562525	-172.269595	
0.71830	-82.457752	-169.622087	-2.364039
-0.006594	-0.570981	-115.045133	
0.85915	-82.457752	-169.622087	-2.364039
-0.006594	-0.364935	-71.097324	
1.00000	-82.457752	-169.622087	-2.364039
-0.006594	-1.212468	-33.893651	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	64.780829	114.205856	2.021542
0.005302	2.181657	213.614802	
0.57745	64.780829	114.205856	2.021542
0.005302	1.335930	166.072803	
0.71830	64.780829	114.205856	2.021542
0.005302	0.491562	121.321838	
0.85915	64.780829	114.205856	2.021542
0.005302	0.427714	87.410615	
1.00000	64.780829	114.205856	2.021542
0.005302	1.412139	83.422540	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-82.457752	-169.622087	-2.364039
-0.006594	-2.553602	-242.790412	
0.57745	-82.457752	-169.622087	-2.364039
-0.006594	-1.562525	-172.269595	
0.71830	-82.457752	-169.622087	-2.364039
-0.006594	-0.570981	-115.045133	
0.85915	-82.457752	-169.622087	-2.364039
-0.006594	-0.364935	-71.097324	
1.00000	-82.457752	-169.622087	-2.364039
-0.006594	-1.212468	-33.893651	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2673

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 245 ========== LENGTH = 2.977613

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.477401	3.193976	0.409089
0.000989	0.245904	3.260442	
0.14085	27.477401	3.193976	0.409089
0.000989	0.074316	11.221364	
0.28170	27.477401	3.193976	0.409089
0.000989	0.125187	28.048899	
0.42256	27.477401	3.193976	0.409089
0.000989	0.342018	44.905584	
0.56341	27.477401	3.193976	0.409089
0.000989	0.558828	61.767892	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.284905	-43.904780	-0.516950
-0.000934	-0.308414	-13.244965	
0.14085	-7.284905	-43.904780	-0.516950
-0.000934	-0.091539	-2.297382	
0.28170	-7.284905	-43.904780	-0.516950
-0.000934	-0.097254	-1.839031	
0.42256	-7.284905	-43.904780	-0.516950
-0.000934	-0.268828	-2.354393	
0.56341	-7.284905	-43.904780	-0.516950
-0.000934	-0.440398	-3.605257	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.275100	77.650422	0.722016
0.006613	0.448412	75.380842	
0.14085	30.275100	77.650422	0.722016
0.006613	0.145542	58.112486	
0.28170	30.275100	77.650422	0.722016
0.006613	0.199943	49.652307	
0.42256	30.275100	77.650422	0.722016
0.006613	0.548089	68.311246	
0.56341	30.275100	77.650422	0.722016
0.006613	0.896233	91.996817	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-50.052390	-62.310533	-0.830093
-0.005227	-0.496341	-18.475591	
0.14085	-50.052390	-62.310533	-0.830093
-0.005227	-0.157800	-4.164562	
0.28170	-50.052390	-62.310533	-0.830093
-0.005227	-0.174869	-4.113002	
0.42256	-50.052390	-62.310533	-0.830093
-0.005227	-0.471015	-26.548797	
0.56341	-50.052390	-62.310533	-0.830093
-0.005227	-0.770763	-58.801832	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.044882	77.425394	0.970848
0.004731	0.591989	55.257835	
0.14085	29.044882	77.425394	0.970848
0.004731	0.184714	38.891386	
0.28170	29.044882	77.425394	0.970848
0.004731	0.256329	34.924565	
0.42256	29.044882	77.425394	0.970848
0.004731	0.703670	49.444206	
0.56341	29.044882	77.425394	0.970848
0.004731	1.150949	67.386470	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-43.194561	-48.782048	-1.066465
-0.003777	-0.638167	-17.778442	
0.14085	-43.194561	-48.782048	-1.066465
-0.003777	-0.197315	-9.925272	
0.28170	-43.194561	-48.782048	-1.066465
-0.003777	-0.234355	-19.419114	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2674

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42256	-43.194561	-48.782048	-1.066465
-0.003777	-0.637016	-44.192753	
0.56341	-43.194561	-48.782048	-1.066465
-0.003777	-1.042104	-76.020136	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	43.242108	85.053424	1.076560
0.004381	0.653456	47.881899	
0.14085	43.242108	85.053424	1.076560
0.004381	0.201837	32.777363	
0.28170	43.242108	85.053424	1.076560
0.004381	0.278954	29.955898	
0.42256	43.242108	85.053424	1.076560
0.004381	0.766263	42.558824	
0.56341	43.242108	85.053424	1.076560
0.004381	1.253515	58.025209	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-42.039553	-41.909829	-1.161774
-0.003574	-0.695494	-22.736653	
0.14085	-42.039553	-41.909829	-1.161774
-0.003574	-0.213555	-24.958268	
0.28170	-42.039553	-41.909829	-1.161774
-0.003574	-0.259518	-40.828826	
0.42256	-42.039553	-41.909829	-1.161774
-0.003574	-0.707285	-69.376907	
0.56341	-42.039553	-41.909829	-1.161774
-0.003574	-1.157064	-103.785949	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.440755	70.479389	0.398845
0.004537	0.250883	65.155836	
0.14085	3.440755	70.479389	0.398845
0.004537	0.083570	44.984603	
0.28170	3.440755	70.479389	0.398845
0.004537	0.084014	25.700411	
0.42256	3.440755	70.479389	0.398845
0.004537	0.231732	29.056426	
0.56341	3.440755	70.479389	0.398845
0.004537	0.379435	36.615263	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-45.788095	-19.151229	-0.352175
-0.003431	-0.211378	-4.588126	
0.14085	-45.788095	-19.151229	-0.352175
-0.003431	-0.071788	-2.143576	
0.28170	-45.788095	-19.151229	-0.352175
-0.003431	-0.098456	-5.503072	
0.42256	-45.788095	-19.151229	-0.352175
-0.003431	-0.260144	-26.890771	
0.56341	-45.788095	-19.151229	-0.352175
-0.003431	-0.424854	-55.851838	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.837583	98.687452	0.743544
0.004439	0.456830	60.476746	
0.14085	19.837583	98.687452	0.743544
0.004439	0.144284	31.151501	
0.28170	19.837583	98.687452	0.743544
0.004439	0.169018	8.460529	
0.42256	19.837583	98.687452	0.743544
0.004439	0.465633	6.691457	
0.56341	19.837583	98.687452	0.743544
0.004439	0.762179	9.252717	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-43.753504	-7.763264	-0.707065
-0.003379	-0.424003	-11.918472	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2675

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	-43.753504	-7.763264	-0.707065
-0.003379	-0.134903	-21.212665	
0.28170	-43.753504	-7.763264	-0.707065
-0.003379	-0.181188	-38.388553	
0.42256	-43.753504	-7.763264	-0.707065
-0.003379	-0.487857	-71.985399	
0.56341	-43.753504	-7.763264	-0.707065
-0.003379	-0.797312	-112.734309	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.812987	94.589122	0.935219
0.003931	0.568219	53.660711	
0.14085	29.812987	94.589122	0.935219
0.003931	0.175911	32.273380	
0.28170	29.812987	94.589122	0.935219
0.003931	0.243231	24.712397	
0.42256	29.812987	94.589122	0.935219
0.003931	0.668854	32.486141	
0.56341	29.812987	94.589122	0.935219
0.003931	1.094405	43.331979	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-54.766840	-30.436086	-1.014658
-0.003157	-0.607800	-16.790132	
0.14085	-54.766840	-30.436086	-1.014658
-0.003157	-0.187458	-20.775740	
0.28170	-54.766840	-30.436086	-1.014658
-0.003157	-0.225981	-40.002751	
0.42256	-54.766840	-30.436086	-1.014658
-0.003157	-0.614552	-73.912804	
0.56341	-54.766840	-30.436086	-1.014658
-0.003157	-1.005094	-112.992481	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.934671	91.319662	1.057185
0.003736	0.639824	47.369101	
0.14085	29.934671	91.319662	1.057185
0.003736	0.196346	27.415729	
0.28170	29.934671	91.319662	1.057185
0.003736	0.270032	21.629706	
0.42256	29.934671	91.319662	1.057185
0.003736	0.742995	28.746841	
0.56341	29.934671	91.319662	1.057185
0.003736	1.215905	38.249809	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-52.997049	-26.950701	-1.127574
-0.003113	-0.675719	-16.345429	
0.14085	-52.997049	-26.950701	-1.127574
-0.003113	-0.207170	-22.111634	
0.28170	-52.997049	-26.950701	-1.127574
-0.003113	-0.255102	-41.313876	
0.42256	-52.997049	-26.950701	-1.127574
-0.003113	-0.695420	-74.542762	
0.56341	-52.997049	-26.950701	-1.127574
-0.003113	-1.137390	-112.264218	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.442408	17.923855	0.435466
0.000725	0.260505	4.741973	
0.14085	3.442408	17.923855	0.435466
0.000725	0.077810	2.676728	
0.28170	3.442408	17.923855	0.435466
0.000725	0.107887	3.728403	
0.42256	3.442408	17.923855	0.435466
0.000725	0.297562	4.814644	
0.56341	3.442408	17.923855	0.435466
0.000725	0.487196	5.908882	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2676

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.981895	-2.690207	-0.452178
-0.000776	-0.271383	-1.127347	
0.14085	-12.981895	-2.690207	-0.452178
-0.000776	-0.081661	-3.549574	
0.28170	-12.981895	-2.690207	-0.452178
-0.000776	-0.104794	-10.972475	
0.42256	-12.981895	-2.690207	-0.452178
-0.000776	-0.287425	-18.462460	
0.56341	-12.981895	-2.690207	-0.452178
-0.000776	-0.470053	-25.974801	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	31.213297	51.844774	0.746206
0.001390	0.446978	8.750709	
0.14085	31.213297	51.844774	0.746206
0.001390	0.133993	2.480512	
0.28170	31.213297	51.844774	0.746206
0.001390	0.184760	2.840533	
0.42256	31.213297	51.844774	0.746206
0.001390	0.508949	4.229980	
0.56341	31.213297	51.844774	0.746206
0.001390	0.833089	5.845608	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.016097	-3.999059	-0.772860
-0.001346	-0.463481	-13.900669	
0.14085	-20.016097	-3.999059	-0.772860
-0.001346	-0.139506	-29.479649	
0.28170	-20.016097	-3.999059	-0.772860
-0.001346	-0.179502	-49.994051	
0.42256	-20.016097	-3.999059	-0.772860
-0.001346	-0.492261	-71.403719	
0.56341	-20.016097	-3.999059	-0.772860
-0.001346	-0.805123	-93.127910	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	18.358601	60.909349	1.002410
0.001208	0.599984	15.175008	
0.14085	18.358601	60.909349	1.002410
0.001208	0.179479	3.975972	
0.28170	18.358601	60.909349	1.002410
0.001208	0.238592	3.438203	
0.42256	18.358601	60.909349	1.002410
0.001208	0.657498	4.733865	
0.56341	18.358601	60.909349	1.002410
0.001208	1.076321	6.441758	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-31.104382	-4.177889	-0.998615
-0.001159	-0.598970	-8.206937	
0.14085	-31.104382	-4.177889	-0.998615
-0.001159	-0.180446	-21.683476	
0.28170	-31.104382	-4.177889	-0.998615
-0.001159	-0.241734	-44.576097	
0.42256	-31.104382	-4.177889	-0.998615
-0.001159	-0.661820	-68.813665	
0.56341	-31.104382	-4.177889	-0.998615
-0.001159	-1.082076	-93.736708	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	20.852123	103.170330	1.092592
0.004158	0.661820	55.414993	
0.14085	20.852123	103.170330	1.092592
0.004158	0.203498	28.364651	
0.28170	20.852123	103.170330	1.092592
0.004158	0.267431	16.632660	
0.42256	20.852123	103.170330	1.092592
0.004158	0.736636	20.167207	
0.56341	20.852123	103.170330	1.092592
0.004158	1.205770	26.170340	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2677

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-61.541839	-18.770696	-1.118575
-0.003447	-0.670766	-11.798670	
0.14085	-61.541839	-18.770696	-1.118575
-0.003447	-0.206743	-19.397901	
0.28170	-61.541839	-18.770696	-1.118575
-0.003447	-0.264342	-43.211536	
0.42256	-61.541839	-18.770696	-1.118575
-0.003447	-0.718964	-80.753345	
0.56341	-61.541839	-18.770696	-1.118575
-0.003447	-1.175527	-123.512070	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	56.225030	4.673719	0.710237
0.001106	0.426512	4.812881	
0.14085	56.225030	4.673719	0.710237
0.001106	0.128759	18.067948	
0.28170	56.225030	4.673719	0.710237
0.001106	0.269469	55.742747	
0.42256	56.225030	4.673719	0.710237
0.001106	0.735772	93.903351	
0.56341	56.225030	4.673719	0.710237
0.001106	1.202082	132.318689	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.950148	-94.701568	-1.111828
-0.001000	-0.663180	-28.293954	
0.14085	-9.950148	-94.701568	-1.111828
-0.001000	-0.196828	-4.911171	
0.28170	-9.950148	-94.701568	-1.111828
-0.001000	-0.168130	-2.935943	
0.42256	-9.950148	-94.701568	-1.111828
-0.001000	-0.465963	-3.609273	
0.56341	-9.950148	-94.701568	-1.111828
-0.001000	-0.763948	-4.791738	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	56.501077	83.891685	1.259460
0.006717	0.770678	83.488064	
0.14085	56.501077	83.891685	1.259460
0.006717	0.242995	69.837402	
0.28170	56.501077	83.891685	1.259460
0.006717	0.383675	80.155748	
0.42256	56.501077	83.891685	1.259460
0.006717	1.051390	119.506082	
0.56341	56.501077	83.891685	1.259460
0.006717	1.719472	164.518425	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-65.805553	-113.262162	-1.595568
-0.004971	-0.959365	-32.972570	
0.14085	-65.805553	-113.262162	-1.595568
-0.004971	-0.304366	-5.734468	
0.28170	-65.805553	-113.262162	-1.595568
-0.004971	-0.305980	-6.000976	
0.42256	-65.805553	-113.262162	-1.595568
-0.004971	-0.824735	-30.762473	
0.56341	-65.805553	-113.262162	-1.595568
-0.004971	-1.348181	-64.015961	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	54.661277	107.191267	1.683693
0.005001	1.019985	66.202383	
0.14085	54.661277	107.191267	1.683693
0.005001	0.314506	51.391934	
0.28170	54.661277	107.191267	1.683693
0.005001	0.501116	64.912854	
0.42256	54.661277	107.191267	1.683693
0.005001	1.376997	98.807688	
0.56341	54.661277	107.191267	1.683693
0.005001	2.252741	136.709339	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2678

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-64.099246	-96.335847	-2.089756
-0.003742	-1.253455	-30.365593	
0.14085	-64.099246	-96.335847	-2.089756
-0.003742	-0.387186	-19.096069	
0.28170	-64.099246	-96.335847	-2.089756
-0.003742	-0.407428	-38.816533	
0.42256	-64.099246	-96.335847	-2.089756
-0.003742	-1.106543	-75.670880	
0.56341	-64.099246	-96.335847	-2.089756
-0.003742	-1.809195	-118.651600	

COMB DL-G1-4 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	64.769799	131.623748	1.931093
0.004580	1.166643	58.171243	
0.14085	64.769799	131.623748	1.931093
0.004580	0.357330	43.434547	
0.28170	64.769799	131.623748	1.931093
0.004580	0.572139	55.311771	
0.42256	64.769799	131.623748	1.931093
0.004580	1.574135	84.137740	
0.56341	64.769799	131.623748	1.931093
0.004580	2.575746	116.301365	

COMB DL-G1-4 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-62.560839	-81.825663	-2.389285
-0.003538	-1.432440	-33.887453	
0.14085	-62.560839	-81.825663	-2.389285
-0.003538	-0.438369	-39.821837	
0.28170	-62.560839	-81.825663	-2.389285
-0.003538	-0.465701	-73.792296	
0.42256	-62.560839	-81.825663	-2.389285
-0.003538	-1.269885	-121.989863	
0.56341	-62.560839	-81.825663	-2.389285
-0.003538	-2.076817	-175.268702	

COMB DL-G2-1 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	4.900350	69.957044	0.613812
0.003822	0.377248	65.598575	
0.14085	4.900350	69.957044	0.613812
0.003822	0.120096	44.425352	
0.28170	4.900350	69.957044	0.613812
0.003822	0.126135	27.291408	
0.42256	4.900350	69.957044	0.613812
0.003822	0.348768	30.869294	
0.56341	4.900350	69.957044	0.613812
0.003822	0.571386	38.326049	

COMB DL-G2-1 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-62.715301	-20.269560	-0.533055
-0.002679	-0.323962	-5.182619	
0.14085	-62.715301	-20.269560	-0.533055
-0.002679	-0.110391	-3.244110	
0.28170	-62.715301	-20.269560	-0.533055
-0.002679	-0.152668	-8.201367	
0.42256	-62.715301	-20.269560	-0.533055
-0.002679	-0.403492	-30.603057	
0.56341	-62.715301	-20.269560	-0.533055
-0.002679	-0.657627	-58.694813	

COMB DL-G2-2 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	22.429789	130.246544	1.239981
0.003843	0.752840	62.167468	
0.14085	22.429789	130.246544	1.239981
0.003843	0.233077	30.998866	
0.28170	22.429789	130.246544	1.239981
0.003843	0.319937	11.100112	
0.42256	22.429789	130.246544	1.239981
0.003843	0.883218	10.022841	
0.56341	22.429789	130.246544	1.239981
0.003843	1.446576	12.497995	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2679
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-61.878595	-8.848825	-1.344386
-0.002729	-0.808832	-12.725071	
0.14085	-61.878595	-8.848825	-1.344386
-0.002729	-0.254163	-32.625734	
0.28170	-61.878595	-8.848825	-1.344386
-0.002729	-0.302940	-65.203306	
0.42256	-61.878595	-8.848825	-1.344386
-0.002729	-0.816653	-113.243996	
0.56341	-61.878595	-8.848825	-1.344386
-0.002729	-1.333138	-166.560940	

COMB DL-G2-3 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	39.479152	122.510221	1.667478
0.003367	1.005129	55.102747	
0.14085	39.479152	122.510221	1.667478
0.003367	0.306391	37.730118	
0.28170	39.479152	122.510221	1.667478
0.003367	0.467137	42.629390	
0.42256	39.479152	122.510221	1.667478
0.003367	1.281190	60.575511	
0.56341	39.479152	122.510221	1.667478
0.003367	2.105336	81.311090	

COMB DL-G2-3 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-72.638215	-54.047965	-1.953632
-0.002618	-1.171866	-21.611070	
0.14085	-72.638215	-54.047965	-1.953632
-0.002618	-0.358428	-31.369186	
0.28170	-72.638215	-54.047965	-1.953632
-0.002618	-0.403087	-65.986074	
0.42256	-72.638215	-54.047965	-1.953632
-0.002618	-1.098145	-111.921558	
0.56341	-72.638215	-54.047965	-1.953632
-0.002618	-1.794979	-161.574142	

COMB DL-G2-4 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	39.249593	131.381226	1.977589
0.003265	1.190364	50.503971	
0.14085	39.249593	131.381226	1.977589
0.003265	0.361167	32.217045	
0.28170	39.249593	131.381226	1.977589
0.003265	0.544797	36.820130	
0.42256	39.249593	131.381226	1.977589
0.003265	1.502802	52.410767	
0.56341	39.249593	131.381226	1.977589
0.003265	2.460553	70.174294	

COMB DL-G2-4 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-72.463108	-46.817312	-2.283833
-0.002693	-1.370122	-20.621682	
0.14085	-72.463108	-46.817312	-2.283833
-0.002693	-0.416630	-36.422835	
0.28170	-72.463108	-46.817312	-2.283833
-0.002693	-0.476488	-76.577752	
0.42256	-72.463108	-46.817312	-2.283833
-0.002693	-1.302419	-126.987715	
0.56341	-72.463108	-46.817312	-2.283833
-0.002693	-2.129641	-180.557173	

COMB DL-G3-1 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	5.002226	34.584718	0.943187
0.000734	0.565267	10.400890	
0.14085	5.002226	34.584718	0.943187
0.000734	0.169581	2.898682	
0.28170	5.002226	34.584718	0.943187
0.000734	0.234646	4.586590	
0.42256	5.002226	34.584718	0.943187
0.000734	0.651015	6.326126	
0.56341	5.002226	34.584718	0.943187
0.000734	1.067169	8.077570	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2680
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-25.739599	-4.349364	-0.991838
-0.000827	-0.595936	-1.616058	
0.14085	-25.739599	-4.349364	-0.991838
-0.000827	-0.179455	-6.052656	
0.28170	-25.739599	-4.349364	-0.991838
-0.000827	-0.225618	-20.397145	
0.42256	-25.739599	-4.349364	-0.991838
-0.000827	-0.621379	-34.819664	
0.56341	-25.739599	-4.349364	-0.991838
-0.000827	-1.016982	-49.254693	

COMB DL-G3-2 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	34.682445	98.228212	1.536232
0.001332	0.921270	13.943062	
0.14085	34.682445	98.228212	1.536232
0.001332	0.277030	2.956754	
0.28170	34.682445	98.228212	1.536232
0.001332	0.419079	4.026574	
0.42256	34.682445	98.228212	1.536232
0.001332	1.159108	5.746272	
0.56341	34.682445	98.228212	1.536232
0.001332	1.898528	7.607917	

COMB DL-G3-2 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-34.067358	-4.938939	-1.762375
-0.001318	-1.056747	-14.953374	
0.14085	-34.067358	-4.938939	-1.762375
-0.001318	-0.316855	-43.779892	
0.28170	-34.067358	-4.938939	-1.762375
-0.001318	-0.367831	-84.057843	
0.42256	-34.067358	-4.938939	-1.762375
-0.001318	-1.011961	-124.087215	
0.56341	-34.067358	-4.938939	-1.762375
-0.001318	-1.656192	-165.895598	

COMB DL-G3-3 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	24.541748	110.452327	1.889450
0.000984	1.131497	22.304903	
0.14085	24.541748	110.452327	1.889450
0.000984	0.339075	5.059206	
0.28170	24.541748	110.452327	1.889450
0.000984	0.494600	7.174517	
0.42256	24.541748	110.452327	1.889450
0.000984	1.368416	9.446392	
0.56341	24.541748	110.452327	1.889450
0.000984	2.241972	11.752935	

COMB DL-G3-3 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-55.358219	-6.848337	-2.081724
-0.001012	-1.248130	-10.236849	
0.14085	-55.358219	-6.848337	-2.081724
-0.001012	-0.374158	-36.364484	
0.28170	-55.358219	-6.848337	-2.081724
-0.001012	-0.454126	-81.584513	
0.42256	-55.358219	-6.848337	-2.081724
-0.001012	-1.246603	-127.023496	
0.56341	-55.358219	-6.848337	-2.081724
-0.001012	-2.039064	-172.578781	

COMB DL-G3-4 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	29.102117	138.232218	2.053370
0.003447	1.235618	57.922968	
0.14085	29.102117	138.232218	2.053370
0.003447	0.374744	31.848321	
0.28170	29.102117	138.232218	2.053370
0.003447	0.533081	27.760805	
0.42256	29.102117	138.232218	2.053370
0.003447	1.473310	36.594028	
0.56341	29.102117	138.232218	2.053370
0.003447	2.413320	47.793333	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2681
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-85.793376	-30.358752	-2.241504
-0.002800	-1.346187	-15.202229	
0.14085	-85.793376	-30.358752	-2.241504
-0.002800	-0.411074	-32.244383	
0.28170	-85.793376	-30.358752	-2.241504
-0.002800	-0.495437	-75.148936	
0.42256	-85.793376	-30.358752	-2.241504
-0.002800	-1.352844	-128.351025	
0.56341	-85.793376	-30.358752	-2.241504
-0.002800	-2.211998	-184.945353	

COMB DB ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	43.242108	103.170330	1.092592
0.006613	0.661820	75.380842	
0.14085	43.242108	103.170330	1.092592
0.006613	0.203498	58.112486	
0.28170	43.242108	103.170330	1.092592
0.006613	0.278954	49.652307	
0.42256	43.242108	103.170330	1.092592
0.006613	0.766263	68.311246	
0.56341	43.242108	103.170330	1.092592
0.006613	1.253515	91.996817	

COMB DB ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-61.541839	-62.310533	-1.161774
-0.005227	-0.695494	-22.736653	
0.14085	-61.541839	-62.310533	-1.161774
-0.005227	-0.213555	-29.479649	
0.28170	-61.541839	-62.310533	-1.161774
-0.005227	-0.264342	-49.994051	
0.42256	-61.541839	-62.310533	-1.161774
-0.005227	-0.718964	-80.753345	
0.56341	-61.541839	-62.310533	-1.161774
-0.005227	-1.175527	-123.512070	

COMB DL ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	64.769799	138.232218	2.053370
0.006717	1.235618	83.488064	
0.14085	64.769799	138.232218	2.053370
0.006717	0.374744	69.837402	
0.28170	64.769799	138.232218	2.053370
0.006717	0.572139	80.155748	
0.42256	64.769799	138.232218	2.053370
0.006717	1.574135	119.506082	
0.56341	64.769799	138.232218	2.053370
0.006717	2.575746	164.518425	

COMB DL ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-85.793376	-113.262162	-2.389285
-0.004971	-1.432440	-33.887453	
0.14085	-85.793376	-113.262162	-2.389285
-0.004971	-0.438369	-43.779892	
0.28170	-85.793376	-113.262162	-2.389285
-0.004971	-0.495437	-84.057843	
0.42256	-85.793376	-113.262162	-2.389285
-0.004971	-1.352844	-128.351025	
0.56341	-85.793376	-113.262162	-2.389285
-0.004971	-2.211998	-184.945353	

COMB CAR ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	64.769799	138.232218	2.053370
0.006717	1.235618	83.488064	
0.14085	64.769799	138.232218	2.053370
0.006717	0.374744	69.837402	
0.28170	64.769799	138.232218	2.053370
0.006717	0.572139	80.155748	
0.42256	64.769799	138.232218	2.053370
0.006717	1.574135	119.506082	
0.56341	64.769799	138.232218	2.053370
0.006717	2.575746	164.518425	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2682
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-85.793376	-113.262162	-2.389285
-0.005227	-1.432440	-33.887453	
0.14085	-85.793376	-113.262162	-2.389285
-0.005227	-0.438369	-43.779892	
0.28170	-85.793376	-113.262162	-2.389285
-0.005227	-0.495437	-84.057843	
0.42256	-85.793376	-113.262162	-2.389285
-0.005227	-1.352844	-128.351025	
0.56341	-85.793376	-113.262162	-2.389285
-0.005227	-2.211998	-184.945353	

COMB DESIGN ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	64.769799	138.232218	2.053370
0.006717	1.235618	83.488064	
0.14085	64.769799	138.232218	2.053370
0.006717	0.374744	69.837402	
0.28170	64.769799	138.232218	2.053370
0.006717	0.572139	80.155748	
0.42256	64.769799	138.232218	2.053370
0.006717	1.574135	119.506082	
0.56341	64.769799	138.232218	2.053370
0.006717	2.575746	164.518425	

COMB DESIGN ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-85.793376	-113.262162	-2.389285
-0.005227	-1.432440	-33.887453	
0.14085	-85.793376	-113.262162	-2.389285
-0.005227	-0.438369	-43.779892	
0.28170	-85.793376	-113.262162	-2.389285
-0.005227	-0.495437	-84.057843	
0.42256	-85.793376	-113.262162	-2.389285
-0.005227	-1.352844	-128.351025	
0.56341	-85.793376	-113.262162	-2.389285
-0.005227	-2.211998	-184.945353	

ELEM 246 ========== LENGTH = 2.977709

COMB DB-G1-1 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.43658	19.673962	11.696267	0.363074
0.001482	0.408996	7.172604	
0.57743	19.673962	11.696267	0.363074
0.001482	0.256719	5.964039	
0.71829	19.673962	11.696267	0.363074
0.001482	0.104549	4.799747	
0.85914	19.673962	11.696267	0.363074
0.001482	0.048092	3.772780	
1.00000	19.673962	11.696267	0.363074
0.001482	0.340871	3.180092	

COMB DB-G1-1 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.43658	-5.044642	-44.247176	-0.600684
-0.000372	-0.666940	-80.769750	
0.57743	-5.044642	-44.247176	-0.600684
-0.000372	-0.415006	-62.279738	
0.71829	-5.044642	-44.247176	-0.600684
-0.000372	-0.163089	-43.830780	
0.85914	-5.044642	-44.247176	-0.600684
-0.000372	-0.047837	-25.744345	
1.00000	-5.044642	-44.247176	-0.600684
-0.000372	-0.200169	-17.665312	

COMB DB-G1-2 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.43658	21.366206	37.443821	0.725679
0.007620	0.771292	63.045846	
0.57743	21.366206	37.443821	0.725679
0.007620	0.470422	49.226305	
0.71829	21.366206	37.443821	0.725679
0.007620	0.180192	45.658486	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2683
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.85914	21.366206	37.443821	0.725679
0.007620	0.139762	63.701402	
1.00000	21.366206	37.443821	0.725679
0.007620	0.508699	93.166272	

COMB DB-G1-2 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.43658	-30.222065	-125.623553	-0.911558
-0.006308	-1.020891	-129.309875	
0.57743	-30.222065	-125.623553	-0.911558
-0.006308	-0.638597	-79.670659	
0.71829	-30.222065	-125.623553	-0.911558
-0.006308	-0.256325	-50.756765	
0.85914	-30.222065	-125.623553	-0.911558
-0.006308	-0.143872	-29.008980	
1.00000	-30.222065	-125.623553	-0.911558
-0.006308	-0.447189	-14.065622	

COMB DB-G1-3 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.43658	20.436486	56.657547	0.857719
0.005551	0.932220	92.249942	
0.57743	20.436486	56.657547	0.857719
0.005551	0.574758	69.125659	
0.71829	20.436486	56.657547	0.857719
0.005551	0.224390	53.107371	
0.85914	20.436486	56.657547	0.857719
0.005551	0.160506	58.124569	
1.00000	20.436486	56.657547	0.857719
0.005551	0.628100	74.970883	

COMB DB-G1-3 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.43658	-26.520431	-114.172141	-1.136095
-0.005006	-1.278185	-131.467056	
0.57743	-26.520431	-114.172141	-1.136095
-0.005006	-0.801685	-85.890793	
0.71829	-26.520431	-114.172141	-1.136095
-0.005006	-0.325237	-54.616968	
0.85914	-26.520431	-114.172141	-1.136095
-0.005006	-0.147781	-27.582461	
1.00000	-26.520431	-114.172141	-1.136095
-0.005006	-0.506835	-13.986809	

COMB DB-G1-4 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.43658	30.459576	65.150033	0.927354
0.004707	1.014448	108.451364	
0.57743	30.459576	65.150033	0.927354
0.004707	0.627390	81.762659	
0.71829	30.459576	65.150033	0.927354
0.004707	0.246195	61.042406	
0.85914	30.459576	65.150033	0.927354
0.004707	0.173259	58.075200	
1.00000	30.459576	65.150033	0.927354
0.004707	0.667253	65.565669	

COMB DB-G1-4 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.43658	-26.497535	-96.469203	-1.207569
-0.004668	-1.360487	-113.326097	
0.57743	-26.497535	-96.469203	-1.207569
-0.004668	-0.854020	-77.115752	
0.71829	-26.497535	-96.469203	-1.207569
-0.004668	-0.347665	-53.252683	
0.85914	-26.497535	-96.469203	-1.207569
-0.004668	-0.153036	-33.640393	
1.00000	-26.497535	-96.469203	-1.207569
-0.004668	-0.541454	-25.941373	

COMB DB-G2-1 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.43658	2.374404	18.509900	0.409924
0.005035	0.419179	39.448551	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2684
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.57743	2.374404	18.509900	0.409924
0.005035	0.250124	32.502057	
0.71829	2.374404	18.509900	0.409924
0.005035	0.089930	37.121538	
0.85914	2.374404	18.509900	0.409924
0.005035	0.050990	59.587289	
1.00000	2.374404	18.509900	0.409924
0.005035	0.182850	88.258835	

COMB DB-G2-1 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.43658	-27.808476	-83.311261	-0.341469
-0.005211	-0.390199	-54.096668	
0.57743	-27.808476	-83.311261	-0.341469
-0.005211	-0.247020	-21.997208	
0.71829	-27.808476	-83.311261	-0.341469
-0.005211	-0.103881	-7.503857	
0.85914	-27.808476	-83.311261	-0.341469
-0.005211	-0.098226	-1.741346	
1.00000	-27.808476	-83.311261	-0.341469
-0.005211	-0.268751	-1.276344	

COMB DB-G2-2 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.43658	13.871814	45.911720	0.640833
0.004686	0.681270	81.360201	
0.57743	13.871814	45.911720	0.640833
0.004686	0.415106	62.866250	
0.71829	13.871814	45.911720	0.640833
0.004686	0.157046	52.270749	
0.85914	13.871814	45.911720	0.640833
0.004686	0.101153	55.009267	
1.00000	13.871814	45.911720	0.640833
0.004686	0.379941	83.655124	

COMB DB-G2-2 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.43658	-26.429976	-81.854744	-0.699327
-0.005523	-0.795596	-62.189586	
0.57743	-26.429976	-81.854744	-0.699327
-0.005523	-0.502314	-31.464680	
0.71829	-26.429976	-81.854744	-0.699327
-0.005523	-0.209110	-17.524582	
0.85914	-26.429976	-81.854744	-0.699327
-0.005523	-0.126045	-9.108573	
1.00000	-26.429976	-81.854744	-0.699327
-0.005523	-0.393968	-11.855479	

COMB DB-G2-3 ------------------- MAX

REL DIST T	P M2	V2 M3	V3
0.43658	20.812547	77.484297	0.785718
0.004175	0.855680	144.180254	
0.57743	20.812547	77.484297	0.785718
0.004175	0.527993	112.242348	
0.71829	20.812547	77.484297	0.785718
0.004175	0.205984	85.923290	
0.85914	20.812547	77.484297	0.785718
0.004175	0.147820	78.343379	
1.00000	20.812547	77.484297	0.785718
0.004175	0.576499	75.055579	

COMB DB-G2-3 ------------------- MIN

REL DIST T	P M2	V2 M3	V3
0.43658	-37.034500	-89.602089	-1.048802
-0.004355	-1.185118	-97.036916	
0.57743	-37.034500	-89.602089	-1.048802
-0.004355	-0.745260	-62.421082	

0.71829 -37.034500 -89.602089 -1.048802
-0.004355 -0.305463 -39.902549
0.85914 -37.034500 -89.602089 -1.048802
-0.004355 -0.134103 -21.874169
1.00000 -37.034500 -89.602089 -1.048802
-0.004355 -0.462662 -14.859382
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2685

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 21.003406 79.073452 0.888701
0.003669 0.974659 149.477151
0.57743 21.003406 79.073452 0.888701
0.003669 0.603476 116.766020
0.71829 21.003406 79.073452 0.888701
0.003669 0.237034 88.767398
0.85914 21.003406 79.073452 0.888701
0.003669 0.157069 76.352943
1.00000 21.003406 79.073452 0.888701
0.003669 0.618950 67.551358

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -36.286694 -76.251608 -1.121825
-0.004149 -1.264526 -85.680352
0.57743 -36.286694 -76.251608 -1.121825
-0.004149 -0.794017 -57.970066
0.71829 -36.286694 -76.251608 -1.121825
-0.004149 -0.325330 -40.335816
0.85914 -36.286694 -76.251608 -1.121825
-0.004149 -0.144555 -26.381348
1.00000 -36.286694 -76.251608 -1.121825
-0.004149 -0.516414 -21.444072

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 2.381092 20.093649 0.370523
0.000311 0.414557 43.200705
0.57743 2.381092 20.093649 0.370523
0.000311 0.259153 34.792714
0.71829 2.381092 20.093649 0.370523
0.000311 0.103765 26.417809
0.85914 2.381092 20.093649 0.370523
0.000311 0.056709 18.096371
1.00000 2.381092 20.093649 0.370523
0.000311 0.225347 9.958502

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -9.494222 -2.743646 -0.402052
-0.000786 -0.449775 -11.197969
0.57743 -9.494222 -2.743646 -0.402052
-0.000786 -0.281144 -10.999421
0.71829 -9.494222 -2.743646 -0.402052
-0.000786 -0.112497 -10.969283
0.85914 -9.494222 -2.743646 -0.402052
-0.000786 -0.051600 -11.081541
1.00000 -9.494222 -2.743646 -0.402052
-0.000786 -0.207076 -11.301152

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 22.053615 44.209770 0.603980
0.000531 0.674180 82.131958
0.57743 22.053615 44.209770 0.603980
0.000531 0.420963 63.859550
0.71829 22.053615 44.209770 0.603980
0.000531 0.168036 46.070214
0.85914 22.053615 44.209770 0.603980
0.000531 0.110554 29.488866
1.00000 22.053615 44.209770 0.603980
0.000531 0.403268 14.966869

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -14.425884 -6.374440 -0.721025
-0.001592 -0.809254 -17.323607
0.57743 -14.425884 -6.374440 -0.721025
-0.001592 -0.506854 -18.234458
0.71829 -14.425884 -6.374440 -0.721025
-0.001592 -0.204501 -20.717425
0.85914 -14.425884 -6.374440 -0.721025
-0.001592 -0.085763 -24.643655
1.00000 -14.425884 -6.374440 -0.721025
-0.001592 -0.339124 -30.201703
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2686

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 12.793458 56.806894 0.801323
0.000613 0.899901 103.576733
0.57743 12.793458 56.806894 0.801323
0.000613 0.554976 79.895612
0.71829 12.793458 56.806894 0.801323
0.000613 0.219538 56.870435
0.85914 12.793458 56.806894 0.801323
0.000613 0.117611 42.627960
1.00000 12.793458 56.806894 0.801323
0.000613 0.518026 32.467946

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -21.301812 -33.989800 -0.940626
-0.002023 -1.061872 -46.586321
0.57743 -21.301812 -33.989800 -0.940626
-0.002023 -0.667383 -35.376030
0.71829 -21.301812 -33.989800 -0.940626
-0.002023 -0.272954 -25.991315
0.85914 -21.301812 -33.989800 -0.940626
-0.002023 -0.117560 -18.745023
1.00000 -21.301812 -33.989800 -0.940626
-0.002023 -0.453639 -21.964608

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 14.506272 79.025830 0.931508
0.003927 1.008067 155.954223
0.57743 14.506272 79.025830 0.931508
0.003927 0.619206 123.337195
0.71829 14.506272 79.025830 0.931508
0.003927 0.259301 96.259247
0.85914 14.506272 79.025830 0.931508
0.003927 0.152275 86.411593
1.00000 14.506272 79.025830 0.931508
0.003927 0.596898 80.071461

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -41.224864 -72.710033 -1.084260
-0.004698 -1.223856 -74.301971
0.57743 -41.224864 -72.710033 -1.084260
-0.004698 -0.769117 -47.763962
0.71829 -41.224864 -72.710033 -1.084260
-0.004698 -0.314462 -33.055432
0.85914 -41.224864 -72.710033 -1.084260
-0.004698 -0.164652 -22.422552
1.00000 -41.224864 -72.710033 -1.084260
-0.004698 -0.554801 -20.605713

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 38.230325 12.490890 0.472121
0.001647 0.543432 12.979555
0.57743 38.230325 12.490890 0.472121
0.001647 0.345520 9.332601
0.71829 38.230325 12.490890 0.472121
0.001647 0.147889 7.453351
0.85914 38.230325 12.490890 0.472121
0.001647 0.183089 5.860666
1.00000 38.230325 12.490890 0.472121
0.001647 0.682854 4.517360

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -6.891417 -70.603473 -1.204509
-0.000334 -1.338701 -142.804721
0.57743 -6.891417 -70.603473 -1.204509
-0.000334 -0.833649 -113.725880
0.71829 -6.891417 -70.603473 -1.204509
-0.000334 -0.328923 -85.439090
0.85914 -6.891417 -70.603473 -1.204509
-0.000334 -0.055847 -57.555178
1.00000 -6.891417 -70.603473 -1.204509
-0.000334 -0.248524 -33.432815
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2687

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 38.678219 36.106298 1.033014
0.007762 1.128521 70.123874
0.57743 38.678219 36.106298 1.033014
0.007762 0.702394 56.674591
0.71829 38.678219 36.106298 1.033014
0.007762 0.279535 54.603137
0.85914 38.678219 36.106298 1.033014
0.007762 0.244404 73.089705
1.00000 38.678219 36.106298 1.033014
0.007762 0.911392 98.936233

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -41.576151 -151.258815 -1.628961
-0.006500 -1.824183 -194.812357
0.57743 -41.576151 -151.258815 -1.628961
-0.006500 -1.141317 -132.729021
0.71829 -41.576151 -151.258815 -1.628961
-0.006500 -0.460404 -90.746122
0.85914 -41.576151 -151.258815 -1.628961
-0.006500 -0.176702 -57.811066
1.00000 -41.576151 -151.258815 -1.628961
-0.006500 -0.606815 -30.549603

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 37.968405 64.288030 1.318983
0.005862 1.457369 120.163257
0.57743 37.968405 64.288030 1.318983
0.005862 0.909392 94.347715
0.71829 37.968405 64.288030 1.318983
0.005862 0.363737 76.639545
0.85914 37.968405 64.288030 1.318983
0.005862 0.291249 75.662658
1.00000 37.968405 64.288030 1.318983
0.005862 1.151990 84.374076

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -40.916153 -135.067650 -2.076925
-0.005255 -2.333398 -186.152929
0.57743 -40.916153 -135.067650 -2.076925
-0.005255 -1.462286 -130.703475
0.71829 -40.916153 -135.067650 -2.076925
-0.005255 -0.592544 -89.779341
0.85914 -40.916153 -135.067650 -2.076925
-0.005255 -0.205925 -54.793035
1.00000 -40.916153 -135.067650 -2.076925
-0.005255 -0.756996 -29.569997

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 45.207596 84.078062 1.516567
0.004948 1.682060 147.934492
0.57743 45.207596 84.078062 1.516567
0.004948 1.050341 114.383833
0.71829 45.207596 84.078062 1.516567
0.004948 0.420519 88.041619
0.85914 45.207596 84.078062 1.516567
0.004948 0.332401 76.348406
1.00000 45.207596 84.078062 1.516567
0.004948 1.312819 74.151016

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -40.538027 -114.084275 -2.361186
-0.004906 -2.650144 -160.534165
0.57743 -40.538027 -114.084275 -2.361186
-0.004906 -1.659683 -115.155789
0.71829 -40.538027 -114.084275 -2.361186
-0.004906 -0.670340 -82.296484
0.85914 -40.538027 -114.084275 -2.361186
-0.004906 -0.229512 -55.393200
1.00000 -40.538027 -114.084275 -2.361186
-0.004906 -0.863658 -38.394537
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2688

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 3.386615 21.438551 0.606547
0.004198 0.639395 52.843572
0.57743 3.386615 21.438551 0.606547
0.004198 0.389914 45.213315
0.71829 3.386615 21.438551 0.606547
0.004198 0.142346 46.837805
0.85914 3.386615 21.438551 0.606547
0.004198 0.067554 63.684475
1.00000 3.386615 21.438551 0.606547
0.004198 0.253851 84.693987

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -39.703122 -71.980934 -0.469897
-0.004560 -0.535997 -52.073923
0.57743 -39.703122 -71.980934 -0.469897
-0.004560 -0.339034 -23.034071
0.71829 -39.703122 -71.980934 -0.469897
-0.004560 -0.143803 -8.265935
0.85914 -39.703122 -71.980934 -0.469897
-0.004560 -0.128415 -2.405993
1.00000 -39.703122 -71.980934 -0.469897
-0.004560 -0.380843 -1.711175

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 15.790232 63.803558 1.045972
0.004006 1.136597 120.480301
0.57743 15.790232 63.803558 1.045972
0.004006 0.702729 95.055075
0.71829 15.790232 63.803558 1.045972
0.004006 0.271196 77.708189
0.85914 15.790232 63.803558 1.045972
0.004006 0.175163 77.393156
1.00000 15.790232 63.803558 1.045972
0.004006 0.695294 82.743832

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -38.644914 -69.805531 -1.263974
-0.005014 -1.427437 -58.274605
0.57743 -38.644914 -69.805531 -1.263974
-0.005014 -0.897203 -30.656544
0.71829 -38.644914 -69.805531 -1.263974
-0.005014 -0.366086 -16.986037
0.85914 -38.644914 -69.805531 -1.263974
-0.005014 -0.183445 -10.011312
1.00000 -38.644914 -69.805531 -1.263974
-0.005014 -0.620945 -12.463767

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 27.987817 89.885884 1.342764
0.003555 1.483428 173.991307
0.57743 27.987817 89.885884 1.342764
0.003555 0.923429 137.331386
0.71829 27.987817 89.885884 1.342764
0.003555 0.365101 106.136358
0.85914 27.987817 89.885884 1.342764
0.003555 0.256941 87.289606
1.00000 27.987817 89.885884 1.342764
0.003555 1.045217 74.161867

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -48.337371 -91.847837 -1.895577
-0.003711 -2.136696 -120.798091
0.57743 -48.337371 -91.847837 -1.895577
-0.003711 -1.341596 -83.628956
0.71829 -48.337371 -91.847837 -1.895577
-0.003711 -0.547380 -55.754065
0.85914 -48.337371 -91.847837 -1.895577
-0.003711 -0.210922 -32.939109
1.00000 -48.337371 -91.847837 -1.895577
-0.003711 -0.270653 -19.661114
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2689

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 27.858095 99.171691 1.601954
0.003125 1.776589 188.602309
0.57743 27.858095 99.171691 1.601954
0.003125 1.107350 148.531382
0.71829 27.858095 99.171691 1.601954
0.003125 0.439498 113.101089
0.85914 27.858095 99.171691 1.601954
0.003125 0.292055 88.114539
1.00000 27.858095 99.171691 1.601954
0.003125 1.199354 68.175349

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -48.782363 -78.518535 -2.174929
-0.003649 -2.450103 -107.151132
0.57743 -48.782363 -78.518535 -2.174929
-0.003649 -1.537744 -76.663215
0.71829 -48.782363 -78.518535 -2.174929
-0.003649 -0.626614 -54.043857
0.85914 -48.782363 -78.518535 -2.174929
-0.003649 -0.243170 -35.636399
1.00000 -48.782363 -78.518535 -2.174929
-0.003649 -0.912156 -25.338678

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 3.430582 30.746520 0.800281
0.000268 0.893080 62.711631
0.57743 3.430582 30.746520 0.800281
0.000268 0.557417 50.072742
0.71829 3.430582 30.746520 0.800281
0.000268 0.221676 37.570716
0.85914 3.430582 30.746520 0.800281
0.000268 0.112272 25.298049
1.00000 3.430582 30.746520 0.800281
0.000268 0.480602 13.653194

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -18.172583 -3.852485 -0.876585
-0.000844 -0.621546 -12.914520
0.57743 -18.172583 -3.852485 -0.876585
-0.000844 -0.621546 -12.914301
0.71829 -18.172583 -3.852485 -0.876585
-0.000844 -0.253595 -12.040645
0.85914 -18.172583 -3.852485 -0.876585
-0.000844 -0.113652 -11.467234
1.00000 -18.172583 -3.852485 -0.876585
-0.000844 -0.449382 -11.531117

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 24.463160 71.311428 1.252735
0.000408 1.399273 124.455623
0.57743 24.463160 71.311428 1.252735
0.000408 0.874042 95.430813
0.71829 24.463160 71.311428 1.252735
0.000408 0.348774 67.563645
0.85914 24.463160 71.311428 1.252735
0.000408 0.228699 41.426146
1.00000 24.463160 71.311428 1.252735
0.000408 0.919996 18.744042

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -23.958433 -6.642056 -1.653929
-0.001694 -1.856512 -21.715947
0.57743 -23.958433 -6.642056 -1.653929
-0.001694 -1.162643 -20.651109
0.71829 -23.958433 -6.642056 -1.653929
-0.001694 -0.468285 -20.062994
0.85914 -23.958433 -6.642056 -1.653929
-0.001694 -0.177076 -23.834161
1.00000 -23.958433 -6.642056 -1.653929
-0.001694 -0.702594 -30.473016
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2690

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 17.191508 84.181360 1.535799
0.000264 1.710142 157.461612
0.57743 17.191508 84.181360 1.535799
0.000264 1.066098 123.048991
0.71829 17.191508 84.181360 1.535799
0.000264 0.422010 89.689439
0.85914 17.191508 84.181360 1.535799
0.000264 0.247914 60.521768
1.00000 17.191508 84.181360 1.535799
0.000264 1.049869 37.503732

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -37.281504 -27.225417 -1.911938
-0.001813 -2.157434 -45.096304
0.57743 -37.281504 -27.225417 -1.911938
-0.001813 -1.355098 -35.337353
0.71829 -37.281504 -27.225417 -1.911938
-0.001813 -0.552651 -26.363609
0.85914 -37.281504 -27.225417 -1.911938
-0.001813 -0.223401 -19.777290
1.00000 -37.281504 -27.225417 -1.911938
-0.001813 -0.867064 -23.283690

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 20.476795 100.236916 1.723547
0.003028 1.899737 199.062202
0.57743 20.476795 100.236916 1.723547
0.003028 1.179794 158.284287
0.71829 20.476795 100.236916 1.723547
0.003028 0.462381 122.746138
0.85914 20.476795 100.236916 1.723547
0.003028 0.276269 98.282773
1.00000 20.476795 100.236916 1.723547
0.003028 1.144596 79.408096

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -57.303719 -67.271024 -2.083890
-0.003994 -2.352412 -83.962663
0.57743 -57.303719 -67.271024 -2.083890
-0.003994 -1.477181 -57.663389
0.71829 -57.303719 -67.271024 -2.083890
-0.003994 -0.604551 -39.931380
0.85914 -57.303719 -67.271024 -2.083890
-0.003994 -0.271475 -27.063551
1.00000 -57.303719 -67.271024 -2.083890
-0.003994 -0.993407 -23.134698

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 30.459576 79.073452 0.931508
0.007620 1.014448 155.954223
0.57743 30.459576 79.073452 0.931508
0.007620 0.627390 123.337195
0.71829 30.459576 79.073452 0.931508
0.007620 0.246195 96.259247
0.85914 30.459576 79.073452 0.931508
0.007620 0.173259 86.411593
1.00000 30.459576 79.073452 0.931508
0.007620 0.667253 93.166272

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -41.224864 -125.623553 -1.207569
-0.006308 -1.360487 -131.467056
0.57743 -41.224864 -125.623553 -1.207569
-0.006308 -0.854020 -85.890793
0.71829 -41.224864 -125.623553 -1.207569
-0.006308 -0.347665 -54.616968
0.85914 -41.224864 -125.623553 -1.207569
-0.006308 -0.164652 -33.940393
1.00000 -41.224864 -125.623553 -1.207569
-0.006308 -0.554801 -30.201703
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2691

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 45.207596 100.236916 1.723547
0.007762 1.899737 199.062202
0.57743 45.207596 100.236916 1.723547
0.007762 1.179794 158.284287
0.71829 45.207596 100.236916 1.723547
0.007762 0.462381 122.746138
0.85914 45.207596 100.236916 1.723547
0.007762 0.332401 98.282773
1.00000 45.207596 100.236916 1.723547
0.007762 1.312819 98.936233

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -57.303719 -151.258815 -2.361186
-0.006500 -2.650144 -194.812357
0.57743 -57.303719 -151.258815 -2.361186
-0.006500 -1.659683 -132.729021
0.71829 -57.303719 -151.258815 -2.361186
-0.006500 -0.670340 -90.746122
0.85914 -57.303719 -151.258815 -2.361186
-0.006500 -0.271475 -57.811066
1.00000 -57.303719 -151.258815 -2.361186
-0.006500 -0.993407 -38.394537

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 45.207596 100.236916 1.723547
0.007762 1.899737 199.062202
0.57743 45.207596 100.236916 1.723547
0.007762 1.179794 158.284287
0.71829 45.207596 100.236916 1.723547
0.007762 0.462381 122.746138
0.85914 45.207596 100.236916 1.723547
0.007762 0.332401 98.282773
1.00000 45.207596 100.236916 1.723547
0.007762 1.312819 98.936233

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -57.303719 -151.258815 -2.361186
-0.006500 -2.650144 -194.812357
0.57743 -57.303719 -151.258815 -2.361186
-0.006500 -1.659683 -132.729021
0.71829 -57.303719 -151.258815 -2.361186
-0.006500 -0.670340 -90.746122
0.85914 -57.303719 -151.258815 -2.361186
-0.006500 -0.271475 -57.811066
1.00000 -57.303719 -151.258815 -2.361186
-0.006500 -0.993407 -38.394537

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 45.207596 100.236916 1.723547
0.007762 1.899737 199.062202
0.57743 45.207596 100.236916 1.723547
0.007762 1.179794 158.284287
0.71829 45.207596 100.236916 1.723547
0.007762 0.462381 122.746138
0.85914 45.207596 100.236916 1.723547
0.007762 0.332401 98.282773
1.00000 45.207596 100.236916 1.723547
0.007762 1.312819 98.936233

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -57.303719 -151.258815 -2.361186
-0.006500 -2.650144 -194.812357
0.57743 -57.303719 -151.258815 -2.361186
-0.006500 -1.659683 -132.729021
0.71829 -57.303719 -151.258815 -2.361186
-0.006500 -0.670340 -90.746122
0.85914 -57.303719 -151.258815 -2.361186
-0.006500 -0.271475 -57.811066
1.00000 -57.303719 -151.258815 -2.361186
-0.006500 -0.993407 -38.394537
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2692

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 247 ========== LENGTH = 2.977769

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 19.659891 11.630052 0.400750
0.001490 0.077308 3.177308
0.14086 19.659891 11.630052 0.400750
0.001490 0.059848 12.373846
0.28172 19.659891 11.630052 0.400750
0.001490 0.155460 30.633912
0.42257 19.659891 11.630052 0.400750
0.001490 0.376479 49.052856
0.56343 19.659891 11.630052 0.400750
0.001490 0.597537 67.500544

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.050463 -44.028720 -0.527032
-0.000440 -0.286742 -17.668425
0.14086 -5.050463 -44.028720 -0.527032
-0.000440 -0.065671 -22.118855
0.28172 -5.050463 -44.028720 -0.527032
-0.000440 -0.108286 -26.670632
0.42257 -5.050463 -44.028720 -0.527032
-0.000440 -0.276378 -31.288232
0.56343 -5.050463 -44.028720 -0.527032
-0.000440 -0.444466 -36.139338

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 21.350173 103.541413 0.613246
0.007591 0.344801 93.547782
0.14086 21.350173 103.541413 0.613246
0.007591 0.100300 77.852501
0.28172 21.350173 103.541413 0.613246
0.007591 0.254627 70.918991
0.42257 21.350173 103.541413 0.613246
0.007591 0.634423 89.309219
0.56343 21.350173 103.541413 0.613246
0.007591 1.013120 115.210361

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -34.640273 -64.341972 -0.902888
-0.006408 -0.531770 -14.055274
0.14086 -34.640273 -64.341972 -0.902888
-0.006408 -0.154440 -21.609747
0.28172 -34.640273 -64.341972 -0.902888
-0.006408 -0.170864 -32.933051
0.42257 -34.640273 -64.341972 -0.902888
-0.006408 -0.427539 -57.938857
0.56343 -34.640273 -64.341972 -0.902888
-0.006408 -0.684615 -100.893759

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.423345 101.527422 0.775933
0.005509 0.434440 75.233447
0.14086 20.423345 101.527422 0.775933
0.005509 0.117555 71.785476
0.28172 20.423345 101.527422 0.775933
0.005509 0.331236 78.592099
0.42257 20.423345 101.527422 0.775933
0.005509 0.829079 102.960695
0.56343 20.423345 101.527422 0.775933
0.005509 1.327014 132.473558

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -29.548770 -72.729969 -1.187180
-0.004672 -0.685222 -13.969741
0.14086 -29.548770 -72.729969 -1.187180
-0.004672 -0.188036 -30.937212
0.28172 -29.548770 -72.729969 -1.187180
-0.004672 -0.217130 -51.528633
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2693

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42257 -29.548770 -72.729969 -1.187180
-0.004672 -0.542305 -81.524056
0.56343 -29.548770 -72.729969 -1.187180
-0.004672 -0.867650 -123.728152

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 30.437636 102.438832 0.856368
0.004699 0.479569 65.788913
0.14086 30.437636 102.438832 0.856368
0.004699 0.127604 60.232393
0.28172 30.437636 102.438832 0.856368
0.004699 0.355520 66.571642
0.42257 30.437636 102.438832 0.856368
0.004699 0.892712 87.489258
0.56343 30.437636 102.438832 0.856368
0.004699 1.430034 112.693953

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -29.022316 -62.078064 -1.281149
-0.004549 -0.736455 -25.926738
0.14086 -29.022316 -62.078064 -1.281149
-0.004549 -0.199832 -43.952941
0.28172 -29.022316 -62.078064 -1.281149
-0.004549 -0.239513 -65.130017
0.42257 -29.022316 -62.078064 -1.281149
-0.004549 -0.598401 -94.178600
0.56343 -29.022316 -62.078064 -1.281149
-0.004549 -0.957496 -135.185504

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.376408 74.092374 0.251383
0.004872 0.136596 88.577448
0.14086 2.376408 74.092374 0.251383
0.004872 0.041961 73.704465
0.28172 2.376408 74.092374 0.251383
0.004872 0.113717 59.071796
0.42257 2.376408 74.092374 0.251383
0.004872 0.294372 65.273770
0.56343 2.376408 74.092374 0.251383
0.004872 0.475105 77.980287

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -31.500661 -32.428201 -0.430954
-0.004931 -0.273109 -1.275416
0.14086 -31.500661 -32.428201 -0.430954
-0.004931 -0.093712 -3.573571
0.28172 -31.500661 -32.428201 -0.430954
-0.004931 -0.075496 -8.092025
0.42257 -31.500661 -32.428201 -0.430954
-0.004931 -0.180405 -23.951405
0.56343 -31.500661 -32.428201 -0.430954
-0.004931 -0.285664 -54.790476

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.867119 97.726685 0.495924
0.004534 0.273498 83.962459
0.14086 13.867119 97.726685 0.495924
0.004534 0.075476 68.032015
0.28172 13.867119 97.726685 0.495924
0.004534 0.223514 55.997679
0.42257 13.867119 97.726685 0.495924
0.004534 0.577279 63.623936
0.56343 13.867119 97.726685 0.495924
0.004534 0.922144 77.032801

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -29.898429 -34.580958 -0.832998
-0.005121 -0.498778 -11.846285
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2694

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14086 -29.898429 -34.580958 -0.832998
-0.005121 -0.150481 -26.216319
0.28172 -29.898429 -34.580958 -0.832998
-0.005121 -0.143495 -41.526632
0.42257 -29.898429 -34.580958 -0.832998
-0.005121 -0.351060 -67.410382
0.56343 -29.898429 -34.580958 -0.832998
-0.005121 -0.558930 -107.475123

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.795447 113.652078 0.706983
0.004366 0.395223 75.267517
0.14086 20.795447 113.652078 0.706983
0.004366 0.105783 64.327659
0.28172 20.795447 113.652078 0.706983
0.004366 0.317034 68.048623
0.42257 20.795447 113.652078 0.706983
0.004366 0.801192 86.364056
0.56343 20.795447 113.652078 0.706983
0.004366 1.285440 109.010791

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -39.474336 -56.221727 -1.154566
-0.004047 -0.668192 -14.837501
0.14086 -39.474336 -56.221727 -1.154566
-0.004047 -0.184659 -27.916172
0.28172 -39.474336 -56.221727 -1.154566
-0.004047 -0.198562 -57.175439
0.42257 -39.474336 -56.221727 -1.154566
-0.004047 -0.494798 -93.917472
0.56343 -39.474336 -56.221727 -1.154566
-0.004047 -0.791222 -140.745368

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.985516 109.389727 0.821367
0.003872 0.459204 67.734593
0.14086 20.985516 109.389727 0.821367
0.003872 0.120581 53.679943
0.28172 20.985516 109.389727 0.821367
0.003872 0.339648 57.152500
0.42257 20.985516 109.389727 0.821367
0.003872 0.861457 72.983722
0.56343 20.985516 109.389727 0.821367
0.003872 1.383385 92.449079

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -38.341582 -48.276203 -1.244444
-0.004080 -0.718379 -21.426181
0.14086 -38.341582 -48.276203 -1.244444
-0.004080 -0.197050 -33.356137
0.28172 -38.341582 -48.276203 -1.244444
-0.004080 -0.230349 -58.884229
0.42257 -38.341582 -48.276203 -1.244444
-0.004080 -0.574662 -90.826648
0.56343 -38.341582 -48.276203 -1.244444
-0.004080 -0.919086 -136.099096

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.383502 20.165433 0.369792
0.000373 0.207124 9.966243
0.14086 2.383502 20.165433 0.369792
0.000373 0.051951 4.841081
0.28172 2.383502 20.165433 0.369792
0.000373 0.111606 3.532659
0.42257 2.383502 20.165433 0.369792
0.000373 0.287587 3.326177
0.56343 2.383502 20.165433 0.369792
0.000373 0.464364 3.536389
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2695

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.514243 -2.674195 -0.421479
-0.001080 -0.242816 -11.301973
0.14086 -9.514243 -2.674195 -0.421479
-0.001080 -0.065986 -11.753919
0.28172 -9.514243 -2.674195 -0.421479
-0.001080 -0.103084 -12.367113
0.42257 -9.514243 -2.674195 -0.421479
-0.001080 -0.258199 -16.168022
0.56343 -9.514243 -2.674195 -0.421479
-0.001080 -0.413306 -24.590712

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.044576 46.462126 0.596798
0.000599 0.334505 14.993890
0.14086 22.044576 46.462126 0.596798
0.000599 0.084762 4.817321
0.28172 22.044576 46.462126 0.596798
0.000599 0.208223 2.604650
0.42257 22.044576 46.462126 0.596798
0.000599 0.533673 3.907322
0.56343 22.044576 46.462126 0.596798
0.000599 0.859229 5.500383

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.598512 -4.452090 -0.776250
-0.001999 -0.444173 -30.201459
0.14086 -14.598512 -4.452090 -0.776250
-0.001999 -0.118726 -36.960494
0.28172 -14.598512 -4.452090 -0.776250
-0.001999 -0.166422 -44.482000
0.42257 -14.598512 -4.452090 -0.776250
-0.001999 -0.416616 -56.063347
0.56343 -14.598512 -4.452090 -0.776250
-0.001999 -0.666934 -74.131866

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.792049 60.192555 0.755793
0.000673 0.420442 32.501166
0.14086 12.792049 60.192555 0.755793
0.000673 0.104197 31.992351
0.28172 12.792049 60.192555 0.755793
0.000673 0.285111 40.858831
0.42257 12.792049 60.192555 0.755793
0.000673 0.732679 53.267074
0.56343 12.792049 60.192555 0.755793
0.000673 1.180391 66.073559

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -21.566874 -31.299837 -1.067500
-0.001842 -0.612207 -21.957259
0.14086 -21.566874 -31.299837 -1.067500
-0.001842 -0.164601 -35.586398
0.28172 -21.566874 -31.299837 -1.067500
-0.001842 -0.213871 -50.028671
0.42257 -21.566874 -31.299837 -1.067500
-0.001842 -0.530750 -68.331543
0.56343 -21.566874 -31.299837 -1.067500
-0.001842 -0.847711 -92.947773

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.498825 114.949137 0.818800
0.004112 0.456884 90.289175
0.14086 14.498825 114.949137 0.818800
0.004112 0.120411 57.116638
0.28172 14.498825 114.949137 0.818800
0.004112 0.327411 52.451791
0.42257 14.498825 114.949137 0.818800
0.004112 0.837067 63.865067
0.56343 14.498825 114.949137 0.818800
0.004112 1.346857 79.597837
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2696

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -43.655482 -39.629290 -1.215484
-0.004706 -0.708796 -20.592324
0.14086 -43.655482 -39.629290 -1.215484
-0.004706 -0.199739 -30.515536
0.28172 -43.655482 -39.629290 -1.215484
-0.004706 -0.230625 -52.285261
0.42257 -43.655482 -39.629290 -1.215484
-0.004706 -0.573745 -85.481177
0.56343 -43.655482 -39.629290 -1.215484
-0.004706 -0.917107 -132.938697

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 38.199105 12.446034 0.683373
0.001792 0.401749 4.512264
0.14086 38.199105 12.446034 0.683373
0.001792 0.115176 14.663465
0.28172 38.199105 12.446034 0.683373
0.001792 0.317733 39.096536
0.42257 38.199105 12.446034 0.683373
0.001792 0.776145 67.208378
0.56343 38.199105 12.446034 0.683373
0.001792 1.234789 95.876489

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.894099 -70.259934 -1.093606
-0.000415 -0.160265 -33.410782
0.14086 -6.894099 -70.259934 -1.093606
-0.000415 -0.142015 -22.507108
0.28172 -6.894099 -70.259934 -1.093606
-0.000415 -0.170717 -22.819140
0.42257 -6.894099 -70.259934 -1.093606
-0.000415 -0.457378 -26.738234
0.56343 -6.894099 -70.259934 -1.093606
-0.000415 -0.744189 -31.157912

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 38.638396 100.303500 1.066399
0.008279 0.623773 99.008891
0.14086 38.638396 100.303500 1.066399
0.008279 0.185426 82.744797
0.28172 38.638396 100.303500 1.066399
0.008279 0.466700 82.451828
0.42257 38.638396 100.303500 1.066399
0.008279 1.168537 108.758383
0.56343 38.638396 100.303500 1.066399
0.008279 1.873137 144.659715

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -44.900394 -90.952563 -1.684052
-0.006460 -0.976449 -30.514337
0.14086 -44.900394 -90.952563 -1.684052
-0.006460 -0.273584 -22.164347
0.28172 -44.900394 -90.952563 -1.684052
-0.006460 -0.284525 -27.910669
0.42257 -44.900394 -90.952563 -1.684052
-0.006460 -0.728915 -52.126827
0.56343 -44.900394 -90.952563 -1.684052
-0.006460 -1.176365 -92.140290

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 37.955847 109.851613 1.350600
0.006222 0.775007 84.436946
0.14086 37.955847 109.851613 1.350600
0.006222 0.214692 75.717947
0.28172 37.955847 109.851613 1.350600
0.006222 0.604397 83.575639
0.42257 37.955847 109.851613 1.350600
0.006222 1.517035 112.727405
0.56343 37.955847 109.851613 1.350600
0.006222 2.431867 149.372229
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2697

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -43.316562 -92.403061 -2.183446
-0.004884 -1.247274 -29.533087
0.14086 -43.316562 -92.403061 -2.183446
-0.004884 -0.333705 -32.689512
0.28172 -43.316562 -92.403061 -2.183446
-0.004884 -0.368133 -49.636993
0.42257 -43.316562 -92.403061 -2.183446
-0.004884 -0.932209 -82.046051
0.56343 -43.316562 -92.403061 -2.183446
-0.004884 -1.498737 -126.156494

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 45.184459 122.025951 1.552612
0.005273 0.886811 74.211295
0.14086 45.184459 122.025951 1.552612
0.005273 0.241230 63.569796
0.28172 45.184459 122.025951 1.552612
0.005273 0.678873 70.800503
0.42257 45.184459 122.025951 1.552612
0.005273 1.701595 95.812986
0.56343 45.184459 122.025951 1.552612
0.005273 2.726249 127.006061

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -42.550679 -78.669551 -2.444615
-0.004747 -1.388183 -38.362212
0.14086 -42.550679 -78.669551 -2.444615
-0.004747 -0.364642 -49.857244
0.28172 -42.550679 -78.669551 -2.444615
-0.004747 -0.424628 -75.787663
0.42257 -42.550679 -78.669551 -2.444615
-0.004747 -1.073675 -114.585378
0.56343 -42.550679 -78.669551 -2.444615
-0.004747 -1.724840 -163.097529

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.388410 66.560103 0.394155
0.004515 0.228949 84.752595
0.14086 3.388410 66.560103 0.394155
0.004515 0.062524 71.028181
0.28172 3.388410 66.560103 0.394155
0.004515 0.161305 58.717304
0.42257 3.388410 66.560103 0.394155
0.004515 0.423678 62.890147
0.56343 3.388410 66.560103 0.394155
0.004515 0.688269 73.594975

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -42.044005 -30.341124 -0.633741
-0.004199 -0.392249 -1.707882
0.14086 -42.044005 -30.341124 -0.633741
-0.004199 -0.129259 -3.754127
0.28172 -42.044005 -30.341124 -0.633741
-0.004199 -0.121215 -8.007328
0.42257 -42.044005 -30.341124 -0.633741
-0.004199 -0.284074 -23.098196
0.56343 -42.044005 -30.341124 -0.633741
-0.004199 -0.449146 -49.091343

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.792434 107.038730 0.871183
0.004234 0.489545 82.813973
0.14086 15.792434 107.038730 0.871183
0.004234 0.130208 65.273726
0.28172 15.792434 107.038730 0.871183
0.004234 0.385669 51.568096
0.42257 15.792434 107.038730 0.871183
0.004234 0.981719 55.985296
0.56343 15.792434 107.038730 0.871183
0.004234 1.580093 67.007915
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2698

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -40.922937 -29.978975 -1.428695
-0.004525 -0.831736 -12.452254
0.14086 -40.922937 -29.978975 -1.428695
-0.004525 -0.234921 -30.146317
0.28172 -40.922937 -29.978975 -1.428695
-0.004525 -0.253253 -50.239596
0.42257 -40.922937 -29.978975 -1.428695
-0.004525 -0.615954 -82.750522
0.56343 -40.922937 -29.978975 -1.428695
-0.004525 -0.981123 -126.076040

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 27.966361 117.440875 1.279040
0.004128 0.723006 74.204465
0.14086 27.966361 117.440875 1.279040
0.004128 0.190767 63.600688
0.28172 27.966361 117.440875 1.279040
0.004128 0.565282 71.663902
0.42257 27.966361 117.440875 1.279040
0.004128 1.428594 92.918490
0.56343 27.966361 117.440875 1.279040
0.004128 2.293870 118.855558

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -49.815026 -66.029162 -2.064316
-0.003389 -1.179236 -19.627317
0.14086 -49.815026 -66.029162 -2.064316
-0.003389 -0.315686 -31.563575
0.28172 -49.815026 -66.029162 -2.064316
-0.003389 -0.357895 -62.339324
0.42257 -49.815026 -66.029162 -2.064316
-0.003389 -0.892284 -102.511564
0.56343 -49.815026 -66.029162 -2.064316
-0.003389 -1.428788 -150.053930

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 27.836940 122.373979 1.545111
0.003647 0.870197 68.219332
0.14086 27.836940 122.373979 1.545111
0.003647 0.225688 53.206411
0.28172 27.836940 122.373979 1.545111
0.003647 0.645833 60.443802
0.42257 27.836940 122.373979 1.545111
0.003647 1.633822 78.886101
0.56343 27.836940 122.373979 1.545111
0.003647 2.623348 101.230507

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -50.047622 -56.824167 -2.360048
-0.003577 -1.343748 -25.311673
0.14086 -50.047622 -56.824167 -2.360048
-0.003577 -0.354936 -38.701851
0.28172 -50.047622 -56.824167 -2.360048
-0.003577 -0.432315 -72.627269
0.42257 -50.047622 -56.824167 -2.360048
-0.003577 -1.076735 -114.550026
0.56343 -50.047622 -56.824167 -2.360048
-0.003577 -1.726823 -164.231868

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.432878 30.795618 0.763227
0.000330 0.423914 13.664151
0.14086 3.432878 30.795618 0.763227
0.000330 0.103719 5.160906
0.28172 3.432878 30.795618 0.763227
0.000330 0.260473 3.969954
0.42257 3.432878 30.795618 0.763227
0.000330 0.666137 4.817509
0.56343 3.432878 30.795618 0.763227
0.000330 1.071818 5.927307
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2699

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.208521 -3.807417 -0.966838
-0.001188 -0.549630 -11.532739
0.14086 -18.208521 -3.807417 -0.966838
-0.001188 -0.143550 -13.474026
0.28172 -18.208521 -3.807417 -0.966838
-0.001188 -0.216091 -21.247503
0.42257 -18.208521 -3.807417 -0.966838
-0.001188 -0.536346 -32.085648
0.56343 -18.208521 -3.807417 -0.966838
-0.001188 -0.856523 -44.753494

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 24.452330 72.858028 1.230468
0.000490 0.689587 18.766498
0.14086 24.452330 72.858028 1.230468
0.000490 0.174680 5.209409
0.28172 24.452330 72.858028 1.230468
0.000490 0.470996 3.781102
0.42257 24.452330 72.858028 1.230468
0.000490 1.188460 5.109044
0.56343 24.452330 72.858028 1.230468
0.000490 1.905489 7.166652

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -24.088624 -5.431728 -1.709497
-0.002048 -0.962629 -30.470570
0.14086 -24.088624 -5.431728 -1.709497
-0.002048 -0.245833 -45.135186
0.28172 -24.088624 -5.431728 -1.709497
-0.002048 -0.344370 -69.356645
0.42257 -24.088624 -5.431728 -1.709497
-0.002048 -0.742907 -96.600093
0.56343 -24.088624 -5.431728 -1.709497
-0.002048 -1.375946 -126.465176

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 17.189898 84.325282 1.434291
0.000335 0.795835 37.532245
0.14086 17.189898 84.325282 1.434291
0.000335 0.194076 31.442851
0.28172 17.189898 84.325282 1.434291
0.000335 0.592492 37.586492
0.42257 17.189898 84.325282 1.434291
0.000335 1.447714 47.519594
0.56343 17.189898 84.325282 1.434291
0.000335 2.325709 58.280534

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -37.360014 -27.611460 -2.092913
-0.001676 -1.183769 -23.277174
0.14086 -37.360014 -27.611460 -2.092913
-0.001676 -0.305798 -41.876226
0.28172 -37.360014 -27.611460 -2.092913
-0.001676 -0.409198 -69.615060
0.42257 -37.360014 -27.611460 -2.092913
-0.001676 -1.010496 -101.388348
0.56343 -37.360014 -27.611460 -2.092913
-0.001676 -1.611909 -135.804919

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.465300 125.397615 1.567594
0.003484 0.877228 79.459121
0.14086 20.465300 125.397615 1.567594
0.003484 0.223679 57.488735
0.28172 20.465300 125.397615 1.567594
0.003484 0.627298 56.014837
0.42257 20.465300 125.397615 1.567594
0.003484 1.597103 68.360408
0.56343 20.465300 125.397615 1.567594
0.003484 2.566903 85.188784
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2700

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -58.687762 -43.809306 -2.316849
-0.003946 -1.327183 -23.116431
0.14086 -58.687762 -43.809306 -2.316849
-0.003946 -0.357063 -36.040739
0.28172 -58.687762 -43.809306 -2.316849
-0.003946 -0.445451 -67.826206
0.42257 -58.687762 -43.809306 -2.316849
-0.003946 -1.101266 -110.482627
0.56343 -58.687762 -43.809306 -2.316849
-0.003946 -1.758627 -161.561275

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 30.437636 114.949137 0.856368
0.007591 0.479569 93.547782
0.14086 30.437636 114.949137 0.856368
0.007591 0.127604 77.852501
0.28172 30.437636 114.949137 0.856368
0.007591 0.355520 78.592099
0.42257 30.437636 114.949137 0.856368
0.007591 0.892712 102.960695
0.56343 30.437636 114.949137 0.856368
0.007591 1.430034 132.473558

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -43.655482 -72.729969 -1.281149
-0.006408 -0.756455 -30.291459
0.14086 -43.655482 -72.729969 -1.281149
-0.006408 -0.199832 -43.952941
0.28172 -43.655482 -72.729969 -1.281149
-0.006408 -0.239513 -65.130017
0.42257 -43.655482 -72.729969 -1.281149
-0.006408 -0.598401 -94.178600
0.56343 -43.655482 -72.729969 -1.281149
-0.006408 -0.957496 -140.745368

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 45.184459 125.397615 1.567594
0.008279 0.886811 99.008891
0.14086 45.184459 125.397615 1.567594
0.008279 0.241230 82.744797
0.28172 45.184459 125.397615 1.567594
0.008279 0.678873 83.575639
0.42257 45.184459 125.397615 1.567594
0.008279 1.701595 112.727405
0.56343 45.184459 125.397615 1.567594
0.008279 2.726249 149.372229

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -58.687762 -92.403061 -2.444615
-0.006460 -1.388183 -38.362212
0.14086 -58.687762 -92.403061 -2.444615
-0.006460 -0.364642 -49.857244
0.28172 -58.687762 -92.403061 -2.444615
-0.006460 -0.445451 -75.787663
0.42257 -58.687762 -92.403061 -2.444615
-0.006460 -1.101266 -114.585378
0.56343 -58.687762 -92.403061 -2.444615
-0.006460 -1.758627 -164.231868

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 45.184459 125.397615 1.567594
0.008279 0.886811 99.008891
0.14086 45.184459 125.397615 1.567594
0.008279 0.241230 82.744797
0.28172 45.184459 125.397615 1.567594
0.008279 0.678873 83.575639
0.42257 45.184459 125.397615 1.567594
0.008279 1.701595 112.727405
0.56343 45.184459 125.397615 1.567594
0.008279 2.726249 149.372229
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2701

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -58.687762 -92.403061 -2.444615
-0.006460 -1.388183 -38.362212
0.14086 -58.687762 -92.403061 -2.444615
-0.006460 -0.364642 -49.857244
0.28172 -58.687762 -92.403061 -2.444615
-0.006460 -0.445451 -75.787663
0.42257 -58.687762 -92.403061 -2.444615
-0.006460 -1.101266 -114.585378
0.56343 -58.687762 -92.403061 -2.444615
-0.006460 -1.758627 -164.231868

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 45.184459 125.397615 1.567594
0.008279 0.886811 99.008891
0.14086 45.184459 125.397615 1.567594
0.008279 0.241230 82.744797
0.28172 45.184459 125.397615 1.567594
0.008279 0.678873 83.575639
0.42257 45.184459 125.397615 1.567594
0.008279 1.701595 112.727405
0.56343 45.184459 125.397615 1.567594
0.008279 2.726249 149.372229

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -58.687762 -92.403061 -2.444615
-0.006460 -1.388183 -38.362212
0.14086 -58.687762 -92.403061 -2.444615
-0.006460 -0.364642 -49.857244
0.28172 -58.687762 -92.403061 -2.444615
-0.006460 -0.445451 -75.787663
0.42257 -58.687762 -92.403061 -2.444615
-0.006460 -1.101266 -114.585378
0.56343 -58.687762 -92.403061 -2.444615
-0.006460 -1.758627 -164.231868

ELEM 248 ========== LENGTH = 2.976946

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 7.830640 44.759864 0.378140
0.001576 0.424082 53.649782
0.57752 7.830640 44.759864 0.378140
0.001576 0.265553 35.063967
0.71834 7.830640 44.759864 0.378140
0.001576 0.107010 16.532166
0.85917 7.830640 44.759864 0.378140
0.001576 0.093714 3.259399
1.00000 7.830640 44.759864 0.378140
0.001576 0.356135 3.157667

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -4.782905 -27.929573 -0.625938
-1.61E-05 -0.693621 -53.107821
0.57752 -4.782905 -27.929573 -0.625938
-1.61E-05 -0.431205 -41.462457
0.71834 -4.782905 -27.929573 -0.625938
-1.61E-05 -0.168792 -29.983296
0.85917 -4.782905 -27.929573 -0.625938
-1.61E-05 -0.051522 -19.088043
1.00000 -4.782905 -27.929573 -0.625938
-1.61E-05 -0.210062 -23.067472

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 8.957259 72.360624 0.655664
0.008043 0.722830 127.437703
0.57752 8.957259 72.360624 0.655664
0.008043 0.447976 99.219784
0.71834 8.957259 72.360624 0.655664
0.008043 0.173182 83.049895
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2702

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85917 8.957259 72.360624 0.655664
0.008043 0.161239 86.711910
1.00000 8.957259 72.360624 0.655664
0.008043 0.564032 107.533791

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -17.815191 -113.377690 -0.965566
-0.006306 -1.076471 -95.809106
0.57752 -17.815191 -113.377690 -0.965566
-0.006306 -0.671685 -55.285822
0.71834 -17.815191 -113.377690 -0.965566
-0.006306 -0.266974 -36.924790
0.85917 -17.815191 -113.377690 -0.965566
-0.006306 -0.126511 -23.413756
1.00000 -17.815191 -113.377690 -0.965566
-0.006306 -0.397919 -14.506654

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 10.061707 76.586515 0.725142
0.005857 0.803711 129.283358
0.57752 10.061707 76.586515 0.725142
0.005857 0.499721 102.680251
0.71834 10.061707 76.586515 0.725142
0.005857 0.195683 84.603643
0.85917 10.061707 76.586515 0.725142
0.005857 0.182240 80.912200
1.00000 10.061707 76.586515 0.725142
0.005857 0.684733 96.502251

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -15.526961 -126.620963 -1.201703
-0.004861 -1.344961 -130.406531
0.57752 -15.526961 -126.620963 -1.201703
-0.004861 -0.841167 -82.262252
0.71834 -15.526961 -126.620963 -1.201703
-0.004861 -0.337519 -49.309715
0.85917 -15.526961 -126.620963 -1.201703
-0.004861 -0.125087 -21.064955
1.00000 -15.526961 -126.620963 -1.201703
-0.004861 -0.426794 -15.219244

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 13.924539 74.917228 0.813274
0.004866 0.902783 129.240422
0.57752 13.924539 74.917228 0.813274
0.004866 0.561852 102.428599
0.71834 13.924539 74.917228 0.813274
0.004866 0.220863 82.745207
0.85917 13.924539 74.917228 0.813274
0.004866 0.187032 75.142551
1.00000 13.924539 74.917228 0.813274
0.004866 0.709866 83.904190

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -14.889980 -111.383372 -1.258107
-0.004581 -1.411946 -134.162334
0.57752 -14.889980 -111.383372 -1.258107
-0.004581 -0.884503 -92.028317
0.71834 -14.889980 -111.383372 -1.258107
-0.004581 -0.357176 -62.720708
0.85917 -14.889980 -111.383372 -1.258107
-0.004581 -0.133944 -37.998443
1.00000 -14.889980 -111.383372 -1.258107
-0.004581 -0.473030 -31.534708

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 1.345561 12.705525 0.291163
0.005339 0.213813 41.279813
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2703

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57752 1.345561 12.705525 0.291163
0.005339 0.191780 39.237980
0.71834 1.345561 12.705525 0.291163
0.005339 0.069877 47.737448
0.85917 1.345561 12.705525 0.291163
0.005339 0.066462 73.820063
1.00000 1.345561 12.705525 0.291163
0.005339 0.220461 109.456645

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -11.156320 -97.227638 -0.371225
-0.005508 -0.411968 -97.279344
0.57752 -11.156320 -97.227638 -0.371225
-0.005508 -0.264378 -23.048968
0.71834 -11.156320 -97.227638 -0.371225
-0.005508 -0.108842 -6.717917
0.85917 -11.156320 -97.227638 -0.371225
-0.005508 -0.073569 -2.151093
1.00000 -11.156320 -97.227638 -0.371225
-0.005508 -0.192292 -1.410318

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 7.529236 26.656129 0.471045
0.004902 0.516124 57.321683
0.57752 7.529236 26.656129 0.471045
0.004902 0.318665 52.191871
0.71834 7.529236 26.656129 0.471045
0.004902 0.121164 56.855569
0.85917 7.529236 26.656129 0.471045
0.004902 0.113917 77.985110
1.00000 7.529236 26.656129 0.471045
0.004902 0.418879 108.535086

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -10.359032 -116.903398 -0.736370
-0.005797 -0.832569 -100.684982
0.57752 -10.359032 -116.903398 -0.736370
-0.005797 -0.523858 -57.605877
0.71834 -10.359032 -116.903398 -0.736370
-0.005797 -0.215297 -32.066303
0.85917 -10.359032 -116.903398 -0.736370
-0.005797 -0.095463 -12.499471
1.00000 -10.359032 -116.903398 -0.736370
-0.005797 -0.290333 -14.093374

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 9.877334 80.298415 0.656370
0.004409 0.727144 158.954699
0.57752 9.877334 80.298415 0.656370
0.004409 0.451970 130.579644
0.71834 9.877334 80.298415 0.656370
0.004409 0.176727 109.303981
0.85917 9.877334 80.298415 0.656370
0.004409 0.163334 100.199598
1.00000 9.877334 80.298415 0.656370
0.004409 0.624693 99.840835

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -17.171676 -112.645653 -1.107807
-0.004297 -1.244811 -119.919555
0.57752 -17.171676 -112.645653 -1.107807
-0.004297 -0.780380 -77.123640
0.71834 -17.171676 -112.645653 -1.107807
-0.004297 -0.316077 -46.991955
0.85917 -17.171676 -112.645653 -1.107807
-0.004297 -0.111829 -22.777932
1.00000 -17.171676 -112.645653 -1.107807
-0.004297 -0.385250 -17.882367
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2704

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 10.555772 77.521296 0.775411
0.003689 0.860913 155.778278
0.57752 10.555772 77.521296 0.775411
0.003689 0.535848 127.723700
0.71834 10.555772 77.521296 0.775411
0.003689 0.210684 105.609589
0.85917 10.555772 77.521296 0.775411
0.003689 0.169520 93.634963
1.00000 10.555772 77.521296 0.775411
0.003689 0.653210 88.835766

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -16.712886 -97.434807 -1.158897
-0.004133 -1.303821 -122.861175
0.57752 -16.712886 -97.434807 -1.158897
-0.004133 -0.818818 -85.816929
0.71834 -16.712886 -97.434807 -1.158897
-0.004133 -0.333936 -59.420382
0.85917 -16.712886 -97.434807 -1.158897
-0.004133 -0.125533 -37.662881
1.00000 -16.712886 -97.434807 -1.158897
-0.004133 -0.449197 -32.512465

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 1.544237 15.955256 0.363023
7.07E-06 0.405295 37.439118
0.57752 1.544237 15.955256 0.363023
7.07E-06 0.253102 30.773537
0.71834 1.544237 15.955256 0.363023
7.07E-06 0.100900 24.141545
0.85917 1.544237 15.955256 0.363023
7.07E-06 0.054459 17.596283
1.00000 1.544237 15.955256 0.363023
7.07E-06 0.215321 11.240777

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -4.123135 -4.817475 -0.384019
-0.000834 -0.428681 -33.829402
0.57752 -4.123135 -4.817475 -0.384019
-0.000834 -0.267686 -31.884821
0.71834 -4.123135 -4.817475 -0.384019
-0.000834 -0.106691 -30.010942
0.85917 -4.123135 -4.817475 -0.384019
-0.000834 -0.054252 -28.154986
1.00000 -4.123135 -4.817475 -0.384019
-0.000834 -0.203498 -26.334615

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 10.338969 29.393630 0.579436
0.000203 0.646076 60.147214
0.57752 10.338969 29.393630 0.579436
0.000203 0.403146 48.055611
0.71834 10.338969 29.393630 0.579436
0.000203 0.160204 36.584610
0.85917 10.338969 29.393630 0.579436
0.000203 0.099800 26.720783
1.00000 10.338969 29.393630 0.579436
0.000203 0.389224 17.625287

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -6.312624 -19.057461 -0.699208
-0.001650 -0.784007 -68.374622
0.57752 -6.312624 -19.057461 -0.699208
-0.001650 -0.490876 -61.395289
0.71834 -6.312624 -19.057461 -0.699208
-0.001650 -0.197737 -55.509978
0.85917 -6.312624 -19.057461 -0.699208
-0.001650 -0.083365 -50.304364
1.00000 -6.312624 -19.057461 -0.699208
-0.001650 -0.326290 -45.657925
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2705

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 7.933615 34.873834 0.687027
0.000322 0.763876 71.909969
0.57752 7.933615 34.873834 0.687027
0.000322 0.475849 61.943821
0.71834 7.933615 34.873834 0.687027
0.000322 0.187786 53.118162
0.85917 7.933615 34.873834 0.687027
0.000322 0.128868 47.102329
1.00000 7.933615 34.873834 0.687027
0.000322 0.523413 50.068375

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -8.332708 -66.844923 -0.945789
-0.002043 -1.063722 -110.023186
0.57752 -8.332708 -66.844923 -0.945789
-0.002043 -0.667216 -83.024799
0.71834 -8.332708 -66.844923 -0.945789
-0.002043 -0.270801 -57.026189
0.85917 -8.332708 -66.844923 -0.945789
-0.002043 -0.101358 -38.996835
1.00000 -8.332708 -66.844923 -0.945789
-0.002043 -0.389370 -39.116553

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	8.488140	70.067764	0.782474
0.003873	0.867568	151.718189	
0.57752	8.488140	70.067764	0.782474
0.003873	0.539543	126.909625	
0.71834	8.488140	70.067764	0.782474
0.003873	0.211483	108.990791	
0.85917	8.488140	70.067764	0.782474
0.003873	0.163656	102.726500	
1.00000	8.488140	70.067764	0.782474
0.003873	0.627598	103.624824	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-17.262523	-97.328958	-1.112638
-0.004813	-1.249873	-118.953634	
0.57752	-17.262523	-97.328958	-1.112638
-0.004813	-0.783420	-82.446012	
0.71834	-17.262523	-97.328958	-1.112638
-0.004813	-0.317074	-58.338816	
0.85917	-17.262523	-97.328958	-1.112638
-0.004813	-0.134458	-38.690917	
1.00000	-17.262523	-97.328958	-1.112638
-0.004813	-0.456165	-35.593494	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	14.123761	39.295249	0.462720
0.001707	0.522053	48.448787	
0.57752	14.123761	39.295249	0.462720
0.001707	0.328436	32.295580	
0.71834	14.123761	39.295249	0.462720
0.001707	0.135497	16.474846	
0.85917	14.123761	39.295249	0.462720
0.001707	0.188530	4.825192	
1.00000	14.123761	39.295249	0.462720
0.001707	0.702465	4.286829	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-5.565136	-38.803823	-1.227288
-1.19E-05	-1.358343	-83.284669	
0.57752	-5.565136	-38.803823	-1.227288
-1.19E-05	-0.844242	-67.330667	
0.71834	-5.565136	-38.803823	-1.227288
-1.19E-05	-0.330934	-51.712111	
0.85917	-5.565136	-38.803823	-1.227288
-1.19E-05	-0.062371	-38.487986	
1.00000	-5.565136	-38.803823	-1.227288
-1.19E-05	-0.255609	-37.039516	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2706

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	15.815698	63.995323	0.910870
0.008124	1.007480	120.011498	
0.57752	15.815698	63.995323	0.910870
0.008124	0.625754	95.829403	
0.71834	15.815698	63.995323	0.910870
0.008124	0.247631	84.816500	
0.85917	15.815698	63.995323	0.910870
0.008124	0.26911	92.650010	
1.00000	15.815698	63.995323	0.910870
0.008124	0.965589	113.783595	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-19.834629	-122.439899	-1.675490
-0.006290	-1.865258	-131.499264	
0.57752	-19.834629	-122.439899	-1.675490
-0.006290	-1.163039	-82.501547	
0.71834	-19.834629	-122.439899	-1.675490
-0.006290	-0.464240	-58.684171	
0.85917	-19.834629	-122.439899	-1.675490
-0.006290	-0.160606	-40.319307	
1.00000	-19.834629	-122.439899	-1.675490
-0.006290	-0.527613	-30.644963	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	16.906373	71.492747	1.102599
0.006111	1.224283	134.029812	
0.57752	16.906373	71.492747	1.102599
0.006111	0.762263	107.892505	
0.71834	16.906373	71.492747	1.102599
0.006111	0.300226	91.474403	
0.85917	16.906373	71.492747	1.102599
0.006111	0.313500	89.849241	
1.00000	16.906373	71.492747	1.102599
0.006111	1.189802	108.019830	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-18.728511	-129.491547	-2.100216
-0.004978	-2.345764	-152.471186	
0.57752	-18.728511	-129.491547	-2.100216
-0.004978	-1.465159	-100.235410	
0.71834	-18.728511	-129.491547	-2.100216
-0.004978	-0.587082	-66.171888	
0.85917	-18.728511	-129.491547	-2.100216
-0.004978	-0.179410	-36.564603	
1.00000	-18.728511	-129.491547	-2.100216
-0.004978	-0.630103	-29.898082	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	19.980982	74.172108	1.283082
0.005078	1.426663	139.069860	
0.57752	19.980982	74.172108	1.283082
0.005078	0.888964	111.264047	
0.71834	19.980982	74.172108	1.283082
0.005078	0.353392	91.609015	
0.85917	19.980982	74.172108	1.283082
0.005078	0.346041	84.504935	
1.00000	19.980982	74.172108	1.283082
0.005078	1.330241	94.248399	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-18.202640	-113.529544	-2.358230
-0.004713	-2.635203	-152.471186	
0.57752	-18.202640	-113.529544	-2.358230
-0.004713	-1.646350	-106.691408	
0.71834	-18.202640	-113.529544	-2.358230
-0.004713	-0.659393	-76.251300	
0.85917	-18.202640	-113.529544	-2.358230
-0.004713	-0.200955	-50.336129	
1.00000	-18.202640	-113.529544	-2.358230
-0.004713	-0.729487	-43.807092	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2707

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	1.928206	13.224306	0.467899
0.004453	0.503737	48.085891	
0.57752	1.928206	13.224306	0.467899
0.004453	0.307601	45.624461	
0.71834	1.928206	13.224306	0.467899
0.004453	0.113923	53.106576	
0.85917	1.928206	13.224306	0.467899
0.004453	0.079299	77.053840	
1.00000	1.928206	13.224306	0.467899
0.004453	0.281859	106.596048	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-13.729397	-84.581672	-0.486352
-0.004615	-0.547737	-55.736680	
0.57752	-13.729397	-84.581672	-0.486352
-0.004615	-0.343911	-22.404798	
0.71834	-13.729397	-84.581672	-0.486352
-0.004615	-0.142409	-7.261451	
0.85917	-13.729397	-84.581672	-0.486352
-0.004615	0.098613	-2.719511	
1.00000	-13.729397	-84.581672	-0.486352
-0.004615	-0.286629	-2.061023	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	8.645200	31.545597	0.814201
0.004183	0.893011	77.421586	
0.57752	8.645200	31.545597	0.814201
0.004183	0.551867	68.194484	
0.71834	8.645200	31.545597	0.814201
0.004183	0.213022	68.345748	
0.85917	8.645200	31.545597	0.814201
0.004183	0.184238	83.373395	
1.00000	8.645200	31.545597	0.814201
0.004183	0.708386	109.648036	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-13.170525	-100.817077	-1.254687
-0.005051	-1.407627	-91.619064	
0.57752	-13.170525	-100.817077	-1.254687
-0.005051	-0.881414	-51.402660	
0.71834	-13.170525	-100.817077	-1.254687
-0.005051	-0.357301	-28.337740	
0.85917	-13.170525	-100.817077	-1.254687
-0.005051	-0.143983	-12.373229	
1.00000	-13.170525	-100.817077	-1.254687
-0.005051	-0.478486	-13.904810	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	13.256925	79.153757	1.107748
0.003733	1.227372	169.225194	
0.57752	13.256925	79.153757	1.107748
0.003733	0.763257	139.377699	
0.71834	13.256925	79.153757	1.107748
0.003733	0.300511	115.931140	
0.85917	13.256925	79.153757	1.107748
0.003733	0.270666	103.356721	
1.00000	13.256925	79.153757	1.107748
0.003733	1.068542	101.385373	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-20.153666	-103.931198	-1.907170
-0.003515	-2.137163	-123.828673	
0.57752	-20.153666	-103.931198	-1.907170
-0.003515	-1.337385	-81.878311	
0.71834	-20.153666	-103.931198	-1.907170
-0.003515	-0.539223	-51.504098	
0.85917	-20.153666	-103.931198	-1.907170
-0.003515	-0.174268	-27.430379	
1.00000	-20.153666	-103.931198	-1.907170
-0.003515	-0.633455	-19.765704	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2708

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	13.585197	80.465324	1.347283
0.003128	1.495783	171.236615	
0.57752	13.585197	80.465324	1.347283
0.003128	0.931216	140.442600	
0.71834	13.585197	80.465324	1.347283
0.003128	0.367780	115.648566	
0.85917	13.585197	80.465324	1.347283
0.003128	0.301758	98.824908	
1.00000	13.585197	80.465324	1.347283
0.003128	1.208649	91.751870	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-20.275162	-90.577488	-2.163564
-0.003521	-2.426650	-127.570543	
0.57752	-20.275162	-90.577488	-2.163564
-0.003521	-1.519710	-91.093694	
0.71834	-20.275162	-90.577488	-2.163564
-0.003521	-0.613774	-64.416987	
0.85917	-20.275162	-90.577488	-2.163564
-0.003521	-0.205657	-42.813076	
1.00000	-20.275162	-90.577488	-2.163564
-0.003521	-0.766119	-35.537376	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	2.078042	21.777937	0.705087
4.16E-06	0.784810	48.419887	
0.57752	2.078042	21.777937	0.705087
4.16E-06	0.489186	39.628516	
0.71834	2.078042	21.777937	0.705087
4.16E-06	0.193428	31.036366	
0.85917	2.078042	21.777937	0.705087
4.16E-06	0.110756	22.800896	
1.00000	2.078042	21.777937	0.705087
4.16E-06	0.466554	14.705773	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-7.257391	-6.045234	-0.847360
-0.000901	-0.953675	-36.870069	
0.57752	-7.257391	-6.045234	-0.847360
-0.000901	-0.598369	-34.704131	
0.71834	-7.257391	-6.045234	-0.847360
-0.000901	-0.242529	-32.766103	
0.85917	-7.257391	-6.045234	-0.847360
-0.000901	-0.101583	-31.187929	
1.00000	-7.257391	-6.045234	-0.847360
-0.000901	-0.397404	-29.748140	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	11.461637	39.555295	1.089091
0.000130	1.213013	79.439010	
0.57752	11.461637	39.555295	1.089091
0.000130	0.756460	63.425793	
0.71834	11.461637	39.555295	1.089091
0.000130	0.299642	47.986024	
0.85917	11.461637	39.555295	1.089091
0.000130	0.218320	33.944777	
1.00000	11.461637	39.555295	1.089091
0.000130	0.886885	21.140846	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-9.736416	-18.961766	-1.595891
-0.001698	-1.788378	-69.932992	
0.57752	-9.736416	-18.961766	-1.595891
-0.001698	-1.119081	-62.669131	
0.71834	-9.736416	-18.961766	-1.595891
-0.001698	-0.449307	-56.590512	
0.85917	-9.736416	-18.961766	-1.595891
-0.001698	-0.156743	-52.215476	
1.00000	-9.736416	-18.961766	-1.595891
-0.001698	-0.613436	-49.202684	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2709

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	9.263607	44.696185	1.270578
6.05E-06	1.411141	98.658096	
0.57752	9.263607	44.696185	1.270578
6.05E-06	0.878729	82.675793	
0.71834	9.263607	44.696185	1.270578
6.05E-06	0.345918	67.814830	
0.85917	9.263607	44.696185	1.270578
6.05E-06	0.245693	57.371073	
1.00000	9.263607	44.696185	1.270578
6.05E-06	1.025079	56.973371	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-13.334167	-57.256279	-1.858300
-0.001734	-2.088805	-101.799315	
0.57752	-13.334167	-57.256279	-1.858300
-0.001734	-1.309356	-78.912397	
0.71834	-13.334167	-57.256279	-1.858300
-0.001734	-0.529769	-57.065364	
0.85917	-13.334167	-57.256279	-1.858300
-0.001734	-0.186636	-42.349550	
1.00000	-13.334167	-57.256279	-1.858300
-0.001734	-0.720251	-42.545324	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	10.698034	76.054251	1.438679
0.002968	1.590544	173.075568	
0.57752	10.698034	76.054251	1.438679
0.002968	0.988555	144.367783	
0.71834	10.698034	76.054251	1.438679
0.002968	0.387810	121.652150	
0.85917	10.698034	76.054251	1.438679
0.002968	0.285183	109.288859	
1.00000	10.698034	76.054251	1.438679
0.002968	1.151256	105.656320	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-22.234773	-86.244737	-2.066927
-0.003896	-2.321085	-118.758615	
0.57752	-22.234773	-86.244737	-2.066927
-0.003896	-1.454302	-84.412599	
0.71834	-22.234773	-86.244737	-2.066927
-0.003896	-0.588683	-60.766857	
0.85917	-22.234773	-86.244737	-2.066927
-0.003896	-0.226815	-43.664009	
1.00000	-22.234773	-86.244737	-2.066927
-0.003896	-0.826313	-39.490531	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	13.924539	80.298415	0.813274
0.008043	0.902783	158.954699	
0.57752	13.924539	80.298415	0.813274
0.008043	0.561852	130.579644	
0.71834	13.924539	80.298415	0.813274
0.008043	0.220863	109.303981	
0.85917	13.924539	80.298415	0.813274
0.008043	0.182102	102.726500	
1.00000	13.924539	80.298415	0.813274
0.008043	0.709866	109.456645	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-17.815191	-126.620963	-1.258107
-0.006306	-1.411946	-134.162334	
0.57752	-17.815191	-126.620963	-1.258107
-0.006306	-0.884503	-92.028317	
0.71834	-17.815191	-126.620963	-1.258107
-0.006306	-0.357176	-62.720708	
0.85917	-17.815191	-126.620963	-1.258107
-0.006306	-0.134458	-50.304364	
1.00000	-17.815191	-126.620963	-1.258107
-0.006306	-0.473030	-45.657925	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2710

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	19.980982	80.465324	1.438679
0.008124	1.590544	173.075568	
0.57752	19.980982	80.465324	1.438679
0.008124	0.988555	144.367783	
0.71834	19.980982	80.465324	1.438679
0.008124	0.387810	121.652150	
0.85917	19.980982	80.465324	1.438679
0.008124	0.346041	109.288859	
1.00000	19.980982	80.465324	1.438679
0.008124	1.330241	113.783595	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-22.234773	-129.491547	-2.358230
-0.006290	-2.635203	-152.471186	
0.57752	-22.234773	-129.491547	-2.358230
-0.006290	-1.646350	-106.691408	
0.71834	-22.234773	-129.491547	-2.358230
-0.006290	-0.659393	-76.251300	
0.85917	-22.234773	-129.491547	-2.358230
-0.006290	-0.226815	-52.215476	
1.00000	-22.234773	-129.491547	-2.358230
-0.006290	-0.826313	-49.202684	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	19.980982	80.465324	1.438679
0.008124	1.590544	173.075568	
0.57752	19.980982	80.465324	1.438679
0.008124	0.988555	144.367783	
0.71834	19.980982	80.465324	1.438679
0.008124	0.387810	121.652150	
0.85917	19.980982	80.465324	1.438679
0.008124	0.346041	109.288859	
1.00000	19.980982	80.465324	1.438679
0.008124	1.330241	113.783595	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-22.234773	-129.491547	-2.358230
-0.006306	-2.635203	-152.471186	
0.57752	-22.234773	-129.491547	-2.358230
-0.006306	-1.646350	-106.691408	
0.71834	-22.234773	-129.491547	-2.358230
-0.006306	-0.659393	-76.251300	
0.85917	-22.234773	-129.491547	-2.358230
-0.006306	-0.226815	-52.215476	
1.00000	-22.234773	-129.491547	-2.358230
-0.006306	-0.826313	-49.202684	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	19.980982	80.465324	1.438679
0.008124	1.590544	173.075568	
0.57752	19.980982	80.465324	1.438679
0.008124	0.988555	144.367783	
0.71834	19.980982	80.465324	1.438679
0.008124	0.387810	121.652150	
0.85917	19.980982	80.465324	1.438679
0.008124	0.346041	109.288859	
1.00000	19.980982	80.465324	1.438679
0.008124	1.330241	113.783595	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-22.234773	-129.491547	-2.358230
-0.006306	-2.635203	-152.471186	
0.57752	-22.234773	-129.491547	-2.358230
-0.006306	-1.646350	-106.691408	
0.71834	-22.234773	-129.491547	-2.358230
-0.006306	-0.659393	-76.251300	
0.85917	-22.234773	-129.491547	-2.358230
-0.006306	-0.226815	-52.215476	
1.00000	-22.234773	-129.491547	-2.358230
-0.006306	-0.826313	-49.202684	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2711

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 249 ========== LENGTH = 2.977006

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.821907	44.349057	0.405655
0.001581	0.230543	3.154084	
0.14083	7.821907	44.349057	0.405655
0.001581	0.060463	6.446845	
0.28166	7.821907	44.349057	0.405655
0.001581	0.161528	17.661312	
0.42249	7.821907	44.349057	0.405655
0.001581	0.393374	29.240355	
0.56332	7.821907	44.349057	0.405655
0.001581	0.625296	40.846259	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.749025	-27.863949	-0.553198
-7.44E-06	-0.302447	-23.082280	
0.14083	-4.749025	-27.863949	-0.553198
-7.44E-06	-0.070623	-40.770289	
0.28166	-4.749025	-27.863949	-0.553198
-7.44E-06	-0.109639	-59.234806	
0.42249	-4.749025	-27.863949	-0.553198
-7.44E-06	-0.279700	-77.710745	
0.56332	-4.749025	-27.863949	-0.553198
-7.44E-06	-0.449764	-96.250708	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.420482	137.460804	0.576691
0.008257	0.332607	107.911602	
0.14083	8.420482	137.460804	0.576691
0.008257	0.101981	87.457916	
0.28166	8.420482	137.460804	0.576691
0.008257	0.263744	74.549366	
0.42249	8.420482	137.460804	0.576691
0.008257	0.651683	83.567258	
0.56332	8.420482	137.460804	0.576691
0.008257	1.039745	103.494939	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.562386	-51.325430	-0.941164
-0.006080	-0.548892	-14.518524	
0.14083	-19.562386	-51.325430	-0.941164
-0.006080	-0.155465	-39.289470	
0.28166	-19.562386	-51.325430	-0.941164
-0.006080	-0.160666	-65.429520	
0.42249	-19.562386	-51.325430	-0.941164
-0.006080	-0.401335	-98.101403	
0.56332	-19.562386	-51.325430	-0.941164
-0.006080	-0.642984	-151.883741	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.767703	120.768925	0.674375
0.005989	0.384755	96.774727	
0.14083	9.767703	120.768925	0.674375
0.005989	0.109519	100.206071	
0.28166	9.767703	120.768925	0.674375
0.005989	0.339728	111.838859	
0.42249	9.767703	120.768925	0.674375
0.005989	0.846885	138.676043	
0.56332	9.767703	120.768925	0.674375
0.005989	1.354223	173.013647	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.702195	-84.853554	-1.220802
-0.004275	-0.700064	-15.224639	
0.14083	-16.702195	-84.853554	-1.220802
-0.004275	-0.189096	-43.353545	
0.28166	-16.702195	-84.853554	-1.220802
-0.004275	-0.187172	-72.574711	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2712

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42249	-16.702195	-84.853554	-1.220802
-0.004275	-0.469207	-106.239923	
0.56332	-16.702195	-84.853554	-1.220802
-0.004275	-0.751858	-154.219442	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.694398	111.612514	0.769360

```
 0.004976    0.437084   84.114898
 0.14083    13.694398  111.612514    0.769360
 0.004976    0.120730   83.945757
 0.28166    13.694398  111.612514    0.769360
 0.004976    0.362708   93.784426
 0.42249    13.694398  111.612514    0.769360
 0.004976    0.908799  117.535678
 0.56332    13.694398  111.612514    0.769360
 0.004976    1.455017  147.621708

COMB DB-G1-4 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -15.866989  -76.833164   -1.311728
-0.004257   -0.750579   -31.543910
 0.14083  -15.866989  -76.833164   -1.311728
-0.004257   -0.201297   -53.584405
 0.28166  -15.866989  -76.833164   -1.311728
-0.004257   -0.213392   -76.617238
 0.42249  -15.866989  -76.833164   -1.311728
-0.004257   -0.535373  -103.843943
 0.56332  -15.866989  -76.833164   -1.311728
-0.004257   -0.857849  -144.906451

COMB DB-G2-1 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    0.910259   67.782631    0.180505
 0.005313    0.104923  109.768094
 0.14083    0.910259   67.782631    0.180505
 0.005313    0.102673  100.315258
 0.28166    0.910259   67.782631    0.180505
 0.005313    0.115413   91.075609
 0.42249    0.910259   67.782631    0.180505
 0.005313    0.294046   99.882295
 0.56332    0.910259   67.782631    0.180505
 0.005313    0.472683  117.661081

COMB DB-G2-1 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -12.660530  -45.635978   -0.439110
-0.005083   -0.272417   -1.399400
 0.14083  -12.660530  -45.635978   -0.439110
-0.005083   -0.089347   -3.173587
 0.28166  -12.660530  -45.635978   -0.439110
-0.005083   -0.054619   -5.400385
 0.42249  -12.660530  -45.635978   -0.439110
-0.005083   -0.129381   -12.996387
 0.56332  -12.660530  -45.635978   -0.439110
-0.005083   -0.204942   -38.145283

COMB DB-G2-2 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    7.212493   77.929314    0.373782
 0.004945    0.213241  108.824267
 0.14083    7.212493   77.929314    0.373782
 0.004945    0.065135  106.848103
 0.28166    7.212493   77.929314    0.373782
 0.004945    0.226422  107.812344
 0.42249    7.212493   77.929314    0.373782
 0.004945    0.575664  126.793352
 0.56332    7.212493   77.929314    0.373782
 0.004945    0.924995  154.280329

COMB DB-G2-2 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -11.752693  -69.217080   -0.845411
-0.005208   -0.500790   -14.082957
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2713

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P          V2          V3
      T         M2          M3
 0.14083  -11.752693  -69.217080   -0.845411
-0.005208   -0.147282   -18.738306
 0.28166  -11.752693  -69.217080   -0.845411
-0.005208   -0.107580   -24.019683
 0.42249  -11.752693  -69.217080   -0.845411
-0.005208   -0.263495   -34.990054
 0.56332  -11.752693  -69.217080   -0.845411
-0.005208   -0.420091   -64.415348

COMB DB-G2-3 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    9.658022  115.982635    0.606352
 0.004724    0.344808  100.024974
 0.14083    9.658022  115.982635    0.606352
 0.004724    0.096647   94.350282
 0.28166    9.658022  115.982635    0.606352
 0.004724    0.263495   95.780408
 0.42249    9.658022  115.982635    0.606352
 0.004724    0.812434  131.198820
 0.56332    9.658022  115.982635    0.606352
 0.004724    1.301562  162.899608

COMB DB-G2-3 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -18.121688  -79.006170   -1.175322
-0.003779   -0.675189   -17.860900
 0.14083  -18.121688  -79.006170   -1.175322
-0.003779   -0.183174   -26.066303
 0.28166  -18.121688  -79.006170   -1.175322
-0.003779   -0.168809   -54.708595
 0.42249  -18.121688  -79.006170   -1.175322
-0.003779   -0.422511   -87.464996
 0.56332  -18.121688  -79.006170   -1.175322
-0.003779   -0.676628  -133.791575

COMB DB-G2-4 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   10.382489  107.473302    0.734194
 0.003952    0.416164   88.998220
 0.14083   10.382489  107.473302    0.734194
 0.003952    0.113413   79.760589
 0.28166   10.382489  107.473302    0.734194
 0.003952    0.344832   88.465924
 0.42249   10.382489  107.473302    0.734194
 0.003952    0.870895  109.893176
 0.56332   10.382489  107.473302    0.734194
 0.003952    1.397022  136.572767

COMB DB-G2-4 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -17.510868  -69.285532   -1.262161
-0.003906   -0.724424   -32.498581
 0.14083  -17.510868  -69.285532   -1.262161
-0.003906   -0.195807   -38.210979
 0.28166  -17.510868  -69.285532   -1.262161
-0.003906   -0.203773   -60.948241
 0.42249  -17.510868  -69.285532   -1.262161
-0.003906   -0.511179   -87.063148
 0.56332  -17.510868  -69.285532   -1.262161
-0.003906   -0.818920  -124.253421

COMB DB-G3-1 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    1.560002   16.126821    0.364741
 1.06E-05    0.205366   11.250322
 0.14083    1.560002   16.126821    0.364741
 1.06E-05    0.052371    5.964686
 0.28166    1.560002   16.126821    0.364741
 1.06E-05    0.110800    3.116627
 0.42249    1.560002   16.126821    0.364741
 1.06E-05    0.286908    1.884590
 0.56332    1.560002   16.126821    0.364741
 1.06E-05    0.463012    2.822854
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2714

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   -4.127655   -4.791657   -0.420061
-0.001202   -0.241443   -26.340587
 0.14083   -4.127655   -4.791657   -0.420061
-0.001202   -0.065223   -24.617783
 0.28166   -4.127655   -4.791657   -0.420061
-0.001202   -0.100470   -23.016543
 0.42249   -4.127655   -4.791657   -0.420061
-0.001202   -0.253396   -21.524190
 0.56332   -4.127655   -4.791657   -0.420061
-0.001202   -0.406314   -20.065257

COMB DB-G3-2 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  10.357147   31.626628    0.574108
 0.000236    0.322865   17.652431
 0.14083  10.357147   31.626628    0.574108
 0.000236    0.082430   10.087504
 0.28166  10.357147   31.626628    0.574108
 0.000236    0.208795    7.956948
 0.42249  10.357147   31.626628    0.574108
 0.000236    0.535579   11.621552
 0.56332  10.357147   31.626628    0.574108
 0.000236    0.862378   16.676139

COMB DB-G3-2 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   -6.374144   -17.369226   -0.779986
-0.002137   -0.446016   -45.669702
 0.14083   -6.374144   -17.369226   -0.779986
-0.002137   -0.118855   -42.379372
 0.28166   -6.374144   -17.369226   -0.779986
-0.002137   -0.158798   -41.062820
 0.42249   -6.374144   -17.369226   -0.779986
-0.002137   -0.399480   -40.959565
 0.56332   -6.374144   -17.369226   -0.779986
-0.002137   -0.640164   -44.274482

COMB DB-G3-3 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    8.008022   38.392715    0.659654
 0.000325    0.369854   50.085345
 0.14083    8.008022   38.392715    0.659654
 0.000325    0.093781   63.070839
 0.28166    8.008022   38.392715    0.659654
 0.000325    0.287063   81.249428
 0.42249    8.008022   38.392715    0.659654
 0.000325    0.735060  105.176115
 0.56332    8.008022   38.392715    0.659654
 0.000325    1.183122  130.449947

COMB DB-G3-3 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   -8.425698   -64.401587   -1.069616
-0.001946   -0.611205   -39.116818
 0.14083   -8.425698   -64.401587   -1.069616
-0.001946   -0.162796   -41.918143
 0.28166   -8.425698   -64.401587   -1.069616
-0.001946   -0.183760   -44.966063
 0.42249   -8.425698   -64.401587   -1.069616
-0.001946   -0.460295   -48.999224
 0.56332   -8.425698   -64.401587   -1.069616
-0.001946   -0.736816   -55.939542

COMB DB-G3-4 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    8.276527  105.677720    0.727245
 0.004134    0.412328  103.824032
 0.14083    8.276527  105.677720    0.727245
 0.004134    0.113346   87.519533
 0.28166    8.276527  105.677720    0.727245
 0.004134    0.331288   87.782441
 0.42249    8.276527  105.677720    0.727245
 0.004134    0.549230   95.358181
 0.56332    8.276527  105.677720    0.727245
 0.004134    1.353079  129.961467
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2715

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -18.231290   -63.966827   -1.227205
-0.004674   -0.710574   -35.583880
 0.14083  -18.231290   -63.966827   -1.227205
-0.004674   -0.196637   -35.544361
 0.28166  -18.231290   -63.966827   -1.227205
-0.004674   -0.202658   -51.964275
 0.42249  -18.231290   -63.966827   -1.227205
-0.004674   -0.507025   -73.720679
 0.56332  -18.231290   -63.966827   -1.227205
-0.004674   -0.811850  -108.459963

COMB DL-G1-1 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   14.114699   38.942844    0.592695
 0.001778    0.344950    4.260872
 0.14083   14.114699   38.942844    0.592695
 0.001778    0.096500    7.092079
 0.28166   14.114699   38.942844    0.592695
 0.001778    0.321009   20.326755
 0.42249   14.114699   38.942844    0.592695
 0.001778    0.789818   34.427036
 0.56332   14.114699   38.942844    0.592695
 0.001778    1.258699   49.844177

COMB DL-G1-1 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   -5.541743   -38.712690   -1.118685
-4.46E-06   -0.617514   -37.036136
 0.14083   -5.541743   -38.712690   -1.118685
-4.46E-06   -0.148902   -42.581035
 0.28166   -5.541743   -38.712690   -1.118685
-4.46E-06   -0.151279   -56.129117
 0.42249   -5.541743   -38.712690   -1.118685
-4.46E-06   -0.399696   -70.413124
 0.56332   -5.541743   -38.712690   -1.118685
-4.46E-06   -0.648304   -85.964820

COMB DL-G1-2 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  14.907582  126.508894    0.937426
 0.008605    0.547187  113.833786
 0.14083  14.907582  126.508894    0.937426
 0.008605    0.166457   91.848269
 0.28166  14.907582  126.508894    0.937426
 0.008605    0.466486   81.073770
 0.42249  14.907582  126.508894    0.937426
 0.008605    1.164191   91.806600
 0.56332  14.907582  126.508894    0.937426
 0.008605    1.862950  115.274465

COMB DL-G1-2 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -23.080273   -62.152453   -1.682765
-0.006096   -0.971540   -30.632666
 0.14083  -23.080273   -62.152453   -1.682765
-0.006096   -0.266666   -40.514306
 0.28166  -23.080273   -62.152453   -1.682765
-0.006096   -0.252210   -59.317019
 0.42249  -23.080273   -62.152453   -1.682765
-0.006096   -0.643216   -87.321715
 0.56332  -23.080273   -62.152453   -1.682765
-0.006096   -1.035099  -137.983154

COMB DL-G1-3 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   16.322762   115.840191    1.127798
 0.006469    0.648937   108.049492
 0.14083   16.322762   115.840191    1.127798
 0.006469    0.184681   105.672393
 0.28166   16.322762   115.840191    1.127798
 0.006469    0.593419   114.473955
 0.42249   16.322762   115.840191    1.127798
 0.006469    1.486861   138.968497
 0.56332   16.322762   115.840191    1.127798
 0.006469    2.381576   172.601350
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2716

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -21.054363   -87.020622   -2.144369
-0.004491   -1.222359   -29.882218
 0.14083  -21.054363   -87.020622   -2.144369
-0.004491   -0.324943   -44.590262
 0.28166  -21.054363   -87.020622   -2.144369
-0.004491   -0.906889   -67.443168
 0.42249  -21.054363   -87.020622   -2.144369
-0.004491   -0.777858   -97.214776
 0.56332  -21.054363   -87.020622   -2.144369
-0.004491   -1.249851  -143.199909

COMB DL-G1-4 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  19.510131  111.046676    1.307545
 0.005376    0.748305   94.281521
 0.14083  19.510131  111.046676    1.307545
 0.005376    0.207455   98.452566
 0.28166  19.510131  111.046676    1.307545
 0.005376    0.664562   96.090256
 0.42249  19.510131  111.046676    1.307545
 0.005376    1.666236  117.714638
 0.56332  19.510131  111.046676    1.307545
 0.005376    2.668502  147.058173

COMB DL-G1-4 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -20.147612   -78.418720   -2.399822
-0.004437   -1.361971   -43.799104
 0.14083  -20.147612   -78.418720   -2.399822
-0.004437   -0.357064   -56.190136
 0.28166  -20.147612   -78.418720   -2.399822
-0.004437   -0.356581   -78.307123
 0.42249  -20.147612   -78.418720   -2.399822
-0.004437   -0.903245  -106.630487
 0.56332  -20.147612   -78.418720   -2.399822
-0.004437   -1.450732  -148.474336

COMB DL-G2-1 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    1.305650   57.462935    0.326315
 0.004685    0.185603  106.625263
 0.14083    1.305650   57.462935    0.326315
 0.004685    0.057782  100.223882
 0.28166    1.305650   57.462935    0.326315
 0.004685    0.153576   94.293837
 0.42249    1.305650   57.462935    0.326315
 0.004685    0.638161  102.236687
 0.56332    1.305650   57.462935    0.326315
 0.004685    0.638331  118.434114

COMB DL-G2-1 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -16.031102   -42.772924   -0.590024
-0.004270   -0.360038   -2.045295
 0.14083  -16.031102   -42.772924   -0.590024
-0.004270   -0.114658   -3.223194
 0.28166  -16.031102   -42.772924   -0.590024
-0.004270   -0.098771   -5.041261
 0.42249  -16.031102   -42.772924   -0.590024
-0.004270   -0.233804   -12.255266
 0.56332  -16.031102   -42.772924   -0.590024
-0.004270   -0.369641   -34.699713

COMB DL-G2-2 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    8.131302   73.825353    0.696811
 0.004391    0.395152  109.682274
 0.14083    8.131302   73.825353    0.696811
 0.004391    0.110846  107.469739
 0.28166    8.131302   73.825353    0.696811
 0.004391    0.368477  108.233374
 0.42249    8.131302   73.825353    0.696811
 0.004391    0.933637  123.089162
 0.56332    8.131302   73.825353    0.696811
 0.004391    1.499429  146.169891
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2717

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -15.403112   -61.137627   -1.360129
-0.004535   -0.788184   -13.892162
 0.14083  -15.403112   -61.137627   -1.360129
-0.004535   -0.219568   -19.703673
 0.28166  -15.403112   -61.137627   -1.360129
-0.004535   -0.200477   -27.292257
 0.42249  -15.403112   -61.137627   -1.360129
-0.004535   -0.490622   -40.382712
 0.56332  -15.403112   -61.137627   -1.360129
-0.004535   -0.781781   -68.108283

COMB DL-G2-3 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  12.932878  106.009591    1.065968
 0.004175    0.604986  101.388031
 0.14083  12.932878  106.009591    1.065968
 0.004175    0.163443   95.113102
 0.28166  12.932878  106.009591    1.065968
 0.004175    0.549765  109.197106
 0.42249  12.932878  106.009591    1.065968
 0.004175    1.385417  133.795768
 0.56332  12.932878  106.009591    1.065968
 0.004175    2.221499  164.277299

COMB DL-G2-3 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -21.588147   -78.235720   -2.001312
-0.003063   -1.138815   -19.737390
 0.14083  -21.588147   -78.235720   -2.001312
-0.003063   -0.301410   -25.327023
 0.28166  -21.588147   -78.235720   -2.001312
-0.003063   -0.295695   -52.650391
 0.42249  -21.588147   -78.235720   -2.001312
-0.003063   -0.741410   -84.442401
 0.56332  -21.588147   -78.235720   -2.001312
-0.003063   -1.187848  -125.947366

COMB DL-G2-4 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   13.325457   103.118518    1.308937
 0.003498    0.740667   91.763219
 0.14083   13.325457   103.118518    1.308937
 0.003498    0.196291   80.854149
 0.28166   13.325457   103.118518    1.308937
 0.003498    0.626665   91.532909
 0.42249   13.325457   103.118518    1.308937
 0.003498    1.583880  112.327399
 0.56332   13.325457   103.118518    1.308937
 0.003498    2.541083  137.995084

COMB DL-G2-4 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -21.498903   -69.034745   -2.288990
-0.003380   -1.300529   -35.519798
 0.14083  -21.498903   -69.034745   -2.288990
-0.003380   -0.342018   -39.231628
 0.28166  -21.498903   -69.034745   -2.288990
-0.003380   -0.362523   -64.367309
 0.42249  -21.498903   -69.034745   -2.288990
-0.003380   -0.910286   -94.383329
 0.56332  -21.498903   -69.034745   -2.288990
-0.003380   -1.458713  -132.465640

COMB DL-G3-1 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    2.097755   21.994696    0.678328
 7.55E-06    0.379683   14.718693
 0.14083    2.097755   21.994696    0.678328
 7.55E-06    0.095127    7.188226
 0.28166    2.097755   21.994696    0.678328
 7.55E-06    0.250397    3.005000
 0.42249    2.097755   21.994696    0.678328
 7.55E-06    0.641774    2.906522
 0.56332    2.097755   21.994696    0.678328
 7.55E-06    1.032968    3.579660
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2718

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   -7.292202   -6.063651   -0.932791
-0.001327   -0.530567   -29.756768
 0.14083   -7.292202   -6.063651   -0.932791
-0.001327   -0.139226   -28.425948
 0.28166   -7.292202   -6.063651   -0.932791
-0.001327   -0.188815   -29.408490
 0.42249   -7.292202   -6.063651   -0.932791
-0.001327   -0.473364   -34.093227
 0.56332   -7.292202   -6.063651   -0.932791
-0.001327   -0.757796   -39.190419

COMB DL-G3-2 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   11.479706   41.098429    1.067257
 0.000161    0.599939   21.162115
 0.14083   11.479706   41.098429    1.067257
 0.000161    0.153197   10.763747
 0.28166   11.479706   41.098429    1.067257
 0.000161    0.455046    7.915658
 0.42249   11.479706   41.098429    1.067257
 0.000161    1.156894   11.488448
 0.56332   11.479706   41.098429    1.067257
 0.000161    1.849456   16.675513

COMB DL-G3-2 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   -9.853400   -18.044219   -1.662583
-0.002190   -0.937810   -49.216006
 0.14083   -9.853400   -18.044219   -1.662583
-0.002190   -0.240191   -48.500088
 0.28166   -9.853400   -18.044219   -1.662583
-0.002190   -0.295392   -53.555620
 0.42249   -9.853400   -18.044219   -1.662583
-0.002190   -0.742937   -63.314235
 0.56332   -9.853400   -18.044219   -1.662583
-0.002190   -1.190367   -74.123148

COMB DL-G3-3 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000    9.366383   45.013393    1.197568
 8.63E-06    0.669139   56.981217
 0.14083    9.366383   45.013393    1.197568
 8.63E-06    0.166417   85.815551
 0.28166    9.366383   45.013393    1.197568
 8.63E-06    0.544634   80.954097
 0.42249    9.366383   45.013393    1.197568
 8.63E-06    1.384565  101.432830
 0.56332    9.366383   45.013393    1.197568
 8.63E-06    2.224557  122.929917

COMB DL-G3-3 ------------------- MIN

REL DIST         P          V2          V3
      T         M2          M3
 0.00000  -13.404538   -57.966569   -2.003146
-0.001636   -1.132514   -42.547131
 0.14083  -13.404538   -57.966569   -2.003146
-0.001636   -0.291646   -46.777237
 0.28166  -13.404538   -57.966569   -2.003146
-0.001636   -0.336196   -55.118078
 0.42249  -13.404538   -57.966569   -2.003146
-0.001636   -0.838300   -67.348203
 0.56332  -13.404538   -57.966569   -2.003146
-0.001636   -1.340334   -79.972885

COMB DL-G3-4 ------------------- MAX

REL DIST         P          V2          V3
      T         M2          M3
 0.00000   10.420177   100.767441    1.338221
 0.003323    0.753409   105.676566
 0.14083   10.420177   100.767441    1.338221
 0.003323    0.196899   90.326235
 0.28166   10.420177   100.767441    1.338221
 0.003323    0.605758   92.560867
 0.42249   10.420177   100.767441    1.338221
 0.003323    1.538137   109.564803
 0.56332   10.420177   100.767441    1.338221
 0.003323    2.470983   132.423970
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                2719
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-23.575510	-62.902132	-2.231066
-0.003768		-1.273816	-39.479924	
0.14083		-23.575510	-62.902132	-2.231066
-0.003768		-0.938001	-39.910732	
0.28166		-23.575510	-62.902132	-2.231066
-0.003768		-0.375256	-58.398943	
0.42249		-23.575510	-62.902132	-2.231066
-0.003768		-0.935296	-85.280781	
0.56332		-23.575510	-62.902132	-2.231066
-0.003768		-1.495904	-121.356827	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		13.694398	137.460804	0.769360
0.008257		0.437084	109.768094	
0.14083		13.694398	137.460804	0.769360
0.008257		0.120730	106.848103	
0.28166		13.694398	137.460804	0.769360
0.008257		0.362708	111.838859	
0.42249		13.694398	137.460804	0.769360
0.008257		0.908799	138.676043	
0.56332		13.694398	137.460804	0.769360
0.008257		1.455017	173.013647	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-19.562386	-84.853554	-1.311728
-0.006080		-0.750579	-45.669702	
0.14083		-19.562386	-84.853554	-1.311728
-0.006080		-0.201297	-53.584405	
0.28166		-19.562386	-84.853554	-1.311728
-0.006080		-0.213392	-76.617238	
0.42249		-19.562386	-84.853554	-1.311728
-0.006080		-0.535373	-106.239923	
0.56332		-19.562386	-84.853554	-1.311728
-0.006080		-0.857849	-154.219442	

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.510131	126.508894	1.338221
0.008605		0.753449	113.833786	
0.14083		19.510131	126.508894	1.338221
0.008605		0.207455	107.469739	
0.28166		19.510131	126.508894	1.338221
0.008605		0.664562	114.473955	
0.42249		19.510131	126.508894	1.338221
0.008605		1.666236	138.968497	
0.56332		19.510131	126.508894	1.338221
0.008605		2.668502	172.610350	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-23.575510	-87.020622	-2.399822
-0.006096		-1.361971	-49.216006	
0.14083		-23.575510	-87.020622	-2.399822
-0.006096		-0.357064	-56.190136	
0.28166		-23.575510	-87.020622	-2.399822
-0.006096		-0.375256	-78.307123	
0.42249		-23.575510	-87.020622	-2.399822
-0.006096		-0.935296	-106.630487	
0.56332		-23.575510	-87.020622	-2.399822
-0.006096		-1.495904	-148.474336	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.510131	137.460804	1.338221
0.008605		0.753449	113.833786	
0.14083		19.510131	137.460804	1.338221
0.008605		0.207455	107.469739	
0.28166		19.510131	137.460804	1.338221
0.008605		0.664562	114.473955	
0.42249		19.510131	137.460804	1.338221
0.008605		1.666236	138.968497	
0.56332		19.510131	137.460804	1.338221
0.008605		2.668502	173.013647	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2720

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-23.575510	-87.020622	-2.399822
-0.006096		-1.361971	-49.216006	
0.14083		-23.575510	-87.020622	-2.399822
-0.006096		-0.357064	-56.190136	
0.28166		-23.575510	-87.020622	-2.399822
-0.006096		-0.375256	-78.307123	
0.42249		-23.575510	-87.020622	-2.399822
-0.006096		-0.935296	-106.630487	
0.56332		-23.575510	-87.020622	-2.399822
-0.006096		-1.495904	-154.219442	

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		19.510131	137.460804	1.338221
0.008605		0.753449	113.833786	
0.14083		19.510131	137.460804	1.338221
0.008605		0.207455	107.469739	
0.28166		19.510131	137.460804	1.338221
0.008605		0.664562	114.473955	
0.42249		19.510131	137.460804	1.338221
0.008605		1.666236	138.968497	
0.56332		19.510131	137.460804	1.338221
0.008605		2.668502	173.013647	

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-23.575510	-87.020622	-2.399822
-0.006096		-1.361971	-49.216006	
0.14083		-23.575510	-87.020622	-2.399822
-0.006096		-0.357064	-56.190136	
0.28166		-23.575510	-87.020622	-2.399822
-0.006096		-0.375256	-78.307123	
0.42249		-23.575510	-87.020622	-2.399822
-0.006096		-0.935296	-106.630487	
0.56332		-23.575510	-87.020622	-2.399822
-0.006096		-1.495904	-154.219442	

ELEM 250 ========== LENGTH = 2.977165

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		1.302208	62.112367	0.392183
0.001451		0.439148	81.024445	
0.57749		1.302208	62.112367	0.392183
0.001451		0.274710	55.041886	
0.71833		1.302208	62.112367	0.392183
0.001451		0.110263	29.170907	
0.85916		1.302208	62.112367	0.392183
0.001451		0.088278	3.743854	
1.00000		1.302208	62.112367	0.392183
0.001451		0.332703	3.120074	

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-8.268813	-15.120966	-0.582906
-1.51E-05		-0.644954	-30.682650	
0.57749		-8.268813	-15.120966	-0.582906
-1.51E-05		-0.400575	-24.423477	
0.71833		-8.268813	-15.120966	-0.582906
-1.51E-05		-0.156196	-18.540244	
0.85916		-8.268813	-15.120966	-0.582906
-1.51E-05		-0.054162	-12.985341	
1.00000		-8.268813	-15.120966	-0.582906
-1.51E-05		-0.218617	-24.583562	

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		5.447158	91.083318	0.602446
0.007970		0.670874	166.511800	
0.57749		5.447158	91.083318	0.602446
0.007970		0.418275	130.333787	
0.71833		5.447158	91.083318	0.602446
0.007970		0.165660	107.741844	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2721

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.85916		5.447158	91.083318	0.602446
0.007970		0.161581	103.691986	
1.00000		5.447158	91.083318	0.602446
0.007970		0.547975	117.329789	

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-11.700730	-100.180784	-0.923980
-0.006290		-1.001706	-65.179686	
0.57749		-11.700730	-100.180784	-0.923980
-0.006290		-0.623513	-35.170882	
0.71833		-11.700730	-100.180784	-0.923980
-0.006290		-0.246118	-24.498312	
0.85916		-11.700730	-100.180784	-0.923980
-0.006290		-0.107824	-17.149796	
1.00000		-11.700730	-100.180784	-0.923980
-0.006290		-0.348954	-14.044410	

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		8.277054	85.076039	0.620715
0.005864		0.691981	162.608040	
0.57749		8.277054	85.076039	0.620715
0.005864		0.431727	129.869972	
0.71833		8.277054	85.076039	0.620715
0.005864		0.171459	106.967076	
0.85916		8.277054	85.076039	0.620715
0.005864		0.177725	98.203157	
1.00000		8.277054	85.076039	0.620715
0.005864		0.648196	112.489928	

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-10.738047	-123.378009	-1.124122
-0.004792		-1.237153	-107.789790	
0.57749		-10.738047	-123.378009	-1.124122
-0.004792		-0.772179	-64.266770	
0.71833		-10.738047	-123.378009	-1.124122
-0.004792		-0.307753	-32.1695506	
0.85916		-10.738047	-123.378009	-1.124122
-0.004792		-0.103046	-16.230483	
1.00000		-10.738047	-123.378009	-1.124122
-0.004792		-0.355489	-14.088764	

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		9.533678	76.854687	0.718845
0.004872		0.801740	148.501160	
0.57749		9.533678	76.854687	0.718845
0.004872		0.500339	118.729411	
0.71833		9.533678	76.854687	0.718845
0.004872		0.198939	97.165541	
0.85916		9.533678	76.854687	0.718845
0.004872		0.178679	87.375274	
1.00000		9.533678	76.854687	0.718845
0.004872		0.665010	96.902954	

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-9.470108	-115.079477	-1.161516
-0.004468		-1.283114	-129.624698	
0.57749		-9.470108	-115.079477	-1.161516
-0.004468		-0.801822	-88.401600	
0.71833		-9.470108	-115.079477	-1.161516
-0.004468		-0.321964	-57.089689	
0.85916		-9.470108	-115.079477	-1.161516
-0.004468		-0.114263	-39.712974	
1.00000		-9.470108	-115.079477	-1.161516
-0.004468		-0.409211	-33.447667	

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		5.136503	8.928734	0.188478
0.005446		0.206896	48.128579	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2722

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57749		5.136503	8.928734	0.188478
0.005446		0.127868	46.713115	
0.71833		5.136503	8.928734	0.188478
0.005446		0.048815	57.213549	
0.85916		5.136503	8.928734	0.188478
0.005446		0.070049	85.040486	
1.00000		5.136503	8.928734	0.188478
0.005446		0.220495	123.915847	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-1.638683	-100.940092	-0.361038
-0.005478		-0.385025	-50.6490048	
0.57749		-1.638683	-100.940092	-0.361038
-0.005478		-0.241353	-18.357558	
0.71833		-1.638683	-100.940092	-0.361038
-0.005478		-0.098380	-3.214052	
0.85916		-1.638683	-100.940092	-0.361038
-0.005478		-0.047775	-2.310931	
1.00000		-1.638683	-100.940092	-0.361038
-0.005478		-0.117135	-2.006635	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		9.289541	13.642911	0.329230
0.005078		0.364605	57.000075	
0.57749		9.289541	13.642911	0.329230
0.005078		0.226569	54.577342	
0.71833		9.289541	13.642911	0.329230
0.005078		0.088545	63.443350	
0.85916		9.289541	13.642911	0.329230
0.005078		0.110099	88.377265	
1.00000		9.289541	13.642911	0.329230
0.005078		0.395007	126.879369	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-1.924104	-131.120861	-0.681855
-0.005692		-0.748694	-105.592199	
0.57749		-1.924104	-131.120861	-0.681855
-0.005692		-0.470047	-60.061813	
0.71833		-1.924104	-131.120861	-0.681855
-0.005692		-0.192026	-28.153163	
0.85916		-1.924104	-131.120861	-0.681855
-0.005692		-0.065874	-14.774779	
1.00000		-1.924104	-131.120861	-0.681855
-0.005692		-0.194915	-13.194019	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		8.725070	79.399818	0.548140
0.004487		0.610856	180.129925	
0.57749		8.725070	79.399818	0.548140
0.004487		0.381014	149.597089	
0.71833		8.725070	79.399818	0.548140
0.004487		0.151192	127.254642	
0.85916		8.725070	79.399818	0.548140
0.004487		0.157041	116.951818	
1.00000		8.725070	79.399818	0.548140
0.004487		0.587719	119.499409	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-8.843896	-118.113633	-1.028938
-0.004201		-1.138084	-112.700864	
0.57749		-8.843896	-118.113633	-1.028938
-0.004201		-0.711812	-70.029146	
0.71833		-8.843896	-118.113633	-1.028938
-0.004201		-0.286025	-37.186819	
0.85916		-8.843896	-118.113633	-1.028938
-0.004201		-0.090122	-21.658866	
1.00000		-8.843896	-118.113633	-1.028938
-0.004201		-0.313653	-16.687913	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2723

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		9.530665	72.952536	0.679112
0.003754		0.757457	166.403743	
0.57749		9.530665	72.952536	0.679112
0.003754		0.472702	138.124894	
0.71833		9.530665	72.952536	0.679112
0.003754		0.187926	116.696961	
0.85916		9.530665	72.952536	0.679112
0.003754		0.162569	105.323510	
1.00000		9.530665	72.952536	0.679112
0.003754		0.615299	104.579968	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-7.986645	-106.883624	-1.081089
-0.004009		-1.197933	-132.006730	
0.57749		-7.986645	-106.883624	-1.081089
-0.004009		-0.748960	-93.043435	
0.71833		-7.986645	-106.883624	-1.081089
-0.004009		-0.300344	-62.227847	
0.85916		-7.986645	-106.883624	-1.081089
-0.004009		-0.106363	-45.683216	
1.00000		-7.986645	-106.883624	-1.081089
-0.004009		-0.385871	-38.293625	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		3.252100	11.048119	0.352738
7.09E-06		0.394230	27.813960	
0.57749		3.252100	11.048119	0.352738
7.09E-06		0.246331	23.202661	
0.71833		3.252100	11.048119	0.352738
7.09E-06		0.098423	18.644868	
0.85916		3.252100	11.048119	0.352738
7.09E-06		-0.049809	14.181937	
1.00000		3.252100	11.048119	0.352738
7.09E-06		0.202780	9.680663	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-1.032659	-11.452122	-0.362324
-0.000771		-0.404899	-57.420292	
0.57749		-1.032659	-11.452122	-0.362324
-0.000771		-0.252990	-52.742520	
0.71833		-1.032659	-11.452122	-0.362324
-0.000771		-0.101085	-48.136829	
0.85916		-1.032659	-11.452122	-0.362324
-0.000771		-0.049418	-43.570926	
1.00000		-1.032659	-11.452122	-0.362324
-0.000771		-0.197378	-39.052567	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		6.908890	17.114950	0.559761
0.000204		0.625070	39.775766	
0.57749		6.908890	17.114950	0.559761
0.000204		0.390369	33.220942	
0.71833		6.908890	17.114950	0.559761
0.000204		0.155648	27.161832	
0.85916		6.908890	17.114950	0.559761
0.000204		0.088610	21.807447	
1.00000		6.908890	17.114950	0.559761
0.000204		0.358181	16.938119	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-1.613549	-34.580242	-0.642931
-0.001521		-0.720276	-106.097660	
0.57749		-1.613549	-34.580242	-0.642931
-0.001521		-0.451023	-92.438555	
0.71833		-1.613549	-34.580242	-0.642931
-0.001521		-0.181855	-80.110898	
0.85916		-1.613549	-34.580242	-0.642931
-0.001521		-0.079569	-68.332911	
1.00000		-1.613549	-34.580242	-0.642931
-0.001521		-0.314026	-56.883604	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2724

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		9.637335	17.656491	0.578089
0.000462		0.644785	58.073974	
0.57749		9.637335	17.656491	0.578089
0.000462		0.402399	52.686000	
0.71833		9.637335	17.656491	0.578089
0.000462		0.160003	48.853911	
0.85916		9.637335	17.656491	0.578089
0.000462		0.118068	48.536672	
1.00000		9.637335	17.656491	0.578089
0.000462		0.481451	61.019040	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-1.881979	-86.868948	-0.867060
-0.001884		-0.972646	-141.589939	
0.57749		-1.881979	-86.868948	-0.867060
-0.001884		-0.608857	-106.245835	
0.71833		-1.881979	-86.868948	-0.867060
-0.001884		-0.246907	-72.487194	
0.85916		-1.881979	-86.868948	-0.867060
-0.001884		-0.083403	-56.538916	
1.00000		-1.881979	-86.868948	-0.867060
-0.001884		-0.325267	-51.003329	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		10.038612	61.082226	0.676286
0.003975		0.753940	154.772528	
0.57749		10.038612	61.082226	0.676286
0.003975		0.470372	131.591053	
0.71833		10.038612	61.082226	0.676286
0.003975		0.186800	116.505037	
0.85916		10.038612	61.082226	0.676286
0.003975		0.157457	112.874741	
1.00000		10.038612	61.082226	0.676286
0.003975		0.593072	119.551462	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-6.399848	-110.486700	-1.040531
-0.004681		-1.152152	-137.532202	
0.57749		-6.399848	-110.486700	-1.040531
-0.004681		-0.720949	-97.975123	
0.71833		-6.399848	-110.486700	-1.040531
-0.004681		-0.290202	-68.037103	
0.85916		-6.399848	-110.486700	-1.040531
-0.004681		-0.108149	-52.142448	
1.00000		-6.399848	-110.486700	-1.040531
-0.004681		-0.385501	-45.392204	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		2.266540	58.223709	0.495221
0.001446		0.554439	75.170981	
0.57749		2.266540	58.223709	0.495221
0.001446		0.346612	51.148134	
0.71833		2.266540	58.223709	0.495221
0.001446		0.138961	27.490312	
0.85916		2.266540	58.223709	0.495221
0.001446		0.174000	5.740143	
1.00000		2.266540	58.223709	0.495221
0.001446		0.663343	4.118845	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-7.268206	-19.102767	-1.168119
-1.09E-05		-1.295939	-44.496669	
0.57749		-7.268206	-19.102767	-1.168119
-1.09E-05		-0.806130	-36.846008	
0.71833		-7.268206	-19.102767	-1.168119
-1.09E-05		-0.316488	-29.648970	
0.85916		-7.268206	-19.102767	-1.168119
-1.09E-05		-0.067853	-23.914787	
1.00000		-7.268206	-19.102767	-1.168119
-1.09E-05		-0.275335	-36.767646	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2725

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		6.384667	84.552895	0.853129
0.007950		0.943490	160.831976	
0.57749		6.384667	84.552895	0.853129
0.007950		0.586417	129.497713	
0.71833		6.384667	84.552895	0.853129
0.007950		0.231502	111.690261	
0.85916		6.384667	84.552895	0.853129
0.007950		0.261137	111.272722	
1.00000		6.384667	84.552895	0.853129
0.007950		0.930668	126.411817	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-10.627070	-101.849388	-1.599507
-0.006258		-1.755608	-84.866380	
0.57749		-10.627070	-101.849388	-1.599507
-0.006258		-1.093735	-47.819635	
0.71833		-10.627070	-101.849388	-1.599507
-0.006258		-0.433978	-35.374893	
0.85916		-10.627070	-101.849388	-1.599507
-0.006258		-0.147142	-26.397038	
1.00000		-10.627070	-101.849388	-1.599507
-0.006258		-0.489376	-28.088113	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		8.733554	79.763362	0.947172
0.005917		1.050311	157.456696	
0.57749		8.733554	79.763362	0.947172
0.005917		0.653722	128.084017	
0.71833		8.733554	79.763362	0.947172
0.005917		0.258724	109.061127	
0.85916		8.733554	79.763362	0.947172
0.005917		0.295611	108.784022	
1.00000		8.733554	79.763362	0.947172
0.005917		1.104238	128.103050	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-9.750925	-120.673171	-1.931648
-0.004872		-2.136676	-115.537385	
0.57749		-9.750925	-120.673171	-1.931648
-0.004872		-1.332411	-68.517678	
0.71833		-9.750925	-120.673171	-1.931648
-0.004872		-0.530891	-41.239076	
0.85916		-9.750925	-120.673171	-1.931648
-0.004872		-0.153350	-24.784475	
1.00000		-9.750925	-120.673171	-1.931648
-0.004872		-0.539599	-26.680438	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		9.775110	73.642826	1.097511
0.004916		1.219213	146.849258	
0.57749		9.775110	73.642826	1.097511
0.004916		0.759552	119.412622	
0.71833		9.775110	73.642826	1.097511
0.004916		0.301061	100.614853	
0.85916		9.775110	73.642826	1.097511
0.004916		0.319824	97.464631	
1.00000		9.775110	73.642826	1.097511
0.004916		1.216274	110.606189	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43666		-8.628877	-113.651178	-2.140838

```
-0.004532   -2.374958  -139.060389
0.57749     -8.628877  -113.651178     -2.140838
-0.004532   -1.482065   -95.371434
0.71833     -8.628877  -113.651178     -2.140838
-0.004532   -0.591941   -66.639112
0.85916     -8.628877  -113.651178     -2.140838
-0.004532   -0.171335   -48.282055
1.00000     -8.628877  -113.651178     -2.140838
-0.004532   -0.622538   -45.057193
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2726

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     4.438045        9.453403        0.339244
0.004593    0.368225        52.166403
0.57749     4.438045        9.453403        0.339244
0.004593    0.226640        52.531463
0.71833     4.438045        9.453403        0.339244
0.004593    0.086514        64.137490
0.85916     4.438045        9.453403        0.339244
0.004593    0.078586        91.833264
1.00000     4.438045        9.453403        0.339244
0.004593    0.260979        124.949142

COMB DL-G2-1 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -1.859810       -88.788676      -0.437241
-0.004562   -0.474399       -50.035643
0.57749     -1.859810       -88.788676      -0.437241
-0.004562   -0.297145       -17.902674
0.71833     -1.859810       -88.788676      -0.437241
-0.004562   -0.121474       -4.248995
0.85916     -1.859810       -88.788676      -0.437241
-0.004562   -0.072008       -3.137022
1.00000     -1.859810       -88.788676      -0.437241
-0.004562   -0.202868       -2.491431

COMB DL-G2-2 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     8.351409        15.273208       0.594070
0.004374    0.654128        63.037395
0.57749     8.351409        15.273208       0.594070
0.004374    0.405782        60.775068
0.71833     8.351409        15.273208       0.594070
0.004374    0.158671        68.759154
0.85916     8.351409        15.273208       0.594070
0.004374    0.167961        96.139684
1.00000     8.351409        15.273208       0.594070
0.004374    0.624334        132.259919

COMB DL-G2-2 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -2.013185       -116.427316     -1.093261
-0.004899   -1.209028       -98.105395
0.57749     -2.013185       -116.427316     -1.093261
-0.004899   -0.755676       -53.818223
0.71833     -2.013185       -116.427316     -1.093261
-0.004899   -0.305063       -26.867629
0.85916     -2.013185       -116.427316     -1.093261
-0.004899   -0.105264       -14.961781
1.00000     -2.013185       -116.427316     -1.093261
-0.004899   -0.344608       -12.893709

COMB DL-G2-3 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     8.208756        76.443238       0.892118
0.003751    0.990169        180.995229
0.57749     8.208756        76.443238       0.892118
0.003751    0.616344        152.270174
0.71833     8.208756        76.443238       0.892118
0.003751    0.243635        130.828274
0.85916     8.208756        76.443238       0.892118
0.003751    0.250797        124.532707
1.00000     8.208756        76.443238       0.892118
0.003751    0.965652        126.276160

COMB DL-G2-3 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -8.264127       -106.623527     -1.709430
-0.003380   -1.110437096
0.57749     -8.264127       -106.623527     -1.709430
-0.003380   -1.187026       -69.135190
0.71833     -8.264127       -106.623527     -1.709430
-0.003380   -0.475478       -39.694325
0.85916     -8.264127       -106.623527     -1.709430
-0.003380   -0.139452       -24.390926
1.00000     -8.264127       -106.623527     -1.709430
-0.003380   -0.407046       -17.950231
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2727

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     8.933025        72.228969       1.104033
0.003133    1.227582        171.334018
0.57749     8.933025        72.228969       1.104033
0.003133    0.764959        143.878305
0.71833     8.933025        72.228969       1.104033
0.003133    0.303137        122.483102
0.85916     8.933025        72.228969       1.104033
0.003133    0.277926        113.745326
1.00000     8.933025        72.228969       1.104033
0.003133    1.088854        111.816784

COMB DL-G2-4 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -7.601547       -98.972767      -1.936905
-0.003351   -2.158701       -136.346432
0.57749     -7.601547       -98.972767      -1.936905
-0.003351   -1.349091       -87.030395
0.71833     -7.601547       -98.972767      -1.936905
-0.003351   -0.541172       -69.211244
0.85916     -7.601547       -98.972767      -1.936905
-0.003351   -0.167164       -52.200343
1.00000     -7.601547       -98.972767      -1.936905
-0.003351   -0.624563       -42.952797

COMB DL-G3-1 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     2.974387        14.028119       0.597306
4.18E-06    0.666348        35.450010
0.57749     2.974387        14.028119       0.597306
4.18E-06    0.415832        29.649021
0.71833     2.974387        14.028119       0.597306
4.18E-06    0.165215        23.882525
0.85916     2.974387        14.028119       0.597306
4.18E-06    0.099449        18.141219
1.00000     2.974387        14.028119       0.597306
4.18E-06    0.417972        12.467170

COMB DL-G3-1 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -1.445508       -13.587555      -0.757764
-0.000807   -0.852278       -68.086673
0.57749     -1.445508       -13.587555      -0.757764
-0.000807   -0.534494       -62.536250
0.71833     -1.445508       -13.587555      -0.757764
-0.000807   -0.216490       -57.402391
0.85916     -1.445508       -13.587555      -0.757764
-0.000807   -0.084576       -51.603722
1.00000     -1.445508       -13.587555      -0.757764
-0.000807   -0.335225       -46.255585

COMB DL-G3-2 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     6.589176        21.499999       0.916214
0.000132    1.021882        50.709137
0.57749     6.589176        21.499999       0.916214
0.000132    0.637763        42.184873
0.71833     6.589176        21.499999       0.916214
0.000132    0.253353        34.017267
0.85916     6.589176        21.499999       0.916214
0.000132    0.191022        26.372881
1.00000     6.589176        21.499999       0.916214
0.000132    0.781141        19.490463

COMB DL-G3-2 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -1.962644       -36.365714      -1.407039
-0.001483   -1.577682       -117.936636
0.57749     -1.962644       -36.365714      -1.407039
-0.001483   -0.987732       -103.252998
0.71833     -1.962644       -36.365714      -1.407039
-0.001483   -0.397641       -89.440778
0.85916     -1.962644       -36.365714      -1.407039
-0.001483   -0.130663       -76.749110
1.00000     -1.962644       -36.365714      -1.407039
-0.001483   -0.514629       -64.784818
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2728

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     8.581287        21.493148       0.994746
0.000147    1.107736        67.200134
0.57749     8.581287        21.493148       0.994746
0.000147    0.690662        60.175813
0.71833     8.581287        21.493148       0.994746
0.000147    0.273349        55.148328
0.85916     8.581287        21.493148       0.994746
0.000147    0.216451        58.755146
1.00000     8.581287        21.493148       0.994746
0.000147    0.894609        70.184347

COMB DL-G3-3 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -2.226983       -79.753711      -1.618200
-0.001511   -1.816558       -142.084772
0.57749     -2.226983       -79.753711      -1.618200
-0.001511   -1.137427       -110.047199
0.71833     -2.226983       -79.753711      -1.618200
-0.001511   -0.459200       -79.939417
0.85916     -2.226983       -79.753711      -1.618200
-0.001511   -0.143033       -65.041169
1.00000     -2.226983       -79.753711      -1.618200
-0.001511   -0.561103       -57.858331

COMB DL-G3-4 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     9.065539        62.647463       1.159063
0.003045    1.287461        165.860654
0.57749     9.065539        62.647463       1.159063
0.003045    0.801811        142.587384
0.71833     9.065539        62.647463       1.159063
0.003045    0.316763        125.909751
0.85916     9.065539        62.647463       1.159063
0.003045    0.261335        122.474058
1.00000     9.065539        62.647463       1.159063
0.003045    1.032234        125.571496

COMB DL-G3-4 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -6.505947       -99.602068      -1.840801
-0.003703   -2.054087       -140.563617
0.57749     -6.505947       -99.602068      -1.840801
-0.003703   -1.285010       -103.992532
0.71833     -6.505947       -99.602068      -1.840801
-0.003703   -0.517701       -76.236618
0.85916     -6.505947       -99.602068      -1.840801
-0.003703   -0.176892       -60.817270
1.00000     -6.505947       -99.602068      -1.840801
-0.003703   -0.657578       -52.029868

COMB      DB ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     10.038612       91.083318       0.718845
0.007970    0.801740        180.129925
0.57749     10.038612       91.083318       0.718845
0.007970    0.500339        149.597089
0.71833     10.038612       91.083318       0.718845
0.007970    0.198939        127.254642
0.85916     10.038612       91.083318       0.718845
0.007970    0.178679        116.851818
1.00000     10.038612       91.083318       0.718845
0.007970    0.665010        126.879369

COMB      DB ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -11.700730      -131.120861     -1.161516
-0.006290   -1.283114       -141.589939
0.57749     -11.700730      -131.120861     -1.161516
-0.006290   -0.801822       -106.245835
0.71833     -11.700730      -131.120861     -1.161516
-0.006290   -0.321964       -80.110898
0.85916     -11.700730      -131.120861     -1.161516
-0.006290   -0.114263       -68.332911
1.00000     -11.700730      -131.120861     -1.161516
-0.006290   -0.409211       -56.883604
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2729

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     9.775110        84.552895       1.159063
0.007950    1.287461        180.995229
0.57749     9.775110        84.552895       1.159063
0.007950    0.801811        152.270174
0.71833     9.775110        84.552895       1.159063
0.007950    0.316763        130.828274
0.85916     9.775110        84.552895       1.159063
0.007950    0.319824        124.532707
1.00000     9.775110        84.552895       1.159063
0.007950    1.216274        132.259919

COMB      DL ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -10.627070      -120.673171     -2.140838
-0.006258   -2.374958       -142.563617
0.57749     -10.627070      -120.673171     -2.140838
-0.006258   -1.482065       -110.047199
0.71833     -10.627070      -120.673171     -2.140838
-0.006258   -0.591941       -89.440778
0.85916     -10.627070      -120.673171     -2.140838
-0.006258   -0.176892       -76.749110
1.00000     -10.627070      -120.673171     -2.140838
-0.006258   -0.657578       -64.784818

COMB      CAR ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     10.038612       91.083318       1.159063
0.007970    1.287461        180.995229
0.57749     10.038612       91.083318       1.159063
0.007970    0.801811        152.270174
0.71833     10.038612       91.083318       1.159063
0.007970    0.316763        130.828274
0.85916     10.038612       91.083318       1.159063
0.007970    0.319824        124.532707
1.00000     10.038612       91.083318       1.159063
0.007970    1.216274        132.259919

COMB      CAR ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -11.700730      -131.120861     -2.140838
-0.006290   -2.374958       -142.563617
0.57749     -11.700730      -131.120861     -2.140838
-0.006290   -1.482065       -110.047199
0.71833     -11.700730      -131.120861     -2.140838
-0.006290   -0.591941       -89.440778
0.85916     -11.700730      -131.120861     -2.140838
-0.006290   -0.176892       -76.749110
1.00000     -11.700730      -131.120861     -2.140838
-0.006290   -0.657578       -64.784818

COMB      DESIGN ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.43666     10.038612       91.083318       1.159063
0.007970    1.287461        180.995229
0.57749     10.038612       91.083318       1.159063
0.007970    0.801811        152.270174
0.71833     10.038612       91.083318       1.159063
0.007970    0.316763        130.828274
0.85916     10.038612       91.083318       1.159063
0.007970    0.319824        124.532707
1.00000     10.038612       91.083318       1.159063
0.007970    1.216274        132.259919

COMB      DESIGN ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.43666     -11.700730      -131.120861     -2.140838
-0.006290   -2.374958       -142.563617
0.57749     -11.700730      -131.120861     -2.140838
-0.006290   -1.482065       -110.047199
0.71833     -11.700730      -131.120861     -2.140838
-0.006290   -0.591941       -89.440778
0.85916     -11.700730      -131.120861     -2.140838
-0.006290   -0.176892       -76.749110
1.00000     -11.700730      -131.120861     -2.140838
-0.006290   -0.657578       -64.784818
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2730

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      251 ========== LENGTH =    2.977225

COMB DB-G1-1 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     1.305606        61.752416       0.408274
0.001462    0.230955        3.116728
0.14084     1.305606        61.752416       0.408274
0.001462    0.059750        3.443913
0.28168     1.305606        61.752416       0.408274
0.001462    0.150299        8.132243
0.42251     1.305606        61.752416       0.408274
0.001462    0.240842        14.231186
0.56335     1.305606        61.752416       0.408274
0.001462    0.577820        20.464647

COMB DB-G1-1 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000     -8.235005       -15.101746      -0.510077
-7.39E-06   -0.277756       -24.607539
0.14084     -8.235005       -15.101746      -0.510077
-7.39E-06   -0.063998       -49.866664
0.28168     -8.235005       -15.101746      -0.510077
-7.39E-06   0.149441        -75.638022
0.42251     -8.235005       -15.101746      -0.510077
-7.39E-06   -0.282638       -101.478669
0.56335     -8.235005       -15.101746      -0.510077
-7.39E-06   -0.453830       -127.345169

COMB DB-G1-2 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     2.274825        156.260269      0.574251
0.008174    0.337854        117.691051
0.14084     2.274825        156.260269      0.574251
0.008174    0.105123        93.047626
0.28168     2.274825        156.260269      0.574251
0.008174    0.242094        74.070323
0.42251     2.274825        156.260269      0.574251
0.008174    0.587526        75.037637
0.56335     2.274825        156.260269      0.574251
0.008174    0.938660        88.753240

COMB DB-G1-2 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000     -15.609763      -38.433571      -0.855203
-0.006093   -0.496030       -14.067960
0.14084     -15.609763      -38.433571      -0.855203
-0.006093   -0.138786       -46.868252
0.28168     -15.609763      -38.433571      -0.855203
-0.006093   -0.160086       -80.784424
0.42251     -15.609763      -38.433571      -0.855203
-0.006093   -0.400859       -118.113515
0.56335     -15.609763      -38.433571      -0.855203
-0.006093   -0.641636       -176.577812

COMB DB-G1-3 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     6.194220        129.256746      0.608417
0.005904    0.352807        112.713251
0.14084     6.194220        129.256746      0.608417
0.005904    0.102670        117.154165
0.28168     6.194220        129.256746      0.608417
0.005904    0.307301        127.113053
0.42251     6.194220        129.256746      0.608417
0.005904    0.755560        150.829916
0.56335     6.194220        129.256746      0.608417
0.005904    1.207759        183.468146

COMB DB-G1-3 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000     -13.375652      -81.788636      -1.090614
-0.004140   -0.621746       -14.106901
0.14084     -13.375652      -81.788636      -1.090614
-0.004140   -0.165330       -46.161747
0.28168     -13.375652      -81.788636      -1.090614
-0.004140   -0.168880       -78.993547
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2731

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
       T          M2             M3
0.42251     -13.375652      -81.788636      -1.090614
-0.004140   -0.423994       -114.093781
0.56335     -13.375652      -81.788636      -1.090614
-0.004140   -0.679101       -163.562182

COMB DB-G1-4 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     7.828024        113.513854      0.710325
0.004934    0.408075        97.095096
0.14084     7.828024        113.513854      0.710325
0.004934    0.114720        98.689347
0.28168     7.828024        113.513854      0.710325
0.004934    0.324411        107.944505
0.42251     7.828024        113.513854      0.710325
0.004934    0.803517        129.872848
0.56335     7.828024        113.513854      0.710325
0.004934    1.285890        159.417900

COMB DB-G1-4 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000     -11.652652      -80.727186      -1.160519
-0.004093   -0.660822       -33.471625
0.14084     -11.652652      -80.727186      -1.160519
-0.004093   -0.174885       -55.780593
0.28168     -11.652652      -80.727186      -1.160519
-0.004093   -0.196760       -78.926295
0.42251     -11.652652      -80.727186      -1.160519
-0.004093   -0.494606       -105.225512
0.56335     -11.652652      -80.727186      -1.160519
-0.004093   -0.792449       -144.569048

COMB DB-G2-1 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     2.518871        63.978151       0.143387
0.005346    0.091393        124.209453
0.14084     2.518871        63.978151       0.143387
0.005346    0.037941        116.231763
0.28168     2.518871        63.978151       0.143387
0.005346    0.102338        108.401329
0.42251     2.518871        63.978151       0.143387
0.005346    0.252867        116.631369
0.56335     2.518871        63.978151       0.143387
0.005346    0.408169        135.607610

COMB DB-G2-1 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000     -4.954605       -49.524542      -0.385198
-0.005094   -0.237920       -1.998181
0.14084     -4.954605       -49.524542      -0.385198
-0.005094   -0.077393       -1.868230
0.28168     -4.954605       -49.524542      -0.385198
-0.005094   -0.042427       -2.373043
0.42251     -4.954605       -49.524542      -0.385198
-0.005094   -0.122863       -5.675564
0.56335     -4.954605       -49.524542      -0.385198
-0.005094   -0.162688       -26.626941

COMB DB-G2-2 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     6.907106        64.848303       0.293828
0.005016    0.175150        127.143385
0.14084     6.907106        64.848303       0.293828
0.005016    0.058183        130.666838
0.28168     6.907106        64.848303       0.293828
0.005016    0.199410        138.031221
0.42251     6.907106        64.848303       0.293828
0.005016    0.498549        160.792129
0.56335     6.907106        64.848303       0.293828
0.005016    0.802191        193.728194

COMB DB-G2-2 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000     -4.991255       -83.643795      -0.737983
-0.005041   -0.435582       -13.188129
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2732

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
       T          M2             M3
0.14084     -4.991255       -83.643795      -0.737983
-0.005041   -0.127013       -11.732345
0.28168     -4.991255       -83.643795      -0.737983
-0.005041   -0.083879       -11.090260
0.42251     -4.991255       -83.643795      -0.737983
-0.005041   -0.207078       -14.794474
0.56335     -4.991255       -83.643795      -0.737983
-0.005041   -0.330281       -36.464350

COMB DB-G2-3 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     7.065888        115.051598      0.535802
0.004719    0.309336        119.657346
0.14084     7.065888        115.051598      0.535802
0.004719    0.089050        112.762205
0.28168     7.065888        115.051598      0.535802
0.004719    0.288646        126.372522
0.42251     7.065888        115.051598      0.535802
0.004719    0.714987        152.228990
0.56335     7.065888        115.051598      0.535802
0.004719    1.144566        185.823109

COMB DB-G2-3 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000     -10.971200      -84.704805      -1.034305
-0.003628   -0.590369       -16.672854
0.14084     -10.971200      -84.704805      -1.034305
-0.003628   -0.157473       -20.471155
0.28168     -10.971200      -84.704805      -1.034305
-0.003628   -0.148870       -48.319359
0.42251     -10.971200      -84.704805      -1.034305
-0.003628   -0.373574       -79.604272
0.56335     -10.971200      -84.704805      -1.034305
-0.003628   -0.598238       -123.909300

COMB DB-G2-4 ---------- MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     8.162412        102.828065      0.671812
0.003941    0.384822        104.718574
0.14084     8.162412        102.828065      0.671812
0.003941    0.106784        96.131743
0.28168     8.162412        102.828065      0.671812
0.003941    0.304276        105.168618
0.42251     8.162412        102.828065      0.671812
0.003941    0.759111        126.572171
0.56335     8.162412        102.828065      0.671812
0.003941    1.216648        154.452410

COMB DB-G2-4 ---------- MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000     -9.763699       -78.907771      -1.099390
```

```
-0.003716   -0.627424   -38.288760
0.14084     -9.763699   -78.907771    -1.099390
-0.003716   -0.167026   -38.237768
0.28168     -9.763699   -78.907771    -1.099390
-0.003716   -0.165979   -58.183891
0.42251     -9.763699   -78.907771    -1.099390
-0.003716   -0.467733   -80.722770
0.56335     -9.763699   -78.907771    -1.099390
-0.003716   -0.749426   -113.944427

COMB DB-G3-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     3.281672   11.130921    0.358496
 1.21E-05   0.202201    9.689546
0.14084     3.281672   11.130921    0.358496
 1.21E-05   0.051802    5.575774
0.28168     3.281672   11.130921    0.358496
 1.21E-05   0.101122    2.560634
0.42251     3.281672   11.130921    0.358496
 1.21E-05   0.255463    1.536815
0.56335     3.281672   11.130921    0.358496
 1.21E-05   0.409808    2.315059
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2733

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -1.028218   -11.439389   -0.368114
-0.001115   -0.207603   -39.064153
0.14084    -1.028218   -11.439389   -0.368114
-0.001115   -0.053317   -34.655195
0.28168    -1.028218   -11.439389   -0.368114
-0.001115   -0.098446   -30.447328
0.42251    -1.028218   -11.439389   -0.368114
-0.001115   -0.248774   -26.282408
0.56335    -1.028218   -11.439389   -0.368114
-0.001115   -0.399093   -22.222013

COMB DB-G3-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     6.869493   19.238636    0.564113
 0.000301   0.318155   16.962270
0.14084     6.869493   19.238636    0.564113
 0.000301   0.081766   12.641797
0.28168     6.869493   19.238636    0.564113
 0.000301   0.184210   14.231705
0.42251     6.869493   19.238636    0.564113
 0.000301   0.465417   20.256488
0.56335     6.869493   19.238636    0.564113
 0.000301   0.746812   28.367610

COMB DB-G3-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -1.724296   -32.995226   -0.671684
-0.001995   -0.379767   -56.904646
0.14084    -1.724296   -32.995226   -0.671684
-0.001995   -0.099694   -48.517603
0.28168    -1.724296   -32.995226   -0.671684
-0.001995   -0.155401   -40.907007
0.42251    -1.724296   -32.995226   -0.671684
-0.001995   -0.391953   -35.645857
0.56335    -1.724296   -32.995226   -0.671684
-0.001995   -0.628489   -32.963119

COMB DB-G3-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     9.609568   20.998349    0.575883
 0.000361   0.324365   61.024284
0.14084     9.609568   20.998349    0.575883
 0.000361   0.083221   80.732591
0.28168     9.609568   20.998349    0.575883
 0.000361   0.252331   104.789792
0.42251     9.609568   20.998349    0.575883
 0.000361   0.636808   132.768825
0.56335     9.609568   20.998349    0.575883
 0.000361   1.021627   163.018808

COMB DB-G3-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -2.061295   -84.464928   -0.918731
-0.001725   -0.511309   -81.012975
0.14084    -2.061295   -84.464928   -0.918731
-0.001725   -0.135612   -45.539150
0.28168    -2.061295   -84.464928   -0.918731
-0.001725   -0.159406   -40.326302
0.42251    -2.061295   -84.464928   -0.918731
-0.001725   -0.400880   -36.816098
0.56335    -2.061295   -84.464928   -0.918731
-0.001725   -0.642350   -35.691860

COMB DB-G3-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     8.406975   96.576377    0.663507
 0.004153   0.381173   119.728713
0.14084     8.406975   96.576377    0.663507
 0.004153   0.107213   106.794128
0.28168     8.406975   96.576377    0.663507
 0.004153   0.293769   109.025670
0.42251     8.406975   96.576377    0.663507
 0.004153   0.733284   126.071886
0.56335     8.406975   96.576377    0.663507
 0.004153   1.175982   152.809510
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2734

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -8.515520   -77.326249   -1.065476
-0.004495   -0.611090   -45.392070
0.14084    -8.515520   -77.326249   -1.065476
-0.004495   -0.166402   -38.778639
0.28168    -8.515520   -77.326249   -1.065476
-0.004495   -0.184095   -48.931393
0.42251    -8.515520   -77.326249   -1.065476
-0.004495   -0.462329   -65.054344
0.56335    -8.515520   -77.326249   -1.065476
-0.004495   -0.740550   -93.757284

COMB DL-G1-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     2.264666   58.001247    0.518152
 0.001524   0.293641    4.113528
0.14084     2.264666   58.001247    0.518152
 0.001524   0.076510    4.211044
0.28168     2.264666   58.001247    0.518152
 0.001524   0.306813    9.150645
0.42251     2.264666   58.001247    0.518152
 0.001524   0.752854   16.428136
0.56335     2.264666   58.001247    0.518152
 0.001524   1.198846   23.925514

COMB DL-G1-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -7.242556   -19.124447   -1.064279
-4.42E-06   -0.586569   -36.780315
0.14084     -7.242556   -19.124447   -1.064279
-4.42E-06   -0.140963   -55.166249
0.28168     -7.242556   -19.124447   -1.064279
-4.42E-06   -0.140555   -76.643997
0.42251     -7.242556   -19.124447   -1.064279
-4.42E-06   -0.357708   -100.238622
0.56335     -7.242556   -19.124447   -1.064279
-4.42E-06   -0.574898   -124.094187

COMB DL-G1-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     3.096934   147.403191    0.838197
 0.008342   0.488138   126.454381
0.14084     3.096934   147.403191    0.838197
 0.008342   0.147992   101.127374
0.28168     3.096934   147.403191    0.838197
 0.008342   0.428991   81.670098
0.42251     3.096934   147.403191    0.838197
 0.008342   1.060272   82.481690
0.56335     3.096934   147.403191    0.838197
 0.008342   1.693738   96.499078

COMB DL-G1-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -14.568052   -41.882313   -1.535398
-0.006141   -0.882534   -28.095599
0.14084    -14.568052   -41.882313   -1.535398
-0.006141   -0.240655   -51.228957
0.28168    -14.568052   -41.882313   -1.535398
-0.006141   -0.230766   -78.772755
0.42251    -14.568052   -41.882313   -1.535398
-0.006141   -0.580195   -112.352078
0.56335    -14.568052   -41.882313   -1.535398
-0.006141   -0.930345   -170.926290

COMB DL-G1-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     6.449684   124.261495    0.937086
 0.006235   0.539198   128.114033
0.14084     6.449684   124.261495    0.937086
 0.006235   0.153798   128.092895
0.28168     6.449684   124.261495    0.937086
 0.006235   0.528533   133.530087
0.42251     6.449684   124.261495    0.937086
 0.006235   1.312628   154.049819
0.56335     6.449684   124.261495    0.937086
 0.006235   2.099169   184.015183
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2735

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -12.533148   -78.388005   -1.892737
-0.004496   -1.074297   -26.684003
0.14084    -12.533148   -78.388005   -1.892737
-0.004496   -0.282846   -49.788477
0.28168    -12.533148   -78.388005   -1.892737
-0.004496   -0.258292   -76.761247
0.42251    -12.533148   -78.388005   -1.892737
-0.004496   -0.649713   -108.462359
0.56335    -12.533148   -78.388005   -1.892737
-0.004496   -1.041547   -157.910352

COMB DL-G1-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     7.901379   110.579064    1.091357
 0.005204   0.624240   110.621144
0.14084     7.901379   110.579064    1.091357
 0.005204   0.172813   108.039165
0.28168     7.901379   110.579064    1.091357
 0.005204   0.590461   112.998503
0.42251     7.901379   110.579064    1.091357
 0.005204   1.471744   132.192918
0.56335     7.901379   110.579064    1.091357
 0.005204   2.355070   159.571666

COMB DL-G1-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -10.943940   -78.644444   -2.120389
-0.004348   -1.200095   -45.070839
0.14084    -10.943940   -78.644444   -2.120389
-0.004348   -0.312793   -59.785541
0.28168    -10.943940   -78.644444   -2.120389
-0.004348   -0.300511   -79.375913
0.42251    -10.943940   -78.644444   -2.120389
-0.004348   -0.756931   -104.268937
0.56335    -10.943940   -78.644444   -2.120389
-0.004348   -1.213675   -144.212467

COMB DL-G2-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     2.180268   53.798412    0.279859
 0.004656   0.164810   124.967100
0.14084     2.180268   53.798412    0.279859
 0.004656   0.056339   120.254518
0.28168     2.180268   53.798412    0.279859
 0.004656   0.125974   116.033154
0.42251     2.180268   53.798412    0.279859
 0.004656   0.316043   125.348801
0.56335     2.180268   53.798412    0.279859
 0.004656   0.507570   141.786620

COMB DL-G2-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -4.652215   -47.113151   -0.474125
-0.004303   -0.288698   -2.478149
0.14084    -4.652215   -47.113151   -0.474125
-0.004303   -0.090674   -1.958927
0.28168    -4.652215   -47.113151   -0.474125
-0.004303   -0.092810   -2.109367
0.42251    -4.652215   -47.113151   -0.474125
-0.004303   -0.198075   -5.097743
0.56335    -4.652215   -47.113151   -0.474125
-0.004303   -0.314267   -25.506511

COMB DL-G2-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     6.225281   57.559974    0.547698
 0.004412   0.316755   132.274710
0.14084     6.225281   57.559974    0.547698
 0.004412   0.094035   136.333165
0.28168     6.225281   57.559974    0.547698
 0.004412   0.309764   144.192732
0.42251     6.225281   57.559974    0.547698
 0.004412   0.777614   164.896324
0.56335     6.225281   57.559974    0.547698
 0.004412   1.247330   194.483326
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2736

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -4.669025   -76.753457   -1.136195
-0.004378   -0.656850   -12.885890
0.14084     -4.669025   -76.753457   -1.136195
-0.004378   -0.182057   -11.373765
0.28168     -4.669025   -76.753457   -1.136195
-0.004378   -0.154956   -11.942221
0.42251     -4.669025   -76.753457   -1.136195
-0.004378   -0.383237   -15.877841
0.56335     -4.669025   -76.753457   -1.136195
-0.004378   -0.611700   -36.795710

COMB DL-G2-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     6.848101   103.327625    0.875093
 0.004075   0.498827   126.250920
0.14084     6.848101   103.327625    0.875093
 0.004075   0.136227   118.235366
0.28168     6.848101   103.327625    0.875093
 0.004075   0.478020   132.526659
0.42251     6.848101   103.327625    0.875093
 0.004075   1.194385   157.920013
0.56335     6.848101   103.327625    0.875093
 0.004075   1.912113   189.550011

COMB DL-G2-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000     -9.947831   -81.051723   -1.721887
-0.002915   -0.974328   -17.929955
0.14084     -9.947831   -81.051723   -1.721887
-0.002915   -0.254209   -19.005105
0.28168     -9.947831   -81.051723   -1.721887
-0.002915   -0.242685   -43.761084
0.42251     -9.947831   -81.051723   -1.721887
-0.002915   -0.608527   -72.886657
0.56335     -9.947831   -81.051723   -1.721887
-0.002915   -0.974847   -113.421467

COMB DL-G2-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     7.816077   94.819581    1.091373
 0.003407   0.619800   111.404664
0.14084     7.816077   94.819581    1.091373
 0.003407   0.165808   101.520714
0.28168     7.816077   94.819581    1.091373
 0.003407   0.545297   110.443332
0.42251     7.816077   94.819581    1.091373
 0.003407   1.368892   131.355463
0.56335     7.816077   94.819581    1.091373
 0.003407   2.193380   157.540733

COMB DL-G2-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000     -9.026050   -77.515069   -1.974767
-0.003146   -1.117139   -42.946658
0.14084     -9.026050   -77.515069   -1.974767
-0.003146   -0.290635   -39.900476
0.28168     -9.026050   -77.515069   -1.974767
-0.003146   -0.301590   -57.074324
0.42251     -9.026050   -77.515069   -1.974767
-0.003146   -0.758439   -79.921071
0.56335     -9.026050   -77.515069   -1.974767
-0.003146   -1.215541   -112.289946

COMB DL-G3-1 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     3.009921   14.083039    0.593405
 9.48E-06   0.334021   12.479369
0.14084     3.009921   14.083039    0.593405
 9.48E-06   0.084624    7.036916
0.28168     3.009921   14.083039    0.593405
 9.48E-06   0.219841    2.392494
0.42251     3.009921   14.083039    0.593405
 9.48E-06   0.559545    1.903461
0.56335     3.009921   14.083039    0.593405
 9.48E-06   0.899102    2.717110
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2737

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -1.463011   -13.590541   -0.809671
-0.001177   -0.118574   -46.274553
0.14084    -1.463011   -13.590541   -0.809671
-0.001177   -0.118574   -41.001562
0.28168    -1.463011   -13.590541   -0.809671
-0.001177   -0.163224   -36.055855
0.42251    -1.463011   -13.590541   -0.809671
-0.001177   -0.412150   -34.865393
0.56335    -1.463011   -13.590541   -0.809671
-0.001177   -0.661082   -34.251174

COMB DL-G3-2 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     6.576495   22.732712    0.913831
 0.000227   0.514837   19.509302
0.14084     6.576495   22.732712    0.913831
 0.000227   0.131379   13.981880
0.28168     6.576495   22.732712    0.913831
 0.000227   0.400020   14.207695
0.42251     6.576495   22.732712    0.913831
 0.000227   1.017007   20.558317
0.56335     6.576495   22.732712    0.913831
 0.000227   1.621790   29.353655

COMB DL-G3-2 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -2.059378   -35.344065   -1.456906
-0.001940   -0.820785   -64.812270
0.14084    -2.059378   -35.344065   -1.456906
-0.001940   -0.210131   -54.993415
0.28168    -2.059378   -35.344065   -1.456906
-0.001940   -0.251476   -48.415459
0.42251    -2.059378   -35.344065   -1.456906
-0.001940   -0.634799   -47.103804
0.56335    -2.059378   -35.344065   -1.456906
-0.001940   -1.018038   -47.321411

COMB DL-G3-3 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     8.699140   21.506532    0.974046
 4.40E-05   0.547117   70.176142
0.14084     8.699140   21.506532    0.974046
 4.40E-05   0.137619   87.206472
0.28168     8.699140   21.506532    0.974046
 4.40E-05   0.465150   108.264596
0.42251     8.699140   21.506532    0.974046
 4.40E-05   1.176327   134.685638
0.56335     8.699140   21.506532    0.974046
 4.40E-05   1.887888   162.359366

COMB DL-G3-3 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -2.240093   -80.350690   -1.696384
-0.001465   -0.954667   -57.872557
0.14084    -2.240093   -80.350690   -1.696384
-0.001465   -0.244233   -51.168388
0.28168    -2.240093   -80.350690   -1.696384
-0.001465   -0.269979   -46.358292
0.42251    -2.240093   -80.350690   -1.696384
-0.001465   -0.678714   -46.104890
0.56335    -2.240093   -80.350690   -1.696384
-0.001465   -1.086985   -46.638312

COMB DL-G3-4 ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     7.855458   87.243203    1.127162
 0.003270   0.639385   125.568117
0.14084     7.855458   87.243203    1.127162
 0.003270   0.170822   113.316842
0.28168     7.855458   87.243203    1.127162
 0.003270   0.523502   115.952560
0.42251     7.855458   87.243203    1.127162
 0.003270   1.318193   133.861098
0.56335     7.855458   87.243203    1.127162
 0.003270   2.114114   159.110676
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2738

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -8.062164   -76.325099   -1.907246
-0.003644   -1.083062   -52.031302
0.14084    -8.062164   -76.325099   -1.907246
-0.003644   -0.284756   -43.987263
0.28168    -8.062164   -76.325099   -1.907246
-0.003644   -0.312683   -51.471413
0.42251    -8.062164   -76.325099   -1.907246
-0.003644   -0.784611   -68.535928
0.56335    -8.062164   -76.325099   -1.907246
-0.003644   -1.256683   -96.537577

COMB    DB ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     9.609568   156.260269    0.710325
 0.008174   0.408075   127.143385
0.14084     9.609568   156.260269    0.710325
 0.008174   0.114720   130.666838
0.28168     9.609568   156.260269    0.710325
 0.008174   0.324411   138.031221
0.42251     9.609568   156.260269    0.710325
 0.008174   0.803517   160.792129
0.56335     9.609568   156.260269    0.710325
 0.008174   1.285890   193.728194

COMB    DB ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -15.609763   -84.704805   -1.160519
-0.006093   -0.660822   -56.904646
0.14084    -15.609763   -84.704805   -1.160519
-0.006093   -0.174885   -55.780993
0.28168    -15.609763   -84.704805   -1.160519
-0.006093   -0.196760   -80.784424
0.42251    -15.609763   -84.704805   -1.160519
-0.006093   -0.494606   -118.113515
0.56335    -15.609763   -84.704805   -1.160519
-0.006093   -0.792449   -176.577812

COMB    DL ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     8.699140   147.403191    1.127162
 0.008342   0.639385   132.274710
0.14084     8.699140   147.403191    1.127162
 0.008342   0.172813   136.333165
0.28168     8.699140   147.403191    1.127162
 0.008342   0.590461   144.192732
0.42251     8.699140   147.403191    1.127162
 0.008342   1.471744   164.896324
0.56335     8.699140   147.403191    1.127162
 0.008342   2.355070   194.483326

COMB    DL ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -14.568052   -81.051723   -2.120389
-0.006141   -1.200095   -64.812270
0.14084    -14.568052   -81.051723   -2.120389
-0.006141   -0.312793   -59.785541
0.28168    -14.568052   -81.051723   -2.120389
-0.006141   -0.312683   -79.375913
0.42251    -14.568052   -81.051723   -2.120389
-0.006141   -0.784611   -112.352078
0.56335    -14.568052   -81.051723   -2.120389
-0.006141   -1.256683   -170.926290

COMB    CAR ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     9.609568   156.260269    1.127162
 0.008342   0.639385   132.274710
0.14084     9.609568   156.260269    1.127162
 0.008342   0.172813   136.333165
0.28168     9.609568   156.260269    1.127162
 0.008342   0.590461   144.192732
0.42251     9.609568   156.260269    1.127162
 0.008342   1.471744   164.896324
0.56335     9.609568   156.260269    1.127162
 0.008342   2.355070   194.483326
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              2739

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB    CAR ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -15.609763   -84.704805   -2.120389
-0.006141   -1.200095   -64.812270
0.14084    -15.609763   -84.704805   -2.120389
-0.006141   -0.312793   -59.785541
0.28168    -15.609763   -84.704805   -2.120389
-0.006141   -0.312683   -80.784424
0.42251    -15.609763   -84.704805   -2.120389
-0.006141   -0.784611   -118.113515
0.56335    -15.609763   -84.704805   -2.120389
-0.006141   -1.256683   -176.577812

COMB  DESIGN ------------------- MAX

REL DIST         P          V2          V3
       T         M2         M3
0.00000     9.609568   156.260269    1.127162
 0.008342   0.639385   132.274710
0.14084     9.609568   156.260269    1.127162
 0.008342   0.172813   136.333165
0.28168     9.609568   156.260269    1.127162
 0.008342   0.590461   144.192732
0.42251     9.609568   156.260269    1.127162
 0.008342   1.471744   164.896324
0.56335     9.609568   156.260269    1.127162
 0.008342   2.355070   194.483326

COMB  DESIGN ------------------- MIN

REL DIST         P          V2          V3
       T         M2         M3
0.00000    -15.609763   -84.704805   -2.120389
-0.006141   -1.200095   -64.812270
0.14084    -15.609763   -84.704805   -2.120389
-0.006141   -0.312793   -59.785541
0.28168    -15.609763   -84.704805   -2.120389
-0.006141   -0.312683   -80.784424
0.42251    -15.609763   -84.704805   -2.120389
-0.006141   -0.784611   -118.113515
0.56335    -15.609763   -84.704805   -2.120389
-0.006141   -1.256683   -176.577812
```

ELEM 252 ========== LENGTH = 2.976550

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	0.555402	72.506472	0.403662
0.001216	0.451372	98.658445	
0.57756	0.555402	72.506472	0.403662
0.001216	0.281183	68.319820	
0.71837	0.555402	72.506472	0.403662
0.001216	0.112987	38.052213	
0.85919	0.555402	72.506472	0.403662
0.001216	0.078818	8.103665	
1.00000	0.555402	72.506472	0.403662
0.001216	0.286542	3.013746	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-9.556089	-8.407431	-0.495424
-0.000176	-0.544090	-17.981899	
0.57756	-9.556089	-8.407431	-0.495424
-0.000176	-0.336454	-14.599273	
0.71837	-9.556089	-8.407431	-0.495424
-0.000176	-0.128849	-11.594626	
0.85919	-9.556089	-8.407431	-0.495424
-0.000176	-0.056197	-8.780083	
1.00000	-9.556089	-8.407431	-0.495424
-0.000176	-0.225397	-24.161315	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	5.302038	103.579603	0.602072
0.007721	0.665518	193.073474	
0.57756	5.302038	103.579603	0.602072
0.007721	0.413168	152.182902	
0.71837	5.302038	103.579603	0.602072
0.007721	0.162536	125.402307	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2740

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85919	5.302038	103.579603	0.602072
0.007721	0.144348	116.389682	
1.00000	5.302038	103.579603	0.602072
0.007721	0.464960	123.091964	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-12.057288	-91.681081	-0.768939
-0.006285	-0.824252	-46.698273	
0.57756	-12.057288	-91.681081	-0.768939
-0.006285	-0.502703	-22.403912	
0.71837	-12.057288	-91.681081	-0.768939
-0.006285	-0.201042	-16.309192	
0.85919	-12.057288	-91.681081	-0.768939
-0.006285	-0.104712	-12.168705	
1.00000	-12.057288	-91.681081	-0.768939
-0.006285	-0.343879	-12.036722	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	8.565580	93.728760	0.617570
0.005748	0.685864	185.846442	
0.57756	8.565580	93.728760	0.617570
0.005748	0.427023	149.260698	
0.71837	8.565580	93.728760	0.617570
0.005748	0.169342	123.017500	
0.85919	8.565580	93.728760	0.617570
0.005748	0.149388	110.822063	
1.00000	8.565580	93.728760	0.617570
0.005748	0.523178	122.111640	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-10.998485	-118.555482	-0.894861
-0.004714	-0.977164	-89.471181	
0.57756	-10.998485	-118.555482	-0.894861
-0.004714	-0.602661	-48.800654	
0.71837	-10.998485	-118.555482	-0.894861
-0.004714	-0.241711	-19.217994	
0.85919	-10.998485	-118.555482	-0.894861
-0.004714	-0.099495	-12.276369	
1.00000	-10.998485	-118.555482	-0.894861
-0.004714	-0.349553	-11.264155	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	9.950860	81.306535	0.711082
0.004774	0.790917	162.790385	
0.57756	9.950860	81.306535	0.711082
0.004774	0.492877	130.973675	
0.71837	9.950860	81.306535	0.711082
0.004774	0.195796	107.734808	
0.85919	9.950860	81.306535	0.711082
0.004774	0.154714	96.206105	
1.00000	9.950860	81.306535	0.711082
0.004774	0.550463	104.264570	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-9.831669	-115.107622	-0.946525
-0.004295	-1.037037	-123.227781	
0.57756	-9.831669	-115.107622	-0.946525
-0.004295	-0.640808	-82.700071	
0.71837	-9.831669	-115.107622	-0.946525
-0.004295	-0.256848	-51.837519	
0.85919	-9.831669	-115.107622	-0.946525
-0.004295	-0.110501	-40.166733	
1.00000	-9.831669	-115.107622	-0.946525
-0.004295	-0.401248	-33.024586	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	6.113292	9.603053	0.155719
0.005536	0.164871	53.830258	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2741

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57756	6.113292	9.603053	0.155719
0.005536	0.099596	52.750751	
0.71837	6.113292	9.603053	0.155719
0.005536	0.036216	64.059918	
0.85919	6.113292	9.603053	0.155719
0.005536	0.058428	92.586860	
1.00000	6.113292	9.603053	0.155719
0.005536	0.171303	132.595604	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.670509	-100.635883	-0.272841
-0.005450	-0.286229	-43.429526	
0.57756	-0.670509	-100.635883	-0.272841
-0.005450	-0.172483	-13.282844	
0.71837	-0.670509	-100.635883	-0.272841
-0.005450	-0.075324	-3.254711	
0.85919	-0.670509	-100.635883	-0.272841
-0.005450	-0.041938	-2.468525	
1.00000	-0.670509	-100.635883	-0.272841
-0.005450	-0.096199	-1.756217	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	10.418512	10.125580	0.308883
0.005219	0.339480	59.230460	
0.57756	10.418512	10.125580	0.308883
0.005219	0.210017	58.054998	
0.71837	10.418512	10.125580	0.308883
0.005219	0.081895	68.668325	
0.85919	10.418512	10.125580	0.308883
0.005219	0.091131	95.310412	
1.00000	10.418512	10.125580	0.308883
0.005219	0.303332	137.824466	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-1.267968	-135.070870	-0.509835
-0.005560	-0.552261	-101.910439	
0.57756	-1.267968	-135.070870	-0.509835
-0.005560	-0.339249	-75.301487	
0.71837	-1.267968	-135.070870	-0.509835
-0.005560	-0.143141	-22.886732	
0.85919	-1.267968	-135.070870	-0.509835
-0.005560	-0.059068	-15.588562	
1.00000	-1.267968	-135.070870	-0.509835
-0.005560	-0.178379	-11.733173	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	9.501585	83.218717	0.541977
0.004520	0.601941	196.789033	
0.57756	9.501585	83.218717	0.541977
0.004520	0.374779	164.354206	
0.71837	9.501585	83.218717	0.541977
0.004520	0.148533	140.544564	
0.85919	9.501585	83.218717	0.541977
0.004520	0.131818	128.842650	
1.00000	9.501585	83.218717	0.541977
0.004520	0.466545	132.195754	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-8.664358	-117.525318	-0.801270
-0.004082	-0.877592	-101.858378	
0.57756	-8.664358	-117.525318	-0.801270
-0.004082	-0.542252	-60.108270	
0.71837	-8.664358	-117.525318	-0.801270
-0.004082	-0.219152	-28.118246	
0.85919	-8.664358	-117.525318	-0.801270
-0.004082	-0.086660	-19.874755	
1.00000	-8.664358	-117.525318	-0.801270
-0.004082	-0.306696	-14.436401	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2742

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	10.663250	73.413184	0.668572
0.003782	0.743981	174.637219	
0.57756	10.663250	73.413184	0.668572
0.003782	0.463759	145.594618	
0.71837	10.663250	73.413184	0.668572
0.003782	0.184273	124.433926	
0.85919	10.663250	73.413184	0.668572
0.003782	0.139543	113.027208	
1.00000	10.663250	73.413184	0.668572
0.003782	0.508708	114.128084	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-7.439514	-110.565166	-0.882854
-0.003789	-0.971950	-134.847201	
0.57756	-7.439514	-110.565166	-0.882854
-0.003789	-0.602328	-94.816980	
0.71837	-7.439514	-110.565166	-0.882854
-0.003789	-0.242707	-62.907118	
0.85919	-7.439514	-110.565166	-0.882854
-0.003789	-0.102558	-50.647368	
1.00000	-7.439514	-110.565166	-0.882854
-0.003789	-0.376902	-41.063569	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	4.355901	7.017271	0.344532
7.04E-06	0.385047	18.908802	
0.57756	4.355901	7.017271	0.344532
7.04E-06	0.240642	15.989958	
0.71837	4.355901	7.017271	0.344532
7.04E-06	0.096228	13.096091	
0.85919	4.355901	7.017271	0.344532
7.04E-06	0.048209	10.236114	
1.00000	4.355901	7.017271	0.344532
7.04E-06	0.192359	7.418667	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.269057	-18.091953	-0.343621
-0.000593	-0.383744	-77.491505	
0.57756	-0.269057	-18.091953	-0.343621
-0.000593	-0.239737	-70.040810	
0.71837	-0.269057	-18.091953	-0.343621
-0.000593	-0.095954	-62.276976	
0.85919	-0.269057	-18.091953	-0.343621
-0.000593	-0.048117	-55.267605	
1.00000	-0.269057	-18.091953	-0.343621
-0.000593	-0.192577	-47.934985	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	8.078528	9.799656	0.545260
0.000204	0.608781	26.489986	
0.57756	8.078528	9.799656	0.545260
0.000204	0.380243	22.725624	
0.71837	8.078528	9.799656	0.545260
0.000204	0.151744	19.480354	
0.85919	8.078528	9.799656	0.545260
0.000204	0.085488	16.880231	
1.00000	8.078528	9.799656	0.545260
0.000204	0.322937	14.843339	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-1.286271	-45.389139	-0.568494
-0.001234	-0.632424	-132.659541	
0.57756	-1.286271	-45.389139	-0.568494
-0.001234	-0.394243	-114.593729	
0.71837	-1.286271	-45.389139	-0.568494
-0.001234	-0.158446	-97.647515	
0.85919	-1.286271	-45.389139	-0.568494
-0.001234	-0.077133	-81.089646	
1.00000	-1.286271	-45.389139	-0.568494
-0.001234	-0.305356	-65.247390	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2743

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	11.450038	9.973752	0.560023
0.000595	0.624525	48.329657	
0.57756	11.450038	9.973752	0.560023
0.000595	0.389800	45.673329	
0.71837	11.450038	9.973752	0.560023
0.000595	0.155149	44.750215	
0.85919	11.450038	9.973752	0.560023
0.000595	0.099741	47.963457	
1.00000	11.450038	9.973752	0.560023
0.000595	0.398113	66.172971	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.901341	-97.854923	-0.712169
-0.001584	-0.796602	-160.076513	
0.57756	-0.901341	-97.854923	-0.712169
-0.001584	-0.496239	-119.991379	
0.71837	-0.901341	-97.854923	-0.712169
-0.001584	-0.202108	-82.398592	
0.85919	-0.901341	-97.854923	-0.712169
-0.001584	-0.080228	-69.227287	
1.00000	-0.901341	-97.854923	-0.712169
-0.001584	-0.314383	-58.615507	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	11.961801	58.482910	0.660287
0.004016	0.734192	157.289314	
0.57756	11.961801	58.482910	0.660287
0.004016	0.457431	135.012757	
0.71837	11.961801	58.482910	0.660287
0.004016	0.181593	121.056130	
0.85919	11.961801	58.482910	0.660287
0.004016	0.136054	118.710552	
1.00000	11.961801	58.482910	0.660287
0.004016	0.493623	128.436998	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-5.241439	-117.040787	-0.855398
-0.004431	-0.941084	-147.972908	
0.57756	-5.241439	-117.040787	-0.855398
-0.004431	-0.583049	-106.367441	
0.71837	-5.241439	-117.040787	-0.855398
-0.004431	-0.236854	-74.119779	
0.85919	-5.241439	-117.040787	-0.855398
-0.004431	-0.103148	-61.364961	
1.00000	-5.241439	-117.040787	-0.855398
-0.004431	-0.372858	-51.176760	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	0.663121	71.849106	0.522122
0.001119	0.584054	95.663369	
0.57756	0.663121	71.849106	0.522122
0.001119	0.365145	65.976482	
0.71837	0.663121	71.849106	0.522122
0.001119	0.146199	36.664463	
0.85919	0.663121	71.849106	0.522122
0.001119	0.158258	8.773749	
1.00000	0.663121	71.849106	0.522122
0.001119	0.604659	3.911374	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-9.716726	-10.102473	-1.064683
-0.000163	-1.180173	-24.256615	
0.57756	-9.716726	-10.102473	-1.064683
-0.000163	-0.733875	-20.424144	
0.71837	-9.716726	-10.102473	-1.064683
-0.000163	-0.287560	-17.096555	
0.85919	-9.716726	-10.102473	-1.064683
-0.000163	-0.071857	-15.068611	
1.00000	-9.716726	-10.102473	-1.064683
-0.000163	-0.290458	-34.443858	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2744

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	6.046316	101.099025	0.859181
0.007600	0.950308	195.037468	
0.57756	6.046316	101.099025	0.859181
0.007600	0.591294	158.029580	
0.71837	6.046316	101.099025	0.859181
0.007600	0.233857	133.982837	
0.85919	6.046316	101.099025	0.859181
0.007600	0.123717	126.376325	
1.00000	6.046316	101.099025	0.859181
0.007600	0.830513	134.291755	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-11.880416	-90.486687	-1.418188
-0.006395	-1.547508	-57.907758	
0.57756	-11.880416	-90.486687	-1.418188
-0.006395	-0.957628	-28.947527	
0.71837	-11.880416	-90.486687	-1.418188
-0.006395	-0.382321	-21.990152	
0.85919	-11.880416	-90.486687	-1.418188
-0.006395	-0.144937	-17.068589	
1.00000	-11.880416	-90.486687	-1.418188
-0.006395	-0.489009	-23.623605	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	8.717895	91.019548	0.873792
0.005804	0.968666	183.090436	
0.57756	8.717895	91.019548	0.873792
0.005804	0.602960	150.490654	
0.71837	8.717895	91.019548	0.873792
0.005804	0.238501	128.730059	
0.85919	8.717895	91.019548	0.873792
0.005804	0.252317	125.920728	
1.00000	8.717895	91.019548	0.873792
0.005804	0.922339	141.054883	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-10.929325	-114.039512	-1.602406
-0.004813	-1.763294	-89.792397	
0.57756	-10.929325	-114.039512	-1.602406
-0.004813	-1.095109	-49.759675	
0.71837	-10.929325	-114.039512	-1.602406
-0.004813	-0.437668	-25.942462	
0.85919	-10.929325	-114.039512	-1.602406
-0.004813	-0.139965	-16.826636	
1.00000	-10.929325	-114.039512	-1.602406
-0.004813	-0.495262	-21.705218	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	9.849479	79.644576	0.989033
0.004821	1.098462	162.065188	
0.57756	9.849479	79.644576	0.989033
0.004821	0.684336	133.331337	
0.71837	9.849479	79.644576	0.989033
0.004821	0.271197	113.617791	
0.85919	9.849479	79.644576	0.989033
0.004821	0.270966	109.638634	
1.00000	9.849479	79.644576	0.989033
0.004821	1.011019	120.591332	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-9.781605	-113.811691	-1.768916
-0.004342	-1.953541	-130.173311	
0.57756	-9.781605	-113.811691	-1.768916
-0.004342	-1.214894	-89.125613	
0.71837	-9.781605	-113.811691	-1.768916
-0.004342	-0.485467	-61.730168	
0.85919	-9.781605	-113.811691	-1.768916
-0.004342	-0.153334	-46.939061	
1.00000	-9.781605	-113.811691	-1.768916
-0.004342	-0.558930	-43.680352	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2745

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	6.223659	10.031515	0.291810
0.004645	0.316495	60.733486	
0.57756	6.223659	10.031515	0.291810
0.004645	0.195047	62.471271	
0.71837	6.223659	10.031515	0.291810
0.004645	0.074891	75.599561	
0.85919	6.223659	10.031515	0.291810
0.004645	0.063296	103.266996	
1.00000	6.223659	10.031515	0.291810
0.004645	0.194524	136.593596	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.758691	-88.507231	-0.315689
-0.004561	-0.335229	-43.495925	
0.57756	-0.758691	-88.507231	-0.315689
-0.004561	-0.206298	-14.505011	
0.71837	-0.758691	-88.507231	-0.315689
-0.004561	-0.087243	-4.071370	
0.85919	-0.758691	-88.507231	-0.315689
-0.004561	-0.061528	-3.074013	
1.00000	-0.758691	-88.507231	-0.315689
-0.004561	-0.172821	-2.079741	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	9.818588	10.830939	0.458716
0.004494	0.503969	62.827261	
0.57756	9.818588	10.830939	0.458716
0.004494	0.312695	64.129002	
0.71837	9.818588	10.830939	0.458716
0.004494	0.122127	76.302626	
0.85919	9.818588	10.830939	0.458716
0.004494	0.131007	107.767617	
1.00000	9.818588	10.830939	0.458716
0.004494	0.461496	146.811096	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-1.431839	-121.546595	-0.793677
-0.004760	-0.868275	-94.825470	
0.57756	-1.431839	-121.546595	-0.793677
-0.004760	-0.538838	-51.794954	
0.71837	-1.431839	-121.546595	-0.793677
-0.004760	-0.220188	-24.778307	
0.85919	-1.431839	-121.546595	-0.793677
-0.004760	-0.082735	-15.781463	
1.00000	-1.431839	-121.546595	-0.793677
-0.004760	-0.265346	-11.381393	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	9.035063	81.481118	0.776084
0.003697	0.861881	200.461007	
0.57756	9.035063	81.481118	0.776084
0.003697	0.536964	170.973425	
0.71837	9.035063	81.481118	0.776084
0.003697	0.212481	149.411166	
0.85919	9.035063	81.481118	0.776084
0.003697	0.207091	142.876823	
1.00000	9.035063	81.481118	0.776084
0.003697	0.774750	143.335850	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-8.324787	-105.737594	-1.358551
-0.003251	-1.501896	-97.916999	
0.57756	-8.324787	-105.737594	-1.358551
-0.003251	-0.934795	-59.492188	
0.71837	-8.324787	-105.737594	-1.358551
-0.003251	-0.374580	-32.277736	
0.85919	-8.324787	-105.737594	-1.358551
-0.003251	-0.120217	-21.018643	
1.00000	-8.324787	-105.737594	-1.358551
-0.003251	-0.438972	-15.349419	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2746

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	10.313614	72.971033	0.951806
0.003099	1.058785	180.544503	
0.57756	10.313614	72.971033	0.951806
0.003099	0.660194	153.854801	
0.71837	10.313614	72.971033	0.951806
0.003099	0.261955	133.764691	
0.85919	10.313614	72.971033	0.951806
0.003099	0.228238	126.303282	
1.00000	10.313614	72.971033	0.951806
0.003099	0.875798	124.733519	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-7.239515	-104.414217	-1.548369
-0.003078	-1.718983	-142.533539	
0.57756	-7.239515	-104.414217	-1.548369
-0.003078	-1.071702	-103.803468	
0.71837	-7.239515	-104.414217	-1.548369
-0.003078	-0.430416	-74.464256	
0.85919	-7.239515	-104.414217	-1.548369
-0.003078	-0.142981	-58.976816	
1.00000	-7.239515	-104.414217	-1.548369
-0.003078	-0.536470	-47.088116	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	4.612605	8.826441	0.504567
4.13E-06	0.563666	23.982699	
0.57756	4.612605	8.826441	0.504567
4.13E-06	0.352204	20.313859	
0.71837	4.612605	8.826441	0.504567
4.13E-06	0.140487	16.658456	
0.85919	4.612605	8.826441	0.504567
4.13E-06	0.080192	13.022560	
1.00000	4.612605	8.826441	0.504567
4.13E-06	0.336827	9.446545	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.350560	-23.050947	-0.611002
-0.000572	-0.687084	-96.051577	
0.57756	-0.350560	-23.050947	-0.611002
-0.000572	-0.430846	-86.479141	
0.71837	-0.350560	-23.050947	-0.611002
-0.000572	-0.174404	-76.906768	
0.85919	-0.350560	-23.050947	-0.611002
-0.000572	-0.070353	-67.495010	
1.00000	-0.350560	-23.050947	-0.611002
-0.000572	-0.282143	-58.104157	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	7.896044	12.097473	0.768551
0.000132	0.857783	32.734817	
0.57756	7.896044	12.097473	0.768551
0.000132	0.535727	27.952335	
0.71837	7.896044	12.097473	0.768551
0.000132	0.213696	23.468718	
0.85919	7.896044	12.097473	0.768551
0.000132	0.156707	19.499811	
1.00000	7.896044	12.097473	0.768551
0.000132	0.630577	16.595565	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-1.429432	-51.651915	-1.130165
-0.001104	-1.263292	-155.173394	
0.57756	-1.429432	-51.651915	-1.130165
-0.001104	-0.789699	-134.115198	
0.71837	-1.429432	-51.651915	-1.130165
-0.001104	-0.317079	-113.827129	
0.85919	-1.429432	-51.651915	-1.130165
-0.001104	-0.108410	-94.498783	
1.00000	-1.429432	-51.651915	-1.130165
-0.001104	-0.430579	-76.161701	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2747

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	10.947353	11.595083	0.789660
0.000245	0.880480	51.645122	
0.57756	10.947353	11.595083	0.789660
0.000245	0.549677	49.743858	
0.71837	10.947353	11.595083	0.789660
0.000245	0.218547	50.859747	
0.85919	10.947353	11.595083	0.789660
0.000245	0.166142	60.489748	
1.00000	10.947353	11.595083	0.789660
0.000245	0.678433	77.215472	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-1.168558	-95.082109	-1.223172
-0.001147	-1.371034	-170.313615	
0.57756	-1.168558	-95.082109	-1.223172
-0.001147	-0.858559	-133.077651	
0.71837	-1.168558	-95.082109	-1.223172
-0.001147	-0.346622	-98.666654	
0.85919	-1.168558	-95.082109	-1.223172
-0.001147	-0.112051	-81.965935	
1.00000	-1.168558	-95.082109	-1.223172
-0.001147	-0.443691	-68.288600	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	11.582748	59.503948	0.974688
0.003031	1.083842	167.706244	
0.57756	11.582748	59.503948	0.974688
0.003031	0.675484	146.878246	
0.71837	11.582748	59.503948	0.974688
0.003031	0.268292	133.187922	
0.85919	11.582748	59.503948	0.974688
0.003031	0.210948	132.455582	
1.00000	11.582748	59.503948	0.974688
0.003031	0.814161	137.522545	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-5.200484	-108.930509	-1.441461
-0.003406	-1.601596	-159.338694	
0.57756	-5.200484	-108.930509	-1.441461
-0.003406	-0.999422	-119.018112	
0.71837	-5.200484	-108.930509	-1.441461
-0.003406	-0.403366	-88.839238	
0.85919	-5.200484	-108.930509	-1.441461
-0.003406	-0.144985	-73.068561	
1.00000	-5.200484	-108.930509	-1.441461
-0.003406	-0.550183	-59.988589	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	11.961801	103.579603	0.711082
0.007721	0.790917	196.739033	
0.57756	11.961801	103.579603	0.711082
0.007721	0.492877	164.354206	
0.71837	11.961801	103.579603	0.711082
0.007721	0.195796	140.544564	
0.85919	11.961801	103.579603	0.711082
0.007721	0.154714	128.842650	
1.00000	11.961801	103.579603	0.711082
0.007721	0.550463	137.824466	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-12.057288	-135.070870	-0.946525
-0.006285	-1.037037	-160.076513	
0.57756	-12.057288	-135.070870	-0.946525
-0.006285	-0.640808	-119.991379	
0.71837	-12.057288	-135.070870	-0.946525
-0.006285	-0.256848	-97.647515	
0.85919	-12.057288	-135.070870	-0.946525
-0.006285	-0.110501	-81.089646	
1.00000	-12.057288	-135.070870	-0.946525
-0.006285	-0.401248	-65.247390	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2748

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	11.582748	101.099025	0.989033
0.007600	1.098462	200.461007	
0.57756	11.582748	101.099025	0.989033
0.007600	0.684336	170.973425	
0.71837	11.582748	101.099025	0.989033
0.007600	0.271197	149.411166	
0.85919	11.582748	101.099025	0.989033
0.007600	0.270966	142.876823	
1.00000	11.582748	101.099025	0.989033
0.007600	1.011019	146.811096	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-11.880416	-121.546595	-1.768916
-0.006395	-1.953541	-170.313615	
0.57756	-11.880416	-121.546595	-1.768916
-0.006395	-1.214894	-134.115198	
0.71837	-11.880416	-121.546595	-1.768916
-0.006395	-0.485467	-113.827129	
0.85919	-11.880416	-121.546595	-1.768916
-0.006395	-0.153334	-94.498783	
1.00000	-11.880416	-121.546595	-1.768916
-0.006395	-0.558930	-76.161701	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	11.961801	103.579603	0.989033
0.007721	1.098462	200.461007	
0.57756	11.961801	103.579603	0.989033
0.007721	0.684336	170.973425	
0.71837	11.961801	103.579603	0.989033
0.007721	0.271197	149.411166	
0.85919	11.961801	103.579603	0.989033
0.007721	0.270966	142.876823	
1.00000	11.961801	103.579603	0.989033
0.007721	1.011019	146.811096	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-12.057288	-135.070870	-1.768916
-0.006395	-1.953541	-170.313615	
0.57756	-12.057288	-135.070870	-1.768916
-0.006395	-1.214894	-134.115198	
0.71837	-12.057288	-135.070870	-1.768916
-0.006395	-0.485467	-113.827129	
0.85919	-12.057288	-135.070870	-1.768916
-0.006395	-0.153334	-94.498783	
1.00000	-12.057288	-135.070870	-1.768916
-0.006395	-0.558930	-76.161701	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	11.961801	103.579603	0.989033
0.007721	1.098462	200.461007	
0.57756	11.961801	103.579603	0.989033
0.007721	0.684336	170.973425	
0.71837	11.961801	103.579603	0.989033
0.007721	0.271197	149.411166	
0.85919	11.961801	103.579603	0.989033
0.007721	0.270966	142.876823	
1.00000	11.961801	103.579603	0.989033
0.007721	1.011019	146.811096	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-12.057288	-135.070870	-1.768916
-0.006395	-1.953541	-170.313615	
0.57756	-12.057288	-135.070870	-1.768916
-0.006395	-1.214894	-134.115198	
0.71837	-12.057288	-135.070870	-1.768916
-0.006395	-0.485467	-113.827129	
0.85919	-12.057288	-135.070870	-1.768916
-0.006395	-0.153334	-94.498783	
1.00000	-12.057288	-135.070870	-1.768916
-0.006395	-0.558930	-76.161701	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2749

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 253 ========== LENGTH = 2.977603

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.562982	71.985160	0.414248
0.001196	0.234150	3.010154	
0.14085	0.562982	71.985160	0.414248
0.001196	0.060386	3.475843	
0.28170	0.562982	71.985160	0.414248
0.001196	0.122833	3.978169	
0.42256	0.562982	71.985160	0.414248
0.001196	0.294747	7.080295	
0.56341	0.562982	71.985160	0.414248
0.001196	0.473106	10.446829	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.504734	-8.342917	-0.425274
-7.30E-06	-0.240335	-24.197399	
0.14085	-9.504734	-8.342917	-0.425274
-7.30E-06	-0.061915	-53.973600	
0.28170	-9.504734	-8.342917	-0.425274
-7.30E-06	-0.113481	-84.076297	
0.42256	-9.504734	-8.342917	-0.425274
-7.30E-06	-0.287087	-114.185282	
0.56341	-9.504734	-8.342917	-0.425274
-7.30E-06	-0.460812	-144.324686	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.608806	168.934024	0.592176
0.007812	0.344360	123.479338	
0.14085	2.608806	168.934024	0.592176
0.007812	0.112214	98.352409	
0.28170	2.608806	168.934024	0.592176
0.007812	0.194674	74.205475	
0.42256	2.608806	168.934024	0.592176
0.007812	0.449317	70.206788	
0.56341	2.608806	168.934024	0.592176
0.007812	0.733468	79.996716	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.132426	-30.349002	-0.680344
-0.006135	-0.408556	-12.075667	
0.14085	-16.132426	-30.349002	-0.680344
-0.006135	-0.124517	-49.995618	
0.28170	-16.132426	-30.349002	-0.680344
-0.006135	-0.162337	-88.553800	
0.42256	-16.132426	-30.349002	-0.680344
-0.006135	-0.409564	-129.380567	
0.56341	-16.132426	-30.349002	-0.680344
-0.006135	-0.657912	-191.630918	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.827474	138.015245	0.617597
0.005729	0.354665	122.341711	
0.14085	6.827474	138.015245	0.617597
0.005729	0.104540	128.081489	
0.28170	6.827474	138.015245	0.617597
0.005729	0.238724	134.954945	
0.42256	6.827474	138.015245	0.617597
0.005729	0.568493	155.878291	
0.56341	6.827474	138.015245	0.617597
0.005729	0.919567	186.231050	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.738136	-77.358965	-0.840440
-0.004170	-0.490819	-11.296631	
0.14085	-13.738136	-77.358965	-0.840440
-0.004170	-0.139131	-46.658935	
0.28170	-13.738136	-77.358965	-0.840440
-0.004170	-0.169434	-82.394811	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2750

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42256	-13.738136	-77.358965	-0.840440
-0.004170	-0.428470	-119.604500	
0.56341	-13.738136	-77.358965	-0.840440
-0.004170	-0.687485	-171.364161	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.545228	118.078759	0.713736
0.004807	0.407687	104.462667	
0.14085	8.545228	118.078759	0.713736
0.004807	0.115732	108.179625	
0.28170	8.545228	118.078759	0.713736
0.004807	0.254938	115.391562	
0.42256	8.545228	118.078759	0.713736
0.004807	0.615285	135.506029	
0.56341	8.545228	118.078759	0.713736
0.004807	0.993319	165.520362	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.105574	-81.173543	-0.904193
-0.004015	-0.523941	-33.066228	
0.14085	-12.105574	-81.173543	-0.904193
-0.004015	-0.145351	-56.270470	
0.28170	-12.105574	-81.173543	-0.904193
-0.004015	-0.195984	-80.340581	
0.42256	-12.105574	-81.173543	-0.904193
-0.004015	-0.495346	-106.829535	
0.56341	-12.105574	-81.173543	-0.904193
-0.004015	-0.794687	-146.535503	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.900486	64.974056	0.131557
0.005315	0.092553	132.906305	
0.14085	3.900486	64.974056	0.131557
0.005315	0.038572	124.758463	
0.28170	3.900486	64.974056	0.131557
0.005315	0.077495	116.849121	
0.42256	3.900486	64.974056	0.131557
0.005315	0.179154	124.213547	
0.56341	3.900486	64.974056	0.131557
0.005315	0.298318	142.823824	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.138795	-49.675645	-0.285409
-0.005130	-0.181054	-1.748287	
0.14085	-4.138795	-49.675645	-0.285409
-0.005130	-0.062381	-1.122777	
0.28170	-4.138795	-49.675645	-0.285409
-0.005130	-0.035242	-0.911087	
0.42256	-4.138795	-49.675645	-0.285409
-0.005130	-0.090574	-2.557009	
0.56341	-4.138795	-49.675645	-0.285409
-0.005130	-0.145521	-22.124854	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.431624	61.664307	0.294882
0.005161	0.172802	138.097000	
0.14085	8.431624	61.664307	0.294882
0.005161	0.059374	143.662563	
0.28170	8.431624	61.664307	0.294882
0.005161	0.147882	152.862079	
0.42256	8.431624	61.664307	0.294882
0.005161	0.358029	176.538336	
0.56341	8.431624	61.664307	0.294882
0.005161	0.584485	211.296883	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.476984	-88.138454	-0.541143
-0.005037	-0.323867	-11.730661	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2751

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	-4.476984	-88.138454	-0.541143
-0.005037	-0.097881	-7.940911	
0.28170	-4.476984	-88.138454	-0.541143
-0.005037	-0.081432	-5.276406	
0.42256	-4.476984	-88.138454	-0.541143
-0.005037	-0.205115	-5.931011	
0.56341	-4.476984	-88.138454	-0.541143
-0.005037	-0.328787	-24.677306	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.122393	118.987795	0.540884
0.004661	0.309934	132.347037	
0.14085	8.122393	118.987795	0.540884
0.004661	0.090305	124.508954	
0.28170	8.122393	118.987795	0.540884
0.004661	0.218319	136.543547	
0.42256	8.122393	118.987795	0.540884
0.004661	0.526365	161.512047	
0.56341	8.122393	118.987795	0.540884
0.004661	0.846097	194.823765	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.875480	-84.487421	-0.763313
-0.003618	-0.443235	-14.424345	
0.14085	-10.875480	-84.487421	-0.763313
-0.003618	-0.124428	-16.593193	
0.28170	-10.875480	-84.487421	-0.763313
-0.003618	-0.148592	-45.528933	
0.42256	-10.875480	-84.487421	-0.763313
-0.003618	-0.375477	-77.131264	
0.56341	-10.875480	-84.487421	-0.763313
-0.003618	-0.602321	-121.847063	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.543277	103.409373	0.671613
0.003890	0.382914	114.260769	
0.14085	9.543277	103.409373	0.671613
0.003890	0.107262	106.008568	
0.28170	9.543277	103.409373	0.671613
0.003890	0.242049	114.007182	
0.42256	9.543277	103.409373	0.671613
0.003890	0.590580	133.876108	
0.56341	9.543277	103.409373	0.671613
0.003890	0.948869	162.177259	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.296897	-82.965299	-0.855090
-0.003582	-0.492960	-41.066709	
0.14085	-9.296897	-82.965299	-0.855090
-0.003582	-0.135370	-37.776578	
0.28170	-9.296897	-82.965299	-0.855090
-0.003582	-0.184449	-56.660379	
0.42256	-9.296897	-82.965299	-0.855090
-0.003582	-0.466188	-77.510661	
0.56341	-9.296897	-82.965299	-0.855090
-0.003582	-0.747861	-109.122043	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.406735	7.134616	0.351559
1.57E-05	0.198451	7.428029	
0.14085	4.406735	7.134616	0.351559
1.57E-05	0.050935	4.730248	
0.28170	4.406735	7.134616	0.351559
1.57E-05	0.096105	2.442526	
0.42256	4.406735	7.134616	0.351559
1.57E-05	0.243031	1.396897	
0.56341	4.406735	7.134616	0.351559
1.57E-05	0.389971	2.028112	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2752

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261651	-18.183127	-0.350362
-0.000899	-0.197800	-47.954342	
0.14085	-0.261651	-18.183127	-0.350362
-0.000899	-0.050782	-40.762453	
0.28170	-0.261651	-18.183127	-0.350362
-0.000899	-0.096437	-33.694597	
0.42256	-0.261651	-18.183127	-0.350362
-0.000899	-0.243890	-26.672815	
0.56341	-0.261651	-18.183127	-0.350362
-0.000899	-0.391334	-19.683291	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.091295	12.003939	0.552929
0.000364	0.312025	14.867460	
0.14085	8.091295	12.003939	0.552929
0.000364	0.080440	13.488091	
0.28170	8.091295	12.003939	0.552929
0.000364	0.160265	17.759986	
0.42256	8.091295	12.003939	0.552929
0.000364	0.404443	24.649382	
0.56341	8.091295	12.003939	0.552929
0.000364	0.649326	34.399875	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.402792	-43.996983	-0.583937
-0.001691	-0.330349	-65.277923	
0.14085	-1.402792	-43.996983	-0.583937
-0.001691	-0.085427	-52.544556	
0.28170	-1.402792	-43.996983	-0.583937
-0.001691	-0.152032	-40.800167	
0.42256	-1.402792	-43.996983	-0.583937
-0.001691	-0.383947	-31.153489	
0.56341	-1.402792	-43.996983	-0.583937
-0.001691	-0.615845	-23.966255	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.493614	13.408753	0.562986
0.000515	0.317290	66.168184	
0.14085	11.493614	13.408753	0.562986
0.000515	0.081708	89.562355	
0.28170	11.493614	13.408753	0.562986
0.000515	0.206469	116.334421	
0.42256	11.493614	13.408753	0.562986
0.000515	0.520313	145.766149	
0.56341	11.493614	13.408753	0.562986
0.000515	0.835242	177.898864	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.081976	-95.755135	-0.750983
-0.001460	-0.424646	-58.635703	
0.14085	-1.081976	-95.755135	-0.750983
-0.001460	-0.109577	-47.973928	
0.28170	-1.081976	-95.755135	-0.750983
-0.001460	-0.155389	-37.998127	
0.42256	-1.081976	-95.755135	-0.750983
-0.001460	-0.391500	-29.517083	
0.56341	-1.081976	-95.755135	-0.750983
-0.001460	-0.627618	-23.339794	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.622577	94.173231	0.661347
0.004181	0.377928	128.613996	
0.14085	10.622577	94.173231	0.661347
0.004181	0.107619	116.704158	
0.28170	10.622577	94.173231	0.661347
0.004181	0.237735	119.776199	
0.42256	10.622577	94.173231	0.661347
0.004181	0.582746	135.750928	
0.56341	10.622577	94.173231	0.661347
0.004181	0.939224	162.154776	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2753

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.444179	-84.327371	-0.850962
-0.004366	-0.489662	-51.185860	
0.14085	-7.444179	-84.327371	-0.850962
-0.004366	-0.136093	-41.041581	
0.28170	-7.444179	-84.327371	-0.850962
-0.004366	-0.181642	-47.203553	
0.42256	-7.444179	-84.327371	-0.850962
-0.004366	-0.459037	-60.030062	
0.56341	-7.444179	-84.327371	-0.850962
-0.004366	-0.736413	-85.513897	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.670117	71.434916	0.539114
0.001151	0.304332	3.905793	
0.14085	0.670117	71.434916	0.539114
0.001151	0.078332	4.191187	
0.28170	0.670117	71.434916	0.539114
0.001151	0.284060	4.760971	
0.42256	0.670117	71.434916	0.539114
0.001151	0.699809	8.083434	
0.56341	0.670117	71.434916	0.539114
0.001151	1.117765	12.025727	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.680707	-10.057167	-0.996547
-4.31E-06	-0.553901	-34.472504	
0.14085	-9.680707	-10.057167	-0.996547
-4.31E-06	-0.136008	-61.442215	
0.28170	-9.680707	-10.057167	-0.996547
-4.31E-06	-0.146833	-88.587326	
0.42256	-9.680707	-10.057167	-0.996547
-4.31E-06	-0.373027	-117.604412	
0.56341	-9.680707	-10.057167	-0.996547
-4.31E-06	-0.599260	-147.195978	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.882339	163.842047	0.846377
0.007792	0.497492	134.330629	
0.14085	2.882339	163.842047	0.846377
0.007792	0.151523	108.117344	
0.28170	2.882339	163.842047	0.846377
0.007792	0.379281	83.161410	
0.42256	2.882339	163.842047	0.846377
0.007792	0.922412	77.903956	
0.56341	2.882339	163.842047	0.846377
0.007792	1.484774	86.780346	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.736928	-30.757207	-1.351536
-0.006178	-0.782803	-23.649837	
0.14085	-15.736928	-30.757207	-1.351536
-0.006178	-0.217765	-56.281981	
0.28170	-15.736928	-30.757207	-1.351536
-0.006178	-0.234120	-89.953811	
0.42256	-15.736928	-30.757207	-1.351536
-0.006178	-0.586014	-128.173269	
0.56341	-15.736928	-30.757207	-1.351536
-0.006178	-0.940056	-193.155847	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.536976	135.424909	0.866568
0.005898	0.503008	141.050766	
0.14085	6.536976	135.424909	0.866568
0.005898	0.145559	142.288792	
0.28170	6.536976	135.424909	0.866568
0.005898	0.435998	144.788253	
0.42256	6.536976	135.424909	0.866568
0.005898	1.060224	161.738228	
0.56341	6.536976	135.424909	0.866568
0.005898	1.716308	188.877086	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2754

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.636603	-72.025353	-1.552092
-0.004521	-0.886725	-21.726618	
0.14085	-13.636603	-72.025353	-1.552092
-0.004521	-0.638199	-52.116504	
0.28170	-13.636603	-72.025353	-1.552092
-0.004521	-0.238956	-83.269662	
0.42256	-13.636603	-72.025353	-1.552092
-0.004521	-0.600424	-117.992111	
0.56341	-13.636603	-72.025353	-1.552092
-0.004521	-0.963409	-171.855618	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.066205	116.531856	0.986589
0.004940	0.568323	120.594675	
0.14085	8.066205	116.531856	0.986589
0.004940	0.159446	120.423552	
0.28170	8.066205	116.531856	0.986589
0.004940	0.484434	123.520580	
0.42256	8.066205	116.531856	0.986589
0.004940	1.196440	140.353657	
0.56341	8.066205	116.531856	0.986589
0.004940	1.920178	167.896611	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.025387	-79.120557	-1.732849
-0.004237	-0.969868	-43.716161	
0.14085	-12.025387	-79.120557	-1.732849
-0.004237	-0.261107	-61.931334	
0.28170	-12.025387	-79.120557	-1.732849
-0.004237	-0.271656	-81.957051	
0.42256	-12.025387	-79.120557	-1.732849
-0.004237	-0.683882	-106.076925	
0.56341	-12.025387	-79.120557	-1.732849
-0.004237	-1.097319	-148.410503	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.048995	54.457721	0.257139
0.004526	0.157342	136.602165	
0.14085	4.048995	54.457721	0.257139
0.004526	0.056439	131.676869	
0.28170	4.048995	54.457721	0.257139
0.004526	0.088751	127.153326	
0.42256	4.048995	54.457721	0.257139
0.004526	0.213765	134.577338	
0.56341	4.048995	54.457721	0.257139
0.004526	0.350353	151.485720	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.489553	-47.086561	-0.332614
-0.004329	-0.208424	-2.066659	
0.14085	-3.489553	-47.086561	-0.332614
-0.004329	-0.069711	-1.229257	
0.28170	-3.489553	-47.086561	-0.332614
-0.004329	-0.074520	-0.927318	
0.42256	-3.489553	-47.086561	-0.332614
-0.004329	-0.179981	-2.436675	
0.56341	-3.489553	-47.086561	-0.332614
-0.004329	-0.286975	-22.349153	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.784982	53.244233	0.434355
0.004521	0.257571	146.807572	
0.14085	7.784982	53.244233	0.434355
0.004521	0.081287	153.342426	
0.28170	7.784982	53.244233	0.434355
0.004521	0.222434	163.443465	
0.42256	7.784982	53.244233	0.434355
0.004521	0.547778	185.805623	
0.56341	7.784982	53.244233	0.434355
0.004521	0.884745	217.485589	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2755

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.021008	-82.263830	-0.810480
-0.004359	-0.474163	-11.378099	
0.14085	-4.021008	-82.263830	-0.810480
-0.004359	-0.136490	-7.441134	
0.28170	-4.021008	-82.263830	-0.810480
-0.004359	-0.122015	-5.590265	
0.42256	-4.021008	-82.263830	-0.810480
-0.004359	-0.302499	-6.166475	
0.56341	-4.021008	-82.263830	-0.810480
-0.004359	-0.483735	-25.161355	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.743254	108.310500	0.771087
0.003914	0.443462	143.282564	
0.14085	7.743254	108.310500	0.771087
0.003914	0.123686	132.962358	
0.28170	7.743254	108.310500	0.771087
0.003914	0.374115	145.378264	
0.42256	7.743254	108.310500	0.771087
0.003914	0.923433	169.684035	
0.56341	7.743254	108.310500	0.771087
0.003914	1.480285	200.852138	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.949605	-80.387465	-1.332921
-0.002984	0.757077	-15.333578	
0.14085	-9.949605	-80.387465	-1.332921
-0.002984	-0.200890	-15.315710	
0.28170	-9.949605	-80.387465	-1.332921
-0.002984	-0.212544	-40.690313	
0.42256	-9.949605	-80.387465	-1.332921
-0.002984	-0.535102	-70.482935	
0.56341	-9.949605	-80.387465	-1.332921
-0.002984	-0.858075	-113.016788	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.257180	95.549263	0.953002
0.003269	0.544617	124.697088	
0.14085	9.257180	95.549263	0.953002
0.003269	0.148148	113.902286	
0.28170	9.257180	95.549263	0.953002
0.003269	0.430642	121.554871	
0.42256	9.257180	95.549263	0.953002
0.003269	1.071402	140.541014	
0.56341	9.257180	95.549263	0.953002
0.003269	1.718563	166.723589	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.602740	-83.243341	-1.546953
-0.003018	-0.877380	-47.092983	
0.14085	-8.602740	-83.243341	-1.546953
-0.003018	-0.230591	-40.498003	
0.28170	-8.602740	-83.243341	-1.546953
-0.003018	-0.261962	-54.710207	
0.42256	-8.602740	-83.243341	-1.546953
-0.003018	-0.661106	-73.615406	
0.56341	-8.602740	-83.243341	-1.546953
-0.003018	-1.060388	-103.936765	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.651782	8.932553	0.514173
1.15E-05	0.290760	9.459394	
0.14085	4.651782	8.932553	0.514173
1.15E-05	0.074988	6.060252	
0.28170	4.651782	8.932553	0.514173
1.15E-05	0.175888	2.916584	
0.42256	4.651782	8.932553	0.514173
1.15E-05	0.449062	1.629542	
0.56341	4.651782	8.932553	0.514173
1.15E-05	0.722014	2.333692	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2756

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.341304	-23.202461	-0.650607
-0.000867	-0.368822	-58.131213	
0.14085	-0.341304	-23.202461	-0.650607
-0.000867	-0.095915	-48.808950	
0.28170	-0.341304	-23.202461	-0.650607
-0.000867	-0.140243	-39.609657	
0.42256	-0.341304	-23.202461	-0.650607
-0.000867	-0.356154	-31.316137	
0.56341	-0.341304	-23.202461	-0.650607
-0.000867	-0.571737	-25.581103	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.901042	13.514760	0.778604
0.000282	0.440016	16.611895	
0.14085	7.901042	13.514760	0.778604
0.000282	0.113732	15.309813	
0.28170	7.901042	13.514760	0.778604
0.000282	0.319047	19.191845	
0.42256	7.901042	13.514760	0.778604
0.000282	0.808002	26.879230	
0.56341	7.901042	13.514760	0.778604
0.000282	1.297293	37.357089	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.491611	-50.911410	-1.166336
-0.001522	-0.658430	-76.206640	
0.14085	-1.491611	-50.911410	-1.166336
-0.001522	-0.169368	-60.269537	
0.28170	-1.491611	-50.911410	-1.166336
-0.001522	-0.213589	-47.172162	
0.42256	-1.491611	-50.911410	-1.166336
-0.001522	-0.539969	-36.984806	
0.56341	-1.491611	-50.911410	-1.166336
-0.001522	-0.866448	-30.011538	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.086063	11.704039	0.793855
7.31E-05	0.448089	77.192691	
0.14085	11.086063	11.704039	0.793855
7.31E-05	0.114929	98.703867	
0.28170	11.086063	11.704039	0.793855
7.31E-05	0.349955	123.763053	
0.42256	11.086063	11.704039	0.793855
7.31E-05	0.884278	151.764064	
0.56341	11.086063	11.704039	0.793855
7.31E-05	1.419062	181.920921	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.137077	-95.993047	-1.274999
-0.001110	-0.718699	-68.318548	
0.14085	-1.137077	-95.993047	-1.274999
-0.001110	-0.184760	-54.946840	
0.28170	-1.137077	-95.993047	-1.274999
-0.001110	-0.218619	-43.455906	
0.42256	-1.137077	-95.993047	-1.274999
-0.001110	-0.551661	-34.371776	
0.56341	-1.137077	-95.993047	-1.274999
-0.001110	-0.884420	-27.503219	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.436109	84.139275	0.971850
0.003158	0.556803	137.500740	
0.14085	10.436109	84.139275	0.971850
0.003158	0.152164	126.343780	
0.28170	10.436109	84.139275	0.971850
0.003158	0.404821	129.181694	
0.42256	10.436109	84.139275	0.971850
0.003158	1.011732	145.877118	
0.56341	10.436109	84.139275	0.971850
0.003158	1.625458	170.827494	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2757

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.685541	-85.991142	-1.467335
-0.003440	-0.835408	-60.003058	
0.14085	-6.685541	-85.991142	-1.467335
-0.003440	-0.222503	-47.331819	
0.28170	-6.685541	-85.991142	-1.467335
-0.003440	-0.267839	-49.113263	
0.42256	-6.685541	-85.991142	-1.467335
-0.003440	-0.674422	-59.612606	
0.56341	-6.685541	-85.991142	-1.467335
-0.003440	-1.081414	-83.043384	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.493614	168.934024	0.713736
0.007812	0.407687	138.097000	
0.14085	11.493614	168.934024	0.713736
0.007812	0.115732	143.662563	
0.28170	11.493614	168.934024	0.713736
0.007812	0.254938	152.862079	
0.42256	11.493614	168.934024	0.713736
0.007812	0.612185	176.538326	
0.56341	11.493614	168.934024	0.713736
0.007812	0.993319	211.296883	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.132426	-95.755135	-0.904193
-0.006135	-0.523941	-65.277923	
0.14085	-16.132426	-95.755135	-0.904193
-0.006135	-0.145351	-56.270470	
0.28170	-16.132426	-95.755135	-0.904193
-0.006135	-0.195984	-68.553800	
0.42256	-16.132426	-95.755135	-0.904193
-0.006135	-0.495346	-129.380567	
0.56341	-16.132426	-95.755135	-0.904193
-0.006135	-0.794687	-191.630918	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.086063	163.842047	0.986589
0.007792	0.568323	146.807572	
0.14085	11.086063	163.842047	0.986589
0.007792	0.159446	153.342426	
0.28170	11.086063	163.842047	0.986589
0.007792	0.484434	163.443465	
0.42256	11.086063	163.842047	0.986589
0.007792	1.196440	185.805623	
0.56341	11.086063	163.842047	0.986589
0.007792	1.920178	217.485589	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.736928	-95.993047	-1.732849
-0.006178	-0.985868	-76.206640	
0.14085	-15.736928	-95.993047	-1.732849
-0.006178	-0.261107	-61.931334	
0.28170	-15.736928	-95.993047	-1.732849
-0.006178	-0.271656	-89.953811	
0.42256	-15.736928	-95.993047	-1.732849
-0.006178	-0.683882	-128.173269	
0.56341	-15.736928	-95.993047	-1.732849
-0.006178	-1.097319	-193.155847	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.493614	168.934024	0.986589
0.007812	0.568323	146.807572	
0.14085	11.493614	168.934024	0.986589
0.007812	0.159446	153.342426	
0.28170	11.493614	168.934024	0.986589
0.007812	0.484434	163.443465	
0.42256	11.493614	168.934024	0.986589
0.007812	1.196440	185.805623	
0.56341	11.493614	168.934024	0.986589
0.007812	1.920178	217.485589	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2758

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.132426	-95.993047	-1.732849
-0.006178	-0.985868	-76.206640	
0.14085	-16.132426	-95.993047	-1.732849
-0.006178	-0.261107	-61.931334	
0.28170	-16.132426	-95.993047	-1.732849
-0.006178	-0.271656	-89.953811	
0.42256	-16.132426	-95.993047	-1.732849
-0.006178	-0.683882	-129.380567	
0.56341	-16.132426	-95.993047	-1.732849
-0.006178	-1.097319	-193.155847	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.493614	168.934024	0.986589
0.007812	0.568323	146.807572	
0.14085	11.493614	168.934024	0.986589
0.007812	0.159446	153.342426	
0.28170	11.493614	168.934024	0.986589
0.007812	0.484434	163.443465	
0.42256	11.493614	168.934024	0.986589
0.007812	1.196440	185.805623	
0.56341	11.493614	168.934024	0.986589
0.007812	1.920178	217.485589	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.132426	-95.993047	-1.732849
-0.006178	-0.985868	-76.206640	
0.14085	-16.132426	-95.993047	-1.732849
-0.006178	-0.261107	-61.931334	
0.28170	-16.132426	-95.993047	-1.732849
-0.006178	-0.271656	-89.953811	
0.42256	-16.132426	-95.993047	-1.732849
-0.006178	-0.683882	-129.380567	
0.56341	-16.132426	-95.993047	-1.732849
-0.006178	-1.097319	-193.155847	

ELEM 254 ========== LENGTH = 2.977998

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43653	0.361134	77.842488	0.409390
0.000906	0.458516	108.570878	
0.57740	0.361134	77.842488	0.409390
0.000906	0.286677	75.970867	
0.71827	0.361134	77.842488	0.409390
0.000906	0.115027	43.452978	
0.85913	0.361134	77.842488	0.409390
0.000906	0.068133	11.220930	
1.00000	0.361134	77.842488	0.409390
0.000906	0.228621	2.918313	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43653	-10.155844	-5.135792	-0.410233
-0.000471	-0.459752	-10.929655	
0.57740	-10.155844	-5.135792	-0.410233
-0.000471	-0.287661	-8.971235	
0.71827	-10.155844	-5.135792	-0.410233
-0.000471	-0.115595	-7.357144	
0.85913	-10.155844	-5.135792	-0.410233
-0.000471	-0.056690	-5.888114	
1.00000	-10.155844	-5.135792	-0.410233
-0.000471	-0.228439	-23.244768	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43653	4.805249	110.167338	0.639455
0.007346	0.704802	207.432227	
0.57740	4.805249	110.167338	0.639455
0.007346	0.436554	165.208097	
0.71827	4.805249	110.167338	0.639455
0.007346	0.168294	135.625854	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2759

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85913	4.805249	110.167338	0.639455
0.007346	0.118059	124.084483	
1.00000	4.805249	110.167338	0.639455
0.007346	0.347063	125.954502	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43653	-12.863329	-86.888663	-0.574569
-0.006779	-0.619729	-36.000798	
0.57740	-12.863329	-86.888663	-0.574569
-0.006779	-0.380126	-14.662595	
0.71827	-12.863329	-86.888663	-0.574569
-0.006779	-0.160213	-10.764967	
0.85913	-12.863329	-86.888663	-0.574569
-0.006779	-0.110074	-8.410388	
1.00000	-12.863329	-86.888663	-0.574569
-0.006779	-0.368198	-10.214570	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43653	8.060722	99.138153	0.633463
0.005505	0.702883	196.429809	
0.57740	8.060722	99.138153	0.633463
0.005505	0.437142	159.013409	
0.71827	8.060722	99.138153	0.633463
0.005505	0.171415	131.000045	
0.85913	8.060722	99.138153	0.633463
0.005505	0.114545	117.579294	
1.00000	8.060722	99.138153	0.633463
0.005505	0.359836	127.037102	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43653	-11.711407	-115.018846	-0.609669
-0.005099	-0.665045	-77.903916	
0.57740	-11.711407	-115.018846	-0.609669
-0.005099	-0.410247	-38.955325	
0.71827	-11.711407	-115.018846	-0.609669
-0.005099	-0.171537	-11.791723	
0.85913	-11.711407	-115.018846	-0.609669
-0.005099	-0.101187	-8.577227	
1.00000	-11.711407	-115.018846	-0.609669
-0.005099	-0.360110	-8.934520	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43653	9.716000	84.379716	0.719336
0.004607	0.799772	168.596795	
0.57740	9.716000	84.379716	0.719336
0.004607	0.498009	136.673743	
0.71827	9.716000	84.379716	0.719336
0.004607	0.196254	112.560802	
0.85913	9.716000	84.379716	0.719336
0.004607	0.126014	100.585442	
1.00000	9.716000	84.379716	0.719336
0.004607	0.413171	107.644398	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43653	-10.382980	-114.452333	-0.705219
-0.004479	-0.771711	-118.502482	
0.57740	-10.382980	-114.452333	-0.705219
-0.004479	-0.476692	-78.503788	
0.71827	-10.382980	-114.452333	-0.705219
-0.004479	-0.195248	-48.894366	
0.85913	-10.382980	-114.452333	-0.705219
-0.004479	-0.111220	-39.129378	
1.00000	-10.382980	-114.452333	-0.705219
-0.004479	-0.407285	-32.132141	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43653	5.811063	9.874406	0.193129
0.005531	0.202582	55.655164	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57740		5.811063	9.874406	0.193129
0.005531		0.121566	55.951863	
0.71827		5.811063	9.874406	0.193129
0.005531		0.042464	67.286391	
0.85913		5.811063	9.874406	0.193129
0.005531		0.039965	96.454272	
1.00000		5.811063	9.874406	0.193129
0.005531		0.090829	136.890056	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-0.759208	-99.644362	-0.127088
-0.005488		-0.124652	-39.123144	
0.57740		-0.759208	-99.644362	-0.127088
-0.005488		-0.072524	-9.794414	
0.71827		-0.759208	-99.644362	-0.127088
-0.005488		-0.036866	-2.597444	
0.85913		-0.759208	-99.644362	-0.127088
-0.005488		-0.048973	-1.987976	
1.00000		-0.759208	-99.644362	-0.127088
-0.005488		-0.121504	-1.405258	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		10.172939	9.427398	0.318715
0.005344		0.348696	57.870569	
0.57740		10.172939	9.427398	0.318715
0.005344		0.214993	58.637157	
0.71827		10.172939	9.427398	0.318715
0.005344		0.081320	70.126948	
0.85913		10.172939	9.427398	0.318715
0.005344		0.068471	98.221237	
1.00000		10.172939	9.427398	0.318715
0.005344		0.194061	143.348261	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-1.306071	-135.745190	-0.299309
-0.005479		-0.310284	-98.329256	
0.57740		-1.306071	-135.745190	-0.299309
-0.005479		-0.185655	-52.243715	
0.71827		-1.306071	-135.745190	-0.299309
-0.005479		-0.080121	-20.469490	
0.85913		-1.306071	-135.745190	-0.299309
-0.005479		-0.060319	-15.024183	
1.00000		-1.306071	-135.745190	-0.299309
-0.005479		-0.186113	-10.648165	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		9.326515	86.328016	0.552383
0.004428		0.612979	203.854252	
0.57740		9.326515	86.328016	0.552383
0.004428		0.381252	171.400642	
0.71827		9.326515	86.328016	0.552383
0.004428		0.149546	146.834414	
0.85913		9.326515	86.328016	0.552383
0.004428		0.089501	134.895083	
1.00000		9.326515	86.328016	0.552383
0.004428		0.321940	138.937014	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-9.185773	-115.903297	-0.541376
-0.004164		-0.587952	-93.968464	
0.57740		-9.185773	-115.903297	-0.541376
-0.004164		-0.361654	-53.092956	
0.71827		-9.185773	-115.903297	-0.541376
-0.004164		-0.149439	-23.307196	
0.85913		-9.185773	-115.903297	-0.541376
-0.004164		-0.087669	-17.480572	
1.00000		-9.185773	-115.903297	-0.541376
-0.004164		-0.313892	-12.465741	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		10.763874	74.248428	0.671985
0.003700		0.747567	176.497530	
0.57740		10.763874	74.248428	0.671985
0.003700		0.465669	148.496154	
0.71827		10.763874	74.248428	0.671985
0.003700		0.183756	127.088695	
0.85913		10.763874	74.248428	0.671985
0.003700		0.110816	116.224297	
1.00000		10.763874	74.248428	0.671985
0.003700		0.381714	118.677969	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-7.820534	-111.929204	-0.654842
-0.003702		-0.718351	-135.354474	
0.57740		-7.820534	-111.929204	-0.654842
-0.003702		-0.444319	-94.947861	
0.71827		-7.820534	-111.929204	-0.654842
-0.003702		-0.181916	-63.524035	
0.85913		-7.820534	-111.929204	-0.654842
-0.003702		-0.102682	-48.284586	
1.00000		-7.820534	-111.929204	-0.654842
-0.003702		-0.380015	-41.874378	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		4.772403	4.090663	0.336330
1.15E-05		0.376317	11.876271	
0.57740		4.772403	4.090663	0.336330
1.15E-05		0.235227	10.166175	
0.71827		4.772403	4.090663	0.336330
1.15E-05		0.094123	8.477510	
0.85913		4.772403	4.090663	0.336330
1.15E-05		0.046153	6.844234	
1.00000		4.772403	4.090663	0.336330
1.15E-05		0.184059	5.267327	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-0.152939	-22.525108	-0.328560
-0.000320		-0.367267	-89.948218	
0.57740		-0.152939	-22.525108	-0.328560
-0.000320		-0.229438	-80.590962	
0.71827		-0.152939	-22.525108	-0.328560
-0.000320		-0.091625	-71.275164	
0.85913		-0.152939	-22.525108	-0.328560
-0.000320		-0.046901	-61.967661	
1.00000		-0.152939	-22.525108	-0.328560
-0.000320		-0.188043	-52.685808	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		8.620697	5.650737	0.532477
0.000304		0.595071	16.643213	
0.57740		8.620697	5.650737	0.532477
0.000304		0.371699	14.672975	
0.71827		8.620697	5.650737	0.532477
0.000304		0.148302	13.202288	
0.85913		8.620697	5.650737	0.532477
0.000304		0.085500	12.419986	
1.00000		8.620697	5.650737	0.532477
0.000304		0.316525	12.397978	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-1.094817	-51.792742	-0.550513
-0.000828		-0.607320	-148.206461	
0.57740		-1.094817	-51.792742	-0.550513
-0.000828		-0.376431	-127.452419	
0.71827		-1.094817	-51.792742	-0.550513
-0.000828		-0.146337	-107.730903	
0.85913		-1.094817	-51.792742	-0.550513
-0.000828		-0.075247	-88.275400	
1.00000		-1.094817	-51.792742	-0.550513
-0.000828		-0.298406	-69.954670	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		11.756682	6.089289	0.545827
0.000732		0.609159	38.743393	
0.57740		11.756682	6.089289	0.545827
0.000732		0.380183	38.232175	
0.71827		11.756682	6.089289	0.545827
0.000732		0.151219	39.635131	
0.85913		11.756682	6.089289	0.545827
0.000732		0.081457	45.680857	
1.00000		11.756682	6.089289	0.545827
0.000732		0.308786	67.753589	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-0.745548	-103.486142	-0.541609
-0.001227		-0.600180	-170.194931	
0.57740		-0.745548	-103.486142	-0.541609
-0.001227		-0.373078	-127.743388	
0.71827		-0.745548	-103.486142	-0.541609
-0.001227		-0.150379	-89.534866	
0.85913		-0.745548	-103.486142	-0.541609
-0.001227		-0.078196	-75.639814	
1.00000		-0.745548	-103.486142	-0.541609
-0.001227		-0.306726	-62.446769	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		12.116634	57.435314	0.662738
0.004005		0.736361	155.215859	
0.57740		12.116634	57.435314	0.662738
0.004005		0.458343	134.544168	
0.71827		12.116634	57.435314	0.662738
0.004005		0.180330	121.462846	
0.85913		12.116634	57.435314	0.662738
0.004005		0.102157	120.394942	
1.00000		12.116634	57.435314	0.662738
0.004005		0.376528	132.233624	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-5.432002	-120.090508	-0.640526
-0.004147		-0.699740	-153.229316	
0.57740		-5.432002	-120.090508	-0.640526
-0.004147		-0.431836	-110.529088	
0.71827		-5.432002	-120.090508	-0.640526
-0.004147		-0.177228	-78.054794	
0.85913		-5.432002	-120.090508	-0.640526
-0.004147		-0.103116	-65.510928	
1.00000		-5.432002	-120.090508	-0.640526
-0.004147		-0.375705	-53.764953	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		0.462169	78.999494	0.539719
0.000774		0.604992	108.049751	
0.57740		0.462169	78.999494	0.539719
0.000774		0.378499	75.137488	
0.71827		0.462169	78.999494	0.539719
0.000774		0.151846	42.549883	
0.85913		0.462169	78.999494	0.539719
0.000774		0.144523	11.444355	
1.00000		0.462169	78.999494	0.539719
0.000774		0.534613	3.748482	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-10.476084	-5.908883	-0.940636
-0.000382		-1.043776	-14.472000	
0.57740		-10.476084	-5.908883	-0.940636
-0.000382		-0.649152	-12.949596	
0.71827		-10.476084	-5.908883	-0.940636
-0.000382		-0.254387	-10.422375	
0.85913		-10.476084	-5.908883	-0.940636
-0.000382		-0.073626	-9.931780	
1.00000		-10.476084	-5.908883	-0.940636
-0.000382		-0.299925	-31.917198	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		5.684972	110.089238	0.912795
0.007184		1.010995	215.610115	
0.57740		5.684972	110.089238	0.912795
0.007184		0.627943	175.231052	
0.71827		5.684972	110.089238	0.912795
0.007184		0.249163	147.531594	
0.85913		5.684972	110.089238	0.912795
0.007184		0.209122	135.575694	
1.00000		5.684972	110.089238	0.912795
0.007184		0.704243	138.369284	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-12.852728	-84.103822	-1.193659
-0.006689		-1.299909	-43.418328	
0.57740		-12.852728	-84.103822	-1.193659
-0.006689		-0.799189	-18.586197	
0.71827		-12.852728	-84.103822	-1.193659
-0.006689		-0.323399	-14.055218	
0.85913		-12.852728	-84.103822	-1.193659
-0.006689		-0.151711	-11.314758	
1.00000		-12.852728	-84.103822	-1.193659
-0.006689		-0.519647	-19.716828	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		8.268960	98.571057	0.901698
0.005492		1.003577	200.417332	
0.57740		8.268960	98.571057	0.901698
0.005492		0.625213	165.465464	
0.71827		8.268960	98.571057	0.901698
0.005492		0.250051	141.563655	
0.85913		8.268960	98.571057	0.901698
0.005492		0.205213	136.278731	
1.00000		8.268960	98.571057	0.901698
0.005492		0.721746	147.779268	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-11.871721	-109.483203	-1.245685
-0.005124		-1.368288	-75.419218	
0.57740		-11.871721	-109.483203	-1.245685
-0.005124		-0.845960	-38.746540	
0.71827		-11.871721	-109.483203	-1.245685
-0.005124		-0.342019	-17.284927	
0.85913		-11.871721	-109.483203	-1.245685
-0.005124		-0.142202	-11.492202	
1.00000		-11.871721	-109.483203	-1.245685
-0.005124		-0.509317	-17.574388	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		9.675700	84.229957	0.991592
0.004586		1.104748	172.917430	
0.57740		9.675700	84.229957	0.991592
0.004586		0.688699	142.907044	
0.71827		9.675700	84.229957	0.991592
0.004586		0.275454	122.118233	
0.85913		9.675700	84.229957	0.991592
0.004586		0.219546	116.738523	
1.00000		9.675700	84.229957	0.991592
0.004586		0.793313	125.304016	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-10.614720	-113.108100	-1.379850
-0.004452		-1.521465	-125.002019	
0.57740		-10.614720	-113.108100	-1.379850
-0.004452		-0.942890	-85.456637	
0.71827		-10.614720	-113.108100	-1.379850
-0.004452		-0.379658	-58.674354	
0.85913		-10.614720	-113.108100	-1.379850
-0.004452		-0.152335	-45.309607	
1.00000		-10.614720	-113.108100	-1.379850
-0.004452		-0.559033	-41.661848	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		6.034892	10.686221	0.325264
0.004634		0.353144	66.273674	
0.57740		6.034892	10.686221	0.325264
0.004634		0.216632	68.431194	
0.71827		6.034892	10.686221	0.325264
0.004634		0.083366	82.154389	
0.85913		6.034892	10.686221	0.325264
0.004634		0.044218	109.534764	
1.00000		6.034892	10.686221	0.325264
0.004634		0.119443	142.627215	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-0.870926	-86.916555	-0.182419
-0.004593		-0.187584	-38.522498	
0.57740		-0.870926	-86.916555	-0.182419
-0.004593		-0.111019	-11.512959	
0.71827		-0.870926	-86.916555	-0.182419
-0.004593		-0.051941	-3.144062	
0.85913		-0.870926	-86.916555	-0.182419
-0.004593		-0.066340	-2.399369	
1.00000		-0.870926	-86.916555	-0.182419
-0.004593		-0.192185	-1.644842	

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		9.615209	10.370045	0.456626
0.004587		0.504046	65.533605	
0.57740		9.615209	10.370045	0.456626
0.004587		0.312552	67.955129	
0.71827		9.615209	10.370045	0.456626
0.004587		0.124248	81.651694	
0.85913		9.615209	10.370045	0.456626
0.004587		0.091162	114.315925	
1.00000		9.615209	10.370045	0.456626
0.004587		0.302115	154.318879	

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-1.664115	-122.377005	-0.507371
-0.004683		-0.548722	-91.399478	
0.57740		-1.664115	-122.377005	-0.507371
-0.004683		-0.349192	-49.498594	
0.71827		-1.664115	-122.377005	-0.507371
-0.004683		-0.141318	-22.830755	
0.85913		-1.664115	-122.377005	-0.507371
-0.004683		-0.081571	-15.334445	
1.00000		-1.664115	-122.377005	-0.507371
-0.004683		-0.262948	-10.310193	

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		8.832198	85.985982	0.794233
0.003547		0.886286	183.637756	
0.57740		8.832198	85.985982	0.794233
0.003547		0.553003	183.039837	
0.71827		8.832198	85.985982	0.794233
0.003547		0.221971	160.705842	
0.85913		8.832198	85.985982	0.794233
0.003547		0.158133	153.161510	
1.00000		8.832198	85.985982	0.794233
0.003547		0.576649	152.411690	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-9.097026	-103.654603	-1.006626
-0.003323		-1.111834	-89.044873	
0.57740		-9.097026	-103.654603	-1.006626
-0.003323		-0.689547	-52.579858	
0.71827		-9.097026	-103.654603	-1.006626
-0.003323		-0.279219	-26.904251	
0.85913		-9.097026	-103.654603	-1.006626
-0.003323		-0.120870	-19.012345	
1.00000		-9.097026	-103.654603	-1.006626
-0.003323		-0.446526	-13.142002	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		10.442877	74.558171	0.946963
0.002967		1.057048	186.458759	
0.57740		10.442877	74.558171	0.946963
0.002967		0.659706	159.717528	
0.71827		10.442877	74.558171	0.946963
0.002967		0.264202	139.920423	
0.85913		10.442877	74.558171	0.946963
0.002967		0.174229	132.570158	
1.00000		10.442877	74.558171	0.946963
0.002967		0.656729	130.904087	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-7.829848	-106.524964	-1.157509
-0.002968		-1.284714	-144.807624	
0.57740		-7.829848	-106.524964	-1.157509
-0.002968		-0.799239	-106.130186	
0.71827		-7.829848	-106.524964	-1.157509
-0.002968		-0.323507	-76.454485	
0.85913		-7.829848	-106.524964	-1.157509
-0.002968		-0.140821	-61.524633	
1.00000		-7.829848	-106.524964	-1.157509
-0.002968		-0.532052	-48.534839	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		5.236395	5.109727	0.479397
8.59E-06		0.534950	14.972572	
0.57740		5.236395	5.109727	0.479397
8.59E-06		0.333841	12.844536	
0.71827		5.236395	5.109727	0.479397
8.59E-06		0.132775	10.739032	
0.85913		5.236395	5.109727	0.479397
8.59E-06		0.063451	8.656381	
1.00000		5.236395	5.109727	0.479397
8.59E-06		0.260315	6.668498	

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-0.228389	-29.364088	-0.471190
-0.000269		-0.529893	-113.005002	
0.57740		-0.228389	-29.364088	-0.471190
-0.000269		-0.332190	-100.768090	
0.71827		-0.228389	-29.364088	-0.471190
-0.000269		-0.134376	-88.561046	
0.85913		-0.228389	-29.364088	-0.471190
-0.000269		-0.068975	-76.393041	
1.00000		-0.228389	-29.364088	-0.471190
-0.000269		-0.269580	-64.315858	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		8.618320	6.883943	0.723240
0.000230		0.807540	20.577526	
0.57740		8.618320	6.883943	0.723240
0.000230		0.504227	17.944242	
0.71827		8.618320	6.883943	0.723240
0.000230		0.201027	15.648950	
0.85913		8.618320	6.883943	0.723240
0.000230		0.126344	14.016236	
1.00000		8.618320	6.883943	0.723240
0.000230		0.497526	13.646375	

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-1.403416	-60.699801	-0.887516
-0.000658		-0.993649	-176.291754	
0.57740		-1.403416	-60.699801	-0.887516
-0.000658		-0.618199	-151.412482	
0.71827		-1.403416	-60.699801	-0.887516
-0.000658		-0.246302	-127.253927	
0.85913		-1.403416	-60.699801	-0.887516
-0.000658		-0.103770	-104.140117	
1.00000		-1.403416	-60.699801	-0.887516
-0.000658		-0.406303	-82.200390	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		11.360872	6.932440	0.744037
0.000354		0.831401	42.816746	
0.57740		11.360872	6.932440	0.744037
0.000354		0.519580	43.476910	
0.71827		11.360872	6.932440	0.744037
0.000354		0.207479	47.593324	
0.85913		11.360872	6.932440	0.744037
0.000354		0.115892	60.075264	
1.00000		11.360872	6.932440	0.744037
0.000354		0.470617	79.566983	

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-1.123349	-102.947948	-0.848302
-0.000750		-0.951691	-186.043225	
0.57740		-1.123349	-102.947948	-0.848302
-0.000750		-0.589590	-145.327498	
0.71827		-1.123349	-102.947948	-0.848302
-0.000750		-0.241395	-109.078243	
0.85913		-1.123349	-102.947948	-0.848302
-0.000750		-0.106576	-90.744085	
1.00000		-1.123349	-102.947948	-0.848302
-0.000750		-0.418013	-73.564501	

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		11.903880	58.572876	0.963496
0.002988		1.073665	168.650309	
0.57740		11.903880	58.572876	0.963496
0.002988		0.669624	148.876109	
0.71827		11.903880	58.572876	0.963496
0.002988		0.267085	136.499322	
0.85913		11.903880	58.572876	0.963496
0.002988		0.157845	136.760836	
1.00000		11.903880	58.572876	0.963496
0.002988		0.597375	142.763948	

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		-5.546404	-113.340602	-1.052646
-0.003087		-1.168283	-167.972257	
0.57740		-5.546404	-113.340602	-1.052646
-0.003087		-0.726706	-126.761224	
0.71827		-5.546404	-113.340602	-1.052646
-0.003087		-0.295997	-95.272475	
0.85913		-5.546404	-113.340602	-1.052646
-0.003087		-0.147735	-78.891746	
1.00000		-5.546404	-113.340602	-1.052646
-0.003087		-0.543270	-63.632062	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43653		12.116634	110.167338	0.719336
0.007346		0.799772	207.432227	
0.57740		12.116634	110.167338	0.719336
0.007346		0.498009	171.400642	
0.71827		12.116634	110.167338	0.719336
0.007346		0.196254	146.834414	
0.85913		12.116634	110.167338	0.719336
0.007346		0.126014	134.895083	
1.00000		12.116634	110.167338	0.719336
0.007346		0.413171	143.348261	

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43653 -12.863329 -135.745190 -0.705219
-0.006779 -0.771711 -170.194931
0.57740 -12.863329 -135.745190 -0.705219
-0.006779 -0.476692 -127.743388
0.71827 -12.863329 -135.745190 -0.705219
-0.006779 -0.195248 -107.730903
0.85913 -12.863329 -135.745190 -0.705219
-0.006779 -0.111220 -88.275400
1.00000 -12.863329 -135.745190 -0.705219
-0.006779 -0.407285 -63.954670
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43653 11.903880 110.089238 0.991592
0.007184 1.104748 215.610115
0.57740 11.903880 110.089238 0.991592
0.007184 0.688699 183.039837
0.71827 11.903880 110.089238 0.991592
0.007184 0.275454 160.705842
0.85913 11.903880 110.089238 0.991592
0.007184 0.219546 153.161510
1.00000 11.903880 110.089238 0.991592
0.007184 0.793313 154.318879

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43653 -12.852728 -122.377005 -1.379850
-0.006689 -1.521465 -186.043225
0.57740 -12.852728 -122.377005 -1.379850
-0.006689 -0.942890 -151.412482
0.71827 -12.852728 -122.377005 -1.379850
-0.006689 -0.379658 -127.253927
0.85913 -12.852728 -122.377005 -1.379850
-0.006689 -0.152335 -104.140117
1.00000 -12.852728 -122.377005 -1.379850
-0.006689 -0.559033 -82.200390

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43653 12.116634 110.167338 0.991592
0.007346 1.104748 215.610115
0.57740 12.116634 110.167338 0.991592
0.007346 0.688699 183.039837
0.71827 12.116634 110.167338 0.991592
0.007346 0.275454 160.705842
0.85913 12.116634 110.167338 0.991592
0.007346 0.219546 153.161510
1.00000 12.116634 110.167338 0.991592
0.007346 0.793313 154.318879

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43653 -12.863329 -135.745190 -1.379850
-0.006779 -1.521465 -186.043225
0.57740 -12.863329 -135.745190 -1.379850
-0.006779 -0.942890 -151.412482
0.71827 -12.863329 -135.745190 -1.379850
-0.006779 -0.379658 -127.253927
0.85913 -12.863329 -135.745190 -1.379850
-0.006779 -0.152335 -104.140117
1.00000 -12.863329 -135.745190 -1.379850
-0.006779 -0.559033 -82.200390

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43653 12.116634 110.167338 0.991592
0.007346 1.104748 215.610115
0.57740 12.116634 110.167338 0.991592
0.007346 0.688699 183.039837
0.71827 12.116634 110.167338 0.991592
0.007346 0.275454 160.705842
0.85913 12.116634 110.167338 0.991592
0.007346 0.219546 153.161510
1.00000 12.116634 110.167338 0.991592
0.007346 0.793313 154.318879

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43653 -12.863329 -135.745190 -1.379850
-0.006779 -1.521465 -186.043225
0.57740 -12.863329 -135.745190 -1.379850
-0.006779 -0.942890 -151.412482
0.71827 -12.863329 -135.745190 -1.379850
-0.006779 -0.379658 -127.253927
0.85913 -12.863329 -135.745190 -1.379850
-0.006779 -0.152335 -104.140117
1.00000 -12.863329 -135.745190 -1.379850
-0.006779 -0.559033 -82.200390
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 255 ========== LENGTH = 2.977065

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.360359 77.385988 0.423315
0.000851 0.239728 2.915499
0.14083 0.360359 77.385988 0.423315
0.000851 0.062193 3.453527
0.28166 0.360359 77.385988 0.423315
0.000851 0.116148 4.007659
0.42250 0.360359 77.385988 0.423315
0.000851 0.294856 4.594561
0.56333 0.360359 77.385988 0.423315
0.000851 0.473576 6.459633

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.107199 -5.098815 -0.426285
-0.000317 -0.241333 -23.282624
0.14083 -10.107199 -5.098815 -0.426285
-0.000317 -0.062552 -55.418334
0.28166 -10.107199 -5.098815 -0.426285
-0.000317 -0.115500 -87.771670
0.42250 -10.107199 -5.098815 -0.426285
-0.000317 -0.292824 -120.129761
0.56333 -10.107199 -5.098815 -0.426285
-0.000317 -0.470224 -152.514751

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.159580 176.025139 0.609970
0.007332 0.367601 126.308979
0.14083 2.159580 176.025139 0.609970
0.007332 0.116310 100.790019
0.28166 2.159580 176.025139 0.609970
0.007332 0.161558 75.469794
0.42250 2.159580 176.025139 0.609970
0.007332 0.393887 68.823556
0.56333 2.159580 176.025139 0.609970
0.007332 0.637730 75.603559

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.031789 -25.891666 -0.596148
-0.006587 -0.363109 -10.254426
0.14083 -17.031789 -25.891666 -0.596148
-0.006587 -0.114182 -50.926543
0.28166 -17.031789 -25.891666 -0.596148
-0.006587 -0.167710 -92.069899
0.42250 -17.031789 -25.891666 -0.596148
-0.006587 -0.420354 -135.069501
0.56333 -17.031789 -25.891666 -0.596148
-0.006587 -0.676094 -199.786488

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.358927 143.793130 0.625966
0.005344 0.368329 127.243451
0.14083 6.358927 143.793130 0.625966
0.005344 0.109109 133.250444
0.28166 6.358927 143.793130 0.625966
0.005344 0.175580 139.270503
0.42250 6.358927 143.793130 0.625966
0.005344 0.436269 158.148411
0.56333 6.358927 143.793130 0.625966
0.005344 0.704770 186.306943

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.512123 -74.014672 -0.650311
-0.004702 -0.386558 -8.968842
0.14083 -14.512123 -74.014672 -0.650311
-0.004702 -0.114420 -46.489741
0.28166 -14.512123 -74.014672 -0.650311
-0.004702 -0.171485 -84.275021
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42250 -14.512123 -74.014672 -0.650311
-0.004702 -0.433122 -123.274938
0.56333 -14.512123 -74.014672 -0.650311
-0.004702 -0.695566 -177.033916

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.345525 121.435728 0.716880
0.004638 0.416964 107.821215
0.14083 8.345525 121.435728 0.716880
0.004638 0.119305 112.443044
0.28166 8.345525 121.435728 0.716880
0.004638 0.198822 119.518770
0.42250 8.345525 121.435728 0.716880
0.004638 0.496229 138.098410
0.56333 8.345525 121.435728 0.716880
0.004638 0.800127 167.782923

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.704634 -80.661101 -0.733042
-0.004312 -0.429818 -32.176767
0.14083 -12.704634 -80.661101 -0.733042
-0.004312 -0.122864 -56.239692
0.28166 -12.704634 -80.661101 -0.733042
-0.004312 -0.196534 -81.363230
0.42250 -12.704634 -80.661101 -0.733042
-0.004312 -0.496430 -108.471797
0.56333 -12.704634 -80.661101 -0.733042
-0.004312 -0.796996 -149.239615

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.650418 65.604558 0.159098
0.005268 0.109101 137.171927
0.14083 3.650418 65.604558 0.159098
0.005268 0.046191 128.712784
0.28166 3.650418 65.604558 0.159098
0.005268 0.039118 120.449944
0.42250 3.650418 65.604558 0.159098
0.005268 0.086525 127.387214
0.56333 3.650418 65.604558 0.159098
0.005268 0.143583 144.739569

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.303527 -48.912744 -0.148269
-0.005181 -0.105965 -1.397385
0.14083 -4.303527 -48.912744 -0.148269
-0.005181 -0.044638 -0.844714
0.28166 -4.303527 -48.912744 -0.148269
-0.005181 -0.042713 -0.526173
0.42250 -4.303527 -48.912744 -0.148269
-0.005181 -0.108388 -1.812585
0.56333 -4.303527 -48.912744 -0.148269
-0.005181 -0.175108 -21.330043

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.241152 61.296218 0.291598
0.005185 0.180711 143.591998
0.14083 8.241152 61.296218 0.291598
0.005185 0.062628 149.686727
0.28166 8.241152 61.296218 0.291598
0.005185 0.084125 159.103847
0.42250 8.241152 61.296218 0.291598
0.005185 0.202071 183.228417
0.56333 8.241152 61.296218 0.291598
0.005185 0.329005 217.627640

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.582324 -88.986706 -0.314070
-0.005034 -0.198521 -10.646962
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14083 -4.582324 -88.986706 -0.314070
-0.005034 -0.067453 -6.373772
0.28166 -4.582324 -88.986706 -0.314070
-0.005034 -0.080883 -3.450428
0.42250 -4.582324 -88.986706 -0.314070
-0.005034 -0.202198 -3.260443
0.56333 -4.582324 -88.986706 -0.314070
-0.005034 -0.324458 -21.309800

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.990865 122.384978 0.545242
0.004452 0.319639 139.066108
0.14083 7.990865 122.384978 0.545242
0.004452 0.094344 129.568451
0.28166 7.990865 122.384978 0.545242
0.004452 0.153427 141.191321
0.42250 7.990865 122.384978 0.545242
0.004452 0.381978 165.408892
0.56333 7.990865 122.384978 0.545242
0.004452 0.616882 197.603068

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.446006 -83.000960 -0.568284
-0.003928 -0.336734 -12.457940
0.14083 -11.446006 -83.000960 -0.568284
-0.003928 -0.098847 -14.630538
0.28166 -11.446006 -83.000960 -0.568284
-0.003928 -0.149644 -44.958473
0.42250 -11.446006 -83.000960 -0.568284
-0.003928 -0.377581 -77.491907
0.56333 -11.446006 -83.000960 -0.568284
-0.003928 -0.606185 -123.207765

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.685956 104.462189 0.671183
0.003827 0.388823 118.790820
0.14083 9.685956 104.462189 0.671183
0.003827 0.109977 109.884943
0.28166 9.685956 104.462189 0.671183
0.003827 0.185487 118.065723
0.42250 9.685956 104.462189 0.671183
0.003827 0.464161 137.064113
0.56333 9.685956 104.462189 0.671183
0.003827 0.748145 164.875746

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.713564 -84.457708 -0.684048
-0.003667 -0.399524 -41.882102
0.14083 -9.713564 -84.457708 -0.684048
-0.003667 -0.112996 -37.417271
0.28166 -9.713564 -84.457708 -0.684048
-0.003667 -0.184077 -56.219622
0.42250 -9.713564 -84.457708 -0.684048
-0.003667 -0.464956 -76.649898
0.56333 -9.713564 -84.457708 -0.684048
-0.003667 -0.746362 -107.901049

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.832481 4.169976 0.345348
0.000139 0.195087 5.274765
0.14083 4.832481 4.169976 0.345348
0.000139 0.050214 3.837988
0.28166 4.832481 4.169976 0.345348
0.000139 0.091957 2.531425
0.42250 4.832481 4.169976 0.345348
0.000139 0.232416 1.542506
0.56333 4.832481 4.169976 0.345348
0.000139 0.372884 1.872518
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.153220 -22.600377 -0.335216
-0.000609 -0.189399 -52.707201
0.14083 -0.153220 -22.600377 -0.335216
-0.000609 -0.048737 -43.622967
0.28166 -0.153220 -22.600377 -0.335216
-0.000609 -0.094507 -34.658338
0.42250 -0.153220 -22.600377 -0.335216
-0.000609 -0.239312 -25.711358
0.56333 -0.153220 -22.600377 -0.335216
-0.000609 -0.384104 -16.790002

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.650026 7.805779 0.542599
0.000624 0.306776 12.417343
0.14083 8.650026 7.805779 0.542599
0.000624 0.079324 13.448053
0.28166 8.650026 7.805779 0.542599
0.000624 0.146513 19.419507
0.42250 8.650026 7.805779 0.542599
0.000624 0.365857 27.074739
0.56333 8.650026 7.805779 0.542599
0.000624 0.587147 37.195478

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.223567 -50.366266 -0.528271
-0.001330 -0.298811 -69.991764
0.14083 -1.223567 -50.366266 -0.528271
-0.001330 -0.077217 -54.548293
0.28166 -1.223567 -50.366266 -0.528271
-0.001330 -0.148878 -40.654174
0.42250 -1.223567 -50.366266 -0.528271
-0.001330 -0.376358 -28.459591
0.56333 -1.223567 -50.366266 -0.528271
-0.001330 -0.603850 -18.620124

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.822065 9.507891 0.550760
0.000704 0.077158 67.742582
0.14083 11.822065 9.507891 0.550760
0.000704 0.081418 93.101462
0.28166 11.822065 9.507891 0.550760
0.000704 0.154425 121.286439
0.42250 11.822065 9.507891 0.550760
0.000704 0.392113 151.245125
0.56333 11.822065 9.507891 0.550760
0.000704 0.630386 183.557571

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.937949 -101.322313 -0.569039
-0.001161 -0.323964 -62.471371
0.14083 -0.937949 -101.322313 -0.569039
-0.001161 -0.085131 -49.312083
0.28166 -0.937949 -101.322313 -0.569039
-0.001161 -0.151790 -37.143549
0.42250 -0.937949 -101.322313 -0.569039
-0.001161 -0.382640 -26.194429
0.56333 -0.937949 -101.322313 -0.569039
-0.001161 -0.613557 -17.497429

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.825939 93.355078 0.657994
0.004160 0.383154 132.387916
0.14083 10.825939 93.355078 0.657994
0.004160 0.110177 120.555361
0.28166 10.825939 93.355078 0.657994
0.004160 0.180746 129.965038
0.42250 10.825939 93.355078 0.657994
0.004160 0.450602 140.056742
0.56333 10.825939 93.355078 0.657994
0.004160 0.726748 165.211029
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.689153 -87.496054 -0.666575
-0.004287 -0.391698 -53.778249
0.14083 -7.689153 -87.496054 -0.666575
-0.004287 -0.112510 -42.092982
0.28166 -7.689153 -87.496054 -0.666575
-0.004287 -0.180546 -46.564901
0.42250 -7.689153 -87.496054 -0.666575
-0.004287 -0.455779 -57.965982
0.56333 -7.689153 -87.496054 -0.666575
-0.004287 -0.731653 -82.135024

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.462625 78.670026 0.563187
0.000747 0.318682 3.744001
0.14083 0.462625 78.670026 0.563187
0.000747 0.082852 4.144700
0.28166 0.462625 78.670026 0.563187
0.000747 0.254986 4.539045
0.42250 0.462625 78.670026 0.563187
0.000747 0.630550 5.156580
0.56333 0.462625 78.670026 0.563187
0.000747 1.005937 7.314203

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.437829 -5.906343 -0.895309
-0.000262 -0.495401 -31.951786
0.14083 -10.437829 -5.906343 -0.895309
-0.000262 -0.120305 -63.302510
0.28166 -10.437829 -5.906343 -0.895309
-0.000262 -0.152586 -94.672264
0.42250 -10.437829 -5.906343 -0.895309
-0.000262 -0.388927 -126.135785
0.56333 -10.437829 -5.906343 -0.895309
-0.000262 -0.625223 -158.692064

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.574386 173.294365 0.908457
0.007244 0.543452 138.403334
0.14083 2.574386 173.294365 0.908457
0.007244 0.164490 111.531502
0.28166 2.574386 173.294365 0.908457
0.007244 0.324310 84.920397
0.42250 2.574386 173.294365 0.908457
0.007244 0.788562 75.579333
0.56333 2.574386 173.294365 0.908457
0.007244 1.274533 81.456804

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.766990 -24.578804 -1.164182
-0.006543 -0.678575 -19.751013
0.14083 -16.766990 -24.578804 -1.164182
-0.006543 -0.191513 -57.592653
0.28166 -16.766990 -24.578804 -1.164182
-0.006543 -0.249767 -95.775964
0.42250 -16.766990 -24.578804 -1.164182
-0.006543 -0.625025 -136.339833
0.56333 -16.766990 -24.578804 -1.164182
-0.006543 -1.004717 -204.822168

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.133228 143.318678 0.919804
0.005445 0.541927 147.770295
0.14083 6.133228 143.318678 0.919804
0.005445 0.157110 149.076152
0.28166 6.133228 143.318678 0.919804
0.005445 0.344918 150.586288
0.42250 6.133228 143.318678 0.919804
0.005445 0.848104 164.507187
0.56333 6.133228 143.318678 0.919804
0.005445 1.366763 189.523029
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.618273 -67.582685 -1.241067
-0.004847 -0.714210 -17.603969
0.14083 -14.618273 -67.582685 -1.241067
-0.004847 -0.194682 -52.421560
0.28166 -14.618273 -67.582685 -1.241067
-0.004847 -0.252182 -87.419608
0.42250 -14.618273 -67.582685 -1.241067
-0.004847 -0.633683 -124.135881
0.56333 -14.618273 -67.582685 -1.241067
-0.004847 -1.018447 -180.957937

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.938254 121.374968 1.012501
0.004678 0.704687 125.302308
0.14083 7.938254 121.374968 1.012501
0.004678 0.166238 125.994803
0.28166 7.938254 121.374968 1.012501
0.004678 0.382743 129.169483
0.42250 7.938254 121.374968 1.012501
0.004678 0.945862 143.444095
0.56333 7.938254 121.374968 1.012501
0.004678 1.522340 171.420783

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.889376 -78.497415 -1.378416
-0.004358 -0.788520 -41.706845
0.14083 -12.889376 -78.497415 -1.378416
-0.004358 -0.211290 -62.319948
0.28166 -12.889376 -78.497415 -1.378416
-0.004358 -0.278007 -84.460339
0.42250 -12.889376 -78.497415 -1.378416
-0.004358 -0.699097 -108.577366
0.56333 -12.889376 -78.497415 -1.378416
-0.004358 -1.122812 -153.102752

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.911063 55.371798 0.290807
0.004460 0.184818 142.631209
0.14083 3.911063 55.371798 0.290807
0.004460 0.064472 136.980661
0.28166 3.911063 55.371798 0.290807
0.004460 0.053840 131.541609
0.42250 3.911063 55.371798 0.290807
0.004460 0.125919 137.823343
0.56333 3.911063 55.371798 0.290807
0.004460 0.213199 153.847112

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.649511 -45.591920 -0.211836
-0.004368 -0.142616 -1.634102
0.14083 -3.649511 -45.591920 -0.211836
-0.004368 -0.054504 -0.976487
0.28166 -3.649511 -45.591920 -0.211836
-0.004368 -0.084207 -0.607798
0.42250 -3.649511 -45.591920 -0.211836
-0.004368 -0.201762 -1.736587
0.56333 -3.649511 -45.591920 -0.211836
-0.004368 -0.322710 -21.741951

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.636810 53.005668 0.451238
0.004500 0.274671 154.299026
0.14083 7.636810 53.005668 0.451238
0.004500 0.086283 161.124192
0.28166 7.636810 53.005668 0.451238
0.004500 0.144791 171.567864
0.42250 7.636810 53.005668 0.451238
0.004500 0.352697 193.823919
0.56333 7.636810 53.005668 0.451238
0.004500 0.576270 225.728964
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2774

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.292536 -83.140291 -0.536951
-0.004340 -0.323649 -10.310635
0.14083 -4.292536 -83.140291 -0.536951
-0.004340 -0.099510 -5.866662
0.28166 -4.292536 -83.140291 -0.536951
-0.004340 -0.126673 -3.635131
0.42250 -4.292536 -83.140291 -0.536951
-0.004340 -0.311518 -3.330367
0.56333 -4.292536 -83.140291 -0.536951
-0.004340 -0.499757 -22.228351

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.580596 113.029548 0.816290
0.003610 0.474762 152.347632
0.14083 7.580596 113.029548 0.816290
0.003610 0.133334 139.571108
0.28166 7.580596 113.029548 0.816290
0.003610 0.281683 151.280969
0.42250 7.580596 113.029548 0.816290
0.003610 0.698065 174.053553
0.56333 7.580596 113.029548 0.816290
0.003610 1.124839 204.294789

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.746189 -78.363686 -1.020136
-0.003131 -0.158299 -13.132846
0.14083 -10.746189 -78.363686 -1.020136
-0.003131 -0.158291 -13.301721
0.28166 -10.746189 -78.363686 -1.020136
-0.003131 -0.223909 -40.513108
0.42250 -10.746189 -78.363686 -1.020136
-0.003131 -0.563372 -71.398764
0.56333 -10.746189 -78.363686 -1.020136
-0.003131 -0.905161 -116.074115

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.429534 97.281187 0.971573
0.003126 0.559837 130.852602
0.14083 9.429534 97.281187 0.971573
0.003126 0.152850 118.936042
0.28166 9.429534 97.281187 0.971573
0.003126 0.326781 126.715214
0.42250 9.429534 97.281187 0.971573
0.003126 0.816408 143.329776
0.56333 9.429534 97.281187 0.971573
0.003126 1.314314 170.257348

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.211076 -85.378385 -1.189597
-0.002950 -0.679675 -48.546246
0.14083 -9.211076 -85.378385 -1.189597
-0.002950 -0.181456 -40.455118
0.28166 -9.211076 -85.378385 -1.189597
-0.002950 -0.266777 -54.464351
0.42250 -9.211076 -85.378385 -1.189597
-0.002950 -0.671839 -71.558091
0.56333 -9.211076 -85.378385 -1.189597
-0.002950 -1.078829 -102.010764

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.295149 5.159686 0.488786
0.000126 0.275301 6.678513
0.14083 5.295149 5.159686 0.488786
0.000126 0.070341 4.868333
0.28166 5.295149 5.159686 0.488786
0.000126 0.136306 3.175664
0.42250 5.295149 5.159686 0.488786
0.000126 0.349067 1.722397
0.56333 5.295149 5.159686 0.488786
0.000126 0.561613 2.108770
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2775

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.224748 -29.485125 -0.506816
-0.000527 -0.287696 -64.344801
0.14083 -0.224748 -29.485125 -0.506816
-0.000527 -0.075434 -52.362076
0.28166 -0.224748 -29.485125 -0.506816
-0.000527 -0.134336 -40.496878
0.42250 -0.224748 -29.485125 -0.506816
-0.000527 -0.339385 -28.767393
0.56333 -0.224748 -29.485125 -0.506816
-0.000527 -0.544298 -18.478473

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.650242 8.219727 0.739176
0.000502 0.416924 13.658440
0.14083 8.650242 8.219727 0.739176
0.000502 0.107012 15.014163
0.28166 8.650242 8.219727 0.739176
0.000502 0.248948 21.652615
0.42250 8.650242 8.219727 0.739176
0.000502 0.626867 29.872241
0.56333 8.650242 8.219727 0.739176
0.000502 1.006307 40.933434

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.470563 -59.893346 -0.905072
-0.001092 -0.511334 -82.249566
0.14083 -1.470563 -59.893346 -0.905072
-0.001092 -0.132102 -62.812923
0.28166 -1.470563 -59.893346 -0.905072
-0.001092 -0.203769 -46.529575
0.42250 -1.470563 -59.893346 -0.905072
-0.001092 -0.513572 -31.185893
0.56333 -1.470563 -59.893346 -0.905072
-0.001092 -0.823377 -19.714512

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.531411 6.976705 0.766366
0.000249 0.431847 79.541113
0.14083 11.531411 6.976705 0.766366
0.000249 0.110990 103.157982
0.28166 11.531411 6.976705 0.766366
0.000249 0.246356 130.465538
0.42250 11.531411 6.976705 0.766366
0.000249 0.626219 158.768701
0.56333 11.531411 6.976705 0.766366
0.000249 1.006736 189.324459

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.094305 -103.783974 -0.907775
-0.000747 -0.514545 -73.599821
0.14083 -1.094305 -103.783974 -0.907775
-0.000747 -0.133255 -56.908033
0.28166 -1.094305 -103.783974 -0.907775
-0.000747 -0.211377 -42.391205
0.42250 -1.094305 -103.783974 -0.907775
-0.000747 -0.532642 -28.641479
0.56333 -1.094305 -103.783974 -0.907775
-0.000747 -0.853897 -17.617598

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.807037 83.334075 0.980520
0.003075 0.565275 142.734380
0.14083 10.807037 83.334075 0.980520
0.003075 0.154889 131.624161
0.28166 10.807037 83.334075 0.980520
0.003075 0.299606 134.714548
0.42250 10.807037 83.334075 0.980520
0.003075 0.750892 150.170510
0.56333 10.807037 83.334075 0.980520
0.003075 1.211636 174.340341
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2776

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.056919 -90.424329 -1.100613
-0.003253 -0.633548 -63.653078
0.14083 -7.056919 -90.424329 -1.100613
-0.003253 -0.171833 -48.864561
0.28166 -7.056919 -90.424329 -1.100613
-0.003253 -0.270007 -48.402706
0.42250 -7.056919 -90.424329 -1.100613
-0.003253 -0.678821 -55.493522
0.56333 -7.056919 -90.424329 -1.100613
-0.003253 -1.089362 -76.544721

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.822065 176.025139 0.716880
0.007332 0.416964 143.591998
0.14083 11.822065 176.025139 0.716880
0.007332 0.119305 149.686727
0.28166 11.822065 176.025139 0.716880
0.007332 0.198822 159.103847
0.42250 11.822065 176.025139 0.716880
0.007332 0.496229 181.221417
0.56333 11.822065 176.025139 0.716880
0.007332 0.800127 217.627640

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.031789 -101.322313 -0.733042
-0.006587 -0.429818 -69.991764
0.14083 -17.031789 -101.322313 -0.733042
-0.006587 -0.122864 -56.239692
0.28166 -17.031789 -101.322313 -0.733042
-0.006587 -0.196534 -92.069899
0.42250 -17.031789 -101.322313 -0.733042
-0.006587 -0.496430 -135.069501
0.56333 -17.031789 -101.322313 -0.733042
-0.006587 -0.796996 -199.786488

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.531411 173.294365 1.012501
0.007244 0.590182 154.299026
0.14083 11.531411 173.294365 1.012501
0.007244 0.166238 161.124192
0.28166 11.531411 173.294365 1.012501
0.007244 0.382743 171.567864
0.42250 11.531411 173.294365 1.012501
0.007244 0.945862 193.823919
0.56333 11.531411 173.294365 1.012501
0.007244 1.522340 225.728964

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.766990 -103.783974 -1.378416
-0.006543 -0.788520 -82.249566
0.14083 -16.766990 -103.783974 -1.378416
-0.006543 -0.211290 -63.302510
0.28166 -16.766990 -103.783974 -1.378416
-0.006543 -0.278007 -95.775964
0.42250 -16.766990 -103.783974 -1.378416
-0.006543 -0.699097 -136.339833
0.56333 -16.766990 -103.783974 -1.378416
-0.006543 -1.122812 -204.822168

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.822065 176.025139 1.012501
0.007332 0.590182 154.299026
0.14083 11.822065 176.025139 1.012501
0.007332 0.166238 161.124192
0.28166 11.822065 176.025139 1.012501
0.007332 0.382743 171.567864
0.42250 11.822065 176.025139 1.012501
0.007332 0.945862 193.823919
0.56333 11.822065 176.025139 1.012501
0.007332 1.522340 225.728964
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2777

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.031789 -103.783974 -1.378416
-0.006587 -0.788520 -82.249566
0.14083 -17.031789 -103.783974 -1.378416
-0.006587 -0.211290 -63.302510
0.28166 -17.031789 -103.783974 -1.378416
-0.006587 -0.278007 -95.775964
0.42250 -17.031789 -103.783974 -1.378416
-0.006587 -0.699097 -136.339833
0.56333 -17.031789 -103.783974 -1.378416
-0.006587 -1.122812 -204.822168

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.822065 176.025139 1.012501
0.007332 0.590182 154.299026
0.14083 11.822065 176.025139 1.012501
0.007332 0.166238 161.124192
0.28166 11.822065 176.025139 1.012501
0.007332 0.382743 171.567864
0.42250 11.822065 176.025139 1.012501
0.007332 0.945862 193.823919
0.56333 11.822065 176.025139 1.012501
0.007332 1.522340 225.728964

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.031789 -103.783974 -1.378416
-0.006587 -0.788520 -82.249566
0.14083 -17.031789 -103.783974 -1.378416
-0.006587 -0.211290 -63.302510
0.28166 -17.031789 -103.783974 -1.378416
-0.006587 -0.278007 -95.775964
0.42250 -17.031789 -103.783974 -1.378416
-0.006587 -0.699097 -136.339833
0.56333 -17.031789 -103.783974 -1.378416
-0.006587 -1.122812 -204.822168

ELEM 256 ========== LENGTH = 2.977536

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 0.412841 80.866343 0.413576
0.000575 0.463612 113.861350
0.57745 0.412841 80.866343 0.413576
0.000575 0.290165 80.008660
0.71830 0.412841 80.866343 0.413576
0.000575 0.116697 46.244910
0.85915 0.412841 80.866343 0.413576
0.000575 0.059804 12.757425
1.00000 0.412841 80.866343 0.413576
0.000575 0.227526 2.859176

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -11.433965 -3.574045 -0.409394
-0.000805 -0.459260 -6.917106
0.57745 -11.433965 -3.574045 -0.409394
-0.000805 -0.287565 -5.628081
0.71830 -11.433965 -3.574045 -0.409394
-0.000805 -0.115874 -4.666867
0.85915 -11.433965 -3.574045 -0.409394
-0.000805 -0.056700 -3.850765
1.00000 -11.433965 -3.574045 -0.409394
-0.000805 -0.230184 -22.958629

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 4.739366 113.726974 0.682712
0.006928 0.749664 213.268599
0.57745 4.739366 113.726974 0.682712
0.006928 0.463346 170.763228
0.71830 4.739366 113.726974 0.682712
0.006928 0.180272 139.760978
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2778

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85915 4.739366 113.726974 0.682712
0.006928 0.097307 126.935917
1.00000 4.739366 113.726974 0.682712
0.006928 0.312972 126.595293

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -14.405101 -84.622159 -0.541397
-0.007207 -0.607863 -30.480284
0.57745 -14.405101 -84.622159 -0.541397
-0.007207 -0.380796 -10.005367
0.71830 -14.405101 -84.622159 -0.541397
-0.007207 -0.153773 -7.037388
0.85915 -14.405101 -84.622159 -0.541397
-0.007207 -0.119703 -5.650920
1.00000 -14.405101 -84.622159 -0.541397
-0.007207 -0.395608 -9.460629

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 7.945361 102.234810 0.757826
0.005211 0.844048 199.932609
0.57745 7.945361 102.234810 0.757826
0.005211 0.526228 162.144790
0.71830 7.945361 102.234810 0.757826
0.005211 0.210373 133.091811
0.85915 7.945361 102.234810 0.757826
0.005211 0.096699 119.031981
1.00000 7.945361 102.234810 0.757826
0.005211 0.332765 128.342067

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -13.194088 -113.652537 -0.581244
-0.005430 -0.650936 -73.088617
0.57745 -13.194088 -113.652537 -0.581244
-0.005430 -0.407164 -34.551439
0.71830 -13.194088 -113.652537 -0.581244
-0.005430 -0.163340 -8.370221
0.85915 -13.194088 -113.652537 -0.581244
-0.005430 -0.116880 -5.687261
1.00000 -13.194088 -113.652537 -0.581244
-0.005430 -0.427342 -7.837181

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 9.721108 86.199291 0.819684
0.004498 0.913636 169.621369
0.57745 9.721108 86.199291 0.819684
0.004498 0.569870 137.700695
0.71830 9.721108 86.199291 0.819684
0.004498 0.227727 113.035316
0.85915 9.721108 86.199291 0.819684
0.004498 0.111435 100.844163
1.00000 9.721108 86.199291 0.819684
0.004498 0.388792 108.075738

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -12.006973 -114.548366 -0.676456
-0.004552 -0.753166 -116.852051
0.57745 -12.006973 -114.548366 -0.676456
-0.004552 -0.469464 -76.686480
0.71830 -12.006973 -114.548366 -0.676456
-0.004552 -0.186436 -47.375814
0.85915 -12.006973 -114.548366 -0.676456
-0.004552 -0.123820 -37.498789
1.00000 -12.006973 -114.548366 -0.676456
-0.004552 -0.461504 -31.435149

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 5.661930 9.869590 0.264102
0.005505 0.287339 54.382305
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2779

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57745 5.661930 9.869590 0.264102
0.005505 0.176588 55.777515
0.71830 5.661930 9.869590 0.264102
0.005505 0.068059 67.352748
0.85915 5.661930 9.869590 0.264102
0.005505 0.032541 97.674909
1.00000 5.661930 9.869590 0.264102
0.005505 0.063084 137.906436

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -0.875088 -99.352983 -0.096426
-0.005519 -0.109220 -37.966459
0.57745 -0.875088 -99.352983 -0.096426
-0.005519 -0.068738 -8.654617
0.71830 -0.875088 -99.352983 -0.096426
-0.005519 -0.028277 -1.827343
0.85915 -0.875088 -99.352983 -0.096426
-0.005519 -0.061393 -1.445665
1.00000 -0.875088 -99.352983 -0.096426
-0.005519 -0.155877 -1.068898

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 9.985127 9.132476 0.452382
0.005441 0.499681 54.884530
0.57745 9.985127 9.132476 0.452382
0.005441 0.309955 56.812281
0.71830 9.985127 9.132476 0.452382
0.005441 0.122491 68.691721
0.85915 9.985127 9.132476 0.452382
0.005441 0.062345 97.621377
1.00000 9.985127 9.132476 0.452382
0.005441 0.165429 144.698278

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -1.843209 -136.574694 -0.267048
-0.005392 -0.262423 -98.457711
0.57745 -1.843209 -136.574694 -0.267048
-0.005392 -0.180449 -51.861899
0.71830 -1.843209 -136.574694 -0.267048
-0.005392 -0.069402 -20.210283
0.85915 -1.843209 -136.574694 -0.267048
-0.005392 -0.078000 -14.361958
1.00000 -1.843209 -136.574694 -0.267048
-0.005392 -0.259335 -9.937104

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 9.229817 88.185666 0.674181
0.004286 0.751481 205.301331
0.57745 9.229817 88.185666 0.674181
0.004286 0.468736 172.847018
0.71830 9.229817 88.185666 0.674181
0.004286 0.187609 147.755789
0.85915 9.229817 88.185666 0.674181
0.004286 0.089996 135.740552
1.00000 9.229817 88.185666 0.674181
0.004286 0.300600 140.596789

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -10.460452 -115.492524 -0.517040
-0.004372 -0.573714 -91.220667
0.57745 -10.460452 -115.492524 -0.517040
-0.004372 -0.356898 -50.407517
0.71830 -10.460452 -115.492524 -0.517040
-0.004372 -0.140911 -21.225163
0.85915 -10.460452 -115.492524 -0.517040
-0.004372 -0.102755 -15.516079
1.00000 -10.460452 -115.492524 -0.517040
-0.004372 -0.379596 -10.933071
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2780

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 10.890005 74.750232 0.769690
0.003720 0.858702 174.990770
0.57745 10.890005 74.750232 0.769690
0.003720 0.535903 147.426283
0.71830 10.890005 74.750232 0.769690
0.003720 0.214439 126.028743
0.85915 10.890005 74.750232 0.769690
0.003720 0.101490 115.525691
1.00000 10.890005 74.750232 0.769690
0.003720 0.359376 119.131741

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -8.908443 -112.959534 -0.626949
-0.003651 -0.698203 -135.920825
0.57745 -8.908443 -112.959534 -0.626949
-0.003651 -0.435287 -94.981173
0.71830 -8.908443 -112.959534 -0.626949
-0.003651 -0.172892 -63.475294
0.85915 -8.908443 -112.959534 -0.626949
-0.003651 -0.114692 -51.772812
1.00000 -8.908443 -112.959534 -0.626949
-0.003651 -0.432570 -41.079028

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 5.194733 2.250417 0.330477
0.000179 0.369695 7.047797
0.57745 5.194733 2.250417 0.330477
0.000179 0.231099 6.109059
0.71830 5.194733 2.250417 0.330477
0.000179 0.092492 5.181924
0.85915 5.194733 2.250417 0.330477
0.000179 0.044674 4.317833
1.00000 5.194733 2.250417 0.330477
0.000179 0.177814 3.513366

COMB DB-G3-1 ---------- MIN

```
REL DIST          P          V2          V3
     T          M2          M3
0.43660   -0.163023   -24.611544   -0.317364
-1.32E-05   -0.354589   -94.535717
0.57745   -0.163023   -24.611544   -0.317364
-1.32E-05   -0.221491   -84.272036
0.71830   -0.163023   -24.611544   -0.317364
-1.32E-05   -0.088390   -74.037895
0.85915   -0.163023   -24.611544   -0.317364
-1.32E-05   -0.046048   -63.803985
1.00000   -0.163023   -24.611544   -0.317364
-1.32E-05   -0.184697   -53.602320

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    9.057289    3.277486    0.523952
0.000642    0.585267   10.442354
0.57745    9.057289    3.277486    0.523952
0.000642    0.365585    9.403101
0.71830    9.057289    3.277486    0.523952
0.000642    0.146381    8.906203
0.85915    9.057289    3.277486    0.523952
0.000642    0.085684    9.075342
1.00000    9.057289    3.277486    0.523952
0.000642    0.309487   10.123824

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -1.683071   -55.024037   -0.534370
-0.000344   -0.587348   -154.759643
0.57745   -1.683071   -55.024037   -0.534370
-0.000344   -0.363238   -132.607889
0.71830   -1.683071   -55.024037   -0.534370
-0.000344   -0.140340   -111.476023
0.85915   -1.683071   -55.024037   -0.534370
-0.000344   -0.074160   -90.548196
1.00000   -1.683071   -55.024037   -0.534370
-0.000344   -0.293673   -70.842205
Program  SAP2000  Nonlinear  Version  7.42
                  File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                  >
                                   2781

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   12.063979    3.880232    0.646957
 0.001053    0.725619   31.225318
0.57745   12.063979    3.880232    0.646957
 0.001053    0.452295   31.843530
0.71830   12.063979    3.880232    0.646957
 0.001053    0.183269   34.437935
0.85915   12.063979    3.880232    0.646957
 0.001053    0.079857   42.188979
1.00000   12.063979    3.880232    0.646957
 0.001053    0.298463   66.932833

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -1.136950   -106.578742   -0.522430
-0.000786   -0.578605   -175.332666
0.57745   -1.136950   -106.578742   -0.522430
-0.000786   -0.359534   -131.540942
0.71830   -1.136950   -106.578742   -0.522430
-0.000786   -0.141219   -92.436213
0.85915   -1.136950   -106.578742   -0.522430
-0.000786   -0.089203   -77.134841
1.00000   -1.136950   -106.578742   -0.522430
-0.000786   -0.359817   -62.846979

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   12.517827   56.774276    0.759838
 0.004084    0.846403  151.201120
0.57745   12.517827   56.774276    0.759838
 0.004084    0.527739  131.546532
0.71830   12.517827   56.774276    0.759838
 0.004084    0.210650  118.950844
0.85915   12.517827   56.774276    0.759838
 0.004084    0.107706  118.560588
1.00000   12.517827   56.774276    0.759838
 0.004084    0.350448  132.153478

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -6.182577   -121.808357   -0.607763
-0.003988   -0.676017   -155.700257
0.57745   -6.182577   -121.808357   -0.607763
-0.003988   -0.421151   -112.114067
0.71830   -6.182577   -121.808357   -0.607763
-0.003988   -0.166908   -70.230892
0.85915   -6.182577   -121.808357   -0.607763
-0.003988   -0.115463   -65.859680
1.00000   -6.182577   -121.808357   -0.607763
-0.003988   -0.428351   -53.541304

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    0.526294   82.157119    0.576265
 0.000466    0.651566  113.539496
0.57745    0.526294   82.157119    0.576265
 0.000466    0.409771   79.282183
0.71830    0.526294   82.157119    0.576265
 0.000466    0.168077   45.325689
0.85915    0.526294   82.157119    0.576265
 0.000466    0.132612   12.722183
1.00000    0.526294   82.157119    0.576265
 0.000466    0.490673    3.627262

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -11.661298   -3.904070   -0.862104
-0.000714   -0.955756   -9.266535
0.57745   -11.661298   -3.904070   -0.862104
-0.000714   -0.594244   -7.810240
0.71830   -11.661298   -3.904070   -0.862104
-0.000714   -0.232810   -6.832151
0.85915   -11.661298   -3.904070   -0.862104
-0.000714   -0.074915   -7.027252
1.00000   -11.661298   -3.904070   -0.862104
-0.000714   -0.314777   -30.271478
Program  SAP2000  Nonlinear  Version  7.42
                  File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                  >
                                   2782

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    5.597450   113.848050    1.070167
 0.006799    1.190424  222.480582
0.57745    5.597450   113.848050    1.070167
 0.006799    0.742635  180.731918
0.71830    5.597450   113.848050    1.070167
 0.006799    0.296683  151.768111
0.85915    5.597450   113.848050    1.070167
 0.006799    0.188511  138.013351
1.00000    5.597450   113.848050    1.070167
 0.006799    0.639064  138.759052

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -14.361222   -80.904754   -1.077293
-0.007086   -1.189261   -35.631426
0.57745   -14.361222   -80.904754   -1.077293
-0.007086   -0.740550   -12.533596
0.71830   -14.361222   -80.904754   -1.077293
-0.007086   -0.293832   -9.322090
0.85915   -14.361222   -80.904754   -1.077293
-0.007086   -0.171850   -7.717490
1.00000   -14.361222   -80.904754   -1.077293
-0.007086   -0.610184   -17.514084

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    8.151097   101.823091    1.176536
 0.005213    1.312756  205.422423
0.57745    8.151097   101.823091    1.176536
 0.005213    0.820144  169.387618
0.71830    8.151097   101.823091    1.176536
 0.005213    0.329059  144.616702
0.85915    8.151097   101.823091    1.176536
 0.005213    0.186232  138.262868
1.00000    8.151097   101.823091    1.176536
 0.005213    0.657895  148.635006

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -13.287111   -107.352196   -1.127399
-0.005447   -1.247301   -68.570154
0.57745   -13.287111   -107.352196   -1.127399
-0.005447   -0.776732   -33.162461
0.71830   -13.287111   -107.352196   -1.127399
-0.005447   -0.308100   -12.728195
0.85915   -13.287111   -107.352196   -1.127399
-0.005447   -0.179405   -7.988725
1.00000   -13.287111   -107.352196   -1.127399
-0.005447   -0.665096   -15.282547

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    9.638450   86.029807    1.292260
 0.004465    1.441123  174.798428
0.57745    9.638450   86.029807    1.292260
 0.004465    0.899916  144.279164
0.71830    9.638450   86.029807    1.292260
 0.004465    0.359924  123.125548
0.85915    9.638450   86.029807    1.292260
 0.004465    0.204131  117.227470
1.00000    9.638450   86.029807    1.292260
 0.004465    0.734201  125.235285

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -12.016157   -112.519153   -1.266809
-0.004560   -1.402236   -121.420637
0.57745   -12.016157   -112.519153   -1.266809
-0.004560   -0.872740   -82.406446
0.71830   -12.016157   -112.519153   -1.266809
-0.004560   -0.344737   -55.978772
0.85915   -12.016157   -112.519153   -1.266809
-0.004560   -0.194674   -42.951931
1.00000   -12.016157   -112.519153   -1.266809
-0.004560   -0.730400   -39.765187
Program  SAP2000  Nonlinear  Version  7.42
                  File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                  >
                                   2783

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    5.868172   10.678815    0.476261
 0.004607    0.517236  66.284765
0.57745    5.868172   10.678815    0.476261
 0.004607    0.318744  68.678149
0.71830    5.868172   10.678815    0.476261
 0.004607    0.123422  82.767213
0.85915    5.868172   10.678815    0.476261
 0.004607    0.042038  110.215598
1.00000    5.868172   10.678815    0.476261
 0.004607    0.108888  143.482731

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -1.065235   -86.110236   -0.159602
-0.004622   -0.173854   -36.380871
0.57745   -1.065235   -86.110236   -0.159602
-0.004622   -0.109000   -10.029197
0.71830   -1.065235   -86.110236   -0.159602
-0.004622   -0.045303   -2.204303
0.85915   -1.065235   -86.110236   -0.159602
-0.004622   -0.092459   -1.738203
1.00000   -1.065235   -86.110236   -0.159602
-0.004622   -0.285609   -1.290119

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    9.413249   10.056153    0.737893
 0.004652    0.813684  63.957586
0.57745    9.413249   10.056153    0.737893
 0.004652    0.505061  66.857176
0.71830    9.413249   10.056153    0.737893
 0.004652    0.197750  81.189237
0.85915    9.413249   10.056153    0.737893
 0.004652    0.088396  114.429207
1.00000    9.413249   10.056153    0.737893
 0.004652    0.281974  155.295250

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -2.060637   -122.822584   -0.462366
-0.004624   -0.506608   -90.477219
0.57745   -2.060637   -122.822584   -0.462366
-0.004624   -0.314768   -48.768619
0.71830   -2.060637   -122.822584   -0.462366
-0.004624   -0.124562   -22.077732
0.85915   -2.060637   -122.822584   -0.462366
-0.004624   -0.125800   -14.628524
1.00000   -2.060637   -122.822584   -0.462366
-0.004624   -0.428926   -9.595796

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    8.868250   87.909515    1.100381
 0.003390    1.228041  216.319210
0.57745    8.868250   87.909515    1.100381
 0.003390    0.767049  185.179745
0.71830    8.868250   87.909515    1.100381
 0.003390    0.306995  162.464598
0.85915    8.868250   87.909515    1.100381
 0.003390    0.146564  154.556690
1.00000    8.868250   87.909515    1.100381
 0.003390    0.533566  153.664304

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -10.181118   -102.602850   -0.923636
-0.003492   -1.023995   -84.747436
0.57745   -10.181118   -102.602850   -0.923636
-0.003492   -0.637923   -48.982205
0.71830   -10.181118   -102.602850   -0.923636
-0.003492   -0.253159   -23.925880
0.85915   -10.181118   -102.602850   -0.923636
-0.003492   -0.163964   -16.711899
1.00000   -10.181118   -102.602850   -0.923636
-0.003492   -0.620648   -11.432239
Program  SAP2000  Nonlinear  Version  7.42
                  File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                  >
                                   2784

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   10.631036   74.860723    1.284573
 0.002959    1.431396  185.255864
0.57745   10.631036   74.860723    1.284573
 0.002959    0.893590  158.640778
0.71830   10.631036   74.860723    1.284573
 0.002959    0.355921  139.065732
0.85915   10.631036   74.860723    1.284573
 0.002959    0.164427  131.951951
1.00000   10.631036   74.860723    1.284573
 0.002959    0.614574  130.732928

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -8.777052   -106.980221   -1.074281
-0.002918   -1.194073   -143.851478
0.57745   -8.777052   -106.980221   -1.074281
-0.002918   -0.744510   -105.174601
0.71830   -8.777052   -106.980221   -1.074281
-0.002918   -0.295917   -75.438239
0.85915   -8.777052   -106.980221   -1.074281
-0.002918   -0.190809   -60.470350
1.00000   -8.777052   -106.980221   -1.074281
-0.002918   -0.725428   -47.359611

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    5.612329    2.788407    0.626821
 0.000175    0.694817    8.838822
0.57745    5.612329    2.788407    0.626821
 0.000175    0.432076    7.678226
0.71830    5.612329    2.788407    0.626821
 0.000175    0.169118    6.538669
0.85915    5.612329    2.788407    0.626821
 0.000175    0.065813    5.424516
1.00000    5.612329    2.788407    0.626821
 0.000175    0.263390    4.422853

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -0.217526   -31.557798   -0.470314
-9.78E-06   -0.524873   -117.407413
0.57745   -0.217526   -31.557798   -0.470314
-9.78E-06   -0.357538   -104.198446
0.71830   -0.217526   -31.557798   -0.470314
-9.78E-06   -0.130173   -91.021815
0.85915   -0.217526   -31.557798   -0.470314
-9.78E-06   -0.093787   -77.884959
1.00000   -0.217526   -31.557798   -0.470314
-9.78E-06   -0.356660   -64.849638

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660    8.990498    3.927025    0.947926
 0.000507    1.052892   12.757028
0.57745    8.990498    3.927025    0.947926
 0.000507    0.655483   11.362543
0.71830    8.990498    3.927025    0.947926
 0.000507    0.258046   10.299136
0.85915    8.990498    3.927025    0.947926
 0.000507    0.129164    9.933937
1.00000    8.990498    3.927025    0.947926
 0.000507    0.492112   10.910821

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -1.730945   -64.092003   -0.865344
-0.000263   -0.958747   -182.442554
0.57745   -1.730945   -64.092003   -0.865344
-0.000263   -0.595771   -156.088626
0.71830   -1.730945   -64.092003   -0.865344
-0.000263   -0.232982   -130.446101
0.85915   -1.730945   -64.092003   -0.865344
-0.000263   -0.140656   -105.862239
1.00000   -1.730945   -64.092003   -0.865344
-0.000263   -0.537737   -82.494782
Program  SAP2000  Nonlinear  Version  7.42
                  File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                  >
                                   2785

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   11.636918    4.188385    1.108203
 0.000608    1.230815   34.950954
0.57745   11.636918    4.188385    1.108203
 0.000608    0.766225   36.969138
0.71830   11.636918    4.188385    1.108203
 0.000608    0.301619   42.620618
0.85915   11.636918    4.188385    1.108203
 0.000608    0.119057   56.738990
1.00000   11.636918    4.188385    1.108203
 0.000608    0.465912   78.039878

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -1.414111   -105.965410   -0.826152
-0.000400   -0.918464   -190.514617
0.57745   -1.414111   -105.965410   -0.826152
-0.000400   -0.572091   -149.268536
0.71830   -1.414111   -105.965410   -0.826152
-0.000400   -0.225483   -111.296893
0.85915   -1.414111   -105.965410   -0.826152
-0.000400   -0.164043   -91.950313
1.00000   -1.414111   -105.965410   -0.826152
-0.000400   -0.628728   -73.607128

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   12.282693   57.534449    1.334024
 0.003053    1.482288  164.688348
0.57745   12.282693   57.534449    1.334024
 0.003053    0.923281  145.482310
0.71830   12.282693   57.534449    1.334024
 0.003053    0.365110  133.935761
0.85915   12.282693   57.534449    1.334024
 0.003053    0.153287  134.982142
1.00000   12.282693   57.534449    1.334024
 0.003053    0.570478  141.900328

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -6.216427   -114.681819   -0.994226
-0.002964   -1.104416   -169.128896
0.57745   -6.216427   -114.681819   -0.994226
-0.002964   -0.686680   -127.557133
0.71830   -6.216427   -114.681819   -0.994226
-0.002964   -0.273884   -95.603981
0.85915   -6.216427   -114.681819   -0.994226
-0.002964   -0.206691   -78.807460
1.00000   -6.216427   -114.681819   -0.994226
-0.002964   -0.761625   -63.018139

COMB DB ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   12.517827   113.726974    0.819684
 0.006928    0.913636  213.268599
0.57745   12.517827   113.726974    0.819684
 0.006928    0.569870  172.847018
0.71830   12.517827   113.726974    0.819684
 0.006928    0.227727  147.755789
0.85915   12.517827   113.726974    0.819684
 0.006928    0.111435  135.733252
1.00000   12.517827   113.726974    0.819684
 0.006928    0.388792  144.698278

COMB DB ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -14.405101   -136.574694   -0.676456
-0.007207   -0.753166   -175.332666
0.57745   -14.405101   -136.574694   -0.676456
-0.007207   -0.469464   -132.607889
0.71830   -14.405101   -136.574694   -0.676456
-0.007207   -0.186436   -111.476023
0.85915   -14.405101   -136.574694   -0.676456
-0.007207   -0.123820   -90.548196
1.00000   -14.405101   -136.574694   -0.676456
-0.007207   -0.461504   -70.842205
Program  SAP2000  Nonlinear  Version  7.42
                  File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                  >
                                   2786

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   12.282693   113.848050    1.334024
 0.006799    1.482288  222.480582
0.57745   12.282693   113.848050    1.334024
 0.006799    0.923281  185.179745
0.71830   12.282693   113.848050    1.334024
 0.006799    0.365110  162.464598
0.85915   12.282693   113.848050    1.334024
 0.006799    0.204131  154.558690
1.00000   12.282693   113.848050    1.334024
 0.006799    0.734201  155.295250

COMB DL ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -14.361222   -122.822584   -1.266809
-0.007086   -1.402236   -190.514617
0.57745   -14.361222   -122.822584   -1.266809
-0.007086   -0.872740   -156.088626
0.71830   -14.361222   -122.822584   -1.266809
-0.007086   -0.344737   -130.446101
0.85915   -14.361222   -122.822584   -1.266809
-0.007086   -0.206691   -105.862239
1.00000   -14.361222   -122.822584   -1.266809
-0.007086   -0.761625   -82.494782

COMB CAR ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   12.517827   113.848050    1.334024
 0.006928    1.482288  222.480582
0.57745   12.517827   113.848050    1.334024
 0.006928    0.923281  185.179745
0.71830   12.517827   113.848050    1.334024
 0.006928    0.365110  162.464598
0.85915   12.517827   113.848050    1.334024
 0.006928    0.204131  154.558690
1.00000   12.517827   113.848050    1.334024
 0.006928    0.734201  155.295250

COMB CAR ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -14.405101   -136.574694   -1.266809
-0.007207   -1.402236   -190.514617
0.57745   -14.405101   -136.574694   -1.266809
-0.007207   -0.872740   -156.088626
0.71830   -14.405101   -136.574694   -1.266809
-0.007207   -0.344737   -130.446101
0.85915   -14.405101   -136.574694   -1.266809
-0.007207   -0.206691   -105.862239
1.00000   -14.405101   -136.574694   -1.266809
-0.007207   -0.761625   -82.494782

COMB DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43660   12.517827   113.848050    1.334024
 0.006928    1.482288  222.480582
0.57745   12.517827   113.848050    1.334024
 0.006928    0.923281  185.179745
0.71830   12.517827   113.848050    1.334024
 0.006928    0.365110  162.464598
0.85915   12.517827   113.848050    1.334024
 0.006928    0.204131  154.558690
1.00000   12.517827   113.848050    1.334024
 0.006928    0.734201  155.295250

COMB DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43660   -14.405101   -136.574694   -1.266809
-0.007207   -1.402236   -190.514617
0.57745   -14.405101   -136.574694   -1.266809
-0.007207   -0.872740   -156.088626
0.71830   -14.405101   -136.574694   -1.266809
-0.007207   -0.344737   -130.446101
0.85915   -14.405101   -136.574694   -1.266809
-0.007207   -0.206691   -105.862239
1.00000   -14.405101   -136.574694   -1.266809
-0.007207   -0.761625   -82.494782
Program  SAP2000  Nonlinear  Version  7.42
                  File:하행S11-S1503.OUT

                        Page
<                  MOVING          LOAD                  >
                                   2787

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      257 ================== LENGTH
=    2.976603

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.413089   80.423765    0.433131
 0.000466    0.245783    2.856997
0.14082    0.413089   80.423765    0.433131
 0.000466    0.064163    3.439967
0.28163    0.413089   80.423765    0.433131
 0.000466    0.116463    4.034440
0.42245    0.413089   80.423765    0.433131
 0.000466    0.296497    4.663502
0.56326    0.413089   80.423765    0.433131
 0.000466    0.476542    5.299215

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -11.385918   -3.532337   -0.429545
-0.000680   -0.243642   -22.997931
0.14082   -11.385918   -3.532337   -0.429545
-0.000680   -0.063543   -56.414401
```

0.28163 -11.385918 -3.532337 -0.429545
-0.000680 -0.117316 -90.039098
0.42245 -11.385918 -3.532337 -0.429545
-0.000680 -0.298863 -123.668861
0.56326 -11.385918 -3.532337 -0.429545
-0.000680 -0.480407 -157.326554

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.698710	179.854475	0.680933
0.006802	0.413348	126.949516	
0.14082	2.698710	179.854475	0.680933
0.006802	0.128575	101.338338	
0.28163	2.698710	179.854475	0.680933
0.006802	0.154590	75.888065	
0.42245	2.698710	179.854475	0.680933
0.006802	0.394493	68.606043	
0.56326	2.698710	179.854475	0.680933
0.006802	0.634407	73.786541	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.598718	-23.731622	-0.572353
-0.007079	-0.332813	-9.505976	
0.14082	-18.598718	-23.731622	-0.572353
-0.007079	-0.107220	-51.831586	
0.28163	-18.598718	-23.731622	-0.572353
-0.007079	-0.182026	-94.483785	
0.42245	-18.598718	-23.731622	-0.572353
-0.007079	-0.446534	-138.920754	
0.56326	-18.598718	-23.731622	-0.572353
-0.007079	-0.728953	-205.223504	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.657446	147.075421	0.799865
0.004762	0.472182	126.547196	
0.14082	6.657446	147.075421	0.799865
0.004762	0.137388	134.718806	
0.28163	6.657446	147.075421	0.799865
0.004762	0.164121	140.890917	
0.42245	6.657446	147.075421	0.799865
0.004762	0.416425	159.411154	
0.56326	6.657446	147.075421	0.799865
0.004762	0.668686	186.517621	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.010708	-72.716074	-0.601815
-0.005147	-0.345544	-7.876343	
0.14082	-16.010708	-72.716074	-0.601815
-0.005147	-0.107967	-46.902292	
0.28163	-16.010708	-72.716074	-0.601815
-0.005147	-0.215142	-86.101530	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2788

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42245	-16.010708	-72.716074	-0.601815
-0.005147	-0.536175	-126.468506	
0.56326	-16.010708	-72.716074	-0.601815
-0.005147	-0.869391	-181.682259	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.695714	123.407184	0.857695
0.004298	0.501082	108.250482	
0.14082	8.695714	123.407184	0.857695
0.004298	0.141928	113.429285	
0.28163	8.695714	123.407184	0.857695
0.004298	0.187284	120.942604	
0.42245	8.695714	123.407184	0.857695
0.004298	0.474559	139.977485	
0.56326	8.695714	123.407184	0.857695
0.004298	0.761767	169.586781	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.339774	-80.812371	-0.685245
-0.004525	-0.484527	-31.484527	
0.14082	-14.339774	-80.812371	-0.685245
-0.004525	-0.112141	-56.266395	
0.28163	-14.339774	-80.812371	-0.685245
-0.004525	-0.231839	-82.202294	
0.42245	-14.339774	-80.812371	-0.685245
-0.004525	-0.579561	-110.005613	
0.56326	-14.339774	-80.812371	-0.685245
-0.004525	-0.937377	-152.331508	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.008172	65.814112	0.266735
0.005208	0.173938	138.186795	
0.14082	4.008172	65.814112	0.266735
0.005208	0.062787	129.746626	
0.28163	4.008172	65.814112	0.266735
0.005208	0.028477	121.349898	
0.42245	4.008172	65.814112	0.266735
0.005208	0.077467	128.137750	
0.56326	4.008172	65.814112	0.266735
0.005208	0.118622	145.108401	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.440363	-48.714380	-0.107461
-0.005245	-0.067913	-1.064078	
0.14082	-4.440363	-48.714380	-0.107461
-0.005245	-0.034897	-0.709945	
0.28163	-4.440363	-48.714380	-0.107461
-0.005245	-0.070264	-0.992571	
0.42245	-4.440363	-48.714380	-0.107461
-0.005245	-0.164540	-1.791684	
0.56326	-4.440363	-48.714380	-0.107461
-0.005245	-0.273834	-21.432233	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.527092	61.197478	0.473612
0.005034	0.289194	144.939415	
0.14082	8.527092	61.197478	0.473612
0.005034	0.091283	151.392494	
0.28163	8.527092	61.197478	0.473612
0.005034	0.069671	161.037701	
0.42245	8.527092	61.197478	0.473612
0.005034	0.175050	185.792217	
0.56326	8.527092	61.197478	0.473612
0.005034	0.280362	220.266270	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.136118	-89.898689	-0.251293
-0.005192	-0.146902	-9.939476	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2789

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14082	-5.136118	-89.898689	-0.251293
-0.005192	-0.052647	-5.631807	
0.28163	-5.136118	-89.898689	-0.251293
-0.005192	-0.127056	-2.828686	
0.42245	-5.136118	-89.898689	-0.251293
-0.005192	-0.309285	-2.604697	
0.56326	-5.136118	-89.898689	-0.251293
-0.005192	-0.505472	-20.856142	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.231482	124.390601	0.712957
0.004031	0.419148	140.721871	
0.14082	8.231482	124.390601	0.712957
0.004031	0.120698	130.770809	
0.28163	8.231482	124.390601	0.712957
0.004031	0.141556	142.912870	
0.42245	8.231482	124.390601	0.712957
0.004031	0.358532	167.277633	
0.56326	8.231482	124.390601	0.712957
0.004031	0.575443	199.088596	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.731172	-82.643293	-0.517547
-0.004340	-0.296490	-10.929552	
0.14082	-12.731172	-82.643293	-0.517547
-0.004340	-0.087338	-14.266059	
0.28163	-12.731172	-82.643293	-0.517547
-0.004340	-0.192124	-45.609980	
0.42245	-12.731172	-82.643293	-0.517547
-0.004340	-0.479447	-79.011509	
0.56326	-12.731172	-82.643293	-0.517547
-0.004340	-0.776637	-125.782005	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.096551	105.084546	0.807228
0.003672	0.469600	119.240540	
0.14082	10.096551	105.084546	0.807228
0.003672	0.131574	110.375068	
0.28163	10.096551	105.084546	0.807228
0.003672	0.173653	119.421016	
0.42245	10.096551	105.084546	0.807228
0.003672	0.439691	138.632192	
0.56326	10.096551	105.084546	0.807228
0.003672	0.705662	167.439166	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.806415	-85.531576	-0.634581
-0.003815	-0.361806	-41.090984	
0.14082	-10.806415	-85.531576	-0.634581
-0.003815	-0.102288	-36.995098	
0.28163	-10.806415	-85.531576	-0.634581
-0.003815	-0.218478	-56.006136	
0.42245	-10.806415	-85.531576	-0.634581
-0.003815	-0.547211	-76.538676	
0.56326	-10.806415	-85.531576	-0.634581
-0.003815	-0.884181	-108.166837	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.258553	2.326269	0.339430
0.000504	0.191666	3.519223	
0.14082	5.258553	2.326269	0.339430
0.000504	0.049325	2.859299	
0.28163	5.258553	2.326269	0.339430
0.000504	0.088691	2.338166	
0.42245	5.258553	2.326269	0.339430
0.000504	0.224058	1.903805	
0.56326	5.258553	2.326269	0.339430
0.000504	0.359599	1.848569	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2790

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.164109	-24.684524	-0.323373
-0.000249	-0.182576	-53.624315	
0.14082	-0.164109	-24.684524	-0.323373
-0.000249	-0.046948	-43.605667	
0.28163	-0.164109	-24.684524	-0.323373
-0.000249	-0.092888	-33.660230	
0.42245	-0.164109	-24.684524	-0.323373
-0.000249	-0.235154	-23.805172	
0.56326	-0.164109	-24.684524	-0.323373
-0.000249	-0.377424	-13.943830	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.110762	5.435338	0.539802
0.001075	0.305398	10.139691	
0.14082	9.110762	5.435338	0.539802
0.001075	0.079057	12.712197	
0.28163	9.110762	5.435338	0.539802
0.001075	0.140357	19.760216	
0.42245	9.110762	5.435338	0.539802
0.001075	0.352721	28.690088	
0.56326	9.110762	5.435338	0.539802
0.001075	0.565833	38.772572	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.812133	-53.591364	-0.508426
-0.000802	-0.286831	-70.881103	
0.14082	-1.812133	-53.591364	-0.508426
-0.000802	-0.074049	-54.011240	
0.28163	-1.812133	-53.591364	-0.508426
-0.000802	-0.147880	-39.025860	
0.42245	-1.812133	-53.591364	-0.508426
-0.000802	-0.373480	-25.649900	
0.56326	-1.812133	-53.591364	-0.508426
-0.000802	-0.599646	-14.790128	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.166253	7.305456	0.687247
0.000949	0.389932	66.917894	
0.14082	12.166253	7.305456	0.687247
0.000949	0.101860	93.485604	
0.28163	12.166253	7.305456	0.687247
0.000949	0.141758	122.734437	
0.42245	12.166253	7.305456	0.687247
0.000949	0.357062	153.821733	
0.56326	12.166253	7.305456	0.687247
0.000949	0.572291	186.227994	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.326924	-104.409371	-0.513541
-0.000853	-0.289114	-62.873875	
0.14082	-1.326924	-104.409371	-0.513541
-0.000853	-0.074377	-48.623415	
0.28163	-1.326924	-104.409371	-0.513541
-0.000853	-0.187478	-35.546255	
0.42245	-1.326924	-104.409371	-0.513541
-0.000853	-0.474507	-23.596357	
0.56326	-1.326924	-104.409371	-0.513541
-0.000853	-0.762418	-14.004212	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.562902	92.831516	0.793085
0.004175	0.463662	132.303810	
0.14082	11.562902	92.831516	0.793085
0.004175	0.131563	120.790557	
0.28163	11.562902	92.831516	0.793085
0.004175	0.167624	124.882230	
0.42245	11.562902	92.831516	0.793085
0.004175	0.424182	142.148136	
0.56326	11.562902	92.831516	0.793085
0.004175	0.680677	167.202765	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2791

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.451711	-89.263527	-0.611975
-0.004209	-0.349524	-53.558828	
0.14082	-8.451711	-89.263527	-0.611975
-0.004209	-0.100656	-41.291208	
0.28163	-8.451711	-89.263527	-0.611975
-0.004209	-0.214626	-45.721564	
0.42245	-8.451711	-89.263527	-0.611975
-0.004209	-0.535661	-56.747370	
0.56326	-8.451711	-89.263527	-0.611975
-0.004209	-0.866452	-80.697558	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.526792	81.841516	0.637167
0.000378	0.368287	3.623423	
0.14082	0.526792	81.841516	0.637167
0.000378	0.107309	4.098377	
0.28163	0.526792	81.841516	0.637167
0.000378	0.230879	4.563419	
0.42245	0.526792	81.841516	0.637167
0.000378	0.569452	5.065924	
0.56326	0.526792	81.841516	0.637167
0.000378	0.908212	5.829575	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.620733	-3.895282	-0.808407
-0.000586	-0.449052	-30.309905	
0.14082	-11.620733	-3.895282	-0.808407
-0.000586	-0.116257	-63.667992	
0.28163	-11.620733	-3.895282	-0.808407
-0.000586	-0.167487	-97.028456	
0.42245	-11.620733	-3.895282	-0.808407
-0.000586	-0.434360	-130.353947	
0.56326	-11.620733	-3.895282	-0.808407
-0.000586	-0.701398	-163.953068	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.952872	177.231106	1.114990
0.006723	0.668322	138.792783	
0.14082	2.952872	177.231106	1.114990
0.006723	0.208321	111.771919	
0.28163	2.952872	177.231106	1.114990
0.006723	0.291871	84.886361	
0.42245	2.952872	177.231106	1.114990
0.006723	0.725053	74.504565	
0.56326	2.952872	177.231106	1.114990
0.006723	1.160418	78.706353	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.277644	-21.382158	-1.043971
-0.007010	-0.615249	-17.555227	
0.14082	-18.277644	-21.382158	-1.043971
-0.007010	-0.184749	-57.909005	
0.28163	-18.277644	-21.382158	-1.043971
-0.007010	-0.295583	-98.432837	
0.42245	-18.277644	-21.382158	-1.043971
-0.007010	-0.906417	-140.209699	
0.56326	-18.277644	-21.382158	-1.043971
-0.007010	-1.203436	-210.715913	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.350786	146.705286	1.231743
0.004994	0.725182	148.612743	
0.14082	6.350786	146.705286	1.231743
0.004994	0.214720	150.175583	
0.28163	6.350786	146.705286	1.231743
0.004994	0.306365	151.767208	
0.42245	6.350786	146.705286	1.231743
0.004994	0.763109	165.102738	
0.56326	6.350786	146.705286	1.231743
0.004994	1.222074	188.950183	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2792

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.036136	-65.446716	-1.098761
-0.005268	-0.638189	-15.318425	
0.14082	-16.036136	-65.446716	-1.098761
-0.005268	-0.183709	-52.382454	
0.28163	-16.036136	-65.446716	-1.098761
-0.005268	-0.329692	-89.507138	
0.42245	-16.036136	-65.446716	-1.098761
-0.005268	-0.833267	-128.031596	
0.56326	-16.036136	-65.446716	-1.098761
-0.005268	-1.342787	-186.053946	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.181975	123.284501	1.333186
0.004415	0.775435	125.226662	
0.14082	8.181975	123.284501	1.333186
0.004415	0.221582	126.593587	
0.28163	8.181975	123.284501	1.333186
0.004415	0.343638	130.350928	
0.42245	8.181975	123.284501	1.333186
0.004415	0.854715	144.885257	
0.56326	8.181975	123.284501	1.333186
0.004415	1.368566	172.671479	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.293584	-77.901920	-1.228973
-0.004573	-0.706528	-39.812020	
0.14082	-14.293584	-77.901920	-1.228973
-0.004573	-0.197018	-61.821674	
0.28163	-14.293584	-77.901920	-1.228973
-0.004573	-0.360909	-85.293334	
0.42245	-14.293584	-77.901920	-1.228973
-0.004573	-0.909012	-110.631441	
0.56326	-14.293584	-77.901920	-1.228973
-0.004573	-1.462290	-156.072349	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.071806	55.484126	0.451078
0.004392	0.272688	143.484938	
0.14082	4.071806	55.484126	0.451078
0.004392	0.085163	137.671928	
0.28163	4.071806	55.484126	0.451078
0.004392	0.045674	131.937521	
0.42245	4.071806	55.484126	0.451078
0.004392	0.117140	137.757040	
0.56326	4.071806	55.484126	0.451078
0.004392	0.189667	153.520427	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.843076	-44.791792	-0.176607
-0.004435	-0.122838	-1.282233	
0.14082	-3.843076	-44.791792	-0.176607
-0.004435	-0.050017	-0.873857	
0.28163	-3.843076	-44.791792	-0.176607
-0.004435	-0.124010	-0.603979	
0.42245	-3.843076	-44.791792	-0.176607
-0.004435	-0.300994	-1.727185	
0.56326	-3.843076	-44.791792	-0.176607
-0.004435	-0.483869	-21.812662	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.755437	52.804644	0.721539
0.004338	0.425539	155.281430	
0.14082	7.755437	52.804644	0.721539
0.004338	0.123455	162.481112	
0.28163	7.755437	52.804644	0.721539
0.004338	0.125040	173.259026	
0.42245	7.755437	52.804644	0.721539
0.004338	0.308942	195.654005	
0.56326	7.755437	52.804644	0.721539
0.004338	0.496891	227.839430	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2793

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.696316	-83.586603	-0.452195
-0.004506	-0.276031	-9.598736	
0.14082	-4.696316	-83.586603	-0.452195
-0.004506	-0.087462	-5.209384	
0.28163	-4.696316	-83.586603	-0.452195
-0.004506	-0.199754	-3.037502	
0.42245	-4.696316	-83.586603	-0.452195
-0.004506	-0.489577	-2.658898	
0.56326	-4.696316	-83.586603	-0.452195
-0.004506	-0.785559	-21.769929	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.824278	115.036007	1.137707
0.003208	0.661066	153.598556	
0.14082	7.824278	115.036007	1.137707
0.003208	0.185907	140.308730	
0.28163	7.824278	115.036007	1.137707
0.003208	0.251900	152.999002	
0.42245	7.824278	115.036007	1.137707
0.003208	0.627895	175.810817	
0.56326	7.824278	115.036007	1.137707
0.003208	1.007224	205.706182	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.831937	-77.302860	-0.908051
-0.003512	-0.526556	-11.426951	
0.14082	-11.831937	-77.302860	-0.908051
-0.003512	-0.148727	-12.607407	
0.28163	-11.831937	-77.302860	-0.908051
-0.003512	-0.307910	-41.291613	
0.42245	-11.831937	-77.302860	-0.908051
-0.003512	-0.776204	-73.593585	
0.56326	-11.831937	-77.302860	-0.908051
-0.003512	-1.248704	-119.004552	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.796563	97.650924	1.305416
0.002941	0.749957	130.683919	
0.14082	9.796563	97.650924	1.305416
0.002941	0.204388	118.854975	
0.28163	9.796563	97.650924	1.305416
0.002941	0.295566	127.953835	
0.42245	9.796563	97.650924	1.305416
0.002941	0.740274	145.515880	
0.56326	9.796563	97.650924	1.305416
0.002941	1.187640	172.894388	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.160324	-85.828911	-1.069756
-0.003102	-0.614720	-47.374967	
0.14082	-10.160324	-85.828911	-1.069756
-0.003102	-0.166879	-39.495147	
0.28163	-10.160324	-85.828911	-1.069756
-0.003102	-0.357221	-54.086900	
0.42245	-10.160324	-85.828911	-1.069756
-0.003102	-0.896983	-71.382142	
0.56326	-10.160324	-85.828911	-1.069756
-0.003102	-1.440512	-102.370799	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.678381	2.834166	0.593875
0.000416	0.329439	4.431019	
0.14082	5.678381	2.834166	0.593875
0.000416	0.081352	3.606954	
0.28163	5.678381	2.834166	0.593875
0.000416	0.130404	2.880275	
0.42245	5.678381	2.834166	0.593875
0.000416	0.328632	2.226830	
0.56326	5.678381	2.834166	0.593875
0.000416	0.526810	2.053639	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2794

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.215094	-31.678054	-0.472665
-0.000216	-0.265742	-64.878830	
0.14082	-0.215094	-31.678054	-0.472665
-0.000216	-0.068004	-51.910253	
0.28163	-0.215094	-31.678054	-0.472665
-0.000216	-0.169162	-39.085113	
0.42245	-0.215094	-31.678054	-0.472665

```
-0.000216   -0.418029   -26.289308
0.56326   -0.215094   -31.678054   -0.472665
-0.000216   -0.666865   -13.875041

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000    9.042457    5.261046    0.918175
0.000859    0.511900   10.918959
0.14082    9.042457    5.261046    0.918175
0.000859    0.127738   13.902830
0.28163    9.042457    5.261046    0.918175
0.000859    0.233298   22.141063
0.42245    9.042457    5.261046    0.918175
0.000859    0.577744   31.726281
0.56326    9.042457    5.261046    0.918175
0.000859    0.924820   42.632488

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -1.800479   -63.282529   -0.828604
-0.000631   -0.464707   -82.542227
0.14082   -1.800479   -63.282529   -0.828604
-0.000631   -0.117762   -61.935189
0.28163   -1.800479   -63.282529   -0.828604
-0.000631   -0.259062   -44.423302
0.42245   -1.800479   -63.282529   -0.828604
-0.000631   -0.643346   -27.741962
0.56326   -1.800479   -63.282529   -0.828604
-0.000631   -1.027939   -14.061749

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   11.821634    4.227705    1.073624
0.000550    0.599001   78.007255
0.14082   11.821634    4.227705    1.073624
0.000550    0.149574  103.040159
0.28163   11.821634    4.227705    1.073624
0.000550    0.226031  131.770165
0.42245   11.821634    4.227705    1.073624
0.000550    0.564651  161.307253
0.56326   11.821634    4.227705    1.073624
0.000550    0.905236  191.699783

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -1.387805  -106.793068   -0.812937
-0.000474   -0.457545   -73.642730
0.14082   -1.387805  -106.793068   -0.812937
-0.000474   -0.117311   -55.856254
0.28163   -1.387805  -106.793068   -0.812937
-0.000474   -0.303510   -40.317859
0.42245   -1.387805  -106.793068   -0.812937
-0.000474   -0.752915   -25.443728
0.56326   -1.387805  -106.793068   -0.812937
-0.000474   -1.202567   -12.450282

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   11.378376   82.360783    1.323414
0.003147    0.756666  141.865620
0.14082   11.378376   82.360783    1.323414
0.003147    0.202643  131.256369
0.28163   11.378376   82.360783    1.323414
0.003147    0.273653  135.165587
0.42245   11.378376   82.360783    1.323414
0.003147    0.686371  151.558316
0.56326   11.378376   82.360783    1.323414
0.003147    1.101769  175.668270
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2795

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -7.726750   -91.760324   -0.993758
-0.003197   -0.573935   -63.041774
0.14082   -7.726750   -91.760324   -0.993758
-0.003197   -0.158249   -47.741477
0.28163   -7.726750   -91.760324   -0.993758
-0.003197   -0.366380   -47.131412
0.42245   -7.726750   -91.760324   -0.993758
-0.003197   -0.574511   -53.384415
0.56326   -7.726750   -91.760324   -0.993758
-0.003197   -1.464137   -73.770573

COMB       DB ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   12.166253   179.854475    0.857695
0.006802    0.501082   144.939415
0.14082   12.166253   179.854475    0.857695
0.006802    0.141928   151.392494
0.28163   12.166253   179.854475    0.857695
0.006802    0.187284   161.037701
0.42245   12.166253   179.854475    0.857695
0.006802    0.474559   185.792217
0.56326   12.166253   179.854475    0.857695
0.006802    0.761767   220.266270

COMB       DB ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -18.598718   -104.409371   -0.685245
-0.007079   -0.391428   -70.881103
0.14082   -18.598718   -104.409371   -0.685245
-0.007079   -0.112141   -56.414401
0.28163   -18.598718   -104.409371   -0.685245
-0.007079   -0.231839   -94.483785
0.42245   -18.598718   -104.409371   -0.685245
-0.007079   -0.579561   -138.920754
0.56326   -18.598718   -104.409371   -0.685245
-0.007079   -0.937377   -205.223504

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   11.821634   177.231106    1.333186
0.006723    0.775435   155.281430
0.14082   11.821634   177.231106    1.333186
0.006723    0.221582   162.481112
0.28163   11.821634   177.231106    1.333186
0.006723    0.343638   173.259026
0.42245   11.821634   177.231106    1.333186
0.006723    0.854715   195.659405
0.56326   11.821634   177.231106    1.333186
0.006723    1.368566   227.839430

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -18.277644   -106.793068   -1.228973
-0.007010   -0.706528   -82.542227
0.14082   -18.277644   -106.793068   -1.228973
-0.007010   -0.197018   -63.667992
0.28163   -18.277644   -106.793068   -1.228973
-0.007010   -0.366380   -98.432837
0.42245   -18.277644   -106.793068   -1.228973
-0.007010   -0.913392   -140.920669
0.56326   -18.277644   -106.793068   -1.228973
-0.007010   -1.464137   -210.715913

COMB       CAR ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   12.166253   179.854475    1.333186
0.006802    0.775435   155.281430
0.14082   12.166253   179.854475    1.333186
0.006802    0.221582   162.481112
0.28163   12.166253   179.854475    1.333186
0.006802    0.343638   173.259026
0.42245   12.166253   179.854475    1.333186
0.006802    0.854715   195.659405
0.56326   12.166253   179.854475    1.333186
0.006802    1.368566   227.839430
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2796

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB       CAR ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -18.598718   -106.793068   -1.228973
-0.007079   -0.706528   -82.542227
0.14082   -18.598718   -106.793068   -1.228973
-0.007079   -0.197018   -63.667992
0.28163   -18.598718   -106.793068   -1.228973
-0.007079   -0.366380   -98.432837
0.42245   -18.598718   -106.793068   -1.228973
-0.007079   -0.913392   -140.920669
0.56326   -18.598718   -106.793068   -1.228973
-0.007079   -1.464137   -210.715913

COMB       DESIGN ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.00000   12.166253   179.854475    1.333186
0.006802    0.775435   155.281430
0.14082   12.166253   179.854475    1.333186
0.006802    0.221582   162.481112
0.28163   12.166253   179.854475    1.333186
0.006802    0.343638   173.259026
0.42245   12.166253   179.854475    1.333186
0.006802    0.854715   195.659405
0.56326   12.166253   179.854475    1.333186
0.006802    1.368566   227.839430

COMB       DESIGN ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.00000   -18.598718   -106.793068   -1.228973
-0.007079   -0.706528   -82.542227
0.14082   -18.598718   -106.793068   -1.228973
-0.007079   -0.197018   -63.667992
0.28163   -18.598718   -106.793068   -1.228973
-0.007079   -0.366380   -98.432837
0.42245   -18.598718   -106.793068   -1.228973
-0.007079   -0.913392   -140.920669
0.56326   -18.598718   -106.793068   -1.228973
-0.007079   -1.464137   -210.715913

ELEM      258 ================== LENGTH
=    2.977041

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668    0.516776   81.311121    0.417189
0.000243    0.468040   113.572227
0.57751    0.516776   81.311121    0.417189
0.000243    0.293301   79.533800
0.71834    0.516776   81.311121    0.417189
0.000243    0.118574   45.574091
0.85917    0.516776   81.311121    0.417189
0.000243    0.055222   11.879350
1.00000    0.516776   81.311121    0.417189
0.000243    0.226790    2.851293

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -13.165621   -2.709920   -0.409070
-0.001140   -0.459238   -4.335037
0.57751   -13.165621   -2.709920   -0.409070
-0.001140   -0.287731   -3.369633
0.71834   -13.165621   -2.709920   -0.409070
-0.001140   -0.116231   -2.735848
0.85917   -13.165621   -2.709920   -0.409070
-0.001140   -0.056800   -3.175740
1.00000   -13.165621   -2.709920   -0.409070
-0.001140   -0.231786   -23.956674

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668    5.143465   114.117813    0.738919
0.006458    0.805186   212.866220
0.57751    5.143465   114.117813    0.738919
0.006458    0.495388   168.392632
0.71834    5.143465   114.117813    0.738919
0.006458    0.208613   137.237873
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2797

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
          T          M2          M3
0.85917    5.143465   114.117813    0.738919
0.006458    0.092108   123.925176
1.00000    5.143465   114.117813    0.738919
0.006458    0.302991   125.174042

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -16.396183   -84.242159   -0.547648
-0.007636   -0.615422   -29.039185
0.57751   -16.396183   -84.242159   -0.547648
-0.007636   -0.385806   -7.208969
0.71834   -16.396183   -84.242159   -0.547648
-0.007636   -0.156328   -4.224499
0.85917   -16.396183   -84.242159   -0.547648
-0.007636   -0.135087   -3.539027
1.00000   -16.396183   -84.242159   -0.547648
-0.007636   -0.440739   -10.792949

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668    8.440680   102.618123    0.958654
0.004850    1.060268   201.648757
0.57751    8.440680   102.618123    0.958654
0.004850    0.658365   162.144339
0.71834    8.440680   102.618123    0.958654
0.004850    0.272132   132.461585
0.85917    8.440680   102.618123    0.958654
0.004850    0.091973   117.257834
1.00000    8.440680   102.618123    0.958654
0.004850    0.326767   125.973724

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -15.035311   -114.459247   -0.592238
-0.005703   -0.666329   -75.270969
0.57751   -15.035311   -114.459247   -0.592238
-0.005703   -0.418011   -35.638289
0.71834   -15.035311   -114.459247   -0.592238
-0.005703   -0.169655   -7.943767
0.85917   -15.035311   -114.459247   -0.592238
-0.005703   -0.149462   -3.490691
1.00000   -15.035311   -114.459247   -0.592238
-0.005703   -0.548986   -8.846834

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668   10.171998   86.080013    1.047737
0.004366    1.160906  169.697185
0.57751   10.171998   86.080013    1.047737
0.004366    0.721649  136.537221
0.71834   10.171998   86.080013    1.047737
0.004366    0.295410  111.526501
0.85917   10.171998   86.080013    1.047737
0.004366    0.106824   98.580820
1.00000   10.171998   86.080013    1.047737
0.004366    0.379299  105.528396

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -13.812768   -115.235632   -0.676205
-0.004736   -0.754639   -118.053246
0.57751   -13.812768   -115.235632   -0.676205
-0.004736   -0.471251   -76.957331
0.71834   -13.812768   -115.235632   -0.676205
-0.004736   -0.190352   -46.131532
0.85917   -13.812768   -115.235632   -0.676205
-0.004736   -0.160243   -34.976637
1.00000   -13.812768   -115.235632   -0.676205
-0.004736   -0.597489   -31.541144

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668    6.122747    9.942550    0.387467
0.005444    0.414739   55.671115
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2798

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
          T          M2          M3
0.57751    6.122747    9.942550    0.387467
0.005444    0.252298   55.324177
0.71834    6.122747    9.942550    0.387467
0.005444    0.109115   66.615374
0.85917    6.122747    9.942550    0.387467
0.005444    0.030702   95.476222
1.00000    6.122747    9.942550    0.387467
0.005444    0.065293  135.971863

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -1.139675  -100.550964   -0.119921
-0.005531   -0.135771   -41.119155
0.57751   -1.139675  -100.550964   -0.119921
-0.005531   -0.085434   -10.308138
0.71834   -1.139675  -100.550964   -0.119921
-0.005531   -0.035186   -1.194598
0.85917   -1.139675  -100.550964   -0.119921
-0.005531   -0.079102   -0.983786
1.00000   -1.139675  -100.550964   -0.119921
-0.005531   -0.236787   -0.770351

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668   10.397642    9.028717    0.705337
0.005521    0.772891   57.239759
0.57751   10.397642    9.028717    0.705337
0.005521    0.477196   57.434024
0.71834   10.397642    9.028717    0.705337
0.005521    0.199467   68.818834
0.85917   10.397642    9.028717    0.705337
0.005521    0.057436   96.712673
1.00000   10.397642    9.028717    0.705337
0.005521    0.156444  141.815978

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -2.394574   -138.753045   -0.272715
-0.005251   -0.300802   -104.409903
0.57751   -2.394574   -138.753045   -0.272715
-0.005251   -0.186624   -56.071343
0.71834   -2.394574   -138.753045   -0.272715
-0.005251   -0.075860   -21.842869
0.85917   -2.394574   -138.753045   -0.272715
-0.005251   -0.116752   -19.976775
1.00000   -2.394574   -138.753045   -0.272715
-0.005251   -0.411772   -9.515857

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668    9.907853   88.198350    0.900444
0.004047    0.997959  206.030260
0.57751    9.907853   88.198350    0.900444
0.004047    0.620461  172.246067
0.71834    9.907853   88.198350    0.900444
0.004047    0.255673  146.647600
0.85917    9.907853   88.198350    0.900444
0.004047    0.085944  133.628175
1.00000    9.907853   88.198350    0.900444
0.004047    0.294338  136.829293

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -11.772487   -116.699273   -0.522770
-0.004483   -0.582257   -94.543260
0.57751   -11.772487   -116.699273   -0.522770
-0.004483   -0.363225   -52.639307
0.71834   -11.772487   -116.699273   -0.522770
-0.004483   -0.147300   -21.212380
0.85917   -11.772487   -116.699273   -0.522770
-0.004483   -0.137899   -14.031218
1.00000   -11.772487   -116.699273   -0.522770
-0.004483   -0.513423   -9.790723
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2799

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668   11.659690   74.137005    1.016293
0.003716    1.126449  173.780066
0.57751   11.659690   74.137005    1.016293
0.003716    0.700380  145.371235
0.71834   11.659690   74.137005    1.016293
0.003716    0.284969  123.812241
0.85917   11.659690   74.137005    1.016293
0.003716    0.097451  112.744359
1.00000   11.659690   74.137005    1.016293
0.003716    0.351011  115.197652

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -10.046581   -113.683690   -0.626450
-0.003752   -0.699479   -136.362501
0.57751   -10.046581   -113.683690   -0.626450
-0.003752   -0.436927   -94.642968
0.71834   -10.046581   -113.683690   -0.626450
-0.003752   -0.176376   -61.550307
0.85917   -10.046581   -113.683690   -0.626450
-0.003752   -0.154527   -48.569588
1.00000   -10.046581   -113.683690   -0.626450
-0.003752   -0.579007   -38.352928

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668    5.702905    1.170730    0.426312
0.000514    0.471506    3.837542
0.57751    5.702905    1.170730    0.426312
0.000514    0.292791    3.370705
0.71834    5.702905    1.170730    0.426312
0.000514    0.114127    2.921592
0.85917    5.702905    1.170730    0.426312
0.000514    0.043453    2.506857
1.00000    5.702905    1.170730    0.426312
0.000514    0.172497    2.139983

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -0.178251   -23.931644   -0.307708
-1.01E-05   -0.343565   -89.536436
0.57751   -0.178251   -23.931644   -0.307708
-1.01E-05   -0.214556   -79.630626
0.71834   -0.178251   -23.931644   -0.307708
-1.01E-05   -0.085537   -69.756893
0.85917   -0.178251   -23.931644   -0.307708
-1.01E-05   -0.064703   -59.887551
1.00000   -0.178251   -23.931644   -0.307708
-1.01E-05   -0.243499   -50.053953

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668    9.516445    1.898265    0.712823
0.001107    0.791427    6.928498
0.57751    9.516445    1.898265    0.712823
0.001107    0.492577    6.417548
0.71834    9.516445    1.898265    0.712823
0.001107    0.194547    6.421825
0.85917    9.516445    1.898265    0.712823
0.001107    0.083619    7.119863
1.00000    9.516445    1.898265    0.712823
0.001107    0.295769    8.510349

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -2.268746   -54.952470   -0.507373
-0.000237   -0.555117   -150.743471
0.57751   -2.268746   -54.952470   -0.507373
-0.000237   -0.342601   -128.722375
0.71834   -2.268746   -54.952470   -0.507373
-0.000237   -0.134864   -107.726432
0.85917   -2.268746   -54.952470   -0.507373
-0.000237   -0.105535   -86.955739
1.00000   -2.268746   -54.952470   -0.507373
-0.000237   -0.404215   -67.219727
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2800

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668   12.820005    2.774556    0.948274
0.001470    1.056872   30.109621
0.57751   12.820005    2.774556    0.948274
0.001470    0.659326   30.735350
0.71834   12.820005    2.774556    0.948274
0.001470    0.262978   33.178795
0.85917   12.820005    2.774556    0.948274
0.001470    0.077710   40.279977
1.00000   12.820005    2.774556    0.948274
0.001470    0.294615   63.580673

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -1.532573   -107.762185   -0.520453
-0.000631   -0.578111   -175.489857
0.57751   -1.532573   -107.762185   -0.520453
-0.000631   -0.360040   -131.284204
0.71834   -1.532573   -107.762185   -0.520453
-0.000631   -0.144828   -89.865448
0.85917   -1.532573   -107.762185   -0.520453
-0.000631   -0.139592   -68.446580
1.00000   -1.532573   -107.762185   -0.520453
-0.000631   -0.533820   -59.132595

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668   13.414920   55.777565    1.029375
0.004334    1.136967  149.261054
0.57751   13.414920   55.777565    1.029375
0.004334    0.705415  128.769329
0.71834   13.414920   55.777565    1.029375
0.004334    0.286444  116.185945
0.85917   13.414920   55.777565    1.029375
0.004334    0.096963  115.515666
1.00000   13.414920   55.777565    1.029375
0.004334    0.339876  128.023250

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -6.881044   -122.572308   -0.604810
-0.004008   -0.674327   -155.098238
0.57751   -6.881044   -122.572308   -0.604810
-0.004008   -0.420866   -110.696678
0.71834   -6.881044   -122.572308   -0.604810
-0.004008   -0.169767   -76.262909
0.85917   -6.881044   -122.572308   -0.604810
-0.004008   -0.161061   -61.773242
1.00000   -6.881044   -122.572308   -0.604810
-0.004008   -0.590634   -49.966246

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
          T          M2          M3
0.43668    0.968180   80.923026    0.665628
0.000199    0.759437  110.442432
0.57751    0.968180   80.923026    0.665628
0.000199    0.480225   76.824489
0.71834    0.968180   80.923026    0.665628
0.000199    0.201533   43.598334
0.85917    0.968180   80.923026    0.665628
0.000199    0.122721   11.692932
1.00000    0.968180   80.923026    0.665628
0.000199    0.466997    3.544446

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
          T          M2          M3
0.43668   -13.632807   -2.797768   -0.824159
-0.001096   -0.915510   -5.980381
0.57751   -13.632807   -2.797768   -0.824159
-0.001096   -0.570087   -5.098336
0.71834   -13.632807   -2.797768   -0.824159
-0.001096   -0.224932   -4.937200
0.85917   -13.632807   -2.797768   -0.824159
-0.001096   -0.078037   -6.158311
1.00000   -13.632807   -2.797768   -0.824159
-0.001096   -0.356787   -30.176864
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2801
```

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	6.334075	111.893325	1.306979
0.006455	1.463169	214.408546	
0.57751	6.334075	111.893325	1.306979
0.006455	0.388683	173.254849	
0.71834	6.334075	111.893325	1.306979
0.006455	0.377997	144.754891	
0.85917	6.334075	111.893325	1.306979
0.006455	0.176119	132.368888	
1.00000	6.334075	111.893325	1.306979
0.006455	0.603381	135.381054	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.635645	-79.931189	-1.052051
-0.007546	-1.174565	-32.657849	
0.57751	-16.635645	-79.931189	-1.052051
-0.007546	-0.733607	-8.889928	
0.71834	-16.635645	-79.931189	-1.052051
-0.007546	-0.293007	-6.065678	
0.85917	-16.635645	-79.931189	-1.052051
-0.007546	-0.199110	-5.508059	
1.00000	-16.635645	-79.931189	-1.052051
-0.007546	-0.745060	-17.830027	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	9.061903	100.199054	1.601073
0.004955	1.793788	198.538556	
0.57751	9.061903	100.199054	1.601073
0.004955	1.123747	162.477934	
0.71834	9.061903	100.199054	1.601073
0.004955	0.458787	137.289818	
0.85917	9.061903	100.199054	1.601073
0.004955	0.180028	131.447137	
1.00000	9.061903	100.199054	1.601073
0.004955	0.642901	143.652095	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-15.414941	-107.505824	-1.130358
-0.005784	-1.262057	-69.166400	
0.57751	-15.414941	-107.505824	-1.130358
-0.005784	-0.788323	-32.434809	
0.71834	-15.414941	-107.505824	-1.130358
-0.005784	-0.314926	-11.454391	
0.85917	-15.414941	-107.505824	-1.130358
-0.005784	-0.232678	-5.781514	
1.00000	-15.414941	-107.505824	-1.130358
-0.005784	-0.902607	-15.491891	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	10.383184	84.150837	1.765583
0.004413	1.975097	167.419969	
0.57751	10.383184	84.150837	1.765583
0.004413	1.235878	137.112818	
0.71834	10.383184	84.150837	1.765583
0.004413	0.500925	115.858073	
0.85917	10.383184	84.150837	1.765583
0.004413	0.200239	110.630719	
1.00000	10.383184	84.150837	1.765583
0.004413	0.725860	120.403696	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-13.984680	-111.932467	-1.275518
-0.004804	-1.420377	-118.988368	
0.57751	-13.984680	-111.932467	-1.275518
-0.004804	-0.885710	-79.214585	
0.71834	-13.984680	-111.932467	-1.275518
-0.004804	-0.351322	-52.627850	
0.85917	-13.984680	-111.932467	-1.275518
-0.004804	-0.256193	-39.148548	
1.00000	-13.984680	-111.932467	-1.275518
-0.004804	-0.995499	-38.320460	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2802

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	6.284947	10.368195	0.682244
0.004556	0.749955	61.963586	
0.57751	6.284947	10.368195	0.682244
0.004556	0.465005	64.136563	
0.71834	6.284947	10.368195	0.682244
0.004556	0.184944	77.770580	
0.85917	6.284947	10.368195	0.682244
0.004556	0.042097	105.510266	
1.00000	6.284947	10.368195	0.682244
0.004556	0.114815	139.008187	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-1.290544	-87.000155	-0.194263
-0.004649	-0.220404	-38.195919	
0.57751	-1.290544	-87.000155	-0.194263
-0.004649	-0.138857	-10.610323	
0.71834	-1.290544	-87.000155	-0.194263
-0.004649	-0.057240	-1.501748	
0.85917	-1.290544	-87.000155	-0.194263
-0.004649	-0.121266	-1.262523	
1.00000	-1.290544	-87.000155	-0.194263
-0.004649	-0.404767	-1.024894	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	9.894488	9.676464	1.145726
0.004720	1.267921	60.190136	
0.57751	9.894488	9.676464	1.145726
0.004720	0.788605	62.491164	
0.71834	9.894488	9.676464	1.145726
0.004720	0.314145	75.848457	
0.85917	9.894488	9.676464	1.145726
0.004720	0.091730	108.800786	
1.00000	9.894488	9.676464	1.145726
0.004720	0.296753	149.606211	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-2.468238	-124.295021	-0.511424
-0.004519	-0.568705	-94.525720	
0.57751	-2.468238	-124.295021	-0.511424
-0.004519	-0.354481	-51.002003	
0.71834	-2.468238	-124.295021	-0.511424
-0.004519	-0.140411	-23.141298	
0.85917	-2.468238	-124.295021	-0.511424
-0.004519	-0.185080	-13.902078	
1.00000	-2.468238	-124.295021	-0.511424
-0.004519	-0.664664	-9.111285	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	9.871791	86.550159	1.561004
0.003216	1.747730	209.004999	
0.57751	9.871791	86.550159	1.561004
0.003216	1.094543	177.790604	
0.71834	9.871791	86.550159	1.561004
0.003216	0.444318	154.727974	
0.85917	9.871791	86.550159	1.561004
0.003216	0.146006	146.985045	
1.00000	9.871791	86.550159	1.561004
0.003216	0.539058	146.475290	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-11.613497	-103.030804	-0.954026
-0.003659	-1.066410	-85.900888	
0.57751	-11.613497	-103.030804	-0.954026
-0.003659	-0.666730	-49.082617	
0.71834	-11.613497	-103.030804	-0.954026
-0.003659	-0.267763	-23.308307	
0.85917	-11.613497	-103.030804	-0.954026
-0.003659	-0.224351	-14.838516	
1.00000	-11.613497	-103.030804	-0.954026
-0.003659	-0.877736	-10.148123	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2803

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	11.589769	72.958040	1.799060
0.003002	2.009546	176.887500	
0.57751	11.589769	72.958040	1.799060
0.003002	1.256169	150.527634	
0.71834	11.589769	72.958040	1.799060
0.003002	0.505583	130.951347	
0.85917	11.589769	72.958040	1.799060
0.003002	0.165206	124.285307	
1.00000	11.589769	72.958040	1.799060
0.003002	0.624689	123.686536	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-10.002998	-106.099325	-1.109377
-0.003068	-1.240081	-139.587695	
0.57751	-10.002998	-106.099325	-1.109377
-0.003068	-0.775159	-100.548196	
0.71834	-10.002998	-106.099325	-1.109377
-0.003068	-0.310998	-70.710322	
0.85917	-10.002998	-106.099325	-1.109377
-0.003068	-0.260572	-55.192605	
1.00000	-10.002998	-106.099325	-1.109377
-0.003068	-1.013971	-43.165103	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	5.961327	1.437047	0.835151
0.000484	0.924567	4.777729	
0.57751	5.961327	1.437047	0.835151
0.000484	0.574513	4.201258	
0.71834	5.961327	1.437047	0.835151
0.000484	0.224365	3.636123	
0.85917	5.961327	1.437047	0.835151
0.000484	0.069234	3.088863	
1.00000	5.961327	1.437047	0.835151
0.000484	0.274919	2.614667	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-0.217091	-29.202169	-0.490485
-7.10E-06	-0.547050	-107.339162	
0.57751	-0.217091	-29.202169	-0.490485
-7.10E-06	-0.341312	-95.190325	
0.71834	-0.217091	-29.202169	-0.490485
-7.10E-06	-0.135538	-83.072384	
0.85917	-0.217091	-29.202169	-0.490485
-7.10E-06	-0.125942	-70.986840	
1.00000	-0.217091	-29.202169	-0.490485
-7.10E-06	-0.476077	-58.968363	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	9.275977	2.214044	1.308874
0.000962	1.453151	7.899114	
0.57751	9.275977	2.214044	1.308874
0.000962	0.904474	7.255449	
0.71834	9.275977	2.214044	1.308874
0.000962	0.356124	6.905583	
0.85917	9.275977	2.214044	1.308874
0.000962	0.135733	7.060186	
1.00000	9.275977	2.214044	1.308874
0.000962	0.511001	8.509375	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-2.060210	-61.613359	-0.896313
-0.000160	-0.991015	-171.938541	
0.57751	-2.060210	-61.613359	-0.896313
-0.000160	-0.615133	-146.748159	
0.71834	-2.060210	-61.613359	-0.896313
-0.000160	-0.239240	-122.211925	
0.85917	-2.060210	-61.613359	-0.896313
-0.000160	-0.193891	-98.526510	
1.00000	-2.060210	-61.613359	-0.896313
-0.000160	-0.742568	-76.183565	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2804

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	12.349282	2.790999	1.639240
0.001012	1.820696	29.038135	
0.57751	12.349282	2.790999	1.639240
0.001012	1.133646	31.061565	
0.71834	12.349282	2.790999	1.639240
0.001012	0.446467	36.505443	
0.85917	12.349282	2.790999	1.639240
0.001012	0.128859	50.795520	
1.00000	12.349282	2.790999	1.639240
0.001012	0.501908	72.501527	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-1.762421	-104.968452	-0.890800
-0.000285	-0.990765	-183.923649	
0.57751	-1.762421	-104.968452	-0.890800
-0.000285	-0.617245	-142.757250	
0.71834	-1.762421	-104.968452	-0.890800
-0.000285	-0.243529	-104.663582	
0.85917	-1.762421	-104.968452	-0.890800
-0.000285	-0.241458	-84.725618	
1.00000	-1.762421	-104.968452	-0.890800
-0.000285	-0.929076	-67.544893	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	13.320421	55.540161	1.884827
0.003301	2.096131	155.566607	
0.57751	13.320421	55.540161	1.884827
0.003301	1.307094	136.739618	
0.71834	13.320421	55.540161	1.884827
0.003301	0.520666	125.253439	
0.85917	13.320421	55.540161	1.884827
0.003301	0.157658	126.856115	
1.00000	13.320421	55.540161	1.884827
0.003301	0.593528	134.514508	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-6.945769	-113.516939	-1.052911
-0.003020	-1.176266	-162.511449	
0.57751	-6.945769	-113.516939	-1.052911
-0.003020	-0.734861	-120.792532	
0.71834	-6.945769	-113.516939	-1.052911
-0.003020	-0.293280	-89.031066	
0.85917	-6.945769	-113.516939	-1.052911
-0.003020	-0.285383	-72.014438	
1.00000	-6.945769	-113.516939	-1.052911
-0.003020	-1.075770	-57.451886	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	13.414920	114.117813	1.047737
0.006458	1.160906	212.866220	
0.57751	13.414920	114.117813	1.047737
0.006458	0.721649	172.246067	
0.71834	13.414920	114.117813	1.047737
0.006458	0.295410	146.647600	
0.85917	13.414920	114.117813	1.047737
0.006458	0.106824	133.628175	
1.00000	13.414920	114.117813	1.047737
0.006458	0.379299	141.815978	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.396183	-138.753045	-0.676205
-0.007636	-0.754639	-175.489857	
0.57751	-16.396183	-138.753045	-0.676205
-0.007636	-0.471251	-131.284204	
0.71834	-16.396183	-138.753045	-0.676205
-0.007636	-0.190352	-107.726432	
0.85917	-16.396183	-138.753045	-0.676205
-0.007636	-0.161061	-86.955739	
1.00000	-16.396183	-138.753045	-0.676205
-0.007636	-0.597489	-67.219727	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2805

FRAME ELEMENT INTERNAL FORCES

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	13.320421	111.893325	1.884827
0.006455	2.096131	214.408546	
0.57751	13.320421	111.893325	1.884827
0.006455	1.307094	177.790604	
0.71834	13.320421	111.893325	1.884827
0.006455	0.520666	154.727974	
0.85917	13.320421	111.893325	1.884827
0.006455	0.200239	146.985045	
1.00000	13.320421	111.893325	1.884827
0.006455	0.725860	149.606211	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.635645	-124.295021	-1.275518
-0.007546	-1.420377	-183.923649	
0.57751	-16.635645	-124.295021	-1.275518
-0.007546	-0.885710	-146.748159	
0.71834	-16.635645	-124.295021	-1.275518
-0.007546	-0.351322	-122.211925	
0.85917	-16.635645	-124.295021	-1.275518
-0.007546	-0.285383	-98.526510	
1.00000	-16.635645	-124.295021	-1.275518
-0.007546	-1.075770	-76.183565	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	13.414920	114.117813	1.884827
0.006458	2.096131	214.408546	
0.57751	13.414920	114.117813	1.884827
0.006458	1.307094	177.790604	
0.71834	13.414920	114.117813	1.884827
0.006458	0.520666	154.727974	
0.85917	13.414920	114.117813	1.884827
0.006458	0.200239	146.985045	
1.00000	13.414920	114.117813	1.884827
0.006458	0.725860	149.606211	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.635645	-138.753045	-1.275518
-0.007636	-1.420377	-183.923649	
0.57751	-16.635645	-138.753045	-1.275518
-0.007636	-0.885710	-146.748159	
0.71834	-16.635645	-138.753045	-1.275518
-0.007636	-0.351322	-122.211925	
0.85917	-16.635645	-138.753045	-1.275518
-0.007636	-0.285383	-98.526510	
1.00000	-16.635645	-138.753045	-1.275518
-0.007636	-1.075770	-76.183565	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43668	13.414920	114.117813	1.884827
0.006458	2.096131	214.408546	
0.57751	13.414920	114.117813	1.884827
0.006458	1.307094	177.790604	
0.71834	13.414920	114.117813	1.884827
0.006458	0.520666	154.727974	
0.85917	13.414920	114.117813	1.884827
0.006458	0.200239	146.985045	
1.00000	13.414920	114.117813	1.884827
0.006458	0.725860	149.606211	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43668	-16.635645	-138.753045	-1.275518
-0.007636	-1.420377	-183.923649	
0.57751	-16.635645	-138.753045	-1.275518
-0.007636	-0.885710	-146.748159	
0.71834	-16.635645	-138.753045	-1.275518
-0.007636	-0.351322	-122.211925	
0.85917	-16.635645	-138.753045	-1.275518
-0.007636	-0.285383	-98.526510	
1.00000	-16.635645	-138.753045	-1.275518
-0.007636	-1.075770	-76.183565	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2806

FRAME ELEMENT INTERNAL FORCES

ELEM 259 ========== LENGTH = 2.977210

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.517619	80.861152	0.440978
7.25E-06	0.250776	2.849541	
0.14084	0.517619	80.861152	0.440978
7.25E-06	0.065829	3.477912	
0.28167	0.517619	80.861152	0.440978
7.25E-06	0.116628	4.108101	
0.42251	0.517619	80.861152	0.440978
7.25E-06	0.297720	4.773583	
0.56335	0.517619	80.861152	0.440978
7.25E-06	0.478811	5.461121	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.117980	-2.665208	-0.431887
-0.001085	-0.245554	-23.997324	
0.14084	-13.117980	-2.665208	-0.431887
-0.001085	-0.064409	-57.599573	
0.28167	-13.117980	-2.665208	-0.431887
-0.001085	-0.119045	-91.396263	
0.42251	-13.117980	-2.665208	-0.431887
-0.001085	-0.303934	-125.228430	
0.56335	-13.117980	-2.665208	-0.431887
-0.001085	-0.488837	-159.088620	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.689129	179.981412	0.779113
0.006145	0.468366	125.562404	
0.14084	3.689129	179.981412	0.779113
0.006145	0.142378	100.227343	
0.28167	3.689129	179.981412	0.779113
0.006145	0.156871	75.057321	
0.42251	3.689129	179.981412	0.779113
0.006145	0.401579	68.055938	
0.56335	3.689129	179.981412	0.779113
0.006145	0.646261	73.770640	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-20.324086	-23.356538	-0.583539
-0.007675	-0.332443	-10.840678	
0.14084	-20.324086	-23.356538	-0.583539
-0.007675	-0.106421	-53.446626	
0.28167	-20.324086	-23.356538	-0.583539
-0.007675	-0.210053	-96.348740	
0.42251	-20.324086	-23.356538	-0.583539
-0.007675	-0.512559	-141.230764	
0.56335	-20.324086	-23.356538	-0.583539
-0.007675	-0.839057	-207.857151	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.547133	147.279461	1.016484
0.004177	0.593014	126.200749	
0.14084	7.547133	147.279461	1.016484
0.004177	0.167272	133.677356	
0.28167	7.547133	147.279461	1.016484
0.004177	0.170254	140.014941	
0.42251	7.547133	147.279461	1.016484
0.004177	0.435814	159.280794	
0.56335	7.547133	147.279461	1.016484
0.004177	0.701310	187.190771	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.670987	-73.513553	-0.633163
-0.005628	-0.360631	-8.888422	
0.14084	-17.670987	-73.513553	-0.633163
-0.005628	-0.107668	-48.183102	
0.28167	-17.670987	-73.513553	-0.633163
-0.005628	-0.276471	-87.657639	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2807

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.42251	-17.670987	-73.513553	-0.633163
-0.005628	-0.686233	-128.445547	
0.56335	-17.670987	-73.513553	-0.633163
-0.005628	-1.112323	-184.004322	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.470897	123.136856	1.093327
0.003968	0.630118	105.720163	
0.14084	9.470897	123.136856	1.093327
0.003968	0.172046	112.025603	
0.28167	9.470897	123.136856	1.093327
0.003968	0.191017	120.416116	
0.42251	9.470897	123.136856	1.093327
0.003968	0.487120	140.219813	
0.56335	9.470897	123.136856	1.093327
0.003968	0.783163	170.903164	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.995029	-81.487614	-0.706012
-0.004738	-0.409961	-31.592425	
0.14084	-15.995029	-81.487614	-0.706012
-0.004738	-0.115278	-56.542948	
0.28167	-15.995029	-81.487614	-0.706012
-0.004738	-0.300918	-82.702562	
0.42251	-15.995029	-81.487614	-0.706012
-0.004738	-0.745688	-111.670574	
0.56335	-15.995029	-81.487614	-0.706012
-0.004738	-1.204021	-153.894881	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.957040	65.670767	0.409159
0.005139	0.252778	136.279537	
0.14084	4.957040	65.670767	0.409159
0.005139	0.081841	128.086460	
0.28167	4.957040	65.670767	0.409159
0.005139	0.035326	120.176375	
0.42251	4.957040	65.670767	0.409159
0.005139	0.091271	127.448123	
0.56335	4.957040	65.670767	0.409159
0.005139	0.147294	145.364159	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.472661	-49.909571	-0.133477
-0.005304	-0.076532	-0.766410	
0.14084	-4.472661	-49.909571	-0.133477
-0.005304	-0.036259	-0.610720	
0.28167	-4.472661	-49.909571	-0.133477
-0.005304	-0.111293	-0.516133	
0.42251	-4.472661	-49.909571	-0.133477
-0.005304	-0.262632	-2.054445	
0.56335	-4.472661	-49.909571	-0.133477
-0.005304	-0.434051	-21.813922	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.389577	60.892085	0.744724
0.005024	0.439309	142.081310	
0.14084	9.389577	60.892085	0.744724
0.005024	0.127608	149.802369	

0.28167 9.389577 60.892085 0.744724
0.005024 0.076161 160.366679
0.42251 9.389577 60.892085 0.744724
0.005024 0.194730 185.705205
0.56335 9.389577 60.892085 0.744724
0.005024 0.313255 221.496433

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.480412 -92.069140 -0.282640
-0.005190 -0.160782 -9.519311

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 -5.480412 -92.069140 -0.282640
-0.005190 -0.056701 -5.301320
0.28167 -5.480412 -92.069140 -0.282640
-0.005190 -0.204770 -2.592254
0.42251 -5.480412 -92.069140 -0.282640
-0.005190 -0.498174 -2.713170
0.56335 -5.480412 -92.069140 -0.282640
-0.005190 -0.810298 -21.117190

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.224579 124.257965 0.954093
0.003730 0.553209 136.968791
0.14084 9.224579 124.257965 0.954093
0.003730 0.153521 129.149533
0.28167 9.224579 124.257965 0.954093
0.003730 0.147823 142.715431
0.42251 9.224579 124.257965 0.954093
0.003730 0.377936 168.179371
0.56335 9.224579 124.257965 0.954093
0.003730 0.608041 201.154526

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.897249 -83.839362 -0.548712
-0.004624 -0.312255 -9.789061
0.14084 -13.897249 -83.839362 -0.548712
-0.004624 -0.092304 -15.514705
0.28167 -13.897249 -83.839362 -0.548712
-0.004624 -0.260728 -46.952110
0.42251 -13.897249 -83.839362 -0.548712
-0.004624 -0.647439 -80.676380
0.56335 -13.897249 -83.839362 -0.548712
-0.004624 -1.047393 -127.616396

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.126908 104.347891 1.047591
0.003617 0.599134 115.317275
0.14084 11.126908 104.347891 1.047591
0.003617 0.160178 108.430634
0.28167 11.126908 104.347891 1.047591
0.003617 0.177012 118.926332
0.42251 11.126908 104.347891 1.047591
0.003617 0.451089 139.349638
0.56335 11.126908 104.347891 1.047591
0.003617 0.725114 169.532312

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.826848 -86.215231 -0.653507
-0.003856 -0.370947 -38.366339
0.14084 -11.826848 -86.215231 -0.653507
-0.003856 -0.105367 -36.413281
0.28167 -11.826848 -86.215231 -0.653507
-0.003856 -0.290964 -55.660066
0.42251 -11.826848 -86.215231 -0.653507
-0.003856 -0.719047 -76.602387
0.56335 -11.826848 -86.215231 -0.653507
-0.003856 -1.158221 -108.660270

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.761647 1.242003 0.396887
0.000801 0.215979 2.144995
0.14084 5.761647 1.242003 0.396887
0.000801 0.049561 1.911998
0.28167 5.761647 1.242003 0.396887
0.000801 0.085833 1.853639
0.42251 5.761647 1.242003 0.396887
0.000801 0.217073 1.857580
0.56335 5.761647 1.242003 0.396887
0.000801 0.348358 1.934939

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.179963 -23.997856 -0.313104
-1.65E-05 -0.176783 -50.075920
0.14084 -0.179963 -23.997856 -0.313104
-1.65E-05 -0.045408 -40.467273
0.28167 -0.179963 -23.997856 -0.313104
-1.65E-05 -0.116882 -30.957964
0.42251 -0.179963 -23.997856 -0.313104
-1.65E-05 -0.283270 -21.492388
0.56335 -0.179963 -23.997856 -0.313104
-1.65E-05 -0.449686 -12.083443

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.580143 4.041265 0.692135
0.001546 0.381462 8.525545
0.14084 9.580143 4.041265 0.692135
0.001546 0.105332 11.935342
0.28167 9.580143 4.041265 0.692135
0.001546 0.135323 19.732657
0.42251 9.580143 4.041265 0.692135
0.001546 0.341646 28.991787
0.56335 9.580143 4.041265 0.692135
0.001546 0.547957 39.443407

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.392591 -53.515817 -0.492031
-0.000404 -0.277277 -67.255500
0.14084 -2.392591 -53.515817 -0.492031
-0.000404 -0.071455 -50.795953
0.28167 -2.392591 -53.515817 -0.492031
-0.000404 -0.199809 -36.115852
0.42251 -2.392591 -53.515817 -0.492031
-0.000404 -0.489210 -23.187290
0.56335 -2.392591 -53.515817 -0.492031
-0.000404 -0.779419 -12.646767

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.939952 6.184399 0.951802
0.001339 0.529093 63.563786
0.14084 12.939952 6.184399 0.951802
0.001339 0.129997 91.623686
0.28167 12.939952 6.184399 0.951802
0.001339 0.145344 122.574978
0.42251 12.939952 6.184399 0.951802
0.001339 0.368885 154.046094
0.56335 12.939952 6.184399 0.951802
0.001339 0.592377 187.226220

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.708334 -105.574106 -0.532986
-0.000548 -0.301544 -59.159807
0.14084 -1.708334 -105.574106 -0.532986
-0.000548 -0.078774 -45.262718
0.28167 -1.708334 -105.574106 -0.532986
-0.000548 -0.270390 -32.591283
0.42251 -1.708334 -105.574106 -0.532986
-0.000548 -0.668230 -21.188690
0.56335 -1.708334 -105.574106 -0.532986
-0.000548 -1.067313 -12.059331

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.772534 91.690125 1.045498
0.004286 0.598685 128.187865
0.14084 12.772534 91.690125 1.045498
0.004286 0.161647 118.552145
0.28167 12.772534 91.690125 1.045498
0.004286 0.170367 123.941501
0.42251 12.772534 91.690125 1.045498
0.004286 0.433820 141.711969
0.56335 12.772534 91.690125 1.045498
0.004286 0.697226 168.381465

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.006356 -90.018136 -0.628181
-0.004152 -0.356354 -49.984868
0.14084 -9.006356 -90.018136 -0.628181
-0.004152 -0.102957 -38.240083
0.28167 -9.006356 -90.018136 -0.628181
-0.004152 -0.292905 -44.251229
0.42251 -9.006356 -90.018136 -0.628181
-0.004152 -0.718077 -55.842635
0.56335 -9.006356 -90.018136 -0.628181
-0.004152 -1.156357 -80.242868

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.961332 80.592489 0.810464
4.27E-06 0.482496 3.541083
0.14084 0.961332 80.592489 0.810464
4.27E-06 0.142517 4.082416
0.28167 0.961332 80.592489 0.810464
4.27E-06 0.223625 4.633717
0.42251 0.961332 80.592489 0.810464
4.27E-06 0.563235 5.173629
0.56335 0.961332 80.592489 0.810464
4.27E-06 0.904798 5.838995

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.585182 -2.784812 -0.815820
-0.001042 -0.464949 -30.218494
0.14084 -13.585182 -2.784812 -0.815820
-0.001042 -0.123234 -63.456676
0.28167 -13.585182 -2.784812 -0.815820
-0.001042 -0.200730 -96.665666
0.42251 -13.585182 -2.784812 -0.815820
-0.001042 -0.538433 -129.870556
0.56335 -13.585182 -2.784812 -0.815820
-0.001042 -0.877785 -163.163384

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.141963 175.099296 1.467928
0.006176 0.880542 135.422047
0.14084 4.141963 175.099296 1.467928
0.006176 0.266560 108.907573
0.28167 4.141963 175.099296 1.467928
0.006176 0.292042 82.479460
0.42251 4.141963 175.099296 1.467928
0.006176 0.744383 72.670968
0.56335 4.141963 175.099296 1.467928
0.006176 1.198924 76.825404

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -20.467431 -20.494334 -1.084672
-0.007659 -0.635991 -17.875978
0.14084 -20.467431 -20.494334 -1.084672
-0.007659 -0.193866 -58.268155
0.28167 -20.467431 -20.494334 -1.084672
-0.007659 -0.378431 -98.733472
0.42251 -20.467431 -20.494334 -1.084672
-0.007659 -1.071114 -141.343238
0.56335 -20.467431 -20.494334 -1.084672
-0.007659 -1.585503 -210.686293

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.580342 144.957048 1.742845
0.004501 1.021976 143.640050
0.14084 7.580342 144.957048 1.742845
0.004501 0.292063 145.902055
0.28167 7.580342 144.957048 1.742845
0.004501 0.314261 148.312978
0.42251 7.580342 144.957048 1.742845
0.004501 0.800195 162.554349
0.56335 7.580342 144.957048 1.742845
0.004501 1.287827 186.777127

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -18.101174 -65.660917 -1.163297
-0.005792 -0.674299 -15.331043
0.14084 -18.101174 -65.660917 -1.163297
-0.005792 -0.195926 -52.637250
0.28167 -18.101174 -65.660917 -1.163297
-0.005792 -0.460227 -89.740169
0.42251 -18.101174 -65.660917 -1.163297
-0.005792 -1.174405 -128.369697
0.56335 -18.101174 -65.660917 -1.163297
-0.005792 -1.904286 -186.038704

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.190167 121.299196 1.874825
0.004075 1.086315 120.398187
0.14084 9.190167 121.299196 1.874825
0.004075 0.301322 122.777967
0.28167 9.190167 121.299196 1.874825
0.004075 0.351166 127.400635
0.42251 9.190167 121.299196 1.874825
0.004075 0.886366 143.046671
0.56335 9.190167 121.299196 1.874825
0.004075 1.424334 171.170799

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.210779 -77.356596 -1.283304
-0.004859 -0.736788 -38.373030
0.14084 -16.210779 -77.356596 -1.283304
-0.004859 -0.206727 -60.799015
0.28167 -16.210779 -77.356596 -1.283304
-0.004859 -0.503222 -84.483929
0.42251 -16.210779 -77.356596 -1.283304
-0.004859 -1.275524 -110.367639
0.56335 -16.210779 -77.356596 -1.283304
-0.004859 -2.060906 -155.610490

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.809660 55.061010 0.665261
0.004328 0.389613 139.013304
0.14084 4.809660 55.061010 0.665261
0.004328 0.112692 133.847167
0.28167 4.809660 55.061010 0.665261
0.004328 0.057449 128.690712
0.42251 4.809660 55.061010 0.665261
0.004328 0.149400 135.201105
0.56335 4.809660 55.061010 0.665261
0.004328 0.241136 151.411429

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.012809 -45.739595 -0.218990
-0.004504 -0.136947 -1.018004
0.14084 -4.012809 -45.739595 -0.218990
-0.004504 -0.054234 -0.833696
0.28167 -4.012809 -45.739595 -0.218990
-0.004504 -0.186309 -0.702100
0.42251 -4.012809 -45.739595 -0.218990
-0.004504 -0.450402 -2.056275
0.56335 -4.012809 -45.739595 -0.218990
-0.004504 -0.728836 -22.123019

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.540256 52.319544 1.127341
0.004332 0.647092 149.588656
0.14084 8.540256 52.319544 1.127341
0.004332 0.176219 157.931329
0.28167 8.540256 52.319544 1.127341
0.004332 0.140665 169.468232
0.42251 8.540256 52.319544 1.127341
0.004332 0.350424 192.833757
0.56335 8.540256 52.319544 1.127341
0.004332 0.562418 225.769054

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.049713 -85.113875 -0.505634
-0.004542 -0.295750 -9.114299
0.14084 -5.049713 -85.113875 -0.505634
-0.004542 -0.092755 -5.046428
0.28167 -5.049713 -85.113875 -0.505634
-0.004542 -0.316698 -2.916421
0.42251 -5.049713 -85.113875 -0.505634
-0.004542 -0.775210 -2.880688
0.56335 -5.049713 -85.113875 -0.505634
-0.004542 -1.247134 -22.011561

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.017630 113.602857 1.656790
0.002999 0.952571 146.404840
0.14084 9.017630 113.602857 1.656790
0.002999 0.258349 136.118096
0.28167 9.017630 113.602857 1.656790
0.002999 0.268976 150.393255
0.42251 9.017630 113.602857 1.656790
0.002999 0.681897 174.091232
0.56335 9.017630 113.602857 1.656790
0.002999 1.096744 204.525808

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.221568 -77.764953 -0.989211
-0.003845 -0.568829 -10.142112
0.14084 -13.221568 -77.764953 -0.989211
-0.003845 -0.160336 -13.409193
0.28167 -13.221568 -77.764953 -0.989211
-0.003845 -0.447744 -42.472325
0.42251 -13.221568 -77.764953 -0.989211
-0.003845 -1.113578 -74.613547
0.56335 -13.221568 -77.764953 -0.989211
-0.003845 -1.827867 -119.950056

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.914328 95.682468 1.857027
0.002978 1.057096 123.631157
0.14084 10.914328 95.682468 1.857027
0.002978 0.278944 114.593748
0.28167 10.914328 95.682468 1.857027
0.002978 0.312105 125.383074
0.42251 10.914328 95.682468 1.857027
0.002978 0.790919 144.099126
0.56335 10.914328 95.682468 1.857027
0.002978 1.270915 172.209806

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.352543 -84.963117 -1.144452
-0.003214 -0.653553 -43.180902
0.14084 -11.352543 -84.963117 -1.144452
-0.003214 -0.179018 -37.616111
0.28167 -11.352543 -84.963117 -1.144452
-0.003214 -0.509494 -53.149687
0.42251 -11.352543 -84.963117 -1.144452
-0.003214 -1.280820 -71.122447
0.56335 -11.352543 -84.963117 -1.144452
-0.003214 -2.059089 -102.347801

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.023975 1.476916 0.780553
0.000756 0.428623 2.621092
0.14084 6.023975 1.476916 0.780553
0.000756 0.101542 2.363093
0.28167 6.023975 1.476916 0.780553
0.000756 0.135807 2.224832
0.42251 6.023975 1.476916 0.780553
0.000756 0.341852 2.137833
0.56335 6.023975 1.476916 0.780553
0.000756 0.547916 2.156068

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.216260 -29.303839 -0.491159
-1.23E-05 -0.275452 -58.997403
0.14084 -0.216260 -29.303839 -0.491159
-1.23E-05 -0.069575 -47.111917
0.28167 -0.216260 -29.303839 -0.491159
-1.23E-05 -0.226050 -35.361710
0.42251 -0.216260 -29.303839 -0.491159
-1.23E-05 -0.553327 -23.669570
0.56335 -0.216260 -29.303839 -0.491159
-1.23E-05 -0.880613 -12.069113

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.334431 3.535432 1.254365
0.001354 0.693851 8.513334
0.14084 9.334431 3.535432 1.254365
0.001354 0.168564 12.568416
0.28167 9.334431 3.535432 1.254365
0.001354 0.239932 21.434903
0.42251 9.334431 3.535432 1.254365
0.001354 0.590551 31.712297
0.56335 9.334431 3.535432 1.254365
0.001354 0.944344 42.877865

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.132540 -60.783549 -0.844530
-0.000306 -0.472095 -76.331285
0.14084 -2.132540 -60.783549 -0.844530
-0.000306 -0.118820 -56.911514
0.28167 -2.132540 -60.783549 -0.844530
-0.000306 -0.359142 -40.427100
0.42251 -2.132540 -60.783549 -0.844530
-0.000306 -0.884455 -25.016405
0.56335 -2.132540 -60.783549 -0.844530
-0.000306 -1.410359 -12.140952

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.527216 2.825509 1.574342
0.000972 0.870599 72.460991
0.14084 12.527216 2.825509 1.574342
0.000972 0.211097 98.970529
0.28167 12.527216 2.825509 1.574342
0.000972 0.244462 126.821167
0.42251 12.527216 2.825509 1.574342
0.000972 1.60967 159.499866
0.56335 12.527216 2.825509 1.574342
0.000972 0.977208 190.649559

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.737371 -105.772866 -0.876336
-0.000217 -0.491619 -67.576880
0.14084 -1.737371 -105.772866 -0.876336
-0.000217 -0.124737 -51.059578
0.28167 -1.737371 -105.772866 -0.876336
-0.000217 -0.450071 -36.591312
0.42251 -1.737371 -105.772866 -0.876336
-0.000217 -1.110055 -22.908750
0.56335 -1.737371 -105.772866 -0.876336
-0.000217 -1.770112 -10.722189

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.594049 80.300005 1.876258
0.003339 1.059999 134.475408
0.14084 12.594049 80.300005 1.876258
0.003339 0.274507 125.741089
0.28167 12.594049 80.300005 1.876258
0.003339 0.294410 131.844910
0.42251 12.594049 80.300005 1.876258
0.003339 0.741936 150.022672
0.56335 12.594049 80.300005 1.876258
0.003339 1.191411 174.776106

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.426983 -90.611018 -1.071858
-0.003207 -0.611566 -57.474091
0.14084 -8.426983 -90.611018 -1.071858
-0.003207 -0.167766 -43.494729
0.28167 -8.426983 -90.611018 -1.071858
-0.003207 -0.524406 -44.884774
0.42251 -8.426983 -90.611018 -1.071858
-0.003207 -1.302610 -52.814472
0.56335 -8.426983 -90.611018 -1.071858
-0.003207 -2.088686 -73.247121

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.939952 179.981412 1.093327
0.006145 0.630118 142.081310
0.14084 12.939952 179.981412 1.093327
0.006145 0.172046 149.802369
0.28167 12.939952 179.981412 1.093327
0.006145 0.191017 160.368579
0.42251 12.939952 179.981412 1.093327
0.006145 0.487120 185.705205
0.56335 12.939952 179.981412 1.093327
0.006145 0.783163 221.496433

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -20.324086 -105.574106 -0.706012
-0.007675 -0.400961 -67.255500
0.14084 -20.324086 -105.574106 -0.706012
-0.007675 -0.115278 -57.599573
0.28167 -20.324086 -105.574106 -0.706012
-0.007675 -0.300918 -96.348740
0.42251 -20.324086 -105.574106 -0.706012
-0.007675 -0.745688 -141.230764
0.56335 -20.324086 -105.574106 -0.706012
-0.007675 -1.204021 -207.857151

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.594049 175.099296 1.876258
0.006176 1.086315 149.588656
0.14084 12.594049 175.099296 1.876258
0.006176 0.301322 157.931329
0.28167 12.594049 175.099296 1.876258
0.006176 0.351166 169.468232
0.42251 12.594049 175.099296 1.876258
0.006176 0.886366 192.833757
0.56335 12.594049 175.099296 1.876258
0.006176 1.424334 225.769054

```
COMB       DL ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.00000  -20.467431 -105.772866    -1.283304
-0.007659   -0.736788   -76.231285
0.14084  -20.467431 -105.772866    -1.283304
-0.007659   -0.206727   -63.456676
0.28167  -20.467431 -105.772866    -1.283304
-0.007659   -0.524406   -98.733472
0.42251  -20.467431 -105.772866    -1.283304
-0.007659   -1.302610  -141.343238
0.56335  -20.467431 -105.772866    -1.283304
-0.007659   -2.088686  -210.686293

COMB       CAR ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.00000   12.939952  179.981412     1.876258
 0.006176   1.086315  149.588656
0.14084   12.939952  179.981412     1.876258
 0.006176   0.301322  157.931329
0.28167   12.939952  179.981412     1.876258
 0.006176   0.351166  169.468232
0.42251   12.939952  179.981412     1.876258
 0.006176   0.886366  192.833757
0.56335   12.939952  179.981412     1.876258
 0.006176   1.424334  225.769054
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2815

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       CAR ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.00000  -20.467431 -105.772866    -1.283304
-0.007675   -0.736788   -76.231285
0.14084  -20.467431 -105.772866    -1.283304
-0.007675   -0.206727   -63.456676
0.28167  -20.467431 -105.772866    -1.283304
-0.007675   -0.524406   -98.733472
0.42251  -20.467431 -105.772866    -1.283304
-0.007675   -1.302610  -141.343238
0.56335  -20.467431 -105.772866    -1.283304
-0.007675   -2.088686  -210.686293

COMB    DESIGN ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.00000   12.939952  179.981412     1.876258
 0.006176   1.086315  149.588656
0.14084   12.939952  179.981412     1.876258
 0.006176   0.301322  157.931329
0.28167   12.939952  179.981412     1.876258
 0.006176   0.351166  169.468232
0.42251   12.939952  179.981412     1.876258
 0.006176   0.886366  192.833757
0.56335   12.939952  179.981412     1.876258
 0.006176   1.424334  225.769054

COMB    DESIGN ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.00000  -20.467431 -105.772866    -1.283304
-0.007675   -0.736788   -76.231285
0.14084  -20.467431 -105.772866    -1.283304
-0.007675   -0.206727   -63.456676
0.28167  -20.467431 -105.772866    -1.283304
-0.007675   -0.524406   -98.733472
0.42251  -20.467431 -105.772866    -1.283304
-0.007675   -1.302610  -141.343238
0.56335  -20.467431 -105.772866    -1.283304
-0.007675   -2.088686  -210.686293

ELEM       260 ================== LENGTH
=      2.977834

COMB DB-G1-1 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   0.301404   74.126323     0.424117
 1.41E-05   0.476192   99.607053
0.57742   0.301404   74.126323     0.424117
 1.41E-05   0.298292   68.567305
0.71828   0.301404   74.126323     0.424117
 1.41E-05   0.120404   37.581070
0.85914   0.301404   74.126323     0.424117
 1.41E-05   0.055792   6.854961
1.00000   0.301404   74.126323     0.424117
 1.41E-05   0.228282   2.861868

COMB DB-G1-1 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -11.645931   -1.836489    -0.411205
-0.001527   -0.461650   -5.275735
0.57742  -11.645931   -1.836489    -0.411205
-0.001527   -0.289168   -5.152500
0.71828  -11.645931   -1.836489    -0.411205
-0.001527   -0.116700   -5.667979
0.85914  -11.645931   -1.836489    -0.411205
-0.001527   -0.057745   -7.325391
1.00000  -11.645931   -1.836489    -0.411205
-0.001527   -0.235408   -26.061621

COMB DB-G1-2 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   4.972170  104.977857     0.840825
 0.006170   0.917122  191.843861
0.57742   4.972170  104.977857     0.840825
 0.006170   0.564431  149.773698
0.71828   4.972170  104.977857     0.840825
 0.006170   0.233796  121.748514
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2816

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
          T          M2           M3
0.85914   4.972170  104.977857     0.840825
 0.006170   0.087971  111.828520
1.00000   4.972170  104.977857     0.840825
 0.006170   0.313283  120.516592

COMB DB-G1-2 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -14.559984  -85.382273    -0.565941
-0.008030   -0.636259   -33.015891
0.57742  -14.559984  -85.382273    -0.565941
-0.008030   -0.398883   -7.695832
0.71828  -14.559984  -85.382273    -0.565941
-0.008030   -0.161485   -4.306910
0.85914  -14.559984  -85.382273    -0.565941
-0.008030   -0.150132   -5.004924
1.00000  -14.559984  -85.382273    -0.565941
-0.008030   -0.495395   -13.967812

COMB DB-G1-3 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   8.500880   94.635067     1.170534
 0.004710   1.294401  183.787729
0.57742   8.500880   94.635067     1.170534
 0.004710   0.803411  146.313048
0.71828   8.500880   94.635067     1.170534
 0.004710   0.327431  119.141187
0.85914   8.500880   94.635067     1.170534
 0.004710   0.092687  106.117142
1.00000   8.500880   94.635067     1.170534
 0.004710   0.351318  118.370769

COMB DB-G1-3 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -13.403645  -116.272595   -0.635107
-0.005948   -0.714268   -85.621523
0.57742  -13.403645  -116.272595   -0.635107
-0.005948   -0.447878   -44.115559
0.71828  -13.403645  -116.272595   -0.635107
-0.005948   -0.181410   -15.873172
0.85914  -13.403645  -116.272595   -0.635107
-0.005948   -0.183557   -4.333159
1.00000  -13.403645  -116.272595   -0.635107
-0.005948   -0.670886   -11.570797

COMB DB-G1-4 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   10.128992   78.964804     1.320589
 0.004407   1.463186  153.571257
0.57742   10.128992   78.964804     1.320589
 0.004407   0.909256  122.357563
0.71828   10.128992   78.964804     1.320589
 0.004407   0.367780   99.713376
0.85914   10.128992   78.964804     1.320589
 0.004407   0.104608   88.854147
1.00000   10.128992   78.964804     1.320589
 0.004407   0.388831   99.128563

COMB DB-G1-4 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -11.538771  -113.695055   -0.700392
-0.004942   -0.786292  -119.281331
0.57742  -11.538771  -113.695055   -0.700392
-0.004942   -0.492513   -77.930549
0.71828  -11.538771  -113.695055   -0.700392
-0.004942   -0.198670   -47.912818
0.85914  -11.538771  -113.695055   -0.700392
-0.004942   -0.202800   -32.314155
1.00000  -11.538771  -113.695055   -0.700392
-0.004942   -0.753650   -31.878744

COMB DB-G2-1 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   6.276477   8.905670     0.533801
0.005361   0.575847   51.245059
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2817

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
          T          M2           M3
0.57742   6.276477   8.905670     0.533801
0.005361   0.351939   49.885039
0.71828   6.276477   8.905670     0.533801
0.005361   0.146501   60.914148
0.85914   6.276477   8.905670     0.533801
0.005361   0.028856   89.208640
1.00000   6.276477   8.905670     0.533801
0.005361   0.080713   129.238915

COMB DB-G2-1 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -0.944708 -103.750979    -0.147346
-0.005454   -0.166501   -51.527351
0.57742  -0.944708 -103.750979    -0.147346
-0.005454   -0.104687   -16.457375
0.71828  -0.944708 -103.750979    -0.147346
-0.005454   -0.042863   -0.935003
0.85914  -0.944708 -103.750979    -0.147346
-0.005454   -0.101876   -0.705158
1.00000  -0.944708 -103.750979    -0.147346
-0.005454   -0.321249   -0.662136

COMB DB-G2-2 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   10.772946   8.125512     0.981837
 0.005591   0.107860   53.357342
0.57742   10.772946   8.125512     0.981837
 0.005591   0.666767   53.020317
0.71828   10.772946   8.125512     0.981837
 0.005591   0.272118   63.968205
0.85914   10.772946   8.125512     0.981837
 0.005591   0.054218   91.060365
1.00000   10.772946   8.125512     0.981837
 0.005591   0.169782   133.521949

COMB DB-G2-2 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -1.408045 -140.814729    -0.307168
-0.005090   -0.345570  -116.194550
0.57742  -1.408045 -140.814729    -0.307168
-0.005090   -0.216728   -65.301956
0.71828  -1.408045 -140.814729    -0.307168
-0.005090   -0.087797   -29.889964
0.85914  -1.408045 -140.814729    -0.307168
-0.005090   -0.162723   -34.346658
1.00000  -1.408045 -140.814729    -0.307168
-0.005090   -0.570233   -9.608761

COMB DB-G2-3 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   9.677509   82.770162     1.185985
 0.004127   1.323520  191.824827
0.57742   9.677509   82.770162     1.185985
 0.004127   0.826048  159.241836
0.71828   9.677509   82.770162     1.185985
 0.004127   0.328416  135.230576
0.85914   9.677509   82.770162     1.185985
 0.004127   0.084404  123.339825
1.00000   9.677509   82.770162     1.185985
 0.004127   0.306710  126.143354

COMB DB-G2-3 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -10.076538  -117.890862   -0.554072
-0.004541   -0.622900  -103.026236
0.57742  -10.076538  -117.890862   -0.554072
-0.004541   -0.390495   -59.623702
0.71828  -10.076538  -117.890862   -0.554072
-0.004541   -0.158005   -27.312085
0.85914  -10.076538  -117.890862   -0.554072
-0.004541   -0.176435   -12.684570
1.00000  -10.076538  -117.890862   -0.554072
-0.004541   -0.667387   -9.327381
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2818

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656  11.129145   69.027488     1.349694
 0.003969   1.504122  160.288139
0.57742  11.129145   69.027488     1.349694
 0.003969   0.937981  133.104565
0.71828  11.129145   69.027488     1.349694
 0.003969   0.382031  113.093872
0.85914  11.129145   69.027488     1.349694
 0.003969   0.095968  103.208199
1.00000  11.129145   69.027488     1.349694
 0.003969   0.360542  105.502398

COMB DB-G2-4 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -8.488503 -110.945009    -0.649138
-0.003799   -0.728580  -131.808917
0.57742  -8.488503 -110.945009    -0.649138
-0.003799   -0.456298   -90.465758
0.71828  -8.488503 -110.945009    -0.649138
-0.003799   -0.183928   -58.391223
0.85914  -8.488503 -110.945009    -0.649138
-0.003799   -0.200590   -40.851252
1.00000  -8.488503 -110.945009    -0.649138
-0.003799   -0.761313   -33.185055

COMB DB-G3-1 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   4.928767   0.354883     0.571151
 0.000809   0.632901   1.036331
0.57742   4.928767   0.354883     0.571151
 0.000809   0.393356   0.982429
0.71828   4.928767   0.354883     0.571151
 0.000809   0.153778   0.946237
0.85914   4.928767   0.354883     0.571151
 0.000809   0.042159   0.933229
1.00000   4.928767   0.354883     0.571151
 0.000809   0.167294   0.960573

COMB DB-G3-1 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -0.138561  -17.511599    -0.298236
-7.10E-06   -0.333096   -68.853596
0.57742  -0.138561  -17.511599    -0.298236
-7.10E-06   -0.208062   -61.728812
0.71828  -0.138561  -17.511599    -0.298236
-7.10E-06   -0.083146   -54.667109
0.85914  -0.138561  -17.511599    -0.298236
-7.10E-06   -0.085843   -47.672694
1.00000  -0.138561  -17.511599    -0.298236
-7.10E-06   -0.325405   -40.773047

COMB DB-G3-2 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   8.846731   0.530041     0.973144
 0.001567   1.081074   3.807438
0.57742   8.846731   0.530041     0.973144
 0.001567   0.672880   3.830167
0.71828   8.846731   0.530041     0.973144
 0.001567   0.265420   4.355518
0.85914   8.846731   0.530041     0.973144
 0.001567   0.075197   5.604951
1.00000   8.846731   0.530041     0.973144
 0.001567   0.267318   7.451017

COMB DB-G3-2 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -0.764961  -46.168918    -0.471877
-0.000204   -0.527094  -126.750245
0.57742  -0.764961  -46.168918    -0.471877
-0.000204   -0.329161  -108.405795
0.71828  -0.764961  -46.168918    -0.471877
-0.000204   -0.131218   -91.272956
0.85914  -0.764961  -46.168918    -0.471877
-0.000204   -0.143846   -74.467741
1.00000  -0.764961  -46.168918    -0.471877
-0.000204   -0.551780   -58.537029
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2819

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   12.389328   1.549555     1.306391
 0.001906   0.466526   26.404935
0.57742   12.389328   1.549555     1.306391
 0.001906   0.906549   27.195039
0.71828   12.389328   1.549555     1.306391
 0.001906   0.359702   29.722388
0.85914   12.389328   1.549555     1.306391
 0.001906   0.077823   36.138124
1.00000   12.389328   1.549555     1.306391
 0.001906   0.299426   56.993410

COMB DB-G3-3 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -0.822823 -102.335784    -0.537430
-0.000486   -0.602268  -164.016923
0.57742  -0.822823 -102.335784    -0.537430
-0.000486   -0.376837  -122.322055
0.71828  -0.822823 -102.335784    -0.537430
-0.000486   -0.151323   -82.222030
0.85914  -0.822823 -102.335784    -0.537430
-0.000486   -0.125953   -60.520842
1.00000  -0.822823 -102.335784    -0.537430
-0.000486   -0.737563   -50.028276

COMB DB-G3-4 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   12.524602   51.976722     1.416314
 0.004640   1.570226  137.964970
0.57742   12.524602   51.976722     1.416314
 0.004640   0.976142  118.054243
0.71828   12.524602   51.976722     1.416314
 0.004640   0.382416  106.456708
0.85914   12.524602   51.976722     1.416314
 0.004640   0.094332  106.592373
1.00000   12.524602   51.976722     1.416314
 0.004640   0.347345  118.398675

COMB DB-G3-4 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -5.867068  -118.585035   -0.624983
-0.004013   -0.701256  -145.715309
0.57742  -5.867068  -118.585035   -0.624983
-0.004013   -0.439105  -102.036251
0.71828  -5.867068  -118.585035   -0.624983
-0.004013   -0.176875   -69.231294
0.85914  -5.867068  -118.585035   -0.624983
-0.004013   -0.216184   -50.854154
1.00000  -5.867068  -118.585035   -0.624983
-0.004013   -0.807202   -42.140793

COMB DL-G1-1 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   0.501229   68.583301     0.811221
 1.05E-05   0.928098   89.201214
0.57742   0.501229   68.583301     0.811221
 1.05E-05   0.587737   60.982238
0.71828   0.501229   68.583301     0.811221
 1.05E-05   0.248332   33.217435
0.85914   0.501229   68.583301     0.811221
 1.05E-05   0.116289   7.009802
1.00000   0.501229   68.583301     0.811221
 1.05E-05   0.455488   3.490700

COMB DL-G1-1 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -10.702085   -1.633325    -0.811889
-0.001585   -0.907393   -5.831955
0.57742  -10.702085   -1.633325    -0.811889
-0.001585   -0.566973   -5.907724
0.71828  -10.702085   -1.633325    -0.811889
-0.001585   -0.227374   -6.556222
0.85914  -10.702085   -1.633325    -0.811889
-0.001585   -0.092641   -8.938096
1.00000  -10.702085   -1.633325    -0.811889
-0.001585   -0.432540   -31.438201
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2820

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   5.139627   96.314383     1.619893
 0.006205   1.807809  178.775241
0.57742   5.139627   96.314383     1.619893
 0.006205   1.129692  143.225550
0.71828   5.139627   96.314383     1.619893
 0.006205   0.469074  120.787043
0.85914   5.139627   96.314383     1.619893
 0.006205   0.167120  115.638677
1.00000   5.139627   96.314383     1.619893
 0.006205   0.598434  127.361626

COMB DL-G1-2 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -13.248622   -79.851721    -1.074513
-0.007979   -1.206120   -35.388144
0.57742  -13.248622   -79.851721    -1.074513
-0.007979   -0.755689   -8.362202
0.71828  -13.248622   -79.851721    -1.074513
-0.007979   -0.306052   -5.670602
0.85914  -13.248622   -79.851721    -1.074513
-0.007979   -0.235872   -6.684254
1.00000  -13.248622   -79.851721    -1.074513
-0.007979   -0.911040   -20.676170

COMB DL-G1-3 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   8.108546   86.492895     2.061541
 0.004835   2.304700  169.533945
0.57742   8.108546   86.492895     2.061541
 0.004835   1.441074  137.833228
0.71828   8.108546   86.492895     2.061541
 0.004835   0.589676  116.036219
0.85914   8.108546   86.492895     2.061541
 0.004835   0.176478  113.007429
1.00000   8.108546   86.492895     2.061541
 0.004835   0.657161  131.660659

COMB DL-G1-3 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -12.233411  -106.383468   -1.180155
-0.006101   -1.323740   -77.537727
0.57742  -12.233411  -106.383468   -1.180155
-0.006101   -0.829066   -38.322274
0.71828  -12.233411  -106.383468   -1.180155
-0.006101   -0.334970   -16.900563
0.85914  -12.233411  -106.383468   -1.180155
-0.006101   -0.293581   -6.681507
1.00000  -12.233411  -106.383468   -1.180155
-0.006101   -1.155541   -18.242620

COMB DL-G1-4 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   9.339609   72.170539     2.268921
 0.004522   2.534809  141.728953
0.57742   9.339609   72.170539     2.268921
 0.004522   1.594030  115.309617
0.71828   9.339609   72.170539     2.268921
 0.004522   0.643440   97.128162
0.85914   9.339609   72.170539     2.268921
 0.004522   0.197200   94.642600
1.00000   9.339609   72.170539     2.268921
 0.004522   0.737072  110.117343

COMB DL-G1-4 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656  -10.581742  -105.956358   -1.315746
-0.005070   -1.470706  -113.637616
0.57742  -10.581742  -105.956358   -1.315746
-0.005070   -0.919151   -27.928340
0.71828  -10.581742  -105.956358   -1.315746
-0.005070   -0.367907   -48.889069
0.85914  -10.581742  -105.956358   -1.315746
-0.005070   -0.323857   -34.138966
1.00000  -10.581742  -105.956358   -1.315746
-0.005070   -1.273206   -37.114870
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         2821

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   5.539131   9.045510     0.881750
 0.004521   0.963743   53.037512
0.57742   5.539131   9.045510     0.881750
 0.004521   0.594610   53.902703
0.71828   5.539131   9.045510     0.881750
 0.004521   0.238008   65.896147
0.85914   5.539131   9.045510     0.881750
 0.004521   0.042478   94.186264
1.00000   5.539131   9.045510     0.881750
 0.004521   0.127900   128.148395

COMB DL-G2-1 ------------------- MIN

REL DIST            P            V2           V3
          T          M2           M3
0.43656   -0.950489   -88.650534    -0.232854
-0.004545   -0.263555   -46.197549
0.57742   -0.950489   -88.650534    -0.232854
-0.004545   -0.165817   -14.385998
0.71828   -0.950489   -88.650534    -0.232854
-0.004545   -0.067957   -0.957252
0.85914   -0.950489   -88.650534    -0.232854
-0.004545   -0.149122   -0.924820
1.00000   -0.950489   -88.650534    -0.232854
-0.004545   -0.516455   -0.913519

COMB DL-G2-2 ------------------- MAX

REL DIST            P            V2           V3
          T          M2           M3
0.43656   9.390586   8.475066     1.525307
 0.004853   1.682918   54.747466
0.57742   9.390586   8.475066     1.525307
 0.004853   1.044167   55.673776
0.71828   9.390586   8.475066     1.525307
 0.004853   0.416939   66.241565
0.85914   9.390586   8.475066     1.525307
 0.004853   0.093571   96.552982
1.00000   9.390586   8.475066     1.525307
 0.004853   0.317332   136.496962
```

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-1.454409	-122.749750	-0.563016
-0.004344	-0.627168	-102.760326	
0.57742	-1.454409	-122.749750	-0.563016
-0.004344	-0.390934	-56.501537	
0.71828	-1.454409	-122.749750	-0.563016
-0.004344	-0.154839	-26.992544	
0.85914	-1.454409	-122.749750	-0.563016
-0.004344	-0.239942	-12.773124	
1.00000	-1.454409	-122.749750	-0.563016
-0.004344	-0.877846	-9.070073	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	8.569828	77.101426	2.061061
0.003347	2.305140	185.375065	
0.57742	8.569828	77.101426	2.061061
0.003347	1.441359	156.542928	
0.71828	8.569828	77.101426	2.061061
0.003347	0.584281	134.490977	
0.85914	8.569828	77.101426	2.061061
0.003347	0.149477	127.861043	
1.00000	8.569828	77.101426	2.061061
0.003347	0.571820	130.029082	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-9.200291	-100.774817	-1.026022
-0.003778	-1.149437	-90.534225	
0.57742	-9.200291	-100.774817	-1.026022
-0.003778	-0.718857	-52.293096	
0.71828	-9.200291	-100.774817	-1.026022
-0.003778	-0.288516	-25.358125	
0.85914	-9.200291	-100.774817	-1.026022
-0.003778	-0.290250	-12.817014	
1.00000	-9.200291	-100.774817	-1.026022
-0.003778	-1.152612	-9.508821	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2822

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	9.922214	64.356470	2.339956
0.003354	2.613046	155.143112	
0.57742	9.922214	64.356470	2.339956
0.003354	1.632116	131.082535	
0.71828	9.922214	64.356470	2.339956
0.003354	0.656872	112.675418	
0.85914	9.922214	64.356470	2.339956
0.003354	0.169450	107.109638	
1.00000	9.922214	64.356470	2.339956
0.003354	0.656578	109.019871	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-7.799651	-98.025949	-1.177636
-0.003160	-1.318564	-126.052764	
0.57742	-7.799651	-98.025949	-1.177636
-0.003160	-0.824469	-88.367491	
0.71828	-7.799651	-98.025949	-1.177636
-0.003160	-0.330456	-63.682358	
0.85914	-7.799651	-98.025949	-1.177636
-0.003160	-0.333082	-43.799671	
1.00000	-7.799651	-98.025949	-1.177636
-0.003160	-1.312812	-35.554696	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	4.544124	0.386254	1.021120
0.000857	1.132873	1.547442	
0.57742	4.544124	0.386254	1.021120
0.000857	0.704580	1.398004	
0.71828	4.544124	0.386254	1.021120
0.000857	0.276232	1.283005	
0.85914	4.544124	0.386254	1.021120
0.000857	0.071063	1.189054	
1.00000	4.544124	0.386254	1.021120
0.000857	0.281321	1.152440	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-0.155368	-19.131197	-0.501637
-4.14E-06	-0.557637	-76.969656	
0.57742	-0.155368	-19.131197	-0.501637
-4.14E-06	-0.349099	-69.062107	
0.71828	-0.155368	-19.131197	-0.501637
-4.14E-06	-0.138467	-61.185566	
0.85914	-0.155368	-19.131197	-0.501637
-4.14E-06	-0.152127	-53.433548	
1.00000	-0.155368	-19.131197	-0.501637
-4.14E-06	-0.580465	-45.755047	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	7.844457	0.524492	1.644529
0.001542	1.828520	3.654548	
0.57742	7.844457	0.524492	1.644529
0.001542	1.138785	3.747715	
0.71828	7.844457	0.524492	1.644529
0.001542	0.449499	4.143612	
0.85914	7.844457	0.524492	1.644529
0.001542	0.135815	5.047209	
1.00000	7.844457	0.524492	1.644529
0.001542	0.513369	6.750668	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-0.832569	-47.029554	-0.901101
-0.000130	-0.997306	-133.818458	
0.57742	-0.832569	-47.029554	-0.901101
-0.000130	-0.619078	-114.723872	
0.71828	-0.832569	-47.029554	-0.901101
-0.000130	-0.240901	-96.432262	
0.85914	-0.832569	-47.029554	-0.901101
-0.000130	-0.241361	-78.995193	
1.00000	-0.832569	-47.029554	-0.901101
-0.000130	-0.931012	-62.495926	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2823

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	10.839685	1.360933	2.118476
0.001563	2.355778	24.809535	
0.57742	10.839685	1.360933	2.118476
0.001563	1.467291	26.193431	
0.71828	10.839685	1.360933	2.118476
0.001563	0.578662	29.292724	
0.85914	10.839685	1.360933	2.118476
0.001563	0.135007	41.604007	
1.00000	10.839685	1.360933	2.118476
0.001563	0.528581	62.490332	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-0.907725	-92.886794	-0.937749
-0.000180	-1.043764	-159.193292	
0.57742	-0.907725	-92.886794	-0.937749
-0.000180	-0.650281	-121.918454	
0.71828	-0.907725	-92.886794	-0.937749
-0.000180	-0.256973	-86.249280	
0.85914	-0.907725	-92.886794	-0.937749
-0.000180	-0.310259	-66.455090	
1.00000	-0.907725	-92.886794	-0.937749
-0.000180	-1.199280	-54.633805	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	11.063567	49.329245	2.431289
0.003726	2.703723	137.411971	
0.57742	11.063567	49.329245	2.431289
0.003726	1.684445	119.814353	
0.71828	11.063567	49.329245	2.431289
0.003726	0.671585	108.350667	
0.85914	11.063567	49.329245	2.431289
0.003726	0.163419	110.530201	
1.00000	11.063567	49.329245	2.431289
0.003726	0.624870	119.752693	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-5.450289	-103.372884	-1.116466
-0.003062	-1.247735	-141.822780	
0.57742	-5.450289	-103.372884	-1.116466
-0.003062	-0.773319	-102.132482	
0.71828	-5.450289	-103.372884	-1.116466
-0.003062	-0.311044	-72.770676	
0.85914	-5.450289	-103.372884	-1.116466
-0.003062	-0.359808	-56.194070	
1.00000	-5.450289	-103.372884	-1.116466
-0.003062	-1.376089	-46.390022	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	12.524602	104.977857	1.416314
0.006170	1.570226	191.843861	
0.57742	12.524602	104.977857	1.416314
0.006170	0.976142	159.241836	
0.71828	12.524602	104.977857	1.416314
0.006170	0.394116	135.230576	
0.85914	12.524602	104.977857	1.416314
0.006170	0.104608	123.339825	
1.00000	12.524602	104.977857	1.416314
0.006170	0.388831	133.521949	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-14.559984	-140.814729	-0.700392
-0.008030	-0.786292	-164.016923	
0.57742	-14.559984	-140.814729	-0.700392
-0.008030	-0.492513	-122.322055	
0.71828	-14.559984	-140.814729	-0.700392
-0.008030	-0.198670	-91.272956	
0.85914	-14.559984	-140.814729	-0.700392
-0.008030	-0.216184	-74.467741	
1.00000	-14.559984	-140.814729	-0.700392
-0.008030	-0.807202	-58.537029	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2824

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	11.063567	96.314383	2.431289
0.006205	2.703723	185.375065	
0.57742	11.063567	96.314383	2.431289
0.006205	1.684445	156.542928	
0.71828	11.063567	96.314383	2.431289
0.006205	0.671585	134.490977	
0.85914	11.063567	96.314383	2.431289
0.006205	0.197200	127.861043	
1.00000	11.063567	96.314383	2.431289
0.006205	0.737072	136.496962	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-13.248622	-122.749750	-1.315746
-0.007979	-1.470706	-159.193292	
0.57742	-13.248622	-122.749750	-1.315746
-0.007979	-0.919151	-121.918454	
0.71828	-13.248622	-122.749750	-1.315746
-0.007979	-0.367907	-96.432262	
0.85914	-13.248622	-122.749750	-1.315746
-0.007979	-0.359808	-78.995193	
1.00000	-13.248622	-122.749750	-1.315746
-0.007979	-1.376089	-62.495926	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	12.524602	104.977857	2.431289
0.006205	2.703723	191.843861	
0.57742	12.524602	104.977857	2.431289
0.006205	1.684445	159.241836	
0.71828	12.524602	104.977857	2.431289
0.006205	0.671585	135.230576	
0.85914	12.524602	104.977857	2.431289
0.006205	0.737072	136.496962	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-14.559984	-140.814729	-1.315746
-0.008030	-1.470706	-164.016923	
0.57742	-14.559984	-140.814729	-1.315746
-0.008030	-0.919151	-122.322055	
0.71828	-14.559984	-140.814729	-1.315746
-0.008030	-0.367907	-96.432262	
0.85914	-14.559984	-140.814729	-1.315746
-0.008030	-0.359808	-78.995193	
1.00000	-14.559984	-140.814729	-1.315746
-0.008030	-1.376089	-62.495926	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	12.524602	104.977857	2.431289
0.006205	2.703723	191.843861	
0.57742	12.524602	104.977857	2.431289
0.006205	1.684445	159.241836	
0.71828	12.524602	104.977857	2.431289
0.006205	0.671585	135.230576	
0.85914	12.524602	104.977857	2.431289
0.006205	0.197200	127.861043	
1.00000	12.524602	104.977857	2.431289
0.006205	0.737072	136.496962	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-14.559984	-140.814729	-1.315746
-0.008030	-1.470706	-164.016923	
0.57742	-14.559984	-140.814729	-1.315746
-0.008030	-0.919151	-122.322055	
0.71828	-14.559984	-140.814729	-1.315746
-0.008030	-0.367907	-96.432262	
0.85914	-14.559984	-140.814729	-1.315746
-0.008030	-0.359808	-78.995193	
1.00000	-14.559984	-140.814729	-1.315746
-0.008030	-1.376089	-62.495926	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2825

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 261 ========== LENGTH = 2.976788

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.295858	73.891943	0.445687
7.35E-06	0.253778	2.660745	
0.14082	0.295858	73.891943	0.445687
7.35E-06	0.076656	3.545975	
0.28164	0.295858	73.891943	0.445687
7.35E-06	0.116144	4.231626	
0.42247	0.295858	73.891943	0.445687
7.35E-06	0.297172	4.946627	
0.56329	0.295858	73.891943	0.445687
7.35E-06	0.478199	5.677416	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.614438	-1.776922	-0.431841
-0.001534	-0.245906	-26.094485	
0.14082	-11.614438	-1.776922	-0.431841
-0.001534	-0.064823	-56.551564	
0.28164	-11.614438	-1.776922	-0.431841
-0.001534	-0.119900	-87.457766	
0.42247	-11.614438	-1.776922	-0.431841
-0.001534	-0.306717	-118.368946	
0.56329	-11.614438	-1.776922	-0.431841
-0.001534	-0.493545	-149.304735	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.375155	170.501789	0.868843
0.006037	0.532858	120.874857	
0.14082	2.375155	170.501789	0.868843
0.006037	0.170423	96.595397	
0.28164	2.375155	170.501789	0.868843
0.006037	0.180473	72.479263	
0.42247	2.375155	170.501789	0.868843
0.006037	0.411622	66.519563	
0.56329	2.375155	170.501789	0.868843
0.006037	0.662735	73.963587	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.585641	-23.437030	-0.599034
-0.008191	-0.341704	-14.008865	
0.14082	-18.585641	-23.437030	-0.599034
-0.008191	-0.106722	-53.456249	
0.28164	-18.585641	-23.437030	-0.599034
-0.008191	-0.576697	-135.186747	
0.56329	-18.585641	-23.437030	-0.599034
-0.008191	-0.939392	-198.481797	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.811448	139.183421	1.214852
0.004103	0.717975	118.585698	
0.14082	6.811448	139.183421	1.214852
0.004103	0.309475	126.028886	
0.28164	6.811448	139.183421	1.214852
0.004103	0.180288	133.954797	
0.42247	6.811448	139.183421	1.214852
0.004103	0.462405	154.420543	
0.56329	6.811448	139.183421	1.214852
0.004103	0.744425	183.998402	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.114989	-74.391557	-0.672761
-0.006077	-0.383842	-11.606379	
0.14082	-16.114989	-74.391557	-0.672761
-0.006077	-0.112496	-48.046407	
0.28164	-16.114989	-74.391557	-0.672761
-0.006077	-0.330983	-84.601063	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2826

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42247	-16.114989	-74.391557	-0.672761
-0.006077	-0.823978	-122.784408	
0.56329	-16.114989	-74.391557	-0.672761
-0.006077	-1.331296	-175.388706	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.758193	115.916947	1.358330
0.004090	0.790478	99.305836	
0.14082	8.758193	115.916947	1.358330
0.004090	0.221723	105.903674	
0.28164	8.758193	115.916947	1.358330
0.004090	0.198021	114.986327	
0.42247	8.758193	115.916947	1.358330
0.004090	0.506070	134.936330	
0.56329	8.758193	115.916947	1.358330
0.004090	0.814037	165.434507	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.789044	-79.092339	-0.734653
-0.005077	-0.417811	-31.919826	
0.14082	-13.789044	-79.092339	-0.734653
-0.005077	-0.118824	-55.939909	
0.28164	-13.789044	-79.092339	-0.734653
-0.005077	-0.373661	-80.841155	
0.42247	-13.789044	-79.092339	-0.734653
-0.005077	-0.928507	-108.135700	
0.56329	-13.789044	-79.092339	-0.734653
-0.005077	-1.497254	-148.204237	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.151323	64.156054	0.543930
0.005048	0.326713	129.524612	
0.14082	4.151323	64.156054	0.543930
0.005048	0.099600	122.521746	
0.28164	4.151323	64.156054	0.543930
0.005048	0.042387	115.841915	
0.42247	4.151323	64.156054	0.543930
0.005048	0.109492	124.487214	
0.56329	4.151323	64.156054	0.543930
0.005048	0.176581	144.353554	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.344374	-52.128348	-0.160011
-0.005357	-0.091713	-0.661937	
0.14082	-4.344374	-52.128348	-0.160011
-0.005357	-0.038159	-0.627017	
0.28164	-4.344374	-52.128348	-0.160011
-0.005357	-0.149526	-0.605847	
0.42247	-4.344374	-52.128348	-0.160011
-0.005357	-0.358648	-2.589816	
0.56329	-4.344374	-52.128348	-0.160011
-0.005357	-0.585392	-22.314901	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.856721	59.571736	1.006077
0.005008	0.584559	133.767897	
0.14082	8.856721	59.571736	1.006077
0.005008	0.163648	141.669092	
0.28164	8.856721	59.571736	1.006077
0.005008	0.087359	152.974002	
0.42247	8.856721	59.571736	1.006077
0.005008	0.223748	179.027135	
0.56329	8.856721	59.571736	1.006077
0.005008	0.360045	215.630157	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.559809	-93.050089	-0.325130
-0.005107	-0.185116	-9.612251	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2827

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14082	-4.559809	-93.050089	-0.325130
-0.005107	-0.061355	-5.940961	
0.28164	-4.559809	-93.050089	-0.325130
-0.005107	-0.277814	-3.291740	
0.42247	-4.559809	-93.050089	-0.325130
-0.005107	-0.681950	-3.837461	
0.56329	-4.559809	-93.050089	-0.325130
-0.005107	-1.102512	-21.696074	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.345478	118.743325	1.257179
0.003606	0.730407	126.278224	
0.14082	8.345478	118.743325	1.257179
0.003606	0.204008	121.784977	
0.28164	8.345478	118.743325	1.257179
0.003606	0.157180	137.198731	
0.42247	8.345478	118.743325	1.257179
0.003606	0.402727	163.187327	
0.56329	8.345478	118.743325	1.257179
0.003606	0.648185	196.667787	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.264752	-84.196770	-0.585536
-0.004884	-0.333623	-9.330280	
0.14082	-12.264752	-84.196770	-0.585536
-0.004884	-0.096960	-17.855637	
0.28164	-12.264752	-84.196770	-0.585536
-0.004884	-0.337162	-47.467739	
0.42247	-12.264752	-84.196770	-0.585536
-0.004884	-0.851648	-79.594021	
0.56329	-12.264752	-84.196770	-0.585536
-0.004884	-1.377773	-124.134935	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.044015	99.154852	1.402717
0.003738	0.804551	105.617409	
0.14082	10.044015	99.154852	1.402717
0.003738	0.217045	101.819036	
0.28164	10.044015	99.154852	1.402717
0.003738	0.183519	114.150723	
0.42247	10.044015	99.154852	1.402717
0.003738	0.468755	135.276667	
0.56329	10.044015	99.154852	1.402717
0.003738	0.753898	164.264505	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.321920	-82.742645	-0.680208
-0.004079	-0.386657	-33.197828	
0.14082	-10.321920	-82.742645	-0.680208
-0.004079	-0.108840	-35.434647	
0.28164	-10.321920	-82.742645	-0.680208
-0.004079	-0.382824	-55.139599	
0.42247	-10.321920	-82.742645	-0.680208
-0.004079	-0.960354	-76.833185	
0.56329	-10.321920	-82.742645	-0.680208
-0.004079	-1.547631	-108.997323	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.973545	0.420314	0.554743
0.001176	0.304662	0.962811	
0.14082	4.973545	0.420314	0.554743
0.001176	0.072128	1.114197	
0.28164	4.973545	0.420314	0.554743
0.001176	0.083586	1.391895	
0.42247	4.973545	0.420314	0.554743
0.001176	0.211954	1.765785	
0.56329	4.973545	0.420314	0.554743
0.001176	0.340318	2.126311	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2828

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.131207	-17.536841	-0.306216
-1.26E-05	-0.173141	-40.788559	
0.14082	-0.131207	-17.536841	-0.306216
-1.26E-05	-0.044704	-34.098422	
0.28164	-0.131207	-17.536841	-0.306216
-1.26E-05	-0.160462	-27.700066	
0.42247	-0.131207	-17.536841	-0.306216
-1.26E-05	-0.392981	-21.415226	
0.56329	-0.131207	-17.536841	-0.306216
-1.26E-05	-0.625525	-15.349042	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.849372	2.623770	0.964300
0.002072	0.534543	7.460063	
0.14082	8.849372	2.623770	0.964300
0.002072	0.130405	10.167838	
0.28164	8.849372	2.623770	0.964300
0.002072	0.131958	17.567289	
0.42247	8.849372	2.623770	0.964300
0.002072	0.333830	26.337648	
0.56329	8.849372	2.623770	0.964300
0.002072	0.535698	35.690474	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.882216	-44.566533	-0.481555
-0.000304	-0.271775	-58.565151	
0.14082	-0.882216	-44.566533	-0.481555
-0.000304	-0.070342	-45.514275	
0.28164	-0.882216	-44.566533	-0.481555
-0.000304	-0.274818	-34.364851	
0.42247	-0.882216	-44.566533	-0.481555
-0.000304	-0.678269	-25.032245	
0.56329	-0.882216	-44.566533	-0.481555
-0.000304	-1.082452	-17.615249	

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	12.414523	4.970231	1.313737
0.001770	0.731987	56.978287	
0.14082	12.414523	4.970231	1.313737
0.001770	0.181300	85.184890	
0.28164	12.414523	4.970231	1.313737
0.001770	0.151631	116.248926	
0.42247	12.414523	4.970231	1.313737
0.001770	0.385588	148.846769	
0.56329	12.414523	4.970231	1.313737
0.001770	0.619561	182.234614	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.998168	-99.773700	-0.558143
-0.000501	-0.316321	-50.047416	
0.14082	-0.998168	-99.773700	-0.558143
-0.000501	-0.082984	-39.691298	
0.28164	-0.998168	-99.773700	-0.558143
-0.000501	-0.370736	-30.291184	
0.42247	-0.998168	-99.773700	-0.558143
-0.000501	-0.920276	-22.244665	
0.56329	-0.998168	-99.773700	-0.558143
-0.000501	-1.470913	-16.178481	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	11.229261	87.699704	1.441255
0.004504	0.822117	118.552874	
0.14082	11.229261	87.699704	1.441255
0.004504	0.218615	111.244294	
0.28164	11.229261	87.699704	1.441255
0.004504	0.176663	118.380584	
0.42247	11.229261	87.699704	1.441255
0.004504	0.450914	137.632493	
0.56329	11.229261	87.699704	1.441255
0.004504	0.725082	165.148325	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2829

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-8.039538	-85.214729	-0.654032
-0.004266	-0.371582	-42.156541	
0.14082	-8.039538	-85.214729	-0.654032
-0.004266	-0.106080	-33.558264	
0.28164	-8.039538	-85.214729	-0.654032
-0.004266	-0.399629	-43.052032	
0.42247	-8.039538	-85.214729	-0.654032
-0.004266	-0.991439	-56.769749	
0.56329	-8.039538	-85.214729	-0.654032
-0.004266	-1.594770	-82.783946	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.494294	68.480529	0.967749
4.34E-06	0.572655	3.488593	
0.14082	0.494294	68.480529	0.967749
4.34E-06	0.169856	4.106380	
0.28164	0.494294	68.480529	0.967749
4.34E-06	0.226108	4.729374	
0.42247	0.494294	68.480529	0.967749
4.34E-06	0.578423	5.392191	
0.56329	0.494294	68.480529	0.967749
4.34E-06	0.931391	6.045791	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-10.670784	-1.604278	-0.842060
-0.001624	-0.480712	-31.470937	
0.14082	-10.670784	-1.604278	-0.842060
-0.001624	-0.127771	-59.986581	
0.28164	-10.670784	-1.604278	-0.842060
-0.001624	-0.237844	-88.493498	
0.42247	-10.670784	-1.604278	-0.842060
-0.001624	-0.643619	-116.998430	
0.56329	-10.670784	-1.604278	-0.842060
-0.001624	-1.049405	-145.521451	

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	2.167049	159.112951	1.789692
0.006012	1.064762	127.401575	
0.14082	2.167049	159.112951	1.789692
0.006012	0.318219	102.226932	
0.28164	2.167049	159.112951	1.789692
0.006012	0.303475	77.088298	
0.42247	2.167049	159.112951	1.789692
0.006012	0.778639	68.963656	
0.56329	2.167049	159.112951	1.789692
0.006012	1.259712	74.135712	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-17.127087	-19.670806	-1.140673
-0.008455	-0.655578	-20.714618	
0.14082	-17.127087	-19.670806	-1.140673
-0.008455	-0.199704	-55.987606	
0.28164	-17.127087	-19.670806	-1.140673
-0.008455	-0.461624	-91.327387	
0.42247	-17.127087	-19.670806	-1.140673
-0.008455	-1.193871	-129.306996	
0.56329	-17.127087	-19.670806	-1.140673
-0.008455	-1.941633	-193.036784	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	6.059605	131.037927	2.211347
0.004387	1.289856	131.656938	
0.14082	6.059605	131.037927	2.211347
0.004387	0.364768	134.123754	
0.28164	6.059605	131.037927	2.211347
0.004387	0.332804	136.980271	
0.42247	6.059605	131.037927	2.211347
0.004387	0.854817	151.969106	
0.56329	6.059605	131.037927	2.211347
0.004387	1.376457	176.453123	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2830

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-14.962146	-63.793996	-1.244698
-0.006474	-0.712401	-18.275003	
0.14082	-14.962146	-63.793996	-1.244698
-0.006474	-0.206614	-50.709203	
0.28164	-14.962146	-63.793996	-1.244698
-0.006474	-0.584349	-83.175552	
0.42247	-14.962146	-63.793996	-1.244698
-0.006474	-1.498720	-117.533691	
0.56329	-14.962146	-63.793996	-1.244698
-0.006474	-2.423731	-170.182655	

COMB DL-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	7.665153	109.127073	2.394480
0.004206	1.382993	110.114908	
0.14082	7.665153	109.127073	2.394480
0.004206	0.381099	112.624286	
0.28164	7.665153	109.127073	2.394480
0.004206	0.368473	117.151424	
0.42247	7.665153	109.127073	2.394480
0.004206	0.937736	132.484627	
0.56329	7.665153	109.127073	2.394480
0.004206	1.506641	158.406657	

COMB DL-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-12.842694	-70.685466	-1.358945
-0.005402	-0.773550	-37.154243	
0.14082	-12.842694	-70.685466	-1.358945
-0.005402	-0.217429	-57.392759	
0.28164	-12.842694	-70.685466	-1.358945
-0.005402	-0.641508	-79.438126	
0.42247	-12.842694	-70.685466	-1.358945
-0.005402	-1.634649	-103.058526	
0.56329	-12.842694	-70.685466	-1.358945
-0.005402	-2.636744	-143.912385	

COMB DL-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	3.509052	53.273728	0.866707
0.004212	0.500750	128.157688	
0.14082	3.509052	53.273728	0.866707
0.004212	0.140243	124.191020	
0.28164	3.509052	53.273728	0.866707
0.004212	0.067007	120.261899	
0.42247	3.509052	53.273728	0.866707
0.004212	0.174219	128.205469	
0.56329	3.509052	53.273728	0.866707
0.004212	0.281115	145.493427	

COMB DL-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-3.693948	-46.765784	-0.255233
-0.004675	-0.148709	-0.910598	
0.14082	-3.693948	-46.765784	-0.255233
-0.004675	-0.057292	-0.903430	
0.28164	-3.693948	-46.765784	-0.255233
-0.004675	-0.241882	-0.926353	
0.42247	-3.693948	-46.765784	-0.255233
-0.004675	-0.951784	-2.904725	
0.56329	-3.693948	-46.765784	-0.255233
-0.004675	-0.953549	-22.719493	

COMB DL-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	7.493600	50.675166	1.512151
0.004301	0.861948	136.485220	
0.14082	7.493600	50.675166	1.512151
0.004301	0.230491	144.733222	
0.28164	7.493600	50.675166	1.512151
0.004301	0.156802	155.790964	
0.42247	7.493600	50.675166	1.512151
0.004301	0.393031	178.991657	
0.56329	7.493600	50.675166	1.512151
0.004301	0.629172	211.435585	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2831

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-4.059964	-82.787234	-0.565729
-0.004553	-0.321950	-9.070034	
0.14082	-4.059964	-82.787234	-0.565729
-0.004553	-0.100133	-5.831413	
0.28164	-4.059964	-82.787234	-0.565729
-0.004553	-0.422313	-3.811029	
0.42247	-4.059964	-82.787234	-0.565729
-0.004553	-1.043322	-4.190179	
0.56329	-4.059964	-82.787234	-0.565729
-0.004553	-1.675277	-22.857522	

COMB DL-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	7.358833	104.084570	2.158773
0.002868	1.237835	129.974083	
0.14082	7.358833	104.084570	2.158773
0.002868	0.333571	125.207706	
0.28164	7.358833	104.084570	2.158773
0.002868	0.289040	139.633472	
0.42247	7.358833	104.084570	2.158773
0.002868	0.734895	163.207124	
0.56329	7.358833	104.084570	2.158773
0.002868	1.180657	192.655587	

COMB DL-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-10.842239	-74.902544	-1.065361
-0.004272	-0.607489	-9.505565	
0.14082	-10.842239	-74.902544	-1.065361
-0.004272	-0.171167	-15.402553	
0.28164	-10.842239	-74.902544	-1.065361
-0.004272	-0.581108	-42.059155	
0.42247	-10.842239	-74.902544	-1.065361
-0.004272	-1.478265	-71.273724	
0.56329	-10.842239	-74.902544	-1.065361
-0.004272	-2.381907	-112.863020	

COMB DL-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	8.935902	87.004001	2.413265
0.003140	1.373021	108.977268	
0.14082	8.935902	87.004001	2.413265
0.003140	0.362085	104.886453	
0.28164	8.935902	87.004001	2.413265
0.003140	0.331136	116.279081	
0.42247	8.935902	87.004001	2.413265
0.003140	0.841643	135.033556	
0.56329	8.935902	87.004001	2.413265
0.003140	1.352123	160.482333	

COMB DL-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-9.176281	-76.332169	-1.218764
-0.003572	-0.692320	-35.565508	
0.14082	-9.176281	-76.332169	-1.218764
-0.003572	-0.190098	-34.950888	
0.28164	-9.176281	-76.332169	-1.218764
-0.003572	-0.657999	-51.432707	
0.42247	-9.176281	-76.332169	-1.218764
-0.003572	-1.663087	-69.924378	
0.56329	-9.176281	-76.332169	-1.218764
-0.003572	-2.673627	-99.216039	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	4.591423	0.403967	0.994304
0.001259	0.549709	1.154667	
0.14082	4.591423	0.403967	0.994304
0.001259	0.133112	1.337765	
0.28164	4.591423	0.403967	0.994304
0.001259	0.139677	1.667836	
0.42247	4.591423	0.403967	0.994304
0.001259	0.352797	2.016154	
0.56329	4.591423	0.403967	0.994304
0.001259	0.565943	2.377935	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2832

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.149575	-19.177653	-0.508139
-1.03E-05	-0.285531	-45.774701	
0.14082	-0.149575	-19.177653	-0.508139
-1.03E-05	-0.072865	-38.257599	
0.28164	-0.149575	-19.177653	-0.508139
-1.03E-05	-0.284002	-30.927374	
0.42247	-0.149575	-19.177653	-0.508139
-1.03E-05	-0.700818	-23.628233	
0.56329	-0.149575	-19.177653	-0.508139
-1.03E-05	-1.117614	-16.451642	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	7.858525	1.787922	1.623852
0.002047	0.903197	6.747442	
0.14082	7.858525	1.787922	1.623852
0.002047	0.223071	10.363667	
0.28164	7.858525	1.787922	1.623852
0.002047	0.247038	18.112345	
0.42247	7.858525	1.787922	1.623852
0.002047	0.611317	27.320212	
0.56329	7.858525	1.787922	1.623852
0.002047	0.975579	37.291961	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.898608	-46.000652	-0.871878
-0.000236	-0.488248	-62.526655	
0.14082	-0.898608	-46.000652	-0.871878
-0.000236	-0.124159	-48.942072	
0.28164	-0.898608	-46.000652	-0.871878
-0.000236	-0.459202	-37.282493	
0.42247	-0.898608	-46.000652	-0.871878
-0.000236	-1.539584	-26.704169	
0.56329	-0.898608	-46.000652	-0.871878
-0.000236	-1.819950	-18.227988	

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	10.980094	1.394776	2.085908
0.001534	1.159493	62.456564	
0.14082	10.980094	1.394776	2.085908
0.001534	0.285143	88.997091	
0.28164	10.980094	1.394776	2.085908
0.001534	0.260351	118.278842	
0.42247	10.980094	1.394776	2.085908
0.001534	0.652712	148.427752	
0.56329	10.980094	1.394776	2.085908
0.001534	1.045112	178.945660	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.882021	-93.329617	-0.938227
-0.000181	-0.528003	-54.655189	
0.14082	-0.882021	-93.329617	-0.938227
-0.000181	-0.135168	-43.395738	
0.28164	-0.882021	-93.329617	-0.938227
-0.000181	-0.589593	-33.413724	
0.42247	-0.882021	-93.329617	-0.938227
-0.000181	-1.463852	-24.251536	
0.56329	-0.882021	-93.329617	-0.938227
-0.000181	-2.338172	-16.229798	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	9.998659	73.934884	2.446814
0.003650	1.381459	119.722801	
0.14082	9.998659	73.934884	2.446814
0.003650	0.339824	113.980543	
0.28164	9.998659	73.934884	2.446814
0.003650	0.312826	122.273901	
0.42247	9.998659	73.934884	2.446814
0.003650	0.791575	140.935050	
0.56329	9.998659	73.934884	2.446814
0.003650	1.270309	165.576468	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2833

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-6.950748	-79.886980	-1.143835
-0.003429	-0.648646	-46.405729	
0.14082	-6.950748	-79.886980	-1.143835
-0.003429	-0.178519	-37.056530	
0.28164	-6.950748	-79.886980	-1.143835
-0.003429	-0.678447	-42.883418	
0.42247	-6.950748	-79.886980	-1.143835
-0.003429	-1.696975	-53.595428	
0.56329	-6.950748	-79.886980	-1.143835
-0.003429	-2.721569	-75.852647	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	12.414523	170.501789	1.441255
0.006037	0.822117	133.767897	
0.14082	12.414523	170.501789	1.441255
0.006037	0.221723	141.669092	
0.28164	12.414523	170.501789	1.441255
0.006037	0.198021	152.974002	
0.42247	12.414523	170.501789	1.441255
0.006037	0.506070	179.027135	
0.56329	12.414523	170.501789	1.441255
0.006037	0.814037	215.630157	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-18.585641	-99.773700	-0.734653
-0.008191	-0.417811	-58.565151	
0.14082	-18.585641	-99.773700	-0.734653
-0.008191	-0.118824	-56.551564	
0.28164	-18.585641	-99.773700	-0.734653
-0.008191	-0.399629	-93.099376	
0.42247	-18.585641	-99.773700	-0.734653
-0.008191	-0.991439	-135.186747	
0.56329	-18.585641	-99.773700	-0.734653
-0.008191	-1.594770	-198.481797	

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	10.980094	159.112951	2.446814
0.006012	1.382993	136.485220	
0.14082	10.980094	159.112951	2.446814
0.006012	0.381099	144.733222	
0.28164	10.980094	159.112951	2.446814
0.006012	0.368473	155.790964	
0.42247	10.980094	159.112951	2.446814
0.006012	0.937736	178.991657	
0.56329	10.980094	159.112951	2.446814
0.006012	1.506641	211.435585	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-17.127087	-93.329617	-1.358945
-0.008455	-0.773550	-62.526655	
0.14082	-17.127087	-93.329617	-1.358945
-0.008455	-0.217429	-59.986581	
0.28164	-17.127087	-93.329617	-1.358945
-0.008455	-0.678447	-91.327387	
0.42247	-17.127087	-93.329617	-1.358945
-0.008455	-1.696975	-129.306996	
0.56329	-17.127087	-93.329617	-1.358945
-0.008455	-2.721569	-193.036784	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	12.414523	170.501789	2.446814
0.006037	1.382993	136.485220	
0.14082	12.414523	170.501789	2.446814
0.006037	0.381099	144.733222	
0.28164	12.414523	170.501789	2.446814
0.006037	0.368473	155.790964	
0.42247	12.414523	170.501789	2.446814
0.006037	0.937736	179.027135	
0.56329	12.414523	170.501789	2.446814
0.006037	1.506641	215.630157	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2834

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-18.585641	-99.773700	-1.358945
-0.008455	-0.773550	-62.526655	
0.14082	-18.585641	-99.773700	-1.358945
-0.008455	-0.217429	-59.986581	
0.28164	-18.585641	-99.773700	-1.358945
-0.008455	-0.678447	-93.099376	
0.42247	-18.585641	-99.773700	-1.358945
-0.008455	-1.696975	-135.186747	
0.56329	-18.585641	-99.773700	-1.358945
-0.008455	-2.721569	-198.481797	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	12.414523	170.501789	2.446814
0.006037	1.382993	136.485220	
0.14082	12.414523	170.501789	2.446814
0.006037	0.381099	144.733222	
0.28164	12.414523	170.501789	2.446814
0.006037	0.368473	155.790964	
0.42247	12.414523	170.501789	2.446814
0.006037	0.937736	179.027135	
0.56329	12.414523	170.501789	2.446814
0.006037	1.506641	215.630157	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-18.585641	-99.773700	-1.358945
-0.008455	-0.773550	-62.526655	
0.14082	-18.585641	-99.773700	-1.358945
-0.008455	-0.217429	-59.986581	
0.28164	-18.585641	-99.773700	-1.358945
-0.008455	-0.678447	-93.099376	
0.42247	-18.585641	-99.773700	-1.358945
-0.008455	-1.696975	-135.186747	
0.56329	-18.585641	-99.773700	-1.358945
-0.008455	-2.721569	-198.481797	

ELEM 262 ========== LENGTH = 2.977482

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43661	11.081937	48.462267	0.505805
1.63E-05	0.584041	55.862818	
0.57746	11.081937	48.462267	0.505805
1.63E-05	0.371931	35.684874	
0.71831	11.081937	48.462267	0.505805
1.63E-05	0.159823	15.545304	
0.85915	11.081937	48.462267	0.505805
1.63E-05	0.052216	2.772291	
1.00000	11.081937	48.462267	0.505805
1.63E-05	0.224962	2.817560	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43661	-1.869137	-8.694200	-0.411919
-0.001993	-0.466024	-25.087995	
0.57746	-1.869137	-8.694200	-0.411919
-0.001993	-0.293278	-21.710178	
0.71831	-1.869137	-8.694200	-0.411919
-0.001993	-0.120517	-18.630315	
0.85915	-1.869137	-8.694200	-0.411919
-0.001993	-0.054136	-16.689282	
1.00000	-1.869137	-8.694200	-0.411919
-0.001993	-0.264439	-27.079727	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43661	13.338700	74.915611	1.042627
0.005304	1.164685	131.889426	
0.57746	13.338700	74.915611	1.042627
0.005304	0.737012	102.087771	
0.71831	13.338700	74.915611	1.042627
0.005304	0.310439	85.096818	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2835

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.85915	13.338700	74.915611	1.042627
0.005304	0.086056	86.714475	
1.00000	13.338700	74.915611	1.042627
0.005304	0.316944	109.038205	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-9.821545	-92.169869	-0.581601
-0.008030	-0.656681	-59.952138	
0.57746	-9.821545	-92.169869	-0.581601
-0.008030	-0.414774	-29.169171	
0.71831	-9.821545	-92.169869	-0.581601
-0.008030	-0.170838	-18.736175	
0.85915	-9.821545	-92.169869	-0.581601
-0.008030	-0.148606	-15.010727	
1.00000	-9.821545	-92.169869	-0.581601
-0.008030	-0.584339	-17.557468	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.576624	69.869303	1.441346
0.004334	1.623258	133.263753	
0.57746	14.576624	69.869303	1.441346
0.004334	1.025322	105.567727	
0.71831	14.576624	69.869303	1.441346
0.004334	0.428161	86.962640	
0.85915	14.576624	69.869303	1.441346
0.004334	0.092068	82.133076	
1.00000	14.576624	69.869303	1.441346
0.004334	0.362824	100.318604	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-6.748400	-112.868585	-0.666434
-0.005933	-0.755096	-104.643987	
0.57746	-6.748400	-112.868585	-0.666434
-0.005933	-0.475614	-62.755771	
0.71831	-6.748400	-112.868585	-0.666434
-0.005933	-0.196022	-34.766059	
0.85915	-6.748400	-112.868585	-0.666434
-0.005933	-0.191253	-13.336151	
1.00000	-6.748400	-112.868585	-0.666434
-0.005933	-0.794698	-14.944989	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	18.918984	60.384722	1.599521
0.004291	1.803264	115.321611	
0.57746	18.918984	60.384722	1.599521
0.004291	1.137882	91.370690	
0.71831	18.918984	60.384722	1.599521
0.004291	0.473148	74.963946	
0.85915	18.918984	60.384722	1.599521
0.004291	0.097845	70.052719	
1.00000	18.918984	60.384722	1.599521
0.004291	0.391992	84.419355	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-7.449038	-101.285799	-0.718545
-0.004930	-0.813340	-113.996531	
0.57746	-7.449038	-101.285799	-0.718545
-0.004930	-0.512003	-76.654392	
0.71831	-7.449038	-101.285799	-0.718545
-0.004930	-0.210568	-51.166007	
0.85915	-7.449038	-101.285799	-0.718545
-0.004930	-0.210181	-31.891238	
1.00000	-7.449038	-101.285799	-0.718545
-0.004930	-0.880065	-31.613256	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.303109	7.930792	0.625699
0.004726	0.684650	41.887224	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2836

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57746	1.303109	7.930792	0.625699
0.004726	0.430263	40.307712	
0.71831	1.303109	7.930792	0.625699
0.004726	0.176785	49.937205	
0.85915	1.303109	7.930792	0.625699
0.004726	0.031503	76.275836	
1.00000	1.303109	7.930792	0.625699
0.004726	0.091821	112.943050	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-8.520325	-99.927331	-0.169751
-0.004880	-0.192929	-58.504920	
0.57746	-8.520325	-99.927331	-0.169751
-0.004880	-0.121740	-23.280585	
0.71831	-8.520325	-99.927331	-0.169751
-0.004880	-0.050519	-5.301531	
0.85915	-8.520325	-99.927331	-0.169751
-0.004880	-0.103800	-0.857438	
1.00000	-8.520325	-99.927331	-0.169751
-0.004880	-0.364950	-0.822079	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.847250	10.204814	1.159112
0.005256	1.269866	51.048084	
0.57746	8.847250	10.204814	1.159112
0.005256	0.811227	48.509824	
0.71831	8.847250	10.204814	1.159112
0.005256	0.333479	56.335668	
0.85915	8.847250	10.204814	1.159112
0.005256	0.051909	74.744888	
1.00000	8.847250	10.204814	1.159112
0.005256	0.183527	113.338658	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-6.252678	-124.380764	-0.337650
-0.004542	-0.382855	-108.462095	
0.57746	-6.252678	-124.380764	-0.337650
-0.004542	-0.241255	-62.869750	
0.71831	-6.252678	-124.380764	-0.337650
-0.004542	-0.099544	-33.426759	
0.85915	-6.252678	-124.380764	-0.337650
-0.004542	-0.169752	-12.033010	
1.00000	-6.252678	-124.380764	-0.337650
-0.004542	-0.654616	-10.952323	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.287352	68.789257	1.483947
0.003952	1.669667	158.063529	
0.57746	14.287352	68.789257	1.483947
0.003952	1.052627	130.642130	
0.71831	14.287352	68.789257	1.483947
0.003952	0.436269	110.700122	
0.85915	14.287352	68.789257	1.483947
0.003952	0.079720	102.429546	
1.00000	14.287352	68.789257	1.483947
0.003952	0.316588	104.003938	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-11.983101	-107.381908	-0.581401
-0.004397	-0.658677	-103.555877	
0.57746	-11.983101	-107.381908	-0.581401
-0.004397	-0.414855	-63.342563	
0.71831	-11.983101	-107.381908	-0.581401
-0.004397	-0.170922	-34.819949	
0.85915	-11.983101	-107.381908	-0.581401
-0.004397	-0.198180	-13.749428	
1.00000	-11.983101	-107.381908	-0.581401
-0.004397	-0.819705	-11.008070	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2837

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.471378	59.530841	1.643279
0.004000	1.850568	134.686949	
0.57746	14.471378	59.530841	1.643279
0.004000	1.165849	110.965736	
0.71831	14.471378	59.530841	1.643279
0.004000	0.481705	93.537384	
0.85915	14.471378	59.530841	1.643279
0.004000	0.089536	85.940620	
1.00000	14.471378	59.530841	1.643279
0.004000	0.362210	86.817506	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.632107	-93.289215	-0.664009
-0.003678	-0.751634	-107.721008	
0.57746	-12.632107	-93.289215	-0.664009
-0.003678	-0.473188	-72.392100	
0.71831	-12.632107	-93.289215	-0.664009
-0.003678	-0.194595	-47.884423	
0.85915	-12.632107	-93.289215	-0.664009
-0.003678	-0.217679	-28.882877	
1.00000	-12.632107	-93.289215	-0.664009
-0.003678	-0.906093	-25.683859	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.848928	3.531375	0.632574
0.001064	0.713648	4.003018	
0.57746	0.848928	3.531375	0.632574
0.001064	0.448377	2.697896	
0.71831	0.848928	3.531375	0.632574
0.001064	0.183107	1.498210	
0.85915	0.848928	3.531375	0.632574
0.001064	0.036502	1.091282	
1.00000	0.848928	3.531375	0.632574
0.001064	0.156123	1.071474	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-4.848421	-4.221368	-0.285015
-6.66E-06	-0.321999	-29.604044	
0.57746	-4.848421	-4.221368	-0.285015
-6.66E-06	-0.202480	-28.022642	
0.71831	-4.848421	-4.221368	-0.285015
-6.66E-06	-0.082944	-26.577140	
0.85915	-4.848421	-4.221368	-0.285015
-6.66E-06	-0.082249	-25.191262	
1.00000	-4.848421	-4.221368	-0.285015
-6.66E-06	-0.347483	-23.954319	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.181874	6.240273	1.105064
0.002004	1.247415	11.933934	
0.57746	11.181874	6.240273	1.105064
0.002004	0.784295	9.534214	
0.71831	11.181874	6.240273	1.105064
0.002004	0.321214	7.650286	
0.85915	11.181874	6.240273	1.105064
0.002004	0.058754	6.614869	
1.00000	11.181874	6.240273	1.105064
0.002004	0.248730	6.699369	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-6.385826	-21.354247	-0.453955
-0.000188	-0.512761	-68.587277	
0.57746	-6.385826	-21.354247	-0.453955
-0.000188	-0.322386	-60.924606	
0.71831	-6.385826	-21.354247	-0.453955
-0.000188	-0.131951	-54.333954	
0.85915	-6.385826	-21.354247	-0.453955
-0.000188	-0.143089	-48.863055	
1.00000	-6.385826	-21.354247	-0.453955
-0.000188	-0.606334	-44.393924	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2838

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.550142	7.806204	1.510063
0.002439	1.704990	32.051675	
0.57746	8.550142	7.806204	1.510063
0.002439	1.072212	29.783800	
0.71831	8.550142	7.806204	1.510063
0.002439	0.439510	28.812022	
0.85915	8.550142	7.806204	1.510063
0.002439	0.060571	28.894920	
1.00000	8.550142	7.806204	1.510063
0.002439	0.297941	43.425607	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-6.709117	-73.836927	-0.545640
-0.000299	-0.617344	-114.729784	
0.57746	-6.709117	-73.836927	-0.545640
-0.000299	-0.388518	-85.093178	
0.71831	-6.709117	-73.836927	-0.545640
-0.000299	-0.159573	-57.408027	
0.85915	-6.709117	-73.836927	-0.545640
-0.000299	-0.195104	-36.641807	
1.00000	-6.709117	-73.836927	-0.545640
-0.000299	-0.828187	-34.405624	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	10.681731	48.858072	1.676078
0.004639	1.882050	121.988042	
0.57746	10.681731	48.858072	1.676078
0.004639	1.184377	102.994409	
0.71831	10.681731	48.858072	1.676078
0.004639	0.487336	91.370832	
0.85915	10.681731	48.858072	1.676078
0.004639	0.087334	90.951208	
1.00000	10.681731	48.858072	1.676078
0.004639	0.347876	98.963391	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-14.808101	-96.866225	-0.637746
-0.003743	-0.721913	-108.752246	
0.57746	-14.808101	-96.866225	-0.637746
-0.003743	-0.454462	-73.069609	
0.71831	-14.808101	-96.866225	-0.637746
-0.003743	-0.186897	-48.817108	
0.85915	-14.808101	-96.866225	-0.637746
-0.003743	-0.227660	-31.176791	
1.00000	-14.808101	-96.866225	-0.637746
-0.003743	-0.929610	-29.296802	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.446656	40.231034	1.059710
1.27E-05	1.216516	46.673236	
0.57746	14.446656	40.231034	1.059710
1.27E-05	0.771918	30.243151	
0.71831	14.446656	40.231034	1.059710
1.27E-05	0.326785	14.224504	
0.85915	14.446656	40.231034	1.059710
1.27E-05	0.103633	3.440934	
1.00000	14.446656	40.231034	1.059710
1.27E-05	0.446957	3.566006	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-3.642562	-8.095984	-0.820013
-0.002223	-0.928599	-26.176902	
0.57746	-3.642562	-8.095984	-0.820013
-0.002223	-0.584716	-23.260382	
0.71831	-3.642562	-8.095984	-0.820013
-0.002223	-0.240831	-20.831120	
0.85915	-3.642562	-8.095984	-0.820013
-0.002223	-0.116638	-21.778619	
1.00000	-3.642562	-8.095984	-0.820013
-0.002223	-0.560139	-32.579596	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2839

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	17.509854	62.145441	1.997353
0.005857	2.252668	113.645885	
0.57746	17.509854	62.145441	1.997353
0.005857	1.423809	90.524829	
0.71831	17.509854	62.145441	1.997353
0.005857	0.594038	81.033068	
0.85915	17.509854	62.145441	1.997353
0.005857	0.160206	89.645332	
1.00000	17.509854	62.145441	1.997353
0.005857	0.610471	113.859437	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.973953	-86.992459	-1.120246
-0.008067	-1.270233	-63.121078	
0.57746	-12.973953	-86.992459	-1.120246
-0.008067	-0.800516	-29.355912	
0.71831	-12.973953	-86.992459	-1.120246
-0.008067	-0.330666	-20.603047	
0.85915	-12.973953	-86.992459	-1.120246
-0.008067	-0.764391	-17.833945	
1.00000	-12.973953	-86.992459	-1.120246
-0.008067	-1.098458	-24.918067	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	18.782019	57.790106	2.523389
0.004826	2.852203	115.942125	
0.57746	18.782019	57.790106	2.523389
0.004826	1.800325	94.496374	
0.71831	18.782019	57.790106	2.523389
0.004826	0.747791	83.243980	
0.85915	18.782019	57.790106	2.523389
0.004826	0.169568	86.455086	
1.00000	18.782019	57.790106	2.523389
0.004826	0.674795	110.192952	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-11.069606	-100.714853	-1.238208
-0.006183	-1.403244	-95.328904	
0.57746	-11.069606	-100.714853	-1.238208
-0.006183	-0.884102	-55.548456	
0.71831	-11.069606	-100.714853	-1.238208
-0.006183	-0.364665	-33.938818	
0.85915	-11.069606	-100.714853	-1.238208
-0.006183	-0.325463	-17.111934	
1.00000	-11.069606	-100.714853	-1.238208
-0.006183	-1.381328	-22.704984	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	20.638788	50.011593	2.722018
0.004751	3.077374	100.350777	
0.57746	20.638788	50.011593	2.722018
0.004751	1.941121	81.725003	
0.71831	20.638788	50.011593	2.722018
0.004751	0.804278	71.582615	
0.85915	20.638788	50.011593	2.722018
0.004751	0.182723	73.524272	
1.00000	20.638788	50.011593	2.722018
0.004751	0.734512	92.609638	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-11.162365	-89.949205	-1.343739
-0.005140	-1.520758	-104.004405	
0.57746	-11.162365	-89.949205	-1.343739
-0.005140	-0.957348	-68.410735	
0.71831	-11.162365	-89.949205	-1.343739
-0.005140	-0.393690	-48.160168	
0.85915	-11.162365	-89.949205	-1.343739
-0.005140	-0.349998	-32.502885	
1.00000	-11.162365	-89.949205	-1.343739
-0.005140	-1.489356	-35.691563	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2840

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	2.421808	7.578737	0.996515
0.004366	1.107615	41.508537	
0.57746	2.421808	7.578737	0.996515
0.004366	0.695875	41.159560	
0.71831	2.421808	7.578737	0.996515
0.004366	0.284212	51.073787	
0.85915	2.421808	7.578737	0.996515
0.004366	0.046423	76.725685	
1.00000	2.421808	7.578737	0.996515
0.004366	0.144366	108.219627	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-9.190169	-84.750273	-0.264787
-0.004017	-0.301125	-53.632695	
0.57746	-9.190169	-84.750273	-0.264787
-0.004017	-0.190135	-20.493125	
0.71831	-9.190169	-84.750273	-0.264787
-0.004017	-0.078938	-5.384859	
0.85915	-9.190169	-84.750273	-0.264787
-0.004017	-0.149709	-0.999142	
1.00000	-9.190169	-84.750273	-0.264787
-0.004017	-0.564897	-1.019229	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.725931	9.653969	1.760734
0.005033	1.973229	50.523701	
0.57746	8.725931	9.653969	1.760734
0.005033	1.240974	49.164052	
0.71831	8.725931	9.653969	1.760734
0.005033	0.508310	57.574290	
0.85915	8.725931	9.653969	1.760734
0.005033	0.088535	80.123804	
1.00000	8.725931	9.653969	1.760734
0.005033	0.318430	112.654650	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-7.533378	-103.762437	-0.579041
-0.003774	-0.655118	-93.161209	
0.57746	-7.533378	-103.762437	-0.579041
-0.003774	-0.412392	-52.055212	
0.71831	-7.533378	-103.762437	-0.579041
-0.003774	-0.169550	-29.328709	
0.85915	-7.533378	-103.762437	-0.579041
-0.003774	-0.246268	-10.849422	
1.00000	-7.533378	-103.762437	-0.579041
-0.003774	-0.982111	-9.762263	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	15.685387	59.980169	2.479494
0.003557	2.801158	144.289816	
0.57746	15.685387	59.980169	2.479494
0.003557	1.764995	121.262152	
0.71831	15.685387	59.980169	2.479494
0.003557	0.728581	104.864471	
0.85915	15.685387	59.980169	2.479494
0.003557	0.143552	98.754776	
1.00000	15.685387	59.980169	2.479494
0.003557	0.581424	101.882713	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.850665	-87.512306	-1.063905
-0.003750	-1.204932	-88.587574	
0.57746	-12.850665	-87.512306	-1.063905
-0.003750	-0.758796	-53.763336	
0.71831	-12.850665	-87.512306	-1.063905
-0.003750	-0.312524	-30.522454	
0.85915	-12.850665	-87.512306	-1.063905
-0.003750	-0.320020	-13.038970	
1.00000	-12.850665	-87.512306	-1.063905
-0.003750	-1.358094	-10.559227	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2841

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	15.221435	51.993169	2.746094
0.003736	3.102405	123.008199	
0.57746	15.221435	51.993169	2.746094
0.003736	1.953923	103.044565	
0.71831	15.221435	51.993169	2.746094
0.003736	0.805028	88.683792	
0.85915	15.221435	51.993169	2.746094
0.003736	0.160562	82.921603	
1.00000	15.221435	51.993169	2.746094
0.003736	0.660219	85.220438	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-13.516067	-76.322797	-1.208220
-0.003140	-1.367178	-94.874556	
0.57746	-13.516067	-76.322797	-1.208220
-0.003140	-0.860480	-64.526524	
0.71831	-13.516067	-76.322797	-1.208220
-0.003140	-0.353572	-43.918428	
0.85915	-13.516067	-76.322797	-1.208220
-0.003140	-0.353891	-27.908360	
1.00000	-13.516067	-76.322797	-1.208220
-0.003140	-1.504235	-25.014569	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.304561	3.322942	1.089928
0.001155	1.230059	3.722427	
0.57746	1.304561	3.322942	1.089928
0.001155	0.716932	2.580065	
0.71831	1.304561	3.322942	1.089928
0.001155	0.315817	1.701311	
0.85915	1.304561	3.322942	1.089928
0.001155	0.063427	1.290730	
1.00000	1.304561	3.322942	1.089928
0.001155	0.269772	1.169730	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-5.387977	-4.347267	-0.492980
-3.85E-06	-0.556413	-29.275687	
0.57746	-5.387977	-4.347267	-0.492980
-3.85E-06	-0.349527	-27.739298	
0.71831	-5.387977	-4.347267	-0.492980
-3.85E-06	-0.142661	-26.383702	
0.85915	-5.387977	-4.347267	-0.492980
-3.85E-06	-0.141272	-25.217355	
1.00000	-5.387977	-4.347267	-0.492980
-3.85E-06	-0.598351	-24.448184	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.297442	5.677521	1.809723
0.002133	2.044238	11.112789	
0.57746	9.297442	5.677521	1.809723
0.002133	1.285441	9.050174	
0.71831	9.297442	5.677521	1.809723
0.002133	0.526842	7.391214	
0.85915	9.297442	5.677521	1.809723
0.002133	0.113503	6.350528	
1.00000	9.297442	5.677521	1.809723
0.002133	0.468567	6.248152	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-7.084381	-18.744309	-0.848789
-0.000117	-0.955901	-63.847220	
0.57746	-7.084381	-18.744309	-0.848789
-0.000117	-0.599964	-56.585845	
0.71831	-7.084381	-18.744309	-0.848789
-0.000117	-0.244343	-50.479756	
0.85915	-7.084381	-18.744309	-0.848789
-0.000117	-0.233571	-45.686566	
1.00000	-7.084381	-18.744309	-0.848789
-0.000117	-0.991848	-41.666182	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.333149	6.985457	2.378158
0.002246	2.685892	31.048884	
0.57746	8.333149	6.985457	2.378158
0.002246	1.688380	29.500469	
0.71831	8.333149	6.985457	2.378158
0.002246	0.691117	29.061273	
0.85915	8.333149	6.985457	2.378158
0.002246	0.120805	32.680352	
1.00000	8.333149	6.985457	2.378158
0.002246	0.512185	45.833704	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-8.058673	-59.629780	-0.933574
-6.49E-06	-1.054272	-99.157436	
0.57746	-8.058673	-59.629780	-0.933574
-6.49E-06	-0.662734	-75.393841	
0.71831	-8.058673	-59.629780	-0.933574
-6.49E-06	-0.271226	-52.711107	
0.85915	-8.058673	-59.629780	-0.933574
-6.49E-06	-0.306498	-36.469079	
1.00000	-8.058673	-59.629780	-0.933574
-6.49E-06	-1.303601	-34.448929	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.653986	44.055715	2.774848
0.004146	3.128749	114.842934	
0.57746	11.653986	44.055715	2.774848
0.004146	1.968378	96.507023	
0.71831	11.653986	44.055715	2.774848
0.004146	0.808007	88.302455	
0.85915	11.653986	44.055715	2.774848
0.004146	0.152817	87.783273	
1.00000	11.653986	44.055715	2.774848
0.004146	0.620799	95.406423	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-15.263102	-78.004427	-1.134268
-0.002880	-1.282930	-95.886197	
0.57746	-15.263102	-78.004427	-1.134268
-0.002880	-0.862211	-65.225689	
0.71831	-15.263102	-78.004427	-1.134268
-0.002880	-0.331567	-45.168192	
0.85915	-15.263102	-78.004427	-1.134268
-0.002880	-0.364019	-31.287197	
1.00000	-15.263102	-78.004427	-1.134268
-0.002880	-1.526271	-29.602953	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	18.919884	74.915611	1.676078
0.005304	1.870100	158.063529	
0.57746	18.919884	74.915611	1.676078
0.005304	1.184377	130.642130	
0.71831	18.919884	74.915611	1.676078
0.005304	0.487336	110.700122	
0.85915	18.919884	74.915611	1.676078
0.005304	0.097845	102.429546	
1.00000	18.919884	74.915611	1.676078
0.005304	0.391992	113.338658	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-14.808101	-124.380764	-0.718545
-0.008030	-0.813340	-114.729784	
0.57746	-14.808101	-124.380764	-0.718545
-0.008030	-0.512003	-85.093178	
0.71831	-14.808101	-124.380764	-0.718545
-0.008030	-0.210568	-57.408027	
0.85915	-14.808101	-124.380764	-0.718545
-0.008030	-0.227660	-48.863055	
1.00000	-14.808101	-124.380764	-0.718545
-0.008030	-0.929610	-44.393924	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	20.638788	62.145441	2.774848
0.005857	3.128749	144.289816	
0.57746	20.638788	62.145441	2.774848
0.005857	1.968378	121.262152	
0.71831	20.638788	62.145441	2.774848
0.005857	0.808007	104.864471	
0.85915	20.638788	62.145441	2.774848
0.005857	0.182723	98.754776	
1.00000	20.638788	62.145441	2.774848
0.005857	0.734512	113.859437	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-15.263102	-103.762437	-1.343739
-0.008067	-1.520758	-140.000405	
0.57746	-15.263102	-103.762437	-1.343739
-0.008067	-0.957348	-75.393841	
0.71831	-15.263102	-103.762437	-1.343739
-0.008067	-0.393690	-52.711107	
0.85915	-15.263102	-103.762437	-1.343739
-0.008067	-0.364019	-45.686566	
1.00000	-15.263102	-103.762437	-1.343739
-0.008067	-1.526271	-41.666182	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	20.638788	74.915611	2.774848
0.005857	3.128749	158.063529	
0.57746	20.638788	74.915611	2.774848
0.005857	1.968378	130.642130	
0.71831	20.638788	74.915611	2.774848
0.005857	0.808007	110.700122	
0.85915	20.638788	74.915611	2.774848
0.005857	0.182723	102.429546	
1.00000	20.638788	74.915611	2.774848
0.005857	0.734512	113.859437	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-15.263102	-124.380764	-1.343739
-0.008067	-1.520758	-114.729784	
0.57746	-15.263102	-124.380764	-1.343739
-0.008067	-0.957348	-85.093178	
0.71831	-15.263102	-124.380764	-1.343739
-0.008067	-0.393690	-57.408027	
0.85915	-15.263102	-124.380764	-1.343739
-0.008067	-0.364019	-48.863055	
1.00000	-15.263102	-124.380764	-1.343739
-0.008067	-1.526271	-44.393924	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	20.638788	74.915611	2.774848
0.005857	3.128749	158.063529	
0.57746	20.638788	74.915611	2.774848
0.005857	1.968378	130.642130	
0.71831	20.638788	74.915611	2.774848
0.005857	0.808007	110.700122	
0.85915	20.638788	74.915611	2.774848
0.005857	0.182723	102.429546	
1.00000	20.638788	74.915611	2.774848
0.005857	0.734512	113.859437	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-15.263102	-124.380764	-1.343739
-0.008067	-1.520758	-114.729784	
0.57746	-15.263102	-124.380764	-1.343739
-0.008067	-0.957348	-85.093178	
0.71831	-15.263102	-124.380764	-1.343739
-0.008067	-0.393690	-57.408027	
0.85915	-15.263102	-124.380764	-1.343739
-0.008067	-0.364019	-48.863055	
1.00000	-15.263102	-124.380764	-1.343739
-0.008067	-1.526271	-44.393924	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 263 ========== LENGTH = 2.977542

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.102780	47.631218	0.456092
7.09E-06	0.260350	2.816652	
0.14085	11.102780	47.631218	0.456092
7.09E-06	0.069083	3.452915	
0.28170	11.102780	47.631218	0.456092
7.09E-06	0.117225	4.115605	
0.42255	11.102780	47.631218	0.456092
7.09E-06	0.290931	4.801667	
0.56340	11.102780	47.631218	0.456092
7.09E-06	0.464637	6.240203	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.870188	-8.876337	-0.414191
-0.002052	-0.230186	-27.109145	
0.14085	-1.870108	-8.876337	-0.414191
-0.002052	-0.056437	-46.353884	
0.28170	-1.870108	-8.876337	-0.414191
-0.002052	-0.122234	-66.000345	
0.42255	-1.870108	-8.876337	-0.414191
-0.002052	-0.313489	-85.928962	
0.56340	-1.870108	-8.876337	-0.414191
-0.002052	-0.504763	-105.884253	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.355397	138.385245	0.998948
0.005514	0.583842	109.413788	
0.14085	13.355397	138.385245	0.998948
0.005514	0.166018	86.072094	
0.28170	13.355397	138.385245	0.998948
0.005514	0.165321	63.185403	
0.42255	13.355397	138.385245	0.998948
0.005514	0.410562	60.152846	
0.56340	13.355397	138.385245	0.998948
0.005514	0.655791	71.431291	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.844047	-30.982177	-0.584734
-0.008149	-0.325126	-17.594901	
0.14085	-14.844047	-30.982177	-0.584734
-0.008149	-0.095016	-44.221346	
0.28170	-14.844047	-30.982177	-0.584734
-0.008149	-0.277017	-71.673971	
0.42255	-14.844047	-30.982177	-0.584734
-0.008149	-0.676251	-103.746913	
0.56340	-14.844047	-30.982177	-0.584734
-0.008149	-1.091985	-155.847600	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.693838	112.598538	1.413916
0.003904	0.802134	100.549776	
0.14085	14.693838	112.598538	1.413916
0.003904	0.209895	100.499821	
0.28170	14.693838	112.598538	1.413916
0.003904	0.189959	107.954793	
0.42255	14.693838	112.598538	1.413916
0.003904	0.471444	126.574198	
0.56340	14.693838	112.598538	1.413916
0.003904	0.752884	155.788082	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.159719	-72.214566	-0.671077
-0.006027	-0.372865	-41.978510	
0.14085	-10.159719	-72.214566	-0.671077
-0.006027	-0.101649	-39.585337	
0.28170	-10.159719	-72.214566	-0.671077
-0.006027	-0.399484	-64.993325	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42255	-10.159719	-72.214566	-0.671077
-0.006027	-0.979028	-93.537380	
0.56340	-10.159719	-72.214566	-0.671077
-0.006027	-1.569804	-135.676762	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	19.031876	95.815495	1.597193
0.004156	0.897568	84.608245	
0.14085	19.031876	95.815495	1.597193
0.004156	0.228328	86.756537	
0.28170	19.031876	95.815495	1.597193
0.004156	0.205991	91.335516	
0.42255	19.031876	95.815495	1.597193
0.004156	0.510686	108.493753	
0.56340	19.031876	95.815495	1.597193
0.004156	0.815338	134.618720	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.282684	-67.729542	-0.726425
-0.005009	-0.403254	-31.649067	
0.14085	-10.282684	-67.729542	-0.726425
-0.005009	-0.107036	-50.755166	
0.28170	-10.282684	-67.729542	-0.726425
-0.005009	-0.455112	-70.846269	
0.42255	-10.282684	-67.729542	-0.726425
-0.005009	-1.113805	-93.839214	
0.56340	-10.282684	-67.729542	-0.726425
-0.005009	-1.781820	-128.374485	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.296473	61.972894	0.644145
0.004609	0.373718	113.243193	
0.14085	1.296473	61.972894	0.644145
0.004609	0.104565	105.837816	
0.28170	1.296473	61.972894	0.644145
0.004609	0.048240	98.858108	
0.42255	1.296473	61.972894	0.644145
0.004609	0.119867	108.865136	
0.56340	1.296473	61.972894	0.644145
0.004609	0.191462	128.429863	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.699000	-49.051992	-0.170714
-0.004887	-0.094913	0.821911	
0.14085	-12.699000	-49.051992	-0.170714
-0.004887	-0.036003	-0.805405	
0.28170	-12.699000	-49.051992	-0.170714
-0.004887	-0.185671	-0.801855	
0.42255	-12.699000	-49.051992	-0.170714
-0.004887	-0.439400	-4.652666	
0.56340	-12.699000	-49.051992	-0.170714
-0.004887	-0.706895	-25.274800	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.964014	60.376315	1.192400
0.004863	0.672949	113.602888	
0.14085	8.964014	60.376315	1.192400
0.004863	0.173727	115.757682	
0.28170	8.964014	60.376315	1.192400
0.004863	0.096931	121.080524	
0.42255	8.964014	60.376315	1.192400
0.004863	0.240066	143.551118	
0.56340	8.964014	60.376315	1.192400
0.004863	0.383149	175.087745	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.158992	-77.695183	-0.341174
-0.004404	-0.189162	-10.956106	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	-10.158992	-77.695183	-0.341174
-0.004404	-0.057834	-9.986129	
0.28170	-10.158992	-77.695183	-0.341174
-0.004404	-0.344971	-9.358605	
0.42255	-10.158992	-77.695183	-0.341174
-0.004404	-0.829767	-12.590137	
0.56340	-10.158992	-77.695183	-0.341174
-0.004404	-1.327376	-31.660083	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.409487	103.150827	1.480239
0.003553	0.830676	104.160792	
0.14085	14.409487	103.150827	1.480239
0.003553	0.210673	100.040710	
0.28170	14.409487	103.150827	1.480239
0.003553	0.166136	109.444106	
0.42255	14.409487	103.150827	1.480239
0.003553	0.412169	133.466893	
0.56340	14.409487	103.150827	1.480239
0.003553	0.658144	163.946138	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.713904	-74.825941	-0.586513
-0.004719	-0.325736	-11.018120	
0.14085	-14.713904	-74.825941	-0.586513
-0.004719	-0.086025	-19.843703	
0.28170	-14.713904	-74.825941	-0.586513
-0.004719	-0.423581	-44.286711	
0.42255	-14.713904	-74.825941	-0.586513
-0.004719	-1.033459	-71.509009	
0.56340	-14.713904	-74.825941	-0.586513
-0.004719	-1.652504	-109.996837	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.578976	88.331754	1.667381
0.003958	0.929114	86.949054	
0.14085	14.578976	88.331754	1.667381
0.003958	0.230493	83.501580	
0.28170	14.578976	88.331754	1.667381
0.003958	0.190998	91.148873	
0.42255	14.578976	88.331754	1.667381
0.003958	0.473615	111.137874	
0.56340	14.578976	88.331754	1.667381
0.003958	0.756169	136.527407	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.926202	-66.037204	-0.673732
-0.003946	-0.374031	-25.698934	
0.14085	-14.926202	-66.037204	-0.673732
-0.003946	-0.098303	-32.149629	
0.28170	-14.926202	-66.037204	-0.673732
-0.003946	-0.480062	-51.723063	
0.42255	-14.926202	-66.037204	-0.673732
-0.003946	-1.170196	-73.853627	
0.56340	-14.926202	-66.037204	-0.673732
-0.003946	-1.868009	-105.060758	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.849128	3.639586	0.680103
0.001602	0.370727	1.071804	
0.14085	0.849128	3.639586	0.680103
0.001602	0.085490	1.104565	
0.28170	0.849128	3.639586	0.680103
0.001602	0.083472	1.280122	
0.42255	0.849128	3.639586	0.680103
0.001602	0.206854	1.550982	
0.56340	0.849128	3.639586	0.680103
0.001602	0.330224	2.221972	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.865067	-4.120512	-0.294167
-1.05E-05	-0.163254	-23.963761	
0.14085	-4.865067	-4.120512	-0.294167
-1.05E-05	-0.039790	-22.966463	
0.28170	-4.865067	-4.120512	-0.294167
-1.05E-05	-0.199748	-22.043367	
0.42255	-4.865067	-4.120512	-0.294167
-1.05E-05	-0.484952	-21.275744	
0.56340	-4.865067	-4.120512	-0.294167
-1.05E-05	-0.770174	-20.584877	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.205351	8.300733	1.170048
0.002708	0.639980	6.704195	
0.14085	11.205351	8.300733	1.170048
0.002708	0.149301	6.805807	
0.28170	11.205351	8.300733	1.170048
0.002708	0.132664	9.993982	
0.42255	11.205351	8.300733	1.170048
0.002708	0.328320	15.349964	
0.56340	11.205351	8.300733	1.170048
0.002708	0.523925	21.456416	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.559262	-19.706413	-0.466408
-0.000217	-0.258479	-44.412519	
0.14085	-6.559262	-19.706413	-0.466408
-0.000217	-0.063150	-41.232751	
0.28170	-6.559262	-19.706413	-0.466408
-0.000217	-0.342157	-38.177875	
0.42255	-6.559262	-19.706413	-0.466408
-0.000217	-0.832227	-36.799916	
0.56340	-6.559262	-19.706413	-0.466408
-0.000217	-1.322627	-36.701100	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.665570	10.913215	1.582639
0.002415	0.866466	43.410992	
0.14085	8.665570	10.913215	1.582639
0.002415	0.202752	65.739638	
0.28170	8.665570	10.913215	1.582639
0.002415	0.158524	90.699679	
0.42255	8.665570	10.913215	1.582639
0.002415	0.392605	118.505524	
0.56340	8.665570	10.913215	1.582639
0.002415	0.626617	147.041292	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.959572	-71.971541	-0.557987
-0.000290	-0.309409	-34.419151	
0.14085	-6.959572	-71.971541	-0.557987
-0.000290	-0.075954	-32.376098	
0.28170	-6.959572	-71.971541	-0.557987
-0.000290	-0.462174	-30.843480	
0.42255	-6.959572	-71.971541	-0.557987
-0.000290	-1.124905	-29.777651	
0.56340	-6.959572	-71.971541	-0.557987
-0.000290	-1.788479	-30.172038	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.779042	83.342413	1.724433
0.004778	0.959532	99.129161	
0.14085	10.779042	83.342413	1.724433
0.004778	0.237028	90.372215	
0.28170	10.779042	83.342413	1.724433
0.004778	0.184047	95.448470	
0.42255	10.779042	83.342413	1.724433
0.004778	0.456367	113.671943	
0.56340	10.779042	83.342413	1.724433
0.004778	0.728630	138.528753	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.534624	-64.333108	-0.649198
-0.003954	-0.360406	-29.307896	
0.14085	-17.534624	-64.333108	-0.649198
-0.003954	-0.096218	-27.603910	
0.28170	-17.534624	-64.333108	-0.649198
-0.003954	-0.439537	-41.042260	
0.42255	-17.534624	-64.333108	-0.649198
-0.003954	-1.211965	-58.354141	
0.56340	-17.534624	-64.333108	-0.649198
-0.003954	-1.933440	-86.928119	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.473855	39.546201	1.003233
4.22E-06	0.567562	3.565634	
0.14085	14.473855	39.546201	1.003233
4.22E-06	0.146241	4.033083	
0.28170	14.473855	39.546201	1.003233
4.22E-06	0.232864	4.614841	
0.42255	14.473855	39.546201	1.003233
4.22E-06	0.578056	5.227420	
0.56340	14.473855	39.546201	1.003233
4.22E-06	0.923315	7.014354	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.626614	-8.312173	-0.823185
-0.002327	-0.457524	-32.610098	
0.14085	-3.626614	-8.312173	-0.823185
-0.002327	-0.112542	-47.043923	
0.28170	-3.626614	-8.312173	-0.823185
-0.002327	-0.272159	-61.900839	
0.42255	-3.626614	-8.312173	-0.823185
-0.002327	-0.693342	-76.751280	
0.56340	-3.626614	-8.312173	-0.823185
-0.002327	-1.114269	-92.434216	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.021010	124.492765	1.960964
0.005404	1.117973	113.911073	
0.14085	17.021010	124.492765	1.960964
0.005404	0.299938	88.987152	
0.28170	17.021010	124.492765	1.960964
0.005404	0.316981	64.399709	
0.42255	17.021010	124.492765	1.960964
0.005404	0.788727	58.634511	
0.56340	17.021010	124.492765	1.960964
0.005404	1.260271	67.323364	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.800386	-26.861648	-1.124498
-0.009039	-0.627502	-24.953069	
0.14085	-15.800386	-26.861648	-1.124498
-0.009039	-0.179124	-44.718371	
0.28170	-15.800386	-26.861648	-1.124498
-0.009039	-0.545822	-64.769313	
0.42255	-15.800386	-26.861648	-1.124498
-0.009039	-1.352499	-90.521794	
0.56340	-15.800386	-26.861648	-1.124498
-0.009039	-2.171099	-140.487650	

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 18.520060 101.709692 2.501284
0.004034 1.404480 110.202687
0.14085 18.520060 101.709692 2.501284
0.004034 0.358574 106.877186
0.28170 18.520060 101.709692 2.501284
0.004034 0.352032 104.921014
0.42255 18.520060 101.709692 2.501284
0.004034 0.874577 116.476986
0.56340 18.520060 101.709692 2.501284
0.004034 1.396478 138.711428
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.056701 -58.833595 -1.244844
-0.006841 -0.692641 -22.735050
0.14085 -13.056701 -58.833595 -1.244844
-0.006841 -0.187249 -41.107696
0.28170 -13.056701 -58.833595 -1.244844
-0.006841 -0.707228 -59.480324
0.42255 -13.056701 -58.833595 -1.244844
-0.006841 -1.745155 -82.514521
0.56340 -13.056701 -58.833595 -1.244844
-0.006841 -2.791382 -122.666129

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.441607 86.435691 2.728299
0.004286 1.523820 92.614661
0.14085 20.441607 86.435691 2.728299
0.004286 0.382187 89.555674
0.28170 20.441607 86.435691 2.728299
0.004286 0.388594 88.611243
0.42255 20.441607 86.435691 2.728299
0.004286 0.961884 99.421588
0.56340 20.441607 86.435691 2.728299
0.004286 1.534948 119.309873

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.819081 -55.363437 -1.366333
-0.005686 -0.757308 -35.724168
0.14085 -12.819081 -55.363437 -1.366333
-0.005686 -0.198391 -49.743033
0.28170 -12.819081 -55.363437 -1.366333
-0.005686 -0.776075 -64.370501
0.42255 -12.819081 -55.363437 -1.366333
-0.005686 -1.911050 -82.766676
0.56340 -12.819081 -55.363437 -1.366333
-0.005686 -3.052948 -115.696332

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.067807 51.873218 1.024211
0.003785 0.579849 108.236906
0.14085 2.067807 51.873218 1.024211
0.003785 0.150672 103.146408
0.28170 2.067807 51.873218 1.024211
0.003785 0.074504 98.146495
0.42255 2.067807 51.873218 1.024211
0.003785 0.186053 106.072909
0.56340 2.067807 51.873218 1.024211
0.003785 0.297374 122.636030

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.197169 -43.101122 -0.265406
-0.004550 -0.148967 -1.014749
0.14085 -11.197169 -43.101122 -0.265406
-0.004550 -0.053682 -1.131071
0.28170 -11.197169 -43.101122 -0.265406
-0.004550 -0.296662 -1.309301
0.42255 -11.197169 -43.101122 -0.265406
-0.004550 -0.714626 -2.211965
0.56340 -11.197169 -43.101122 -0.265406
-0.004550 -1.141437 -25.309899

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.495601 51.816866 1.801430
0.004179 1.002575 112.653515
0.14085 8.495601 51.816866 1.801430
0.004179 0.250134 113.639782
0.28170 8.495601 51.816866 1.801430
0.004179 0.170008 116.011518
0.42255 8.495601 51.816866 1.801430
0.004179 0.422816 133.226576
0.56340 8.495601 51.816866 1.801430
0.004179 0.673432 157.946881
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.459228 -64.493805 -0.597631
-0.004188 -0.329813 -9.760197
0.14085 -9.459228 -64.493805 -0.597631
-0.004188 -0.095066 -8.751895
0.28170 -9.459228 -64.493805 -0.597631
-0.004188 -0.523356 -8.252469
0.42255 -9.459228 -64.493805 -0.597631
-0.004188 -1.267943 -11.571890
0.56340 -9.459228 -64.493805 -0.597631
-0.004188 -2.020474 -30.532615

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.570339 86.247287 2.488777
0.002852 1.383162 101.842697
0.14085 15.570339 86.247287 2.488777
0.002852 0.341170 98.584702
0.28170 15.570339 86.247287 2.488777
0.002852 0.308256 107.152602
0.42255 15.570339 86.247287 2.488777
0.002852 0.762426 124.596967
0.56340 15.570339 86.247287 2.488777
0.002852 1.216433 148.702829

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.075319 -62.550784 -1.082413
-0.004543 -0.599678 -10.561794
0.14085 -14.075319 -62.550784 -1.082413
-0.004543 -0.156133 -16.874697
0.28170 -14.075319 -62.550784 -1.082413
-0.004543 -0.712377 -37.442847
0.42255 -14.075319 -62.550784 -1.082413
-0.004543 -1.749376 -61.044727
0.56340 -14.075319 -62.550784 -1.082413
-0.004543 -2.791368 -94.919199

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 15.136953 74.069855 2.790326
0.003485 1.545430 85.186340
0.14085 15.136953 74.069855 2.790326
0.003485 0.376624 82.458884
0.28170 15.136953 74.069855 2.790326
0.003485 0.350424 89.480633
0.42255 15.136953 74.069855 2.790326
0.003485 0.867228 104.046249
0.56340 15.136953 74.069855 2.790326
0.003485 1.383819 124.172916

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -14.556655 -55.339357 -1.231611
-0.003803 -0.682003 -25.023870
0.14085 -14.556655 -55.339357 -1.231611
-0.003803 -0.174230 -29.822502
0.28170 -14.556655 -55.339357 -1.231611
-0.003803 -0.801889 -46.618627
0.42255 -14.556655 -55.339357 -1.231611
-0.003803 -1.966427 -66.009647
0.56340 -14.556655 -55.339357 -1.231611
-0.003803 -3.135191 -94.178749

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.315755 3.412912 1.159000
0.001831 0.634319 1.168762
0.14085 1.315755 3.412912 1.159000
0.001831 0.148272 1.195812
0.28170 1.315755 3.412912 1.159000
0.001831 0.145493 1.552264
0.42255 1.315755 3.412912 1.159000
0.001831 0.359382 2.086031
0.56340 1.315755 3.412912 1.159000
0.001831 0.573467 2.648821
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.411720 -4.263460 -0.510144
-7.83E-06 -0.281594 -24.458448
0.14085 -5.411720 -4.263460 -0.510144
-7.83E-06 -0.107773 -23.907677
0.28170 -5.411720 -4.263460 -0.510144
-7.83E-06 -0.337855 -23.729748
0.42255 -5.411720 -4.263460 -0.510144
-7.83E-06 -0.823962 -23.777069
0.56340 -5.411720 -4.263460 -0.510144
-7.83E-06 -1.310033 -23.965837

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.323564 6.959885 1.898101
0.002879 1.040762 6.240368
0.14085 9.323564 6.959885 1.898101
0.002879 0.245295 6.305040
0.28170 9.323564 6.959885 1.898101
0.002879 0.259555 9.342723
0.42255 9.323564 6.959885 1.898101
0.002879 0.635854 14.176417
0.56340 9.323564 6.959885 1.898101
0.002879 1.012194 19.704849

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.169638 -17.850763 -0.896957
-0.000156 -0.491313 -41.684886
0.14085 -7.169638 -17.850763 -0.896957
-0.000156 -0.116390 -38.927443
0.28170 -7.169638 -17.850763 -0.896957
-0.000156 -0.552083 -37.432009
0.42255 -7.169638 -17.850763 -0.896957
-0.000156 -1.347739 -37.033910
0.56340 -7.169638 -17.850763 -0.896957
-0.000156 -2.143633 -37.433032

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.447449 6.853285 2.472816
0.002367 1.353487 45.796042
0.14085 8.447449 6.853285 2.472816
0.002367 0.316146 65.459720
0.28170 8.447449 6.853285 2.472816
0.002367 0.277896 87.358757
0.42255 8.447449 6.853285 2.472816
0.002367 0.683805 110.389435
0.56340 8.447449 6.853285 2.472816
0.002367 1.089845 133.860508

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.077794 -60.834539 -0.967691
-9.69E-06 -0.532552 -34.459472
0.14085 -8.077794 -60.834539 -0.967691
-9.69E-06 -0.127128 -32.806886
0.28170 -8.077794 -60.834539 -0.967691
-9.69E-06 -0.721032 -31.927928
0.42255 -8.077794 -60.834539 -0.967691
-9.69E-06 -1.758090 -31.663661
0.56340 -8.077794 -60.834539 -0.967691
-9.69E-06 -2.795138 -31.609648

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.551163 68.236601 2.852463
0.004109 1.575604 95.379012
0.14085 11.551163 68.236601 2.852463
0.004109 0.380909 89.361901
0.28170 11.551163 68.236601 2.852463
0.004109 0.331958 94.081778
0.42255 11.551163 68.236601 2.852463
0.004109 0.820392 108.177768
0.56340 11.551163 68.236601 2.852463
0.004109 1.308851 128.460532
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.405550 -55.116902 -1.163919
-0.003449 -0.643724 -29.609794
0.14085 -16.405550 -55.116902 -1.163919
-0.003449 -0.164952 -28.368134
0.28170 -16.405550 -55.116902 -1.163919
-0.003449 -0.824886 -29.972733
0.42255 -16.405550 -55.116902 -1.163919
-0.003449 -2.014912 -55.754231
0.56340 -16.405550 -55.116902 -1.163919
-0.003449 -3.209569 -81.055362

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 19.031876 138.385245 1.724433
0.005514 0.959532 113.602888
0.14085 19.031876 138.385245 1.724433
0.005514 0.237028 115.757682
0.28170 19.031876 138.385245 1.724433
0.005514 0.205991 121.080524
0.42255 19.031876 138.385245 1.724433
0.005514 0.510686 143.565118
0.56340 19.031876 138.385245 1.724433
0.005514 0.815338 175.087745

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.534624 -77.695183 -0.726425
-0.008149 -0.403254 -44.412519
0.14085 -17.534624 -77.695183 -0.726425
-0.008149 -0.107036 -50.755166
0.28170 -17.534624 -77.695183 -0.726425
-0.008149 -0.499537 -71.673971
0.42255 -17.534624 -77.695183 -0.726425
-0.008149 -1.211965 -103.746913
0.56340 -17.534624 -77.695183 -0.726425
-0.008149 -1.933440 -155.847600

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.441607 124.492765 2.852463
0.005404 1.575604 113.911073
0.14085 20.441607 124.492765 2.852463
0.005404 0.382187 113.639782
0.28170 20.441607 124.492765 2.852463
0.005404 0.388594 116.971518
0.42255 20.441607 124.492765 2.852463
0.005404 0.961884 133.226576
0.56340 20.441607 124.492765 2.852463
0.005404 1.534948 157.946881

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.405550 -64.493805 -1.366333
-0.009039 -0.757308 -41.684886
0.14085 -16.405550 -64.493805 -1.366333
-0.009039 -0.198391 -49.743033
0.28170 -16.405550 -64.493805 -1.366333
-0.009039 -0.824886 -64.768313
0.42255 -16.405550 -64.493805 -1.366333
-0.009039 -2.014912 -90.521794
0.56340 -16.405550 -64.493805 -1.366333
-0.009039 -3.209569 -140.487650

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.441607 138.385245 2.852463
0.005514 1.575604 113.911073
0.14085 20.441607 138.385245 2.852463
0.005514 0.382187 115.757682
0.28170 20.441607 138.385245 2.852463
0.005514 0.388594 121.080524
0.42255 20.441607 138.385245 2.852463
0.005514 0.961884 143.565118
0.56340 20.441607 138.385245 2.852463
0.005514 1.534948 175.087745
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.534624 -77.695183 -1.366333
-0.009039 -0.757308 -44.412519
0.14085 -17.534624 -77.695183 -1.366333
-0.009039 -0.198391 -50.755166
0.28170 -17.534624 -77.695183 -1.366333
-0.009039 -0.824886 -71.673971
0.42255 -17.534624 -77.695183 -1.366333
-0.009039 -2.014912 -103.746913
0.56340 -17.534624 -77.695183 -1.366333
-0.009039 -3.209569 -155.847600

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.441607 138.385245 2.852463
0.005514 1.575604 113.911073
0.14085 20.441607 138.385245 2.852463
0.005514 0.382187 115.757682
0.28170 20.441607 138.385245 2.852463
0.005514 0.388594 121.080524
0.42255 20.441607 138.385245 2.852463
0.005514 0.961884 143.565118
0.56340 20.441607 138.385245 2.852463
0.005514 1.534948 175.087745

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.534624 -77.695183 -1.366333
-0.009039 -0.757308 -44.412519
0.14085 -17.534624 -77.695183 -1.366333
-0.009039 -0.198391 -50.755166
0.28170 -17.534624 -77.695183 -1.366333
-0.009039 -0.824886 -71.673971
0.42255 -17.534624 -77.695183 -1.366333
-0.009039 -2.014912 -103.746913
0.56340 -17.534624 -77.695183 -1.366333
-0.009039 -3.209569 -155.847600

ELEM 264 ========== LENGTH = 2.977322

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 48.367540 4.110065 0.906756
2.02E-05 0.909685 8.277925
0.57748 48.367540 4.110065 0.906756
2.02E-05 0.529454 6.576722
0.71832 48.367540 4.110065 0.906756
2.02E-05 0.149308 4.904682
0.85916 48.367540 4.110065 0.906756
2.02E-05 0.151233 3.312003
1.00000 48.367540 4.110065 0.906756
2.02E-05 0.386061 2.846567

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -7.185832 -50.467600 -0.559963
-0.002543 -0.553178 -103.494159
0.57748 -7.185832 -50.467600 -0.559963
-0.002543 -0.318368 -82.460599
0.71832 -7.185832 -50.467600 -0.559963
-0.002543 -0.083515 -61.482327
0.85916 -7.185832 -50.467600 -0.559963
-0.002543 -0.231023 -40.835867
1.00000 -7.185832 -50.467600 -0.559963
-0.002543 -0.611237 -21.208535

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 54.959264 19.570092 1.672705
0.003258 1.665977 47.554461
0.57748 54.959264 19.570092 1.672705
0.003258 0.964571 39.794269
0.71832 54.959264 19.570092 1.672705
0.003258 0.263238 39.027334
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85916 54.959264 19.570092 1.672705
0.003258 0.216417 61.835456
1.00000 54.959264 19.570092 1.672705
0.003258 0.553260 87.958213

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -45.002827 -122.845290 -0.803188
-0.004448 -0.793945 -148.022017
0.57748 -45.002827 -122.845290 -0.803188
-0.004448 -0.457144 -98.459578
0.71832 -45.002827 -122.845290 -0.803188
-0.004448 -0.120274 -65.432695
0.85916 -45.002827 -122.845290 -0.803188
-0.004448 -0.451377 -42.521448
1.00000 -45.002827 -122.845290 -0.803188
-0.004448 -1.139876 -22.136323

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 50.796279 32.386103 2.248942
0.003277 2.232046 75.082037
0.57748 50.796279 32.386103 2.248942
0.003277 1.288999 61.774895
0.71832 50.796279 32.386103 2.248942
0.003277 0.345977 53.197415
0.85916 50.796279 32.386103 2.248942
0.003277 0.594433 60.534193
1.00000 50.796279 32.386103 2.248942
0.003277 0.640527 69.858184

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -36.671335 -93.848261 -0.929980
-0.003636 -0.919348 -124.389945
0.57748 -36.671335 -93.848261 -0.929980
-0.003636 -0.529379 -86.183047
0.71832 -36.671335 -93.848261 -0.929980
-0.003636 -0.139327 -59.809662
0.85916 -36.671335 -93.848261 -0.929980
-0.003636 -0.606019 -38.831742
1.00000 -36.671335 -93.848261 -0.929980
-0.003636 -1.540288 -19.536255

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 62.632148 49.055204 2.442930
0.003611 2.419678 96.892774
0.57748 62.632148 49.055204 2.442930
0.003611 1.395287 77.726261
0.71832 62.632148 49.055204 2.442930
0.003611 0.370924 62.617237
0.85916 62.632148 49.055204 2.442930
0.003611 0.266930 61.039818
1.00000 62.632148 49.055204 2.442930
0.003611 0.681453 61.884418

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -37.673896 -80.067773 -0.988277
-0.003026 -0.976205 -107.878910
0.57748 -37.673896 -80.067773 -0.988277
-0.003026 -0.561791 -75.037008
0.71832 -37.673896 -80.067773 -0.988277
-0.003026 -0.147288 -52.386660
0.85916 -37.673896 -80.067773 -0.988277
-0.003026 -0.660915 -39.272807
1.00000 -37.673896 -80.067773 -0.988277
-0.003026 -1.678008 -31.256912

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 4.462959 17.681147 0.887550
0.003143 0.874554 48.690024
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57748 4.462959 17.681147 0.887550
0.003143 0.502413 41.680301
0.71832 4.462959 17.681147 0.887550
0.003143 0.130287 40.699997
0.85916 4.462959 17.681147 0.887550
0.003143 0.066606 59.839401
1.00000 4.462959 17.681147 0.887550
0.003143 0.171082 82.685144

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -43.691416 -64.991713 -0.248978
-0.001421 -0.246533 -36.972903
0.57748 -43.691416 -64.991713 -0.248978
-0.001421 -0.142130 -12.153076
0.71832 -43.691416 -64.991713 -0.248978
-0.001421 -0.037675 -1.469149
0.85916 -43.691416 -64.991713 -0.248978
-0.001421 -0.252989 -1.256703
1.00000 -43.691416 -64.991713 -0.248978
-0.001421 -0.614367 -3.044021

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 20.969815 44.497080 1.667691
0.004124 1.643445 91.514519
0.57748 20.969815 44.497080 1.667691
0.004124 0.944135 74.570078
0.71832 20.969815 44.497080 1.667691
0.004124 0.244843 63.107051
0.85916 20.969815 44.497080 1.667691
0.004124 0.129629 70.075540
1.00000 20.969815 44.497080 1.667691
0.004124 0.331748 78.799852

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -36.459767 -51.687373 -0.481653
-0.001253 -0.476140 -30.322469
0.57748 -36.459767 -51.687373 -0.481653
-0.001253 -0.274168 -9.701008
0.71832 -36.459767 -51.687373 -0.481653
-0.001253 -0.072123 -2.932331
0.85916 -36.459767 -51.687373 -0.481653
-0.001253 -0.464697 -7.048816
1.00000 -36.459767 -51.687373 -0.481653
-0.001253 -1.153962 -14.124589

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 43.919552 53.380109 2.241782
0.003264 2.218116 114.719784
0.57748 43.919552 53.380109 2.241782
0.003264 1.278071 93.892201
0.71832 43.919552 53.380109 2.241782
0.003264 0.338020 76.970170
0.85916 43.919552 53.380109 2.241782
0.003264 0.218437 73.204481
1.00000 43.919552 53.380109 2.241782
0.003264 0.558518 71.267376

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -43.732345 -67.839602 -0.810697
-0.002432 -0.801282 -78.713024
0.57748 -43.732345 -67.839602 -0.810697
-0.002432 -0.461332 -51.040375
0.71832 -43.732345 -67.839602 -0.810697
-0.002432 -0.121284 -33.382966
0.85916 -43.732345 -67.839602 -0.810697
-0.002432 -0.609248 -24.595633
1.00000 -43.732345 -67.839602 -0.810697
-0.002432 -1.542183 -18.586932
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2856

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 41.613230 61.614050 2.436884
0.003591 2.406930 128.495402
0.57748 41.613230 61.614050 2.436884
0.003591 1.385072 103.661805
0.71832 41.613230 61.614050 2.436884
0.003591 0.363218 82.557781
0.85916 41.613230 61.614050 2.436884
0.003591 0.246210 72.385912
1.00000 41.613230 61.614050 2.436884
0.003591 0.628444 64.048824

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -46.758682 -58.612608 -0.911239
-0.002030 -0.899997 -70.173993
0.57748 -46.758682 -58.612608 -0.911239
-0.002030 -0.517387 -46.266087
0.71832 -46.758682 -58.612608 -0.911239
-0.002030 -0.135691 -30.757900
0.85916 -46.758682 -58.612608 -0.911239
-0.002030 -0.664713 -22.069686
1.00000 -46.758682 -58.612608 -0.911239
-0.002030 -1.680600 -20.535525

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 2.863221 25.022485 0.872894
0.001326 0.856126 48.877931
0.57748 2.863221 25.022485 0.872894
0.001326 0.490095 38.541288
0.71832 2.863221 25.022485 0.872894
0.001326 0.124063 28.263880
0.85916 2.863221 25.022485 0.872894
0.001326 0.101975 18.081298
1.00000 2.863221 25.022485 0.872894
0.001326 0.259086 8.169983

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -19.691752 -3.650091 -0.374664
-2.25E-06 -0.369347 -7.824184
0.57748 -19.691752 -3.650091 -0.374664
-2.25E-06 -0.212239 -6.295225
0.71832 -19.691752 -3.650091 -0.374664
-2.25E-06 -0.055084 -4.806789
0.85916 -19.691752 -3.650091 -0.374664
-2.25E-06 -0.041986 -3.618081
1.00000 -19.691752 -3.650091 -0.374664
-2.25E-06 -0.608000 -2.473376

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 30.910388 54.379422 1.556561
0.002470 1.529657 90.298459
0.57748 30.910388 54.379422 1.556561
0.002470 0.876943 70.147728
0.71832 30.910388 54.379422 1.556561
0.002470 0.224228 50.395796
0.85916 30.910388 54.379422 1.556561
0.002470 0.163558 31.828626
1.00000 30.910388 54.379422 1.556561
0.002470 0.415520 14.434503

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -25.457286 -7.004653 -0.600784
-5.23E-05 -0.592187 -12.362842
0.57748 -25.457286 -7.004653 -0.600784
-5.23E-05 -0.340260 -9.460744
0.71832 -25.457286 -7.004653 -0.600784
-5.23E-05 -0.088225 -7.276426
0.85916 -25.457286 -7.004653 -0.600784
-5.23E-05 -0.428918 -13.536274
1.00000 -25.457286 -7.004653 -0.600784
-5.23E-05 -1.081208 -22.075527
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2857

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 17.727286 57.205287 2.153852
0.003093 2.118357 112.867005
0.57748 17.727286 57.205287 2.153852
0.003093 1.215182 90.288762
0.71832 17.727286 57.205287 2.153852
0.003093 0.312007 68.242042
0.85916 17.727286 57.205287 2.153852
0.003093 0.201417 47.913854
1.00000 17.727286 57.205287 2.153852
0.003093 0.513285 29.408763

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -34.793554 -10.925889 -0.743440
-8.28E-05 -0.733703 -13.950474
0.57748 -34.793554 -10.925889 -0.743440
-8.28E-05 -0.421956 -9.571419
0.71832 -34.793554 -10.925889 -0.743440
-8.28E-05 -0.110095 -5.192122
0.85916 -34.793554 -10.925889 -0.743440
-8.28E-05 -0.591850 -8.998453
1.00000 -34.793554 -10.925889 -0.743440
-8.28E-05 -1.494356 -12.735168

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 27.311594 70.250035 2.428631
0.004112 2.393954 148.043966
0.57748 27.311594 70.250035 2.428631
0.004112 1.375560 119.861389
0.71832 27.311594 70.250035 2.428631
0.004112 0.357169 95.559213
0.85916 27.311594 70.250035 2.428631
0.004112 0.236136 84.734957
1.00000 27.311594 70.250035 2.428631
0.004112 0.602551 75.500489

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -59.247573 -53.530393 -0.873511
-0.001594 -0.862605 -52.429936
0.57748 -59.247573 -53.530393 -0.873511
-0.001594 -0.496313 -30.770281
0.71832 -59.247573 -53.530393 -0.873511
-0.001594 -0.129883 -18.925444
0.85916 -59.247573 -53.530393 -0.873511
-0.001594 -0.668422 -14.848285
1.00000 -59.247573 -53.530393 -0.873511
-0.001594 -1.679768 -13.901815

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 69.708876 5.491633 1.779886
1.57E-05 1.777194 12.522110
0.57748 69.708876 5.491633 1.779886
1.57E-05 1.030640 10.266473
0.71832 69.708876 5.491633 1.779886
1.57E-05 0.283242 8.037755
0.85916 69.708876 5.491633 1.779886
1.57E-05 0.306066 5.902042
1.00000 69.708876 5.491633 1.779886
1.57E-05 0.783079 4.237483

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -13.474444 -63.830107 -1.137487
-0.002992 -1.124750 -135.571643
0.57748 -13.474444 -63.830107 -1.137487
-0.002992 -0.647721 -108.855840
0.71832 -13.474444 -63.830107 -1.137487
-0.002992 -0.170585 -82.141701
0.85916 -13.474444 -63.830107 -1.137487
-0.002992 -0.460817 -55.818217
1.00000 -13.474444 -63.830107 -1.137487
-0.002992 -1.207591 -29.815573
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2858

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 79.086281 21.596991 3.127325
0.003589 3.101082 44.381034
0.57748 79.086281 21.596991 3.127325
0.003589 1.789374 38.062005
0.71832 79.086281 21.596991 3.127325
0.003589 0.477755 41.864779
0.85916 79.086281 21.596991 3.127325
0.003589 0.422275 68.567999
1.00000 79.086281 21.596991 3.127325
0.003589 1.081839 97.078248

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -50.008761 -145.198974 -1.572673
-0.004481 -1.555898 -184.098093
0.57748 -50.008761 -145.198974 -1.572673
-0.004481 -0.896495 -124.395470
0.71832 -50.008761 -145.198974 -1.572673
-0.004481 -0.237965 -84.740971
0.85916 -50.008761 -145.198974 -1.572673
-0.004481 -0.843904 -49.417820
1.00000 -50.008761 -145.198974 -1.572673
-0.004481 -2.143268 -31.396747

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 74.615907 36.991342 3.881626
0.003531 3.843591 81.375195
0.57748 74.615907 36.991342 3.881626
0.003531 2.215545 67.829346
0.71832 74.615907 36.991342 3.881626
0.003531 0.587751 61.394806
0.85916 74.615907 36.991342 3.881626
0.003531 0.467750 70.962197
1.00000 74.615907 36.991342 3.881626
0.003531 1.196733 81.684143

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -46.696235 -114.396108 -1.738306
-0.003792 -1.718897 -156.897301
0.57748 -46.696235 -114.396108 -1.738306
-0.003792 -0.990056 -110.105033
0.71832 -46.696235 -114.396108 -1.738306
-0.003792 -0.261977 -77.672393
0.85916 -46.696235 -114.396108 -1.738306
-0.003792 -1.047143 -52.269101
1.00000 -46.696235 -114.396108 -1.738306
-0.003792 -2.666063 -29.437675

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 77.233446 59.059829 4.114397
0.003911 4.069725 111.883353
0.57748 77.233446 59.059829 4.114397
0.003911 2.344403 89.440328
0.71832 77.233446 59.059829 4.114397
0.003911 0.618952 73.004591
0.85916 77.233446 59.059829 4.114397
0.003911 0.502237 71.180923
1.00000 77.233446 59.059829 4.114397
0.003911 1.282663 72.032515

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -47.179919 -97.536021 -1.860819
-0.003158 -1.838068 -136.049311
0.57748 -47.179919 -97.536021 -1.860819
-0.003158 -1.057803 -96.077893
0.71832 -47.179919 -97.536021 -1.860819
-0.003158 -0.278249 -68.333534
0.85916 -47.179919 -97.536021 -1.860819
-0.003158 -0.111257 -49.888083
1.00000 -47.179919 -97.536021 -1.860819
-0.003158 -2.830484 -35.831422
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2859

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 7.294653 16.259638 1.419662
0.002899 1.394225 40.782361
0.57748 7.294653 16.259638 1.419662
0.002899 0.798723 36.128349
0.71832 7.294653 16.259638 1.419662
0.002899 0.203946 38.854528
0.85916 7.294653 16.259638 1.419662
0.002899 0.103474 58.433021
1.00000 7.294653 16.259638 1.419662
0.002899 0.266108 80.003439

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -40.392152 -64.454234 -0.387661
-0.000873 -0.221144 -39.851641
0.57748 -40.392152 -64.454234 -0.387661
-0.000873 -0.221635 -13.837281
0.71832 -40.392152 -64.454234 -0.387661
-0.000873 -0.059514 -2.106358
0.85916 -40.392152 -64.454234 -0.387661
-0.000873 -0.399629 1.599328
1.00000 -40.392152 -64.454234 -0.387661
-0.000873 -0.986533 -3.387243

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 20.567502 48.524137 2.540216
0.003953 2.499608 94.819931
0.57748 20.567502 48.524137 2.540216
0.003953 1.434400 77.371734
0.71832 20.567502 48.524137 2.540216
0.003953 0.370001 66.733714
0.85916 20.567502 48.524137 2.540216
0.003953 0.219142 72.393946
1.00000 20.567502 48.524137 2.540216
0.003953 0.559219 79.876183

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -38.163889 -54.229482 -0.810799
-0.000768 -0.800590 -34.245784
0.57748 -38.163889 -54.229482 -0.810799
-0.000768 -0.460681 -12.568447
0.71832 -38.163889 -54.229482 -0.810799
-0.000768 -0.121550 -4.885077
0.85916 -38.163889 -54.229482 -0.810799
-0.000768 -0.703915 -7.101310
1.00000 -38.163889 -54.229482 -0.810799
-0.000768 -1.760572 -12.550076

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 53.131641 60.176135 3.714837
0.003016 3.670457 123.975622
0.57748 53.131641 60.176135 3.714837
0.003016 2.112688 101.975708
0.71832 53.131641 60.176135 3.714837
0.003016 0.554400 82.475906
0.85916 53.131641 60.176135 3.714837
0.003016 0.401087 74.978352
1.00000 53.131641 60.176135 3.714837
0.003016 1.025090 69.297112

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -51.667862 -72.189489 -1.488092
-0.002296 -1.470842 -90.929019
0.57748 -51.667862 -72.189489 -1.488092
-0.002296 -0.846782 -61.481289
0.71832 -51.667862 -72.189489 -1.488092
-0.002296 -0.223265 -41.327008
0.85916 -51.667862 -72.189489 -1.488092
-0.002296 -1.006556 -28.788320
1.00000 -51.667862 -72.189489 -1.488092
-0.002296 -2.559391 -19.054701
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2860

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 49.194646 73.272638 4.039634
0.003442 3.987098 146.179687
0.57748 49.194646 73.272638 4.039634
0.003442 2.293102 117.167577
0.71832 49.194646 73.272638 4.039634
0.003442 0.598788 91.228611
0.85916 49.194646 73.272638 4.039634
0.003442 0.450752 76.155473
1.00000 49.194646 73.272638 4.039634
0.003442 1.150636 63.039287

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -55.278925 -62.726264 -1.668635
-0.001916 -1.647676 -81.725605
0.57748 -55.278925 -62.726264 -1.668635
-0.001916 -0.947900 -56.127818
0.71832 -55.278925 -62.726264 -1.668635
-0.001916 -0.248482 -38.270515
0.85916 -55.278925 -62.726264 -1.668635
-0.001916 -1.098048 -27.174113
1.00000 -55.278925 -62.726264 -1.668635
-0.001916 -2.787779 -20.548874

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 3.915654 32.079654 1.487478
0.001468 1.460798 62.774406
0.57748 3.915654 32.079654 1.487478
0.001468 0.837086 49.432265
0.71832 3.915654 32.079654 1.487478
0.001468 0.213302 36.138034
0.85916 3.915654 32.079654 1.487478
0.001468 0.178258 22.953087
1.00000 3.915654 32.079654 1.487478
0.001468 0.453233 9.946345

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -25.864859 -4.588952 -0.655372
-1.11E-06 -0.645436 -10.066603
0.57748 -25.864859 -4.588952 -0.655372
-1.11E-06 -0.370534 -8.153638
0.71832 -25.864859 -4.588952 -0.655372
-1.11E-06 -0.095432 -6.306842
0.85916 -25.864859 -4.588952 -0.655372
-1.11E-06 -0.410494 -4.643987
1.00000 -25.864859 -4.588952 -0.655372
-1.11E-06 -1.034222 -3.109536

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 27.074098 69.605851 2.529024
0.002750 2.488353 116.324757
0.57748 27.074098 69.605851 2.529024
0.002750 1.427900 89.153578
0.71832 27.074098 69.605851 2.529024
0.002750 0.367712 62.340744
0.85916 27.074098 69.605851 2.529024
0.002750 0.306319 38.016063
1.00000 27.074098 69.605851 2.529024
0.002750 0.777692 15.905012

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -32.348869 -7.851682 -1.124008
-2.42E-05 -1.106530 -15.728063
0.57748 -32.348869 -7.851682 -1.124008
-2.42E-05 -0.635063 -12.457267
0.71832 -32.348869 -7.851682 -1.124008
-2.42E-05 -0.163757 -10.395125
0.85916 -32.348869 -7.851682 -1.124008
-2.42E-05 -0.693723 -13.594460
1.00000 -32.348869 -7.851682 -1.124008
-2.42E-05 -1.753871 -19.857552
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2861

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 19.950716 69.795746 3.362475
0.003079 3.308317 137.158615
0.57748 19.950716 69.795746 3.362475
0.003079 1.898441 109.144546
0.71832 19.950716 69.795746 3.362475
0.003079 0.488663 81.437051
0.85916 19.950716 69.795746 3.362475
0.003079 0.344111 55.270210
1.00000 19.950716 69.795746 3.362475
0.003079 0.875638 31.308283

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -43.820635 -10.849145 -1.267026
-4.87E-06 -1.248726 -17.890625
0.57748 -43.820635 -10.849145 -1.267026
-4.87E-06 -0.717372 -13.576733
0.71832 -43.820635 -10.849145 -1.267026
-4.87E-06 -0.186145 -9.982556
0.85916 -43.820635 -10.849145 -1.267026
-4.87E-06 -0.921262 -10.780021
1.00000 -43.820635 -10.849145 -1.267026
-4.87E-06 -2.331003 -13.692314

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 34.296432 80.388541 3.993228
0.003924 3.933940 162.648046
0.57748 34.296432 80.388541 3.993228
0.003924 2.259365 131.027398
0.71832 34.296432 80.388541 3.993228
0.003924 0.584937 103.607779
0.85916 34.296432 80.388541 3.993228
0.003924 0.421674 86.346324
1.00000 34.296432 80.388541 3.993228
0.003924 1.075814 71.579779

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -65.508759 -54.229971 -1.559330
-0.001284 -1.539014 -59.533515
0.57748 -65.508759 -54.229971 -1.559330
-0.001284 -0.885126 -37.498736
0.71832 -65.508759 -54.229971 -1.559330
-0.001284 -0.231749 -23.984022
0.85916 -65.508759 -54.229971 -1.559330
-0.001284 -1.093377 -17.832425
1.00000 -65.508759 -54.229971 -1.559330
-0.001284 -2.763003 -15.341270

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 62.632148 70.250035 2.442930
0.004124 2.419678 148.043966
0.57748 62.632148 70.250035 2.442930
0.004124 1.395287 119.861389
0.71832 62.632148 70.250035 2.442930
0.004124 0.370924 95.559213
0.85916 62.632148 70.250035 2.442930
0.004124 0.266930 84.734957
1.00000 62.632148 70.250035 2.442930
0.004124 0.681453 87.958213

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -59.247573 -122.845290 -0.988277
-0.004448 -0.976205 -148.022017
0.57748 -59.247573 -122.845290 -0.988277
-0.004448 -0.561791 -98.459578
0.71832 -59.247573 -122.845290 -0.988277
-0.004448 -0.147288 -65.432695
0.85916 -59.247573 -122.845290 -0.988277
-0.004448 -0.668422 -42.521448
1.00000 -59.247573 -122.845290 -0.988277
-0.004448 -1.680600 -31.256912
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2862

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 79.086281 80.388541 4.114397
0.003953 4.069725 162.648046
0.57748 79.086281 80.388541 4.114397
0.003953 2.344403 131.027398
0.71832 79.086281 80.388541 4.114397
0.003953 0.618952 103.607779
0.85916 79.086281 80.388541 4.114397
0.003953 0.502237 86.346324
1.00000 79.086281 80.388541 4.114397
0.003953 1.282663 97.078248

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -65.508759 -145.198974 -1.860819
-0.004481 -1.838068 -184.098093
0.57748 -65.508759 -145.198974 -1.860819
-0.004481 -1.057803 -124.395470
0.71832 -65.508759 -145.198974 -1.860819
-0.004481 -0.278249 -84.740971
0.85916 -65.508759 -145.198974 -1.860819
-0.004481 -0.111257 -56.417820
1.00000 -65.508759 -145.198974 -1.860819
-0.004481 -2.830484 -35.831422

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 79.086281 80.388541 4.114397
0.004124 4.069725 162.648046
0.57748 79.086281 80.388541 4.114397
0.004124 2.344403 131.027398
0.71832 79.086281 80.388541 4.114397
0.004124 0.618952 103.607779
0.85916 79.086281 80.388541 4.114397

```
 0.004124    0.502237   86.346324
 1.00000    79.086281   80.388541    4.114397
 0.004124    1.282663   97.078248

COMB     CAR ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43663   -65.508759 -145.198974   -1.860819
-0.004481   -1.838068 -184.098093
0.57748   -65.508759 -145.198974   -1.860819
-0.004481   -1.057803 -124.395470
0.71832   -65.508759 -145.198974   -1.860819
-0.004481   -0.278249  -84.740971
0.85916   -65.508759 -145.198974   -1.860819
-0.004481   -1.112517  -56.417820
1.00000   -65.508759 -145.198974   -1.860819
-0.004481   -2.830484  -35.831422

COMB  DESIGN ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43663   79.086281   80.388541    4.114397
 0.004124   4.069725  162.648046
0.57748   79.086281   80.388541    4.114397
 0.004124   2.344403  131.027398
0.71832   79.086281   80.388541    4.114397
 0.004124   0.618952  103.607779
0.85916   79.086281   80.388541    4.114397
 0.004124   0.502237   86.346324
1.00000   79.086281   80.388541    4.114397
 0.004124   1.282663   97.078248

COMB  DESIGN ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43663   -65.508759 -145.198974   -1.860819
-0.004481   -1.838068 -184.098093
0.57748   -65.508759 -145.198974   -1.860819
-0.004481   -1.057803 -124.395470
0.71832   -65.508759 -145.198974   -1.860819
-0.004481   -0.278249  -84.740971
0.85916   -65.508759 -145.198974   -1.860819
-0.004481   -1.112517  -56.417820
1.00000   -65.508759 -145.198974   -1.860819
-0.004481   -2.830484  -35.831422
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2863

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      265 ================== LENGTH
=     2.977382

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   49.340777   4.136710    0.609616
 3.00E-06   0.434848   2.846449
0.14084   49.340777   4.136710    0.609616
 3.00E-06   0.179248   3.250682
0.28169   49.340777   4.136710    0.609616
 3.00E-06   0.076678  23.832855
0.42253   49.340777   4.136710    0.609616
 3.00E-06   0.303955  44.837192
0.56337   49.340777   4.136710    0.609616
 3.00E-06   0.527149  65.893850

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -7.700303  -50.389602   -0.537013
-0.002437   -0.373627  -21.213090
0.14084   -7.700303  -50.389602   -0.537013
-0.002437   -0.148432   -9.158833
0.28169   -7.700303  -50.389602   -0.537013
-0.002437   -0.080617   -2.483829
0.42253   -7.700303  -50.389602   -0.537013
-0.002437   -0.332082   -4.156329
0.56337   -7.700303  -50.389602   -0.537013
-0.002437   -0.587711   -5.848724

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   56.711298   76.474567    1.406857
 0.001449   1.005028   88.005306
0.14084   56.711298   76.474567    1.406857
 0.001449   0.415202   64.724419
0.28169   56.711298   76.474567    1.406857
 0.001449   0.109006   51.987347
0.42253   56.711298   76.474567    1.406857
 0.001449   0.429649   85.246671
0.56337   56.711298   76.474567    1.406857
 0.001449   0.750274  114.814012

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -50.095118  -74.508389   -0.764584
-0.006366   -0.532226  -22.185858
0.14084   -50.095118  -74.508389   -0.764584
-0.006366   -0.211584   -6.662135
0.28169   -50.095118  -74.508389   -0.764584
-0.006366   -0.193692   -4.475638
0.42253   -50.095118  -74.508389   -0.764584
-0.006366   -0.771594  -21.984121
0.56337   -50.095118  -74.508389   -0.764584
-0.006366   -1.355381  -51.170109

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   52.232569   71.271542    2.028820
 0.001602   1.427434   69.888523
0.14084   52.232569   71.271542    2.028820
 0.001602   0.576716   48.932033
0.28169   52.232569   71.271542    2.028820
 0.001602   0.126683   49.356888
0.42253   52.232569   71.271542    2.028820
 0.001602   0.499318   68.463559
0.56337   52.232569   71.271542    2.028820
 0.001602   0.871793   92.289850

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -39.335642  -61.452856   -0.888228
-0.004923   -0.618104  -19.570596
0.14084   -39.335642  -61.452856   -0.888228
-0.004923   -0.245516   -5.681220
0.28169   -39.335642  -61.452856   -0.888228
-0.004923   -0.286787   -7.310551
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2864

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42253   -39.335642  -61.452856   -0.888228
-0.004923   -1.129378  -27.176042
0.56337   -39.335642  -61.452856   -0.888228
-0.004923   -1.975953  -55.210704

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   63.885188   81.309213    2.311076
 0.002432   1.617248   61.908025
0.14084   63.885188   81.309213    2.311076
 0.002432   0.648148   41.353788
0.28169   63.885188   81.309213    2.311076
 0.002432   0.137717   42.172010
0.42253   63.885188   81.309213    2.311076
 0.002432   0.539935   58.890570
0.56337   63.885188   81.309213    2.311076
 0.002432   0.942247   79.857492

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -39.128516  -53.176668   -0.959379
-0.004095   -0.666999  -31.285879
0.14084   -39.128516  -53.176668   -0.959379
-0.004095   -0.264589  -27.970119
0.28169   -39.128516  -53.176668   -0.959379
-0.004095   -0.331556  -37.675155
0.42253   -39.128516  -53.176668   -0.959379
-0.004095   -1.293891  -62.670359
0.56337   -39.128516  -53.176668   -0.959379
-0.004095   -2.259542  -94.507404

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    4.882333   65.434708    0.955771
 0.001288   0.674680   82.720523
0.14084    4.882333   65.434708    0.955771
 0.001288   0.273984   64.778119
0.28169    4.882333   65.434708    0.955771
 0.001288   0.033067   46.889258
0.42253    4.882333   65.434708    0.955771
 0.001288   0.130832   50.711252
0.56337    4.882333   65.434708    0.955771
 0.001288   0.228564   59.810002

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -47.202330  -25.369674   -0.233059
-0.002982   -0.162365   -5.383020
0.14084   -47.202330  -25.369674   -0.233059
-0.002982   -0.064581   -1.105045
0.28169   -47.202330  -25.369674   -0.233059
-0.002982   -0.142784   -1.290019
0.42253   -47.202330  -25.369674   -0.233059
-0.002982   -0.533349  -14.363517
0.56337   -47.202330  -25.369674   -0.233059
-0.002982   -0.928957  -38.534986

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   21.317073   89.307160    1.761777
 0.002303   1.230855   78.834028
0.14084   21.317073   89.307160    1.761777
 0.002303   0.492109   51.543441
0.28169   21.317073   89.307160    1.761777
 0.002303   0.066763   28.819886
0.42253   21.317073   89.307160    1.761777
 0.002303   0.261377   27.382226
0.56337   21.317073   89.307160    1.761777
 0.002303   0.456128   31.867128

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -38.576674  -14.753602   -0.464415
-0.002711   -0.322874  -14.161007
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2865

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.14084   -38.576674  -14.753602   -0.464415
-0.002711   -0.127991  -17.782493
0.28169   -38.576674  -14.753602   -0.464415
-0.002711   -0.261302  -26.949187
0.42253   -38.576674  -14.753602   -0.464415
-0.002711   -0.990662  -52.814215
0.56337   -38.576674  -14.753602   -0.464415
-0.002711   -1.724646  -88.101442

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   45.095000   84.562587    2.161331
 0.001860   1.510760   71.287395
0.14084   45.095000   84.562587    2.161331
 0.001860   0.604444   47.898797
0.28169   45.095000   84.562587    2.161331
 0.001860   0.111440   44.001030
0.42253   45.095000   84.562587    2.161331
 0.001860   0.437917   55.828571
0.56337   45.095000   84.562587    2.161331
 0.001860   0.764451   72.124025

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -44.602554  -41.713780   -0.778676
-0.003720   -0.541686  -18.613476
0.14084   -44.602554  -41.713780   -0.778676
-0.003720   -0.215013  -17.277305
0.28169   -44.602554  -41.713780   -0.778676
-0.003720   -0.312272  -27.377807
0.42253   -44.602554  -41.713780   -0.778676
-0.003720   -1.211911  -53.655363
0.56337   -44.602554  -41.713780   -0.778676
-0.003720   -2.114852  -86.704240

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   42.676927   87.311179    2.446236
 0.002690   1.702919   64.063671
0.14084   42.676927   87.311179    2.446236
 0.002690   0.677132   39.950866
0.28169   42.676927   87.311179    2.446236
 0.002690   0.127935   36.799726
0.42253   42.676927   87.311179    2.446236
 0.002690   0.501603   47.319919
0.56337   42.676927   87.311179    2.446236
 0.002690   0.875259   61.591717

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -46.683711  -36.690542   -0.891044
-0.003107   -0.519363  -20.558539
0.14084   -46.683711  -36.690542   -0.891044
-0.003107   -0.245594  -23.789940
0.28169   -46.683711  -36.690542   -0.891044
-0.003107   -0.357370  -37.155101
0.42253   -46.683711  -36.690542   -0.891044
-0.003107   -1.377581  -64.485468
0.56337   -46.683711  -36.690542   -0.891044
-0.003107   -2.400547  -97.842923

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.615093   24.512668    1.013389
 0.001779   0.696446   8.166726
0.14084    2.615093   24.512668    1.013389
 0.001779   0.271486   2.263076
0.28169    2.615093   24.512668    1.013389
 0.001779   0.055519   2.913893
0.42253    2.615093   24.512668    1.013389
 0.001779    0.217529    3.594670
0.56337    2.615093   24.512668    1.013389
 0.001779    0.379051    4.294286
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2866

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -18.436390   -3.555223   -0.385177
-4.57E-06   -0.436037   -2.472984
0.14084   -18.436390   -3.555223   -0.385177
-4.57E-06   -0.105601   -6.703792
0.28169   -18.436390   -3.555223   -0.385177
-4.57E-06   -0.153494  -15.165163
0.42253   -18.436390   -3.555223   -0.385177
-4.57E-06   -0.578441  -24.817903
0.56337   -18.436390   -3.555223   -0.385177
-4.57E-06   -1.003394  -34.891177

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   30.640316   56.223581    1.736164
 0.003019   1.196156   14.431202
0.14084   30.640316   56.223581    1.736164
 0.003019   0.468105    2.351561
0.28169   30.640316   56.223581    1.736164
 0.003019   0.090738    2.279195
0.42253   30.640316   56.223581    1.736164
 0.003019   0.346643    4.041084
0.56337   30.640316   56.223581    1.736164
 0.003019   0.604170    6.190476

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -23.491652   -5.378989   -0.614117
-0.000113   -0.425939  -22.080749
0.14084   -23.491652   -5.378989   -0.614117
-0.000113   -0.168377  -38.897381
0.28169   -23.491652   -5.378989   -0.614117
-0.000113   -0.260554  -58.341477
0.42253   -23.491652   -5.378989   -0.614117
-0.000113   -0.988222  -79.996507
0.56337   -23.491652   -5.378989   -0.614117
-0.000113   -1.716076 -102.774278

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   17.500550   59.933972    2.352188
 0.002942   1.621642   29.403844
0.14084   17.500550   59.933972    2.352188
 0.002942   0.835266   16.248402
0.28169   17.500550   59.933972    2.352188
 0.002942   0.107462   15.655431
0.42253   17.500550   59.933972    2.352188
 0.002942   0.419295   18.133656
0.56337   17.500550   59.933972    2.352188
 0.002942   0.731191   21.768444

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -32.400201   -9.314968   -0.743769
-0.000179   -0.516394  -12.740035
0.14084   -32.400201   -9.314968   -0.743769
-0.000179   -0.204369  -23.504254
0.28169   -32.400201   -9.314968   -0.743769
-0.000179   -0.352161  -39.327699
0.42253   -32.400201   -9.314968   -0.743769
-0.000179   -1.337840  -62.052422
0.56337   -32.400201   -9.314968   -0.743769
-0.000179   -2.323902  -86.408959

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   27.850713  100.163111    2.548095
 0.003260   1.770415   75.519529
0.14084   27.850713  100.163111    2.548095
 0.003260   0.701945   44.380096
0.28169   27.850713  100.163111    2.548095
 0.003260   0.123670   33.706331
0.42253   27.850713  100.163111    2.548095
 0.003260   0.644949   49.877363
0.56337   27.850713  100.163111    2.548095
 0.003260   0.844949   49.877363
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2867

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -59.354610  -27.537782   -0.860059
-0.002848   -0.597692  -13.929544
0.14084   -59.354610  -27.537782   -0.860059
-0.002848   -0.236916  -20.423319
0.28169   -59.354610  -27.537782   -0.860059
-0.002848   -0.376905  -35.654355
0.42253   -59.354610  -27.537782   -0.860059
-0.002848   -1.438820  -67.240493
0.56337   -59.354610  -27.537782   -0.860059
-0.002848   -2.503985 -107.193761

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    71.739947   5.532398    1.324882
 1.70E-06   0.936299   4.237611
0.14084    71.739947   5.532398    1.324882
 1.70E-06   0.380232   4.809256
0.28169    71.739947   5.532398    1.324882
 1.70E-06   0.153791  28.451655
0.42253    71.739947   5.532398    1.324882
 1.70E-06   0.605830  54.522925
0.56337    71.739947   5.532398    1.324882
 1.70E-06   1.057981  80.817459

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -14.815904  -63.935088   -1.078108
-0.002874   -0.750264  -29.819560
0.14084   -14.815904  -63.935088   -1.078108
-0.002874   -0.298181   -9.230552
0.28169   -14.815904  -63.935088   -1.078108
-0.002874   -0.174291   -4.957059
0.42253   -14.815904  -63.935088   -1.078108
-0.002874   -0.729600   -6.412490
0.56337   -14.815904  -63.935088   -1.078108
-0.002874   -1.285386   -8.256169

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    82.387028   88.032387    2.728313
 0.001014   1.928706   97.271723
0.14084    82.387028   88.032387    2.728313
 0.001014   0.784184   69.603797
0.28169    82.387028   88.032387    2.728313
 0.001014   0.209279   66.358168
0.42253    82.387028   88.032387    2.728313
 0.001014    0.827813   92.093201
0.56337    82.387028   88.032387    2.728313
 0.001014    1.446426  126.662235

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -53.293084  -86.163168   -1.475067
-0.007206   -1.027818  -31.451640
0.14084   -53.293084  -86.163168   -1.475067
-0.007206   -0.409077   -8.981461
0.28169   -53.293084  -86.163168   -1.475067
-0.007206   -0.372758   -8.421840
0.42253   -53.293084  -86.163168   -1.475067
-0.007206   -1.508273  -28.203643
0.56337   -53.293084  -86.163168   -1.475067
-0.007206   -2.646346  -63.554631

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    77.666503   84.333940    3.571826
 0.001256   2.502670   81.818487
0.14084    77.666503   84.333940    3.571826
 0.001256   1.004837   54.483966
0.28169    77.666503   84.333940    3.571826
 0.001256   0.235142   53.295282
0.42253    77.666503   84.333940    3.571826
 0.001256   0.927102   75.652362
0.56337    77.666503   84.333940    3.571826
 0.001256   1.618919  104.533444
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2868

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -48.329113  -73.024582   -1.649831
-0.005729   -1.148251  -29.477370
0.14084   -48.329113  -73.024582   -1.649831
-0.005729   -0.456050  -10.055897
0.28169   -48.329113  -73.024582   -1.649831
-0.005729   -0.502147   -13.12458
0.42253   -48.329113  -73.024582   -1.649831
-0.005729   -1.994249  -35.519362
0.56337   -48.329113  -73.024582   -1.649831
-0.005729   -3.487781  -69.447095

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   79.510745   98.357830    3.913265
 0.002232   2.732698   72.142116
0.14084   79.510745   98.357830    3.913265
 0.002232   1.091722   45.987482
0.28169   79.510745   98.357830    3.913265
 0.002232   0.263438   45.434416
0.42253   79.510745   98.357830    3.913265
 0.002232   1.029507   64.911767
0.56337   79.510745   98.357830    3.913265
 0.002232   1.795544   89.841805

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -47.595547  -63.191945   -1.826395
-0.004766   -1.267571  -35.864060
0.14084   -47.595547  -63.191945   -1.826395
-0.004766   -0.501441  -28.249962
0.28169   -47.595547  -63.191945   -1.826395
-0.004766   -0.557141  -42.017600
0.42253   -47.595547  -63.191945   -1.826395
-0.004766   -2.193238  -72.039472
0.56337   -47.595547  -63.191945   -1.826395
-0.004766   -3.830674 -111.739995

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    8.211914   62.997032    1.533012
 0.000774   1.072327   80.134642
0.14084    8.211914   62.997032    1.533012
 0.000774   0.429666   61.961529
0.28169    8.211914   62.997032    1.533012
 0.000774   0.050032   44.157397
0.42253    8.211914   62.997032    1.533012
 0.000774   0.192977   46.104474
0.56337    8.211914   62.997032    1.533012
 0.000774   0.349191   54.596614

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -41.336648  -23.929089   -0.356455
-0.002829   -0.248782   -3.422636
0.14084   -41.336648  -23.929089   -0.356455
-0.002829   -0.099206   -1.728191
0.28169   -41.336648  -23.929089   -0.356455
-0.002829   -0.224252   -2.174062
0.42253   -41.336648  -23.929089   -0.356455
-0.002829   -0.859933  -15.382649
0.56337   -41.336648  -23.929089   -0.356455
-0.002829   -1.498487  -39.732434

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    21.372696   93.574952    2.693763
 0.001782   1.874792   80.000798
0.14084    21.372696   93.574952    2.693763
 0.001782   0.745302   50.727061
0.28169    21.372696   93.574952    2.693763
 0.001782   0.121939   27.336929
0.42253    21.372696   93.574952    2.693763
 0.001782   0.468452   26.351697
0.56337    21.372696   93.574952    2.693763
 0.001782   0.815461   31.797296
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2869

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -37.893847  -15.452330   -0.826995
-0.002611   -0.571563  -12.582828
0.14084   -37.893847  -15.452330   -0.826995
-0.002611   -0.224551  -16.674468
0.28169   -37.893847  -15.452330   -0.826995
-0.002611   -0.395941  -27.511547
0.42253   -37.893847  -15.452330   -0.826995
-0.002611   -1.518746  -55.439184
0.56337   -37.893847  -15.452330   -0.826995
-0.002611   -2.643983  -93.610880

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    55.550016   88.179778    3.618372
 0.001438   2.519979   69.371254
0.14084    55.550016   88.179778    3.618372
 0.001438   1.002190   48.530969
0.28169    55.550016   88.179778    3.618372
 0.001438   0.210464   46.119795
0.42253    55.550016   88.179778    3.618372
```

0.001438 0.821132 60.230928
0.56337 55.550016 88.179778 3.618372
0.001438 1.431767 78.699752

COMB DL-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-51.782472	-47.022550	-1.455873
-0.003823	-1.009993	-19.076848	
0.14084	-51.782472	-47.022550	-1.455873
-0.003823	-0.399646	-17.261823	
0.28169	-51.782472	-47.022550	-1.455873
-0.003823	-0.520714	-30.629119	
0.42253	-51.782472	-47.022550	-1.455873
-0.003823	-2.034183	-59.502598	
0.56337	-51.782472	-47.022550	-1.455873
-0.003823	-3.548996	-95.227752	

COMB DL-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	50.886211	96.262758	4.056418
0.002492	2.818145	63.099194	
0.14084	50.886211	96.262758	4.056418
0.002492	1.116770	40.594763	
0.28169	50.886211	96.262758	4.056418
0.002492	0.238730	38.914106	
0.42253	50.886211	96.262758	4.056418
0.002492	0.931776	51.509250	
0.56337	50.886211	96.262758	4.056418
0.002492	1.625065	67.827660	

COMB DL-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-54.214846	-41.544204	-1.652503
-0.003196	-1.146312	-20.567992	
0.14084	-54.214846	-41.544204	-1.652503
-0.003196	-0.453175	-23.327885	
0.28169	-54.214846	-41.544204	-1.652503
-0.003196	-0.589094	-42.760448	
0.42253	-54.214846	-41.544204	-1.652503
-0.003196	-2.266832	-75.519991	
0.56337	-54.214846	-41.544204	-1.652503
-0.003196	-3.985760	-114.248852	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	3.335761	31.336517	1.685592
0.002023	1.160873	9.941581	
0.14084	3.335761	31.336517	1.685592
0.002023	0.454009	2.442624	
0.28169	3.335761	31.336517	1.685592
0.002023	0.099738	3.686207	
0.42253	3.335761	31.336517	1.685592
0.002023	0.387255	5.428553	
0.56337	3.335761	31.336517	1.685592
0.002023	0.674658	7.213043	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2870

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-23.956095	-4.505222	-0.685328
-3.07E-06	-0.474312	-3.109138	
0.14084	-23.956095	-4.505222	-0.685328
-3.07E-06	-0.186709	-6.651426	
0.28169	-23.956095	-4.505222	-0.685328
-3.07E-06	-0.252927	-18.371515	
0.42253	-23.956095	-4.505222	-0.685328
-3.07E-06	-0.959792	-31.173198	
0.56337	-23.956095	-4.505222	-0.685328
-3.07E-06	-1.666578	-44.133598	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	26.257683	70.830611	2.768049
0.003289	1.910009	15.902514	
0.14084	26.257683	70.830611	2.768049
0.003289	0.749342	2.476700	
0.28169	26.257683	70.830611	2.768049
0.003289	0.184469	2.871157	
0.42253	26.257683	70.830611	2.768049
0.003289	0.702624	5.022569	
0.56337	26.257683	70.830611	2.768049
0.003289	1.220643	7.525478	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-29.496317	-6.556719	-1.235020
-8.15E-05	-0.849905	-19.858465	
0.14084	-29.496317	-6.556719	-1.235020
-8.15E-05	-0.331897	-36.367005	
0.28169	-29.496317	-6.556719	-1.235020
-8.15E-05	-0.412380	-63.098125	
0.42253	-29.496317	-6.556719	-1.235020
-8.15E-05	-1.572659	-91.655986	
0.56337	-29.496317	-6.556719	-1.235020
-8.15E-05	-2.733248	-120.984815	

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	19.671226	69.679309	3.658635
0.002991	2.523557	31.298591	
0.14084	19.671226	69.679309	3.658635
0.002991	0.989148	16.459483	
0.28169	19.671226	69.679309	3.658635
0.002991	0.194401	15.916761	
0.42253	19.671226	69.679309	3.658635
0.002991	0.749725	19.739147	
0.56337	19.671226	69.679309	3.658635
0.002991	1.304851	24.039352	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-40.486743	-11.838245	-1.323508
-8.94E-06	-0.914314	-13.692531	
0.14084	-40.486743	-11.838245	-1.323508
-8.94E-06	-0.411198	-25.441849	
0.28169	-40.486743	-11.838245	-1.323508
-8.94E-06	-0.545666	-45.722243	
0.42253	-40.486743	-11.838245	-1.323508
-8.94E-06	-2.079812	-73.151625	
0.56337	-40.486743	-11.838245	-1.323508
-8.94E-06	-3.613971	-101.478514	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	35.351652	105.413831	4.177379
0.002967	2.896067	71.644620	
0.14084	35.351652	105.413831	4.177379
0.002967	1.143887	44.195379	
0.28169	35.351652	105.413831	4.177379
0.002967	0.228271	36.281788	
0.42253	35.351652	105.413831	4.177379
0.002967	0.887388	44.384465	
0.56337	35.351652	105.413831	4.177379
0.002967	1.546473	56.383525	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2871

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-63.760257	-31.320474	-1.571358
-0.002643	-1.088560	-15.361790	
0.14084	-63.760257	-31.320474	-1.571358
-0.002643	-0.429527	-21.907950	
0.28169	-63.760257	-31.320474	-1.571358
-0.002643	-0.613785	-42.784018	
0.42253	-63.760257	-31.320474	-1.571358
-0.002643	-2.361641	-79.198465	
0.56337	-63.760257	-31.320474	-1.571358
-0.002643	-4.110918	-122.179631	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	63.885188	100.163111	2.548095
0.003260	1.770415	88.005306	
0.14084	63.885188	100.163111	2.548095
0.003260	0.701945	64.778119	
0.28169	63.885188	100.163111	2.548095
0.003260	0.137717	61.987347	
0.42253	63.885188	100.163111	2.548095
0.003260	0.539935	85.246671	
0.56337	63.885188	100.163111	2.548095
0.003260	0.942247	114.814012	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-59.354610	-74.508389	-0.959379
-0.006366	-0.666999	-31.285879	
0.14084	-59.354610	-74.508389	-0.959379
-0.006366	-0.264589	-38.897381	
0.28169	-59.354610	-74.508389	-0.959379
-0.006366	-0.376905	-58.341477	
0.42253	-59.354610	-74.508389	-0.959379
-0.006366	-1.438820	-79.996507	
0.56337	-59.354610	-74.508389	-0.959379
-0.006366	-2.503985	-107.193761	

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	82.387028	105.413831	4.177379
0.003289	2.896067	97.271723	
0.14084	82.387028	105.413831	4.177379
0.003289	1.143887	69.603797	
0.28169	82.387028	105.413831	4.177379
0.003289	0.263438	66.358168	
0.42253	82.387028	105.413831	4.177379
0.003289	1.029507	92.093201	
0.56337	82.387028	105.413831	4.177379
0.003289	1.795544	126.662235	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-63.760257	-86.163168	-1.826395
-0.007206	-1.267571	-35.864060	
0.14084	-63.760257	-86.163168	-1.826395
-0.007206	-0.501441	-36.367005	
0.28169	-63.760257	-86.163168	-1.826395
-0.007206	-0.613785	-63.098125	
0.42253	-63.760257	-86.163168	-1.826395
-0.007206	-2.361641	-91.655986	
0.56337	-63.760257	-86.163168	-1.826395
-0.007206	-4.110918	-122.179631	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	82.387028	105.413831	4.177379
0.003289	2.896067	97.271723	
0.14084	82.387028	105.413831	4.177379
0.003289	1.143887	69.603797	
0.28169	82.387028	105.413831	4.177379
0.003289	0.263438	66.358168	
0.42253	82.387028	105.413831	4.177379
0.003289	1.029507	92.093201	
0.56337	82.387028	105.413831	4.177379
0.003289	1.795544	126.662235	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2872

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-63.760257	-86.163168	-1.826395
-0.007206	-1.267571	-35.864060	
0.14084	-63.760257	-86.163168	-1.826395
-0.007206	-0.501441	-38.897381	
0.28169	-63.760257	-86.163168	-1.826395
-0.007206	-0.613785	-63.098125	
0.42253	-63.760257	-86.163168	-1.826395
-0.007206	-2.361641	-91.655986	
0.56337	-63.760257	-86.163168	-1.826395
-0.007206	-4.110918	-122.179631	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	82.387028	105.413831	4.177379
0.003289	2.896067	97.271723	
0.14084	82.387028	105.413831	4.177379
0.003289	1.143887	69.603797	
0.28169	82.387028	105.413831	4.177379
0.003289	0.263438	66.358168	
0.42253	82.387028	105.413831	4.177379
0.003289	1.029507	92.093201	
0.56337	82.387028	105.413831	4.177379
0.003289	1.795544	126.662235	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-63.760257	-86.163168	-1.826395
-0.007206	-1.267571	-35.864060	
0.14084	-63.760257	-86.163168	-1.826395
-0.007206	-0.501441	-38.897381	
0.28169	-63.760257	-86.163168	-1.826395
-0.007206	-0.613785	-63.098125	
0.42253	-63.760257	-86.163168	-1.826395
-0.007206	-2.361641	-91.655986	
0.56337	-63.760257	-86.163168	-1.826395
-0.007206	-4.110918	-122.179631	

ELEM 266 ========== LENGTH = 2.977820

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	66.020698	7.978404	0.840930
2.17E-05	0.882268	14.661298	
0.57742	66.020698	7.978404	0.840930
2.17E-05	0.529536	11.318598	
0.71828	66.020698	7.978404	0.840930
2.17E-05	0.176804	7.998957	
0.85914	66.020698	7.978404	0.840930
2.17E-05	0.105368	4.738029	
1.00000	66.020698	7.978404	0.840930
2.17E-05	0.312736	3.086067	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-10.028082	-109.626030	-0.494343
-0.002608	-0.516683	-201.784614	
0.57742	-10.028082	-109.626030	-0.494343
-0.002608	-0.309328	-155.818056	
0.71828	-10.028082	-109.626030	-0.494343
-0.002608	-0.101961	-109.867238	
0.85914	-10.028082	-109.626030	-0.494343
-0.002608	-0.175935	-64.074712	
1.00000	-10.028082	-109.626030	-0.494343
-0.002608	-0.528661	-18.432664	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	75.081173	34.152672	1.520444
0.001580	1.592135	59.532232	
0.57742	75.081173	34.152672	1.520444
0.001580	0.954399	46.328641	
0.71828	75.081173	34.152672	1.520444
0.001580	0.316661	41.515121	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2873

FRAME ELEMENT INTERNAL FORCES

REL DIST T	P M2	V2 M3	V3
0.85914	75.081173	34.152672	1.520444
0.001580	0.151248	54.537621	
1.00000	75.081173	34.152672	1.520444
0.001580	0.449304	75.346119	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-60.183918	-180.466488	-0.710504
-0.003901	-0.742793	-251.487801	
0.57742	-60.183918	-180.466488	-0.710504
-0.003901	-0.444769	-180.732727	
0.71828	-60.183918	-180.466488	-0.710504
-0.003901	-0.146715	-124.647104	
0.85914	-60.183918	-180.466488	-0.710504
-0.003901	-0.321268	-70.214043	
1.00000	-60.183918	-180.466488	-0.710504
-0.003901	-0.958986	-27.068395	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	69.160794	68.508143	2.023754
0.002152	2.117178	123.768485	
0.57742	69.160794	68.508143	2.023754
0.002152	1.268311	95.788481	
0.71828	69.160794	68.508143	2.023754
0.002152	0.419444	73.489566	
0.85914	69.160794	68.508143	2.023754
0.002152	0.429161	63.104865	
1.00000	69.160794	68.508143	2.023754
0.002152	0.520499	57.129064	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-50.189883	-146.471837	-0.823159
-0.003273	-0.860613	-218.144062	
0.57742	-50.189883	-146.471837	-0.823159
-0.003273	-0.515335	-160.065714	
0.71828	-50.189883	-146.471837	-0.823159
-0.003273	-0.169899	-111.978609	
0.85914	-50.189883	-146.471837	-0.823159
-0.003273	-0.429557	-64.031747	
1.00000	-50.189883	-146.471837	-0.823159
-0.003273	-1.278409	-22.928928	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	83.247682	101.013497	2.184506
0.002722	2.284396	177.530226	
0.57742	83.247682	101.013497	2.184506
0.002722	1.368010	136.045561	
0.71828	83.247682	101.013497	2.184506
0.002722	0.451803	99.403254	
0.85914	83.247682	101.013497	2.184506
0.002722	0.185817	73.131834	
1.00000	83.247682	101.013497	2.184506
0.002722	0.551861	52.360405	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-50.196070	-125.202769	-0.872498
-0.002725	-0.912033	-188.454453	
0.57742	-50.196070	-125.202769	-0.872498
-0.002725	-0.546060	-138.727539	
0.71828	-50.196070	-125.202769	-0.872498
-0.002725	-0.180022	-97.289401	
0.85914	-50.196070	-125.202769	-0.872498
-0.002725	-0.464605	-56.745471	
1.00000	-50.196070	-125.202769	-0.872498
-0.002725	-1.380886	-32.648921	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	6.277536	34.064583	0.783310
0.001752	0.817739	65.173273	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2874

FRAME ELEMENT INTERNAL FORCES

REL DIST T	P M2	V2 M3	V3
0.57742	6.277536	34.064583	0.783310
0.001752	0.489176	51.818502	
0.71828	6.277536	34.064583	0.783310
0.001752	0.160607	45.448398	
0.85914	6.277536	34.064583	0.783310
0.001752	0.046999	54.066566	
1.00000	6.277536	34.064583	0.783310
0.001752	0.140042	69.269511	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-58.110443	-56.629966	-0.221680
-0.000921	-0.231896	-33.793417	
0.57742	-58.110443	-56.629966	-0.221680
-0.000921	-0.138912	-14.156618	
0.71828	-58.110443	-56.629966	-0.221680
-0.000921	-0.045868	-6.796926	
0.85914	-58.110443	-56.629966	-0.221680
-0.000921	-0.168357	-2.556871	
1.00000	-58.110443	-56.629966	-0.221680
-0.000921	-0.496578	-8.231125	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	27.104523	89.799928	1.470486
0.002865	1.535388	157.661964	
0.57742	27.104523	89.799928	1.470486
0.002865	0.918586	121.091955	
0.71828	27.104523	89.799928	1.470486
0.002865	0.301782	91.132637	
0.85914	27.104523	89.799928	1.470486
0.002865	0.090750	75.205807	
1.00000	27.104523	89.799928	1.470486
0.002865	0.269870	64.091614	

COMB DB-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-49.093349	-43.835844	-0.426796
-0.000774	-0.446217	-24.736429	
0.57742	-49.093349	-43.835844	-0.426796
-0.000774	-0.267195	-10.180543	
0.71828	-49.093349	-43.835844	-0.426796
-0.000774	-0.088101	-7.054234	
0.85914	-49.093349	-43.835844	-0.426796
-0.000774	-0.315115	-5.113715	
1.00000	-49.093349	-43.835844	-0.426796
-0.000774	-0.931882	-18.391339	

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	58.307881	93.640053	1.999402
0.002386	2.090084	172.428792	
0.57742	58.307881	93.640053	1.999402
0.002386	1.251425	133.974104	
0.71828	58.307881	93.640053	1.999402
0.002386	0.412764	100.220463	
0.85914	58.307881	93.640053	1.999402
0.002386	0.152581	76.479833	
1.00000	58.307881	93.640053	1.999402
0.002386	0.453514	59.873317	

COMB DB-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-56.226627	-98.759793	-0.717201
-0.002125	-0.749820	-136.479262	
0.57742	-56.226627	-98.759793	-0.717201
-0.002125	-0.448987	-97.846015	
0.71828	-56.226627	-98.759793	-0.717201
-0.002125	-0.148028	-67.358524	
0.85914	-56.226627	-98.759793	-0.717201
-0.002125	-0.425944	-38.020480	
1.00000	-56.226627	-98.759793	-0.717201
-0.002125	-1.264595	-22.227834	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2875

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	54.827929	116.866025	2.161380
0.002897	2.258609	214.311373	
0.57742	54.827929	116.866025	2.161380
0.002897	1.352007	166.022198	
0.71828	54.827929	116.866025	2.161380
0.002897	0.445405	121.694653	
0.85914	54.827929	116.866025	2.161380
0.002897	0.171085	85.835110	
1.00000	54.827929	116.866025	2.161380
0.002897	0.508355	56.442798	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-59.280248	-86.375108	-0.803865
-0.001772	-0.840385	-121.785741	
0.57742	-59.280248	-86.375108	-0.803865
-0.001772	-0.503200	-87.881981	
0.71828	-59.280248	-86.375108	-0.803865
-0.001772	-0.165925	-60.801684	
0.85914	-59.280248	-86.375108	-0.803865
-0.001772	-0.461247	-34.509789	
1.00000	-59.280248	-86.375108	-0.803865
-0.001772	-1.367840	-21.999210	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	3.374071	55.641651	0.757409
0.001397	0.790222	104.571886	
0.57742	3.374071	55.641651	0.757409
0.001397	0.472523	81.304701	
0.71828	3.374071	55.641651	0.757409
0.001397	0.154824	58.064154	
0.85914	3.374071	55.641651	0.757409
0.001397	0.069734	34.823933	
1.00000	3.374071	55.641651	0.757409
0.001397	0.207330	12.045040	

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-24.219064	-6.724270	-0.327887
-1.60E-06	-0.342806	-13.269345	
0.57742	-24.219064	-6.724270	-0.327887
-1.60E-06	-0.205273	-10.454216	
0.71828	-24.219064	-6.724270	-0.327887
-1.60E-06	-0.067736	-7.654933	
0.85914	-24.219064	-6.724270	-0.327887
-1.60E-06	-0.162878	-4.962521	
1.00000	-24.219064	-6.724270	-0.327887
-1.60E-06	-0.480574	-2.786636	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	38.688827	110.016792	1.358576
0.002549	1.418113	192.820598	
0.57742	38.688827	110.016792	1.358576
0.002549	0.848251	147.308076	
0.71828	38.688827	110.016792	1.358576
0.002549	0.278391	102.325143	
0.85914	38.688827	110.016792	1.358576
0.002549	0.112148	58.676788	
1.00000	38.688827	110.016792	1.358576
0.002549	0.332965	18.260616	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-30.661500	-11.080965	-0.526266
-3.25E-05	-0.550014	-19.786944	
0.57742	-30.661500	-11.080965	-0.526266
-3.25E-05	-0.329269	-15.297488	
0.71828	-30.661500	-11.080965	-0.526266
-3.25E-05	-0.108456	-11.280173	
0.85914	-30.661500	-11.080965	-0.526266
-3.25E-05	-0.291477	-9.497251	
1.00000	-30.661500	-11.080965	-0.526266
-3.25E-05	-0.861340	-21.652621	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2876

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	22.312746	124.952843	1.886354
0.003136	1.968993	229.714383	
0.57742	22.312746	124.952843	1.886354
0.003136	1.177752	177.568123	
0.71828	22.312746	124.952843	1.886354
0.003136	0.386515	126.002177	
0.85914	22.312746	124.952843	1.886354

```
 0.003136    0.139201   75.725287
 1.00000    22.312746  124.952843     1.886354
 0.003136    0.413692   27.311868

COMB DB-G3-3 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -44.992265  -11.323043  -0.654148
-5.13E-05   -0.683851   -18.854623
0.57742  -44.992265  -11.323043  -0.654148
-5.13E-05   -0.409465   -14.497623
0.71828  -44.992265  -11.323043  -0.654148
-5.13E-05   -0.134978   -10.893893
0.85914  -44.992265  -11.323043  -0.654148
-5.13E-05   -0.404735   -8.185886
1.00000  -44.992265  -11.323043  -0.654148
-5.13E-05   -1.195975  -12.323134

COMB DB-G3-4 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   35.778337  129.386277   2.141315
 0.003288    2.236463  239.738727
0.57742   35.778337  129.386277   2.141315
 0.003288    1.338289  186.241818
0.71828   35.778337  129.386277   2.141315
 0.003288    0.440118  138.186227
0.85914   35.778337  129.386277   2.141315
 0.003288    0.163777  100.946783
1.00000   35.778337  129.386277   2.141315
 0.003288    0.486878   67.806822

COMB DB-G3-4 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -75.937242  -68.026578  -0.770007
-0.001272   -0.805053   -82.472819
0.57742  -75.937242  -68.026578  -0.770007
-0.001272   -0.482067   -56.690957
0.71828  -75.937242  -68.026578  -0.770007
-0.001272   -0.158986   -38.961188
0.85914  -75.937242  -68.026578  -0.770007
-0.001272   -0.456168   -22.245553
1.00000  -75.937242  -68.026578  -0.770007
-0.001272   -1.356330   -17.138340

COMB DL-G1-1 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   95.563588   10.493347   1.630322
 1.61E-05    1.707774   20.993111
0.57742   95.563588   10.493347   1.630322
 1.61E-05    1.023742   16.643287
0.71828   95.563588   10.493347   1.630322
 1.61E-05    0.339346   12.320929
0.85914   95.563588   10.493347   1.630322
 1.61E-05    0.214262    8.053742
1.00000   95.563588   10.493347   1.630322
 1.61E-05    0.636951    4.521935

COMB DL-G1-1 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -19.212809  -138.695252  -1.007482
-0.003134   -1.053298  -258.827802
0.57742  -19.212809  -138.695252  -1.007482
-0.003134   -0.630655  -200.701394
0.71828  -19.212809  -138.695252  -1.007482
-0.003134   -0.207941  -142.612978
0.85914  -19.212809  -138.695252  -1.007482
-0.003134   -0.342541   -84.664977
1.00000  -19.212809  -138.695252  -1.007482
-0.003134   -1.026965  -26.953578
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2877

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   109.349410   42.010438   2.814823
 0.001353    2.943082   71.503903
0.57742   109.349410   42.010438   2.814823
 0.001353    1.761968   55.029589
0.71828   109.349410   42.010438   2.814823
 0.001353    0.580268   44.004031
0.85914   109.349410   42.010438   2.814823
 0.001353    0.592388   55.475155
1.00000   109.349410   42.010438   2.814823
 0.001353    0.881728   71.106157

COMB DL-G1-2 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -65.279082  -208.829509  -1.395070
-0.004272   -1.458647  -314.553616
0.57742  -65.279082  -208.829509  -1.395070
-0.004272   -0.873703  -227.960327
0.71828  -65.279082  -208.829509  -1.395070
-0.004272   -0.288401  -158.709571
0.85914  -65.279082  -208.829509  -1.395070
-0.004272   -0.596588   -91.574706
1.00000  -65.279082  -208.829509  -1.395070
-0.004272   -1.778167   -36.742152

COMB DL-G1-3 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   102.944038   81.910645   3.474918
 0.001974    3.632597  147.809567
0.57742   102.944038   81.910645   3.474918
 0.001974    2.174989  114.317716
0.71828   102.944038   81.910645   3.474918
 0.001974    0.716420   84.684129
0.85914   102.944038   81.910645   3.474918
 0.001974    0.327672   70.922186
1.00000   102.944038   81.910645   3.474918
 0.001974    0.974119   59.704571

COMB DL-G1-3 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -61.973867  -175.037652  -1.540545
-0.003670   -1.610648  -276.668492
0.57742  -61.973867  -175.037652  -1.540545
-0.003670   -0.964502  -204.015894
0.71828  -61.973867  -175.037652  -1.540545
-0.003670   -0.318069  -143.667776
0.85914  -61.973867  -175.037652  -1.540545
-0.003670   -0.737856   -84.150025
1.00000  -61.973867  -175.037652  -1.540545
-0.003670   -2.196365   -33.611237

COMB DL-G1-4 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   104.576803   122.620283   3.668127
 0.002636    3.834375  215.593265
0.57742   104.576803   122.620283   3.668127
 0.002636    2.295708  164.978524
0.71828   104.576803   122.620283   3.668127
 0.002636    0.756294  117.638460
0.85914   104.576803   122.620283   3.668127
 0.002636    0.349970   83.906720
1.00000   104.576803   122.620283   3.668127
 0.002636    1.039869   55.184861

COMB DL-G1-4 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -61.346030  -149.702449  -1.644375
-0.003057   -1.718601  -238.979747
0.57742  -61.346030  -149.702449  -1.644375
-0.003057   -1.028893  -176.823008
0.71828  -61.346030  -149.702449  -1.644375
-0.003057   -0.338993  -124.888650
0.85914  -61.346030  -149.702449  -1.644375
-0.003057   -0.779743   -75.135594
1.00000  -61.346030  -149.702449  -1.644375
-0.003057   -2.318987   -38.505708
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2878

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   10.572231   34.293315   1.244094
 0.001321    1.297680   65.424442
0.57742   10.572231   34.293315   1.244094
 0.001321    0.775645   51.880827
0.71828   10.572231   34.293315   1.244094
 0.001321    0.253590   42.184996
0.85914   10.572231   34.293315   1.244094
 0.001321    0.073129   48.380287
1.00000   10.572231   34.293315   1.244094
 0.001321    0.218269   58.209052

COMB DL-G2-1 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -51.479938  -49.649979  -0.345662
-0.000711   -0.361663   -35.969631
0.57742  -51.479938  -49.649979  -0.345662
-0.000711   -0.216718   -15.839201
0.71828  -51.479938  -49.649979  -0.345662
-0.000711   -0.071592    7.893162
0.85914  -51.479938  -49.649979  -0.345662
-0.000711   -0.267127   -31.189006
1.00000  -51.479938  -49.649979  -0.345662
-0.000711   -0.789148   -8.454830

COMB DL-G2-2 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   27.366822   101.580592   2.233104
 0.002508    2.331153  178.839995
0.57742   27.366822   101.580592   2.233104
 0.002508    1.394517  137.059297
0.71828   27.366822   101.580592   2.233104
 0.002508    0.457929   99.050691
0.85914   27.366822   101.580592   2.233104
 0.002508    0.152743   76.430647
1.00000   27.366822   101.580592   2.233104
 0.002508    0.453406   57.643054

COMB DL-G2-2 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -49.084414  -38.697789  -0.716595
-0.000601   -0.748831   -28.544783
0.57742  -49.084414  -38.697789  -0.716595
-0.000601   -0.448279   -12.968984
0.71828  -49.084414  -38.697789  -0.716595
-0.000601   -0.147652    -9.059705
0.85914  -49.084414  -38.697789  -0.716595
-0.000601   -0.478215    -7.513202
1.00000  -49.084414  -38.697789  -0.716595
-0.000601   -1.414731   -17.396716

COMB DL-G2-3 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   72.691958   107.491872   3.303186
 0.002069    3.451527  199.745016
0.57742   72.691958   107.491872   3.303186
 0.002069    2.065885  155.283772
0.71828   72.691958   107.491872   3.303186
 0.002069    0.679819  113.365149
0.85914   72.691958   107.491872   3.303186
 0.002069    0.280306   81.692181
1.00000   72.691958   107.491872   3.303186
 0.002069    0.833033   53.886085

COMB DL-G2-3 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -67.593104  -108.901099  -1.317298
-0.002224   -1.377092  -166.570589
0.57742  -67.593104  -108.901099  -1.317298
-0.002224   -0.824490  -121.561746
0.71828  -67.593104  -108.901099  -1.317298
-0.002224   -0.271941   -84.243235
0.85914  -67.593104  -108.901099  -1.317298
-0.002224   -0.702943   -49.064243
1.00000  -67.593104  -108.901099  -1.317298
-0.002224   -2.089057   -23.604427
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2879

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   66.385214   139.674512   3.576584
 0.002727    3.736954  257.275235
0.57742   66.385214   139.674512   3.576584
 0.002727    2.236693  199.249677
0.71828   66.385214   139.674512   3.576584
 0.002727    0.736067  143.358522
0.85914   66.385214   139.674512   3.576584
 0.002727    0.313430   96.053886
1.00000   66.385214   139.674512   3.576584
 0.002727    0.931314   52.771393

COMB DL-G2-4 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -70.990473   -95.569576  -1.472851
-0.001855   -1.539380  -149.095667
0.57742  -70.990473   -95.569576  -1.472851
-0.001855   -0.921440  -109.467706
0.71828  -70.990473   -95.569576  -1.472851
-0.001855   -0.303734   -76.298385
0.85914  -70.990473   -95.569576  -1.472851
-0.001855   -0.762159   -44.620396
1.00000  -70.990473   -95.569576  -1.472851
-0.001855   -2.262753   -23.488817

COMB DL-G3-1 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   4.349012   69.948428   1.293153
 0.001601    1.350126  132.889243
0.57742   4.349012   69.948428   1.293153
 0.001601    0.807726  103.612870
0.71828   4.349012   69.948428   1.293153
 0.001601    0.265409   74.351407
0.85914   4.349012   69.948428   1.293153
 0.001601    0.121869   45.142115
1.00000   4.349012   69.948428   1.293153
 0.001601    0.362507   16.180743

COMB DL-G3-1 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -31.746388   -8.414228  -0.573414
-9.47E-07   -0.599018  -16.913218
0.57742  -31.746388   -8.414228  -0.573414
-9.47E-07   -0.358464  -13.394020
0.71828  -31.746388   -8.414228  -0.573414
-9.47E-07   -0.117728   -9.899297
0.85914  -31.746388   -8.414228  -0.573414
-9.47E-07   -0.277340   -6.547735
1.00000  -31.746388   -8.414228  -0.573414
-9.47E-07   -0.819630   -3.507607

COMB DL-G3-2 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   33.536242   137.015556   2.211276
 0.002825    2.309922  243.547487
0.57742   33.536242   137.015556   2.211276
 0.002825    1.382363  186.229936
0.71828   33.536242   137.015556   2.211276
 0.002825    0.455063  129.199426
0.85914   33.536242   137.015556   2.211276
 0.002825    0.209237   73.396784
1.00000   33.536242   137.015556   2.211276
 0.002825    0.622139   21.957350

COMB DL-G3-2 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -39.071596  -12.774909  -0.983607
-1.90E-05   -1.027052   -25.217191
0.57742  -39.071596  -12.774909  -0.983607
-1.90E-05   -0.614374   -19.886257
0.71828  -39.071596  -12.774909  -0.983607
-1.90E-05   -0.201527   -14.917210
0.85914  -39.071596  -12.774909  -0.983607
-1.90E-05   -0.473097   -13.167453
1.00000  -39.071596  -12.774909  -0.983607
-1.90E-05   -1.400432   -19.474494
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2880

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   25.247305   148.734005   2.944976
 0.003173    3.075261  276.588431
0.57742   25.247305   148.734005   2.944976
 0.003173    1.840185  214.334649
0.71828   25.247305   148.734005   2.944976
 0.003173    0.605107  152.249069
0.85914   25.247305   148.734005   2.944976
 0.003173    0.236854   90.777157
1.00000   25.247305   148.734005   2.944976
 0.003173    0.703901   31.667321

COMB DL-G3-3 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -55.725722  -12.616270  -1.112804
-4.66E-06   -1.162309   -24.719673
0.57742  -55.725722  -12.616270  -1.112804
-4.66E-06   -0.695502   -19.489773
0.71828  -55.725722  -12.616270  -1.112804
-4.66E-06   -0.228536   -14.395292
0.85914  -55.725722  -12.616270  -1.112804
-4.66E-06   -0.630003   -11.847102
1.00000  -55.725722  -12.616270  -1.112804
-4.66E-06   -1.864971   -13.420307

COMB DL-G3-4 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   45.868182   151.995641   3.515517
 0.003114    3.671505  284.593114
0.57742   45.868182   151.995641   3.515517
 0.003114    2.196918  221.399559
0.71828   45.868182   151.995641   3.515517
 0.003114    0.722237  160.529651
0.85914   45.868182   151.995641   3.515517
 0.003114    0.292301  109.098369
1.00000   45.868182   151.995641   3.515517
 0.003114    0.869086   61.507437

COMB DL-G3-4 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -83.498534  -70.634044  -1.374474
-0.001193   -0.859805   -70.636318
0.57742  -83.498534  -70.634044  -1.374474
-0.001193   -0.859805   -70.720685
0.71828  -83.498534  -70.634044  -1.374474
-0.001193   -0.283073   -48.680531
0.85914  -83.498534  -70.634044  -1.374474
-0.001193   -0.751109   -29.129613
1.00000  -83.498534  -70.634044  -1.374474
-0.001193   -2.225632   -18.743120

COMB      DB ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   83.247682   129.386277   2.184506
 0.003288    2.284396  239.738727
0.57742   83.247682   129.386277   2.184506
 0.003288    1.368100  186.241818
0.71828   83.247682   129.386277   2.184506
 0.003288    0.451803  138.186227
0.85914   83.247682   129.386277   2.184506
 0.003288    0.535517  100.946783
1.00000   83.247682   129.386277   2.184506
 0.003288    0.551861   75.346119

COMB      DB ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -75.937242  -180.466488  -0.872498
-0.003901   -0.912033  -251.487801
0.57742  -75.937242  -180.466488  -0.872498
-0.003901   -0.546060  -180.732727
0.71828  -75.937242  -180.466488  -0.872498
-0.003901   -0.180022  -124.647104
0.85914  -75.937242  -180.466488  -0.872498
-0.003901   -0.464605   -70.214043
1.00000  -75.937242  -180.466488  -0.872498
-0.003901   -1.380886   -32.648921
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2881

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   109.349410   151.995641   3.668127
 0.003173    3.834375  284.593114
0.57742   109.349410   151.995641   3.668127
 0.003173    2.295708  221.399559
0.71828   109.349410   151.995641   3.668127
 0.003173    0.756294  160.529651
0.85914   109.349410   151.995641   3.668127
 0.003173    0.349970  109.098369
1.00000   109.349410   151.995641   3.668127
 0.003173    1.039869   71.106157

COMB      DL ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -83.498534  -208.829509  -1.644375
-0.004272   -1.718601  -314.553616
0.57742  -83.498534  -208.829509  -1.644375
-0.004272   -1.028893  -227.960327
0.71828  -83.498534  -208.829509  -1.644375
-0.004272   -0.338993  -158.709571
0.85914  -83.498534  -208.829509  -1.644375
-0.004272   -0.779743   -91.574706
1.00000  -83.498534  -208.829509  -1.644375
-0.004272   -2.318987   -38.505708

COMB      CAR ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   109.349410   151.995641   3.668127
 0.003288    3.834375  284.593114
0.57742   109.349410   151.995641   3.668127
 0.003288    2.295708  221.399559
0.71828   109.349410   151.995641   3.668127
 0.003288    0.756294  160.529651
0.85914   109.349410   151.995641   3.668127
 0.003288    0.349970  109.098369
1.00000   109.349410   151.995641   3.668127
 0.003288    1.039869   75.346119

COMB      CAR ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -83.498534  -208.829509  -1.644375
-0.004272   -1.718601  -314.553616
0.57742  -83.498534  -208.829509  -1.644375
-0.004272   -1.028893  -227.960327
0.71828  -83.498534  -208.829509  -1.644375
-0.004272   -0.338993  -158.709571
0.85914  -83.498534  -208.829509  -1.644375
-0.004272   -0.779743   -91.574706
1.00000  -83.498534  -208.829509  -1.644375
-0.004272   -2.318987   -38.505708

COMB  DESIGN ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.43656   109.349410   151.995641   3.668127
 0.003288    3.834375  284.593114
0.57742   109.349410   151.995641   3.668127
 0.003288    2.295708  221.399559
0.71828   109.349410   151.995641   3.668127
 0.003288    0.756294  160.529651
0.85914   109.349410   151.995641   3.668127
 0.003288    0.349970  109.098369
1.00000   109.349410   151.995641   3.668127
 0.003288    1.039869   75.346119

COMB  DESIGN ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.43656  -83.498534  -208.829509  -1.644375
-0.004272   -1.718601  -314.553616
0.57742  -83.498534  -208.829509  -1.644375
-0.004272   -1.028893  -227.960327
0.71828  -83.498534  -208.829509  -1.644375
-0.004272   -0.338993  -158.709571
0.85914  -83.498534  -208.829509  -1.644375
-0.004272   -0.779743   -91.574706
1.00000  -83.498534  -208.829509  -1.644375
-0.004272   -2.318987   -38.505708
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2882

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      267 ================== LENGTH =    2.976890

COMB DB-G1-1 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.00000   64.977931    7.967623   0.511816
 4.96E-06    0.329868    3.086105
0.14083   64.977931    7.967623   0.511816
 4.96E-06    0.115296   27.983540
0.28165   64.977931    7.967623   0.511816
 4.96E-06    0.094731   73.500037
0.42248   64.977931    7.967623   0.511816
 4.96E-06    0.291421  119.016840
0.56330   64.977931    7.967623   0.511816
 4.96E-06    0.488091  164.603949

COMB DB-G1-1 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.00000   -9.464291  -108.695579  -0.469136
-0.002464   -0.298604   -18.435788
0.14083   -9.464291  -108.695579  -0.469136
-0.002464   -0.101930    -2.496826
0.28165   -9.464291  -108.695579  -0.469136
-0.002464   -0.094464    -5.681276
0.42248   -9.464291  -108.695579  -0.469136
-0.002464   -0.313827    -8.906436
0.56330   -9.464291  -108.695579  -0.469136
-0.002464   -0.528392   -12.147268

COMB DB-G1-2 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.00000   73.172422   73.704346   1.205249
 0.000974    0.770987   75.346170
0.14083   73.172422   73.704346   1.205249
 0.000974    0.266268   82.576093
0.28165   73.172422   73.704346   1.205249
 0.000974    0.134649  110.047203
0.42248   73.172422   73.704346   1.205249
 0.000974    0.414697  168.180474
0.56330   73.172422   73.704346   1.205249
 0.000974    0.694692  229.861325

COMB DB-G1-2 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.00000   -64.340151  -147.443249  -0.667902
-0.004507   -0.425306   -27.071706
0.14083   -64.340151  -147.443249  -0.667902
-0.004507   -0.145258    -5.265474
0.28165   -64.340151  -147.443249  -0.667902
-0.004507   -0.241385    -9.455659
0.42248   -64.340151  -147.443249  -0.667902
-0.004507   -0.746101   -27.655547
0.56330   -64.340151  -147.443249  -0.667902
-0.004507   -1.251359   -56.129548

COMB DB-G1-3 ------------------ MAX

REL DIST         P          V2         V3
      T         M2          M3
0.00000   67.585946   96.143597   1.767503
 0.001328    1.127393   57.113040
0.14083   67.585946   96.143597   1.767503
 0.001328    0.388152   58.700050
0.28165   67.585946   96.143597   1.767503
 0.001328    0.156583   87.052044
0.42248   67.585946   96.143597   1.767503
 0.001328    0.482408  136.287318
0.56330   67.585946   96.143597   1.767503
 0.001328    0.808135  187.850770

COMB DB-G1-3 ------------------ MIN

REL DIST         P          V2         V3
      T         M2          M3
0.00000   -53.898350  -123.720620  -0.776987
-0.003670   -0.494787   -22.931910
0.14083   -53.898350  -123.720620  -0.776987
-0.003670   -0.168983   -13.198179
0.28165   -53.898350  -123.720620  -0.776987
-0.003670   -0.355779   -36.099150
Program    SAP2000    Nonlinear    Version    7.42
```

File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2883

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42248 -53.898350 -123.720620 -0.776987
-0.003670 -1.096413 -68.544397
0.56330 -53.898350 -123.720620 -0.776987
-0.003670 -1.837384 -107.597531

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 81.847003 124.482739 2.027683
0.002235 1.291783 52.362436
0.14083 81.847003 124.482739 2.027683
0.002235 0.443173 49.176303
0.28165 81.847003 124.482739 2.027683
0.002235 0.169600 74.049550
0.42248 81.847003 124.482739 2.027683
0.002235 0.522064 116.465488
0.56330 81.847003 124.482739 2.027683
0.002235 0.874424 160.814955

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -54.141489 -106.383372 -0.840512
-0.003055 -0.535021 -32.650768
0.14083 -54.141489 -106.383372 -0.840512
-0.003055 -0.182582 -38.259115
0.28165 -54.141489 -106.383372 -0.840512
-0.003055 -0.409348 -73.297344
0.42248 -54.141489 -106.383372 -0.840512
-0.003055 -1.259109 -118.182148
0.56330 -54.141489 -106.383372 -0.840512
-0.003055 -2.109145 -169.033212

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.808406 67.435841 0.842090
0.000887 0.534701 69.269775
0.14083 5.808406 67.435841 0.842090
0.000887 0.183811 50.358238
0.28165 5.808406 67.435841 0.842090
0.000887 0.040956 32.201355
0.42248 5.808406 67.435841 0.842090
0.000887 0.126503 40.114882
0.56330 5.808406 67.435841 0.842090
0.000887 0.212011 51.749797

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -62.427585 -29.894101 -0.203968
-0.001332 -0.130022 -8.231146
0.14083 -62.427585 -29.894101 -0.203968
-0.001332 -0.044459 -2.057241
0.28165 -62.427585 -29.894101 -0.203968
-0.001332 -0.172882 -5.409535
0.42248 -62.427585 -29.894101 -0.203968
-0.001332 -0.525444 -23.797466
0.56330 -62.427585 -29.894101 -0.203968
-0.001332 -0.878459 -50.451365

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.696696 121.717706 1.559754
0.002035 0.990713 64.093435
0.14083 26.696696 121.717706 1.559754
0.002035 0.338814 32.925311
0.28165 26.696696 121.717706 1.559754
0.002035 0.082117 13.735042
0.42248 26.696696 121.717706 1.559754
0.002035 0.253135 18.653339
0.56330 26.696696 121.717706 1.559754
0.002035 0.424036 26.237721

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -54.391150 -18.872603 -0.407655
-0.001240 -0.259555 -18.390980
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2884

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14083 -54.391150 -18.872603 -0.407655
-0.001240 -0.088593 -30.629865
0.28165 -54.391150 -18.872603 -0.407655
-0.001240 -0.318530 -61.063487
0.42248 -54.391150 -18.872603 -0.407655
-0.001240 -0.971978 -102.668233
0.56330 -54.391150 -18.872603 -0.407655
-0.001240 -1.625853 -152.113825

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 56.977762 116.343864 1.901887
0.001799 1.210657 59.874336
0.14083 56.977762 116.343864 1.901887
0.001799 0.414772 47.817078
0.28165 56.977762 116.343864 1.901887
0.001799 0.137389 51.567825
0.42248 56.977762 116.343864 1.901887
0.001799 0.423303 92.940860
0.56330 56.977762 116.343864 1.901887
0.001799 0.709107 126.528352

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -60.696979 -80.482785 -0.681743
-0.002684 -0.434099 -22.229054
0.14083 -60.696979 -80.482785 -0.681743
-0.002684 -0.148222 -26.424824
0.28165 -60.696979 -80.482785 -0.681743
-0.002684 -0.385026 -59.510027
0.42248 -60.696979 -80.482785 -0.681743
-0.002684 -1.182031 -101.527077
0.56330 -60.696979 -80.482785 -0.681743
-0.002684 -1.979339 -149.152228

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 53.617479 136.424523 2.163418
0.002615 1.375997 56.444713
0.14083 53.617479 136.424523 2.163418
0.002615 0.470223 40.292782
0.28165 53.617479 136.424523 2.163418
0.002615 0.157571 53.419111
0.42248 53.617479 136.424523 2.163418
0.002615 0.485199 81.251284
0.56330 53.617479 136.424523 2.163418
0.002615 0.812730 110.689694

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -63.931806 -71.125579 -0.781277
-0.002240 -0.497384 -21.999889
0.14083 -63.931806 -71.125579 -0.781277
-0.002240 -0.169782 -36.512307
0.28165 -63.931806 -71.125579 -0.781277
-0.002240 -0.438820 -77.075898
0.42248 -63.931806 -71.125579 -0.781277
-0.002240 -1.345515 -128.324543
0.56330 -63.931806 -71.125579 -0.781277
-0.002240 -2.252463 -184.413538

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.655171 56.537034 0.910413
0.001738 0.577351 12.046785
0.14083 3.655171 56.537034 0.910413
0.001738 0.195689 2.706239
0.28165 3.655171 56.537034 0.910413
0.001738 0.068614 3.723648
0.42248 3.655171 56.537034 0.910413
0.001738 0.210962 6.484015
0.56330 3.655171 56.537034 0.910413
0.001738 0.353298 9.329730
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2885

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -25.657976 -6.794015 -0.339523
-5.40E-06 -0.216045 -2.786792
0.14083 -25.657976 -6.794015 -0.339523
-5.40E-06 -0.073702 -13.348033
0.28165 -25.657976 -6.794015 -0.339523
-5.40E-06 -0.185981 -36.739757
0.42248 -25.657976 -6.794015 -0.339523
-5.40E-06 -0.567646 -60.359567
0.56330 -25.657976 -6.794015 -0.339523
-5.40E-06 -0.949311 -84.021128

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 38.965651 112.811087 1.554611
0.003024 0.986611 18.263205
0.14083 38.965651 112.811087 1.554611
0.003024 0.334965 2.604997
0.28165 38.965651 112.811087 1.554611
0.003024 0.110320 5.252021
0.42248 38.965651 112.811087 1.554611
0.003024 0.337779 9.368158
0.56330 38.965651 112.811087 1.554611
0.003024 0.565191 13.651413

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -33.235297 -10.218566 -0.542455
-5.20E-05 -0.344443 -21.652044
0.14083 -33.235297 -10.218566 -0.542455
-5.20E-05 -0.117240 -53.346269
0.28165 -33.235297 -10.218566 -0.542455
-5.20E-05 -0.316913 -98.212689
0.42248 -33.235297 -10.218566 -0.542455
-5.20E-05 -0.968616 -144.337274
0.56330 -33.235297 -10.218566 -0.542455
-5.20E-05 -1.620343 -191.212893

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 22.553979 128.835765 2.105144
0.002949 1.335907 27.315327
0.14083 22.553979 128.835765 2.105144
0.002949 0.453528 4.146290
0.28165 22.553979 128.835765 2.105144
0.002949 0.131952 5.965738
0.42248 22.553979 128.835765 2.105144
0.002949 0.406269 9.905579
0.56330 22.553979 128.835765 2.105144
0.002949 0.680468 14.021963

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -48.221965 -9.820061 -0.654060
-8.21E-05 -0.241617 -40.008012
0.14083 -48.221965 -9.820061 -0.654060
-8.21E-05 -0.142058 -40.008037
0.28165 -48.221965 -9.820061 -0.654060
-8.21E-05 -0.429240 -91.533995
0.42248 -48.221965 -9.820061 -0.654060
-8.21E-05 -1.311730 -144.442438
0.56330 -48.221965 -9.820061 -0.654060
-8.21E-05 -2.194253 -198.195481

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 35.168736 152.415384 2.262775
0.003056 1.437647 67.809296
0.14083 35.168736 152.415384 2.262775
0.003056 0.490435 37.817476
0.28165 35.168736 152.415384 2.262775
0.003056 0.152156 39.107964
0.42248 35.168736 152.415384 2.262775
0.003056 0.468650 57.863605
0.56330 35.168736 152.415384 2.262775
0.003056 0.785042 78.583299
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2886

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -81.219526 -50.327754 -0.754711
-0.001814 -0.480518 -17.138880
0.14083 -81.219526 -50.327754 -0.754711
-0.001814 -0.164069 -35.251644
0.28165 -81.219526 -50.327754 -0.754711
-0.001814 -0.460594 -81.651707
0.42248 -81.219526 -50.327754 -0.754711
-0.001814 -1.408895 -138.836057
0.56330 -81.219526 -50.327754 -0.754711
-0.001814 -2.357495 -201.595220

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 93.336333 10.422953 1.127243
3.58E-06 0.721784 4.522110
0.14083 93.336333 10.422953 1.127243
3.58E-06 0.248392 35.519221
0.28165 93.336333 10.422953 1.127243
3.58E-06 0.189766 92.448464
0.42248 93.336333 10.422953 1.127243
3.58E-06 0.584997 149.414452
0.56330 93.336333 10.422953 1.127243
3.58E-06 0.980166 206.403070

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.719221 -137.557060 -0.942509
-0.002918 -0.600105 -26.957405
0.14083 -17.719221 -137.557060 -0.942509
-0.002918 -0.204908 -5.330726
0.28165 -17.719221 -137.557060 -0.942509
-0.002918 -0.221371 -8.761406
0.42248 -17.719221 -137.557060 -0.942509
-0.002918 -0.694738 -12.410387
0.56330 -17.719221 -137.557060 -0.942509
-0.002918 -1.167509 -16.054162

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 105.698002 73.521527 2.354729
0.000699 1.503077 71.106154
0.14083 105.698002 73.521527 2.354729
0.000699 0.517263 86.390035
0.28165 105.698002 73.521527 2.354729
0.000699 0.259016 131.818587
0.42248 105.698002 73.521527 2.354729
0.000699 0.798609 202.568223
0.56330 105.698002 73.521527 2.354729
0.000699 1.338160 276.437638

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -69.561788 -179.998375 -1.287125
-0.004917 -0.820034 -36.746348
0.14083 -69.561788 -179.998375 -1.287125
-0.004917 -0.276280 -9.394686
0.28165 -69.561788 -179.998375 -1.287125
-0.004917 -0.469179 -13.836479
0.42248 -69.561788 -179.998375 -1.287125
-0.004917 -1.456398 -33.503300
0.56330 -69.561788 -179.998375 -1.287125
-0.004917 -2.443891 -62.673494

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 99.567727 105.052581 3.121910
0.001076 1.589772 59.706011
0.14083 99.567727 105.052581 3.121910
0.001076 0.682043 68.110114
0.28165 99.567727 105.052581 3.121910
0.001076 0.290781 109.837776
0.42248 99.567727 105.052581 3.121910
0.001076 0.895662 170.901926
0.56330 99.567727 105.052581 3.121910
0.001076 1.500528 234.004117
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2887

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -65.832779 -154.324816 -1.442789
-0.004111 -0.918598 -33.615019
0.14083 -65.832779 -154.324816 -1.442789
-0.004111 -0.313521 -20.399891
0.28165 -65.832779 -154.324816 -1.442789
-0.004111 -0.626492 -45.847529
0.42248 -65.832779 -154.324816 -1.442789
-0.004111 -1.935426 -82.071654
0.56330 -65.832779 -154.324816 -1.442789
-0.004111 -3.244505 -124.618319

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 102.048312 142.453549 3.436354
0.002115 2.188806 55.187084
0.14083 102.048312 142.453549 3.436354
0.002115 0.749054 57.271867
0.28165 102.048312 142.453549 3.436354
0.002115 0.324407 93.490539
0.42248 102.048312 142.453549 3.436354
0.002115 0.997276 145.927970
0.56330 102.048312 142.453549 3.436354
0.002115 1.670220 200.103442

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -65.627532 -132.589332 -1.605008
-0.003423 -2.130565 -38.508494
0.14083 -65.627532 -132.589332 -1.605008
-0.003423 -0.347393 -43.837593
0.28165 -65.627532 -132.589332 -1.605008
-0.003423 -0.691407 -86.855772
0.42248 -65.627532 -132.589332 -1.605008
-0.003423 -2.132083 -139.604582
0.56330 -65.627532 -132.589332 -1.605008
-0.003423 -3.572948 -197.801666

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.538479 56.747215 1.358243
0.000548 0.863164 58.209043
0.14083 9.538479 56.747215 1.358243
0.000548 0.295185 44.739808
0.28165 9.538479 56.747215 1.358243
0.000548 0.062059 33.379069
0.42248 9.538479 56.747215 1.358243
0.000548 0.172743 47.507407
0.56330 9.538479 56.747215 1.358243
0.000548 0.323123 54.805943

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -56.004158 -30.363978 -0.310932
-0.001162 -0.198384 -8.454832
0.14083 -56.004158 -30.363978 -0.310932
-0.001162 -0.067747 -3.397680
0.28165 -56.004158 -30.363978 -0.310932
-0.001162 -0.272718 -5.948537
0.42248 -56.004158 -30.363978 -0.310932
-0.001162 -0.844483 -22.055218
0.56330 -56.004158 -30.363978 -0.310932
-0.001162 -1.414003 -44.936200

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 26.452922 123.944590 2.394038
0.001641 1.522198 57.644867
0.14083 26.452922 123.944590 2.394038
0.001641 0.519985 29.381633
0.28165 26.452922 123.944590 2.394038
0.001641 0.148835 16.607190
0.42248 26.452922 123.944590 2.394038
0.001641 0.456120 22.214064
0.56330 26.452922 123.944590 2.394038
0.001641 0.763317 29.746933
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2888

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -54.751224 -20.353770 -0.732724
-0.001038 -0.465049 -17.396436
0.14083 -54.751224 -20.353770 -0.732724
-0.001038 -0.157733 -32.240092
0.28165 -54.751224 -20.353770 -0.732724
-0.001038 -0.486207 -66.981951
0.42248 -54.751224 -20.353770 -0.732724
-0.001038 -1.489233 -111.879359
0.56330 -54.751224 -20.353770 -0.732724
-0.001038 -2.492794 -162.773297

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 69.962896 122.273362 3.192696
0.001444 2.031762 53.887652
0.14083 69.962896 122.273362 3.192696
0.001444 0.693846 50.902363
0.28165 69.962896 122.273362 3.192696
0.001444 0.258786 76.160681
0.42248 69.962896 122.273362 3.192696
0.001444 0.795685 113.871195
0.56330 69.962896 122.273362 3.192696
0.001444 1.332561 152.882413

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -70.953686 -96.124947 -1.280301
-0.002802 -0.814126 -23.606104
0.14083 -70.953686 -96.124947 -1.280301
-0.002802 -0.276994 -32.226833
0.28165 -70.953686 -96.124947 -1.280301
-0.002802 -0.644253 -69.141969
0.42248 -70.953686 -96.124947 -1.280301
-0.002802 -1.982787 -115.065648
0.56330 -70.953686 -96.124947 -1.280301
-0.002802 -3.321440 -164.922590

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 64.472557 152.725864 3.590334
0.002452 2.263765 52.774042
0.14083 64.472557 152.725864 3.590334
0.002452 0.779207 43.152738
0.28165 64.472557 152.725864 3.590334
0.002452 0.293425 65.928865
0.42248 64.472557 152.725864 3.590334
0.002452 0.903168 99.161845
0.56330 64.472557 152.725864 3.590334
0.002452 1.512747 133.545825

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -75.134679 -84.929353 -1.453643
-0.002339 -0.924220 -23.490146
0.14083 -75.134679 -84.929353 -1.453643
-0.002339 -0.314465 -41.933506
0.28165 -75.134679 -84.929353 -1.453643
-0.002339 -0.725950 -93.291968
0.42248 -75.134679 -84.929353 -1.453643
-0.002339 -2.230996 -152.675818
0.56330 -75.134679 -84.929353 -1.453643
-0.002339 -3.736365 -215.454658

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.985836 71.034503 1.508415
0.001979 0.957635 16.182996
0.14083 4.985836 71.034503 1.508415
0.001979 0.325293 3.305226
0.28165 4.985836 71.034503 1.508415
0.001979 0.122024 6.375590
0.42248 4.985836 71.034503 1.508415
0.001979 0.376245 9.571054
0.56330 4.985836 71.034503 1.508415
0.001979 0.630205 12.836158
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2889

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -33.897545 -8.536471 -0.605680
-4.08E-06 -0.384917 -15.507801
0.14083 -33.897545 -8.536471 -0.605680
-4.08E-06 -0.130674 -15.440256
0.28165 -33.897545 -8.536471 -0.605680
-4.08E-06 -0.307241 -44.888518
0.42248 -33.897545 -8.536471 -0.605680
-4.08E-06 -0.939592 -74.483519
0.56330 -33.897545 -8.536471 -0.605680
-4.08E-06 -1.571885 -104.165278

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 34.428341 139.495426 2.471509
0.003306 1.570177 21.960639
0.14083 34.428341 139.495426 2.471509
0.003306 0.534300 2.970956
0.28165 34.428341 139.495426 2.471509
0.003306 0.224105 6.711896
0.42248 34.428341 139.495426 2.471509
0.003306 0.686434 11.989689
0.56330 34.428341 139.495426 2.471509
0.003306 1.148480 16.469849

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -42.484297 -12.439171 -1.101916
-3.28E-05 -0.698215 -19.474147
0.14083 -42.484297 -12.439171 -1.101916
-3.28E-05 -0.236015 -55.471012
0.28165 -42.484297 -12.439171 -1.101916
-3.28E-05 -0.502529 -112.339375
0.42248 -42.484297 -12.439171 -1.101916
-3.28E-05 -1.538414 -169.925535
0.56330 -42.484297 -12.439171 -1.101916
-3.28E-05 -2.574483 -227.831209

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 25.536704 150.967966 3.272732
0.003048 2.078691 31.671357
0.14083 25.536704 150.967966 3.272732
0.003048 0.706733 5.486981
0.28165 25.536704 150.967966 3.272732
0.003048 0.237776 9.941501
0.42248 25.536704 150.967966 3.272732
0.003048 0.730122 14.732699
0.56330 25.536704 150.967966 3.272732
0.003048 1.222163 19.616391

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -59.516036 -12.799236 -1.173467
-7.58E-06 -0.744690 -13.420221
0.14083 -59.516036 -12.799236 -1.173467
-7.58E-06 -0.252766 -44.579398
0.28165 -59.516036 -12.799236 -1.173467
-7.58E-06 -0.665956 -106.660345
0.42248 -59.516036 -12.799236 -1.173467
-7.58E-06 -2.037886 -169.174086
0.56330 -59.516036 -12.799236 -1.173467
-7.58E-06 -3.409849 -231.776458

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	44.658670	166.330365	3.712597
0.002900	2.359742	61.510559	
0.14083	44.658670	166.330365	3.712597
0.002900	0.803990	38.406869	
0.28165	44.658670	166.330365	3.712597
0.002900	0.280045	49.372530	
0.42248	44.658670	166.330365	3.712597
0.002900	0.861634	71.955790	
0.56330	44.658670	166.330365	3.712597
0.002900	1.442771	95.822471	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-88.647246	-59.506360	-1.386106
-0.001757	-0.881008	-18.743825	
0.14083	-88.647246	-59.506360	-1.386106
-0.001757	-0.299706	-40.492289	
0.28165	-88.647246	-59.506360	-1.386106
-0.001757	-0.752845	-96.988271	
0.42248	-88.647246	-59.506360	-1.386106
-0.001757	-2.309166	-161.845664	
0.56330	-88.647246	-59.506360	-1.386106
-0.001757	-3.865634	-230.383761	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	81.847003	152.415384	2.262775
0.003056	1.437647	75.346170	
0.14083	81.847003	152.415384	2.262775
0.003056	0.490435	82.576093	
0.28165	81.847003	152.415384	2.262775
0.003056	0.169600	110.047203	
0.42248	81.847003	152.415384	2.262775
0.003056	0.522064	168.180474	
0.56330	81.847003	152.415384	2.262775
0.003056	0.874424	229.861325	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-81.219526	-147.443249	-0.840512
-0.004507	-0.535021	-32.650768	
0.14083	-81.219526	-147.443249	-0.840512
-0.004507	-0.182582	-53.346269	
0.28165	-81.219526	-147.443249	-0.840512
-0.004507	-0.460594	-98.212689	
0.42248	-81.219526	-147.443249	-0.840512
-0.004507	-1.408895	-144.442438	
0.56330	-81.219526	-147.443249	-0.840512
-0.004507	-2.357495	-201.595220	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	105.698002	166.330365	3.712597
0.003306	2.359742	71.106154	
0.14083	105.698002	166.330365	3.712597
0.003306	0.803990	88.390035	
0.28165	105.698002	166.330365	3.712597
0.003306	0.324407	131.818587	
0.42248	105.698002	166.330365	3.712597
0.003306	0.997276	202.568223	
0.56330	105.698002	166.330365	3.712597
0.003306	1.670220	276.437638	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-88.647246	-179.998375	-1.605008
-0.004917	-1.020565	-38.508494	
0.14083	-88.647246	-179.998375	-1.605008
-0.004917	-0.347393	-55.471012	
0.28165	-88.647246	-179.998375	-1.605008
-0.004917	-0.752845	-112.300975	
0.42248	-88.647246	-179.998375	-1.605008
-0.004917	-2.309166	-169.925535	
0.56330	-88.647246	-179.998375	-1.605008
-0.004917	-3.865634	-231.776458	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	105.698002	166.330365	3.712597
0.003306	2.359742	75.346170	
0.14083	105.698002	166.330365	3.712597
0.003306	0.803990	88.390035	
0.28165	105.698002	166.330365	3.712597
0.003306	0.324407	131.818587	
0.42248	105.698002	166.330365	3.712597
0.003306	0.997276	202.568223	
0.56330	105.698002	166.330365	3.712597
0.003306	1.670220	276.437638	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-88.647246	-179.998375	-1.605008
-0.004917	-1.020565	-38.508494	
0.14083	-88.647246	-179.998375	-1.605008
-0.004917	-0.347393	-55.471012	
0.28165	-88.647246	-179.998375	-1.605008
-0.004917	-0.752845	-112.300975	
0.42248	-88.647246	-179.998375	-1.605008
-0.004917	-2.309166	-169.925535	
0.56330	-88.647246	-179.998375	-1.605008
-0.004917	-3.865634	-231.776458	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	105.698002	166.330365	3.712597
0.003306	2.359742	75.346170	
0.14083	105.698002	166.330365	3.712597
0.003306	0.803990	88.390035	
0.28165	105.698002	166.330365	3.712597
0.003306	0.324407	131.818587	
0.42248	105.698002	166.330365	3.712597
0.003306	0.997276	202.568223	
0.56330	105.698002	166.330365	3.712597
0.003306	1.670220	276.437638	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-88.647246	-179.998375	-1.605008
-0.004917	-1.020565	-38.508494	
0.14083	-88.647246	-179.998375	-1.605008
-0.004917	-0.347393	-55.471012	
0.28165	-88.647246	-179.998375	-1.605008
-0.004917	-0.752845	-112.300975	
0.42248	-88.647246	-179.998375	-1.605008
-0.004917	-2.309166	-169.925535	
0.56330	-88.647246	-179.998375	-1.605008
-0.004917	-3.865634	-231.776458	

ELEM 268 ========== LENGTH = 2.976955

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	5.766872	13.091585	0.268163
0.001663	0.332252	18.787877	
0.57752	5.766872	13.091585	0.268163
0.001663	0.219826	13.310856	
0.71834	5.766872	13.091585	0.268163
0.001663	0.107386	7.852733	
0.85917	5.766872	13.091585	0.268163
0.001663	0.007154	3.318676	
1.00000	5.766872	13.091585	0.268163
0.001663	0.143062	7.714763	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-1.015048	-72.170221	-0.327888
-0.000131	-0.406940	-115.610786	
0.57752	-1.015048	-72.170221	-0.327888
-0.000131	-0.269512	-85.492127	
0.71834	-1.015048	-72.170221	-0.327888
-0.000131	-0.132101	-55.503112	
0.85917	-1.015048	-72.170221	-0.327888
-0.000131	-0.004856	-25.796025	
1.00000	-1.015048	-72.170221	-0.327888
-0.000131	-0.117429	-4.231569	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	14.846217	19.594481	0.437353
0.002989	0.542460	28.109338	
0.57752	14.846217	19.594481	0.437353
0.002989	0.359096	19.946709	
0.71834	14.846217	19.594481	0.437353
0.002989	0.175728	11.901861	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85917	14.846217	19.594481	0.437353
0.002989	0.024295	5.192349	
1.00000	14.846217	19.594481	0.437353
0.002989	0.313876	15.870104	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-0.904120	-136.067014	-0.702935
-0.000360	-0.866533	-223.084705	
0.57752	-0.904120	-136.067014	-0.702935
-0.000360	-0.571971	-169.173531	
0.71834	-0.904120	-136.067014	-0.702935
-0.000360	-0.277776	-117.880482	
0.85917	-0.904120	-136.067014	-0.702935
-0.000360	-0.007491	-68.406566	
1.00000	-0.904120	-136.067014	-0.702935
-0.000360	-0.190938	-27.032604	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	16.578957	17.434725	0.483540
0.002972	0.600169	24.989041	
0.57752	16.578957	17.434725	0.483540
0.002972	0.397451	18.049142	
0.71834	16.578957	17.434725	0.483540
0.002972	0.194647	11.113634	
0.85917	16.578957	17.434725	0.483540
0.002972	0.032860	4.424209	
1.00000	16.578957	17.434725	0.483540
0.002972	0.437466	34.478518	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-0.851766	-161.441196	-0.989771
-4.58E-05	-1.223577	-241.486683	
0.57752	-0.851766	-161.441196	-0.989771
-4.58E-05	-0.808869	-175.303041	
0.71834	-0.851766	-161.441196	-0.989771
-4.58E-05	-0.394335	-110.438421	
0.85917	-0.851766	-161.441196	-0.989771
-4.58E-05	-0.007665	-47.176659	
1.00000	-0.851766	-161.441196	-0.989771
-4.58E-05	-0.210633	-15.317902	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	16.207423	45.435486	0.625217
0.004069	0.776086	75.816539	
0.57752	16.207423	45.435486	0.625217
0.004069	0.513971	57.824354	
0.71834	16.207423	45.435486	0.625217
0.004069	0.251772	42.185641	
0.85917	16.207423	45.435486	0.625217
0.004069	0.048441	44.548588	
1.00000	16.207423	45.435486	0.625217
0.004069	0.490870	93.895283	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-5.090140	-200.769497	-1.108753
-0.005921	-1.374908	-253.023930	
0.57752	-5.090140	-200.769497	-1.108753
-0.005921	-0.910277	-171.776556	
0.71834	-5.090140	-200.769497	-1.108753
-0.005921	-0.445897	-98.289416	
0.85917	-5.090140	-200.769497	-1.108753
-0.005921	-0.017091	-40.609826	
1.00000	-5.090140	-200.769497	-1.108753
-0.005921	-0.272314	-15.171542	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	9.765489	5.060209	0.157877
0.001274	0.196517	7.115137	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57752	9.765489	5.060209	0.157877
0.001274	0.130329	4.996881	
0.71834	9.765489	5.060209	0.157877
0.001274	0.064142	2.886338	
0.85917	9.765489	5.060209	0.157877
0.001274	0.020209	1.632658	
1.00000	9.765489	5.060209	0.157877
0.001274	0.202968	10.467735	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-0.304413	-67.514072	-0.447595
-6.28E-05	-0.549628	-107.608765	
0.57752	-0.304413	-67.514072	-0.447595
-6.28E-05	-0.362138	-82.682606	
0.71834	-0.304413	-67.514072	-0.447595
-6.28E-05	-0.174965	-62.039352	
0.85917	-0.304413	-67.514072	-0.447595
-6.28E-05	-0.002047	-43.231002	
1.00000	-0.304413	-67.514072	-0.447595
-6.28E-05	-0.068238	-25.056968	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	13.134142	7.368868	0.298634
0.003333	0.371368	15.972740	
0.57752	13.134142	7.368868	0.298634
0.003333	0.246170	14.177074	
0.71834	13.134142	7.368868	0.298634
0.003333	0.120881	15.340297	
0.85917	13.134142	7.368868	0.298634
0.003333	0.052478	39.173529	
1.00000	13.134142	7.368868	0.298634
0.003333	0.369322	90.509436	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-1.343418	-150.613661	-0.819678
-0.007015	-1.013460	-165.830848	
0.57752	-1.343418	-150.613661	-0.819678
-0.007015	-0.669975	-105.955597	
0.71834	-1.343418	-150.613661	-0.819678
-0.007015	-0.326798	-56.635804	
0.85917	-1.343418	-150.613661	-0.819678
-0.007015	-0.006464	-21.562561	
1.00000	-1.343418	-150.613661	-0.819678
-0.007015	-0.129368	-13.435169	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	17.769003	16.225425	0.471291
0.004295	0.585280	28.035511	
0.57752	17.769003	16.225425	0.471291
0.004295	0.387677	22.432368	
0.71834	17.769003	16.225425	0.471291
0.004295	0.190003	19.501985	
0.85917	17.769003	16.225425	0.471291
0.004295	0.055904	37.058317	
1.00000	17.769003	16.225425	0.471291
0.004295	0.463841	87.136067	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-1.621786	-195.513423	-1.034950
-0.006331	-1.279408	-247.086283	
0.57752	-1.621786	-195.513423	-1.034950
-0.006331	-0.845607	-167.962353	
0.71834	-1.621786	-195.513423	-1.034950
-0.006331	-0.412223	-98.212129	
0.85917	-1.621786	-195.513423	-1.034950
-0.006331	-0.009379	-42.128474	
1.00000	-1.621786	-195.513423	-1.034950
-0.006331	-0.205008	-17.040498	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	15.189106	73.101701	0.673420
0.003391	0.836148	115.142866	
0.57752	15.189106	73.101701	0.673420
0.003391	0.553825	85.404731	
0.71834	15.189106	73.101701	0.673420
0.003391	0.271426	57.555530	
0.85917	15.189106	73.101701	0.673420
0.003391	0.046961	43.968117	
1.00000	15.189106	73.101701	0.673420
0.003391	0.508534	79.145922	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-8.138516	-173.895582	-1.154232
-0.005548	-5.632708	-221.574636	
0.57752	-8.138516	-173.895582	-1.154232
-0.005548	-0.948922	-150.771626	
0.71834	-8.138516	-173.895582	-1.154232
-0.005548	-0.465570	-86.322345	
0.85917	-8.138516	-173.895582	-1.154232
-0.005548	-0.021391	-36.418344	
1.00000	-8.138516	-173.895582	-1.154232
-0.005548	-0.293092	-22.958596	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	0.346298	120.865906	0.478402
1.02E-05	0.593962	174.112501	
0.57752	0.346298	120.865906	0.478402
1.02E-05	0.393397	123.534660	
0.71834	0.346298	120.865906	0.478402
1.02E-05	0.192832	72.993325	
0.85917	0.346298	120.865906	0.478402
1.02E-05	0.007095	27.483305	
1.00000	0.346298	120.865906	0.478402
1.02E-05	0.195253	3.583440	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-12.574933	-11.553682	-0.453908
-0.002323	-0.571690	-16.315304	
0.57752	-12.574933	-11.553682	-0.453908
-0.002323	-0.381576	-11.539196	
0.71834	-12.574933	-11.553682	-0.453908
-0.002323	-0.191725	-7.062411	
0.85917	-12.574933	-11.553682	-0.453908
-0.002323	-0.022800	-2.532235	
1.00000	-12.574933	-11.553682	-0.453908
-0.002323	-0.208297	-29.605301	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	3.490421	137.719524	0.676894
0.002504	0.840499	216.885871	
0.57752	3.490421	137.719524	0.676894
0.002504	0.556719	161.253690	
0.71834	3.490421	137.719524	0.676894
0.002504	0.272810	109.560266	
0.85917	3.490421	137.719524	0.676894
0.002504	0.041911	85.424949	
1.00000	3.490421	137.719524	0.676894
0.002504	0.341772	91.677558	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-15.985393	-94.557257	-0.786803
-0.011113	-0.986763	-72.206002	
0.57752	-15.985393	-94.557257	-0.786803
-0.011113	-0.657066	-34.858605	
0.71834	-15.985393	-94.557257	-0.786803
-0.011113	-0.327727	-10.851206	
0.85917	-15.985393	-94.557257	-0.786803
-0.011113	-0.031206	-4.314800	
1.00000	-15.985393	-94.557257	-0.786803
-0.011113	-0.294622	-28.803746	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	8.945299	120.589799	0.692243
0.002466	0.859920	180.668956	
0.57752	8.945299	120.589799	0.692243
0.002466	0.569705	131.243703	
0.71834	8.945299	120.589799	0.692243
0.002466	0.279342	84.311214	
0.85917	8.945299	120.589799	0.692243
0.002466	0.047343	56.255169	
1.00000	8.945299	120.589799	0.692243
0.002466	0.471124	77.901434	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-13.408733	-123.085693	-1.080505
-0.008189	-1.347835	-129.494845	
0.57752	-13.408733	-123.085693	-1.080505
-0.008189	-0.895024	-79.404601	
0.71834	-13.408733	-123.085693	-1.080505
-0.008189	-0.442759	-37.050133	
0.85917	-13.408733	-123.085693	-1.080505
-0.008189	-0.027926	-6.012029	
1.00000	-13.408733	-123.085693	-1.080505
-0.008189	-0.300887	-27.012806	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	14.067665	107.411008	0.737038
0.003128	0.915321	160.417267	
0.57752	14.067665	107.411008	0.737038
0.003128	0.606326	116.306133	
0.71834	14.067665	107.411008	0.737038
0.003128	0.297204	74.246375	
0.85917	14.067665	107.411008	0.737038
0.003128	0.050096	47.973182	
1.00000	14.067665	107.411008	0.737038
0.003128	0.520828	69.259523	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-11.484197	-154.395361	-1.185697
-0.006816	-1.473728	-194.958434	
0.57752	-11.484197	-154.395361	-1.185697
-0.006816	-0.976858	-132.615912	
0.71834	-11.484197	-154.395361	-1.185697
-0.006816	-0.480563	-77.782945	
0.85917	-11.484197	-154.395361	-1.185697
-0.006816	-0.025942	-33.715607	
1.00000	-11.484197	-154.395361	-1.185697
-0.006816	-0.320618	-36.784864	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	6.103129	16.100331	0.350938
0.001777	0.435080	24.411570	
0.57752	6.103129	16.100331	0.350938
0.001777	0.287958	17.722039	
0.71834	6.103129	16.100331	0.350938
0.001777	0.140826	11.460897	
0.85917	6.103129	16.100331	0.350938
0.001777	0.010100	6.463454	
1.00000	6.103129	16.100331	0.350938
0.001777	0.232004	10.538244	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-1.470105	-83.824443	-0.530741
-0.000119	-0.657979	-133.948140	
0.57752	-1.470105	-83.824443	-0.530741
-0.000119	-0.435896	-98.932255	
0.71834	-1.470105	-83.824443	-0.530741
-0.000119	-0.212967	-64.036628	
0.85917	-1.470105	-83.824443	-0.530741
-0.000119	-0.006054	-29.535996	
1.00000	-1.470105	-83.824443	-0.530741
-0.000119	-0.153511	-6.052463	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	15.594566	23.893884	0.579859
0.003058	0.719322	36.159217	
0.57752	15.594566	23.893884	0.579859
0.003058	0.476302	26.232947	
0.71834	15.594566	23.893884	0.579859
0.003058	0.233449	16.493813	
0.85917	15.594566	23.893884	0.579859
0.003058	0.027883	7.843616	
1.00000	15.594566	23.893884	0.579859
0.003058	0.473202	18.343387	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-1.368693	-158.200676	-1.068629
-0.000251	-1.318878	-260.813817	
0.57752	-1.368693	-158.200676	-1.068629
-0.000251	-0.871467	-196.162373	
0.71834	-1.368693	-158.200676	-1.068629
-0.000251	-0.423286	-133.510172	
0.85917	-1.368693	-158.200676	-1.068629
-0.000251	-0.009312	-71.985633	
1.00000	-1.368693	-158.200676	-1.068629
-0.000251	-0.252966	-25.962223	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	17.286981	22.807529	0.673129
0.002932	0.835721	37.543908	
0.57752	17.286981	22.807529	0.673129
0.002932	0.552901	28.097190	
0.71834	17.286981	22.807529	0.673129
0.002932	0.270823	18.786219	
0.85917	17.286981	22.807529	0.673129
0.002932	0.036495	10.775413	
1.00000	17.286981	22.807529	0.673129
0.002932	0.633131	41.273718	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-1.525258	-183.794831	-1.436276
-5.61E-05	-1.773258	-277.713353	
0.57752	-1.525258	-183.794831	-1.436276
-5.61E-05	-1.172134	-201.487933	
0.71834	-1.525258	-183.794831	-1.436276
-5.61E-05	-0.569945	-126.647297	
0.85917	-1.525258	-183.794831	-1.436276
-5.61E-05	-0.009603	-53.975851	
1.00000	-1.525258	-183.794831	-1.436276
-5.61E-05	-0.292128	-17.870471	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	16.722219	51.099429	0.882213
0.003706	1.095604	89.864229	
0.57752	16.722219	51.099429	0.882213
0.003706	0.725490	69.183910	
0.71834	16.722219	51.099429	0.882213
0.003706	0.357394	50.922128	
0.85917	16.722219	51.099429	0.882213
0.003706	0.051854	46.300914	
1.00000	16.722219	51.099429	0.882213
0.003706	0.746264	86.142884	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-5.495824	-212.385566	-1.691170
-0.005084	-2.093235	-284.176106	
0.57752	-5.495824	-212.385566	-1.691170
-0.005084	-1.385558	-196.255425	
0.71834	-5.495824	-212.385566	-1.691170
-0.005084	-0.677515	-114.094446	
0.85917	-5.495824	-212.385566	-1.691170
-0.005084	-0.018340	-46.667827	
1.00000	-5.495824	-212.385566	-1.691170
-0.005084	-0.382723	-17.039463	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2897

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	9.992550	6.143001	0.228703
0.001232	0.284000	9.328114	
0.57752	9.992550	6.143001	0.228703
0.001232	0.188368	6.801791	
0.71834	9.992550	6.143001	0.228703
0.001232	0.092572	4.320056	
0.85917	9.992550	6.143001	0.228703
0.001232	0.020054	2.332998	
1.00000	9.992550	6.143001	0.228703
0.001232	0.272502	11.303570	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-0.438787	-77.502724	-0.609285
-0.000110	-0.748737	-126.740182	
0.57752	-0.438787	-77.502724	-0.609285
-0.000110	-0.493634	-96.407436	
0.71834	-0.438787	-77.502724	-0.609285
-0.000110	-0.238407	-69.122581	
0.85917	-0.438787	-77.502724	-0.609285
-0.000110	-0.002751	-42.063689	
1.00000	-0.438787	-77.502724	-0.609285
-0.000110	-0.098892	-22.266910	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	13.198550	8.139304	0.435335
0.002928	0.541655	19.958981	
0.57752	13.198550	8.139304	0.435335
0.002928	0.358748	17.456854	
0.71834	13.198550	8.139304	0.435335
0.002928	0.175917	18.224540	
0.85917	13.198550	8.139304	0.435335
0.002928	0.053448	36.535064	
1.00000	13.198550	8.139304	0.435335
0.002928	0.510452	85.594448	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-1.480851	-151.766664	-1.130240
-0.006466	-1.391323	-179.885577	
0.57752	-1.480851	-151.766664	-1.130240
-0.006466	-0.918590	-117.455729	
0.71834	-1.480851	-151.766664	-1.130240
-0.006466	-0.446414	-63.059778	
0.85917	-1.480851	-151.766664	-1.130240
-0.006466	-0.006356	-22.049142	
1.00000	-1.480851	-151.766664	-1.130240
-0.006466	-0.187127	-11.608305	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	18.483720	19.002369	0.656963
0.003998	0.816367	35.588562	
0.57752	18.483720	19.002369	0.656963
0.003998	0.543604	28.451889	
0.71834	18.483720	19.002369	0.656963
0.003998	0.267979	24.381090	
0.85917	18.483720	19.002369	0.656963
0.003998	0.058937	36.339129	
1.00000	18.483720	19.002369	0.656963
0.003998	0.664863	84.142201	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-1.931764	-207.025381	-1.482968
-0.005843	-1.827943	-277.598624	
0.57752	-1.931764	-207.025381	-1.482968
-0.005843	-1.206981	-191.837979	
0.71834	-1.931764	-207.025381	-1.482968
-0.005843	-0.586800	-113.200003	
0.85917	-1.931764	-207.025381	-1.482968
-0.005843	-0.010050	-47.175276	
1.00000	-1.931764	-207.025381	-1.482968
-0.005843	-0.284224	-16.765682	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2898

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	15.966751	81.369682	0.961360
0.003087	1.194071	131.529495	
0.57752	15.966751	81.369682	0.961360
0.003087	0.790707	98.092947	
0.71834	15.966751	81.369682	0.961360
0.003087	0.388750	66.607906	
0.85917	15.966751	81.369682	0.961360
0.003087	0.050620	45.676057	
1.00000	15.966751	81.369682	0.961360
0.003087	0.792534	74.331621	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-8.461224	-187.974492	-1.808449
-0.004991	-2.242396	-253.750622	
0.57752	-8.461224	-187.974492	-1.808449
-0.004991	-1.485403	-175.766277	
0.71834	-8.461224	-187.974492	-1.808449
-0.004991	-0.727971	-102.417262	
0.85917	-8.461224	-187.974492	-1.808449
-0.004991	-0.022820	-41.073141	
1.00000	-8.461224	-187.974492	-1.808449
-0.004991	-0.416505	-22.938313	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	0.630730	140.073860	0.698828
8.60E-06	0.867802	201.083146	
0.57752	0.630730	140.073860	0.698828
8.60E-06	0.574768	142.409660	
0.71834	0.630730	140.073860	0.698828
8.60E-06	0.280921	83.856202	
0.85917	0.630730	140.073860	0.698828
8.60E-06	0.010285	25.392919	
1.00000	0.630730	140.073860	0.698828
8.60E-06	0.393537	4.218866	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-13.052794	-14.258150	-0.935736
-0.002428	-1.175610	-20.863181	
0.57752	-13.052794	-14.258150	-0.935736
-0.002428	-0.783480	-14.959560	
0.71834	-13.052794	-14.258150	-0.935736
-0.002428	-0.391550	-9.294666	
0.85917	-13.052794	-14.258150	-0.935736
-0.002428	-0.024680	-4.185513	
1.00000	-13.052794	-14.258150	-0.935736
-0.002428	-0.304156	-35.400564	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	4.109874	154.267611	0.985790
0.002535	1.224459	241.363538	
0.57752	4.109874	154.267611	0.985790
0.002535	0.811605	177.864174	
0.71834	4.109874	154.267611	0.985790
0.002535	0.401483	119.875150	
0.85917	4.109874	154.267611	0.985790
0.002535	0.051667	87.220337	
1.00000	4.109874	154.267611	0.985790
0.002535	0.636655	90.721038	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-16.112471	-96.671432	-1.462486
-0.011808	-1.825914	-81.891744	
0.57752	-16.112471	-96.671432	-1.462486
-0.011808	-1.213641	-42.342941	
0.71834	-16.112471	-96.671432	-1.462486
-0.011808	-0.603005	-14.078280	
0.85917	-16.112471	-96.671432	-1.462486
-0.011808	-0.032244	-5.725246	
1.00000	-16.112471	-96.671432	-1.462486
-0.011808	-0.459362	-39.735889	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2899

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	9.631104	136.981580	1.018135
0.002455	1.265450	207.707020	
0.57752	9.631104	136.981580	1.018135
0.002455	0.838154	151.079142	
0.71834	9.631104	136.981580	1.018135
0.002455	0.413577	97.969712	
0.85917	9.631104	136.981580	1.018135
0.002455	0.055493	62.667472	
1.00000	9.631104	136.981580	1.018135
0.002455	0.780186	82.539607	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-13.900742	-132.298265	-1.789738
-0.009016	-2.226859	-146.826873	
0.57752	-13.900742	-132.298265	-1.789738
-0.009016	-1.477635	-91.916482	
0.71834	-13.900742	-132.298265	-1.789738
-0.009016	-0.729421	-44.076159	
0.85917	-13.900742	-132.298265	-1.789738
-0.009016	-0.029234	-11.049065	
1.00000	-13.900742	-132.298265	-1.789738
-0.009016	-0.440814	-33.082224	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	15.127641	122.532025	1.059382
0.003165	1.316273	185.665470	
0.57752	15.127641	122.532025	1.059382
0.003165	0.871867	134.998026	
0.71834	15.127641	122.532025	1.059382
0.003165	0.429573	87.264698	
0.85917	15.127641	122.532025	1.059382
0.003165	0.058244	54.504716	
1.00000	15.127641	122.532025	1.059382
0.003165	0.840688	74.197630	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-12.031855	-171.585099	-1.919442
-0.007511	-2.382881	-226.371817	
0.57752	-12.031855	-171.585099	-1.919442
-0.007511	-1.579052	-155.414603	
0.71834	-12.031855	-171.585099	-1.919442
-0.007511	-0.776246	-91.075368	
0.85917	-12.031855	-171.585099	-1.919442
-0.007511	-0.027664	-39.243840	
1.00000	-12.031855	-171.585099	-1.919442
-0.007511	-0.459369	-39.404068	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	17.769003	137.719524	0.737038
0.004295	0.915321	216.885871	
0.57752	17.769003	137.719524	0.737038
0.004295	0.606326	161.253690	
0.71834	17.769003	137.719524	0.737038
0.004295	0.297204	109.560266	
0.85917	17.769003	137.719524	0.737038
0.004295	0.055904	85.424949	
1.00000	17.769003	137.719524	0.737038
0.004295	0.520828	93.895283	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-15.985393	-200.769497	-1.185697
-0.011113	-1.473728	-253.023930	
0.57752	-15.985393	-200.769497	-1.185697
-0.011113	-0.976858	-175.303041	
0.71834	-15.985393	-200.769497	-1.185697
-0.011113	-0.480563	-117.880482	
0.85917	-15.985393	-200.769497	-1.185697
-0.011113	-0.031206	-68.406666	
1.00000	-15.985393	-200.769497	-1.185697
-0.011113	-0.320618	-36.784864	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2900

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	18.483720	154.267611	1.059382
0.003998	1.316273	241.363538	
0.57752	18.483720	154.267611	1.059382
0.003998	0.871867	177.864174	
0.71834	18.483720	154.267611	1.059382
0.003998	0.429573	119.875150	
0.85917	18.483720	154.267611	1.059382
0.003998	0.058937	87.220337	
1.00000	18.483720	154.267611	1.059382
0.003998	0.840688	90.721038	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-16.112471	-212.385566	-1.919442
-0.011808	-2.382881	-284.176106	
0.57752	-16.112471	-212.385566	-1.919442
-0.011808	-1.579052	-201.487933	
0.71834	-16.112471	-212.385566	-1.919442
-0.011808	-0.776246	-133.531172	
0.85917	-16.112471	-212.385566	-1.919442
-0.011808	-0.032244	-71.985633	
1.00000	-16.112471	-212.385566	-1.919442
-0.011808	-0.459369	-39.404068	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	18.483720	154.267611	1.059382
0.004295	1.316273	241.363538	
0.57752	18.483720	154.267611	1.059382
0.004295	0.871867	177.864174	
0.71834	18.483720	154.267611	1.059382
0.004295	0.429573	119.875150	
0.85917	18.483720	154.267611	1.059382
0.004295	0.058937	87.220337	
1.00000	18.483720	154.267611	1.059382
0.004295	0.840688	93.895283	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-16.112471	-212.385566	-1.919442
-0.011808	-2.382881	-284.176106	
0.57752	-16.112471	-212.385566	-1.919442
-0.011808	-1.579052	-201.487933	
0.71834	-16.112471	-212.385566	-1.919442
-0.011808	-0.776246	-133.531172	
0.85917	-16.112471	-212.385566	-1.919442
-0.011808	-0.032244	-71.985633	
1.00000	-16.112471	-212.385566	-1.919442
-0.011808	-0.459369	-39.404068	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43669	18.483720	154.267611	1.059382
0.004295	1.316273	241.363538	
0.57752	18.483720	154.267611	1.059382
0.004295	0.871867	177.864174	
0.71834	18.483720	154.267611	1.059382
0.004295	0.429573	119.875150	
0.85917	18.483720	154.267611	1.059382
0.004295	0.058937	87.220337	
1.00000	18.483720	154.267611	1.059382
0.004295	0.840688	93.895283	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43669	-16.112471	-212.385566	-1.919442
-0.011808	-2.382881	-284.176106	
0.57752	-16.112471	-212.385566	-1.919442
-0.011808	-1.579052	-201.487933	
0.71834	-16.112471	-212.385566	-1.919442
-0.011808	-0.776246	-133.531172	
0.85917	-16.112471	-212.385566	-1.919442
-0.011808	-0.032244	-71.985633	
1.00000	-16.112471	-212.385566	-1.919442
-0.011808	-0.459369	-39.404068	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2901

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 269 ========== LENGTH = 2.977946

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.629500	13.037994	0.264863
0.001182	0.113325	7.713607	
0.14086	5.629500	13.037994	0.264863
0.001182	0.002563	36.587348	
0.28173	5.629500	13.037994	0.264863
0.001182	0.131190	66.449912	
0.42259	5.629500	13.037994	0.264863
0.001182	0.265078	96.426260	
0.56346	5.629500	13.037994	0.264863
0.001182	0.399049	126.480412	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.010916	-71.741077	-0.319423
-3.12E-06	-0.137023	-4.231376	
0.14086	-1.010916	-71.741077	-0.319423
-3.12E-06	-0.004484	-9.044465	
0.28173	-1.010916	-71.741077	-0.319423
-3.12E-06	0.108852	-14.206978	
0.42259	-1.010916	-71.741077	-0.319423
-3.12E-06	-0.219974	-19.568470	
0.56346	-1.010916	-71.741077	-0.319423
-3.12E-06	-0.331082	-25.010937	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.510075	20.484326	0.434182
0.002496	0.186315	15.868137	
0.14086	14.510075	20.484326	0.434182
0.002496	0.059780	67.441035	
0.28173	14.510075	20.484326	0.434182
0.002496	0.265421	121.927793	
0.42259	14.510075	20.484326	0.434182
0.002496	0.530030	176.912456	
0.56346	14.510075	20.484326	0.434182
0.002496	0.794878	232.501125	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.965092	-133.328797	-0.631582
-7.63E-05	-0.266079	-27.032786	
0.14086	-0.965092	-133.328797	-0.631582
-7.63E-05	-0.007155	-21.069099	
0.28173	-0.965092	-133.328797	-0.631582
-7.63E-05	-0.177897	-21.875529	
0.42259	-0.965092	-133.328797	-0.631582
-7.63E-05	-0.360048	-29.323569	
0.56346	-0.965092	-133.328797	-0.631582
-7.63E-05	-0.542192	-37.469594	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.191364	17.276793	0.478092
0.002898	0.204526	34.475809	
0.14086	16.191364	17.276793	0.478092
0.002898	0.027982	98.845234	
0.28173	16.191364	17.276793	0.478092
0.002898	0.380441	165.337161	
0.42259	16.191364	17.276793	0.478092
0.002898	0.760460	232.140998	
0.56346	16.191364	17.276793	0.478092
0.002898	1.140713	299.093861	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.808201	-160.040860	-0.906586
-2.81E-06	-0.381345	-15.317872	
0.14086	-0.808201	-160.040860	-0.906586
-2.81E-06	-0.006554	-15.292751	
0.28173	-0.808201	-160.040860	-0.906586
-2.81E-06	-0.196417	-18.934529	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2902

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42259	-0.808201	-160.040860	-0.906586
-2.81E-06	-0.397056	-26.153481	
0.56346	-0.808201	-160.040860	-0.906586
-2.81E-06	-0.597608	-33.385178	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.393426	65.434589	0.615712
0.007417	0.263118	93.893181	
0.14086	14.393426	65.434589	0.615712
0.007417	0.025129	148.692740	
0.28173	14.393426	65.434589	0.615712
0.007417	0.439535	205.888207	
0.42259	14.393426	65.434589	0.615712
0.007417	0.882916	264.278196	
0.56346	14.393426	65.434589	0.615712
0.007417	1.326582	330.364996	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.727790	-162.790201	-1.057791
-0.001948	-0.459178	-15.171095	
0.14086	-6.727790	-162.790201	-1.057791
-0.001948	-0.033737	-26.983744	
0.28173	-6.727790	-162.790201	-1.057791
-0.001948	-0.253290	-41.179111	
0.42259	-6.727790	-162.790201	-1.057791
-0.001948	-0.511663	-60.003171	
0.56346	-6.727790	-162.790201	-1.057791
-0.001948	-0.769946	-78.937989	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.610030	5.022461	0.159473
0.001205	0.069110	10.466820	
0.14086	9.610030	5.022461	0.159473
0.001205	0.020362	36.744179	
0.28173	9.610030	5.022461	0.159473
0.001205	0.162706	64.179336	
0.42259	9.610030	5.022461	0.159473
0.001205	0.321605	91.897042	
0.56346	9.610030	5.022461	0.159473
0.001205	0.480867	119.756622	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.281209	-66.820919	-0.379740
-7.22E-06	-0.156974	-25.057528	
0.14086	-0.281209	-66.820919	-0.379740
-7.22E-06	-0.001904	-12.952656	
0.28173	-0.281209	-66.820919	-0.379740
-7.22E-06	-0.064686	-6.545231	
0.42259	-0.281209	-66.820919	-0.379740
-7.22E-06	-0.131582	-7.061116	
0.56346	-0.281209	-66.820919	-0.379740
-7.22E-06	-0.198479	-9.752200	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.819883	34.484573	0.294427
0.008645	0.125733	90.507774	
0.14086	10.819883	34.484573	0.294427
0.008645	0.027969	116.520024	
0.28173	10.819883	34.484573	0.294427
0.008645	0.315475	143.401189	
0.42259	10.819883	34.484573	0.294427
0.008645	0.629220	171.745694	
0.56346	10.819883	34.484573	0.294427
0.008645	0.943220	210.580940	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.476676	-99.487046	-0.748570
-0.001968	-0.326814	-13.435392	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
2903

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14086	-3.476676	-99.487046	-0.748570
-0.001968	-0.030273	-6.981637	
0.28173	-3.476676	-99.487046	-0.748570
-0.001968	-0.121114	-4.932494	
0.42259	-3.476676	-99.487046	-0.748570
-0.001968	-0.244722	-7.767988	
0.56346	-3.476676	-99.487046	-0.748570
-0.001968	-0.368230	-10.709335	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.564179	40.658363	0.465446
0.008772	0.199025	87.133686	
0.14086	15.564179	40.658363	0.465446
0.008772	0.030961	133.725354	
0.28173	15.564179	40.658363	0.465446
0.008772	0.397518	182.462324	
0.42259	15.564179	40.658363	0.465446
0.008772	0.793373	232.705969	
0.56346	15.564179	40.658363	0.465446
0.008772	1.189495	292.532801	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.542222	-149.000646	-0.944610
-0.001779	-0.408276	-17.041086	
0.14086	-3.542222	-149.000646	-0.944610
-0.001779	-0.029915	-11.930620	
0.28173	-3.542222	-149.000646	-0.944610
-0.001779	-0.191288	-14.835631	
0.42259	-3.542222	-149.000646	-0.944610
-0.001779	-0.386637	-21.376766	
0.56346	-3.542222	-149.000646	-0.944610
-0.001779	-0.581884	-28.013482	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.685272	89.597361	0.662598
0.006214	0.283162	79.144275	
0.14086	13.685272	89.597361	0.662598
0.006214	0.027751	124.617441	
0.28173	13.685272	89.597361	0.662598
0.006214	0.460956	175.232268	
0.42259	13.685272	89.597361	0.662598
0.006214	0.926975	227.175930	
0.56346	13.685272	89.597361	0.662598
0.006214	1.393405	285.456110	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.530049	-143.172264	-1.112388
-0.002212	-0.482534	-22.958008	
0.14086	-9.530049	-143.172264	-1.112388
-0.002212	-0.034569	-43.294279	
0.28173	-9.530049	-143.172264	-1.112388
-0.002212	-0.272595	-70.903097	
0.42259	-9.530049	-143.172264	-1.112388
-0.002212	-0.550626	-101.491689	
0.56346	-9.530049	-143.172264	-1.112388
-0.002212	-0.828576	-132.176080	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.427755	121.706233	0.468856
3.48E-05	0.200339	3.583216	
0.14086	0.427755	121.706233	0.468856
3.48E-05	0.003702	8.089041	
0.28173	0.427755	121.706233	0.468856
3.48E-05	0.205428	12.876100	
0.42259	0.427755	121.706233	0.468856
3.48E-05	0.423315	17.681462	
0.56346	0.427755	121.706233	0.468856
3.48E-05	0.641461	22.518481	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2904
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.786324	-11.561428	-0.520377
-0.002083	-0.233820	-29.602911	
0.14086	-12.786324	-11.561428	-0.520377
-0.002083	-0.023032	-80.362848	
0.28173	-12.786324	-11.561428	-0.520377
-0.002083	-0.193018	-131.149282	
0.42259	-12.786324	-11.561428	-0.520377
-0.002083	-0.389698	-181.950262	
0.56346	-12.786324	-11.561428	-0.520377
-0.002083	-0.586377	-232.986445	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.038511	171.757146	0.663010
0.008651	0.283023	91.677076	
0.14086	1.038511	171.757146	0.663010
0.008651	0.007739	85.496363	
0.28173	1.038511	171.757146	0.663010
0.008651	0.344165	81.513445	
0.42259	1.038511	171.757146	0.663010
0.008651	0.703423	79.337885	
0.56346	1.038511	171.757146	0.663010
0.008651	1.063173	89.827675	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.884646	-33.458914	-0.857683
-0.004605	-0.394333	-28.801236	
0.14086	-18.884646	-33.458914	-0.857683
-0.004605	-0.060753	-82.557034	
0.28173	-18.884646	-33.458914	-0.857683
-0.004605	-0.273015	-137.012521	
0.42259	-18.884646	-33.458914	-0.857683
-0.004605	-0.551277	-192.721113	
0.56346	-18.884646	-33.458914	-0.857683
-0.004605	-0.829401	-250.739118	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.116090	144.093757	0.678640
0.007009	0.289621	77.899954	
0.14086	7.116090	144.093757	0.678640
0.007009	0.023288	99.459572	
0.28173	7.116090	144.093757	0.678640
0.007009	0.450308	121.116033	
0.42259	7.116090	144.093757	0.678640
0.007009	0.912518	143.864206	
0.56346	7.116090	144.093757	0.678640
0.007009	1.375314	175.282792	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-15.413802	-80.541831	-1.103297
-0.003603	-0.489428	-27.010522	
0.14086	-15.413802	-80.541831	-1.103297
-0.003603	-0.048349	-75.660827	
0.28173	-15.413802	-80.541831	-1.103297
-0.003603	-0.279493	-125.334839	
0.42259	-15.413802	-80.541831	-1.103297
-0.003603	-0.564332	-176.063468	
0.56346	-15.413802	-80.541831	-1.103297
-0.003603	-0.849012	-226.880130	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.456947	126.798112	0.724859
0.006659	0.309794	69.257605	
0.14086	12.456947	126.798112	0.724859
0.006659	0.028983	106.867411	
0.28173	12.456947	126.798112	0.724859
0.006659	0.479318	146.136368	
0.42259	12.456947	126.798112	0.724859
0.006659	0.966498	186.611592	
0.56346	12.456947	126.798112	0.724859
0.006659	1.454322	234.381078	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2905
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.129667	-118.890291	-1.163022
-0.002993	-0.508807	-36.783345	
0.14086	-13.129667	-118.890291	-1.163022
-0.002993	-0.041696	-70.306214	
0.28173	-13.129667	-118.890291	-1.163022
-0.002993	-0.298121	-112.015171	
0.42259	-13.129667	-118.890291	-1.163022
-0.002993	-0.602321	-157.165358	
0.56346	-13.129667	-118.890291	-1.163022
-0.002993	-0.906389	-202.389842	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.026488	16.024622	0.347085
0.001233	0.148664	10.536667	
0.14086	6.026488	16.024622	0.347085
0.001233	0.003412	44.783538	
0.28173	6.026488	16.024622	0.347085
0.001233	0.213582	79.477809	
0.42259	6.026488	16.024622	0.347085
0.001233	0.432063	114.253914	
0.56346	6.026488	16.024622	0.347085
0.001233	0.649700	149.053978	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.512268	-83.387520	-0.519612
-1.99E-06	-0.222017	-6.052179	
0.14086	-1.512268	-83.387520	-0.519612
-1.99E-06	-0.005005	-12.261087	
0.28173	-1.512268	-83.387520	-0.519612
-1.99E-06	-0.142617	-18.562459	
0.42259	-1.512268	-83.387520	-0.519612
-1.99E-06	-0.288213	-24.993659	
0.56346	-1.512268	-83.387520	-0.519612
-1.99E-06	-0.433802	-31.563435	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.344344	24.427638	0.575836
0.002514	0.247088	18.341145	
0.14086	15.344344	24.427638	0.575836
0.002514	0.017353	78.218343	
0.28173	15.344344	24.427638	0.575836
0.002514	0.409138	141.481480	
0.42259	15.344344	24.427638	0.575836
0.002514	0.817619	206.007410	
0.56346	15.344344	24.427638	0.575836
0.002514	1.225374	271.085791	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.471015	-156.231508	-0.973124
-5.01E-05	-0.407061	-25.962347	
0.14086	-1.471015	-156.231508	-0.973124
-5.01E-05	-0.007311	-26.848623	
0.28173	-1.471015	-156.231508	-0.973124
-5.01E-05	-0.236163	-30.147252	
0.42259	-1.471015	-156.231508	-0.973124
-5.01E-05	-0.477557	-37.346657	
0.56346	-1.471015	-156.231508	-0.973124
-5.01E-05	-0.719087	-47.035395	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.901078	22.640210	0.667013
0.002903	0.285074	41.270846	
0.14086	16.901078	22.640210	0.667013
0.002903	0.025959	113.894344	
0.28173	16.901078	22.640210	0.667013
0.002903	0.551311	188.936675	
0.42259	16.901078	22.640210	0.667013
0.002903	1.109039	264.634176	
0.56346	16.901078	22.640210	0.667013
0.002903	1.647690	340.500359	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2906
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.520516	-182.313987	-1.307298
-9.40E-06	-0.543620	-17.870510	
0.14086	-1.520516	-182.313987	-1.307298
-9.40E-06	-0.007441	-21.252639	
0.28173	-1.520516	-182.313987	-1.307298
-9.40E-06	-0.273098	-26.398568	
0.42259	-1.520516	-182.313987	-1.307298
-9.40E-06	-0.552644	-33.866599	
0.56346	-1.520516	-182.313987	-1.307298
-9.40E-06	-0.832355	-42.491369	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.127028	68.456840	0.870008
0.006569	0.371029	86.140538	
0.14086	15.127028	68.456840	0.870008
0.006569	0.023635	149.311305	
0.28173	15.127028	68.456840	0.870008
0.006569	0.669228	215.414907	
0.42259	15.127028	68.456840	0.870008
0.006569	1.343737	285.467120	
0.56346	15.127028	68.456840	0.870008
0.006569	2.018193	360.709062	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.909590	-184.335171	-1.609987
-0.001740	-0.688646	-17.039069	
0.14086	-6.909590	-184.335171	-1.609987
-0.001740	-0.031721	-31.074245	
0.28173	-6.909590	-184.335171	-1.609987
-0.001740	-0.358021	-47.962784	
0.42259	-6.909590	-184.335171	-1.609987
-0.001740	-0.672133	-67.489040	
0.56346	-6.909590	-184.335171	-1.609987
-0.001740	-1.086904	-88.289742	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.812965	6.082379	0.228651
0.001252	0.098405	11.302568	
0.14086	9.812965	6.082379	0.228651
0.001252	0.017736	39.512278	
0.28173	9.812965	6.082379	0.228651
0.001252	0.221759	70.157848	
0.42259	9.812965	6.082379	0.228651
0.001252	0.436813	101.817543	
0.56346	9.812965	6.082379	0.228651
0.001252	0.651805	133.778824	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.417591	-76.836392	-0.513097
-4.44E-06	-0.208404	-22.267140	
0.14086	-0.417591	-76.836392	-0.513097
-4.44E-06	-0.002011	-15.463511	
0.28173	-0.417591	-76.836392	-0.513097
-4.44E-06	-0.109216	-10.606108	
0.42259	-0.417591	-76.836392	-0.513097
-4.44E-06	-0.188922	-9.735785	
0.56346	-0.417591	-76.836392	-0.513097
-4.44E-06	-0.284815	-12.097875	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.942960	34.121872	0.429552
0.008038	0.182388	85.592860	
0.14086	10.942960	34.121872	0.429552
0.008038	0.024348	114.209030	
0.28173	10.942960	34.121872	0.429552
0.008038	0.428967	144.357343	
0.42259	10.942960	34.121872	0.429552
0.008038	0.852874	179.966269	
0.56346	10.942960	34.121872	0.429552
0.008038	1.278353	223.325005	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2907
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.464009	-109.755665	-1.015081
-0.001831	-0.434640	-11.608426	
0.14086	-3.464009	-109.755665	-1.015081
-0.001831	-0.029857	-8.852676	
0.28173	-3.464009	-109.755665	-1.015081
-0.001831	-0.177644	-7.652739	
0.42259	-3.464009	-109.755665	-1.015081
-0.001831	-0.356160	-9.242526	
0.56346	-3.464009	-109.755665	-1.015081
-0.001831	-0.536015	-12.334808	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.365480	42.439589	0.649923
0.008257	0.277055	84.139793	
0.14086	16.365480	42.439589	0.649923
0.008257	0.027823	136.750095	
0.28173	16.365480	42.439589	0.649923
0.008257	0.566185	192.888910	
0.42259	16.365480	42.439589	0.649923
0.008257	1.127958	254.053863	
0.56346	16.365480	42.439589	0.649923
0.008257	1.690986	322.269060	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.754925	-168.658570	-1.343236
-0.001658	-0.571614	-16.766074	
0.14086	-3.754925	-168.658570	-1.343236
-0.001658	-0.029841	-15.826450	
0.28173	-3.754925	-168.658570	-1.343236
-0.001658	-0.267880	-20.146483	
0.42259	-3.754925	-168.658570	-1.343236
-0.001658	-0.538972	-26.588885	
0.56346	-3.754925	-168.658570	-1.343236
-0.001658	-0.811295	-34.133674	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.580032	96.110823	0.947197
0.005552	0.403533	74.329568	
0.14086	14.580032	96.110823	0.947197
0.005552	0.025623	130.458593	
0.28173	14.580032	96.110823	0.947197
0.005552	0.721673	190.135395	
0.42259	14.580032	96.110823	0.947197
0.005552	1.450238	253.119720	
0.56346	14.580032	96.110823	0.947197
0.005552	2.179492	320.428724	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.666100	-164.584502	-1.739982
-0.002070	-0.744024	-22.937435	
0.14086	-9.666100	-164.584502	-1.739982
-0.002070	-0.033477	-48.972650	
0.28173	-9.666100	-164.584502	-1.739982
-0.002070	-0.389180	-80.196516	
0.42259	-9.666100	-164.584502	-1.739982
-0.002070	-0.786234	-113.234971	
0.56346	-9.666100	-164.584502	-1.739982
-0.002070	-1.183297	-147.178285	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.610700	141.060607	0.684367
2.62E-05	0.291436	4.218623	
0.14086	0.610700	141.060607	0.684367
2.62E-05	0.004500	9.666444	
0.28173	0.610700	141.060607	0.684367
2.62E-05	0.409810	15.474459	
0.42259	0.610700	141.060607	0.684367
2.62E-05	0.838909	21.366232	
0.56346	0.610700	141.060607	0.684367
2.62E-05	1.268271	27.294645	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2908
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.216254	-14.346309	-1.024066
-0.002224	-0.497109	-35.397060	
0.14086	-13.216254	-14.346309	-1.024066
-0.002224	-0.023972	-93.938988	
0.28173	-13.216254	-14.346309	-1.024066
-0.002224	-0.280983	-152.721261	
0.42259	-13.216254	-14.346309	-1.024066
-0.002224	-0.568949	-211.579995	
0.56346	-13.216254	-14.346309	-1.024066
-0.002224	-0.856062	-270.650298	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.310685	192.426451	0.962643
0.009194	0.409311	90.720704	
0.14086	1.310685	192.426451	0.962643
0.009194	0.008137	84.060149	
0.28173	1.310685	192.426451	0.962643
0.009194	0.624565	78.722355	
0.42259	1.310685	192.426451	0.962643
0.009194	1.273119	80.498465	
0.56346	1.310685	192.426451	0.962643
0.009194	1.923880	93.211306	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.199891	-38.623462	-1.552747
-0.004847	-0.697004	-33.793015	
0.14086	-19.199891	-38.623462	-1.552747
-0.004847	-0.065436	-94.711944	
0.28173	-19.199891	-38.623462	-1.552747
-0.004847	-0.398560	-156.376357	
0.42259	-19.199891	-38.623462	-1.552747
-0.004847	-0.801018	-219.188446	
0.56346	-19.199891	-38.623462	-1.552747
-0.004847	-1.204820	-284.193967	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.393320	164.603272	0.999475
0.007639	0.424868	82.538225	
0.14086	7.393320	164.603272	0.999475
0.007639	0.021548	104.200377	
0.28173	7.393320	164.603272	0.999475
0.007639	0.737309	126.288950	
0.42259	7.393320	164.603272	0.999475
0.007639	1.491265	153.492107	
0.56346	7.393320	164.603272	0.999475
0.007639	2.246486	188.468212	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.107874	-89.743716	-1.802729
-0.003879	-0.787607	-33.079608	
0.14086	-16.107874	-89.743716	-1.802729
-0.003879	-0.053206	-87.938830	
0.28173	-16.107874	-89.743716	-1.802729
-0.003879	-0.411980	-143.434617	
0.42259	-16.107874	-89.743716	-1.802729
-0.003879	-0.830253	-200.588340	
0.56346	-16.107874	-89.743716	-1.802729
-0.003879	-1.249303	-258.129120	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.187670	145.394634	1.042589
0.007235	0.444102	74.195706	
0.14086	13.187670	145.394634	1.042589
0.007235	0.026634	114.315007	
0.28173	13.187670	145.394634	1.042589
0.007235	0.773573	157.531081	
0.42259	13.187670	145.394634	1.042589
0.007235	1.558420	205.595794	
0.56346	13.187670	145.394634	1.042589
0.007235	2.344126	260.248578	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2909
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.878861	-135.939023	-1.875236
-0.003226	-0.810075	-39.402148	
0.14086	-13.878861	-135.939023	-1.875236
-0.003226	-0.046100	-82.512179	
0.28173	-13.878861	-135.939023	-1.875236
-0.003226	-0.429240	-129.987360	
0.42259	-13.878861	-135.939023	-1.875236
-0.003226	-0.865754	-180.362533	
0.56346	-13.878861	-135.939023	-1.875236
-0.003226	-1.302921	-231.708368	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.191364	171.757146	0.724859
0.008772	0.309794	93.893181	
0.14086	16.191364	171.757146	0.724859
0.008772	0.030961	148.692740	
0.28173	16.191364	171.757146	0.724859
0.008772	0.479318	205.888207	
0.42259	16.191364	171.757146	0.724859
0.008772	0.966498	264.278196	
0.56346	16.191364	171.757146	0.724859
0.008772	1.454322	330.364996	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.884646	-162.790201	-1.163022
-0.004605	-0.508807	-36.783345	
0.14086	-18.884646	-162.790201	-1.163022
-0.004605	-0.060753	-82.557034	
0.28173	-18.884646	-162.790201	-1.163022
-0.004605	-0.298121	-137.012521	
0.42259	-18.884646	-162.790201	-1.163022
-0.004605	-0.602321	-192.721113	
0.56346	-18.884646	-162.790201	-1.163022
-0.004605	-0.906389	-250.739118	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.901078	192.426451	1.042589
0.009194	0.444102	90.720704	
0.14086	16.901078	192.426451	1.042589
0.009194	0.027823	149.311305	
0.28173	16.901078	192.426451	1.042589
0.009194	0.773573	215.414907	
0.42259	16.901078	192.426451	1.042589
0.009194	1.558420	285.467120	
0.56346	16.901078	192.426451	1.042589
0.009194	2.344126	360.709062	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.199891	-184.335171	-1.875236
-0.004847	-0.810075	-39.402148	
0.14086	-19.199891	-184.335171	-1.875236
-0.004847	-0.065436	-94.711944	
0.28173	-19.199891	-184.335171	-1.875236
-0.004847	-0.429240	-156.376357	
0.42259	-19.199891	-184.335171	-1.875236
-0.004847	-0.865754	-219.188446	
0.56346	-19.199891	-184.335171	-1.875236
-0.004847	-1.302921	-284.193967	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.901078	192.426451	1.042589
0.009194	0.444102	93.893181	
0.14086	16.901078	192.426451	1.042589
0.009194	0.030961	149.311305	
0.28173	16.901078	192.426451	1.042589
0.009194	0.773573	215.414907	
0.42259	16.901078	192.426451	1.042589
0.009194	1.558420	285.467120	
0.56346	16.901078	192.426451	1.042589
0.009194	2.344126	360.709062	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2910
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.199891	-184.335171	-1.875236
-0.004847	-0.810075	-39.402148	
0.14086	-19.199891	-184.335171	-1.875236
-0.004847	-0.065436	-94.711944	
0.28173	-19.199891	-184.335171	-1.875236
-0.004847	-0.429240	-156.376357	
0.42259	-19.199891	-184.335171	-1.875236
-0.004847	-0.865754	-219.188446	
0.56346	-19.199891	-184.335171	-1.875236
-0.004847	-1.302921	-284.193967	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.901078	192.426451	1.042589
0.009194	0.444102	93.893181	
0.14086	16.901078	192.426451	1.042589
0.009194	0.030961	149.311305	

```
 0.28173    16.901078   192.426451    1.042589
 0.009194    0.773573   215.414907
 0.42259    16.901078   192.426451    1.042589
 0.009194    1.558420   285.467120
 0.56346    16.901078   192.426451    1.042589
 0.009194    2.344126   360.709062

COMB  DESIGN  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -19.199891  -184.335171  -1.875236
-0.004847   -0.810075  -39.402148
 0.14086   -19.199891  -184.335171  -1.875236
-0.004847   -0.065436  -94.711944
 0.28173   -19.199891  -184.335171  -1.875236
-0.004847   -0.429240  -156.376357
 0.42259   -19.199891  -184.335171  -1.875236
-0.004847   -0.865754  -219.188446
 0.56346   -19.199891  -184.335171  -1.875236
-0.004847   -1.302921  -284.193967

ELEM       270 ================== LENGTH
=     2.977332

COMB DB-G1-1  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    4.086082    3.742153    0.350357
 0.001538   0.382505    4.870786
 0.57747    4.086082    3.742153    0.350357
 0.001538   0.235587    3.323056
 0.71832    4.086082    3.742153    0.350357
 0.001538   0.088662    2.265043
 0.85916    4.086082    3.742153    0.350357
 0.001538   0.068273    2.070679
 1.00000    4.086082    3.742153    0.350357
 0.001538   0.243651    1.973100

COMB DB-G1-1  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -0.597087  -12.442530   -0.418214
-9.53E-06   -0.457858   -35.347770
 0.57747   -0.597087  -12.442530   -0.418214
-9.53E-06   -0.282488   -30.935834
 0.71832   -0.597087  -12.442530   -0.418214
-9.53E-06   -0.107118   -26.665603
 0.85916   -0.597087  -12.442530   -0.418214
-9.53E-06   -0.058243   -22.472634
 1.00000   -0.597087  -12.442530   -0.418214
-9.53E-06   -0.205159   -18.330800

COMB DB-G1-2  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    5.778980    6.718275    0.570895
 0.002799   0.623731    9.844618
 0.57747    5.778980    6.718275    0.570895
 0.002799   0.384325    7.121377
 0.71832    5.778980    6.718275    0.570895
 0.002799   0.144904    4.950414
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              2911

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
 0.85916    5.778980    6.718275    0.570895
 0.002799   0.136011    5.137127
 1.00000    5.778980    6.718275    0.570895
 0.002799   0.486701    7.822262

COMB DB-G1-2  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -3.239962  -24.932401   -0.836301
-0.000196   -0.916749   -76.113464
 0.57747   -3.239962  -24.932401   -0.836301
-0.000196   -0.566076   -67.397424
 0.71832   -3.239962  -24.932401   -0.836301
-0.000196   -0.215402   -59.460367
 0.85916   -3.239962  -24.932401   -0.836301
-0.000196   -0.094655   -51.722505
 1.00000   -3.239962  -24.932401   -0.836301
-0.000196   -0.333841   -44.127643

COMB DB-G1-3  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    5.526470   41.311543    0.619202
 0.002548   0.677120   99.879085
 0.57747    5.526470   41.311543    0.619202
 0.002548   0.417468   82.999172
 0.71832    5.526470   41.311543    0.619202
 0.002548   0.157817   66.276673
 0.85916    5.526470   41.311543    0.619202
 0.002548   0.189418   51.241431
 1.00000    5.526470   41.311543    0.619202
 0.002548   0.681622   39.843970

COMB DB-G1-3  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -5.703504  -27.282946   -1.173567
-6.13E-06   -1.286863   -55.324588
 0.57747   -5.703504  -27.282946   -1.173567
-6.13E-06   -0.794748   -49.384942
 0.71832   -5.703504  -27.282946   -1.173567
-6.13E-06   -0.302663   -43.484310
 0.85916   -5.703504  -27.282946   -1.173567
-6.13E-06   -0.101762   -37.600602
 1.00000   -5.703504  -27.282946   -1.173567
-6.13E-06   -0.361487   -31.722482

COMB DB-G1-4  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   10.222386   41.651936    0.795013
 0.005911   0.869718   105.277447
 0.57747   10.222386   41.651936    0.795013
 0.005911   0.536343   89.002569
 0.71832   10.222386   41.651936    0.795013
 0.005911   0.202849   79.042198
 0.85916   10.222386   41.651936    0.795013
 0.005911   0.226339   87.797149
 1.00000   10.222386   41.651936    0.795013
 0.005911   0.779474   108.187874

COMB DB-G1-4  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -6.000443  -96.922321   -1.318943
-0.003957   -1.445999   -98.158392
 0.57747   -6.000443  -96.922321   -1.318943
-0.003957   -0.893215   -63.718700
 0.71832   -6.000443  -96.922321   -1.318943
-0.003957   -0.340513   -43.287312
 0.85916   -6.000443  -96.922321   -1.318943
-0.003957   -0.113484   -31.585460
 1.00000   -6.000443  -96.922321   -1.318943
-0.003957   -0.463782   -26.529558

COMB DB-G2-1  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    1.343896   10.343654    0.205734
 0.001032   0.225306   21.195643
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              2912

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
 0.57747    1.343896   10.343654    0.205734
 0.001032   0.139034   17.460301
 0.71832    1.343896   10.343654    0.205734
 0.001032   0.052692   14.145320
 0.85916    1.343896   10.343654    0.205734
 0.001032   0.080071   12.038052
 1.00000    1.343896   10.343654    0.205734
 0.001032   0.289538   11.814256

COMB DB-G2-1  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -3.966901  -11.709578   -0.499488
-1.38E-05   -0.548327   -29.202109
 0.57747   -3.966901  -11.709578   -0.499488
-1.38E-05   -0.338875   -26.526621
 0.71832   -3.966901  -11.709578   -0.499488
-1.38E-05   -0.129424   -24.285179
 0.85916   -3.966901  -11.709578   -0.499488
-1.38E-05   -0.033452   -22.961098
 1.00000   -3.966901  -11.709578   -0.499488
-1.38E-05   -0.119780   -21.682435

COMB DB-G2-2  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    5.778246   44.452051    0.371267
 0.006073   0.406855   120.433174
 0.57747    5.778246   44.452051    0.371267
 0.006073   0.251170   103.150427
 0.71832    5.778246   44.452051    0.371267
 0.006073   0.095356   94.271326
 0.85916    5.778246   44.452051    0.371267
 0.006073   0.170842   103.935157
 1.00000    5.778246   44.452051    0.371267
 0.006073   0.567586   117.420004

COMB DB-G2-2  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -6.059962  -77.278328   -0.945861
-0.004438   -1.036965   -48.557414
 0.57747   -6.059962  -77.278328   -0.945861
-0.004438   -0.640734   -23.019055
 0.71832   -6.059962  -77.278328   -0.945861
-0.004438   -0.244534   -16.248360
 0.85916   -6.059962  -77.278328   -0.945861
-0.004438   -0.066384   -14.388023
 1.00000   -6.059962  -77.278328   -0.945861
-0.004438   -0.215884   -12.619956

COMB DB-G2-3  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    7.890148   42.651325    0.598646
 0.006658   0.655030   111.411856
 0.57747    7.890148   42.651325    0.598646
 0.006658   0.403998   94.763429
 0.71832    7.890148   42.651325    0.598646
 0.006658   0.152832   85.696678
 0.85916    7.890148   42.651325    0.598646
 0.006658   0.212076   94.485649
 1.00000    7.890148   42.651325    0.598646
 0.006658   0.719954   106.693619

COMB DB-G2-3  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -6.135048  -79.578317   -1.210897
-0.004011   -1.327413   -72.675753
 0.57747   -6.135048  -79.578317   -1.210897
-0.004011   -0.820006   -46.508172
 0.71832   -6.135048  -79.578317   -1.210897
-0.004011   -0.312622   -37.301453
 0.85916   -6.135048  -79.578317   -1.210897
-0.004011   -0.103562   -32.532675
 1.00000   -6.135048  -79.578317   -1.210897
-0.004011   -0.349099   -27.847788
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              2913

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    9.149899   45.906841    0.853082
 0.004827   0.933574   106.841234
 0.57747    9.149899   45.906841    0.853082
 0.004827   0.575849   86.481956
 0.71832    9.149899   45.906841    0.853082
 0.004827   0.218020   75.143644
 0.85916    9.149899   45.906841    0.853082
 0.004827   0.229293   77.355660
 1.00000    9.149899   45.906841    0.853082
 0.004827   0.799035   93.564900

COMB DB-G2-4  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -7.118254  -91.195402   -1.358542
-0.003866   -1.490482   -102.042169
 0.57747   -7.118254  -91.195402   -1.358542
-0.003866   -0.921076   -69.690452
 0.71832   -7.118254  -91.195402   -1.358542
-0.003866   -0.351693   -48.290469
 0.85916   -7.118254  -91.195402   -1.358542
-0.003866   -0.143182   -30.228657
 1.00000   -7.118254  -91.195402   -1.358542
-0.003866   -0.497328   -25.762460

COMB DB-G3-1  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    2.831483   21.910084    0.604574
 1.15E-05   0.661797   21.535844
 0.57747    2.831483   21.910084    0.604574
 1.15E-05   0.408279   12.711939
 0.71832    2.831483   21.910084    0.604574
 1.15E-05   0.154737    4.438133
 0.85916    2.831483   21.910084    0.604574
 1.15E-05   0.092925    2.918245
 1.00000    2.831483   21.910084    0.604574
 1.15E-05   0.331299    2.784082

COMB DB-G3-1  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -3.803610  -19.868248   -0.568425
-0.001962   -0.622163   -56.361120
 0.57747   -3.803610  -19.868248   -0.568425
-0.001962   -0.383804   -48.267794
 0.71832   -3.803610  -19.868248   -0.568425
-0.001962   -0.145422   -40.800718
 0.85916   -3.803610  -19.868248   -0.568425
-0.001962   -0.098751   -32.476115
 1.00000   -3.803610  -19.868248   -0.568425
-0.001962   -0.352275   -25.236304

COMB DB-G3-2  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    9.225743   41.979754    0.851913
 0.006211   0.932678   87.264412
 0.57747    9.225743   41.979754    0.851913
 0.006211   0.575443   70.963319
 0.71832    9.225743   41.979754    0.851913
 0.006211   0.218118   65.067159
 0.85916    9.225743   41.979754    0.851913
 0.006211   0.177191   86.555942
 1.00000    9.225743   41.979754    0.851913
 0.006211   0.574480   112.234715

COMB DB-G3-2  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -5.235593  -109.253703   -0.947317
-0.007664   -1.036453   -104.656525
 0.57747   -5.235593  -109.253703   -0.947317
-0.007664   -0.640059   -62.124064
 0.71832   -5.235593  -109.253703   -0.947317
-0.007664   -0.245335   -42.706317
 0.85916   -5.235593  -109.253703   -0.947317
-0.007664   -0.146328   -29.546654
 1.00000   -5.235593  -109.253703   -0.947317
-0.007664   -0.496262   -20.050793
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              2914

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    7.960691   59.168874    0.866774
 0.004768   0.949275   126.052073
 0.57747    7.960691   59.168874    0.866774
 0.004768   0.585808   102.537202
 0.71832    7.960691   59.168874    0.866774
 0.004768   0.222207   86.206373
 0.85916    7.960691   59.168874    0.866774
 0.004768   0.222430   90.571222
 1.00000    7.960691   59.168874    0.866774
 0.004768   0.757600   100.953482

COMB DB-G3-3  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -8.073788  -92.537282   -1.275941
-0.005721   -1.398597   -88.763227
 0.57747   -8.073788  -92.537282   -1.275941
-0.005721   -0.864765   -56.063103
 0.71832   -8.073788  -92.537282   -1.275941
-0.005721   -0.330964   -39.294894
 0.85916   -8.073788  -92.537282   -1.275941
-0.005721   -0.146157   -26.964172
 1.00000   -8.073788  -92.537282   -1.275941
-0.005721   -0.504593   -18.384938

COMB DB-G3-4  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    8.374439   51.250678    0.931619
 0.004931   1.019774   107.649442
 0.57747    8.374439   51.250678    0.931619
 0.004931   0.629117   87.226699
 0.71832    8.374439   51.250678    0.931619
 0.004931   0.238332   72.843828
 0.85916    8.374439   51.250678    0.931619
 0.004931   0.237854   76.158683
 1.00000    8.374439   51.250678    0.931619
 0.004931   0.821146   85.095825

COMB DB-G3-4  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -8.504856  -85.319248   -1.390506
-0.004745   -1.524533   -105.941794
 0.57747   -8.504856  -85.319248   -1.390506
-0.004745   -0.942425   -75.669724
 0.71832   -8.504856  -85.319248   -1.390506
-0.004745   -0.360348   -58.569619
 0.85916   -8.504856  -85.319248   -1.390506
-0.004745   -0.156379   -45.089977
 1.00000   -8.504856  -85.319248   -1.390506
-0.004745   -0.542861   -34.751576

COMB DL-G1-1  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    4.798895    4.622947    0.456492
 0.001619   0.498631    6.978048
 0.57747    4.798895    4.622947    0.456492
 0.001619   0.307234    5.516417
 0.71832    4.798895    4.622947    0.456492
 0.001619   0.115868    4.134795
 0.85916    4.798895    4.622947    0.456492
 0.001619   0.113077    3.093377
 1.00000    4.798895    4.622947    0.456492
 0.001619   0.402271    2.928857

COMB DL-G1-1  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -0.881591  -15.494745   -0.687463
-6.75E-06   -0.751408   -41.201335
 0.57747   -0.881591  -15.494745   -0.687463
-6.75E-06   -0.374401   -31.214528
 0.71832   -0.881591  -15.494745   -0.687463
-6.75E-06   -0.174568   -29.316671
 0.85916   -0.881591  -15.494745   -0.687463
-6.75E-06   -0.075601   -23.716399
 1.00000   -0.881591  -15.494745   -0.687463
-6.75E-06   -0.267107   -18.971386
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              2915

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    6.326479    8.396937    0.753464
 0.002758   0.823210   11.804185
 0.57747    6.326479    8.396937    0.753464
 0.002758   0.507301    8.693716
 0.71832    6.326479    8.396937    0.753464
 0.002758   0.191493    6.054602
 0.85916    6.326479    8.396937    0.753464
 0.002758   0.211356    5.341050
 1.00000    6.326479    8.396937    0.753464
 0.002758   0.755939    7.556754

COMB DL-G1-2  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -3.114434  -29.950335   -1.297879
-0.000131   -1.420841   -80.464497
 0.57747   -3.114434  -29.950335   -1.297879
-0.000131   -0.876944   -68.823658
 0.71832   -3.114434  -29.950335   -1.297879
-0.000131   -0.332219   -57.776510
 0.85916   -3.114434  -29.950335   -1.297879
-0.000131   -0.124957   -47.692172
 1.00000   -3.114434  -29.950335   -1.297879
-0.000131   -0.440716   -39.612772

COMB DL-G1-3  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    6.126580   35.599028    0.860554
 0.002488   0.941183   89.060091
 0.57747    6.126580   35.599028    0.860554
 0.002488   0.579591   76.495243
 0.71832    6.126580   35.599028    0.860554
 0.002488   0.218854   64.147523
 0.85916    6.126580   35.599028    0.860554
 0.002488   0.276650   53.079307
 1.00000    6.126580   35.599028    0.860554
 0.002488   0.994131   45.295298

COMB DL-G1-3  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -5.139454  -31.943829   -1.711445
-1.67E-05   -1.873916   -64.283687
 0.57747   -5.139454  -31.943829   -1.711445
-1.67E-05   -1.157099   -55.230564
 0.71832   -5.139454  -31.943829   -1.711445
-1.67E-05   -0.438971   -46.330139
 0.85916   -5.139454  -31.943829   -1.711445
-1.67E-05   -0.140602   -38.000723
 1.00000   -5.139454  -31.943829   -1.711445
-1.67E-05   -0.501122   -31.319920

COMB DL-G1-4  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    9.476800   36.168432    1.122816
 0.004960   1.226721   94.708541
 0.57747    9.476800   36.168432    1.122816
 0.004960   0.755343   82.356086
 0.71832    9.476800   36.168432    1.122816
 0.004960   0.285068   76.333139
 0.85916    9.476800   36.168432    1.122816
 0.004960   0.340472   84.617819
 1.00000    9.476800   36.168432    1.122816
 0.004960   1.191733   98.631218

COMB DL-G1-4  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -5.430465  -86.071931   -2.032122
-0.003471   -2.223084   -98.464458
 0.57747   -5.430465  -86.071931   -2.032122
-0.003471   -1.371688   -86.693376
 0.71832   -5.430465  -86.071931   -2.032122
-0.003471   -0.520485   -45.345912
 0.85916   -5.430465  -86.071931   -2.032122
-0.003471   -0.192727   -32.044033
 1.00000   -5.430465  -86.071931   -2.032122
-0.003471   -0.661654   -26.227196
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              2916

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    1.300911    8.644577    0.293383
 0.000963   0.320799   17.003937
 0.57747    1.300911    8.644577    0.293383
 0.000963   0.197930   14.058585
 0.71832    1.300911    8.644577    0.293383
 0.000963   0.075194   11.811330
 0.85916    1.300911    8.644577    0.293383
 0.000963   0.109210   10.642772
 1.00000    1.300911    8.644577    0.293383
 0.000963   0.394822   11.790189

COMB DL-G2-1  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -3.196452  -12.481352   -0.681969
-8.50E-06   -0.748153   -29.258447
 0.57747   -3.196452  -12.481352   -0.681969
-8.50E-06   -0.462286   -25.112087
 0.71832   -3.196452  -12.481352   -0.681969
-8.50E-06   -0.176482   -21.616937
 0.85916   -3.196452  -12.481352   -0.681969
-8.50E-06   -0.047868   -19.137790
 1.00000   -3.196452  -12.481352   -0.681969
-8.50E-06   -0.170587   -17.459472

COMB DL-G2-2  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    4.985301   36.383786    0.549006
 0.005136   0.598528   102.670313
 0.57747    4.985301   36.383786    0.549006
 0.005136   0.367554   91.010468
 0.71832    4.985301   36.383786    0.549006
 0.005136   0.138648   87.565067
 0.85916    4.985301   36.383786    0.549006
 0.005136   0.226441   98.442725
 1.00000    4.985301   36.383786    0.549006
 0.005136   0.768799   111.574955

COMB DL-G2-2  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -4.960162  -66.933237   -1.296076
-0.004183   -1.416798   -44.659981
 0.57747   -4.960162  -66.933237   -1.296076
-0.004183   -0.873674   -21.787873
 0.71832   -4.960162  -66.933237   -1.296076
-0.004183   -0.332029   -14.147063
 0.85916   -4.960162  -66.933237   -1.296076
-0.004183   -0.103300   -11.886598
 1.00000   -4.960162  -66.933237   -1.296076
-0.004183   -0.330185   -10.395354

COMB DL-G2-3  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    7.353207   35.917490    0.839671
 0.005862   0.916113   96.619624
 0.57747    7.353207   35.917490    0.839671
 0.005862   0.563381   84.861893
 0.71832    7.353207   35.917490    0.839671
 0.005862   0.212545   80.602336
 0.85916    7.353207   35.917490    0.839671
 0.005862   0.297284   89.937246
 1.00000    7.353207   35.917490    0.839671
 0.005862   1.026330   101.859627

COMB DL-G2-3  ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.43663   -5.441154  -72.934181   -1.740531
-0.003786   -1.903447   -74.756897
 0.57747   -5.441154  -72.934181   -1.740531
-0.003786   -1.174415   -49.241487
 0.71832   -5.441154  -72.934181   -1.740531
-0.003786   -0.445523   -37.618392
 0.85916   -5.441154  -72.934181   -1.740531
-0.003786   -0.150275   -31.065559
 1.00000   -5.441154  -72.934181   -1.740531
-0.003786   -0.499336   -25.781285
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                              2917

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4  ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.43663    8.210353   39.432107    1.218086
 0.004077   1.331649   93.659048
 0.57747    8.210353   39.432107    1.218086
 0.004077   0.820346   79.725059
```

0.71832 8.210353 39.432107 1.218086
0.004077 0.309804 70.756391
0.85916 8.210353 39.432107 1.218086
0.004077 0.356833 73.997355
1.00000 8.210353 39.432107 1.218086
0.004077 1.260103 84.357314

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -6.413090 -81.182894 -2.156348
-0.003560 -2.361075 -97.128955
0.57747 -6.413090 -81.182894 -2.156348
-0.003560 -1.457845 -67.213582
0.71832 -6.413090 -81.182894 -2.156348
-0.003560 -0.554177 -45.808486
0.85916 -6.413090 -81.182894 -2.156348
-0.003560 -0.206044 -28.619642
1.00000 -6.413090 -81.182894 -2.156348
-0.003560 -0.715406 -23.599945

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 2.623976 21.091257 0.878690
7.75E-06 0.961982 20.263496
0.57747 2.623976 21.091257 0.878690
7.75E-06 0.593600 12.021670
0.71832 2.623976 21.091257 0.878690
7.75E-06 0.224196 4.616233
0.85916 2.623976 21.091257 0.878690
7.75E-06 0.186441 3.063152
1.00000 2.623976 21.091257 0.878690
7.75E-06 0.673504 3.107153

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -3.639606 -18.348934 -1.162477
-0.002082 -1.274385 -48.007188
0.57747 -3.639606 -18.348934 -1.162477
-0.002082 -0.787214 -40.837813
0.71832 -3.639606 -18.348934 -1.162477
-0.002082 -0.299998 -34.312662
0.85916 -3.639606 -18.348934 -1.162477
-0.002082 -0.142632 -31.129285
1.00000 -3.639606 -18.348934 -1.162477
-0.002082 -0.511852 -29.227757

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 8.424752 37.491252 1.241995
0.006095 1.355900 78.138363
0.57747 8.424752 37.491252 1.241995
0.006095 0.835056 64.552281
0.71832 8.424752 37.491252 1.241995
0.006095 0.314832 62.952879
0.85916 8.424752 37.491252 1.241995
0.006095 0.315079 85.938913
1.00000 8.424752 37.491252 1.241995
0.006095 1.065238 112.309562

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -4.833218 -100.271099 -1.792330
-0.008260 -2.958989 -93.991289
0.57747 -4.833218 -100.271099 -1.792330
-0.008260 -1.208039 -54.008315
0.71832 -4.833218 -100.271099 -1.792330
-0.008260 -0.459591 -35.973907
0.85916 -4.833218 -100.271099 -1.792330
-0.008260 -0.222653 -25.487635
1.00000 -4.833218 -100.271099 -1.792330
-0.008260 -0.740166 -24.530243
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2918
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 7.449569 49.129873 1.280311
0.004812 1.399253 104.700114
0.57747 7.449569 49.129873 1.280311
0.004812 0.861794 87.505914
0.71832 7.449569 49.129873 1.280311
0.004812 0.325274 79.601477
0.85916 7.449569 49.129873 1.280311
0.004812 0.362580 90.478147
1.00000 7.449569 49.129873 1.280311
0.004812 1.258585 105.972712

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -7.087561 -86.207793 -2.139876
-0.006366 -2.341363 -80.531700
0.57747 -7.087561 -86.207793 -2.139876
-0.006366 -1.445385 -61.151345
0.71832 -7.087561 -86.207793 -2.139876
-0.006366 -0.550534 -33.905899
0.85916 -7.087561 -86.207793 -2.139876
-0.006366 -0.222208 -26.801760
1.00000 -7.087561 -86.207793 -2.139876
-0.006366 -0.756347 -23.168806

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 8.007623 43.461196 1.341160
0.004982 1.465755 90.653336
0.57747 8.007623 43.461196 1.341160
0.004982 0.902895 75.403863
0.71832 8.007623 43.461196 1.341160
0.004982 0.340773 67.817065
0.85916 8.007623 43.461196 1.341160
0.004982 0.383121 76.390246
1.00000 8.007623 43.461196 1.341160
0.004982 1.340653 89.756659

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -7.480011 -82.892342 -2.285834
-0.005291 -2.502122 -100.644192
0.57747 -7.480011 -82.892342 -2.285834
-0.005291 -1.544721 -70.037198
0.71832 -7.480011 -82.892342 -2.285834
-0.005291 -0.588130 -52.818078
0.85916 -7.480011 -82.892342 -2.285834
-0.005291 -0.230424 -42.571541
1.00000 -7.480011 -82.892342 -2.285834
-0.005291 -0.790533 -36.042473

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 10.222386 59.168874 0.931619
0.006658 1.019774 126.052073
0.57747 10.222386 59.168874 0.931619
0.006658 0.629117 103.150427
0.71832 10.222386 59.168874 0.931619
0.006658 0.238332 94.271326
0.85916 10.222386 59.168874 0.931619
0.006658 0.237954 103.935157
1.00000 10.222386 59.168874 0.931619
0.006658 0.821146 117.420004

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -8.504856 -109.253703 -1.390506
-0.007664 -1.524533 -105.941794
0.57747 -8.504856 -109.253703 -1.390506
-0.007664 -0.942425 -75.669724
0.71832 -8.504856 -109.253703 -1.390506
-0.007664 -0.360348 -59.460367
0.85916 -8.504856 -109.253703 -1.390506
-0.007664 -0.156379 -51.722505
1.00000 -8.504856 -109.253703 -1.390506
-0.007664 -0.542861 -44.127643
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2919
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 9.476800 49.129873 1.341160
0.006095 1.465755 104.700114
0.57747 9.476800 49.129873 1.341160
0.006095 0.902895 91.010468
0.71832 9.476800 49.129873 1.341160
0.006095 0.340773 87.565067
0.85916 9.476800 49.129873 1.341160
0.006095 0.383121 98.442725
1.00000 9.476800 49.129873 1.341160
0.006095 1.340653 112.309562

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -7.480011 -100.271099 -2.285834
-0.008260 -2.502122 -100.644192
0.57747 -7.480011 -100.271099 -2.285834
-0.008260 -1.544721 -70.037198
0.71832 -7.480011 -100.271099 -2.285834
-0.008260 -0.588130 -57.776510
0.85916 -7.480011 -100.271099 -2.285834
-0.008260 -0.230424 -47.692172
1.00000 -7.480011 -100.271099 -2.285834
-0.008260 -0.790533 -39.612772

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 10.222386 59.168874 1.341160
0.006658 1.465755 126.052073
0.57747 10.222386 59.168874 1.341160
0.006658 0.902895 103.150427
0.71832 10.222386 59.168874 1.341160
0.006658 0.340773 94.271326
0.85916 10.222386 59.168874 1.341160
0.006658 0.383121 103.935157
1.00000 10.222386 59.168874 1.341160
0.006658 1.340653 117.420004

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -8.504856 -109.253703 -2.285834
-0.008260 -2.502122 -105.941794
0.57747 -8.504856 -109.253703 -2.285834
-0.008260 -1.544721 -75.669724
0.71832 -8.504856 -109.253703 -2.285834
-0.008260 -0.588130 -59.460367
0.85916 -8.504856 -109.253703 -2.285834
-0.008260 -0.230424 -51.722505
1.00000 -8.504856 -109.253703 -2.285834
-0.008260 -0.790533 -44.127643

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 10.222386 59.168874 1.341160
0.006658 1.465755 126.052073
0.57747 10.222386 59.168874 1.341160
0.006658 0.902895 103.150427
0.71832 10.222386 59.168874 1.341160
0.006658 0.340773 94.271326
0.85916 10.222386 59.168874 1.341160
0.006658 0.383121 103.935157
1.00000 10.222386 59.168874 1.341160
0.006658 1.340653 117.420004

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -8.504856 -109.253703 -2.285834
-0.008260 -2.502122 -105.941794
0.57747 -8.504856 -109.253703 -2.285834
-0.008260 -1.544721 -75.669724
0.71832 -8.504856 -109.253703 -2.285834
-0.008260 -0.588130 -59.460367
0.85916 -8.504856 -109.253703 -2.285834
-0.008260 -0.230424 -51.722505
1.00000 -8.504856 -109.253703 -2.285834
-0.008260 -0.790533 -44.127643
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2920
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 271 ========== LENGTH = 2.977211

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.127240 3.831086 0.343050
0.001027 0.198103 1.973444
0.14084 4.127240 3.831086 0.343050
0.001027 0.054263 2.706387
0.28167 4.127240 3.831086 0.343050
0.001027 0.103274 6.730569
0.42251 4.127240 3.831086 0.343050
0.001027 0.268082 11.362514
0.56335 4.127240 3.831086 0.343050
0.001027 0.432419 16.176894

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.604980 -12.530383 -0.391932
-7.47E-06 -0.224960 -18.336807
0.14084 -0.604980 -12.530383 -0.391932
-7.47E-06 0.060668 -14.231759
0.28167 -0.604980 -12.530383 -0.391932
-7.47E-06 -0.089569 -10.155713
0.42251 -0.604980 -12.530383 -0.391932
-7.47E-06 -0.233421 -6.595438
0.56335 -0.604980 -12.530383 -0.391932
-7.47E-06 -0.377263 -8.113820

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.735254 8.509699 0.562000
0.002051 0.324974 7.828948
0.14084 5.735254 8.509699 0.562000
0.002051 0.089448 11.872482
0.28167 5.735254 8.509699 0.562000
0.002051 0.204448 19.277347
0.42251 5.735254 8.509699 0.562000
0.002051 0.529023 27.769916
0.56335 5.735254 8.509699 0.562000
0.002051 0.853686 36.800804

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.292013 -22.987634 -0.774424
-0.000199 -0.445817 -44.137606
0.14084 -3.292013 -22.987634 -0.774424
-0.000199 -0.121156 -36.490594
0.28167 -3.292013 -22.987634 -0.774424
-0.000199 -0.146274 -28.959094
0.42251 -3.292013 -22.987634 -0.774424
-0.000199 0.381956 -22.022302
0.56335 -3.292013 -22.987634 -0.774424
-0.000199 -0.617604 -22.207097

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.653799 40.385354 0.609629
0.002375 0.352261 39.825875
0.14084 5.653799 40.385354 0.609629
0.002375 0.096419 38.718494
0.28167 5.653799 40.385354 0.609629
0.002375 0.290599 46.095871
0.42251 5.653799 40.385354 0.609629
0.002375 0.752985 55.619865
0.56335 5.653799 40.385354 0.609629
0.002375 1.215477 65.995203

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.582251 -27.478792 -1.103008
-6.72E-06 -0.634590 -31.728606
0.14084 -5.582251 -27.478792 -1.103008
-6.72E-06 -0.172189 -25.884215
0.28167 -5.582251 -27.478792 -1.103008
-6.72E-06 -0.158876 -23.791983
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2921
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42251 -5.582251 -27.478792 -1.103008
-6.72E-06 -0.414593 -30.933528
0.56335 -5.582251 -27.478792 -1.103008
-6.72E-06 -0.670212 -44.482570

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.832632 75.679092 0.783092
0.005039 0.452600 108.374838
0.14084 7.832632 75.679092 0.783092
0.005039 0.129160 103.611003
0.28167 7.832632 75.679092 0.783092
0.005039 0.334962 106.224701
0.42251 7.832632 75.679092 0.783092
0.005039 0.869307 121.410032
0.56335 7.832632 75.679092 0.783092
0.005039 1.403746 142.929086

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.479266 -57.265694 -1.276990
-0.004219 -0.749510 -26.534555
0.14084 -7.479266 -57.265694 -1.276990
-0.004219 -0.214153 -22.475449
0.28167 -7.479266 -57.265694 -1.276990
-0.004219 -0.203980 -22.761863
0.42251 -7.479266 -57.265694 -1.276990
-0.004219 -0.532456 -30.323957
0.56335 -7.479266 -57.265694 -1.276990
-0.004219 -0.860809 -53.878517

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.395508 10.012955 0.206159
0.000962 0.119748 11.806338
0.14084 1.395508 10.012955 0.206159
0.000962 0.033261 15.339475
0.28167 1.395508 10.012955 0.206159
0.000962 0.121493 19.669524
0.42251 1.395508 10.012955 0.206159
0.000962 0.209725 24.437907
0.56335 1.395508 10.012955 0.206159
0.000962 0.508969 29.064077

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.891471 -11.694512 -0.462099
-1.11E-05 -0.266145 -21.687428
0.14084 -3.891471 -11.694512 -0.462099
-1.11E-05 -0.072495 -20.322867
0.28167 -3.891471 -11.694512 -0.462099
-1.11E-05 -0.053067 -19.401612
0.42251 -3.891471 -11.694512 -0.462099
-1.11E-05 -0.139580 -20.022245
0.56335 -3.891471 -11.694512 -0.462099
-1.11E-05 -0.226024 -22.276756

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.375810 91.103199 0.367646
0.005593 0.212543 117.688154
0.14084 2.375810 91.103199 0.367646
0.005593 0.065296 93.871691
0.28167 2.375810 91.103199 0.367646
0.005593 0.237048 75.955839
0.42251 2.375810 91.103199 0.367646
0.005593 0.615385 74.162515
0.56335 2.375810 91.103199 0.367646
0.005593 0.993778 80.572588

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.116793 -21.985272 -0.905645
-0.005163 -0.540878 -12.619381
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2922
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 -8.116793 -21.985272 -0.905645
-0.005163 -0.161216 -10.995267
0.28167 -8.116793 -21.985272 -0.905645
-0.005163 -0.095629 -13.798272
0.42251 -8.116793 -21.985272 -0.905645
-0.005163 -0.249918 -25.894142
0.56335 -8.116793 -21.985272 -0.905645
-0.005163 -0.404073 -54.408587

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.854828 84.837053 0.590428
0.005881 0.341255 106.936290
0.14084 4.854828 84.837053 0.590428
0.005881 0.099903 87.394547
0.28167 4.854828 84.837053 0.590428
0.005881 0.301375 74.755335
0.42251 4.854828 84.837053 0.590428
0.005881 0.781513 76.936738
0.56335 4.854828 84.837053 0.590428
0.005881 1.261719 86.626901

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.978983 -29.741816 -1.148150
-0.004666 -0.678151 -27.851630
0.14084 -7.978983 -29.741816 -1.148150
-0.004666 -0.196836 -23.246087
0.28167 -7.978983 -29.741816 -1.148150
-0.004666 -0.153744 -22.912199
0.42251 -7.978983 -29.741816 -1.148150
-0.004666 -0.401446 -30.664494
0.56335 -7.978983 -29.741816 -1.148150
-0.004666 -0.649014 -54.102754

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.261114 73.301897 0.841370
0.004235 0.486467 93.709572
0.14084 7.261114 73.301897 0.841370
0.004235 0.137653 93.727054
0.28167 7.261114 73.301897 0.841370
0.004235 0.348947 100.307204
0.42251 7.261114 73.301897 0.841370
0.004235 0.907196 117.843671
0.56335 7.261114 73.301897 0.841370
0.004235 1.465496 140.629274

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.254263 -59.392207 -1.333401
-0.003999 -0.780337 -25.770438
0.14084 -8.254263 -59.392207 -1.333401
-0.003999 -0.221346 -26.102189
0.28167 -8.254263 -59.392207 -1.333401
-0.003999 -0.219003 -29.925303
0.42251 -8.254263 -59.392207 -1.333401
-0.003999 -0.571897 -40.927766
0.56335 -8.254263 -59.392207 -1.333401
-0.003999 -0.924685 -62.694765

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.932827 21.764916 0.596802
2.26E-05 0.345341 2.785507
0.14084 2.932827 21.764916 0.596802
2.26E-05 0.098098 3.389583
0.28167 2.932827 21.764916 0.596802
2.26E-05 0.154070 4.413342
0.42251 2.932827 21.764916 0.596802
2.26E-05 0.404262 6.255951
0.56335 2.932827 21.764916 0.596802
2.26E-05 0.654455 14.785179
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 2923
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.731690 -20.785713 -0.596692
-0.001749 -0.346347 -25.258037
0.14084 -3.731690 -20.785713 -0.596692
-0.001749 -0.096217 -28.366144
0.28167 -3.731690 -20.785713 -0.596692
-0.001749 -0.155126 -36.040778
0.42251 -3.731690 -20.785713 -0.596692
-0.001749 -0.405386 -44.498501
0.56335 -3.731690 -20.785713 -0.596692
-0.001749 -0.655622 -53.199333

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.096362 99.617355 0.840837
0.005315 0.486396 112.580835
0.14084 5.096362 99.617355 0.840837
0.005315 0.142370 83.733283
0.28167 5.096362 99.617355 0.840837
0.005315 0.259153 68.961198
0.42251 5.096362 99.617355 0.840837
0.005315 0.677440 73.824844
0.56335 5.096362 99.617355 0.840837
0.005315 1.095738 88.534037

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.804747 -43.033941 -1.001515
-0.008181 -0.603061 -20.069507
0.14084 -7.804747 -43.033941 -1.001515
-0.008181 -0.183129 -23.661946
0.28167 -7.804747 -43.033941 -1.001515
-0.008181 -0.218656 -35.198431
0.42251 -7.804747 -43.033941 -1.001515
-0.008181 -0.571308 -47.126258
0.56335 -7.804747 -43.033941 -1.001515
-0.008181 -0.923869 -78.414029

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.225037 97.879492 0.856069
0.004484 0.499099 101.179408
0.14084 5.225037 97.879492 0.856069
0.004484 0.141949 83.351765
0.28167 5.225037 97.879492 0.856069
0.004484 0.338467 78.997502
0.42251 5.225037 97.879492 0.856069
0.004484 0.882953 89.076915
0.56335 5.225037 97.879492 0.856069
0.004484 1.427501 106.248058

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.720497 -47.480024 -1.301384
-0.006001 -0.768302 -18.400209
0.14084 -9.720497 -47.480024 -1.301384
-0.006001 -0.222705 -24.663753
0.28167 -9.720497 -47.480024 -1.301384
-0.006001 -0.222679 -37.068624
0.42251 -9.720497 -47.480024 -1.301384
-0.006001 -0.581764 -57.340405
0.56335 -9.720497 -47.480024 -1.301384
-0.006001 -0.940713 -90.934191

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.148610 83.293399 0.919796
0.004445 0.531997 85.280963
0.14084 6.148610 83.293399 0.919796
0.004445 0.151023 73.059202
0.28167 6.148610 83.293399 0.919796
0.004445 0.361112 72.764803
0.42251 6.148610 83.293399 0.919796
0.004445 0.940429 84.579887
0.56335 6.148610 83.293399 0.919796
0.004445 1.519820 102.304218
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.837838	-48.119535	-1.384036
-0.004974	-0.812376	-34.767940	
0.14084	-9.837838	-48.119535	-1.384036
-0.004974	-0.232124	-36.747292	
0.28167	-9.837838	-48.119535	-1.384036
-0.004974	-0.239226	-43.481795	
0.42251	-9.837838	-48.119535	-1.384036
-0.004974	-0.625026	-57.458251	
0.56335	-9.837838	-48.119535	-1.384036
-0.004974	-1.010696	-82.967369	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.857954	4.693403	0.447931
0.001039	0.258794	2.928113	
0.14084	4.857954	4.693403	0.447931
0.001039	0.070859	3.833275	
0.28167	4.857954	4.693403	0.447931
0.001039	0.172068	7.365457	
0.42251	4.857954	4.693403	0.447931
0.001039	0.446180	11.931630	
0.56335	4.857954	4.693403	0.447931
0.001039	0.719387	17.030628	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.905849	-15.664068	-0.652471
-4.28E-06	-0.375304	-18.976484	
0.14084	-0.905849	-15.664068	-0.652471
-4.28E-06	-0.101002	-15.237904	
0.28167	-0.905849	-15.664068	-0.652471
-4.28E-06	-0.116991	-12.690309	
0.42251	-0.905849	-15.664068	-0.652471
-4.28E-06	-0.304752	-10.822312	
0.56335	-0.905849	-15.664068	-0.652471
-4.28E-06	-0.492544	-11.167466	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.365773	9.258442	0.741407
0.002060	0.428846	7.552623	
0.14084	6.365773	9.258442	0.741407
0.002060	0.118065	12.161087	
0.28167	6.365773	9.258442	0.741407
0.002060	0.320334	19.352322	
0.42251	6.365773	9.258442	0.741407
0.002060	0.832361	27.692219	
0.56335	6.365773	9.258442	0.741407
0.002060	1.343551	36.807419	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.179785	-28.999496	-1.220122
-0.000118	-0.602796	-39.620766	
0.14084	-3.179785	-28.999496	-1.220122
-0.000118	-0.190543	-33.494637	
0.28167	-3.179785	-28.999496	-1.220122
-0.000118	-0.193081	-28.839590	
0.42251	-3.179785	-28.999496	-1.220122
-0.000118	-0.503891	-25.696213	
0.56335	-3.179785	-28.999496	-1.220122
-0.000118	-0.814716	-25.563156	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.261880	34.683689	0.849214
0.002357	0.490147	45.274297	
0.14084	6.261880	34.683689	0.849214
0.002357	0.134472	44.405251	
0.28167	6.261880	34.683689	0.849214
0.002357	0.424882	49.165859	
0.42251	6.261880	34.683689	0.849214
0.002357	1.104512	57.683720	
0.56335	6.261880	34.683689	0.849214
0.002357	1.782809	67.579278	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.069729	-32.244649	-1.619895
-1.03E-05	-0.931487	-31.323522	
0.14084	-5.069729	-32.244649	-1.619895
-1.03E-05	-0.752300	-26.324774	
0.28167	-5.069729	-32.244649	-1.619895
-1.03E-05	-0.220301	-26.193135	
0.42251	-5.069729	-32.244649	-1.619895
-1.03E-05	-0.576289	-33.872172	
0.56335	-5.069729	-32.244649	-1.619895
-1.03E-05	-0.933079	-44.492866	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.809434	61.288033	1.108774
0.004581	0.964499	98.629156	
0.14084	7.809434	61.288033	1.108774
0.004581	0.185747	96.861970	
0.28167	7.809434	61.288033	1.108774
0.004581	0.514333	100.329747	
0.42251	7.809434	61.288033	1.108774
0.004581	1.339734	113.304101	
0.56335	7.809434	61.288033	1.108774
0.004581	2.164811	132.568404	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.683387	-57.566830	-1.970592
-0.003278	-1.146469	-26.229954	
0.14084	-6.683387	-57.566830	-1.970592
-0.003278	-0.320736	-22.563684	
0.28167	-6.683387	-57.566830	-1.970592
-0.003278	-0.286483	-23.968408	
0.42251	-6.683387	-57.566830	-1.970592
-0.003278	-0.750876	-31.791457	
0.56335	-6.683387	-57.566830	-1.970592
-0.003278	-1.216292	-51.956578	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.355051	8.280981	0.291524
0.000970	0.168620	11.781360	
0.14084	1.355051	8.280981	0.291524
0.000970	0.046733	14.989000	
0.28167	1.355051	8.280981	0.291524
0.000970	0.166241	18.964509	
0.42251	1.355051	8.280981	0.291524
0.000970	0.433595	23.122228	
0.56335	1.355051	8.280981	0.291524
0.000970	0.700586	27.408684	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.159270	-12.503908	-0.637207
-6.35E-06	-0.367272	-17.460768	
0.14084	-3.159270	-12.503908	-0.637207
-6.35E-06	-0.100166	-16.338945	
0.28167	-3.159270	-12.503908	-0.637207
-6.35E-06	-0.075619	-16.158117	
0.42251	-3.159270	-12.503908	-0.637207
-6.35E-06	-0.197483	-17.276487	
0.56335	-3.159270	-12.503908	-0.637207
-6.35E-06	-0.319605	-19.195607	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.295317	74.837049	0.544343
0.005335	0.358123	111.594184	
0.14084	2.295317	74.837049	0.544343
0.005335	0.101454	91.321935	
0.28167	2.295317	74.837049	0.544343
0.005335	0.322055	74.913608	
0.42251	2.295317	74.837049	0.544343
0.005335	0.839682	70.938442	
0.56335	2.295317	74.837049	0.544343
0.005335	1.358867	75.625667	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.906138	-22.341242	-1.239625
-0.004311	-0.731871	-10.393166	
0.14084	-6.906138	-22.341242	-1.239625
-0.004311	-0.212944	-9.393375	
0.28167	-6.906138	-22.341242	-1.239625
-0.004311	-0.138852	-13.372147	
0.42251	-6.906138	-22.341242	-1.239625
-0.004311	-0.365777	-23.552014	
0.56335	-6.906138	-22.341242	-1.239625
-0.004311	-0.594719	-49.947177	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.973130	70.789133	0.829413
0.005669	0.489723	101.876085	
0.14084	4.973130	70.789133	0.829413
0.005669	0.145139	85.585068	
0.28167	4.973130	70.789133	0.829413
0.005669	0.431699	74.133312	
0.42251	4.973130	70.789133	0.829413
0.005669	1.124668	74.276584	
0.56335	4.973130	70.789133	0.829413
0.005669	1.817868	82.520139	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.211344	-32.770360	-1.655590
-0.003902	-0.969504	-25.783911	
0.14084	-7.211344	-32.770360	-1.655590
-0.003902	-0.275720	-22.128677	
0.28167	-7.211344	-32.770360	-1.655590
-0.003902	-0.213567	-23.965438	
0.42251	-7.211344	-32.770360	-1.655590
-0.003902	-0.560110	-31.336545	
0.56335	-7.211344	-32.770360	-1.655590
-0.003902	-0.908448	-53.574047	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.855314	60.141109	1.203748
0.003901	0.702105	84.356742	
0.14084	6.855314	60.141109	1.203748
0.003901	0.198824	87.106088	
0.28167	6.855314	60.141109	1.203748
0.003901	0.551038	94.263277	
0.42251	6.855314	60.141109	1.203748
0.003901	1.436981	109.273005	
0.56335	6.855314	60.141109	1.203748
0.003901	2.322880	129.430143	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.402897	-57.820037	-2.115159
-0.003304	-1.228952	-23.606401	
0.14084	-7.402897	-57.820037	-2.115159
-0.003304	-0.342812	-24.375691	
0.28167	-7.402897	-57.820037	-2.115159
-0.003304	-0.311065	-29.659109	
0.42251	-7.402897	-57.820037	-2.115159
-0.003304	-0.615554	-40.027982	
0.56335	-7.402897	-57.820037	-2.115159
-0.003304	-1.320760	-59.679719	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.677719	20.889913	0.867809
1.80E-05	0.502113	3.108388	
0.14084	2.677719	20.889913	0.867809
1.80E-05	0.137505	4.070107	
0.28167	2.677719	20.889913	0.867809
1.80E-05	0.313418	5.272823	
0.42251	2.677719	20.889913	0.867809
1.80E-05	0.820822	10.559644	
0.56335	2.677719	20.889913	0.867809
1.80E-05	1.328232	18.006307	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.554420	-19.024419	-1.210967
-0.001785	-0.700829	-29.250043	
0.14084	-3.554420	-19.024419	-1.210967
-0.001785	-0.193564	-32.954464	
0.28167	-3.554420	-19.024419	-1.210967
-0.001785	-0.224760	-38.210841	
0.42251	-3.554420	-19.024419	-1.210967
-0.001785	-0.589547	-45.534473	
0.56335	-3.554420	-19.024419	-1.210967
-0.001785	-0.953441	-53.706810	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.563952	92.948333	1.226059
0.005819	0.726334	112.364509	
0.14084	4.563952	92.948333	1.226059
0.005819	0.216097	86.524032	
0.28167	4.563952	92.948333	1.226059
0.005819	0.476560	70.112193	
0.42251	4.563952	92.948333	1.226059
0.005819	1.247644	69.147170	
0.56335	4.563952	92.948333	1.226059
0.005819	2.020687	80.171610	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.621833	-37.683311	-1.845773
-0.008029	-1.092855	-24.552216	
0.14084	-7.621833	-37.683311	-1.845773
-0.008029	-0.320066	-28.408203	
0.28167	-7.621833	-37.683311	-1.845773
-0.008029	-0.315309	-35.770425	
0.42251	-7.621833	-37.683311	-1.845773
-0.008029	-0.828792	-46.636440	
0.56335	-7.621833	-37.683311	-1.845773
-0.008029	-1.342919	-80.240750	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.735731	88.545545	1.267029
0.004987	0.744927	105.959138	
0.14084	4.735731	88.545545	1.267029
0.004987	0.216606	87.954354	
0.28167	4.735731	88.545545	1.267029
0.004987	0.559136	80.114705	
0.42251	4.735731	88.545545	1.267029
0.004987	1.461461	84.704641	
0.56335	4.735731	88.545545	1.267029
0.004987	2.365207	98.134012	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.016385	-41.410291	-2.157784
-0.006119	-1.264665	-23.186831	
0.14084	-9.016385	-41.410291	-2.157784
-0.006119	-0.360925	-27.034690	
0.28167	-9.016385	-41.410291	-2.157784
-0.006119	-0.325905	-38.666294	
0.42251	-9.016385	-41.410291	-2.157784
-0.006119	-0.856489	-54.880937	
0.56335	-9.016385	-41.410291	-2.157784
-0.006119	-1.388402	-87.483445	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.800114	76.122876	1.325370
0.004896	0.776403	89.776810	
0.14084	5.800114	76.122876	1.325370
0.004896	0.223238	77.232405	
0.28167	5.800114	76.122876	1.325370
0.004896	0.588807	73.759235	
0.42251	5.800114	76.122876	1.325370
0.004896	1.537448	80.890883	
0.56335	5.800114	76.122876	1.325370
0.004896	2.486852	95.500094	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.075806	-45.827860	-2.266762
-0.005084	-1.323827	-36.060474	
0.14084	-9.075806	-45.827860	-2.266762
-0.005084	-0.374014	-36.753734	
0.28167	-9.075806	-45.827860	-2.266762
-0.005084	-0.341900	-44.346671	
0.42251	-9.075806	-45.827860	-2.266762
-0.005084	-0.897229	-56.312541	
0.56335	-9.075806	-45.827860	-2.266762
-0.005084	-1.453492	-82.256815	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.832632	99.617355	0.919796
0.005881	0.531997	117.688154	
0.14084	7.832632	99.617355	0.919796
0.005881	0.151023	103.811003	
0.28167	7.832632	99.617355	0.919796
0.005881	0.361112	106.224701	
0.42251	7.832632	99.617355	0.919796
0.005881	0.940229	121.443832	
0.56335	7.832632	99.617355	0.919796
0.005881	1.519820	142.929086	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.837838	-59.392207	-1.384036
-0.008181	-0.812376	-44.137606	
0.14084	-9.837838	-59.392207	-1.384036
-0.008181	-0.232124	-36.747292	
0.28167	-9.837838	-59.392207	-1.384036
-0.008181	-0.239226	-43.481795	
0.42251	-9.837838	-59.392207	-1.384036
-0.008181	-0.625026	-57.458251	
0.56335	-9.837838	-59.392207	-1.384036
-0.008181	-1.010696	-90.934191	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.809434	92.948333	1.325370
0.005819	0.776403	112.364509	
0.14084	7.809434	92.948333	1.325370
0.005819	0.223238	96.861970	
0.28167	7.809434	92.948333	1.325370
0.005819	0.588807	100.329747	
0.42251	7.809434	92.948333	1.325370
0.005819	1.537448	113.304101	
0.56335	7.809434	92.948333	1.325370
0.005819	2.486852	132.568404	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.075806	-57.820037	-2.266762
-0.008029	-1.323827	-39.620766	
0.14084	-9.075806	-57.820037	-2.266762
-0.008029	-0.374014	-36.753734	
0.28167	-9.075806	-57.820037	-2.266762
-0.008029	-0.341900	-44.346671	
0.42251	-9.075806	-57.820037	-2.266762
-0.008029	-0.897229	-56.312541	
0.56335	-9.075806	-57.820037	-2.266762
-0.008029	-1.453492	-87.483445	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.832632	99.617355	1.325370
0.005881	0.776403	117.688154	
0.14084	7.832632	99.617355	1.325370
0.005881	0.223238	103.811003	
0.28167	7.832632	99.617355	1.325370
0.005881	0.588807	106.224701	
0.42251	7.832632	99.617355	1.325370
0.005881	1.537448	121.410032	
0.56335	7.832632	99.617355	1.325370
0.005881	2.486852	142.929086	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.837838	-59.392207	-2.266762
-0.008181	-1.323827	-44.137606	
0.14084	-9.837838	-59.392207	-2.266762
-0.008181	-0.374014	-36.753734	
0.28167	-9.837838	-59.392207	-2.266762
-0.008181	-0.341900	-44.346671	
0.42251	-9.837838	-59.392207	-2.266762
-0.008181	-0.897229	-57.458251	
0.56335	-9.837838	-59.392207	-2.266762
-0.008181	-1.453492	-90.934191	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.832632	99.617355	1.325370
0.005881	0.776403	117.688154	
0.14084	7.832632	99.617355	1.325370
0.005881	0.223238	103.811003	
0.28167	7.832632	99.617355	1.325370
0.005881	0.588807	106.224701	
0.42251	7.832632	99.617355	1.325370
0.005881	1.537448	121.410032	
0.56335	7.832632	99.617355	1.325370
0.005881	2.486852	142.929086	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.837838	-59.392207	-2.266762
-0.008181	-1.323827	-44.137606	
0.14084	-9.837838	-59.392207	-2.266762
-0.008181	-0.374014	-36.753734	
0.28167	-9.837838	-59.392207	-2.266762
-0.008181	-0.341900	-44.346671	
0.42251	-9.837838	-59.392207	-2.266762
-0.008181	-0.897229	-57.458251	
0.56335	-9.837838	-59.392207	-2.266762
-0.008181	-1.453492	-90.934191	

ELEM 272 ========== LENGTH = 2.977533

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	1.829085	11.761721	0.354887
0.001167	0.394020	1.807775	
0.57745	1.829085	11.761721	0.354887
0.001167	0.245187	1.557449	
0.71830	1.829085	11.761721	0.354887
0.001167	0.096338	1.363755	
0.85915	1.829085	11.761721	0.354887
0.001167	0.054070	1.193620	
1.00000	1.829085	11.761721	0.354887
0.001167	0.208536	1.098038	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-1.362166	-0.490092	-0.368281
-1.08E-05	-0.409268	-22.019697	
0.57745	-1.362166	-0.490092	-0.368281
-1.08E-05	-0.254822	-25.566040	
0.71830	-1.362166	-0.490092	-0.368281
-1.08E-05	-0.100389	-29.262756	
0.85915	-1.362166	-0.490092	-0.368281
-1.08E-05	-0.052413	-33.271291	
1.00000	-1.362166	-0.490092	-0.368281
-1.08E-05	-0.201312	-37.434606	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	2.527672	33.487101	0.577111
0.002152	0.641267	26.919425	
0.57745	2.527672	33.487101	0.577111
0.002152	0.399236	19.459513	
0.71830	2.527672	33.487101	0.577111
0.002152	0.157183	13.136202	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85915	2.527672	33.487101	0.577111
0.002152	0.096419	7.656496	
1.00000	2.527672	33.487101	0.577111
0.002152	0.378446	6.222989	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-6.939471	-2.468024	-0.672513
-0.000223	-0.749714	-31.963093	
0.57745	-6.939471	-2.468024	-0.672513
-0.000223	-0.467809	-37.197828	
0.71830	-6.939471	-2.468024	-0.672513
-0.000223	-0.186248	-43.296835	
0.85915	-6.939471	-2.468024	-0.672513
-0.000223	-0.085005	-50.483882	
1.00000	-6.939471	-2.468024	-0.672513
-0.000223	-0.326835	-59.829540	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	2.294636	88.216583	0.596002
0.001740	0.662998	170.052151	
0.57745	2.294636	88.216583	0.596002
0.001740	0.413045	139.161035	
0.71830	2.294636	88.216583	0.596002
0.001740	0.163007	108.480998	
0.85915	2.294636	88.216583	0.596002
0.001740	0.131633	78.271981	
1.00000	2.294636	88.216583	0.596002
0.001740	0.521062	50.732908	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-10.632037	-1.766373	-0.928320
-6.64E-06	-1.036225	-25.713009	
0.57745	-10.632037	-1.766373	-0.928320
-6.64E-06	-0.646907	-30.936271	
0.71830	-10.632037	-1.766373	-0.928320
-6.64E-06	-0.257627	-36.396177	
0.85915	-10.632037	-1.766373	-0.928320
-6.64E-06	-0.086541	-42.391880	
1.00000	-10.632037	-1.766373	-0.928320
-6.64E-06	-0.336816	-49.467552	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43660	9.143534	76.800883	0.755025
0.004889	0.840329	159.821142	
0.57745	9.143534	76.800883	0.755025
0.004889	0.523702	134.544766	
0.71830	9.143534	76.800883	0.755025
0.004889	0.206985	116.839583	
0.85915	9.143534	76.800883	0.755025
0.004889	0.165402	113.308718	
1.00000	9.143534	76.800883	0.755025
0.004889	0.607725	119.413962	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43660	-9.337542	-83.799526	-1.056182

```
-0.004172   -1.164055   -83.105909
0.57745     -9.337542   -83.799526     -1.056182
-0.004172   -0.723676   -57.450087
0.71830     -9.337542   -83.799526     -1.056182
-0.004172   -0.290442   -43.958740
0.85915     -9.337542   -83.799526     -1.056182
-0.004172   -0.116301   -35.704099
1.00000     -9.337542   -83.799526     -1.056182
-0.004172   -0.426254   -41.622857

COMB DB-G2-1 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     0.481023   37.043086    0.207103
0.000729    0.230740   65.685741
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               2931

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P           V2          V3
              T          M2          M3
0.57745     0.481023   37.043086    0.207103
0.000729    0.143884   50.695022
0.71830     0.481023   37.043086    0.207103
0.000729    0.056995   36.185035
0.85915     0.481023   37.043086    0.207103
0.000729    0.049665   22.420571
1.00000     0.481023   37.043086    0.207103
0.000729    0.201647   13.408556

COMB DB-G2-1 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -6.916650   -0.980793   -0.362282
-8.84E-05   -0.406088   -8.664641
0.57745    -6.916650   -0.980793   -0.362282
-8.84E-05   -0.254158   -9.470242
0.71830    -6.916650   -0.980793   -0.362282
-8.84E-05   -0.102240   -10.303325
0.85915    -6.916650   -0.980793   -0.362282
-8.84E-05   -0.029740   -11.708915
1.00000    -6.916650   -0.980793   -0.362282
-8.84E-05   -0.116651   -14.257646

COMB DB-G2-2 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     4.845333   87.351093    0.331626
0.005265    0.369878   204.976165
0.57745     4.845333   87.351093    0.331626
0.005265    0.233923   171.103740
0.71830     4.845333   87.351093    0.331626
0.005265    0.091639   147.603540
0.85915     4.845333   87.351093    0.331626
0.005265    0.123484   138.709902
1.00000     4.845333   87.351093    0.331626
0.005265    0.430843   132.855270

COMB DB-G2-2 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -9.640315   -59.830899   -0.735072
-0.004930   -0.436168   -24.368268
0.57745    -9.640315   -59.830899   -0.735072
-0.004930   -0.497501   -7.274088
0.71830    -9.640315   -59.830899   -0.735072
-0.004930   -0.201726   -6.559329
0.85915    -9.640315   -59.830899   -0.735072
-0.004930   -0.056664   -8.071998
1.00000    -9.640315   -59.830899   -0.735072
-0.004930   -0.186439   -10.566285

COMB DB-G2-3 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     5.502021   89.884910    0.568212
0.005640    0.632514   183.386627
0.57745     5.502021   89.884910    0.568212
0.005640    0.394205   153.445976
0.71830     5.502021   89.884910    0.568212
0.005640    0.155785   132.832720
0.85915     5.502021   89.884910    0.568212
0.005640    0.102026   125.359398
1.00000     5.502021   89.884910    0.568212
0.005640    0.552612   120.176223

COMB DB-G2-3 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -11.196842   -54.120920   -0.954778
-0.004455   -1.049064   -35.081278
0.57745    -11.196842   -54.120920   -0.954778
-0.004455   -0.651822   -23.413944
0.71830    -11.196842   -54.120920   -0.954778
-0.004455   -0.262707   -26.181050
0.85915    -11.196842   -54.120920   -0.954778
-0.004455   -0.090730   -32.065151
1.00000    -11.196842   -54.120920   -0.954778
-0.004455   -0.320707   -38.220796
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               2932

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660    10.303100   74.952540    0.804524
0.003944    0.898576   156.732305
0.57745    10.303100   74.952540    0.804524
0.003944    0.558494   131.562104
0.71830    10.303100   74.952540    0.804524
0.003944    0.220981   112.539845
0.85915    10.303100   74.952540    0.804524
0.003944    0.167233   102.208570
1.00000    10.303100   74.952540    0.804524
0.003944    0.625661   104.096281

COMB DB-G2-4 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660   -10.097857   -94.633459   -1.094263
-0.003878   -1.210001   -109.666517
0.57745   -10.097857   -94.633459   -1.094263
-0.003878   -0.753167   -78.202197
0.71830   -10.097857   -94.633459   -1.094263
-0.003878   -0.301677   -56.559543
0.85915   -10.097857   -94.633459   -1.094263
-0.003878   -0.121754   -36.388477
1.00000   -10.097857   -94.633459   -1.094263
-0.003878   -0.453725   -32.534422

COMB DB-G3-1 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     8.656818    2.167737    0.569226
7.43E-06    0.634263    5.790883
0.57745     8.656818    2.167737    0.569226
7.43E-06    0.395539    4.978170
0.71830     8.656818    2.167737    0.569226
7.43E-06    0.156791    4.174559
0.85915     8.656818    2.167737    0.569226
7.43E-06    0.077763    3.408521
1.00000     8.656818    2.167737    0.569226
7.43E-06    0.304598    2.643649

COMB DB-G3-1 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -1.323181   -69.036845   -0.540663
-0.001434   -0.602384   -135.997523
0.57745    -1.323181   -69.036845   -0.540663
-0.001434   -0.375643   -107.090030
0.71830    -1.323181   -69.036845   -0.540663
-0.001434   -0.148891   -78.205626
0.85915    -1.323181   -69.036845   -0.540663
-0.001434   -0.081884   -49.324345
1.00000    -1.323181   -69.036845   -0.540663
-0.001434   -0.320633   -20.508803

COMB DB-G3-2 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660    15.882208   28.072817    0.792682
0.005758    0.883416   82.898408
0.57745    15.882208   28.072817    0.792682
0.005758    0.550979   74.026079
0.71830    15.882208   28.072817    0.792682
0.005758    0.218459   77.561193
0.85915    15.882208   28.072817    0.792682
0.005758    0.150974   98.374316
1.00000    15.882208   28.072817    0.792682
0.005758    0.517403   119.294413

COMB DB-G3-2 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -2.640947   -156.009711   -0.876397
-0.007693   -0.952792   -176.799319
0.57745    -2.640947   -156.009711   -0.876397
-0.007693   -0.589527   -119.313553
0.71830    -2.640947   -156.009711   -0.876397
-0.007693   -0.237175   -81.770024
0.85915    -2.640947   -156.009711   -0.876397
-0.007693   -0.125253   -46.420225
1.00000    -2.640947   -156.009711   -0.876397
-0.007693   -0.446334   -11.184728
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               2933

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660    13.190857   72.002253    0.797965
0.004195    0.889593   176.658197
0.57745    13.190857   72.002253    0.797965
0.004195    0.554931   148.651408
0.71830    13.190857   72.002253    0.797965
0.004195    0.220167   129.136128
0.85915    13.190857   72.002253    0.797965
0.004195    0.173382   121.589919
1.00000    13.190857   72.002253    0.797965
0.004195    0.633331   114.820705

COMB DB-G3-3 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -8.035540   -127.759437   -1.098299
-0.005593   -1.209102   -156.161247
0.57745    -8.035540   -127.759437   -1.098299
-0.005593   -0.751430   -108.538959
0.71830    -8.035540   -127.759437   -1.098299
-0.005593   -0.301261   -74.603067
0.85915    -8.035540   -127.759437   -1.098299
-0.005593   -0.122130   -42.192671
1.00000    -8.035540   -127.759437   -1.098299
-0.005593   -0.449039   -9.947524

COMB DB-G3-4 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660    11.667043   73.065924    0.874487
0.004175    0.974159   154.404453
0.57745    11.667043   73.065924    0.874487
0.004175    0.607431   128.097997
0.71830    11.667043   73.065924    0.874487
0.004175    0.240583   109.895576
0.85915    11.667043   73.065924    0.874487
0.004175    0.178794   101.660655
1.00000    11.667043   73.065924    0.874487
0.004175    0.666016   95.865987

COMB DB-G3-4 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660   -10.319518   -106.257689   -1.163049
-0.004636   -1.285056   -139.270592
0.57745   -10.319518   -106.257689   -1.163049
-0.004636   -0.799723   -102.667014
0.71830   -10.319518   -106.257689   -1.163049
-0.004636   -0.320604   -77.557195
0.85915   -10.319518   -106.257689   -1.163049
-0.004636   -0.132402   -54.058624
1.00000   -10.319518   -106.257689   -1.163049
-0.004636   -0.492823   -31.430247

COMB DL-G1-1 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     1.841905   12.072774    0.457875
0.001201    0.508542   2.278048
0.57745     1.841905   12.072774    0.457875
0.001201    0.316544   2.059320
0.71830     1.841905   12.072774    0.457875
0.001201    0.124559   1.952680
0.85915     1.841905   12.072774    0.457875
0.001201    0.095476   1.893918
1.00000     1.841905   12.072774    0.457875
0.001201    0.367138   1.933944

COMB DL-G1-1 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -1.687654   -0.483383   -0.646929
-7.94E-06   -0.717977   -22.464053
0.57745    -1.687654   -0.483383   -0.646929
-7.94E-06   -0.446896   -26.751110
0.71830    -1.687654   -0.483383   -0.646929
-7.94E-06   -0.175212   -31.061121
0.85915    -1.687654   -0.483383   -0.646929
-7.94E-06   -0.067475   -35.502943
1.00000    -1.687654   -0.483383   -0.646929
-7.94E-06   -0.259474   -40.030062
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               2934

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     2.486810   33.267364    0.751099
0.002058    0.834666   26.179467
0.57745     2.486810   33.267364    0.751099
0.002058    0.519705   19.087841
0.71830     2.486810   33.267364    0.751099
0.002058    0.204851   12.794653
0.85915     2.486810   33.267364    0.751099
0.002058    0.157274   7.556328
1.00000     2.486810   33.267364    0.751099
0.002058    0.620012   5.786643

COMB DL-G1-2 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -6.582586   -1.705442   -1.102877
-0.000143   -1.230088   -29.653329
0.57745    -6.582586   -1.705442   -1.102877
-0.000143   -0.767603   -35.193407
0.71830    -6.582586   -1.705442   -1.102877
-0.000143   -0.304879   -42.555507
0.85915    -6.582586   -1.705442   -1.102877
-0.000143   -0.110984   -50.759878
1.00000    -6.582586   -1.705442   -1.102877
-0.000143   -0.425340   -60.543537

COMB DL-G1-3 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     2.463079   79.352405    0.826743
0.001730    0.919751   160.524863
0.57745     2.463079   79.352405    0.826743
0.001730    0.572632   133.720284
0.71830     2.463079   79.352405    0.826743
0.001730    0.226007   107.310045
0.85915     2.463079   79.352405    0.826743
0.001730    0.195846   81.481901
1.00000     2.463079   79.352405    0.826743
0.001730    0.779357   58.237585

COMB DL-G1-3 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -9.640561   -2.309338   -1.391519
-1.40E-05   -1.553341   -25.295527
0.57745    -9.640561   -2.309338   -1.391519
-1.40E-05   -0.969781   -30.476739
0.71830    -9.640561   -2.309338   -1.391519
-1.40E-05   -0.386130   -36.682151
0.85915    -9.640561   -2.309338   -1.391519
-1.40E-05   -0.119771   -43.609431
1.00000    -9.640561   -2.309338   -1.391519
-1.40E-05   -0.466061   -51.549686

COMB DL-G1-4 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     8.016920   69.035174    1.057439
0.004084    1.175909   153.299270
0.57745     8.016920   69.035174    1.057439
0.004084    0.732909   131.837394
0.71830     8.016920   69.035174    1.057439
0.004084    0.289919   117.062211
0.85915     8.016920   69.035174    1.057439
0.004084    0.250806   112.567937
1.00000     8.016920   69.035174    1.057439
0.004084    0.951475   118.173554

COMB DL-G1-4 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -8.510073   -70.631630   -1.673117
-0.003356   -1.854332   -74.510592
0.57745    -8.510073   -70.631630   -1.673117
-0.003356   -1.155933   -51.717665
0.71830    -8.510073   -70.631630   -1.673117
-0.003356   -0.460504   -41.583647
0.85915    -8.510073   -70.631630   -1.673117
-0.003356   -0.162950   -36.788847
1.00000    -8.510073   -70.631630   -1.673117
-0.003356   -0.599644   -43.431744
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               2935

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     0.588498   32.183004    0.283446
0.000638    0.315483   58.987260
0.57745     0.588498   32.183004    0.283446
0.000638    0.196758   46.161945
0.71830     0.588498   32.183004    0.283446
0.000638    0.077982   33.857871
0.85915     0.588498   32.183004    0.283446
0.000638    0.042518   32.221654
1.00000     0.588498   32.183004    0.283446
0.000638    0.272358   12.917863

COMB DL-G2-1 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -5.961333   -0.640419   -0.493057
-7.84E-05   -0.554388   -6.881857
0.57745    -5.961333   -0.640419   -0.493057
-7.84E-05   -0.347573   -7.270862
0.71830    -5.961333   -0.640419   -0.493057
-7.84E-05   -0.140799   -7.522154
0.85915    -5.961333   -0.640419   -0.493057
-7.84E-05   -0.041289   -10.395528
1.00000    -5.961333   -0.640419   -0.493057
-7.84E-05   -0.159568   -13.170498

COMB DL-G2-2 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     4.369976   75.829897    0.494768
0.004527    0.549491   192.477752
0.57745     4.369976   75.829897    0.494768
0.004527    0.342855   163.681774
0.71830     4.369976   75.829897    0.494768
0.004527    0.135876   144.193274
0.85915     4.369976   75.829897    0.494768
0.004527    0.154883   136.601709
1.00000     4.369976   75.829897    0.494768
0.004527    0.564606   131.339093

COMB DL-G2-2 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -8.305267   -50.890208   -0.980387
-0.004274   -1.079753   -23.615133
0.57745    -8.305267   -50.890208   -0.980387
-0.004274   -0.673478   -5.252093
0.71830    -8.305267   -50.890208   -0.980387
-0.004274   -0.271898   -4.963662
0.85915    -8.305267   -50.890208   -0.980387
-0.004274   -0.086492   -6.827720
1.00000    -8.305267   -50.890208   -0.980387
-0.004274   -0.283178   -9.406597

COMB DL-G2-3 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     5.044013   79.773383    0.792839
0.004992    0.880545   172.272851
0.57745     5.044013   79.773383    0.792839
0.004992    0.548867   147.033449
0.71830     5.044013   79.773383    0.792839
0.004992    0.216833   130.120917
0.85915     5.044013   79.773383    0.792839
0.004992    0.210992   123.924490
1.00000     5.044013   79.773383    0.792839
0.004992    0.788744   119.301736

COMB DL-G2-3 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -9.972533   -46.140910   -1.381027
-0.003868   -1.527542   -33.267130
0.57745    -9.972533   -46.140910   -1.381027
-0.003868   -0.952651   -21.372360
0.71830    -9.972533   -46.140910   -1.381027
-0.003868   -0.382011   -25.644063
0.85915    -9.972533   -46.140910   -1.381027
-0.003868   -0.128938   -31.742195
1.00000    -9.972533   -46.140910   -1.381027
-0.003868   -0.451758   -38.434779
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               2936

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     9.006124   66.462573    1.140881
0.003308    1.269390   146.848689
0.57745     9.006124   66.462573    1.140881
0.003308    0.791397   125.656563
0.71830     9.006124   66.462573    1.140881
0.003308    0.312695   109.688830
0.85915     9.006124   66.462573    1.140881
0.003308    0.258442   100.901631
1.00000     9.006124   66.462573    1.140881
0.003308    0.992987   103.443682

COMB DL-G2-4 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -9.006764   -81.270678   -1.753822
-0.003267   -1.947254   -96.119742
0.57745    -9.006764   -81.270678   -1.753822
-0.003267   -1.214415   -68.045389
0.71830    -9.006764   -81.270678   -1.753822
-0.003267   -0.484381   -49.999445
0.85915    -9.006764   -81.270678   -1.753822
-0.003267   -0.172401   -33.815253
1.00000    -9.006764   -81.270678   -1.753822
-0.003267   -0.645540   -32.884286

COMB DL-G3-1 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660     7.410038    2.037984    0.817350
4.37E-06    0.910958    5.773335
0.57745     7.410038    2.037984    0.817350
4.37E-06    0.567906    5.058080
0.71830     7.410038    2.037984    0.817350
4.37E-06    0.224554    4.342490
0.85915     7.410038    2.037984    0.817350
4.37E-06    0.146257    3.679665
1.00000     7.410038    2.037984    0.817350
4.37E-06    0.572496    2.988761

COMB DL-G3-1 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -1.177250   -60.947528   -1.016984
-0.001413   -1.131964   -125.559613
0.57745    -1.177250   -60.947528   -1.016984
-0.001413   -0.705562   -100.119942
0.71830    -1.177250   -60.947528   -1.016984
-0.001413   -0.279317   -74.711053
0.85915    -1.177250   -60.947528   -1.016984
-0.001413   -0.116699   -49.302085
1.00000    -1.177250   -60.947528   -1.016984
-0.001413   -0.460331   -23.903633

COMB DL-G3-2 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660    14.076159   23.895241    1.135332
0.005727    1.263220   80.094998
0.57745    14.076159   23.895241    1.135332
0.005727    0.788134   73.541524
0.71830    14.076159   23.895241    1.135332
0.005727    0.311751   79.696843
0.85915    14.076159   23.895241    1.135332
0.005727    0.251561   101.822518
1.00000    14.076159   23.895241    1.135332
0.005727    0.899671   124.003800

COMB DL-G3-2 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -2.293530   -142.803518   -1.549842
-0.007671   -1.700190   -165.287184
0.57745    -2.293530   -142.803518   -1.549842
-0.007671   -1.057169   -108.339688
0.71830    -2.293530   -142.803518   -1.549842
-0.007671   -0.420679   -75.976457
0.85915    -2.293530   -142.803518   -1.549842
-0.007671   -0.184731   -45.613393
1.00000    -2.293530   -142.803518   -1.549842
-0.007671   -0.647619   -15.997015
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               2937

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660    11.893732   59.690601    1.174808
0.004349    1.307300   161.160350
0.57745    11.893732   59.690601    1.174808
0.004349    0.815683   138.845207
0.71830    11.893732   59.690601    1.174808
0.004349    0.322831   125.938324
0.85915    11.893732   59.690601    1.174808
0.004349    0.270417   124.548405
1.00000    11.893732   59.690601    1.174808
0.004349    1.008501   123.502695

COMB DL-G3-3 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -6.868591   -117.982686   -1.763967
-0.005801   -1.949209   -145.676213
0.57745    -6.868591   -117.982686   -1.763967
-0.005801   -1.214568   -98.685861
0.71830    -6.868591   -117.982686   -1.763967
-0.005801   -0.484757   -69.414443
0.85915    -6.868591   -117.982686   -1.763967
-0.005801   -0.183605   -41.817396
1.00000    -6.868591   -117.982686   -1.763967
-0.005801   -0.666351   -14.345048

COMB DL-G3-4 ---------- MAX

REL DIST         P           V2          V3
              T          M2          M3
0.43660    10.620577   62.943449    1.251953
0.004317    1.392716   140.671490
0.57745    10.620577   62.943449    1.251953
0.004317    0.868588   119.371380
0.71830    10.620577   62.943449    1.251953
0.004317    0.343470   106.967738
0.85915    10.620577   62.943449    1.251953
0.004317    0.288048   104.487283
1.00000    10.620577   62.943449    1.251953
0.004317    1.064165   103.375903

COMB DL-G3-4 ---------- MIN

REL DIST         P           V2          V3
              T          M2          M3
0.43660    -9.005142   -98.242979   -1.871380
-0.004820   -2.073652   -128.517605
0.57745    -9.005142   -98.242979   -1.871380
-0.004820   -1.293455   -92.375172
0.71830    -9.005142   -98.242979   -1.871380
-0.004820   -0.516523   -71.777511
0.85915    -9.005142   -98.242979   -1.871380
```

```
-0.004820   -0.193111   -52.872890
 1.00000    -9.005142   -98.242979     -1.871380
-0.004820   -0.709908   -34.486404

COMB       DB ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.43660   15.882208   89.884910    0.874487
 0.005758   0.974159   204.976165
 0.57745   15.882208   89.884910    0.874487
 0.005758   0.607431   171.103740
 0.71830   15.882208   89.884910    0.874487
 0.005758   0.240583   147.603540
 0.85915   15.882208   89.884910    0.874487
 0.005758   0.178794   138.709902
 1.00000   15.882208   89.884910    0.874487
 0.005758   0.666016   132.855270

COMB       DB ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.43660  -11.196842  -156.009711   -1.163049
-0.007693   -1.285056  -176.799319
 0.57745  -11.196842  -156.009711   -1.163049
-0.007693   -0.799723  -119.313553
 0.71830  -11.196842  -156.009711   -1.163049
-0.007693   -0.320604   -81.770024
 0.85915  -11.196842  -156.009711   -1.163049
-0.007693   -0.132402   -54.058624
 1.00000  -11.196842  -156.009711   -1.163049
-0.007693   -0.126523   -54.039540
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    2938

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.43660   14.076159   79.773383    1.251953
 0.005727   1.392716   192.477752
 0.57745   14.076159   79.773383    1.251953
 0.005727   0.868588   163.681774
 0.71830   14.076159   79.773383    1.251953
 0.005727   0.343470   144.193274
 0.85915   14.076159   79.773383    1.251953
 0.005727   0.280848   136.601709
 1.00000   14.076159   79.773383    1.251953
 0.005727   1.064165   131.339093

COMB       DL ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.43660   -9.972533  -142.803518   -1.871380
-0.007671   -2.073852  -165.287184
 0.57745   -9.972533  -142.803518   -1.871380
-0.007671   -1.293455  -108.339688
 0.71830   -9.972533  -142.803518   -1.871380
-0.007671   -0.516523   -75.976457
 0.85915   -9.972533  -142.803518   -1.871380
-0.007671   -0.193111   -52.872890
 1.00000   -9.972533  -142.803518   -1.871380
-0.007671   -0.709908   -60.543537

COMB       CAR ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.43660   15.882208   89.884910    1.251953
 0.005758   1.392716   204.976165
 0.57745   15.882208   89.884910    1.251953
 0.005758   0.868588   171.103740
 0.71830   15.882208   89.884910    1.251953
 0.005758   0.343470   147.603540
 0.85915   15.882208   89.884910    1.251953
 0.005758   0.280848   138.709902
 1.00000   15.882208   89.884910    1.251953
 0.005758   1.064165   132.855270

COMB       CAR ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.43660  -11.196842  -156.009711   -1.871380
-0.007693   -2.073852  -176.799319
 0.57745  -11.196842  -156.009711   -1.871380
-0.007693   -1.293455  -119.313553
 0.71830  -11.196842  -156.009711   -1.871380
-0.007693   -0.516523   -81.770024
 0.85915  -11.196842  -156.009711   -1.871380
-0.007693   -0.193111   -54.058624
 1.00000  -11.196842  -156.009711   -1.871380
-0.007693   -0.709908   -60.543537

COMB       DESIGN ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.43660   15.882208   89.884910    1.251953
 0.005758   1.392716   204.976165
 0.57745   15.882208   89.884910    1.251953
 0.005758   0.868588   171.103740
 0.71830   15.882208   89.884910    1.251953
 0.005758   0.343470   147.603540
 0.85915   15.882208   89.884910    1.251953
 0.005758   0.280848   138.709902
 1.00000   15.882208   89.884910    1.251953
 0.005758   1.064165   132.855270

COMB       DESIGN ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.43660  -11.196842  -156.009711   -1.871380
-0.007693   -2.073852  -176.799319
 0.57745  -11.196842  -156.009711   -1.871380
-0.007693   -1.293455  -119.313553
 0.71830  -11.196842  -156.009711   -1.871380
-0.007693   -0.516523   -81.770024
 0.85915  -11.196842  -156.009711   -1.871380
-0.007693   -0.193111   -54.058624
 1.00000  -11.196842  -156.009711   -1.871380
-0.007693   -0.709908   -60.543537
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    2939

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       273 ================== LENGTH
=     2.976426

COMB DB-G1-1 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    1.829915   11.852903    0.341530
 0.000728   0.189836    1.100185
 0.14081    1.829915   11.852903    0.341530
 0.000728   0.046595    1.171106
 0.28162    1.829915   11.852903    0.341530
 0.000728   0.093962    1.290618
 0.42243    1.829915   11.852903    0.341530
 0.000728   0.226463    1.436986
 0.56323    1.829915   11.852903    0.341530
 0.000728   0.358974    1.602555

COMB DB-G1-1 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -1.351647   -0.411497   -0.316189
-6.99E-06   -0.171094   -37.444263
 0.14081   -1.351647   -0.411497   -0.316189
-6.99E-06   -0.038555   -41.775148
 0.28162   -1.351647   -0.411497   -0.316189
-6.99E-06   -0.096422   -46.238668
 0.42243   -1.351647   -0.411497   -0.316189
-6.99E-06   -0.239575   -50.846515
 0.56323   -1.351647   -0.411497   -0.316189
-6.99E-06   -0.382712   -55.520100

COMB DB-G1-2 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    2.423104   35.055042    0.559278
 0.001505   0.311406    6.231733
 0.14081    2.423104   35.055042    0.559278
 0.001505   0.077474    4.784009
 0.28162    2.423104   35.055042    0.559278
 0.001505   0.176629    3.834360
 0.42243    2.423104   35.055042    0.559278
 0.001505   0.432293    3.432615
 0.56323    2.423104   35.055042    0.559278
 0.001505   0.688238    3.520205

COMB DB-G1-2 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -6.988324   -0.498925   -0.611086
-0.000189   -0.336256   -59.847513
 0.14081   -6.988324   -0.498925   -0.611086
-0.000189   -0.080175   -70.241512
 0.28162   -6.988324   -0.498925   -0.611086
-0.000189   -0.157343   -81.961429
 0.42243   -6.988324   -0.498925   -0.611086
-0.000189   -0.391762   -94.075973
 0.56323   -6.988324   -0.498925   -0.611086
-0.000189   -0.626159  -107.648936

COMB DB-G1-3 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    2.313416   87.611664    0.580601
 0.001651   0.324026   50.705721
 0.14081    2.313416   87.611664    0.580601
 0.001651   0.080542   33.005649
 0.28162    2.313416   87.611664    0.580601
 0.001651   0.247160   27.998671
 0.42243    2.313416   87.611664    0.580601
 0.001651   0.607721   26.294841
 0.56323    2.313416   87.611664    0.580601
 0.001651   0.968373   25.566167

COMB DB-G1-3 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -10.540067   -1.681440   -0.860653
-6.29E-06   -0.474474   -49.479924
 0.14081  -10.540067   -1.681440   -0.860653
-6.29E-06   -0.113896   -56.882916
 0.28162  -10.540067   -1.681440   -0.860653
-6.29E-06   -0.163234   -73.775842
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    2940

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T           M2          M3
 0.42243  -10.540067   -1.681440   -0.860653
-6.29E-06   -0.406436   -108.418697
 0.56323  -10.540067   -1.681440   -0.860653
-6.29E-06   -0.649554   -144.007167

COMB DB-G1-4 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    6.985584   111.032629    0.741171
 0.004891   0.413773   119.587040
 0.14081    6.985584   111.032629    0.741171
 0.004891   0.113860   106.059189
 0.28162    6.985584   111.032629    0.741171
 0.004891   0.285238   102.845847
 0.42243    6.985584   111.032629    0.741171
 0.004891   0.700223   111.417459
 0.56323    6.985584   111.032629    0.741171
 0.004891   1.120598   129.002579

COMB DB-G1-4 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -10.927441   -46.941288   -1.010591
-0.003894   -0.573606   -47.827852
 0.14081  -10.927441   -46.941288   -1.010591
-0.003894   -0.150725   -47.827714
 0.28162  -10.927441   -46.941288   -1.010591
-0.003894   -0.207443   -62.195432
 0.42243  -10.927441   -46.941288   -1.010591
-0.003894   -0.518138   -90.654119
 0.56323  -10.927441   -46.941288   -1.010591
-0.003894   -0.828748   -130.619033

COMB DB-G2-1 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    0.487703   36.785241    0.205350
 0.000661   0.115006   13.395489
 0.14081    0.487703   36.785241    0.205350
 0.000661   0.028911    9.480626
 0.28162    0.487703   36.785241    0.205350
 0.000661   0.099027    8.500337
 0.42243    0.487703   36.785241    0.205350
 0.000661   0.247056    8.266636
 0.56323    0.487703   36.785241    0.205350
 0.000661   0.395106    8.249056

COMB DB-G2-1 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -6.878560   -0.903656   -0.353266
-9.63E-06   -0.197149   -14.261854
 0.14081   -6.878560   -0.903656   -0.353266
-9.63E-06   -0.049129   -20.445664
 0.28162   -6.878560   -0.903656   -0.353266
-9.63E-06   -0.05078    -32.150779
 0.42243   -6.878560   -0.903656   -0.353266
-9.63E-06   -0.143175   -46.255388
 0.56323   -6.878560   -0.903656   -0.353266
-9.63E-06   -0.229239   -61.233969

COMB DB-G2-2 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    1.833838   134.214987    0.331273
 0.005777   0.185743   133.112059
 0.14081    1.833838   134.214987    0.331273
 0.005777   0.061713    92.312364
 0.28162    1.833838   134.214987    0.331273
 0.005777   0.197987    65.137321
 0.42243    1.833838   134.214987    0.331273
 0.005777   0.486375    53.848101
 0.56323    1.833838   134.214987    0.331273
 0.005777   0.782135    54.770831

COMB DB-G2-2 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -11.845324   -8.889796   -0.716053
-0.004884   -0.418304   -10.567326
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    2941

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T           M2          M3
 0.14081  -11.845324   -8.889796   -0.716053
-0.004884   -0.119166   -13.307115
 0.28162  -11.845324   -8.889796   -0.716053
-0.004884   -0.091855   -26.863920
 0.42243  -11.845324   -8.889796   -0.716053
-0.004884   -0.230800   -58.886924
 0.56323  -11.845324   -8.889796   -0.716053
-0.004884   -0.369614  -106.487496

COMB DB-G2-3 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    2.785387   132.265487    0.558509
 0.005809   0.312701   120.497616
 0.14081    2.785387   132.265487    0.558509
 0.005809   0.091216    83.750642
 0.28162    2.785387   132.265487    0.558509
 0.005809   0.254954    59.260178
 0.42243    2.785387   132.265487    0.558509
 0.005809   0.625329    49.091349
 0.56323    2.785387   132.265487    0.558509
 0.005809   1.002363    49.955940

COMB DB-G2-3 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -13.174028   -8.082550   -0.909001
-0.004414   -0.521550   -38.230163
 0.14081  -13.174028   -8.082550   -0.909001
-0.004414   -0.141404   -44.755440
 0.28162  -13.174028   -8.082550   -0.909001
-0.004414   -0.156046   -61.541161
 0.42243  -13.174028   -8.082550   -0.909001
-0.004414   -0.390241   -94.789782
 0.56323  -13.174028   -8.082550   -0.909001
-0.004414   -0.624297  -142.080493

COMB DB-G2-4 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    8.579266   102.625366    0.793156
 0.004065   0.443178   104.220563
 0.14081    8.579266   102.625366    0.793156
 0.004065   0.119455   101.113035
 0.28162    8.579266   102.625366    0.793156
 0.004065   0.295487   108.869930
 0.42243    8.579266   102.625366    0.793156
 0.004065   0.729753   126.720483
 0.56323    8.579266   102.625366    0.793156
 0.004065   1.168427   151.991154

COMB DB-G2-4 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -11.370244   -64.896720   -1.052873
-0.003580   -0.596660   -32.539608
 0.14081  -11.370244   -64.896720   -1.052873
-0.003580   -0.275915   -38.012963
 0.28162  -11.370244   -64.896720   -1.052873
-0.003580   -0.221558   -51.812721
 0.42243  -11.370244   -64.896720   -1.052873
-0.003580   -0.554086   -79.911275
 0.56323  -11.370244   -64.896720   -1.052873
-0.003580   -0.886480  -117.364834

COMB DB-G3-1 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    8.720865    2.220916    0.563898
 1.90E-05   0.315240    2.642135
 0.14081    8.720865    2.220916    0.563898
 1.90E-05   0.078870   10.235327
 0.28162    8.720865    2.220916    0.563898
 1.90E-05   0.149438   38.906002
 0.42243    8.720865    2.220916    0.563898
 1.90E-05   0.373956   67.858338
 0.56323    8.720865    2.220916    0.563898
 1.90E-05   0.598485   96.810793
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    2942

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -1.312647   -69.411806   -0.535746
-0.001263   -0.299660   -20.540786
 0.14081   -1.312647   -69.411806   -0.535746
-0.001263   -0.075045    -7.191325
 0.28162   -1.312647   -69.411806   -0.535746
-0.001263   -0.196211    -5.644234
 0.42243   -1.312647   -69.411806   -0.535746
-0.001263   -0.393765    -5.164525
 0.56323   -1.312647   -69.411806   -0.535746
-0.001263   -0.630098    -5.457849

COMB DB-G3-2 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   12.275049   85.819501    0.785569
 0.006020   0.439028   119.637379
 0.14081   12.275049   85.819501    0.785569
 0.006020   0.127802   110.046023
 0.28162   12.275049   85.819501    0.785569
 0.006020   0.237956   116.375492
 0.42243   12.275049   85.819501    0.785569
 0.006020   0.586871   139.646459
 0.56323   12.275049   85.819501    0.785569
 0.006020   0.944694   177.068251

COMB DB-G3-2 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -5.395242   -94.594241   -0.866194
-0.007336   -0.507452   -11.221362
 0.14081   -5.395242   -94.594241   -0.866194
-0.007336   -0.165379    -5.158142
 0.28162   -5.395242   -94.594241   -0.866194
-0.007336   -0.219374    -4.324433
 0.42243   -5.395242   -94.594241   -0.866194
-0.007336   -0.548689    -8.282526
 0.56323   -5.395242   -94.594241   -0.866194
-0.007336   -0.877926   -33.937350

COMB DB-G3-3 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   10.749401   111.220895    0.793668
 0.004707   0.444215   115.034300
 0.14081   10.749401   111.220895    0.793668
 0.004707   0.123878   103.853162
 0.28162   10.749401   111.220895    0.793668
 0.004707   0.299421   113.533211
 0.42243   10.749401   111.220895    0.793668
 0.004707   0.741678   136.686882
 0.56323   10.749401   111.220895    0.793668
 0.004707   1.190094   170.173931

COMB DB-G3-3 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -9.867529   -85.747580   -1.078593
-0.005281   -0.618109    -9.977239
 0.14081   -9.867529   -85.747580   -1.078593
-0.005281   -0.166775    -5.447460
 0.28162   -9.867529   -85.747580   -1.078593
-0.005281   -0.220959   -15.362542
 0.42243   -9.867529   -85.747580   -1.078593
-0.005281   -0.553700   -41.726876
 0.56323   -9.867529   -85.747580   -1.078593
-0.005281   -0.886342   -80.874770

COMB DB-G3-4 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    9.653090   105.392356    0.864765
 0.004390   0.483480    96.040939
 0.14081    9.653090   105.392356    0.864765
 0.004390   0.131159    86.728039
 0.28162    9.653090   105.392356    0.864765
 0.004390   0.315920    94.912977
 0.42243    9.653090   105.392356    0.864765
 0.004390   0.782349   114.296150
 0.56323    9.653090   105.392356    0.864765
 0.004390   1.253887   142.225191
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    2943

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000  -11.816587   -71.507850   -1.132277
-0.004375   -0.644326   -31.462911
 0.14081  -11.816587   -71.507850   -1.132277
-0.004375   -0.170382   -32.171246
 0.28162  -11.816587   -71.507850   -1.132277
-0.004375   -0.241299   -44.483445
 0.42243  -11.816587   -71.507850   -1.132277
-0.004375   -0.603829    -71.104244
 0.56323  -11.816587   -71.507850   -1.132277
-0.004375   -0.966239   -108.723906

COMB DL-G1-1 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    1.842338   12.146779    0.441420
 0.000728   0.245415    1.934721
 0.14081    1.842338   12.146779    0.441420
 0.000728   0.060434    2.049941
 0.28162    1.842338   12.146779    0.441420
 0.000728   0.168322    2.199941
 0.42243    1.842338   12.146779    0.441420
 0.000728   0.410559    2.363128
 0.56323    1.842338   12.146779    0.441420
 0.000728   0.652357    2.537372

COMB DL-G1-1 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -1.677726   -0.441040   -0.577240
-4.04E-06   -0.315564   -40.040309
 0.14081   -1.677726   -0.441040   -0.577240
-4.04E-06   -0.072363   -44.753697
 0.28162   -1.677726   -0.441040   -0.577240
-4.04E-06   -0.124642   -49.573007
 0.42243   -1.677726   -0.441040   -0.577240
-4.04E-06   -0.309607   -54.427634
 0.56323   -1.677726   -0.441040   -0.577240
-4.04E-06   -0.494587   -59.366926

COMB DL-G1-2 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    2.424395   34.182354    0.726263
 0.001426   0.404329    5.784423
 0.14081    2.424395   34.182354    0.726263
 0.001426   0.100353    4.659822
 0.28162    2.424395   34.182354    0.726263
 0.001426   0.296242    4.056462
 0.42243    2.424395   34.182354    0.726263
 0.001426   0.735085    3.870802
 0.56323    2.424395   34.182354    0.726263
 0.001426   1.173049    3.977350

COMB DL-G1-2 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -6.603317   -0.552982   -1.046027
-0.000113   -0.580637   -60.561238
 0.14081   -6.603317   -0.552982   -1.046027
-0.000113   -0.141518   -71.383922
 0.28162   -6.603317   -0.552982   -1.046027
-0.000113   -0.204822   -83.537197
 0.42243   -6.603317   -0.552982   -1.046027
-0.000113   -0.503023   -96.202471
 0.56323   -6.603317   -0.552982   -1.046027
-0.000113   -0.813371   -110.051067

COMB DL-G1-3 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    2.470304   78.820896    0.807720
 0.001556   0.449544   58.208769
 0.14081    2.470304   78.820896    0.807720
 0.001556   0.111315   40.163429
 0.28162    2.470304   78.820896    0.807720
 0.001556   0.377769   29.590137
 0.42243    2.470304   78.820896    0.807720
 0.001556   0.939986   27.015061
 0.56323    2.470304   78.820896    0.807720
 0.001556   1.502506   26.118473
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    2944

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -9.553307   -2.266362   -1.341860
-8.04E-06   -0.745583   -51.560685
 0.14081   -9.553307   -2.266362   -1.341860
-8.04E-06   -0.182843   -59.864310
 0.28162   -9.553307   -2.266362   -1.341860
-8.04E-06   -0.226172   -75.069285
 0.42243   -9.553307   -2.266362   -1.341860
-8.04E-06   -0.564577   -104.829148
 0.56323   -9.553307   -2.266362   -1.341860
-8.04E-06   -0.903010   -136.308763

COMB DL-G1-4 ------------------ MAX

REL DIST          P           V2          V3
      T           M2          M3
 0.00000    6.423083   94.554606    1.042125
 0.003985   0.587740   118.152391
 0.14081    6.423083   94.554606    1.042125
 0.003985   0.156407   107.100942
 0.28162    6.423083   94.554606    1.042125
 0.003985   0.456467   102.248052
 0.42243    6.423083   94.554606    1.042125
 0.003985   1.133815   110.580846
 0.56323    6.423083   94.554606    1.042125
 0.003985   1.813349   125.622906

COMB DL-G1-4 ------------------ MIN

REL DIST          P           V2          V3
      T           M2          M3
 0.00000   -9.812612   -43.460435   -1.630586
-0.003029   -0.918799   -43.438293
 0.14081   -9.812612   -43.460435   -1.630586
-0.003029   -0.235993   -50.380564
 0.28162   -9.812612   -43.460435   -1.630586
-0.003029   -0.290349   -63.221311
 0.42243   -9.812612   -43.460435   -1.630586
```

```
-0.003029   -0.726714   -87.740387
 0.56323    -9.812612   -43.460435    -1.630586
-0.003029   -1.162820  -123.637697

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    0.590320   32.008162    0.278291
 0.000612   0.155149   12.902912
 0.14081    0.590320   32.008162    0.278291
 0.000612   0.038835    8.346609
 0.28162    0.590320   32.008162    0.278291
 0.000612   0.139512    7.080659
 0.42243    0.590320   32.008162    0.278291
 0.000612   0.354547    6.627806
 0.56323    0.590320   32.008162    0.278291
 0.000612   0.569546    6.486535

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.930117   -0.593134   -0.513050
-5.46E-06   -0.290080   -13.171979
 0.14081   -5.930117   -0.593134   -0.513050
-5.46E-06   -0.075055   -18.132331
 0.28162   -5.930117   -0.593134   -0.513050
-5.46E-06   -0.077894   -28.740880
 0.42243   -5.930117   -0.593134   -0.513050
-5.46E-06   -0.194288   -41.072699
 0.56323   -5.930117   -0.593134   -0.513050
-5.46E-06   -0.310926   -53.960074

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    1.882694  114.775145    0.495065
 0.004936   0.286172  131.334930
 0.14081    1.882694  114.775145    0.495065
 0.004936   0.087263   93.822613
 0.28162    1.882694  114.775145    0.495065
 0.004936   0.270652   65.024021
 0.42243    1.882694  114.775145    0.495065
 0.004936   0.677823   54.537750
 0.56323    1.882694  114.775145    0.495065
 0.004936   1.087913   53.833405
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2945

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.326884   -8.935446   -0.993367
-0.004140   -0.576139   -9.403150
 0.14081  -10.326884   -8.935446   -0.993367
-0.004140   -0.160941   -12.279007
 0.28162  -10.326884   -8.935446   -0.993367
-0.004140   -0.136312   -24.250207
 0.42243  -10.326884   -8.935446   -0.993367
-0.004140   -0.342859   -50.300279
 0.56323  -10.326884   -8.935446   -0.993367
-0.004140   -0.549084   -93.198456

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    2.795173  115.043399    0.780533
 0.005057   0.443839  119.298856
 0.14081    2.795173  115.043399    0.780533
 0.005057   0.124424   85.417428
 0.28162    2.795173  115.043399    0.780533
 0.005057   0.376791   59.579991
 0.42243    2.795173  115.043399    0.780533
 0.005057   0.939366   50.171835
 0.56323    2.795173  115.043399    0.780533
 0.005057   1.504561   49.584344

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.786909   -8.167599   -1.361910
-0.003747   -0.777516   -38.441952
 0.14081  -11.786909   -8.167599   -1.361910
-0.003747   -0.207410   -45.429045
 0.28162  -11.786909   -8.167599   -1.361910
-0.003747   -0.217194   -61.193043
 0.42243  -11.786909   -8.167599   -1.361910
-0.003747   -0.627517   -89.396564
 0.56323  -11.786909   -8.167599   -1.361910
-0.003747   -0.869450  -132.747676

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.703703   87.580969    1.127534
 0.003353   0.634722  103.408795
 0.14081    7.703703   87.580969    1.127534
 0.003353   0.166394  100.950831
 0.28162    7.703703   87.580969    1.127534
 0.003353   0.482800  105.216089
 0.42243    7.703703   87.580969    1.127534
 0.003353   1.204278  121.308636
 0.56323    7.703703   87.580969    1.127534
 0.003353   1.927488  143.104052

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.072299   -58.846726   -1.733933
-0.002880   -0.977004   -32.886237
 0.14081  -10.072299   -58.846726   -1.733933
-0.002880   -0.251147   -38.753541
 0.28162  -10.072299   -58.846726   -1.733933
-0.002880   -0.313649   -51.742069
 0.42243  -10.072299   -58.846726   -1.733933
-0.002880   -0.786195   -75.625379
 0.56323  -10.072299   -58.846726   -1.733933
-0.002880   -1.258067  -109.059577

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.460891    2.042258    0.810697
1.39E-05    0.453248    2.986368
 0.14081    7.460891    2.042258    0.810697
1.39E-05    0.110644    9.193163
 0.28162    7.460891    2.042258    0.810697
1.39E-05    0.284527   32.968723
 0.42243    7.460891    2.042258    0.810697
1.39E-05    0.710439   57.777886
 0.56323    7.460891    2.042258    0.810697
1.39E-05    1.136544   82.990093
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2946

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -1.167021   -61.204473   -1.016914
-0.001201   -0.566588   -23.932076
 0.14081   -1.167021   -61.204473   -1.016914
-0.001201   -0.140698   -7.876434
 0.28162   -1.167021   -61.204473   -1.016914
-0.001201   -0.225527   -5.976239
 0.42243   -1.167021   -61.204473   -1.016914
-0.001201   -0.566084   -5.912949
 0.56323   -1.167021   -61.204473   -1.016914
-0.001201   -0.905946   -6.368009

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.598315   79.810988    1.131559
 0.005926   0.646919  124.036216
 0.14081   10.598315   79.810988    1.131559
 0.005926   0.182261  111.328758
 0.28162   10.598315   79.810988    1.131559
 0.005926   0.426700  112.226120
 0.42243   10.598315   79.810988    1.131559
 0.005926   1.059639  129.624718
 0.56323   10.598315   79.810988    1.131559
 0.005926   1.696530  159.933365

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.244475   -83.699870   -1.540273
-0.007167   -0.884405   -16.028345
 0.14081   -5.244475   -83.699870   -1.540273
-0.007167   -0.240829   -5.996084
 0.28162   -5.244475   -83.699870   -1.540273
-0.007167   -0.313386   -5.124616
 0.42243   -5.244475   -83.699870   -1.540273
-0.007167   -0.787269   -8.726846
 0.56323   -5.244475   -83.699870   -1.540273
-0.007167   -1.260372   -35.770811

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    9.406478   99.739205    1.171141
 0.004749   0.664531  123.502300
 0.14081    9.406478   99.739205    1.171141
 0.004749   0.181506  106.405398
 0.28162    9.406478   99.739205    1.171141
 0.004749   0.489300  106.836159
 0.42243    9.406478   99.739205    1.171141
 0.004749   1.220877  124.365589
 0.56323    9.406478   99.739205    1.171141
 0.004749   1.955308  151.645576

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -8.947518   -75.459063   -1.768207
-0.005352   -1.006382   -14.371163
 0.14081   -8.947518   -75.459063   -1.768207
-0.005352   -0.267062   -6.215766
 0.28162   -8.947518   -75.459063   -1.768207
-0.005352   -0.324251   -14.987427
 0.42243   -8.947518   -75.459063   -1.768207
-0.005352   -0.814707   -34.672068
 0.56323   -8.947518   -75.459063   -1.768207
-0.005352   -1.304413   -71.245738

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.558892   96.097878    1.239623
 0.004446   0.700472  103.374879
 0.14081    8.558892   96.097878    1.239623
 0.004446   0.187457   89.263257
 0.28162    8.558892   96.097878    1.239623
 0.004446   0.517931   89.623337
 0.42243    8.558892   96.097878    1.239623
 0.004446   1.294178  104.285370
 0.56323    8.558892   96.097878    1.239623
 0.004446   2.072279  127.052648
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2947

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -10.711978   -62.951876   -1.870008
-0.004446   -1.060628   -34.515473
 0.14081  -10.711978   -62.951876   -1.870008
-0.004446   -0.276036   -32.553409
 0.28162  -10.711978   -62.951876   -1.870008
-0.004446   -0.344593   -44.554984
 0.42243  -10.711978   -62.951876   -1.870008
-0.004446   -0.868825  -104.556910
 0.56323  -10.711978   -62.951876   -1.870008
-0.004446   -1.382439  -101.824866

COMB     DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.275049  134.214987    0.864765
 0.006020   0.483480  133.112059
 0.14081   12.275049  134.214987    0.864765
 0.006020   0.131159  110.046023
 0.28162   12.275049  134.214987    0.864765
 0.006020   0.315920  116.375492
 0.42243   12.275049  134.214987    0.864765
 0.006020   0.782349  139.646459
 0.56323   12.275049  134.214987    0.864765
 0.006020   1.253887  177.068251

COMB     DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.174028   -94.594241   -1.132277
-0.007336   -0.644326   -59.847513
 0.14081  -13.174028   -94.594241   -1.132277
-0.007336   -0.170382   -70.241512
 0.28162  -13.174028   -94.594241   -1.132277
-0.007336   -0.241299   -81.961429
 0.42243  -13.174028   -94.594241   -1.132277
-0.007336   -0.603829  -108.418697
 0.56323  -13.174028   -94.594241   -1.132277
-0.007336   -0.966239  -144.007167

COMB     DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.598315  115.043399    1.239623
 0.005926   0.700472  131.334930
 0.14081   10.598315  115.043399    1.239623
 0.005926   0.187457  111.328758
 0.28162   10.598315  115.043399    1.239623
 0.005926   0.517931  112.226120
 0.42243   10.598315  115.043399    1.239623
 0.005926   1.294178  129.624718
 0.56323   10.598315  115.043399    1.239623
 0.005926   2.072279  159.933365

COMB     DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.786909   -83.699870   -1.870008
-0.007167   -1.060628   -60.561238
 0.14081  -11.786909   -83.699870   -1.870008
-0.007167   -0.276036   -71.383922
 0.28162  -11.786909   -83.699870   -1.870008
-0.007167   -0.344593   -83.537197
 0.42243  -11.786909   -83.699870   -1.870008
-0.007167   -0.863825  -104.829148
 0.56323  -11.786909   -83.699870   -1.870008
-0.007167   -1.382439  -136.308763

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.275049  134.214987    1.239623
 0.006020   0.700472  133.112059
 0.14081   12.275049  134.214987    1.239623
 0.006020   0.187457  111.328758
 0.28162   12.275049  134.214987    1.239623
 0.006020   0.517931  116.375492
 0.42243   12.275049  134.214987    1.239623
 0.006020   1.294178  139.646459
 0.56323   12.275049  134.214987    1.239623
 0.006020   2.072279  177.068251
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2948

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.174028   -94.594241   -1.870008
-0.007336   -1.060628   -60.561238
 0.14081  -13.174028   -94.594241   -1.870008
-0.007336   -0.278036   -71.383922
 0.28162  -13.174028   -94.594241   -1.870008
-0.007336   -0.344593   -83.537197
 0.42243  -13.174028   -94.594241   -1.870008
-0.007336   -0.863825  -108.418697
 0.56323  -13.174028   -94.594241   -1.870008
-0.007336   -1.382439  -144.007167

COMB   DESIGN ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.275049  134.214987    1.239623
 0.006020   0.700472  133.112059
 0.14081   12.275049  134.214987    1.239623
 0.006020   0.187457  111.328758
 0.28162   12.275049  134.214987    1.239623
 0.006020   0.517931  116.375492
 0.42243   12.275049  134.214987    1.239623
 0.006020   1.294178  139.646459
 0.56323   12.275049  134.214987    1.239623
 0.006020   2.072279  177.068251

COMB   DESIGN ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.174028   -94.594241   -1.870008
-0.007336   -1.060628   -60.561238
 0.14081  -13.174028   -94.594241   -1.870008
-0.007336   -0.278036   -71.383922
 0.28162  -13.174028   -94.594241   -1.870008
-0.007336   -0.344593   -83.537197
 0.42243  -13.174028   -94.594241   -1.870008
-0.007336   -0.863825  -108.418697
 0.56323  -13.174028   -94.594241   -1.870008
-0.007336   -1.382439  -144.007167

ELEM      274 ================== LENGTH
=     2.977811

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43656    0.221979   20.871127    0.370619
 0.000720   0.411095    1.748124
 0.57742    0.221979   20.871127    0.370619
 0.000720   0.255638    1.357211
 0.71828    0.221979   20.871127    0.370619
 0.000720   0.100171    1.733297
 0.85914    0.221979   20.871127    0.370619
 0.000720   0.047150    2.291696
 1.00000    0.221979   20.871127    0.370619
 0.000720   0.178929    3.009358

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43656   -4.390046   -2.328888   -0.313949
-1.36E-05   -0.347820   -16.450576
 0.57742   -4.390046   -2.328888   -0.313949
-1.36E-05   -0.216133   -24.370107
 0.71828   -4.390046   -2.328888   -0.313949
-1.36E-05   -0.084470   -32.385273
 0.85914   -4.390046   -2.328888   -0.313949
-1.36E-05   -0.015584   -40.521204
 1.00000   -4.390046   -2.328888   -0.313949
-1.36E-05   -0.210734   -48.750938

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43656    0.811103   49.292146    0.602548
 0.001469   0.668849   33.892466
 0.57742    0.811103   49.292146    0.602548
 0.001469   0.416109   24.268482
 0.71828    0.811103   49.292146    0.602548
 0.001469   0.163335   16.397106
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2949

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
 0.85914    0.811103   49.292146    0.602548
 0.001469   0.012938    9.909523
 1.00000    0.811103   49.292146    0.602548
 0.001469   0.300210    8.387569

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43656   -8.813639   -5.323737   -0.526960
-0.000326   -0.583970   -19.424112
 0.57742   -8.813639   -5.323737   -0.526960
-0.000326   -0.362936   -29.030429
 0.71828   -8.813639   -5.323737   -0.526960
-0.000326   -0.141569   -40.298804
 0.85914   -8.813639   -5.323737   -0.526960
-0.000326   -0.089623   -54.068233
 1.00000   -8.813639   -5.323737   -0.526960
-0.000326   -0.342088   -69.744403

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43656    0.813705  102.989371    0.622674
 0.001128   0.691822  183.523112
 0.57742    0.813705  102.989371    0.622674
 0.001128   0.430661  150.322261
 0.71828    0.813705  102.989371    0.622674
 0.001128   0.169391  118.234563
 0.85914    0.813705  102.989371    0.622674
 0.001128   0.102154   86.801274
 1.00000    0.813705  102.989371    0.622674
 0.001128   0.393472   58.222979

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43656  -12.050157   -3.220684   -0.694059
-5.90E-05   -0.771032   -15.835881
 0.57742  -12.050157   -3.220684   -0.694059
-5.90E-05   -0.479908   -25.301067
 0.71828  -12.050157   -3.220684   -0.694059
-5.90E-05   -0.188777   -35.513570
 0.85914  -12.050157   -3.220684   -0.694059
-5.90E-05   -0.091552   -47.429089
 1.00000  -12.050157   -3.220684   -0.694059
-5.90E-05   -0.352907   -60.544481

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43656    7.729315   89.179870    0.764032
 0.004480   0.849366  170.746426
 0.57742    7.729315   89.179870    0.764032
 0.004480   0.528883  144.236778
 0.71828    7.729315   89.179870    0.764032
 0.004480   0.208329  126.819740
 0.85914    7.729315   89.179870    0.764032
 0.004480   0.137393  121.163183
 1.00000    7.729315   89.179870    0.764032
 0.004480   0.486931  129.685642

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43656  -10.321490   -89.310346   -0.833901
-0.004007   -0.912956   -78.167139
 0.57742  -10.321490   -89.310346   -0.833901
-0.004007   -0.563174   -54.642738
 0.71828  -10.321490   -89.310346   -0.833901
-0.004007   -0.226223   -43.842641
 0.85914  -10.321490   -89.310346   -0.833901
-0.004007   -0.120077   -40.237357
 1.00000  -10.321490   -89.310346   -0.833901
-0.004007   -0.432553   -51.502998

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43656    0.590242   42.913767    0.216702
 0.000540   0.241142   76.924235
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2950

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
 0.57742    0.590242   42.913767    0.216702
 0.000540   0.150246   59.242548
 0.71828    0.590242   42.913767    0.216702
 0.000540   0.059305   42.192141
 0.85914    0.590242   42.913767    0.216702
 0.000540   0.034921   25.656810
 1.00000    0.590242   42.913767    0.216702
 0.000540   0.136828   13.838737

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43656   -5.349289   -1.022173   -0.242808
-0.000206   -0.270564   -4.152841
 0.57742   -5.349289   -1.022173   -0.242808
-0.000206   -0.168717   -4.115326
 0.71828   -5.349289   -1.022173   -0.242808
-0.000206   -0.066876   -4.885924
 0.85914   -5.349289   -1.022173   -0.242808
-0.000206   -0.031487   -7.746975
 1.00000   -5.349289   -1.022173   -0.242808
-0.000206   -0.122407   -12.116818

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43656    4.733673   92.081572    0.335209
 0.005143   0.373419  220.174776
 0.57742    4.733673   92.081572    0.335209
 0.005143   0.232804  185.096484
 0.71828    4.733673   92.081572    0.335209
 0.005143   0.092125  159.511776
 0.85914    4.733673   92.081572    0.335209
 0.005143   0.094698  148.722467
 1.00000    4.733673   92.081572    0.335209
 0.005143   0.308886  141.145405

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43656   -8.133179   -60.014503   -0.511845
-0.004933   -0.550928   -21.315915
 0.57742   -8.133179   -60.014503   -0.511845
-0.004933   -0.336233   -3.504604
 0.71828   -8.133179   -60.014503   -0.511845
-0.004933   -0.139108   -3.028436
 0.85914   -8.133179   -60.014503   -0.511845
-0.004933   -0.056566   -5.538858
 1.00000   -8.133179   -60.014503   -0.511845
-0.004933   -0.189020   -10.163245

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43656    4.558141  101.068218    0.583602
 0.005195   0.648875  199.991337
 0.57742    4.558141  101.068218    0.583602
 0.005195   0.404075  165.602521
 0.71828    4.558141  101.068218    0.583602
 0.005195   0.159163  143.487336
 0.85914    4.558141  101.068218    0.583602
 0.005195   0.121347  135.018618
 1.00000    4.558141  101.068218    0.583602
 0.005195   0.415026  128.906296

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43656  -11.007493   -55.754246   -0.701221
-0.004446   -0.762426   -24.439809
 0.57742  -11.007493   -55.754246   -0.701221
-0.004446   -0.468296   -16.181570
 0.71828  -11.007493   -55.754246   -0.701221
-0.004446   -0.190040   -23.596746
 0.85914  -11.007493   -55.754246   -0.701221
-0.004446   -0.095494   -33.737006
 1.00000  -11.007493   -55.754246   -0.701221
-0.004446   -0.330309   -44.874391
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                2951

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43656    9.868315   85.544843    0.806229
 0.003663   0.899707  170.517824
 0.57742    9.868315   85.544843    0.806229
 0.003663   0.558525  141.064079
 0.71828    9.868315   85.544843    0.806229
 0.003663   0.220239  120.397541
 0.85914    9.868315   85.544843    0.806229
 0.003663   0.141213  110.006839
 1.00000    9.868315   85.544843    0.806229
 0.003663   0.511090  114.576147

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43656   -9.489416  -103.071201   -0.882374
-0.003572   -0.969979  -109.362357
 0.57742   -9.489416  -103.071201   -0.882374
-0.003572   -0.599861   -77.658360
 0.71828   -9.489416  -103.071201   -0.882374
-0.003572   -0.240158   -56.362938
 0.85914   -9.489416  -103.071201   -0.882374
```

```
-0.003572   -0.124313   -37.093672
 1.00000    -9.489416  -103.071201     -0.882374
-0.003572   -0.456009   -39.094538

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    9.767885    3.814648    0.551401
7.18E-06   0.613606    6.064324
0.57742    9.767885    3.814648    0.551401
7.18E-06   0.382220    5.016944
0.71828    9.767885    3.814648    0.551401
7.18E-06   0.151013    4.279708
0.85914    9.767885    3.814648    0.551401
7.18E-06   0.077260    3.574758
1.00000    9.767885    3.814648    0.551401
7.18E-06   0.300177    2.886397

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -0.429658   -82.656678   -0.531234
-0.000928  -0.591135  -154.122442
0.57742   -0.429658   -82.656678   -0.531234
-0.000928  -0.368308  -119.495887
0.71828   -0.429658   -82.656678   -0.531234
-0.000928  -0.145483   -84.894801
0.85914   -0.429658   -82.656678   -0.531234
-0.000928  -0.080195   -50.310328
1.00000   -0.429658   -82.656678   -0.531234
-0.000928  -0.311540   -15.870835

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    16.392226   28.751811    0.753981
 0.005791   0.839201    84.871369
0.57742    16.392226   28.751811    0.753981
 0.005791   0.522941    77.171803
0.71828    16.392226   28.751811    0.753981
 0.005791   0.206611    80.775647
0.85914    16.392226   28.751811    0.753981
 0.005791   0.140974   102.163349
1.00000    16.392226   28.751811    0.753981
 0.005791   0.474206   123.845948

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -1.738034  -171.916450   -0.795912
-0.007027  -0.862434  -195.207696
0.57742   -1.738034  -171.916450   -0.795912
-0.007027  -0.528590  -131.631634
0.71828   -1.738034  -171.916450   -0.795912
-0.007027  -0.216187   -88.290217
0.85914   -1.738034  -171.916450   -0.795912
-0.007027  -0.123159   -46.893750
1.00000   -1.738034  -171.916450   -0.795912
-0.007027  -0.425839    -5.807985
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2952

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    14.069882   75.823549    0.780202
 0.004129   0.868669   188.501401
0.57742    14.069882   75.823549    0.780202
 0.004129   0.541405   159.814909
0.71828    14.069882   75.823549    0.780202
 0.004129   0.214073   139.061654
0.85914    14.069882   75.823549    0.780202
 0.004129   0.150785   130.411746
1.00000    14.069882   75.823549    0.780202
 0.004129   0.537017   122.089890

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -6.299329  -140.991229   -0.921603
-0.005175  -1.010121  -173.014755
0.57742   -6.299329  -140.991229   -0.921603
-0.005175  -0.623552  -119.836399
0.71828   -6.299329  -140.991229   -0.921603
-0.005175  -0.251661   -80.577885
0.85914   -6.299329  -140.991229   -0.921603
-0.005175  -0.121376   -42.718287
1.00000   -6.299329  -140.991229   -0.921603
-0.005175  -0.440366    -5.289147

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    12.100274   82.099937    0.869284
 0.003898   0.967166   169.160308
0.57742    12.100274   82.099937    0.869284
 0.003898   0.602536   138.691102
0.71828    12.100274   82.099937    0.869284
 0.003898   0.237836   118.655824
0.85914    12.100274   82.099937    0.869284
 0.003898   0.153651   109.393502
1.00000    12.100274   82.099937    0.869284
 0.003898   0.554727   102.452854

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -8.657091  -118.268537   -0.956796
-0.004219  -1.051311  -146.097399
0.57742   -8.657091  -118.268537   -0.956796
-0.004219  -0.649981  -106.314987
0.71828   -8.657091  -118.268537   -0.956796
-0.004219  -0.260783   -78.867250
0.85914   -8.657091  -118.268537   -0.956796
-0.004219  -0.134323   -53.822634
1.00000   -8.657091  -118.268537   -0.956796
-0.004219  -0.491342   -30.001468

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    0.235199    24.082989    0.472481
 0.000663   0.524043    1.844129
0.57742    0.235199    24.082989    0.472481
 0.000663   0.330938    1.547776
0.71828    0.235199    24.082989    0.472481
 0.000663   0.127785    2.113567
0.85914    0.235199    24.082989    0.472481
 0.000663   0.084764    2.850587
1.00000    0.235199    24.082989    0.472481
 0.000663   0.322512    3.719244

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -4.493893   -2.807227   -0.564749
-9.96E-06  -0.625772   -16.870351
0.57742   -4.493893   -2.807227   -0.564749
-9.96E-06  -0.388829   -25.637837
0.71828   -4.493893   -2.807227   -0.564749
-9.96E-06  -0.151334   -35.117037
0.85914   -4.493893   -2.807227   -0.564749
-9.96E-06  -0.070257   -44.733366
1.00000   -4.493893   -2.807227   -0.564749
-9.96E-06  -0.268513   -54.411747
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2953

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    0.762113    54.029922    0.771974
 0.001253   0.855646    35.467306
0.57742    0.762113    54.029922    0.771974
 0.001253   0.531979    25.088053
0.71828    0.762113    54.029922    0.771974
 0.001253   0.208540    16.573908
0.85914    0.762113    54.029922    0.771974
 0.001253   0.132279    9.861673
1.00000    0.762113    54.029922    0.771974
 0.001253   0.511042    8.171130

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -8.586351   -5.096408   -0.900864
-0.000250  -1.001554   -19.397573
0.57742   -8.586351   -5.096408   -0.900864
-0.000250  -0.624028   -29.884641
0.71828   -8.586351   -5.096408   -0.900864
-0.000250  -0.245477   -42.804522
0.85914   -8.586351   -5.096408   -0.900864
-0.000250  -0.116482   -57.914321
1.00000   -8.586351   -5.096408   -0.900864
-0.000250  -0.439691   -75.864050

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    0.882045   101.098658   0.823850
 0.000914   0.913799   182.505057
0.57742    0.882045   101.098658   0.823850
 0.000914   0.568454   151.431890
0.71828    0.882045   101.098658   0.823850
 0.000914   0.223321   121.733562
0.85914    0.882045   101.098658   0.823850
 0.000914   0.153816   93.251676
1.00000    0.882045   101.098658   0.823850
 0.000914   0.600905   68.342220

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -11.192507   -4.571662   -1.064194
-7.68E-05  -1.185086   -16.650726
0.57742   -11.192507   -4.571662   -1.064194
-7.68E-05  -0.739145   -26.469435
0.71828   -11.192507   -4.571662   -1.064194
-7.68E-05  -0.291917   -37.851590
0.85914   -11.192507   -4.571662   -1.064194
-7.68E-05  -0.122348   -50.964166
1.00000   -11.192507   -4.571662   -1.064194
-7.68E-05  -0.466986   -66.182188

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    6.762696   87.995858    1.028655
 0.003621   1.140615   172.841482
0.57742    6.762696   87.995858    1.028655
 0.003621   0.710237   147.576726
0.71828    6.762696   87.995858    1.028655
 0.003621   0.279428   130.368327
0.85914    6.762696   87.995858    1.028655
 0.003621   0.204916   124.796397
1.00000    6.762696   87.995858    1.028655
 0.003621   0.756540   132.942759

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -9.593212   -78.425000   -1.314839
-0.003181  -1.450421   -71.443932
0.57742   -9.593212   -78.425000   -1.314839
-0.003181  -0.900153   -50.428704
0.71828   -9.593212   -78.425000   -1.314839
-0.003181  -0.357660   -43.115226
0.85914   -9.593212   -78.425000   -1.314839
-0.003181  -0.162829   -43.264001
1.00000   -9.593212   -78.425000   -1.314839
-0.003181  -0.589094    -56.334974
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2954

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    0.629239    40.500266    0.282911
 0.000442   0.313253    74.203728
0.57742    0.629239    40.500266    0.282911
 0.000442   0.194724    57.451957
0.71828    0.629239    40.500266    0.282911
 0.000442   0.076604    41.297854
0.85914    0.629239    40.500266    0.282911
 0.000442   0.047460    26.225622
1.00000    0.629239    40.500266    0.282911
 0.000442   0.190442    14.634664

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -4.745151   -0.857230   -0.341471
-0.000201  -0.382527   -4.288333
0.57742   -4.745151   -0.857230   -0.341471
-0.000201  -0.239196   -4.300815
0.71828   -4.745151   -0.857230   -0.341471
-0.000201  -0.096463   -5.211261
0.85914   -4.745151   -0.857230   -0.341471
-0.000201  -0.043662   -7.602992
1.00000   -4.745151   -0.857230   -0.341471
-0.000201  -0.161597   -11.920506

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    4.212336   84.918581    0.463876
 0.004443   0.512191   219.193307
0.57742    4.212336   84.918581    0.463876
 0.004443   0.331142   186.127814
0.71828    4.212336   84.918581    0.463876
 0.004443   0.125940   162.942744
0.85914    4.212336   84.918581    0.463876
 0.004443   0.117107   151.608948
1.00000    4.212336   84.918581    0.463876
 0.004443   0.403201   143.484944

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -7.084443   -51.493635   -0.683885
-0.004272  -0.745513   -22.244504
0.57742   -7.084443   -51.493635   -0.683885
-0.004272  -0.460106   -3.333118
0.71828   -7.084443   -51.493635   -0.683885
-0.004272  -0.188129   -3.062421
0.85914   -7.084443   -51.493635   -0.683885
-0.004272  -0.086431   -5.481485
1.00000   -7.084443   -51.493635   -0.683885
-0.004272  -0.272540   -9.716809

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    4.036811   97.808768    0.776021
 0.004512   0.858629   198.305793
0.57742    4.036811   97.808768    0.776021
 0.004512   0.534634   166.330521
0.71828    4.036811   97.808768    0.776021
 0.004512   0.210346   146.479154
0.85914    4.036811   97.808768    0.776021
 0.004512   0.166533   138.162914
1.00000    4.036811   97.808768    0.776021
 0.004512   0.599298   131.702962

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -10.052824  -48.470851   -1.032464
-0.003851  -1.134428   -25.017835
0.57742   -10.052824  -48.470851   -1.032464
-0.003851  -0.703016   -15.218445
0.71828   -10.052824  -48.470851   -1.032464
-0.003851  -0.282732   -24.180655
0.85914   -10.052824  -48.470851   -1.032464
-0.003851  -0.131322   -35.403001
1.00000   -10.052824  -48.470851   -1.032464
-0.003851  -0.449116   -47.820734
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2955

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    8.767808   83.112699    1.100635
 0.003002   1.221232   168.584226
0.57742    8.767808   83.112699    1.100635
 0.003002   0.760652   141.206739
0.71828    8.767808   83.112699    1.100635
 0.003002   0.299441   122.591679
0.85914    8.767808   83.112699    1.100635
 0.003002   0.218784   111.912802
1.00000    8.767808   83.112699    1.100635
 0.003002   0.788475   118.507748

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -8.664292   -93.158930   -1.377966
-0.002899  -1.523466   -100.460756
0.57742   -8.664292   -93.158930   -1.377966
-0.002899  -0.946429   -70.155054
0.71828   -8.664292   -93.158930   -1.377966
-0.002899  -0.376382   -52.097767
0.85914   -8.664292   -93.158930   -1.377966
-0.002899  -0.171031   -36.803981
1.00000   -8.664292   -93.158930   -1.377966
-0.002899  -0.628330   -41.898817

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    8.905131    4.182933    0.777717
4.21E-06   0.865640    6.186317
0.57742    8.905131    4.182933    0.777717
4.21E-06   0.539367    5.251692
0.71828    8.905131    4.182933    0.777717
4.21E-06   0.212257    4.606732
0.85914    8.905131    4.182933    0.777717
4.21E-06   0.129434    3.977267
1.00000    8.905131    4.182933    0.777717
4.21E-06   0.498330    3.363998

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -0.390426   -79.569144   -0.880215
-0.000836  -0.977113   -150.656196
0.57742   -0.390426   -79.569144   -0.880215
-0.000836  -0.607961   -117.977070
0.71828   -0.390426   -79.569144   -0.880215
-0.000836  -0.239014   -85.417161
0.85914   -0.390426   -79.569144   -0.880215
-0.000836  -0.112266   -52.852639
1.00000   -0.390426   -79.569144   -0.880215
-0.000836  -0.439372   -20.298819

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    15.149404   26.157763    1.062585
 0.005818   1.178512    79.743832
0.57742    15.149404   26.157763    1.062585
 0.005818   0.734974    79.743818
0.71828    15.149404   26.157763    1.062585
 0.005818   0.289688    86.578788
0.85914    15.149404   26.157763    1.062585
 0.005818   0.219570    109.262343
1.00000    15.149404   26.157763    1.062585
 0.005818   0.762150    132.094063

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -1.454455   -164.436836   -1.296247
-0.006913  -1.413032   -191.006073
0.57742   -1.454455   -164.436836   -1.296247
-0.006913  -0.871559   -125.989921
0.71828   -1.454455   -164.436836   -1.296247
-0.006913  -0.348868   -86.400540
0.85914   -1.454455   -164.436836   -1.296247
-0.006913  -0.178064   -48.827141
1.00000   -1.454455   -164.436836   -1.296247
-0.006913  -0.614605   -11.451971
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2956

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    13.131877   67.259023    1.104478
 0.004358   1.225954    181.787785
0.57742    13.131877   67.259023    1.104478
 0.004358   0.764236    156.768415
0.71828    13.131877   67.259023    1.104478
 0.004358   0.301788    141.633432
0.85914    13.131877   67.259023    1.104478
 0.004358   0.223881    137.965799
1.00000    13.131877   67.259023    1.104478
 0.004358   0.809564    134.532097

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -5.325617   -136.570344   -1.398465
-0.005286  -1.536724   -168.647854
0.57742   -5.325617   -136.570344   -1.398465
-0.005286  -0.951745   -114.391150
0.71828   -5.325617   -136.570344   -1.398465
-0.005286  -0.380678   -78.489467
0.85914   -5.325617   -136.570344   -1.398465
-0.005286  -0.178298   -44.017892
1.00000   -5.325617   -136.570344   -1.398465
-0.005286  -0.634374    -9.717928

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    11.293356   77.339466    1.202307
 0.004031   1.333792   163.722704
0.57742    11.293356   77.339466    1.202307
 0.004031   0.831009   136.165164
0.71828    11.293356   77.339466    1.202307
 0.004031   0.327125   120.775166
0.85914    11.293356   77.339466    1.202307
 0.004031   0.231987   116.000813
1.00000    11.293356   77.339466    1.202307
 0.004031   0.853135   113.266600

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -7.725316  -114.920055   -1.483021
-0.004421  -1.635094  -142.948853
0.57742   -7.725316  -114.920055   -1.483021
-0.004421  -1.014430  -101.023327
0.71828   -7.725316  -114.920055   -1.483021
-0.004421  -0.404853   -77.155987
0.85914   -7.725316  -114.920055   -1.483021
-0.004421  -0.191079   -55.565091
1.00000   -7.725316  -114.920055   -1.483021
-0.004421  -0.689292   -35.165589

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    16.392226   102.989371   0.869284
 0.005791   0.967166   220.174776
0.57742    16.392226   102.989371   0.869284
 0.005791   0.602536   185.096484
0.71828    16.392226   102.989371   0.869284
 0.005791   0.237836   159.511776
0.85914    16.392226   102.989371   0.869284
 0.005791   0.153651   148.722467
1.00000    16.392226   102.989371   0.869284
 0.005791   0.554727   141.145405

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -12.050157  -171.916450   -0.956796
-0.007027  -1.051311   -195.207696
0.57742   -12.050157  -171.916450   -0.956796
-0.007027  -0.649981   -131.631634
0.71828   -12.050157  -171.916450   -0.956796
-0.007027  -0.260783   -88.290217
0.85914   -12.050157  -171.916450   -0.956796
-0.007027  -0.134323   -54.068233
1.00000   -12.050157  -171.916450   -0.956796
-0.007027  -0.491342   -69.744403
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2957

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    15.149404   101.098658   1.202307
 0.005818   1.333792   219.193307
0.57742    15.149404   101.098658   1.202307
 0.005818   0.831009   186.127814
0.71828    15.149404   101.098658   1.202307
 0.005818   0.327125   162.942744
0.85914    15.149404   101.098658   1.202307
 0.005818   0.231987   151.608948
1.00000    15.149404   101.098658   1.202307
 0.005818   0.853135   143.484944

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -11.192507  -164.436836   -1.483021
-0.006913  -1.635094   -191.006073
0.57742   -11.192507  -164.436836   -1.483021
-0.006913  -1.014430   -125.989921
0.71828   -11.192507  -164.436836   -1.483021
-0.006913  -0.404853   -86.400540
0.85914   -11.192507  -164.436836   -1.483021
-0.006913  -0.191079   -57.914321
1.00000   -11.192507  -164.436836   -1.483021
-0.006913  -0.689292   -75.864050

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    16.392226   102.989371   1.202307
 0.005818   1.333792   220.174776
0.57742    16.392226   102.989371   1.202307
 0.005818   0.831009   186.127814
0.71828    16.392226   102.989371   1.202307
 0.005818   0.327125   162.942744
0.85914    16.392226   102.989371   1.202307
 0.005818   0.231987   151.608948
1.00000    16.392226   102.989371   1.202307
 0.005818   0.853135   143.484944

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -12.050157  -171.916450   -1.483021
-0.007027  -1.635094   -195.207696
0.57742   -12.050157  -171.916450   -1.483021
-0.007027  -1.014430   -131.631634
0.71828   -12.050157  -171.916450   -1.483021
-0.007027  -0.404853   -88.290217
0.85914   -12.050157  -171.916450   -1.483021
-0.007027  -0.191079   -57.914321
1.00000   -12.050157  -171.916450   -1.483021
-0.007027  -0.689292   -75.864050

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43656    16.392226   102.989371   1.202307
 0.005818   1.333792   220.174776
0.57742    16.392226   102.989371   1.202307
 0.005818   0.831009   186.127814
0.71828    16.392226   102.989371   1.202307
 0.005818   0.327125   162.942744
0.85914    16.392226   102.989371   1.202307
 0.005818   0.231987   151.608948
1.00000    16.392226   102.989371   1.202307
 0.005818   0.853135   143.484944

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43656   -12.050157  -171.916450   -1.483021
-0.007027  -1.635094   -195.207696
0.57742   -12.050157  -171.916450   -1.483021
-0.007027  -1.014430   -131.631634
0.71828   -12.050157  -171.916450   -1.483021
-0.007027  -0.404853   -88.290217
0.85914   -12.050157  -171.916450   -1.483021
-0.007027  -0.191079   -57.914321
1.00000   -12.050157  -171.916450   -1.483021
-0.007027  -0.689292   -75.864050
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                2958

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      275 ================== LENGTH
=    2.977811

COMB DB-G1-1 ------------------- MAX
```

```
REL DIST          P          V2          V3
     T          M2          M3
 0.00000   0.216679   20.788313    0.356519
 0.000413   0.198956   3.014256
 0.14086   0.216679   20.788313    0.356519
 0.000413   0.049297   3.829008
 0.28172   0.216679   20.788313    0.356519
 0.000413   0.084373   4.703400
 0.42258   0.216679   20.788313    0.356519
 0.000413   0.210150   5.626340
 0.56344   0.216679   20.788313    0.356519
 0.000413   0.335952   6.566007

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -4.352656  -2.254395   -0.299920
-6.85E-06  -0.167259  -48.765928
 0.14086  -4.352656  -2.254395   -0.299920
-6.85E-06  -0.041414  -57.175721
 0.28172  -4.352656  -2.254395   -0.299920
-6.85E-06  -0.100121  -65.638981
 0.42258  -4.352656  -2.254395   -0.299920
-6.85E-06  -0.249671  -74.189688
 0.56344  -4.352656  -2.254395   -0.299920
-6.85E-06  -0.399214  -82.772440

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   0.699992   50.574406    0.583403
 0.000950   0.326068   8.404267
 0.14086   0.699992   50.574406    0.583403
 0.000950   0.081772   7.797024
 0.28172   0.699992   50.574406    0.583403
 0.000950   0.141905   7.802029
 0.42258   0.699992   50.574406    0.583403
 0.000950   0.353380   8.482952
 0.56344   0.699992   50.574406    0.583403
 0.000950   0.565538   9.764979

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -8.830248  -3.336169   -0.505809
-0.000187  -0.283139  -69.771526
 0.14086  -8.830248  -3.336169   -0.505809
-0.000187  -0.071099  -87.525805
 0.28172  -8.830248  -3.336169   -0.505809
-0.000187  -0.162295  -106.301473
 0.42258  -8.830248  -3.336169   -0.505809
-0.000187  -0.408038  -125.351861
 0.56344  -8.830248  -3.336169   -0.505809
-0.000187  -0.652748  -145.539626

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   0.836494   102.110983    0.607794
 0.001071   0.340445   58.195422
 0.14086   0.836494   102.110983    0.607794
 0.001071   0.085319   36.227645
 0.28172   0.836494   102.110983    0.607794
 0.001071   0.185401   30.124793
 0.42258   0.836494   102.110983    0.607794
 0.001071   0.459874   28.101746
 0.56344   0.836494   102.110983    0.607794
 0.001071   0.734512   27.440213

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -11.912562  -3.148888   -0.654855
-0.000243  -0.364236  -60.563898
 0.14086  -11.912562  -3.148888   -0.654855
-0.000243  -0.089652  -73.704271
 0.28172  -11.912562  -3.148888   -0.654855
-0.000243  -0.169373  -89.870766
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2959

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
 0.42258  -11.912562  -3.148888   -0.654855
-0.000243  -0.424402  -130.601995
 0.56344  -11.912562  -3.148888   -0.654855
-0.000243  -0.679321  -173.044848

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   5.438426   123.009164    0.748458
 0.004376   0.419247   129.861559
 0.14086   5.438426   123.009164    0.748458
 0.004376   0.115797   114.631384
 0.28172   5.438426   123.009164    0.748458
 0.004376   0.223804   112.307163
 0.42258   5.438426   123.009164    0.748458
 0.004376   0.546181   122.384173
 0.56344   5.438426   123.009164    0.748458
 0.004376   0.881380   140.653706

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -11.974890  -52.134540   -0.799229
-0.003955  -0.460075  -51.515207
 0.14086  -11.974890  -52.134540   -0.799229
-0.003955  -0.125470  -62.833730
 0.28172  -11.974890  -52.134540   -0.799229
-0.003955  -0.208557  -77.037535
 0.42258  -11.974890  -52.134540   -0.799229
-0.003955  -0.523595  -111.014181
 0.56344  -11.974890  -52.134540   -0.799229
-0.003955  -0.836523  -155.201512

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   0.596778   42.562975    0.214438
 0.000437   0.120477   13.827868
 0.14086   0.596778   42.562975    0.214438
 0.000437   0.030524   8.475427
 0.28172   0.596778   42.562975    0.214438
 0.000437   0.064896   6.687050
 0.42258   0.596778   42.562975    0.214438
 0.000437   0.161071   5.984021
 0.56344   0.596778   42.562975    0.214438
 0.000437   0.257297   5.601000

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -5.299226  -0.955579   -0.229425
-8.12E-05  -0.127778  -12.123735
 0.14086  -5.299226  -0.955579   -0.229425
-8.12E-05  -0.031550  -16.842166
 0.28172  -5.299226  -0.955579   -0.229425
-8.12E-05  -0.059336  -32.156566
 0.42258  -5.299226  -0.955579   -0.229425
-8.12E-05  -0.149328  -49.225180
 0.56344  -5.299226  -0.955579   -0.229425
-8.12E-05  -0.239275  -66.782393

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   1.528109   138.598607    0.333993
 0.005474   0.187863   141.406847
 0.14086   1.528109   138.598607    0.333993
 0.005474   0.062331   95.376769
 0.28172   1.528109   138.598607    0.333993
 0.005474   0.135688   66.392994
 0.42258   1.528109   138.598607    0.333993
 0.005474   0.321351   53.997505
 0.56344   1.528109   138.598607    0.333993
 0.005474   0.524564   52.767814

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -10.456081  -8.608880   -0.484601
-0.005112  -0.289184  -10.164603
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2960

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
 0.14086  -10.456081  -8.608880   -0.484601
-0.005112  -0.086948  -14.478160
 0.28172  -10.456081  -8.608880   -0.484601
-0.005112  -0.092264  -22.747248
 0.42258  -10.456081  -8.608880   -0.484601
-0.005112  -0.232435  -57.092336
 0.56344  -10.456081  -8.608880   -0.484601
-0.005112  -0.372540  -105.267627

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   1.667083   143.019812    0.572545
 0.005272   0.320942   129.146482
 0.14086   1.667083   143.019812    0.572545
 0.005272   0.093847   88.299908
 0.28172   1.667083   143.019812    0.572545
 0.005272   0.186903   62.785473
 0.42258   1.667083   143.019812    0.572545
 0.005272   0.450750   52.231559
 0.56344   1.667083   143.019812    0.572545
 0.005272   0.730444   51.760373

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -13.073445  -9.295065   -0.666939
-0.004619  -0.389162  -44.888334
 0.14086  -13.073445  -9.295065   -0.666939
-0.004619  -0.110289  -56.079794
 0.28172  -13.073445  -9.295065   -0.666939
-0.004619  -0.159256  -71.253901
 0.42258  -13.073445  -9.295065   -0.666939
-0.004619  -0.399531  -109.706823
 0.56344  -13.073445  -9.295065   -0.666939
-0.004619  -0.639694  -160.616499

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   8.039803   112.904728    0.793016
 0.003632   0.444543   114.699287
 0.14086   8.039803   112.904728    0.793016
 0.003632   0.120417   111.196864
 0.28172   8.039803   112.904728    0.793016
 0.003632   0.237805   121.113590
 0.42258   8.039803   112.904728    0.793016
 0.003632   0.583822   141.649448
 0.56344   8.039803   112.904728    0.793016
 0.003632   0.940270   169.057778

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -10.814922  -73.113457   -0.849887
-0.003538  -0.486083  -39.102111
 0.14086  -10.814922  -73.113457   -0.849887
-0.003538  -0.130158  -48.904206
 0.28172  -10.814922  -73.113457   -0.849887
-0.003538  -0.220624  -61.739541
 0.42258  -10.814922  -73.113457   -0.849887
-0.003538  -0.553367  -94.567018
 0.56344  -10.814922  -73.113457   -0.849887
-0.003538  -0.886008  -135.894878

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   9.844465   3.850466    0.544711
 0.000158   0.305411   3.884135
 0.14086   9.844465   3.850466    0.544711
 0.000158   0.076926   20.821171
 0.28172   9.844465   3.850466    0.544711
 0.000158   0.145950   55.273585
 0.42258   9.844465   3.850466    0.544711
 0.000158   0.366294   89.981348
 0.56344   9.844465   3.850466    0.544711
 0.000158   0.586642   124.786088
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2961

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -0.421458  -83.145390   -0.525321
-0.000871  -0.294753  -15.907800
 0.14086  -0.421458  -83.145390   -0.525321
-0.000871  -0.074329  -4.035296
 0.28172  -0.421458  -83.145390   -0.525321
-0.000871  -0.151530  -4.813095
 0.42258  -0.421458  -83.145390   -0.525321
-0.000871  -0.380030  -5.826768
 0.56344  -0.421458  -83.145390   -0.525321
-0.000871  -0.608511  -7.247729

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   12.564490   86.206430    0.744967
 0.005949   0.417520   124.196929
 0.14086   12.564490   86.206430    0.744967
 0.005949   0.122783   126.500500
 0.28172   12.564490   86.206430    0.744967
 0.005949   0.216445   138.897559
 0.42258   12.564490   86.206430    0.744967
 0.005949   0.523990   168.462337
 0.56344   12.564490   86.206430    0.744967
 0.005949   0.852740   210.634451

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -4.659652  -110.030174   -0.783783
-0.006920  -0.463137  -5.843889
 0.14086  -4.659652  -110.030174   -0.783783
-0.006920  -0.135325  -5.488548
 0.28172  -4.659652  -110.030174   -0.783783
-0.006920  -0.207366  -6.763480
 0.42258  -4.659652  -110.030174   -0.783783
-0.006920  -0.519914  -10.801364
 0.56344  -4.659652  -110.030174   -0.783783
-0.006920  -0.832393  -33.826276

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  11.481124  114.779372    0.773986
 0.004502   0.434511   122.301810
 0.14086  11.481124  114.779372    0.773986
 0.004502   0.154508   116.899551
 0.28172  11.481124  114.779372    0.773986
 0.004502   0.248988   130.524582
 0.42258  11.481124  114.779372    0.773986
 0.004502   0.608525   158.301302
 0.56344  11.481124  114.779372    0.773986
 0.004502   0.982724   195.498191

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -8.233417  -98.694528   -0.892256
-0.005101  -0.514873  -5.318819
 0.14086  -8.233417  -98.694528   -0.892256
-0.005101  -0.141443  -6.246869
 0.28172  -8.233417  -98.694528   -0.892256
-0.005101  -0.214716  -11.816946
 0.42258  -8.233417  -98.694528   -0.892256
-0.005101  -0.539442  -40.605196
 0.56344  -8.233417  -98.694528   -0.892256
-0.005101  -0.864099  -80.621616

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   9.962923   114.122101    0.857481
 0.004017   0.480922   102.632156
 0.14086   9.962923   114.122101    0.857481
 0.004017   0.131211   98.704287
 0.28172   9.962923   114.122101    0.857481
 0.004017   0.258620   110.608097
 0.42258   9.962923   114.122101    0.857481
 0.004017   0.635083   134.250795
 0.56344   9.962923   114.122101    0.857481
 0.004017   1.023673   165.702324
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2962

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -10.227739  -83.285242   -0.926524
-0.004225  -0.531320  -30.038447
 0.14086  -10.227739  -83.285242   -0.926524
-0.004225  -0.143357  -38.238255
 0.28172  -10.227739  -83.285242   -0.926524
-0.004225  -0.238357  -49.769851
 0.42258  -10.227739  -83.285242   -0.926524
-0.004225  -0.598107  -80.961629
 0.56344  -10.227739  -83.285242   -0.926524
-0.004225  -0.957788  -121.831288

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   0.233051   23.963354    0.454599
 0.000368   0.253527   3.724487
 0.14086   0.233051   23.963354    0.454599
 0.000368   0.062915   4.752690
 0.28172   0.233051   23.963354    0.454599
 0.000368   0.148124   5.834624
 0.42258   0.233051   23.963354    0.454599
 0.000368   0.366405   6.947708
 0.56344   0.233051   23.963354    0.454599
 0.000368   0.584246   8.086671

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -4.457697  -2.762910   -0.519199
-3.99E-06  -0.287450  -54.429077
 0.14086  -4.457697  -2.762910   -0.519199
-3.99E-06  -0.068829  -64.230819
 0.28172  -4.457697  -2.762910   -0.519199
-3.99E-06  -0.127678  -74.083882
 0.42258  -4.457697  -2.762910   -0.519199
-3.99E-06  -0.318353  -84.005953
 0.56344  -4.457697  -2.762910   -0.519199
-3.99E-06  -0.508955  -93.991349

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   0.693918   54.695637    0.742557
 0.000781   8.176486
 0.14086   0.693918   54.695637    0.742557
 0.000781   0.103906   8.205366
 0.28172   0.693918   54.695637    0.742557
 0.000781   0.242924   8.904695
 0.42258   0.693918   54.695637    0.742557
 0.000781   0.609929   10.055365
 0.56344   0.693918   54.695637    0.742557
 0.000781   0.975346   11.475815

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -8.576457  -3.935763   -0.872605
-0.000114  -0.488383  -75.895358
 0.14086  -8.576457  -3.935763   -0.872605
-0.000114  -0.122251  -95.648947
 0.28172  -8.576457  -3.935763   -0.872605
-0.000114  -0.208194  -116.484033
 0.42258  -8.576457  -3.935763   -0.872605
-0.000114  -0.364374  -138.139267
 0.56344  -8.576457  -3.935763   -0.872605
-0.000114  -0.830999  -160.488255

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   0.887057   100.310220    0.800639
 0.000896   0.446933   68.314532
 0.14086   0.887057   100.310220    0.800639
 0.000896   0.111640   47.625451
 0.28172   0.887057   100.310220    0.800639
 0.000896   0.288896   34.049141
 0.42258   0.887057   100.310220    0.800639
 0.000896   0.725981   29.691298
 0.56344   0.887057   100.310220    0.800639
 0.000896   1.161431   28.741237
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2963

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -11.061929  -4.535683   -1.039634
-0.000240  -0.581751  -66.205513
 0.14086  -11.061929  -4.535683   -1.039634
-0.000240  -0.145604  -81.750423
 0.28172  -11.061929  -4.535683   -1.039634
-0.000240  -0.223202  -100.306726
 0.42258  -11.061929  -4.535683   -1.039634
-0.000240  -0.558975  -136.863294
 0.56344  -11.061929  -4.535683   -1.039634
-0.000240  -0.894626  -176.548098

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   5.068126   113.452387    1.010107
 0.003439   0.573958   132.921533
 0.14086   5.068126   113.452387    1.010107
 0.003439   0.154508   122.090089
 0.28172   5.068126   113.452387    1.010107
 0.003439   0.355910   117.128745
 0.42258   5.068126   113.452387    1.010107
 0.003439   0.885301   126.150244
 0.56344   5.068126   113.452387    1.010107
 0.003439   1.421427   143.114193

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -10.928734  -50.992315   -1.282909
-0.003106  -0.730076  -56.348519
 0.14086  -10.928734  -50.992315   -1.282909
-0.003106  -0.192501  -69.751585
 0.28172  -10.928734  -50.992315   -1.282909
-0.003106  -0.279933  -85.806240
 0.42258  -10.928734  -50.992315   -1.282909
-0.003106  -0.703012  -116.532166
 0.56344  -10.928734  -50.992315   -1.282909
-0.003106  -1.125550  -158.165022

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   0.627057   40.285221    0.274444
 0.000361   0.153712   14.621094
 0.14086   0.627057   40.285221    0.274444
 0.000361   0.038955   6.894255
 0.28172   0.627057   40.285221    0.274444
 0.000361   0.097045   5.214070
 0.42258   0.627057   40.285221    0.274444
 0.000361   0.249122   4.582500
 0.56344   0.627057   40.285221    0.274444
 0.000361   0.401343   4.339469

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -4.703869  -0.820044   -0.362430
-6.78E-05  -0.026715  -11.926683
 0.14086  -4.703869  -0.820044   -0.362430
-6.78E-05  -0.054633  -17.484025
 0.28172  -4.703869  -0.820044   -0.362430
-6.78E-05  -0.076465  -31.432966
 0.42258  -4.703869  -0.820044   -0.362430
-6.78E-05  -0.191519  -47.408234
 0.56344  -4.703869  -0.820044   -0.362430
-6.78E-05  -0.306593  -63.728025

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   1.562614   124.023438    0.460626
 0.004668   0.270637   143.482697
 0.14086   1.562614   124.023438    0.460626
 0.004668   0.084208   102.177741
 0.28172   1.562614   124.023438    0.460626
 0.004668   0.188192   68.742007
 0.42258   1.562614   124.023438    0.460626
 0.004668   0.466297   55.211069
 0.56344   1.562614   124.023438    0.460626
 0.004668   0.756340   53.065059
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                2964

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -9.194073  -9.100980   -0.696849
-0.004424  -0.412664  -9.716563
 0.14086  -9.194073  -9.100980   -0.696849
-0.004424  -0.121362  -14.339861
 0.28172  -9.194073  -9.100980   -0.696849
-0.004424  -0.126257  -23.677423
 0.42258  -9.194073  -9.100980   -0.696849
-0.004424  -0.318061  -51.759084
 0.56344  -9.194073  -9.100980   -0.696849
-0.004424  -0.509856  -95.677496

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   1.643566   133.086006    0.759318
 0.004512   0.436077   131.705714
 0.14086   1.643566   133.086006    0.759318
 0.004512   0.123525   95.083348
 0.28172   1.643566   133.086006    0.759318
 0.004512   0.281402   65.639355
 0.42258   1.643566   133.086006    0.759318
 0.004512   0.700441   54.255032
 0.56344   1.643566   133.086006    0.759318
 0.004512   1.129160   53.164451

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -11.930785  -10.098974   -1.027908
-0.004004  -0.595037  -47.835590
 0.14086  -11.930785  -10.098974   -1.027908
-0.004004  -0.164796  -60.534216
 0.28172  -11.930785  -10.098974   -1.027908
-0.004004  -0.210465  -77.828250
 0.42258  -11.930785  -10.098974   -1.027908
-0.004004  -0.527708  -111.502990
 0.56344  -11.930785  -10.098974   -1.027908
-0.004004  -0.844827  -160.329391

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   7.383888   104.203668    1.083587
 0.002909   0.614265   118.469848
 0.14086   7.383888   104.203668    1.083587
 0.002909   0.163189   117.879837
 0.28172   7.383888   104.203668    1.083587
 0.002909   0.376381   123.387523
 0.42258   7.383888   104.203668    1.083587
 0.002909   0.939751   142.061577
 0.56344   7.383888   104.203668    1.083587
 0.002909   1.509193   167.745864

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000  -9.761199  -70.560291   -1.361454
-0.002843  -0.773770  -41.905326
 0.14086  -9.761199  -70.560291   -1.361454
-0.002843  -0.203464  -53.078064
 0.28172  -9.761199  -70.560291   -1.361454
-0.002843  -0.300056  -67.909688
 0.42258  -9.761199  -70.560291   -1.361454
-0.002843  -0.754021  -97.162349
 0.56344  -9.761199  -70.560291   -1.361454
-0.002843  -1.207429  -135.827563

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   8.966833   4.183002    0.768719
 0.000155   0.431827   3.360558
 0.14086   8.966833   4.183002    0.768719
 0.000155   0.108952   19.488543
 0.28172   8.966833   4.183002    0.768719
 0.000155   0.241101   51.966181
 0.42258   8.966833   4.183002    0.768719
 0.000155   0.602179   84.976413
 0.56344   8.966833   4.183002    0.768719
 0.000155   0.963393   118.282148
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.380536	-79.952726	-0.861779
-0.000768	-0.481691	-20.332900	
0.14086	-0.380536	-79.952726	-0.861779
-0.000768	-0.120807	-5.752446	
0.28172	-0.380536	-79.952726	-0.861779
-0.000768	-0.213008	-6.266074	
0.42258	-0.380536	-79.952726	-0.861779
-0.000768	-0.536236	-7.454716	
0.56344	-0.380536	-79.952726	-0.861779
-0.000768	-0.858615	-9.042415	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.461293	82.373120	1.057119
0.006041	0.612352	132.131252	
0.14086	11.461293	82.373120	1.057119
0.006041	0.176967	132.325704	
0.28172	11.461293	82.373120	1.057119
0.006041	0.351055	142.611300	
0.42258	11.461293	82.373120	1.057119
0.006041	0.861726	168.060023	
0.56344	11.461293	82.373120	1.057119
0.006041	1.389727	206.074749	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.552366	-104.813164	-1.266987
-0.006780	-0.735457	-1.486671	
0.14086	-4.552366	-104.813164	-1.266987
-0.006780	-0.205852	-6.618311	
0.28172	-4.552366	-104.813164	-1.266987
-0.006780	-0.291118	-8.171115	
0.42258	-4.552366	-104.813164	-1.266987
-0.006780	-0.733482	-12.453675	
0.56344	-4.552366	-104.813164	-1.266987
-0.006780	-1.175026	-37.424492	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.492632	107.464440	1.097886
0.004594	0.629888	134.531242	
0.14086	10.492632	107.464440	1.097886
0.004594	0.175074	125.782248	
0.28172	10.492632	107.464440	1.097886
0.004594	0.382386	129.870239	
0.42258	10.492632	107.464440	1.097886
0.004594	0.947877	152.879011	
0.56344	10.492632	107.464440	1.097886
0.004594	1.525985	186.874632	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.500597	-93.710781	-1.384575
-0.005187	-0.795900	-9.746850	
0.14086	-7.500597	-93.710781	-1.384575
-0.005187	-0.216653	-6.545150	
0.28172	-7.500597	-93.710781	-1.384575
-0.005187	-0.302995	-13.346689	
0.42258	-7.500597	-93.710781	-1.384575
-0.005187	-0.762089	-35.575667	
0.56344	-7.500597	-93.710781	-1.384575
-0.005187	-1.221265	-73.189974	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.104317	110.570055	1.184515
0.004065	0.675305	113.270095	
0.14086	9.104317	110.570055	1.184515
0.004065	0.183472	106.697673	
0.28172	9.104317	110.570055	1.184515
0.004065	0.406154	110.688781	
0.42258	9.104317	110.570055	1.184515
0.004065	1.011896	130.350607	
0.56344	9.104317	110.570055	1.184515
0.004065	1.627789	159.163294	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2966

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.502503	-79.350756	-1.473511
-0.004307	-0.843609	-35.203128	
0.14086	-9.502503	-79.350756	-1.473511
-0.004307	-0.226710	-40.943156	
0.28172	-9.502503	-79.350756	-1.473511
-0.004307	-0.327775	-54.837377	
0.42258	-9.502503	-79.350756	-1.473511
-0.004307	-0.723960	-81.741527	
0.56344	-9.502503	-79.350756	-1.473511
-0.004307	-1.319485	-121.627098	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.564490	143.019812	0.857481
0.005949	0.480922	141.406847	
0.14086	12.564490	143.019812	0.857481
0.005949	0.131211	126.605520	
0.28172	12.564490	143.019812	0.857481
0.005949	0.258620	138.897549	
0.42258	12.564490	143.019812	0.857481
0.005949	0.635083	168.462337	
0.56344	12.564490	143.019812	0.857481
0.005949	1.023673	210.634451	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.073445	-110.030174	-0.926524
-0.006920	-0.531320	-69.771526	
0.14086	-13.073445	-110.030174	-0.926524
-0.006920	-0.143357	-67.525805	
0.28172	-13.073445	-110.030174	-0.926524
-0.006920	-0.238357	-106.301473	
0.42258	-13.073445	-110.030174	-0.926524
-0.006920	-0.598107	-130.601995	
0.56344	-13.073445	-110.030174	-0.926524
-0.006920	-0.957788	-173.044848	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.461293	133.086006	1.184515
0.006041	0.675305	143.482697	
0.14086	11.461293	133.086006	1.184515
0.006041	0.183472	132.325704	
0.28172	11.461293	133.086006	1.184515
0.006041	0.406154	142.611300	
0.42258	11.461293	133.086006	1.184515
0.006041	1.011896	168.060023	
0.56344	11.461293	133.086006	1.184515
0.006041	1.627789	206.074749	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.930785	-104.813164	-1.473511
-0.006780	-0.843609	-75.895358	
0.14086	-11.930785	-104.813164	-1.473511
-0.006780	-0.226710	-95.648947	
0.28172	-11.930785	-104.813164	-1.473511
-0.006780	-0.327775	-116.484033	
0.42258	-11.930785	-104.813164	-1.473511
-0.006780	-0.823960	-138.179267	
0.56344	-11.930785	-104.813164	-1.473511
-0.006780	-1.319485	-176.548098	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.564490	143.019812	1.184515
0.006041	0.675305	143.482697	
0.14086	12.564490	143.019812	1.184515
0.006041	0.183472	132.325704	
0.28172	12.564490	143.019812	1.184515
0.006041	0.406154	142.611300	
0.42258	12.564490	143.019812	1.184515
0.006041	1.011896	168.462337	
0.56344	12.564490	143.019812	1.184515
0.006041	1.627789	210.634451	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2967

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.073445	-110.030174	-1.473511
-0.006920	-0.843609	-75.895358	
0.14086	-13.073445	-110.030174	-1.473511
-0.006920	-0.226710	-95.648947	
0.28172	-13.073445	-110.030174	-1.473511
-0.006920	-0.327775	-116.484033	
0.42258	-13.073445	-110.030174	-1.473511
-0.006920	-0.823960	-138.179267	
0.56344	-13.073445	-110.030174	-1.473511
-0.006920	-1.319485	-176.548098	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.564490	143.019812	1.184515
0.006041	0.675305	143.482697	
0.14086	12.564490	143.019812	1.184515
0.006041	0.183472	132.325704	
0.28172	12.564490	143.019812	1.184515
0.006041	0.406154	142.611300	
0.42258	12.564490	143.019812	1.184515
0.006041	1.011896	168.462337	
0.56344	12.564490	143.019812	1.184515
0.006041	1.627789	210.634451	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.073445	-110.030174	-1.473511
-0.006920	-0.843609	-75.895358	
0.14086	-13.073445	-110.030174	-1.473511
-0.006920	-0.226710	-95.648947	
0.28172	-13.073445	-110.030174	-1.473511
-0.006920	-0.327775	-116.484033	
0.42258	-13.073445	-110.030174	-1.473511
-0.006920	-0.823960	-138.179267	
0.56344	-13.073445	-110.030174	-1.473511
-0.006920	-1.319485	-176.548098	

ELEM 276 ========== LENGTH = 2.977174

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.128754	21.761608	0.386284
0.000291	0.426711	1.699827	
0.57749	0.128754	21.761608	0.386284
0.000291	0.266745	1.229847	
0.71833	0.128754	21.761608	0.386284
0.000291	0.104772	2.211723	
0.85916	0.128754	21.761608	0.386284
0.000291	0.050890	3.590997	
1.00000	0.128754	21.761608	0.386284
0.000291	0.194119	5.110346	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-5.445017	-4.341412	-0.341430
-0.000191	-0.378525	-17.477464	
0.57749	-5.445017	-4.341412	-0.341430
-0.000191	-0.235375	-26.185107	
0.71833	-5.445017	-4.341412	-0.341430
-0.000191	-0.092231	-34.922911	
0.85916	-5.445017	-4.341412	-0.341430
-0.000191	-0.057204	-43.678408	
1.00000	-5.445017	-4.341412	-0.341430
-0.000191	-0.219159	-52.495163	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.817698	49.842511	0.628450
0.000831	0.697921	33.575253	
0.57749	0.817698	49.842511	0.628450
0.000831	0.434416	23.654004	
0.71833	0.817698	49.842511	0.628450
0.000831	0.170877	15.930232	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2968

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85916	0.817698	49.842511	0.628450
0.000831	0.084223	10.624042	
1.00000	0.817698	49.842511	0.628450
0.000831	0.320715	10.797810	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-9.391823	-8.073528	-0.563766
-0.000739	-0.624999	-19.905053	
0.57749	-9.391823	-8.073528	-0.563766
-0.000739	-0.388844	-29.984751	
0.71833	-9.391823	-8.073528	-0.563766
-0.000739	-0.152793	-42.471228	
0.85916	-9.391823	-8.073528	-0.563766
-0.000739	-0.093054	-57.142025	
1.00000	-9.391823	-8.073528	-0.563766
-0.000739	-0.356254	-73.251839	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.713976	101.872450	0.653040
0.000588	0.725853	181.111673	
0.57749	0.713976	101.872450	0.653040
0.000588	0.452030	148.380685	
0.71833	0.713976	101.872450	0.653040
0.000588	0.178184	117.238070	
0.85916	0.713976	101.872450	0.653040
0.000588	0.086799	87.535759	
1.00000	0.713976	101.872450	0.653040
0.000588	0.332758	61.332151	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-12.365721	-5.155096	-0.587348
-0.000516	-0.652336	-16.890658	
0.57749	-12.365721	-5.155096	-0.587348
-0.000516	-0.406070	-26.917758	
0.71833	-12.365721	-5.155096	-0.587348
-0.000516	-0.159803	-38.183492	
0.85916	-12.365721	-5.155096	-0.587348
-0.000516	-0.095449	-50.918491	
1.00000	-12.365721	-5.155096	-0.587348
-0.000516	-0.369447	-64.643719	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	7.466207	88.579918	0.769263
0.004220	0.855319	168.463038	
0.57749	7.466207	88.579918	0.769263
0.004220	0.532767	142.750265	
0.71833	7.466207	88.579918	0.769263
0.004220	0.210198	125.641533	
0.85916	7.466207	88.579918	0.769263
0.004220	0.119551	120.899139	
1.00000	7.466207	88.579918	0.769263
0.004220	0.417722	133.488087	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-10.522871	-91.341154	-0.711711
-0.004195	-0.779306	-78.372456	
0.57749	-10.522871	-91.341154	-0.711711
-0.004195	-0.485217	-55.125496	
0.71833	-10.522871	-91.341154	-0.711711
-0.004195	-0.193220	-45.118585	
0.85916	-10.522871	-91.341154	-0.711711
-0.004195	-0.123934	-43.549958	
1.00000	-10.522871	-91.341154	-0.711711
-0.004195	-0.437832	-55.669389	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.702318	42.016238	0.227428
0.000376	0.253121	75.700885	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2969

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57749	0.702318	42.016238	0.227428
0.000376	0.157762	58.170771	
0.71833	0.702318	42.016238	0.227428
0.000376	0.062377	40.975471	
0.85916	0.702318	42.016238	0.227428
0.000376	0.030663	25.058355	
1.00000	0.702318	42.016238	0.227428
0.000376	0.119341	14.253127	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-4.717433	-1.424667	-0.211355
-0.000371	-0.235140	-3.106711	
0.57749	-4.717433	-1.424667	-0.211355
-0.000371	-0.146530	-2.745119	
0.71833	-4.717433	-1.424667	-0.211355
-0.000371	-0.057923	-3.879779	
0.85916	-4.717433	-1.424667	-0.211355
-0.000371	-0.032896	-6.922909	
1.00000	-4.717433	-1.424667	-0.211355
-0.000371	-0.128321	-11.238678	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	4.657603	89.519912	0.337833
0.005109	0.234682	187.827903	
0.57749	4.657603	89.519912	0.337833
0.005109	0.234682	183.039236	
0.71833	4.657603	89.519912	0.337833
0.005109	0.093010	157.982874	
0.85916	4.657603	89.519912	0.337833
0.005109	0.067303	148.297655	
1.00000	4.657603	89.519912	0.337833
0.005109	0.201750	142.540729	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-7.462842	-60.241012	-0.321667
-0.005116	-0.342342	-21.599669	
0.57749	-7.462842	-60.241012	-0.321667
-0.005116	-0.213395	-3.319381	
0.71833	-7.462842	-60.241012	-0.321667
-0.005116	-0.087325	-3.169419	
0.85916	-7.462842	-60.241012	-0.321667
-0.005116	-0.064343	-5.389284	
1.00000	-7.462842	-60.241012	-0.321667
-0.005116	-0.194314	-10.737479	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	4.365796	99.178906	0.598212
0.004870	0.665261	196.475001	
0.57749	4.365796	99.178906	0.598212
0.004870	0.414432	163.805126	
0.71833	4.365796	99.178906	0.598212
0.004870	0.163584	142.353738	
0.85916	4.365796	99.178906	0.598212
0.004870	0.099502	135.642101	
1.00000	4.365796	99.178906	0.598212
0.004870	0.330321	131.587038	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-10.761331	-57.353778	-0.551201
-0.004816	-0.598293	-25.168022	
0.57749	-10.761331	-57.353778	-0.551201
-0.004816	-0.372540	-17.118115	
0.71833	-10.761331	-57.353778	-0.551201
-0.004816	-0.149377	-25.189118	
0.85916	-10.761331	-57.353778	-0.551201
-0.004816	-0.101619	-35.950584	
1.00000	-10.761331	-57.353778	-0.551201
-0.004816	-0.341695	-47.576443	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2970

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	9.590265	85.184551	0.802818
0.003625	0.892971	166.099361	
0.57749	9.590265	85.184551	0.802818
0.003625	0.556352	138.203337	
0.71833	9.590265	85.184551	0.802818
0.003625	0.219703	118.841372	
0.85916	9.590265	85.184551	0.802818
0.003625	0.122523	110.193411	
1.00000	9.590265	85.184551	0.802818
0.003625	0.438571	118.465740	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-9.098878	-104.414957	-0.754309
-0.003628	-0.829264	-108.148323	
0.57749	-9.098878	-104.414957	-0.754309
-0.003628	-0.516502	-76.638830	
0.71833	-9.098878	-104.414957	-0.754309
-0.003628	-0.205438	-55.883826	
0.85916	-9.098878	-104.414957	-0.754309
-0.003628	-0.126253	-37.106337	
1.00000	-9.098878	-104.414957	-0.754309
-0.003628	-0.455894	-42.482898	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	9.705817	5.487942	0.526388
0.000424	0.585694	6.793699	
0.57749	9.705817	5.487942	0.526388
0.000424	0.364984	4.938629	
0.71833	9.705817	5.487942	0.526388
0.000424	0.144267	4.286826	
0.85916	9.705817	5.487942	0.526388
0.000424	0.075144	3.665615	
1.00000	9.705817	5.487942	0.526388
0.000424	0.292307	3.054929	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-0.123191	-82.445256	-0.517719
-0.000493	-0.576007	-150.744997	
0.57749	-0.123191	-82.445256	-0.517719
-0.000493	-0.358939	-116.208535	
0.71833	-0.123191	-82.445256	-0.517719
-0.000493	-0.141869	-81.699046	
0.85916	-0.123191	-82.445256	-0.517719
-0.000493	-0.076394	-47.197040	
1.00000	-0.123191	-82.445256	-0.517719
-0.000493	-0.297154	-12.816898	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	16.052823	29.583619	0.700631
0.006356	0.779714	85.658631	
0.57749	16.052823	29.583619	0.700631
0.006356	0.485945	77.129270	
0.71833	16.052823	29.583619	0.700631
0.006356	0.192125	80.695484	
0.85916	16.052823	29.583619	0.700631
0.006356	0.127020	102.597845	
1.00000	16.052823	29.583619	0.700631
0.006356	0.419939	124.728089	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-1.401919	-171.990364	-0.699484
-0.006444	-0.758811	-191.855161	
0.57749	-1.401919	-171.990364	-0.699484
-0.006444	-0.472744	-128.081216	
0.71833	-1.401919	-171.990364	-0.699484
-0.006444	-0.190168	-84.758473	
0.85916	-1.401919	-171.990364	-0.699484
-0.006444	-0.121093	-43.543845	
1.00000	-1.401919	-171.990364	-0.699484
-0.006444	-0.400267	-6.826614	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2971

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	13.865153	75.378164	0.754196
0.004617	0.539626	187.434861	
0.57749	13.865153	75.378164	0.754196
0.004617	0.523397	158.638018	
0.71833	13.865153	75.378164	0.754196
0.004617	0.207157	138.165043	
0.85916	13.865153	75.378164	0.754196
0.004617	0.123787	130.559635	
1.00000	13.865153	75.378164	0.754196
0.004617	0.431797	123.220474	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-5.555328	-140.835496	-0.735202
-0.004702	-0.805102	-170.118658	
0.57749	-5.555328	-140.835496	-0.735202
-0.004702	-0.501790	-116.836948	
0.71833	-5.555328	-140.835496	-0.735202
-0.004702	-0.200883	-77.657877	
0.85916	-5.555328	-140.835496	-0.735202
-0.004702	-0.122387	-39.998143	
1.00000	-5.555328	-140.835496	-0.735202
-0.004702	-0.428657	-7.623412	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	11.926984	81.957157	0.857523
0.004090	0.954084	167.147074	
0.57749	11.926984	81.957157	0.857523
0.004090	0.594527	137.329217	
0.71833	11.926984	81.957157	0.857523
0.004090	0.234950	117.452442	
0.85916	11.926984	81.957157	0.857523
0.004090	0.133525	109.569839	
1.00000	11.926984	81.957157	0.857523
0.004090	0.476593	104.335823	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-7.923665	-119.051983	-0.818705
-0.004128	-0.899702	-143.703640	
0.57749	-7.923665	-119.051983	-0.818705
-0.004128	-0.560520	-103.866855	
0.71833	-7.923665	-119.051983	-0.818705
-0.004128	-0.223322	-76.932042	
0.85916	-7.923665	-119.051983	-0.818705
-0.004128	-0.135528	-52.312549	
1.00000	-7.923665	-119.051983	-0.818705
-0.004128	-0.486929	-32.874978	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.158502	26.547875	0.489694
0.000241	0.543178	1.802122	
0.57749	0.158502	26.547875	0.489694
0.000241	0.337868	1.381833	
0.71833	0.158502	26.547875	0.489694
0.000241	0.132606	2.690396	
0.85916	0.158502	26.547875	0.489694
0.000241	0.071850	4.504203	
1.00000	0.158502	26.547875	0.489694
0.000241	0.274985	6.458044	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-6.056295	-5.376637	-0.482327
-0.000178	-0.534617	-18.992187	
0.57749	-6.056295	-5.376637	-0.482327
-0.000178	-0.332522	-28.094219	
0.71833	-6.056295	-5.376637	-0.482327
-0.000178	-0.129716	-36.502644	
0.85916	-6.056295	-5.376637	-0.482327
-0.000178	-0.072357	-49.246802	
1.00000	-6.056295	-5.376637	-0.482327
-0.000178	-0.277691	-60.102984	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	0.838345	57.133119	0.811058
0.000639	0.898594	35.594690	
0.57749	0.838345	57.133119	0.811058
0.000639	0.559566	24.921754	
0.71833	0.838345	57.133119	0.811058
0.000639	0.218687	17.084765	
0.85916	0.838345	57.133119	0.811058
0.000639	0.112808	11.400964	
1.00000	0.838345	57.133119	0.811058
0.000639	0.432265	11.667205	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-9.542879	-8.576537	-0.760113
-0.000577	-0.842702	-21.215046	
0.57749	-9.542879	-8.576537	-0.760113
-0.000577	-0.524481	-31.830013	
0.71833	-9.542879	-8.576537	-0.760113
-0.000577	-0.205351	-46.438335	
0.85916	-9.542879	-8.576537	-0.760113
-0.000577	-0.121705	-62.702148	
1.00000	-9.542879	-8.576537	-0.760113
-0.000577	-0.461246	-82.291411	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	0.895877	102.951370	0.855946
0.000395	0.949002	183.442333	
0.57749	0.895877	102.951370	0.855946
0.000395	0.590370	152.444276	
0.71833	0.895877	102.951370	0.855946
0.000395	0.231910	123.699855	
0.85916	0.895877	102.951370	0.855946
0.000395	0.117279	96.540345	
1.00000	0.895877	102.951370	0.855946
0.000395	0.451955	73.683875	

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-11.859251	-7.253445	-0.797069
-0.000339	-0.884883	-18.630921	
0.57749	-11.859251	-7.253445	-0.797069
-0.000339	-0.551030	-28.641011	
0.71833	-11.859251	-7.253445	-0.797069
-0.000339	-0.217177	-37.468228	
0.85916	-11.859251	-7.253445	-0.797069
-0.000339	-0.127182	-55.720522	
1.00000	-11.859251	-7.253445	-0.797069
-0.000339	-0.485308	-72.427842	

COMB DL-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	6.602022	90.070041	1.028021
0.003231	1.138333	173.594751	
0.57749	6.602022	90.070041	1.028021
0.003231	0.708228	148.265570	
0.71833	6.602022	90.070041	1.028021
0.003231	0.280017	131.887682	
0.85916	6.602022	90.070041	1.028021
0.003231	0.159250	128.561411	
1.00000	6.602022	90.070041	1.028021
0.003231	0.575098	139.872604	

COMB DL-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-10.155863	-81.688510	-0.992171
-0.003310	-1.089469	-72.860723	
0.57749	-10.155863	-81.688510	-0.992171
-0.003310	-0.626159	-51.625965	
0.71833	-10.155863	-81.688510	-0.992171
-0.003310	-0.268558	-45.466006	
0.85916	-10.155863	-81.688510	-0.992171
-0.003310	-0.163835	-47.648281	
1.00000	-10.155863	-81.688510	-0.992171
-0.003310	-0.593532	-62.367361	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	0.723524	40.646027	0.307136
0.000305	0.339765	74.668660	
0.57749	0.723524	40.646027	0.307136
0.000305	0.210954	57.891795	
0.71833	0.723524	40.646027	0.307136
0.000305	0.118213	41.576607	
0.85916	0.723524	40.646027	0.307136
0.000305	0.037745	26.508153	
1.00000	0.723524	40.646027	0.307136
0.000305	0.146560	15.459077	

COMB DL-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-3.957276	-1.354328	-0.259560
-0.000303	-0.288610	-3.500853	
0.57749	-3.957276	-1.354328	-0.259560
-0.000303	-0.179548	-3.351552	
0.71833	-3.957276	-1.354328	-0.259560
-0.000303	-0.070705	-4.698030	
0.85916	-3.957276	-1.354328	-0.259560
-0.000303	-0.046850	-6.957547	
1.00000	-3.957276	-1.354328	-0.259560
-0.000303	-0.175253	-11.506098	

COMB DL-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	4.142850	84.100780	0.472064
0.004395	0.517864	221.200071	
0.57749	4.142850	84.100780	0.472064
0.004395	0.320947	188.480373	
0.71833	4.142850	84.100780	0.472064
0.004395	0.127588	165.475839	
0.85916	4.142850	84.100780	0.472064
0.004395	0.084051	154.456462	
1.00000	4.142850	84.100780	0.472064
0.004395	0.267406	147.352609	

COMB DL-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-6.336103	-51.904564	-0.438734
-0.004424	-0.468734	-22.366207	
0.57749	-6.336103	-51.904564	-0.438734
-0.004424	-0.288228	-3.233435	
0.71833	-6.336103	-51.904564	-0.438734
-0.004424	-0.117795	-3.370302	
0.85916	-6.336103	-51.904564	-0.438734
-0.004424	-0.089742	-5.788081	
1.00000	-6.336103	-51.904564	-0.438734
-0.004424	-0.287111	-10.457598	

COMB DL-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	3.992985	98.644326	0.799528
0.004186	0.881181	199.431914	
0.57749	3.992985	98.644326	0.799528
0.004186	0.546707	168.393063	
0.71833	3.992985	98.644326	0.799528
0.004186	0.215736	149.469176	
0.85916	3.992985	98.644326	0.799528
0.004186	0.128127	141.908096	
1.00000	3.992985	98.644326	0.799528
0.004186	0.442218	136.981981	

COMB DL-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-9.927920	-50.596732	-0.748904
-0.004171	-0.814522	-26.254819	
0.57749	-9.927920	-50.596732	-0.748904
-0.004171	-0.503725	-16.560281	
0.71833	-9.927920	-50.596732	-0.748904
-0.004171	-0.201283	-26.386971	
0.85916	-9.927920	-50.596732	-0.748904
-0.004171	-0.136985	-38.467966	
1.00000	-9.927920	-50.596732	-0.748904
-0.004171	-0.471434	-52.078110	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	8.698981	85.291870	1.085205
0.002902	1.203266	168.966012	
0.57749	8.698981	85.291870	1.085205
0.002902	0.748834	141.968285	
0.71833	8.698981	85.291870	1.085205
0.002902	0.296381	123.853047	
0.85916	8.698981	85.291870	1.085205
0.002902	0.164077	114.430725	
1.00000	8.698981	85.291870	1.085205
0.002902	0.600237	125.266190	

COMB DL-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-8.431702	-96.101441	-1.041768
-0.002922	-1.147312	-101.006238	
0.57749	-8.431702	-96.101441	-1.041768
-0.002922	-0.712511	-70.298922	
0.71833	-8.431702	-96.101441	-1.041768
-0.002922	-0.282925	-52.215471	
0.85916	-8.431702	-96.101441	-1.041768
-0.002922	-0.169735	-38.458718	
1.00000	-8.431702	-96.101441	-1.041768
-0.002922	-0.624198	-46.787700	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	9.078377	6.325165	0.724544
0.000347	0.808124	6.933148	
0.57749	9.078377	6.325165	0.724544
0.000347	0.504411	5.318758	
0.71833	9.078377	6.325165	0.724544
0.000347	0.200657	4.688838	
0.85916	9.078377	6.325165	0.724544
0.000347	0.106537	4.162828	
1.00000	9.078377	6.325165	0.724544
0.000347	0.408821	3.618792	

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-0.132215	-81.385202	-0.722409
-0.000401	-0.803217	-150.193663	
0.57749	-0.132215	-81.385202	-0.722409
-0.000401	-0.500474	-117.006663	
0.71833	-0.132215	-81.385202	-0.722409
-0.000401	-0.198204	-84.359299	
0.85916	-0.132215	-81.385202	-0.722409
-0.000401	-0.104378	-51.736233	
1.00000	-0.132215	-81.385202	-0.722409
-0.000401	-0.408410	-19.132330	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	15.006062	28.067472	0.984637
0.006279	1.089635	89.269232	
0.57749	15.006062	28.067472	0.984637
0.006279	0.678100	81.908936	
0.71833	15.006062	28.067472	0.984637
0.006279	0.271172	88.493034	
0.85916	15.006062	28.067472	0.984637
0.006279	0.177405	111.481683	
1.00000	15.006062	28.067472	0.984637
0.006279	0.598704	134.739468	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-1.221678	-166.900124	-1.008648
-0.006360	-1.094003	-190.611464	
0.57749	-1.221678	-166.900124	-1.008648
-0.006360	-0.676435	-124.782361	
0.71833	-1.221678	-166.900124	-1.008648
-0.006360	-0.273357	-84.950769	
0.85916	-1.221678	-166.900124	-1.008648
-0.006360	-0.169496	-47.404150	
1.00000	-1.221678	-166.900124	-1.008648
-0.006360	-0.581940	-10.973774	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	13.130727	68.487125	1.049543
0.004741	1.163382	184.588736	
0.57749	13.130727	68.487125	1.049543
0.004741	0.724447	159.265907	
0.71833	13.130727	68.487125	1.049543
0.004741	0.288727	144.153045	
0.85916	13.130727	68.487125	1.049543
0.004741	0.172469	140.925288	
1.00000	13.130727	68.487125	1.049543
0.004741	0.604826	137.970471	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-4.609111	-138.603462	-1.034695
-0.004824	-1.130957	-168.348238	
0.57749	-4.609111	-138.603462	-1.034695
-0.004824	-0.700987	-113.413668	
0.71833	-4.609111	-138.603462	-1.034695
-0.004824	-0.281626	-77.330743	
0.85916	-4.609111	-138.603462	-1.034695
-0.004824	-0.172001	-42.905207	
1.00000	-4.609111	-138.603462	-1.034695
-0.004824	-0.612058	-9.903257	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	11.392513	79.420988	1.174626
0.004149	1.301524	165.715650	
0.57749	11.392513	79.420988	1.174626
0.004149	0.809880	137.933232	
0.71833	11.392513	79.420988	1.174626
0.004149	0.320960	122.945779	
0.85916	11.392513	79.420988	1.174626
0.004149	0.183454	118.847693	
1.00000	11.392513	79.420988	1.174626
0.004149	0.657452	117.250810	

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-7.032823	-117.763957	-1.132809
-0.004195	-1.242952	-143.184306	
0.57749	-7.032823	-117.763957	-1.132809
-0.004195	-0.770949	-100.517530	
0.71833	-7.032823	-117.763957	-1.132809
-0.004195	-0.307697	-77.153673	
0.85916	-7.032823	-117.763957	-1.132809
-0.004195	-0.188555	-55.947149	
1.00000	-7.032823	-117.763957	-1.132809
-0.004195	-0.680915	-37.233983	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	16.052823	101.872450	0.857523
0.006356	0.954084	217.827903	
0.57749	16.052823	101.872450	0.857523
0.006356	0.594527	183.039236	
0.71833	16.052823	101.872450	0.857523
0.006356	0.234950	157.982874	
0.85916	16.052823	101.872450	0.857523
0.006356	0.133525	148.297655	
1.00000	16.052823	101.872450	0.857523
0.006356	0.476593	142.540729	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-12.365721	-171.990364	-0.818705
-0.006444	-0.899702	-191.855161	
0.57749	-12.365721	-171.990364	-0.818705
-0.006444	-0.560520	-128.081216	
0.71833	-12.365721	-171.990364	-0.818705
-0.006444	-0.223322	-84.758473	
0.85916	-12.365721	-171.990364	-0.818705
-0.006444	-0.135528	-57.142025	
1.00000	-12.365721	-171.990364	-0.818705
-0.006444	-0.486929	-73.251839	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	15.006062	102.951370	1.174626
0.006279	1.301524	221.200071	
0.57749	15.006062	102.951370	1.174626
0.006279	0.809880	188.480373	
0.71833	15.006062	102.951370	1.174626
0.006279	0.320960	165.475839	
0.85916	15.006062	102.951370	1.174626
0.006279	0.183454	154.456462	
1.00000	15.006062	102.951370	1.174626
0.006279	0.657452	147.352609	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-11.859251	-166.900124	-1.132809
-0.006360	-1.242952	-190.611464	
0.57749	-11.859251	-166.900124	-1.132809
-0.006360	-0.770949	-124.782361	
0.71833	-11.859251	-166.900124	-1.132809
-0.006360	-0.307697	-84.950769	
0.85916	-11.859251	-166.900124	-1.132809
-0.006360	-0.188555	-62.702148	
1.00000	-11.859251	-166.900124	-1.132809
-0.006360	-0.680915	-82.291411	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	16.052823	102.951370	1.174626
0.006356	1.301524	221.200071	
0.57749	16.052823	102.951370	1.174626
0.006356	0.809880	188.480373	
0.71833	16.052823	102.951370	1.174626
0.006356	0.320960	165.475839	
0.85916	16.052823	102.951370	1.174626
0.006356	0.183454	154.456462	
1.00000	16.052823	102.951370	1.174626
0.006356	0.657452	147.352609	

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-12.365721	-171.990364	-1.132809
-0.006444	-1.242952	-191.855161	
0.57749	-12.365721	-171.990364	-1.132809
-0.006444	-0.770949	-128.081216	
0.71833	-12.365721	-171.990364	-1.132809
-0.006444	-0.307697	-84.950769	
0.85916	-12.365721	-171.990364	-1.132809
-0.006444	-0.188555	-62.702148	
1.00000	-12.365721	-171.990364	-1.132809
-0.006444	-0.680915	-82.291411	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43666	16.052823	102.951370	1.174626
0.006356	1.301524	221.200071	
0.57749	16.052823	102.951370	1.174626
0.006356	0.809880	188.480373	
0.71833	16.052823	102.951370	1.174626
0.006356	0.320960	165.475839	
0.85916	16.052823	102.951370	1.174626
0.006356	0.183454	154.456462	
1.00000	16.052823	102.951370	1.174626
0.006356	0.657452	147.352609	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43666	-12.365721	-171.990364	-1.132809
-0.006444	-1.242952	-191.855161	
0.57749	-12.365721	-171.990364	-1.132809
-0.006444	-0.770949	-128.081216	
0.71833	-12.365721	-171.990364	-1.132809
-0.006444	-0.307697	-84.950769	
0.85916	-12.365721	-171.990364	-1.132809
-0.006444	-0.188555	-62.702148	
1.00000	-12.365721	-171.990364	-1.132809
-0.006444	-0.680915	-82.291411	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 277 ========== LENGTH = 2.977280

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.128663	21.697094	0.375260
1.11E-05	0.209695	5.116991	
0.14084	0.128663	21.697094	0.375260
1.11E-05	0.052247	6.809876	
0.28168	0.128663	21.697094	0.375260
1.11E-05	0.092550	8.561879	
0.42252	0.128663	21.697094	0.375260
1.11E-05	0.231273	10.331010	
0.56336	0.128663	21.697094	0.375260
1.11E-05	0.369982	12.111336	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-5.401607	-4.262110	-0.330817
-1.11E-05	-0.184894	-52.511539	
0.14084	-5.401607	-4.262110	-0.330817
-1.11E-05	-0.046151	-61.506415	
0.28168	-5.401607	-4.262110	-0.330817
-1.11E-05	-0.105019	-70.521174	
0.42252	-5.401607	-4.262110	-0.330817
-1.11E-05	-0.262379	-79.536743	
0.56336	-5.401607	-4.262110	-0.330817
-1.11E-05	-0.419733	-88.583058	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.700288	51.146089	0.613802
0.000305	0.343808	10.816775	
0.14084	0.700288	51.146089	0.613802
0.000305	0.086573	11.253757	
0.28168	0.700288	51.146089	0.613802
0.000305	0.153267	12.823664	
0.42252	0.700288	51.146089	0.613802
0.000305	0.383330	14.874945	
0.56336	0.700288	51.146089	0.613802
0.000305	0.613501	17.242487	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-9.400983	-6.067331	-0.549550
-0.000293	-0.308326	-73.280393	
0.14084	-9.400983	-6.067331	-0.549550
-0.000293	-0.077795	-91.889542	
0.28168	-9.400983	-6.067331	-0.549550
-0.000293	-0.171286	-111.164236	
0.42252	-9.400983	-6.067331	-0.549550
-0.000293	-0.428699	-130.653886	
0.56336	-9.400983	-6.067331	-0.549550
-0.000293	-0.686078	-151.184098	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.731431	100.966284	0.642359
0.000436	0.360114	61.306627	
0.14084	0.731431	100.966284	0.642359
0.000436	0.090537	38.763280	
0.28168	0.731431	100.966284	0.642359
0.000436	0.160262	30.675325	
0.42252	0.731431	100.966284	0.642359
0.000436	0.402065	28.702526	
0.56336	0.731431	100.966284	0.642359
0.000436	0.643866	28.412656	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-12.215170	-5.080711	-0.576666
-0.000457	-0.323378	-64.664039	
0.14084	-12.215170	-5.080711	-0.576666
-0.000457	-0.081388	-78.361487	
0.28168	-12.215170	-5.080711	-0.576666
-0.000457	-0.178603	-93.475705	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.42252	-12.215170	-5.080711	-0.576666
-0.000457	-0.447988	-132.459776	
0.56336	-12.215170	-5.080711	-0.576666
-0.000457	-0.717351	-174.560551	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	5.106028	122.434538	0.757487
0.003921	0.431451	133.658698	
0.14084	5.106028	122.434538	0.757487
0.003921	0.120251	118.116460	
0.28168	5.106028	122.434538	0.757487
0.003921	0.193945	114.531260	
0.42252	5.106028	122.434538	0.757487
0.003921	0.480810	124.922792	
0.56336	5.106028	122.434538	0.757487
0.003921	0.769867	142.592878	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-12.198554	-53.972927	-0.701369
-0.003951	-0.408001	-55.681002	
0.14084	-12.198554	-53.972927	-0.701369
-0.003951	-0.114174	-67.836312	
0.28168	-12.198554	-53.972927	-0.701369
-0.003951	-0.210797	-81.338102	
0.42252	-12.198554	-53.972927	-0.701369
-0.003951	-0.528458	-114.509675	
0.56336	-12.198554	-53.972927	-0.701369
-0.003951	-0.846093	-157.825886	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.706017	41.644820	0.226244
0.000233	0.127194	14.240450	
0.14084	0.706017	41.644820	0.226244
0.000233	0.032246	7.096776	
0.28168	0.706017	41.644820	0.226244
0.000233	0.058047	4.936105	
0.42252	0.706017	41.644820	0.226244
0.000233	0.146154	4.133616	
0.56336	0.706017	41.644820	0.226244
0.000233	0.234262	3.845642	

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.663960 -1.354943 -0.210146
-0.000230 -0.116209 -11.246033
0.14084 -4.663960 -1.354943 -0.210146
-0.000230 -0.030030 -15.590778
0.28168 -4.663960 -1.354943 -0.210146
-0.000230 -0.062531 -30.850954
0.42252 -4.663960 -1.354943 -0.210146
-0.000230 -0.157425 -47.506623
0.56336 -4.663960 -1.354943 -0.210146
-0.000230 -0.252294 -64.707360

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.359364 136.044136 0.337764
0.005281 0.199672 142.792336
0.14084 1.359364 136.044136 0.337764
0.005281 0.066950 95.315985
0.28168 1.359364 136.044136 0.337764
0.005281 0.087652 63.448275
0.42252 1.359364 136.044136 0.337764
0.005281 0.213326 50.431246
0.56336 1.359364 136.044136 0.337764
0.005281 0.341990 47.312995

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.817998 -8.555737 -0.323301
-0.005316 -0.202290 -10.737597
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2979

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 -9.817998 -8.555737 -0.323301
-0.005316 -0.067236 -15.195346
0.28168 -9.817998 -8.555737 -0.323301
-0.005316 -0.093276 -21.480840
0.42252 -9.817998 -8.555737 -0.323301
-0.005316 -0.234929 -53.890853
0.56336 -9.817998 -8.555737 -0.323301
-0.005316 -0.376566 -100.007410

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.384952 141.116776 0.590426
0.004762 0.339797 131.819776
0.14084 1.384952 141.116776 0.590426
0.004762 0.100265 90.192074
0.28168 1.384952 141.116776 0.590426
0.004762 0.149889 62.663570
0.42252 1.384952 141.116776 0.590426
0.004762 0.369505 52.142667
0.56336 1.384952 141.116776 0.590426
0.004762 0.591813 50.546374

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.852097 -10.638185 -0.545046
-0.004795 -0.324194 -47.590210
0.14084 -12.852097 -10.638185 -0.545046
-0.004795 -0.096120 -59.243626
0.28168 -12.852097 -10.638185 -0.545046
-0.004795 -0.251991 -72.717025
0.42252 -12.852097 -10.638185 -0.545046
-0.004795 -0.411611 -109.946985
0.56336 -12.852097 -10.638185 -0.545046
-0.004795 -0.659192 -159.192799

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.704713 112.519872 0.792780
0.003454 0.450134 118.584413
0.14084 7.704713 112.519872 0.792780
0.003454 0.122912 114.560258
0.28168 7.704713 112.519872 0.792780
0.003454 0.206156 122.799691
0.42252 7.704713 112.519872 0.792780
0.003454 0.512876 143.353888
0.56336 7.704713 112.519872 0.792780
0.003454 0.821359 170.085644

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.445242 -74.309756 -0.745438
-0.003482 -0.430138 -42.489071
0.14084 -10.445242 -74.309756 -0.745438
-0.003482 -0.117841 -53.122606
0.28168 -10.445242 -74.309756 -0.745438
-0.003482 -0.220387 -65.158375
0.42252 -10.445242 -74.309756 -0.745438
-0.003482 -0.552849 -97.203950
0.56336 -10.445242 -74.309756 -0.745438
-0.003482 -0.885281 -137.802760

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.784798 5.521609 0.520453
0.000535 0.291266 3.052193
0.14084 9.784798 5.521609 0.520453
0.000535 0.073369 23.835128
0.28168 9.784798 5.521609 0.520453
0.000535 0.142349 58.131651
0.42252 9.784798 5.521609 0.520453
0.000535 0.391066 92.679503
0.56336 9.784798 5.521609 0.520453
0.000535 0.571784 127.348899
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2980

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.122098 -82.953868 -0.512086
-0.000527 -0.287134 -12.854810
0.14084 -0.122098 -82.953868 -0.512086
-0.000527 -0.072334 -6.875374
0.28168 -0.122098 -82.953868 -0.512086
-0.000527 -0.144828 -8.375908
0.42252 -0.122098 -82.953868 -0.512086
-0.000527 -0.363069 -10.057066
0.56336 -0.122098 -82.953868 -0.512086
-0.000527 -0.581306 -12.133681

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.117999 87.102111 0.692638
0.006489 0.399569 125.066606
0.14084 12.117999 87.102111 0.692638
0.006489 0.120138 131.047649
0.28168 12.117999 87.102111 0.692638
0.006489 0.190407 142.889251
0.42252 12.117999 87.102111 0.692638
0.006489 0.467456 172.069842
0.56336 12.117999 87.102111 0.692638
0.006489 0.748203 212.157190

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.377242 -109.791386 -0.689576
-0.006528 -0.410907 -6.813090
0.14084 -4.377242 -109.791386 -0.689576
-0.006528 -0.122454 -9.095290
0.28168 -4.377242 -109.791386 -0.689576
-0.006528 -0.192910 -11.448622
0.42252 -4.377242 -109.791386 -0.689576
-0.006528 -0.483392 -15.963141
0.56336 -4.377242 -109.791386 -0.689576
-0.006528 -0.773835 -37.703119

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.200664 114.338496 0.749300
0.004861 0.428488 123.423163
0.14084 11.200664 114.338496 0.749300
0.004861 0.121782 119.410633
0.28168 11.200664 114.338496 0.749300
0.004861 0.201678 130.262302
0.42252 11.200664 114.338496 0.749300
0.004861 0.500472 157.330551
0.56336 11.200664 114.338496 0.749300
0.004861 0.801769 192.769365

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.523084 -98.331836 -0.732301
-0.004909 -0.428172 -7.609433
0.14084 -7.523084 -98.331836 -0.732301
-0.004909 -0.121548 -9.799790
0.28168 -7.523084 -98.331836 -0.732301
-0.004909 -0.207907 -13.931680
0.42252 -7.523084 -98.331836 -0.732301
-0.004909 -0.522113 -42.103802
0.56336 -7.523084 -98.331836 -0.732301
-0.004909 -0.836310 -81.067067

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.725681 113.959656 0.848438
0.004060 0.482427 104.508761
0.14084 9.725681 113.959656 0.848438
0.004060 0.132771 102.193342
0.28168 9.725681 113.959656 0.848438
0.004060 0.224128 112.160495
0.42252 9.725681 113.959656 0.848438
0.004060 0.557476 135.581838
0.56336 9.725681 113.959656 0.848438
0.004060 0.892895 165.956467
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2981

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.519229 -83.894595 -0.811289
-0.004093 -0.469255 -32.876544
0.14084 -9.519229 -83.894595 -0.811289
-0.004093 -0.129369 -42.206393
0.28168 -9.519229 -83.894595 -0.811289
-0.004093 -0.235723 -52.947833
0.42252 -9.519229 -83.894595 -0.811289
-0.004093 -0.591514 -83.452170
0.56336 -9.519229 -83.894595 -0.811289
-0.004093 -0.947285 -123.551679

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.161975 26.440036 0.474709
8.24E-06 0.264943 6.466916
0.14084 0.161975 26.440036 0.474709
8.24E-06 0.066889 8.598825
0.28168 0.161975 26.440036 0.474709
8.24E-06 0.129726 10.806269
0.42252 0.161975 26.440036 0.474709
8.24E-06 0.324932 13.025223
0.56336 0.161975 26.440036 0.474709
8.24E-06 0.519207 15.252466

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.019856 -5.326034 -0.463787
-8.27E-06 -0.259157 -60.123166
0.14084 -6.019856 -5.326034 -0.463787
-8.27E-06 -0.063899 -71.083320
0.28168 -6.019856 -5.326034 -0.463787
-8.27E-06 -0.132796 -82.099868
0.42252 -6.019856 -5.326034 -0.463787
-8.27E-06 -0.331757 -93.150366
0.56336 -6.019856 -5.326034 -0.463787
-8.27E-06 -0.530747 -104.219484

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.778731 57.807916 0.774978
0.000230 0.432164 11.680535
0.14084 0.778731 57.807916 0.774978
0.000230 0.108543 12.850971
0.28168 0.778731 57.807916 0.774978
0.000230 0.204431 15.210053
0.42252 0.778731 57.807916 0.774978
0.000230 0.513229 17.967955
0.56336 0.778731 57.807916 0.774978
0.000230 0.820634 20.951665

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.538417 -7.398390 -0.734713
-0.000226 -0.412293 -82.328317
0.14084 -9.538417 -7.398390 -0.734713
-0.000226 -0.104270 -103.566250
0.28168 -9.538417 -7.398390 -0.734713
-0.000226 -0.218107 -125.878284
0.42252 -9.538417 -7.398390 -0.734713
-0.000226 -0.542611 -149.103192
0.56336 -9.538417 -7.398390 -0.734713
-0.000226 -0.867456 -172.925979

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.916360 102.128688 0.815665
0.000371 0.453758 73.664305
0.14084 0.916360 102.128688 0.815665
0.000371 0.113163 53.885061
0.28168 0.916360 102.128688 0.815665
0.000371 0.214342 40.443223
0.42252 0.916360 102.128688 0.815665
0.000371 0.537813 35.906834
0.56336 0.916360 102.128688 0.815665
0.000371 0.859771 35.159269
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2982

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.740226 -7.213282 -0.769268
-0.000391 -0.430955 -72.455278
0.14084 -11.740226 -7.213282 -0.769268
-0.000391 -0.108426 -89.317277
0.28168 -11.740226 -7.213282 -0.769268
-0.000391 -0.230422 -107.872377
0.42252 -11.740226 -7.213282 -0.769268
-0.000391 -0.571694 -144.518630
0.56336 -11.740226 -7.213282 -0.769268
-0.000391 -0.913321 -184.316223

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.910713 115.539707 1.006591
0.003067 0.575258 139.856649
0.14084 4.910713 115.539707 1.006591
0.003067 0.154616 130.237352
0.28168 4.910713 115.539707 1.006591
0.003067 0.268602 125.834665
0.42252 4.910713 115.539707 1.006591
0.003067 0.667575 135.003930
0.56336 4.910713 115.539707 1.006591
0.003067 1.071946 152.438652

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.488105 -54.096139 -0.970992
-0.003100 -0.557044 -62.383263
0.14084 -11.488105 -54.096139 -0.970992
-0.003100 -0.150236 -77.331115
0.28168 -11.488105 -54.096139 -0.970992
-0.003100 -0.280314 -93.849114
0.42252 -11.488105 -54.096139 -0.970992
-0.003100 -0.699021 -125.134519
0.56336 -11.488105 -54.096139 -0.970992
-0.003100 -1.119584 -166.736118

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.729868 40.407348 0.282149
0.000204 0.156355 15.446861
0.14084 0.729868 40.407348 0.282149
0.000204 0.039616 6.944052
0.28168 0.729868 40.407348 0.282149
0.000204 0.069366 4.372579
0.42252 0.729868 40.407348 0.282149
0.000204 0.174080 3.721362
0.56336 0.729868 40.407348 0.282149
0.000204 0.279145 3.712568

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.924989 -1.313014 -0.250107
-0.000207 -0.140819 -11.513757
0.14084 -3.924989 -1.313014 -0.250107
-0.000207 -0.036977 -16.809688
0.28168 -3.924989 -1.313014 -0.250107
-0.000207 -0.081022 -30.305805
0.42252 -3.924989 -1.313014 -0.250107
-0.000207 -0.198860 -46.239792
0.56336 -3.924989 -1.313014 -0.250107
-0.000207 -0.317235 -62.811831

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.490126 123.222718 0.448986
0.004528 0.269778 147.351415
0.14084 1.490126 123.222718 0.448986
0.004528 0.083177 106.018047
0.28168 1.490126 123.222718 0.448986
0.004528 0.116041 71.505136
0.42252 1.490126 123.222718 0.448986
0.004528 0.280829 56.456957
0.56336 1.490126 123.222718 0.448986
0.004528 0.456034 53.138289
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2983

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.431867 -9.244325 -0.425673
-0.004563 -0.256619 -10.458979
0.14084 -8.431867 -9.244325 -0.425673
-0.004563 -0.081530 -15.434729
0.28168 -8.431867 -9.244325 -0.425673
-0.004563 -0.125899 -23.465690
0.42252 -8.431867 -9.244325 -0.425673
-0.004563 -0.308601 -50.447743
0.56336 -8.431867 -9.244325 -0.425673
-0.004563 -0.495142 -92.431157

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.596014 133.942534 0.764074
0.004085 0.443858 136.991132
0.14084 1.596014 133.942534 0.764074
0.004085 0.125001 101.098458
0.28168 1.596014 133.942534 0.764074
0.004085 0.199357 71.392392
0.42252 1.596014 133.942534 0.764074
0.004085 0.597348 57.923161
0.56336 1.596014 133.942534 0.764074
0.004085 0.793488 57.923161

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.793466 -11.977795 -0.726283
-0.004118 -0.425416 -52.096154
0.14084 -11.793466 -11.977795 -0.726283
-0.004118 -0.121801 -65.891201
0.28168 -11.793466 -11.977795 -0.726283
-0.004118 -0.214111 -82.732405
0.42252 -11.793466 -11.977795 -0.726283
-0.004118 -0.529177 -116.516270
0.56336 -11.793466 -11.977795 -0.726283
-0.004118 -0.847851 -163.818957

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.320348 106.379923 1.068663
0.002723 0.609397 125.231585
0.14084 7.320348 106.379923 1.068663
0.002723 0.161816 125.723979
0.28168 7.320348 106.379923 1.068663
0.002723 0.283367 131.458796
0.42252 7.320348 106.379923 1.068663
0.002723 0.706705 150.113954
0.56336 7.320348 106.379923 1.068663
0.002723 1.135245 176.046889

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.528881 -73.376612 -1.026502
-0.002758 -0.586526 -46.795570
0.14084 -9.528881 -73.376612 -1.026502
-0.002758 -0.156823 -59.442651
0.28168 -9.528881 -73.376612 -1.026502
-0.002758 -0.297020 -74.465413
0.42252 -9.528881 -73.376612 -1.026502
-0.002758 -0.742200 -104.048395
0.56336 -9.528881 -73.376612 -1.026502
-0.002758 -1.189355 -142.550650

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.143205 6.323572 0.742601
0.000433 0.418728 3.614707
0.14084 9.143205 6.323572 0.742601
0.000433 0.106575 23.136231
0.28168 9.143205 6.323572 0.742601
0.000433 0.201222 56.596656
0.42252 9.143205 6.323572 0.742601
0.000433 0.505643 90.504705
0.56336 9.143205 6.323572 0.742601
0.000433 0.810338 124.613557
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2984

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.127070 -81.785537 -0.726628
-0.000432 -0.407537 -19.164847
0.14084 -0.127070 -81.785537 -0.726628
-0.000432 -0.103046 -9.040672
0.28168 -0.127070 -81.785537 -0.726628
-0.000432 -0.203848 -10.744341
0.42252 -0.127070 -81.785537 -0.726628
-0.000432 -0.515891 -12.821039
0.56336 -0.127070 -81.785537 -0.726628
-0.000432 -0.827085 -15.307837

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.299391 84.380216 1.010804
0.006374 0.597830 134.772672
0.14084 11.299391 84.380216 1.010804
0.006374 0.173556 139.725371
0.28168 11.299391 84.380216 1.010804
0.006374 0.276787 151.171546
0.42252 11.299391 84.380216 1.010804
0.006374 0.680623 177.286553
0.56336 11.299391 84.380216 1.010804
0.006374 1.099245 215.978037

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.289482 -106.916197 -1.009694
-0.006400 -0.594047 -10.983874
0.14084 -4.289482 -106.916197 -1.009694
-0.006400 -0.171394 -11.092533
0.28168 -4.289482 -106.916197 -1.009694
-0.006400 -0.275124 -13.992309
0.42252 -4.289482 -106.916197 -1.009694
-0.006400 -0.692796 -19.167992
0.56336 -4.289482 -106.916197 -1.009694
-0.006400 -1.114050 -43.975559

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.486300 108.756535 1.056608
0.004909 0.614350 137.968210
0.14084 10.486300 108.756535 1.056608
0.004909 0.171243 132.986606
0.28168 10.486300 108.756535 1.056608
0.004909 0.283580 136.695683
0.42252 10.486300 108.756535 1.056608
0.004909 0.701765 159.081739
0.56336 10.486300 108.756535 1.056608
0.004909 1.130723 192.536607

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.770987 -95.492381 -1.031204
-0.004944 -0.598547 -9.911447
0.14084 -6.770987 -95.492381 -1.031204
-0.004944 -0.167151 -10.699657
0.28168 -6.770987 -95.492381 -1.031204
-0.004944 -0.290993 -17.190194
0.42252 -6.770987 -95.492381 -1.031204
-0.004944 -0.729362 -39.071518
0.56336 -6.770987 -95.492381 -1.031204
-0.004944 -1.170317 -75.445039

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.202543 112.674725 1.162819
0.004106 0.669091 117.255551
0.14084 9.202543 112.674725 1.162819
0.004106 0.182029 114.328534
0.28168 9.202543 112.674725 1.162819
0.004106 0.308671 118.524205
0.42252 9.202543 112.674725 1.162819
0.004106 0.767129 138.173406
0.56336 9.202543 112.674725 1.162819
0.004106 1.234361 167.050360
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
2985

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.802162 -81.981872 -1.120870
-0.004133 -0.645750 -37.258149
0.14084 -8.802162 -81.981872 -1.120870
-0.004133 -0.176804 -46.816264
0.28168 -8.802162 -81.981872 -1.120870
-0.004133 -0.322272 -60.866389
0.42252 -8.802162 -81.981872 -1.120870
-0.004133 -0.805734 -88.089666
0.56336 -8.802162 -81.981872 -1.120870
-0.004133 -1.291758 -127.468351

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.117999 141.116776 0.848438
0.006489 0.482427 142.792336
0.14084 12.117999 141.116776 0.848438
0.006489 0.132771 131.047649
0.28168 12.117999 141.116776 0.848438
0.006489 0.224128 142.889251
0.42252 12.117999 141.116776 0.848438
0.006489 0.557476 172.069842
0.56336 12.117999 141.116776 0.848438
0.006489 0.892895 212.157190

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.852097 -109.791386 -0.811289
-0.006528 -0.469255 -73.280393
0.14084 -12.852097 -109.791386 -0.811289
-0.006528 -0.129369 -91.889542

```
 0.28168   -12.852097  -109.791386    -0.811289
-0.006528   -0.235723  -111.164236
 0.42252   -12.852097  -109.791386    -0.811289
-0.006528   -0.591514  -132.459776
 0.56336   -12.852097  -109.791386    -0.811289
-0.006528   -0.947285  -174.560551

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   11.299391   133.942534    1.162819
 0.006374   0.669091   147.351415
 0.14084   11.299391   133.942534    1.162819
 0.006374   0.182029   139.725371
 0.28168   11.299391   133.942534    1.162819
 0.006374   0.308671   151.171546
 0.42252   11.299391   133.942534    1.162819
 0.006374   0.767129   177.286553
 0.56336   11.299391   133.942534    1.162819
 0.006374   1.234361   215.978037

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -11.793466  -106.916197    -1.120870
-0.006400   -0.645750   -82.328317
 0.14084   -11.793466  -106.916197    -1.120870
-0.006400   -0.176804  -103.566250
 0.28168   -11.793466  -106.916197    -1.120870
-0.006400   -0.322272  -125.878284
 0.42252   -11.793466  -106.916197    -1.120870
-0.006400   -0.805734  -149.103192
 0.56336   -11.793466  -106.916197    -1.120870
-0.006400   -1.291758  -184.316223

COMB      CAR ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   12.117999   141.116776    1.162819
 0.006489   0.669091   147.351415
 0.14084   12.117999   141.116776    1.162819
 0.006489   0.182029   139.725371
 0.28168   12.117999   141.116776    1.162819
 0.006489   0.308671   151.171546
 0.42252   12.117999   141.116776    1.162819
 0.006489   0.767129   177.286553
 0.56336   12.117999   141.116776    1.162819
 0.006489   1.234361   215.978037
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    2986

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -12.852097  -109.791386    -1.120870
-0.006528   -0.645750   -82.328317
 0.14084   -12.852097  -109.791386    -1.120870
-0.006528   -0.176804  -103.566250
 0.28168   -12.852097  -109.791386    -1.120870
-0.006528   -0.322272  -125.878284
 0.42252   -12.852097  -109.791386    -1.120870
-0.006528   -0.805734  -149.103192
 0.56336   -12.852097  -109.791386    -1.120870
-0.006528   -1.291758  -184.316223

COMB      DESIGN ---------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   12.117999   141.116776    1.162819
 0.006489   0.669091   147.351415
 0.14084   12.117999   141.116776    1.162819
 0.006489   0.182029   139.725371
 0.28168   12.117999   141.116776    1.162819
 0.006489   0.308671   151.171546
 0.42252   12.117999   141.116776    1.162819
 0.006489   0.767129   177.286553
 0.56336   12.117999   141.116776    1.162819
 0.006489   1.234361   215.978037

COMB      DESIGN ---------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -12.852097  -109.791386    -1.120870
-0.006528   -0.645750   -82.328317
 0.14084   -12.852097  -109.791386    -1.120870
-0.006528   -0.176804  -103.566250
 0.28168   -12.852097  -109.791386    -1.120870
-0.006528   -0.322272  -125.878284
 0.42252   -12.852097  -109.791386    -1.120870
-0.006528   -0.805734  -149.103192
 0.56336   -12.852097  -109.791386    -1.120870
-0.006528   -1.291758  -184.316223

ELEM      278 ================= LENGTH
=      2.976714

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   0.393952   18.508936    0.405572
 1.43E-05  0.450260   1.758429
 0.57754   0.393952   18.508936    0.405572
 1.43E-05  0.280253   1.186945
 0.71836   0.393952   18.508936    0.405572
 1.43E-05  0.110263   2.417212
 0.85918   0.393952   18.508936    0.405572
 1.43E-05  0.056143   4.775039
 1.00000   0.393952   18.508936    0.405572
 1.43E-05  0.215563   7.508170

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -4.850834   -7.224469    -0.380251
-0.000626  -0.422025  -20.993091
 0.57754   -4.850834   -7.224469    -0.380251
-0.000626  -0.262632  -28.106793
 0.71836   -4.850834   -7.224469    -0.380251
-0.000626  -0.103219  -35.220371
 0.85918   -4.850834   -7.224469    -0.380251
-0.000626  -0.059739  -42.512480
 1.00000   -4.850834   -7.224469    -0.380251
-0.000626  -0.229768  -49.852760

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   1.385522   44.323948    0.661555
 0.000345  0.734167   30.430173
 0.57754   1.385522   44.323948    0.661555
 0.000345  0.456861   21.467701
 0.71836   1.385522   44.323948    0.661555
 0.000345  0.180212   15.142773
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    2987

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.85918   1.385522   44.323948    0.661555
 0.000345  0.092467   11.502742
 1.00000   1.385522   44.323948    0.661555
 0.000345  0.354136   14.108050

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -8.873243  -12.361188    -0.624575
-0.001341   -0.693530  -26.093442
 0.57754   -8.873243  -12.361188    -0.624575
-0.001341   -0.431722  -33.862132
 0.71836   -8.873243  -12.361188    -0.624575
-0.001341   -0.169871  -44.049154
 0.85918   -8.873243  -12.361188    -0.624575
-0.001341   -0.097683  -56.879809
 1.00000   -8.873243  -12.361188    -0.624575
-0.001341   -0.375103  -70.544681

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   1.296416   96.166565    0.732932
 7.16E-05  0.813587   174.461069
 0.57754   1.296416   96.166565    0.732932
 7.16E-05  0.506357   142.787426
 0.71836   1.296416   96.166565    0.732932
 7.16E-05  0.199123   113.070845
 0.85918   1.296416   96.166565    0.732932
 7.16E-05  0.095931   85.204216
 1.00000   1.296416   96.166565    0.732932
 7.16E-05  0.371408   61.233794

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -11.988765  -9.010692    -0.656662
-0.001024   -0.729687  -23.329834
 0.57754   -11.988765  -9.010692    -0.656662
-0.001024   -0.454424  -31.195021
 0.71836   -11.988765  -9.010692    -0.656662
-0.001024   -0.179162  -40.298846
 0.85918   -11.988765  -9.010692    -0.656662
-0.001024   -0.107944  -51.156726
 1.00000   -11.988765  -9.010692    -0.656662
-0.001024   -0.415332  -62.544752

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   7.833929   85.211758    0.830271
 0.003970   0.908750   162.564834
 0.57754   7.833929   85.211758    0.830271
 0.003970   0.560723   136.934803
 0.71836   7.833929   85.211758    0.830271
 0.003970   0.225804   120.556942
 0.85918   7.833929   85.211758    0.830271
 0.003970   0.122801   118.611683
 1.00000   7.833929   85.211758    0.830271
 0.003970   0.431857   132.000300

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -10.465407  -92.552903    -0.749168
-0.004443   -0.832574  -81.902235
 0.57754   -10.465407  -92.552903    -0.749168
-0.004443   -0.518539  -57.490696
 0.71836   -10.465407  -92.552903    -0.749168
-0.004443   -0.204471  -46.206880
 0.85918   -10.465407  -92.552903    -0.749168
-0.004443   -0.136422  -43.996776
 1.00000   -10.465407  -92.552903    -0.749168
-0.004443   -0.484226  -54.698163

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   1.180523   39.702628    0.240936
 0.000220  0.268120   70.546396
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    2988

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.57754   1.180523   39.702628    0.240936
 0.000220  0.167125   54.341766
 0.71836   1.180523   39.702628    0.240936
 0.000220  0.066135   38.600587
 0.85918   1.180523   39.702628    0.240936
 0.000220  0.033808   23.552853
 1.00000   1.180523   39.702628    0.240936
 0.000220  0.131611   14.190803

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -4.888408   -2.513277    -0.233175
-0.000527   -0.259384   -5.515544
 0.57754   -4.888408   -2.513277    -0.233175
-0.000527   -0.161643   -4.693324
 0.71836   -4.888408   -2.513277    -0.233175
-0.000527   -0.063879   -5.312084
 0.85918   -4.888408   -2.513277    -0.233175
-0.000527   -0.034796   -8.206810
 1.00000   -4.888408   -2.513277    -0.233175
-0.000527   -0.135875   -11.837610

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   5.139392   87.324731    0.413867
 0.004934   0.441107   210.118714
 0.57754   5.139392   87.324731    0.413867
 0.004934   0.267622   176.233436
 0.71836   5.139392   87.324731    0.413867
 0.004934   0.112128   152.517534
 0.85918   5.139392   87.324731    0.413867
 0.004934   0.026582   143.564324
 1.00000   5.139392   87.324731    0.413867
 0.004934   0.199068   138.692841

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -7.828619   -60.686740   -0.332958
-0.005150   -0.370544   -24.534328
 0.57754   -7.828619   -60.686740   -0.332958
-0.005150   -0.230971   -5.713951
 0.71836   -7.828619   -60.686740   -0.332958
-0.005150   -0.091396   -4.772669
 0.85918   -7.828619   -60.686740   -0.332958
-0.005150   -0.080958   -7.818458
 1.00000   -7.828619   -60.686740   -0.332958
-0.005150   -0.253986   -11.621676

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   4.899147   94.608368    0.681014
 0.004444   0.739536   188.566959
 0.57754   4.899147   94.608368    0.681014
 0.004444   0.454069   157.751746
 0.71836   4.899147   94.608368    0.681014
 0.004444   0.184844   137.527101
 0.85918   4.899147   94.608368    0.681014
 0.004444   0.102881   131.946527
 1.00000   4.899147   94.608368    0.681014
 0.004444   0.344240   129.571381

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -10.792300  -59.822399    -0.590897
-0.005140   -0.656754  -31.355032
 0.57754   -10.792300  -59.822399    -0.590897
-0.005140   -0.409062  -21.496554
 0.71836   -10.792300  -59.822399    -0.590897
-0.005140   -0.161369  -27.537714
 0.85918   -10.792300  -59.822399    -0.590897
-0.005140   -0.118243  -36.832579
 1.00000   -10.792300  -59.822399    -0.590897
-0.005140   -0.403375  -46.706361
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    2989

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   9.825786   83.328840    0.849721
 0.003509   0.933164   161.345982
 0.57754   9.825786   83.328840    0.849721
 0.003509   0.576982   134.092476
 0.71836   9.825786   83.328840    0.849721
 0.003509   0.231437   114.586575
 0.85918   9.825786   83.328840    0.849721
 0.003509   0.124726   106.335617
 1.00000   9.825786   83.328840    0.849721
 0.003509   0.447986   116.407502

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -9.267823  -103.452939    -0.781009
-0.003658   -0.868259  -108.637045
 0.57754   -9.267823  -103.452939    -0.781009
-0.003658   -0.540877   -76.941208
 0.71836   -9.267823  -103.452939    -0.781009
-0.003658   -0.213498   -55.846794
 0.85918   -9.267823  -103.452939    -0.781009
-0.003658   -0.136255   -37.161232
 1.00000   -9.267823  -103.452939    -0.781009
-0.003658   -0.492250   -42.962091

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   9.316635   8.723679    0.498342
 0.000830   0.554364   9.986896
 0.57754   9.316635   8.723679    0.498342
 0.000830   0.345470   6.651168
 0.71836   9.316635   8.723679    0.498342
 0.000830   0.136591   4.167659
 0.85918   9.316635   8.723679    0.498342
 0.000830   0.072900   3.662798
 1.00000   9.316635   8.723679    0.498342
 0.000830   0.283679   3.162387

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -0.192655  -77.123157    -0.502616
-0.000132   -0.559079  -141.306118
 0.57754   -0.192655  -77.123157    -0.502616
-0.000132   -0.348393  -109.016654
 0.71836   -0.192655  -77.123157    -0.502616
-0.000132   -0.137689   -76.754577
 0.85918   -0.192655  -77.123157    -0.502616
-0.000132   -0.072235  -41.500447
 1.00000   -0.192655  -77.123157    -0.502616
-0.000132   -0.281214  -12.302733

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   15.711571   33.588089    0.698529
 0.006871   0.754699   88.397359
 0.57754   15.711571   33.588089    0.698529
 0.006871   0.461890   77.699072
 0.71836   15.711571   33.588089    0.698529
 0.006871   0.190982   79.530489
 0.85918   15.711571   33.588089    0.698529
 0.006871   0.115864   100.671757
 1.00000   15.711571   33.588089    0.698529
 0.006871   0.376833   122.729065

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -1.739553  -165.772698    -0.643239
-0.005962   -0.715458  -182.271457
 0.57754   -1.739553  -165.772698    -0.643239
-0.005962   -0.445822  -120.851105
 0.71836   -1.739553  -165.772698    -0.643239
-0.005962   -0.176141   -79.668820
 0.85918   -1.739553  -165.772698    -0.643239
-0.005962   -0.125644   -41.008964
 1.00000   -1.739553  -165.772698    -0.643239
-0.005962   -0.417941   -9.589174
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    2990

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   13.722378   77.463920    0.785185
 0.004935   0.857307   185.361687
 0.57754   13.722378   77.463920    0.785185
 0.004935   0.528175   155.369584
 0.71836   13.722378   77.463920    0.785185
 0.004935   0.214070   134.112411
 0.85918   13.722376   77.463920    0.785185
 0.004935   0.124025   126.296121
 1.00000   13.722378   77.463920    0.785185
 0.004935   0.418445   119.753822

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -5.973621  -135.400321    -0.725063
-0.004288   -0.806735  -162.965650
 0.57754   -5.973621  -135.400321    -0.725063
-0.004288   -0.502804  -111.615847
 0.71836   -5.973621  -135.400321    -0.725063
-0.004288   -0.198862   -74.192299
 0.85918   -5.973621  -135.400321    -0.725063
-0.004288   -0.131351   -38.563208
 1.00000   -5.973621  -135.400321    -0.725063
-0.004288   -0.460189   -10.598641

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   12.135441   81.437804    0.896420
 0.004136   0.983527   163.147581
 0.57754   12.135441   81.437804    0.896420
 0.004136   0.607767   133.991239
 0.71836   12.135441   81.437804    0.896420
 0.004136   0.244426   114.105235
 0.85918   12.135441   81.437804    0.896420
 0.004136   0.133904   106.397377
 1.00000   12.135441   81.437804    0.896420
 0.004136   0.478264   102.391713

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -8.188641  -116.075770    -0.833120
-0.003991   -0.926476  -140.211049
 0.57754   -8.188641  -116.075770    -0.833120
-0.003991   -0.577246  -101.404951
 0.71836   -8.188641  -116.075770    -0.833120
-0.003991   -0.228007   -75.031319
 0.85918   -8.188641  -116.075770    -0.833120
-0.003991   -0.144729   -51.422895
 1.00000   -8.188641  -116.075770    -0.833120
-0.003991   -0.520311   -34.639541

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   0.413473   22.893360    0.601027
 1.02E-05  0.666919   1.895833
 0.57754   0.413473   22.893360    0.601027
 1.02E-05  0.414880   1.292301
 0.71836   0.413473   22.893360    0.601027
 1.02E-05  0.163133   2.810978
 0.85918   0.413473   22.893360    0.601027
 1.02E-05  0.074045   6.092287
 1.00000   0.413473   22.893360    0.601027
 1.02E-05  0.285752   9.625733

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -5.073891  -9.083382    -0.503384
-0.000546  -0.558837  -25.255436
 0.57754   -5.073891  -9.083382    -0.503384
-0.000546  -0.347578  -31.510284
 0.71836   -5.073891  -9.083382    -0.503384
-0.000546  -0.136151  -39.234339
 0.85918   -5.073891  -9.083382    -0.503384
-0.000546  -0.088359  -48.411487
 1.00000   -5.073891  -9.083382    -0.503384
-0.000546  -0.339975  -57.681060
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    2991

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   1.180370   50.981661    1.012521
 0.000262  1.123899   32.319881
 0.57754   1.180370   50.981661    1.012521
 0.000262  0.699264   22.422446
 0.71836   1.180370   50.981661    1.012521
 0.000262  0.275475   15.551041
 0.85918   1.180370   50.981661    1.012521
 0.000262  0.118600   12.716257
 1.00000   1.180370   50.981661    1.012521
 0.000262  0.455652   15.628513

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -9.054435  -14.019924   -0.802983
-0.001103   -0.890688  -30.238403
 0.57754   -9.054435  -14.019924   -0.802983
-0.001103   -0.553999  -37.702501
 0.71836   -9.054435  -14.019924   -0.802983
-0.001103   -0.217047  -48.620725
 0.85918   -9.054435  -14.019924   -0.802983
-0.001103   -0.149106  -62.744430
 1.00000   -9.054435  -14.019924   -0.802983
-0.001103   -0.573200  -79.897541

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   1.264797   96.430759    1.097609
 8.37E-05  1.219163   176.251621
 0.57754   1.264797   96.430759    1.097609
 8.37E-05  0.759062   146.336435
 0.71836   1.264797   96.430759    1.097609
 8.37E-05  0.299266   118.851022
 0.85918   1.264797   96.430759    1.097609
 8.37E-05  0.118936   94.553561
 1.00000   1.264797   96.430759    1.097609
 8.37E-05  0.457557   74.294183

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -11.555900  -12.085934   -0.806127
-0.000902   -0.894221  -27.445818
 0.57754   -11.555900  -12.085934   -0.806127
-0.000902   -0.556264  -34.497913
 0.71836   -11.555900  -12.085934   -0.806127
-0.000902   -0.217813  -43.961097
 0.85918   -11.555900  -12.085934   -0.806127
-0.000902   -0.161245  -56.183880
 1.00000   -11.555900  -12.085934   -0.806127
-0.000902   -0.620946  -70.482405

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   6.864491   86.579625    1.243310
 0.003142  1.370966   168.142696
 0.57754   6.864491   86.579625    1.243310
 0.003142  0.949904   143.276593
 0.71836   6.864491   86.579625    1.243310
 0.003142  0.339798   127.295344
 0.85918   6.864491   86.579625    1.243310
 0.003142  0.150796   126.704309
 1.00000   6.864491   86.579625    1.243310
 0.003142  0.543407   139.076310

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -9.953683  -83.840724   -0.936730
-0.003550  -1.034197  -78.308169
 0.57754   -9.953683  -83.840724   -0.936730
-0.003550  -0.642614  -55.376154
 0.71836   -9.953683  -83.840724   -0.936730
-0.003550  -0.253052  -46.914748
 0.85918   -9.953683  -83.840724   -0.936730
-0.003550  -0.193528  -48.276268
 1.00000   -9.953683  -83.840724   -0.936730
-0.003550  -0.714283  -61.605555
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    2992

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   0.898610   38.101127    0.397275
 0.000208  0.441593   69.407011
 0.57754   0.898610   38.101127    0.397275
 0.000208  0.275073   53.873323
 0.71836   0.898610   38.101127    0.397275
 0.000208  0.108708   38.845496
 0.85918   0.898610   38.101127    0.397275
 0.000208  0.040009   25.145066
 1.00000   0.898610   38.101127    0.397275
 0.000208  0.153074   15.232157

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43672   -4.628023  -2.730767    -0.270831
-0.000429   -0.299893   -5.055817
 0.57754   -4.628023  -2.730767    -0.270831
-0.000429   -0.186248   -4.783224
```

```
0.71836   -4.628023   -2.730767   -0.270831
-0.000429   -0.073221   -5.629362
0.85918   -4.628023   -2.730767   -0.270831
-0.000429   -0.056327   -7.504001
1.00000   -4.628023   -2.730767   -0.270831
-0.000429   -0.224453   -11.373175

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672    4.421187   81.795370    0.620309
 0.004270   0.671170  213.489619
0.57754    4.421187   81.795370    0.620309
 0.004270   0.411114  181.827099
0.71836    4.421187   81.795370    0.620309
 0.004270   0.168621  159.576415
0.85918    4.421187   81.795370    0.620309
 0.004270   0.077034  149.725137
1.00000    4.421187   81.795370    0.620309
 0.004270   0.236129  143.687368

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -7.038318   -52.601748   -0.381847
-0.004448   -0.414097   -24.638734
0.57754   -7.038318   -52.601748   -0.381847
-0.004448   -0.255938   -5.547637
0.71836   -7.038318   -52.601748   -0.381847
-0.004448   -0.110318   -4.985741
0.85918   -7.038318   -52.601748   -0.381847
-0.004448   -0.110496   -7.091163
1.00000   -7.038318   -52.601748   -0.381847
-0.004448   -0.369862   -11.249116

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672    4.282391   93.740715    1.028315
 0.003847   1.125940  191.065636
0.57754    4.282391   93.740715    1.028315
 0.003847   0.694681  162.571249
0.71836    4.282391   93.740715    1.028315
 0.003847   0.279473  144.037100
0.85918    4.282391   93.740715    1.028315
 0.003847   0.125191  138.491292
1.00000    4.282391   93.740715    1.028315
 0.003847   0.428142  135.658044

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -10.176363   -53.834263   -0.723300
-0.004449   -0.793835   -32.993972
0.57754   -10.176363   -53.834263   -0.723300
-0.004449   -0.482589   -22.197882
0.71836   -10.176363   -53.834263   -0.723300
-0.004449   -0.193791   -28.980448
0.85918   -10.176363   -53.834263   -0.723300
-0.004449   -0.168373   -39.413613
1.00000   -10.176363   -53.834263   -0.723300
-0.004449   -0.508966   -41.237275
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2993

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672    8.687378   83.596944    1.274965
 0.002832   1.409661  163.156133
0.57754    8.687378   83.596944    1.274965
 0.002832   0.875324  137.211962
0.71836    8.687378   83.596944    1.274965
 0.002832   0.349978  118.946493
0.85918    8.687378   83.596944    1.274965
 0.002832   0.152419  111.303174
1.00000    8.687378   83.596944    1.274965
 0.002832   0.557155  123.738009

COMB DL-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -8.695015   -95.672561   -0.966180
-0.002976   -1.067959   -101.794535
0.57754   -8.695015   -95.672561   -0.966180
-0.002976   -0.664277   -71.287914
0.71836   -8.695015   -95.672561   -0.966180
-0.002976   -0.261867   -52.780911
0.85918   -8.695015   -95.672561   -0.966180
-0.002976   -0.194842   -39.092445
1.00000   -8.695015   -95.672561   -0.966180
-0.002976   -0.728828   -47.496112

COMB DL-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672    8.451080   10.425536    0.727287
 0.000713   0.812671   10.844198
0.57754    8.451080   10.425536    0.727287
 0.000713   0.557785    6.257504
0.71836    8.451080   10.425536    0.727287
 0.000713   0.202773    4.564083
0.85918    8.451080   10.425536    0.727287
 0.000713   0.091349    4.158080
1.00000    8.451080   10.425536    0.727287
 0.000713   0.356643    3.748031

COMB DL-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -0.194985   -75.717785   -0.633532
-0.000127   -0.705250   -139.974018
0.57754   -0.194985   -75.717785   -0.633532
-0.000127   -0.439821   -108.308025
0.71836   -0.194985   -75.717785   -0.633532
-0.000127   -0.174388   -78.578995
0.85918   -0.194985   -75.717785   -0.633532
-0.000127   -0.101853   -49.660722
1.00000   -0.194985   -75.717785   -0.633532
-0.000127   -0.407418   -20.772040

COMB DL-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672   14.523901   33.713528    1.026579
 0.006764   1.120002   93.547068
0.57754   14.523901   33.713528    1.026579
 0.006764   0.689698   83.032311
0.71836   14.523901   33.713528    1.026579
 0.006764   0.283082   87.454661
0.85918   14.523901   33.713528    1.026579
 0.006764   0.149643  109.603445
1.00000   14.523901   33.713528    1.026579
 0.006764   0.499163  132.694191

COMB DL-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -1.389572   -160.437170   -0.835865
-0.005986   -0.917405   -180.234690
0.57754   -1.389572   -160.437170   -0.835865
-0.005986   -0.570208   -116.190690
0.71836   -1.389572   -160.437170   -0.835865
-0.005986   -0.227127   -79.048542
0.85918   -1.389572   -160.437170   -0.835865
-0.005986   -0.172347   -45.438210
1.00000   -1.389572   -160.437170   -0.835865
-0.005986   -0.602717   -14.266063
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2994

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672   12.730415   71.370796    1.158567
 0.005028   1.273285  183.254984
0.57754   12.730415   71.370796    1.158567
 0.005028   0.787751  155.976965
0.71836   12.730415   71.370796    1.158567
 0.005028   0.319661  139.857856
0.85918   12.730415   71.370796    1.158567
 0.005028   0.149878  136.796942
1.00000   12.730415   71.370796    1.158567
 0.005028   0.520602  134.664124

COMB DL-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -5.139419   -132.978265   -0.886868
-0.004515   -0.976577   -160.140820
0.57754   -5.139419   -132.978265   -0.886868
-0.004515   -0.607171   -106.638187
0.71836   -5.139419   -132.978265   -0.886868
-0.004515   -0.240970   -72.856598
0.85918   -5.139419   -132.978265   -0.886868
-0.004515   -0.185767   -41.779844
1.00000   -5.139419   -132.978265   -0.886868
-0.004515   -0.670753   -13.272067

COMB DL-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672   11.169184   79.480158    1.343620
 0.004217   1.481140  162.016401
0.57754   11.169184   79.480158    1.343620
 0.004217   0.917901  134.510051
0.71836   11.169184   79.480158    1.343620
 0.004217   0.369205  118.811748
0.85918   11.169184   79.480158    1.343620
 0.004217   0.167652  115.752856
1.00000   11.169184   79.480158    1.343620
 0.004217   0.598910  115.676621

COMB DL-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -7.600184   -114.971599   -1.030257
-0.004119   -1.136993   -139.265001
0.57754   -7.600184   -114.971599   -1.030257
-0.004119   -0.706992   -97.030867
0.71836   -7.600184   -114.971599   -1.030257
-0.004119   -0.279517   -74.830387
0.85918   -7.600184   -114.971599   -1.030257
-0.004119   -0.210238   -55.503052
1.00000   -7.600184   -114.971599   -1.030257
-0.004119   -0.772863   -39.434514

COMB      DB -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672   15.711571   96.166565    0.896420
 0.006871   0.983527  210.180714
0.57754   15.711571   96.166565    0.896420
 0.006871   0.607767  176.233436
0.71836   15.711571   96.166565    0.896420
 0.006871   0.244426  152.517534
0.85918   15.711571   96.166565    0.896420
 0.006871   0.133904  143.564324
1.00000   15.711571   96.166565    0.896420
 0.006871   0.478264  138.692841

COMB      DB -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -11.988765   -165.772698   -0.833120
-0.005962   -0.926476   -182.271457
0.57754   -11.988765   -165.772698   -0.833120
-0.005962   -0.577246   -120.851105
0.71836   -11.988765   -165.772698   -0.833120
-0.005962   -0.228007   -79.668820
0.85918   -11.988765   -165.772698   -0.833120
-0.005962   -0.144729   -56.879809
1.00000   -11.988765   -165.772698   -0.833120
-0.005962   -0.520311   -70.544681
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2995

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672   14.523901   96.430759    1.343620
 0.006764   1.481140  213.489619
0.57754   14.523901   96.430759    1.343620
 0.006764   0.917901  181.827099
0.71836   14.523901   96.430759    1.343620
 0.006764   0.369205  159.576415
0.85918   14.523901   96.430759    1.343620
 0.006764   0.167652  149.725137
1.00000   14.523901   96.430759    1.343620
 0.006764   0.598910  143.687368

COMB      DL -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -11.555900   -160.437170   -1.030257
-0.005986   -1.136993   -180.234690
0.57754   -11.555900   -160.437170   -1.030257
-0.005986   -0.706992   -116.190690
0.71836   -11.555900   -160.437170   -1.030257
-0.005986   -0.279517   -79.048542
0.85918   -11.555900   -160.437170   -1.030257
-0.005986   -0.210238   -62.744430
1.00000   -11.555900   -160.437170   -1.030257
-0.005986   -0.772863   -79.897541

COMB      CAR -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672   15.711571   96.430759    1.343620
 0.006871   1.481140  213.489619
0.57754   15.711571   96.430759    1.343620
 0.006871   0.917901  181.827099
0.71836   15.711571   96.430759    1.343620
 0.006871   0.369205  159.576415
0.85918   15.711571   96.430759    1.343620
 0.006871   0.167652  149.725137
1.00000   15.711571   96.430759    1.343620
 0.006871   0.598910  143.687368

COMB      CAR -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -11.988765   -165.772698   -1.030257
-0.005986   -1.136993   -182.271457
0.57754   -11.988765   -165.772698   -1.030257
-0.005986   -0.706992   -120.851105
0.71836   -11.988765   -165.772698   -1.030257
-0.005986   -0.279517   -79.668820
0.85918   -11.988765   -165.772698   -1.030257
-0.005986   -0.210238   -62.744430
1.00000   -11.988765   -165.772698   -1.030257
-0.005986   -0.772863   -79.897541

COMB DESIGN -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43672   15.711571   96.430759    1.343620
 0.006871   1.481140  213.489619
0.57754   15.711571   96.430759    1.343620
 0.006871   0.917901  181.827099
0.71836   15.711571   96.430759    1.343620
 0.006871   0.369205  159.576415
0.85918   15.711571   96.430759    1.343620
 0.006871   0.167652  149.725137
1.00000   15.711571   96.430759    1.343620
 0.006871   0.598910  143.687368

COMB DESIGN -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43672   -11.988765   -165.772698   -1.030257
-0.005986   -1.136993   -182.271457
0.57754   -11.988765   -165.772698   -1.030257
-0.005986   -0.706992   -120.851105
0.71836   -11.988765   -165.772698   -1.030257
-0.005986   -0.279517   -79.668820
0.85918   -11.988765   -165.772698   -1.030257
-0.005986   -0.210238   -62.744430
1.00000   -11.988765   -165.772698   -1.030257
-0.005986   -0.772863   -79.897541
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2996

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      279 ================== LENGTH
=    2.977605

COMB DB-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.379137   18.423740    0.396710
 6.82E-06   0.222031    7.516989
0.14085    0.379137   18.423740    0.396710
 6.82E-06   0.055618   10.354145
0.28170    0.379137   18.423740    0.396710
 6.82E-06   0.104098   13.293666
0.42256    0.379137   18.423740    0.396710
 6.82E-06   0.260924   16.251855
0.56341    0.379137   18.423740    0.396710
 6.82E-06   0.417733   19.227428

COMB DB-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.809002   -7.107245   -0.373888
-0.000340   -0.209541   -49.869036
0.14085   -4.809002   -7.107245   -0.373888
-0.000340   -0.052733   -57.339992
0.28170   -4.809002   -7.107245   -0.373888
-0.000340   -0.110748   -64.831050
0.42256   -4.809002   -7.107245   -0.373888
-0.000340   -0.277112   -72.379934
0.56341   -4.809002   -7.107245   -0.373888
-0.000340   -0.443492   -79.976629

COMB DB-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.250461   45.575069    0.650030
 0.000209   0.364948   14.132098
0.14085    1.250461   45.575069    0.650030
 0.000209   0.092235   16.242732
0.28170    1.250461   45.575069    0.650030
 0.000209   0.170986   19.265983
0.42256    1.250461   45.575069    0.650030
 0.000209   0.428934   23.047298
0.56341    1.250461   45.575069    0.650030
 0.000209   0.686838   27.231919

COMB DB-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -8.880121   -10.305337   -0.614937
-0.000867   -0.345309   -70.572628
0.14085   -8.880121   -10.305337   -0.614937
-0.000867   -0.087527   -86.827909
0.28170   -8.880121   -10.305337   -0.614937
-0.000867   -0.180978   -103.424821
0.42256   -8.880121   -10.305337   -0.614937
-0.000867   -0.452949   -120.390410
0.56341   -8.880121   -10.305337   -0.614937
-0.000867   -0.725569   -138.520902

COMB DB-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.296445   95.171323    0.688279
 0.000267   0.382998   61.211622
0.14085    1.296445   95.171323    0.688279
 0.000267   0.096569   44.205301
0.28170    1.296445   95.171323    0.688279
 0.000267   0.180191   41.206062
0.42256    1.296445   95.171323    0.688279
 0.000267   0.452697   41.710933
0.56341    1.296445   95.171323    0.688279
 0.000267   0.725204   43.460977

COMB DB-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.840391   -8.889320   -0.649742
-0.001016   -0.364834   -62.563470
0.14085   -11.840391   -8.889320   -0.649742
-0.001016   -0.092173   -73.922915
0.28170   -11.840391   -8.889320   -0.649742
-0.001016   -0.196196   -87.538570
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2997

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.42256   -11.840391   -8.889320   -0.649742
-0.001016   -0.484676   -125.206182
0.56341   -11.840391   -8.889320   -0.649742
-0.001016   -0.773341   -164.824590

COMB DB-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.516973   119.082975    0.794740
 0.003952   0.458652   132.189524
0.14085    5.516973   119.082975    0.794740
 0.003952   0.127113   120.466096
0.28170    5.516973   119.082975    0.794740
 0.003952   0.205558   120.078097
0.42256    5.516973   119.082975    0.794740
 0.003952   0.516061   131.665787
0.56341    5.516973   119.082975    0.794740
 0.003952   0.826530   151.696424

COMB DB-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -12.049424   -55.394012   -0.740269
-0.004340   -0.425446   -54.706425
0.14085   -12.049424   -55.394012   -0.740269
-0.004340   -0.119019   -65.489703
0.28170   -12.049424   -55.394012   -0.740269
-0.004340   -0.223842   -78.455598
0.42256   -12.049424   -55.394012   -0.740269
-0.004340   -0.544035   -110.958788
0.56341   -12.049424   -55.394012   -0.740269
-0.004340   -0.877345   -152.786066

COMB DB-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.184485   39.295684    0.240179
 8.56E-05   0.135114   14.181791
0.14085    1.184485   39.295684    0.240179
 8.56E-05   0.034281    7.672620
0.28170    1.184485   39.295684    0.240179
 8.56E-05   0.064039    8.157999
0.42256    1.184485   39.295684    0.240179
 8.56E-05   0.161226    7.578754
0.56341    1.184485   39.295684    0.240179
 8.56E-05   0.258391    7.525111

COMB DB-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.835398   -2.420093   -0.231675
-0.000424   -0.130288   -11.842836
0.14085   -4.835398   -2.420093   -0.231675
-0.000424   -0.033068   -15.471093
0.28170   -4.835398   -2.420093   -0.231675
-0.000424   -0.066367   -30.250966
0.42256   -4.835398   -2.420093   -0.231675
-0.000424   -0.167093   -45.943869
0.56341   -4.835398   -2.420093   -0.231675
-0.000424   -0.267825   -62.207333

COMB DB-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.921015   133.891454    0.379135
 0.005123   0.231281   138.967289
0.14085    1.921015   133.891454    0.379135
 0.005123   0.074613    96.034052
0.28170    1.921015   133.891454    0.379135
 0.005123   0.091625    68.081948
0.42256    1.921015   133.891454    0.379135
 0.005123   0.239752    56.225456
0.56341    1.921015   133.891454    0.379135
 0.005123   0.369877    55.814856

COMB DB-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -10.059056   -9.301526   -0.331711
-0.005497   -0.200415   -11.619207
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2998

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.14085   -10.059056   -9.301526   -0.331711
-0.005497   -0.066966   -15.496404
0.28170   -10.059056   -9.301526   -0.331711
-0.005497   -0.108648   -22.365217
0.42256   -10.059056   -9.301526   -0.331711
-0.005497   -0.249661   -54.973715
0.56341   -10.059056   -9.301526   -0.331711
-0.005497   -0.408670   -100.205769

COMB DB-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.993628   136.597267    0.643112
 0.004629   0.377965   129.826740
0.14085    1.993628   136.597267    0.643112
 0.004629   0.109769    93.237354
0.28170    1.993628   136.597267    0.643112
 0.004629   0.162113    70.093294
0.42256    1.993628   136.597267    0.643112
 0.004629   0.407299    61.452728
0.56341    1.993628   136.597267    0.643112
 0.004629   0.652482    63.165372

COMB DB-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -12.771566   -13.349645   -0.584602
-0.005248   -0.340714   -46.717653
0.14085   -12.771566   -13.349645   -0.584602
-0.005248   -0.100574   -56.615399
0.28170   -12.771566   -13.349645   -0.584602
-0.005248   -0.182029   -69.604426
0.42256   -12.771566   -13.349645   -0.584602
-0.005248   -0.435501   -105.597851
0.56341   -12.771566   -13.349645   -0.584602
-0.005248   -0.705223   -152.948045

COMB DB-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.988602   110.709404    0.814482
 0.003540   0.467270   116.541419
0.14085    7.988602   110.709404    0.814482
 0.003540   0.127297   115.419336
0.28170    7.988602   110.709404    0.814482
 0.003540   0.214428   126.092491
0.42256    7.988602   110.709404    0.814482
 0.003540   0.538368   146.993783
0.56341    7.988602   110.709404    0.814482
 0.003540   0.862311   174.915167

COMB DB-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -10.538047   -73.540862   -0.772394
-0.003611   -0.441646   -74.964170
0.14085   -10.538047   -73.540862   -0.772394
-0.003611   -0.120966   -52.905566
0.28170   -10.538047   -73.540862   -0.772394
-0.003611   -0.229444   -65.173652
0.42256   -10.538047   -73.540862   -0.772394
-0.003611   -0.560359   -97.183423
0.56341   -10.538047   -73.540862   -0.772394
-0.003611   -0.901952   -137.011378

COMB DB-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.393489    8.785088    0.493454
 0.000856   0.276694    3.158779
0.14085    9.393489    8.785088    0.493454
 0.000856   0.069723   21.958212
0.28170    9.393489    8.785088    0.493454
 0.000856   0.138216   54.170378
0.42256    9.393489    8.785088    0.493454
 0.000856   0.346839   86.604185
0.56341    9.393489    8.785088    0.493454
 0.000856   0.555446   119.124625
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    2999

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.186694   -77.690568   -0.497389
-0.000198   -0.278993   -12.340566
0.14085   -0.186694   -77.690568   -0.497389
-0.000198   -0.070297   -10.511173
```

```
0.28170   -0.186694   -77.690568   -0.497389
-0.000198   -0.137241   -13.366487
0.42256   -0.186694   -77.690568   -0.497389
-0.000198   -0.344177   -16.431040
0.56341   -0.186694   -77.690568   -0.497389
-0.000198   -0.551132   -19.915041

COMB DB-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.869235   91.257397   0.692763
 0.006879   0.412417  123.093277
0.14085   11.869235   91.257397   0.692763
 0.006879   0.122737  126.371095
0.28170   11.869235   91.257397   0.692763
 0.006879   0.176815  136.690702
0.42256   11.869235   91.257397   0.692763
 0.006879   0.443709  164.076471
0.56341   11.869235   91.257397   0.692763
 0.006879   0.710558  204.413085

COMB DB-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -4.558987  -104.016373   -0.636250
-0.006136   -0.373592   -9.570303
0.14085   -4.558987  -104.016373   -0.636250
-0.006136   -0.113707   -13.607090
0.28170   -4.558987  -104.016373   -0.636250
-0.006136   -0.391463   -17.739460
0.42256   -4.558987  -104.016373   -0.636250
-0.006136   -0.460311   -24.237791
0.56341   -4.558987  -104.016373   -0.636250
-0.006136   -0.750852   -48.134624

COMB DB-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.123446  116.495127   0.748965
 0.005093   0.436653  119.974170
0.14085   11.123446  116.495127   0.748965
 0.005093   0.123694  117.706820
0.28170   11.123446  116.495127   0.748965
 0.005093   0.199533  129.727850
0.42256   11.123446  116.495127   0.748965
 0.005093   0.501374  155.400880
0.56341   11.123446  116.495127   0.748965
 0.005093   0.803204  190.752977

COMB DB-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -7.834016  -93.218351   -0.719669
-0.004670   -0.415639   -10.579235
0.14085   -7.834016  -93.218351   -0.719669
-0.004670   -0.118549   -13.968434
0.28170   -7.834016  -93.218351   -0.719669
-0.004670   -0.211443   -20.727467
0.42256   -7.834016  -93.218351   -0.719669
-0.004670   -0.510507   -50.395568
0.56341   -7.834016  -93.218351   -0.719669
-0.004670   -0.824624   -90.247892

COMB DB-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   9.988993  113.493455   0.862907
 0.004218   0.499690  102.580942
0.14085   9.988993  113.493455   0.862907
 0.004218   0.136356  102.211401
0.28170   9.988993  113.493455   0.862907
 0.004218   0.228877  113.769460
0.42256   9.988993  113.493455   0.862907
 0.004218   0.574788  136.685725
0.56341   9.988993  113.493455   0.862907
 0.004218   0.920689  167.601893
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              3000

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -9.696365  -81.162228   -0.824741
-0.004132   -0.472448   -34.636406
0.14085   -9.696365  -81.162228   -0.824741
-0.004132   -0.130406   -43.933049
0.28170   -9.696365  -81.162228   -0.824741
-0.004132   -0.242574   -55.565557
0.42256   -9.696365  -81.162228   -0.824741
-0.004132   -0.592040   -86.627780
0.56341   -9.696365  -81.162228   -0.824741
-0.004132   -0.953944  -126.594400

COMB DL-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.403081   22.749383   0.576128
 3.97E-06   0.320408   9.638301
0.14085   0.403081   22.749383   0.576128
 3.97E-06   0.087786   13.299597
0.28170   0.403081   22.749383   0.576128
 3.97E-06   0.138063   17.022702
0.42256   0.403081   22.749383   0.576128
 3.97E-06   0.347852   20.771966
0.56341   0.403081   22.749383   0.576128
 3.97E-06   0.557160   24.531731

COMB DL-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.035212   -8.977422   -0.499218
-0.000290   -0.289495   -57.703046
0.14085   -5.035212   -8.977422   -0.499218
-0.000290   -0.070425   -67.032282
0.28170   -5.035212   -8.977422   -0.499218
-0.000290   -0.162174   -76.399635
0.42256   -5.035212   -8.977422   -0.499218
-0.000290   -0.403525   -85.824024
0.56341   -5.035212   -8.977422   -0.499218
-0.000290   -0.645147   -95.297032

COMB DL-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   1.107655   51.578461   0.981294
 0.000130   0.547138   15.649233
0.14085   1.107655   51.578461   0.981294
 0.000130   0.135607   19.285104
0.28170   1.107655   51.578461   0.981294
 0.000130   0.218800   23.628169
0.42256   1.107655   51.578461   0.981294
 0.000130   0.551031   28.524492
0.56341   1.107655   51.578461   0.981294
 0.000130   0.882988   33.708755

COMB DL-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -9.053700   -12.756818   -0.791048
-0.000685   -0.444298   -79.937545
0.14085   -9.053700   -12.756818   -0.791048
-0.000685   -0.112045   -98.708868
0.28170   -9.053700   -12.756818   -0.791048
-0.000685   -0.275594   -118.113740
0.42256   -9.053700   -12.756818   -0.791048
-0.000685   -0.686633   -138.524432
0.56341   -9.053700   -12.756818   -0.791048
-0.000685   -1.098367   -159.640393

COMB DL-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   1.278519   95.525345   1.051419
 0.000235   0.585227   74.280931
0.14085   1.278519   95.525345   1.051419
 0.000235   0.145110   58.203248
0.28170   1.278519   95.525345   1.051419
 0.000235   0.218581   48.567366
0.42256   1.278519   95.525345   1.051419
 0.000235   0.550646   47.291320
0.56341   1.278519   95.525345   1.051419
 0.000235   0.882059   49.109357
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              3001

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -11.447200   -11.983003   -0.790329
-0.000839   -0.443775   -70.510071
0.14085   -11.447200   -11.983003   -0.790329
-0.000839   -0.111617   -84.912681
0.28170   -11.447200   -11.983003   -0.790329
-0.000839   -0.297493   -101.968455
0.42256   -11.447200   -11.983003   -0.790329
-0.000839   -0.738099   -136.404742
0.56341   -11.447200   -11.983003   -0.790329
-0.000839   -1.179083   -173.779141

COMB DL-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   5.183617   112.001109   1.215606
 0.003077   0.692020   139.068780
0.14085   5.183617   112.001109   1.215606
 0.003077   0.182679   131.673385
0.28170   5.183617   112.001109   1.215606
 0.003077   0.255021   129.617081
0.42256   5.183617   112.001109   1.215606
 0.003077   0.641336   140.966723
0.56341   5.183617   112.001109   1.215606
 0.003077   1.028873   159.960257

COMB DL-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -11.284279   -56.383230   -0.927858
-0.003401   -0.534203   -61.619599
0.14085   -11.284279   -56.383230   -0.927858
-0.003401   -0.144907   -75.198870
0.28170   -11.284279   -56.383230   -0.927858
-0.003401   -0.339816   -91.196904
0.42256   -11.284279   -56.383230   -0.927858
-0.003401   -0.839020   -121.373954
0.56341   -11.284279   -56.383230   -0.927858
-0.003401   -1.348415   -162.146863

COMB DL-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.909083   37.814738   0.393479
 7.94E-05   0.219862   15.223682
0.14085   0.909083   37.814738   0.393479
 7.94E-05   0.055299   8.550941
0.28170   0.909083   37.814738   0.393479
 7.94E-05   0.072922   7.161310
0.42256   0.909083   37.814738   0.393479
 7.94E-05   0.183241   7.114722
0.56341   0.909083   37.814738   0.393479
 7.94E-05   0.293983   7.444828

COMB DL-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -4.602295   -2.653068   -0.263851
-0.000347   -0.147641   -11.381875
0.14085   -4.602295   -2.653068   -0.263851
-0.000347   -0.037335   -16.951434
0.28170   -4.602295   -2.653068   -0.263851
-0.000347   -0.110168   -30.010603
0.42256   -4.602295   -2.653068   -0.263851
-0.000347   -0.257967   -73.978478
0.56341   -4.602295   -2.653068   -0.263851
-0.000347   -0.440097   -60.212084

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   1.801366   120.877294   0.600467
 0.004403   0.355665   143.693071
0.14085   1.801366   120.877294   0.600467
 0.004403   0.104235   104.464983
0.28170   1.801366   120.877294   0.600467
 0.004403   0.102594   72.318523
0.42256   1.801366   120.877294   0.600467
 0.004403   0.251145   59.323016
0.56341   1.801366   120.877294   0.600467
 0.004403   0.404942   57.207435
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              3002

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -9.128473   -10.175197   -0.372061
-0.004689   -0.228454   -11.247361
0.14085   -9.128473   -10.175197   -0.372061
-0.004689   -0.073524   -15.668267
0.28170   -9.128473   -10.175197   -0.372061
-0.004689   -0.167848   -24.250751
0.42256   -9.128473   -10.175197   -0.372061
-0.004689   -0.402313   -50.895108
0.56341   -9.128473   -10.175197   -0.372061
-0.004689   -0.653342   -92.889812

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   1.916693   128.971384   0.994049
 0.003985   0.572641   135.671526
0.14085   1.916693   128.971384   0.994049
 0.003985   0.156009   102.789652
0.28170   1.916693   128.971384   0.994049
 0.003985   0.193916   76.356457
0.42256   1.916693   128.971384   0.994049
 0.003985   0.486223   67.267704
0.56341   1.916693   128.971384   0.994049
 0.003985   0.780747   67.999815

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -12.043158   -15.384343   -0.707627
-0.004478   -0.415057   -51.254488
0.14085   -12.043158   -15.384343   -0.707627
-0.004478   -0.118804   -63.281057
0.28170   -12.043158   -15.384343   -0.707627
-0.004478   -0.279539   -79.405889
0.42256   -12.043158   -15.384343   -0.707627
-0.004478   -0.679311   -111.635608
0.56341   -12.043158   -15.384343   -0.707627
-0.004478   -1.095499   -157.749135

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   7.328223   104.661165   1.260739
 0.002818   0.717002   123.710194
0.14085   7.328223   104.661165   1.260739
 0.002818   0.187791   125.417932
0.28170   7.328223   104.661165   1.260739
 0.002818   0.263707   132.640277
0.42256   7.328223   104.661165   1.260739
 0.002818   0.662858   152.388806
0.56341   7.328223   104.661165   1.260739
 0.002818   1.062976   178.742571

COMB DL-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -9.797709   -73.091676   -0.957743
-0.002878   -0.548544   -47.500051
0.14085   -9.797709   -73.091676   -0.957743
-0.002878   -0.147160   -59.659333
0.28170   -9.797709   -73.091676   -0.957743
-0.002878   -0.351540   -75.108877
0.42256   -9.797709   -73.091676   -0.957743
-0.002878   -0.871133   -104.432372
0.56341   -9.797709   -73.091676   -0.957743
-0.002878   -1.399366   -142.820590

COMB DL-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   8.514980   10.465417   0.752249
 0.000733   0.424470   3.742660
0.14085   8.514980   10.465417   0.752249
 0.000733   0.108246   21.577293
0.28170   8.514980   10.465417   0.752249
 0.000733   0.176747   52.611875
0.42256   8.514980   10.465417   0.752249
 0.000733   0.444993   84.074828
0.56341   8.514980   10.465417   0.752249
 0.000733   0.712904   115.799765
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              3003

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.192859   -76.195268   -0.639392
-0.000185   -0.359297   -20.800831
0.14085   -0.192859   -76.195268   -0.639392
-0.000185   -0.191238   -18.941932
0.28170   -0.192859   -76.195268   -0.639392
-0.000185   -0.206786   -17.198469
0.42256   -0.192859   -76.195268   -0.639392
-0.000185   -0.522641   -21.006707
0.56341   -0.192859   -76.195268   -0.639392
-0.000185   -0.838092   -25.216304

COMB DL-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   10.852192   90.076508   1.055618
 0.006733   0.622276   132.730531
0.14085   10.852192   90.076508   1.055618
 0.006733   0.179480   135.144979
0.28170   10.852192   90.076508   1.055618
 0.006733   0.230453   144.032870
0.42256   10.852192   90.076508   1.055618
 0.006733   0.577280   168.358792
0.56341   10.852192   90.076508   1.055618
 0.006733   0.927702   205.032225

COMB DL-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -4.440182  -100.877395   -0.844480
-0.006114   -0.502793   -14.267751
0.14085   -4.440182  -100.877395   -0.844480
-0.006114   -0.149557   -16.697806
0.28170   -4.440182  -100.877395   -0.844480
-0.006114   -0.287460   -21.854244
0.42256   -4.440182  -100.877395   -0.844480
-0.006114   -0.707233   -29.857330
0.56341   -4.440182  -100.877395   -0.844480
-0.006114   -1.149714   -57.799115

COMB DL-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   10.116825   111.660655   1.170662
 0.005133   0.678714   134.666204
0.14085   10.116825   111.660655   1.170662
 0.005133   0.188474   129.123375
0.28170   10.116825   111.660655   1.170662
 0.005133   0.242034   132.496937
0.42256   10.116825   111.660655   1.170662
 0.005133   0.609436   154.081370
0.56341   10.116825   111.660655   1.170662
 0.005133   0.978698   186.116013

COMB DL-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -7.294685   -90.189032   -0.887082
-0.004771   -0.518631   -13.272595
0.14085   -7.294685   -90.189032   -0.887082
-0.004771   -0.147631   -15.796887
0.28170   -7.294685   -90.189032   -0.887082
-0.004771   -0.322633   -24.948526
0.42256   -7.294685   -90.189032   -0.887082
-0.004771   -0.795963   -48.625241
0.56341   -7.294685   -90.189032   -0.887082
-0.004771   -1.286399   -87.227697

COMB DL-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   9.005841   112.721606   1.343741
 0.004262   0.770676   115.686664
0.14085   9.005841   112.721606   1.343741
 0.004262   0.206829   113.012523
0.28170   9.005841   112.721606   1.343741
 0.004262   0.281281   117.665561
0.42256   9.005841   112.721606   1.343741
 0.004262   0.706308   137.426808
0.56341   9.005841   112.721606   1.343741
 0.004262   1.133415   165.886151
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              3004

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -9.369365   -79.426542   -1.023653
-0.004185   -0.591071   -39.451757
0.14085   -9.369365   -79.426542   -1.023653
-0.004185   -0.162913   -49.327432
0.28170   -9.369365   -79.426542   -1.023653
-0.004185   -0.372251   -64.535462
0.42256   -9.369365   -79.426542   -1.023653
-0.004185   -0.921115   -92.207361
0.56341   -9.369365   -79.426542   -1.023653
-0.004185   -1.484334   -132.449841

COMB      DB -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.869235   136.597267   0.862907
 0.006879   0.496690   138.967289
0.14085   11.869235   136.597267   0.862907
 0.006879   0.136356   126.371095
0.28170   11.869235   136.597267   0.862907
 0.006879   0.228877   136.690702
0.42256   11.869235   136.597267   0.862907
 0.006879   0.574788   164.076471
0.56341   11.869235   136.597267   0.862907
 0.006879   0.920689   204.413085

COMB      DB -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -12.771566  -104.016373   -0.824741
-0.006136   -0.472448   -70.572628
0.14085   -12.771566  -104.016373   -0.824741
-0.006136   -0.130406   -86.827909
0.28170   -12.771566  -104.016373   -0.824741
-0.006136   -0.242574   -103.424821
0.42256   -12.771566  -104.016373   -0.824741
-0.006136   -0.592040   -125.206182
0.56341   -12.771566  -104.016373   -0.824741
-0.006136   -0.953944   -164.824590

COMB      DL -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   10.852192   128.971384   1.343741
 0.006733   0.770676   143.693071
0.14085   10.852192   128.971384   1.343741
 0.006733   0.206829   135.144979
0.28170   10.852192   128.971384   1.343741
 0.006733   0.281281   144.032870
0.42256   10.852192   128.971384   1.343741
 0.006733   0.706308   168.358792
0.56341   10.852192   128.971384   1.343741
 0.006733   1.133415   205.032225

COMB      DL -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -12.043158  -100.877395   -1.023653
-0.006114   -0.591071   -79.937545
0.14085   -12.043158  -100.877395   -1.023653
-0.006114   -0.162913   -98.708868
0.28170   -12.043158  -100.877395   -1.023653
-0.006114   -0.372251   -118.113740
0.42256   -12.043158  -100.877395   -1.023653
-0.006114   -0.921115   -138.524432
0.56341   -12.043158  -100.877395   -1.023653
-0.006114   -1.484334   -173.779141

COMB      CAR -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.869235   136.597267   1.343741
 0.006879   0.770676   143.693071
0.14085   11.869235   136.597267   1.343741
 0.006879   0.206829   135.144979
0.28170   11.869235   136.597267   1.343741
 0.006879   0.281281   144.032870
0.42256   11.869235   136.597267   1.343741
 0.006879   0.706308   168.358792
0.56341   11.869235   136.597267   1.343741
 0.006879   1.133415   205.032225
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                              3005

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -12.771566  -104.016373   -1.023653
-0.006136   -0.591071   -79.937545
0.14085   -12.771566  -104.016373   -1.023653
-0.006136   -0.162913   -98.708868
0.28170   -12.771566  -104.016373   -1.023653
-0.006136   -0.372251   -118.113740
0.42256   -12.771566  -104.016373   -1.023653
-0.006136   -0.921115   -138.524432
0.56341   -12.771566  -104.016373   -1.023653
-0.006136   -1.484334   -173.779141

COMB      DESIGN -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.869235   136.597267   1.343741
 0.006879   0.770676   143.693071
0.14085   11.869235   136.597267   1.343741
 0.006879   0.206829   135.144979
0.28170   11.869235   136.597267   1.343741
 0.006879   0.281281   144.032870
0.42256   11.869235   136.597267   1.343741
 0.006879   0.706308   168.358792
0.56341   11.869235   136.597267   1.343741
 0.006879   1.133415   205.032225

COMB      DESIGN -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -12.771566  -104.016373   -1.023653
-0.006136   -0.591071   -79.937545
0.14085   -12.771566  -104.016373   -1.023653
-0.006136   -0.162913   -98.708868
0.28170   -12.771566  -104.016373   -1.023653
-0.006136   -0.372251   -118.113740
0.42256   -12.771566  -104.016373   -1.023653
-0.006136   -0.921115   -138.524432
0.56341   -12.771566  -104.016373   -1.023653
-0.006136   -1.484334   -173.779141

ELEM      280 ================== LENGTH
=  2.978210

COMB DB-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43650   1.488558   11.967041   0.427976
 1.11E-05   0.475861   2.048154
0.57738   1.488558   11.967041   0.427976
 1.11E-05   0.296304   1.327225
0.71825   1.488558   11.967041   0.427976
 1.11E-05   0.116769   2.711851
0.85913   1.488558   11.967041   0.427976
 1.11E-05   0.063145   5.698241
1.00000   1.488558   11.967041   0.427976
 1.11E-05   0.244184   9.777929

COMB DB-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43650   -3.279942   -11.095835   -0.431515
-0.000945   -0.479999   -23.983785
0.57738   -3.279942   -11.095835   -0.431515
-0.000945   -0.298956   -28.219858
0.71825   -3.279942   -11.095835   -0.431515
-0.000945   -0.117913   -32.561702
0.85913   -3.279942   -11.095835   -0.431515
-0.000945   -0.062777   -36.987679
1.00000   -3.279942   -11.095835   -0.431515
-0.000945   -0.242372   -41.568051

COMB DB-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43650   2.110222   33.094891   0.706224
 0.000276   0.784850   25.184747
0.57738   2.110222   33.094891   0.706224
 0.000276   0.488583   17.599344
```

```
0.71825     2.110222    33.094891     0.706224
 0.000276    0.192929    12.388040
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                              3006

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
         T         M2          M3
0.85913     2.110222    33.094891     0.706224
 0.000276    0.103492    11.489567
1.00000     2.110222    33.094891     0.706224
 0.000276    0.398957    16.730825

COMB DB-G1-2 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -7.601540   -19.448725    -0.704819
-0.001804   -0.784168   -35.159803
 0.57738    -7.601540   -19.448725    -0.704819
-0.001804   -0.488470   -38.473585
 0.71825    -7.601540   -19.448725    -0.704819
-0.001804   -0.192719   -44.695232
 0.85913    -7.601540   -19.448725    -0.704819
-0.001804   -0.104059   -53.141120
 1.00000    -7.601540   -19.448725    -0.704819
-0.001804   -0.400353   -62.406689

COMB DB-G1-3 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     1.882571    84.194963     0.881077
 4.12E-05    0.980692   160.103316
 0.57738     1.882571    84.194963     0.881077
 4.12E-05    0.611035   130.407210
 0.71825     1.882571    84.194963     0.881077
 4.12E-05    0.241393   102.611308
 0.85913     1.882571    84.194963     0.881077
 4.12E-05    0.108328    77.664001
 1.00000     1.882571    84.194963     0.881077
 4.12E-05    0.421250    57.316084

COMB DB-G1-3 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650   -10.911996   -17.652136    -0.745460
-0.001413   -0.829797   -35.662590
 0.57738   -10.911996   -17.652136    -0.745460
-0.001413   -0.517042   -38.502918
 0.71825   -10.911996   -17.652136    -0.745460
-0.001413   -0.204221   -42.895654
 0.85913   -10.911996   -17.652136    -0.745460
-0.001413   -0.126265   -48.736129
 1.00000   -10.911996   -17.652136    -0.745460
-0.001413   -0.497942   -54.849490

COMB DB-G1-4 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     8.184095    77.498142     0.961939
 0.004081    1.057295   153.018995
 0.57738     8.184095    77.498142     0.961939
 0.004081    0.654277   127.126336
 0.71825     8.184095    77.498142     0.961939
 0.004081    0.262847   110.653156
 0.85913     8.184095    77.498142     0.961939
 0.004081    0.130533   110.222380
 1.00000     8.184095    77.498142     0.961939
 0.004081    0.464004   124.639987

COMB DB-G1-4 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -9.583022   -96.040464    -0.810776
-0.004619   -0.902477   -90.138150
 0.57738    -9.583022   -96.040464    -0.810776
-0.004619   -0.562327   -62.418605
 0.71825    -9.583022   -96.040464    -0.810776
-0.004619   -0.222090   -47.893950
 0.85913    -9.583022   -96.040464    -0.810776
-0.004619   -0.154381   -41.895506
 1.00000    -9.583022   -96.040464    -0.810776
-0.004619   -0.557455   -48.998832

COMB DB-G2-1 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     0.727593    34.945232     0.301774
 0.000141    0.335930    60.495271
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                              3007

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
         T         M2          M3
0.57738     0.727593    34.945232     0.301774
 0.000141    0.209335    46.361960
0.71825     0.727593    34.945232     0.301774
 0.000141    0.082780    32.678712
0.85913     0.727593    34.945232     0.301774
 0.000141    0.037705    20.083756
1.00000     0.727593    34.945232     0.301774
 0.000141    0.147141    13.179267

COMB DB-G2-1 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -5.357055    -6.172834    -0.260646
-0.000637   -0.220278   -12.355351
 0.57738    -5.357055    -6.172834    -0.260646
-0.000637   -0.180935   -10.031235
 0.71825    -5.357055    -6.172834    -0.260646
-0.000637   -0.071508    -9.672054
 0.85913    -5.357055    -6.172834    -0.260646
-0.000637   -0.043916   -11.151927
 1.00000    -5.357055    -6.172834    -0.260646
-0.000637   -0.170528   -13.028064

COMB DB-G2-2 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     4.740109    82.269095     0.583291
 0.004930    0.631194   193.414427
 0.57738     4.740109    82.269095     0.583291
 0.004930    0.387251   161.109202
 0.71825     4.740109    82.269095     0.583291
 0.004930    0.159172   138.822990
 0.85913     4.740109    82.269095     0.583291
 0.004930    0.070109   132.029975
 1.00000     4.740109    82.269095     0.583291
 0.004930    0.213509   129.126284

COMB DB-G2-2 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -8.163061   -64.890748    -0.364332
-0.005171   -0.405884   -35.203639
 0.57738    -8.163061   -64.890748    -0.364332
-0.005171   -0.253037   -13.665179
 0.71825    -8.163061   -64.890748    -0.364332
-0.005171   -0.100124   -10.164980
 0.85913    -8.163061   -64.890748    -0.364332
-0.005171   -0.104334   -11.078934
 1.00000    -8.163061   -64.890748    -0.364332
-0.005171   -0.348247   -12.590693

COMB DB-G2-3 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     4.691519    85.024160     0.852010
 0.004448    0.931748   173.518563
 0.57738     4.691519    85.024160     0.852010
 0.004448    0.574988   144.599213
 0.71825     4.691519    85.024160     0.852010
 0.004448    0.232564   124.859392
 0.85913     4.691519    85.024160     0.852010
 0.004448    0.111340   121.478523
 1.00000     4.691519    85.024160     0.852010
 0.004448    0.378764   122.219353

COMB DB-G2-3 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650   -10.402014   -66.787900    -0.657653
-0.005381   -0.732110   -45.359082
 0.57738   -10.402014   -66.787900    -0.657653
-0.005381   -0.456197   -30.654667
 0.71825   -10.402014   -66.787900    -0.657653
-0.005381   -0.180194   -31.926661
 0.85913   -10.402014   -66.787900    -0.657653
-0.005381    0.141852   -36.323139
 1.00000   -10.402014   -66.787900    -0.657653
-0.005381   -0.498613   -42.422873
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                              3008

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     9.224074    79.017772     0.963797
 0.003706    1.062183   153.922231
 0.57738     9.224074    79.017772     0.963797
 0.003706    0.858294   126.645953
 0.71825     9.224074    79.017772     0.963797
 0.003706    0.263808   106.104698
 0.85913     9.224074    79.017772     0.963797
 0.003706    0.130245    98.124387
 1.00000     9.224074    79.017772     0.963797
 0.003706    0.470999   108.341462

COMB DB-G2-4 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -9.257888  -103.388636    -0.825436
-0.003728   -0.918967  -112.559232
 0.57738    -9.257888  -103.388636    -0.825436
-0.003728   -0.572660   -79.397582
 0.71825    -9.257888  -103.388636    -0.825436
-0.003728   -0.226284   -56.944632
 0.85913    -9.257888  -103.388636    -0.825436
-0.003728   -0.151593   -37.139478
 1.00000    -9.257888  -103.388636    -0.825436
-0.003728   -0.555551   -40.578336

COMB DB-G3-1 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     8.392061    15.518093     0.467781
 0.001158    0.521177    19.138627
 0.57738     8.392061    15.518093     0.467781
 0.001158    0.324919    12.850156
 0.71825     8.392061    15.518093     0.467781
 0.001158    0.128683     6.902317
 0.85913     8.392061    15.518093     0.467781
 0.001158    0.070233     3.461419
 1.00000     8.392061    15.518093     0.467781
 0.001158    0.273698     3.167567

COMB DB-G3-1 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -0.910523   -66.704484    -0.484827
-7.29E-06   -0.539953  -124.618202
 0.57738    -0.910523   -66.704484    -0.484827
-7.29E-06   -0.336543   -96.673632
 0.71825    -0.910523   -66.704484    -0.484827
-7.29E-06   -0.133118   -68.754736
 0.85913    -0.910523   -66.704484    -0.484827
-7.29E-06    0.067570   -40.849004
 1.00000    -0.910523   -66.704484    -0.484827
-7.29E-06   -0.263859   -13.123706

COMB DB-G3-2 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650    15.039721    41.352972     0.726287
 0.007326    0.786574    95.686206
 0.57738    15.039721    41.352972     0.726287
 0.007326    0.482805    80.988967
 0.71825    15.039721    41.352972     0.726287
 0.007326    0.198332    78.407461
 0.85913    15.039721    41.352972     0.726287
 0.007326    0.110981    95.496818
 1.00000    15.039721    41.352972     0.726287
 0.007326    0.359397   117.353056

COMB DB-G3-2 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -2.335250  -153.588204    -0.619339
-0.005756   -0.689695  -166.933508
 0.57738    -2.335250  -153.588204    -0.619339
-0.005756   -0.429853  -109.420921
 0.71825    -2.335250  -153.588204    -0.619339
-0.005756   -0.169971   -71.850032
 0.85913    -2.335250  -153.588204    -0.619339
-0.005756   -0.129100   -37.907730
 1.00000    -2.335250  -153.588204    -0.619339
-0.005756   -0.432963   -12.347325
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                              3009

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650    12.617457    81.182735     0.898071
 0.005290    0.985054   181.668117
 0.57738    12.617457    81.182735     0.898071
 0.005290    0.608916   149.512723
 0.71825    12.617457    81.182735     0.898071
 0.005290    0.246036   125.962539
 0.85913    12.617457    81.182735     0.898071
 0.005290    0.119631   116.271640
 1.00000    12.617457    81.182735     0.898071
 0.005290    0.416330   111.272478

COMB DB-G3-3 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -6.820574  -127.857412    -0.725990
-0.004118   -0.808695  -154.888208
 0.57738    -6.820574  -127.857412    -0.725990
-0.004118   -0.504107  -105.891925
 0.71825    -6.820574  -127.857412    -0.725990
-0.004118   -0.199455   -70.617277
 0.85913    -6.820574  -127.857412    -0.725990
-0.004118   -0.146434   -37.859883
 1.00000    -6.820574  -127.857412    -0.725990
-0.004118   -0.522573   -13.653990

COMB DB-G3-4 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650    11.037856    80.346466     1.002778
 0.004409    1.104021   156.958026
 0.57738    11.037856    80.346466     1.002778
 0.004409    0.683841   128.068387
 0.71825    11.037856    80.346466     1.002778
 0.004409    0.274609   106.539481
 0.85913    11.037856    80.346466     1.002778
 0.004409    0.137213    97.970744
 1.00000    11.037856    80.346466     1.002778
 0.004409    0.492683    96.157151

COMB DB-G3-4 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -8.807459  -112.439288    -0.862720
-0.004012   -0.969549  -138.099267
 0.57738    -8.807459  -112.439288    -0.862720
-0.004012   -0.598699   -99.556741
 0.71825    -8.807459  -112.439288    -0.862720
-0.004012   -0.236663   -73.546403
 0.85913    -8.807459  -112.439288    -0.862720
-0.004012   -0.159046   -50.594673
 1.00000    -8.807459  -112.439288    -0.862720
-0.004012   -0.579237   -34.957899

COMB DL-G1-1 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     1.906393    14.701208     0.745329
 8.25E-06    0.828621     2.277149
 0.57738     1.906393    14.701208     0.745329
 8.25E-06    0.516093     1.611988
 0.71825     1.906393    14.701208     0.745329
 8.25E-06    0.203575     2.319520
 0.85913     1.906393    14.701208     0.745329
 8.25E-06    0.087682     7.196785
 1.00000     1.906393    14.701208     0.745329
 8.25E-06    0.341856    12.708691

COMB DL-G1-1 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -3.000336   -14.029730    -0.604539
-0.000930   -0.672970   -33.400774
 0.57738    -3.000336   -14.029730    -0.604539
-0.000930   -0.419247   -34.549916
 0.71825    -3.000336   -14.029730    -0.604539
-0.000930   -0.165120   -36.396286
 0.85913    -3.000336   -14.029730    -0.604539
-0.000930   -0.108609   -42.034708
 1.00000    -3.000336   -14.029730    -0.604539
-0.000930   -0.420900   -47.859949
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                              3010

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     2.404397    36.645666     1.278165
 0.000198    1.421640    25.539011
 0.57738     2.404397    36.645666     1.278165
 0.000198    0.885447    17.513692
 0.71825     2.404397    36.645666     1.278165
 0.000198    0.349759    11.415350
 0.85913     2.404397    36.645666     1.278165
 0.000198    0.140487    12.325779
 1.00000     2.404397    36.645666     1.278165
 0.000198    0.547507    19.079285

COMB DL-G1-2 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -7.739174   -22.854321    -0.967424
-0.001630   -1.076274   -46.775431
 0.57738    -7.739174   -22.854321    -0.967424
-0.001630   -0.670555   -47.708417
 0.71825    -7.739174   -22.854321    -0.967424
-0.001630   -0.263595   -50.052816
 0.85913    -7.739174   -22.854321    -0.967424
-0.001630   -0.186095   -53.328475
 1.00000    -7.739174   -22.854321    -0.967424
-0.001630   -0.721832   -69.632964

COMB DL-G1-3 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     2.293550    81.195568     1.483043
 4.89E-05    1.651241   157.714694
 0.57738     2.293550    81.195568     1.483043
 4.89E-05    1.029158   130.509080
 0.71825     2.293550    81.195568     1.483043
 4.89E-05    0.407073   104.863352
 0.85913     2.293550    81.195568     1.483043
 4.89E-05    0.146641    85.107324
 1.00000     2.293550    81.195568     1.483043
 4.89E-05    0.572516    69.651865

COMB DL-G1-3 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650   -10.431478   -22.196513    -1.014409
-0.001347   -1.127694   -45.322094
 0.57738   -10.431478   -22.196513    -1.014409
-0.001347   -0.702332   -45.485148
 0.71825   -10.431478   -22.196513    -1.014409
-0.001347   -0.276206   -46.537037
 0.85913   -10.431478   -22.196513    -1.014409
-0.001347   -0.214956   -52.774264
 1.00000   -10.431478   -22.196513    -1.014409
-0.001347   -0.836274   -60.948814

COMB DL-G1-4 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     7.685407    76.792894     1.583740
 0.003266    1.753253   156.044397
 0.57738     7.685407    76.792894     1.583740
 0.003266    1.090671   131.643414
 0.71825     7.685407    76.792894     1.583740
 0.003266    0.435598   115.143192
 0.85913     7.685407    76.792894     1.583740
 0.003266    0.170520   116.287905
 1.00000     7.685407    76.792894     1.583740
 0.003266    0.625041   130.524754

COMB DL-G1-4 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -9.216406   -88.180799    -1.084728
-0.003793   -1.204103   -91.024033
 0.57738    -9.216406   -88.180799    -1.084728
-0.003793   -0.750175   -63.640109
 0.71825    -9.216406   -88.180799    -1.084728
-0.003793   -0.295304   -48.517848
 0.85913    -9.216406   -88.180799    -1.084728
-0.003793   -0.240756   -45.294485
 1.00000    -9.216406   -88.180799    -1.084728
-0.003793   -0.904175   -54.417706
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                              3011

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     0.586223    32.221160     0.546880
 0.000132    0.609239    57.701826
 0.57738     0.586223    32.221160     0.546880
 0.000132    0.379872    44.694823
 0.71825     0.586223    32.221160     0.546880
 0.000132    0.150735    32.144988
 0.85913     0.586223    32.221160     0.546880
 0.000132    0.048932    20.961565
 1.00000     0.586223    32.221160     0.546880
 0.000132    0.192382    13.430844

COMB DL-G2-1 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -5.657753    -6.982719    -0.341161
-0.000534   -0.379650   -12.876050
 0.57738    -5.657753    -6.982719    -0.341161
-0.000534   -0.235993   -11.372878
 0.71825    -5.657753    -6.982719    -0.341161
-0.000534   -0.092774   -10.210147
 0.85913    -5.657753    -6.982719    -0.341161
-0.000534   -0.079076   -10.280399
 1.00000    -5.657753    -6.982719    -0.341161
-0.000534   -0.307965   -12.231871

COMB DL-G2-2 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     4.272206    75.653264     0.889955
 0.004276    0.973992   191.841443
 0.57738     4.272206    75.653264     0.889955
 0.004276    0.603755   162.675941
 0.71825     4.272206    75.653264     0.889955
 0.004276    0.244166   142.532476
 0.85913     4.272206    75.653264     0.889955
 0.004276    0.089104   135.569883
 1.00000     4.272206    75.653264     0.889955
 0.004276    0.287914   132.329538

COMB DL-G2-2 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -7.888388   -57.503918    -0.477150
-0.004488   -0.526842   -34.641707
 0.57738    -7.888388   -57.503918    -0.477150
-0.004488   -0.327773   -13.789639
 0.71825    -7.888388   -57.503918    -0.477150
-0.004488   -0.128964   -10.057859
 0.85913    -7.888388   -57.503918    -0.477150
-0.004488   -0.147528   -10.023265
 1.00000    -7.888388   -57.503918    -0.477150
-0.004488   -0.520026   -11.868146

COMB DL-G2-3 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     4.528792    81.424672     1.389187
 0.003862    1.530823   171.957363
 0.57738     4.528792    81.424672     1.389187
 0.003862    0.950635   145.511045
 0.71825     4.528792    81.424672     1.389187
 0.003862    0.380770   128.222207
 0.85913     4.528792    81.424672     1.389187
 0.003862    0.146198   125.777324
 1.00000     4.528792    81.424672     1.389187
 0.003862    0.516462   127.142335

COMB DL-G2-3 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650   -10.072345   -62.221607    -0.884099
-0.004729   -0.979958   -51.381069
 0.57738   -10.072345   -62.221607    -0.884099
-0.004729   -0.610281   -34.810808
 0.71825   -10.072345   -62.221607    -0.884099
-0.004729   -0.239977   -33.730487
 0.85913   -10.072345   -62.221607    -0.884099
-0.004729   -0.218441   -38.564173
 1.00000   -10.072345   -62.221607    -0.884099
-0.004729   -0.800191   -45.511043
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD          >
                              3012

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     8.376785    77.850543     1.587532
 0.003053    1.760879   154.124331
 0.57738     8.376785    77.850543     1.587532
 0.003053    1.096836   128.312553
 0.71825     8.376785    77.850543     1.587532
 0.003053    0.438810   108.107195
 0.85913     8.376785    77.850543     1.587532
 0.003053    0.167447   101.586989
 1.00000     8.376785    77.850543     1.587532
 0.003053    0.620223   114.188537

COMB DL-G2-4 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -9.123950   -95.629995    -1.079984
-0.003091   -1.199526  -108.315225
 0.57738    -9.123950   -95.629995    -1.079984
-0.003091   -0.747157   -76.025114
 0.71825    -9.123950   -95.629995    -1.079984
-0.003091   -0.294249   -53.428906
 0.85913    -9.123950   -95.629995    -1.079984
-0.003091   -0.237492   -38.180244
 1.00000    -9.123950   -95.629995    -1.079984
-0.003091   -0.902950   -44.124829

COMB DL-G3-1 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650     7.344878    18.941041     0.750964
 0.001088    0.840691    21.912194
 0.57738     7.344878    18.941041     0.750964
 0.001088    0.525818    14.113090
 0.71825     7.344878    18.941041     0.750964
 0.001088    0.210409     6.554341
 0.85913     7.344878    18.941041     0.750964
 0.001088    0.087127     3.878346
 1.00000     7.344878    18.941041     0.750964
 0.001088    0.338874     3.738948

COMB DL-G3-1 ------------------ MIN

REL DIST          P           V2          V3
         T         M2          M3
0.43650    -1.374433   -62.824875    -0.600330
-4.30E-06   -0.668512  -119.184208
 0.57738    -1.374433   -62.824875    -0.600330
-4.30E-06   -0.416625   -92.870058
 0.71825    -1.374433   -62.824875    -0.600330
-4.30E-06   -0.164769   -66.736253
 0.85913    -1.374433   -62.824875    -0.600330
-4.30E-06   -0.104387   -44.680783
 1.00000    -1.374433   -62.824875    -0.600330
-4.30E-06   -0.419497   -23.894828

COMB DL-G3-2 ------------------ MAX

REL DIST          P           V2          V3
         T         M2          M3
0.43650    13.829753    43.677183     1.099820
 0.007260    1.204706   101.868396
 0.57738    13.829753    43.677183     1.099820
 0.007260    0.746810    86.654695
 0.71825    13.829753    43.677183     1.099820
 0.007260    0.304021    84.074261
 0.85913    13.829753    43.677183     1.099820
```

```
 0.007260    0.142027  103.155778
 1.00000    13.829753   43.677183     1.099820
 0.007260    0.466936  126.007132

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43650   -2.578012 -145.953314   -0.778466
-0.005786   -0.862058 -160.546784
0.57738   -2.578012 -145.953314   -0.778466
-0.005786   -0.537003 -102.061948
0.71825   -2.578012 -145.953314   -0.778466
-0.005786   -0.212598  -67.465971
0.85913   -2.578012 -145.953314   -0.778466
-0.005786   -0.181899  -40.955527
1.00000   -2.578012 -145.953314   -0.778466
-0.005786   -0.643036  -18.960095
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                    MOVING          LOAD                >
                                     3013

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43650   11.677533   76.308345    1.383642
 0.005445    1.527789  178.091894
0.57738   11.677533   76.308345    1.383642
 0.005445    0.950166  148.496109
0.71825   11.677533   76.308345    1.383642
 0.005445    0.383513  128.249148
0.85913   11.677533   76.308345    1.383642
 0.005445    0.153087  124.651864
1.00000   11.677533   76.308345    1.383642
 0.005445    0.534800  124.542276

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43650   -6.721479 -123.632265   -0.913472
-0.004356   -1.012527 -147.579820
0.57738   -6.721479 -123.632265   -0.913472
-0.004356   -0.630598  -97.768701
0.71825   -6.721479 -123.632265   -0.913472
-0.004356   -0.249193  -65.253211
0.85913   -6.721479 -123.632265   -0.913472
-0.004356   -0.215612  -39.439843
1.00000   -6.721479 -123.632265   -0.913472
-0.004356   -0.795601  -18.050245

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43650   10.210376   77.936150    1.631050
 0.004544    1.805337  153.895366
0.57738   10.210376   77.936150    1.631050
 0.004544    1.123307  126.962866
0.71825   10.210376   77.936150    1.631050
 0.004544    0.450504  108.122650
0.85913   10.210376   77.936150    1.631050
 0.004544    0.178043  105.359726
1.00000   10.210376   77.936150    1.631050
 0.004544    0.643282  108.207928

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43650   -8.962264 -110.481616   -1.110825
-0.004161   -1.232628 -136.004289
0.57738   -8.962264 -110.481616   -1.110825
-0.004161   -0.767699  -96.205376
0.71825   -8.962264 -110.481616   -1.110825
-0.004161   -0.302768  -71.010500
0.85913   -8.962264 -110.481616   -1.110825
-0.004161   -0.248838  -53.118508
1.00000   -8.962264 -110.481616   -1.110825
-0.004161   -0.932624  -40.410541

COMB       DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43650   15.039721   85.024160    1.002778
 0.007326    1.104021  193.414427
0.57738   15.039721   85.024160    1.002778
 0.007326    0.683841  161.109202
0.71825   15.039721   85.024160    1.002778
 0.007326    0.274609  138.822990
0.85913   15.039721   85.024160    1.002778
 0.007326    0.113213  132.029375
1.00000   15.039721   85.024160    1.002778
 0.007326    0.492683  129.126284

COMB       DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43650  -10.911996 -153.588204   -0.862720
-0.005756   -0.960649 -166.933508
0.57738  -10.911996 -153.588204   -0.862720
-0.005756   -0.598699 -109.420921
0.71825  -10.911996 -153.588204   -0.862720
-0.005756   -0.236663  -73.546403
0.85913  -10.911996 -153.588204   -0.862720
-0.005756   -0.159046  -53.141120
1.00000  -10.911996 -153.588204   -0.862720
-0.005756   -0.579237  -62.406689
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                    MOVING          LOAD                >
                                     3014

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43650   13.829753   81.424672    1.631050
 0.007260    1.805337  191.841443
0.57738   13.829753   81.424672    1.631050
 0.007260    1.123307  162.675941
0.71825   13.829753   81.424672    1.631050
 0.007260    0.450504  142.532476
0.85913   13.829753   81.424672    1.631050
 0.007260    0.178043  135.569883
1.00000   13.829753   81.424672    1.631050
 0.007260    0.643282  132.329538

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43650  -10.431478 -145.953314   -1.110825
-0.005786   -1.232628 -160.546784
0.57738  -10.431478 -145.953314   -1.110825
-0.005786   -0.767699 -102.061948
0.71825  -10.431478 -145.953314   -1.110825
-0.005786   -0.302768  -71.010500
0.85913  -10.431478 -145.953314   -1.110825
-0.005786   -0.248838  -58.308475
1.00000  -10.431478 -145.953314   -1.110825
-0.005786   -0.932624  -69.632964

COMB       CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43650   15.039721   85.024160    1.631050
 0.007326    1.805337  193.414427
0.57738   15.039721   85.024160    1.631050
 0.007326    1.123307  162.675941
0.71825   15.039721   85.024160    1.631050
 0.007326    0.450504  142.532476
0.85913   15.039721   85.024160    1.631050
 0.007326    0.178043  135.569883
1.00000   15.039721   85.024160    1.631050
 0.007326    0.643282  132.329538

COMB       CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43650  -10.911996 -153.588204   -1.110825
-0.005786   -1.232628 -166.933508
0.57738  -10.911996 -153.588204   -1.110825
-0.005786   -0.767699 -109.420921
0.71825  -10.911996 -153.588204   -1.110825
-0.005786   -0.302768  -73.546403
0.85913  -10.911996 -153.588204   -1.110825
-0.005786   -0.248838  -58.308475
1.00000  -10.911996 -153.588204   -1.110825
-0.005786   -0.932624  -69.632964
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                    MOVING          LOAD                >
                                     3015

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      281 ================ LENGTH
=     2.977120

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.468224   11.974477    0.422284
 6.90E-06    0.236696    9.786133
0.14083    1.468224   11.974477    0.422284
 6.90E-06    0.059606   14.199857
0.28167    1.468224   11.974477    0.422284
 6.90E-06    0.119482   18.725733
0.42250    1.468224   11.974477    0.422284
 6.90E-06    0.300563   23.305713
0.56334    1.468224   11.974477    0.422284
 6.90E-06    0.481636   27.904840

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -3.254703  -11.012541   -0.431869
-0.000608   -0.242674  -41.578199
0.14083   -3.254703  -11.012541   -0.431869
-0.000608   -0.061599  -46.298047
0.28167   -3.254703  -11.012541   -0.431869
-0.000608   -0.117459  -51.048469
0.42250   -3.254703  -11.012541   -0.431869
-0.000608   -0.294470  -55.814807
0.56334   -3.254703  -11.012541   -0.431869
-0.000608   -0.471523  -60.670606

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.975010   34.533098    0.694279
 0.000187    0.390140   16.754067
0.14083    1.975010   34.533098    0.694279
 0.000187    0.099038   21.879268
0.28167    1.975010   34.533098    0.694279
 0.000187    0.194759   27.456413
0.42250    1.975010   34.533098    0.694279
 0.000187    0.490051   34.069587
0.56334    1.975010   34.533098    0.694279
 0.000187    0.785286   41.201073

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -7.642025  -17.470137   -0.704175
-0.001298   -0.396128  -62.425699
0.14083   -7.642025  -17.470137   -0.704175
-0.001298   -0.101099  -73.774723
0.28167   -7.642025  -17.470137   -0.704175
-0.001298   -0.193460  -85.444769
0.42250   -7.642025  -17.470137   -0.704175
-0.001298   -0.483924  -97.690146
0.56334   -7.642025  -17.470137   -0.704175
-0.001298   -0.774963 -111.231011

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.868560   83.483919    0.849016
 0.000135    0.472789   57.304839
0.14083    1.868560   83.483919    0.849016
 0.000135    0.116865   46.758918
0.28167    1.868560   83.483919    0.849016
 0.000135    0.206138   48.265510
0.42250    1.868560   83.483919    0.849016
 0.000135    0.519326   52.590709
0.56334    1.868560   83.483919    0.849016
 0.000135    0.832433   57.794567

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.807208  -17.607027   -0.746803
-0.001451   -0.420055  -54.859113
0.14083  -10.807208  -17.607027   -0.746803
-0.001451   -0.106833  -61.111944
0.28167  -10.807208  -17.607027   -0.746803
-0.001451   -0.239527  -76.288903
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                    MOVING          LOAD                >
                                     3016

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.42250  -10.807208  -17.607027   -0.746803
-0.001451   -0.595437 -109.775029
0.56334  -10.807208  -17.607027   -0.746803
-0.001451   -0.951411 -144.179027

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    6.041961  111.836196    0.938036
 0.003823    0.537813  124.819348
0.14083    6.041961  111.836196    0.938036
 0.003823    0.145201  116.872995
0.28167    6.041961  111.836196    0.938036
 0.003823    0.247406  118.715253
0.42250    6.041961  111.836196    0.938036
 0.003823    0.563778  132.163057
0.56334    6.041961  111.836196    0.938036
 0.003823    0.903449  154.176477

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -11.266631  -59.117628   -0.810184
-0.004698   -0.463619  -48.999367
0.14083  -11.266631  -59.117628   -0.810184
-0.004698   -0.129295  -56.394644
0.28167  -11.266631  -59.117628   -0.810184
-0.004698   -0.261923  -71.454875
0.42250  -11.266631  -59.117628   -0.810184
-0.004698   -0.643412 -101.267143
0.56334  -11.266631  -59.117628   -0.810184
-0.004698   -1.035882 -140.521002

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.728888   34.652678    0.285075
 9.11E-06    0.157962   13.174854
0.14083    0.728888   34.652678    0.285075
 9.11E-06    0.158854   10.885295
0.28167    0.728888   34.652678    0.285075
 9.11E-06    0.071892   11.094365
0.42250    0.728888   34.652678    0.285075
 9.11E-06    0.181358   11.965845
0.56334    0.728888   34.652678    0.285075
 9.11E-06    0.290740   13.040676

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.320854   -6.118873   -0.260910
-0.000580   -0.146835   -6.130486
0.14083   -5.320854   -6.118873   -0.260910
-0.000580   -0.037393  -16.815052
0.28167   -5.320854   -6.118873   -0.260910
-0.000580   -0.081222  -29.649861
0.42250   -5.320854   -6.118873   -0.260910
-0.000580   -0.200657  -43.271846
0.56334   -5.320854   -6.118873   -0.260910
-0.000580   -0.320182  -57.640209

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.778948  129.394678    0.557743
 0.004850    0.329028  129.380207
0.14083    1.778948  129.394678    0.557743
 0.004850    0.096220   91.282469
0.28167    1.778948  129.394678    0.557743
 0.004850    0.100600   66.084499
0.42250    1.778948  129.394678    0.557743
 0.004850    0.253805   56.660342
0.56334    1.778948  129.394678    0.557743
 0.004850    0.406924   58.900982

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.509309  -13.875494   -0.365216
-0.005663   -0.216930  -12.585538
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                    MOVING          LOAD                >
                                     3017

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.14083  -10.509309  -13.875494   -0.365216
-0.005663   -0.071187  -14.346849
0.28167  -10.509309  -13.875494   -0.365216
-0.005663   -0.156639  -26.287878
0.42250  -10.509309  -13.875494   -0.365216
-0.005663   -0.343719  -57.555752
0.56334  -10.509309  -13.875494   -0.365216
-0.005663   -0.607030 -101.691276

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.020407  127.587545    0.825125
 0.004383    0.477341  122.455878
0.14083    2.020407  127.587545    0.825125
 0.004383    0.132308   91.623324
0.28167    2.020407  127.587545    0.825125
 0.004383    0.247460   72.299124
0.42250    2.020407  127.587545    0.825125
 0.004383    0.457579   67.179270
0.56334    2.020407  127.587545    0.825125
 0.004383    0.733418   72.607648

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.499168  -20.675872   -0.657904
-0.005600   -0.380199  -42.426611
0.14083  -12.499168  -20.675872   -0.657904
-0.005600   -0.111003  -48.209249
0.28167  -12.499168  -20.675872   -0.657904
-0.005600   -0.230813  -63.530294
0.42250  -12.499168  -20.675872   -0.657904
-0.005600   -0.562155  -96.160045
0.56334  -12.499168  -20.675872   -0.657904
-0.005600   -0.907083 -140.277166

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.528821  106.777333    0.940982
 0.003474    0.536848  108.473675
0.14083    7.528821  106.777333    0.940982
 0.003474    0.142881  109.739168
0.28167    7.528821  106.777333    0.940982
 0.003474    0.227939  120.961269
0.42250    7.528821  106.777333    0.940982
 0.003474    0.573560  142.221998
0.56334    7.528821  106.777333    0.940982
 0.003474    0.919120  170.562394

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.611897  -73.620273   -0.824189
-0.003905   -0.469850   -40.573831
0.14083  -10.611897  -73.620273   -0.824189
-0.003905   -0.128648   -48.473165
0.28167  -10.611897  -73.620273   -0.824189
-0.003905   -0.262919   -64.261613
0.42250  -10.611897  -73.620273   -0.824189
-0.003905   -0.647849   -94.963302
0.56334  -10.611897  -73.620273   -0.824189
-0.003905   -1.041699  -133.395582

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.453391   15.523631    0.468323
 0.001119    0.262985    3.164259
0.14083    8.453391   15.523631    0.468323
 0.001119    0.066623   16.689785
0.28167    8.453391   15.523631    0.468323
 0.001119    0.133853   44.482447
0.42250    8.453391   15.523631    0.468323
 0.001119    0.336350   72.503516
0.56334    8.453391   15.523631    0.468323
 0.001119    0.538833  100.582622
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                    MOVING          LOAD                >
                                     3018

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -0.905909  -67.117054   -0.482935
-1.95E-05   -0.271126  -13.149590
0.14083   -0.905909  -67.117054   -0.482935
-1.95E-05   -0.068589  -15.594838
0.28167   -0.905909  -67.117054   -0.482935
-1.95E-05   -0.129765  -21.218672
0.42250   -0.905909  -67.117054   -0.482935
-1.95E-05   -0.326097  -27.150237
0.56334   -0.905909  -67.117054   -0.482935
-1.95E-05   -0.522453  -33.555742

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.500875   99.422929    0.727119
 0.007145    0.431658  117.679598
0.14083   11.500875   99.422929    0.727119
 0.007145    0.127860  114.258017
0.28167   11.500875   99.422929    0.727119
 0.007145    0.170926  120.021612
0.42250   11.500875   99.422929    0.727119
 0.007145    0.429460  143.098281
0.56334   11.500875   99.422929    0.727119
 0.007145    0.687955  179.625786

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.267061  -92.046593   -0.616535
-0.005977   -0.359874  -12.327866
0.14083   -5.267061  -92.046593   -0.616535
-0.005977   -0.110296  -19.462434
0.28167   -5.267061  -92.046593   -0.616535
-0.005977   -0.199552  -26.758354
0.42250   -5.267061  -92.046593   -0.616535
-0.005977   -0.484782  -37.574596
0.56334   -5.267061  -92.046593   -0.616535
-0.005977   -0.788243  -66.915657

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   10.217178  120.602133    0.875173
 0.005108    0.504302  111.476888
0.14083   10.217178  120.602133    0.875173
 0.005108    0.138195  107.119767
0.28167   10.217178  120.602133    0.875173
 0.005108    0.200525  116.810732
0.42250   10.217178  120.602133    0.875173
 0.005108    0.504527  139.801677
0.56334   10.217178  120.602133    0.875173
 0.005108    0.808501  172.619162

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -8.775783  -85.813790   -0.725003
-0.004624   -0.416902  -13.633942
0.14083   -8.775783  -85.813790   -0.725003
-0.004624   -0.119095  -18.475160
0.28167   -8.775783  -85.813790   -0.725003
-0.004624   -0.244631  -33.249419
0.42250   -8.775783  -85.813790   -0.725003
-0.004624   -0.598049  -65.075341
0.56334   -8.775783  -85.813790   -0.725003
-0.004624   -0.964040 -107.198369

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.054002  112.800578    0.982158
 0.004232    0.562102   96.332676
0.14083    9.054002  112.800578    0.982158
 0.004232    0.150944   95.208949
0.28167    9.054002  112.800578    0.982158
 0.004232    0.238152  105.916527
0.42250    9.054002  112.800578    0.982158
 0.004232    0.592252  127.713157
0.56334    9.054002  112.800578    0.982158
 0.004232    0.960266  157.640150
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                         Page
<                    MOVING          LOAD                >
                                     3019

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.404928  -77.663913   -0.861046
-0.004252   -0.491664   -34.949163
0.14083  -10.404928  -77.663913   -0.861046
-0.004252   -0.135708   -43.512527
0.28167  -10.404928  -77.663913   -0.861046
-0.004252   -0.273923   -59.961322
0.42250  -10.404928  -77.663913   -0.861046
-0.004252   -0.674557   -91.068845
0.56334  -10.404928  -77.663913   -0.861046
-0.004252   -1.085568  -131.118217

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.880712   14.687233    0.718100
 4.03E-06    0.399379   12.720757
0.14083    1.880712   14.687233    0.718100
 4.03E-06    0.098568   18.452314
0.28167    1.880712   14.687233    0.718100
 4.03E-06    0.168166   24.246451
0.42250    1.880712   14.687233    0.718100
 4.03E-06    0.425476   30.075967
0.56334    1.880712   14.687233    0.718100
 4.03E-06    0.682270   35.918877

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -2.969513  -13.976868   -0.612302
-0.000578   -0.344910   -47.874815
0.14083   -2.969513  -13.976868   -0.612302
-0.000578   -0.087211   -53.745074
0.28167   -2.969513  -13.976868   -0.612302
-0.000578   -0.201773   -59.713109
0.42250   -2.969513  -13.976868   -0.612302
-0.000578   -0.502684   -65.723195
0.56334   -2.969513  -13.976868   -0.612302
-0.000578   -0.803633   -71.761472

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.310802   37.496873    1.245670
 0.000113    0.694457   19.099883
0.14083    2.310802   37.496873    1.245670
 0.000113    0.172939   26.533165
0.28167    2.310802   37.496873    1.245670
 0.000113    0.267131   34.514298
0.42250    2.310802   37.496873    1.245670
```

0.000113 0.676066 42.991528
0.56334 2.310802 37.496873 1.245670
0.000113 1.084198 51.862937

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.755150	-21.700761	-0.973082
-0.001167	-0.547474	-69.659234	
0.14083	-7.755150	-21.700761	-0.973082
-0.001167	-0.138583	-82.394259	
0.28167	-7.755150	-21.700761	-0.973082
-0.001167	-0.348977	-95.704075	
0.42250	-7.755150	-21.700761	-0.973082
-0.001167	-0.870600	-110.159197	
0.56334	-7.755150	-21.700761	-0.973082
-0.001167	-1.392712	-125.397364	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.280682	80.597139	1.445723
0.000133	0.805241	69.648790	
0.14083	2.280682	80.597139	1.445723
0.000133	0.200426	59.388372	
0.28167	2.280682	80.597139	1.445723
0.000133	0.279515	56.201081	
0.42250	2.280682	80.597139	1.445723
0.000133	0.708223	61.241334	
0.56334	2.280682	80.597139	1.445723
0.000133	1.136937	68.500273	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.350175	-22.191348	-1.021250
-0.001317	-0.573707	-60.964861	
0.14083	-10.350175	-22.191348	-1.021250
-0.001317	-0.144986	-69.514246	
0.28167	-10.350175	-22.191348	-1.021250
-0.001317	-0.406678	-84.651217	
0.42250	-10.350175	-22.191348	-1.021250
-0.001317	-1.011871	-114.927671	
0.56334	-10.350175	-22.191348	-1.021250
-0.001317	-1.617763	-147.278269	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.015839	102.572203	1.563873
0.003081	0.885609	130.531164	
0.14083	6.015839	102.572203	1.563873
0.003081	0.231453	126.061894	
0.28167	6.015839	102.572203	1.563873
0.003081	0.299034	127.512846	
0.42250	6.015839	102.572203	1.563873
0.003081	0.756106	142.582581	
0.56334	6.015839	102.572203	1.563873
0.003081	1.212608	164.772347	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.616262	-60.815374	-1.091112
-0.003790	-0.625918	-54.421607	
0.14083	-10.616262	-60.815374	-1.091112
-0.003790	-0.168628	-64.147208	
0.28167	-10.616262	-60.815374	-1.091112
-0.003790	-0.436288	-79.564383	
0.42250	-10.616262	-60.815374	-1.091112
-0.003790	-1.082831	-107.349086	
0.56334	-10.616262	-60.815374	-1.091112
-0.003790	-1.736300	-146.380082	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.594068	32.074483	0.539749
5.15E-06	0.300929	13.429139	
0.14083	0.594068	32.074483	0.539749
5.15E-06	0.075317	10.484994	
0.28167	0.594068	32.074483	0.539749
5.15E-06	0.093112	11.343110	
0.42250	0.594068	32.074483	0.539749
5.15E-06	0.235750	13.039064	
0.56334	0.594068	32.074483	0.539749
5.15E-06	0.378586	15.085570	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.646429	-6.963435	-0.339800
-0.000524	-0.190366	-12.236650	
0.14083	-5.646429	-6.963435	-0.339800
-0.000524	-0.047922	-17.619051	
0.28167	-5.646429	-6.963435	-0.339800
-0.000524	-0.151425	-25.757121	
0.42250	-5.646429	-6.963435	-0.339800
-0.000524	-0.377255	-41.178343	
0.56334	-5.646429	-6.963435	-0.339800
-0.000524	-0.603457	-54.077456	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.699483	115.134264	0.880734
0.004162	0.511036	132.346199	
0.14083	1.699483	115.134264	0.880734
0.004162	0.143136	96.723915	
0.28167	1.699483	115.134264	0.880734
0.004162	0.129813	69.049118	
0.42250	1.699483	115.134264	0.880734
0.004162	0.328919	60.714096	
0.56334	1.699483	115.134264	0.880734
0.004162	0.528308	62.539646	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.067776	-15.250864	-0.478164
-0.004857	-0.287540	-11.864252	
0.14083	-10.067776	-15.250864	-0.478164
-0.004857	-0.088420	-14.257615	
0.28167	-10.067776	-15.250864	-0.478164
-0.004857	-0.244757	-25.060707	
0.42250	-10.067776	-15.250864	-0.478164
-0.004857	-0.600325	-51.383884	
0.56334	-10.067776	-15.250864	-0.478164
-0.004857	-0.966437	-94.149229	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.189407	117.126831	1.364226
0.003767	0.778240	127.169647	
0.14083	2.189407	117.126831	1.364226
0.003767	0.207729	99.239987	
0.28167	2.189407	117.126831	1.364226
0.003767	0.242654	78.579605	
0.42250	2.189407	117.126831	1.364226
0.003767	0.613692	75.396068	
0.56334	2.189407	117.126831	1.364226
0.003767	0.984440	81.325309	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.016709	-23.972496	-0.887069
-0.004853	-0.515894	-45.546377	
0.14083	-12.016709	-23.972496	-0.887069
-0.004853	-0.144340	-52.969504	
0.28167	-12.016709	-23.972496	-0.887069
-0.004853	-0.380474	-68.407438	
0.42250	-12.016709	-23.972496	-0.887069
-0.004853	-0.939953	-97.617865	
0.56334	-12.016709	-23.972496	-0.887069
-0.004853	-1.509175	-141.664243	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.023584	99.196099	1.584264
0.002798	0.896368	114.179176	
0.14083	7.023584	99.196099	1.584264
0.002798	0.233228	117.001135	
0.28167	7.023584	99.196099	1.584264
0.002798	0.297232	126.024143	
0.42250	7.023584	99.196099	1.584264
0.002798	0.750470	147.654288	
0.56334	7.023584	99.196099	1.584264
0.002798	1.203451	175.300050	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.285340	-73.057447	-1.082022
-0.003195	-0.618351	-44.122051	
0.14083	-10.285340	-73.057447	-1.082022
-0.003195	-0.164971	-54.219766	
0.28167	-10.285340	-73.057447	-1.082022
-0.003195	-0.440771	-71.003846	
0.42250	-10.285340	-73.057447	-1.082022
-0.003195	-1.097548	-99.717415	
0.56334	-10.285340	-73.057447	-1.082022
-0.003195	-1.759986	-137.877690	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.401655	18.896256	0.783459
0.001033	0.441554	3.733512	
0.14083	7.401655	18.896256	0.783459
0.001033	0.112959	16.303483	
0.28167	7.401655	18.896256	0.783459
0.001033	0.165698	41.700958	
0.42250	7.401655	18.896256	0.783459
0.001033	0.416372	67.603902	
0.56334	7.401655	18.896256	0.783459
0.001033	0.667096	93.763676	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.383389	-63.116351	-0.597994
-1.42E-05	-0.335774	-23.904719	
0.14083	-1.383389	-63.116351	-0.597994
-1.42E-05	-0.085127	-21.684483	
0.28167	-1.383389	-63.116351	-0.597994
-1.42E-05	-0.215413	-28.220742	
0.42250	-1.383389	-63.116351	-0.597994
-1.42E-05	-0.544316	-35.486390	
0.56334	-1.383389	-63.116351	-0.597994
-1.42E-05	-0.872554	-43.126364	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.226843	100.270949	1.137433
0.007023	0.697979	126.045959	
0.14083	10.226843	100.270949	1.137433
0.007023	0.191209	121.018176	
0.28167	10.226843	100.270949	1.137433
0.007023	0.214385	123.523081	
0.42250	10.226843	100.270949	1.137433
0.007023	0.538211	142.403399	
0.56334	10.226843	100.270949	1.137433
0.007023	0.862816	174.018841	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.736947	-86.367638	-0.777948
-0.005934	-0.465074	-18.952527	
0.14083	-5.736947	-86.367638	-0.777948
-0.005934	-0.140316	-24.639338	
0.28167	-5.736947	-86.367638	-0.777948
-0.005934	-0.309715	-33.531568	
0.42250	-5.736947	-86.367638	-0.777948
-0.005934	-0.768697	-46.201235	
0.56334	-5.736947	-86.367638	-0.777948
-0.005934	-1.241322	-81.350394	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.106825	116.851985	1.408089
0.005214	0.810494	124.556616	
0.14083	9.106825	116.851985	1.408089
0.005214	0.220620	115.009796	
0.28167	9.106825	116.851985	1.408089
0.005214	0.250763	116.532160	
0.42250	9.106825	116.851985	1.408089
0.005214	0.631769	136.300004	
0.56334	9.106825	116.851985	1.408089
0.005214	1.013269	165.808741	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.972356	-80.808657	-0.912986
-0.004703	-0.532773	-18.042010	
0.14083	-8.972356	-80.808657	-0.912986
-0.004703	-0.251028	-24.460860	
0.28167	-8.972356	-80.808657	-0.912986
-0.004703	-0.388372	-37.824923	
0.42250	-8.972356	-80.808657	-0.912986
-0.004703	-0.965471	-65.357953	
0.56334	-8.972356	-80.808657	-0.912986
-0.004703	-1.552136	-108.949839	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.073251	111.485012	1.643499
0.004330	0.937463	108.226611	
0.14083	8.073251	111.485012	1.643499
0.004330	0.249008	103.511818	
0.28167	8.073251	111.485012	1.643499
0.004330	0.304965	107.932123	
0.42250	8.073251	111.485012	1.643499
0.004330	0.769246	127.557501	
0.56334	8.073251	111.485012	1.643499
0.004330	1.233588	155.331105	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.811897	-74.943144	-1.110004
-0.004308	-0.639917	-40.415534	
0.14083	-10.811897	-74.943144	-1.110004
-0.004308	-0.175040	-49.427511	
0.28167	-10.811897	-74.943144	-1.110004
-0.004308	-0.455005	-67.357789	
0.42250	-10.811897	-74.943144	-1.110004
-0.004308	-1.132992	-95.914816	
0.56334	-10.811897	-74.943144	-1.110004
-0.004308	-1.818963	-138.056242	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.500875	129.394678	0.982158
0.007145	0.562102	129.380207	
0.14083	11.500875	129.394678	0.982158
0.007145	0.150944	116.872995	
0.28167	11.500875	129.394678	0.982158
0.007145	0.238152	120.961269	
0.42250	11.500875	129.394678	0.982158
0.007145	0.599252	143.098281	
0.56334	11.500875	129.394678	0.982158
0.007145	0.960266	179.625786	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.499168	-92.046593	-0.861046
-0.005977	-0.491664	-62.425699	
0.14083	-12.499168	-92.046593	-0.861046
-0.005977	-0.135708	-73.774723	
0.28167	-12.499168	-92.046593	-0.861046
-0.005977	-0.273923	-85.444769	
0.42250	-12.499168	-92.046593	-0.861046
-0.005977	-0.657557	-109.775029	
0.56334	-12.499168	-92.046593	-0.861046
-0.005977	-1.085568	-144.179027	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.226843	117.126831	1.643499
0.007023	0.937463	132.346199	
0.14083	10.226843	117.126831	1.643499
0.007023	0.249008	126.061894	
0.28167	10.226843	117.126831	1.643499
0.007023	0.304965	127.512846	
0.42250	10.226843	117.126831	1.643499
0.007023	0.769246	147.654288	
0.56334	10.226843	117.126831	1.643499
0.007023	1.233588	175.300050	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.016709	-86.367638	-1.110004
-0.005934	-0.639917	-69.659234	
0.14083	-12.016709	-86.367638	-1.110004
-0.005934	-0.175040	-82.394259	
0.28167	-12.016709	-86.367638	-1.110004
-0.005934	-0.455005	-95.704075	
0.42250	-12.016709	-86.367638	-1.110004
-0.005934	-1.132992	-114.927671	
0.56334	-12.016709	-86.367638	-1.110004
-0.005934	-1.818963	-147.278269	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.500875	129.394678	1.643499
0.007145	0.937463	132.346199	
0.14083	11.500875	129.394678	1.643499
0.007145	0.249008	126.061894	
0.28167	11.500875	129.394678	1.643499
0.007145	0.304965	127.512846	
0.42250	11.500875	129.394678	1.643499
0.007145	0.769246	147.654288	
0.56334	11.500875	129.394678	1.643499
0.007145	1.233588	179.625786	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.499168	-92.046593	-1.110004
-0.005977	-0.639917	-69.659234	
0.14083	-12.499168	-92.046593	-1.110004
-0.005977	-0.175040	-82.394259	
0.28167	-12.499168	-92.046593	-1.110004
-0.005977	-0.455005	-95.704075	
0.42250	-12.499168	-92.046593	-1.110004
-0.005977	-1.132992	-114.927671	
0.56334	-12.499168	-92.046593	-1.110004
-0.005977	-1.818963	-147.278269	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.500875	129.394678	1.643499
0.007145	0.937463	132.346199	
0.14083	11.500875	129.394678	1.643499
0.007145	0.249008	126.061894	
0.28167	11.500875	129.394678	1.643499
0.007145	0.304965	127.512846	
0.42250	11.500875	129.394678	1.643499
0.007145	0.769246	147.654288	
0.56334	11.500875	129.394678	1.643499
0.007145	1.233588	179.625786	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.499168	-92.046593	-1.110004
-0.005977	-0.639917	-69.659234	
0.14083	-12.499168	-92.046593	-1.110004
-0.005977	-0.175040	-82.394259	
0.28167	-12.499168	-92.046593	-1.110004
-0.005977	-0.455005	-95.704075	
0.42250	-12.499168	-92.046593	-1.110004
-0.005977	-1.132992	-114.927671	
0.56334	-12.499168	-92.046593	-1.110004
-0.005977	-1.818963	-147.278269	

ELEM 282 ========== LENGTH = 2.976802

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	2.738415	5.110084	0.458495
9.87E-06	0.509314	2.888915	
0.57753	2.738415	5.110084	0.458495
9.87E-06	0.317121	1.928186	
0.71836	2.738415	5.110084	0.458495
9.87E-06	0.124936	3.108043	
0.85918	2.738415	5.110084	0.458495
9.87E-06	0.073685	5.938820	
1.00000	2.738415	5.110084	0.458495
9.87E-06	0.285419	10.943392	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-1.610783	-16.354497	-0.504911
-0.001113	-0.561241	-21.713789	
0.57753	-1.610783	-16.354497	-0.504911
-0.001113	-0.349583	-23.324473	
0.71836	-1.610783	-16.354497	-0.504911
-0.001113	-0.137909	-24.972313	
0.85918	-1.610783	-16.354497	-0.504911
-0.001113	-0.067252	-26.762815	
1.00000	-1.610783	-16.354497	-0.504911
-0.001113	-0.259490	-28.659942	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	3.498153	17.878488	0.780617
0.000213	0.866465	16.249834	
0.57753	3.498153	17.878488	0.780617
0.000213	0.539483	11.165318	
0.71836	3.498153	17.878488	0.780617
0.000213	0.212646	7.557173	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85918	3.498153	17.878488	0.780617
0.000213	0.119524	9.354925	
1.00000	3.498153	17.878488	0.780617
0.000213	0.461875	17.614715	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-5.627609	-31.353545	-0.816399
-0.002066	-0.307766	-43.691684	
0.57753	-5.627609	-31.353545	-0.816399
-0.002066	-0.565562	-41.302763	
0.71836	-5.627609	-31.353545	-0.816399
-0.002066	-0.223335	-43.051427	
0.85918	-5.627609	-31.353545	-0.816399
-0.002066	-0.115273	-45.710263	
1.00000	-5.627609	-31.353545	-0.816399
-0.002066	-0.442491	-49.739220	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	3.405907	63.948093	1.006044
6.52E-06	1.118660	129.682669	
0.57753	3.405907	63.948093	1.006044
6.52E-06	0.696933	104.825436	
0.71836	3.405907	63.948093	1.006044
6.52E-06	0.275245	80.917820	
0.85918	3.405907	63.948093	1.006044
6.52E-06	0.125822	61.340461	
1.00000	3.405907	63.948093	1.006044
6.52E-06	0.489844	48.007439	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-8.671277	-35.126630	-0.867925
-0.001671	-0.965510	-53.625031	
0.57753	-8.671277	-35.126630	-0.867925
-0.001671	-0.601718	-48.539255	
0.71836	-8.671277	-35.126630	-0.867925
-0.001671	-0.237744	-45.853549	
0.85918	-8.671277	-35.126630	-0.867925
-0.001671	-0.146551	-43.597419	
1.00000	-8.671277	-35.126630	-0.867925
-0.001671	-0.568286	-41.638772	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.058500	63.404254	1.071003
0.004089	1.179324	130.451794	
0.57753	9.058500	63.404254	1.071003
0.004089	0.734906	106.730990	
0.71836	9.058500	63.404254	1.071003
0.004089	0.293286	90.267819	
0.85918	9.058500	63.404254	1.071003
0.004089	0.146240	92.007758	
1.00000	9.058500	63.404254	1.071003
0.004089	0.523991	110.200258	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-7.995023	-106.187803	-0.902006
-0.004822	-1.001710	-104.309729	
0.57753	-7.995023	-106.187803	-0.902006
-0.004822	-0.624212	-70.063370	
0.71836	-7.995023	-106.187803	-0.902006
-0.004822	-0.246554	-49.797463	
0.85918	-7.995023	-106.187803	-0.902006
-0.004822	-0.168895	-36.890173	
1.00000	-7.995023	-106.187803	-0.902006
-0.004822	-0.616589	-38.237691	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.586960	25.034619	0.367677
1.27E-05	0.408654	41.665093	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57753	0.586960	25.034619	0.367677
1.27E-05	0.254542	31.503238	
0.71836	0.586960	25.034619	0.367677
1.27E-05	0.100459	21.829426	
0.85918	0.586960	25.034619	0.367677
1.27E-05	0.043032	14.216795	
1.00000	0.586960	25.034619	0.367677
1.27E-05	0.167998	10.691395	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-5.043747	-14.564060	-0.298060
-0.000726	-0.331798	-27.031755	
0.57753	-5.043747	-14.564060	-0.298060
-0.000726	-0.206860	-21.184914	
0.71836	-5.043747	-14.564060	-0.298060
-0.000726	-0.081907	-18.307156	
0.85918	-5.043747	-14.564060	-0.298060
-0.000726	-0.053867	-16.093113	
1.00000	-5.043747	-14.564060	-0.298060
-0.000726	-0.207900	-14.622656	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	4.923863	68.178644	0.699163
0.004867	0.759272	156.134089	
0.57753	4.923863	68.178644	0.699163
0.004867	0.472381	129.120791	
0.71836	4.923863	68.178644	0.699163
0.004867	0.189212	110.245421	
0.85918	4.923863	68.178644	0.699163

```
 0.004867    0.079974  109.624203
 1.00000     4.923863   68.178644     0.699163
 0.004867    0.250952  112.905536

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -7.521522  -77.698692  -0.409472
-0.005280   -0.453733  -61.080928
0.57753    -7.521522  -77.698692  -0.409472
-0.005280   -0.282933  -31.750002
0.71836    -7.521522  -77.698692  -0.409472
-0.005280   -0.111939  -21.472744
0.85918    -7.521522  -77.698692  -0.409472
-0.005280   -0.120911  -16.643926
1.00000    -7.521522  -77.698692  -0.409472
-0.005280   -0.413085  -12.743931

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     5.867410   66.310103     0.978150
 0.004398    1.070989  141.501307
0.57753     5.867410   66.310103     0.978150
 0.004398    0.666549  116.867581
0.71836     5.867410   66.310103     0.978150
 0.004398    0.265465   99.576413
0.85918     5.867410   66.310103     0.978150
 0.004398    0.127845   99.939238
1.00000     5.867410   66.310103     0.978150
 0.004398    0.442508  108.254928

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -8.907161  -83.116452  -0.751918
-0.005612   -0.834642  -70.885436
0.57753    -8.907161  -83.116452  -0.751918
-0.005612   -0.520207  -46.479888
0.71836    -8.907161  -83.116452  -0.751918
-0.005612   -0.205591  -38.854492
0.85918    -8.907161  -83.116452  -0.751918
-0.005612   -0.159911  -36.125421
1.00000    -8.907161  -83.116452  -0.751918
-0.005612   -0.569163  -34.233539
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                            3027

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     9.230899   69.686676     1.046118
 0.003768    1.152587  137.127734
0.57753     9.230899   69.686676     1.046118
 0.003768    0.717729  110.745887
0.71836     9.230899   69.686676     1.046118
 0.003768    0.285080   89.536668
0.85918     9.230899   69.686676     1.046118
 0.003768    0.141999   82.031681
1.00000     9.230899   69.686676     1.046118
 0.003768    0.516277   93.927499

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -8.684321  -107.909777   -0.893601
-0.003923   -0.992833  -121.053890
0.57753    -8.684321  -107.909777   -0.893601
-0.003923   -0.618747   -84.023613
0.71836    -8.684321  -107.909777   -0.893601
-0.003923   -0.244505   -58.349407
0.85918    -8.684321  -107.909777   -0.893601
-0.003923   -0.163515   -35.948239
1.00000    -8.684321  -107.909777   -0.893601
-0.003923   -0.601538   -34.477216

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     6.386209   28.300681     0.439231
 0.001335    0.488888   38.525551
0.57753     6.386209   28.300681     0.439231
 0.001335    0.304771   26.780673
0.71836     6.386209   28.300681     0.439231
 0.001335    0.120659   15.217693
0.85918     6.386209   28.300681     0.439231
 0.001335    0.068236    4.468698
1.00000     6.386209   28.300681     0.439231
 0.001335    0.265247    2.953593

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -2.692365   -49.276851   -0.469817
-7.39E-06   -0.522567   -95.577280
0.57753    -2.692365   -49.276851   -0.469817
-7.39E-06   -0.325621   -74.929207
0.71836    -2.692365   -49.276851   -0.469817
-7.39E-06   -0.128669   -54.339352
0.85918    -2.692365   -49.276851   -0.469817
-7.39E-06   -0.063477   -33.833278
1.00000    -2.692365   -49.276851   -0.469817
-7.39E-06   -0.247615   -13.775794

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671    13.079635   53.211732     0.722658
 0.007486    0.781704  107.933900
0.57753    13.079635   53.211732     0.722658
 0.007486    0.486312   87.343425
0.71836    13.079635   53.211732     0.722658
 0.007486    0.190918   76.905454
0.85918    13.079635   53.211732     0.722658
 0.007486    0.113146   88.191764
1.00000    13.079635   53.211732     0.722658
 0.007486    0.364847  107.712678

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -4.020672  -136.158276   -0.602448
-0.005737   -0.667381  -145.264563
0.57753    -4.020672  -136.158276   -0.602448
-0.005737   -0.415815   -91.906637
0.71836    -4.020672  -136.158276   -0.602448
-0.005737   -0.164208   -58.719726
0.85918    -4.020672  -136.158276   -0.602448
-0.005737   -0.128145   -31.679677
1.00000    -4.020672  -136.158276   -0.602448
-0.005737   -0.430037   -14.175394
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                            3028

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671    10.876285   83.693278     0.956241
 0.005435    1.048742  170.662590
0.57753    10.876285   83.693278     0.956241
 0.005435    0.653063  136.994126
0.71836    10.876285   83.693278     0.956241
 0.005435    0.260490  110.364865
0.85918    10.876285   83.693278     0.956241
 0.005435    0.124276   99.210255
1.00000    10.876285   83.693278     0.956241
 0.005435    0.433130   97.045594

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -7.926722  -120.166014   -0.737946
-0.004187   -0.819351  -146.996789
0.57753    -7.926722  -120.166014   -0.737946
-0.004187   -0.510718   -99.214612
0.71836    -7.926722  -120.166014   -0.737946
-0.004187   -0.202016   -65.353993
0.85918    -7.926722  -120.166014   -0.737946
-0.004187   -0.154571   -35.865836
1.00000    -7.926722  -120.166014   -0.737946
-0.004187   -0.554676   -15.366125

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     9.877178   76.355882     1.075242
 0.004504    1.183365  145.719394
0.57753     9.877178   76.355882     1.075242
 0.004504    0.736907  116.212457
0.71836     9.877178   76.355882     1.075242
 0.004504    0.293004   92.566493
0.85918     9.877178   76.355882     1.075242
 0.004504    0.146594   83.023906
1.00000     9.877178   76.355882     1.075242
 0.004504    0.528596   84.675794

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -9.287073  -110.833333   -0.912139
-0.004166   -1.013367  -137.777183
0.57753    -9.287073  -110.833333   -0.912139
-0.004166   -0.631588   -97.566361
0.71836    -9.287073  -110.833333   -0.912139
-0.004166   -0.249658   -70.831771
0.85918    -9.287073  -110.833333   -0.912139
-0.004166   -0.191471   -47.969620
1.00000    -9.287073  -110.833333   -0.912139
-0.004166   -0.619601   -32.671593

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     4.261134    6.623936     0.850153
6.74E-06    0.944897    3.535215
0.57753     4.261134    6.623936     0.850153
6.74E-06    0.588723    2.836200
0.71836     4.261134    6.623936     0.850153
6.74E-06    0.232523    2.977804
0.85918     4.261134    6.623936     0.850153
6.74E-06    0.106834    6.813160
1.00000     4.261134    6.623936     0.850153
6.74E-06    0.417550   14.513647

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -1.457484  -20.935190   -0.739237
-0.001161   -0.821962   -38.757314
0.57753    -1.457484  -20.935190   -0.739237
-0.001161   -0.511900   -34.397005
0.71836    -1.457484  -20.935190   -0.739237
-0.001161   -0.201189   -30.413219
0.85918    -1.457484  -20.935190   -0.739237
-0.001161   -0.123110   -29.856609
1.00000    -1.457484  -20.935190   -0.739237
-0.001161   -0.479236   -32.194024
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                            3029

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     5.072512   19.175555     1.503291
 0.000134    1.669157   15.892991
0.57753     5.072512   19.175555     1.503291
 0.000134    1.039487   10.675251
0.71836     5.072512   19.175555     1.503291
 0.000134    0.409994    7.145858
0.85918     5.072512   19.175555     1.503291
 0.000134    0.182275    9.425947
1.00000     5.072512   19.175555     1.503291
 0.000134    0.660242   20.864979

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -5.263757  -38.644656   -1.170939
-0.001998   -1.302775   -70.861260
0.57753    -5.263757  -38.644656   -1.170939
-0.001998   -0.811803   -61.763565
0.71836    -5.263757  -38.644656   -1.170939
-0.001998   -0.319903   -53.622959
0.85918    -5.263757  -38.644656   -1.170939
-0.001998   -0.219590   -50.072570
1.00000    -5.263757  -38.644656   -1.170939
-0.001998   -0.849243   -53.117430

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     4.991550   58.068295     1.793531
 1.33E-05    1.993597  121.906885
0.57753     4.991550   58.068295     1.793531
 1.33E-05    1.242376  100.596279
0.71836     4.991550   58.068295     1.793531
 1.33E-05    0.491782   80.565100
0.85918     4.991550   58.068295     1.793531
 1.33E-05    0.181545   65.483419
1.00000     4.991550   58.068295     1.793531
 1.33E-05    0.715666   58.940744

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -7.709813  -43.970105   -1.272376
-0.001682   -1.416135   -76.812482
0.57753    -7.709813  -43.970105   -1.272376
-0.001682   -0.881913   -65.277117
0.71836    -7.709813  -43.970105   -1.272376
-0.001682   -0.347620   -53.768398
0.85918    -7.709813  -43.970105   -1.272376
-0.001682   -0.260194   -46.306317
1.00000    -7.709813  -43.970105   -1.272376
-0.001682   -1.010952   -44.839837

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     9.414895   61.152673     1.846608
 0.003314    2.043441  130.449507
0.57753     9.414895   61.152673     1.846608
 0.003314    1.274392  108.732986
0.71836     9.414895   61.152673     1.846608
 0.003314    0.507250   93.721082
0.85918     9.414895   61.152673     1.846608
 0.003314    0.201111   94.836184
1.00000     9.414895   61.152673     1.846608
 0.003314    0.747917  113.768700

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -7.652890  -101.315714   -1.304327
-0.004055   -1.445375  -115.709757
0.57753    -7.652890  -101.315714   -1.304327
-0.004055   -0.899605   -79.907349
0.71836    -7.652890  -101.315714   -1.304327
-0.004055   -0.354449   -54.456770
0.85918    -7.652890  -101.315714   -1.304327
-0.004055   -0.277919   -39.100958
1.00000    -7.652890  -101.315714   -1.304327
-0.004055   -1.050529   -41.168457
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                            3030

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     0.565825   21.601089     0.689025
 7.38E-06    0.764911   36.818022
0.57753     0.565825   21.601089     0.689025
 7.38E-06    0.476055   28.569265
0.71836     0.565825   21.601089     0.689025
 7.38E-06    0.187849   20.615078
0.85918     0.565825   21.601089     0.689025
 7.38E-06    0.058577   13.547708
1.00000     0.565825   21.601089     0.689025
 7.38E-06    0.233478   10.862972

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -4.594900  -17.670676   -0.417310
-0.000656   -0.465027   -32.059925
0.57753    -4.594900  -17.670676   -0.417310
-0.000656   -0.290263   -26.315596
0.71836    -4.594900  -17.670676   -0.417310
-0.000656   -0.114861   -20.758649
0.85918    -4.594900  -17.670676   -0.417310
-0.000656   -0.101457   -15.808547
1.00000    -4.594900  -17.670676   -0.417310
-0.000656   -0.389438   -13.755326

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     4.512972   59.911918     1.109597
 0.004257    1.215721  146.999887
0.57753     4.512972   59.911918     1.109597
 0.004257    0.757288  124.469085
0.71836     4.512972   59.911918     1.109597
 0.004257    0.302267  110.014296
0.85918     4.512972   59.911918     1.109597
 0.004257    0.107940  109.565820
1.00000     4.512972   59.911918     1.109597
 0.004257    0.365818  113.566462

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -6.710145  -72.950994   -0.617589
-0.004559   -0.679633   -62.931646
0.57753    -6.710145  -72.950994   -0.617589
-0.004559   -0.422460   -35.493585
0.71836    -6.710145  -72.950994   -0.617589
-0.004559   -0.166910   -22.947987
0.85918    -6.710145  -72.950994   -0.617589
-0.004559   -0.180053   -15.806022
1.00000    -6.710145  -72.950994   -0.617589
-0.004559   -0.643525   -11.671591

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     6.314345   59.532291     1.680412
 0.003853    1.851431  133.665126
0.57753     6.314345   59.532291     1.680412
 0.003853    1.153244  112.963754
0.71836     6.314345   59.532291     1.680412
 0.003853    0.458038   99.511744
0.85918     6.314345   59.532291     1.680412
 0.003853    0.175660  100.357261
1.00000     6.314345   59.532291     1.680412
 0.003853    0.637672  110.924630

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -7.994159  -82.556640   -1.103043
-0.004977   -1.441941   -111.411473
0.57753    -7.994159  -82.556640   -1.103043
-0.004977   -0.759864   -59.840295
0.71836    -7.994159  -82.556640   -1.103043
-0.004977   -0.299709   -45.159075
0.85918    -7.994159  -82.556640   -1.103043
-0.004977   -0.261339   -36.637497
1.00000    -7.994159  -82.556640   -1.103043
-0.004977   -0.964049   -35.066669
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                            3031

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     8.856421   68.211679     1.823294
 0.003198    2.020677  136.564677
0.57753     8.856421   68.211679     1.823294
 0.003198    1.260224  111.538274
0.71836     8.856421   68.211679     1.823294
 0.003198    0.501645   91.287621
0.85918     8.856421   68.211679     1.823294
 0.003198    0.191663   82.246413
1.00000     8.856421   68.211679     1.823294
 0.003198    0.717406   96.839390

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -8.709346  -102.257336   -1.254795
-0.003306   -1.391503   -126.051904
0.57753    -8.709346  -102.257336   -1.254795
-0.003306   -0.866297   -88.408545
0.71836    -8.709346  -102.257336   -1.254795
-0.003306   -0.341470   -59.069430
0.85918    -8.709346  -102.257336   -1.254795
-0.003306   -0.271445   -35.325451
1.00000    -8.709346  -102.257336   -1.254795
-0.003306   -1.034874   -36.182989

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     5.398200   36.839004     0.741560
 0.001359    0.830851   46.233586
0.57753     5.398200   36.839004     0.741560
 0.001359    0.519784   31.147583
0.71836     5.398200   36.839004     0.741560
 0.001359    0.209038   16.690740
0.85918     5.398200   36.839004     0.741560
 0.001359    0.085683    4.444831
1.00000     5.398200   36.839004     0.741560
 0.001359    0.330096    3.478219

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -4.153295  -43.227972   -0.583239
-4.38E-06   -0.647993   -84.380710
0.57753    -4.153295  -43.227972   -0.583239
-4.38E-06   -0.403516   -66.549054
0.71836    -4.153295  -43.227972   -0.583239
-4.38E-06   -0.159131   -49.271172
0.85918    -4.153295  -43.227972   -0.583239
-4.38E-06   -0.101514   -33.889481
1.00000    -4.153295  -43.227972   -0.583239
-4.38E-06   -0.412509   -26.744727

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     11.760924   60.332286     1.122383
 0.007550    1.229296  116.461027
0.57753     11.760924   60.332286     1.122383
 0.007550    0.768546   93.423181
0.71836     11.760924   60.332286     1.122383
 0.007550    0.310556   81.891282
0.85918     11.760924   60.332286     1.122383
 0.007550    0.146236   92.170705
1.00000     11.760924   60.332286     1.122383
 0.007550    0.477199  114.379062

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -5.547183  -126.118732   -0.792977
-0.005738   -0.868762  -131.619991
0.57753    -5.547183  -126.118732   -0.792977
-0.005738   -0.540063   -80.757800
0.71836    -5.547183  -126.118732   -0.792977
-0.005738   -0.212807   -51.129329
0.85918    -5.547183  -126.118732   -0.792977
-0.005738   -0.182767   -31.200863
1.00000    -5.547183  -126.118732   -0.792977
-0.005738   -0.652276   -23.399154
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                            3032

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     9.888279   82.414656     1.528837
 0.005700    1.687849  167.026434
0.57753     9.888279   82.414656     1.528837
 0.005700    1.054286  134.726286
0.71836     9.888279   82.414656     1.528837
 0.005700    0.423312  110.711534
0.85918     9.888279   82.414656     1.528837
 0.005700    0.165924  103.002529
1.00000     9.888279   82.414656     1.528837
 0.005700    0.583657  107.716242

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -8.604587  -115.206025   -0.999776
-0.004361   -1.103266  -134.747412
0.57753    -8.604587  -115.206025   -0.999776
-0.004361   -0.685897   -88.485977
0.71836    -8.604587  -115.206025   -0.999776
-0.004361   -0.270669   -57.498871
0.85918    -8.604587  -115.206025   -0.999776
-0.004361   -0.234895   -33.992802
1.00000    -8.604587  -115.206025   -0.999776
-0.004361   -0.874385   -22.386280

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     9.446944   75.586857     1.843205
 0.004735    2.038508  142.489028
0.57753     9.446944   75.586857     1.843205
 0.004735    1.272005  114.205460
0.71836     9.446944   75.586857     1.843205
 0.004735    0.507532   92.928180
0.85918     9.446944   75.586857     1.843205
 0.004735    0.197629   86.149166
1.00000     9.446944   75.586857     1.843205
 0.004735    0.720751   94.577178

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -9.741457  -109.914395   -1.249989
-0.004315   -1.383835   -139.535325
0.57753    -9.741457  -109.914395   -1.249989
-0.004315   -0.861070   -98.110277
0.71836    -9.741457  -109.914395   -1.249989
-0.004315   -0.339754   -69.447562
0.85918    -9.741457  -109.914395   -1.249989
-0.004315   -0.278931   -47.534467
1.00000    -9.741457  -109.914395   -1.249989
-0.004315   -1.050433   -38.981774

COMB      DB ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     13.079635   83.693278     1.075242
 0.007486    1.183365  170.662590
0.57753     13.079635   83.693278     1.075242
 0.007486    0.736907  136.994126
0.71836     13.079635   83.693278     1.075242
 0.007486    0.293286  110.364865
0.85918     13.079635   83.693278     1.075242
 0.007486    0.146594  109.503203
1.00000     13.079635   83.693278     1.075242
 0.007486    0.528596  112.905536

COMB      DB ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -9.287073  -136.158276   -0.912139
-0.005737   -1.013367  -146.996789
0.57753    -9.287073  -136.158276   -0.912139
-0.005737   -0.631588   -99.214612
0.71836    -9.287073  -136.158276   -0.912139
-0.005737   -0.249658   -70.831771
0.85918    -9.287073  -136.158276   -0.912139
-0.005737   -0.169471   -47.969620
1.00000    -9.287073  -136.158276   -0.912139
-0.005737   -0.619601   -49.739220
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                            3033

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43671     11.760924   82.414656     1.846608
 0.007550    2.043441  167.026434
0.57753     11.760924   82.414656     1.846608
 0.007550    1.274392  134.726286
0.71836     11.760924   82.414656     1.846608
 0.007550    0.507532  110.711534
0.85918     11.760924   82.414656     1.846608
 0.007550    0.201111  109.565820
1.00000     11.760924   82.414656     1.846608
 0.007550    0.747917  114.379062

COMB      DL ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43671    -9.741457  -126.118732   -1.304327
```

```
-0.005738   -1.445375 -139.530825
0.57753   -9.741457 -126.118732     -1.304327
-0.005738   -0.899605   -98.110277
0.71836   -9.741457 -126.118732     -1.304327
-0.005738   -0.354449   -69.447562
0.85918   -9.741457 -126.118732     -1.304327
-0.005738   -0.278931   -50.072570
1.00000   -9.741457 -126.118732     -1.304327
-0.005738   -1.050529   -53.117430

COMB      CAR ------------------- MAX

REL DIST            P            V2           V3
          T           M2           M3
0.43671   13.079635    83.693278     1.846608
 0.007550    2.043441   170.662590
0.57753   13.079635    83.693278     1.846608
 0.007550    1.274392   136.994126
0.71836   13.079635    83.693278     1.846608
 0.007550    0.507532   110.711534
0.85918   13.079635    83.693278     1.846608
 0.007550    0.201111   109.624203
1.00000   13.079635    83.693278     1.846608
 0.007550    0.747917   114.379062

COMB      CAR ------------------- MIN

REL DIST            P            V2           V3
          T           M2           M3
0.43671   -9.741457 -136.158276     -1.304327
-0.005738   -1.445375 -146.996789
0.57753   -9.741457 -136.158276     -1.304327
-0.005738   -0.899605   -99.214612
0.71836   -9.741457 -136.158276     -1.304327
-0.005738   -0.354449   -70.831771
0.85918   -9.741457 -136.158276     -1.304327
-0.005738   -0.278931   -50.072570
1.00000   -9.741457 -136.158276     -1.304327
-0.005738   -1.050529   -53.117430

COMB    DESIGN ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.43671   13.079635    83.693278     1.846608
 0.007550    2.043441   170.662590
0.57753   13.079635    83.693278     1.846608
 0.007550    1.274392   136.994126
0.71836   13.079635    83.693278     1.846608
 0.007550    0.507532   110.711534
0.85918   13.079635    83.693278     1.846608
 0.007550    0.201111   109.624203
1.00000   13.079635    83.693278     1.846608
 0.007550    0.747917   114.379062

COMB    DESIGN ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.43671   -9.741457 -136.158276     -1.304327
-0.005738   -1.445375 -146.996789
0.57753   -9.741457 -136.158276     -1.304327
-0.005738   -0.899605   -99.214612
0.71836   -9.741457 -136.158276     -1.304327
-0.005738   -0.354449   -70.831771
0.85918   -9.741457 -136.158276     -1.304327
-0.005738   -0.278931   -50.072570
1.00000   -9.741457 -136.158276     -1.304327
-0.005738   -1.050529   -53.117430
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3034

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       283 ================== LENGTH
=     2.977796

COMB DB-G1-1 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    2.707554     5.134262     0.449929
6.89E-06     0.252108    10.953002
0.14086    2.707554     5.134262     0.449929
6.89E-06     0.063352    17.400434
0.28172    2.707554     5.134262     0.449929
6.89E-06     0.139030    24.068211
0.42258    2.707554     5.134262     0.449929
6.89E-06     0.304111    30.736274
0.56344    2.707554     5.134262     0.449929
6.89E-06     0.556985    37.555068

COMB DB-G1-1 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -1.599278   -16.170683     -0.500595
-0.000725    -0.280937    -28.666369
0.14086   -1.599278   -16.170683     -0.500595
-0.000725    -0.070900    -30.626068
0.28172   -1.599278   -16.170683     -0.500595
-0.000725    -0.140250    -32.662150
0.42258   -1.599278   -16.170683     -0.500595
-0.000725    -0.314073    -34.622681
0.56344   -1.599278   -16.170683     -0.500595
-0.000725    -0.502786    -36.681254

COMB DB-G1-2 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    3.357393    19.395189     0.750239
 0.000186    0.420770    17.643003
0.14086    3.357393    19.395189     0.750239
 0.000186    0.106089    27.177658
0.28172    3.357393    19.395189     0.750239
 0.000186    0.225273    37.650236
0.42258    3.357393    19.395189     0.750239
 0.000186    0.566310    49.153119
0.56344    3.357393    19.395189     0.750239
 0.000186    0.907338    61.157260

COMB DB-G1-2 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -5.684096   -29.233700     -0.813038
-0.001515    -0.457478    -49.751606
0.14086   -5.684096   -29.233700     -0.813038
-0.001515    -0.116362    -54.633693
0.28172   -5.684096   -29.233700     -0.813038
-0.001515    -0.210555    -59.997773
0.42258   -5.684096   -29.233700     -0.813038
-0.001515    -0.523574    -65.960765
0.56344   -5.684096   -29.233700     -0.813038
-0.001515    -0.838015    -73.026045

COMB DB-G1-3 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    3.363364    63.216156     0.961410
 6.20E-06     0.535882    48.007294
0.14086    3.363364    63.216156     0.961410
 6.20E-06     0.132739    47.129335
0.28172    3.363364    63.216156     0.961410
 6.20E-06     0.239695    54.658596
0.42258    3.363364    63.216156     0.961410
 6.20E-06     0.603538    64.120887
0.56344    3.363364    63.216156     0.961410
 6.20E-06     0.967279    74.203373

COMB DB-G1-3 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -8.587122   -34.903826     -0.867211
-0.001696    -0.487736    -41.640848
0.14086   -8.587122   -34.903826     -0.867211
-0.001696    -0.123845    -42.615049
0.28172   -8.587122   -34.903826     -0.867211
-0.001696    -0.271737    -60.118336
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3035

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
          T           M2           M3
0.42258   -8.587122   -34.903826     -0.867211
-0.001696    -0.674011    -84.937642
0.56344   -8.587122   -34.903826     -0.867211
-0.001696    -1.077180   -110.608714

COMB DB-G1-4 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    6.945165     97.796080     1.053519
 0.003839    0.603174    110.417642
0.14086    6.945165     97.796080     1.053519
 0.003839    0.162059    108.768091
0.28172    6.945165     97.796080     1.053519
 0.003839    0.248387    113.877152
0.42258    6.945165     97.796080     1.053519
 0.003839    0.624858    130.671168
0.56344    6.945165     97.796080     1.053519
 0.003839    1.001232    155.004148

COMB DB-G1-4 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -9.650370   -69.030995     -0.897334
-0.004900    -0.517727    -38.229504
0.14086   -9.650370   -69.030995     -0.897334
-0.004900    -0.142360    -42.324287
0.28172   -9.650370   -69.030995     -0.897334
-0.004900    -0.293272    -60.481392
0.42258   -9.650370   -69.030995     -0.897334
-0.004900    -0.726953    -84.319538
0.56344   -9.650370   -69.030995     -0.897334
-0.004900    -1.164502   -119.059086

COMB DB-G2-1 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    0.587633     24.766375     0.336422
 9.37E-06     0.186735     10.691552
0.14086    0.587633     24.766375     0.336422
 9.37E-06     0.045719     11.671086
0.28172    0.587633     24.766375     0.336422
 9.37E-06     0.082605     14.335739
0.42258    0.587633     24.766375     0.336422
 9.37E-06     0.208394     17.756754
0.56344    0.587633     24.766375     0.336422
 9.37E-06     0.334170     23.577604

COMB DB-G2-1 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -5.011679   -14.482517     -0.299883
-0.000685    -0.168966    -14.624325
0.14086   -5.011679   -14.482517     -0.299883
-0.000685    -0.043123    -19.002393
0.28172   -5.011679   -14.482517     -0.299883
-0.000685    -0.096775    -27.117715
0.42258   -5.011679   -14.482517     -0.299883
-0.000685    -0.167700    -36.428507
0.56344   -5.011679   -14.482517     -0.299883
-0.000685    -0.377804    -46.310051

COMB DB-G2-2 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    2.021645     115.302554     0.662510
 0.004822    0.387714    113.205722
0.14086    2.021645     115.302554     0.662510
 0.004822    0.110921     83.115155
0.28172    2.021645     115.302554     0.662510
 0.004822    0.112786     61.890062
0.42258    2.021645     115.302554     0.662510
 0.004822    0.284835     56.577808
0.56344    2.021645     115.302554     0.662510
 0.004822    0.456761     61.562554

COMB DB-G2-2 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -9.809627   -26.444745     -0.409919
-0.005790    -0.249355    -12.734287
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3036

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
          T           M2           M3
0.14086   -9.809627   -26.444745     -0.409919
-0.005790    -0.078924    -11.982479
0.28172   -9.809627   -26.444745     -0.409919
-0.005790    -0.165279    -29.803429
0.42258   -9.809627   -26.444745     -0.409919
-0.005790    -0.451942    -54.973973
0.56344   -9.809627   -26.444745     -0.409919
-0.005790    -0.723882    -94.985518

COMB DB-G2-3 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    3.221812     108.850702     0.941253
 0.004358    0.542395    108.534857
0.14086    3.221812     108.850702     0.941253
 0.004358    0.148538     86.879901
0.28172    3.221812     108.850702     0.941253
 0.004358    0.207286     72.107521
0.42258    3.221812     108.850702     0.941253
 0.004358    0.522182     73.670223
0.56344    3.221812     108.850702     0.941253
 0.004358    0.836957     83.519511

COMB DB-G2-3 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -10.960453   -36.720947     -0.750494
-0.005809    -0.438806    -34.231041
0.14086   -10.960453   -36.720947     -0.750494
-0.005809    -0.125395    -35.134118
0.28172   -10.960453   -36.720947     -0.750494
-0.005809    -0.262582    -53.371844
0.42258   -10.960453   -36.720947     -0.750494
-0.005809    -0.647438    -77.883226
0.56344   -10.960453   -36.720947     -0.750494
-0.005809    -1.036871   -115.861329

COMB DB-G2-4 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    7.535639     97.493966     1.024958
 0.003541    0.585231     94.094578
0.14086    7.535639     97.493966     1.024958
 0.003541    0.155931     99.457657
0.28172    7.535639     97.493966     1.024958
 0.003541    0.246205    111.596087
0.42258    7.535639     97.493966     1.024958
 0.003541    0.619560    133.526236
0.56344    7.535639     97.493966     1.024958
 0.003541    0.992811    161.732347

COMB DB-G2-4 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -10.030278   -77.977743     -0.889895
-0.004080    -0.511138    -34.463596
0.14086   -10.030278   -77.977743     -0.889895
-0.004080    -0.138695    -40.828469
0.28172   -10.030278   -77.977743     -0.889895
-0.004080    -0.284696    -61.694373
0.42258   -10.030278   -77.977743     -0.889895
-0.004080    -0.708205    -88.261183
0.56344   -10.030278   -77.977743     -0.889895
-0.004080    -1.134548   -123.867367

COMB DB-G3-1 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    6.436365     28.398379     0.438221
 0.001291    0.246119     2.949489
0.14086    6.436365     28.398379     0.438221
 0.001291    0.062260     9.156070
0.28172    6.436365     28.398379     0.438221
 0.001291    0.129151     29.560228
0.42258    6.436365     28.398379     0.438221
 0.001291    0.324368     50.188264
0.56344    6.436365     28.398379     0.438221
 0.001291    0.519564     70.947244
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3037

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -2.710825   -49.740022     -0.465365
-2.04E-05    -0.261249    -13.794503
0.14086   -2.710825   -49.740022     -0.465365
-2.04E-05    -0.065955    -22.776851
0.28172   -2.710825   -49.740022     -0.465365
-2.04E-05    -0.121532    -33.795796
0.42258   -2.710825   -49.740022     -0.465365
-2.04E-05    -0.305328    -45.379094
0.56344   -2.710825   -49.740022     -0.465365
-2.04E-05    -0.489131    -57.182800

COMB DB-G3-2 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    9.622740     111.414078     0.722930
 0.007268    0.429227    108.083344
0.14086    9.622740     111.414078     0.722930
 0.007268    0.127102     96.623593
0.28172    9.622740     111.414078     0.722930
 0.007268    0.164931     95.267675
0.42258    9.622740     111.414078     0.722930
 0.007268    0.414119     112.114021
0.56344    9.622740     111.414078     0.722930
 0.007268    0.663268     141.060434

COMB DB-G3-2 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -6.901140   -74.478070     -0.593994
-0.005983    -0.355723    -14.149369
0.14086   -6.901140   -74.478070     -0.593994
-0.005983    -0.108378    -26.738119
0.28172   -6.901140   -74.478070     -0.593994
-0.005983    -0.196786    -39.802989
0.42258   -6.901140   -74.478070     -0.593994
-0.005983    -0.487661    -58.633349
0.56344   -6.901140   -74.478070     -0.593994
-0.005983    -0.783757    -95.747579

COMB DB-G3-3 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    8.510378     123.161454     0.930379
 0.005259    0.535211    97.288546
0.14086    8.510378     123.161454     0.930379
 0.005259    0.114570    90.623959
0.28172    8.510378     123.161454     0.930379
 0.005259    0.202994    95.800097
0.42258    8.510378     123.161454     0.930379
 0.005259    0.510687    114.326915
0.56344    8.510378     123.161454     0.930379
 0.005259    0.818365    141.491861

COMB DB-G3-3 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -9.857206   -77.986062     -0.733571
-0.004706    -0.445439    -15.339429
0.14086   -9.857206   -77.986062     -0.733571
-0.004706    -0.121262    -24.099926
0.28172   -9.857206   -77.986062     -0.733571
-0.004706    -0.258948    -50.714198
0.42258   -9.857206   -77.986062     -0.733571
-0.004706    -0.640552    -83.322411
0.56344   -9.857206   -77.986062     -0.733571
-0.004706    -1.025825   -128.136708

COMB DB-G3-4 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    7.909311     108.876794     1.044176
 0.004358    0.596835    84.884148
0.14086    7.909311     108.876794     1.044176
 0.004358    0.159582    83.684139
0.28172    7.909311     108.876794     1.044176
 0.004358    0.251265    92.592351
0.42258    7.909311     108.876794     1.044176
 0.004358    0.632392    112.661523
0.56344    7.909311     108.876794     1.044176
 0.004358    1.013419    139.903679
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3038

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -10.869752   -75.901651     -0.908418
-0.004408    -0.523402    -32.653568
0.14086   -10.869752   -75.901651     -0.908418
-0.004408    -0.143318    -41.831436
0.28172   -10.869752   -75.901651     -0.908418
-0.004408    -0.291027    -65.411357
0.42258   -10.869752   -75.901651     -0.908418
-0.004408    -0.721247    -94.636507
0.56344   -10.869752   -75.901651     -0.908418
-0.004408    -1.155109   -134.232859

COMB DL-G1-1 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    4.220383     6.606953     0.824269
4.01E-06     0.459456    14.528006
0.14086    4.220383     6.606953     0.824269
4.01E-06     0.113870    22.882300
0.28172    4.220383     6.606953     0.824269
4.01E-06     0.203080    31.343434
0.42258    4.220383     6.606953     0.824269
4.01E-06     0.512352    39.860505
0.56344    4.220383     6.606953     0.824269
4.01E-06     0.820949    48.371024

COMB DL-G1-1 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -1.439664   -20.725176     -0.735294
-0.000731    -0.412735    -32.205000
0.14086   -1.439664   -20.725176     -0.735294
-0.000731    -0.103632    -34.599356
0.28172   -1.439664   -20.725176     -0.735294
-0.000731    -0.230978    -37.042493
0.42258   -1.439664   -20.725176     -0.735294
-0.000731    -0.576577    -39.513466
0.56344   -1.439664   -20.725176     -0.735294
-0.000731    -0.922071    -42.059653

COMB DL-G1-2 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    4.952839     19.930019     1.436817
 0.000112    0.799348    20.891081
0.14086    4.952839     19.930019     1.436817
 0.000112    0.197321    34.141132
0.28172    4.952839     19.930019     1.436817
 0.000112    0.324345    48.260815
0.42258    4.952839     19.930019     1.436817
 0.000112    0.821188    63.146638
0.56344    4.952839     19.930019     1.436817
 0.000112    1.316889    78.358766

COMB DL-G1-2 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -5.286874   -37.266689     -1.181777
-0.001457    -0.665655    -53.135767
0.14086   -5.286874   -37.266689     -1.181777
-0.001457    -0.168909    -57.795106
0.28172   -5.286874   -37.266689     -1.181777
-0.001457    -0.405132    -63.426173
0.42258   -5.286874   -37.266689     -1.181777
-0.001457    -1.006619    -70.257265
0.56344   -5.286874   -37.266689     -1.181777
-0.001457    -1.608745    -77.954847

COMB DL-G1-3 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    4.944708     57.325019     1.721185
 7.90E-06     0.356769    58.955908
0.14086    4.944708     57.325019     1.721185
 7.90E-06     0.235910    60.934809
0.28172    4.944708     57.325019     1.721185
 7.90E-06     0.352622    71.007896
0.42258    4.944708     57.325019     1.721185
 7.90E-06     0.894721    85.554425
0.56344    4.944708     57.325019     1.721185
 7.90E-06     1.436376   101.117623
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3039

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -7.647431   -43.691134     -1.289668
-0.001631    -0.725956    -44.849415
0.14086   -7.647431   -43.691134     -1.289668
-0.001631    -0.184385    -46.984456
0.28172   -7.647431   -43.691134     -1.289668
-0.001631    -0.486525    -61.165692
0.42258   -7.647431   -43.691134     -1.289668
-0.001631    -1.206792    -83.056178
0.56344   -7.647431   -43.691134     -1.289668
-0.001631    -1.928010   -105.937712

COMB DL-G1-4 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    7.759143     86.920027     1.807637
 0.003010    1.020144    113.796550
0.14086    7.759143     86.920027     1.807637
 0.003010    0.263143    117.267186
0.28172    7.759143     86.920027     1.807637
 0.003010    0.358365    127.624740
0.42258    7.759143     86.920027     1.807637
 0.003010    0.905903    148.742349
0.56344    7.759143     86.920027     1.807637
 0.003010    1.453473    176.214733

COMB DL-G1-4 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -9.041412   -73.814750     -1.307742
-0.004055    -0.747781    -41.164931
0.14086   -9.041412   -73.814750     -1.307742
-0.004055    -0.199325    -46.878654
0.28172   -9.041412   -73.814750     -1.307742
-0.004055    -0.506029    -62.914977
0.42258   -9.041412   -73.814750     -1.307742
-0.004055    -1.257126    -85.195263
0.56344   -9.041412   -73.814750     -1.307742
-0.004055    -2.010198   -119.449187

COMB DL-G2-1 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    0.558853     21.330646     0.645829
 5.39E-06     0.357388    10.869686
0.14086    0.558853     21.330646     0.645829
 5.39E-06     0.087419    13.730489
0.28172    0.558853     21.330646     0.645829
 5.39E-06     0.117431    18.813573
0.42258    0.558853     21.330646     0.645829
 5.39E-06     0.300049    24.168947
0.56344    0.558853     21.330646     0.645829
 5.39E-06     0.481974    31.867660

COMB DL-G2-1 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -4.579878   -17.574115     -0.434238
-0.000655    -0.245366    -13.759832
0.14086   -4.579878   -17.574115     -0.434238
-0.000655    -0.063239    -17.425802
0.28172   -4.579878   -17.574115     -0.434238
-0.000655    -0.184254    -24.115013
0.42258   -4.579878   -17.574115     -0.434238
-0.000655    -0.454123    -32.048236
0.56344   -4.579878   -17.574115     -0.434238
-0.000655    -0.724888    -40.365046

COMB DL-G2-2 ------------------ MAX

REL DIST            P            V2           V3
          T           M2           M3
0.00000    1.992071     99.296084     1.065916
 0.004107    0.611085    113.606013
0.14086    1.992071     99.296084     1.065916
 0.004107    0.165754    88.320437
0.28172    1.992071     99.296084     1.065916
 0.004107    0.169653    72.417966
0.42258    1.992071     99.296084     1.065916
 0.004107    0.431894    71.514192
0.56344    1.992071     99.296084     1.065916
 0.004107    0.695229    80.059863
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3040

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------ MIN

REL DIST            P            V2           V3
          T           M2           M3
0.00000   -8.845975   -30.649323     -0.631307
```

```
-0.005025   -0.375136   -11.664695
0.14086     -8.845975   -30.649323      -0.631307
-0.005025   -0.111428   -11.252920
0.28172     -8.845975   -30.649323      -0.631307
-0.005025   -0.298942   -25.741698
0.42258     -8.845975   -30.649323      -0.631307
-0.005025   -0.735663   -46.938771
0.56344     -8.845975   -30.649323      -0.631307
-0.005025   -1.175844   -86.125874

COMB DL-G2-3 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     4.004889    95.117341      1.615659
0.003717    0.915169    110.972239
0.14086     4.004889    95.117341      1.615659
0.003717    0.239271    94.912620
0.28172     4.004889    95.117341      1.615659
0.003717    0.304255    87.415204
0.42258     4.004889    95.117341      1.615659
0.003717    0.772527    93.325658
0.56344     4.004889    95.117341      1.615659
0.003717    1.240949    107.779765

COMB DL-G2-3 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -9.907524   -44.162859      -1.120028
-0.005125   -0.648221   -35.068118
0.14086    -9.907524   -44.162859      -1.120028
-0.005125   -0.716179   -36.716783
0.28172    -9.907524   -44.162859      -1.120028
-0.005125   -0.453466   -52.267326
0.42258    -9.907524   -44.162859      -1.120028
-0.005125   -1.121755   -73.458692
0.56344    -9.907524   -44.162859      -1.120028
-0.005125   -1.793215   -110.947248

COMB DL-G2-4 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     7.505226    89.562842      1.796736
0.002902    1.013294    96.851844
0.14086     7.505226    89.562842      1.796736
0.002902    0.260618    104.812949
0.28172     7.505226    89.562842      1.796736
0.002902    0.345085    120.284800
0.42258     7.505226    89.562842      1.796736
0.002902    0.872682    145.033738
0.56344     7.505226    89.562842      1.796736
0.002902    1.400746    175.240679

COMB DL-G2-4 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -9.869531   -79.625111      -1.260038
-0.003420   -0.719044   -36.171557
0.14086    -9.869531   -79.625111      -1.260038
-0.003420   -0.190858   -44.570616
0.28172    -9.869531   -79.625111      -1.260038
-0.003420   -0.502019   -64.925656
0.42258    -9.869531   -79.625111      -1.260038
-0.003420   -1.249724   -90.551031
0.56344    -9.869531   -79.625111      -1.260038
-0.003420   -1.999346   -126.299535

COMB DL-G3-1 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     5.445601    36.944428      0.787637
0.001285    0.445051    3.471951
0.14086     5.445601    36.944428      0.787637
0.001285    0.114051    9.585333
0.28172     5.445601    36.944428      0.787637
0.001285    0.159105    26.780759
0.42258     5.445601    36.944428      0.787637
0.001285    0.398882    44.664264
0.56344     5.445601    36.944428      0.787637
0.001285    0.638749    62.743146
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3041

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -4.180290   -43.614549      -0.571944
-1.53E-05   -0.321038   -26.745253
0.14086    -4.180290   -43.614549      -0.571944
-1.53E-05   -0.081285   -34.545757
0.28172    -4.180290   -43.614549      -0.571944
-1.53E-05   -0.216016   -48.680059
0.42258    -4.180290   -43.614549      -0.571944
-1.53E-05   -0.546226   -63.741166
0.56344    -4.180290   -43.614549      -0.571944
-1.53E-05   -0.876778   -79.030761

COMB DL-G3-2 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     8.247468    117.164505     1.173483
0.007189    0.687670    114.428967
0.14086     8.247468    117.164505     1.173483
0.007189    0.196434    101.738402
0.28172     8.247468    117.164505     1.173483
0.007189    0.212290    96.793415
0.42258     8.247468    117.164505     1.173483
0.007189    0.530630    109.187525
0.56344     8.247468    117.164505     1.173483
0.007189    0.849826    134.180412

COMB DL-G3-2 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -8.656864   -66.752021      -0.768852
-0.005956   -0.458161   -23.374741
0.14086    -8.656864   -66.752021      -0.768852
-0.005956   -0.137322   -36.921151
0.28172    -8.656864   -66.752021      -0.768852
-0.005956   -0.315547   -53.945899
0.42258    -8.656864   -66.752021      -0.768852
-0.005956   -0.798458   -75.664125
0.56344    -8.656864   -66.752021      -0.768852
-0.005956   -1.280971   -122.058497

COMB DL-G3-3 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     7.371418    123.064069     1.548413
0.005404    0.886764    107.747687
0.14086     7.371418    123.064069     1.548413
0.005404    0.238492    97.658472
0.28172     7.371418    123.064069     1.548413
0.005404    0.272156    100.523340
0.42258     7.371418    123.064069     1.548413
0.005404    0.685907    117.489723
0.56344     7.371418    123.064069     1.548413
0.005404    1.101515    143.895090

COMB DL-G3-3 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000   -10.831691   -72.485510      -0.993935
-0.004821   -0.577955   -22.363063
0.14086   -10.831691   -72.485510      -0.993935
-0.004821   -0.162751   -33.048103
0.28172   -10.831691   -72.485510      -0.993935
-0.004821   -0.428282   -60.093901
0.42258   -10.831691   -72.485510      -0.993935
-0.004821   -1.067900   -91.249120
0.56344   -10.831691   -72.485510      -0.993935
-0.004821   -1.710287   -140.508809

COMB DL-G3-4 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     7.339717    109.175876     1.830417
0.004489    1.038634    94.613088
0.14086     7.339717    109.175876     1.830417
0.004489    0.272129    91.780632
0.28172     7.339717    109.175876     1.830417
0.004489    0.342990    99.780852
0.42258     7.339717    109.175876     1.830417
0.004489    0.866816    119.644116
0.56344     7.339717    109.175876     1.830417
0.004489    1.391498    147.414330
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3042

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -11.572164   -74.394202      -1.253708
-0.004523   -0.721534   -38.971006
0.14086    -11.572164   -74.394202      -1.253708
-0.004523   -0.196683   -49.659931
0.28172    -11.572164   -74.394202      -1.253708
-0.004523   -0.509596   -74.011480
0.42258    -11.572164   -74.394202      -1.253708
-0.004523   -1.268957   -102.449491
0.56344    -11.572164   -74.394202      -1.253708
-0.004523   -2.030723   -146.139164

COMB     DB ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     9.622740    123.161454     1.053519
0.007268    0.603174    113.205722
0.14086     9.622740    123.161454     1.053519
0.007268    0.162059    108.768091
0.28172     9.622740    123.161454     1.053519
0.007268    0.251265    113.877152
0.42258     9.622740    123.161454     1.053519
0.007268    0.632392    133.526236
0.56344     9.622740    123.161454     1.053519
0.007268    1.013419    161.732347

COMB     DB ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -10.960453   -77.986062      -0.908418
-0.005983   -0.523402   -49.751606
0.14086    -10.960453   -77.986062      -0.908418
-0.005983   -0.143318   -54.633693
0.28172    -10.960453   -77.986062      -0.908418
-0.005983   -0.293272   -65.411357
0.42258    -10.960453   -77.986062      -0.908418
-0.005983   -0.726953   -94.636507
0.56344    -10.960453   -77.986062      -0.908418
-0.005983   -1.164502   -134.232859

COMB     DL ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     8.247468    123.064069     1.830417
0.007189    1.038634    114.428967
0.14086     8.247468    123.064069     1.830417
0.007189    0.272129    117.267186
0.28172     8.247468    123.064069     1.830417
0.007189    0.358365    127.624740
0.42258     8.247468    123.064069     1.830417
0.007189    0.905903    148.742349
0.56344     8.247468    123.064069     1.830417
0.007189    1.453473    176.214733

COMB     DL ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -11.572164   -79.625111      -1.307742
-0.005956   -0.747781   -53.135767
0.14086    -11.572164   -79.625111      -1.307742
-0.005956   -0.199325   -57.795106
0.28172    -11.572164   -79.625111      -1.307742
-0.005956   -0.509596   -74.011480
0.42258    -11.572164   -79.625111      -1.307742
-0.005956   -1.268957   -102.449491
0.56344    -11.572164   -79.625111      -1.307742
-0.005956   -2.030723   -146.139164

COMB     CAR ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     9.622740    123.161454     1.830417
0.007268    1.038634    114.428967
0.14086     9.622740    123.161454     1.830417
0.007268    0.272129    117.267186
0.28172     9.622740    123.161454     1.830417
0.007268    0.358365    127.624740
0.42258     9.622740    123.161454     1.830417
0.007268    0.905903    148.742349
0.56344     9.622740    123.161454     1.830417
0.007268    1.453473    176.214733
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3043

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -11.572164   -79.625111      -1.307742
-0.005983   -0.747781   -53.135767
0.14086    -11.572164   -79.625111      -1.307742
-0.005983   -0.199325   -57.795106
0.28172    -11.572164   -79.625111      -1.307742
-0.005983   -0.509596   -74.011480
0.42258    -11.572164   -79.625111      -1.307742
-0.005983   -1.268957   -102.449491
0.56344    -11.572164   -79.625111      -1.307742
-0.005983   -2.030723   -146.139164

COMB  DESIGN ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.00000     9.622740    123.161454     1.830417
0.007268    1.038634    114.428967
0.14086     9.622740    123.161454     1.830417
0.007268    0.272129    117.267186
0.28172     9.622740    123.161454     1.830417
0.007268    0.358365    127.624740
0.42258     9.622740    123.161454     1.830417
0.007268    0.905903    148.742349
0.56344     9.622740    123.161454     1.830417
0.007268    1.453473    176.214733

COMB  DESIGN ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.00000    -11.572164   -79.625111      -1.307742
-0.005983   -0.747781   -53.135767
0.14086    -11.572164   -79.625111      -1.307742
-0.005983   -0.199325   -57.795106
0.28172    -11.572164   -79.625111      -1.307742
-0.005983   -0.509596   -74.011480
0.42258    -11.572164   -79.625111      -1.307742
-0.005983   -1.268957   -102.449491
0.56344    -11.572164   -79.625111      -1.307742
-0.005983   -2.030723   -146.139164

ELEM      284 ================== LENGTH
=     2.977458

COMB DB-G1-1 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     2.870607    3.169524       0.485090
0.000408    0.540696    4.279434
0.57746     2.870607    3.169524       0.485090
0.000408    0.337269    2.591777
0.71831     2.870607    3.169524       0.485090
0.000408    0.133843    2.927981
0.85915     2.870607    3.169524       0.485090
0.000408    0.083153    4.169297
1.00000     2.870607    3.169524       0.485090
0.000408    0.327944    8.828766

COMB DB-G1-1 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -0.866635   -21.770724      -0.583598
-0.001040   -0.651029   -28.188350
0.57746    -0.866635   -21.770724      -0.583598
-0.001040   -0.406306   -19.110201
0.71831    -0.866635   -21.770724      -0.583598
-0.001040   -0.161591   -14.329827
0.85915    -0.866635   -21.770724      -0.583598
-0.001040   -0.069580   -13.685129
1.00000    -0.866635   -21.770724      -0.583598
-0.001040   -0.273046   -13.196190

COMB DB-G1-2 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     6.086689    5.461685       0.827478
0.000634    0.921110    7.251628
0.57746     6.086689    5.461685       0.827478
0.000634    0.574170    5.038441
0.71831     6.086689    5.461685       0.827478
0.000634    0.227309    3.040094
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3044

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST        P           V2          V3
      T         M2          M3
0.85915     6.086689    5.461685       0.827478
0.000634    0.133795    4.445901
1.00000     6.086689    5.461685       0.827478
0.000634    0.527946    14.784331

COMB DB-G1-2 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -0.906942   -45.236948      -0.939721
-0.001991   -1.048454   -69.346438
0.57746    -0.906942   -45.236948      -0.939721
-0.001991   -0.654643   -52.187645
0.71831    -0.906942   -45.236948      -0.939721
-0.001991   -0.260831   -41.180932
0.85915    -0.906942   -45.236948      -0.939721
-0.001991   -0.120757   -36.611954
1.00000    -0.906942   -45.236948      -0.939721
-0.001991   -0.467660   -32.685886

COMB DB-G1-3 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     6.773440    30.870820      1.051094
0.000427    1.171721    67.512179
0.57746     6.773440    30.870820      1.051094
0.000427    0.730943    54.859199
0.71831     6.773440    30.870820      1.051094
0.000427    0.290273    42.213824
0.85915     6.773440    30.870820      1.051094
0.000427    0.142571    32.034468
1.00000     6.773440    30.870820      1.051094
0.000427    0.568418    32.272055

COMB DB-G1-3 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -2.969799   -57.061027      -1.015100
-0.001704   -1.134454   -87.520478
0.57746    -2.969799   -57.061027      -1.015100
-0.001704   -0.708684   -64.457935
0.71831    -2.969799   -57.061027      -1.015100
-0.001704   -0.282906   -46.445531
0.85915    -2.969799   -57.061027      -1.015100
-0.001704   -0.150861   -33.844367
1.00000    -2.969799   -57.061027      -1.015100
-0.001704   -0.591593   -23.209664

COMB DB-G1-4 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     9.848439    38.025844      1.099382
0.004109    1.224925    79.222349
0.57746     9.848439    38.025844      1.099382
0.004109    0.765003    64.369557
0.71831     9.848439    38.025844      1.099382
0.004109    0.305175    53.565552
0.85915     9.848439    38.025844      1.099382
0.004109    0.162057    61.568149
1.00000     9.848439    38.025844      1.099382
0.004109    0.597279    89.183035

COMB DB-G1-4 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -4.244861   -119.839097     -1.038349
-0.004900   -1.145807   -132.337188
0.57746    -4.244861   -119.839097     -1.038349
-0.004900   -0.715340   -82.985536
0.71831    -4.244861   -119.839097     -1.038349
-0.004900   -0.285079   -47.652125
0.85915    -4.244861   -119.839097     -1.038349
-0.004900   -0.169933   -28.326439
1.00000    -4.244861   -119.839097     -1.038349
-0.004900   -0.630612   -22.155719

COMB DB-G2-1 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     3.393595    6.314831       0.386785
1.19E-05    0.429959    10.757231
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3045

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST        P           V2          V3
      T         M2          M3
0.57746     3.393595    6.314831       0.386785
1.19E-05    0.267771    8.831678
0.71831     3.393595    6.314831       0.386785
1.19E-05    0.105676    7.128636
0.85915     3.393595    6.314831       0.386785
1.19E-05    0.047660    5.538116
1.00000     3.393595    6.314831       0.386785
1.19E-05    0.190851    7.527046

COMB DB-G2-1 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -0.756805   -25.604834      -0.341446
-0.000749   -0.381912   -47.459685
0.57746    -0.756805   -25.604834      -0.341446
-0.000749   -0.238729   -37.905993
0.71831    -0.756805   -25.604834      -0.341446
-0.000749   -0.095547   -29.102752
0.85915    -0.756805   -25.604834      -0.341446
-0.000749   -0.057006   -21.499104
1.00000    -0.756805   -25.604834      -0.341446
-0.000749   -0.219090   -17.725503

COMB DB-G2-2 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     7.426271    33.074790      0.701766
0.004451    0.779142    78.856706
0.57746     7.426271    33.074790      0.701766
0.004451    0.486356    66.274708
0.71831     7.426271    33.074790      0.701766
0.004451    0.193684    58.643142
0.85915     7.426271    33.074790      0.701766
0.004451    0.092414    72.360994
1.00000     7.426271    33.074790      0.701766
0.004451    0.306588    91.184084

COMB DB-G2-2 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -2.964661   -97.834580      -0.511666
-0.005209   -0.553187   -100.254913
0.57746    -2.964661   -97.834580      -0.511666
-0.005209   -0.345729   -60.407046
0.71831    -2.964661   -97.834580      -0.511666
-0.005209   -0.138215   -34.518248
0.85915    -2.964661   -97.834580      -0.511666
-0.005209   -0.119684   -21.026271
1.00000    -2.964661   -97.834580      -0.511666
-0.005209   -0.413494   -9.984058

COMB DB-G2-3 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     9.213856    31.905458      1.001143
0.004316    1.113404    73.577077
0.57746     9.213856    31.905458      1.001143
0.004316    0.694923    61.353595
0.71831     9.213856    31.905458      1.001143
0.004316    0.276523    53.609869
0.85915     9.213856    31.905458      1.001143
0.004316    0.145627    65.259925
1.00000     9.213856    31.905458      1.001143
0.004316    0.523088    87.673329

COMB DB-G2-3 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -2.824108   -106.586806     -0.900929
-0.005504   -0.989530   -115.231739
0.57746    -2.824108   -106.586806     -0.900929
-0.005504   -0.618169   -71.428573
0.71831    -2.824108   -106.586806     -0.900929
-0.005504   -0.246664   -44.128035
0.85915    -2.824108   -106.586806     -0.900929
-0.005504   -0.160464   -31.355884
1.00000    -2.824108   -106.586806     -0.900929
-0.005504   -0.579942   -20.793456
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3046

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     9.457630    48.521764      1.052498
0.003725    1.174532    93.358722
0.57746     9.457630    48.521764      1.052498
0.003725    0.734047    73.976603
0.71831     9.457630    48.521764      1.052498
0.003725    0.293682    57.872604
0.85915     9.457630    48.521764      1.052498
0.003725    0.153199    56.099219
1.00000     9.457630    48.521764      1.052498
0.003725    0.571730    75.606632

COMB DB-G2-4 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -5.143017   -111.838637     -0.998327
-0.004080   -1.103860   -132.996629
0.57746    -5.143017   -111.838637     -0.998327
-0.004080   -0.689399   -86.753696
0.71831    -5.143017   -111.838637     -0.998327
-0.004080   -0.274873   -52.244784
0.85915    -5.143017   -111.838637     -0.998327
-0.004080   -0.160597   -28.103886
1.00000    -5.143017   -111.838637     -0.998327
-0.004080   -0.600333   -23.008667

COMB DB-G3-1 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     2.321203    45.116062      0.404268
0.001289    0.451235    64.664702
0.57746     2.321203    45.116062      0.404268
0.001289    0.281701    45.822847
0.71831     2.321203    45.116062      0.404268
0.001289    0.112168    27.071765
0.85915     2.321203    45.116062      0.404268
0.001289    0.064112    8.320607
1.00000     2.321203    45.116062      0.404268
0.001289    0.252762    2.415948

COMB DB-G3-1 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -5.127447   -17.087236      -0.449715
-0.000314   -0.501617   -39.370144
0.57746    -5.127447   -17.087236      -0.449715
-0.000314   -0.313033   -32.279743
0.71831    -5.127447   -17.087236      -0.449715
-0.000314   -0.124449   -25.289383
0.85915    -5.127447   -17.087236      -0.449715
-0.000314   -0.057385   -18.436795
1.00000    -5.127447   -17.087236      -0.449715
-0.000314   -0.226929   -13.071229

COMB DB-G3-2 ---------- MAX

REL DIST        P           V2          V3
      T         M2          M3
0.43661     7.360576    63.526483      0.663574
0.006899    0.736984    113.212777
0.57746     7.360576    63.526483      0.663574
0.006899    0.460528    87.992159
0.71831     7.360576    63.526483      0.663574
0.006899    0.184069    68.953383
0.85915     7.360576    63.526483      0.663574
0.006899    0.116782    75.712741
1.00000     7.360576    63.526483      0.663574
0.006899    0.383103    93.762852

COMB DB-G3-2 ---------- MIN

REL DIST        P           V2          V3
      T         M2          M3
0.43661    -6.964878   -108.004664     -0.636295
-0.005939   -0.685953   -103.903106
0.57746    -6.964878   -108.004664     -0.636295
-0.005939   -0.427831   -59.035895
0.71831    -6.964878   -108.004664     -0.636295
-0.005939   -0.169686   -30.502124
0.85915    -6.964878   -108.004664     -0.636295
-0.005939   -0.116858   -16.845198
1.00000    -6.964878   -108.004664     -0.636295
-0.005939   -0.394748   -14.231735
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.196841	71.434547	0.916067
0.005042	1.019608	129.334196	
0.57746	8.196841	71.434547	0.916067
0.005042	0.636694	100.603851	
0.71831	8.196841	71.434547	0.916067
0.005042	0.253827	76.138950	
0.85915	8.196841	71.434547	0.916067
0.005042	0.129149	70.561676	
1.00000	8.196841	71.434547	0.916067
0.005042	0.460535	77.953861	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-7.632200	-104.408346	-0.790823
-0.004463	-0.867271	-122.218014	
0.57746	-7.632200	-104.408346	-0.790823
-0.004463	-0.541598	-76.782698	
0.71831	-7.632200	-104.408346	-0.790823
-0.004463	-0.215750	-46.647216	
0.85915	-7.632200	-104.408346	-0.790823
-0.004463	-0.146116	-24.845338	
1.00000	-7.632200	-104.408346	-0.790823
-0.004463	-0.529957	-13.965962	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.222260	61.256783	1.059681
0.004329	1.179623	110.454249	
0.57746	9.222260	61.256783	1.059681
0.004329	0.736277	85.793105	
0.71831	9.222260	61.256783	1.059681
0.004329	0.292992	64.655852	
0.85915	9.222260	61.256783	1.059681
0.004329	0.155398	59.039665	
1.00000	9.222260	61.256783	1.059681
0.004329	0.574315	68.283496	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-6.468722	-103.490751	-0.999368
-0.004374	-1.103080	-129.157739	
0.57746	-6.468722	-103.490751	-0.999368
-0.004374	-0.688906	-86.691377	
0.71831	-6.468722	-103.490751	-0.999368
-0.004374	-0.274677	-56.704093	
0.85915	-6.468722	-103.490751	-0.999368
-0.004374	-0.164548	-36.512905	
1.00000	-6.468722	-103.490751	-0.999368
-0.004374	-0.608627	-25.535106	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	4.681677	4.411836	0.894923
0.000367	0.998465	6.007445	
0.57746	4.681677	4.411836	0.894923
0.000367	0.623341	4.753494	
0.71831	4.681677	4.411836	0.894923
0.000367	0.248369	3.768570	
0.85915	4.681677	4.411836	0.894923
0.000367	0.124156	3.568227	
1.00000	4.681677	4.411836	0.894923
0.000367	0.491675	12.142581	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.835209	-31.223124	-0.874520
-0.001084	-0.975333	-48.202238	
0.57746	-0.835209	-31.223124	-0.874520
-0.001084	-0.608329	-35.328818	
0.71831	-0.835209	-31.223124	-0.874520
-0.001084	-0.241771	-24.173666	
0.85915	-0.835209	-31.223124	-0.874520
-0.001084	-0.125972	-15.165971	
1.00000	-0.835209	-31.223124	-0.874520
-0.001084	-0.501087	-13.788770	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.621181	7.254541	1.611698
0.000526	1.793642	8.977612	
0.57746	9.621181	7.254541	1.611698
0.000526	1.118231	6.318385	
0.71831	9.621181	7.254541	1.611698
0.000526	0.442990	4.076346	
0.85915	9.621181	7.254541	1.611698
0.000526	0.193240	3.934622	
1.00000	9.621181	7.254541	1.611698
0.000526	0.773515	17.997048	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.983117	-66.181535	-1.381164
-0.001950	-1.543075	-115.423646	
0.57746	-0.983117	-66.181535	-1.381164
-0.001950	-0.963461	-88.711709	
0.71831	-0.983117	-66.181535	-1.381164
-0.001950	-0.383577	-64.166514	
0.85915	-0.983117	-66.181535	-1.381164
-0.001950	-0.232074	-42.509104	
1.00000	-0.983117	-66.181535	-1.381164
-0.001950	-0.907212	-32.374899	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	10.284942	27.501964	1.933702
0.000390	2.153813	59.772536	
0.57746	10.284942	27.501964	1.933702
0.000390	1.343368	49.466197	
0.71831	10.284942	27.501964	1.933702
0.000390	0.533798	40.634740	
0.85915	10.284942	27.501964	1.933702
0.000390	0.214274	33.453895	
1.00000	10.284942	27.501964	1.933702
0.000390	0.863692	42.471606	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-2.654415	-81.135329	-1.547097
-0.001684	-1.729585	-126.951729	
0.57746	-2.654415	-81.135329	-1.547097
-0.001684	-1.080783	-94.453284	
0.71831	-2.654415	-81.135329	-1.547097
-0.001684	-0.430561	-65.010524	
0.85915	-2.654415	-81.135329	-1.547097
-0.001684	-0.275739	-37.972574	
1.00000	-2.654415	-81.135329	-1.547097
-0.001684	-1.085502	-24.045463	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.960481	39.975200	1.938406
0.003535	2.157352	82.233809	
0.57746	11.960481	39.975200	1.938406
0.003535	1.346007	67.294887	
0.71831	11.960481	39.975200	1.938406
0.003535	0.536952	57.853189	
0.85915	11.960481	39.975200	1.938406
0.003535	0.231993	62.952038	
1.00000	11.960481	39.975200	1.938406
0.003535	0.885832	91.386222	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-4.866826	-128.232505	-1.558793
-0.004150	-1.727980	-156.596795	
0.57746	-4.866826	-128.232505	-1.558793
-0.004150	-1.077994	-104.685931	
0.71831	-4.866826	-128.232505	-1.558793
-0.004150	-0.428409	-62.376503	
0.85915	-4.866826	-128.232505	-1.558793
-0.004150	-0.285586	-31.768628	
1.00000	-4.866826	-128.232505	-1.558793
-0.004150	-1.097193	-22.976775	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	4.977702	5.882161	0.759882
7.21E-06	0.843552	9.337411	
0.57746	4.977702	5.882161	0.759882
7.21E-06	0.525107	7.171018	
0.71831	4.977702	5.882161	0.759882
7.21E-06	0.206699	5.160118	
0.85915	4.977702	5.882161	0.759882
7.21E-06	0.067279	4.425385	
1.00000	4.977702	5.882161	0.759882
7.21E-06	0.278041	8.610963	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.651754	-36.949436	-0.501506
-0.000693	-0.562786	-67.384905	
0.57746	-0.651754	-36.949436	-0.501506
-0.000693	-0.352092	-52.512228	
0.71831	-0.651754	-36.949436	-0.501506
-0.000693	-0.141493	-37.908127	
0.85915	-0.651754	-36.949436	-0.501506
-0.000693	-0.111869	-24.544695	
1.00000	-0.651754	-36.949436	-0.501506
-0.000693	-0.429625	-16.210415	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.528354	28.291640	1.194146
0.004099	1.321259	68.129196	
0.57746	8.528354	28.291640	1.194146
0.004099	0.822474	58.135102	
0.71831	8.528354	28.291640	1.194146
0.004099	0.327400	56.004899	
0.85915	8.528354	28.291640	1.194146
0.004099	0.129491	70.834446	
1.00000	8.528354	28.291640	1.194146
0.004099	0.462843	92.610889	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-2.749136	-103.966048	-0.796579
-0.004529	-0.872442	-111.323262	
0.57746	-2.749136	-103.966048	-0.796579
-0.004529	-0.544242	-69.753566	
0.71831	-2.749136	-103.966048	-0.796579
-0.004529	-0.217254	-40.266924	
0.85915	-2.749136	-103.966048	-0.796579
-0.004529	-0.190401	-22.131065	
1.00000	-2.749136	-103.966048	-0.796579
-0.004529	-0.689326	-9.436512	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.863950	28.064756	1.802057
0.003971	1.999608	64.666308	
0.57746	11.863950	28.064756	1.802057
0.003971	1.245713	54.518227	
0.71831	11.863950	28.064756	1.802057
0.003971	0.494971	51.626977	
0.85915	11.863950	28.064756	1.802057
0.003971	0.206028	63.997145	
1.00000	11.863950	28.064756	1.802057
0.003971	0.775997	90.191018	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-2.692075	-121.599214	-1.358501
-0.004917	-1.502262	-146.329588	
0.57746	-2.692075	-121.599214	-1.358501
-0.004917	-0.937730	-97.044331	
0.71831	-2.692075	-121.599214	-1.358501
-0.004917	-0.374384	-60.365566	
0.85915	-2.692075	-121.599214	-1.358501
-0.004917	-0.276414	-35.138307	
1.00000	-2.692075	-121.599214	-1.358501
-0.004917	-1.029066	-20.126105	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.286647	55.068717	1.890624
0.003314	2.106176	100.951155	
0.57746	11.286647	55.068717	1.890624
0.003314	1.314851	79.219436	
0.71831	11.286647	55.068717	1.890624
0.003314	0.525525	62.435386	
0.85915	11.286647	55.068717	1.890624
0.003314	0.215832	56.039403	
1.00000	11.286647	55.068717	1.890624
0.003314	0.830354	76.010092	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-6.494227	-120.073161	-1.464644
-0.003469	-1.625842	-153.151754	
0.57746	-6.494227	-120.073161	-1.464644
-0.003469	-1.014725	-104.182132	
0.71831	-6.494227	-120.073161	-1.464644
-0.003469	-0.404202	-63.645012	
0.85915	-6.494227	-120.073161	-1.464644
-0.003469	-0.275945	-30.994810	
1.00000	-6.494227	-120.073161	-1.464644
-0.003469	-1.066961	-23.729727	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	2.075975	67.671880	0.682510
0.001354	0.767336	91.241495	
0.57746	2.075975	67.671880	0.682510
0.001354	0.481477	63.050781	
0.71831	2.075975	67.671880	0.682510
0.001354	0.195396	35.100750	
0.85915	2.075975	67.671880	0.682510
0.001354	0.083859	8.951801	
1.00000	2.075975	67.671880	0.682510
0.001354	0.325702	2.930062	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-8.046343	-16.417846	-0.577061
-0.000266	-0.642383	-34.439074	
0.57746	-8.046343	-16.417846	-0.577061
-0.000266	-0.400411	-27.735365	
0.71831	-8.046343	-16.417846	-0.577061
-0.000266	-0.158416	-21.209132	
0.85915	-8.046343	-16.417846	-0.577061
-0.000266	-0.090166	-16.324295	
1.00000	-8.046343	-16.417846	-0.577061
-0.000266	-0.376785	-28.164333	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	6.929140	85.082802	1.047903
0.007333	1.165190	139.042519	
0.57746	6.929140	85.082802	1.047903
0.007333	0.728521	105.085088	
0.71831	6.929140	85.082802	1.047903
0.007333	0.295029	79.792962	
0.85915	6.929140	85.082802	1.047903
0.007333	0.154757	79.384511	
1.00000	6.929140	85.082802	1.047903
0.007333	0.514294	100.911858	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.176565	-105.059078	-0.859369
-0.005926	-0.925516	-95.769426	
0.57746	-10.176565	-105.059078	-0.859369
-0.005926	-0.576176	-53.200932	
0.71831	-10.176565	-105.059078	-0.859369
-0.005926	-0.226998	-25.451540	
0.85915	-10.176565	-105.059078	-0.859369
-0.005926	-0.167536	-14.579360	
1.00000	-10.176565	-105.059078	-0.859369
-0.005926	-0.1166155	-25.774356	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.747687	86.306426	1.520310
0.005554	1.693010	142.662804	
0.57746	8.747687	86.306426	1.520310
0.005554	1.057709	108.320828	
0.71831	8.747687	86.306426	1.520310
0.005554	0.425334	81.736028	
0.85915	8.747687	86.306426	1.520310
0.005554	0.180845	73.609412	
1.00000	8.747687	86.306426	1.520310
0.005554	0.654533	88.717285	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.178462	-110.700127	-1.131397
-0.004591	-1.242557	-119.934871	
0.57746	-10.178462	-110.700127	-1.131397
-0.004591	-0.774378	-75.007092	
0.71831	-10.178462	-110.700127	-1.131397
-0.004591	-0.307378	-42.258547	
0.85915	-10.178462	-110.700127	-1.131397
-0.004591	-0.230211	-21.973293	
1.00000	-10.178462	-110.700127	-1.131397
-0.004591	-0.865132	-23.997346	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.254175	74.188199	1.884777
0.004744	2.097647	121.824212	
0.57746	11.254175	74.188199	1.884777
0.004744	1.309241	92.342047	
0.71831	11.254175	74.188199	1.884777
0.004744	0.523165	69.332445	
0.85915	11.254175	74.188199	1.884777
0.004744	0.217718	61.568540	
1.00000	11.254175	74.188199	1.884777
0.004744	0.817347	78.012238	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-8.611288	-118.684770	-1.430083
-0.004497	-1.561112	-149.389614	
0.57746	-8.611288	-118.684770	-1.430083
-0.004497	-0.986375	-101.114280	
0.71831	-8.611288	-118.684770	-1.430083
-0.004497	-0.392337	-64.179307	
0.85915	-8.611288	-118.684770	-1.430083
-0.004497	-0.281578	-37.777314	
1.00000	-8.611288	-118.684770	-1.430083
-0.004497	-1.069655	-33.311385	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.848439	71.434547	1.099382
0.006899	1.224925	129.334196	
0.57746	9.848439	71.434547	1.099382
0.006899	0.765003	100.603851	
0.71831	9.848439	71.434547	1.099382
0.006899	0.305175	76.138950	
0.85915	9.848439	71.434547	1.099382
0.006899	0.162057	75.712741	
1.00000	9.848439	71.434547	1.099382
0.006899	0.597279	93.762852	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-7.632200	-119.839097	-1.038349
-0.005939	-1.145607	-132.869629	
0.57746	-7.632200	-119.839097	-1.038349
-0.005939	-0.715340	-86.753696	
0.71831	-7.632200	-119.839097	-1.038349
-0.005939	-0.285079	-56.704093	
0.85915	-7.632200	-119.839097	-1.038349
-0.005939	-0.169933	-36.611954	
1.00000	-7.632200	-119.839097	-1.038349
-0.005939	-0.630612	-32.685886	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.960481	86.306426	1.938406
0.007333	2.157352	142.662804	
0.57746	11.960481	86.306426	1.938406
0.007333	1.346007	108.320828	
0.71831	11.960481	86.306426	1.938406
0.007333	0.536952	81.736028	
0.85915	11.960481	86.306426	1.938406
0.007333	0.231993	79.384511	
1.00000	11.960481	86.306426	1.938406
0.007333	0.885832	100.911858	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.178462	-128.232505	-1.558793
-0.005926	-1.729585	-156.596795	
0.57746	-10.178462	-128.232505	-1.558793
-0.005926	-1.080783	-104.685931	
0.71831	-10.178462	-128.232505	-1.558793
-0.005926	-0.430561	-65.010524	
0.85915	-10.178462	-128.232505	-1.558793
-0.005926	-0.285586	-42.509104	
1.00000	-10.178462	-128.232505	-1.558793
-0.005926	-1.097193	-33.311385	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.960481	86.306426	1.938406
0.007333	2.157352	142.662804	
0.57746	11.960481	86.306426	1.938406
0.007333	1.346007	108.320828	
0.71831	11.960481	86.306426	1.938406
0.007333	0.536952	81.736028	
0.85915	11.960481	86.306426	1.938406
0.007333	0.231993	79.384511	
1.00000	11.960481	86.306426	1.938406
0.007333	0.885832	100.911858	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.178462	-128.232505	-1.558793
-0.005939	-1.729585	-156.596795	
0.57746	-10.178462	-128.232505	-1.558793
-0.005939	-1.080783	-104.685931	
0.71831	-10.178462	-128.232505	-1.558793
-0.005939	-0.430561	-65.010524	
0.85915	-10.178462	-128.232505	-1.558793
-0.005939	-0.285586	-42.509104	
1.00000	-10.178462	-128.232505	-1.558793
-0.005939	-1.097193	-33.311385	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.960481	86.306426	1.938406
0.007333	2.157352	142.662804	
0.57746	11.960481	86.306426	1.938406
0.007333	1.346007	108.320828	
0.71831	11.960481	86.306426	1.938406
0.007333	0.536952	81.736028	
0.85915	11.960481	86.306426	1.938406
0.007333	0.231993	79.384511	
1.00000	11.960481	86.306426	1.938406
0.007333	0.885832	100.911858	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.178462	-128.232505	-1.558793
-0.005939	-1.729585	-156.596795	
0.57746	-10.178462	-128.232505	-1.558793
-0.005939	-1.080783	-104.685931	
0.71831	-10.178462	-128.232505	-1.558793
-0.005939	-0.430561	-65.010524	
0.85915	-10.178462	-128.232505	-1.558793
-0.005939	-0.285586	-42.509104	
1.00000	-10.178462	-128.232505	-1.558793
-0.005939	-1.097193	-33.311385	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 285 ========== LENGTH = 2.976463

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.854207	3.231418	0.476311
0.000336	0.265163	8.835888	
0.14081	2.854207	3.231418	0.476311
0.000336	0.065545	17.749956	
0.28162	2.854207	3.231418	0.476311
0.000336	0.161514	26.783145	
0.42243	2.854207	3.231418	0.476311
0.000336	0.400466	35.856326	
0.56324	2.854207	3.231418	0.476311
0.000336	0.639418	44.950502	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.865689	-21.722724	-0.570146
-0.000721	-0.316424	-13.197714	
0.14081	-0.865689	-21.722724	-0.570146
-0.000721	-0.077402	-12.846033	
0.28162	-0.865689	-21.722724	-0.570146
-0.000721	-0.134127	-12.657812	
0.42243	-0.865689	-21.722724	-0.570146
-0.000721	-0.333746	-12.573205	
0.56324	-0.865689	-21.722724	-0.570146
-0.000721	-0.533367	-12.633856	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.935076	7.126080	0.792859
0.000562	0.441619	14.808788	
0.14081	5.935076	7.126080	0.792859
0.000562	0.109405	30.091995	
0.28162	5.935076	7.126080	0.792859
0.000562	0.262188	46.673531	
0.42243	5.935076	7.126080	0.792859
0.000562	0.653040	64.054758	
0.56324	5.935076	7.126080	0.792859
0.000562	1.043922	81.945214	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.009620	-43.149595	-0.932923
-0.001495	-0.520481	-32.686974	
0.14081	-1.009620	-43.149595	-0.932923
-0.001495	-0.129413	-29.223909	
0.28162	-1.009620	-43.149595	-0.932923
-0.001495	-0.223953	-26.691090	
0.42243	-1.009620	-43.149595	-0.932923
-0.001495	-0.555804	-25.071836	
0.56324	-1.009620	-43.149595	-0.932923
-0.001495	-0.887906	-24.678013	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.733486	30.496642	1.004210

```
 0.000355    0.556090   32.284621
0.14081     6.733486   30.496642    1.004210
 0.000355    0.135245   45.118137
0.28162     6.733486   30.496642    1.004210
 0.000355    0.286231   61.204306
0.42243     6.733486   30.496642    1.004210
 0.000355    0.716250   82.957917
0.56324     6.733486   30.496642    1.004210
 0.000355    1.146350  106.757426

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -2.941244  -56.984192   -1.026053
-0.001725   -0.573756  -23.209184
0.14081    -2.941244  -56.984192   -1.026053
-0.001725   -0.143579  -21.728512
0.28162    -2.941244  -56.984192   -1.026053
-0.001725   -0.286004  -28.403732
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3054

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
0.42243    -2.941244  -56.984192   -1.026053
-0.001725   -0.706703  -37.386233
0.56324    -2.941244  -56.984192   -1.026053
-0.001725   -1.127578  -47.123720

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     7.585209   71.273854    1.080182
 0.003968    0.614793   89.392522
0.14081     7.585209   71.273854    1.080182
 0.003968    0.162870   97.345589
0.28162     7.585209   71.273854    1.080182
 0.003968    0.287292  107.894018
0.42243     7.585209   71.273854    1.080182
 0.003968    0.717394  133.086783
0.56324     7.585209   71.273854    1.080182
 0.003968    1.147596  166.485310

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -6.202731  -81.276707   -1.032199
-0.004732   -0.590057  -22.146622
0.14081    -6.202731  -81.276707   -1.032199
-0.004732   -0.157747  -25.452708
0.28162    -6.202731  -81.276707   -1.032199
-0.004732   -0.303933  -35.636143
0.42243    -6.202731  -81.276707   -1.032199
-0.004732   -0.753051  -47.758257
0.56324    -6.202731  -81.276707   -1.032199
-0.004732   -1.202352  -71.357211

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     3.367206    6.262088    0.348446
8.93E-06    0.191672    7.533051
0.14081     3.367206    6.262088    0.348446
8.93E-06    0.045766   13.122623
0.28162     3.367206    6.262088    0.348446
8.93E-06    0.097137   21.647086
0.42243     3.367206    6.262088    0.348446
8.93E-06    0.244447   31.947051
0.56324     3.367206    6.262088    0.348446
8.93E-06    0.391782   42.395853

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -0.755251  -25.454445   -0.351548
-0.000685   -0.197727  -17.725738
0.14081    -0.755251  -25.454445   -0.351548
-0.000685   -0.050504  -15.570582
0.28162    -0.755251  -25.454445   -0.351548
-0.000685   -0.100728  -15.211435
0.42243    -0.755251  -25.454445   -0.351548
-0.000685   -0.150650  -15.527041
0.56324    -0.755251  -25.454445   -0.351548
-0.000685   -0.392533  -17.244050

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     4.313838   78.620826    0.669040
 0.004634    0.389723   91.467540
0.14081     4.313838   78.620826    0.669040
 0.004634    0.110182   74.811951
0.28162     4.313838   78.620826    0.669040
 0.004634    0.140753   61.563041
0.42243     4.313838   78.620826    0.669040
 0.004634    0.354363   68.246273
0.56324     4.313838   78.620826    0.669040
 0.004634    0.568096   86.044267

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -5.639754  -44.638216   -0.517848
-0.005489   -0.309936   -9.978589
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3055

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
0.14081    -5.639754  -44.638216   -0.517848
-0.005489   -0.093368   -9.449037
0.28162    -5.639754  -44.638216   -0.517848
-0.005489   -0.189043   -1.779739
0.42243    -5.639754  -44.638216   -0.517848
-0.005489   -0.464583  -28.546408
0.56324    -5.639754  -44.638216   -0.517848
-0.005489   -0.740328  -54.864980

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     6.389123   73.084716    0.968112
 0.004432    0.554655   87.936617
0.14081     6.389123   73.084716    0.968112
 0.004432    0.149632   80.514154
0.28162     6.389123   73.084716    0.968112
 0.004432    0.249664   76.140160
0.42243     6.389123   73.084716    0.968112
 0.004432    0.625131   89.881691
0.56324     6.389123   73.084716    0.968112
 0.004432    1.000689  113.591560

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -5.240363  -58.506591   -0.903240
-0.005533   -0.522512  -20.787593
0.14081    -5.240363  -58.506591   -0.903240
-0.005533   -0.144392  -19.733680
0.28162    -5.240363  -58.506591   -0.903240
-0.005533   -0.273036  -26.700646
0.42243    -5.240363  -58.506591   -0.903240
-0.005533   -0.674428  -35.673015
0.56324    -5.240363  -58.506591   -0.903240
-0.005533   -1.075968  -58.661316

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     7.627303   75.452821    1.044615
 0.003565    0.592750   75.775171
0.14081     7.627303   75.452821    1.044615
 0.003565    0.155633   86.020754
0.28162     7.627303   75.452821    1.044615
 0.003565    0.277693   99.413367
0.42243     7.627303   75.452821    1.044615
 0.003565    0.694979  125.705619
0.56324     7.627303   75.452821    1.044615
 0.003565    1.112333  158.955156

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -6.734608  -80.636893   -1.000409
-0.004071   -0.570736  -22.994923
0.14081    -6.734608  -80.636893   -1.000409
-0.004071   -0.151617  -30.761222
0.28162    -6.734608  -80.636893   -1.000409
-0.004071   -0.293840  -45.530259
0.42243    -6.734608  -80.636893   -1.000409
-0.004071   -0.728688  -62.162074
0.56324    -6.734608  -80.636893   -1.000409
-0.004071   -1.163688  -88.136215

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     2.342966   45.190731    0.402265
 0.001245    0.224484    2.412377
0.14081     2.342966   45.190731    0.402265
 0.001245    0.055879    3.351775
0.28162     2.342966   45.190731    0.402265
 0.001245    0.124818    5.237068
0.42243     2.342966   45.190731    0.402265
 0.001245    0.311587   12.130143
0.56324     2.342966   45.190731    0.402265
 0.001245    0.498351   19.071706
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3056

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -5.149573  -17.325818   -0.445626
-0.000343   -0.248740  -13.055294
0.14081    -5.149573  -17.325818   -0.445626
-0.000343   -0.061870  -31.049998
0.28162    -5.149573  -17.325818   -0.445626
-0.000343   -0.112732  -49.412082
0.42243    -5.149573  -17.325818   -0.445626
-0.000343   -0.281321  -68.109149
0.56324    -5.149573  -17.325818   -0.445626
-0.000343   -0.449910  -86.960822

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     3.635099  119.394070    0.672724
 0.006948    0.400025   94.096088
0.14081     3.635099  119.394070    0.672724
 0.006948    0.119665   74.096801
0.28162     3.635099  119.394070    0.672724
 0.006948    0.169286   61.245035
0.42243     3.635099  119.394070    0.672724
 0.006948    0.420801   65.868846
0.56324     3.635099  119.394070    0.672724
 0.006948    0.672350   82.358486

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -10.269075  -43.745896   -0.610136
-0.005933   -0.362481  -14.209239
0.14081   -10.269075  -43.745896   -0.610136
-0.005933   -0.107367  -33.958175
0.28162   -10.269075  -43.745896   -0.610136
-0.005933   -0.185321  -54.959995
0.42243   -10.269075  -43.745896   -0.610136
-0.005933   -0.461582  -79.229117
0.56324   -10.269075  -43.745896   -0.610136
-0.005933   -0.737857 -122.644921

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     5.635242  109.524815    0.892693
 0.005055    0.511394   78.185230
0.14081     5.635242  109.524815    0.892693
 0.005055    0.138861   70.217264
0.28162     5.635242  109.524815    0.892693
 0.005055    0.218077   68.071279
0.42243     5.635242  109.524815    0.892693
 0.005055    0.546665   83.317023
0.56324     5.635242  109.524815    0.892693
 0.005055    0.875314  107.911450

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -9.885498  -60.381769   -0.790795
-0.004772   -0.548654  -13.946661
0.14081    -9.885498  -60.381769   -0.790795
-0.004772   -0.127606  -32.024720
0.28162    -9.885498  -60.381769   -0.790795
-0.004772   -0.251769  -58.308964
0.42243    -9.885498  -60.381769   -0.790795
-0.004772   -0.621979  -86.364645
0.56324    -9.885498  -60.381769   -0.790795
-0.004772   -0.992227 -127.222157

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     7.089333   92.724758    1.030186
 0.004317    0.585768   68.480586
0.14081     7.089333   92.724758    1.030186
 0.004317    0.155318   68.444871
0.28162     7.089333   92.724758    1.030186
 0.004317    0.277505   73.637940
0.42243     7.089333   92.724758    1.030186
 0.004317    0.695027   93.183502
0.56324     7.089333   92.724758    1.030186
 0.004317    1.112632  120.631053
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3057

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -8.331106  -67.046628   -1.001831
-0.004455   -0.573718  -25.517533
0.14081    -8.331106  -67.046628   -1.001831
-0.004455   -0.154060  -38.766551
0.28162    -8.331106  -67.046628   -1.001831
-0.004455   -0.290163  -59.022415
0.42243    -8.331106  -67.046628   -1.001831
-0.004455   -0.718582  -81.196915
0.56324    -8.331106  -67.046628   -1.001831
-0.004455   -1.147126 -114.193912

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     4.660569    4.438972    0.889222
 0.000303    0.495188   12.152498
0.14081     4.660569    4.438972    0.889222
 0.000303    0.122905   23.592898
0.28162     4.660569    4.438972    0.889222
 0.000303    0.240636   35.868818
0.42243     4.660569    4.438972    0.889222
 0.000303    0.595081   48.442969
0.56324     4.660569    4.438972    0.889222
 0.000303    0.950001   61.168228

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -0.832164  -31.207323   -0.846135
-0.000722   -0.468640  -13.792844
0.14081    -0.832164  -31.207323   -0.846135
-0.000722   -0.113321  -13.480428
0.28162    -0.832164  -31.207323   -0.846135
-0.000722   -0.248030  -13.992173
0.42243    -0.832164  -31.207323   -0.846135
-0.000722   -0.621245  -14.851042
0.56324    -0.832164  -31.207323   -0.846135
-0.000722   -0.993543  -15.877608

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     9.499005    8.197472    1.530520
 0.000444    0.845520   18.018245
0.14081     9.499005    8.197472    1.530520
 0.000444    0.252512   39.760927
0.28162     9.499005    8.197472    1.530520
 0.000444    0.387539   63.914046
0.42243     9.499005    8.197472    1.530520
 0.000444    0.972150   89.092579
0.56324     9.499005    8.197472    1.530520
 0.000444    1.556483  114.792549

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -1.045805  -64.787725   -1.393146
-0.001458   -0.779281  -32.378810
0.14081    -1.045805  -64.787725   -1.393146
-0.001458   -0.194720  -28.257937
0.28162    -1.045805  -64.787725   -1.393146
-0.001458   -0.435840  -26.738690
0.42243    -1.045805  -64.787725   -1.393146
-0.001458   -1.076472  -27.031154
0.56324    -1.045805  -64.787725   -1.393146
-0.001458   -1.717236  -28.351619

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    10.214804   27.140092    1.842017
 0.000314    1.016007   42.498890
0.14081    10.214804   27.140092    1.842017
 0.000314    0.245402   65.424019
0.28162    10.214804   27.140092    1.842017
 0.000314    0.436432   93.199065
0.42243    10.214804   27.140092    1.842017
 0.000314    1.199863  124.283779
0.56324    10.214804   27.140092    1.842017
 0.000314    1.759380  156.794160
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3058

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -2.624339  -80.904886   -1.576494
-0.001686   -0.881824  -24.046487
0.14081    -2.624339  -80.904886   -1.576494
-0.001686   -0.220810  -21.873621
0.28162    -2.624339  -80.904886   -1.576494
-0.001686   -0.525795  -28.022573
0.42243    -2.624339  -80.904886   -1.576494
-0.001686   -1.296344  -36.723078
0.56324    -2.624339  -80.904886   -1.576494
-0.001686   -2.067833  -46.033048

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    10.247835   65.364716    1.890465
 0.003159    1.058842   91.436929
0.14081    10.247835   65.364716    1.890465
 0.003159    0.268391  109.872773
0.28162    10.247835   65.364716    1.890465
 0.003159    0.432017  132.985269
0.42243    10.247835   65.364716    1.890465
 0.003159    1.082855  166.286007
0.56324    10.247835   65.364716    1.890465
 0.003159    1.733937  205.970553

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -6.458154  -99.363697   -1.558821
-0.004026   -0.882133  -22.967710
0.14081    -6.458154  -99.363697   -1.558821
-0.004026   -0.229107  -26.569564
0.28162    -6.458154  -99.363697   -1.558821
-0.004026   -0.534060  -37.739879
0.42243    -6.458154  -99.363697   -1.558821
-0.004026   -1.221240  -52.065947
0.56324    -6.458154  -99.363697   -1.558821
-0.004026   -2.110587  -76.936277

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     4.936813    5.783829    0.676971
5.21E-06    0.368275    8.622793
0.14081     4.936813    5.783829    0.676971
5.21E-06    0.085733   19.529981
0.28162     4.936813    5.783829    0.676971
5.21E-06    0.146947   32.982066
0.42243     4.936813    5.783829    0.676971
5.21E-06    0.376479   47.345065
0.56324     4.936813    5.783829    0.676971
5.21E-06    0.606304   61.939663

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -0.651476  -36.701594   -0.547287
-0.000669   -0.310998  -16.210636
0.14081    -0.651476  -36.701594   -0.547287
-0.000669   -0.081490  -13.560079
0.28162    -0.651476  -36.701594   -0.547287
-0.000669   -0.198256  -12.853132
0.42243    -0.651476  -36.701594   -0.547287
-0.000669   -0.481560  -13.626109
0.56324    -0.651476  -36.701594   -0.547287
-0.000669   -0.765105  -15.011428

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     5.914287   67.002462    1.119286
 0.003957    0.633423   92.675349
0.14081     5.914287   67.002462    1.119286
 0.003957    0.166565   87.934285
0.28162     5.914287   67.002462    1.119286
 0.003957    0.222916   87.310371
0.42243     5.914287   67.002462    1.119286
 0.003957    0.566188  101.164163
0.56324     5.914287   67.002462    1.119286
 0.003957    0.910582  124.015039
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3059

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -5.157465  -59.485733   -0.830316
-0.004983   -0.486066   -9.430800
0.14081    -5.157465  -59.485733   -0.830316
-0.004983   -0.139398   -8.622290
0.28162    -5.157465  -59.485733   -0.830316
-0.004983   -0.319961   -15.393890
0.42243    -5.157465  -59.485733   -0.830316
-0.004983   -0.781607   -25.593673
0.56324    -5.157465  -59.485733   -0.830316
-0.004983   -1.246789   -51.394253

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     9.476737   63.126067    1.707948
 0.003794    0.957653   90.258015
0.14081     9.476737   63.126067    1.707948
 0.003794    0.244220   96.294011
0.28162     9.476737   63.126067    1.707948
 0.003794    0.381365  106.520875
0.42243     9.476737   63.126067    1.707948
 0.003794    0.961285  130.075537
0.56324     9.476737   63.126067    1.707948
 0.003794    1.542326  161.807121

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -4.873089  -81.283530   -1.393821
-0.005088   -0.798888   -20.123082
0.14081    -4.873089  -81.283530   -1.393821
-0.005088   -0.215184   -19.018330
0.28162    -4.873089  -81.283530   -1.393821
-0.005088   -0.486538   -25.069843
0.42243    -4.873089  -81.283530   -1.393821
-0.005088   -1.195528   -34.207913
0.56324    -4.873089  -81.283530   -1.393821
-0.005088   -1.907698   -57.534723

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     9.869025   76.162618    1.847952
 0.002994    1.032241   76.049869
0.14081     9.869025   76.162618    1.847952
 0.002994    0.259695   96.393385
0.28162     9.869025   76.162618    1.847952
 0.002994    0.409384  120.758596
0.42243     9.869025   76.162618    1.847952
 0.002994    1.028218  154.022819
0.56324     9.869025   76.162618    1.847952
 0.002994    1.647529  192.549050

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -7.831821  -96.148843   -1.482289
-0.003551   -0.839843   -23.712200
0.14081    -7.831821  -96.148843   -1.482289
-0.003551   -0.218825   -35.295739
0.28162    -7.831821  -96.148843   -1.482289
-0.003551   -0.523543   -53.590859
0.42243    -7.831821  -96.148843   -1.482289
-0.003551   -1.293410   -74.350437
0.56324    -7.831821  -96.148843   -1.482289
-0.003551   -2.065292  -103.831149

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     2.104179   67.825936    0.729061
 0.001276    0.408800    2.924803
0.14081     2.104179   67.825936    0.729061
 0.001276    0.102768    4.348018
0.28162     2.104179   67.825936    0.729061
 0.001276    0.157680    8.624602
0.42243     2.104179   67.825936    0.729061
 0.001276    0.392206   15.243828
0.56324     2.104179   67.825936    0.729061
 0.001276    0.626695   22.034632
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3060

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000    -8.095055  -16.638732   -0.559565
-0.000302   -0.311508   -28.139647
0.14081    -8.095055  -16.638732   -0.559565
-0.000302   -0.076978   -53.779936
0.28162    -8.095055  -16.638732   -0.559565
-0.000302   -0.202091   -80.807906
0.42243    -8.095055  -16.638732   -0.559565
-0.000302   -0.507637  -108.889872
0.56324    -8.095055  -16.638732   -0.559565
-0.000302   -0.812767  -137.156001

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     3.326747  140.556271    1.111955
 0.006960    0.650270  100.973650
0.14081     3.326747  140.556271    1.111955
 0.006960    0.185340   83.420669
0.28162     3.326747  140.556271    1.111955
 0.006960    0.224492   70.414674
0.42243     3.326747  140.556271    1.111955
 0.006960    0.555217   74.300877
0.56324     3.326747  140.556271    1.111955
 0.006960    0.889023   90.057720

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -13.678718  -42.578062   -0.807825
-0.006102   -0.474401   -25.741647
0.14081   -13.678718  -42.578062   -0.807825
-0.006102   -0.137120   -54.007827
0.28162   -13.678718  -42.578062   -0.807825
-0.006102   -0.303785   -84.627454
0.42243   -13.678718  -42.578062   -0.807825
-0.006102   -0.761285  -119.921413
0.56324   -13.678718  -42.578062   -0.807825
-0.006102   -1.221667  -176.998195

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000     6.127988  126.192167    1.527933
 0.005245    0.867518   88.771803
0.14081     6.127988  126.192167    1.527933
 0.005245    0.228709   86.307699
```

0.28162 6.127988 126.192167 1.527933
0.005245 0.309953 89.039667
0.42243 6.127988 126.192167 1.527933
0.005245 0.777778 106.215822
0.56324 6.127988 126.192167 1.527933
0.005245 1.246624 132.152178

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.698155 -65.619006 -1.128098
-0.005021 -0.649577 -23.966612
0.14081 -12.698155 -65.619006 -1.128098
-0.005021 -0.177950 -50.375239
0.28162 -12.698155 -65.619006 -1.128098
-0.005021 -0.428333 -83.185098
0.42243 -12.698155 -65.619006 -1.128098
-0.005021 -1.061613 -118.549442
0.56324 -12.698155 -65.619006 -1.128098
-0.005021 -1.697781 -169.686158

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.054955 107.251385 1.843367
0.004467 1.035728 78.065232
0.14081 9.054955 107.251385 1.843367
0.004467 0.264952 85.132377
0.28162 9.054955 107.251385 1.843367
0.004467 0.397598 97.379264
0.42243 9.054955 107.251385 1.843367
0.004467 1.000987 121.851492
0.56324 9.054955 107.251385 1.843367
0.004467 1.605039 153.743780
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3061

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.700771 -81.136599 -1.448432
-0.004673 -0.827624 -33.286777
0.14081 -10.700771 -81.136599 -1.448432
-0.004673 -0.221259 -53.225969
0.28162 -10.700771 -81.136599 -1.448432
-0.004673 -0.521235 -79.565334
0.42243 -10.700771 -81.136599 -1.448432
-0.004673 -1.287782 -108.601680
0.56324 -10.700771 -81.136599 -1.448432
-0.004673 -2.056609 -150.887054

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.627303 119.394070 1.080182
0.006948 0.614793 94.096088
0.14081 7.627303 119.394070 1.080182
0.006948 0.162870 97.345589
0.28162 7.627303 119.394070 1.080182
0.006948 0.287292 107.894018
0.42243 7.627303 119.394070 1.080182
0.006948 0.717394 133.083783
0.56324 7.627303 119.394070 1.080182
0.006948 1.147596 166.485310

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.269075 -81.276707 -1.032199
-0.005933 -0.590057 -32.686974
0.14081 -10.269075 -81.276707 -1.032199
-0.005933 -0.157747 -38.766551
0.28162 -10.269075 -81.276707 -1.032199
-0.005933 -0.303933 -59.022415
0.42243 -10.269075 -81.276707 -1.032199
-0.005933 -0.753051 -86.364645
0.56324 -10.269075 -81.276707 -1.032199
-0.005933 -1.202352 -127.222157

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.247835 140.556271 1.890465
0.006960 1.058842 100.973650
0.14081 10.247835 140.556271 1.890465
0.006960 0.268391 109.872773
0.28162 10.247835 140.556271 1.890465
0.006960 0.436432 132.985269
0.42243 10.247835 140.556271 1.890465
0.006960 1.098663 166.286007
0.56324 10.247835 140.556271 1.890465
0.006960 1.759380 205.970553

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.678718 -99.363697 -1.576494
-0.006102 -0.882133 -33.286777
0.14081 -13.678718 -99.363697 -1.576494
-0.006102 -0.229107 -54.007827
0.28162 -13.678718 -99.363697 -1.576494
-0.006102 -0.534060 -84.627454
0.42243 -13.678718 -99.363697 -1.576494
-0.006102 -1.321240 -119.921413
0.56324 -13.678718 -99.363697 -1.576494
-0.006102 -2.110587 -176.998195

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.247835 140.556271 1.890465
0.006960 1.058842 100.973650
0.14081 10.247835 140.556271 1.890465
0.006960 0.268391 109.872773
0.28162 10.247835 140.556271 1.890465
0.006960 0.436432 132.985269
0.42243 10.247835 140.556271 1.890465
0.006960 1.098663 166.286007
0.56324 10.247835 140.556271 1.890465
0.006960 1.759380 205.970553
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3062

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.678718 -99.363697 -1.576494
-0.006102 -0.882133 -33.286777
0.14081 -13.678718 -99.363697 -1.576494
-0.006102 -0.229107 -54.007827
0.28162 -13.678718 -99.363697 -1.576494
-0.006102 -0.534060 -84.627454
0.42243 -13.678718 -99.363697 -1.576494
-0.006102 -1.321240 -119.921413
0.56324 -13.678718 -99.363697 -1.576494
-0.006102 -2.110587 -176.998195

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.247835 140.556271 1.890465
0.006960 1.058842 100.973650
0.14081 10.247835 140.556271 1.890465
0.006960 0.268391 109.872773
0.28162 10.247835 140.556271 1.890465
0.006960 0.436432 132.985269
0.42243 10.247835 140.556271 1.890465
0.006960 1.098663 166.286007
0.56324 10.247835 140.556271 1.890465
0.006960 1.759380 205.970553

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.678718 -99.363697 -1.576494
-0.006102 -0.882133 -33.286777
0.14081 -13.678718 -99.363697 -1.576494
-0.006102 -0.229107 -54.007827
0.28162 -13.678718 -99.363697 -1.576494
-0.006102 -0.534060 -84.627454
0.42243 -13.678718 -99.363697 -1.576494
-0.006102 -1.321240 -119.921413
0.56324 -13.678718 -99.363697 -1.576494
-0.006102 -2.110587 -176.998195

ELEM 286 ========== LENGTH = 2.977195

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 2.182211 3.536672 0.546097
0.000752 0.587510 5.293307
0.57749 2.182211 3.536672 0.546097
0.000752 0.358532 3.811453
0.71833 2.182211 3.536672 0.546097
0.000752 0.129554 2.332950
0.85916 2.182211 3.536672 0.546097
0.000752 0.123234 1.333985
1.00000 2.182211 3.536672 0.546097
0.000752 0.409276 3.498587

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -1.617963 -20.303777 -0.682091
-0.000780 -0.734739 -31.816144
0.57749 -1.617963 -20.303777 -0.682091
-0.000780 -0.448739 -23.360544
0.71833 -1.617963 -20.303777 -0.682091
-0.000780 -0.162739 -14.967158
0.85916 -1.617963 -20.303777 -0.682091
-0.000780 -0.099445 -6.876931
1.00000 -1.617963 -20.303777 -0.682091
-0.000780 -0.328418 -1.170497

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 8.364225 5.270793 0.900315
0.001432 0.968892 7.746444
0.57749 8.364225 5.270793 0.900315
0.001432 0.591388 5.562467
0.71833 8.364225 5.270793 0.900315
0.001432 0.213883 3.461164
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3063

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85916 8.364225 5.270793 0.900315
0.001432 0.204592 2.333121
1.00000 8.364225 5.270793 0.900315
0.001432 0.678968 8.448974

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -0.453041 -41.847139 -1.131331
-0.001392 -1.218882 -73.744070
0.57749 -0.453041 -41.847139 -1.131331
-0.001392 -0.744517 -57.468945
0.71833 -0.453041 -41.847139 -1.131331
-0.001392 -0.270133 -41.479672
0.85916 -0.453041 -41.847139 -1.131331
-0.001392 -0.164206 -25.290120
1.00000 -0.453041 -41.847139 -1.131331
-0.001392 -0.541602 -15.425806

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 8.936503 4.642205 1.069617
0.001002 1.151867 7.272401
0.57749 8.936503 4.642205 1.069617
0.001002 0.703378 5.327550
0.71833 8.936503 4.642205 1.069617
0.001002 0.254739 3.382693
0.85916 8.936503 4.642205 1.069617
0.001002 0.233926 2.413256
1.00000 8.936503 4.642205 1.069617
0.001002 0.778898 15.652639

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -0.309681 -52.107009 -1.299371
-0.001008 -1.400414 -77.011309
0.57749 -0.309681 -52.107009 -1.299371
-0.001008 -0.855589 -55.954013
0.71833 -0.309681 -52.107009 -1.299371
-0.001008 -0.310604 -35.004067
0.85916 -0.309681 -52.107009 -1.299371
-0.001008 -0.193554 -15.832948
1.00000 -0.309681 -52.107009 -1.299371
-0.001008 -0.642114 -7.924490

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 9.048991 15.732911 1.096933
0.004247 1.181297 24.231124
0.57749 9.048991 15.732911 1.096933
0.004247 0.721355 18.158923
0.71833 9.048991 15.732911 1.096933
0.004247 0.261320 13.680692
0.85916 9.048991 15.732911 1.096933
0.004247 0.239289 29.229872
1.00000 9.048991 15.732911 1.096933
0.004247 0.774557 67.188056

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -2.874253 -110.216944 -1.279421
-0.003487 -1.378613 -122.041423
0.57749 -2.874253 -110.216944 -1.279421
-0.003487 -0.842153 -76.475234
0.71833 -2.874253 -110.216944 -1.279421
-0.003487 -0.305548 -34.696489
0.85916 -2.874253 -110.216944 -1.279421
-0.003487 0.210470 13.523914
1.00000 -2.874253 -110.216944 -1.279421
-0.003487 -0.667691 -8.950867

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 6.556755 1.157630 0.354518
0.000477 0.382098 1.610576
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3064

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57749 6.556755 1.157630 0.354518
0.000477 0.233449 1.132656
0.71833 6.556755 1.157630 0.354518
0.000477 0.084785 0.667576
0.85916 6.556755 1.157630 0.354518
0.000477 0.081657 0.292310
1.00000 6.556755 1.157630 0.354518
0.000477 0.272057 4.993871

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -0.147761 -22.304748 -0.453994
-0.000443 -0.489409 -43.714997
0.57749 -0.147761 -22.304748 -0.453994
-0.000443 -0.299050 -36.240681
0.71833 -0.147761 -22.304748 -0.453994
-0.000443 -0.108655 -29.312251
0.85916 -0.147761 -22.304748 -0.453994
-0.000443 -0.063834 -22.474239
1.00000 -0.147761 -22.304748 -0.453994
-0.000443 -0.212515 -15.764039

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 8.979837 4.580644 0.636546
0.004409 0.686211 5.779006
0.57749 8.979837 4.580644 0.636546
0.004409 0.419308 4.514510
0.71833 8.979837 4.580644 0.636546
0.004409 0.152278 5.291415
0.85916 8.979837 4.580644 0.636546
0.004409 0.139104 32.121789
1.00000 8.979837 4.580644 0.636546
0.004409 0.434938 69.738023

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -1.206794 -95.328314 -0.709571
-0.003346 -0.765190 -95.050302
0.57749 -1.206794 -95.328314 -0.709571
-0.003346 -0.467667 -55.895053
0.71833 -1.206794 -95.328314 -0.709571
-0.003346 -0.169965 -21.742532
0.85916 -1.206794 -95.328314 -0.709571
-0.003346 -0.130865 -9.614361
1.00000 -1.206794 -95.328314 -0.709571
-0.003346 -0.394020 -8.669627

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 10.687179 6.685635 0.992205
0.004546 1.068782 9.001924
0.57749 10.687179 6.685635 0.992205
0.004546 0.652752 6.761774
0.71833 10.687179 6.685635 0.992205
0.004546 0.236596 6.392916
0.85916 10.687179 6.685635 0.992205
0.004546 0.220294 28.481121
1.00000 10.687179 6.685635 0.992205
0.004546 0.707411 65.489155

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -1.227790 -102.909058 -1.165320
-0.003605 -1.256129 -111.766441
0.57749 -1.227790 -102.909058 -1.165320
-0.003605 -0.767512 -69.315413
0.71833 -1.227790 -102.909058 -1.165320
-0.003605 -0.278694 -31.527645
0.85916 -1.227790 -102.909058 -1.165320
-0.003605 -0.194097 -14.514413
1.00000 -1.227790 -102.909058 -1.165320
-0.003605 -0.606743 -10.166444
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3065

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 8.724424 25.339499 1.028930
0.003720 1.108269 37.735884
0.57749 8.724424 25.339499 1.028930
0.003720 0.676843 27.536653
0.71833 8.724424 25.339499 1.028930
0.003720 0.245317 18.624886
0.85916 8.724424 25.339499 1.028930
0.003720 0.227206 25.958001
1.00000 8.724424 25.339499 1.028930
0.003720 0.738363 57.010885

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -4.220540 -93.899700 -1.221193
-0.003055 -1.315518 -104.450468
0.57749 -4.220540 -93.899700 -1.221193
-0.003055 -0.803760 -65.841567
0.71833 -4.220540 -93.899700 -1.221193
-0.003055 -0.291452 -30.314562
0.85916 -4.220540 -93.899700 -1.221193
-0.003055 -0.195743 -13.445946
1.00000 -4.220540 -93.899700 -1.221193
-0.003055 -0.624933 -11.985534

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 0.212520 43.347643 0.392911
0.000866 0.422787 61.100779
0.57749 0.212520 43.347643 0.392911
0.000866 0.258039 42.931311
0.71833 0.212520 43.347643 0.392911
0.000866 0.093291 24.764647
0.85916 0.212520 43.347643 0.392911
0.000866 0.083685 6.632648
1.00000 0.212520 43.347643 0.392911
0.000866 0.276727 1.566783

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -5.889185 -4.091863 -0.460321
-0.000863 -0.495336 -5.598050
0.57749 -5.889185 -4.091863 -0.460321
-0.000863 -0.302323 -3.895139
0.71833 -5.889185 -4.091863 -0.460321
-0.000863 -0.109295 -2.283947
0.85916 -5.889185 -4.091863 -0.460321
-0.000863 -0.071455 -0.877906
1.00000 -5.889185 -4.091863 -0.460321
-0.000863 -0.236220 -12.472450

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 2.911634 53.609399 0.628773
0.006079 0.676940 82.837921
0.57749 2.911634 53.609399 0.628773
0.006079 0.413296 61.183631
0.71833 2.911634 53.609399 0.628773
0.006079 0.149616 42.007797
0.85916 2.911634 53.609399 0.628773
0.006079 0.137517 53.127368
1.00000 2.911634 53.609399 0.628773
0.006079 0.420345 76.943717

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -9.021328 -84.907707 -0.679481
-0.004810 -0.731499 -68.104812
0.57749 -9.021328 -84.907707 -0.679481
-0.004810 -0.446581 -32.624597
0.71833 -9.021328 -84.907707 -0.679481
-0.004810 -0.161636 -3.756151
0.85916 -9.021328 -84.907707 -0.679481
-0.004810 -0.133969 -1.440955
1.00000 -9.021328 -84.907707 -0.679481
-0.004810 -0.392992 -14.140736
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3066

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 5.782091 44.252122 0.838254
0.004401 0.903047 62.376303
0.57749 5.782091 44.252122 0.838254
0.004401 0.551568 44.339401
0.71833 5.782091 44.252122 0.838254
0.004401 0.199977 28.038761
0.85916 5.782091 44.252122 0.838254
0.004401 0.180737 33.497908
1.00000 5.782091 44.252122 0.838254
0.004401 0.576501 59.031565

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -6.762990 -79.582871 -0.947109
-0.003528 -1.020362 -74.777668
0.57749 -6.762990 -79.582871 -0.947109
-0.003528 -0.623230 -41.490550
0.71833 -6.762990 -79.582871 -0.947109
-0.003528 -0.225932 -12.405461
0.85916 -6.762990 -79.582871 -0.947109
-0.003528 -0.165065 -2.054437
1.00000 -6.762990 -79.582871 -0.947109
-0.003528 -0.513412 -12.744722

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 9.089501 38.667836 1.028609
0.004123 1.107777 54.612102
0.57749 9.089501 38.667836 1.028609
0.004123 0.676477 38.832903
0.71833 9.089501 38.667836 1.028609
0.004123 0.245089 24.483624
0.85916 9.089501 38.667836 1.028609
0.004123 0.225654 28.288388
1.00000 9.089501 38.667836 1.028609
0.004123 0.730140 51.123268

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -5.738414 -81.141354 -1.205744
-0.003393 -1.299056 -89.302537
0.57749 -5.738414 -81.141354 -1.205744
-0.003393 -0.793481 -55.941839
0.71833 -5.738414 -81.141354 -1.205744
-0.003393 -0.287757 -26.177100
0.85916 -5.738414 -81.141354 -1.205744
-0.003393 -0.197384 -12.367778
1.00000 -5.738414 -81.141354 -1.205744
-0.003393 -0.626127 -17.868589

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 3.621205 4.539614 0.994674
0.000765 1.070731 7.079362
0.57749 3.621205 4.539614 0.994674
0.000765 0.653172 5.183037
0.71833 3.621205 4.539614 0.994674
0.000765 0.236203 3.294371
0.85916 3.621205 4.539614 0.994674
0.000765 0.183557 1.789586
1.00000 3.621205 4.539614 0.994674
0.000765 0.611676 6.004167

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -1.442775 -38.939318 -1.018745
-0.000830 -1.096951 -60.489568
0.57749 -1.442775 -38.939318 -1.018745
-0.000830 -0.669988 -44.189989
0.71833 -1.442775 -38.939318 -1.018745
-0.000830 -0.242753 -27.913035
0.85916 -1.442775 -38.939318 -1.018745
-0.000830 -0.179475 -11.789484
1.00000 -1.442775 -38.939318 -1.018745
-0.000830 -0.596162 -1.484885
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3067

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 14.456017 6.517730 1.694627
0.001361 1.823360 9.753476
0.57749 14.456017 6.517730 1.694627
0.001361 1.112245 7.035139
0.71833 14.456017 6.517730 1.694627
0.001361 0.402112 4.409734
0.85916 14.456017 6.517730 1.694627
0.001361 0.307220 2.365241
1.00000 14.456017 6.517730 1.694627
0.001361 1.024729 11.528355

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -0.746989 -81.346265 -1.707584
-0.001378 -1.839361 -139.222501
0.57749 -0.746989 -81.346265 -1.707584
-0.001378 -1.123309 -105.187630
0.71833 -0.746989 -81.346265 -1.707584
-0.001378 -0.406764 -71.308844
0.85916 -0.746989 -81.346265 -1.707584
-0.001378 -0.306570 -38.151273
1.00000 -0.746989 -81.346265 -1.707584
-0.001378 -1.016505 -14.736079

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 15.369312 6.766089 2.007745
0.001034 2.160651 11.558409
0.57749 15.369312 6.766089 2.007745
0.001034 1.318235 8.761963

0.71833	15.369312	6.766089	2.007745
0.001034	0.476938	6.026615	
0.85916	15.369312	6.766089	2.007745
0.001034	0.358815	6.322482	
1.00000	15.369312	6.766089	2.007745
0.001034	1.199045	29.055580	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-0.857393	-101.084899	-1.999437
-0.001081	-2.153883	-148.796418	
0.57749	-0.857393	-101.084899	-1.999437
-0.001081	-1.315299	-106.512938	
0.71833	-0.857393	-101.084899	-1.999437
-0.001081	-0.476064	-64.334145	
0.85916	-0.857393	-101.084899	-1.999437
-0.001081	-0.362883	-26.045135	
1.00000	-0.857393	-101.084899	-1.999437
-0.001081	-1.202822	-8.726313	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	14.381551	24.013328	1.974338
0.003568	2.122770	40.960661	
0.57749	14.381551	24.013328	1.974338
0.003568	1.294387	31.314699	
0.71833	14.381551	24.013328	1.974338
0.003568	0.466424	24.101549	
0.85916	14.381551	24.013328	1.974338
0.003568	0.358152	34.930998	
1.00000	14.381551	24.013328	1.974338
0.003568	1.177537	72.811831	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-4.794103	-141.798653	-1.952465
-0.002883	-2.101946	-174.616440	
0.57749	-4.794103	-141.798653	-1.952465
-0.002883	-1.283086	-115.617266	
0.71833	-4.794103	-141.798653	-1.952465
-0.002883	-0.465268	-59.789302	
0.85916	-4.794103	-141.798653	-1.952465
-0.002883	-0.367758	-22.122102	
1.00000	-4.794103	-141.798653	-1.952465
-0.002883	-1.193103	-9.650277	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3068
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	11.497981	1.401535	0.724571
0.000414	0.779073	1.990929	
0.57749	11.497981	1.401535	0.724571
0.000414	0.475578	1.407235	
0.71833	11.497981	1.401535	0.724571
0.000414	0.171833	0.837916	
0.85916	11.497981	1.401535	0.724571
0.000414	0.127071	0.330434	
1.00000	11.497981	1.401535	0.724571
0.000414	0.425666	7.868146	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-0.167343	-46.350977	-0.710517
-0.000390	-0.765832	-85.284382	
0.57749	-0.167343	-46.350977	-0.710517
-0.000390	-0.467699	-65.969977	
0.71833	-0.167343	-46.350977	-0.710517
-0.000390	-0.168971	-46.661939	
0.85916	-0.167343	-46.350977	-0.710517
-0.000390	-0.130584	-27.415059	
1.00000	-0.167343	-46.350977	-0.710517
-0.000390	-0.434398	-14.396243	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	13.715488	4.834766	1.158938
0.003793	1.243488	8.515918	
0.57749	13.715488	4.834766	1.158938
0.003793	0.757327	6.922681	
0.71833	13.715488	4.834766	1.158938
0.003793	0.273874	8.579571	
0.85916	13.715488	4.834766	1.158938
0.003793	0.210355	33.708198	
1.00000	13.715488	4.834766	1.158938
0.003793	0.676615	78.052149	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-1.710284	-120.133547	-1.112201
-0.002684	-1.196794	-131.873649	
0.57749	-1.710284	-120.133547	-1.112201
-0.002684	-0.729888	-61.955726	
0.71833	-1.710284	-120.133547	-1.112201
-0.002684	-0.265019	-36.471142	
0.85916	-1.710284	-120.133547	-1.112201
-0.002684	-0.227193	-12.137056	
1.00000	-1.710284	-120.133547	-1.112201
-0.002684	-0.710582	-7.709479	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	17.979720	7.537355	1.820861
0.004004	1.955544	12.418580	
0.57749	17.979720	7.537355	1.820861
0.004004	1.192102	9.635884	
0.71833	17.979720	7.537355	1.820861
0.004004	0.430937	9.801216	
0.85916	17.979720	7.537355	1.820861
0.004004	0.330854	30.867570	
1.00000	17.979720	7.537355	1.820861
0.004004	1.081009	74.296666	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-1.708266	-142.043667	-1.787700
-0.003039	-1.924544	-172.966707	
0.57749	-1.708266	-142.043667	-1.787700
-0.003039	-1.174508	-113.858288	
0.71833	-1.708266	-142.043667	-1.787700
-0.003039	-0.425343	-58.819563	
0.85916	-1.708266	-142.043667	-1.787700
-0.003039	-0.344718	-23.121590	
1.00000	-1.708266	-142.043667	-1.787700
-0.003039	-1.105848	-10.021440	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3069
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	14.815302	42.940681	1.873328
0.003204	2.013863	66.529380	
0.57749	14.815302	42.940681	1.873328
0.003204	1.228446	48.873524	
0.71833	14.815302	42.940681	1.873328
0.003204	0.444577	33.170116	
0.85916	14.815302	42.940681	1.873328
0.003204	0.338298	32.070438	
1.00000	14.815302	42.940681	1.873328
0.003204	1.114720	62.027102	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-6.995605	-125.144595	-1.850391
-0.002584	-1.992616	-155.943917	
0.57749	-6.995605	-125.144595	-1.850391
-0.002584	-1.216490	-103.848266	
0.71833	-6.995605	-125.144595	-1.850391
-0.002584	-0.440562	-54.363121	
0.85916	-6.995605	-125.144595	-1.850391
-0.002584	-0.346948	-19.589808	
1.00000	-6.995605	-125.144595	-1.850391
-0.002584	-1.130443	-14.326444	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	0.287517	89.693960	0.624213
0.000914	0.672390	123.650499	
0.57749	0.287517	89.693960	0.624213
0.000914	0.410460	86.076585	
0.71833	0.287517	89.693960	0.624213
0.000914	0.149283	48.604053	
0.85916	0.287517	89.693960	0.624213
0.000914	0.111958	11.411387	
1.00000	0.287517	89.693960	0.624213
0.000914	0.372726	2.140832	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-10.547308	-5.251200	-0.622092
-0.000889	-0.670356	-7.068377	
0.57749	-10.547308	-5.251200	-0.622092
-0.000889	-0.409687	-4.906824	
0.71833	-10.547308	-5.251200	-0.622092
-0.000889	-0.148776	-2.875028	
0.85916	-10.547308	-5.251200	-0.622092
-0.000889	-0.111265	-1.394083	
1.00000	-10.547308	-5.251200	-0.622092
-0.000889	-0.372553	-27.399118	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	3.532943	98.902855	0.973005
0.006106	1.043034	146.360019	
0.57749	3.532943	98.902855	0.973005
0.006106	0.634700	105.699122	
0.71833	3.532943	98.902855	0.973005
0.006106	0.230193	70.221887	
0.85916	3.532943	98.902855	0.973005
0.006106	0.186154	65.850150	
1.00000	3.532943	98.902855	0.973005
0.006106	0.580780	87.690332	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-14.438618	-92.980013	-0.944930
-0.004526	-1.015536	-173.394746	
0.57749	-14.438618	-92.980013	-0.944930
-0.004526	-0.619043	-35.871373	
0.71833	-14.438618	-92.980013	-0.944930
-0.004526	-0.226255	-4.688921	
0.85916	-14.438618	-92.980013	-0.944930
-0.004526	-0.199013	-1.757636	
1.00000	-14.438618	-92.980013	-0.944930
-0.004526	-0.604810	-26.803248	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3070
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	9.059716	85.105922	1.436183
0.004593	1.542710	121.597661	
0.57749	9.059716	85.105922	1.436183
0.004593	0.939894	86.329831	
0.71833	9.059716	85.105922	1.436183
0.004593	0.340856	54.395796	
0.85916	9.059716	85.105922	1.436183
0.004593	0.262414	44.927352	
1.00000	9.059716	85.105922	1.436183
0.004593	0.847636	74.947995	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-11.893168	-106.028174	-1.397266
-0.003448	-1.503782	-105.261799	
0.57749	-11.893168	-106.028174	-1.397266
-0.003448	-0.970765	-61.103545	
0.71833	-11.893168	-106.028174	-1.397266
-0.003448	-0.333757	-21.766566	
0.85916	-11.893168	-106.028174	-1.397266
-0.003448	-0.275782	-3.594297	
1.00000	-11.893168	-106.028174	-1.397266
-0.003448	-0.875105	-24.521656	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	15.399825	73.132134	1.825977
0.004283	1.962103	104.600512	
0.57749	15.399825	73.132134	1.825977
0.004283	1.196198	74.282860	
0.71833	15.399825	73.132134	1.825977
0.004283	0.433186	46.732662	
0.85916	15.399825	73.132134	1.825977
0.004283	0.331064	37.958849	
1.00000	15.399825	73.132134	1.825977
0.004283	1.082431	65.643806	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-10.033504	-119.653146	-1.791639
-0.003344	-1.929011	-143.224638	
0.57749	-10.033504	-119.653146	-1.791639
-0.003344	-1.177501	-93.461637	
0.71833	-10.033504	-119.653146	-1.791639
-0.003344	-0.427254	-47.547515	
0.85916	-10.033504	-119.653146	-1.791639
-0.003344	-0.343569	-19.519197	
1.00000	-10.033504	-119.653146	-1.791639
-0.003344	-1.106708	-27.470258	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	10.687179	53.609399	1.096933
0.006079	1.181297	82.837921	
0.57749	10.687179	53.609399	1.096933
0.006079	0.721355	61.183631	
0.71833	10.687179	53.609399	1.096933
0.006079	0.261320	42.007797	
0.85916	10.687179	53.609399	1.096933
0.006079	0.239289	53.127368	
1.00000	10.687179	53.609399	1.096933
0.006079	0.778898	76.943717	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.021328	-110.216944	-1.299371
-0.004810	-1.400414	-122.041423	
0.57749	-9.021328	-110.216944	-1.299371
-0.004810	-0.855589	-76.475234	
0.71833	-9.021328	-110.216944	-1.299371
-0.004810	-0.310604	-41.479672	
0.85916	-9.021328	-110.216944	-1.299371
-0.004810	-0.210470	-26.829120	
1.00000	-9.021328	-110.216944	-1.299371
-0.004810	-0.667691	-17.868589	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3071
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	17.979720	98.902855	2.007745
0.006106	2.160651	146.360019	
0.57749	17.979720	98.902855	2.007745
0.006106	1.318235	105.699122	
0.71833	17.979720	98.902855	2.007745
0.006106	0.476938	70.221887	
0.85916	17.979720	98.902855	2.007745
0.006106	0.358815	65.850150	
1.00000	17.979720	98.902855	2.007745
0.006106	1.199045	87.690332	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-14.438618	-142.043667	-1.999437
-0.004526	-2.153883	-174.616440	
0.57749	-14.438618	-142.043667	-1.999437
-0.004526	-1.315299	-115.617266	
0.71833	-14.438618	-142.043667	-1.999437
-0.004526	-0.476064	-71.308844	
0.85916	-14.438618	-142.043667	-1.999437
-0.004526	-0.367758	-38.151273	
1.00000	-14.438618	-142.043667	-1.999437
-0.004526	-1.202822	-27.470258	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	17.979720	98.902855	2.007745
0.006106	2.160651	146.360019	
0.57749	17.979720	98.902855	2.007745
0.006106	1.318235	105.699122	
0.71833	17.979720	98.902855	2.007745
0.006106	0.476938	70.221887	
0.85916	17.979720	98.902855	2.007745
0.006106	0.358815	65.850150	
1.00000	17.979720	98.902855	2.007745
0.006106	1.199045	87.690332	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-14.438618	-142.043667	-1.999437
-0.004810	-2.153883	-174.616440	
0.57749	-14.438618	-142.043667	-1.999437
-0.004810	-1.315299	-115.617266	
0.71833	-14.438618	-142.043667	-1.999437
-0.004810	-0.476064	-71.308844	
0.85916	-14.438618	-142.043667	-1.999437
-0.004810	-0.367758	-38.151273	
1.00000	-14.438618	-142.043667	-1.999437
-0.004810	-1.202822	-27.470258	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	17.979720	98.902855	2.007745
0.006106	2.160651	146.360019	
0.57749	17.979720	98.902855	2.007745
0.006106	1.318235	105.699122	
0.71833	17.979720	98.902855	2.007745
0.006106	0.476938	70.221887	
0.85916	17.979720	98.902855	2.007745
0.006106	0.358815	65.850150	
1.00000	17.979720	98.902855	2.007745
0.006106	1.199045	87.690332	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-14.438618	-142.043667	-1.999437
-0.004810	-2.153883	-174.616440	
0.57749	-14.438618	-142.043667	-1.999437
-0.004810	-1.315299	-115.617266	
0.71833	-14.438618	-142.043667	-1.999437
-0.004810	-0.476064	-71.308844	
0.85916	-14.438618	-142.043667	-1.999437
-0.004810	-0.367758	-38.151273	
1.00000	-14.438618	-142.043667	-1.999437
-0.004810	-1.202822	-27.470258	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3072
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 287 ========== LENGTH = 2.978190

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.228278	3.551161	0.538186
0.000581	0.321562	3.503320	
0.14087	2.228278	3.551161	0.538186
0.000581	0.095770	11.427185	
0.28175	2.228278	3.551161	0.538186
0.000581	0.164044	19.718165	
0.42262	2.228278	3.551161	0.538186
0.000581	0.449430	28.068909	
0.56349	2.228278	3.551161	0.538186
0.000581	0.734813	36.447857	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.620809	-20.095110	-0.680217
-0.000548	-0.406735	-1.173434	
0.14087	-1.620809	-20.095110	-0.680217
-0.000548	-0.121304	-2.431824	
0.28175	-1.620809	-20.095110	-0.680217
-0.000548	-0.130047	-3.705815	
0.42262	-1.620809	-20.095110	-0.680217
-0.000548	-0.355842	-5.045663	
0.56349	-1.620809	-20.095110	-0.680217
-0.000548	-0.581637	-6.528636	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.302564	6.607341	0.889589
0.001113	0.532331	8.466814	
0.14087	8.302564	6.607341	0.889589
0.001113	0.159184	22.855421	
0.28175	8.302564	6.607341	0.889589
0.001113	0.271938	38.115222	
0.42262	8.302564	6.607341	0.889589
0.001113	0.745434	54.131361	
0.56349	8.302564	6.607341	0.889589
0.001113	1.218933	70.435402	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.529152	-39.648258	-1.128567
-0.001116	-0.675398	-15.424295	
0.14087	-0.529152	-39.648258	-1.128567
-0.001116	-0.201677	-11.038654	
0.28175	-0.529152	-39.648258	-1.128567
-0.001116	-0.214679	-8.118777	
0.42262	-0.529152	-39.648258	-1.128567
-0.001116	-0.587908	-7.473128	
0.56349	-0.529152	-39.648258	-1.128567
-0.001116	-0.961135	-10.152791	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.846737	4.627470	1.061473
0.001206	0.634344	15.672646	
0.14087	8.846737	4.627470	1.061473
0.001206	0.188983	36.426795	
0.28175	8.846737	4.627470	1.061473
0.001206	0.312502	57.792016	
0.42262	8.846737	4.627470	1.061473
0.001206	0.857078	79.279037	
0.56349	8.846737	4.627470	1.061473
0.001206	1.401516	100.819648	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.266160	-51.520049	-1.297642
-0.001178	-0.776168	-7.924053	
0.14087	-0.266160	-51.520049	-1.297642
-0.001178	-0.231518	-6.237296	
0.28175	-0.266160	-51.520049	-1.297642
-0.001178	-0.256335	-5.805656	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3073
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.42262	-0.266160	-51.520049	-1.297642
-0.001178	-0.701695	-6.431048	
0.56349	-0.266160	-51.520049	-1.297642
-0.001178	-1.147032	-8.268993	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.588137	42.292078	1.087424
0.003527	0.660271	67.351809	
0.14087	7.588137	42.292078	1.087424
0.003527	0.206110	81.989259	
0.28175	7.588137	42.292078	1.087424
0.003527	0.307498	97.338465	
0.42262	7.588137	42.292078	1.087424
0.003527	0.842976	123.990489	
0.56349	7.588137	42.292078	1.087424
0.003527	1.378329	154.841816	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.009085	-74.294150	-1.275998
-0.004259	-0.770600	-8.977198	
0.14087	-5.009085	-74.294150	-1.275998
-0.004259	-0.236193	-9.960376	
0.28175	-5.009085	-74.294150	-1.275998
-0.004259	-0.262801	-13.612841	
0.42262	-5.009085	-74.294150	-1.275998
-0.004259	-0.719105	-18.894067	
0.56349	-5.009085	-74.294150	-1.275998
-0.004259	-1.175330	-34.877814	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.482218	1.186629	0.354361
0.000459	0.211850	5.002666	
0.14087	6.482218	1.186629	0.354361
0.000459	0.063142	13.662758	
0.28175	6.482218	1.186629	0.354361
0.000459	0.109065	22.689241	
0.42262	6.482218	1.186629	0.354361
0.000459	0.259033	31.715833	
0.56349	6.482218	1.186629	0.354361
0.000459	0.489555	40.986506	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.096942	-22.078138	-0.453410
-0.000459	-0.271340	-15.761839	
0.14087	-0.096942	-22.078138	-0.453410
-0.000459	-0.081088	-9.487937	
0.28175	-0.096942	-22.078138	-0.453410
-0.000459	-0.085498	-3.801989	
0.42262	-0.096942	-22.078138	-0.453410
-0.000459	-0.234185	-1.795400	
0.56349	-0.096942	-22.078138	-0.453410
-0.000459	-0.382857	-2.288791	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.919679	40.778186	0.635750
0.003829	0.394530	69.955198	
0.14087	6.919679	40.778186	0.635750
0.003829	0.130653	67.405924	
0.28175	6.919679	40.778186	0.635750
0.003829	0.170907	65.377197	
0.42262	6.919679	40.778186	0.635750
0.003829	0.468776	78.756606	
0.56349	6.919679	40.778186	0.635750
0.003829	0.766492	97.871898	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.165560	-46.485746	-0.709576
-0.004850	-0.434664	-8.715431	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3074
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.14087	-4.165560	-46.485746	-0.709576
-0.004850	-0.138311	-4.624544	
0.28175	-4.165560	-46.485746	-0.709576
-0.004850	-0.153510	-2.568635	
0.42262	-4.165560	-46.485746	-0.709576
-0.004850	-0.420290	-2.677442	
0.56349	-4.165560	-46.485746	-0.709576
-0.004850	-0.687017	-17.409652	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.838256	39.370387	0.986029
0.003904	0.602452	65.689289	
0.14087	8.838256	39.370387	0.986029
0.003904	0.191338	69.937406	

0.28175	8.838256	39.370387	0.986029
0.003904	0.280431	74.969031	
0.42262	8.838256	39.370387	0.986029
0.003904	0.769055	93.999739	
0.56349	8.838256	39.370387	0.986029
0.003904	1.257502	118.230183	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.812585	-58.676551	-1.164194
-0.004803	-0.705597	-10.205237	
0.14087	-3.812585	-58.676551	-1.164194
-0.004803	-0.218320	-5.131206	
0.28175	-3.812585	-58.676551	-1.164194
-0.004803	-0.238091	-4.660692	
0.42262	-3.812585	-58.676551	-1.164194
-0.004803	-0.651836	-6.083724	
0.56349	-3.812585	-58.676551	-1.164194
-0.004803	-1.065522	-20.454652	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.492445	47.052281	1.021486
0.003168	0.619372	57.147391	
0.14087	7.492445	47.052281	1.021486
0.003168	0.192471	70.727533	
0.28175	7.492445	47.052281	1.021486
0.003168	0.293082	84.916134	
0.42262	7.492445	47.052281	1.021486
0.003168	0.804007	108.312277	
0.56349	7.492445	47.052281	1.021486
0.003168	1.314703	135.129451	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.888527	-64.554204	-1.217199
-0.003768	-0.734179	-12.002078	
0.14087	-5.888527	-64.554204	-1.217199
-0.003768	-0.224151	-16.410372	
0.28175	-5.888527	-64.554204	-1.217199
-0.003768	-0.246727	-24.561263	
0.42262	-5.888527	-64.554204	-1.217199
-0.003768	-0.675113	-34.176457	
0.56349	-5.888527	-64.554204	-1.217199
-0.003768	-1.103556	-52.483373	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.129578	43.821391	0.390000
0.000840	0.233519	1.563682	
0.14087	0.129578	43.821391	0.390000
0.000840	0.060980	3.023735	
0.28175	0.129578	43.821391	0.390000
0.000840	0.109689	4.661192	
0.42262	0.129578	43.821391	0.390000
0.000840	0.300968	6.344767	
0.56349	0.129578	43.821391	0.390000
0.000840	0.492232	8.040759	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3075
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.889438	-4.044148	-0.455881
-0.000863	-0.272837	-12.456783	
0.14087	-5.889438	-4.044148	-0.455881
-0.000863	-0.081544	-30.478934	
0.28175	-5.889438	-4.044148	-0.455881
-0.000863	-0.093747	-48.660905	
0.42262	-5.889438	-4.044148	-0.455881
-0.000863	-0.257371	-66.954877	
0.56349	-5.889438	-4.044148	-0.455881
-0.000863	-0.420995	-85.317539	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.456861	98.261658	0.624405
0.004885	0.391347	77.185188	
0.14087	0.456861	98.261658	0.624405
0.004885	0.132862	59.874256	
0.28175	0.456861	98.261658	0.624405
0.004885	0.162541	44.457829	
0.42262	0.456861	98.261658	0.624405
0.004885	0.445277	47.920626	
0.56349	0.456861	98.261658	0.624405
0.004885	0.727982	58.336470	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.688187	-25.869711	-0.673808
-0.006138	-0.415417	-14.175997	
0.14087	-12.688187	-25.869711	-0.673808
-0.006138	-0.134476	-31.059556	
0.28175	-12.688187	-25.869711	-0.673808
-0.006138	-0.150363	-50.383416	
0.42262	-12.688187	-25.869711	-0.673808
-0.006138	-0.412367	-71.907757	
0.56349	-12.688187	-25.869711	-0.673808
-0.006138	-0.674335	-110.080968	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.977693	74.956959	0.835690
0.003920	0.511968	59.208741	
0.14087	3.977693	74.956959	0.835690
0.003920	0.163735	57.327583	
0.28175	3.977693	74.956959	0.835690
0.003920	0.227005	55.709836	
0.42262	3.977693	74.956959	0.835690
0.003920	0.622762	66.924310	
0.56349	3.977693	74.956959	0.835690
0.003920	1.018358	82.901259	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.245046	-38.789559	-0.942874
-0.004791	-0.572619	-12.764839	
0.14087	-9.245046	-38.789559	-0.942874
-0.004791	-0.178052	-28.280634	
0.28175	-9.245046	-38.789559	-0.942874
-0.004791	-0.201445	-45.688177	
0.42262	-9.245046	-38.789559	-0.942874
-0.004791	-0.552100	-63.974583	
0.56349	-9.245046	-38.789559	-0.942874
-0.004791	-0.902711	-93.429120	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.593094	64.045780	1.022799
0.003618	0.621716	51.274396	
0.14087	7.593094	64.045780	1.022799
0.003618	0.194537	55.543605	
0.28175	7.593094	64.045780	1.022799
0.003618	0.289233	60.403318	
0.42262	7.593094	64.045780	1.022799
0.003618	0.793382	75.977675	
0.56349	7.593094	64.045780	1.022799
0.003618	1.297403	95.536684	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3076
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.725892	-47.335351	-1.201295
-0.004336	-0.725746	-17.886364	
0.14087	-7.725892	-47.335351	-1.201295
-0.004336	-0.222563	-28.058948	
0.28175	-7.725892	-47.335351	-1.201295
-0.004336	-0.246587	-40.837128	
0.42262	-7.725892	-47.335351	-1.201295
-0.004336	-0.675737	-55.938591	
0.56349	-7.725892	-47.335351	-1.201295
-0.004336	-1.104855	-81.159199	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.528330	4.529811	0.980538
0.000587	0.584959	6.014297	
0.14087	3.528330	4.529811	0.980538
0.000587	0.173920	21.681271	
0.28175	3.528330	4.529811	0.980538
0.000587	0.243670	37.668528	
0.42262	3.528330	4.529811	0.980538
0.000587	0.666230	53.716274	
0.56349	3.528330	4.529811	0.980538
0.000587	1.088646	69.822762	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.354128	-38.610174	-1.007164
-0.000528	-0.601481	-1.486525	
0.14087	-1.354128	-38.610174	-1.007164
-0.000528	-0.178191	-2.879575	
0.28175	-1.354128	-38.610174	-1.007164
-0.000528	-0.236051	-4.569464	
0.42262	-1.354128	-38.610174	-1.007164
-0.000528	-0.647242	-6.316566	
0.56349	-1.354128	-38.610174	-1.007164
-0.000528	-1.059244	-8.163580	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.199749	7.357007	1.668548
0.001025	0.995178	11.550607	
0.14087	14.199749	7.357007	1.668548
0.001025	0.295636	39.981318	
0.28175	14.199749	7.357007	1.668548
0.001025	0.407066	70.504790	
0.42262	14.199749	7.357007	1.668548
0.001025	1.115710	102.273794	
0.56349	14.199749	7.357007	1.668548
0.001025	1.823784	135.359149	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.657077	-79.741151	-1.687830
-0.001001	-1.308822	-14.737216	
0.14087	-0.657077	-79.741151	-1.687830
-0.001001	-0.299305	-10.463886	
0.28175	-0.657077	-79.741151	-1.687830
-0.001001	-0.402431	-9.269062	
0.42262	-0.657077	-79.741151	-1.687830
-0.001001	-1.101923	-9.330071	
0.56349	-0.657077	-79.741151	-1.687830
-0.001001	-1.802420	-12.282284	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	15.089457	6.705895	1.975975
0.001107	1.177401	29.096495	
0.14087	15.089457	6.705895	1.975975
0.001107	0.349192	68.106074	
0.28175	15.089457	6.705895	1.975975
0.001107	0.475645	108.704710	
0.42262	15.089457	6.705895	1.975975
0.001107	1.304088	149.806745	
0.56349	15.089457	6.705895	1.975975
0.001107	2.131883	191.565133	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3077
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.722223	-99.823729	-1.972648
-0.001069	-1.178060	-8.726628	
0.14087	-0.722223	-99.823729	-1.972648
-0.001069	-0.348715	-12.732731	
0.28175	-0.722223	-99.823729	-1.972648
-0.001069	-0.476914	-7.318905	
0.42262	-0.722223	-99.823729	-1.972648
-0.001069	-1.305382	-8.451284	
0.56349	-0.722223	-99.823729	-1.972648
-0.001069	-2.134400	-11.171627	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.905248	46.686931	1.952052
0.002700	1.174898	72.879640	
0.14087	12.905248	46.686931	1.952052
0.002700	0.357409	104.656997	
0.28175	12.905248	46.686931	1.952052
0.002700	0.466270	138.397873	
0.42262	12.905248	46.686931	1.952052
0.002700	1.275828	180.595421	
0.56349	12.905248	46.686931	1.952052
0.002700	2.086487	227.639299	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.412133	-114.124787	-1.931787
-0.003396	-1.160134	-9.664768	
0.14087	-6.412133	-114.124787	-1.931787
-0.003396	-0.349071	-13.279792	
0.28175	-6.412133	-114.124787	-1.931787
-0.003396	-0.469452	-20.360398	
0.42262	-6.412133	-114.124787	-1.931787
-0.003396	-1.286531	-28.847224	
0.56349	-6.412133	-114.124787	-1.931787
-0.003396	-2.105581	-47.607688	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.366532	1.392719	0.711925
0.000399	0.423637	7.884938	
0.14087	11.366532	1.392719	0.711925
0.000399	0.124920	23.535567	
0.28175	11.366532	1.392719	0.711925
0.000399	0.167988	40.463496	
0.42262	11.366532	1.392719	0.711925
0.000399	0.462888	58.622765	
0.56349	11.366532	1.392719	0.711925
0.000399	0.757000	77.826151	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.108606	-45.951714	-0.700849
-0.000403	-0.418964	-14.395273	
0.14087	-0.108606	-45.951714	-0.700849
-0.000403	-0.124158	-8.317535	
0.28175	-0.108606	-45.951714	-0.700849
-0.000403	-0.172251	-4.027153	
0.42262	-0.108606	-45.951714	-0.700849
-0.000403	-0.470733	-2.154621	
0.56349	-0.108606	-45.951714	-0.700849
-0.000403	-0.768998	-2.675322	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.637074	38.931649	1.140674
0.002982	0.696437	78.132183	
0.14087	11.637074	38.931649	1.140674
0.002982	0.220321	89.469747	
0.28175	11.637074	38.931649	1.140674
0.002982	0.263973	101.682931	
0.42262	11.637074	38.931649	1.140674
0.002982	0.721824	126.434874	
0.56349	11.637074	38.931649	1.140674
0.002982	1.181588	158.265645	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3078
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.255377	-78.519725	-1.094783
-0.004065	-0.663504	-7.744644	
0.14087	-4.255377	-78.519725	-1.094783
-0.004065	-0.204361	-9.972962	
0.28175	-4.255377	-78.519725	-1.094783
-0.004065	-0.274020	-2.703149	
0.42262	-4.255377	-78.519725	-1.094783
-0.004065	-0.750089	-3.065048	
0.56349	-4.255377	-78.519725	-1.094783
-0.004065	-1.228282	-18.297179	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.011129	38.355883	1.792959
0.003142	1.083707	74.377234	
0.14087	16.011129	38.355883	1.792959
0.003142	0.333960	96.978025	
0.28175	16.011129	38.355883	1.792959
0.003142	0.425460	121.617819	
0.42262	16.011129	38.355883	1.792959
0.003142	1.164193	157.901978	
0.56349	16.011129	38.355883	1.792959
0.003142	1.904458	200.609826	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.911562	-104.237432	-1.763593
-0.004077	-1.062251	-10.053338	
0.14087	-3.911562	-104.237432	-1.763593
-0.004077	-0.321844	-5.674833	
0.28175	-3.911562	-104.237432	-1.763593
-0.004077	-0.431275	-5.494934	
0.42262	-3.911562	-104.237432	-1.763593
-0.004077	-1.180942	-7.292858	
0.56349	-3.911562	-104.237432	-1.763593
-0.004077	-1.933668	-22.388660	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.546833	62.140327	1.858026
0.002524	1.116907	62.085308	
0.14087	13.546833	62.140327	1.858026
0.002524	0.339450	90.973146	
0.28175	13.546833	62.140327	1.858026
0.002524	0.442397	121.860595	
0.42262	13.546833	62.140327	1.858026
0.002524	1.211859	159.998343	
0.56349	13.546833	62.140327	1.858026
0.002524	1.982128	202.166264	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.318618	-102.102355	-1.835422
-0.003106	-1.101799	-14.325650	
0.14087	-8.318618	-102.102355	-1.835422
-0.003106	-0.331329	-26.413947	
0.28175	-8.318618	-102.102355	-1.835422
-0.003106	-0.448481	-40.055826	
0.42262	-8.318618	-102.102355	-1.835422
-0.003106	-1.224193	-59.176854	
0.56349	-8.318618	-102.102355	-1.835422
-0.003106	-2.004116	-84.592859	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.191117	90.744175	0.635329
0.000860	0.379628	2.135720	
0.14087	0.191117	90.744175	0.635329
0.000860	0.113618	4.160088	
0.28175	0.191117	90.744175	0.635329
0.000860	0.151346	6.282979	
0.42262	0.191117	90.744175	0.635329
0.000860	0.416023	8.429497	
0.56349	0.191117	90.744175	0.635329
0.000860	0.680523	10.606567	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3079
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.568246	-5.231003	-0.630745
-0.000898	-0.377695	-27.363436	
0.14087	-10.568246	-5.231003	-0.630745
-0.000898	-0.113158	-65.180179	
0.28175	-10.568246	-5.231003	-0.630745
-0.000898	-0.151753	-103.047153	
0.42262	-10.568246	-5.231003	-0.630745
-0.000898	-0.417732	-141.022142	
0.56349	-10.568246	-5.231003	-0.630745
-0.000898	-0.684472	-179.097593	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.725509	148.450635	0.983526
0.004468	0.612155	87.755850	
0.14087	0.725509	148.450635	0.983526
0.004468	0.201432	73.227628	
0.28175	0.725509	148.450635	0.983526
0.004468	0.229546	59.669632	
0.42262	0.725509	148.450635	0.983526
0.004468	0.624816	63.401046	
0.56349	0.725509	148.450635	0.983526
0.004468	1.023519	76.537791	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.156440	-35.144433	-0.949971
-0.006008	-0.581985	-26.812343	
0.14087	-18.156440	-35.144433	-0.949971
-0.006008	-0.185097	-63.002549	
0.28175	-18.156440	-35.144433	-0.949971
-0.006008	-0.233011	-101.487671	
0.42262	-18.156440	-35.144433	-0.949971
-0.006008	-0.642194	-142.370865	
0.56349	-18.156440	-35.144433	-0.949971
-0.006008	-1.055036	-203.061601	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.904253	121.110347	1.435510
0.003687	0.873801	75.016016	
0.14087	6.904253	121.110347	1.435510
0.003687	0.274090	81.227650	
0.28175	6.904253	121.110347	1.435510
0.003687	0.335744	87.759350	
0.42262	6.904253	121.110347	1.435510
0.003687	0.918306	106.755376	
0.56349	6.904253	121.110347	1.435510
0.003687	1.502949	132.406283	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.549738	-63.694010	-1.393065
-0.004812	-0.842686	-24.519772	
0.14087	-14.549738	-63.694010	-1.393065
-0.004812	-0.258797	-56.904671	
0.28175	-14.549738	-63.694010	-1.393065
-0.004812	-0.343301	-91.056476	
0.42262	-14.549738	-63.694010	-1.393065
-0.004812	-0.942686	-126.872603	
0.56349	-14.549738	-63.694010	-1.393065
-0.004812	-1.544987	-176.617235	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.527977	102.981273	1.815449
0.003416	1.096931	65.708553	
0.14087	13.527977	102.981273	1.815449
0.003416	0.337653	81.580439	
0.28175	13.527977	102.981273	1.815449
0.003416	0.426730	99.060341	
0.42262	13.527977	102.981273	1.815449
0.003416	1.175154	127.458131	
0.56349	13.527977	102.981273	1.815449
0.003416	1.922765	161.908335	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3080
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.161818	-84.428082	-1.781359
-0.004356	-1.073122	-27.468800	
0.14087	-12.161818	-84.428082	-1.781359
-0.004356	-0.325683	-51.771210	
0.28175	-12.161818	-84.428082	-1.781359
-0.004356	-0.435700	-79.206855	
0.42262	-12.161818	-84.428082	-1.781359
-0.004356	-1.194721	-108.977079	
0.56349	-12.161818	-84.428082	-1.781359
-0.004356	-1.956664	-151.242439	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.846737	98.261658	1.087424
0.004885	0.660271	77.185188	
0.14087	8.846737	98.261658	1.087424
0.004885	0.206110	81.986259	
0.28175	8.846737	98.261658	1.087424
0.004885	0.312502	97.338465	
0.42262	8.846737	98.261658	1.087424
0.004885	0.857078	123.399389	
0.56349	8.846737	98.261658	1.087424
0.004885	1.401516	154.841816	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.688187	-74.294150	-1.297642
-0.006138	-0.776168	-17.886364	
0.14087	-12.688187	-74.294150	-1.297642
-0.006138	-0.236193	-31.059556	
0.28175	-12.688187	-74.294150	-1.297642
-0.006138	-0.262826	-50.383416	
0.42262	-12.688187	-74.294150	-1.297642
-0.006138	-0.719105	-71.907757	
0.56349	-12.688187	-74.294150	-1.297642
-0.006138	-1.175330	-110.080968	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.011129	148.450635	1.975975
0.004468	1.177401	87.755850	
0.14087	16.011129	148.450635	1.975975
0.004468	0.357409	104.656997	
0.28175	16.011129	148.450635	1.975975
0.004468	0.475645	138.397873	
0.42262	16.011129	148.450635	1.975975
0.004468	1.304088	180.595421	
0.56349	16.011129	148.450635	1.975975
0.004468	2.131883	227.639299	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-18.156440	-114.124787	-1.972648
-0.006008	-1.178060	-27.468800	
0.14087	-18.156440	-114.124787	-1.972648
-0.006008	-0.349071	-65.180179	
0.28175	-18.156440	-114.124787	-1.972648
-0.006008	-0.476914	-103.047153	
0.42262	-18.156440	-114.124787	-1.972648
-0.006008	-1.305382	-142.370865	
0.56349	-18.156440	-114.124787	-1.972648
-0.006008	-2.134400	-203.061601	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	16.011129	148.450635	1.975975
0.004885	1.177401	87.755850	
0.14087	16.011129	148.450635	1.975975
0.004885	0.357409	104.656997	
0.28175	16.011129	148.450635	1.975975
0.004885	0.475645	138.397873	
0.42262	16.011129	148.450635	1.975975
0.004885	1.304088	180.595421	
0.56349	16.011129	148.450635	1.975975
0.004885	2.131883	227.639299	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3081
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

```
REL DIST          P          V2          V3
        T         M2         M3
0.00000  -18.156440 -114.124787  -1.972648
-0.006138  -1.178060  -27.468800
0.14087  -18.156440 -114.124787  -1.972648
-0.006138  -0.349071  -65.180179
0.28175  -18.156440 -114.124787  -1.972648
-0.006138  -0.476914 -103.047153
0.42262  -18.156440 -114.124787  -1.972648
-0.006138  -1.305382 -142.370865
0.56349  -18.156440 -114.124787  -1.972648
-0.006138  -2.134400 -203.061601

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000  16.011129  148.450635   1.975975
 0.004885   1.177401   87.755850
0.14087  16.011129  148.450635   1.975975
 0.004885   0.357409  104.656997
0.28175  16.011129  148.450635   1.975975
 0.004885   0.475645  138.397873
0.42262  16.011129  148.450635   1.975975
 0.004885   1.304088  180.595421
0.56349  16.011129  148.450635   1.975975
 0.004885   2.131883  227.639299

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000  -18.156440 -114.124787  -1.972648
-0.006138  -1.178060  -27.468800
0.14087  -18.156440 -114.124787  -1.972648
-0.006138  -0.349071  -65.180179
0.28175  -18.156440 -114.124787  -1.972648
-0.006138  -0.476914 -103.047153
0.42262  -18.156440 -114.124787  -1.972648
-0.006138  -1.305382 -142.370865
0.56349  -18.156440 -114.124787  -1.972648
-0.006138  -2.134400 -203.061601

ELEM      288 ================== LENGTH
=    2.977394

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   2.816692   2.369892   0.561876
0.000976   0.604851   3.511023
0.57747   2.816692   2.369892   0.561876
0.000976   0.369230   3.232816
0.71831   2.816692   2.369892   0.561876
0.000976   0.133598   3.307206
0.85916   2.816692   2.369892   0.561876
0.000976   0.127814   4.029956
1.00000   2.816692   2.369892   0.561876
0.000976   0.425835   7.905115

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -0.859456  -20.137206  -0.710583
-0.000520  -0.766099  -26.467480
0.57747  -0.859456  -20.137206  -0.710583
-0.000520  -0.468124  -18.035516
0.71831  -0.859456  -20.137206  -0.710583
-0.000520  -0.170148  -12.813909
0.85916  -0.859456  -20.137206  -0.710583
-0.000520  -0.102034  -10.575801
1.00000  -0.859456  -20.137206  -0.710583
-0.000520  -0.337642   -9.117272

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   6.731865   3.724807   0.927817
0.001831   0.999049   5.321604
0.57747   6.731865   3.724807   0.927817
0.001831   0.609970   3.859126
0.71831   6.731865   3.724807   0.927817
0.001831   0.220882   2.576755
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3082

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
0.85916   6.731865   3.724807   0.927817
0.001831   0.218361   3.788690
1.00000   6.731865   3.724807   0.927817
0.001831   0.725550  13.423000

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -0.511596  -43.135653  -1.209296
-0.000874  -1.303101  -70.882171
0.57747  -0.511596  -43.135653  -1.209296
-0.000874  -0.796178  -53.599964
0.71831  -0.511596  -43.135653  -1.209296
-0.000874  -0.289209  -40.584893
0.85916  -0.511596  -43.135653  -1.209296
-0.000874  -0.168481  -33.506357
1.00000  -0.511596  -43.135653  -1.209296
-0.000874  -0.557290  -27.267461

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   7.369101   18.681271   1.009841
 0.001602   1.088417   43.603104
0.57747   7.369101   18.681271   1.009841
 0.001602   0.664942   35.835306
0.71831   7.369101   18.681271   1.009841
 0.001602   0.241439   28.360325
0.85916   7.369101   18.681271   1.009841
 0.001602   0.256650   22.966544
1.00000   7.369101   18.681271   1.009841
 0.001602   0.855966   27.491163

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -1.548302  -55.681774  -1.428508
-0.000628  -1.540211  -86.245439
0.57747  -1.548302  -55.681774  -1.428508
-0.000628  -0.941172  -43.396644
0.71831  -1.548302  -55.681774  -1.428508
-0.000628  -0.342028  -43.934249
0.85916  -1.548302  -55.681774  -1.428508
-0.000628  -0.181908  -29.559578
1.00000  -1.548302  -55.681774  -1.428508
-0.000628  -0.605485  -18.274018

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   9.349993   28.440743   1.012023
 0.003809   1.089855   57.487867
0.57747   9.349993   28.440743   1.012023
 0.003809   0.665466   46.591000
0.71831   9.349993   28.440743   1.012023
 0.003809   0.240988   39.694311
0.85916   9.349993   28.440743   1.012023
 0.003809   0.264627   50.997483
1.00000   9.349993   28.440743   1.012023
 0.003809   0.850858   79.946732

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -3.491199 -112.099418  -1.398126
-0.004085  -1.498077 -125.135199
0.57747  -3.491199 -112.099418  -1.398126
-0.004085  -0.915435  -78.656257
0.71831  -3.491199 -112.099418  -1.398126
-0.004085  -0.332711  -43.364236
0.85916  -3.491199 -112.099418  -1.398126
-0.004085  -0.189867  -25.170105
1.00000  -3.491199 -112.099418  -1.398126
-0.004085  -0.608160  -19.113381

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   4.154892   2.139295   0.355942
0.000718   0.383620   3.446598
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3083

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
0.57747   4.154892   2.139295   0.355942
0.000718   0.234355   2.723076
0.71831   4.154892   2.139295   0.355942
0.000718   0.085091   2.400086
0.85916   4.154892   2.139295   0.355942
0.000718   0.093407   2.616204
1.00000   4.154892   2.139295   0.355942
0.000718   0.310928   6.486381

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -0.100277  -25.439687  -0.518641
-0.000104  -0.559039  -48.787752
0.57747  -0.100277  -25.439687  -0.518641
-0.000104  -0.341555  -38.944201
0.71831  -0.100277  -25.439687  -0.518641
-0.000104  -0.123990  -29.726207
0.85916  -0.100277  -25.439687  -0.518641
-0.000104  -0.064078  -23.224139
1.00000  -0.100277  -25.439687  -0.518641
-0.000104  -0.213441  -17.748274

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   7.579963   22.167747   0.535296
 0.003721   0.577569   52.159628
0.57747   7.579963   22.167747   0.535296
 0.003721   0.353094   44.102533
0.71831   7.579963   22.167747   0.535296
 0.003721   0.128538   41.010284
0.85916   7.579963   22.167747   0.535296
 0.003721   0.168361   58.546485
1.00000   7.579963   22.167747   0.535296
 0.003721   0.519758   81.057611

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -2.138337  -94.370922  -0.838368
-0.004317  -0.891618  -99.276683
0.57747  -2.138337  -94.370922  -0.838368
-0.004317  -0.545061  -61.076549
0.71831  -2.138337  -94.370922  -0.838368
-0.004317  -0.198408  -33.789508
0.85916  -2.138337  -94.370922  -0.838368
-0.004317  -0.104864  -20.392733
1.00000  -2.138337  -94.370922  -0.838368
-0.004317  -0.320949  -11.214590

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   9.502697   21.470395   0.912538
 0.004116   0.983616   48.798340
0.57747   9.502697   21.470395   0.912538
 0.004116   0.600945   40.919909
0.71831   9.502697   21.470395   0.912538
 0.004116   0.218190   37.654839
0.85916   9.502697   21.470395   0.912538
 0.004116   0.202178   52.393607
1.00000   9.502697   21.470395   0.912538
 0.004116   0.802507   78.034143

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -2.042775 -102.469416  -1.312812
-0.004269  -1.404208 -113.515242
0.57747  -2.042775 -102.469416  -1.312812
-0.004269  -0.858212  -71.139630
0.71831  -2.042775 -102.469416  -1.312812
-0.004269  -0.312176  -41.348202
0.85916  -2.042775 -102.469416  -1.312812
-0.004269  -0.172686  -28.557614
1.00000  -2.042775 -102.469416  -1.312812
-0.004269  -0.547625  -18.920300
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3084

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   8.779357   38.511013   0.946962
 0.003252   1.020393   71.261274
0.57747   8.779357   38.511013   0.946962
 0.003252   0.623287   56.007369
0.71831   8.779357   38.511013   0.946962
 0.003252   0.226109   44.122834
0.85916   8.779357   38.511013   0.946962
 0.003252   0.250161   46.246429
1.00000   8.779357   38.511013   0.946962
 0.003252   0.807875   67.687590

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -4.666608 -101.910961  -1.329983
-0.003673  -1.426057 -120.448503
0.57747  -4.666608 -101.910961  -1.329983
-0.003673  -0.871302  -78.183917
0.71831  -4.666608 -101.910961  -1.329983
-0.003673  -0.316408  -45.290284
0.85916  -4.666608 -101.910961  -1.329983
-0.003673  -0.176250  -24.184388
1.00000  -4.666608 -101.910961  -1.329983
-0.003673  -0.568400  -20.784935

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   0.974040   44.135342   0.366135
 0.000457   0.393958   62.684313
0.57747   0.974040   44.135342   0.366135
 0.000457   0.240420   44.264871
0.71831   0.974040   44.135342   0.366135
 0.000457   0.086880   25.875977
0.85916   0.974040   44.135342   0.366135
 0.000457   0.080798   7.929529
1.00000   0.974040   44.135342   0.366135
 0.000457   0.267426   1.767292

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -5.482008  -5.828454  -0.444976
-0.001221  -0.478982  -18.608436
0.57747  -5.482008  -5.828454  -0.444976
-0.001221  -0.292389  -16.285370
0.71831  -5.482008  -5.828454  -0.444976
-0.001221  -0.105784  -14.328484
0.85916  -5.482008  -5.828454  -0.444976
-0.001221  -0.066672  -12.542199
1.00000  -5.482008  -5.828454  -0.444976
-0.001221  -0.220196  -13.029610

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   5.155357   61.423688   0.565502
 0.004306   0.608571  103.198717
0.57747   5.155357   61.423688   0.565502
 0.004306   0.371380   79.001483
0.71831   5.155357   61.423688   0.565502
 0.004306   0.134212   60.345688
0.85916   5.155357   61.423688   0.565502
 0.004306   0.149245   66.963893
1.00000   5.155357   61.423688   0.565502
 0.004306   0.444345   84.214690

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -7.860987  -90.511172  -0.704713
-0.006555  -0.743954  -79.915457
0.57747  -7.860987  -90.511172  -0.704713
-0.006555  -0.454538  -42.360073
0.71831  -7.860987  -90.511172  -0.704713
-0.006555  -0.165129  -18.709179
0.85916  -7.860987  -90.511172  -0.704713
-0.006555  -0.113969  -11.452521
1.00000  -7.860987  -90.511172  -0.704713
-0.006555  -0.340796  -16.288506
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3085

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   6.658181   60.450854   0.715258
 0.003379   0.770944  103.440331
0.57747   6.658181   60.450854   0.715258
 0.003379   0.471003   79.326697
0.71831   6.658181   60.450854   0.715258
 0.003379   0.170991   59.591014
0.85916   6.658181   60.450854   0.715258
 0.003379   0.200491   57.890611
1.00000   6.658181   60.450854   0.715258
 0.003379   0.631921   68.773214

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -7.191809  -89.645459  -1.029121
-0.004792  -1.098585 -100.070878
0.57747  -7.191809  -89.645459  -1.029121
-0.004792  -0.671214  -62.907599
0.71831  -7.191809  -89.645459  -1.029121
-0.004792  -0.243781  -35.326933
0.85916  -7.191809  -89.645459  -1.029121
-0.004792  -0.136810  -19.022542
1.00000  -7.191809  -89.645459  -1.029121
-0.004792  -0.429346  -15.106249

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   8.363883   51.796307   0.938628
 0.003443   1.011358   88.672594
0.57747   8.363883   51.796307   0.938628
 0.003443   0.617741   67.900916
0.71831   8.363883   51.796307   0.938628
 0.003443   0.224070   50.730472
0.85916   8.363883   51.796307   0.938628
 0.003443   0.230834   48.546801
1.00000   8.363883   51.796307   0.938628
 0.003443   0.796486   60.404090

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -6.116837  -90.645792  -1.307850
-0.004230  -1.400821 -111.256036
0.57747  -6.116837  -90.645792  -1.307850
-0.004230  -0.855839  -73.924421
0.71831  -6.116837  -90.645792  -1.307850
-0.004230  -0.310735  -46.677763
0.85916  -6.116837  -90.645792  -1.307850
-0.004230  -0.175665  -30.389594
1.00000  -6.116837  -90.645792  -1.307850
-0.004230  -0.563517  -24.558508

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   4.718448   3.319732   0.997049
 0.001027   1.073804   5.832562
0.57747   4.718448   3.319732   0.997049
 0.001027   0.654992   4.753748
0.71831   4.718448   3.319732   0.997049
 0.001027   0.237122   3.897009
0.85916   4.718448   3.319732   0.997049
 0.001027   0.188634   3.627729
1.00000   4.718448   3.319732   0.997049
 0.001027   0.630765  10.670248

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -0.785898  -31.255711  -1.051912
-0.000499  -1.133781  -46.918666
0.57747  -0.785898  -31.255711  -1.051912
-0.000499  -0.692664  -33.929643
0.71831  -0.785898  -31.255711  -1.051912
-0.000499  -0.251536  -22.158303
0.85916  -0.785898  -31.255711  -1.051912
-0.000499  -0.179509  -12.145803
1.00000  -0.785898  -31.255711  -1.051912
-0.000499  -0.597198   -8.570284
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3086

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662  11.264854   4.606717   1.639072
 0.001817   1.765918   6.707087
0.57747  11.264854   4.606717   1.639072
 0.001817   1.077744   4.928008
0.71831  11.264854   4.606717   1.639072
 0.001817   0.390774   3.677367
0.85916  11.264854   4.606717   1.639072
 0.001817   0.332024   3.589184
1.00000  11.264854   4.606717   1.639072
 0.001817   1.106292  16.323869

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -0.660919  -68.710460  -1.842631
-0.000768  -1.984438 -119.944108
0.57747  -0.660919  -68.710460  -1.842631
-0.000768  -1.211731  -91.416339
0.71831  -0.660919  -68.710460  -1.842631
-0.000768  -0.438555  -64.370154
0.85916  -0.660919  -68.710460  -1.842631
-0.000768  -0.294080  -39.813246
1.00000  -0.660919  -68.710460  -1.842631
-0.000768  -0.980896  -25.624598

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662  11.899069   17.384413   1.891775
 0.001609   2.038665   38.930401
0.57747  11.899069   17.384413   1.891775
 0.001609   1.244203   32.211136
0.71831  11.899069   17.384413   1.891775
 0.001609   0.451446   27.320754
0.85916  11.899069   17.384413   1.891775
 0.001609   0.393889   24.593683
1.00000  11.899069   17.384413   1.891775
 0.001609   1.315395   37.612024

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -1.635681  -85.204171  -2.193396
-0.000602  -2.363037 -130.755388
0.57747  -1.635681  -85.204171  -2.193396
-0.000602  -1.442757  -95.673760
0.71831  -1.635681  -85.204171  -2.193396
-0.000602  -0.522335  -63.210253
0.85916  -1.635681  -85.204171  -2.193396
-0.000602  -0.338067  -34.072471
1.00000  -1.635681  -85.204171  -2.193396
-0.000602  -1.130921  -18.004918

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662  12.616923   31.894989   1.833270
 0.003155   1.972921   63.979498
0.57747  12.616923   31.894989   1.833270
 0.003155   1.203281   51.752787
0.71831  12.616923   31.894989   1.833270
 0.003155   0.436168   44.714493
0.85916  12.616923   31.894989   1.833270
 0.003155   0.392962   53.195340
1.00000  12.616923   31.894989   1.833270
 0.003155   1.285794   82.666011

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -4.606035 -126.981126  -2.126949
-0.003370  -2.284163 -155.621807
0.57747  -4.606035 -126.981126  -2.126949
-0.003370  -1.394176 -103.440034
0.71831  -4.606035 -126.981126  -2.126949
-0.003370  -0.505250  -59.089853
0.85916  -4.606035 -126.981126  -2.126949
-0.003370  -0.335392  -28.862461
1.00000  -4.606035 -126.981126  -2.126949
-0.003370  -1.101165  -18.460948
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3087

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   6.659337   2.318178   0.656452
 0.000653   0.707726   3.249130
0.57747   6.659337   2.318178   0.656452
 0.000653   0.432355   2.324397
0.71831   6.659337   2.318178   0.656452
 0.000653   0.157282   1.489552
0.85916   6.659337   2.318178   0.656452
 0.000653   0.102532   2.204101
1.00000   6.659337   2.318178   0.656452
 0.000653   0.497862   8.111148

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -0.115341  -40.222325  -0.828881
-7.87E-05  -0.892159  -73.574542
0.57747  -0.115341  -40.222325  -0.828881
-7.87E-05  -0.544384  -56.934803
0.71831  -0.115341  -40.222325  -0.828881
-7.87E-05  -0.196527  -40.615908
0.85916  -0.115341  -40.222325  -0.828881
-7.87E-05  -0.116673  -26.392665
1.00000  -0.115341  -40.222325  -0.828881
-7.87E-05  -0.391914  -16.085840

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662   9.782952   19.155655   1.021645
 0.003001   1.099160   45.495458
0.57747   9.782952   19.155655   1.021645
 0.003001   0.670212   38.917010
0.71831   9.782952   19.155655   1.021645
 0.003001   0.244066   38.675025
0.85916   9.782952   19.155655   1.021645
 0.003001   0.250684   57.700448
1.00000   9.782952   19.155655   1.021645
 0.003001   0.794228   84.663795

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -2.262752 -106.640781  -1.295646
-0.003695  -1.383409 -117.841631
0.57747  -2.262752 -106.640781  -1.295646
-0.003695  -0.842989  -74.301709
0.71831  -2.262752 -106.640781  -1.295646
-0.003695  -0.304068  -40.473117
0.85916  -2.262752 -106.640781  -1.295646
-0.003695  -0.191923  -21.726484
1.00000  -2.262752 -106.640781  -1.295646
-0.003695  -0.616533  -10.499079

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.43662  13.638535   19.175252   1.674889
 0.003507   1.803417   43.568502
0.57747  13.638535   19.175252   1.674889
 0.003507   1.099900   36.811539
0.71831  13.638535   19.175252   1.674889
 0.003507   0.399431   35.736846
0.85916  13.638535   19.175252   1.674889
 0.003507   0.376734   52.261085
1.00000  13.638535   19.175252   1.674889
 0.003507   1.219129   82.187113

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.43662  -2.187255 -124.897720  -2.006282
-0.003683  -2.150053 -152.121395
0.57747  -2.187255 -124.897720  -2.006282
-0.003683  -1.311528 -100.791387
0.71831  -2.187255 -124.897720  -2.006282
-0.003683  -0.474114  -59.251794
0.85916  -2.187255 -124.897720  -2.006282
```

```
-0.003683   -0.308518  -32.829989
 1.00000    -2.187255 -124.897720    -2.006282
-0.003683   -1.006940  -17.510279
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3088

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     12.033068     47.810061      1.703710
 0.002723    1.833334     83.815913
0.57747     12.033068     47.810061      1.703710
 0.002723    1.118068     64.886374
0.71831     12.033068     47.810061      1.703710
 0.002723    0.405099     49.893925
0.85916     12.033068     47.810061      1.703710
 0.002723    0.372678     47.195168
1.00000     12.033068     47.810061      1.703710
 0.002723    1.223791     68.758007

COMB DL-G2-4 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -6.527971   -116.687783     -2.027512
-0.003139   -2.178743   -148.246794
0.57747    -6.527971   -116.687783     -2.027512
-0.003139   -1.330156   -100.157076
0.71831    -6.527971   -116.687783     -2.027512
-0.003139   -0.482285    -58.654144
0.85916    -6.527971   -116.687783     -2.027512
-0.003139   -0.310705    -27.830697
1.00000    -6.527971   -116.687783     -2.027512
-0.003139   -1.022853    -21.074282

COMB DL-G3-1 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     1.067147     71.390147      0.538784
 0.000430    0.577470     95.607597
0.57747     1.067147     71.390147      0.538784
 0.000430    0.351664     65.878886
0.71831     1.067147     71.390147      0.538784
 0.000430    0.125955     36.342339
0.85916     1.067147     71.390147      0.538784
 0.000430    0.109698      8.110396
1.00000     1.067147     71.390147      0.538784
 0.000430    0.370659      2.157298

COMB DL-G3-1 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -8.998193     -7.655367     -0.622842
-0.001300   -0.673500    -18.242290
0.57747    -8.998193     -7.655367     -0.622842
-0.001300   -0.412398    -15.244633
0.71831    -8.998193     -7.655367     -0.622842
-0.001300   -0.151461    -12.414336
0.85916    -8.998193     -7.655367     -0.622842
-0.001300   -0.098548    -10.722211
1.00000    -8.998193     -7.655367     -0.622842
-0.001300   -0.324074    -28.186893

COMB DL-G3-2 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     5.372458     87.390556      0.845629
 0.003950    0.904508    136.517055
0.57747     5.372458     87.390556      0.845629
 0.003950    0.549947    101.380794
0.71831     5.372458     87.390556      0.845629
 0.003950    0.198250     73.586854
0.85916     5.372458     87.390556      0.845629
 0.003950    0.200729     71.423849
1.00000     5.372458     87.390556      0.845629
 0.003950    0.615346     92.684342

COMB DL-G3-2 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -11.823851    -93.351723     -0.991046
-0.006559   -1.053443    -79.816378
0.57747    -11.823851    -93.351723     -0.991046
-0.006559   -0.642794    -41.991211
0.71831    -11.823851    -93.351723     -0.991046
-0.006559   -0.234610    -16.078041
0.85916    -11.823851    -93.351723     -0.991046
-0.006559   -0.168550    -10.407178
1.00000    -11.823851    -93.351723     -0.991046
-0.006559   -0.517079    -28.466663
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3089

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     8.188566     81.847699      1.248529
 0.003200    1.340352    127.491997
0.57747     8.188566     81.847699      1.248529
 0.003200    0.816404     94.478146
0.71831     8.188566     81.847699      1.248529
 0.003200    0.294986     67.595855
0.85916     8.188566     81.847699      1.248529
 0.003200    0.290283     61.680339
1.00000     8.188566     81.847699      1.248529
 0.003200    0.930812     80.687174

COMB DL-G3-3 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -10.690027   -102.719050     -1.528266
-0.004997   -1.636697   -107.879841
0.57747    -10.690027   -102.719050     -1.528266
-0.004997   -0.998788    -65.881519
0.71831    -10.690027   -102.719050     -1.528266
-0.004997   -0.363064    -33.406231
0.85916    -10.690027   -102.719050     -1.528266
-0.004997   -0.235141    -17.105937
1.00000    -10.690027   -102.719050     -1.528266
-0.004997   -0.753989    -26.053494

COMB DL-G3-4 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     11.900961     69.793312      1.633321
 0.003318    1.755999    108.697279
0.57747     11.900961     69.793312      1.633321
 0.003318    1.070537     80.537613
0.71831     11.900961     69.793312      1.633321
 0.003318    0.387455     57.503830
0.85916     11.900961     69.793312      1.633321
 0.003318    0.367574     51.728051
1.00000     11.900961     69.793312      1.633321
 0.003318    1.193976     71.055689

COMB DL-G3-4 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -9.036714   -113.528249     -1.969952
-0.004380   -2.113663   -141.478689
0.57747    -9.036714   -113.528249     -1.969952
-0.004380   -1.290118    -94.821284
0.71831    -9.036714   -113.528249     -1.969952
-0.004380   -0.467995    -56.985709
0.85916    -9.036714   -113.528249     -1.969952
-0.004380   -0.302041   -32.876386
 1.00000    -9.036714   -113.528249     -1.969952
-0.004380   -0.982835   -32.750213

COMB DB ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     9.502697     61.423688      1.012023
 0.004306    1.089855    103.440331
0.57747     9.502697     61.423688      1.012023
 0.004306    0.655466     79.326697
0.71831     9.502697     61.423688      1.012023
 0.004306    0.241439     60.345688
0.85916     9.502697     61.423688      1.012023
 0.004306    0.264627     66.963893
1.00000     9.502697     61.423688      1.012023
 0.004306    0.855966     84.214690

COMB DB ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -7.860987   -112.099418     -1.428508
-0.006555   -1.540211   -125.135199
0.57747    -7.860987   -112.099418     -1.428508
-0.006555   -0.941172    -78.656257
0.71831    -7.860987   -112.099418     -1.428508
-0.006555   -0.342028    -46.677763
0.85916    -7.860987   -112.099418     -1.428508
-0.006555   -0.189867    -33.506357
1.00000    -7.860987   -112.099418     -1.428508
-0.006555   -0.608160    -27.267481
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3090

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     13.638535     87.390556      1.891775
 0.003950    2.038665    136.517055
0.57747     13.638535     87.390556      1.891775
 0.003950    1.244203    101.380794
0.71831     13.638535     87.390556      1.891775
 0.003950    0.451446     73.586854
0.85916     13.638535     87.390556      1.891775
 0.003950    0.393889     71.423849
1.00000     13.638535     87.390556      1.891775
 0.003950    1.315395     92.684342

COMB DL ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -11.823851   -126.981126     -2.193396
-0.006559   -2.363037   -155.621807
0.57747    -11.823851   -126.981126     -2.193396
-0.006559   -1.442757   -103.440034
0.71831    -11.823851   -126.981126     -2.193396
-0.006559   -0.522335    -64.370154
0.85916    -11.823851   -126.981126     -2.193396
-0.006559   -0.338067    -39.813246
1.00000    -11.823851   -126.981126     -2.193396
-0.006559   -1.130921    -32.750213

COMB CAR ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     13.638535     87.390556      1.891775
 0.004306    2.038665    136.517055
0.57747     13.638535     87.390556      1.891775
 0.004306    1.244203    101.380794
0.71831     13.638535     87.390556      1.891775
 0.004306    0.451446     73.586854
0.85916     13.638535     87.390556      1.891775
 0.004306    0.393889     71.423849
1.00000     13.638535     87.390556      1.891775
 0.004306    1.315395     92.684342

COMB CAR ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -11.823851   -126.981126     -2.193396
-0.006559   -2.363037   -155.621807
0.57747    -11.823851   -126.981126     -2.193396
-0.006559   -1.442757   -103.440034
0.71831    -11.823851   -126.981126     -2.193396
-0.006559   -0.522335    -64.370154
0.85916    -11.823851   -126.981126     -2.193396
-0.006559   -0.338067    -39.813246
1.00000    -11.823851   -126.981126     -2.193396
-0.006559   -1.130921    -32.750213

COMB DESIGN ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43662     13.638535     87.390556      1.891775
 0.004306    2.038665    136.517055
0.57747     13.638535     87.390556      1.891775
 0.004306    1.244203    101.380794
0.71831     13.638535     87.390556      1.891775
 0.004306    0.451446     73.586854
0.85916     13.638535     87.390556      1.891775
 0.004306    0.393889     71.423849
1.00000     13.638535     87.390556      1.891775
 0.004306    1.315395     92.684342

COMB DESIGN ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43662    -11.823851   -126.981126     -2.193396
-0.006559   -2.363037   -155.621807
0.57747    -11.823851   -126.981126     -2.193396
-0.006559   -1.442757   -103.440034
0.71831    -11.823851   -126.981126     -2.193396
-0.006559   -0.522335    -64.370154
0.85916    -11.823851   -126.981126     -2.193396
-0.006559   -0.338067    -39.813246
1.00000    -11.823851   -126.981126     -2.193396
-0.006559   -1.130921    -32.750213
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3091

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      289 ================== LENGTH
=    2.976399

COMB DB-G1-1 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     2.738896      2.407624      0.558320
0.000730    0.333549      7.909729
0.14081     2.738896      2.407624      0.558320
0.000730    0.099557     16.210505
0.28162     2.738896      2.407624      0.558320
0.000730    0.172624     24.579328
0.42242     2.738896      2.407624      0.558320
0.000730    0.475404     32.980807
0.56323     2.738896      2.407624      0.558320
0.000730    0.778185     41.399684

COMB DB-G1-1 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -0.838378    -20.109223     -0.722477
-0.000384   -0.432975     -9.117361
0.14081    -0.838378    -20.109223     -0.722477
-0.000384   -0.130186     -8.023354
0.28162    -0.838378    -20.109223     -0.722477
-0.000384   -0.134428     -7.274372
0.42242    -0.838378    -20.109223     -0.722477
-0.000384   -0.366427     -6.838497
0.56323    -0.838378    -20.109223     -0.722477
-0.000384   -0.602419     -6.633082

COMB DB-G1-2 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     6.504690      5.153378      0.923493
0.001463    0.551905     13.438593
0.14081     6.504690      5.153378      0.923493
0.001463    0.165056     28.288507
0.28162     6.504690      5.153378      0.923493
0.001463    0.290909     44.160990
0.42242     6.504690      5.153378      0.923493
0.001463    0.798474     60.916936
0.56323     6.504690      5.153378      0.923493
0.001463    1.306003     78.025437

COMB DB-G1-2 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -0.613278    -41.362396     -1.211658
-0.000696   -0.725272    -27.267105
0.14081    -0.613278    -41.362396     -1.211658
-0.000696   -0.217426    -21.593878
0.28162    -0.613278    -41.362396     -1.211658
-0.000696   -0.222161    -16.903693
0.42242    -0.613278    -41.362396     -1.211658
-0.000696   -0.609207    -13.384443
0.56323    -0.613278    -41.362396     -1.211658
-0.000696   -0.996243    -11.671988

COMB DB-G1-3 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     7.203554     18.405917      1.028552
 0.001688    0.616344     27.503761
0.14081     7.203554     18.405917      1.028552
 0.001688    0.185176     42.244460
0.28162     7.203554     18.405917      1.028552
 0.001688    0.342399     58.983039
0.42242     7.203554     18.405917      1.028552
 0.001688    0.937134     81.759597
0.56323     7.203554     18.405917      1.028552
 0.001688    1.531845    104.899024

COMB DB-G1-3 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -1.495568    -55.607425     -1.419050
-0.000480   -0.847052    -18.271873
0.14081    -1.495568    -55.607425     -1.419050
-0.000480   -0.252328    -15.077018
0.28162    -1.495568    -55.607425     -1.419050
-0.000480   -0.245740    -15.861186
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3092

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2             V3
        T         M2             M3
0.42242    -1.495568    -55.607425     -1.419050
-0.000480   -0.676854    -19.554549
0.56323    -1.495568    -55.607425     -1.419050
-0.000480   -1.107920    -24.039567

COMB DB-G1-4 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     7.355350     56.922995      1.015442
 0.004610    0.608265     80.066719
0.14081     7.355350     56.922995      1.015442
 0.004610    0.187229     89.490041
0.28162     7.355350     56.922995      1.015442
 0.004610    0.333847    100.666292
0.42242     7.355350     56.922995      1.015442
 0.004610    0.913878    128.456831
0.56323     7.355350     56.922995      1.015442
 0.004610    1.493906    160.777922

COMB DB-G1-4 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -5.135275    -79.723628     -1.396349
-0.002981   -0.933581    -32.346764
0.14081    -5.135275    -79.723628     -1.396349
-0.002981   -0.262459    -18.842396
0.28162    -5.135275    -79.723628     -1.396349
-0.002981   -0.243407    -23.714184
0.42242    -5.135275    -79.723628     -1.396349
-0.002981   -0.668576    -32.123722
0.56323    -5.135275    -79.723628     -1.396349
-0.002981   -1.094028    -50.892853

COMB DB-G2-1 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     4.092649      2.099874      0.356270
0.000656    0.213157      6.492537
0.14081     4.092649      2.099874      0.356270
0.000656    0.063746     13.003988
0.28162     4.092649      2.099874      0.356270
0.000656    0.122499     22.128481
0.42242     4.092649      2.099874      0.356270
0.000656    0.833581     32.346725
0.56323     4.092649      2.099874      0.356270
0.000656    0.544671     42.692763

COMB DB-G2-1 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -0.154057    -25.278427     -0.503689
-9.64E-05   -0.299697    -17.746687
0.14081    -0.154057    -25.278427     -0.503689
-9.64E-05   -0.088583    -13.164002
0.28162    -0.154057    -25.278427     -0.503689
-9.64E-05   -0.008574    -10.211208
0.42242    -0.154057    -25.278427     -0.503689
-9.64E-05   -0.234786     -8.259099
0.56323    -0.154057    -25.278427     -0.503689
-9.64E-05   -0.384101     -6.985980

COMB DB-G2-2 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     4.904175     61.205435      0.556081
 0.005237    0.334017     81.218760
0.14081     4.904175     61.205435      0.556081
 0.005237    0.107185     69.566410
0.28162     4.904175     61.205435      0.556081
 0.005237    0.197136     60.117162
0.42242     4.904175     61.205435      0.556081
 0.005237    0.536303     73.232289
0.56323     4.904175     61.205435      0.556081
 0.005237    0.875479     92.511231

COMB DB-G2-2 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -4.374730    -49.569450     -0.826221
-0.003236   -0.509986    -11.240823
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3093

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2             V3
        T         M2             M3
0.14081    -4.374730    -49.569450     -0.826221
-0.003236   -0.164342     -7.106907
0.28162    -4.374730    -49.569450     -0.826221
-0.003236   -0.132024     -9.482896
0.42242    -4.374730    -49.569450     -0.826221
-0.003236   -0.365145    -16.317836
0.56323    -4.374730    -49.569450     -0.826221
-0.003236   -0.598197    -37.163990

COMB DB-G2-3 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     7.024112     56.745224      0.929431
 0.005303    0.556966     78.183939
0.14081     7.024112     56.745224      0.929431
 0.005303    0.173063     74.812080
0.28162     7.024112     56.745224      0.929431
 0.005303    0.312022     73.452107
0.42242     7.024112     56.745224      0.929431
 0.005303    0.852369     92.583167
0.56323     7.024112     56.745224      0.929431
 0.005303    1.392721    117.194745

COMB DB-G2-3 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -4.140347    -61.975253     -1.304610
-0.003204   -0.794690    -18.943948
0.14081    -4.140347    -61.975253     -1.304610
-0.003204   -0.248501    -14.005598
0.28162    -4.140347    -61.975253     -1.304610
-0.003204   -0.222013    -14.945716
0.42242    -4.140347    -61.975253     -1.304610
-0.003204   -0.611609    -19.727704
0.56323    -4.140347    -61.975253     -1.304610
-0.003204   -1.001132    -37.091228

COMB DB-G2-4 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     7.168474     61.600418      0.962253
 0.003983    0.576760     67.785348
0.14081     7.168474     61.600418      0.962253
 0.003983    0.177128     78.044533
0.28162     7.168474     61.600418      0.962253
 0.003983    0.315555     90.624915
0.42242     7.168474     61.600418      0.962253
 0.003983    0.865800    117.747097
0.56323     7.168474     61.600418      0.962253
 0.003983    1.414993    148.560855

COMB DB-G2-4 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -6.094786    -75.724494     -1.320447
-0.002762   -0.798844    -20.791443
0.14081    -6.094786    -75.724494     -1.320447
-0.002762   -0.245761    -25.348213
0.28162    -6.094786    -75.724494     -1.320447
-0.002762   -0.229743    -34.722084
0.42242    -6.094786    -75.724494     -1.320447
-0.002762   -0.633081    -47.254739
0.56323    -6.094786    -75.724494     -1.320447
-0.002762   -1.036360    -68.170398

COMB DB-G3-1 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     1.010786     44.203786      0.365830
 0.000459    0.219209     1.765101
0.14081     1.010786     44.203786      0.365830
 0.000459    0.065888     2.527406
0.28162     1.010786     44.203786      0.365830
 0.000459    0.106418     3.553628
0.42242     1.010786     44.203786      0.365830
 0.000459    0.292445     4.664173
0.56323     1.010786     44.203786      0.365830
 0.000459    0.478461     5.888088
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3094

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -5.548067     -6.029963     -0.443870
-0.001205   -0.265643    -13.016994
0.14081    -5.548067     -6.029963     -0.443870
-0.001205   -0.079590    -30.840892
0.28162    -5.548067     -6.029963     -0.443870
-0.001205   -0.087447    -48.940732
0.42242    -5.548067     -6.029963     -0.443870
-0.001205   -0.240751    -67.214782
0.56323    -5.548067     -6.029963     -0.443870
-0.001205   -0.394068    -85.601518

COMB DB-G3-2 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     2.042391     109.158472      0.561015
 0.005811    0.335611     84.397571
0.14081     2.042391     109.158472      0.561015
 0.005811    0.108182     63.988853
0.28162     2.042391     109.158472      0.561015
 0.005811    0.166811     48.966122
0.42242     2.042391     109.158472      0.561015
 0.005811    0.457104     54.067592
0.56323     2.042391     109.158472      0.561015
 0.005811    0.747453     67.682284

COMB DB-G3-2 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -10.689464    -36.482160     -0.713395
-0.005120   -0.448949    -16.308618
0.14081    -10.689464    -36.482160     -0.713395
-0.005120   -0.150826    -32.571667
0.28162    -10.689464    -36.482160     -0.713395
-0.005120   -0.134603    -52.417167
0.42242    -10.689464    -36.482160     -0.713395
-0.005120   -0.369755    -76.639172
0.56323    -10.689464    -36.482160     -0.713395
-0.005120   -0.604875    -117.473319

COMB DB-G3-3 -------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000     4.479998     93.092432      0.735417
 0.004689    0.441651     68.904815
0.14081     4.479998     93.092432      0.735417
 0.004689    0.138650     61.480252
0.28162     4.479998     93.092432      0.735417
 0.004689    0.243432     57.631433
0.42242     4.479998     93.092432      0.735417
 0.004689    0.664864     73.467765
0.56323     4.479998     93.092432      0.735417
 0.004689    1.086253     94.292384

COMB DB-G3-3 -------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000    -9.104018    -52.618315     -1.019597
-0.003798   -0.623315    -15.115259
0.14081    -9.104018    -52.618315     -1.019597
-0.003798   -0.196512    -30.347715
0.28162    -9.104018    -52.618315     -1.019597
-0.003798   -0.174719    -51.459705
0.42242    -9.104018    -52.618315     -1.019597
```

```
-0.003798   -0.482989   -75.940852
 0.56323    -9.104018   -52.618315    -1.019597
-0.003798   -0.791202  -111.744235

COMB DB-G3-4 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000    6.514411    78.775996    0.953537
 0.004376   0.571633    60.516688
 0.14081    6.514411    78.775996    0.953537
 0.004376   0.176764    60.672311
 0.28162    6.514411    78.775996    0.953537
 0.004376   0.310536    64.188757
 0.42242    6.514411    78.775996    0.953537
 0.004376   0.849018    83.972995
 0.56323    6.514411    78.775996    0.953537
 0.004376   1.387459   108.035358
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  3095

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -7.760104   -59.980634   -1.296456
-0.003364  -0.786186   -24.565086
 0.14081   -7.760104   -59.980634   -1.296456
-0.003364  -0.243241   -34.566743
 0.28162   -7.760104   -59.980634   -1.296456
-0.003364  -0.227570   -49.569783
 0.42242   -7.760104   -59.980634   -1.296456
-0.003364  -0.627246   -67.856895
 0.56323   -7.760104   -59.980634   -1.296456
-0.003364  -1.026878   -95.932040

COMB DL-G1-1 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000    4.760123    3.307004    0.981652
 0.000763   0.584246   10.677098
 0.14081    4.760123    3.307004    0.981652
 0.000763   0.173125   22.343783
 0.28162    4.760123    3.307004    0.981652
 0.000763   0.254264   34.704913
 0.42242    4.760123    3.307004    0.981652
 0.000763   0.699096   47.332683
 0.56323    4.760123    3.307004    0.981652
 0.000763   1.143964   60.115437

COMB DL-G1-1 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -0.859308   -31.272697   -1.061419
-0.000353  -0.635435    -8.571520
 0.14081   -0.859308   -31.272697   -1.061419
-0.000353  -0.189709    -7.820375
 0.28162   -0.859308   -31.272697   -1.061419
-0.000353  -0.236625    -7.840151
 0.42242   -0.859308   -31.272697   -1.061419
-0.000353  -0.647890    -8.238655
 0.56323   -0.859308   -31.272697   -1.061419
-0.000353  -1.059990    -8.909230

COMB DL-G1-2 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   11.251546    5.492225    1.655875
 0.001428   0.989066   16.339659
 0.14081   11.251546    5.492225    1.655875
 0.001428   0.296120   38.963453
 0.28162   11.251546    5.492225    1.655875
 0.001428   0.435542   63.889331
 0.42242   11.251546    5.492225    1.655875
 0.001428   1.189575   89.872372
 0.56323   11.251546    5.492225    1.655875
 0.001428   1.943345  116.877821

COMB DL-G1-2 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -0.857501   -67.478815   -1.799112
-0.000581  -1.072631   -25.624456
 0.14081   -0.857501   -67.478815   -1.799112
-0.000581  -0.317194   -19.690242
 0.28162   -0.857501   -67.478815   -1.799112
-0.000581  -0.395533   -16.368560
 0.42242   -0.857501   -67.478815   -1.799112
-0.000581  -0.473872   -15.046808
 0.56323   -0.857501   -67.478815   -1.799112
-0.000581  -1.784138   -15.025937

COMB DL-G1-3 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   11.888376   17.027690    1.920802
 0.001640   1.147489   37.637809
 0.14081   11.888376   17.027690    1.920802
 0.001640   0.343665   64.799836
 0.28162   11.888376   17.027690    1.920802
 0.001640   0.517444   95.107389
 0.42242   11.888376   17.027690    1.920802
 0.001640   1.411848  128.523105
 0.56323   11.888376   17.027690    1.920802
 0.001640   2.306114  163.018346
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  3096

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -1.701604   -84.920156   -2.133288
-0.000438  -1.269363   -18.004854
 0.14081   -1.701604   -84.920156   -2.133288
-0.000438  -0.373628   -14.493157
 0.28162   -1.701604   -84.920156   -2.133288
-0.000438  -0.457877   -16.542057
 0.42242   -1.701604   -84.920156   -2.133288
-0.000438  -1.262231   -20.726727
 0.56323   -1.701604   -84.920156   -2.133288
-0.000438  -2.068630   -25.680834

COMB DL-G1-4 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   11.166137   55.169689    1.843686
 0.003796   1.101993   82.706777
 0.14081   11.166137   55.169689    1.843686
 0.003796   0.334405  104.114122
 0.28162   11.166137   55.169689    1.843686
 0.003796   0.504191  128.870676
 0.42242   11.166137   55.169689    1.843686
 0.003796   1.378494  164.211974
 0.56323   11.166137   55.169689    1.843686
 0.003796   2.253731  205.407773

COMB DL-G1-4 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -6.118648  -102.167776   -2.095949
-0.002242  -1.259968   -18.472471
 0.14081   -6.118648  -102.167776   -2.095949
-0.002242  -0.380835   -19.527489
 0.28162   -6.118648  -102.167776   -2.095949
-0.002242  -0.440340   -27.187240
 0.42242   -6.118648  -102.167776   -2.095949
-0.002242  -1.211332   -38.027685
 0.56323    -6.118648  -102.167776   -2.095949
-0.002242  -1.985084   -58.615761

COMB DL-G2-1 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000    6.652629    2.236856    0.691141
 0.000639   0.415175    8.122512
 0.14081    6.652629    2.236856    0.691141
 0.000639   0.125839   20.339897
 0.28162    6.652629    2.236856    0.691141
 0.000639   0.189099   34.909414
 0.42242    6.652629    2.236856    0.691141
 0.000639   0.511964   50.255177
 0.56323    6.652629    2.236856    0.691141
 0.000639   0.834214   66.158765

COMB DL-G2-1 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -0.181904   -39.899271   -0.768891
-7.53E-05  -0.454555   -16.083915
 0.14081   -0.181904   -39.899271   -0.768891
-7.53E-05  -0.131605   -11.344115
 0.28162   -0.181904   -39.899271   -0.768891
-7.53E-05  -0.162577    -8.546230
 0.42242   -0.181904   -39.899271   -0.768891
-7.53E-05  -0.451944    -7.364914
 0.56323   -0.181904   -39.899271   -0.768891
-7.53E-05  -0.742109    -6.925835

COMB DL-G2-2 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000    7.440032   54.639606    1.054554
 0.004449   0.633853   84.715517
 0.14081    7.440032   54.639606    1.054554
 0.004449   0.198942   85.398785
 0.28162    7.440032   54.639606    1.054554
 0.004449   0.297647   88.917118
 0.42242    7.440032   54.639606    1.054554
 0.004449   0.809489  107.547590
 0.56323    7.440032   54.639606    1.054554
 0.004449   1.322671  134.461655
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  3097

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -4.398852   -68.211167   -1.235692
-0.002481  -0.749776   -10.522550
 0.14081   -4.398852   -68.211167   -1.235692
-0.002481  -0.232001    -6.274979
 0.28162   -4.398852   -68.211167   -1.235692
-0.002481  -0.249646    -9.030031
 0.42242   -4.398852   -68.211167   -1.235692
-0.002481  -0.689535   -15.385480
 0.56323   -4.398852   -68.211167   -1.235692
-0.002481  -1.132191   -36.190539

COMB DL-G2-3 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   11.548757   51.280854    1.710921
 0.004622   1.025308   82.238093
 0.14081   11.548757   51.280854    1.710921
 0.004622   0.314814   93.467886
 0.28162   11.548757   51.280854    1.710921
 0.004622   0.467509  107.717568
 0.42242   11.548757   51.280854    1.710921
 0.004622   1.274472  135.864390
 0.56323   11.548757   51.280854    1.710921
 0.004622   2.082463  171.512904

COMB DL-G2-3 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -4.216114   -90.049753   -1.938278
-0.002491  -1.167705   -17.532395
 0.14081   -4.216114   -90.049753   -1.938278
-0.002491  -0.354637   -12.775129
 0.28162   -4.216114   -90.049753   -1.938278
-0.002491  -0.406597   -14.634824
 0.42242   -4.216114   -90.049753   -1.938278
-0.002491  -1.121556   -19.211068
 0.56323   -4.216114   -90.049753   -1.938278
-0.002491  -1.840089   -38.101683

COMB DL-G2-4 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   10.854238   67.164081    1.726036
 0.003328   1.032623   68.793032
 0.14081   10.854238   67.164081    1.726036
 0.003328   0.313818   90.686070
 0.28162   10.854238   67.164081    1.726036
 0.003328   0.480406  115.455776
 0.42242   10.854238   67.164081    1.726036
 0.003328   1.312066  149.389125
 0.56323   10.854238   67.164081    1.726036
 0.003328   2.144392  188.085792

COMB DL-G2-4 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -7.851318   -96.097085   -1.992149
-0.002197  -1.195036   -21.071745
 0.14081   -7.851318   -96.097085   -1.992149
-0.002197  -0.359459   -30.426924
 0.28162   -7.851318   -96.097085   -1.992149
-0.002197  -0.410645   -45.486639
 0.42242   -7.851318   -96.097085   -1.992149
-0.002197  -1.132567   -62.990817
 0.56323   -7.851318   -96.097085   -1.992149
-0.002197  -1.856896   -88.591642

COMB DL-G3-1 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000    1.170899   71.608655    0.523789
 0.000423   0.312068    2.154012
 0.14081    1.170899   71.608655    0.523789
 0.000423   0.093042    3.384531
 0.28162    1.170899   71.608655    0.523789
 0.000423   0.156822    4.748882
 0.42242    1.170899   71.608655    0.523789
 0.000423   0.431685    6.329435
 0.56323    1.170899   71.608655    0.523789
 0.000423   0.706721    8.937368
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  3098

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   -9.129355   -7.906606   -0.656509
-0.001302  -0.393144   -28.163851
 0.14081   -9.129355   -7.906606   -0.656509
-0.001302  -0.118314   -57.026133
 0.28162   -9.129355   -7.906606   -0.656509
-0.001302  -0.125087   -86.024474
 0.42242   -9.129355   -7.906606   -0.656509
-0.001302  -0.344219  -115.444488
 0.56323    -9.129355   -7.906606   -0.656509
-0.001302  -0.563638  -145.244356

COMB DL-G3-2 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000    2.244521  138.279895    0.813814
 0.005587   0.487332   92.727714
 0.14081    2.244521  138.279895    0.813814
 0.005587   0.155575   74.651143
 0.28162    2.244521  138.279895    0.813814
 0.005587   0.241927   60.177707
 0.42242    2.244521  138.279895    0.813814
 0.005587   0.667350   63.768809
 0.56323    2.244521  138.279895    0.813814
 0.005587   1.094955   78.734741

COMB DL-G3-2 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000  -15.002971   -39.660481   -1.037572
-0.004778  -0.646012   -28.478287
 0.14081  -15.002971   -39.660481   -1.037572
-0.004778  -0.212380   -55.497349
 0.28162  -15.002971   -39.660481   -1.037572
-0.004778  -0.195614   -86.730830
 0.42242  -15.002971   -39.660481   -1.037572
-0.004778  -0.534012  -123.239029
 0.56323  -15.002971   -39.660481   -1.037572
-0.004778  -0.874986  -179.578328

COMB DL-G3-3 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000    5.915295  118.473815    1.248616
 0.004634   0.747954   80.730827
 0.14081    5.915295  118.473815    1.248616
 0.004634   0.231905   79.855494
 0.28162    5.915295  118.473815    1.248616
 0.004634   0.364951   82.425559
 0.42242    5.915295  118.473815    1.248616
 0.004634   0.809241   99.990477
 0.56323    5.915295  118.473815    1.248616
 0.004634   1.635077  125.489355

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000  -12.989933   -63.914189   -1.528741
-0.003693  -0.928333   -26.054418
 0.14081  -12.989933   -63.914189   -1.528741
-0.003693  -0.288099   -51.193115
 0.28162  -12.989933   -63.914189   -1.528741
-0.003693  -0.296664   -82.146533
 0.42242  -12.989933   -63.914189   -1.528741
-0.003693  -0.817962  -115.907428
 0.56323  -12.989933   -63.914189   -1.528741
-0.003693  -1.341632  -164.356122

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   10.028745  100.167927    1.652480
 0.004357   0.989888   71.098094
 0.14081   10.028745  100.167927    1.652480
 0.004357   0.303709   79.742444
 0.28162   10.028745  100.167927    1.652480
 0.004357   0.466293   92.200229
 0.42242   10.028745  100.167927    1.652480
 0.004357   1.273425  117.445616
 0.56323   10.028745  100.167927    1.652480
 0.004357   2.081760  149.653268
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  3099

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000  -11.019658   -81.158035   -1.938410
-0.003256  -1.168233   -32.750079
 0.14081  -11.019658   -81.158035   -1.938410
-0.003256  -0.355740   -50.829712
 0.28162  -11.019658   -81.158035   -1.938410
-0.003256  -0.392380   -74.864373
 0.42242  -11.019658   -81.158035   -1.938410
-0.003256  -1.029296  -101.898774
 0.56323  -11.019658   -81.158035   -1.938410
-0.003256  -1.776371  -141.368001

COMB     DB ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000    7.355350  109.158472    1.028552
 0.005811   0.616344   84.397571
 0.14081    7.355350  109.158472    1.028552
 0.005811   0.187229   89.490041
 0.28162    7.355350  109.158472    1.028552
 0.005811   0.342399  100.666292
 0.42242    7.355350  109.158472    1.028552
 0.005811   0.937134  128.456831
 0.56323    7.355350  109.158472    1.028552
 0.005811   1.531845  160.777922

COMB     DB ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000  -10.689464   -79.723628   -1.419050
-0.005120  -0.847215   -27.267105
 0.14081  -10.689464   -79.723628   -1.419050
-0.005120  -0.262459   -34.566743
 0.28162  -10.689464   -79.723628   -1.419050
-0.005120  -0.245740   -52.417167
 0.42242  -10.689464   -79.723628   -1.419050
-0.005120  -0.676854   -76.639172
 0.56323  -10.689464   -79.723628   -1.419050
-0.005120  -1.107920  -117.473319

COMB     DL ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   11.888376  138.279895    1.920802
 0.005587   1.147489   92.727714
 0.14081   11.888376  138.279895    1.920802
 0.005587   0.343665  104.114122
 0.28162   11.888376  138.279895    1.920802
 0.005587   0.517444  128.870676
 0.42242   11.888376  138.279895    1.920802
 0.005587   1.411848  164.211974
 0.56323   11.888376  138.279895    1.920802
 0.005587   2.306114  205.407773

COMB     DL ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000  -15.002971  -102.167776   -2.133288
-0.004778  -1.269363   -32.750079
 0.14081  -15.002971  -102.167776   -2.133288
-0.004778  -0.380835   -57.026133
 0.28162  -15.002971  -102.167776   -2.133288
-0.004778  -0.457877   -86.730830
 0.42242  -15.002971  -102.167776   -2.133288
-0.004778  -1.262231  -123.239029
 0.56323  -15.002971  -102.167776   -2.133288
-0.004778  -2.068630  -179.578328

COMB     CAR ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   11.888376  138.279895    1.920802
 0.005811   1.147489   92.727714
 0.14081   11.888376  138.279895    1.920802
 0.005811   0.343665  104.114122
 0.28162   11.888376  138.279895    1.920802
 0.005811   0.517444  128.870676
 0.42242   11.888376  138.279895    1.920802
 0.005811   1.411848  164.211974
 0.56323   11.888376  138.279895    1.920802
 0.005811   2.306114  205.407773
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  3100

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000  -15.002971  -102.167776   -2.133288
-0.005120  -1.269363   -32.750079
 0.14081  -15.002971  -102.167776   -2.133288
-0.005120  -0.380835   -57.026133
 0.28162  -15.002971  -102.167776   -2.133288
-0.005120  -0.457877   -86.730830
 0.42242  -15.002971  -102.167776   -2.133288
-0.005120  -1.262231  -123.239029
 0.56323  -15.002971  -102.167776   -2.133288
-0.005120  -2.068630  -179.578328

COMB   DESIGN ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.00000   11.888376  138.279895    1.920802
 0.005811   1.147489   92.727714
 0.14081   11.888376  138.279895    1.920802
 0.005811   0.343665  104.114122
 0.28162   11.888376  138.279895    1.920802
 0.005811   0.517444  128.870676
 0.42242   11.888376  138.279895    1.920802
 0.005811   1.411848  164.211974
 0.56323   11.888376  138.279895    1.920802
 0.005811   2.306114  205.407773

COMB   DESIGN ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.00000  -15.002971  -102.167776   -2.133288
-0.005120  -1.269363   -32.750079
 0.14081  -15.002971  -102.167776   -2.133288
-0.005120  -0.380835   -57.026133
 0.28162  -15.002971  -102.167776   -2.133288
-0.005120  -0.457877   -86.730830
 0.42242  -15.002971  -102.167776   -2.133288
-0.005120  -1.262231  -123.239029
 0.56323  -15.002971  -102.167776   -2.133288
-0.005120  -2.068630  -179.578328

ELEM      290 ================== LENGTH
=     2.977259

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.43664    2.835436    1.895048    0.542713
 0.001142   0.605426    3.141684
 0.57748    2.835436    1.895048    0.542713
 0.001142   0.377859    2.377591
 0.71832    2.835436    1.895048    0.542713
 0.001142   0.150291    3.599576
 0.85916    2.835436    1.895048    0.542713
 0.001142   0.099665    6.240431
 1.00000    2.835436    1.895048    0.542713
 0.001142   0.396526   11.070384

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.43664   -0.910224   -17.093318   -0.707765
-9.11E-06  -0.790579   -22.455379
 0.57748   -0.910224   -17.093318   -0.707765
-9.11E-06  -0.493806   -22.873339
 0.71832   -0.910224   -17.093318   -0.707765
-9.11E-06  -0.197048   -23.348658
 0.85916   -0.910224   -17.093318   -0.707765
-9.11E-06  -0.072286   -23.904416
 1.00000   -0.910224   -17.093318   -0.707765
-9.11E-06  -0.304863   -24.519848

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.43664    3.847063   10.765861    0.896181
 0.002119   0.999989   12.137587
 0.57748    3.847063   10.765861    0.896181
 0.002119   0.624209    8.417739
 0.71832    3.847063   10.765861    0.896181
 0.002119   0.248420    6.246208
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                  3101

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
     T           M2           M3
 0.85916    3.847063   10.765861    0.896181
 0.002119   0.169653    8.996479
 1.00000    3.847063   10.765861    0.896181
 0.002119   0.673621   17.513787

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.43664   -4.441430   -33.853329   -1.201751
-0.000195  -1.342027   -48.026535
 0.57748   -4.441430   -33.853329   -1.201751
-0.000195  -0.838220   -44.693869
 0.71832   -4.441430   -33.853329   -1.201751
-0.000195  -0.334841   -43.955579
 0.85916   -4.441430   -33.853329   -1.201751
-0.000195  -0.128056   -44.226540
 1.00000   -4.441430   -33.853329   -1.201751
-0.000195  -0.503674   -45.433098

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
     T           M2           M3
 0.43664    3.995577   53.669529    0.973333
 0.001726   1.086652  115.205308
 0.57748    3.995577   53.669529    0.973333
 0.001726   0.678522   93.198271
 0.71832    3.995577   53.669529    0.973333
 0.001726   0.270286   72.100981
 0.85916    3.995577   53.669529    0.973333
 0.001726   0.199360   55.467251
 1.00000    3.995577   53.669529    0.973333
 0.001726   0.796043   44.568944

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
     T           M2           M3
 0.43664   -7.342810   -39.595211   -1.422576
-6.05E-06  -1.590094   -60.905875
 0.57748   -7.342810   -39.595211   -1.422576
-6.05E-06  -0.993594   -53.785867
 0.71832   -7.342810   -39.595211   -1.422576
-6.05E-06  -0.397057   -48.024890
 0.85916   -7.342810   -39.595211   -1.422576
-6.05E-06  -0.137689   -42.554887
 1.00000   -7.342810   -39.595211   -1.422576
-6.05E-06  -0.545941   -37.479531
```

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	9.199366	55.168044	0.936853
0.004780	1.045439	118.993939	
0.57748	9.199366	55.168044	0.936853
0.004780	0.652611	97.168839	
0.71832	9.199366	55.168044	0.936853
0.004780	0.259669	82.278035	
0.85916	9.199366	55.168044	0.936853
0.004780	0.209950	85.538875	
1.00000	9.199366	55.168044	0.936853
0.004780	0.792032	104.868673	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-7.126805	-107.519458	-1.389435
-0.003821	-1.538598	-108.730762	
0.57748	-7.126805	-107.519458	-1.389435
-0.003821	-0.957940	-73.280695	
0.71832	-7.126805	-107.519458	-1.389435
-0.003821	-0.385583	-50.778931	
0.85916	-7.126805	-107.519458	-1.389435
-0.003821	-0.146850	-35.788653	
1.00000	-7.126805	-107.519458	-1.389435
-0.003821	-0.536055	-34.564531	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	0.805155	20.241561	0.345677
0.000749	0.386094	32.654912	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57748	0.805155	20.241561	0.345677
0.000749	0.241158	24.726764	
0.71832	0.805155	20.241561	0.345677
0.000749	0.096173	17.551383	
0.85916	0.805155	20.241561	0.345677
0.000749	0.071859	12.244988	
1.00000	0.805155	20.241561	0.345677
0.000749	0.287533	9.756075	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-4.533273	-17.051442	-0.514363
-1.22E-05	-0.575182	-31.658853	
0.57748	-4.533273	-17.051442	-0.514363
-1.22E-05	-0.359503	-25.824706	
0.71832	-4.533273	-17.051442	-0.514363
-1.22E-05	-0.143809	-21.730918	
0.85916	-4.533273	-17.051442	-0.514363
-1.22E-05	-0.048708	-18.004775	
1.00000	-4.533273	-17.051442	-0.514363
-1.22E-05	-0.193729	-15.199157	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	5.357380	60.609792	0.488446
0.005145	0.545496	138.997766	
0.57748	5.357380	60.609792	0.488446
0.005145	0.340693	114.708879	
0.71832	5.357380	60.609792	0.488446
0.005145	0.135738	98.405026	
0.85916	5.357380	60.609792	0.488446
0.005145	0.138478	101.081205	
1.00000	5.357380	60.609792	0.488446
0.005145	0.493376	107.042408	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-6.935922	-81.425608	-0.848326
-0.004480	-0.929735	-69.400404	
0.57748	-6.935922	-81.425608	-0.848326
-0.004480	-0.576692	-38.672079	
0.71832	-6.935922	-81.425608	-0.848326
-0.004480	-0.235031	-25.679427	
0.85916	-6.935922	-81.425608	-0.848326
-0.004480	-0.108706	-18.708761	
1.00000	-6.935922	-81.425608	-0.848326
-0.004480	-0.287644	-12.746300	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	6.450883	56.432431	0.857719
0.005514	0.957442	126.618094	
0.57748	6.450883	56.432431	0.857719
0.005514	0.597790	104.461630	
0.71832	6.450883	56.432431	0.857719
0.005514	0.237988	89.424402	
0.85916	6.450883	56.432431	0.857719
0.005514	0.202731	91.882377	
1.00000	6.450883	56.432431	0.857719
0.005514	0.754657	102.992528	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-7.854348	-87.344360	-1.317920
-0.004049	-1.456049	-80.292619	
0.57748	-7.854348	-87.344360	-1.317920
-0.004049	-0.905841	-53.326186	
0.71832	-7.854348	-87.344360	-1.317920
-0.004049	-0.365919	-42.095982	
0.85916	-7.854348	-87.344360	-1.317920
-0.004049	-0.138503	-36.300540	
1.00000	-7.854348	-87.344360	-1.317920
-0.004049	-0.493733	-31.413702	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	9.137937	62.811195	0.880881
0.003866	0.982945	127.162213	
0.57748	9.137937	62.811195	0.880881
0.003866	0.613585	102.265581	
0.71832	9.137937	62.811195	0.880881
0.003866	0.244100	82.601428	
0.85916	9.137937	62.811195	0.880881
0.003866	0.196074	76.255864	
1.00000	9.137937	62.811195	0.880881
0.003866	0.744467	88.861532	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-8.066390	-107.038896	-1.308790
-0.003561	-1.450878	-122.203470	
0.57748	-8.066390	-107.038896	-1.308790
-0.003561	-0.903669	-84.992809	
0.71832	-8.066390	-107.038896	-1.308790
-0.003561	-0.363162	-58.302806	
0.85916	-8.066390	-107.038896	-1.308790
-0.003561	-0.136297	-35.214840	
1.00000	-8.066390	-107.038896	-1.308790
-0.003561	-0.502777	-32.127177	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	5.363816	31.431515	0.326222
7.20E-06	0.363334	43.406968	
0.57748	5.363816	31.431515	0.326222
7.20E-06	0.226544	30.331305	
0.71832	5.363816	31.431515	0.326222
7.20E-06	0.089751	17.465805	
0.85916	5.363816	31.431515	0.326222
7.20E-06	0.058039	5.323913	
1.00000	5.363816	31.431515	0.326222
7.20E-06	0.228070	1.922383	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-3.185613	-40.887413	-0.405298
-0.001378	-0.451719	-81.397071	
0.57748	-3.185613	-40.887413	-0.405298
-0.001378	-0.281776	-64.300468	
0.71832	-3.185613	-40.887413	-0.405298
-0.001378	-0.111843	-47.230952	
0.85916	-3.185613	-40.887413	-0.405298
-0.001378	-0.047040	-30.183166	
1.00000	-3.185613	-40.887413	-0.405298
-0.001378	-0.183845	-13.764052	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	11.879980	55.132103	0.461080
0.005550	0.513353	109.577177	
0.57748	11.879980	55.132103	0.461080
0.005550	0.320015	87.658314	
0.71832	11.879980	55.132103	0.461080
0.005550	0.126625	75.169512	
0.85916	11.879980	55.132103	0.461080
0.005550	0.120742	85.227730	
1.00000	11.879980	55.132103	0.461080
0.005550	0.403510	102.991622	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-4.591838	-127.412260	-0.676883
-0.007069	-0.731967	-133.022469	
0.57748	-4.591838	-127.412260	-0.676883
-0.007069	-0.451398	-82.528505	
0.71832	-4.591838	-127.412260	-0.676883
-0.007069	-0.184762	-51.876553	
0.85916	-4.591838	-127.412260	-0.676883
-0.007069	-0.089707	-28.239345	
1.00000	-4.591838	-127.412260	-0.676883
-0.007069	-0.276862	-14.074978	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	10.180169	80.978438	0.642927
0.004068	0.717131	161.845368	
0.57748	10.180169	80.978438	0.642927
0.004068	0.447566	128.866615	
0.71832	10.180169	80.978438	0.642927
0.004068	0.177814	102.459763	
0.85916	10.180169	80.978438	0.642927
0.004068	0.157642	92.543918	
1.00000	10.180169	80.978438	0.642927
0.004068	0.575967	91.088773	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-8.047504	-114.702116	-0.999106
-0.005163	-1.099987	-139.705804	
0.57748	-8.047504	-114.702116	-0.999106
-0.005163	-0.683281	-93.689171	
0.71832	-8.047504	-114.702116	-0.999106
-0.005163	-0.276074	-61.383626	
0.85916	-8.047504	-114.702116	-0.999106
-0.005163	-0.108706	-34.077079	
1.00000	-8.047504	-114.702116	-0.999106
-0.005163	-0.372835	-15.604563	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	9.558616	71.242034	0.865276
0.004087	0.965327	137.187828	
0.57748	9.558616	71.242034	0.865276
0.004087	0.602504	108.715572	
0.71832	9.558616	71.242034	0.865276
0.004087	0.239576	85.995337	
0.85916	9.558616	71.242034	0.865276
0.004087	0.193931	77.421715	
1.00000	9.558616	71.242034	0.865276
0.004087	0.729531	79.746343	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-8.956218	-107.386333	-1.278467
-0.004280	-1.414966	-133.907059	
0.57748	-8.956218	-107.386333	-1.278467
-0.004280	-0.880733	-95.117798	
0.71832	-8.956218	-107.386333	-1.278467
-0.004280	-0.354358	-68.665753	
0.85916	-8.956218	-107.386333	-1.278467
-0.004280	-0.136157	-46.385663	
1.00000	-8.956218	-107.386333	-1.278467
-0.004280	-0.495567	-31.531571	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	4.950746	3.068359	0.882800
0.001226	0.985860	4.043279	
0.57748	4.950746	3.068359	0.882800
0.001226	0.619940	3.735857	
0.71832	4.950746	3.068359	0.882800
0.001226	0.244937	3.989673	
0.85916	4.950746	3.068359	0.882800
0.001226	0.144850	7.503975	
1.00000	4.950746	3.068359	0.882800
0.001226	0.577621	14.256856	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-0.999020	-22.855943	-1.030090
-6.39E-06	-1.150071	-42.147676	
0.57748	-0.999020	-22.855943	-1.030090
-6.39E-06	-0.718041	-35.917488	
0.71832	-0.999020	-22.855943	-1.030090
-6.39E-06	-0.286224	-30.035373	
0.85916	-0.999020	-22.855943	-1.030090
-6.39E-06	-0.123610	-27.078739	
1.00000	-0.999020	-22.855943	-1.030090
-6.39E-06	-0.493492	-26.441130	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	6.134059	11.533050	1.453726
0.002127	1.623514	12.311492	
0.57748	6.134059	11.533050	1.453726
0.002127	1.112840	8.618612	
0.71832	6.134059	11.533050	1.453726
0.002127	0.403659	6.528718	
0.85916	6.134059	11.533050	1.453726
0.002127	0.251299	9.777171	
1.00000	6.134059	11.533050	1.453726
0.002127	1.001063	20.567888	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-4.175438	-43.828657	-1.784817
-0.000113	-1.992341	-62.263529	
0.57748	-4.175438	-43.828657	-1.784817
-0.000113	-1.243848	-69.289293	
0.71832	-4.175438	-43.828657	-1.784817
-0.000113	-0.495893	-57.288670	
0.85916	-4.175438	-43.828657	-1.784817
-0.000113	-0.203777	-49.161483	
1.00000	-4.175438	-43.828657	-1.784817
-0.000113	-0.812918	-46.523154	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	6.150177	47.146304	1.651466
0.001808	1.844617	106.534794	
0.57748	6.150177	47.146304	1.651466
0.001808	1.150420	88.762444	
0.71832	6.150177	47.146304	1.651466
0.001808	0.458769	72.033203	
0.85916	6.150177	47.146304	1.651466
0.001808	0.296639	59.579703	
1.00000	6.150177	47.146304	1.651466
0.001808	1.189447	55.057674	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-6.462529	-51.341132	-2.124552
-1.40E-05	-2.373525	-89.865783	
0.57748	-6.462529	-51.341132	-2.124552
-1.40E-05	-1.482382	-73.838722	
0.71832	-6.462529	-51.341132	-2.124552
-1.40E-05	-0.590775	-58.173707	
0.85916	-6.462529	-51.341132	-2.124552
-1.40E-05	-0.229511	-45.632671	
1.00000	-6.462529	-51.341132	-2.124552
-1.40E-05	-0.921841	-38.811082	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	10.042756	52.817604	1.558076
0.004078	1.736404	118.970819	
0.57748	10.042756	52.817604	1.558076
0.004078	1.081938	99.750035	
0.71832	10.042756	52.817604	1.558076
0.004078	0.430632	86.629983	
0.85916	10.042756	52.817604	1.558076
0.004078	0.299203	88.807412	
1.00000	10.042756	52.817604	1.558076
0.004078	1.161062	107.785464	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-6.924313	-104.914456	-2.053359
-0.003267	-2.282356	-124.896582	
0.57748	-6.924313	-104.914456	-2.053359
-0.003267	-1.423620	-86.470057	
0.71832	-6.924313	-104.914456	-2.053359
-0.003267	-0.569844	-57.722930	
0.85916	-6.924313	-104.914456	-2.053359
-0.003267	-0.231201	-38.409607	
1.00000	-6.924313	-104.914456	-2.053359
-0.003267	-0.883665	-35.615181	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	0.878753	16.772876	0.577076
0.000681	0.644774	27.988666	
0.57748	0.878753	16.772876	0.577076
0.000681	0.402281	21.842162	
0.71832	0.878753	16.772876	0.577076
0.000681	0.160315	16.029561	
0.85916	0.878753	16.772876	0.577076
0.000681	0.110466	11.233479	
1.00000	0.878753	16.772876	0.577076
0.000681	0.442516	10.511591	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-3.916599	-21.580454	-0.790327
-7.51E-06	-0.882697	-39.403490	
0.57748	-3.916599	-21.580454	-0.790327
-7.51E-06	-0.551300	-31.947932	
0.71832	-3.916599	-21.580454	-0.790327
-7.51E-06	-0.219359	-24.748106	
0.85916	-3.916599	-21.580454	-0.790327
-7.51E-06	-0.080128	-18.076476	
1.00000	-3.916599	-21.580454	-0.790327
-7.51E-06	-0.321940	-14.312486	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	4.945593	51.773508	0.856081
0.004470	0.952465	128.225303	
0.57748	4.945593	51.773508	0.856081
0.004470	0.593235	108.167315	
0.71832	4.945593	51.773508	0.856081
0.004470	0.236472	97.652345	
0.85916	4.945593	51.773508	0.856081
0.004470	0.193757	100.895852	
1.00000	4.945593	51.773508	0.856081
0.004470	0.718953	108.483463	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-5.975221	-78.737825	-1.252169
-0.004125	-1.381051	-79.539720	
0.57748	-5.975221	-78.737825	-1.252169
-0.004125	-0.859951	-43.670291	
0.71832	-5.975221	-78.737825	-1.252169
-0.004125	-0.345541	-27.775267	
0.85916	-5.975221	-78.737825	-1.252169
-0.004125	-0.138465	-18.090839	
1.00000	-5.975221	-78.737825	-1.252169
-0.004125	-0.496931	-11.487037	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	7.255942	48.881301	1.442637
0.004966	1.607984	117.312137	
0.57748	7.255942	48.881301	1.442637
0.004966	1.002196	99.804771	
0.71832	7.255942	48.881301	1.442637
0.004966	0.399512	89.072617	
0.85916	7.255942	48.881301	1.442637
0.004966	0.289097	92.410025	
1.00000	7.255942	48.881301	1.442637
0.004966	1.104184	105.948283	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-6.877701	-89.692255	-1.942289
-0.003733	-2.153148	-101.909221	
0.57748	-6.877701	-89.692255	-1.942289
-0.003733	-1.342186	-69.706922	
0.71832	-6.877701	-89.692255	-1.942289
-0.003733	-0.537517	-50.153414	
0.85916	-6.877701	-89.692255	-1.942289
-0.003733	-0.218679	-36.917609	
1.00000	-6.877701	-89.692255	-1.942289
-0.003733	-0.823105	-30.754819	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	9.104742	62.082919	1.434473
0.003320	1.598062	127.896254	
0.57748	9.104742	62.082919	1.434473
0.003320	0.995277	104.410898	
0.71832	9.104742	62.082919	1.434473
0.003320	0.395442	85.318467	
0.85916	9.104742	62.082919	1.434473
0.003320	0.280531	76.603213	
1.00000	9.104742	62.082919	1.434473
0.003320	1.094340	90.539829	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-8.298241	-103.214853	-1.939545
-0.003195	-2.158089	-131.185954	
0.57748	-8.298241	-103.214853	-1.939545
-0.003195	-1.346590	-92.272273	
0.71832	-8.298241	-103.214853	-1.939545
-0.003195	-0.539141	-61.118810	
0.85916	-8.298241	-103.214853	-1.939545
-0.003195	-0.212003	-34.937076	
1.00000	-8.298241	-103.214853	-1.939545
-0.003195	-0.813094	-32.150732	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	4.527615	42.862375	0.415263
4.31E-06	0.459725	54.600622	
0.57748	4.527615	42.862375	0.415263
4.31E-06	0.284963	36.892483	
0.71832	4.527615	42.862375	0.415263
4.31E-06	0.111319	19.439533	
0.85916	4.527615	42.862375	0.415263
4.31E-06	0.077227	4.832126	
1.00000	4.527615	42.862375	0.415263
4.31E-06	0.313881	2.110280	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-5.147475	-34.608984	-0.565285
-0.001473	-0.633490	-69.780520	
0.57748	-5.147475	-34.608984	-0.565285
-0.001473	-0.396589	-55.440208	
0.71832	-5.147475	-34.608984	-0.565285
-0.001473	-0.159627	-41.329162	
0.85916	-5.147475	-34.608984	-0.565285
-0.001473	-0.061260	-29.735314	
1.00000	-5.147475	-34.608984	-0.565285
-0.001473	-0.234830	-27.143686	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	10.736214	64.854172	0.629921
0.005575	0.693298	147.220642	
0.57748	10.736214	64.854172	0.629921
0.005575	0.429656	95.371773	
0.71832	10.736214	64.854172	0.629921
0.005575	0.168472	80.92639	
0.85916	10.736214	64.854172	0.629921
0.005575	0.156000	88.828415	
1.00000	10.736214	64.854172	0.629921
0.005575	0.544466	109.751596	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-6.637572	-117.257830	-0.930080
-0.007517	-1.015230	-118.895452	
0.57748	-6.637572	-117.257830	-0.930080
-0.007517	-0.630738	-71.615280	
0.71832	-6.637572	-117.257830	-0.930080
-0.007517	-0.257457	-44.131034	
0.85916	-6.637572	-117.257830	-0.930080
-0.007517	-0.120884	-27.220140	
1.00000	-6.637572	-117.257830	-0.930080
-0.007517	-0.383214	-23.851229	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	9.288196	82.212923	0.995362
0.004252	1.103908	159.901093	
0.57748	9.288196	82.212923	0.995362
0.004252	0.686231	127.891948	
0.71832	9.288196	82.212923	0.995362
0.004252	0.271123	103.574407	
0.85916	9.288196	82.212923	0.995362
0.004252	0.219383	95.937200	
1.00000	9.288196	82.212923	0.995362
0.004252	0.824673	101.928084	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43664	-9.119240	-110.603817	-1.444935
-0.005702	-1.598222	-127.330665	
0.57748	-9.119240	-110.603817	-1.444935
-0.005702	-0.996066	-83.291739	
0.71832	-9.119240	-110.603817	-1.444935
-0.005702	-0.401274	-53.536456	
0.85916	-9.119240	-110.603817	-1.444935
-0.005702	-0.161707	-31.742144	
1.00000	-9.119240	-110.603817	-1.444935
-0.005702	-0.578054	-23.265887	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43664	9.375421	72.231382	1.358267

```
 0.004265    1.510670  135.892463
0.57748     9.375421   72.231382    1.358267
 0.004265    0.940363  108.239471
0.71832     9.375421   72.231382    1.358267
 0.004265    0.377203   87.078457
0.85916     9.375421   72.231382    1.358267
 0.004265    0.276715   80.357956
1.00000     9.375421   72.231382    1.358267
 0.004265    1.062208   89.568819

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.697311 -108.303487   -1.873030
-0.004738   -2.078760 -139.319082
0.57748   -9.697311 -108.303487   -1.873030
-0.004738   -1.296390   -97.905396
0.71832   -9.697311 -108.303487   -1.873030
-0.004738   -0.520217   -68.408814
0.85916   -9.697311 -108.303487   -1.873030
-0.004738   -0.208668   -45.787024
1.00000   -9.697311 -108.303487   -1.873030
-0.004738   -0.777246   -37.397490

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   11.879980   80.978438    0.973333
 0.005550    1.086652  161.845368
0.57748   11.879980   80.978438    0.973333
 0.005550    0.778522  128.666615
0.71832   11.879980   80.978438    0.973333
 0.005550    0.270286  102.459763
0.85916   11.879980   80.978438    0.973333
 0.005550    0.209950  101.081205
1.00000   11.879980   80.978438    0.973333
 0.005550    0.796043  107.042408

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -8.956218 -127.412260   -1.422576
-0.007069   -1.590094 -139.705804
0.57748   -8.956218 -127.412260   -1.422576
-0.007069   -0.993594   -95.117798
0.71832   -8.956218 -127.412260   -1.422576
-0.007069   -0.397057   -68.665753
0.85916   -8.956218 -127.412260   -1.422576
-0.007069   -0.146850   -46.385663
1.00000   -8.956218 -127.412260   -1.422576
-0.007069   -0.545941   -45.433098
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        3109

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   10.736214   82.212923    1.651466
 0.005575    1.844617  159.901093
0.57748   10.736214   82.212923    1.651466
 0.005575    1.150420  127.891948
0.71832   10.736214   82.212923    1.651466
 0.005575    0.458769  103.574407
0.85916   10.736214   82.212923    1.651466
 0.005575    0.299203  100.895852
1.00000   10.736214   82.212923    1.651466
 0.005575    1.189447  109.751596

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.697311 -117.257830   -2.124552
-0.007517   -2.373525 -139.319082
0.57748   -9.697311 -117.257830   -2.124552
-0.007517   -1.482382   -97.905396
0.71832   -9.697311 -117.257830   -2.124552
-0.007517   -0.590775   -68.408814
0.85916   -9.697311 -117.257830   -2.124552
-0.007517   -0.231201   -49.161483
1.00000   -9.697311 -117.257830   -2.124552
-0.007517   -0.921841   -46.523154

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   11.879980   82.212923    1.651466
 0.005575    1.844617  161.845368
0.57748   11.879980   82.212923    1.651466
 0.005575    1.150420  128.866615
0.71832   11.879980   82.212923    1.651466
 0.005575    0.458769  103.574407
0.85916   11.879980   82.212923    1.651466
 0.005575    0.299203  101.081205
1.00000   11.879980   82.212923    1.651466
 0.005575    1.189447  109.751596

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.697311 -127.412260   -2.124552
-0.007517   -2.373525 -139.705804
0.57748   -9.697311 -127.412260   -2.124552
-0.007517   -1.482382   -97.905396
0.71832   -9.697311 -127.412260   -2.124552
-0.007517   -0.590775   -68.665753
0.85916   -9.697311 -127.412260   -2.124552
-0.007517   -0.231201   -49.161483
1.00000   -9.697311 -127.412260   -2.124552
-0.007517   -0.921841   -46.523154

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   11.879980   82.212923    1.651466
 0.005575    1.844617  161.845368
0.57748   11.879980   82.212923    1.651466
 0.005575    1.150420  128.866615
0.71832   11.879980   82.212923    1.651466
 0.005575    0.458769  103.574407
0.85916   11.879980   82.212923    1.651466
 0.005575    0.299203  101.081205
1.00000   11.879980   82.212923    1.651466
 0.005575    1.189447  109.751596

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.697311 -127.412260   -2.124552
-0.007517   -2.373525 -139.705804
0.57748   -9.697311 -127.412260   -2.124552
-0.007517   -1.482382   -97.905396
0.71832   -9.697311 -127.412260   -2.124552
-0.007517   -0.590775   -68.665753
0.85916   -9.697311 -127.412260   -2.124552
-0.007517   -0.231201   -49.161483
1.00000   -9.697311 -127.412260   -2.124552
-0.007517   -0.921841   -46.523154
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        3110

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       291 ================== LENGTH
=     2.977259

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    2.809581    1.961222    0.537291
0.000799    0.299772   11.078737
0.14084    2.809581    1.961222    0.537291
0.000799    0.074390   17.793095
0.28168    2.809581    1.961222    0.537291
0.000799    0.196859   24.766168
0.42252    2.809581    1.961222    0.537291
0.000799    0.489946   31.800338
0.56336    2.809581    1.961222    0.537291
0.000799    0.783066   38.870035

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.909652  -16.910764   -0.699053
-6.68E-06   -0.389428   -24.522418
0.14084   -0.909652  -16.910764   -0.699053
-6.68E-06   -0.096302   -25.182727
0.28168   -0.909652  -16.910764   -0.699053
-6.68E-06   -0.150835   -25.868912
0.42252   -0.909652  -16.910764   -0.699053
-6.68E-06   -0.376129   -26.577044
0.56336   -0.909652  -16.910764   -0.699053
-6.68E-06   -0.601423   -27.336610

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.698560   12.340064    0.888521
 0.001621    0.496432   17.540475
0.14084    3.698560   12.340064    0.888521
 0.001621    0.123983   28.064049
0.28168    3.698560   12.340064    0.888521
 0.001621    0.333946   39.588474
0.42252    3.698560   12.340064    0.888521
 0.001621    0.830282   52.139250
0.56336    3.698560   12.340064    0.888521
 0.001621    1.327101   65.210280

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.514793  -31.728496   -1.185066
-0.000180   -0.660568   -45.440381
0.14084   -4.514793  -31.728496   -1.185066
-0.000180   -0.163699   -47.346241
0.28168   -4.514793  -31.728496   -1.185066
-0.000180   -0.249243   -49.695691
0.42252   -4.514793  -31.728496   -1.185066
-0.000180   -0.621819   -52.759652
0.56336   -4.514793  -31.728496   -1.185066
-0.000180   -0.994385   -56.888940

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.957196   53.008728    0.968266
 0.001828    0.540801   44.571889
0.14084    3.957196   53.008728    0.968266
 0.001828    0.134644   46.541565
0.28168    3.957196   53.008728    0.968266
 0.001828    0.395223   55.594166
0.42252    3.957196   53.008728    0.968266
 0.001828    0.981482   66.283087
0.56336    3.957196   53.008728    0.968266
 0.001828    1.567727   77.578998

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -7.284768  -39.377653   -1.398202
-6.01E-06   -0.777509   -37.479366
0.14084   -7.284768  -39.377653   -1.398202
-6.01E-06   -0.191222   -36.542145
0.28168   -7.284768  -39.377653   -1.398202
-6.01E-06   -0.271182   -51.438910
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        3111

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.42252   -7.284768  -39.377653   -1.398202
-6.01E-06   -0.677293   -71.770326
0.56336   -7.284768  -39.377653   -1.398202
-6.01E-06   -1.083298   -93.186299

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.946572   89.490987    0.929806
 0.004740    0.529521  105.089323
0.14084    6.946572   89.490987    0.929806
 0.004740    0.143344  105.029986
0.28168    6.946572   89.490987    0.929806
 0.004740    0.384723  110.668402
0.42252    6.946572   89.490987    0.929806
 0.004740    0.949002  127.755780
0.56336    6.946572   89.490987    0.929806
 0.004740    1.521817  152.182568

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -8.776758  -70.204885   -1.370583
-0.003734   -0.727975   -34.555164
0.14084   -8.776758  -70.204885   -1.370583
-0.003734   -0.203208   -37.189975
0.28168   -8.776758  -70.204885   -1.370583
-0.003734   -0.260288   -53.287859
0.42252   -8.776758  -70.204885   -1.370583
-0.003734   -0.650267   -73.572600
0.56336   -8.776758  -70.204885   -1.370583
-0.003734   -1.040137  -105.792185

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.794764   19.990823    0.344829
 0.000726    0.192749    9.758973
0.14084    0.794764   19.990823    0.344829
 0.000726    0.048083   11.882968
0.28168    0.794764   19.990823    0.344829
 0.000726    0.142907   15.374936
0.42252    0.794764   19.990823    0.344829
 0.000726    0.354753   20.626528
0.56336    0.794764   19.990823    0.344829
 0.000726    0.566672   27.382491

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.510600  -16.967103   -0.505379
-9.24E-06   -0.280972   -15.199568
0.14084   -4.510600  -16.967103   -0.505379
-9.24E-06   -0.069105   -18.534596
0.28168   -4.510600  -16.967103   -0.505379
-9.24E-06   -0.096442   -24.479340
0.42252   -4.510600  -16.967103   -0.505379
-9.24E-06   -0.241070   -31.709195
0.56336   -4.510600  -16.967103   -0.505379
-9.24E-06   -0.385651   -39.411198

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    2.260216  107.593054    0.485386
 0.005476    0.285038  107.346022
0.14084    2.260216  107.593054    0.485386
 0.005476    0.086646   80.153493
0.28168    2.260216  107.593054    0.485386
 0.005476    0.234175   60.412490
0.42252    2.260216  107.593054    0.485386
 0.005476    0.570771   56.281285
0.56336    2.260216  107.593054    0.485386
 0.005476    0.919057   62.172080

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.199162  -29.992741   -0.836776
-0.004660   -0.484518   -12.737811
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        3112

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.14084   -9.199162  -29.992741   -0.836776
-0.004660   -0.134639   -11.319076
0.28168   -9.199162  -29.992741   -0.836776
-0.004660   -0.135766   -27.715907
0.42252   -9.199162  -29.992741   -0.836776
-0.004660   -0.339430   -49.486819
0.56336   -9.199162  -29.992741   -0.836776
-0.004660   -0.542947   -87.467963

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.641694   98.876780    0.851090
 0.005580    0.487727  103.274331
0.14084    3.641694   98.876780    0.851090
 0.005580    0.135425   84.609169
0.28168    3.641694   98.876780    0.851090
 0.005580    0.364705   72.530182
0.42252    3.641694   98.876780    0.851090
 0.005580    0.896624   74.530388
0.56336    3.641694   98.876780    0.851090
 0.005580    1.439135   85.567957

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.893436  -40.786434   -1.299381
-0.004212   -0.740312   -31.407745
0.14084   -9.893436  -40.786434   -1.299381
-0.004212   -0.196403   -30.659058
0.28168   -9.893436  -40.786434   -1.299381
-0.004212   -0.238412   -46.456155
0.42252   -9.893436  -40.786434   -1.299381
-0.004212   -0.595451   -66.739464
0.56336   -9.893436  -40.786434   -1.299381
-0.004212   -0.952299  -101.705235

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.331477   90.564692    0.875138
 0.003949    0.497399   89.034183
0.14084    7.331477   90.564692    0.875138
 0.003949    0.133404   94.992508
0.28168    7.331477   90.564692    0.875138
 0.003949    0.362184  106.677903
0.42252    7.331477   90.564692    0.875138
 0.003949    0.894635  127.902689
0.56336    7.331477   90.564692    0.875138
 0.003949    1.433980  155.174330

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.405742  -76.984489   -1.289939
-0.003472   -0.729639   -32.113138
0.14084   -9.405742  -76.984489   -1.289939
-0.003472   -0.189351   -37.634046
0.28168   -9.405742  -76.984489   -1.289939
-0.003472   -0.244661   -57.056618
0.42252   -9.405742  -76.984489   -1.289939
-0.003472   -0.611734   -80.664442
0.56336   -9.405742  -76.984489   -1.289939
-0.003472   -0.978685  -114.143491

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.405787   31.538800    0.323032
 1.99E-05    0.811922   31.782208
0.14084    5.405787   31.538800    0.323032
 1.99E-05    0.045571    5.815328
0.28168    5.405787   31.538800    0.323032
 1.99E-05    0.112175   22.558137
0.42252    5.405787   31.538800    0.323032
 1.99E-05    0.280727   39.662967
0.56336    5.405787   31.538800    0.323032
 1.99E-05    0.449289   56.879421
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        3113

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -3.203955  -41.317100   -0.402006
-0.001362   -0.224983   -13.778024
0.14084   -3.203955  -41.317100   -0.402006
-0.001362   -0.056338   -24.342316
0.28168   -3.203955  -41.317100   -0.402006
-0.001362   -0.089898   -36.698027
0.42252   -3.203955  -41.317100   -0.402006
-0.001362   -0.225354   -49.618119
0.56336   -3.203955  -41.317100   -0.402006
-0.001362   -0.360806   -62.746113

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.181826  113.144894    0.453350
 0.005539    0.270489  103.364652
0.14084    8.181826  113.144894    0.453350
 0.005539    0.086795   89.534689
0.28168    8.181826  113.144894    0.453350
 0.005539    0.185857   84.732941
0.42252    8.181826  113.144894    0.453350
 0.005539    0.451748   98.130051
0.56336    8.181826  113.144894    0.453350
 0.005539    0.731942  123.242555

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -7.424773  -65.474248   -0.675550
-0.007146   -0.401230   -14.052137
0.14084   -7.424773  -65.474248   -0.675550
-0.007146   -0.119085   -27.764824
0.28168   -7.424773  -65.474248   -0.675550
-0.007146   -0.126504   -42.576685
0.42252   -7.424773  -65.474248   -0.675550
-0.007146   -0.316637   -62.458804
0.56336   -7.424773  -65.474248   -0.675550
-0.007146   -0.506730  -101.721913

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.646155  120.324197    0.638374
 0.004434    0.368865   91.338235
0.14084    7.646155  120.324197    0.638374
 0.004434    0.105467   84.111340
0.28168    7.646155  120.324197    0.638374
 0.004434    0.275827   86.811211
0.42252    7.646155  120.324197    0.638374
 0.004434    0.677956  102.712072
0.56336    7.646155  120.324197    0.638374
 0.004434    1.089884  127.017698

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.955748  -72.337346   -0.987514
-0.005198   -0.566467   -15.578016
0.14084   -9.955748  -72.337346   -0.987514
-0.005198   -0.153150   -25.487497
0.28168   -9.955748  -72.337346   -0.987514
-0.005198   -0.177955   -52.626580
0.42252   -9.955748  -72.337346   -0.987514
-0.005198   -0.445781   -83.891448
0.56336   -9.955748  -72.337346   -0.987514
-0.005198   -0.713435  -128.577419

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.455607  103.689796    0.858895
 0.004223    0.489801   79.959587
0.14084    7.455607  103.689796    0.858895
 0.004223    0.133170   78.694423
0.28168    7.455607  103.689796    0.858895
 0.004223    0.353615   85.994278
0.42252    7.455607  103.689796    0.858895
 0.004223    0.872761  104.304464
0.56336    7.455607  103.689796    0.858895
 0.004223    1.399995  129.624450
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        3114

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.527175  -72.304021   -1.261645
-0.004308   -0.716164   -31.512800
0.14084  -10.527175  -72.304021   -1.261645
-0.004308   -0.187767   -40.448398
0.28168  -10.527175  -72.304021   -1.261645
-0.004308   -0.239982   -63.272311
0.42252  -10.527175  -72.304021   -1.261645
-0.004308   -0.600230   -90.205160
0.56336  -10.527175  -72.304021   -1.261645
-0.004308   -0.960375  -128.497342

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    4.908798    3.095103    0.884497
 0.000852    0.493115   14.266184
0.14084    4.908798    3.095103    0.884497
 0.000852    0.122745   22.350217
0.28168    4.908798    3.095103    0.884497
 0.000852    0.285254   30.787228
0.42252    4.908798    3.095103    0.884497
 0.000852    0.708424   39.629262
0.56336    4.908798    3.095103    0.884497
 0.000852    1.131841   48.687530

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.989800  -22.630781   -1.009585
-3.91E-06   -0.561408   -26.443683
0.14084   -0.989800  -22.630781   -1.009585
-3.91E-06   -0.137344   -26.353809
0.28168   -0.989800  -22.630781   -1.009585
-3.91E-06   -0.246516   -26.535563
0.42252   -0.989800  -22.630781   -1.009585
-3.91E-06   -0.617158   -27.124687
0.56336   -0.989800  -22.630781   -1.009585
-3.91E-06   -0.988700   -27.999222

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.002296   12.342363    1.468796
 0.001652    0.820318   21.586512
0.14084    6.002296   12.342363    1.468796
 0.001652    0.205219   34.502841
0.28168    6.002296   12.342363    1.468796
 0.001652    0.491398   49.829965
0.42252    6.002296   12.342363    1.468796
 0.001652    1.218476   66.330257
0.56336    6.002296   12.342363    1.468796
 0.001652    1.946068   83.389919

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.213506  -42.379993   -1.735002
-0.000109   -0.963950   -46.527340
0.14084   -4.213506  -42.379993   -1.735002
-0.000109   -0.235205   -46.596650
0.28168   -4.213506  -42.379993   -1.735002
-0.000109   -0.408365   -48.083177
0.42252   -4.213506  -42.379993   -1.735002
-0.000109   -1.023477   -51.569530
0.56336   -4.213506  -42.379993   -1.735002
-0.000109   -1.640600   -55.648247

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.093509   46.445556    1.672290
 0.001814    0.933437   55.071770
0.14084    6.093509   46.445556    1.672290
 0.001814    0.232797   60.671790
0.28168    6.093509   46.445556    1.672290
 0.001814    0.585739   74.014775
0.42252    6.093509   46.445556    1.672290
 0.001814    1.453633   91.208054
0.56336    6.093509   46.445556    1.672290
 0.001814    2.321076  109.445354
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING              LOAD                >
                                        3115

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.416213  -51.043052   -2.068076
-8.42E-06   -1.147219   -38.810476
0.14084   -6.416213  -51.043052   -2.068076
-8.42E-06   -0.278636   -37.401429
0.28168   -6.416213  -51.043052   -2.068076
-8.42E-06   -0.464190   -48.288067
0.42252   -6.416213  -51.043052   -2.068076
-8.42E-06   -1.164493   -65.494896
0.56336   -6.416213  -51.043052   -2.068076
-8.42E-06   -1.867360   -83.719912

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.274865   78.737125    1.564233
```

```
 0.004121    0.885027  107.823234
0.14084     8.274865   78.737125    1.564233
 0.004121    0.230434  112.594862
0.28168     8.274865   78.737125    1.564233
 0.004121    0.567815  124.071024
0.42252     8.274865   78.737125    1.564233
 0.004121    1.406036  146.209845
0.56336     8.274865   78.737125    1.564233
 0.004121    2.249054  174.724097

COMB DL-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -8.327460  -76.853848   -2.016044
-0.002954   -1.132029   -35.604751
0.14084    -8.327460  -76.853848   -2.016044
-0.002954   -0.286453   -38.257963
0.28168    -8.327460  -76.853848   -2.016044
-0.002954   -0.434028   -51.580109
0.42252    -8.327460  -76.853848   -2.016044
-0.002954   -1.087944   -70.769096
0.56336    -8.327460  -76.853848   -2.016044
-0.002954   -1.744883  -101.672670

COMB DL-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.855558   16.494649    0.592492
 0.000729    0.331419   10.518346
0.14084     0.855558   16.494649    0.592492
 0.000729    0.693414   15.102640
0.28168     0.855558   16.494649    0.592492
 0.000729    0.215669   21.774692
0.42252     0.855558   16.494649    0.592492
 0.000729    0.534941   29.698733
0.56336     0.855558   16.494649    0.592492
 0.000729    0.853686   38.348208

COMB DL-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -3.901878  -21.466458   -0.760124
-5.49E-06   -0.420725   -14.361123
0.14084    -3.901878  -21.466458   -0.760124
-5.49E-06   -0.101657   -16.321590
0.28168    -3.901878  -21.466458   -0.760124
-5.49E-06   -0.163553   -20.906151
0.42252    -3.901878  -21.466458   -0.760124
-5.49E-06   -0.411783   -26.659797
0.56336    -3.901878  -21.466458   -0.760124
-5.49E-06   -0.660909   -32.977021

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     2.260893   91.343388    0.869818
 0.004966    0.505390  108.538386
0.14084     2.260893   91.343388    0.869818
 0.004966    0.141555   87.134055
0.28168     2.260893   91.343388    0.869818
 0.004966    0.342297   74.284038
0.42252     2.260893   91.343388    0.869818
 0.004966    0.842783   75.664924
0.56336     2.260893   91.343388    0.869818
 0.004966    1.349731   86.153527
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3116

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -8.120093  -35.596440   -1.218711
-0.003981   -0.694263   -11.479371
0.14084    -8.120093  -35.596440   -1.218711
-0.003981   -0.183287   -9.997412
0.28168    -8.120093  -35.596440   -1.218711
-0.003981   -0.239608   -23.144817
0.42252    -8.120093  -35.596440   -1.218711
-0.003981   -0.602273   -42.051083
0.56336    -8.120093  -35.596440   -1.218711
-0.003981   -0.967205   -78.159301

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     4.800754   84.675848    1.461595
 0.005164    0.633790  106.005176
0.14084     4.800754   84.675848    1.461595
 0.005164    0.222095   93.494357
0.28168     4.800754   84.675848    1.461595
 0.005164    0.532852   89.241711
0.42252     4.800754   84.675848    1.461595
 0.005164    1.316063   97.910750
0.56336     4.800754   84.675848    1.461595
 0.005164    2.105334  114.907631

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -8.807072   -50.536892   -1.890843
-0.003603   -1.065851   -30.750499
0.14084    -8.807072   -50.536892   -1.890843
-0.003603   -0.272603   -29.414603
0.28168    -8.807072   -50.536892   -1.890843
-0.003603   -0.404525   -42.098245
0.42252    -8.807072   -50.536892   -1.890843
-0.003603   -1.013145   -59.815302
0.56336    -8.807072   -50.536892   -1.890843
-0.003603   -1.628790   -93.154936

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     7.655537   83.568556    1.436167
 0.003481    0.811318   90.567158
0.14084     7.655537   83.568556    1.436167
 0.003481    0.210100   99.449040
0.28168     7.655537   83.568556    1.436167
 0.003481    0.503872   115.713682
0.42252     7.655537   83.568556    1.436167
 0.003481    1.333921   140.722524
0.56336     7.655537   83.568556    1.436167
 0.003481    2.133708   171.006132

COMB DL-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -9.466149   -80.116585   -1.911778
-0.002915   -1.072155   -32.135044
0.14084    -9.466149   -80.116585   -1.911778
-0.002915   -0.270263   -39.155802
0.28168    -9.466149   -80.116585   -1.911778
-0.002915   -0.398217   -58.363274
0.42252    -9.466149   -80.116585   -1.911778
-0.002915   -0.998689   -82.094369
0.56336    -9.466149   -80.116585   -1.911778
-0.002915   -1.602017  -115.485857

COMB DL-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     4.561288   42.981549    0.387291
 1.53E-05    0.214139    2.109092
0.14084     4.561288   42.981549    0.387291
 1.53E-05    0.052256    5.936734
0.28168     4.561288   42.981549    0.387291
 1.53E-05    0.164260   19.474934
0.42252     4.561288   42.981549    0.387291
 1.53E-05    0.412430   33.749579
0.56336     4.561288   42.981549    0.387291
 1.53E-05    0.660945   48.209340

Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3117

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -5.174017   -34.970094   -0.592180
-0.001445   -0.331701   -27.141663
0.14084    -5.174017   -34.970094   -0.592180
-0.001445   -0.083856   -38.548897
0.28168    -5.174017   -34.970094   -0.592180
-0.001445   -0.108477   -55.246850
0.42252    -5.174017   -34.970094   -0.592180
-0.001445   -0.270490   -72.908318
0.56336    -5.174017   -34.970094   -0.592180
-0.001445   -0.432745   -90.744723

COMB DL-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     6.992668   121.955144    0.592542
 0.005771    0.355664   109.820400
0.14084     6.992668   121.955144    0.592542
 0.005771    0.109288   93.964646
0.28168     6.992668   121.955144    0.592542
 0.005771    0.263397   85.037291
0.42252     6.992668   121.955144    0.592542
 0.005771    0.649560   93.688813
0.56336     6.992668   121.955144    0.592542
 0.005771    1.046532   114.595929

COMB DL-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -9.752645   -56.685183   -0.960225
-0.007171   -0.563633   -33.229553
0.14084    -9.752645   -56.685183   -0.960225
-0.007171   -0.162530   -39.941254
0.28168    -9.752645   -56.685183   -0.960225
-0.007171   -0.164682   -59.654268
0.42252    -9.752645   -56.685183   -0.960225
-0.007171   -0.410468   -84.606124
0.56336    -9.752645   -56.685183   -0.960225
-0.007171   -0.657471   -133.340797

COMB DL-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     6.592293   123.105830    0.975836
 0.004725    0.562780   101.979282
0.14084     6.592293   123.105830    0.975836
 0.004725    0.154789   91.934157
0.28168     6.592293   123.105830    0.975836
 0.004725    0.404356   93.239639
0.42252     6.592293   123.105830    0.975836
 0.004725    1.002263   108.160123
0.56336     6.592293   123.105830    0.975836
 0.004725    1.607233   132.207255

COMB DL-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.350522   -67.020071   -1.452107
-0.005427   -0.827635   -23.242483
0.14084   -11.350522   -67.020071   -1.452107
-0.005427   -0.219411   -36.269628
0.28168   -11.350522   -67.020071   -1.452107
-0.005427   -0.270188   -54.859573
0.42252   -11.350522   -67.020071   -1.452107
-0.005427   -0.677197   -97.005324
0.56336   -11.350522   -67.020071   -1.452107
-0.005427   -1.086004   -146.546090

COMB DL-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     7.119271   106.041934    1.350850
 0.004498    0.769294   89.618791
0.14084     7.119271   106.041934    1.350850
 0.004498    0.204199   87.208109
0.28168     7.119271   106.041934    1.350850
 0.004498    0.520345   94.721747
0.42252     7.119271   106.041934    1.350850
 0.004498    1.289565   113.755988
0.56336     7.119271   106.041934    1.350850
 0.004498    2.064767   140.444870
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3118

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.538322   -72.054471   -1.856233
-0.004509   -1.048029   -37.380047
0.14084   -11.538322   -72.054471   -1.856233
-0.004509   -0.269902   -48.209153
0.28168   -11.538322   -72.054471   -1.856233
-0.004509   -0.374244   -72.501912
0.42252   -11.538322   -72.054471   -1.856233
-0.004509   -0.938807   -100.454661
0.56336   -11.538322   -72.054471   -1.856233
-0.004509   -1.505386   -143.035113

COMB      DB -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     8.181826   120.324197    0.968266
 0.005580    0.540801   107.346022
0.14084     8.181826   120.324197    0.968266
 0.005580    0.143344   105.029986
0.28168     8.181826   120.324197    0.968266
 0.005580    0.335223   110.686402
0.42252     8.181826   120.324197    0.968266
 0.005580    0.981482   127.902689
0.56336     8.181826   120.324197    0.968266
 0.005580    1.567727   155.174330

COMB      DB -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -10.527175   -76.984489   -1.398202
-0.007146   -0.777509   -45.440381
0.14084   -10.527175   -76.984489   -1.398202
-0.007146   -0.203208   -47.346241
0.28168   -10.527175   -76.984489   -1.398202
-0.007146   -0.271182   -63.272311
0.42252   -10.527175   -76.984489   -1.398202
-0.007146   -0.677293   -90.205160
0.56336   -10.527175   -76.984489   -1.398202
-0.007146   -1.083298   -128.577419

COMB      DL -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     8.274865   123.105830    1.672290
 0.005771    0.933437   109.820400
0.14084     8.274865   123.105830    1.672290
 0.005771    0.232797   112.594862
0.28168     8.274865   123.105830    1.672290
 0.005771    0.585739   124.071024
0.42252     8.274865   123.105830    1.672290
 0.005771    1.453633   146.209845
0.56336     8.274865   123.105830    1.672290
 0.005771    2.321076   174.724097

COMB      DL -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.538322   -80.116585   -2.068076
-0.007171   -1.147219   -46.527340
0.14084   -11.538322   -80.116585   -2.068076
-0.007171   -0.286453   -48.209153
0.28168   -11.538322   -80.116585   -2.068076
-0.007171   -0.464190   -72.501912
0.42252   -11.538322   -80.116585   -2.068076
-0.007171   -1.164493   -100.454661
0.56336   -11.538322   -80.116585   -2.068076
-0.007171   -1.867360   -146.546090

COMB      CAR -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     8.274865   123.105830    1.672290
 0.005771    0.933437   109.820400
0.14084     8.274865   123.105830    1.672290
 0.005771    0.232797   112.594862
0.28168     8.274865   123.105830    1.672290
 0.005771    0.585739   124.071024
0.42252     8.274865   123.105830    1.672290
 0.005771    1.453633   146.209845
0.56336     8.274865   123.105830    1.672290
 0.005771    2.321076   174.724097
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3119

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.538322   -80.116585   -2.068076
-0.007171   -1.147219   -46.527340
0.14084   -11.538322   -80.116585   -2.068076
-0.007171   -0.286453   -48.209153
0.28168   -11.538322   -80.116585   -2.068076
-0.007171   -0.464190   -72.501912
0.42252   -11.538322   -80.116585   -2.068076
-0.007171   -1.164493   -100.454661
0.56336   -11.538322   -80.116585   -2.068076
-0.007171   -1.867360   -146.546090

COMB      DESIGN -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     8.274865   123.105830    1.672290
 0.005771    0.933437   109.820400
0.14084     8.274865   123.105830    1.672290
 0.005771    0.232797   112.594862
0.28168     8.274865   123.105830    1.672290
 0.005771    0.585739   124.071024
0.42252     8.274865   123.105830    1.672290
 0.005771    1.453633   146.209845
0.56336     8.274865   123.105830    1.672290
 0.005771    2.321076   174.724097

COMB      DESIGN -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.538322   -80.116585   -2.068076
-0.007171   -1.147219   -46.527340
0.14084   -11.538322   -80.116585   -2.068076
-0.007171   -0.286453   -48.209153
0.28168   -11.538322   -80.116585   -2.068076
-0.007171   -0.464190   -72.501912
0.42252   -11.538322   -80.116585   -2.068076
-0.007171   -1.164493   -100.454661
0.56336   -11.538322   -80.116585   -2.068076
-0.007171   -1.867360   -146.546090

ELEM      292 ================== LENGTH
=     2.977267

COMB DB-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664     1.697863    9.518963    0.552486
0.001061    0.615384    2.746679
0.57748     1.697863    9.518963    0.552486
0.001061    0.383718    2.280454
0.71832     1.697863    9.518963    0.552486
0.001061    0.152051    3.094340
0.85916     1.697863    9.518963    0.552486
0.001061    0.103096    6.203499
1.00000     1.697863    9.518963    0.552486
0.001061    0.403190   10.494302

COMB DB-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664    -2.517163  -12.175752   -0.715696
-1.07E-05   -0.797224   -24.923202
0.57748    -2.517163  -12.175752   -0.715696
-1.07E-05   -0.497120   -28.209432
0.71832    -2.517163  -12.175752   -0.715696
-1.07E-05   -0.197051   -31.586783
0.85916    -2.517163  -12.175752   -0.715696
-1.07E-05   -0.079625   -35.046170
1.00000    -2.517163  -12.175752   -0.715696
-1.07E-05   -0.311303   -38.657610

COMB DB-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664     2.079621   28.805494    0.911820
 0.001978    1.015737   23.949599
0.57748     2.079621   28.805494    0.911820
 0.001978    0.633398   17.110399
0.71832     2.079621   28.805494    0.911820
 0.001978    0.251057   11.762764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3120

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.85916     2.079621   28.805494    0.911820
 0.001978    0.172740   11.557069
1.00000     2.079621   28.805494    0.911820
 0.001978    0.676788   17.423822

COMB DB-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664    -6.936721  -21.839116   -1.201997
-0.000221   -1.339330   -38.782646
0.57748    -6.936721  -21.839116   -1.201997
-0.000221   -0.835309   -40.351427
0.71832    -6.936721  -21.839116   -1.201997
-0.000221   -0.331982   -45.223778
0.85916    -6.936721  -21.839116   -1.201997
-0.000221   -0.132008   -52.002313
1.00000    -6.936721  -21.839116   -1.201997
-0.000221   -0.514217   -59.631102

COMB DB-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664     1.817620   79.900129    0.991901
 0.001561    1.105420  155.797116
0.57748     1.817620   79.900129    0.991901
 0.001561    0.689514  127.140966
0.71832     1.817620   79.900129    0.991901
 0.001561    0.273475   99.298021
0.85916     1.817620   79.900129    0.991901
 0.001561    0.200158   75.125459
1.00000     1.817620   79.900129    0.991901
 0.001561    0.788201   55.808150

COMB DB-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -10.362396  -21.151500   -1.402465
-6.54E-06   -1.564089   -41.360214
0.57748   -10.362396  -21.151500   -1.402465
-6.54E-06   -0.976006   -42.082361
0.71832   -10.362396  -21.151500   -1.402465
-6.54E-06   -0.387885   -44.638123
0.85916   -10.362396  -21.151500   -1.402465
-6.54E-06   -0.142276   -48.414404
1.00000   -10.362396  -21.151500   -1.402465
-6.54E-06   -0.558322   -52.389858

COMB DB-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664     8.063219   74.464493    0.934370
 0.004725    1.040909   150.422128
0.57748     8.063219   74.464493    0.934370
 0.004725    0.649101   124.963327
0.71832     8.063219   74.464493    0.934370
 0.004725    0.257224   107.510904
0.85916     8.063219   74.464493    0.934370
 0.004725    0.210570   107.211817
1.00000     8.063219   74.464493    0.934370
 0.004725    0.784037   121.877339

COMB DB-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664    -9.246654   -97.750865   -1.368278
-0.004095   -1.511859   -94.242530
0.57748    -9.246654   -97.750865   -1.368278
-0.004095   -0.938205   -65.055964
0.71832    -9.246654   -97.750865   -1.368278
-0.004095   -0.377348   -49.292124
0.85916    -9.246654   -97.750865   -1.368278
-0.004095   -0.148647   -41.465176
1.00000    -9.246654   -97.750865   -1.368278
-0.004095   -0.537426   -47.005918

COMB DB-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664     0.460628   33.130315    0.352593
 0.000679    0.393013   56.755043
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3121

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.57748     0.460628   33.130315    0.352593
 0.000679    0.245176   43.484808
0.71832     0.460628   33.130315    0.352593
 0.000679    0.097293   30.649392
0.85916     0.460628   33.130315    0.352593
 0.000679    0.070659   18.832027
1.00000     0.460628   33.130315    0.352593
 0.000679    0.280520   12.632032

COMB DB-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664    -5.539607   -7.859242   -0.500394
-9.10E-05   -0.558794   -15.708782
0.57748    -5.539607   -7.859242   -0.500394
-9.10E-05   -0.348996   -12.653506
0.71832    -5.539607   -7.859242   -0.500394
-9.10E-05   -0.139212   -11.811660
0.85916    -5.539607   -7.859242   -0.500394
-9.10E-05   -0.050487   -12.553175
1.00000    -5.539607   -7.859242   -0.500394
-9.10E-05   -0.198414   -13.654011

COMB DB-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664     4.462016   80.322916    0.472470
 0.005179    0.526676   187.495199
0.57748     4.462016   80.322916    0.472470
 0.005179    0.328545   155.914775
0.71832     4.462016   80.322916    0.472470
 0.005179    0.130324   134.019438
0.85916     4.462016   80.322916    0.472470
 0.005179    0.135046   127.916773
1.00000     4.462016   80.322916    0.472470
 0.005179    0.474803   125.671158

COMB DB-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664    -8.346956   -67.152080   -0.811191
-0.004875   -0.887052   -40.485435
0.57748    -8.346956   -67.152080   -0.811191
-0.004875   -0.547026   -17.677897
0.71832    -8.346956   -67.152080   -0.811191
-0.004875   -0.224511   -13.109123
0.85916    -8.346956   -67.152080   -0.811191
-0.004875   -0.087070   -12.754488
1.00000    -8.346956   -67.152080   -0.811191
-0.004875   -0.281035   -13.178899

COMB DB-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664     4.949310   81.427260    0.850927
 0.005477    0.948200   168.791095
0.57748     4.949310   81.427260    0.850927
 0.005477    0.591396   140.663965
0.71832     4.949310   81.427260    0.850927
 0.005477    0.234446   121.273000
0.85916     4.949310   81.427260    0.850927
 0.005477    0.201451   117.696868
1.00000     4.949310   81.427260    0.850927
 0.005477    0.740542   119.464404

COMB DB-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -10.213523   -69.796470   -1.286465
-0.004406   -1.418352   -51.699342
0.57748   -10.213523   -69.796470   -1.286465
-0.004406   -0.879024   -34.979375
0.71832   -10.213523   -69.796470   -1.286465
-0.004406   -0.355538   -34.407989
0.85916   -10.213523   -69.796470   -1.286465
-0.004406   -0.139679   -37.404120
1.00000   -10.213523   -69.796470   -1.286465
-0.004406   -0.492811   -41.153317
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3122

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664     9.245097   77.271292    0.880454
```

```
 0.003812    0.980720  152.057207
0.57748     9.245097   77.271292    0.880454
 0.003812    0.611521  125.081879
0.71832     9.245097   77.271292    0.880454
 0.003812    0.242242  104.199471
0.85916     9.245097   77.271292    0.880454
 0.003812    0.195895   95.426102
1.00000     9.245097   77.271292    0.880454
 0.003812    0.734606  105.329139

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.385954 -103.912468   -1.285260
-0.003771   -1.421868 -115.130664
0.57748   -9.385954 -103.912468   -1.285260
-0.003771   -0.883010  -81.188754
0.71832   -9.385954 -103.912468   -1.285260
-0.003771   -0.354515  -58.101680
0.85916   -9.385954 -103.912468   -1.285260
-0.003771   -0.138281  -37.517123
1.00000   -9.385954 -103.912468   -1.285260
-0.003771   -0.505094  -39.752450

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    7.976343   17.983169    0.328756
 7.33E-06    0.365507   22.805695
0.57748    7.976343   17.983169    0.328756
 7.33E-06    0.277654   15.429238
0.71832    7.976343   17.983169    0.328756
 7.33E-06    0.089801    8.514693
0.85916    7.976343   17.983169    0.328756
 7.33E-06    0.059318    3.026264
1.00000    7.976343   17.983169    0.328756
 7.33E-06    0.230280    2.256105

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -1.513019  -62.782632   -0.407517
-0.001304   -0.453237 -118.650624
0.57748   -1.513019  -62.782632   -0.407517
-0.001304   -0.282358  -92.073948
0.71832   -1.513019  -62.782632   -0.407517
-0.001304   -0.111498  -65.825061
0.85916   -1.513019  -62.782632   -0.407517
-0.001304   -0.048073  -39.594716
1.00000   -1.513019  -62.782632   -0.407517
-0.001304   -0.185926  -13.485940

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   14.693154   43.930312    0.427214
 0.005728    0.474991   98.750091
0.57748   14.693154   43.930312    0.427214
 0.005728    0.295828   82.742281
0.71832   14.693154   43.930312    0.427214
 0.005728    0.116714   78.623237
0.85916   14.693154   43.930312    0.427214
 0.005728    0.120641   94.288197
1.00000   14.693154   43.930312    0.427214
 0.005728    0.398533  114.405162

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -2.963048 -148.964078   -0.663595
-0.007482   -0.716067 -161.543822
0.57748   -2.963048 -148.964078   -0.663595
-0.007482   -0.437964 -105.440003
0.71832   -2.963048 -148.964078   -0.663595
-0.007482   -0.181295  -69.239444
0.85916   -2.963048 -148.964078   -0.663595
-0.007482   -0.086141  -36.722941
1.00000   -2.963048 -148.964078   -0.663595
-0.007482   -0.260076  -12.786718
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3123

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   12.082557   82.427134    0.631269
 0.004105    0.720220  180.761351
0.57748   12.082557   82.427134    0.631269
 0.004105    0.438123  148.053692
0.71832   12.082557   82.427134    0.631269
 0.004105    0.173284  123.636596
0.85916   12.082557   82.427134    0.631269
 0.004105    0.156074  113.217054
1.00000   12.082557   82.427134    0.631269
 0.004105    0.563092  107.534337

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -7.514391 -125.674052   -0.971290
-0.005416   -1.067082 -152.961667
0.57748   -7.514391 -125.674052   -0.971290
-0.005416   -0.659903 -104.644661
0.71832   -7.514391 -125.674052   -0.971290
-0.005416   -0.267352  -70.065006
0.85916   -7.514391 -125.674052   -0.971290
-0.005416   -0.107478  -38.043983
1.00000   -7.514391 -125.674052   -0.971290
-0.005416   -0.368728  -14.614228

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   10.651389   79.827133    0.861886
 0.004065    0.959804  155.900868
0.57748   10.651389   79.827133    0.861886
 0.004065    0.598383  126.795248
0.71832   10.651389   79.827133    0.861886
 0.004065    0.236992  104.772565
0.85916   10.651389   79.827133    0.861886
 0.004065    0.193255   95.331312
1.00000   10.651389   79.827133    0.861886
 0.004065    0.718494   93.237727

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.304740 -111.578597   -1.253136
-0.004488   -1.384228 -138.311735
0.57748   -9.304740 -111.578597   -1.253136
-0.004488   -0.858849  -99.690710
0.71832   -9.304740 -111.578597   -1.253136
-0.004488   -0.345520  -73.723843
0.85916   -9.304740 -111.578597   -1.253136
-0.004488   -0.137783  -50.727083
1.00000   -9.304740 -111.578597   -1.253136
-0.004488   -0.496355  -35.003778

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    2.760162   10.611322    0.822058
 0.001107    0.916366    3.232495
0.57748    2.760162   10.611322    0.822058
 0.001107    0.571004    2.885808
0.71832    2.760162   10.611322    0.822058
 0.001107    0.226430    3.790511
0.85916    2.760162   10.611322    0.822058
 0.001107    0.145791    8.525441
1.00000    2.760162   10.611322    0.822058
 0.001107    0.572634   14.039748

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -2.390790  -14.778166   -1.016066
-7.92E-06   -1.131510  -36.796729
0.57748   -2.390790  -14.778166   -1.016066
-7.92E-06   -0.705353  -36.414521
0.71832   -2.390790  -14.778166   -1.016066
-7.92E-06   -0.279423  -36.649077
0.85916   -2.390790  -14.778166   -1.016066
-7.92E-06   -0.116462  -40.321214
1.00000   -2.390790  -14.778166   -1.016066
-7.92E-06   -0.460986  -44.209706
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3124

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    3.123274   29.820563    1.370077
 0.001888    1.525779   24.035520
0.57748    3.123274   29.820563    1.370077
 0.001888    0.949649   17.320207
0.71832    3.123274   29.820563    1.370077
 0.001888    0.376046   12.208237
0.85916    3.123274   29.820563    1.370077
 0.001888    0.244397   13.554162
1.00000    3.123274   29.820563    1.370077
 0.001888    0.965546   20.716545

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -7.236291  -24.993959   -1.716836
-0.000143   -1.913818  -53.869442
0.57748   -7.236291  -24.993959   -1.716836
-0.000143   -1.193661  -52.457976
0.71832   -7.236291  -24.993959   -1.716836
-0.000143   -0.474416  -52.331891
0.85916   -7.236291  -24.993959   -1.716836
-0.000143   -0.196142  -57.418671
1.00000   -7.236291  -24.993959   -1.716836
-0.000143   -0.770193  -65.498300

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    2.917700   74.201150    1.532376
 0.001570    1.706628  152.376629
0.57748    2.917700   74.201150    1.532376
 0.001570    1.062185  126.737541
0.71832    2.917700   74.201150    1.532376
 0.001570    0.420522  102.269135
0.85916    2.917700   74.201150    1.532376
 0.001570    0.285039   83.360291
1.00000    2.917700   74.201150    1.532376
 0.001570    1.131939   69.012974

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.948364  -25.559352   -2.016428
-1.35E-05   -2.249596  -54.069434
0.57748   -9.948364  -25.559352   -2.016428
-1.35E-05   -1.403734  -51.518178
0.71832   -9.948364  -25.559352   -2.016428
-1.35E-05   -0.557594  -49.673832
0.85916   -9.948364  -25.559352   -2.016428
-1.35E-05   -0.217440  -52.563519
1.00000   -9.948364  -25.559352   -2.016428
-1.35E-05   -0.859887  -57.397783

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    8.114387   71.443477    1.410370
 0.003949    1.564550  153.304016
0.57748    8.114387   71.443477    1.410370
 0.003949    0.973259  129.772726
0.71832    8.114387   71.443477    1.410370
 0.003949    0.384762  113.374749
0.85916    8.114387   71.443477    1.410370
 0.003949    0.287590  113.936254
1.00000    8.114387   71.443477    1.410370
 0.003949    1.101241  127.900589

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -8.960375  -88.792004   -1.938967
-0.003322   -2.150957  -97.489661
0.57748   -8.960375  -88.792004   -1.938967
-0.003322   -1.338045  -68.531867
0.71832   -8.960375  -88.792004   -1.938967
-0.003322   -0.534600  -51.389435
0.85916   -8.960375  -88.792004   -1.938967
-0.003322   -0.214000  -45.077289
1.00000   -8.960375  -88.792004   -1.938967
-0.003322   -0.804713  -51.397896
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3125

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    0.399393   29.724815    0.547720
 0.000590    0.609200   53.514354
0.57748    0.399393   29.724815    0.547720
 0.000590    0.378917   41.742815
0.71832    0.399393   29.724815    0.547720
 0.000590    0.149345   30.327400
0.85916    0.399393   29.724815    0.547720
 0.000590    0.100932   19.991324
1.00000    0.399393   29.724815    0.547720
 0.000590    0.405557   13.228406

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -5.830321  -8.834197   -0.725135
-8.10E-05   -0.810565  -16.652761
0.57748   -5.830321  -8.834197   -0.725135
-8.10E-05   -0.506235  -14.494980
0.71832   -5.830321  -8.834197   -0.725135
-8.10E-05   -0.201648  -12.614210
0.85916   -5.830321  -8.834197   -0.725135
-8.10E-05   -0.078900  -11.682695
1.00000   -5.830321  -8.834197   -0.725135
-8.10E-05   -0.308335  -12.581804

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    4.088647   72.620351    0.764520
 0.004481    0.842384  184.677408
0.57748    4.088647   72.620351    0.764520
 0.004481    0.523670  156.611355
0.71832    4.088647   72.620351    0.764520
 0.004481    0.206742  137.340014
0.85916    4.088647   72.620351    0.764520
 0.004481    0.179821  131.417554
1.00000    4.088647   72.620351    0.764520
 0.004481    0.660147  128.995494

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -8.007218  -59.691880   -1.144736
-0.004264   -1.260817  -40.080864
0.57748   -8.007218  -59.691880   -1.144736
-0.004264   -0.781569  -18.256670
0.71832   -8.007218  -59.691880   -1.144736
-0.004264   -0.315751  -13.106156
0.85916   -8.007218  -59.691880   -1.144736
-0.004264   -0.128562  -11.620946
1.00000   -8.007218  -59.691880   -1.144736
-0.004264   -0.448882  -12.114481

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    4.908881   75.421279    1.323743
 0.004867    1.466196  166.386170
0.57748    4.908881   75.421279    1.323743
 0.004867    0.912291  141.520133
0.71832    4.908881   75.421279    1.323743
 0.004867    0.360429  124.637738
0.85916    4.908881   75.421279    1.323743
 0.004867    0.274523  122.535258
1.00000    4.908881   75.421279    1.323743
 0.004867    1.038556  124.834757

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.861665  -64.979698   -1.820042
-0.003859   -2.014973  -60.068594
0.57748   -9.861665  -64.979698   -1.820042
-0.003859   -1.252394  -41.129435
0.71832   -9.861665  -64.979698   -1.820042
-0.003859   -0.502078  -37.281623
0.85916   -9.861665  -64.979698   -1.820042
-0.003859   -0.206539  -38.923815
1.00000   -9.861665  -64.979698   -1.820042
-0.003859   -0.761260  -43.157096
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3126

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    8.477158   74.212226    1.294364
 0.003216    1.435151  152.495278
0.57748    8.477158   74.212226    1.294364
 0.003216    0.892220  127.049101
0.71832    8.477158   74.212226    1.294364
 0.003216    0.351733  106.925689
0.85916    8.477158   74.212226    1.294364
 0.003216    0.266480   99.293104
1.00000    8.477158   74.212226    1.294364
 0.003216    1.027031  110.759816

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.285854  -94.642596   -1.812379
-0.003184   -2.012792 -112.417811
0.57748   -9.285854  -94.642596   -1.812379
-0.003184   -1.252832  -79.505755
0.71832   -9.285854  -94.642596   -1.812379
-0.003184   -0.492856  -55.938338
0.85916   -9.285854  -94.642596   -1.812379
-0.003184   -0.195976  -38.603706
1.00000   -9.285854  -94.642596   -1.812379
-0.003184   -0.738444  -42.338524

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    6.926073   21.659696    0.356207
 4.33E-06    0.393755   25.699964
0.57748    6.926073   21.659696    0.356207
 4.33E-06    0.243149   16.972551
0.71832    6.926073   21.659696    0.356207
 4.33E-06    0.094826    8.289418
0.85916    6.926073   21.659696    0.356207
 4.33E-06    0.074846    3.309445
1.00000    6.926073   21.659696    0.356207
 4.33E-06    0.294802    2.581360

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -2.117214  -56.915940   -0.525871
-0.001331   -0.586810 -110.736847
0.57748   -2.117214  -56.915940   -0.525871
-0.001331   -0.366062  -87.122585
0.71832   -2.117214  -56.915940   -0.525871
-0.001331   -0.145781  -63.538739
0.85916   -2.117214  -56.915940   -0.525871
-0.001331   -0.053042  -43.229892
1.00000   -2.117214  -56.915940   -0.525871
-0.001331   -0.201760  -25.289181

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   13.452797   46.094345    0.506682
 0.005722    0.747742  104.882829
0.57748   13.452797   46.094345    0.506682
 0.005722    0.340389   88.356049
0.71832   13.452797   46.094345    0.506682
 0.005722    0.132979   84.217872
0.85916   13.452797   46.094345    0.506682
 0.005722    0.150273  100.869312
1.00000   13.452797   46.094345    0.506682
 0.005722    0.508504  122.128618

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -3.358144 -138.697991   -0.857264
-0.007513   -0.930489 -152.486509
0.57748   -3.358144 -138.697991   -0.857264
-0.007513   -0.571943  -96.891265
0.71832   -3.358144 -138.697991   -0.857264
-0.007513   -0.234265  -64.669091
0.85916   -3.358144 -138.697991   -0.857264
-0.007513   -0.103143  -39.693087
1.00000   -3.358144 -138.697991   -0.857264
-0.007513   -0.313968  -20.401207
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3127

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   11.152129   77.043908    0.857171
 0.004323    0.942655  176.598473
0.57748   11.152129   77.043908    0.857171
 0.004323    0.585133  146.793602
0.71832   11.152129   77.043908    0.857171
 0.004323    0.229535  125.909839
0.85916   11.152129   77.043908    0.857171
 0.004323    0.207053  120.840587
1.00000   11.152129   77.043908    0.857171
 0.004323    0.762786  120.413406

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -7.463040 -119.192188   -1.326617
-0.005658   -1.462898 -143.403852
0.57748   -7.463040 -119.192188   -1.326617
-0.005658   -0.907029  -95.519434
0.71832   -7.463040 -119.192188   -1.326617
-0.005658   -0.365505  -64.504077
0.85916   -7.463040 -119.192188   -1.326617
-0.005658   -0.143891  -39.448492
1.00000   -7.463040 -119.192188   -1.326617
-0.005658   -0.502534  -20.016746

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    9.928242   75.924765    1.220078
 0.004221    1.348600  152.085011
0.57748    9.928242   75.924765    1.220078
 0.004221    0.838061  125.503093
0.71832    9.928242   75.924765    1.220078
 0.004221    0.329677  106.538967
0.85916    9.928242   75.924765    1.220078
 0.004221    0.261928  102.429309
1.00000    9.928242   75.924765    1.220078
 0.004221    0.991247  105.140973

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.530384 -107.679796   -1.739286
-0.004701   -1.926346 -135.892913
0.57748   -9.530384 -107.679796   -1.739286
-0.004701   -1.197280  -96.731322
0.71832   -9.530384 -107.679796   -1.739286
-0.004701   -0.480234  -71.706554
0.85916   -9.530384 -107.679796   -1.739286
-0.004701   -0.192606  -52.960607
1.00000   -9.530384 -107.679796   -1.739286
-0.004701   -0.703482  -40.554956

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   14.693154   82.427134    0.991901
 0.005728    1.105420  187.495199
0.57748   14.693154   82.427134    0.991901
 0.005728    0.689514  155.914775
0.71832   14.693154   82.427134    0.991901
 0.005728    0.273475  134.019438
0.85916   14.693154   82.427134    0.991901
 0.005728    0.210570  127.916773
1.00000   14.693154   82.427134    0.991901
 0.005728    0.788201  125.671158

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -10.362396 -148.964078   -1.402465
-0.007482   -1.564089 -161.543822
0.57748  -10.362396 -148.964078   -1.402465
-0.007482   -0.976006 -105.440003
0.71832  -10.362396 -148.964078   -1.402465
-0.007482   -0.387885  -73.723843
0.85916  -10.362396 -148.964078   -1.402465
-0.007482   -0.148647  -52.002313
1.00000  -10.362396 -148.964078   -1.402465
-0.007482   -0.558322  -59.631102
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3128

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   13.452797   77.043908    1.532376
 0.005722    1.706628  184.677408
0.57748   13.452797   77.043908    1.532376
 0.005722    1.062185  156.611355
0.71832   13.452797   77.043908    1.532376
 0.005722    0.420522  137.340014
0.85916   13.452797   77.043908    1.532376
 0.005722    0.287590  131.417554
1.00000   13.452797   77.043908    1.532376
 0.005722    1.131939  128.995494

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.948364 -138.697991   -2.016428
-0.007513   -2.249596 -152.486509
0.57748   -9.948364 -138.697991   -2.016428
-0.007513   -1.403734  -96.891265
0.71832   -9.948364 -138.697991   -2.016428
-0.007513   -0.557594  -71.706554
0.85916   -9.948364 -138.697991   -2.016428
-0.007513   -0.217440  -57.418671
1.00000   -9.948364 -138.697991   -2.016428
-0.007513   -0.859887  -65.498300

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   14.693154   82.427134    1.532376
 0.005728    1.706628  187.495199
0.57748   14.693154   82.427134    1.532376
 0.005728    1.062185  156.611355
0.71832   14.693154   82.427134    1.532376
 0.005728    0.420522  137.340014
0.85916   14.693154   82.427134    1.532376
 0.005728    0.287590  131.417554
1.00000   14.693154   82.427134    1.532376
 0.005728    1.131939  128.995494

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -10.362396 -148.964078   -2.016428
-0.007513   -2.249596 -161.543822
0.57748  -10.362396 -148.964078   -2.016428
-0.007513   -1.403734 -105.440003
0.71832  -10.362396 -148.964078   -2.016428
-0.007513   -0.557594  -73.723843
0.85916  -10.362396 -148.964078   -2.016428
-0.007513   -0.217440  -57.418671
1.00000  -10.362396 -148.964078   -2.016428
-0.007513   -0.859887  -65.498300

COMB DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   14.693154   82.427134    1.532376
 0.005728    1.706628  187.495199
0.57748   14.693154   82.427134    1.532376
 0.005728    1.062185  156.611355
0.71832   14.693154   82.427134    1.532376
 0.005728    0.420522  137.340014
0.85916   14.693154   82.427134    1.532376
 0.005728    0.287590  131.417554
1.00000   14.693154   82.427134    1.532376
 0.005728    1.131939  128.995494

COMB DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -10.362396 -148.964078   -2.016428
-0.007513   -2.249596 -161.543822
0.57748  -10.362396 -148.964078   -2.016428
-0.007513   -1.403734 -105.440003
```

```
0.71832   -10.362396  -148.964078    -2.016428
-0.007513   -0.557594   -73.723843
0.85916   -10.362396  -148.964078    -2.016428
-0.007513   -0.217440   -57.418671
1.00000   -10.362396  -148.964078    -2.016428
-0.007513   -0.859687   -65.498300
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING              LOAD              >
                                    3129

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      293 ================== LENGTH =     2.977199

COMB DB-G1-1 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     1.679921        9.608188        0.549258
0.000745    0.308050       10.501783
0.14084     1.679921        9.608188        0.549258
0.000745    0.077731       15.333672
0.28167     1.679921        9.608188        0.549258
0.000745    0.194824       20.297537
0.42251     1.679921        9.608188        0.549258
0.000745    0.485006       25.336877
0.56335     1.679921        9.608188        0.549258
0.000745    0.775282       30.392583

COMB DB-G1-1 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -2.502941      -12.136325      -0.692346
-6.92E-06   -0.385952      -38.665387
0.14084    -2.502941      -12.136325      -0.692346
-6.92E-06   -0.095646      -42.378715
0.28167    -2.502941      -12.136325      -0.692346
-6.92E-06   -0.152585      -46.154804
0.42251    -2.502941      -12.136325      -0.692346
-6.92E-06   -0.382889      -49.945479
0.56335    -2.502941      -12.136325      -0.692346
-6.92E-06   -0.613192      -53.834584

COMB DB-G1-2 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     1.952220       30.402698        0.906647
 0.001523    0.509290       17.446545
0.14084     1.952220       30.402698        0.906647
 0.001523    0.129113       23.531365
0.28167     1.952220       30.402698        0.906647
 0.001523    0.329359       30.051885
0.42251     1.952220       30.402698        0.906647
 0.001523    0.821030       37.639264
0.56335     1.952220       30.402698        0.906647
 0.001523    1.313507       45.738032

COMB DB-G1-2 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -6.996436      -19.938143      -1.174534
-0.000187   -0.656463      -59.645481
0.14084    -6.996436      -19.938143      -1.174534
-0.000187   -0.164030      -69.220006
0.28167    -6.996436      -19.938143      -1.174534
-0.000187   -0.251810      -79.211439
0.42251    -6.996436      -19.938143      -1.174534
-0.000187   -0.631970      -89.687626
0.56335    -6.996436      -19.938143      -1.174534
-0.000187   -1.012124     -101.501854

COMB DB-G1-3 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     1.806298       79.427450        0.988991
 0.001685    0.554988       55.798997
0.14084     1.806298       79.427450        0.988991
 0.001685    0.140164       46.663707
0.28167     1.806298       79.427450        0.988991
 0.001685    0.384639       49.088995
0.42251     1.806298       79.427450        0.988991
 0.001685    0.958626       54.323882
0.56335     1.806298       79.427450        0.988991
 0.001685    1.532846       60.425480

COMB DB-G1-3 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -10.283790     -21.202531      -1.369546
-6.23E-06   -0.764152      -52.396084
0.14084    -10.283790     -21.202531      -1.369546
-6.23E-06   -0.189985      -56.672649
0.28167    -10.283790     -21.202531      -1.369546
-6.23E-06   -0.274347      -72.734147
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING              LOAD              >
                                    3130

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
       T          M2             M3
0.42251    -10.283790     -21.202531      -1.369546
-6.23E-06   -0.689134     -104.586845
0.56335    -10.283790     -21.202531      -1.369546
-6.23E-06   -1.103818     -137.261874

COMB DB-G1-4 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     5.983100       109.188300       0.931298
 0.004876    0.537841       122.068690
0.14084     5.983100       109.188300       0.931298
 0.004876    0.147816       114.791777
0.28167     5.983100       109.188300       0.931298
 0.004876    0.375021       116.862039
0.42251     5.983100       109.188300       0.931298
 0.004876    0.924564       130.577210
0.56335     5.983100       109.188300       0.931298
 0.004876    1.487017       152.783590

COMB DB-G1-4 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -10.958409      -60.877967      -1.341653
-0.003852   -0.763624      -47.004042
0.14084    -10.958409      -60.877967      -1.341653
-0.003852   -0.201795      -52.970490
0.28167    -10.958409      -60.877967      -1.341653
-0.003852   -0.257962      -68.977110
0.42251    -10.958409      -60.877967      -1.341653
-0.003852   -0.648535      -97.624436
0.56335    -10.958409      -60.877967      -1.341653
-0.003852   -1.039020     -136.215967

COMB DB-G2-1 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     0.458254       32.931288        0.351617
 0.000665    0.197379       12.629243
0.14084     0.458254       32.931288        0.351617
 0.000665    0.049849       10.867782
0.28167     0.458254       32.931288        0.351617
 0.000665    0.138853       11.628433
0.42251     0.458254       32.931288        0.351617
 0.000665    0.347377       12.991107
0.56335     0.458254       32.931288        0.351617
 0.000665    0.555937       14.533796

COMB DB-G2-1 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -5.513143      -7.840902       -0.497432
-9.44E-06   -0.278339      -13.655228
0.14084    -5.513143      -7.840902       -0.497432
-9.44E-06   -0.069811      -17.600601
0.28167    -5.513143      -7.840902       -0.497432
-9.44E-06   -0.097505      -29.577513
0.42251    -5.513143      -7.840902       -0.497432
-9.44E-06   -0.244971      -42.427240
0.56335    -5.513143      -7.840902       -0.497432
-9.44E-06   -0.392394      -56.026617

COMB DB-G2-2 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     1.580743       127.901406       0.471516
 0.005739    0.285134       125.940450
0.14084     1.580743       127.901406       0.471516
 0.005739    0.088096       88.777068
0.28167     1.580743       127.901406       0.471516
 0.005739    0.223914       63.904558
0.42251     1.580743       127.901406       0.471516
 0.005739    0.543463       54.857441
0.56335     1.580743       127.901406       0.471516
 0.005739    0.880593       57.349295

COMB DB-G2-2 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -10.714363     -16.233218      -0.804348
-0.004840   -0.469311      -13.173247
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING              LOAD              >
                                    3131

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
       T          M2             M3
0.14084    -10.714363     -16.233218      -0.804348
-0.004840   -0.132761      -13.918243
0.28167    -10.714363     -16.233218      -0.804348
-0.004840   -0.130559      -27.926646
0.42251    -10.714363     -16.233218      -0.804348
-0.004840   -0.328372      -58.501643
0.56335    -10.714363     -16.233218      -0.804348
-0.004840   -0.526070     -102.564291

COMB DB-G2-3 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     2.344544       124.468979       0.847511
 0.005773    0.493991       119.715449
0.14084     2.344544       124.468979       0.847511
 0.005773    0.139163       90.156244
0.28167     2.344544       124.468979       0.847511
 0.005773    0.353518       71.553398
0.42251     2.344544       124.468979       0.847511
 0.005773    0.868113       67.196671
0.56335     2.344544       124.468979       0.847511
 0.005773    1.398593       73.273283

COMB DB-G2-3 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -12.337942     -23.806575      -1.265433
-0.004374   -0.724570      -41.154718
0.14084    -12.337942     -23.806575      -1.265433
-0.004374   -0.194682      -45.234739
0.28167    -12.337942     -23.806575      -1.265433
-0.004374   -0.235526      -61.488332
0.42251    -12.337942     -23.806575      -1.265433
-0.004374   -0.590527      -92.880132
0.56335    -12.337942     -23.806575      -1.265433
-0.004374   -0.945863     -136.234573

COMB DB-G2-4 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     7.580918       105.348301       0.877983
 0.004054    0.505418       105.472880
0.14084     7.580918       105.348301       0.877983
 0.004054    0.137581       106.338550
0.28167     7.580918       105.348301       0.877983
 0.004054    0.352880       117.885028
0.42251     7.580918       105.348301       0.877983
 0.004054    0.872710       138.894987
0.56335     7.580918       105.348301       0.877983
 0.004054    1.402978       166.906716

COMB DB-G2-4 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -10.766017     -74.138668      -1.264839
-0.003540   -0.718927      -39.746229
0.14084    -10.766017     -74.138668      -1.264839
-0.003540   -0.189052      -46.664443
0.28167    -10.766017     -74.138668      -1.264839
-0.003540   -0.242878      -63.897182
0.42251    -10.766017     -74.138668      -1.264839
-0.003540   -0.611097      -93.945523
0.56335    -10.766017     -74.138668      -1.264839
-0.003540   -0.979227     -132.128640

COMB DB-G3-1 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     8.024192       17.943234        0.326994
 1.95E-05    0.184320        2.255816
0.14084     8.024192       17.943234        0.326994
 1.95E-05    0.047207       14.635593
0.28167     8.024192       17.943234        0.326994
 1.95E-05    0.111773       40.722794
0.42251     8.024192       17.943234        0.326994
 1.95E-05    0.281584       67.033855
0.56335     8.024192       17.943234        0.326994
 1.95E-05    0.451417       93.419502
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING              LOAD              >
                                    3132

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -1.514823      -63.057300      -0.405041
-0.001266   -0.227922      -13.508350
0.14084    -1.514823      -63.057300      -0.405041
-0.001266   -0.058011      -17.099754
0.28167    -1.514823      -63.057300      -0.405041
-0.001266   -0.089925      -23.687936
0.42251    -1.514823      -63.057300      -0.405041
-0.001266   -0.227033      -30.699548
0.56335    -1.514823      -63.057300      -0.405041
-0.001266   -0.364141      -38.104796

COMB DB-G3-2 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000    11.246425      102.325729       0.424605
 0.005955    0.264062      114.749993
0.14084    11.246425      102.325729       0.424605
 0.005955    0.086983      109.766249
0.28167    11.246425      102.325729       0.424605
 0.005955    0.181713      113.543997
0.42251    11.246425      102.325729       0.424605
 0.005955    0.437355      134.679154
0.56335    11.246425      102.325729       0.424605
 0.005955    0.714246      169.116281

COMB DB-G3-2 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -5.911110      -87.340409      -0.660738
-0.007288   -0.395030      -12.768254
0.14084    -5.911110      -87.340409      -0.660738
-0.007288   -0.118717      -20.881478
0.28167    -5.911110      -87.340409      -0.660738
-0.007288   -0.116806      -29.188405
0.42251    -5.911110      -87.340409      -0.660738
-0.007288   -0.294817      -42.012882
0.56335    -5.911110      -87.340409      -0.660738
-0.007288   -0.472849      -73.383201

COMB DB-G3-3 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     9.733595       122.166618       0.629820
 0.004664    0.371510       107.755354
0.14084     9.733595       122.166618       0.629820
 0.004664    0.107969       102.484851
0.28167     9.733595       122.166618       0.629820
 0.004664    0.267157       110.660390
0.42251     9.733595       122.166618       0.629820
 0.004664    0.656315       132.165982
0.56335     9.733595       122.166618       0.629820
 0.004664    1.060137       163.380049

COMB DB-G3-3 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -9.492202      -83.557653      -0.963330
-0.005248   -0.556271      -14.594756
0.14084    -9.492202      -83.557653      -0.963330
-0.005248   -0.152886      -19.698005
0.28167    -9.492202      -83.557653      -0.963330
-0.005248   -0.173578      -37.591852
0.42251    -9.492202      -83.557653      -0.963330
-0.005248   -0.437797      -69.941457
0.56335    -9.492202      -83.557653      -0.963330
-0.005248   -0.701856     -113.205868

COMB DB-G3-4 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     8.708701       112.601799       0.858714
 0.004371    0.496722       93.425097
0.14084     8.708701       112.601799       0.858714
 0.004371    0.137091       91.932400
0.28167     8.708701       112.601799       0.858714
 0.004371    0.344589       101.776706
0.42251     8.708701       112.601799       0.858714
 0.004371    0.851556       122.743458
0.56335     8.708701       112.601799       0.858714
 0.004371    1.370686       151.743700
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING              LOAD              >
                                    3133

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -10.927808     -76.772489      -1.238345
-0.004349   -0.706861      -34.993740
0.14084    -10.927808     -76.772489      -1.238345
-0.004349   -0.188067      -43.100745
0.28167    -10.927808     -76.772489      -1.238345
-0.004349   -0.237392      -61.459396
0.42251    -10.927808     -76.772489      -1.238345
-0.004349   -0.597529      -92.391637
0.56335    -10.927808     -76.772489      -1.238345
-0.004349   -0.957592     -132.719994

COMB DL-G1-1 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     2.738686       10.667023        0.835005
 0.000772    0.468886       14.050086
0.14084     2.738686       10.667023        0.835005
 0.000772    0.121145       19.694946
0.28167     2.738686       10.667023        0.835005
 0.000772    0.276424       25.802974
0.42251     2.738686       10.667023        0.835005
 0.000772    0.687789       31.750492
0.56335     2.738686       10.667023        0.835005
 0.000772    1.099487       37.705461

COMB DL-G1-1 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -2.375215      -14.763664      -0.981645
-4.03E-06   -0.546841      -44.219050
0.14084    -2.375215      -14.763664      -0.981645
-4.03E-06   -0.134295      -48.239189
0.28167    -2.375215      -14.763664      -0.981645
-4.03E-06   -0.229064      -52.305426
0.42251    -2.375215      -14.763664      -0.981645
-4.03E-06   -0.578846      -56.399671
0.56335    -2.375215      -14.763664      -0.981645
-4.03E-06   -0.929728      -60.529206

COMB DL-G1-2 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     3.033204       30.811348        1.375964
 0.001486    0.172286       20.731358
0.14084     3.033204       30.811348        1.375964
 0.001486    0.195438       28.688745
0.28167     3.033204       30.811348        1.375964
 0.001486    0.471505       37.280325
0.42251     3.033204       30.811348        1.375964
 0.001486    1.177105       46.396952
0.56335     3.033204       30.811348        1.375964
 0.001486    1.883580       55.936543

COMB DL-G1-2 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -7.270393      -23.908391      -1.684387
-0.000112   -0.941435      -65.514431
0.14084    -7.270393      -23.908391      -1.684387
-0.000112   -0.233669      -75.011279
0.28167    -7.270393      -23.908391      -1.684387
-0.000112   -0.379176      -85.241796
0.42251    -7.270393      -23.908391      -1.684387
-0.000112   -0.955147      -96.572737
0.56335    -7.270393      -23.908391      -1.684387
-0.000112   -1.533524     -108.716562

COMB DL-G1-3 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     2.900416       73.832973        1.539937
 0.001626    0.862181       69.017543
0.14084     2.900416       73.832973        1.539937
 0.001626    0.217238       60.138836
0.28167     2.900416       73.832973        1.539937
 0.001626    0.554837       59.000710
0.42251     2.900416       73.832973        1.539937
 0.001626    1.387450       65.681081
0.56335     2.900416       73.832973        1.539937
 0.001626    2.219549       74.026209
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING              LOAD              >
                                    3134

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -9.888169      -25.658418      -1.984026
-7.95E-06   -1.107615      -57.406705
0.14084    -9.888169      -25.658418      -1.984026
-7.95E-06   -0.274033      -62.921252
0.28167    -9.888169      -25.658418      -1.984026
-7.95E-06   -0.423934      -77.068378
0.42251    -9.888169      -25.658418      -1.984026
-7.95E-06   -1.168592     -104.953119
0.56335    -9.888169      -25.658418      -1.984026
-7.95E-06   -1.716271     -134.369041

COMB DL-G1-4 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     6.450810       97.481591        1.416318
 0.004045    0.806330       127.915756
0.14084     6.450810       97.481591        1.416318
 0.004045    0.213707       123.534461
0.28167     6.450810       97.481591        1.416318
 0.004045    0.533321       125.678926
0.42251     6.450810       97.481591        1.416318
 0.004045    1.326871       141.139741
0.56335     6.450810       97.481591        1.416318
 0.004045    2.129130       163.448412

COMB DL-G1-4 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -10.370538     -61.561793      -1.914718
-0.003015   -1.081958      -51.396994
0.14084    -10.370538     -61.561793      -1.914718
-0.003015   -0.272456      -58.625767
0.28167    -10.370538     -61.561793      -1.914718
-0.003015   -0.387475      -73.264487
0.42251    -10.370538     -61.561793      -1.914718
-0.003015   -0.977758      -99.123581
0.56335    -10.370538     -61.561793      -1.914718
-0.003015   -1.571170     -136.365529

COMB DL-G2-1 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     0.397480       29.665754        0.540886
 0.000623    0.301775       13.227684
0.14084     0.397480       29.665754        0.540886
 0.000623    0.075432       11.483354
0.28167     0.397480       29.665754        0.540886
 0.000623    0.202110       13.033518
0.42251     0.397480       29.665754        0.540886
 0.000623    0.508974       15.434524
0.56335     0.397480       29.665754        0.540886
 0.000623    0.815506       18.185576

COMB DL-G2-1 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -5.820919      -8.846786       -0.730508
-5.42E-06   -0.409674      -12.583000
0.14084    -5.820919      -8.846786       -0.730508
-5.42E-06   -0.102781      -17.561167
0.28167    -5.820919      -8.846786       -0.730508
-5.42E-06   -0.149817      -27.646724
0.42251    -5.820919      -8.846786       -0.730508
-5.42E-06   -0.376210      -39.013601
0.56335    -5.820919      -8.846786       -0.730508
-5.42E-06   -0.603750      -50.860925

COMB DL-G2-2 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     1.528060       112.396083       0.763353
 0.004963    0.446357       129.022376
0.14084     1.528060       112.396083       0.763353
 0.004963    0.126945       94.615809
0.28167     1.528060       112.396083       0.763353
 0.004963    0.316145       66.941807
0.42251     1.528060       112.396083       0.763353
 0.004963    0.782865       62.071418
0.56335     1.528060       112.396083       0.763353
 0.004963    1.261980       65.000588
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING              LOAD              >
                                    3135

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -10.180413     -17.663689      -1.145784
-0.004125   -0.660038      -12.109083
0.14084    -10.180413     -17.663689      -1.145784
-0.004125   -0.179613      -13.403727
0.28167    -10.180413     -17.663689      -1.145784
-0.004125   -0.207785      -25.269170
0.42251    -10.180413     -17.663689      -1.145784
-0.004125   -0.523380      -51.067760
0.56335    -10.180413     -17.663689      -1.145784
-0.004125   -0.841107      -93.587211

COMB DL-G2-3 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     2.580615       111.447263       1.325171
 0.005098    0.759295       124.867775
0.14084     2.580615       111.447263       1.325171
 0.005098    0.204578       98.248261
0.28167     2.580615       111.447263       1.325171
 0.005098    0.500817       79.596239
0.42251     2.580615       111.447263       1.325171
 0.005098    1.244331       71.900747
0.56335     2.580615       111.447263       1.325171
 0.005098    1.999305       84.997555

COMB DL-G2-3 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -11.812528     -26.962378      -1.803028
-0.003734   -1.024964      -43.159963
0.14084    -11.812528     -26.962378      -1.803028
-0.003734   -0.268342      -48.139249
0.28167    -11.812528     -26.962378      -1.803028
-0.003734   -0.362802      -63.028213
0.42251    -11.812528     -26.962378      -1.803028
-0.003734   -0.914210      -90.273850
0.56335    -11.812528     -26.962378      -1.803028
-0.003734   -1.468380     -132.574515

COMB DL-G2-4 ------------------ MAX

REL DIST          P              V2              V3
       T          M2             M3
0.00000     7.114309       95.779308        1.288544
 0.003399    0.731635       110.761620
0.14084     7.114309       95.779308        1.288544
 0.003399    0.192491       112.981016
0.28167     7.114309       95.779308        1.288544
 0.003399    0.501159       122.028197
0.42251     7.114309       95.779308        1.288544
 0.003399    1.250379       143.276846
0.56335     7.114309       95.779308        1.288544
 0.003399    2.006760       170.248178

COMB DL-G2-4 ------------------ MIN

REL DIST          P              V2              V3
       T          M2             M3
0.00000    -10.454699     -72.156485      -1.804728
-0.002914   -1.019835      -42.332337
0.14084    -10.454699     -72.156485      -1.804728
-0.002914   -0.262746      -50.655119
```

```
0.28167   -10.454699   -72.156485   -1.804728
-0.002914   -0.352953   -67.294492
0.42251   -10.454699   -72.156485   -1.804728
-0.002914   -0.890209   -94.749720
0.56335   -10.454699   -72.156485   -1.804728
-0.002914   -1.430315  -131.656206

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.964676   21.586016    0.337581
 1.44E-05   0.188645    2.580809
0.14084    6.964676   21.586016    0.337581
 1.44E-05   0.047636   13.003353
0.28167    6.964676   21.586016    0.337581
 1.44E-05   0.148407   35.736372
0.42251    6.964676   21.586016    0.337581
 1.44E-05   0.374219   59.017998
0.56335    6.964676   21.586016    0.337581
 1.44E-05   0.600572   82.571838
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                 LOAD                >
                                            3136

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -2.125484  -57.077755   -0.539299
-0.001237   -0.303579   -25.301058
0.14084   -2.125484  -57.077755   -0.539299
-0.001237   -0.077942   -24.463207
0.28167   -2.125484  -57.077755   -0.539299
-0.001237   -0.092667   -31.971955
0.42251   -2.125484  -57.077755   -0.539299
-0.001237   -0.233816   -40.284948
0.56335   -2.125484  -57.077755   -0.539299
-0.001237   -0.375600   -48.946624

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.866046  102.852231    0.492922
 0.005936   0.304177  122.177589
0.14084    9.866046  102.852231    0.492922
 0.005936   0.099282  114.080523
0.28167    9.866046  102.852231    0.492922
 0.005936   0.237398  113.432765
0.42251    9.866046  102.852231    0.492922
 0.005936   0.580824  129.478605
0.56335    9.866046  102.852231    0.492922
 0.005936   0.943818  158.499339

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.500718   -79.195395   -0.869783
-0.007208   -0.515411   -20.392012
0.14084   -6.500718   -79.195395   -0.869783
-0.007208   -0.152211   -26.793318
0.28167   -6.500718   -79.195395   -0.869783
-0.007208   -0.131022   -36.535917
0.42251   -6.500718   -79.195395   -0.869783
-0.007208   -0.331580   -46.577162
0.56335   -6.500718   -79.195395   -0.869783
-0.007208   -0.533786   -87.920105

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.580130   117.811540    0.841438
 0.004768   0.490659   120.440357
0.14084    8.580130   117.811540    0.841438
 0.004768   0.138751   109.067889
0.28167    8.580130   117.811540    0.841438
 0.004768   0.368493   109.690321
0.42251    8.580130   117.811540    0.841438
 0.004768   0.915774   127.690518
0.56335    8.580130   117.811540    0.841438
 0.004768   1.476419   155.414919

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.706366   -76.444795   -1.339657
-0.005397   -0.770307   -20.006970
0.14084   -9.706366   -76.444795   -1.339657
-0.005397   -0.209386   -24.689165
0.28167   -9.706366   -76.444795   -1.339657
-0.005397   -0.228250   -42.362381
0.42251   -9.706366   -76.444795   -1.339657
-0.005397   -0.576377   -70.454751
0.56335   -9.706366   -76.444795   -1.339657
-0.005397   -0.926754  -115.228536

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.788220   109.708310    1.203856
 0.004471   0.689843   105.170665
0.14084    7.788220   109.708310    1.203856
 0.004471   0.136127   99.173301
0.28167    7.788220   109.708310    1.203856
 0.004471   0.482241   103.079075
0.42251    7.788220   109.708310    1.203856
 0.004471   1.201447   121.551420
0.56335    7.788220   109.708310    1.203856
 0.004471   1.931963   148.123747
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                 LOAD                >
                                            3137

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.380620   -72.230304   -1.744138
-0.004483   -0.993137   -40.553716
0.14084   -11.380620   -72.230304   -1.744138
-0.004483   -0.262050   -48.513629
0.28167   -11.380620   -72.230304   -1.744138
-0.004483   -0.329361   -67.150038
0.42251   -11.380620   -72.230304   -1.744138
-0.004483   -0.830031   -95.052384
0.56335   -11.380620   -72.230304   -1.744138
-0.004483   -1.333271  -136.995096

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.246425   127.901406    0.988991
 0.005955   0.554988   125.940450
0.14084   11.246425   127.901406    0.988991
 0.005955   0.147816   114.791777
0.28167   11.246425   127.901406    0.988991
 0.005955   0.384639   117.885028
0.42251   11.246425   127.901406    0.988991
 0.005955   0.958626   138.894987
0.56335   11.246425   127.901406    0.988991
 0.005955   1.532846   169.116281

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -12.337942   -87.340409   -1.369546
-0.007288   -0.764152   -59.645481
0.14084  -12.337942   -87.340409   -1.369546
-0.007288   -0.201795   -69.220006

0.28167   -12.337942   -87.340409   -1.369546
-0.007288   -0.274347   -79.211439
0.42251   -12.337942   -87.340409   -1.369546
-0.007288   -0.689134  -104.586845
0.56335   -12.337942   -87.340409   -1.369546
-0.007288   -1.103818  -137.261874

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.866046   117.811540    1.539937
 0.005936   0.862181   129.022376
0.14084    9.866046   117.811540    1.539937
 0.005936   0.217238   123.534461
0.28167    9.866046   117.811540    1.539937
 0.005936   0.554837   125.679926
0.42251    9.866046   117.811540    1.539937
0.56335    9.866046   117.811540    1.539937
 0.005936   2.219549   170.248178

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -11.812528   -79.195395   -1.984026
-0.007208   -1.107615   -65.514431
0.14084  -11.812528   -79.195395   -1.984026
-0.007208   -0.278456   -75.011279
0.28167  -11.812528   -79.195395   -1.984026
-0.007208   -0.423934   -85.241796
0.42251  -11.812528   -79.195395   -1.984026
-0.007208   -1.068592  -104.953119
0.56335  -11.812528   -79.195395   -1.984026
-0.007208   -1.716271  -136.995096

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.246425   127.901406    1.539937
 0.005955   0.862181   129.022376
0.14084   11.246425   127.901406    1.539937
 0.005955   0.217238   123.534461
0.28167   11.246425   127.901406    1.539937
 0.005955   0.554837   125.679926
0.42251   11.246425   127.901406    1.539937
 0.005955   1.387450   143.276846
0.56335   11.246425   127.901406    1.539937
 0.005955   2.219549   170.248178
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                 LOAD                >
                                            3138

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -12.337942   -87.340409   -1.984026
-0.007288   -1.107615   -65.514431
0.14084  -12.337942   -87.340409   -1.984026
-0.007288   -0.278456   -75.011279
0.28167  -12.337942   -87.340409   -1.984026
-0.007288   -0.423934   -85.241796
0.42251  -12.337942   -87.340409   -1.984026
-0.007288   -1.068592  -104.953119
0.56335  -12.337942   -87.340409   -1.984026
-0.007288   -1.716271  -137.261874

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.246425   127.901406    1.539937
 0.005955   0.862181   129.022376
0.14084   11.246425   127.901406    1.539937
 0.005955   0.217238   123.534461
0.28167   11.246425   127.901406    1.539937
 0.005955   0.554837   125.679926
0.42251   11.246425   127.901406    1.539937
 0.005955   1.387450   143.276846
0.56335   11.246425   127.901406    1.539937
 0.005955   2.219549   170.248178

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -12.337942   -87.340409   -1.984026
-0.007288   -1.107615   -65.514431
0.14084  -12.337942   -87.340409   -1.984026
-0.007288   -0.278456   -75.011279
0.28167  -12.337942   -87.340409   -1.984026
-0.007288   -0.423934   -85.241796
0.42251  -12.337942   -87.340409   -1.984026
-0.007288   -1.068592  -104.953119
0.56335  -12.337942   -87.340409   -1.984026
-0.007288   -1.716271  -137.261874

ELEM      294 ================== LENGTH
=    2.977215

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    0.556305   16.339150    0.542211
 0.000828   0.604703    2.445624
0.57749    0.556305   16.339150    0.542211
 0.000828   0.377356    2.380324
0.71832    0.556305   16.339150    0.542211
 0.000828   0.150015    2.858999
0.85916    0.556305   16.339150    0.542211
 0.000828   0.094766    5.392176
1.00000    0.556305   16.339150    0.542211
 0.000828   0.370973    8.441994

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -4.283713   -7.987410   -0.658736
-1.35E-05   -0.733868   -23.706781
0.57749   -4.283713   -7.987410   -0.658736
-1.35E-05   -0.457659   -29.934673
0.71832   -4.283713   -7.987410   -0.658736
-1.35E-05   -0.181473   -36.227769
0.85916   -4.283713   -7.987410   -0.658736
-1.35E-05   -0.077337   -42.522355
1.00000   -4.283713   -7.987410   -0.658736
-1.35E-05   -0.304702   -48.934635

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    1.013828   41.302084    0.894604
 0.001645   0.996919   30.016757
0.57749    1.013828   41.302084    0.894604
 0.001645   0.621938   21.980050
0.71832    1.013828   41.302084    0.894604
 0.001645   0.247390   15.082115
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                 LOAD                >
                                            3139

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.85916    1.013828   41.302084    0.894604
 0.001645   0.158127   12.068393
1.00000    1.013828   41.302084    0.894604
 0.001645   0.619719   15.255993

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -8.549988  -13.668956   -1.100896
-0.000314   -1.226807   -30.116558
0.57749   -8.549988  -13.668956   -1.100896
-0.000314   -0.765219   -36.723588
0.71832   -8.549988  -13.668956   -1.100896
-0.000314   -0.304332   -45.837656
0.85916   -8.549988  -13.668956   -1.100896
-0.000314   -0.128432   -57.585870
1.00000   -8.549988  -13.668956   -1.100896
-0.000314   -0.503559   -69.991687

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    1.051568   94.545687    0.970764
 0.001283   1.085886  174.778809
0.57749    1.051568   94.545687    0.970764
 0.001283   0.675807  143.485516
0.71832    1.051568   94.545687    0.970764
 0.001283   0.268736  112.753187
0.85916    1.051568   94.545687    0.970764
 0.001283   0.178346   84.951754
1.00000    1.051568   94.545687    0.970764
 0.001283   0.702353   61.040238

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -11.904529  -10.701541   -1.250072
-5.72E-05   -1.394333   -27.904419
0.57749   -11.904529  -10.701541   -1.250072
-5.72E-05   -0.870202   -34.552126
0.71832   -11.904529  -10.701541   -1.250072
-5.72E-05   -0.346067   -42.477020
0.85916   -11.904529  -10.701541   -1.250072
-5.72E-05    0.138292   -52.160418
1.00000   -11.904529  -10.701541   -1.250072
-5.72E-05   -0.545311   -62.246494

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    7.698883   84.302025    0.924280
 0.004598   1.016489  163.319135
0.57749    7.698883   84.302025    0.924280
 0.004598   0.631380  137.440206
0.71832    7.698883   84.302025    0.924280
 0.004598   0.246277  120.412130
0.85916    7.698883   84.302025    0.924280
 0.004598   0.189879  118.443858
1.00000    7.698883   84.302025    0.924280
 0.004598   0.703004  131.352999

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665  -10.249964  -93.173624   -1.224030
-0.004049   -1.350639   -84.949277
0.57749  -10.249964  -93.173624   -1.224030
-0.004049   -0.837807   -59.881023
0.71832  -10.249964  -93.173624   -1.224030
-0.004049   -0.338231   -47.988181
0.85916  -10.249964  -93.173624   -1.224030
-0.004049   -0.147285   -44.821179
1.00000  -10.249964  -93.173624   -1.224030
-0.004049   -0.534502   -54.572050

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    0.540741   39.584728    0.345188
 0.000595   0.384952   69.588968
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                 LOAD                >
                                            3140

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.57749    0.540741   39.584728    0.345188
 0.000595   0.240217   53.553119
0.71832    0.540741   39.584728    0.345188
 0.000595   0.095478   37.933544
0.85916    0.540741   39.584728    0.345188
 0.000595   0.063020   22.995479
1.00000    0.540741   39.584728    0.345188
 0.000595   0.250229   13.891092

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -5.255181   -3.122616   -0.446675
-0.000182   -0.498959   -6.853291
0.57749   -5.255181   -3.122616   -0.446675
-0.000182   -0.311631   -5.774590
0.71832   -5.255181   -3.122616   -0.446675
-0.000182   -0.124387   -6.275881
0.85916   -5.255181   -3.122616   -0.446675
-0.000182   -0.049196   -9.069011
1.00000   -5.255181   -3.122616   -0.446675
-0.000182   -0.193968  -12.419641

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    4.620607   88.223650    0.461968
 0.005178   0.499876  209.646860
0.57749    4.620607   88.223650    0.461968
 0.005178   0.305518  175.524011
0.71832    4.620607   88.223650    0.461968
 0.005178   0.126681  151.668988
0.85916    4.620607   88.223650    0.461968
 0.005178   0.116547  142.435196
1.00000    4.620607   88.223650    0.461968
 0.005178   0.401681  137.112012

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -8.096727  -61.262056   -0.680328
-0.004934   -0.740283   -26.061461
0.57749   -8.096727  -61.262056   -0.680328
-0.004934   -0.455574    -7.074713
0.71832   -8.096727  -61.262056   -0.680328
-0.004934   -0.189012    -6.138103
0.85916   -8.096727  -61.262056   -0.680328
-0.004934   -0.086783    -8.811690
1.00000   -8.096727  -61.262056   -0.680328
-0.004934   -0.280005   -12.262566

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    4.569598   93.882651    0.833380
 0.005308   0.911947  187.858699
0.57749    4.569598   93.882651    0.833380
 0.005308   0.565530  157.919348
0.71832    4.569598   93.882651    0.833380
 0.005308   0.229502  137.193525
0.85916    4.569598   93.882651    0.833380
 0.005308   0.178159  131.217730
1.00000    4.569598   93.882651    0.833380
 0.005308   0.649101  128.694845

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665  -10.826721   -60.939198   -1.123390
-0.004447   -1.235933   -34.944932
0.57749  -10.826721   -60.939198   -1.123390
-0.004447   -0.765379   -24.259788

0.71832  -10.826721   -60.939198   -1.123390
-0.004447   -0.311225   -29.637995
0.85916  -10.826721   -60.939198   -1.123390
-0.004447   -0.137692   -37.913812
1.00000  -10.826721   -60.939198   -1.123390
-0.004447   -0.486770   -46.807041
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                 LOAD                >
                                            3141

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    9.631709   83.292044    0.878188
 0.003758   0.967505  161.789938
0.57749    9.631709   83.292044    0.878188
 0.003758   0.601261  134.933237
0.71832    9.631709   83.292044    0.878188
 0.003758   0.241832  114.677820
0.85916    9.631709   83.292044    0.878188
 0.003758   0.178078  105.952940
1.00000    9.631709   83.292044    0.878188
 0.003758   0.665180  115.503776

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -9.506213  -103.475668   -1.161864
-0.003642   -1.284066  -110.328528
0.57749   -9.506213  -103.475668   -1.161864
-0.003642   -0.797222   -78.330137
0.71832   -9.506213  -103.475668   -1.161864
-0.003642   -0.321075   -57.076197
0.85916   -9.506213  -103.475668   -1.161864
-0.003642   -0.138031   -37.985053
1.00000   -9.506213  -103.475668   -1.161864
-0.003642   -0.506038   -43.325493

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665    9.393357    9.800529    0.347983
 7.25E-06   0.387046   11.339539
0.57749    9.393357    9.800529    0.347983
 7.25E-06   0.241140    7.587745
0.71832    9.393357    9.800529    0.347983
 7.25E-06   0.095250    4.239365
0.85916    9.393357    9.800529    0.347983
 7.25E-06   0.060483    3.361858
1.00000    9.393357    9.800529    0.347983
 7.25E-06   0.235835    2.617289

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -0.776310   -75.352829   -0.417978
-0.001030   -0.465190  -138.311819
0.57749   -0.776310   -75.352829   -0.417978
-0.001030   -0.289931  -106.762474
0.71832   -0.776310   -75.352829   -0.417978
-0.001030   -0.114685   -75.238230
0.85916   -0.776310   -75.352829   -0.417978
-0.001030    0.050886   -43.718985
1.00000   -0.776310   -75.352829   -0.417978
-0.001030   -0.196590   -12.227505

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665   15.872070   35.351113    0.447716
 0.005777   0.474550   90.045463
0.57749   15.872070   35.351113    0.447716
 0.005777   0.290925   78.747275
0.71832   15.872070   35.351113    0.447716
 0.005777   0.121337   80.023729
0.85916   15.872070   35.351113    0.447716
 0.005777   0.113857   99.949092
1.00000   15.872070   35.351113    0.447716
 0.005777   0.373069  121.381304

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -2.105827  -163.510957   -0.618040
-0.007145   -0.664547  -178.767814
0.57749   -2.105827  -163.510957   -0.618040
-0.007145   -0.406058  -118.370579
0.71832   -2.105827  -163.510957   -0.618040
-0.007145   -0.169723   -78.269379
0.85916   -2.105827  -163.510957   -0.618040
-0.007145   -0.090505   -40.242681
1.00000   -2.105827  -163.510957   -0.618040
-0.007145   -0.277679   -10.141948
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                 LOAD                >
                                            3142

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665   13.626804   79.587895    0.643634
 0.004137   0.700761  186.831452
0.57749   13.626804   79.587895    0.643634
 0.004137   0.433675  156.074685
0.71832   13.626804   79.587895    0.643634
 0.004137   0.176199  134.027684
0.85916   13.626804   79.587895    0.643634
 0.004137   0.143110  124.029352
1.00000   13.626804   79.587895    0.643634
 0.004137   0.512573  117.940322

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -6.653446  -134.014552   -0.881333
-0.005151   -0.966410  -161.240738
0.57749   -6.653446  -134.014552   -0.881333
-0.005151   -0.597313  -110.527339
0.71832   -6.653446  -134.014552   -0.881333
-0.005151   -0.243324   -73.794903
0.85916   -6.653446  -134.014552   -0.881333
-0.005151   -0.110169   -38.560430
1.00000   -6.653446  -134.014552   -0.881333
-0.005151   -0.379638   -11.571045

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43665   11.710521   82.138038    0.865631
 0.003971   0.951258  163.105953
0.57749   11.710521   82.138038    0.865631
 0.003971   0.590601  134.552793
0.71832   11.710521   82.138038    0.865631
 0.003971   0.237912  114.094818
0.85916   11.710521   82.138038    0.865631
 0.003971   0.177072  105.507921
1.00000   11.710521   82.138038    0.865631
 0.003971   0.655596  101.247717

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43665   -8.796322  -115.413555   -1.141299
-0.004305   -1.259255  -140.228807
0.57749   -8.796322  -115.413555   -1.141299
-0.004305   -0.781086  -101.583389
```

0.71832 -8.796322 -115.413555 -1.141299
-0.004305 -0.315438 -75.446260
0.85916 -8.796322 -115.413555 -1.141299
-0.004305 -0.138683 -51.830223
1.00000 -8.796322 -115.413555 -1.141299
-0.004305 -0.501328 -35.420313

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	0.720224	19.821269	0.745764
0.000787	0.831771	2.844462	
0.57749	0.720224	19.821269	0.745764
0.000787	0.518444	2.906232	
0.71832	0.720224	19.821269	0.745764
0.000787	0.205765	4.791219	
0.85916	0.720224	19.821269	0.745764
0.000787	0.129002	8.508813	
1.00000	0.720224	19.821269	0.745764
0.000787	0.508844	12.496796	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-4.318256	-10.207271	-0.903979
-9.81E-06	-1.007366	-30.120215	
0.57749	-4.318256	-10.207271	-0.903979
-9.81E-06	-0.628156	-35.216326	
0.71832	-4.318256	-10.207271	-0.903979
-9.81E-06	-0.249256	-41.892035	
0.85916	-4.318256	-10.207271	-0.903979
-9.81E-06	-0.104830	-49.776374	
1.00000	-4.318256	-10.207271	-0.903979
-9.81E-06	-0.417376	-57.764867	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3143

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.174039	46.304901	1.245255
0.001457	1.386461	32.042548	
0.57749	1.174039	46.304901	1.245255
0.001457	0.863459	23.485407	
0.71832	1.174039	46.304901	1.245255
0.001457	0.341941	17.484002	
0.85916	1.174039	46.304901	1.245255
0.001457	0.212490	15.637495	
1.00000	1.174039	46.304901	1.245255
0.001457	0.842963	19.292277	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-8.681465	-15.824830	-1.501113
-0.000246	-1.674554	-36.790527	
0.57749	-8.681465	-15.824830	-1.501113
-0.000246	-1.044946	-42.945245	
0.71832	-8.681465	-15.824830	-1.501113
-0.000246	-0.416113	-52.458159	
0.85916	-8.681465	-15.824830	-1.501113
-0.000246	-0.177267	-64.885680	
1.00000	-8.681465	-15.824830	-1.501113
-0.000246	-0.699314	-80.029000	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.256609	92.825156	1.360984
0.001211	1.515696	176.370941	
0.57749	1.256609	92.825156	1.360984
0.001211	0.943729	147.486584	
0.71832	1.256609	92.825156	1.360984
0.001211	0.373167	120.613887	
0.85916	1.256609	92.825156	1.360984
0.001211	0.240476	97.042308	
1.00000	1.256609	92.825156	1.360984
0.001211	0.959561	77.330666	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-11.345595	-14.159264	-1.711846
-7.53E-05	-1.911288	-34.065567	
0.57749	-11.345595	-14.159264	-1.711846
-7.53E-05	-1.192705	-39.791256	
0.71832	-11.345595	-14.159264	-1.711846
-7.53E-05	-0.474660	-47.888025	
0.85916	-11.345595	-14.159264	-1.711846
-7.53E-05	-0.192437	-58.482587	
1.00000	-11.345595	-14.159264	-1.711846
-7.53E-05	-0.762553	-70.897929	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	6.973626	84.125595	1.246189
0.003769	1.374996	169.651222	
0.57749	6.973626	84.125595	1.246189
0.003769	0.852530	145.223984	
0.71832	6.973626	84.125595	1.246189
0.003769	0.340413	129.824426	
0.85916	6.973626	84.125595	1.246189
0.003769	0.244598	129.232623	
1.00000	6.973626	84.125595	1.246189
0.003769	0.930718	141.331773	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.764301	-84.280917	-1.635953
-0.003238	-1.813646	-83.118891	
0.57749	-9.764301	-84.280917	-1.635953
-0.003238	-1.127171	-59.625938	
0.71832	-9.764301	-84.280917	-1.635953
-0.003238	-0.452631	-50.438739	
0.85916	-9.764301	-84.280917	-1.635953
-0.003238	-0.190563	-50.490737	
1.00000	-9.764301	-84.280917	-1.635953
-0.003238	-0.711782	-62.375756	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3144

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	0.550054	37.026336	0.490734
0.000506	0.545210	68.076092	
0.57749	0.550054	37.026336	0.490734
0.000506	0.339280	53.008696	
0.71832	0.550054	37.026336	0.490734
0.000506	0.133375	38.504387	
0.85916	0.550054	37.026336	0.490734
0.000506	0.083378	25.319131	
1.00000	0.550054	37.026336	0.490734
0.000506	0.336687	15.750138	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-5.125650	-3.431692	-0.603915
-0.000195	-0.675715	-6.590189	
0.57749	-5.125650	-3.431692	-0.603915
-0.000195	-0.422314	-6.211958	

0.71832 -5.125650 -3.431692 -0.603915
-0.000195 -0.168601 -6.798819
0.85916 -5.125650 -3.431692 -0.603915
-0.000195 -0.070465 -8.415819
1.00000 -5.125650 -3.431692 -0.603915
-0.000195 -0.276210 -11.813416

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	4.142763	81.656924	0.655746
0.004496	0.709557	213.033501	
0.57749	4.142763	81.656924	0.655746
0.004496	0.435683	181.619349	
0.71832	4.142763	81.656924	0.655746
0.004496	0.176709	159.652246	
0.85916	4.142763	81.656924	0.655746
0.004496	0.146664	149.878219	
1.00000	4.142763	81.656924	0.655746
0.004496	0.529638	143.776910	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-7.450680	-53.234059	-0.912442
-0.004287	-1.001322	-26.142456	
0.57749	-7.450680	-53.234059	-0.912442
-0.004287	-0.618256	-7.084634	
0.71832	-7.450680	-53.234059	-0.912442
-0.004287	-0.235272	-6.420534	
0.85916	-7.450680	-53.234059	-0.912442
-0.004287	-0.113437	-8.148074	
1.00000	-7.450680	-53.234059	-0.912442
-0.004287	-0.387597	-11.805342	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	4.085809	91.318973	1.169931
0.004646	1.284685	190.762299	
0.57749	4.085809	91.318973	1.169931
0.004646	0.794564	163.450469	
0.71832	4.085809	91.318973	1.169931
0.004646	0.318145	145.401359	
0.85916	4.085809	91.318973	1.169931
0.004646	0.230388	140.115436	
1.00000	4.085809	91.318973	1.169931
0.004646	0.867079	137.602831	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-10.266762	-55.250003	-1.516307
-0.003865	-1.676503	-37.848862	
0.57749	-10.266762	-55.250003	-1.516307
-0.003865	-1.040107	-26.377107	
0.71832	-10.266762	-55.250003	-1.516307
-0.003865	-0.419832	-32.112524	
0.85916	-10.266762	-55.250003	-1.516307
-0.003865	-0.184469	-41.186828	
1.00000	-10.266762	-55.250003	-1.516307
-0.003865	-0.577474	-51.604984	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3145

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	8.595038	82.293230	1.155992
0.003117	1.274379	164.173218	
0.57749	8.595038	82.293230	1.155992
0.003117	0.789757	139.062918	
0.71832	8.595038	82.293230	1.155992
0.003117	0.314083	120.636012	
0.85916	8.595038	82.293230	1.155992
0.003117	0.227316	113.314662	
1.00000	8.595038	82.293230	1.155992
0.003117	0.870472	124.986065	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-8.959536	-94.930065	-1.533320
-0.002984	-1.700904	-103.840865	
0.57749	-8.959536	-94.930065	-1.533320
-0.002984	-1.057319	-73.753396	
0.71832	-8.959536	-94.930065	-1.533320
-0.002984	-0.424068	-55.106123	
0.85916	-8.959536	-94.930065	-1.533320
-0.002984	-0.176607	-41.167699	
1.00000	-8.959536	-94.930065	-1.533320
-0.002984	-0.660139	-48.708964	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	8.506405	11.734660	0.370963
4.27E-06	0.409885	12.279429	
0.57749	8.506405	11.734660	0.370963
4.27E-06	0.254540	7.715859	
0.71832	8.506405	11.734660	0.370963
4.27E-06	0.099400	4.757557	
0.85916	8.506405	11.734660	0.370963
4.27E-06	0.073274	3.776002	
1.00000	8.506405	11.734660	0.370963
4.27E-06	0.285448	3.069144	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-0.664247	-72.107676	-0.507226
-0.000955	-0.564498	-135.760352	
0.57749	-0.664247	-72.107676	-0.507226
-0.000955	-0.351834	-105.737525	
0.71832	-0.664247	-72.107676	-0.507226
-0.000955	-0.139214	-77.171367	
0.85916	-0.664247	-72.107676	-0.507226
-0.000955	-0.054763	-49.858648	
1.00000	-0.664247	-72.107676	-0.507226
-0.000955	-0.209649	-22.633212	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	14.735153	35.712763	0.487614
0.005810	0.512620	96.067053	
0.57749	14.735159	35.712763	0.487614
0.005810	0.309859	84.916330	
0.71832	14.735159	35.712763	0.487614
0.005810	0.128355	88.297000	
0.85916	14.735159	35.712763	0.487614
0.005810	0.137158	109.285396	
1.00000	14.735159	35.712763	0.487614
0.005810	0.452460	131.642495	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-1.751832	-156.105597	-0.753651
-0.007093	-0.811965	-175.371957	
0.57749	-1.751832	-156.105597	-0.753651
-0.007093	-0.496256	-113.340072	
0.71832	-1.751832	-156.105597	-0.753651
-0.007093	-0.205138	-77.702394	
0.85916	-1.751832	-156.105597	-0.753651
-0.007093	-0.100250	-45.616494	
1.00000	-1.751832	-156.105597	-0.753651
-0.007093	-0.303445	-16.369811	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3146

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	12.715573	73.093662	0.784809
0.004369	0.850876	184.924746	
0.57749	12.715573	73.093662	0.784809
0.004369	0.522340	157.239042	
0.71832	12.715573	73.093662	0.784809
0.004369	0.209970	140.328759	
0.85916	12.715573	73.093662	0.784809
0.004369	0.180023	136.483852	
1.00000	12.715573	73.093662	0.784809
0.004369	0.652057	133.914342	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-5.789121	-129.847096	-1.126905
-0.005414	-1.237775	-157.011578	
0.57749	-5.789121	-129.847096	-1.126905
-0.005414	-0.764827	-105.119089	
0.71832	-5.789121	-129.847096	-1.126905
-0.005414	-0.309863	-72.491489	
0.85916	-5.789121	-129.847096	-1.126905
-0.005414	-0.133740	-42.666786	
1.00000	-5.789121	-129.847096	-1.126905
-0.005414	-0.461754	-15.761779	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	10.947114	79.187401	1.116892
0.004120	1.224222	162.018731	
0.57749	10.947114	79.187401	1.116892
0.004120	0.756109	135.724903	
0.71832	10.947114	79.187401	1.116892
0.004120	0.301476	119.764818	
0.85916	10.947114	79.187401	1.116892
0.004120	0.227064	116.353952	
1.00000	10.947114	79.187401	1.116892
0.004120	0.851823	116.139264	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-8.229859	-113.000055	-1.489647
-0.004437	-1.646367	-138.299526	
0.57749	-8.229859	-113.000055	-1.489647
-0.004437	-1.021366	-98.471981	
0.71832	-8.229859	-113.000055	-1.489647
-0.004437	-0.411318	-75.790607	
0.85916	-8.229859	-113.000055	-1.489647
-0.004437	-0.177824	-56.860526	
1.00000	-8.229859	-113.000055	-1.489647
-0.004437	-0.645344	-41.348142	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	15.872070	94.545687	0.970764
0.005777	1.082866	209.641660	
0.57749	15.872070	94.545687	0.970764
0.005777	0.675807	175.524011	
0.71832	15.872070	94.545687	0.970764
0.005777	0.268736	151.668988	
0.85916	15.872070	94.545687	0.970764
0.005777	0.189879	142.435196	
1.00000	15.872070	94.545687	0.970764
0.005777	0.703004	137.112012	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-11.904529	-163.510957	-1.250072
-0.007145	-1.394333	-178.767814	
0.57749	-11.904529	-163.510957	-1.250072
-0.007145	-0.870202	-118.370579	
0.71832	-11.904529	-163.510957	-1.250072
-0.007145	-0.346067	-78.269379	
0.85916	-11.904529	-163.510957	-1.250072
-0.007145	-0.147285	-57.585870	
1.00000	-11.904529	-163.510957	-1.250072
-0.007145	-0.545311	-69.991687	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3147

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	14.735159	92.825156	1.360984
0.005810	1.515696	213.033501	
0.57749	14.735159	92.825156	1.360984
0.005810	0.943729	181.619349	
0.71832	14.735159	92.825156	1.360984
0.005810	0.373167	159.652246	
0.85916	14.735159	92.825156	1.360984
0.005810	0.244598	149.878219	
1.00000	14.735159	92.825156	1.360984
0.005810	0.959561	143.776910	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-11.345595	-156.105597	-1.711846
-0.007093	-1.911288	-175.371957	
0.57749	-11.345595	-156.105597	-1.711846
-0.007093	-1.192705	-113.340072	
0.71832	-11.345595	-156.105597	-1.711846
-0.007093	-0.474660	-77.702394	
0.85916	-11.345595	-156.105597	-1.711846
-0.007093	-0.192437	-64.855880	
1.00000	-11.345595	-156.105597	-1.711846
-0.007093	-0.762553	-80.029000	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	15.872070	94.545687	1.360984
0.005810	1.515696	213.033501	
0.57749	15.872070	94.545687	1.360984
0.005810	0.943729	181.619349	
0.71832	15.872070	94.545687	1.360984
0.005810	0.373167	159.652246	
0.85916	15.872070	94.545687	1.360984
0.005810	0.244598	149.878219	
1.00000	15.872070	94.545687	1.360984
0.005810	0.959561	143.776910	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-11.904529	-163.510957	-1.711846
-0.007145	-1.911288	-178.767814	
0.57749	-11.904529	-163.510957	-1.711846
-0.007145	-1.192705	-118.370579	
0.71832	-11.904529	-163.510957	-1.711846
-0.007145	-0.474660	-78.269379	
0.85916	-11.904529	-163.510957	-1.711846
-0.007145	-0.192437	-64.855880	
1.00000	-11.904529	-163.510957	-1.711846
-0.007145	-0.762553	-80.029000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3148

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 295 ========== LENGTH = 2.977215

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.539568	16.204774	0.543706
0.000553	0.305305	8.240537	
0.14084	0.539568	16.204774	0.543706
0.000553	0.077311	11.594365	
0.28168	0.539568	16.204774	0.543706
0.000553	0.178550	14.789743	
0.42251	0.539568	16.204774	0.543706
0.000553	0.443728	18.039990	
0.56335	0.539568	16.204774	0.543706
0.000553	0.708930	21.306685	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.244030	-7.816403	-0.632484
-6.90E-06	-0.351924	-48.949367	
0.14084	-4.244030	-7.816403	-0.632484
-6.90E-06	-0.086783	-55.484376	
0.28168	-4.244030	-7.816403	-0.632484
-6.90E-06	-0.150677	-62.087866	
0.42251	-4.244030	-7.816403	-0.632484
-6.90E-06	-0.378635	-68.700293	
0.56335	-4.244030	-7.816403	-0.632484
-6.90E-06	-0.606609	-75.337316	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.906456	42.447875	0.895769
0.001199	0.503622	15.279586	
0.14084	0.906456	42.447875	0.895769
0.001199	0.128008	18.210269	
0.28168	0.906456	42.447875	0.895769
0.001199	0.300706	21.588928	
0.42251	0.906456	42.447875	0.895769
0.001199	0.748288	25.601350	
0.56335	0.906456	42.447875	0.895769
0.001199	1.196575	30.265805	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.564996	-11.525100	-1.069289
-0.000187	-0.596903	-70.017029	
0.14084	-8.564996	-11.525100	-1.069289
-0.000187	-0.148637	-85.036212	
0.28168	-8.564996	-11.525100	-1.069289
-0.000187	-0.248289	-100.342039	
0.42251	-8.564996	-11.525100	-1.069289
-0.000187	-0.623332	-116.018302	
0.56335	-8.564996	-11.525100	-1.069289
-0.000187	-0.998804	-132.720607	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.074218	93.313503	0.972778
0.001337	0.546089	61.019263	
0.14084	1.074218	93.313503	0.972778
0.001337	0.138141	44.641072	
0.28168	1.074218	93.313503	0.972778
0.001337	0.341992	42.930477	
0.42251	1.074218	93.313503	0.972778
0.001337	0.851193	44.711056	
0.56335	1.074218	93.313503	0.972778
0.001337	1.360545	47.592775	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.752423	-10.507240	-1.214820
-0.000220	-0.677215	-62.220088	
0.14084	-11.752423	-10.507240	-1.214820
-0.000220	-0.167934	-72.277567	
0.28168	-11.752423	-10.507240	-1.214820
-0.000220	-0.269756	-86.380344	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3149

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42251	-11.752423	-10.507240	-1.214820
-0.000220	-0.677645	-123.490964	
0.56335	-11.752423	-10.507240	-1.214820
-0.000220	-1.085521	-162.219739	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.430662	118.075158	0.930308
0.004599	0.538065	131.535470	
0.14084	5.430662	118.075158	0.930308
0.004599	0.148316	120.058020	
0.28168	5.430662	118.075158	0.930308
0.004599	0.335221	120.461287	
0.42251	5.430662	118.075158	0.930308
0.004599	0.822310	132.556894	
0.56335	5.430662	118.075158	0.930308
0.004599	1.324442	153.228219	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.965987	-56.151020	-1.196051
-0.003988	-0.682767	-54.578788	
0.14084	-11.965987	-56.151020	-1.196051
-0.003988	-0.181325	-64.401976	
0.28168	-11.965987	-56.151020	-1.196051
-0.003988	-0.255728	-77.964456	
0.42251	-11.965987	-56.151020	-1.196051

```
-0.003988   -0.635088  -110.082860
 0.56335   -11.965987   -56.151020    -1.196051
-0.003988   -1.022745  -151.462524

COMB DB-G2-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     0.548103     39.068621     0.344836
 0.000536    0.193513     13.882905
 0.14084     0.548103     39.068621     0.344836
 0.000536    0.048830     10.138584
 0.28168     0.548103     39.068621     0.344836
 0.000536    0.123933      9.523494
 0.42251     0.548103     39.068621     0.344836
 0.000536    0.309766      9.713398
 0.56335     0.548103     39.068621     0.344836
 0.000536    0.495676     10.114343

COMB DB-G2-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -5.199255    -2.993070    -0.443443
-9.04E-06    -0.248156   -12.424076
 0.14084    -5.199255    -2.993070    -0.443443
-9.04E-06    -0.062320   -15.922220
 0.28168    -5.199255    -2.993070    -0.443443
-9.04E-06    -0.095693   -30.943575
 0.42251    -5.199255    -2.993070    -0.443443
-9.04E-06    -0.240285   -46.501916
 0.56335    -5.199255    -2.993070    -0.443443
-9.04E-06    -0.384873   -62.567723

COMB DB-G2-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     1.438384    134.688414     0.466826
 0.005597    0.282901    137.376477
 0.14084     1.438384    134.688414     0.466826
 0.005597    0.087638     94.668004
 0.28168     1.438384    134.688414     0.466826
 0.005597    0.188230     67.658062
 0.42251     1.438384    134.688414     0.466826
 0.005597    0.452228     56.460530
 0.56335     1.438384    134.688414     0.466826
 0.005597    0.734559     56.784481

COMB DB-G2-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -10.508397   -10.026667    -0.673874
-0.005084   -0.397273   -12.259848
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3150

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P            V2           V3
       T         M2           M3
 0.14084   -10.508397   -10.026667    -0.673874
-0.005084   -0.114779   -15.810687
 0.28168   -10.508397   -10.026667    -0.673874
-0.005084   -0.127231   -24.392267
 0.42251   -10.508397   -10.026667    -0.673874
-0.005084   -0.308302   -57.355000
 0.56335   -10.508397   -10.026667    -0.673874
-0.005084   -0.500725  -102.911757

COMB DB-G2-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     1.699973    135.736568     0.838402
 0.005495    0.489474    128.940987
 0.14084     1.699973    135.736568     0.838402
 0.005495    0.138287     92.803476
 0.28168     1.699973    135.736568     0.838402
 0.005495    0.308579     70.756379
 0.42251     1.699973    135.736568     0.838402
 0.005495    0.753327     62.984087
 0.56335     1.699973    135.736568     0.838402
 0.005495    1.214455     65.587337

COMB DB-G2-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -12.970885   -14.560141    -1.100459
-0.004594   -0.632740   -46.816843
 0.14084   -12.970885   -14.560141    -1.100459
-0.004594   -0.171458   -55.739967
 0.28168   -12.970885   -14.560141    -1.100459
-0.004594   -0.230439   -69.606059
 0.42251   -12.970885   -14.560141    -1.100459
-0.004594   -0.568751  -105.278091
 0.56335   -12.970885   -14.560141    -1.100459
-0.004594   -0.917298  -152.277171

COMB DB-G2-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     7.826666    110.587045     0.883085
 0.003818    0.508937    115.633341
 0.14084     7.826666    110.587045     0.883085
 0.003818    0.13856     114.535667
 0.28168     7.826666    110.587045     0.883085
 0.003818    0.318993    125.709479
 0.42251     7.826666    110.587045     0.883085
 0.003818    0.786796    147.021064
 0.56335     7.826666    110.587045     0.883085
 0.003818    1.265304    175.357817

COMB DB-G2-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -10.879945   -73.736555    -1.141662
-0.003622   -0.605541   -43.305376
 0.14084   -10.879945   -73.736555    -1.141662
-0.003622   -0.171928   -52.684539
 0.28168   -10.879945   -73.736555    -1.141662
-0.003622   -0.242678   -65.957217
 0.42251   -10.879945   -73.736555    -1.141662
-0.003622   -0.604277   -97.961732
 0.56335   -10.879945   -73.736555    -1.141662
-0.003622   -0.972589  -137.734627

COMB DB-G3-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     9.481006     9.921632     0.347868
 0.000137    0.196454     2.615905
 0.14084     9.481006     9.921632     0.347868
 0.000137    0.050583     21.276113
 0.28168     9.481006     9.921632     0.347868
 0.000137    0.115087     52.804407
 0.42251     9.481006     9.921632     0.347868
 0.000137    0.290551     84.559698
 0.56335     9.481006     9.921632     0.347868
 0.000137    0.466030    116.402432
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3151

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -0.766870    -76.089676    -0.418505
-0.001077   -0.235885   -12.263338
 0.14084    -0.766870    -76.089676    -0.418505
-0.001077   -0.060324   -11.526988
 0.28168    -0.766870    -76.089676    -0.418505
-0.001077   -0.095296   -14.837585
 0.42251    -0.766870    -76.089676    -0.418505
-0.001077   -0.241138   -18.389221
 0.56335    -0.766870    -76.089676    -0.418505
-0.001077   -0.386996   -22.367832

COMB DB-G3-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    12.084427    93.172382     0.454066
 0.005962    0.281676    121.733971
 0.14084    12.084427    93.172382     0.454066
 0.005962    0.091957    124.465947
 0.28168    12.084427    93.172382     0.454066
 0.005962    0.170127    133.913457
 0.42251    12.084427    93.172382     0.454066
 0.005962    0.406794    160.110319
 0.56335    12.084427    93.172382     0.454066
 0.005962    0.665457    199.614398

COMB DB-G3-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -5.147607   -102.149125    -0.617801
-0.007129   -0.372446   -10.123470
 0.14084    -5.147607   -102.149125    -0.617801
-0.007129   -0.113440   -14.705472
 0.28168    -5.147607   -102.149125    -0.617801
-0.007129   -0.121785   -19.389275
 0.42251    -5.147607   -102.149125    -0.617801
-0.007129   -0.294274   -26.866459
 0.56335    -5.147607   -102.149125    -0.617801
-0.007129   -0.480633   -51.945062

COMB DB-G3-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    11.068581    118.607526     0.648535
 0.004579    0.382690    118.151466
 0.14084    11.068581    118.607526     0.648535
 0.004579    0.111162    115.603321
 0.28168    11.068581    118.607526     0.648535
 0.004579    0.243266    127.790137
 0.42251    11.068581    118.607526     0.648535
 0.004579    0.595789    153.439743
 0.56335    11.068581    118.607526     0.648535
 0.004579    0.963417    188.734921

COMB DB-G3-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -8.660746    -92.149239    -0.877422
-0.005275   -0.509562   -11.551877
 0.14084    -8.660746    -92.149239    -0.877422
-0.005275   -0.141617   -15.157168
 0.28168    -8.660746    -92.149239    -0.877422
-0.005275   -0.176733   -24.072440
 0.42251    -8.660746    -92.149239    -0.877422
-0.005275   -0.436461   -54.668814
 0.56335    -8.660746    -92.149239    -0.877422
-0.005275   -0.705590   -95.457938

COMB DB-G3-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     9.600303    114.152267     0.869696
 0.004174    0.535579    121.429023
 0.14084     9.600303    114.152267     0.869696
 0.004174    0.139220    100.981830
 0.28168     9.600303    114.152267     0.869696
 0.004174    0.314210    112.843115
 0.42251     9.600303    114.152267     0.869696
 0.004174    0.774476    135.873386
 0.56335     9.600303    114.152267     0.869696
 0.004174    1.247289    166.932897
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3152

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -10.425524    -80.725872    -1.128169
-0.004370   -0.646046   -35.416247
 0.14084   -10.425524    -80.725872    -1.128169
-0.004370   -0.172981   -44.460596
 0.28168   -10.425524    -80.725872    -1.128169
-0.004370   -0.238640   -57.400669
 0.42251   -10.425524    -80.725872    -1.128169
-0.004370   -0.593171   -88.758994
 0.56335   -10.425524    -80.725872    -1.128169
-0.004370   -0.955549  -128.986899

COMB DL-G1-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     0.699634     19.633691     0.759362
 0.000529    0.426161     12.510991
 0.14084     0.699634     19.633691     0.759362
 0.000529    0.108167     16.623513
 0.28168     0.699634     19.633691     0.759362
 0.000529    0.246600     20.776536
 0.42251     0.699634     19.633691     0.759362
 0.000529    0.614027     24.963489
 0.56335     0.699634     19.633691     0.759362
 0.000529    0.981762     29.161154

COMB DL-G1-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -4.278733    -10.035204    -0.876624
-4.03E-06   -0.488577    -57.783964
 0.14084    -4.278733    -10.035204    -0.876624
-4.03E-06   -0.120169    -65.783702
 0.28168    -4.278733    -10.035204    -0.876624
-4.03E-06   -0.207940    -73.856327
 0.42251    -4.278733    -10.035204    -0.876624
-4.03E-06   -0.526064    -81.973474
 0.56335    -4.278733    -10.035204    -0.876624
-4.03E-06   -0.845283    -90.115115

COMB DL-G1-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     1.094967     46.802656     1.247752
 0.001065    0.699049     19.315376
 0.14084     1.094967     46.802656     1.247752
 0.001065    0.176400     23.802420
 0.28168     1.094967     46.802656     1.247752
 0.001065    0.414358     28.883215
 0.42251     1.094967     46.802656     1.247752
 0.001065    1.035675     34.394270
 0.56335     1.094967     46.802656     1.247752
 0.001065    1.657602     40.185827

COMB DL-G1-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -8.679287    -14.446882    -1.482961
-0.000114   -0.829636    -80.063234
 0.14084    -8.679287    -14.446882    -1.482961
-0.000114   -0.206492    -96.884804
 0.28168    -8.679287    -14.446882    -1.482961
-0.000114   -0.343726   -114.240153
 0.42251    -8.679287    -14.446882    -1.482961
-0.000114   -0.865942   -132.583149
 0.56335    -8.679287    -14.446882    -1.482961
-0.000114   -1.390444   -151.605615

COMB DL-G1-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     1.254994     91.736061     1.363019
 0.001207    0.761813     77.327254
 0.14084     1.254994     91.736061     1.363019
 0.001207    0.191273     62.019645
 0.28168     1.254994     91.736061     1.363019
 0.001207    0.473177     53.774380
 0.42251     1.254994     91.736061     1.363019
 0.001207    1.183935     53.951114
 0.56335     1.254994     91.736061     1.363019
 0.001207    1.895270     56.929852
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3153

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -11.227387   -13.937076    -1.694632
-0.000216   -0.946669   -70.920785
 0.14084   -11.227387   -13.937076    -1.694632
-0.000216   -0.234681   -83.461411
 0.28168   -11.227387   -13.937076    -1.694632
-0.000216   -0.375028   -99.901311
 0.42251   -11.227387   -13.937076    -1.694632
-0.000216   -0.946080  -133.230167
 0.56335   -11.227387   -13.937076    -1.694632
-0.000216   -1.519409  -169.171284

COMB DL-G1-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     5.276282    109.491166     1.258122
 0.003697    0.717772    141.333576
 0.14084     5.276282    109.491166     1.258122
 0.003697    0.191592    134.002375
 0.28168     5.276282    109.491166     1.258122
 0.003697    0.452693    132.541096
 0.42251     5.276282    109.491166     1.258122
 0.003697    1.124230    144.436003
 0.56335     5.276282    109.491166     1.258122
 0.003697    1.807872    163.939331

COMB DL-G1-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -11.136892   -56.836172    -1.628594
-0.003147   -0.923575   -62.385078
 0.14084   -11.136892   -56.836172    -1.628594
-0.003147   -0.239876   -74.588877
 0.28168   -11.136892   -56.836172    -1.628594
-0.003147   -0.342966   -90.256890
 0.42251   -11.136892   -56.836172    -1.628594
-0.003147   -0.860374  -119.704086
 0.56335   -11.136892   -56.836172    -1.628594
-0.003147   -1.387651  -159.715652

COMB DL-G2-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     0.555609     36.661331     0.479038
 0.000464    0.066698     15.744444
 0.14084     0.555609     36.661331     0.479038
 0.000464    0.066269      9.863936
 0.28168     0.555609     36.661331     0.479038
 0.000464    0.169969      9.275648
 0.42251     0.555609     36.661331     0.479038
 0.000464    0.429331      9.674711
 0.56335     0.555609     36.661331     0.479038
 0.000464    0.688022     10.392647

COMB DL-G2-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -5.098717    -3.295847    -0.616926
-5.07E-06   -0.346552   -11.818802
 0.14084    -5.098717    -3.295847    -0.616926
-5.07E-06   -0.087373   -17.364488
 0.28168    -5.098717    -3.295847    -0.616926
-5.07E-06   -0.132965   -30.272838
 0.42251    -5.098717    -3.295847    -0.616926
-5.07E-06   -0.133683   -44.655496
 0.56335    -5.098717    -3.295847    -0.616926
-5.07E-06   -0.535228   -59.439679

COMB DL-G2-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     1.508155    120.683351     0.649636
 0.004793    0.382081    143.789116
 0.14084     1.508155    120.683351     0.649636
 0.004793    0.110739    104.743794
 0.28168     1.508155    120.683351     0.649636
 0.004793    0.253692     73.531494
 0.42251     1.508155    120.683351     0.649636
 0.004793    0.623539     61.267926
 0.56335     1.508155    120.683351     0.649636
 0.004793    1.010569     59.942388
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3154

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -9.616338   -10.801988    -0.921872
-0.004394   -0.535911   -11.806560
 0.14084    -9.616338   -10.801988    -0.921872
-0.004394   -0.148987   -15.803818
 0.28168    -9.616338   -10.801988    -0.921872
-0.004394   -0.176781   -25.357648
 0.42251    -9.616338   -10.801988    -0.921872
-0.004394   -0.434122   -52.341917
 0.56335    -9.616338   -10.801988    -0.921872
-0.004394   -0.704876   -94.778663

COMB DL-G2-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     1.706251    126.447583     1.165972
 0.004757    0.669363    137.625817
 0.14084     1.706251    126.447583     1.165972
 0.004757    0.181719    105.253817
 0.28168     1.706251    126.447583     1.165972
 0.004757    0.419770     80.015940
 0.42251     1.706251    126.447583     1.165972
 0.004757    1.038830     71.930262
 0.56335     1.706251    126.447583     1.165972
 0.004757    1.673513     73.711800

COMB DL-G2-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -12.204547   -16.737800    -1.512733
-0.003976   -0.863900   -51.619281
 0.14084   -12.204547   -16.737800    -1.512733
-0.003976   -0.228925   -62.292278
 0.28168   -12.204547   -16.737800    -1.512733
-0.003976   -0.319058   -78.312807
 0.42251   -12.204547   -16.737800    -1.512733
-0.003976   -0.794473  -109.882121
 0.56335   -12.204547   -16.737800    -1.512733
-0.003976   -1.282397  -155.415846

COMB DL-G2-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     7.219974    103.307429     1.156350
 0.003115    0.658044    124.967287
 0.14084     7.219974    103.307429     1.156350
 0.003115    0.174587    126.308135
 0.28168     7.219974    103.307429     1.156350
 0.003115    0.425687    133.735384
 0.42251     7.219974    103.307429     1.156350
 0.003115    1.060730    153.602656
 0.56335     7.219974    103.307429     1.156350
 0.003115    1.705517    180.087322

COMB DL-G2-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -10.098648   -72.407811    -1.536943
-0.002957   -0.871532   -48.712810
 0.14084   -10.098648   -72.407811    -1.536943
-0.002957   -0.226654   -60.032395
 0.28168   -10.098648   -72.407811    -1.536943
-0.002957   -0.315486   -75.708392
 0.42251   -10.098648   -72.407811    -1.536943
-0.002957   -0.791845  -104.811582
 0.56335   -10.098648   -72.407811    -1.536943
-0.002957   -1.276263  -142.956780

COMB DL-G3-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     8.566305    11.846508     0.362835
 1.39E-05    0.204260     3.067001
 0.14084     8.566305    11.846508     0.362835
 1.39E-05    0.052937     20.027704
 0.28168     8.566305    11.846508     0.362835
 1.39E-05    0.140316     49.535563
 0.42251     8.566305    11.846508     0.362835
 1.39E-05    0.354902     79.472356
 0.56335     8.566305    11.846508     0.362835
 1.39E-05    0.569479    109.652776
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3155

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -0.656065   -72.737680    -0.511951
-0.000986   -0.288686   -22.658561
 0.14084    -0.656065   -72.737680    -0.511951
-0.000986   -0.072476   -16.468926
 0.28168    -0.656065   -72.737680    -0.511951
-0.000986   -0.098173   -20.699901
 0.42251    -0.656065   -72.737680    -0.511951
-0.000986   -0.249814   -25.030918
 0.56335    -0.656065   -72.737680    -0.511951
-0.000986   -0.401704   -29.769181

COMB DL-G3-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    11.053087    92.273006     0.488207
 0.005924    0.304282    131.683856
 0.14084    11.053087    92.273006     0.488207
 0.005924    0.101014    132.478944
 0.28168    11.053087    92.273006     0.488207
 0.005924    0.206553    139.377311
 0.42251    11.053087    92.273006     0.488207
 0.005924    0.500017    161.697899
 0.56335    11.053087    92.273006     0.488207
 0.005924    0.817868    196.809187

COMB DL-G3-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -4.909680   -96.802375    -0.758841
-0.006999   -0.454985   -16.368916
 0.14084    -4.909680   -96.802375    -0.758841
-0.006999   -0.137416   -19.631383
 0.28168    -4.909680   -96.802375    -0.758841
-0.006999   -0.127771   -25.374863
 0.42251    -4.909680   -96.802375    -0.758841
-0.006999   -0.311077   -34.631306
 0.56335    -4.909680   -96.802375    -0.758841
-0.006999   -0.511923   -63.716390

COMB DL-G3-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    10.084965    113.399001     0.777600
 0.004665    0.456134    133.925921
 0.14084    10.084965    113.399001     0.777600
 0.004665    0.131475    127.319072
 0.28168    10.084965    113.399001     0.777600
 0.004665    0.311920    130.027809
 0.42251    10.084965    113.399001     0.777600
 0.004665    0.771656    150.718755
 0.56335    10.084965    113.399001     0.777600
 0.004665    1.248805    181.978372

COMB DL-G3-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000    -8.016054   -87.203091    -1.137661
-0.005359   -0.659032   -15.760428
 0.14084    -8.016054   -87.203091    -1.137661
-0.005359   -0.182069   -19.856042
 0.28168    -8.016054   -87.203091    -1.137661
-0.005359   -0.209189   -29.647534
 0.42251    -8.016054   -87.203091    -1.137661
-0.005359   -0.519589   -54.420621
 0.56335    -8.016054   -87.203091    -1.137661
-0.005359   -0.843427   -94.285285

COMB DL-G3-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
 0.00000     8.769531    112.399298     1.105072
 0.004231    0.635295    116.157626
 0.14084     8.769531    112.399298     1.105072
 0.004231    0.173508    112.835602
 0.28168     8.769531    112.399298     1.105072
 0.004231    0.412892    117.155338
 0.42251     8.769531    112.399298     1.105072
 0.004231    1.026472    136.404899
 0.56335     8.769531    112.399298     1.105072
 0.004231    1.654563    164.476287
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3156

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
 0.00000   -10.061030   -77.527742    -1.497634
-0.004456   -0.857011   -41.361503
 0.14084   -10.061030   -77.527742    -1.497634
-0.004456   -0.228753   -50.944452
 0.28168   -10.061030   -77.527742    -1.497634
-0.004456   -0.300853   -66.740077
 0.42251   -10.061030   -77.527742    -1.497634
-0.004456   -0.751141   -94.547759
 0.56335   -10.061030   -77.527742    -1.497634
-0.004456   -1.213116  -135.065467

COMB      DB ------------------- MAX
```

```
REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.084427  135.736568    0.972778
0.005962    0.546089  137.376477
0.14084   12.084427  135.736568    0.972778
0.005962    0.148316  124.465947
0.28168   12.084427  135.736568    0.972778
0.005962    0.341992  133.913457
0.42251   12.084427  135.736568    0.972778
0.005962    0.851193  160.110319
0.56335   12.084427  135.736568    0.972778
0.005962    1.360545  199.614398

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -12.970885 -102.149125   -1.214820
-0.007129   -0.688767   -70.017029
0.14084  -12.970885 -102.149125   -1.214820
-0.007129   -0.181325   -85.036212
0.28168  -12.970885 -102.149125   -1.214820
-0.007129   -0.269756  -100.342039
0.42251  -12.970885 -102.149125   -1.214820
-0.007129   -0.677645  -123.490964
0.56335  -12.970885 -102.149125   -1.214820
-0.007129   -1.085521  -162.219739

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   11.053087  126.447583    1.363019
0.005924    0.761813  143.789116
0.14084   11.053087  126.447583    1.363019
0.005924    0.191592  134.002375
0.28168   11.053087  126.447583    1.363019
0.005924    0.473177  139.377311
0.42251   11.053087  126.447583    1.363019
0.005924    1.183935  161.697899
0.56335   11.053087  126.447583    1.363019
0.005924    1.895270  196.809187

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -12.204547  -96.802375   -1.694632
-0.006999   -0.946669   -80.063234
0.14084  -12.204547  -96.802375   -1.694632
-0.006999   -0.239876   -96.884804
0.28168  -12.204547  -96.802375   -1.694632
-0.006999   -0.375028  -114.243153
0.42251  -12.204547  -96.802375   -1.694632
-0.006999   -0.946080  -133.230167
0.56335  -12.204547  -96.802375   -1.694632
-0.006999   -1.519409  -169.171284

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.084427  135.736568    1.363019
0.005962    0.761813  143.789116
0.14084   12.084427  135.736568    1.363019
0.005962    0.191592  134.002375
0.28168   12.084427  135.736568    1.363019
0.005962    0.473177  139.377311
0.42251   12.084427  135.736568    1.363019
0.005962    1.183935  161.697899
0.56335   12.084427  135.736568    1.363019
0.005962    1.895270  199.614398
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3157

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -12.970885 -102.149125   -1.694632
-0.007129   -0.946669   -80.063234
0.14084  -12.970885 -102.149125   -1.694632
-0.007129   -0.239876   -96.884804
0.28168  -12.970885 -102.149125   -1.694632
-0.007129   -0.375028  -114.243153
0.42251  -12.970885 -102.149125   -1.694632
-0.007129   -0.946080  -133.230167
0.56335  -12.970885 -102.149125   -1.694632
-0.007129   -1.519409  -169.171284

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000   12.084427  135.736568    1.363019
0.005962    0.761813  143.789116
0.14084   12.084427  135.736568    1.363019
0.005962    0.191592  134.002375
0.28168   12.084427  135.736568    1.363019
0.005962    0.473177  139.377311
0.42251   12.084427  135.736568    1.363019
0.005962    1.183935  161.697899
0.56335   12.084427  135.736568    1.363019
0.005962    1.895270  199.614398

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000  -12.970885 -102.149125   -1.694632
-0.007129   -0.946669   -80.063234
0.14084  -12.970885 -102.149125   -1.694632
-0.007129   -0.239876   -96.884804
0.28168  -12.970885 -102.149125   -1.694632
-0.007129   -0.375028  -114.243153
0.42251  -12.970885 -102.149125   -1.694632
-0.007129   -0.946080  -133.230167
0.56335  -12.970885 -102.149125   -1.694632
-0.007129   -1.519409  -169.171284

ELEM      296 ================== LENGTH
=    2.977307

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    0.055009   18.703684    0.512327
0.000486    0.572091    1.931974
0.57748    0.055009   18.703684    0.512327
0.000486    0.357259    2.351010
0.71832    0.055009   18.703684    0.512327
0.000486    0.142454    2.869469
0.85916    0.055009   18.703684    0.512327
0.000486    0.079046    4.384081
1.00000    0.055009   18.703684    0.512327
0.000486    0.309399    6.034246

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -5.061936   -4.516100   -0.549342
-0.000172   -0.612039   -23.995609
0.57748   -5.061936   -4.516100   -0.549342
-0.000172   -0.381687   -31.419760
0.71832   -5.061936   -4.516100   -0.549342
-0.000172   -0.151355   -38.870071
0.85916   -5.061936   -4.516100   -0.549342
-0.000172   -0.072356   -46.338801
1.00000   -5.061936   -4.516100   -0.549342
-0.000172   -0.287239   -53.902620

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    0.637032   44.920330    0.844995
0.001135    0.942622   31.443513
0.57748    0.637032   44.920330    0.844995
0.001135    0.588308   23.047237
0.71832    0.637032   44.920330    0.844995
0.001135    0.234718   15.866057
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3158

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
0.85916    0.637032   44.920330    0.844995
0.001135    0.133019   11.473912
1.00000    0.637032   44.920330    0.844995
0.001135    0.519682   12.222679

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -9.165111   -8.296485   -0.922116
-0.000666   -1.027653  -27.643114
0.57748   -9.165111   -8.296485   -0.922116
-0.000666   -0.641041  -36.756230
0.71832   -9.165111   -8.296485   -0.922116
-0.000666   -0.254458  -47.673793
0.85916   -9.165111   -8.296485   -0.922116
-0.000666   -0.120284  -60.893105
1.00000   -9.165111   -8.296485   -0.922116
-0.000666   -0.474710  -75.246396

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    0.749626   97.835900    0.909927
0.000849    1.015788  179.443205
0.57748    0.749626   97.835900    0.909927
0.000849    0.634229  147.896240
0.71832    0.749626   97.835900    0.909927
0.000849    0.252660  116.985508
0.85916    0.749626   97.835900    0.909927
0.000849    0.145968   87.870959
1.00000    0.749626   97.835900    0.909927
0.000849    0.574993   61.807483

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664  -12.309253   -5.931521   -1.023207
-0.000458   -1.141175  -24.311750
0.57748  -12.309253   -5.931521   -1.023207
-0.000458   -0.712055  -33.340792
0.71832  -12.309253   -5.931521   -1.023207
-0.000458   -0.283025  -43.181084
0.85916  -12.309253   -5.931521   -1.023207
-0.000458   -0.128799  -54.572189
1.00000  -12.309253   -5.931521   -1.023207
-0.000458   -0.510468  -66.585529

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    7.574808   85.400371    0.920194
0.004416    1.012121  165.436772
0.57748    7.574808   85.400371    0.920194
0.004416    0.626715  140.803626
0.71832    7.574808   85.400371    0.920194
0.004416    0.254683  124.560817
0.85916    7.574808   85.400371    0.920194
0.004416    0.159928  122.176185
1.00000    7.574808   85.400371    0.920194
0.004416    0.583957  134.534740

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664  -10.501028  -90.890293   -1.011799
-0.004234   -1.125247  -82.180900
0.57748  -10.501028  -90.890293   -1.011799
-0.004234   -0.701959  -58.716024
0.71832  -10.501028  -90.890293   -1.011799
-0.004234   -0.279376  -48.201077
0.85916  -10.501028  -90.890293   -1.011799
-0.004234   -0.145901  -46.713364
1.00000  -10.501028  -90.890293   -1.011799
-0.004234   -0.531840  -57.453798

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    0.645929   40.679133    0.322671
0.000466    0.360039   72.885195
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3159

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
0.57748    0.645929   40.679133    0.322671
0.000466    0.224699   55.865413
0.71832    0.645929   40.679133    0.322671
0.000466    0.089443   39.614119
0.85916    0.645929   40.679133    0.322671
0.000466    0.053012   24.522326
1.00000    0.645929   40.679133    0.322671
0.000466    0.209332   14.103555

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -4.971476   -1.452838   -0.372760
-0.000364   -0.415989   -3.330313
0.57748   -4.971476   -1.452838   -0.372760
-0.000364   -0.259698   -3.422451
0.71832   -4.971476   -1.452838   -0.372760
-0.000364   -0.103378   -4.509670
0.85916   -4.971476   -1.452838   -0.372760
-0.000364   -0.045869   -7.612606
1.00000   -4.971476   -1.452838   -0.372760
-0.000364   -0.181170  -11.540605

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    4.778033   88.840648    0.470316
0.005144    0.504698  215.344322
0.57748    4.778033   88.840648    0.470316
0.005144    0.308102  181.420955
0.71832    4.778033   88.840648    0.470316
0.005144    0.129824  157.274048
0.85916    4.778033   88.840648    0.470316
0.005144    0.093326  148.030727
1.00000    4.778033   88.840648    0.470316
0.005144    0.307871  142.206024

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -7.754001  -60.539470   -0.512403
-0.005132   -0.568150  -21.227844
0.57748   -7.754001  -60.539470   -0.512403
-0.005132   -0.354635   -3.784433
0.71832   -7.754001  -60.539470   -0.512403
-0.005132   -0.142087   -4.080300
0.85916   -7.754001  -60.539470   -0.512403
-0.005132   -0.087601   -7.286216
1.00000   -7.754001  -60.539470   -0.512403
-0.005132   -0.284870  -11.350904

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    4.520725   96.308279    0.817085
0.005037    0.893857  192.488755
0.57748    4.520725   96.308279    0.817085
0.005037    0.551796  163.121279
0.71832    4.520725   96.308279    0.817085
0.005037    0.226272  142.557502
0.85916    4.520725   96.308279    0.817085
0.005037    0.145454  135.926419
1.00000    4.520725   96.308279    0.817085
0.005037    0.517817  131.863317

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664  -10.863157  -57.730227   -0.888443
-0.004810   -0.987456  -30.108110
0.57748  -10.863157  -57.730227   -0.888443
-0.004810   -0.616202  -21.629967
0.71832  -10.863157  -57.730227   -0.888443
-0.004810   -0.245672  -29.014258
0.85916  -10.863157  -57.730227   -0.888443
-0.004810   -0.134543  -38.662356
1.00000  -10.863157  -57.730227   -0.888443
-0.004810   -0.477292  -48.988570
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3160

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    9.814200   82.893834    0.888046
0.003755    0.978413  162.567406
0.57748    9.814200   82.893834    0.888046
0.003755    0.606411  137.178500
0.71832    9.814200   82.893834    0.888046
0.003755    0.245239  117.940663
0.85916    9.814200   82.893834    0.888046
0.003755    0.153888  109.783502
1.00000    9.814200   82.893834    0.888046
0.003755    0.569123  119.617426

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -9.326765 -103.009544   -0.990542
-0.003748   -1.102140 -108.524151
0.57748   -9.326765 -103.009544   -0.990542
-0.003748   -0.687586  -77.352376
0.71832   -9.326765 -103.009544   -0.990542
-0.003748   -0.273574  -56.700466
0.85916   -9.326765 -103.009544   -0.990542
-0.003748   -0.139047  -37.768919
1.00000   -9.326765 -103.009544   -0.990542
-0.003748   -0.511523  -43.960048

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    9.818495    5.711522    0.395155
0.000388    0.439171    6.768579
0.57748    9.818495    5.711522    0.395155
0.000388    0.273493    5.015460
0.71832    9.818495    5.711522    0.395155
0.000388    0.107840    4.281039
0.85916    9.818495    5.711522    0.395155
0.000388    0.063675    3.569921
1.00000    9.818495    5.711522    0.395155
0.000388    0.249654    2.876145

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -0.355157  -78.903184   -0.443356
-0.000701   -0.494014 -143.152954
0.57748   -0.355157  -78.903184   -0.443356
-0.000701   -0.308105 -110.109847
0.71832   -0.355157  -78.903184   -0.443356
-0.000701   -0.122191  -77.096015
0.85916   -0.355157  -78.903184   -0.443356
-0.000701   -0.105547  -44.089071
1.00000   -0.355157  -78.903184   -0.443356
-0.000701   -0.223651  -11.089794

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664   16.227771   30.273892    0.545961
0.006290    0.583050   85.712410
0.57748   16.227771   30.273892    0.545961
0.006290    0.354881   77.650603
0.71832   16.227771   30.273892    0.545961
0.006290    0.126733   81.367344
0.85916   16.227771   30.273892    0.545961
0.006290    0.107528  102.901642
1.00000   16.227771   30.273892    0.545961
0.006290    0.347014  124.894711

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -1.651595 -167.999592   -0.571799
-0.006697   -0.632384 -182.804698
0.57748   -1.651595 -167.999592   -0.571799
-0.006697   -0.394345 -121.087069
0.71832   -1.651595 -167.999592   -0.571799
-0.006697   -0.157342  -79.906113
0.85916   -1.651595 -167.999592   -0.571799
-0.006697   -0.104700  -40.215004
1.00000   -1.651595 -167.999592   -0.571799
-0.006697   -0.333567   -7.443662
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3161

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664   14.155558   75.556188    0.704047
0.004578    0.767265  186.315746
0.57748   14.155558   75.556188    0.704047
0.004578    0.472564  157.972652
0.71832   14.155558   75.556188    0.704047
0.004578    0.193151  137.777493
0.85916   14.155558   75.556188    0.704047
0.004578    0.128898  130.065041
1.00000   14.155558   75.556188    0.704047
0.004578    0.456825  123.981174

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -6.007094 -137.653026   -0.782290
-0.004933   -0.869245 -162.453605
0.57748   -6.007094 -137.653026   -0.782290
-0.004933   -0.542397 -110.949279
0.71832   -6.007094 -137.653026   -0.782290
-0.004933   -0.215622  -73.584165
0.85916   -6.007094 -137.653026   -0.782290
-0.004933   -0.119061  -37.295216
1.00000   -6.007094 -137.653026   -0.782290
-0.004933   -0.414239   -8.507581

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664   12.141545   80.316003    0.896389
0.004161    0.985200  163.903735
0.57748   12.141545   80.316003    0.896389
0.004161    0.609763  136.345623
0.71832   12.141545   80.316003    0.896389
0.004161    0.246962  117.330446
0.85916   12.141545   80.316003    0.896389
0.004161    0.156396  109.526964
1.00000   12.141545   80.316003    0.896389
0.004161    0.573204  105.416083

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -8.307930 -116.479611   -0.994394
-0.004302   -1.106129 -139.842611
0.57748   -8.307930 -116.479611   -0.994394
-0.004302   -0.690134 -101.536988
0.71832   -8.307930 -116.479611   -0.994394
-0.004302   -0.274707  -75.505724
0.85916   -8.307930 -116.479611   -0.994394
-0.004302   -0.142934  -51.493055
1.00000   -8.307930 -116.479611   -0.994394
-0.004302   -0.518792  -34.228326

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    0.063972   23.953919    0.662476
0.000407    0.739242    2.195328
0.57748    0.063972   23.953919    0.662476
0.000407    0.461716    3.309433
0.71832    0.063972   23.953919    0.662476
0.000407    0.183970    5.590661
0.85916    0.063972   23.953919    0.662476
0.000407    0.102392    8.220823
1.00000    0.063972   23.953919    0.662476
0.000407    0.406379   10.958468

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -5.711457   -7.154675   -0.724652
-0.000160   -0.808284  -26.891600
0.57748   -5.711457   -7.154675   -0.724652
-0.000160   -0.504464  -35.445218
0.71832   -5.711457   -7.154675   -0.724652
-0.000160   -0.200452  -45.126316
0.85916   -5.711457   -7.154675   -0.724652
-0.000160   -0.092863  -54.855208
1.00000   -5.711457   -7.154675   -0.724652
-0.000160   -0.370266  -64.683027
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3162

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    0.677318   52.544872    1.093484
0.000902    1.218598   33.568637
0.57748    0.677318   52.544872    1.093484
0.000902    0.760479   25.631817
0.71832    0.677318   52.544872    1.093484
0.000902    0.302472   19.851312
0.85916    0.677318   52.544872    1.093484
0.000902    0.166692   15.924847
1.00000    0.677318   52.544872    1.093484
0.000902    0.663749   17.698742

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664   -9.340608  -10.936535   -1.184137
-0.000532   -1.321458  -29.943078
0.57748   -9.340608  -10.936535   -1.184137
-0.000532   -0.824909  -40.910292
0.71832   -9.340608  -10.936535   -1.184137
-0.000532   -0.327985  -54.700582
0.85916   -9.340608  -10.936535   -1.184137
-0.000532   -0.154846  -69.480446
1.00000   -9.340608  -10.936535   -1.184137
-0.000532   -0.612711  -87.569942

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    0.886134   98.844767    1.184675
0.000731    1.320429  182.927471
0.57748    0.886134   98.844767    1.184675
0.000731    0.823792  154.441558
0.71832    0.886134   98.844767    1.184675
0.000731    0.327849  127.622117
0.85916    0.886134   98.844767    1.184675
0.000731    0.182777  102.138512
1.00000    0.886134   98.844767    1.184675
0.000731    0.733598   80.656509

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664  -11.796118   -9.720022   -1.310976
-0.000424   -1.464003  -27.067537
0.57748  -11.796118   -9.720022   -1.310976
-0.000424   -0.913901  -37.220343
0.71832  -11.796118   -9.720022   -1.310976
-0.000424   -0.362709  -49.352039
0.85916  -11.796118   -9.720022   -1.310976
-0.000424   -0.167050  -62.363727
1.00000  -11.796118   -9.720022   -1.310976
-0.000424   -0.662070  -77.605859

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43664    6.715373   87.494439    1.183767
0.003497    1.306435  172.921875
0.57748    6.715373   87.494439    1.183767
0.003497    0.810285  150.116535
0.71832    6.715373   87.494439    1.183767
0.003497    0.326255  136.329489
0.85916    6.715373   87.494439    1.183767
0.003497    0.198472  135.558371
1.00000    6.715373   87.494439    1.183767
0.003497    0.753315  147.478349

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43664  -10.081473  -82.728781   -1.321025
-0.003374   -1.461574  -77.601746
0.57748  -10.081473  -82.728781   -1.321025
-0.003374   -0.910864  -57.316328
0.71832  -10.081473  -82.728781   -1.321025
-0.003374   -0.363860  -51.628056
0.85916  -10.081473  -82.728781   -1.321025
-0.003374   -0.180744  -53.916406
1.00000  -10.081473  -82.728781   -1.321025
-0.003374   -0.675244  -67.693082
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3163

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX
```

```
REL DIST          P          V2          V3
     T         M2         M3
0.43664    0.704649   38.627356    0.418011
 0.000388   0.465155   72.111884
0.57748    0.704649   38.627356    0.418011
 0.000388   0.290159   56.421530
0.71832    0.704649   38.627356    0.418011
 0.000388   0.114775   41.254508
0.85916    0.704649   38.627356    0.418011
 0.000388   0.062408   27.087600
1.00000    0.704649   38.627356    0.418011
 0.000388   0.252656   16.891796

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664   -4.189538   -1.650494   -0.453220
-0.000297  -0.506946   -1.230451
0.57748   -4.189538   -1.650494   -0.453220
-0.000297  -0.316705   -3.777362
0.71832   -4.189538   -1.650494   -0.453220
-0.000297  -0.125752   -5.105725
0.85916   -4.189538   -1.650494   -0.453220
-0.000297  -0.059831   -7.167862
1.00000   -4.189538   -1.650494   -0.453220
-0.000297  -0.234446   -11.346499

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664    4.261861   82.884760    0.590211
 0.004445   0.637706   221.294289
0.57748    4.261861   82.884760    0.590211
 0.004445   0.390072   189.567508
0.71832    4.261861   82.884760    0.590211
 0.004445   0.160917   167.684471
0.85916    4.261861   82.884760    0.590211
 0.004445   0.111615   157.461598
1.00000    4.261861   82.884760    0.590211
 0.004445   0.389399   150.937150

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664   -6.574130   -52.411052   -0.660451
-0.004449  -0.718893   -22.181328
0.57748   -6.574130   -52.411052   -0.660451
-0.004449  -0.446801   -3.995161
0.71832   -6.574130   -52.411052   -0.660451
-0.004449  -0.180835   -4.594743
0.85916   -6.574130   -52.411052   -0.660451
-0.004449  -0.104664   -6.947285
1.00000   -6.574130   -52.411052   -0.660451
-0.004449  -0.350200   -11.453811

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664    4.031359   95.512564    1.041391
 0.004344   1.142671   197.541006
0.57748    4.031359   95.512564    1.041391
 0.004344   0.706192   170.592073
0.71832    4.031359   95.512564    1.041391
 0.004344   0.285982   153.551556
0.85916    4.031359   95.512564    1.041391
 0.004344   0.178024   147.144578
1.00000    4.031359   95.512564    1.041391
 0.004344   0.659389   143.233327

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664   -10.008516   -52.257067   -1.145321
-0.004176  -1.261871   -30.557994
0.57748   -10.008516   -52.257067   -1.145321
-0.004176  -0.785971   -22.359645
0.71832   -10.008516   -52.257067   -1.145321
-0.004176  -0.315533   -31.999264
0.85916   -10.008516   -52.257067   -1.145321
-0.004176  -0.166233   -43.113562
1.00000   -10.008516   -52.257067   -1.145321
-0.004176  -0.600957   -55.672343
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3164

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664    8.872925   83.602965    1.152140
 0.003024   1.272442   166.111547
0.57748    8.872925   83.602965    1.152140
 0.003024   0.789487   142.578192
0.71832    8.872925   83.602965    1.152140
 0.003024   0.260205   126.260035
0.85916    8.872925   83.602965    1.152140
 0.003024   0.191328   119.286248
1.00000    8.872925   83.602965    1.152140
 0.003024   0.732099   131.854818

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664   -8.586579   -95.558158   -1.286929
-0.003040  -1.425860   -100.366801
0.57748   -8.586579   -95.558158   -1.286929
-0.003040  -0.868591   -72.135511
0.71832   -8.586579   -95.558158   -1.286929
-0.003040  -0.354469   -55.810495
0.85916   -8.586579   -95.558158   -1.286929
-0.003040  -0.174854   -42.463336
1.00000   -8.586579   -95.558158   -1.286929
-0.003040  -0.656113   -51.537807

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664    9.265321    7.827885    0.528175
 0.000314   0.587026    6.902207
0.57748    9.265321    7.827885    0.528175
 0.000314   0.365886    5.416953
0.71832    9.265321    7.827885    0.528175
 0.000314   0.144666    4.720386
0.85916    9.265321    7.827885    0.528175
 0.000314   0.084434    4.070112
1.00000    9.265321    7.827885    0.528175
 0.000314   0.332492    3.433861

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664   -0.313639   -77.401259   -0.591010
-0.000595  -0.658363   -142.867840
0.57748   -0.313639   -77.401259   -0.591010
-0.000595  -0.410552   -112.022266
0.71832   -0.313639   -77.401259   -0.591010
-0.000595  -0.162547   -81.579397
0.85916   -0.313639   -77.401259   -0.591010
-0.000595  -0.075913   -51.162649
1.00000   -0.313639   -77.401259   -0.591010
-0.000595  -0.297193   -20.757613

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664   15.312319   30.540726    0.701455
 0.006223   0.752811   91.472576
0.57748   15.312319   30.540726    0.701455
 0.006223   0.458978   84.111944
0.71832   15.312319   30.540726    0.701455
 0.006223   0.190306   90.826284
0.85916   15.312319   30.540726    0.701455
 0.006223   0.141919   113.456977
1.00000   15.312319   30.540726    0.701455
 0.006223   0.472876   136.440543

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664   -1.385365  -162.640612   -0.789156
-0.006607  -0.851736  -181.756249
0.57748   -1.385365  -162.640612   -0.789156
-0.006607  -0.528189  -118.664156
0.71832   -1.385365  -162.640612   -0.789156
-0.006607  -0.214789   -81.779181
0.85916   -1.385365  -162.640612   -0.789156
-0.006607  -0.129674   -46.650477
1.00000   -1.385365  -162.640612   -0.789156
-0.006607  -0.422765   -13.550925
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3165

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664   13.478459   69.534988    0.913619
 0.004715   0.996408   185.747268
0.57748   13.478459   69.534988    0.913619
 0.004715   0.613256   160.910147
0.71832   13.478459   69.534988    0.913619
 0.004715   0.249448   146.383326
0.85916   13.478459   69.534988    0.913619
 0.004715   0.166044   143.329609
1.00000   13.478459   69.534988    0.913619
 0.004715   0.599033   140.687010

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664   -4.947258  -134.979114   -1.031191
-0.005048  -1.130396  -160.892483
0.57748   -4.947258  -134.979114   -1.031191
-0.005048  -0.703174  -108.394647
0.71832   -4.947258  -134.979114   -1.031191
-0.005048  -0.282446   -74.897403
0.85916   -4.947258  -134.979114   -1.031191
-0.005048  -0.151484   -42.678267
1.00000   -4.947258  -134.979114   -1.031191
-0.005048  -0.532888   -12.743197

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664   11.583209   78.519827    1.165324
 0.004218   1.280638   163.836915
0.57748   11.583209   78.519827    1.165324
 0.004218   0.791947   139.253707
0.71832   11.583209   78.519827    1.165324
 0.004218   0.319243   125.680603
0.85916   11.583209   78.519827    1.165324
 0.004218   0.198811   157.461598
1.00000   11.583209   78.519827    1.165324
 0.004218   0.741274   121.374568

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664   -7.334785  -115.533493   -1.291314
-0.004365  -1.424553  -138.609329
0.57748   -7.334785  -115.533493   -1.291314
-0.004365  -0.887308   -99.404084
0.71832   -7.334785  -115.533493   -1.291314
-0.004365  -0.355291   -77.891207
0.85916   -7.334785  -115.533493   -1.291314
-0.004365  -0.183666   -57.892622
1.00000   -7.334785  -115.533493   -1.291314
-0.004365  -0.670679   -40.996509

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664   16.227771   97.835900    0.920194
 0.006290   1.015788   215.344322
0.57748   16.227771   97.835900    0.920194
 0.006290   0.634229   181.420955
0.71832   16.227771   97.835900    0.920194
 0.006290   0.254683   157.274048
0.85916   16.227771   97.835900    0.920194
 0.006290   0.159928   148.607077
1.00000   16.227771   97.835900    0.920194
 0.006290   0.583957   142.206024

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664  -12.309253  -167.999592   -1.023207
-0.006697  -1.141175  -182.804698
0.57748  -12.309253  -167.999592   -1.023207
-0.006697  -0.712055  -121.087069
0.71832  -12.309253  -167.999592   -1.023207
-0.006697  -0.283025   -79.906113
0.85916  -12.309253  -167.999592   -1.023207
-0.006697  -0.145901   -60.893105
1.00000  -12.309253  -167.999592   -1.023207
-0.006697  -0.531840   -75.246396
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3166

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664   15.312319   98.844767    1.184675
 0.006223   1.320429   221.294289
0.57748   15.312319   98.844767    1.184675
 0.006223   0.823792   189.567508
0.71832   15.312319   98.844767    1.184675
 0.006223   0.327849   167.684471
0.85916   15.312319   98.844767    1.184675
 0.006223   0.198811   157.461598
1.00000   15.312319   98.844767    1.184675
 0.006223   0.753315   150.937150

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664  -11.796118  -162.640612   -1.321025
-0.006607  -1.464003  -181.756249
0.57748  -11.796118  -162.640612   -1.321025
-0.006607  -0.913901  -118.664156
0.71832  -11.796118  -162.640612   -1.321025
-0.006607  -0.363860   -81.779181
0.85916  -11.796118  -162.640612   -1.321025
-0.006607  -0.183666   -69.483046
1.00000  -11.796118  -162.640612   -1.321025
-0.006607  -0.675244   -87.569942

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664   16.227771   98.844767    1.184675
 0.006290   1.320429   221.294289
0.57748   16.227771   98.844767    1.184675
 0.006290   0.823792   189.567508
0.71832   16.227771   98.844767    1.184675
 0.006290   0.327849   167.684471
0.85916   16.227771   98.844767    1.184675
 0.006290   0.198811   157.461598
1.00000   16.227771   98.844767    1.184675
 0.006290   0.753315   150.937150

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664  -12.309253  -167.999592   -1.321025
-0.006697  -1.464003  -182.804698
0.57748  -12.309253  -167.999592   -1.321025
-0.006697  -0.913901  -121.087069
0.71832  -12.309253  -167.999592   -1.321025
-0.006697  -0.363860   -81.779181
0.85916  -12.309253  -167.999592   -1.321025
-0.006697  -0.183666   -69.483046
1.00000  -12.309253  -167.999592   -1.321025
-0.006697  -0.675244   -87.569942

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43664   16.227771   98.844767    1.184675
 0.006290   1.320429   221.294289
0.57748   16.227771   98.844767    1.184675
 0.006290   0.823792   189.567508
0.71832   16.227771   98.844767    1.184675
 0.006290   0.327849   167.684471
0.85916   16.227771   98.844767    1.184675
 0.006290   0.198811   157.461598
1.00000   16.227771   98.844767    1.184675
 0.006290   0.753315   150.937150

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43664  -12.309253  -167.999592   -1.321025
-0.006697  -1.464003  -182.804698
0.57748  -12.309253  -167.999592   -1.321025
-0.006697  -0.913901  -121.087069
0.71832  -12.309253  -167.999592   -1.321025
-0.006697  -0.363860   -81.779181
0.85916  -12.309253  -167.999592   -1.321025
-0.006697  -0.183666   -69.483046
1.00000  -12.309253  -167.999592   -1.321025
-0.006697  -0.675244   -87.569942
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3167

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      297 ================ LENGTH
=    2.977365

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    0.053451   18.619732    0.518600
 0.000279   0.291926   6.040883
0.14084    0.053451   18.619732    0.518600
 0.000279   0.074402   7.779756
0.28169    0.053451   18.619732    0.518600
 0.000279   0.148671   9.601260
0.42253    0.053451   18.619732    0.518600
 0.000279   0.370612   11.442490
0.56337    0.053451   18.619732    0.518600
 0.000279   0.592555   13.296001

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -5.017702   -4.433521   -0.529272
-1.06E-05  -0.295248   -53.919441
0.14084   -5.017702   -4.433521   -0.529272
-1.06E-05  -0.073298   -61.608263
0.28169   -5.017702   -4.433521   -0.529272
-1.06E-05  -0.143042   -69.316928
0.42253   -5.017702   -4.433521   -0.529272
-1.06E-05  -0.360486   -77.042047
0.56337   -5.017702   -4.433521   -0.529272
-1.06E-05  -0.577956   -84.801842

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    0.518599   46.177693    0.853992
 0.000765   0.481287   12.241934
0.14084    0.518599   46.177693    0.853992
 0.000765   0.123098   12.925294
0.28169    0.518599   46.177693    0.853992
 0.000765   0.250541   14.231190
0.42253    0.518599   46.177693    0.853992
 0.000765   0.625019   16.358518
0.56337    0.518599   46.177693    0.853992
 0.000765   0.999535   18.831667

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -9.172941   -6.293843   -0.893304
-0.000278  -0.499492   -75.277304
0.14084   -9.172941   -6.293843   -0.893304
-0.000278  -0.124940   -91.869609
0.28169   -9.172941   -6.293843   -0.893304
-0.000278  -0.235707   -109.004925
0.42253   -9.172941   -6.293843   -0.893304
-0.000278  -0.593108   -126.346027
0.56337   -9.172941   -6.293843   -0.893304
-0.000278  -0.951203   -144.714687

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    0.767713   96.801239    0.918286
 0.000909   0.616406   61.781101
0.14084    0.767713   96.801239    0.918286
 0.000909   0.131239   40.650327
0.28169    0.767713   96.801239    0.918286
 0.000909   0.279805   35.585550
0.42253    0.767713   96.801239    0.918286
 0.000909   0.698812   34.727332
0.56337    0.767713   96.801239    0.918286
 0.000909   1.117779   35.207498

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -12.151777   -5.856688   -0.999113
-0.000425  -0.558158   -66.606474
0.14084   -12.151777   -5.856688   -0.999113
-0.000425  -0.139140   -78.554164
0.28169   -12.151777   -5.856688   -0.999113
-0.000425  -0.253758   -92.073789
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3168

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.42253   -12.151777   -5.856688   -0.999113
-0.000425  -0.638845   -129.367967
0.56337   -12.151777   -5.856688   -0.999113
-0.000425  -1.023927   -169.663772

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    5.213872   119.227580    0.928447
 0.004256   0.537909   134.701698
0.14084    5.213872   119.227580    0.928447
 0.004256   0.148573   119.901453
0.28169    5.213872   119.227580    0.928447
 0.004256   0.277019   118.313451
0.42253    5.213872   119.227580    0.928447
 0.004256   0.691370   128.933097
0.56337    5.213872   119.227580    0.928447
 0.004256   1.106486   147.112325

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -12.181718   -53.709123   -0.993679
-0.004050  -0.571056   -57.466094
0.14084   -12.181718   -53.709123   -0.993679
-0.004050  -0.154454   -68.204764
0.28169   -12.181718   -53.709123   -0.993679
-0.004050  -0.255505   -80.402786
0.42253   -12.181718   -53.709123   -0.993679
-0.004050  -0.631274   -112.188598
0.56337   -12.181718   -53.709123   -0.993679
-0.004050  -1.020319   -154.025609

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    0.650948   40.252386    0.324729
 0.000394   0.182483   14.090631
0.14084    0.650948   40.252386    0.324729
 0.000394   0.046306   8.860119
0.28169    0.650948   40.252386    0.324729
 0.000394   0.102786   7.335361
0.42253    0.650948   40.252386    0.324729
 0.000394   0.257271   6.790209
0.56337    0.650948   40.252386    0.324729
 0.000394   0.411782   6.666977

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -4.915189   -1.384243   -0.368468
-0.000206  -0.206344   -11.546486
0.14084   -4.915189   -1.384243   -0.368468
-0.000206  -0.051850   -15.467796
0.28169   -4.915189   -1.384243   -0.368468
-0.000206  -0.089843   -30.371537
0.42253   -4.915189   -1.384243   -0.368468
-0.000206  -0.226016   -46.415978
0.56337   -4.915189   -1.384243   -0.368468
-0.000206  -0.362178   -62.961128

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    1.473224   135.361740    0.474623
 0.005462   0.287692   142.453043
0.14084    1.473224   135.361740    0.474623
 0.005462   0.088721   96.352241
0.28169    1.473224   135.361740    0.474623
 0.005462   0.141944   67.559333
0.42253    1.473224   135.361740    0.474623
 0.005462   0.353175   55.179067
0.56337    1.473224   135.361740    0.474623
 0.005462   0.565457   53.100648

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -10.121804   -9.050360   -0.511369
-0.005289  -0.307056   -11.351254
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3169

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.14084   -10.121804   -9.050360   -0.511369
-0.005289  -0.092712   -15.461314
0.28169   -10.121804   -9.050360   -0.511369
-0.005289  -0.130548   -21.547795
0.42253   -10.121804   -9.050360   -0.511369
-0.005289  -0.311000   -53.643028
0.56337   -10.121804   -9.050360   -0.511369
-0.005289  -0.509630   -99.288257

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    1.537115   138.221573    0.825400
 0.005165   0.483097   132.091875
0.14084    1.537115   138.221573    0.825400
 0.005165   0.136967   91.796272
0.28169    1.537115   138.221573    0.825400
 0.005165   0.243489   67.105076
0.42253    1.537115   138.221573    0.825400
 0.005165   0.606261   57.190528
0.56337    1.537115   138.221573    0.825400
 0.005165   0.970015   56.583593

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -12.964744   -11.189867   -0.872088
-0.004773  -0.506125   -49.002851
0.14084   -12.964744   -11.189867   -0.872088
-0.004773  -0.140531   -59.304955
0.28169   -12.964744   -11.189867   -0.872088
-0.004773  -0.227377   -71.552206
0.42253   -12.964744   -11.189867   -0.872088
-0.004773  -0.556724   -107.457351
0.56337   -12.964744   -11.189867   -0.872088
-0.004773  -0.902486   -155.257675

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    7.932718   110.186635    0.892430
 0.003734   0.514825   119.732932
0.14084    7.932718   110.186635    0.892430
 0.003734   0.140576   116.058639
0.28169    7.932718   110.186635    0.892430
 0.003734   0.272008   125.999615
0.42253    7.932718   110.186635    0.892430
 0.003734   0.680499   146.443737
0.56337    7.932718   110.186635    0.892430
 0.003734   1.089590   173.244849

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -10.673238   -73.090817   -0.978576
-0.003607  -0.560645   -43.966827
0.14084   -10.673238   -73.090817   -0.978576
-0.003607  -0.150280   -53.514611
0.28169   -10.673238   -73.090817   -0.978576
-0.003607  -0.245592   -64.589255
0.42253   -10.673238   -73.090817   -0.978576
-0.003607  -0.608826   -95.580873
0.56337   -10.673238   -73.090817   -0.978576
-0.003607  -0.962825   -135.029470

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000    9.904335    5.737195    0.389204
 0.000442   0.219471    2.874021
0.14084    9.904335    5.737195    0.389204
 0.000442   0.056259   23.949787
0.28169    9.904335    5.737195    0.389204
 0.000442   0.122763   56.842387
0.42253    9.904335    5.737195    0.389204
```

0.000442 0.310625 90.003817
0.56337 9.904335 5.737195 0.389204
0.000442 0.498484 123.266457
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3170

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.348210	-79.503670	-0.447991
-0.000785	-0.252982	-11.128884	
0.14084	-0.348210	-79.503670	-0.447991
-0.000785	-0.065013	-7.523074	
0.28169	-0.348210	-79.503670	-0.447991
-0.000785	-0.106964	-9.105094	
0.42253	-0.348210	-79.503670	-0.447991
-0.000785	-0.270159	-10.893214	
0.56337	-0.348210	-79.503670	-0.447991
-0.000785	-0.433368	-13.075747	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.294222	87.893715	0.543131
0.006407	0.331773	125.197926	
0.14084	12.294222	87.893715	0.543131
0.006407	0.104019	131.141834	
0.28169	12.294222	87.893715	0.543131
0.006407	0.158356	141.663007	
0.42253	12.294222	87.893715	0.543131
0.006407	0.397272	169.264554	
0.56337	12.294222	87.893715	0.543131
0.006407	0.637547	208.495712	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.643243	-106.144244	-0.579178
-0.006806	-0.351839	-7.430527	
0.14084	-4.643243	-106.144244	-0.579178
-0.006806	-0.109070	-9.839034	
0.28169	-4.643243	-106.144244	-0.579178
-0.006806	-0.148308	-12.306610	
0.42253	-4.643243	-106.144244	-0.579178
-0.006806	-0.353424	-17.155699	
0.56337	-4.643243	-106.144244	-0.579178
-0.006806	-0.580690	-39.224476	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.494644	114.511484	0.701771
0.004887	0.412680	124.142146	
0.14084	11.494644	114.511484	0.701771
0.004887	0.118471	120.502645	
0.28169	11.494644	114.511484	0.701771
0.004887	0.217054	132.778910	
0.42253	11.494644	114.511484	0.701771
0.004887	0.545010	159.026325	
0.56337	11.494644	114.511484	0.701771
0.004887	0.873905	193.986738	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.980368	-95.412939	-0.788553
-0.005137	-0.461062	-8.493988	
0.14084	-7.980368	-95.412939	-0.788553
-0.005137	-0.130386	-10.733149	
0.28169	-7.980368	-95.412939	-0.788553
-0.005137	-0.192737	-15.050725	
0.42253	-7.980368	-95.412939	-0.788553
-0.005137	-0.471503	-43.303995	
0.56337	-7.980368	-95.412939	-0.788553
-0.005137	-0.765465	-82.253106	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.943258	112.291306	0.897519
0.004274	0.519699	105.554111	
0.14084	9.943258	112.291306	0.897519
0.004274	0.143352	103.466121	
0.28169	9.943258	112.291306	0.897519
0.004274	0.273901	114.629652	
0.42253	9.943258	112.291306	0.897519
0.004274	0.682008	137.441786	
0.56337	9.943258	112.291306	0.897519
0.004274	1.099298	167.411628	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3171

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.907399	-81.539960	-0.988608
-0.004280	-0.569160	-34.230441	
0.14084	-9.907399	-81.539960	-0.988608
-0.004280	-0.154584	-42.765777	
0.28169	-9.907399	-81.539960	-0.988608
-0.004280	-0.246974	-52.824192	
0.42253	-9.907399	-81.539960	-0.988608
-0.004280	-0.610510	-82.560485	
0.56337	-9.907399	-81.539960	-0.988608
-0.004280	-0.986601	-121.785968	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.065223	23.820668	0.674696
0.000230	0.379248	10.972724	
0.14084	0.065223	23.820668	0.674696
0.000230	0.096874	13.840160	
0.28169	0.065223	23.820668	0.674696
0.000230	0.198882	16.780262	
0.42253	0.065223	23.820668	0.674696
0.000230	0.498634	19.741335	
0.56337	0.065223	23.820668	0.674696
0.000230	0.798360	22.711088	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.677460	-7.092852	-0.714830
-7.70E-06	-0.400105	-64.705284	
0.14084	-5.677460	-7.092852	-0.714830
-7.70E-06	-0.099914	-74.561448	
0.28169	-5.677460	-7.092852	-0.714830
-7.70E-06	-0.184766	-84.472617	
0.42253	-5.677460	-7.092852	-0.714830
-7.70E-06	-0.467226	-94.414390	
0.56337	-5.677460	-7.092852	-0.714830
-7.70E-06	-0.750839	-104.379088	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.615826	53.164725	1.105114
0.000586	0.620737	17.721291	
0.14084	0.615826	53.164725	1.105114
0.000586	0.158325	20.023065	
0.28169	0.615826	53.164725	1.105114
0.000586	0.326888	23.181276	
0.42253	0.615826	53.164725	1.105114
0.000586	0.823052	26.792812	
0.56337	0.615826	53.164725	1.105114
0.000586	1.318826	30.725383	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.344145	-9.745355	-1.182356
-0.000201	-0.663789	-87.610734	
0.14084	-9.344145	-9.745355	-1.182356
-0.000201	-0.167123	-107.072348	
0.28169	-9.344145	-9.745355	-1.182356
-0.000201	-0.303514	-127.306223	
0.42253	-9.344145	-9.745355	-1.182356
-0.000201	-0.765719	-148.381925	
0.56337	-9.344145	-9.745355	-1.182356
-0.000201	-1.230204	-170.132143	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.900926	97.908368	1.189884
0.000742	0.666198	80.645729	
0.14084	0.900926	97.908368	1.189884
0.000742	0.168943	62.539377	
0.28169	0.900926	97.908368	1.189884
0.000742	0.361427	51.399379	
0.42253	0.900926	97.908368	1.189884
0.000742	0.910753	48.601302	
0.56337	0.900926	97.908368	1.189884
0.000742	1.459214	43.148165	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3172

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.677691	-9.671414	-1.307173
-0.000359	-0.732053	-77.634372	
0.14084	-11.677691	-9.671414	-1.307173
-0.000359	-0.182399	-92.957971	
0.28169	-11.677691	-9.671414	-1.307173
-0.000359	-0.328060	-110.268919	
0.42253	-11.677691	-9.671414	-1.307173
-0.000359	-0.825859	-145.356802	
0.56337	-11.677691	-9.671414	-1.307173
-0.000359	-1.325306	-183.416110	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.016980	112.914285	1.192612
0.003325	0.681876	147.469689	
0.14084	5.016980	112.914285	1.192612
0.003325	0.183737	138.809670	
0.28169	5.016980	112.914285	1.192612
0.003325	0.362968	135.884885	
0.42253	5.016980	112.914285	1.192612
0.003325	0.908934	145.953381	
0.56337	5.016980	112.914285	1.192612
0.003325	1.458999	164.038915	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.450847	-55.266734	-1.319033
-0.003159	-0.752403	-67.707978	
0.14084	-11.450847	-55.266734	-1.319033
-0.003159	-0.198283	-81.662392	
0.28169	-11.450847	-55.266734	-1.319033
-0.003159	-0.326647	-97.442810	
0.42253	-11.450847	-55.266734	-1.319033
-0.003159	-0.814044	-127.725362	
0.56337	-11.450847	-55.266734	-1.319033
-0.003159	-1.314582	-168.204695	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.709698	38.351436	0.415760
0.000319	0.232490	16.884472	
0.14084	0.709698	38.351436	0.415760
0.000319	0.058731	9.559369	
0.28169	0.709698	38.351436	0.415760
0.000319	0.126316	7.415770	
0.42253	0.709698	38.351436	0.415760
0.000319	0.321292	6.851983	
0.56337	0.709698	38.351436	0.415760
0.000319	0.515484	6.850083	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.158880	-1.606064	-0.462668
-0.000174	-0.260163	-11.353755	
0.14084	-4.158880	-1.606064	-0.462668
-0.000174	-0.065763	-17.054758	
0.28169	-4.158880	-1.606064	-0.462668
-0.000174	-0.114853	-29.889577	
0.42253	-4.158880	-1.606064	-0.462668
-0.000174	-0.288966	-44.783918	
0.56337	-4.158880	-1.606064	-0.462668
-0.000174	-0.463654	-60.270920	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.600650	121.983298	0.586343
0.004661	0.347271	150.942952	
0.14084	1.600650	121.983298	0.586343
0.004661	0.104688	110.589554	
0.28169	1.600650	121.983298	0.586343
0.004661	0.180997	77.791988	
0.42253	1.600650	121.983298	0.586343
0.004661	0.449229	63.553859	
0.56337	1.600650	121.983298	0.586343
0.004661	0.724030	60.719122	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3173

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.725804	-9.892706	-0.666387
-0.004533	-0.393531	-11.453185	
0.14084	-8.725804	-9.892706	-0.666387
-0.004533	-0.113249	-16.192839	
0.28169	-8.725804	-9.892706	-0.666387
-0.004533	-0.160461	-24.343442	
0.42253	-8.725804	-9.892706	-0.666387
-0.004533	-0.388157	-51.022802	
0.56337	-8.725804	-9.892706	-0.666387
-0.004533	-0.633537	-92.520871	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.627427	130.765824	1.043804
0.004410	0.602342	143.251606	
0.14084	1.627427	130.765824	1.043804
0.004410	0.167818	108.780431	
0.28169	1.627427	130.765824	1.043804
0.004410	0.314997	81.161800	
0.42253	1.627427	130.765824	1.043804
0.004410	0.786235	70.389437	
0.56337	1.627427	130.765824	1.043804
0.004410	1.263375	69.874986	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.927789	-13.757830	-1.147754
-0.004094	-0.661414	-55.690623	
0.14084	-11.927789	-13.757830	-1.147754
-0.004094	-0.178885	-68.381327	
0.28169	-11.927789	-13.757830	-1.147754
-0.004094	-0.286025	-84.445093	
0.42253	-11.927789	-13.757830	-1.147754
-0.004094	-0.707250	-117.060582	
0.56337	-11.927789	-13.757830	-1.147754
-0.004094	-1.144875	-163.034854	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.487128	104.634233	1.155187
0.002939	0.656391	131.828451	
0.14084	7.487128	104.634233	1.155187
0.002939	0.176841	132.679343	
0.28169	7.487128	104.634233	1.155187
0.002939	0.354352	139.397853	
0.42253	7.487128	104.634233	1.155187
0.002939	0.889759	158.345292	
0.56337	7.487128	104.634233	1.155187
0.002939	1.428421	184.270446	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.711793	-72.969456	-1.290281
-0.002878	-0.734656	-51.542845	
0.14084	-9.711793	-72.969456	-1.290281
-0.002878	-0.192438	-63.633500	
0.28169	-9.711793	-72.969456	-1.290281
-0.002878	-0.316544	-78.388412	
0.42253	-9.711793	-72.969456	-1.290281
-0.002878	-0.790559	-107.382097	
0.56337	-9.711793	-72.969456	-1.290281
-0.002878	-1.275057	-145.148288	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.326087	7.818642	0.527871
0.000357	0.297013	3.430660	
0.14084	9.326087	7.818642	0.527871
0.000357	0.076033	23.236852	
0.28169	9.326087	7.818642	0.527871
0.000357	0.163296	55.086029	
0.42253	9.326087	7.818642	0.527871
0.000357	0.412951	87.342207	
0.56337	9.326087	7.818642	0.527871
0.000357	0.662447	119.814804	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3174

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.304298	-77.875587	-0.594913
-0.000668	-0.334975	-20.787294	
0.14084	-0.304298	-77.875587	-0.594913
-0.000668	-0.085086	-13.368546	
0.28169	-0.304298	-77.875587	-0.594913
-0.000668	-0.144551	-15.694197	
0.42253	-0.304298	-77.875587	-0.594913
-0.000668	-0.365643	-18.433190	
0.56337	-0.304298	-77.875587	-0.594913
-0.000668	-0.586815	-21.561447	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.596933	86.918226	0.705126
0.006299	0.425456	136.473856	
0.14084	11.596933	86.918226	0.705126
0.006299	0.130920	141.832060	
0.28169	11.596933	86.918226	0.705126
0.006299	0.215577	151.571883	
0.42253	11.596933	86.918226	0.705126
0.006299	0.910753	175.805987	
0.56337	11.596933	86.918226	0.705126
0.006299	0.855814	212.950147	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.532043	-102.944419	-0.792614
-0.006652	-0.474067	-13.555179	
0.14084	-4.532043	-102.944419	-0.792614
-0.006652	-0.142027	-16.169373	
0.28169	-4.532043	-102.944419	-0.792614
-0.006652	-0.190258	-19.978221	
0.42253	-4.532043	-102.944419	-0.792614
-0.006652	-0.460792	-26.308781	
0.56337	-4.532043	-102.944419	-0.792614
-0.006652	-0.756010	-52.219569	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.823717	109.798293	0.912425
0.004917	0.532301	140.682326	
0.14084	10.823717	109.798293	0.912425
0.004917	0.152212	137.096892	
0.28169	10.823717	109.798293	0.912425
0.004917	0.283435	140.699679	
0.42253	10.823717	109.798293	0.912425
0.004917	0.707125	162.029385	
0.56337	10.823717	109.798293	0.912425
0.004917	1.138022	194.271661	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.161351	-92.095130	-1.038911
-0.005142	-0.603941	-12.740865	
0.14084	-7.161351	-92.095130	-1.038911
-0.005142	-0.167444	-15.721501	
0.28169	-7.161351	-92.095130	-1.038911
-0.005142	-0.249035	-23.268738	
0.42253	-7.161351	-92.095130	-1.038911
-0.005142	-0.612885	-45.813915	
0.56337	-7.161351	-92.095130	-1.038911
-0.005142	-0.994895	-82.711837	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.383940	111.746826	1.165238
0.004267	0.670138	121.380286	
0.14084	9.383940	111.746826	1.165238
0.004267	0.184356	119.893430	
0.28169	9.383940	111.746826	1.165238
0.004267	0.355834	124.304422	
0.42253	9.383940	111.746826	1.165238
0.004267	0.890976	143.410741	
0.56337	9.383940	111.746826	1.165238
0.004267	1.431831	171.604134	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3175

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.150147	-79.934488	-1.299257
-0.004299	-0.746705	-41.009648	
0.14084	-9.150147	-79.934488	-1.299257
-0.004299	-0.200743	-51.591387	
0.28169	-9.150147	-79.934488	-1.299257
-0.004299	-0.319084	-65.720760	
0.42253	-9.150147	-79.934488	-1.299257
-0.004299	-0.791897	-92.678337	
0.56337	-9.150147	-79.934488	-1.299257
-0.004299	-1.280290	-131.695479	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.294222	138.221573	0.928447
0.006407	0.537909	142.453043	
0.14084	12.294222	138.221573	0.928447
0.006407	0.148573	131.141834	
0.28169	12.294222	138.221573	0.928447
0.006407	0.279805	141.663007	
0.42253	12.294222	138.221573	0.928447
0.006407	0.698812	169.264554	
0.56337	12.294222	138.221573	0.928447
0.006407	1.117779	208.495712	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.964744	-106.144244	-0.999113
-0.006806	-0.571056	-75.277304	
0.14084	-12.964744	-106.144244	-0.999113
-0.006806	-0.154584	-91.869609	
0.28169	-12.964744	-106.144244	-0.999113
-0.006806	-0.255505	-109.004925	
0.42253	-12.964744	-106.144244	-0.999113
-0.006806	-0.638845	-129.367967	
0.56337	-12.964744	-106.144244	-0.999113
-0.006806	-1.023927	-169.663772	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.596933	130.765824	1.192612
0.006299	0.681876	150.942952	
0.14084	11.596933	130.765824	1.192612
0.006299	0.184356	141.832060	
0.28169	11.596933	130.765824	1.192612
0.006299	0.362968	151.571883	
0.42253	11.596933	130.765824	1.192612
0.006299	0.910753	175.805987	
0.56337	11.596933	130.765824	1.192612
0.006299	1.459214	212.950147	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.927789	-102.944419	-1.319033
-0.006652	-0.752403	-87.610734	
0.14084	-11.927789	-102.944419	-1.319033
-0.006652	-0.200743	-107.072348	
0.28169	-11.927789	-102.944419	-1.319033
-0.006652	-0.328060	-127.306223	
0.42253	-11.927789	-102.944419	-1.319033
-0.006652	-0.825859	-148.381925	
0.56337	-11.927789	-102.944419	-1.319033
-0.006652	-1.325306	-183.416110	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.294222	138.221573	1.192612
0.006407	0.681876	150.942952	
0.14084	12.294222	138.221573	1.192612
0.006407	0.184356	141.832060	
0.28169	12.294222	138.221573	1.192612
0.006407	0.362968	151.571883	
0.42253	12.294222	138.221573	1.192612
0.006407	0.910753	175.805987	
0.56337	12.294222	138.221573	1.192612
0.006407	1.459214	212.950147	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3176

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.964744	-106.144244	-1.319033
-0.006806	-0.752403	-87.610734	
0.14084	-12.964744	-106.144244	-1.319033
-0.006806	-0.200743	-107.072348	
0.28169	-12.964744	-106.144244	-1.319033
-0.006806	-0.328060	-127.306223	
0.42253	-12.964744	-106.144244	-1.319033
-0.006806	-0.825859	-148.381925	
0.56337	-12.964744	-106.144244	-1.319033
-0.006806	-1.325306	-183.416110	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.294222	138.221573	1.192612
0.006407	0.681876	150.942952	
0.14084	12.294222	138.221573	1.192612
0.006407	0.184356	141.832060	
0.28169	12.294222	138.221573	1.192612
0.006407	0.362968	151.571883	
0.42253	12.294222	138.221573	1.192612
0.006407	0.910753	175.805987	
0.56337	12.294222	138.221573	1.192612
0.006407	1.459214	212.950147	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.964744	-106.144244	-1.319033
-0.006806	-0.752403	-87.610734	
0.14084	-12.964744	-106.144244	-1.319033
-0.006806	-0.200743	-107.072348	
0.28169	-12.964744	-106.144244	-1.319033
-0.006806	-0.328060	-127.306223	
0.42253	-12.964744	-106.144244	-1.319033
-0.006806	-0.825859	-148.381925	
0.56337	-12.964744	-106.144244	-1.319033
-0.006806	-1.325306	-183.416110	

ELEM 298 ========== LENGTH = 2.977475

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.049195	18.664687	0.463925
1.68E-05	0.518820	1.928332	
0.57746	0.049195	18.664687	0.463925
1.68E-05	0.324266	2.327779	
0.71831	0.049195	18.664687	0.463925
1.68E-05	0.129736	2.905592	
0.85915	0.049195	18.664687	0.463925
1.68E-05	0.059091	4.383269	
1.00000	0.049195	18.664687	0.463925
1.68E-05	0.233106	6.023251	

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -5.053392 -4.476989 -0.414944
-0.000542 -0.462953 -23.994394
0.57746 -5.053392 -4.476989 -0.414944
-0.000542 -0.288939 -31.402288
0.71831 -5.053392 -4.476989 -0.414944
-0.000542 -0.114923 -38.835169
0.85915 -5.053392 -4.476989 -0.414944
-0.000542 -0.064809 -46.287102
1.00000 -5.053392 -4.476989 -0.414944
-0.000542 -0.259403 -53.841830

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.635315 44.843570 0.763944
0.000597 0.853502 31.359384
0.57746 0.635315 44.843570 0.763944
0.000597 0.533159 22.988639
0.71831 0.635315 44.843570 0.763944
0.000597 0.213507 15.840465
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3177

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85915 0.635315 44.843570 0.763944
0.000597 0.102744 11.445903
1.00000 0.635315 44.843570 0.763944
0.000597 0.400901 12.198983

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -9.151177 -8.255702 -0.712344
-0.001221 -0.794090 -27.610288
0.57746 -9.151177 -8.255702 -0.712344
-0.001221 -0.495356 -36.720407
0.71831 -9.151177 -8.255702 -0.712344
-0.001221 -0.196608 -47.611492
0.85915 -9.151177 -8.255702 -0.712344
-0.001221 -0.107574 -60.805362
1.00000 -9.151177 -8.255702 -0.712344
-0.001221 -0.427997 -75.192144

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.740222 97.707935 0.812692
0.000401 0.908381 179.207275
0.57746 0.740222 97.707935 0.812692
0.000401 0.567571 147.709801
0.71831 0.740222 97.707935 0.812692
0.000401 0.226763 116.842390
0.85915 0.740222 97.707935 0.812692
0.000401 0.113208 87.755732
1.00000 0.740222 97.707935 0.812692
0.000401 0.444594 61.704319

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -12.290353 -5.899827 -0.790040
-0.000924 -0.880681 -24.265934
0.57746 -12.290353 -5.899827 -0.790040
-0.000924 -0.549363 -33.294749
0.71831 -12.290353 -5.899827 -0.790040
-0.000924 -0.218040 -43.131174
0.85915 -12.290353 -5.899827 -0.790040
-0.000924 -0.113931 -54.512534
1.00000 -12.290353 -5.899827 -0.790040
-0.000924 -0.454912 -66.507024

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 7.565819 85.300226 0.922256
0.004212 1.016762 165.042143
0.57746 7.565819 85.300226 0.922256
0.004212 0.630806 140.558019
0.71831 7.565819 85.300226 0.922256
0.004212 0.258411 124.419731
0.85915 7.565819 85.300226 0.922256
0.004212 0.132654 122.053902
1.00000 7.565819 85.300226 0.922256
0.004212 0.475693 134.421194

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -10.483996 -90.874556 -0.843014
-0.004451 -0.939636 -82.207808
0.57746 -10.483996 -90.874556 -0.843014
-0.004451 -0.586102 -58.712865
0.71831 -10.483996 -90.874556 -0.843014
-0.004451 -0.232553 -48.140292
0.85915 -10.483996 -90.874556 -0.843014
-0.004451 -0.147291 -46.722273
1.00000 -10.483996 -90.874556 -0.843014
-0.004451 -0.533362 -57.462792

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.656378 40.625618 0.287899
0.000334 0.321727 72.770304
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3178

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57746 0.656378 40.625618 0.287899
0.000334 0.201003 55.776087
0.71831 0.656378 40.625618 0.287899
0.000334 0.080245 39.564911
0.85915 0.656378 40.625618 0.287899
0.000334 0.043613 24.465863
1.00000 0.656378 40.625618 0.287899
0.000334 0.169550 14.070532

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -4.964839 -1.455432 -0.300483
-0.000497 -0.334511 -3.228628
0.57746 -4.964839 -1.455432 -0.300483
-0.000497 -0.208498 -3.331283
0.71831 -4.964839 -1.455432 -0.300483
-0.000497 -0.082463 -4.411349
0.85915 -4.964839 -1.455432 -0.300483
-0.000497 -0.040441 -7.019462
1.00000 -4.964839 -1.455432 -0.300483
-0.000497 -0.161246 -11.441237

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 4.790384 88.741474 0.472774
0.005127 0.507643 215.123217
0.57746 4.790384 88.741474 0.472774
0.005127 0.310075 181.169840
0.71831 4.790384 88.741474 0.472774
0.005127 0.130684 157.088317
0.85915 4.790384 88.741474 0.472774
0.005127 0.077395 147.867085
1.00000 4.790384 88.741474 0.472774
0.005127 0.241060 142.079382

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -7.751007 -60.558572 -0.424652
-0.005153 -0.472916 -21.223052
0.57746 -7.751007 -60.558572 -0.424652
-0.005153 -0.294831 -3.763308
0.71831 -7.751007 -60.558572 -0.424652
-0.005153 -0.116724 -4.002057
0.85915 -7.751007 -60.558572 -0.424652
-0.005153 -0.087463 -7.311299
1.00000 -7.751007 -60.558572 -0.424652
-0.005153 -0.285855 -11.386424

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 4.530757 96.185234 0.780830
0.004758 0.854207 192.320445
0.57746 4.530757 96.185234 0.780830
0.004758 0.527382 162.893404
0.71831 4.530757 96.185234 0.780830
0.004758 0.216977 142.381860
0.85915 4.530757 96.185234 0.780830
0.004758 0.116217 135.777490
1.00000 4.530757 96.185234 0.780830
0.004758 0.399768 131.735398

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -10.853912 -57.724662 -0.707194
-0.005089 -0.788009 -30.129797
0.57746 -10.853912 -57.724662 -0.707194
-0.005089 -0.491434 -21.623646
0.71831 -10.853912 -57.724662 -0.707194
-0.005089 -0.194840 -28.934349
0.85915 -10.853912 -57.724662 -0.707194
-0.005089 -0.128358 -38.679795
1.00000 -10.853912 -57.724662 -0.707194
-0.005089 -0.456014 -48.981190
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3179

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 9.817070 82.811087 0.919067
0.003739 1.011515 162.240516
0.57746 9.817070 82.811087 0.919067
0.003739 0.627788 136.732307
0.71831 9.817070 82.811087 0.919067
0.003739 0.256443 117.675585
0.85915 9.817070 82.811087 0.919067
0.003739 0.133986 109.654308
1.00000 9.817070 82.811087 0.919067
0.003739 0.488925 119.518170

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -9.302061 -102.999790 -0.866635
-0.003763 -0.965832 -108.528774
0.57746 -9.302061 -102.999790 -0.866635
-0.003763 -0.602385 -77.335147
0.71831 -9.302061 -102.999790 -0.866635
-0.003763 -0.238917 -56.639238
0.85915 -9.302061 -102.999790 -0.866635
-0.003763 -0.146452 -37.756921
1.00000 -9.302061 -102.999790 -0.866635
-0.003763 -0.532056 -43.958550

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 9.806292 5.752359 0.497405
0.000744 0.549244 6.855141
0.57746 9.806292 5.752359 0.497405
0.000744 0.340652 4.951908
0.71831 9.806292 5.752359 0.497405
0.000744 0.133241 4.301798
0.85915 9.806292 5.752359 0.497405
0.000744 0.069340 3.677810
1.00000 9.806292 5.752359 0.497405
0.000744 0.272868 3.070235

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -0.325694 -78.879350 -0.485158
-0.000339 -0.540974 -143.072313
0.57746 -0.325694 -78.879350 -0.485158
-0.000339 -0.337514 -110.036091
0.71831 -0.325694 -78.879350 -0.485158
-0.000339 -0.134036 -77.027020
0.85915 -0.325694 -78.879350 -0.485158
-0.000339 -0.077594 -44.028543
1.00000 -0.325694 -78.879350 -0.485158
-0.000339 -0.286189 -11.037572

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 16.217873 30.294302 0.746960
0.006753 0.801398 85.670840
0.57746 16.217873 30.294302 0.746960
0.006753 0.489322 77.508671
0.71831 16.217873 30.294302 0.746960
0.006753 0.202086 81.300666
0.85915 16.217873 30.294302 0.746960
0.006753 0.108870 102.953657
1.00000 16.217873 30.294302 0.746960
0.006753 0.352746 124.847111

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -1.627413 -167.996984 -0.623418
-0.006224 -0.694987 -182.803125
0.57746 -1.627413 -167.996984 -0.623418
-0.006224 -0.433651 -121.049361
0.71831 -1.627413 -167.996984 -0.623418
-0.006224 -0.172079 -79.787585
0.85915 -1.627413 -167.996984 -0.623418
-0.006224 -0.139489 -40.223138
1.00000 -1.627413 -167.996984 -0.623418
-0.006224 -0.452748 -7.504153
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3180

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 14.147530 75.520352 0.819029
0.004979 0.890384 186.122247
0.57746 14.147530 75.520352 0.819029
0.004979 0.547839 157.746172
0.71831 14.147530 75.520352 0.819029
0.004979 0.223097 137.617294
0.85915 14.147530 75.520352 0.819029
0.004979 0.124021 130.047529
1.00000 14.147530 75.520352 0.819029
0.004979 0.435421 123.909605

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -5.976793 -137.648663 -0.771069
-0.004524 -0.859393 -162.376621
0.57746 -5.976793 -137.648663 -0.771069
-0.004524 -0.536031 -110.866137
0.71831 -5.976793 -137.648663 -0.771069
-0.004524 -0.212637 -73.444678
0.85915 -5.976793 -137.648663 -0.771069
-0.004524 -0.140726 -37.245488
1.00000 -5.976793 -137.648663 -0.771069
-0.004524 -0.484371 -8.463548

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 12.145798 80.254512 0.960486
0.004312 1.052936 163.729195
0.57746 12.145798 80.254512 0.960486
0.004312 0.650913 136.142040
0.71831 12.145798 80.254512 0.960486
0.004312 0.263625 117.197456
0.85915 12.145798 80.254512 0.960486
0.004312 0.141520 109.502631
1.00000 12.145798 80.254512 0.960486
0.004312 0.512498 105.337645

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -8.277402 -116.467269 -0.908212
-0.004150 -1.012134 -139.795917
0.57746 -8.277402 -116.467269 -0.908212
-0.004150 -0.631259 -101.477665
0.71831 -8.277402 -116.467269 -0.908212
-0.004150 -0.250357 -75.403184
0.85915 -8.277402 -116.467269 -0.908212
-0.004150 -0.156025 -51.458217
1.00000 -8.277402 -116.467269 -0.908212
-0.004150 -0.558936 -34.185278

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.055230 24.079899 0.593814
1.19E-05 0.664112 2.149520
0.57746 0.055230 24.079899 0.593814
1.19E-05 0.415159 3.286276
0.71831 0.055230 24.079899 0.593814
1.19E-05 0.166273 5.612655
0.85915 0.055230 24.079899 0.593814
1.19E-05 0.074842 8.270678
1.00000 0.055230 24.079899 0.593814
1.19E-05 0.302818 11.042130

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -5.698675 -7.219919 -0.541795
-0.000465 -0.605935 -26.770233
0.57746 -5.698675 -7.219919 -0.541795
-0.000465 -0.376555 -35.362223
0.71831 -5.698675 -7.219919 -0.541795
-0.000465 -0.150504 -45.125314
0.85915 -5.698675 -7.219919 -0.541795
-0.000465 -0.082404 -54.910144
1.00000 -5.698675 -7.219919 -0.541795
-0.000465 -0.331019 -64.771940
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3181

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.678085 52.682865 0.982173
0.000480 1.097678 33.449611
0.57746 0.678085 52.682865 0.982173
0.000480 0.685863 25.563926
0.71831 0.678085 52.682865 0.982173
0.000480 0.274289 19.846073
0.85915 0.678085 52.682865 0.982173
0.000480 0.150410 15.922622
1.00000 0.678085 52.682865 0.982173
0.000480 0.497125 17.808877

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -9.323068 -11.044110 -0.888459
-0.000990 -0.992645 -29.786755
0.57746 -9.323068 -11.044110 -0.888459
-0.000990 -0.619771 -40.828349
0.71831 -9.323068 -11.044110 -0.888459
-0.000990 -0.245960 -54.699315
0.85915 -9.323068 -11.044110 -0.888459
-0.000990 -0.137363 -69.563088
1.00000 -9.323068 -11.044110 -0.888459
-0.000990 -0.548637 -87.747611

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.890788 98.865647 1.098445
0.000380 1.227421 182.574283
0.57746 0.890788 98.865647 1.098445
0.000380 0.766995 154.152863
0.71831 0.890788 98.865647 1.098445
0.000380 0.306806 127.417071
0.85915 0.890788 98.865647 1.098445
0.000380 0.136587 102.019883
1.00000 0.890788 98.865647 1.098445
0.000380 0.552165 80.629620

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -11.779937 -9.827985 -0.988387
-0.000808 -1.103770 -26.911198
0.57746 -11.779937 -9.827985 -0.988387
-0.000808 -0.688688 -37.129882
0.71831 -11.779937 -9.827985 -0.988387
-0.000808 -0.272719 -49.335452
0.85915 -11.779937 -9.827985 -0.988387
-0.000808 -0.153139 -62.432326
1.00000 -11.779937 -9.827985 -0.988387
-0.000808 -0.613155 -77.748606

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 6.714965 87.569168 1.239870
0.003363 1.373890 172.470737
0.57746 6.714965 87.569168 1.239870
0.003363 0.855092 149.768619
0.71831 6.714965 87.569168 1.239870
0.003363 0.345593 136.070421
0.85915 6.714965 87.569168 1.239870
0.003363 0.166092 135.428320
1.00000 6.714965 87.569168 1.239870
0.003363 0.625945 147.481230

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -10.065009 -82.920567 -1.100307
-0.003541 -1.227235 -77.509572
0.57746 -10.065009 -82.920567 -1.100307
-0.003541 -0.765279 -57.241533
0.71831 -10.065009 -82.920567 -1.100307
-0.003541 -0.303355 -51.614286
0.85915 -10.065009 -82.920567 -1.100307
-0.003541 -0.188687 -54.034931
1.00000 -10.065009 -82.920567 -1.100307
-0.003541 -0.707141 -67.916642
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3182

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.732175 38.600979 0.389029
0.000279 0.434343 71.978321
0.57746 0.732175 38.600979 0.389029
0.000279 0.271138 56.319998
0.71831 0.732175 38.600979 0.389029
0.000279 0.108186 41.195780
0.85915 0.732175 38.600979 0.389029
0.000279 0.048418 27.067533
1.00000 0.732175 38.600979 0.389029
0.000279 0.194002 16.893282

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -4.197716 -1.682928 -0.347133
-0.000407 -0.387207 -3.121432
0.57746 -4.197716 -1.682928 -0.347133
-0.000407 -0.241346 -3.714160
0.71831 -4.197716 -1.682928 -0.347133
-0.000407 -0.095269 -5.048204
0.85915 -4.197716 -1.682928 -0.347133
-0.000407 -0.055053 -7.122170
1.00000 -4.197716 -1.682928 -0.347133
-0.000407 -0.217678 -11.306583

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 4.289990 82.833667 0.638299
0.004440 0.695226 220.929499
0.57746 4.289990 82.833667 0.638299
0.004440 0.428467 189.204495
0.71831 4.289990 82.833667 0.638299
0.004440 0.176532 167.360907
0.85915 4.289990 82.833667 0.638299
0.004440 0.093219 157.222530
1.00000 4.289990 82.833667 0.638299
0.004440 0.311299 150.797500

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -6.581997 -52.491901 -0.529179
-0.004454 -0.588624 -22.161648
0.57746 -6.581997 -52.491901 -0.529179
-0.004454 -0.366216 -3.962634
0.71831 -6.581997 -52.491901 -0.529179
-0.004454 -0.144482 -4.534659
0.85915 -6.581997 -52.491901 -0.529179
-0.004454 -0.110883 -6.964254
1.00000 -6.581997 -52.491901 -0.529179
-0.004454 -0.377155 -11.510819

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 4.049926 95.549250 1.028044
0.004145 1.133037 197.213262
0.57746 4.049926 95.549250 1.028044
0.004145 0.702722 170.467325
0.71831 4.049926 95.549250 1.028044
0.004145 0.285656 153.263856
0.85915 4.049926 95.549250 1.028044
0.004145 0.140439 146.961151
1.00000 4.049926 95.549250 1.028044
0.004145 0.508910 143.166605

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -10.000384 -52.377962 -0.885627
-0.004399 -0.962270 -30.550280
0.57746 -10.000384 -52.377962 -0.885627
-0.004399 -0.615359 -22.303771
0.71831 -10.000384 -52.377962 -0.885627
-0.004399 -0.243458 -31.950342
0.85915 -10.000384 -52.377962 -0.885627
-0.004399 -0.162778 -43.174463
1.00000 -10.000384 -52.377962 -0.885627
-0.004399 -0.592432 -55.802695
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3183

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 8.876106 83.718738 1.268244
0.003042 1.405185 165.705541
0.57746 8.876106 83.718738 1.268244
0.003042 0.874817 142.146531
0.71831 8.876106 83.718738 1.268244
0.003042 0.353252 125.970345
0.85915 8.876106 83.718738 1.268244
0.003042 0.169733 119.180768
1.00000 8.876106 83.718738 1.268244
0.003042 0.645215 131.898790

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -8.568418 -95.760741 -1.136966
-0.003036 -1.267681 -100.327147
0.57746 -8.568418 -95.760741 -1.136966
-0.003036 -0.790413 -72.046853
0.71831 -8.568418 -95.760741 -1.136966
-0.003036 -0.312929 -55.765763
0.85915 -8.568418 -95.760741 -1.136966
-0.003036 -0.191823 -42.547527
1.00000 -8.568418 -95.760741 -1.136966
-0.003036 -0.722688 -51.729873

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 9.238415 7.982767 0.724692
0.000632 0.806293 6.983221
0.57746 9.238415 7.982767 0.724692
0.000632 0.502606 5.372371
0.71831 9.238415 7.982767 0.724692
0.000632 0.199190 4.744338
0.85915 9.238415 7.982767 0.724692
0.000632 0.098528 4.220017
1.00000 9.238415 7.982767 0.724692
0.000632 0.387832 3.677831

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -0.292205 -77.543133 -0.689441

```
-0.000275   -0.768572 -142.734957
0.57746   -0.292205   -77.543133   -0.689441
-0.000275   -0.479383 -111.838359
0.71831   -0.292205   -77.543133   -0.689441
-0.000275   -0.190125   -81.457414
0.85915   -0.292205   -77.543133   -0.689441
-0.000275   -0.105787   -51.111903
1.00000   -0.292205   -77.543133   -0.689441
-0.000275   -0.409480   -20.785706

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43661   15.287762   30.734854    1.025130
0.006658    1.116882    91.377980
0.57746   15.287762   30.734854    1.025130
0.006658    0.687667    83.876798
0.71831   15.287762   30.734854    1.025130
0.006658    0.280712    90.666842
0.85915   15.287762   30.734854    1.025130
0.006658    0.156257   113.493587
1.00000   15.287762   30.734854    1.025130
0.006658    0.529303   136.668580

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43661   -1.367241 -162.880335   -0.901963
-0.006171   -1.003443 -181.702824
0.57746   -1.367241 -162.880335   -0.901963
-0.006171   -0.625801 -118.509939
0.71831   -1.367241 -162.880335   -0.901963
-0.006171   -0.248218   -81.645197
0.85915   -1.367241 -162.880335   -0.901963
-0.006171   -0.177767   -46.685133
1.00000   -1.367241 -162.880335   -0.901963
-0.006171   -0.607034   -13.720566
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3184

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43661   13.471698   69.645235    1.178159
0.005082    1.294509   185.481334
0.57746   13.471698   69.645235    1.178159
0.005082    0.801270   160.551445
0.71831   13.471698   69.645235    1.178159
0.005082    0.324966   146.088794
0.85915   13.471698   69.645235    1.178159
0.005082    0.169063   143.262818
1.00000   13.471698   69.645235    1.178159
0.005082    0.607126   140.818437

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43661   -4.936018 -135.177879   -1.053520
-0.004673   -1.172837 -160.785959
0.57746   -4.936018 -135.177879   -1.053520
-0.004673   -0.730611 -108.196874
0.71831   -4.936018 -135.177879   -1.053520
-0.004673   -0.289318   -74.730961
0.85915   -4.936018 -135.177879   -1.053520
-0.004673   -0.191218   -42.646674
1.00000   -4.936018 -135.177879   -1.053520
-0.004673   -0.684126   -12.814689

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43661   11.588452   78.660531    1.340343
0.004378    1.479836   163.570958
0.57746   11.588452   78.660531    1.340343
0.004378    0.918668   138.931287
0.71831   11.588452   78.660531    1.340343
0.004378    0.370830   125.430588
0.85915   11.588452   78.660531    1.340343
0.004378    0.185542   122.246449
1.00000   11.588452   78.660531    1.340343
0.004378    0.685685   121.527694

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43661   -7.318203 -115.746239   -1.199759
-0.004218   -1.339601   -149.499663
0.57746   -7.318203 -115.746239   -1.199759
-0.004218   -0.833219   -99.244847
0.71831   -7.318203 -115.746239   -1.199759
-0.004218   -0.330059   -77.772173
0.85915   -7.318203 -115.746239   -1.199759
-0.004218   -0.209147   -57.912301
1.00000   -7.318203 -115.746239   -1.199759
-0.004218   -0.770280   -41.126736

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43661   16.217873   97.707935    0.960486
0.006753    1.052936   215.123217
0.57746   16.217873   97.707935    0.960486
0.006753    0.650913   181.169840
0.71831   16.217873   97.707935    0.960486
0.006753    0.263625   157.088317
0.85915   16.217873   97.707935    0.960486
0.006753    0.141520   147.385085
1.00000   16.217873   97.707935    0.960486
0.006753    0.512498   142.079382

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43661  -12.290353 -167.996984   -0.908212
-0.006224   -1.012134 -182.803125
0.57746  -12.290353 -167.996984   -0.908212
-0.006224   -0.631259 -121.049361
0.71831  -12.290353 -167.996984   -0.908212
-0.006224   -0.250357   -79.787585
0.85915  -12.290353 -167.996984   -0.908212
-0.006224   -0.156025   -60.805362
1.00000  -12.290353 -167.996984   -0.908212
-0.006224   -0.558936   -75.192144
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3185

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43661   15.287762   98.865647    1.340343
0.006658    1.479836   220.929499
0.57746   15.287762   98.865647    1.340343
0.006658    0.918668   189.204495
0.71831   15.287762   98.865647    1.340343
0.006658    0.370830   167.360907
0.85915   15.287762   98.865647    1.340343
0.006658    0.185542   157.222530
1.00000   15.287762   98.865647    1.340343
0.006658    0.685685   150.797500

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43661  -11.779937 -162.880335   -1.199759
-0.006171   -1.336901 -181.702824
0.57746  -11.779937 -162.880335   -1.199759
-0.006171   -0.833219 -118.509939
0.71831  -11.779937 -162.880335   -1.199759
-0.006171   -0.330059   -81.645197
0.85915  -11.779937 -162.880335   -1.199759
-0.006171   -0.209147   -69.563088
1.00000  -11.779937 -162.880335   -1.199759
-0.006171   -0.770280   -87.747611

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43661   16.217873   98.865647    1.340343
0.006753    1.479836   220.929499
0.57746   16.217873   98.865647    1.340343
0.006753    0.918668   189.204495
0.71831   16.217873   98.865647    1.340343
0.006753    0.370830   167.360907
0.85915   16.217873   98.865647    1.340343
0.006753    0.185542   157.222530
1.00000   16.217873   98.865647    1.340343
0.006753    0.685685   150.797500

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43661  -12.290353 -167.996984   -1.199759
-0.006224   -1.336901 -182.803125
0.57746  -12.290353 -167.996984   -1.199759
-0.006224   -0.633219 -121.049361
0.71831  -12.290353 -167.996984   -1.199759
-0.006224   -0.330059   -81.645197
0.85915  -12.290353 -167.996984   -1.199759
-0.006224   -0.209147   -69.563088
1.00000  -12.290353 -167.996984   -1.199759
-0.006224   -0.770280   -87.747611

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43661   16.217873   98.865647    1.340343
0.006753    1.479836   220.929499
0.57746   16.217873   98.865647    1.340343
0.006753    0.918668   189.204495
0.71831   16.217873   98.865647    1.340343
0.006753    0.370830   167.360907
0.85915   16.217873   98.865647    1.340343
0.006753    0.185542   157.222530
1.00000   16.217873   98.865647    1.340343
0.006753    0.685685   150.797500

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43661  -12.290353 -167.996984   -1.199759
-0.006224   -1.336901 -182.803125
0.57746  -12.290353 -167.996984   -1.199759
-0.006224   -0.633219 -121.049361
0.71831  -12.290353 -167.996984   -1.199759
-0.006224   -0.330059   -81.645197
0.85915  -12.290353 -167.996984   -1.199759
-0.006224   -0.209147   -69.563088
1.00000  -12.290353 -167.996984   -1.199759
-0.006224   -0.770280   -87.747611
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3186

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      299 ================== LENGTH
=    2.977528

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    0.048974   18.587648    0.472207
1.09E-05    0.266311    6.030689
0.14085    0.048974   18.587648    0.472207
1.09E-05    0.068232    7.753958
0.28170    0.048974   18.587648    0.472207
1.09E-05    0.113025    9.556083
0.42255    0.048974   18.587648    0.472207
1.09E-05    0.283488   11.376621
0.56340    0.048974   18.587648    0.472207
1.09E-05    0.453950   13.215158

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -5.009376   -4.395105   -0.406462
-0.000215   -0.227908   -53.859473
0.14085   -5.009376   -4.395105   -0.406462
-0.000215   -0.057389   -61.534275
0.28170   -5.009376   -4.395105   -0.406462
-0.000215   -0.112975   -69.232151
0.42255   -5.009376   -4.395105   -0.406462
-0.000215   -0.327794   -76.948540
0.56340   -5.009376   -4.395105   -0.406462
-0.000215   -0.525829   -84.694935

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    0.515711   46.110551    0.780061
0.000287    0.440760   12.219907
0.14085    0.515711   46.110551    0.780061
0.000287    0.113543   12.886432
0.28170    0.515711   46.110551    0.780061
0.000287    0.192494   14.146515
0.42255    0.515711   46.110551    0.780061
0.000287    0.481031   16.257357
0.56340    0.515711   46.110551    0.780061
0.000287    0.769580   18.717406

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -9.158950   -6.253924   -0.688041
-0.000664   -0.384668   -75.224550
0.14085   -9.158950   -6.253924   -0.688041
-0.000664   -0.096728   -91.734064
0.28170   -9.158950   -6.253924   -0.688041
-0.000664   -0.214277  -108.899502
0.42255   -9.158950   -6.253924   -0.688041
-0.000664   -0.540710  -126.217513
0.56340   -9.158950   -6.253924   -0.688041
-0.000664   -0.867840  -144.558102

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    0.757630   96.679187    0.826513
0.000432    0.465567   61.677319
0.14085    0.757630   96.679187    0.826513
0.000432    0.118708   40.666925
0.28170    0.757630   96.679187    0.826513
0.000432    0.214115   35.655396
0.42255    0.757630   96.679187    0.826513
0.000432    0.534558   34.808621
0.56340    0.757630   96.679187    0.826513
0.000432    0.854984   35.291640

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -12.132917   -5.827067   -0.764043
-0.000822   -0.426817  -66.528774
0.14085  -12.132917   -5.827067   -0.764043
-0.000822   -0.106428  -78.463760
0.28170  -12.132917   -5.827067   -0.764043
-0.000822   -0.227671  -91.991245
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3187

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.42255  -12.132917   -5.827067   -0.764043
-0.000822   -0.574303 -129.256766
0.56340  -12.132917   -5.827067   -0.764043
-0.000822   -0.920925 -169.507755

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    5.203703   119.124622    0.959485
0.004037    0.556775   134.595852
0.14085    5.203703   119.124622    0.959485
0.004037    0.154157   119.902231
0.28170    5.203703   119.124622    0.959485
0.004037    0.229519   118.361897
0.42255    5.203703   119.124622    0.959485
0.004037    0.575269   128.982633
0.56340    5.203703   119.124622    0.959485
0.004037    0.920994   147.216555

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -12.158032   -53.695318   -0.824367
-0.004187   -0.462445   -57.475016
0.14085  -12.158032   -53.695318   -0.824367
-0.004187   -0.127694   -68.215748
0.28170  -12.158032   -53.695318   -0.824367
-0.004187   -0.262562   -80.440694
0.42255  -12.158032   -53.695318   -0.824367
-0.004187   -0.651419  -112.209861
0.56340  -12.158032   -53.695318   -0.824367
-0.004187   -1.053412  -153.951686

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    0.661720   40.200003    0.295142
0.000215    0.166376   14.057296
0.14085    0.661720   40.200003    0.295142
0.000215    0.042549    8.894822
0.28170    0.661720   40.200003    0.295142
0.000215    0.080485    7.381166
0.42255    0.661720   40.200003    0.295142
0.000215    0.199913    6.838517
0.56340    0.661720   40.200003    0.295142
0.000215    0.319339    6.716099

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -4.908555   -1.387305   -0.284766
-0.000375   -0.158440   -11.447475
0.14085   -4.908555   -1.387305   -0.284766
-0.000375   -0.039104   -15.363113
0.28170   -4.908555   -1.387305   -0.284766
-0.000375   -0.081134   -30.372339
0.42255   -4.908555   -1.387305   -0.284766
-0.000375   -0.204529   -46.395932
0.56340   -4.908555   -1.387305   -0.284766
-0.000375   -0.328722   -62.921596

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    1.484675   135.250041    0.481100
0.005291    0.291574   142.337332
0.14085    1.484675   135.250041    0.481100
0.005291    0.089564   96.390131
0.28170    1.484675   135.250041    0.481100
0.005291    0.114876   67.676476
0.42255    1.484675   135.250041    0.481100
0.005291    0.286346   55.308999
0.56340    1.484675   135.250041    0.481100
0.005291    0.457784   53.317089

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -10.108900   -9.066734   -0.408786
-0.005454   -0.228693   -11.386313
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3188

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.14085  -10.108900   -9.066734   -0.408786
-0.005454   -0.072364   -15.506216
0.28170  -10.108900   -9.066734   -0.408786
-0.005454   -0.131881   -21.635138
0.42255  -10.108900   -9.066734   -0.408786
-0.005454   -0.315116   -53.712728
0.56340  -10.108900   -9.066734   -0.408786
-0.005454   -0.516336   -99.238498

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    1.546034   138.091881    0.795553
0.004773    0.466977   131.974455
0.14085    1.546034   138.091881    0.795553
0.004773    0.133066   91.823455
0.28170    1.546034   138.091881    0.795553
0.004773    0.191324   67.182983
0.42255    1.546034   138.091881    0.795553
0.004773    0.477627   57.270684
0.56340    1.546034   138.091881    0.795553
0.004773    0.763899   56.732444

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -12.946737   -11.182793   -0.682606
-0.005116   -0.381817   -48.995733
0.14085  -12.946737   -11.182793   -0.682606
-0.005116   -0.109202   -59.294515
0.28170  -12.946737   -11.182793   -0.682606
-0.005116   -0.218291   -71.572710
0.42255  -12.946737   -11.182793   -0.682606
-0.005116   -0.535193  -107.450021
0.56340  -12.946737   -11.182793   -0.682606
-0.005116   -0.868348  -155.133209

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    7.935264   110.100156    0.960281
0.003580    0.550001   119.639097
0.14085    7.935264   110.100156    0.960281
0.003580    0.152057   116.078457
0.28170    7.935264   110.100156    0.960281
0.003580    0.236267   126.075326
0.42255    7.935264   110.100156    0.960281
0.003580    0.592740   146.526796
0.56340    7.935264   110.100156    0.960281
0.003580    0.949182   173.377205

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -10.643257   -73.083925   -0.849912
-0.003721   -0.477026   -43.964846
0.14085  -10.643257   -73.083925   -0.849912
-0.003721   -0.129536   -53.524156
0.28170  -10.643257   -73.083925   -0.849912
-0.003721   -0.262251   -64.678041
0.42255  -10.643257   -73.083925   -0.849912
-0.003721   -0.653999   -95.609470
0.56340  -10.643257   -73.083925   -0.849912
-0.003721   -1.056401  -134.981954

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    9.892542    5.778212    0.510059
0.000758    0.289854    3.067255
0.14085    9.892542    5.778212    0.510059
0.000758    0.075967   23.999334
0.28170    9.892542    5.778212    0.510059
0.000758    0.134444   56.888145
0.42255    9.892542    5.778212    0.510059
0.000758    0.340690   90.043667
0.56340    9.892542    5.778212    0.510059
0.000758    0.546916  123.300113
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3189

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.319480   -79.480929   -0.491740
-0.000489   -0.277992   -11.078404
0.14085   -0.319480   -79.480929   -0.491740
-0.000489   -0.071744    -7.452964
0.28170   -0.319480   -79.480929   -0.491740
-0.000489   -0.138136    -9.051579
0.42255   -0.319480   -79.480929   -0.491740
-0.000489   -0.351944   -10.850403
0.56340   -0.319480   -79.480929   -0.491740
-0.000489   -0.565795   -13.048934

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   12.283289   87.899834    0.769138
0.006781    0.460897   125.179488
0.14085   12.283289   87.899834    0.769138
0.006781    0.138488   131.158042
0.28170   12.283289   87.899834    0.769138
0.006781    0.172740   141.715823
0.42255   12.283289   87.899834    0.769138
0.006781    0.437851   169.308159
0.56340   12.283289   87.899834    0.769138
0.006781    0.702937   208.624100

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -4.608052 -106.140594   -0.632087
-0.006469   -0.358223    -7.489151
0.14085   -4.608052 -106.140594   -0.632087
-0.006469   -0.111339    -9.931568
0.28170   -4.608052 -106.140594   -0.632087
-0.006469   -0.208620   -12.426882
0.42255   -4.608052 -106.140594   -0.632087
-0.006469   -0.508515   -17.243201
0.56340   -4.608052 -106.140594   -0.632087
-0.006469   -0.830385   -39.222648

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   11.486401   114.464425    0.847120
0.005121    0.496888   124.077426
0.14085   11.486401   114.464425    0.847120
0.005121    0.141501   120.601316
0.28170   11.486401   114.464425    0.847120
0.005121    0.212169   132.932410
0.42255   11.486401   114.464425    0.847120
0.005121    0.534689   159.189569
0.56340   11.486401   114.464425    0.847120
0.005121    0.857165   194.220271

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -7.942575   -95.409778   -0.768932
-0.004936   -0.433300    -8.718178
0.14085   -7.942575   -95.409778   -0.768932
-0.004936   -0.123388   -10.718264
0.28170   -7.942575   -95.409778   -0.768932
-0.004936   -0.230282   -15.106551
0.42255   -7.942575   -95.409778   -0.768932
-0.004936   -0.570101   -43.365931
0.56340   -7.942575   -95.409778   -0.768932
-0.004936   -0.924891   -82.231008

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    9.947345   112.223845    0.990529
0.004269    0.574533   105.482046
0.14085    9.947345   112.223845    0.990529
0.004269    0.159012   103.509832
0.28170    9.947345   112.223845    0.990529
0.004269    0.248127   114.725579
0.42255    9.947345   112.223845    0.990529
0.004269    0.623326   137.510098
0.56340    9.947345   112.223845    0.990529
0.004269    0.998488   167.566633
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3190

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -9.870822   -81.528339   -0.894561
-0.004280   -0.502663   -34.186569
0.14085   -9.870822   -81.528339   -0.894561
-0.004280   -0.137899   -42.736373
0.28170   -9.870822   -81.528339   -0.894561
-0.004280   -0.270031   -52.835977
0.42255   -9.870822   -81.528339   -0.894561
-0.004280   -0.672655   -82.564307
0.56340   -9.870822   -81.528339   -0.894561
-0.004280   -1.087685  -121.711400

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    0.057766   23.955882    0.608311
8.04E-06    0.342625   11.057396
0.14085    0.057766   23.955882    0.608311
8.04E-06    0.088005   13.957550
0.28170    0.057766   23.955882    0.608311
8.04E-06    0.150796   16.924640
0.42255    0.057766   23.955882    0.608311
8.04E-06    0.384187   19.911757
0.56340    0.057766   23.955882    0.608311
8.04E-06    0.617018   22.911171

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -5.665718   -7.160275   -0.554605
```

```
-0.000186   -0.313209   -64.796282
 0.14085    -5.665718    -7.160275    -0.554605
-0.000186   -0.079885   -74.701287
 0.28170    -5.665718    -7.160275    -0.554605
-0.000186   -0.166220   -84.666209
 0.42255    -5.665718    -7.160275    -0.554605
-0.000186   -0.420877   -94.662780
 0.56340    -5.665718    -7.160275    -0.554605
-0.000186   -0.675631  -104.679325

COMB DL-G1-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.616344   53.315879    1.003267
 0.000215   0.564799   17.834615
 0.14085    0.616344   53.315879    1.003267
 0.000215   0.145231   20.193924
 0.28170    0.616344   53.315879    1.003267
 0.000215   0.245039   23.399419
 0.42255    0.616344   53.315879    1.003267
 0.000215   0.622415   27.042999
 0.56340    0.616344   53.315879    1.003267
 0.000215   0.998501   31.019555

COMB DL-G1-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -9.326967   -9.856220   -0.896638
-0.000520  -0.505496   -87.791325
 0.14085   -9.326967   -9.856220   -0.896638
-0.000520  -0.128313  -107.317628
 0.28170   -9.326967   -9.856220   -0.896638
-0.000520  -0.274797  -127.596764
 0.42255   -9.326967   -9.856220   -0.896638
-0.000520  -0.694458  -148.736500
 0.56340   -9.326967   -9.856220   -0.896638
-0.000520  -1.114543  -170.552736

COMB DL-G1-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.906039   97.937028    1.107610
 0.000370   0.620469   80.619412
 0.14085    0.906039   97.937028    1.107610
 0.000370   0.157762   62.628898
 0.28170    0.906039   97.937028    1.107610
 0.000370   0.270798   51.589439
 0.42255    0.906039   97.937028    1.107610
 0.000370   0.684759   48.918547
 0.56340    0.906039   97.937028    1.107610
 0.000370   1.098464   49.547305
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    3191

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -11.663150   -9.783803   -0.984461
-0.000683   -0.551080   -77.779532
 0.14085   -11.663150   -9.783803   -0.984461
-0.000683   -0.137597   -93.161640
 0.28170   -11.663150   -9.783803   -0.984461
-0.000683   -0.306304  -110.572757
 0.42255   -11.663150   -9.783803   -0.984461
-0.000683   -0.769954  -145.741370
 0.56340   -11.663150   -9.783803   -0.984461
-0.000683   -1.233540  -183.875670

COMB DL-G1-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    5.016334  112.985060    1.262022
 0.003137   0.721860  147.473082
 0.14085    5.016334  112.985060    1.262022
 0.003137   0.194177  138.955401
 0.28170    5.016334  112.985060    1.262022
 0.003137   0.302045  136.158987
 0.42255    5.016334  112.985060    1.262022
 0.003137   0.764073  146.380592
 0.56340    5.016334  112.985060    1.262022
 0.003137   1.225897  164.620013

COMB DL-G1-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000  -11.433467  -55.459690   -1.100231
-0.003279   -0.162121   -67.932502
 0.14085  -11.433467  -55.459690   -1.100231
-0.003279   -0.167787   -81.981378
 0.28170  -11.433467  -55.459690   -1.100231
-0.003279   -0.347340   -97.889060
 0.42255  -11.433467  -55.459690   -1.100231
-0.003279   -0.865773  -128.259723
 0.56340  -11.433467  -55.459690   -1.100231
-0.003279   -1.393833  -168.829348

COMB DL-G2-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.736933   38.326905    0.389955
 0.000191   0.218255   16.886821
 0.14085    0.736933   38.326905    0.389955
 0.000191   0.055679    9.603382
 0.28170    0.736933   38.326905    0.389955
 0.000191   0.093735    7.489174
 0.42255    0.736933   38.326905    0.389955
 0.000191   0.237549    6.943747
 0.56340    0.736933   38.326905    0.389955
 0.000191   0.377132    6.956540

COMB DL-G2-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -4.166004   -1.639983   -0.337461
-0.000304   -0.187994   -11.315207
 0.14085   -4.166004   -1.639983   -0.337461
-0.000304   -0.046324   -17.113978
 0.28170   -4.166004   -1.639983   -0.337461
-0.000304   -0.093320   -29.956935
 0.42255   -4.166004   -1.639983   -0.337461
-0.000304   -0.271264   -44.846876
 0.56340   -4.166004   -1.639983   -0.337461
-0.000304   -0.434710   -60.326176

COMB DL-G2-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    1.627534  121.911101    0.632896
 0.004538   0.372813  150.803991
 0.14085    1.627534  121.911101    0.632896
 0.004538   0.109349  110.574658
 0.28170    1.627534  121.911101    0.632896
 0.004538   0.142256   77.859563
 0.42255    1.627534  121.911101    0.632896
 0.004538   0.357085   63.707703
 0.56340    1.627534  121.911101    0.632896
 0.004538   0.572451   60.968349
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    3192

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -8.730669   -9.969710   -0.512593
-0.004654   -0.299436   -11.509958
 0.14085   -8.730669   -9.969710   -0.512593
-0.004654   -0.088537   -16.296985
 0.28170   -8.730669   -9.969710   -0.512593
-0.004654   -0.175874   -24.515516
 0.42255   -8.730669   -9.969710   -0.512593
-0.004654   -0.425540   -51.193904
 0.56340   -8.730669   -9.969710   -0.512593
-0.004654   -0.690030   -92.688006

COMB DL-G2-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    1.645061  130.797642    1.033985
 0.004097   0.596926  143.185013
 0.14085    1.645061  130.797642    1.033985
 0.004097   0.165592  108.840927
 0.28170    1.645061  130.797642    1.033985
 0.004097   0.241121   81.320563
 0.42255    1.645061  130.797642    1.033985
 0.004097   0.609117   70.644712
 0.56340    1.645061  130.797642    1.033985
 0.004097   0.976632   70.217171

COMB DL-G2-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000  -11.918142  -13.877352   -0.875753
-0.004367   -0.503246   -55.822464
 0.14085  -11.918142  -13.877352   -0.875753
-0.004367   -0.139850   -68.592269
 0.28170  -11.918142  -13.877352   -0.875753
-0.004367   -0.285334   -84.758478
 0.42255  -11.918142  -13.877352   -0.875753
-0.004367   -0.704329  -117.413347
 0.56340  -11.918142  -13.877352   -0.875753
-0.004367   -1.137009  -163.403786

COMB DL-G2-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    7.489233  104.742624    1.291455
 0.002853   0.736566  131.871310
 0.14085    7.489233  104.742624    1.291455
 0.002853   0.196270  132.886199
 0.28170    7.489233  104.742624    1.291455
 0.002853   0.311298  139.731859
 0.42255    7.489233  104.742624    1.291455
 0.002853   0.786769  158.811803
 0.56340    7.489233  104.742624    1.291455
 0.002853   1.261805  184.872501

COMB DL-G2-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -9.692156  -73.174687   -1.131887
-0.002950   -0.642918   -51.735181
 0.14085   -9.692156  -73.174687   -1.131887
-0.002950   -0.169894   -63.939115
 0.28170   -9.692156  -73.174687   -1.131887
-0.002950   -0.355730   -78.815807
 0.42255   -9.692156  -73.174687   -1.131887
-0.002950   -0.888429  -107.896412
 0.56340   -9.692156  -73.174687   -1.131887
-0.002950   -1.429254  -145.723490

COMB DL-G3-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    9.299292    7.971391    0.742190
 0.000654   0.419719    3.673405
 0.14085    9.299292    7.971391    0.742190
 0.000654   0.108066   23.546304
 0.28170    9.299292    7.971391    0.742190
 0.000654   0.190524   55.444093
 0.42255    9.299292    7.971391    0.742190
 0.000654   0.481831   87.786284
 0.56340    9.299292    7.971391    0.742190
 0.000654   0.773054  120.359031
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    3193

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.282504   -78.016849   -0.694344
-0.000395   -0.091567   -20.816039
 0.14085   -0.282504   -78.016849   -0.694344
-0.000395   -0.100150   -13.515216
 0.28170   -0.282504   -78.016849   -0.694344
-0.000395   -0.203057   -15.899255
 0.42255   -0.282504   -78.016849   -0.694344
-0.000395   -0.514319   -18.696918
 0.56340   -0.282504   -78.016849   -0.694344
-0.000395   -0.825852   -21.888917

COMB DL-G3-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   11.570699   87.092026    1.048326
 0.006645   0.619956  136.701662
 0.14085   11.570699   87.092026    1.048326
 0.006645   0.180844  142.170854
 0.28170   11.570699   87.092026    1.048326
 0.006645   0.248859  152.046878
 0.42255   11.570699   87.092026    1.048326
 0.006645   0.629340  176.455033
 0.56340   11.570699   87.092026    1.048326
 0.006645   1.009752  213.721548

COMB DL-G3-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -4.509058  -103.178872   -0.908776
-0.006348   -0.533845   -13.723356
 0.14085   -4.509058  -103.178872   -0.908776
-0.006348   -0.158178   -16.489383
 0.28170   -4.509058  -103.178872   -0.908776
-0.006348   -0.282832   -20.426514
 0.42255   -4.509058  -103.178872   -0.908776
-0.006348   -0.703871   -26.806074
 0.56340   -4.509058  -103.178872   -0.908776
-0.006348   -1.142589   -52.763723

COMB DL-G3-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   10.815908  109.892299    1.192761
 0.005152   0.690997  140.812452
 0.14085   10.815908  109.892299    1.192761
 0.005152   0.191767  137.360060
 0.28170   10.815908  109.892299    1.192761
 0.005152   0.288133  141.117226
 0.42255   10.815908  109.892299    1.192761
 0.005152   0.726001  162.601709
 0.56340   10.815908  109.892299    1.192761
 0.005152   1.164770  194.972005

COMB DL-G3-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -7.146808  -92.290888   -1.045230
-0.004954   -0.600960   -12.807144
 0.14085   -7.146808  -92.290888   -1.045230
-0.004954   -0.166772   -15.913870
 0.28170   -7.146808  -92.290888   -1.045230
-0.004954   -0.327960   -23.611638
 0.42255   -7.146808  -92.290888   -1.045230
-0.004954   -0.812866   -46.213774
 0.56340   -7.146808  -92.290888   -1.045230
-0.004954   -1.312154   -83.140442

COMB DL-G3-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    9.387319  111.880250    1.360503
 0.004303   0.781910  121.530603
 0.14085    9.387319  111.880250    1.360503
 0.004303   0.212516  120.174038
 0.28170    9.387319  111.880250    1.360503
 0.004303   0.328288  124.730879
 0.42255    9.387319  111.880250    1.360503
 0.004303   0.828760  143.986469
 0.56340    9.387319  111.880250    1.360503
 0.004303   1.329307  172.292471
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    3194

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -9.131019   -80.144989   -1.192911
-0.004271   -0.681867   -41.136874
 0.14085   -9.131019   -80.144989   -1.192911
-0.004271   -0.184602   -51.842235
 0.28170   -9.131019   -80.144989   -1.192911
-0.004271   -0.374012   -66.114197
 0.42255   -9.131019   -80.144989   -1.192911
-0.004271   -0.931399   -93.135058
 0.56340   -9.131019   -80.144989   -1.192911
-0.004271   -1.501094  -132.194312

COMB    DB ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   12.283289  138.091881    0.990529
 0.006781   0.574533  142.337332
 0.14085   12.283289  138.091881    0.990529
 0.006781   0.159012  131.158042
 0.28170   12.283289  138.091881    0.990529
 0.006781   0.248127  141.715823
 0.42255   12.283289  138.091881    0.990529
 0.006781   0.623326  169.308159
 0.56340   12.283289  138.091881    0.990529
 0.006781   0.998488  208.624100

COMB    DB ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000  -12.946737  -106.140594   -0.894561
-0.006469   -0.502663   -75.224550
 0.14085  -12.946737  -106.140594   -0.894561
-0.006469   -0.137899   -91.794064
 0.28170  -12.946737  -106.140594   -0.894561
-0.006469   -0.270031  -108.899502
 0.42255  -12.946737  -106.140594   -0.894561
-0.006469   -0.672655  -129.256766
 0.56340  -12.946737  -106.140594   -0.894561
-0.006469   -1.087685  -169.507755

COMB    DL ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   11.570699  130.797642    1.360503
 0.006645   0.781910  150.803991
 0.14085   11.570699  130.797642    1.360503
 0.006645   0.212516  142.170854
 0.28170   11.570699  130.797642    1.360503
 0.006645   0.328288  152.046878
 0.42255   11.570699  130.797642    1.360503
 0.006645   0.828760  176.455033
 0.56340   11.570699  130.797642    1.360503
 0.006645   1.329307  213.721548

COMB    DL ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000  -11.918142  -103.178872   -1.192911
-0.006348   -0.681867   -87.791325
 0.14085  -11.918142  -103.178872   -1.192911
-0.006348   -0.184602  -107.317628
 0.28170  -11.918142  -103.178872   -1.192911
-0.006348   -0.374012  -127.596764
 0.42255  -11.918142  -103.178872   -1.192911
-0.006348   -0.931399  -148.736500
 0.56340  -11.918142  -103.178872   -1.192911
-0.006348   -1.501094  -183.875670

COMB    CAR ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   12.283289  138.091881    1.360503
 0.006781   0.781910  150.803991
 0.14085   12.283289  138.091881    1.360503
 0.006781   0.212516  142.170854
 0.28170   12.283289  138.091881    1.360503
 0.006781   0.328288  152.046878
 0.42255   12.283289  138.091881    1.360503
 0.006781   0.828760  176.455033
 0.56340   12.283289  138.091881    1.360503
 0.006781   1.329307  213.721548
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    3195

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB    CAR ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000  -12.946737  -106.140594   -1.192911
-0.006469   -0.681867   -87.791325
 0.14085  -12.946737  -106.140594   -1.192911
-0.006469   -0.184602  -107.317628
 0.28170  -12.946737  -106.140594   -1.192911
-0.006469   -0.374012  -127.596764
 0.42255  -12.946737  -106.140594   -1.192911
-0.006469   -0.931399  -148.736500
 0.56340  -12.946737  -106.140594   -1.192911
-0.006469   -1.501094  -183.875670

COMB  DESIGN ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   12.283289  138.091881    1.360503
 0.006781   0.781910  150.803991
 0.14085   12.283289  138.091881    1.360503
 0.006781   0.212516  142.170854
 0.28170   12.283289  138.091881    1.360503
 0.006781   0.328288  152.046878
 0.42255   12.283289  138.091881    1.360503
 0.006781   0.828760  176.455033
 0.56340   12.283289  138.091881    1.360503
 0.006781   1.329307  213.721548

COMB  DESIGN ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000  -12.946737  -106.140594   -1.192911
-0.006469   -0.681867   -87.791325
 0.14085  -12.946737  -106.140594   -1.192911
-0.006469   -0.184602  -107.317628
 0.28170  -12.946737  -106.140594   -1.192911
-0.006469   -0.374012  -127.596764
 0.42255  -12.946737  -106.140594   -1.192911
-0.006469   -0.931399  -148.736500
 0.56340  -12.946737  -106.140594   -1.192911
-0.006469   -1.501094  -183.875670

 ELEM      300 ================== LENGTH
=    2.976770

COMB DB-G1-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43672    0.541021   16.257657    0.396436
 1.25E-05   0.443591    2.424787
 0.57754    0.541021   16.257657    0.396436
 1.25E-05   0.277408    1.356378
 0.71836    0.541021   16.257657    0.396436
 1.25E-05   0.111241    2.820122
 0.85918    0.541021   16.257657    0.396436
 1.25E-05   0.038407    5.377082
 1.00000    0.541021   16.257657    0.396436
 1.25E-05   0.154820    8.387883

COMB DB-G1-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43672   -4.278980   -7.931139   -0.277729
-0.000876   -0.310867   -23.650754
 0.57754   -4.278980   -7.931139   -0.277729
-0.000876   -0.194445   -29.844058
 0.71836   -4.278980   -7.931139   -0.277729
-0.000876   -0.078023   -36.086860
 0.85918   -4.278980   -7.931139   -0.277729
-0.000876   -0.054927   -42.366538
 1.00000   -4.278980   -7.931139   -0.277729
-0.000876   -0.221143   -48.753906

COMB DB-G1-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43672    0.972150   41.138497    0.655535
 0.000306   0.732843   29.871356
 0.57754    0.972150   41.138497    0.655535
 0.000306   0.458053   21.872263
 0.71836    0.972150   41.138497    0.655535
 0.000306   0.183900   14.956377
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    3196

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.85918    0.972150   41.138497    0.655535
 0.000306   0.071507   11.995545
 1.00000    0.972150   41.138497    0.655535
 0.000306   0.279359   15.167341

COMB DB-G1-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43672   -8.510841  -13.613722   -0.496846
-0.001713   -0.553739   -30.002038
 0.57754   -8.510841  -13.613722   -0.496846
-0.001713   -0.345466   -36.566782
 0.71836   -8.510841  -13.613722   -0.496846
-0.001713   -0.137194   -45.688050
 0.85918   -8.510841  -13.613722   -0.496846
-0.001713   -0.091466   -57.393092
 1.00000   -8.510841  -13.613722   -0.496846
-0.001713   -0.366402   -69.806260

COMB DB-G1-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43672    1.028141   94.360822    0.783165
 5.31E-05   0.875744  174.382880
 0.57754    1.028141   94.360822    0.783165
 5.31E-05   0.547447  143.140357
 0.71836    1.028141   94.360822    0.783165
 5.31E-05   0.219186  112.406205
 0.85918    1.028141   94.360822    0.783165
 5.31E-05   0.081008   84.687595
 1.00000    1.028141   94.360822    0.783165
 5.31E-05   0.313966   60.791923

COMB DB-G1-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43672  -11.844913  -10.662713   -0.555893
-0.001343   -0.618204   -27.817335
 0.57754  -11.844913  -10.662713   -0.555893
-0.001343   -0.385179   -34.424698
 0.71836  -11.844913  -10.662713   -0.555893
-0.001343   -0.152154   -42.357135
 0.85918  -11.844913  -10.662713   -0.555893
-0.001343   -0.109181   -51.999982
 1.00000  -11.844913  -10.662713   -0.555893
-0.001343   -0.437503   -62.035448

COMB DB-G1-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43672    7.673805   84.148755    1.004913
 0.004064   1.112554  162.659300
 0.57754    7.673805   84.148755    1.004913
 0.004064   0.691415  136.734309
 0.71836    7.673805   84.148755    1.004913
 0.004064   0.283045  120.084657
 0.85918    7.673805   84.148755    1.004913
 0.004064   0.107694  118.167789
 1.00000    7.673805   84.148755    1.004913
 0.004064   0.388370  131.042882

COMB DB-G1-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43672  -10.184350  -93.103815   -0.688963
-0.004638   -0.766948   -84.880386
 0.57754  -10.184350  -93.103815   -0.688963
-0.004638   -0.478143   -59.773208
 0.71836  -10.184350  -93.103815   -0.688963
-0.004638   -0.189330   -47.864770
 0.85918  -10.184350  -93.103815   -0.688963
-0.004638   -0.154910   -44.781357
 1.00000  -10.184350  -93.103815   -0.688963
-0.004638   -0.574395   -54.501678

COMB DB-G2-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43672    0.546554   39.497824    0.247467
 0.000172   0.276598   69.344043
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD                >
                                    3197

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.57754    0.546554   39.497824    0.247467
 0.000172   0.172861   53.368801
 0.71836    0.546554   39.497824    0.247467
 0.000172   0.069142   37.786167
 0.85918    0.546554   39.497824    0.247467
 0.000172   0.034826   22.883727
 1.00000    0.546554   39.497824    0.247467
 0.000172   0.130651   13.837665

COMB DB-G2-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43672   -5.214661   -3.122762   -0.228717
```

```
-0.000624   -0.252859   -6.687957
0.57754     -5.214661   -3.122762     -0.228717
-0.000624   -0.156996   -5.601427
0.71836     -5.214661   -3.122762     -0.228717
-0.000624   -0.061132   -6.182081
0.85918     -5.214661   -3.122762     -0.228717
-0.000624   -0.034583   -8.949520
1.00000     -5.214661   -3.122762     -0.228717
-0.000624   -0.138353   -12.274738
```

COMB DB-G2-2 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     4.639996    88.119509     0.561746
 0.004934    0.608896   209.200317
0.57754     4.639996    88.119509     0.561746
 0.004934    0.373570   175.079077
0.71836     4.639996    88.119509     0.561746
 0.004934    0.155655   151.275987
0.85918     4.639996    88.119509     0.561746
 0.004934    0.064070   142.099921
1.00000     4.639996    88.119509     0.561746
 0.004934    0.199408   136.811184
```

COMB DB-G2-2 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -8.036092   -61.288167    -0.349600
-0.005188   -0.386908   -26.049809
0.57754    -8.036092   -61.288167    -0.349600
-0.005188   -0.240355   -7.882532
0.71836    -8.036092   -61.288167    -0.349600
-0.005188   -0.093804   -6.085361
0.85918    -8.036092   -61.288167    -0.349600
-0.005188   -0.099575   -8.872747
1.00000    -8.036092   -61.288167    -0.349600
-0.005188   -0.334927   -12.316859
```

COMB DB-G2-3 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     4.564192    93.718489     0.806691
 0.004449    0.584966   187.465207
0.57754     4.564192    93.718489     0.806691
 0.004449    0.546966   157.516140
0.71836     4.564192    93.718489     0.806691
 0.004449    0.224654   136.828396
0.85918     4.564192    93.718489     0.806691
 0.004449    0.088628   130.898496
1.00000     4.564192    93.718489     0.806691
 0.004449    0.302293   128.389031
```

COMB DB-G2-3 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -10.757231   -60.925429    -0.533801
-0.005356   -0.592908   -34.954641
0.57754    -10.757231   -60.925429    -0.533801
-0.005356   -0.369139   -24.202049
0.71836    -10.757231   -60.925429    -0.533801
-0.005356   -0.145364   -29.537013
0.85918    -10.757231   -60.925429    -0.533801
-0.005356   -0.131264   -37.882439
1.00000    -10.757231   -60.925429    -0.533801
-0.005356   -0.469374   -46.737203
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<           MOVING          LOAD            >
                    3198

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST        P           V2          V3
    T           M2          M3
0.43672     9.610381    83.167954     1.057701
 0.003677    1.175422   161.119072
0.57754     9.610381    83.167954     1.057701
 0.003677    0.732153   134.343710
0.71836     9.610381    83.167954     1.057701
 0.003677    0.299344   114.074296
0.85918     9.610381    83.167954     1.057701
 0.003677    0.116946   105.715987
1.00000     9.610381    83.167954     1.057701
 0.003677    0.428937   115.250343

COMB DB-G2-4 ---------- MIN

REL DIST        P           V2          V3
    T           M2          M3
0.43672    -9.429843   -103.385186    -0.760105
-0.003705   -0.845661   -110.180994
0.57754    -9.429843   -103.385186    -0.760105
-0.003705   -0.527032   -78.162121
0.71836    -9.429843   -103.385186    -0.760105
-0.003705   -0.208399   -56.931160
0.85918    -9.429843   -103.385186    -0.760105
-0.003705   -0.160497   -37.919095
1.00000    -9.429843   -103.385186    -0.760105
-0.003705   -0.600959   -43.265842

COMB DB-G3-1 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     9.358469    9.839390      0.663013
 0.001077    0.743551   11.509596
0.57754     9.358469    9.839390      0.663013
 0.001077    0.466235    7.684678
0.71836     9.358469    9.839390      0.663013
 0.001077    0.189685    4.339931
0.85918     9.358469    9.839390      0.663013
 0.001077    0.077461    3.662613
1.00000     9.358469    9.839390      0.663013
 0.001077    0.305833    3.179192
```

COMB DB-G3-1 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -0.748004   -75.214284    -0.544570
-7.28E-06   -0.607283  -137.912308
0.57754    -0.748004   -75.214284    -0.544570
-7.28E-06   -0.379003  -106.426207
0.71836    -0.748004   -75.214284    -0.544570
-7.28E-06   -0.150711   -74.968026
0.85918    -0.748004   -75.214284    -0.544570
-7.28E-06   -0.095278   -43.519182
1.00000    -0.748004   -75.214284    -0.544570
-7.28E-06   -0.370627   -12.112632
```

COMB DB-G3-2 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    15.834911    35.381466     1.025583
 0.007204    1.126965    90.000992
0.57754    15.834911    35.381466     1.025583
 0.007204    0.698052    78.575928
0.71836    15.834911    35.381466     1.025583
 0.007204    0.290778    79.817294
0.85918    15.834911    35.381466     1.025583
 0.007204    0.114625   100.135449
1.00000    15.834911    35.381466     1.025583
 0.007204    0.398880   121.860375
```

COMB DB-G3-2 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -2.060561   -163.367462    -0.710480
-0.005772   -0.792410   -178.465146
0.57754    -2.060561   -163.367462    -0.710480
-0.005772   -0.494564   -118.075674
0.71836    -2.060561   -163.367462    -0.710480
-0.005772   -0.196725    -77.974133
0.85918    -2.060561   -163.367462    -0.710480
-0.005772   -0.171168    -40.194098
1.00000    -2.060561   -163.367462    -0.710480
-0.005772   -0.597524    -10.224370
```

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3199

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    13.611944    79.553207     1.082708
 0.005202    1.197563   186.527065
0.57754    13.611944    79.553207     1.082708
 0.005202    0.744617   155.679139
0.71836    13.611944    79.553207     1.082708
 0.005202    0.306595   133.656021
0.85918    13.611944    79.553207     1.082708
 0.005202    0.124075   124.977528
1.00000    13.611944    79.553207     1.082708
 0.005202    0.445853   118.048086
```

COMB DB-G3-3 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -6.581099  -133.898121    -0.789835
-0.004138   -0.878633  -160.859775
0.57754    -6.581099  -133.898121    -0.789835
-0.004138   -0.547548  -110.186477
0.71836    -6.581099  -133.898121    -0.789835
-0.004138   -0.216457   -73.479850
0.85918    -6.581099  -133.898121    -0.789835
-0.004138   -0.171327   -38.416999
1.00000    -6.581099  -133.898121    -0.789835
-0.004138   -0.621719   -11.499479
```

COMB DB-G3-4 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    11.687380    82.043348     1.141257
 0.004345    1.265630   162.821011
0.57754    11.687380    82.043348     1.141257
 0.004345    0.787961   134.200088
0.71836    11.687380    82.043348     1.141257
 0.004345    0.322666   113.767721
0.85918    11.687380    82.043348     1.141257
 0.004345    0.130296   105.442136
1.00000    11.687380    82.043348     1.141257
 0.004345    0.476281   101.294833
```

COMB DB-G3-4 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -8.714299  -115.302060    -0.843795
-0.004000   -0.938648  -139.939424
0.57754    -8.714299  -115.302060    -0.843795
-0.004000   -0.584937  -101.306084
0.71836    -8.714299  -115.302060    -0.843795
-0.004000   -0.231221   -75.202677
0.85918    -8.714299  -115.302060    -0.843795
-0.004000   -0.175618   -51.703468
1.00000    -8.714299  -115.302060    -0.843795
-0.004000   -0.651195   -35.321859
```

COMB DL-G1-1 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     0.659070    20.303402     0.506626
 9.36E-06    0.566932    3.087095
0.57754     0.659070    20.303402     0.506626
 9.36E-06    0.354600    2.865729
0.71836     0.659070    20.303402     0.506626
 9.36E-06    0.142261    4.769154
0.85918     0.659070    20.303402     0.506626
 9.36E-06    0.048747    8.608655
1.00000     0.659070    20.303402     0.506626
 9.36E-06    0.200655    12.733292
```

COMB DL-G1-1 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -4.280610   -10.482278    -0.360799
-0.000848   -0.404426   -30.119874
0.57754    -4.280610   -10.482278    -0.360799
-0.000848   -0.253019   -35.014116
0.71836    -4.280610   -10.482278    -0.360799
-0.000848   -0.101564   -41.798557
0.85918    -4.280610   -10.482278    -0.360799
-0.000848   -0.070045   -49.880943
1.00000    -4.280610   -10.482278    -0.360799
-0.000848   -0.282437   -58.072501
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<           MOVING          LOAD            >
                    3200

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     1.109695    46.917514     0.863104
 0.000233    0.965525    32.252657
0.57754     1.109695    46.917514     0.863104
 0.000233    0.603705    23.325501
0.71836     1.109695    46.917514     0.863104
 0.000233    0.242315    17.376865
0.85918     1.109695    46.917514     0.863104
 0.000233    0.084931    15.760164
1.00000     1.109695    46.917514     0.863104
 0.000233    0.341865    19.626277
```

COMB DL-G1-2 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -8.579961   -16.272954    -0.611149
-0.001527   -0.682247   -36.840337
0.57754    -8.579961   -16.272954    -0.611149
-0.001527   -0.426126   -42.741759
0.71836    -8.579961   -16.272954    -0.611149
-0.001527   -0.169616   -52.643247
0.85918    -8.579961   -16.272954    -0.611149
-0.001527   -0.120041   -65.028715
1.00000    -8.579961   -16.272954    -0.611149
-0.001527   -0.481628   -80.510939
```

COMB DL-G1-3 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     1.209281    93.304277     1.052145
 6.81E-05    1.176549   176.163568
0.57754     1.209281    93.304277     1.052145
 6.81E-05    0.735661   146.957354
0.71836     1.209281    93.304277     1.052145
 6.81E-05    0.294963   120.140214
0.85918     1.209281    93.304277     1.052145
 6.81E-05    0.098442    96.802961
1.00000     1.209281    93.304277     1.052145
 6.81E-05    0.395267    77.304382
```

COMB DL-G1-3 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672   -11.245592   -14.556619    -0.704783
-0.001267   -0.785291   -34.129361
0.57754   -11.245592   -14.556619    -0.704783
-0.001267   -0.489955   -39.629882
0.71836   -11.245592   -14.556619    -0.704783
-0.001267   -0.194175   -47.830290
0.85918   -11.245592   -14.556619    -0.704783
-0.001267   -0.146120   -58.656294
1.00000   -11.245592   -14.556619    -0.704783
-0.001267   -0.586787   -71.298943
```

COMB DL-G1-4 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     6.909819    84.690915     1.340830
 0.003249    1.490089   169.092625
0.57754     6.909819    84.690915     1.340830
 0.003249    0.928183   144.366118
0.71836     6.909819    84.690915     1.340830
 0.003249    0.375259   129.198762
0.85918     6.909819    84.690915     1.340830
 0.003249    0.141918   128.943032
1.00000     6.909819    84.690915     1.340830
 0.003249    0.526675   141.343416
```

COMB DL-G1-4 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -9.665029   -84.823862    -0.935672
-0.003812   -1.042850   -83.255249
0.57754    -9.665029   -84.823862    -0.935672
-0.003812   -0.650644   -59.467060
0.71836    -9.665029   -84.823862    -0.935672
-0.003812   -0.258101   -50.382884
0.85918    -9.665029   -84.823862    -0.935672
-0.003812   -0.199751   -50.794790
1.00000    -9.665029   -84.823862    -0.935672
-0.003812   -0.759228   -62.986354
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<           MOVING          LOAD            >
                    3201

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     0.569711    37.071698     0.371875
 0.000177    0.415962    67.093142
0.57754     0.569711    37.071698     0.371875
 0.000177    0.260016    52.803283
0.71836     0.569711    37.071698     0.371875
 0.000177    0.104272    38.334315
0.85918     0.569711    37.071698     0.371875
 0.000177    0.038111    25.238878
1.00000     0.569711    37.071698     0.371875
 0.000177    0.147225    15.746727
```

COMB DL-G2-1 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -5.067774   -3.569154     -0.260043
-0.000522   -0.288378   -6.566627
0.57754    -5.067774   -3.569154     -0.260043
-0.000522   -0.179117   -6.142625
0.71836    -5.067774   -3.569154     -0.260043
-0.000522   -0.070045   -6.716688
0.85918    -5.067774   -3.569154     -0.260043
-0.000522   -0.052034   -8.373249
1.00000    -5.067774   -3.569154     -0.260043
-0.000522   -0.207733   -11.806694
```

COMB DL-G2-2 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     4.160612    81.704537     0.742630
 0.004285    0.813830   212.346497
0.57754     4.160612    81.704537     0.742630
 0.004285    0.503065   180.892368
0.71836     4.160612    81.704537     0.742630
 0.004285    0.192357   158.955232
0.85918     4.160612    81.704537     0.742630
 0.004285    0.082588   149.364184
1.00000     4.160612    81.704537     0.742630
 0.004285    0.262270   143.394024
```

COMB DL-G2-2 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -7.392615   -53.418562    -0.459328
-0.004506   -0.510211   -26.216483
0.57754    -7.392615   -53.418562    -0.459328
-0.004506   -0.317252   -17.106108
0.71836    -7.392615   -53.418562    -0.459328
-0.004506   -0.124494   -6.394422
0.85918    -7.392615   -53.418562    -0.459328
-0.004506   -0.123598   -8.270309
1.00000    -7.392615   -53.418562    -0.459328
-0.004506   -0.433139   -11.994926
```

COMB DL-G2-3 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     4.072976    91.681495     1.059209
 0.003865    1.169800   190.349181
0.57754     4.072976    91.681495     1.059209
 0.003865    0.726241   162.783576
0.71836     4.072976    91.681495     1.059209
 0.003865    0.295319   144.743916
0.85918     4.072976    91.681495     1.059209
 0.003865    0.111754   139.720056
1.00000     4.072976    91.681495     1.059209
 0.003865    0.388703   137.418301
```

COMB DL-G2-3 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -10.176272   -55.648337    -0.687108
-0.004702   -0.765396   -38.054887
0.57754    -10.176272   -55.648337    -0.687108
-0.004702   -0.477092   -26.336148
0.71836    -10.176272   -55.648337    -0.687108
-0.004702   -0.188400   -32.048104
0.85918    -10.176272   -55.648337    -0.687108
-0.004702   -0.150150   -41.387969
1.00000    -10.176272   -55.648337    -0.687108
-0.004702   -0.607538   -51.992552
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<           MOVING          LOAD            >
                    3202

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     8.545515    82.807457     1.441674
 0.003044    1.604909   163.737403
0.57754     8.545515    82.807457     1.441674
 0.003044    1.000975   138.243552
0.71836     8.545515    82.807457     1.441674
 0.003044    0.404362   119.937547
0.85918     8.545515    82.807457     1.441674
 0.003044    0.156586   113.133680
1.00000     8.545515    82.807457     1.441674
 0.003044    0.588188   125.108796
```

COMB DL-G2-4 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -8.857648   -95.501562    -1.044382
-0.003066   -1.163897   -103.980811
0.57754    -8.857648   -95.501562    -1.044382
-0.003066   -0.725693   -73.584599
0.71836    -8.857648   -95.501562    -1.044382
-0.003066   -0.287304   -55.001327
0.85918    -8.857648   -95.501562    -1.044382
-0.003066   -0.212413   -41.422968
1.00000    -8.857648   -95.501562    -1.044382
-0.003066   -0.814976   -49.259473
```

COMB DL-G3-1 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672     8.431178    12.164086     0.947879
 0.000999    1.059492   12.670809
0.57754     8.431178    12.164086     0.947879
 0.000999    0.663245    7.871362
0.71836     8.431178    12.164086     0.947879
 0.000999    0.266448    4.810359
0.85918     8.431178    12.164086     0.947879
 0.000999    0.113877    4.150972
1.00000     8.431178    12.164086     0.947879
 0.000999    0.450576    3.774505
```

COMB DL-G3-1 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -0.615488   -72.515511    -0.802927
-4.29E-06   -0.895068  -135.525086
0.57754    -0.615488   -72.515511    -0.802927
-4.29E-06   -0.558270  -105.343843
0.71836    -0.615488   -72.515511    -0.802927
-4.29E-06   -0.221750   -76.770939
0.85918    -0.615488   -72.515511    -0.802927
-4.29E-06   -0.134256   -49.693098
1.00000    -0.615488   -72.515511    -0.802927
-4.29E-06   -0.531716   -22.738654
```

COMB DL-G3-2 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    14.637702    36.293756     1.398647
 0.007148    1.541902    96.034157
0.57754    14.637702    36.293756     1.398647
 0.007148    0.956501    84.574491
0.71836    14.637702    36.293756     1.398647
 0.007148    0.390065    87.866883
0.85918    14.637702    36.293756     1.398647
 0.007148    0.176344   109.402636
1.00000    14.637702    36.293756     1.398647
 0.007148    0.612063   132.278529
```

COMB DL-G3-2 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -1.692391  -156.734491    -1.083242
-0.005806   -1.207675  -175.263715
0.57754    -1.692391  -156.734491    -1.083242
-0.005806   -0.753337  -112.969905
0.71836    -1.692391  -156.734491    -1.083242
-0.005806   -0.299233   -77.290928
0.85918    -1.692391  -156.734491    -1.083242
-0.005806   -0.225390   -45.671166
1.00000    -1.692391  -156.734491    -1.083242
-0.005806   -0.809598   -16.653203
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<           MOVING          LOAD            >
                    3203

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    12.650628    73.520727     1.510071
 0.005347    1.672228   184.568860
0.57754    12.650628    73.520727     1.510071
 0.005347    1.040371   156.669526
0.71836    12.650628    73.520727     1.510071
 0.005347    0.422651   139.720686
0.85918    12.650628    73.520727     1.510071
 0.005347    0.179193   136.355549
1.00000    12.650628    73.520727     1.510071
 0.005347    0.644517   134.250376
```

COMB DL-G3-3 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -5.706398  -130.399345    -1.141079
-0.004379   -1.270532  -156.866332
0.57754    -5.706398  -130.399345    -1.141079
-0.004379   -0.792032  -104.744886
0.71836    -5.706398  -130.399345    -1.141079
-0.004379   -0.313500   -72.088806
0.85918    -5.706398  -130.399345    -1.141079
-0.004379   -0.233137   -42.628399
1.00000    -5.706398  -130.399345    -1.141079
-0.004379   -0.864530   -16.024533
```

COMB DL-G3-4 ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    10.884167    79.734683     1.574871
 0.004473    1.748064   161.782628
0.57754    10.884167    79.734683     1.574871
 0.004473    1.088696   135.210413
0.71836    10.884167    79.734683     1.574871
 0.004473    0.441231   119.227796
0.85918    10.884167    79.734683     1.574871
 0.004473    0.180260   116.295463
1.00000    10.884167    79.734683     1.574871
 0.004473    0.660588   116.541652
```

COMB DL-G3-4 ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    -8.113423  -113.640094    -1.171936
-0.004159   -1.303514  -138.288175
0.57754    -8.113423  -113.640094    -1.171936
-0.004159   -0.813698   -98.128326
0.71836    -8.113423  -113.640094    -1.171936
-0.004159   -0.322065   -75.477985
0.85918    -8.113423  -113.640094    -1.171936
-0.004159   -0.237876   -49.393712
1.00000    -8.113423  -113.640094    -1.171936
-0.004159   -0.896642   -41.755241
```

COMB DB ---------- MAX

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672    15.834911    94.360822     1.141257
 0.007204    1.265630   209.200317
0.57754    15.834911    94.360822     1.141257
 0.007204    0.787961   175.079077
0.71836    15.834911    94.360822     1.141257
 0.007204    0.322666   151.275987
0.85918    15.834911    94.360822     1.141257
 0.007204    0.130296   142.099921
1.00000    15.834911    94.360822     1.141257
 0.007204    0.476281   136.811184
```

COMB DB ---------- MIN

```
REL DIST        P           V2          V3
    T           M2          M3
0.43672   -11.844913  -163.367462    -0.843795
-0.005772   -0.938648  -178.465146
0.57754   -11.844913  -163.367462    -0.843795
-0.005772   -0.584937  -118.075674
0.71836   -11.844913  -163.367462    -0.843795
-0.005772   -0.231221   -77.974133
0.85918   -11.844913  -163.367462    -0.843795
-0.005772   -0.175618   -57.393092
1.00000   -11.844913  -163.367462    -0.843795
-0.005772   -0.651195   -69.806260
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<           MOVING          LOAD            >
                    3204

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S
```
```

```
COMB       DL ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   14.637702   93.304277    1.574871
 0.007148    1.748064  212.346497
0.57754   14.637702   93.304277    1.574871
 0.007148    1.088696  180.892368
0.71836   14.637702   93.304277    1.574871
 0.007148    0.441231  158.952532
0.85918   14.637702   93.304277    1.574871
 0.007148    0.180260  149.364184
1.00000   14.637702   93.304277    1.574871
 0.007148    0.660588  143.394024

COMB       DL ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672  -11.245592 -156.734491   -1.171936
-0.005806   -1.305314 -175.263715
0.57754  -11.245592 -156.734491   -1.171936
-0.005806   -0.813698 -112.969905
0.71836  -11.245592 -156.734491   -1.171936
-0.005806   -0.322065  -77.290928
0.85918  -11.245592 -156.734491   -1.171936
-0.005806   -0.237879  -65.028715
1.00000  -11.245592 -156.734491   -1.171936
-0.005806   -0.896642  -80.510939

COMB       CAR ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   15.834911   94.360822    1.574871
 0.007204    1.748064  212.346497
0.57754   15.834911   94.360822    1.574871
 0.007204    1.088696  180.892368
0.71836   15.834911   94.360822    1.574871
 0.007204    0.441231  158.952532
0.85918   15.834911   94.360822    1.574871
 0.007204    0.180260  149.364184
1.00000   15.834911   94.360822    1.574871
 0.007204    0.660588  143.394024

COMB       CAR ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672  -11.844913 -163.367462   -1.171936
-0.005806   -1.305314 -178.465146
0.57754  -11.844913 -163.367462   -1.171936
-0.005806   -0.813698 -118.075674
0.71836  -11.844913 -163.367462   -1.171936
-0.005806   -0.322065  -77.974133
0.85918  -11.844913 -163.367462   -1.171936
-0.005806   -0.237879  -65.028715
1.00000  -11.844913 -163.367462   -1.171936
-0.005806   -0.896642  -80.510939

COMB    DESIGN ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672   15.834911   94.360822    1.574871
 0.007204    1.748064  212.346497
0.57754   15.834911   94.360822    1.574871
 0.007204    1.088696  180.892368
0.71836   15.834911   94.360822    1.574871
 0.007204    0.441231  158.952532
0.85918   15.834911   94.360822    1.574871
 0.007204    0.180260  149.364184
1.00000   15.834911   94.360822    1.574871
 0.007204    0.660588  143.394024

COMB    DESIGN ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672  -11.844913 -163.367462   -1.171936
-0.005806   -1.305314 -178.465146
0.57754  -11.844913 -163.367462   -1.171936
-0.005806   -0.813698 -118.075674
0.71836  -11.844913 -163.367462   -1.171936
-0.005806   -0.322065  -77.974133
0.85918  -11.844913 -163.367462   -1.171936
-0.005806   -0.237879  -65.028715
1.00000  -11.844913 -163.367462   -1.171936
-0.005806   -0.896642  -80.510939
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 3205

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM       301 ========== LENGTH =    2.977767

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.524216   16.125027    0.403534
 6.88E-06    0.228274    8.397056
0.14086    0.524216   16.125027    0.403534
 6.88E-06    0.058976   11.518125
0.28172    0.524216   16.125027    0.403534
 6.88E-06    0.077848   14.692706
0.42257    0.524216   16.125027    0.403534
 6.88E-06    0.199732   17.917223
0.56343    0.524216   16.125027    0.403534
 6.88E-06    0.321647   21.156274

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.238532   -7.753201   -0.290660
-0.000507   -0.166014  -48.768866
0.14086   -4.238532   -7.753201   -0.290660
-0.000507   -0.044160  -55.281939
0.28172   -4.238532   -7.753201   -0.290660
-0.000507   -0.111263  -61.853638
0.42257   -4.238532   -7.753201   -0.290660
-0.000507   -0.279506  -68.434425
0.56343   -4.238532   -7.753201   -0.290660
-0.000507   -0.448765  -75.039740

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.866136   42.284388    0.674454
 0.000187    0.382696   15.192260
0.14086    0.866136   42.284388    0.674454
 0.000187    0.109659   11.108862
0.28172    0.866136   42.284388    0.674454
 0.000187    0.134033   21.461350
0.42257    0.866136   42.284388    0.674454
 0.000187    0.338354   25.411300
0.56343    0.866136   42.284388    0.674454
 0.000187    0.542686   30.047530

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -8.524543  -11.458160   -0.487251
-0.001128   -0.274989  -69.833925
0.14086   -8.524543  -11.458160   -0.487251
-0.001128   -0.071041  -84.804007
0.28172   -8.524543  -11.458160   -0.487251
-0.001128   -0.183820 -100.055165
0.42257   -8.524543  -11.458160   -0.487251
-0.001128   -0.466073 -115.664178
0.56343   -8.524543  -11.458160   -0.487251
-0.001128   -0.748968 -132.299407

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.052673   93.118110    0.779049
 0.000225    0.437417   60.771868
0.14086    1.052673   93.118110    0.779049
 0.000225    0.110826   44.506957
0.28172    1.052673   93.118110    0.779049
 0.000225    0.148148   42.636004
0.42257    1.052673   93.118110    0.779049
 0.000225    0.371762   44.622627
0.56343    1.052673   93.118110    0.779049
 0.000225    0.595376   47.494733

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -11.689502  -10.462096   -0.533188
-0.001274   -0.299352  -62.052037
0.14086  -11.689502  -10.462096   -0.533188
-0.001274   -0.075797  -72.024530
0.28172  -11.689502  -10.462096   -0.533188
-0.001274   -0.216533  -86.275208
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 3206

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.42257  -11.689502  -10.462096   -0.533188
-0.001274   -0.543186 -123.324945
0.56343  -11.689502  -10.462096   -0.533188
-0.001274   -0.869860 -161.983016

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.405213   117.910486    1.034294
 0.003971    0.597373   131.225475
0.14086    5.405213   117.910486    1.034294
 0.003971    0.163681   119.827324
0.28172    5.405213   117.910486    1.034294
 0.003971    0.186033   120.253470
0.42257    5.405213   117.910486    1.034294
 0.003971    0.468518   132.337111
0.56343    5.405213   117.910486    1.034294
 0.003971    0.750996   153.040341

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -11.900044  -56.073001   -0.673526
-0.004550   -0.379166  -54.507616
0.14086  -11.900044  -56.073001   -0.673526
-0.004550   -0.104125  -64.308239
0.28172  -11.900044  -56.073001   -0.673526
-0.004550   -0.284768  -78.011964
0.42257  -11.900044  -56.073001   -0.673526
-0.004550   -0.705986 -110.085212
0.56343  -11.900044  -56.073001   -0.673526
-0.004550   -1.139715 -151.362998

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.554668   38.976939    0.257925
 7.92E-05    0.146072   13.829750
0.14086    0.554668   38.976939    0.257925
 7.92E-05    0.037825   10.128645
0.28172    0.554668   38.976939    0.257925
 7.92E-05    0.057605    9.531676
0.42257    0.554668   38.976939    0.257925
 7.92E-05    0.140909    9.730560
0.56343    0.554668   38.976939    0.257925
 7.92E-05    0.224214   10.141852

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.157516   -2.984812   -0.198606
-0.000514   -0.109005  -12.279356
0.14086   -5.157516   -2.984812   -0.198606
-0.000514   -0.025766  -15.982686
0.28172   -5.157516   -2.984812   -0.198606
-0.000514   -0.070316  -30.967493
0.42257   -5.157516   -2.984812   -0.198606
-0.000514   -0.178485  -43.431327
0.56343   -5.157516   -2.984812   -0.198606
-0.000514   -0.286670  -62.523126

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.456770   134.562826    0.552399
 0.005083    0.329115   137.074952
0.14086    1.456770   134.562826    0.552399
 0.005083    0.097715    94.506533
0.28172    1.456770   134.562826    0.552399
 0.005083    0.069383    67.590012
0.42257    1.456770   134.562826    0.552399
 0.005083    0.221792   56.408968
0.56343    1.456770   134.562826    0.552399
 0.005083    0.353704   56.824802

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -10.448052  -10.047085   -0.314491
-0.005587   -0.173938  -12.313379
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 3207

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.14086  -10.448052  -10.047085   -0.314491
-0.005587   -0.052238  -15.859355
0.28172  -10.448052  -10.047085   -0.314491
-0.005587   -0.154116  -24.254563
0.42257  -10.448052  -10.047085   -0.314491
-0.005587   -0.368542  -57.582671
0.56343  -10.448052  -10.047085   -0.314491
-0.005587   -0.600105 -103.042752

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.694281   135.553850    0.805969
 0.004593    0.471109   128.635133
0.14086    1.694281   135.553850    0.805969
 0.004593    0.133295    92.607777
0.28172    1.694281   135.553850    0.805969
 0.004593    0.140850    70.612045
0.42257    1.694281   135.553850    0.805969
 0.004593    0.352061   62.857399
0.56343    1.694281   135.553850    0.805969
 0.004593    0.563320   65.526182

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -12.901102  -14.535647   -0.503666
-0.005450   -0.281713  -46.746492
0.14086  -12.901102  -14.535647   -0.503666
-0.005450   -0.079719  -55.646507
0.28172  -12.901102  -14.535647   -0.503666
-0.005450   -0.222901  -69.667849
0.42257  -12.901102  -14.535647   -0.503666
-0.005450   -0.545360 -105.296338
0.56343  -12.901102  -14.535647   -0.503666
-0.005450   -0.883292 -152.179761

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    7.804899   110.452975    1.104463
 0.003594    0.634594  115.379896
0.14086    7.804899   110.452975    1.104463
 0.003594    0.171541  114.353658
0.28172    7.804899   110.452975    1.104463
 0.003594    0.204590  125.546791
0.42257    7.804899   110.452975    1.104463
 0.003594    0.514156  146.850583
0.56343    7.804899   110.452975    1.104463
 0.003594    0.823763  175.207751

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -10.803178  -73.640869   -0.738155
-0.003781   -0.414685  -43.265675
0.14086  -10.803178  -73.640869   -0.738155
-0.003781   -0.111144  -52.617968
0.28172  -10.803178  -73.640869   -0.738155
-0.003781   -0.303736  -66.034128
0.42257  -10.803178  -73.640869   -0.738155
-0.003781   -0.756751  -98.007189
0.56343  -10.803178  -73.640869   -0.738155
-0.003781   -1.219905 -137.692551

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    9.445433    9.968153    0.726380
 0.001036    0.411726    3.175507
0.14086    9.445433    9.968153    0.726380
 0.001036    0.107053   21.358531
0.28172    9.445433    9.968153    0.726380
 0.001036    0.150322   52.841683
0.42257    9.445433    9.968153    0.726380
 0.001036    0.380382   84.549543
0.56343    9.445433    9.968153    0.726380
 0.001036    0.610420  116.344813
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 3208

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.739265  -75.949453   -0.548435
-0.000155   -0.309725  -12.148548
0.14086   -0.739265  -75.949453   -0.548435
-0.000155   -0.079623  -11.409281
0.28172   -0.739265  -75.949453   -0.548435
-0.000155   -0.197785  -14.734354
0.42257   -0.739265  -75.949453   -0.548435
-0.000155   -0.502357  -18.311470
0.56343   -0.739265  -75.949453   -0.548435
-0.000155   -0.806983  -22.316005

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   12.043848   93.198515    1.101780
 0.007088    0.647833  122.209443
0.14086   12.043848   93.198515    1.101780
 0.007088    0.185741  124.365773
0.28172   12.043848   93.198515    1.101780
 0.007088    0.193388  133.793331
0.42257   12.043848   93.198515    1.101780
 0.007088    0.497010  159.948903
0.56343   12.043848   93.198515    1.101780
 0.007088    0.797646  199.489502

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.106201 -101.997268   -0.716716
-0.005968   -0.404827  -10.204021
0.14086   -5.106201 -101.997268   -0.716716
-0.005968   -0.116520  -14.818461
0.28172   -5.106201 -101.997268   -0.716716
-0.005968   -0.300151  -19.524208
0.42257   -5.106201 -101.997268   -0.716716
-0.005968   -0.741369  -26.974087
0.56343   -5.106201 -101.997268   -0.716716
-0.005968   -1.203500  -52.036362

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   11.051994   118.562828    1.138814
 0.005244    0.658463   118.259338
0.14086   11.051994   118.562828    1.138814
 0.005244    0.181064   115.531069
0.28172   11.051994   118.562828    1.138814
 0.005244    0.213638   127.738904
0.42257   11.051994   118.562828    1.138814
 0.005244    0.536808   153.378456
0.56343   11.051994   118.562828    1.138814
 0.005244    0.859976   188.708853

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -8.589374  -92.028375   -0.770470
-0.004577   -0.432692  -11.478595
0.14086   -8.589374  -92.028375   -0.770470
-0.004577   -0.117962  -15.143677
0.28172   -8.589374  -92.028375   -0.770470
-0.004577   -0.313477  -24.250976
0.42257   -8.589374  -92.028375   -0.770470
-0.004577   -0.776673  -54.857351
0.56343   -8.589374  -92.028375   -0.770470
-0.004577   -1.254212  -95.598187

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    9.575979   114.049262    1.197427
 0.004344    0.689497  101.476908
0.14086    9.575979   114.049262    1.197427
 0.004344    0.187430  100.878393
0.28172    9.575979   114.049262    1.197427
 0.004344    0.227107  112.745405
0.42257    9.575979   114.049262    1.197427
 0.004344    0.570368  135.757655
0.56343    9.575979   114.049262    1.197427
 0.004344    0.913624  166.837409
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 3209

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -10.343808  -80.607680   -0.818358
-0.004146   -0.459407  -35.316524
0.14086  -10.343808  -80.607680   -0.818358
-0.004146   -0.123146  -44.358082
0.28172  -10.343808  -80.607680   -0.818358
-0.004146   -0.328733  -57.448335
0.42257  -10.343808  -80.607680   -0.818358
-0.004146   -0.819042  -88.789509
0.56343  -10.343808  -80.607680   -0.818358
-0.004146   -1.321189 -128.952167

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.633784   20.086897    0.515004
 4.01E-06    0.290713   12.749238
0.14086    0.633784   20.086897    0.515004
 4.01E-06    0.075461   16.965458
0.28172    0.633784   20.086897    0.515004
 4.01E-06    0.103291   21.227978
0.42257    0.633784   20.086897    0.515004
 4.01E-06    0.268458   25.515568
0.56343    0.633784   20.086897    0.515004
 4.01E-06    0.433383   29.818197

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.236528  -10.282226   -0.393042
-0.000470   -0.226453  -58.096055
0.14086   -4.236528  -10.282226   -0.393042
-0.000470   -0.060766  -66.288013
0.28172   -4.236528  -10.282226   -0.393042
-0.000470   -0.140374  -74.556161
0.42257   -4.236528  -10.282226   -0.393042
-0.000470   -0.356026  -82.865947
0.56343   -4.236528  -10.282226   -0.393042
-0.000470   -0.571877  -91.199826

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.025089   47.363744    0.880787
 0.000114    0.497476   19.652297
0.14086    1.025089   47.363744    0.880787
 0.000114    0.128931   24.328331
0.28172    1.025089   47.363744    0.880787
 0.000114    0.168926   29.587465
0.42257    1.025089   47.363744    0.880787
 0.000114    0.433363   35.270087
0.56343    1.025089   47.363744    0.880787
 0.000114    0.697113   41.227321

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -8.571870  -14.843792   -0.628251
-0.000975   -0.357964  -80.549359
0.14086   -8.571870  -14.843792   -0.628251
-0.000975   -0.093728  -97.625574
0.28172   -8.571870  -14.843792   -0.628251
-0.000975   -0.240922 -115.235721
0.42257   -8.571870  -14.843792   -0.628251
-0.000975   -0.609396 -133.816352
0.56343   -8.571870  -14.843792   -0.628251
-0.000975   -0.978472 -153.083692

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.206975   92.190698    1.053916
 0.000219    0.591084   77.300227
0.14086    1.206975   92.190698    1.053916
 0.000219    0.150533   62.224164
0.28172    1.206975   92.190698    1.053916
 0.000219    0.192517   54.209630
0.42257    1.206975   92.190698    1.053916
 0.000219    0.489220   54.589991
0.56343    1.206975   92.190698    1.053916
 0.000219    0.786562   57.781962
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                MOVING          LOAD                >
                                 3210

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -11.123514  -14.322106   -0.706886
-0.001129   -0.399593  -71.324581
0.14086  -11.123514  -14.322106   -0.706886
-0.001129   -0.102004  -84.086679
0.28172  -11.123514  -14.322106   -0.706886
-0.001129   -0.292344 -100.854853
0.42257  -11.123514  -14.322106   -0.706886
-0.001129   -0.733750 -134.425054
0.56343  -11.123514  -14.322106   -0.706886
-0.001129   -1.174681 -170.611896

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.214143   110.028680    1.360393
 0.003129    0.776253   141.341910
0.14086    5.214143   110.028680    1.360393
 0.003129    0.207663   134.341721
0.28172    5.214143   110.028680    1.360393
 0.003129    0.256983   133.204229
0.42257    5.214143   110.028680    1.360393
 0.003129    0.652594   145.429812
0.56343    5.214143   110.028680    1.360393
 0.003129    1.047589   165.227824

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -11.037759  -57.394646   -0.941785
-0.003634   -0.533257  -62.996304
0.14086  -11.037759  -57.394646   -0.941785
-0.003634   -0.146146  -75.503394
0.28172  -11.037759  -57.394646   -0.941785
-0.003634   -0.375135  -91.538739
0.42257  -11.037759  -57.394646   -0.941785
-0.003634   -0.936495 -121.427769
0.56343  -11.037759  -57.394646   -0.941785
-0.003634   -1.506110 -161.570590

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.575696   36.678866    0.376234
 4.94E-06    0.211288   15.742594
0.14086    0.575696   36.678866    0.376234
 4.94E-06    0.053771    9.968870
0.28172    0.575696   36.678866    0.376234
 4.94E-06    0.066989    9.454624
0.42257    0.575696   36.678866    0.376234
 4.94E-06    0.166457    9.905814
0.56343    0.575696   36.678866    0.376234
 4.94E-06    0.265736   10.675842

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.039831   -3.407866   -0.236162
-0.000446   -0.130861  -11.813979
0.14086   -5.039831   -3.407866   -0.236162
-0.000446   -0.031475  -17.543046
0.28172   -5.039831   -3.407866   -0.236162
-0.000446   -0.104661  -30.485526
0.42257   -5.039831   -3.407866   -0.236162
-0.000446   -0.262338  -44.881750
0.56343   -5.039831   -3.407866   -0.236162
-0.000446   -0.420131  -59.678890

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.531501   120.703633    0.735167
 0.004393    0.428993  143.404345
0.14086    1.531501   120.703633    0.735167
 0.004393    0.122910  104.547067
```

0.28172 1.531501 120.703633 0.735167
0.004393 0.121448 73.515194
0.42257 1.531501 120.703633 0.735167
0.004393 0.302852 61.430667
0.56343 1.531501 120.703633 0.735167
0.004393 0.484157 60.256527
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3211

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.560866 -11.012386 -0.432014
-0.004781 -0.242272 -11.992083
0.14086 -9.560866 -11.012386 -0.432014
-0.004781 -0.074181 -16.070098
0.28172 -9.560866 -11.012386 -0.432014
-0.004781 -0.205023 -25.809373
0.42257 -9.560866 -11.012386 -0.432014
-0.004781 -0.499363 -52.872197
0.56343 -9.560866 -11.012386 -0.432014
-0.004781 -0.807283 -95.378999

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.694779 126.759745 1.061079
0.003976 0.611500 137.441905
0.14086 1.694779 126.759745 1.061079
0.003976 0.168920 105.321914
0.28172 1.694779 126.759745 1.061079
0.003976 0.185791 80.338132
0.42257 1.694779 126.759745 1.061079
0.003976 0.469800 72.496162
0.56343 1.694779 126.759745 1.061079
0.003976 0.753219 74.505426

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.114428 -17.129144 -0.675533
-0.004700 -0.382290 -52.008039
0.14086 -12.114428 -17.129144 -0.675533
-0.004700 -0.109909 -62.879856
0.28172 -12.114428 -17.129144 -0.675533
-0.004700 -0.293209 -79.199887
0.42257 -12.114428 -17.129144 -0.675533
-0.004700 -0.725690 -110.967128
0.56343 -12.114428 -17.129144 -0.675533
-0.004700 -1.170289 -156.686731

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.176453 103.805563 1.472018
0.002924 0.837583 125.088908
0.14086 7.176453 103.805563 1.472018
0.002924 0.221330 126.777987
0.28172 7.176453 103.805563 1.472018
0.002924 0.285023 134.554883
0.42257 7.176453 103.805563 1.472018
0.002924 0.570519 154.756535
0.56343 7.176453 103.805563 1.472018
0.002924 1.155701 181.560560

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.000269 -72.994889 -1.037344
-0.003066 -0.585159 -49.260000
0.14086 -10.000269 -72.994889 -1.037344
-0.003066 -0.156341 -60.870290
0.28172 -10.000269 -72.994889 -1.037344
-0.003066 -0.406506 -76.910327
0.42257 -10.000269 -72.994889 -1.037344
-0.003066 -1.016272 -106.287551
0.56343 -10.000269 -72.994889 -1.037344
-0.003066 -1.633160 -144.705423

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.494302 12.303546 0.992198
0.000963 0.560045 3.769135
0.14086 8.494302 12.303546 0.992198
0.000963 0.143213 20.879144
0.28172 8.494302 12.303546 0.992198
0.000963 0.221214 50.584295
0.42257 8.494302 12.303546 0.992198
0.000963 0.558834 80.705810
0.56343 8.494302 12.303546 0.992198
0.000963 0.896789 111.072362
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3212

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.611204 -73.171781 -0.805679
-0.000152 -0.453407 -22.762504
0.14086 -0.611204 -73.171781 -0.805679
-0.000152 -0.115668 -17.363722
0.28172 -0.611204 -73.171781 -0.805679
-0.000152 -0.272079 -21.321574
0.42257 -0.611204 -73.171781 -0.805679
-0.000152 -0.888820 -25.850941
0.56343 -0.611204 -73.171781 -0.805679
-0.000152 -1.104879 -30.775975

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.961388 92.851473 1.449634
0.006990 0.842911 132.313887
0.14086 10.961388 92.851473 1.449634
0.006990 0.236017 133.352716
0.28172 10.961388 92.851473 1.449634
0.006990 0.299117 140.563123
0.42257 10.961388 92.851473 1.449634
0.006990 0.755861 163.249860
0.56343 10.961388 92.851473 1.449634
0.006990 1.212790 198.689969

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.857505 -97.475371 -1.089867
-0.006059 -0.616655 -16.847996
0.14086 -4.857505 -97.475371 -1.089867
-0.006059 -0.176922 -20.542751
0.28172 -4.857505 -97.475371 -1.089867
-0.006059 -0.396123 -22.851867
0.42257 -4.857505 -97.475371 -1.089867
-0.006059 -0.985893 -35.692607
0.56343 -4.857505 -97.475371 -1.089867
-0.006059 -1.593675 -65.455196

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.028300 113.807062 1.545603
0.005364 0.887178 134.258202
0.14086 10.028300 113.807062 1.545603
0.005364 0.240505 127.905519
0.28172 10.028300 113.807062 1.545603
0.005364 0.311134 130.945671
0.42257 10.028300 113.807062 1.545603
0.005364 0.782877 151.976697
0.56343 10.028300 113.807062 1.545603
0.005364 1.254546 183.539201

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.939642 -87.782194 -1.124990
-0.004773 -0.632858 -16.022002
0.14086 -7.939642 -87.782194 -1.124990
-0.004773 -0.174621 -19.458754
0.28172 -7.939642 -87.782194 -1.124990
-0.004773 -0.426552 -30.610974
0.42257 -7.939642 -87.782194 -1.124990
-0.004773 -1.061649 -55.618417
0.56343 -7.939642 -87.782194 -1.124990
-0.004773 -1.709349 -95.714856

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.711879 112.915644 1.613831
0.004455 0.923395 116.559242
0.14086 8.711879 112.915644 1.613831
0.004455 0.248038 113.523882
0.28172 8.711879 112.915644 1.613831
0.004455 0.319000 118.185486
0.42257 8.711879 112.915644 1.613831
0.004455 0.804662 137.788316
0.56343 8.711879 112.915644 1.613831
0.004455 1.290263 166.186692
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3213

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.948721 -78.179225 -1.157388
-0.004288 -0.652292 -41.767425
0.14086 -9.948721 -78.179225 -1.157388
-0.004288 -0.177589 -51.711724
0.28172 -9.948721 -78.179225 -1.157388
-0.004288 -0.444474 -67.878235
0.42257 -9.948721 -78.179225 -1.157388
-0.004288 -1.110270 -95.960413
0.56343 -9.948721 -78.179225 -1.157388
-0.004288 -1.786590 -136.746284

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.043848 135.553850 1.197427
0.007088 0.689497 137.074952
0.14086 12.043848 135.553850 1.197427
0.007088 0.187430 124.365773
0.28172 12.043848 135.553850 1.197427
0.007088 0.227107 133.793331
0.42257 12.043848 135.553850 1.197427
0.007088 0.570368 159.948903
0.56343 12.043848 135.553850 1.197427
0.007088 0.913624 199.489502

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.901102 -101.997268 -0.818358
-0.005968 -0.459407 -69.833925
0.14086 -12.901102 -101.997268 -0.818358
-0.005968 -0.123146 -84.804007
0.28172 -12.901102 -101.997268 -0.818358
-0.005968 -0.328733 -100.055165
0.42257 -12.901102 -101.997268 -0.818358
-0.005968 -0.819042 -123.324945
0.56343 -12.901102 -101.997268 -0.818358
-0.005968 -1.321189 -161.983016

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.961388 126.759745 1.613831
0.006990 0.923395 143.404345
0.14086 10.961388 126.759745 1.613831
0.006990 0.248038 134.341721
0.28172 10.961388 126.759745 1.613831
0.006990 0.319000 140.563123
0.42257 10.961388 126.759745 1.613831
0.006990 0.804662 163.249860
0.56343 10.961388 126.759745 1.613831
0.006990 1.290263 198.689969

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.114428 -97.475371 -1.157388
-0.006059 -0.652292 -80.549359
0.14086 -12.114428 -97.475371 -1.157388
-0.006059 -0.178922 -97.625574
0.28172 -12.114428 -97.475371 -1.157388
-0.006059 -0.444474 -115.235721
0.42257 -12.114428 -97.475371 -1.157388
-0.006059 -1.110270 -134.425054
0.56343 -12.114428 -97.475371 -1.157388
-0.006059 -1.786590 -170.611896

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.043848 135.553850 1.613831
0.007088 0.923395 143.404345
0.14086 12.043848 135.553850 1.613831
0.007088 0.248038 134.341721
0.28172 12.043848 135.553850 1.613831
0.007088 0.319000 140.563123
0.42257 12.043848 135.553850 1.613831
0.007088 0.804662 163.249860
0.56343 12.043848 135.553850 1.613831
0.007088 1.290263 199.489502
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3214

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.901102 -101.997268 -1.157388
-0.006059 -0.652292 -80.549359
0.14086 -12.901102 -101.997268 -1.157388
-0.006059 -0.178922 -97.625574
0.28172 -12.901102 -101.997268 -1.157388
-0.006059 -0.444474 -115.235721
0.42257 -12.901102 -101.997268 -1.157388
-0.006059 -1.110270 -134.425054
0.56343 -12.901102 -101.997268 -1.157388
-0.006059 -1.786590 -170.611896

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.043848 135.553850 1.613831
0.007088 0.923395 143.404345
0.14086 12.043848 135.553850 1.613831
0.007088 0.248038 134.341721
0.28172 12.043848 135.553850 1.613831
0.007088 0.319000 140.563123
0.42257 12.043848 135.553850 1.613831
0.007088 0.804662 163.249860
0.56343 12.043848 135.553850 1.613831
0.007088 1.290263 199.489502

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.901102 -101.997268 -1.157388
-0.006059 -0.652292 -80.549359
0.14086 -12.901102 -101.997268 -1.157388
-0.006059 -0.178922 -97.625574
0.28172 -12.901102 -101.997268 -1.157388
-0.006059 -0.444474 -115.235721
0.42257 -12.901102 -101.997268 -1.157388
-0.006059 -1.110270 -134.425054
0.56343 -12.901102 -101.997268 -1.157388
-0.006059 -1.786590 -170.611896

ELEM 302 ========== LENGTH = 2.977084

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 1.660966 9.443578 0.312215
1.05E-05 0.350390 2.726252
0.57750 1.660966 9.443578 0.312215
1.05E-05 0.219400 2.251148
0.71833 1.660966 9.443578 0.312215
1.05E-05 0.088606 3.088083
0.85917 1.660966 9.443578 0.312215
1.05E-05 0.021226 6.079209
1.00000 1.660966 9.443578 0.312215
1.05E-05 0.091857 10.379886

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -2.617211 -12.097637 -0.168455
-0.001107 -0.190653 -24.704386
0.57750 -2.617211 -12.097637 -0.168455
-0.001107 -0.120026 -27.988691
0.71833 -2.617211 -12.097637 -0.168455
-0.001107 -0.049416 -31.359537
0.85917 -2.617211 -12.097637 -0.168455
-0.001107 -0.042168 -34.795688
1.00000 -2.617211 -12.097637 -0.168455
-0.001107 -0.173222 -38.398599

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 2.043713 28.591217 0.534851
0.000219 0.598705 23.705758
0.57750 2.043713 28.591217 0.534851
0.000219 0.374516 16.897003
0.71833 2.043713 28.591217 0.534851
0.000219 0.150807 11.516765
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3215

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85917 2.043713 28.591217 0.534851
0.000219 0.042372 11.406564
1.00000 2.043713 28.591217 0.534851
0.000219 0.171151 17.256593

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -6.963340 -21.720870 -0.307845
-0.002053 -0.345114 -38.389191
0.57750 -6.963340 -21.720870 -0.307845
-0.002053 -0.216048 -39.953869
0.71833 -6.963340 -21.720870 -0.307845
-0.002053 -0.086981 -44.914345
0.85917 -6.963340 -21.720870 -0.307845
-0.002053 -0.042288 -51.852777
1.00000 -6.963340 -21.720870 -0.307845
-0.002053 -0.298298 -59.329256

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 1.813647 79.551499 0.760400
6.56E-06 0.851312 154.940273
0.57750 1.813647 79.551499 0.760400
6.56E-06 0.532500 126.377572
0.71833 1.813647 79.551499 0.760400
6.56E-06 0.213693 98.555250
0.85917 1.813647 79.551499 0.760400
6.56E-06 0.050734 74.547121
1.00000 1.813647 79.551499 0.760400
6.56E-06 0.198219 55.318444

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -10.326741 -21.011875 -0.351898
-0.001627 -0.391943 -40.973142
0.57750 -10.326741 -21.011875 -0.351898
-0.001627 -0.244402 -41.711165
0.71833 -10.326741 -21.011875 -0.351898
-0.001627 -0.097779 -44.384103
0.85917 -10.326741 -21.011875 -0.351898
-0.001627 -0.104937 -48.164830
1.00000 -10.326741 -21.011875 -0.351898
-0.001627 -0.423938 -52.068698

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 8.058827 74.165659 1.060549
0.004115 1.175539 149.150866
0.57750 8.058827 74.165659 1.060549
0.004115 0.731990 123.825354
0.71833 8.058827 74.165659 1.060549
0.004115 0.298143 106.782465
0.85917 8.058827 74.165659 1.060549
0.004115 0.087022 106.611003
1.00000 8.058827 74.165659 1.060549
0.004115 0.319378 121.302595

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -9.181564 -97.640390 -0.567773
-0.004776 -0.632826 -94.081347
0.57750 -9.181564 -97.640390 -0.567773
-0.004776 -0.394775 -64.841173
0.71833 -9.181564 -97.640390 -0.567773
-0.004776 -0.157254 -49.095344
0.85917 -9.181564 -97.640390 -0.567773
-0.004776 -0.159496 -41.379864
1.00000 -9.181564 -97.640390 -0.567773
-0.004776 -0.603402 -46.890796

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 0.463571 32.945470 0.250006
8.57E-05 0.279518 56.277820
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3216

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57750 0.463571 32.945470 0.250006
8.57E-05 0.174701 43.108469
0.71833 0.463571 32.945470 0.250006
8.57E-05 0.069907 30.348474
0.85917 0.463571 32.945470 0.250006
8.57E-05 0.024019 18.663026
1.00000 0.463571 32.945470 0.250006
8.57E-05 0.087949 12.508108

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -5.438256 -7.794465 -0.152506
-0.000705 -0.167789 -15.370240
0.57750 -5.438256 -7.794465 -0.152506
-0.000705 -0.103855 -12.360190
0.71833 -5.438256 -7.794465 -0.152506
-0.000705 -0.039920 -11.609326
0.85917 -5.438256 -7.794465 -0.152506
-0.000705 -0.034985 -12.356104
1.00000 -5.438256 -7.794465 -0.152506
-0.000705 -0.139786 -13.443463

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 4.491623 80.006463 0.661441
0.004878 0.720390 186.461513
0.57750 4.491623 80.006463 0.661441
0.004878 0.444585 154.995949
0.71833 4.491623 80.006463 0.661441
0.004878 0.181839 133.138719
0.85917 4.491623 80.006463 0.661441
0.004878 0.051312 127.221332
1.00000 4.491623 80.006463 0.661441
0.004878 0.160989 125.062818

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -8.196609 -67.109819 -0.280295
-0.005189 -0.309090 -40.452656
0.57750 -8.196609 -67.109819 -0.280295
-0.005189 -0.191571 -17.579757
0.71833 -8.196609 -67.109819 -0.280295
-0.005189 -0.074675 -13.040209
0.85917 -8.196609 -67.109819 -0.280295
-0.005189 -0.112864 -12.860301
1.00000 -8.196609 -67.109819 -0.280295
-0.005189 -0.389301 -13.248615

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 4.912807 81.058893 0.835753
0.004408 0.918092 167.868572
0.57750 4.912807 81.058893 0.835753
0.004408 0.569057 139.831216
0.71833 4.912807 81.058893 0.835753
0.004408 0.231819 120.422899
0.85917 4.912807 81.058893 0.835753
0.004408 0.062059 117.028076
1.00000 4.912807 81.058893 0.835753
0.004408 0.215290 118.875257

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -10.106680 -69.700737 -0.380344
-0.005518 -0.422589 -51.619741
0.57750 -10.106680 -69.700737 -0.380344
-0.005518 -0.263122 -34.810135
0.71833 -10.106680 -69.700737 -0.380344
-0.005518 -0.103997 -34.215825
0.85917 -10.106680 -69.700737 -0.380344
-0.005518 -0.134230 -37.326946
1.00000 -10.106680 -69.700737 -0.380344
-0.005518 -0.483898 -41.035072
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3217

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 9.203804 76.998778 1.170216
0.003799 1.302301 151.160892
0.57750 9.203804 76.998778 1.170216
0.003799 0.812610 123.990585
0.71833 9.203804 76.998778 1.170216
0.003799 0.330932 103.202261
0.85917 9.203804 76.998778 1.170216
0.003799 0.102856 94.500400
1.00000 9.203804 76.998778 1.170216
0.003799 0.382613 104.893913

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -9.256875 -103.770509 -0.678327
-0.003847 -0.755003 -114.884188
0.57750 -9.256875 -103.770509 -0.678327
-0.003847 -0.470600 -80.912247
0.71833 -9.256875 -103.770509 -0.678327
-0.003847 -0.186675 -57.853102
0.85917 -9.256875 -103.770509 -0.678327
-0.003847 -0.170624 -43.187997
1.00000 -9.256875 -103.770509 -0.678327
-0.003847 -0.660540 -39.653659

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 7.951562 18.017710 0.794879
0.001351 0.895854 23.052941
0.57750 7.951562 18.017710 0.794879
0.001351 0.562586 15.705108
0.71833 7.951562 18.017710 0.794879
0.001351 0.229608 8.627955
0.85917 7.951562 18.017710 0.794879
0.001351 0.088169 3.400205
1.00000 7.951562 18.017710 0.794879
0.001351 0.346544 3.178077

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -1.453123 -62.619879 -0.616155
-7.36E-06 -0.686799 -117.743997
0.57750 -1.453123 -62.619879 -0.616155
-7.36E-06 -0.426463 -91.536869
0.71833 -1.453123 -62.619879 -0.616155
-7.36E-06 -0.170127 -65.356860
0.85917 -1.453123 -62.619879 -0.616155
-7.36E-06 -0.105517 -39.195411
1.00000 -1.453123 -62.619879 -0.616155
-7.36E-06 -0.437233 -13.167450

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 14.636843 43.894761 1.229122
0.007547 1.359384 98.521881
0.57750 14.636843 43.894761 1.229122
0.007547 0.845979 82.490155

0.71833	14.636843	43.894761	1.229122
0.007547	0.348663	78.251583	
0.85917	14.636843	43.894761	1.229122
0.007547	0.128314	93.897877	
1.00000	14.636843	43.894761	1.229122
0.007547	0.467746	115.054289	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-2.863901	-148.841261	-0.831961
-0.005723	-0.927517	-161.291512	
0.57750	-2.863901	-148.841261	-0.831961
-0.005723	-0.578700	-105.114186	
0.71833	-2.863901	-148.841261	-0.831961
-0.005723	-0.229865	-68.851768	
0.85917	-2.863901	-148.841261	-0.831961
-0.005723	-0.189969	-36.558420	
1.00000	-2.863901	-148.841261	-0.831961
-0.005723	-0.702517	-12.916158	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3218
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	12.093824	82.231512	1.322479
0.005473	1.469956	179.994474	
0.57750	12.093824	82.231512	1.322479
0.005473	0.916850	147.343149	
0.71833	12.093824	82.231512	1.322479
0.005473	0.374867	122.885913	
0.85917	12.093824	82.231512	1.322479
0.005473	0.127511	112.539568	
1.00000	12.093824	82.231512	1.322479
0.005473	0.467527	107.791340	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-7.344937	-125.495457	-0.826558
-0.004133	-0.916680	-152.417727	
0.57750	-7.344937	-125.495457	-0.826558
-0.004133	-0.572128	-104.108284	
0.71833	-7.344937	-125.495457	-0.826558
-0.004133	-0.225768	-69.548955	
0.85917	-7.344937	-125.495457	-0.826558
-0.004133	-0.195978	-37.741224	
1.00000	-7.344937	-125.495457	-0.826558
-0.004133	-0.748306	-14.524563	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	10.626329	79.568868	1.297065
0.004536	1.443628	155.198886	
0.57750	10.626329	79.568868	1.297065
0.004536	0.900943	126.148844	
0.71833	10.626329	79.568868	1.297065
0.004536	0.367434	104.057233	
0.85917	10.626329	79.568868	1.297065
0.004536	0.121551	94.773124	
1.00000	10.626329	79.568868	1.297065
0.004536	0.450965	93.385611	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-9.138568	-111.390072	-0.798521
-0.004092	-0.888222	-137.826938	
0.57750	-9.138568	-111.390072	-0.798521
-0.004092	-0.553425	-99.202473	
0.71833	-9.138568	-111.390072	-0.798521
-0.004092	-0.219075	-73.291076	
0.85917	-9.138568	-111.390072	-0.798521
-0.004092	-0.189663	-50.447834	
1.00000	-9.138568	-111.390072	-0.798521
-0.004092	-0.731945	-34.852137	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	2.647372	11.601118	0.411215
7.57E-06	0.460944	4.031372	
0.57750	2.647372	11.601118	0.411215
7.57E-06	0.288536	3.228990	
0.71833	2.647372	11.601118	0.411215
7.57E-06	0.116057	3.623591	
0.85917	2.647372	11.601118	0.411215
7.57E-06	0.029914	8.614374	
1.00000	2.647372	11.601118	0.411215
7.57E-06	0.129695	14.357271	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-2.475439	-15.341650	-0.235327
-0.001175	-0.265237	-37.019116	
0.57750	-2.475439	-15.341650	-0.235327
-0.001175	-0.165981	-36.317456	
0.71833	-2.475439	-15.341650	-0.235327
-0.001175	-0.067361	-36.325798	
0.85917	-2.475439	-15.341650	-0.235327
-0.001175	-0.056346	-40.387478	
1.00000	-2.475439	-15.341650	-0.235327
-0.001175	-0.226743	-44.704411	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3219
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	3.019585	31.095956	0.747783
0.000141	0.836439	24.946991	
0.57750	3.019585	31.095956	0.747783
0.000141	0.522902	17.639578	
0.71833	3.019585	31.095956	0.747783
0.000141	0.209675	11.898392	
0.85917	3.019585	31.095956	0.747783
0.000141	0.055145	13.641470	
1.00000	3.019585	31.095956	0.747783
0.000141	0.227139	21.171908	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-7.182910	-25.868553	-0.408960
-0.001998	-0.457428	-54.354829	
0.57750	-7.182910	-25.868553	-0.408960
-0.001998	-0.284781	-52.508163	
0.71833	-7.182910	-25.868553	-0.408960
-0.001998	-0.114133	-31.095690	
0.85917	-7.182910	-25.868553	-0.408960
-0.001998	-0.104381	-57.535050	
1.00000	-7.182910	-25.868553	-0.408960
-0.001998	-0.417467	-66.236171	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	2.834085	75.127816	1.047128
1.40E-05	1.170678	152.448476	
0.57750	2.834085	75.127816	1.047128
1.40E-05	0.731511	126.377266	
0.71833	2.834085	75.127816	1.047128
1.40E-05	0.291832	101.432985	
0.85917	2.834085	75.127816	1.047128
1.40E-05	0.076259	82.821242	
1.00000	2.834085	75.127816	1.047128
1.40E-05	0.307888	68.855100	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-9.875120	-26.290715	-0.551362
-0.001664	-0.613440	-54.682621	
0.57750	-9.875120	-26.290715	-0.551362
-0.001664	-0.381096	-51.747265	
0.71833	-9.875120	-26.290715	-0.551362
-0.001664	-0.150714	-49.511175	
0.85917	-9.875120	-26.290715	-0.551362
-0.001664	-0.145648	-52.726642	
1.00000	-9.875120	-26.290715	-0.551362
-0.001664	-0.585013	-58.016368	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	8.049488	72.536918	1.436794
0.003349	1.597522	153.136691	
0.57750	8.049488	72.536918	1.436794
0.003349	0.996655	128.972035	
0.71833	8.049488	72.536918	1.436794
0.003349	0.399721	112.234550	
0.85917	8.049488	72.536918	1.436794
0.003349	0.133076	113.305900	
1.00000	8.049488	72.536918	1.436794
0.003349	0.494869	127.875176	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-8.894194	-89.953884	-0.882056
-0.004030	-0.981791	-98.540960	
0.57750	-8.894194	-89.953884	-0.882056
-0.004030	-0.611239	-69.011281	
0.71833	-8.894194	-89.953884	-0.882056
-0.004030	-0.242127	-51.248613	
0.85917	-8.894194	-89.953884	-0.882056
-0.004030	-0.211547	-45.417713	
1.00000	-8.894194	-89.953884	-0.882056
-0.004030	-0.813198	-52.368144	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3220
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	0.406514	29.812206	0.380532
7.60E-05	0.424378	53.292959	
0.57750	0.406514	29.812206	0.380532
7.60E-05	0.265049	41.499906	
0.71833	0.406514	29.812206	0.380532
7.60E-05	0.105274	30.054263	
0.85917	0.406514	29.812206	0.380532
7.60E-05	0.029714	19.837079	
1.00000	0.406514	29.812206	0.380532
7.60E-05	0.112747	13.189024	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-5.666896	-9.036154	-0.198601
-0.000637	-0.219119	-16.708293	
0.57750	-5.666896	-9.036154	-0.198601
-0.000637	-0.135486	-14.452543	
0.71833	-5.666896	-9.036154	-0.198601
-0.000637	-0.052564	-12.501245	
0.85917	-5.666896	-9.036154	-0.198601
-0.000637	-0.053576	-11.574510	
1.00000	-5.666896	-9.036154	-0.198601
-0.000637	-0.212791	-12.551692	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	4.105993	72.577929	0.882011
0.004265	0.969180	183.554495	
0.57750	4.105993	72.577929	0.882011
0.004265	0.601878	155.493314	
0.71833	4.105993	72.577929	0.882011
0.004265	0.241055	136.217274	
0.85917	4.105993	72.577929	0.882011
0.004265	0.083427	130.519714	
1.00000	4.105993	72.577929	0.882011
0.004265	0.268232	128.364402	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-7.850941	-60.019375	-0.471271
-0.004502	-0.520985	-40.646279	
0.57750	-7.850941	-60.019375	-0.471271
-0.004502	-0.332324	-37.502187	
0.71833	-7.850941	-60.019375	-0.471271
-0.004502	-0.125942	-13.217175	
0.85917	-7.850941	-60.019375	-0.471271
-0.004502	-0.143173	-11.808485	
1.00000	-7.850941	-60.019375	-0.471271
-0.004502	-0.511458	-12.418768	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	4.875785	76.040445	1.120980
0.003860	1.238740	165.968903	
0.57750	4.875785	76.040445	1.120980
0.003860	0.771022	140.776977	
0.71833	4.875785	76.040445	1.120980
0.003860	0.309243	123.550550	
0.85917	4.875785	76.040445	1.120980
0.003860	0.097532	121.784708	
1.00000	4.875785	76.040445	1.120980
0.003860	0.335896	124.493125	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-9.732891	-65.705238	-0.596580
-0.004923	-0.662092	-60.894108	
0.57750	-9.732891	-65.705238	-0.596580
-0.004923	-0.411531	-41.550274	
0.71833	-9.732891	-65.705238	-0.596580
-0.004923	-0.161731	-37.201749	
0.85917	-9.732891	-65.705238	-0.596580
-0.004923	-0.173925	-39.163126	
1.00000	-9.732891	-65.705238	-0.596580
-0.004923	-0.642359	-43.769867	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3221
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	8.454064	75.210872	1.607432
0.003229	1.790556	152.373488	
0.57750	8.454064	75.210872	1.607432
0.003229	1.117780	126.490066	
0.71833	8.454064	75.210872	1.607432
0.003229	0.448932	105.747475	
0.85917	8.454064	75.210872	1.607432
0.003229	0.156111	98.677361	
1.00000	8.454064	75.210872	1.607432
0.003229	0.586580	111.001279	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-9.157472	-95.862994	-1.044515
-0.003258	-1.161470	-113.471605	
0.57750	-9.157472	-95.862994	-1.044515
-0.003258	-0.723007	-79.988101	
0.71833	-9.157472	-95.862994	-1.044515
-0.003258	-0.285810	-55.772540	
0.85917	-9.157472	-95.862994	-1.044515
-0.003258	-0.232367	-38.871035	
1.00000	-9.157472	-95.862994	-1.044515
-0.003258	-0.905793	-43.229649	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	6.919947	22.509233	1.120636
0.001378	1.256632	26.612892	
0.57750	6.919947	22.509233	1.120636
0.001378	0.786904	17.513017	
0.71833	6.919947	22.509233	1.120636
0.001378	0.317211	8.520822	
0.85917	6.919947	22.509233	1.120636
0.001378	0.130591	3.781037	
1.00000	6.919947	22.509233	1.120636
0.001378	0.515543	3.743694	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-2.064921	-57.809169	-0.918436
-4.36E-06	-1.023109	-110.922578	
0.57750	-2.064921	-57.809169	-0.918436
-4.36E-06	-0.637785	-86.905096	
0.71833	-2.064921	-57.809169	-0.918436
-4.36E-06	-0.253038	-62.962192	
0.85917	-2.064921	-57.809169	-0.918436
-4.36E-06	-0.152901	-42.804085	
1.00000	-2.064921	-57.809169	-0.918436
-4.36E-06	-0.622635	-25.333066	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	13.422710	47.138170	1.679480
0.007627	1.859752	105.119544	
0.57750	13.422710	47.138170	1.679480
0.007627	1.159477	88.188453	
0.71833	13.422710	47.138170	1.679480
0.007627	0.469096	83.536331	
0.85917	13.422710	47.138170	1.679480
0.007627	0.202559	100.691582	
1.00000	13.422710	47.138170	1.679480
0.007627	0.721447	123.181232	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-3.299590	-140.092168	-1.280724
-0.005718	-1.426730	-153.311633	
0.57750	-3.299590	-140.092168	-1.280724
-0.005718	-0.889602	-97.043901	
0.71833	-3.299590	-140.092168	-1.280724
-0.005718	-0.352813	-64.137589	
0.85917	-3.299590	-140.092168	-1.280724
-0.005718	-0.257838	-39.620712	
1.00000	-3.299590	-140.092168	-1.280724
-0.005718	-0.959371	-21.122842	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3222
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	11.175475	77.755563	1.816576
0.005733	2.017736	176.374684	
0.57750	11.175475	77.755563	1.816576
0.005733	1.258821	146.235914	
0.71833	11.175475	77.755563	1.816576
0.005733	0.506614	125.021669	
0.85917	11.175475	77.755563	1.816576
0.005733	0.200238	120.324508	
1.00000	11.175475	77.755563	1.816576
0.005733	0.728903	120.965920	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-7.337061	-120.326605	-1.292953
-0.004326	-1.437071	-144.088272	
0.57750	-7.337061	-120.326605	-1.292953
-0.004326	-0.894777	-95.654740	
0.71833	-7.337061	-120.326605	-1.292953
-0.004326	-0.352824	-64.058981	
0.85917	-7.337061	-120.326605	-1.292953
-0.004326	-0.269918	-39.268310	
1.00000	-7.337061	-120.326605	-1.292953
-0.004326	-1.030198	-20.417628	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	9.922669	76.927641	1.793168
0.004763	1.694008	152.235135	
0.57750	9.922669	76.927641	1.793168
0.004763	1.244463	125.186485	
0.71833	9.922669	76.927641	1.793168
0.004763	0.500550	105.745863	
0.85917	9.922669	76.927641	1.793168
0.004763	0.186280	102.051296	
1.00000	9.922669	76.927641	1.793168
0.004763	0.686617	105.778396	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-9.351690	-108.955291	-1.219923
-0.004275	-1.356490	-136.784128	
0.57750	-9.351690	-108.955291	-1.219923
-0.004275	-0.844564	-96.982411	
0.71833	-9.351690	-108.955291	-1.219923
-0.004275	-0.333323	-71.304230	
0.85917	-9.351690	-108.955291	-1.219923
-0.004275	-0.263767	-52.907344	
1.00000	-9.351690	-108.955291	-1.219923
-0.004275	-1.014142	-41.166298	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	14.636843	82.231512	1.322479
0.007547	1.469956	186.461513	
0.57750	14.636843	82.231512	1.322479
0.007547	0.916850	154.995949	
0.71833	14.636843	82.231512	1.322479
0.007547	0.374867	133.139179	
0.85917	14.636843	82.231512	1.322479
0.007547	0.128314	127.221332	
1.00000	14.636843	82.231512	1.322479
0.007547	0.467746	125.062818	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-10.326741	-148.841261	-0.831961
-0.005723	-0.927517	-161.291512	
0.57750	-10.326741	-148.841261	-0.831961
-0.005723	-0.578700	-105.114186	
0.71833	-10.326741	-148.841261	-0.831961
-0.005723	-0.229865	-73.291076	
0.85917	-10.326741	-148.841261	-0.831961
-0.005723	-0.195978	-51.657277	
1.00000	-10.326741	-148.841261	-0.831961
-0.005723	-0.748306	-59.329256	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3223
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	13.422710	77.755563	1.816576
0.007627	2.017736	183.554495	
0.57750	13.422710	77.755563	1.816576
0.007627	1.258821	155.493314	
0.71833	13.422710	77.755563	1.816576
0.007627	0.506614	136.217274	
0.85917	13.422710	77.755563	1.816576
0.007627	0.202559	130.519714	
1.00000	13.422710	77.755563	1.816576
0.007627	0.728903	128.364402	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-9.875120	-140.092168	-1.292953
-0.005718	-1.437071	-153.311633	
0.57750	-9.875120	-140.092168	-1.292953
-0.005718	-0.894777	-97.043901	
0.71833	-9.875120	-140.092168	-1.292953
-0.005718	-0.352824	-71.304230	
0.85917	-9.875120	-140.092168	-1.292953
-0.005718	-0.269918	-57.535050	
1.00000	-9.875120	-140.092168	-1.292953
-0.005718	-1.030198	-66.236171	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	14.636843	82.231512	1.816576
0.007627	2.017736	186.461513	
0.57750	14.636843	82.231512	1.816576
0.007627	1.258821	155.493314	
0.71833	14.636843	82.231512	1.816576
0.007627	0.506614	136.217274	
0.85917	14.636843	82.231512	1.816576
0.007627	0.202559	130.519714	
1.00000	14.636843	82.231512	1.816576
0.007627	0.728903	128.364402	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-10.326741	-148.841261	-1.292953
-0.005723	-1.437071	-161.291512	
0.57750	-10.326741	-148.841261	-1.292953
-0.005723	-0.894777	-105.114186	
0.71833	-10.326741	-148.841261	-1.292953
-0.005723	-0.352824	-73.291076	
0.85917	-10.326741	-148.841261	-1.292953
-0.005723	-0.269918	-57.535050	
1.00000	-10.326741	-148.841261	-1.292953
-0.005723	-1.030198	-66.236171	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43667	14.636843	82.231512	1.816576
0.007627	2.017736	186.461513	
0.57750	14.636843	82.231512	1.816576
0.007627	1.258821	155.493314	
0.71833	14.636843	82.231512	1.816576
0.007627	0.506614	136.217274	
0.85917	14.636843	82.231512	1.816576
0.007627	0.202559	130.519714	
1.00000	14.636843	82.231512	1.816576
0.007627	0.728903	128.364402	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43667	-10.326741	-148.841261	-1.292953
-0.005723	-1.437071	-161.291512	
0.57750	-10.326741	-148.841261	-1.292953
-0.005723	-0.894777	-105.114186	
0.71833	-10.326741	-148.841261	-1.292953
-0.005723	-0.352824	-73.291076	
0.85917	-10.326741	-148.841261	-1.292953
-0.005723	-0.269918	-57.535050	
1.00000	-10.326741	-148.841261	-1.292953
-0.005723	-1.030198	-66.236171	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3224
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 303 ========== LENGTH = 2.977084

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.642853	9.534322	0.322036
6.90E-06	0.183185	10.388364	
0.14083	1.642853	9.534322	0.322036
6.90E-06	0.048090	15.213465	
0.28167	1.642853	9.534322	0.322036
6.90E-06	0.051042	20.153823	
0.42250	1.642853	9.534322	0.322036
6.90E-06	0.136536	25.158053	
0.56333	1.642853	9.534322	0.322036
6.90E-06	0.222056	30.198026	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.602332	-12.064302	-0.203971
-0.000702	-0.120231	-38.407069	
0.14083	-2.602332	-12.064302	-0.203971
-0.000702	-0.034870	-42.100522	
0.28167	-2.602332	-12.064302	-0.203971
-0.000702	-0.086877	-45.852569	
0.42250	-2.602332	-12.064302	-0.203971
-0.000702	-0.221879	-49.617764	
0.56333	-2.602332	-12.064302	-0.203971
-0.000702	-0.356897	-53.486216	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.914892	30.193305	0.551028
0.000187	0.313665	17.281794	
0.14083	1.914892	30.193305	0.551028
0.000187	0.082535	23.352306	
0.28167	1.914892	30.193305	0.551028
0.000187	0.086663	29.828027	
0.42250	1.914892	30.193305	0.551028
0.000187	0.225283	37.336422	
0.56333	1.914892	30.193305	0.551028
0.000187	0.363998	45.421760	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.022781	-19.830688	-0.330857
-0.001456	-0.190950	-59.344813	
0.14083	-7.022781	-19.830688	-0.330857
-0.001456	-0.052821	-68.889802	
0.28167	-7.022781	-19.830688	-0.330857
-0.001456	-0.148996	-78.800709	
0.42250	-7.022781	-19.830688	-0.330857
-0.001456	-0.379504	-89.195252	
0.56333	-7.022781	-19.830688	-0.330857
-0.001456	-0.610469	-100.915433	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.795688	79.086287	0.764264
6.21E-06	0.430219	55.309759	
0.14083	1.795688	79.086287	0.764264
6.21E-06	0.109714	46.376723	
0.28167	1.795688	79.086287	0.764264
6.21E-06	0.036512	48.860953	
0.42250	1.795688	79.086287	0.764264
6.21E-06	0.255042	54.123621	
0.56333	1.795688	79.086287	0.764264
6.21E-06	0.411559	60.252831	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.247578	-21.073399	-0.373283
-0.001625	-0.214446	-52.075331	
0.14083	-10.247578	-21.073399	-0.373283
-0.001625	-0.058118	-56.331360	
0.28167	-10.247578	-21.073399	-0.373283
-0.001625	-0.210959	-72.642680	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3225

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42250	-10.247578	-21.073399	-0.373283
-0.001625	-0.531243	-104.347806	
0.56333	-10.247578	-21.073399	-0.373283
-0.001625	-0.851675	-136.868980	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.945893	108.893059	1.101291
0.003832	0.635462	121.502488	
0.14083	5.945893	108.893059	1.101291
0.003832	0.174399	114.403101	
0.28167	5.945893	108.893059	1.101291
0.003832	0.157466	116.524928	
0.42250	5.945893	108.893059	1.101291
0.003832	0.403560	130.301250	
0.56333	5.945893	108.893059	1.101291
0.003832	0.649654	152.519954	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.897931	-60.761972	-0.586922
-0.004828	-0.334649	-46.888171	
0.14083	-10.897931	-60.761972	-0.586922
-0.004828	-0.093559	-52.868209	
0.28167	-10.897931	-60.761972	-0.586922
-0.004828	-0.300039	-69.103330	
0.42250	-10.897931	-60.761972	-0.586922
-0.004828	-0.751340	-97.637204	
0.56333	-10.897931	-60.761972	-0.586922
-0.004828	-1.211820	-135.991812	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.461850	32.749764	0.249375
9.28E-06	0.139601	12.505452	
0.14083	0.461850	32.749764	0.249375
9.28E-06	0.035060	10.807493	
0.28167	0.461850	32.749764	0.249375
9.28E-06	0.036775	11.600270	
0.42250	0.461850	32.749764	0.249375
9.28E-06	0.287757	17.781749	
0.56333	0.461850	32.749764	0.249375
9.28E-06	0.140735	14.546290	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.411961	-7.779155	-0.123980
-0.000646	-0.067256	-13.444941	
0.14083	-5.411961	-7.779155	-0.123980
-0.000646	-0.015603	-17.680198	
0.28167	-5.411961	-7.779155	-0.123980
-0.000646	-0.069616	-29.586605	
0.42250	-5.411961	-7.779155	-0.123980
-0.000646	-0.174133	-42.354417	
0.56333	-5.411961	-7.779155	-0.123980
-0.000646	-0.278687	-55.873126	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.574274	127.589378	0.660135
0.004835	0.388814	125.343337	
0.14083	1.574274	127.589378	0.660135
0.004835	0.113086	66.447267	
0.28167	1.574274	127.589378	0.660135
0.004835	0.073803	63.694072	
0.42250	1.574274	127.589378	0.660135
0.004835	0.185191	54.765401	
0.56333	1.574274	127.589378	0.660135
0.004835	0.296473	57.324533	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.571146	-16.174363	-0.265374
-0.005724	-0.148562	-13.242028	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3226

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14083	-10.571146	-16.174363	-0.265374
-0.005724	-0.043787	-14.008436	
0.28167	-10.571146	-16.174363	-0.265374
-0.005724	-0.181202	-28.339489	
0.42250	-10.571146	-16.174363	-0.265374
-0.005724	-0.443683	-58.791060	
0.56333	-10.571146	-16.174363	-0.265374
-0.005724	-0.718734	-102.591937	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.276366	124.106621	0.842969
0.004369	0.491541	119.137478	
0.14083	2.276366	124.106621	0.842969
0.004369	0.138960	89.781277	
0.28167	2.276366	124.106621	0.842969
0.004369	0.103814	71.268421	
0.42250	2.276366	124.106621	0.842969
0.004369	0.265939	66.999966	
0.56333	2.276366	124.106621	0.842969
0.004369	0.427979	73.116696	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.237221	-23.701399	-0.386485
-0.005725	-0.220301	-41.036178	
0.14083	-12.237221	-23.701399	-0.386485
-0.005725	-0.064200	-45.108077	
0.28167	-12.237221	-23.701399	-0.386485
-0.005725	-0.230197	-61.831571	
0.42250	-12.237221	-23.701399	-0.386485
-0.005725	-0.570738	-92.888573	
0.56333	-12.237221	-23.701399	-0.386485
-0.005725	-0.922611	-135.975429	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.520067	105.077990	1.232562
0.003508	0.707312	105.044045	
0.14083	7.520067	105.077990	1.232562
0.003508	0.191083	106.669473	
0.28167	7.520067	105.077990	1.232562
0.003508	0.185711	117.654777	
0.42250	7.520067	105.077990	1.232562
0.003508	0.472547	138.703087	
0.56333	7.520067	105.077990	1.232562
0.003508	0.759310	166.720923	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.640865	-73.992766	-0.683961
-0.004013	-0.387839	-39.646183	
0.14083	-10.640865	-73.992766	-0.683961
-0.004013	-0.104951	-46.580393	
0.28167	-10.640865	-73.992766	-0.683961
-0.004013	-0.336053	-64.040734	
0.42250	-10.640865	-73.992766	-0.683961
-0.004013	-0.844342	-93.966202	
0.56333	-10.640865	-73.992766	-0.683961
-0.004013	-1.360097	-131.952273	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.000922	17.972585	0.884614
0.001223	0.502118	3.174566	
0.14083	8.000922	17.972585	0.884614
0.001223	0.131220	14.899042	
0.28167	8.000922	17.972585	0.884614
0.001223	0.168433	40.917068	
0.42250	8.000922	17.972585	0.884614
0.001223	0.425776	67.165080	
0.56333	8.000922	17.972585	0.884614
0.001223	0.683132	93.476837	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3227

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.454724	-62.895590	-0.613820
-1.96E-05	-0.346336	-13.191044	
0.14083	-1.454724	-62.895590	-0.613820
-1.96E-05	-0.088992	-16.909599	
0.28167	-1.454724	-62.895590	-0.613820
-1.96E-05	-0.239694	-23.526776	
0.42250	-1.454724	-62.895590	-0.613820
-1.96E-05	-0.610567	-30.544302	
0.56333	-1.454724	-62.895590	-0.613820
-1.96E-05	-0.981458	-37.978826	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.146915	102.284307	1.336860
0.007224	0.780275	115.410224	
0.14083	11.146915	102.284307	1.336860
0.007224	0.221016	109.743340	
0.28167	11.146915	102.284307	1.336860
0.007224	0.227969	113.503345	
0.42250	11.146915	102.284307	1.336860
0.007224	0.576903	134.663198	
0.56333	11.146915	102.284307	1.336860
0.007224	0.925830	169.057557	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.820236	-87.180614	-0.832215
-0.005959	-0.469890	-12.894715	
0.14083	-5.820236	-87.180614	-0.832215
-0.005959	-0.129064	-25.450484	
0.28167	-5.820236	-87.180614	-0.832215
-0.005959	-0.360441	-29.402784	
0.42250	-5.820236	-87.180614	-0.832215
-0.005959	-0.903695	-42.185314	
0.56333	-5.820236	-87.180614	-0.832215
-0.005959	-1.462089	-73.417935	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.716319	121.969082	1.411173
0.005192	0.812438	101.018968	
0.14083	9.716319	121.969082	1.411173
0.005192	0.221643	102.429890	
0.28167	9.716319	121.969082	1.411173
0.005192	0.224129	110.659079	
0.42250	9.716319	121.969082	1.411173
0.005192	0.566041	132.209656	
0.56333	9.716319	121.969082	1.411173
0.005192	0.907843	163.421824	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.328425	-83.365100	-0.815206
-0.004660	-0.459305	-14.502530	
0.14083	-9.328425	-83.365100	-0.815206
-0.004660	-0.122935	-19.647570	
0.28167	-9.328425	-83.365100	-0.815206
-0.004660	-0.384676	-37.880755	
0.42250	-9.328425	-83.365100	-0.815206
-0.004660	-0.964399	-70.150119	
0.56333	-9.328425	-83.365100	-0.815206
-0.004660	-1.554616	-113.228233	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.660570	112.343930	1.378356
0.004302	0.792002	93.580234	
0.14083	8.660570	112.343930	1.378356
0.004302	0.214778	91.819567	
0.28167	8.660570	112.343930	1.378356
0.004302	0.217162	101.692002	
0.42250	8.660570	112.343930	1.378356
0.004302	0.550040	122.679800	
0.56333	8.660570	112.343930	1.378356
0.004302	0.882905	151.667308	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3228

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.766269	-76.575935	-0.793881
-0.004341	-0.448555	-34.840456	
0.14083	-10.766269	-76.575935	-0.793881
-0.004341	-0.120242	-42.953801	
0.28167	-10.766269	-76.575935	-0.793881
-0.004341	-0.375199	-61.542460	
0.42250	-10.766269	-76.575935	-0.793881
-0.004341	-0.943628	-92.368824	
0.56333	-10.766269	-76.575935	-0.793881
-0.004341	-1.519941	-132.504175	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.623635	11.683645	0.413985
4.01E-06	0.234612	14.371370	
0.14083	2.623635	11.683645	0.413985
4.01E-06	0.061494	20.451130	
0.28167	2.623635	11.683645	0.413985
4.01E-06	0.069821	26.605374	
0.42250	2.623635	11.683645	0.413985
4.01E-06	0.185344	32.796804	
0.56333	2.623635	11.683645	0.413985
4.01E-06	0.300683	39.013416	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.457282	-15.356377	-0.275485
-0.000728	-0.161619	-44.717529	
0.14083	-2.457282	-15.356377	-0.275485
-0.000728	-0.046151	-49.164456	
0.28167	-2.457282	-15.356377	-0.275485
-0.000728	-0.113083	-53.660265	
0.42250	-2.457282	-15.356377	-0.275485
-0.000728	-0.286375	-58.188958	
0.56333	-2.457282	-15.356377	-0.275485
-0.000728	-0.459834	-62.748030	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.926023	32.135923	0.748265
0.000112	0.422347	21.194894	
0.14083	2.926023	32.135923	0.748265
0.000112	0.110983	29.557734	
0.28167	2.926023	32.135923	0.748265
0.000112	0.115053	38.532641	
0.42250	2.926023	32.135923	0.748265
0.000112	0.299044	48.029150	
0.56333	2.926023	32.135923	0.748265
0.000112	0.483561	57.968235	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.215581	-24.821539	-0.439511
-0.001406	-0.324524	-66.259441	
0.14083	-7.215581	-24.821539	-0.439511
-0.001406	-0.069552	-76.339068	
0.28167	-7.215581	-24.821539	-0.439511
-0.001406	-0.205731	-87.147024	
0.42250	-7.215581	-24.821539	-0.439511
-0.001406	-0.518861	-99.047945	
0.56333	-7.215581	-24.821539	-0.439511
-0.001406	-0.832622	-111.757120	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.814794	74.787931	1.032332
7.60E-06	0.577328	68.859393	
0.14083	2.814794	74.787931	1.032332
7.60E-06	0.145561	60.411941	
0.28167	2.814794	74.787931	1.032332
7.60E-06	0.150273	59.777967	
0.42250	2.814794	74.787931	1.032332
7.60E-06	0.384440	66.876488	
0.56333	2.814794	74.787931	1.032332
7.60E-06	0.619875	75.596394	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3229

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.816318	-26.410721	-0.559906
-0.001543	-0.317114	-58.029164	
0.14083	-9.816318	-26.410721	-0.559906
-0.001543	-0.082519	-64.008748	
0.28167	-9.816318	-26.410721	-0.559906
-0.001543	-0.287123	-78.871876	
0.42250	-9.816318	-26.410721	-0.559906
-0.001543	-0.720261	-107.230120	
0.56333	-9.816318	-26.410721	-0.559906
-0.001543	-1.152861	-137.068560	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.377362	98.613090	1.449759
0.002991	0.552981	127.890234	
0.14083	6.377362	98.613090	1.449759
0.002991	0.219157	124.150585	
0.28167	6.377362	98.613090	1.449759
0.002991	0.241589	126.996280	
0.42250	6.377362	98.613090	1.449759
0.002991	0.615290	143.065224	
0.56333	6.377362	98.613090	1.449759
0.002991	0.990483	165.936816	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.306661	-62.702605	-0.892843
-0.003985	-0.505617	-52.367209	
0.14083	-10.306661	-62.702605	-0.892843
-0.003985	-0.140057	-60.205741	
0.28167	-10.306661	-62.702605	-0.892843
-0.003985	-0.398472	-75.636199	
0.42250	-10.306661	-62.702605	-0.892843
-0.003985	-1.000942	-102.077725	
0.56333	-10.306661	-62.702605	-0.892843
-0.003985	-1.606751	-139.839955	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.406153	29.775917	0.370648
5.30E-06	0.205766	13.190363	
0.14083	0.406153	29.775917	0.370648
5.30E-06	0.050950	11.634125	
0.28167	0.406153	29.775917	0.370648
5.30E-06	0.050153	13.321067	
0.42250	0.406153	29.775917	0.370648
5.30E-06	0.123623	15.844825	
0.56333	0.406153	29.775917	0.370648
5.30E-06	0.197593	18.711551	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.659433	-9.064444	-0.176035
-0.000597	-0.096670	-12.555323	
0.14083	-5.659433	-9.064444	-0.176035
-0.000597	-0.023044	-17.854653	
0.28167	-5.659433	-9.064444	-0.176035
-0.000597	-0.104152	-28.027817	
0.42250	-5.659433	-9.064444	-0.176035
-0.000597	-0.259631	-39.463115	
0.56333	-5.659433	-9.064444	-0.176035
-0.000597	-0.415178	-51.375934	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.538385	112.395470	0.866605
0.004121	0.499573	128.389157	
0.14083	1.538385	112.395470	0.866605
0.004121	0.138750	94.274678	
0.28167	1.538385	112.395470	0.866605
0.004121	0.123183	69.013168	
0.42250	1.538385	112.395470	0.866605
0.004121	0.307565	62.383388	
0.56333	1.538385	112.395470	0.866605
0.004121	0.492781	65.501617	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3230

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.028393	-17.943024	-0.440903
-0.004936	-0.245400	-12.410338	
0.14083	-10.028393	-17.943024	-0.440903
-0.004936	-0.073451	-13.816346	
0.28167	-10.028393	-17.943024	-0.440903
-0.004936	-0.239441	-26.102574	
0.42250	-10.028393	-17.943024	-0.440903
-0.004936	-0.594097	-51.974406	
0.56333	-10.028393	-17.943024	-0.440903
-0.004936	-0.954338	-94.516868	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.539640	112.124230	1.109699
0.003730	0.635959	124.528439	
0.14083	2.539640	112.124230	1.109699
0.003730	0.173414	98.363379	
0.28167	2.539640	112.124230	1.109699
0.003730	0.160225	80.289339	
0.42250	2.539640	112.124230	1.109699
0.003730	0.407862	78.983625	
0.56333	2.539640	112.124230	1.109699
0.003730	0.655652	86.465903	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.685550	-27.666232	-0.590651
-0.005031	-0.333096	-43.777912	
0.14083	-11.685550	-27.666232	-0.590651
-0.005031	-0.097340	-49.142604	
0.28167	-11.685550	-27.666232	-0.590651
-0.005031	-0.305881	-64.704419	
0.42250	-11.685550	-27.666232	-0.590651
-0.005031	-0.763198	-92.306436	
0.56333	-11.685550	-27.666232	-0.590651
-0.005031	-1.225616	-134.932157	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.090215	96.797700	1.636895
0.002871	0.928711	110.999810	
0.14083	7.090215	96.797700	1.636895
0.002871	0.243683	113.885651	
0.28167	7.090215	96.797700	1.636895
0.002871	0.283704	123.688494	
0.42250	7.090215	96.797700	1.636895
0.002871	0.719298	145.544472	
0.56333	7.090215	96.797700	1.636895
0.002871	1.155501	173.095336	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.329990	-73.339020	-1.039550
-0.003344	-0.585240	-43.221371	
0.14083	-10.329990	-73.339020	-1.039550
-0.003344	-0.156840	-52.093903	
0.28167	-10.329990	-73.339020	-1.039550
-0.003344	-0.450621	-69.515483	
0.42250	-10.329990	-73.339020	-1.039550
-0.003344	-1.132100	-97.505133	
0.56333	-10.329990	-73.339020	-1.039550
-0.003344	-1.816751	-134.910719	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.964142	22.404212	1.187872
0.001195	0.671681	3.738574	
0.14083	6.964142	22.404212	1.187872
0.001195	0.172829	14.556828	
0.28167	6.964142	22.404212	1.187872
0.001195	0.251157	37.725509	
0.42250	6.964142	22.404212	1.187872
0.001195	0.635161	61.421477	
0.56333	6.964142	22.404212	1.187872
0.001195	1.020048	85.365305	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3231

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.077589	-57.942201	-0.916585
-1.45E-05	-0.515601	-25.343042	
0.14083	-2.077589	-57.942201	-0.916585
-1.45E-05	-0.131618	-25.154813	
0.28167	-2.077589	-57.942201	-0.916585
-1.45E-05	-0.324716	-33.069659	
0.42250	-2.077589	-57.942201	-0.916585
-1.45E-05	-0.822764	-41.765461	
0.56333	-2.077589	-57.942201	-0.916585
-1.45E-05	-1.320815	-50.804441	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.825681	103.922868	1.758252
0.007129	1.017146	123.225241	
0.14083	9.825681	103.922868	1.758252
0.007129	0.281683	115.763082	
0.28167	9.825681	103.922868	1.758252
0.007129	0.351089	115.827199	
0.42250	9.825681	103.922868	1.758252
0.007129	0.886693	132.539696	
0.56333	9.825681	103.922868	1.758252
0.007129	1.427670	162.184585	

COMB DL-G3-2 ---------- MIN

```
REL DIST          P          V2          V3
  T          M2          M3
0.00000   -6.447425   -80.521727   -1.283420
-0.005932   -0.724976   -21.105435
0.14083   -6.447425   -80.521727   -1.283420
-0.005932   -0.204350   -28.296000
0.28167   -6.447425   -80.521727   -1.283420
-0.005932   -0.477517   -38.611595
0.42250   -6.447425   -80.521727   -1.283420
-0.005932   -1.201442   -53.179999
0.56333   -6.447425   -80.521727   -1.283420
-0.005932   -1.934753   -91.034310

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000    8.599281   118.530940    1.870195
 0.005326    1.062281   120.988266
0.14083    8.599281   118.530940    1.870195
 0.005326    0.285748   110.207459
0.28167    8.599281   118.530940    1.870195
 0.005326    0.349114   111.608405
0.42250    8.599281   118.530940    1.870195
 0.005326    0.880605   130.182728
0.56333    8.599281   118.530940    1.870195
 0.005326    1.413496   158.435763

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000   -9.587926   -77.523386   -1.268508
-0.004745   -0.711394   -20.400513
0.14083   -9.587926   -77.523386   -1.268508
-0.004745   -0.192829   -25.712136
0.28167   -9.587926   -77.523386   -1.268508
-0.004745   -0.512901   -44.149924
0.42250   -9.587926   -77.523386   -1.268508
-0.004745   -1.287869   -72.616319
0.56333   -9.587926   -77.523386   -1.268508
-0.004745   -2.068864   -117.749588

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000    7.778836   110.738033    1.839756
 0.004424    1.048829   105.806551
0.14083    7.778836   110.738033    1.839756
 0.004424    0.279115   100.466508
0.28167    7.778836   110.738033    1.839756
 0.004424    0.330087   105.155958
0.42250    7.778836   110.738033    1.839756
 0.004424    0.835361   124.250483
0.56333    7.778836   110.738033    1.839756
 0.004424    1.341632   151.429340
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3232

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -11.207502   -73.475328   -1.205559
 -0.004427   -0.677826   -41.161515
0.14083  -11.207502   -73.475328   -1.205559
 -0.004427   -0.183643   -49.828627
0.28167  -11.207502   -73.475328   -1.205559
 -0.004427   -0.504750   -69.278329
0.42250  -11.207502   -73.475328   -1.205559
 -0.004427   -1.266354   -97.681313
0.56333  -11.207502   -73.475328   -1.205559
 -0.004427   -2.037180   -140.123540

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000   11.146915   127.589378    1.411173
 0.007224    0.812438   125.343337
0.14083   11.146915   127.589378    1.411173
 0.007224    0.221643   114.403101
0.28167   11.146915   127.589378    1.411173
 0.007224    0.227969   117.654777
0.42250   11.146915   127.589378    1.411173
 0.007224    0.476903   138.700087
0.56333   11.146915   127.589378    1.411173
 0.007224    0.925830   169.057557

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -12.237221   -87.180614   -0.832215
 -0.005959   -0.469890   -59.344813
0.14083  -12.237221   -87.180614   -0.832215
 -0.005959   -0.129064   -68.889802
0.28167  -12.237221   -87.180614   -0.832215
 -0.005959   -0.384676   -78.000709
0.42250  -12.237221   -87.180614   -0.832215
 -0.005959   -0.964399   -104.347806
0.56333  -12.237221   -87.180614   -0.832215
 -0.005959   -1.554616   -136.868980

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000    9.825681   118.530940    1.870195
 0.007129    1.068281   128.389157
0.14083    9.825681   118.530940    1.870195
 0.007129    0.285748   124.150585
0.28167    9.825681   118.530940    1.870195
 0.007129    0.351089   126.996280
0.42250    9.825681   118.530940    1.870195
 0.007129    0.888693   145.544472
0.56333    9.825681   118.530940    1.870195
 0.007129    1.427670   173.095336

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -11.685550   -80.521727   -1.283420
 -0.005932   -0.724976   -66.259441
0.14083  -11.685550   -80.521727   -1.283420
 -0.005932   -0.204350   -76.339068
0.28167  -11.685550   -80.521727   -1.283420
 -0.005932   -0.512901   -87.147024
0.42250  -11.685550   -80.521727   -1.283420
 -0.005932   -1.287869   -107.230120
0.56333  -11.685550   -80.521727   -1.283420
 -0.005932   -2.068864   -140.123540

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000   11.146915   127.589378    1.870195
 0.007224    1.068281   128.389157
0.14083   11.146915   127.589378    1.870195
 0.007224    0.285748   124.150585
0.28167   11.146915   127.589378    1.870195
 0.007224    0.351089   126.996280
0.42250   11.146915   127.589378    1.870195
 0.007224    0.888693   145.544472
0.56333   11.146915   127.589378    1.870195
 0.007224    1.427670   173.095336
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3233

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -12.237221   -87.180614   -1.283420
 -0.005959   -0.724976   -66.259441
0.14083  -12.237221   -87.180614   -1.283420
 -0.005959   -0.204350   -76.339068
0.28167  -12.237221   -87.180614   -1.283420
 -0.005959   -0.512901   -87.147024
0.42250  -12.237221   -87.180614   -1.283420
 -0.005959   -1.287869   -107.230120
0.56333  -12.237221   -87.180614   -1.283420
 -0.005959   -2.068864   -140.123540

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000   11.146915   127.589378    1.870195
 0.007224    1.068281   128.389157
0.14083   11.146915   127.589378    1.870195
 0.007224    0.285748   124.150585
0.28167   11.146915   127.589378    1.870195
 0.007224    0.351089   126.996280
0.42250   11.146915   127.589378    1.870195
 0.007224    0.888693   145.544472
0.56333   11.146915   127.589378    1.870195
 0.007224    1.427670   173.095336

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -12.237221   -87.180614   -1.283420
 -0.005959   -0.724976   -66.259441
0.14083  -12.237221   -87.180614   -1.283420
 -0.005959   -0.204350   -76.339068
0.28167  -12.237221   -87.180614   -1.283420
 -0.005959   -0.512901   -87.147024
0.42250  -12.237221   -87.180614   -1.283420
 -0.005959   -1.287869   -107.230120
0.56333  -12.237221   -87.180614   -1.283420
 -0.005959   -2.068864   -140.123540

ELEM      304 ================== LENGTH
=    2.977474

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    2.732216    2.417232    0.211474
 0.000155    0.240020    3.049823
0.57746    2.732216    2.417232    0.211474
 0.000155    0.151342    2.279910
0.71831    2.732216    2.417232    0.211474
 0.000155    0.062659    3.447972
0.85915    2.732216    2.417232    0.211474
 0.000155    0.010387    6.017451
1.00000    2.732216    2.417232    0.211474
 0.000155    0.053356   10.921063

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -1.079473   -17.127648   -0.102614
 -0.001186   -0.118775   -21.887663
0.57746   -1.079473   -17.127648   -0.102614
 -0.001186   -0.075741   -22.350683
0.71831   -1.079473   -17.127648   -0.102614
 -0.001186   -0.032754   -22.890536
0.85915   -1.079473   -17.127648   -0.102614
 -0.001186   -0.022607   -23.457029
1.00000   -1.079473   -17.127648   -0.102614
 -0.001186   -0.114723   -24.168191

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    3.724938   10.883558    0.409978
 0.000315    0.460373   11.941501
0.57746    3.724938   10.883558    0.409978
 0.000315    0.288685    8.233749
0.71831    3.724938   10.883558    0.409978
 0.000315    0.117282    6.019960
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3234

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
  T          M2          M3
0.85915    3.724938   10.883558    0.409978
 0.000315    0.020995    8.775771
1.00000    3.724938   10.883558    0.409978
 0.000315    0.090541   17.314981

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -4.524531   -33.730988   -0.170511
 -0.002180   -0.195427   -46.968900
0.57746   -4.524531   -33.730988   -0.170511
 -0.002180   -0.123883   -43.724570
0.71831   -4.524531   -33.730988   -0.170511
 -0.002180   -0.052392   -43.140822
0.85915   -4.524531   -33.730988   -0.170511
 -0.002180   -0.055569   -43.595273
1.00000   -4.524531   -33.730988   -0.170511
 -0.002180   -0.227576   -44.941247

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    3.833982   53.667928    0.673863
 0.000136    0.757254   114.306969
0.57746    3.833982   53.667928    0.673863
 0.000136    0.474660   92.345761
0.71831    3.833982   53.667928    0.673863
 0.000136    0.192049   71.269822
0.85915    3.833982   53.667928    0.673863
 0.000136    0.031725   54.620597
1.00000    3.833982   53.667928    0.673863
 0.000136    0.133980   43.872863

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -7.372275   -39.394053   -0.247457
 -0.001811   -0.281041   -59.935101
0.57746   -7.372275   -39.394053   -0.247457
 -0.001811   -0.177241   -53.601110
0.71831   -7.372275   -39.394053   -0.247457
 -0.001811   -0.073376   -47.421622
0.85915   -7.372275   -39.394053   -0.247457
 -0.001811   -0.090369   -41.966716
1.00000   -7.372275   -39.394053   -0.247457
 -0.001811   -0.373129   -36.969421

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    9.059192   55.144754    1.010144
 0.003928    1.126738   117.869399
0.57746    9.059192   55.144754    1.010144
 0.003928    0.706886   96.151146
0.71831    9.059192   55.144754    1.010144
 0.003928    0.287126   80.947308
0.85915    9.059192   55.144754    1.010144
 0.003928    0.079830   84.583188
1.00000    9.059192   55.144754    1.010144
 0.003928    0.293714   103.961593

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -7.099355   -107.358265   -0.531485
-0.004816   -0.597775   -108.263584
0.57746   -7.099355   -107.358265   -0.531485
-0.004816   -0.374874   -72.881142
0.71831   -7.099355   -107.358265   -0.531485
-0.004816   -0.151936   -50.383136
0.85915   -7.099355   -107.358265   -0.531485
-0.004816   -0.149148   -35.398493
1.00000   -7.099355   -107.358265   -0.531485
-0.004816   -0.572299   -34.344070

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    0.806394   20.185098    0.256269
 1.24E-05    0.285960   32.357740
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3235

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
  T          M2          M3
0.57746    0.806394   20.185098    0.256269
 1.24E-05    0.178492   24.462520
0.71831    0.806394   20.185098    0.256269
 1.24E-05    0.071019   17.296799
0.85915    0.806394   20.185098    0.256269
 1.24E-05    0.012857   12.026035
1.00000    0.806394   20.185098    0.256269
 1.24E-05    0.051385    9.591130

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -4.424795   -16.822054   -0.091634
 -0.000766   -0.102259   -31.075745
0.57746   -4.424795   -16.822054   -0.091634
 -0.000766   -0.063793   -25.279404
0.71831   -4.424795   -16.822054   -0.091634
 -0.000766   -0.025344   -21.208970
0.85915   -4.424795   -16.822054   -0.091634
 -0.000766   -0.036427   -17.542393
1.00000   -4.424795   -16.822054   -0.091634
 -0.000766   -0.143943   -14.830526

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    5.285462   60.456735    0.677795
 0.004459    0.745745   137.911917
0.57746    5.285462   60.456735    0.677795
 0.004459    0.466577   113.672244
0.71831    5.285462   60.456735    0.677795
 0.004459    0.187492   97.334833
0.85915    5.285462   60.456735    0.677795
 0.004459    0.048703   100.053828
1.00000    5.285462   60.456735    0.677795
 0.004459    0.153007   106.108145

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -6.786317   -81.180693   -0.273606
 -0.005146   -0.305868   -69.226588
0.57746   -6.786317   -81.180693   -0.273606
 -0.005146   -0.191100   -38.532652
0.71831   -6.786317   -81.180693   -0.273606
 -0.005146   -0.076251   -25.490910
0.85915   -6.786317   -81.180693   -0.273606
 -0.005146   -0.113646   -18.559890
1.00000   -6.786317   -81.180693   -0.273606
 -0.005146   -0.397445   -12.765943

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    6.311982   56.356195    0.782623
 0.004030    0.866177   125.563995
0.57746    6.311982   56.356195    0.782623
 0.004030    0.542558   103.448512
0.71831    6.311982   56.356195    0.782623
 0.004030    0.219015   88.381147
0.85915    6.311982   56.356195    0.782623
 0.004030    0.104379   91.096520
1.00000    6.311982   56.356195    0.782623
 0.004030    0.172394   102.096198

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -7.765393   -87.095721   -0.308766
 -0.005548   -0.345398   -79.774434
0.57746   -7.765393   -87.095721   -0.308766
 -0.005548   -0.215854   -52.855519
0.71831   -7.765393   -87.095721   -0.308766
 -0.005548   -0.086150   -41.594736
0.85915   -7.765393   -87.095721   -0.308766
 -0.005548   -0.124389   -35.862991
1.00000   -7.765393   -87.095721   -0.308766
 -0.005548   -0.452269   -31.159985
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3236

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    9.036268   62.722478    1.168756
 0.003578    1.307128   126.043271
0.57746    9.036268   62.722478    1.168756
 0.003578    0.819999   101.259351
0.71831    9.036268   62.722478    1.168756
 0.003578    0.333023   81.470788
0.85915    9.036268   62.722478    1.168756
 0.003578    0.100215   75.161220
1.00000    9.036268   62.722478    1.168756
 0.003578    0.375122   88.119819

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -7.950101   -106.857941   -0.670314
 -0.003897   -0.749209   -121.770277
0.57746   -7.950101   -106.857941   -0.670314
 -0.003897   -0.468051   -84.608031
0.71831   -7.950101   -106.857941   -0.670314
 -0.003897   -0.188416   -57.912729
0.85915   -7.950101   -106.857941   -0.670314
 -0.003897   -0.167690   -34.850290
1.00000   -7.950101   -106.857941   -0.670314
 -0.003897   -0.657283   -31.901576

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    5.409080   31.253638    0.860176
 0.001426    0.970972   43.420755
0.57746    5.409080   31.253638    0.860176
 0.001426    0.610318   30.441933
0.71831    5.409080   31.253638    0.860176
 0.001426    0.249898   17.606532
0.85915    5.409080   31.253638    0.860176
 0.001426    0.097621    5.493139
1.00000    5.409080   31.253638    0.860176
 0.001426    0.387631    2.690071

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -3.082142   -40.935641   -0.691650
 -7.21E-06   -0.772595   -81.021917
0.57746   -3.082142   -40.935641   -0.691650
 -7.21E-06   -0.482538   -63.901285
0.71831   -3.082142   -40.935641   -0.691650
 -7.21E-06   -0.192481   -46.806602
0.85915   -3.082142   -40.935641   -0.691650
 -7.21E-06   -0.111734   -29.727416
1.00000   -3.082142   -40.935641   -0.691650
 -7.21E-06   -0.472023   -13.289579

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661   11.878122   54.930291    1.303920
 0.007092    1.453759   108.948088
0.57746   11.878122   54.930291    1.303920
 0.007092    0.913122   87.086139
0.71831   11.878122   54.930291    1.303920
 0.007092    0.372847   74.560291
0.85915   11.878122   54.930291    1.303920
 0.007092    0.148769   84.614988
1.00000   11.878122   54.930291    1.303920
 0.007092    0.541200   103.394889

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -4.451674  -127.442818   -0.966550
 -0.005533   -1.080155  -133.148556
0.57746   -4.451674  -127.442818   -0.966550
 -0.005533   -0.674814   -82.489178
0.71831   -4.451674  -127.442818   -0.966550
 -0.005533   -0.269469   -51.596927
0.85915   -4.451674  -127.442818   -0.966550
 -0.005533   -0.195667   -28.039046
1.00000   -4.451674  -127.442818   -0.966550
 -0.005533   -0.741407   -14.187228
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3237

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661   10.167509   80.720644    1.410748
 0.005180    1.577325   160.787246
0.57746   10.167509   80.720644    1.410748
 0.005180    0.989947   127.899661
0.71831   10.167509   80.720644    1.410748
 0.005180    0.402853   101.523235
0.85915   10.167509   80.720644    1.410748
 0.005180    0.138013   91.620678
1.00000   10.167509   80.720644    1.410748
 0.005180    0.514200   91.153145

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -7.850214  -114.577783   -0.918066
 -0.004085   -1.025763   -139.390425
0.57746   -7.850214  -114.577783   -0.918066
 -0.004085   -0.640753   -93.343141
0.71831   -7.850214  -114.577783   -0.918066
 -0.004085   -0.255671   -60.930327
0.85915   -7.850214  -114.577783   -0.918066
 -0.004085   -0.203815   -33.629285
1.00000   -7.850214  -114.577783   -0.918066
 -0.004085   -0.794663   -15.434473

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    9.495211   71.049257    1.332132
 0.004294    1.489858   136.253849
0.57746    9.495211   71.049257    1.332132
 0.004294    0.934720   107.856792
0.71831    9.495211   71.049257    1.332132
 0.004294    0.379801   85.163112
0.85915    9.495211   71.049257    1.332132
 0.004294    0.122866   87.687663
1.00000    9.495211   71.049257    1.332132
 0.004294    0.460461   79.751097

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -8.760678  -107.199749   -0.822279
 -0.004106   -0.918784   -133.341221
0.57746   -8.760678  -107.199749   -0.822279
 -0.004106   -0.573891   -94.581019
0.71831   -8.760678  -107.199749   -0.822279
 -0.004106   -0.228979   -68.090876
0.85915   -8.760678  -107.199749   -0.822279
 -0.004106   -0.191279   -45.825873
1.00000   -8.760678  -107.199749   -0.822279
 -0.004106   -0.749310   -31.220484

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    4.720199    5.040546    0.288639
 0.000146    0.326014    5.863168
0.57746    4.720199    5.040546    0.288639
 0.000146    0.205167    4.784403
0.71831    4.720199    5.040546    0.288639
 0.000146    0.083769    4.272421
0.85915    4.720199    5.040546    0.288639
 0.000146    0.019606    7.333441
1.00000    4.720199    5.040546    0.288639
 0.000146    0.090311   14.612488

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43661   -1.183022   -23.901640   -0.168053
 -0.001270   -0.190550   -42.764610
0.57746   -1.183022   -23.901640   -0.168053
 -0.001270   -0.119745   -36.128249
0.71831   -1.183022   -23.901640   -0.168053
 -0.001270   -0.049206   -29.838538
0.85915   -1.183022   -23.901640   -0.168053
 -0.001270   -0.036612   -26.844008
1.00000   -1.183022   -23.901640   -0.168053
 -0.001270   -0.157203   -27.048564
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3238

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43661    5.917303   14.201323    0.612698
 0.000255    0.685588   14.916048
0.57746    5.917303   14.201323    0.612698
 0.000255    0.428622   10.132725
0.71831    5.917303   14.201323    0.612698
 0.000255    0.171074    5.349352
0.85915    5.917303   14.201323    0.612698
 0.000255    0.034733    9.559607
1.00000    5.917303   14.201323    0.612698
 0.000255    0.152212   21.157561

COMB DL-G1-2 ------------------- MIN
```

```
REL DIST          P          V2          V3
   T          M2          M3
0.43661   -4.291830   -45.226436   -0.279949
-0.002192   -0.315898   -83.014926
0.57746   -4.291830   -45.226436   -0.279949
-0.002192   -0.197939   -69.471069
0.71831   -4.291830   -45.226436   -0.279949
-0.002192   -0.080395   -56.884547
0.85915   -4.291830   -45.226436   -0.279949
-0.002192   -0.084842   -48.736708
1.00000   -4.291830   -45.226436   -0.279949
-0.002192   -0.341536   -47.390903

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    5.953731    49.345984    0.980665
 0.000144    1.097570   107.936050
0.57746    5.953731    49.345984    0.980665
 0.000144    0.686080    89.298707
0.71831    5.953731    49.345984    0.980665
 0.000144    0.273258    71.677211
0.85915    5.953731    49.345984    0.980665
 0.000144    0.062897    58.778384
1.00000    5.953731    49.345984    0.980665
 0.000144    0.266664    54.720973

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -6.552780   -52.423309   -0.484878
-0.001865   -0.543981   -90.549514
0.57746   -6.552780   -52.423309   -0.484878
-0.001865   -0.339122   -74.053442
0.71831   -6.552780   -52.423309   -0.484878
-0.001865   -0.136132   -57.999009
0.85915   -6.552780   -52.423309   -0.484878
-0.001865   -0.134881   -45.491709
1.00000   -6.552780   -52.423309   -0.484878
-0.001865   -0.546460   -39.475597

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    9.921717    55.216359    1.422371
 0.003400    1.589112   120.231280
0.57746    9.921717    55.216359    1.422371
 0.003400    0.994745    99.972825
0.71831    9.921717    55.216359    1.422371
 0.003400    0.399400    85.755433
0.85915    9.921717    55.216359    1.422371
 0.003400    0.132248    87.596333
1.00000    9.921717    55.216359    1.422371
 0.003400    0.501865   107.401448

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -6.980034  -106.585600   -0.900446
-0.004106   -1.007080  -126.644927
0.57746   -6.980034  -106.585600   -0.900446
-0.004106   -0.628128   -87.440644
0.71831   -6.980034  -106.585600   -0.900446
-0.004106   -0.251044   -57.868509
0.85915   -6.980034  -106.585600   -0.900446
-0.004106   -0.205860   -38.403445
1.00000   -6.980034  -106.585600   -0.900446
-0.004106   -0.802441   -36.704921
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3239

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    0.898395    17.271199    0.399804
 7.67E-06    0.443906    28.368305
0.57746    0.898395    17.271199    0.399804
 7.67E-06    0.276243    21.986405
0.71831    0.898395    17.271199    0.399804
 7.67E-06    0.107869    15.971475
0.85915    0.898395    17.271199    0.399804
 7.67E-06    0.062721    15.207483
1.00000    0.898395    17.271199    0.399804
 7.67E-06    0.087426    10.492264

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -3.814803   -21.732706   -0.156486
-0.000705   -0.174092   -39.292489
0.57746   -3.814803   -21.732706   -0.156486
-0.000705   -0.108168   -31.734532
0.71831   -3.814803   -21.732706   -0.156486
-0.000705   -0.042244   -24.476926
0.85915   -3.814803   -21.732706   -0.156486
-0.000705   -0.058247   -17.715654
1.00000   -3.814803   -21.732706   -0.156486
-0.000705   -0.226655   -14.268180

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    4.947950    52.209452    0.953850
 0.004124    1.056056   127.575743
0.57746    4.947950    52.209452    0.953850
 0.004124    0.659400   108.295665
0.71831    4.947950    52.209452    0.953850
 0.004124    0.261949    96.479510
0.85915    4.947950    52.209452    0.953850
 0.004124    0.087913    99.649442
1.00000    4.947950    52.209452    0.953850
 0.004124    0.291365   107.291260

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -5.879298   -78.848047   -0.516056
-0.004445   -0.574468   -74.016519
0.57746   -5.879298   -78.848047   -0.516056
-0.004445   -0.357149   -43.980661
0.71831   -5.879298   -78.848047   -0.516056
-0.004445   -0.141518   -27.832283
0.85915   -5.879298   -78.848047   -0.516056
-0.004445   -0.153247   -18.221686
1.00000   -5.879298   -78.848047   -0.516056
-0.004445   -0.553634   -11.727571

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    7.151346    50.602918    1.112659
 0.003733    1.235768   118.025570
0.57746    7.151346    50.602918    1.112659
 0.003733    0.772289    99.782127
0.71831    7.151346    50.602918    1.112659
 0.003733    0.307730    88.246563
0.85915    7.151346    50.602918    1.112659
 0.003733    0.092653    91.257826
1.00000    7.151346    50.602918    1.112659
 0.003733    0.321092   105.198332

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -6.870926   -90.528347   -0.574028
-0.005002   -0.641670  -102.768562
0.57746   -6.870926   -90.528347   -0.574028
-0.005002   -0.399952   -70.134637
0.71831   -6.870926   -90.528347   -0.574028
-0.005002   -0.159713   -50.057661
0.85915   -6.870926   -90.528347   -0.574028
-0.005002   -0.172110   -36.845757
1.00000   -6.870926   -90.528347   -0.574028
-0.005002   -0.639033   -31.416723
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3240

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    9.104454    64.174204    1.656968
 0.003239    1.853142   129.110400
0.57746    9.104454    64.174204    1.656968
 0.003239    1.160139   104.654331
0.71831    9.104454    64.174204    1.656968
 0.003239    0.466001    84.659424
0.85915    9.104454    64.174204    1.656968
 0.003239    0.160146    75.497919
1.00000    9.104454    64.174204    1.656968
 0.003239    0.612681    90.576168

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -8.239956  -105.024298   -1.097846
-0.003352   -1.226908  -133.065760
0.57746   -8.239956  -105.024298   -1.097846
-0.003352   -0.765312   -93.341078
0.71831   -8.239956  -105.024298   -1.097846
-0.003352   -0.305213   -61.329692
0.85915   -8.239956  -105.024298   -1.097846
-0.003352   -0.235728   -34.937112
1.00000   -8.239956  -105.024298   -1.097846
-0.003352   -0.931613   -33.159338

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    4.671576    43.882603    1.208981
 0.001546    1.360553    56.066537
0.57746    4.671576    43.882603    1.208981
 0.001546    0.853701    37.889155
0.71831    4.671576    43.882603    1.208981
 0.001546    0.346724    19.999383
0.85915    4.671576    43.882603    1.208981
 0.001546    0.143189     5.154959
1.00000    4.671576    43.882603    1.208981
 0.001546    0.573162     3.453989

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -5.022999   -36.381681   -1.025510
-4.29E-06   -1.145694   -71.297637
0.57746   -5.022999   -36.381681   -1.025510
-4.29E-06   -0.715280   -56.220615
0.71831   -5.022999   -36.381681   -1.025510
-4.29E-06   -0.284886   -41.325268
0.85915   -5.022999   -36.381681   -1.025510
-4.29E-06   -0.159969   -29.208182
1.00000   -5.022999   -36.381681   -1.025510
-4.29E-06   -0.667471   -27.066347

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   10.873686    66.332402    1.804579
 0.007567    2.016379   121.597923
0.57746   10.873686    66.332402    1.804579
 0.007567    1.264589    95.771570
0.71831   10.873686    66.332402    1.804579
 0.007567    0.513170    80.461762
0.85915   10.873686    66.332402    1.804579
 0.007567    0.228933    88.048797
1.00000   10.873686    66.332402    1.804579
 0.007567    0.829974   110.426468

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -6.514906  -119.530668   -1.475877
-0.005519   -1.647258  -121.586753
0.57746   -6.514906  -119.530668   -1.475877
-0.005519   -1.028161   -73.221709
0.71831   -6.514906  -119.530668   -1.475877
-0.005519   -0.409331   -44.427182
0.85915   -6.514906  -119.530668   -1.475877
-0.005519   -0.228050   -24.536906
1.00000   -6.514906  -119.530668   -1.475877
-0.005519   -1.024517   -24.536981
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3241

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    9.435456    83.427427    1.972355
 0.005745    2.204733   160.495315
0.57746    9.435456    83.427427    1.972355
 0.005745    1.381095   127.902256
0.71831    9.435456    83.427427    1.972355
 0.005745    0.556873   102.902772
0.85915    9.435456    83.427427    1.972355
 0.005745    0.221124    95.011453
1.00000    9.435456    83.427427    1.972355
 0.005745    0.821099   102.121336

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -8.955125  -112.382163   -1.462825
-0.004226   -1.632216  -129.336649
0.57746   -8.955125  -112.382163   -1.462825
-0.004226   -1.017635   -84.427424
0.71831   -8.955125  -112.382163   -1.462825
-0.004226   -0.404649   -53.700006
0.85915   -8.955125  -112.382163   -1.462825
-0.004226   -0.285816   -31.469914
1.00000   -8.955125  -112.382163   -1.462825
-0.004226   -1.113568   -23.595495

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661    9.455767    74.161589    1.887469
 0.004774    2.168994   137.310267
0.57746    9.455767    74.161589    1.887469
 0.004774    1.320449   108.790574
0.71831    9.455767    74.161589    1.887469
 0.004774    0.531128    86.696595
0.85915    9.455767    74.161589    1.887469
 0.004774    0.155507    79.623581
1.00000    9.455767    74.161589    1.887469
 0.004774    0.732326    90.010973

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -9.545344  -110.271333   -1.306876
-0.004286   -1.458864  -141.281296
0.57746   -9.545344  -110.271333   -1.306876
-0.004286   -0.909731   -98.939063
0.71831   -9.545344  -110.271333   -1.306876
-0.004286   -0.362242   -68.428966
0.85915   -9.545344  -110.271333   -1.306876
-0.004286   -0.272773   -45.436580
1.00000   -9.545344  -110.271333   -1.306876
-0.004286   -1.065242   -38.001211

COMB DB ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   11.878122    80.720644    1.410748
 0.007092    1.577325   160.787246
0.57746   11.878122    80.720644    1.410748
 0.007092    0.989947   127.890661
0.71831   11.878122    80.720644    1.410748
 0.007092    0.402853   101.523235
0.85915   11.878122    80.720644    1.410748
 0.007092    0.148769   100.053828
1.00000   11.878122    80.720644    1.410748
 0.007092    0.541200   106.108145

COMB DB ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -8.760678  -127.442818   -0.966550
-0.005548   -1.080155  -139.390425
0.57746   -8.760678  -127.442818   -0.966550
-0.005548   -0.674814   -94.581019
0.71831   -8.760678  -127.442818   -0.966550
-0.005548   -0.269469   -68.090876
0.85915   -8.760678  -127.442818   -0.966550
-0.005548   -0.203815   -45.825873
1.00000   -8.760678  -127.442818   -0.966550
-0.005548   -0.794663   -44.341247
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3242

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   10.873686    83.427427    1.972355
 0.007567    2.204733   160.495315
0.57746   10.873686    83.427427    1.972355
 0.007567    1.381095   127.902256
0.71831   10.873686    83.427427    1.972355
 0.007567    0.556873   102.902772
0.85915   10.873686    83.427427    1.972355
 0.007567    0.228933    99.649442
1.00000   10.873686    83.427427    1.972355
 0.007567    0.829974   110.426468

COMB DL ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -9.545344  -119.530668   -1.475877
-0.005519   -1.647258  -141.281296
0.57746   -9.545344  -119.530668   -1.475877
-0.005519   -1.028161   -98.939063
0.71831   -9.545344  -119.530668   -1.475877
-0.005519   -0.409331   -68.428966
0.85915   -9.545344  -119.530668   -1.475877
-0.005519   -0.285816   -48.736708
1.00000   -9.545344  -119.530668   -1.475877
-0.005519   -1.113568   -47.390903

COMB CAR ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   11.878122    83.427427    1.972355
 0.007567    2.204733   160.787246
0.57746   11.878122    83.427427    1.972355
 0.007567    1.381095   127.902256
0.71831   11.878122    83.427427    1.972355
 0.007567    0.556873   102.902772
0.85915   11.878122    83.427427    1.972355
 0.007567    0.228933   100.053828
1.00000   11.878122    83.427427    1.972355
 0.007567    0.829974   110.426468

COMB CAR ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -9.545344  -127.442818   -1.475877
-0.005548   -1.647258  -141.281296
0.57746   -9.545344  -127.442818   -1.475877
-0.005548   -1.028161   -98.939063
0.71831   -9.545344  -127.442818   -1.475877
-0.005548   -0.409331   -68.428966
0.85915   -9.545344  -127.442818   -1.475877
-0.005548   -0.285816   -48.736708
1.00000   -9.545344  -127.442818   -1.475877
-0.005548   -1.113568   -47.390903

COMB DESIGN ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.43661   11.878122    83.427427    1.972355
 0.007567    2.204733   160.787246
0.57746   11.878122    83.427427    1.972355
 0.007567    1.381095   127.902256
0.71831   11.878122    83.427427    1.972355
 0.007567    0.556873   102.902772
0.85915   11.878122    83.427427    1.972355
 0.007567    0.228933   100.053828
1.00000   11.878122    83.427427    1.972355
 0.007567    0.829974   110.426468

COMB DESIGN ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.43661   -9.545344  -127.442818   -1.475877
-0.005548   -1.647258  -141.281296
0.57746   -9.545344  -127.442818   -1.475877
-0.005548   -1.028161   -98.939063
0.71831   -9.545344  -127.442818   -1.475877
-0.005548   -0.409331   -68.428966
0.85915   -9.545344  -127.442818   -1.475877
-0.005548   -0.285816   -48.736708
1.00000   -9.545344  -127.442818   -1.475877
-0.005548   -1.113568   -47.390903
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3243

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      305 ================== LENGTH
=    2.976477

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000    2.701911    2.441550    0.238211
6.64E-06    0.137993   10.929621
0.14081    2.701911    2.441550    0.238211
6.64E-06    0.038037   17.665061
0.28162    2.701911    2.441550    0.238211
6.64E-06    0.034875   24.651618
0.42243    2.701911    2.441550    0.238211
6.64E-06    0.098177   31.684609
0.56324    2.701911    2.441550    0.238211
6.64E-06    0.161526   38.756119

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000   -1.074363   -16.938971   -0.151432
-0.000751   -0.092358   -24.171918
0.14081   -1.074363   -16.938971   -0.151432
-0.000751   -0.029113   -24.879157
0.28162   -1.074363   -16.938971   -0.151432
-0.000751   -0.061703   -25.612173
0.42243   -1.074363   -16.938971   -0.151432
-0.000751   -0.161531   -26.366144
0.56324   -1.074363   -16.938971   -0.151432
-0.000751   -0.261351   -27.170177

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000    3.572925   12.428703    0.420835
 0.000179    0.239786   17.341256
0.14081    3.572925   12.428703    0.420835
 0.000179    0.063379   27.823675
0.28162    3.572925   12.428703    0.420835
 0.000179    0.055611   39.263580
0.42243    3.572925   12.428703    0.420835
 0.000179    0.155638   51.744020
0.56324    3.572925   12.428703    0.420835
 0.000179    0.256183   64.752462

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000   -4.591990   -31.597915   -0.240398
-0.001551   -0.147173   -44.948629
0.14081   -4.591990   -31.597915   -0.240398
-0.001551   -0.047046   -46.927517
0.28162   -4.591990   -31.597915   -0.240398
-0.001551   -0.113585   -49.329983
0.42243   -4.591990   -31.597915   -0.240398
-0.001551   -0.289732   -52.448949
0.56324   -4.591990   -31.597915   -0.240398
-0.001551   -0.465889   -56.623038

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000    3.790497   52.998586    0.681748
 5.98E-06    0.383099   43.876831
0.14081    3.790497   52.998586    0.681748
 5.98E-06    0.097288   46.035240
0.28162    3.790497   52.998586    0.681748
 5.98E-06    0.077359   55.149806
0.42243    3.790497   52.998586    0.681748
 5.98E-06    0.209222   65.862600
0.56324    3.790497   52.998586    0.681748
 5.98E-06    0.341229   77.175990

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000   -7.308288   -39.166111   -0.314995
-0.001753   -0.187174   -36.968198
0.14081   -7.308288   -39.166111   -0.314995
-0.001753   -0.055152   -36.157319
0.28162   -7.308288   -39.166111   -0.314995
-0.001753   -0.188447   -51.573358
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3244

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
   T          M2          M3
0.42243   -7.308288   -39.166111   -0.314995
-0.001753   -0.474169   -71.930806
0.56324   -7.308288   -39.166111   -0.314995
-0.001753   -0.759884   -93.341898

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000    6.786294   89.465015    1.056162
 0.003707    0.609208  104.165593
0.14081    6.786294   89.465015    1.056162
 0.003707    0.166929  104.274260
0.28162    6.786294   89.465015    1.056162
 0.003707    0.154172  109.987121
0.42243    6.786294   89.465015    1.056162
 0.003707    0.399964  127.192792
0.56324    6.786294   89.465015    1.056162
 0.003707    0.645892  151.650235

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000   -8.760939   -70.041451   -0.586798
-0.004671   -0.338130   -32.333903
0.14081   -8.760939   -70.041451   -0.586798
-0.004671   -0.098009   -37.131844
0.28162   -8.760939   -70.041451   -0.586798
-0.004671   -0.288153   -53.703784
0.42243   -8.760939   -70.041451   -0.586798
-0.004671   -0.726407   -74.053535
0.56324   -8.760939   -70.041451   -0.586798
-0.004671   -1.164683  -106.096115

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000    0.799396   19.930032    0.237597
 9.05E-06    0.130585    9.594052
0.14081    0.799396   19.930032    0.237597
 9.05E-06    0.031048   11.725366
0.28162    0.799396   19.930032    0.237597
 9.05E-06    0.025424   15.215053
0.42243    0.799396   19.930032    0.237597
 9.05E-06    0.106790   20.339398
0.56324    0.799396   19.930032    0.237597
 9.05E-06    0.106497   27.006346

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000   -4.400227   -16.734864   -0.097085
-0.000706   -0.056241   -14.831671
0.14081   -4.400227   -16.734864   -0.097085
-0.000706   -0.015585   -18.521587
0.28162   -4.400227   -16.734864   -0.097085
-0.000706   -0.068654   -24.497198
0.42243   -4.400227   -16.734864   -0.097085
-0.000706   -0.168232   -31.728777
0.56324   -4.400227   -16.734864   -0.097085
-0.000706   -0.267812   -39.421593

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
   T          M2          M3
0.00000    2.167163  107.440322    0.668351
 0.004647    0.391002  106.387642
0.14081    2.167163  107.440322    0.668351
 0.004647    0.111487   79.418447
0.28162    2.167163  107.440322    0.668351
 0.004647    0.077193   59.783821
0.42243    2.167163  107.440322    0.668351
 0.004647    0.197456   55.827159
0.56324    2.167163  107.440322    0.668351
 0.004647    0.317925   61.772106

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
   T          M2          M3
0.00000   -9.068476   -29.757063   -0.287406
-0.005442   -0.163886   -12.756118
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3245

F R A M E   E L E M E N T   I N T E R N A
```

L FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.14081	-9.068476	-29.757063	-0.287406
-0.005442	-0.051279	-11.491769	
0.28162	-9.068476	-29.757063	-0.287406
-0.005442	-0.185757	-28.445393	
0.42243	-9.068476	-29.757063	-0.287406
-0.005442	-0.459825	-50.250228	
0.56324	-9.068476	-29.757063	-0.287406
-0.005442	-0.733944	-87.955043	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.473160	98.794287	0.786142
0.004200	0.457883	102.356516	
0.14081	3.473160	98.794287	0.786142
0.004200	0.128861	83.856120	
0.28162	3.473160	98.794287	0.786142
0.004200	0.092298	71.873034	
0.42243	3.473160	98.794287	0.786142
0.004200	0.244409	74.014090	
0.56324	3.473160	98.794287	0.786142
0.004200	0.396721	85.078400	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.818519	-40.543762	-0.363343
-0.005513	-0.212415	-31.154291	
0.14081	-9.818519	-40.543762	-0.363343
-0.005513	-0.067376	-30.588253	
0.28162	-9.818519	-40.543762	-0.363343
-0.005513	-0.216011	-46.908275	
0.42243	-9.818519	-40.543762	-0.363343
-0.005513	-0.540026	-67.255022	
0.56324	-9.818519	-40.543762	-0.363343
-0.005513	-0.864091	-101.992808	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.207436	90.475216	1.227317
0.003434	0.702173	88.278866	
0.14081	7.207436	90.475216	1.227317
0.003434	0.188141	94.432637	
0.28162	7.207436	90.475216	1.227317
0.003434	0.191189	106.187971	
0.42243	7.207436	90.475216	1.227317
0.003434	0.488324	127.514666	
0.56324	7.207436	90.475216	1.227317
0.003434	0.786594	154.811993	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.296959	-76.801454	-0.711638
-0.003897	-0.406480	-31.886609	
0.14081	-9.296959	-76.801454	-0.711638
-0.003897	-0.162971	-37.540456	
0.28162	-9.296959	-76.801454	-0.711638
-0.003897	-0.336535	-57.377361	
0.42243	-9.296959	-76.801454	-0.711638
-0.003897	-0.847326	-80.987459	
0.56324	-9.296959	-76.801454	-0.711638
-0.003897	-1.358141	-114.291690	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.448727	31.361637	0.954167
0.001308	0.540128	2.886216	
0.14081	5.448727	31.361637	0.954167
0.001308	0.140213	6.241737	
0.28162	5.448727	31.361637	0.954167
0.001308	0.189616	23.042044	
0.42243	5.448727	31.361637	0.954167
0.001308	0.476667	40.176552	
0.56324	5.448727	31.361637	0.954167
0.001308	0.763726	57.407225	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3246
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.098507	-41.366336	-0.684909
-1.99E-05	-0.384510	-13.302720	
0.14081	-3.098507	-41.366336	-0.684909
-1.99E-05	-0.097444	-23.981828	
0.28162	-3.098507	-41.366336	-0.684909
-1.99E-05	-0.276766	-36.207235	
0.42243	-3.098507	-41.366336	-0.684909
-1.99E-05	-0.659617	-49.137972	
0.56324	-3.098507	-41.366336	-0.684909
-1.99E-05	-1.059518	-62.159006	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.150884	112.948850	1.421233
0.007082	0.826740	103.734906	
0.14081	8.150884	112.948850	1.421233
0.007082	0.231819	89.398024	
0.28162	8.150884	112.948850	1.421233
0.007082	0.266148	84.696298	
0.42243	8.150884	112.948850	1.421233
0.007082	0.669695	98.307885	
0.56324	8.150884	112.948850	1.421233
0.007082	1.073281	123.485822	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.307007	-65.520185	-0.962938
-0.005516	-0.541065	-14.162450	
0.14081	-7.307007	-65.520185	-0.962938
-0.005516	-0.147143	-27.901882	
0.28162	-7.307007	-65.520185	-0.962938
-0.005516	-0.384826	-42.631767	
0.42243	-7.307007	-65.520185	-0.962938
-0.005516	-0.973061	-62.630710	
0.56324	-7.307007	-65.520185	-0.962938
-0.005516	-1.561418	-101.554968	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.612302	120.070979	1.505690
0.005143	0.863480	91.380424	
0.14081	7.612302	120.070979	1.505690
0.005143	0.232891	83.865780	
0.28162	7.612302	120.070979	1.505690
0.005143	0.253646	86.715142	
0.42243	7.612302	120.070979	1.505690
0.005143	0.638549	102.810760	
0.56324	7.612302	120.070979	1.505690
0.005143	1.023480	127.186165	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.772370	-72.222375	-0.918316
-0.004408	-0.516060	-15.409061	
0.14081	-9.772370	-72.222375	-0.918316
-0.004408	-0.137633	-25.383401	
0.28162	-9.772370	-72.222375	-0.918316
-0.004408	-0.412670	-52.959629	
0.42243	-9.772370	-72.222375	-0.918316
-0.004408	-1.038578	-84.211523	
0.56324	-9.772370	-72.222375	-0.918316
-0.004408	-1.664578	-128.594755	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.378817	103.495592	1.406438
0.004261	0.804841	79.945205	
0.14081	7.378817	103.495592	1.406438
0.004261	0.215718	78.402614	
0.28162	7.378817	103.495592	1.406438
0.004261	0.228807	85.766783	
0.42243	7.378817	103.495592	1.406438
0.004261	0.583191	104.217616	
0.56324	7.378817	103.495592	1.406438
0.004261	0.937784	129.565740	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3247
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.340914	-72.121498	-0.846023
-0.004180	-0.480540	-31.201563	
0.14081	-10.340914	-72.121498	-0.846023
-0.004180	-0.131398	-40.187131	
0.28162	-10.340914	-72.121498	-0.846023
-0.004180	-0.385696	-63.392859	
0.42243	-10.340914	-72.121498	-0.846023
-0.004180	-0.970908	-90.330885	
0.56324	-10.340914	-72.121498	-0.846023
-0.004180	-1.556175	-128.393359	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.676945	5.029928	0.316049
3.86E-06	0.181384	14.625915	
0.14081	4.676945	5.029928	0.316049
3.86E-06	0.049876	23.250873	
0.28162	4.676945	5.029928	0.316049
3.86E-06	0.051539	32.169580	
0.42243	4.676945	5.029928	0.316049
3.86E-06	0.139955	41.464988	
0.56324	4.676945	5.029928	0.316049
3.86E-06	0.228382	50.963199	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.170589	-23.659485	-0.211390
-0.000775	-0.124907	-27.055094	
0.14081	-1.170589	-23.659485	-0.211390
-0.000775	-0.037228	-27.845975	
0.28162	-1.170589	-23.659485	-0.211390
-0.000775	-0.082904	-28.844494	
0.42243	-1.170589	-23.659485	-0.211390
-0.000775	-0.214971	-30.248639	
0.56324	-1.170589	-23.659485	-0.211390
-0.000775	-0.347828	-31.916881	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.783289	14.961306	0.596873
0.000108	0.334579	21.182229	
0.14081	5.783289	14.961306	0.596873
0.000108	0.085560	35.875761	
0.28162	5.783289	14.961306	0.596873
0.000108	0.085533	51.836755	
0.42243	5.783289	14.961306	0.596873
0.000108	0.231361	68.963277	
0.56324	5.783289	14.961306	0.596873
0.000108	0.377024	86.618730	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.323979	-43.768814	-0.348327
-0.001588	-0.204986	-47.847277	
0.14081	-4.323979	-43.768814	-0.348327
-0.001588	-0.060569	-48.747301	
0.28162	-4.323979	-43.768814	-0.348327
-0.001588	-0.164663	-51.416968	
0.42243	-4.323979	-43.768814	-0.348327
-0.001588	-0.411758	-55.711088	
0.56324	-4.323979	-43.768814	-0.348327
-0.001588	-0.665172	-61.234975	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.897290	48.608307	0.950586
7.99E-06	0.528064	54.739732	
0.14081	5.897290	48.608307	0.950586
7.99E-06	0.130420	61.076924	
0.28162	5.897290	48.608307	0.950586
7.99E-06	0.141308	75.168577	
0.42243	5.897290	48.608307	0.950586
7.99E-06	0.370115	92.884503	
0.56324	5.897290	48.608307	0.950586
7.99E-06	0.598946	111.628784	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3248
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.505494	-52.107648	-0.545714
-0.001749	-0.312782	-39.479642	
0.14081	-6.505494	-52.107648	-0.545714
-0.001749	-0.085028	-39.211905	
0.28162	-6.505494	-52.107648	-0.545714
-0.001749	-0.266165	-51.473767	
0.42243	-6.505494	-52.107648	-0.545714
-0.001749	-0.665378	-69.637055	
0.56324	-6.505494	-52.107648	-0.545714
-0.001749	-1.064233	-88.793514	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.157252	81.114349	1.435566
0.002912	0.814877	107.438779	
0.14081	8.157252	81.114349	1.435566
0.002912	0.214183	113.266980	
0.28162	8.157252	81.114349	1.435566
0.002912	0.254320	125.785588	
0.42243	8.157252	81.114349	1.435566
0.002912	0.652848	148.811403	
0.56324	8.157252	81.114349	1.435566
0.002912	1.051160	178.198706	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.391920	-78.683782	-0.950112
-0.004063	-0.540199	-36.697505	
0.14081	-8.391920	-78.683782	-0.950112
-0.004063	-0.150104	-40.635539	
0.28162	-8.391920	-78.683782	-0.950112
-0.004063	-0.397286	-55.379584	
0.42243	-8.391920	-78.683782	-0.950112
-0.004063	-0.997037	-75.632723	
0.56324	-8.391920	-78.683782	-0.950112
-0.004063	-1.596662	-107.600934	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.877389	16.968964	0.348072
5.32E-06	0.188433	10.501710	
0.14081	0.877389	16.968964	0.348072
5.32E-06	0.042604	15.275372	
0.28162	0.877389	16.968964	0.348072
5.32E-06	0.044231	22.095459	
0.42243	0.877389	16.968964	0.348072
5.32E-06	0.114696	30.057072	
0.56324	0.877389	16.968964	0.348072
5.32E-06	0.185246	38.752930	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.799058	-21.611739	-0.167955
-0.000720	-0.095214	-14.272177	
0.14081	-3.799058	-21.611739	-0.167955
-0.000720	-0.024977	-16.789322	
0.28162	-3.799058	-21.611739	-0.167955
-0.000720	-0.102381	-21.643342	
0.42243	-3.799058	-21.611739	-0.167955
-0.000720	-0.248775	-27.611453	
0.56324	-3.799058	-21.611739	-0.167955
-0.000720	-0.394436	-34.149681	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.268419	91.766395	0.907696
0.003942	0.518999	107.340988	
0.14081	2.268419	91.766395	0.907696
0.003942	0.139456	86.322452	
0.28162	2.268419	91.766395	0.907696
0.003942	0.143794	73.936893	
0.42243	2.268419	91.766395	0.907696
0.003942	0.365645	75.636598	
0.56324	2.268419	91.766395	0.907696
0.003942	0.587534	86.395472	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3249
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.035355	-35.963904	-0.528892
-0.004959	-0.299768	-11.720793	
0.14081	-8.035355	-35.963904	-0.528892
-0.004959	-0.089142	-10.651079	
0.28162	-8.035355	-35.963904	-0.528892
-0.004959	-0.256802	-24.464478	
0.42243	-8.035355	-35.963904	-0.528892
-0.004959	-0.634558	-43.616533	
0.56324	-8.035355	-35.963904	-0.528892
-0.004959	-1.011002	-79.948602	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.702361	86.360390	1.073114
0.003568	0.611892	105.251277	
0.14081	4.702361	86.360390	1.073114
0.003568	0.163112	93.483310	
0.28162	4.702361	86.360390	1.073114
0.003568	0.164536	89.960951	
0.42243	4.702361	86.360390	1.073114
0.003568	0.426373	99.236391	
0.56324	4.702361	86.360390	1.073114
0.003568	0.688169	116.778595	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.808169	-51.590728	-0.624078
-0.005104	-0.357911	-31.416528	
0.14081	-8.808169	-51.590728	-0.624078
-0.005104	-0.106551	-31.092453	
0.28162	-8.808169	-51.590728	-0.624078
-0.005104	-0.300930	-44.929199	
0.42243	-8.808169	-51.590728	-0.624078
-0.005104	-0.756586	-63.427246	
0.56324	-8.808169	-51.590728	-0.624078
-0.005104	-1.194602	-97.523079	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.664886	85.646894	1.676511
0.002849	0.947018	90.600162	
0.14081	7.664886	85.646894	1.676511
0.002849	0.244481	100.541564	
0.28162	7.664886	85.646894	1.676511
0.002849	0.307632	117.865661	
0.42243	7.664886	85.646894	1.676511
0.002849	0.785220	143.811524	
0.56324	7.664886	85.646894	1.676511
0.002849	1.262473	175.004952	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.418651	-82.067306	-1.137846
-0.003432	-0.643781	-33.145281	
0.14081	-9.418651	-82.067306	-1.137846
-0.003432	-0.172660	-41.305989	
0.28162	-9.418651	-82.067306	-1.137846
-0.003432	-0.465852	-61.792300	
0.42243	-9.418651	-82.067306	-1.137846
-0.003432	-1.167335	-86.457325	
0.56324	-9.418651	-82.067306	-1.137846
-0.003432	-1.868007	-120.780427	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.712145	44.013742	1.296862
0.001369	0.731353	3.447610	
0.14081	4.712145	44.013742	1.296862
0.001369	0.189991	7.981954	
0.28162	4.712145	44.013742	1.296862
0.001369	0.282063	22.338342	
0.42243	4.712145	44.013742	1.296862
0.001369	0.710978	37.382327	
0.56324	4.712145	44.013742	1.296862
0.001369	1.139565	52.594716	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3250
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.056137	-36.759846	-1.022231
-1.55E-05	-0.572571	-27.061065	
0.14081	-5.056137	-36.759846	-1.022231
-1.55E-05	-0.144434	-39.145035	
0.28162	-5.056137	-36.759846	-1.022231
-1.55E-05	-0.355618	-56.324575	
0.42243	-5.056137	-36.759846	-1.022231
-1.55E-05	-0.899302	-74.402894	
0.56324	-5.056137	-36.759846	-1.022231
-1.55E-05	-1.442857	-92.670525	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.140058	123.443717	1.916109
0.007086	1.105771	110.480094	
0.14081	7.140058	123.443717	1.916109
0.007086	0.302905	95.805641	
0.28162	7.140058	123.443717	1.916109
0.007086	0.405823	88.105220	
0.42243	7.140058	123.443717	1.916109
0.007086	1.023524	98.033820	
0.56324	7.140058	123.443717	1.916109
0.007086	1.640622	120.138281	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.650058	-59.341734	-1.472256
-0.005762	-0.828901	-24.509356	
0.14081	-9.650058	-59.341734	-1.472256
-0.005762	-0.228045	-41.521454	
0.28162	-9.650058	-59.341734	-1.472256
-0.005762	-0.523977	-61.992965	
0.42243	-9.650058	-59.341734	-1.472256
-0.005762	-1.321727	-87.657106	
0.56324	-9.650058	-59.341734	-1.472256
-0.005762	-2.119404	-137.043385	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.750413	124.317992	2.035771
0.005360	1.158545	102.164209	
0.14081	6.750413	124.317992	2.035771
0.005360	0.305430	93.179792	
0.28162	6.750413	124.317992	2.035771
0.005360	0.402858	95.562656	
0.42243	6.750413	124.317992	2.035771
0.005360	1.011696	111.511293	
0.56324	6.750413	124.317992	2.035771
0.005360	1.630053	136.536534	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.205341	-69.074478	-1.462688
-0.004694	-0.821109	-23.569647	
0.14081	-11.205341	-69.074478	-1.462688
-0.004694	-0.219873	-37.577240	
0.28162	-11.205341	-69.074478	-1.462688
-0.004694	-0.563243	-66.999393	
0.42243	-11.205341	-69.074478	-1.462688
-0.004694	-1.413674	-99.737657	
0.56324	-11.205341	-69.074478	-1.462688
-0.004694	-2.263037	-149.802897	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.209806	107.954224	1.920527
0.004453	1.089537	90.052952	
0.14081	7.209806	107.954224	1.920527
0.004453	0.284923	88.784236	
0.28162	7.209806	107.954224	1.920527
0.004453	0.363374	97.408981	
0.42243	7.209806	107.954224	1.920527
0.004453	0.923689	117.501976	
0.56324	7.209806	107.954224	1.920527
0.004453	1.483708	145.204862	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3251
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.400104	-74.242966	-1.335249
-0.004469	-0.753720	-37.984608	
0.14081	-11.400104	-74.242966	-1.335249
-0.004469	-0.204117	-50.046571	
0.28162	-11.400104	-74.242966	-1.335249
-0.004469	-0.532885	-75.444809	
0.42243	-11.400104	-74.242966	-1.335249
-0.004469	-1.335442	-104.276712	
0.56324	-11.400104	-74.242966	-1.335249
-0.004469	-2.137272	-147.669384	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.150884	120.070979	1.505690
0.007082	0.863480	106.387642	
0.14081	8.150884	120.070979	1.505690
0.007082	0.232891	104.274750	
0.28162	8.150884	120.070979	1.505690
0.007082	0.266148	109.987121	
0.42243	8.150884	120.070979	1.505690
0.007082	0.669695	127.514666	
0.56324	8.150884	120.070979	1.505690
0.007082	1.073281	154.811993	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.340914	-76.801454	-0.962938
-0.005516	-0.541065	-44.948629	
0.14081	-10.340914	-76.801454	-0.962938
-0.005516	-0.147143	-46.927517	
0.28162	-10.340914	-76.801454	-0.962938
-0.005516	-0.412670	-63.392859	
0.42243	-10.340914	-76.801454	-0.962938
-0.005516	-1.038578	-90.330885	
0.56324	-10.340914	-76.801454	-0.962938
-0.005516	-1.664578	-128.594755	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.157252	124.317992	2.035771
0.007086	1.158545	110.480094	
0.14081	8.157252	124.317992	2.035771
0.007086	0.305430	113.266980	
0.28162	8.157252	124.317992	2.035771
0.007086	0.405823	125.785588	
0.42243	8.157252	124.317992	2.035771
0.007086	1.023524	148.811403	
0.56324	8.157252	124.317992	2.035771
0.007086	1.640622	178.198706	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.400104	-82.067306	-1.472256
-0.005762	-0.828901	-47.402277	
0.14081	-11.400104	-82.067306	-1.472256
-0.005762	-0.228045	-50.046571	
0.28162	-11.400104	-82.067306	-1.472256
-0.005762	-0.563243	-75.444809	
0.42243	-11.400104	-82.067306	-1.472256
-0.005762	-1.413674	-104.276212	
0.56324	-11.400104	-82.067306	-1.472256
-0.005762	-2.263037	-149.802897	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.157252	124.317992	2.035771

```
 0.007086    1.158545  110.480094
0.14081     8.157252  124.317992     2.035771
 0.007086    0.305430  113.266980
0.28162     8.157252  124.317992     2.035771
 0.007086    0.405823  125.785588
0.42243     8.157252  124.317992     2.035771
 0.007086    1.023524  148.811403
0.56324     8.157252  124.317992     2.035771
 0.007086    1.640622  178.198706
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  3252

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.00000   -11.400104   -82.067306    -1.472256
-0.005762    -0.828901    -47.402277
0.14081   -11.400104   -82.067306    -1.472256
-0.005762    -0.228045    -50.046571
0.28162   -11.400104   -82.067306    -1.472256
-0.005762    -0.563243    -75.444809
0.42243   -11.400104   -82.067306    -1.472256
-0.005762    -1.413674   -104.276212
0.56324   -11.400104   -82.067306    -1.472256
-0.005762    -2.263037   -149.802897

COMB   DESIGN  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.00000     8.157252  124.317992     2.035771
 0.007086    1.158545  110.480094
0.14081     8.157252  124.317992     2.035771
 0.007086    0.305430  113.266980
0.28162     8.157252  124.317992     2.035771
 0.007086    0.405823  125.785588
0.42243     8.157252  124.317992     2.035771
 0.007086    1.023524  148.811403
0.56324     8.157252  124.317992     2.035771
 0.007086    1.640622  178.198706

COMB   DESIGN  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.00000   -11.400104   -82.067306    -1.472256
-0.005762    -0.828901    -47.402277
0.14081   -11.400104   -82.067306    -1.472256
-0.005762    -0.228045    -50.046571
0.28162   -11.400104   -82.067306    -1.472256
-0.005762    -0.563243    -75.444809
0.42243   -11.400104   -82.067306    -1.472256
-0.005762    -1.413674   -104.276212
0.56324   -11.400104   -82.067306    -1.472256
-0.005762    -2.263037   -149.802897

ELEM      306  ================== LENGTH
=     2.977940

COMB DB-G1-1  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     2.616929     2.937421     0.120510
 0.000546    0.135531     3.821894
0.57741     2.616929     2.937421     0.120510
 0.000546    0.084973     3.045307
0.71827     2.616929     2.937421     0.120510
 0.000546    0.034407     2.968225
0.85914     2.616929     2.937421     0.120510
 0.000546    0.011048     3.721847
1.00000     2.616929     2.937421     0.120510
 0.000546    0.045879     7.812909

COMB DB-G1-1  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -0.822433   -20.201054    -0.085637
-0.001013    -0.097814    -26.629841
0.57741   -0.822433   -20.201054    -0.085637
-0.001013    -0.061889    -18.156707
0.71827   -0.822433   -20.201054    -0.085637
-0.001013    -0.025924    -11.823509
0.85914   -0.822433   -20.201054    -0.085637
-0.001013    -0.011055    -3.886563
1.00000   -0.822433   -20.201054    -0.085637
-0.001013    -0.066655    -8.679153

COMB DB-G1-2  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     6.267751     4.594656     0.292871
 0.000898    0.321194     5.976992
0.57741     6.267751     4.594656     0.292871
 0.000898    0.198327     4.135131
0.71827     6.267751     4.594656     0.292871
 0.000898    0.075437     2.462147
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  3253

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2            V3
          T       M2            M3
0.85914     6.267751     4.594656     0.292871
 0.000898    0.023554     3.455564
1.00000     6.267751     4.594656     0.292871
 0.000898    0.080380    13.269809

COMB DB-G1-2  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -0.522011   -42.556942    -0.143194
-0.001893    -0.161126    -69.930507
0.57741   -0.522011   -42.556942    -0.143194
-0.001893    -0.100992    -52.725810
0.71827   -0.522011   -42.556942    -0.143194
-0.001893    -0.040928    -38.542019
0.85914   -0.522011   -42.556942    -0.143194
-0.001893    -0.048125    -32.038770
1.00000   -0.522011   -42.556942    -0.143194
-0.001893    -0.170501    -26.253467

COMB DB-G1-3  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     6.916847    19.840793     0.564241
 0.000661    0.614875    44.197280
0.57741     6.916847    19.840793     0.564241
 0.000661    0.378189    35.922725
0.71827     6.916847    19.840793     0.564241
 0.000661    0.141410    27.950148
0.85914     6.916847    19.840793     0.564241
 0.000661    0.054806    22.170568
1.00000     6.916847    19.840793     0.564241
 0.000661    0.187604    26.659678

COMB DB-G1-3  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -1.647951   -54.739731    -0.322308
-0.001660    -0.355116    -85.010779
0.57741   -1.647951   -54.739731    -0.322308
-0.001660    -0.219865    -62.515501
0.71827   -1.647951   -54.739731    -0.322308
-0.001660    -0.084587    -42.294905
0.85914   -1.647951   -54.739731    -0.322308
-0.001660    -0.095068    -28.481041
1.00000   -1.647951   -54.739731    -0.322308
-0.001660    -0.331940    -17.516268

COMB DB-G1-4  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     8.990608    28.854345     0.931400
 0.003833    1.014052    57.621999
0.57741     8.990608    28.854345     0.931400
 0.003833    0.623398    46.332582
0.71827     8.990608    28.854345     0.931400
 0.003833    0.232706    38.880406
0.85914     8.990608    28.854345     0.931400
 0.003833    0.118160    49.579320
1.00000     8.990608    28.854345     0.931400
 0.003833    0.397477    78.216293

COMB DB-G1-4  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -3.309183  -110.871291    -0.674446
-0.003773    -0.735818   -124.193217
0.57741   -3.309183  -110.871291    -0.674446
-0.003773    -0.452858    -78.254624
0.71827   -3.309183  -110.871291    -0.674446
-0.003773    -0.169875    -42.235177
0.85914   -3.309183  -110.871291    -0.674446
-0.003773    -0.168512    -23.870974
1.00000   -3.309183  -110.871291    -0.674446
-0.003773    -0.553719    -17.133111

COMB DB-G2-1  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     3.896553     2.467516     0.241552
 0.000114    0.259895     3.837123
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  3254

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2            V3
          T       M2            M3
0.57741     3.896553     2.467516     0.241552
 0.000114    0.158567     3.124842
0.71827     3.896553     2.467516     0.241552
 0.000114    0.057225     2.566896
0.85914     3.896553     2.467516     0.241552
 0.000114    0.019256     2.531112
1.00000     3.896553     2.467516     0.241552
 0.000114    0.065290     6.253122

COMB DB-G2-1  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -0.123980    -24.668123    -0.109436
-0.000731    -0.118331    -47.451202
0.57741   -0.123980    -24.668123    -0.109436
-0.000731    -0.072386    -37.684953
0.71827   -0.123980    -24.668123    -0.109436
-0.000731    -0.026433    -28.681224
0.85914   -0.123980    -24.668123    -0.109436
-0.000731    -0.044044    -22.318946
1.00000   -0.123980    -24.668123    -0.109436
-0.000731    -0.145426    -17.226188

COMB DB-G2-2  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     7.334654    22.109729     0.652988
 0.003927    0.706369    52.221317
0.57741     7.334654    22.109729     0.652988
 0.003927    0.432462    43.822141
0.71827     7.334654    22.109729     0.652988
 0.003927    0.158569    40.340302
0.85914     7.334654    22.109729     0.652988
 0.003927    0.074713    57.348232
1.00000     7.334654    22.109729     0.652988
 0.003927    0.247722    79.456204

COMB DB-G2-2  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -2.013628    -92.988295    -0.417338
-0.003624    -0.452551    -98.467487
0.57741   -2.013628    -92.988295    -0.417338
-0.003624    -0.277455    -60.240974
0.71827   -2.013628    -92.988295    -0.417338
-0.003624    -0.102277    -33.094969
0.85914   -2.013628    -92.988295    -0.417338
-0.003624    -0.129684    -19.035524
1.00000   -2.013628    -92.988295    -0.417338
-0.003624    -0.395988    -8.906390

COMB DB-G2-3  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     9.103139    21.849755     0.699153
 0.003936    0.759265    49.151565
0.57741     9.103139    21.849755     0.699153
 0.003936    0.465987    40.811121
0.71827     9.103139    21.849755     0.699153
 0.003936    0.172677    36.985707
0.85914     9.103139    21.849755     0.699153
 0.003936    0.076812    51.690637
1.00000     9.103139    21.849755     0.699153
 0.003936    0.255629    76.585273

COMB DB-G2-3  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -1.941814   -101.047679    -0.430529
-0.004056    -0.466746   -111.973510
0.57741   -1.941814   -101.047679    -0.430529
-0.004056    -0.286084    -70.253149
0.71827   -1.941814   -101.047679    -0.430529
-0.004056    -0.105309    -40.558630
0.85914   -1.941814   -101.047679    -0.430529
-0.004056    -0.133456    -27.193716
1.00000   -1.941814   -101.047679    -0.430529
-0.004056    -0.419916    -16.482259
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  3255

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     8.475352    38.623578     1.135316
 0.003483    1.234353    71.172372
0.57741     8.475352    38.623578     1.135316
 0.003483    0.758117    55.649476
0.71827     8.475352    38.623578     1.135316
 0.003483    0.281914    43.343905
0.85914     8.475352    38.623578     1.135316
 0.003483    0.151062    44.965129
1.00000     8.475352    38.623578     1.135316
 0.003483    0.509670    66.112267

COMB DB-G2-4  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -4.409950   -100.854495    -0.857598
-0.003236    -0.929296   -119.584799
0.57741   -4.409950   -100.854495    -0.857598
-0.003236    -0.569495    -77.794963
0.71827   -4.409950   -100.854495    -0.857598
-0.003236    -0.209599    -44.487699
0.85914   -4.409950   -100.854495    -0.857598
-0.003236    -0.202944    -23.286515
1.00000   -4.409950   -100.854495    -0.857598
-0.003236    -0.674606    -19.054350

COMB DB-G3-1  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     1.059528    43.242462     0.920957
 0.001256    1.002707    61.708811
0.57741     1.059528    43.242462     0.920957
 0.001256    0.616467    43.624945
0.71827     1.059528    43.242462     0.920957
 0.001256    0.230232    25.626495
0.85914     1.059528    43.242462     0.920957
 0.001256    0.145096     8.034296
1.00000     1.059528    43.242462     0.920957
 0.001256    0.492292     2.248259

COMB DB-G3-1  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654     -5.108955    -6.648856    -0.827676
-0.000497    -0.896499    -19.733916
0.57741     -5.108955    -6.648856    -0.827676
-0.000497    -0.549301    -17.081222
0.71827     -5.108955    -6.648856    -0.827676
-0.000497    -0.202104    -14.685679
0.85914     -5.108955    -6.648856    -0.827676
-0.000497    -0.156586    -12.456983
1.00000     -5.108955    -6.648856    -0.827676
-0.000497    -0.542781    -12.580180

COMB DB-G3-2  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     5.250521    59.733024     1.360445
 0.006114    1.480163   101.703683
0.57741     5.250521    59.733024     1.360445
 0.006114    0.909478    77.725674
0.71827     5.250521    59.733024     1.360445
 0.006114    0.339094    59.249550
0.85914     5.250521    59.733024     1.360445
 0.006114    0.210792    65.934272
1.00000     5.250521    59.733024     1.360445
 0.006114    0.707403    83.481826

COMB DB-G3-2  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -7.156204    -90.702551    -1.190264
-0.004223    -1.289796    -81.096570
0.57741   -7.156204    -90.702551    -1.190264
-0.004223    -0.790495    -43.502703
0.71827   -7.156204    -90.702551    -1.190264
-0.004223    -0.291192    -19.308231
0.85914   -7.156204    -90.702551    -1.190264
-0.004223    -0.249620    -10.966230
1.00000   -7.156204    -90.702551    -1.190264
-0.004223    -0.810754    -13.490382
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  3256

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     6.609744    59.569929     1.455560
 0.004494    1.581685   102.551929
0.57741     6.609744    59.569929     1.455560
 0.004494    0.971101    78.491508
0.71827     6.609744    59.569929     1.455560
 0.004494    0.360773    58.732364
0.85914     6.609744    59.569929     1.455560
 0.004494    0.209659    56.905557
1.00000     6.609744    59.569929     1.455560
 0.004494    0.706894    67.908929

COMB DB-G3-3  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -6.731615    -89.282046    -1.189495
-0.003334    -1.289046   -100.249756
0.57741   -6.731615    -89.282046    -1.189495
-0.003334    -0.790068    -63.235961
0.71827   -6.731615    -89.282046    -1.189495
-0.003334    -0.291001    -35.424165
0.85914   -6.731615    -89.282046    -1.189495
-0.003334    -0.210194    -18.518183
1.00000   -6.731615    -89.282046    -1.189495
-0.003334    -0.866296    -12.982536

COMB DB-G3-4  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     8.126102    51.380738     1.334954
 0.004001    1.450551    88.192892
0.57741     8.126102    51.380738     1.334954
 0.004001    0.890565    67.309150
0.71827     8.126102    51.380738     1.334954
 0.004001    0.330774    50.007212
0.85914     8.126102    51.380738     1.334954
 0.004001    0.183516    47.614805
1.00000     8.126102    51.380738     1.334954
 0.004001    0.618708    59.679002

COMB DB-G3-4  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -5.735056    -90.011373    -1.040717
-0.003425    -1.127534   -110.812409
0.57741   -5.735056    -90.011373    -1.040717
-0.003425    -0.690925    -73.718156
0.71827   -5.735056    -90.011373    -1.040717
-0.003425    -0.254234    -46.065547
0.85914   -5.735056    -90.011373    -1.040717
-0.003425    -0.239514    -29.473197
1.00000   -5.735056    -90.011373    -1.040717
-0.003425    -0.794086    -22.437442

COMB DL-G1-1  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     4.486393     5.913960     0.177220
 0.000538    0.197361     8.470593
0.57741     4.486393     5.913960     0.177220
 0.000538    0.123038     6.455102
0.71827     4.486393     5.913960     0.177220
 0.000538    0.048049     4.577283
0.85914     4.486393     5.913960     0.177220
 0.000538    0.024228     3.291650
1.00000     4.486393     5.913960     0.177220
 0.000538    0.092758    11.150616

COMB DL-G1-1  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -0.925101    -32.057556    -0.163004
-0.001082    -0.180042    -47.450824
0.57741   -0.925101    -32.057556    -0.163004
-0.001082    -0.111335    -34.119300
0.71827   -0.925101    -32.057556    -0.163004
-0.001082    -0.042730    -21.599511
0.85914   -0.925101    -32.057556    -0.163004
-0.001082    -0.025145    -11.315710
1.00000   -0.925101    -32.057556    -0.163004
-0.001082    -0.099870     -9.237295
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  3257

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     10.624709     8.406955     0.468045
 0.000810    0.507704    11.095528
0.57741     10.624709     8.406955     0.468045
 0.000810    0.311242     7.733348
0.71827     10.624709     8.406955     0.468045
 0.000810    0.114167     4.820470
0.85914     10.624709     8.406955     0.468045
 0.000810    0.044125     3.250533
1.00000     10.624709     8.406955     0.468045
 0.000810    0.160096    17.062353

COMB DL-G1-2  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -0.883793    -68.928869    -0.276933
-0.001972    -0.303680    -118.866024
0.57741   -0.883793    -68.928869    -0.276933
-0.001972    -0.186728    -90.246452
0.71827   -0.883793    -68.928869    -0.276933
-0.001972    -0.069914    -62.643515
0.85914   -0.883793    -68.928869    -0.276933
-0.001972    -0.080866    -38.072650
1.00000   -0.883793    -68.928869    -0.276933
-0.001972    -0.277951    -26.263292

COMB DL-G1-3  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     11.301136    20.879057     0.869362
 0.000641    0.942260    42.708690
0.57741     11.301136    20.879057     0.869362
 0.000641    0.577492    34.485764
0.71827     11.301136    20.879057     0.869362
 0.000641    0.211818    27.947302
0.85914     11.301136    20.879057     0.869362
 0.000641    0.097504    23.715429
1.00000     11.301136    20.879057     0.869362
 0.000641    0.345333    37.091985

COMB DL-G1-3  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -1.899453   -84.608856    -0.589265
-0.001743    -0.641644   -129.490075
0.57741   -1.899453   -84.608856    -0.589265
-0.001743    -0.393752    -94.599467
0.71827   -1.899453   -84.608856    -0.589265
-0.001743    -0.145344    -61.774960
0.85914   -1.899453   -84.608856    -0.589265
-0.001743    -0.150887    -32.830350
1.00000   -1.899453   -84.608856    -0.589265
-0.001743    -0.516563    -18.652410

COMB DL-G1-4  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     12.255182    35.022696     1.372512
 0.003339    1.487905    66.963714
0.57741     12.255182    35.022696     1.372512
 0.003339    0.912081    53.342999
0.71827     12.255182    35.022696     1.372512
 0.003339    0.336204    44.752954
0.85914     12.255182    35.022696     1.372512
 0.003339    0.191302    51.566970
1.00000     12.255182    35.022696     1.372512
 0.003339    0.649478    81.922184

COMB DL-G1-4  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -4.581664   -127.382438    -1.098278
-0.003200    -1.191035   -156.129582
0.57741   -4.581664   -127.382438    -1.098278
-0.003200    -0.729740   -103.716438
0.71827   -4.581664   -127.382438    -1.098278
-0.003200    -0.268351    -58.503671
0.85914   -4.581664   -127.382438    -1.098278
-0.003200    -0.246599    -27.518625
1.00000   -4.581664   -127.382438    -1.098278
-0.003200    -0.819677    -18.185778
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                  3258

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     6.238294     3.347519     0.390333
8.73E-05    0.417610     4.556477
0.57741     6.238294     3.347519     0.390333
8.73E-05    0.253831     3.205541
0.71827     6.238294     3.347519     0.390333
8.73E-05    0.089946     1.940617
0.85914     6.238294     3.347519     0.390333
8.73E-05    0.033042     2.194100
1.00000     6.238294     3.347519     0.390333
8.73E-05    0.114395     8.020057

COMB DL-G2-1  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -0.166829    -39.250997    -0.192643
-0.000679    -0.208205    -71.502009
0.57741   -0.166829    -39.250997    -0.192643
-0.000679    -0.127150    -55.279315
0.71827   -0.166829    -39.250997    -0.192643
-0.000679    -0.045630    -39.513148
0.85914   -0.166829    -39.250997    -0.192643
-0.000679    -0.072939    -25.600333
1.00000   -0.166829    -39.250997    -0.192643
-0.000679    -0.237456    -15.981273

COMB DL-G2-2  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     9.480499    19.818736     0.974876
 0.003578    1.048777    45.806362
0.57741     9.480499    19.818736     0.974876
 0.003578    0.639670    38.127521
0.71827     9.480499    19.818736     0.974876
 0.003578    0.231855    38.130829
0.85914     9.480499    19.818736     0.974876
 0.003578    0.126260    56.727843
1.00000     9.480499    19.818736     0.974876
 0.003578    0.413999    83.260732

COMB DL-G2-2  ------------------ MIN

REL DIST          P             V2            V3
          T       M2            M3
0.43654   -2.155150   -105.593311    -0.694554
-0.002926    -0.749991    -116.672981
0.57741   -2.155150   -105.593311    -0.694554
-0.002926    -0.458448    -73.532715
0.71827   -2.155150   -105.593311    -0.694554
-0.002926    -0.166952    -39.761715
0.85914   -2.155150   -105.593311    -0.694554
-0.002926    -0.188834    -20.937132
1.00000   -2.155150   -105.593311    -0.694554
-0.002926    -0.593998     -8.562974

COMB DL-G2-3  ------------------ MAX

REL DIST          P             V2            V3
          T       M2            M3
0.43654     13.089337    21.621214     1.051652
```

```
 0.003608     1.134022    46.010510
 0.57741     13.089337    21.621214     1.051652
 0.003608     0.692674    38.156105
 0.71827     13.089337    21.621214     1.051652
 0.003608     0.252015    35.857204
 0.85914     13.089337    21.621214     1.051652
 0.003608     0.129387    51.241297
 1.00000     13.089337    21.621214     1.051652
 0.003608     0.430398    81.383206

COMB DL-G2-3 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -2.203017  -124.181599   -0.724830
-0.003481   -0.784037  -150.829331
 0.57741   -2.203017  -124.181599   -0.724830
-0.003481   -0.479506   -99.777967
 0.71827   -2.203017  -124.181599   -0.724830
-0.003481   -0.175450   -57.954446
 0.85914   -2.203017  -124.181599   -0.724830
-0.003481   -0.198795   -31.399742
 1.00000   -2.203017  -124.181599   -0.724830
-0.003481   -0.636870   -16.243163
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3259

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   11.741059    50.261718     1.664104
 0.003139    1.802865    86.059929
 0.57741   11.741059    50.261718     1.664104
 0.003139    1.104579    66.060581
 0.71827   11.741059    50.261718     1.664104
 0.003139    0.406444    49.884147
 0.85914   11.741059    50.261718     1.664104
 0.003139    0.234945    45.914191
 1.00000   11.741059    50.261718     1.664104
 0.003139    0.796551    68.422987

COMB DL-G2-4 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -6.372503  -117.482628   -1.341992
-0.002736   -1.452858  -149.164324
 0.57741   -6.372503  -117.482628   -1.341992
-0.002736   -0.889433  -100.696157
 0.71827   -6.372503  -117.482628   -1.341992
-0.002736   -0.325862   -58.378135
 0.85914   -6.372503  -117.482628   -1.341992
-0.002736   -0.296486   -26.850146
 1.00000   -6.372503  -117.482628   -1.341992
-0.002736   -0.993125   -20.794543

COMB DL-G3-1 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654    1.341433    70.913125     1.306915
 0.001357    1.421823    95.208298
 0.57741    1.341433    70.913125     1.306915
 0.001357    0.873636    65.665027
 0.71827    1.341433    70.913125     1.306915
 0.001357    0.325148    36.293178
 0.85914    1.341433    70.913125     1.306915
 0.001357    0.211128     8.297300
 1.00000    1.341433    70.913125     1.306915
 0.001357    0.719997     3.292049

COMB DL-G3-1 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -8.578898   -10.488283   -1.212266
-0.000473   -1.313055   -21.910324
 0.57741   -8.578898   -10.488283   -1.212266
-0.000473   -0.804143   -17.685098
 0.71827   -8.578898   -10.488283   -1.212266
-0.000473   -0.295248   -13.619279
 0.85914   -8.578898   -10.488283   -1.212266
-0.000473   -0.222919   -10.743233
 1.00000   -8.578898   -10.488283   -1.212266
-0.000473   -0.771137   -27.801921

COMB DL-G3-2 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654    5.769742    86.888176     1.938197
 0.006528    2.392121    135.191468
 0.57741    5.769742    86.888176     1.938197
 0.006528    1.289924    100.213896
 0.71827    5.769742    86.888176     1.938197
 0.006528    0.478237     72.472123
 0.85914    5.769742    86.888176     1.938197
 0.006528    0.320471    70.385647
 1.00000    5.769742    86.888176     1.938197
 0.006528    1.064287    93.165248

COMB DL-G3-2 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -11.056784   -96.991940   -1.787133
-0.003881   -1.932877   -84.798004
 0.57741   -11.056784   -96.991940   -1.787133
-0.003881   -1.182965   -45.440572
 0.71827   -11.056784   -96.991940   -1.787133
-0.003881   -0.433873   -17.690655
 0.85914   -11.056784   -96.991940   -1.787133
-0.003881   -0.353596    -9.474018
 1.00000   -11.056784   -96.991940   -1.787133
-0.003881   -1.159344   -25.846447
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3260

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654    8.331822    81.869212     2.097568
 0.004970    2.273235   127.127897
 0.57741    8.331822    81.869212     2.097568
 0.004970    1.393319    94.034323
 0.71827    8.331822    81.869212     2.097568
 0.004970    0.514289    66.942448
 0.85914    8.331822    81.869212     2.097568
 0.004970    0.321159    60.793394
 1.00000    8.331822    81.869212     2.097568
 0.004970    1.078531    80.560722

COMB DL-G3-3 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -10.153758  -104.817550   -1.813616
-0.003163   -1.962225   -110.965443
 0.57741   -10.153758  -104.817550   -1.813616
-0.003163   -1.201022    -68.039838
 0.71827   -10.153758  -104.817550   -1.813616
-0.003163   -0.439965    -34.363679
 0.85914   -10.153758  -104.817550   -1.813616
-0.003163   -0.377630    -16.646947
 1.00000   -10.153758  -104.817550   -1.813616
-0.003163   -1.253540   -24.010076

COMB DL-G3-4 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   11.705970    71.128910     1.945089
 0.004381    2.105941   109.942242
 0.57741   11.705970    71.128910     1.945089
 0.004381    1.289986    81.160896
 0.71827   11.705970    71.128910     1.945089
 0.004381    0.474599    57.397118
 0.85914   11.705970    71.128910     1.945089
 0.004381    0.281851    50.904044
 1.00000   11.705970    71.128910     1.945089
 0.004381    0.948024    71.306191

COMB DL-G3-4 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -8.661292  -115.125332   -1.594910
-0.003319   -1.725810  -143.241993
 0.57741   -8.661292  -115.125332   -1.594910
-0.003319   -1.056258   -95.673719
 0.71827   -8.661292  -115.125332   -1.594910
-0.003319   -0.386693   -56.962078
 0.85914   -8.661292  -115.125332   -1.594910
-0.003319   -0.351198   -31.760679
 1.00000   -8.661292  -115.125332   -1.594910
-0.003319   -1.163840   -31.297178

COMB      DB ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654    9.103139    59.733024     1.455560
 0.006114    1.581685   102.551929
 0.57741    9.103139    59.733024     1.455560
 0.006114    0.971101    78.491508
 0.71827    9.103139    59.733024     1.455560
 0.006114    0.360773    59.249550
 0.85914    9.103139    59.733024     1.455560
 0.006114    0.210792    65.934272
 1.00000    9.103139    59.733024     1.455560
 0.006114    0.707403    83.481826

COMB      DB ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -7.156204  -110.871291   -1.190264
-0.004223   -1.289796   -124.193217
 0.57741   -7.156204  -110.871291   -1.190264
-0.004223   -0.790495    -78.254624
 0.71827   -7.156204  -110.871291   -1.190264
-0.004223   -0.291192    -46.065547
 0.85914   -7.156204  -110.871291   -1.190264
-0.004223   -0.262234    -32.038770
 1.00000   -7.156204  -110.871291   -1.190264
-0.004223   -0.866296    -26.253467
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3261

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   13.089337    86.888176     2.097568
 0.006528    2.273235   135.191468
 0.57741   13.089337    86.888176     2.097568
 0.006528    1.393319   100.213896
 0.71827   13.089337    86.888176     2.097568
 0.006528    0.514289    72.472123
 0.85914   13.089337    86.888176     2.097568
 0.006528    0.321159    70.385647
 1.00000   13.089337    86.888176     2.097568
 0.006528    1.078531    93.165248

COMB      DL ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -11.056784   -127.382438   -1.813616
-0.003881   -1.962225   -156.129582
 0.57741   -11.056784   -127.382438   -1.813616
-0.003881   -1.201022   -103.716438
 0.71827   -11.056784   -127.382438   -1.813616
-0.003881   -0.439965    -62.643515
 0.85914   -11.056784   -127.382438   -1.813616
-0.003881   -0.377630    -38.072650
 1.00000   -11.056784   -127.382438   -1.813616
-0.003881   -1.253540    -31.297178

COMB      CAR ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   13.089337    86.888176     2.097568
 0.006528    2.273235   135.191468
 0.57741   13.089337    86.888176     2.097568
 0.006528    1.393319   100.213896
 0.71827   13.089337    86.888176     2.097568
 0.006528    0.514289    72.472123
 0.85914   13.089337    86.888176     2.097568
 0.006528    0.321159    70.385647
 1.00000   13.089337    86.888176     2.097568
 0.006528    1.078531    93.165248

COMB      CAR ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -11.056784   -127.382438   -1.813616
-0.004223   -1.962225   -156.129582
 0.57741   -11.056784   -127.382438   -1.813616
-0.004223   -1.201022   -103.716438
 0.71827   -11.056784   -127.382438   -1.813616
-0.004223   -0.439965    -62.643515
 0.85914   -11.056784   -127.382438   -1.813616
-0.004223   -0.377630    -38.072650
 1.00000   -11.056784   -127.382438   -1.813616
-0.004223   -1.253540    -31.297178

COMB   DESIGN ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   13.089337    86.888176     2.097568
 0.006528    2.273235   135.191468
 0.57741   13.089337    86.888176     2.097568
 0.006528    1.393319   100.213896
 0.71827   13.089337    86.888176     2.097568
 0.006528    0.514289    72.472123
 0.85914   13.089337    86.888176     2.097568
 0.006528    0.321159    70.385647
 1.00000   13.089337    86.888176     2.097568
 0.006528    1.078531    93.165248

COMB   DESIGN ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.43654   -11.056784   -127.382438   -1.813616
-0.004223   -1.962225   -156.129582
 0.57741   -11.056784   -127.382438   -1.813616
-0.004223   -1.201022   -103.716438
 0.71827   -11.056784   -127.382438   -1.813616
-0.004223   -0.439965    -62.643515
 0.85914   -11.056784   -127.382438   -1.813616
-0.004223   -0.377630    -38.072650
 1.00000   -11.056784   -127.382438   -1.813616
-0.004223   -1.253540    -31.297178
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3262

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      307 ================== LENGTH
=     2.976943

COMB DB-G1-1 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    2.624864    2.988382     0.182443
 0.000359    0.116840    7.819476
 0.14083     2.624864    2.988382     0.182443
 0.000359    0.040347   16.142425
 0.28166     2.624864    2.988382     0.182443
 0.000359    0.027191   24.542109
 0.42248     2.624864    2.988382     0.182443
 0.000359    0.085699   32.970309
 0.56331     2.624864    2.988382     0.182443
 0.000359    0.144343   41.412694

COMB DB-G1-1 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -0.828805   -20.161226   -0.139844
-0.000682   -0.080149    -8.673573
 0.14083   -0.828805   -20.161226   -0.139844
-0.000682   -0.031527    -7.787549
 0.28166   -0.828805   -20.161226   -0.139844
-0.000682   -0.036062    -7.225484
 0.42248   -0.828805   -20.161226   -0.139844
-0.000682   -0.112605    -6.914295
 0.56331   -0.828805   -20.161226   -0.139844
-0.000682   -0.189098    -6.813884

COMB DB-G1-2 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    6.176012    6.071335     0.324399
 0.000628    0.199844   13.289662
 0.14083    6.176012    6.071335     0.324399
 0.000628    0.064096   27.860346
 0.28166    6.176012    6.071335     0.324399
 0.000628    0.044311   43.530197
 0.42248    6.176012    6.071335     0.324399
 0.000628    0.141842   60.028754
 0.56331    6.176012    6.071335     0.324399
 0.000628    0.240341   76.882272

COMB DB-G1-2 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -0.628207   -40.662426   -0.236322
-0.001376   -0.156329   -26.252212
 0.14083   -0.628207   -40.662426   -0.236322
-0.001376   -0.057314   -21.154128
 0.28166   -0.628207   -40.662426   -0.236322
-0.001376   -0.072532   -16.922370
 0.42248   -0.628207   -40.662426   -0.236322
-0.001376   -0.208600   -13.819408
 0.56331   -0.628207   -40.662426   -0.236322
-0.001376   -0.344634   -12.391608

COMB DB-G1-3 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    6.902042    19.583736     0.592425
 0.000447    0.357814    26.675493
 0.14083    6.902042    19.583736     0.592425
 0.000447    0.109475    41.141233
 0.28166    6.902042    19.583736     0.592425
 0.000447    0.089538    57.608764
 0.42248    6.902042    19.583736     0.592425
 0.000447    0.263950    80.011493
 0.56331    6.902042    19.583736     0.592425
 0.000447    0.438903   102.772562

COMB DB-G1-3 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -1.637803   -54.627143   -0.417311
-0.001616   -0.260962   -17.514087
 0.14083   -1.637803   -54.627143   -0.417311
-0.001616   -0.086002   -14.980491
 0.28166   -1.637803   -54.627143   -0.417311
-0.001616   -0.138796   -16.574388
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3263

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P           V2          V3
       T         M2          M3
 0.42248   -1.637803   -54.627143   -0.417311
-0.001616   -0.387237   -20.671501
 0.56331   -1.637803   -54.627143   -0.417311
-0.001616   -0.635634   -25.638362

COMB DB-G1-4 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    7.128630    57.804870     0.990646
 0.002860    0.606550    78.353713
 0.14083    7.128630    57.804870     0.990646
 0.002860    0.194298    87.593564
 0.28166    7.128630    57.804870     0.990646
 0.002860    0.173156    98.473670
 0.42248    7.128630    57.804870     0.990646
 0.002860    0.490513   125.710514
 0.56331    7.128630    57.804870     0.990646
 0.002860    0.808326   157.460951

COMB DB-G1-4 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -5.153170   -76.616713   -0.758075
-0.004236   -0.942949   -19.013455
 0.14083   -5.153170   -76.616713   -0.758075
-0.004236   -0.145144   -19.166872
 0.28166   -5.153170   -76.616713   -0.758075
-0.004236   -0.233522   -24.769518
 0.42248   -5.153170   -76.616713   -0.758075
-0.004236   -0.648827   -35.000358
 0.56331   -5.153170   -76.616713   -0.758075
-0.004236   -1.064163   -52.505347

COMB DB-G2-1 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    3.886230    2.435684     0.206351
 8.75E-05    0.119815    6.260450
 0.14083    3.886230    2.435684     0.206351
 8.75E-05    0.033424   12.500685
 0.28166    3.886230    2.435684     0.206351
 8.75E-05    0.027761   21.235811
 0.42248    3.886230    2.435684     0.206351
 8.75E-05    0.080949   31.151761
 0.56331    3.886230    2.435684     0.206351
 8.75E-05    0.134976   41.220409

COMB DB-G2-1 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -0.135691   -24.474834   -0.128854
-0.000626   -0.081114   -17.224264
 0.14083   -0.135691   -24.474834   -0.128854
-0.000626   -0.027117   -12.969461
 0.28166   -0.135691   -24.474834   -0.128854
-0.000626   -0.053203   -10.400680
 0.42248   -0.135691   -24.474834   -0.128854
-0.000626   -0.139713    -8.734032
 0.56331   -0.135691   -24.474834   -0.128854
-0.000626   -0.226233    -7.685759

COMB DB-G2-2 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    4.700191   61.766687     0.628360
 0.003124    0.384720   79.639646
 0.14083    4.700191   61.766687     0.628360
 0.003124    0.125554   67.723249
 0.28166    4.700191   61.766687     0.628360
 0.003124    0.104487   57.977362
 0.42248    4.700191   61.766687     0.628360
 0.003124    0.292293   70.441850
 0.56331    4.700191   61.766687     0.628360
 0.003124    0.480769   89.044686

COMB DB-G2-2 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -4.442864   -45.588686   -0.449567
-0.004802   -0.273158    -8.901102
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3264

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P           V2          V3
       T         M2          M3
 0.14083   -4.442864   -45.588686   -0.449567
-0.004802   -0.084683    -7.708458
 0.28166   -4.442864   -45.588686   -0.449567
-0.004802   -0.155119   -10.886401
 0.42248   -4.442864   -45.588686   -0.449567
-0.004802   -0.418535   -17.759049
 0.56331   -4.442864   -45.588686   -0.449567
-0.004802   -0.681976   -39.013737

COMB DB-G2-3 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    6.729475    57.696057     0.703736
 0.003085    0.432802    76.757381
 0.14083    6.729475    57.696057     0.703736
 0.003085    0.141554    73.076365
 0.28166    6.729475    57.696057     0.703736
 0.003085    0.111797    71.363692
 0.42248    6.729475    57.696057     0.703736
 0.003085    0.323524    89.826239
 0.56331    6.729475    57.696057     0.703736
 0.003085    0.535700   113.758258

COMB DB-G2-3 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -4.142328   -58.199840   -0.506100
-0.004872   -0.313007   -16.477645
 0.14083   -4.142328   -58.199840   -0.506100
-0.004872   -0.100822   -14.389848
 0.28166   -4.142328   -58.199840   -0.506100
-0.004872   -0.168937   -16.222509
 0.42248   -4.142328   -58.199840   -0.506100
-0.004872   -0.464010   -21.225460
 0.56331   -4.142328   -58.199840   -0.506100
-0.004872   -0.759048   -39.405291

COMB DB-G2-4 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    7.002059    62.086813     1.188317
 0.002646    0.720860    66.224372
 0.14083    7.002059    62.086813     1.188317
 0.002646    0.225156    76.459360
 0.28166    7.002059    62.086813     1.188317
 0.002646    0.213860    88.799379
 0.42248    7.002059    62.086813     1.188317
 0.002646    0.601211   115.440174
 0.56331    7.002059    62.086813     1.188317
 0.002646    0.988931   145.772757

COMB DB-G2-4 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -5.961224   -73.136631   -0.924825
-0.003668   -0.561968   -19.040291
 0.14083   -5.961224   -73.136631   -0.924825
-0.003668   -0.174232   -25.454133
 0.28166   -5.961224   -73.136631   -0.924825
-0.003668   -0.283207   -35.448830
 0.42248   -5.961224   -73.136631   -0.924825
-0.003668   -0.781382   -48.065196
 0.56331   -5.961224   -73.136631   -0.924825
-0.003668   -1.279572   -69.555506

COMB DB-G3-1 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    1.169146    43.330202     0.999968
 0.001149    0.601341     2.244701
 0.14083    1.169146    43.330202     0.999968
 0.001149    0.182119     3.208920
 0.28166    1.169146    43.330202     0.999968
 0.001149    0.200446     4.426430
 0.42248    1.169146    43.330202     0.999968
 0.001149    0.551394     5.724089
 0.56331    1.169146    43.330202     0.999968
 0.001149    0.902343     7.139043
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3265

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -5.287938    -6.838248   -0.837117
-0.000420   -0.501454   -12.564683
 0.14083   -5.287938    -6.838248   -0.837117
-0.000420   -0.150504   -29.968125
 0.28166   -5.287938    -6.838248   -0.837117
-0.000420   -0.237122    -47.680659
 0.42248   -5.287938    -6.838248   -0.837117
-0.000420   -0.656345    -65.650796
 0.56331   -5.287938    -6.838248   -0.837117
-0.000420   -1.075567    -83.688465

COMB DB-G3-2 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    2.192647   108.220456     1.462444
 0.004932    0.894408    83.688570
 0.14083    2.192647   108.220456     1.462444
 0.004932    0.286374    63.235544
 0.28166    2.192647   108.220456     1.462444
 0.004932    0.289278    48.574471
 0.42248    2.192647   108.220456     1.462444
 0.004932    0.795743    53.679194
 0.56331    2.192647   108.220456     1.462444
 0.004932    1.302238    67.258002

COMB DB-G3-2 ------------------ MIN

REL DIST         P           V2          V3
       T         M2          M3
 0.00000   -10.330147   -33.552883   -1.208137
-0.005269   -0.723742    -13.468705
 0.14083   -10.330147   -33.552883   -1.208137
-0.005269   -0.217246    -32.315652
 0.28166   -10.330147   -33.552883   -1.208137
-0.005269   -0.347641    -52.120834
 0.42248   -10.330147   -33.552883   -1.208137
-0.005269   -0.960728    -75.721853
 0.56331   -10.330147   -33.552883   -1.208137
-0.005269   -1.573838   -116.414373

COMB DB-G3-3 ------------------ MAX

REL DIST         P           V2          V3
       T         M2          M3
 0.00000    4.532958    92.738482     1.532116
```

```
 0.003655     0.928347    68.057064
 0.14083      4.532958    92.738482     1.532116
 0.003655     0.289499    60.371665
 0.28166      4.532958    92.738482     1.532116
 0.003655     0.291263    59.678467
 0.42248      4.532958    92.738482     1.532116
 0.003655     0.801678    72.291718
 0.56331      4.532958    92.738482     1.532116
 0.003655     1.312055    92.863476

COMB DB-G3-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -8.941098   -50.091816   -1.217400
-0.004292   -0.729455   -12.962281
 0.14083   -8.941098   -50.091816   -1.217400
-0.004292   -0.219078   -30.232074
 0.28166   -8.941098   -50.091816   -1.217400
-0.004292   -0.367145   -51.602608
 0.42248   -8.941098   -50.091816   -1.217400
-0.004292   -1.009451   -75.731956
 0.56331   -8.941098   -50.091816   -1.217400
-0.004292   -1.651770  -111.515351

COMB DB-G3-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    6.409416    78.805062     1.388558
 0.003225   0.840438    59.806753
 0.14083    6.409416    78.805062     1.388558
 0.003225   0.261287    59.582345
 0.28166    6.409416    78.805062     1.388558
 0.003225   0.255755    63.092475
 0.42248    6.409416    78.805062     1.388558
 0.003225   0.714612    82.538189
 0.56331    6.409416    78.805062     1.388558
 0.003225   1.173928   106.244725
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3266

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -7.567038   -57.543956   -1.095602
-0.004018   -0.663352   -22.419762
 0.14083   -7.567038   -57.543956   -1.095602
-0.004018   -0.204047   -34.296093
 0.28166   -7.567038   -57.543956   -1.095602
-0.004018   -0.332788   -49.739590
 0.42248   -7.567038   -57.543956   -1.095602
-0.004018   -0.914928   -67.942031
 0.56331   -7.567038   -57.543956   -1.095602
-0.004018   -1.497067   -96.486136

COMB DL-G1-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    4.481556    5.903884     0.253311
 0.000324   0.161143   11.161100
 0.14083    4.481556    5.903884     0.253311
 0.000324   0.054770   23.341628
 0.28166    4.481556    5.903884     0.253311
 0.000324   0.043190   36.124082
 0.42248    4.481556    5.903884     0.253311
 0.000324   0.130134   49.149819
 0.56331    4.481556    5.903884     0.253311
 0.000324   0.216427   62.312516

COMB DL-G1-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.927108   -32.082925   -0.206197
-0.000702   -0.128145    -9.241414
 0.14083   -0.927108   -32.082925   -0.206197
-0.000702   -0.042187    -9.733866
 0.28166   -0.927108   -32.082925   -0.206197
-0.000702   -0.050751   -10.914359
 0.42248   -0.927108   -32.082925   -0.206197
-0.000702   -0.157709   -12.411328
 0.56331   -0.927108   -32.082925   -0.206197
-0.000702   -0.263906   -14.143802

COMB DL-G1-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   10.538398    9.317166     0.475483
 0.000516   0.286630    9.317547
 0.14083   10.538398    9.317166     0.475483
 0.000516   0.089250   40.150735
 0.28166   10.538398    9.317166     0.475483
 0.000516   0.075626   65.320916
 0.42248   10.538398    9.317166     0.475483
 0.000516   0.232094   91.517215
 0.56331   10.538398    9.317166     0.475483
 0.000516   0.387759  118.650115

COMB DL-G1-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.952948   -67.555238   -0.371114
-0.001343   -0.232637   -26.266438
 0.14083   -0.952948   -67.555238   -0.371114
-0.001343   -0.078083   -22.405936
 0.28166   -0.952948   -67.555238   -0.371114
-0.001343   -0.109572   -20.940693
 0.42248   -0.952948   -67.555238   -0.371114
-0.001343   -0.208677   -21.389497
 0.56331   -0.952948   -67.555238   -0.371114
-0.001343   -0.508987   -23.086568

COMB DL-G1-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   11.262168   20.516721     0.866451
 0.000401   0.519064   37.124880
 0.14083   11.262168   20.516721     0.866451
 0.000401   0.154687   64.325792
 0.28166   11.262168   20.516721     0.866451
 0.000401   0.152853   94.641745
 0.42248   11.262168   20.516721     0.866451
 0.000401   0.442479  127.993160
 0.56331   11.262168   20.516721     0.866451
 0.000401   0.731369  162.313845
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3267

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -1.889106   -84.300394   -0.688000
-0.001550   -0.419854   -18.656081
 0.14083   -1.889106   -84.300394   -0.688000
-0.001550   -0.131564   -16.863664
 0.28166   -1.889106   -84.300394   -0.688000
-0.001550   -0.206618   -20.824549
 0.42248   -1.889106   -84.300394   -0.688000
-0.001550   -0.570691   -26.610596
 0.56331   -1.889106   -84.300394   -0.688000
-0.001550   -0.934053   -33.075293

COMB DL-G1-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   10.761056   58.640946     1.416468
 0.002127   0.858736   81.968932
 0.14083   10.761056   58.640946     1.416468
 0.002127   0.266199  103.780204
 0.28166   10.761056   58.640946     1.416468
 0.002127   0.273567  128.678765
 0.42248   10.761056   58.640946     1.416468
 0.002127   0.770784  163.760871
 0.56331   10.761056   58.640946     1.416468
 0.002127   1.267517  204.373993

COMB DL-G1-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -6.162358  -100.456259   -1.183968
-0.003604   -0.715516   -18.178590
 0.14083   -6.162358  -100.456259   -1.183968
-0.003604   -0.220021   -22.410533
 0.28166   -6.162358  -100.456259   -1.183968
-0.003604   -0.335825   -31.857287
 0.42248   -6.162358  -100.456259   -1.183968
-0.003604   -0.929881   -44.415872
 0.56331   -6.162358  -100.456259   -1.183968
-0.003604   -1.523667   -66.564484

COMB DL-G2-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    6.216654    3.271658     0.311679
 6.75E-05   0.179193    8.035654
 0.14083    6.216654    3.271658     0.311679
 6.75E-05   0.048459    20.029102
 0.28166    6.216654    3.271658     0.311679
 6.75E-05   0.050589    34.297722
 0.42248    6.216654    3.271658     0.311679
 6.75E-05   0.148765    49.286097
 0.56331    6.216654    3.271658     0.311679
 6.75E-05   0.246430    64.798151

COMB DL-G2-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.181136   -38.857217   -0.232650
-0.000606   -0.142773   -15.981369
 0.14083   -0.181136   -38.857217   -0.232650
-0.000606   -0.046209   -11.886679
 0.28166   -0.181136   -38.857217   -0.232650
-0.000606   -0.082017    -9.710430
 0.42248   -0.181136   -38.857217   -0.232650
-0.000606   -0.212740    -9.117766
 0.56331   -0.181136   -38.857217   -0.232650
-0.000606   -0.343283    -9.168813

COMB DL-G2-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    7.138200   55.818236     0.913288
 0.002384   0.552325   83.316737
 0.14083    7.138200   55.818236     0.913288
 0.002384   0.171844   83.593381
 0.28166    7.138200   55.818236     0.913288
 0.002384   0.172436   86.386702
 0.42248    7.138200   55.818236     0.913288
 0.002384   0.483039  103.760120
 0.56331    7.138200   55.818236     0.913288
 0.002384   0.793882  128.994350
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3268

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -4.488430   -63.894267   -0.740852
-0.004280   -0.447036    -8.557649
 0.14083   -4.488430   -63.894267   -0.740852
-0.004280   -0.137600    -7.258590
 0.28166   -4.488430   -63.894267   -0.740852
-0.004280   -0.225114   -10.744351
 0.42248   -4.488430   -63.894267   -0.740852
-0.004280   -0.607153   -17.870185
 0.56331   -4.488430   -63.894267   -0.740852
-0.004280   -0.989869   -39.410706

COMB DL-G2-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   10.958642   54.201141     1.015071
 0.002389   0.616048   81.443401
 0.14083   10.958642   54.201141     1.015071
 0.002389   0.192120   92.523772
 0.28166   10.958642   54.201141     1.015071
 0.002389   0.184285  106.292399
 0.42248   10.958642   54.201141     1.015071
 0.002389   0.525714  133.452278
 0.56331   10.958642   54.201141     1.015071
 0.002389   0.867571  167.730199

COMB DL-G2-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -4.315865   -86.372536   -0.814136
-0.004411   -0.495601   -16.242007
 0.14083   -4.315865   -86.372536   -0.814136
-0.004411   -0.155417   -15.060097
 0.28166   -4.315865   -86.372536   -0.814136
-0.004411   -0.245138   -18.424486
 0.42248   -4.315865   -86.372536   -0.814136
-0.004411   -0.570502   -25.080266
 0.56331   -4.315865   -86.372536   -0.814136
-0.004411   -1.095850   -44.905642

COMB DL-G2-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   10.525625   69.898300     1.692704
 0.002076   1.019034   68.460257
 0.14083   10.525625   69.898300     1.692704
 0.002076   0.310048   90.869064
 0.28166   10.525625   69.898300     1.692704
 0.002076   0.332452  115.923616
 0.42248   10.525625   69.898300     1.692704
 0.002076   0.931273  149.835896
 0.56331   10.525625   69.898300     1.692704
 0.002076   1.530248  188.252097

COMB DL-G2-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -7.725629   -95.123711   -1.426918
-0.003151   -0.860176   -20.775586
 0.14083   -7.725629   -95.123711   -1.426918
-0.003151   -0.262272   -32.808595
 0.28166   -7.725629   -95.123711   -1.426918
-0.003151   -0.405908   -49.247113
 0.42248   -7.725629   -95.123711   -1.426918
-0.003151   -1.115780   -68.106246
 0.56331   -7.725629   -95.123711   -1.426918
-0.003151   -1.825321   -95.070249

COMB DL-G3-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.427644   71.155597     1.398512
 0.001224   0.839432    3.284872
 0.14083    1.427644   71.155597     1.398512
 0.001224   0.252865    5.549362
 0.28166    1.427644   71.155597     1.398512
 0.001224   0.294073    7.941278
 0.42248    1.427644   71.155597     1.398512
 0.001224   0.811172   10.739574
 0.56331    1.427644   71.155597     1.398512
 0.001224   1.328532   14.768649
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3269

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -8.702123   -10.738092   -1.232829
-0.000380   -0.737926   -27.772538
 0.14083   -8.702123   -10.738092   -1.232829
-0.000380   -0.220318   -56.385205
 0.28166   -8.702123   -10.738092   -1.232829
-0.000380   -0.332953   -85.125685
 0.42248   -8.702123   -10.738092   -1.232829
-0.000380   -0.919506  -114.468680
 0.56331   -8.702123   -10.738092   -1.232829
-0.000380   -1.505805   -144.120815

COMB DL-G3-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    2.595825  138.524218     2.061287
 0.004566   1.256386   93.206238
 0.14083    2.595825  138.524218     2.061287
 0.004566   0.396099   76.385163
 0.28166    2.595825  138.524218     2.061287
 0.004566   0.431526   62.982274
 0.42248    2.595825  138.524218     2.061287
 0.004566   1.188438   66.859683
 0.56331    2.595825  138.524218     2.061287
 0.004566   1.946199   81.558921

COMB DL-G3-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -14.514092   -38.710886   -1.806660
-0.005334   -1.082305   -25.810048
 0.14083   -14.514092   -38.710886   -1.806660
-0.005334   -0.326149   -55.922274
 0.28166   -14.514092   -38.710886   -1.806660
-0.005334   -0.488294   -87.527885
 0.42248   -14.514092   -38.710886   -1.806660
-0.005334   -1.351494  -124.455580
 0.56331   -14.514092   -38.710886   -1.806660
-0.005334   -2.215331  -181.065150

COMB DL-G3-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    6.048009   119.041160     2.164655
 0.003525   1.307265   80.603620
 0.14083    6.048009   119.041160     2.164655
 0.003525   0.401875   80.464030
 0.28166    6.048009   119.041160     2.164655
 0.003525   0.442309   83.580442
 0.42248    6.048009   119.041160     2.164655
 0.003525   1.221999  101.176345
 0.56331    6.048009   119.041160     2.164655
 0.003525   2.002377  126.299130

COMB DL-G3-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -12.672918   -62.695166   -1.859668
-0.004414   -1.113975   -23.976454
 0.14083   -12.672918   -62.695166   -1.859668
-0.004414   -0.334754   -51.741506
 0.28166   -12.672918   -62.695166   -1.859668
-0.004414   -0.519416   -83.009424
 0.42248   -12.672918   -62.695166   -1.859668
-0.004414   -1.426459  -117.395893
 0.56331   -12.672918   -62.695166   -1.859668
-0.004414   -2.333734  -166.210405

COMB DL-G3-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    9.795480   101.961549     1.971107
 0.003096   1.188041   71.350871
 0.14083    9.795480   101.961549     1.971107
 0.003096   0.363317   60.671212
 0.28166    9.795480   101.961549     1.971107
 0.003096   0.392246   93.592347
 0.42248    9.795480   101.961549     1.971107
 0.003096   1.094278  118.854230
 0.56331    9.795480   101.961549     1.971107
 0.003096   1.796971  150.713565
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3270

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -10.752691   -79.971824   -1.674045
-0.004138   -1.008136   -31.269465
 0.14083   -10.752691   -79.971824   -1.674045
-0.004138   -0.306686   -52.263513
 0.28166   -10.752691   -79.971824   -1.674045
-0.004138   -0.474293   -77.308379
 0.42248   -10.752691   -79.971824   -1.674045
-0.004138   -1.300465  -103.577308
 0.56331   -10.752691   -79.971824   -1.674045
-0.004138   -2.126560  -145.823834

COMB       DB ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    7.128630   108.220456     1.532116
 0.004932   0.928347   83.688570
 0.14083    7.128630   108.220456     1.532116
 0.004932   0.289499   87.593564
 0.28166    7.128630   108.220456     1.532116
 0.004932   0.291263   98.447703
 0.42248    7.128630   108.220456     1.532116
 0.004932   0.801678  125.710514
 0.56331    7.128630   108.220456     1.532116
 0.004932   1.312055  157.460951

COMB       DB ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -10.330147   -76.616713   -1.217400
-0.005269   -0.729455   -26.252212
 0.14083   -10.330147   -76.616713   -1.217400
-0.005269   -0.219078   -34.296093
 0.28166   -10.330147   -76.616713   -1.217400
-0.005269   -0.367145   -52.120834
 0.42248   -10.330147   -76.616713   -1.217400
-0.005269   -1.009451   -75.731956
 0.56331   -10.330147   -76.616713   -1.217400
-0.005269   -1.651770  -116.414373

COMB       DL ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   11.262168   138.524218     2.164655
 0.004566   1.307265   93.206238
 0.14083   11.262168   138.524218     2.164655
 0.004566   0.401875   103.780204
 0.28166   11.262168   138.524218     2.164655
 0.004566   0.442309   128.678765
 0.42248   11.262168   138.524218     2.164655
 0.004566   1.221999   163.760871
 0.56331   11.262168   138.524218     2.164655
 0.004566   2.002377   204.373993

COMB       DL ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -14.514092  -100.456259   -1.859668
-0.005334   -1.113975   -31.269465
 0.14083   -14.514092  -100.456259   -1.859668
-0.005334   -0.334754   -56.385205
 0.28166   -14.514092  -100.456259   -1.859668
-0.005334   -0.519416   -87.527885
 0.42248   -14.514092  -100.456259   -1.859668
-0.005334   -1.426459  -124.455580
 0.56331   -14.514092  -100.456259   -1.859668
-0.005334   -2.333734  -181.065150

COMB       CAR ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   11.262168   138.524218     2.164655
 0.004932   1.307265   93.206238
 0.14083   11.262168   138.524218     2.164655
 0.004932   0.401875   103.780204
 0.28166   11.262168   138.524218     2.164655
 0.004932   0.442309   128.678765
 0.42248   11.262168   138.524218     2.164655
 0.004932   1.221999   163.760871
 0.56331   11.262168   138.524218     2.164655
 0.004932   2.002377   204.373993
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3271

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       CAR ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -14.514092  -100.456259   -1.859668
-0.005334   -1.113975   -31.269465
 0.14083   -14.514092  -100.456259   -1.859668
-0.005334   -0.334754   -56.385205
 0.28166   -14.514092  -100.456259   -1.859668
-0.005334   -0.519416   -87.527885
 0.42248   -14.514092  -100.456259   -1.859668
-0.005334   -1.426459  -124.455580
 0.56331   -14.514092  -100.456259   -1.859668
-0.005334   -2.333734  -181.065150

COMB       DESIGN ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   11.262168   138.524218     2.164655
 0.004932   1.307265   93.206238
 0.14083   11.262168   138.524218     2.164655
 0.004932   0.401875   103.780204
 0.28166   11.262168   138.524218     2.164655
 0.004932   0.442309   128.678765
 0.42248   11.262168   138.524218     2.164655
 0.004932   1.221999   163.760871
 0.56331   11.262168   138.524218     2.164655
 0.004932   2.002377   204.373993

COMB       DESIGN ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -14.514092  -100.456259   -1.859668
-0.005334   -1.113975   -31.269465
 0.14083   -14.514092  -100.456259   -1.859668
-0.005334   -0.334754   -56.385205
 0.28166   -14.514092  -100.456259   -1.859668
-0.005334   -0.519416   -87.527885
 0.42248   -14.514092  -100.456259   -1.859668
-0.005334   -1.426459  -124.455580
 0.56331   -14.514092  -100.456259   -1.859668
-0.005334   -2.333734  -181.065150

ELEM      308 ================== LENGTH
=     2.977599

COMB DB-G1-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.43659    2.152609    3.042682     0.088551
 0.000795   0.099162    4.218267
 0.57745    2.152609    3.042682     0.088551
 0.000795   0.062030    2.943096
 0.71830    2.152609    3.042682     0.088551
 0.000795   0.024823    1.670745
 0.85915    2.152609    3.042682     0.088551
 0.000795   0.012824    1.273607
 1.00000    2.152609    3.042682     0.088551
 0.000795   0.051135    3.729807

COMB DB-G1-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.43659   -1.382917   -18.262955   -0.091251
-0.000799   -0.101948   -27.828688
 0.57745   -1.382917   -18.262955   -0.091251
-0.000799   -0.063678   -20.241243
 0.71830   -1.382917   -18.262955   -0.091251
-0.000799   -0.025348   -12.686779
 0.85915   -1.382917   -18.262955   -0.091251
-0.000799   -0.015024    -5.420547
 1.00000   -1.382917   -18.262955   -0.091251
-0.000799   -0.049367    -1.378056

COMB DB-G1-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.43659    7.557374    4.658523     0.182946
 0.001428   0.199891    6.354583
 0.57745    7.557374    4.658523     0.182946
 0.001428   0.123152    4.422698
 0.71830    7.557374    4.658523     0.182946
 0.001428   0.046327    2.563799
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3272

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.85915    7.557374    4.658523     0.182946
 0.001428   0.032670    1.514656
 1.00000    7.557374    4.658523     0.182946
 0.001428   0.111331    8.247869

COMB DB-G1-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.43659   -0.387015   -37.464854   -0.188068
-0.001434   -0.205134   -64.839412
 0.57745   -0.387015   -37.464854   -0.188068
-0.001434   -0.126250   -50.191971
 0.71830   -0.387015   -37.464854   -0.188068
-0.001434   -0.047287   -36.215044
 0.85915   -0.387015   -37.464854   -0.188068
-0.001434   -0.034690   -23.447163
 1.00000   -0.387015   -37.464854   -0.188068
-0.001434   -0.107019   -13.894080

COMB DB-G1-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.43659    8.015669    4.043982     0.434654
 0.001046   0.463429    5.975823
 0.57745    8.015669    4.043982     0.434654
 0.001046   0.281136    4.280780
```

0.71830	8.015669	4.043982	0.434654
0.001046	0.098765	2.588684	
0.85915	8.015669	4.043982	0.434654
0.001046	0.087247	1.723039	
1.00000	8.015669	4.043982	0.434654
0.001046	0.274976	14.942317	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-0.265745	-47.255844	-0.447919
-0.001052	-0.477106	-68.753400	
0.57745	-0.265745	-47.255844	-0.447919
-0.001052	-0.289258	-49.484733	
0.71830	-0.265745	-47.255844	-0.447919
-0.001052	-0.101324	-30.594818	
0.85915	-0.265745	-47.255844	-0.447919
-0.001052	-0.087388	-13.428272	
1.00000	-0.265745	-47.255844	-0.447919
-0.001052	-0.265763	-6.850447	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	8.207938	15.476684	0.825125
0.003288	0.873892	22.117923	
0.57745	8.207938	15.476684	0.825125
0.003288	0.527851	16.124958	
0.71830	8.207938	15.476684	0.825125
0.003288	0.191776	11.593212	
0.85915	8.207938	15.476684	0.825125
0.003288	0.168749	24.051571	
1.00000	8.207938	15.476684	0.825125
0.003288	0.521909	57.993678	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-2.943564	-95.479866	-0.842315
-0.003293	-0.891700	-105.858774	
0.57745	-2.943564	-95.479866	-0.842315
-0.003293	-0.538429	-66.319626	
0.71830	-2.943564	-95.479866	-0.842315
-0.003293	-0.185103	-30.120669	
0.85915	-2.943564	-95.479866	-0.842315
-0.003293	-0.167578	-11.960642	
1.00000	-2.943564	-95.479866	-0.842315
-0.003293	-0.510371	-9.274832	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	5.693907	1.084768	0.164602
0.000467	0.173142	1.460790	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3273

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
	T	M2	M3
0.57745	5.693907	1.084768	0.164602
0.000467	0.104099	1.011831	
0.71830	5.693907	1.084768	0.164602
0.000467	0.035043	0.573350	
0.85915	5.693907	1.084768	0.164602
0.000467	0.036366	0.205588	
1.00000	5.693907	1.084768	0.164602
0.000467	0.107747	4.639963	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-0.098542	-20.129023	-0.170706
-0.000467	-0.179434	-39.545120	
0.57745	-0.098542	-20.129023	-0.170706
-0.000467	-0.107833	-32.282346	
0.71830	-0.098542	-20.129023	-0.170706
-0.000467	-0.036180	-26.258583	
0.85915	-0.098542	-20.129023	-0.170706
-0.000467	-0.034430	-20.387598	
1.00000	-0.098542	-20.129023	-0.170706
-0.000467	-0.102992	-14.663443	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	7.936577	6.154834	0.551037
0.003039	0.579569	6.881245	
0.57745	7.936577	6.154834	0.551037
0.003039	0.348663	4.852509	
0.71830	7.936577	6.154834	0.551037
0.003039	0.117568	4.677249	
0.85915	7.936577	6.154834	0.551037
0.003039	0.117867	26.276054	
1.00000	7.936577	6.154834	0.551037
0.003039	0.355038	58.047066	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-1.549751	-80.384645	-0.566033
-0.003039	-0.595288	-81.049773	
0.57745	-1.549751	-80.384645	-0.566033
-0.003039	-0.357888	-47.974438	
0.71830	-1.549751	-80.384645	-0.566033
-0.003039	-0.120505	-19.373622	
0.85915	-1.549751	-80.384645	-0.566033
-0.003039	-0.116016	-9.486048	
1.00000	-1.549751	-80.384645	-0.566033
-0.003039	-0.344688	-9.704541	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	9.605377	7.763542	0.564441
0.003339	0.597959	9.255601	
0.57745	9.605377	7.763542	0.564441
0.003339	0.361247	6.499027	
0.71830	9.605377	7.763542	0.564441
0.003339	0.124665	5.417555	
0.85915	9.605377	7.763542	0.564441
0.003339	0.116248	23.908487	
1.00000	9.605377	7.763542	0.564441
0.003339	0.359259	55.120315	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-1.516333	-87.707078	-0.579672
-0.003335	-0.613728	-96.023663	
0.57745	-1.516333	-87.707078	-0.579672
-0.003335	-0.370609	-59.814815	
0.71830	-1.516333	-87.707078	-0.579672
-0.003335	-0.127429	-27.718273	
0.85915	-1.516333	-87.707078	-0.579672
-0.003335	-0.115194	-13.404041	
1.00000	-1.516333	-87.707078	-0.579672
-0.003335	-0.348949	-10.993669	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3274

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	7.852383	23.942367	1.032723
0.002910	1.090932	34.207645	
0.57745	7.852383	23.942367	1.032723
0.002910	0.657810	24.539601	
0.71830	7.852383	23.942367	1.032723
0.002910	0.224633	16.026376	
0.85915	7.852383	23.942367	1.032723
0.002910	0.213085	21.271763	
1.00000	7.852383	23.942367	1.032723
0.002910	0.653805	49.270332	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-4.120457	-81.299551	-1.051083
-0.002904	-1.109951	-90.740887	
0.57745	-4.120457	-81.299551	-1.051083
-0.002904	-0.669143	-57.217085	
0.71830	-4.120457	-81.299551	-1.051083
-0.002904	-0.228293	-26.562366	
0.85915	-4.120457	-81.299551	-1.051083
-0.002904	-0.210961	-11.090505	
1.00000	-4.120457	-81.299551	-1.051083
-0.002904	-0.641589	-12.461886	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	0.227407	39.249845	0.937095
0.000888	0.987351	54.488177	
0.57745	0.227407	39.249845	0.937095
0.000888	0.594334	38.045543	
0.71830	0.227407	39.249845	0.937095
0.000888	0.201316	21.605462	
0.85915	0.227407	39.249845	0.937095
0.000888	0.193713	5.195035	
1.00000	0.227407	39.249845	0.937095
0.000888	0.590610	1.659884	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-5.431771	-3.578726	-0.946473
-0.000892	-0.997196	-4.610394	
0.57745	-5.431771	-3.578726	-0.946473
-0.000892	-0.600245	-3.124984	
0.71830	-5.431771	-3.578726	-0.946473
-0.000892	-0.203294	-1.718248	
0.85915	-5.431771	-3.578726	-0.946473
-0.000892	-0.191703	-0.836126	
1.00000	-5.431771	-3.578726	-0.946473
-0.000892	-0.584719	-11.987325	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	2.755920	50.808999	1.364502
0.004442	1.437571	75.435827	
0.57745	2.755920	50.808999	1.364502
0.004442	0.865305	55.038699	
0.71830	2.755920	50.808999	1.364502
0.004442	0.293032	36.897546	
0.85915	2.755920	50.808999	1.364502
0.004442	0.282884	43.949545	
1.00000	2.755920	50.808999	1.364502
0.004442	0.862092	63.708845	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-8.785035	-69.384328	-1.381147
-0.004446	-1.455004	-55.060343	
0.57745	-8.785035	-69.384328	-1.381147
-0.004446	-0.875750	-26.180829	
0.71830	-8.785035	-69.384328	-1.381147
-0.004446	-0.296494	-2.836035	
0.85915	-8.785035	-69.384328	-1.381147
-0.004446	-0.279267	-1.920398	
1.00000	-8.785035	-69.384328	-1.381147
-0.004446	-0.851525	-15.619462	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3275

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	5.205829	41.708867	1.414055
0.003284	1.488697	61.701510	
0.57745	5.205829	41.708867	1.414055
0.003284	0.895649	39.996159	
0.71830	5.205829	41.708867	1.414055
0.003284	0.302612	24.529876	
0.85915	5.205829	41.708867	1.414055
0.003284	0.295472	27.237751	
1.00000	5.205829	41.708867	1.414055
0.003284	0.898012	49.352534	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-6.607829	-67.023338	-1.436766
-0.003287	-1.512398	-63.371253	
0.57745	-6.607829	-67.023338	-1.436766
-0.003287	-0.909819	-35.355209	
0.71830	-6.607829	-67.023338	-1.436766
-0.003287	-0.307234	-10.826314	
0.85915	-6.607829	-67.023338	-1.436766
-0.003287	-0.290488	-7.155701	
1.00000	-6.607829	-67.023338	-1.436766
-0.003287	-0.883523	-13.654436	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	8.045812	36.306170	1.238709
0.003214	1.306616	49.643864	
0.57745	8.045812	36.306170	1.238709
0.003214	0.787105	34.813152	
0.71830	8.045812	36.306170	1.238709
0.003214	0.267593	21.282394	
0.85915	8.045812	36.306170	1.238709
0.003214	0.257013	22.879786	
1.00000	8.045812	36.306170	1.238709
0.003214	0.784734	43.209343	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-5.582616	-69.193009	-1.258676
-0.003214	-1.327383	-76.633543	
0.57745	-5.582616	-69.193009	-1.258676
-0.003214	-0.799491	-48.147465	
0.71830	-5.582616	-69.193009	-1.258676
-0.003214	-0.271575	-22.882252	
0.85915	-5.582616	-69.193009	-1.258676
-0.003214	-0.253689	-11.249420	
1.00000	-5.582616	-69.193009	-1.258676
-0.003214	-0.771489	-18.184994	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	3.590037	6.418051	0.151226
0.000822	0.164903	9.187595	
0.57745	3.590037	6.418051	0.151226
0.000822	0.101615	6.503983	
0.71830	3.590037	6.418051	0.151226
0.000822	0.038596	3.892808	
0.85915	3.590037	6.418051	0.151226
0.000822	0.031187	1.619355	
1.00000	3.590037	6.418051	0.151226
0.000822	0.105144	6.949040	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-1.372764	-37.068164	-0.175753
-0.000869	-0.189228	-56.158833	
0.57745	-1.372764	-37.068164	-0.175753
-0.000869	-0.115498	-40.640279	
0.71830	-1.372764	-37.068164	-0.175753
-0.000869	-0.041252	-25.138400	
0.85915	-1.372764	-37.068164	-0.175753
-0.000869	-0.026369	-9.785262	
1.00000	-1.372764	-37.068164	-0.175753
-0.000869	-0.088815	-2.299792	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3276

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	13.297263	9.370767	0.335069
0.001387	0.357008	13.001148	
0.57745	13.297263	9.370767	0.335069
0.001387	0.216742	9.082346	
0.71830	13.297263	9.370767	0.335069
0.001387	0.076300	5.247839	
0.85915	13.297263	9.370767	0.335069
0.001387	0.071743	2.026212	
1.00000	13.297263	9.370767	0.335069
0.001387	0.228518	12.562470	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-0.813959	-76.049401	-0.372113
-0.001445	-0.394660	-128.395345	
0.57745	-0.813959	-76.049401	-0.372113
-0.001445	-0.238483	-96.525950	
0.71830	-0.813959	-76.049401	-0.372113
-0.001445	-0.081236	-64.807349	
0.85915	-0.813959	-76.049401	-0.372113
-0.001445	-0.065585	-33.792751	
1.00000	-0.813959	-76.049401	-0.372113
-0.001445	-0.205248	-14.945485	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	14.144871	9.080202	0.724445
0.001093	0.765411	14.051340	
0.57745	14.144871	9.080202	0.724445
0.001093	0.461730	10.276507	
0.71830	14.144871	9.080202	0.724445
0.001093	0.157715	6.556413	
0.85915	14.144871	9.080202	0.724445
0.001093	0.155784	5.685279	
1.00000	14.144871	9.080202	0.724445
0.001093	0.483689	28.519850	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-0.903224	-94.361059	-0.778228
-0.001146	-0.820583	-137.460713	
0.57745	-0.903224	-94.361059	-0.778228
-0.001146	-0.493215	-97.929460	
0.71830	-0.903224	-94.361059	-0.778228
-0.001146	-0.165857	-58.493261	
0.85915	-0.903224	-94.361059	-0.778228
-0.001146	-0.146620	-22.707811	
1.00000	-0.903224	-94.361059	-0.778228
-0.001146	-0.449935	-9.071508	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	13.468988	26.051918	1.272641
0.002717	1.341458	41.696610	
0.57745	13.468988	26.051918	1.272641
0.002717	0.807899	31.150090	
0.71830	13.468988	26.051918	1.272641
0.002717	0.274666	22.822454	
0.85915	13.468988	26.051918	1.272641
0.002717	0.272401	31.970076	
1.00000	13.468988	26.051918	1.272641
0.002717	0.832361	69.589974	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-4.631139	-133.732640	-1.334597
-0.002762	-1.404946	-163.483751	
0.57745	-4.631139	-133.732640	-1.334597
-0.002762	-0.844126	-107.770447	
0.71830	-4.631139	-133.732640	-1.334597
-0.002762	-0.283516	-54.883734	
0.85915	-4.631139	-133.732640	-1.334597
-0.002762	-0.261587	-19.635116	
1.00000	-4.631139	-133.732640	-1.334597
-0.002762	-0.793507	-11.097131	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3277

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	10.255359	2.077533	0.282713
0.000410	0.295436	2.835710	
0.57745	10.255359	2.077533	0.282713
0.000410	0.176761	1.967052	
0.71830	10.255359	2.077533	0.282713
0.000410	0.058273	1.162022	
0.85915	10.255359	2.077533	0.282713
0.000410	0.062425	0.300750	
1.00000	10.255359	2.077533	0.282713
0.000410	0.188652	7.600212	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-0.155335	-42.368900	-0.299805
-0.000410	-0.313676	-78.300726	
0.57745	-0.155335	-42.368900	-0.299805
-0.000410	-0.187693	-60.546419	
0.71830	-0.155335	-42.368900	-0.299805
-0.000410	-0.061043	-42.796297	
0.85915	-0.155335	-42.368900	-0.299805
-0.000410	-0.059987	-25.106513	
1.00000	-0.155335	-42.368900	-0.299805
-0.000410	-0.178865	-13.782266	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	12.553189	6.763231	0.863760
0.002408	0.905184	10.018879	
0.57745	12.553189	6.763231	0.863760
0.002408	0.542893	7.555497	
0.71830	12.553189	6.763231	0.863760
0.002408	0.181084	8.061904	
0.85915	12.553189	6.763231	0.863760
0.002408	0.190057	31.286976	
1.00000	12.553189	6.763231	0.863760
0.002408	0.568279	73.048190	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-1.708386	-112.153935	-0.903777
-0.002407	-0.946668	-122.925469	
0.57745	-1.708386	-112.153935	-0.903777
-0.002407	-0.566925	-76.267904	
0.71830	-1.708386	-112.153935	-0.903777
-0.002407	-0.187738	-33.533956	
0.85915	-1.708386	-112.153935	-0.903777
-0.002407	-0.183063	-11.573495	
1.00000	-1.708386	-112.153935	-0.903777
-0.002407	-0.543715	-8.711653	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	16.548672	10.659854	0.899172
0.002791	0.945326	15.352813	
0.57745	16.548672	10.659854	0.899172
0.002791	0.568086	11.219082	
0.71830	16.548672	10.659854	0.899172
0.002791	0.191593	9.779040	
0.85915	16.548672	10.659854	0.899172
0.002791	0.196791	28.543826	
1.00000	16.548672	10.659854	0.899172
0.002791	0.595144	70.425896	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-1.766237	-132.882823	-0.951161
-0.002787	-0.999056	-160.801649	
0.57745	-1.766237	-132.882823	-0.951161
-0.002787	-0.599228	-105.457705	
0.71830	-1.766237	-132.882823	-0.951161
-0.002787	-0.199732	-53.715234	
0.85915	-1.766237	-132.882823	-0.951161
-0.002787	-0.188162	-21.029670	
1.00000	-1.766237	-132.882823	-0.951161
-0.002787	-0.562925	-11.359571	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3278

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	13.751787	43.054348	1.565853
0.002500	1.648256	64.550406	
0.57745	13.751787	43.054348	1.565853
0.002500	0.991439	46.789087	
0.71830	13.751787	43.054348	1.565853
0.002500	0.335079	30.823010	
0.85915	13.751787	43.054348	1.565853
0.002500	0.333219	29.025870	
1.00000	13.751787	43.054348	1.565853
0.002500	1.015703	59.406757	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-6.659344	-118.419441	-1.626438
-0.002466	-1.710882	-146.682912	
0.57745	-6.659344	-118.419441	-1.626438
-0.002466	-1.027748	-97.339626	
0.71830	-6.659344	-118.419441	-1.626438
-0.002466	-0.344379	-50.340950	
0.85915	-6.659344	-118.419441	-1.626438
-0.002466	-0.323273	-17.607621	
1.00000	-6.659344	-118.419441	-1.626438
-0.002466	-0.978439	-15.635029	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	0.470762	83.966754	1.347951
0.000933	1.419796	114.424692	
0.57745	0.470762	83.966754	1.347951
0.000933	0.854508	79.128314	
0.71830	0.470762	83.966754	1.347951
0.000933	0.289210	44.160383	
0.85915	0.470762	83.966754	1.347951
0.000933	0.280061	9.343952	
1.00000	0.470762	83.966754	1.347951
0.000933	0.857026	2.969381	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-9.881181	-7.107182	-1.373871
-0.000937	-1.446832	-9.314646	
0.57745	-9.881181	-7.107182	-1.373871
-0.000937	-0.870478	-6.371766	
0.71830	-9.881181	-7.107182	-1.373871
-0.000937	-0.293452	-3.547534	
0.85915	-9.881181	-7.107182	-1.373871
-0.000937	-0.276443	-1.369441	
1.00000	-9.881181	-7.107182	-1.373871
-0.000937	-0.841580	-26.960090	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	3.769193	95.059589	1.986402
0.004156	2.088846	137.400571	
0.57745	3.769193	95.059589	1.986402
0.004156	1.256833	98.297417	
0.71830	3.769193	95.059589	1.986402
0.004156	0.425173	63.955558	
0.85915	3.769193	95.059589	1.986402
0.004156	0.420306	59.686502	
1.00000	3.769193	95.059589	1.986402
0.004156	1.271229	83.154203	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
	T	M2	M3
0.43659	-13.615576	-90.494692	-2.032986
-0.004160	-2.138066	-73.656013	
0.57745	-13.615576	-90.494692	-2.032986
-0.004160	-1.285022	-36.441226	
0.71830	-13.615576	-90.494692	-2.032986
-0.004160	-0.432194	-5.511419	
0.85915	-13.615576	-90.494692	-2.032986
-0.004160	-0.412509	-2.333559	
1.00000	-13.615576	-90.494692	-2.032986
-0.004160	-1.242585	-28.406749	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3279

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
	T	M2	M3
0.43659	8.625803	81.674494	2.080240
0.003190	2.187238	114.296054	
0.57745	8.625803	81.674494	2.080240
0.003190	1.314833	80.426272	
0.71830	8.625803	81.674494	2.080240
0.003190	0.443289	49.599026	
0.85915	8.625803	81.674494	2.080240
0.003190	0.441570	40.523705	
1.00000	8.625803	81.674494	2.080240
0.003190	1.338575	70.969858	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-11.242874	-101.523057	-2.139525
-0.003194	-2.248851	-101.339747	
0.57745	-11.242874	-101.523057	-2.139525
-0.003194	-1.350541	-59.149387	
0.71830	-11.242874	-101.523057	-2.139525
-0.003194	-0.452636	-20.994526	
0.85915	-11.242874	-101.523057	-2.139525
-0.003194	-0.431990	-3.795738	
1.00000	-11.242874	-101.523057	-2.139525
-0.003194	-1.302456	-25.619498	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43659	14.234341	71.265918	1.853847
0.003141	1.949885	99.657536	
0.57745	14.234341	71.265918	1.853847
0.003141	1.172400	70.087549	
0.71830	14.234341	71.265918	1.853847
0.003141	0.395655	43.041064	
0.85915	14.234341	71.265918	1.853847
0.003141	0.394025	34.176405	
1.00000	14.234341	71.265918	1.853847
0.003141	1.196666	62.745427	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-9.518089	-113.638992	-1.914224
-0.003141	-2.012651	-135.487687	
0.57745	-9.518089	-113.638992	-1.914224
-0.003141	-1.208946	-88.172859	
0.71830	-9.518089	-113.638992	-1.914224
-0.003141	-0.405175	-44.278254	
0.85915	-9.518089	-113.638992	-1.914224
-0.003141	-0.384518	-18.003332	
1.00000	-9.518089	-113.638992	-1.914224
-0.003141	-1.159996	-28.478587	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43659	9.605377	50.808999	1.414055
0.004442	1.488697	75.435827	
0.57745	9.605377	50.808999	1.414055
0.004442	0.895649	55.038699	
0.71830	9.605377	50.808999	1.414055
0.004442	0.302612	36.897546	
0.85915	9.605377	50.808999	1.414055
0.004442	0.295472	43.949545	
1.00000	9.605377	50.808999	1.414055
0.004442	0.898012	63.708845	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-8.785035	-95.479866	-1.436766
-0.004446	-1.512398	-105.858774	
0.57745	-8.785035	-95.479866	-1.436766
-0.004446	-0.909819	-66.319826	
0.71830	-8.785035	-95.479866	-1.436766
-0.004446	-0.307234	-36.215044	
0.85915	-8.785035	-95.479866	-1.436766
-0.004446	-0.290488	-23.447163	
1.00000	-8.785035	-95.479866	-1.436766
-0.004446	-0.883523	-18.184994	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3280

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43659	16.548672	95.059589	2.080240
0.004156	2.187238	137.440571	
0.57745	16.548672	95.059589	2.080240
0.004156	1.314833	98.297417	
0.71830	16.548672	95.059589	2.080240
0.004156	0.443289	63.955558	
0.85915	16.548672	95.059589	2.080240
0.004156	0.441570	59.686502	
1.00000	16.548672	95.059589	2.080240
0.004156	1.338575	83.154203	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-13.615576	-133.732640	-2.139525
-0.004160	-2.248851	-163.483751	
0.57745	-13.615576	-133.732640	-2.139525
-0.004160	-1.350541	-107.770447	
0.71830	-13.615576	-133.732640	-2.139525
-0.004160	-0.452636	-64.807349	
0.85915	-13.615576	-133.732640	-2.139525
-0.004160	-0.431990	-33.792751	
1.00000	-13.615576	-133.732640	-2.139525
-0.004160	-1.302456	-28.478587	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43659	16.548672	95.059589	2.080240
0.004442	2.187238	137.440571	
0.57745	16.548672	95.059589	2.080240
0.004442	1.314833	98.297417	
0.71830	16.548672	95.059589	2.080240
0.004442	0.443289	63.955558	
0.85915	16.548672	95.059589	2.080240
0.004442	0.441570	59.686502	
1.00000	16.548672	95.059589	2.080240
0.004442	1.338575	83.154203	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-13.615576	-133.732640	-2.139525
-0.004446	-2.248851	-163.483751	
0.57745	-13.615576	-133.732640	-2.139525
-0.004446	-1.350541	-107.770447	
0.71830	-13.615576	-133.732640	-2.139525
-0.004446	-0.452636	-64.807349	
0.85915	-13.615576	-133.732640	-2.139525
-0.004446	-0.431990	-33.792751	
1.00000	-13.615576	-133.732640	-2.139525
-0.004446	-1.302456	-28.478587	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43659	16.548672	95.059589	2.080240
0.004442	2.187238	137.440571	
0.57745	16.548672	95.059589	2.080240
0.004442	1.314833	98.297417	
0.71830	16.548672	95.059589	2.080240
0.004442	0.443289	63.955558	
0.85915	16.548672	95.059589	2.080240
0.004442	0.441570	59.686502	
1.00000	16.548672	95.059589	2.080240
0.004442	1.338575	83.154203	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-13.615576	-133.732640	-2.139525
-0.004446	-2.248851	-163.483751	
0.57745	-13.615576	-133.732640	-2.139525
-0.004446	-1.350541	-107.770447	
0.71830	-13.615576	-133.732640	-2.139525
-0.004446	-0.452636	-64.807349	
0.85915	-13.615576	-133.732640	-2.139525
-0.004446	-0.431990	-33.792751	
1.00000	-13.615576	-133.732640	-2.139525
-0.004446	-1.302456	-28.478587	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3281

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 309 ========== LENGTH = 2.976630

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.126793	3.052711	0.160890
0.000533	0.108334	3.733885	
0.14082	2.126793	3.052711	0.160890
0.000533	0.040874	11.008738	
0.28163	2.126793	3.052711	0.160890
0.000533	0.026992	18.457964	
0.42245	2.126793	3.052711	0.160890
0.000533	0.095357	25.963809	
0.56326	2.126793	3.052711	0.160890
0.000533	0.163687	33.484406	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.383529	-18.060913	-0.163018
-0.000528	-0.109634	-1.379821	
0.14082	-1.383529	-18.060913	-0.163018
-0.000528	-0.041263	-2.459890	
0.28163	-1.383529	-18.060913	-0.163018
-0.000528	-0.026471	-3.570658	
0.42245	-1.383529	-18.060913	-0.163018
-0.000528	-0.093980	-4.729369	
0.56326	-1.383529	-18.060913	-0.163018
-0.000528	-0.161419	-5.946745	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.441197	5.728818	0.282054
0.001027	0.186576	8.256523	
0.14082	7.441197	5.728818	0.282054
0.001027	0.068293	21.454416	
0.28163	7.441197	5.728818	0.282054
0.001027	0.050715	35.267396	
0.42245	7.441197	5.728818	0.282054
0.001027	0.170679	49.821650	
0.56326	7.441197	5.728818	0.282054
0.001027	0.290582	64.632086	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.454881	-36.021435	-0.286022
-0.001020	-0.188947	-13.894231	
0.14082	-0.454881	-36.021435	-0.286022
-0.001020	-0.069061	-10.984252	
0.28163	-0.454881	-36.021435	-0.286022
-0.001020	-0.049715	-8.897618	
0.42245	-0.454881	-36.021435	-0.286022
-0.001020	-0.168061	-7.844876	
0.56326	-0.454881	-36.021435	-0.286022
-0.001020	-0.286297	-9.372947	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.932171	4.021851	0.527296
0.001119	0.339719	14.957308	
0.14082	7.932171	4.021851	0.527296
0.001119	0.118637	33.907539	
0.28163	7.932171	4.021851	0.527296
0.001119	0.104859	53.268087	
0.42245	7.932171	4.021851	0.527296
0.001119	0.330732	72.740345	
0.56326	7.932171	4.021851	0.527296
0.001119	0.556554	92.254607	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.256703	-46.714641	-0.538755
-0.001113	-0.346732	-6.850392	
0.14082	-0.256703	-46.714641	-0.538755
-0.001113	-0.120851	-6.240116	
0.28163	-0.256703	-46.714641	-0.538755
-0.001113	-0.102183	-6.104291	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3282

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42245	-0.256703	-46.714641	-0.538755
-0.001113	-0.323334	-6.338969	
0.56326	-0.256703	-46.714641	-0.538755
-0.001113	-0.544352	-7.634003	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.934648	36.824372	0.927384
0.003212	0.591572	58.006518	
0.14082	6.934648	36.824372	0.927384
0.003212	0.202801	73.346034	
0.28163	6.934648	36.824372	0.927384
0.003212	0.189123	89.617975	
0.42245	6.934648	36.824372	0.927384
0.003212	0.584111	116.814980	
0.56326	6.934648	36.824372	0.927384
0.003212	0.979053	147.859451	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.308446	-74.196327	-0.942231
-0.003199	-0.600722	-9.295959	
0.14082	-4.308446	-74.196327	-0.942231
-0.003199	-0.205744	-9.711747	
0.28163	-4.308446	-74.196327	-0.942231
-0.003199	-0.185771	-13.230938	
0.42245	-4.308446	-74.196327	-0.942231
-0.003199	-0.574590	-18.293372	
0.56326	-4.308446	-74.196327	-0.942231
-0.003199	-0.963307	-33.428810	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.656537	1.104713	0.176580
0.000431	0.111547	4.646255	
0.14082	5.656537	1.104713	0.176580
0.000431	0.037502	12.499021	
0.28163	5.656537	1.104713	0.176580
0.000431	0.037623	20.645584	
0.42245	5.656537	1.104713	0.176580
0.000431	0.113807	28.912266	
0.56326	5.656537	1.104713	0.176580
0.000431	0.189954	37.208697	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.098168	-19.984883	-0.181675
-0.000430	-0.114640	-14.662779	
0.14082	-0.098168	-19.984883	-0.181675
-0.000430	-0.038443	-9.365452	
0.28163	-0.098168	-19.984883	-0.181675
-0.000430	-0.036467	-4.754257	
0.42245	-0.098168	-19.984883	-0.181675
-0.000430	-0.110489	-2.106595	
0.56326	-0.098168	-19.984883	-0.181675
-0.000430	-0.184501	-2.164151	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.194488	35.228201	0.576960
0.003446	0.364122	58.058224	
0.14082	6.194488	35.228201	0.576960
0.003446	0.122270	58.513309	
0.28163	6.194488	35.228201	0.576960
0.003446	0.122508	59.979925	
0.42245	6.194488	35.228201	0.576960
0.003446	0.369911	76.355434	
0.56326	6.194488	35.228201	0.576960
0.003446	0.617292	97.979338	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.395067	-51.692086	-0.590189
-0.003445	-0.372239	-9.740091	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3283

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14082	-3.395067	-51.692086	-0.590189
-0.003445	-0.124817	-4.586379	
0.28163	-3.395067	-51.692086	-0.590189
-0.003445	-0.119556	-3.158030	
0.42245	-3.395067	-51.692086	-0.590189
-0.003445	-0.361392	-3.773752	
0.56326	-3.395067	-51.692086	-0.590189
-0.003445	-0.603225	-18.163035	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.012027	34.013969	0.639219
0.003526	0.408112	55.133822	
0.14082	8.012027	34.013969	0.639219
0.003526	0.140129	61.478397	
0.28163	8.012027	34.013969	0.639219
0.003526	0.130743	68.967675	
0.42245	8.012027	34.013969	0.639219
0.003526	0.404267	89.987724	
0.56326	8.012027	34.013969	0.639219
0.003526	0.677764	115.784149	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.177557	-61.687111	-0.652493
-0.003521	-0.416230	-11.024587	
0.14082	-3.177557	-61.687111	-0.652493
-0.003521	-0.142694	-5.270756	
0.28163	-3.177557	-61.687111	-0.652493
-0.003521	-0.137237	-4.014845	
0.42245	-3.177557	-61.687111	-0.652493
-0.003521	-0.395692	-6.732047	
0.56326	-3.177557	-61.687111	-0.652493
-0.003521	-0.663623	-20.722472	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.799573	41.414203	1.126467
0.002889	0.715388	49.283255	
0.14082	6.799573	41.414203	1.126467
0.002889	0.243178	63.110906	
0.28163	6.799573	41.414203	1.126467
0.002889	0.232511	77.763258	
0.42245	6.799573	41.414203	1.126467
0.002889	0.711516	101.313251	
0.56326	6.799573	41.414203	1.126467
0.002889	1.190497	128.007734	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.248827	-63.803181	-1.142727
-0.002884	-0.725434	-12.475589	
0.14082	-5.248827	-63.803181	-1.142727
-0.002884	-0.246417	-15.775219	
0.28163	-5.248827	-63.803181	-1.142727
-0.002884	-0.228928	-23.186643	
0.42245	-5.248827	-63.803181	-1.142727
-0.002884	-0.701115	-32.106076	
0.56326	-5.248827	-63.803181	-1.142727
-0.002884	-1.173280	-49.217357	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.234936	39.642461	0.986471
0.000811	0.623337	1.657442	
0.14082	0.234936	39.642461	0.986471
0.000811	0.209851	2.920584	
0.28163	0.234936	39.642461	0.986471
0.000811	0.205443	4.355711	
0.42245	0.234936	39.642461	0.986471
0.000811	0.796228	5.823327	
0.56326	0.234936	39.642461	0.986471
0.000811	1.039693	7.323374	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3284

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.489621	-3.553387	-0.995151
-0.000810	-0.626807	-11.976038	
0.14082	-5.489621	-3.553387	-0.995151
-0.000810	-0.211682	-28.412342	
0.28163	-5.489621	-3.553387	-0.995151
-0.000810	-0.203636	-44.861316	
0.42245	-5.489621	-3.553387	-0.995151
-0.000810	-0.617123	-61.409354	
0.56326	-5.489621	-3.553387	-0.995151
-0.000810	-1.030609	-78.025273	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.708886	86.486886	1.434878
0.004423	0.906722	63.706295	
0.14082	0.708886	86.486886	1.434878
0.004423	0.305284	51.161585	
0.28163	0.708886	86.486886	1.434878
0.004423	0.299445	41.117669	
0.42245	0.708886	86.486886	1.434878
0.004423	0.907346	49.328310	
0.56326	0.708886	86.486886	1.434878
0.004423	1.515239	63.911149	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.102173	-34.819809	-1.450271
-0.004422	-0.916344	-15.647718	
0.14082	-11.102173	-34.819809	-1.450271
-0.004422	-0.308471	-28.995511	
0.28163	-11.102173	-34.819809	-1.450271
-0.004422	-0.296188	-46.535482	
0.42245	-11.102173	-34.819809	-1.450271
-0.004422	-0.897615	-66.953430	
0.56326	-11.102173	-34.819809	-1.450271
-0.004422	-1.499055	-103.189492	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.760585	66.405470	1.477461
0.003568	0.932552	49.358548	
0.14082	3.760585	66.405470	1.477461
0.003568	0.313245	49.927147	
0.28163	3.760585	66.405470	1.477461
0.003568	0.310484	51.186121	
0.42245	3.760585	66.405470	1.477461
0.003568	0.938456	64.858240	
0.56326	3.760585	66.405470	1.477461
0.003568	1.566408	82.899444	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.209108	-43.048680	-1.498128
-0.003567	-0.945406	-13.670828	
0.14082	-8.209108	-43.048680	-1.498128
-0.003567	-0.317418	-26.396566	
0.28163	-8.209108	-43.048680	-1.498128
-0.003567	-0.306032	-42.215310	
0.42245	-8.209108	-43.048680	-1.498128
-0.003567	-0.925325	-59.436588	
0.56326	-8.209108	-43.048680	-1.498128
-0.003567	-1.544613	-87.246186	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.838953	56.716134	1.327698
0.003299	0.841043	43.217686	
0.14082	6.838953	56.716134	1.327698
0.003299	0.284511	48.934627	
0.28163	6.838953	56.716134	1.327698
0.003299	0.275857	55.541352	
0.42245	6.838953	56.716134	1.327698
0.003299	0.839850	72.510774	
0.56326	6.838953	56.716134	1.327698
0.003299	1.403815	93.128911	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3285

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.902839	-49.319079	-1.345474
-0.003296	-0.852049	-18.199601	
0.14082	-6.902839	-49.319079	-1.345474
-0.003296	-0.288052	-26.632006	
0.28163	-6.902839	-49.319079	-1.345474
-0.003296	-0.271981	-38.225196	
0.42245	-6.902839	-49.319079	-1.345474
-0.003296	-0.828502	-52.203357	
0.56326	-6.902839	-49.319079	-1.345474
-0.003296	-1.385014	-75.712368	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.542989	6.394816	0.231920
0.000522	0.154915	6.957838	
0.14082	3.542989	6.394816	0.231920
0.000522	0.057647	22.025882	
0.28163	3.542989	6.394816	0.231920
0.000522	0.042604	37.214506	
0.42245	3.542989	6.394816	0.231920
0.000522	0.145798	52.456454	
0.56326	3.542989	6.394816	0.231920
0.000522	0.248528	67.737472	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.361422	-36.676755	-0.244626
-0.000516	-0.161066	-2.303813	
0.14082	-1.361422	-36.676755	-0.244626
-0.000516	-0.058370	-4.702691	
0.28163	-1.361422	-36.676755	-0.244626
-0.000516	-0.039920	-7.205676	
0.42245	-1.361422	-36.676755	-0.244626
-0.000516	-0.137048	-9.751159	
0.56326	-1.361422	-36.676755	-0.244626
-0.000516	-0.234162	-12.357873	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.130656	10.095151	0.423228
0.000934	0.275537	12.581190	
0.14082	13.130656	10.095151	0.423228
0.000934	0.097914	39.525035	
0.28163	13.130656	10.095151	0.423228
0.000934	0.084636	68.200038	
0.42245	13.130656	10.095151	0.423228
0.000934	0.276403	97.820332	
0.56326	13.130656	10.095151	0.423228
0.000934	0.467206	128.470815	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.856322	-74.631882	-0.454206
-0.000928	-0.293728	-14.949533	
0.14082	-0.856322	-74.631882	-0.454206
-0.000928	-0.102987	-13.023644	
0.28163	-0.856322	-74.631882	-0.454206
-0.000928	-0.079553	-13.599348	
0.42245	-0.856322	-74.631882	-0.454206
-0.000928	-0.257088	-15.007447	
0.56326	-0.856322	-74.631882	-0.454206
-0.000928	-0.434237	-18.448030	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	13.960398	8.973272	0.809638
0.001027	0.517363	28.549225	
0.14082	13.960398	8.973272	0.809638
0.001027	0.177750	65.213792	
0.28163	13.960398	8.973272	0.809638
0.001027	0.169121	103.179955	
0.42245	13.960398	8.973272	0.809638
0.001027	0.529896	141.482870	
0.56326	13.960398	8.973272	0.809638
0.001027	0.889332	180.254708	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3286

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.889239	-93.201892	-0.856220
-0.001020	-0.544934	-9.074515	
0.14082	-0.889239	-93.201892	-0.856220
-0.001020	-0.184918	-9.133676	
0.28163	-0.889239	-93.201892	-0.856220
-0.001020	-0.161270	-10.855220	
0.42245	-0.889239	-93.201892	-0.856220
-0.001020	-0.501030	-13.034096	
0.56326	-0.889239	-93.201892	-0.856220
-0.001020	-0.840244	-16.330934	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.187104	46.632634	1.377630
0.002435	0.876306	69.628888	
0.14082	12.187104	46.632634	1.377630
0.002435	0.299425	99.850218	
0.28163	12.187104	46.632634	1.377630
0.002435	0.288197	131.998266	
0.42245	12.187104	46.632634	1.377630
0.002435	0.889479	172.735747	
0.56326	12.187104	46.632634	1.377630
0.002435	1.489707	217.670231	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.178770	-109.137360	-1.430770
-0.002427	-0.907678	-11.111966	
0.14082	-6.178770	-109.137360	-1.430770
-0.002427	-0.307581	-15.239960	
0.28163	-6.178770	-109.137360	-1.430770
-0.002427	-0.279233	-23.119605	
0.42245	-6.178770	-109.137360	-1.430770
-0.002427	-0.856320	-32.584420	
0.56326	-6.178770	-109.137360	-1.430770
-0.002427	-1.433630	-51.175102	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.167519	2.046704	0.283516
0.000371	0.177266	7.612832	
0.14082	10.167519	2.046704	0.283516
0.000371	0.058015	22.083594	
0.28163	10.167519	2.046704	0.283516
0.000371	0.063019	37.691927	
0.42245	10.167519	2.046704	0.283516
0.000371	0.192388	54.127703	
0.56326	10.167519	2.046704	0.283516
0.000371	0.321192	71.527205	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.153539	-42.140216	-0.306602
-0.000370	-0.192234	-13.782484	
0.14082	-0.153539	-42.140216	-0.306602
-0.000370	-0.063291	-8.684542	
0.28163	-0.153539	-42.140216	-0.306602
-0.000370	-0.059649	-5.352752	
0.42245	-0.153539	-42.140216	-0.306602
-0.000370	-0.178836	-3.638494	
0.56326	-0.153539	-42.140216	-0.306602
-0.000370	-0.297807	-4.063491	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.648567	37.744653	0.883744
0.002640	0.557642	73.091533	
0.14082	10.648567	37.744653	0.883744
0.002640	0.188235	83.337742	
0.28163	10.648567	37.744653	0.883744
0.002640	0.190371	94.825481	
0.42245	10.648567	37.744653	0.883744
0.002640	0.578466	119.126617	
0.56326	10.648567	37.744653	0.883744
0.002640	0.966529	149.603484	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3287

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.991423	-75.162186	-0.924734
-0.002640	-0.582733	-8.741451	
0.14082	-3.991423	-75.162186	-0.924734
-0.002640	-0.195507	-4.293747	
0.28163	-3.991423	-75.162186	-0.924734
-0.002640	-0.183617	-3.580085	
0.42245	-3.991423	-75.162186	-0.924734
-0.002640	-0.553605	-4.919977	
0.56326	-3.991423	-75.162186	-0.924734
-0.002640	-0.924057	-19.554085	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.786026	38.644077	0.959356
0.002784	0.609578	70.471816	
0.14082	14.786026	38.644077	0.959356
0.002784	0.208443	91.476583	
0.28163	14.786026	38.644077	0.959356
0.002784	0.203378	114.636953	
0.42245	14.786026	38.644077	0.959356
0.002784	0.627428	142.661366	
0.56326	14.786026	38.644077	0.959356
0.002784	1.050583	190.326208	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.821572	-99.279227	-1.008755
-0.002780	-0.639405	-11.388706	
0.14082	-3.821572	-99.279227	-1.008755
-0.002780	-0.216778	-7.304237	
0.28163	-3.821572	-99.279227	-1.008755
-0.002780	-0.195206	-8.185331	
0.42245	-3.821572	-99.279227	-1.008755
-0.002780	-0.596821	-11.384263	
0.56326	-3.821572	-99.279227	-1.008755
-0.002780	-0.998974	-26.551504	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.678970	60.471616	1.657776
0.002264	1.049718	59.439709	
0.14082	12.678970	60.471616	1.657776
0.002264	0.355072	87.024012	
0.28163	12.678970	60.471616	1.657776
0.002264	0.349629	116.582479	
0.42245	12.678970	60.471616	1.657776
0.002264	1.070740	153.471316	
0.56326	12.678970	60.471616	1.657776
0.002264	1.790267	193.882905	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.992856	-97.982754	-1.715856
-0.002262	-1.084838	-15.637685	
0.14082	-7.992856	-97.982754	-1.715856
-0.002262	-0.364966	-27.356090	
0.28163	-7.992856	-97.982754	-1.715856
-0.002262	-0.340306	-42.941097	
0.42245	-7.992856	-97.982754	-1.715856
-0.002262	-1.034935	-60.136710	
0.56326	-7.992856	-97.982754	-1.715856
-0.002262	-1.729836	-84.738353	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.489315	84.899291	1.414001
0.000827	0.892854	2.964140	
0.14082	0.489315	84.899291	1.414001
0.000827	0.299661	5.785108	
0.28163	0.489315	84.899291	1.414001
0.000827	0.296721	8.699937	
0.42245	0.489315	84.899291	1.414001
0.000827	0.902210	11.638911	
0.56326	0.489315	84.899291	1.414001
0.000827	1.506759	14.600038	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3288

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.011837	-7.104654	-1.442194
-0.000831	-0.910487	-26.934296	
0.14082	-10.011837	-7.104654	-1.442194
-0.000831	-0.304978	-62.342071	
0.28163	-10.011837	-7.104654	-1.442194
-0.000831	-0.292570	-97.748937	
0.42245	-10.011837	-7.104654	-1.442194
-0.000831	-0.885232	-133.250164	
0.56326	-10.011837	-7.104654	-1.442194
-0.000831	-1.477923	-168.825330	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.276016	140.068053	2.080699
0.003961	1.316277	83.180754	
0.14082	1.276016	140.068053	2.080699
0.003961	0.445808	70.534491	
0.28163	1.276016	140.068053	2.080699
0.003961	0.436519	59.446205	
0.42245	1.276016	140.068053	2.080699
0.003961	1.327223	66.227204	
0.56326	1.276016	140.068053	2.080699
0.003961	2.217854	81.342827	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.999813	-39.014652	-2.124499
-0.003965	-1.342947	-28.418558	
0.14082	-16.999813	-39.014652	-2.124499
-0.003965	-0.453048	-60.526409	
0.28163	-16.999813	-39.014652	-2.124499
-0.003965	-0.429539	-96.696239	
0.42245	-16.999813	-39.014652	-2.124499
-0.003965	-1.300187	-136.038884	
0.56326	-16.999813	-39.014652	-2.124499
-0.003965	-2.172334	-193.535157	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.743777	114.400106	2.162603
0.003296	1.365524	71.002456	
0.14082	6.743777	114.400106	2.162603
0.003296	0.459591	77.416091	
0.28163	6.743777	114.400106	2.162603
0.003296	0.457760	84.568742	
0.42245	6.743777	114.400106	2.162603
0.003296	1.390183	104.618645	
0.56326	6.743777	114.400106	2.162603
0.003296	2.321914	130.571600	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.715294	-63.855642	-2.222197
-0.003300	-1.401870	-25.621263	
0.14082	-13.715294	-63.855642	-2.222197
-0.003300	-0.470050	-54.728130	
0.28163	-13.715294	-63.855642	-2.222197
-0.003300	-0.448419	-86.843960	
0.42245	-13.715294	-63.855642	-2.222197
-0.003300	-1.354005	-121.238665	
0.56326	-13.715294	-63.855642	-2.222197
-0.003300	-2.260428	-168.396807	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.628858	98.383554	1.944305
0.003063	1.229384	62.778789	
0.14082	12.628858	98.383554	1.944305
0.003063	0.414837	78.818745	
0.28163	12.628858	98.383554	1.944305
0.003063	0.410919	95.371692	
0.42245	12.628858	98.383554	1.944305
0.003063	1.253401	123.698715	
0.56326	12.628858	98.383554	1.944305
0.003063	2.094800	157.315058	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3289

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.562159	-82.375544	-2.006628
-0.003063	-1.267665	-28.481436	
0.14082	-11.562159	-82.375544	-2.006628
-0.003063	-0.426199	-50.936928	
0.28163	-11.562159	-82.375544	-2.006628
-0.003063	-0.401325	-77.293324	
0.42245	-11.562159	-82.375544	-2.006628
-0.003063	-1.215559	-106.320755	
0.56326	-11.562159	-82.375544	-2.006628
-0.003063	-2.030539	-146.574355	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.012027	86.486886	1.477461
0.004423	0.932552	63.706295	
0.14082	8.012027	86.486886	1.477461
0.004423	0.313245	73.346034	
0.28163	8.012027	86.486886	1.477461
0.004423	0.310484	89.617975	
0.42245	8.012027	86.486886	1.477461
0.004423	0.938456	116.814980	
0.56326	8.012027	86.486886	1.477461
0.004423	1.566408	147.859451	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.102173	-74.196327	-1.498128
-0.004422	-0.945406	-18.199601	
0.14082	-11.102173	-74.196327	-1.498128
-0.004422	-0.317418	-28.995511	
0.28163	-11.102173	-74.196327	-1.498128
-0.004422	-0.306032	-46.535482	
0.42245	-11.102173	-74.196327	-1.498128
-0.004422	-0.925325	-66.953430	
0.56326	-11.102173	-74.196327	-1.498128
-0.004422	-1.544613	-103.189492	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.786026	140.068053	2.162603
0.003961	1.365524	83.180754	
0.14082	14.786026	140.068053	2.162603
0.003961	0.459591	99.850218	
0.28163	14.786026	140.068053	2.162603
0.003961	0.457760	131.998266	
0.42245	14.786026	140.068053	2.162603
0.003961	1.390183	172.735747	
0.56326	14.786026	140.068053	2.162603
0.003961	2.321914	217.670231	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.999813	-109.137360	-2.222197
-0.003965	-1.401870	-28.481436	
0.14082	-16.999813	-109.137360	-2.222197
-0.003965	-0.470050	-62.342071	
0.28163	-16.999813	-109.137360	-2.222197
-0.003965	-0.448419	-97.748937	
0.42245	-16.999813	-109.137360	-2.222197
-0.003965	-1.354005	-136.038884	
0.56326	-16.999813	-109.137360	-2.222197
-0.003965	-2.260428	-193.535157	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.786026	140.068053	2.162603
0.004423	1.365524	83.180754	
0.14082	14.786026	140.068053	2.162603
0.004423	0.459591	99.850218	
0.28163	14.786026	140.068053	2.162603
0.004423	0.457760	131.998266	
0.42245	14.786026	140.068053	2.162603
0.004423	1.390183	172.735747	
0.56326	14.786026	140.068053	2.162603
0.004423	2.321914	217.670231	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3290

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.999813	-109.137360	-2.222197
-0.004422	-1.401870	-28.481436	
0.14082	-16.999813	-109.137360	-2.222197
-0.004422	-0.470050	-62.342071	
0.28163	-16.999813	-109.137360	-2.222197
-0.004422	-0.448419	-97.748937	
0.42245	-16.999813	-109.137360	-2.222197
-0.004422	-1.354005	-136.038884	
0.56326	-16.999813	-109.137360	-2.222197
-0.004422	-2.260428	-193.535157	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.786026	140.068053	2.162603
0.004423	1.365524	83.180754	
0.14082	14.786026	140.068053	2.162603
0.004423	0.459591	99.850218	
0.28163	14.786026	140.068053	2.162603
0.004423	0.457760	131.998266	
0.42245	14.786026	140.068053	2.162603
0.004423	1.390183	172.735747	
0.56326	14.786026	140.068053	2.162603
0.004423	2.321914	217.670231	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.999813	-109.137360	-2.222197
-0.004422	-1.401870	-28.481436	
0.14082	-16.999813	-109.137360	-2.222197
-0.004422	-0.470050	-62.342071	
0.28163	-16.999813	-109.137360	-2.222197
-0.004422	-0.448419	-97.748937	
0.42245	-16.999813	-109.137360	-2.222197
-0.004422	-1.354005	-136.038884	
0.56326	-16.999813	-109.137360	-2.222197
-0.004422	-2.260428	-193.535157	

ELEM 310 ========== LENGTH = 2.977323

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	2.576629	2.911964	0.082995
0.001022	0.094252	3.772097	
0.57748	2.576629	2.911964	0.082995
0.001022	0.059737	3.054940	
0.71832	2.576629	2.911964	0.082995
0.001022	0.025182	2.983455	
0.85916	2.576629	2.911964	0.082995
0.001022	0.015958	3.739927	
1.00000	2.576629	2.911964	0.082995
0.001022	0.066328	7.727943	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.811164	-19.889667	-0.120118
-0.000543	-0.135126	-26.180499	
0.57748	-0.811164	-19.889667	-0.120118
-0.000543	-0.084758	-17.841098	
0.71832	-0.811164	-19.889667	-0.120118
-0.000543	-0.034376	-12.050068	
0.85916	-0.811164	-19.889667	-0.120118
-0.000543	-0.014738	-9.986524	
1.00000	-0.811164	-19.889667	-0.120118
-0.000543	-0.049693	-8.694689	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.203984	4.563666	0.165218
0.001895	0.177802	5.921315	
0.57748	6.203984	4.563666	0.165218
0.001895	0.108443	4.090009	
0.71832	6.203984	4.563666	0.165218
0.001895	0.041903	2.427417	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3291

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85916	6.203984	4.563666	0.165218
0.001895	0.048083	3.472750	
1.00000	6.203984	4.563666	0.165218
0.001895	0.171136	13.151710	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.504872	-42.106728	-0.294218
-0.000892	-0.322549	-69.395282	
0.57748	-0.504872	-42.106728	-0.294218
-0.000892	-0.199174	-52.352454	
0.71832	-0.504872	-42.106728	-0.294218
-0.000892	-0.075738	-38.819587	
0.85916	-0.504872	-42.106728	-0.294218
-0.000892	-0.029710	-32.178595	
1.00000	-0.504872	-42.106728	-0.294218
-0.000892	-0.099203	-26.295901	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.853069	19.794666	0.333922
0.001662	0.361263	44.124209	
0.57748	6.853069	19.794666	0.333922
0.001662	0.221173	35.873321	
0.71832	6.853069	19.794666	0.333922
0.001662	0.083345	27.919550	
0.85916	6.853069	19.794666	0.333922
0.001662	0.097488	22.203415	
1.00000	6.853069	19.794666	0.333922
0.001662	0.339515	26.601606	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.624381	-54.302926	-0.576991
-0.000657	-0.628273	-84.433981	
0.57748	-1.624381	-54.302926	-0.576991
-0.000657	-0.386323	-62.109343	
0.71832	-1.624381	-54.302926	-0.576991
-0.000657	-0.144343	-42.497726	
0.85916	-1.624381	-54.302926	-0.576991
-0.000657	-0.058429	-28.586057	
1.00000	-1.624381	-54.302926	-0.576991
-0.000657	-0.198734	-17.554713	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.927931	28.686834	0.680668
0.003775	0.737049	57.460414	
0.57748	8.927931	28.686834	0.680668
0.003775	0.451568	46.239400	
0.71832	8.927931	28.686834	0.680668
0.003775	0.167090	38.843440	
0.85916	8.927931	28.686834	0.680668
0.003775	0.171715	49.617674	
1.00000	8.927931	28.686834	0.680668
0.003775	0.563864	78.165451	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-3.266660	-110.500213	-0.950150
-0.003831	-1.033763	-123.662449	
0.57748	-3.266660	-110.500213	-0.950150
-0.003831	-0.635334	-77.879261	
0.71832	-3.266660	-110.500213	-0.950150
-0.003831	-0.236971	-42.393899	
0.85916	-3.266660	-110.500213	-0.950150
-0.003831	-0.120849	-23.958422	
1.00000	-3.266660	-110.500213	-0.950150
-0.003831	-0.404570	-17.068078	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	3.875649	2.452781	0.111796
0.000733	0.120812	3.805352	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3292

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57748	3.875649	2.452781	0.111796
0.000733	0.073927	3.057748	
0.71832	3.875649	2.452781	0.111796
0.000733	0.027005	2.520137	
0.85916	3.875649	2.452781	0.111796
0.000733	0.045415	2.501127	
1.00000	3.875649	2.452781	0.111796
0.000733	0.149695	6.235350	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.119735	-24.561085	-0.248606
-0.000111	-0.267305	-47.366047	
0.57748	-0.119735	-24.561085	-0.248606
-0.000111	-0.163057	-37.627215	
0.71832	-0.119735	-24.561085	-0.248606
-0.000111	-0.058800	-28.690361	
0.85916	-0.119735	-24.561085	-0.248606
-0.000111	-0.019684	-22.337123	
1.00000	-0.119735	-24.561085	-0.248606
-0.000111	-0.066699	-17.241987	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	7.311494	22.088628	0.414279
0.003627	0.449098	52.256417	
0.57748	7.311494	22.088628	0.414279
0.003627	0.275379	43.861855	
0.71832	7.311494	22.088628	0.414279
0.003627	0.101572	40.365302	
0.85916	7.311494	22.088628	0.414279
0.003627	0.132795	57.385171	
1.00000	7.311494	22.088628	0.414279
0.003627	0.405938	79.501620	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.998725	-92.879356	-0.671743
-0.003925	-0.726172	-98.329479	
0.57748	-1.998725	-92.879356	-0.671743
-0.003925	-0.444490	-60.139235	
0.71832	-1.998725	-92.879356	-0.671743
-0.003925	-0.162806	-33.062215	
0.85916	-1.998725	-92.879356	-0.671743
-0.003925	-0.074576	-19.525328	
1.00000	-1.998725	-92.879356	-0.671743
-0.003925	-0.245778	-8.882475	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.050161	21.816866	0.441489
0.004065	0.478041	49.153156	
0.57748	9.050161	21.816866	0.441489
0.004065	0.292845	40.817032	
0.71832	9.050161	21.816866	0.441489
0.004065	0.107623	36.989377	
0.85916	9.050161	21.816866	0.441489
0.004065	0.136144	51.724443	
1.00000	9.050161	21.816866	0.441489
0.004065	0.428461	76.565233	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.931647	-100.725852	-0.715468
-0.003950	-0.776493	-111.510386	
0.57748	-1.931647	-100.725852	-0.715468
-0.003950	-0.476472	-69.920876	

0.71832 -1.931647 -100.725852 -0.715468
-0.003950 -0.176386 -40.648242
0.85916 -1.931647 -100.725852 -0.715468
-0.003950 -0.079388 -27.262757
1.00000 -1.931647 -100.725852 -0.715468
-0.003950 -0.262394 -16.485995
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3293

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		8.418477	38.366704	0.863023
0.003245		0.934505	70.906682	
0.57748		8.418477	38.366704	0.863023
0.003245		0.572558	55.479959	
0.71832		8.418477	38.366704	0.863023
0.003245		0.210590	43.274213	
0.85916		8.418477	38.366704	0.863023
0.003245		0.206678	44.995389	
1.00000		8.418477	38.366704	0.863023
0.003245		0.686525	66.080954	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-4.368299	-100.540580	-1.156648
-0.003498		-1.256830	-119.140918	
0.57748		-4.368299	-100.540580	-1.156648
-0.003498		-0.771809	-77.481781	
0.71832		-4.368299	-100.540580	-1.156648
-0.003498		-0.286747	-44.544928	
0.85916		-4.368299	-100.540580	-1.156648
-0.003498		-0.152433	-23.346310	
1.00000		-4.368299	-100.540580	-1.156648
-0.003498		-0.512993	-18.940805	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		1.035640	42.876232	0.821217
0.000496		0.889197	61.259206	
0.57748		1.035640	42.876232	0.821217
0.000496		0.544835	43.346532	
0.71832		1.035640	42.876232	0.821217
0.000496		0.200473	25.500318	
0.85916		1.035640	42.876232	0.821217
0.000496		0.158765	8.048095	
1.00000		1.035640	42.876232	0.821217
0.000496		0.549807	2.209740	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-5.053929	-6.558195	-0.933000
-0.001264		-1.015158	-19.609081	
0.57748		-5.053929	-6.558195	-0.933000
-0.001264		-0.623922	-16.992904	
0.71832		-5.053929	-6.558195	-0.933000
-0.001264		-0.232891	-14.655697	
0.85916		-5.053929	-6.558195	-0.933000
-0.001264		-0.143867	-12.487124	
1.00000		-5.053929	-6.558195	-0.933000
-0.001264		-0.488251	-12.372505	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		5.224632	59.321202	1.179795
0.004240		1.278034	101.286949	
0.57748		5.224632	59.321202	1.179795
0.004240		0.783308	77.485033	
0.71832		5.224632	59.321202	1.179795
0.004240		0.288571	59.162092	
0.85916		5.224632	59.321202	1.179795
0.004240		0.253087	65.982653	
1.00000		5.224632	59.321202	1.179795
0.004240		0.822132	83.472197	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-7.087371	-90.618227	-1.382064
-0.006123		-1.502903	-80.916592	
0.57748		-7.087371	-90.618227	-1.382064
-0.006123		-0.923360	-43.375412	
0.71832		-7.087371	-90.618227	-1.382064
-0.006123		-0.343926	-19.271256	
0.85916		-7.087371	-90.618227	-1.382064
-0.006123		-0.209291	-11.001867	
1.00000		-7.087371	-90.618227	-1.382064
-0.006123		-0.700868	-13.210366	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3294

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		6.571896	59.168794	1.175819
0.003351		1.273877	102.115540	
0.57748		6.571896	59.168794	1.175819
0.003351		0.780820	78.222739	
0.71832		6.571896	59.168794	1.175819
0.003351		0.287710	58.624250	
0.85916		6.571896	59.168794	1.175819
0.003351		0.247348	56.941110	
1.00000		6.571896	59.168794	1.175819
0.003351		0.882973	67.923545	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-6.661432	-89.142249	-1.485142
-0.004502		-1.612857	-99.996979	
0.57748		-6.661432	-89.142249	-1.485142
-0.004502		-0.990099	-63.058682	
0.71832		-6.661432	-89.142249	-1.485142
-0.004502		-0.367420	-35.344861	
0.85916		-6.661432	-89.142249	-1.485142
-0.004502		-0.207471	-18.532664	
1.00000		-6.661432	-89.142249	-1.485142
-0.004502		-0.698355	-12.746980	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		8.070916	51.043132	1.041063
0.003444		1.127316	87.815626	
0.57748		8.070916	51.043132	1.041063
0.003444		0.690725	67.078566	
0.71832		8.070916	51.043132	1.041063
0.003444		0.254104	49.908139	
0.85916		8.070916	51.043132	1.041063
0.003444		0.243616	47.651471	
1.00000		8.070916	51.043132	1.041063
0.003444		0.807429	59.645762	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-5.678548	-89.736250	-1.358711
-0.004005		-1.475512	-110.417249	
0.57748		-5.678548	-89.736250	-1.358711
-0.004005		-0.905770	-73.438836	
0.71832 -5.678548 -89.736250 -1.358711
-0.004005 -0.336085 -46.061758
0.85916 -5.678548 -89.736250 -1.358711
-0.004005 -0.183914 -29.527506
1.00000 -5.678548 -89.736250 -1.358711
-0.004005 -0.618831 -22.264059

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		4.496995	5.845705	0.151867
0.001093		0.169242	8.400649	
0.57748		4.496995	5.845705	0.151867
0.001093		0.105665	6.410892	
0.71832		4.496995	5.845705	0.151867
0.001093		0.041842	4.559878	
0.85916		4.496995	5.845705	0.151867
0.001093		0.031567	3.311894	
1.00000		4.496995	5.845705	0.151867
0.001093		0.120228	11.137808	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-0.911336	-31.858384	-0.209459
-0.000536		-0.230337	-47.106798	
0.57748		-0.911336	-31.858384	-0.209459
-0.000536		-0.142303	-33.863636	
0.71832		-0.911336	-31.858384	-0.209459
-0.000536		-0.053867	-21.588883	
0.85916		-0.911336	-31.858384	-0.209459
-0.000536		-0.023822	-11.312861	
1.00000		-0.911336	-31.858384	-0.209459
-0.000536		-0.087340	-9.216884	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3295

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		10.636096	8.340363	0.272050
0.001914		0.296556	10.984065	
0.57748		10.636096	8.340363	0.272050
0.001914		0.182249	7.650318	
0.71832		10.636096	8.340363	0.272050
0.001914		0.069859	4.775597	
0.85916		10.636096	8.340363	0.272050
0.001914		0.090094	3.235379	
1.00000		10.636096	8.340363	0.272050
0.001914		0.310871	16.978384	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-0.869318	-68.770058	-0.523112
-0.000804		-0.565758	-118.743152	
0.57748		-0.869318	-68.770058	-0.523112
-0.000804		-0.346014	-90.155517	
0.71832		-0.869318	-68.770058	-0.523112
-0.000804		-0.125361	-62.782183	
0.85916		-0.869318	-68.770058	-0.523112
-0.000804		-0.046025	-38.172973	
1.00000		-0.869318	-68.770058	-0.523112
-0.000804		-0.160325	-26.281407	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		11.305333	20.793152	0.576430
0.001693		0.626603	42.556796	
0.57748		11.305333	20.793152	0.576430
0.001693		0.384632	34.367105	
0.71832		11.305333	20.793152	0.576430
0.001693		0.144368	27.846259	
0.85916		11.305333	20.793152	0.576430
0.001693		0.164132	23.644147	
1.00000		11.305333	20.793152	0.576430
0.001693		0.564477	37.003354	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-1.877763	-84.476755	-0.949801
-0.000636		-1.026911	-129.343556	
0.57748		-1.877763	-84.476755	-0.949801
-0.000636		-0.628169	-94.507172	
0.71832		-1.877763	-84.476755	-0.949801
-0.000636		-0.227849	-61.877959	
0.85916		-1.877763	-84.476755	-0.949801
-0.000636		-0.098507	-32.888255	
1.00000		-1.877763	-84.476755	-0.949801
-0.000636		-0.340612	-18.662338	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		12.253829	34.885554	1.079682
0.003159		1.170251	66.791205	
0.57748		12.253829	34.885554	1.079682
0.003159		0.737369	53.238690	
0.71832		12.253829	34.885554	1.079682
0.003159		0.266626	44.671511	
0.85916		12.253829	34.885554	1.079682
0.003159		0.261555	51.508834	
1.00000		12.253829	34.885554	1.079682
0.003159		0.873416	81.803212	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-4.563637	-127.225957	-1.463730
-0.003344		-1.563828	-155.966784	
0.57748		-4.563637	-127.225957	-1.463730
-0.003344		-0.969600	-103.616057	
0.71832		-4.563637	-127.225957	-1.463730
-0.003344		-0.354254	-58.584469	
0.85916		-4.563637	-127.225957	-1.463730
-0.003344		-0.191068	-27.563867	
1.00000		-4.563637	-127.225957	-1.463730
-0.003344		-0.641066	-18.087548	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3296

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		6.235618	3.334661	0.190944
0.000681		0.205882	4.509437	
0.57748		6.235618	3.334661	0.190944
0.000681		0.125671	3.160814	
0.71832		6.235618	3.334661	0.190944
0.000681		0.045504	1.891446	
0.85916		6.235618	3.334661	0.190944
0.000681		0.077155	2.110284	
1.00000		6.235618	3.334661	0.190944
0.000681		0.253759	7.953158	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-0.163402	-39.315843	-0.419403
-8.49E-05		-0.449211	-71.725646	
0.57748		-0.163402	-39.315843	-0.419403
-8.49E-05		-0.273116	-55.463066	
0.71832 -0.163402 -39.315843 -0.419403
-8.49E-05 -0.096351 -39.672155
0.85916 -0.163402 -39.315843 -0.419403
-8.49E-05 -0.034180 -25.682869
1.00000 -0.163402 -39.315843 -0.419403
-8.49E-05 -0.114522 -16.021228

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		9.474452	19.774569	0.683254
0.002929		0.738093	45.746983	
0.57748		9.474452	19.774569	0.683254
0.002929		0.451518	38.816825	
0.71832		9.474452	19.774569	0.683254
0.002929		0.166157	38.055150	
0.85916		9.474452	19.774569	0.683254
0.002929		0.199165	56.628879	
1.00000		9.474452	19.774569	0.683254
0.002929		0.629434	83.191439	

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-2.148292	-105.621837	-1.036998
-0.003587		-1.114842	-116.834481	
0.57748		-2.148292	-105.621837	-1.036998
-0.003587		-0.679898	-73.675096	
0.71832		-2.148292	-105.621837	-1.036998
-0.003587		-0.244383	-39.860968	
0.85916		-2.148292	-105.621837	-1.036998
-0.003587		-0.126351	-20.992678	
1.00000		-2.148292	-105.621837	-1.036998
-0.003587		-0.408143	-8.548707	

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		13.093057	21.554723	0.715840
0.003490		0.774797	45.903886	
0.57748		13.093057	21.554723	0.715840
0.003490		0.474658	38.067166	
0.71832		13.093057	21.554723	0.715840
0.003490		0.175518	35.761409	
0.85916		13.093057	21.554723	0.715840
0.003490		0.212773	51.144152	
1.00000		13.093057	21.554723	0.715840
0.003490		0.683356	81.279886	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-2.196609	-124.113803	-1.131890
-0.003653		-1.219013	-150.831772	
0.57748		-2.196609	-124.113803	-1.131890
-0.003653		-0.744297	-99.304809	
0.71832		-2.196609	-124.113803	-1.131890
-0.003653		-0.268358	-58.081979	
0.85916		-2.196609	-124.113803	-1.131890
-0.003653		-0.130454	-31.480361	
1.00000		-2.196609	-124.113803	-1.131890
-0.003653		-0.516018	-16.237078	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3297

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		11.733095	50.091485	1.326539
0.002744		1.436610	85.857808	
0.57748		11.733095	50.091485	1.326539
0.002744		0.880391	65.927755	
0.71832		11.733095	50.091485	1.326539
0.002744		0.324173	49.781908	
0.85916		11.733095	50.091485	1.326539
0.002744		0.311889	45.852777	
1.00000		11.733095	50.091485	1.326539
0.002744		1.046328	68.300017	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-6.365872	-117.375592	-1.755771
-0.003179		-1.899939	-149.091680	
0.57748		-6.365872	-117.375592	-1.755771
-0.003179		-1.163405	-100.674484	
0.71832		-6.365872	-117.375592	-1.755771
-0.003179		-0.425162	-58.469007	
0.85916		-6.365872	-117.375592	-1.755771
-0.003179		-0.234778	-26.920388	
1.00000		-6.365872	-117.375592	-1.755771
-0.003179		-0.788502	-20.712089	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		1.326349	70.740520	1.200507
0.000472		1.299911	95.009322	
0.57748		1.326349	70.740520	1.200507
0.000472		0.796619	65.538905	
0.71832		1.326349	70.740520	1.200507
0.000472		0.293089	36.254526	
0.85916		1.326349	70.740520	1.200507
0.000472		0.228023	8.307060	
1.00000		1.326349	70.740520	1.200507
0.000472		0.792693	3.266530	

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-8.584699	-10.383116	-1.344626
-0.001366		-1.661854	-99.752689	
0.57748		-8.584699	-10.383116	-1.344626
-0.001366		-0.897872	-17.578920	
0.71832		-8.584699	-10.383116	-1.344626
-0.001366		-0.333094	-13.565039	
0.85916		-8.584699	-10.383116	-1.344626
-0.001366		-0.210478	-10.716422	
1.00000		-8.584699	-10.383116	-1.344626
-0.001366		-0.713740	-27.687545	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		5.756095	86.668850	1.766354
0.003929		1.910517	135.028458	
0.57748		5.756095	86.668850	1.766354
0.003929		1.170071	100.116779	
0.71832		5.756095	86.668850	1.766354
0.003929		0.430740	72.470645	
0.85916		5.756095	86.668850	1.766354
0.003929		0.363803	70.414301	
1.00000		5.756095	86.668850	1.766354
0.003929		1.197413	93.119320	

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-11.065605	-96.846986	-2.005336
-0.006495		-2.173716	-84.647300	
0.57748		-11.065605	-96.846986	-2.005336
-0.006495		-1.332591	-45.346212	
0.71832		-11.065605	-96.846986	-2.005336
-0.006495		-0.491343	-17.645962	
0.85916		-11.065605	-96.846986	-2.005336
-0.006495		-0.318789	-9.469123	
1.00000		-11.065605	-96.846986	-2.005336
-0.006495		-1.052356	-25.634339	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3298

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		8.311069	81.636535	1.789552
0.003207		1.936426	126.879750	
0.57748		8.311069	81.636535	1.789552
0.003207		1.186184	93.866150	
0.71832		8.311069	81.636535	1.789552
0.003207		0.436869	66.840707	
0.85916		8.311069	81.636535	1.789552
0.003207		0.391344	60.747210	
1.00000		8.311069	81.636535	1.789552
0.003207		1.303652	80.499175	

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-10.151896	-104.717743	-2.185734
-0.004944		-2.366729	-110.902023	
0.57748		-10.151896	-104.717743	-2.185734
-0.004944		-1.449982	-68.020889	
0.71832		-10.151896	-104.717743	-2.185734
-0.004944		-0.532032	-34.351822	
0.85916		-10.151896	-104.717743	-2.185734
-0.004944		-0.319790	-16.662733	
1.00000		-10.151896	-104.717743	-2.185734
-0.004944		-1.065304	-23.864483	

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		11.693459	70.927621	1.577920
0.003361		1.707429	109.706209	
0.57748		11.693459	70.927621	1.577920
0.003361		1.045837	81.001396	
0.71832		11.693459	70.927621	1.577920
0.003361		0.385218	57.295088	
0.85916		11.693459	70.927621	1.577920
0.003361		0.365834	50.855327	
1.00000		11.693459	70.927621	1.577920
0.003361		1.216522	71.198649	

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-8.661269	-115.021293	-2.037345
-0.004357		-2.204031	-143.211326	
0.57748		-8.661269	-115.021293	-2.037345
-0.004357		-1.344927	-95.891484	
0.71832		-8.661269	-115.021293	-2.037345
-0.004357		-0.493557	-57.043373	
0.85916		-8.661269	-115.021293	-2.037345
-0.004357		-0.282217	-31.843522	
1.00000		-8.661269	-115.021293	-2.037345
-0.004357		-0.939469	-31.197677	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		9.050161	59.321202	1.179795
0.004240		1.278034	102.115540	
0.57748		9.050161	59.321202	1.179795
0.004240		0.783308	78.222739	
0.71832		9.050161	59.321202	1.179795
0.004240		0.288571	59.162092	
0.85916		9.050161	59.321202	1.179795
0.004240		0.267348	65.982653	
1.00000		9.050161	59.321202	1.179795
0.004240		0.882973	83.472197	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-7.087371	-110.500513	-1.485142
-0.006123		-1.612857	-123.662449	
0.57748		-7.087371	-110.500213	-1.485142
-0.006123		-0.990099	-77.879261	
0.71832		-7.087371	-110.500213	-1.485142
-0.006123		-0.367420	-46.061758	
0.85916		-7.087371	-110.500213	-1.485142
-0.006123		-0.209291	-32.178595	
1.00000		-7.087371	-110.500213	-1.485142
-0.006123		-0.700868	-26.295901	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3299

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		13.093057	86.668850	1.789552
0.003929		1.936426	135.028458	
0.57748		13.093057	86.668850	1.789552
0.003929		1.186184	100.116779	
0.71832		13.093057	86.668850	1.789552
0.003929		0.436869	72.470645	
0.85916		13.093057	86.668850	1.789552
0.003929		0.391344	70.414301	
1.00000		13.093057	86.668850	1.789552
0.003929		1.303652	93.119320	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-11.065605	-127.225957	-2.185734
-0.006495		-2.366729	-155.966784	
0.57748		-11.065605	-127.225957	-2.185734
-0.006495		-1.449982	-103.616057	
0.71832		-11.065605	-127.225957	-2.185734
-0.006495		-0.532032	-62.782183	
0.85916		-11.065605	-127.225957	-2.185734
-0.006495		-0.319790	-38.172973	
1.00000		-11.065605	-127.225957	-2.185734
-0.006495		-1.065304	-31.197677	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		13.093057	86.668850	1.789552
0.004240		1.936426	135.028458	
0.57748		13.093057	86.668850	1.789552
0.004240		1.186184	100.116779	
0.71832		13.093057	86.668850	1.789552
0.004240		0.436869	72.470645	
0.85916		13.093057	86.668850	1.789552
0.004240		0.391344	70.414301	
1.00000		13.093057	86.668850	1.789552
0.004240		1.303652	93.119320	

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43663		-11.065605	-127.225957	-2.185734
-0.006495		-2.366729	-155.966784	
0.57748		-11.065605	-127.225957	-2.185734
-0.006495		-1.449982	-103.616057	
0.71832		-11.065605	-127.225957	-2.185734
-0.006495		-0.532032	-62.782183	
0.85916		-11.065605	-127.225957	-2.185734
-0.006495		-0.319790	-38.172973	
1.00000		-11.065605	-127.225957	-2.185734
-0.006495		-1.065304	-31.197677	

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 13.093057 86.668850 1.789552
0.004240 1.936426 135.028458
0.57748 13.093057 86.668850 1.789552
0.004240 1.186184 100.116779
0.71832 13.093057 86.668850 1.789552
0.004240 0.436869 72.470645
0.85916 13.093057 86.668850 1.789552
0.004240 0.391344 70.414301
1.00000 13.093057 86.668850 1.789552
0.004240 1.303652 93.119320

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -11.065605 -127.225957 -2.185734
-0.006495 -2.366729 -155.966784
0.57748 -11.065605 -127.225957 -2.185734
-0.006495 -1.449982 -103.616057
0.71832 -11.065605 -127.225957 -2.185734
-0.006495 -0.532032 -62.782183
0.85916 -11.065605 -127.225957 -2.185734
-0.006495 -0.319790 -38.172973
1.00000 -11.065605 -127.225957 -2.185734
-0.006495 -1.065304 -31.197677
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3300

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 311 ========== LENGTH = 2.977349

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.585919 2.965080 0.136129
0.000691 0.088038 7.734291
0.14084 2.585919 2.965080 0.136129
0.000691 0.030957 15.927789
0.28169 2.585919 2.965080 0.136129
0.000691 0.036037 24.198405
0.42253 2.585919 2.965080 0.136129
0.000691 0.112498 32.497388
0.56337 2.585919 2.965080 0.136129
0.000691 0.188917 40.810772

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.816926 -19.848453 -0.182217
-0.000357 -0.116732 -8.694824
0.14084 -0.816926 -19.848453 -0.182217
-0.000357 -0.040323 -7.743126
0.28169 -0.816926 -19.848453 -0.182217
-0.000357 -0.026323 -7.128328
0.42253 -0.816926 -19.848453 -0.182217
-0.000357 -0.083291 -6.789153
0.56337 -0.816926 -19.848453 -0.182217
-0.000357 -0.140362 -6.662383

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.113825 6.042196 0.230587
0.001390 0.153049 13.171611
0.14084 6.113825 6.042196 0.230587
0.001390 0.056446 27.554925
0.28169 6.113825 6.042196 0.230587
0.001390 0.072794 43.040972
0.42253 6.113825 6.042196 0.230587
0.001390 0.209179 59.354270
0.56337 6.113825 6.042196 0.230587
0.001390 0.345520 76.023061

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.611626 -40.212956 -0.325061
-0.000625 -0.200171 -26.294199
0.14084 -0.611626 -40.212956 -0.325061
-0.000625 -0.064146 -21.112417
0.28169 -0.611626 -40.212956 -0.325061
-0.000625 -0.044914 -16.820890
0.42253 -0.611626 -40.212956 -0.325061
-0.000625 -0.138330 -13.654834
0.56337 -0.611626 -40.212956 -0.325061
-0.000625 -0.234665 -12.191410

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.839954 19.538291 0.407212
0.001630 0.255253 26.617799
0.14084 6.839954 19.538291 0.407212
0.001630 0.084438 40.984786
0.28169 6.839954 19.538291 0.407212
0.001630 0.141669 57.347720
0.42253 6.839954 19.538291 0.407212
0.001630 0.394775 79.366065
0.56337 6.839954 19.538291 0.407212
0.001630 0.647831 101.948424

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.614676 -54.192183 -0.603400
-0.000445 -0.364270 -17.552137
0.14084 -1.614676 -54.192183 -0.603400
-0.000445 -0.111243 -14.933319
0.28169 -1.614676 -54.192183 -0.603400
-0.000445 -0.088209 -16.454817
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3301

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42253 -1.614676 -54.192183 -0.603400
-0.000445 -0.257084 -20.498284
0.56337 -1.614676 -54.192183 -0.603400
-0.000445 -0.427839 -25.423706

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.065392 57.625435 0.745570
0.004249 0.455783 78.308327
0.14084 7.065392 57.625435 0.745570
0.004249 0.143099 87.461740
0.28169 7.065392 57.625435 0.745570
0.004249 0.237504 98.252465
0.42253 7.065392 57.625435 0.745570
0.004249 0.659272 125.164404
0.56337 7.065392 57.625435 0.745570
0.004249 1.080991 156.761396

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.115070 -76.242313 -1.005664
-0.002860 -0.614689 -17.058076
0.14084 -5.115070 -76.242313 -1.005664
-0.002860 -0.196559 -18.942553
0.28169 -5.115070 -76.242313 -1.005664
-0.002860 -0.171123 -24.402890
0.42253 -5.115070 -76.242313 -1.005664
-0.002860 -0.482209 -32.952397
0.56337 -5.115070 -76.242313 -1.005664
-0.002860 -0.794863 -52.027716

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.865454 2.421545 0.125104
0.000628 0.079016 6.243094
0.14084 3.865454 2.421545 0.125104
0.000628 0.026570 12.507943
0.28169 3.865454 2.421545 0.125104
0.000628 0.054772 21.129767
0.42253 3.865454 2.421545 0.125104
0.000628 0.143804 31.001263
0.56337 3.865454 2.421545 0.125104
0.000628 0.232836 41.023993

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.131914 -24.365747 -0.212300
-8.73E-05 -0.123275 -17.239929
0.14084 -0.131914 -24.365747 -0.212300
-8.73E-05 -0.034359 -12.972134
0.28169 -0.131914 -24.365747 -0.212300
-8.73E-05 -0.028309 -10.387321
0.42253 -0.131914 -24.365747 -0.212300
-8.73E-05 -0.078382 -8.705488
0.56337 -0.131914 -24.365747 -0.212300
-8.73E-05 -0.130847 -7.635455

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.674922 61.730312 0.440745
0.004805 0.268149 79.692824
0.14084 4.674922 61.730212 0.440745
0.004805 0.083278 67.816184
0.28169 4.674922 61.730212 0.440745
0.004805 0.159312 58.106313
0.42253 4.674922 61.730212 0.440745
0.004805 0.429578 70.233283
0.56337 4.674922 61.730212 0.440745
0.004805 0.699847 88.846507

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.434430 -45.473125 -0.644523
-0.003124 -0.393211 -8.877019
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3302

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 -4.434430 -45.473125 -0.644523
-0.003124 -0.127896 -7.624958
0.28169 -4.434430 -45.473125 -0.644523
-0.003124 -0.103695 -10.739072
0.42253 -4.434430 -45.473125 -0.644523
-0.003124 -0.286402 -17.704346
0.56337 -4.434430 -45.473125 -0.644523
-0.003124 -0.471222 -38.943370

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.675522 57.650367 0.495524
0.004882 0.307018 76.744204
0.14084 6.675522 57.650367 0.495524
0.004882 0.099184 73.005534
0.28169 6.675522 57.650367 0.495524
0.004882 0.172603 71.237347
0.42253 6.675522 57.650367 0.495524
0.004882 0.473649 89.355396
0.56337 6.675522 57.650367 0.495524
0.004882 0.774635 113.150987

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.138871 -57.872126 -0.717777
-0.003083 -0.440145 -16.481043
0.14084 -4.138871 -57.872126 -0.717777
-0.003083 -0.143567 -14.298637
0.28169 -4.138871 -57.872126 -0.717777
-0.003083 -0.110080 -18.037080
0.42253 -4.138871 -57.872126 -0.717777
-0.003083 -0.316408 -21.088547
0.56337 -4.138871 -57.872126 -0.717777
-0.003083 -0.524200 -39.331098

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.941601 61.819846 0.911486
0.003676 0.554295 66.197537
0.14084 6.941601 61.819846 0.911486
0.003676 0.172023 76.357605
0.28169 6.941601 61.819846 0.911486
0.003676 0.287715 88.633848
0.42253 6.941601 61.819846 0.911486
0.003676 0.793049 114.971355
0.56337 6.941601 61.819846 0.911486
0.003676 1.298396 145.175202

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.923223 -72.819804 -1.205190
-0.002648 -0.730255 -18.926480
0.14084 -5.923223 -72.819804 -1.205190
-0.002648 -0.227766 -25.166646
0.28169 -5.923223 -72.819804 -1.205190
-0.002648 -0.211430 -34.992518
0.42253 -5.923223 -72.819804 -1.205190
-0.002648 -0.592431 -47.540438
0.56337 -5.923223 -72.819804 -1.205190
-0.002648 -0.974650 -68.983222

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.140041 42.963242 0.829274
0.000419 0.496783 2.206477
0.14084 1.140041 42.963242 0.829274
0.000419 0.149036 3.135515
0.28169 1.140041 42.963242 0.829274
0.000419 0.239358 4.317668
0.42253 1.140041 42.963242 0.829274
0.000419 0.662142 5.579185
0.56337 1.140041 42.963242 0.829274
0.000419 1.084967 6.954008
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3303

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.230726 -6.745270 -1.008317
-0.001157 -0.606350 -12.356943
0.14084 -5.230726 -6.745270 -1.008317
-0.001157 -0.183532 -29.606254
0.28169 -5.230726 -6.745270 -1.008317
-0.001157 -0.198713 -47.170376
0.42253 -5.230726 -6.745270 -1.008317
-0.001157 -0.546453 -64.979583
0.56337 -5.230726 -6.745270 -1.008317
-0.001157 -0.894198 -82.876893

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.158178 107.788793 1.195663
0.005267 0.716352 83.687880
0.14084 2.158178 107.788793 1.195663
0.005267 0.214963 63.211411
0.28169 2.158178 107.788793 1.195663
0.005267 0.351992 48.505702
0.42253 2.158178 107.788793 1.195663
0.005267 0.971967 53.560739
0.56337 2.158178 107.788793 1.195663
0.005267 1.592047 67.067391

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.267189 -33.457176 -1.478743
-0.004940 -0.902906 -13.188451
0.14084 -10.267189 -33.457176 -1.478743
-0.004940 -0.288780 -31.808382
0.28169 -10.267189 -33.457176 -1.478743
-0.004940 -0.286512 -51.401612
0.42253 -10.267189 -33.457176 -1.478743
-0.004940 -0.787808 -74.963958
0.56337 -10.267189 -33.457176 -1.478743
-0.004940 -1.289195 -115.486450

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.488338 92.323356 1.202288
0.004293 0.720620 68.078591
0.14084 4.488338 92.323356 1.202288
0.004293 0.216426 60.416228
0.28169 4.488338 92.323356 1.202288
0.004293 0.373376 56.730337
0.42253 4.488338 92.323356 1.202288
0.004293 1.025689 72.072226
0.56337 4.488338 92.323356 1.202288
0.004293 1.678100 92.586077

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.874516 -49.944605 -1.555832
-0.003662 -0.941580 -12.726612
0.14084 -8.874516 -49.944605 -1.555832
-0.003662 -0.288210 -29.786135
0.28169 -8.874516 -49.944605 -1.555832
-0.003662 -0.287787 -50.959424
0.42253 -8.874516 -49.944605 -1.555832
-0.003662 -0.791905 -75.006432
0.56337 -8.874516 -49.944605 -1.555832
-0.003662 -1.296069 -110.642568

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.349064 78.456615 1.081053
0.004024 0.654054 59.779047
0.14084 6.349064 78.456615 1.081053
0.004024 0.201589 59.511614
0.28169 6.349064 78.456615 1.081053
0.004024 0.337755 62.959735
0.42253 6.349064 78.456615 1.081053
0.004024 0.927753 82.119713
0.56337 6.349064 78.456615 1.081053
0.004024 1.517829 105.713097
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3304

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.514145 -57.262666 -1.407168
-0.003233 -0.850776 -22.246125
0.14084 -7.514145 -57.262666 -1.407168
-0.003233 -0.264161 -33.924023
0.28169 -7.514145 -57.262666 -1.407168
-0.003233 -0.254241 -49.175440
0.42253 -7.514145 -57.262666 -1.407168
-0.003233 -0.705086 -67.282636
0.56337 -7.514145 -57.262666 -1.407168
-0.003233 -1.158412 -95.746792

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.495007 5.834996 0.202702
0.000712 0.127799 11.148160
0.14084 4.495007 5.834996 0.202702
0.000712 0.044279 23.223817
0.28169 4.495007 5.834996 0.202702
0.000712 0.056939 35.911149
0.42253 4.495007 5.834996 0.202702
0.000712 0.172092 48.839829
0.56337 4.495007 5.834996 0.202702
0.000712 0.287200 61.917690

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.909929 -31.876928 -0.273967
-0.000322 -0.171375 -29.221069
0.14084 -0.909929 -31.876928 -0.273967
-0.000322 -0.056158 -9.650305
0.28169 -0.909929 -31.876928 -0.273967
-0.000322 -0.042350 -10.773520
0.42253 -0.909929 -31.876928 -0.273967
-0.000322 -0.127242 -12.225710
0.56337 -0.909929 -31.876928 -0.273967
-0.000322 -0.212428 -13.922093

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.551343 9.247575 0.360986
0.001357 0.228337 17.001361
0.14084 10.551343 9.247575 0.360986
0.001357 0.077039 39.946823
0.28169 10.551343 9.247575 0.360986
0.001357 0.120829 65.026253
0.42253 10.551343 9.247575 0.360986
0.001357 0.726311 91.141248
0.56337 10.551343 9.247575 0.360986
0.001357 0.560986 118.204997

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.929940 -67.388651 -0.522975
-0.000514 -0.315493 -26.285388
0.14084 -0.929940 -67.388651 -0.522975
-0.000514 -0.095870 -22.329373
0.28169 -0.929940 -67.388651 -0.522975
-0.000514 -0.074993 -20.791454
0.42253 -0.929940 -67.388651 -0.522975
-0.000514 -0.225777 -21.180161
0.56337 -0.929940 -67.388651 -0.522975
-0.000514 -0.377297 -22.806152

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.263911 20.431715 0.672277
0.001563 0.412643 37.036660
0.14084 11.263911 20.431715 0.672277
0.001563 0.130783 64.186653
0.28169 11.263911 20.431715 0.672277
0.001563 0.222775 94.461796
0.42253 11.263911 20.431715 0.672277
0.001563 0.617736 127.650616
0.56337 11.263911 20.431715 0.672277
0.001563 1.012697 161.916753
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3305

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.849743 -84.167225 -0.937747
-0.000399 -0.559548 -18.666775
0.14084 -1.849743 -84.167225 -0.937747
-0.000399 -0.165210 -16.791514
0.28169 -1.849743 -84.167225 -0.937747
-0.000399 -0.151423 -20.682742
0.42253 -1.849743 -84.167225 -0.937747
-0.000399 -0.432981 -26.403020
0.56337 -1.849743 -84.167225 -0.937747
-0.000399 -0.715097 -32.803561

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.750202 58.497966 1.164384
0.003615 0.706204 81.852304
0.14084 10.750202 58.497966 1.164384
0.003615 0.219038 103.591451
0.28169 10.750202 58.497966 1.164384
0.003615 0.353868 128.432804
0.42253 10.750202 58.497966 1.164384
0.003615 0.982834 163.355717
0.56337 10.750202 58.497966 1.164384
0.003615 1.610855 203.900473

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.119522 -100.314523 -1.496341
-0.002128 -0.903677 -18.079461
0.14084 -6.119522 -100.314523 -1.496341
-0.002128 -0.277443 -22.206583
0.28169 -6.119522 -100.314523 -1.496341
-0.002128 -0.271528 -31.549423
0.42253 -6.119522 -100.314523 -1.496341
-0.002128 -0.758757 -44.026720
0.56337 -6.119522 -100.314523 -1.496341
-0.002128 -1.247048 -66.087295

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.210743 3.255979 0.222910
0.000609 0.136761 7.968806
0.14084 6.210743 3.255979 0.222910
0.000609 0.043969 20.002056
0.28169 6.210743 3.255979 0.222910
0.000609 0.088409 34.251573
0.42253 6.210743 3.255979 0.222910
0.000609 0.233714 49.264316
0.56337 6.210743 3.255979 0.222910
0.000609 0.378601 64.802900

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.169450 -38.912959 -0.344796
-6.73E-05 -0.199341 -16.021565
0.14084 -0.169450 -38.912959 -0.344796
-6.73E-05 -0.054391 -11.907254
0.28169 -0.169450 -38.912959 -0.344796
-6.73E-05 -0.050138 -9.711436
0.42253 -0.169450 -38.912959 -0.344796
-6.73E-05 -0.143316 -9.109178
0.56337 -0.169450 -38.912959 -0.344796
-6.73E-05 -0.236897 -9.141003

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.119862 55.762525 0.725203
0.004283 0.438807 83.250616
0.14084 7.119862 55.762525 0.725203
0.004283 0.136171 83.539046
0.28169 7.119862 55.762525 0.725203
0.004283 0.237603 86.289291
0.42253 7.119862 55.762525 0.725203
0.004283 0.646905 103.643304
0.56337 7.119862 55.762525 0.725203
0.004283 1.055665 128.882217
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3306

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.461871 -63.936905 -0.974300
-0.002384 -0.587314 -8.543398
0.14084 -4.461871 -63.936905 -0.974300
-0.002384 -0.181722 -7.181038
0.28169 -4.461871 -63.936905 -0.974300
-0.002384 -0.171233 -10.610235
0.42253 -4.461871 -63.936905 -0.974300
-0.002384 -0.474002 -17.723563
0.56337 -4.461871 -63.936905 -0.974300
-0.002384 -0.777946 -39.219919

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.952532 54.121874 0.797223
0.004420 0.487235 81.342500
0.14084 10.952532 54.121874 0.797223
0.004420 0.154332 92.374956
0.28169 10.952532 54.121874 0.797223
0.004420 0.261439 106.126308
0.42253 10.952532 54.121874 0.797223
0.004420 0.726311 133.148440
0.56337 10.952532 54.121874 0.797223
0.004420 1.177633 167.395181

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.288322 -86.312044 -1.090515
-0.002388 -0.658981 -16.235262
0.14084 -4.288322 -86.312044 -1.090515
-0.002388 -0.204171 -14.952865
0.28169 -4.288322 -86.312044 -1.090515
-0.002388 -0.162894 -18.232539
0.42253 -4.288322 -86.312044 -1.090515
-0.002388 -0.516166 -24.852351
0.56337 -4.288322 -86.312044 -1.090515
-0.002388 -0.850248 -44.600543

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.505342	69.727922	1.403847
0.003159	0.848287	68.339174	
0.14084	10.505342	69.727922	1.403847
0.003159	0.260282	90.694776	
0.28169	10.505342	69.727922	1.403847
0.003159	0.424377	115.718286	
0.42253	10.505342	69.727922	1.403847
0.003159	1.172269	149.502258	
0.56337	10.505342	69.727922	1.403847
0.003159	1.918217	187.875429	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.690913	-95.022383	-1.778197
-0.002079	-1.068158	-20.692325	
0.14084	-7.690913	-95.022383	-1.778197
-0.002079	-0.323141	-32.604710	
0.28169	-7.690913	-95.022383	-1.778197
-0.002079	-0.330086	-48.931370	
0.42253	-7.690913	-95.022383	-1.778197
-0.002079	-0.917914	-67.715231	
0.56337	-7.690913	-95.022383	-1.778197
-0.002079	-1.506584	-94.581894	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.402300	70.992099	1.216999
0.000378	0.728957	3.258761	
0.14084	1.402300	70.992099	1.216999
0.000378	0.218099	5.494413	
0.28169	1.402300	70.992099	1.216999
0.000378	0.340487	7.856652	
0.42253	1.402300	70.992099	1.216999
0.000378	0.943346	10.599407	
0.56337	1.402300	70.992099	1.216999
0.000378	1.545269	14.568363	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3307
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.690063	-10.636535	-1.435190
-0.001232	-0.861165	-27.657808	
0.14084	-8.690063	-10.636535	-1.435190
-0.001232	-0.258479	-56.208202	
0.28169	-8.690063	-10.636535	-1.435190
-0.001232	-0.291740	-84.901580	
0.42253	-8.690063	-10.636535	-1.435190
-0.001232	-0.802162	-114.164479	
0.56337	-8.690063	-10.636535	-1.435190
-0.001232	-1.312395	-143.742556	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.558385	138.296793	1.785137
0.005332	1.070657	93.163149	
0.14084	2.558385	138.296793	1.785137
0.005332	0.324132	76.250084	
0.28169	2.558385	138.296793	1.785137
0.005332	0.500962	62.750127	
0.42253	2.558385	138.296793	1.785137
0.005332	1.391575	66.530529	
0.56337	2.558385	138.296793	1.785137
0.005332	2.281318	81.156532	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.490660	-38.594943	-2.121751
-0.004575	-1.290543	-25.595684	
0.14084	-14.490660	-38.594943	-2.121751
-0.004575	-0.404927	-55.582057	
0.28169	-14.490660	-38.594943	-2.121751
-0.004575	-0.426201	-87.044323	
0.42253	-14.490660	-38.594943	-2.121751
-0.004575	-1.175709	-123.920965	
0.56337	-14.490660	-38.594943	-2.121751
-0.004575	-1.923766	-180.420361	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.005514	118.808213	1.832258
0.004414	1.099277	80.544463	
0.14084	6.005514	118.808213	1.832258
0.004414	0.331953	80.370852	
0.28169	6.005514	118.808213	1.832258
0.004414	0.536794	83.366821	
0.42253	6.005514	118.808213	1.832258
0.004414	1.481334	100.914403	
0.56337	6.005514	118.808213	1.832258
0.004414	2.424569	125.993463	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.636664	-62.613326	-2.248618
-0.003533	-1.355358	-23.829148	
0.14084	-12.636664	-62.613326	-2.248618
-0.003533	-0.414460	-51.468893	
0.28169	-12.636664	-62.613326	-2.248618
-0.003533	-0.438836	-82.697307	
0.42253	-12.636664	-62.613326	-2.248618
-0.003533	-1.206171	-116.929851	
0.56337	-12.636664	-62.613326	-2.248618
-0.003533	-1.974184	-165.634007	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.765235	101.758169	1.647154
0.004144	0.993541	71.244960	
0.14084	9.765235	101.758169	1.647154
0.004144	0.303725	80.510885	
0.28169	9.765235	101.758169	1.647154
0.004144	0.492891	93.337961	
0.42253	9.765235	101.758169	1.647154
0.004144	1.358705	118.525316	
0.56337	9.765235	101.758169	1.647154
0.004144	2.224067	154.341925	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3308
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.720962	-79.877626	-2.060510
-0.003102	-1.239736	-31.169195	
0.14084	-10.720962	-79.877626	-2.060510
-0.003102	-0.377363	-52.026876	
0.28169	-10.720962	-79.877626	-2.060510
-0.003102	-0.389458	-76.940874	
0.42253	-10.720962	-79.877626	-2.060510
-0.003102	-1.079112	-104.934723	
0.56337	-10.720962	-79.877626	-2.060510
-0.003102	-1.769514	-145.272909	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.065392	107.788793	1.202288
0.005267	0.720620	83.687880	
0.14084	7.065392	107.788793	1.202288
0.005267	0.216426	87.461740	
0.28169	7.065392	107.788793	1.202288
0.005267	0.373376	98.252465	
0.42253	7.065392	107.788793	1.202288
0.005267	1.025689	125.164404	
0.56337	7.065392	107.788793	1.202288
0.005267	1.678100	156.761396	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.267189	-76.242313	-1.555832
-0.004940	-0.941580	-26.243199	
0.14084	-10.267189	-76.242313	-1.555832
-0.004940	-0.293210	-33.924023	
0.28169	-10.267189	-76.242313	-1.555832
-0.004940	-0.287787	-51.401612	
0.42253	-10.267189	-76.242313	-1.555832
-0.004940	0.791905	-75.006432	
0.56337	-10.267189	-76.242313	-1.555832
-0.004940	-1.296069	-115.486450	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.263911	138.296793	1.832258
0.005332	1.099277	93.163149	
0.14084	11.263911	138.296793	1.832258
0.005332	0.331953	103.591451	
0.28169	11.263911	138.296793	1.832258
0.005332	0.536794	128.432804	
0.42253	11.263911	138.296793	1.832258
0.005332	1.481334	163.355717	
0.56337	11.263911	138.296793	1.832258
0.005332	2.424569	203.900473	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.490660	-100.314523	-2.248618
-0.004575	-1.355358	-31.169195	
0.14084	-14.490660	-100.314523	-2.248618
-0.004575	-0.414460	-56.208202	
0.28169	-14.490660	-100.314523	-2.248618
-0.004575	-0.438836	-87.044323	
0.42253	-14.490660	-100.314523	-2.248618
-0.004575	-1.206171	-123.920965	
0.56337	-14.490660	-100.314523	-2.248618
-0.004575	-1.974184	-180.420361	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.263911	138.296793	1.832258
0.005332	1.099277	93.163149	
0.14084	11.263911	138.296793	1.832258
0.005332	0.331953	103.591451	
0.28169	11.263911	138.296793	1.832258
0.005332	0.536794	128.432804	
0.42253	11.263911	138.296793	1.832258
0.005332	1.481334	163.355717	
0.56337	11.263911	138.296793	1.832258
0.005332	2.424569	203.900473	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3309
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.490660	-100.314523	-2.248618
-0.004940	-1.355358	-31.169195	
0.14084	-14.490660	-100.314523	-2.248618
-0.004940	-0.414460	-56.208202	
0.28169	-14.490660	-100.314523	-2.248618
-0.004940	-0.438836	-87.044323	
0.42253	-14.490660	-100.314523	-2.248618
-0.004940	-1.206171	-123.920965	
0.56337	-14.490660	-100.314523	-2.248618
-0.004940	-1.974184	-180.420361	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.263911	138.296793	1.832258
0.005332	1.099277	93.163149	
0.14084	11.263911	138.296793	1.832258
0.005332	0.331953	103.591451	
0.28169	11.263911	138.296793	1.832258
0.005332	0.536794	128.432804	
0.42253	11.263911	138.296793	1.832258
0.005332	1.481334	163.355717	
0.56337	11.263911	138.296793	1.832258
0.005332	2.424569	203.900473	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.490660	-100.314523	-2.248618
-0.004940	-1.355358	-31.169195	
0.14084	-14.490660	-100.314523	-2.248618
-0.004940	-0.414460	-56.208202	
0.28169	-14.490660	-100.314523	-2.248618
-0.004940	-0.438836	-87.044323	
0.42253	-14.490660	-100.314523	-2.248618
-0.004940	-1.206171	-123.920965	
0.56337	-14.490660	-100.314523	-2.248618
-0.004940	-1.974184	-180.420361	

ELEM 312 ========== LENGTH = 2.977992

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	2.696903	2.398163	0.096878
0.001200	0.112640	3.042511	
0.57740	2.696903	2.398163	0.096878
0.001200	0.071999	2.272345	
0.71827	2.696903	2.398163	0.096878
0.001200	0.031331	3.481879	
0.85913	2.696903	2.398163	0.096878
0.001200	0.024967	6.040099	
1.00000	2.696903	2.398163	0.096878
0.001200	0.111252	10.878313	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-1.030714	-16.898639	-0.205576
-0.000156	-0.233710	-22.278601	
0.57740	-1.030714	-16.898639	-0.205576
-0.000156	-0.147457	-22.672333	
0.71827	-1.030714	-16.898639	-0.205576
-0.000156	-0.061243	-23.143989	
0.85913	-1.030714	-16.898639	-0.205576
-0.000156	-0.013202	-23.680600	
1.00000	-1.030714	-16.898639	-0.205576
-0.000156	-0.053530	-24.281856	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	3.724223	10.782203	0.184227
0.002208	0.205661	11.717719	
0.57740	3.724223	10.782203	0.184227
0.002208	0.128354	8.117745	
0.71827	3.724223	10.782203	0.184227
0.002208	0.053415	6.023378	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3310
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.85913	3.724223	10.782203	0.184227
0.002208	0.054079	8.723029	
1.00000	3.724223	10.782203	0.184227
0.002208	0.223033	17.260484	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-4.461056	-33.408546	-0.403194
-0.000316	-0.453804	-47.336209	
0.57740	-4.461056	-33.408546	-0.403194
-0.000316	-0.284828	-44.119823	
0.71827	-4.461056	-33.408546	-0.403194
-0.000316	-0.115865	-43.484592	
0.85913	-4.461056	-33.408546	-0.403194
-0.000316	-0.026241	-43.864407	
1.00000	-4.461056	-33.408546	-0.403194
-0.000316	-0.103345	-45.127160	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	3.811468	53.573685	0.264772
0.001834	0.295723	114.314147	
0.57740	3.811468	53.573685	0.264772
0.001834	0.184592	92.412089	
0.71827	3.811468	53.573685	0.264772
0.001834	0.075347	71.414506	
0.85913	3.811468	53.573685	0.264772
0.001834	0.027218	54.764297	
1.00000	3.811468	53.573685	0.264772
0.001834	0.378257	43.957495	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-7.307661	-39.097043	-0.682961
-0.000137	-0.767744	-60.261473	
0.57740	-7.307661	-39.097043	-0.682961
-0.000137	-0.481238	-53.341518	
0.71827	-7.307661	-39.097043	-0.682961
-0.000137	-0.194741	-47.701064	
0.85913	-7.307661	-39.097043	-0.682961
-0.000137	-0.037072	-42.186443	
1.00000	-7.307661	-39.097043	-0.682961
-0.000137	-0.148374	-37.120868	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	9.026590	54.991320	0.544731
0.004833	0.608860	117.891992	
0.57740	9.026590	54.991320	0.544731
0.004833	0.380298	96.252520	
0.71827	9.026590	54.991320	0.544731
0.004833	0.153305	81.128132	
0.85913	9.026590	54.991320	0.544731
0.004833	0.151442	84.825673	
1.00000	9.026590	54.991320	0.544731
0.004833	0.581262	104.132891	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-7.096108	-107.073517	-1.025839
-0.003935	-1.145712	-108.432931	
0.57740	-7.096108	-107.073517	-1.025839
-0.003935	-0.718696	-73.081925	
0.71827	-7.096108	-107.073517	-1.025839
-0.003935	-0.291837	-50.577623	
0.85913	-7.096108	-107.073517	-1.025839
-0.003935	-0.084139	-35.558241	
1.00000	-7.096108	-107.073517	-1.025839
-0.003935	-0.305041	-34.388220	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.857898	20.100448	0.107664
0.000772	0.210052	32.187152	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3311
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.57740	0.857898	20.100448	0.107664
0.000772	0.074849	24.362707	
0.71827	0.857898	20.100448	0.107664
0.000772	0.029651	17.259033	
0.85913	0.857898	20.100448	0.107664
0.000772	0.037640	12.004610	
1.00000	0.857898	20.100448	0.107664
0.000772	0.148368	9.611482	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-4.410170	-16.755131	-0.263944
-1.25E-05	-0.294546	-20.988811	
0.57740	-4.410170	-16.755131	-0.263944
-1.25E-05	-0.183829	-25.285452	
0.71827	-4.410170	-16.755131	-0.263944
-1.25E-05	-0.073097	-21.232696	
0.85913	-4.410170	-16.755131	-0.263944
-1.25E-05	-0.015291	-17.574268	
1.00000	-4.410170	-16.755131	-0.263944
-1.25E-05	-0.060558	-14.870784	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	5.300477	60.406950	0.290129
0.005147	0.324321	138.018458	
0.57740	5.300477	60.406950	0.290129
0.005147	0.202571	113.850871	
0.71827	5.300477	60.406950	0.290129
0.005147	0.080723	97.543215	
0.85913	5.300477	60.406950	0.290129
0.005147	0.116669	100.265577	
1.00000	5.300477	60.406950	0.290129
0.005147	0.409102	106.346326	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-6.782657	-81.111164	-0.698181
-0.004460	-0.770011	-69.080819	
0.57740	-6.782657	-81.111164	-0.698181
-0.004460	-0.481687	-38.500687	
0.71827	-6.782657	-81.111164	-0.698181
-0.004460	-0.193415	-25.510378	
0.85913	-6.782657	-81.111164	-0.698181
-0.004460	-0.051258	-18.568787	
1.00000	-6.782657	-81.111164	-0.698181
-0.004460	-0.162409	-12.759103	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	6.385588	56.180995	0.339763
0.005584	0.379690	125.688193	
0.57740	6.385588	56.180995	0.339763
0.005584	0.237112	103.621131	
0.71827	6.385588	56.180995	0.339763
0.005584	0.094409	88.567845	
0.85913	6.385588	56.180995	0.339763
0.005584	0.126397	91.174352	
1.00000	6.385588	56.180995	0.339763
0.005584	0.460222	102.272222	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-7.733329	-86.868766	-0.796621
-0.004031	-0.883336	-79.940035	
0.57740	-7.733329	-86.868766	-0.796621
-0.004031	-0.553279	-53.061386	
0.71827	-7.733329	-86.868766	-0.796621
-0.004031	-0.223238	-41.798887	
0.85913	-7.733329	-86.868766	-0.796621
-0.004031	-0.057155	-36.011771	
1.00000	-7.733329	-86.868766	-0.796621
-0.004031	-0.190282	-31.254019	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3312
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	9.072718	62.431375	0.691633
0.003910	0.772903	126.013740	
0.57740	9.072718	62.431375	0.691633
0.003910	0.482724	101.316546	
0.71827	9.072718	62.431375	0.691633
0.003910	0.192481	81.592534	
0.85913	9.072718	62.431375	0.691633
0.003910	0.170719	75.333492	
1.00000	9.072718	62.431375	0.691633
0.003910	0.668881	88.252391	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-7.953483	-106.595096	-1.188800
-0.003591	-1.330731	-121.815820	
0.57740	-7.953483	-106.595096	-1.188800
-0.003591	-0.834753	-84.708691	
0.71827	-7.953483	-106.595096	-1.188800
-0.003591	-0.338815	-58.031734	
0.85913	-7.953483	-106.595096	-1.188800
-0.003591	-0.103508	-34.951874	
1.00000	-7.953483	-106.595096	-1.188800
-0.003591	-0.387546	-31.883683	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	5.361233	31.011933	0.685072
7.22E-06	0.765596	43.192120	
0.57740	5.361233	31.011933	0.685072
7.22E-06	0.478209	30.296174	
0.71827	5.361233	31.011933	0.685072
7.22E-06	0.190823	17.551975	
0.85913	5.361233	31.011933	0.685072
7.22E-06	0.113630	5.503522	
1.00000	5.361233	31.011933	0.685072
7.22E-06	0.479132	2.863907	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-3.049464	-40.775311	-0.872259
-0.001446	-0.984815	-80.896495	
0.57740	-3.049464	-40.775311	-0.872259
-0.001446	-0.618910	-63.844065	
0.71827	-3.049464	-40.775311	-0.872259
-0.001446	-0.253207	-46.817212	
0.85913	-3.049464	-40.775311	-0.872259
-0.001446	-0.096666	-29.805803	
1.00000	-3.049464	-40.775311	-0.872259
-0.001446	-0.383979	-13.450039	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	11.823423	54.678682	0.958019
0.005530	1.071148	108.894502	
0.57740	11.823423	54.678682	0.958019
0.005530	0.669263	87.130928	
0.71827	11.823423	54.678682	0.958019
0.005530	0.267372	74.876760	
0.85913	11.823423	54.678682	0.958019
0.005530	0.198892	84.798717	
1.00000	11.823423	54.678682	0.958019
0.005530	0.753948	103.537919	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-4.433974	-127.267268	-1.325751
-0.007116	-1.480043	-132.942651	
0.57740	-4.433974	-127.267268	-1.325751
-0.007116	-0.929548	-82.369902	
0.71827	-4.433974	-127.267268	-1.325751
-0.007116	-0.379179	-51.596125	
0.85913	-4.433974	-127.267268	-1.325751
-0.007116	-0.147643	-28.079432	
1.00000	-4.433974	-127.267268	-1.325751
-0.007116	-0.536465	-13.953731	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3313
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	10.113627	80.476900	0.924285
0.004083	1.033112	160.741375	
0.57740	10.113627	80.476900	0.924285
0.004083	0.645335	127.940776	
0.71827	10.113627	80.476900	0.924285
0.004083	0.257498	101.646828	
0.85913	10.113627	80.476900	0.924285
0.004083	0.208747	91.808572	
1.00000	10.113627	80.476900	0.924285
0.004083	0.813416	91.339685	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-7.817975	-114.391054	-1.443486
-0.005201	-1.615180	-139.174531	
0.57740	-7.817975	-114.391054	-1.443486
-0.005201	-1.013561	-93.208638	
0.71827	-7.817975	-114.391054	-1.443486
-0.005201	-0.412020	-60.901111	
0.85913	-7.817975	-114.391054	-1.443486
-0.005201	-0.138965	-33.657592	
1.00000	-7.817975	-114.391054	-1.443486
-0.005201	-0.517810	-15.245731	

COMB DB-G3-4 ---------- MAX

```
REL DIST          P          V2          V3
         T         M2         M3
0.43654    9.512088   70.727391    0.838144
 0.004113   0.936635  136.141439
0.57740    9.512088   70.727391    0.838144
 0.004113   0.584971  107.869824
0.71827    9.512088   70.727391    0.838144
 0.004113   0.233222   85.269187
0.85913    9.512088   70.727391    0.838144
 0.004113   0.194780   76.850616
1.00000    9.512088   70.727391    0.838144
 0.004113   0.762632   79.877213

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -8.715282 -106.932722   -1.355369
-0.004311  -1.516994 -133.287295
0.57740   -8.715282 -106.932722   -1.355369
-0.004311  -0.951671  -94.625693
0.71827   -8.715282 -106.932722   -1.355369
-0.004311  -0.386398  -68.199324
0.85913   -8.715282 -106.932722   -1.355369
-0.004311  -0.125307  -45.955592
1.00000   -8.715282 -106.932722   -1.355369
-0.004311  -0.469708  -31.141219

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    4.778997   4.914501    0.168770
0.001290   0.192794   5.827505
0.57740    4.778997   4.914501    0.168770
0.001290   0.121815   4.784094
0.71827    4.778997   4.914501    0.168770
0.001290   0.051264   4.295052
0.85913    4.778997   4.914501    0.168770
0.001290   0.042136   7.433989
1.00000    4.778997   4.914501    0.168770
0.001290   0.179151  14.614460

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -1.150608  -23.710481   -0.325723
-0.000147  -0.366155  -42.826405
0.57740   -1.150608  -23.710481   -0.325723
-0.000147  -0.229468  -36.178993
0.71827   -1.150608  -23.710481   -0.325723
-0.000147  -0.091903  -29.878150
0.85913   -1.150608  -23.710481   -0.325723
-0.000147  -0.020897  -26.925850
1.00000   -1.150608  -23.710481   -0.325723
-0.000147  -0.090507  -27.014150
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    3314

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    6.007426   13.925189    0.292899
 0.002221   0.331692  14.717191
0.57740    6.007426   13.925189    0.292899
 0.002221   0.208611   9.980336
0.71827    6.007426   13.925189    0.292899
 0.002221   0.085899   6.867406
0.85913    6.007426   13.925189    0.292899
 0.002221   0.093688   9.605096
1.00000    6.007426   13.925189    0.292899
 0.002221   0.379337  21.071719

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -4.247649  -45.019269   -0.679743
-0.000256  -0.759940  -83.295915
0.57740   -4.247649  -45.019269   -0.679743
-0.000256  -0.474522  -69.714111
0.71827   -4.247649  -45.019269   -0.679743
-0.000256  -0.187405  -57.100227
0.85913   -4.247649  -45.019269   -0.679743
-0.000256  -0.099203  -48.970479
1.00000   -4.247649  -45.019269   -0.679743
-0.000256  -0.161839  -47.443664

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    6.017832   49.061930    0.502666
 0.001889   0.565563  107.717746
0.57740    6.017832   49.061930    0.502666
 0.001889   0.354566   89.124808
0.71827    6.017832   49.061930    0.502666
 0.001889   0.143677   71.971634
0.85913    6.017832   49.061930    0.502666
 0.001889   0.148275   58.758006
1.00000    6.017832   49.061930    0.502666
 0.001889   0.603473   54.632286

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -6.492067  -52.249535   -1.081939
-0.000145  -1.209588  -90.855558
0.57740   -6.492067  -52.249535   -1.081939
-0.000145  -0.755186  -74.283365
0.71827   -6.492067  -52.249535   -1.081939
-0.000145  -0.299032  -58.177695
0.85913   -6.492067  -52.249535   -1.081939
-0.000145  -0.068259  -45.670545
1.00000   -6.492067  -52.249535   -1.081939
-0.000145  -0.279629  -39.516495

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    9.959774   54.906294    0.916023
 0.004125   1.026845  120.052536
0.57740    9.959774   54.906294    0.916023
 0.004125   0.642764   99.843574
0.71827    9.959774   54.906294    0.916023
 0.004125   0.258867   85.689315
0.85913    9.959774   54.906294    0.916023
 0.004125   0.221139   87.597909
1.00000    9.959774   54.906294    0.916023
 0.004125   0.866169  107.278996

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -6.953076 -106.355765   -1.535883
-0.003412  -1.715701 -126.819088
0.57740   -6.953076 -106.355765   -1.535883
-0.003412  -1.072857  -87.567277
0.71827   -6.953076 -106.355765   -1.535883
-0.003412  -0.428543  -57.997670
0.85913   -6.953076 -106.355765   -1.535883
-0.003412  -0.136786  -38.518692
1.00000   -6.953076 -106.355765   -1.535883
-0.003412  -0.513291  -36.600556
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    3315

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    0.931457   17.196603    0.170344
 0.000711   0.189616   28.143318
0.57740    0.931457   17.196603    0.170344
 0.000711   0.118105   21.777230
0.71827    0.931457   17.196603    0.170344
 0.000711   0.046380   15.820767
0.85913    0.931457   17.196603    0.170344
 0.000711   0.062518   10.912383
1.00000    0.931457   17.196603    0.170344
 0.000711   0.247646   10.415156

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -3.804020  -21.752640   -0.439287
-7.72E-06  -0.488586  -39.855224
0.57740   -3.804020  -21.752640   -0.439287
-7.72E-06  -0.304149  -31.877625
0.71827   -3.804020  -21.752640   -0.439287
-7.72E-06  -0.118964  -24.605645
0.85913   -3.804020  -21.752640   -0.439287
-7.72E-06  -0.024477  -17.820630
1.00000   -3.804020  -21.752640   -0.439287
-7.72E-06  -0.096055  -14.350961

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    4.953361   52.099814    0.536270
 0.004446   0.598059  127.408806
0.57740    4.953361   52.099814    0.536270
 0.004446   0.373454  108.141947
0.71827    4.953361   52.099814    0.536270
 0.004446   0.148857   96.357158
0.85913    4.953361   52.099814    0.536270
 0.004446   0.163291   99.522779
1.00000    4.953361   52.099814    0.536270
 0.004446   0.597900  107.251271

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -5.853362  -78.846890   -1.034630
-0.004132  -1.147557  -74.167590
0.57740   -5.853362  -78.846890   -1.034630
-0.004132  -0.716249  -44.097716
0.71827   -5.853362  -78.846890   -1.034630
-0.004132  -0.284078  -27.948645
0.85913   -5.853362  -78.846890   -1.034630
-0.004132  -0.091355  -18.271119
1.00000   -5.853362  -78.846890   -1.034630
-0.004132  -0.304229  -11.736440

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    7.229930   50.377092    0.602900
 0.005018   0.674064  117.872202
0.57740    7.229930   50.377092    0.602900
 0.005018   0.421499   99.644671
0.71827    7.229930   50.377092    0.602900
 0.005018   0.168714   88.136519
0.85913    7.229930   50.377092    0.602900
 0.005018   0.185277   91.194463
1.00000    7.229930   50.377092    0.602900
 0.005018   0.695683  105.102112

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -6.825326  -90.414921   -1.214463
-0.003740  -1.350201 -103.041137
0.57740   -6.825326  -90.414921   -1.214463
-0.003740  -0.843167  -70.368492
0.71827   -6.825326  -90.414921   -1.214463
-0.003740  -0.334518  -50.267060
0.85913   -6.825326  -90.414921   -1.214463
-0.003740  -0.097937  -37.010682
1.00000   -6.825326  -90.414921   -1.214463
-0.003740  -0.339837  -31.432428
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    3316

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    9.143517   63.887397    1.121119
 0.003366   1.253863  128.945687
0.57740    9.143517   63.887397    1.121119
 0.003366   0.783798  104.529016
0.71827    9.143517   63.887397    1.121119
 0.003366   0.313575   84.552575
0.85913    9.143517   63.887397    1.121119
 0.003366   0.250770   75.444421
1.00000    9.143517   63.887397    1.121119
 0.003366   0.995612   90.408303

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -8.245372 -104.803853   -1.772462
-0.003255  -1.982326 -133.168166
0.57740   -8.245372 -104.803853   -1.772462
-0.003255  -1.240124  -93.456399
0.71827   -8.245372 -104.803853   -1.772462
-0.003255  -0.496431  -61.454919
0.85913   -8.245372 -104.803853   -1.772462
-0.003255  -0.164839  -35.043385
1.00000   -8.245372 -104.803853   -1.772462
-0.003255  -0.628712  -33.039537

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    4.626463   43.721768    1.025136
 4.30E-06   1.146079   55.969188
0.57740    4.626463   43.721768    1.025136
 4.30E-06   0.716178   37.850232
0.71827    4.626463   43.721768    1.025136
 4.30E-06   0.286173   20.013357
0.85913    4.626463   43.721768    1.025136
 4.30E-06   0.165332    5.137306
1.00000    4.626463   43.721768    1.025136
 4.30E-06   0.692528    3.380928

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -5.047947  -36.144920   -1.255148
-0.001567  -1.412667  -71.014784
0.57740   -5.047947  -36.144920   -1.255148
-0.001567  -0.885974  -56.010373
0.71827   -5.047947  -36.144920   -1.255148
-0.001567  -0.359235  -41.212656
0.85913   -5.047947  -36.144920   -1.255148
-0.001567  -0.143804  -29.139541
1.00000   -5.047947  -36.144920   -1.255148
-0.001567  -0.574075  -27.005903

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654   10.821372   66.115240    1.477620
 0.005517   1.651023  121.543110
0.57740   10.821372   66.115240    1.477620
 0.005517   1.031996   95.781752
0.71827   10.821372   66.115240    1.477620
 0.005517   0.412737   80.522950
0.85913   10.821372   66.115240    1.477620
 0.005517   0.278750   88.027039
1.00000   10.821372   66.115240    1.477620
 0.005517   1.069389  110.363384

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -6.541054 -119.242169   -1.885674
-0.007601  -2.108994 -121.263351
0.57740   -6.541054 -119.242169   -1.885674
-0.007601  -1.322070  -73.000351
0.71827   -6.541054 -119.242169   -1.885674
-0.007601  -0.534883  -44.341364
0.85913   -6.541054 -119.242169   -1.885674
-0.007601  -0.229495  -26.916956
1.00000   -6.541054 -119.242169   -1.885674
-0.007601  -0.831867  -24.239560
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    3317

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    9.382168   83.204562    1.478647
 0.004225   1.651720  160.321762
0.57740    9.382168   83.204562    1.478647
 0.004225   1.032265  127.790334
0.71827    9.382168   83.204562    1.478647
 0.004225   0.412105  102.839285
0.85913    9.382168   83.204562    1.478647
 0.004225   0.299774   94.908281
1.00000    9.382168   83.204562    1.478647
 0.004225   1.174558  102.047389

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -8.958283 -112.162963   -2.083333
-0.005774  -2.330316 -129.116086
0.57740   -8.958283 -112.162963   -2.083333
-0.005774  -1.458953  -84.279023
0.71827   -8.958283 -112.162963   -2.083333
-0.005774  -0.586945  -53.643772
0.85913   -8.958283 -112.162963   -2.083333
-0.005774  -0.223705  -31.399127
1.00000   -8.958283 -112.162963   -2.083333
-0.005774  -0.831760  -23.400903

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654    9.459283   73.881828    1.331138
 0.004280   1.487485  137.110726
0.57740    9.459283   73.881828    1.331138
 0.004280   0.929773   98.661555
0.71827    9.459283   73.881828    1.331138
 0.004280   0.371370   86.624525
0.85913    9.459283   73.881828    1.331138
 0.004280   0.287594   79.522986
1.00000    9.459283   73.881828    1.331138
 0.004280   1.128913   89.875167

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -9.534445 -110.035787   -2.003811
-0.004797  -2.240529 -141.285317
0.57740   -9.534445 -110.035787   -2.003811
-0.004797  -1.402067  -98.981148
0.71827   -9.534445 -110.035787   -2.003811
-0.004797  -0.562437  -68.526951
0.85913   -9.534445 -110.035787   -2.003811
-0.004797  -0.200007  -45.498948
1.00000   -9.534445 -110.035787   -2.003811
-0.004797  -0.748149  -37.888060

COMB     DB ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654   11.823423   80.476900    0.958019
 0.005584   1.671148  160.704375
0.57740   11.823423   80.476900    0.958019
 0.005584   0.669263  127.940776
0.71827   11.823423   80.476900    0.958019
 0.005584   0.267372  101.646828
0.85913   11.823423   80.476900    0.958019
 0.005584   0.255847  100.226568
1.00000   11.823423   80.476900    0.958019
 0.005584   0.813416  106.346326

COMB     DB ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -8.715282 -127.267268   -1.443486
-0.007116  -1.615180 -139.174531
0.57740   -8.715282 -127.267268   -1.443486
-0.007116  -1.013561  -94.625693
0.71827   -8.715282 -127.267268   -1.443486
-0.007116  -0.412020  -68.199324
0.85913   -8.715282 -127.267268   -1.443486
-0.007116  -0.147643  -45.955592
1.00000   -8.715282 -127.267268   -1.443486
-0.007116  -0.536465  -45.127160
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    3318

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB     DL ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654   10.821372   83.204562    1.478647
 0.005517   1.651720  160.321762
0.57740   10.821372   83.204562    1.478647
 0.005517   1.032265  127.790334
0.71827   10.821372   83.204562    1.478647
 0.005517   0.412737  102.839285
0.85913   10.821372   83.204562    1.478647
 0.005517   0.299774   99.522779
1.00000   10.821372   83.204562    1.478647
 0.005517   1.174558  110.363384

COMB     DL ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -9.534445 -119.242169   -2.083333
-0.007601  -2.330316 -141.285317
0.57740   -9.534445 -119.242169   -2.083333
-0.007601  -1.458953  -98.981148
0.71827   -9.534445 -119.242169   -2.083333
-0.007601  -0.586945  -68.526951
0.85913   -9.534445 -119.242169   -2.083333
-0.007601  -0.229495  -48.970479
1.00000   -9.534445 -119.242169   -2.083333
-0.007601  -0.831867  -47.443664

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43654   11.823423   83.204562    1.478647
 0.005584   1.651720  160.741375
0.57740   11.823423   83.204562    1.478647
 0.005584   1.032265  127.940776
0.71827   11.823423   83.204562    1.478647
 0.005584   0.412737  102.839285
0.85913   11.823423   83.204562    1.478647
 0.005584   0.299774  100.265077
1.00000   11.823423   83.204562    1.478647
 0.005584   1.174558  110.363384

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43654   -9.534445 -127.267268   -2.083333
-0.007601  -2.330316 -141.285317
0.57740   -9.534445 -127.267268   -2.083333
-0.007601  -1.458953  -98.981148
0.71827   -9.534445 -127.267268   -2.083333
-0.007601  -0.586945  -68.526951
0.85913   -9.534445 -127.267268   -2.083333
-0.007601  -0.229495  -48.970479
1.00000   -9.534445 -127.267268   -2.083333
-0.007601  -0.831867  -47.443664
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    3319

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      313 ================= LENGTH
=     2.976994

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.668516   2.424431    0.145924
0.000767   0.089408  10.886445
0.14083    2.668516   2.424431    0.145924
0.000767   0.028472  17.523970
0.28166    2.668516   2.424431    0.145924
0.000767   0.060367  24.415077
0.42249    2.668516   2.424431    0.145924
0.000767   0.158529  31.358658
0.56332    2.668516   2.424431    0.145924
0.000767   0.256684  38.331344

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1.026839  -16.713135   -0.234138
-6.65E-06  -0.135954  -24.285254
0.14083   -1.026839  -16.713135   -0.234138
-6.65E-06  -0.037745  -24.923076
0.28166   -1.026839  -16.713135   -0.234138
-6.65E-06  -0.033304  -25.586463
0.42249   -1.026839  -16.713135   -0.234138
-6.65E-06  -0.094460  -26.270633
0.56332   -1.026839  -16.713135   -0.234138
-6.65E-06  -0.155639  -27.011751

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    3.573681   12.322789    0.233812
 0.001569   0.142878  17.285906
0.14083    3.573681   12.322789    0.233812
 0.001569   0.045890  27.647674
0.28166    3.573681   12.322789    0.233812
 0.001569   0.112175  38.939991
0.42249    3.573681   12.322789    0.233812
 0.001569   0.286518  51.293093
0.56332    3.573681   12.322789    0.233812
 0.001569   0.460852  64.172123

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.529777  -31.280554   -0.416341
-0.000179  -0.237569  -45.134031
0.14083   -4.529777  -31.280554   -0.416341
-0.000179  -0.063016  -47.125089
0.28166   -4.529777  -31.280554   -0.416341
-0.000179  -0.056463  -49.336043
0.42249   -4.529777  -31.280554   -0.416341
-0.000179  -0.154436  -52.355430
0.56332   -4.529777  -31.280554   -0.416341
-0.000179  -0.252459  -56.425037

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    3.770262   52.890379    0.308557
 0.001774   0.182898  43.961092
0.14083    3.770262   52.890379    0.308557
 0.001774   0.054507  46.036446
0.28166    3.770262   52.890379    0.308557
 0.001774   0.191199  55.040086
0.42249    3.770262   52.890379    0.308557
 0.001774   0.481366  65.644979
0.56332    3.770262   52.890379    0.308557
 0.001774   0.771507  76.804093

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -7.246011  -38.874911   -0.692074
-5.98E-06  -0.389187  -37.119417
0.14083   -7.246011  -38.874911   -0.692074
-5.98E-06  -0.098960  -36.220749
0.28166   -7.246011  -38.874911   -0.692074
-5.98E-06  -0.078342  -51.525290
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                  >
                                    3320

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.42249   -7.246011  -38.874911   -0.692074
-5.98E-06  -0.207735  -71.791038
0.56332   -7.246011  -38.874911   -0.692074
-5.98E-06  -0.337131  -93.125400

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    6.758252   89.297277    0.580914
```

0.004680	0.334094	104.336612	
0.14083	6.758252	89.297277	0.580914
0.004680	0.097276	104.360612	
0.28166	6.758252	89.297277	0.580914
0.004680	0.292847	109.066811	
0.42249	6.758252	89.297277	0.580914
0.004680	0.738517	127.061966	
0.56332	6.758252	89.297277	0.580914
0.004680	1.184273	151.366585	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.750266	-69.759225	-1.072753
-0.003713	-0.618962	-34.378018	
0.14083	-8.750266	-69.759225	-1.072753
-0.003713	-0.169541	-37.043472	
0.28166	-8.750266	-69.759225	-1.072753
-0.003713	-0.154725	-53.471047	
0.42249	-8.750266	-69.759225	-1.072753
-0.003713	-0.398298	-73.691743	
0.56332	-8.750266	-69.759225	-1.072753
-0.003713	-0.641873	-105.701867	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.849895	19.843946	0.104340
0.000708	0.060252	9.614502	
0.14083	0.849895	19.843946	0.104340
0.000708	0.016559	11.757801	
0.28166	0.849895	19.843946	0.104340
0.000708	0.070774	15.222963	
0.42249	0.849895	19.843946	0.104340
0.000708	0.173482	20.161908	
0.56332	0.849895	19.843946	0.104340
0.000708	0.276187	26.901653	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.386296	-16.671714	-0.244991
-9.11E-06	-0.134721	-14.871876	
0.14083	-4.386296	-16.671714	-0.244991
-9.11E-06	-0.032047	-18.552071	
0.28166	-4.386296	-16.671714	-0.244991
-9.11E-06	-0.029760	-24.520917	
0.42249	-4.386296	-16.671714	-0.244991
-9.11E-06	-0.073493	-31.736566	
0.56332	-4.386296	-16.671714	-0.244991
-9.11E-06	-0.117276	-39.401208	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.186303	107.390119	0.288527
0.005436	0.163353	106.625945	
0.14083	2.186303	107.390119	0.288527
0.005436	0.051184	79.667808	
0.28166	2.186303	107.390119	0.288527
0.005436	0.191728	60.014288	
0.42249	2.186303	107.390119	0.288527
0.005436	0.474928	56.025007	
0.56332	2.186303	107.390119	0.288527
0.005436	0.758182	61.890885	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.053099	-29.690014	-0.688670
-0.004647	-0.402517	-12.749528	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3321

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14083	-9.053099	-29.690014	-0.688670
-0.004647	-0.114355	-11.439208	
0.28166	-9.053099	-29.690014	-0.688670
-0.004647	-0.080768	-28.332679	
0.42249	-9.053099	-29.690014	-0.688670
-0.004647	-0.201835	-50.356572	
0.56332	-9.053099	-29.690014	-0.688670
-0.004647	-0.322635	-87.879417	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.565179	98.618958	0.361315
0.005529	0.210448	102.532217	
0.14083	3.565179	98.618958	0.361315
0.005529	0.066803	83.980945	
0.28166	3.565179	98.618958	0.361315
0.005529	0.780296	71.997890	
0.42249	3.565179	98.618958	0.361315
0.005529	0.551118	73.949007	
0.56332	3.565179	98.618958	0.361315
0.005529	0.881972	84.891447	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.776656	-40.321890	-0.800977
-0.004199	-0.466477	-31.248305	
0.14083	-9.776656	-40.321890	-0.800977
-0.004199	-0.131129	-30.591715	
0.28166	-9.776656	-40.321890	-0.800977
-0.004199	-0.094529	-46.808086	
0.42249	-9.776656	-40.321890	-0.800977
-0.004199	-0.245652	-67.072058	
0.56332	-9.776656	-40.321890	-0.800977
-0.004199	-0.397107	-101.832137	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.258644	90.182817	0.705974
0.003903	0.402750	88.411487	
0.14083	7.258644	90.182817	0.705974
0.003903	0.112242	94.495181	
0.28166	7.258644	90.182817	0.705974
0.003903	0.342259	106.155456	
0.42249	7.258644	90.182817	0.705974
0.003903	0.862179	127.376008	
0.56332	7.258644	90.182817	0.705974
0.003903	1.382115	154.534979	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.289798	-76.540817	-1.247906
-0.003415	-0.714067	-31.869140	
0.14083	-9.289798	-76.540817	-1.247906
-0.003415	-0.191286	-37.387241	
0.28166	-9.289798	-76.540817	-1.247906
-0.003415	-0.190905	-57.075319	
0.42249	-9.289798	-76.540817	-1.247906
-0.003415	-0.486574	-80.563095	
0.56332	-9.289798	-76.540817	-1.247906
-0.003415	-0.782531	-113.812426	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.401175	31.117784	0.679308
2.00E-05	0.381686	2.860483	
0.14083	5.401175	31.117784	0.679308
2.00E-05	0.096894	6.089520	
0.28166	5.401175	31.117784	0.679308
2.00E-05	0.262958	22.809261	
0.42249	5.401175	31.117784	0.679308
2.00E-05	0.667734	39.854900	
0.56332	5.401175	31.117784	0.679308
2.00E-05	1.072511	57.021590	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3322

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.066156	-41.205451	-0.965590
-0.001326	-0.546925	-13.462749	
0.14083	-3.066156	-41.205451	-0.965590
-0.001326	-0.142121	-23.723797	
0.28166	-3.066156	-41.205451	-0.965590
-0.001326	-0.187966	-35.916233	
0.42249	-3.066156	-41.205451	-0.965590
-0.001326	-0.472716	-48.685186	
0.56332	-3.066156	-41.205451	-0.965590
-0.001326	-0.757511	-61.621963	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.101119	112.693519	0.955780
0.005517	0.537537	103.878293	
0.14083	8.101119	112.693519	0.955780
0.005517	0.146442	89.411079	
0.28166	8.101119	112.693519	0.955780
0.005517	0.391022	84.622071	
0.42249	8.101119	112.693519	0.955780
0.005517	0.989196	96.127653	
0.56332	8.101119	112.693519	0.955780
0.005517	1.587454	123.192617	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.274066	-65.343346	-1.442802
-0.007098	-0.839169	-13.929910	
0.14083	-7.274066	-65.343346	-1.442802
-0.007098	-0.235178	-27.512930	
0.28166	-7.274066	-65.343346	-1.442802
-0.007098	-0.264061	-42.122647	
0.42249	-7.274066	-65.343346	-1.442802
-0.007098	-0.664756	-61.965417	
0.56332	-7.274066	-65.343346	-1.442802
-0.007098	-1.065447	-100.895629	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.562484	119.824509	0.917852
0.004414	0.514984	91.567750	
0.14083	7.562484	119.824509	0.917852
0.004414	0.137192	83.963461	
0.28166	7.562484	119.824509	0.917852
0.004414	0.421770	86.736664	
0.42249	7.562484	119.824509	0.917852
0.004414	1.061872	102.730027	
0.56332	7.562484	119.824509	0.917852
0.004414	1.702021	127.016342	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.730495	-72.035965	-1.537845
-0.005157	-0.881768	-15.221233	
0.14083	-9.730495	-72.035965	-1.537845
-0.005157	-0.237662	-25.055202	
0.28166	-9.730495	-72.035965	-1.537845
-0.005157	-0.254630	-52.485159	
0.42249	-9.730495	-72.035965	-1.537845
-0.005157	-0.639524	-83.610417	
0.56332	-9.730495	-72.035965	-1.537845
-0.005157	-1.024357	-127.983648	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.398122	103.171683	0.839890
0.004182	0.481594	80.071538	
0.14083	7.398122	103.171683	0.839890
0.004182	0.130596	78.412483	
0.28166	7.398122	103.171683	0.839890
0.004182	0.392237	85.684937	
0.42249	7.398122	103.171683	0.839890
0.004182	0.987794	104.046992	
0.56332	7.398122	103.171683	0.839890
0.004182	1.583387	129.214362	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3323

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.288106	-71.856589	-1.429640
-0.004274	-0.818168	-31.122894	
0.14083	-10.288106	-71.856589	-1.429640
-0.004274	-0.219301	-39.965141	
0.28166	-10.288106	-71.856589	-1.429640
-0.004274	-0.230900	-63.018347	
0.42249	-10.288106	-71.856589	-1.429640
-0.004274	-0.581482	-89.818816	
0.56332	-10.288106	-71.856589	-1.429640
-0.004274	-0.933622	-127.827475	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.735575	4.906877	0.217470
0.000791	0.129268	14.625586	
0.14083	4.735575	4.906877	0.217470
0.000791	0.037890	23.130784	
0.28166	4.735575	4.906877	0.217470
0.000791	0.090976	31.961772	
0.42249	4.735575	4.906877	0.217470
0.000791	0.235854	41.180911	
0.56332	4.735575	4.906877	0.217470
0.000791	0.380041	50.603198	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.137441	-23.471294	-0.343334
-3.87E-06	-0.195082	-27.020483	
0.14083	-1.137441	-23.471294	-0.343334
-3.87E-06	-0.051280	-27.704269	
0.28166	-1.137441	-23.471294	-0.343334
-3.87E-06	-0.053446	-28.618623	
0.42249	-1.137441	-23.471294	-0.343334
-3.87E-06	-0.144396	-29.948437	
0.56332	-1.137441	-23.471294	-0.343334
-3.87E-06	-0.235623	-31.539899	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.874091	14.686916	0.357822
0.001574	0.210852	21.093790	
0.14083	5.874091	14.686916	0.357822
0.001574	0.060888	35.658509	
0.28166	5.874091	14.686916	0.357822
0.001574	0.181117	51.513568	
0.42249	5.874091	14.686916	0.357822
0.001574	0.459103	68.550733	
0.56332	5.874091	14.686916	0.357822
0.001574	0.735061	86.118402	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.278855	-43.574692	-0.658212
-0.000107	-0.368028	-47.453894	
0.14083	-4.278855	-43.574692	-0.658212
-0.000107	-0.092350	-48.646870	
0.28166	-4.278855	-43.574692	-0.658212
-0.000107	-0.089590	-51.201283	
0.42249	-4.278855	-43.574692	-0.658212
-0.000107	-0.239458	-55.434891	
0.56332	-4.278855	-43.574692	-0.658212
-0.000107	-0.389463	-60.779165	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.962384	48.322841	0.562176
0.001747	0.323577	54.649298	
0.14083	5.962384	48.322841	0.562176
0.001747	0.087447	60.922831	
0.28166	5.962384	48.322841	0.562176
0.001747	0.292080	74.923140	
0.42249	5.962384	48.322841	0.562176
0.001747	0.732998	92.581554	
0.56332	5.962384	48.322841	0.562176
0.001747	1.173753	111.294448	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3324

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.443546	-51.943828	-1.045810
-8.10E-06	-0.580195	-39.520680	
0.14083	-6.443546	-51.943828	-1.045810
-8.10E-06	-0.140845	-39.107633	
0.28166	-6.443546	-51.943828	-1.045810
-8.10E-06	-0.147673	-51.234690	
0.42249	-6.443546	-51.943828	-1.045810
-8.10E-06	-0.383552	-69.286254	
0.56332	-6.443546	-51.943828	-1.045810
-8.10E-06	-0.619165	-88.329368	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.197068	80.793535	0.967136
0.004060	0.551900	107.314980	
0.14083	8.197068	80.793535	0.967136
0.004060	0.153349	113.012792	
0.28166	8.197068	80.793535	0.967136
0.004060	0.426539	125.422599	
0.42249	8.197068	80.793535	0.967136
0.004060	1.073505	148.384085	
0.56332	8.197068	80.793535	0.967136
0.004060	1.718411	177.701077	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.362216	-78.458553	-1.542797
-0.002918	-0.873514	-36.594115	
0.14083	-8.362216	-78.458553	-1.542797
-0.002918	-0.226149	-40.325035	
0.28166	-8.362216	-78.458553	-1.542797
-0.002918	-0.261026	-54.922793	
0.42249	-8.362216	-78.458553	-1.542797
-0.002918	-0.666472	-75.063388	
0.56332	-8.362216	-78.458553	-1.542797
-0.002918	-1.071774	-106.891129	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.909876	16.895067	0.175221
0.000700	0.098921	10.423065	
0.14083	0.909876	16.895067	0.175221
0.000700	0.025613	15.232870	
0.28166	0.909876	16.895067	0.175221
0.000700	0.113439	22.067879	
0.42249	0.909876	16.895067	0.175221
0.000700	0.278575	29.199544	
0.56332	0.909876	16.895067	0.175221
0.000700	0.442956	38.699942	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.788038	-21.638410	-0.391711
-5.35E-06	-0.213410	-14.353565	
0.14083	-3.788038	-21.638410	-0.391711
-5.35E-06	-0.048922	-16.855277	
0.28166	-3.788038	-21.638410	-0.391711
-5.35E-06	-0.047838	-21.686323	
0.42249	-3.788038	-21.638410	-0.391711
-5.35E-06	-0.121288	-27.624248	
0.56332	-3.788038	-21.638410	-0.391711
-5.35E-06	-0.194817	-34.122622	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.275190	91.643435	0.543067
0.004924	0.308219	107.301708	
0.14083	2.275190	91.643435	0.543067
0.004924	0.091910	86.291835	
0.28166	2.275190	91.643435	0.543067
0.004924	0.279126	73.961590	
0.42249	2.275190	91.643435	0.543067
0.004924	0.692375	75.580321	
0.56332	2.275190	91.643435	0.543067
0.004924	1.104446	86.313598	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3325

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.006990	-35.965516	-0.990343
-0.003942	-0.565066	-11.729444	
0.14083	-8.006990	-35.965516	-0.990343
-0.003942	-0.149465	-10.591166	
0.28166	-8.006990	-35.965516	-0.990343
-0.003942	-0.150303	-24.314325	
0.42249	-8.006990	-35.965516	-0.990343
-0.003942	-0.377773	-43.421664	
0.56332	-8.006990	-35.965516	-0.990343
-0.003942	-0.605287	-79.704234	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.780839	86.124775	0.642422
0.005106	0.369118	105.157564	
0.14083	4.780839	86.124775	0.642422
0.005106	0.110026	93.328758	
0.28166	4.780839	86.124775	0.642422
0.005106	0.327976	89.723972	
0.42249	4.780839	86.124775	0.642422
0.005106	0.818901	98.970918	
0.56332	4.780839	86.124775	0.642422
0.005106	1.307908	116.440228	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.759731	-51.485899	-1.173261
-0.003568	-0.667019	-31.431291	
0.14083	-8.759731	-51.485899	-1.173261
-0.003568	-0.174596	-30.974853	
0.28166	-8.759731	-51.485899	-1.173261
-0.003568	-0.172457	-44.680302	
0.42249	-8.759731	-51.485899	-1.173261
-0.003568	-0.441614	-63.093433	
0.56332	-8.759731	-51.485899	-1.173261
-0.003568	-0.710680	-97.087126	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.703687	85.344196	1.153693
0.003421	0.654111	90.432939	
0.14083	7.703687	85.344196	1.153693
0.003421	0.176702	100.298122	
0.28166	7.703687	85.344196	1.153693
0.003421	0.496472	117.518534	
0.42249	7.703687	85.344196	1.153693
0.003421	1.247578	143.392017	
0.56332	7.703687	85.344196	1.153693
0.003421	1.996836	174.473851	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.421552	-81.855057	-1.791059
-0.002860	-1.010146	-33.025422	
0.14083	-9.421552	-81.855057	-1.791059
-0.002860	-0.258144	-41.038010	
0.28166	-9.421552	-81.855057	-1.791059
-0.002860	-0.315126	-61.372223	
0.42249	-9.421552	-81.855057	-1.791059
-0.002860	-0.798659	-85.924436	
0.56332	-9.421552	-81.855057	-1.791059
-0.002860	-1.282148	-120.121944	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.667293	43.844831	1.022137
1.54E-05	0.573898	3.375494	
0.14083	4.667293	43.844831	1.022137
1.54E-05	0.145177	7.828197	
0.28166	4.667293	43.844831	1.022137
1.54E-05	0.368097	22.056648	
0.42249	4.667293	43.844831	1.022137
1.54E-05	0.932400	36.998832	
0.56332	4.667293	43.844831	1.022137
1.54E-05	1.496941	52.114892	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3326

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.080351	-36.521472	-1.345584
-0.001388	-0.758835	-27.001030	
0.14083	-5.080351	-36.521472	-1.345584
-0.001388	-0.193802	-38.925479	
0.28166	-5.080351	-36.521472	-1.345584
-0.001388	-0.283245	-56.027234	
0.42249	-5.080351	-36.521472	-1.345584
-0.001388	-0.711715	-74.021046	
0.56332	-5.080351	-36.521472	-1.345584
-0.001388	-1.140132	-92.225673	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.089451	123.210075	1.478560
0.005761	0.835002	110.410609	
0.14083	7.089451	123.210075	1.478560
0.005761	0.230795	95.561628	
0.28166	7.089451	123.210075	1.478560
0.005761	0.545860	87.678676	
0.42249	7.089451	123.210075	1.478560
0.005761	1.370959	97.150831	
0.56332	7.089451	123.210075	1.478560
0.005761	2.211846	119.464490	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.673008	-59.045419	-1.997425
-0.007082	-1.150604	-24.213177	
0.14083	-9.673008	-59.045419	-1.997425
-0.007082	-0.313356	-41.095783	
0.28166	-9.673008	-59.045419	-1.997425
-0.007082	-0.409139	-61.413693	
0.42249	-9.673008	-59.045419	-1.997425
-0.007082	-1.028782	-86.977955	
0.56332	-9.673008	-59.045419	-1.997425
-0.007082	-1.648280	-136.248514	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.698412	124.068294	1.477918
0.004698	0.832176	102.090418	
0.14083	6.698412	124.068294	1.477918
0.004698	0.223248	93.007948	
0.28166	6.698412	124.068294	1.477918
0.004698	0.593737	95.271686	
0.42249	6.698412	124.068294	1.477918
0.004698	1.492566	111.150440	
0.56332	6.698412	124.068294	1.477918
0.004698	2.390571	136.058786	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.205190	-68.843127	-2.149223
-0.005332	-1.221800	-23.376493	
0.14083	-11.205190	-68.843127	-2.149223
-0.005332	-0.319392	-37.275956	
0.28166	-11.205190	-68.843127	-2.149223
-0.005332	-0.410071	-66.549122	
0.42249	-11.205190	-68.843127	-2.149223
-0.005332	-1.029773	-99.185963	
0.56332	-11.205190	-68.843127	-2.149223
-0.005332	-1.648945	-149.139172	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.213845	107.655987	1.350854
0.004466	0.764233	89.918980	
0.14083	7.213845	107.655987	1.350854
0.004466	0.207063	88.531836	
0.28166	7.213845	107.655987	1.350854
0.004466	0.564492	97.030269	
0.42249	7.213845	107.655987	1.350854
0.004466	1.418259	117.036944	
0.56332	7.213845	107.655987	1.350854
0.004466	2.270867	144.618671	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3327

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.386104	-74.008607	-2.039540
-0.004429		-1.155966	-37.871899	
0.14083		-11.386104	-74.008607	-2.039540
-0.004429		-0.239889	-49.794718	
0.28166		-11.386104	-74.008607	-2.039540
-0.004429		-0.371152	-75.028712	
0.42249		-11.386104	-74.008607	-2.039540
-0.004429		-0.937330	-103.736222	
0.56332		-11.386104	-74.008607	-2.039540
-0.004429		-1.503384	-146.997067	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.101119	119.824509	0.955780
0.005529		0.537537	106.625945	
0.14083		8.101119	119.824509	0.955780
0.005529		0.146442	104.360612	
0.28166		8.101119	119.824509	0.955780
0.005529		0.421770	109.966811	
0.42249		8.101119	119.824509	0.955780
0.005529		1.061872	127.376008	
0.56332		8.101119	119.824509	0.955780
0.005529		1.702021	154.534979	

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-10.288106	-76.540817	-1.537845
-0.007098		-0.881768	-45.134031	
0.14083		-10.288106	-76.540817	-1.537845
-0.007098		-0.237662	-47.025089	
0.28166		-10.288106	-76.540817	-1.537845
-0.007098		-0.264061	-63.018347	
0.42249		-10.288106	-76.540817	-1.537845
-0.007098		-0.664756	-89.818816	
0.56332		-10.288106	-76.540817	-1.537845
-0.007098		-1.065447	-127.983648	

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.197068	124.068294	1.478560
0.005761		0.835002	110.419609	
0.14083		8.197068	124.068294	1.478560
0.005761		0.230795	113.012792	
0.28166		8.197068	124.068294	1.478560
0.005761		0.593737	125.422599	
0.42249		8.197068	124.068294	1.478560
0.005761		1.492566	148.384085	
0.56332		8.197068	124.068294	1.478560
0.005761		2.390571	177.701077	

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.386104	-81.855057	-2.149223
-0.007082		-1.221800	-47.453894	
0.14083		-11.386104	-81.855057	-2.149223
-0.007082		-0.319392	-49.794718	
0.28166		-11.386104	-81.855057	-2.149223
-0.007082		-0.410071	-75.028712	
0.42249		-11.386104	-81.855057	-2.149223
-0.007082		-1.029773	-103.736222	
0.56332		-11.386104	-81.855057	-2.149223
-0.007082		-1.648945	-149.139172	

COMB CAR ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.197068	124.068294	1.478560
0.005761		0.835002	110.419609	
0.14083		8.197068	124.068294	1.478560
0.005761		0.230795	113.012792	
0.28166		8.197068	124.068294	1.478560
0.005761		0.593737	125.422599	
0.42249		8.197068	124.068294	1.478560
0.005761		1.492566	148.384085	
0.56332		8.197068	124.068294	1.478560
0.005761		2.390571	177.701077	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3328

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.386104	-81.855057	-2.149223
-0.007098		-1.221800	-47.453894	
0.14083		-11.386104	-81.855057	-2.149223
-0.007098		-0.319392	-49.794718	
0.28166		-11.386104	-81.855057	-2.149223
-0.007098		-0.410071	-75.028712	
0.42249		-11.386104	-81.855057	-2.149223
-0.007098		-1.029773	-103.736222	
0.56332		-11.386104	-81.855057	-2.149223
-0.007098		-1.648945	-149.139172	

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		8.197068	124.068294	1.478560
0.005761		0.835002	110.419609	
0.14083		8.197068	124.068294	1.478560
0.005761		0.230795	113.012792	
0.28166		8.197068	124.068294	1.478560
0.005761		0.593737	125.422599	
0.42249		8.197068	124.068294	1.478560
0.005761		1.492566	148.384085	
0.56332		8.197068	124.068294	1.478560
0.005761		2.390571	177.701077	

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-11.386104	-81.855057	-2.149223
-0.007098		-1.221800	-47.453894	
0.14083		-11.386104	-81.855057	-2.149223
-0.007098		-0.319392	-49.794718	
0.28166		-11.386104	-81.855057	-2.149223
-0.007098		-0.410071	-75.028712	
0.42249		-11.386104	-81.855057	-2.149223
-0.007098		-1.029773	-103.736222	
0.56332		-11.386104	-81.855057	-2.149223
-0.007098		-1.648945	-149.139172	

ELEM 314 ========== LENGTH = 2.977713

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		1.641689	10.005901	0.157970
0.001135		0.179337	2.526344	
0.57743		1.641689	10.005901	0.157970
0.001135		0.113079	2.101232	
0.71829		1.641689	10.005901	0.157970
0.001135		0.046802	3.125478	
0.85914		1.641689	10.005901	0.157970
0.001135		0.040451	6.108643	
1.00000		1.641689	10.005901	0.157970
0.001135		0.166831	10.375799	

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-2.584083	-12.005522	-0.301086
-1.05E-05		-0.338306	-24.401756	
0.57743		-2.584083	-12.005522	-0.301086
-1.05E-05		-0.212024	-27.805177	
0.71829		-2.584083	-12.005522	-0.301086
-1.05E-05		-0.085747	-31.323164	
0.85914		-2.584083	-12.005522	-0.301086
-1.05E-05		-0.019462	-34.942220	
1.00000		-2.584083	-12.005522	-0.301086
-1.05E-05		-0.085690	-38.730803	

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		2.097684	29.420735	0.289250
0.002097		0.324911	23.949723	
0.57743		2.097684	29.420735	0.289250
0.002097		0.203596	17.086504	
0.71829		2.097684	29.420735	0.289250
0.002097		0.082281	11.853788	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3329

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.85914		2.097684	29.420735	0.289250
0.002097		0.071229	11.496416	
1.00000		2.097684	29.420735	0.289250
0.002097		0.287974	17.262523	

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-6.931724	-21.590096	-0.516611
-0.000219		-0.578772	-38.020114	
0.57743		-6.931724	-21.590096	-0.516611
-0.000219		-0.362163	-39.763472	
0.71829		-6.931724	-21.590096	-0.516611
-0.000219		-0.146011	-44.943111	
0.85914		-6.931724	-21.590096	-0.516611
-0.000219		-0.039385	-51.904153	
1.00000		-6.931724	-21.590096	-0.516611
-0.000219		-0.160348	-59.825206	

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		1.898976	80.464374	0.349749
0.001663		0.392881	155.723761	
0.57743		1.898976	80.464374	0.349749
0.001663		0.246132	127.047856	
0.71829		1.898976	80.464374	0.349749
0.001663		0.099373	99.260424	
0.85914		1.898976	80.464374	0.349749
0.001663		0.105805	75.001621	
1.00000		1.898976	80.464374	0.349749
0.001663		0.427909	55.640129	

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-10.307119	-20.880808	-0.767513
-6.58E-06		-0.859758	-40.613384	
0.57743		-10.307119	-20.880808	-0.767513
-6.58E-06		-0.537844	-41.529701	
0.71829		-10.307119	-20.880808	-0.767513
-6.58E-06		-0.215936	-44.384727	
0.85914		-10.307119	-20.880808	-0.767513
-6.58E-06		-0.047380	-48.363937	
1.00000		-10.307119	-20.880808	-0.767513
-6.58E-06		-0.193813	-52.486896	

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		8.131582	74.878012	0.563588
0.004802		0.631192	149.701663	
0.57743		8.131582	74.878012	0.563588
0.004802		0.394762	124.358116	
0.71829		8.131582	74.878012	0.563588
0.004802		0.158327	107.280673	
0.85914		8.131582	74.878012	0.563588
0.004802		0.161646	107.073517	
1.00000		8.131582	74.878012	0.563588
0.004802		0.612753	121.885874	

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-9.209691	-97.822603	-1.077194
-0.004134		-1.194912	-93.989269	
0.57743		-9.209691	-97.822603	-1.077194
-0.004134		-0.744482	-64.818295	
0.71829		-9.209691	-97.822603	-1.077194
-0.004134		-0.303015	-49.173125	
0.85914		-9.209691	-97.822603	-1.077194
-0.004134		-0.083827	-41.516523	
1.00000		-9.209691	-97.822603	-1.077194
-0.004134		-0.314279	-47.191103	

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		0.516502	33.146700	0.144057
0.000718		0.158447	56.860338	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3330

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57743		0.516502	33.146700	0.144057
0.000718		0.098032	43.627711	
0.71829		0.516502	33.146700	0.144057
0.000718		0.037617	30.730552	
0.85914		0.516502	33.146700	0.144057
0.000718		0.036329	18.804093	
1.00000		0.516502	33.146700	0.144057
0.000718		0.144900	12.591711	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-5.445089	-7.765714	-0.258860
-8.56E-05		-0.289470	-15.352863	
0.57743		-5.445089	-7.765714	-0.258860
-8.56E-05		-0.180899	-12.354716	
0.71829		-5.445089	-7.765714	-0.258860
-8.56E-05		-0.072317	-11.647278	
0.85914		-5.445089	-7.765714	-0.258860
-8.56E-05		-0.022802	-12.422528	
1.00000		-5.445089	-7.765714	-0.258860
-8.56E-05		-0.083213	-13.541063	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		4.547366	80.333787	0.289134
0.005191		0.322271	187.454260	
0.57743		4.547366	80.333787	0.289134
0.005191		0.200941	155.879310	
0.71829		4.547366	80.333787	0.289134
0.005191		0.079604	134.043984	
0.85914		4.547366	80.333787	0.289134
0.005191		0.116526	127.885210	
1.00000		4.547366	80.333787	0.289134
0.005191		0.404064	125.654926	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-8.222970	-67.125915	-0.687564
-0.004881		-0.749879	-40.305270	
0.57743		-8.222970	-67.125915	-0.687564
-0.004881		-0.463278	-17.481833	
0.71829		-8.222970	-67.125915	-0.687564
-0.004881		-0.188977	-13.066804	
0.85914		-8.222970	-67.125915	-0.687564
-0.004881		-0.049572	-12.894274	
1.00000		-8.222970	-67.125915	-0.687564
-0.004881		-0.162716	-13.307200	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		5.044931	81.811752	0.379202
0.005540		0.424549	168.539129	
0.57743		5.044931	81.811752	0.379202
0.005540		0.265447	140.457205	
0.71829		5.044931	81.811752	0.379202
0.005540		0.106323	121.121691	
0.85914		5.044931	81.811752	0.379202
0.005540		0.136234	117.637306	
1.00000		5.044931	81.811752	0.379202
0.005540		0.492430	119.397677	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-10.113162	-69.648556	-0.850934
-0.004411		-0.935562	-51.278125	
0.57743		-10.113162	-69.648556	-0.850934
-0.004411		-0.580358	-34.625131	
0.71829		-10.113162	-69.648556	-0.850934
-0.004411		-0.236078	-34.244469	
0.85914		-10.113162	-69.648556	-0.850934
-0.004411		-0.108890	-37.483556	
1.00000		-10.113162	-69.648556	-0.850934
-0.004411		-0.211554	-41.339317	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3331

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		9.314624	77.570357	0.674973
0.003866		0.754307	151.718236	
0.57743		9.314624	77.570357	0.674973
0.003866		0.471155	124.516833	
0.71829		9.314624	77.570357	0.674973
0.003866		0.188003	103.778165	
0.85914		9.314624	77.570357	0.674973
0.003866		0.173570	95.010027	
1.00000		9.314624	77.570357	0.674973
0.003866		0.673272	105.426120	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-9.327029	-104.109296	-1.192865
-0.003835		-1.328467	-115.158018	
0.57743		-9.327029	-104.109296	-1.192865
-0.003835		-0.829262	-81.144784	
0.71829		-9.327029	-104.109296	-1.192865
-0.003835		-0.337527	-58.083563	
0.85914		-9.327029	-104.109296	-1.192865
-0.003835		-0.099780	-37.548712	
1.00000		-9.327029	-104.109296	-1.192865
-0.003835		-0.378027	-39.855770	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		7.946399	17.919926	0.609766
7.37E-06		0.680206	22.978783	
0.57743		7.946399	17.919926	0.609766
7.37E-06		0.424453	15.666217	
0.71829		7.946399	17.919926	0.609766
7.37E-06		0.168699	8.618575	
0.85914		7.946399	17.919926	0.609766
7.37E-06		0.116985	3.400351	
1.00000		7.946399	17.919926	0.609766
7.37E-06		0.444719	3.173422	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-1.570969	-63.114412	-0.808588
-0.001393		-0.911860	-118.800272	
0.57743		-1.570969	-63.114412	-0.808588
-0.001393		-0.572766	-92.352942	
0.71829		-1.570969	-63.114412	-0.808588
-0.001393		-0.233971	-65.932917	
0.85914		-1.570969	-63.114412	-0.808588
-0.001393		-0.087049	-39.531124	
1.00000		-1.570969	-63.114412	-0.808588
-0.001393		-0.342806	-13.258787	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		14.631896	43.826920	0.825309
0.005715		0.920905	98.541620	
0.57743		14.631896	43.826920	0.825309
0.005715		0.574747	82.619913	
0.71829		14.631896	43.826920	0.825309
0.005715		0.228580	78.633384	
0.85914		14.631896	43.826920	0.825309
0.005715		0.192732	94.317301	
1.00000		14.631896	43.826920	0.825309
0.005715		0.717620	115.473064	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-3.013542	-149.490117	-1.256317
-0.007601		-1.390812	-162.215265	
0.57743		-3.013542	-149.490117	-1.256317
-0.007601		-0.866170	-105.840757	
0.71829		-3.013542	-149.490117	-1.256317
-0.007601		-0.356627	-69.448596	
0.85914		-3.013542	-149.490117	-1.256317
-0.007601		-0.126918	-36.848360	
1.00000		-3.013542	-149.490117	-1.256317
-0.007601		-0.463723	-12.790291	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3332

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		12.121663	82.337561	0.829922
0.004129		0.925985	180.557455	
0.57743		12.121663	82.337561	0.829922
0.004129		0.577837	147.899130	
0.71829		12.121663	82.337561	0.829922
0.004129		0.229662	123.530309	
0.85914		12.121663	82.337561	0.829922
0.004129		0.200890	113.126088	
1.00000		12.121663	82.337561	0.829922
0.004129		0.771305	108.295482	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-7.487283	-126.058106	-1.363470
-0.005519		-1.516760	-153.263270	
0.57743		-7.487283	-126.058106	-1.363470
-0.005519		-0.946456	-104.765017	
0.71829		-7.487283	-126.058106	-1.363470
-0.005519		-0.386603	-70.071904	
0.85914		-7.487283	-126.058106	-1.363470
-0.005519		-0.125170	-38.003904	
1.00000		-7.487283	-126.058106	-1.363470
-0.005519		-0.466298	-14.434528	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		10.709107	79.994336	0.794990
0.004106		0.887394	155.780150	
0.57743		10.709107	79.994336	0.794990
0.004106		0.553908	126.698330	
0.71829		10.709107	79.994336	0.794990
0.004106		0.220398	104.657075	
0.85914		10.709107	79.994336	0.794990
0.004106		0.192874	95.263092	
1.00000		10.709107	79.994336	0.794990
0.004106		0.746980	93.791506	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-9.250167	-111.814224	-1.323888
-0.004574		-1.474585	-138.437396	
0.57743		-9.250167	-111.814224	-1.323888
-0.004574		-0.920610	-99.699320	
0.71829		-9.250167	-111.814224	-1.323888
-0.004574		-0.375268	-73.762462	
0.85914		-9.250167	-111.814224	-1.323888
-0.004574		-0.118493	-50.775873	
1.00000		-9.250167	-111.814224	-1.323888
-0.004574		-0.446297	-34.971183	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		2.723288	12.094414	0.242993
0.001204		0.274314	3.799720	
0.57743		2.723288	12.094414	0.242993
0.001204		0.172306	3.071783	
0.71829		2.723288	12.094414	0.242993
0.001204		0.070294	3.632901	
0.85914		2.723288	12.094414	0.242993
0.001204		0.062433	8.673630	
1.00000		2.723288	12.094414	0.242993
0.001204		0.251823	14.411543	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-2.455284	-15.187898	-0.450493
-7.57E-06		-0.503423	-36.081620	
0.57743		-2.455284	-15.187898	-0.450493
-7.57E-06		-0.314273	-35.694796	
0.71829		-2.455284	-15.187898	-0.450493
-7.57E-06		-0.124451	-35.963541	
0.85914		-2.455284	-15.187898	-0.450493
-7.57E-06		-0.031072	-40.302581	
1.00000		-2.455284	-15.187898	-0.450493
-7.57E-06		-0.132876	-44.856000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3333

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		3.160363	31.931593	0.428729
0.002037		0.483475	25.135082	
0.57743		3.160363	31.931593	0.428729
0.002037		0.300324	17.799311	
0.71829		3.160363	31.931593	0.428729
0.002037		0.120524	12.123518	
0.85914		3.160363	31.931593	0.428729
0.002037		0.113578	13.727375	
1.00000		3.160363	31.931593	0.428729
0.002037		0.458171	21.176329	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-7.173743	-25.592376	-0.819880
-0.000140		-0.915886	-53.313987	
0.57743		-7.173743	-25.592376	-0.819880
-0.000140		-0.571924	-51.828353	
0.71829		-7.173743	-25.592376	-0.819880
-0.000140		-0.226978	-51.636464	
0.85914		-7.173743	-25.592376	-0.819880
-0.000140		-0.058980	-57.557171	
1.00000		-7.173743	-25.592376	-0.819880
-0.000140		-0.238374	-66.562009	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		2.968055	75.908458	0.582889
0.001699		0.650451	152.782768	
0.57743		2.968055	75.908458	0.582889
0.001699		0.405810	126.650500	
0.71829		2.968055	75.908458	0.582889
0.001699		0.161046	101.729870	
0.85914		2.968055	75.908458	0.582889
0.001699		0.160469	83.011497	
1.00000		2.968055	75.908458	0.582889
0.001699		0.649820	68.917420	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-9.858769	-25.999849	-1.162848
-1.43E-05		-1.298602	-53.706048	
0.57743		-9.858769	-25.999849	-1.162848
-1.43E-05		-0.810658	-51.110070	
0.71829		-9.858769	-25.999849	-1.162848
-1.43E-05		-0.321233	-49.207144	
0.85914		-9.858769	-25.999849	-1.162848
-1.43E-05		-0.082144	-52.731632	
1.00000		-9.858769	-25.999849	-1.162848
-1.43E-05		-0.326930	-58.289000	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		8.158099	73.036211	0.915856
0.004057		1.022497	153.089556	
0.57743		8.158099	73.036211	0.915856
0.004057		0.638148	128.969688	
0.71829		8.158099	73.036211	0.915856
0.004057		0.253850	112.280295	
0.85914		8.158099	73.036211	0.915856
0.004057		0.228447	113.398166	
1.00000		8.158099	73.036211	0.915856
0.004057		0.886622	128.006546	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43658		-8.907514	-89.903118	-1.568381

```
-0.003368   -1.743499   -97.838007
0.57743     -8.907514   -89.903118      -1.568381
-0.003368   -1.087390   -68.519966
0.71829     -8.907514   -89.903118      -1.568381
-0.003368   -0.433933   -51.031773
0.85914     -8.907514   -89.903118      -1.568381
-0.003368   -0.138865   -45.387076
1.00000     -8.907514   -89.903118      -1.568381
-0.003368   -0.514982   -52.511520
Program  SAP2000  Nonlinear  Version  7.42
                    File:하행S11-S1503.OUT

                                Page
<                    MOVING                    LOAD                    >
                                             3334

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     0.446758     30.070866       0.212113
 0.000625    0.234381     53.847216
0.57743     0.446758     30.070866       0.212113
 0.000625    0.145452     41.935198
0.71829     0.446758     30.070866       0.212113
 0.000625    0.056192     30.341165
0.85914     0.446758     30.070866       0.212113
 0.000625    0.058569     19.910459
1.00000     0.446758     30.070866       0.212113
 0.000625    0.237759     13.137482

COMB DL-G2-1 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -5.681355    -8.923519       -0.425931
-7.59E-05   -0.475865    -16.747507
0.57743     -5.681355    -8.923519       -0.425931
-7.59E-05   -0.296993    -14.524836
0.71829     -5.681355    -8.923519       -0.425931
-7.59E-05   -0.117759    -12.599974
0.85914     -5.681355    -8.923519       -0.425931
-7.59E-05   -0.032326    -11.677674
1.00000     -5.681355    -8.923519       -0.425931
-7.59E-05   -0.121208    -12.685148

COMB DL-G2-2 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     4.139158     72.795073       0.499422
 0.004503    0.554400    184.024180
0.57743     4.139158     72.795073       0.499422
 0.004503    0.344738    155.872709
0.71829     4.139158     72.795073       0.499422
 0.004503    0.134990    136.559722
0.85914     4.139158     72.795073       0.499422
 0.004503    0.155050    130.705530
1.00000     4.139158     72.795073       0.499422
 0.004503    0.564798    128.426539

COMB DL-G2-2 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -7.856339    -59.923079      -0.978853
-0.004270   -1.077616    -40.568062
0.57743     -7.856339    -59.923079      -0.978853
-0.004270   -0.669682    -18.582269
0.71829     -7.856339    -59.923079      -0.978853
-0.004270   -0.267401    -11.288725
0.85914     -7.856339    -59.923079      -0.978853
-0.004270   -0.088213    -11.872411
1.00000     -7.856339    -59.923079      -0.978853
-0.004270   -0.285295    -12.486957

COMB DL-G2-3 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     4.987058     76.622790       0.631142
 0.004938    0.703300    166.140085
0.57743     4.987058     76.622790       0.631142
 0.004938    0.438571    140.934049
0.71829     4.987058     76.622790       0.631142
 0.004938    0.173594    123.782314
0.85914     4.987058     76.622790       0.631142
 0.004938    0.188641    121.944499
1.00000     4.987058     76.622790       0.631142
 0.004938    0.708497    124.539189

COMB DL-G2-3 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -9.727666    -65.496653      -1.239805
-0.003865   -0.156618    -60.116618
0.57743     -9.727666    -65.496653      -1.239805
-0.003865   -0.853515    -41.053503
0.71829     -9.727666    -65.496653      -1.239805
-0.003865   -0.340498    -37.025899
0.85914     -9.727666    -65.496653      -1.239805
-0.003865   -0.103420    -39.198799
1.00000     -9.727666    -65.496653      -1.239805
-0.003865   -0.357201    -43.980923
Program  SAP2000  Nonlinear  Version  7.42
                    File:하행S11-S1503.OUT

                                Page
<                    MOVING                    LOAD                    >
                                             3335

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     8.535224     75.502956       1.079608
 0.003277    1.203989    152.261787
0.57743     8.535224     75.502956       1.079608
 0.003277    0.751101    126.438462
0.71829     8.535224     75.502956       1.079608
 0.003277    0.298235    105.787893
0.85914     8.535224     75.502956       1.079608
 0.003277    0.249181     98.731011
1.00000     8.535224     75.502956       1.079608
 0.003277    0.980588    111.093894

COMB DL-G2-4 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -9.200775    -95.960204      -1.742564
-0.003260   -1.941493    -113.296772
0.57743     -9.200775    -95.960204      -1.742564
-0.003260   -1.181288    -73.699163
0.71829     -9.200775    -95.960204      -1.742564
-0.003260   -0.484755    -55.785761
0.85914     -9.200775    -95.960204      -1.742564
-0.003260   -0.161874    -38.899957
1.00000     -9.200775    -95.960204      -1.742564
-0.003260   -0.608349    -43.321800

COMB DL-G3-1 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     6.900424     22.173822       0.927498
 4.36E-06    1.004898     26.508334
0.57743     6.900424     22.173822       0.927498
 4.36E-06    0.645797     17.475099
0.71829     6.900424     22.173822       0.927498
 4.36E-06    0.256932     8.538778
0.85914     6.900424     22.173822       0.927498
 4.36E-06    0.156688     3.814331
1.00000     6.900424     22.173822       0.927498
 4.36E-06    0.652078     3.724118

COMB DL-G3-1 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -2.156255    -58.275412      -1.175082
-0.001421   -1.318486   -111.958101
0.57743     -2.156255    -58.275412      -1.175082
-0.001421   -0.825414    -87.678489
0.71829     -2.156255    -58.275412      -1.175082
-0.001421   -0.332093    -63.484718
0.85914     -2.156255    -58.275412      -1.175082
-0.001421   -0.131959    -43.017817
1.00000     -2.156255    -58.275412      -1.175082
-0.001421   -0.521229    -25.175987

COMB DL-G3-2 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     13.404326    46.711416       1.301125
 0.005714    1.452469    104.820694
0.57743     13.404326    46.711416       1.301125
 0.005714    0.906771    88.071968
0.71829     13.404326    46.711416       1.301125
 0.005714    0.361004    83.637400
0.85914     13.404326    46.711416       1.301125
 0.005714    0.269765    100.815064
1.00000     13.404326    46.711416       1.301125
 0.005714    1.012971    123.240958

COMB DL-G3-2 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -3.399893   -140.596337     -1.776910
-0.007691   -1.969629   -154.251312
0.57743     -3.399893   -140.596337     -1.776910
-0.007691   -1.226386    -97.805836
0.71829     -3.399893   -140.596337     -1.776910
-0.007691   -0.495513    -64.721847
0.85914     -3.399893   -140.596337     -1.776910
-0.007691   -0.205247    -39.825078
1.00000     -3.399893   -140.596337     -1.776910
-0.007691   -0.733335    -20.799402
Program  SAP2000  Nonlinear  Version  7.42
                    File:하행S11-S1503.OUT

                                Page
<                    MOVING                    LOAD                    >
                                             3336

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     11.171622    77.492890       1.324075
 0.004324    1.475239    176.481598
0.57743     11.171622    77.492890       1.324075
 0.004324    0.919808    146.417801
0.71829     11.171622    77.492890       1.324075
 0.004324    0.364221    125.274611
0.85914     11.171622    77.492890       1.324075
 0.004324    0.286026    120.516752
1.00000     11.171622    77.492890       1.324075
 0.004324    1.103524    121.032474

COMB DL-G3-3 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -7.426251   -120.704967     -1.949921
-0.005808   -2.167588   -144.970257
0.57743     -7.426251   -120.704967     -1.949921
-0.005808   -1.352403    -96.373520
0.71829     -7.426251   -120.704967     -1.949921
-0.005808   -0.542733    -64.599508
0.85914     -7.426251   -120.704967     -1.949921
-0.005808   -0.204892    -39.488644
1.00000     -7.426251   -120.704967     -1.949921
-0.005808   -0.747959    -20.192252

COMB DL-G3-4 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     9.973861     77.030301       1.254848
 0.004288    1.398688    152.322983
0.57743     9.973861     77.030301       1.254848
 0.004288    0.872275    125.366672
0.71829     9.973861     77.030301       1.254848
 0.004288    0.345810    105.977439
0.85914     9.973861     77.030301       1.254848
 0.004288    0.280062    102.198277
1.00000     9.973861     77.030301       1.254848
 0.004288    1.089539    105.792205

COMB DL-G3-4 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -9.427380   -109.164965     -1.930043
-0.004826   -2.147809    -137.176939
0.57743     -9.427380   -109.164965     -1.930043
-0.004826   -1.340606    -97.379458
0.71829     -9.427380   -109.164965     -1.930043
-0.004826   -0.537502    -71.681065
0.85914     -9.427380   -109.164965     -1.930043
-0.004826   -0.192020    -53.133632
1.00000     -9.427380   -109.164965     -1.930043
-0.004826   -0.708192    -41.140509

COMB      DB ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     14.631896    82.337561       0.829922
 0.005715    0.925985    187.454260
0.57743     14.631896    82.337561       0.829922
 0.005715    0.577837    155.879310
0.71829     14.631896    82.337561       0.829922
 0.005715    0.229662    134.043984
0.85914     14.631896    82.337561       0.829922
 0.005715    0.207890    127.785210
1.00000     14.631896    82.337561       0.829922
 0.005715    0.771305    125.654926

COMB      DB ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -10.307119   -149.490117     -1.363470
-0.007601   -1.516760    -162.215265
0.57743     -10.307119   -149.490117     -1.363470
-0.007601   -0.946456    -105.840757
0.71829     -10.307119   -149.490117     -1.363470
-0.007601   -0.376603    -73.762462
0.85914     -10.307119   -149.490117     -1.363470
-0.007601   -0.126918    -51.904153
1.00000     -10.307119   -149.490117     -1.363470
-0.007601   -0.466298    -59.825206
Program  SAP2000  Nonlinear  Version  7.42
                    File:하행S11-S1503.OUT

                                Page
<                    MOVING                    LOAD                    >
                                             3337

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     13.404326    77.492890       1.324075
 0.005714    1.475239    184.024180
0.57743     13.404326    77.492890       1.324075
 0.005714    0.919808    155.872709
0.71829     13.404326    77.492890       1.324075
 0.005714    0.364221    136.559722
0.85914     13.404326    77.492890       1.324075
 0.005714    0.286026    130.705530
1.00000     13.404326    77.492890       1.324075
 0.005714    1.103524    128.426539

COMB      DL ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -9.858769   -140.596337     -1.949921
-0.007691   -2.167588   -154.251312
0.57743     -9.858769   -140.596337     -1.949921
-0.007691   -1.352403    -97.805836
0.71829     -9.858769   -140.596337     -1.949921
-0.007691   -0.542733    -71.681065
0.85914     -9.858769   -140.596337     -1.949921
-0.007691   -0.205247    -57.557171
1.00000     -9.858769   -140.596337     -1.949921
-0.007691   -0.747959    -66.562009

COMB      CAR ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     14.631896    82.337561       1.324075
 0.005715    1.475239    187.454260
0.57743     14.631896    82.337561       1.324075
 0.005715    0.919808    155.879310
0.71829     14.631896    82.337561       1.324075
 0.005715    0.364221    136.559722
0.85914     14.631896    82.337561       1.324075
 0.005715    0.286026    130.705530
1.00000     14.631896    82.337561       1.324075
 0.005715    1.103524    128.426539

COMB      CAR ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -10.307119   -149.490117     -1.949921
-0.007691   -2.167588    -162.215265
0.57743     -10.307119   -149.490117     -1.949921
-0.007691   -1.352403    -105.840757
0.71829     -10.307119   -149.490117     -1.949921
-0.007691   -0.542733    -73.762462
0.85914     -10.307119   -149.490117     -1.949921
-0.007691   -0.205247    -57.557171
1.00000     -10.307119   -149.490117     -1.949921
-0.007691   -0.747959    -66.562009

COMB      DESIGN ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43658     14.631896    82.337561       1.324075
 0.005715    1.475239    187.454260
0.57743     14.631896    82.337561       1.324075
 0.005715    0.919808    155.879310
0.71829     14.631896    82.337561       1.324075
 0.005715    0.364221    136.559722
0.85914     14.631896    82.337561       1.324075
 0.005715    0.286026    130.705530
1.00000     14.631896    82.337561       1.324075
 0.005715    1.103524    128.426539

COMB      DESIGN ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.43658     -10.307119   -149.490117     -1.949921
-0.007691   -2.167588    -162.215265
0.57743     -10.307119   -149.490117     -1.949921
-0.007691   -1.352403    -105.840757
0.71829     -10.307119   -149.490117     -1.949921
-0.007691   -0.542733    -73.762462
0.85914     -10.307119   -149.490117     -1.949921
-0.007691   -0.205247    -57.557171
1.00000     -10.307119   -149.490117     -1.949921
-0.007691   -0.747959    -66.562009
Program  SAP2000  Nonlinear  Version  7.42
                    File:하행S11-S1503.OUT

                                Page
<                    MOVING                    LOAD                    >
                                             3338

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      315 ================== LENGTH =  2.977713

COMB DB-G1-1 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     1.625811     10.144979       0.195766
 0.000727    0.115997     10.383907
0.14086     1.625811     10.144979       0.195766
 0.000727    0.034167     15.175439
0.28171     1.625811     10.144979       0.195766
 0.000727    0.084051     20.094068
0.42257     1.625811     10.144979       0.195766
 0.000727    0.231719     25.068603
0.56342     1.625811     10.144979       0.195766
 0.000727    0.346790     30.083216

COMB DB-G1-1 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000     -2.572558    -12.000819      -0.313222
-6.90E-06   -0.178707    -38.738950
0.14086     -2.572558    -12.000819      -0.313222
-6.90E-06   -0.047308    -42.641511
0.28171     -2.572558    -12.000819      -0.313222
-6.90E-06   -0.048558    -46.594248
0.42257     -2.572558    -12.000819      -0.313222
-6.90E-06   -0.130352    -50.588993
0.56342     -2.572558    -12.000819      -0.313222
-6.90E-06   -0.212441    -54.718527

COMB DB-G1-2 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     1.981707     31.115077       0.315485
 0.001499    0.183100     17.287096
0.14086     1.981707     31.115077       0.315485
 0.001499    0.051296     23.281190
0.28171     1.981707     31.115077       0.315485
 0.001499    0.144220     29.702574
0.42257     1.981707     31.115077       0.315485
 0.001499    0.368285     37.224165
0.56342     1.981707     31.115077       0.315485
 0.001499    0.592789     45.277935

COMB DB-G1-2 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000     -6.997131    -19.747648      -0.535449
-0.000187   -0.305545    -59.840161
0.14086     -6.997131    -19.747648      -0.535449
-0.000187   -0.080907    -69.698160
0.28171     -6.997131    -19.747648      -0.535449
-0.000187   -0.081817    -79.937025
0.42257     -6.997131    -19.747648      -0.535449
-0.000187   -0.214053    -90.679604
0.56342     -6.997131    -19.747648      -0.535449
-0.000187   -0.346335    -102.728163

COMB DB-G1-3 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     1.890320     80.146110       0.379751
 0.001679    0.218588     55.631487
0.14086     1.890320     80.146110       0.379751
 0.001679    0.059405     46.349439
0.28171     1.890320     80.146110       0.379751
 0.001679    0.213209     48.545680
0.42257     1.890320     80.146110       0.379751
 0.001679    0.537291     53.659095
0.56342     1.890320     80.146110       0.379751
 0.001679    0.861546     59.625979

COMB DB-G1-3 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000     -10.237514   -21.001618      -0.773156
-6.21E-06   -0.435646    -52.493224
0.14086     -10.237514   -21.001618      -0.773156
-6.21E-06   -0.111372    -57.015774
0.28171     -10.237514   -21.001618      -0.773156
-6.21E-06   -0.100011    -73.544883
Program  SAP2000  Nonlinear  Version  7.42
                    File:하행S11-S1503.OUT

                                Page
<                    MOVING                    LOAD                    >
                                             3339

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
        T          M2              M3
0.42257     -10.237514   -21.001618      -0.773156
-6.21E-06   -0.259286    -105.656308
0.56342     -10.237514   -21.001618      -0.773156
-6.21E-06   -0.418581    -138.606735

COMB DB-G1-4 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     6.024903     109.707123      0.591610
 0.004872    0.337834     122.086137
0.14086     6.024903     109.707123      0.591610
 0.004872    0.094418     114.797268
0.28171     6.024903     109.707123      0.591610
 0.004872    0.305040     116.777853
0.42257     6.024903     109.707123      0.591610
 0.004872    0.764967     130.421370
0.56342     6.024903     109.707123      0.591610
 0.004872    1.233509     152.603058

COMB DB-G1-4 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000     -10.926163   -60.927517      -1.120664
-0.003839   -0.646874    -47.188577
0.14086     -10.926163   -60.927517      -1.120664
-0.003839   -0.177560    -53.356701
0.28171     -10.926163   -60.927517      -1.120664
-0.003839   -0.158477    -69.745913
0.42257     -10.926163   -60.927517      -1.120664
-0.003839   -0.406613    -98.586319
0.56342     -10.926163   -60.927517      -1.120664
-0.003839   -0.654766    -137.231540

COMB DB-G2-1 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     0.511979     33.010310       0.122150
 0.000665    0.067836     12.589274
0.14086     0.511979     33.010310       0.122150
 0.000665    0.016617     10.730364
0.28171     0.511979     33.010310       0.122150
 0.000665    0.072037     11.399242
0.42257     0.511979     33.010310       0.122150
 0.000665    0.180065     12.708415
0.56342     0.511979     33.010310       0.122150
 0.000665    0.288173     14.205633

COMB DB-G2-1 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000     -5.422845    -7.771104       -0.257757
-9.36E-06   -0.144265    -13.542462
0.14086     -5.422845    -7.771104       -0.257757
-9.36E-06   -0.036175    -17.822823
0.28171     -5.422845    -7.771104       -0.257757
-9.36E-06   -0.034555    -29.841583
0.42257     -5.422845    -7.771104       -0.257757
-9.36E-06   -0.085772    -42.711222
0.56342     -5.422845    -7.771104       -0.257757
-9.36E-06   -0.137048    -56.332821

COMB DB-G2-2 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     1.625941     128.011720      0.282789
 0.005753    0.158252     125.936062
0.14086     1.625941     128.011720      0.282789
 0.005753    0.045929     88.701460
0.28171     1.625941     128.011720      0.282789
 0.005753    0.188387     63.665497
0.42257     1.625941     128.011720      0.282789
 0.005753    0.462311     54.473348
0.56342     1.625941     128.011720      0.282789
 0.005753    0.748025     56.856276

COMB DB-G2-2 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000     -10.591770   -16.182672      -0.686081
-0.004833   -0.403342    -13.300818
Program  SAP2000  Nonlinear  Version  7.42
                    File:하행S11-S1503.OUT

                                Page
<                    MOVING                    LOAD                    >
                                             3340

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
        T          M2              M3
0.14086     -10.591770   -16.182672      -0.686081
-0.004833   -0.116647    -14.091905
0.28171     -10.591770   -16.182672      -0.686081
-0.004833   -0.078746    -28.407997
0.42257     -10.591770   -16.182672      -0.686081
-0.004833   -0.197407    -59.011089
0.56342     -10.591770   -16.182672      -0.686081
-0.004833   -0.316077    -102.964552

COMB DB-G2-3 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     2.402692     124.985976      0.395590
 0.005771    0.225617     119.660147
0.14086     2.402692     124.985976      0.395590
 0.005771    0.065516     89.982393
0.28171     2.402692     124.985976      0.395590
 0.005771    0.234526     71.196033
0.42257     2.402692     124.985976      0.395590
 0.005771    0.582557     66.671239
0.56342     2.402692     124.985976      0.395590
 0.005771    0.941222     72.610589

COMB DB-G2-3 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000     -12.241194   -23.664963      -0.859539
-0.004368   -0.501148    -41.340341
0.14086     -12.241194   -23.664963      -0.859539
-0.004368   -0.141542    -45.589530
0.28171     -12.241194   -23.664963      -0.859539
-0.004368   -0.106220    -62.464007
0.42257     -12.241194   -23.664963      -0.859539
-0.004368   -0.272021    -93.853363
0.56342     -12.241194   -23.664963      -0.859539
-0.004368   -0.437997    -137.249663

COMB DB-G2-4 ---------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     7.623154     105.735891      0.689530
 0.004052    0.391304     105.576875
0.14086     7.623154     105.735891      0.689530
 0.004052    0.105894     107.077543
0.28171     7.623154     105.735891      0.689530
 0.004052    0.342890     117.975643
0.42257     7.623154     105.735891      0.689530
 0.004052    0.862395     138.977980
0.56342     7.623154     105.735891      0.689530
 0.004052    1.388920     166.998114

COMB DB-G2-4 ---------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000     -10.712944   -74.289877      -1.258235
```

```
-0.003521   -0.722244   -39.848583
0.14086   -10.712944   -74.289877   -1.258235
-0.003521   -0.195105   -46.895699
0.28171   -10.712944   -74.289877   -1.258235
-0.003521   -0.187122   -64.444271
0.42257   -10.71294   -74.289877   -1.258235
-0.003521   -0.476218   -94.619994
0.56342   -10.71294   -74.289877   -1.258235
-0.003521   -0.765472   -132.842380

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    7.991754   17.848669    0.609020
2.00E-05    0.343877    3.170297
0.14086    7.991754   17.848669    0.609020
2.00E-05    0.088476   14.977602
0.28171    7.991754   17.848669    0.609020
2.00E-05    0.244381   41.191935
0.42257    7.991754   17.848669    0.609020
2.00E-05    0.622751   67.610242
0.56342    7.991754   17.848669    0.609020
2.00E-05    1.001137   94.101547
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3341

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -1.575283   -63.302293   -0.902155
-0.001249   -0.512422   -13.281757
0.14086   -1.575283   -63.302293   -0.902155
-0.001249   -0.134028   -16.776855
0.28171   -1.575283   -63.302293   -0.902155
-0.001249   -0.167033   -23.338344
0.42257   -1.575283   -63.302293   -0.902155
-0.001249   -0.422472   -30.306919
0.56342   -1.575283   -63.302293   -0.902155
-0.001249   -0.677910   -37.686508

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000   11.137695   102.190366    0.828149
 0.005963    0.467955   115.829668
0.14086   11.137695   102.190366    0.828149
 0.005963    0.128257   110.327241
0.28171   11.137695   102.190366    0.828149
 0.005963    0.368514   114.251869
0.42257   11.137695   102.190366    0.828149
 0.005963    0.926223   135.427292
0.56342   11.137695   102.190366    0.828149
 0.005963    1.497728   169.997368

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -5.959264   -87.684955   -1.368534
-0.007249   -0.798615   -12.769872
0.14086   -5.959264   -87.684955   -1.368534
-0.007249   -0.225836   -20.835818
0.28171   -5.959264   -87.684955   -1.368534
-0.007249   -0.226729   -29.103687
0.42257   -5.959264   -87.684955   -1.368534
-0.007249   -0.574088   -41.808885
0.56342   -5.959264   -87.684955   -1.368534
-0.007249   -0.921442   -72.946229

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    9.736859   122.118214    0.829233
 0.004680    0.467280   108.524289
0.14086    9.736859   122.118214    0.829233
 0.004680    0.124625   102.835296
0.28171    9.736859   122.118214    0.829233
 0.004680    0.396796   111.010567
0.42257    9.736859   122.118214    0.829233
 0.004680    0.995651   132.534911
0.56342    9.736859   122.118214    0.829233
 0.004680    1.604358   163.792778

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -9.468250   -83.822113   -1.455357
-0.005215   -0.837628   -14.413334
0.14086   -9.468250   -83.822113   -1.455357
-0.005215   -0.228102   -19.492216
0.28171   -9.468250   -83.822113   -1.455357
-0.005215   -0.228088   -37.612665
0.42257   -9.468250   -83.822113   -1.455357
-0.005215   -0.575977   -69.935510
0.56342   -9.468250   -83.822113   -1.455357
-0.005215   -0.923836   -113.075991

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    8.735467   112.839568    0.799175
 0.004374    0.451866    93.986703
0.14086    8.735467   112.839568    0.799175
 0.004374    0.121030    92.135801
0.28171    8.735467   112.839568    0.799175
 0.004374    0.383354   101.956830
0.42257    8.735467   112.839568    0.799175
 0.004374    0.964650   122.915342
0.56342    8.735467   112.839568    0.799175
 0.004374    1.554097   151.934244
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3342

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -10.878216   -76.930809   -1.408735
-0.004321   -0.809586   -34.959945
0.14086   -10.878216   -76.930809   -1.408735
-0.004321   -0.218026   -43.130826
0.28171   -10.878216   -76.930809   -1.408735
-0.004321   -0.218515   -61.752973
0.42257   -10.878216   -76.930809   -1.408735
-0.004321   -0.553721   -92.747140
0.56342   -10.878216   -76.930809   -1.408735
-0.004321   -0.888914   -133.080242

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    2.701034   12.225591    0.285365
 0.000754    0.167194   14.423624
0.14086    2.701034   12.225591    0.285365
 0.000754    0.046854   20.507539
0.28171    2.701034   12.225591    0.285365
 0.000754    0.121470   26.672909
0.42257    2.701034   12.225591    0.285365
 0.000754    0.307677   32.874562
0.56342    2.701034   12.225591    0.285365
 0.000754    0.493234   39.091793

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -2.439506   -15.216656   -0.442240
-4.02E-06   -0.248510   -44.868245
0.14086   -2.439506   -15.216656   -0.442240
-4.02E-06   -0.062901   -49.582437
0.28171   -2.439506   -15.216656   -0.442240
-4.02E-06   -0.072650   -54.341403
0.42257   -2.439506   -15.216656   -0.442240
-4.02E-06   -0.192682   -59.136702
0.56342   -2.439506   -15.216656   -0.442240
-4.02E-06   -0.312266   -63.985092

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    3.070503   33.075105    0.458429
 0.001457    0.263913   21.197086
0.14086    3.070503   33.075105    0.458429
 0.001457    0.071602   29.508553
0.28171    3.070503   33.075105    0.458429
 0.001457    0.222972   38.455307
0.42257    3.070503   33.075105    0.458429
 0.001457    0.564906   47.932883
0.56342    3.070503   33.075105    0.458429
 0.001457    0.905786   57.841825

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -7.209892   -24.578659   -0.812361
-0.000112   -0.456873   -66.583083
0.14086   -7.209892   -24.578659   -0.812361
-0.000112   -0.116414   -77.052940
0.28171   -7.209892   -24.578659   -0.812361
-0.000112   -0.121347   -88.289770
0.42257   -7.209892   -24.578659   -0.812361
-0.000112   -0.314195   -100.620755
0.56342   -7.209892   -24.578659   -0.812361
-0.000112   -0.505939   -113.786557

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    2.950271   75.744742    0.598405
 0.001599    0.340711   68.920537
0.14086    2.950271   75.744742    0.598405
 0.001599    0.089085   60.302215
0.28171    2.950271   75.744742    0.598405
 0.001599    0.316520   59.484818
0.42257    2.950271   75.744742    0.598405
 0.001599    0.796589   66.464004
0.56342    2.950271   75.744742    0.598405
 0.001599    1.275077   75.125124
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3343

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -9.804768   -26.181210   -1.140107
-7.80E-06   -0.636432   -58.301389
0.14086   -9.804768   -26.181210   -1.140107
-7.80E-06   -0.157395   -64.622272
0.28171   -9.804768   -26.181210   -1.140107
-7.80E-06   -0.161616   -79.792160
0.42257   -9.804768   -26.181210   -1.140107
-7.80E-06   -0.413271   -108.583912
0.56342   -9.804768   -26.181210   -1.140107
-7.80E-06   -0.663883   -138.895911

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    6.485816   99.242586    0.935118
 0.004020    0.531696   128.021514
0.14086    6.485816   99.242586    0.935118
 0.004020    0.146710   124.206925
0.28171    6.485816   99.242586    0.935118
 0.004020    0.432875   126.960087
0.42257    6.485816   99.242586    0.935118
 0.004020    1.089425   142.967631
0.56342    6.485816   99.242586    0.935118
 0.004020    1.748185   165.819390

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -10.323564   -62.641658   -1.574870
-0.002998   -0.893635   -52.512091
0.14086   -10.323564   -62.641658   -1.574870
-0.002998   -0.233135   -60.565758
0.28171   -10.323564   -62.641658   -1.574870
-0.002998   -0.254142   -76.199091
0.42257   -10.323564   -62.641658   -1.574870
-0.002998   -0.646913   -102.940454
0.56342   -10.323564   -62.641658   -1.574870
-0.002998   -1.038873   -140.960089

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    0.443639   30.108496    0.186274
 0.000619    0.101933   13.138093
0.14086    0.443639   30.108496    0.186274
 0.000619    0.023819   11.453858
0.28171    0.443639   30.108496    0.186274
 0.000619    0.116678   13.060835
0.42257    0.443639   30.108496    0.186274
 0.000619    0.593274   15.512291
0.56342    0.443639   30.108496    0.186274
 0.000619    0.469367   18.308264

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -5.674432   -8.971153   -0.419369
-5.37E-06   -0.233551   -12.688475
0.14086   -5.674432   -8.971153   -0.419369
-5.37E-06   -0.057692   -18.060820
0.28171   -5.674432   -8.971153   -0.419369
-5.37E-06   -0.053790   -28.247240
0.42257   -5.674432   -8.971153   -0.419369
-5.37E-06   -0.132166   -39.899980
0.56342   -5.674432   -8.971153   -0.419369
-5.37E-06   -0.210320   -51.939602

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    1.567018   112.732647    0.475473
 0.004966    0.267032   128.454678
0.14086    1.567018   112.732647    0.475473
 0.004966    0.078928   94.125284
0.28171    1.567018   112.732647    0.475473
 0.004966    0.265939   68.669109
0.42257    1.567018   112.732647    0.475473
 0.004966    0.662862   61.859473
0.56342    1.567018   112.732647    0.475473
 0.004966    1.064615   64.836317
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3344

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -10.035550   -17.866998   -0.964979
-0.004120   -0.554680   -12.481660
0.14086   -10.035550   -17.866998   -0.964979
-0.004120   -0.150801   -13.904476
0.28171   -10.035550   -17.866998   -0.964979
-0.004120   -0.133085   -26.183516
0.42257   -10.035550   -17.866998   -0.964979
-0.004120   -0.332775   -52.188498
0.56342   -10.035550   -17.866998   -0.964979
-0.004120   -0.532338   -94.764775

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    2.646613   112.857545    0.630893
 0.005077    0.358198   124.574446
0.14086    2.646613   112.857545    0.630893
 0.005077    0.103718   98.221173
0.28171    2.646613   112.857545    0.630893
 0.005077    0.337243   79.957038
0.42257    2.646613   112.857545    0.630893
 0.005077    0.845078   78.502067
0.56342    2.646613   112.857545    0.630893
 0.005077    1.356496   85.838923

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -11.683892   -27.484676   -1.225942
-0.003729   -0.700510   -43.988306
0.14086   -11.683892   -27.484676   -1.225942
-0.003729   -0.167206   -49.580424
0.28171   -11.683892   -27.484676   -1.225942
-0.003729   -0.172787   -65.345151
0.42257   -11.683892   -27.484676   -1.225942
-0.003729   -0.437503   -93.293344
0.56342   -11.683892   -27.484676   -1.225942
-0.003729   -0.702232   -136.162711

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    7.164955   97.204458    1.081444
 0.003383    0.611640   111.095365
0.14086    7.164955   97.204458    1.081444
 0.003383    0.163748   113.948943
0.28171    7.164955   97.204458    1.081444
 0.003383    0.486681   123.721475
0.42257    7.164955   97.204458    1.081444
 0.003383    1.226636   145.573610
0.56342    7.164955   97.204458    1.081444
 0.003383    1.968364   173.127199

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -10.377294   -73.419704   -1.771912
-0.002885   -1.003482   -43.317743
0.14086   -10.377294   -73.419704   -1.771912
-0.002885   -0.260009   -52.325158
0.28171   -10.377294   -73.419704   -1.771912
-0.002885   -0.296830   -69.870296
0.42257   -10.377294   -73.419704   -1.771912
-0.002885   -0.750431   -98.073924
0.56342   -10.377294   -73.419704   -1.771912
-0.002885   -1.204067   -135.633419

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    6.940090   22.054248    0.927144
 1.51E-05    0.522800    3.719678
0.14086    6.940090   22.054248    0.927144
 1.51E-05    0.133636   14.584329
0.28171    6.940090   22.054248    0.927144
 1.51E-05    0.330925   37.313392
0.42257    6.940090   22.054248    0.927144
 1.51E-05    0.863738   61.781154
0.56342    6.940090   22.054248    0.927144
 1.51E-05    1.387107   85.888444
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3345

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -2.169256   -58.314055   -1.247610
-0.001221   -0.104969   -25.186422
0.14086   -2.169256   -58.314055   -1.247610
-0.001221   -0.180790   -24.694607
0.28171   -2.169256   -58.314055   -1.247610
-0.001221   -0.255108   -32.468319
0.42257   -2.169256   -58.314055   -1.247610
-0.001221   -0.643938   -41.021979
0.56342   -2.169256   -58.314055   -1.247610
-0.001221   -1.032732   -49.912886

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    9.802897   103.469914    1.309449
 0.005935    0.741647   123.286415
0.14086    9.802897   103.469914    1.309449
 0.005935    0.208909   115.928624
0.28171    9.802897   103.469914    1.309449
 0.005935    0.504273   116.096870
0.42257    9.802897   103.469914    1.309449
 0.005935    1.047569   123.305323
0.56342    9.802897   103.469914    1.309449
 0.005935    2.048025   162.636663

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -6.547760   -80.883010   -1.859791
-0.007155   -1.073064   -20.787350
0.14086   -6.547760   -80.883010   -1.859791
-0.007155   -0.294413   -27.721801
0.28171   -6.547760   -80.883010   -1.859791
-0.007155   -0.514512   -37.822523
0.42257   -6.547760   -80.883010   -1.859791
-0.007155   -0.908680   -52.187374
0.56342   -6.547760   -80.883010   -1.859791
-0.007155   -1.457811   -89.681002

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    8.587393   118.345911    1.306749
 0.004761    0.736546   121.056818
0.14086    8.587393   118.345911    1.306749
 0.004761    0.199697   110.218672
0.28171    8.587393   118.345911    1.306749
 0.004761    0.549382   111.562247
0.42257    8.587393   118.345911    1.306749
 0.004761    1.384044   130.176414
0.56342    8.587393   118.345911    1.306749
 0.004761    2.223247   158.453699

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -9.678224   -77.826140   -2.008397
-0.005350   -1.145279   -20.180046
0.14086   -9.678224   -77.826140   -2.008397
-0.005350   -0.303168   -25.293731
0.28171   -9.678224   -77.826140   -2.008397
-0.005350   -0.360962   -43.534793
0.42257   -9.678224   -77.826140   -2.008397
-0.005350   -0.909243   -71.917059
0.56342   -9.678224   -77.826140   -2.008397
-0.005350   -1.457270   -116.845756

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    7.822976   110.937532    1.245259
 0.004460    0.703090   105.820404
0.14086    7.822976   110.937532    1.245259
 0.004460    0.190125   100.419720
0.28171    7.822976   110.937532    1.245259
 0.004460    0.541969   105.053438
0.42257    7.822976   110.937532    1.245259
 0.004460    1.366867   124.172684
0.56342    7.822976   110.937532    1.245259
 0.004460    2.195284   151.336339
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3346

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -11.285484   -73.630647   -1.981193
-0.004443   -1.127694   -41.138914
0.14086   -11.285484   -73.630647   -1.981193
-0.004443   -0.297166   -49.753484
0.28171   -11.285484   -73.630647   -1.981193
-0.004443   -0.342945   -69.242907
0.42257   -11.285484   -73.630647   -1.981193
-0.004443   -0.865278   -97.751628
0.56342   -11.285484   -73.630647   -1.981193
-0.004443   -1.387529   -140.181742

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000   11.137695   128.011720    0.829233
 0.005963    0.467955   125.936062
0.14086   11.137695   128.011720    0.829233
 0.005963    0.128257   114.797268
0.28171   11.137695   128.011720    0.829233
 0.005963    0.396796   117.975643
0.42257   11.137695   128.011720    0.829233
 0.005963    0.995651   138.977980
0.56342   11.137695   128.011720    0.829233
 0.005963    1.604358   169.997368

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -12.241194   -87.684955   -1.455357
-0.007249   -0.837628   -59.840161
0.14086   -12.241194   -87.684955   -1.455357
-0.007249   -0.228102   -69.698160
0.28171   -12.241194   -87.684955   -1.455357
-0.007249   -0.228088   -79.937025
0.42257   -12.241194   -87.684955   -1.455357
-0.007249   -0.575977   -105.656308
0.56342   -12.241194   -87.684955   -1.455357
-0.007249   -0.923836   -138.606735

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000    9.802897   118.345911    1.309449
 0.005935    0.741647   128.454678
0.14086    9.802897   118.345911    1.309449
 0.005935    0.208909   124.206925
0.28171    9.802897   118.345911    1.309449
 0.005935    0.549382   126.960087
0.42257    9.802897   118.345911    1.309449
 0.005935    1.384044   145.573610
0.56342    9.802897   118.345911    1.309449
 0.005935    2.223247   173.127199

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -11.683892   -80.883010   -2.008397
-0.007155   -1.145279   -66.583083
0.14086   -11.683892   -80.883010   -2.008397
-0.007155   -0.303168   -77.062940
0.28171   -11.683892   -80.883010   -2.008397
-0.007155   -0.360962   -88.289770
0.42257   -11.683892   -80.883010   -2.008397
-0.007155   -0.909243   -108.583912
0.56342   -11.683892   -80.883010   -2.008397
-0.007155   -1.457811   -140.960089

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000   11.137695   128.011720    1.309449
 0.005963    0.741647   128.454678
0.14086   11.137695   128.011720    1.309449
 0.005963    0.208909   124.206925
0.28171   11.137695   128.011720    1.309449
 0.005963    0.549382   126.960087
0.42257   11.137695   128.011720    1.309449
 0.005963    1.384044   145.573610
0.56342   11.137695   128.011720    1.309449
 0.005963    2.223247   173.127199
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3347

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -12.241194   -87.684955   -2.008397
-0.007249   -1.145279   -66.583083
0.14086   -12.241194   -87.684955   -2.008397
-0.007249   -0.303168   -77.062940
0.28171   -12.241194   -87.684955   -2.008397
-0.007249   -0.360962   -88.289770
0.42257   -12.241194   -87.684955   -2.008397
-0.007249   -0.909243   -108.583912
0.56342   -12.241194   -87.684955   -2.008397
-0.007249   -1.457811   -140.960089

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
               T          M2          M3
0.00000   11.137695   128.011720    1.309449
 0.005963    0.741647   128.454678
0.14086   11.137695   128.011720    1.309449
 0.005963    0.208909   124.206925
0.28171   11.137695   128.011720    1.309449
 0.005963    0.549382   126.960087
0.42257   11.137695   128.011720    1.309449
 0.005963    1.384044   145.573610
0.56342   11.137695   128.011720    1.309449
 0.005963    2.223247   173.127199

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
               T          M2          M3
0.00000   -12.241194   -87.684955   -2.008397
-0.007249   -1.145279   -66.583083
0.14086   -12.241194   -87.684955   -2.008397
-0.007249   -0.303168   -77.062940
0.28171   -12.241194   -87.684955   -2.008397
-0.007249   -0.360962   -88.289770
0.42257   -12.241194   -87.684955   -2.008397
-0.007249   -0.909243   -108.583912
0.56342   -12.241194   -87.684955   -2.008397
-0.007249   -1.457811   -140.960089
```

```
 ELEM      316 ================== LENGTH
=     2.977509

 COMB DB-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    0.544601   16.932965    0.265363
 0.000911   0.297458    2.283744
 0.57745    0.544601   16.932965    0.265363
 0.000911   0.186171    1.253637
 0.71830    0.544601   16.932965    0.265363
 0.000911   0.074884    2.866050
 0.85915    0.544601   16.932965    0.265363
 0.000911   0.052865    5.421404
 1.00000    0.544601   16.932965    0.265363
 0.000911   0.213567    8.414089

 COMB DB-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -4.407889   -7.888893   -0.383143
-1.25E-05   -0.429162  -23.479224
 0.57745   -4.407889   -7.888893   -0.383143
-1.25E-05   -0.268480  -29.909153
 0.71830   -4.407889   -7.888893   -0.383143
-1.25E-05   -0.107815  -36.375937
 0.85915   -4.407889   -7.888893   -0.383143
-1.25E-05   -0.036411  -42.898802
 1.00000   -4.407889   -7.888893   -0.383143
-1.25E-05   -0.147690  -49.531823

 COMB DB-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    1.071933   42.342442    0.475145
 0.001774   0.530061   30.271239
 0.57745    1.071933   42.342442    0.475145
 0.001774   0.330795   22.241304
 0.71830    1.071933   42.342442    0.475145
 0.001774   0.131536   15.353430
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    3348

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.85915    1.071933   42.342442    0.475145
 0.001774   0.088175   12.146499
 1.00000    1.071933   42.342442    0.475145
 0.001774   0.353742   15.224703

 COMB DB-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -8.755576  -13.545438   -0.633152
-0.000307   -0.708443  -29.734778
 0.57745   -8.755576  -13.545438   -0.633152
-0.000307   -0.442916  -36.574541
 0.71830   -8.755576  -13.545438   -0.633152
-0.000307   -0.178032  -46.016413
 0.85915   -8.755576  -13.545438   -0.633152
-0.000307   -0.068139  -58.095950
 1.00000   -8.755576  -13.545438   -0.633152
-0.000307   -0.266999  -70.930960

 COMB DB-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    1.142769   96.098564    0.529689
 0.001423   0.589388   176.425711
 0.57745    1.142769   96.098564    0.529689
 0.001423   0.367249   144.819381
 0.71830    1.142769   96.098564    0.529689
 0.001423   0.145119   113.827761
 0.85915    1.142769   96.098564    0.529689
 0.001423   0.109328   85.655411
 1.00000    1.142769   96.098564    0.529689
 0.001423   0.439544   61.381957

 COMB DB-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661  -12.134208  -10.514048   -0.786960
-5.36E-05   -0.880715  -27.535236
 0.57745  -12.134208  -10.514048   -0.786960
-5.36E-05   -0.550718  -34.394055
 0.71830  -12.134208  -10.514048   -0.786960
-5.36E-05   -0.220712  -42.618270
 0.85915  -12.134208  -10.514048   -0.786960
-5.36E-05   -0.077109  -52.591858
 1.00000  -12.134208  -10.514048   -0.786960
-5.36E-05   -0.299170  -62.977865

 COMB DB-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    7.856528   85.534574    0.664983
 0.004680   0.740839   164.217652
 0.57745    7.856528   85.534574    0.664983
 0.004680   0.461962   138.232601
 0.71830    7.856528   85.534574    0.664983
 0.004680   0.183075   121.382209
 0.85915    7.856528   85.534574    0.664983
 0.004680   0.155599   119.262285
 1.00000    7.856528   85.534574    0.664983
 0.004680   0.580657   132.122016

 COMB DB-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661  -10.449176  -93.443096   -1.017518
-0.004083   -1.122131  -84.922485
 0.57745  -10.449176  -93.443096   -1.017518
-0.004083   -0.701468  -59.909163
 0.71830  -10.449176  -93.443096   -1.017518
-0.004083   -0.287421  -48.221545
 0.85915  -10.449176  -93.443096   -1.017518
-0.004083   -0.103924  -45.256353
 1.00000  -10.449176  -93.443096   -1.017518
-0.004083   -0.374679  -55.241702

 COMB DB-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    0.586945   40.197147    0.218622
 0.000648   0.241732   70.610235
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    3349

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.57745    0.586945   40.197147    0.218622
 0.000648   0.150048   54.368512
 0.71830    0.586945   40.197147    0.218622
 0.000648   0.058365   38.489063
 0.85915    0.586945   40.197147    0.218622
 0.000648   0.033275   23.221298
 1.00000    0.586945   40.197147    0.218622
 0.000648   0.132978   13.932909

 COMB DB-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -5.339937   -3.099168   -0.237753
-0.000175   -0.265854   -6.635041
 0.57745   -5.339937   -3.099168   -0.237753
-0.000175   -0.166145   -5.565575
 0.71830   -5.339937   -3.099168   -0.237753
-0.000175   -0.066463   -6.168515
 0.85915   -5.339937   -3.099168   -0.237753
-0.000175   -0.033375   -9.019387
 1.00000   -5.339937   -3.099168   -0.237753
-0.000175   -0.125003  -12.435267

 COMB DB-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    4.708788   89.202108    0.335394
 0.005202   0.371215   211.492274
 0.57745    4.708788   89.202108    0.335394
 0.005202   0.230554   177.208231
 0.71830    4.708788   89.202108    0.335394
 0.005202   0.089892   153.151884
 0.85915    4.708788   89.202108    0.335394
 0.005202   0.102610   143.494537
 1.00000    4.708788   89.202108    0.335394
 0.005202   0.348801   137.837107

 COMB DB-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -8.203159  -61.206321   -0.586658
-0.004937   -0.637621  -25.648042
 0.57745   -8.203159  -61.206321   -0.586658
-0.004937   -0.391669   -6.745531
 0.71830   -8.203159  -61.206321   -0.586658
-0.004937   -0.162842   -6.062226
 0.85915   -8.203159  -61.206321   -0.586658
-0.004937   -0.061915   -8.906672
 1.00000   -8.203159  -61.206321   -0.586658
-0.004937   -0.191407  -12.429104

 COMB DB-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    4.669566   95.258540    0.511289
 0.005400   0.468175   189.338805
 0.57745    4.669566   95.258540    0.511289
 0.005400   0.353748   159.284877
 0.71830    4.669566   95.258540    0.511289
 0.005400   0.139322   138.424486
 0.85915    4.669566   95.258540    0.511289
 0.005400   0.132516   132.163892
 1.00000    4.669566   95.258540    0.511289
 0.005400   0.476203   129.332873

 COMB DB-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661  -11.013582  -60.817057   -0.819130
-0.004451   -0.899999  -34.397221
 0.57745  -11.013582  -60.817057   -0.819130
-0.004451   -0.556534  -23.946575
 0.71830  -11.013582  -60.817057   -0.819130
-0.004451   -0.228553  -29.693434
 0.85915  -11.013582  -60.817057   -0.819130
-0.004451   -0.085186  -38.288127
 1.00000  -11.013582  -60.817057   -0.819130
-0.004451   -0.289512  -47.410578
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    3350

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    9.833229   84.378789    0.736580
 0.003742   0.820086   162.676012
 0.57745    9.833229   84.378789    0.736580
 0.003742   0.511182   135.786317
 0.71830    9.833229   84.378789    0.736580
 0.003742   0.202258   115.376159
 0.85915    9.833229   84.378789    0.736580
 0.003742   0.161656   106.667737
 1.00000    9.833229   84.378789    0.736580
 0.003742   0.609793   116.268431

 COMB DB-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -9.687643  -104.031087   -1.075606
-0.003705   -1.197753  -110.801768
 0.57745   -9.687643  -104.031087   -1.075606
-0.003705   -0.746265  -78.685645
 0.71830   -9.687643  -104.031087   -1.075606
-0.003705   -0.305516  -57.447527
 0.85915   -9.687643  -104.031087   -1.075606
-0.003705   -0.113235  -38.331212
 1.00000   -9.687643  -104.031087   -1.075606
-0.003705   -0.415519  -43.779589

 COMB DB-G3-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    9.583006    9.714593    0.535749
7.30E-06    0.598024   11.394204
 0.57745    9.583006    9.714593    0.535749
7.30E-06    0.373341    7.616067
 0.71830    9.583006    9.714593    0.535749
7.30E-06    0.148653    4.323555
 0.85915    9.583006    9.714593    0.535749
7.30E-06    0.095345    3.686719
 1.00000    9.583006    9.714593    0.535749
7.30E-06    0.373611    3.186212

 COMB DB-G3-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -0.825505  -76.333896   -0.671552
-0.001114   -0.755072  -139.891044
 0.57745   -0.825505  -76.333896   -0.671552
-0.001114   -0.474151  -107.923090
 0.71830   -0.825505  -76.333896   -0.671552
-0.001114   -0.193876  -75.146337
 0.85915   -0.825505  -76.333896   -0.671552
-0.001114   -0.076021  -44.050008
 1.00000   -0.825505  -76.333896   -0.671552
-0.001114   -0.300697  -12.148157

 COMB DB-G3-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   16.104370   35.377438    0.704347
 0.005766   0.786376   90.188193
 0.57745   16.104370   35.377438    0.704347
 0.005766   0.490963   79.096650
 0.71830   16.104370   35.377438    0.704347
 0.005766   0.195547   80.611136
 0.85915   16.104370   35.377438    0.704347
 0.005766   0.172487   100.931266
 1.00000   16.104370   35.377438    0.704347
 0.005766   0.607106   122.606050

 COMB DB-G3-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -2.164327  -164.699146   -1.046782
-0.007270   -1.153858  -180.219390
 0.57745   -2.164327  -164.699146   -1.046782
-0.007270   -0.715713  -119.402994
 0.71830   -2.164327  -164.699146   -1.046782
-0.007270   -0.298583   -79.025052
 0.85915   -2.164327  -164.699146   -1.046782
-0.007270   -0.113042   -40.646692
 1.00000   -2.164327  -164.699146   -1.046782
-0.007270   -0.395153   -10.111339
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    3351

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DB-G3-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   13.891703   80.234534    0.771008
 0.004169   0.858334   188.221181
 0.57745   13.891703   80.234534    0.771008
 0.004169   0.534987   157.292040
 0.71830   13.891703   80.234534    0.771008
 0.004169   0.211627   135.154776
 0.85915   13.891703   80.234534    0.771008
 0.004169   0.174656   126.192090
 1.00000   13.891703   80.234534    0.771008
 0.004169   0.639653   118.922311

 COMB DB-G3-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -6.770616  -134.989260   -1.118060
-0.005242   -1.240175  -162.473236
 0.57745   -6.770616  -134.989260   -1.118060
-0.005242   -0.771995  -111.392053
 0.71830   -6.770616  -134.989260   -1.118060
-0.005242   -0.318254   -74.378662
 0.85915   -6.770616  -134.989260   -1.118060
-0.005242   -0.120914   -38.803561
 1.00000   -6.770616  -134.989260   -1.118060
-0.005242   -0.435036   -11.402419

 COMB DB-G3-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   11.951304   83.074466    0.820132
 0.004027   0.913004   164.262804
 0.57745   11.951304   83.074466    0.820132
 0.004027   0.569059   135.643855
 0.71830   11.951304   83.074466    0.820132
 0.004027   0.225105   115.075920
 0.85915   11.951304   83.074466    0.820132
 0.004027   0.177113   106.478298
 1.00000   11.951304   83.074466    0.820132
 0.004027   0.661115   102.036567

 COMB DB-G3-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -8.966450  -116.190660   -1.161797
-0.004378   -1.291351  -141.155040
 0.57745   -8.966450  -116.190660   -1.161797
-0.004378   -0.804718  -102.281359
 0.71830   -8.966450  -116.190660   -1.161797
-0.004378   -0.330016   -76.044695
 0.85915   -8.966450  -116.190660   -1.161797
-0.004378   -0.126434   -52.272856
 1.00000   -8.966450  -116.190660   -1.161797
-0.004378   -0.462758   -35.657574

 COMB DL-G1-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    0.734097   21.076260    0.363754
 0.000882   0.408080    2.919982
 0.57745    0.734097   21.076260    0.363754
 0.000882   0.255156    2.777640
 0.71830    0.734097   21.076260    0.363754
 0.000882   0.102199    4.557564
 0.85915    0.734097   21.076260    0.363754
 0.000882   0.073445    8.742170
 1.00000    0.734097   21.076260    0.363754
 0.000882   0.297512   12.901310

 COMB DL-G1-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -4.401067  -10.560696   -0.533066
-9.44E-06   -0.595526  -29.516799
 0.57745   -4.401067  -10.560696   -0.533066
-9.44E-06   -0.371934  -34.741335
 0.71830   -4.401067  -10.560696   -0.533066
-9.44E-06   -0.147778  -41.894683
 0.85915   -4.401067  -10.560696   -0.533066
-9.44E-06   -0.047800  -50.286934
 1.00000   -4.401067  -10.560696   -0.533066
-9.44E-06   -0.201454  -58.781293
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    3352

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G1-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    1.234469   48.293955    0.624900
 0.001581   0.698099   32.665727
 0.57745    1.234469   48.293955    0.624900
 0.001581   0.435405   23.666413
 0.71830    1.234469   48.293955    0.624900
 0.001581   0.173338   17.768828
 0.85915    1.234469   48.293955    0.624900
 0.001581   0.112653   16.051036
 1.00000    1.234469   48.293955    0.624900
 0.001581   0.511104   19.799101

 COMB DL-G1-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -8.808024  -16.355143   -0.916690
-0.000235   -1.025208  -36.145587
 0.57745   -8.808024  -16.355143   -0.916690
-0.000235   -0.640654  -42.441845
 0.71830   -8.808024  -16.355143   -0.916690
-0.000235   -0.256102  -52.513026
 0.85915   -8.808024  -16.355143   -0.916690
-0.000235   -0.086830   -65.668727
 1.00000   -8.808024  -16.355143   -0.916690
-0.000235   -0.349049   -81.597271

 COMB DL-G1-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    1.341952   94.921305    0.731907
 0.001327   0.816503   177.493027
 0.57745    1.341952   94.921305    0.731907
 0.001327   0.509044   148.068278
 0.71830    1.341952   94.921305    0.731907
 0.001327   0.201984   121.121561
 0.85915    1.341952   94.921305    0.731907
 0.001327   0.157149   97.495229
 1.00000    1.341952   94.921305    0.731907
 0.001327   0.639363   77.698790

 COMB DL-G1-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661  -11.501812  -14.546860   -1.147782
-6.90E-05   -1.283053  -33.470909
 0.57745  -11.501812  -14.546860   -1.147782
-6.90E-05   -0.801511  -39.335363
 0.71830  -11.501812  -14.546860   -1.147782
-6.90E-05   -0.319000   -47.973083
 0.85915  -11.501812  -14.546860   -1.147782
-6.90E-05   -0.102687   -59.189500
 1.00000  -11.501812  -14.546860   -1.147782
-6.90E-05   -0.410192   -72.224516

 COMB DL-G1-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    7.091756   85.996809    0.968159
 0.003856   1.080794   169.948948
 0.57745    7.091756   85.996809    0.968159
 0.003856   0.674350   145.143666
 0.71830    7.091756   85.996809    0.968159
 0.003856   0.268319   130.039447
 0.85915    7.091756   85.996809    0.968159
 0.003856   0.212546   129.670809
 1.00000    7.091756   85.996809    0.968159
 0.003856   0.821269   142.047866

 COMB DL-G1-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -9.898085  -85.272194   -1.454122
-0.003266   -1.616681  -82.953663
 0.57745   -9.898085  -85.272194   -1.454122
-0.003266   -1.006709  -59.358950
 0.71830   -9.898085  -85.272194   -1.454122
-0.003266   -0.404553  -50.637519
 0.85915   -9.898085  -85.272194   -1.454122
-0.003266   -0.146437  -51.249819
 1.00000   -9.898085  -85.272194   -1.454122
-0.003266   -0.543785  -63.756453
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    3353

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-1 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    0.590309   37.686740    0.273745
 0.000542   0.303410   68.865703
 0.57745    0.590309   37.686740    0.273745
 0.000542   0.188457   53.480171
 0.71830    0.590309   37.686740    0.273745
 0.000542   0.073508   38.791518
 0.85915    0.590309   37.686740    0.273745
 0.000542   0.055319   25.469641
 1.00000    0.590309   37.686740    0.273745
 0.000542   0.226105   15.765900

 COMB DL-G2-1 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -5.175931   -3.548483   -0.406429
-0.000179   -0.455253   -6.550929
 0.57745   -5.175931   -3.548483   -0.406429
-0.000179   -0.284708   -6.143221
 0.71830   -5.175931   -3.548483   -0.406429
-0.000179   -0.113878   -6.780567
 0.85915   -5.175931   -3.548483   -0.406429
-0.000179   -0.040319   -8.507120
 1.00000   -5.175931   -3.548483   -0.406429
-0.000179   -0.155244  -12.007746

 COMB DL-G2-2 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    4.206844   82.537382    0.490090
 0.004522   0.544914   213.862736
 0.57745    4.206844   82.537382    0.490090
 0.004522   0.339240   182.120147
 0.71830    4.206844   82.537382    0.490090
 0.004522   0.133584   160.103617
 0.85915    4.206844   82.537382    0.490090
 0.004522   0.133621   150.154842
 1.00000    4.206844   82.537382    0.490090
 0.004522   0.481844   143.860378

 COMB DL-G2-2 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -7.522163  -53.366377   -0.832189
-0.004290   -0.914752  -25.945379
 0.57745   -7.522163  -53.366377   -0.832189
-0.004290   -0.565649   -6.890347
 0.71830   -7.522163  -53.366377   -0.832189
-0.004290   -0.229821   -6.441690
 0.85915   -7.522163  -53.366377   -0.832189
-0.004290   -0.087151   -8.379229
 1.00000   -7.522163  -53.366377   -0.832189
-0.004290   -0.278922  -12.171783

 COMB DL-G2-3 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    4.173269   93.065499    0.720791
 0.004765   0.803222   191.536987
 0.57745    4.173269   93.065499    0.720791
 0.004765   0.500506   163.729427
 0.71830    4.173269   93.065499    0.720791
 0.004765   0.197987   145.727667
 0.85915    4.173269   93.065499    0.720791
 0.004765   0.177222   140.477553
 1.00000    4.173269   93.065499    0.720791
 0.004765   0.664004   137.926031

 COMB DL-G2-3 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661  -10.393358  -55.652731   -1.162532
-0.003869   -1.285923  -37.307081
 0.57745  -10.393358  -55.652731   -1.162532
-0.003869   -0.798392   -25.912133
 0.71830  -10.393358  -55.652731   -1.162532
-0.003869   -0.322072   -32.167399
 0.85915  -10.393358  -55.652731   -1.162532
-0.003869   -0.116747   -41.004364
 1.00000  -10.393358  -55.652731   -1.162532
-0.003869   -0.406805   -52.709289
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING          LOAD          >
                                    3354

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 COMB DL-G2-4 ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661    8.741662   83.919578    1.080424
 0.003114   1.205035   164.610853
 0.57745    8.741662   83.919578    1.080424
 0.003114   0.751638   138.966413
 0.71830    8.741662   83.919578    1.080424
 0.003114   0.298376   120.718100
 0.85915    8.741662   83.919578    1.080424
 0.003114   0.225494   113.760357
 1.00000    8.741662   83.919578    1.080424
 0.003114   0.878865   125.785968

 COMB DL-G2-4 ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43661   -9.084491  -96.182454   -1.561266
-0.003066   -1.739841  -104.240902
 0.57745   -9.084491  -96.182454   -1.561266
-0.003066   -1.084852   -73.839841
 0.71830   -9.084491  -96.182454   -1.561266
-0.003066   -0.436399   -55.420740
 0.85915   -9.084491  -96.182454   -1.561266
-0.003066   -0.161650   -41.830427
 1.00000   -9.084491  -96.182454   -1.561266
-0.003066   -0.607724   -49.839817
```

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	8.621389	12.104326	0.814272
4.31E-06	0.908963	12.545454	
0.57745	8.621389	12.104326	0.814272
4.31E-06	0.567529	7.834794	
0.71830	8.621389	12.104326	0.814272
4.31E-06	0.226017	4.896497	
0.85915	8.621389	12.104326	0.814272
4.31E-06	0.138741	4.267369	
1.00000	8.621389	12.104326	0.814272
4.31E-06	0.556981	3.891485	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.700071	-73.491547	-0.996743
-0.001033	-1.116845	-137.019720	
0.57745	-0.700071	-73.491547	-0.996743
-0.001033	-0.698981	-106.460000	
0.71830	-0.700071	-73.491547	-0.996743
-0.001033	-0.281318	-77.542016	
0.85915	-0.700071	-73.491547	-0.996743
-0.001033	-0.115355	-50.024580	
1.00000	-0.700071	-73.491547	-0.996743
-0.001033	-0.456831	-22.603071	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.866472	36.303783	1.109434
0.005803	1.239036	95.954033	
0.57745	14.866472	36.303783	1.109434
0.005803	0.773825	84.669838	
0.71830	14.866472	36.303783	1.109434
0.005803	0.308374	88.395606	
0.85915	14.866472	36.303783	1.109434
0.005803	0.235042	109.969362	
1.00000	14.866472	36.303783	1.109434
0.005803	0.857659	132.848327	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-1.787282	-157.884817	-1.489089
-0.007192	-1.646333	-176.591650	
0.57745	-1.787282	-157.884817	-1.489089
-0.007192	-1.021835	-113.918332	
0.71830	-1.787282	-157.884817	-1.489089
-0.007192	-0.416121	-78.155484	
0.85915	-1.787282	-157.884817	-1.489089
-0.007192	-0.179330	-46.012290	
1.00000	-1.787282	-157.884817	-1.489089
-0.007192	-0.624853	-16.650725	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3355

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	12.876294	73.982422	1.177380
0.004394	1.312993	185.485960	
0.57745	12.876294	73.982422	1.177380
0.004394	0.819226	157.516255	
0.71830	12.876294	73.982422	1.177380
0.004394	0.325245	140.669540	
0.85915	12.876294	73.982422	1.177380
0.004394	0.246466	137.120851	
1.00000	12.876294	73.982422	1.177380
0.004394	0.930498	134.794504	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-5.869679	-131.357923	-1.633252
-0.005386	-1.812917	-158.095955	
0.57745	-5.869679	-131.357923	-1.633252
-0.005386	-1.128178	-105.627942	
0.71830	-5.869679	-131.357923	-1.633252
-0.005386	-0.456544	-72.850055	
0.85915	-5.869679	-131.357923	-1.633252
-0.005386	-0.184270	-42.939396	
1.00000	-5.869679	-131.357923	-1.633252
-0.005386	-0.664010	-15.868686	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.103452	80.659748	1.209196
0.004186	1.348306	162.994835	
0.57745	11.103452	80.659748	1.209196
0.004186	0.840980	135.980020	
0.71830	11.103452	80.659748	1.209196
0.004186	0.333508	120.086244	
0.85915	11.103452	80.659748	1.209196
0.004186	0.250910	116.990308	
1.00000	11.103452	80.659748	1.209196
0.004186	0.962244	117.018682	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-8.337541	-114.456528	-1.697356
-0.004505	-1.887693	-139.184610	
0.57745	-8.337541	-114.456528	-1.697356
-0.004505	-1.175987	-98.739234	
0.71830	-8.337541	-114.456528	-1.697356
-0.004505	-0.474859	-76.183095	
0.85915	-8.337541	-114.456528	-1.697356
-0.004505	-0.185596	-54.440391	
1.00000	-8.337541	-114.456528	-1.697356
-0.004505	-0.681097	-42.046441	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	16.104370	96.098564	0.820132
0.005766	0.913004	211.492274	
0.57745	16.104370	96.098564	0.820132
0.005766	0.569059	177.208231	
0.71830	16.104370	96.098564	0.820132
0.005766	0.225105	153.151884	
0.85915	16.104370	96.098564	0.820132
0.005766	0.177113	143.494537	
1.00000	16.104370	96.098564	0.820132
0.005766	0.661115	137.837107	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.134208	-164.699146	-1.161797
-0.007270	-1.291351	-180.219390	
0.57745	-12.134208	-164.699146	-1.161797
-0.007270	-0.804718	-119.402994	
0.71830	-12.134208	-164.699146	-1.161797
-0.007270	-0.330016	-79.025052	
0.85915	-12.134208	-164.699146	-1.161797
-0.007270	-0.126434	-58.095950	
1.00000	-12.134208	-164.699146	-1.161797
-0.007270	-0.462758	-70.930960	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3356

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.866472	94.921305	1.209196
0.005803	1.348306	213.862736	
0.57745	14.866472	94.921305	1.209196
0.005803	0.840980	182.120147	
0.71830	14.866472	94.921305	1.209196
0.005803	0.333508	160.081017	
0.85915	14.866472	94.921305	1.209196
0.005803	0.250910	150.154842	
1.00000	14.866472	94.921305	1.209196
0.005803	0.962244	143.860378	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-11.501812	-157.884817	-1.697356
-0.007192	-1.887693	-176.591650	
0.57745	-11.501812	-157.884817	-1.697356
-0.007192	-1.175987	-113.918332	
0.71830	-11.501812	-157.884817	-1.697356
-0.007192	-0.474859	-78.155484	
0.85915	-11.501812	-157.884817	-1.697356
-0.007192	-0.185596	-65.668727	
1.00000	-11.501812	-157.884817	-1.697356
-0.007192	-0.681097	-81.597271	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	16.104370	96.098564	1.209196
0.005803	1.348306	213.862736	
0.57745	16.104370	96.098564	1.209196
0.005803	0.840980	182.120147	
0.71830	16.104370	96.098564	1.209196
0.005803	0.333508	160.081017	
0.85915	16.104370	96.098564	1.209196
0.005803	0.250910	150.154842	
1.00000	16.104370	96.098564	1.209196
0.005803	0.962244	143.860378	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.134208	-164.699146	-1.697356
-0.007270	-1.887693	-180.219390	
0.57745	-12.134208	-164.699146	-1.697356
-0.007270	-1.175987	-119.402994	
0.71830	-12.134208	-164.699146	-1.697356
-0.007270	-0.474859	-79.025052	
0.85915	-12.134208	-164.699146	-1.697356
-0.007270	-0.185596	-65.668727	
1.00000	-12.134208	-164.699146	-1.697356
-0.007270	-0.681097	-81.597271	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	16.104370	96.098564	1.209196
0.005803	1.348306	213.862736	
0.57745	16.104370	96.098564	1.209196
0.005803	0.840980	182.120147	
0.71830	16.104370	96.098564	1.209196
0.005803	0.333508	160.081017	
0.85915	16.104370	96.098564	1.209196
0.005803	0.250910	150.154842	
1.00000	16.104370	96.098564	1.209196
0.005803	0.962244	143.860378	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.134208	-164.699146	-1.697356
-0.007270	-1.887693	-180.219390	
0.57745	-12.134208	-164.699146	-1.697356
-0.007270	-1.175987	-119.402994	
0.71830	-12.134208	-164.699146	-1.697356
-0.007270	-0.474859	-79.025052	
0.85915	-12.134208	-164.699146	-1.697356
-0.007270	-0.185596	-65.668727	
1.00000	-12.134208	-164.699146	-1.697356
-0.007270	-0.681097	-81.597271	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3357

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 317 ========== LENGTH = 2.977509

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.527322	16.760432	0.281409
0.000530	0.161393	8.423550	
0.14085	0.527322	16.760432	0.281409
0.000530	0.043362	11.512853	
0.28170	0.527322	16.760432	0.281409
0.000530	0.106906	14.657682	
0.42255	0.527322	16.760432	0.281409
0.000530	0.271668	17.852928	
0.56339	0.527322	16.760432	0.281409
0.000530	0.436447	21.062751	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.365142	-7.680899	-0.392913
-6.89E-06	-0.222671	-49.547705	
0.14085	-4.365142	-7.680899	-0.392913
-6.89E-06	-0.057856	-56.290433	
0.28170	-4.365142	-7.680899	-0.392913
-6.89E-06	-0.074856	-63.102067	
0.42255	-4.365142	-7.680899	-0.392913
-6.89E-06	-0.192828	-69.923111	
0.56339	-4.365142	-7.680899	-0.392913
-6.89E-06	-0.310813	-76.771090	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.967821	43.398749	0.470397
0.001167	0.266045	15.249975	
0.14085	0.967821	43.398749	0.470397
0.001167	0.069260	18.101877	
0.28170	0.967821	43.398749	0.470397
0.001167	0.178048	21.400376	
0.42255	0.967821	43.398749	0.470397
0.001167	0.452396	25.320043	
0.56339	0.967821	43.398749	0.470397
0.001167	0.727381	29.899406	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.763009	-11.335523	-0.655698
-0.000187	-0.372641	-70.960328	
0.14085	-8.763009	-11.335523	-0.655698
-0.000187	-0.097510	-86.332490	
0.28170	-8.763009	-11.335523	-0.655698
-0.000187	-0.128532	-102.030533	
0.42255	-8.763009	-11.335523	-0.655698
-0.000187	-0.325799	-118.052748	
0.56339	-8.763009	-11.335523	-0.655698
-0.000187	-0.523076	-135.069381	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.169046	94.690845	0.511386
0.001322	0.287559	61.360605	
0.14085	1.169046	94.690845	0.511386
0.001322	0.073291	44.620813	
0.28170	1.169046	94.690845	0.511386
0.001322	0.218062	42.726982	
0.42255	1.169046	94.690845	0.511386
0.001322	0.547124	44.363282	
0.56339	1.169046	94.690845	0.511386
0.001322	0.876284	47.125596	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.968499	-10.267273	-0.784878
-0.000228	-0.440697	-62.995545	
0.14085	-11.968499	-10.267273	-0.784878
-0.000228	-0.111724	-73.302967	
0.28170	-11.968499	-10.267273	-0.784878
-0.000228	-0.141375	-87.935929	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3358

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42255	-11.968499	-10.267273	-0.784878
-0.000228	-0.355839	-125.558369	
0.56339	-11.968499	-10.267273	-0.784878
-0.000228	-0.570302	-164.802897	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.589213	119.129161	0.654436
0.004589	0.368871	132.302019	
0.14085	5.589213	119.129161	0.654436
0.004589	0.101759	120.755662	
0.28170	5.589213	119.129161	0.654436
0.004589	0.289456	121.236306	
0.42255	5.589213	119.129161	0.654436
0.004589	0.718106	133.190897	
0.56339	5.589213	119.129161	0.654436
0.004589	1.159204	153.849341	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.141320	-56.414868	-1.051792
-0.003989	-0.607064	-55.248301	
0.14085	-12.141320	-56.414868	-1.051792
-0.003989	-0.166159	-65.312776	
0.28170	-12.141320	-56.414868	-1.051792
-0.003989	-0.180044	-79.323635	
0.42255	-12.141320	-56.414868	-1.051792
-0.003989	-0.454504	-111.858266	
0.56339	-12.141320	-56.414868	-1.051792
-0.003989	-0.728958	-153.382617	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.596677	39.604248	0.189228
0.000536	0.039347	13.124608	
0.14085	0.596677	39.604248	0.189228
0.000536	0.024617	10.087125	
0.28170	0.596677	39.604248	0.189228
0.000536	0.067670	9.421021	
0.42255	0.596677	39.604248	0.189228
0.000536	0.171938	9.576843	
0.56339	0.596677	39.604248	0.189228
0.000536	0.276227	9.942315	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.278278	-2.935455	-0.248673
-7.98E-05	-0.140929	-12.440186	
0.14085	-5.278278	-2.935455	-0.248673
-7.98E-05	-0.036623	-16.284534	
0.28170	-5.278278	-2.935455	-0.248673
-7.98E-05	-0.054841	-31.524365	
0.42255	-5.278278	-2.935455	-0.248673
-7.98E-05	-0.141401	-47.278972	
0.56339	-5.278278	-2.935455	-0.248673
-7.98E-05	-0.213560	-63.524718	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.519494	135.447419	0.301706
0.005613	0.166880	138.098148	
0.14085	1.519494	135.447419	0.301706
0.005613	0.050297	95.094504	
0.28170	1.519494	135.447419	0.301706
0.005613	0.161346	67.988289	
0.42255	1.519494	135.447419	0.301706
0.005613	0.386466	56.456523	
0.56339	1.519494	135.447419	0.301706
0.005613	0.628635	56.598343	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.586654	-9.939445	-0.577450
-0.005088	-0.342610	-12.425586	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3359

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	-10.586654	-9.939445	-0.577450
-0.005088	-0.100840	-16.064280	
0.28170	-10.586654	-9.939445	-0.577450
-0.005088	-0.146166	-24.990140	
0.42255	-10.586654	-9.939445	-0.577450
-0.005088	-0.212695	-58.266695	
0.56339	-10.586654	-9.939445	-0.577450
-0.005088	-0.339229	-103.772352	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.794572	136.882386	0.484593
0.005491	0.271503	129.576679	
0.14085	1.794572	136.882386	0.484593
0.005491	0.077266	93.135549	
0.28170	1.794572	136.882386	0.484593
0.005491	0.226858	70.964148	
0.42255	1.794572	136.882386	0.484593
0.005491	0.555525	62.836482	
0.56339	1.794572	136.882386	0.484593
0.005491	0.899556	65.245743	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.129599	-14.382109	-0.820347
-0.004598	-0.478920	-47.420583	
0.14085	-13.129599	-14.382109	-0.820347
-0.004598	-0.135175	-56.578419	
0.28170	-13.129599	-14.382109	-0.820347
-0.004598	-0.135045	-70.926366	
0.42255	-13.129599	-14.382109	-0.820347
-0.004598	-0.338281	-107.069035	
0.56339	-13.129599	-14.382109	-0.820347
-0.004598	-0.541513	-154.202397	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.032564	111.523422	0.718898
0.003815	0.404351	116.394886	
0.14085	8.032564	111.523422	0.718898
0.003815	0.108750	115.355970	
0.28170	8.032564	111.523422	0.718898
0.003815	0.310427	126.687312	
0.42255	8.032564	111.523422	0.718898
0.003815	0.773736	148.063988	
0.56339	8.032564	111.523422	0.718898
0.003815	1.247139	176.566076	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.040837	-74.327458	-1.128824
-0.003624	-0.648068	-43.779778	
0.14085	-11.040837	-74.327458	-1.128824
-0.003624	-0.174880	-53.329205	
0.28170	-11.040837	-74.327458	-1.128824
-0.003624	-0.198700	-66.984896	
0.42255	-11.040837	-74.327458	-1.128824
-0.003624	-0.500212	-99.364314	
0.56339	-11.040837	-74.327458	-1.128824
-0.003624	-0.801702	-139.287777	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.680708	9.879255	0.541937
0.000156	0.306178	3.182632	
0.14085	9.680708	9.879255	0.541937
0.000156	0.078867	21.836454	
0.28170	9.680708	9.879255	0.541937
0.000156	0.202578	53.818106	
0.42255	9.680708	9.879255	0.541937
0.000156	0.514783	86.030088	
0.56339	9.680708	9.879255	0.541937
0.000156	0.827032	118.331998	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3360

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.816208	-77.173704	-0.744563
-0.001068	-0.421983	-12.185901	
0.14085	-0.816208	-77.173704	-0.744563
-0.001068	-0.109705	-11.294719	
0.28170	-0.816208	-77.173704	-0.744563
-0.001068	-0.148364	-14.580214	
0.42255	-0.816208	-77.173704	-0.744563
-0.001068	-0.375648	-18.116182	
0.56339	-0.816208	-77.173704	-0.744563
-0.001068	-0.602924	-22.075574	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.317433	93.132103	0.713722
0.005971	0.403235	122.953716	
0.14085	12.317433	93.132103	0.713722
0.005971	0.115813	125.752063	
0.28170	12.317433	93.132103	0.713722
0.005971	0.309057	135.717051	
0.42255	12.317433	93.132103	0.713722
0.005971	0.764214	162.127690	
0.56339	12.317433	93.132103	0.713722
0.005971	1.240091	202.015127	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.183243	-103.436677	-1.134723
-0.007131	-0.666076	-10.090344	
0.14085	-5.183243	-103.436677	-1.134723
-0.007131	-0.190353	-14.654565	
0.28170	-5.183243	-103.436677	-1.134723
-0.007131	-0.195335	-19.309443	
0.42255	-5.183243	-103.436677	-1.134723
-0.007131	-0.494683	-26.750670	
0.56339	-5.183243	-103.436677	-1.134723
-0.007131	-0.794015	-51.365851	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.337526	119.124835	0.754934
0.004596	0.424117	119.131229	
0.14085	11.337526	119.124835	0.754934
0.004596	0.115713	116.638465	
0.28170	11.337526	119.124835	0.754934
0.004596	0.326042	129.228122	
0.42255	11.337526	119.124835	0.754934
0.004596	0.808072	155.060937	
0.56339	11.337526	119.124835	0.754934
0.004596	1.304342	190.710768	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.755099	-93.219211	-1.183374
-0.005279	-0.682972	-11.380828	
0.14085	-8.755099	-93.219211	-1.183374
-0.005279	-0.187053	-15.026340	
0.28170	-8.755099	-93.219211	-1.183374
-0.005279	-0.209073	-24.163284	
0.42255	-8.755099	-93.219211	-1.183374
-0.005279	-0.525680	-55.001485	
0.56339	-8.755099	-93.219211	-1.183374
-0.005279	-0.842287	-95.737019	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.846116	114.948590	0.798796
0.004179	0.448812	102.216894	
0.14085	9.846116	114.948590	0.798796
0.004179	0.120621	101.795602	
0.28170	9.846116	114.948590	0.798796
0.004179	0.336877	113.962268	
0.42255	9.846116	114.948590	0.798796
0.004179	0.839633	137.135331	
0.56339	9.846116	114.948590	0.798796
0.004179	1.354177	168.451379	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3361

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.574194	-81.557745	-1.226923
-0.004373	-0.705803	-35.652370	
0.14085	-10.574194	-81.557745	-1.226923
-0.004373	-0.191535	-44.834964	
0.28170	-10.574194	-81.557745	-1.226923
-0.004373	-0.221232	-58.107867	
0.42255	-10.574194	-81.557745	-1.226923
-0.004373	-0.556182	-89.791127	
0.56339	-10.574194	-81.557745	-1.226923
-0.004373	-0.891178	-130.091274	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.709441	20.810025	0.395309
0.000501	0.226703	12.918088	
0.14085	0.709441	20.810025	0.395309
0.000501	0.060395	17.152461	
0.28170	0.709441	20.810025	0.395309
0.000501	0.145709	21.428415	
0.42255	0.709441	20.810025	0.395309
0.000501	0.368465	25.737784	
0.56339	0.709441	20.810025	0.395309
0.000501	0.590761	30.058462	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.353910	-10.326961	-0.529798
-4.03E-06	-0.297658	-58.804540	
0.14085	-4.353910	-10.326961	-0.529798
-4.03E-06	-0.075487	-67.272646	
0.28170	-4.353910	-10.326961	-0.529798
-4.03E-06	-0.104221	-75.829606	
0.42255	-4.353910	-10.326961	-0.529798
-4.03E-06	-0.270070	-84.425586	
0.56339	-4.353910	-10.326961	-0.529798
-4.03E-06	-0.436001	-93.039755	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.153889	48.635212	0.639267
0.001009	0.362420	19.826211	
0.14085	1.153889	48.635212	0.639267
0.001009	0.094030	24.500194	
0.28170	1.153889	48.635212	0.639267
0.001009	0.253743	29.757493	
0.42255	1.153889	48.635212	0.639267
0.001009	0.642243	35.432865	
0.56339	1.153889	48.635212	0.639267
0.001009	1.030945	41.404871	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.793622	-14.868501	-0.925445
-0.000114	-0.521287	-81.639203	
0.14085	-8.793622	-14.868501	-0.925445
-0.000114	-0.133085	-99.182968	
0.28170	-8.793622	-14.868501	-0.925445
-0.000114	-0.172618	-117.264717	
0.42255	-8.793622	-14.868501	-0.925445
-0.000114	-0.440725	-136.316171	
0.56339	-8.793622	-14.868501	-0.925445
-0.000114	-0.709223	-156.054935	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.343681	93.659520	0.732022
0.001171	0.412458	77.695073	
0.14085	1.343681	93.659520	0.732022
0.001171	0.104721	62.394909	
0.28170	1.343681	93.659520	0.732022
0.001171	0.316292	54.279798	
0.42255	1.343681	93.659520	0.732022
0.001171	0.796427	54.639068	
0.56339	1.343681	93.659520	0.732022
0.001171	1.274091	57.779780	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3362

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.370641	-14.258539	-1.140601
-0.000223	-0.637651	-72.253759	
0.14085	-11.370641	-14.258539	-1.140601
-0.000223	-0.156604	-85.411727	
0.28170	-11.370641	-14.258539	-1.140601
-0.000223	-0.200436	-102.660325	
0.42255	-11.370641	-14.258539	-1.140601
-0.000223	-0.507481	-136.802423	
0.56339	-11.370641	-14.258539	-1.140601
-0.000223	-0.814806	-173.549976	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.399935	111.204395	0.975855
0.003669	0.551653	142.045336	
0.14085	5.399935	111.204395	0.975855
0.003669	0.150717	135.082427	
0.28170	5.399935	111.204395	0.975855
0.003669	0.404568	134.096191	
0.42255	5.399935	111.204395	0.975855
0.003669	1.012464	146.385605	
0.56339	5.399935	111.204395	0.975855
0.003669	1.628491	166.292906	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.256379	-57.843300	-1.468017
-0.003143	-0.833771	-63.769584	
0.14085	-11.256379	-57.843300	-1.468017
-0.003143	-0.218287	-76.580264	
0.28170	-11.256379	-57.843300	-1.468017
-0.003143	-0.267386	-93.013860	
0.42255	-11.256379	-57.843300	-1.468017
-0.003143	-0.793567	-110.228054	
0.56339	-11.256379	-57.843300	-1.468017
-0.003143	-1.086095	-163.744645	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.600837	37.225069	0.247690
0.000460	0.136537	15.761048	
0.14085	0.600837	37.225069	0.247690
0.000460	0.032627	9.877555	
0.28170	0.600837	37.225069	0.247690
0.000460	0.114298	9.336756	
0.42255	0.600837	37.225069	0.247690
0.000460	0.288360	9.734703	
0.56339	0.600837	37.225069	0.247690
0.000460	0.462161	10.470586	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.145887	-3.358871	-0.414130
-5.04E-06	-0.232335	-12.016176	
0.14085	-5.145887	-3.358871	-0.414130
-5.04E-06	-0.058728	-17.916503	
0.28170	-5.145887	-3.358871	-0.414130
-5.04E-06	-0.070436	-31.033946	
0.42255	-5.145887	-3.358871	-0.414130
-5.04E-06	-0.174672	-45.629745	
0.56339	-5.145887	-3.358871	-0.414130
-5.04E-06	-0.278818	-60.633117	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.576673	121.383677	0.463193
0.004804	0.259415	143.870664	
0.14085	1.576673	121.383677	0.463193
0.004804	0.078641	104.796545	
0.28170	1.576673	121.383677	0.463193
0.004804	0.229010	73.695133	
0.42255	1.576673	121.383677	0.463193
0.004804	0.563052	61.402324	
0.56339	1.576673	121.383677	0.463193
0.004804	0.909594	60.082302	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3363

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.676960	-10.916771	-0.826858
-0.004400	-0.478287	-12.170399	
0.14085	-9.676960	-10.916771	-0.826858
-0.004400	-0.132808	-16.314211	
0.28170	-9.676960	-10.916771	-0.826858
-0.004400	-0.130655	-26.270047	
0.42255	-9.676960	-10.916771	-0.826858
-0.004400	-0.325050	-53.619621	
0.56339	-9.676960	-10.916771	-0.826858
-0.004400	-0.519388	-96.047018	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.796472	127.951583	0.708085
0.004736	0.399039	137.948381	
0.14085	1.796472	127.951583	0.708085
0.004736	0.114355	105.642526	
0.28170	1.796472	127.951583	0.708085
0.004736	0.320593	80.599667	
0.42255	1.796472	127.951583	0.708085
0.004736	0.796611	72.581120	
0.56339	1.796472	127.951583	0.708085
0.004736	1.283581	74.451062	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.318326	-17.060185	-1.161636
-0.003982	0.665727	-52.730511	
0.14085	-12.318326	-17.060185	-1.161636
-0.003982	-0.179775	-63.873377	
0.28170	-12.318326	-17.060185	-1.161636
-0.003982	-0.195403	-80.617256	
0.42255	-12.318326	-17.060185	-1.161636
-0.003982	-0.492642	-112.874236	
0.56339	-12.318326	-17.060185	-1.161636
-0.003982	-0.789632	-158.751473	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.379346	104.807701	1.074872
0.003097	0.605489	125.761960	
0.14085	7.379346	104.807701	1.074872
0.003097	0.162239	127.602964	
0.28170	7.379346	104.807701	1.074872
0.003097	0.438961	135.628369	
0.42255	7.379346	104.807701	1.074872
0.003097	1.100976	156.023494	
0.56339	7.379346	104.807701	1.074872
0.003097	1.769084	183.048014	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.216202	-73.711816	-1.593268
-0.002947	-0.902549	-49.842677	
0.14085	-10.216202	-73.711816	-1.593268
-0.002947	-0.234706	-61.672044	
0.28170	-10.216202	-73.711816	-1.593268
-0.002947	-0.296226	-78.055554	
0.42255	-10.216202	-73.711816	-1.593268
-0.002947	-0.747174	-107.843623	
0.56339	-10.216202	-73.711816	-1.593268
-0.002947	-1.197917	-146.454560	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.690452	12.283139	0.820017
0.000152	0.462170	3.885667	
0.14085	8.690452	12.283139	0.820017
0.000152	0.118068	21.437952	
0.28170	8.690452	12.283139	0.820017
0.000152	0.287611	51.625214	
0.42255	8.690452	12.283139	0.820017
0.000152	0.728891	82.235705	
0.56339	8.690452	12.283139	0.820017
0.000152	1.169797	113.092014	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3364

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.693511	-74.251482	-1.051061
-0.000965	-0.592026	-22.628516	
0.14085	-6.693511	-74.251482	-1.051061
-0.000965	-0.150391	-17.132842	
0.28170	-6.693511	-74.251482	-1.051061
-0.000965	-0.225565	-21.102735	
0.42255	-6.693511	-74.251482	-1.051061
-0.000965	-0.569554	-25.642381	
0.56339	-6.693511	-74.251482	-1.051061
-0.000965	-0.913397	-30.587893	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.192456	92.833685	1.122925
0.006063	0.636055	132.881306	
0.14085	11.192456	92.833685	1.122925
0.006063	0.184230	134.538741	
0.28170	11.192456	92.833685	1.122925
0.006063	0.423060	142.351828	
0.42255	11.192456	92.833685	1.122925
0.006063	1.055173	165.349743	
0.56339	11.192456	92.833685	1.122925
0.006063	1.705484	201.210513	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.936191	-98.744142	-1.550490
-0.006999	-0.896705	-16.646204	
0.14085	-4.936191	-98.744142	-1.550490
-0.006999	-0.248023	-20.371856	
0.28170	-4.936191	-98.744142	-1.550490
-0.006999	-0.308474	-26.397801	
0.42255	-4.936191	-98.744142	-1.550490
-0.006999	-0.779575	-35.600822	
0.56339	-4.936191	-98.744142	-1.550490
-0.006999	-1.250449	-64.873013	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.257788	114.170823	1.165661
0.004789	0.656359	134.799497	
0.14085	10.257788	114.170823	1.165661
0.004789	0.180986	128.851942	
0.28170	10.257788	114.170823	1.165661
0.004789	0.461955	132.356093	
0.42255	10.257788	114.170823	1.165661
0.004789	1.153469	153.640232	
0.56339	10.257788	114.170823	1.165661
0.004789	1.857436	185.563105	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.087533	-88.805395	-1.679003
-0.005371	-0.959051	-15.866048	
0.14085	-8.087533	-88.805395	-1.679003
-0.005371	-0.255182	-19.367123	
0.28170	-8.087533	-88.805395	-1.679003
-0.005371	-0.323181	-30.698051	
0.42255	-8.087533	-88.805395	-1.679003
-0.005371	-0.811269	-55.901080	
0.56339	-8.087533	-88.805395	-1.679003
-0.005371	-1.300997	-95.805825	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.937391	113.719906	1.196730
0.004319	0.673949	117.033929	
0.14085	8.937391	113.719906	1.196730
0.004319	0.183314	114.333526	
0.28170	8.937391	113.719906	1.196730
0.004319	0.479348	119.380877	
0.42255	8.937391	113.719906	1.196730
0.004319	1.200846	139.205065	
0.56339	8.937391	113.719906	1.196730
0.004319	1.932607	167.883197	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3365

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.159745	-79.032036	-1.744731
-0.004461	-0.994134	-42.061652	
0.14085	-10.159745	-79.032036	-1.744731
-0.004461	-0.262630	-52.235185	
0.28170	-10.159745	-79.032036	-1.744731
-0.004461	-0.330683	-68.731231	
0.42255	-10.159745	-79.032036	-1.744731
-0.004461	-0.832860	-97.162262	
0.56339	-10.159745	-79.032036	-1.744731
-0.004461	-1.334759	-137.979183	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.317433	136.882386	0.798796
0.005971	0.448812	138.098148	
0.14085	12.317433	136.882386	0.798796
0.005971	0.120621	125.752063	
0.28170	12.317433	136.882386	0.798796
0.005971	0.336877	135.717051	
0.42255	12.317433	136.882386	0.798796
0.005971	0.833933	162.127690	
0.56339	12.317433	136.882386	0.798796
0.005971	1.354177	202.015127	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.129599	-103.436677	-1.226923
-0.007131	-0.705803	-70.960328	
0.14085	-13.129599	-103.436677	-1.226923
-0.007131	-0.191535	-86.332490	
0.28170	-13.129599	-103.436677	-1.226923
-0.007131	-0.221232	-102.030533	
0.42255	-13.129599	-103.436677	-1.226923
-0.007131	-0.556182	-125.558369	
0.56339	-13.129599	-103.436677	-1.226923
-0.007131	-0.891178	-164.802897	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.192456	127.951583	1.196730
0.006063	0.673949	143.870664	
0.14085	11.192456	127.951583	1.196730
0.006063	0.184230	135.082427	
0.28170	11.192456	127.951583	1.196730
0.006063	0.479348	142.351828	
0.42255	11.192456	127.951583	1.196730
0.006063	1.200846	165.349743	
0.56339	11.192456	127.951583	1.196730
0.006063	1.932607	201.210513	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.318326	-98.744142	-1.744731
-0.006999	-0.994134	-81.639203	
0.14085	-12.318326	-98.744142	-1.744731
-0.006999	-0.262630	-99.182968	
0.28170	-12.318326	-98.744142	-1.744731
-0.006999	-0.330683	-117.264717	
0.42255	-12.318326	-98.744142	-1.744731
-0.006999	-0.832860	-136.802423	
0.56339	-12.318326	-98.744142	-1.744731
-0.006999	-1.334759	-173.549976	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.317433	136.882386	1.196730
0.006063	0.673949	143.870664	
0.14085	12.317433	136.882386	1.196730
0.006063	0.184230	135.082427	
0.28170	12.317433	136.882386	1.196730
0.006063	0.479348	142.351828	
0.42255	12.317433	136.882386	1.196730
0.006063	1.200846	165.349743	
0.56339	12.317433	136.882386	1.196730
0.006063	1.932607	202.015127	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3366

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.129599	-103.436677	-1.744731
-0.007131	-0.994134	-81.639203	
0.14085	-13.129599	-103.436677	-1.744731
-0.007131	-0.262630	-99.182968	
0.28170	-13.129599	-103.436677	-1.744731
-0.007131	-0.330683	-117.264717	
0.42255	-13.129599	-103.436677	-1.744731
-0.007131	-0.832860	-136.802423	
0.56339	-13.129599	-103.436677	-1.744731
-0.007131	-1.334759	-173.549976	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.317433	136.882386	1.196730
0.006063	0.673949	143.870664	
0.14085	12.317433	136.882386	1.196730
0.006063	0.184230	135.082427	

0.28170	12.317433	136.882386	1.196730
0.006063	0.479348	142.351828	
0.42255	12.317433	136.882386	1.196730
0.006063	1.200846	165.349743	
0.56339	12.317433	136.882386	1.196730
0.006063	1.932607	202.015127	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.129599	-103.436677	-1.744731
-0.007131	-0.994134	-81.639203	
0.14085	-13.129599	-103.436677	-1.744731
-0.007131	-0.262630	-99.182968	
0.28170	-13.129599	-103.436677	-1.744731
-0.007131	-0.330683	-117.264717	
0.42255	-13.129599	-103.436677	-1.744731
-0.007131	-0.832860	-136.802423	
0.56339	-13.129599	-103.436677	-1.744731
-0.007131	-1.334759	-173.549976	

ELEM 318 ========== LENGTH = 2.977380

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.064176	18.668465	0.408298
0.000565	0.455699	2.002949	
0.57747	0.064176	18.668465	0.408298
0.000565	0.284481	2.427159	
0.71831	0.064176	18.668465	0.408298
0.000565	0.113263	2.925446	
0.85916	0.064176	18.668465	0.408298
0.000565	0.062900	4.383781	
1.00000	0.064176	18.668465	0.408298
0.000565	0.252536	5.997228	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.237150	-4.423645	-0.452136
0.000137	-0.505870	-24.96316	
0.57747	-5.237150	-4.423645	-0.452136
-0.000137	-0.316270	-32.370812	
0.71831	-5.237150	-4.423645	-0.452136
-0.000137	-0.126695	-39.804877	
0.85916	-5.237150	-4.423645	-0.452136
-0.000137	-0.057976	-47.261376	
1.00000	-5.237150	-4.423645	-0.452136
-0.000137	-0.229173	-54.817497	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.638579	44.978342	0.699300
0.001268	0.779797	31.607913	
0.57747	0.638579	44.978342	0.699300
0.001268	0.486550	23.198550	
0.71831	0.638579	44.978342	0.699300
0.001268	0.193289	15.973650	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3367

FRAME ELEMENT INTERNAL FORCES

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.85916	0.638579	44.978342	0.699300
0.001268	0.104272	11.511481	
1.00000	0.638579	44.978342	0.699300
0.001268	0.416048	12.203100	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.482458	-8.180406	-0.743314
-0.000618	-0.830787	-28.698640	
0.57747	-9.482458	-8.180406	-0.743314
-0.000618	-0.519110	-38.015622	
0.71831	-9.482458	-8.180406	-0.743314
-0.000618	-0.208126	-48.916096	
0.85916	-9.482458	-8.180406	-0.743314
-0.000618	-0.106628	-62.116149	
1.00000	-9.482458	-8.180406	-0.743314
-0.000618	-0.393253	-76.607050	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.757422	98.472574	0.772592
0.000964	0.861503	181.253559	
0.57747	0.757422	98.472574	0.772592
0.000964	0.537520	149.445661	
0.71831	0.757422	98.472574	0.772592
0.000964	0.213520	118.268268	
0.85916	0.757422	98.472574	0.772592
0.000964	0.110191	88.817139	
1.00000	0.757422	98.472574	0.772592
0.000964	0.440648	62.453909	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-12.669109	-5.843205	-0.787934
-0.000421	-0.881022	-25.269842	
0.57747	-12.669109	-5.843205	-0.787934
-0.000421	-0.550661	-34.434797	
0.71831	-12.669109	-5.843205	-0.787934
-0.000421	-0.220254	-44.266999	
0.85916	-12.669109	-5.843205	-0.787934
-0.000421	-0.110447	-55.687609	
1.00000	-12.669109	-5.843205	-0.787934
-0.000421	-0.434435	-67.693100	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	7.695772	85.901862	0.824342
0.004489	0.919086	166.733870	
0.57747	7.695772	85.901862	0.824342
0.004489	0.573403	142.220968	
0.71831	7.695772	85.901862	0.824342
0.004489	0.227674	126.031900	
0.85916	7.695772	85.901862	0.824342
0.004489	0.144480	123.544290	
1.00000	7.695772	85.901862	0.824342
0.004489	0.522731	135.892606	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.794455	-91.174919	-0.905392
-0.004245	-0.999146	-82.888695	
0.57747	-10.794455	-91.174919	-0.905392
-0.004245	-0.620206	-59.439051	
0.71831	-10.794455	-91.174919	-0.905392
-0.004245	-0.254428	-49.003112	
0.85916	-10.794455	-91.174919	-0.905392
-0.004245	-0.112726	-47.690711	
1.00000	-10.794455	-91.174919	-0.905392
-0.004245	-0.464837	-58.430375	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.649009	40.979434	0.292959
0.000517	0.326169	73.413826	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57747	0.649009	40.979434	0.292959
0.000517	0.203337	56.270661	
0.71831	0.649009	40.979434	0.292959
0.000517	0.080462	39.879623	
0.85916	0.649009	40.979434	0.292959
0.000517	0.039045	24.712096	
1.00000	0.649009	40.979434	0.292959
0.000517	0.155771	14.242023	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.121218	-1.448427	-0.278333
-0.000348	-0.311127	-3.189353	
0.57747	-5.121218	-1.448427	-0.278333
-0.000348	-0.194421	-3.460806	
0.71831	-5.121218	-1.448427	-0.278333
-0.000348	-0.077740	-4.537637	
0.85916	-5.121218	-1.448427	-0.278333
-0.000348	-0.042437	-7.694543	
1.00000	-5.121218	-1.448427	-0.278333
-0.000348	-0.165213	-11.628727	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.815900	89.576257	0.412794
0.005167	0.459831	217.263416	
0.57747	4.815900	89.576257	0.412794
0.005167	0.286728	183.251504	
0.71831	4.815900	89.576257	0.412794
0.005167	0.113564	159.088814	
0.85916	4.815900	89.576257	0.412794
0.005167	0.085945	149.585299	
1.00000	4.815900	89.576257	0.412794
0.005167	0.279889	143.483854	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-7.941770	-60.554554	-0.462502
-0.005143	-0.496577	-20.727728	
0.57747	-7.941770	-60.554554	-0.462502
-0.005143	-0.303299	-3.536064	
0.71831	-7.941770	-60.554554	-0.462502
-0.005143	-0.127934	-4.164438	
0.85916	-7.941770	-60.554554	-0.462502
-0.005143	-0.075591	-7.468988	
1.00000	-7.941770	-60.554554	-0.462502
-0.005143	-0.234209	-11.556157	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.552370	96.987362	0.691044
0.005120	0.770238	194.246457	
0.57747	4.552370	96.987362	0.691044
0.005120	0.480452	164.808528	
0.71831	4.552370	96.987362	0.691044
0.005120	0.190610	144.235474	
0.85916	4.552370	96.987362	0.691044
0.005120	0.128541	137.325147	
1.00000	4.552370	96.987362	0.691044
0.005120	0.445137	132.986657	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.172137	-57.682907	-0.762164
-0.004778	-0.833878	-30.435691	
0.57747	-11.172137	-57.682907	-0.762164
-0.004778	-0.514872	-22.141796	
0.71831	-11.172137	-57.682907	-0.762164
-0.004778	-0.212054	-29.804005	
0.85916	-11.172137	-57.682907	-0.762164
-0.004778	-0.113679	-39.536513	
1.00000	-11.172137	-57.682907	-0.762164
-0.004778	-0.390376	-49.846408	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	10.010308	83.445862	0.845948
0.003801	0.943024	163.841694	
0.57747	10.010308	83.445862	0.845948
0.003801	0.588272	138.346682	
0.71831	10.010308	83.445862	0.845948
0.003801	0.233473	119.166354	
0.85916	10.010308	83.445862	0.845948
0.003801	0.143939	111.001700	
1.00000	10.010308	83.445862	0.845948
0.003801	0.522127	120.949800	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.576954	-103.449831	-0.902391
-0.003781	-0.995553	-109.243352	
0.57747	-9.576954	-103.449831	-0.902391
-0.003781	-0.618702	-78.003296	
0.71831	-9.576954	-103.449831	-0.902391
-0.003781	-0.253324	-57.333356	
0.85916	-9.576954	-103.449831	-0.902391
-0.003781	-0.130712	-38.215799	
1.00000	-9.576954	-103.449831	-0.902391
-0.003781	-0.476951	-44.641751	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	10.100319	5.703585	0.471701
0.000352	0.526074	6.861073	
0.57747	10.100319	5.703585	0.471701
0.000352	0.328269	5.073228	
0.71831	10.100319	5.703585	0.471701
0.000352	0.130447	4.353449	
0.85916	10.100319	5.703585	0.471701
0.000352	0.077217	3.717019	
1.00000	10.100319	5.703585	0.471701
0.000352	0.283993	3.094300	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.346389	-79.373826	-0.492841
-0.000778	-0.542912	-143.852888	
0.57747	-0.346389	-79.373826	-0.492841
-0.000778	-0.336524	-110.611717	
0.71831	-0.346389	-79.373826	-0.492841
-0.000778	-0.133449	-77.396649	
0.85916	-0.346389	-79.373826	-0.492841
-0.000778	-0.067280	-44.195424	
1.00000	-0.346389	-79.373826	-0.492841
-0.000778	-0.265149	-11.004571	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	16.576890	30.439525	0.606694
0.006237	0.676482	86.339510	
0.57747	16.576890	30.439525	0.606694
0.006237	0.422071	78.451514	
0.71831	16.576890	30.439525	0.606694
0.006237	0.167591	82.535985	
0.85916	16.576890	30.439525	0.606694
0.006237	0.139911	104.088717	
1.00000	16.576890	30.439525	0.606694
0.006237	0.453956	126.174120	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.653161	-168.633530	-0.748799
-0.006792	-0.802806	-183.089478	
0.57747	-1.653161	-168.633530	-0.748799
-0.006792	-0.489997	-121.213415	
0.71831	-1.653161	-168.633530	-0.748799
-0.006792	-0.205044	-80.165789	
0.85916	-1.653161	-168.633530	-0.748799
-0.006792	-0.106316	-40.271983	
1.00000	-1.653161	-168.633530	-0.748799
-0.006792	-0.343110	-7.437281	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	14.476680	76.149769	0.749207
0.004544	0.835214	187.964501	
0.57747	14.476680	76.149769	0.749207
0.004544	0.521038	159.555455	
0.71831	14.476680	76.149769	0.749207
0.004544	0.206797	139.415499	
0.85916	14.476680	76.149769	0.749207
0.004544	0.139533	131.555063	
1.00000	14.476680	76.149769	0.749207
0.004544	0.478546	125.385596	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-6.119096	-138.233085	-0.808438
-0.005023	-0.878013	-162.736425	
0.57747	-6.119096	-138.233085	-0.808438
-0.005023	-0.540003	-111.080056	
0.71831	-6.119096	-138.233085	-0.808438
-0.005023	-0.222492	-73.747206	
0.85916	-6.119096	-138.233085	-0.808438
-0.005023	-0.120688	-37.265408	
1.00000	-6.119096	-138.233085	-0.808438
-0.005023	-0.422823	-8.396442	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.406676	80.865127	0.885046
0.004183	0.986555	165.274812	
0.57747	12.406676	80.865127	0.885046
0.004183	0.615415	137.679242	
0.71831	12.406676	80.865127	0.885046
0.004183	0.244225	118.690704	
0.85916	12.406676	80.865127	0.885046
0.004183	0.153785	110.755840	
1.00000	12.406676	80.865127	0.885046
0.004183	0.549644	106.559259	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.521535	-116.930848	-0.943919
-0.004367	-1.034091	-140.485564	
0.57747	-8.521535	-116.930848	-0.943919
-0.004367	-0.639104	-102.152436	
0.71831	-8.521535	-116.930848	-0.943919
-0.004367	-0.261086	-76.141547	
0.85916	-8.521535	-116.930848	-0.943919
-0.004367	-0.137945	-51.988140	
1.00000	-8.521535	-116.930848	-0.943919
-0.004367	-0.499108	-34.649333	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.105781	24.155727	0.537277
0.000485	0.600706	2.293493	
0.57747	0.105781	24.155727	0.537277
0.000485	0.375631	3.509941	
0.71831	0.105781	24.155727	0.537277
0.000485	0.149751	5.825641	
0.85916	0.105781	24.155727	0.537277
0.000485	0.082703	8.488727	
1.00000	0.105781	24.155727	0.537277
0.000485	0.333467	11.262615	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.877464	-7.226181	-0.596891
-0.000125	-0.666991	-27.694062	
0.57747	-5.877464	-7.226181	-0.596891
-0.000125	-0.416514	-36.381357	
0.71831	-5.877464	-7.226181	-0.596891
-0.000125	-0.165971	-46.145243	
0.85916	-5.877464	-7.226181	-0.596891
-0.000125	-0.073884	-55.964592	
1.00000	-5.877464	-7.226181	-0.596891
-0.000125	-0.300034	-65.859518	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.722770	52.861072	0.888114
0.001027	0.992045	33.561427	
0.57747	0.722770	52.861072	0.888114
0.001027	0.619520	25.798812	
0.71831	0.722770	52.861072	0.888114
0.001027	0.246102	20.121541	
0.85916	0.722770	52.861072	0.888114
0.001027	0.138088	16.269044	
1.00000	0.722770	52.861072	0.888114
0.001027	0.556118	18.081113	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.649744	-11.036419	-0.995605
-0.000497	-1.112727	-30.850339	
0.57747	-9.649744	-11.036419	-0.995605
-0.000497	-0.695160	-42.223469	
0.71831	-9.649744	-11.036419	-0.995605
-0.000497	-0.277377	-56.161604	
0.85916	-9.649744	-11.036419	-0.995605
-0.000497	-0.122733	-71.075497	
1.00000	-9.649744	-11.036419	-0.995605
-0.000497	-0.497023	-89.315938	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.949977	99.451011	0.997096
0.000843	1.113314	183.833643	
0.57747	0.949977	99.451011	0.997096
0.000843	0.694991	155.342625	
0.71831	0.949977	99.451011	0.997096
0.000843	0.275407	128.462459	
0.85916	0.949977	99.451011	0.997096
0.000843	0.155807	102.901680	
1.00000	0.949977	99.451011	0.997096
0.000843	0.631102	81.304895	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-12.134189	-9.828291	-1.130560
-0.000400	-1.264065	-27.890802	
0.57747	-12.134189	-9.828291	-1.130560
-0.000400	-0.789447	-38.360054	
0.71831	-12.134189	-9.828291	-1.130560
-0.000400	-0.314735	-50.610597	
0.85916	-12.134189	-9.828291	-1.130560
-0.000400	-0.136452	-63.752912	
1.00000	-12.134189	-9.828291	-1.130560
-0.000400	-0.557320	-79.099434	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.868723	88.066446	1.113751
0.003576	1.242576	173.420774	
0.57747	6.868723	88.066446	1.113751
0.003576	0.775644	150.805470	
0.71831	6.868723	88.066446	1.113751
0.003576	0.307842	137.057427	
0.85916	6.868723	88.066446	1.113751
0.003576	0.192511	136.662408	
1.00000	6.868723	88.066446	1.113751
0.003576	0.733151	148.708004	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.365911	-83.200765	-1.286815
-0.003394	-1.428149	-78.148388	
0.57747	-10.365911	-83.200765	-1.286815
-0.003394	-0.886430	-58.109519	
0.71831	-10.365911	-83.200765	-1.286815
-0.003394	-0.357611	-52.684202	
0.85916	-10.365911	-83.200765	-1.286815
-0.003394	-0.167064	-55.231517	
1.00000	-10.365911	-83.200765	-1.286815
-0.003394	-0.633454	-69.148264	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.719747	38.753196	0.353848
0.000423	0.394442	72.131099	
0.57747	0.719747	38.753196	0.353848
0.000423	0.245830	56.471158	
0.71831	0.719747	38.753196	0.353848
0.000423	0.096845	41.301895	
0.85916	0.719747	38.753196	0.353848
0.000423	0.055982	27.160572	
1.00000	0.719747	38.753196	0.353848
0.000423	0.225861	16.978742	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-4.339278	-1.672491	-0.404985
-0.000291	-0.452994	-3.112977	
0.57747	-4.339278	-1.672491	-0.404985
-0.000291	-0.283065	-3.881712	
0.71831	-4.339278	-1.672491	-0.404985
-0.000291	-0.112828	-5.246670	
0.85916	-4.339278	-1.672491	-0.404985
-0.000291	-0.048992	-7.347761	
1.00000	-4.339278	-1.672491	-0.404985
-0.000291	-0.198280	-11.543183	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.316751	83.389153	0.547128
0.004470	0.608951	222.032912	
0.57747	4.316751	83.389153	0.547128
0.004470	0.379627	190.288459	
0.71831	4.316751	83.389153	0.547128
0.004470	0.149649	168.556678	
0.85916	4.316751	83.389153	0.547128
0.004470	0.113865	158.270094	
1.00000	4.316751	83.389153	0.547128
0.004470	0.399473	151.642883	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-6.746685	-52.486726	-0.679365
-0.004464	-0.742553	-21.751016	
0.57747	-6.746685	-52.486726	-0.679365
-0.004464	-0.464584	-33.915704	
0.71831	-6.746685	-52.486726	-0.679365
-0.004464	-0.187326	-4.764060	
0.85916	-6.746685	-52.486726	-0.679365
-0.004464	-0.094889	-7.211769	
1.00000	-6.746685	-52.486726	-0.679365
-0.004464	-0.321445	-11.775478	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.099436	96.073908	0.901215
0.004435	0.704813	198.970104	
0.57747	4.099436	96.073908	0.901215
0.004435	0.627048	171.342577	
0.71831	4.099436	96.073908	0.901215
0.004435	0.248164	154.474976	
0.85916	4.099436	96.073908	0.901215
0.004435	0.165797	148.022018	
1.00000	4.099436	96.073908	0.901215
0.004435	0.615305	144.044986	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.300274	-52.371820	-1.069431
-0.004166	-1.180435	-30.895920	
0.57747	-10.300274	-52.371820	-1.069431
-0.004166	-0.732627	-22.935156	
0.71831	-10.300274	-52.371820	-1.069431
-0.004166	-0.296572	-32.946272	
0.85916	-10.300274	-52.371820	-1.069431
-0.004166	-0.141465	-44.193297	
1.00000	-10.300274	-52.371820	-1.069431
-0.004166	-0.518000	-56.855054	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.074291	84.196502	1.153468
0.003070	1.286581	166.557860	
0.57747	9.074291	84.196502	1.153468
0.003070	0.802784	143.103894	
0.71831	9.074291	84.196502	1.153468
0.003070	0.318377	127.048015	
0.85916	9.074291	84.196502	1.153468
0.003070	0.196226	120.315541	
1.00000	9.074291	84.196502	1.153468
0.003070	0.751745	133.142058	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.840568	-96.108265	-1.321831
-0.003084	-1.466298	-100.821419	
0.57747	-8.840568	-96.108265	-1.321831
-0.003084	-0.913462	-72.682799	
0.71831	-8.840568	-96.108265	-1.321831
-0.003084	-0.367560	-56.556883	
0.85916	-8.840568	-96.108265	-1.321831
-0.003084	-0.171552	-43.321387	
1.00000	-8.840568	-96.108265	-1.321831
-0.003084	-0.654607	-52.687635	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.503763	8.002470	0.693085
0.000286	0.773061	7.019469	
0.57747	9.503763	8.002470	0.693085
0.000286	0.482427	5.520938	
0.71831	9.503763	8.002470	0.693085
0.000286	0.191883	4.939900	
0.85916	9.503763	8.002470	0.693085
0.000286	0.108306	4.444887	
1.00000	9.503763	8.002470	0.693085
0.000286	0.424161	3.986981	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.335902	-77.819964	-0.751893
-0.000660	-0.836189	-142.831042	
0.57747	-0.335902	-77.819964	-0.751893
-0.000660	-0.520789	-111.920816	
0.71831	-0.335902	-77.819964	-0.751893
-0.000660	-0.206781	-81.477427	
0.85916	-0.335902	-77.819964	-0.751893
-0.000660	-0.098751	-51.063373	
1.00000	-0.335902	-77.819964	-0.751893
-0.000660	-0.389556	-20.665867	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	15.618421	30.924022	0.915402
0.006186	1.019431	91.693978	
0.57747	15.618421	30.924022	0.915402
0.006186	0.636128	84.432020	
0.71831	15.618421	30.924022	0.915402
0.006186	0.253335	91.639967	
0.85916	15.618421	30.924022	0.915402
0.006186	0.183400	114.500811	
1.00000	15.618421	30.924022	0.915402
0.006186	0.636163	137.749367	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.414837	-163.271103	-1.078568
-0.006695	-1.157869	-181.269344	
0.57747	-1.414837	-163.271103	-1.078568
-0.006695	-0.724297	-118.196308	
0.71831	-1.414837	-163.271103	-1.078568
-0.006695	-0.294947	-81.729891	
0.85916	-1.414837	-163.271103	-1.078568
-0.006695	-0.157587	-46.675481	
1.00000	-1.414837	-163.271103	-1.078568
-0.006695	-0.535969	-13.678826	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	13.770402	70.040504	1.072686
0.004700	1.195178	186.401432	
0.57747	13.770402	70.040504	1.072686
0.004700	0.745610	161.561025	
0.71831	13.770402	70.040504	1.072686
0.004700	0.295626	147.305504	
0.85916	13.770402	70.040504	1.072686
0.004700	0.197184	144.397164	
1.00000	13.770402	70.040504	1.072686
0.004700	0.718333	141.990555	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.079000	-135.528419	-1.241226
-0.005129	-1.365127	-160.489518	
0.57747	-5.079000	-135.528419	-1.241226
-0.005129	-0.845287	-107.094152	
0.71831	-5.079000	-135.528419	-1.241226
-0.005129	-0.341475	-74.785201	
0.85916	-5.079000	-135.528419	-1.241226
-0.005129	-0.170874	-42.620611	
1.00000	-5.079000	-135.528419	-1.241226
-0.005129	-0.617592	-12.863672	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.834714	79.062086	1.217260
0.004249	1.356978	164.273975	
0.57747	11.834714	79.062086	1.217260
0.004249	0.846624	139.813922	
0.71831	11.834714	79.062086	1.217260
0.004249	0.335853	126.510585	
0.85916	11.834714	79.062086	1.217260
0.004249	0.214377	123.256107	
1.00000	11.834714	79.062086	1.217260
0.004249	0.801638	122.576919	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-7.563659	-116.022833	-1.398526
-0.004425	-1.545202	-138.618673	
0.57747	-7.563659	-116.022833	-1.398526
-0.004425	-0.959363	-99.607469	
0.71831	-7.563659	-116.022833	-1.398526
-0.004425	-0.386479	-78.387026	
0.85916	-7.563659	-116.022833	-1.398526
-0.004425	-0.187038	-58.470979	
1.00000	-7.563659	-116.022833	-1.398526
-0.004425	-0.695591	-41.762118	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	16.576890	98.472574	0.885046
0.006237	0.986555	217.263416	
0.57747	16.576890	98.472574	0.885046
0.006237	0.615415	183.251504	
0.71831	16.576890	98.472574	0.885046
0.006237	0.244225	159.088814	
0.85916	16.576890	98.472574	0.885046
0.006237	0.153785	149.585299	
1.00000	16.576890	98.472574	0.885046
0.006237	0.549644	143.483854	

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -12.669109 -168.633530 -0.943919
-0.006792 -1.034091 -183.089478
0.57747 -12.669109 -168.633530 -0.943919
-0.006792 -0.639104 -121.213415
0.71831 -12.669109 -168.633530 -0.943919
-0.006792 -0.261086 -80.165789
0.85916 -12.669109 -168.633530 -0.943919
-0.006792 -0.137945 -62.164149
1.00000 -12.669109 -168.633530 -0.943919
-0.006792 -0.137945 -76.607050
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 15.618421 99.451011 1.217260
0.006186 1.356978 222.032912
0.57747 15.618421 99.451011 1.217260
0.006186 0.846624 190.288459
0.71831 15.618421 99.451011 1.217260
0.006186 0.335853 168.556678
0.85916 15.618421 99.451011 1.217260
0.006186 0.214377 158.270094
1.00000 15.618421 99.451011 1.217260
0.006186 0.801638 151.642883

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -12.134189 -163.271103 -1.398526
-0.006695 -1.545202 -181.269344
0.57747 -12.134189 -163.271103 -1.398526
-0.006695 -0.959363 -118.196308
0.71831 -12.134189 -163.271103 -1.398526
-0.006695 -0.386479 -81.729891
0.85916 -12.134189 -163.271103 -1.398526
-0.006695 -0.187038 -71.075497
1.00000 -12.134189 -163.271103 -1.398526
-0.006695 -0.695591 -89.315938

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 16.576890 99.451011 1.217260
0.006237 1.356978 222.032912
0.57747 16.576890 99.451011 1.217260
0.006237 0.846624 190.288459
0.71831 16.576890 99.451011 1.217260
0.006237 0.335853 168.556678
0.85916 16.576890 99.451011 1.217260
0.006237 0.214377 158.270094
1.00000 16.576890 99.451011 1.217260
0.006237 0.801638 151.642883

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -12.669109 -168.633530 -1.398526
-0.006792 -1.545202 -183.089478
0.57747 -12.669109 -168.633530 -1.398526
-0.006792 -0.959363 -121.213415
0.71831 -12.669109 -168.633530 -1.398526
-0.006792 -0.386479 -81.729891
0.85916 -12.669109 -168.633530 -1.398526
-0.006792 -0.187038 -71.075497
1.00000 -12.669109 -168.633530 -1.398526
-0.006792 -0.695591 -89.315938

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 16.576890 99.451011 1.217260
0.006237 1.356978 222.032912
0.57747 16.576890 99.451011 1.217260
0.006237 0.846624 190.288459
0.71831 16.576890 99.451011 1.217260
0.006237 0.335853 168.556678
0.85916 16.576890 99.451011 1.217260
0.006237 0.214377 158.270094
1.00000 16.576890 99.451011 1.217260
0.006237 0.801638 151.642883

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -12.669109 -168.633530 -1.398526
-0.006792 -1.545202 -183.089478
0.57747 -12.669109 -168.633530 -1.398526
-0.006792 -0.959363 -121.213415
0.71831 -12.669109 -168.633530 -1.398526
-0.006792 -0.386479 -81.729891
0.85916 -12.669109 -168.633530 -1.398526
-0.006792 -0.187038 -71.075497
1.00000 -12.669109 -168.633530 -1.398526
-0.006792 -0.695591 -89.315938
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 319 ========== LENGTH = 2.976382

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.062733 18.575707 0.400322
0.000249 0.224262 6.004609
0.14081 0.062733 18.575707 0.400322
0.000249 0.056468 7.703364
0.28161 0.062733 18.575707 0.400322
0.000249 0.111782 -4.168662
0.42242 0.062733 18.575707 0.400322
0.000249 0.320309 11.278503
0.56323 0.062733 18.575707 0.400322
0.000249 0.513861 13.088902

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.191112 -4.338925 -0.461835
-1.11E-05 -0.260352 -54.835669
0.14081 -5.191112 -4.338925 -0.461835
-1.11E-05 -0.066758 -62.501825
0.28161 -5.191112 -4.338925 -0.461835
-1.11E-05 -0.111285 -70.187988
0.42242 -5.191112 -4.338925 -0.461835
-1.11E-05 -0.279059 -77.887397
0.56323 -5.191112 -4.338925 -0.461835
-1.11E-05 -0.446832 -85.621046

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.517719 46.202010 0.675702
0.000722 0.377410 12.223353
0.14081 0.517719 46.202010 0.675702
0.000722 0.094830 12.864364
0.28161 0.517719 46.202010 0.675702
0.000722 0.208960 14.078688
0.42242 0.517719 46.202010 0.675702
0.000722 0.527361 16.131613
0.56323 0.517719 46.202010 0.675702
0.000722 0.846450 18.548915

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.485480 -6.173867 -0.761430
-0.000290 -0.430016 -76.640397
0.14081 -9.485480 -6.173867 -0.761430
-0.000290 -0.110850 -93.203058
0.28161 -9.485480 -6.173867 -0.761430
-0.000290 -0.189030 -110.317875
0.42242 -9.485480 -6.173867 -0.761430
-0.000290 -0.472204 -127.614216
0.56323 -9.485480 -6.173867 -0.761430
-0.000290 -0.755377 -145.923436

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.777122 97.342888 0.747478
0.000890 0.417107 62.426096
0.14081 0.777122 97.342888 0.747478
0.000890 0.103856 40.995159
0.28161 0.777122 97.342888 0.747478
0.000890 0.221249 35.788416
0.42242 0.777122 97.342888 0.747478
0.000890 0.558001 34.861904
0.56323 0.777122 97.342888 0.747478
0.000890 0.894791 35.275539

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.502824 -5.769240 -0.803607
-0.000449 -0.452356 -67.715576
0.14081 -12.502824 -5.769240 -0.803607
-0.000449 -0.115492 -79.644291
0.28161 -12.502824 -5.769240 -0.803607
-0.000449 -0.209520 -93.146043
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42242 -12.502824 -5.769240 -0.803607
-0.000449 -0.522792 -130.367164
0.56323 -12.502824 -5.769240 -0.803607
-0.000449 -0.836057 -170.829844

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.333740 119.615259 0.806968
0.004298 0.452256 136.056406
0.14081 5.333740 119.615259 0.806968
0.004298 0.125065 121.183910
0.28161 5.333740 119.615259 0.806968
0.004298 0.258994 119.632404
0.42242 5.333740 119.615259 0.806968
0.004298 0.642576 130.107255
0.56323 5.333740 119.615259 0.806968
0.004298 1.039221 148.276496

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.451137 -54.021325 -0.947220
-0.004059 -0.549459 -58.443296
0.14081 -12.451137 -54.021325 -0.947220
-0.004059 -0.152404 -69.158376
0.28161 -12.451137 -54.021325 -0.947220
-0.004059 -0.224580 -81.348989
0.42242 -12.451137 -54.021325 -0.947220
-0.004059 -0.562826 -113.070260
0.56323 -12.451137 -54.021325 -0.947220
-0.004059 -0.901022 -154.679865

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.655236 40.509957 0.277343
0.000396 0.194102 14.229461
0.14081 0.655236 40.509957 0.277343
0.000396 0.037955 8.968586
0.28161 0.655236 40.509957 0.277343
0.000396 0.078661 7.441007
0.42242 0.655236 40.509957 0.277343
0.000396 0.198486 6.388786
0.56323 0.655236 40.509957 0.277343
0.000396 0.318346 6.755409

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.061281 -1.379276 -0.286017
-0.000222 -0.161090 -11.635164
0.14081 -5.061281 -1.379276 -0.286017
-0.000222 -0.041216 -15.557737
0.28161 -5.061281 -1.379276 -0.286017
-0.000222 -0.078441 -30.623585
0.42242 -5.061281 -1.379276 -0.286017
-0.000222 -0.194677 -46.725081
0.56323 -5.061281 -1.379276 -0.286017
-0.000222 -0.310910 -63.330691

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.502593 135.954885 0.397515
0.005489 0.222069 143.727403
0.14081 1.502593 135.954885 0.397515
0.005489 0.070622 97.393378
0.28161 1.502593 135.954885 0.397515
0.005489 0.129243 68.512994
0.42242 1.502593 135.954885 0.397515
0.005489 0.308579 55.772210
0.56323 1.502593 135.954885 0.397515
0.005489 0.505800 53.518098

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.279256 -9.051010 -0.471669
-0.005310 -0.265959 -11.556279
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14081 -10.279256 -9.051010 -0.471669
-0.005310 -0.088243 -15.669023
0.28161 -10.279256 -9.051010 -0.471669
-0.005310 -0.111720 -21.781864
0.42242 -10.279256 -9.051010 -0.471669
-0.005310 -0.276382 -53.829494
0.56323 -10.279256 -9.051010 -0.471669
-0.005310 -0.444979 -99.203229

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.561211 138.760928 0.667266
0.005162 0.372776 133.212604
0.14081 1.561211 138.760928 0.667266
0.005162 0.106824 92.685632
0.28161 1.561211 138.760928 0.667266
0.005162 0.213498 67.895196
0.42242 1.561211 138.760928 0.667266
0.005162 0.523249 57.628662
0.56323 1.561211 138.760928 0.667266
0.005162 0.849159 56.836595

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.244851 -11.128298 -0.778630
-0.004791 -0.457071 -49.861577
0.14081 -13.244851 -11.128298 -0.778630
-0.004791 -0.130680 -60.142337
0.28161 -13.244851 -11.128298 -0.778630
-0.004791 -0.187024 -72.398932
0.42242 -13.244851 -11.128298 -0.778630
-0.004791 -0.466732 -108.244213
0.56323 -13.244851 -11.128298 -0.778630
-0.004791 -0.746380 -155.776787

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.132055 110.628862 0.830616
0.003775 0.465774 121.061502
0.14081 8.132055 110.628862 0.830616
0.003775 0.126581 117.366349
0.28161 8.132055 110.628862 0.830616
0.003775 0.209776 127.422474
0.42242 8.132055 110.628862 0.830616
0.003775 0.647851 147.838252
0.56323 8.132055 110.628862 0.830616
0.003775 1.046530 174.717699

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.902848 -73.579446 -0.951924
-0.003614 -0.549883 -44.648646
0.14081 -10.902848 -73.579446 -0.951924
-0.003614 -0.150905 -54.175972
0.28161 -10.902848 -73.579446 -0.951924
-0.003614 -0.230791 -65.240240
0.42242 -10.902848 -73.579446 -0.951924
-0.003614 -0.578948 -96.175286
0.56323 -10.902848 -73.579446 -0.951924
-0.003614 -0.927056 -135.470142

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.196180 5.726429 0.479506
0.000561 0.270997 3.091493
0.14081 10.196180 5.726429 0.479506
0.000561 0.070040 24.271506
0.28161 10.196180 5.726429 0.479506
0.000561 0.139915 57.359379
0.42242 10.196180 5.726429 0.479506
0.000561 0.356808 90.720057
0.56323 10.196180 5.726429 0.479506
0.000561 0.573729 124.184186
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.338815 -80.039571 -0.517596
-0.000766 -0.293968 -11.046082
0.14081 -0.338815 -80.039571 -0.517596
-0.000766 -0.077125 -7.359467
0.28161 -0.338815 -80.039571 -0.517596
-0.000766 -0.130904 -8.927636
0.42242 -0.338815 -80.039571 -0.517596
-0.000766 -0.331880 -10.694869
0.56323 -0.338815 -80.039571 -0.517596
-0.000766 -0.532839 -12.861718

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.643095 87.974767 0.616987
0.006565 0.349501 126.473443
0.14081 12.643095 87.974767 0.616987
0.006565 0.109196 132.642330
0.28161 12.643095 87.974767 0.616987
0.006565 0.212649 143.370393
0.42242 12.643095 87.974767 0.616987
0.006565 0.519084 170.754929
0.56323 12.643095 87.974767 0.616987
0.006565 0.847294 210.057461

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.615241 -106.840710 -0.784529
-0.006794 -0.469343 -7.422500
0.14081 -4.615241 -106.840710 -0.784529
-0.006794 -0.140667 -8.817686
0.28161 -4.615241 -106.840710 -0.784529
-0.006794 -0.168313 -12.266585
0.42242 -4.615241 -106.840710 -0.784529
-0.006794 -0.426954 -17.052673
0.56323 -4.615241 -106.840710 -0.784529
-0.006794 -0.685531 -38.501440

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.819750 114.988090 0.748791
0.005039 0.305166 125.407703
0.14081 11.819750 114.988090 0.748791
0.005039 0.120440 121.916749
0.28161 11.819750 114.988090 0.748791
0.005039 0.230673 134.380033
0.42242 11.819750 114.988090 0.748791
0.005039 0.571205 160.573366
0.56323 11.819750 114.988090 0.748791
0.005039 0.926686 195.631438

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.067146 -96.060273 -0.849113
-0.005144 -0.497782 -8.381216
0.14081 -8.067146 -96.060273 -0.849113
-0.005144 -0.141911 -10.610642
0.28161 -8.067146 -96.060273 -0.849113
-0.005144 -0.206404 -14.956510
0.42242 -8.067146 -96.060273 -0.849113
-0.005144 -0.522689 -43.176142
0.56323 -8.067146 -96.060273 -0.849113
-0.005144 -0.834104 -81.911429

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.211887 112.727566 0.873014
0.004386 0.490152 106.693052
0.14081 10.211887 112.727566 0.873014
0.004386 0.134700 104.607720
0.28161 10.211887 112.727566 0.873014
0.004386 0.268344 115.893663
0.42242 10.211887 112.727566 0.873014
0.004386 0.668542 138.619071
0.56323 10.211887 112.727566 0.873014
0.004386 1.081085 168.682587
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.098677 -82.045728 -0.985117
-0.004289 -0.571194 -34.651124
0.14081 -10.098677 -82.045728 -0.985117
-0.004289 -0.158314 -43.163844
0.28161 -10.098677 -82.045728 -0.985117
-0.004289 -0.241999 -53.218533
0.42242 -10.098677 -82.045728 -0.985117
-0.004289 -0.607932 -82.894420
0.56323 -10.098677 -82.045728 -0.985117
-0.004289 -0.973808 -121.915391

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.110426 24.016073 0.549537
0.000209 0.309802 11.278648
0.14081 0.110426 24.016073 0.549537
0.000209 0.078517 14.175047
0.28161 0.110426 24.016073 0.549537
0.000209 0.165987 17.139240
0.42242 0.110426 24.016073 0.549537
0.000209 0.419474 20.125403
0.56323 0.110426 24.016073 0.549537
0.000209 0.672730 23.121047

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.842817 -7.160181 -0.603965
-8.16E-06 -0.339264 -65.886799
0.14081 -5.842817 -7.160181 -0.603965
-8.16E-06 -0.086141 -75.814449
0.28161 -5.842817 -7.160181 -0.603965
-8.16E-06 -0.150111 -85.792581
0.42242 -5.842817 -7.160181 -0.603965
-8.16E-06 -0.380816 -95.803236
0.56323 -5.842817 -7.160181 -0.603965
-8.16E-06 -0.610993 -105.838306

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.666273 53.448197 0.892935
0.000561 0.501649 18.106422
0.14081 0.666273 53.448197 0.892935
0.000561 0.126199 20.451671
0.28161 0.666273 53.448197 0.892935
0.000561 0.277876 23.646784
0.42242 0.666273 53.448197 0.892935
0.000561 0.702094 27.268407
0.56323 0.666273 53.448197 0.892935
0.000561 1.125813 31.232848

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.650666 -9.837983 -1.011379
-0.000218 -0.568126 -89.370693
0.14081 -9.650666 -9.837983 -1.011379
-0.000218 -0.145101 -108.908987
0.28161 -9.650666 -9.837983 -1.011379
-0.000218 -0.245096 -129.177246
0.42242 -9.650666 -9.837983 -1.011379
-0.000218 -0.620198 -150.297751
0.56323 -9.650666 -9.837983 -1.011379
-0.000218 -0.994468 -172.110809

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.970222 98.433252 0.989677
0.000734 0.552846 81.295507
0.14081 0.970222 98.433252 0.989677
0.000734 0.136192 63.153635
0.28161 0.970222 98.433252 0.989677
0.000734 0.314283 52.044972
0.42242 0.970222 98.433252 0.989677
0.000734 0.790250 49.933938
0.56323 0.970222 98.433252 0.989677
0.000734 1.265504 49.958999
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.009385 -9.776892 -1.133927
-0.000383 -0.633689 -79.133490
0.14081 -12.009385 -9.776892 -1.133927
-0.000383 -0.159060 -94.554048
0.28161 -12.009385 -9.776892 -1.133927
-0.000383 -0.273417 -111.900529
0.42242 -12.009385 -9.776892 -1.133927
-0.000383 -0.689592 -147.166828
0.56323 -12.009385 -9.776892 -1.133927
-0.000383 -1.104365 -185.448587

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.174957 113.388332 1.112737
0.003323 0.640329 148.696218
0.14081 5.174957 113.388332 1.112737
0.003323 0.167683 140.217593
0.28161 5.174957 113.388332 1.112737
0.003323 0.359087 137.524983
0.42242 5.174957 113.388332 1.112737
0.003323 0.897875 147.668211
0.56323 5.174957 113.388332 1.112737
0.003323 1.444743 165.941570

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.718855 -55.766913 -1.305489
-0.003159 -0.744409 -69.166161
0.14081 -11.718855 -55.766913 -1.305489
-0.003159 -0.197622 -83.235987
0.28161 -11.718855 -55.766913 -1.305489
-0.003159 -0.306577 -99.093082
0.42242 -11.718855 -55.766913 -1.305489
-0.003159 -0.773619 -129.539745
0.56323 -11.718855 -55.766913 -1.305489
-0.003159 -1.239726 -169.931247

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.727496 38.445965 0.341615
0.000321 0.189717 16.970761
0.14081 0.727496 38.445965 0.341615
0.000321 0.046041 9.683358
0.28161 0.727496 38.445965 0.341615
0.000321 0.112897 7.526666
0.42242 0.727496 38.445965 0.341615
0.000321 0.284554 6.961080
0.56323 0.727496 38.445965 0.341615
0.000321 0.455960 6.952062

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.306415 -1.626095 -0.408613
-0.000197 -0.228792 -11.552655
0.14081 -4.306415 -1.626095 -0.408613
-0.000197 -0.058260 -17.391861
0.28161 -4.306415 -1.626095 -0.408613
-0.000197 -0.095164 -30.218371
0.42242 -4.306415 -1.626095 -0.408613
-0.000197 -0.238868 -45.112223
0.56323 -4.306415 -1.626095 -0.408613
-0.000197 -0.382189 -60.618956

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.652639 122.369973 0.529115
0.004684 0.306309 151.643037
0.14081 1.652639 122.369973 0.529115
0.004684 0.089627 111.311247
0.28161 1.652639 122.369973 0.529115
0.004684 0.186699 78.574506
0.42242 1.652639 122.369973 0.529115
0.004684 0.455843 64.072185
0.56323 1.652639 122.369973 0.529115
0.004684 0.738075 61.175899
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3382
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.878030 -9.958240 -0.674998
-0.004557 -0.396251 -11.781079
0.14081 -8.878030 -9.958240 -0.674998
-0.004557 -0.113740 -16.568055
0.28161 -8.878030 -9.958240 -0.674998
-0.004557 -0.147369 -24.718120
0.42242 -8.878030 -9.958240 -0.674998
-0.004557 -0.369662 -51.490009
0.56323 -8.878030 -9.958240 -0.674998
-0.004557 -0.591193 -92.630751

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.696041 131.210049 0.888418
0.004408 0.509011 144.059193
0.14081 1.696041 131.210049 0.888418
0.004408 0.138774 109.630719
0.28161 1.696041 131.210049 0.888418
0.004408 0.296284 82.087896
0.42242 1.696041 131.210049 0.888418
0.004408 0.733757 71.087736
0.56323 1.696041 131.210049 0.888418
0.004408 1.182749 70.514918

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.200895 -13.860561 -1.073351
-0.004113 -0.617361 -56.880618
0.14081 -12.200895 -13.860561 -1.073351
-0.004113 -0.168583 -69.649815
0.28161 -12.200895 -13.860561 -1.073351
-0.004113 -0.245756 -85.764848
0.42242 -12.200895 -13.860561 -1.073351
-0.004113 -0.618897 -118.501987
0.56323 -12.200895 -13.860561 -1.073351
-0.004113 -0.991110 -164.186215

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.695551 105.139992 1.147816
0.002987 0.650856 133.109784
0.14081 7.695551 105.139992 1.147816
0.002987 0.170195 134.187350
0.28161 7.695551 105.139992 1.147816
0.002987 0.370349 141.161890
0.42242 7.695551 105.139992 1.147816
0.002987 0.570929 160.162658
0.56323 7.695551 105.139992 1.147816
0.002987 1.492001 186.291680

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.950839 -73.563985 -1.346940
-0.002879 -0.766273 -52.699035
0.14081 -9.950839 -73.563985 -1.346940
-0.002879 -0.201622 -64.900919
0.28161 -9.950839 -73.563985 -1.346940
-0.002879 -0.798455 -79.734329
0.42242 -9.950839 -73.563985 -1.346940
-0.002879 -0.798455 -108.879168
0.56323 -9.950839 -73.563985 -1.346940
-0.002879 -1.279500 -146.553310

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.571512 7.991516 0.701025
0.000439 0.395400 3.981095
0.14081 9.571512 7.991516 0.701025
0.000439 0.100408 24.129467
0.28161 9.571512 7.991516 0.701025
0.000439 0.211161 56.139134
0.42242 9.571512 7.991516 0.701025
0.000439 0.538403 88.604032
0.56323 9.571512 7.991516 0.701025
0.000439 0.864632 121.261849
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3383
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.322635 -78.346533 -0.778288
-0.000646 -0.438546 -20.696423
0.14081 -0.322635 -78.346533 -0.778288
-0.000646 -0.111926 -13.525238
0.28161 -0.322635 -78.346533 -0.778288
-0.000646 -0.192397 -15.943898
0.42242 -0.322635 -78.346533 -0.778288
-0.000646 -0.486103 -18.747334
0.56323 -0.322635 -78.346533 -0.778288
-0.000646 -0.779963 -21.949125

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.902113 87.219480 0.927318
0.006401 0.544216 137.775947
0.14081 11.902113 87.219480 0.927318
0.006401 0.160272 143.700477
0.28161 11.902113 87.219480 0.927318
0.006401 0.291788 153.744120
0.42242 11.902113 87.219480 0.927318
0.006401 0.745533 177.916118
0.56323 11.902113 87.219480 0.927318
0.006401 1.209894 215.161289

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.534939 -103.623925 -1.109371
-0.006644 -0.652593 -13.681163
0.14081 -4.534939 -103.623925 -1.109371
-0.006644 -0.187414 -16.702288
0.28161 -4.534939 -103.623925 -1.109371
-0.006644 -0.254157 -20.600510
0.42242 -4.534939 -103.623925 -1.109371
-0.006644 -0.641736 -26.995348
0.56323 -4.534939 -103.623925 -1.109371
-0.006644 -1.029824 -52.360132

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.118438 110.202139 1.067001
0.005015 0.613258 141.971041
0.14081 11.118438 110.202139 1.067001
0.005015 0.168646 138.763294
0.28161 11.118438 110.202139 1.067001
0.005015 0.345319 142.642852
0.42242 11.118438 110.202139 1.067001
0.005015 0.861627 163.924575
0.56323 11.118438 110.202139 1.067001
0.005015 1.390562 196.260824

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.269747 -92.694784 -1.263418
-0.005159 -0.728951 -12.851155
0.14081 -7.269747 -92.694784 -1.263418
-0.005159 -0.198890 -16.088171
0.28161 -7.269747 -92.694784 -1.263418
-0.005159 -0.294572 -23.745025
0.42242 -7.269747 -92.694784 -1.263418
-0.005159 -0.741836 -46.434467
0.56323 -7.269747 -92.694784 -1.263418
-0.005159 -1.188867 -82.997079

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.639418 112.190498 1.210796
0.004336 0.691208 122.559685
0.14081 9.639418 112.190498 1.210796
0.004336 0.185218 121.391100
0.28161 9.639418 112.190498 1.210796
0.004336 0.390068 126.054021
0.42242 9.639418 112.190498 1.210796
0.004336 0.976581 145.122458
0.56323 9.639418 112.190498 1.210796
0.004336 1.573443 173.406200
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3384
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.358872 -80.463419 -1.425325
-0.004310 -0.816865 -41.770103
0.14081 -9.358872 -80.463419 -1.425325
-0.004310 -0.219017 -52.572311
0.28161 -9.358872 -80.463419 -1.425325
-0.004310 -0.334217 -66.802117
0.42242 -9.358872 -80.463419 -1.425325
-0.004310 -0.841891 -93.881133
0.56323 -9.358872 -80.463419 -1.425325
-0.004310 -1.349318 -132.641660

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.643095 138.760928 0.873014
0.006565 0.490152 143.727403
0.14081 12.643095 138.760928 0.873014
0.006565 0.134700 132.642330
0.28161 12.643095 138.760928 0.873014
0.006565 0.268344 143.370393
0.42242 12.643095 138.760928 0.873014
0.006565 0.866542 177.705759
0.56323 12.643095 138.760928 0.873014
0.006565 1.081085 210.057461

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.244851 -106.840710 -0.985117
-0.006794 -0.571194 -76.640397
0.14081 -13.244851 -106.840710 -0.985117
-0.006794 -0.158314 -93.203058
0.28161 -13.244851 -106.840710 -0.985117
-0.006794 -0.241999 -110.317875
0.42242 -13.244851 -106.840710 -0.985117
-0.006794 -0.607932 -130.367164
0.56323 -13.244851 -106.840710 -0.985117
-0.006794 -0.973808 -170.829844

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.902113 131.210049 1.210796
0.006401 0.691208 151.643037
0.14081 11.902113 131.210049 1.210796
0.006401 0.185218 143.700477
0.28161 11.902113 131.210049 1.210796
0.006401 0.390068 153.744120
0.42242 11.902113 131.210049 1.210796
0.006401 0.976581 177.916118
0.56323 11.902113 131.210049 1.210796
0.006401 1.573443 215.161289

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.200895 -103.623925 -1.425325
-0.006644 -0.816865 -89.370693
0.14081 -12.200895 -103.623925 -1.425325
-0.006644 -0.219017 -108.908987
0.28161 -12.200895 -103.623925 -1.425325
-0.006644 -0.334217 -129.177246
0.42242 -12.200895 -103.623925 -1.425325
-0.006644 -0.841891 -150.297751
0.56323 -12.200895 -103.623925 -1.425325
-0.006644 -1.349318 -185.448587

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.643095 138.760928 1.210796
0.006565 0.691208 151.643037
0.14081 12.643095 138.760928 1.210796
0.006565 0.185218 143.700477
0.28161 12.643095 138.760928 1.210796
0.006565 0.390068 153.744120
0.42242 12.643095 138.760928 1.210796
0.006565 0.976581 177.916118
0.56323 12.643095 138.760928 1.210796
0.006565 1.573443 215.161289
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3385
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.244851 -106.840710 -1.425325
-0.006794 -0.816865 -89.370693
0.14081 -13.244851 -106.840710 -1.425325
-0.006794 -0.219017 -108.908987
0.28161 -13.244851 -106.840710 -1.425325
-0.006794 -0.334217 -129.177246
0.42242 -13.244851 -106.840710 -1.425325
-0.006794 -0.841891 -150.297751
0.56323 -13.244851 -106.840710 -1.425325
-0.006794 -1.349318 -185.448587

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.643095 138.760928 1.210796
0.006565 0.691208 151.643037
0.14081 12.643095 138.760928 1.210796
0.006565 0.185218 143.700477
0.28161 12.643095 138.760928 1.210796
0.006565 0.390068 153.744120
0.42242 12.643095 138.760928 1.210796
0.006565 0.976581 177.916118
0.56323 12.643095 138.760928 1.210796
0.006565 1.573443 215.161289

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.244851 -106.840710 -1.425325
-0.006794 -0.816865 -89.370693
0.14081 -13.244851 -106.840710 -1.425325
-0.006794 -0.219017 -108.908987
0.28161 -13.244851 -106.840710 -1.425325
-0.006794 -0.334217 -129.177246
0.42242 -13.244851 -106.840710 -1.425325
-0.006794 -0.841891 -150.297751
0.56323 -13.244851 -106.840710 -1.425325
-0.006794 -1.349318 -185.448587

ELEM 320 ========== LENGTH = 2.977328

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 0.058433 18.700068 0.549513
0.000179 0.612124 1.979676
0.57747 0.058433 18.700068 0.549513
0.000179 0.381700 2.382918
0.71832 0.058433 18.700068 0.549513
0.000179 0.151278 3.009018
0.85916 0.058433 18.700068 0.549513
0.000179 0.070818 4.512089
1.00000 0.058433 18.700068 0.549513
0.000179 0.280931 6.173042

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -5.251248 -4.536110 -0.501030
-0.000519 -0.559461 -24.950326
0.57747 -5.251248 -4.536110 -0.501030
-0.000519 -0.349363 -32.372526
0.71832 -5.251248 -4.536110 -0.501030
-0.000519 -0.139291 -39.821361
0.85916 -5.251248 -4.536110 -0.501030
-0.000519 -0.079183 -47.291535
1.00000 -5.251248 -4.536110 -0.501030
-0.000519 -0.309609 -54.862417

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 0.664654 45.017342 0.920734
0.000703 1.025790 31.593052
0.57747 0.664654 45.017342 0.920734
0.000703 0.639813 23.163273
0.71832 0.664654 45.017342 0.920734
0.000703 0.253927 15.997977
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3386
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85916 0.664654 45.017342 0.920734
0.000703 0.117505 11.664167
1.00000 0.664654 45.017342 0.920734
0.000703 0.463392 12.414690

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -9.506217 -8.331674 -0.824745
-0.001232 -0.920005 -28.714908
0.57747 -9.506217 -8.331674 -0.824745
-0.001232 -0.574174 -38.026376
0.71832 -9.506217 -8.331674 -0.824745
-0.001232 -0.229055 -48.944643
0.85916 -9.506217 -8.331674 -0.824745
-0.001232 -0.133075 -62.212497
1.00000 -9.506217 -8.331674 -0.824745
-0.001232 -0.519097 -76.664848

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 0.795330 98.484460 1.019861
0.000491 1.137232 181.213948
0.57747 0.795330 98.484460 1.019861
0.000491 0.709669 149.398658
0.71832 0.795330 98.484460 1.019861
0.000491 0.281882 118.253655
0.85916 0.795330 98.484460 1.019861
0.000491 0.125348 88.958722
1.00000 0.795330 98.484460 1.019861
0.000491 0.496747 62.659144

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -12.691924 -5.963330 -0.885458
-0.000938 -0.988462 -25.307821
0.57747 -12.691924 -5.963330 -0.885458
-0.000938 -0.617195 -34.480651
0.71832 -12.691924 -5.963330 -0.885458
-0.000938 -0.245899 -44.337862
0.85916 -12.691924 -5.963330 -0.885458
-0.000938 -0.145898 -55.778460
1.00000 -12.691924 -5.963330 -0.885458
-0.000938 -0.573269 -67.804111

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 7.733041 85.945173 1.005469
0.004278 1.115273 166.690662
0.57747 7.733041 85.945173 1.005469
0.004278 0.695777 142.179560
0.71832 7.733041 85.945173 1.005469
0.004278 0.277383 126.024850
0.85916 7.733041 85.945173 1.005469
0.004278 0.142277 123.656991
1.00000 7.733041 85.945173 1.005469
0.004278 0.517475 136.044698

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -10.829110 -91.266789 -0.894561
-0.004495 -0.983675 -82.910335
0.57747 -10.829110 -91.266789 -0.894561
-0.004495 -0.608967 -59.474196
0.71832 -10.829110 -91.266789 -0.894561
-0.004495 -0.247502 -49.057747
0.85916 -10.829110 -91.266789 -0.894561
-0.004495 -0.159237 -47.816446
1.00000 -10.829110 -91.266789 -0.894561
-0.004495 -0.580486 -58.592490

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 0.665959 40.980064 0.370801
0.000386 0.413736 73.415196
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3387
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57747 0.665959 40.980064 0.370801
0.000386 0.258269 56.271844
0.71832 0.665959 40.980064 0.370801
0.000386 0.102800 39.880886
0.85916 0.665959 40.980064 0.370801
0.000386 0.044444 24.724527
1.00000 0.665959 40.980064 0.370801
0.000386 0.175698 14.263216

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -5.129698 -1.470208 -0.312953
-0.000485 -0.349212 -3.240134
0.57747 -5.129698 -1.470208 -0.312953
-0.000485 -0.217950 -3.493693
0.71832 -5.129698 -1.470208 -0.312953
-0.000485 -0.086755 -4.570785
0.85916 -5.129698 -1.470208 -0.312953
-0.000485 -0.052816 -7.729307
1.00000 -5.129698 -1.470208 -0.312953
-0.000485 -0.208262 -11.666861

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 4.837061 89.555193 0.510853
0.005155 0.562618 217.232898
0.57747 4.837061 89.555193 0.510853
0.005155 0.351185 183.244791
0.71832 4.837061 89.555193 0.510853
0.005155 0.141500 159.080160
0.85916 4.837061 89.555193 0.510853
0.005155 0.085550 149.597214
1.00000 4.837061 89.555193 0.510853
0.005155 0.277107 143.515170

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -7.951452 -60.569160 -0.456554
-0.005156 -0.481830 -20.794600
0.57747 -7.951452 -60.569160 -0.456554
-0.005156 -0.298743 -3.591237
0.71832 -7.951452 -60.569160 -0.456554
-0.005156 -0.125968 -4.217749
0.85916 -7.951452 -60.569160 -0.456554
-0.005156 -0.093179 -7.548880
1.00000 -7.951452 -60.569160 -0.456554
-0.005156 -0.306929 -11.647823

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 4.583931 96.992858 0.886862
0.004835 0.982175 194.205593
0.57747 4.583931 96.992858 0.886862
0.004835 0.612786 164.778730
0.71832 4.583931 96.992858 0.886862
0.004835 0.244999 144.193112
0.85916 4.583931 96.992858 0.886862
0.004835 0.181477 137.415569
1.00000 4.583931 96.992858 0.886862
0.004835 0.465176 133.121872

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -11.192129 -57.772407 -0.795539
-0.005074 -0.870056 -30.482981
0.57747 -11.192129 -57.772407 -0.795539
-0.005074 -0.536965 -22.189889
0.71832 -11.192129 -57.772407 -0.795539
-0.005074 -0.220237 -29.160893
0.85916 -11.192129 -57.772407 -0.795539
-0.005074 -0.145382 -39.627562
1.00000 -11.192129 -57.772407 -0.795539
-0.005074 -0.516830 -49.958190
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3388
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 10.044506 83.511316 0.978985
0.003794 1.086876 163.822225
0.57747 10.044506 83.511316 0.978985
0.003794 0.678023 138.326058
0.71832 10.044506 83.511316 0.978985
0.003794 0.270150 119.135588
0.85916 10.044506 83.511316 0.978985
0.003794 0.135234 111.060843
1.00000 10.044506 83.511316 0.978985
0.003794 0.496238 121.041226

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -9.619632 -103.502414 -0.860679
-0.003799 -0.947967 -109.263450
0.57747 -9.619632 -103.502414 -0.860679
-0.003799 -0.587395 -78.035742
0.71832 -9.619632 -103.502414 -0.860679
-0.003799 -0.237544 -57.383398
0.85916 -9.619632 -103.502414 -0.860679
-0.003799 -0.152452 -38.361131
1.00000 -9.619632 -103.502414 -0.860679
-0.003799 -0.562707 -44.828225

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 10.114118 5.800192 0.425538
0.000733 0.474083 6.900440
0.57747 10.114118 5.800192 0.425538
0.000733 0.295646 5.064267
0.71832 10.114118 5.800192 0.425538
0.000733 0.117196 4.361058
0.85916 10.114118 5.800192 0.425538
0.000733 0.055775 3.729798
1.00000 10.114118 5.800192 0.425538
0.000733 0.214752 3.120013

COMB DB-G3-1 ---------- MIN

```
REL DIST          P          V2          V3
         T         M2         M3
0.43663   -0.389865  -79.360048   -0.379093
-0.000403   -0.421109 -143.835783
0.57747   -0.389865  -79.360048   -0.379093
-0.000403   -0.262153 -110.601236
0.71832   -0.389865  -79.360048   -0.379093
-0.000403   -0.103305  -77.392474
0.85916   -0.389865  -79.360048   -0.379093
-0.000403   -0.061188  -44.199634
1.00000   -0.389865  -79.360048   -0.379093
-0.000403   -0.239700  -11.016269

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   16.594625   30.537003    0.554096
 0.006736    0.608254   86.358822
0.57747   16.594625   30.537003    0.554096
 0.006736    0.379125   78.466887
0.71832   16.594625   30.537003    0.554096
 0.006736    0.152365   82.535073
0.85916   16.594625   30.537003    0.554096
 0.006736    0.102038  104.106885
1.00000   16.594625   30.537003    0.554096
 0.006736    0.322702  126.171201

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -1.702006 -168.621691   -0.526565
-0.006303   -0.561640 -183.075410
0.57747   -1.702006 -168.621691   -0.526565
-0.006303   -0.341478 -121.204424
0.71832   -1.702006 -168.621691   -0.526565
-0.006303   -0.143436  -80.151315
0.85916   -1.702006 -168.621691   -0.526565
-0.006303   -0.104782  -40.304381
1.00000   -1.702006 -168.621691   -0.526565
-0.006303   -0.336998   -7.643420
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           3389

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   14.505993   76.226698    0.763633
 0.004977    0.845218  187.966200
0.57747   14.505993   76.226698    0.763633
 0.004977    0.527289  159.560730
0.71832   14.505993   76.226698    0.763633
 0.004977    0.210955  139.414740
0.85916   14.505993   76.226698    0.763633
 0.004977    0.115465  131.577755
1.00000   14.505993   76.226698    0.763633
 0.004977    0.399948  125.386205

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -6.167715 -138.215673   -0.678482
-0.004598   -0.738671 -162.767897
0.57747   -6.167715 -138.215673   -0.678482
-0.004598   -0.454824 -111.119061
0.71832   -6.167715 -138.215673   -0.678482
-0.004598   -0.185926  -73.794268
0.85916   -6.167715 -138.215673   -0.678482
-0.004598   -0.126355  -37.342347
1.00000   -6.167715 -138.215673   -0.678482
-0.004598   -0.446195   -8.628740

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   12.440619   80.945274    0.978171
 0.004352    1.085313  165.286042
0.57747   12.440619   80.945274    0.978171
 0.004352    0.677047  137.676009
0.71832   12.440619   80.945274    0.978171
 0.004352    0.270002  118.675790
0.85916   12.440619   80.945274    0.978171
 0.004352    0.138880  110.817773
1.00000   12.440619   80.945274    0.978171
 0.004352    0.502630  106.621675

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -8.571157 -116.965059   -0.867430
-0.004194   -0.952988 -140.510512
0.57747   -8.571157 -116.965059   -0.867430
-0.004194   -0.589636 -102.182884
0.71832   -8.571157 -116.965059   -0.867430
-0.004194   -0.183917  -76.183917
0.85916   -8.571157 -116.965059   -0.867430
-0.004194   -0.154249  -52.061780
1.00000   -8.571157 -116.965059   -0.867430
-0.004194   -0.564142  -34.859014

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    0.097753   24.237912    0.717734
 0.000167    0.800340    2.283879
0.57747    0.097753   24.237912    0.717734
 0.000167    0.498706    3.493931
0.71832    0.097753   24.237912    0.717734
 0.000167    0.197761    5.874433
0.85916    0.097753   24.237912    0.717734
 0.000167    0.090894    8.577334
1.00000    0.097753   24.237912    0.717734
 0.000167    0.360388   11.394572

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -5.882669   -7.322685   -0.643570
-0.000437   -0.717885  -27.680115
0.57747   -5.882669   -7.322685   -0.643570
-0.000437   -0.448104  -36.375134
0.71832   -5.882669   -7.322685   -0.643570
-0.000437   -0.178625  -46.165074
0.85916   -5.882669   -7.322685   -0.643570
-0.000437   -0.101416  -56.036579
1.00000   -5.882669   -7.322685   -0.643570
-0.000437   -0.402323   -6.959328
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           3390

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    0.725464   52.968554    1.174532
 0.000563    1.310016   33.565316
0.57747    0.725464   52.968554    1.174532
 0.000563    0.816781   25.784280
0.71832    0.725464   52.968554    1.174532
 0.000563    0.324499   20.162668
0.85916    0.725464   52.968554    1.174532
 0.000563    0.150888   16.376269
1.00000    0.725464   52.968554    1.174532
 0.000563    0.596738   18.245394

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -9.654728  -11.174995   -1.064522
-0.000991   -1.186942  -30.855862
0.57747   -9.654728  -11.174995   -1.064522
-0.000991   -0.740845  -42.226311
0.71832   -9.654728  -11.174995   -1.064522
-0.000991   -0.295187  -56.190339
0.85916   -9.654728  -11.174995   -1.064522
-0.000991   -0.165464  -71.166000
1.00000   -9.654728  -11.174995   -1.064522
-0.000991   -0.658049  -89.449027

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    0.952418   99.496287    1.304710
 0.000455    1.456266  183.817597
0.57747    0.952418   99.496287    1.304710
 0.000455    0.908326  155.309280
0.71832    0.952418   99.496287    1.304710
 0.000455    0.360246  128.489198
0.85916    0.952418   99.496287    1.304710
 0.000455    0.163270  102.971265
1.00000    0.952418   99.496287    1.304710
 0.000455    0.648068   81.465448

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -12.135628   -9.937784   -1.158070
-0.000814   -1.291849  -27.911342
0.57747   -12.135628   -9.937784   -1.158070
-0.000814   -0.805965  -38.379780
0.71832   -12.135628   -9.937784   -1.158070
-0.000814   -0.320561  -50.660835
0.85916   -12.135628   -9.937784   -1.158070
-0.000814   -0.181952  -63.859392
1.00000   -12.135628   -9.937784   -1.158070
-0.000814   -0.729336  -79.247785

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    6.875214   88.141716    1.313394
 0.003414    1.453006  173.399990
0.57747    6.875214   88.141716    1.313394
 0.003414    0.904695  150.768052
0.71832    6.875214   88.141716    1.313394
 0.003414    0.361312  137.276633
0.85916    6.875214   88.141716    1.313394
 0.003414    0.177319  136.724919
1.00000    6.875214   88.141716    1.313394
 0.003414    0.663214  148.831041

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -10.376802  -83.299997   -1.160585
-0.003571   -1.281798  -78.160772
0.57747   -10.376802  -83.299997   -1.160585
-0.003571   -0.794934  -58.121012
0.71832   -10.376802  -83.299997   -1.160585
-0.003571   -0.319555  -52.733226
0.85916   -10.376802  -83.299997   -1.160585
-0.003571   -0.197409  -55.352366
1.00000   -10.376802  -83.299997   -1.160585
-0.003571   -0.748275  -69.333536
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           3391

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    0.712606   38.762956    0.452026
 0.000313    0.505260   72.138024
0.57747    0.712606   38.762956    0.452026
 0.000313    0.315483   56.468436
0.71832    0.712606   38.762956    0.452026
 0.000313    0.125684   41.306550
0.85916    0.712606   38.762956    0.452026
 0.000313    0.070078   27.170793
1.00000    0.712606   38.762956    0.452026
 0.000313    0.229718   17.001522

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -4.329412   -1.701548   -0.410422
-0.000404   -0.457913   -3.138607
0.57747   -4.329412   -1.701548   -0.410422
-0.000404   -0.285737   -3.904405
0.71832   -4.329412   -1.701548   -0.410422
-0.000404   -0.113714   -5.265093
0.85916   -4.329412   -1.701548   -0.410422
-0.000404   -0.062353   -7.367393
1.00000   -4.329412   -1.701548   -0.410422
-0.000404   -0.252122  -11.565550

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    4.312136   83.329321    0.663662
 0.004470    0.722648  222.030739
0.57747    4.312136   83.329321    0.663662
 0.004470    0.448333  190.264803
0.71832    4.312136   83.329321    0.663662
 0.004470    0.181987  168.558705
0.85916    4.312136   83.329321    0.663662
 0.004470    0.103131  158.258192
1.00000    4.312136   83.329321    0.663662
 0.004470    0.347465  151.669273

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -6.737428  -52.510429   -0.584658
-0.004459   -0.633073  -21.793966
0.57747   -6.737428  -52.510429   -0.584658
-0.004459   -0.387630   -3.849212
0.71832   -6.737428  -52.510429   -0.584658
-0.004459   -0.159974   -4.793346
0.85916   -6.737428  -52.510429   -0.584658
-0.004459   -0.111882   -7.259112
1.00000   -6.737428  -52.510429   -0.584658
-0.004459   -0.390430  -11.848905

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    4.104746   96.108091    1.143819
 0.004200    1.259767  198.252769
0.57747    4.104746   96.108091    1.143819
 0.004200    0.783806  171.303497
0.71832    4.104746   96.108091    1.143819
 0.004200    0.314684  154.477034
0.85916    4.104746   96.108091    1.143819
 0.004200    0.162998  148.077577
1.00000    4.104746   96.108091    1.143819
 0.004200    0.590613  144.154209

COMB DL-G2-3 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -10.300574  -52.460312   -1.022318
-0.004383   -1.123051  -30.924637
0.57747   -10.300574  -52.460312   -1.022318
-0.004383   -0.694210  -22.955032
0.71832   -10.300574  -52.460312   -1.022318
-0.004383   -0.281433  -32.985178
0.85916   -10.300574  -52.460312   -1.022318
-0.004383   -0.177785  -44.277195
1.00000   -10.300574  -52.460312   -1.022318
-0.004383   -0.657530  -56.979093
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           3392

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    9.087239   84.237726    1.277975
 0.003079    1.415853  166.566499
0.57747    9.087239   84.237726    1.277975
 0.003079    0.882140  143.070463
0.71832    9.087239   84.237726    1.277975
 0.003079    0.352243  127.046789
0.85916    9.087239   84.237726    1.277975
 0.003079    0.171419  120.367113
1.00000    9.087239   84.237726    1.277975
 0.003079    0.645459  133.232798

COMB DL-G2-4 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -8.857740  -96.178604   -1.132111
-0.003065   -1.251819 -100.846086
0.57747   -8.857740  -96.178604   -1.132111
-0.003065   -0.776976  -72.701574
0.71832   -8.857740  -96.178604   -1.132111
-0.003065   -0.311215  -56.597910
0.85916   -8.857740  -96.178604   -1.132111
-0.003065   -0.190280  -43.424095
1.00000   -8.857740  -96.178604   -1.132111
-0.003065   -0.726429  -52.855882

COMB DL-G3-1 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663    9.519770    8.090422    0.578492
 0.000623    0.644798    7.049456
0.57747    9.519770    8.090422    0.578492
 0.000623    0.402567    5.517939
0.71832    9.519770    8.090422    0.578492
 0.000623    0.159743    4.945210
0.85916    9.519770    8.090422    0.578492
 0.000623    0.074596    4.473332
1.00000    9.519770    8.090422    0.578492
 0.000623    0.294168    4.036649

COMB DL-G3-1 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -0.363573  -77.828116   -0.521981
-0.000326   -0.581302 -142.826627
0.57747   -0.363573  -77.828116   -0.521981
-0.000326   -0.362191 -111.905384
0.71832   -0.363573  -77.828116   -0.521981
-0.000326   -0.142456  -81.486951
0.85916   -0.363573  -77.828116   -0.521981
-0.000326   -0.082301  -51.095025
1.00000   -0.363573  -77.828116   -0.521981
-0.000326   -0.325719  -20.720579

COMB DL-G3-2 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   15.635196   31.018330    0.779145
 0.006644    0.841474   91.705808
0.57747   15.635196   31.018330    0.779145
 0.006644    0.521385   84.410371
0.71832   15.635196   31.018330    0.779145
 0.006644    0.213024   91.642048
0.85916   15.635196   31.018330    0.779145
 0.006644    0.128327  114.543052
1.00000   15.635196   31.018330    0.779145
 0.006644    0.420888  137.820758

COMB DL-G3-2 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -1.446105 -163.296586   -0.696601
-0.006237   -0.748770 -181.259493
0.57747   -1.446105 -163.296586   -0.696601
-0.006237   -0.456514 -118.173409
0.71832   -1.446105 -163.296586   -0.696601
-0.006237   -0.188083  -81.738360
0.85916   -1.446105 -163.296586   -0.696601
-0.006237   -0.113714  -46.706190
1.00000   -1.446105 -163.296586   -0.696601
-0.006237   -0.466940  -13.849019
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           3393

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   13.780216   70.103122    1.022858
 0.005088    1.121710  186.430419
0.57747   13.780216   70.103122    1.022858
 0.005088    0.697376  161.542771
0.71832   13.780216   70.103122    1.022858
 0.005088    0.281012  147.307890
0.85916   13.780216   70.103122    1.022858
 0.005088    0.149795  144.428608
1.00000   13.780216   70.103122    1.022858
 0.005088    0.529363  142.075737

COMB DL-G3-3 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -5.098415 -135.542496   -0.905718
-0.004734   -0.989713 -160.508031
0.57747   -5.098415 -135.542496   -0.905718
-0.004734   -0.609415 -107.985124
0.71832   -5.098415 -135.542496   -0.905718
-0.004734   -0.246653  -74.821714
0.85916   -5.098415 -135.542496   -0.905718
-0.004734   -0.164329  -42.679030
1.00000   -5.098415 -135.542496   -0.905718
-0.004734   -0.594000  -13.042951

COMB DL-G3-4 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   11.844076   79.147873    1.281300
 0.004408    1.413508  164.291204
0.57747   11.844076   79.147873    1.281300
 0.004408    0.880157  139.793692
0.71832   11.844076   79.147873    1.281300
 0.004408    0.352863  126.513342
0.85916   11.844076   79.147873    1.281300
 0.004408    0.180445  123.313368
1.00000   11.844076   79.147873    1.281300
 0.004408    0.661439  122.690073

COMB DL-G3-4 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -7.583079 -116.083234   -1.148262
-0.004248   -1.264018 -138.639386
0.57747   -7.583079 -116.083234   -1.148262
-0.004248   -0.781955  -99.601567
0.71832   -7.583079 -116.083234   -1.148262
-0.004248   -0.314635  -78.421873
0.85916   -7.583079 -116.083234   -1.148262
-0.004248   -0.196984  -58.541500
1.00000   -7.583079 -116.083234   -1.148262
-0.004248   -0.735075  -41.938709

COMB      DB ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   16.594625   98.484460    1.019861
 0.006736    1.137232  217.232898
0.57747   16.594625   98.484460    1.019861
 0.006736    0.709669  183.244791
0.71832   16.594625   98.484460    1.019861
 0.006736    0.281882  159.080160
0.85916   16.594625   98.484460    1.019861
 0.006736    0.142277  149.597214
1.00000   16.594625   98.484460    1.019861
 0.006736    0.517475  143.515170

COMB      DB ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -12.691924 -168.621691   -0.894561
-0.006303   -0.988462 -183.075410
0.57747   -12.691924 -168.621691   -0.894561
-0.006303   -0.617195 -121.204424
0.71832   -12.691924 -168.621691   -0.894561
-0.006303   -0.247502  -80.151315
0.85916   -12.691924 -168.621691   -0.894561
-0.006303   -0.159237  -52.212497
1.00000   -12.691924 -168.621691   -0.894561
-0.006303   -0.580486  -76.644048
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           3394

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   15.635196   99.496287    1.313394
 0.006644    1.456266  222.030739
0.57747   15.635196   99.496287    1.313394
 0.006644    0.908326  190.264803
0.71832   15.635196   99.496287    1.313394
 0.006644    0.361312  168.558705
0.85916   15.635196   99.496287    1.313394
 0.006644    0.180445  158.258192
1.00000   15.635196   99.496287    1.313394
 0.006644    0.663214  151.669273

COMB      DL ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -12.135628 -163.296586   -1.160585
-0.006237   -1.291849 -181.259493
0.57747   -12.135628 -163.296586   -1.160585
-0.006237   -0.805965 -118.173409
0.71832   -12.135628 -163.296586   -1.160585
-0.006237   -0.320561  -81.738360
0.85916   -12.135628 -163.296586   -1.160585
-0.006237   -0.197409  -71.166000
1.00000   -12.135628 -163.296586   -1.160585
-0.006237   -0.748275  -89.449027

COMB      CAR ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   16.594625   99.496287    1.313394
 0.006736    1.456266  222.030739
0.57747   16.594625   99.496287    1.313394
 0.006736    0.908326  190.264803
0.71832   16.594625   99.496287    1.313394
 0.006736    0.361312  168.558705
0.85916   16.594625   99.496287    1.313394
 0.006736    0.180445  158.258192
1.00000   16.594625   99.496287    1.313394
 0.006736    0.663214  151.669273

COMB      CAR ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -12.691924 -168.621691   -1.160585
-0.006303   -1.291849 -183.075410
0.57747   -12.691924 -168.621691   -1.160585
-0.006303   -0.805965 -121.204424
0.71832   -12.691924 -168.621691   -1.160585
-0.006303   -0.320561  -81.738360
0.85916   -12.691924 -168.621691   -1.160585
-0.006303   -0.197409  -71.166000
1.00000   -12.691924 -168.621691   -1.160585
-0.006303   -0.748275  -89.449027

COMB      DESIGN ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43663   16.594625   99.496287    1.313394
 0.006736    1.456266  222.030739
0.57747   16.594625   99.496287    1.313394
 0.006736    0.908326  190.264803
0.71832   16.594625   99.496287    1.313394
 0.006736    0.361312  168.558705
0.85916   16.594625   99.496287    1.313394
 0.006736    0.180445  158.258192
1.00000   16.594625   99.496287    1.313394
 0.006736    0.663214  151.669273

COMB      DESIGN ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43663   -12.691924 -168.621691   -1.160585
-0.006303   -1.291849 -183.075410
0.57747   -12.691924 -168.621691   -1.160585
-0.006303   -0.805965 -121.204424
0.71832   -12.691924 -168.621691   -1.160585
-0.006303   -0.320561  -81.738360
0.85916   -12.691924 -168.621691   -1.160585
-0.006303   -0.197409  -71.166000
1.00000   -12.691924 -168.621691   -1.160585
-0.006303   -0.748275  -89.449027
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                           3395

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      321 ================== LENGTH
=    2.977327

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.056534   18.606354    0.527261
 1.07E-05    0.293855    6.180978
0.14084    0.056534   18.606354    0.527261
 1.07E-05    0.072732    7.926788
0.28168    0.056534   18.606354    0.527261
 1.07E-05    0.139850    9.752079
0.42253    0.056534   18.606354    0.527261
 1.07E-05    0.352308   11.597421
0.56337    0.056534   18.606354    0.527261
 1.07E-05    0.564790   13.456847

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.204459   -4.451384   -0.506717
-0.000294   -0.285142  -54.881418
0.14084   -5.204459   -4.451384   -0.506717
-0.000294   -0.072643  -62.566600
```

```
 0.28168   -5.204459   -4.451384   -0.506717
-0.000294   -0.148373   -70.271718
 0.42253   -5.204459   -4.451384   -0.506717
-0.000294   -0.369461   -77.982918
 0.56337   -5.204459   -4.451384   -0.506717
-0.000294   -0.590551   -85.734447

COMB DB-G1-2 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   0.546193   46.239668   0.888256
 0.000281   0.496188   12.436257
 0.14084   0.546193   46.239668   0.888256
 0.000281   0.123772   13.138468
 0.28168   0.546193   46.239668   0.888256
 0.000281   0.229997   14.416733
 0.42253   0.546193   46.239668   0.888256
 0.000281   0.578513   16.543212
 0.56337   0.546193   46.239668   0.888256
 0.000281   0.927713   19.024192

COMB DB-G1-2 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -9.507654   -6.324996   -0.832784
-0.000793   -0.469188   -76.699701
 0.14084   -9.507654   -6.324996   -0.832784
-0.000793   -0.119937   -93.291682
 0.28168   -9.507654   -6.324996   -0.832784
-0.000793   -0.249572   -110.434984
 0.42253   -9.507654   -6.324996   -0.832784
-0.000793   -0.621791   -127.760772
 0.56337   -9.507654   -6.324996   -0.832784
-0.000793   -0.994117   -146.090300

COMB DB-G1-3 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   0.814669   97.355827   0.991902
 0.000440   0.553639   62.630491
 0.14084   0.814669   97.355827   0.991902
 0.000440   0.137716   41.231894
 0.28168   0.814669   97.355827   0.991902
 0.000440   0.246954   36.062208
 0.42253   0.814669   97.355827   0.991902
 0.000440   0.621366   35.177374
 0.56337   0.814669   97.355827   0.991902
 0.000440   0.995813   35.637718

COMB DB-G1-3 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -12.523175   -5.888502   -0.892965
-0.000952   -0.502008   -67.827536
 0.14084   -12.523175   -5.888502   -0.892965
-0.000952   -0.779465   -79.785081
 0.28168   -12.523175   -5.888502   -0.892965
-0.000952   -0.278387   -93.245445
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3396

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST         P          V2          V3
        T         M2          M3
 0.42253   -12.523175   -5.888502   -0.892965
-0.000952   -0.694303   -130.495127
 0.56337   -12.523175   -5.888502   -0.892965
-0.000952   -1.110234   -170.981858

COMB DB-G1-4 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   5.371187   119.653607   0.984300
 0.004071   0.565337   136.215589
 0.14084   5.371187   119.653607   0.984300
 0.004071   0.152717   121.366467
 0.28168   5.371187   119.653607   0.984300
 0.004071   0.248282   119.843984
 0.42253   5.371187   119.653607   0.984300
 0.004071   0.613107   130.370768
 0.56337   5.371187   119.653607   0.984300
 0.004071   0.991092   148.567960

COMB DB-G1-4 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -12.480388   -54.103507   -0.901923
-0.004292   -0.000529   -69.005720
 0.14084   -12.480388   -54.103507   -0.901923
-0.004292   -0.144525   -69.371168
 0.28168   -12.480388   -54.103507   -0.901923
-0.004292   -0.274787   -81.551040
 0.42253   -12.480388   -54.103507   -0.901923
-0.004292   -0.683304   -113.316313
 0.56337   -12.480388   -54.103507   -0.901923
-0.004292   -1.093263   -154.934213

COMB DB-G2-1 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   0.671584   40.511391   0.364406
 0.000212   0.203846   14.249199
 0.14084   0.671584   40.511391   0.364406
 0.000212   0.051095   8.982377
 0.28168   0.671584   40.511391   0.364406
 0.000212   0.087137   7.456679
 0.42253   0.671584   40.511391   0.364406
 0.000212   0.123111   7.590839
 0.56337   0.671584   40.511391   0.364406
 0.000212   0.351077   6.780582

COMB DB-G2-1 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -5.068786   -1.401387   -0.314720
-0.000412   -0.176798   -11.673558
 0.14084   -5.068786   -1.401387   -0.314720
-0.000412   -0.044791   -15.601811
 0.28168   -5.068786   -1.401387   -0.314720
-0.000412   -0.151792   -30.044928
 0.42253   -5.068786   -1.401387   -0.314720
-0.000412   -0.254598   -46.755695
 0.56337   -5.068786   -1.401387   -0.314720
-0.000412   -0.407400   -63.372902

COMB DB-G2-2 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   1.525104   135.928654   0.508518
 0.005304   0.305194   143.768911
 0.14084   1.525104   135.928654   0.508518
 0.005304   0.092118   97.408199
 0.28168   1.525104   135.928654   0.508518
 0.005304   0.126684   68.501733
 0.42253   1.525104   135.928654   0.508518
 0.005304   0.301474   55.771498
 0.56337   1.525104   135.928654   0.508518
 0.005304   0.494294   53.495071

COMB DB-G2-2 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -10.283600   -9.055242   -0.460545
-0.005496   -0.279655   -11.647776
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3397

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST         P          V2          V3
        T         M2          M3
 0.14084   -10.283600   -9.055242   -0.460545
-0.005496   -0.086465   -15.784991
 0.28168   -10.283600   -9.055242   -0.460545
-0.005496   -0.141296   -21.842001
 0.42253   -10.283600   -9.055242   -0.460545
-0.005496   -0.348741   -53.906071
 0.56337   -10.283600   -9.055242   -0.460545
-0.005496   -0.558159   -99.258739

COMB DB-G2-3 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   1.593755   138.761214   0.867660
 0.004786   0.533185   133.357550
 0.14084   1.593755   138.761214   0.867660
 0.004786   0.139514   92.838926
 0.28168   1.593755   138.761214   0.867660
 0.004786   0.221324   68.057700
 0.42253   1.593755   138.761214   0.867660
 0.004786   0.541518   57.833493
 0.56337   1.593755   138.761214   0.867660
 0.004786   0.878007   57.053519

COMB DB-G2-3 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -13.259480   -11.208036   -0.803092
-0.005205   -0.470361   -49.973890
 0.14084   -13.259480   -11.208036   -0.803092
-0.005205   -0.133540   -60.289909
 0.28168   -13.259480   -11.208036   -0.803092
-0.005205   -0.242562   -72.510083
 0.42253   -13.259480   -11.208036   -0.803092
-0.005205   -0.601163   -108.384325
 0.56337   -13.259480   -11.208036   -0.803092
-0.005205   -0.961549   -155.908219

COMB DB-G2-4 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   8.165020   110.690618   0.964203
 0.003637   0.552162   121.157858
 0.14084   8.165020   110.690618   0.964203
 0.003637   0.147924   117.478958
 0.28168   8.165020   110.690618   0.964203
 0.003637   0.237874   127.549466
 0.42253   8.165020   110.690618   0.964203
 0.003637   0.589326   148.003630
 0.56337   8.165020   110.690618   0.964203
 0.003637   0.951467   174.901906

COMB DB-G2-4 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -10.940743   -73.622661   -0.864040
-0.003781   -0.498683   -44.835064
 0.14084   -10.940743   -73.622661   -0.864040
-0.003781   -0.196295   -54.416275
 0.28168   -10.940743   -73.622661   -0.864040
-0.003781   -0.268371   -65.473962
 0.42253   -10.940743   -73.622661   -0.864040
-0.003781   -0.669285   -96.457137
 0.56337   -10.940743   -73.622661   -0.864040
-0.003781   -1.071353   -135.777652

COMB DB-G3-1 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   10.207776   5.822171   0.429587
 0.000841   0.242569   3.116562
 0.14084   10.207776   5.822171   0.429587
 0.000841   0.062400   24.272580
 0.28168   10.207776   5.822171   0.429587
 0.000841   0.102369   57.371443
 0.42253   10.207776   5.822171   0.429587
 0.000841   0.258485   90.743277
 0.56337   10.207776   5.822171   0.429587
 0.000841   0.414620   124.218732
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3398

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -0.380498   -80.022122   -0.372344
-0.000460   -0.209925   -11.059499
 0.14084   -0.380498   -80.022122   -0.372344
-0.000460   -0.053786   -7.550023
 0.28168   -0.380498   -80.022122   -0.372344
-0.000460   -0.117735   -9.159515
 0.42253   -0.380498   -80.022122   -0.372344
-0.000460   -0.297875   -10.966907
 0.56337   -0.380498   -80.022122   -0.372344
-0.000460   -0.478003   -13.174728

COMB DB-G3-2 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   12.660847   88.062800   0.561431
 0.006872   0.341748   126.482993
 0.14084   12.660847   88.062800   0.561431
 0.006872   0.106465   132.643445
 0.28168   12.660847   88.062800   0.561431
 0.006872   0.142632   143.364623
 0.42253   12.660847   88.062800   0.561431
 0.006872   0.339485   170.774285
 0.56337   12.660847   88.062800   0.561431
 0.006872   0.558277   210.061914

COMB DB-G3-2 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -4.657782   -106.812380   -0.522627
-0.006432   -0.320095   -7.627228
 0.14084   -4.657782   -106.812380   -0.522627
-0.006432   -0.100939   -10.094013
 0.28168   -4.657782   -106.812380   -0.522627
-0.006432   -0.153361   -12.606257
 0.42253   -4.657782   -106.812380   -0.522627
-0.006432   -0.381718   -17.423004
 0.56337   -4.657782   -106.812380   -0.522627
-0.006432   -0.612505   -38.877254

COMB DB-G3-3 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   11.847834   115.059904   0.768544
 0.005207   0.479561   125.547715
 0.14084   11.847834   115.059904   0.768544
 0.005207   0.127407   121.904687
 0.28168   11.847834   115.059904   0.768544
 0.005207   0.185427   134.350006
 0.42253   11.847834   115.059904   0.768544
 0.005207   0.453210   160.557088
 0.56337   11.847834   115.059904   0.768544
 0.005207   0.736045   195.601742

COMB DB-G3-3 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -8.109927   -96.029526   -0.675080
-0.004927   -0.397522   -8.612337
 0.14084   -8.109927   -96.029526   -0.675080
-0.004927   -0.114396   -10.900241
 0.28168   -8.109927   -96.029526   -0.675080
-0.004927   -0.211678   -15.235446
 0.42253   -8.109927   -96.029526   -0.675080
-0.004927   -0.529108   -43.507932
 0.56337   -8.109927   -96.029526   -0.675080
-0.004927   -0.848201   -82.266581

COMB DB-G3-4 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   10.244557   112.803263   0.969796
 0.004339   0.558200   106.761231
 0.14084   10.244557   112.803263   0.969796
 0.004339   0.151641   104.680668
 0.28168   10.244557   112.803263   0.969796
 0.004339   0.238724   115.972262
 0.42253   10.244557   112.803263   0.969796
 0.004339   0.589721   138.730391
 0.56337   10.244557   112.803263   0.969796
 0.004339   0.953176   168.804065
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3399

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -10.142960   -82.069409   -0.867239
-0.004319   -0.502488   -34.860477
 0.14084   -10.142960   -82.069409   -0.867239
-0.004319   -0.138746   -43.432480
 0.28168   -10.142960   -82.069409   -0.867239
-0.004319   -0.269017   -53.489106
 0.42253   -10.142960   -82.069409   -0.867239
-0.004319   -0.671671   -83.219749
 0.56337   -10.142960   -82.069409   -0.867239
-0.004319   -1.075704   -122.269606

COMB DL-G1-1 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   0.102596   24.091930   0.705433
 7.81E-06   0.393976   11.411476
 0.14084   0.102596   24.091930   0.705433
 7.81E-06   0.098244   14.348092
 0.28168   0.102596   24.091930   0.705433
 7.81E-06   0.179821   17.354858
 0.42253   0.102596   24.091930   0.705433
 7.81E-06   0.451350   20.381559
 0.56337   0.102596   24.091930   0.705433
 7.81E-06   0.723738   23.421235

COMB DL-G1-1 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -5.847485   -7.257103   -0.649391
-0.000247   -0.365021   -65.987394
 0.14084   -5.847485   -7.257103   -0.649391
-0.000247   -0.092991   -75.955796
 0.28168   -5.847485   -7.257103   -0.649391
-0.000247   -0.195936   -85.973790
 0.42253   -5.847485   -7.257103   -0.649391
-0.000247   -0.491760   -96.023533
 0.56337   -5.847485   -7.257103   -0.649391
-0.000247   -0.788021   -106.095619

COMB DL-G1-2 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   0.670493   53.555164   1.167464
 0.000209   0.653667   18.272167
 0.14084   0.670493   53.555164   1.167464
 0.000209   0.163948   20.676426
 0.28168   0.670493   53.555164   1.167464
 0.000209   0.296155   23.932196
 0.42253   0.670493   53.555164   1.167464
 0.000209   0.744891   27.613355
 0.56337   0.670493   53.555164   1.167464
 0.000209   1.194471   31.636152

COMB DL-G1-2 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -9.655167   -9.977587   -1.072086
-0.000622   -0.602976   -89.499319
 0.14084   -9.655167   -9.977587   -1.072086
-0.000622   -0.153735   -109.094245
 0.28168   -9.655167   -9.977587   -1.072086
-0.000622   -0.323044   -129.422834
 0.42253   -9.655167   -9.977587   -1.072086
-0.000622   -0.492936   -150.476758
 0.56337   -9.655167   -9.977587   -1.072086
-0.000622   -1.302885   -172.476164

COMB DL-G1-3 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   0.973752   98.475967   1.295132
 0.000375   0.723614   81.452531
 0.14084   0.973752   98.475967   1.295132
 0.000375   0.179608   63.353308
 0.28168   0.973752   98.475967   1.295132
 0.000375   0.320692   52.291171
 0.42253   0.973752   98.475967   1.295132
 0.000375   0.806279   49.645507
 0.56337   0.973752   98.475967   1.295132
 0.000375   1.292241   50.289023
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3400

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -12.008561   -9.887142   -1.158342
-0.000787   -0.649179   -79.283313
 0.14084   -12.008561   -9.887142   -1.158342
-0.000787   -0.164165   -94.735207
 0.28168   -12.008561   -9.887142   -1.158342
-0.000787   -0.358389   -112.128035
 0.42253   -12.008561   -9.887142   -1.158342
-0.000787   -0.902556   -147.460331
 0.56337   -12.008561   -9.887142   -1.158342
-0.000787   -1.446838   -185.769295

COMB DL-G1-4 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   5.181170   113.460611   1.307834
 0.003178   0.745053   148.815414
 0.14084   5.181170   113.460611   1.307834
 0.003178   0.195719   140.372687
 0.28168   5.181170   113.460611   1.307834
 0.003178   0.319858   137.714060
 0.42253   5.181170   113.460611   1.307834
 0.003178   0.796997   147.918377
 0.56337   5.181170   113.460611   1.307834
 0.003178   1.285494   166.219085

COMB DL-G1-4 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -11.725585   -55.859651   -1.164422
-0.003363   -0.666592   -69.352288
 0.14084   -11.725585   -55.859651   -1.164422
-0.003363   -0.179084   -83.466054
 0.28168   -11.725585   -55.859651   -1.164422
-0.003363   -0.360002   -99.374197
 0.42253   -11.725585   -55.859651   -1.164422
-0.003363   -0.901024   -129.895256
 0.56337   -11.725585   -55.859651   -1.164422
-0.003363   -1.447540   -170.314304

COMB DL-G2-1 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   0.720633   38.458272   0.459029
 0.000187   0.257343   16.993330
 0.14084   0.720633   38.458272   0.459029
 0.000187   0.064631   9.706791
 0.28168   0.720633   38.458272   0.459029
 0.000187   0.113762   7.557619
 0.42253   0.720633   38.458272   0.459029
 0.000187   0.286007   6.996972
 0.56337   0.720633   38.458272   0.459029
 0.000187   0.458337   6.999254

COMB DL-G2-1 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -4.295268   -1.655552   -0.410879
-0.000335   -0.230498   -11.575789
 0.14084   -4.295268   -1.655552   -0.410879
-0.000335   -0.058130   -17.411988
 0.28168   -4.295268   -1.655552   -0.410879
-0.000335   -0.126169   -30.246172
 0.42253   -4.295268   -1.655552   -0.410879
-0.000335   -0.318833   -45.153594
 0.56337   -4.295268   -1.655552   -0.410879
-0.000335   -0.511690   -60.670423

COMB DL-G2-2 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   1.647690   122.304268   0.667755
 0.004551   0.393475   151.668255
 0.14084   1.647690   122.304268   0.667755
 0.004551   0.112946   111.337499
 0.28168   1.647690   122.304268   0.667755
 0.004551   0.159428   78.585835
 0.42253   1.647690   122.304268   0.667755
 0.004551   0.386103   64.084407
 0.56337   1.647690   122.304268   0.667755
 0.004551   0.630100   61.217024
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3401

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -8.863577   -9.969227   -0.581679
-0.004691   -0.345459   -11.848689
 0.14084   -8.863577   -9.969227   -0.581679
-0.004691   -0.102456   -16.636222
 0.28168   -8.863577   -9.969227   -0.581679
-0.004691   -0.182012   -24.780338
 0.42253   -8.863577   -9.969227   -0.581679
-0.004691   -0.449563   -51.573995
 0.56337   -8.863577   -9.969227   -0.581679
-0.004691   -0.726259   -92.751062

COMB DL-G2-3 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   1.700676   131.239772   1.141609
 0.004108   0.656038   144.169216
 0.14084   1.700676   131.239772   1.141609
 0.004108   0.177117   109.770593
 0.28168   1.700676   131.239772   1.141609
 0.004108   0.281427   82.240955
 0.42253   1.700676   131.239772   1.141609
 0.004108   0.694561   71.273101
 0.56337   1.700676   131.239772   1.141609
 0.004108   1.123602   70.740371

COMB DL-G2-3 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -12.196114   -13.940133   -1.022644
-0.004445   -0.591314   -57.002627
 0.14084   -12.196114   -13.940133   -1.022644
-0.004445   -0.163075   -69.802927
 0.28168   -12.196114   -13.940133   -1.022644
-0.004445   -0.313738   -85.935775
 0.42253   -12.196114   -13.940133   -1.022644
-0.004445   -0.718162   -118.757349
 0.56337   -12.196114   -13.940133   -1.022644
-0.004445   -1.257115   -164.438009

COMB DL-G2-4 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   7.706542   105.175731   1.278091
 0.002903   0.726732   133.198099
 0.14084   7.706542   105.175731   1.278091
 0.002903   0.189991   134.300422
 0.28168   7.706542   105.175731   1.278091
 0.002903   0.311182   141.299899
 0.42253   7.706542   105.175731   1.278091
 0.002903   0.777421   160.352358
 0.56337   7.706542   105.175731   1.278091
 0.002903   1.252723   186.533966

COMB DL-G2-4 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -9.962649   -73.626311   -1.132968
-0.002979   -0.646822   -52.863244
 0.14084   -9.962649   -73.626311   -1.132968
-0.002979   -0.172053   -65.116192
 0.28168   -9.962649   -73.626311   -1.132968
-0.002979   -0.351294   -79.988221
 0.42253   -9.962649   -73.626311   -1.132968
-0.002979   -0.881526   -109.188275
 0.56337   -9.962649   -73.626311   -1.132968
-0.002979   -1.415703   -146.921088

COMB DL-G3-1 ------------------- MAX

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   9.584909   8.075951   0.583458
 0.000736   0.328919   4.029846
 0.14084   9.584909   8.075951   0.583458
 0.000736   0.083386   24.201272
 0.28168   9.584909   8.075951   0.583458
 0.000736   0.142305   56.245287
 0.42253   9.584909   8.075951   0.583458
 0.000736   0.362042   88.727598
 0.56337   9.584909   8.075951   0.583458
 0.000736   0.581128   121.425383
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3402

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

 REL DIST         P          V2          V3
        T         M2          M3
 0.00000   -0.349379   -78.350082   -0.522046
-0.000371   -0.294519   -20.752277
 0.14084   -0.349379   -78.350082   -0.522046
-0.000371   -0.074714   -13.667322
 0.28168   -0.349379   -78.350082   -0.522046
-0.000371   -0.160535   -16.122514
 0.42253   -0.349379   -78.350082   -0.522046
```

```
-0.000371   -0.405315  -18.961010
 0.56337    -0.349379  -78.350082    -0.522046
-0.000371   -0.649922  -22.196808

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.915790   87.309175    0.785410
 0.006727   0.470482   137.847445
 0.14084   11.915790   87.309175    0.785410
 0.006727   0.140656   143.798117
 0.28168   11.915790   87.309175    0.785410
 0.006727   0.187993   153.847907
 0.42253   11.915790   87.309175    0.785410
 0.006727   0.457806   178.025835
 0.56337   11.915790   87.309175    0.785410
 0.006727   0.751288   215.269275

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -4.560939  -103.628510   -0.699406
-0.006332  -0.422424   -13.850986
 0.14084  -4.560939  -103.628510   -0.699406
-0.006332  -0.129156   -16.906998
 0.28168  -4.560939  -103.628510   -0.699406
-0.006332  -0.213791   -20.863444
 0.42253  -4.560939  -103.628510   -0.699406
-0.006332  -0.524416   -27.296404
 0.56337  -4.560939  -103.628510   -0.699406
-0.006332  -0.848086   -52.697281

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.124910   110.259126    1.030426
 0.005228   0.598952   142.053465
 0.14084   11.124910   110.259126    1.030426
 0.005228   0.165802   138.836383
 0.28168   11.124910   110.259126    1.030426
 0.005228   0.246131   142.724485
 0.42253   11.124910   110.259126    1.030426
 0.005228   0.608385   164.005112
 0.56337   11.124910   110.259126    1.030426
 0.005228   0.987948   196.343284

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -7.282064   -92.692699   -0.904133
-0.004960   -0.527969   -13.029522
 0.14084   -7.282064   -92.692699   -0.904133
-0.004960   -0.149485   -16.285735
 0.28168   -7.282064   -92.692699   -0.904133
-0.004960   -0.281638   -23.970195
 0.42253   -7.282064   -92.692699   -0.904133
-0.004960   -0.700764   -46.701983
 0.56337   -7.282064   -92.692699   -0.904133
-0.004960   -1.129081   -83.295365

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   9.646423   112.271733    1.286960
 0.004365   0.738961   122.679381
 0.14084   9.646423   112.271733    1.286960
 0.004365   0.198114   121.526397
 0.28168   9.646423   112.271733    1.286960
 0.004365   0.314402   126.216079
 0.42253   9.646423   112.271733    1.286960
 0.004365   0.781864   145.303868
 0.56337   9.646423   112.271733    1.286960
 0.004365   1.263838   173.610573
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD          >
                                    3403

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.372475   -80.510761   -1.148404
-0.004313   -0.661886   -41.951197
 0.14084   -9.372475   -80.510761   -1.148404
-0.004313   -0.180931   -52.787383
 0.28168   -9.372475   -80.510761   -1.148404
-0.004313   -0.353088   -67.057390
 0.42253   -9.372475   -80.510761   -1.148404
-0.004313   -0.888185   -94.191374
 0.56337   -9.372475   -80.510761   -1.148404
-0.004313   -1.418952  -132.989449

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.660847   138.761214    0.991902
 0.006872   0.565337   143.768911
 0.14084   12.660847   138.761214    0.991902
 0.006872   0.152717   132.643445
 0.28168   12.660847   138.761214    0.991902
 0.006872   0.248282   143.364623
 0.42253   12.660847   138.761214    0.991902
 0.006872   0.621366   170.774285
 0.56337   12.660847   138.761214    0.991902
 0.006872   0.995813   210.061914

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.259480  -106.812380   -0.901923
-0.006432   -0.522799   -76.699701
 0.14084  -13.259480  -106.812380   -0.901923
-0.006432   -0.144525   -93.291682
 0.28168  -13.259480  -106.812380   -0.901923
-0.006432   -0.278387   -110.434984
 0.42253  -13.259480  -106.812380   -0.901923
-0.006432   -0.694303   -130.495127
 0.56337  -13.259480  -106.812380   -0.901923
-0.006432   -1.110234   -170.981858

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.915790   131.239772    1.307834
 0.006727   0.745053   151.668255
 0.14084   11.915790   131.239772    1.307834
 0.006727   0.198114   143.790117
 0.28168   11.915790   131.239772    1.307834
 0.006727   0.320692   153.847907
 0.42253   11.915790   131.239772    1.307834
 0.006727   0.806279   178.025835
 0.56337   11.915790   131.239772    1.307834
 0.006727   1.292241   215.269275

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.196114  -103.628510   -1.164422
-0.006332   -0.666592   -89.499319
 0.14084  -12.196114  -103.628510   -1.164422
-0.006332   -0.180931   -109.094245
 0.28168  -12.196114  -103.628510   -1.164422
-0.006332   -0.360002   -129.422834
 0.42253  -12.196114  -103.628510   -1.164422
-0.006332   -0.902556   -150.605158
 0.56337  -12.196114  -103.628510   -1.164422
-0.006332   -1.447540   -185.769295

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.660847   138.761214    1.307834
 0.006872   0.745053   151.668255
 0.14084   12.660847   138.761214    1.307834
 0.006872   0.198114   143.790117
 0.28168   12.660847   138.761214    1.307834
 0.006872   0.320692   153.847907
 0.42253   12.660847   138.761214    1.307834
 0.006872   0.806279   178.025835
 0.56337   12.660847   138.761214    1.307834
 0.006872   1.292241   215.269275
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD          >
                                    3404

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.259480  -106.812380   -1.164422
-0.006432   -0.666592   -89.499319
 0.14084  -13.259480  -106.812380   -1.164422
-0.006432   -0.180931   -109.094245
 0.28168  -13.259480  -106.812380   -1.164422
-0.006432   -0.360002   -129.422834
 0.42253  -13.259480  -106.812380   -1.164422
-0.006432   -0.902556   -150.605158
 0.56337  -13.259480  -106.812380   -1.164422
-0.006432   -1.447540   -185.769295

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   12.660847   138.761214    1.307834
 0.006872   0.745053   151.668255
 0.14084   12.660847   138.761214    1.307834
 0.006872   0.198114   143.790117
 0.28168   12.660847   138.761214    1.307834
 0.006872   0.320692   153.847907
 0.42253   12.660847   138.761214    1.307834
 0.006872   0.806279   178.025835
 0.56337   12.660847   138.761214    1.307834
 0.006872   1.292241   215.269275

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -13.259480  -106.812380   -1.164422
-0.006432   -0.666592   -89.499319
 0.14084  -13.259480  -106.812380   -1.164422
-0.006432   -0.180931   -109.094245
 0.28168  -13.259480  -106.812380   -1.164422
-0.006432   -0.360002   -129.422834
 0.42253  -13.259480  -106.812380   -1.164422
-0.006432   -0.902556   -150.605158
 0.56337  -13.259480  -106.812380   -1.164422
-0.006432   -1.447540   -185.769295

ELEM     322 ================== LENGTH
=    2.977346

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   0.565638   17.073688    0.665118
 1.36E-05   0.740947   2.260476
 0.57747   0.565638   17.073688    0.665118
 1.36E-05   0.462040   2.232791
 0.71832   0.565638   17.073688    0.665118
 1.36E-05   0.183163   2.977714
 0.85916   0.565638   17.073688    0.665118
 1.36E-05   0.075602   5.611082
 1.00000   0.565638   17.073688    0.665118
 1.36E-05   0.298202   8.688415

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -4.423466   -8.096309   -0.530321
-0.000861   -0.591333   -23.420852
 0.57747  -4.423466   -8.096309   -0.530321
-0.000861   -0.368958   -29.913159
 0.71832  -4.423466   -8.096309   -0.530321
-0.000861   -0.146592   -36.440665
 0.85916  -4.423466   -8.096309   -0.530321
-0.000861   -0.095782   -43.025552
 1.00000  -4.423466   -8.096309   -0.530321
-0.000861   -0.374686   -49.719461

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   1.140982   42.553699    1.111614
 0.000315   1.238661   30.291230
 0.57747   1.140982   42.553699    1.111614
 0.000315   0.772541   22.242889
 0.71832   1.140982   42.553699    1.111614
 0.000315   0.307122   15.475101
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD          >
                                    3405

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
 0.85916   1.140982   42.553699    1.111614
 0.000315   0.125562   12.345980
 1.00000   1.140982   42.553699    1.111614
 0.000315   0.491700   15.560414

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -8.791021   -13.841944   -0.873085
-0.001705   -0.972807   -29.746708
 0.57747  -8.791021   -13.841944   -0.873085
-0.001705   -0.606918   -36.638601
 0.71832  -8.791021   -13.841944   -0.873085
-0.001705   -0.241253   -46.109977
 0.85916  -8.791021   -13.841944   -0.873085
-0.001705   -0.159816   -58.270002
 1.00000  -8.791021   -13.841944   -0.873085
-0.001705   -0.625924   -71.178864

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   1.200512   96.284027    1.270556
 5.76E-05   1.417228   176.477622
 0.57747   1.200512   96.284027    1.270556
 5.76E-05   0.884425   144.860738
 0.71832   1.200512   96.284027    1.270556
 5.76E-05   0.351638   113.980186
 0.85916   1.200512   96.284027    1.270556
 5.76E-05   0.134685   85.880620
 1.00000   1.200512   96.284027    1.270556
 5.76E-05   0.531034   61.718878

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -12.178428   -10.760473   -0.945021
-0.001337   -1.054097   -27.628417
 0.57747  -12.178428   -10.760473   -0.945021
-0.001337   -0.657823   -34.535602
 0.71832  -12.178428   -10.760473   -0.945021
-0.001337   -0.261523   -42.787671
 0.85916  -12.178428   -10.760473   -0.945021
-0.001337   -0.181312   -52.830907
 1.00000  -12.178428   -10.760473   -0.945021
-0.001337   -0.713815   -63.289090

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   7.912005   85.753010    1.238443
 0.004067   1.366934   164.285148
 0.57747   7.912005   85.753010    1.238443
 0.004067   0.847947   138.290439
 0.71832   7.912005   85.753010    1.238443
 0.004067   0.342119   121.523706
 0.85916   7.912005   85.753010    1.238443
 0.004067   0.143261   119.490076
 1.00000   7.912005   85.753010    1.238443
 0.004067   0.518170   132.483689

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -10.509853   -93.730052   -0.894668
-0.004641   -0.983317   -85.038046
 0.57747  -10.509853   -93.730052   -0.894668
-0.004641   -0.612510   -60.035817
 0.71832  -10.509853   -93.730052   -0.894668
-0.004641   -0.246043   -48.349748
 0.85916  -10.509853   -93.730052   -0.894668
-0.004641   -0.191881   -45.530606
 1.00000  -10.509853   -93.730052   -0.894668
-0.004641   -0.711010   -55.620175

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   0.602274   40.253698    0.453112
 0.000201   0.506045   70.673409
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD          >
                                    3406

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
 0.57747   0.602274   40.253698    0.453112
 0.000201   0.316040   54.406788
 0.71832   0.602274   40.253698    0.453112
 0.000201   0.126122   38.509866
 0.85916   0.602274   40.253698    0.453112
 0.000201   0.047706   23.225211
 1.00000   0.602274   40.253698    0.453112
 0.000201   0.188040   13.953255

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -5.361732   -3.161484   -0.334573
-0.000620   -0.373156   -6.765459
 0.57747  -5.361732   -3.161484   -0.334573
-0.000620   -0.232856   -5.670664
 0.71832  -5.361732   -3.161484   -0.334573
-0.000620   -0.092539   -6.229360
 0.85916  -5.361732   -3.161484   -0.334573
-0.000620   -0.063996   -9.088763
 1.00000  -5.361732   -3.161484   -0.334573
-0.000620   -0.253958   -12.508959

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   4.718809   89.232323    0.700719
 0.004936   0.763481   211.560313
 0.57747   4.718809   89.232323    0.700719
 0.004936   0.470106   177.291215
 0.71832   4.718809   89.232323    0.700719
 0.004936   0.194747   153.221326
 0.85916   4.718809   89.232323    0.700719
 0.004936   0.084446   143.558067
 1.00000   4.718809   89.232323    0.700719
 0.004936   0.270897   137.933706

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -8.238175   -61.262601   -0.445509
-0.005195   -0.477491   -25.826136
 0.57747  -8.238175   -61.262601   -0.445509
-0.005195   -0.296658   -6.900091
 0.71832  -8.238175   -61.262601   -0.445509
-0.005195   -0.121824   -6.177557
 0.85916  -8.238175   -61.262601   -0.445509
-0.005195   -0.054309   -9.354156
 1.00000  -8.238175   -61.262601   -0.445509
-0.005195   -0.412755   -12.601004

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   4.713238   95.387266    1.146228
 0.004449   1.261766   189.382743
 0.57747   4.713238   95.387266    1.146228
 0.004449   0.781539   159.346007
 0.71832   4.713238   95.387266    1.146228
 0.004449   0.317578   138.479514
 0.85916   4.713238   95.387266    1.146228
 0.004449   0.134370   132.353977
 1.00000   4.713238   95.387266    1.146228
 0.004449   0.473244   129.590347

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -11.060611   -61.013241   -0.808872
-0.005356   -0.884521   -34.493853
 0.57747  -11.060611   -61.013241   -0.808872
-0.005356   -0.550741   -24.070751
 0.71832  -11.060611   -61.013241   -0.808872
-0.005356   -0.222363   -29.836455
 0.85916  -11.060611   -61.013241   -0.808872
-0.005356   -0.181278   -38.505663
 1.00000  -11.060611   -61.013241   -0.808872
-0.005356   -0.661655   -47.695458
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD          >
                                    3407

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   9.884204   84.616239    1.167940
 0.003669   1.291032   162.788002
 0.57747   9.884204   84.616239    1.167940
 0.003669   0.801544   135.875272
 0.71832   9.884204   84.616239    1.167940
 0.003669   0.322685   115.427959
 0.85916   9.884204   84.616239    1.167940
 0.003669   0.133646   106.831690
 1.00000   9.884204   84.616239    1.167940
 0.003669   0.488181   116.571635

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   -9.759578  -104.301022   -0.845864
-0.003798   -0.931290   -110.961361
 0.57747   -9.759578  -104.301022   -0.845864
-0.003798   -0.580142   -78.824683
 0.71832   -9.759578  -104.301022   -0.845864
-0.003798   -0.232537   -57.556537
 0.85916   -9.759578  -104.301022   -0.845864
-0.003798   -0.178966   -38.454349
 1.00000   -9.759578  -104.301022   -0.845864
-0.003798   -0.668510   -44.162955

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   9.610642   9.925352    0.396563
 0.001067   0.441204   11.546510
 0.57747   9.610642   9.925352    0.396563
 0.001067   0.274911   7.695740
 0.71832   9.610642   9.925352    0.396563
 0.001067   0.108631   4.343477
 0.85916   9.610642   9.925352    0.396563
 0.001067   0.047865   3.711146
 1.00000   9.610642   9.925352    0.396563
 0.001067   0.184987   3.230306

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -0.878426  -76.504611   -0.327018
-7.28E-06   -0.363557   -140.031658
 0.57747  -0.878426  -76.504611   -0.327018
-7.28E-06   -0.226435   -107.995295
 0.71832  -0.878426  -76.504611   -0.327018
-7.28E-06   -0.089332   -75.986973
 0.85916  -0.878426  -76.504611   -0.327018
-7.28E-06   -0.057626   -43.987090
 1.00000  -0.878426  -76.504611   -0.327018
-7.28E-06   -0.223969   -12.022302

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   16.132778   35.591494    0.604523
 0.007190   0.649830   90.343258
 0.57747   16.132778   35.591494    0.604523
 0.007190   0.396916   79.214990
 0.71832   16.132778   35.591494    0.604523
 0.007190   0.165937   80.665042
 0.85916   16.132778   35.591494    0.604523
 0.007190   0.086974   101.005115
 1.00000   16.132778   35.591494    0.604523
 0.007190   0.262982   122.716496

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -2.234336  -164.926279   -0.420960
-0.005773   -0.444476   -180.374523
 0.57747  -2.234336  -164.926279   -0.420960
-0.005773   -0.275226   -119.471626
 0.71832  -2.234336  -164.926279   -0.420960
-0.005773   -0.113274   -79.022082
 0.85916  -2.234336  -164.926279   -0.420960
-0.005773   -0.111869   -40.611196
 1.00000  -2.234336  -164.926279   -0.420960
-0.005773   -0.365395   -10.450206
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD          >
                                    3408

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   13.920258   80.455352    0.876710
 0.005190   0.961472   188.415063
 0.57747   13.920258   80.455352    0.876710
 0.005190   0.594232   157.435573
 0.71832   13.920258   80.455352    0.876710
 0.005190   0.241975   135.235912
 0.85916   13.920258   80.455352    0.876710
 0.005190   0.105726   126.277468
 1.00000   13.920258   80.455352    0.876710
 0.005190   0.361813   119.030536

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -6.849575  -135.185005   -0.611397
-0.004143   -0.664642   -162.738382
 0.57747  -6.849575  -135.185005   -0.611397
-0.004143   -0.413263   -111.575676
 0.71832  -6.849575  -135.185005   -0.611397
-0.004143   -0.166889   -74.485912
 0.85916  -6.849575  -135.185005   -0.611397
-0.004143   -0.154195   -37.396474
 1.00000  -6.849575  -135.185005   -0.611397
-0.004143   -0.509800   -11.779493

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   12.000813   83.332644    1.140781
 0.004338   1.258880   164.764921
 0.57747   12.000813   83.332644    1.140781
 0.004338   0.780828   135.763586
 0.71832   12.000813   83.332644    1.140781
 0.004338   0.315181   115.140398
 0.85916   12.000813   83.332644    1.140781
 0.004338   0.133878   106.596306
 1.00000   12.000813   83.332644    1.140781
 0.004338   0.481967   102.227408

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -9.047629  -116.456020   -0.830605
-0.004000   -0.912019   -141.370755
 0.57747  -9.047629  -116.456020   -0.830605
-0.004000   -0.567847   -102.446056
 0.71832  -9.047629  -116.456020   -0.830605
-0.004000   -0.227830   -76.148388
 0.85916  -9.047629  -116.456020   -0.830605
-0.004000   -0.177031   -52.363500
 1.00000  -9.047629  -116.456020   -0.830605
-0.004000   -0.655208   -36.053735

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43663   0.783033   21.387841    0.921193
 9.88E-06   1.026034   2.989766
 0.57747   0.783033   21.387841    0.921193
 9.88E-06   0.639441   12.808900
 0.71832   0.783033   21.387841    0.921193
 9.88E-06   0.252530   4.968570
 0.85916   0.783033   21.387841    0.921193
 9.88E-06   0.103543   8.950894
 1.00000   0.783033   21.387841    0.921193
 9.88E-06   0.410828   13.210507

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43663  -4.468252  -10.804265   -0.730758
-0.000819   -0.815055   -29.493405
 0.57747  -4.468252  -10.804265   -0.730758
-0.000819   -0.508755   -34.744058
 0.71832  -4.468252  -10.804265   -0.730758
-0.000819   -0.202099   -41.987659
 0.85916  -4.468252  -10.804265   -0.730758
-0.000819   -0.131246   -50.505916
 1.00000  -4.468252  -10.804265   -0.730758
-0.000819   -0.517501   -59.132478
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                  MOVING          LOAD          >
                                    3409
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.313118	48.725067	1.522674
0.000247	1.697771	32.810081	
0.57747	1.313118	48.725067	1.522674
0.000247	1.129795	33.729893	
0.71832	1.313118	48.725067	1.522674
0.000247	0.419623	17.896888	
0.85916	1.313118	48.725067	1.522674
0.000247	0.173666	16.291333	
1.00000	1.313118	48.725067	1.522674
0.000247	0.683167	20.192686	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.893549	-16.718313	-1.212772
-0.001516	-1.351304	-36.191388	
0.57747	-8.893549	-16.718313	-1.212772
-0.001516	-0.842751	-42.457980	
0.71832	-8.893549	-16.718313	-1.212772
-0.001516	-0.334479	-52.673761	
0.85916	-8.893549	-16.718313	-1.212772
-0.001516	-0.215312	-65.936298	
1.00000	-8.893549	-16.718313	-1.212772
-0.001516	-0.854188	-82.044201	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.407648	95.293555	1.743017
7.61E-05	1.944292	177.685337	
0.57747	1.407648	95.293555	1.743017
7.61E-05	1.212923	148.164174	
0.71832	1.407648	95.293555	1.743017
7.61E-05	0.481373	121.275513	
0.85916	1.407648	95.293555	1.743017
7.61E-05	0.187507	97.755726	
1.00000	1.407648	95.293555	1.743017
7.61E-05	0.742573	78.080982	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.579477	-14.855330	-1.321085
-0.001264	-1.472533	-33.574018	
0.57747	-11.579477	-14.855330	-1.321085
-0.001264	-0.918077	-39.418384	
0.71832	-11.579477	-14.855330	-1.321085
-0.001264	-0.364034	-48.140784	
0.85916	-11.579477	-14.855330	-1.321085
-0.001264	-0.244543	-59.494014	
1.00000	-11.579477	-14.855330	-1.321085
-0.001264	-0.975378	-72.676451	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	7.163377	86.406089	1.661861
0.003255	1.841420	170.135734	
0.57747	7.163377	86.406089	1.661861
0.003255	1.144606	145.218087	
0.71832	7.163377	86.406089	1.661861
0.003255	0.458293	130.176807	
0.85916	7.163377	86.406089	1.661861
0.003255	0.185267	129.957029	
1.00000	7.163377	86.406089	1.661861
0.003255	0.689464	142.488851	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.984899	-85.661650	-1.202618
-0.003818	-1.327458	-83.099806	
0.57747	-9.984899	-85.661650	-1.202618
-0.003818	-0.824825	-59.433963	
0.71832	-9.984899	-85.661650	-1.202618
-0.003818	-0.329700	-50.780569	
0.85916	-9.984899	-85.661650	-1.202618
-0.003818	-0.247886	-51.579469	
1.00000	-9.984899	-85.661650	-1.202618
-0.003818	-0.943471	-64.258368	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3410

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.594665	37.767636	0.609891
0.000197	0.681869	68.946445	
0.57747	0.594665	37.767636	0.609891
0.000197	0.426011	53.539189	
0.71832	0.594665	37.767636	0.609891
0.000197	0.170130	38.817494	
0.85916	0.594665	37.767636	0.609891
0.000197	0.067886	25.488406	
1.00000	0.594665	37.767636	0.609891
0.000197	0.266145	15.805345	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.179910	-3.633254	-0.472041
-0.000527	-0.525650	-6.666239	
0.57747	-5.179910	-3.633254	-0.472041
-0.000527	-0.327714	-6.204640	
0.71832	-5.179910	-3.633254	-0.472041
-0.000527	-0.129494	-6.832835	
0.85916	-5.179910	-3.633254	-0.472041
-0.000527	-0.084297	-8.554049	
1.00000	-5.179910	-3.633254	-0.472041
-0.000527	-0.340068	-12.067217	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.210067	82.596850	0.933547
0.004291	1.023768	213.958441	
0.57747	4.210067	82.596850	0.933547
0.004291	0.763417	182.203738	
0.71832	4.210067	82.596850	0.933547
0.004291	0.258262	160.144370	
0.85916	4.210067	82.596850	0.933547
0.004291	0.109629	150.244029	
1.00000	4.210067	82.596850	0.933547
0.004291	0.374020	143.976416	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-7.532416	-53.462216	-0.628844
-0.004515	-0.680873	-26.088130	
0.57747	-7.532416	-53.462216	-0.628844
-0.004515	-0.420247	-6.983235	
0.71832	-7.532416	-53.462216	-0.628844
-0.004515	-0.170441	-6.537639	
0.85916	-7.532416	-53.462216	-0.628844
-0.004515	-0.149422	-8.488898	
1.00000	-7.532416	-53.462216	-0.628844
-0.004515	-0.540631	-12.306417	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.210333	93.341466	1.544770
0.003868	1.707149	191.667000	
0.57747	4.210333	93.341466	1.544770
0.003868	1.059154	163.815496	
0.71832	4.210333	93.341466	1.544770
0.003868	0.426431	145.824600	
0.85916	4.210333	93.341466	1.544770
0.003868	0.179140	140.697074	
1.00000	4.210333	93.341466	1.544770
0.003868	0.654485	138.240232	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.440334	-55.915543	-1.130551
-0.004703	-1.241985	-37.404848	
0.57747	-10.440334	-55.915543	-1.130551
-0.004703	-0.770698	-25.981001	
0.71832	-10.440334	-55.915543	-1.130551
-0.004703	-0.308432	-32.304071	
0.85916	-10.440334	-55.915543	-1.130551
-0.004703	-0.234313	-42.039836	
1.00000	-10.440334	-55.915543	-1.130551
-0.004703	-0.881982	-53.067771	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3411

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.799830	84.317146	1.541444
0.003009	1.709491	164.796685	
0.57747	8.799830	84.317146	1.541444
0.003009	1.063199	139.058061	
0.71832	8.799830	84.317146	1.541444
0.003009	0.426110	120.801807	
0.85916	8.799830	84.317146	1.541444
0.003009	0.189914	114.003779	
1.00000	8.799830	84.317146	1.541444
0.003009	0.632315	126.217289	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.154737	-96.566656	-1.101310
-0.003165	-1.215272	-104.438063	
0.57747	-9.154737	-96.566656	-1.101310
-0.003165	-0.755071	-73.943329	
0.71832	-9.154737	-96.566656	-1.101310
-0.003165	-0.300890	-55.544791	
0.85916	-9.154737	-96.566656	-1.101310
-0.003165	-0.229115	-42.044584	
1.00000	-9.154737	-96.566656	-1.101310
-0.003165	-0.874631	-50.296473	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.679226	12.378986	0.479952
0.000989	0.533781	12.715653	
0.57747	8.679226	12.378986	0.479952
0.000989	0.332439	7.908004	
0.71832	8.679226	12.378986	0.479952
0.000989	0.131376	4.929351	
0.85916	8.679226	12.378986	0.479952
0.000989	0.050479	4.335883	
1.00000	8.679226	12.378986	0.479952
0.000989	0.190555	4.024772	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.758110	-73.782935	-0.334240
-4.29E-06	-0.369028	-137.221948	
0.57747	-0.758110	-73.782935	-0.334240
-4.29E-06	-0.228968	-106.567790	
0.71832	-0.758110	-73.782935	-0.334240
-4.29E-06	-0.088865	-77.572162	
0.85916	-0.758110	-73.782935	-0.334240
-4.29E-06	-0.069725	-50.036912	
1.00000	-0.758110	-73.782935	-0.334240
-4.29E-06	-0.270613	-22.606199	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	14.933670	36.625843	0.736089
0.007136	0.792409	196.172442	
0.57747	14.933670	36.625843	0.736089
0.007136	0.484440	84.735474	
0.71832	14.933670	36.625843	0.736089
0.007136	0.199865	88.445742	
0.85916	14.933670	36.625843	0.736089
0.007136	0.095406	110.096489	
1.00000	14.933670	36.625843	0.736089
0.007136	0.280408	133.087751	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.861470	-158.262618	-0.442281
-0.005809	-0.461992	-176.821156	
0.57747	-1.861470	-158.262618	-0.442281
-0.005809	-0.281038	-114.019603	
0.71832	-1.861470	-158.262618	-0.442281
-0.005809	-0.115097	-78.184082	
0.85916	-1.861470	-158.262618	-0.442281
-0.005809	-0.134969	-46.072499	
1.00000	-1.861470	-158.262618	-0.442281
-0.005809	-0.442774	-16.895849	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3412

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.934175	74.284893	1.117702
0.005453	1.226724	185.703505	
0.57747	12.934175	74.284893	1.117702
0.005453	0.758198	157.627590	
0.71832	12.934175	74.284893	1.117702
0.005453	0.307060	140.759189	
0.85916	12.934175	74.284893	1.117702
0.005453	0.127113	137.270330	
1.00000	12.934175	74.284893	1.117702
0.005453	0.433172	135.010670	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.936630	-131.690609	-0.729321
-0.004386	-0.789711	-158.402507	
0.57747	-5.936630	-131.690609	-0.729321
-0.004386	-0.486678	-105.815768	
0.71832	-5.936630	-131.690609	-0.729321
-0.004386	-0.194454	-72.952702	
0.85916	-5.936630	-131.690609	-0.729321
-0.004386	-0.178800	-43.044337	
1.00000	-5.936630	-131.690609	-0.729321
-0.004386	-0.646521	-16.119224	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.168617	81.054248	1.487330
0.004563	1.642888	163.245262	
0.57747	11.168617	81.054248	1.487330
0.004563	1.019154	136.084395	
0.71832	11.168617	81.054248	1.487330
0.004563	0.409812	120.169330	
0.85916	11.168617	81.054248	1.487330
0.004563	0.170175	117.185064	
1.00000	11.168617	81.054248	1.487330
0.004563	0.613907	117.328225	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.410101	-114.859149	-1.056550
-0.004154	-1.158010	-139.456825	
0.57747	-8.410101	-114.859149	-1.056550
-0.004154	-0.717294	-98.866077	
0.71832	-8.410101	-114.859149	-1.056550
-0.004154	-0.285245	-76.292760	
0.85916	-8.410101	-114.859149	-1.056550
-0.004154	-0.226952	-57.603073	
1.00000	-8.410101	-114.859149	-1.056550
-0.004154	-0.850013	-42.388896	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	16.132778	96.284027	1.270556
0.007190	1.417228	211.560313	
0.57747	16.132778	96.284027	1.270556
0.007190	0.884425	177.212215	
0.71832	16.132778	96.284027	1.270556
0.007190	0.351638	153.221326	
0.85916	16.132778	96.284027	1.270556
0.007190	0.143261	143.558067	
1.00000	16.132778	96.284027	1.270556
0.007190	0.531034	137.933706	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-12.178428	-164.926279	-0.945021
-0.005773	-1.054097	-180.374523	
0.57747	-12.178428	-164.926279	-0.945021
-0.005773	-0.657823	-119.471626	
0.71832	-12.178428	-164.926279	-0.945021
-0.005773	-0.261523	-79.022082	
0.85916	-12.178428	-164.926279	-0.945021
-0.005773	-0.191881	-58.270002	
1.00000	-12.178428	-164.926279	-0.945021
-0.005773	-0.713815	-71.178864	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3413

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	14.933670	95.293555	1.743017
0.007136	1.944292	213.958441	
0.57747	14.933670	95.293555	1.743017
0.007136	1.212923	182.203738	
0.71832	14.933670	95.293555	1.743017
0.007136	0.481373	160.144370	
0.85916	14.933670	95.293555	1.743017
0.007136	0.187507	150.244029	
1.00000	14.933670	95.293555	1.743017
0.007136	0.742573	143.976416	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.579477	-158.262618	-1.321085
-0.005809	-1.472533	-176.821156	
0.57747	-11.579477	-158.262618	-1.321085
-0.005809	-0.918077	-114.019603	
0.71832	-11.579477	-158.262618	-1.321085
-0.005809	-0.364034	-78.184082	
0.85916	-11.579477	-158.262618	-1.321085
-0.005809	-0.247886	-65.936298	
1.00000	-11.579477	-158.262618	-1.321085
-0.005809	-0.975378	-82.044201	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	16.132778	96.284027	1.743017
0.007190	1.944292	213.958441	
0.57747	16.132778	96.284027	1.743017
0.007190	1.212923	182.203738	
0.71832	16.132778	96.284027	1.743017
0.007190	0.481373	160.144370	
0.85916	16.132778	96.284027	1.743017
0.007190	0.187507	150.244029	
1.00000	16.132778	96.284027	1.743017
0.007190	0.742573	143.976416	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-12.178428	-164.926279	-1.321085
-0.005809	-1.472533	-180.374523	
0.57747	-12.178428	-164.926279	-1.321085
-0.005809	-0.918077	-119.471626	
0.71832	-12.178428	-164.926279	-1.321085
-0.005809	-0.364034	-79.022082	
0.85916	-12.178428	-164.926279	-1.321085
-0.005809	-0.247886	-65.936298	
1.00000	-12.178428	-164.926279	-1.321085
-0.005809	-0.975378	-82.044201	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	16.132778	96.284027	1.743017
0.007190	1.944292	213.958441	
0.57747	16.132778	96.284027	1.743017
0.007190	1.212923	182.203738	
0.71832	16.132778	96.284027	1.743017
0.007190	0.481373	160.144370	
0.85916	16.132778	96.284027	1.743017
0.007190	0.187507	150.244029	
1.00000	16.132778	96.284027	1.743017
0.007190	0.742573	143.976416	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-12.178428	-164.926279	-1.321085
-0.005809	-1.472533	-180.374523	
0.57747	-12.178428	-164.926279	-1.321085
-0.005809	-0.918077	-119.471626	
0.71832	-12.178428	-164.926279	-1.321085
-0.005809	-0.364034	-79.022082	
0.85916	-12.178428	-164.926279	-1.321085
-0.005809	-0.247886	-65.936298	
1.00000	-12.178428	-164.926279	-1.321085
-0.005809	-0.975378	-82.044201	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3414

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 323 ========== LENGTH = 2.977350

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.547092	16.899337	0.635852
6.91E-06	0.353338	8.698201	
0.14084	0.547092	16.899337	0.635852
6.91E-06	0.086770	11.871040	
0.28169	0.547092	16.899337	0.635852
6.91E-06	0.147233	15.101870	
0.42253	0.547092	16.899337	0.635852
6.91E-06	0.369597	18.380277	
0.56337	0.547092	16.899337	0.635852
6.91E-06	0.591973	21.673213	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.379990	-7.883172	-0.530318
-0.000574	-0.297556	-49.735476	
0.14084	-4.379990	-7.883172	-0.530318
-0.000574	-0.075155	-56.535308	
0.28169	-4.379990	-7.883172	-0.530318
-0.000574	-0.179972	-63.408291	
0.42253	-4.379990	-7.883172	-0.530318
-0.000574	-0.446583	-70.290621	
0.56337	-4.379990	-7.883172	-0.530318
-0.000574	-0.713218	-77.194738	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.035300	43.605886	1.074539
0.000187	0.599023	15.586325	
0.14084	1.035300	43.605886	1.074539
0.000187	0.148553	18.551774	
0.28169	1.035300	43.605886	1.074539
0.000187	0.242131	21.962426	
0.42253	1.035300	43.605886	1.074539
0.000187	0.607354	26.016078	
0.56337	1.035300	43.605886	1.074539
0.000187	0.972895	30.711210	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.796847	-11.622723	-0.872133
-0.001240	-0.490003	-71.208461	
0.14084	-8.796847	-11.622723	-0.872133
-0.001240	-0.124251	-86.675099	
0.28169	-8.796847	-11.622723	-0.872133
-0.001240	-0.303107	-102.459301	
0.42253	-8.796847	-11.622723	-0.872133
-0.001240	-0.752991	-118.573731	
0.56337	-8.796847	-11.622723	-0.872133
-0.001240	-1.203573	-135.671979	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.225440	94.869851	1.227603
0.000222	0.683303	61.697898	
0.14084	1.225440	94.869851	1.227603
0.000222	0.168743	45.366652	
0.28169	1.225440	94.869851	1.227603
0.000222	0.262489	43.236715	
0.42253	1.225440	94.869851	1.227603
0.000222	0.658908	44.967618	
0.56337	1.225440	94.869851	1.227603
0.000222	1.055303	47.827061	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.010985	-10.507977	-0.945307
-0.001384	-0.530316	-63.306826	
0.14084	-12.010985	-10.507977	-0.945307
-0.001384	-0.133835	-73.685567	
0.28169	-12.010985	-10.507977	-0.945307
-0.001384	-0.346787	-88.254572	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3415

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42253	-12.010985	-10.507977	-0.945307
-0.001384	-0.861326	-125.951219	
0.56337	-12.010985	-10.507977	-0.945307
-0.001384	-1.376073	-165.268829	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.644145	119.331518	1.203990
0.004004	0.686222	132.663880	
0.14084	5.644145	119.331518	1.203990
0.004004	0.181480	121.220900	
0.28169	5.644145	119.331518	1.203990
0.004004	0.247061	121.818143	
0.42253	5.644145	119.331518	1.203990
0.004004	0.614445	133.889461	
0.56337	5.644145	119.331518	1.203990
0.004004	0.987945	154.636165	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.195590	-56.691318	-0.898754
-0.004637	-0.519903	-55.619364	
0.14084	-12.195590	-56.691318	-0.898754
-0.004637	-0.143450	-65.794830	
0.28169	-12.195590	-56.691318	-0.898754
-0.004637	-0.338478	-79.801385	
0.42253	-12.195590	-56.691318	-0.898754
-0.004637	-0.829954	-114.141043	
0.56337	-12.195590	-56.691318	-0.898754
-0.004637	-1.334626	-153.956008	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.611316	39.658437	0.447123
9.16E-06	0.249762	13.945069	
0.14084	0.611316	39.658437	0.447123
9.16E-06	0.062407	10.120381	
0.28169	0.611316	39.658437	0.447123
9.16E-06	0.092743	9.465306	
0.42253	0.611316	39.658437	0.447123
9.16E-06	0.232737	9.632593	
0.56337	0.611316	39.658437	0.447123
9.16E-06	0.372711	10.009972	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.299336	-2.993535	-0.333809
-0.000552	-0.187234	-12.513878	
0.14084	-5.299336	-2.993535	-0.333809
-0.000552	-0.047171	-16.325215	
0.28169	-5.299336	-2.993535	-0.333809
-0.000552	-0.125425	-31.591252	
0.42253	-5.299336	-2.993535	-0.333809
-0.000552	-0.312854	-47.367164	
0.56337	-5.299336	-2.993535	-0.333809
-0.000552	-0.500348	-63.631308	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.530129	135.454975	0.689820
0.005087	0.405523	138.194685	
0.14084	1.530129	135.454975	0.689820
0.005087	0.116436	95.196906	

0.28169 1.530129 135.454975 0.689820
0.005087 0.122256 68.115017
0.42253 1.530129 135.454975 0.689820
0.005087 0.297905 56.607783
0.56337 1.530129 135.454975 0.689820
0.005087 0.481928 56.730090

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.614693	-9.984332	-0.449880
-0.005622	-0.273111	-12.597237	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14084	-10.614693	-9.984332	-0.449880
-0.005622	-0.085069	-16.259308	
0.28169	-10.614693	-9.984332	-0.449880
-0.005622	-0.193361	-25.072317	
0.42253	-10.614693	-9.984332	-0.449880
-0.005622	-0.464293	-58.374690	
0.56337	-10.614693	-9.984332	-0.449880
-0.005622	-0.753274	-103.748599	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.838077	136.989099	1.117158
0.004597	0.641120	129.834408	
0.14084	1.838077	136.989099	1.117158
0.004597	0.172896	93.457840	
0.28169	1.838077	136.989099	1.117158
0.004597	0.223257	71.368225	
0.42253	1.838077	136.989099	1.117158
0.004597	0.552116	63.322542	
0.56337	1.838077	136.989099	1.117158
0.004597	0.888607	65.773933	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.169708	-14.563291	-0.812398
-0.005534	-0.474459	-47.705345	
0.14084	-13.169708	-14.563291	-0.812398
-0.005534	-0.134310	-56.927121	
0.28169	-13.169708	-14.563291	-0.812398
-0.005534	-0.314226	-71.219872	
0.42253	-13.169708	-14.563291	-0.812398
-0.005534	-0.766108	-107.424764	
0.56337	-13.169708	-14.563291	-0.812398
-0.005534	-1.234310	-154.483837	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.082981	111.749028	1.141855
0.003652	0.649746	116.698169	
0.14084	8.082981	111.749028	1.141855
0.003652	0.171116	115.755158	
0.28169	8.082981	111.749028	1.141855
0.003652	0.233282	127.201855	
0.42253	8.082981	111.749028	1.141855
0.003652	0.581597	148.689300	
0.56337	8.082981	111.749028	1.141855
0.003652	0.934850	177.276364	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.106841	-74.590482	-0.848961
-0.003852	-0.489414	-44.162689	
0.14084	-11.106841	-74.590482	-0.848961
-0.003852	-0.133725	-53.819224	
0.28169	-11.106841	-74.590482	-0.848961
-0.003852	-0.320004	-67.478690	
0.42253	-11.106841	-74.590482	-0.848961
-0.003852	-0.787949	-99.963957	
0.56337	-11.106841	-74.590482	-0.848961
-0.003852	-1.266597	-139.901958	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.707733	10.095596	0.395991
0.001130	0.225125	3.226024	
0.14084	9.707733	10.095596	0.395991
0.001130	0.057036	22.041763	
0.28169	9.707733	10.095596	0.395991
0.001130	0.089432	54.093253	
0.42253	9.707733	10.095596	0.395991
0.001130	0.226174	86.375510	
0.56337	9.707733	10.095596	0.395991
0.001130	0.362929	118.747812	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.867292	-77.349040	-0.326135
-1.93E-05	-0.184118	-12.060208	
0.14084	-0.867292	-77.349040	-0.326135
-1.93E-05	-0.047383	-11.621772	
0.28169	-0.867292	-77.349040	-0.326135
-1.93E-05	-0.109009	-14.994696	
0.42253	-0.867292	-77.349040	-0.326135
-1.93E-05	-0.275048	-18.617399	
0.56337	-0.867292	-77.349040	-0.326135
-1.93E-05	-0.441097	-22.664486	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.346410	93.330430	0.603173
0.007193	0.363872	123.063187	
0.14084	12.346410	93.330430	0.603173
0.007193	0.111042	126.069930	
0.28169	12.346410	93.330430	0.603173
0.007193	0.113684	136.130729	
0.42253	12.346410	93.330430	0.603173
0.007193	0.276394	162.642613	
0.56337	12.346410	93.330430	0.603173
0.007193	0.449423	202.576369	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.243838	-103.655998	-0.425993
-0.005964	-0.265646	-10.428252	
0.14084	-5.243838	-103.655998	-0.425993
-0.005964	-0.087850	-15.124858	
0.28169	-5.243838	-103.655998	-0.425993
-0.005964	-0.166318	-19.913123	
0.42253	-5.243838	-103.655998	-0.425993
-0.005964	-0.397174	-27.417064	
0.56337	-5.243838	-103.655998	-0.425993
-0.005964	-0.649777	-51.942589	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.366210	119.333496	0.868274
0.005334	0.503785	119.238440	
0.14084	11.366210	119.333496	0.868274
0.005334	0.139778	116.909811	
0.28169	11.366210	119.333496	0.868274
0.005334	0.167380	129.581880	
0.42253	11.366210	119.333496	0.868274
0.005334	0.414395	155.497152	
0.56337	11.366210	119.333496	0.868274
0.005334	0.668482	191.192810	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.826517	-93.411789	-0.615132
-0.004597	-0.363670	-11.757052	
0.14084	-8.826517	-93.411789	-0.615132
-0.004597	-0.106232	-15.503653	
0.28169	-8.826517	-93.411789	-0.615132
-0.004597	-0.241363	-24.619744	
0.42253	-8.826517	-93.411789	-0.615132
-0.004597	-0.590201	-55.559698	
0.56337	-8.826517	-93.411789	-0.615132
-0.004597	-0.954050	-96.274239	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.895092	115.195432	1.122044
0.004419	0.641724	102.407251	
0.14084	9.895092	115.195432	1.122044
0.004419	0.171378	102.163754	
0.28169	9.895092	115.195432	1.122044
0.004419	0.228515	114.439377	
0.42253	9.895092	115.195432	1.122044
0.004419	0.568759	137.721655	
0.56337	9.895092	115.195432	1.122044
0.004419	0.914855	169.117207	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.648570	-81.817163	-0.832955
-0.004203	-0.482604	-36.047922	
0.14084	-10.648570	-81.817163	-0.832955
-0.004203	-0.133699	-45.348135	
0.28169	-10.648570	-81.817163	-0.832955
-0.004203	-0.313384	-58.635599	
0.42253	-10.648570	-81.817163	-0.832955
-0.004203	-0.771260	-90.432674	
0.56337	-10.648570	-81.817163	-0.832955
-0.004203	-1.241575	-130.746932	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.756809	21.102699	0.891830
4.04E-06	0.495801	13.227790	
0.14084	0.756809	21.102699	0.891830
4.04E-06	0.121451	17.559425	
0.28169	0.756809	21.102699	0.891830
4.04E-06	0.204237	21.936050	
0.42253	0.756809	21.102699	0.891830
4.04E-06	0.514791	26.343566	
0.56337	0.756809	21.102699	0.891830
4.04E-06	0.824948	30.761959	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.418763	-10.561067	-0.740022
-0.000549	-0.416316	-59.156932	
0.14084	-4.418763	-10.561067	-0.740022
-0.000549	-0.104999	-67.748720	
0.28169	-4.418763	-10.561067	-0.740022
-0.000549	-0.249629	-76.429866	
0.42253	-4.418763	-10.561067	-0.740022
-0.000549	-0.624335	-85.150152	
0.56337	-4.418763	-10.561067	-0.740022
-0.000549	-0.998638	-93.891578	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.230244	49.036412	1.498877
0.000114	0.838222	20.220818	
0.14084	1.230244	49.036412	1.498877
0.000114	0.207260	25.032099	
0.28169	1.230244	49.036412	1.498877
0.000114	0.336214	30.431037	
0.42253	1.230244	49.036412	1.498877
0.000114	0.845038	36.252326	
0.56337	1.230244	49.036412	1.498877
0.000114	1.353647	42.370508	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.873816	-15.213855	-1.213473
-0.001099	-0.682038	-82.086002	
0.14084	-8.873816	-15.213855	-1.213473
-0.001099	-0.171788	-99.794001	
0.28169	-8.873816	-15.213855	-1.213473
-0.001099	-0.417516	-118.052916	
0.42253	-8.873816	-15.213855	-1.213473
-0.001099	-1.046873	-137.399104	
0.56337	-8.873816	-15.213855	-1.213473
-0.001099	-1.675827	-157.162222	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.410012	94.000906	1.718850
0.000218	0.957051	78.076598	
0.14084	1.410012	94.000906	1.718850
0.000218	0.236047	62.898411	
0.28169	1.410012	94.000906	1.718850
0.000218	0.365797	54.903059	
0.42253	1.410012	94.000906	1.718850
0.000218	0.920214	55.382636	
0.56337	1.410012	94.000906	1.718850
0.000218	1.474387	58.650630	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.445349	-14.562823	-1.321446
-0.001249	-0.741426	-72.705907	
0.14084	-11.445349	-14.562823	-1.321446
-0.001249	-0.185544	-85.996602	
0.28169	-11.445349	-14.562823	-1.321446
-0.001249	-0.479356	-103.332743	
0.42253	-11.445349	-14.562823	-1.321446
-0.001249	-1.201033	-137.610977	
0.56337	-11.445349	-14.562823	-1.321446
-0.001249	-1.922297	-174.506523	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.474002	111.596536	1.648872
0.003160	0.932385	142.486412	
0.14084	5.474002	111.596536	1.648872
0.003160	0.240974	135.689758	
0.28169	5.474002	111.596536	1.648872
0.003160	0.332126	134.830164	
0.42253	5.474002	111.596536	1.648872
0.003160	0.831542	147.271085	
0.56337	5.474002	111.596536	1.648872
0.003160	1.337040	167.325295	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.341241	-58.231228	-1.211086
-0.003731	-0.694070	-64.271214	
0.14084	-11.341241	-58.231228	-1.211086
-0.003731	-0.185003	-77.257901	
0.28169	-11.341241	-58.231228	-1.211086
-0.003731	-0.457864	-93.825358	
0.42253	-11.341241	-58.231228	-1.211086
-0.003731	-1.138968	-124.194016	
0.56337	-11.341241	-58.231228	-1.211086
-0.003731	-1.830695	-164.820495	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.603495	37.297980	0.618762
5.13E-06	0.346443	15.800878	
0.14084	0.603495	37.297980	0.618762
5.13E-06	0.128682	9.930663	
0.28169	0.603495	37.297980	0.618762
5.13E-06	0.128924	9.406264	
0.42253	0.603495	37.297980	0.618762
5.13E-06	0.323551	9.827976	
0.56337	0.603495	37.297980	0.618762
5.13E-06	0.517927	10.590765	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.146368	-3.435048	-0.463202
-0.000478	-0.053163	-3.076219	
0.14084	-5.146368	-3.435048	-0.463202
-0.000478	-0.064385	-17.979227	
0.28169	-5.146368	-3.435048	-0.463202
-0.000478	-0.171191	-31.118000	
0.42253	-5.146368	-3.435048	-0.463202
-0.000478	-0.430841	-45.735154	
0.56337	-5.146368	-3.435048	-0.463202
-0.000478	-0.690469	-60.758977	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.582962	121.435722	0.938588
0.004398	0.543546	143.989435	
0.14084	1.582962	121.435722	0.938588
0.004398	0.150429	104.942987	
0.28169	1.582962	121.435722	0.938588
0.004398	0.170284	73.860015	
0.42253	1.582962	121.435722	0.938588
0.004398	0.418935	61.593662	
0.56337	1.582962	121.435722	0.938588
0.004398	0.676923	60.289869	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.684724	-11.015838	-0.624029
-0.004815	-0.369822	-12.309699	
0.14084	-9.684724	-11.015838	-0.624029
-0.004815	-0.107340	-16.492242	
0.28169	-9.684724	-11.015838	-0.624029
-0.004815	-0.259134	-26.409161	
0.42253	-9.684724	-11.015838	-0.624029
-0.004815	-0.635962	-53.780109	
0.56337	-9.684724	-11.015838	-0.624029
-0.004815	-1.029145	-96.127922	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.829714	128.202865	1.534818
0.003980	0.713735	138.264311	
0.14084	1.829714	128.202865	1.534818
0.003980	0.230335	106.053882	
0.28169	1.829714	128.202865	1.534818
0.003980	0.309272	81.099356	
0.42253	1.829714	128.202865	1.534818
0.003980	0.770484	73.172408	
0.56337	1.829714	128.202865	1.534818
0.003980	1.239353	75.129802	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.353287	-17.318846	-1.126450
-0.004793	-0.649905	-53.091266	
0.14084	-12.353287	-17.318846	-1.126450
-0.004793	-0.176478	-64.341885	
0.28169	-12.353287	-17.318846	-1.126450
-0.004793	-0.425919	-81.128654	
0.42253	-12.353287	-17.318846	-1.126450
-0.004793	-1.059941	-113.495094	
0.56337	-12.353287	-17.318846	-1.126450
-0.004793	-1.698696	-159.383876	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.436122	105.191631	1.543586
0.002981	0.872989	126.196476	
0.14084	7.436122	105.191631	1.543586
0.002981	0.226319	128.184292	
0.28169	7.436122	105.191631	1.543586
0.002981	0.302429	136.332259	
0.42253	7.436122	105.191631	1.543586
0.002981	0.758579	156.926703	
0.56337	7.436122	105.191631	1.543586
0.002981	1.219565	184.114595	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.277655	-74.106925	-1.103901
-0.003145	-0.631419	-50.302546	
0.14084	-10.277655	-74.106925	-1.103901
-0.003145	-0.167547	-62.294592	
0.28169	-10.277655	-74.106925	-1.103901
-0.003145	-0.427595	-78.776708	
0.42253	-10.277655	-74.106925	-1.103901
-0.003145	-1.066334	-108.736090	
0.56337	-10.277655	-74.106925	-1.103901
-0.003145	-1.713486	-147.450030	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.752755	12.570295	0.486442
0.001070	0.274605	4.017321	
0.14084	8.752755	12.570295	0.486442
0.001070	0.070716	21.831867	
0.28169	8.752755	12.570295	0.486442
0.001070	0.088094	52.170282	
0.42253	8.752755	12.570295	0.486442
0.001070	0.224773	82.918358	
0.56337	8.752755	12.570295	0.486442
0.001070	0.361294	113.910423	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.754173	-74.584572	-0.325942
-1.42E-05	-0.184574	-22.631400	
0.14084	-0.754173	-74.584572	-0.325942
-1.42E-05	-0.047956	-17.479168	
0.28169	-0.754173	-74.584572	-0.325942
-1.42E-05	-0.133056	-21.570312	
0.42253	-0.754173	-74.584572	-0.325942
-1.42E-05	-0.336896	-26.224289	
0.56337	-0.754173	-74.584572	-0.325942
-1.42E-05	-0.540942	-31.282385	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.266148	93.168236	0.744891
0.007092	0.447129	133.118239	
0.14084	11.266148	93.168236	0.744891
0.007092	0.135497	135.140990	
0.28169	11.266148	93.168236	0.744891
0.007092	0.115470	143.127609	
0.42253	11.266148	93.168236	0.744891
0.007092	0.282099	166.304564	
0.56337	11.266148	93.168236	0.744891
0.007092	0.462032	202.313287	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.012037	-99.185240	-0.441957
-0.005926	-0.279506	-16.890124	
0.14084	-5.012037	-99.185240	-0.441957
-0.005926	-0.094611	-20.916997	
0.28169	-5.012037	-99.185240	-0.441957
-0.005926	-0.202356	-27.104822	
0.42253	-5.012037	-99.185240	-0.441957
-0.005926	-0.490880	-36.430873	
0.56337	-5.012037	-99.185240	-0.441957
-0.005926	-0.802618	-65.734519	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.322965	114.471658	1.128683
0.005444	0.652647	135.014692	
0.14084	10.322965	114.471658	1.128683
0.005444	0.180146	129.378462	
0.28169	10.322965	114.471658	1.128683
0.005444	0.194545	133.013492	
0.42253	10.322965	114.471658	1.128683
0.005444	0.484881	154.436117	
0.56337	10.322965	114.471658	1.128683
0.005444	0.784682	186.472205	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.156337	-89.193643	-0.723078
-0.004680	-0.428172	-16.119079	
0.14084	-8.156337	-89.193643	-0.723078
-0.004680	-0.124358	-19.860361	
0.28169	-8.156337	-89.193643	-0.723078
-0.004680	-0.309854	-31.260580	
0.42253	-8.156337	-89.193643	-0.723078
-0.004680	-0.765670	-56.572589	
0.56337	-8.156337	-89.193643	-0.723078
-0.004680	-1.239168	-96.513901	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.007223	114.107035	1.492957
0.004527	0.852418	117.342784	
0.14084	9.007223	114.107035	1.492957
0.004527	0.226741	114.949293	
0.28169	9.007223	114.107035	1.492957
0.004527	0.285494	120.155847	
0.42253	9.007223	114.107035	1.492957
0.004527	0.713837	140.149592	
0.56337	9.007223	114.107035	1.492957
0.004527	1.149489	168.977494	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.229679	-79.480857	-1.046430
-0.004256	-0.605494	-42.406895	
0.14084	-10.229679	-79.480857	-1.046430
-0.004256	-0.165721	-52.842752	
0.28169	-10.229679	-79.480857	-1.046430
-0.004256	-0.411840	-69.450789	
0.42253	-10.229679	-79.480857	-1.046430
-0.004256	-1.023887	-98.162920	
0.56337	-10.229679	-79.480857	-1.046430
-0.004256	-1.650089	-138.928011	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.346410	136.989099	1.227603
0.007193	0.686222	138.194685	
0.14084	12.346410	136.989099	1.227603
0.007193	0.181480	126.069930	
0.28169	12.346410	136.989099	1.227603
0.007193	0.262489	136.130729	
0.42253	12.346410	136.989099	1.227603
0.007193	0.658908	162.642613	
0.56337	12.346410	136.989099	1.227603
0.007193	1.055303	202.576369	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.169708	-103.655998	-0.945307
-0.005964	-0.530316	-71.208461	
0.14084	-13.169708	-103.655998	-0.945307
-0.005964	-0.143450	-86.675099	
0.28169	-13.169708	-103.655998	-0.945307
-0.005964	-0.346787	-102.459301	
0.42253	-13.169708	-103.655998	-0.945307
-0.005964	-0.861326	-125.951219	
0.56337	-13.169708	-103.655998	-0.945307
-0.005964	-1.376073	-165.268829	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.266148	128.202865	1.718850
0.007092	0.957051	143.989435	
0.14084	11.266148	128.202865	1.718850
0.007092	0.240974	135.689758	
0.28169	11.266148	128.202865	1.718850
0.007092	0.365797	143.127609	
0.42253	11.266148	128.202865	1.718850
0.007092	0.920214	166.304564	
0.56337	11.266148	128.202865	1.718850
0.007092	1.474387	202.313287	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.353287	-99.185240	-1.321446
-0.005926	-0.741426	-82.086002	
0.14084	-12.353287	-99.185240	-1.321446
-0.005926	-0.185544	-99.794001	
0.28169	-12.353287	-99.185240	-1.321446
-0.005926	-0.479356	-118.052916	
0.42253	-12.353287	-99.185240	-1.321446
-0.005926	-1.201033	-137.610977	
0.56337	-12.353287	-99.185240	-1.321446
-0.005926	-1.922297	-174.506523	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.346410	136.989099	1.718850
0.007193	0.957051	143.989435	
0.14084	12.346410	136.989099	1.718850
0.007193	0.240974	135.689758	
0.28169	12.346410	136.989099	1.718850
0.007193	0.365797	143.127609	
0.42253	12.346410	136.989099	1.718850
0.007193	0.920214	166.304564	
0.56337	12.346410	136.989099	1.718850
0.007193	1.474387	202.576369	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3423
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.169708	-103.655998	-1.321446
-0.005964	-0.741426	-82.086002	
0.14084	-13.169708	-103.655998	-1.321446
-0.005964	-0.185544	-99.794001	
0.28169	-13.169708	-103.655998	-1.321446
-0.005964	-0.479356	-118.052916	
0.42253	-13.169708	-103.655998	-1.321446
-0.005964	-1.201033	-137.610977	
0.56337	-13.169708	-103.655998	-1.321446
-0.005964	-1.922297	-174.506523	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.346410	136.989099	1.718850
0.007193	0.957051	143.989435	
0.14084	12.346410	136.989099	1.718850
0.007193	0.240974	135.689758	
0.28169	12.346410	136.989099	1.718850
0.007193	0.365797	143.127609	
0.42253	12.346410	136.989099	1.718850
0.007193	0.920214	166.304564	
0.56337	12.346410	136.989099	1.718850
0.007193	1.474387	202.576369	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.169708	-103.655998	-1.321446
-0.005964	-0.741426	-82.086002	
0.14084	-13.169708	-103.655998	-1.321446
-0.005964	-0.185544	-99.794001	
0.28169	-13.169708	-103.655998	-1.321446
-0.005964	-0.479356	-118.052916	
0.42253	-13.169708	-103.655998	-1.321446
-0.005964	-1.201033	-137.610977	
0.56337	-13.169708	-103.655998	-1.321446
-0.005964	-1.922297	-174.506523	

ELEM 324 ========== LENGTH = 2.977439

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	1.652591	10.239783	0.723372
1.07E-05	0.805711	2.508428	
0.57746	1.652591	10.239783	0.723372
1.07E-05	0.502358	2.101372	
0.71831	1.652591	10.239783	0.723372
1.07E-05	0.199030	3.285563	
0.85915	1.652591	10.239783	0.723372
1.07E-05	0.077957	6.361267	
1.00000	1.652591	10.239783	0.723372
1.07E-05	0.303983	10.741732	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-2.579829	-12.321263	-0.538962
-0.001087	-0.600116	-24.333355	
0.57746	-2.579829	-12.321263	-0.538962
-0.001087	-0.374096	-27.823613	
0.71831	-2.579829	-12.321263	-0.538962
-0.001087	-0.148077	-31.432991	
0.85915	-2.579829	-12.321263	-0.538962
-0.001087	-0.104352	-35.143536	
1.00000	-2.579829	-12.321263	-0.538962
-0.001087	-0.407703	-39.025748	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	2.184731	29.802061	1.216218
0.000221	1.355030	24.039647	
0.57746	2.184731	29.802061	1.216218
0.000221	0.845002	17.160832	
0.71831	2.184731	29.802061	1.216218
0.000221	0.335658	12.025345	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3424
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85915	2.184731	29.802061	1.216218
0.000221	0.128861	11.776701	
1.00000	2.184731	29.802061	1.216218
0.000221	0.500835	17.707564	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-6.955625	-22.096836	-0.887543
-0.002020	-0.988434	-38.134576	
0.57746	-6.955625	-22.096836	-0.887543
-0.002020	-0.616233	-39.937250	
0.71831	-6.955625	-22.096836	-0.887543
-0.002020	-0.244026	-45.079643	
0.85915	-6.955625	-22.096836	-0.887543
-0.002020	-0.175125	-52.170808	
1.00000	-6.955625	-22.096836	-0.887543
-0.002020	-0.685143	-60.203095	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	1.964675	80.856052	1.429355
6.55E-06	1.593934	155.973342	
0.57746	1.964675	80.856052	1.429355
6.55E-06	0.994554	127.269527	
0.71831	1.964675	80.856052	1.429355
6.55E-06	0.395144	99.566880	
0.85915	1.964675	80.856052	1.429355
6.55E-06	0.138337	75.379841	
1.00000	1.964675	80.856052	1.429355
6.55E-06	0.542011	56.129277	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-10.359874	-21.409218	-0.962350
-0.001596	-1.072291	-40.958484	
0.57746	-10.359874	-21.409218	-0.962350
-0.001596	-0.668753	-41.893049	
0.71831	-10.359874	-21.409218	-0.962350
-0.001596	-0.265135	-44.707772	
0.85915	-10.359874	-21.409218	-0.962350
-0.001596	-0.204378	-48.761813	
1.00000	-10.359874	-21.409218	-0.962350
-0.001596	-0.803718	-52.955340	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	8.194048	75.328100	1.387735
0.004112	1.533490	150.012272	
0.57746	8.194048	75.328100	1.387735
0.004112	0.951637	124.612990	
0.71831	8.194048	75.328100	1.387735
0.004112	0.382456	107.588766	
0.85915	8.194048	75.328100	1.387735
0.004112	0.144185	107.481963	
1.00000	8.194048	75.328100	1.387735
0.004112	0.519057	122.441794	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.281131	-98.382188	-0.905303
-0.004750	-1.008353	-94.307862	
0.57746	-9.281131	-98.382188	-0.905303
-0.004750	-0.628695	-65.126613	
0.71831	-9.281131	-98.382188	-0.905303
-0.004750	-0.249025	-49.427825	
0.85915	-9.281131	-98.382188	-0.905303
-0.004750	-0.213641	-41.935456	
1.00000	-9.281131	-98.382188	-0.905303
-0.004750	-0.795157	-47.746898	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	0.527095	33.286197	0.510425
9.07E-05	0.569919	57.033342	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3425
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57746	0.527095	33.286197	0.510425
9.07E-05	0.355859	43.751374	
0.71831	0.527095	33.286197	0.510425
9.07E-05	0.141825	30.804774	
0.85915	0.527095	33.286197	0.510425
9.07E-05	0.048814	18.844718	
1.00000	0.527095	33.286197	0.510425
9.07E-05	0.191579	12.624130	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-5.483854	-7.943506	-0.340318
-0.000693	-0.379320	-15.694814	
0.57746	-5.483854	-7.943506	-0.340318
-0.000693	-0.236600	-12.627000	
0.71831	-5.483854	-7.943506	-0.340318
-0.000693	-0.093851	-11.766832	
0.85915	-5.483854	-7.943506	-0.340318
-0.000693	-0.072328	-12.528430	
1.00000	-5.483854	-7.943506	-0.340318
-0.000693	-0.286332	-13.637952	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	4.541946	80.485397	0.838082
0.004877	0.917105	187.376516	
0.57746	4.541946	80.485397	0.838082
0.004877	0.565789	156.140974	
0.71831	4.541946	80.485397	0.838082
0.004877	0.231869	134.286388	
0.85915	4.541946	80.485397	0.838082
0.004877	0.084515	128.095006	
1.00000	4.541946	80.485397	0.838082
0.004877	0.270827	125.854685	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-8.290621	-67.364015	-0.459918
-0.005183	-0.512725	-40.757642	
0.57746	-8.290621	-67.364015	-0.459918
-0.005183	-0.319840	-17.860122	
0.71831	-8.290621	-67.364015	-0.459918
-0.005183	-0.126919	-13.311985	
0.85915	-8.290621	-67.364015	-0.459918
-0.005183	-0.138984	173.1383845	
1.00000	-8.290621	-67.364015	-0.459918
-0.005183	-0.489838	-13.543161	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	5.084686	82.126401	1.316422
0.004407	1.451792	168.788026	
0.57746	5.084686	82.126401	1.316422
0.004407	0.899855	140.694159	
0.71831	5.084686	82.126401	1.316422
0.004407	0.348038	121.360141	
0.85915	5.084686	82.126401	1.316422
0.004407	0.136038	117.949012	
1.00000	5.084686	82.126401	1.316422
0.004407	0.477621	119.797201	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-10.179117	-70.102574	-0.828618
-0.005499	-0.923235	-51.570650	
0.57746	-10.179117	-70.102574	-0.828618
-0.005499	-0.575735	-34.933539	
0.71831	-10.179117	-70.102574	-0.828618
-0.005499	-0.228186	-34.527535	
0.85915	-10.179117	-70.102574	-0.828618
-0.005499	-0.205950	-37.838418	
1.00000	-10.179117	-70.102574	-0.828618
-0.005499	-0.757481	-41.757340	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3426
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	9.370832	78.067939	1.295444
0.003800	1.433161	152.141298	
0.57746	9.370832	78.067939	1.295444
0.003800	0.889990	124.841197	
0.71831	9.370832	78.067939	1.295444
0.003800	0.357119	104.022304	
0.85915	9.370832	78.067939	1.295444
0.003800	0.133350	95.268264	
1.00000	9.370832	78.067939	1.295444
0.003800	0.484870	105.907206	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.415443	-104.667388	-0.847378
-0.003831	-0.943730	-115.556766	
0.57746	-9.415443	-104.667388	-0.847378
-0.003831	-0.588361	-81.479599	
0.71831	-9.415443	-104.667388	-0.847378
-0.003831	-0.232954	-58.319474	
0.85915	-9.415443	-104.667388	-0.847378
-0.003831	-0.197650	-37.768641	
1.00000	-9.415443	-104.667388	-0.847378
-0.003831	-0.740535	-40.405917	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	7.992639	18.318451	0.383100
0.001346	0.425908	23.375042	
0.57746	7.992639	18.318451	0.383100
0.001346	0.274352	15.969779	
0.71831	7.992639	18.318451	0.383100
0.001346	0.104614	8.722291	
0.85915	7.992639	18.318451	0.383100
0.001346	0.044816	3.442170	
1.00000	7.992639	18.318451	0.383100
0.001346	0.172738	3.245611	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-1.620778	-63.424315	-0.305076
-7.35E-06	-0.033925	-63.188225	
0.57746	-1.620778	-63.424315	-0.305076
-7.35E-06	-0.211089	-92.535749	
0.71831	-1.620778	-63.424315	-0.305076
-7.35E-06	-0.083152	-65.990531	
0.85915	-1.620778	-63.424315	-0.305076
-7.35E-06	-0.056024	-39.461819	
1.00000	-1.620778	-63.424315	-0.305076
-7.35E-06	-0.216721	-13.062541	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	14.681564	44.268034	0.648675
0.007533	0.699449	99.003779	
0.57746	14.681564	44.268034	0.648675
0.007533	0.427572	82.940948	
0.71831	14.681564	44.268034	0.648675
0.007533	0.176830	78.849251	
0.85915	14.681564	44.268034	0.648675
0.007533	0.082113	94.440511	
1.00000	14.681564	44.268034	0.648675
0.007533	0.243363	115.684230	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-3.088382	-149.875506	-0.404148
-0.005722	-0.449186	-162.551742	
0.57746	-3.088382	-149.875506	-0.404148
-0.005722	-0.279704	-106.051480	
0.71831	-3.088382	-149.875506	-0.404148
-0.005722	-0.110224	-69.537199	
0.85915	-3.088382	-149.875506	-0.404148
-0.005722	-0.118466	-36.830933	
1.00000	-3.088382	-149.875506	-0.404148
-0.005722	-0.389962	-13.262131	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3427
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	12.153971	82.830202	0.968601
0.005459	1.064099	181.172024	
0.57746	12.153971	82.830202	0.968601
0.005459	0.658010	148.346726	
0.71831	12.153971	82.830202	0.968601
0.005459	0.266402	123.839275	
0.85915	12.153971	82.830202	0.968601
0.005459	0.102371	113.310260	
1.00000	12.153971	82.830202	0.968601
0.005459	0.348225	108.508797	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-7.589882	-126.522938	-0.599295
-0.004103	-0.667130	-153.884729	
0.57746	-7.589882	-126.522938	-0.599295
-0.004103	-0.415800	-105.209912	
0.71831	-7.589882	-126.522938	-0.599295
-0.004103	-0.164435	-70.353626	
0.85915	-7.589882	-126.522938	-0.599295
-0.004103	-0.155871	-38.135047	
1.00000	-7.589882	-126.522938	-0.599295
-0.004103	-0.561657	-14.955892	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	10.766482	80.543534	1.255526
0.004524	1.386800	156.319226	
0.57746	10.766482	80.543534	1.255526
0.004524	0.860381	127.092113	
0.71831	10.766482	80.543534	1.255526
0.004524	0.334040	104.928037	
0.85915	10.766482	80.543534	1.255526
0.004524	0.132332	95.470430	
1.00000	10.766482	80.543534	1.255526
0.004524	0.474148	94.105336	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.349484	-112.384808	-0.825863
-0.004079	-0.919534	-138.963000	
0.57746	-9.349484	-112.384808	-0.825863
-0.004079	-0.573183	-100.098601	
0.71831	-9.349484	-112.384808	-0.825863
-0.004079	-0.226814	-74.003230	
0.85915	-9.349484	-112.384808	-0.825863
-0.004079	-0.193869	-50.949606	
1.00000	-9.349484	-112.384808	-0.825863
-0.004079	-0.720043	-35.530693	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	2.771069	12.545128	1.061662
7.90E-06	1.181953	4.009419	
0.57746	2.771069	12.545128	1.061662
7.90E-06	0.736568	3.239243	
0.71831	2.771069	12.545128	1.061662
7.90E-06	0.290775	3.820468	
0.85915	2.771069	12.545128	1.061662
7.90E-06	0.117621	8.983811	
1.00000	2.771069	12.545128	1.061662
7.90E-06	0.461794	14.875769	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-2.531700	-15.509335	-0.820382
-0.001133	-0.914416	-36.117000	
0.57746	-2.531700	-15.509335	-0.820382
-0.001133	-0.570389	-35.768660	
0.71831	-2.531700	-15.509335	-0.820382
-0.001133	-0.226362	-36.115111	
0.85915	-2.531700	-15.509335	-0.820382
-0.001133	-0.151971	-40.626720	
1.00000	-2.531700	-15.509335	-0.820382
-0.001133	-0.597965	-45.384936	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3428
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	3.257729	32.592424	1.785478
0.000142	1.989520	25.514623	
0.57746	3.257729	32.592424	1.785478
0.000142	1.240589	18.059276	
0.71831	3.257729	32.592424	1.785478
0.000142	0.491378	12.335634	
0.85915	3.257729	32.592424	1.785478
0.000142	0.196317	14.087594	
1.00000	3.257729	32.592424	1.785478
0.000142	0.766866	21.753368	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-7.270811	-26.112719	-1.360162
-0.001929	-1.515268	-53.421362	
0.57746	-7.270811	-26.112719	-1.360162
-0.001929	-0.944947	-51.952250	
0.71831	-7.270811	-26.112719	-1.360162
-0.001929	-0.374665	-51.808078	
0.85915	-7.270811	-26.112719	-1.360162
-0.001929	-0.253785	-57.949845	
1.00000	-7.270811	-26.112719	-1.360162
-0.001929	-1.004031	-67.226270	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	3.070112	76.550021	2.111497
1.38E-05	2.354502	153.347967	
0.57746	3.070112	76.550021	2.111497
1.38E-05	1.468384	127.092630	
0.71831	3.070112	76.550021	2.111497
1.38E-05	0.581769	102.106674	
0.85915	3.070112	76.550021	2.111497
1.38E-05	0.217501	83.474768	
1.00000	3.070112	76.550021	2.111497
1.38E-05	0.857330	69.533361	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.969374	-26.532819	-1.522595
-0.001607	-1.696841	-54.089191	
0.57746	-9.969374	-26.532819	-1.522595
-0.001607	-1.058440	-51.457372	
0.71831	-9.969374	-26.532819	-1.522595
-0.001607	-0.419849	-49.571041	
0.85915	-9.969374	-26.532819	-1.522595
-0.001607	-0.297371	-53.220942	
1.00000	-9.969374	-26.532819	-1.522595
-0.001607	-1.185168	-58.970350	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	8.293156	73.742888	2.035959
0.003336	2.258335	153.664537	
0.57746	8.293156	73.742888	2.035959
0.003336	1.404655	129.387009	
0.71831	8.293156	73.742888	2.035959
0.003336	0.559528	112.608837	
0.85915	8.293156	73.742888	2.035959
0.003336	0.214564	113.902658	
1.00000	8.293156	73.742888	2.035959
0.003336	0.802912	128.745007	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.049674	-90.561213	-1.401474
-0.003978	-1.557720	-98.263463	
0.57746	-9.049674	-90.561213	-1.401474
-0.003978	-0.971265	-68.844544	
0.71831	-9.049674	-90.561213	-1.401474
-0.003978	-0.384823	-51.326161	
0.85915	-9.049674	-90.561213	-1.401474
-0.003978	-0.300368	-45.899282	
1.00000	-9.049674	-90.561213	-1.401474
-0.003978	-1.155602	-53.282952	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3429
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	0.461693	30.237523	0.752792
8.06E-05	0.840825	54.072537	
0.57746	0.461693	30.237523	0.752792
8.06E-05	0.525045	42.089787	
0.71831	0.461693	30.237523	0.752792
8.06E-05	0.208797	30.434634	
0.85915	0.461693	30.237523	0.752792
8.06E-05	0.077702	19.968679	
1.00000	0.461693	30.237523	0.752792
8.06E-05	0.303913	13.186798	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-5.690152	-9.095612	-0.539096
-0.000614	-0.600423	-16.969132	
0.57746	-5.690152	-9.095612	-0.539096
-0.000614	-0.374399	-14.687492	
0.71831	-5.690152	-9.095612	-0.539096
-0.000614	-0.148126	-12.718042	
0.85915	-5.690152	-9.095612	-0.539096
-0.000614	-0.104708	-11.764634	
1.00000	-5.690152	-9.095612	-0.539096
-0.000614	-0.421239	-12.766297	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	4.175488	73.015695	1.211229
0.004261	1.334502	184.421716	
0.57746	4.175488	73.015695	1.211229
0.004261	0.827116	156.193887	
0.71831	4.175488	73.015695	1.211229
0.004261	0.332843	136.820967	
0.85915	4.175488	73.015695	1.211229
0.004261	0.128293	130.914239	
1.00000	4.175488	73.015695	1.211229
0.004261	0.447177	128.654833	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-7.899008	-60.187409	-0.758975
-0.004488	-0.840770	-40.952289	
0.57746	-7.899008	-60.187409	-0.758975
-0.004488	-0.524274	-18.893481	
0.71831	-7.899008	-60.187409	-0.758975
-0.004488	-0.207545	-13.540879	
0.85915	-7.899008	-60.187409	-0.758975
-0.004488	-0.188722	-12.083163	
1.00000	-7.899008	-60.187409	-0.758975
-0.004488	-0.697418	-12.698813	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	5.078228	77.146380	1.910662
0.003856	2.115209	166.617129	
0.57746	5.078228	77.146380	1.910662
0.003856	1.314291	141.310335	
0.71831	5.078228	77.146380	1.910662
0.003856	0.525145	124.068220	
0.85915	5.078228	77.146380	1.910662
0.003856	0.206495	122.317324	
1.00000	5.078228	77.146380	1.910662
0.003856	0.758113	125.065953	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.822855	-65.984659	-1.314110
-0.004891	-1.459610	-60.503898	
0.57746	-9.822855	-65.984659	-1.314110
-0.004891	-0.910221	-41.365100	
0.71831	-9.822855	-65.984659	-1.314110
-0.004891	-0.360426	-37.309598	
0.85915	-9.822855	-65.984659	-1.314110
-0.004891	-0.286731	-39.596191	
1.00000	-9.822855	-65.984659	-1.314110
-0.004891	-1.089353	-44.539529	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3430

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	8.694545	76.200675	1.895970
0.003209	2.105184	152.875517	
0.57746	8.694545	76.200675	1.895970
0.003209	1.310134	126.864154	
0.71831	8.694545	76.200675	1.895970
0.003209	0.521823	106.045643	
0.85915	8.694545	76.200675	1.895970
0.003209	0.195538	99.138694	
1.00000	8.694545	76.200675	1.895970
0.003209	0.733003	111.812463	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.353233	-96.688455	-1.279749
-0.003237	-1.421729	-113.870261	
0.57746	-9.353233	-96.688455	-1.279749
-0.003237	-0.886050	-80.253198	
0.71831	-9.353233	-96.688455	-1.279749
-0.003237	-0.349777	-56.636761	
0.85915	-9.353233	-96.688455	-1.279749
-0.003237	-0.277552	-39.265115	
1.00000	-9.353233	-96.688455	-1.279749
-0.003237	-1.073689	-44.040625	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	7.045621	22.615575	0.531580
0.001373	0.592797	26.966569	
0.57746	7.045621	22.615575	0.531580
0.001373	0.369754	17.739085	
0.71831	7.045621	22.615575	0.531580
0.001373	0.146713	8.616824	
0.85915	7.045621	22.615575	0.531580
0.001373	0.051308	3.907994	
1.00000	7.045621	22.615575	0.531580
0.001373	0.194023	3.942720	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-2.274078	-58.847149	-0.339652
-4.34E-06	-0.375637	-112.550914	
0.57746	-2.274078	-58.847149	-0.339652
-4.34E-06	-0.233142	-87.964026	
0.71831	-2.274078	-58.847149	-0.339652
-4.34E-06	-0.090349	-63.568840	
0.85915	-2.274078	-58.847149	-0.339652
-4.34E-06	-0.075055	-43.052813	
1.00000	-2.274078	-58.847149	-0.339652
-4.34E-06	-0.297883	-25.203794	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	13.584950	47.259592	0.895021
0.007557	0.972703	105.372126	
0.57746	13.584950	47.259592	0.895021
0.007557	0.598795	88.398503	
0.71831	13.584950	47.259592	0.895021
0.007557	0.243735	83.773975	
0.85915	13.584950	47.259592	0.895021
0.007557	0.102358	101.026694	
1.00000	13.584950	47.259592	0.895021
0.007557	0.308776	123.661300	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-3.561293	-141.332651	-0.493459
-0.005718	-0.539722	-154.910801	
0.57746	-3.561293	-141.332651	-0.493459
-0.005718	-0.335435	-98.104330	
0.71831	-3.561293	-141.332651	-0.493459
-0.005718	-0.130930	-64.829379	
0.85915	-3.561293	-141.332651	-0.493459
-0.005718	-0.154738	-39.943475	
1.00000	-3.561293	-141.332651	-0.493459
-0.005718	-0.528245	-21.176684	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3431

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	11.332532	78.063529	1.387142
0.005697	1.529694	177.214583	
0.57746	11.332532	78.063529	1.387142
0.005697	0.948850	146.911184	
0.71831	11.332532	78.063529	1.387142
0.005697	0.380774	125.558747	
0.85915	11.332532	78.063529	1.387142
0.005697	0.142799	120.780749	
1.00000	11.332532	78.063529	1.387142
0.005697	0.495602	121.422692	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-7.573978	-121.452598	-0.839621
-0.004323	-0.927850	-145.854749	
0.57746	-7.573978	-121.452598	-0.839621
-0.004323	-0.577585	-96.892369	
0.71831	-7.573978	-121.452598	-0.839621
-0.004323	-0.226782	-64.895864	
0.85915	-7.573978	-121.452598	-0.839621
-0.004323	-0.214503	-39.694077	
1.00000	-7.573978	-121.452598	-0.839621
-0.004323	-0.795482	-20.569831	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	10.148698	77.738176	1.811666
0.004732	2.006143	153.041361	
0.57746	10.148698	77.738176	1.811666
0.004732	1.247090	125.845561	
0.71831	10.148698	77.738176	1.811666
0.004732	0.488408	106.244997	
0.85915	10.148698	77.738176	1.811666
0.004732	0.191359	102.512999	
1.00000	10.148698	77.738176	1.811666
0.004732	0.694809	106.303168	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.584111	-109.982829	-1.199699
-0.004243	-1.329997	-137.916716	
0.57746	-9.584111	-109.982829	-1.199699
-0.004243	-0.828503	-97.826353	
0.71831	-9.584111	-109.982829	-1.199699
-0.004243	-0.326446	-71.953674	
0.85915	-9.584111	-109.982829	-1.199699
-0.004243	-0.271309	-53.417115	
1.00000	-9.584111	-109.982829	-1.199699
-0.004243	-1.031169	-41.661291	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	14.681564	82.830202	1.429355
0.007533	1.593934	187.749616	
0.57746	14.681564	82.830202	1.429355
0.007533	0.994554	156.140974	
0.71831	14.681564	82.830202	1.429355
0.007533	0.395144	134.286388	
0.85915	14.681564	82.830202	1.429355
0.007533	0.144185	128.095006	
1.00000	14.681564	82.830202	1.429355
0.007533	0.542011	125.854685	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-10.359874	-149.875506	-0.962350
-0.005722	-1.072291	-162.551742	
0.57746	-10.359874	-149.875506	-0.962350
-0.005722	-0.668753	-106.051480	
0.71831	-10.359874	-149.875506	-0.962350
-0.005722	-0.265135	-74.003230	
0.85915	-10.359874	-149.875506	-0.962350
-0.005722	-0.213641	-52.170808	
1.00000	-10.359874	-149.875506	-0.962350
-0.005722	-0.803718	-60.203095	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3432

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	13.584950	78.063529	2.111497
0.007557	2.354502	184.421716	
0.57746	13.584950	78.063529	2.111497
0.007557	1.468384	156.193887	
0.71831	13.584950	78.063529	2.111497
0.007557	0.581769	136.820967	
0.85915	13.584950	78.063529	2.111497
0.007557	0.217501	130.914239	
1.00000	13.584950	78.063529	2.111497
0.007557	0.857330	128.745007	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-9.969374	-141.332651	-1.522595
-0.005718	-1.696841	-154.910801	
0.57746	-9.969374	-141.332651	-1.522595
-0.005718	-1.058440	-98.104330	
0.71831	-9.969374	-141.332651	-1.522595
-0.005718	-0.419849	-71.953674	
0.85915	-9.969374	-141.332651	-1.522595
-0.005718	-0.300368	-57.949845	
1.00000	-9.969374	-141.332651	-1.522595
-0.005718	-1.185168	-67.226270	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	14.681564	82.830202	2.111497
0.007557	2.354502	187.749616	
0.57746	14.681564	82.830202	2.111497
0.007557	1.468384	156.193887	
0.71831	14.681564	82.830202	2.111497
0.007557	0.581769	136.820967	
0.85915	14.681564	82.830202	2.111497
0.007557	0.217501	130.914239	
1.00000	14.681564	82.830202	2.111497
0.007557	0.857330	128.745007	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-10.359874	-149.875506	-1.522595
-0.005722	-1.696841	-162.551742	
0.57746	-10.359874	-149.875506	-1.522595
-0.005722	-1.058440	-106.051480	
0.71831	-10.359874	-149.875506	-1.522595
-0.005722	-0.419849	-74.003230	
0.85915	-10.359874	-149.875506	-1.522595
-0.005722	-0.300368	-57.949845	
1.00000	-10.359874	-149.875506	-1.522595
-0.005722	-1.185168	-67.226270	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43662	14.681564	82.830202	2.111497
0.007557	2.354502	187.749616	
0.57746	14.681564	82.830202	2.111497
0.007557	1.468384	156.193887	
0.71831	14.681564	82.830202	2.111497
0.007557	0.581769	136.820967	
0.85915	14.681564	82.830202	2.111497
0.007557	0.217501	130.914239	
1.00000	14.681564	82.830202	2.111497
0.007557	0.857330	128.745007	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43662	-10.359874	-149.875506	-1.522595
-0.005722	-1.696841	-162.551742	
0.57746	-10.359874	-149.875506	-1.522595
-0.005722	-1.058440	-106.051480	
0.71831	-10.359874	-149.875506	-1.522595
-0.005722	-0.419849	-74.003230	
0.85915	-10.359874	-149.875506	-1.522595
-0.005722	-0.300368	-57.949845	
1.00000	-10.359874	-149.875506	-1.522595
-0.005722	-1.185168	-67.226270	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3433

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 325 ========== LENGTH = 2.977448

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.635631	10.375591	0.698446
6.92E-06	0.389123	10.749792	
0.14085	1.635631	10.375591	0.698446
6.92E-06	0.096321	15.668652	
0.28169	1.635631	10.375591	0.698446
6.92E-06	0.148614	20.719668	
0.42254	1.635631	10.375591	0.698446
6.92E-06	0.372591	25.827989	
0.56338	1.635631	10.375591	0.698446
6.92E-06	0.596568	30.975511	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.567136	-12.319264	-0.534090
-0.000770	-0.299364	-39.033713	
0.14085	-2.567136	-12.319264	-0.534090
-0.000770	-0.075373	-43.032380	
0.28169	-2.567136	-12.319264	-0.534090
-0.000770	-0.196798	-47.092408	
0.42254	-2.567136	-12.319264	-0.534090
-0.000770	-0.489673	-51.174485	
0.56338	-2.567136	-12.319264	-0.534090
-0.000770	-0.782575	-55.398028	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.068276	31.491296	1.185205
0.000187	0.662113	17.731737	
0.14085	2.068276	31.491296	1.185205
0.000187	0.165184	23.911009	
0.28169	2.068276	31.491296	1.185205
0.000187	0.244779	30.518111	
0.42254	2.068276	31.491296	1.185205
0.000187	0.613873	38.290433	
0.56338	2.068276	31.491296	1.185205
0.000187	0.982961	46.553020	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.018686	-20.259256	-0.880116
-0.001566	-0.494049	-60.217685	
0.14085	-7.018686	-20.259256	-0.880116
-0.001566	-0.125053	-70.233855	
0.28169	-7.018686	-20.259256	-0.880116
-0.001566	-0.332888	-80.633099	
0.42254	-7.018686	-20.259256	-0.880116
-0.001566	-0.829223	-91.530893	
0.56338	-7.018686	-20.259256	-0.880116
-0.001566	-1.326236	-103.727311	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.955536	80.539808	1.392021
6.23E-06	0.776434	56.121344	
0.14085	1.955536	80.539808	1.392021
6.23E-06	0.192817	46.942759	
0.28169	1.955536	80.539808	1.392021
6.23E-06	0.265996	49.285515	
0.42254	1.955536	80.539808	1.392021
6.23E-06	0.667636	54.560421	
0.56338	1.955536	80.539808	1.392021
6.23E-06	1.069263	60.687011	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.288059	-21.535731	-0.957684
-0.001738	-0.537251	-52.961483	
0.14085	-10.288059	-21.535731	-0.957684
-0.001738	-0.135529	-57.543159	
0.28169	-10.288059	-21.535731	-0.957684
-0.001738	-0.391650	-74.083023	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3434

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42254	-10.288059	-21.535731	-0.957684
-0.001738	-0.975152	-106.356532	
0.56338	-10.288059	-21.535731	-0.957684
-0.001738	-1.558914	-139.466696	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.087888	110.141321	1.357192
0.003860	0.772061	122.634203	
0.14085	6.087888	110.141321	1.357192
0.003860	0.203598	115.482507	
0.28169	6.087888	110.141321	1.357192
0.003860	0.249766	117.633409	
0.42254	6.087888	110.141321	1.357192
0.003860	0.627310	131.453440	
0.56338	6.087888	110.141321	1.357192
0.003860	1.004818	153.808623	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.992310	-61.480208	-0.900226
-0.004919	-0.517779	-47.744190	
0.14085	-10.992310	-61.480208	-0.900226
-0.004919	-0.142514	-54.035464	
0.28169	-10.992310	-61.480208	-0.900226
-0.004919	-0.379937	-70.506074	
0.42254	-10.992310	-61.480208	-0.900226
-0.004919	-0.936228	-99.549629	
0.56338	-10.992310	-61.480208	-0.900226
-0.004919	-1.505292	-138.239827	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.522418	33.150914	0.505418
9.53E-06	0.282664	12.621893	
0.14085	0.522418	33.150914	0.505418
9.53E-06	0.070747	10.776572	
0.28169	0.522418	33.150914	0.505418
9.53E-06	0.094057	11.467692	
0.42254	0.522418	33.150914	0.505418
9.53E-06	0.236257	12.799916	
0.56338	0.522418	33.150914	0.505418
9.53E-06	0.378427	14.320991	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.460616	-7.951643	-0.339007
-0.000684	-0.190278	-13.639293	
0.14085	-5.460616	-7.951643	-0.339007
-0.000684	-0.048054	-17.878370	
0.28169	-5.460616	-7.951643	-0.339007
-0.000684	-0.141373	-29.962907	
0.42254	-5.460616	-7.951643	-0.339007
-0.000684	-0.353230	-42.891431	
0.56338	-5.460616	-7.951643	-0.339007
-0.000684	-0.565156	-56.566733	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.622562	128.147952	0.828714
0.004839	0.482610	126.124511	
0.14085	1.622562	128.147952	0.828714
0.004839	0.136016	88.869038	
0.28169	1.622562	128.147952	0.828714
0.004839	0.127139	63.859094	
0.42254	1.622562	128.147952	0.828714
0.004839	0.319490	54.687697	
0.56338	1.622562	128.147952	0.828714
0.004839	0.511775	57.095818	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.654117	-16.411613	-0.458554
-0.005766	-0.274520	-13.536791	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3435

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	-10.654117	-16.411613	-0.458554
-0.005766	-0.085353	-14.310237	
0.28169	-10.654117	-16.411613	-0.458554
-0.005766	-0.230968	-28.551499	
0.42254	-10.654117	-16.411613	-0.458554
-0.005766	-0.560910	-59.243585	
0.56338	-10.654117	-16.411613	-0.458554
-0.005766	-0.908329	-103.066648	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.444023	125.284463	1.291599
0.004373	0.738831	120.049400	
0.14085	2.444023	125.284463	1.291599
0.004373	0.197902	90.459860	
0.28169	2.444023	125.284463	1.291599
0.004373	0.228753	71.797200	
0.42254	2.444023	125.284463	1.291599
0.004373	0.574243	67.391045	
0.56338	2.444023	125.284463	1.291599
0.004373	0.919659	73.452850	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.301396	-24.113134	-0.823701
-0.005818	-0.477523	-41.758214	
0.14085	-12.301396	-24.113134	-0.823701
-0.005818	-0.134864	-46.062735	
0.28169	-12.301396	-24.113134	-0.823701
-0.005818	-0.361337	-62.943904	
0.42254	-12.301396	-24.113134	-0.823701
-0.005818	-0.887053	-94.486921	
0.56338	-12.301396	-24.113134	-0.823701
-0.005818	-1.428549	-137.839929	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.679196	106.220146	1.271117
0.003555	0.722025	106.051999	
0.14085	7.679196	106.220146	1.271117
0.003555	0.189558	107.668954	
0.28169	7.679196	106.220146	1.271117
0.003555	0.233593	118.755262	
0.42254	7.679196	106.220146	1.271117
0.003555	0.587250	139.928089	
0.56338	7.679196	106.220146	1.271117
0.003555	0.940845	168.121641	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.796587	-74.841859	-0.843198
-0.004091	-0.483720	-40.398589	
0.14085	-10.796587	-74.841859	-0.843198
-0.004091	-0.131912	-47.582369	
0.28169	-10.796587	-74.841859	-0.843198
-0.004091	-0.355242	-65.226079	
0.42254	-10.796587	-74.841859	-0.843198
-0.004091	-0.877605	-95.617006	
0.56338	-10.796587	-74.841859	-0.843198
-0.004091	-1.410758	-133.928836	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.036245	18.240137	0.379485
0.001294	0.213433	3.241859	
0.14085	8.036245	18.240137	0.379485
0.001294	0.054260	15.292513	
0.28169	8.036245	18.240137	0.379485
0.001294	0.083304	41.635483	
0.42254	8.036245	18.240137	0.379485
0.001294	0.210206	68.178148	
0.56338	8.036245	18.240137	0.379485
0.001294	0.337108	94.796276	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3436

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.624505	-63.610539	-0.302608
-1.99E-05	-0.170524	-13.084792	
0.14085	-1.624505	-63.610539	-0.302608
-1.99E-05	-0.043622	-17.257934	
0.28169	-1.624505	-63.610539	-0.302608
-1.99E-05	-0.104879	-23.980528	
0.42254	-1.624505	-63.610539	-0.302608
-1.99E-05	-0.263997	-31.095504	
0.56338	-1.624505	-63.610539	-0.302608
-1.99E-05	-0.423139	-38.641831	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.187629	102.601796	0.644699
0.007315	0.385525	116.025709	
0.14085	11.187629	102.601796	0.644699
0.007315	0.116134	110.825456	
0.28169	11.187629	102.601796	0.644699
0.007315	0.110341	114.904677	
0.42254	11.187629	102.601796	0.644699
0.007315	0.278252	136.221360	
0.56338	11.187629	102.601796	0.644699
0.007315	0.446163	170.937221	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.028282	-88.058069	-0.400404
-0.005951	-0.246292	-13.241543	
0.14085	-6.028282	-88.058069	-0.400404
-0.005951	-0.082303	-21.526915	
0.28169	-6.028282	-88.058069	-0.400404
-0.005951	-0.177241	-30.008464	
0.42254	-6.028282	-88.058069	-0.400404
-0.005951	-0.426497	-42.833561	
0.56338	-6.028282	-88.058069	-0.400404
-0.005951	-0.696688	-73.906869	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.769147	122.593523	0.957686
0.005274	0.552702	108.727567	
0.14085	9.769147	122.593523	0.957686
0.005274	0.151650	103.263224	
0.28169	9.769147	122.593523	0.957686
0.005274	0.164745	111.560478	
0.42254	9.769147	122.593523	0.957686
0.005274	0.415120	133.201880	
0.56338	9.769147	122.593523	0.957686
0.005274	0.665436	164.579798	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.566104	-84.276986	-0.596927
-0.004683	-0.350178	-14.934779	
0.14085	-9.566104	-84.276986	-0.596927
-0.004683	-0.102434	-20.132188	
0.28169	-9.566104	-84.276986	-0.596927
-0.004683	-0.265968	-38.322791	
0.42254	-9.566104	-84.276986	-0.596927
-0.004683	-0.652960	-70.870532	
0.56338	-9.566104	-84.276986	-0.596927
-0.004683	-1.054489	-114.044006	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.792551	113.372904	1.236900
0.004370	0.705548	94.291923	
0.14085	8.792551	113.372904	1.236900
0.004370	0.187428	92.701464	
0.28169	8.792551	113.372904	1.236900
0.004370	0.227322	102.701623	
0.42254	8.792551	113.372904	1.236900
0.004370	0.571717	123.836282	
0.56338	8.792551	113.372904	1.236900
0.004370	0.916072	153.033471	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3437
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.972743	-77.495289	-0.821152
-0.004403	-0.473184	-35.519361	
0.14085	-10.972743	-77.495289	-0.821152
-0.004403	-0.130976	-43.848550	
0.28169	-10.972743	-77.495289	-0.821152
-0.004403	-0.344730	-62.587222	
0.42254	-10.972743	-77.495289	-0.821152
-0.004403	-0.851292	-93.824738	
0.56338	-10.972743	-77.495289	-0.821152
-0.004403	-1.369901	-134.242304	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.747200	12.687002	1.026469
4.03E-06	0.571311	14.887945	
0.14085	2.747200	12.687002	1.026469
4.03E-06	0.140107	21.130353	
0.28169	2.747200	12.687002	1.026469
4.03E-06	0.228994	27.458114	
0.42254	2.747200	12.687002	1.026469
4.03E-06	0.576250	33.812905	
0.56338	2.747200	12.687002	1.026469
4.03E-06	0.923587	40.193031	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.513172	-15.550206	-0.828296
-0.000799	-0.465936	-45.401324	
0.14085	-2.513172	-15.550206	-0.828296
-0.000799	-0.118234	-50.334564	
0.28169	-2.513172	-15.550206	-0.828296
-0.000799	-0.287976	-55.308546	
0.42254	-2.513172	-15.550206	-0.828296
-0.000799	-0.719028	-60.316580	
0.56338	-2.513172	-15.550206	-0.828296
-0.000799	-1.149689	-65.376671	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.166397	33.754026	1.748760
0.000112	0.976218	21.774463	
0.14085	3.166397	33.754026	1.748760
0.000112	0.241322	30.321021	
0.28169	3.166397	33.754026	1.748760
0.000112	0.377698	39.515770	
0.42254	3.166397	33.754026	1.748760
0.000112	0.945886	48.256794	
0.56338	3.166397	33.754026	1.748760
0.000112	1.520956	59.406270	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.302187	-25.118692	-1.363272
-0.001530	-0.766302	-67.248334	
0.14085	-7.302187	-25.118692	-1.363272
-0.001530	-0.194368	-78.035326	
0.28169	-7.302187	-25.118692	-1.363272
-0.001530	-0.488616	-89.571995	
0.42254	-7.302187	-25.118692	-1.363272
-0.001530	-1.222422	-102.208195	
0.56338	-7.302187	-25.118692	-1.363272
-0.001530	-1.955962	-115.676089	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.051424	76.410114	2.073758
8.06E-06	1.156556	69.534857	
0.14085	3.051424	76.410114	2.073758
8.06E-06	0.284646	61.063491	
0.28169	3.051424	76.410114	2.073758
8.06E-06	0.423202	50.416703	
0.42254	3.051424	76.410114	2.073758
8.06E-06	1.063858	67.617220	
0.56338	3.051424	76.410114	2.073758
8.06E-06	1.704412	76.479831	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3438
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.911404	-26.723106	-1.527820
-0.001678	-0.858449	-58.983328	
0.14085	-9.911404	-26.723106	-1.527820
-0.001678	-0.216228	-65.510206	
0.28169	-9.911404	-26.723106	-1.527820
-0.001678	-0.579123	-80.863197	
0.42254	-9.911404	-26.723106	-1.527820
-0.001678	-1.449916	-109.932924	
0.56338	-9.911404	-26.723106	-1.527820
-0.001678	-2.320208	-140.537536	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.621277	99.954282	2.006136
0.003028	1.132040	128.758918	
0.14085	6.621277	99.954282	2.006136
0.003028	0.289488	125.155000	
0.28169	6.621277	99.954282	2.006136
0.003028	0.387213	128.152380	
0.42254	6.621277	99.954282	2.006136
0.003028	0.973938	144.422756	
0.56338	6.621277	99.954282	2.006136
0.003028	1.560584	167.509513	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.462090	-63.307671	-1.403005
-0.004083	-0.801538	-53.284303	
0.14085	-10.462090	-63.307671	-1.403005
-0.004083	-0.212121	-61.596609	
0.28169	-10.462090	-63.307671	-1.403005
-0.004083	-0.558272	-77.459935	
0.42254	-10.462090	-63.307671	-1.403005
-0.004083	-1.391338	-104.512721	
0.56338	-10.462090	-63.307671	-1.403005
-0.004083	-2.232117	-142.757098	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.459238	30.274189	0.754442
5.46E-06	0.422323	13.187725	
0.14085	0.459238	30.274189	0.754442
5.46E-06	0.105124	11.519651	
0.28169	0.459238	30.274189	0.754442
5.46E-06	0.148642	13.177259	
0.42254	0.459238	30.274189	0.754442
5.46E-06	0.373177	15.680159	
0.56338	0.459238	30.274189	0.754442
5.46E-06	0.597437	18.529475	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.682565	-9.151218	-0.534945
-0.000641	-0.299968	-12.769980	
0.14085	-5.682565	-9.151218	-0.534945
-0.000641	-0.075458	-18.143740	
0.28169	-5.682565	-9.151218	-0.534945
-0.000641	-0.209129	-28.486629	
0.42254	-5.682565	-9.151218	-0.534945
-0.000641	-0.605025	-40.116395	
0.56338	-5.682565	-9.151218	-0.534945
-0.000641	-0.842508	-52.222487	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.606845	112.948232	1.207631
0.004125	0.693883	128.680417	
0.14085	1.606845	112.948232	1.207631
0.004125	0.186829	94.333445	
0.28169	1.606845	112.948232	1.207631
0.004125	0.208495	68.894316	
0.42254	1.606845	112.948232	1.207631
0.004125	0.524662	62.148111	
0.56338	1.606845	112.948232	1.207631
0.004125	0.840222	65.190782	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3439
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.078006	-18.117794	-0.758998
-0.004981	-0.446117	-12.692977	
0.14085	-10.078006	-18.117794	-0.758998
-0.004981	-0.127214	-14.106515	
0.28169	-10.078006	-18.117794	-0.758998
-0.004981	-0.333130	-26.354103	
0.42254	-10.078006	-18.117794	-0.758998
-0.004981	-0.826437	-52.451120	
0.56338	-10.078006	-18.117794	-0.758998
-0.004981	-1.331788	-94.999498	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.740491	113.385464	1.887601
0.003733	1.071179	125.098342	
0.14085	2.740491	113.385464	1.887601
0.003733	0.278149	98.853107	
0.28169	2.740491	113.385464	1.887601
0.003733	0.362711	80.736081	
0.42254	2.740491	113.385464	1.887601
0.003733	0.912408	72.463859	
0.56338	2.740491	113.385464	1.887601
0.003733	1.461270	86.982751	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.776985	-27.972405	-1.315008
-0.005135	-0.756341	-44.545058	
0.14085	-11.776985	-27.972405	-1.315008
-0.005135	-0.204463	-50.288637	
0.28169	-11.776985	-27.972405	-1.315008
-0.005135	-0.523848	-66.189272	
0.42254	-11.776985	-27.972405	-1.315008
-0.005135	-1.303784	-94.377068	
0.56338	-11.776985	-27.972405	-1.315008
-0.005135	-2.094523	-137.378293	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.323732	97.900445	1.881578
0.002928	1.061305	111.812270	
0.14085	7.323732	97.900445	1.881578
0.002928	0.271268	114.902047	
0.28169	7.323732	97.900445	1.881578
0.002928	0.351024	124.940728	
0.42254	7.323732	97.900445	1.881578
0.002928	0.883298	147.078521	
0.56338	7.323732	97.900445	1.881578
0.002928	1.414761	174.907283	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.525688	-74.128556	-1.271122
-0.003432	-0.724859	-44.034737	
0.14085	-10.525688	-74.128556	-1.271122
-0.003432	-0.190596	-53.290237	
0.28169	-10.525688	-74.128556	-1.271122
-0.003432	-0.522339	-71.065371	
0.42254	-10.525688	-74.128556	-1.271122
-0.003432	-1.304765	-99.566491	
0.56338	-10.525688	-74.128556	-1.271122
-0.003432	-2.093539	-137.365459	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.082158	22.481255	0.542944
0.001265	0.304014	3.936888	
0.14085	7.082158	22.481255	0.542944
0.001265	0.077458	15.178376	
0.28169	7.082158	22.481255	0.542944
0.001265	0.088604	38.764571	
0.42254	7.082158	22.481255	0.542944
0.001265	0.222557	62.846901	
0.56338	7.082158	22.481255	0.542944
0.001265	0.356099	87.167069	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3440
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.283793	-58.871713	-0.318691
-1.46E-05	-0.178327	-25.213553	
0.14085	-2.283793	-58.871713	-0.318691
-1.46E-05	-0.044280	-25.186545	
0.28169	-2.283793	-58.871713	-0.318691
-1.46E-05	-0.149387	-33.171501	
0.42254	-2.283793	-58.871713	-0.318691
-1.46E-05	-0.377318	-41.902828	
0.56338	-2.283793	-58.871713	-0.318691
-1.46E-05	-0.604619	-50.949625	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.983883	103.983297	0.904770
0.007235	0.533309	123.702452	
0.14085	9.983883	103.983297	0.904770
0.007235	0.155849	116.803570	
0.28169	9.983883	103.983297	0.904770
0.007235	0.129439	117.280035	
0.42254	9.983883	103.983297	0.904770
0.007235	0.325056	134.358137	
0.56338	9.983883	103.983297	0.904770
0.007235	0.520537	164.354886	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.706991	-81.583031	-0.474898
-0.005928	-0.294659	-21.163587	
0.14085	-6.706991	-81.583031	-0.474898
-0.005928	-0.095986	-28.478901	
0.28169	-6.706991	-81.583031	-0.474898
-0.005928	-0.246752	-38.840015	
0.42254	-6.706991	-81.583031	-0.474898
-0.005928	-0.606854	-53.396650	
0.56338	-6.706991	-81.583031	-0.474898
-0.005928	-0.983523	-90.924151	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.750018	118.885652	1.394843
0.005422	0.799167	121.443767	
0.14085	8.750018	118.885652	1.394843
0.005422	0.215131	110.964718	
0.28169	8.750018	118.885652	1.394843
0.005422	0.225843	112.538098	
0.42254	8.750018	118.885652	1.394843
0.005422	0.568190	131.400804	
0.56338	8.750018	118.885652	1.394843
0.005422	0.909838	159.929179	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.823329	-78.538627	-0.821249
-0.004778	-0.481275	-20.556820	
0.14085	-9.823329	-78.538627	-0.821249
-0.004778	-0.135993	-25.942535	
0.28169	-9.823329	-78.538627	-0.821249
-0.004778	-0.383550	-44.327692	
0.42254	-9.823329	-78.538627	-0.821249
-0.004778	-0.955580	-72.950067	
0.56338	-9.823329	-78.538627	-0.821249
-0.004778	-1.538698	-117.973499	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.998509	111.631026	1.809711
0.004503	1.027668	106.328527	
0.14085	7.998509	111.631026	1.809711
0.004503	0.276850	91.233370	
0.28169	7.998509	111.631026	1.809711
0.004503	0.326424	106.246853	
0.42254	7.998509	111.631026	1.809711
0.004503	0.820397	125.668175	
0.56338	7.998509	111.631026	1.809711
0.004503	1.313664	153.132084	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3441
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.438383	-74.425447	-1.181851
-0.004495	-0.680042	-41.659370	
0.14085	-11.438383	-74.425447	-1.181851
-0.004495	-0.183664	-50.645130	
0.28169	-11.438383	-74.425447	-1.181851
-0.004495	-0.500132	-70.335973	
0.42254	-11.438383	-74.425447	-1.181851
-0.004495	-1.248486	-99.159181	
0.56338	-11.438383	-74.425447	-1.181851
-0.004495	-2.006019	-141.777501	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.187629	128.147952	1.392021
0.007315	0.776434	126.124511	
0.14085	11.187629	128.147952	1.392021
0.007315	0.203598	115.482507	
0.28169	11.187629	128.147952	1.392021
0.007315	0.265996	118.755262	
0.42254	11.187629	128.147952	1.392021
0.007315	0.667636	139.928089	
0.56338	11.187629	128.147952	1.392021
0.007315	1.069263	170.937221	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.301396	-88.058069	-0.957684
-0.005951	-0.537251	-60.217685	
0.14085	-12.301396	-88.058069	-0.957684
-0.005951	-0.142514	-70.233855	
0.28169	-12.301396	-88.058069	-0.957684
-0.005951	-0.391650	-80.633099	
0.42254	-12.301396	-88.058069	-0.957684
-0.005951	-0.975152	-106.356532	
0.56338	-12.301396	-88.058069	-0.957684
-0.005951	-1.558914	-139.466696	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.983883	118.885652	2.073758
0.007235	1.156556	128.758918	
0.14085	9.983883	118.885652	2.073758
0.007235	0.289488	125.155000	
0.28169	9.983883	118.885652	2.073758
0.007235	0.423202	128.152380	
0.42254	9.983883	118.885652	2.073758
0.007235	1.063858	147.078521	
0.56338	9.983883	118.885652	2.073758
0.007235	1.704412	174.907283	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.776985	-81.583031	-1.527820
-0.005928	-0.858449	-67.248334	
0.14085	-11.776985	-81.583031	-1.527820
-0.005928	-0.216228	-78.035326	
0.28169	-11.776985	-81.583031	-1.527820
-0.005928	-0.579123	-89.571995	
0.42254	-11.776985	-81.583031	-1.527820
-0.005928	-1.449916	-109.932924	
0.56338	-11.776985	-81.583031	-1.527820
-0.005928	-2.320208	-142.757098	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.187629	128.147952	2.073758
0.007315	1.156556	128.758918	
0.14085	11.187629	128.147952	2.073758
0.007315	0.289488	125.155000	
0.28169	11.187629	128.147952	2.073758
0.007315	0.423202	128.152380	
0.42254	11.187629	128.147952	2.073758
0.007315	1.063858	147.078521	
0.56338	11.187629	128.147952	2.073758
0.007315	1.704412	174.907283	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3442
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.301396	-88.058069	-1.527820
-0.005951	-0.858449	-67.248334	
0.14085	-12.301396	-88.058069	-1.527820
-0.005951	-0.216228	-78.035326	
0.28169	-12.301396	-88.058069	-1.527820
-0.005951	-0.579123	-89.571995	
0.42254	-12.301396	-88.058069	-1.527820
-0.005951	-1.449916	-109.932924	
0.56338	-12.301396	-88.058069	-1.527820
-0.005951	-2.320208	-142.757098	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.187629	128.147952	2.073758
0.007315	1.156556	128.758918	
0.14085	11.187629	128.147952	2.073758
0.007315	0.289488	125.155000	
0.28169	11.187629	128.147952	2.073758
0.007315	0.423202	128.152380	
0.42254	11.187629	128.147952	2.073758
0.007315	1.063858	147.078521	
0.56338	11.187629	128.147952	2.073758
0.007315	1.704412	174.907283	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.301396	-88.058069	-1.527820
-0.005951	-0.858449	-67.248334	
0.14085	-12.301396	-88.058069	-1.527820
-0.005951	-0.216228	-78.035326	
0.28169	-12.301396	-88.058069	-1.527820
-0.005951	-0.579123	-89.571995	
0.42254	-12.301396	-88.058069	-1.527820
-0.005951	-1.449916	-109.932924	
0.56338	-12.301396	-88.058069	-1.527820
-0.005951	-2.320208	-142.757098	

ELEM 326 ========== LENGTH = 2.976624

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43674	2.707486	2.553940	0.715582
9.07E-06	0.798766	3.054694	
0.57755	2.707486	2.553940	0.715582
9.07E-06	0.498831	2.387510	
0.71837	2.707486	2.553940	0.715582
9.07E-06	0.198908	3.689276	
0.85918	2.707486	2.553940	0.715582
9.07E-06	0.075577	6.332945	
1.00000	2.707486	2.553940	0.715582
9.07E-06	0.297104	11.297375	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43674	-1.019330	-17.339228	-0.528492
-0.001161	-0.588992	-22.254075	
0.57755	-1.019330	-17.339228	-0.528492
-0.001161	-0.367472	-22.746716	
0.71837	-1.019330	-17.339228	-0.528492
-0.001161	-0.145953	-23.308238	
0.85918	-1.019330	-17.339228	-0.528492
-0.001161	-0.100976	-23.948097	
1.00000	-1.019330	-17.339228	-0.528492
-0.001161	-0.400997	-24.651152	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43674	3.748137	11.115784	1.216263
0.000173	1.357281	11.949120	
0.57755	3.748137	11.115784	1.216263
0.000173	0.847609	8.274989	
0.71837	3.748137	11.115784	1.216263
0.000173	0.338302	6.255668	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3443
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.85918	3.748137	11.115784	1.216263
0.000173	0.124786	9.069455	
1.00000	3.748137	11.115784	1.216263
0.000173	0.489394	17.761743	

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -4.482422 -34.196426 -0.870437
-0.002147 -0.970401 -47.718101
0.57755 -4.482422 -34.196426 -0.870437
-0.002147 -0.605551 -44.303936
0.71837 -4.482422 -34.196426 -0.870437
-0.002147 -0.240695 -43.694318
0.85918 -4.482422 -34.196426 -0.870437
-0.002147 -0.172032 -44.155763
1.00000 -4.482422 -34.196426 -0.870437
-0.002147 -0.681935 -45.580005

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 3.896867 54.103481 1.449793
6.03E-06 1.619275 115.071036
0.57755 3.896867 54.103481 1.449793
6.03E-06 1.011623 93.031097
0.71837 3.896867 54.103481 1.449793
6.03E-06 0.403962 71.999729
0.85918 3.896867 54.103481 1.449793
6.03E-06 0.133595 55.362175
1.00000 3.896867 54.103481 1.449793
6.03E-06 0.528450 44.577650

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -7.374123 -40.031683 -0.941744
-0.001748 -1.050512 -61.116260
0.57755 -7.374123 -40.031683 -0.941744
-0.001748 -0.655807 -53.977483
0.71837 -7.374123 -40.031683 -0.941744
-0.001748 -0.261026 -48.271158
0.85918 -7.374123 -40.031683 -0.941744
-0.001748 -0.203767 -42.753929
1.00000 -7.374123 -40.031683 -0.941744
-0.001748 -0.811514 -37.697107

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 9.118931 55.616690 1.407891
0.003814 1.558013 118.745292
0.57755 9.118931 55.616690 1.407891
0.003814 0.970429 96.934957
0.71837 9.118931 55.616690 1.407891
0.003814 0.389897 81.745536
0.85918 9.118931 55.616690 1.407891
0.003814 0.142332 85.449050
1.00000 9.118931 55.616690 1.407891
0.003814 0.516745 104.772019

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -7.160724 -108.001172 -0.906643
-0.004789 -1.010889 -109.178555
0.57755 -7.160724 -108.001172 -0.906643
-0.004789 -0.630380 -73.642370
0.71837 -7.160724 -108.001172 -0.906643
-0.004789 -0.250800 -51.089565
0.85918 -7.160724 -108.001172 -0.906643
-0.004789 -0.213127 -36.091187
1.00000 -7.160724 -108.001172 -0.906643
-0.004789 -0.802558 -35.053176

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 0.861468 20.377154 0.524801
1.23E-05 0.586418 32.641417
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3444

FRAME ELEMENT INTERNAL FORCES

REL DIST P V2 V3
T M2 M3
0.57755 0.861468 20.377154 0.524801
1.23E-05 0.366436 24.653038
0.71837 0.861468 20.377154 0.524801
1.23E-05 0.146493 17.439572
0.85918 0.861468 20.377154 0.524801
1.23E-05 0.046970 12.104137
1.00000 0.861468 20.377154 0.524801
1.23E-05 0.186440 9.656616

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -4.463910 -17.135821 -0.332574
-0.000754 -0.371192 -31.683678
0.57755 -4.463910 -17.135821 -0.332574
-0.000754 -0.231787 -25.649626
0.71837 -4.463910 -17.135821 -0.332574
-0.000754 -0.092354 -21.455126
0.85918 -4.463910 -17.135821 -0.332574
-0.000754 -0.073509 -17.741128
1.00000 -4.463910 -17.135821 -0.332574
-0.000754 -0.293471 -14.946022

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 5.375538 60.824707 0.874732
0.004461 0.958455 138.887009
0.57755 5.375538 60.824707 0.874732
0.004461 0.595281 114.545398
0.71837 5.375538 60.824707 0.874732
0.004461 0.241763 98.110620
0.85918 5.375538 60.824707 0.874732
0.004461 0.089292 101.700069
1.00000 5.375538 60.824707 0.874732
0.004461 0.277228 106.635865

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -6.869069 -81.637947 -0.476131
-0.005133 -0.531382 -69.977298
0.57755 -6.869069 -81.637947 -0.476131
-0.005133 -0.331793 -39.085097
0.71837 -6.869069 -81.637947 -0.476131
-0.005133 -0.132166 -25.980405
0.85918 -6.869069 -81.637947 -0.476131
-0.005133 -0.142647 -18.915816
1.00000 -6.869069 -81.637947 -0.476131
-0.005133 -0.508242 -13.036296

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 6.489714 56.782053 1.347395
0.004031 1.487860 126.482975
0.57755 6.489714 56.782053 1.347395
0.004031 0.926223 104.279677
0.71837 6.489714 56.782053 1.347395
0.004031 0.373311 89.137020
0.85918 6.489714 56.782053 1.347395
0.004031 0.134848 91.638806
1.00000 6.489714 56.782053 1.347395
0.004031 0.477948 102.785109

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -7.809761 -87.695292 -0.834981
-0.005518 -0.931319 -80.632005
0.57755 -7.809761 -87.695292 -0.834981
-0.005518 -0.581319 -53.598019
0.71837 -7.809761 -87.695292 -0.834981
-0.005518 -0.231269 -42.322402
0.85918 -7.809761 -87.695292 -0.834981
-0.005518 -0.207448 -36.500097
1.00000 -7.809761 -87.695292 -0.834981
-0.005518 -0.771333 -31.756394
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3445

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 9.203304 63.296922 1.317308
0.003562 1.459257 127.065796
0.57755 9.203304 63.296922 1.317308
0.003562 0.909164 102.117568
0.71837 9.203304 63.296922 1.317308
0.003562 0.364783 82.184516
0.85918 9.203304 63.296922 1.317308
0.003562 0.131206 75.737638
1.00000 9.203304 63.296922 1.317308
0.003562 0.481324 88.785749

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -8.027694 -107.549456 -0.846013
-0.003871 -0.943249 -122.693258
0.57755 -8.027694 -107.549456 -0.846013
-0.003871 -0.588626 -85.349073
0.71837 -8.027694 -107.549456 -0.846013
-0.003871 -0.233964 -58.552067
0.85918 -8.027694 -107.549456 -0.846013
-0.003871 -0.197857 -35.344473
1.00000 -8.027694 -107.549456 -0.846013
-0.003871 -0.749446 -32.533064

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 5.438833 31.663131 0.378557
0.001395 0.421481 43.949186
0.57755 5.438833 31.663131 0.378557
0.001395 0.262811 30.802109
0.71837 5.438833 31.663131 0.378557
0.001395 0.104140 17.813629
0.85918 5.438833 31.663131 0.378557
0.001395 0.043632 5.555906
1.00000 5.438833 31.663131 0.378557
0.001395 0.169791 2.949165

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -3.152979 -41.254929 -0.300991
-7.19E-06 -0.334873 -81.500782
0.57755 -3.152979 -41.254929 -0.300991
-7.19E-06 -0.208710 -64.258735
0.71837 -3.152979 -41.254929 -0.300991
-7.19E-06 -0.082547 -47.042900
0.85918 -3.152979 -41.254929 -0.300991
-7.19E-06 -0.054501 -29.841850
1.00000 -3.152979 -41.254929 -0.300991
-7.19E-06 -0.213217 -13.274487

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 11.914652 55.436104 0.658347
0.007068 0.710655 109.901965
0.57755 11.914652 55.436104 0.658347
0.007068 0.438919 87.865473
0.71837 11.914652 55.436104 0.658347
0.007068 0.178884 75.172338
0.85918 11.914652 55.436104 0.658347
0.007068 0.086407 85.041577
1.00000 11.914652 55.436104 0.658347
0.007068 0.262874 103.794258

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -4.561630 -127.863487 -0.443571
-0.005535 -0.493314 -133.559240
0.57755 -4.561630 -127.863487 -0.443571
-0.005535 -0.307389 -82.825786
0.71837 -4.561630 -127.863487 -0.443571
-0.005535 -0.121447 -51.916279
0.85918 -4.561630 -127.863487 -0.443571
-0.005535 -0.118432 -28.184395
1.00000 -4.561630 -127.863487 -0.443571
-0.005535 -0.393195 -14.477884
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3446

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 10.255734 81.430100 0.993575
0.005158 1.092920 162.173850
0.57755 10.255734 81.430100 0.993575
0.005158 0.679346 129.022060
0.71837 10.255734 81.430100 0.993575
0.005158 0.273788 102.395573
0.85918 10.255734 81.430100 0.993575
0.005158 0.132088 92.239798
1.00000 10.255734 81.430100 0.993575
0.005158 0.351049 91.637217

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -7.987442 -115.229350 -0.609186
-0.004056 -0.678941 -140.390951
0.57755 -7.987442 -115.229350 -0.609186
-0.004056 -0.423586 -94.138126
0.71837 -7.987442 -115.229350 -0.609186
-0.004056 -0.168194 -61.567653
0.85918 -7.987442 -115.229350 -0.609186
-0.004056 -0.157399 -33.996686
1.00000 -7.987442 -115.229350 -0.609186
-0.004056 -0.573068 -15.842699

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 9.651015 71.714285 1.278576
0.004276 1.413954 137.429436
0.57755 9.651015 71.714285 1.278576
0.004276 0.880433 108.810168
0.71837 9.651015 71.714285 1.278576
0.004276 0.353541 85.927703
0.85918 9.651015 71.714285 1.278576
0.004276 0.130467 77.234908
1.00000 9.651015 71.714285 1.278576
0.004276 0.471939 80.277617

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -8.866698 -107.927940 -0.827171
-0.004087 -0.922052 -134.371226
0.57755 -8.866698 -107.927940 -0.827171
-0.004087 -0.575320 -95.371410
0.71837 -8.866698 -107.927940 -0.827171
-0.004087 -0.228569 -68.752463
0.85918 -8.866698 -107.927940 -0.827171
-0.004087 -0.194502 -46.309880
1.00000 -8.866698 -107.927940 -0.827171
-0.004087 -0.729816 -31.791214

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 4.832689 5.405829 1.104161
6.38E-06 1.231748 6.370474
0.57755 4.832289 5.405829 1.104161
6.38E-06 0.768778 5.263232
0.71837 4.832289 5.405829 1.104161
6.38E-06 0.305383 4.682801
0.85918 4.832289 5.405829 1.104161
6.38E-06 0.126933 7.817872
1.00000 4.832289 5.405829 1.104161
6.38E-06 0.502551 15.146392

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -1.232597 -24.053152 -0.895798
-0.001248 -0.999482 -43.025579
0.57755 -1.232597 -24.053152 -0.895798
-0.001248 -0.624040 -36.396233
0.71837 -1.232597 -24.053152 -0.895798
-0.001248 -0.248423 -30.148542
0.85918 -1.232597 -24.053152 -0.895798
-0.001248 -0.154681 -27.315750
1.00000 -1.232597 -24.053152 -0.895798
-0.001248 -0.618763 -27.659395
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3447

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 6.110295 14.751249 1.898520
0.000113 2.117282 15.556465
0.57755 6.110295 14.751249 1.898520
0.000113 1.321352 10.603620
0.71837 6.110295 14.751249 1.898520
0.000113 0.525259 7.328556
0.85918 6.110295 14.751249 1.898520
0.000113 0.208172 10.068894
1.00000 6.110295 14.751249 1.898520
0.000113 0.824397 21.688835

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -4.361817 -45.624174 -1.470297
-0.002156 -1.641281 -83.567567
0.57755 -4.361817 -45.624174 -1.470297
-0.002156 -1.025125 -69.996140
0.71837 -4.361817 -45.624174 -1.470297
-0.002156 -0.408793 -57.413170
0.85918 -4.361817 -45.624174 -1.470297
-0.002156 -0.408793 -49.431200
1.00000 -4.361817 -45.624174 -1.470297
-0.002156 -1.064582 -48.215776

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 6.184480 50.003750 2.278805
1.41E-05 2.543188 109.060093
0.57755 6.184480 50.003750 2.278805
1.41E-05 1.587579 90.177964
0.71837 6.184480 50.003750 2.278805
1.41E-05 0.631434 72.393440
0.85918 6.184480 50.003750 2.278805
1.41E-05 0.234745 59.492347
1.00000 6.184480 50.003750 2.278805
1.41E-05 0.938506 55.332583

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -6.642527 -52.977007 -1.675823
-0.001830 -1.871453 -91.656399
0.57755 -6.642527 -52.977007 -1.675823
-0.001830 -1.169168 -75.024166
0.71837 -6.642527 -52.977007 -1.675823
-0.001830 -0.466661 -58.838512
0.85918 -6.642527 -52.977007 -1.675823
-0.001830 -0.317647 -46.385983
1.00000 -6.642527 -52.977007 -1.675823
-0.001830 -1.275752 -40.320685

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 10.179439 55.885419 2.213373
0.003274 2.458443 121.369175
0.57755 10.179439 55.885419 2.213373
0.003274 1.744849 100.837467
0.71837 10.179439 55.885419 2.213373
0.003274 0.611810 86.473649
0.85918 10.179439 55.885419 2.213373
0.003274 0.237196 88.352279
1.00000 10.179439 55.885419 2.213373
0.003274 0.901969 108.031948

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -7.132056 -107.238835 -1.586603
-0.004072 -1.752649 -127.699622
0.57755 -7.132056 -107.238835 -1.586603
-0.004072 -1.103481 -88.312874
0.71837 -7.132056 -107.238835 -1.586603
-0.004072 -0.439605 -58.621587
0.85918 -7.132056 -107.238835 -1.586603
-0.004072 -0.321270 -39.206730
1.00000 -7.132056 -107.238835 -1.586603
-0.004072 -1.250887 -37.456611
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3448

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 0.983427 17.477932 0.837072
7.56E-06 0.934021 28.570299
0.57755 0.983427 17.477932 0.837072
7.56E-06 0.583037 22.118067
0.71837 0.983427 17.477932 0.837072
7.56E-06 0.231765 16.025138
0.85918 0.983427 17.477932 0.837072
7.56E-06 0.080914 11.056827
1.00000 0.983427 17.477932 0.837072
7.56E-06 0.324847 10.438056

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -3.843401 -22.029601 -0.581209
-0.000686 -0.649649 -39.804296
0.57755 -3.843401 -22.029601 -0.581209
-0.000686 -0.406157 -32.173245
0.71837 -3.843401 -22.029601 -0.581209
-0.000686 -0.162358 -24.815437
0.85918 -3.843401 -22.029601 -0.581209
-0.000686 -0.116909 -17.986110
1.00000 -3.843401 -22.029601 -0.581209
-0.000686 -0.468802 -14.419986

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 5.089245 52.531434 1.357245
0.004124 1.496601 128.311945
0.57755 5.089245 52.531434 1.357245
0.004124 0.932396 108.870066
0.71837 5.089245 52.531434 1.357245
0.004124 0.373615 96.919647
0.85918 5.089245 52.531434 1.357245
0.004124 0.141666 99.985506
1.00000 5.089245 52.531434 1.357245
0.004124 0.508973 107.438833

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -5.940779 -79.288839 -0.876991
-0.004433 -0.976338 -74.869252
0.57755 -5.940779 -79.288839 -0.876991
-0.004433 -0.609544 -44.648375
0.71837 -5.940779 -79.288839 -0.876991
-0.004433 -0.243363 -28.441410
0.85918 -5.940779 -79.288839 -0.876991
-0.004433 -0.208238 -18.649763
1.00000 -5.940779 -79.288839 -0.876991
-0.004433 -0.778092 -11.939395

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 7.410486 51.161715 2.088125
0.003733 2.313450 119.016496
0.57755 7.410486 51.161715 2.088125
0.003733 1.442426 100.555156
0.71837 7.410486 51.161715 2.088125
0.003733 0.575948 88.821900
0.85918 7.410486 51.161715 2.088125
0.003733 0.223601 91.802648
1.00000 7.410486 51.161715 2.088125
0.003733 0.839237 105.611477

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -6.958496 -91.093130 -1.469119
-0.004947 -1.637510 -103.806226
0.57755 -6.958496 -91.093130 -1.469119
-0.004947 -1.022477 -70.999453
0.71837 -6.958496 -91.093130 -1.469119
-0.004947 -0.408065 -50.831931
0.85918 -6.958496 -91.093130 -1.469119
-0.004947 -0.309148 -37.614816
1.00000 -6.958496 -91.093130 -1.469119
-0.004947 -1.185986 -32.040405
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3449

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 9.410483 64.873190 2.083358
0.003207 2.315852 130.276350
0.57755 9.410483 64.873190 2.083358
0.003207 1.445079 105.538525
0.71837 9.410483 64.873190 2.083358
0.003207 0.576350 85.297463
0.85918 9.410483 64.873190 2.083358
0.003207 0.216605 76.079348
1.00000 9.410483 64.873190 2.083358
0.003207 0.827639 91.079124

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -8.428274 -105.800176 -1.456172
-0.003313 -1.622039 -134.314654
0.57755 -8.428274 -105.800176 -1.456172
-0.003313 -1.012104 -94.316570
0.71837 -8.428274 -105.800176 -1.456172
-0.003313 -0.402553 -62.092075
0.85918 -8.428274 -105.800176 -1.456172
-0.003313 -0.300359 -35.632933
1.00000 -8.428274 -105.800176 -1.456172
-0.003313 -1.174980 -33.768631

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 4.825725 44.299752 0.592910
0.001491 0.663441 56.726367
0.57755 4.825725 44.299752 0.592910
0.001491 0.414678 38.376245
0.71837 4.825725 44.299752 0.592910
0.001491 0.165487 20.303777
0.85918 4.825725 44.299752 0.592910
0.001491 0.061415 5.240053
1.00000 4.825725 44.299752 0.592910
0.001491 0.233482 3.574078

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -5.199331 -36.904555 -0.409788
-4.28E-06 -0.453451 -71.497964
0.57755 -5.199331 -36.904555 -0.409788
-4.28E-06 -0.281770 -56.682852
0.71837 -5.199331 -36.904555 -0.409788
-4.28E-06 -0.110003 -41.559064
0.85918 -5.199331 -36.904555 -0.409788
-4.28E-06 -0.080930 -29.214598
1.00000 -5.199331 -36.904555 -0.409788
-4.28E-06 -0.329652 -26.984465

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 11.088823 66.830936 1.006505
0.007538 1.098926 122.525658
0.57755 11.088823 66.830936 1.006505
0.007538 0.683842 96.497541
0.71837 11.088823 66.830936 1.006505
0.007538 0.276080 80.993338
0.85918 11.088823 66.830936 1.006505
0.007538 0.123687 88.321523
1.00000 11.088823 66.830936 1.006505
0.007538 0.390939 110.666846

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -6.744602 -120.188217 -0.642921
-0.005520 -0.707642 -122.362549
0.57755 -6.744602 -120.188217 -0.642921
-0.005520 -0.439613 -73.745194
0.71837 -6.744602 -120.188217 -0.642921
-0.005520 -0.172507 -44.789843
0.85918 -6.744602 -120.188217 -0.642921
-0.005520 -0.166586 -27.080362
1.00000 -6.744602 -120.188217 -0.642921
-0.005520 -0.587649 -24.533553
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43674	9.687917	84.053336	1.557543
0.005720	1.721368	161.727182	
0.57755	9.687917	84.053336	1.557543
0.005720	1.073217	128.862950	
0.71837	9.687917	84.053336	1.557543
0.005720	0.430114	103.591962	
0.85918	9.687917	84.053336	1.557543
0.005720	0.164753	95.391428	
1.00000	9.687917	84.053336	1.557543
0.005720	0.587688	102.367781	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43674	-9.177998	-113.210616	-1.009371
-0.004211	-1.119688	-130.690349	
0.57755	-9.177998	-113.210616	-1.009371
-0.004211	-0.697506	-85.416976	
0.71837	-9.177998	-113.210616	-1.009371
-0.004211	-0.276040	-54.399196	
0.85918	-9.177998	-113.210616	-1.009371
-0.004211	-0.234664	-31.784888	
1.00000	-9.177998	-113.210616	-1.009371
-0.004211	-0.887964	-23.726446	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43674	9.760331	74.878597	2.004038
0.004753	2.222087	138.532492	
0.57755	9.760331	74.878597	2.004038
0.004753	1.385898	109.719572	
0.71837	9.760331	74.878597	2.004038
0.004753	0.553752	87.349446	
0.85918	9.760331	74.878597	2.004038
0.004753	0.212367	79.995284	
1.00000	9.760331	74.878597	2.004038
0.004753	0.788247	90.320359	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43674	-9.752298	-111.134740	-1.374493
-0.004242	-1.528710	-142.636789	
0.57755	-9.752298	-111.134740	-1.374493
-0.004242	-0.953365	-99.976366	
0.71837	-9.752298	-111.134740	-1.374493
-0.004242	-0.378583	-69.210725	
0.85918	-9.752298	-111.134740	-1.374493
-0.004242	-0.294946	-45.923637	
1.00000	-9.752298	-111.134740	-1.374493
-0.004242	-1.135900	-38.387186	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43674	11.914652	81.430100	1.449793
0.007068	1.612975	162.173850	
0.57755	11.914652	81.430100	1.449793
0.007068	1.011623	129.022060	
0.71837	11.914652	81.430100	1.449793
0.007068	0.403962	102.395573	
0.85918	11.914652	81.430100	1.449793
0.007068	0.142332	100.700069	
1.00000	11.914652	81.430100	1.449793
0.007068	0.528450	106.635865	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43674	-8.866698	-127.863487	-0.941744
-0.005535	-1.050512	-140.390951	
0.57755	-8.866698	-127.863487	-0.941744
-0.005535	-0.655807	-95.371410	
0.71837	-8.866698	-127.863487	-0.941744
-0.005535	-0.261026	-68.752463	
0.85918	-8.866698	-127.863487	-0.941744
-0.005535	-0.213127	-46.309880	
1.00000	-8.866698	-127.863487	-0.941744
-0.005535	-0.811514	-45.580005	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43674	11.088823	84.053336	2.278805
0.007538	2.543188	161.727182	
0.57755	11.088823	84.053336	2.278805
0.007538	1.587579	128.862950	
0.71837	11.088823	84.053336	2.278805
0.007538	0.631434	103.591962	
0.85918	11.088823	84.053336	2.278805
0.007538	0.237196	99.985506	
1.00000	11.088823	84.053336	2.278805
0.007538	0.938506	110.666846	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43674	-9.752298	-120.188217	-1.675823
-0.005520	-1.871453	-142.636789	
0.57755	-9.752298	-120.188217	-1.675823
-0.005520	-1.169168	-99.976366	
0.71837	-9.752298	-120.188217	-1.675823
-0.005520	-0.466661	-69.210725	
0.85918	-9.752298	-120.188217	-1.675823
-0.005520	-0.321270	-49.431200	
1.00000	-9.752298	-120.188217	-1.675823
-0.005520	-1.275752	-48.215776	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43674	11.914652	84.053336	2.278805
0.007538	2.543188	162.173850	
0.57755	11.914652	84.053336	2.278805
0.007538	1.587579	129.022060	
0.71837	11.914652	84.053336	2.278805
0.007538	0.631434	103.591962	
0.85918	11.914652	84.053336	2.278805
0.007538	0.237196	100.700069	
1.00000	11.914652	84.053336	2.278805
0.007538	0.938506	110.666846	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43674	-9.752298	-127.863487	-1.675823
-0.005535	-1.871453	-142.636789	
0.57755	-9.752298	-127.863487	-1.675823
-0.005535	-1.169168	-99.976366	
0.71837	-9.752298	-127.863487	-1.675823
-0.005535	-0.466661	-69.210725	
0.85918	-9.752298	-127.863487	-1.675823
-0.005535	-0.321270	-49.431200	
1.00000	-9.752298	-127.863487	-1.675823
-0.005535	-1.275752	-48.215776	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43674	11.914652	84.053336	2.278805
0.007538	2.543188	162.173850	
0.57755	11.914652	84.053336	2.278805
0.007538	1.587579	129.022060	
0.71837	11.914652	84.053336	2.278805
0.007538	0.631434	103.591962	
0.85918	11.914652	84.053336	2.278805
0.007538	0.938506	110.666846	
1.00000	11.914652	84.053336	2.278805
0.007538	0.938506	110.666846	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43674	-9.752298	-127.863487	-1.675823
-0.005535	-1.871453	-142.636789	
0.57755	-9.752298	-127.863487	-1.675823
-0.005535	-1.169168	-99.976366	
0.71837	-9.752298	-127.863487	-1.675823
-0.005535	-0.466661	-69.210725	
0.85918	-9.752298	-127.863487	-1.675823
-0.005535	-0.321270	-49.431200	
1.00000	-9.752298	-127.863487	-1.675823
-0.005535	-1.275752	-48.215776	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 327 ========== LENGTH = 2.977608

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.680326	2.574946	0.705221
6.66E-06	0.392906	11.306202	
0.14085	2.680326	2.574946	0.705221
6.66E-06	0.097178	18.111113	
0.28170	2.680326	2.574946	0.705221
6.66E-06	0.146413	25.184063	
0.42256	2.680326	2.574946	0.705221
6.66E-06	0.364863	32.307571	
0.56341	2.680326	2.574946	0.705221
6.66E-06	0.583312	39.467308	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.018005	-17.147897	-0.520859
-0.000818	-0.290500	-24.654835	
0.14085	-1.018005	-17.147897	-0.520859
-0.000818	-0.072044	-25.396816	
0.28170	-1.018005	-17.147897	-0.520859
-0.000818	-0.198730	-26.164743	
0.42256	-1.018005	-17.147897	-0.520859
-0.000818	-0.494469	-26.953320	
0.56341	-1.018005	-17.147897	-0.520859
-0.000818	-0.790221	-27.793490	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.597189	12.647423	1.196395
0.000180	0.666926	17.788965	
0.14085	3.597189	12.647423	1.196395
0.000180	0.165259	28.411100	
0.28170	3.597189	12.647423	1.196395
0.000180	0.241380	40.060188	
0.42256	3.597189	12.647423	1.196395
0.000180	0.601883	52.735318	
0.56341	3.597189	12.647423	1.196395
0.000180	0.962379	65.942075	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.554718	-32.059691	-0.859546
-0.001648	-0.479992	-45.587405	
0.14085	-4.554718	-32.059691	-0.859546
-0.001648	-0.119751	-47.682155	
0.28170	-4.554718	-32.059691	-0.859546
-0.001648	-0.337373	-50.201943	
0.42256	-4.554718	-32.059691	-0.859546
-0.001648	-0.838616	-53.432541	
0.56341	-4.554718	-32.059691	-0.859546
-0.001648	-1.340247	-57.700345	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.855608	53.428710	1.421864
6.00E-06	0.790727	44.581773	
0.14085	3.855608	53.428710	1.421864
6.00E-06	0.194483	46.752872	
0.28170	3.855608	53.428710	1.421864
6.00E-06	0.261770	55.951095	
0.42256	3.855608	53.428710	1.421864
6.00E-06	0.653389	66.768940	
0.56341	3.855608	53.428710	1.421864
6.00E-06	1.044997	78.148923	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.314411	-39.801575	-0.933704
-0.001855	-0.521411	-37.695626	
0.14085	-7.314411	-39.801575	-0.933704
-0.001855	-0.129723	-36.799263	
0.28170	-7.314411	-39.801575	-0.933704
-0.001855	-0.402114	-52.292850	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42256	-7.314411	-39.801575	-0.933704
-0.001855	-0.998421	-72.847542	
0.56341	-7.314411	-39.801575	-0.933704
-0.001855	-1.594739	-94.468272	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.850953	89.919853	1.397277
0.003732	0.672874	104.984370	
0.14085	6.850953	89.919853	1.397277
0.003732	0.207663	105.152369	
0.28170	6.850953	89.919853	1.397277
0.003732	0.251330	110.987317	
0.42256	6.850953	89.919853	1.397277
0.003732	0.627484	128.334143	
0.56341	6.850953	89.919853	1.397277
0.003732	1.003544	152.693823	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.813261	-70.667696	-0.896748
-0.004746	-0.508217	-35.042176	
0.14085	-8.813261	-70.667696	-0.896748
-0.004746	-0.137865	-37.821239	
0.28170	-8.813261	-70.667696	-0.896748
-0.004746	-0.391381	-54.513778	
0.42256	-8.813261	-70.667696	-0.896748
-0.004746	-0.967642	-75.077114	
0.56341	-8.813261	-70.667696	-0.896748
-0.004746	-1.551339	-107.254806	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.850846	20.115449	0.514158
9.29E-06	0.285855	9.659881	
0.14085	0.850846	20.115449	0.514158
9.29E-06	0.070234	11.810747	
0.28170	0.850846	20.115449	0.514158
9.29E-06	0.092559	15.307376	
0.42256	0.850846	20.115449	0.514158
9.29E-06	0.231324	20.577477	
0.56341	0.850846	20.115449	0.514158
9.29E-06	0.370059	27.475991	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.440596	-17.051411	-0.330784
-0.000734	-0.184895	-14.946284	
0.14085	-4.440596	-17.051411	-0.330784
-0.000734	-0.046101	-18.638557	
0.28170	-4.440596	-17.051411	-0.330784
-0.000734	-0.145507	-24.730995	
0.42256	-4.440596	-17.051411	-0.330784
-0.000734	-0.361100	-32.076720	
0.56341	-4.440596	-17.051411	-0.330784
-0.000734	-0.576713	-39.871720	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.260557	107.789970	0.860946
0.004649	0.497990	106.926924	
0.14085	2.260557	107.789970	0.860946
0.004649	0.137948	79.867302	
0.28170	2.260557	107.789970	0.860946
0.004649	0.132188	60.217976	
0.42256	2.260557	107.789970	0.860946
0.004649	0.330305	56.263002	
0.56341	2.260557	107.789970	0.860946
0.004649	0.528361	62.167616	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.137095	-30.198615	-0.472254
-0.005465	-0.273952	-13.026051	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	-9.137095	-30.198615	-0.472254
-0.005465	-0.083797	-11.630503	
0.28170	-9.137095	-30.198615	-0.472254
-0.005465	-0.240798	-28.643455	
0.42256	-9.137095	-30.198615	-0.472254
-0.005465	-0.588535	-50.629666	
0.56341	-9.137095	-30.198615	-0.472254
-0.005465	-0.946450	-88.400800	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.664058	99.200429	1.325426
0.004201	0.754861	103.056143	
0.14085	3.664058	99.200429	1.325426
0.004201	0.199949	84.561180	
0.28170	3.664058	99.200429	1.325426
0.004201	0.231623	72.638186	
0.42256	3.664058	99.200429	1.325426
0.004201	0.578133	74.856113	
0.56341	3.664058	99.200429	1.325426
0.004201	0.924576	85.979195	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.852299	-41.127215	-0.826055
-0.005581	-0.470325	-31.750308	
0.14085	-9.852299	-41.127215	-0.826055
-0.005581	-0.130971	-31.098122	
0.28170	-9.852299	-41.127215	-0.826055
-0.005581	-0.372016	-47.507120	
0.42256	-9.852299	-41.127215	-0.826055
-0.005581	-0.915831	-68.063258	
0.56341	-9.852299	-41.127215	-0.826055
-0.005581	-1.468854	-102.896898	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.384709	91.036173	1.294740
0.003448	0.732236	88.951540	
0.14085	7.384709	91.036173	1.294740
0.003448	0.189881	95.196420	
0.28170	7.384709	91.036173	1.294740
0.003448	0.234443	107.100208	
0.42256	7.384709	91.036173	1.294740
0.003448	0.585844	128.582993	
0.56341	7.384709	91.036173	1.294740
0.003448	0.937187	156.008128	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.362063	-77.479511	-0.837741
-0.003954	-0.747179	-72.517308	
0.14085	-9.362063	-77.479511	-0.837741
-0.003954	-0.127464	-38.184009	
0.28170	-9.362063	-77.479511	-0.837741
-0.003954	-0.363705	-58.178130	
0.42256	-9.362063	-77.479511	-0.837741
-0.003954	-0.898814	-82.054144	
0.56341	-9.362063	-77.479511	-0.837741
-0.003954	-1.439952	-115.551909	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.480776	31.771054	0.373683
0.001382	0.209060	2.944816	
0.14085	5.480776	31.771054	0.373683
0.001382	0.052278	6.404584	
0.28170	5.480776	31.771054	0.373683
0.001382	0.082679	23.351394	
0.42256	5.480776	31.771054	0.373683
0.001382	0.207170	40.524020	
0.56341	5.480776	31.771054	0.373683
0.001382	0.331659	57.996741	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.171000	-41.685469	-0.296826
-2.00E-05	-0.166312	-13.287899	
0.14085	-3.171000	-41.685469	-0.296826
-2.00E-05	-0.041828	-24.348561	
0.28170	-3.171000	-41.685469	-0.296826
-2.00E-05	-0.104400	-36.804735	
0.42256	-3.171000	-41.685469	-0.296826
-2.00E-05	-0.261119	-49.846203	
0.56341	-3.171000	-41.685469	-0.296826
-2.00E-05	-0.417836	-63.046436	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.193970	113.433448	0.654771
0.007153	0.389495	104.147564	
0.14085	8.193970	113.433448	0.654771
0.007153	0.116061	89.940587	
0.28170	8.193970	113.433448	0.654771
0.007153	0.121337	85.380138	
0.42256	8.193970	113.433448	0.654771
0.007153	0.302546	99.156472	
0.56341	8.193970	113.433448	0.654771
0.007153	0.485726	124.465111	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.400554	-65.919762	-0.434366
-0.005513	-0.255195	-14.452041	
0.14085	-7.400554	-65.919762	-0.434366
-0.005513	-0.082765	-28.377669	
0.28170	-7.400554	-65.919762	-0.434366
-0.005513	-0.179841	-43.267180	
0.42256	-7.400554	-65.919762	-0.434366
-0.005513	-0.438229	-63.473437	
0.56341	-7.400554	-65.919762	-0.434366
-0.005513	-0.708985	-102.472701	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.705886	120.765663	0.978810
0.005208	0.561523	91.872577	
0.14085	7.705886	120.765663	0.978810
0.005208	0.151765	84.406555	
0.28170	7.705886	120.765663	0.978810
0.005208	0.168316	87.342877	
0.42256	7.705886	120.765663	0.978810
0.005208	0.421374	103.543404	
0.56341	7.705886	120.765663	0.978810
0.005208	0.674380	128.019105	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.898257	-72.859678	-0.603268
-0.004422	-0.346085	-15.815267	
0.14085	-9.898257	-72.859678	-0.603268
-0.004422	-0.099664	-25.779351	
0.28170	-9.898257	-72.859678	-0.603268
-0.004422	-0.273390	-53.569721	
0.42256	-9.898257	-72.859678	-0.603268
-0.004422	-0.672814	-85.133547	
0.56341	-9.898257	-72.859678	-0.603268
-0.004422	-1.080682	-129.742627	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.534569	104.146005	1.257865
0.004316	0.713038	80.479397	
0.14085	7.534569	104.146005	1.257865
0.004316	0.187078	79.051469	
0.28170	7.534569	104.146005	1.257865
0.004316	0.228918	86.586818	
0.42256	7.534569	104.146005	1.257865
0.004316	0.572240	105.207354	
0.56341	7.534569	104.146005	1.257865
0.004316	0.915525	130.703369	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.439961	-72.836927	-0.818511
-0.004223	-0.464566	-31.771422	
0.14085	-10.439961	-72.836927	-0.818511
-0.004223	-0.126712	-40.808856	
0.28170	-10.439961	-72.836927	-0.818511
-0.004223	-0.352651	-64.224030	
0.42256	-10.439961	-72.836927	-0.818511
-0.004223	-0.871022	-91.469542	
0.56341	-10.439961	-72.836927	-0.818511
-0.004223	-1.396383	-129.762196	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.785474	5.385977	1.081972
3.88E-06	0.601543	15.157793	
0.14085	4.785474	5.385977	1.081972
3.88E-06	0.146488	23.759058	
0.28170	4.785474	5.385977	1.081972
3.88E-06	0.249831	32.710019	
0.42256	4.785474	5.385977	1.081972
3.88E-06	0.623803	42.053664	
0.56341	4.785474	5.385977	1.081972
3.88E-06	0.997610	51.614660	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.215413	-23.811526	-0.891403
-0.000869	-0.479840	-27.666197	
0.14085	-1.215413	-23.811526	-0.891403
-0.000869	-0.124073	-28.524331	
0.28170	-1.215413	-23.811526	-0.891403
-0.000869	-0.304547	-29.642224	
0.42256	-1.215413	-23.811526	-0.891403
-0.000869	-0.756912	-31.178345	
0.56341	-1.215413	-23.811526	-0.891403
-0.000869	-1.212843	-32.984487	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.970634	15.494504	1.844602
0.000108	1.024479	21.711354	
0.14085	5.970634	15.494504	1.844602
0.000108	0.249085	36.442240	
0.28170	5.970634	15.494504	1.844602
0.000108	0.413045	52.538897	
0.42256	5.970634	15.494504	1.844602
0.000108	1.033764	69.830610	
0.56341	5.970634	15.494504	1.844602
0.000108	1.654237	87.659975	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.386815	-44.171611	-1.479781
-0.001679	-0.828696	-48.227451	
0.14085	-4.386815	-44.171611	-1.479781
-0.001679	-0.208326	-49.696077	
0.28170	-4.386815	-44.171611	-1.479781
-0.001679	-0.521037	-52.576855	
0.42256	-4.386815	-44.171611	-1.479781
-0.001679	-1.295117	-57.149330	
0.56341	-4.386815	-44.171611	-1.479781
-0.001679	-2.068777	-62.838905	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	6.126678	49.247917	2.216769	
8.48E-06	1.229731	55.347819		
0.14085	6.126678	49.247917	2.216769	
8.48E-06	0.297385	61.655676		
0.28170	6.126678	49.247917	2.216769	
8.48E-06	0.471652	75.827385		
0.42256	6.126678	49.247917	2.216769	
8.48E-06	1.180877	93.721317		
0.56341	6.126678	49.247917	2.216769	
8.48E-06	1.886987	112.660278		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3457

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-6.587843	-52.673625	-1.691097	
-0.001841	-0.947053	-40.325175		
0.14085	-6.587843	-52.673625	-1.691097	
-0.001841	-0.237032	-40.036237		
0.28170	-6.587843	-52.673625	-1.691097	
-0.001841	-0.626704	-52.444411		
0.42256	-6.587843	-52.673625	-1.691097	
-0.001841	-1.557306	-70.874388		
0.56341	-6.587843	-52.673625	-1.691097	
-0.001841	-2.487297	-90.309751		

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.412770	81.751976	2.175044	
0.002935	1.220686	108.066471		
0.14085	8.412770	81.751976	2.175044	
0.002935	0.306831	113.941532		
0.28170	8.412770	81.751976	2.175044	
0.002935	0.442696	126.647776		
0.42256	8.412770	81.751976	2.175044	
0.002935	1.106767	149.935037		
0.56341	8.412770	81.751976	2.175044	
0.002935	1.771080	179.550414		

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-8.533867	-79.338148	-1.585813	
-0.004137	-0.899041	-37.448952		
0.14085	-8.533867	-79.338148	-1.585813	
-0.004137	-0.234463	-41.402263		
0.28170	-8.533867	-79.338148	-1.585813	
-0.004137	-0.611099	-56.341455		
0.42256	-8.533867	-79.338148	-1.585813	
-0.004137	-1.517383	-76.823877		
0.56341	-8.533867	-79.338148	-1.585813	
-0.004137	-2.426648	-109.060967		

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.960614	17.168947	0.804256	
5.49E-06	0.415233	10.446656		
0.14085	0.960614	17.168947	0.804256	
5.49E-06	0.107054	15.261291		
0.28170	0.960614	17.168947	0.804256	
5.49E-06	0.165447	22.168786		
0.42256	0.960614	17.168947	0.804256	
5.49E-06	0.416134	30.298141		
0.56341	0.960614	17.168947	0.804256	
5.49E-06	0.666728	39.134700		

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-3.825012	-21.913843	-0.597557	
-0.000738	-0.335792	-14.423202		
0.14085	-3.825012	-21.913843	-0.597557	
-0.000738	-0.085057	-16.934273		
0.28170	-3.825012	-21.913843	-0.597557	
-0.000738	-0.226204	-21.896100		
0.42256	-3.825012	-21.913843	-0.597557	
-0.000738	-0.565952	-31.370948		
0.56341	-3.825012	-21.913843	-0.597557	
-0.000738	-0.903328	-34.607566		

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	2.413205	92.061377	1.319351	
0.003943	0.750175	107.487107		
0.14085	2.413205	92.061377	1.319351	
0.003943	0.196153	86.437249		
0.28170	2.413205	92.061377	1.319351	
0.003943	0.248408	74.737668		
0.42256	2.413205	92.061377	1.319351	
0.003943	0.618458	75.986326		
0.56341	2.413205	92.061377	1.319351	
0.003943	0.990723	86.834348		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3458

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-8.092710	-36.399347	-0.890146	
-0.004966	-1.517535	-11.931994		
0.14085	-8.092710	-36.399347	-0.890146	
-0.004966	-0.145241	-10.764884		
0.28170	-8.092710	-36.399347	-0.890146	
-0.004966	-0.370304	-24.626348		
0.42256	-8.092710	-36.399347	-0.890146	
-0.004966	-0.913768	-43.843453		
0.56341	-8.092710	-36.399347	-0.890146	
-0.004966	-1.462356	-80.315223		

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	4.959567	86.888621	2.030541	
0.003569	1.143621	105.665368		
0.14085	4.959567	86.888621	2.030541	
0.003569	0.290537	93.871007		
0.28170	4.959567	86.888621	2.030541	
0.003569	0.412653	90.484534		
0.42256	4.959567	86.888621	2.030541	
0.003569	1.034162	99.958525		
0.56341	4.959567	86.888621	2.030541	
0.003569	1.655799	117.650928		

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-8.887898	-52.152413	-1.484504	
-0.005176	-0.848213	-32.040009		
0.14085	-8.887898	-52.152413	-1.484504	
-0.005176	-0.226440	-31.674626		
0.28170	-8.887898	-52.152413	-1.484504	
-0.005176	-0.571291	-45.648847		
0.42256	-8.887898	-52.152413	-1.484504	
-0.005176	-1.414268	-64.317209		
0.56341	-8.887898	-52.152413	-1.484504	
-0.005176	-2.261676	-98.640870		

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.967010	86.315141	2.047133	
0.002905	1.147093	91.101001		
0.14085	7.967010	86.315141	2.047133	
0.002905	0.287402	101.136952		
0.28170	7.967010	86.315141	2.047133	
0.002905	0.405062	118.710453		
0.42256	7.967010	86.315141	2.047133	
0.002905	1.013552	144.951213		
0.56341	7.967010	86.315141	2.047133	
0.002905	1.622083	176.405896		

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.596725	-82.846866	-1.452413	
-0.003493	-0.822584	-33.746535		
0.14085	-9.596725	-82.846866	-1.452413	
-0.003493	-0.213575	-41.947441		
0.28170	-9.596725	-82.846866	-1.452413	
-0.003493	-0.575083	-62.637654		
0.42256	-9.596725	-82.846866	-1.452413	
-0.003493	-1.429231	-87.560393		
0.56341	-9.596725	-82.846866	-1.452413	
-0.003493	-2.285345	-122.172222		

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	4.863644	44.426756	0.614173	
0.001466	0.343237	3.567334		
0.14085	4.863644	44.426756	0.614173	
0.001466	0.085762	8.308945		
0.28170	4.863644	44.426756	0.614173	
0.001466	0.107104	22.903825		
0.42256	4.863644	44.426756	0.614173	
0.001466	0.266044	38.176778		
0.56341	4.863644	44.426756	0.614173	
0.001466	0.425005	53.622329		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3459

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-5.227388	-37.288209	-0.378810	
-1.54E-05	-0.210329	-26.979969		
0.14085	-5.227388	-37.288209	-0.378810	
-1.54E-05	-0.051127	-39.298820		
0.28170	-5.227388	-37.288209	-0.378810	
-1.54E-05	-0.169757	-56.665892		
0.42256	-5.227388	-37.288209	-0.378810	
-1.54E-05	-0.428052	-74.925775		
0.56341	-5.227388	-37.288209	-0.378810	
-1.54E-05	-0.685823	-93.375698		

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.352760	123.912922	1.029123	
0.007138	0.601093	110.722012		
0.14085	7.352760	123.912922	1.029123	
0.007138	0.170967	96.288195		
0.28170	7.352760	123.912922	1.029123	
0.007138	0.168656	88.896930		
0.42256	7.352760	123.912922	1.029123	
0.007138	0.418554	99.137171		
0.56341	7.352760	123.912922	1.029123	
0.007138	0.668879	121.505915		

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-9.870892	-59.983332	-0.600469	
-0.005757	-0.359381	-24.505869		
0.14085	-9.870892	-59.983332	-0.600469	
-0.005757	-0.110044	-41.724082		
0.28170	-9.870892	-59.983332	-0.600469	
-0.005757	-0.281461	-62.367823		
0.42256	-9.870892	-59.983332	-0.600469	
-0.005757	-0.699407	-83.011708		
0.56341	-9.870892	-59.983332	-0.600469	
-0.005757	-1.123674	-137.728767		

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.003070	124.915239	1.555662	
0.005409	0.884319	102.408050		
0.14085	7.003070	124.915239	1.555662	
0.005409	0.231730	93.600875		
0.28170	7.003070	124.915239	1.555662	
0.005409	0.274903	96.239389		
0.42256	7.003070	124.915239	1.555662	
0.005409	0.687082	112.568759		
0.56341	7.003070	124.915239	1.555662	
0.005409	1.099484	137.872250		

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.419733	-69.899951	-0.985700	
-0.004705	-0.569142	-23.700391		
0.14085	-11.419733	-69.899951	-0.985700	
-0.004705	-0.156886	-37.757453		
0.28170	-11.419733	-69.899951	-0.985700	
-0.004705	-0.432591	-67.403880		
0.42256	-11.419733	-69.899951	-0.985700	
-0.004705	-1.075675	-100.337383		
0.56341	-11.419733	-69.899951	-0.985700	
-0.004705	-1.723002	-150.671565		

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	7.510883	108.639849	1.977751	
0.004493	1.114692	90.361025		
0.14085	7.510883	108.639849	1.977751	
0.004493	0.284693	89.274982		
0.28170	7.510883	108.639849	1.977751	
0.004493	0.379813	98.232024		
0.42256	7.510883	108.639849	1.977751	
0.004493	0.950323	118.675185		
0.56341	7.510883	108.639849	1.977751	
0.004493	1.520959	146.691884		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3460

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.597095	-75.111689	-1.362701	
-0.004503	-0.777591	-38.370406		
0.14085	-11.597095	-75.111689	-1.362701	
-0.004503	-0.206894	-50.524527		
0.28170	-11.597095	-75.111689	-1.362701	
-0.004503	-0.603559	-76.193081		
0.42256	-11.597095	-75.111689	-1.362701	
-0.004503	-1.375427	-105.274661		
0.56341	-11.597095	-75.111689	-1.362701	
-0.004503	-2.200709	-148.976363		

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.193970	120.765663	1.421864	
0.007153	0.792874	106.926924		
0.14085	8.193970	120.765663	1.421864	
0.007153	0.207663	105.152369		
0.28170	8.193970	120.765663	1.421864	
0.007153	0.261770	110.987317		
0.42256	8.193970	120.765663	1.421864	
0.007153	0.653389	128.582993		
0.56341	8.193970	120.765663	1.421864	
0.007153	1.044997	156.008128		

COMB DB ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-10.439961	-77.479511	-0.933704	
-0.005581	-0.934111	-45.587405		
0.14085	-10.439961	-77.479511	-0.933704	
-0.005581	-0.137865	-47.682155		
0.28170	-10.439961	-77.479511	-0.933704	
-0.005581	-0.402114	-64.224030		
0.42256	-10.439961	-77.479511	-0.933704	
-0.005581	-0.998421	-91.469542		
0.56341	-10.439961	-77.479511	-0.933704	
-0.005581	-1.594739	-129.762196		

COMB DL ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.412770	124.915239	2.216769	
0.007138	1.229731	110.722012		
0.14085	8.412770	124.915239	2.216769	
0.007138	0.306831	113.941532		
0.28170	8.412770	124.915239	2.216769	
0.007138	0.471652	126.647776		
0.42256	8.412770	124.915239	2.216769	
0.007138	1.180877	149.935037		
0.56341	8.412770	124.915239	2.216769	
0.007138	1.889987	179.550414		

COMB DL ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.597095	-82.846866	-1.691097	
-0.005757	-0.947053	-48.227451		
0.14085	-11.597095	-82.846866	-1.691097	
-0.005757	-0.237032	-50.524527		
0.28170	-11.597095	-82.846866	-1.691097	
-0.005757	-0.626704	-76.193081		
0.42256	-11.597095	-82.846866	-1.691097	
-0.005757	-1.557306	-105.274661		
0.56341	-11.597095	-82.846866	-1.691097	
-0.005757	-2.487297	-150.671565		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3461

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.597095	-82.846866	-1.691097	
-0.005757	-0.947053	-48.227451		
0.14085	-11.597095	-82.846866	-1.691097	
-0.005757	-0.237032	-50.524527		
0.28170	-11.597095	-82.846866	-1.691097	
-0.005757	-0.626704	-76.193081		
0.42256	-11.597095	-82.846866	-1.691097	
-0.005757	-1.557306	-105.274661		
0.56341	-11.597095	-82.846866	-1.691097	
-0.005757	-2.487297	-150.671565		

COMB DESIGN ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	8.412770	124.915239	2.216769	
0.007153	1.229731	110.722012		
0.14085	8.412770	124.915239	2.216769	
0.007153	0.306831	113.941532		
0.28170	8.412770	124.915239	2.216769	
0.007153	0.471652	126.647776		
0.42256	8.412770	124.915239	2.216769	
0.007153	1.180877	149.935037		
0.56341	8.412770	124.915239	2.216769	
0.007153	1.889987	179.550414		

COMB DESIGN ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-11.597095	-82.846866	-1.691097	
-0.005757	-0.947053	-48.227451		
0.14085	-11.597095	-82.846866	-1.691097	
-0.005757	-0.237032	-50.524527		
0.28170	-11.597095	-82.846866	-1.691097	
-0.005757	-0.626704	-76.193081		
0.42256	-11.597095	-82.846866	-1.691097	
-0.005757	-1.557306	-105.274661		
0.56341	-11.597095	-82.846866	-1.691097	
-0.005757	-2.487297	-150.671565		

ELEM 328 ========== LENGTH = 2.976854

COMB DB-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	2.670258	3.118731	0.714962	
0.000527	0.772119	4.098837		
0.57753	2.670258	3.118731	0.714962	
0.000527	0.472408	3.177240		
0.71835	2.670258	3.118731	0.714962	
0.000527	0.172706	3.183678		
0.85918	2.670258	3.118731	0.714962	
0.000527	0.097359	4.007888		
1.00000	2.670258	3.118731	0.714962	
0.000527	0.324805	8.111737		

COMB DB-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	-0.841050	-20.285390	-0.542561	
-0.000990	-0.584992	-26.463758		
0.57753	-0.841050	-20.285390	-0.542561	
-0.000990	-0.357543	-17.965662		
0.71835	-0.841050	-20.285390	-0.542561	
-0.000990	-0.130094	-12.329632		
0.85918	-0.841050	-20.285390	-0.542561	
-0.000990	-0.126982	-10.325877		
1.00000	-0.841050	-20.285390	-0.542561	
-0.000990	-0.426776	-9.063943		

COMB DB-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	6.368530	4.822117	1.217025	
0.000871	1.313705	6.265647		
0.57753	6.368530	4.822117	1.217025	
0.000871	0.803678	4.343765		
0.71835	6.368530	4.822117	1.217025	
0.000871	0.293634	2.591172		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3462

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.85918	6.368530	4.822117	1.217025	
0.000871	0.160223	3.779862		
1.00000	6.368530	4.822117	1.217025	
0.000871	0.534334	13.613651		

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	-0.548022	-42.880314	-0.893046	
-0.001855	-0.963181	-69.928298		
0.57753	-0.548022	-42.880314	-0.893046	
-0.001855	-0.588802	-52.651430		
0.71835	-0.548022	-42.880314	-0.893046	
-0.001855	-0.214418	-39.139042		
0.85918	-0.548022	-42.880314	-0.893046	
-0.001855	-0.217057	-32.576878		
1.00000	-0.548022	-42.880314	-0.893046	
-0.001855	-0.727337	-26.743271		

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	7.023763	20.361221	1.448273	
0.000638	1.564072	45.225864		
0.57753	7.023763	20.361221	1.448273	
0.000638	0.956941	36.736406		
0.71835	7.023763	20.361221	1.448273	
0.000638	0.349758	28.559960		
0.85918	7.023763	20.361221	1.448273	
0.000638	0.180261	22.795775		
1.00000	7.023763	20.361221	1.448273	
0.000638	0.605372	27.161217		

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	-1.705715	-55.314859	-1.013866	
-0.001622	-1.094735	-85.735063		
0.57753	-1.705715	-55.314859	-1.013866	
-0.001622	-0.669708	-63.028486		
0.71835	-1.705715	-55.314859	-1.013866	
-0.001622	-0.244593	-43.292223		
0.85918	-1.705715	-55.314859	-1.013866	
-0.001622	-0.257204	-29.271202		
1.00000	-1.705715	-55.314859	-1.013866	
-0.001622	-0.864479	-17.999509		

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	9.119897	29.361679	1.407495	
0.003807	1.511990	58.627260		
0.57753	9.119897	29.361679	1.407495	
0.003807	0.925069	47.141406		
0.71835	9.119897	29.361679	1.407495	
0.003807	0.338137	39.489344		
0.85918	9.119897	29.361679	1.407495	
0.003807	0.189930	50.172632		
1.00000	9.119897	29.361679	1.407495	
0.003807	0.616230	78.731720		

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	-3.420714	-111.393353	-1.030631	
-0.003736	-1.112012	-124.710437		
0.57753	-3.420714	-111.393353	-1.030631	
-0.003736	-0.679957	-78.594722		
0.71835	-3.420714	-111.393353	-1.030631	
-0.003736	-0.247769	-43.058202		
0.85918	-3.420714	-111.393353	-1.030631	
-0.003736	-0.263414	-24.610713		
1.00000	-3.420714	-111.393353	-1.030631	
-0.003736	-0.853324	-17.616692		

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	3.947003	2.560438	0.525825	
0.000106	0.567704	4.005052		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3463

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.57753	3.947003	2.560438	0.525825	
0.000106	0.347277	3.332753		
0.71835	3.947003	2.560438	0.525825	
0.000106	0.126804	2.717485		
0.85918	3.947003	2.560438	0.525825	
0.000106	0.060323	2.640767		
1.00000	3.947003	2.560438	0.525825	
0.000106	0.202456	6.287941		

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	-0.139249	-25.009433	-0.338937	
-0.000713	-0.365925	-48.007027		
0.57753	-0.139249	-25.009433	-0.338937	
-0.000713	-0.223830	-38.129165		
0.71835	-0.139249	-25.009433	-0.338937	
-0.000713	-0.081710	-28.770825		
0.85918	-0.139249	-25.009433	-0.338937	
-0.000713	-0.093538	-22.369428		
1.00000	-0.139249	-25.009433	-0.338937	
-0.000713	-0.314038	-17.276848		

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	7.398833	22.507045	0.860246	
0.003921	0.918451	53.225677		
0.57753	7.398833	22.507045	0.860246	
0.003921	0.562096	44.670255		
0.71835	7.398833	22.507045	0.860246	
0.003921	0.205731	41.006109		
0.85918	7.398833	22.507045	0.860246	
0.003921	0.108660	57.848401		
1.00000	7.398833	22.507045	0.860246	
0.003921	0.339614	79.761917		

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43670	-2.064666	-93.491367	-0.570049	
-0.003612	-0.616286	-99.278970		
0.57753	-2.064666	-93.491367	-0.570049	
-0.003612	-0.377313	-60.883087		
0.71835	-2.064666	-93.491367	-0.570049	
-0.003612	-0.138223	-33.625730		
0.85918	-2.064666	-93.491367	-0.570049	
-0.003612	-0.170731	-19.926994		
1.00000	-2.064666	-93.491367	-0.570049	
-0.003612	-0.531105	-9.008302		

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	9.206695	22.314308	1.335065
0.003916	1.432150	50.213533	
0.57753	9.206695	22.314308	1.335065
0.003916	0.876332	41.697178	
0.71835	9.206695	22.314308	1.335065
0.003916	0.320515	37.655924	
0.85918	9.206695	22.314308	1.335065
0.003916	0.172308	52.284131	
1.00000	9.206695	22.314308	1.335065
0.003916	0.554389	77.021142	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-1.991964	-101.608777	-0.928702
-0.004028	-1.009219	-112.678331	
0.57753	-1.991964	-101.608777	-0.928702
-0.004028	-0.613594	-70.758500	
0.71835	-1.991964	-101.608777	-0.928702
-0.004028	-0.224162	-41.348737	
0.85918	-1.991964	-101.608777	-0.928702
-0.004028	-0.253408	-27.840705	
1.00000	-1.991964	-101.608777	-0.928702
-0.004028	-0.812932	-16.834557	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3464

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	8.614463	39.156571	1.327997
0.003449	1.427334	72.163575	
0.57753	8.614463	39.156571	1.327997
0.003449	0.873153	56.423400	
0.71835	8.614463	39.156571	1.327997
0.003449	0.318907	43.911834	
0.85918	8.614463	39.156571	1.327997
0.003449	0.175392	45.456998	
1.00000	8.614463	39.156571	1.327997
0.003449	0.570752	66.493886	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-4.548749	-101.433039	-0.954161
-0.003199	-1.029243	-120.296192	
0.57753	-4.548749	-101.433039	-0.954161
-0.003199	-0.629245	-78.298833	
0.71835	-4.548749	-101.433039	-0.954161
-0.003199	-0.229105	-45.175211	
0.85918	-4.548749	-101.433039	-0.954161
-0.003199	-0.247021	-23.824709	
1.00000	-4.548749	-101.433039	-0.954161
-0.003199	-0.803703	-19.478108	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	1.146598	43.578732	0.410126
0.001227	0.442199	62.072587	
0.57753	1.146598	43.578732	0.410126
0.001227	0.270274	43.871734	
0.71835	1.146598	43.578732	0.410126
0.001227	0.098345	25.746751	
0.85918	1.146598	43.578732	0.410126
0.001227	0.060087	8.046433	
1.00000	1.146598	43.578732	0.410126
0.001227	0.200177	2.300485	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-5.272212	-6.856992	-0.334190
-0.000475	-0.360210	-20.039637	
0.57753	-5.272212	-6.856992	-0.334190
-0.000475	-0.220113	-17.305040	
0.71835	-5.272212	-6.856992	-0.334190
-0.000475	-0.080015	-14.818638	
0.85918	-5.272212	-6.856992	-0.334190
-0.000475	-0.042592	-12.484852	
1.00000	-5.272212	-6.856992	-0.334190
-0.000475	-0.245533	-12.775163	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	5.357189	60.175485	0.676415
0.006083	0.716888	102.463164	
0.57753	5.357189	60.175485	0.676415
0.006083	0.438525	78.330226	
0.71835	5.357189	60.175485	0.676415
0.006083	0.160137	59.659592	
0.85918	5.357189	60.175485	0.676415
0.006083	0.107521	66.172865	
1.00000	5.357189	60.175485	0.676415
0.006083	0.325843	83.712252	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-7.357158	-90.983164	-0.544211
-0.004197	-0.586731	-81.384944	
0.57753	-7.357158	-90.983164	-0.544211
-0.004197	-0.358590	-43.688369	
0.71835	-7.357158	-90.983164	-0.544211
-0.004197	-0.130407	-19.510918	
0.85918	-7.357158	-90.983164	-0.544211
-0.004197	-0.142732	-11.017808	
1.00000	-7.357158	-90.983164	-0.544211
-0.004197	-0.425948	-13.738214	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3465

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	6.742744	60.241270	1.012756
0.004466	1.084242	103.767022	
0.57753	6.742744	60.241270	1.012756
0.004466	0.663250	79.459426	
0.71835	6.742744	60.241270	1.012756
0.004466	0.242200	59.422782	
0.85918	6.742744	60.241270	1.012756
0.004466	0.13496	57.333441	
1.00000	6.742744	60.241270	1.012756
0.004466	0.429445	68.203947	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-6.942974	-89.863536	-0.719550
-0.003302	-0.777145	-101.212365	
0.57753	-6.942974	-89.863536	-0.719550
-0.003302	-0.475499	-63.963955	
0.71835	-6.942974	-89.863536	-0.719550
-0.003302	-0.173746	-36.002944	
0.85918	-6.942974	-89.863536	-0.719550
-0.003302	-0.195506	-18.875343	
1.00000	-6.942974	-89.863536	-0.719550
-0.003302	-0.619892	-13.252425	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	8.274520	51.984756	1.296048
0.003964	1.391644	89.257658	
0.57753	8.274520	51.984756	1.296048
0.003964	0.851274	68.142897	
0.71835	8.274520	51.984756	1.296048
0.003964	0.310842	50.600264	
0.85918	8.274520	51.984756	1.296048
0.003964	0.170795	48.058695	
1.00000	8.274520	51.984756	1.296048
0.003964	0.554314	60.022275	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-5.913958	-90.636827	-0.927979
-0.003385	-1.001780	-111.686386	
0.57753	-5.913958	-90.636827	-0.927979
-0.003385	-0.612752	-74.354066	
0.71835	-5.913958	-90.636827	-0.927979
-0.003385	-0.223645	-46.689406	
0.85918	-5.913958	-90.636827	-0.927979
-0.003385	-0.243284	-29.922646	
1.00000	-5.913958	-90.636827	-0.927979
-0.003385	-0.786513	-22.817952	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	4.518761	6.446536	1.158025
0.000512	1.250252	9.458054	
0.57753	4.518761	6.446536	1.158025
0.000512	0.764591	7.248552	
0.71835	4.518761	6.446536	1.158025
0.000512	0.278792	5.203643	
0.85918	4.518761	6.446536	1.158025
0.000512	0.182347	3.818803	
1.00000	4.518761	6.446536	1.158025
0.000512	0.610413	11.423804	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-0.911586	-32.172013	-1.021383
-0.001042	-1.102347	-47.653324	
0.57753	-0.911586	-32.172013	-1.021383
-0.001042	-0.674200	-34.290826	
0.71835	-0.911586	-32.172013	-1.021383
-0.001042	-0.246084	-22.014766	
0.85918	-0.911586	-32.172013	-1.021383
-0.001042	-0.204640	-11.773120	
1.00000	-0.911586	-32.172013	-1.021383
-0.001042	-0.690955	-9.575517	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3466

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	10.689279	9.117381	2.005277
0.000780	2.163235	12.313363	
0.57753	10.689279	9.117381	2.005277
0.000780	1.322442	8.669258	
0.71835	10.689279	9.117381	2.005277
0.000780	0.481184	5.522633	
0.85918	10.689279	9.117381	2.005277
0.000780	0.298289	3.770369	
1.00000	10.689279	9.117381	2.005277
0.000780	1.001515	17.285743	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-0.845445	-69.280044	-1.678101
-0.001837	-1.812628	-119.365406	
0.57753	-0.845445	-69.280044	-1.678101
-0.001837	-1.109198	-90.649214	
0.71835	-0.845445	-69.280044	-1.678101
-0.001837	-0.405950	-63.265635	
0.85918	-0.845445	-69.280044	-1.678101
-0.001837	-0.702452	-38.659728	
1.00000	-0.845445	-69.280044	-1.678101
-0.001837	-1.198361	-26.721941	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	11.400928	21.708272	2.414289
0.000617	2.605237	44.356398	
0.57753	11.400928	21.708272	2.414289
0.000617	1.592857	35.804926	
0.71835	11.400928	21.708272	2.414289
0.000617	0.579677	28.294568	
0.85918	11.400928	21.708272	2.414289
0.000617	0.347253	24.487455	
1.00000	11.400928	21.708272	2.414289
0.000617	1.171600	37.366773	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-1.872946	-85.152378	-1.964655
-0.001682	-2.122906	-130.554972	
0.57753	-1.872946	-85.152378	-1.964655
-0.001682	-1.299364	-95.508196	
0.71835	-1.872946	-85.152378	-1.964655
-0.001682	-0.475690	-62.854629	
0.85918	-1.872946	-85.152378	-1.964655
-0.001682	-0.427758	-33.674068	
1.00000	-1.872946	-85.152378	-1.964655
-0.001682	-1.441549	-19.074179	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	12.403750	35.863200	2.358619
0.003314	2.538954	68.620161	
0.57753	12.403750	35.863200	2.358619
0.003314	1.551860	54.668179	
0.71835	12.403750	35.863200	2.358619
0.003314	0.565237	45.838842	
0.85918	12.403750	35.863200	2.358619
0.003314	0.346676	52.305151	
1.00000	12.403750	35.863200	2.358619
0.003314	1.147642	82.236668	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-4.596842	-128.044710	-1.916762
-0.003141	-2.068668	-157.326865	
0.57753	-4.596842	-128.044710	-1.916762
-0.003141	-1.265178	-104.689612	
0.71835	-4.596842	-128.044710	-1.916762
-0.003141	-0.462538	-59.559642	
0.85918	-4.596842	-128.044710	-1.916762
-0.003141	-0.428761	-28.303823	
1.00000	-4.596842	-128.044710	-1.916762
-0.003141	-1.418838	-18.568077	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3467

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	6.284125	3.521947	0.895761
7.89E-05	0.965662	4.830511	
0.57753	6.284125	3.521947	0.895761
7.89E-05	0.590058	3.411206	
0.71835	6.284125	3.521947	0.895761
7.89E-05	0.214141	2.072932	
0.85918	6.284125	3.521947	0.895761
7.89E-05	0.118164	2.229408	
1.00000	6.284125	3.521947	0.895761
7.89E-05	0.400572	7.947300	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-0.153733	-39.521119	-0.673266
-0.000653	-0.172485	-71.989114	
0.57753	-0.153733	-39.521119	-0.673266
-0.000653	-0.446319	-55.685033	
0.71835	-0.153733	-39.521119	-0.673266
-0.000653	-0.164036	-39.659280	
0.85918	-0.153733	-39.521119	-0.673266
-0.000653	-0.159649	-25.722487	
1.00000	-0.153733	-39.521119	-0.673266
-0.000653	-0.535844	-16.037802	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	9.574021	20.163835	1.446275
0.003563	1.549423	46.675999	
0.57753	9.574021	20.163835	1.446275
0.003563	0.945814	39.595436	
0.71835	9.574021	20.163835	1.446275
0.003563	0.343359	38.779599	
0.85918	9.574021	20.163835	1.446275
0.003563	0.200685	57.107922	
1.00000	9.574021	20.163835	1.446275
0.003563	0.652230	83.316511	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-2.147547	-106.038699	-1.086730
-0.002907	-1.173414	-117.605312	
0.57753	-2.147547	-106.038699	-1.086730
-0.002907	-0.717855	-74.316399	
0.71835	-2.147547	-106.038699	-1.086730
-0.002907	-0.262675	-40.514736	
0.85918	-2.147547	-106.038699	-1.086730
-0.002907	-0.274516	-21.417900	
1.00000	-2.147547	-106.038699	-1.086730
-0.002907	-0.881395	-8.669476	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	13.197736	22.291465	2.215114
0.003575	2.380122	47.421533	
0.57753	13.197736	22.291465	2.215114
0.003575	1.753752	39.284965	
0.71835	13.197736	22.291465	2.215114
0.003575	0.528499	36.774924	
0.85918	13.197736	22.291465	2.215114
0.003575	0.317994	51.813091	
1.00000	13.197736	22.291465	2.215114
0.003575	1.048161	81.552179	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-2.172454	-124.736925	-1.750779
-0.003433	-1.890684	-151.954654	
0.57753	-2.172454	-124.736925	-1.750779
-0.003433	-1.156792	-100.696947	
0.71835	-2.172454	-124.736925	-1.750779
-0.003433	-0.424098	-58.939711	
0.85918	-2.172454	-124.736925	-1.750779
-0.003433	-0.409383	-32.095849	
1.00000	-2.172454	-124.736925	-1.750779
-0.003433	-1.338890	-16.568105	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3468

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	11.914823	51.045227	2.238072
0.003083	2.410367	87.568862	
0.57753	11.914823	51.045227	2.238072
0.003083	1.473301	67.261344	
0.71835	11.914823	51.045227	2.238072
0.003083	0.536857	50.325579	
0.85918	11.914823	51.045227	2.238072
0.003083	0.320384	46.504921	
1.00000	11.914823	51.045227	2.238072
0.003083	1.062071	68.634853	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-6.409771	-118.305815	-1.774079
-0.002677	-1.914616	-150.635127	
0.57753	-6.409771	-118.305815	-1.774079
-0.002677	-1.170913	-101.863772	
0.71835	-6.409771	-118.305815	-1.774079
-0.002677	-0.427726	-59.444574	
0.85918	-6.409771	-118.305815	-1.774079
-0.002677	-0.404829	-27.518304	
1.00000	-6.409771	-118.305815	-1.774079
-0.002677	-1.344602	-21.090327	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	1.467117	71.302914	0.670950
0.001307	0.726377	95.854552	
0.57753	1.467117	71.302914	0.670950
0.001307	0.445014	66.159001	
0.71835	1.467117	71.302914	0.670950
0.001307	0.163532	36.637088	
0.85918	1.467117	71.302914	0.670950
0.001307	0.098244	8.259727	
1.00000	1.467117	71.302914	0.670950
0.001307	0.325089	3.353221	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-8.676680	-11.105275	-0.540797
-0.000452	-0.581733	-22.886478	
0.57753	-8.676680	-11.105275	-0.540797
-0.000452	-0.355013	-18.397764	
0.71835	-8.676680	-11.105275	-0.540797
-0.000452	-0.128084	-14.063314	
0.85918	-8.676680	-11.105275	-0.540797
-0.000452	-0.116559	-10.678509	
1.00000	-8.676680	-11.105275	-0.540797
-0.000452	-0.398069	-27.764306	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	5.947658	87.422826	1.109726
0.006462	1.184945	136.304721	
0.57753	5.947658	87.422826	1.109726
0.006462	0.723883	101.079554	
0.71835	5.947658	87.422826	1.109726
0.006462	0.264929	73.118634	
0.85918	5.947658	87.422826	1.109726
0.006462	0.172803	70.655155	
1.00000	5.947658	87.422826	1.109726
0.006462	0.533986	93.298658	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-11.165197	-97.773675	-0.877694
-0.003855	-0.942354	-86.099687	
0.57753	-11.165197	-97.773675	-0.877694
-0.003855	-0.574371	-46.384358	
0.71835	-11.165197	-97.773675	-0.877694
-0.003855	-0.208440	-18.345681	
0.85918	-11.165197	-97.773675	-0.877694
-0.003855	-0.219531	-9.617618	
1.00000	-11.165197	-97.773675	-0.877694
-0.003855	-0.684255	-25.785940	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3469

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	8.539731	82.518054	1.698189
0.004912	1.823640	128.445349	
0.57753	8.539731	82.518054	1.698189
0.004912	1.114547	95.090880	
0.71835	8.539731	82.518054	1.698189
0.004912	0.406539	67.822202	
0.85918	8.539731	82.518054	1.698189
0.004912	0.242013	61.249406	
1.00000	8.539731	82.518054	1.698189
0.004912	0.784079	80.690589	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-10.257215	-105.759427	-1.302901
-0.003123	-1.404107	-112.629456	
0.57753	-10.257215	-105.759427	-1.302901
-0.003123	-0.858018	-69.326873	
0.71835	-10.257215	-105.759427	-1.302901
-0.003123	-0.312980	-35.385012	
0.85918	-10.257215	-105.759427	-1.302901
-0.003123	-0.316871	-17.123456	
1.00000	-10.257215	-105.759427	-1.302901
-0.003123	-1.029139	-24.038863	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	11.902913	71.887674	2.164274
0.004316	2.327592	111.403928	
0.57753	11.902913	71.887674	2.164274
0.004316	1.422570	82.313515	
0.71835	11.902913	71.887674	2.164274
0.004316	0.518181	58.307809	
0.85918	11.902913	71.887674	2.164274
0.004316	0.308973	51.404572	
1.00000	11.902913	71.887674	2.164274
0.004316	1.015218	71.424563	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-8.724911	-116.077796	-1.692726
-0.003261	-1.826148	-144.911686	
0.57753	-8.724911	-116.077796	-1.692726
-0.003261	-1.116558	-97.174862	
0.71835	-8.724911	-116.077796	-1.692726
-0.003261	-0.407969	-58.056755	
0.85918	-8.724911	-116.077796	-1.692726
-0.003261	-0.397392	-32.360592	
1.00000	-8.724911	-116.077796	-1.692726
-0.003261	-1.305483	-31.463418	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	9.206695	60.241270	1.448273
0.006083	1.562072	103.767022	
0.57753	9.206695	60.241270	1.448273
0.006083	0.956941	79.459426	
0.71835	9.206695	60.241270	1.448273
0.006083	0.349758	59.659592	
0.85918	9.206695	60.241270	1.448273
0.006083	0.189930	66.172865	
1.00000	9.206695	60.241270	1.448273
0.006083	0.616230	83.712252	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-7.357158	-111.393353	-1.030631
-0.004197	-1.112012	-124.710437	
0.57753	-7.357158	-111.393353	-1.030631
-0.004197	-0.679957	-78.594722	
0.71835	-7.357158	-111.393353	-1.030631
-0.004197	-0.247769	-46.689406	
0.85918	-7.357158	-111.393353	-1.030631
-0.004197	-0.263414	-32.576878	
1.00000	-7.357158	-111.393353	-1.030631
-0.004197	-0.864479	-26.743271	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3470

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	13.197736	87.422826	2.414289
0.006462	2.605237	136.304721	
0.57753	13.197736	87.422826	2.414289
0.006462	1.592857	101.079554	
0.71835	13.197736	87.422826	2.414289
0.006462	0.579677	73.118634	
0.85918	13.197736	87.422826	2.414289
0.006462	0.347253	70.655155	
1.00000	13.197736	87.422826	2.414289
0.006462	1.171600	93.298658	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43670	-11.165197	-128.044710	-1.964655
-0.003855	-2.122906	-157.326865	
0.57753	-11.165197	-128.044710	-1.964655
-0.003855	-1.299364	-104.689612	
0.71835	-11.165197	-128.044710	-1.964655
-0.003855	-0.475690	-63.265635	
0.85918	-11.165197	-128.044710	-1.964655
-0.003855	-0.428761	-38.659728	
1.00000	-11.165197	-128.044710	-1.964655
-0.003855	-1.441549	-31.463418	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43670	13.197736	87.422826	2.414289
0.006462	2.605237	136.304721	
0.57753	13.197736	87.422826	2.414289
0.006462	1.592857	101.079554	
0.71835	13.197736	87.422826	2.414289
0.006462	0.579677	73.118634	
0.85918	13.197736	87.422826	2.414289

```
 0.006462    0.347253   70.655155
 1.00000    13.197736   87.422826    2.414289
 0.006462    1.171600   93.298658

COMB      CAR ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43670  -11.165197 -128.044710   -1.964655
-0.004197   -2.122906 -157.326865
0.57753  -11.165197 -128.044710   -1.964655
-0.004197   -1.299364 -104.689612
0.71835  -11.165197 -128.044710   -1.964655
-0.004197   -0.475690  -63.265635
0.85918  -11.165197 -128.044710   -1.964655
-0.004197   -0.428761  -38.659728
1.00000  -11.165197 -128.044710   -1.964655
-0.004197   -1.441549  -31.463418

COMB  DESIGN ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43670    13.197736   87.422826    2.414289
 0.006462   2.605237  136.304721
0.57753    13.197736   87.422826    2.414289
 0.006462   1.592857  101.079554
0.71835    13.197736   87.422826    2.414289
 0.006462   0.579677   73.118634
0.85918    13.197736   87.422826    2.414289
 0.006462   0.347253   70.655155
1.00000    13.197736   87.422826    2.414289
 0.006462   1.171600   93.298658

COMB  DESIGN ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43670  -11.165197 -128.044710   -1.964655
-0.004197   -2.122906 -157.326865
0.57753  -11.165197 -128.044710   -1.964655
-0.004197   -1.299364 -104.689612
0.71835  -11.165197 -128.044710   -1.964655
-0.004197   -0.475690  -63.265635
0.85918  -11.165197 -128.044710   -1.964655
-0.004197   -0.428761  -38.659728
1.00000  -11.165197 -128.044710   -1.964655
-0.004197   -1.441549  -31.463418
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3471

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      329 ================== LENGTH
=     2.977871

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    2.589302    3.166685    0.723105
0.000400    0.431728    8.118198
0.14086    2.589302    3.166685    0.723105
0.000400    0.128410   16.478352
0.28172    2.589302    3.166685    0.723105
0.000400    0.130734   24.917055
0.42258    2.589302    3.166685    0.723105
0.000400    0.355617   33.389359
0.56345    2.589302    3.166685    0.723105
0.000400    0.580500   41.876153

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.817506  -20.256233   -0.536114
-0.000755   -0.319031   -9.064124
0.14086   -0.817506  -20.256233   -0.536114
-0.000755   -0.094154   -8.114321
0.28172   -0.817506  -20.256233   -0.536114
-0.000755   -0.174930   -7.506132
0.42258   -0.817506  -20.256233   -0.536114
-0.000755   -0.478241   -7.138138
0.56345   -0.817506  -20.256233   -0.536114
-0.000755   -0.781552   -6.985172

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    6.132143    6.299423    1.214114
0.000726    0.724078   13.633648
0.14086    6.132143    6.299423    1.214114
0.000726    0.214788   28.338399
0.28172    6.132143    6.299423    1.214114
0.000726    0.215396   44.146634
0.42258    6.132143    6.299423    1.214114
0.000726    0.586306   60.787582
0.56345    6.132143    6.299423    1.214114
0.000726    0.957210   77.784924

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.647331  -40.993364   -0.884223
-0.001475   -0.526408  -26.741683
0.14086   -0.647331  -40.993364   -0.884223
-0.001475   -0.155678  -21.620257
0.28172   -0.647331  -40.993364   -0.884223
-0.001475   -0.295066  -17.387146
0.42258   -0.647331  -40.993364   -0.884223
-0.001475   -0.804128  -14.205501
0.56345   -0.647331  -40.993364   -0.884223
-0.001475   -1.313156  -12.794766

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    6.855124   20.101909    1.433993
 0.000504   0.853031   27.177287
0.14086    6.855124   20.101909    1.433993
 0.000504   0.251476   41.657920
0.28172    6.855124   20.101909    1.433993
 0.000504   0.248159   58.190867
0.42258    6.855124   20.101909    1.433993
 0.000504   0.677616   80.920393
0.56345    6.855124   20.101909    1.433993
 0.000504   1.107065  103.930342

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -1.643344  -55.206994   -1.023795
-0.001714   -0.610731  -17.997038
0.14086   -1.643344  -55.206994   -1.023795
-0.001714   -0.181100  -15.368214
0.28172   -1.643344  -55.206994   -1.023795
-0.001714   -0.350035  -17.030137
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3472

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
0.42258   -1.643344  -55.206994   -1.023795
-0.001714   -0.951538  -21.186218
0.56345   -1.643344  -55.206994   -1.023795
-0.001714   -1.553043  -26.297358

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    7.098421   58.303745    1.402470
 0.002928   0.848759   78.870402
0.14086    7.098421   58.303745    1.402470
 0.002928   0.261000   88.140789
0.28172    7.098421   58.303745    1.402470
 0.002928   0.249790   99.091438
0.42258    7.098421   58.303745    1.402470
 0.002928   0.680129  126.618618
0.56345    7.098421   58.303745    1.402470
 0.002928   1.110429  158.598824

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -5.172966  -77.161628   -1.025845
-0.004339   -0.610810  -17.606040
0.14086   -5.172966  -77.161628   -1.025845
-0.004339   -0.184290  -19.616132
0.28172   -5.172966  -77.161628   -1.025845
-0.004339   -0.339011  -25.305871
0.42258   -5.172966  -77.161628   -1.025845
-0.004339   -0.922451  -33.923872
0.56345   -5.172966  -77.161628   -1.025845
-0.004339   -1.506065  -53.240759

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    3.881089    2.529490    0.509870
0.000104    0.302382    6.295500
0.14086    3.881089    2.529490    0.509870
0.000104    0.088449   12.569433
0.28172    3.881089    2.529490    0.509870
0.000104    0.081987   21.463062
0.42258    3.881089    2.529490    0.509870
0.000104    0.223690   31.520501
0.56345    3.881089    2.529490    0.509870
0.000104    0.365369   41.725450

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.160720  -24.809362   -0.337740
-0.000657   -0.201347  -17.274862
0.14086   -0.160720  -24.809362   -0.337740
-0.000657   -0.060172  -13.048062
0.28172   -0.160720  -24.809362   -0.337740
-0.000657   -0.125382  -10.565984
0.42258   -0.160720  -24.809362   -0.337740
-0.000657   -0.339306   -8.942245
0.56345   -0.160720  -24.809362   -0.337740
-0.000657   -0.553156   -8.042028

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    4.690739   62.151348    0.845908
 0.003141   0.520206   79.947140
0.14086    4.690739   62.151348    0.845908
 0.003141   0.166032   67.971255
0.28172    4.690739   62.151348    0.845908
 0.003141   0.141199   58.216173
0.42258    4.690739   62.151348    0.845908
 0.003141   0.386334   70.968694
0.56345    4.690739   62.151348    0.845908
 0.003141   0.631471   89.780914

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -4.460892  -46.113430   -0.584400
-0.004829   -0.349077   -9.002210
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3473

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
0.14086   -4.460892  -46.113430   -0.584400
-0.004829   -0.109230   -7.777302
0.28172   -4.460892  -46.113430   -0.584400
-0.004829   -0.204440  -11.094771
0.42258   -4.460892  -46.113430   -0.584400
-0.004829   -0.552667  -18.040428
0.56345   -4.460892  -46.113430   -0.584400
-0.004829   -0.901296  -39.504544

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    6.697463   58.149555    1.322469
 0.003129   0.802752   77.194880
0.14086    6.697463   58.149555    1.322469
 0.003129   0.248626   73.528482
0.28172    6.697463   58.149555    1.322469
 0.003129   0.227371   71.891373
0.42258    6.697463   58.149555    1.322469
 0.003129   0.620658   90.643435
0.56345    6.697463   58.149555    1.322469
 0.003129   1.013949  114.815128

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -4.225843  -58.783946   -0.937596
-0.004943   -0.559217  -16.829551
0.14086   -4.225843  -58.783946   -0.937596
-0.004943   -0.170634  -14.694021
0.28172   -4.225843  -58.783946   -0.937596
-0.004943   -0.320264  -16.626316
0.42258   -4.225843  -58.783946   -0.937596
-0.004943   -0.869198  -21.681160
0.56345   -4.225843  -58.783946   -0.937596
-0.004943   -1.418146  -40.032029

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    6.986833   62.613315    1.313582
 0.002724   0.791996   66.607078
0.14086    6.986833   62.613315    1.313582
 0.002724   0.241341   76.936712
0.28172    6.986833   62.613315    1.313582
 0.002724   0.230464   89.369336
0.42258    6.986833   62.613315    1.313582
 0.002724   0.627174  116.327046
0.56345    6.986833   62.613315    1.313582
 0.002724   1.024707  146.914435

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -6.062993  -73.733121   -0.947709
-0.003754   -0.565425  -19.463200
0.14086   -6.062993  -73.733121   -0.947709
-0.003754   -0.170938  -25.899841
0.28172   -6.062993  -73.733121   -0.947709
-0.003754   -0.318860  -36.042561
0.42258   -6.062993  -73.733121   -0.947709
-0.003754   -0.866108  -48.775935
0.56345   -6.062993  -73.733121   -0.947709
-0.003754   -1.413317  -70.473760

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    1.184798   43.668422    0.406651
 0.001207   0.242357    2.296570
0.14086    1.184798   43.668422    0.406651
 0.001207   0.071782    3.302187
0.28172    1.184798   43.668422    0.406651
 0.001207   0.080469    4.561948
0.42258    1.184798   43.668422    0.406651
 0.001207   0.219767    5.901462
0.56345    1.184798   43.668422    0.406651
 0.001207   0.359064    7.361562
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3474

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -5.337976   -7.046280   -0.332080
-0.000467   -0.189723  -12.759469
0.14086   -5.337976   -7.046280   -0.332080
-0.000467   -0.058812  -30.292717
0.28172   -5.337976   -7.046280   -0.332080
-0.000467   -0.098812  -48.149261
0.42258   -5.337976   -7.046280   -0.332080
-0.000467   -0.269385  -66.264260
0.56345   -5.337976   -7.046280   -0.332080
-0.000467   -0.439953  -84.455305

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    2.207868  108.650685    0.680991
 0.005004   0.428055   83.920386
0.14086    2.207868  108.650685    0.680991
 0.005004   0.143188   63.507316
0.28172    2.207868  108.650685    0.680991
 0.005004   0.130815   48.928314
0.42258    2.207868  108.650685    0.680991
 0.005004   0.356200   54.109559
0.56345    2.207868  108.650685    0.680991
 0.005004   0.581578   67.799072

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000  -10.381926  -33.861862   -0.537295
-0.005330   -0.319934  -13.715981
0.14086  -10.381926  -33.861862   -0.537295
-0.005330   -0.101207  -32.707319
0.28172  -10.381926  -33.861862   -0.537295
-0.005330   -0.161411  -52.673155
0.42258  -10.381926  -33.861862   -0.537295
-0.005330   -0.439332  -76.389878
0.56345  -10.381926  -33.861862   -0.537295
-0.005330   -0.717192 -117.294945

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    4.542206   93.401203    0.999496
 0.003720   0.609229   68.353222
0.14086    4.542206   93.401203    0.999496
 0.003720   0.190517   60.655395
0.28172    4.542206   93.401203    0.999496
 0.003720   0.176915   57.112456
0.42258    4.542206   93.401203    0.999496
 0.003720   0.484192   72.963161
0.56345    4.542206   93.401203    0.999496
 0.003720   0.791475   93.780130

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -8.989960  -50.691602   -0.732555
-0.004360   -0.437658  -13.231775
0.14086   -8.989960  -50.691602   -0.732555
-0.004360   -0.134779  -30.582443
0.28172   -8.989960  -50.691602   -0.732555
-0.004360   -0.241739  -52.194060
0.42258   -8.989960  -50.691602   -0.732555
-0.004360   -0.655696  -76.540932
0.56345   -8.989960  -50.691602   -0.732555
-0.004360   -1.069604 -112.626543

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    6.404352   79.402166    1.279821
 0.003311   0.773542   60.151025
0.14086    6.404352   79.402166    1.279821
 0.003311   0.237123   59.984479
0.28172    6.404352   79.402166    1.279821
 0.003311   0.226576   63.612246
0.42258    6.404352   79.402166    1.279821
 0.003311   0.680801   83.655161
0.56345    6.404352   79.402166    1.279821
 0.003311   1.011308  107.361989
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3475

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -7.662086  -58.186714   -0.935387
-0.004108   -0.558153  -22.799836
0.14086   -7.662086  -58.186714   -0.935387
-0.004108   -0.169397  -34.752831
0.28172   -7.662086  -58.186714   -0.935387
-0.004108   -0.310455  -50.409202
0.42258   -7.662086  -58.186714   -0.935387
-0.004108   -0.842920  -68.776486
0.56345   -7.662086  -58.186714   -0.935387
-0.004108   -1.375339  -97.565863

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    4.542123    6.438847    1.160998
0.000373   0.691790   11.433982
0.14086    4.542123    6.438847    1.160998
0.000373   0.204093   23.577981
0.28172    4.542123    6.438847    1.160998
0.000373   0.245429   36.380573
0.42258    4.542123    6.438847    1.160998
0.000373   0.664790   49.437519
0.56345    4.542123    6.438847    1.160998
0.000373   1.084228   62.638226

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.951779  -32.200014   -1.000005
-0.000838   -0.193675   -9.580595
0.14086   -0.951779  -32.200014   -1.000005
-0.000838   -0.174201  -10.162720
0.28172   -0.951779  -32.200014   -1.000005
-0.000838   -0.281020  -11.487840
0.42258   -0.951779  -32.200014   -1.000005
-0.000838   -0.768414  -13.135241
0.56345   -0.951779  -32.200014   -1.000005
-0.000838   -1.255615  -15.023868

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   10.650563   10.027581    1.954677
 0.000615   1.160489   17.308242
0.14086   10.650563   10.027581    1.954677
 0.000615   0.339603   40.421983
0.28172   10.650563   10.027581    1.954677
 0.000615   0.409673   65.721617
0.42258   10.650563   10.027581    1.954677
 0.000615   1.116572   92.066875
0.56345   10.650563   10.027581    1.954677
 0.000615   1.823496  119.327235

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.999228  -67.902371   -1.685566
-0.001502   -1.004802  -26.726878
0.14086   -0.999228  -67.902371   -1.685566
-0.001502   -0.297996  -23.017713
0.28172   -0.999228  -67.902371   -1.685566
-0.001502   -0.477730  -21.787634
0.42258   -0.999228  -67.902371   -1.685566
-0.001502   -1.298184  -22.499490
0.56345   -0.999228  -67.902371   -1.685566
-0.001502   -2.118258  -24.426073

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   11.380099   21.350429    2.346045
 0.000467   1.390799   37.398041
0.14086   11.380099   21.350429    2.346045
 0.000467   0.405301   64.614267
0.28172   11.380099   21.350429    2.346045
 0.000467   0.480774   95.049873
0.42258   11.380099   21.350429    2.346045
 0.000467   1.312688  128.619558
0.56345   11.380099   21.350429    2.346045
 0.000467   2.144101  163.103633
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3476

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -1.897499  -84.850002   -1.982385
-0.001699   -1.182255  -19.079596
0.14086   -1.897499  -84.850002   -1.982385
-0.001699   -0.350145  -17.380838
0.28172   -1.897499  -84.850002   -1.982385
-0.001699   -0.574636  -21.593408
0.42258   -1.897499  -84.850002   -1.982385
-0.001699   -1.559655  -27.665379
0.56345   -1.897499  -84.850002   -1.982385
-0.001699   -2.544092  -34.413235

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   10.933228   59.475441    2.319166
 0.002208   1.388160   82.283716
0.14086   10.933228   59.475441    2.319166
 0.002208   0.414373  104.185066
0.28172   10.933228   59.475441    2.319166
 0.002208   0.465489  129.267340
0.42258   10.933228   59.475441    2.319166
 0.002208   1.267441  164.634805
0.56345   10.933228   59.475441    2.319166
 0.002208   2.069766  205.505556

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -6.204754 -101.127628   -1.913158
-0.003756   -1.140408  -18.561345
0.14086   -6.204754 -101.127628   -1.913158
-0.003756   -0.341873  -22.922534
0.28172   -6.204754 -101.127628   -1.913158
-0.003756   -0.563945  -32.629933
0.42258   -6.204754 -101.127628   -1.913158
-0.003756   -1.533687  -45.454025
0.56345   -6.204754 -101.127628   -1.913158
-0.003756   -2.503886  -67.896600

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    6.276991    3.442513    0.835498
8.28E-05   0.492428   7.962811
0.14086    6.276991    3.442513    0.835498
8.28E-05   0.141469  20.019650
0.28172    6.276991    3.442513    0.835498
8.28E-05   0.168748  34.422817
0.42258    6.276991    3.442513    0.835498
8.28E-05   0.464476  49.545248
0.56345    6.276991    3.442513    0.835498
8.28E-05   0.760155  65.176246

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.198582  -39.120997   -0.705005
-0.000637   -0.422902   -16.039175
0.14086   -0.198582  -39.120997   -0.705005
-0.000637   -0.127203   -11.998231
0.28172   -0.198582  -39.120997   -0.705005
-0.000637   -0.207596   -9.921323
0.42258   -0.198582  -39.120997   -0.705005
-0.000637   -0.558411   -9.431475
0.56345   -0.198582  -39.120997   -0.705005
-0.000637   -0.908941   -9.569532

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    7.221050   56.149984    1.383109
 0.002399   0.835139   83.373282
0.14086    7.221050   56.149984    1.383109
 0.002399   0.254645   83.685770
0.28172    7.221050   56.149984    1.383109
 0.002399   0.268431   86.573017
0.42258    7.221050   56.149984    1.383109
 0.002399   0.734871  104.166817
0.56345    7.221050   56.149984    1.383109
 0.002399   1.202175  129.569596
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3477

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -4.474597  -64.334473   -1.114429
-0.004305   -0.667896   -8.663539
0.14086   -4.474597  -64.334473   -1.114429
-0.004305   -0.206638   -7.330782
0.28172   -4.474597  -64.334473   -1.114429
-0.004305   -0.337090  -10.930558
0.42258   -4.474597  -64.334473   -1.114429
-0.004305   -0.912123  -18.154345
0.56345   -4.474597  -64.334473   -1.114429
-0.004305   -1.488054  -39.838055

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000   11.085010   54.857891    2.140309
 0.002431   1.283517   81.611973
0.14086   11.085010   54.857891    2.140309
 0.002431   0.385007   92.746460
0.28172   11.085010   54.857891    2.140309
 0.002431   0.430242  106.650708
0.42258   11.085010   54.857891    2.140309
```

```
 0.002431    1.175090  134.060533
0.56345   11.085010   54.857891    2.140309
 0.002431    1.920756  168.548581

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -4.348151  -86.919756   -1.778099
-0.004500   -1.062902   -16.566761
0.14086   -4.348151  -86.919756   -1.778099
-0.004500   -0.327705   -15.439833
0.28172   -4.348151  -86.919756   -1.778099
-0.004500   -0.522004   -19.008473
0.42258   -4.348151  -86.919756   -1.778099
-0.004500   -1.415294   -25.867547
0.56345   -4.348151  -86.919756   -1.778099
-0.004500   -2.309408   -45.929128

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   10.726192   70.684249    2.192879
 0.002192    1.309519   68.671805
0.14086   10.726192   70.684249    2.192879
 0.002192    0.388535   91.268698
0.28172   10.726192   70.684249    2.192879
 0.002192    0.432392  116.590302
0.42258   10.726192   70.684249    2.192879
 0.002192    1.180232  150.869605
0.56345   10.726192   70.684249    2.192879
 0.002192    1.928317  189.622315

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -7.812700  -95.950726   -1.783684
-0.003262   -1.064603   -21.070745
0.14086   -7.812700  -95.950726   -1.783684
-0.003262   -0.319664   -33.249099
0.28172   -7.812700  -95.950726   -1.783684
-0.003262   -0.534788   -49.961527
0.42258   -7.812700  -95.950726   -1.783684
-0.003262   -1.452202   -69.100896
0.56345   -7.812700  -95.950726   -1.783684
-0.003262   -2.369979   -96.373511

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.585355   71.556329    0.697505
 0.001331    0.415691    3.344950
0.14086    1.585355   71.556329    0.697505
 0.001331    0.122097    5.822577
0.28172    1.585355   71.556329    0.697505
 0.001331    0.127399    8.430014
0.42258    1.585355   71.556329    0.697505
 0.001331    0.346051   11.491069
0.56345    1.585355   71.556329    0.697505
 0.001331    0.564755   15.862545
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3478

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -8.804808  -11.364447   -0.521198
-0.000428   -0.309597   -27.735301
0.14086   -8.804808  -11.364447   -0.521198
-0.000428   -0.090979   -56.504414
0.28172   -8.804808  -11.364447   -0.521198
-0.000428   -0.168442   -85.401046
0.42258   -8.804808  -11.364447   -0.521198
-0.000428   -0.461282  -114.948039
0.56345   -8.804808  -11.364447   -0.521198
-0.000428   -0.753932  -144.788184

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.812163  139.044329    1.146063
 0.004659    0.701986   93.339911
0.14086    2.812163  139.044329    1.146063
 0.004659    0.226842   76.827116
0.28172    2.812163  139.044329    1.146063
 0.004659    0.206131   63.735056
0.42258    2.812163  139.044329    1.146063
 0.004659    0.556815   67.944702
0.56345    2.812163  139.044329    1.146063
 0.004659    0.909066   82.954965

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -14.626900  -39.499624   -0.840101
-0.005403   -0.500416   -25.747570
0.14086  -14.626900  -39.499624   -0.840101
-0.005403   -0.157587   -56.081362
0.28172  -14.626900  -39.499624   -0.840101
-0.005403   -0.271597   -87.891510
0.42258  -14.626900  -39.499624   -0.840101
-0.005403   -0.744311  -124.991011
0.56345  -14.626900  -39.499624   -0.840101
-0.005403   -1.218745  -181.826114

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    6.268422  119.685530    1.688580
 0.003609    1.019725   80.732296
0.14086    6.268422  119.685530    1.688580
 0.003609    0.310444   80.842223
0.28172    6.268422  119.685530    1.688580
 0.003609    0.315041   84.312282
0.42258    6.268422  119.685530    1.688580
 0.003609    0.858674  102.315434
0.56345    6.268422  119.685530    1.688580
 0.003609    1.403266  127.836405

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.756301  -63.644383   -1.298438
-0.004503   -0.775495   -24.004004
0.14086  -12.756301  -63.644383   -1.298438
-0.004503   -0.236282   -51.599410
0.28172  -12.756301  -63.644383   -1.298438
-0.004503   -0.408171   -83.504245
0.42258  -12.756301  -63.644383   -1.298438
-0.004503   -1.111328  -118.041383
0.56345  -12.756301  -63.644383   -1.298438
-0.004503   -1.815227  -167.128262

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   10.022827  102.715897    2.122689
 0.003199    1.227367   71.467735
0.14086   10.022827  102.715897    2.122689
 0.003199    0.381695   81.063114
0.28172   10.022827  102.715897    2.122689
 0.003199    0.412565   94.345365
0.42258   10.022827  102.715897    2.122689
 0.003199    1.126501  120.025365
0.56345   10.022827  102.715897    2.122689
 0.003199    1.841189  152.278357
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3479

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.854764  -80.925694   -1.704019
-0.004251   -1.018162   -31.435419
0.14086  -10.854764  -80.925694   -1.704019
-0.004251   -0.708603   -52.615929
0.28172  -10.854764  -80.925694   -1.704019
-0.004251   -0.516353   -77.951907
0.42258  -10.854764  -80.925694   -1.704019
-0.004251   -1.402617  -106.305718
0.56345  -10.854764  -80.925694   -1.704019
-0.004251   -2.289536  -147.057785

COMB     DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.098421  108.650685    1.433993
 0.005004    0.853031   83.920386
0.14086    7.098421  108.650685    1.433993
 0.005004    0.261000   88.140789
0.28172    7.098421  108.650685    1.433993
 0.005004    0.249790   99.091438
0.42258    7.098421  108.650685    1.433993
 0.005004    0.680129  126.618618
0.56345    7.098421  108.650685    1.433993
 0.005004    1.110429  158.598824

COMB     DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.381926  -77.161628   -1.025845
-0.005330   -0.610810   -26.746683
0.14086  -10.381926  -77.161628   -1.025845
-0.005330   -0.184290   -34.752831
0.28172  -10.381926  -77.161628   -1.025845
-0.005330   -0.350035   -52.673155
0.42258  -10.381926  -77.161628   -1.025845
-0.005330   -0.951538   -76.540932
0.56345  -10.381926  -77.161628   -1.025845
-0.005330   -1.553043  -117.294945

COMB     DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.380099  139.044329    2.346045
 0.004659    1.390799   93.339911
0.14086   11.380099  139.044329    2.346045
 0.004659    0.414373  104.185066
0.28172   11.380099  139.044329    2.346045
 0.004659    0.480774  129.267340
0.42258   11.380099  139.044329    2.346045
 0.004659    1.312688  164.634805
0.56345   11.380099  139.044329    2.346045
 0.004659    2.144101  205.505556

COMB     DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -14.626900  -101.127628   -1.982385
-0.005403   -1.182255   -31.435419
0.14086  -14.626900  -101.127628   -1.982385
-0.005403   -0.350145   -56.504414
0.28172  -14.626900  -101.127628   -1.982385
-0.005403   -0.574636   -87.891510
0.42258  -14.626900  -101.127628   -1.982385
-0.005403   -1.559655  -124.991011
0.56345  -14.626900  -101.127628   -1.982385
-0.005403   -2.544092  -181.826114

COMB    CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.380099  139.044329    2.346045
 0.005004    1.390799   93.339911
0.14086   11.380099  139.044329    2.346045
 0.005004    0.414373  104.185066
0.28172   11.380099  139.044329    2.346045
 0.005004    0.480774  129.267340
0.42258   11.380099  139.044329    2.346045
 0.005004    1.312688  164.634805
0.56345   11.380099  139.044329    2.346045
 0.005004    2.144101  205.505556
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3480

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB    CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -14.626900  -101.127628   -1.982385
-0.005403   -1.182255   -31.435419
0.14086  -14.626900  -101.127628   -1.982385
-0.005403   -0.350145   -56.504414
0.28172  -14.626900  -101.127628   -1.982385
-0.005403   -0.574636   -87.891510
0.42258  -14.626900  -101.127628   -1.982385
-0.005403   -1.559655  -124.991011
0.56345  -14.626900  -101.127628   -1.982385
-0.005403   -2.544092  -181.826114

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.380099  139.044329    2.346045
 0.005004    1.390799   93.339911
0.14086   11.380099  139.044329    2.346045
 0.005004    0.414373  104.185066
0.28172   11.380099  139.044329    2.346045
 0.005004    0.480774  129.267340
0.42258   11.380099  139.044329    2.346045
 0.005004    1.312688  164.634805
0.56345   11.380099  139.044329    2.346045
 0.005004    2.144101  205.505556

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -14.626900  -101.127628   -1.982385
-0.005403   -1.182255   -31.435419
0.14086  -14.626900  -101.127628   -1.982385
-0.005403   -0.350145   -56.504414
0.28172  -14.626900  -101.127628   -1.982385
-0.005403   -0.574636   -87.891510
0.42258  -14.626900  -101.127628   -1.982385
-0.005403   -1.559655  -124.991011
0.56345  -14.626900  -101.127628   -1.982385
-0.005403   -2.544092  -181.826114

ELEM     330 ================== LENGTH
=     2.977081

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    2.151937    3.183984    0.729434
0.000783    0.764270    4.717710
0.57750    2.151937    3.183984    0.729434
0.000783    0.458440    3.383739
0.71833    2.151937    3.183984    0.729434
0.000783    0.152610    2.052871
0.85917    2.151937    3.183984    0.729434
0.000783    0.117934    1.300219
1.00000    2.151937    3.183984    0.729434
0.000783    0.352390    3.914183

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -1.386490  -18.507624   -0.559209
-0.000780   -0.585449   -28.593601
0.57750   -1.386490  -18.507624   -0.559209
-0.000780   -0.350989   -20.905546
0.71833   -1.386490  -18.507624   -0.559209
-0.000780   -0.116528   -13.251423
0.85917   -1.386490  -18.507624   -0.559209
-0.000780   -0.153233   -5.880630
1.00000   -1.386490  -18.507624   -0.559209
-0.000780   -0.459058   -1.392597

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    7.555266    4.820391    1.209251
0.001407    1.267287    6.965138
0.57750    7.555266    4.820391    1.209251
0.001407    0.760284    4.965973
0.71833    7.555266    4.820391    1.209251
0.001407    0.253260    3.043781
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3481

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.85917    7.555266    4.820391    1.209251
0.001407    0.194547    1.935370
1.00000    7.555266    4.820391    1.209251
0.001407    0.581519    8.485901

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -0.405417  -37.768575   -0.923262
-0.001405   -0.966667   -65.757707
0.57750   -0.405417  -37.768575   -0.923262
-0.001405   -0.579771   -50.980903
0.71833   -0.405417  -37.768575   -0.923262
-0.001405   -0.192657   -36.889123
0.85917   -0.405417  -37.768575   -0.923262
-0.001405   -0.254041   -23.995258
1.00000   -0.405417  -37.768575   -0.923262
-0.001405   -0.760965   -14.233704

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    8.076537    4.193961    1.402196
0.001030    1.469881    6.526290
0.57750    8.076537    4.193961    1.402196
0.001030    0.881982    4.769214
0.71833    8.076537    4.193961    1.402196
0.001030    0.293973    3.015183
0.85917    8.076537    4.193961    1.402196
0.001030    0.240624    2.228953
1.00000    8.076537    4.193961    1.402196
0.001030    0.720632   15.254932

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -0.276821  -47.610864   -1.144836
-0.001029   -1.199351   -69.784908
0.57750   -0.276821  -47.610864   -1.144836
-0.001029   -0.719355   -50.369610
0.71833   -0.276821  -47.610864   -1.144836
-0.001029   -0.239321   -31.341380
0.85917   -0.276821  -47.610864   -1.144836
-0.001029   -0.293706   -13.999056
1.00000   -0.276821  -47.610864   -1.144836
-0.001029   -0.881724    -7.205157

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    8.260694   15.705959    1.370082
 0.003269    1.435972   22.915305
0.57750    8.260694   15.705959    1.370082
 0.003269    0.861537   16.806485
0.71833    8.260694   15.705959    1.370082
 0.003269    0.287012   12.179079
0.85917    8.260694   15.705959    1.370082
 0.003269    0.253944   24.574504
1.00000    8.260694   15.705959    1.370082
 0.003269    0.752228   58.302363

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -2.975226  -95.822832   -1.194751
-0.003269   -1.251468   -106.795819
0.57750   -2.975226  -95.822832   -1.194751
-0.003269   -0.750544   -67.113227
0.71833   -2.975226  -95.822832   -1.194751
-0.003269   -0.249553   -30.821170
0.85917   -2.975226  -95.822832   -1.194751
-0.003269   -0.294476   -12.548682
1.00000   -2.975226  -95.822832   -1.194751
-0.003269   -0.866365    -9.635323

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    5.714468    1.073938    0.489197
0.000460    0.512979    1.481983
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3482

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.57750    5.714468    1.073938    0.489197
0.000460    0.307865    1.037268
0.71833    5.714468    1.073938    0.489197
0.000460    0.102673    0.605321
0.85917    5.714468    1.073938    0.489197
0.000460    0.081828    0.251946
1.00000    5.714468    1.073938    0.489197
0.000460    0.245655    4.664775

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -0.123884  -20.166939   -0.390635
-0.000464   -0.409472   -39.630734
0.57750   -0.123884  -20.166939   -0.390635
-0.000464   -0.245690   -32.360435
0.71833   -0.123884  -20.166939   -0.390635
-0.000464   -0.081856   -26.312214
0.85917   -0.123884  -20.166939   -0.390635
-0.000464   -0.102263   -20.436413
1.00000   -0.123884  -20.166939   -0.390635
-0.000464   -0.307437   -14.695988

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    8.005752    6.164873    0.779625
0.003037    0.817605    6.967272
0.57750    8.005752    6.164873    0.779625
0.003037    0.490731    4.905178
0.71833    8.005752    6.164873    0.779625
0.003037    0.163742    4.737536
0.85917    8.005752    6.164873    0.779625
0.003037    0.154869   26.498950
1.00000    8.005752    6.164873    0.779625
0.003037    0.453671   58.228303

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -1.547329  -80.548432   -0.721400
-0.003036   -0.756176   -81.394265
0.57750   -1.547329  -80.548432   -0.721400
-0.003036   -0.453714   -48.243553
0.71833   -1.547329  -80.548432   -0.721400
-0.003036   -0.151208   -19.637325
0.85917   -1.547329  -80.548432   -0.721400
-0.003036   -0.172796    -9.528819
1.00000   -1.547329  -80.548432   -0.721400
-0.003036   -0.496186    -9.785308

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    9.668069    7.864668    1.263754
0.003327    1.324864    9.666401
0.57750    9.668069    7.864668    1.263754
0.003327    0.795014    6.841258
0.71833    9.668069    7.864668    1.263754
0.003327    0.265060    5.728045
0.85917    9.668069    7.864668    1.263754
0.003327    0.229803   24.319530
1.00000    9.668069    7.864668    1.263754
0.003327    0.678573   55.398329

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -1.521680  -88.012602   -1.078243
-0.003319   -1.129729   -96.841681
0.57750   -1.521680  -88.012602   -1.078243
-0.003319   -0.677654   -60.501303
0.71833   -1.521680  -88.012602   -1.078243
-0.003319   -0.225538   -28.333360
0.85917   -1.521680  -88.012602   -1.078243
-0.003319   -0.273499   -13.726564
1.00000   -1.521680  -88.012602   -1.078243
-0.003319   -0.800242   -11.038276
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3483

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    7.939364   24.190489    1.294778
 0.002888    1.357067   35.038035
0.57750    7.939364   24.190489    1.294778
 0.002888    0.814195   25.252225
0.71833    7.939364   24.190489    1.294778
 0.002888    0.271173   16.638630
0.85917    7.939364   24.190489    1.294778
 0.002888    0.241024   21.848542
1.00000    7.939364   24.190489    1.294778
 0.002888    0.715189   49.518561

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -4.174295  -81.544833   -1.135973
-0.002881   -1.189931   -91.415381
0.57750   -4.174295  -81.544833   -1.135973
-0.002881   -0.713651   -57.787441
0.71833   -4.174295  -81.544833   -1.135973
-0.002881   -0.237287   -27.065479
0.85917   -4.174295  -81.544833   -1.135973
-0.002881   -0.277239   -11.601783
1.00000   -4.174295  -81.544833   -1.135973
-0.002881   -0.818167   -12.672038

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    0.281284   39.485941    0.448951
 0.000865    0.470128   55.201987
0.57750    0.281284   39.485941    0.448951
 0.000865    0.281896   38.665030
0.71833    0.281284   39.485941    0.448951
 0.000865    0.093652   22.130683
0.85917    0.281284   39.485941    0.448951
 0.000865    0.080072    5.404819
1.00000    0.281284   39.485941    0.448951
 0.000865    0.239418    1.698518

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -5.501269   -3.689697   -0.380066
-0.000877   -0.397983   -5.008668
0.57750   -5.501269   -3.689697   -0.380066
-0.000877   -0.238633   -3.477073
0.71833   -5.501269   -3.689697   -0.380066
-0.000877   -0.079280   -2.024745
0.85917   -5.501269   -3.689697   -0.380066
-0.000877   -0.094576   -0.850469
1.00000   -5.501269   -3.689697   -0.380066
-0.000877   -0.282809   -12.196269

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    2.834724   51.111987    0.690626
 0.004419    0.723352   76.362148
0.57750    2.834724   51.111987    0.690626
 0.004419    0.433784   55.805823
0.71833    2.834724   51.111987    0.690626
 0.004419    0.144077   37.555248
0.85917    2.834724   51.111987    0.690626
 0.004419    0.141693   44.525395
1.00000    2.834724   51.111987    0.690626
 0.004419    0.410475   63.831913

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43667   -8.865718  -69.608555   -0.651547
-0.004424   -0.682222   -55.696243
0.57750   -8.865718  -69.608555   -0.651547
-0.004424   -0.409048   -26.760578
0.71833   -8.865718  -69.608555   -0.651547
-0.004424   -0.135777   -3.330884
0.85917   -8.865718  -69.608555   -0.651547
-0.004424   -0.157251   -2.262736
1.00000   -8.865718  -69.608555   -0.651547
-0.004424   -0.442537   -15.867392
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3484

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43667    5.326369   41.961957    0.988149
 0.003262    1.035623   57.795840
0.57750    5.326369   41.961957    0.988149
 0.003262    0.621313   40.656866
0.71833    5.326369   41.961957    0.988149
 0.003262    0.206807   25.100467
0.85917    5.326369   41.961957    0.988149
```

```
 0.003262     0.193432    27.826641
1.00000      5.326369    41.961957     0.988149
 0.003262     0.570392    49.536841

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -6.674166   -67.265934   -0.906191
-0.003267   -0.949363   -64.064063
0.57750    -6.674166   -67.265934   -0.906191
-0.003267   -0.569426   -35.944075
0.71833    -6.674166   -67.265934   -0.906191
-0.003267   -0.189378   -11.364889
0.85917    -6.674166   -67.265934   -0.906191
-0.003267   -0.215354    -2.477589
1.00000    -6.674166   -67.265934   -0.906191
-0.003267   -0.626835   -13.882585

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     8.144734    36.568242    1.267187
 0.003188    1.328093    50.496338
0.57750     8.144734    36.568242    1.267187
 0.003188    0.796795    35.540833
0.71833     8.144734    36.568242    1.267187
 0.003188    0.265319    21.894960
0.85917     8.144734    36.568242    1.267187
 0.003188    0.231724    23.513170
1.00000     8.144734    36.568242    1.267187
 0.003188    0.686422    43.433140

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -5.649015   -69.486147   -1.090316
-0.003188   -1.142136   -77.484057
0.57750    -5.649015   -69.486147   -1.090316
-0.003188   -0.684997   -48.871513
0.71833    -5.649015   -69.486147   -1.090316
-0.003188   -0.227744   -23.527560
0.85917    -5.649015   -69.486147   -1.090316
-0.003188   -0.272437   -11.701121
1.00000    -5.649015   -69.486147   -1.090316
-0.003188   -0.801430   -18.447199

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     3.576848    7.115601    1.217101
0.000810    1.275016   10.601806
0.57750     3.576848    7.115601    1.217101
0.000810    0.764549    7.626956
0.71833     3.576848    7.115601    1.217101
0.000810    0.253721    4.659181
0.85917     3.576848    7.115601    1.217101
0.000810    0.229849    2.070252
1.00000     3.576848    7.115601    1.217101
0.000810    0.688571    6.891652

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -1.320571   -37.427898   -1.094261
-0.000836   -1.146656   -57.040224
0.57750    -1.320571   -37.427898   -1.094261
-0.000836   -0.687869   -41.375604
0.71833    -1.320571   -37.427898   -1.094261
-0.000836   -0.229051   -25.728189
0.85917    -1.320571   -37.427898   -1.094261
-0.000836   -0.254792   -10.229481
1.00000    -1.320571   -37.427898   -1.094261
-0.000836   -0.765602    -2.196335
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3485

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     13.288668   10.246414    2.024357
 0.001368    2.121145   14.764465
0.57750     13.288668   10.246414    2.024357
 0.001368    1.272160   10.482352
0.71833     13.288668   10.246414    2.024357
 0.001368    0.422509    6.281578
0.85917     13.288668   10.246414    2.024357
 0.001368    0.428081    2.680868
1.00000     13.288668   10.246414    2.024357
 0.001368    1.174206   12.438601

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -0.749454   -76.520300   -1.865612
-0.001395   -1.954684  -129.541440
0.57750    -0.749454   -76.520300   -1.865612
-0.001395   -1.172535   -97.486343
0.71833    -0.749454   -76.520300   -1.865612
-0.001395   -0.390348   -65.586847
0.85917    -0.749454   -76.520300   -1.865612
-0.001395   -0.423383   -34.392523
1.00000    -0.749454   -76.520300   -1.865612
-0.001395   -1.272952   -14.947664

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     14.190925   9.835403    2.411066
 0.001076    2.526494   15.589940
0.57750     14.190925   9.835403    2.411066
 0.001076    1.515249   11.502382
0.71833     14.190925   9.835403    2.411066
 0.001076    0.502880    7.467576
0.85917     14.190925   9.835403    2.411066
 0.001076    0.471225    6.344495
1.00000     14.190925   9.835403    2.411066
 0.001076    1.411877   28.463291

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -0.824376   -94.778549   -2.243869
-0.001104   -2.351355  -138.496322
0.57750    -0.824376   -94.778549   -2.243869
-0.001104   -1.410536   -98.803975
0.71833    -0.824376   -94.778549   -2.243869
-0.001104   -0.470116   -59.207712
0.85917    -0.824376   -94.778549   -2.243869
-0.001104   -0.503166   -23.311294
1.00000    -0.824376   -94.778549   -2.243869
-0.001104   -1.515537    -9.090850

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     13.547021   26.921449    2.376571
 0.002690    2.489096   43.506248
0.57750     13.547021   26.921449    2.376571
 0.002690    1.492311   32.595533
0.71833     13.547021   26.921449    2.376571
 0.002690    0.495443   23.883692
0.85917     13.547021   26.921449    2.376571
 0.002690    0.470699   32.691148
1.00000     13.547021   26.921449    2.376571
 0.002690    1.398543   69.557536

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -4.569760  -134.336455   -2.221302
-0.002721   -2.326753  -164.801081
0.57750    -4.569760  -134.336455   -2.221302
-0.002721   -1.395442  -108.846963
0.71833    -4.569760  -134.336455   -2.221302
-0.002721   -0.465003   -55.738813
0.85917    -4.569760  -134.336455   -2.221302
-0.002721   -0.502691   -20.311912
1.00000    -4.569760  -134.336455   -2.221302
-0.002721   -1.498931   -11.108115
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3486

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     10.286675   2.135384    0.844632
 0.000404    0.885457   2.950558
0.57750     10.286675   2.135384    0.844632
 0.000404    0.531209   2.059871
0.71833     10.286675   2.135384    0.844632
 0.000404    0.176589   1.172000
0.85917     10.286675   2.135384    0.844632
 0.000404    0.170572   0.368186
1.00000     10.286675   2.135384    0.844632
 0.000404    0.511377   7.565040

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -0.150536   -42.401278   -0.812497
-0.000395   -0.851340   -78.390865
0.57750    -0.150536   -42.401278   -0.812497
-0.000395   -0.510731   -60.632428
0.71833    -0.150536   -42.401278   -0.812497
-0.000395   -0.169930   -42.881579
0.85917    -0.150536   -42.401278   -0.812497
-0.000395   -0.175917   -25.201150
1.00000    -0.150536   -42.401278   -0.812497
-0.000395   -0.530522   -13.810625

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     12.637257   6.885932    1.380905
 0.002404    1.445602   10.313549
0.57750     12.637257   6.885932    1.380905
 0.002404    0.866394   7.793906
0.71833     12.637257   6.885932    1.380905
 0.002404    0.287565   8.215968
0.85917     12.637257   6.885932    1.380905
 0.002404    0.284628   31.496535
1.00000     12.637257   6.885932    1.380905
 0.002404    0.835006   73.099254

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -1.679900  -112.253401   -1.324769
-0.002400   -1.386871  -123.179219
0.57750    -1.679900  -112.253401   -1.324769
-0.002400   -0.831473   -76.482151
0.71833    -1.679900  -112.253401   -1.324769
-0.002400   -0.277234   -33.748454
0.85917    -1.679900  -112.253401   -1.324769
-0.002400   -0.297268   -11.779946
1.00000    -1.679900  -112.253401   -1.324769
-0.002400   -0.875037    -8.757409

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     16.616225   11.219908   2.172567
 0.002778    2.275208   16.523248
0.57750     16.616225   11.219908   2.172567
 0.002778    1.364001   12.150720
0.71833     16.616225   11.219908   2.172567
 0.002778    0.452864   10.442363
0.85917     16.616225   11.219908   2.172567
 0.002778    0.435763   29.073525
1.00000     16.616225   11.219908   2.172567
 0.002778    1.289732   70.404393

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -1.706749  -133.219507   -2.047374
-0.002757   -2.144085  -161.846319
0.57750    -1.706749  -133.219507   -2.047374
-0.002757   -1.285667  -106.165050
0.71833    -1.706749  -133.219507   -2.047374
-0.002757   -0.428298   -54.322594
0.85917    -1.706749  -133.219507   -2.047374
-0.002757   -0.461919   -21.488264
1.00000    -1.706749  -133.219507   -2.047374
-0.002757   -1.372186   -11.372318
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3487

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     13.855515   43.808765   2.243431
 0.002467    2.349902   66.112625
0.57750     13.855515   43.808765   2.243431
 0.002467    1.409051   48.043023
0.71833     13.855515   43.808765   2.243431
 0.002467    0.467945   31.756180
0.85917     13.855515   43.808765   2.243431
 0.002467    0.446776   29.706859
1.00000     13.855515   43.808765   2.243431
 0.002467    1.329687   59.378188

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -6.621689  -119.064522   -2.111926
-0.002431   -2.212422  -147.990826
0.57750    -6.621689  -119.064522   -2.111926
-0.002431   -1.327013   -98.385211
0.71833    -6.621689  -119.064522   -2.111926
-0.002431   -0.441992   -51.129031
0.85917    -6.621689  -119.064522   -2.111926
-0.002431   -0.473429   -18.239622
1.00000    -6.621689  -119.064522   -2.111926
-0.002431   -1.414001   -15.650460

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     0.566708    84.420430   0.728806
 0.000896    0.763936   115.367878
0.57750     0.566708    84.420430   0.728806
 0.000896    0.458186   80.009583
0.71833     0.566708    84.420430   0.728806
 0.000896    0.152131   44.738819
0.85917     0.566708    84.420430   0.728806
 0.000896    0.141707    9.739937
1.00000     0.566708    84.420430   0.728806
 0.000896    0.425841    2.970599

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -9.904485    -7.753674   -0.676478
-0.000921   -0.709160   -10.492648
0.57750    -9.904485    -7.753674   -0.676478
-0.000921   -0.425695    -7.279202
0.71833    -9.904485    -7.753674   -0.676478
-0.000921   -0.141598    -4.184507
0.85917    -9.904485    -7.753674   -0.676478
-0.000921   -0.152198    -1.639922
1.00000    -9.904485    -7.753674   -0.676478
-0.000921   -0.458123   -26.940599

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     3.908421    95.696238   1.164453
 0.004116    1.217847   138.829484
0.57750     3.908421    95.696238   1.164453
 0.004116    0.729355    99.444688
0.71833     3.908421    95.696238   1.164453
 0.004116    0.242356    64.797735
0.85917     3.908421    95.696238   1.164453
 0.004116    0.236715    60.244024
1.00000     3.908421    95.696238   1.164453
 0.004116    0.685047   83.197308

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -13.628419  -91.312550   -1.085511
-0.004142   -1.135669   -75.206559
0.57750    -13.628419  -91.312550   -1.085511
-0.004142   -0.680454   -37.671983
0.71833    -13.628419  -91.312550   -1.085511
-0.004142   -0.226695    -6.434620
0.85917    -13.628419  -91.312550   -1.085511
-0.004142   -0.257290    -2.857946
1.00000    -13.628419  -91.312550   -1.085511
-0.004142   -0.742673   -28.387666
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3488

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     8.796321    82.185156   1.712678
 0.003154    1.793237   115.405371
0.57750     8.796321    82.185156   1.712678
 0.003154    1.074706   81.319456
0.71833     8.796321    82.185156   1.712678
 0.003154    0.356975   50.261793
0.85917     8.796321    82.185156   1.712678
 0.003154    0.345598   41.043103
1.00000     8.796321    82.185156   1.712678
 0.003154    1.018859   71.026557

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -11.247583  -102.218938   -1.617012
-0.003159   -1.693433  -102.649142
0.57750    -11.247583  -102.218938   -1.617012
-0.003159   -1.015660   -60.168019
0.71833    -11.247583  -102.218938   -1.617012
-0.003159   -0.338305   -21.772557
0.85917    -11.247583  -102.218938   -1.617012
-0.003159   -0.367254    -4.260629
1.00000    -11.247583  -102.218938   -1.617012
-0.003159   -1.083787   -25.617043

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     14.373675   71.966285   2.162777
 0.003103    2.265258  101.132926
0.57750     14.373675   71.966285   2.162777
 0.003103    1.358038   71.268341
0.71833     14.373675   71.966285   2.162777
 0.003103    0.451135   43.914276
0.85917     14.373675   71.966285   2.162777
 0.003103    0.433306   34.821995
1.00000     14.373675   71.966285   2.162777
 0.003103    1.284118   62.744771

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -9.502945  -114.382293   -2.038745
-0.003095   -2.106374  -146.216317
0.57750    -9.502945  -114.382293   -2.038745
-0.003095   -1.280666   -89.357775
0.71833    -9.502945  -114.382293   -2.038745
-0.003095   -0.426482   -45.199153
0.85917    -9.502945  -114.382293   -2.038745
-0.003095   -0.459561   -18.597520
1.00000    -9.502945  -114.382293   -2.038745
-0.003095   -1.365448   -28.483456

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     9.668069    51.111987   1.402196
 0.004419    1.469881   76.362148
0.57750     9.668069    51.111987   1.402196
 0.004419    0.881982   55.805823
0.71833     9.668069    51.111987   1.402196
 0.004419    0.293973   37.555248
0.85917     9.668069    51.111987   1.402196
 0.004419    0.294594   44.525697
1.00000     9.668069    51.111987   1.402196
 0.004419    0.752228   63.831913

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -8.865718   -95.822832   -1.194751
-0.004424   -1.251468  -106.795819
0.57750    -8.865718   -95.822832   -1.194751
-0.004424   -0.750544   -67.113227
0.71833    -8.865718   -95.822832   -1.194751
-0.004424   -0.249553   -36.889123
0.85917    -8.865718   -95.822832   -1.194751
-0.004424   -0.294476   -23.995258
1.00000    -8.865718   -95.822832   -1.194751
-0.004424   -0.881724   -18.447199
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3489

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     16.616225   95.696238   2.411066
 0.004116    2.526494  138.829484
0.57750     16.616225   95.696238   2.411066
 0.004116    1.515249   99.444688
0.71833     16.616225   95.696238   2.411066
 0.004116    0.502880   64.797735
0.85917     16.616225   95.696238   2.411066
 0.004116    0.471225   60.244024
1.00000     16.616225   95.696238   2.411066
 0.004116    1.411877   83.197308

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -13.628419  -134.336455   -2.243869
-0.004142   -2.351355  -164.801081
0.57750    -13.628419  -134.336455   -2.243869
-0.004142   -1.410636  -108.846963
0.71833    -13.628419  -134.336455   -2.243869
-0.004142   -0.470116   -65.586847
0.85917    -13.628419  -134.336455   -2.243869
-0.004142   -0.503166   -34.392523
1.00000    -13.628419  -134.336455   -2.243869
-0.004142   -1.515537   -28.483456

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     16.616225   95.696238   2.411066
 0.004419    2.526494  138.829484
0.57750     16.616225   95.696238   2.411066
 0.004419    1.515249   99.444688
0.71833     16.616225   95.696238   2.411066
 0.004419    0.502880   64.797735
0.85917     16.616225   95.696238   2.411066
 0.004419    0.471225   60.244024
1.00000     16.616225   95.696238   2.411066
 0.004419    1.411877   83.197308

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -13.628419  -134.336455   -2.243869
-0.004424   -2.351355  -164.801081
0.57750    -13.628419  -134.336455   -2.243869
-0.004424   -1.410636  -108.846963
0.71833    -13.628419  -134.336455   -2.243869
-0.004424   -0.470116   -65.586847
0.85917    -13.628419  -134.336455   -2.243869
-0.004424   -0.503166   -34.392523
1.00000    -13.628419  -134.336455   -2.243869
-0.004424   -1.515537   -28.483456

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667     16.616225   95.696238   2.411066
 0.004419    2.526494  138.829484
0.57750     16.616225   95.696238   2.411066
 0.004419    1.515249   99.444688
0.71833     16.616225   95.696238   2.411066
 0.004419    0.502880   64.797735
0.85917     16.616225   95.696238   2.411066
 0.004419    0.471225   60.244024
1.00000     16.616225   95.696238   2.411066
 0.004419    1.411877   83.197308

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667    -13.628419  -134.336455   -2.243869
-0.004424   -2.351355  -164.801081
0.57750    -13.628419  -134.336455   -2.243869
-0.004424   -1.410636  -108.846963
0.71833    -13.628419  -134.336455   -2.243869
-0.004424   -0.470116   -65.586847
0.85917    -13.628419  -134.336455   -2.243869
-0.004424   -0.503166   -34.392523
1.00000    -13.628419  -134.336455   -2.243869
-0.004424   -1.515537   -28.483456
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                3490

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       331 ================== LENGTH
=     2.977081

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000     2.127484    3.186691    0.727885
0.000574    0.456589    3.918636
0.14083     2.127484    3.186691    0.727885
0.000574    0.151413   11.131312
0.28167     2.127484    3.186691    0.727885
0.000574    0.117058   18.489996
0.42250     2.127484    3.186691    0.727885
0.000574    0.348905   25.992013
0.56333     2.127484    3.186691    0.727885
0.000574    0.580751   33.523622

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000    -1.387266   -18.295333   -0.552975
-0.000585   -0.346634    -1.394960
0.14083    -1.387266   -18.295333   -0.552975
-0.000585   -0.114794    -2.530571
0.28167    -1.387266   -18.295333   -0.552975
-0.000585   -0.153738    -3.666927
0.42250    -1.387266   -18.295333   -0.552975
-0.000585   -0.458960    -4.911450
0.56333    -1.387266   -18.295333   -0.552975
-0.000585   -0.764141    -6.183162

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000     7.440591    5.879272    1.209026
0.001094    0.758854    8.495355
0.14083     7.440591    5.879272    1.209026
0.001094    0.252093   21.615983
0.28167     7.440591    5.879272    1.209026
0.001094    0.193593   35.314033
0.42250     7.440591    5.879272    1.209026
0.001094    0.577407   49.747163
0.56333     7.440591    5.879272    1.209026
0.001094    0.961210   64.664155

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000    -0.472064   -36.309904   -0.915406
-0.001108   -0.574001   -14.233675
0.14083    -0.472064   -36.309904   -0.915406
-0.001108   -0.190392   -11.081612
0.28167    -0.472064   -36.309904   -0.915406
-0.001108   -0.255167    -9.045491
0.42250    -0.472064   -36.309904   -0.915406
-0.001108   -0.762089    -8.048148
0.56333    -0.472064   -36.309904   -0.915406
-0.001108   -1.269001    -9.610701

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000     7.994184    4.164007    1.404591
0.001201    0.881441   15.271119
0.14083     7.994184    4.164007    1.404591
0.001201    0.292455   34.113686
0.28167     7.994184    4.164007    1.404591
0.001201    0.240696   53.332850
0.42250     7.994184    4.164007    1.404591
0.001201    0.718024   72.706303
0.56333     7.994184    4.164007    1.404591
0.001201    1.195295   92.356453

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000    -0.265001   -47.056759   -1.138336
-0.001212   -0.713787    -7.205231
0.14083    -0.265001   -47.056759   -1.138336
-0.001212   -0.236486    -6.335706
0.28167    -0.265001   -47.056759   -1.138336
-0.001212   -0.296248    -6.213555
Program    SAP2000    Nonlinear    Version    7.42
```

File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3491

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42250 -0.265001 -47.056759 -1.138336
-0.001212 -0.885260 -6.488147
0.56333 -0.265001 -47.056759 -1.138336
-0.001212 -1.474164 -7.824589

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.991265 37.016878 1.370219
0.003292 0.863945 58.316228
0.14083 6.991265 37.016878 1.370219
0.003292 0.292221 73.540794
0.28167 6.991265 37.016878 1.370219
0.003292 0.250871 89.690942
0.42250 6.991265 37.016878 1.370219
0.003292 0.747767 116.799972
0.56333 6.991265 37.016878 1.370219
0.003292 1.244581 147.966833

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.338062 -74.493509 -1.184947
-0.003307 -0.742672 -9.658251
0.14083 -4.338062 -74.493509 -1.184947
-0.003307 -0.249664 -13.832839
0.28167 -4.338062 -74.493509 -1.184947
-0.003307 -0.289225 -13.337137
0.42250 -4.338062 -74.493509 -1.184947
-0.003307 -0.863806 -18.395790
0.56333 -4.338062 -74.493509 -1.184947
-0.003307 -1.438298 -33.605388

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.677129 1.091774 0.491545
0.000460 0.308647 4.671769
0.14083 5.677129 1.091774 0.491545
0.000460 0.102531 12.518124
0.28167 5.677129 1.091774 0.491545
0.000460 0.082453 20.652041
0.42250 5.677129 1.091774 0.491545
0.000460 0.246185 28.915352
0.56333 5.677129 1.091774 0.491545
0.000460 0.409886 37.217171

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.121188 -20.021481 -0.390443
-0.000462 -0.244918 -14.695249
0.14083 -0.121188 -20.021481 -0.390443
-0.000462 -0.081198 -9.388713
0.28167 -0.121188 -20.021481 -0.390443
-0.000462 -0.103475 -4.769998
0.42250 -0.121188 -20.021481 -0.390443
-0.000462 -0.360615 -2.082013
0.56333 -0.121188 -20.021481 -0.390443
-0.000462 -0.515716 -2.123573

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.267613 35.201220 0.783247
0.003489 0.497376 58.240270
0.14083 6.267613 35.201220 0.783247
0.003489 0.172776 58.616076
0.28167 6.267613 35.201220 0.783247
0.003489 0.152248 60.027733
0.42250 6.267613 35.201220 0.783247
0.003489 0.454239 76.396281
0.56333 6.267613 35.201220 0.783247
0.003489 0.756167 98.063155

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.392145 -51.804918 -0.720127
-0.003491 -0.451545 -9.824043
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3492

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14083 -3.392145 -51.804918 -0.720127
-0.003491 -0.154862 -4.609895
0.28167 -3.392145 -51.804918 -0.720127
-0.003491 -0.165147 -3.140580
0.42250 -3.392145 -51.804918 -0.720127
-0.003491 -0.493653 -3.730903
0.56333 -3.392145 -51.804918 -0.720127
-0.003491 -0.822045 -18.102832

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.079295 34.074911 1.266775
0.003592 0.800206 55.412948
0.14083 8.079295 34.074911 1.266775
0.003592 0.272504 61.651698
0.28167 8.079295 34.074911 1.266775
0.003592 0.226878 69.034641
0.42250 8.079295 34.074911 1.266775
0.003592 0.676746 89.985568
0.56333 8.079295 34.074911 1.266775
0.003592 1.126558 115.877248

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.181124 -61.940312 -1.072844
-0.003603 -0.672690 -11.071914
0.14083 -3.181124 -61.940312 -1.072844
-0.003603 -0.250518 -6.630119
0.28167 -3.181124 -61.940312 -1.072844
-0.003603 -0.267219 -5.009055
0.42250 -3.181124 -61.940312 -1.072844
-0.003603 -0.798453 -6.791804
0.56333 -3.181124 -61.940312 -1.072844
-0.003603 -1.329574 -20.797212

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.890259 41.630521 1.294894
0.002980 0.815995 49.532561
0.14083 6.890259 41.630521 1.294894
0.002980 0.275270 63.262817
0.28167 6.890259 41.630521 1.294894
0.002980 0.238495 77.812677
0.42250 6.890259 41.630521 1.294894
0.002980 0.710664 101.295539
0.56333 6.890259 41.630521 1.294894
0.002980 1.182748 128.073443

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.299595 -64.022159 -1.125967
-0.002984 -0.705596 -12.686954
0.14083 -5.299595 -64.022159 -1.125967
-0.002984 -0.236569 -15.892266
0.28167 -5.299595 -64.022159 -1.125967
-0.002984 -0.273159 -23.261806
0.42250 -5.299595 -64.022159 -1.125967
-0.002984 -0.816238 -32.137017
0.56333 -5.299595 -64.022159 -1.125967
-0.002984 -1.359160 -49.332027

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.289409 39.870051 0.445523
0.000873 0.279539 1.695638
0.14083 0.289409 39.870051 0.445523
0.000873 0.092739 2.988380
0.28167 0.289409 39.870051 0.445523
0.000873 0.079692 4.450615
0.42250 0.289409 39.870051 0.445523
0.000873 0.238052 5.957882
0.56333 0.289409 39.870051 0.445523
0.000873 0.396411 7.477035
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3493

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.558859 -3.656479 -0.377700
-0.000859 -0.237023 -12.183974
0.14083 -5.558859 -3.656479 -0.377700
-0.000859 -0.078659 -28.532785
0.28167 -5.558859 -3.656479 -0.377700
-0.000859 -0.094045 -44.894575
0.42250 -5.558859 -3.656479 -0.377700
-0.000859 -0.280852 -61.373437
0.56333 -5.558859 -3.656479 -0.377700
-0.000859 -0.467647 -78.089227

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.793314 86.733522 0.686037
0.004488 0.437292 63.828856
0.14083 0.793314 86.733522 0.686037
0.004488 0.154289 51.287062
0.28167 0.793314 86.733522 0.686037
0.004488 0.136182 41.257857
0.42250 0.793314 86.733522 0.686037
0.004488 0.405227 49.490472
0.56333 0.793314 86.733522 0.686037
0.004488 0.674639 64.124785

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.194510 -34.975963 -0.642574
-0.004484 -0.403010 -15.898145
0.14083 -11.194510 -34.975963 -0.642574
-0.004484 -0.140010 -29.127749
0.28167 -11.194510 -34.975963 -0.642574
-0.004484 -0.144951 -46.571293
0.42250 -11.194510 -34.975963 -0.642574
-0.004484 -0.432743 -66.894616
0.56333 -11.194510 -34.975963 -0.642574
-0.004484 -0.720388 -103.243419

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.884745 66.615976 0.987396
0.003656 0.624430 49.542980
0.14083 3.884745 66.615976 0.987396
0.003656 0.213590 50.072156
0.28167 3.884745 66.615976 0.987396
0.003656 0.190306 51.317532
0.42250 3.884745 66.615976 0.987396
0.003656 0.566551 65.021039
0.56333 3.884745 66.615976 0.987396
0.003656 0.942678 83.130960

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.275137 -43.241596 -0.897099
-0.003651 -0.703545 -13.303039
0.14083 -8.275137 -43.241596 -0.897099
-0.003651 -0.190762 -26.537614
0.28167 -8.275137 -43.241596 -0.897099
-0.003651 -0.208221 -42.231253
0.42250 -8.275137 -43.241596 -0.897099
-0.003651 -0.622411 -59.351031
0.56333 -8.275137 -43.241596 -0.897099
-0.003651 -1.036404 -87.255712

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.941267 56.942580 1.267008
0.003397 0.799097 43.441903
0.14083 6.941267 56.942580 1.267008
0.003397 0.270488 49.107854
0.28167 6.941267 56.942580 1.267008
0.003397 0.228816 55.668826
0.42250 6.941267 56.942580 1.267008
0.003397 0.681759 72.625855
0.56333 6.941267 56.942580 1.267008
0.003397 1.134579 93.318225
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3494

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.967502 -49.567272 -1.080013
-0.003397 -0.676991 -18.463185
0.14083 -6.967502 -49.567272 -1.080013
-0.003397 -0.222825 -26.726547
0.28167 -6.967502 -49.567272 -1.080013
-0.003397 -0.267186 -38.275792
0.42250 -6.967502 -49.567272 -1.080013
-0.003397 -0.798589 -52.183903
0.56333 -6.967502 -49.567272 -1.080013
-0.003397 -1.329814 -75.781044

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.528748 7.072086 1.207015
0.000569 0.756415 6.901310
0.14083 3.528748 7.072086 1.207015
0.000569 0.249792 22.025743
0.28167 3.528748 7.072086 1.207015
0.000569 0.229469 37.298686
0.42250 3.528748 7.072086 1.207015
0.000569 0.684754 52.621614
0.56333 3.528748 7.072086 1.207015
0.000569 1.139976 68.053705

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.305424 -37.031888 -1.085811
-0.000591 -0.681053 -2.201699
0.14083 -1.305424 -37.031888 -1.085811
-0.000591 -0.225781 -4.845287
0.28167 -1.305424 -37.031888 -1.085811
-0.000591 -0.254287 -7.629869
0.42250 -1.305424 -37.031888 -1.085811
-0.000591 -0.761035 -10.457116
0.56333 -1.305424 -37.031888 -1.085811
-0.000591 -1.267269 -13.345037

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 13.122237 10.939582 2.011431
0.001009 1.261167 12.457899
0.14083 13.122237 10.939582 2.011431
0.001009 0.417017 39.504569
0.28167 13.122237 10.939582 2.011431
0.001009 0.390789 68.295916
0.42250 13.122237 10.939582 2.011431
0.001009 1.165212 98.024615
0.56333 13.122237 10.939582 2.011431
0.001009 1.939579 128.869127

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.785557 -75.099845 -1.847083
-0.001025 -1.158230 -14.953826
0.14083 -0.785557 -75.099845 -1.847083
-0.001025 -0.363890 -13.232298
0.28167 -0.785557 -75.099845 -1.847083
-0.001025 -0.423341 -14.147850
0.42250 -0.785557 -75.099845 -1.847083
-0.001025 -1.267598 -15.897955
0.56333 -0.785557 -75.099845 -1.847083
-0.001025 -2.111228 -19.680336

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.005746 9.704436 2.392379
0.001101 1.499421 28.495441
0.14083 14.005746 9.704436 2.392379
0.001101 0.494832 65.227370
0.28167 14.005746 9.704436 2.392379
0.001101 0.470100 103.270377
0.42250 14.005746 9.704436 2.392379
0.001101 1.400704 141.664823
0.56333 14.005746 9.704436 2.392379
0.001101 2.331388 180.618770
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3495

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.803703 -93.629338 -2.219996
-0.001115 -1.391861 -9.095996
0.14083 -0.803703 -93.629338 -2.219996
-0.001115 -0.461001 -9.306917
0.28167 -0.803703 -93.629338 -2.219996
-0.001115 -0.503227 -11.310381
0.42250 -0.803703 -93.629338 -2.219996
-0.001115 -1.507886 -13.792346
0.56333 -0.803703 -93.629338 -2.219996
-0.001115 -2.511346 -17.390697

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.267922 47.451133 2.361921
0.002518 1.484635 69.599463
0.14083 12.267922 47.451133 2.361921
0.002518 0.494795 99.934877
0.28167 12.267922 47.451133 2.361921
0.002518 0.466180 132.294728
0.42250 12.267922 47.451133 2.361921
0.002518 1.389129 173.215562
0.56333 12.267922 47.451133 2.361921
0.002518 2.312869 218.419557

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.105890 -109.757312 -2.203293
-0.002528 -0.462528 -11.125930
0.14083 -6.105890 -109.757312 -2.203293
-0.002528 -0.462511 -15.414512
0.28167 -6.105890 -109.757312 -2.203293
-0.002528 -0.497073 -23.596442
0.42250 -6.105890 -109.757312 -2.203293
-0.002528 -1.467835 -33.375631
0.56333 -6.105890 -109.757312 -2.203293
-0.002528 -2.478564 -52.305587

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.196973 2.097130 0.840528
0.000393 0.527123 7.578917
0.14083 10.196973 2.097130 0.840528
0.000393 0.174239 22.051793
0.28167 10.196973 2.097130 0.840528
0.000393 0.169837 37.668559
0.42250 10.196973 2.097130 0.840528
0.000393 0.665900 54.111932
0.56333 10.196973 2.097130 0.840528
0.000393 0.841945 71.525618

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.144403 -42.177499 -0.801477
-0.000403 -0.502259 -13.812070
0.14083 -0.144403 -42.177499 -0.801477
-0.000403 -0.166271 -8.728335
0.28167 -0.144403 -42.177499 -0.801477
-0.000403 -0.178238 -5.413677
0.42250 -0.144403 -42.177499 -0.801477
-0.000403 -0.529415 -3.694882
0.56333 -0.144403 -42.177499 -0.801477
-0.000403 -0.881977 -4.135703

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.738002 37.821596 1.369436
0.002676 0.864947 73.145969
0.14083 10.738002 37.821596 1.369436
0.002676 0.292405 83.330974
0.28167 10.738002 37.821596 1.369436
0.002676 0.276958 94.882424
0.42250 10.738002 37.821596 1.369436
0.002676 0.824448 119.216618
0.56333 10.738002 37.821596 1.369436
0.002676 1.371342 149.753757
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3496

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.948956 -75.284877 -1.308658
-0.002680 -0.821688 -8.791495
0.14083 -3.948956 -75.284877 -1.308658
-0.002680 -0.279017 -4.310440
0.28167 -3.948956 -75.284877 -1.308658
-0.002680 -0.287567 -3.617142
0.42250 -3.948956 -75.284877 -1.308658
-0.002680 -0.861601 -4.980683
0.56333 -3.948956 -75.284877 -1.308658
-0.002680 -1.436004 -19.644524

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 14.857920 39.149451 2.156588
0.002854 1.357820 70.454034
0.14083 14.857920 39.149451 2.156588
0.002854 0.454734 91.461063
0.28167 14.857920 39.149451 2.156588
0.002854 0.428355 114.741236
0.42250 14.857920 39.149451 2.156588
0.002854 1.276255 149.853486
0.56333 14.857920 39.149451 2.156588
0.002854 2.125343 190.677569

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.746082 -99.634240 -2.024841
-0.002873 -1.270589 -11.405442
0.14083 -3.746082 -99.634240 -2.024841
-0.002873 -0.427061 -7.425901
0.28167 -3.746082 -99.634240 -2.024841
-0.002873 -0.453333 -8.492455
0.42250 -3.746082 -99.634240 -2.024841
-0.002873 -1.357809 -11.891249
0.56333 -3.746082 -99.634240 -2.024841
-0.002873 -2.262347 -27.263065

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.785378 61.183576 2.234423
0.002378 1.041182 59.413163
0.14083 12.785378 61.183576 2.234423
0.002378 0.467654 87.163542
0.28167 12.785378 61.183576 2.234423
0.002378 0.443657 116.965089
0.42250 12.785378 61.183576 2.234423
0.002378 1.322205 154.083027
0.56333 12.785378 61.183576 2.234423
0.002378 2.201167 194.780669

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.941883 -98.643770 -2.096540
-0.002382 -1.315052 -15.655112
0.14083 -7.941883 -98.643770 -2.096540
-0.002382 -0.439161 -27.532710
0.28167 -7.941883 -98.643770 -2.096540
-0.002382 -0.470037 -43.345328
0.42250 -7.941883 -98.643770 -2.096540
-0.002382 -1.407421 -60.788032
0.56333 -7.941883 -98.643770 -2.096540
-0.002382 -2.344499 -85.684706

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.585722 85.342401 0.735995
0.000950 0.461605 2.964038
0.14083 0.585722 85.342401 0.735995
0.000950 0.152561 6.049102
0.28167 0.585722 85.342401 0.735995
0.000950 0.144168 9.228877
0.42250 0.585722 85.342401 0.735995
0.000950 0.431089 12.431534
0.56333 0.585722 85.342401 0.735995
0.000950 0.717248 15.658994
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3497

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.031780 -7.751302 -0.683193
-0.000881 -0.282767 -26.912687
0.14083 -10.031780 -7.751302 -0.683193
-0.000881 -0.142011 -62.442760
0.28167 -10.031780 -7.751302 -0.683193
-0.000881 -0.154698 -97.976661
0.42250 -10.031780 -7.751302 -0.683193
-0.000881 -0.463788 -133.610611
0.56333 -10.031780 -7.751302 -0.683193
-0.000881 -0.772446 -169.376786

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.423650 140.630665 1.167639
0.004060 0.741389 83.224975
0.14083 1.423650 140.630665 1.167639
0.004060 0.255076 70.825937
0.28167 1.423650 140.630665 1.167639
0.004060 0.229792 60.137336
0.42250 1.423650 140.630665 1.167639
0.004060 0.685983 67.311708
0.56333 1.423650 140.630665 1.167639
0.004060 1.143411 82.725425

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.998075 -39.850817 -1.091042
-0.004037 -0.686555 -28.401842
0.14083 -16.998075 -39.850817 -1.091042
-0.004037 -0.236994 -60.617109
0.28167 -16.998075 -39.850817 -1.091042
-0.004037 -0.246537 -96.961718
0.42250 -16.998075 -39.850817 -1.091042
-0.004037 -0.733915 -136.476926
0.56333 -16.998075 -39.850817 -1.091042
-0.004037 -1.223737 -194.223590

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.919833 114.858676 1.710603
0.003385 1.078957 71.060836
0.14083 6.919833 114.858676 1.710603
0.003385 0.363148 77.673645
0.28167 6.919833 114.858676 1.710603
0.003385 0.340722 85.145807
0.42250 6.919833 114.858676 1.710603
0.003385 1.016366 105.484265
0.56333 6.919833 114.858676 1.710603
0.003385 1.692806 131.743786

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.703556 -64.575799 -1.613310
-0.003380 -1.013215 -25.621510
0.14083 -13.703556 -64.575799 -1.613310
-0.003380 -0.342349 -54.816061
0.28167 -13.703556 -64.575799 -1.613310
-0.003380 -0.359625 -87.055634
0.42250 -13.703556 -64.575799 -1.613310
-0.003380 -1.076513 -121.584745
0.56333 -13.703556 -64.575799 -1.613310
-0.003380 -1.794139 -168.944619

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.772723	99.029967	2.157934
0.003164	1.358486	62.780088	
0.14083	12.772723	99.029967	2.157934
0.003164	0.454597	78.390370	
0.28167	12.772723	99.029967	2.157934
0.003164	0.428651	95.881973	
0.42250	12.772723	99.029967	2.157934
0.003164	1.278111	124.491176	
0.56333	12.772723	99.029967	2.157934
0.003164	2.128394	158.427518	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 3498

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.531254	-83.137494	-2.027776
-0.003165	-1.272715	-28.489265	
0.14083	-11.531254	-83.137494	-2.027776
-0.003165	-0.427161	-51.091012	
0.28167	-11.531254	-83.137494	-2.027776
-0.003165	-0.453733	-77.642898	
0.42250	-11.531254	-83.137494	-2.027776
-0.003165	-1.358542	-106.887393	
0.56333	-11.531254	-83.137494	-2.027776
-0.003165	-2.263641	-147.414587	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.079295	86.733522	1.404591
0.004488	0.981441	63.828856	
0.14083	8.079295	86.733522	1.404591
0.004488	0.292455	73.540794	
0.28167	8.079295	86.733522	1.404591
0.004488	0.250871	89.690942	
0.42250	8.079295	86.733522	1.404591
0.004488	0.747767	116.799972	
0.56333	8.079295	86.733522	1.404591
0.004488	1.244581	147.966833	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.194510	-74.493509	-1.184947
-0.004484	-0.742672	-18.463185	
0.14083	-11.194510	-74.493509	-1.184947
-0.004484	-0.249664	-29.127749	
0.28167	-11.194510	-74.493509	-1.184947
-0.004484	-0.296248	-46.571293	
0.42250	-11.194510	-74.493509	-1.184947
-0.004484	-0.885260	-66.894616	
0.56333	-11.194510	-74.493509	-1.184947
-0.004484	-1.474164	-103.243419	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.857920	140.630665	2.392379
0.004060	1.499421	83.224975	
0.14083	14.857920	140.630665	2.392379
0.004060	0.494832	99.934877	
0.28167	14.857920	140.630665	2.392379
0.004060	0.470100	132.294728	
0.42250	14.857920	140.630665	2.392379
0.004060	1.400704	173.215562	
0.56333	14.857920	140.630665	2.392379
0.004060	2.331388	218.419557	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.998075	-109.757312	-2.219996
-0.004037	-1.391861	-28.489265	
0.14083	-16.998075	-109.757312	-2.219996
-0.004037	-0.462511	-62.442760	
0.28167	-16.998075	-109.757312	-2.219996
-0.004037	-0.503227	-97.976661	
0.42250	-16.998075	-109.757312	-2.219996
-0.004037	-1.507886	-136.476926	
0.56333	-16.998075	-109.757312	-2.219996
-0.004037	-2.511346	-194.223590	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.857920	140.630665	2.392379
0.004488	1.499421	83.224975	
0.14083	14.857920	140.630665	2.392379
0.004488	0.494832	99.934877	
0.28167	14.857920	140.630665	2.392379
0.004488	0.470100	132.294728	
0.42250	14.857920	140.630665	2.392379
0.004488	1.400704	173.215562	
0.56333	14.857920	140.630665	2.392379
0.004488	2.331388	218.419557	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 3499

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.998075	-109.757312	-2.219996
-0.004484	-1.391861	-28.489265	
0.14083	-16.998075	-109.757312	-2.219996
-0.004484	-0.462511	-62.442760	
0.28167	-16.998075	-109.757312	-2.219996
-0.004484	-0.503227	-97.976661	
0.42250	-16.998075	-109.757312	-2.219996
-0.004484	-1.507886	-136.476926	
0.56333	-16.998075	-109.757312	-2.219996
-0.004484	-2.511346	-194.223590	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	14.857920	140.630665	2.392379
0.004488	1.499421	83.224975	
0.14083	14.857920	140.630665	2.392379
0.004488	0.494832	99.934877	
0.28167	14.857920	140.630665	2.392379
0.004488	0.470100	132.294728	
0.42250	14.857920	140.630665	2.392379
0.004488	1.400704	173.215562	
0.56333	14.857920	140.630665	2.392379
0.004488	2.331388	218.419557	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.998075	-109.757312	-2.219996
-0.004484	-1.391861	-28.489265	
0.14083	-16.998075	-109.757312	-2.219996
-0.004484	-0.462511	-62.442760	
0.28167	-16.998075	-109.757312	-2.219996
-0.004484	-0.503227	-97.976661	
0.42250	-16.998075	-109.757312	-2.219996
-0.004484	-1.507886	-136.476926	
0.56333	-16.998075	-109.757312	-2.219996
-0.004484	-2.511346	-194.223590	

ELEM = 332 ========== LENGTH = 2.977323

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	2.711606	3.013423	0.647650
0.001008	0.699254	4.172879	
0.57748	2.711606	3.013423	0.647650
0.001008	0.427675	2.984996	
0.71832	2.711606	3.013423	0.647650
0.001008	0.156096	2.876037	
0.85916	2.711606	3.013423	0.647650
0.001008	0.091071	3.600262	
1.00000	2.711606	3.013423	0.647650
0.001008	0.304304	7.600452	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.827768	-20.511837	-0.508476
-0.000519	-0.548593	-27.356227	
0.57748	-0.827768	-20.511837	-0.508476
-0.000519	-0.335373	-18.755939	
0.71832	-0.827768	-20.511837	-0.508476
-0.000519	-0.122154	-11.651319	
0.85916	-0.827768	-20.511837	-0.508476
-0.000519	-0.115472	-9.731748	
1.00000	-0.827768	-20.511837	-0.508476
-0.000519	-0.387080	-8.568551	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.435412	4.700869	1.046015
0.001869	1.130098	6.383499	
0.57748	6.435412	4.700863	1.046015
0.001869	0.691471	4.512694	
0.71832	6.435412	4.700863	1.046015
0.001869	0.252828	2.813376	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 3500

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85916	6.435412	4.700863	1.046015
0.001869	0.159084	3.345689	
1.00000	6.435412	4.700863	1.046015
0.001869	0.529194	12.989534	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.559241	-43.127974	-0.883035
-0.000859	-0.952410	-70.844327	
0.57748	-0.559241	-43.127974	-0.883035
-0.000859	-0.582127	-53.476741	
0.71832	-0.559241	-43.127974	-0.883035
-0.000859	-0.211857	-38.248520	
0.85916	-0.559241	-43.127974	-0.883035
-0.000859	-0.186264	-31.824281	
1.00000	-0.559241	-43.127974	-0.883035
-0.000859	-0.624873	-26.140143	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	7.150588	20.171076	1.167111
0.001633	1.261797	45.028044	
0.57748	7.150588	20.171076	1.167111
0.001633	0.772400	36.615815	
0.71832	7.150588	20.171076	1.167111
0.001633	0.282830	28.506848	
0.85916	7.150588	20.171076	1.167111
0.001633	0.204135	22.205215	
1.00000	7.150588	20.171076	1.167111
0.001633	0.683289	26.445269	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.753213	-55.448692	-1.142507
-0.000628	-1.233100	-86.255719	
0.57748	-1.753213	-55.448692	-1.142507
-0.000628	-0.754012	-63.498955	
0.71832	-1.753213	-55.448692	-1.142507
-0.000628	-0.274916	-42.244559	
0.85916	-1.753213	-55.448692	-1.142507
-0.000628	-0.206377	-28.383514	
1.00000	-1.753213	-55.448692	-1.142507
-0.000628	-0.695856	-17.406414	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.198448	29.253635	1.157852
0.003743	1.251138	58.606461	
0.57748	9.198448	29.253635	1.157852
0.003743	0.765621	47.156318	
0.71832	9.198448	29.253635	1.157852
0.003743	0.279967	39.529242	
0.85916	9.198448	29.253635	1.157852
0.003743	0.227210	49.693396	
1.00000	9.198448	29.253635	1.157852
0.003743	0.731903	78.005444	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-3.407380	-111.591679	-1.211195
-0.003800	-1.307903	-125.442136	
0.57748	-3.407380	-111.591679	-1.211195
-0.003800	-0.800033	-79.240571	
0.71832	-3.407380	-111.591679	-1.211195
-0.003800	-0.292166	-42.348199	
0.85916	-3.407380	-111.591679	-1.211195
-0.003800	-0.214750	-23.833118	
1.00000	-3.407380	-111.591679	-1.211195
-0.003800	-0.699627	-16.908683	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	3.989492	2.549486	0.390543
0.000719	0.422705	3.998612	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 3501

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57748	3.989492	2.549486	0.390543
0.000719	0.258940	3.312567	
0.71832	3.989492	2.549486	0.390543
0.000719	0.095117	2.702117	
0.85916	3.989492	2.549486	0.390543
0.000719	0.077589	2.601545	
1.00000	3.989492	2.549486	0.390543
0.000719	0.258488	6.228262	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.168775	-24.959889	-0.431456
-0.000104	-0.465274	-47.782652	
0.57748	-0.168775	-24.959889	-0.431456
-0.000104	-0.284351	-37.936481	
0.71832	-0.168775	-24.959889	-0.431456
-0.000104	-0.103435	-28.645136	
0.85916	-0.168775	-24.959889	-0.431456
-0.000104	-0.068492	-22.286805	
1.00000	-0.168775	-24.959889	-0.431456
-0.000104	-0.232379	-17.231211	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	7.475221	22.384423	0.601169
0.003612	0.650449	52.712995	
0.57748	7.475221	22.384423	0.601169
0.003612	0.398370	44.209525	
0.71832	7.475221	22.384423	0.601169
0.003612	0.146078	40.620332	
0.85916	7.475221	22.384423	0.601169
0.003612	0.156429	57.512895	
1.00000	7.475221	22.384423	0.601169
0.003612	0.483431	79.473236	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-2.108848	-93.423330	-0.790326
-0.003918	-0.853487	-98.984585	
0.57748	-2.108848	-93.423330	-0.790326
-0.003918	-0.602080	-60.620579	
0.71832	-2.108848	-93.423330	-0.790326
-0.003918	-0.190673	-33.309005	
0.85916	-2.108848	-93.423330	-0.790326
-0.003918	-0.118541	-19.620444	
1.00000	-2.108848	-93.423330	-0.790326
-0.003918	-0.369762	-8.852981	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.302295	22.143688	1.030852
0.004041	1.114554	49.425517	
0.57748	9.302295	22.143688	1.030852
0.004041	0.682297	41.372178	
0.71832	9.302295	22.143688	1.030852
0.004041	0.249899	37.429920	
0.85916	9.302295	22.143688	1.030852
0.004041	0.209521	51.929219	
1.00000	9.302295	22.143688	1.030852
0.004041	0.665188	76.448986	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-2.068679	-101.691198	-1.095959
-0.003907	-1.183284	-113.026096	
0.57748	-2.068679	-101.691198	-1.095959
-0.003907	-0.723716	-71.070540	
0.71832	-2.068679	-101.691198	-1.095959
-0.003907	-0.264148	-40.599941	
0.85916	-2.068679	-101.691198	-1.095959
-0.003907	-0.193745	-27.177569	
1.00000	-2.068679	-101.691198	-1.095959
-0.003907	-0.625257	-16.375722	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 3502

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.673545	39.136662	1.097958
0.003207	1.186618	72.334991	
0.57748	8.673545	39.136662	1.097958
0.003207	0.726203	56.602389	
0.71832	8.673545	39.136662	1.097958
0.003207	0.265587	44.073471	
0.85916	8.673545	39.136662	1.097958
0.003207	0.217430	45.336744	
1.00000	8.673545	39.136662	1.097958
0.003207	0.706110	65.964446	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-4.561006	-101.574107	-1.171396
-0.003449	-2.165454	-120.834247	
0.57748	-4.561006	-101.574107	-1.171396
-0.003449	-0.774268	-78.794632	
0.71832	-4.561006	-101.574107	-1.171396
-0.003449	-0.283090	-44.744874	
0.85916	-4.561006	-101.574107	-1.171396
-0.003449	-0.202099	-23.344266	
1.00000	-4.561006	-101.574107	-1.171396
-0.003449	-0.662128	-18.809119	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.112487	43.745852	0.435520
0.000467	0.469960	62.745510	
0.57748	1.112487	43.745852	0.435520
0.000467	0.287334	44.453395	
0.71832	1.112487	43.745852	0.435520
0.000467	0.104682	26.247119	
0.85916	1.112487	43.745852	0.435520
0.000467	0.059131	8.422365	
1.00000	1.112487	43.745852	0.435520
0.000467	0.234624	2.070737	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.202394	-6.933166	-0.394751
-0.001242	-0.427595	-20.409890	
0.57748	-5.202394	-6.933166	-0.394751
-0.001242	-0.262063	-17.667372	
0.71832	-5.202394	-6.933166	-0.394751
-0.001242	-0.096611	-15.137524	
0.85916	-5.202394	-6.933166	-0.394751
-0.001242	-0.077926	-12.793453	
1.00000	-5.202394	-6.933166	-0.394751
-0.001242	-0.260563	-12.337900	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.322174	60.297639	0.631589
0.004187	0.681309	102.879409	
0.57748	5.322174	60.297639	0.631589
0.004187	0.416439	78.680391	
0.71832	5.322174	60.297639	0.631589
0.004187	0.151545	59.969113	
0.85916	5.322174	60.297639	0.631589
0.004187	0.143464	66.373824	
1.00000	5.322174	60.297639	0.631589
0.004187	0.434884	83.299050	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-7.252979	-91.109354	-0.707922
-0.006092	-0.766368	-81.927704	
0.57748	-7.252979	-91.109354	-0.707922
-0.006092	-0.469517	-44.189807	
0.71832	-7.252979	-91.109354	-0.707922
-0.006092	-0.172736	-19.869417	
0.85916	-7.252979	-91.109354	-0.707922
-0.006092	-0.128705	-11.370390	
1.00000	-7.252979	-91.109354	-0.707922
-0.006092	-0.392481	-13.144102	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 3503

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.768641	60.319364	0.842795
0.003293	0.910701	104.028679	
0.57748	6.768641	60.319364	0.842795
0.003293	0.557279	79.666407	
0.71832	6.768641	60.319364	0.842795
0.003293	0.203791	59.592728	
0.85916	6.768641	60.319364	0.842795
0.003293	0.189292	57.409988	
1.00000	6.768641	60.319364	0.842795
0.003293	0.603910	67.765627	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-6.894270	-89.885841	-0.997543
-0.004478	-1.078819	-101.405767	
0.57748	-6.894270	-89.885841	-0.997543
-0.004478	-0.660520	-64.157550	
0.71832	-6.894270	-89.885841	-0.997543
-0.004478	-0.242279	-36.119595	
0.85916	-6.894270	-89.885841	-0.997543
-0.004478	-0.160121	-18.967877	
1.00000	-6.894270	-89.885841	-0.997543
-0.004478	-0.512822	-12.682079	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.317542	52.017898	1.081456
0.003385	1.168693	89.537004	
0.57748	8.317542	52.017898	1.081456
0.003385	0.715195	68.396284	
0.71832	8.317542	52.017898	1.081456
0.003385	0.261543	50.828637	
0.85916	8.317542	52.017898	1.081456
0.003385	0.214196	48.099727	
1.00000	8.317542	52.017904	1.081456
0.003385	0.691961	59.456706	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.904565	-90.726612	-1.146592
-0.003970	-1.239130	-112.106365	
0.57748	-5.904565	-90.726612	-1.146592
-0.003970	-0.758332	-74.752367	
0.71832	-5.904565	-90.726612	-1.146592
-0.003970	-0.277565	-46.520210	
0.85916	-5.904565	-90.726612	-1.146592
-0.003970	-0.200468	-29.769431	
1.00000	-5.904565	-90.726612	-1.146592
-0.003970	-0.653436	-22.162206	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.582265	6.338568	1.109212
0.001078	1.197547	9.224415	
0.57748	4.582265	6.338568	1.109212
0.001078	0.732215	7.033298	
0.71832	4.582265	6.338568	1.109212
0.001078	0.266640	4.978248	
0.85916	4.582265	6.338568	1.109212
0.001078	0.181255	3.475458	
1.00000	4.582265	6.338568	1.109212
0.001078	0.608895	10.856604	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.934734	-32.391513	-1.020028
-0.000496	-1.102090	-48.145603	
0.57748	-0.934734	-32.391513	-1.020028
-0.000496	-0.674378	-34.678013	
0.71832	-0.934734	-32.391513	-1.020028
-0.000496	-0.246661	-21.782756	
0.85916	-0.934734	-32.391513	-1.020028
-0.000496	-0.196626	-11.364404	
1.00000	-0.934734	-32.391513	-1.020028
-0.000496	-0.662321	-8.947289	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 3504

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	10.784344	8.956386	1.772538
0.001887	1.915869	12.220247	
0.57748	10.784344	8.956386	1.772538
0.001887	1.172256	8.639602	
0.71832	10.784344	8.956386	1.772538
0.001887	0.428279	5.358671	
0.85916	10.784344	8.956386	1.772538
0.001887	0.326462	3.511823	
1.00000	10.784344	8.956386	1.772538
0.001887	1.089467	16.649266	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.914937	-69.466125	-1.820312
-0.000762	-1.964223	-119.761970	
0.57748	-0.914937	-69.466125	-1.820312
-0.000762	-1.200935	-90.963554	
0.71832	-0.914937	-69.466125	-1.820312
-0.000762	-0.437758	-62.919124	
0.85916	-0.914937	-69.466125	-1.820312
-0.000762	-0.312060	-38.222581	
1.00000	-0.914937	-69.466125	-1.820312
-0.000762	-1.056371	-25.937752	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.522435	21.494617	2.067900
0.001665	2.235747	43.991027	
0.57748	11.522435	21.494617	2.067900
0.001665	1.368097	35.501094	
0.71832	11.522435	21.494617	2.067900
0.001665	0.499893	28.541118	
0.85916	11.522435	21.494617	2.067900
0.001665	0.395745	23.983021	
1.00000	11.522435	21.494617	2.067900
0.001665	1.323990	36.754438	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.964903	-85.263922	-2.214797
-0.000600	-2.391130	-130.633774	
0.57748	-1.964903	-85.263922	-2.214797
-0.000600	-1.462241	-95.511361	
0.71832	-1.964903	-85.263922	-2.214797
-0.000600	-0.533807	-62.167652	
0.85916	-1.964903	-85.263922	-2.214797
-0.000600	-0.362549	-32.995278	
1.00000	-1.964903	-85.263922	-2.214797
-0.000600	-1.231176	-18.358030	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.507745	35.722027	2.070546
0.003122	2.235857	68.412074	
0.57748	12.507745	35.722027	2.070546
0.003122	1.367129	54.493006	
0.71832	12.507745	35.722027	2.070546
0.003122	0.498918	45.470277	
0.85916	12.507745	35.722027	2.070546
0.003122	0.406790	51.884695	
1.00000	12.507745	35.722027	2.070546
0.003122	1.337618	81.565908	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-4.668431	-128.184985	-2.223721
-0.003294	-2.400106	-157.532573	
0.57748	-4.668431	-128.184985	-2.223721
-0.003294	-1.467523	-104.822912	
0.71832	-4.668431	-128.184985	-2.223721
-0.003294	-0.536237	-59.078366	
0.85916	-4.668431	-128.184985	-2.223721
-0.003294	-0.372815	-27.746271	
1.00000	-4.668431	-128.184985	-2.223721
-0.003294	-1.241942	-17.786235	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
3505

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.321307	3.485130	0.680418
0.000668	0.737114	4.781934	
0.57748	6.321307	3.485130	0.680418
0.000668	0.451649	3.386016	
0.71832	6.321307	3.485130	0.680418
0.000668	0.165930	2.057821	
0.85916	6.321307	3.485130	0.680418
0.000668	0.154742	2.222800	
1.00000	6.321307	3.485130	0.680418
0.000668	0.513743	7.942563	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.210583	-39.461155	-0.856483
-7.89E-05	-0.922927	-71.768911	
0.57748	-0.210583	-39.461155	-0.856483
-7.89E-05	-0.563935	-55.493053	
0.71832	-0.210583	-39.461155	-0.856483
-7.89E-05	-0.204631	-39.560769	
0.85916	-0.210583	-39.461155	-0.856483
-7.89E-05	-0.117652	-25.639562	
1.00000	-0.210583	-39.461155	-0.856483
-7.89E-05	-0.403603	-15.968957	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.629981	20.054235	1.128253
0.002912	1.218822	46.245971	
0.57748	9.629981	20.054235	1.128253
0.002912	0.745285	39.210398	
0.71832	9.629981	20.054235	1.128253
0.002912	0.271749	38.338815	
0.85916	9.629981	20.054235	1.128253
0.002912	0.264629	56.795499	
1.00000	9.629981	20.054235	1.128253
0.002912	0.841438	83.214165	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-2.216012	-105.977783	-1.382001
-0.003574	-1.488296	-117.200119	
0.57748	-2.216012	-105.977783	-1.382001
-0.003574	-0.908599	-73.941874	
0.71832	-2.216012	-105.977783	-1.382001
-0.003574	-0.331100	-40.034747	
0.85916	-2.216012	-105.977783	-1.382001
-0.003574	-0.208769	-21.036843	
1.00000	-2.216012	-105.977783	-1.382001
-0.003574	-0.682657	-8.499797	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	13.292269	22.108124	1.833927
0.003463	1.981598	47.012277	
0.57748	13.292269	22.108124	1.833927
0.003463	1.212251	38.951452	
0.71832	13.292269	22.108124	1.833927
0.003463	0.443811	36.420370	
0.85916	13.292269	22.108124	1.833927
0.003463	0.384553	51.535409	
1.00000	13.292269	22.108124	1.833927
0.003463	1.247062	81.131904	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-2.279258	-124.781476	-2.062701
-0.003573	-2.223406	-151.884768	
0.57748	-2.279258	-124.781476	-2.062701
-0.003573	-1.358421	-100.615836	
0.71832	-2.279258	-124.781476	-2.062701
-0.003573	-0.495164	-58.366622	
0.85916	-2.279258	-124.781476	-2.062701
-0.003573	-0.431986	-31.006958	
1.00000	-2.279258	-124.781476	-2.062701
-0.003573	-1.102159	-16.014699	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
3506

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	12.009175	50.966768	1.943108
0.002702	2.098801	87.507780	
0.57748	12.009175	50.966768	1.943108
0.002702	1.283486	67.213324	
0.71832	12.009175	50.966768	1.943108
0.002702	0.468431	50.712993	
0.85916	12.009175	50.966768	1.943108
0.002702	0.392905	46.339940	
1.00000	12.009175	50.966768	1.943108
0.002702	1.296693	68.137844	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-6.500913	-118.351018	-2.158267
-0.003099	-2.330329	-150.723449	
0.57748	-6.500913	-118.351018	-2.158267
-0.003099	-1.425194	-101.921783	
0.71832	-6.500913	-118.351018	-2.158267
-0.003099	-0.521168	-59.086172	
0.85916	-6.500913	-118.351018	-2.158267
-0.003099	-0.348627	-27.214720	
1.00000	-6.500913	-118.351018	-2.158267
-0.003099	-1.164681	-20.472944	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	1.502037	71.406118	0.693631
0.000437	0.747664	96.221219	
0.57748	1.502037	71.406118	0.693631
0.000437	0.456737	66.486852	
0.71832	1.502037	71.406118	0.693631
0.000437	0.165769	36.926874	
0.85916	1.502037	71.406118	0.693631
0.000437	0.126355	8.877932	
1.00000	1.502037	71.406118	0.693631
0.000437	0.431731	3.203544	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.701996	-11.093448	-0.726657
-0.001341	-0.788331	-23.104370	
0.57748	-8.701996	-11.093448	-0.726657
-0.001341	-0.484263	-18.630411	
0.71832	-8.701996	-11.093448	-0.726657
-0.001341	-0.179928	-14.323311	
0.85916	-8.701996	-11.093448	-0.726657
-0.001341	-0.124166	-11.345318	
1.00000	-8.701996	-11.093448	-0.726657
-0.001341	-0.415542	-27.656519	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.994314	87.495704	1.082586
0.003828	1.164061	136.427395	
0.57748	5.994314	87.495704	1.082586
0.003828	0.709894	101.207586	
0.71832	5.994314	87.495704	1.082586
0.003828	0.258103	73.230105	
0.85916	5.994314	87.495704	1.082586
0.003828	0.227046	70.974030	
1.00000	5.994314	87.495704	1.082586
0.003828	0.713504	93.049844	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.198809	-97.800433	-1.165295
-0.006458	-1.258336	-86.256054	
0.57748	-11.198809	-97.800433	-1.165295
-0.006458	-0.769792	-46.589220	
0.71832	-11.198809	-97.800433	-1.165295
-0.006458	-0.283021	-18.537108	
0.85916	-11.198809	-97.800433	-1.165295
-0.006458	-0.211775	-10.076849	
1.00000	-11.198809	-97.800433	-1.165295
-0.006458	-0.699338	-25.578647	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
3507

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.611105	82.548339	1.498771
0.003108	1.616541	128.461015	
0.57748	8.611105	82.548339	1.498771
0.003108	0.987714	95.087892	
0.71832	8.611105	82.548339	1.498771
0.003108	0.360158	67.701136	
0.85916	8.611105	82.548339	1.498771
0.003108	0.320007	61.316270	
1.00000	8.611105	82.548339	1.498771
0.003108	1.037375	80.461349	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.322629	-105.710247	-1.715239
-0.004913	-1.852511	-112.574903	
0.57748	-10.322629	-105.710247	-1.715239
-0.004913	-1.133230	-69.292811	
0.71832	-10.322629	-105.710247	-1.715239
-0.004913	-0.416073	-35.252176	
0.85916	-10.322629	-105.710247	-1.715239
-0.004913	-0.276747	-17.230015	
1.00000	-10.322629	-105.710247	-1.715239
-0.004913	-0.906475	-23.802295	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	11.990571	71.857015	1.875281
0.003267	2.024735	111.406601	
0.57748	11.990571	71.857015	1.875281
0.003267	1.237986	82.327787	
0.71832	11.990571	71.857015	1.875281
0.003267	0.452193	58.246181	
0.85916	11.990571	71.857015	1.875281
0.003267	0.390754	51.468066	
1.00000	11.990571	71.857015	1.875281
0.003267	1.277965	71.081003	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.820034	-116.061447	-2.119461
-0.004310	-2.287852	-144.929225	
0.57748	-8.820034	-116.061447	-2.119461
-0.004310	-1.399062	-97.204417	
0.71832	-8.820034	-116.061447	-2.119461
-0.004310	-0.511928	-57.815425	
0.85916	-8.820034	-116.061447	-2.119461
-0.004310	-0.340201	-22.326403	
1.00000	-8.820034	-116.061447	-2.119461
-0.004310	-1.127886	-31.042400	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.302295	60.319364	1.167111
0.004187	1.261797	104.028679	
0.57748	9.302295	60.319364	1.167111
0.004187	0.772400	79.666407	
0.71832	9.302295	60.319364	1.167111
0.004187	0.282630	59.969113	
0.85916	9.302295	60.319364	1.167111
0.004187	0.227210	66.373824	
1.00000	9.302295	60.319364	1.167111
0.004187	0.731903	83.299050	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-7.252979	-111.591679	-1.211195
-0.006092	-1.307903	-125.442136	
0.57748	-7.252979	-111.591679	-1.211195
-0.006092	-0.800033	-79.240571	
0.71832	-7.252979	-111.591679	-1.211195
-0.006092	-0.292166	-46.520210	
0.85916	-7.252979	-111.591679	-1.211195
-0.006092	-0.214750	-31.824281	
1.00000	-7.252979	-111.591679	-1.211195
-0.006092	-0.699627	-26.140143	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
3508

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	13.292269	87.495704	2.070546
0.003828	2.235857	136.427395	
0.57748	13.292269	87.495704	2.070546
0.003828	1.368097	101.207586	
0.71832	13.292269	87.495704	2.070546
0.003828	0.499893	73.230105	
0.85916	13.292269	87.495704	2.070546
0.003828	2.406790	70.974030	
1.00000	13.292269	87.495704	2.070546
0.003828	1.337618	93.049844	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.198809	-128.184985	-2.223721
-0.006458	-2.400106	-157.532573	
0.57748	-11.198809	-128.184985	-2.223721
-0.006458	-1.467523	-104.822912	
0.71832	-11.198809	-128.184985	-2.223721
-0.006458	-0.536237	-62.919124	
0.85916	-11.198809	-128.184985	-2.223721
-0.006458	-0.372815	-38.222581	
1.00000	-11.198809	-128.184985	-2.223721
-0.006458	-1.241942	-31.042400	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	13.292269	87.495704	2.070546
0.004187	2.235857	136.427395	
0.57748	13.292269	87.495704	2.070546
0.004187	1.368097	101.207586	
0.71832	13.292269	87.495704	2.070546
0.004187	0.499893	73.230105	
0.85916	13.292269	87.495704	2.070546
0.004187	0.406790	70.974030	
1.00000	13.292269	87.495704	2.070546
0.004187	1.337618	93.049844	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.198809	-128.184985	-2.223721
-0.006458	-2.400106	-157.532573	
0.57748	-11.198809	-128.184985	-2.223721
-0.006458	-1.467523	-104.822912	
0.71832	-11.198809	-128.184985	-2.223721
-0.006458	-0.536237	-62.919124	
0.85916	-11.198809	-128.184985	-2.223721
-0.006458	-0.372815	-38.222581	
1.00000	-11.198809	-128.184985	-2.223721
-0.006458	-1.241942	-31.042400	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	13.292269	87.495704	2.070546
0.004187	2.235857	136.427395	
0.57748	13.292269	87.495704	2.070546
0.004187	1.368097	101.207586	
0.71832	13.292269	87.495704	2.070546
0.004187	0.499893	73.230105	
0.85916	13.292269	87.495704	2.070546
0.004187	0.241902	70.974030	
1.00000	13.292269	87.495704	2.070546
0.004187	1.337618	93.049844	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-11.198809	-128.184985	-2.223721
-0.006458	-2.400106	-157.532573	
0.57748	-11.198809	-128.184985	-2.223721
-0.006458	-1.467523	-104.822912	
0.71832	-11.198809	-128.184985	-2.223721
-0.006458	-0.536237	-62.919124	
0.85916	-11.198809	-128.184985	-2.223721
-0.006458	-0.372815	-38.222581	
1.00000	-11.198809	-128.184985	-2.223721
-0.006458	-1.241942	-31.042400	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
3509

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 333 ========== LENGTH = 2.977323

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.599618	3.066777	0.633916
0.000723	0.375794	7.606129	
0.14084	2.599618	3.066777	0.633916
0.000723	0.109942	16.066323	
0.28168	2.599618	3.066777	0.633916
0.000723	0.122369	24.605108	
0.42252	2.599618	3.066777	0.633916
0.000723	0.332274	33.174674	
0.56337	2.599618	3.066777	0.633916
0.000723	0.542182	41.758552	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.808076	-20.493768	-0.500577
-0.000408	-0.297477	-8.568573	
0.14084	-0.808076	-20.493768	-0.500577
-0.000408	-0.087552	-7.733551	
0.28168	-0.808076	-20.493768	-0.500577
-0.000408	-0.155855	-7.223530	
0.42252	-0.808076	-20.493768	-0.500577
-0.000408	-0.421677	-6.956889	
0.56337	-0.808076	-20.493768	-0.500577
-0.000408	-0.687498	-6.893672	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.165755	6.184433	1.040261
0.001444	0.618500	13.007413	
0.14084	6.165755	6.184433	1.040261
0.001444	0.182373	27.853971	
0.28168	6.165755	6.184433	1.040261
0.001444	0.209552	43.727012	
0.42252	6.165755	6.184433	1.040261
0.001444	0.566286	60.479927	
0.56337	6.165755	6.184433	1.040261
0.001444	0.923045	77.586003	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.587677	-41.253393	-0.850853
-0.000740	-0.504883	-26.138551	
0.14084	-0.587677	-41.253393	-0.850853
-0.000740	-0.148164	-21.167359	
0.28168	-0.587677	-41.253393	-0.850853
-0.000740	-0.254083	-17.082577	
0.42252	-0.587677	-41.253393	-0.850853
-0.000740	-0.690330	-14.045388	
0.56337	-0.587677	-41.253393	-0.850853
-0.000740	-1.126532	-12.734704	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.947897	19.916320	1.176881
0.001688	0.700856	26.459717	
0.14084	6.947897	19.916320	1.176881
0.001688	0.207168	41.101818	
0.28168	6.947897	19.916320	1.176881
0.001688	0.272232	57.776600	
0.42252	6.947897	19.916320	1.176881
0.001688	0.735316	80.706558	
0.56337	6.947897	19.916320	1.176881
0.001688	1.198449	103.770939	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.652726	-55.349971	-1.104506
-0.000516	-0.654211	-17.404030	
0.14084	-1.652726	-55.349971	-1.104506
-0.000516	-0.191063	-15.004021	
0.28168	-1.652726	-55.349971	-1.104506
-0.000516	-0.286080	-16.819123	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
3510

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42252	-1.652726	-55.349971	-1.104506
-0.000516	-0.779682	-21.067726	
0.56337	-1.652726	-55.349971	-1.104506
-0.000516	-1.273189	-26.241634	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.151391	58.194103	1.159225
0.004318	0.692951	78.132041	
0.14084	7.151391	58.194103	1.159225
0.004318	0.210571	87.576401	
0.28168	7.151391	58.194103	1.159225
0.004318	0.291313	98.733821	
0.42252	7.151391	58.194103	1.159225
0.004318	0.787883	126.421898	
0.56337	7.151391	58.194103	1.159225
0.004318	1.284520	158.483675	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.147755	-77.329624	-1.184396
-0.002934	-0.715560	-16.899689	
0.14084	-5.147755	-77.329624	-1.184396
-0.002934	-0.219482	-19.116201	
0.28168	-5.147755	-77.329624	-1.184396
-0.002934	-0.282377	-24.970869	
0.42252	-5.147755	-77.329624	-1.184396
-0.002934	-0.768533	-33.736346	
0.56337	-5.147755	-77.329624	-1.184396
-0.002934	-1.254636	-53.129650	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.923187	2.518470	0.404469
0.000655	0.241902	6.235179	
0.14084	3.923187	2.518470	0.404469
0.000655	0.072338	12.522965	
0.28168	3.923187	2.518470	0.404469
0.000655	0.100086	21.426398	
0.42252	3.923187	2.518470	0.404469
0.000655	0.267866	31.470663	
0.56337	3.923187	2.518470	0.404469
0.000655	0.435665	41.657392	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.138650	-24.763475	-0.400231
-0.000107	-0.235786	-17.229403	
0.14084	-0.138650	-24.763475	-0.400231
-0.000107	-0.068009	-13.053997	
0.28168	-0.138650	-24.763475	-0.400231
-0.000107	-0.097233	-10.597456	
0.42252	-0.138650	-24.763475	-0.400231
-0.000107	-0.266904	-8.966289	
0.56337	-0.138650	-24.763475	-0.400231
-0.000107	-0.436549	-8.092354	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.766824	62.014519	0.618058
0.004831	0.373485	79.642595	
0.14084	4.766824	62.014519	0.618058
0.004831	0.119504	67.766411	
0.28168	4.766824	62.014519	0.618058
0.004831	0.187746	58.191704	
0.42252	4.766824	62.014519	0.618058
0.004831	0.505241	70.977090	
0.56337	4.766824	62.014519	0.618058
0.004831	0.822794	89.763000	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.493329	-45.990605	-0.757341
-0.003144	-0.465936	-8.848320	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
3511

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14084	-4.493329	-45.990605	-0.757341
-0.003144	-0.149130	-7.742743	
0.28168	-4.493329	-45.990605	-0.757341
-0.003144	-0.149104	-11.115161	
0.42252	-4.493329	-45.990605	-0.757341
-0.003144	-0.408383	-18.105429	
0.56337	-4.493329	-45.990605	-0.757341
-0.003144	-0.667560	-39.529146	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.776837	57.969815	1.042615
0.004934	0.625144	76.607654	
0.14084	6.776837	57.969815	1.042615
0.004934	0.192588	73.077239	
0.28168	6.776837	57.969815	1.042615
0.004934	0.262009	71.696332	
0.42252	6.776837	57.969815	1.042615
0.004934	0.707814	90.495784	
0.56337	6.776837	57.969815	1.042615
0.004934	1.153673	114.703593	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.161695	-58.824742	-1.063303
-0.003138	-0.646476	-16.371434	
0.14084	-4.161695	-58.824742	-1.063303
-0.003138	-0.201205	-14.413268	
0.28168	-4.161695	-58.824742	-1.063303
-0.003138	-0.253072	-16.470926	
0.42252	-4.161695	-58.824742	-1.063303
-0.003138	-0.690390	-21.636382	
0.56337	-4.161695	-58.824742	-1.063303
-0.003138	-1.127595	-39.772408	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.032576	62.594659	1.105894
0.003750	0.661432	66.067790	
0.14084	7.032576	62.594659	1.105894
0.003750	0.200638	76.464905	
0.28168	7.032576	62.594659	1.105894
0.003750	0.283014	89.098647	
0.42252	7.032576	62.594659	1.105894
0.003750	0.765676	116.167006	
0.56337	7.032576	62.594659	1.105894
0.003750	1.248386	146.811298	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.941596	-73.849613	-1.151176
-0.002717	-0.693508	-18.796177	
0.14084	-5.941596	-73.849613	-1.151176
-0.002717	-0.211170	-25.429898	
0.28168	-5.941596	-73.849613	-1.151176
-0.002717	-0.268546	-35.728444	
0.42252	-5.941596	-73.849613	-1.151176
-0.002717	-0.732406	-48.597416	
0.56337	-5.941596	-73.849613	-1.151176
-0.002717	-1.196162	-70.166935	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.154078	43.844633	0.431218
0.000478	0.256698	2.067694	
0.14084	1.154078	43.844633	0.431218
0.000478	0.075833	3.045265	
0.28168	1.154078	43.844633	0.431218
0.000478	0.099386	4.278076	
0.42252	1.154078	43.844633	0.431218
0.000478	0.270193	5.590467	
0.56337	1.154078	43.844633	0.431218
0.000478	0.441036	7.025835	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3512

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.248650	-7.127891	-0.407419
-0.001199	-0.242408	-12.323692	
0.14084	-5.248650	-7.127891	-0.407419
-0.001199	-0.071654	-29.951531	
0.28168	-5.248650	-7.127891	-0.407419
-0.001199	-0.104931	-47.887755	
0.42252	-5.248650	-7.127891	-0.407419
-0.001199	-0.285776	-66.073927	
0.56337	-5.248650	-7.127891	-0.407419
-0.001199	-0.466599	-84.338667	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.180394	108.768389	0.619045
0.005335	0.373009	83.489916	
0.14084	2.180394	108.768389	0.619045
0.005335	0.119830	63.256101	
0.28168	2.180394	108.768389	0.619045
0.005335	0.176432	48.742354	
0.42252	2.180394	108.768389	0.619045
0.005335	0.479207	54.065792	
0.56337	2.180394	108.768389	0.619045
0.005335	0.782021	67.809522	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.298759	-33.928195	-0.722169
-0.004988	-0.451697	-13.124406	
0.14084	-10.298759	-33.928195	-0.722169
-0.004988	-0.149880	-32.223032	
0.28168	-10.298759	-33.928195	-0.722169
-0.004988	-0.151420	-52.308549	
0.42252	-10.298759	-33.928195	-0.722169
-0.004988	-0.411009	-76.171245	
0.56337	-10.298759	-33.928195	-0.722169
-0.004988	-0.670623	-117.137527	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.573098	93.476409	0.851468
0.004369	0.511398	67.902732	
0.14084	4.573098	93.476409	0.851468
0.004369	0.158658	60.406663	
0.28168	4.573098	93.476409	0.851468
0.004369	0.243630	57.068069	
0.42252	4.573098	93.476409	0.851468
0.004369	0.658976	72.936071	
0.56337	4.573098	93.476409	0.851468
0.004369	1.074401	93.760547	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.948831	-50.672013	-0.990735
-0.003706	-0.602757	-12.663713	
0.14084	-8.948831	-50.672013	-0.990735
-0.003706	-0.188038	-30.200892	
0.28168	-8.948831	-50.672013	-0.990735
-0.003706	-0.206232	-51.939251	
0.42252	-8.948831	-50.672013	-0.990735
-0.003706	-0.563339	-76.381502	
0.56337	-8.948831	-50.672013	-0.990735
-0.003706	-0.920411	-112.514489	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.441785	79.435665	1.090945
0.004109	0.653249	59.574711	
0.14084	6.441785	79.435665	1.090945
0.004109	0.199342	59.602500	
0.28168	6.441785	79.435665	1.090945
0.004109	0.277916	63.401576	
0.42252	6.441785	79.435665	1.090945
0.004109	0.751773	83.252936	
0.56337	6.441785	79.435665	1.090945
0.004109	1.225680	107.266180	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3513

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.549573	-58.246349	-1.130229
-0.003304	-0.662803	-22.146031	
0.14084	-7.549573	-58.246349	-1.130229
-0.003304	-0.209474	-34.299271	
0.28168	-7.549573	-58.246349	-1.130229
-0.003304	-0.264588	-50.108490	
0.42252	-7.549573	-58.246349	-1.130229
-0.003304	-0.722132	-68.610031	
0.56337	-7.549573	-58.246349	-1.130229
-0.003304	-1.179620	-97.344721	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.451113	6.329437	1.083237
0.000745	0.641857	10.865659	
0.14084	4.451113	6.329437	1.083237
0.000745	0.187031	23.255233	
0.28168	4.451113	6.329437	1.083237
0.000745	0.247816	36.221874	
0.42252	4.451113	6.329437	1.083237
0.000745	0.675505	49.416955	
0.56337	4.451113	6.329437	1.083237
0.000745	1.103259	62.743127	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.852239	-32.427630	-1.020055
-0.000387	-0.607727	-8.951868	
0.14084	-0.852239	-32.427630	-1.020055
-0.000387	-0.180083	-9.692233	
0.28168	-0.852239	-32.427630	-1.020055
-0.000387	-0.265373	-11.089656	
0.42252	-0.852239	-32.427630	-1.020055
-0.000387	-0.720083	-12.788917	
0.56337	-0.852239	-32.427630	-1.020055
-0.000387	-1.174478	-14.714093	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.505645	9.861605	1.783352
0.001420	1.061974	16.670043	
0.14084	10.505645	9.861605	1.783352
0.001420	0.313308	40.051705	
0.28168	10.505645	9.861605	1.783352
0.001420	0.432325	65.533984	
0.42252	10.505645	9.861605	1.783352
0.001420	1.168710	92.026853	
0.56337	10.505645	9.861605	1.783352
0.001420	1.905207	119.405810	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.832917	-68.103246	-1.756509
-0.000635	-1.041560	-25.942316	
0.14084	-0.832917	-68.103246	-1.756509
-0.000635	-0.305547	-22.432562	
0.28168	-0.832917	-68.103246	-1.756509
-0.000635	-0.431857	-21.301531	
0.42252	-0.832917	-68.103246	-1.756509
-0.000635	-1.180340	-22.072391	
0.56337	-0.832917	-68.103246	-1.756509
-0.000635	-1.928516	-24.035441	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.289287	21.126060	2.090810
0.001625	1.245227	36.783632	
0.14084	11.289287	21.126060	2.090810
0.001625	0.367145	64.279130	
0.28168	11.289287	21.126060	2.090810
0.001625	0.527216	94.902616	
0.42252	11.289287	21.126060	2.090810
0.001625	1.404128	128.645589	
0.56337	11.289287	21.126060	2.090810
0.001625	2.321418	163.253246	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3514

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.797921	-84.970110	-2.139400
-0.000484	-1.267351	-18.362870	
0.14084	-1.797921	-84.970110	-2.139400
-0.000484	-0.370867	-16.894095	
0.28168	-1.797921	-84.970110	-2.139400
-0.000484	-0.505134	-21.190017	
0.42252	-1.797921	-84.970110	-2.139400
-0.000484	-1.382899	-27.290878	
0.56337	-1.797921	-84.970110	-2.139400
-0.000484	-2.260211	-34.045730	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.792689	59.328028	2.072029
0.003699	1.237152	81.608469	
0.14084	10.792689	59.328028	2.072029
0.003699	0.369102	103.761897	
0.28168	10.792689	59.328028	2.072029
0.003699	0.533810	129.047609	
0.42252	10.792689	59.328028	2.072029
0.003699	1.445877	164.573548	
0.56337	10.792689	59.328028	2.072029
0.003699	2.359049	205.536076	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.062529	-101.267030	-2.178347
-0.002213	-1.304001	-17.780867	
0.14084	-6.062529	-101.267030	-2.178347
-0.002213	-0.391394	-22.386843	
0.28168	-6.062529	-101.267030	-2.178347
-0.002213	-0.502356	-32.197865	
0.42252	-6.062529	-101.267030	-2.178347
-0.002213	-0.837126	-45.086824	
0.56337	-6.062529	-101.267030	-2.178347
-0.002213	-2.240618	-67.554929	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.234951	3.402936	0.722303
0.000639	0.433566	7.956856	
0.14084	6.234951	3.402936	0.722303
0.000639	0.130185	20.031331	
0.28168	6.234951	3.402936	0.722303
0.000639	0.197431	34.431770	
0.42252	6.234951	3.402936	0.722303
0.000639	0.527291	49.539530	
0.56337	6.234951	3.402936	0.722303
0.000639	0.856982	65.142934	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.157716	-39.065007	-0.786558
-8.55E-05	-0.462508	-15.970152	
0.14084	-0.157716	-39.065007	-0.786558
-8.55E-05	-0.132965	-11.958116	
0.28168	-0.157716	-39.065007	-0.786558
-8.55E-05	-0.171286	-9.888571	
0.42252	-0.157716	-39.065007	-0.786558
-8.55E-05	-0.474498	-9.396552	
0.56337	-0.157716	-39.065007	-0.786558
-8.55E-05	-0.777537	-9.527610	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.200512	56.030173	1.161561
0.004310	0.700860	83.266464	
0.14084	7.200512	56.030173	1.161561
0.004310	0.216015	83.601009	
0.28168	7.200512	56.030173	1.161561
0.004310	0.324313	86.554294	
0.42252	7.200512	56.030173	1.161561
0.004310	0.872418	104.183773	
0.56337	7.200512	56.030173	1.161561
0.004310	1.422234	129.565596	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3515

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.470830	-64.258767	-1.312525
-0.002401	-0.793254	-8.496470	
0.14084	-4.470830	-64.258767	-1.312525
-0.002401	-0.243866	-7.277794	
0.28168	-4.470830	-64.258767	-1.312525
-0.002401	-0.278425	-10.885652	
0.42252	-4.470830	-64.258767	-1.312525
-0.002401	-0.764496	-18.117353	
0.56337	-4.470830	-64.258767	-1.312525
-0.002401	-1.251984	-39.769840	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.998532	54.664574	1.867725
0.004494	1.120202	81.186007	
0.14084	10.998532	54.664574	1.867725
0.004494	0.338459	92.473941	
0.28168	10.998532	54.664574	1.867725
0.004494	0.487838	106.534927	
0.42252	10.998532	54.664574	1.867725
0.004494	1.316371	134.051919	
0.56337	10.998532	54.664574	1.867725
0.004494	2.146307	168.594000	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.245991	-86.958307	-1.980552
-0.002443	-1.188454	-16.014784	
0.14084	-4.245991	-86.958307	-1.980552
-0.002443	-0.358823	-15.078117	
0.28168	-4.245991	-86.958307	-1.980552
-0.002443	-0.450016	-18.708214	
0.42252	-4.245991	-86.958307	-1.980552
-0.002443	-1.232548	-25.610976	
0.56337	-4.245991	-86.958307	-1.980552
-0.002443	-2.016213	-45.672906	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.579327	70.597685	1.959568
0.003263	1.170901	68.172166	
0.14084	10.579327	70.597685	1.959568
0.003263	0.349865	90.925312	
0.28168	10.579327	70.597685	1.959568
0.003263	0.519041	116.377968	
0.42252	10.579327	70.597685	1.959568
0.003263	1.403990	150.754595	
0.56337	10.579327	70.597685	1.959568
0.003263	2.289313	189.553032	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.642540	-95.996570	-2.112524
-0.002161	-1.262205	-20.456595	
0.14084	-7.642540	-95.996570	-2.112524
-0.002161	-0.376655	-32.836918	
0.28168	-7.642540	-95.996570	-2.112524
-0.002161	-0.473404	-49.629457	
0.42252	-7.642540	-95.996570	-2.112524
-0.002161	-1.295373	-68.829847	
0.56337	-7.642540	-95.996570	-2.112524
-0.002161	-2.117565	-96.129917	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.460466	71.657261	0.677029
0.000449	0.401947	3.196207	
0.14084	1.460466	71.657261	0.677029
0.000449	0.117625	5.635841	
0.28168	1.460466	71.657261	0.677029
0.000449	0.185089	8.204815	
0.42252	1.460466	71.657261	0.677029
0.000449	0.504619	11.215514	
0.56337	1.460466	71.657261	0.677029
0.000449	0.823767	15.653375	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3516

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.676213	-11.350974	-0.761321
-0.001276	-0.454304	-27.629869	
0.14084	-8.676213	-11.350974	-0.761321
-0.001276	-0.134290	-56.427243	
0.28168	-8.676213	-11.350974	-0.761321
-0.001276	-0.165452	-85.353463	
0.42252	-8.676213	-11.350974	-0.761321
-0.001276	-0.448471	-114.912330	
0.56337	-8.676213	-11.350974	-0.761321
-0.001276	-0.733435	-144.779641	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.641530	139.114884	1.043946
0.005414	0.628625	93.088169	
0.14084	2.641530	139.114884	1.043946
0.005414	0.194912	76.518861	
0.28168	2.641530	139.114884	1.043946
0.005414	0.290802	63.463361	
0.42252	2.641530	139.114884	1.043946
0.005414	0.795479	67.702178	
0.56337	2.641530	139.114884	1.043946
0.005414	1.301547	82.737916	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.470670	-39.509082	-1.208992
-0.004624	-0.746982	-25.545489	
0.14084	-14.470670	-39.509082	-1.208992
-0.004624	-0.239773	-55.878882	
0.28168	-14.470670	-39.509082	-1.208992
-0.004624	-0.256313	-87.735581	
0.42252	-14.470670	-39.509082	-1.208992
-0.004624	-0.692111	-124.910686	
0.56337	-14.470670	-39.509082	-1.208992
-0.004624	-1.130004	-181.770207	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.135734	119.707835	1.498489
0.004517	0.899094	80.501556	
0.14084	6.135734	119.707835	1.498489
0.004517	0.272622	80.615217	
0.28168	6.135734	119.707835	1.498489
0.004517	0.418650	84.154764	
0.42252	6.135734	119.707835	1.498489
0.004517	1.134341	102.133881	
0.56337	6.135734	119.707835	1.498489
0.004517	1.851823	127.645543	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.642503	-63.583688	-1.712188
-0.003577	-1.035384	-23.771584	
0.14084	-12.642503	-63.583688	-1.712188
-0.003577	-0.317413	-51.767113	
0.28168	-12.642503	-63.583688	-1.712188
-0.003577	-0.362876	-83.398042	
0.42252	-12.642503	-63.583688	-1.712188
-0.003577	-0.990398	-117.984140	
0.56337	-12.642503	-63.583688	-1.712188
-0.003577	-1.619076	-167.078383	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.858782	102.676194	1.894024
0.004251	1.134891	71.121826	
0.14084	9.858782	102.676194	1.894024
0.004251	0.342031	80.769424	
0.28168	9.858782	102.676194	1.894024
0.004251	0.510365	94.154506	
0.42252	9.858782	102.676194	1.894024
0.004251	1.379868	119.850454	
0.56337	9.858782	102.676194	1.894024
0.004251	2.250711	152.120545	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3517

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.684122	-80.906594	-2.077811
-0.003179	-1.247220	-31.018290	
0.14084	-10.684122	-80.906594	-2.077811
-0.003179	-0.376172	-52.319291	
0.28168	-10.684122	-80.906594	-2.077811
-0.003179	-0.457404	-77.707489	
0.42252	-10.684122	-80.906594	-2.077811
-0.003179	-1.251035	-106.126078	
0.56337	-10.684122	-80.906594	-2.077811
-0.003179	-2.045607	-146.898281	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.151391	108.768389	1.176881
0.005335	0.700856	83.489916	
0.14084	7.151391	108.768389	1.176881
0.005335	0.210571	87.576401	
0.28168	7.151391	108.768389	1.176881
0.005335	0.291313	98.733821	
0.42252	7.151391	108.768389	1.176881
0.005335	0.787883	126.421898	
0.56337	7.151391	108.768389	1.176881
0.005335	1.284520	158.483675	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.298759	-77.329624	-1.184396
-0.004988	-0.715560	-26.138551	
0.14084	-10.298759	-77.329624	-1.184396
-0.004988	-0.219482	-34.299271	
0.28168	-10.298759	-77.329624	-1.184396
-0.004988	-0.286080	-52.308549	
0.42252	-10.298759	-77.329624	-1.184396
-0.004988	-0.779682	-76.381502	
0.56337	-10.298759	-77.329624	-1.184396
-0.004988	-1.273189	-117.137527	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.289287	139.114884	2.090810
0.005414	1.245227	93.088169	
0.14084	11.289287	139.114884	2.090810
0.005414	0.369102	103.761897	
0.28168	11.289287	139.114884	2.090810
0.005414	0.533810	129.047609	
0.42252	11.289287	139.114884	2.090810
0.005414	1.445877	164.573548	
0.56337	11.289287	139.114884	2.090810
0.005414	2.359049	205.536076	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.470670	-101.267030	-2.178347
-0.004624	-1.304001	-31.018290	
0.14084	-14.470670	-101.267030	-2.178347
-0.004624	-0.391394	-56.427243	
0.28168	-14.470670	-101.267030	-2.178347
-0.004624	-0.505134	-87.735581	
0.42252	-14.470670	-101.267030	-2.178347
-0.004624	-1.382899	-124.910686	
0.56337	-14.470670	-101.267030	-2.178347
-0.004624	-2.260211	-181.770207	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.289287	139.114884	2.090810
0.005414	1.245227	93.088169	
0.14084	11.289287	139.114884	2.090810
0.005414	0.369102	103.761897	
0.28168	11.289287	139.114884	2.090810
0.005414	0.533810	129.047609	
0.42252	11.289287	139.114884	2.090810
0.005414	1.445877	164.573548	
0.56337	11.289287	139.114884	2.090810
0.005414	2.359049	205.536076	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3518

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.470670	-101.267030	-2.178347
-0.004988	-1.304001	-31.018290	
0.14084	-14.470670	-101.267030	-2.178347
-0.004988	-0.391394	-56.427243	
0.28168	-14.470670	-101.267030	-2.178347
-0.004988	-0.505134	-87.735581	
0.42252	-14.470670	-101.267030	-2.178347
-0.004988	-1.382899	-124.910686	
0.56337	-14.470670	-101.267030	-2.178347
-0.004988	-2.260211	-181.770207	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.289287	139.114884	2.090810
0.005414	1.245227	93.088169	
0.14084	11.289287	139.114884	2.090810
0.005414	0.369102	103.761897	

```
 0.28168    11.289287   139.114884    2.090810
 0.005414    0.533810   129.047609
 0.42252    11.289287   139.114884    2.090810
 0.005414    1.445877   164.573548
 0.56337    11.289287   139.114884    2.090810
 0.005414    2.359049   205.536076

COMB  DESIGN  ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -14.470670 -101.267030   -2.178347
-0.004988   -1.304001  -31.018290
 0.14084  -14.470670 -101.267030   -2.178347
-0.004988   -0.391394  -56.427243
 0.28168  -14.470670 -101.267030   -2.178347
-0.004988   -0.505134  -87.735581
 0.42252  -14.470670 -101.267030   -2.178347
-0.004988   -1.382899 -124.910686
 0.56337  -14.470670 -101.267030   -2.178347
-0.004988   -2.260211 -181.770207

ELEM      334 ================== LENGTH
=     2.976751

COMB DB-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    2.862526    2.430112    0.525052
 0.001179    0.585401    3.122657
 0.57754    2.862526    2.430112    0.525052
 0.001179    0.365315    2.337723
 0.71836    2.862526    2.430112    0.525052
 0.001179    0.145211    3.435545
 0.85918    2.862526    2.430112    0.525052
 0.001179    0.064208    6.018609
 1.00000    2.862526    2.430112    0.525052
 0.001179    0.252017   10.925629

COMB DB-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -1.150395  -17.360003   -0.447953
-9.10E-06   -0.311330  -21.970879
 0.57754   -1.150395  -17.360003   -0.447953
-9.10E-06   -0.311330  -22.456918
 0.71836   -1.150395  -17.360003   -0.447953
-9.10E-06   -0.123561  -23.012524
 0.85918   -1.150395  -17.360003   -0.447953
-9.10E-06   -0.074889  -23.645717
 1.00000   -1.150395  -17.360003   -0.447953
-9.10E-06   -0.295012  -24.343122

COMB DB-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    3.871543   11.051247    0.843878
 0.002170    0.941055   12.069966
 0.57754    3.871543   11.051247    0.843878
 0.002170    0.587388    8.326936
 0.71836    3.871543   11.051247    0.843878
 0.002170    0.233642    6.064371
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3519

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.85918    3.871543   11.051247    0.843878
 0.002170    0.115853    8.739940
 1.00000    3.871543   11.051247    0.843878
 0.002170    0.452603   17.303341

COMB DB-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -4.652864  -34.185242   -0.803529
-0.000195   -0.895021  -47.319636
 0.57754   -4.652864  -34.185242   -0.803529
-0.000195   -0.558381  -43.853748
 0.71836   -4.652864  -34.185242   -0.803529
-0.000195   -0.221786  -43.245514
 0.85918   -4.652864  -34.185242   -0.803529
-0.000195   -0.125686  -43.725051
 1.00000   -4.652864  -34.185242   -0.803529
-0.000195   -0.474535  -45.164803

COMB DB-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    4.019603   54.058194    0.897245
 0.001798    1.001002  115.021405
 0.57754    4.019603   54.058194    0.897245
 0.001798    0.624889   92.932972
 0.71836    4.019603   54.058194    0.897245
 0.001798    0.248571   70.604682
 0.85918    4.019603   54.058194    0.897245
 0.001798    0.152282   54.941883
 1.00000    4.019603   54.058194    0.897245
 0.001798    0.601047   44.075094

COMB DB-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -7.518043  -40.007066   -1.070761
-6.04E-06   -1.194377  -60.625249
 0.57754   -7.518043  -40.007066   -1.070761
-6.04E-06   -0.745542  -53.458682
 0.71836   -7.518043  -40.007066   -1.070761
-6.04E-06   -0.296811  -47.763568
 0.85918   -7.518043  -40.007066   -1.070761
-6.04E-06   -0.127128  -42.266704
 1.00000   -7.518043  -40.007066   -1.070761
-6.04E-06   -0.503477  -37.228020

COMB DB-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    9.251503   55.572341    0.914135
 0.004806    1.016201  118.723048
 0.57754    9.251503   55.572341    0.914135
 0.004806    0.634187   96.865430
 0.71836    9.251503   55.572341    0.914135
 0.004806    0.252020   81.464572
 0.85918    9.251503   55.572341    0.914135
 0.004806    0.178105   84.918803
 1.00000    9.251503   55.572341    0.914135
 0.004806    0.663819  104.198309

COMB DB-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -7.242314 -108.002596   -1.160092
-0.003817   -1.266170 -108.963335
 0.57754   -7.242314 -108.002596   -1.160092
-0.003817   -0.803485  -73.358930
 0.71836   -7.242314 -108.002596   -1.160092
-0.003817   -0.320967  -50.759112
 0.85918   -7.242314 -108.002596   -1.160092
-0.003817   -0.114521  -35.549180
 1.00000   -7.242314 -108.002596   -1.160092
-0.003817   -0.528101  -34.499331

COMB DB-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    0.788833   20.373277    0.302410
 0.000757    0.337570   32.657231
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3520

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.57754    0.788833   20.373277    0.302410
 0.000757    0.210844   24.651627
 0.71836    0.788833   20.373277    0.302410
 0.000757    0.083993   17.441601
 0.85918    0.788833   20.373277    0.302410
 0.000757    0.060388   12.109565
 1.00000    0.788833   20.373277    0.302410
 0.000757    0.237755    9.623156

COMB DB-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -4.487188  -17.090785   -0.423323
-1.24E-05   -0.472081  -31.555630
 0.57754   -4.487188  -17.090785   -0.423323
-1.24E-05   -0.294636  -25.490853
 0.71836   -4.487188  -17.090785   -0.423323
-1.24E-05   -0.117293  -21.310489
 0.85918   -4.487188  -17.090785   -0.423323
-1.24E-05   -0.042664  -17.613695
 1.00000   -4.487188  -17.090785   -0.423323
-1.24E-05   -0.169551  -14.860888

COMB DB-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    5.339948   60.785043    0.423033
 0.005137    0.467476  138.669823
 0.57754    5.339948   60.785043    0.423033
 0.005137    0.291761  114.324901
 0.71836    5.339948   60.785043    0.423033
 0.005137    0.115848   97.892445
 0.85918    5.339948   60.785043    0.423033
 0.005137    0.132232  100.503839
 1.00000    5.339948   60.785043    0.423033
 0.005137    0.465305  106.428942

COMB DB-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -6.870228  -81.609613   -0.796302
-0.004460   -0.876470  -69.851387
 0.57754   -6.870228  -81.609613   -0.796302
-0.004460   -0.547584  -38.904648
 0.71836   -6.870228  -81.609613   -0.796302
-0.004460   -0.218868  -25.745038
 0.85918   -6.870228  -81.609613   -0.796302
-0.004460   -0.080813  -18.685329
 1.00000   -6.870228  -81.609613   -0.796302
-0.004460   -0.257615  -12.820282

COMB DB-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    6.474244   56.740509    0.777940
 0.005538    0.863720  126.315674
 0.57754    6.474244   56.740509    0.777940
 0.005538    0.539084  104.097947
 0.71836    6.474244   56.740509    0.777940
 0.005538    0.214259   88.930483
 0.85918    6.474244   56.740509    0.777940
 0.005538    0.127312   81.222279
 1.00000    6.474244   56.740509    0.777940
 0.005538    0.611084  102.361923

COMB DB-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -7.896163  -87.673654   -1.060033
-0.004031   -1.172267  -80.307211
 0.57754   -7.896163  -87.673654   -1.060033
-0.004031   -0.732355  -53.208184
 0.71836   -7.896163  -87.673654   -1.060033
-0.004031   -0.292596  -41.885661
 0.85918   -7.896163  -87.673654   -1.060033
-0.004031   -0.129220  -36.069564
 1.00000   -7.896163  -87.673654   -1.060033
-0.004031   -0.454917  -31.339805
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3521

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    9.222660   63.262677    0.886285
 0.003888    0.985899  127.085889
 0.57754    9.222660   63.262677    0.886285
 0.003888    0.615335  102.120162
 0.71836    9.222660   63.262677    0.886285
 0.003888    0.244606   82.146353
 0.85918    9.222660   63.262677    0.886285
 0.003888    0.170589   75.472700
 1.00000    9.222660   63.262677    0.886285
 0.003888    0.647417   88.281031

COMB DB-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -8.133680 -107.536644   -1.138668
-0.003573   -1.265754 -122.584358
 0.57754   -8.133680 -107.536644   -1.138668
-0.003573   -0.791415  -85.190033
 0.71836   -8.133680 -107.536644   -1.138668
-0.003573   -0.317245  -58.360299
 0.85918   -8.133680 -107.536644   -1.138668
-0.003573   -0.143172  -35.157048
 1.00000   -8.133680 -107.536644   -1.138668
-0.003573   -0.509544  -31.983462

COMB DB-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    5.489720   31.664867    0.422528
 7.20E-06    0.471149   44.203611
 0.57754    5.489720   31.664867    0.422528
 7.20E-06    0.294032   31.055036
 0.71836    5.489720   31.664867    0.422528
 7.20E-06    0.116910   18.046345
 0.85918    5.489720   31.664867    0.422528
 7.20E-06    0.055188    5.732444
 1.00000    5.489720   31.664867    0.422528
 7.20E-06    0.218600    2.771271

COMB DB-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -3.206623  -41.253620   -0.392463
-0.001416   -0.441251  -81.721641
 0.57754   -3.206623  -41.253620   -0.392463
-0.001416   -0.276788  -64.478095
 0.71836   -3.206623  -41.253620   -0.392463
-0.001416   -0.112445  -47.261423
 0.85918   -3.206623  -41.253620   -0.392463
-0.001416   -0.060171  -30.059485
 1.00000   -3.206623  -41.253620   -0.392463
-0.001416   -0.237347  -13.507431

COMB DB-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   11.984731   55.410950    0.564761
 0.005535    0.623855  110.013292
 0.57754   11.984731   55.410950    0.564761
 0.005535    0.389092   87.975153
 0.71836   11.984731   55.410950    0.564761
 0.005535    0.154298   75.249625
 0.85918   11.984731   55.410950    0.564761
 0.005535    0.122405   85.070044
 1.00000   11.984731   55.410950    0.564761
 0.005535    0.423812  103.456370

COMB DB-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -4.602886 -127.891695   -0.721183
-0.007082   -0.793560 -133.923621
 0.57754   -4.602886 -127.891695   -0.721183
-0.007082   -0.497298  -83.119713
 0.71836   -4.602886 -127.891695   -0.721183
-0.007082   -0.201211  -52.119455
 0.85918   -4.602886 -127.891695   -0.721183
-0.007082   -0.106264  -28.353754
 1.00000   -4.602886 -127.891695   -0.721183
-0.007082   -0.342248  -14.019440
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3522

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   10.306125   81.397866    0.698425
 0.004058    0.775142  162.224860
 0.57754   10.306125   81.397866    0.698425
 0.004058    0.483740  129.072853
 0.71836   10.306125   81.397866    0.698425
 0.004058    0.192164  102.418042
 0.85918   10.306125   81.397866    0.698425
 0.004058    0.155144   92.218445
 1.00000   10.306125   81.397866    0.698425
 0.004058    0.575126   91.310387

COMB DB-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -8.033466 -115.216733   -1.003647
-0.005171   -1.113335 -140.550941
 0.57754   -8.033466 -115.216733   -1.003647
-0.005171   -0.696786  -94.263549
 0.71836   -8.033466 -115.216733   -1.003647
-0.005171   -0.280466  -61.643070
 0.85918   -8.033466 -115.216733   -1.003647
-0.005171   -0.116719  -34.069599
 1.00000   -8.033466 -115.216733   -1.003647
-0.005171   -0.408966  -15.355302

COMB DB-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    9.604588   71.682876    0.888937
 0.004095    0.988431  137.502465
 0.57754    9.604368   71.682876    0.888937
 0.004095    0.616916  108.873459
 0.71836    9.604368   71.682876    0.888937
 0.004095    0.245229   85.955122
 0.85918    9.604368   71.682876    0.888937
 0.004095    0.132956   77.132950
 1.00000    9.604368   71.682876    0.888937
 0.004095    0.645996   79.859561

COMB DB-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -8.960844 -107.904550   -1.133756
-0.004287   -1.259668 -134.534464
 0.57754   -8.960844 -107.904550   -1.133756
-0.004287   -0.787859  -95.309379
 0.71836   -8.960844 -107.904550   -1.133756
-0.004287   -0.316265  -68.654508
 0.85918   -8.960844 -107.904550   -1.133756
-0.004287   -0.140640  -46.218025
 1.00000   -8.960844 -107.904550   -1.133756
-0.004287   -0.512977  -31.237839

COMB DL-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    4.904791    5.291755    0.925710
 0.001266    1.033064    6.448820
 0.57754    4.904791    5.291755    0.925710
 0.001266    0.644805    5.252699
 0.71836    4.904791    5.291755    0.925710
 0.001266    0.256127    4.645698
 0.85918    4.904791    5.291755    0.925710
 0.001266    0.132753    7.300936
 1.00000    4.904791    5.291755    0.925710
 0.001266    0.525667   14.590902

COMB DL-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -1.294612  -24.156775   -0.937361
-6.41E-06   -1.046107  -43.088808
 0.57754   -1.294612  -24.156775   -0.937361
-6.41E-06   -0.833628  -34.239581
 0.71836   -1.294612  -24.156775   -0.937361
-6.41E-06   -0.260302  -30.056692
 0.85918   -1.294612  -24.156775   -0.937361
-6.41E-06   -0.129242  -26.712395
 1.00000   -1.294612  -24.156775   -0.937361
-6.41E-06   -0.518296  -26.975472
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3523

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    6.176030   14.657552    1.471427
 0.002179    1.643009   15.743360
 0.57754    6.176030   14.657552    1.471427
 0.002179    1.025978   10.793984
 0.71836    6.176030   14.657552    1.471427
 0.002179    0.408451    7.409790
 0.85918    6.176030   14.657552    1.471427
 0.002179    0.238091    9.539484
 1.00000    6.176030   14.657552    1.471427
 0.002179    0.937763   21.068378

COMB DL-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -4.465447  -45.713052   -1.669137
-0.000113   -1.861340  -83.504586
 0.57754   -4.465447  -45.713052   -1.669137
-0.000113   -1.161900  -69.881137
 0.71836   -4.465447  -45.713052   -1.669137
-0.000113   -0.462438  -57.211669
 0.85918   -4.465447  -45.713052   -1.669137
-0.000113   -0.204704  -48.619815
 1.00000   -4.465447  -45.713052   -1.669137
-0.000113   -0.823120  -47.300444

COMB DL-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    6.222444   49.888345    1.672880
 0.001852    1.868552  108.996183
 0.57754    6.222444   49.888345    1.672880
 0.001852    1.166830   90.146890
 0.71836    6.222444   49.888345    1.672880
 0.001852    0.464518   72.326274
 0.85918    6.222444   49.888345    1.672880
 0.001852    0.288478   58.884979
 1.00000    6.222444   49.888345    1.672880
 0.001852    1.141125   54.751889

COMB DL-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -6.712279  -53.044235   -2.034906
-1.44E-05   -2.271171  -91.360235
 0.57754   -6.712279  -53.044235   -2.034906
-1.44E-05   -1.418400  -74.712184
 0.71836   -6.712279  -53.044235   -2.034906
-1.44E-05   -0.565843  -58.494646
 0.85918   -6.712279  -53.044235   -2.034906
-1.44E-05   -0.231237  -45.497233
 1.00000   -6.712279  -53.044235   -2.034906
-1.44E-05   -0.934340  -39.439876

COMB DL-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   10.225609   55.792364    1.707049
 0.004091    1.899667  121.361069
 0.57754   10.225609   55.792364    1.707049
 0.004091    1.185336  100.884701
 0.71836   10.225609   55.792364    1.707049
 0.004091    0.471420   86.429365
 0.85918   10.225609   55.792364    1.707049
 0.004091    0.307116   87.625276
 1.00000   10.225609   55.792364    1.707049
 0.004091    1.182837  107.381266

COMB DL-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -7.178579 -107.292224   -2.090493
-0.003288   -2.327056 -127.605417
 0.57754   -7.178579 -107.292224   -2.090493
-0.003288   -1.453762  -88.209623
 0.71836   -7.178579 -107.292224   -2.090493
-0.003288   -0.581295  -58.450118
 0.85918   -7.178579 -107.292224   -2.090493
-0.003288   -0.251482  -38.318120
 1.00000   -7.178579 -107.292224   -2.090493
-0.003288   -0.968231  -36.553040
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3524

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    0.952014   17.465151    0.548336
 0.000697    0.613266   28.643264
 0.57754    0.952014   17.465151    0.548336
 0.000697    0.383256   22.179497
 0.71836    0.952014   17.465151    0.548336
 0.000697    0.152944   16.089747
 0.85918    0.952014   17.465151    0.548336
 0.000697    0.112698   11.084070
 1.00000    0.952014   17.465151    0.548336
 0.000697    0.441333   10.453636

COMB DL-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -3.866781  -21.998862   -0.785271
-7.65E-06   -0.875539  -39.637264
 0.57754   -3.866781  -21.998862   -0.785271
-7.65E-06   -0.546424  -32.008712
 0.71836   -3.866781  -21.998862   -0.785271
-7.65E-06   -0.217289  -24.664367
 0.85918   -3.866781  -21.998862   -0.785271
-7.65E-06   -0.074997  -17.822820
 1.00000   -3.866781  -21.998862   -0.785271
-7.65E-06   -0.305496  -14.263219

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    5.049323   52.486280    0.883697
 0.004437    0.978637  128.099953
 0.57754    5.049323   52.486280    0.883697
 0.004437    0.610397  108.717025
 0.71836    5.049323   52.486280    0.883697
 0.004437    0.243274   96.789403
 0.85918    5.049323   52.486280    0.883697
 0.004437    0.203110   99.804975
 1.00000    5.049323   52.486280    0.883697
 0.004437    0.743859  107.428801

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -5.932493  -79.278304   -1.293325
-0.004125   -1.431547  -74.569592
 0.57754   -5.932493  -79.278304   -1.293325
-0.004125   -0.893878  -44.386450
 0.71836   -5.932493  -79.278304   -1.293325
-0.004125   -0.357464  -28.135522
 0.85918   -5.932493  -79.278304   -1.293325
-0.004125   -0.142491  -18.322696
 1.00000   -5.932493  -79.278304   -1.293325
-0.004125   -0.513134  -11.707522

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    7.382591   51.077730    1.477395
 0.004984    1.643433  118.907676
 0.57754    7.382591   51.077730    1.477395
 0.004984    1.025023  100.508799
 0.71836    7.382591   51.077730    1.477395
 0.004984    0.408497   88.803778
 0.85918    7.382591   51.077730    1.477395
 0.004984    0.289038   91.310189
 1.00000    7.382591   51.077730    1.477395
 0.004984    1.090242  105.278104

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -7.004574  -91.135077   -1.913910
-0.003734   -2.125191 -103.511630
 0.57754   -7.004574  -91.135077   -1.913910
-0.003734   -1.326997  -70.729516
 0.71836   -7.004574  -91.135077   -1.913910
-0.003734   -0.529847  -50.511444
 0.85918   -7.004574  -91.135077   -1.913910
-0.003734   -0.223112  -36.867775
 1.00000   -7.004574  -91.135077   -1.913910
-0.003734   -0.843271  -31.360260
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   3525

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    9.403324   64.818053    1.620287
 0.003343    1.803733  130.312917
 0.57754    9.403324   64.818053    1.620287
 0.003343    1.125513  105.624917
```

0.71836 9.403324 64.818053 1.620287
0.003343 0.447633 85.380778
0.85918 9.403324 64.818053 1.620287
0.003343 0.297841 75.512858
1.00000 9.403324 64.818053 1.620287
0.003343 1.156512 90.486451

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -8.467381 -105.794510 -2.049707
-0.003233 -2.284614 -134.230893
0.57754 -8.467381 -105.794510 -2.049707
-0.003233 -1.427959 -94.276733
0.71836 -8.467381 -105.794510 -2.049707
-0.003233 -0.571661 -62.026429
0.85918 -8.467381 -105.794510 -2.049707
-0.003233 -0.237600 -35.008822
1.00000 -8.467381 -105.794510 -2.049707
-0.003233 -0.917760 -33.001126

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 4.847549 44.331102 0.654833
4.29E-06 0.729119 56.954577
0.57754 4.847549 44.331102 0.654833
4.29E-06 0.454632 38.595504
0.71836 4.847549 44.331102 0.654833
4.29E-06 0.180124 20.532959
0.85918 4.847549 44.331102 0.654833
4.29E-06 0.101841 5.220648
1.00000 4.847549 44.331102 0.654833
4.29E-06 0.417231 3.305811

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -5.228328 -36.837071 -0.751972
-0.001534 -0.844010 -72.292788
0.57754 -5.228328 -36.837071 -0.751972
-0.001534 -0.526993 -57.023301
0.71836 -5.228328 -36.837071 -0.751972
-0.001534 -0.214015 -41.955055
0.85918 -5.228328 -36.837071 -0.751972
-0.001534 -0.093848 -29.385044
1.00000 -5.228328 -36.837071 -0.751972
-0.001534 -0.368686 -27.084723

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 11.115454 66.848388 0.973757
0.005521 1.071716 122.664408
0.57754 11.115454 66.848388 0.973757
0.005521 0.666816 96.628177
0.71836 11.115454 66.848388 0.973757
0.005521 0.263911 81.111000
0.85918 11.115454 66.848388 0.973757
0.005521 0.190821 88.138017
1.00000 11.115454 66.848388 0.973757
0.005521 0.691630 110.374685

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -6.761277 -120.153260 -1.197146
-0.007556 -1.324460 -122.747533
0.57754 -6.761277 -120.153260 -1.197146
-0.007556 -0.829259 -74.162577
0.71836 -6.761277 -120.153260 -1.197146
-0.007556 -0.334979 -45.165706
0.85918 -6.761277 -120.153260 -1.197146
-0.007556 -0.169150 -27.158132
1.00000 -6.761277 -120.153260 -1.197146
-0.007556 -0.576484 -24.328122
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3526
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 9.690849 84.051191 1.278428
0.004213 1.416656 161.766658
0.57754 9.690849 84.051191 1.278428
0.004213 0.882891 126.906511
0.71836 9.690849 84.051191 1.278428
0.004213 0.350379 103.643903
0.85918 9.690849 84.051191 1.278428
0.004213 0.253129 95.206148
1.00000 9.690849 84.051191 1.278428
0.004213 0.958520 102.132381

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -9.190667 -113.148598 -1.685210
-0.005736 -1.874894 -130.790663
0.57754 -9.190667 -113.148598 -1.685210
-0.005736 -1.127719 -84.351111
0.71836 -9.190667 -113.148598 -1.685210
-0.005736 -0.471942 -54.571606
0.85918 -9.190667 -113.148598 -1.685210
-0.005736 -0.201188 -31.732666
1.00000 -9.190667 -113.148598 -1.685210
-0.005736 -0.737110 -23.491514

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 9.735423 74.853007 1.585133
0.004251 1.761431 138.636248
0.57754 9.735423 74.853007 1.585133
0.004251 1.098657 109.845052
0.71836 9.735423 74.853007 1.585133
0.004251 0.436756 87.480958
0.85918 9.735423 74.853007 1.585133
0.004251 0.301190 79.760005
1.00000 9.735423 74.853007 1.585133
0.004251 1.154466 89.954955

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -9.803537 -111.096817 -2.037473
-0.004765 -2.268384 -142.626513
0.57754 -9.803537 -111.096817 -2.037473
-0.004765 -1.417839 -100.024718
0.71836 -9.803537 -111.096817 -2.037473
-0.004765 -0.568453 -69.256239
0.85918 -9.803537 -111.096817 -2.037473
-0.004765 -0.239364 -45.651697
1.00000 -9.803537 -111.096817 -2.037473
-0.004765 -0.904466 -37.884795

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 11.984731 81.397866 0.914135
0.005538 1.016201 162.224860
0.57754 11.984731 81.397866 0.914135
0.005538 0.634187 129.072850
0.71836 11.984731 81.397866 0.914135
0.005538 0.252020 102.416042
0.85918 11.984731 81.397866 0.914135
0.005538 0.178105 100.503839
1.00000 11.984731 81.397866 0.914135
0.005538 0.663819 106.428942

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -8.960844 -127.891695 -1.160092
-0.007082 -1.286170 -140.550941
0.57754 -8.960844 -127.891695 -1.160092
-0.007082 -0.803485 -95.309379
0.71836 -8.960844 -127.891695 -1.160092
-0.007082 -0.320967 -68.654508
0.85918 -8.960844 -127.891695 -1.160092
-0.007082 -0.145211 -46.218025
1.00000 -8.960844 -127.891695 -1.160092
-0.007082 -0.508101 -45.164803
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3527
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 11.115454 84.051191 1.707049
0.005521 1.899667 161.766658
0.57754 11.115454 84.051191 1.707049
0.005521 1.185336 128.906511
0.71836 11.115454 84.051191 1.707049
0.005521 0.471420 103.643903
0.85918 11.115454 84.051191 1.707049
0.005521 0.307116 99.804975
1.00000 11.115454 84.051191 1.707049
0.005521 1.182837 110.374685

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -9.803537 -120.153260 -2.090493
-0.007556 -2.327056 -142.626513
0.57754 -9.803537 -120.153260 -2.090493
-0.007556 -1.453762 -100.024718
0.71836 -9.803537 -120.153260 -2.090493
-0.007556 -0.581295 -69.256239
0.85918 -9.803537 -120.153260 -2.090493
-0.007556 -0.251482 -48.619815
1.00000 -9.803537 -120.153260 -2.090493
-0.007556 -0.968231 -47.300444

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 11.984731 84.051191 1.707049
0.005538 1.899667 162.224860
0.57754 11.984731 84.051191 1.707049
0.005538 1.185336 129.072850
0.71836 11.984731 84.051191 1.707049
0.005538 0.471420 103.643903
0.85918 11.984731 84.051191 1.707049
0.005538 0.307116 100.503839
1.00000 11.984731 84.051191 1.707049
0.005538 1.182837 110.374685

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -9.803537 -127.891695 -2.090493
-0.007556 -2.327056 -142.626513
0.57754 -9.803537 -127.891695 -2.090493
-0.007556 -1.453762 -100.024718
0.71836 -9.803537 -127.891695 -2.090493
-0.007556 -0.581295 -69.256239
0.85918 -9.803537 -127.891695 -2.090493
-0.007556 -0.251482 -48.619815
1.00000 -9.803537 -127.891695 -2.090493
-0.007556 -0.968231 -47.300444

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 11.984731 84.051191 1.707049
0.005538 1.899667 162.224860
0.57754 11.984731 84.051191 1.707049
0.005538 1.185336 129.072850
0.71836 11.984731 84.051191 1.707049
0.005538 0.471420 103.643903
0.85918 11.984731 84.051191 1.707049
0.005538 0.307116 100.503839
1.00000 11.984731 84.051191 1.707049
0.005538 1.182837 110.374685

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -9.803537 -127.891695 -2.090493
-0.007556 -2.327056 -142.626513
0.57754 -9.803537 -127.891695 -2.090493
-0.007556 -1.453762 -100.024718
0.71836 -9.803537 -127.891695 -2.090493
-0.007556 -0.581295 -69.256239
0.85918 -9.803537 -127.891695 -2.090493
-0.007556 -0.251482 -48.619815
1.00000 -9.803537 -127.891695 -2.090493
-0.007556 -0.968231 -47.300444
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3528
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 335 ========== LENGTH = 2.977749

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.834479 2.454714 0.521447
0.000799 0.291322 10.934296
0.14086 2.834479 2.454714 0.521447
0.000799 0.072557 17.748235
0.28171 2.834479 2.454714 0.521447
0.000799 0.123306 24.852736
0.42257 2.834479 2.454714 0.521447
0.000799 0.309155 31.967368
0.56343 2.834479 2.454714 0.521447
0.000799 0.494407 39.136651

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.147320 -17.169394 -0.441689
-0.000124 -0.246642 -24.346675
0.14086 -1.147320 -17.169394 -0.441689
-0.000124 -0.061351 -25.083126
0.28171 -1.147320 -17.169394 -0.441689
-0.000124 -0.146116 -25.845340
0.42257 -1.147320 -17.169394 -0.441689
-0.000124 -0.364848 -26.628141
0.56343 -1.147320 -17.169394 -0.441689
-0.000124 -0.583560 -27.464146

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.721143 12.609156 0.842797
0.001619 0.472208 17.330292
0.14086 3.721143 12.609156 0.842797
0.001619 0.118656 27.963241
0.28171 3.721143 12.609156 0.842797
0.001619 0.220080 39.603861
0.42257 3.721143 12.609156 0.842797
0.001619 0.546196 52.283969
0.56343 3.721143 12.609156 0.842797
0.001619 0.872385 65.494007

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.722624 -32.049430 -0.778225
-0.000180 -0.433458 -45.172016
0.14086 -4.722624 -32.049430 -0.778225
-0.000180 -0.107177 -47.271901
0.28171 -4.722624 -32.049430 -0.778225
-0.000180 -0.235471 -49.792769
0.42257 -4.722624 -32.049430 -0.778225
-0.000180 -0.588983 -53.022778
0.56343 -4.722624 -32.049430 -0.778225
-0.000180 -0.942468 -57.292473

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.978032 53.388328 0.902235
0.001822 0.505418 44.079014
0.14086 3.978032 53.388328 0.902235
0.001822 0.126778 46.305749
0.28171 3.978032 53.388328 0.902235
0.001822 0.294344 55.532256
0.42257 3.978032 53.388328 0.902235
0.001822 0.729254 66.371377
0.56343 3.978032 53.388328 0.902235
0.001822 1.164209 77.771097

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.455445 -39.779190 -1.037013
-5.99E-06 -0.575822 -37.226447
0.14086 -7.455445 -39.779190 -1.037013
-5.99E-06 -0.140985 -36.405586
0.28171 -7.455445 -39.779190 -1.037013
-5.99E-06 -0.251201 -52.020253
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3529
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42257 -7.455445 -39.779190 -1.037013
-5.99E-06 -0.629779 -72.564511
0.56343 -7.455445 -39.779190 -1.037013
-5.99E-06 -1.008277 -94.173684

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.974748 89.874876 0.911630
0.004726 0.524525 104.410536
0.14086 6.974748 89.874876 0.911630
0.004726 0.142510 104.532150
0.28171 6.974748 89.874876 0.911630
0.004726 0.321251 110.494898
0.42257 6.974748 89.874876 0.911630
0.004726 0.797234 127.870917
0.56343 6.974748 89.874876 0.911630
0.004726 1.273274 152.455221

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.893123 -70.662883 -1.145231
-0.003726 -0.651585 -34.488366
0.14086 -8.893123 -70.662883 -1.145231
-0.003726 -0.171966 -37.324677
0.28171 -8.893123 -70.662883 -1.145231
-0.003726 -0.254010 -54.114774
0.42257 -8.893123 -70.662883 -1.145231
-0.003726 -0.635771 -74.670111
0.56343 -8.893123 -70.662883 -1.145231
-0.003726 -1.017460 -106.905043

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.780814 20.112194 0.305940
0.000727 0.171700 9.626429
0.14086 0.780814 20.112194 0.305940
0.000727 0.043347 11.785197
0.28171 0.780814 20.112194 0.305940
0.000727 0.114402 15.288029
0.42257 0.780814 20.112194 0.305940
0.000727 0.185127 20.063063
0.56343 0.780814 20.112194 0.305940
0.000727 0.447935 27.428819

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.463066 -17.006672 -0.397714
-9.23E-06 -0.219362 -14.862038
0.14086 -4.463066 -17.006672 -0.397714
-9.23E-06 -0.052756 -18.617835
0.28171 -4.463066 -17.006672 -0.397714
-9.23E-06 -0.084805 -24.719213
0.42257 -4.463066 -17.006672 -0.397714
-9.23E-06 -0.213274 -32.067820
0.56343 -4.463066 -17.006672 -0.397714
-9.23E-06 -0.341617 -39.863487

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.214265 107.746976 0.424427
0.005461 0.257809 106.720121
0.14086 2.214265 107.746976 0.424427
0.005461 0.080331 79.715219
0.28171 2.214265 107.746976 0.424427
0.005461 0.216178 60.086917
0.42257 2.214265 107.746976 0.424427
0.005461 0.532917 56.154548
0.56343 2.214265 107.746976 0.424427
0.005461 0.849732 62.075754

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.136334 -30.160567 -0.769409
-0.004649 -0.445725 -12.810093
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3530
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14086 -9.136334 -30.160567 -0.769409
-0.004649 -0.123928 -11.497415
0.28171 -9.136334 -30.160567 -0.769409
-0.004649 -0.117133 -28.643268
0.42257 -9.136334 -30.160567 -0.769409
-0.004649 -0.294297 -50.622783
0.56343 -9.136334 -30.160567 -0.769409
-0.004649 -0.471383 -88.475026

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.630738 99.158269 0.778587
0.005567 0.453920 102.632895
0.14086 3.630738 99.158269 0.778587
0.005567 0.127807 84.188979
0.28171 3.630738 99.158269 0.778587
0.005567 0.287890 72.286795
0.42257 3.630738 99.158269 0.778587
0.005567 0.712182 74.527244
0.56343 3.630738 99.158269 0.778587
0.005567 1.136849 85.667790

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.936153 -41.097819 -1.025191
-0.004201 -0.587292 -31.333679
0.14086 -9.936153 -41.097819 -1.025191
-0.004201 -0.158069 -30.758290
0.28171 -9.936153 -41.097819 -1.025191
-0.004201 -0.216290 -47.287809
0.42257 -9.936153 -41.097819 -1.025191
-0.004201 -0.542108 -67.837289
0.56343 -9.936153 -41.097819 -1.025191
-0.004201 -0.867802 -102.745483

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.390722 91.000002 0.885908
0.003942 0.507690 88.446828
0.14086 7.390722 91.000002 0.885908
0.003942 0.136378 94.740683
0.28171 7.390722 91.000002 0.885908
0.003942 0.316573 106.664517
0.42257 7.390722 91.000002 0.885908
0.003942 0.785638 128.169214
0.56343 7.390722 91.000002 0.885908
0.003942 1.255021 155.612703

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.473388 -77.461261 -1.127559
-0.003438 -0.639540 -31.967835
0.14086 -9.473388 -77.461261 -1.127559
-0.003438 -0.167273 -37.702652
0.28171 -9.473388 -77.461261 -1.127559
-0.003438 -0.246627 -57.802111
0.42257 -9.473388 -77.461261 -1.127559
-0.003438 -0.617741 -81.677888
0.56343 -9.473388 -77.461261 -1.127559
-0.003438 -0.988779 -115.224874

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.530192 31.769976 0.419368
2.00E-05 0.234508 2.767510
0.14086 5.530192 31.769976 0.419368
2.00E-05 0.058556 6.209055
0.28171 5.530192 31.769976 0.419368
2.00E-05 0.117778 23.144203
0.42257 5.530192 31.769976 0.419368
2.00E-05 0.295656 40.405913
0.56343 5.530192 31.769976 0.419368
2.00E-05 0.473604 57.778394
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3531
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.224874 -41.680981 -0.424395
-0.001363 -0.238646 -13.520777
0.14086 -3.224874 -41.680981 -0.424395
-0.001363 -0.060708 -24.045773
0.28171 -3.224874 -41.680981 -0.424395
-0.001363 -0.117309 -36.513399
0.42257 -3.224874 -41.680981 -0.424395
-0.001363 -0.293213 -49.561615
0.56343 -3.224874 -41.680981 -0.424395
-0.001363 -0.469110 -62.767784

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.249241 113.400351 0.552512
0.005513 0.332440 103.810549
0.14086 8.249241 113.400351 0.552512
0.005513 0.101342 89.583084
0.28171 8.249241 113.400351 0.552512
0.005513 0.207790 85.028711
0.42257 8.249241 113.400351 0.552512
0.005513 0.518957 98.810260
0.56343 8.249241 113.400351 0.552512
0.005513 0.830280 124.130441

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.441875 -65.931528 -0.759402
-0.007140 -0.449534 -13.993918
0.14086 -7.441875 -65.931528 -0.759402
-0.007140 -0.131999 -27.002355
0.28171 -7.441875 -65.931528 -0.759402
-0.007140 -0.154361 -42.869042
0.42257 -7.441875 -65.931528 -0.759402
-0.007140 -0.384941 -63.087642
0.56343 -7.441875 -65.931528 -0.759402
-0.007140 -0.615485 -102.199270

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.745648 120.726940 0.695840
0.004420 0.406074 91.547556
0.14086 7.745648 120.726940 0.695840
0.004420 0.114629 84.092783
0.28171 7.745648 120.726940 0.695840
0.004420 0.284428 87.047282
0.42257 7.745648 120.726940 0.695840
0.004420 0.706890 103.260996
0.56343 7.745648 120.726940 0.695840
0.004420 1.129503 127.757256

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.944456 -72.836145 -1.019332
-0.005196 -0.584853 -15.329148
0.14086 -9.944456 -72.836145 -1.019332
-0.005196 -0.158109 -25.395539
0.28171 -9.944456 -72.836145 -1.019332
-0.005196 -0.193437 -53.292018
0.42257 -9.944456 -72.836145 -1.019332
-0.005196 -0.484606 -84.853273
0.56343 -9.944456 -72.836145 -1.019332
-0.005196 -0.775633 -129.534711

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.475438 104.111423 0.888135
0.004215 0.510923 80.061911
0.14086 7.475438 104.111423 0.888135
0.004215 0.138726 78.644329
0.28171 7.475438 104.111423 0.888135
0.004215 0.317272 86.192799
0.42257 7.475438 104.111423 0.888135
0.004215 0.786171 104.821105
0.56343 7.475438 104.111423 0.888135
0.004215 1.255218 130.330244
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.532863	-72.805011	-1.128003
-0.004306	-0.640936	-31.218238	
0.14086	-10.532863	-72.805011	-1.128003
-0.004306	-0.169496	-40.333470	
0.28171	-10.532863	-72.805011	-1.128003
-0.004306	-0.247113	-63.857112	
0.42257	-10.532863	-72.805011	-1.128003
-0.004306	-0.619070	-91.104174	
0.56343	-10.532863	-72.805011	-1.128003
-0.004306	-0.990943	-129.456826	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.862201	5.275964	0.923993
0.000838	0.515955	14.602729	
0.14086	4.862201	5.275964	0.923993
0.000838	0.127616	23.323059	
0.28171	4.862201	5.275964	0.923993
0.000838	0.259480	32.349632	
0.42257	4.862201	5.275964	0.923993
0.000838	0.645483	41.763060	
0.56343	4.862201	5.275964	0.923993
0.000838	1.031497	51.382378	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.282029	-23.912834	-0.920431
-0.000128	-0.512760	-26.982090	
0.14086	-1.282029	-23.912834	-0.920431
-0.000128	-0.126629	-27.876877	
0.28171	-1.282029	-23.912834	-0.920431
-0.000128	-0.257539	-28.990879	
0.42257	-1.282029	-23.912834	-0.920431
-0.000128	-0.645768	-30.516760	
0.56343	-1.282029	-23.912834	-0.920431
-0.000128	-1.033489	-32.307396	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.042983	15.406026	1.489018
0.001638	0.834170	21.092866	
0.14086	6.042983	15.406026	1.489018
0.001638	0.202940	35.948333	
0.28171	6.042983	15.406026	1.489018
0.001638	0.457597	52.137668	
0.42257	6.042983	15.406026	1.489018
0.001638	1.133649	69.498169	
0.56343	6.042983	15.406026	1.489018
0.001638	1.809766	87.383704	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.496887	-44.257585	-1.612489
-0.000108	-0.950536	-47.311728	
0.14086	-4.496887	-44.257585	-1.612489
-0.000108	-0.219629	-48.825162	
0.28171	-4.496887	-44.257585	-1.612489
-0.000108	-0.413046	-51.718744	
0.42257	-4.496887	-44.257585	-1.612489
-0.000108	-1.038252	-56.278715	
0.56343	-4.496887	-44.257585	-1.612489
-0.000108	-1.663000	-61.951396	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.166899	49.139037	1.698337
0.001804	0.950958	54.770746	
0.14086	6.166899	49.139037	1.698337
0.001804	0.237241	61.256377	
0.28171	6.166899	49.139037	1.698337
0.001804	0.560559	75.554120	
0.42257	6.166899	49.139037	1.698337
0.001804	1.387190	93.513985	
0.56343	6.166899	49.139037	1.698337
0.001804	2.214038	112.511681	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.660899	-52.739414	-1.971898
-8.32E-06	-1.094638	-39.443551	
0.14086	-6.660899	-52.739414	-1.971898
-8.32E-06	-0.260001	-27.760308	
0.28171	-6.660899	-52.739414	-1.971898
-8.32E-06	-0.470347	-51.752910	
0.42257	-6.660899	-52.739414	-1.971898
-8.32E-06	-1.183646	-70.167817	
0.56343	-6.660899	-52.739414	-1.971898
-8.32E-06	-1.896411	-89.580210	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.459495	81.659726	1.714989
0.004106	0.971677	107.418477	
0.14086	8.459495	81.659726	1.714989
0.004106	0.251230	113.411887	
0.28171	8.459495	81.659726	1.714989
0.004106	0.579990	126.190323	
0.42257	8.459495	81.659726	1.714989
0.004106	1.437628	149.518279	
0.56343	8.459495	81.659726	1.714989
0.004106	2.295552	179.157738	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.583877	-79.384924	-2.054097
-0.002931	-1.154636	-36.544870	
0.14086	-8.583877	-79.384924	-2.054097
-0.002931	-0.293945	-40.596465	
0.28171	-8.583877	-79.384924	-2.054097
-0.002931	-0.475654	-55.611803	
0.42257	-8.583877	-79.384924	-2.054097
-0.002931	-1.193608	-76.128580	
0.56343	-8.583877	-79.384924	-2.054097
-0.002931	-1.911553	-108.358551	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.930040	17.159338	0.569671
0.000734	0.320481	10.462635	
0.14086	0.930040	17.159338	0.569671
0.000734	0.080888	15.291573	
0.28171	0.930040	17.159338	0.569671
0.000734	0.212992	22.197598	
0.42257	0.930040	17.159338	0.569671
0.000734	0.524598	30.318504	
0.56343	0.930040	17.159338	0.569671
0.000734	0.836187	39.148054	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.849416	-21.882879	-0.743030
-5.43E-06	-0.410600	-14.266855	
0.14086	-3.849416	-21.882879	-0.743030
-5.43E-06	-0.099437	-16.823964	
0.28171	-3.849416	-21.882879	-0.743030
-5.43E-06	-0.156156	-21.782096	
0.42257	-3.849416	-21.882879	-0.743030
-5.43E-06	-0.395539	-27.858757	
0.56343	-3.849416	-21.882879	-0.743030
-5.43E-06	-0.634649	-34.490738	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.363330	92.013280	0.901857
0.004963	0.525314	107.479767	
0.14086	2.363330	92.013280	0.901857
0.004963	0.146904	86.461023	
0.28171	2.363330	92.013280	0.901857
0.004963	0.353830	74.174836	
0.42257	2.363330	92.013280	0.901857
0.004963	0.872013	76.027613	
0.56343	2.363330	92.013280	0.901857
0.004963	1.391073	86.872972	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.078401	-36.384879	-1.250117
-0.003943	-0.712060	-11.700676	
0.14086	-8.078401	-36.384879	-1.250117
-0.003943	-0.188985	-10.608483	
0.28171	-8.078401	-36.384879	-1.250117
-0.003943	-0.246912	-24.544782	
0.42257	-8.078401	-36.384879	-1.250117
-0.003943	-0.622369	-43.809929	
0.56343	-8.078401	-36.384879	-1.250117
-0.003943	-0.998286	-80.275429	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.921861	86.805968	1.501651
0.005162	0.859104	105.334688	
0.14086	4.921861	86.805968	1.501651
0.005162	0.228648	93.639936	
0.28171	4.921861	86.805968	1.501651
0.005162	0.524126	90.310793	
0.42257	4.921861	86.805968	1.501651
0.005162	1.294875	99.821112	
0.56343	4.921861	86.805968	1.501651
0.005162	2.066580	117.537786	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.931920	-52.190177	-1.851335
-0.003569	-1.044802	-31.360590	
0.14086	-8.931920	-52.190177	-1.851335
-0.003569	-0.269338	-31.088305	
0.28171	-8.931920	-52.190177	-1.851335
-0.003569	-0.413899	-45.135920	
0.42257	-8.931920	-52.190177	-1.851335
-0.003569	-1.041377	-63.842061	
0.56343	-8.931920	-52.190177	-1.851335
-0.003569	-1.669218	-98.151275	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.956813	86.260884	1.629225
0.003482	0.921952	90.510398	
0.14086	7.956813	86.260884	1.629225
0.003482	0.237878	100.667027	
0.28171	7.956813	86.260884	1.629225
0.003482	0.571489	118.274361	
0.42257	7.956813	86.260884	1.629225
0.003482	1.416919	144.549137	
0.56343	7.956813	86.260884	1.629225
0.003482	2.262734	175.995373	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.641741	-82.833652	-2.023613
-0.002884	-1.136175	-32.986371	
0.14086	-9.641741	-82.833652	-2.023613
-0.002884	-0.288038	-41.311171	
0.28171	-9.641741	-82.833652	-2.023613
-0.002884	-0.451739	-62.000922	
0.42257	-9.641741	-82.833652	-2.023613
-0.002884	-1.134062	-87.037619	
0.56343	-9.641741	-82.833652	-2.023613
-0.002884	-1.816367	-121.641114	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.891065	44.457094	0.637506
1.54E-05	0.354967	3.299621	
0.14086	4.891065	44.457094	0.637506
1.54E-05	0.087425	7.965406	
0.28171	4.891065	44.457094	0.637506
1.54E-05	0.222216	22.500403	
0.42257	4.891065	44.457094	0.637506
1.54E-05	0.557252	37.741796	
0.56343	4.891065	44.457094	0.637506
1.54E-05	0.892435	53.153113	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.263114	-37.216866	-0.798871
-0.001427	-0.448058	-27.079544	
0.14086	-5.263114	-37.216866	-0.798871
-0.001427	-0.113225	-39.194368	
0.28171	-5.263114	-37.216866	-0.798871
-0.001427	-0.179588	-56.558262	
0.42257	-5.263114	-37.216866	-0.798871
-0.001427	-0.447007	-74.822333	
0.56343	-5.263114	-37.216866	-0.798871
-0.001427	-0.714392	-93.288712	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.378598	123.919519	0.941613
0.005757	0.551393	110.430887	
0.14086	7.378598	123.919519	0.941613
0.005757	0.157403	95.824050	
0.28171	7.378598	123.919519	0.941613
0.005757	0.344746	89.352025	
0.42257	7.378598	123.919519	0.941613
0.005757	0.861149	98.568606	
0.56343	7.378598	123.919519	0.941613
0.005757	1.378683	120.908294	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.891106	-59.936763	-1.250182
-0.007125	-0.727103	-24.300139	
0.14086	-9.891106	-59.936763	-1.250182
-0.007125	0.203992	-41.475226	
0.28171	-9.891106	-59.936763	-1.250182
-0.007125	-0.262647	-62.145777	
0.42257	-9.891106	-59.936763	-1.250182
-0.007125	-0.653016	-88.004068	
0.56343	-9.891106	-59.936763	-1.250182
-0.007125	-1.044429	-137.611431	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.999900	124.909182	1.269631
0.004704	0.729803	102.119349	
0.14086	6.999900	124.909182	1.269631
0.004704	0.196516	93.278752	
0.28171	6.999900	124.909182	1.269631
0.004704	0.478324	95.922306	
0.42257	6.999900	124.909182	1.269631
0.004704	1.188443	112.166625	
0.56343	6.999900	124.909182	1.269631
0.004704	1.899554	137.443812	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.430928	-69.828533	-1.707656
-0.005397	-0.972125	-23.466569	
0.14086	-11.430928	-69.828533	-1.707656
-0.005397	-0.256936	-37.585026	
0.28171	-11.430928	-69.828533	-1.707656
-0.005397	-0.352047	-67.261534	
0.42257	-11.430928	-69.828533	-1.707656
-0.005397	-0.981714	-100.252334	
0.56343	-11.430928	-69.828533	-1.707656
-0.005397	-1.411936	-150.596568	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.484050	108.613420	1.590090
0.004495	0.905808	89.997931	
0.14086	7.484050	108.613420	1.590090
0.004495	0.238585	88.874830	
0.28171	7.484050	108.613420	1.590090
0.004495	0.570660	97.814034	
0.42257	7.484050	108.613420	1.590090
0.004495	1.414902	118.243593	
0.56343	7.484050	108.613420	1.590090
0.004495	2.260135	146.247716	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.649941	-75.061592	-2.025086
-0.004483	-1.142222	-37.866675	
0.14086	-11.649941	-75.061592	-2.025086
-0.004483	-0.295122	-50.089600	
0.28171	-11.649941	-75.061592	-2.025086
-0.004483	-0.440434	-75.790474	
0.42257	-11.649941	-75.061592	-2.025086
-0.004483	-1.105202	-104.914038	
0.56343	-11.649941	-75.061592	-2.025086
-0.004483	-1.770344	-148.622189	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.249241	120.726940	0.911630
0.005567	0.524525	106.720121	
0.14086	8.249241	120.726940	0.911630
0.005567	0.142510	104.632150	
0.28171	8.249241	120.726940	0.911630
0.005567	0.321251	110.494898	
0.42257	8.249241	120.726940	0.911630
0.005567	0.500234	128.911214	
0.56343	8.249241	120.726940	0.911630
0.005567	1.273274	155.612703	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.532863	-77.461261	-1.145231
-0.007140	-0.651585	-45.172016	
0.14086	-10.532863	-77.461261	-1.145231
-0.007140	-0.171966	-47.271901	
0.28171	-10.532863	-77.461261	-1.145231
-0.007140	-0.256410	-63.857112	
0.42257	-10.532863	-77.461261	-1.145231
-0.007140	-0.635771	-91.104174	
0.56343	-10.532863	-77.461261	-1.145231
-0.007140	-1.017460	-129.534711	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.459495	124.909182	1.714989
0.005757	0.971677	110.430887	
0.14086	8.459495	124.909182	1.714989
0.005757	0.251230	113.411887	
0.28171	8.459495	124.909182	1.714989
0.005757	0.579990	126.190323	
0.42257	8.459495	124.909182	1.714989
0.005757	1.437628	149.518279	
0.56343	8.459495	124.909182	1.714989
0.005757	2.295552	179.157738	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.649941	-82.833652	-2.054097
-0.007125	-1.154636	-47.311728	
0.14086	-11.649941	-82.833652	-2.054097
-0.007125	-0.295122	-50.089600	
0.28171	-11.649941	-82.833652	-2.054097
-0.007125	-0.475654	-75.790474	
0.42257	-11.649941	-82.833652	-2.054097
-0.007125	-1.193608	-104.914038	
0.56343	-11.649941	-82.833652	-2.054097
-0.007125	-1.911553	-150.596568	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.459495	124.909182	1.714989
0.005757	0.971677	110.430887	
0.14086	8.459495	124.909182	1.714989
0.005757	0.251230	113.411887	
0.28171	8.459495	124.909182	1.714989
0.005757	0.579990	126.190323	
0.42257	8.459495	124.909182	1.714989
0.005757	1.437628	149.518279	
0.56343	8.459495	124.909182	1.714989
0.005757	2.295552	179.157738	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.649941	-82.833652	-2.054097
-0.007140	-1.154636	-47.311728	
0.14086	-11.649941	-82.833652	-2.054097
-0.007140	-0.295122	-50.089600	
0.28171	-11.649941	-82.833652	-2.054097
-0.007140	-0.475654	-75.790474	
0.42257	-11.649941	-82.833652	-2.054097
-0.007140	-1.193608	-104.914038	
0.56343	-11.649941	-82.833652	-2.054097
-0.007140	-1.911553	-150.596568	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.459495	124.909182	1.714989
0.005757	0.971677	110.430887	
0.14086	8.459495	124.909182	1.714989
0.005757	0.251230	113.411887	
0.28171	8.459495	124.909182	1.714989
0.005757	0.579990	126.190323	
0.42257	8.459495	124.909182	1.714989
0.005757	1.437628	149.518279	
0.56343	8.459495	124.909182	1.714989
0.005757	2.295552	179.157738	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.649941	-82.833652	-2.054097
-0.007140	-1.154636	-47.311728	
0.14086	-11.649941	-82.833652	-2.054097
-0.007140	-0.295122	-50.089600	
0.28171	-11.649941	-82.833652	-2.054097
-0.007140	-0.475654	-75.790474	
0.42257	-11.649941	-82.833652	-2.054097
-0.007140	-1.193608	-104.914038	
0.56343	-11.649941	-82.833652	-2.054097
-0.007140	-1.911553	-150.596568	

ELEM 336 ========== LENGTH = 2.977217

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.773707	10.222743	0.451297
0.001111	0.502225	2.589777	
0.57749	1.773707	10.222743	0.451297
0.001111	0.312994	2.163078	
0.71832	1.773707	10.222743	0.451297
0.001111	0.123746	3.117400	
0.85916	1.773707	10.222743	0.451297
0.001111	0.061318	6.145017	
1.00000	1.773707	10.222743	0.451297
0.001111	0.237885	10.492789	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-2.728682	-12.284900	-0.421042
-1.07E-05	-0.468294	-24.193589	
0.57749	-2.728682	-12.284900	-0.421042
-1.07E-05	-0.291755	-27.676389	
0.71832	-2.728682	-12.284900	-0.421042
-1.07E-05	-0.115215	-31.278315	
0.85916	-2.728682	-12.284900	-0.421042
-1.07E-05	-0.061387	-34.982833	
1.00000	-2.728682	-12.284900	-0.421042
-1.07E-05	-0.254712	-38.858569	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	2.195951	29.784301	0.729340
0.002062	0.811698	24.178510	
0.57749	2.195951	29.784301	0.729340
0.002062	0.505880	17.279339	
0.71832	2.195951	29.784301	0.729340
0.002062	0.200001	11.905954	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85916	2.195951	29.784301	0.729340
0.002062	0.108742	11.905954	
1.00000	2.195951	29.784301	0.729340
0.002062	0.421365	17.400260	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-7.148958	-22.038732	-0.745773
-0.000221	-0.829457	-37.927960	
0.57749	-7.148958	-22.038732	-0.745773
-0.000221	-0.516898	-39.720940	
0.71832	-7.148958	-22.038732	-0.745773
-0.000221	-0.204679	-44.842344	
0.85916	-7.148958	-22.038732	-0.745773
-0.000221	-0.106248	-51.921005	
1.00000	-7.148958	-22.038732	-0.745773
-0.000221	-0.411933	-59.956642	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.957181	80.827748	0.765327
0.001631	0.851963	156.017059	
0.57749	1.957181	80.827748	0.765327
0.001631	0.531068	127.303149	
0.71832	1.957181	80.827748	0.765327
0.001631	0.210123	99.392099	
0.85916	1.957181	80.827748	0.765327
0.001631	0.143227	75.117327	
1.00000	1.957181	80.827748	0.765327
0.001631	0.560526	55.822614	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-10.511119	-21.358026	-0.995124
-6.57E-06	-1.108635	-40.709180	
0.57749	-10.511119	-21.358026	-0.995124
-6.57E-06	-0.691380	-41.641811	
0.71832	-10.511119	-21.358026	-0.995124
-6.57E-06	-0.274159	-44.441559	
0.85916	-10.511119	-21.358026	-0.995124
-6.57E-06	-0.110598	-48.486819	
1.00000	-10.511119	-21.358026	-0.995124
-6.57E-06	-0.431685	-52.679014	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	8.241447	75.296018	0.806796
0.004778	0.898024	150.055121	
0.57749	8.241447	75.296018	0.806796
0.004778	0.559745	124.626390	
0.71832	8.241447	75.296018	0.806796
0.004778	0.221438	107.331063	
0.85916	8.241447	75.296018	0.806796
0.004778	0.169180	107.141226	
1.00000	8.241447	75.296018	0.806796
0.004778	0.622977	122.075999	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.351384	-98.374694	-1.084421

-0.004123 -1.196010 -94.254789
0.57749 -9.351384 -98.374694 -1.084421
-0.004123 -0.744122 -65.036094
0.71832 -9.351384 -98.374694 -1.084421
-0.004123 -0.298755 -49.290319
0.85916 -9.351384 -98.374694 -1.084421
-0.004123 -0.129623 -41.609474
1.00000 -9.351384 -98.374694 -1.084421
-0.004123 -0.462149 -47.410377

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	0.476196	33.285104	0.262171
0.000706	0.291878	57.064795	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57749	0.476196	33.285104	0.262171
0.000706	0.181953	43.784569	
0.71832	0.476196	33.285104	0.262171
0.000706	0.071992	30.839552	
0.85916	0.476196	33.285104	0.262171
0.000706	0.055140	18.848825	
1.00000	0.476196	33.285104	0.262171
0.000706	0.216825	12.612609	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-5.505718	-7.926312	-0.385578
-9.07E-05	-0.429874	-15.620708	
0.57749	-5.505718	-7.926312	-0.385578
-9.07E-05	-0.268223	-12.555520	
0.71832	-5.505718	-7.926312	-0.385578
-9.07E-05	-0.106637	-11.685829	
0.85916	-5.505718	-7.926312	-0.385578
-9.07E-05	-0.037879	-12.445456	
1.00000	-5.505718	-7.926312	-0.385578
-9.07E-05	-0.147836	-13.559748	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	4.525449	80.466127	0.356801
0.005185	0.397313	187.661123	
0.57749	4.525449	80.466127	0.356801
0.005185	0.247929	156.056510	
0.71832	4.525449	80.466127	0.356801
0.005185	0.098073	134.193367	
0.85916	4.525449	80.466127	0.356801
0.005185	0.126507	127.984568	
1.00000	4.525449	80.466127	0.356801
0.005185	0.438578	125.744440	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-8.268753	-67.364372	-0.746626
-0.004879	-0.213920	-40.717220	
0.57749	-8.268753	-67.364372	-0.746626
-0.004879	-0.504567	-17.788241	
0.71832	-8.268753	-67.364372	-0.746626
-0.004879	-0.204128	-13.197317	
0.85916	-8.268753	-67.364372	-0.746626
-0.004879	-0.069132	-12.992977	
1.00000	-8.268753	-67.364372	-0.746626
-0.004879	-0.210698	-13.398377	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	4.956324	82.099908	0.664672
0.005518	0.739848	168.783285	
0.57749	4.956324	82.099908	0.664672
0.005518	0.461176	140.682095	
0.71832	4.956324	82.099908	0.664672
0.005518	0.182463	121.329641	
0.85916	4.956324	82.099908	0.664672
0.005518	0.159526	117.697070	
1.00000	4.956324	82.099908	0.664672
0.005518	0.573485	119.543804	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-10.258835	-70.074667	-0.989620
-0.004409	-1.086461	-51.418521	
0.57749	-10.258835	-70.074667	-0.989620
-0.004409	-0.674953	-34.748596	
0.71832	-10.258835	-70.074667	-0.989620
-0.004409	-0.271422	-34.078441	
0.85916	-10.258835	-70.074667	-0.989620
-0.004409	-0.112107	-37.581951	
1.00000	-10.258835	-70.074667	-0.989620
-0.004409	-0.383559	-41.498897	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	9.323012	78.040659	0.803638
0.003847	0.894541	152.217069	
0.57749	9.323012	78.040659	0.803638
0.003847	0.557582	124.904094	
0.71832	9.323012	78.040659	0.803638
0.003847	0.220600	104.045008	
0.85916	9.323012	78.040659	0.803638
0.003847	0.161462	95.066189	
1.00000	9.323012	78.040659	0.803638
0.003847	0.601768	105.581134	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.412741	-104.677001	-1.054870
-0.003810	-1.167721	-115.581654	
0.57749	-9.412741	-104.677001	-1.054870
-0.003810	-0.727716	-81.471678	
0.71832	-9.412741	-104.677001	-1.054870
-0.003810	-0.293118	-58.271880	
0.85916	-9.412741	-104.677001	-1.054870
-0.003810	-0.126716	-37.685241	
1.00000	-9.412741	-104.677001	-1.054870
-0.003810	-0.458996	-40.062058	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	8.084537	18.309857	0.437544
7.36E-06	0.487086	23.520773	
0.57749	8.084537	18.309857	0.437544
7.36E-06	0.303620	16.047899	
0.71832	8.084537	18.309857	0.437544
7.36E-06	0.120139	8.643670	
0.85916	8.084537	18.309857	0.437544
7.36E-06	0.060204	3.349206	
1.00000	8.084537	18.309857	0.437544
7.36E-06	0.235331	3.118449	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-1.504525	-63.459292	-0.417602
-0.001363	-0.465085	-119.325646	
0.57749	-1.504525	-63.459292	-0.417602
-0.001363	-0.289988	-92.741830	
0.71832	-1.504525	-63.459292	-0.417602
-0.001363	-0.114895	-66.185000	
0.85916	-1.504525	-63.459292	-0.417602
-0.001363	-0.063283	-39.644784	
1.00000	-1.504525	-63.459292	-0.417602
-0.001363	-0.246782	-13.234339	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	14.809522	44.244636	0.566606
0.005720	0.630784	99.075125	
0.57749	14.809522	44.244636	0.566606
0.005720	0.393178	82.998767	
0.71832	14.809522	44.244636	0.566606
0.005720	0.155526	78.874636	
0.85916	14.809522	44.244636	0.566606
0.005720	0.128152	94.407325	
1.00000	14.809522	44.244636	0.566606
0.005720	0.430153	115.451324	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-2.922246	-149.939786	-0.723115
-0.007565	-0.782667	-162.873256	
0.57749	-2.922246	-149.939786	-0.723115
-0.007565	-0.484102	-106.317561	
0.71832	-2.922246	-149.939786	-0.723115
-0.007565	-0.196227	-69.746084	
0.85916	-2.922246	-149.939786	-0.723115
-0.007565	-0.103333	-36.987481	
1.00000	-2.922246	-149.939786	-0.723115
-0.007565	-0.331155	-12.962331	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	12.256313	82.804366	0.669179
0.004102	0.744994	181.215688	
0.57749	12.256313	82.804366	0.669179
0.004102	0.464434	148.383551	
0.71832	12.256313	82.804366	0.669179
0.004102	0.183846	123.857806	
0.85916	12.256313	82.804366	0.669179
0.004102	0.155992	113.280639	
1.00000	12.256313	82.804366	0.669179
0.004102	0.563014	108.310610	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-7.439242	-126.571603	-0.972483
-0.005487	-1.068195	-154.086902	
0.57749	-7.439242	-126.571603	-0.972483
-0.005487	-0.663613	-105.378218	
0.71832	-7.439242	-126.571603	-0.972483
-0.005487	-0.266395	-70.480964	
0.85916	-7.439242	-126.571603	-0.972483
-0.005487	-0.111409	-38.226308	
1.00000	-7.439242	-126.571603	-0.972483
-0.005487	-0.385315	-14.638933	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	10.773153	80.518393	0.823797
0.004091	0.917033	156.420805	
0.57749	10.773153	80.518393	0.823797
0.004091	0.571622	127.184931	
0.71832	10.773153	80.518393	0.823797
0.004091	0.226172	105.003490	
0.85916	10.773153	80.518393	0.823797
0.004091	0.188595	95.386363	
1.00000	10.773153	80.518393	0.823797
0.004091	0.621288	93.838366	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.286665	-112.403402	-1.081133
-0.004548	-1.192117	-139.054950	
0.57749	-9.286665	-112.403402	-1.081133
-0.004548	-0.741427	-100.161391	
0.71832	-9.286665	-112.403402	-1.081133
-0.004548	-0.290736	-74.023362	
0.85916	-9.286665	-112.403402	-1.081133
-0.004548	-0.131332	-50.936183	
1.00000	-9.286665	-112.403402	-1.081133
-0.004548	-0.471251	-35.175251	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	2.841587	12.418817	0.803977
0.001159	0.896050	4.198503	
0.57749	2.841587	12.418817	0.803977
0.001159	0.558709	3.442470	
0.71832	2.841587	12.418817	0.803977
0.001159	0.220702	3.885204	
0.85916	2.841587	12.418817	0.803977
0.001159	0.126126	8.791639	
1.00000	2.841587	12.418817	0.803977
0.001159	0.492458	14.649803	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-2.626871	-15.509262	-0.873766
-7.90E-06	-0.973107	-36.135906	
0.57749	-2.626871	-15.509262	-0.873766
-7.90E-06	-0.606767	-35.755845	
0.71832	-2.626871	-15.509262	-0.873766
-7.90E-06	-0.240447	-35.984845	
0.85916	-2.626871	-15.509262	-0.873766
-7.90E-06	-0.113429	-40.235139	
1.00000	-2.626871	-15.509262	-0.873766
-7.90E-06	-0.451485	-44.917452	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	3.255327	32.422524	1.285051
0.001992	1.431674	25.871358	
0.57749	3.255327	32.422524	1.285051
0.001992	0.892456	18.451578	
0.71832	3.255327	32.422524	1.285051
0.001992	0.352904	12.611019	
0.85916	3.255327	32.422524	1.285051
0.001992	0.218591	13.942139	
1.00000	3.255327	32.422524	1.285051
0.001992	0.854419	21.540092	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-7.371455	-26.097757	-1.517325
-0.000142	-1.690725	-53.367439	
0.57749	-7.371455	-26.097757	-1.517325
-0.000142	-1.054707	-51.868209	
0.71832	-7.371455	-26.097757	-1.517325
-0.000142	-0.418829	-51.631341	
0.85916	-7.371455	-26.097757	-1.517325
-0.000142	-0.182102	-57.375839	
1.00000	-7.371455	-26.097757	-1.517325
-0.000142	-0.722429	-66.534575	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	3.074784	76.395206	1.431479
0.001659	1.594945	153.652244	
0.57749	3.074784	76.395206	1.431479
0.001659	0.994164	127.408889	
0.71832	3.074784	76.395206	1.431479
0.001659	0.393140	102.333956	
0.85916	3.074784	76.395206	1.431479
0.001659	0.261605	83.361782	
1.00000	3.074784	76.395206	1.431479
0.001659	1.028906	69.384865	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-10.061947	-26.514548	-1.829167
-1.41E-05	-2.040216	-53.918549	
0.57749	-10.061947	-26.514548	-1.829167
-1.41E-05	-1.273268	-51.279342	
0.71832	-10.061947	-26.514548	-1.829167
-1.41E-05	-0.506707	-49.316562	
0.85916	-10.061947	-26.514548	-1.829167
-1.41E-05	-0.202018	-52.654950	
1.00000	-10.061947	-26.514548	-1.829167
-1.41E-05	-0.803427	-58.325274	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	8.345204	73.627128	1.490035
0.004021	1.658475	153.947556	
0.57749	8.345204	73.627128	1.490035
0.004021	1.033755	129.688414	
0.71832	8.345204	73.627128	1.490035
0.004021	0.408917	112.772530	
0.85916	8.345204	73.627128	1.490035
0.004021	0.286371	113.635664	
1.00000	8.345204	73.627128	1.490035
0.004021	1.091155	128.435808	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.123709	-90.558776	-1.920488
-0.003357	-2.131935	-98.292793	
0.57749	-9.123709	-90.558776	-1.920488
-0.003357	-1.329768	-88.861936	
0.71832	-9.123709	-90.558776	-1.920488
-0.003357	-0.531190	-51.230753	
0.85916	-9.123709	-90.558776	-1.920488
-0.003357	-0.224361	-45.347478	
1.00000	-9.123709	-90.558776	-1.920488
-0.003357	-0.848795	-52.647717	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	0.420030	30.214463	0.475461
0.000607	0.529517	54.197867	
0.57749	0.420030	30.214463	0.475461
0.000607	0.329967	42.225111	
0.71832	0.420030	30.214463	0.475461
0.000607	0.130124	30.573251	
0.85916	0.420030	30.214463	0.475461
0.000607	0.097523	20.554577	
1.00000	0.420030	30.214463	0.475461
0.000607	0.383933	13.258566	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-5.681196	-9.077443	-0.683957
-8.06E-05	-0.763535	-16.870247	
0.57749	-5.681196	-9.077443	-0.683957
-8.06E-05	-0.476756	-14.593987	
0.71832	-5.681196	-9.077443	-0.683957
-8.06E-05	-0.190108	-12.611679	
0.85916	-5.681196	-9.077443	-0.683957
-8.06E-05	-0.067152	-11.626657	
1.00000	-5.681196	-9.077443	-0.683957
-8.06E-05	-0.267128	-12.606680	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	4.167048	72.994379	0.738639
0.004490	0.820591	184.498416	
0.57749	4.167048	72.994379	0.738639
0.004490	0.511355	156.276837	
0.71832	4.167048	72.994379	0.738639
0.004490	0.202265	136.892984	
0.85916	4.167048	72.994379	0.738639
0.004490	0.182858	130.944546	
1.00000	4.167048	72.994379	0.738639
0.004490	0.663663	128.687761	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-7.886822	-60.174479	-1.149346
-0.004268	-1.266403	-40.818871	
0.57749	-7.886822	-60.174479	-1.149346
-0.004268	-0.787178	-18.765742	
0.71832	-7.886822	-60.174479	-1.149346
-0.004268	-0.317288	-13.380046	
0.85916	-7.886822	-60.174479	-1.149346
-0.004268	-0.124332	-11.882845	
1.00000	-7.886822	-60.174479	-1.149346
-0.004268	-0.432324	-12.494143	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	5.049646	77.040627	1.263033
0.004911	1.405068	166.836924	
0.57749	5.049646	77.040627	1.263033
0.004911	0.875913	141.566116	
0.71832	5.049646	77.040627	1.263033
0.004911	0.346188	124.331917	
0.85916	5.049646	77.040627	1.263033
0.004911	0.263131	122.241639	
1.00000	5.049646	77.040627	1.263033
0.004911	0.983424	124.983431	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.880210	-65.966912	-1.720317
-0.003862	-1.903999	-60.339369	
0.57749	-9.880210	-65.966912	-1.720317
-0.003862	-1.187198	-41.193048	
0.71832	-9.880210	-65.966912	-1.720317
-0.003862	-0.474974	-37.098568	
0.85916	-9.880210	-65.966912	-1.720317
-0.003862	-0.196693	-39.110227	
1.00000	-9.880210	-65.966912	-1.720317
-0.003862	-0.725317	-44.001465	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	8.729397	76.128990	1.443287
0.003254	1.606302	153.143058	
0.57749	8.729397	76.128990	1.443287
0.003254	1.001098	127.144060	
0.71832	8.729397	76.128990	1.443287
0.003254	0.395681	106.312636	
0.85916	8.729397	76.128990	1.443287
0.003254	0.278196	98.905026	
1.00000	8.729397	76.128990	1.443287
0.003254	1.069150	111.449458	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.402789	-96.642214	-1.889055
-0.003222	-2.100497	-113.949121	
0.57749	-9.402789	-96.642214	-1.889055
-0.003222	-1.310940	-80.360241	
0.71832	-9.402789	-96.642214	-1.889055
-0.003222	-0.524589	-56.091119	
0.85916	-9.402789	-96.642214	-1.889055
-0.003222	-0.216060	-38.922246	
1.00000	-9.402789	-96.642214	-1.889055
-0.003222	-0.820845	-43.501363	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	7.134877	22.647454	0.661943
4.35E-06	0.736791	27.141481	
0.57749	7.134877	22.647454	0.661943
4.35E-06	0.459228	17.904373	
0.71832	7.134877	22.647454	0.661943
4.35E-06	0.181611	8.767776	
0.85916	7.134877	22.647454	0.661943
4.35E-06	0.108545	3.716236	
1.00000	7.134877	22.647454	0.661943
4.35E-06	0.434791	3.652695	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-2.271555	-58.748308	-0.778141
-0.001390	-0.869868	-112.981832	
0.57749	-2.271555	-58.748308	-0.778141
-0.001390	-0.543439	-88.471742	
0.71832	-2.271555	-58.748308	-0.778141
-0.001390	-0.217171	-64.044603	
0.85916	-2.271555	-58.748308	-0.778141
-0.001390	-0.095388	-43.295259	
1.00000	-2.271555	-58.748308	-0.778141
-0.001390	-0.373248	-25.448391	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	13.708919	47.296984	0.932919
0.005717	1.035514	105.551447	
0.57749	13.708919	47.296984	0.932919
0.005717	0.645331	88.561341	
0.71832	13.708919	47.296984	0.932919
0.005717	0.255051	83.896718	
0.85916	13.708919	47.296984	0.932919
0.005717	0.197409	100.785724	
1.00000	13.708919	47.296984	0.932919
0.005717	0.702392	123.251744	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-3.546571	-141.244352	-1.207543
-0.007615	-1.324632	-155.410019	
0.57749	-3.546571	-141.244352	-1.207543
-0.007615	-0.825102	-98.684804	
0.71832	-3.546571	-141.244352	-1.207543
-0.007615	-0.332362	-65.340323	
0.85916	-3.546571	-141.244352	-1.207543
-0.007615	-0.162690	-40.127187	
1.00000	-3.546571	-141.244352	-1.207543
-0.007615	-0.551341	-21.195834	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	11.442268	78.091396	1.176124
0.004322	1.307222	177.401510	
0.57749	11.442268	78.091396	1.176124
0.004322	0.814595	147.101776	
0.71832	11.442268	78.091396	1.176124
0.004322	0.321748	125.712907	
0.85916	11.442268	78.091396	1.176124
0.004322	0.246635	120.653929	
1.00000	11.442268	78.091396	1.176124
0.004322	0.920264	121.164164	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-7.569717	-121.355547	-1.608779
-0.005748	-1.779666	-146.186324	
0.57749	-7.569717	-121.355547	-1.608779
-0.005748	-1.110380	-97.304013	
0.71832	-7.569717	-121.355547	-1.608779
-0.005748	-0.445839	-65.257822	
0.85916	-7.569717	-121.355547	-1.608779
-0.005748	-0.188285	-39.817473	
1.00000	-7.569717	-121.355547	-1.608779
-0.005748	-0.680103	-20.554959	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43665	10.206310	77.702828	1.438251
0.004253	1.599686	153.339084	
0.57749	10.206310	77.702828	1.438251
0.004253	0.996919	126.161547	
0.71832	10.206310	77.702828	1.438251
0.004253	0.393931	106.536602	
0.85916	10.206310	77.702828	1.438251
0.004253	0.288263	102.380067	
1.00000	10.206310	77.702828	1.438251
0.004253	1.084686	106.042910	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-9.607296	-109.891200	-1.906277
-0.004775	-2.113939	-138.133696	
0.57749	-9.607296	-109.891200	-1.906277
-0.004775	-1.319032	-98.102222	
0.71832	-9.607296	-109.891200	-1.906277
-0.004775	-0.528030	-72.177578	
0.85916	-9.607296	-109.891200	-1.906277

```
 -0.004775   -0.221875   -53.296913
 1.00000   -9.607296  -109.891200    -1.906277
 -0.004775   -0.824229   -41.394928

COMB       DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43665   14.809522   82.804366    0.823797
 0.005720    0.917033  187.661123
0.57749   14.809522   82.804366    0.823797
 0.005720    0.571622  156.056610
0.71832   14.809522   82.804366    0.823797
 0.005720    0.226172  134.193367
0.85916   14.809522   82.804366    0.823797
 0.005720    0.169180  127.984568
1.00000   14.809522   82.804366    0.823797
 0.005720    0.622977  125.744440

COMB       DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43665  -10.511119 -149.939786   -1.084421
 -0.007565   -1.196010 -162.873256
0.57749  -10.511119 -149.939786   -1.084421
 -0.007565   -0.744122 -106.317561
0.71832  -10.511119 -149.939786   -1.084421
 -0.007565   -0.298755   -74.023362
0.85916  -10.511119 -149.939786   -1.084421
 -0.007565   -0.131332   -51.921005
1.00000  -10.511119 -149.939786   -1.084421
 -0.007565   -0.956642  -197.251254
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3546

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43665   13.708919   78.091396    1.490035
 0.005717    1.658475  184.498416
0.57749   13.708919   78.091396    1.490035
 0.005717    1.033755  156.276837
0.71832   13.708919   78.091396    1.490035
 0.005717    0.408917  136.892984
0.85916   13.708919   78.091396    1.490035
 0.005717    0.286371  130.944546
1.00000   13.708919   78.091396    1.490035
 0.005717    1.091155  128.687761

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43665  -10.061947 -141.244352   -1.920488
 -0.007615   -2.131935 -155.410019
0.57749  -10.061947 -141.244352   -1.920488
 -0.007615   -1.329768   -98.684804
0.71832  -10.061947 -141.244352   -1.920488
 -0.007615   -0.531190   -72.177578
0.85916  -10.061947 -141.244352   -1.920488
 -0.007615   -0.224361   -57.375839
1.00000  -10.061947 -141.244352   -1.920488
 -0.007615   -0.848795   -66.534575

COMB       CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43665   14.809522   82.804366    1.490035
 0.005720    1.658475  187.661123
0.57749   14.809522   82.804366    1.490035
 0.005720    1.033755  156.276837
0.71832   14.809522   82.804366    1.490035
 0.005720    0.408917  136.892984
0.85916   14.809522   82.804366    1.490035
 0.005720    0.286371  130.944546
1.00000   14.809522   82.804366    1.490035
 0.005720    1.091155  128.687761

COMB       CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43665  -10.511119 -149.939786   -1.920488
 -0.007615   -2.131935 -162.873256
0.57749  -10.511119 -149.939786   -1.920488
 -0.007615   -1.329768 -106.317561
0.71832  -10.511119 -149.939786   -1.920488
 -0.007615   -0.531190   -74.023362
0.85916  -10.511119 -149.939786   -1.920488
 -0.007615   -0.224361   -57.375839
1.00000  -10.511119 -149.939786   -1.920488
 -0.007615   -0.848795   -66.534575

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43665   14.809522   82.804366    1.490035
 0.005720    1.658475  187.661123
0.57749   14.809522   82.804366    1.490035
 0.005720    1.033755  156.276837
0.71832   14.809522   82.804366    1.490035
 0.005720    0.408917  136.892984
0.85916   14.809522   82.804366    1.490035
 0.005720    0.286371  130.944546
1.00000   14.809522   82.804366    1.490035
 0.005720    1.091155  128.687761

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43665  -10.511119 -149.939786   -1.920488
 -0.007615   -2.131935 -162.873256
0.57749  -10.511119 -149.939786   -1.920488
 -0.007615   -1.329768 -106.317561
0.71832  -10.511119 -149.939786   -1.920488
 -0.007615   -0.531190   -74.023362
0.85916  -10.511119 -149.939786   -1.920488
 -0.007615   -0.224361   -57.375839
1.00000  -10.511119 -149.939786   -1.920488
 -0.007615   -0.848795   -66.534575
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3547

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       337 ================== LENGTH
=      2.977253

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.755331   10.364049    0.453433
 0.000751    0.255070   10.501087
0.14084    1.755331   10.364049    0.453433
 0.000751    0.064848   15.400686
0.28168    1.755331   10.364049    0.453433
 0.000751    0.115768   20.434505
0.42252    1.755331   10.364049    0.453433
 0.000751    0.290700   25.526183
0.56336    1.755331   10.364049    0.453433
 0.000751    0.465638   30.658631

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -2.714956  -12.283918   -0.417215
 -6.92E-06   -0.234140   -38.866821
0.14084   -2.714956  -12.283918   -0.417215
 -6.92E-06   -0.059170   -42.861579
0.28168   -2.714956  -12.283918   -0.417215
 -6.92E-06   -0.125204   -46.916206
0.42252   -2.714956  -12.283918   -0.417215
 -6.92E-06   -0.315339   -50.993136
0.56336   -2.714956  -12.283918   -0.417215
 -6.92E-06   -0.505468   -55.213764

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.065748   31.481983    0.731399
 0.001545    0.411780   17.425278
0.14084    2.065748   31.481983    0.731399
 0.001545    0.105182   23.581175
0.28168    2.065748   31.481983    0.731399
 0.001545    0.203577   30.170959
0.42252    2.065748   31.481983    0.731399
 0.001545    0.508060   37.905615
0.56336    2.065748   31.481983    0.731399
 0.001545    0.812937   46.145005

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -7.210451  -20.201536   -0.727454
 -0.000187   -0.407315   -59.971778
0.14084   -7.210451  -20.201536   -0.727454
 -0.000187   -0.102343   -69.987063
0.28168   -7.210451  -20.201536   -0.727454
 -0.000187   -0.201991   -80.381928
0.42252   -7.210451  -20.201536   -0.727454
 -0.000187   -0.508740   -91.273881
0.56336   -7.210451  -20.201536   -0.727454
 -0.000187   -0.815428  -103.467227

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.936255   80.515795    0.768184
 0.001722    0.432225   55.814165
0.14084    1.936255   80.515795    0.768184
 0.001722    0.109903   46.644527
0.28168    1.936255   80.515795    0.768184
 0.001722    0.271765   48.983714
0.42252    1.936255   80.515795    0.768184
 0.001722    0.676419   54.248062
0.56336    1.936255   80.515795    0.768184
 0.001722    1.081160   60.364746

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -10.437442  -21.484727   -0.965318
 -6.23E-06   -0.538337   -52.685388
0.14084  -10.437442  -21.484727   -0.965318
 -6.23E-06   -0.133749   -57.281637
0.28168  -10.437442  -21.484727   -0.965318
 -6.23E-06   -0.211987   -73.900302
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3548

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42252  -10.437442  -21.484727   -0.965318
 -6.23E-06   -0.534137  -106.158164
0.56336  -10.437442  -21.484727   -0.965318
 -6.23E-06   -0.856237  -139.251079

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    6.115229  110.109910    0.808050
 0.004907    0.463240  122.276665
0.14084    6.115229  110.109910    0.808050
 0.004907    0.128992  115.146526
0.28168    6.115229  110.109910    0.808050
 0.004907    0.299773  117.310754
0.42252    6.115229  110.109910    0.808050
 0.004907    0.742965  131.133490
0.56336    6.115229  110.109910    0.808050
 0.004907    1.192250  153.497978

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -11.061806  -61.469169   -1.078499
 -0.003854   -0.627020   -53.706698
0.14084  -11.061806  -61.469169   -1.078499
 -0.003854   -0.165674   -53.706659
0.28168  -11.061806  -61.469169   -1.078499
 -0.003854   -0.223254   -70.240377
0.42252  -11.061806  -61.469169   -1.078499
 -0.003854   -0.562097   -99.269842
0.56336  -11.061806  -61.469169   -1.078499
 -0.003854   -0.900907  -137.976658

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.472509   33.150948    0.262364
 0.000679    0.147616   12.610238
0.14084    0.472509   33.150948    0.262364
 0.000679    0.037559   10.764393
0.28168    0.472509   33.150948    0.262364
 0.000679    0.104113   11.459570
0.42252    0.472509   33.150948    0.262364
 0.000679    0.256964   12.270628
0.56336    0.472509   33.150948    0.262364
 0.000679    0.409939   14.315208

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.481893   -7.933799   -0.364835
 -9.47E-06   -0.202220   -13.561150
0.14084   -5.481893   -7.933799   -0.364835
 -9.47E-06   -0.049462   -17.846451
0.28168   -5.481893   -7.933799   -0.364835
 -9.47E-06   -0.072376   -29.225727
0.42252   -5.481893   -7.933799   -0.364835
 -9.47E-06   -0.182419   -42.849896
0.56336   -5.481893   -7.933799   -0.364835
 -9.47E-06   -0.292425   -56.524408

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.593263  128.121530    0.357243
 0.005766    0.213118  126.025992
0.14084    1.593263  128.121530    0.357243
 0.005766    0.069719   88.806685
0.28168    1.593263  128.121530    0.357243
 0.005766    0.201184   63.819196
0.42252    1.593263  128.121530    0.357243
 0.005766    0.490890   54.658560
0.56336    1.593263  128.121530    0.357243
 0.005766    0.788966   57.084308

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -10.631734  -16.402195   -0.720422
 -0.004837   -0.419822   -13.391773
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3549

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.14084  -10.631734  -16.402195   -0.720422
 -0.004837   -0.118975   -14.180111
0.28168  -10.631734  -16.402195   -0.720422
 -0.004837   -0.098548   -28.511246
0.42252  -10.631734  -16.402195   -0.720422
 -0.004837   -0.248375   -59.189393
0.56336  -10.631734  -16.402195   -0.720422
 -0.004837   -0.398165  -103.042429

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.305396  125.255775    0.665932
 0.005805    0.385512  119.895677
0.14084    2.305396  125.255775    0.665932
 0.005805    0.111954   90.233501
0.28168    2.305396  125.255775    0.665932
 0.005805    0.267990   71.578299
0.42252    2.305396  125.255775    0.665932
 0.005805    0.660478   67.169548
0.56336    2.305396  125.255775    0.665932
 0.005805    1.060523   73.235221

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -12.379924  -24.076900   -0.962679
 -0.004372   -0.554536   -41.499805
0.14084  -12.379924  -24.076900   -0.962679
 -0.004372   -0.151952   -45.816472
0.28168  -12.379924  -24.076900   -0.962679
 -0.004372   -0.183868   -62.776043
0.42252  -12.379924  -24.076900   -0.962679
 -0.004372   -0.463128   -94.306328
0.56336  -12.379924  -24.076900   -0.962679
 -0.004372   -0.742356  -137.684032

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    7.624864  106.193466    0.803745
 0.004080    0.459074  105.732078
0.14084    7.624864  106.193466    0.803745
 0.004080    0.125674  107.399704
0.28168    7.624864  106.193466    0.803745
 0.004080    0.294774  118.486528
0.42252    7.624864  106.193466    0.803745
 0.004080    0.732310  139.670192
0.56336    7.624864  106.193466    0.803745
 0.004080    1.174858  167.878576

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -10.793827  -74.848948   -1.061086
 -0.003544   -0.605243   -40.054506
0.14084  -10.793827  -74.848948   -1.061086
 -0.003544   -0.461107   -47.248648
0.28168  -10.793827  -74.848948   -1.061086
 -0.003544   -0.222120   -64.957684
0.42252  -10.793827  -74.848948   -1.061086
 -0.003544   -0.559157   -95.339822
0.56336  -10.793827  -74.848948   -1.061086
 -0.003544   -0.896167  -133.664382

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    8.127539   18.234333    0.436229
 2.00E-05    0.245097    3.115093
0.14084    8.127539   18.234333    0.436229
 2.00E-05    0.062127   15.138454
0.28168    8.127539   18.234333    0.436229
 2.00E-05    0.115847   41.490389
0.42252    8.127539   18.234333    0.436229
 2.00E-05    0.291545   68.045361
0.56336    8.127539   18.234333    0.436229
 2.00E-05    0.467250   94.673099
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3550

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -1.509979  -63.646027   -0.419044
 -0.001281   -0.235596   -13.257514
0.14084   -1.509979  -63.646027   -0.419044
 -0.001281   -0.059797   -17.053429
0.28168   -1.509979  -63.646027   -0.419044
 -0.001281   -0.128728   -23.777844
0.42252   -1.509979  -63.646027   -0.419044
 -0.001281   -0.303663   -30.896046
0.56336   -1.509979  -63.646027   -0.419044
 -0.001281   -0.486582   -38.438609

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   11.298356  102.573712    0.564446
 0.005960    0.331612  115.808241
0.14084   11.298356  102.573712    0.564446
 0.005960    0.102839  110.587750
0.28168   11.298356  102.573712    0.564446
 0.005960    0.197461  114.700172
0.42252   11.298356  102.573712    0.564446
 0.005960    0.487924  136.039100
0.56336   11.298356  102.573712    0.564446
 0.005960    0.788777  170.786247

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.864362  -88.113553   -0.729074
 -0.007288   -0.434390   -12.941064
0.14084   -5.864362  -88.113553   -0.729074
 -0.007288   -0.129277   -21.223058
0.28168   -5.864362  -88.113553   -0.729074
 -0.007288   -0.156326   -29.703472
0.42252   -5.864362  -88.113553   -0.729074
 -0.007288   -0.393078   -42.557715
0.56336   -5.864362  -88.113553   -0.729074
 -0.007288   -0.629783   -73.683187

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    9.859981  122.563532    0.668184
 0.004685    0.385722  108.539438
0.14084    9.859981  122.563532    0.668184
 0.004685    0.110880  103.071240
0.28168    9.859981  122.563532    0.668184
 0.004685    0.265814  111.403557
0.42252    9.859981  122.563532    0.668184
 0.004685    0.659035  133.071425
0.56336    9.859981  122.563532    0.668184
 0.004685    1.059234  164.482434

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -9.416878  -84.318778   -0.962399
 -0.005249   -0.555579   -14.617089
0.14084   -9.416878  -84.318778   -0.962399
 -0.005249   -0.152988   -19.828057
0.28168   -9.416878  -84.318778   -0.962399
 -0.005249   -0.184711   -38.102084
0.42252   -9.416878  -84.318778   -0.962399
 -0.005249   -0.464901   -70.636714
0.56336   -9.416878  -84.318778   -0.962399
 -0.005249   -0.745060  -113.834812

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    8.790813  113.347482    0.823231
 0.004394    0.471161   94.033824
0.14084    8.790813  113.347482    0.823231
 0.004394    0.130312   92.436642
0.28168    8.790813  113.347482    0.823231
 0.004394    0.294097  102.458641
0.42252    8.790813  113.347482    0.823231
 0.004394    0.729270  123.606538
0.56336    8.790813  113.347482    0.823231
 0.004394    1.170780  152.822623
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3551

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -10.910562  -77.508334   -1.059542
 -0.004349   -0.606904   -35.163549
0.14084  -10.910562  -77.508334   -1.059542
 -0.004349   -0.163389   -43.504952
0.28168  -10.910562  -77.508334   -1.059542
 -0.004349   -0.227531   -62.312043
0.42252  -10.910562  -77.508334   -1.059542
 -0.004349   -0.572750   -93.538142
0.56336  -10.910562  -77.508334   -1.059542
 -0.004349   -0.917933  -133.976958

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.815878   12.551750    0.818128
 0.000780    0.460247   14.662974
0.14084    2.815878   12.551750    0.818128
 0.000780    0.116310   20.890835
0.28168    2.815878   12.551750    0.818128
 0.000780    0.238660   27.200479
0.42252    2.815878   12.551750    0.818128
 0.000780    0.595327   33.543655
0.56336    2.815878   12.551750    0.818128
 0.000780    0.951886   39.909869

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -2.607385  -15.566176   -0.850519
 -4.03E-06   -0.474693   -44.930271
0.14084   -2.607385  -15.566176   -0.850519
 -4.03E-06   -0.118204   -49.783272
0.28168   -2.607385  -15.566176   -0.850519
 -4.03E-06   -0.224230   -54.681894
0.42252   -2.607385  -15.566176   -0.850519
 -4.03E-06   -0.567909   -59.615341
0.56336   -2.607385  -15.566176   -0.850519
 -4.03E-06   -0.911120   -64.598404

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    3.156814   33.569637    1.299179
 0.001504    0.730422   21.562718
0.14084    3.156814   33.569637    1.299179
 0.001504    0.184418   30.086949
0.28168    3.156814   33.569637    1.299179
 0.001504    0.416816   39.249691
0.42252    3.156814   33.569637    1.299179
 0.001504    1.040050   48.974190
0.56336    3.156814   33.569637    1.299179
 0.001504    1.663372   59.104466

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -7.401946  -25.126997   -1.487130
 -0.000112   -0.831131   -66.556639
0.14084   -7.401946  -25.126997   -1.487130
 -0.000112   -0.208027   -77.238752
0.28168   -7.401946  -25.126997   -1.487130
 -0.000112   -0.356619   -88.676369
0.42252   -7.401946  -25.126997   -1.487130
 -0.000112   -0.905396  -101.207510
0.56336   -7.401946  -25.126997   -1.487130
 -0.000112   -1.447493  -114.582055

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    3.050888   76.220976    1.446598
 0.001656    0.812080   69.388395
0.14084    3.050888   76.220976    1.446598
 0.001656    0.204454   60.944794
0.28168    3.050888   76.220976    1.446598
 0.001656    0.504526   60.302237
0.42252    3.050888   76.220976    1.446598
 0.001656    1.257596   67.503095
0.56336    3.050888   76.220976    1.446598
 0.001656    2.010966   76.349494
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3552

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -10.003457  -26.730650   -1.796637
 -7.97E-06   -1.003721   -58.337191
0.14084  -10.003457  -26.730650   -1.796637
 -7.97E-06   -0.250502   -64.789035
0.28168  -10.003457  -26.730650   -1.796637
 -7.97E-06   -0.397050   -80.107268
0.42252  -10.003457  -26.730650   -1.796637
 -7.97E-06   -1.004623  -109.091902
0.56336  -10.003457  -26.730650   -1.796637
 -7.97E-06   -1.611757  -139.595176

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    6.663828   99.798506    1.501660
 0.004067    0.855063  128.455052
0.14084    6.663828   99.798506    1.501660
 0.004067    0.225211  124.899734
0.28168    6.663828   99.798506    1.501660
 0.004067    0.532079  127.911059
0.42252    6.663828   99.798506    1.501660
 0.004067    1.326570  144.194528
0.56336    6.663828   99.798506    1.501660
 0.004067    2.121897  167.281538

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000  -10.532730  -63.313339   -1.907210
 -0.003010   -1.078999   -52.647846
0.14084  -10.532730  -63.313339   -1.907210
 -0.003010   -0.280009   -60.896621
0.28168  -10.532730  -63.313339   -1.907210
 -0.003010   -0.412777   -76.732633
0.42252  -10.532730  -63.313339   -1.907210
```

```
-0.003010   -1.042771  -103.721938
 0.56336   -10.532730   -63.313339    -1.907210
-0.003010   -1.672345  -141.903098

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    0.417359    30.241350    0.475312
 0.000636   0.266391    13.259887
 0.14084    0.417359    30.241350    0.475312
 0.000636   0.066501    11.592351
 0.28168    0.417359    30.241350    0.475312
 0.000636   0.189717    13.245541
 0.42252    0.417359    30.241350    0.475312
 0.000636   0.473511    15.748366
 0.56336    0.417359    30.241350    0.475312
 0.000636   0.757390    18.593006

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -5.673100   -9.138757   -0.677092
-5.43E-06   -0.378617   -12.610278
 0.14084   -5.673100   -9.138757   -0.677092
-5.43E-06   -0.095046   -17.987382
 0.28168   -5.673100   -9.138757   -0.677092
-5.43E-06   -0.130744   -28.318565
 0.42252   -5.673100   -9.138757   -0.677092
-5.43E-06   -0.330525   -39.936061
 0.56336   -5.673100   -9.138757   -0.677092
-5.43E-06   -0.530016   -52.040954

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    1.591220   112.889445    0.741306
 0.004981   0.433727   128.714267
 0.14084    1.591220   112.889445    0.741306
 0.004981   0.124233    94.436235
 0.28168    1.591220   112.889445    0.741306
 0.004981   0.316939    69.038453
 0.42252    1.591220   112.889445    0.741306
 0.004981   0.785548    62.297108
 0.56336    1.591220   112.889445    0.741306
 0.004981   1.258257    65.324639
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3553

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -10.061065   -18.103522    -1.140057
-0.004124   -0.656075   -12.487505
 0.14084   -10.061065   -18.103522    -1.140057
-0.004124   -1.173300   -13.916938
 0.28168   -10.061065   -18.103522    -1.140057
-0.004124   -0.203561   -26.224502
 0.42252   -10.061065   -18.103522    -1.140057
-0.004124   -0.513909   -52.310468
 0.56336   -10.061065   -18.103522    -1.140057
-0.004124   -0.824213   -94.849428

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    2.704633   113.238293    1.271687
 0.005122   0.730092   125.020072
 0.14084    2.704633   113.238293    1.271687
 0.005122   0.197411    98.814557
 0.28168    2.704633   113.238293    1.271687
 0.005122   0.473295    80.721976
 0.42252    2.704633   113.238293    1.271687
 0.005122   1.176693    79.444148
 0.56336    2.704633   113.238293    1.271687
 0.005122   1.883590    86.939488

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -11.828835   -27.968358    -1.697762
-0.003732   -0.965984   -44.004917
 0.14084   -11.828835   -27.968358    -1.697762
-0.003732   -0.255282   -49.716670
 0.28168   -11.828835   -27.968358    -1.697762
-0.003732   -0.349331   -65.613779
 0.42252   -11.828835   -27.968358    -1.697762
-0.003732   -0.785504   -93.775554
 0.56336   -11.828835   -27.968358    -1.697762
-0.003732   -1.415382  -136.683747

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.354339    97.789004    1.446998
 0.003420   0.821550   111.449980
 0.14084    7.354339    97.789004    1.446998
 0.003420   0.214932   114.573644
 0.28168    7.354339    97.789004    1.446998
 0.003420   0.527597   124.618347
 0.42252    7.354339    97.789004    1.446998
 0.003420   1.316734   146.746267
 0.56336    7.354339    97.789004    1.446998
 0.003420   2.108218   174.551592

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -10.572525   -74.121958    -1.894696
-0.002905   -1.070683   -43.494040
 0.14084   -10.572525   -74.121958    -1.894696
-0.002905   -0.277290   -52.708105
 0.28168   -10.572525   -74.121958    -1.894696
-0.002905   -0.398710   -70.475934
 0.42252   -10.572525   -74.121958    -1.894696
-0.002905   -1.005671   -98.940069
 0.56336   -10.572525   -74.121958    -1.894696
-0.002905   -1.612331  -136.678205

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    7.171234    22.505695    0.657127
 1.51E-05   0.368313    3.647659
 0.14084    7.171234    22.505695    0.657127
 1.51E-05   0.200520    14.732275
 0.28168    7.171234    22.505695    0.657127
 1.51E-05   0.222880    38.264152
 0.42252    7.171234    22.505695    0.657127
 1.51E-05   0.561643    62.311598
 0.56336    7.171234    22.505695    0.657127
 1.51E-05   0.900655    86.590597
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3554

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -2.282409   -58.784867    -0.808033
-0.001252   -0.454104   -25.457803
 0.14084   -2.282409   -58.784867    -0.808033
-0.001252   -0.115632   -25.202194
 0.28168   -2.282409   -58.784867    -0.808033
-0.001252   -0.182480   -33.156379
 0.42252   -2.282409   -58.784867    -0.808033
-0.001252   -0.458099   -41.863249
 0.56336   -2.282409   -58.784867    -0.808033
-0.001252   -0.733659   -50.906670

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.096314   103.990265    0.928185
 0.005932   0.546651   123.296298
 0.14084   10.096314   103.990265    0.928185
 0.005932   0.159580   116.259144
 0.28168   10.096314   103.990265    0.928185
 0.005932   0.338745   116.705881
 0.42252   10.096314   103.990265    0.928185
 0.005932   0.845227   133.750945
 0.56336   10.096314   103.990265    0.928185
 0.005932   1.357185   163.716393

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -6.685434   -81.487167    -1.238653
-0.007192   -0.722611   -21.181843
 0.14084   -6.685434   -81.487167    -1.238653
-0.007192   -0.204866   -28.368553
 0.28168   -6.685434   -81.487167    -1.238653
-0.007192   -0.256471   -38.709343
 0.42252   -6.685434   -81.487167    -1.238653
-0.007192   -0.644780   -53.268696
 0.56336   -6.685434   -81.487167    -1.238653
-0.007192   -1.032866   -90.834590

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.852432   118.873379    1.172598
 0.004765   0.675799   121.186489
 0.14084    8.852432   118.873379    1.172598
 0.004765   0.185390   110.595089
 0.28168    8.852432   118.873379    1.172598
 0.004765   0.451050   112.176106
 0.42252    8.852432   118.873379    1.172598
 0.004765   1.125327   131.004601
 0.56336    8.852432   118.873379    1.172598
 0.004765   1.803319   159.496588

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -9.815028   -78.445379    -1.630901
-0.005382   -0.934204   -20.540186
 0.14084   -9.815028   -78.445379    -1.630901
-0.005382   -0.251670   -25.819676
 0.28168   -9.815028   -78.445379    -1.630901
-0.005382   -0.323375   -44.233858
 0.42252   -9.815028   -78.445379    -1.630901
-0.005382   -0.814834   -72.839012
 0.56336   -9.815028   -78.445379    -1.630901
-0.005382   -1.305931   -117.877837

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000    8.048645   111.558557    1.437542
 0.004481   0.821438   106.071473
 0.14084    8.048645   111.558557    1.437542
 0.004481   0.219247   100.961685
 0.28168    8.048645   111.558557    1.437542
 0.004481   0.531311   105.880735
 0.42252    8.048645   111.558557    1.437542
 0.004481   1.325817   125.265996
 0.56336    8.048645   111.558557    1.437542
 0.004481   2.123607   152.691244
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3555

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   -11.457602   -74.348431    -1.914345
-0.004471   -1.086925   -41.391705
 0.14084   -11.457602   -74.348431    -1.914345
-0.004471   -0.287527   -50.253291
 0.28168   -11.457602   -74.348431    -1.914345
-0.004471   -0.396301   -69.934951
 0.42252   -11.457602   -74.348431    -1.914345
-0.004471   -0.899085   -98.311745
 0.56336   -11.457602   -74.348431    -1.914345
-0.004471   -1.601534  -141.310644

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.298356   128.121530    0.823231
 0.005960   0.471161   126.025992
 0.14084   11.298356   128.121530    0.823231
 0.005960   0.130312   115.146526
 0.28168   11.298356   128.121530    0.823231
 0.005960   0.299773   118.486528
 0.42252   11.298356   128.121530    0.823231
 0.005960   0.742965   139.670192
 0.56336   11.298356   128.121530    0.823231
 0.005960   1.192250   170.786247

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.379924   -88.113553    -1.078499
-0.007288   -0.617020   -59.971778
 0.14084  -12.379924   -88.113553    -1.078499
-0.007288   -0.165674   -69.987063
 0.28168  -12.379924   -88.113553    -1.078499
-0.007288   -0.227531   -80.381928
 0.42252  -12.379924   -88.113553    -1.078499
-0.007288   -0.572750   -106.158164
 0.56336  -12.379924   -88.113553    -1.078499
-0.007288   -0.917933   -139.251079

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   10.096314   118.873379    1.501660
 0.005932   0.855063   128.714267
 0.14084   10.096314   118.873379    1.501660
 0.005932   0.225211   124.899734
 0.28168   10.096314   118.873379    1.501660
 0.005932   0.532079   127.911059
 0.42252   10.096314   118.873379    1.501660
 0.005932   1.325817   146.746267
 0.56336   10.096314   118.873379    1.501660
 0.005932   2.123607   174.551592

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -11.828835   -81.487167    -1.914345
-0.007192   -1.088925   -66.556639
 0.14084  -11.828835   -81.487167    -1.914345
-0.007192   -0.287527   -77.238752
 0.28168  -11.828835   -81.487167    -1.914345
-0.007192   -0.412777   -88.676369
 0.42252  -11.828835   -81.487167    -1.914345
-0.007192   -1.042771   -109.091902
 0.56336  -11.828835   -81.487167    -1.914345
-0.007192   -1.672345   -141.903098

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.298356   128.121530    1.501660
 0.005960   0.855063   128.714267
 0.14084   11.298356   128.121530    1.501660
 0.005960   0.225211   124.899734
 0.28168   11.298356   128.121530    1.501660
 0.005960   0.532079   127.911059
 0.42252   11.298356   128.121530    1.501660
 0.005960   1.325817   146.746267
 0.56336   11.298356   128.121530    1.501660
 0.005960   2.123607   174.551592
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3556

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.379924   -88.113553    -1.914345
-0.007288   -1.088925   -66.556639
 0.14084  -12.379924   -88.113553    -1.914345
-0.007288   -0.287527   -77.238752
 0.28168  -12.379924   -88.113553    -1.914345
-0.007288   -0.412777   -88.676369
 0.42252  -12.379924   -88.113553    -1.914345
-0.007288   -1.042771   -109.091902
 0.56336  -12.379924   -88.113553    -1.914345
-0.007288   -1.672345   -141.903098

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.00000   11.298356   128.121530    1.501660
 0.005960   0.855063   128.714267
 0.14084   11.298356   128.121530    1.501660
 0.005960   0.225211   124.899734
 0.28168   11.298356   128.121530    1.501660
 0.005960   0.532079   127.911059
 0.42252   11.298356   128.121530    1.501660
 0.005960   1.325817   146.746267
 0.56336   11.298356   128.121530    1.501660
 0.005960   2.123607   174.551592

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.00000  -12.379924   -88.113553    -1.914345
-0.007288   -1.088925   -66.556639
 0.14084  -12.379924   -88.113553    -1.914345
-0.007288   -0.287527   -77.238752
 0.28168  -12.379924   -88.113553    -1.914345
-0.007288   -0.412777   -88.676369
 0.42252  -12.379924   -88.113553    -1.914345
-0.007288   -1.042771   -109.091902
 0.56336  -12.379924   -88.113553    -1.914345
-0.007288   -1.672345   -141.903098

ELEM      338 ================== LENGTH
=    2.976832

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43671    0.603359   17.071575    0.391395
 0.000890   0.035222    2.355291
 0.57753    0.603359   17.071575    0.391395
 0.000890   0.270947    2.342587
 0.71835    0.603359   17.071575    0.391395
 0.000890   0.106864    2.868388
 0.85918    0.603359   17.071575    0.391395
 0.000890   0.057697    5.465737
 1.00000    0.603359   17.071575    0.391395
 0.000890   0.223126    8.518788

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43671   -4.525135   -8.063385    -0.394605
-1.35E-05   -0.438562   -23.394727
 0.57753   -4.525135   -8.063385    -0.394605
-1.35E-05   -0.273143   -29.882669
 0.71835   -4.525135   -8.063385    -0.394605
-1.35E-05   -0.107740   -36.408542
 0.85918   -4.525135   -8.063385    -0.394605
-1.35E-05   -0.057223   -42.934106
 1.00000   -4.525135   -8.063385    -0.394605
-1.35E-05   -0.221293   -49.679312

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43671    1.000783   42.551613    0.633982
 0.001746   0.704768   30.453851
 0.57753    1.000783   42.551613    0.633982
 0.001746   0.439002   22.406396
 0.71835    1.000783   42.551613    0.633982
 0.001746   0.181175   15.372523
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3557

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
 0.85918    1.000783   42.551613    0.633982
 0.001746   0.096080   12.190556
 1.00000    1.000783   42.551613    0.633982
 0.001746   0.371440   15.346592

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43671   -8.936932   -13.807352    -0.656877
-0.000314   -0.730053   -29.697185
 0.57753   -8.936932   -13.807352    -0.656877
-0.000314   -0.454703   -36.582550
 0.71835   -8.936932   -13.807352    -0.656877
-0.000314   -0.179375   -46.037780
 0.85918   -8.936932   -13.807352    -0.656877
-0.000314   -0.093042   -58.192132
 1.00000   -8.936932   -13.807352    -0.656877
-0.000314   -0.358515   -71.101623

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43671    1.039481   96.303306    0.658280
 0.001373   0.732112   176.650992
 0.57753    1.039481   96.303306    0.658280
 0.001373   0.456156   145.033451
 0.71835    1.039481   96.303306    0.658280
 0.001373   0.180053   113.907728
 0.85918    1.039481   96.303306    0.658280
 0.001373   0.121808   85.761835
 1.00000    1.039481   96.303306    0.658280
 0.001373   0.475733   61.555822

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43671  -12.313624   -10.720363    -0.844104
-5.69E-05   -0.939717   -27.564077
 0.57753  -12.313624   -10.720363    -0.844104
-5.69E-05   -0.585903   -34.463619
 0.71835  -12.313624   -10.720363    -0.844104
-5.69E-05   -0.232138   -42.703766
 0.85918  -12.313624   -10.720363    -0.844104
-5.69E-05   -0.095683   -52.738320
 1.00000  -12.313624   -10.720363    -0.844104
-5.69E-05   -0.371718   -63.187167

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43671    7.803843   85.764975    0.729412
 0.004669   0.811179   164.446735
 0.57753    7.803843   85.764975    0.729412
 0.004669   0.505413   138.425475
 0.71835    7.803843   85.764975    0.729412
 0.004669   0.199509   121.440367
 0.85918    7.803843   85.764975    0.729412
 0.004669   0.148571   119.342753
 1.00000    7.803843   85.764975    0.729412
 0.004669   0.537365   132.264727

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43671   -10.592563   -93.679417    -0.928597
-0.004075   -1.020255   -84.993553
 0.57753   -10.592563   -93.679417    -0.928597
-0.004075   -0.631384   -60.005668
 0.71835   -10.592563   -93.679417    -0.928597
-0.004075   -0.254410   -48.330518
 0.85918   -10.592563   -93.679417    -0.928597
-0.004075   -0.118467   -45.398707
 1.00000   -10.592563   -93.679417    -0.928597
-0.004075   -0.415986   -55.472297

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43671    0.544821   40.259069    0.226641
 0.000639   0.252172   70.701871
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3558

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
 0.57753    0.544821   40.259069    0.226641
 0.000639   0.157171   54.432100
 0.71835    0.544821   40.259069    0.226641
 0.000639   0.062142   38.534987
 0.85918    0.544821   40.259069    0.226641
 0.000639   0.042477   23.246419
 1.00000    0.544821   40.259069    0.226641
 0.000639   0.167041   13.944922

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43671   -5.396124   -3.167037    -0.297111
-0.000183   -0.331164   -6.742017
 0.57753   -5.396124   -3.167037    -0.297111
-0.000183   -0.206611   -8.104218
 0.71835   -5.396124   -3.167037    -0.297111
-0.000183   -0.082123   -6.190882
 0.85918   -5.396124   -3.167037    -0.297111
-0.000183   -0.032837   -9.042013
 1.00000   -5.396124   -3.167037    -0.297111
-0.000183   -0.127856   -12.458616

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43671    4.665463   89.264183    0.315739
 0.005201   0.351411   211.620236
 0.57753    4.665463   89.264183    0.315739
 0.005201   0.219056   177.322149
 0.71835    4.665463   89.264183    0.315739
 0.005201   0.086551   153.256764
 0.85918    4.665463   89.264183    0.315739
 0.005201   0.103545   143.582314
 1.00000    4.665463   89.264183    0.315739
 0.005201   0.348232   137.924922

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43671   -8.262944   -61.252305    -0.585450
-0.004938   -0.634159   -25.779720
 0.57753   -8.262944   -61.252305    -0.585450
-0.004938   -0.389290   -6.856102
 0.71835   -8.262944   -61.252305    -0.585450
-0.004938   -0.160695   -6.137169
 0.85918   -8.262944   -61.252305    -0.585450
-0.004938   -0.082726   -6.137205
 1.00000   -8.262944   -61.252305    -0.585450
-0.004938   -0.183615   -12.517840

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43671    4.578851   95.414151    0.582256
 0.005380   0.647587   189.595747
 0.57753    4.578851   95.414151    0.582256
 0.005380   0.403505   159.532982
 0.71835    4.578851   95.414151    0.582256
 0.005380   0.159289   138.666807
 0.85918    4.578851   95.414151    0.582256
 0.005380   0.136948   132.267511
 1.00000    4.578851   95.414151    0.582256
 0.005380   0.482741   129.474806

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43671   -11.154721   -60.985296    -0.826294
-0.004451   -0.903436   -34.419659
 0.57753   -11.154721   -60.985296    -0.826294
-0.004451   -0.557548   -23.999356
 0.71835   -11.154721   -60.985296    -0.826294
-0.004451   -0.226373   -29.767923
 0.85918   -11.154721   -60.985296    -0.826294
-0.004451   -0.099981   -38.402522
 1.00000   -11.154721   -60.985296    -0.826294
-0.004451   -0.333804   -47.580947
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3559

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
 0.43671    9.805928   84.619895    0.744716
 0.003817   0.828331   162.982619
 0.57753    9.805928   84.619895    0.744716
 0.003817   0.516145   136.051212
 0.71835    9.805928   84.619895    0.744716
 0.003817   0.203824   115.584569
 0.85918    9.805928   84.619895    0.744716
 0.003817   0.146257   106.699815
 1.00000    9.805928   84.619895    0.744716
 0.003817   0.536803   116.359670

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
 0.43671   -9.795719  -104.255154    -0.932535
-0.003690   -1.027238  -110.948673
 0.57753   -9.795719  -104.255154    -0.932535
-0.003690   -0.636668   -78.829658
 0.71835   -9.795719  -104.255154    -0.932535
-0.003690   -0.255757   -57.578328
 0.85918   -9.795719  -104.255154    -0.932535
```

```
-0.003690   -0.118258  -38.469209
1.00000   -9.795719  -104.255154   -0.932535
-0.003690   -0.423741   -43.987222

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   9.667483   9.896041   0.452315
7.30E-06   0.503258  11.601494
0.57753   9.667483   9.896041   0.452315
7.30E-06   0.313643   7.753793
0.71835   9.667483   9.896041   0.452315
7.30E-06   0.124019   4.389785
0.85918   9.667483   9.896041   0.452315
7.30E-06   0.064615   3.659653
1.00000   9.667483   9.896041   0.452315
7.30E-06   0.251864   3.156508

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -0.806913  -76.479839   -0.446517
-0.001089   -0.496872  -140.130766
0.57753  -0.806913  -76.479839   -0.446517
-0.001089   -0.309689  -108.114043
0.71835  -0.806913  -76.479839   -0.446517
-0.001089   -0.122510   -76.125460
0.85918  -0.806913  -76.479839   -0.446517
-0.001089   -0.065509   -44.145370
1.00000  -0.806913  -76.479839   -0.446517
-0.001089   -0.255203   -12.206276

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  16.207864  35.576861   0.587839
 0.005772   0.654080   90.428956
0.57753  16.207864  35.576861   0.587839
 0.005772   0.407646   79.270905
0.71835  16.207864  35.576861   0.587839
 0.005772   0.161187   80.713292
0.85918  16.207864  35.576861   0.587839
 0.005772   0.126367  100.936304
1.00000  16.207864  35.576861   0.587839
 0.005772   0.422283  122.610816

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -2.143547  -164.890752   -0.708011
-0.007218   -0.765744  -180.459818
0.57753  -2.143547  -164.890752   -0.708011
-0.007218   -0.469566  -119.596419
0.71835  -2.143547  -164.890752   -0.708011
-0.007218   -0.193128   -79.181520
0.85918  -2.143547  -164.890752   -0.708011
-0.007218   -0.105784   -40.762135
1.00000  -2.143547  -164.890752   -0.708011
-0.007218   -0.338365   -10.268762
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3560

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  13.950376  80.453077   0.659081
 0.004144   0.733429  188.512138
0.57753  13.950376  80.453077   0.659081
 0.004144   0.457141  157.514611
0.71835  13.950376  80.453077   0.659081
 0.004144   0.180753  135.304881
0.85918  13.950376  80.453077   0.659081
 0.004144   0.144080  126.243796
1.00000  13.950376  80.453077   0.659081
 0.004144   0.515074  118.965499

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -6.785938  -135.148068   -0.886254
-0.005215   -0.971601  -162.793228
0.57753  -6.785938  -135.148068   -0.886254
-0.005215   -0.600542  -111.658710
0.71835  -6.785938  -135.148068   -0.886254
-0.005215   -0.243078   -74.597654
0.85918  -6.785938  -135.148068   -0.886254
-0.005215   -0.114597   -38.536826
1.00000  -6.785938  -135.148068   -0.886254
-0.005215   -0.376415   -11.583361

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  11.960819  83.329469   0.780689
 0.004018   0.868482  164.846138
0.57753  11.960819  83.329469   0.780689
 0.004018   0.541215  135.929426
0.71835  11.960819  83.329469   0.780689
 0.004018   0.213825  115.297827
0.85918  11.960819  83.329469   0.780689
 0.004018   0.153651  106.514069
1.00000  11.960819  83.329469   0.780689
 0.004018   0.560395  102.103605

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -9.044634  -116.416212   -0.971244
-0.004358   -1.066696  -141.395915
0.57753  -9.044634  -116.416212   -0.971244
-0.004358   -0.661930  -102.491035
0.71835  -9.044634  -116.416212   -0.971244
-0.004358   -0.266402   -76.212654
0.85918  -9.044634  -116.416212   -0.971244
-0.004358   -0.125036   -52.422019
1.00000  -9.044634  -116.416212   -0.971244
-0.004358   -0.444462   -35.855481

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   0.770332  21.245561   0.681929
 0.000846   0.759511   3.285507
0.57753   0.770332  21.245561   0.681929
 0.000846   0.473655   1.875940
0.71835   0.770332  21.245561   0.681929
 0.000846   0.187243   5.049751
0.85918   0.770332  21.245561   0.681929
 0.000846   0.107854   9.049437
1.00000   0.770332  21.245561   0.681929
 0.000846   0.419467  13.329044

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -4.520492  -10.874220   -0.743831
-9.84E-06   -0.827961   -29.598581
0.57753  -4.520492  -10.874220   -0.743831
-9.84E-06   -0.516141   -34.811966
0.71835  -4.520492  -10.874220   -0.743831
-9.84E-06   -0.204349   -41.765981
0.85918  -4.520492  -10.874220   -0.743831
-9.84E-06   -0.096489   -50.236326
1.00000  -4.520492  -10.874220   -0.743831
-9.84E-06   -0.383131   -58.787227
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3561

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   1.221622  48.537301   1.081979
 0.001554   1.204473  33.305647
0.57753   1.221622  48.537301   1.081979
 0.001554   0.750561  24.315314
0.71835   1.221622  48.537301   1.081979
 0.001554   0.296463  18.113261
0.85918   1.221622  48.537301   1.081979
 0.001554   0.180799  16.520863
1.00000   1.221622  48.537301   1.081979
 0.001554   0.705994  20.441635

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -8.952270  -16.820305   -1.254020
-0.000245   -1.397044   -36.296589
0.57753  -8.952270  -16.820305   -1.254020
-0.000245   -0.871467   -42.506421
0.71835  -8.952270  -16.820305   -1.254020
-0.000245   -0.346277   -52.319134
0.85918  -8.952270  -16.820305   -1.254020
-0.000245   -0.154009   -65.493917
1.00000  -8.952270  -16.820305   -1.254020
-0.000245   -0.608726   -81.488794

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   1.351376  95.142819   1.163706
 0.001304   1.295516  178.245252
0.57753   1.351376  95.142819   1.163706
 0.001304   0.807379  148.833242
0.71835   1.351376  95.142819   1.163706
 0.001304   0.319262  121.613317
0.85918   1.351376  95.142819   1.163706
 0.001304   0.208273  98.102367
1.00000   1.351376  95.142819   1.163706
 0.001304   0.819142  78.457329

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -11.660419  -14.938538   -1.457571
-7.53E-05   -1.625955   -33.639397
0.57753  -11.660419  -14.938538   -1.457571
-7.53E-05   -1.015215   -39.433788
0.71835  -11.660419  -14.938538   -1.457571
-7.53E-05   -0.404193   -47.808690
0.85918  -11.660419  -14.938538   -1.457571
-7.53E-05   -0.164707   -59.067500
1.00000  -11.660419  -14.938538   -1.457571
-7.53E-05   -0.653378   -72.171842

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   7.152418  86.285617   1.265396
 0.003845   1.406994  170.671697
0.57753   7.152418  86.285617   1.265396
 0.003845   0.876941  145.820446
0.71835   7.152418  86.285617   1.265396
 0.003845   0.347078  130.435699
0.85918   7.152418  86.285617   1.265396
 0.003845   0.238306  130.151548
1.00000   7.152418  86.285617   1.265396
 0.003845   0.900009  142.664950

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -10.044694  -85.683254   -1.580217
-0.003262   -1.750831   -83.207336
0.57753  -10.044694  -85.683254   -1.580217
-0.003262   -1.090336   -89.527727
0.71835  -10.044694  -85.683254   -1.580217
-0.003262   -0.436555   -50.584306
0.85918  -10.044694  -85.683254   -1.580217
-0.003262   -0.192659   -51.257365
1.00000  -10.044694  -85.683254   -1.580217
-0.003262   -0.723266   -63.849542
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3562

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   0.583314  37.744780   0.383884
 0.000535   0.426998   69.124003
0.57753   0.583314  37.744780   0.383884
 0.000535   0.265981   53.735055
0.71835   0.583314  37.744780   0.383884
 0.000535   0.104802   38.972990
0.85918   0.583314  37.744780   0.383884
 0.000535   0.074349   25.642128
1.00000   0.583314  37.744780   0.383884
 0.000535   0.294047   15.962313

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -5.193443  -3.660951   -0.525059
-0.000195   -0.586596   -6.660853
0.57753  -5.193443  -3.660951   -0.525059
-0.000195   -0.366527   -6.182697
0.71835  -5.193443  -3.660952   -0.525059
-0.000195   -0.146608   -6.722791
0.85918  -5.193443  -3.660951   -0.525059
-0.000195   -0.054533   -8.422433
1.00000  -5.193443  -3.660951   -0.525059
-0.000195   -0.215749   -11.912457

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   4.241890  82.613385   0.584496
 0.004520   0.647476  214.282064
0.57753   4.241890  82.613385   0.584496
 0.004520   0.403367  182.520822
0.71835   4.241890  82.613385   0.584496
 0.004520   0.159777  160.438492
0.85918   4.241890  82.613385   0.584496
 0.004520   0.143921  150.498905
1.00000   4.241890  82.613385   0.584496
 0.004520   0.512521  144.213969

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -7.567800  -53.458395   -0.880464
-0.004293   -0.965580   -26.041684
0.57753  -7.567800  -53.458395   -0.880464
-0.004293   -0.599342   -6.931784
0.71835  -7.567800  -53.458395   -0.880464
-0.004293   -0.243770   -6.447772
0.85918  -7.567800  -53.458395   -0.880464
-0.004293   -0.103234   -8.357847
1.00000  -7.567800  -53.458395   -0.880464
-0.004293   -0.346999   -12.147959

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   4.180405  93.253778   1.032717
 0.004727   1.146753  192.186242
0.57753   4.180405  93.253778   1.032717
 0.004727   0.714533  164.418315
0.71835   4.180405  93.253778   1.032717
 0.004727   0.282534  146.255511
0.85918   4.180405  93.253778   1.032717
 0.004727   0.213095  141.022061
1.00000   4.180405  93.253778   1.032717
 0.004727   0.786584  138.574634

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -10.495961  -55.967157   -1.370075
-0.003870   -1.512427   -37.419516
0.57753  -10.495961  -55.967157   -1.370075
-0.003870   -0.940396   -25.961015
0.71835  -10.495961  -55.967157   -1.370075
-0.003870   -0.378490   -32.039998
0.85918  -10.495961  -55.967157   -1.370075
-0.003870   -0.164926   -41.700423
1.00000  -10.495961  -55.967157   -1.370075
-0.003870   -0.597322   -52.644112
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3563

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   8.817354  84.227600   1.252304
 0.003175   1.392440  165.248956
0.57753   8.817354  84.227600   1.252304
 0.003175   0.867782  139.560970
0.71835   8.817354  84.227600   1.252304
 0.003175   0.343334  121.086892
0.85918   8.817354  84.227600   1.252304
 0.003175   0.235257  114.091890
1.00000   8.817354  84.227600   1.252304
 0.003175   0.896841  126.227614

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -9.184098  -96.561340   -1.580124
-0.003037   -1.753389   -104.585690
0.57753  -9.184098  -96.561340   -1.580124
-0.003037   -1.092576   -74.103836
0.71835  -9.184098  -96.561340   -1.580124
-0.003037   -0.437530   -55.491463
0.85918  -9.184098  -96.561340   -1.580124
-0.003037   -0.189506   -41.932282
1.00000  -9.184098  -96.561340   -1.580124
-0.003037   -0.714169   -50.021618

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671   8.753082  12.355046   0.666198
 4.31E-06   0.741529   12.737640
0.57753   8.753082  12.355046   0.666198
 4.31E-06   0.462218    7.925467
0.71835   8.753082  12.355046   0.666198
 4.31E-06   0.182722    4.817076
0.85918   8.753082  12.355046   0.666198
 4.31E-06   0.106614    4.135687
1.00000   8.753082  12.355046   0.666198
 4.31E-06   0.423139    3.730259

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -0.734618  -73.700885   -0.755422
-0.001010   -0.842701   -137.590281
0.57753  -0.734618  -73.700885   -0.755422
-0.001010   -0.526123   -106.995156
0.71835  -0.734618  -73.700885   -0.755422
-0.001010   -0.209391   -77.980738
0.85918  -0.734618  -73.700885   -0.755422
-0.001010   -0.095747   -50.482542
1.00000  -0.734618  -73.700885   -0.755422
-0.001010   -0.375308   -23.103637

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  15.046302  36.641575   0.917528
 0.005808   0.634338   84.852487
0.57753  15.046302  36.641575   0.917528
 0.005808   0.634338   84.852487
0.71835  15.046302  36.641575   0.917528
 0.005808   0.251561   88.392138
0.85918  15.046302  36.641575   0.917528
 0.005808   0.187453  109.896420
1.00000  15.046302  36.641575   0.917528
 0.005808   0.659681  132.732976

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -1.840464  -158.156290   -1.129032
-0.007163   -1.233765   -177.164472
0.57753  -1.840464  -158.156290   -1.129032
-0.007163   -0.764070   -114.455226
0.71835  -1.840464  -158.156290   -1.129032
-0.007163   -0.309616   -78.608980
0.85918  -1.840464  -158.156290   -1.129032
-0.007163   -0.160396   -46.291496
1.00000  -1.840464  -158.156290   -1.129032
-0.007163   -0.543519   -17.228228
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3564

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  13.048671  74.305919   1.070545
 0.004395   1.188521  185.972494
0.57753  13.048671  74.305919   1.070545
 0.004395   0.740653  157.656662
0.71835  13.048671  74.305919   1.070545
 0.004395   0.293494  140.850203
0.85918  13.048671  74.305919   1.070545
 0.004395   0.216569  137.232867
1.00000  13.048671  74.305919   1.070545
 0.004395   0.799438  134.858383

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -5.942594  -131.610362   -1.392027
-0.005476   -1.535435   -158.683291
0.57753  -5.942594  -131.610362   -1.392027
-0.005476   -0.954684   -106.173967
0.71835  -5.942594  -131.610362   -1.392027
-0.005476   -0.385076   -73.299795
0.85918  -5.942594  -131.610362   -1.392027
-0.005476   -0.173528   -43.393185
1.00000  -5.942594  -131.610362   -1.392027
-0.005476   -0.621125   -16.372641

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  11.213440  81.004419   1.277827
 0.004177   1.419545  163.643782
0.57753  11.213440  81.004419   1.277827
 0.004177   0.884630  136.511964
0.71835  11.213440  81.004419   1.277827
 0.004177   0.349945  120.405351
0.85918  11.213440  81.004419   1.277827
 0.004177   0.246526  117.253241
1.00000  11.213440  81.004419   1.277827
 0.004177   0.925798  117.314125

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671   -8.416405  -114.826891   -1.622174
-0.004581   -1.795016  -139.714797
0.57753   -8.416405  -114.826891   -1.622174
-0.004581   -1.117242   -99.181536
0.71835   -8.416405  -114.826891   -1.622174
-0.004581   -0.448825   -76.442492
0.85918   -8.416405  -114.826891   -1.622174
-0.004581   -0.199609   -57.723611
1.00000   -8.416405  -114.826891   -1.622174
-0.004581   -0.734623   -42.392488

COMB      DB ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  16.207864  96.303306   0.780689
 0.005772   0.868482  211.620236
0.57753  16.207864  96.303306   0.780689
 0.005772   0.541215  177.322149
0.71835  16.207864  96.303306   0.780689
 0.005772   0.213825  153.256764
0.85918  16.207864  96.303306   0.780689
 0.005772   0.153651  143.582314
1.00000  16.207864  96.303306   0.780689
 0.005772   0.560395  137.924922

COMB      DB ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -12.313624  -164.890752   -0.971244
-0.007218   -1.068696   -180.459818
0.57753  -12.313624  -164.890752   -0.971244
-0.007218   -0.661930   -119.596419
0.71835  -12.313624  -164.890752   -0.971244
-0.007218   -0.266402   -79.181520
0.85918  -12.313624  -164.890752   -0.971244
-0.007218   -0.125036   -58.192232
1.00000  -12.313624  -164.890752   -0.971244
-0.007218   -0.444462   -71.101623
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3565

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  15.046302  95.142819   1.277827
 0.005808   1.419545  214.282064
0.57753  15.046302  95.142819   1.277827
 0.005808   0.884630  182.520822
0.71835  15.046302  95.142819   1.277827
 0.005808   0.349945  160.438492
0.85918  15.046302  95.142819   1.277827
 0.005808   0.246526  150.498905
1.00000  15.046302  95.142819   1.277827
 0.005808   0.925798  144.213969

COMB      DL ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -11.660419  -158.156290   -1.622174
-0.007163   -1.795016   -177.164472
0.57753  -11.660419  -158.156290   -1.622174
-0.007163   -1.117242   -114.455226
0.71835  -11.660419  -158.156290   -1.622174
-0.007163   -0.448825   -78.608980
0.85918  -11.660419  -158.156290   -1.622174
-0.007163   -0.199609   -65.493917
1.00000  -11.660419  -158.156290   -1.622174
-0.007163   -0.734623   -81.488794

COMB      CAR ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  16.207864  96.303306   1.277827
 0.005808   1.419545  214.282064
0.57753  16.207864  96.303306   1.277827
 0.005808   0.884630  182.520822
0.71835  16.207864  96.303306   1.277827
 0.005808   0.349945  160.438492
0.85918  16.207864  96.303306   1.277827
 0.005808   0.246526  150.498905
1.00000  16.207864  96.303306   1.277827
 0.005808   0.925798  144.213969

COMB      CAR ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -12.313622  -164.890752   -1.622174
-0.007218   -1.795016   -180.459818
0.57753  -12.313624  -164.890752   -1.622174
-0.007218   -1.117242   -119.596419
0.71835  -12.313624  -164.890752   -1.622174
-0.007218   -0.448825   -79.181520
0.85918  -12.313624  -164.890752   -1.622174
-0.007218   -0.199609   -57.723611
1.00000  -12.313624  -164.890752   -1.622174
-0.007218   -0.734623   -81.488794

COMB      DESIGN ---------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43671  16.207864  96.303306   1.277827
 0.005808   1.419545  214.282064
0.57753  16.207864  96.303306   1.277827
 0.005808   0.884630  182.520822
0.71835  16.207864  96.303306   1.277827
 0.005808   0.349945  160.438492
0.85918  16.207864  96.303306   1.277827
 0.005808   0.246526  150.498905
1.00000  16.207864  96.303306   1.277827
 0.005808   0.925798  144.213969

COMB      DESIGN ---------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43671  -12.313624  -164.890752   -1.622174
-0.007218   -1.795016   -180.459818
0.57753  -12.313624  -164.890752   -1.622174
-0.007218   -1.117242   -119.596419
0.71835  -12.313624  -164.890752   -1.622174
-0.007218   -0.448825   -79.181520
0.85918  -12.313624  -164.890752   -1.622174
-0.007218   -0.199609   -65.493917
1.00000  -12.313624  -164.890752   -1.622174
-0.007218   -0.734623   -81.488794
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3566

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM       339 ========== LENGTH =   2.977829

COMB DB-G1-1 ---------- MAX
```

```
REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.583570   16.892958    0.389126
0.000554   0.218549   8.528517
0.14086   0.583570   16.892958    0.389126
0.000554   0.055221   11.685979
0.28172   0.583570   16.892958    0.389126
0.000554   0.108158   14.901682
0.42258   0.583570   16.892958    0.389126
0.000554   0.271168   18.167448
0.56344   0.583570   16.892958    0.389126
0.000554   0.434196   21.447708

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -4.478919   -7.850385   -0.388665
-6.90E-06   -0.217926   -49.695464
0.14086   -4.478919   -7.850385   -0.388665
-6.90E-06   -0.054814   -56.498935
0.28172   -4.478919   -7.850385   -0.388665
-6.90E-06   -0.107899   -63.370179
0.42258   -4.478919   -7.850385   -0.388665
-6.90E-06   -0.271127   -70.250764
0.56344   -4.478919   -7.850385   -0.388665
-6.90E-06   -0.434349   -77.157314

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.864508   43.597883    0.629373
0.001205   0.353795   15.372354
0.14086   0.864508   43.597883    0.629373
0.001205   0.090011   18.323744
0.28172   0.864508   43.597883    0.629373
0.001205   0.178381   21.721031
0.42258   0.864508   43.597883    0.629373
0.001205   0.245947   25.756423
0.56344   0.864508   43.597883    0.629373
0.001205   0.714204   30.440099

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -8.938647   -11.588995   -0.639592
-0.000187   -0.359014   -71.131443
0.14086   -8.938647   -11.588995   -0.639592
-0.000187   -0.090721   -86.593232
0.28172   -8.938647   -11.588995   -0.639592
-0.000187   -0.174457   -102.385152
0.42258   -8.938647   -11.588995   -0.639592
-0.000187   -0.438509   -118.497453
0.56344   -8.938647   -11.588995   -0.639592
-0.000187   -0.702503   -135.600579

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   1.046808   94.889816    0.655183
0.001358   0.368281   61.534616
0.14086   1.046808   94.889816    0.655183
0.001358   0.093361   44.837770
0.28172   1.046808   94.889816    0.655183
0.001358   0.228420   43.032150
0.42258   1.046808   94.889816    0.655183
0.001358   0.567070   44.759748
0.56344   1.046808   94.889816    0.655183
0.001358   0.905878   47.607556

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -12.141180   -10.466333   -0.807789
-0.000223   -0.449875   -63.205097
0.14086   -12.141180   -10.466333   -0.807789
-0.000223   -0.111352   -73.577529
0.28172   -12.141180   -10.466333   -0.807789
-0.000223   -0.181228   -88.209594
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3567

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.42258   -12.141180   -10.466333   -0.807789
-0.000223   -0.456192   -125.925631
0.56344   -12.141180   -10.466333   -0.807789
-0.000223   -0.731016   -165.263336

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   5.519986   119.338676    0.724620
0.004615   0.413314   132.444861
0.14086   5.519986   119.338676    0.724620
0.004615   0.116214   120.964296
0.28172   5.519986   119.338676    0.724620
0.004615   0.251844   121.547574
0.42258   5.519986   119.338676    0.724620
0.004615   0.617338   133.606749
0.56344   5.519986   119.338676    0.724620
0.004615   0.994252   154.361560

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -12.274764   -56.631861   -0.899916
-0.003996   -0.517690   -55.478797
0.14086   -12.274764   -56.631861   -0.899916
-0.003996   -0.139808   -65.633976
0.28172   -12.274764   -56.631861   -0.899916
-0.003996   -0.200696   -79.683025
0.42258   -12.274764   -56.631861   -0.899916
-0.003996   -0.504775   -93.332181
0.56344   -12.274764   -56.631861   -0.899916
-0.003996   -0.808714   -153.903093

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.554838   39.664482    0.225364
0.000545   0.126729   13.936600
0.14086   0.554838   39.664482    0.225364
0.000545   0.032189   10.110422
0.28172   0.554838   39.664482    0.225364
0.000545   0.078881   9.459370
0.42258   0.554838   39.664482    0.225364
0.000545   0.194572   9.628207
0.56344   0.554838   39.664482    0.225364
0.000545   0.310419   10.005380

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -5.331969   -3.000790   -0.276189
-9.09E-06   -0.153217   -12.463584
0.14086   -5.331969   -3.000790   -0.276189
-9.09E-06   -0.037571   -16.293869
0.28172   -5.331969   -3.000790   -0.276189
-9.09E-06   -0.062311   -31.566315
0.42258   -5.331969   -3.000790   -0.276189
-9.09E-06   -0.156860   -47.348480
0.56344   -5.331969   -3.000790   -0.276189
-9.09E-06   -0.251384   -63.622068

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   1.477055   135.486589    0.314521
0.005618   0.185473   138.185964
0.14086   1.477055   135.486589    0.314521
0.005618   0.063122   95.156878
0.28172   1.477055   135.486589    0.314521
0.005618   0.156366   68.072967
0.42258   1.477055   135.486589    0.314521
0.005618   0.372577   56.566142
0.56344   1.477055   135.486589    0.314521
0.005618   0.604403   56.718922

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -10.636731   -9.966364   -0.554527
-0.005085   -0.326935   -12.514129
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3568

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.14086   -10.636731   -9.966364   -0.554527
-0.005085   -0.095657   -16.167513
0.28172   -10.636731   -9.966364   -0.554527
-0.005085   -0.086775   -25.038507
0.42258   -10.636731   -9.966364   -0.554527
-0.005085   -0.218851   -58.362152
0.56344   -10.636731   -9.966364   -0.554527
-0.005085   -0.350778   -103.821478

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   1.705221   137.012953    0.578619
0.005515   0.332887   129.718868
0.14086   1.705221   137.012953    0.578619
0.005515   0.098768   93.307570
0.28172   1.705221   137.012953    0.578619
0.005515   0.223045   71.208422
0.42258   1.705221   137.012953    0.578619
0.005515   0.541771   63.155421
0.56344   1.705221   137.012953    0.578619
0.005515   0.874600   65.626755

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -13.259454   -14.529096   -0.795142
-0.004595   -0.460363   -47.590990
0.14086   -13.259454   -14.529096   -0.795142
-0.004595   -0.127936   -56.805787
0.28172   -13.259454   -14.529096   -0.795142
-0.004595   -0.160108   -71.147877
0.42258   -13.259454   -14.529096   -0.795142
-0.004595   -0.402948   -107.376789
0.56344   -13.259454   -14.529096   -0.795142
-0.004595   -0.645652   -154.511302

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   8.004232   111.749143    0.739354
0.003836   0.420386   116.486085
0.14086   8.004232   111.749143    0.739354
0.003836   0.115868   115.512728
0.28172   8.004232   111.749143    0.739354
0.003836   0.253317   126.951314
0.42258   8.004232   111.749143    0.739354
0.003836   0.622986   148.431051
0.56344   8.004232   111.749143    0.739354
0.003836   1.001933   177.027552

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -11.140627   -74.536419   -0.904571
-0.003638   -0.516345   -43.987156
0.14086   -11.140627   -74.536419   -0.904571
-0.003638   -0.137694   -53.632049
0.28172   -11.140627   -74.536419   -0.904571
-0.003638   -0.204793   -67.325231
0.42258   -11.140627   -74.536419   -0.904571
-0.003638   -0.515054   -99.822602
0.56344   -11.140627   -74.536419   -0.904571
-0.003638   -0.825178   -139.806777

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   9.762210   10.063060    0.448743
0.000139   0.257519   10.322722
0.14086   9.762210   10.063060    0.448743
0.000139   0.063659   21.860362
0.28172   9.762210   10.063060    0.448743
0.000139   0.123166   53.910217
0.42258   9.762210   10.063060    0.448743
0.000139   0.309371   86.191291
0.56344   9.762210   10.063060    0.448743
0.000139   0.495579   118.562208
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3569

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -0.797747   -77.323077   -0.443935
-0.001094   -0.249272   -12.244314
0.14086   -0.797747   -77.323077   -0.443935
-0.001094   -0.062976   -11.476381
0.28172   -0.797747   -77.323077   -0.443935
-0.001094   -0.124504   -14.838092
0.42258   -0.797747   -77.323077   -0.443935
-0.001094   -0.312741   -18.449978
0.56344   -0.797747   -77.323077   -0.443935
-0.001094   -0.500972   -22.484516

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   12.417541   93.307442    0.582557
0.005965   0.337209   122.958353
0.14086   12.417541   93.307442    0.582557
0.005965   0.104409   125.822588
0.28172   12.417541   93.307442    0.582557
0.005965   0.193762   135.871151
0.42258   12.417541   93.307442    0.582557
0.005965   0.469306   162.371155
0.56344   12.417541   93.307442    0.582557
0.005965   0.763659   202.333364

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -5.154752   -103.610008   -0.703972
-0.007156   -0.141811   -10.247010
0.14086   -5.154752   -103.610008   -0.703972
-0.007156   -0.123973   -14.919933
0.28172   -5.154752   -103.610008   -0.703972
-0.007156   -0.161817   -19.683482
0.42258   -5.154752   -103.610008   -0.703972
-0.007156   -0.406210   -27.195382
0.56344   -5.154752   -103.610008   -0.703972
-0.007156   -0.650581   -51.795401

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   11.393839   119.328473    0.655054
0.004596   0.375227   119.174007
0.14086   11.393839   119.328473    0.655054
0.004596   0.108435   116.703339
0.28172   11.393839   119.328473    0.655054
0.004596   0.240746   129.370396
0.42258   11.393839   119.328473    0.655054
0.004596   0.587416   155.286074
0.56344   11.393839   119.328473    0.655054
0.004596   0.947080   191.000861

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -8.762960   -93.365589   -0.859003
-0.005301   -0.495007   -11.561038
0.14086   -8.762960   -93.365589   -0.859003
-0.005301   -0.135755   -15.287047
0.28172   -8.762960   -93.365589   -0.859003
-0.005301   -0.181369   -24.442329
0.42258   -8.762960   -93.365589   -0.859003
-0.005301   -0.456236   -55.390655
0.56344   -8.762960   -93.365589   -0.859003
-0.005301   -0.730999   -96.161503

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   9.854200   115.188071    0.775082
0.004191   0.441313   102.283855
0.14086   9.854200   115.188071    0.775082
0.004191   0.122749   101.921436
0.28172   9.854200   115.188071    0.775082
0.004191   0.263970   114.192067
0.42258   9.854200   115.188071    0.775082
0.004191   0.648666   137.470778
0.56344   9.854200   115.188071    0.775082
0.004191   1.044149   168.882279
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3570

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -10.644135   -81.770385   -0.944124
-0.004392   -0.540607   -35.849855
0.14086   -10.644135   -81.770385   -0.944124
-0.004392   -0.145426   -45.132376
0.28172   -10.644135   -81.770385   -0.944124
-0.004392   -0.214698   -58.453272
0.42258   -10.644135   -81.770385   -0.944124
-0.004392   -0.539933   -90.259446
0.56344   -10.644135   -81.770385   -0.944124
-0.004392   -0.865044   -130.621463

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.739343   20.965573    0.689156
0.000530   0.387281   13.347561
0.14086   0.739343   20.965573    0.689156
0.000530   0.097683   17.705453
0.28172   0.739343   20.965573    0.689156
0.000530   0.202907   22.106641
0.42258   0.739343   20.965573    0.689156
0.000530   0.505191   26.537912
0.56344   0.739343   20.965573    0.689156
0.000530   0.807382   30.981172

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -4.468900   -10.619805   -0.720653
-4.03E-06   -0.401878   -58.810597
0.14086   -4.468900   -10.619805   -0.720653
-4.03E-06   -0.089466   -67.351743
0.28172   -4.468900   -10.619805   -0.720653
-4.03E-06   -0.189647   -75.979370
0.42258   -4.468900   -10.619805   -0.720653
-4.03E-06   -0.479266   -84.643661
0.56344   -4.468900   -10.619805   -0.720653
-4.03E-06   -0.768412   -93.322223

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   1.121855   48.857284    1.082075
0.001070   0.471170   40.471903
0.14086   1.121855   48.857284    1.082075
0.001070   0.152557   25.322070
0.28172   1.121855   48.857284    1.082075
0.001070   0.345064   30.762744
0.42258   1.121855   48.857284    1.082075
0.001070   0.860790   36.624170
0.56344   1.121855   48.857284    1.082075
0.001070   1.376858   42.781536

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -8.933258   -15.300176   -1.230720
-0.000114   -0.688369   -81.530873
0.14086   -8.933258   -15.300176   -1.230720
-0.000114   -0.172309   -99.167995
0.28172   -8.933258   -15.300176   -1.230720
-0.000114   -0.298596   -117.351987
0.42258   -8.933258   -15.300176   -1.230720
-0.000114   -0.715322   -136.335855
0.56344   -8.933258   -15.300176   -1.230720
-0.000114   -1.207361   -156.331743

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   1.342539   93.876433    1.163512
0.001224   0.651873   78.455663
0.14086   1.342539   93.876433    1.163512
0.001224   0.163829   63.286886
0.28172   1.342539   93.876433    1.163512
0.001224   0.402494   55.315530
0.42258   1.342539   93.876433    1.163512
0.001224   1.002531   55.823608
0.56344   1.342539   93.876433    1.163512
0.001224   1.602082   59.107005
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3571

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -11.526630   -14.626511   -1.430310
-0.000218   -0.798936   -72.199350
0.14086   -11.526630   -14.626511   -1.430310
-0.000218   -0.199036   -85.431932
0.28172   -11.526630   -14.626511   -1.430310
-0.000218   -0.321143   -102.719311
0.42258   -11.526630   -14.626511   -1.430310
-0.000218   -0.809630   -136.955002
0.56344   -11.526630   -14.626511   -1.430310
-0.000218   -1.297914   -173.799923

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   5.456317   111.488091    1.267207
0.003711   0.723150   142.664722
0.14086   5.456317   111.488091    1.267207
0.003711   0.191979   135.846646
0.28172   5.456317   111.488091    1.267207
0.003711   0.436544   135.010536
0.42258   5.456317   111.488091    1.267207
0.003711   1.083299   147.448563
0.56344   5.456317   111.488091    1.267207
0.003711   1.736148   167.499382

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -11.404013   -58.227942   -1.561835
-0.003153   -0.885392   -63.859867
0.14086   -11.404013   -58.227942   -1.561835
-0.003153   -0.231013   -76.779642
0.28172   -11.404013   -58.227942   -1.561835
-0.003153   -0.349594   -93.321019
0.42258   -11.404013   -58.227942   -1.561835
-0.003153   -0.880725   -123.655085
0.56344   -11.404013   -58.227942   -1.561835
-0.003153   -1.411731   -164.266899

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.592814   37.282145    0.376806
0.000472   0.210363   15.958903
0.14086   0.592814   37.282145    0.376806
0.000472   0.052102   10.209233
0.28172   0.592814   37.282145    0.376806
0.000472   0.146715   9.575054
0.42258   0.592814   37.282145    0.376806
0.000472   0.366260   10.005945
0.56344   0.592814   37.282145    0.376806
0.000472   0.585999   10.772699

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -5.163830   -3.458622   -0.524005
-5.09E-06   -0.093564   -11.320392
0.14086   -5.163830   -3.458622   -0.524005
-5.09E-06   -0.074164   -17.804055
0.28172   -5.163830   -3.458622   -0.524005
-5.09E-06   -0.104419   -30.936146
0.42258   -5.163830   -3.458622   -0.524005
-5.09E-06   -0.262788   -45.553872
0.56344   -5.163830   -3.458622   -0.524005
-5.09E-06   -0.421037   -60.581579

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   1.615385   121.446475    0.579886
0.004811   0.343496   144.222219
0.14086   1.615385   121.446475    0.579886
0.004811   0.101580   105.152083
0.28172   1.615385   121.446475    0.579886
0.004811   0.243549   74.065477
0.42258   1.615385   121.446475    0.579886
0.004811   0.597782   61.782400
0.56344   1.615385   121.446475    0.579886
0.004811   0.961718   60.457486
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3572

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -9.722116   -10.992016   -0.875426
-0.004396   -0.508792   -12.143674
0.14086   -9.722116   -10.992016   -0.875426
-0.004396   -0.142457   -16.314698
0.28172   -9.722116   -10.992016   -0.875426
-0.004396   -0.159850   -26.254402
0.42258   -9.722116   -10.992016   -0.875426
-0.004396   -0.401811   -53.641531
0.56344   -9.722116   -10.992016   -0.875426
-0.004396   -0.644020   -96.059600

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   1.788469   128.113978    1.027988
0.004765   0.593000   138.596971
0.14086   1.788469   128.113978    1.027988
0.004765   0.162732   106.387892
0.28172   1.788469   128.113978    1.027988
0.004765   0.378029   81.449393
0.42258   1.788469   128.113978    1.027988
0.004765   0.934138   73.528098
0.56344   1.788469   128.113978    1.027988
0.004765   1.499496   75.484442

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -12.401368   -17.342493   -1.354250
-0.003978   -0.774443   -52.660395
0.14086   -12.401368   -17.342493   -1.354250
-0.003978   -0.207174   -63.882084
0.28172   -12.401368   -17.342493   -1.354250
-0.003978   -0.283652   -80.658996
0.42258   -12.401368   -17.342493   -1.354250
-0.003978   -0.714030   -112.598715
0.56344   -12.401368   -17.342493   -1.354250
-0.003978   -1.144406   -158.905384

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   7.445995   105.110388    1.248152
0.003121   0.709611   126.205341
0.14086   7.445995   105.110388    1.248152
0.003121   0.186277   128.191188
0.28172   7.445995   105.110388    1.248152
0.003121   0.439233   136.355855
0.42258   7.445995   105.110388    1.248152
0.003121   1.092257   156.881189
0.56344   7.445995   105.110388    1.248152
0.003121   1.750590   184.035330

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000   -10.307216   -74.070195   -1.573842
-0.002948   -0.890848   -50.021771
0.14086   -10.307216   -74.070195   -1.573842
-0.002948   -0.231532   -61.986010
0.28172   -10.307216   -74.070195   -1.573842
-0.002948   -0.345135   -78.470358
0.42258   -10.307216   -74.070195   -1.573842
-0.002948   -0.868290   -108.391487
0.56344   -10.307216   -74.070195   -1.573842
-0.002948   -1.391450   -147.115562

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   8.831244   12.546807    0.662361
0.000125   0.371261   3.724707
0.14086   8.831244   12.546807    0.662361
0.000125   0.092529   21.307643
0.28172   8.831244   12.546807    0.662361
0.000125   0.212907   51.588954
0.42258   8.831244   12.546807    0.662361
0.000125   0.535207   82.282333
0.56344   8.831244   12.546807    0.662361
0.000125   0.857539   113.226669
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.740938	-74.471179	-0.768364
-0.000988	-0.430892	-23.127247	
0.14086	-0.740938	-74.471179	-0.768364
-0.000988	-0.109075	-17.744151	
0.28172	-0.740938	-74.471179	-0.768364
-0.000988	-0.183783	-21.827998	
0.42258	-0.740938	-74.471179	-0.768364
-0.000988	-0.461832	-26.482574	
0.56344	-0.740938	-74.471179	-0.768364
-0.000988	-0.739601	-31.554025	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.383318	93.170716	0.917199
0.005927	0.541983	132.766192	
0.14086	11.383318	93.170716	0.917199
0.005927	0.157530	134.484504	
0.28172	11.383318	93.170716	0.917199
0.005927	0.313721	142.400044	
0.42258	11.383318	93.170716	0.917199
0.005927	0.775284	165.490844	
0.56344	11.383318	93.170716	0.917199
0.005927	1.250620	201.449980	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.001897	-99.005945	-1.143300
-0.007024	-0.667499	-1.221412	
0.14086	-5.001897	-99.005945	-1.143300
-0.007024	-0.189476	-21.079585	
0.28172	-5.001897	-99.005945	-1.143300
-0.007024	-0.253674	-27.273100	
0.42258	-5.001897	-99.005945	-1.143300
-0.007024	-0.636290	-36.632689	
0.56344	-5.001897	-99.005945	-1.143300
-0.007024	-1.019604	-66.008762	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.442858	114.492220	1.065705
0.004679	0.616486	134.862308	
0.14086	10.442858	114.492220	1.065705
0.004679	0.169891	128.955618	
0.28172	10.442858	114.492220	1.065705
0.004679	0.388356	132.539788	
0.42258	10.442858	114.492220	1.065705
0.004679	0.962138	153.898613	
0.56344	10.442858	114.492220	1.065705
0.004679	1.546228	185.925598	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.173674	-89.044055	-1.399922
-0.005390	-0.803353	-16.364753	
0.14086	-8.173674	-89.044055	-1.399922
-0.005390	-0.217432	-19.965246	
0.28172	-8.173674	-89.044055	-1.399922
-0.005390	-0.394896	-21.139449	
0.42258	-8.173674	-89.044055	-1.399922
-0.005390	-0.740194	-56.755804	
0.56344	-8.173674	-89.044055	-1.399922
-0.005390	-1.186417	-96.760377	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.053541	114.058086	1.269781
0.004240	0.727347	117.329275	
0.14086	9.053541	114.058086	1.269781
0.004240	0.194713	114.725662	
0.28172	9.053541	114.058086	1.269781
0.004240	0.451760	119.909523	
0.42258	9.053541	114.058086	1.269781
0.004240	1.122424	139.864321	
0.56344	9.053541	114.058086	1.269781
0.004240	1.801638	168.695945	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.244860	-79.386225	-1.625444
-0.004477	-0.926369	-42.403665	
0.14086	-10.244860	-79.386225	-1.625444
-0.004477	-0.245583	-52.693472	
0.28172	-10.244860	-79.386225	-1.625444
-0.004477	-0.351320	-69.303103	
0.42258	-10.244860	-79.386225	-1.625444
-0.004477	-0.882939	-97.893069	
0.56344	-10.244860	-79.386225	-1.625444
-0.004477	-1.414966	-138.821231	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.417541	137.012953	0.775082
0.005965	0.441313	138.185964	
0.14086	12.417541	137.012953	0.775082
0.005965	0.122749	125.825868	
0.28172	12.417541	137.012953	0.775082
0.005965	0.263970	135.871151	
0.42258	12.417541	137.012953	0.775082
0.005965	0.648666	162.371155	
0.56344	12.417541	137.012953	0.775082
0.005965	1.044149	202.333364	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.259454	-103.610008	-0.944124
-0.007156	-0.540607	-71.131443	
0.14086	-13.259454	-103.610008	-0.944124
-0.007156	-0.145426	-86.593232	
0.28172	-13.259454	-103.610008	-0.944124
-0.007156	-0.214698	-102.385152	
0.42258	-13.259454	-103.610008	-0.944124
-0.007156	-0.539933	-125.925631	
0.56344	-13.259454	-103.610008	-0.944124
-0.007156	-0.865044	-165.263336	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.383318	128.113978	1.269781
0.005927	0.727347	144.222219	
0.14086	11.383318	128.113978	1.269781
0.005927	0.194713	135.846646	
0.28172	11.383318	128.113978	1.269781
0.005927	0.451760	142.400044	
0.42258	11.383318	128.113978	1.269781
0.005927	1.122424	165.490844	
0.56344	11.383318	128.113978	1.269781
0.005927	1.801638	201.449980	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.401368	-99.005945	-1.625444
-0.007024	-0.926369	-81.530873	
0.14086	-12.401368	-99.005945	-1.625444
-0.007024	-0.245583	-99.167995	
0.28172	-12.401368	-99.005945	-1.625444
-0.007024	-0.351320	-117.351987	
0.42258	-12.401368	-99.005945	-1.625444
-0.007024	-0.882939	-136.955002	
0.56344	-12.401368	-99.005945	-1.625444
-0.007024	-1.414966	-173.799923	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.417541	137.012953	1.269781
0.005965	0.727347	144.222219	
0.14086	12.417541	137.012953	1.269781
0.005965	0.194713	135.846646	
0.28172	12.417541	137.012953	1.269781
0.005965	0.451760	142.400044	
0.42258	12.417541	137.012953	1.269781
0.005965	1.122424	165.490844	
0.56344	12.417541	137.012953	1.269781
0.005965	1.801638	202.333364	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.259454	-103.610008	-1.625444
-0.007156	-0.926369	-81.530873	
0.14086	-13.259454	-103.610008	-1.625444
-0.007156	-0.245583	-99.167995	
0.28172	-13.259454	-103.610008	-1.625444
-0.007156	-0.351320	-117.351987	
0.42258	-13.259454	-103.610008	-1.625444
-0.007156	-0.882939	-136.955002	
0.56344	-13.259454	-103.610008	-1.625444
-0.007156	-1.414966	-173.799923	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.417541	137.012953	1.269781
0.005965	0.727347	144.222219	
0.14086	12.417541	137.012953	1.269781
0.005965	0.194713	135.846646	
0.28172	12.417541	137.012953	1.269781
0.005965	0.451760	142.400044	
0.42258	12.417541	137.012953	1.269781
0.005965	1.122424	165.490844	
0.56344	12.417541	137.012953	1.269781
0.005965	1.801638	202.333364	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.259454	-103.610008	-1.625444
-0.007156	-0.926369	-81.530873	
0.14086	-13.259454	-103.610008	-1.625444
-0.007156	-0.245583	-99.167995	
0.28172	-13.259454	-103.610008	-1.625444
-0.007156	-0.351320	-117.351987	
0.42258	-13.259454	-103.610008	-1.625444
-0.007156	-0.882939	-136.955002	
0.56344	-13.259454	-103.610008	-1.625444
-0.007156	-1.414966	-173.799923	

ELEM 340 ========== LENGTH = 2.977485

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.078712	18.738390	0.344418
0.000552	0.382192	2.201331	
0.57746	0.078712	18.738390	0.344418
0.000552	0.237754	2.593391	
0.71831	0.078712	18.738390	0.344418
0.000552	0.093308	3.106974	
0.85915	0.078712	18.738390	0.344418
0.000552	0.054680	4.405451	
1.00000	0.078712	18.738390	0.344418
0.000552	0.210357	6.054158	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-5.336868	-4.516570	-0.371149
-0.000173	-0.412241	-24.987657	
0.57746	-5.336868	-4.516570	-0.371149
-0.000173	-0.256601	-32.426273	
0.71831	-5.336868	-4.516570	-0.371149
-0.000173	-0.100951	-39.890555	
0.85915	-5.336868	-4.516570	-0.371149
-0.000173	-0.051070	-47.377063	
1.00000	-5.336868	-4.516570	-0.371149
-0.000173	-0.195588	-54.963562	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.649902	45.072005	0.557614
0.001247	0.619120	31.943301	
0.57746	0.649902	45.072005	0.557614
0.001247	0.385276	23.501232	
0.71831	0.649902	45.072005	0.557614
0.001247	0.151411	16.243643	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85915	0.649902	45.072005	0.557614
0.001247	0.088386	11.536543	
1.00000	0.649902	45.072005	0.557614
0.001247	0.339186	12.258698	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-9.639339	-8.314308	-0.597757
-0.000683	-0.663586	-28.749680	
0.57746	-9.639339	-8.314308	-0.597757
-0.000683	-0.413174	-38.077749	
0.71831	-9.639339	-8.314308	-0.597757
-0.000683	-0.162861	-49.014948	
0.85915	-9.639339	-8.314308	-0.597757
-0.000683	-0.083077	-62.303259	
1.00000	-9.639339	-8.314308	-0.597757
-0.000683	-0.316974	-76.786246	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.744221	98.537174	0.572335
0.000947	0.635883	181.547753	
0.57746	0.744221	98.537174	0.572335
0.000947	0.395862	149.724993	
0.71831	0.744221	98.537174	0.572335
0.000947	0.155784	118.501301	
0.85915	0.744221	98.537174	0.572335
0.000947	0.098245	88.846443	
1.00000	0.744221	98.537174	0.572335
0.000947	0.378748	62.519867	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.833730	-5.943161	-0.668268
-0.000473	-0.742266	-25.330113	
0.57746	-12.833730	-5.943161	-0.668268
-0.000473	-0.462078	-34.516732	
0.71831	-12.833730	-5.943161	-0.668268
-0.000473	-0.181925	-44.387788	
0.85915	-12.833730	-5.943161	-0.668268
-0.000473	-0.08473	-55.845799	
1.00000	-12.833730	-5.943161	-0.668268
-0.000473	-0.324227	-67.888243	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	7.694974	85.988393	0.668703
0.004497	0.743212	166.980019	
0.57746	7.694974	85.988393	0.668703
0.004497	0.462781	142.478130	
0.71831	7.694974	85.988393	0.668703
0.004497	0.182283	126.240281	
0.85915	7.694974	85.988393	0.668703
0.004497	0.127134	123.546333	
1.00000	7.694974	85.988393	0.668703
0.004497	0.448806	135.906320	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.933275	-91.258805	-0.767597
-0.004279	-0.839697	-82.980448	
0.57746	-10.933275	-91.258805	-0.767597
-0.004279	-0.522924	-59.550302	
0.71831	-10.933275	-91.258805	-0.767597
-0.004279	-0.208486	-49.150810	
0.85915	-10.933275	-91.258805	-0.767597
-0.004279	-0.112607	-47.850779	
1.00000	-10.933275	-91.258805	-0.767597
-0.004279	-0.391954	-58.637605	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.629466	40.990527	0.197921
0.000511	0.220180	73.429523	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57746	0.629466	40.990527	0.197921
0.000511	0.137191	56.280249	
0.71831	0.629466	40.990527	0.197921
0.000511	0.054146	39.875364	
0.85915	0.629466	40.990527	0.197921
0.000511	0.030566	24.721263	
1.00000	0.629466	40.990527	0.197921
0.000511	0.117656	14.240215	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-5.174284	-1.473064	-0.207870
-0.000381	-0.231385	-3.230190	
0.57746	-5.174284	-1.473064	-0.207870
-0.000381	-0.144220	-3.480454	
0.71831	-5.174284	-1.473064	-0.207870
-0.000381	-0.057037	-4.555727	
0.85915	-5.174284	-1.473064	-0.207870
-0.000381	-0.028792	-7.714340	
1.00000	-5.174284	-1.473064	-0.207870
-0.000381	-0.111865	-11.651554	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	4.784035	89.570690	0.282564
0.005168	0.314485	147.280035	
0.57746	4.784035	89.570690	0.282564
0.005168	0.195992	183.264815	
0.71831	4.784035	89.570690	0.282564
0.005168	0.077444	159.083076	
0.85915	4.784035	89.570690	0.282564
0.005168	0.075583	149.603050	
1.00000	4.784035	89.570690	0.282564
0.005168	0.233371	143.502068	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-8.008881	-60.571423	-0.377446
-0.005152	-0.400978	-20.786731	
0.57746	-8.008881	-60.571423	-0.377446
-0.005152	-0.249716	-3.579007	
0.71831	-8.008881	-60.571423	-0.377446
-0.005152	-0.101687	-4.214491	
0.85915	-8.008881	-60.571423	-0.377446
-0.005152	-0.060896	-7.580203	
1.00000	-8.008881	-60.571423	-0.377446
-0.005152	-0.177892	-11.628338	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	4.506922	97.033380	0.516292
0.005110	0.573825	194.489034	
0.57746	4.506922	97.033380	0.516292
0.005110	0.357313	165.073786	
0.71831	4.506922	97.033380	0.516292
0.005110	0.140733	144.490809	
0.85915	4.506922	97.033380	0.516292
0.005110	0.109383	137.336781	
1.00000	4.506922	97.033380	0.516292
0.005110	0.369211	133.035387	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-11.307173	-57.764760	-0.620553
-0.004827	-0.672832	-30.489967	
0.57746	-11.307173	-57.764760	-0.620553
-0.004827	-0.418939	-22.205156	
0.71831	-11.307173	-57.764760	-0.620553
-0.004827	-0.167933	-29.896722	
0.85915	-11.307173	-57.764760	-0.620553
-0.004827	-0.093700	-39.660636	
1.00000	-11.307173	-57.764760	-0.620553
-0.004827	-0.308854	-50.001863	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.993426	83.537080	0.698581
0.003823	0.776798	164.072103	
0.57746	9.993426	83.537080	0.698581
0.003823	0.483838	138.572052	
0.71831	9.993426	83.537080	0.698581
0.003823	0.190802	119.367275	
0.85915	9.993426	83.537080	0.698581
0.003823	0.127348	110.970438	
1.00000	9.993426	83.537080	0.698581
0.003823	0.458301	120.903081	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-9.688674	-103.507218	-0.789647
-0.003811	-0.867019	-109.362766	
0.57746	-9.688674	-103.507218	-0.789647
-0.003811	-0.540043	-78.134598	
0.71831	-9.688674	-103.507218	-0.789647
-0.003811	-0.214961	-57.489740	
0.85915	-9.688674	-103.507218	-0.789647
-0.003811	-0.113848	-38.453493	
1.00000	-9.688674	-103.507218	-0.789647
-0.003811	-0.405954	-44.819460	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	10.140686	5.786067	0.465220
0.000394	0.517767	6.935060	
0.57746	10.140686	5.786067	0.465220
0.000394	0.322668	5.701241	
0.71831	10.140686	5.786067	0.465220
0.000394	0.127550	4.348653	
0.85915	10.140686	5.786067	0.465220
0.000394	0.068721	3.711042	
1.00000	10.140686	5.786067	0.465220
0.000394	0.267825	3.086284	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.343149	-79.380871	-0.474564
-0.000759	-0.528252	-144.010506	
0.57746	-0.343149	-79.380871	-0.474564
-0.000759	-0.329243	-110.764303	
0.71831	-0.343149	-79.380871	-0.474564
-0.000759	-0.130235	-77.545123	
0.85915	-0.343149	-79.380871	-0.474564
-0.000759	-0.067488	-44.341147	
1.00000	-0.343149	-79.380871	-0.474564
-0.000759	-0.262660	-11.145362	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	16.617332	30.527080	0.603866
0.006290	0.671895	86.428309	
0.57746	16.617332	30.527080	0.603866
0.006290	0.418662	78.504008	
0.71831	16.617332	30.527080	0.603866
0.006290	0.165373	82.524709	
0.85915	16.617332	30.527080	0.603866
0.006290	0.120565	104.089654	
1.00000	16.617332	30.527080	0.603866
0.006290	0.397460	126.044345	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-1.657448	-168.651839	-0.661955
-0.006767	-0.714441	-183.272379	
0.57746	-1.657448	-168.651839	-0.661955
-0.006767	-0.445322	-121.386351	
0.71831	-1.657448	-168.651839	-0.661955
-0.006767	-0.180065	-80.335299	
0.85915	-1.657448	-168.651839	-0.661955
-0.006767	-0.112205	-40.457856	
1.00000	-1.657448	-168.651839	-0.661955
-0.006767	-0.363515	-7.560144	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	14.487961	76.223155	0.652527
0.004590	0.725333	188.043484	
0.57746	14.487961	76.223155	0.652527
0.004590	0.452689	159.604377	
0.71831	14.487961	76.223155	0.652527
0.004590	0.178977	139.410350	
0.85915	14.487961	76.223155	0.652527
0.004590	0.124679	131.561697	
1.00000	14.487961	76.223155	0.652527
0.004590	0.434812	125.263119	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-6.158860	-138.235031	-0.740370
-0.005003	-0.808141	-162.931064	
0.57746	-6.158860	-138.235031	-0.740370
-0.005003	-0.503524	-111.266845	
0.71831	-6.158860	-138.235031	-0.740370
-0.005003	-0.201621	-73.937045	
0.85915	-6.158860	-138.235031	-0.740370
-0.005003	-0.111223	-37.902503	
1.00000	-6.158860	-138.235031	-0.740370
-0.005003	-0.383640	-8.528665	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	12.408091	80.959412	0.747036
0.004215	0.830998	165.367491	
0.57746	12.408091	80.959412	0.747036
0.004215	0.517718	137.869926	
0.71831	12.408091	80.959412	0.747036
0.004215	0.204376	118.835827	
0.85915	12.408091	80.959412	0.747036
0.004215	0.135670	110.755417	
1.00000	12.408091	80.959412	0.747036
0.004215	0.485390	106.464755	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-8.611081	-116.979720	-0.834577
-0.004367	-0.915422	-140.652069	
0.57746	-8.611081	-116.979720	-0.834577
-0.004367	-0.570286	-102.316997	
0.71831	-8.611081	-116.979720	-0.834577
-0.004367	-0.227375	-76.320766	
0.85915	-8.611081	-116.979720	-0.834577
-0.004367	-0.122544	-52.184389	
1.00000	-8.611081	-116.979720	-0.834577
-0.004367	-0.434845	-34.810449	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.097169	24.133633	0.558862
0.000473	0.621110	2.752667	
0.57746	0.097169	24.133633	0.558862
0.000473	0.386497	3.821277	
0.71831	0.097169	24.133633	0.558862
0.000473	0.151752	6.227885	
0.85915	0.097169	24.133633	0.558862
0.000473	0.082724	8.967874	
1.00000	0.097169	24.133633	0.558862
0.000473	0.318660	11.875978	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-5.975260	-7.549236	-0.562965
-0.000161	-0.625692	-27.841690	
0.57746	-5.975260	-7.549236	-0.562965
-0.000161	-0.389658	-36.265665	
0.71831	-5.975260	-7.549236	-0.562965
-0.000161	-0.153584	-45.996562	
0.85915	-5.975260	-7.549236	-0.562965
-0.000161	-0.080537	-55.809841	
1.00000	-5.975260	-7.549236	-0.562965
-0.000161	-0.315471	-65.700578	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3580
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.725790	52.821900	0.869883
0.001009	0.966286	34.305893	
0.57746	0.725790	52.821900	0.869883
0.001009	0.601213	26.330614	
0.71831	0.725790	52.821900	0.869883
0.001009	0.236175	20.766547	
0.85915	0.725790	52.821900	0.869883
0.001009	0.137179	16.983777	
1.00000	0.725790	52.821900	0.869883
0.001009	0.526981	18.988567	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-9.777328	-11.487002	-0.930764
-0.000545	-1.034575	-31.819774	
0.57746	-9.777328	-11.487002	-0.930764
-0.000545	-0.644436	-42.001318	
0.71831	-9.777328	-11.487002	-0.930764
-0.000545	-0.254488	-55.867350	
0.85915	-9.777328	-11.487002	-0.930764
-0.000545	-0.125954	-70.766125	
1.00000	-9.777328	-11.487002	-0.930764
-0.000545	-0.491249	-88.999030	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.982451	99.411022	0.914120
0.000828	1.016813	184.672182	
0.57746	0.982451	99.411022	0.914120
0.000828	0.633169	156.013892	
0.71831	0.982451	99.411022	0.914120
0.000828	0.249347	129.239171	
0.85915	0.982451	99.411022	0.914120
0.000828	0.147720	103.733471	
1.00000	0.982451	99.411022	0.914120
0.000828	0.573461	82.317424	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.276674	-10.206281	-1.015136
-0.000438	-1.129831	-28.050720	
0.57746	-12.276674	-10.206281	-1.015136
-0.000438	-0.704099	-38.184590	
0.71831	-12.276674	-10.206281	-1.015136
-0.000438	-0.278366	-50.384735	
0.85915	-12.276674	-10.206281	-1.015136
-0.000438	-0.130607	-63.516053	
1.00000	-12.276674	-10.206281	-1.015136
-0.000438	-0.514907	-78.854951	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	6.917528	88.142508	1.076381
0.003580	1.188967	174.216764	
0.57746	6.917528	88.142508	1.076381
0.003580	0.740127	151.419687	
0.71831	6.917528	88.142508	1.076381
0.003580	0.293595	137.907827	
0.85915	6.917528	88.142508	1.076381
0.003580	0.182181	137.299197	
1.00000	6.917528	88.142508	1.076381
0.003580	0.674773	149.464692	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.463994	-83.477171	-1.174995
-0.003418	-1.296473	-78.358219	
0.57746	-10.463994	-83.477171	-1.174995
-0.003418	-0.805922	-58.061007	
0.71831	-10.463994	-83.477171	-1.174995
-0.003418	-0.321458	-52.630555	
0.85915	-10.463994	-83.477171	-1.174995
-0.003418	-0.166552	-55.185963	
1.00000	-10.463994	-83.477171	-1.174995
-0.003418	-0.618430	-69.130161	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3581
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.751298	38.737449	0.289560
0.000418	0.321637	72.361555	
0.57746	0.751298	38.737449	0.289560
0.000418	0.200333	56.664673	
0.71831	0.751298	38.737449	0.289560
0.000418	0.079047	41.503330	
0.85915	0.751298	38.737449	0.289560
0.000418	0.051170	27.381582	
1.00000	0.751298	38.737449	0.289560
0.000418	0.198000	17.231454	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-4.376285	-1.756029	-0.350999
-0.000309	-0.391001	-3.127841	
0.57746	-4.376285	-1.756029	-0.350999
-0.000309	-0.243829	-3.817824	
0.71831	-4.376285	-1.756029	-0.350999
-0.000309	-0.096768	-5.144066	
0.85915	-4.376285	-1.756029	-0.350999
-0.000309	-0.041640	-7.220116	
1.00000	-4.376285	-1.756029	-0.350999
-0.000309	-0.163026	-11.401605	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	4.383756	83.341965	0.474108
0.004471	0.513470	222.447647	
0.57746	4.383756	83.341965	0.474108
0.004471	0.318684	190.670819	
0.71831	4.383756	83.341965	0.474108
0.004471	0.127389	168.944759	
0.85915	4.383756	83.341965	0.474108
0.004471	0.102964	158.656495	
1.00000	4.383756	83.341965	0.474108
0.004471	0.346276	152.060193	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-6.798073	-52.526991	-0.579837
-0.004470	-0.627190	-21.780422	
0.57746	-6.798073	-52.526991	-0.579837
-0.004470	-0.387618	-3.794711	
0.71831	-6.798073	-52.526991	-0.579837
-0.004470	-0.157474	-4.726111	
0.85915	-6.798073	-52.526991	-0.579837
-0.004470	-0.086869	-7.183789	
1.00000	-6.798073	-52.526991	-0.579837
-0.004470	-0.286009	-11.736611	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	4.146620	96.049490	0.834680
0.004427	0.915344	199.003514	
0.57746	4.146620	96.049490	0.834680
0.004427	0.568925	172.003521	
0.71831	4.146620	96.049490	0.834680
0.004427	0.225189	155.198867	
0.85915	4.146620	96.049490	0.834680
0.004427	0.156554	148.740247	
1.00000	4.146620	96.049490	0.834680
0.004427	0.556882	144.879251	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-10.404091	-52.636149	-0.955150
-0.004195	-1.046138	-31.010044	
0.57746	-10.404091	-52.636149	-0.955150
-0.004195	-0.648804	-22.812058	
0.71831	-10.404091	-52.636149	-0.955150
-0.004195	-0.260041	-32.773685	
0.85915	-10.404091	-52.636149	-0.955150
-0.004195	-0.136994	-44.018743	
1.00000	-10.404091	-52.636149	-0.955150
-0.004195	-0.487778	-56.660567	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3582
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.139911	84.283685	1.091726
0.003092	1.208481	167.203848	
0.57746	9.139911	84.283685	1.091726
0.003092	0.752779	143.611328	
0.71831	9.139911	84.283685	1.091726
0.003092	0.298561	127.555759	
0.85915	9.139911	84.283685	1.091726
0.003092	0.183464	121.729399	
1.00000	9.139911	84.283685	1.091726
0.003092	0.689151	133.591007	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-8.897276	-96.271455	-1.205768
-0.003099	-1.333677	-101.113867	
0.57746	-8.897276	-96.271455	-1.205768
-0.003099	-0.829984	-72.806230	
0.71831	-8.897276	-96.271455	-1.205768
-0.003099	-0.331491	-56.285507	
0.85915	-8.897276	-96.271455	-1.205768
-0.003099	-0.165600	-43.488971	
1.00000	-8.897276	-96.271455	-1.205768
-0.003099	-0.624250	-52.857885	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	9.549377	8.268390	0.675901
0.000318	0.754620	7.050866	
0.57746	9.549377	8.268390	0.675901
0.000318	0.470898	5.430774	
0.71831	9.549377	8.268390	0.675901
0.000318	0.187532	4.778776	
0.85915	9.549377	8.268390	0.675901
0.000318	0.099469	4.235988	
1.00000	9.549377	8.268390	0.675901
0.000318	0.395163	3.686324	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.282602	-77.744516	-0.705781
-0.000645	-0.788199	-143.319181	
0.57746	-0.282602	-77.744516	-0.705781
-0.000645	-0.492230	-112.460719	
0.71831	-0.282602	-77.744516	-0.705781
-0.000645	-0.196340	-82.110026	
0.85915	-0.282602	-77.744516	-0.705781
-0.000645	-0.095061	-51.788597	
1.00000	-0.282602	-77.744516	-0.705781
-0.000645	-0.378790	-21.488829	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	15.683693	31.249809	0.953750
0.006227	1.043554	91.918368	
0.57746	15.683693	31.249809	0.953750
0.006227	0.649533	84.465726	
0.71831	15.683693	31.249809	0.953750
0.006227	0.260706	91.562439	
0.85915	15.683693	31.249809	0.953750
0.006227	0.170948	114.346312	
1.00000	15.683693	31.249809	0.953750
0.006227	0.594102	137.471510	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-1.349610	-163.174548	-1.011548
-0.006674	-1.102284	-181.765364	
0.57746	-1.349610	-163.174548	-1.011548
-0.006674	-0.682603	-118.752876	
0.71831	-1.349610	-163.174548	-1.011548
-0.006674	-0.276989	-82.397283	
0.85915	-1.349610	-163.174548	-1.011548
-0.006674	-0.163251	-47.466047	
1.00000	-1.349610	-163.174548	-1.011548
-0.006674	-0.562318	-14.532273	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3583
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	13.866406	70.312493	1.012565
0.004736	1.114752	186.735536	
0.57746	13.866406	70.312493	1.012565
0.004736	0.694336	161.742492	
0.71831	13.866406	70.312493	1.012565
0.004736	0.277315	147.419977	
0.85915	13.866406	70.312493	1.012565
0.004736	0.178262	144.454438	
1.00000	13.866406	70.312493	1.012565
0.004736	0.645760	141.901869	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-5.060369	-135.439006	-1.115726
-0.005112	-1.225867	-160.932827	
0.57746	-5.060369	-135.439006	-1.115726
-0.005112	-0.761478	-108.495743	
0.71831	-5.060369	-135.439006	-1.115726
-0.005112	-0.307004	-75.391157	
0.85915	-5.060369	-135.439006	-1.115726
-0.005112	0.162526	-43.317260	
1.00000	-5.060369	-135.439006	-1.115726
-0.005112	-0.587258	-13.568284	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	11.923943	79.268260	1.149526
0.004272	1.268722	164.801430	
0.57746	11.923943	79.268260	1.149526
0.004272	0.790056	140.201160	
0.71831	11.923943	79.268260	1.149526
0.004272	0.314046	126.870918	
0.85915	11.923943	79.268260	1.149526
0.004272	0.198817	123.563183	
1.00000	11.923943	79.268260	1.149526
0.004272	0.732483	122.814011	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-7.588025	-116.104856	-1.273560
-0.004424	-1.404061	-139.020697	
0.57746	-7.588025	-116.104856	-1.273560
-0.004424	-0.872897	-99.936557	
0.71831	-7.588025	-116.104856	-1.273560
-0.004424	-0.349985	-78.758543	
0.85915	-7.588025	-116.104856	-1.273560
-0.004424	-0.179463	-58.909015	
1.00000	-7.588025	-116.104856	-1.273560
-0.004424	-0.661795	-42.198067	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	16.617332	98.537174	0.747036
0.006290	0.830998	217.282035	
0.57746	16.617332	98.537174	0.747036
0.006290	0.517718	183.264815	
0.71831	16.617332	98.537174	0.747036
0.006290	0.204376	159.083076	
0.85915	16.617332	98.537174	0.747036
0.006290	0.135670	149.603050	
1.00000	16.617332	98.537174	0.747036
0.006290	0.485390	143.502068	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.833730	-168.651839	-0.834577
-0.006767	-0.915422	-183.272379	
0.57746	-12.833730	-168.651839	-0.834577
-0.006767	-0.570286	-121.386351	
0.71831	-12.833730	-168.651839	-0.834577
-0.006767	-0.227375	-80.335299	
0.85915	-12.833730	-168.651839	-0.834577
-0.006767	-0.122244	-62.302259	
1.00000	-12.833730	-168.651839	-0.834577
-0.006767	-0.434845	-76.786246	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3584
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	15.683693	99.411022	1.149526
0.006227	1.268722	222.447647	
0.57746	15.683693	99.411022	1.149526
0.006227	0.790056	190.670819	
0.71831	15.683693	99.411022	1.149526
0.006227	0.314046	168.944759	
0.85915	15.683693	99.411022	1.149526
0.006227	0.198817	158.656495	
1.00000	15.683693	99.411022	1.149526
0.006227	0.732483	152.060193	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.276674	-163.174548	-1.273560
-0.006674	-1.404061	-181.765364	
0.57746	-12.276674	-163.174548	-1.273560
-0.006674	-0.872897	-118.752876	
0.71831	-12.276674	-163.174548	-1.273560
-0.006674	-0.349985	-82.397283	
0.85915	-12.276674	-163.174548	-1.273560
-0.006674	-0.179463	-70.766125	
1.00000	-12.276674	-163.174548	-1.273560
-0.006674	-0.661795	-88.999030	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	16.617332	99.411022	1.149526
0.006290	1.268722	222.447647	
0.57746	16.617332	99.411022	1.149526
0.006290	0.790056	190.670819	
0.71831	16.617332	99.411022	1.149526
0.006290	0.314046	168.944759	
0.85915	16.617332	99.411022	1.149526
0.006290	0.198817	158.656495	
1.00000	16.617332	99.411022	1.149526
0.006290	0.732483	152.060193	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.833730	-168.651839	-1.273560
-0.006767	-1.404061	-183.272379	
0.57746	-12.833730	-168.651839	-1.273560
-0.006767	-0.872897	-121.386351	
0.71831	-12.833730	-168.651839	-1.273560
-0.006767	-0.349985	-82.397283	
0.85915	-12.833730	-168.651839	-1.273560
-0.006767	-0.179463	-70.766125	
1.00000	-12.833730	-168.651839	-1.273560
-0.006767	-0.661795	-88.999030	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	16.617332	99.411022	1.149526
0.006290	1.268722	222.447647	
0.57746	16.617332	99.411022	1.149526
0.006290	0.790056	190.670819	
0.71831	16.617332	99.411022	1.149526
0.006290	0.314046	168.944759	
0.85915	16.617332	99.411022	1.149526
0.006290	0.198817	158.656495	
1.00000	16.617332	99.411022	1.149526
0.006290	0.732483	152.060193	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-12.833730	-168.651839	-1.273560
-0.006767	-1.404061	-183.272379	
0.57746	-12.833730	-168.651839	-1.273560
-0.006767	-0.872897	-121.386351	
0.71831	-12.833730	-168.651839	-1.273560
-0.006767	-0.349985	-82.397283	
0.85915	-12.833730	-168.651839	-1.273560
-0.006767	-0.179463	-70.766125	
1.00000	-12.833730	-168.651839	-1.273560
-0.006767	-0.661795	-88.999030	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3585
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 341 ========== LENGTH = 2.977439

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.080123	18.645828	0.337601
0.000260	0.189304	6.061636	
0.14085	0.080123	18.645828	0.337601
0.000260	0.047643	7.798987	
0.28169	0.080123	18.645828	0.337601
0.000260	0.101363	9.615974	
0.42254	0.080123	18.645828	0.337601
0.000260	0.254005	11.453407	
0.56338	0.080123	18.645828	0.337601
0.000260	0.406641	13.303399	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.288031	-4.431986	-0.363992
-1.08E-05	-0.203934	-54.982055	
0.14085	-5.288031	-4.431986	-0.363992
-1.08E-05	-0.051263	-62.683185	
0.28169	-5.288031	-4.431986	-0.363992
-1.08E-05	-0.093869	-70.404369	
0.42254	-5.288031	-4.431986	-0.363992
-1.08E-05	-0.236451	-78.140725	
0.56338	-5.288031	-4.431986	-0.363992
-1.08E-05	-0.377027	-85.908896	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.531993	46.295551	0.548320
0.000742	0.308459	12.279304	
0.14085	0.531993	46.295551	0.548320
0.000742	0.078393	12.973505	
0.28169	0.531993	46.295551	0.548320
0.000742	0.163519	14.239956	
0.42254	0.531993	46.295551	0.548320
0.000742	0.409969	16.353515	
0.56338	0.531993	46.295551	0.548320
0.000742	0.656645	18.828733	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.637446	-6.307496	-0.588719
-0.000282	-0.330917	-76.820131	
0.14085	-9.637446	-6.307496	-0.588719
-0.000282	-0.084007	-93.434570	
0.28169	-9.637446	-6.307496	-0.588719
-0.000282	-0.152167	-110.602875	
0.42254	-9.637446	-6.307496	-0.588719
-0.000282	-0.382113	-127.951039	
0.56338	-9.637446	-6.307496	-0.588719
-0.000282	-0.612034	-146.312339	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.765128	97.408054	0.565817
0.000908	0.318026	62.492086	
0.14085	0.765128	97.408054	0.565817
0.000908	0.080581	41.125046	
0.28169	0.765128	97.408054	0.565817
0.000908	0.178906	35.982836	
0.42254	0.765128	97.408054	0.565817
0.000908	0.443822	35.114304	
0.56338	0.765128	97.408054	0.565817
0.000908	0.708803	35.578237	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.661371	-5.869597	-0.632217
-0.000441	-0.351831	-67.911057	
0.14085	-12.661371	-5.869597	-0.632217
-0.000441	-0.086992	-79.884641	
0.28169	-12.661371	-5.869597	-0.632217
-0.000441	-0.156502	-93.396608	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3586
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.334070	119.692808	0.661458
0.004256	0.386044	136.069732	
0.14085	5.334070	119.692808	0.661458
0.004256	0.109088	121.249713	
0.28169	5.334070	119.692808	0.661458
0.004256	0.206410	119.757218	
0.42254	5.334070	119.692808	0.661458
0.004256	0.507203	130.293180	
0.56338	5.334070	119.692808	0.661458
0.004256	0.812726	148.522678	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.582690	-54.093550	-0.738226
-0.004062	-0.426181	-58.650573	
0.14085	-12.582690	-54.093550	-0.738226
-0.004062	-0.117392	-69.419971	
0.28169	-12.582690	-54.093550	-0.738226
-0.004062	-0.183092	-81.639546	
0.42254	-12.582690	-54.093550	-0.738226
-0.004062	-0.460128	-113.428570	
0.56338	-12.582690	-54.093550	-0.738226
-0.004062	-0.737093	-155.079194	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.635571	40.521326	0.197163
0.000404	0.111061	14.226591	
0.14085	0.635571	40.521326	0.197163
0.000404	0.028301	8.980421	
0.28169	0.635571	40.521326	0.197163
0.000404	0.057244	7.457930	
0.42254	0.635571	40.521326	0.197163
0.000404	0.144324	6.909279	
0.56338	0.635571	40.521326	0.197163
0.000404	0.231390	6.778481	

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.112155 -1.404078 -0.207635
-0.000214 -0.116906 -11.658062
0.14085 -5.112155 -1.404078 -0.207635
-0.000214 -0.029786 -15.585925
0.28169 -5.112155 -1.404078 -0.207635
-0.000214 -0.054307 -30.667098
0.42254 -5.112155 -1.404078 -0.207635
-0.000214 -0.137022 -46.783478
0.56338 -5.112155 -1.404078 -0.207635
-0.000214 -0.219704 -63.403600

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.473075 135.937012 0.283525
0.005491 0.179810 143.744971
0.14085 1.473075 135.937012 0.283525
0.005491 0.061691 97.425866
0.28169 1.473075 135.937012 0.283525
0.005491 0.098200 68.567558
0.42254 1.473075 135.937012 0.283525
0.005491 0.232452 55.853571
0.56338 1.473075 135.937012 0.283525
0.005491 0.373210 53.624090

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.339966 -9.053383 -0.348897
-0.005304 -0.212625 -11.628335
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3587

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14085 -10.339966 -9.053383 -0.348897
-0.005304 -0.067662 -15.754737
0.28169 -10.339966 -9.053383 -0.348897
-0.005304 -0.077676 -21.848364
0.42254 -10.339966 -9.053383 -0.348897
-0.005304 -0.196053 -53.923654
0.56338 -10.339966 -9.053383 -0.348897
-0.005304 -0.314370 -99.295507

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.517037 138.795945 0.512118
0.005179 0.305995 133.260946
0.14085 1.517037 138.795945 0.512118
0.005179 0.091852 92.775847
0.28169 1.517037 138.795945 0.512118
0.005179 0.165061 68.033916
0.42254 1.517037 138.795945 0.512118
0.005179 0.401444 57.820321
0.56338 1.517037 138.795945 0.512118
0.005179 0.643674 57.079738

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.371934 -11.196725 -0.589594
-0.004785 -0.346040 -50.017172
0.14085 -13.371934 -11.196725 -0.589594
-0.004785 -0.099793 -60.335484
0.28169 -13.371934 -11.196725 -0.589594
-0.004785 -0.141301 -72.600125
0.42254 -13.371934 -11.196725 -0.589594
-0.004785 -0.355608 -108.496282
0.56338 -13.371934 -11.196725 -0.589594
-0.004785 -0.569843 -156.053370

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.113837 110.712728 0.691977
0.003765 0.400442 121.014322
0.14085 8.113837 110.712728 0.691977
0.003765 0.110533 117.370714
0.28169 8.113837 110.712728 0.691977
0.003765 0.212836 127.482175
0.42254 8.113837 110.712728 0.691977
0.003765 0.524513 147.952860
0.56338 8.113837 110.712728 0.691977
0.003765 0.840034 174.885760

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.008452 -73.626316 -0.760308
-0.003623 -0.435820 -44.826236
0.14085 -11.008452 -73.626316 -0.760308
-0.003623 -0.117643 -54.406914
0.28169 -11.008452 -73.626316 -0.760308
-0.003623 -0.191563 -65.499043
0.42254 -11.008452 -73.626316 -0.760308
-0.003623 -0.481482 -96.497848
0.56338 -11.008452 -73.626316 -0.760308
-0.003623 -0.771323 -135.840055

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.233492 5.808616 0.460677
0.000475 0.258366 3.083279
0.14085 10.233492 5.808616 0.460677
0.000475 0.065092 24.157280
0.28169 10.233492 5.808616 0.460677
0.000475 0.130736 57.268891
0.42254 10.233492 5.808616 0.460677
0.000475 0.329623 91.653201
0.56338 10.233492 5.808616 0.460677
0.000475 0.524518 124.140624
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3588

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.336046 -80.043595 -0.469533
-0.000784 -0.263100 -11.187148
0.14085 -0.336046 -80.043595 -0.469533
-0.000784 -0.066146 -7.469674
0.28169 -0.336046 -80.043595 -0.469533
-0.000784 -0.128030 -9.073319
0.42254 -0.336046 -80.043595 -0.469533
-0.000784 -0.321232 -10.875434
0.56338 -0.336046 -80.043595 -0.469533
-0.000784 -0.514418 -13.077139

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.682212 88.046505 0.596880
0.006458 0.358952 126.340571
0.14085 12.682212 88.046505 0.596880
0.006458 0.109558 132.517110
0.28169 12.682212 88.046505 0.596880
0.006458 0.180418 143.269921
0.42254 12.682212 88.046505 0.596880
0.006458 0.440685 170.704594
0.56338 12.682212 88.046505 0.596880
0.006458 0.708806 210.054723

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.615402 -106.837734 -0.655086
-0.006817 -0.390876 -7.544608
0.14085 -4.615402 -106.837734 -0.655086
-0.006817 -0.117145 -9.988089
0.28169 -4.615402 -106.837734 -0.655086
-0.006817 -0.165627 -12.491081
0.42254 -4.615402 -106.837734 -0.655086
-0.006817 -0.415291 -17.306649
0.56338 -4.615402 -106.837734 -0.655086
-0.006817 -0.664894 -38.772988

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.830104 115.050803 0.649503
0.004932 0.381568 125.417260
0.14085 11.830104 115.050803 0.649503
0.004932 0.109752 121.824205
0.28169 11.830104 115.050803 0.649503
0.004932 0.198845 134.324559
0.42254 11.830104 115.050803 0.649503
0.004932 0.486327 160.556967
0.56338 11.830104 115.050803 0.649503
0.004932 0.779252 195.652432

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.102052 -96.046393 -0.709607
-0.005158 -0.411736 -8.512897
0.14085 -8.102052 -96.046393 -0.709607
-0.005158 -0.115099 -10.784461
0.28169 -8.102052 -96.046393 -0.709607
-0.005158 -0.179620 -15.144429
0.42254 -8.102052 -96.046393 -0.709607
-0.005158 -0.451574 -43.420557
0.56338 -8.102052 -96.046393 -0.709607
-0.005158 -0.723460 -82.189517

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.212195 112.813161 0.741132
0.004310 0.430047 106.597961
0.14085 10.212195 112.813161 0.741132
0.004310 0.119658 104.561565
0.28169 10.212195 112.813161 0.741132
0.004310 0.225371 115.899917
0.42254 10.212195 112.813161 0.741132
0.004310 0.555172 138.678766
0.56338 10.212195 112.813161 0.741132
0.004310 0.889472 168.794000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3589

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.182426 -82.082071 -0.806347
-0.004299 -0.463675 -34.812010
0.14085 -10.182426 -82.082071 -0.806347
-0.004299 -0.126289 -43.378455
0.28169 -10.182426 -82.082071 -0.806347
-0.004299 -0.205145 -53.463531
0.42254 -10.182426 -82.082071 -0.806347
-0.004299 -0.515606 -83.203943
0.56338 -10.182426 -82.082071 -0.806347
-0.004299 -0.826002 -122.271341

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.102516 23.991004 0.554237
0.000218 0.310571 11.894296
0.14085 0.102516 23.991004 0.554237
0.000218 0.077609 14.927228
0.28169 0.102516 23.991004 0.554237
0.000218 0.153217 18.027499
0.42254 0.102516 23.991004 0.554237
0.000218 0.383399 21.149057
0.56338 0.102516 23.991004 0.554237
0.000218 0.613647 24.281731

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.943245 -7.482567 -0.548920
-7.82E-06 -0.307152 -65.731116
0.14085 -5.943245 -7.482567 -0.548920
-7.82E-06 -0.076795 -75.658383
0.28169 -5.943245 -7.482567 -0.548920
-7.82E-06 -0.152807 -85.638140
0.42254 -5.943245 -7.482567 -0.548920
-7.82E-06 -0.385568 -95.650634
0.56338 -5.943245 -7.482567 -0.548920
-7.82E-06 -0.618226 -105.670335

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.666144 53.412275 0.856974
0.000580 0.480414 19.017015
0.14085 0.666144 53.412275 0.856974
0.000580 0.120407 21.549799
0.28169 0.666144 53.412275 0.856974
0.000580 0.254197 24.934668
0.42254 0.666144 53.412275 0.856974
0.000580 0.636064 28.749079
0.56338 0.666144 53.412275 0.856974
0.000580 1.018212 32.904005

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.780844 -10.286719 -0.911654
-0.000211 -0.511341 -89.044495
0.14085 -9.780844 -10.286719 -0.911654
-0.000211 -0.129101 -108.595804
0.28169 -9.780844 -10.286719 -0.911654
-0.000211 -0.236452 -128.866721
0.42254 -9.780844 -10.286719 -0.911654
-0.000211 -0.596047 -149.985438
0.56338 -9.780844 -10.286719 -0.911654
-0.000211 -0.955560 -171.800096

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.003829 98.391387 0.896882
0.000751 0.501778 82.310929
0.14085 1.003829 98.391387 0.896882
0.000751 0.124516 64.316524
0.28169 1.003829 98.391387 0.896882
0.000751 0.275878 53.384794
0.42254 1.003829 98.391387 0.896882
0.000751 0.687781 50.848221
0.56338 1.003829 98.391387 0.896882
0.000751 1.099597 51.576200
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3590

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.156906 -10.153529 -0.982417
-0.000377 -0.549088 -78.885047
0.14085 -12.156906 -10.153529 -0.982417
-0.000377 -0.136920 -94.294155
0.28169 -12.156906 -10.153529 -0.982417
-0.000377 -0.248568 -111.655118
0.42254 -12.156906 -10.153529 -0.982417
-0.000377 -0.525009 -146.938874
0.56338 -12.156906 -10.153529 -0.982417
-0.000377 -1.001357 -185.181887

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.222866 113.459616 1.069236
0.003334 0.611354 149.457678
0.14085 5.222866 113.459616 1.069236
0.003334 0.162391 141.078592
0.28169 5.222866 113.459616 1.069236
0.003334 0.321206 138.499738
0.42254 5.222866 113.459616 1.069236
0.003334 0.797168 148.779727
0.56338 5.222866 113.459616 1.069236
0.003334 1.279774 167.136020

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.824383 -56.034120 -1.155829
-0.003172 -0.659198 -69.143934
0.14085 -11.824383 -56.034120 -1.155829
-0.003172 -0.174578 -83.264950
0.28169 -11.824383 -56.034120 -1.155829
-0.003172 -0.294551 -99.170884
0.42254 -11.824383 -56.034120 -1.155829
-0.003172 -0.737806 -129.697995
0.56338 -11.824383 -56.034120 -1.155829
-0.003172 -1.183417 -170.105459

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.756281 38.432743 0.279640
0.000329 0.156242 17.224531
0.14085 0.756281 38.432743 0.279640
0.000329 0.039094 9.965750
0.28169 0.756281 38.432743 0.279640
0.000329 0.096470 7.841119
0.42254 0.756281 38.432743 0.279640
0.000329 0.241042 7.301808
0.56338 0.756281 38.432743 0.279640
0.000329 0.385925 7.321597

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.343064 -1.708567 -0.345500
-0.000189 -0.193947 -11.409866
0.14085 -4.343064 -1.708567 -0.345500
-0.000189 -0.049361 -17.241229
0.28169 -4.343064 -1.708567 -0.345500
-0.000189 -0.077553 -30.065966
0.42254 -4.343064 -1.708567 -0.345500
-0.000189 -0.194865 -44.955838
0.56338 -4.343064 -1.708567 -0.345500
-0.000189 -0.312077 -60.464688

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.719930 122.316192 0.462625
0.004687 0.277731 152.061740
0.14085 1.719930 122.316192 0.462625
0.004687 0.083895 111.721579
0.28169 1.719930 122.316192 0.462625
0.004687 0.155208 76.983571
0.42254 1.719930 122.316192 0.462625
0.004687 0.376628 64.498228
0.56338 1.719930 122.316192 0.462625
0.004687 0.608332 61.626657
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3591

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.932409 -9.986113 -0.560357
-0.004551 -0.332424 -11.734093
0.14085 -8.932409 -9.986113 -0.560357
-0.004551 -0.097860 -16.534243
0.28169 -8.932409 -9.986113 -0.560357
-0.004551 -0.125795 -24.697881
0.42254 -8.932409 -9.986113 -0.560357
-0.004551 -0.311920 -51.495429
0.56338 -8.932409 -9.986113 -0.560357
-0.004551 -0.501429 -92.690447

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.741220 131.183309 0.818834
0.004417 0.417448 144.893320
0.14085 1.741220 131.183309 0.818834
0.004417 0.131861 110.560669
0.28169 1.741220 131.183309 0.818834
0.004417 0.257881 83.110597
0.42254 1.741220 131.183309 0.818834
0.004417 0.634894 72.151421
0.56338 1.741220 131.183309 0.818834
0.004417 1.021252 71.755586

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.309450 -14.113877 -0.928322
-0.004109 -0.536795 -56.679315
0.14085 -12.309450 -14.113877 -0.928322
-0.004109 -0.147912 -69.464037
0.28169 -12.309450 -14.113877 -0.928322
-0.004109 -0.224074 -85.586050
0.42254 -12.309450 -14.113877 -0.928322
-0.004109 -0.560696 -118.342016
0.56338 -12.309450 -14.113877 -0.928322
-0.004109 -0.900177 -164.066552

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.759455 105.224235 1.088011
0.002972 0.619581 133.561494
0.14085 7.759455 105.224235 1.088011
0.002972 0.162783 134.723215
0.28169 7.759455 105.224235 1.088011
0.002972 0.332506 141.764121
0.42254 7.759455 105.224235 1.088011
0.002972 0.825777 160.866065
0.56338 7.759455 105.224235 1.088011
0.002972 1.324929 187.070850

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.015914 -73.720187 -1.194721
-0.002877 -0.679190 -52.861135
0.14085 -10.015914 -73.720187 -1.194721
-0.002877 -0.178230 -65.140036
0.28169 -10.015914 -73.720187 -1.194721
-0.002877 -0.299873 -80.040475
0.42254 -10.015914 -73.720187 -1.194721
-0.002877 -0.752390 -109.269605
0.56338 -10.015914 -73.720187 -1.194721
-0.002877 -1.206290 -147.050780

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.617345 8.255687 0.689038
0.000377 0.385861 3.681899
0.14085 9.617345 8.255687 0.689038
0.000377 0.096657 23.652438
0.28169 9.617345 8.255687 0.689038
0.000377 0.200197 55.649022
0.42254 9.617345 8.255687 0.689038
0.000377 0.503401 88.114019
0.56338 9.617345 8.255687 0.689038
0.000377 0.806636 120.763006
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3592

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.276231 -78.266478 -0.722922
-0.000662 -0.405346 -21.517879
0.14085 -0.276231 -78.266478 -0.722922
-0.000662 -0.102821 -14.322748
0.28169 -0.276231 -78.266478 -0.722922
-0.000662 -0.190799 -16.834082
0.42254 -0.276231 -78.266478 -0.722922
-0.000662 -0.479938 -19.746163
0.56338 -0.276231 -78.266478 -0.722922
-0.000662 -0.768952 -23.060517

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.968903 87.538557 0.968439
0.006341 0.570070 137.500629
0.14085 11.968903 87.538557 0.968439
0.006341 0.164399 143.186423
0.28169 11.968903 87.538557 0.968439
0.006341 0.281283 153.224399
0.42254 11.968903 87.538557 0.968439
0.006341 0.694188 177.386169
0.56338 11.968903 87.538557 0.968439
0.006341 1.122132 214.610273

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.479473 -103.504792 -1.029710
-0.006664 -0.604328 -14.531596
0.14085 -4.479473 -103.504792 -1.029710
-0.006664 -0.173888 -17.577515
0.28169 -4.479473 -103.504792 -1.029710
-0.006664 -0.264499 -21.642219
0.42254 -4.479473 -103.504792 -1.029710
-0.006664 -0.659246 -28.190984
0.56338 -4.479473 -103.504792 -1.029710
-0.006664 -1.059023 -53.706611

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.216127 110.467745 1.019137
0.004965 0.590198 141.882476
0.14085 11.216127 110.467745 1.019137
0.004965 0.162304 138.534134
0.28169 11.216127 110.467745 1.019137
0.004965 0.308894 142.406224
0.42254 11.216127 110.467745 1.019137
0.004965 0.763821 163.672569
0.56338 11.216127 110.467745 1.019137
0.004965 1.229396 195.974759

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.260156 -92.588365 -1.117628
-0.005172 -0.645334 -13.552609
0.14085 -7.260156 -92.588365 -1.117628
-0.005172 -0.177855 -16.849854
0.28169 -7.260156 -92.588365 -1.117628
-0.005172 -0.279580 -24.637440
0.42254 -7.260156 -92.588365 -1.117628
-0.005172 -0.699115 -47.462325
0.56338 -7.260156 -92.588365 -1.117628
-0.005172 -1.122097 -84.152674

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.728056 112.392679 1.148911
0.004305 0.659447 122.811013
0.14085 9.728056 112.392679 1.148911
0.004305 0.177127 121.584192
0.28169 9.728056 112.392679 1.148911
0.004305 0.351541 126.319769
0.42254 9.728056 112.392679 1.148911
0.004305 0.872394 145.444110
0.56338 9.728056 112.392679 1.148911
0.004305 1.402158 173.772238
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3593

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.391764 -80.530749 -1.269449
-0.004319 -0.727353 -42.202922
0.14085 -9.391764 -80.530749 -1.269449
-0.004319 -0.195892 -53.055315
0.28169 -9.391764 -80.530749 -1.269449
-0.004319 -0.315660 -67.389615
0.42254 -9.391764 -80.530749 -1.269449
-0.004319 -0.791156 -94.579781
0.56338 -9.391764 -80.530749 -1.269449
-0.004319 -1.269387 -133.441845

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.682212 138.795945 0.741132
0.006458 0.430047 143.744971
0.14085 12.682212 138.795945 0.741132
0.006458 0.119658 132.517110
0.28169 12.682212 138.795945 0.741132
0.006458 0.225371 143.269921
0.42254 12.682212 138.795945 0.741132
0.006458 0.555172 170.704594
0.56338 12.682212 138.795945 0.741132
0.006458 0.889472 210.054723

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.371934 -106.837734 -0.806347
-0.006817 -0.463675 -76.820131
0.14085 -13.371934 -106.837734 -0.806347
-0.006817 -0.126289 -93.434570

```
 0.28169  -13.371934 -106.837734   -0.806347
-0.006817   -0.205145 -110.602875
 0.42254  -13.371934 -106.837734   -0.806347
-0.006817   -0.515606 -130.673964
 0.56338  -13.371934 -106.837734   -0.806347
-0.006817   -0.826002 -171.191801

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   11.968903  131.183309    1.148911
 0.006341   0.659447  152.061740
 0.14085   11.968903  131.183309    1.148911
 0.006341   0.177127  143.186423
 0.28169   11.968903  131.183309    1.148911
 0.006341   0.351541  153.224399
 0.42254   11.968903  131.183309    1.148911
 0.006341   0.872394  177.386169
 0.56338   11.968903  131.183309    1.148911
 0.006341   1.402158  214.610273

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  -12.309450 -103.504792   -1.269449
-0.006664   -0.727353   -89.044495
 0.14085  -12.309450 -103.504792   -1.269449
-0.006664   -0.195892 -108.595804
 0.28169  -12.309450 -103.504792   -1.269449
-0.006664   -0.315660 -128.866721
 0.42254  -12.309450 -103.504792   -1.269449
-0.006664   -0.791156 -149.985438
 0.56338  -12.309450 -103.504792   -1.269449
-0.006664   -1.269387 -185.181887

COMB       CAR ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   12.682212  138.795945    1.148911
 0.006458   0.659447  152.061740
 0.14085   12.682212  138.795945    1.148911
 0.006458   0.177127  143.186423
 0.28169   12.682212  138.795945    1.148911
 0.006458   0.351541  153.224399
 0.42254   12.682212  138.795945    1.148911
 0.006458   0.872394  177.386169
 0.56338   12.682212  138.795945    1.148911
 0.006458   1.402158  214.610273
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3594

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       CAR ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  -13.371934 -106.837734   -1.269449
-0.006817   -0.727353   -89.044495
 0.14085  -13.371934 -106.837734   -1.269449
-0.006817   -0.195892 -108.595804
 0.28169  -13.371934 -106.837734   -1.269449
-0.006817   -0.315660 -128.866721
 0.42254  -13.371934 -106.837734   -1.269449
-0.006817   -0.791156 -149.985438
 0.56338  -13.371934 -106.837734   -1.269449
-0.006817   -1.269387 -185.181887

COMB     DESIGN ----------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   12.682212  138.795945    1.148911
 0.006458   0.659447  152.061740
 0.14085   12.682212  138.795945    1.148911
 0.006458   0.177127  143.186423
 0.28169   12.682212  138.795945    1.148911
 0.006458   0.351541  153.224399
 0.42254   12.682212  138.795945    1.148911
 0.006458   0.872394  177.386169
 0.56338   12.682212  138.795945    1.148911
 0.006458   1.402158  214.610273

COMB     DESIGN ----------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  -13.371934 -106.837734   -1.269449
-0.006817   -0.727353   -89.044495
 0.14085  -13.371934 -106.837734   -1.269449
-0.006817   -0.195892 -108.595804
 0.28169  -13.371934 -106.837734   -1.269449
-0.006817   -0.315660 -128.866721
 0.42254  -13.371934 -106.837734   -1.269449
-0.006817   -0.791156 -149.985438
 0.56338  -13.371934 -106.837734   -1.269449
-0.006817   -1.269387 -185.181887

ELEM      342 ================== LENGTH
=     2.977165

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   0.050350  18.777702    0.313919
 0.000175  0.347841   1.948305
 0.57749   0.050350  18.777702    0.313919
 0.000175  0.216217   2.342361
 0.71833   0.050350  18.777702    0.313919
 0.000175  0.084598   3.251484
 0.85916   0.050350  18.777702    0.313919
 0.000175  0.047026   4.837686
 1.00000   0.050350  18.777702    0.313919
 0.000175  0.201691   6.645417

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666  -5.320572  -4.758449   -0.355393
-0.000549  -0.394362  -25.068164
 0.57749  -5.320572  -4.758449   -0.355393
-0.000549  -0.245349  -32.520158
 0.71833  -5.320572  -4.758449   -0.355393
-0.000549  -0.096321  -40.002016
 0.85916  -5.320572  -4.758449   -0.355393
-0.000549  -0.046945  -47.502118
 1.00000  -5.320572  -4.758449   -0.355393
-0.000549  -0.178656  -55.102106

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   0.628446  45.146952    0.508944
 0.000688  0.563776  31.544661
 0.57749   0.628446  45.146952    0.508944
 0.000688  0.350381  23.115219
 0.71833   0.628446  45.146952    0.508944
 0.000688  0.137634  16.400130
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3595

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.85916   0.628446  45.146952    0.508944
 0.000688  0.084521  12.358425
 1.00000   0.628446  45.146952    0.508944
 0.000688  0.322947  13.232067

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -9.613146  -8.632159   -0.569721
-0.001239   -0.632565  -28.828813
 0.57749   -9.613146  -8.632159   -0.569721
-0.001239   -0.393687  -38.215815
 0.71833   -9.613146  -8.632159   -0.569721
-0.001239   -0.154771  -49.183653
 0.85916   -9.613146  -8.632159   -0.569721
-0.001239   -0.076343  -62.524517
 1.00000   -9.613146  -8.632159   -0.569721
-0.001239   -0.289855  -76.979428

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   0.744846  98.622312    0.613639
 0.000485  0.680681  181.223583
 0.57749   0.744846  98.622312    0.613639
 0.000485  0.423388  149.410583
 0.71833   0.744846  98.622312    0.613639
 0.000485  0.166152  118.681358
 0.85916   0.744846  98.622312    0.613639
 0.000485  0.084693  89.584563
 1.00000   0.744846  98.622312    0.613639
 0.000485  0.327108  63.379198

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666  -12.801345  -6.221026   -0.577954
-0.000940   -0.642245  -25.372008
 0.57749  -12.801345  -6.221026   -0.577954
-0.000940   -0.399906  -34.595139
 0.71833  -12.801345  -6.221026   -0.577954
-0.000940   -0.157576  -44.460447
 0.85916  -12.801345  -6.221026   -0.577954
-0.000940   -0.091042  -55.936759
 1.00000  -12.801345  -6.221026   -0.577954
-0.000940   -0.348500  -67.997273

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   7.703617  86.100257    0.735126
 0.004291  0.802479  166.892274
 0.57749   7.703617  86.100257    0.735126
 0.004291  0.494267  142.239226
 0.71833   7.703617  86.100257    0.735126
 0.004291  0.198769  126.365857
 0.85916   7.703617  86.100257    0.735126
 0.004291  0.113514  124.147036
 1.00000   7.703617  86.100257    0.735126
 0.004291  0.397898  136.635240

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666  -10.905085  -91.532577   -0.703671
-0.004490   -0.782315  -83.045759
 0.57749  -10.905085  -91.532577   -0.703671
-0.004490   -0.487268  -59.636853
 0.71833  -10.905085  -91.532577   -0.703671
-0.004490   -0.192199  -49.225309
 0.85916  -10.905085  -91.532577   -0.703671
-0.004490   -0.123202  -48.059416
 1.00000  -10.905085  -91.532577   -0.703671
-0.004490   -0.431117  -58.882631

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   0.639559  41.032649    0.195031
 0.000383  0.216494  73.454539
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3596

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.57749   0.639559  41.032649    0.195031
 0.000383  0.134719  56.289815
 0.71833   0.639559  41.032649    0.195031
 0.000383  0.052965  39.889213
 0.85916   0.639559  41.032649    0.195031
 0.000383  0.028269  24.907174
 1.00000   0.639559  41.032649    0.195031
 0.000383  0.110116  14.455108

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -5.163504  -1.536552   -0.195069
-0.000508   -0.217060  -3.264277
 0.57749   -5.163504  -1.536552   -0.195069
-0.000508   -0.135269  -3.553585
 0.71833   -5.163504  -1.536552   -0.195069
-0.000508   -0.053454  -4.638591
 0.85916   -5.163504  -1.536552   -0.195069
-0.000508   -0.028824  -7.815185
 1.00000   -5.163504  -1.536552   -0.195069
-0.000508   -0.110615  -11.761371

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   4.804272  89.613192    0.401379
 0.005156  0.427231  217.301931
 0.57749   4.804272  89.613192    0.401379
 0.005156  0.258965  183.318053
 0.71833   4.804272  89.613192    0.401379
 0.005156  0.108131  159.142884
 0.85916   4.804272  89.613192    0.401379
 0.005156  0.057364  149.821208
 1.00000   4.804272  89.613192    0.401379
 0.005156  0.166736  143.748211

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -7.990455  -60.619265   -0.295964
-0.005164   -0.329694  -20.745631
 0.57749   -7.990455  -60.619265   -0.295964
-0.005164   -0.205591   -3.560288
 0.71833   -7.990455  -60.619265   -0.295964
-0.005164   -0.081487   -4.176470
 0.85916   -7.990455  -60.619265   -0.295964
-0.005164   -0.079142   -7.512394
 1.00000   -7.990455  -60.619265   -0.295964
-0.005164   -0.246858  -11.612110

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   4.542531  97.105256    0.599025
 0.004834  0.648040  194.177058
 0.57749   4.542531  97.105256    0.599025
 0.004834  0.396900  164.763951
 0.71833   4.542531  97.105256    0.599025
 0.004834  0.161507  144.638339
 0.85916   4.542531  97.105256    0.599025
 0.004834  0.091422  137.998580
 1.00000   4.542531  97.105256    0.599025
 0.004834  0.302459  133.742916

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666  -11.278461  -57.960532   -0.535051
-0.005104   -0.594943  -30.501801
 0.57749  -11.278461  -57.960532   -0.535051
-0.005104   -0.370596  -22.245155

 0.71833  -11.278461  -57.960532   -0.535051
-0.005104   -0.146226  -29.936264
 0.85916  -11.278461  -57.960532   -0.535051
-0.005104   -0.106769  -39.733134
 1.00000  -11.278461  -57.960532   -0.535051
-0.005104   -0.357445  -50.089783
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3597

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   10.030092  83.685830    0.770603
 0.003818  0.844906  163.990755
 0.57749   10.030092  83.685830    0.770603
 0.003818  0.521817  138.525164
 0.71833   10.030092  83.685830    0.770603
 0.003818  0.209069  119.630189
 0.85916   10.030092  83.685830    0.770603
 0.003818  0.115948  111.502557
 1.00000   10.030092  83.685830    0.770603
 0.003818  0.415948  121.485414

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -9.664869 -103.723076   -0.736194
-0.003816   -0.818808 -109.450013
 0.57749   -9.664869 -103.723076   -0.736194
-0.003816   -0.510123  -78.228144
 0.71833   -9.664869 -103.723076   -0.736194
-0.003816   -0.201411  -57.561206
 0.85916   -9.664869 -103.723076   -0.736194
-0.003816   -0.125200  -38.526407
 1.00000   -9.664869 -103.723076   -0.736194
-0.003816   -0.448057  -45.171989

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   10.150850   5.942032    0.478340
 0.000763  0.532115   6.791479
 0.57749   10.150850   5.942032    0.478340
 0.000763  0.331551   5.078614
 0.71833   10.150850   5.942032    0.478340
 0.000763  0.131007   4.339247
 0.85916   10.150850   5.942032    0.478340
 0.000763  0.072504   3.624040
 1.00000   10.150850   5.942032    0.478340
 0.000763  0.282001   2.919354

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -0.342743  -79.456633   -0.499547
-0.000391   -0.555823  -144.166293
 0.57749   -0.342743  -79.456633   -0.499547
-0.000391   -0.346367  -110.894706
 0.71833   -0.342743  -79.456633   -0.499547
-0.000391   -0.136891   -77.649851
 0.85916   -0.342743  -79.456633   -0.499547
-0.000391   -0.089542  -44.417301
 1.00000   -0.342743  -79.456633   -0.499547
-0.000391   -0.270145  -11.196941

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   16.635934  30.691671    0.695177
 0.006773  0.750549   86.347332
 0.57749   16.635934  30.691671    0.695177
 0.006773  0.459113   78.505628
 0.71833   16.635934  30.691671    0.695177
 0.006773  0.186838   82.545786
 0.85916   16.635934  30.691671    0.695177
 0.006773  0.116495  104.027407
 1.00000   16.635934  30.691671    0.695177
 0.006773  0.383920  126.054404

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -1.652457 -168.755505   -0.680478
-0.006287   -0.757353  -183.427468
 0.57749   -1.652457 -168.755505   -0.680478
-0.006287   -0.472035  -121.516016
 0.71833   -1.652457 -168.755505   -0.680478
-0.006287   -0.186654   -80.453193
 0.85916   -1.652457 -168.755505   -0.680478
-0.006287   -0.125760   -40.555614
 1.00000   -1.652457 -168.755505   -0.680478
-0.006287   -0.416494   -8.157629
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3598

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   14.516956  76.403596    0.774197
 0.005010  0.845176   188.028907
 0.57749   14.516956  76.403596    0.774197
 0.005010  0.520586   159.631206
 0.71833   14.516956  76.403596    0.774197
 0.005010  0.210561   139.449869
 0.85916   14.516956  76.403596    0.774197
 0.005010  0.057364   131.222188
 1.00000   14.516956  76.403596    0.774197
 0.005010  0.394069   125.277071

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -6.145158 -138.336577   -0.698771
-0.004585   -0.777899  -163.067014
 0.57749   -6.145158 -138.336577   -0.698771
-0.004585   -0.484910  -111.369966
 0.71833   -6.145158 -138.336577   -0.698771
-0.004585   -0.191912   -73.998514
 0.85916   -6.145158 -138.336577   -0.698771
-0.004585   -0.129878   -37.501354
 1.00000   -6.145158 -138.336577   -0.698771
-0.004585   -0.454035   -9.038201

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   12.439913  81.141564    0.829820
 0.004375  0.909283   165.274604
 0.57749   12.439913  81.141564    0.829820
 0.004375  0.561367   137.681173
 0.71833   12.439913  81.141564    0.829820
 0.004375  0.225496   118.923816
 0.85916   12.439913  81.141564    0.829820
 0.004375  0.124766   111.129337
 1.00000   12.439913  81.141564    0.829820
 0.004375  0.445407   106.913425

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -8.590453 -117.158061   -0.788789
-0.004208   -0.877557  -140.767918
 0.57749   -8.590453 -117.158061   -0.788789
-0.004208   -0.546819  -102.434033

 0.71833   -8.590453 -117.158061   -0.788789
-0.004208   -0.216061   -76.408928
 0.85916   -8.590453 -117.158061   -0.788789
-0.004208   -0.135484   -52.272481
 1.00000   -8.590453 -117.158061   -0.788789
-0.004208   -0.483091   -35.299037

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   0.056384  23.986243    0.522511
 0.000163  0.579512   2.145615
 0.57749   0.056384  23.986243    0.522511
 0.000163  0.360275   3.714772
 0.71833   0.056384  23.986243    0.522511
 0.000163  0.140633   6.388602
 0.85916   0.056384  23.986243    0.522511
 0.000163  0.067678   9.365202
 1.00000   0.056384  23.986243    0.522511
 0.000163  0.258726  12.433081

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -5.948839  -7.929802   -0.455966
-0.000471   -0.505990  -27.632130
 0.57749   -5.948839  -7.929802   -0.455966
-0.000471   -0.314812  -36.366760
 0.71833   -5.948839  -7.929802   -0.455966
-0.000471   -0.123592  -46.042598
 0.85916   -5.948839  -7.929802   -0.455966
-0.000471   -0.075713  -55.790486
 1.00000   -5.948839  -7.929802   -0.455966
-0.000471   -0.295532  -65.614176
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3599

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   0.667419  52.643063    0.808706
 0.000549  0.897640  33.463451
 0.57749   0.667419  52.643063    0.808706
 0.000549  0.558372  26.178569
 0.71833   0.667419  52.643063    0.808706
 0.000549  0.219244  20.979356
 0.85916   0.667419  52.643063    0.808706
 0.000549  0.112678  17.561140
 1.00000   0.667419  52.643063    0.808706
 0.000549  0.427428  19.830599

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -9.733142  -11.982583   -0.751888
-0.001004   -0.834133  -30.664836
 0.57749   -9.733142  -11.982583   -0.751888
-0.001004   -0.518886  -42.110046
 0.71833   -9.733142  -11.982583   -0.751888
-0.001004   -0.203813  -55.924872
 0.85916   -9.733142  -11.982583   -0.751888
-0.001004   -0.117115  -70.749629
 1.00000   -9.733142  -11.982583   -0.751888
-0.001004   -0.456622  -88.887486

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   0.906418  99.269763    0.908086
 0.000443  1.009879  184.153080
 0.57749   0.906418  99.269763    0.908086
 0.000443  0.628936  156.048178
 0.71833   0.906418  99.269763    0.908086
 0.000443  0.247450  129.586903
 0.85916   0.906418  99.269763    0.908086
 0.000443  0.116448  104.361917
 1.00000   0.906418  99.269763    0.908086
 0.000443  0.448047  83.137210

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666  -12.209276  -10.644048   -0.791710
-0.000823   -0.878819  -27.747558
 0.57749  -12.209276  -10.644048   -0.791710
-0.000823   -0.547114  -38.285915
 0.71833  -12.209276  -10.644048   -0.791710
-0.000823   -0.215391  -50.428291
 0.85916  -12.209276  -10.644048   -0.791710
-0.000823   -0.129872  -63.476508
 1.00000  -12.209276  -10.644048   -0.791710
-0.000823   -0.511255  -78.735943

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   6.852815  88.148489    1.116114
 0.003424  1.229877  173.998576
 0.57749   6.852815  88.148489    1.116114
 0.003424  0.762497  151.331394
 0.71833   6.852815  88.148489    1.116114
 0.003424  0.304148  138.254718
 0.85916   6.852815  88.148489    1.116114
 0.003424  0.154265  137.849976
 1.00000   6.852815  88.148489    1.116114
 0.003424  0.560312  150.146009

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666  -10.406510  -83.807955   -0.971907
-0.003574   -1.077115  -78.100032
 0.57749  -10.406510  -83.807955   -0.971907
-0.003574   -0.670761  -58.151608
 0.71833  -10.406510  -83.807955   -0.971907
-0.003574   -0.264977  -52.698818
 0.85916  -10.406510  -83.807955   -0.971907
-0.003574   -0.173027  -55.261941
 1.00000  -10.406510  -83.807955   -0.971907
-0.003574   -0.641171  -69.194701
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3600

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   0.707070  38.736597    0.274612
 0.000311  0.306054   72.328374
 0.57749   0.707070  38.736597    0.274612
 0.000311  0.190925   56.702186
 0.71833   0.707070  38.736597    0.274612
 0.000311  0.075733   41.573614
 0.85916   0.707070  38.736597    0.274612
 0.000311  0.041590   27.511017
 1.00000   0.707070  38.736597    0.274612
 0.000311  0.157403   17.430096

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43666   -4.339876  -1.828758   -0.277369
-0.000416   -0.307937   -3.092751
 0.57749   -4.339876  -1.828758   -0.277369
-0.000416   -0.191630   -3.849598
```

0.71833 -4.339876 -1.828758 -0.277369
-0.000416 -0.075578 -5.193178
0.85916 -4.339876 -1.828758 -0.277369
-0.000416 -0.038912 -7.278664
1.00000 -4.339876 -1.828758 -0.277369
-0.000416 -0.153871 -11.455846

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	4.320578	83.409432	0.538897
0.004475	0.582315	222.707089	
0.57749	4.320578	83.409432	0.538897
0.004475	0.357689	190.940998	
0.71833	4.320578	83.409432	0.538897
0.004475	0.146655	169.190827	
0.85916	4.320578	83.409432	0.538897
0.004475	0.083306	158.916048	
1.00000	4.320578	83.409432	0.538897
0.004475	0.265918	152.339560	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-6.743370	-52.569951	-0.440520
-0.004468	-0.486307	-21.725399	
0.57749	-6.743370	-52.569951	-0.440520
-0.004468	-0.302011	-3.795450	
0.71833	-6.743370	-52.569951	-0.440520
-0.004468	-0.120320	-4.742528	
0.85916	-6.743370	-52.569951	-0.440520
-0.004468	-0.096304	-7.208441	
1.00000	-6.743370	-52.569951	-0.440520
-0.004468	-0.321569	-11.767179	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	4.079899	96.010707	0.861347
0.004201	0.941812	198.686744	
0.57749	4.079899	96.010707	0.861347
0.004201	0.581737	172.066656	
0.71833	4.079899	96.010707	0.861347
0.004201	0.233664	155.549897	
0.85916	4.079899	96.010707	0.861347
0.004201	0.127102	149.314981	
1.00000	4.079899	96.010707	0.861347
0.004201	0.437912	145.551181	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-10.343822	-52.918156	-0.746067
-0.004416	-0.825710	-30.702852	
0.57749	-10.343822	-52.918156	-0.746067
-0.004416	-0.513028	-22.838782	
0.71833	-10.343822	-52.918156	-0.746067
-0.004416	-0.202929	-32.818224	
0.85916	-10.343822	-52.918156	-0.746067
-0.004416	-0.141076	-44.025907	
1.00000	-10.343822	-52.918156	-0.746067
-0.004416	-0.501837	-56.634651	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3601

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	9.086615	84.448183	1.151096
0.003105	1.272000	167.088723	
0.57749	9.086615	84.448183	1.151096
0.003105	0.789894	143.801788	
0.71833	9.086615	84.448183	1.151096
0.003105	0.315249	127.911613	
0.85916	9.086615	84.448183	1.151096
0.003105	0.159942	121.162467	
1.00000	9.086615	84.448183	1.151096
0.003105	0.590670	134.071790	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-8.844647	-96.459186	-1.030099
-0.003087	-1.143598	-100.831668	
0.57749	-8.844647	-96.459186	-1.030099
-0.003087	-0.711941	-72.869560	
0.71833	-8.844647	-96.459186	-1.030099
-0.003087	-0.281567	-56.802890	
0.85916	-8.844647	-96.459186	-1.030099
-0.003087	-0.175347	-43.610816	
1.00000	-8.844647	-96.459186	-1.030099
-0.003087	-0.657915	-53.093385	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	9.555938	8.576736	0.738227
0.000648	0.822744	6.933628	
0.57749	9.555938	8.576736	0.738227
0.000648	0.513003	5.454092	
0.71833	9.555938	8.576736	0.738227
0.000648	0.203795	4.772900	
0.85916	9.555938	8.576736	0.738227
0.000648	0.100271	4.126351	
1.00000	9.555938	8.576736	0.738227
0.000648	0.394040	3.482749	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-0.278239	-77.659087	-0.700203
-0.000316	-0.779542	-143.279071	
0.57749	-0.278239	-77.659087	-0.700203
-0.000316	-0.485825	-112.622420	
0.71833	-0.278239	-77.659087	-0.700203
-0.000316	-0.192150	-82.367863	
0.85916	-0.278239	-77.659087	-0.700203
-0.000316	-0.105982	-52.116113	
1.00000	-0.278239	-77.659087	-0.700203
-0.000316	-0.415234	-21.885223	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	15.684191	31.634559	1.081936
0.006680	1.179113	92.016681	
0.57749	15.684191	31.634559	1.081936
0.006680	0.727036	84.670401	
0.71833	15.684191	31.634559	1.081936
0.006680	0.295469	91.687543	
0.85916	15.684191	31.634559	1.081936
0.006680	0.164780	114.327401	
1.00000	15.684191	31.634559	1.081936
0.006680	0.566821	137.305429	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-1.340568	-163.057093	-0.963557
-0.006224	-1.068336	-181.693207	
0.57749	-1.340568	-163.057093	-0.963557
-0.006224	-0.664210	-118.901142	
0.71833	-1.340568	-163.057093	-0.963557
-0.006224	-0.263804	-82.661299	
0.85916	-1.340568	-163.057093	-0.963557
-0.006224	-0.184035	-47.824972	
1.00000	-1.340568	-163.057093	-0.963557
-0.006224	-0.636572	-15.188061	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3602

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	13.825419	70.686388	1.139281
0.005119	1.251154	186.949202	
0.57749	13.825419	70.686388	1.139281
0.005119	0.774788	162.043286	
0.71833	13.825419	70.686388	1.139281
0.005119	0.312488	147.624618	
0.85916	13.825419	70.686388	1.139281
0.005119	0.163214	144.520099	
1.00000	13.825419	70.686388	1.139281
0.005119	0.583789	141.823480	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-5.013575	-135.358594	-1.005886
-0.004724	-1.116488	-160.910704	
0.57749	-5.013575	-135.358594	-1.005886
-0.004724	-0.694882	-108.654292	
0.71833	-5.013575	-135.358594	-1.005886
-0.004724	-0.275722	-75.646749	
0.85916	-5.013575	-135.358594	-1.005886
-0.004724	-0.183187	-43.660684	
1.00000	-5.013575	-135.358594	-1.005886
-0.004724	-0.660115	-14.150264	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	11.868308	79.523832	1.230682
0.004431	1.355256	164.658893	
0.57749	11.868308	79.523832	1.230682
0.004431	0.840280	140.321855	
0.71833	11.868308	79.523832	1.230682
0.004431	0.336980	127.121797	
0.85916	11.868308	79.523832	1.230682
0.004431	0.177684	123.855139	
1.00000	11.868308	79.523832	1.230682
0.004431	0.644864	123.073533	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-7.535360	-116.191512	-1.116932
-0.004266	-1.239460	-138.805219	
0.57749	-7.535360	-116.191512	-1.116932
-0.004266	-0.771336	-100.388241	
0.71833	-7.535360	-116.191512	-1.116932
-0.004266	-0.305301	-78.976163	
0.85916	-7.535360	-116.191512	-1.116932
-0.004266	-0.192919	-59.176084	
1.00000	-7.535360	-116.191512	-1.116932
-0.004266	-0.708347	-42.633677	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	16.635934	98.622312	0.829820
0.006773	0.859283	217.305531	
0.57749	16.635934	98.622312	0.829820
0.006773	0.561367	183.318053	
0.71833	16.635934	98.622312	0.829820
0.006773	0.225496	159.142884	
0.85916	16.635934	98.622312	0.829820
0.006773	0.124766	149.821208	
1.00000	16.635934	98.622312	0.829820
0.006773	0.445407	143.748211	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-12.801345	-168.755505	-0.788789
-0.006287	-0.877557	-183.427468	
0.57749	-12.801345	-168.755505	-0.788789
-0.006287	-0.546819	-121.516016	
0.71833	-12.801345	-168.755505	-0.788789
-0.006287	-0.216061	-80.453193	
0.85916	-12.801345	-168.755505	-0.788789
-0.006287	-0.135484	-62.524517	
1.00000	-12.801345	-168.755505	-0.788789
-0.006287	-0.483091	-76.979428	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3603

FRAME ELEMENT INTERNAL FORCES

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	15.684191	99.269763	1.230682
0.006680	1.355256	222.707089	
0.57749	15.684191	99.269763	1.230682
0.006680	0.840280	190.940998	
0.71833	15.684191	99.269763	1.230682
0.006680	0.336980	169.190827	
0.85916	15.684191	99.269763	1.230682
0.006680	0.177684	158.916048	
1.00000	15.684191	99.269763	1.230682
0.006680	0.644864	152.339560	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-12.209276	-163.057093	-1.116932
-0.006224	-1.239460	-181.693207	
0.57749	-12.209276	-163.057093	-1.116932
-0.006224	-0.771336	-118.901142	
0.71833	-12.209276	-163.057093	-1.116932
-0.006224	-0.305301	-82.661299	
0.85916	-12.209276	-163.057093	-1.116932
-0.006224	-0.192919	-70.749629	
1.00000	-12.209276	-163.057093	-1.116932
-0.006224	-0.708347	-88.887486	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	16.635934	99.269763	1.230682
0.006773	1.355256	222.707089	
0.57749	16.635934	99.269763	1.230682
0.006773	0.840280	190.940998	
0.71833	16.635934	99.269763	1.230682
0.006773	0.336980	169.190827	
0.85916	16.635934	99.269763	1.230682
0.006773	0.177684	158.916048	
1.00000	16.635934	99.269763	1.230682
0.006773	0.644864	152.339560	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-12.801345	-168.755505	-1.116932
-0.006287	-1.239460	-183.427468	
0.57749	-12.801345	-168.755505	-1.116932
-0.006287	-0.771336	-121.516016	
0.71833	-12.801345	-168.755505	-1.116932
-0.006287	-0.305301	-82.661299	
0.85916	-12.801345	-168.755505	-1.116932
-0.006287	-0.192919	-70.749629	
1.00000	-12.801345	-168.755505	-1.116932
-0.006287	-0.708347	-88.887486	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	16.635934	99.269763	1.230682
0.006773	1.355256	222.707089	
0.57749	16.635934	99.269763	1.230682
0.006773	0.840280	190.940998	
0.71833	16.635934	99.269763	1.230682
0.006773	0.336980	169.190827	
0.85916	16.635934	99.269763	1.230682
0.006773	0.177684	158.916048	
1.00000	16.635934	99.269763	1.230682
0.006773	0.644864	152.339560	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-12.801345	-168.755505	-1.116932
-0.006287	-1.239460	-183.427468	
0.57749	-12.801345	-168.755505	-1.116932
-0.006287	-0.771336	-121.516016	
0.71833	-12.801345	-168.755505	-1.116932
-0.006287	-0.305301	-82.661299	
1.00000	-12.801345	-168.755505	-1.116932
-0.006287	-0.708347	-88.887486	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3604

FRAME ELEMENT INTERNAL FORCES

ELEM 343 ========== LENGTH = 2.977215

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.049933	18.684743	0.302698
1.09E-05	0.116912	6.654632	
0.14084	0.049933	18.684743	0.302698
1.09E-05	0.042107	8.502166	
0.28168	0.049933	18.684743	0.302698
1.09E-05	0.096514	10.427189	
0.42251	0.049933	18.684743	0.302698
1.09E-05	0.241199	12.368365	
0.56335	0.049933	18.684743	0.302698
1.09E-05	0.385871	14.322051	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.271927	-4.672837	-0.345028
-0.000259	-0.192816	-55.121636	
0.14084	-5.271927	-4.672837	-0.345028
-0.000259	-0.048140	-62.839378	
0.28168	-5.271927	-4.672837	-0.345028
-0.000259	-0.084738	-70.577067	
0.42251	-5.271927	-4.672837	-0.345028
-0.000259	-0.211657	-78.316413	
0.56335	-5.271927	-4.672837	-0.345028
-0.000259	-0.338579	-86.097955	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.510590	46.369920	0.494462
0.000284	0.277443	13.255939	
0.14084	0.510590	46.369920	0.494462
0.000284	0.070005	14.083725	
0.28168	0.510590	46.369920	0.494462
0.000284	0.155085	15.584182	
0.42251	0.510590	46.369920	0.494462
0.000284	0.388239	17.840538	
0.56335	0.510590	46.369920	0.494462
0.000284	0.621355	20.448032	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.611510	-6.623564	-0.555960
-0.000736	-0.311134	-77.015174	
0.14084	-9.611510	-6.623564	-0.555960
-0.000736	-0.076480	-93.664985	
0.28168	-9.611510	-6.623564	-0.555960
-0.000736	-0.137888	-110.862241	
0.42251	-9.611510	-6.623564	-0.555960
-0.000736	-0.344587	-128.242439	
0.56335	-9.611510	-6.623564	-0.555960
-0.000736	-0.551906	-146.618917	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.765180	97.493392	0.571136
0.000443	0.316911	63.351944	
0.14084	0.765180	97.493392	0.571136
0.000443	0.077634	42.034003	
0.28168	0.765180	97.493392	0.571136
0.000443	0.157894	36.976877	
0.42251	0.765180	97.493392	0.571136
0.000443	0.396059	36.208385	
0.56335	0.765180	97.493392	0.571136
0.000443	0.634234	36.780916	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.629226	-6.146120	-0.567999
-0.000903	-0.418452	-68.021209	
0.14084	-12.629226	-6.146120	-0.567999
-0.000903	-0.080143	-80.010110	
0.28168	-12.629226	-6.146120	-0.567999
-0.000903	-0.162580	-93.606646	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3605

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.42251	-12.629226	-6.146120	-0.567999
-0.000903	-0.401944	-130.907568	
0.56335	-12.629226	-6.146120	-0.567999
-0.000903	-0.641418	-171.444057	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.340611	119.803477	0.699370
0.004061	0.403770	136.807513	
0.14084	5.340611	119.803477	0.699370
0.004061	0.111272	122.047153	
0.28168	5.340611	119.803477	0.699370
0.004061	0.192679	120.643302	
0.42251	5.340611	119.803477	0.699370
0.004061	0.482884	131.275921	
0.56335	5.340611	119.803477	0.699370
0.004061	0.773068	149.576768	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.553836	-54.361535	-0.692046
-0.004253	-0.388118	-58.895449	
0.14084	-12.553836	-54.361535	-0.692046
-0.004253	-0.109102	-69.699103	
0.28168	-12.553836	-54.361535	-0.692046
-0.004253	-0.196220	-82.000149	
0.42251	-12.553836	-54.361535	-0.692046
-0.004253	-0.477008	-113.826499	
0.56335	-12.553836	-54.361535	-0.692046
-0.004253	-0.770055	-155.480387	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.646293	40.563527	0.177641
0.000215	0.099978	14.441221	
0.14084	0.646293	40.563527	0.177641
0.000215	0.025447	9.195084	
0.28168	0.646293	40.563527	0.177641
0.000215	0.053569	7.689105	
0.42251	0.646293	40.563527	0.177641
0.000215	0.134913	7.158349	
0.56335	0.646293	40.563527	0.177641
0.000215	0.216233	7.046630	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.101423	-1.467104	-0.193941
-0.000400	-0.109061	-11.767969	
0.14084	-5.101423	-1.467104	-0.193941
-0.000400	-0.027700	-15.705170	
0.28168	-5.101423	-1.467104	-0.193941
-0.000400	-0.050686	-30.726561	
0.42251	-5.101423	-1.467104	-0.193941
-0.000400	-0.124333	-46.858254	
0.56335	-5.101423	-1.467104	-0.193941
-0.000400	-0.198094	-63.497694	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.491365	135.978384	0.370065
0.005306	0.224445	144.002351	
0.14084	1.491365	135.978384	0.370065
0.005306	0.070429	97.634704	
0.28168	1.491365	135.978384	0.370065
0.005306	0.081691	68.759945	
0.42251	1.491365	135.978384	0.370065
0.005306	0.205696	56.043906	
0.56335	1.491365	135.978384	0.370065
0.005306	0.329699	53.778756	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.320303	-9.092899	-0.295716
-0.005487	-0.166961	-11.611573	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3606

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.14084	-10.320303	-9.092899	-0.295716
-0.005487	-0.058374	-15.737006	
0.28168	-10.320303	-9.092899	-0.295716
-0.005487	-0.104361	-21.893719	
0.42251	-10.320303	-9.092899	-0.295716
-0.005487	-0.242461	-53.980161	
0.56335	-10.320303	-9.092899	-0.295716
-0.005487	-0.397354	-99.324587	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.552086	138.866533	0.562731
0.004787	0.330426	133.980256	
0.14084	1.552086	138.866533	0.562731
0.004787	0.095480	93.497267	
0.28168	1.552086	138.866533	0.562731
0.004787	0.146556	68.798150	
0.42251	1.552086	138.866533	0.562731
0.004787	0.367811	58.641608	
0.56335	1.552086	138.866533	0.562731
0.004787	0.589043	57.928300	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.342309	-11.384316	-0.527605
-0.005175	-0.296469	-50.105459	
0.14084	-13.342309	-11.384316	-0.527605
-0.005175	-0.089153	-60.437167	
0.28168	-13.342309	-11.384316	-0.527605
-0.005175	-0.158171	-72.769146	
0.42251	-13.342309	-11.384316	-0.527605
-0.005175	-0.378705	-108.689931	
0.56335	-13.342309	-11.384316	-0.527605
-0.005175	-0.614410	-156.228714	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.150464	110.859614	0.735759
0.003620	0.421558	121.602877	
0.14084	8.150464	110.859614	0.735759
0.003620	0.113722	117.979942	
0.28168	8.150464	110.859614	0.735759
0.003620	0.201950	128.145245	
0.42251	8.150464	110.859614	0.735759
0.003620	0.506337	148.684132	
0.56335	8.150464	110.859614	0.735759
0.003620	0.810697	175.666620	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.984176	-73.838639	-0.725856
-0.003766	-0.407133	-45.178047	
0.14084	-10.984176	-73.838639	-0.725856
-0.003766	-0.111847	-54.804508	
0.28168	-10.984176	-73.838639	-0.725856
-0.003766	-0.206497	-65.995824	
0.42251	-10.984176	-73.838639	-0.725856
-0.003766	-0.504865	-97.046160	
0.56335	-10.984176	-73.838639	-0.725856
-0.003766	-0.813205	-136.413778	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.243812	5.963845	0.472034
0.000803	0.264468	2.916935	
0.14084	10.243812	5.963845	0.472034
0.000803	0.066518	24.131644	
0.28168	10.243812	5.963845	0.472034
0.000803	0.137335	57.269473	
0.42251	10.243812	5.963845	0.472034
0.000803	0.343919	90.681195	
0.56335	10.243812	5.963845	0.472034
0.000803	0.550482	124.196580	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3607

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.335741	-80.122404	-0.492635
-0.000482	-0.275771	-11.240782	
0.14084	-0.335741	-80.122404	-0.492635
-0.000482	-0.069175	-8.084299	

```
0.28168    -0.335741   -80.122404   -0.492635
-0.000482   -0.131412    -9.754860
0.42251    -0.335741   -80.122404   -0.492635
-0.000482   -0.329316   -11.627015
0.56335    -0.335741   -80.122404   -0.492635
-0.000482   -0.527239   -13.894899

COMB DB-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   12.698239   88.208246   0.685901
 0.006839    0.408009  126.366264
0.14084   12.698239   88.208246   0.685901
 0.006839    0.121405  132.563596
0.28168   12.698239   88.208246   0.685901
 0.006839    0.187288  143.331071
0.42251   12.698239   88.208246   0.685901
 0.006839    0.468750  170.781759
0.56335   12.698239   88.208246   0.685901
 0.006839    0.750150  210.107833

COMB DB-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.609060 -106.935022   -0.671112
-0.006466   -0.376196   -8.139483
0.14084   -4.609060 -106.935022   -0.671112
-0.006466   -0.113608  -10.628789
0.28168   -4.609060 -106.935022   -0.671112
-0.006466   -0.189082  -13.187001
0.42251   -4.609060 -106.935022   -0.671112
-0.006466   -0.456013  -18.132509
0.56335   -4.609060 -106.935022   -0.671112
-0.006466   -0.743263  -39.605967

COMB DB-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.857270  115.229520   0.739953
 0.005180    0.428540  125.437882
0.14084   11.857270  115.229520   0.739953
 0.005180    0.119205  121.814130
0.28168   11.857270  115.229520   0.739953
 0.005180    0.192505  134.318112
0.42251   11.857270  115.229520   0.739953
 0.005180    0.482950  160.568712
0.56335   11.857270  115.229520   0.739953
 0.005180    0.773386  195.655027

COMB DB-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -8.087445  -96.144361   -0.692653
-0.004952   -0.388898   -9.020033
0.14084   -8.087445  -96.144361   -0.692653
-0.004952   -0.111294  -11.352052
0.28168   -8.087445  -96.144361   -0.692653
-0.004952   -0.207468  -15.821584
0.42251   -8.087445  -96.144361   -0.692653
-0.004952   -0.503463  -44.172114
0.56335   -8.087445  -96.144361   -0.692653
-0.004952   -0.813496  -82.978749

COMB DB-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.243050  112.993713   0.796844
 0.004317    0.455555  107.053375
0.14084   10.243050  112.993713   0.796844
 0.004317    0.124555  105.019553
0.28168   10.243050  112.993713   0.796844
 0.004317    0.216668  116.390606
0.42251   10.243050  112.993713   0.796844
 0.004317    0.543335  139.220063
0.56335   10.243050  112.993713   0.796844
 0.004317    0.869981  169.365088
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3608

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.161200   -82.256940   -0.779007
-0.004324   -0.437053   -35.299408
0.14084  -10.161200   -82.256940   -0.779007
-0.004324   -0.121005   -43.929015
0.28168  -10.161200   -82.256940   -0.779007
-0.004324   -0.223076   -54.122311
0.42251  -10.161200   -82.256940   -0.779007
-0.004324   -0.545397   -83.938049
0.56335  -10.161200   -82.256940   -0.779007
-0.004324   -0.879325  -123.049387

COMB DL-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.059663   23.842479   0.495328
 8.00E-06    0.274433   12.452363
0.14084    0.059663   23.842479   0.495328
 8.00E-06    0.086778   15.244314
0.28168    0.059663   23.842479   0.495328
 8.00E-06    0.123195   18.906608
0.42251    0.059663   23.842479   0.495328
 8.00E-06    0.307346   22.186779
0.56335    0.059663   23.842479   0.495328
 8.00E-06    0.491479   25.476163

COMB DL-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.917257   -7.861166   -0.439165
-0.000217   -0.245128   -65.639472
0.14084   -5.917257   -7.861166   -0.439165
-0.000217   -0.061219   -75.499366
0.28168   -5.917257   -7.861166   -0.439165
-0.000217   -0.138989   -85.417038
0.42251   -5.917257   -7.861166   -0.439165
-0.000217   -0.347210   -95.364827
0.56335   -5.917257   -7.861166   -0.439165
-0.000217   -0.555070  -105.333152

COMB DL-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.607273   53.231256   0.776712
 0.000213    0.432270   19.861217
0.14084    0.607273   53.231256   0.776712
 0.000213    0.105934   22.600698
0.28168    0.607273   53.231256   0.776712
 0.000213    0.202063   26.193606
0.42251    0.607273   53.231256   0.776712
 0.000213    0.502929   30.245964
0.56335    0.607273   53.231256   0.776712
 0.000213    0.803948   34.607994

COMB DL-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.738599  -10.781000   -0.717926
-0.000573   -0.400831   -88.933179
0.14084   -9.738599  -10.781000   -0.717926
-0.000573   -0.100390  -108.394542
0.28168   -9.738599  -10.781000   -0.717926
-0.000573   -0.217179  -129.056831
0.42251   -9.738599  -10.781000   -0.717926
-0.000573   -0.542846  -149.633393
0.56335   -9.738599  -10.781000   -0.717926
-0.000573   -0.868544  -171.372571

COMB DL-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.915799   98.250674   0.866765
 0.000378    0.481108   83.132473
0.14084    0.915799   98.250674   0.866765
 0.000378    0.116884   65.298884
0.28168    0.915799   98.250674   0.866765
 0.000378    0.213035   54.508816
0.42251    0.915799   98.250674   0.866765
 0.000378    0.530574   52.095250
0.56335    0.915799   98.250674   0.866765
 0.000378    0.848137   52.956789
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3609

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -12.082309  -10.588798   -0.758025
-0.000745   -0.422407   -78.767605
0.14084  -12.082309  -10.588798   -0.758025
-0.000745   -0.105087   -94.097189
0.28168  -12.082309  -10.588798   -0.758025
-0.000745   -0.243478  -111.390168
0.42251  -12.082309  -10.588798   -0.758025
-0.000745   -0.607492  -146.570593
0.56335  -12.082309  -10.588798   -0.758025
-0.000745   -0.971101  -184.726856

COMB DL-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.148610  113.468353   1.084604
 0.003172    0.616372  150.139013
0.14084    5.148610  113.468353   1.084604
 0.003172    0.161650  141.866196
0.28168    5.148610  113.468353   1.084604
 0.003172    0.264410  139.394658
0.42251    5.148610  113.468353   1.084604
 0.003172    0.660170  149.748146
0.56335    5.148610  113.468353   1.084604
 0.003172    1.057518  168.182100

COMB DL-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -11.759131  -56.360370   -0.948048
-0.003330   -0.541283   -69.208806
0.14084  -11.759131  -56.360370   -0.948048
-0.003330   -0.145139   -83.301439
0.28168  -11.759131  -56.360370   -0.948048
-0.003330   -0.302301   -99.215554
0.42251  -11.759131  -56.360370   -0.948048
-0.003330   -0.747644  -129.703388
0.56335  -11.759131  -56.360370   -0.948048
-0.003330   -1.201635  -170.068036

COMB DL-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.711831   38.430900   0.268183
 0.000190    0.150268   17.422180
0.14084    0.711831   38.430900   0.268183
 0.000190    0.037690   10.186336
0.28168    0.711831   38.430900   0.268183
 0.000190    0.074103    8.087305
0.42251    0.711831   38.430900   0.268183
 0.000190    0.183396    7.577135
0.56335    0.711831   38.430900   0.268183
 0.000190    0.292979    7.633157

COMB DL-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.307576   -1.782321   -0.261343
-0.000324   -0.145609  -11.463350
0.14084   -4.307576   -1.782321   -0.261343
-0.000324   -0.036368  -17.224563
0.28168   -4.307576   -1.782321   -0.261343
-0.000324   -0.074254  -30.045375
0.42251   -4.307576   -1.782321   -0.261343
-0.000324   -0.186829  -44.946624
0.56335   -4.307576   -1.782321   -0.261343
-0.000324   -0.299179  -60.449758

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.645110  122.374542   0.522928
 0.004553    0.310595  152.342939
0.14084    1.645110  122.374542   0.522928
 0.004553    0.092072  111.986967
0.28168    1.645110  122.374542   0.522928
 0.004553    0.118767   79.238604
0.42251    1.645110  122.374542   0.522928
 0.004553    0.293920   64.725244
0.56335    1.645110  122.374542   0.522928
 0.004553    0.471965   61.810492
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3610

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -8.866502  -10.021987   -0.425298
-0.004683   -0.255420   -11.765071
0.14084   -8.866502  -10.021987   -0.425298
-0.004683   -0.078901   -16.544417
0.28168   -8.866502  -10.021987   -0.425298
-0.004683   -0.144192   -24.730621
0.42251   -8.866502  -10.021987   -0.425298
-0.004683   -0.348740   -51.543541
0.56335   -8.866502  -10.021987   -0.425298
-0.004683   -0.566449   -92.697283

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.664202  131.138252   0.831412
 0.004110    0.479891  145.569051
0.14084    1.664202  131.138252   0.831412
 0.004110    0.131749  111.310426
0.28168    1.664202  131.138252   0.831412
 0.004110    0.200950   83.948203
0.42251    1.664202  131.138252   0.831412
 0.004110    0.498913   73.113577
0.56335    1.664202  131.138252   0.831412
 0.004110    0.799573   72.740479

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -12.238765  -14.387775   -0.717343
-0.004414   -0.416704   -56.653736
0.14084  -12.238765  -14.387775   -0.717343
-0.004414   -0.117508   -69.376644
0.28168  -12.238765  -14.387775   -0.717343
-0.004414   -0.230605   -85.471709
0.42251  -12.238765  -14.387775   -0.717343
-0.004414   -0.566191  -118.192495
0.56335  -12.238765  -14.387775   -0.717343
-0.004414   -0.913428  -163.846210

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.696463  105.382018   1.130055
 0.002875    0.640740  134.043062
0.14084    7.696463  105.382018   1.130055
 0.002875    0.166936  135.233341
0.28168    7.696463  105.382018   1.130055
 0.002875    0.281603  142.319850
0.42251    7.696463  105.382018   1.130055
 0.002875    0.703624  161.452129
0.56335    7.696463  105.382018   1.130055
 0.002875    1.127101  187.689967

COMB DL-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.954863  -73.906670   -1.010212
-0.002975   -0.557671   -53.095882
0.14084   -9.954863  -73.906670   -1.010212
-0.002975   -0.151577   -65.396658
0.28168   -9.954863  -73.906670   -1.010212
-0.002975   -0.314609   -80.358797
0.42251   -9.954863  -73.906670   -1.010212
-0.002975   -0.780563  -109.625044
0.56335   -9.954863  -73.906670   -1.010212
-0.002975   -1.253755  -147.405490

COMB DL-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.621732    8.561740   0.744466
 0.000694    0.417164    3.479019
0.14084    9.621732    8.561740   0.744466
 0.000694    0.104952   23.401753
0.28168    9.621732    8.561740   0.744466
 0.000694    0.194567   55.367171
0.42251    9.621732    8.561740   0.744466
 0.000694    0.489934   87.788815
0.56335    9.621732    8.561740   0.744466
 0.000694    0.785270  120.386966
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3611

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.271810   -78.186571   -0.703840
-0.000382   -0.394122   -21.915377
0.14084   -0.271810   -78.186571   -0.703840
-0.000382   -0.209551   -14.962855
0.28168   -0.271810   -78.186571   -0.703840
-0.000382   -0.206646   -17.604492
0.42251   -0.271810   -78.186571   -0.703840
-0.000382   -0.518750   -20.648004
0.56335   -0.271810   -78.186571   -0.703840
-0.000382   -0.831258   -24.085205

COMB DL-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.964052   87.907188   1.086898
 0.006699    0.036014  137.337373
0.14084   11.964052   87.907188   1.086898
 0.006699    0.181472  142.981974
0.28168   11.964052   87.907188   1.086898
 0.006699    0.267033  152.944393
0.42251   11.964052   87.907188   1.086898
 0.006699    0.670100  177.009989
0.56335   11.964052   87.907188   1.086898
 0.006699    1.076613  214.154027

COMB DL-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -4.465952 -103.381277   -0.969347
-0.006347   -0.568848   -15.186043
0.14084   -4.465952 -103.381277   -0.969347
-0.006347   -0.164013   -18.312861
0.28168   -4.465952 -103.381277   -0.969347
-0.006347   -0.298925   -22.546511
0.42251   -4.465952 -103.381651   -0.969347
-0.006347   -0.433360   -29.265508
0.56335   -4.465952 -103.381277   -0.969347
-0.006347   -1.187219   -54.908081

COMB DL-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.161195  110.832373   1.133396
 0.005205    0.653313  141.806547
0.14084   11.161195  110.832373   1.133396
 0.005205    0.178838  138.427120
0.28168   11.161195  110.832373   1.133396
 0.005205    0.277393  142.216839
0.42251   11.161195  110.832373   1.133396
 0.005205    0.695532  163.412900
0.56335   11.161195  110.832373   1.133396
 0.005205    1.115758  195.647785

COMB DL-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -7.202868  -92.507561   -1.002907
-0.004969   -0.579984   -14.134983
0.14084   -7.202868  -92.507561   -1.002907
-0.004969   -0.160539   -17.532884
0.28168   -7.202868  -92.507561   -1.002907
-0.004969   -0.313499   -25.448884
0.42251   -7.202868  -92.507561   -1.002907
-0.004969   -0.773616   -48.418632
0.56335   -7.202868  -92.507561   -1.002907
-0.004969   -1.247538   -85.237378

COMB DL-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.661276  112.638045   1.217183
 0.004347    0.696151  123.063590
0.14084    9.661276  112.638045   1.217183
 0.004347    0.186205  121.985518
0.28168    9.661276  112.638045   1.217183
 0.004347    0.305760  126.611476
0.42251    9.661276  112.638045   1.217183
 0.004347    0.764687  145.723368
0.56335    9.661276  112.638045   1.217183
 0.004347    1.225607  174.053443
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3612

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.331134  -80.614044   -1.099629
-0.004306   -0.630171   -42.640534
0.14084   -9.331134  -80.614044   -1.099629
-0.004306   -0.170134   -53.552919
0.28168   -9.331134  -80.614044   -1.099629
-0.004306   -0.337282   -67.976789
0.42251   -9.331134  -80.614044   -1.099629
-0.004306   -0.835191   -95.257646
0.56335   -9.331134  -80.614044   -1.099629
-0.004306   -1.344456  -134.202207

COMB      DB -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   12.698239  138.866533   0.796844
 0.006839    0.457955  144.002351
0.14084   12.698239  138.866533   0.796844
 0.006839    0.124555  132.563596
0.28168   12.698239  138.866533   0.796844
 0.006839    0.216668  143.331071
0.42251   12.698239  138.866533   0.796844
 0.006839    0.543335  170.781759
0.56335   12.698239  138.866533   0.796844
 0.006839    0.869981  210.107833

COMB      DB -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -13.342309 -106.935022   -0.779007
-0.006466   -0.403753   -77.015174
0.14084  -13.342309 -106.935022   -0.779007
-0.006466   -0.121005   -93.664985
0.28168  -13.342309 -106.935022   -0.779007
-0.006466   -0.223076  -110.862241
0.42251  -13.342309 -106.935022   -0.779007
-0.006466   -0.545397  -130.907568
0.56335  -13.342309 -106.935022   -0.779007
-0.006466   -0.879325  -171.444057

COMB      DL -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.964052  131.138252   1.217183
 0.006699    0.696151  152.342939
0.14084   11.964052  131.138252   1.217183
 0.006699    0.186205  142.981974
0.28168   11.964052  131.138252   1.217183
 0.006699    0.305760  152.944393
0.42251   11.964052  131.138252   1.217183
 0.006699    0.764687  177.009989
0.56335   11.964052  131.138252   1.217183
 0.006699    1.225607  214.154027

COMB      DL -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -12.238765 -103.381277   -1.099629
-0.006347   -0.630171   -88.933179
0.14084  -12.238765 -103.381277   -1.099629
-0.006347   -0.170134  -108.394542
0.28168  -12.238765 -103.381277   -1.099629
-0.006347   -0.337282  -128.586831
0.42251  -12.238765 -103.381277   -1.099629
-0.006347   -0.835191  -149.633393
0.56335  -12.238765 -103.381277   -1.099629
-0.006347   -1.344456  -184.726856

COMB      CAR -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   12.698239  138.866533   1.217183
 0.006839    0.696151  152.342939
0.14084   12.698239  138.866533   1.217183
 0.006839    0.186205  142.981974
0.28168   12.698239  138.866533   1.217183
 0.006839    0.305760  152.944393
0.42251   12.698239  138.866533   1.217183
 0.006839    0.764687  177.009989
0.56335   12.698239  138.866533   1.217183
 0.006839    1.225607  214.154027
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3613

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -13.342309 -106.935022   -1.099629
-0.006466   -0.630171   -88.933179
0.14084  -13.342309 -106.935022   -1.099629
-0.006466   -0.170134  -108.394542
0.28168  -13.342309 -106.935022   -1.099629
-0.006466   -0.337282  -128.586831
0.42251  -13.342309 -106.935022   -1.099629
-0.006466   -0.835191  -149.633393
0.56335  -13.342309 -106.935022   -1.099629
-0.006466   -1.344456  -184.726856

COMB      DESIGN -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   12.698239  138.866533   1.217183
 0.006839    0.696151  152.342939
0.14084   12.698239  138.866533   1.217183
 0.006839    0.186205  142.981974
0.28168   12.698239  138.866533   1.217183
 0.006839    0.305760  152.944393
0.42251   12.698239  138.866533   1.217183
 0.006839    0.764687  177.009989
0.56335   12.698239  138.866533   1.217183
 0.006839    1.225607  214.154027

COMB      DESIGN -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -13.342309 -106.935022   -1.099629
-0.006466   -0.630171   -88.933179
0.14084  -13.342309 -106.935022   -1.099629
-0.006466   -0.170134  -108.394542
0.28168  -13.342309 -106.935022   -1.099629
-0.006466   -0.337282  -128.586831
0.42251  -13.342309 -106.935022   -1.099629
-0.006466   -0.835191  -149.633393
0.56335  -13.342309 -106.935022   -1.099629
-0.006466   -1.344456  -184.726856

ELEM      344 ================== LENGTH
=  2.976966

COMB DB-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43669    0.501560   17.159769   0.297621
 1.36E-05    0.329289    2.185958
0.57751    0.501560   17.159769   0.297621
 1.36E-05    0.204515    2.149928
0.71834    0.501560   17.159769   0.297621
 1.36E-05    0.079755    3.242473
0.85917    0.501560   17.159769   0.297621
 1.36E-05    0.051499    6.118897
1.00000    0.501560   17.159769   0.297621
 1.36E-05    0.196146    9.473814

COMB DB-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43669   -4.340413   -8.617922   -0.344835
-0.000887   -0.382129  -23.674632
0.57751   -4.340413   -8.617922   -0.344835
-0.000887   -0.237560  -30.200810
0.71834   -4.340413   -8.617922   -0.344835
-0.000887   -0.092978  -36.756043
0.85917   -4.340413   -8.617922   -0.344835
-0.000887   -0.044960  -43.376057
1.00000   -4.340413   -8.617922   -0.344835
-0.000887   -0.169814  -50.097939

COMB DB-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43669    1.099674   42.747126   0.533630
 0.000323    0.591440   30.246014
0.57751    1.099674   42.747126   0.533630
 0.000323    0.367737   22.162773
```

0.71834 1.099674 42.747126 0.533630
0.000323 0.144669 15.777851
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3614

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85917 1.099674 42.747126 0.533630
0.000323 0.082363 13.320553
1.00000 1.099674 42.747126 0.533630
0.000323 0.313109 16.885498

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -8.669694 -14.512820 -0.551208
-0.001740 -0.611240 -30.019928
0.57751 -8.669694 -14.512820 -0.551208
-0.001740 -0.380151 -36.950026
0.71834 -8.669694 -14.512820 -0.551208
-0.001740 -0.149018 -46.550950
0.85917 -8.669694 -14.512820 -0.551208
-0.001740 -0.079709 -58.779258
1.00000 -8.669694 -14.512820 -0.551208
-0.001740 -0.303461 -71.710507

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 1.181606 96.558846 0.752220
5.73E-05 0.836142 176.667542
0.57751 1.181606 96.558846 0.752220
5.73E-05 0.520809 144.979471
0.71834 1.181606 96.558846 0.752220
5.73E-05 0.205563 114.410172
0.85917 1.181606 96.558846 0.752220
5.73E-05 -0.081948 86.805724
1.00000 1.181606 96.558846 0.752220
5.73E-05 0.314646 62.895661

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -12.033346 -11.308207 -0.554859
-0.001367 -0.616027 -27.739257
0.57751 -12.033346 -11.308207 -0.554859
-0.001367 -0.383543 -34.675076
0.71834 -12.033346 -11.308207 -0.554859
-0.001367 -0.150969 -43.014058
0.85917 -12.033346 -11.308207 -0.554859
-0.001367 -0.109891 -53.105022
1.00000 -12.033346 -11.308207 -0.554859
-0.001367 -0.425313 -63.612649

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 7.938835 86.061463 0.882749
0.004078 0.967951 164.781317
0.57751 7.938835 86.061463 0.882749
0.004078 0.598180 138.805614
0.71834 7.938835 86.061463 0.882749
0.004078 0.228449 121.873099
0.85917 7.938835 86.061463 0.882749
0.004078 0.110546 120.228313
1.00000 7.938835 86.061463 0.882749
0.004078 0.395654 133.420487

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -10.350055 -94.160470 -0.698845
-0.004661 -0.776295 -85.092240
0.57751 -10.350055 -94.160470 -0.698845
-0.004661 -0.483302 -60.162396
0.71834 -10.350055 -94.160470 -0.698845
-0.004661 -0.190281 -48.603355
0.85917 -10.350055 -94.160470 -0.698845
-0.004661 -0.143326 -45.894465
1.00000 -10.350055 -94.160470 -0.698845
-0.004661 -0.512909 -56.056979

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 0.599738 40.385110 0.293283
0.000201 0.327047 70.797371
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3615

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57751 0.599738 40.385110 0.293283
0.000201 0.204095 54.477144
0.71834 0.599738 40.385110 0.293283
0.000201 0.081196 38.535165
0.85917 0.599738 40.385110 0.293283
0.000201 0.027124 23.490764
1.00000 0.599738 40.385110 0.293283
0.000201 0.105170 14.218948

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -5.322534 -3.234052 -0.186086
-0.000636 -0.785880 -6.785502
0.57751 -5.322534 -3.234052 -0.186086
-0.000636 -0.128864 -5.705202
0.71834 -5.322534 -3.234052 -0.186086
-0.000636 -0.050828 -6.308088
0.85917 -5.322534 -3.234052 -0.186086
-0.000636 -0.041815 -9.219801
1.00000 -5.322534 -3.234052 -0.186086
-0.000636 -0.164797 -12.670156

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 4.748718 89.441731 0.617715
0.004940 0.670195 211.884968
0.57751 4.748718 89.441731 0.617715
0.004940 0.411653 177.583330
0.71834 4.748718 89.441731 0.617715
0.004940 0.169594 153.441015
0.85917 4.748718 89.441731 0.617715
0.004940 0.053057 143.952379
1.00000 4.748718 89.441731 0.617715
0.004940 0.164551 138.295779

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -8.157580 -61.263221 -0.291931
-0.005195 -0.325016 -25.587017
0.57751 -8.157580 -61.263221 -0.291931
-0.005195 -0.202616 -6.714312
0.71834 -8.157580 -61.263221 -0.291931
-0.005195 -0.080180 -6.105721
0.85917 -8.157580 -61.263221 -0.291931
-0.005195 -0.108205 -8.982999
1.00000 -8.157580 -61.263221 -0.291931
-0.005195 -0.366403 -12.537704

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 4.717670 95.654949 0.779624
0.004453 0.852264 189.589529
0.57751 4.717670 95.654949 0.779624
0.004453 0.525803 159.527469
0.71834 4.717670 95.654949 0.779624
0.004453 0.214237 139.056323
0.85917 4.717670 95.654949 0.779624
0.004453 0.086598 133.318456
1.00000 4.717670 95.654949 0.779624
0.004453 0.296074 130.603164

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -10.930770 -61.358448 -0.522974
-0.005373 -0.580975 -34.344694
0.57751 -10.930770 -61.358448 -0.522974
-0.005373 -0.361715 -24.098978
0.71834 -10.930770 -61.358448 -0.522974
-0.005373 -0.142410 -29.983550
0.85917 -10.930770 -61.358448 -0.522974
-0.005373 0.130835 -38.685935
1.00000 -10.930770 -61.358448 -0.522974
-0.005373 -0.455780 -47.916703
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3616

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 9.936871 84.968422 0.920159
0.003694 1.013845 163.281630
0.57751 9.936871 84.968422 0.920159
0.003694 0.628333 136.270523
0.71834 9.936871 84.968422 0.920159
0.003694 0.252613 116.209315
0.85917 9.936871 84.968422 0.920159
0.003694 0.114219 107.512162
1.00000 9.936871 84.968422 0.920159
0.003694 0.416786 117.241035

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -9.604596 -104.581426 -0.736979
-0.003809 -0.819108 -111.053955
0.57751 -9.604596 -104.581426 -0.736979
-0.003809 -0.510118 -78.845509
0.71834 -9.604596 -104.581426 -0.736979
-0.003809 -0.201093 -57.812389
0.85917 -9.604596 -104.581426 -0.736979
-0.003809 -0.145288 -38.749119
1.00000 -9.604596 -104.581426 -0.736979
-0.003809 -0.529650 -44.670871

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 9.691617 10.150710 0.487088
0.001094 0.541613 11.359983
0.57751 9.691617 10.150710 0.487088
0.001094 0.337406 7.532991
0.71834 9.691617 10.150710 0.487088
0.001094 0.133217 4.230764
0.85917 9.691617 10.150710 0.487088
0.001094 0.075134 3.436948
1.00000 9.691617 10.150710 0.487088
0.001094 0.291759 2.688749

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -0.798294 -76.532054 -0.516648
-7.29E-06 -0.574642 -140.427341
0.57751 -0.798294 -76.532054 -0.516648
-7.29E-06 -0.358042 -108.388973
0.71834 -0.798294 -76.532054 -0.516648
-7.29E-06 -0.141426 -76.376052
0.85917 -0.798294 -76.532054 -0.516648
-7.29E-06 -0.070973 -44.384480
1.00000 -0.798294 -76.532054 -0.516648
-7.29E-06 -0.275218 -12.395254

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 16.251989 35.884628 0.785232
0.007246 0.851227 90.380231
0.57751 16.251989 35.884628 0.785232
0.007246 0.522509 79.302505
0.71834 16.251989 35.884628 0.785232
0.007246 0.193769 80.225020
0.85917 16.251989 35.884628 0.785232
0.007246 0.117402 100.807202
1.00000 16.251989 35.884628 0.785232
0.007246 0.405175 122.196431

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -2.114254 -164.920371 -0.717997
-0.005769 -0.798863 -180.648290
0.57751 -2.114254 -164.920371 -0.717997
-0.005769 -0.497849 -119.836227
0.71834 -2.114254 -164.920371 -0.717997
-0.005769 -0.196775 -79.466778
0.85917 -2.114254 -164.920371 -0.717997
-0.005769 -0.138191 -41.012773
1.00000 -2.114254 -164.920371 -0.717997
-0.005769 -0.466456 -11.139231
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3617

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 14.034198 80.834062 0.961158
0.005221 1.054603 188.630329
0.57751 14.034198 80.834062 0.961158
0.005221 0.652007 157.667011
0.71834 14.034198 80.834062 0.961158
0.005221 0.263187 135.434362
0.85917 14.034198 80.834062 0.961158
0.005221 0.112633 126.164680
1.00000 14.034198 80.834062 0.961158
0.005221 0.403344 118.756700

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -6.708327 -135.158710 -0.714895
-0.004140 -0.795545 -162.920760
0.57751 -6.708327 -135.158710 -0.714895
-0.004140 -0.495825 -111.797619
0.71834 -6.708327 -135.158710 -0.714895
-0.004140 -0.196069 -74.759232
0.85917 -6.708327 -135.158710 -0.714895
-0.004140 -0.155482 -39.112716
1.00000 -6.708327 -135.158710 -0.714895
-0.004140 -0.557818 -12.318210

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 12.078014 83.727638 0.992103
0.004364 1.092068 164.937718
0.57751 12.078014 83.727638 0.992103
0.004364 0.676436 135.891792
0.71834 12.078014 83.727638 0.992103
0.004364 0.272197 115.489434
0.85917 12.078014 83.727638 0.992103
0.004364 0.123400 107.051193
1.00000 12.078014 83.727638 0.992103
0.004364 0.449259 102.628379

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -8.890597 -116.642625 -0.795029
-0.004012 -0.893986 -141.557398
0.57751 -8.890597 -116.642625 -0.795029
-0.004012 -0.550669 -102.694505
0.71834 -8.890597 -116.642625 -0.795029
-0.004012 -0.217314 -76.495757
0.85917 -8.890597 -116.642625 -0.795029
-0.004012 -0.156830 -52.730889
1.00000 -8.890597 -116.642625 -0.795029
-0.004012 -0.572147 -36.687919

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 0.663145 20.745452 0.573562
9.88E-06 0.635375 2.493840
0.57751 0.663145 20.745452 0.573562
9.88E-06 0.394803 2.610610
0.71834 0.663145 20.745452 0.573562
9.88E-06 0.154100 5.630097
0.85917 0.663145 20.745452 0.573562
9.88E-06 0.067402 10.128525
1.00000 0.663145 20.745452 0.573562
9.88E-06 0.257941 14.915024

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -4.342115 -12.019636 -0.454641
-0.000844 -0.504153 -29.953617
0.57751 -4.342115 -12.019636 -0.454641
-0.000844 -0.313344 -34.791183
0.71834 -4.342115 -12.019636 -0.454641
-0.000844 -0.122651 -42.107029
0.85917 -4.342115 -12.019636 -0.454641
-0.000844 -0.085098 -50.353365
1.00000 -4.342115 -12.019636 -0.454641
-0.000844 -0.325556 -58.706297
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3618

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 1.238999 47.912972 0.946969
0.000247 1.051544 32.188848
0.57751 1.238999 47.912972 0.946969
0.000247 0.654323 23.491069
0.71834 1.238999 47.912972 0.946969
0.000247 0.257687 18.845657
0.85917 1.238999 47.912972 0.946969
0.000247 0.116949 18.025158
1.00000 1.238999 47.912972 0.946969
0.000247 0.443712 22.779877

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -8.834863 -18.351186 -0.779902
-0.001552 -0.863755 -36.613241
0.57751 -8.834863 -18.351186 -0.779902
-0.001552 -0.536687 -42.337760
0.71834 -8.834863 -18.351186 -0.779902
-0.001552 -0.209496 -52.712561
0.85917 -8.834863 -18.351186 -0.779902
-0.001552 -0.155686 -65.686187
1.00000 -8.834863 -18.351186 -0.779902
-0.001552 -0.535091 -81.444657

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 1.413294 94.728619 1.178748
7.59E-05 1.311878 177.807781
0.57751 1.413294 94.728619 1.178748
7.59E-05 0.817628 148.609888
0.71834 1.413294 94.728619 1.178748
7.59E-05 0.323373 122.694185
0.85917 1.413294 94.728619 1.178748
7.59E-05 0.127999 99.775104
1.00000 1.413294 94.728619 1.178748
7.59E-05 0.494928 80.793861

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -11.616213 -16.248440 -0.874112
-0.001291 -0.968959 -33.861917
0.57751 -11.616213 -16.248440 -0.874112
-0.001291 -0.601907 -39.248277
0.71834 -11.616213 -16.248440 -0.874112
-0.001291 -0.235176 -48.100980
0.85917 -11.616213 -16.248440 -0.874112
-0.001291 -0.169363 -59.200977
1.00000 -11.616213 -16.248440 -0.874112
-0.001291 -0.663182 -72.109797

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 7.182572 86.314084 1.438708
0.003266 1.590610 170.996447
0.57751 7.182572 86.314084 1.438708
0.003266 0.988670 146.152371
0.71834 7.182572 86.314084 1.438708
0.003266 0.393955 131.575507
0.85917 7.182572 86.314084 1.438708
0.003266 0.171319 131.657093
1.00000 7.182572 86.314084 1.438708
0.003266 0.626628 144.591261

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -10.018500 -86.517402 -1.099016
-0.003838 -1.218484 -83.216418
0.57751 -10.018500 -86.517402 -1.099016
-0.003838 -0.757527 -59.317533
0.71834 -10.018500 -86.517402 -1.099016
-0.003838 -0.296635 -50.894246
0.85917 -10.018500 -86.517402 -1.099016
-0.003838 -0.220033 -51.597108
1.00000 -10.018500 -86.517402 -1.099016
-0.003838 -0.822184 -64.166760
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3619

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 0.681896 37.722676 0.402963
0.000196 0.450350 68.981785
0.57751 0.681896 37.722676 0.402963
0.000196 0.281377 53.664001
0.71834 0.681896 37.722676 0.402963
0.000196 0.112452 39.135721
0.85917 0.681896 37.722676 0.402963
0.000196 0.048297 25.957637
1.00000 0.681896 37.722676 0.402963
0.000196 0.182478 16.480443

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -5.308962 -3.907526 -0.320439
-0.000532 -0.354855 -6.566487
0.57751 -5.308962 -3.907526 -0.320439
-0.000532 -0.220412 -6.100728
0.71834 -5.308962 -3.907526 -0.320439
-0.000532 -0.086032 -6.783147
0.85917 -5.308962 -3.907526 -0.320439
-0.000532 -0.056286 -8.521040
1.00000 -5.308962 -3.907526 -0.320439
-0.000532 -0.225167 -12.020119

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 4.360998 82.851368 0.822550
0.004295 0.901772 215.013210
0.57751 4.360998 82.851368 0.822550
0.004295 0.559041 183.200925
0.71834 4.360998 82.851368 0.822550
0.004295 0.226854 161.157654
0.85917 4.360998 82.851368 0.822550
0.004295 0.097393 151.224655
1.00000 4.360998 82.851368 0.822550
0.004295 0.319175 145.027867

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -7.729267 -53.549751 -0.550975
-0.004515 -0.609648 -25.874011
0.57751 -7.729267 -53.549751 -0.550975
-0.004515 -0.376902 -6.790597
0.71834 -7.729267 -53.549751 -0.550975
-0.004515 -0.148489 -6.434636
0.85917 -7.729267 -53.549751 -0.550975
-0.004515 -0.135774 -8.411200
1.00000 -7.729267 -53.549751 -0.550975
-0.004515 -0.479522 -12.256521

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 4.328190 93.143080 1.167477
0.003872 1.286066 192.239854
0.57751 4.328190 93.143080 1.167477
0.003872 0.798421 164.576338
0.71834 4.328190 93.143080 1.167477
0.003872 0.320513 147.356097
0.85917 4.328190 93.143080 1.167477
0.003872 0.141805 142.570272
1.00000 4.328190 93.143080 1.167477
0.003872 0.492361 140.467523

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -10.601129 -56.800592 -0.856146
-0.004720 -0.947728 -37.388825
0.57751 -10.601129 -56.800592 -0.856146
-0.004720 -0.589109 -25.754062
0.71834 -10.601129 -56.800592 -0.856146
-0.004720 -0.230503 -32.284919
0.85917 -10.601129 -56.800592 -0.856146
-0.004720 -0.184649 -41.856518
1.00000 -10.601129 -56.800592 -0.856146
-0.004720 -0.672631 -52.716383
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3620

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 8.901817 84.670040 1.501448
0.003042 1.664223 165.690785
0.57751 8.901817 84.670040 1.501448
0.003042 1.035786 139.956624
0.71834 8.901817 84.670040 1.501448
0.003042 0.407350 122.117496
0.85917 8.901817 84.670040 1.501448
0.003042 0.182387 115.261153
1.00000 8.901817 84.670040 1.501448
0.003042 0.675697 127.525172

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -9.269342 -96.955003 -1.187448
-0.003168 -1.316978 -104.407976
0.57751 -9.269342 -96.955003 -1.187448
-0.003168 -0.819050 -73.692522
0.71834 -9.269342 -96.955003 -1.187448
-0.003168 -0.321013 -55.875697
0.85917 -9.269342 -96.955003 -1.187448
-0.003168 -0.225473 -42.416287
1.00000 -9.269342 -96.955003 -1.187448
-0.003168 -0.853864 -50.711436

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 8.688057 13.232722 0.889352
0.001014 0.991315 12.806841
0.57751 8.688057 13.232722 0.889352
0.001014 0.618402 7.681091
0.71834 8.688057 13.232722 0.889352
0.001014 0.245666 4.761977
0.85917 8.688057 13.232722 0.889352
0.001014 0.115360 3.862069
1.00000 8.688057 13.232722 0.889352
0.001014 0.452421 3.162267

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43669 -0.711774 -73.234077 -0.802087
-4.30E-06 -0.891278 -137.501130
0.57751 -0.711774 -73.234077 -0.802087
-4.30E-06 -0.555020 -107.070505
0.71834 -0.711774 -73.234077 -0.802087
-4.30E-06 -0.218100 -78.649695
0.85917 -0.711774 -73.234077 -0.802087
-4.30E-06 -0.122754 -51.454653
1.00000 -0.711774 -73.234077 -0.802087
-4.30E-06 -0.500162 -24.344101

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43669 14.982200 37.774738 1.363202
0.007171 1.495331 97.173181
0.57751 14.982200 37.774738 1.363202
0.007171 0.926793 85.283663
0.71834 14.982200 37.774738 1.363202
0.007171 0.373275 88.847891
0.85917 14.982200 37.774738 1.363202

```
 0.007171    0.187341  109.926166
 1.00000    14.982200   37.774738     1.363202
 0.007171    0.649573  132.296536

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43669   -1.847704 -157.473151   -1.131622
-0.005806   -1.255776 -176.928763
0.57751   -1.847704 -157.473151   -1.131622
-0.005806   -0.781838 -114.491058
0.71834   -1.847704 -157.473151   -1.131622
-0.005806   -0.307445  -79.303892
0.85917   -1.847704 -157.473151   -1.131622
-0.005806   -0.223837  -47.549081
1.00000   -1.847704 -157.473151   -1.131622
-0.005806   -0.793958  -18.805002
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3621

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43669   13.059591   75.412531    1.521344
 0.005483    1.679951  186.969475
0.57751   13.059591   75.412531    1.521344
 0.005483    1.044272  158.437747
0.71834   13.059591   75.412531    1.521344
 0.005483    0.419430  141.465324
0.85917   13.059591   75.412531    1.521344
 0.005483    0.190158  137.493497
1.00000   13.059591   75.412531    1.521344
 0.005483    0.684872  134.749882

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43669   -6.037181 -131.101586   -1.200088
-0.004383   -1.331583 -158.440099
0.57751   -6.037181 -131.101586   -1.200088
-0.004383   -0.828705 -106.169095
0.71834   -6.037181 -131.101586   -1.200088
-0.004383   -0.325670  -73.891568
0.85917   -6.037181 -131.101586   -1.200088
-0.004383   -0.236683  -44.331683
1.00000   -6.037181 -131.101586   -1.200088
-0.004383   -0.873632  -17.838450

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43669   11.292763   81.732017    1.605683
 0.004588    1.776070  164.050253
0.57751   11.292763   81.732017    1.605683
 0.004588    1.104656  136.659031
0.71834   11.292763   81.732017    1.605683
 0.004588    0.442336  121.149950
0.85917   11.292763   81.732017    1.605683
 0.004588    0.203386  118.072121
1.00000   11.292763   81.732017    1.605683
 0.004588    0.739639  118.081529

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43669   -8.532227 -114.880267   -1.296286
-0.004172   -1.437483 -139.497131
0.57751   -8.532227 -114.880267   -1.296286
-0.004172   -0.894228  -99.046681
0.71834   -8.532227 -114.880267   -1.296286
-0.004172   -0.350845  -77.031128
0.85917   -8.532227 -114.880267   -1.296286
-0.004172   -0.245594  -58.568326
1.00000   -8.532227 -114.880267   -1.296286
-0.004172   -0.917863  -43.613696

COMB       DB ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43669   16.251989   96.558846    0.992103
 0.007246    1.092068  211.884968
0.57751   16.251989   96.558846    0.992103
 0.007246    0.676436  177.583330
0.71834   16.251989   96.558846    0.992103
 0.007246    0.272197  153.441015
0.85917   16.251989   96.558846    0.992103
 0.007246    0.123400  140.953279
1.00000   16.251989   96.558846    0.992103
 0.007246    0.449259  138.295779

COMB       DB ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43669  -12.033346 -164.920371   -0.795029
-0.005769   -0.883986 -180.648290
0.57751  -12.033346 -164.920371   -0.795029
-0.005769   -0.550669 -119.836227
0.71834  -12.033346 -164.920371   -0.795029
-0.005769   -0.217314  -79.466778
0.85917  -12.033346 -164.920371   -0.795029
-0.005769   -0.156830  -58.779258
1.00000  -12.033346 -164.920371   -0.795029
-0.005769   -0.572147  -71.710507
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3622

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB       DL ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43669   14.982200   94.728619    1.605683
 0.007171    1.776070  215.013210
0.57751   14.982200   94.728619    1.605683
 0.007171    1.104656  183.200925
0.71834   14.982200   94.728619    1.605683
 0.007171    0.442336  161.157654
0.85917   14.982200   94.728619    1.605683
 0.007171    0.203386  151.224655
1.00000   14.982200   94.728619    1.605683
 0.007171    0.739639  145.027867

COMB       DL ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43669  -11.616213 -157.473151   -1.296286
-0.005806   -1.437483 -176.928763
0.57751  -11.616213 -157.473151   -1.296286
-0.005806   -0.894228 -114.491058
0.71834  -11.616213 -157.473151   -1.296286
-0.005806   -0.350845  -79.303892
0.85917  -11.616213 -157.473151   -1.296286
-0.005806   -0.245594  -65.686187
1.00000  -11.616213 -157.473151   -1.296286
-0.005806   -0.917863  -81.444657

COMB       CAR ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43669   16.251989   96.558846    1.605683
 0.007246    1.776070  215.013210
0.57751   16.251989   96.558846    1.605683
 0.007246    1.104656  183.200925
0.71834   16.251989   96.558846    1.605683
 0.007246    0.442336  161.157654
0.85917   16.251989   96.558846    1.605683
 0.007246    0.203386  151.224655
1.00000   16.251989   96.558846    1.605683
 0.007246    0.739639  145.027867

COMB       CAR ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43669  -12.033346 -164.920371   -1.296286
-0.005806   -1.437483 -180.648290
0.57751  -12.033346 -164.920371   -1.296286
-0.005806   -0.894228 -119.836227
0.71834  -12.033346 -164.920371   -1.296286
-0.005806   -0.350845  -79.466778
0.85917  -12.033346 -164.920371   -1.296286
-0.005806   -0.245594  -65.686187
1.00000  -12.033346 -164.920371   -1.296286
-0.005806   -0.917863  -81.444657

COMB      DESIGN ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43669   16.251989   96.558846    1.605683
 0.007246    1.776070  215.013210
0.57751   16.251989   96.558846    1.605683
 0.007246    1.104656  183.200925
0.71834   16.251989   96.558846    1.605683
 0.007246    0.442336  161.157654
0.85917   16.251989   96.558846    1.605683
 0.007246    0.203386  151.224655
1.00000   16.251989   96.558846    1.605683
 0.007246    0.739639  145.027867

COMB      DESIGN ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43669  -12.033346 -164.920371   -1.296286
-0.005806   -1.437483 -180.648290
0.57751  -12.033346 -164.920371   -1.296286
-0.005806   -0.894228 -119.836227
0.71834  -12.033346 -164.920371   -1.296286
-0.005806   -0.350845  -79.466778
0.85917  -12.033346 -164.920371   -1.296286
-0.005806   -0.245594  -65.686187
1.00000  -12.033346 -164.920371   -1.296286
-0.005806   -0.917863  -81.444657
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3623

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      345 ================== LENGTH
=     2.977963

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.483863   16.976177    0.282375
 6.90E-06    0.157372    9.485232
0.14086    0.483863   16.976177    0.282375
 6.90E-06    0.038860   12.890100
0.28173    0.483863   16.976177    0.282375
 6.90E-06    0.092916   16.357025
0.42259    0.483863   16.976177    0.282375
 6.90E-06    0.231596   19.854248
0.56346    0.483863   16.976177    0.282375
 6.90E-06    0.370263   23.365875

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -4.294691   -8.387391   -0.330560
-0.000552   -0.184404  -50.114597
0.14086   -4.294691   -8.387391   -0.330560
-0.000552   -0.045730  -56.936769
0.28173   -4.294691   -8.387391   -0.330560
-0.000552    0.079558  -63.844930
0.42259   -4.294691   -8.387391   -0.330560
-0.000552   -0.197994  -70.762466
0.56346   -4.294691   -8.387391   -0.330560
-0.000552   -0.316447  -77.700596

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.997714   43.783939    0.499301
 0.000187    0.277533   16.914221
0.14086    0.997714   43.783939    0.499301
 0.000187    0.068303   20.167037
0.28173    0.997714   43.783939    0.499301
 0.000187    0.148939   23.850076
0.42259    0.997714   43.783939    0.499301
 0.000187    0.371996   28.358988
0.56346    0.997714   43.783939    0.499301
 0.000187    0.595007   33.331833

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -8.672013  -12.261174   -0.531625
-0.001202   -0.297014  -71.741194
0.14086   -8.672013  -12.261174   -0.531625
-0.001202   -0.074392  -87.291100
0.28173   -8.672013  -12.261174   -0.531625
-0.001202   -0.142244 -103.142524
0.42259   -8.672013  -12.261174   -0.531625
-0.001202   -0.351018 -119.343777
0.56346   -8.672013  -12.261174   -0.531625
-0.001202   -0.560429 -136.518694

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.210435   95.127818    0.700922
 0.000223    0.387706   62.876421
0.14086    1.210435   95.127818    0.700922
 0.000223    0.094078   46.339629
0.28173    1.210435   95.127818    0.700922
 0.000223    0.150997   44.753943
0.42259    1.210435   95.127818    0.700922
 0.000223    0.376818   46.713637
0.56346    1.210435   95.127818    0.700922
 0.000223    0.603145   49.796810

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -11.861119  -11.033089   -0.539466
-0.001355   -0.302097  -63.630995
0.14086  -11.861119  -11.033089   -0.539466
-0.001355   -0.075706  -74.062977
0.28173  -11.861119  -11.033089   -0.539466
-0.001355   -0.201001  -88.865649
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3624

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.42259  -11.861119  -11.033089   -0.539466
-0.001355   -0.494865 -126.702885
0.56346  -11.861119  -11.033089   -0.539466
-0.001355   -0.788885 -166.141071

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    5.668093  119.630837    0.846205
 0.003992    0.484770  133.602351
0.14086    5.668093  119.630837    0.846205
 0.003992    0.130862  122.254898
0.28173    5.668093  119.630837    0.846205
 0.003992    0.190426  123.015151
0.42259    5.668093  119.630837    0.846205
 0.003992    0.476499  135.279339
0.56346    5.668093  119.630837    0.846205
 0.003992    0.762546  156.190877

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -12.032270   -57.105794   -0.681873
-0.004614   -0.381626   -56.062826
0.14086   -12.032270   -57.105794   -0.681873
-0.004614   -0.104124   -66.315161
0.28173   -12.032270   -57.105794   -0.681873
-0.004614   -0.238399   -80.546119
0.42259   -12.032270   -57.105794   -0.681873
-0.004614   -0.581397  -113.345455
0.56346   -12.032270   -57.105794   -0.681873
-0.004614   -0.935862  -154.976049

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.610386   39.783845    0.266901
 9.06E-06    0.146532   14.210999
0.14086    0.610386   39.783845    0.266901
 9.06E-06    0.034923   10.404098
0.28173    0.610386   39.783845    0.266901
 9.06E-06    0.050822    9.773848
0.42259    0.610386   39.783845    0.266901
 9.06E-06    0.127847    9.959602
0.56346    0.610386   39.783845    0.266901
 9.06E-06    0.204851   10.352104

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.258339   -3.059897   -0.183566
-0.000544   -0.103134   -12.674931
0.14086   -5.258339   -3.059897   -0.183566
-0.000544   -0.026150   -16.461877
0.28173   -5.258339   -3.059897   -0.183566
-0.000544   -0.077790   -31.794532
0.42259   -5.258339   -3.059897   -0.183566
-0.000544   -0.189623   -47.631083
0.56346   -5.258339   -3.059897   -0.183566
-0.000544   -0.301573   -63.950026

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.554538  135.655083    0.580296
 0.005084    0.339890  138.557218
0.14086    1.554538  135.655083    0.580296
 0.005084    0.097947   95.438350
0.28173    1.554538  135.655083    0.580296
 0.005084    0.080252   68.327461
0.42259    1.554538  135.655083    0.580296
 0.005084    0.202002   56.831466
0.56346    1.554538  135.655083    0.580296
 0.005084    0.323712   56.915197

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.530709   -9.984408   -0.290118
-0.005618   -0.163106  -12.533481
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3625

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.14086  -10.530709   -9.984408   -0.290118
-0.005618   -0.053206  -16.218025
0.28173  -10.530709   -9.984408   -0.290118
-0.005618   -0.165042  -25.259956
0.42259  -10.530709   -9.984408   -0.290118
-0.005618   -0.392573  -58.684873
0.56346  -10.530709   -9.984408   -0.290118
-0.005618   -0.634806  -104.125404

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.839163  137.241298    0.733877
 0.004594    0.424243  130.849113
0.14086    1.839163  137.241298    0.733877
 0.004594    0.117633   94.478570
0.28173    1.839163  137.241298    0.733877
 0.004594    0.142330   72.849287
0.42259    1.839163  137.241298    0.733877
 0.004594    0.356935   64.585911
0.56346    1.839163  137.241298    0.733877
 0.004594    0.571393   67.135737

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -13.035242  -14.891965   -0.511220
-0.005512   -0.286418   -47.926686
0.14086  -13.035242  -14.891965   -0.511220
-0.005512   -0.082625   -57.196586
0.28173  -13.035242  -14.891965   -0.511220
-0.005512   -0.207779   -71.726590
0.42259  -13.035242  -14.891965   -0.511220
-0.005512   -0.500820  -108.065936
0.56346  -13.035242  -14.891965   -0.511220
-0.005512   -0.808048  -155.219686

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.132462  112.099000    0.876387
 0.003633    0.498679  117.368549
0.14086    8.132462  112.099000    0.876387
 0.003633    0.131877   116.437185
0.28173    8.132462  112.099000    0.876387
 0.003633    0.201348  127.984838
0.42259    8.132462  112.099000    0.876387
 0.003633    0.504252  149.597146
0.56346    8.132462  112.099000    0.876387
 0.003633    0.807104  178.280417

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.949245  -74.858482   -0.721945
-0.003833   -0.404293   -44.669657
0.14086  -10.949245  -74.858482   -0.721945
-0.003833   -0.108386   -54.425766
0.28173  -10.949245  -74.858482   -0.721945
-0.003833   -0.247405   -68.346397
0.42259  -10.949245  -74.858482   -0.721945
-0.003833   -0.605295  -101.005241
0.56346  -10.949245  -74.858482   -0.721945
-0.003833   -0.972521  -141.089981

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.786782   10.334659    0.479023
 0.001098    0.268344    2.687207
0.14086    9.786782   10.334659    0.479023
 0.001098    0.067369   21.691096
0.28173    9.786782   10.334659    0.479023
 0.001098    0.141823   53.764324
0.42259    9.786782   10.334659    0.479023
 0.001098    0.354897   86.070898
0.56346    9.786782   10.334659    0.479023
 0.001098    0.567958  118.467776
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3626

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -0.789262  -77.380079   -0.507918
-0.000142   -0.284309  -12.433821
0.14086   -0.789262  -77.380079   -0.507918
-0.000142   -0.071208  -12.389343
0.28173   -0.789262  -77.380079   -0.507918
-0.000142   -0.133578  -15.870512
0.42259   -0.789262  -77.380079   -0.507918
-0.000142   -0.334504  -19.592527
0.56346   -0.789262  -77.380079   -0.507918
-0.000142   -0.535448  -23.740472

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   12.454743   93.637059    0.773743
 0.007160    0.456383  122.547036
0.14086   12.454743   93.637059    0.773743
 0.007160    0.133028  125.764150
0.28173   12.454743   93.637059    0.773743
 0.007160    0.197377  135.788153
0.42259   12.454743   93.637059    0.773743
 0.007160    0.493683  162.320089
0.56346   12.454743   93.637059    0.773743
 0.007160    0.789939  202.216766

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.125044 -103.657063   -0.706234
-0.005967   -0.395077   -11.114887
0.14086   -5.125044 -103.657063   -0.706234
-0.005967   -0.113118   -15.927310
0.28173   -5.125044 -103.657063   -0.706234
-0.005967   -0.214067   -20.842574
0.42259   -5.125044 -103.657063   -0.706234
-0.005967   -0.518851   -28.520141
0.56346   -5.125044 -103.657063   -0.706234
-0.005967   -0.842588   -53.137356

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.473070  119.720538    0.926497
 0.005305    0.531974  118.962609
0.14086   11.473070  119.720538    0.926497
 0.005305    0.144461  116.526940
0.28173   11.473070  119.720538    0.926497
 0.005305    0.196541  129.175008
0.42259   11.473070  119.720538    0.926497
 0.005305    0.492795  155.107408
0.56346   11.473070  119.720538    0.926497
 0.005305    0.789023  190.771171

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -8.684852  -93.392300   -0.706148
-0.004596   -0.395871   -12.293593
0.14086   -8.684852  -93.392300   -0.706148
-0.004596   -0.109457   -16.147148
0.28173   -8.684852  -93.392300   -0.706148
-0.004596   -0.260418   -25.560742
0.42259   -8.684852  -93.392300   -0.706148
-0.004596   -0.635373   -56.696066
0.56346   -8.684852  -93.392300   -0.706148
-0.004596   -1.023457   -97.558956

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.967850  115.591734    0.946412
 0.004395    0.539957  102.806833
0.14086    9.967850  115.591734    0.946412
 0.004395    0.143964  102.534878
0.28173    9.967850  115.591734    0.946412
 0.004395    0.217676  114.866470
0.42259    9.967850  115.591734    0.946412
 0.004395    0.515323  138.237149
0.56346    9.967850  115.591734    0.946412
 0.004395    0.872938  169.689702
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3627

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.489886  -81.997143   -0.780968
-0.004190   -0.437507   -36.680749
0.14086  -10.489886  -81.997143   -0.780968
-0.004190   -0.117983   -46.105749
0.28173  -10.489886  -81.997143   -0.780968
-0.004190   -0.267243   -59.675302
0.42259  -10.489886  -81.997143   -0.780968
-0.004190   -0.652255   -91.665362
0.56346  -10.489886  -81.997143   -0.780968
-0.004190   -1.048785  -132.134741

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.635035   20.500749    0.530539
 4.03E-06    0.292627   14.934193
0.14086    0.635035   20.500749    0.530539
 4.03E-06    0.070074   19.771320
0.28173    0.635035   20.500749    0.530539
 4.03E-06    0.123268   24.649841
0.42259    0.635035   20.500749    0.530539
 4.03E-06    0.310204   29.553440
0.56346    0.635035   20.500749    0.530539
 4.03E-06    0.496628   34.467476

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -4.294727  -11.744173   -0.444312
-0.000528   -0.248307   -58.726810
0.14086   -4.294727  -11.744173   -0.444312
-0.000528   -0.061865   -67.072854
0.28173   -4.294727  -11.744173   -0.444312
-0.000528   -0.151254   -75.492475
0.42259   -4.294727  -11.744173   -0.444312
-0.000528   -0.372334   -83.962148
0.56346   -4.294727  -11.744173   -0.444312
-0.000528   -0.596599   -92.454152

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.146583   48.294526    0.898108
 0.000114    0.498342   22.811817
0.14086    1.146583   48.294526    0.898108
 0.000114    0.121849   28.302031
0.28173    1.146583   48.294526    0.898108
 0.000114    0.209475   34.365717
0.42259    1.146583   48.294526    0.898108
```

0.000114 0.523498 40.841756
0.56346 1.146583 48.294526 0.898108
0.000114 0.837256 47.674468

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-8.824254	-16.788463	-0.747728
-0.001066	-0.417264	-81.481360	
0.14086	-8.824254	-16.788463	-0.747728
-0.001066	-0.103808	-98.898852	
0.28173	-8.824254	-16.788463	-0.747728
-0.001066	-0.254206	-116.836271	
0.42259	-8.824254	-16.788463	-0.747728
-0.001066	-0.630583	-135.748470	
0.56346	-8.824254	-16.788463	-0.747728
-0.001066	-1.007400	-155.349616	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	1.401198	93.508699	1.128963
0.000219	0.626122	80.792903	
0.14086	1.401198	93.508699	1.128963
0.000219	0.152749	66.093246	
0.28173	1.401198	93.508699	1.128963
0.000219	0.235221	58.609387	
0.42259	1.401198	93.508699	1.128963
0.000219	0.589440	59.617378	
0.56346	1.401198	93.508699	1.128963
0.000219	0.943659	63.384725	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3628
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-11.491367	-15.872977	-0.843764
-0.001222	-0.469864	-72.133298	
0.14086	-11.491367	-15.872977	-0.843764
-0.001222	-0.115633	-85.174750	
0.28173	-11.491367	-15.872977	-0.843764
-0.001222	-0.319895	-102.314004	
0.42259	-11.491367	-15.872977	-0.843764
-0.001222	-0.793371	-136.382776	
0.56346	-11.491367	-15.872977	-0.843764
-0.001222	-1.266968	-173.056282	

COMB DL-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	5.475715	111.588422	1.395607
0.003150	0.788550	144.595228	
0.14086	5.475715	111.588422	1.395607
0.003150	0.603821	138.017909	
0.28173	5.475715	111.588422	1.395607
0.003150	0.296923	137.438448	
0.42259	5.475715	111.588422	1.395607
0.003150	0.745078	150.149918	
0.56346	5.475715	111.588422	1.395607
0.003150	1.193194	170.486554	

COMB DL-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-11.386472	-58.993213	-1.067992
-0.003710	-0.601453	-64.172761	
0.14086	-11.386472	-58.993213	-1.067992
-0.003710	-0.158778	-77.097480	
0.28173	-11.386472	-58.993213	-1.067992
-0.003710	-0.392376	-93.657037	
0.42259	-11.386472	-58.993213	-1.067992
-0.003710	-0.969738	-124.006837	
0.56346	-11.386472	-58.993213	-1.067992
-0.003710	-1.553576	-164.635993	

COMB DL-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.686428	37.283913	0.398647
5.07E-06	0.222734	16.477656	
0.14086	0.686428	37.283913	0.398647
5.07E-06	0.055680	10.719215	
0.28173	0.686428	37.283913	0.398647
5.07E-06	0.084882	10.320345	
0.42259	0.686428	37.283913	0.398647
5.07E-06	0.222744	10.851661	
0.56346	0.686428	37.283913	0.398647
5.07E-06	0.336696	11.708169	

COMB DL-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-5.280705	-3.679783	-0.300095
-0.000470	-0.166781	-12.025093	
0.14086	-5.280705	-3.679783	-0.300095
-0.000470	-0.041010	-17.853179	
0.28173	-5.280705	-3.679783	-0.300095
-0.000470	-0.111812	-31.008707	
0.42259	-5.280705	-3.679783	-0.300095
-0.000470	-0.278979	-45.631773	
0.56346	-5.280705	-3.679783	-0.300095
-0.000470	-0.446233	-60.662451	

COMB DL-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	1.716934	121.701935	0.809993
0.004396	0.470569	145.039862	
0.14086	1.716934	121.701935	0.809993
0.004396	0.132052	105.895425	
0.28173	1.716934	121.701935	0.809993
0.004396	0.147632	74.753841	
0.42259	1.716934	121.701935	0.809993
0.004396	0.369860	62.440722	
0.56346	1.716934	121.701935	0.809993
0.004396	0.592603	61.108592	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3629
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-9.885878	-11.003340	-0.531456
-0.004811	-0.304719	-12.250545	
0.14086	-9.885878	-11.003340	-0.531456
-0.004811	-0.090453	-16.484226	
0.28173	-9.885878	-11.003340	-0.531456
-0.004811	-0.225847	-26.519353	
0.42259	-9.885878	-11.003340	-0.531456
-0.004811	-0.553469	-54.001589	
0.56346	-9.885878	-11.003340	-0.531456
-0.004811	-0.890726	-96.481851	

COMB DL-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	1.940247	128.049324	1.133020
0.003978	0.647462	140.493799	
0.14086	1.940247	128.049324	1.133020
0.003978	0.173527	108.510818	
0.28173	1.940247	128.049324	1.133020
0.003978	0.229674	83.825512	
0.42259	1.940247	128.049324	1.133020
0.003978	0.574937	76.181439	
0.56346	1.940247	128.049324	1.133020
0.003978	0.920216	78.444242	

COMB DL-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-12.534177	-18.085698	-0.823799
-0.004763	-0.466924	-52.727997	
0.14086	-12.534177	-18.085698	-0.823799
-0.004763	-0.129162	-63.672646	
0.28173	-12.534177	-18.085698	-0.823799
-0.004763	-0.317528	-80.605657	
0.42259	-12.534177	-18.085698	-0.823799
-0.004763	-0.781662	-112.899316	
0.56346	-12.534177	-18.085698	-0.823799
-0.004763	-1.254688	-158.750637	

COMB DL-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	7.530771	105.596362	1.468209
0.002944	0.828244	127.506798	
0.14086	7.530771	105.596362	1.468209
0.002944	0.213373	129.513336	
0.28173	7.530771	105.596362	1.468209
0.002944	0.320239	137.749855	
0.42259	7.530771	105.596362	1.468209
0.002944	0.802635	158.373304	
0.56346	7.530771	105.596362	1.468209
0.002944	1.285369	185.641908	

COMB DL-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-10.415575	-74.367424	-1.149895
-0.003120	-0.645872	-50.706361	
0.14086	-10.415575	-74.367424	-1.149895
-0.003120	-0.167627	-62.808264	
0.28173	-10.415575	-74.367424	-1.149895
-0.003120	-0.412000	-79.465320	
0.42259	-10.415575	-74.367424	-1.149895
-0.003120	-1.021147	-109.558754	
0.56346	-10.415575	-74.367424	-1.149895
-0.003120	-1.635724	-148.483955	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	8.758563	13.452444	0.886533
0.001022	0.495913	3.159979	
0.14086	8.758563	13.452444	0.886533
0.001022	0.123914	20.482174	
0.28173	8.758563	13.452444	0.886533
0.001022	0.217701	50.539945	
0.42259	8.758563	13.452444	0.886533
0.001022	0.546507	81.021617	
0.56346	8.758563	13.452444	0.886533
0.001022	0.874834	111.753559	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3630
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.717726	-73.971779	-0.782363
-0.000128	-0.436696	-24.367525	
0.14086	-0.717726	-73.971779	-0.782363
-0.000128	-0.107543	-19.377145	
0.28173	-0.717726	-73.971779	-0.782363
-0.000128	-0.247926	-23.802270	
0.42259	-0.717726	-73.971779	-0.782363
-0.000128	-0.619724	-28.813665	
0.56346	-0.717726	-73.971779	-0.782363
-0.000128	-0.991633	-34.239549	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	11.300435	94.382400	1.352835
0.007060	0.782933	132.335495	
0.14086	11.300435	94.382400	1.352835
0.007060	0.216876	133.666337	
0.28173	11.300435	94.382400	1.352835
0.007060	0.307665	141.204631	
0.42259	11.300435	94.382400	1.352835
0.007060	0.773000	163.943638	
0.56346	11.300435	94.382400	1.352835
0.007060	1.237877	199.546715	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-5.010392	-98.275868	-1.109650
-0.005929	-0.632753	-18.795845	
0.14086	-5.010392	-98.275868	-1.109650
-0.005929	-0.178891	-22.970644	
0.28173	-5.010392	-98.275868	-1.109650
-0.005929	-0.375791	-29.643073	
0.42259	-5.010392	-98.275868	-1.109650
-0.005929	-0.926008	-39.484733	
0.56346	-5.010392	-98.275868	-1.109650
-0.005929	-1.489857	-69.298146	

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	10.431213	115.670280	1.508603
0.005424	0.862039	134.759554	
0.14086	10.431213	115.670280	1.508603
0.005424	0.230326	128.501952	
0.28173	10.431213	115.670280	1.508603
0.005424	0.325067	131.777289	
0.42259	10.431213	115.670280	1.508603
0.005424	0.816208	152.854192	
0.56346	10.431213	115.670280	1.508603
0.005424	1.307263	184.577314	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-8.268913	-88.456481	-1.170944
-0.004680	-0.662323	-17.828272	
0.14086	-8.268913	-88.456481	-1.170944
-0.004680	-0.179281	-21.727151	
0.28173	-8.268913	-88.456481	-1.170944
-0.004680	-0.421067	-33.603034	
0.42259	-8.268913	-88.456481	-1.170944
-0.004680	-1.041390	-59.422688	
0.56346	-8.268913	-88.456481	-1.170944
-0.004680	-1.671676	-99.875207	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	9.115668	114.872554	1.581366
0.004505	0.898634	118.100637	
0.14086	9.115668	114.872554	1.581366
0.004505	0.236440	115.387602	
0.28173	9.115668	114.872554	1.581366
0.004505	0.349676	120.498929	
0.42259	9.115668	114.872554	1.581366
0.004505	0.875481	140.405324	
0.56346	9.115668	114.872554	1.581366
0.004505	1.401366	169.175000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3631
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-10.367307	-79.354483	-1.253906
-0.004239	-0.706423	-43.620524	
0.14086	-10.367307	-79.354483	-1.253906
-0.004239	-0.187185	-54.081297	
0.28173	-10.367307	-79.354483	-1.253906
-0.004239	-0.442256	-70.997111	
0.42259	-10.367307	-79.354483	-1.253906
-0.004239	-1.094932	-99.892795	
0.56346	-10.367307	-79.354483	-1.253906
-0.004239	-1.756154	-141.122591	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	12.454743	137.241298	0.946412
0.007160	0.539957	138.557218	
0.14086	12.454743	137.241298	0.946412
0.007160	0.144461	125.764150	
0.28173	12.454743	137.241298	0.946412
0.007160	0.217676	135.788153	
0.42259	12.454743	137.241298	0.946412
0.007160	0.545323	162.320089	
0.56346	12.454743	137.241298	0.946412
0.007160	0.872938	202.216766	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-13.035242	-103.657063	-0.780968
-0.005967	-0.437507	-71.741194	
0.14086	-13.035242	-103.657063	-0.780968
-0.005967	-0.117983	-87.295100	
0.28173	-13.035242	-103.657063	-0.780968
-0.005967	-0.267243	-103.142524	
0.42259	-13.035242	-103.657063	-0.780968
-0.005967	-0.652255	-126.702885	
0.56346	-13.035242	-103.657063	-0.780968
-0.005967	-1.048785	-166.141071	

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	11.300435	128.049324	1.581366
0.007060	0.898634	145.039862	
0.14086	11.300435	128.049324	1.581366
0.007060	0.236440	138.017909	
0.28173	11.300435	128.049324	1.581366
0.007060	0.349676	141.204631	
0.42259	11.300435	128.049324	1.581366
0.007060	0.875481	163.943638	
0.56346	11.300435	128.049324	1.581366
0.007060	1.401366	199.546715	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-12.534177	-98.275868	-1.253906
-0.005929	-0.706423	-81.481360	
0.14086	-12.534177	-98.275868	-1.253906
-0.005929	-0.187185	-98.898852	
0.28173	-12.534177	-98.275868	-1.253906
-0.005929	-0.442256	-116.836271	
0.42259	-12.534177	-98.275868	-1.253906
-0.005929	-1.094932	-136.382776	
0.56346	-12.534177	-98.275868	-1.253906
-0.005929	-1.756154	-173.056282	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	12.454743	137.241298	1.581366
0.007160	0.898634	145.039862	
0.14086	12.454743	137.241298	1.581366
0.007160	0.236440	138.017909	
0.28173	12.454743	137.241298	1.581366
0.007160	0.349676	141.204631	
0.42259	12.454743	137.241298	1.581366
0.007160	0.875481	163.943638	
0.56346	12.454743	137.241298	1.581366
0.007160	1.401366	202.216766	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3632
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-13.035242	-103.657063	-1.253906
-0.005967	-0.706423	-81.481360	
0.14086	-13.035242	-103.657063	-1.253906
-0.005967	-0.187185	-98.898852	
0.28173	-13.035242	-103.657063	-1.253906
-0.005967	-0.442256	-116.836271	
0.42259	-13.035242	-103.657063	-1.253906
-0.005967	-1.094932	-136.382776	
0.56346	-13.035242	-103.657063	-1.253906
-0.005967	-1.756154	-173.056282	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	12.454743	137.241298	1.581366
0.007160	0.898634	145.039862	
0.14086	12.454743	137.241298	1.581366
0.007160	0.236440	138.017909	
0.28173	12.454743	137.241298	1.581366
0.007160	0.349676	141.204631	
0.42259	12.454743	137.241298	1.581366
0.007160	0.875481	163.943638	
0.56346	12.454743	137.241298	1.581366
0.007160	1.401366	202.216766	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-13.035242	-103.657063	-1.253906
-0.005967	-0.706423	-81.481360	
0.14086	-13.035242	-103.657063	-1.253906
-0.005967	-0.187185	-98.898852	
0.28173	-13.035242	-103.657063	-1.253906
-0.005967	-0.442256	-116.836271	
0.42259	-13.035242	-103.657063	-1.253906
-0.005967	-1.094932	-136.382776	
0.56346	-13.035242	-103.657063	-1.253906
-0.005967	-1.756154	-173.056282	

ELEM 346 ========== LENGTH = 2.977840

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	1.565373	10.291170	0.371692
1.07E-05	0.413669	2.349872	
0.57742	1.565373	10.291170	0.371692
1.07E-05	0.257765	1.934915	
0.71828	1.565373	10.291170	0.371692
1.07E-05	0.101906	3.553327	
0.85914	1.565373	10.291170	0.371692
1.07E-05	0.050329	7.022110	
1.00000	1.565373	10.291170	0.371692
1.07E-05	0.191650	11.969945	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-2.233537	-13.344654	-0.336728
-0.001107	-0.373326	-24.902807	
0.57742	-2.233537	-13.344654	-0.336728
-0.001107	-0.232081	-28.404598	
0.71828	-2.233537	-13.344654	-0.336728
-0.001107	-0.090825	-32.029330	
0.85914	-2.233537	-13.344654	-0.336728
-0.001107	-0.054032	-35.748419	
1.00000	-2.233537	-13.344654	-0.336728
-0.001107	-0.209972	-39.647855	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	2.365333	29.958871	0.686540
0.000221	0.764333	23.794549	
0.57742	2.365333	29.958871	0.686540
0.000221	0.476510	16.875948	
0.71828	2.365333	29.958871	0.686540
0.000221	0.189101	12.290602	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3633
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST T	P M2	V2 M3	V3
0.85914	2.365333	29.958871	0.686540
0.000221	0.080292	12.934547	
1.00000	2.365333	29.958871	0.686540
0.000221	0.305389	19.730774	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-6.488621	-23.340542	-0.537358
-0.002055	-0.596718	-38.752678	
0.57742	-6.488621	-23.340542	-0.537358
-0.002055	-0.370785	-40.594130	
0.71828	-6.488621	-23.340542	-0.537358
-0.002055	-0.145363	-45.972446	
0.85914	-6.488621	-23.340542	-0.537358
-0.002055	-0.099590	-53.134745	
1.00000	-6.488621	-23.340542	-0.537358
-0.002055	-0.387578	-61.218254	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	2.226768	81.066246	0.960654
6.57E-06	1.071213	155.981756	
0.57742	2.226768	81.066246	0.960654
6.57E-06	0.668261	127.206976	
0.71828	2.226768	81.066246	0.960654
6.57E-06	0.265434	99.970452	
0.85914	2.226768	81.066246	0.960654
6.57E-06	0.087147	76.431517	
1.00000	2.226768	81.066246	0.960654
6.57E-06	0.332306	57.870682	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-9.847301	-22.447707	-0.584266
-0.001625	-0.647855	-41.181168	
0.57742	-9.847301	-22.447707	-0.584266
-0.001625	-0.402654	-42.159747	
0.71828	-9.847301	-22.447707	-0.584266
-0.001625	-0.157584	-45.127156	
0.85914	-9.847301	-22.447707	-0.584266
-0.001625	-0.137729	-49.239555	
1.00000	-9.847301	-22.447707	-0.584266
-0.001625	-0.540613	-53.571812	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	8.483283	75.686420	1.098384
0.004125	1.212521	150.565192	
0.57742	8.483283	75.686420	1.098384
0.004125	0.754486	125.027964	
0.71828	8.483283	75.686420	1.098384
0.004125	0.303237	108.125244	
0.85914	8.483283	75.686420	1.098384
0.004125	0.114448	108.320938	
1.00000	8.483283	75.686420	1.098384
0.004125	0.412577	123.962114	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-8.771908	-99.266338	-0.727122
-0.004773	-0.807296	-94.483407	
0.57742	-8.771908	-99.266338	-0.727122
-0.004773	-0.502197	-75.853234	
0.71828	-8.771908	-99.266338	-0.727122
-0.004773	-0.197194	-49.825001	
0.85914	-8.771908	-99.266338	-0.727122
-0.004773	-0.170774	-42.460419	
1.00000	-8.771908	-99.266338	-0.727122
-0.004773	-0.630535	-48.498721	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	0.619027	33.412555	0.377838
9.09E-05	0.421800	57.037996	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3634
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST T	P M2	V2 M3	V3
0.57742	0.619027	33.412555	0.377838
9.09E-05	0.263317	43.696622	
0.71828	0.619027	33.412555	0.377838
9.09E-05	0.104865	30.703664	
0.85914	0.619027	33.412555	0.377838
9.09E-05	0.026193	19.113887	
1.00000	0.619027	33.412555	0.377838
9.09E-05	0.101635	12.963919	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-5.375850	-8.031065	-0.179842
-0.000704	-0.200082	-15.666833	
0.57742	-5.375850	-8.031065	-0.179842
-0.000704	-0.124618	-12.591071	
0.71828	-5.375850	-8.031065	-0.179842
-0.000704	-0.049197	-11.954426	
0.85914	-5.375850	-8.031065	-0.179842
-0.000704	-0.053779	-12.755011	
1.00000	-5.375850	-8.031065	-0.179842
-0.000704	-0.212269	-13.927824	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	4.740122	80.659191	0.773743
0.004879	0.844535	187.970757	
0.57742	4.740122	80.659191	0.773743
0.004879	0.523669	156.290942	
0.71828	4.740122	80.659191	0.773743
0.004879	0.211886	134.439407	
0.85914	4.740122	80.659191	0.773743

```
 0.004879     0.058970   128.560676
 1.00000      4.740122    80.659191     0.773743
 0.004879     0.190005   126.353473

COMB DB-G2-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -8.076411   -67.358433   -0.335042
-0.005183    -0.371980   -40.268565
 0.57742   -8.076411   -67.358433   -0.335042
-0.005183    -0.263130   -17.441451
 0.71828   -8.076411   -67.358433   -0.335042
-0.005183    -0.090785   -13.131833
 0.85914   -8.076411   -67.358433   -0.335042
-0.005183    -0.130292   -12.954658
 1.00000   -8.076411   -67.358433   -0.335042
-0.005183    -0.453690   -13.510261

COMB DB-G2-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    5.339105    82.344365    0.994964
 0.004409    1.092733   168.860049
 0.57742    5.339105    82.344365    0.994964
 0.004409    0.678729   140.705953
 0.71828    5.339105    82.344365    0.994964
 0.004409    0.272946   121.378183
 0.85914    5.339105    82.344365    0.994964
 0.004409    0.090918   119.282796
 1.00000    5.339105    82.344365    0.994964
 0.004409    0.314987   121.313269

COMB DB-G2-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -9.758231   -70.752472   -0.554643
-0.005513    -0.615469   -51.544482
 0.57742   -9.758231   -70.752472   -0.554643
-0.005513    -0.382698   -35.003478
 0.71828   -9.758231   -70.752472   -0.554643
-0.005513    -0.150045   -34.809449
 0.85914   -9.758231   -70.752472   -0.554643
-0.005513    -0.160328   -38.146938
 1.00000   -9.758231   -70.752472   -0.554643
-0.005513    -0.576668   -42.218328
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3635

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    9.653093    78.548599    1.107999
 0.003814    1.227407   152.462589
 0.57742    9.653093    78.548599    1.107999
 0.003814    0.764841   125.284646
 0.71828    9.653093    78.548599    1.107999
 0.003814    0.307884   104.365622
 0.85914    9.653093    78.548599    1.107999
 0.003814    0.118726    96.772887
 1.00000    9.653093    78.548599    1.107999
 0.003814    0.435275   107.034849

COMB DB-G2-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -8.981220   -105.260275   -0.768009
-0.003843    -0.853171   -115.762412
 0.57742   -8.981220   -105.260275   -0.768009
-0.003843    -0.530886   -81.730443
 0.71828   -8.981220   -105.260275   -0.768009
-0.003843    -0.208748   -58.707047
 0.85914   -8.981220   -105.260275   -0.768009
-0.003843    -0.169529   -38.151503
 1.00000   -8.981220   -105.260275   -0.768009
-0.003843    -0.631883   -41.234400

COMB DB-G3-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    8.096974    18.807022    0.488931
 0.001369    0.543955    23.368137
 0.57742    8.096974    18.807022    0.488931
 0.001369    0.338873    15.771658
 0.71828    8.096974    18.807022    0.488931
 0.001369    0.133799     8.541931
 0.85914    8.096974    18.807022    0.488931
 0.001369    0.075810     3.144068
 1.00000    8.096974    18.807022    0.488931
 0.001369    0.294535     2.386123

COMB DB-G3-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -1.485916   -63.517539   -0.521299
-7.35E-06    -0.580121   -119.724406
 0.57742   -1.485916   -63.517539   -0.521299
-7.35E-06    -0.361457    -93.108743
 0.71828   -1.485916   -63.517539   -0.521299
-7.35E-06    -0.142777    -66.526341
 0.85914   -1.485916   -63.517539   -0.521299
-7.35E-06    -0.071242    -39.959566
 1.00000   -1.485916   -63.517539   -0.521299
-7.35E-06    -0.276393    -13.516545

COMB DB-G3-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   14.867413    44.843544    0.836027
 0.007573    0.907819    99.279344
 0.57742   14.867413    44.843544    0.836027
 0.007573    0.561630    83.058078
 0.71828   14.867413    44.843544    0.836027
 0.007573    0.226400    78.964713
 0.85914   14.867413    44.843544    0.836027
 0.007573    0.117570    94.612759
 1.00000   14.867413    44.843544    0.836027
 0.007573    0.412681   114.920737

COMB DB-G3-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -2.856142   -149.955613   -0.730794
-0.005719    -0.813471   -162.860059
 0.57742   -2.856142   -149.955613   -0.730794
-0.005719    -0.606935   -106.405793
 0.71828   -2.856142   -149.955613   -0.730794
-0.005719    -0.200346    -69.966274
 0.85914   -2.856142   -149.955613   -0.730794
-0.005719    -0.145424    -37.237520
 1.00000   -2.856142   -149.955613   -0.730794
-0.005719    -0.494901     14.216544
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3636

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   12.419123    83.447897    1.077203
 0.005493    1.184582   181.556573
 0.57742   12.419123    83.447897    1.077203
 0.005493    0.735820   148.542098
 0.71828   12.419123    83.447897    1.077203
 0.005493    0.294635   123.992335
 0.85914   12.419123    83.447897    1.077203
 0.005493    0.118883   113.465586
 1.00000   12.419123    83.447897    1.077203
 0.005493    0.429592   107.803153

COMB DB-G3-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -7.294191   -126.551295   -0.759359
-0.004101    -0.844348   -154.072062
 0.57742   -7.294191   -126.551295   -0.759359
-0.004101    -0.525705   -105.421814
 0.71828   -7.294191   -126.551295   -0.759359
-0.004101    -0.207185    -70.597427
 0.85914   -7.294191   -126.551295   -0.759359
-0.004101    -0.171871    -38.311298
 1.00000   -7.294191   -126.551295   -0.759359
-0.004101    -0.622804    -15.688013

COMB DB-G3-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   11.044438    81.131130    1.152083
 0.004553    1.271024   156.539215
 0.57742   11.044438    81.131130    1.152083
 0.004553    0.790326   127.144437
 0.71828   11.044438    81.131130    1.152083
 0.004553    0.315913   104.941384
 0.85914   11.044438    81.131130    1.152083
 0.004553    0.127945    96.365570
 1.00000   11.044438    81.131130    1.152083
 0.004553    0.468727    94.478392

COMB DB-G3-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -8.961094   -112.778713   -0.827739
-0.004086    -0.919965   -139.283746
 0.57742   -8.961024   -112.778713   -0.827739
-0.004086    -0.572661   -100.455581
 0.71828   -8.961024   -112.778713   -0.827739
-0.004086    -0.225454    -74.510529
 0.85914   -8.961024   -112.778713   -0.827739
-0.004086    -0.179473    -51.436834
 1.00000   -8.961024   -112.778713   -0.827739
-0.004086    -0.661997    -36.517133

COMB DL-G1-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    2.846641    11.457490    0.676448
 7.92E-06    0.751007     2.830093
 0.57742    2.846641    11.457490    0.676448
 7.92E-06    0.467262     2.691474
 0.71828    2.846641    11.457490    0.676448
 7.92E-06    0.183412     4.574319
 0.85914    2.846641    11.457490    0.676448
 7.92E-06    0.077115    10.712955
 1.00000    2.846641    11.457490    0.676448
 7.92E-06    0.298820    17.633288

COMB DL-G1-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -2.267459   -17.747021   -0.528146
-0.001154    -0.587186    -37.514673
 0.57742   -2.267459   -17.747021   -0.528146
-0.001154    -0.365620    -36.470482
 0.71828   -2.267459   -17.747021   -0.528146
-0.001154    -0.143757    -36.753433
 0.85914   -2.267459   -17.747021   -0.528146
-0.001154    -0.099365    -40.944736
 1.00000   -2.267459   -17.747021   -0.528146
-0.001154    -0.382937    -45.260847
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3637

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    3.540976    31.168017    1.158013
 0.000143    1.288370    23.859592
 0.57742    3.540976    31.168017    1.158013
 0.000143    0.802530    17.160998
 0.71828    3.540976    31.168017    1.158013
 0.000143    0.317022    12.956102
 0.85914    3.540976    31.168017    1.158013
 0.000143    0.119156    16.662202
 1.00000    3.540976    31.168017    1.158013
 0.000143    0.514249    25.898093

COMB DL-G1-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -7.181708   -29.135803   -0.906863
-0.001985    -1.007451    -55.195491
 0.57742   -7.181708   -29.135803   -0.906863
-0.001985    -0.626975    -52.810380
 0.71828   -7.181708   -29.135803   -0.906863
-0.001985    -0.246676    -52.316508
 0.85914   -7.181708   -29.135803   -0.906863
-0.001985    -0.167769    -58.437016
 1.00000   -7.181708   -29.135803   -0.906863
-0.001985    -0.653200    -67.248749

COMB DL-G1-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    3.501839    75.423341    1.485321
 1.42E-05    1.655045   152.329616
 0.57742    3.501839    75.423341    1.485321
 1.42E-05    1.031875   126.672653
 0.71828    3.501839    75.423341    1.485321
 1.42E-05    0.409176   103.140785
 0.85914    3.501839    75.423341    1.485321
 1.42E-05    0.157166    86.306115
 1.00000    3.501839    75.423341    1.485321
 1.42E-05    0.609213    73.722110

COMB DL-G1-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -10.123728   -29.074670   -1.077559
-0.001653    -1.197238    -54.953164
 0.57742   -10.123728   -29.074670   -1.077559
-0.001653    -0.744886    -51.538085
 0.71828   -10.123728   -29.074670   -1.077559
-0.001653    -0.292954    -49.618048
 0.85914   -10.123728   -29.074670   -1.077559
-0.001653    -0.212734    -53.486792
 1.00000   -10.123728   -29.074670   -1.077559
-0.001653    -0.835291    -58.952968

COMB DL-G1-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    8.679641    73.597189    1.773659
 0.003362    1.966757   154.073612
 0.57742    8.679641    73.597189    1.773659
 0.003362    1.225526   130.109806
 0.71828    8.679641    73.597189    1.773659
 0.003362    0.487923   114.123164
 0.85914    8.679641    73.597189    1.773659
 0.003362    0.204484   116.383636
 1.00000    8.679641    73.597189    1.773659
 0.003362    0.755492   132.076019

COMB DL-G1-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -9.303074   -92.104579   -1.331115
-0.004016    -1.478858    -98.546323
 0.57742   -9.303074   -92.104579   -1.331115
-0.004016    -0.920106    -68.789619
 0.71828   -9.303074   -92.104579   -1.331115
-0.004016    -0.361947    -51.450353
 0.85914   -9.303074   -92.104579   -1.331115
-0.004016    -0.266551    -46.368355
 1.00000   -9.303074   -92.104579   -1.331115
-0.004016    -1.009316    -53.772950
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3638

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    0.722267    30.079489    0.527644
 8.08E-05    0.589860    53.834294
 0.57742    0.722267    30.079489    0.527644
 8.08E-05    0.368513    41.956890
 0.71828    0.722267    30.079489    0.527644
 8.08E-05    0.147211    30.403410
 0.85914    0.722267    30.079489    0.527644
 8.08E-05    0.057012    20.589926
 1.00000    0.722267    30.079489    0.527644
 8.08E-05    0.218327    14.209883

COMB DL-G2-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -6.013886   -9.623147   -0.384901
-0.000618    -0.427389   -17.113416
 0.57742   -6.013886   -9.623147   -0.384901
-0.000618    -0.265936   -14.688996
 0.71828   -6.013886   -9.623147   -0.384901
-0.000618    -0.104570   -12.559775
 0.85914   -6.013886   -9.623147   -0.384901
-0.000618    -0.056956   -11.894588
 1.00000   -6.013886   -9.623147   -0.384901
-0.000618    -0.295225   -13.002959

COMB DL-G2-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    4.578355    73.287713    1.064043
 0.004272    1.172301   185.285318
 0.57742    4.578355    73.287713    1.064043
 0.004272    0.730372   156.975272
 0.71828    4.578355    73.287713    1.064043
 0.004272    0.293447   137.682919
 0.85914    4.578355    73.287713    1.064043
 0.004272    0.120141   132.220887
 1.00000    4.578355    73.287713    1.064043
 0.004272    0.407583   130.127843

COMB DL-G2-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -8.434921   -60.283454   -0.713410
-0.004489    -0.791935    -40.204485
 0.57742   -8.434921   -60.283454   -0.713410
-0.004489    -0.492359    -18.215220
 0.71828   -8.434921   -60.283454   -0.713410
-0.004489    -0.193621    -13.111360
 0.85914   -8.434921   -60.283454   -0.713410
-0.004489    -0.170108    -12.019945
 1.00000   -8.434921   -60.283454   -0.713410
-0.004489    -0.614914    -12.894882

COMB DL-G2-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    5.485242    76.669488    1.480154
 0.003867    1.635965   166.588537
 0.57742    5.485242    76.669488    1.480154
 0.003867    1.019093    141.588015
 0.71828    5.485242    76.669488    1.480154
 0.003867    0.406722    124.952115
 0.85914    5.485242    76.669488    1.480154
 0.003867    0.169776    124.962592
 1.00000    5.485242    76.669488    1.480154
 0.003867    0.602891    128.449856

COMB DL-G2-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -10.151095   -67.585563   -1.058157
-0.004907    -1.054683    -40.127948
 0.57742   -10.151095   -67.585563   -1.058157
-0.004907    -0.730706    -41.196069
 0.71828   -10.151095   -67.585563   -1.058157
-0.004907    -0.287239    -37.030370
 0.85914   -10.151095   -67.585563   -1.058157
-0.004907    -0.228999    -39.820312
 1.00000   -10.151095   -67.585563   -1.058157
-0.004907    -0.848234    -44.699290
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3639

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    9.028535    76.837951    1.835743
 0.003228    2.039763   153.884963
 0.57742    9.028535    76.837951    1.835743
 0.003228    1.272176   127.689895
 0.71828    9.028535    76.837951    1.835743
 0.003228    0.507442   107.117645
 0.85914    9.028535    76.837951    1.835743
 0.003228    0.216089   101.251545
 1.00000    9.028535    76.837951    1.835743
 0.003228    0.805918   113.961538

COMB DL-G2-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -9.749071   -97.309865   -1.420670
-0.003250    -1.578124   -113.647303
 0.57742   -9.749071   -97.309865   -1.420670
-0.003250    -0.981684    -80.018219
 0.71828   -9.749071   -97.309865   -1.420670
-0.003250    -0.385791    -55.974699
 0.85914   -9.749071   -97.309865   -1.420670
-0.003250    -0.271915    -39.955576
 1.00000   -9.749071   -97.309865   -1.420670
-0.003250    -1.040424    -45.105086

COMB DL-G3-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    7.014963    24.394179    0.995919
 0.001397    1.111397    28.218022
 0.57742    7.014963    24.394179    0.995919
 0.001397    0.693561    18.241549
 0.71828    7.014963    24.394179    0.995919
 0.001397    0.275857     8.437345
 0.85914    7.014963    24.394179    0.995919
 0.001397    0.130642     3.457684
 1.00000    7.014963    24.394179    0.995919
 0.001397    0.508047     2.746378

COMB DL-G3-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -2.447945   -57.689914   -0.898477
-4.35E-06    -0.998372   -112.346932
 0.57742   -2.447945   -57.689914   -0.898477
-4.35E-06    -0.621277    -88.282951
 0.71828   -2.447945   -57.689914   -0.898477
-4.35E-06    -0.243896    -64.314474
 0.85914   -2.447945   -57.689914   -0.898477
-4.35E-06    -0.141906    -44.686557
 1.00000   -2.447945   -57.689914   -0.898477
-4.35E-06    -0.559688    -27.489823

COMB DL-G3-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   13.629293    49.661152    1.564315
 0.007637    1.722295   108.059267
 0.57742   13.629293    49.661152    1.564315
 0.007637    1.072272    90.155630
 0.71828   13.629293    49.661152    1.564315
 0.007637    0.429077    84.643524
 0.85914   13.629293    49.661152    1.564315
 0.007637    0.212643   101.150391
 1.00000   13.629293    49.661152    1.564315
 0.007637    0.744250   122.595719

COMB DL-G3-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -3.894424   -139.643183   -1.305288
-0.005718    -1.450090   -154.181899
 0.57742   -3.894424   -139.643183   -1.305288
-0.005718    -0.902624    -98.143543
 0.71828   -3.894424   -139.643183   -1.305288
-0.005718    -0.354811    -65.593691
 0.85914   -3.894424   -139.643183   -1.305288
-0.005718    -0.251761    -41.513608
 1.00000   -3.894424   -139.643183   -1.305288
-0.005718    -0.906076    -23.773775
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3640

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   11.606923    80.232565    1.812872
 0.005759    2.007258   179.540027
 0.57742   11.606923    80.232565    1.812872
 0.005759    1.251233   148.405163
 0.71828   11.606923    80.232565    1.812872
 0.005759    0.500259   126.336929
 0.85914   11.606923    80.232565    1.812872
 0.005759    0.223872   121.296394
 1.00000   11.606923    80.232565    1.812872
 0.005759    0.810897   121.047366

COMB DL-G3-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -8.162300   -120.138810   -1.426890
-0.004322    -1.584958   -144.856676
 0.57742   -8.162300   -120.138810   -1.426890
-0.004322    -0.986069    -96.542023
 0.71828   -8.162300   -120.138810   -1.426890
-0.004322    -0.387440    -65.215559
 0.85914   -8.162300   -120.138810   -1.426890
-0.004322    -0.277880    -41.078659
 1.00000   -8.162300   -120.138810   -1.426890
-0.004322    -1.036929    -23.021439

COMB DL-G3-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   10.477254    79.077333    1.932715
 0.004784    2.142956   154.404018
 0.57742   10.477254    79.077333    1.932715
 0.004784    1.335965   126.776214
 0.71828   10.477254    79.077333    1.932715
 0.004784    0.533137   106.864312
 0.85914   10.477254    79.077333    1.932715
 0.004784    0.237053   103.993395
 1.00000   10.477254    79.077333    1.932715
 0.004784    0.868772   107.507932

COMB DL-G3-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -10.106089   -109.869545   -1.528978
-0.004250    -1.697992    -132.012246
 0.57742   -10.106089   -109.869545   -1.528978
-0.004250    -1.056340    -97.774412
 0.71828   -10.106089   -109.869545   -1.528978
-0.004250    -0.414884    -72.197694
 0.85914   -10.106089   -109.869545   -1.528978
-0.004250    -0.291885    -54.759318
 1.00000   -10.106089   -109.869545   -1.528978
-0.004250    -1.101256    -43.750950

COMB      DB ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   14.867413    83.447897    1.152083
 0.007573    1.271024   187.970757
 0.57742   14.867413    83.447897    1.152083
 0.007573    0.790326   156.290942
 0.71828   14.867413    83.447897    1.152083
 0.007573    0.315913   134.439407
 0.85914   14.867413    83.447897    1.152083
 0.007573    0.127945   128.327576
 1.00000   14.867413    83.447897    1.152083
 0.007573    0.468727   126.353473

COMB      DB ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -9.847301   -149.955613   -0.827739
-0.005719    -0.919965    -162.860059
 0.57742   -9.847301   -149.955613   -0.827739
-0.005719    -0.572661    -106.405793
 0.71828   -9.847301   -149.955613   -0.827739
-0.005719    -0.225454    -74.510529
 0.85914   -9.847301   -149.955613   -0.827739
-0.005719    -0.179473    -53.134745
 1.00000   -9.847301   -149.955613   -0.827739
-0.005719    -0.661997    -61.218254
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3641

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   13.629293    80.232565    1.932715
 0.007637    2.142956   185.285318
 0.57742   13.629293    80.232565    1.932715
 0.007637    1.335965   156.975272
 0.71828   13.629293    80.232565    1.932715
 0.007637    0.533137   137.682919
 0.85914   13.629293    80.232565    1.932715
 0.007637    0.237053   132.220887
 1.00000   13.629293    80.232565    1.932715
 0.007637    0.868772   132.076019

COMB      DL ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -10.151095   -139.643183   -1.528978
```

```
-0.005718   -1.697992 -154.181899
0.57742  -10.151095 -139.643183     -1.528978
-0.005718   -1.056340   -98.143543
0.71828  -10.151095 -139.643183     -1.528978
-0.005718   -0.414884   -72.197594
0.85914  -10.151095 -139.643183     -1.528978
-0.005718   -0.291885   -58.437016
1.00000  -10.151095 -139.643183     -1.528978
-0.005718   -1.101256   -67.248749

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656   14.867413   83.447897    1.932715
0.007637    2.142956  187.970757
0.57742   14.867413   83.447897    1.932715
0.007637    1.335965  156.975272
0.71828   14.867413   83.447897    1.932715
0.007637    0.533137  137.682919
0.85914   14.867413   83.447897    1.932715
0.007637    0.237053  132.220887
1.00000   14.867413   83.447897    1.932715
0.007637    0.868772  132.076019

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656  -10.151095 -149.955613     -1.528978
-0.005719   -1.697992 -162.860059
0.57742  -10.151095 -149.955613     -1.528978
-0.005719   -1.056340 -106.405793
0.71828  -10.151095 -149.955613     -1.528978
-0.005719   -0.414884   -74.510529
0.85914  -10.151095 -149.955613     -1.528978
-0.005719   -0.291885   -58.437016
1.00000  -10.151095 -149.955613     -1.528978
-0.005719   -1.101256   -67.248749

COMB    DESIGN ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656   14.867413   83.447897    1.932715
0.007637    2.142956  187.970757
0.57742   14.867413   83.447897    1.932715
0.007637    1.335965  156.975272
0.71828   14.867413   83.447897    1.932715
0.007637    0.533137  137.682919
0.85914   14.867413   83.447897    1.932715
0.007637    0.237053  132.220887
1.00000   14.867413   83.447897    1.932715
0.007637    0.868772  132.076019

COMB    DESIGN ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656  -10.151095 -149.955613     -1.528978
-0.005719   -1.697992 -162.860059
0.57742  -10.151095 -149.955613     -1.528978
-0.005719   -1.056340 -106.405793
0.71828  -10.151095 -149.955613     -1.528978
-0.005719   -0.414884   -74.510529
0.85914  -10.151095 -149.955613     -1.528978
-0.005719   -0.291885   -58.437016
1.00000  -10.151095 -149.955613     -1.528978
-0.005719   -1.101256   -67.248749
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3642

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       347 ================== LENGTH
=     2.976844

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.559501   10.435113    0.333671
 6.92E-06    0.182470   11.979653
0.14082    1.559501   10.435113    0.333671
 6.92E-06    0.042692   17.404176
0.28165    1.559501   10.435113    0.333671
 6.92E-06    0.090950   22.933988
0.42247    1.559501   10.435113    0.333671
 6.92E-06    0.226707   28.466598
0.56330    1.559501   10.435113    0.333671
 6.92E-06    0.362453   34.068476

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -2.221341  -13.355880   -0.323811
-0.000753   -0.180527   -39.656288
0.14082   -2.221341  -13.355880   -0.323811
-0.000753   -0.044774   -43.669054
0.28165   -2.221341  -13.355880   -0.323811
-0.000753   -0.092527   -47.700527
0.42247   -2.221341  -13.355880   -0.323811
-0.000753   -0.237238   -51.850425
0.56330   -2.221341  -13.355880   -0.323811
-0.000753   -0.377111   -56.089949

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    2.250687   31.660367    0.630050
 0.000187    0.347129   19.757424
0.14082    2.250687   31.660367    0.630050
 0.000187    0.083179   26.538613
0.28165    2.250687   31.660367    0.630050
 0.000187    0.145577   33.934282
0.42247    2.250687   31.660367    0.630050
 0.000187    0.363591   42.227268
0.56330    2.250687   31.660367    0.630050
 0.000187    0.581604   50.996945

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.552840  -21.523513   -0.520016
-0.001545   -0.290368   -61.233628
0.14082   -6.552840  -21.523513   -0.520016
-0.001545   -0.072733   -71.275485
0.28165   -6.552840  -21.523513   -0.520016
-0.001545   -0.182060   -81.738890
0.42247   -6.552840  -21.523513   -0.520016
-0.001545   -0.445603   -92.696084
0.56330   -6.552840  -21.523513   -0.520016
-0.001545   -0.709561  -104.953741

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    2.219143   80.763313    0.896413
 6.23E-06    0.494608   57.864425
0.14082    2.219143   80.763313    0.896413
 6.23E-06    0.119056   49.082583
0.28165    2.219143   80.763313    0.896413
 6.23E-06    0.157578   51.873020
0.42247    2.219143   80.763313    0.896413
 6.23E-06    0.393308   57.592286
0.56330    2.219143   80.763313    0.896413
 6.23E-06    0.629059   64.165061

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.777460  -22.597887   -0.562103
-0.001722   -0.313452   -53.578350
0.14082   -9.777460  -22.597887   -0.562103
-0.001722   -0.077596   -58.276051
0.28165   -9.777460  -22.597887   -0.562103
-0.001722   -0.257611   -74.967344
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3643

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.42247   -9.777460  -22.597887   -0.562103
-0.001722   -0.633256  -107.324555
0.56330   -9.777460  -22.597887   -0.562103
-0.001722   -1.009005  -140.536564

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.377140  110.507997    1.063688
 0.003852    0.604408  124.155674
0.14082    6.377140  110.507997    1.063688
 0.003852    0.159384  117.332062
0.28165    6.377140  110.507997    1.063688
 0.003852    0.197508  119.863523
0.42247    6.377140  110.507997    1.063688
 0.003852    0.493473  133.985601
0.56330    6.377140  110.507997    1.063688
 0.003852    0.789440  156.728696

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.492167  -62.392704   -0.705795
-0.004908   -0.394028   -48.495446
0.14082  -10.492167  -62.392704   -0.705795
-0.004908   -0.106021   -54.399818
0.28165  -10.492167  -62.392704   -0.705795
-0.004908   -0.299854   -71.696830
0.42247  -10.492167  -62.392704   -0.705795
-0.004908   -0.736695  -100.920390
0.56330  -10.492167  -62.392704   -0.705795
-0.004908   -1.179646  -139.612376

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.615026   33.280920    0.359019
 9.46E-06    0.199054   12.961890
0.14082    0.615026   33.280920    0.359019
 9.46E-06    0.048688   11.156132
0.28165    0.615026   33.280920    0.359019
 9.46E-06    0.049281   11.885814
0.42247    0.615026   33.280920    0.359019
 9.46E-06    0.123978   13.238980
0.56330    0.615026   33.280920    0.359019
 9.46E-06    0.198717   14.774829

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.353372   -8.047929   -0.178221
-0.000677   -0.100107   -13.928983
0.14082   -5.353372   -8.047929   -0.178221
-0.000677   -0.025409   -18.169119
0.28165   -5.353372   -8.047929   -0.178221
-0.000677   -0.102301   -30.300504
0.42247   -5.353372   -8.047929   -0.178221
-0.000677   -0.256026   -43.280834
0.56330   -5.353372   -8.047929   -0.178221
-0.000677   -0.403188   -57.007586

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.818591  128.330153    0.748837
 0.004839    0.435745  126.623158
0.14082    1.818591  128.330153    0.748837
 0.004839    0.122919   89.259829
0.28165    1.818591  128.330153    0.748837
 0.004839    0.090762   64.243550
0.42247    1.818591  128.330153    0.748837
 0.004839    0.227008   54.972109
0.56330    1.818591  128.330153    0.748837
 0.004839    0.363272   57.372409

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.450894  -16.428881   -0.324766
-0.005765   -0.181256   -13.503381
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3644

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.14082  -10.450894  -16.428881   -0.324766
-0.005765   -0.056003   -14.439438
0.28165  -10.450894  -16.428881   -0.324766
-0.005765   -0.208929   -28.852809
0.42247  -10.450894  -16.428881   -0.324766
-0.005765   -0.510482   -59.667382
0.56330  -10.450894  -16.428881   -0.324766
-0.005765   -0.820367  -103.345940

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    2.697089  125.516120    0.946526
 0.004373    0.541781  121.566587
0.14082    2.697089  125.516120    0.946526
 0.004373    0.146017   92.147145
0.28165    2.697089  125.516120    0.946526
 0.004373    0.150117   73.745831
0.42247    2.697089  125.516120    0.946526
 0.004373    0.375022   69.522422
0.56330    2.697089  125.516120    0.946526
 0.004373    0.599926   75.850950

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -11.890776  -24.792919   -0.536241
-0.005806   -0.299217   -42.219112
0.14082  -11.890776  -24.792919   -0.536241
-0.005806   -0.061205   -46.681933
0.28165  -11.890776  -24.792919   -0.536241
-0.005806   -0.267084   -63.756645
0.42247  -11.890776  -24.792919   -0.536241
-0.005806   -0.652688   -95.425748
0.56330  -11.890776  -24.792919   -0.536241
-0.005806   -1.045834  -138.676169

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.961676  106.704256    1.096974
 0.003540    0.622265  107.180225
0.14082    7.961676  106.704256    1.096974
 0.003540    0.163196  108.961605
0.28165    7.961676  106.704256    1.096974
 0.003540    0.209174  120.280485
0.42247    7.961676  106.704256    1.096974
 0.003540    0.523141  141.634641
0.56330    7.961676  106.704256    1.096974
 0.003540    0.837104  170.065299

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.370499  -75.457823   -0.748764
-0.004081   -0.418344   -41.226071
0.14082  -10.370499  -75.457823   -0.748764
-0.004081   -0.110825   -48.676050
0.28165  -10.370499  -75.457823   -0.748764
-0.004081   -0.307657   -66.594132
0.42247  -10.370499  -75.457823   -0.748764
-0.004081   -0.760099   -97.214869
0.56330  -10.370499  -75.457823   -0.748764
-0.004081   -1.217562  -135.605514

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    8.141447   18.718265    0.482993
 0.001274    0.272598    2.385780
0.14082    8.141447   18.718265    0.482993
 0.001274    0.070538   14.883775
0.28165    8.141447   18.718265    0.482993
 0.001274    0.143399   41.247885
0.42247    8.141447   18.718265    0.482993
 0.001274    0.359377   67.818177
0.56330    8.141447   18.718265    0.482993
 0.001274    0.575340   94.462678
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3645

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1.491451  -63.702245   -0.515164
-1.99E-05   -0.288510   -13.539275
0.14082   -1.491451  -63.702245   -0.515164
-1.99E-05   -0.072482   -18.379042
0.28165   -1.491451  -63.702245   -0.515164
-1.99E-05   -0.134347   -25.301913
0.42247   -1.491451  -63.702245   -0.515164
-1.99E-05   -0.336806   -42.592663
0.56330   -1.491451  -63.702245   -0.515164
-1.99E-05   -0.539275   -40.322082

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   11.371647  103.170067    0.848146
 0.007282    0.501055  115.265914
0.14082   11.371647  103.170067    0.848146
 0.007282    0.146661  110.589541
0.28165   11.371647  103.170067    0.848146
 0.007282    0.201264  114.673337
0.42247   11.371647  103.170067    0.848146
 0.007282    0.504243  135.884406
0.56330   11.371647  103.170067    0.848146
 0.007282    0.807168  170.609940

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.809817  -88.143390   -0.722606
-0.005961   -0.404530   -14.193753
0.14082   -5.809817  -88.143390   -0.722606
-0.005961   -0.114811   -22.785122
0.28165   -5.809817  -88.143390   -0.722606
-0.005961   -0.230171   -31.572885
0.42247   -5.809817  -88.143390   -0.722606
-0.005961   -0.570695   -44.637041
0.56330   -5.809817  -88.143390   -0.722606
-0.005961   -0.921352   -75.627618

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.033192  123.206665    1.073834
 0.005243    0.618038  108.021821
0.14082   10.033192  123.206665    1.073834
 0.005243    0.168826  102.884498
0.28165   10.033192  123.206665    1.073834
 0.005243    0.207757  111.160197
0.42247   10.033192  123.206665    1.073834
 0.005243    0.520201  132.723876
0.56330   10.033192  123.206665    1.073834
 0.005243    0.832645  164.103935

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -9.281396  -84.320606   -0.745061
-0.004685   -0.116658   -15.604904
0.14082   -9.281396  -84.320606   -0.745061
-0.004685   -0.113195   -21.211665
0.28165   -9.281396  -84.320606   -0.745061
-0.004685   -0.296519   -39.737397
0.42247   -9.281396  -84.320606   -0.745061
-0.004685   -0.736323   -72.569725
0.56330   -9.281396  -84.320606   -0.745061
-0.004685   -1.183119  -115.813546

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.070437  113.961058    1.130832
 0.004344    0.644913   94.665892
0.14082    9.070437  113.961058    1.130832
 0.004344    0.171675   93.453567
0.28165    9.070437  113.961058    1.130832
 0.004344    0.226009  103.595148
0.42247    9.070437  113.961058    1.130832
 0.004344    0.565649  124.186862
0.56330    9.070437  113.961058    1.130832
 0.004344    0.905291  154.160651
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3646

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.593627  -77.910613   -0.809980
-0.004394   -0.452879   -36.504458
0.14082  -10.593627  -77.910613   -0.809980
-0.004394   -0.120708   -45.143493
0.28165  -10.593627  -77.910613   -0.809980
-0.004394   -0.315083   -64.200820
0.42247  -10.593627  -77.910613   -0.809980
-0.004394   -0.780531   -95.720552
0.56330  -10.593627  -77.910613   -0.809980
-0.004394   -1.251798  -136.206911

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    2.827071   11.566273    0.624234
 4.03E-06    0.344426   17.647478
0.14082    2.827071   11.566273    0.624234
 4.03E-06    0.081774   24.881932
0.28165    2.827071   11.566273    0.624234
 4.03E-06    0.146123   32.190280
0.42247    2.827071   11.566273    0.624234
 4.03E-06    0.367424   39.525546
0.56330    2.827071   11.566273    0.624234
 4.03E-06    0.588621   46.893146

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -2.254574  -17.800993   -0.527689
-0.000781   -0.296026   -45.270680
0.14082   -2.254574  -17.800993   -0.527689
-0.000781   -0.074495   -49.744277
0.28165   -2.254574  -17.800993   -0.527689
-0.000781   -0.178899   -54.268629
0.42247   -2.254574  -17.800993   -0.527689
-0.000781   -0.440582   -58.835371
0.56330   -2.254574  -17.800993   -0.527689
-0.000781   -0.702391   -63.456014

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.450734   32.266925    1.098402
 0.000112    0.608361   25.922638
0.14082    3.450734   32.266925    1.098402
 0.000112    0.148114   35.840134
0.28165    3.450734   32.266925    1.098402
 0.000112    0.249006   46.372862
0.42247    3.450734   32.266925    1.098402
 0.000112    0.623493   57.520040
0.56330    3.450734   32.266925    1.098402
 0.000112    0.998053   69.012309

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -7.222425  -28.170859   -0.893437
-0.001499   -0.500316   -67.265412
0.14082   -7.222425  -28.170859   -0.893437
-0.001499   -0.125769   -77.475396
0.28165   -7.222425  -28.170859   -0.893437
-0.001499   -0.311438   -88.426937
0.42247   -7.222425  -28.170859   -0.893437
-0.001499   -0.771679  -100.493150
0.56330   -7.222425  -28.170859   -0.893437
-0.001499   -1.232124  -113.378647

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.480672   75.221674    1.426912
 7.94E-06    0.791074   73.375584
0.14082    3.480672   75.221674    1.426912
 7.94E-06    0.193129   66.445563
0.28165    3.480672   75.221674    1.426912
 7.94E-06    0.295373   66.903936
0.42247    3.480672   75.221674    1.426912
 7.94E-06    0.741014   75.212278
0.56330    3.480672   75.221674    1.426912
 7.94E-06    1.187014   85.215859
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3647

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.074980  -29.327095   -1.063092
-0.001653   -0.594055   -58.961729
0.14082  -10.074980  -29.327095   -1.063092
-0.001653   -0.148272   -65.109462
0.28165  -10.074980  -29.327095   -1.063092
-0.001653   -0.403864   -79.997306
0.42247  -10.074980  -29.327095   -1.063092
-0.001653   -1.001789  -108.574816
0.56330  -10.074980  -29.327095   -1.063092
-0.001653   -1.600178  -138.694178

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.000210   99.707580    1.730917
 0.003009    0.974758  132.097559
0.14082    7.000210   99.707580    1.730917
 0.003009    0.250000  129.206908
0.28165    7.000210   99.707580    1.730917
 0.003009    0.364011  132.857480
0.42247    7.000210   99.707580    1.730917
 0.003009    0.913589  149.771563
0.56330    7.000210   99.707580    1.730917
 0.003009    1.463414  173.535357

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.721420  -64.934108   -1.311107
-0.004068   -0.736864   -53.776758
0.14082  -10.721420  -64.934108   -1.311107
-0.004068   -0.193899   -62.052936
0.28165  -10.721420  -64.934108   -1.311107
-0.004068   -0.485877   -77.830880
0.42247  -10.721420  -64.934108   -1.311107
-0.004068   -1.205503  -104.770982
0.56330  -10.721420  -64.934108   -1.311107
-0.004068   -1.928185  -142.828867

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.719865   30.091866    0.524095
 5.42E-06    0.292822   14.212048
0.14082    0.719865   30.091866    0.524095
 5.42E-06    0.073287   12.877957
0.28165    0.719865   30.091866    0.524095
 5.42E-06    0.104801   14.790224
0.42247    0.719865   30.091866    0.524095
 5.42E-06    0.261157   17.536978
0.56330    0.719865   30.091866    0.524095
 5.42E-06    0.417787   20.620387

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.009901   -9.690346   -0.373554
-0.000631   -0.208523   -13.003759
0.14082   -6.009901   -9.690346   -0.373554
-0.000631   -0.051821   -18.305916
0.28165   -6.009901   -9.690346   -0.373554
-0.000631   -0.146443   -28.584739
0.42247   -6.009901   -9.690346   -0.373554
-0.000631   -0.366151   -40.139078
0.56330   -6.009901   -9.690346   -0.373554
-0.000631   -0.585851   -52.164765

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.997886  113.129161    1.054773
 0.004126    0.607272  130.159183
0.14082    1.997886  113.129161    1.054773
 0.004126    0.166454   95.926982
0.28165    1.997886  113.129161    1.054773
 0.004126    0.194261   70.518063
0.42247    1.997886  113.129161    1.054773
 0.004126    0.487105   63.778969
0.56330    1.997886  113.129161    1.054773
 0.004126    0.780847   66.840366
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                      3648

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.612526  -18.296213   -0.700135
```

```
-0.004983   -0.396694   -12.888372
0.14082   -10.612526   -18.296213   -0.700135
-0.004983   -0.114125   -14.497763
0.28165   -10.612526   -18.296213   -0.700135
-0.004983   -0.292924   -26.821700
0.42247   -10.612526   -18.296213   -0.700135
-0.004983   -0.726285   -52.979614
0.56330   -10.612526   -18.296213   -0.700135
-0.004983   -1.163481   -95.451270

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    3.136929   112.796549    1.441254
0.003734    0.818268   128.490264
0.14082    3.136929   112.796549    1.441254
0.003734    0.215559   102.975168
0.28165    3.136929   112.796549    1.441254
0.003734    0.288869    85.531356
0.42247    3.136929   112.796549    1.441254
0.003734    0.724039    84.931004
0.56330    3.136929   112.796549    1.441254
0.003734    1.159949    93.149176

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.108568   -29.657822   -1.039271
-0.005125   -0.585981   -44.701227
0.14082  -12.108568   -29.657822   -1.039271
-0.005125   -0.150203   -50.306234
0.28165  -12.108568   -29.657822   -1.039271
-0.005125   -0.403335   -65.959589
0.42247  -12.108568   -29.657822   -1.039271
-0.005125   -0.999659   -93.918572
0.56330  -12.108568   -29.657822   -1.039271
-0.005125   -1.599316  -136.572313

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.651496   98.440688    1.818739
0.002902    1.024232   113.969144
0.14082    7.651496   98.440688    1.818739
0.002902    0.262712   117.330838
0.28165    7.651496   98.440688    1.818739
0.002902    0.386668   127.616119
0.42247    7.651496   98.440688    1.818739
0.002902    0.969346   150.014927
0.56330    7.651496   98.440688    1.818739
0.002902    1.552634   178.134354

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.927694   -74.843364   -1.390280
-0.003422   -0.779531   -45.095075
0.14082  -10.927694   -74.843364   -1.390280
-0.003422   -0.202186   -54.639743
0.28165  -10.927694   -74.843364   -1.390280
-0.003422   -0.508490   -72.628529
0.42247  -10.927694   -74.843364   -1.390280
-0.003422   -1.266019  -101.355539
0.56330  -10.927694   -74.843364   -1.390280
-0.003422   -2.025715  -139.311033

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.051937   24.239615    1.007169
0.001245    0.565467    2.745693
0.14082    7.051937   24.239615    1.007169
0.001245    0.143105   13.376103
0.28165    7.051937   24.239615    1.007169
0.001245    0.224545   36.416156
0.42247    7.051937   24.239615    1.007169
0.001245    0.608388   59.990948
0.56330    7.051937   24.239615    1.007169
0.001245    0.973844   83.823346
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   3649

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -2.461566   -57.755694   -0.871278
-1.50E-05   -0.486070   -27.498179
0.14082   -2.461566   -57.755694   -0.871278
-1.50E-05   -0.119991   -28.089835
0.28165   -2.461566   -57.755694   -0.871278
-1.50E-05   -0.279817   -36.737535
0.42247   -2.461566   -57.755694   -0.871278
-1.50E-05   -0.701688   -46.172228
0.56330   -2.461566   -57.755694   -0.871278
-1.50E-05   -1.123671   -55.942385

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   10.016396   106.270690    1.576992
0.007188    0.910356   122.644190
0.14082   10.016396   106.270690    1.576992
0.007188    0.250785   114.907845
0.28165   10.016396   106.270690    1.576992
0.007188    0.354013   114.593799
0.42247   10.016396   106.270690    1.576992
0.007188    0.388834   130.885573
0.56330   10.016396   106.270690    1.576992
0.007188    1.423208   160.100254

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -7.038210   -80.001587   -1.275187
-0.005941   -0.721108   -23.758075
0.14082   -7.038210   -80.001587   -1.275187
-0.005941   -0.201014   -31.711869
0.28165   -7.038210   -80.001587   -1.275187
-0.005941   -0.443734   -42.988964
0.42247   -7.038210   -80.001587   -1.275187
-0.005941   -1.083406   -58.474006
0.56330   -7.038210   -80.001587   -1.275187
-0.005941   -1.737585   -96.724148

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.012500   120.947288    1.822239
0.005378    1.039344   121.077063
0.14082    9.012500   120.947288    1.822239
0.005378    0.276535   110.013156
0.28165    9.012500   120.947288    1.822239
0.005378    0.386776   110.987868
0.42247    9.012500   120.947288    1.822239
0.005378    0.970363   129.262526
0.56330    9.012500   120.947288    1.822239
0.005378    1.554349   157.209920

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -10.412269   -77.326145   -1.392288
-0.004772   -0.763206   -23.005647
0.14082  -10.412269   -77.326145   -1.392288
-0.004772   -0.209677   -29.052809
0.28165  -10.412269   -77.326145   -1.392288
-0.004772   -0.505019   -48.227345
0.42247  -10.412269   -77.326145   -1.392288
-0.004772   -1.259871   -77.702075
0.56330  -10.412269   -77.326145   -1.392288
-0.004772   -2.018795  -123.408642

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.319108   112.859297    1.925203
0.004467    1.091877   107.542774
0.14082    8.319108   112.859297    1.925203
0.004467    0.285856   102.476100
0.28165    8.319108   112.859297    1.925203
0.004467    0.414830   107.322908
0.42247    8.319108   112.859297    1.925203
0.004467    1.039570   126.695776
0.56330    8.319108   112.859297    1.925203
0.004467    1.664585   154.125585
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   3650

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -11.965715   -74.412650   -1.490306
-0.004484   -0.836865   -43.745018
0.14082  -11.965715   -74.412650   -1.490306
-0.004484   -0.220743   -53.095571
0.28165  -11.965715   -74.412650   -1.490306
-0.004484   -0.535504   -73.250914
0.42247  -11.965715   -74.412650   -1.490306
-0.004484   -1.335007  -102.600442
0.56330  -11.965715   -74.412650   -1.490306
-0.004484   -2.137890  -145.612829

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.371647   128.330153    1.130832
0.007282    0.644913   126.623158
0.14082   11.371647   128.330153    1.130832
0.007282    0.171675   117.332062
0.28165   11.371647   128.330153    1.130832
0.007282    0.226009   120.280485
0.42247   11.371647   128.330153    1.130832
0.007282    0.565649   141.634641
0.56330   11.371647   128.330153    1.130832
0.007282    0.905291   170.609940

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -11.890776   -88.143390   -0.809980
-0.005961   -0.452879   -61.233628
0.14082  -11.890776   -88.143390   -0.809980
-0.005961   -0.120708   -71.275485
0.28165  -11.890776   -88.143390   -0.809980
-0.005961   -0.315083   -81.738890
0.42247  -11.890776   -88.143390   -0.809980
-0.005961   -0.780531  -107.324555
0.56330  -11.890776   -88.143390   -0.809980
-0.005961   -1.251798  -140.536564

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   10.016396   120.947288    1.925203
0.007188    1.091877   132.097559
0.14082   10.016396   120.947288    1.925203
0.007188    0.285856   129.206908
0.28165   10.016396   120.947288    1.925203
0.007188    0.414830   132.857480
0.42247   10.016396   120.947288    1.925203
0.007188    1.039570   150.014927
0.56330   10.016396   120.947288    1.925203
0.007188    1.664585   178.134354

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.108568   -80.001587   -1.490306
-0.005941   -0.836865   -67.265412
0.14082  -12.108568   -80.001587   -1.490306
-0.005941   -0.220743   -77.475596
0.28165  -12.108568   -80.001587   -1.490306
-0.005941   -0.535504   -88.426937
0.42247  -12.108568   -80.001587   -1.490306
-0.005941   -1.335007  -108.574816
0.56330  -12.108568   -80.001587   -1.490306
-0.005941   -2.137890  -145.612829

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.371647   128.330153    1.925203
0.007282    1.091877   132.097559
0.14082   11.371647   128.330153    1.925203
0.007282    0.285856   129.206908
0.28165   11.371647   128.330153    1.925203
0.007282    0.414830   132.857480
0.42247   11.371647   128.330153    1.925203
0.007282    1.039570   150.014927
0.56330   11.371647   128.330153    1.925203
0.007282    1.664585   178.134354
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   3651

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.108568   -88.143390   -1.490306
-0.005961   -0.836865   -67.265412
0.14082  -12.108568   -88.143390   -1.490306
-0.005961   -0.220743   -77.475596
0.28165  -12.108568   -88.143390   -1.490306
-0.005961   -0.535504   -88.426937
0.42247  -12.108568   -88.143390   -1.490306
-0.005961   -1.335007  -108.574816
0.56330  -12.108568   -88.143390   -1.490306
-0.005961   -2.137890  -145.612829

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.371647   128.330153    1.925203
0.007282    1.091877   132.097559
0.14082   11.371647   128.330153    1.925203
0.007282    0.285856   129.206908
0.28165   11.371647   128.330153    1.925203
0.007282    0.414830   132.857480
0.42247   11.371647   128.330153    1.925203
0.007282    1.039570   150.014927
0.56330   11.371647   128.330153    1.925203
0.007282    1.664585   178.134354

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -12.108568   -88.143390   -1.490306
-0.005961   -0.836865   -67.265412
0.14082  -12.108568   -88.143390   -1.490306
-0.005961   -0.220743   -77.475596
0.28165  -12.108568   -88.143390   -1.490306
-0.005961   -0.535504   -88.426937
0.42247  -12.108568   -88.143390   -1.490306
-0.005961   -1.335007  -108.574816
0.56330  -12.108568   -88.143390   -1.490306
-0.005961   -2.137890  -145.612829

ELEM      348 ================== LENGTH
=    2.976798

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    2.712236    1.939539    0.386349
9.10E-06    0.431485    2.652133
0.57753    2.712236    1.939539    0.386349
9.10E-06    0.269535    2.708255
0.71836    2.712236    1.939539    0.386349
9.10E-06    0.107587    4.194459
0.85918    2.712236    1.939539    0.386349
9.10E-06    0.048148    7.235844
1.00000    2.712236    1.939539    0.386349
9.10E-06    0.186446   13.208880

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -0.679691   -19.123906   -0.329781
-0.001178   -0.366529   -23.463649
0.57753   -0.679691   -19.123906   -0.329781
-0.001178   -0.228285   -23.897004
0.71836   -0.679691   -19.123906   -0.329781
-0.001178   -0.090026   -24.396660
0.85918   -0.679691   -19.123906   -0.329781
-0.001178   -0.054427   -24.969626
1.00000   -0.679691   -19.123906   -0.329781
-0.001178   -0.216356   -25.603882

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    3.991892   10.743839    0.728316
0.000173    0.812940   10.962313
0.57753    3.991892   10.743839    0.728316
0.000173    0.507831    7.530344
0.71836    3.991892   10.743839    0.728316
0.000173    0.202741    6.731110
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   3652

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.85918    3.991892   10.743839    0.728316
0.000173    0.077257   10.195012
1.00000    3.991892   10.743839    0.728316
0.000173    0.298567   20.829370

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -4.048560   -36.412065   -0.529014
-0.002171   -0.588463   -49.207537
0.57753   -4.048560   -36.412065   -0.529014
-0.002171   -0.366697   -46.135829
0.71836   -4.048560   -36.412065   -0.529014
-0.002171   -0.144895   -45.537148
0.85918   -4.048560   -36.412065   -0.529014
-0.002171   -0.103089   -45.912382
1.00000   -4.048560   -36.412065   -0.529014
-0.002171   -0.408616   -47.186041

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    3.984445   53.661630    1.019143
6.07E-06    1.138703  114.144773
0.57753    3.984445   53.661630    1.019143
6.07E-06    0.711498   92.344798
0.71836    3.984445   53.661630    1.019143
6.07E-06    0.284292   72.398638
0.85918    3.984445   53.661630    1.019143
6.07E-06    0.094311   56.379184
1.00000    3.984445   53.661630    1.019143
6.07E-06    0.369076   47.235890

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -6.891700   -41.826757   -0.655007
-0.001769   -0.729231   -61.699636
0.57753   -6.891700   -41.826757   -0.655007
-0.001769   -0.454653   -54.768214
0.71836   -6.891700   -41.826757   -0.655007
-0.001769   -0.180000   -49.110352
0.85918   -6.891700   -41.826757   -0.655007
-0.001769   -0.143251   -43.711410
1.00000   -6.891700   -41.826757   -0.655007
-0.001769   -0.570385   -38.760950

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    9.230303   55.655551    1.159481
0.003837    1.286558  118.506311
0.57753    9.230303   55.655551    1.159481
0.003837    0.804340   96.719180
0.71836    9.230303   55.655551    1.159481
0.003837    0.322156   82.711246
0.85918    9.230303   55.655551    1.159481
0.003837    0.122428   86.332227
1.00000    9.230303   55.655551    1.159481
0.003837    0.441024  107.233689

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -6.742606  -109.509229   -0.783175
-0.004813   -0.87294  -109.469945
0.57753   -6.742606  -109.509229   -0.783175
-0.004813   -0.543889   -74.120588
0.71836   -6.742606  -109.509229   -0.783175
-0.004813   -0.215512   -51.731295
0.85918   -6.742606  -109.509229   -0.783175
-0.004813   -0.176720   -36.944796
1.00000   -6.742606  -109.509229   -0.783175
-0.004813   -0.662163   -36.212849

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    1.018151   20.191459    0.408792
1.24E-05    0.456678   31.958396
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   3653

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.57753    1.018151   20.191459    0.408792
1.24E-05    0.285328   24.186241
0.71836    1.018151   20.191459    0.408792
1.24E-05    0.113979   17.245591
0.85918    1.018151   20.191459    0.408792
1.24E-05    0.029851   12.039780
1.00000    1.018151   20.191459    0.408792
1.24E-05    0.118347   10.071973

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -4.387166   -17.335716   -0.210991
-0.000758   -0.235430   -31.590731
0.57753   -4.387166   -17.335716   -0.210991
-0.000758   -0.146976   -25.961571
0.71836   -4.387166   -17.335716   -0.210991
-0.000758   -0.058488   -21.918179
0.85918   -4.387166   -17.335716   -0.210991
-0.000758   -0.057574   -18.224157
1.00000   -4.387166   -17.335716   -0.210991
-0.000758   -0.228923   -15.551347

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    5.349757   60.544474    0.815016
0.004484    0.897421  138.319914
0.57753    5.349757   60.544474    0.815016
0.004484    0.560972  114.254441
0.71836    5.349757   60.544474    0.815016
0.004484    0.224553   98.257847
0.85918    5.349757   60.544474    0.815016
0.004484    0.073067  101.036383
1.00000    5.349757   60.544474    0.815016
0.004484    0.235599  107.415194

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -6.691440   -81.677496   -0.419668
-0.005146   -0.468086   -69.028121
0.57753   -6.691440   -81.677496   -0.419668
-0.005146   -0.292164   -58.512520
0.71836   -6.691440   -81.677496   -0.419668
-0.005146   -0.116163   -25.692149
0.85918   -6.691440   -81.677496   -0.419668
-0.005146   -0.134402   -18.780602
1.00000   -6.691440   -81.677496   -0.419668
-0.005146   -0.475281   -13.105701

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    6.645669   56.383042    1.050932
0.004052    1.162066  125.705669
0.57753    6.645669   56.383042    1.050932
0.004052    0.726236  103.747019
0.71836    6.645669   56.383042    1.050932
0.004052    0.290456   89.105593
0.85918    6.645669   56.383042    1.050932
0.004052    0.102054   93.163814
1.00000    6.645669   56.383042    1.050932
0.004052    0.352486  105.150933

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -7.462364   -88.877636   -0.626259
-0.005546   -0.697615   -80.805048
0.57753   -7.462364   -88.877636   -0.626259
-0.005546   -0.435089   -54.004113
0.71836   -7.462364   -88.877636   -0.626259
-0.005546   -0.172480   -42.928122
0.85918   -7.462364   -88.877636   -0.626259
-0.005546   -0.165747   -37.196390
1.00000   -7.462364   -88.877636   -0.626259
-0.005546   -0.605631   -32.589397
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   3654

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    9.341393   63.630443    1.179251
0.003592    1.311216  127.180788
0.57753    9.341393   63.630443    1.179251
0.003592    0.820023  102.168981
0.71836    9.341393   63.630443    1.179251
0.003592    0.328906   82.510472
0.85918    9.341393   63.630443    1.179251
0.003592    0.126384   77.389855
1.00000    9.341393   63.630443    1.179251
0.003592    0.464667   90.687656

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -7.882810  -108.440142   -0.825791
-0.003893   -0.911981  -122.843459
0.57753   -7.882810  -108.440142   -0.825791
-0.003893   -0.573777   -85.678620
0.71836   -7.882810  -108.440142   -0.825791
-0.003893   -0.227550   -59.053311
0.85918   -7.882810  -108.440142   -0.825791
-0.003893   -0.176001   -35.965199
1.00000   -7.882810  -108.440142   -0.825791
-0.003893   -0.669827   -33.743151

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671    5.419532   32.715814    0.485562
0.001424    0.540989   44.697182
0.57753    5.419532   32.715814    0.485562
0.001424    0.337448   31.160667
0.71836    5.419532   32.715814    0.485562
0.001424    0.134075   17.810600
0.85918    5.419532   32.715814    0.485562
0.001424    0.073941    5.707111
1.00000    5.419532   32.715814    0.485562
0.001424    0.290813    1.985018

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -3.344028   -41.043604   -0.517079
-7.22E-06   -0.576224   -81.750518
0.57753   -3.344028   -41.043604   -0.517079
-7.22E-06   -0.359465   -64.596140
0.71836   -3.344028   -41.043604   -0.517079
-7.22E-06   -0.142689   -47.448602
0.85918   -3.344028   -41.043604   -0.517079
-7.22E-06   -0.069600   -30.377796
1.00000   -3.344028   -41.043604   -0.517079
-7.22E-06   -0.273211   -13.921761

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.43671   11.960027   56.589516    0.837833
0.007121    0.923022  111.007071
0.57753   11.960027   56.589516    0.837833
0.007121    0.578187   88.564481
0.71836   11.960027   56.589516    0.837833
0.007121    0.233484   75.671450
0.85918   11.960027   56.589516    0.837833
0.007121    0.121492   85.405184
1.00000   11.960027   56.589516    0.837833
0.007121    0.413118  103.255687

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.43671   -4.724722  -127.639095   -0.734597
-0.005546   -0.818647  -133.229243
0.57753   -4.724722  -127.639095   -0.734597
-0.005546   -0.510707   -82.708921
0.71836   -4.724722  -127.639095   -0.734597
-0.005546   -0.202717   -52.103184
0.85918   -4.724722  -127.639095   -0.734597
-0.005546   -0.143068   -28.466457
1.00000   -4.724722  -127.639095   -0.734597
-0.005546   -0.492109   -15.583292
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	10.164924	82.309343	1.106949
0.005199	1.228612	162.828161	
0.57753	10.164924	82.309343	1.106949
0.005199	0.769000	129.370088	
0.71836	10.164924	82.309343	1.106949
0.005199	0.309500	102.582521	
0.85918	10.164924	82.309343	1.106949
0.005199	0.130043	92.361907	
1.00000	10.164924	82.309343	1.106949
0.005199	0.468690	90.929114	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-8.062217	-114.955180	-0.834137
-0.004065	-0.929985	-139.737495	
0.57753	-8.062217	-114.955180	-0.834137
-0.004065	-0.580317	-93.676095	
0.71836	-8.062217	-114.955180	-0.834137
-0.004065	-0.230568	-61.393997	
0.85918	-8.062217	-114.955180	-0.834137
-0.004065	-0.172805	-34.062236	
1.00000	-8.062217	-114.955180	-0.834137
-0.004065	-0.634122	-16.713996	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.716530	72.315558	1.197632
0.004310	1.331232	137.612865	
0.57753	9.716530	72.315558	1.197632
0.004310	0.832837	108.869045	
0.71836	9.716530	72.315558	1.197632
0.004310	0.334546	86.093269	
0.85918	9.716530	72.315558	1.197632
0.004310	0.135805	78.109430	
1.00000	9.716530	72.315558	1.197632
0.004310	0.497590	81.062298	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-8.837349	-108.366723	-0.884704
-0.004106	-0.985872	-134.400278	
0.57753	-8.837349	-108.366723	-0.884704
-0.004106	-0.615006	-95.714575	
0.71836	-8.837349	-108.366723	-0.884704
-0.004106	-0.244069	-69.333235	
0.85918	-8.837349	-108.366723	-0.884704
-0.004106	-0.182676	-47.045567	
1.00000	-8.837349	-108.366723	-0.884704
-0.004106	-0.682419	-33.148152	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	5.257474	3.007325	0.697750
6.38E-06	0.777334	4.082245	
0.57753	5.257474	3.007325	0.697750
6.38E-06	0.484767	4.047322	
0.71836	5.257474	3.007325	0.697750
6.38E-06	0.192337	4.629376	
0.85918	5.257474	3.007325	0.697750
6.38E-06	0.086642	10.382852	
1.00000	5.257474	3.007325	0.697750
6.38E-06	0.342877	19.644247	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.945333	-27.474983	-0.610689
-0.001266	-0.681099	-46.256746	
0.57753	-0.945333	-27.474983	-0.610689
-0.001266	-0.425042	-38.494350	
0.71836	-0.945333	-27.474983	-0.610689
-0.001266	-0.169040	-31.220314	
0.85918	-0.945333	-27.474983	-0.610689
-0.001266	-0.099366	-28.717469	
1.00000	-0.945333	-27.474983	-0.610689
-0.001266	-0.391790	-28.471981	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	6.719492	11.405912	1.239217
0.000113	1.380945	11.888410	
0.57753	6.719492	11.405912	1.239217
0.000113	0.861533	8.655051	
0.71836	6.719492	11.405912	1.239217
0.000113	0.342189	7.275203	
0.85918	6.719492	11.405912	1.239217
0.000113	0.146426	13.405809	
1.00000	6.719492	11.405912	1.239217
0.000113	0.578455	28.382175	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-4.087948	-50.591217	-1.030644
-0.002181	-1.149987	-88.865552	
0.57753	-4.087948	-50.591217	-1.030644
-0.002181	-0.717945	-73.580671	
0.71836	-4.087948	-50.591217	-1.030644
-0.002181	-0.285710	-58.453330	
0.85918	-4.087948	-50.591217	-1.030644
-0.002181	-0.176365	-51.522626	
1.00000	-4.087948	-50.591217	-1.030644
-0.002181	-0.695604	-49.761373	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	6.778070	47.080938	1.607313
1.44E-05	1.793292	106.207772	
0.57753	6.778070	47.080938	1.607313
1.44E-05	1.119368	88.777078	
0.71836	6.778070	47.080938	1.607313
1.44E-05	0.445654	72.671050	
0.85918	6.778070	47.080938	1.607313
1.44E-05	0.180351	62.826197	
1.00000	6.778070	47.080938	1.607313
1.44E-05	0.717876	62.189503	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-6.612144	-57.429370	-1.282362
-0.001852	-1.430990	-95.647061	
0.57753	-6.612144	-57.429370	-1.282362
-0.001852	-0.893067	-77.555385	
0.71836	-6.612144	-57.429370	-1.282362
-0.001852	-0.355258	-59.967404	
0.85918	-6.612144	-57.429370	-1.282362
-0.001852	-0.226625	-47.635035	
1.00000	-6.612144	-57.429370	-1.282362
-0.001852	-0.900130	-41.802717	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	10.601925	54.791529	1.901086
0.003295	2.114667	121.135769	
0.57753	10.601925	54.791529	1.901086
0.003295	1.320714	101.392183	
0.71836	10.601925	54.791529	1.901086
0.003295	0.526969	87.976387	
0.85918	10.601925	54.791529	1.901086
0.003295	0.232169	91.616981	
1.00000	10.601925	54.791529	1.901086
0.003295	0.880246	113.756956	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-7.316287	-110.063138	-1.557446
-0.004116	-1.734645	-129.880204	
0.57753	-7.316287	-110.063138	-1.557446
-0.004116	-1.082052	-89.723927	
0.71836	-7.316287	-110.063138	-1.557446
-0.004116	-0.429375	-59.386025	
0.85918	-7.316287	-110.063138	-1.557446
-0.004116	-0.280162	-40.407731	
1.00000	-7.316287	-110.063138	-1.557446
-0.004116	-1.076301	-39.256641	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	1.153010	16.700729	0.597294
7.68E-06	0.666933	27.577017	
0.57753	1.153010	16.700728	0.597294
7.68E-06	0.416566	21.415720	
0.71836	1.153010	16.700728	0.597294
7.68E-06	0.166172	15.874954	
0.85918	1.153010	16.700728	0.597294
7.68E-06	0.062397	11.336727	
1.00000	1.153010	16.700728	0.597294
7.68E-06	0.248857	12.055925	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-3.961443	-23.243027	-0.444739
-0.000699	-0.496815	-41.341869	
0.57753	-3.961443	-23.243027	-0.444739
-0.000699	-0.310385	-33.175995	
0.71836	-3.961443	-23.243027	-0.444739
-0.000699	-0.124132	-25.430546	
0.85918	-3.961443	-23.243027	-0.444739
-0.000699	-0.084116	-18.297381	
1.00000	-3.961443	-23.243027	-0.444739
-0.000699	-0.334442	-15.134629	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	5.259580	52.304180	1.172356
0.004131	1.297546	128.747718	
0.57753	5.259580	52.304180	1.172356
0.004131	0.810796	109.520956	
0.71836	5.259580	52.304180	1.172356
0.004131	0.324031	97.284439	
0.85918	5.259580	52.304180	1.172356
0.004131	0.140368	101.211777	
1.00000	5.259580	52.304180	1.172356
0.004131	0.499020	110.010873	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-6.322676	-80.168092	-0.874177
-0.004475	-0.972798	-75.157080	
0.57753	-6.322676	-80.168092	-0.874177
-0.004475	-0.606659	-64.776220	
0.71836	-6.322676	-80.168092	-0.874177
-0.004475	-0.241461	-28.431308	
0.85918	-6.322676	-80.168092	-0.874177
-0.004475	-0.184401	-18.402316	
1.00000	-6.322676	-80.168092	-0.874177
-0.004475	-0.674737	-12.649862	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	7.860492	49.308753	1.610151
0.003739	1.786021	117.745012	
0.57753	7.860492	49.308753	1.610151
0.003739	1.115362	100.150027	
0.71836	7.860492	49.308753	1.610151
0.003739	0.444730	89.495689	
0.85918	7.860492	49.308753	1.610151
0.003739	0.193659	95.015352	
1.00000	7.860492	49.308753	1.610151
0.003739	0.713438	111.288885	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-7.141945	-94.297760	-1.257480
-0.005018	-1.400549	-106.589888	
0.57753	-7.141945	-94.297760	-1.257480
-0.005018	-0.873712	-72.776176	
0.71836	-7.141945	-94.297760	-1.257480
-0.005018	-0.347839	-51.673506	
0.85918	-7.141945	-94.297760	-1.257480
-0.005018	-0.241493	-38.158222	
1.00000	-7.141945	-94.297760	-1.257480
-0.005018	-0.918731	-33.445482	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.635911	65.360838	1.978331
0.003241	2.203690	131.604221	
0.57753	9.635911	65.360838	1.978331
0.003241	1.376978	106.865159	
0.71836	9.635911	65.360838	1.978331
0.003241	0.550210	86.639551	
0.85918	9.635911	65.360838	1.978331
0.003241	0.242530	78.851620	
1.00000	9.635911	65.360838	1.978331
0.003241	0.926191	95.072149	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-8.888101	-107.132419	-1.640193
-0.003364	-1.826418	-135.274668	
0.57753	-8.888101	-107.132419	-1.640193
-0.003364	-1.138656	-95.016051	
0.71836	-8.888101	-107.132419	-1.640193
-0.003364	-0.451691	-62.534674	
0.85918	-8.888101	-107.132419	-1.640193
-0.003364	-0.287717	-36.686277	
1.00000	-8.888101	-107.132419	-1.640193
-0.003364	-1.116194	-36.083311	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	4.550715	47.893899	1.035130
0.001543	1.158061	60.454535	
0.57753	4.550715	47.893899	1.035130
0.001543	0.724009	40.630100	
0.71836	4.550715	47.893899	1.035130
0.001543	0.290215	21.117688	
0.85918	4.550715	47.893899	1.035130
0.001543	0.140851	5.023236	
1.00000	4.550715	47.893899	1.035130
0.001543	0.551159	2.336956	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-5.725971	-34.717033	-0.977359
-4.33E-06	-1.086724	-70.165562	
0.57753	-5.725971	-34.717033	-0.977359
-4.33E-06	-0.676856	-55.798084	
0.71836	-5.725971	-34.717033	-0.977359
-4.33E-06	-0.266710	-41.671752	
0.85918	-5.725971	-34.717033	-0.977359
-4.33E-06	-0.143693	-30.594170	
1.00000	-5.725971	-34.717033	-0.977359
-4.33E-06	-0.577759	-29.910638	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	10.804907	71.220192	1.630375
0.007575	1.807529	128.121108	
0.57753	10.804907	71.220192	1.630375
0.007575	1.130714	100.395062	
0.71836	10.804907	71.220192	1.630375
0.007575	0.454012	83.365635	
0.85918	10.804907	71.220192	1.630375
0.007575	0.235009	89.297815	
1.00000	10.804907	71.220192	1.630375
0.007575	0.836187	110.076945	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-7.484029	-117.376442	-1.458421
-0.005575	-1.618703	-119.363079	
0.57753	-7.484029	-117.376442	-1.458421
-0.005575	-1.008479	-72.079080	
0.71836	-7.484029	-117.376442	-1.458421
-0.005575	-0.397846	-44.661843	
0.85918	-7.484029	-117.376442	-1.458421
-0.005575	-0.255743	-28.402344	
1.00000	-7.484029	-117.376442	-1.458421
-0.005575	-0.807970	-27.770052	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.523954	87.775429	1.929296
0.005750	2.146268	166.388441	
0.57753	9.523954	87.775429	1.929296
0.005750	1.342297	132.049582	
0.71836	9.523954	87.775429	1.929296
0.005750	0.538462	105.454772	
0.85918	9.523954	87.775429	1.929296
0.005750	0.252027	96.161180	
1.00000	9.523954	87.775429	1.929296
0.005750	0.932276	102.720564	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-10.042180	-111.383742	-1.640394
-0.004252	-1.823732	-128.388544	
0.57753	-10.042180	-111.383742	-1.640394
-0.004252	-1.136485	-84.067837	
0.71836	-10.042180	-111.383742	-1.640394
-0.004252	-0.449548	-54.072129	
0.85918	-10.042180	-111.383742	-1.640394
-0.004252	-0.289461	-32.629226	
1.00000	-10.042180	-111.383742	-1.640394
-0.004252	-1.196850	-26.983943	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	9.817376	76.802837	2.070652
0.004778	2.304531	141.187427	
0.57753	9.817376	76.802837	2.070652
0.004778	1.440563	111.662179	
0.71836	9.817376	76.802837	2.070652
0.004778	0.576665	88.821507	
0.85918	9.817376	76.802837	2.070652
0.004778	0.263350	81.758498	
1.00000	9.817376	76.802837	2.070652
0.004778	0.988489	93.053949	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-10.424609	-111.303220	-1.744251
-0.004313	-1.940789	-142.747245	
0.57753	-10.424609	-111.303220	-1.744251
-0.004313	-1.209940	-100.271396	
0.71836	-10.424609	-111.303220	-1.744251
-0.004313	-0.479308	-69.778909	
0.85918	-10.424609	-111.303220	-1.744251
-0.004313	-0.306774	-47.292603	
1.00000	-10.424609	-111.303220	-1.744251
-0.004313	-1.173561	-41.769080	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	11.960027	82.309343	1.197632
0.007121	1.331232	162.828161	
0.57753	11.960027	82.309343	1.197632
0.007121	0.832837	129.370088	
0.71836	11.960027	82.309343	1.197632
0.007121	0.334546	102.582521	
0.85918	11.960027	82.309343	1.197632
0.007121	0.135805	101.036383	
1.00000	11.960027	82.309343	1.197632
0.007121	0.497590	107.415194	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-8.837349	-127.639095	-0.884704
-0.005546	-0.985872	-139.737495	
0.57753	-8.837349	-127.639095	-0.884704
-0.005546	-0.615006	-95.714575	
0.71836	-8.837349	-127.639095	-0.884704
-0.005546	-0.244069	-69.333235	
0.85918	-8.837349	-127.639095	-0.884704
-0.005546	-0.182676	-47.045567	
1.00000	-8.837349	-127.639095	-0.884704
-0.005546	-0.682419	-47.186041	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	10.804907	87.775429	2.070652
0.007575	2.304531	166.388441	
0.57753	10.804907	87.775429	2.070652
0.007575	1.440563	132.049582	
0.71836	10.804907	87.775429	2.070652
0.007575	0.576665	105.454772	
0.85918	10.804907	87.775429	2.070652
0.007575	0.263350	101.211777	
1.00000	10.804907	87.775429	2.070652
0.007575	0.988489	113.756956	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-10.424609	-117.376442	-1.744251
-0.005575	-1.940789	-142.747245	
0.57753	-10.424609	-117.376442	-1.744251
-0.005575	-1.209940	-100.271396	
0.71836	-10.424609	-117.376442	-1.744251
-0.005575	-0.479308	-69.778909	
0.85918	-10.424609	-117.376442	-1.744251
-0.005575	-0.306774	-51.522626	
1.00000	-10.424609	-117.376442	-1.744251
-0.005575	-1.173561	-49.761373	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	11.960027	87.775429	2.070652
0.007575	2.304531	166.388441	
0.57753	11.960027	87.775429	2.070652
0.007575	1.440563	132.049582	
0.71836	11.960027	87.775429	2.070652
0.007575	0.576665	105.454772	
0.85918	11.960027	87.775429	2.070652
0.007575	0.263350	101.211777	
1.00000	11.960027	87.775429	2.070652
0.007575	0.988489	113.756956	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-10.424609	-127.639095	-1.744251
-0.005575	-1.940789	-142.747245	
0.57753	-10.424609	-127.639095	-1.744251
-0.005575	-1.209940	-100.271396	
0.71836	-10.424609	-127.639095	-1.744251
-0.005575	-0.479308	-69.778909	
0.85918	-10.424609	-127.639095	-1.744251
-0.005575	-0.306774	-51.522626	
1.00000	-10.424609	-127.639095	-1.744251
-0.005575	-1.173561	-49.761373	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	11.960027	87.775429	2.070652
0.007575	2.304531	166.388441	
0.57753	11.960027	87.775429	2.070652
0.007575	1.440563	132.049582	
0.71836	11.960027	87.775429	2.070652
0.007575	0.576665	105.454772	
0.85918	11.960027	87.775429	2.070652
0.007575	0.263350	101.211777	
1.00000	11.960027	87.775429	2.070652
0.007575	0.988489	113.756956	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-10.424609	-127.639095	-1.744251
-0.005575	-1.940789	-142.747245	
0.57753	-10.424609	-127.639095	-1.744251
-0.005575	-1.209940	-100.271396	
0.71836	-10.424609	-127.639095	-1.744251
-0.005575	-0.479308	-69.778909	
0.85918	-10.424609	-127.639095	-1.744251
-0.005575	-0.306774	-51.522626	
1.00000	-10.424609	-127.639095	-1.744251
-0.005575	-1.173561	-49.761373	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 349 ========== LENGTH = 2.977728

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.698100	1.999998	0.367300
0.000172	0.202771	13.219755	
0.14086	2.698100	1.999998	0.367300
0.000172	0.048697	20.949888	
0.28171	2.698100	1.999998	0.367300
0.000172	0.090789	28.795493	
0.42257	2.698100	1.999998	0.367300
0.000172	0.225699	36.674729	
0.56343	2.698100	1.999998	0.367300
0.000172	0.360594	44.592328	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.678491	-18.923866	-0.321615
-0.000802	-0.176988	-25.608065	
0.14086	-0.678491	-18.923866	-0.321615
-0.000802	-0.044045	-26.283529	
0.28171	-0.678491	-18.923866	-0.321615
-0.000802	-0.105562	-26.985514	
0.42257	-0.678491	-18.923866	-0.321615
-0.000802	-0.259574	-27.708865	
0.56343	-0.678491	-18.923866	-0.321615
-0.000802	-0.413587	-28.483096	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.857120	12.305492	0.689630
0.000180	0.381360	20.859743	
0.14086	3.857120	12.305492	0.689630
0.000180	0.092217	32.639139	
0.28171	3.857120	12.305492	0.689630
0.000180	0.146454	45.407893	
0.42257	3.857120	12.305492	0.689630
0.000180	0.364953	58.955187	
0.56343	3.857120	12.305492	0.689630
0.000180	0.583416	73.060536	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.121053	-34.256758	-0.520853
-0.001630	-0.290427	-47.194203	
0.14086	-4.121053	-34.256758	-0.520853
-0.001630	-0.072406	-49.147612	
0.28171	-4.121053	-34.256758	-0.520853
-0.001630	-0.198080	-51.536655	
0.42257	-4.121053	-34.256758	-0.520853
-0.001630	-0.487064	-54.629072	
0.56343	-4.121053	-34.256758	-0.520853
-0.001630	-0.776063	-58.729031	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.959518	52.989150	0.973943

```
 6.00E-06     0.538338    47.242237
0.14086      3.959518    52.989150     0.973943
 6.00E-06     0.129922    50.205388
0.28171      3.959518    52.989150     0.973943
 6.00E-06     0.126656    50.220820
0.42257      3.959518    52.989150     0.973943
 6.00E-06     0.456383    71.879669
0.56343      3.959518    52.989150     0.973943
 6.00E-06     0.730015    84.092148

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -6.830894  -41.580283   -0.652400
-0.001841   -0.364524  -38.761289
0.14086    -6.830894  -41.580283   -0.652400
-0.001841   -0.090759  -37.994906
0.28171    -6.830894  -41.580283   -0.652400
-0.001841   -0.279174  -53.094073
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3662

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
           T         M2         M3
0.42257    -6.830894  -41.580283   -0.652400
-0.001841   -0.687637  -73.471267
0.56343    -6.830894  -41.580283   -0.652400
-0.001841   -1.096100  -94.904700

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     6.966984   89.953733    1.133859
 0.003730    0.643150  107.447917
0.14086     6.966984   89.953733    1.133859
 0.003730    0.168210  108.271673
0.28171     6.966984   89.953733    1.133859
 0.003730    0.217866  114.773171
0.42257     6.966984   89.953733    1.133859
 0.003730    0.543607  132.692428
0.56343     6.966984   89.953733    1.133859
 0.003730    0.869257  157.919703

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -8.406338  -72.147672   -0.776414
-0.004752   -0.433348  -36.202087
0.14086    -8.406338  -72.147672   -0.776414
-0.004752   -0.117570  -39.352202
0.28171    -8.406338  -72.147672   -0.776414
-0.004752   -0.320322  -55.999883
0.42257    -8.406338  -72.147672   -0.776414
-0.004752   -0.791639  -76.689909
0.56343    -8.406338  -72.147672   -0.776414
-0.004752   -1.262999 -108.490335

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     1.009087   19.930377    0.388422
 9.21E-06    0.014662   10.075510
0.14086     1.009087   19.930377    0.388422
 9.21E-06    0.051890   12.348460
0.28171     1.009087   19.930377    0.388422
 9.21E-06    0.060042   15.931118
0.42257     1.009087   19.930377    0.388422
 9.21E-06    0.150971   21.953600
0.56343     1.009087   19.930377    0.388422
 9.21E-06    0.241874   28.821144

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -4.363674  -17.242663   -0.216730
-0.000731   -0.121724  -15.552666
0.14086    -4.363674  -17.242663   -0.216730
-0.000731   -0.030761  -19.059568
0.28171    -4.363674  -17.242663   -0.216730
-0.000731   -0.111318  -25.050348
0.42257    -4.363674  -17.242663   -0.216730
-0.000731   -0.274207  -32.301340
0.56343    -4.363674  -17.242663   -0.216730
-0.000731   -0.437116  -40.002306

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     2.224826  107.496015    0.791839
 0.004657    0.458582  107.706542
0.14086     2.224826  107.496015    0.791839
 0.004657    0.127272   80.614648
0.28171     2.224826  107.496015    0.791839
 0.004657    0.118298   61.007817
0.42257     2.224826  107.496015    0.791839
 0.004657    0.296627   56.974096
0.56343     2.224826  107.496015    0.791839
 0.004657    0.474852   62.930146

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -8.965983  -30.206397   -0.424929
-0.005491   -0.238057  -13.096169
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3663

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
           T         M2         M3
0.14086    -8.965983  -30.206397   -0.424929
-0.005491   -0.073467  -12.023020
0.28171    -8.965983  -30.206397   -0.424929
-0.005491   -0.122144  -28.829557
0.42257    -8.965983  -30.206397   -0.424929
-0.005491   -0.548471  -50.827055
0.56343    -8.965983  -30.206397   -0.424929
-0.005491   -0.874854  -87.938987

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     3.813752   98.793285    1.012224
 0.004209    0.577990  105.423607
0.14086     3.813752   98.793285    1.012224
 0.004209    0.154156   87.345644
0.28171     3.813752   98.793285    1.012224
 0.004209    0.174968   75.926544
0.42257     3.813752   98.793285    1.012224
 0.004209    0.437389   78.549420
0.56343     3.813752   98.793285    1.012224
 0.004209    0.699703   90.195957

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -9.510984  -42.270445   -0.625410
-0.005597   -0.349563  -32.584341
0.14086    -9.510984  -42.270445   -0.625410
-0.005597   -0.099516  -32.166693
0.28171    -9.510984  -42.270445   -0.625410
-0.005597   -0.286189  -48.345726
0.42257    -9.510984  -42.270445   -0.625410
-0.005597   -0.705497  -68.847101
0.56343    -9.510984  -42.270445   -0.625410
-0.005597   -1.124856 -103.034259

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     7.519495   91.366649    1.165061
 0.003470    0.658719   90.854935
0.14086     7.519495   91.366649    1.165061
 0.003470    0.170679   97.346960
0.28171     7.519495   91.366649    1.165061
 0.003470    0.229842  109.637635
0.42257     7.519495   91.366649    1.165061
 0.003470    0.573693  131.451115
0.56343     7.519495   91.366649    1.165061
 0.003470    0.917495  159.283844

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -9.228914  -78.346840   -0.819618
-0.003963   -0.457573  -33.727147
0.14086    -9.228914  -78.346840   -0.819618
-0.003963   -0.121798  -39.886802
0.28171    -9.228914  -78.346840   -0.819618
-0.003963   -0.328701  -59.950970
0.42257    -9.228914  -78.346840   -0.819618
-0.003963   -0.813879  -84.058559
0.56343    -9.228914  -78.346840   -0.819618
-0.003963   -1.299090 -117.396501

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     5.459619   32.830407    0.502155
 0.001359    0.282039    1.983940
0.14086     5.459619   32.830407    0.502155
 0.001359    0.071475    5.806772
0.28171     5.459619   32.830407    0.502155
 0.001359    0.143079   22.602930
0.42257     5.459619   32.830407    0.502155
 0.001359    0.356352   39.764636
0.56343     5.459619   32.830407    0.502155
 0.001359    0.569608   57.052762
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3664

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -3.363182  -41.473400   -0.508441
-2.01E-05   -0.283418  -13.935653
0.14086    -3.363182  -41.473400   -0.508441
-2.01E-05   -0.070105  -25.875676
0.28171    -3.363182  -41.473400   -0.508441
-2.01E-05   -0.139532  -38.748301
0.42257    -3.363182  -41.473400   -0.508441
-2.01E-05   -0.350010  -52.235202
0.56343    -3.363182  -41.473400   -0.508441
-2.01E-05   -0.560622  -65.879426

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     8.224299  114.580209    0.874746
 0.007146    0.513571  103.613316
0.14086     8.224299  114.580209    0.874746
 0.007146    0.147640   89.757720
0.28171     8.224299  114.580209    0.874746
 0.007146    0.203314   85.857717
0.42257     8.224299  114.580209    0.874746
 0.007146    0.506345   98.513034
0.56343     8.224299  114.580209    0.874746
 0.007146    0.809326  123.706435

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -7.574815  -65.664838   -0.722360
-0.005543   -0.402592  -15.554389
0.14086    -7.574815  -65.664838   -0.722360
-0.005543   -0.116173  -30.186482
0.28171    -7.574815  -65.664838   -0.722360
-0.005543   -0.240275  -45.680048
0.42257    -7.574815  -65.664838   -0.722360
-0.005543   -0.599941  -66.395486
0.56343    -7.574815  -65.664838   -0.722360
-0.005543   -0.959825 -105.236252

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     7.604473  121.638073    1.124756
 0.005199    0.643766   91.167320
0.14086     7.604473  121.638073    1.124756
 0.005199    0.172763   83.984584
0.28171     7.604473  121.638073    1.124756
 0.005199    0.232812   86.842368
0.42257     7.604473  121.638073    1.124756
 0.005199    0.581497  102.836913
0.56343     7.604473  121.638073    1.124756
 0.005199    0.930078  127.253356

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -9.980656  -72.560122   -0.831084
-0.004445   -0.464260  -16.685332
0.14086    -9.980656  -72.560122   -0.831084
-0.004445   -0.126942  -27.445915
0.28171    -9.980656  -72.560122   -0.831084
-0.004445   -0.313784  -55.522540
0.42257    -9.980656  -72.560122   -0.831084
-0.004445   -0.780567  -87.536965
0.56343    -9.980656  -72.560122   -0.831084
-0.004445   -1.247507 -132.086520

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     7.594124  104.744643    1.195917
 0.004308    0.678935   81.268278
0.14086     7.594124  104.744643    1.195917
 0.004308    0.177990   80.334060
0.28171     7.594124  104.744643    1.195917
 0.004308    0.246297   88.053508
0.42257     7.594124  104.744643    1.195917
 0.004308    0.614815  106.760558
0.56343     7.594124  104.744643    1.195917
 0.004308    0.983242  132.465816
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3665

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -10.416385  -73.247983   -0.878401
-0.004238   -0.490472  -33.127615
0.14086   -10.416385  -73.247983   -0.878401
-0.004238   -0.131330  -42.773277
0.28171   -10.416385  -73.247983   -0.878401
-0.004238   -0.336003  -66.382909
0.42257   -10.416385  -73.247983   -0.878401
-0.004238   -0.833487  -93.948601
0.56343   -10.416385  -73.247983   -0.878401
-0.004238   -1.331100 -132.126751

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     5.216027    3.035945    0.671294
0.000142    0.371239   19.659701
0.14086     5.216027    3.035945    0.671294
0.000142    0.089627   29.848826
0.28171     5.216027    3.035945    0.671294
0.000142    0.171404   40.207843
0.42257     5.216027    3.035945    0.671294
0.000142    0.428443   50.939133
0.56343     5.216027    3.035945    0.671294
0.000142    0.685490   61.889589

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -0.939410  -27.220074   -0.612732
-0.000842   -0.342469  -28.476821
0.14086    -0.939410  -27.220074   -0.612732
-0.000842   -0.085255  -28.467161
0.28171    -0.939410  -27.220074   -0.612732
-0.000842   -0.190997  -28.609057
0.42257    -0.939410  -27.220074   -0.612732
-0.000842   -0.472580  -29.136899
0.56343    -0.939410  -27.220074   -0.612732
-0.000842   -0.754247  -29.948721

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     6.588557   12.217234    1.181484
 0.000109    0.653072   28.411782
0.14086     6.588557   12.217234    1.181484
 0.000109    0.157682   45.359981
0.28171     6.588557   12.217234    1.181484
 0.000109    0.291902   63.551405
0.42257     6.588557   12.217234    1.181484
 0.000109    0.731602   82.797394
0.56343     6.588557   12.217234    1.181484
 0.000109    1.171179  102.600609

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -4.133249  -49.099556   -1.047998
-0.001646   -0.587424  -49.769148
0.14086    -4.133249  -49.099556   -1.047998
-0.001646   -0.147752  -49.963406
0.28171    -4.133249  -49.099556   -1.047998
-0.001646   -0.336969  -51.391986
0.42257    -4.133249  -49.099556   -1.047998
-0.001646   -0.832445  -54.482262
0.56343    -4.133249  -49.099556   -1.047998
-0.001646   -1.327998  -58.714350

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     6.717755   46.374136    1.541915
 8.30E-06    0.851947   62.217912
0.14086     6.717755   46.374136    1.541915
 8.30E-06    0.205431   70.475571
0.28171     6.717755   46.374136    1.541915
 8.30E-06    0.456006  123.392283
0.42257     6.717755   46.374136    1.541915
 8.30E-06    1.009924  105.906552
0.56343     6.717755   46.374136    1.541915
 8.30E-06    1.457519  126.608082
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3666

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -6.572360  -57.068347   -1.304792
-0.001814   -0.730287  -41.806582
0.14086    -6.572360  -57.068347   -1.304792
-0.001814   -0.182257  -40.498777
0.28171    -6.572360  -57.068347   -1.304792
-0.001814   -0.439868  -51.395904
0.42257    -6.572360  -57.068347   -1.304792
-0.001814   -1.086555  -68.462617
0.56343    -6.572360  -57.068347   -1.304792
-0.001814   -1.733479  -86.548468

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     8.824687   80.712317    1.855144
 0.002952    1.040528  113.807169
0.14086     8.824687   80.712317    1.855144
 0.002952    0.263136  120.730485
0.28171     8.824687   80.712317    1.855144
 0.002952    0.434523  134.329261
0.42257     8.824687   80.712317    1.855144
 0.002952    1.087973  158.511921
0.56343     8.824687   80.712317    1.855144
 0.002952    1.741681  189.093174

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -8.735550  -81.946232   -1.558710
-0.004122   -0.877096  -39.247192
0.14086    -8.735550  -81.946232   -1.558710
-0.004122   -0.227971  -42.823753
0.28171    -8.735550  -81.946232   -1.558710
-0.004122   -0.525180  -57.081612
0.42257    -8.735550  -81.946232   -1.558710
-0.004122   -1.300221  -76.822033
0.56343    -8.735550  -81.946232   -1.558710
-0.004122   -2.075140 -108.454466

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     1.137673   16.423606    0.565881
 5.45E-06    0.312407   12.067510
0.14086     1.137673   16.423606    0.565881
 5.45E-06    0.075256   17.489608
0.28171     1.137673   16.423606    0.565881
 5.45E-06    0.128294   24.869764
0.42257     1.137673   16.423606    0.565881
 5.45E-06    0.322666   33.699858
0.56343     1.137673   16.423606    0.565881
 5.45E-06    0.517271   42.993469

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -3.958278  -23.110649   -0.463881
-0.000738   -0.261005  -15.135562
0.14086    -3.958278  -23.110649   -0.463881
-0.000738   -0.066314  -17.339353
0.28171    -3.958278  -23.110649   -0.463881
-0.000738   -0.162093  -21.936580
0.42257    -3.958278  -23.110649   -0.463881
-0.000738   -0.399426  -27.648136
0.56343    -3.958278  -23.110649   -0.463881
-0.000738   -0.636785  -33.927400

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     2.559702   91.860861    1.134051
 0.003979    0.646828  110.072128
0.14086     2.559702   91.860861    1.134051
 0.003979    0.172228   89.235712
0.28171     2.559702   91.860861    1.134051
 0.003979    0.245959   76.974883
0.42257     2.559702   91.860861    1.134051
 0.003979    0.617709   78.860548
0.56343     2.559702   91.860861    1.134051
 0.003979    0.990274   89.631484
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3667

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -8.475584  -36.990935   -0.889062
-0.004980   -0.507633  -12.642791
0.14086    -8.475584  -36.990935   -0.889062
-0.004980   -0.142628  -11.474133
0.28171    -8.475584  -36.990935   -0.889062
-0.004980   -0.320438  -25.002433
0.42257    -8.475584  -36.990935   -0.889062
-0.004980   -0.791294  -43.778413
0.56343    -8.475584  -36.990935   -0.889062
-0.004980   -1.262029  -80.003714

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     5.389562   85.092448    1.550015
 0.003601    0.874476  111.357230
0.14086     5.389562   85.092448    1.550015
 0.003601    0.225420  100.768359
0.28171     5.389562   85.092448    1.550015
 0.003601    0.354509   98.381862
0.42257     5.389562   85.092448    1.550015
 0.003601    0.889483  108.854850
0.56343     5.389562   85.092448    1.550015
 0.003601    1.425231  127.624076

COMB DL-G2-3 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -9.081038  -55.089668   -1.277851
-0.005181   -0.724460  -33.443718
0.14086    -9.081038  -55.089668   -1.277851
-0.005181   -0.195576  -32.411426
0.28171    -9.081038  -55.089668   -1.277851
-0.005181   -0.439353  -45.374915
0.42257    -9.081038  -55.089668   -1.277851
-0.005181   -1.085090  -62.918633
0.56343    -9.081038  -55.089668   -1.277851
-0.005181   -1.730767  -96.310296

COMB DL-G2-4 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     8.179709   86.848814    1.945246
 0.002900    1.089683   95.109061
0.14086     8.179709   86.848814    1.945246
 0.002900    0.274596  105.572017
0.28171     8.179709   86.848814    1.945246
 0.002900    0.456006  123.392283
0.42257     8.179709   86.848814    1.945246
 0.002900    1.140977  149.912231
0.56343     8.179709   86.848814    1.945246
 0.002900    1.826479  181.717556

COMB DL-G2-4 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -10.075088  -83.987184   -1.633958
-0.003495   -0.917447  -36.066120
0.14086   -10.075088  -83.987184   -1.633958
-0.003495   -0.235843  -44.522378
0.28171   -10.075088  -83.987184   -1.633958
-0.003495   -0.549970  -65.162319
0.42257   -10.075088  -83.987184   -1.633958
-0.003495   -1.363329  -90.005047
0.56343   -10.075088  -83.987184   -1.633958
-0.003495   -2.176584 -124.662467

COMB DL-G3-1 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     4.591137   48.029345    1.061868
 0.001422    0.593818    2.336332
0.14086     4.591137   48.029345    1.061868
 0.001422    0.148348    6.006986
0.28171     4.591137   48.029345    1.061868
 0.001422    0.264316   19.508310
0.42257     4.591137   48.029345    1.061868
 0.001422    0.657832   33.778058
0.56343     4.591137   48.029345    1.061868
 0.001422    1.050976   48.253810
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                3668

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000    -5.765545  -35.077029   -0.936994
-1.55E-05   -0.520047  -29.990558
0.14086    -5.765545  -35.077029   -0.936994
-1.55E-05   -0.126400  -43.599716
0.28171    -5.765545  -35.077029   -0.936994
-1.55E-05   -0.297118  -62.316970
0.42257    -5.765545  -35.077029   -0.936994
-1.55E-05   -0.742529  -82.030523
0.56343    -5.765545  -35.077029   -0.936994
-1.55E-05   -1.187972 -101.942025

COMB DL-G3-2 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     7.051058  128.336456    1.661430
 0.007171    0.954576  110.144078
0.14086     7.051058  128.336456    1.661430
 0.007171    0.259305   94.022492
0.28171     7.051058  128.336456    1.661430
 0.007171    0.394960   85.053065
0.42257     7.051058  128.336456    1.661430
 0.007171    0.983612   93.659665
0.56343     7.051058  128.336456    1.661430
 0.007171    1.571683  114.531872

COMB DL-G3-2 ------------------ MIN

REL DIST          P          V2          V3
           T         M2         M3
0.00000   -10.619814  -56.799052   -1.404621
-0.005774   -0.794658  -27.740360
0.14086   -10.619814  -56.799052   -1.404621
-0.005774   -0.215729  -46.432829
0.28171   -10.619814  -56.799052   -1.404621
-0.005774   -0.462697  -68.753041
0.42257   -10.619814  -56.799052   -1.404621
-0.005774   -1.152708  -95.898839
0.56343   -10.619814  -56.799052   -1.404621
-0.005774   -1.842708 -147.220835

COMB DL-G3-3 ------------------ MAX

REL DIST          P          V2          V3
           T         M2         M3
0.00000     6.819795  128.668349    1.937379
 0.005429    1.098416  102.775969
0.14086     6.819795  128.668349    1.937379
 0.005429    0.287312   92.842548
```

0.28171 6.819795 128.668349 1.937379
0.005429 0.450126 94.406600
0.42257 6.819795 128.668349 1.937379
0.005429 1.124549 109.546551
0.56343 6.819795 128.668349 1.937379
0.005429 1.799085 133.811897

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.294225 -67.770788 -1.609109
-0.004719 -0.906251 -26.955955
0.14086 -12.294225 -67.770788 -1.609109
-0.004719 -0.238718 -42.307763
0.28171 -12.294225 -67.770788 -1.609109
-0.004719 -0.543720 -73.289355
0.42257 -12.294225 -67.770788 -1.609109
-0.004719 -1.353116 -107.385602
0.56343 -12.294225 -67.770788 -1.609109
-0.004719 -2.159046 -159.127992

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.552718 110.616115 2.051895
0.004510 1.156575 93.111434
0.14086 7.552718 110.616115 2.051895
0.004510 0.297089 91.778224
0.28171 7.552718 110.616115 2.051895
0.004510 0.482617 100.445901
0.42257 7.552718 110.616115 2.051895
0.004510 1.206795 120.604313
0.56343 7.552718 110.616115 2.051895
0.004510 1.931114 148.410840
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3669

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.284220 -75.012132 -1.727525
-0.004511 -0.972025 -41.749064
0.14086 -12.284220 -75.012132 -1.727525
-0.004511 -0.253497 -54.508268
0.28171 -12.284220 -75.012132 -1.727525
-0.004511 -0.578280 -80.749118
0.42257 -12.284220 -75.012132 -1.727525
-0.004511 -1.434701 -110.273284
0.56343 -12.284220 -75.012132 -1.727525
-0.004511 -2.291234 -154.636808

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.224299 121.638073 1.195917
0.007146 0.678935 107.706542
0.14086 8.224299 121.638073 1.195917
0.007146 0.177990 108.271673
0.28171 8.224299 121.638073 1.195917
0.007146 0.246297 114.773171
0.42257 8.224299 121.638073 1.195917
0.007146 0.614815 132.602428
0.56343 8.224299 121.638073 1.195917
0.007146 0.983242 159.283844

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.416385 -78.346840 -0.878401
-0.005597 -0.490472 -47.194203
0.14086 -10.416385 -78.346840 -0.878401
-0.005597 -0.131330 -49.147612
0.28171 -10.416385 -78.346840 -0.878401
-0.005597 -0.336003 -66.382909
0.42257 -10.416385 -78.346840 -0.878401
-0.005597 -0.833487 -93.948601
0.56343 -10.416385 -78.346840 -0.878401
-0.005597 -1.331100 -132.126751

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.824687 128.668349 2.051895
0.007171 1.156575 113.807169
0.14086 8.824687 128.668349 2.051895
0.007171 0.297089 120.730485
0.28171 8.824687 128.668349 2.051895
0.007171 0.482617 134.329261
0.42257 8.824687 128.668349 2.051895
0.007171 1.206795 158.511921
0.56343 8.824687 128.668349 2.051895
0.007171 1.931114 189.093174

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.294225 -83.987184 -1.727525
-0.005774 -0.972025 -49.769148
0.14086 -12.294225 -83.987184 -1.727525
-0.005774 -0.253497 -54.508268
0.28171 -12.294225 -83.987184 -1.727525
-0.005774 -0.578280 -80.749118
0.42257 -12.294225 -83.987184 -1.727525
-0.005774 -1.434701 -110.273284
0.56343 -12.294225 -83.987184 -1.727525
-0.005774 -2.291234 -159.127992

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.824687 128.668349 2.051895
0.007171 1.156575 113.807169
0.14086 8.824687 128.668349 2.051895
0.007171 0.297089 120.730485
0.28171 8.824687 128.668349 2.051895
0.007171 0.482617 134.329261
0.42257 8.824687 128.668349 2.051895
0.007171 1.206795 158.511921
0.56343 8.824687 128.668349 2.051895
0.007171 1.931114 189.093174
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3670

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.294225 -83.987184 -1.727525
-0.005774 -0.972025 -49.769148
0.14086 -12.294225 -83.987184 -1.727525
-0.005774 -0.253497 -54.508268
0.28171 -12.294225 -83.987184 -1.727525
-0.005774 -0.578280 -80.749118
0.42257 -12.294225 -83.987184 -1.727525
-0.005774 -1.434701 -110.273284
0.56343 -12.294225 -83.987184 -1.727525
-0.005774 -2.291234 -159.127992

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.824687 128.668349 2.051895
0.007171 1.156575 113.807169
0.14086 8.824687 128.668349 2.051895
0.007171 0.297089 120.730485
0.28171 8.824687 128.668349 2.051895
0.007171 0.482617 134.329261
0.42257 8.824687 128.668349 2.051895
0.007171 1.206795 158.511921
0.56343 8.824687 128.668349 2.051895
0.007171 1.931114 189.093174

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.294225 -83.987184 -1.727525
-0.005774 -0.972025 -49.769148
0.14086 -12.294225 -83.987184 -1.727525
-0.005774 -0.253497 -54.508268
0.28171 -12.294225 -83.987184 -1.727525
-0.005774 -0.578280 -80.749118
0.42257 -12.294225 -83.987184 -1.727525
-0.005774 -1.434701 -110.273284
0.56343 -12.294225 -83.987184 -1.727525
-0.005774 -2.291234 -159.127992

ELEM 350 ========== LENGTH = 2.976757

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 3.194810 2.049541 0.375138
0.000556 0.404766 3.853389
0.57754 3.194810 2.049541 0.375138
0.000556 0.247512 3.779991
0.71836 3.194810 2.049541 0.375138
0.000556 0.090251 4.075352
0.85918 3.194810 2.049541 0.375138
0.000556 0.065369 5.214552
1.00000 3.194810 2.049541 0.375138
0.000556 0.214772 11.159923

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -0.929202 -22.849612 -0.356401
-0.001002 -0.382825 -27.726290
0.57754 -0.929202 -22.849612 -0.356401
-0.001002 -0.233426 -18.160100
0.71836 -0.929202 -22.849612 -0.356401
-0.001002 -0.084013 -14.600789
0.85918 -0.929202 -22.849612 -0.356401
-0.001002 0.066931 -12.161049
1.00000 -0.929202 -22.849612 -0.356401
-0.001002 -0.224267 -10.505400

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 7.207471 3.266306 0.720970
0.000922 0.777290 4.622519
0.57754 7.207471 3.266306 0.720970
0.000922 0.475069 4.147671
0.71836 7.207471 3.266306 0.720970
0.000922 0.172819 3.846560
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3671

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85918 7.207471 3.266306 0.720970
0.000922 0.110229 5.790903
1.00000 7.207471 3.266306 0.720970
0.000922 0.365018 18.277866

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -0.675889 -46.354840 -0.607942
-0.001868 -0.654354 -72.164337
0.57754 -0.675889 -46.354840 -0.607942
-0.001868 -0.399511 -53.624107
0.71836 -0.675889 -46.354840 -0.607942
-0.001868 -0.144634 -43.213183
0.85918 -0.675889 -46.354840 -0.607942
-0.001868 0.125910 -35.814415
1.00000 -0.675889 -46.354840 -0.607942
-0.001868 -0.432089 -29.322449

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 7.862683 18.117656 1.012633
0.000670 1.091811 42.053229
0.57754 7.862683 18.117656 1.012633
0.000670 0.667326 35.239221
0.71836 7.862683 18.117656 1.012633
0.000670 0.242818 28.606830
0.85918 7.862683 18.117656 1.012633
0.000670 0.147982 23.902753
1.00000 7.862683 18.117656 1.012633
0.000670 0.491966 31.079978

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -1.699237 -58.258645 -0.820294
-0.001634 -0.883468 -86.350550
0.57754 -1.699237 -58.258645 -0.820294
-0.001634 -0.539610 -62.459890
0.71836 -1.699237 -58.258645 -0.820294
-0.001634 -0.195659 -45.478110
0.85918 -1.699237 -58.258645 -0.820294
-0.001634 -0.181530 -31.044732
1.00000 -1.699237 -58.258645 -0.820294
-0.001634 -0.606157 -20.277917

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 9.775158 29.072316 1.148566
0.004128 1.238508 57.309511
0.57754 9.775158 29.072316 1.148566
0.004128 0.757058 46.870676
0.71836 9.775158 29.072316 1.148566
0.004128 0.275588 40.336766
0.85918 9.775158 29.072316 1.148566
0.004128 0.174879 51.895232
1.00000 9.775158 29.072316 1.148566
0.004128 0.569676 83.007019

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -3.632040 -114.379492 -0.949091
-0.003845 -1.021719 -125.233230
0.57754 -3.632040 -114.379492 -0.949091
-0.003845 -0.623871 -77.945226
0.71836 -3.632040 -114.379492 -0.949091
-0.003845 -0.225953 -44.789089
0.85918 -3.632040 -114.379492 -0.949091
-0.003845 -0.211703 -26.463827
1.00000 -3.632040 -114.379492 -0.949091
-0.003845 -0.696080 -21.060483

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 4.231526 2.013898 0.412973
0.000110 0.444950 3.242189
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3672

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57754 4.231526 2.013898 0.412973
0.000110 0.271837 2.495841
0.71836 4.231526 2.013898 0.412973
0.000110 0.098713 2.149338
0.85918 4.231526 2.013898 0.412973
0.000110 0.052899 2.434115
1.00000 4.231526 2.013898 0.412973
0.000110 0.178300 6.768623

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -0.191941 -25.609940 -0.299060
-0.000724 -0.323153 -48.519610
0.57754 -0.191941 -25.609940 -0.299060
-0.000724 -0.197790 -38.803410
0.71836 -0.191941 -25.609940 -0.299060
-0.000724 -0.072395 -30.012001
0.85918 -0.191941 -25.609940 -0.299060
-0.000724 -0.074438 -23.626569
1.00000 -0.191941 -25.609940 -0.299060
-0.000724 -0.247538 -18.172039

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 7.708298 21.939673 0.807067
0.004325 0.869962 51.161838
0.57754 7.708298 21.939673 0.807067
0.004325 0.531648 43.412269
0.71836 7.708298 21.939673 0.807067
0.004325 0.193308 40.592434
0.85918 7.708298 21.939673 0.807067
0.004325 0.111903 58.291794
1.00000 7.708298 21.939673 0.807067
0.004325 0.359697 81.167738

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -2.194225 -94.315761 -0.601444
-0.003723 -0.648780 -98.975714
0.57754 -2.194225 -94.315761 -0.601444
-0.003723 -0.396661 -60.206117
0.71836 -2.194225 -94.315761 -0.601444
-0.003723 -0.144455 -33.446199
0.85918 -2.194225 -94.315761 -0.601444
-0.003723 -0.160980 -20.103143
1.00000 -2.194225 -94.315761 -0.601444
-0.003723 -0.495218 -11.563514

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 9.872469 21.039605 1.040424
0.004299 1.121599 47.354810
0.57754 9.872469 21.039605 1.040424
0.004299 0.685465 40.272343
0.71836 9.872469 21.039605 1.040424
0.004299 0.249305 37.759451
0.85918 9.872469 21.039605 1.040424
0.004299 0.149382 53.700607
1.00000 9.872469 21.039605 1.040424
0.004299 0.483680 80.630857

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -2.229211 -104.061257 -0.806639
-0.004137 -0.868858 -112.846475
0.57754 -2.229211 -104.061257 -0.806639
-0.004137 -0.530723 -69.860613
0.71836 -2.229211 -104.061257 -0.806639
-0.004137 -0.192501 -42.978725
0.85918 -2.229211 -104.061257 -0.806639
-0.004137 -0.201186 -29.479255
1.00000 -2.229211 -104.061257 -0.806639
-0.004137 -0.633713 -20.160447
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3673

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 9.091919 39.811847 1.177521
0.003715 1.269820 72.274535
0.57754 9.091919 39.811847 1.177521
0.003715 0.776229 56.947148
0.71836 9.091919 39.811847 1.177521
0.003715 0.282621 44.936031
0.85918 9.091919 39.811847 1.177521
0.003715 0.181160 47.063489
1.00000 9.091919 39.811847 1.177521
0.003715 0.592817 69.857518

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -4.866537 -103.354870 -0.987813
-0.003291 -1.163496 -120.103927
0.57754 -4.866537 -103.354870 -0.987813
-0.003291 -0.649404 -77.283137
0.71836 -4.866537 -103.354870 -0.987813
-0.003291 -0.235242 -46.247096
0.85918 -4.866537 -103.354870 -0.987813
-0.003291 -0.220457 -24.588465
1.00000 -4.866537 -103.354870 -0.987813
-0.003291 -0.711728 -22.564230

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 0.966349 46.417052 0.514388
0.001253 0.553230 65.726069
0.57754 0.966349 46.417052 0.514388
0.001253 0.337604 46.320819
0.71836 0.966349 46.417052 0.514388
0.001253 0.121973 27.032185
0.85918 0.966349 46.417052 0.514388
0.001253 0.099266 8.201443
1.00000 0.966349 46.417052 0.514388
0.001253 0.327972 1.846798

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -5.572189 -6.013800 -0.545578
-0.000500 -0.586831 -19.052400
0.57754 -5.572189 -6.013800 -0.545578
-0.000500 -0.358131 -16.675032
0.71836 -5.572189 -6.013800 -0.545578
-0.000500 -0.129416 -14.623330
0.85918 -5.572189 -6.013800 -0.545578
-0.000500 -0.093655 -12.791131
1.00000 -5.572189 -6.013800 -0.545578
-0.000500 -0.309290 -13.865591

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 5.177718 64.114332 0.852550
0.006593 0.917713 106.334422
0.57754 5.177718 64.114332 0.852550
0.006593 0.560334 81.171075
0.71836 5.177718 64.114332 0.852550
0.006593 0.202945 61.640681
0.85918 5.177718 64.114332 0.852550
0.006593 0.155701 67.337104
1.00000 5.177718 64.114332 0.852550
0.006593 0.497055 84.411278

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -7.939245 -90.695729 -0.826948
-0.004350 -0.889538 -80.100964
0.57754 -7.939245 -90.695729 -0.826948
-0.004350 -0.542891 -42.483452
0.71836 -7.939245 -90.695729 -0.826948
-0.004350 -0.196207 -18.947377
0.85918 -7.939245 -90.695729 -0.826948
-0.004350 -0.173920 -11.769391
1.00000 -7.939245 -90.695729 -0.826948
-0.004350 -0.526307 -17.306275
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3674

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 6.748568 62.739718 1.122837
0.004824 1.209153 105.657296
0.57754 6.748568 62.739718 1.122837
0.004824 0.738472 80.654639
0.71836 6.748568 62.739718 1.122837
0.004824 0.267778 60.128645
0.85918 6.748568 62.739718 1.122837
0.004824 0.185433 57.601513
1.00000 6.748568 62.739718 1.122837
0.004824 0.603700 68.295218

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -7.297438 -89.656735 -1.006227
-0.003419 -1.083499 -99.596416
0.57754 -7.297438 -89.656735 -1.006227
-0.003419 -0.661699 -62.425222
0.71836 -7.297438 -89.656735 -1.006227
-0.003419 -0.239807 -35.062367
0.85918 -7.297438 -89.656735 -1.006227
-0.003419 -0.216227 -18.743616
1.00000 -7.297438 -89.656735 -1.006227
-0.003419 -0.683523 -15.937470

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 8.583742 53.547988 1.212283
0.004274 1.305630 90.377957
0.57754 8.583742 53.547988 1.212283
0.004274 0.797454 69.272110
0.71836 8.583742 53.547988 1.212283
0.004274 0.289253 51.719183
0.85918 8.583742 53.547988 1.212283
0.004274 0.193056 49.178276
1.00000 8.583742 53.547988 1.212283
0.004274 0.630929 61.949334

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -6.306250 -91.562849 -1.051519
-0.003489 -1.132214 -110.877327
0.57754 -6.306250 -91.562849 -1.051519
-0.003489 -0.691428 -73.215383
0.71836 -6.306250 -91.562849 -1.051519
-0.003489 -0.250600 -47.363549
0.85918 -6.306250 -91.562849 -1.051519
-0.003489 -0.229895 -30.991849
1.00000 -6.306250 -91.562849 -1.051519
-0.003489 -0.735316 -26.140690

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 5.624548 3.157930 0.716408
0.000568 0.771044 6.846161
0.57754 5.624548 3.157930 0.716408
0.000568 0.470660 5.982794
0.71836 5.624548 3.157930 0.716408
0.000568 0.170327 5.380023
0.85918 5.624548 3.157930 0.716408
0.000568 0.136742 7.395447
1.00000 5.624548 3.157930 0.716408
0.000568 0.454040 17.605877

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -1.139360 -37.459426 -0.756678
-0.001072 -0.814656 -53.881385
0.57754 -1.139360 -37.459426 -0.756678
-0.001072 -0.497491 -38.415965
0.71836 -1.139360 -37.459426 -0.756678
-0.001072 -0.180105 -25.322532
0.85918 -1.139360 -37.459426 -0.756678
-0.001072 -0.128771 -15.149553
1.00000 -1.139360 -37.459426 -0.756678
-0.001072 -0.429157 -11.674112
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3675

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 12.623127 4.491267 1.291728
0.000855 1.389646 8.003917
0.57754 12.623127 4.491267 1.291728
0.000855 0.847908 6.796395
0.71836 12.623127 4.491267 1.291728
0.000855 0.306509 6.110465
0.85918 12.623127 4.491267 1.291728
0.000855 0.231481 8.285879
1.00000 12.623127 4.491267 1.291728
0.000855 0.771003 26.303973

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -1.227634 -78.168030 -1.286861
-0.001889 -1.386863 -131.668842
0.57754 -1.227634 -78.168030 -1.286861
-0.001889 -0.847399 -99.345741
0.71836 -1.227634 -78.168030 -1.286861
-0.001889 -0.307813 -69.924268
0.85918 -1.227634 -78.168030 -1.286861
-0.001889 -0.233832 -43.864757
1.00000 -1.227634 -78.168030 -1.286861
-0.001889 -0.775095 -30.302336

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 13.234044 17.587145 1.671962
0.000680 1.799401 40.723417
0.57754 13.234044 17.587145 1.671962
0.000680 1.098391 34.234068

0.71836 13.234044 17.587145 1.671962
0.000680 0.397679 29.121354
0.85918 13.234044 17.587145 1.671962
0.000680 0.294318 26.500141
1.00000 13.234044 17.587145 1.671962
0.000680 0.982561 47.000218

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -2.207359 -93.991813 -1.642038
-0.001665 -1.769384 -141.626486
0.57754 -2.207359 -93.991813 -1.642038
-0.001665 -1.080720 -102.941277
0.71836 -2.207359 -93.991813 -1.642038
-0.001665 -0.392302 -67.630709
0.85918 -2.207359 -93.991813 -1.642038
-0.001665 -0.001542 -37.269163
1.00000 -2.207359 -93.991813 -1.642038
-0.001665 -1.002292 -22.773118

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 13.727973 35.275308 1.972486
0.003460 2.121999 69.984337
0.57754 13.727973 35.275308 1.972486
0.003460 1.295084 56.626031
0.71836 13.727973 35.275308 1.972486
0.003460 0.469292 48.131884
0.85918 13.727973 35.275308 1.972486
0.003460 0.356087 57.026005
1.00000 13.727973 35.275308 1.972486
0.003460 1.169599 90.425103

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -5.261980 -134.400323 -1.950115
-0.003231 -2.098681 -165.057166
0.57754 -5.261980 -134.400323 -1.950115
-0.003231 -1.280709 -109.847453
0.71836 -5.261980 -134.400323 -1.950115
-0.003231 -0.464019 -63.129046
0.85918 -5.261980 -134.400323 -1.950115
-0.003231 -0.366388 -31.775034
1.00000 -5.261980 -134.400323 -1.950115
-0.003231 -1.191684 -23.382613
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3676
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 7.049186 2.413308 0.633265
8.45E-05 0.681345 3.992219
0.57754 7.049186 2.413308 0.633265
8.45E-05 0.415875 3.075783
0.71836 7.049186 2.413308 0.633265
8.45E-05 0.150436 2.236487
0.85918 7.049186 2.413308 0.633265
8.45E-05 0.103400 2.556310
1.00000 7.049186 2.413308 0.633265
8.45E-05 0.346478 10.160515

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -0.306325 -42.925687 -0.580063
-0.000672 -0.626160 -77.806524
0.57754 -0.306325 -42.925687 -0.580063
-0.000672 -0.382993 -60.067687
0.71836 -0.306325 -42.925687 -0.580063
-0.000672 -0.139963 -42.910910
0.85918 -0.306325 -42.925687 -0.580063
-0.000672 -0.114842 -27.188905
1.00000 -0.306325 -42.925687 -0.580063
-0.000672 -0.380345 -17.345515

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 10.209537 20.325965 1.220483
0.003708 1.310562 48.095622
0.57754 10.209537 20.325965 1.220483
0.003708 0.799111 41.005508
0.71836 10.209537 20.325965 1.220483
0.003708 0.287307 39.742821
0.85918 10.209537 20.325965 1.220483
0.003708 0.213084 58.482217
1.00000 10.209537 20.325965 1.220483
0.003708 0.687804 86.816841

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -2.509703 -109.168443 -1.147913
-0.003024 -1.235330 -121.904341
0.57754 -2.509703 -109.168443 -1.147913
-0.003024 -0.753645 -77.316343
0.71836 -2.509703 -109.168443 -1.147913
-0.003024 -0.274106 -41.872195
0.85918 -2.509703 -109.168443 -1.147913
-0.003024 -0.237576 -22.212153
1.00000 -2.509703 -109.168443 -1.147913
-0.003024 -0.747175 -11.902990

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 14.663973 20.151495 1.675945
0.003742 1.809701 46.280931
0.57754 14.663973 20.151495 1.675945
0.003742 1.098254 39.343836
0.71836 14.663973 20.151495 1.675945
0.003742 0.397149 37.654792
0.85918 14.663973 20.151495 1.675945
0.003742 0.296205 54.469235
1.00000 14.663973 20.151495 1.675945
0.003742 0.966028 89.113207

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -2.685515 -131.751187 -1.611898
-0.003561 -1.735277 -160.956179
0.57754 -2.685515 -131.751187 -1.611898
-0.003561 -1.059113 -106.856802
0.71836 -2.685515 -131.751187 -1.611898
-0.003561 -0.384957 -63.040764
0.85918 -2.685515 -131.751187 -1.611898
-0.003561 -0.318131 -34.405442
1.00000 -2.685515 -131.751187 -1.611898
-0.003561 -1.018715 -21.138595
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3677
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 12.887874 53.250419 2.060792
0.003217 2.218320 92.336488
0.57754 12.887874 53.250419 2.060792
0.003217 1.354495 71.299783
0.71836 12.887874 53.250419 2.060792
0.003217 0.491502 53.832582
0.85918 12.887874 53.250419 2.060792
0.003217 0.369715 49.513598
1.00000 12.887874 53.250419 2.060792
0.003217 1.216740 74.651189

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -7.235623 -122.561674 -2.028536
-0.002801 -2.182818 -156.059641
0.57754 -7.235623 -122.561674 -2.028536
-0.002801 -1.331896 -105.580645
0.71836 -7.235623 -122.561674 -2.028536
-0.002801 -0.482318 -62.070472
0.85918 -7.235623 -122.561674 -2.028536
-0.002801 -0.379569 -29.400769
1.00000 -7.235623 -122.561674 -2.028536
-0.002801 -1.242341 -25.871503

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 1.067407 79.137278 1.089063
0.001354 1.175271 106.019417
0.57754 1.067407 79.137278 1.089063
0.001354 0.718642 73.047568
0.71836 1.067407 79.137278 1.089063
0.001354 0.262129 40.302701
0.85918 1.067407 79.137278 1.089063
0.001354 0.204855 9.190062
1.00000 1.067407 79.137278 1.089063
0.001354 0.678014 2.386759

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -9.532984 -7.873579 -1.127015
-0.000501 -1.210840 -18.965340
0.57754 -9.532984 -7.873579 -1.127015
-0.000501 -0.738310 -15.878959
0.71836 -9.532984 -7.873579 -1.127015
-0.000501 -0.265321 -12.969719
0.85918 -9.532984 -7.873579 -1.127015
-0.000501 -0.194349 -11.517195
1.00000 -9.532984 -7.873579 -1.127015
-0.000501 -0.650783 -31.253287

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 5.378940 97.130893 1.697831
0.006711 1.826417 149.884719
0.57754 5.378940 97.130893 1.697831
0.006711 1.114712 110.757021
0.71836 5.378940 97.130893 1.697831
0.006711 0.405036 79.114872
0.85918 5.378940 97.130893 1.697831
0.006711 0.325005 73.134516
1.00000 5.378940 97.130893 1.697831
0.006711 1.041932 92.932007

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -12.457049 -93.482285 -1.729007
-0.004057 -1.855801 -130.481013
0.57754 -12.457049 -93.482285 -1.729007
-0.004057 -1.130929 -42.700897
0.71836 -12.457049 -93.482285 -1.729007
-0.004057 -0.407224 -16.948897
0.85918 -12.457049 -93.482285 -1.729007
-0.004057 -0.328471 -10.978703
1.00000 -12.457049 -93.482285 -1.729007
-0.004057 -1.037169 -32.025657
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3678
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 8.437969 90.741283 2.013921
0.005109 2.167868 140.107246
0.57754 8.437969 90.741283 2.013921
0.005109 1.323711 103.333906
0.71836 8.437969 90.741283 2.013921
0.005109 0.480979 72.405638
0.85918 8.437969 90.741283 2.013921
0.005109 0.369803 62.747652
1.00000 8.437969 90.741283 2.013921
0.005109 1.204392 81.818570

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -11.377808 -104.286476 -2.004492
-0.003293 -2.154411 -110.781145
0.57754 -11.377808 -104.286476 -2.004492
-0.003293 -1.377767 -68.413666
0.71836 -11.377808 -104.286476 -2.004492
-0.003293 -0.474514 -34.652410
0.85918 -11.377808 -104.286476 -2.004492
-0.003293 -0.378822 -17.637771
1.00000 -11.377808 -104.286476 -2.004492
-0.003293 -1.220983 -29.865545

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 12.573282 77.171869 2.166445
0.004501 2.331474 119.884720
0.57754 12.573282 77.171869 2.166445
0.004501 1.423383 88.564497
0.71836 12.573282 77.171869 2.166445
0.004501 0.516523 62.325183
0.85918 12.573282 77.171869 2.166445
0.004501 0.391721 53.772412
1.00000 12.573282 77.171869 2.166445
0.004501 1.282503 75.467797

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -9.816093 -118.206199 -2.136263
-0.003420 -2.297581 -148.192883
0.57754 -9.816093 -118.206199 -2.136263
-0.003420 -1.401781 -99.693289
0.71836 -9.816093 -118.206199 -2.136263
-0.003420 -0.507090 -60.131081
0.85918 -9.816093 -118.206199 -2.136263
-0.003420 -0.404037 -34.362708
1.00000 -9.816093 -118.206199 -2.136263
-0.003420 -1.310442 -37.594266

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 9.872469 64.114332 1.212283
0.006593 1.305630 106.334422
0.57754 9.872469 64.114332 1.212283
0.006593 0.797454 81.171075
0.71836 9.872469 64.114332 1.212283
0.006593 0.289253 61.640681
0.85918 9.872469 64.114332 1.212283
0.006593 0.193056 67.337104
1.00000 9.872469 64.114332 1.212283
0.006593 0.630929 84.411278

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -7.939245 -114.379492 -1.051519
-0.004350 -1.132214 -125.333230
0.57754 -7.939245 -114.379492 -1.051519
-0.004350 -0.691428 -77.945226
0.71836 -7.939245 -114.379492 -1.051519
-0.004350 -0.250600 -47.363549
0.85918 -7.939245 -114.379492 -1.051519
-0.004350 -0.229895 -35.814165
1.00000 -7.939245 -114.379492 -1.051519
-0.004350 -0.735316 -29.322449
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3679
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 14.663973 97.130893 2.166445
0.006711 2.331474 149.884719
0.57754 14.663973 97.130893 2.166445
0.006711 1.423383 110.757021
0.71836 14.663973 97.130893 2.166445
0.006711 0.516523 79.114872
0.85918 14.663973 97.130893 2.166445
0.006711 0.391721 73.134516
1.00000 14.663973 97.130893 2.166445
0.006711 1.282503 92.932007

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -12.457049 -134.400323 -2.136263
-0.004057 -2.297581 -165.057166
0.57754 -12.457049 -134.400323 -2.136263
-0.004057 -1.401781 -109.847453
0.71836 -12.457049 -134.400323 -2.136263
-0.004057 -0.507090 -69.924268
0.85918 -12.457049 -134.400323 -2.136263
-0.004057 -0.404037 -43.864757
1.00000 -12.457049 -134.400323 -2.136263
-0.004057 -1.310442 -37.594266

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 14.663973 97.130893 2.166445
0.006711 2.331474 149.884719
0.57754 14.663973 97.130893 2.166445
0.006711 1.423383 110.757021
0.71836 14.663973 97.130893 2.166445
0.006711 0.516523 79.114872
0.85918 14.663973 97.130893 2.166445
0.006711 0.391721 73.134516
1.00000 14.663973 97.130893 2.166445
0.006711 1.282503 92.932007

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -12.457049 -134.400323 -2.136263
-0.004350 -2.297581 -165.057166
0.57754 -12.457049 -134.400323 -2.136263
-0.004350 -1.401781 -109.847453
0.71836 -12.457049 -134.400323 -2.136263
-0.004350 -0.507090 -69.924268
0.85918 -12.457049 -134.400323 -2.136263
-0.004350 -0.404037 -43.864757
1.00000 -12.457049 -134.400323 -2.136263
-0.004350 -1.310442 -37.594266

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 14.663973 97.130893 2.166445
0.006711 2.331474 149.884719
0.57754 14.663973 97.130893 2.166445
0.006711 1.423383 110.757021
0.71836 14.663973 97.130893 2.166445
0.006711 0.516523 79.114872
0.85918 14.663973 97.130893 2.166445
0.006711 0.391721 73.134516
1.00000 14.663973 97.130893 2.166445
0.006711 1.282503 92.932007

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -12.457049 -134.400323 -2.136263
-0.004350 -2.297581 -165.057166
0.57754 -12.457049 -134.400323 -2.136263
-0.004350 -1.401781 -109.847453
0.71836 -12.457049 -134.400323 -2.136263
-0.004350 -0.507090 -69.924268
0.85918 -12.457049 -134.400323 -2.136263
-0.004350 -0.404037 -43.864757
1.00000 -12.457049 -134.400323 -2.136263
-0.004350 -1.310442 -37.594266
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3680
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 351 ========== LENGTH = 2.977823

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.108030 2.077957 0.386987
0.000445 0.232556 11.167516
0.14086 3.108030 2.077957 0.386987
0.000445 0.070228 20.632851
0.28172 3.108030 2.077957 0.386987
0.000445 0.092559 30.124422
0.42258 3.108030 2.077957 0.386987
0.000445 0.234667 39.665271
0.56344 3.108030 2.077957 0.386987
0.000445 0.383754 49.212978

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.906215 -22.789933 -0.355429
-0.000749 -0.212594 -10.506105
0.14086 -0.906215 -22.789933 -0.355429
-0.000749 -0.063501 -9.195050
0.28172 -0.906215 -22.789933 -0.355429
-0.000749 -0.092143 -8.280579
0.42258 -0.906215 -22.789933 -0.355429
-0.000749 -0.254441 -7.654053
0.56344 -0.906215 -22.789933 -0.355429
-0.000749 -0.416763 -7.301569

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.963842 4.677058 0.712017
0.000799 0.426051 18.299826
0.14086 6.963842 4.677058 0.712017
0.000799 0.127513 34.786192
0.28172 6.963842 4.677058 0.712017
0.000799 0.149511 51.952113
0.42258 6.963842 4.677058 0.712017
0.000799 0.412808 69.996976
0.56344 6.963842 4.677058 0.712017
0.000799 0.676109 88.435851

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.724239 -44.526120 -0.627732
-0.001487 -0.377126 -29.322975
0.14086 -0.724239 -44.526120 -0.627732
-0.001487 -0.113855 -23.404674
0.28172 -0.724239 -44.526120 -0.627732
-0.001487 -0.172003 -18.458090
0.42258 -0.724239 -44.526120 -0.627732
-0.001487 -0.470599 -14.583188
0.56344 -0.724239 -44.526120 -0.627732
-0.001487 -0.769247 -12.594110

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.673754 17.802127 0.996279
0.000561 0.594372 31.096572
0.14086 7.673754 17.802127 0.996279
0.000561 0.176469 47.182051
0.28172 7.673754 17.802127 0.996279
0.000561 0.202278 65.714849
0.42258 7.673754 17.802127 0.996279
0.000561 0.559263 89.819041
0.56344 7.673754 17.802127 0.996279
0.000561 0.916152 114.010924

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.611033 -58.129194 -0.850864
-0.001714 -0.511454 -20.279891
0.14086 -1.611033 -58.129194 -0.850864
-0.001714 -0.154408 -16.591375
0.28172 -1.611033 -58.129194 -0.850864
-0.001714 -0.241505 -17.205272
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3681
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42258 -1.611033 -58.129194 -0.850864
-0.001714 -0.659337 -20.605412
0.56344 -1.611033 -58.129194 -0.850864
-0.001714 -1.077232 -24.814070

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.759111 57.471300 1.139211
0.003045 0.692134 83.140128
0.14086 7.759111 57.471300 1.139211
0.003045 0.215229 93.713000
0.28172 7.759111 57.471300 1.139211
0.003045 0.231502 106.536254
0.42258 7.759111 57.471300 1.139211
0.003045 0.637992 135.398244
0.56344 7.759111 57.471300 1.139211
0.003045 1.044409 168.653524

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.252262 -81.827335 -0.968937
-0.004638 -0.581302 -21.078315
0.14086 -5.252262 -81.827335 -0.968937
-0.004638 -0.176109 -21.507400
0.28172 -5.252262 -81.827335 -0.968937
-0.004638 -0.276038 -26.983030
0.42258 -5.252262 -81.827335 -0.968937
-0.004638 -0.753824 -34.802071
0.56344 -5.252262 -81.827335 -0.968937
-0.004638 -1.231673 -53.804237

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.160398 1.970188 0.389543
0.000112 0.231126 6.775978
0.14086 4.160398 1.970188 0.389543
0.000112 0.067805 13.888679
0.28172 4.160398 1.970188 0.389543
0.000112 0.076837 23.638389
0.42258 4.160398 1.970188 0.389543
0.000112 0.215753 33.885803
0.56344 4.160398 1.970188 0.389543
0.000112 0.352665 44.275791

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.182730 -25.431884 -0.328814
-0.000666 -0.199034 -18.170400
0.14086 -0.182730 -25.431884 -0.328814
-0.000666 -0.061097 -13.581433
0.28172 -0.182730 -25.431884 -0.328814
-0.000666 -0.095750 -10.604672
0.42258 -0.182730 -25.431884 -0.328814
-0.000666 -0.259089 -8.528708
0.56344 -0.182730 -25.431884 -0.328814
-0.000666 -0.422485 -7.154573

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.008627 60.857359 0.781126
0.003249 0.481402 81.343631
0.14086 5.008627 60.857359 0.781126
0.003249 0.155047 69.952765
0.28172 5.008627 60.857359 0.781126
0.003249 0.150103 61.416649
0.42258 5.008627 60.857359 0.781126
0.003249 0.416539 74.631488
0.56344 5.008627 60.857359 0.781126
0.003249 0.682885 93.857672

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.392613 -49.307311 -0.635010
-0.005246 -0.382557 -11.596089
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3682
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14086 -4.392613 -49.307311 -0.635010
-0.005246 -0.117985 -8.069798
0.28172 -4.392613 -49.307311 -0.635010
-0.005246 -0.190916 -10.871652
0.42258 -4.392613 -49.307311 -0.635010
-0.005246 -0.518536 -16.461242
0.56344 -4.392613 -49.307311 -0.635010
-0.005246 -0.846184 -37.182776

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.365486 56.194717 1.014650
0.003263 0.619652 80.796289
0.14086 7.365486 56.194717 1.014650
0.003263 0.195239 78.361982

0.28172 7.365486 56.194717 1.014650
0.003263 0.198469 78.599002
0.42258 7.365486 56.194717 1.014650
0.003263 0.548549 98.425506
0.56344 7.365486 56.194717 1.014650
0.003263 0.899136 123.673411

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.191642 -63.357766 -0.835841
-0.005321 -0.503264 -20.190248
0.14086 -4.191642 -63.357766 -0.835841
-0.005321 -0.154201 -15.792397
0.28172 -4.191642 -63.357766 -0.835841
-0.005321 -0.246968 -16.973887
0.42258 -4.191642 -63.357766 -0.835841
-0.005321 -0.672508 -20.513461
0.56344 -4.191642 -63.357766 -0.835841
-0.005321 -1.098109 -37.635722

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.463617 62.832185 1.163095
0.002812 0.703344 69.965779
0.14086 7.463617 62.832185 1.163095
0.002812 0.216270 81.042223
0.28172 7.463617 62.832185 1.163095
0.002812 0.240343 94.250837
0.42258 7.463617 62.832185 1.163095
0.002812 0.662024 122.780934
0.56344 7.463617 62.832185 1.163095
0.002812 1.084119 154.187057

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.197006 -77.027922 -1.006303
-0.004009 -0.604287 -22.572753
0.14086 -6.197006 -77.027922 -1.006303
-0.004009 -0.183114 -28.101985
0.28172 -6.197006 -77.027922 -1.006303
-0.004009 -0.282526 -38.355041
0.42258 -6.197006 -77.027922 -1.006303
-0.004009 -0.770334 -50.749812
0.56344 -6.197006 -77.027922 -1.006303
-0.004009 -1.258200 -72.184659

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.012711 46.506708 0.505538
0.001198 0.301921 1.844548
0.14086 1.012711 46.506708 0.505538
0.001198 0.089857 2.584945
0.28172 1.012711 46.506708 0.505538
0.001198 0.129679 3.599865
0.42258 1.012711 46.506708 0.505538
0.001198 0.354689 4.705092
0.56344 1.012711 46.506708 0.505538
0.001198 0.579692 5.901618
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3683
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.656983 -6.219468 -0.536417
-0.000483 -0.320320 -13.849379
0.14086 -5.656983 -6.219468 -0.536417
-0.000483 -0.095294 -32.628919
0.28172 -5.656983 -6.219468 -0.536417
-0.000483 -0.122200 -51.644739
0.42258 -5.656983 -6.219468 -0.536417
-0.000483 -0.334255 -70.949204
0.56344 -5.656983 -6.219468 -0.536417
-0.000483 -0.546306 -90.317222

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.061461 111.765476 0.847710
0.005110 0.526831 84.610821
0.14086 2.061461 111.765476 0.847710
0.005110 0.172865 64.149667
0.28172 2.061461 111.765476 0.847710
0.005110 0.196887 49.279220
0.42258 2.061461 111.765476 0.847710
0.005110 0.538884 54.532056
0.56344 2.061461 111.765476 0.847710
0.005110 0.880849 68.085575

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.782920 -36.446123 -0.815259
-0.005835 -0.487012 -17.325720
0.14086 -10.782920 -36.446123 -0.815259
-0.005835 -0.147266 -33.538071
0.28172 -10.782920 -36.446123 -0.815259
-0.005835 -0.205002 -56.958672
0.42258 -10.782920 -36.446123 -0.815259
-0.005835 -0.560613 -80.993623
0.56344 -10.782920 -36.446123 -0.815259
-0.005835 -0.916190 -122.910669

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.561536 95.289295 1.104816
0.003790 0.437727 68.437727
0.14086 4.561536 95.289295 1.104816
0.003790 0.210407 61.142629
0.28172 4.561536 95.289295 1.104816
0.003790 0.243814 58.340794
0.42258 4.561536 95.289295 1.104816
0.003790 0.670885 74.180209
0.56344 4.561536 95.289295 1.104816
0.003790 1.097847 94.992247

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.222644 -52.465389 -1.017925
-0.004718 -0.610053 -15.944396
0.14086 -9.222644 -52.465389 -1.017925
-0.004718 -0.184467 -32.915750
0.28172 -9.222644 -52.465389 -1.017925
-0.004718 -0.268298 -55.434412
0.42258 -9.222644 -52.465389 -1.017925
-0.004718 -0.731724 -80.015805
0.56344 -9.222644 -52.465389 -1.017925
-0.004718 -1.195145 -116.782978

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.720989 80.455654 1.185717
0.003391 0.718266 62.073548
0.14086 6.720989 80.455654 1.185717
0.003391 0.221865 62.727368
0.28172 6.720989 80.455654 1.185717
0.003391 0.256586 67.341409
0.42258 6.720989 80.455654 1.185717
0.003391 0.707913 87.585135
0.56344 6.720989 80.455654 1.185717
0.003391 1.159124 112.001432
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3684
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -7.881746 -60.745995 -1.075727
-0.004407 -0.645762 -26.148796
0.14086 -7.881746 -60.745995 -1.075727
-0.004407 -0.195660 -37.366157
0.28172 -7.881746 -60.745995 -1.075727
-0.004407 -0.288233 -53.462278
0.42258 -7.881746 -60.745995 -1.075727
-0.004407 -0.785564 -71.720876
0.56344 -7.881746 -60.745995 -1.075727
-0.004407 -1.282920 -100.468956

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.498552 3.160918 0.732208
0.000434 0.438833 17.616988
0.14086 5.498552 3.160918 0.732208
0.000434 0.131545 31.219278
0.28172 5.498552 3.160918 0.732208
0.000434 0.181554 45.668381
0.42258 5.498552 3.160918 0.732208
0.000434 0.497409 60.450805
0.56344 5.498552 3.160918 0.732208
0.000434 0.813014 75.423631

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.066848 -37.477927 -0.752496
-0.000817 -0.449517 -11.676036
0.14086 -1.066848 -37.477927 -0.752496
-0.000817 -0.133666 -10.157059
0.28172 -1.066848 -37.477927 -0.752496
-0.000817 -0.174244 -9.587344
0.42258 -1.066848 -37.477927 -0.752496
-0.000817 -0.481402 -9.438803
0.56344 -1.066848 -37.477927 -0.752496
-0.000817 -0.788718 -9.613944

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.337820 5.410198 1.259480
0.000712 0.750792 26.328929
0.14086 12.337820 5.410198 1.259480
0.000712 0.222556 52.228606
0.28172 12.337820 5.410198 1.259480
0.000712 0.316841 80.047022
0.42258 12.337820 5.410198 1.259480
0.000712 0.874479 109.222385
0.56344 12.337820 5.410198 1.259480
0.000712 1.432083 139.448436

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.180255 -76.938412 -1.329397
-0.001467 -0.791565 -30.303129
0.14086 -1.180255 -76.938412 -1.329397
-0.001467 -0.241005 -23.304635
0.28172 -1.180255 -76.938412 -1.329397
-0.001467 -0.304492 -19.067179
0.42258 -1.180255 -76.938412 -1.329397
-0.001467 -0.832713 -16.853081
0.56344 -1.180255 -76.938412 -1.329397
-0.001467 -1.361327 -16.058997

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.970174 17.262887 1.621775
0.000548 0.964815 47.040326
0.14086 12.970174 17.262887 1.621775
0.000548 0.284634 76.705303
0.28172 12.970174 17.262887 1.621775
0.000548 0.402664 109.767082
0.42258 12.970174 17.262887 1.621775
0.000548 1.111968 146.104404
0.56344 12.970174 17.262887 1.621775
0.000548 1.821735 183.500557
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3685
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.074003 -93.707245 -1.691293
-0.001679 -1.014823 -22.777058
0.14086 -2.074003 -93.707245 -1.691293
-0.001679 -0.305422 -17.98651 2
0.28172 -2.074003 -93.707245 -1.691293
-0.001679 -0.394045 -19.005094
0.42258 -2.074003 -93.707245 -1.691293
-0.001679 -1.074136 -22.306295
0.56344 -2.074003 -93.707245 -1.691293
-0.001679 -1.754533 -26.540415

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.040794 58.561703 1.940936
0.002326 1.168095 90.481051
0.14086 12.040794 58.561703 1.940936
0.002326 0.354292 113.959502
0.28172 12.040794 58.561703 1.940936
0.002326 0.471845 140.958911
0.42258 12.040794 58.561703 1.940936
0.002326 1.298668 178.712081
0.56344 12.040794 58.561703 1.940936
0.002326 2.126402 222.341263

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.601569 -109.550771 -1.972732
-0.003826 -1.182148 -23.395352
0.14086 -6.601569 -109.550771 -1.972732
-0.003826 -0.357623 -24.852062
0.28172 -6.601569 -109.550771 -1.972732
-0.003826 -0.469446 -33.008284
0.42258 -6.601569 -109.550771 -1.972732
-0.003826 -1.282641 -44.146586
0.56344 -6.601569 -109.550771 -1.972732
-0.003826 -2.096787 -65.480231

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.947174 2.354465 0.579182
9.28E-05 0.342076 10.177035
0.14086 6.947174 2.354465 0.579182
9.28E-05 0.099177 23.507225
0.28172 6.947174 2.354465 0.579182
9.28E-05 0.148004 39.089650
0.42258 6.947174 2.354465 0.579182
9.28E-05 0.412686 55.212592
0.56344 6.947174 2.354465 0.579182
9.28E-05 0.677594 71.901442

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.286052 -42.610664 -0.631534
-0.000649 -0.382093 -17.344265
0.14086 -0.286052 -42.610664 -0.631534
-0.000649 -0.117405 -12.408080
0.28172 -0.286052 -42.610664 -0.631534
-0.000649 -0.143700 -9.351224
0.42258 -0.286052 -42.610664 -0.631534
-0.000649 -0.386546 -7.882917
0.56344 -0.286052 -42.610664 -0.631534
-0.000649 -0.629511 -7.151772

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.775854 55.773432 1.157582
0.002497 0.704507 86.881789
0.14086 7.775854 55.773432 1.157582
0.002497 0.219483 88.143674
0.28172 7.775854 55.773432 1.157582
0.002497 0.282169 92.349623
0.42258 7.775854 55.773432 1.157582
0.002497 0.780014 111.585952
0.56344 7.775854 55.773432 1.157582
0.002497 1.279582 139.129007
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3686
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.599203 -70.674167 -1.190552
-0.004459 -0.716612 -11.930888
0.14086 -4.599203 -70.674167 -1.190552
-0.004459 -0.222358 -7.939396
0.28172 -4.599203 -70.674167 -1.190552
-0.004459 -0.282700 -10.725999
0.42258 -4.599203 -70.674167 -1.190552
-0.004459 -0.766860 -16.592635
0.56344 -4.599203 -70.674167 -1.190552
-0.004459 -1.252071 -37.487607

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.363834 52.238295 1.609934
0.002576 0.972851 89.181924
0.14086 12.363834 52.238295 1.609934
0.002576 0.298021 102.322904
0.28172 12.363834 52.238295 1.609934
0.002576 0.395761 118.749070
0.42258 12.363834 52.238295 1.609934
0.002576 1.092547 148.966234
0.56344 12.363834 52.238295 1.609934
0.002576 1.790756 186.766805

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.527451 -96.849572 -1.664466
-0.004640 -1.001011 -21.165290
0.14086 -4.527451 -96.849572 -1.664466
-0.004640 -0.307366 -16.071202
0.28172 -4.527451 -96.849572 -1.664466
-0.004640 -0.391353 -17.487761
0.42258 -4.527451 -96.849572 -1.664466
-0.004640 -1.065279 -21.761024
0.56344 -4.527451 -96.849572 -1.664466
-0.004640 -1.740426 -39.796907

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.494014 72.628869 2.022781
0.002289 1.214049 74.698858
0.14086 11.494014 72.628869 2.022781
0.002289 0.365853 98.140775
0.28172 11.494014 72.628869 2.022781
0.002289 0.490799 124.665893
0.42258 11.494014 72.628869 2.022781
0.002289 1.051662 160.408449
0.56344 11.494014 72.628869 2.022781
0.002289 2.213504 200.976447

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.380412 -101.945196 -2.053949
-0.003360 -1.231337 -25.868972
0.14086 -8.380412 -101.945196 -2.053949
-0.003360 -0.372137 -36.725920
0.28172 -8.380412 -101.945196 -2.053949
-0.003360 -0.474889 -53.240771
0.42258 -8.380412 -101.945196 -2.053949
-0.003360 -1.338350 -72.050624
0.56344 -8.380412 -101.945196 -2.053949
-0.003360 -2.186742 -99.352682

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.091815 79.390460 1.109069
0.001321 0.663043 2.384502
0.14086 1.091815 79.390460 1.109069
0.001321 0.197888 3.443247
0.28172 1.091815 79.390460 1.109069
0.001321 0.264521 4.700628
0.42258 1.091815 79.390460 1.109069
0.001321 0.725330 6.285782
0.56344 1.091815 79.390460 1.109069
0.001321 1.185695 9.032879
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3687
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.611918 -8.136342 -1.097231
-0.000463 -0.654373 -31.224388
0.14086 -9.611918 -8.136342 -1.097231
-0.000463 -0.193549 -63.175005
0.28172 -9.611918 -8.136342 -1.097231
-0.000463 -0.267250 -95.287960
0.42258 -9.611918 -8.136342 -1.097231
-0.000463 -0.732495 -127.933885
0.56344 -9.611918 -8.136342 -1.097231
-0.000463 -1.197785 -160.999626

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.150275 147.981218 1.716674
0.004749 1.051153 92.981809
0.14086 2.150275 147.981218 1.716674
0.004749 0.331860 74.494873
0.28172 2.150275 147.981218 1.716674
0.004749 0.405369 59.795099
0.42258 2.150275 147.981218 1.716674
0.004749 1.109182 63.265376
0.56344 2.150275 147.981218 1.716674
0.004749 1.813886 78.165236

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.587259 -39.711469 -1.680023
-0.005627 -1.003552 -32.033535
0.14086 -15.587259 -39.711469 -1.680023
-0.005627 -0.305196 -63.134795
0.28172 -15.587259 -39.711469 -1.680023
-0.005627 -0.411951 -98.378368
0.42258 -15.587259 -39.711469 -1.680023
-0.005627 -1.130272 -138.258887
0.56344 -15.587259 -39.711469 -1.680023
-0.005627 -1.849946 -198.663320

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.037190 127.357958 1.996502
0.003667 1.208394 81.873679
0.14086 6.037190 127.357958 1.996502
0.003667 0.371417 81.067802
0.28172 6.037190 127.357958 1.996502
0.003667 0.478411 84.069491
0.42258 6.037190 127.357958 1.996502
0.003667 1.315384 101.798710
0.56344 6.037190 127.357958 1.996502
0.003667 2.153251 127.640059

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.620455 -65.422818 -1.997030
-0.004677 -1.195364 -29.865900
0.14086 -13.620455 -65.422818 -1.997030
-0.004677 -0.362384 -58.503741
0.28172 -13.620455 -65.422818 -1.997030
-0.004677 -0.483090 -92.783165
0.42258 -13.620455 -65.422818 -1.997030
-0.004677 -1.319198 -129.433815
0.56344 -13.620455 -65.422818 -1.997030
-0.004677 -2.156345 -181.356966

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.494205 107.552574 2.123999
0.003280 1.279916 75.523107
0.14086 10.494205 107.552574 2.123999
0.003280 0.389444 85.319205
0.28172 10.494205 107.552574 2.123999
0.003280 0.515628 99.222243
0.42258 10.494205 107.552574 2.123999
0.003280 1.420976 125.728208
0.56344 10.494205 107.552574 2.123999
0.003280 2.327023 159.350527
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3688
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.641783 -85.792084 -2.159822
-0.004394 -1.295152 -37.594007
0.14086 -11.641783 -85.792084 -2.159822
-0.004394 -0.393190 -58.253534
0.28172 -11.641783 -85.792084 -2.159822
-0.004394 -0.515168 -84.718281
0.42258 -11.641783 -85.792084 -2.159822
-0.004394 -1.404845 -113.801967
0.56344 -11.641783 -85.792084 -2.159822
-0.004394 -2.295561 -155.889490

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.759111 111.765476 1.185717
0.005110 0.718266 84.610821
0.14086 7.759111 111.765476 1.185717
0.005110 0.221865 93.718900
0.28172 7.759111 111.765476 1.185717
0.005110 0.256586 106.536254
0.42258 7.759111 111.765476 1.185717
0.005110 0.707913 135.398344
0.56344 7.759111 111.765476 1.185717
0.005110 1.159124 168.653524

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.782920 -81.827335 -1.075727
-0.005835 -0.645762 -29.322975
0.14086 -10.782920 -81.827335 -1.075727
-0.005835 -0.195660 -37.366157
0.28172 -10.782920 -81.827335 -1.075727
-0.005835 -0.246853 -56.958672
0.42258 -10.782920 -81.827335 -1.075727
-0.005835 -0.785564 -80.993623
0.56344 -10.782920 -81.827335 -1.075727
-0.005835 -1.282920 -122.910669

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.970174 147.981218 2.123999
0.004749 1.279916 92.981809
0.14086 12.970174 147.981218 2.123999
0.004749 0.389444 113.959502
0.28172 12.970174 147.981218 2.123999
0.004749 0.515628 140.958911
0.42258 12.970174 147.981218 2.123999
0.004749 1.420976 178.712081
0.56344 12.970174 147.981218 2.123999
0.004749 2.327023 222.341263

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.587259 -109.550771 -2.159822
-0.005627 -1.295152 -37.594007
0.14086 -15.587259 -109.550771 -2.159822
-0.005627 -0.393190 -63.175005
0.28172 -15.587259 -109.550771 -2.159822
-0.005627 -0.515168 -98.378368
0.42258 -15.587259 -109.550771 -2.159822
-0.005627 -1.404845 -138.258887
0.56344 -15.587259 -109.550771 -2.159822
-0.005627 -2.295561 -198.663320

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.970174 147.981218 2.123999
0.005110 1.279916 92.981809
0.14086 12.970174 147.981218 2.123999
0.005110 0.389444 113.959502
0.28172 12.970174 147.981218 2.123999
0.005110 0.515628 140.958911
0.42258 12.970174 147.981218 2.123999
0.005110 1.420976 178.712081
0.56344 12.970174 147.981218 2.123999
0.005110 2.327023 222.341263
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3689
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

```
REL DIST          P          V2          V3
     T         M2         M3
0.00000  -15.587259 -109.550771  -2.159822
-0.005835  -1.295152  -37.594007
0.14086  -15.587259 -109.550771  -2.159822
-0.005835  -0.393190  -63.175005
0.28172  -15.587259 -109.550771  -2.159822
-0.005835  -0.515168  -98.378368
0.42258  -15.587259 -109.550771  -2.159822
-0.005835  -1.404845 -138.258887
0.56344  -15.587259 -109.550771  -2.159822
-0.005835  -2.295561 -198.663320

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000  12.970174  147.981218   2.123999
 0.005110  1.279916  92.981809
0.14086  12.970174  147.981218   2.123999
 0.005110  0.389444  113.959502
0.28172  12.970174  147.981218   2.123999
 0.005110  0.515628  140.958911
0.42258  12.970174  147.981218   2.123999
 0.005110  1.420976  178.712081
0.56344  12.970174  147.981218   2.123999
 0.005110  2.327023  222.341263

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -15.587259 -109.550771  -2.159822
-0.005835  -1.295152  -37.594007
0.14086  -15.587259 -109.550771  -2.159822
-0.005835  -0.393190  -63.175005
0.28172  -15.587259 -109.550771  -2.159822
-0.005835  -0.515168  -98.378368
0.42258  -15.587259 -109.550771  -2.159822
-0.005835  -1.404845 -138.258887
0.56344  -15.587259 -109.550771  -2.159822
-0.005835  -2.295561 -198.663320

ELEM      352 ================== LENGTH
=    2.976557

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   2.996845   2.806638   0.356995
0.000841   0.394857   4.748052
0.57756   2.996845   2.806638   0.356995
0.000841   0.235227   4.052717
0.71837   2.996845   2.806638   0.356995
0.000841   0.085580   3.360733
0.85919   2.996845   2.806638   0.356995
0.000841   0.068728   2.704622
1.00000   2.996845   2.806638   0.356995
0.000841   0.225464   7.376676

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -1.679515 -21.661747  -0.373958
-0.000782  -0.402325  -35.552628
0.57756  -1.679515 -21.661747  -0.373958
-0.000782  -0.246133  -26.553164
0.71837  -1.679515 -21.661747  -0.373958
-0.000782  -0.089925  -17.642337
0.85919  -1.679515 -21.661747  -0.373958
-0.000782  -0.063399  -9.120411
1.00000  -1.679515 -21.661747  -0.373958
-0.000782  -0.213665  -2.668917

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   9.244850   4.289244   0.642909
0.001472   0.693598   7.863955
0.57756   9.244850   4.289244   0.642909
0.001472   0.424130   6.691648
0.71837   9.244850   4.289244   0.642909
0.001472   0.154643   5.604126
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                3690

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.85919   9.244850   4.289244   0.642909
0.001472   0.126202   5.468826
1.00000   9.244850   4.289244   0.642909
0.001472   0.420956  14.436454

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -1.050241 -44.202847  -0.704012
-0.001487  -0.759360  -78.834210
0.57756  -1.050241 -44.202847  -0.704012
-0.001487  -0.464281  -61.832807
0.71837  -1.050241 -44.202847  -0.704012
-0.001487  -0.169167  -45.158935
0.85919  -1.050241 -44.202847  -0.704012
-0.001487  -0.114997  -29.855205
1.00000  -1.050241 -44.202847  -0.704012
-0.001487  -0.384275  -17.433969

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   9.801576   4.559923   0.891233
0.001078   0.961291   9.104063
0.57756   9.801576   4.559923   0.891233
0.001078   0.587740   7.728079
0.71837   9.801576   4.559923   0.891233
0.001078   0.214165   6.355464
0.85919   9.801576   4.559923   0.891233
0.001078   0.175477   6.282041
1.00000   9.801576   4.559923   0.891233
0.001078   0.586302  21.339372

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -1.128798 -55.125238  -0.979726
-0.001049  -1.056266  -84.256467
0.57756  -1.128798 -55.125238  -0.979726
-0.001049  -0.645624  -62.033726
0.71837  -1.128798 -55.125238  -0.979726
-0.001049  -0.234878  -39.937950
0.85919  -1.128798 -55.125238  -0.979726
-0.001049  -0.159266  -19.710097
1.00000  -1.128798 -55.125238  -0.979726
-0.001049  -0.532912  -10.407038

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   9.803740  16.927594   1.014214
 0.003556   1.093129  27.111024
0.57756   9.803740  16.927594   1.014214
 0.003556   0.668032  21.496032
0.71837   9.803740  16.927594   1.014214
 0.003556   0.242911  17.069885
0.85919   9.803740  16.927594   1.014214
 0.003556   0.206799  32.555423
1.00000   9.803740  16.927594   1.014214
 0.003556   0.660312  72.069427

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -3.549827 -112.609791  -1.102265
-0.004302  -1.187698 -127.695774
0.57756  -3.549827 -112.609791  -1.102265
-0.004302  -0.725696  -81.229877
0.71837  -3.549827 -112.609791  -1.102265
-0.004302  -0.263689  -38.777005
0.85919  -3.549827 -112.609791  -1.102265
-0.004302  -0.187037  -16.954623
1.00000  -3.549827 -112.609791  -1.102265
-0.004302  -0.607259  -11.353419

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   6.524094   1.327693   0.340156
0.000450   0.367241   3.240461
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                3691

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.57756   6.524094   1.327693   0.340156
0.000450   0.224669   2.730169
0.71837   6.524094   1.327693   0.340156
0.000450   0.082099   2.224549
0.85919   6.524094   1.327693   0.340156
0.000450   0.070829   1.774216
1.00000   6.524094   1.327693   0.340156
0.000450   0.235783   6.811165

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -0.384878 -23.485404  -0.393428
-0.000484  -0.423828  -45.035921
0.57756  -0.384878 -23.485404  -0.393428
-0.000484  -0.258928  -36.812960
0.71837  -0.384878 -23.485404  -0.393428
-0.000484  -0.093975  -29.637259
0.85919  -0.384878 -23.485404  -0.393428
-0.000484  -0.060414  -22.729613
1.00000  -0.384878 -23.485404  -0.393428
-0.000484  -0.203050  -15.995700

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   9.032321   5.563676   0.686626
0.003353   0.740417   9.202054
0.57756   9.032321   5.563676   0.686626
0.003353   0.452625   7.568843
0.71837   9.032321   5.563676   0.686626
0.003353   0.164822   8.111807
0.85919   9.032321   5.563676   0.686626
0.003353   0.150174  34.532689
1.00000   9.032321   5.563676   0.686626
0.003353   0.460060  71.597168

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -1.597820 -96.934246  -0.767447
-0.004412  -0.826609  -98.159293
0.57756  -1.597820 -96.934246  -0.767447
-0.004412  -0.504941  -58.436076
0.71837  -1.597820 -96.934246  -0.767447
-0.004412  -0.183181  -23.983243
0.85919  -1.597820 -96.934246  -0.767447
-0.004412  -0.129690  -11.304014
1.00000  -1.597820 -96.934246  -0.767447
-0.004412  -0.410752  -9.596249

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675  11.288718   7.057195   0.901470
 0.003649   0.972217  11.865245
0.57756  11.288718   7.057195   0.901470
 0.003649   0.594375   9.866431
0.71837  11.288718   7.057195   0.901470
 0.003649   0.216519   9.837872
0.85919  11.288718   7.057195   0.901470
 0.003649   0.180250  33.119893
1.00000  11.288718   7.057195   0.901470
 0.003649   0.598470  70.047709

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -1.916003 -105.475948  -0.999209
-0.004571  -1.076764 -117.901457
0.57756  -1.916003 -105.475948  -0.999209
-0.004571  -0.657957  -74.459078
0.71837  -1.916003 -105.475948  -0.999209
-0.004571  -0.239038  -35.049559
0.85919  -1.916003 -105.475948  -0.999209
-0.004571  -0.167340  -17.765354
1.00000  -1.916003 -105.475948  -0.999209
-0.004571  -0.539151  -12.059255
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                3692

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   9.217083  27.309602   1.033451
 0.003109   1.113672  42.224033
0.57756   9.217083  27.309602   1.033451
 0.003109   0.680509  31.497180
0.71837   9.217083  27.309602   1.033451
 0.003109   0.247339  22.130736
0.85919   9.217083  27.309602   1.033451
 0.003109   0.211686  28.863666
1.00000   9.217083  27.309602   1.033451
 0.003109   0.680750  60.837820

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -4.774694 -95.974894  -1.135498
-0.003765  -1.222981 -109.481960
0.57756  -4.774694 -95.974894  -1.135498
-0.003765  -0.747049  -70.052614
0.71837  -4.774694 -95.974894  -1.135498
-0.003765  -0.271010  -33.890037
0.85919  -4.774694 -95.974894  -1.135498
-0.003765  -0.189688  -15.355952
1.00000  -4.774694 -95.974894  -1.135498
-0.003765  -0.618967  -14.200588

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   0.186994  45.275396   0.505461
 0.000888   0.543659  63.593177
0.57756   0.186994  45.275396   0.505461
 0.000888   0.331800  44.622579
0.71837   0.186994  45.275396   0.505461
 0.000888   0.119937  25.652474
0.85919   0.186994  45.275396   0.505461
 0.000888   0.096927   6.721921
1.00000   0.186994  45.275396   0.505461
 0.000888   0.320642   1.666633

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -5.913233  -4.075388  -0.533590
-0.000918  -0.573952  -5.526080
0.57756  -5.913233  -4.075388  -0.533590
-0.000918  -0.350303  -3.839898
0.71837  -5.913233  -4.075388  -0.533590
-0.000918  -0.126636  -2.251877
0.85919  -5.913233  -4.075388  -0.533590
-0.000918  -0.091910  -0.906105
1.00000  -5.913233  -4.075388  -0.533590
-0.000918  -0.303775  -13.061772

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   2.943462  56.034104   0.810548
 0.004842   0.872018  85.994233
0.57756   2.943462  56.034104   0.810548
 0.004842   0.532285  63.377424
0.71837   2.943462  56.034104   0.810548
 0.004842   0.192541  43.415001
0.85919   2.943462  56.034104   0.810548
 0.004842   0.170590  53.496082
1.00000   2.943462  56.034104   0.810548
 0.004842   0.517050  77.246733

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -9.037246 -84.989205  -0.860863
-0.006157  -0.926243  -68.015619
0.57756  -9.037246 -84.989205  -0.860863
-0.006157  -0.565421  -32.571472
0.71837  -9.037246 -84.989205  -0.860863
-0.006157  -0.204558  -4.063015
0.85919  -9.037246 -84.989205  -0.860863
-0.006157  -0.155468  -1.914476
1.00000  -9.037246 -84.989205  -0.860863
-0.006157  -0.486912  -15.007029
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                3693

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   5.829813  47.436538   1.026869
 0.003557   1.105745  68.067359
0.57756   5.829813  47.436538   1.026869
 0.003557   0.675344  48.735552
0.71837   5.829813  47.436538   1.026869
 0.003557   0.244930  31.225202
0.85919   5.829813  47.436538   1.026869
 0.003557   0.211517  35.366466
1.00000   5.829813  47.436538   1.026869
 0.003557   0.668816  60.130181

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -7.046315 -80.651508  -1.114305
-0.004446  -1.199381  -77.302042
0.57756  -7.046315 -80.651508  -1.114305
-0.004446  -0.732332  -43.564909
0.71837  -7.046315 -80.651508  -1.114305
-0.004446  -0.265179  -14.243564
0.85919  -7.046315 -80.651508  -1.114305
-0.004446  -0.191090  -3.056534
1.00000  -7.046315 -80.651508  -1.114305
-0.004446  -0.615859  -14.036085

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   9.200816  40.960169   1.092726
 0.003440   1.177290  59.464971
0.57756   9.200816  40.960169   1.092726
 0.003440   0.719285  42.950834
0.71837   9.200816  40.960169   1.092726
 0.003440   0.261262  27.943349
0.85919   9.200816  40.960169   1.092726
 0.003440   0.132202  30.982482
1.00000   9.200816  40.960169   1.092726
 0.003440   0.717834  54.179576

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -6.225905 -82.993448  -1.196727
-0.004175  -1.288548  -93.482770
0.57756  -6.225905 -82.993448  -1.196727
-0.004175  -0.786953  -59.444040
0.71837  -6.225905 -82.993448  -1.196727
-0.004175  -0.285358  -29.193798
0.85919  -6.225905 -82.993448  -1.196727
-0.004175  -0.201312  -14.712683
1.00000  -6.225905 -82.993448  -1.196727
-0.004175  -0.654727  -19.689614

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675   5.019351   4.523401   0.725577
0.000916   0.780168   8.609247
0.57756   5.019351   4.523401   0.725577
0.000916   0.475921   6.963063
0.71837   5.019351   4.523398   0.725577
0.000916   0.171513   5.425378
0.85919   5.019351   4.523401   0.725577
0.000916   0.149141   4.113101
1.00000   5.019351   4.523401   0.725577
0.000916   0.493992  12.874318

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -2.051000 -45.083662  -0.822478
-0.000809  -0.884877  -69.807262
0.57756  -2.051000 -45.083662  -0.822478
-0.000809  -0.540346  -51.021053
0.71837  -2.051000 -45.083662  -0.822478
-0.000809  -0.195898  -32.335092
0.85919  -2.051000 -45.083662  -0.822478
-0.000809  -0.131260  -14.037539
1.00000  -2.051000 -45.083662  -0.822478
-0.000809  -0.435483  -4.673811
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                3694

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675  16.447924   6.753136   1.220533
 0.001486   1.313534  12.936051
0.57756  16.447924   6.753136   1.220533
 0.001486   0.801672  10.456256
0.71837  16.447924   6.753136   1.220533
 0.001486   0.289907   8.148721
0.85919  16.447924   6.753136   1.220533
 0.001486   0.269323   6.680711
1.00000  16.447924   6.753136   1.220533
 0.001486   0.890951  21.677111

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -1.793530 -91.393621  -1.483769
-0.001487  -1.596923 -154.617720
0.57756  -1.793530 -91.393621  -1.483769
-0.001487  -0.974969 -116.576932
0.71837  -1.793530 -91.393621  -1.483769
-0.001487  -0.353101  -78.785317
0.85919  -1.793530 -91.393621  -1.483769
-0.001487  -0.219857  -41.978956
1.00000  -1.793530 -91.393621  -1.483769
-0.001487  -0.731295  -19.399539

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675  17.528149   7.913132   1.542303
 0.001174   1.660271  16.621883
0.57756  17.528149   7.913132   1.542303
 0.001174   1.013682  13.638758
0.71837  17.528149   7.913132   1.542303
 0.001174   0.367076  10.782618
0.85919  17.528149   7.913132   1.542303
 0.001174   0.344144  11.789362
1.00000  17.528149   7.913132   1.542303
 0.001174   1.142386  39.369458

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -2.015775 -111.316961  -1.904836
-0.001146  -2.049763 -165.231111
0.57756  -2.015775 -111.316961  -1.904836
-0.001146  -1.251431 -118.810609
0.71837  -2.015775 -111.316961  -1.904836
-0.001146  -0.453200  -72.561451
0.85919  -2.015775 -111.316961  -1.904836
-0.001146  -0.277635  -31.054074
1.00000  -2.015775 -111.316961  -1.904836
-0.001146  -0.924129  -13.749037

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675  16.253095  28.567843   1.824729
 0.002979   1.963062  50.847820
0.57756  16.253095  28.567843   1.824729
 0.002979   1.198051  39.516258
0.71837  16.253095  28.567843   1.824729
 0.002979   0.434256  30.726600
0.85919  16.253095  28.567843   1.824729
 0.002979   0.407272  40.612206
1.00000  16.253095  28.567843   1.824729
 0.002979   1.326583  81.512064

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -5.905425 -150.337181  -2.202555
-0.003722  -2.368191 -188.732465
0.57756  -5.905425 -150.337181  -2.202555
-0.003722  -1.445021 -126.272362
0.71837  -5.905425 -150.337181  -2.202555
-0.003722  -0.522905  -67.112687
0.85919  -5.905425 -150.337181  -2.202555
-0.003722  -0.334922  -26.730148
1.00000  -5.905425 -150.337181  -2.202555
-0.003722  -1.095186  -14.694568
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                                3695

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675  12.039323   2.022973   0.536138
 0.000397   0.578005   4.522930
0.57756  12.039323   2.022973   0.536138
 0.000397   0.353226   3.715449
0.71837  12.039323   2.022973   0.536138
 0.000397   0.128472   2.929620
0.85919  12.039323   2.022973   0.536138
 0.000397   0.132202   2.364747
1.00000  12.039323   2.022973   0.536138
 0.000397   0.437028  10.875739

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -0.592426 -50.006688  -0.727302
-0.000425  -0.782425  -90.842374
0.57756  -0.592426 -50.006688  -0.727302
-0.000425  -0.477571  -70.167010
0.71837  -0.592426 -50.006688  -0.727302
-0.000425  -0.172806  -49.491931
0.85919  -0.592426 -50.006688  -0.727302
-0.000425  -0.095820  -29.088506
1.00000  -0.592426 -50.006688  -0.727302
-0.000425  -0.320549  -15.770373

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675  14.547895   7.326495   1.064111
 0.002697   1.144560  15.250582
0.57756  14.547895   7.326495   1.064111
 0.002697   0.698568  12.563766
0.71837  14.547895   7.326495   1.064111
 0.002697   0.254354  13.264154
0.85919  14.547895   7.326495   1.064111
 0.002697   0.262560  38.190797
1.00000  14.547895   7.326495   1.064111
 0.002697   0.829904  81.648546

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -2.356538 -124.079864  -1.368142
-0.003815  -1.468232 -139.209162
0.57756  -2.356538 -124.079864  -1.368142
-0.003815  -0.894958  -87.675251
0.71837  -2.356538 -124.079864  -1.368142
-0.003815  -0.323403  -40.669899
0.85919  -2.356538 -124.079864  -1.368142
-0.003815  -0.200270  -15.525488
1.00000  -2.356538 -124.079864  -1.368142
-0.003815  -0.639414  -9.711257

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43675  19.723509   9.817573   1.511554
 0.003109   1.626002  19.714024
0.57756  19.723509   9.817573   1.511554
 0.003109   0.992312  16.142758
0.71837  19.723509   9.817573   1.511554
 0.003109   0.360329  15.637961
0.85919  19.723509   9.817573   1.511554
 0.003109   0.356774  36.956397
1.00000  19.723509   9.817573   1.511554
 0.003109   1.146229  82.176256

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43675  -2.867885 -150.384473  -1.896450
-0.004055  -2.037311 -187.160610
0.57756  -2.867885 -150.384473  -1.896450
-0.004055  -1.242607 -124.621355
0.71837  -2.867885 -150.384473  -1.896450
-0.004055  -0.449425  -66.311624
0.85919  -2.867885 -150.384473  -1.896450
```

```
-0.004055   -0.280046  -27.941533
1.00000    -2.867885  -150.384473    -1.896450
-0.004055   -0.907339  -13.770080
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                MOVING              LOAD                >
                                      3696

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    16.301216     50.111723      1.881409
 0.002667    2.023842     80.075621
0.57756    16.301216     50.111723      1.881409
 0.002667    1.236050     59.553049
0.71837    16.301216     50.111723      1.881409
 0.002667    0.448408     41.058435
0.85919    16.301216     50.111723      1.881409
 0.002667    0.421079     37.902733
1.00000    16.301216     50.111723      1.881409
 0.002667    1.377634     68.792935

COMB DL-G2-4 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675    -8.200703  -132.321300     -2.289106
-0.003291   -2.461672  -168.292807
0.57756    -8.200703  -132.321300     -2.289106
-0.003291   -1.502184  -113.250162
0.71837    -8.200703  -132.321300     -2.289106
-0.003291   -0.543622   -60.928862
0.85919    -8.200703  -132.321300     -2.289106
-0.003291   -0.343666   -24.055459
1.00000    -8.200703  -132.321300     -2.289106
-0.003291   -1.128560   -19.211917

COMB DL-G3-1 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    0.307200     98.459794      1.030217
 0.000933    1.109503    135.886460
0.57756    0.307200     98.459794      1.030217
 0.000933    0.677592     94.661255
0.71837    0.307200     98.459794      1.030217
 0.000933    0.245779     53.525381
0.85919    0.307200     98.459794      1.030217
 0.000933    0.210530     12.663957
1.00000    0.307200     98.459794      1.030217
 0.000933    0.703479     2.444465

COMB DL-G3-1 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675   -11.007307    -5.507445     -1.174393
-0.001003   -1.264553    -7.792572
0.57756   -11.007307    -5.507445     -1.174393
-0.001003   -0.772034    -5.528919
0.71837   -11.007307    -5.507445     -1.174393
-0.001003   -0.279404    -3.392383
0.85919   -11.007307    -5.507445     -1.174393
-0.001003   -0.185914    -1.820602
1.00000   -11.007307    -5.507445     -1.174393
-0.001003   -0.617611    -30.337325

COMB DL-G3-2 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    3.705962     109.967848     1.591006
 0.004581    1.710413    163.176864
0.57756    3.705962     109.967848     1.591006
 0.004581    1.043487    117.912274
0.71837    3.705962     109.967848     1.591006
 0.004581    0.379124     77.940312
0.85919    3.705962     109.967848     1.591006
 0.004581    0.349784     68.621159
1.00000    3.705962     109.967848     1.591006
 0.004581    1.108575     88.291414

COMB DL-G3-2 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675   -15.005842    -93.121090     -1.828417
-0.006198   -1.963630    -75.374340
0.57756   -15.005842    -93.121090     -1.828417
-0.006198   -1.196909    -37.200822
0.71837   -15.005842    -93.121090     -1.828417
-0.006198   -0.432306     -6.152259
0.85919   -15.005842    -93.121090     -1.828417
-0.006198   -0.306315     -2.896530
1.00000   -15.005842    -93.121090     -1.828417
-0.006198   -0.957172    -30.204399
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                MOVING              LOAD                >
                                      3697

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    9.661514     96.140580      1.843161
 0.003497    1.983326    139.599112
0.57756    9.661514     96.140580      1.843161
 0.003497    1.210736     99.686438
0.71837    9.661514     96.140580      1.843161
 0.003497    0.440053     63.188615
0.85919    9.661514     96.140580      1.843161
 0.003497    0.412754     50.240951
1.00000    9.661514     96.140580      1.843161
 0.003497    1.332288     77.422877

COMB DL-G3-3 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675   -12.773512  -108.632097     -2.207320
-0.004672   -2.372504   -110.838880
0.57756   -12.773512  -108.632097     -2.207320
-0.004672   -1.447128    -65.702879
0.71837   -12.773512  -108.632097     -2.207320
-0.004672   -0.523281    -25.197205
0.85919   -12.773512  -108.632097     -2.207320
-0.004672   -0.341434     -6.594429
1.00000   -12.773512  -108.632097     -2.207320
-0.004672   -1.106958    -28.451263

COMB DL-G3-4 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    16.461577     82.409289      1.976570
 0.003413    2.127177    120.750054
0.57756    16.461577     82.409289      1.976570
 0.003413    1.298634     86.642415
0.71837    16.461577     82.409289      1.976570
 0.003413    0.471666     55.396370
0.85919    16.461577     82.409289      1.976570
 0.003413    0.449920     43.663009
1.00000    16.461577     82.409289      1.976570
 0.003413    1.447772     71.098857

COMB DL-G3-4 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675   -11.202444  -125.615663     -2.401325
-0.004372   -2.581537   -153.856868
0.57756   -11.202444  -125.615663     -2.401325
-0.004372   -1.574908   -101.662955
0.71837   -11.202444  -125.615663     -2.401325
-0.004372   -0.569539    -53.400962
0.85919   -11.202444  -125.615663     -2.401325
-0.004372   -0.363518   -23.530476
1.00000   -11.202444  -125.615663     -2.401325
-0.004372   -1.186039   -32.285820

COMB DB ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    11.288718     56.034104      1.092726
 0.004842    1.177290     85.994233
0.57756    11.288718     56.034104      1.092726
 0.004842    0.719285     63.377424
0.71837    11.288718     56.034104      1.092726
 0.004842    0.261262     43.415001
0.85919    11.288718     56.034104      1.092726
 0.004842    0.224270     53.496082
1.00000    11.288718     56.034104      1.092726
 0.004842    0.717834     77.246733

COMB DB ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675    -9.037246  -112.609791     -1.196727
-0.006157   -1.288548   -127.695774
0.57756    -9.037246  -112.609791     -1.196727
-0.006157   -0.786953    -81.229877
0.71837    -9.037246  -112.609791     -1.196727
-0.006157   -0.285251    -45.158935
0.85919    -9.037246  -112.609791     -1.196727
-0.006157   -0.201312    -29.855205
1.00000    -9.037246  -112.609791     -1.196727
-0.006157   -0.654727    -12.669614
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                MOVING              LOAD                >
                                      3698

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    19.723509     109.967848     1.976570
 0.004581    2.127177    163.176864
0.57756    19.723509     109.967848     1.976570
 0.004581    1.298634    117.912274
0.71837    19.723509     109.967848     1.976570
 0.004581    0.471666     77.940312
0.85919    19.723509     109.967848     1.976570
 0.004581    0.445920     68.621159
1.00000    19.723509     109.967848     1.976570
 0.004581    1.447772     88.291414

COMB DL ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675   -15.005842  -150.384473     -2.401325
-0.006198   -2.581537   -188.732465
0.57756   -15.005842  -150.384473     -2.401325
-0.006198   -1.574908   -126.272362
0.71837   -15.005842  -150.384473     -2.401325
-0.006198   -0.569539    -78.785317
0.85919   -15.005842  -150.384473     -2.401325
-0.006198   -0.363518    -41.978956
1.00000   -15.005842  -150.384473     -2.401325
-0.006198   -1.186039   -32.285820

COMB CAR ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    19.723509     109.967848     1.976570
 0.004842    2.127177    163.176864
0.57756    19.723509     109.967848     1.976570
 0.004842    1.298634    117.912274
0.71837    19.723509     109.967848     1.976570
 0.004842    0.471666     77.940312
0.85919    19.723509     109.967848     1.976570
 0.004842    0.445920     68.621159
1.00000    19.723509     109.967848     1.976570
 0.004842    1.447772     88.291414

COMB CAR ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675   -15.005842  -150.384473     -2.401325
-0.006198   -2.581537   -188.732465
0.57756   -15.005842  -150.384473     -2.401325
-0.006198   -1.574908   -126.272362
0.71837   -15.005842  -150.384473     -2.401325
-0.006198   -0.569539    -78.785317
0.85919   -15.005842  -150.384473     -2.401325
-0.006198   -0.363518    -41.978956
1.00000   -15.005842  -150.384473     -2.401325
-0.006198   -1.186039   -32.285820

COMB DESIGN ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.43675    19.723509     109.967848     1.976570
 0.004842    2.127177    163.176864
0.57756    19.723509     109.967848     1.976570
 0.004842    1.298634    117.912274
0.71837    19.723509     109.967848     1.976570
 0.004842    0.471666     77.940312
0.85919    19.723509     109.967848     1.976570
 0.004842    0.445920     68.621159
1.00000    19.723509     109.967848     1.976570
 0.004842    1.447772     88.291414

COMB DESIGN ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.43675   -15.005842  -150.384473     -2.401325
-0.006198   -2.581537   -188.732465
0.57756   -15.005842  -150.384473     -2.401325
-0.006198   -1.574908   -126.272362
0.71837   -15.005842  -150.384473     -2.401325
-0.006198   -0.569539    -78.785317
0.85919   -15.005842  -150.384473     -2.401325
-0.006198   -0.363518    -41.978956
1.00000   -15.005842  -150.384473     -2.401325
-0.006198   -1.186039   -32.285820
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                MOVING              LOAD                >
                                      3699

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      353 ================== LENGTH
=    2.977553

COMB DB-G1-1 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    3.045140      2.843359       0.354696
0.000634    0.211361      7.383285
0.14085    3.045140      2.843359       0.354696
0.000634    0.062607     16.010419
0.28170    3.045140      2.843359       0.354696
0.000634    0.090021     24.701613
0.42255    3.045140      2.843359       0.354696
0.000634    0.247457     33.444000
0.56340    3.045140      2.843359       0.354696
0.000634    0.404875     42.197906

COMB DB-G1-1 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -1.690744   -21.421764     -0.375351
-0.000586   -0.224803    -2.670779
0.14085   -1.690744   -21.421764     -0.375351
-0.000586   -0.067355    -3.037928
0.28170   -1.690744   -21.421764     -0.375351
-0.000586   -0.086141    -3.906785
0.42255   -1.690744   -21.421764     -0.375351
-0.000586   -0.234904    -4.903915
0.56340   -1.690744   -21.421764     -0.375351
-0.000586   -0.383659    -6.065336

COMB DB-G1-2 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    9.217277      5.661555       0.642993
0.001237    0.383959     14.457268
0.14085    9.217277      5.661555       0.642993
0.001237    0.114526     29.592077
0.28170    9.217277      5.661555       0.642993
0.001237    0.170090     45.181122
0.42255    9.217277      5.661555       0.642993
0.001237    0.466309     61.467176
0.56340    9.217277      5.661555       0.642993
0.001237    0.762498     78.060164

COMB DB-G1-2 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -1.241903   -41.958612     -0.706240
-0.001125   -0.422378   -17.432387
0.14085   -1.241903   -41.958612     -0.706240
-0.001125   -0.126542   -11.907854
0.28170   -1.241903   -41.958612     -0.706240
-0.001125   -0.155357    -8.408107
0.42255   -1.241903   -41.958612     -0.706240
-0.001125   -0.425032    -7.280379
0.56340   -1.241903   -41.958612     -0.706240
-0.001125   -0.694695    -9.513174

COMB DB-G1-3 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    9.875164      4.566247       0.891105
0.001284    0.532218     21.362576
0.14085    9.875164      4.566247       0.891105
0.001284    0.158461     42.338898
0.28170    9.875164      4.566247       0.891105
0.001284    0.236495     63.772777
0.42255    9.875164      4.566247       0.891105
0.001284    0.647888     86.039667
0.56340    9.875164      4.566247       0.891105
0.001284    1.059210    108.345144

COMB DB-G1-3 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -1.187433   -54.473192     -0.980768
-0.001219   -0.586102   -10.407243
0.14085   -1.187433   -54.473192     -0.980768
-0.001219   -0.174658    -7.231127
0.28170   -1.187433   -54.473192     -0.980768
-0.001219   -0.215203    -6.025789
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                MOVING              LOAD                >
                                      3700

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2             V3
        T         M2             M3
0.42255   -1.187433   -54.473192     -0.980768
-0.001219   -0.588939    -6.326483
0.56340   -1.187433   -54.473192     -0.980768
-0.001219   -0.962658    -8.217443

COMB DB-G1-4 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    8.457387     43.573168      1.008275
 0.004354    0.601656     72.225360
0.14085    8.457387     43.573168      1.008275
 0.004354    0.183648     87.003516
0.28170    8.457387     43.573168      1.008275
 0.004354    0.265080    102.375007
0.42255    8.457387     43.573168      1.008275
 0.004354    0.725377    129.595278
0.56340    8.457387     43.573168      1.008275
 0.004354    1.185578    160.998922

COMB DB-G1-4 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -5.815077   -76.793698     -1.097315
-0.003554   -0.660778    -11.797592
0.14085   -5.815077   -76.793698     -1.097315
-0.003554   -0.205046    -11.712759
0.28170   -5.815077   -76.793698     -1.097315
-0.003554   -0.244033    -15.528982
0.42255   -5.815077   -76.793698     -1.097315
-0.003554   -0.666919    -20.663824
0.56340   -5.815077   -76.793698     -1.097315
-0.003554   -1.089778    -37.055296

COMB DB-G2-1 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    6.524250      1.360919       0.343218
0.000487    0.205498     6.821400
0.14085    6.524250      1.360919       0.343218
0.000487    0.061528     15.252735
0.28170    6.524250      1.360919       0.343218
0.000487    0.095086     23.939139
0.42255    6.524250      1.360919       0.343218
0.000487    0.241990     32.849629
0.56340    6.524250      1.360919       0.343218
0.000487    0.424684     42.234344

COMB DB-G2-1 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -0.401625   -23.239155     -0.392920
-0.000465   -0.234464    -15.993586
0.14085   -0.401625   -23.239155     -0.392920
-0.000465   -0.069652     -9.656415
0.28170   -0.401625   -23.239155     -0.392920
-0.000465   -0.092280     -3.855009
0.42255   -0.401625   -23.239155     -0.392920
-0.000465   -0.226327     -1.784349
0.56340   -0.401625   -23.239155     -0.392920
-0.000465   -0.370268     -2.212313

COMB DB-G2-2 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    7.102929     41.835333      0.686452
 0.004869    0.410220     71.801125
0.14085    7.102929     41.835333      0.686452
 0.004869    0.129031     68.689854
0.28170    7.102929     41.835333      0.686452
 0.004869    0.184894     66.269064
0.42255    7.102929     41.835333      0.686452
 0.004869    0.505437     80.019133
0.56340    7.102929     41.835333      0.686452
 0.004869    0.825927     99.494351

COMB DB-G2-2 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -4.557866   -48.277507     -0.764182
-0.003837   -0.456680    -9.639541
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                MOVING              LOAD                >
                                      3701

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2             V3
        T         M2             M3
0.14085   -4.557866   -48.277507     -0.764182
-0.003837   -0.149350    -5.108190
0.28170   -4.557866   -48.277507     -0.764182
-0.003837   -0.165546    -3.130363
0.42255   -4.557866   -48.277507     -0.764182
-0.003837   -0.453450    -2.792429
0.56340   -4.557866   -48.277507     -0.764182
-0.003837   -0.741340    -17.820114

COMB DB-G2-3 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    9.585570     39.824927      0.900622
 0.004890    0.538012     70.237539
0.14085    9.585570     39.824927      0.900622
 0.004890    0.166366     74.407978
0.28170    9.585570     39.824927      0.900622
 0.004890    0.240867     79.317344
0.42255    9.585570     39.824927      0.900622
 0.004890    0.659069     98.886082
0.56340    9.585570     39.824927      0.900622
 0.004890    1.077205    123.652725

COMB DB-G2-3 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -4.630833   -61.386396     -0.997033
-0.003913   -0.597783    -12.097561
0.14085   -4.630833   -61.386396     -0.997033
-0.003913   -0.189663     -5.873196
0.28170   -4.630833   -61.386396     -0.997033
-0.003913   -0.217395     -5.309623
0.42255   -4.630833   -61.386396     -0.997033
-0.003913   -0.595129     -6.073206
0.56340   -4.630833   -61.386396     -0.997033
-0.003913   -0.972835    -20.487073

COMB DB-G2-4 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    8.125254     49.100662      1.028550
 0.003833    0.614443     60.967957
0.14085    8.125254     49.100662      1.028550
 0.003833    0.187006     74.446916
0.28170    8.125254     49.100662      1.028550
 0.003833    0.272754     88.503180
0.42255    8.125254     49.100662      1.028550
 0.003833    0.746413    112.323552
0.56340    8.125254     49.100662      1.028550
 0.003833    1.220006    139.564078

COMB DB-G2-4 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -6.649111   -66.713423     -1.129262
-0.003203   -0.675977    -14.214625
0.14085   -6.649111   -66.713423     -1.129262
-0.003203   -0.208882    -18.354563
0.28170   -6.649111   -66.713423     -1.129262
-0.003203   -0.248266    -27.053202
0.42255   -6.649111   -66.713423     -1.129262
-0.003203   -0.679645    -36.908460
0.56340   -6.649111   -66.713423     -1.129262
-0.003203   -1.111005    -55.977031

COMB DB-G3-1 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    0.177303     45.784766      0.498593
 0.000867    0.297891     1.664069
0.14085    0.177303     45.784766      0.498593
 0.000867    0.088745     3.082838
0.28170    0.177303     45.784766      0.498593
 0.000867    0.127037     4.703031
0.42255    0.177303     45.784766      0.498593
 0.000867    0.347829     6.374519
0.56340    0.177303     45.784766      0.498593
 0.000867    0.568602     8.045101
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<                MOVING              LOAD                >
                                      3702

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -6.007210    -4.027089     -0.526418
-0.000878   -0.314496    -13.044765
0.14085   -6.007210    -4.027089     -0.526418
-0.000878   -0.093648    -32.017639
0.28170   -6.007210    -4.027089     -0.526418
-0.000878   -0.272313    -51.010972
0.42255   -6.007210    -4.027089     -0.526418
-0.000878   -0.329422    -70.120081
0.56340   -6.007210    -4.027089     -0.526418
-0.000878   -0.538526    -89.297289

COMB DB-G3-2 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    0.563318     100.816459     0.799296
 0.006131    0.477155     77.471463
0.14085    0.563318     100.816459     0.799296
 0.006131    0.150095     60.051101
0.28170    0.563318     100.816459     0.799296
 0.006131    0.205353     44.663092
0.42255    0.563318     100.816459     0.799296
 0.006131    0.561861     48.089639
0.56340    0.563318     100.816459     0.799296
 0.006131    0.918338     58.468017

COMB DB-G3-2 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -12.760685    -26.214431     -0.849993
-0.004921   -0.510798    -15.037577
0.14085   -12.760685    -26.214431     -0.849993
-0.004921   -0.167887    -33.112933
0.28170   -12.760685    -26.214431     -0.849993
-0.004921   -0.193263    -53.945509
0.42255   -12.760685    -26.214431     -0.849993
-0.004921   -0.528491    -75.955201
0.56340   -12.760685    -26.214431     -0.849993
-0.004921   -0.863706   -115.010058

COMB DB-G3-3 ------------------- MAX

REL DIST          P              V2             V3
        T         M2             M3
0.00000    4.210191     78.230691      1.018884
 0.004804    0.608692     60.296413
0.14085    4.210191     78.230691      1.018884
 0.004804    0.186948     57.833068
0.28170    4.210191     78.230691      1.018884
 0.004804    0.266836     55.853447
0.42255    4.210191     78.230691      1.018884
 0.004804    0.730015     67.447924
0.56340    4.210191     78.230691      1.018884
 0.004804    1.193125     83.804906

COMB DB-G3-3 ------------------- MIN

REL DIST          P              V2             V3
        T         M2             M3
0.00000   -9.617633    -40.018610     -1.104251
-0.003956   -0.661529    -14.054427
0.14085   -9.617633    -40.018610     -1.104251
-0.003956   -0.207642    -30.397641
0.28170   -9.617633    -40.018610     -1.104251
-0.003956   -0.245908    -48.834759
0.42255   -9.617633    -40.018610     -1.104251
```

```
-0.003956   -0.673232   -67.672442
 0.56340    -9.617633   -40.018610    -1.104251
-0.003956   -1.100540   -98.368201

COMB DB-G3-4 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000    7.867583   66.424103    1.086841
 0.004370   0.649426   54.322463
 0.14085    7.867583   66.424103    1.086841
 0.004370   0.198170   58.346489
 0.28170    7.867583   66.424103    1.086841
 0.004370   0.287101   63.000876
 0.42255    7.867583   66.424103    1.086841
 0.004370   0.785492   78.926746
 0.56340    7.867583   66.424103    1.086841
 0.004370   1.283824   98.822144
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3703

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -8.381224   -49.298585    -1.188240
-0.003651   -0.711360   -19.703988
 0.14085   -8.381224   -49.298585    -1.188240
-0.003651   -0.220615   -30.007040
 0.28170   -8.381224   -49.298585    -1.188240
-0.003651   -0.262175   -43.544556
 0.42255   -8.381224   -49.298585    -1.188240
-0.003651   -0.718001   -58.976356
 0.56340   -8.381224   -49.298585    -1.188240
-0.003651   -1.173808   -85.075698

COMB DL-G1-1 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000    5.073272    4.516758    0.710003
 0.000670   0.421975   12.886247
 0.14085    5.073272    4.516758    0.710003
 0.000670   0.123935   29.685560
 0.28170    5.073272    4.516758    0.710003
 0.000670   0.195662   47.256134
 0.42255    5.073272    4.516758    0.710003
 0.000670   0.535973   64.999192
 0.56340    5.073272    4.516758    0.710003
 0.000670   0.876044   83.478360

COMB DL-G1-1 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -2.100296   -44.731467    -0.810829
-0.000581   -0.484157   -4.674672
 0.14085   -2.100296   -44.731467    -0.810829
-0.000581   -0.143816   -4.322214
 0.28170   -2.100296   -44.731467    -0.810829
-0.000581   -0.172259   -5.054154
 0.42255   -2.100296   -44.731467    -0.810829
-0.000581   -0.470268   -6.000467
 0.56340   -2.100296   -44.731467    -0.810829
-0.000581   -0.768209   -7.715583

COMB DL-G1-2 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   16.436522    7.604970    1.200035
 0.001209   0.714627   21.703479
 0.14085   16.436522    7.604970    1.200035
 0.001209   0.211453   52.149495
 0.28170   16.436522    7.604970    1.200035
 0.001209   0.353837   84.929676
 0.42255   16.436522    7.604970    1.200035
 0.001209   0.965636   119.366877
 0.56340   16.436522    7.604970    1.200035
 0.001209   1.577514   156.195824

COMB DL-G1-2 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -1.934654   -89.745133    -1.458845
-0.001037   -0.870117   -19.400185
 0.14085   -1.934654   -89.745133    -1.458845
-0.001037   -0.258214   -12.883343
 0.28170   -1.934654   -89.745133    -1.458845
-0.001037   -0.290011   -10.075565
 0.42255   -1.934654   -89.745133    -1.458845
-0.001037   -0.901426   -8.990800
 0.56340   -1.934654   -89.745133    -1.458845
-0.001037   -1.296937   -11.763551

COMB DL-G1-3 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   17.500178    7.831897    1.514262
 0.001257   0.901978   39.419365
 0.14085   17.500178    7.831897    1.514262
 0.001257   0.266764   79.714902
 0.28170   17.500178    7.831897    1.514262
 0.001257   0.453656   121.982488
 0.42255   17.500178    7.831897    1.514262
 0.001257   1.238541   165.908739
 0.56340   17.500178    7.831897    1.514262
 0.001257   2.023631   211.538826
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3704

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G1-3 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -2.078745   -109.957910    -1.871887
-0.001120   -1.115254   -13.753238
 0.14085   -2.078745   -109.957910    -1.871887
-0.001120   -0.330197   -9.419463
 0.28170   -2.078745   -109.957910    -1.871887
-0.001120   -0.366508   -7.999720
 0.42255   -2.078745   -109.957910    -1.871887
-0.001120   -1.001761   -8.379735
 0.56340   -2.078745   -109.957910    -1.871887
-0.001120   -1.636871   -11.410106

COMB DL-G1-4 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   14.971519   51.321334    1.796708
 0.003548   1.071595   81.586361
 0.14085   14.971519   51.321334    1.796708
 0.003548   0.322504   114.031000
 0.28170   14.971519   51.321334    1.796708
 0.003548   0.524482   149.006361
 0.42255   14.971519   51.321334    1.796708
 0.003548   1.439526   193.576611
 0.56340   14.971519   51.321334    1.796708
 0.003548   2.346677   243.882520

COMB DL-G1-4 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -7.692534   -122.644234    -2.173573
-0.002749   -1.303076   -14.709583
 0.14085   -7.692534   -122.644234    -2.173573
-0.002749   -0.394518   -17.387747
 0.28170   -7.692534   -122.644234    -2.173573
-0.002749   -0.435165   -24.414801
 0.42255   -7.692534   -122.644234    -2.173573
-0.002749   -1.187712   -33.659054
 0.56340    -7.692534   -122.644234    -2.173573
-0.002749   -1.941317   -54.236153

COMB DL-G2-1 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   11.998340    2.021529    0.530161
 0.000453   0.316744   10.895315
 0.14085   11.998340    2.021529    0.530161
 0.000453   0.094361   26.994976
 0.28170   11.998340    2.021529    0.530161
 0.000453   0.173505   44.406336
 0.42255   11.998340    2.021529    0.530161
 0.000453   0.471756   63.325007
 0.56340   11.998340    2.021529    0.530161
 0.000453   0.770158   83.856094

COMB DL-G2-1 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -0.606191   -49.578877    -0.711356
-0.000404   -0.423317   -15.769107
 0.14085   -0.606191   -49.578877    -0.711356
-0.000404   -0.125105   -9.138586
 0.28170   -0.606191   -49.578877    -0.711356
-0.000404   -0.127529   -4.304600
 0.42255   -0.606191   -49.578877    -0.711356
-0.000404   -0.349918   -2.161577
 0.56340   -0.606191   -49.578877    -0.711356
-0.000404   -0.572310   -2.817219

COMB DL-G2-2 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   12.543096   41.514609    1.046261
 0.004094   0.625748   81.733728
 0.14085   12.543096   41.514609    1.046261
 0.004094   0.193787   92.513037
 0.28170   12.543096   41.514609    1.046261
 0.004094   0.324049   104.622826
 0.42255   12.543096   41.514609    1.046261
 0.004094   0.885596   130.505273
 0.56340   12.543096   41.514609    1.046261
 0.004094   1.448857   163.677923
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3705

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -4.922207   -82.481688    -1.343477
-0.002988   -0.811148   -9.748297
 0.14085   -4.922207   -82.481688    -1.343477
-0.002988   -0.252931   -5.016279
 0.28170   -4.922207   -82.481688    -1.343477
-0.002988   -0.253431   -3.352198
 0.42255   -4.922207   -82.481688    -1.343477
-0.002988   -0.690411   -3.964239
 0.56340   -4.922207   -82.481688    -1.343477
-0.002988   -1.129123   -20.230890

COMB DL-G2-3 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   17.947127   40.723127    1.486056
 0.004217   0.887266   82.263158
 0.14085   17.947127   40.723127    1.486056
 0.004217   0.270181   105.572934
 0.28170   17.947127   40.723127    1.486056
 0.004217   0.450360   131.292167
 0.42255   17.947127   40.723127    1.486056
 0.004217   1.230164   169.874331
 0.56340   17.947127   40.723127    1.486056
 0.004217   2.011522   215.785443

COMB DL-G2-3 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -5.236087   -112.571255    -1.863518
-0.003143   -1.120417   -13.604157
 0.14085   -5.236087   -112.571255    -1.863518
-0.003143   -0.343377   -7.768179
 0.28170   -5.236087   -112.571255    -1.863518
-0.003143   -0.359607   -6.443622
 0.42255   -5.236087   -112.571255    -1.863518
-0.003143   -0.981318   -7.267412
 0.56340   -5.236087   -112.571255    -1.863518
-0.003143   -1.604620   -23.831190

COMB DL-G2-4 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   15.208800   69.385451    1.860115
 0.003206   1.110384   68.857809
 0.14085   15.208800   69.385451    1.860115
 0.003206   0.333844   98.229926
 0.28170   15.208800   69.385451    1.860115
 0.003206   0.546150   129.980356
 0.42255   15.208800   69.385451    1.860115
 0.003206   1.494171   170.097328
 0.56340   15.208800   69.385451    1.860115
 0.003206   2.443083   215.004763

COMB DL-G2-4 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -9.703192   -109.248202    -2.262582
-0.002584   -1.355002   -19.211310
 0.14085   -9.703192   -109.248202    -2.262582
-0.002584   -0.408457   -31.860074
 0.28170   -9.703192   -109.248202    -2.262582
-0.002584   -0.449583   -48.601349
 0.42255   -9.703192   -109.248202    -2.262582
-0.002584   -1.228870   -67.670244
 0.56340   -9.703192   -109.248202    -2.262582
-0.002584   -2.009083   -96.008411

COMB DL-G3-1 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000    0.284074   99.555438    1.030930
 0.000930   0.616114   2.441611
 0.14085    0.284074   99.555438    1.030930
 0.000930   0.183734   4.196515
 0.28170    0.284074   99.555438    1.030930
 0.000930   0.282134   6.245367
 0.42255    0.284074   99.555438    1.030930
 0.000930   0.774830   8.469467
 0.56340    0.284074   99.555438    1.030930
 0.000930   1.267252   10.745047
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3706

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -11.100874   -5.475683    -1.173702
-0.000955   -0.700751   -30.300555
 0.14085   -11.100874   -5.475683    -1.173702
-0.000955   -0.208078   -71.485909
 0.28170   -11.100874   -5.475683    -1.173702
-0.000955   -0.248359   -112.877512
 0.42255   -11.100874   -5.475683    -1.173702
-0.000955   -0.680767   -154.516829
 0.56340    -11.100874   -5.475683    -1.173702
-0.000955   -1.113206   -196.252177

COMB DL-G3-2 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000    0.942415   159.721212    1.581764
 0.005993   0.946604   88.357605
 0.14085    0.942415   159.721212    1.581764
 0.005993   0.233063   72.670918
 0.28170    0.942415   159.721212    1.581764
 0.005993   0.435545   58.714889
 0.42255    0.942415   159.721212    1.581764
 0.005993   1.198013   62.489479
 0.56340    0.942415   159.721212    1.581764
 0.005993   1.962431   75.750899

COMB DL-G3-2 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -18.762951   -35.395340    -1.822013
-0.004535   -1.103747   -30.210188
 0.14085   -18.762951   -35.395340    -1.822013
-0.004535   -0.346068   -70.023623
 0.28170   -18.762951   -35.395340    -1.822013
-0.004535   -0.382521   -112.911189
 0.42255   -18.762951   -35.395340    -1.822013
-0.004535   -1.043346   -158.120459
 0.56340   -18.762951   -35.395340    -1.822013
-0.004535   -1.706826   -223.540207

COMB DL-G3-3 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000    7.606585   132.277231    1.829102
 0.004812   1.093797   77.496406
 0.14085    7.606585   132.277231    1.829102
 0.004812   0.333563   82.703487
 0.28170    7.606585   132.277231    1.829102
 0.004812   0.526364   88.818352
 0.42255    7.606585   132.277231    1.829102
 0.004812   1.443457   108.637205
 0.56340    7.606585   132.277231    1.829102
 0.004812   2.361906   135.397371

COMB DL-G3-3 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -15.489513   -66.320630    -2.189743
-0.003744   -1.317628   -28.449692
 0.14085   -15.489513   -66.320630    -2.189743
-0.003744   -0.403850   -63.761926
 0.28170   -15.489513   -66.320630    -2.189743
-0.003744   -0.442179   -101.373794
 0.42255   -15.489513   -66.320630    -2.189743
-0.003744   -1.207455   -141.222279
 0.56340   -15.489513   -66.320630    -2.189743
-0.003744   -1.974572   -195.589950

COMB DL-G3-4 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   14.757225   112.372460    1.959179
 0.004406   1.170808   71.169349
 0.14085   14.757225   112.372460    1.959179
 0.004406   0.354944   87.080773
 0.28170   14.757225   112.372460    1.959179
 0.004406   0.572768   105.075774
 0.42255   14.757225   112.372460    1.959179
 0.004406   1.568010   135.134389
 0.56340   14.757225   112.372460    1.959179
 0.004406   2.564491   171.876921
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3707

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -13.488163   -90.388080    -2.375807
-0.003460   -1.426193   -32.284190
 0.14085   -13.488163   -90.388080    -2.375807
-0.003460   -0.433612   -58.382051
 0.28170   -13.488163   -90.388080    -2.375807
-0.003460   -0.473190   -88.087710
 0.42255   -13.488163   -90.388080    -2.375807
-0.003460   -1.293287   -128.176572
 0.56340   -13.488163   -90.388080    -2.375807
-0.003460   -2.115061   -166.865961

COMB DB ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000    9.875164   100.816459    1.086841
 0.006131   0.649426   77.471463
 0.14085    9.875164   100.816459    1.086841
 0.006131   0.198170   87.003516
 0.28170    9.875164   100.816459    1.086841
 0.006131   0.287101   102.375007
 0.42255    9.875164   100.816459    1.086841
 0.006131   0.785492   129.595278
 0.56340    9.875164   100.816459    1.086841
 0.006131   1.283824   160.998922

COMB DB ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -12.760685   -76.793698    -1.188240
-0.004921   -0.711360   -19.703988
 0.14085   -12.760685   -76.793698    -1.188240
-0.004921   -0.220615   -33.112933
 0.28170   -12.760685   -76.793698    -1.188240
-0.004921   -0.262175   -53.945509
 0.42255   -12.760685   -76.793698    -1.188240
-0.004921   -0.718001   -75.955201
 0.56340   -12.760685   -76.793698    -1.188240
-0.004921   -1.173808   -115.010058

COMB DL ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   17.947127   159.721212    1.959179
 0.005993   1.170808   88.357605
 0.14085   17.947127   159.721212    1.959179
 0.005993   0.354944   114.031000
 0.28170   17.947127   159.721212    1.959179
 0.005993   0.572768   149.006361
 0.42255   17.947127   159.721212    1.959179
 0.005993   1.568010   193.576611
 0.56340   17.947127   159.721212    1.959179
 0.005993   2.564491   243.882520

COMB DL ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -18.762951   -122.644234    -2.375807
-0.004535   -1.426193   -32.284190
 0.14085   -18.762951   -122.644234    -2.375807
-0.004535   -0.433612   -71.485909
 0.28170   -18.762951   -122.644234    -2.375807
-0.004535   -0.473190   -112.911189
 0.42255   -18.762951   -122.644234    -2.375807
-0.004535   -1.293287   -158.120459
 0.56340   -18.762951   -122.644234    -2.375807
-0.004535   -2.115061   -223.540207

COMB CAR ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   17.947127   159.721212    1.959179
 0.006131   1.170808   88.357605
 0.14085   17.947127   159.721212    1.959179
 0.006131   0.354944   114.031000
 0.28170   17.947127   159.721212    1.959179
 0.006131   0.572768   149.006361
 0.42255   17.947127   159.721212    1.959179
 0.006131   1.568010   193.576611
 0.56340   17.947127   159.721212    1.959179
 0.006131   2.564491   243.882520
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3708

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB CAR ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -18.762951   -122.644234    -2.375807
-0.004921   -1.426193   -32.284190
 0.14085   -18.762951   -122.644234    -2.375807
-0.004921   -0.433612   -71.485909
 0.28170   -18.762951   -122.644234    -2.375807
-0.004921   -0.473190   -112.911189
 0.42255   -18.762951   -122.644234    -2.375807
-0.004921   -1.293287   -158.120459
 0.56340   -18.762951   -122.644234    -2.375807
-0.004921   -2.115061   -223.540207

COMB DESIGN ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   17.947127   159.721212    1.959179
 0.006131   1.170808   88.357605
 0.14085   17.947127   159.721212    1.959179
 0.006131   0.354944   114.031000
 0.28170   17.947127   159.721212    1.959179
 0.006131   0.572768   149.006361
 0.42255   17.947127   159.721212    1.959179
 0.006131   1.568010   193.576611
 0.56340   17.947127   159.721212    1.959179
 0.006131   2.564491   243.882520

COMB DESIGN ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.00000   -18.762951   -122.644234    -2.375807
-0.004921   -1.426193   -32.284190
 0.14085   -18.762951   -122.644234    -2.375807
-0.004921   -0.433612   -71.485909
 0.28170   -18.762951   -122.644234    -2.375807
-0.004921   -0.473190   -112.911189
 0.42255   -18.762951   -122.644234    -2.375807
-0.004921   -1.293287   -158.120459
 0.56340   -18.762951   -122.644234    -2.375807
-0.004921   -2.115061   -223.540207

ELEM      354 ================== LENGTH
=     2.976714

COMB DB-G1-1 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.43672    2.785865    2.912332    0.330146
 0.001170   0.366751    3.315761
 0.57754    2.785865    2.912332    0.330146
 0.001170   0.228361    2.440444
 0.71836    2.785865    2.912332    0.330146
 0.001170   0.089952    2.502668
 0.85918    2.785865    2.912332    0.330146
 0.001170   0.054674    3.423507
 1.00000    2.785865    2.912332    0.330146
 0.001170   0.220188    7.744028

COMB DB-G1-1 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.43672   -0.784479   -22.323708    -0.394745
-0.000446   -0.441706   -30.126125
 0.57754   -0.784479   -22.323708    -0.394745
-0.000446   -0.276237   -20.813303
 0.71836   -0.784479   -22.323708    -0.394745
-0.000446   -0.110771   -12.929248
 0.85918   -0.784479   -22.323708    -0.394745
-0.000446   -0.048397   -11.977723
 1.00000   -0.784479   -22.323708    -0.394745
-0.000446   -0.186632   -11.298509

COMB DB-G1-2 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.43672    5.962028    5.149123    0.533101
 0.002164   0.593023    6.088911
 0.57754    5.962028    5.149123    0.533101
 0.002164   0.369559    4.211053
 0.71836    5.962028    5.149123    0.533101
 0.002164   0.146066    3.661545
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3709

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST        P          V2          V3
     T          M2         M3
 0.85918    5.962028    5.149123    0.533101
 0.002164   0.112464    4.511139
 1.00000    5.962028    5.149123    0.533101
 0.002164   0.441838   14.103053

COMB DB-G1-2 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.43672   -0.828860   -46.143733    -0.786494
-0.000735   -0.877389   -71.933603
 0.57754   -0.828860   -46.143733    -0.786494
-0.000735   -0.547733   -54.447128
 0.71836   -0.828860   -46.143733    -0.786494
-0.000735   -0.218106   -39.440562
 0.85918   -0.828860   -46.143733    -0.786494
-0.000735   -0.078015   -34.563490
 1.00000   -0.828860   -46.143733    -0.786494
-0.000735   -0.301420   -30.408670

COMB DB-G1-3 ---------- MAX

REL DIST        P          V2          V3
     T          M2         M3
 0.43672    6.664225   30.753070    0.688738
 0.001853   0.767875   67.157616
 0.57754    6.664225   30.753070    0.688738
 0.001853   0.479171   54.689795
 0.71836    6.664225   30.753070    0.688738
 0.001853   0.190397   43.225427
 0.85918    6.664225   30.753070    0.688738
 0.001853   0.155924   32.620292
 1.00000    6.664225   30.753070    0.688738
 0.001853   0.617662   32.096253

COMB DB-G1-3 ---------- MIN

REL DIST        P          V2          V3
     T          M2         M3
 0.43672   -2.883059   -58.127515    -1.101406
-0.000504   -1.229108   -90.808474
 0.57754   -2.883059   -58.127515    -1.101406
-0.000504   -0.767432   -67.334790
 0.71836   -2.883059   -58.127515    -1.101406
-0.000504   -0.305791   -45.553111
 0.85918   -2.883059   -58.127515    -1.101406
-0.000504   -0.098154   -32.564798
 1.00000   -2.883059   -58.127515    -1.101406
-0.000504   -0.386985   -21.318438
```

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	9.746263	37.940320	0.791002
0.005033	0.881477	79.053785	
0.57754	9.746263	37.940320	0.791002
0.005033	0.549905	64.321005	
0.71836	9.746263	37.940320	0.791002
0.005033	0.218263	54.398059	
0.85918	9.746263	37.940320	0.791002
0.005033	0.186002	62.112677	
1.00000	9.746263	37.940320	0.791002
0.005033	0.698442	89.071650	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-4.182069	-120.445323	-1.231827
-0.004209	-1.375638	-134.547326	
0.57754	-4.182069	-120.445323	-1.231827
-0.004209	-0.859305	-85.006713	
0.71836	-4.182069	-120.445323	-1.231827
-0.004209	-0.343036	-46.793886	
0.85918	-4.182069	-120.445323	-1.231827
-0.004209	-0.127232	-27.423396	
1.00000	-4.182069	-120.445323	-1.231827
-0.004209	-0.455573	-20.863985	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	3.366934	6.341839	0.222785
0.000782	0.249472	11.110043	

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.57754	3.366934	6.341839	0.222785
0.000782	0.156094	9.381182	
0.71836	3.366934	6.341839	0.222785
0.000782	0.062705	7.892316	
0.85918	3.366934	6.341839	0.222785
0.000782	0.067552	6.501887	
1.00000	3.366934	6.341839	0.222785
0.000782	0.262481	8.472430	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.758139	-25.956532	-0.465446
-5.51E-05	-0.518034	-48.250118	
0.57754	-0.758139	-25.956532	-0.465446
-5.51E-05	-0.322935	-38.543246	
0.71836	-0.758139	-25.956532	-0.465446
-5.51E-05	-0.127856	-29.469183	
0.85918	-0.758139	-25.956532	-0.465446
-5.51E-05	-0.030744	-21.634720	
1.00000	-0.758139	-25.956532	-0.465446
-5.51E-05	-0.124119	-17.538870	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	7.407143	33.387244	0.466530
0.005227	0.521312	80.167336	
0.57754	7.407143	33.387244	0.466530
0.005227	0.325752	67.521458	
0.71836	7.407143	33.387244	0.466530
0.005227	0.130137	59.725074	
0.85918	7.407143	33.387244	0.466530
0.005227	0.142711	73.552170	
1.00000	7.407143	33.387244	0.466530
0.005227	0.507085	92.354936	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-2.986040	-98.291934	-0.882069
-0.004493	-0.983751	-101.323791	
0.57754	-2.986040	-98.291934	-0.882069
-0.004493	-0.614027	-61.339088	
0.71836	-2.986040	-98.291934	-0.882069
-0.004493	-0.244329	-35.287756	
0.85918	-2.986040	-98.291934	-0.882069
-0.004493	-0.084666	-21.634895	
1.00000	-2.986040	-98.291934	-0.882069
-0.004493	-0.275665	-10.154836	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	9.132938	32.002342	0.668983
0.005606	0.745973	74.066979	
0.57754	9.132938	32.002342	0.668983
0.005606	0.465552	61.856759	
0.71836	9.132938	32.002342	0.668983
0.005606	0.185071	54.772505	
0.85918	9.132938	32.002342	0.668983
0.005606	0.176738	67.324925	
1.00000	9.132938	32.002342	0.668983
0.005606	0.647694	87.920012	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-2.886160	-107.434210	-1.134996
-0.004378	-1.266135	-117.890610	
0.57754	-2.886160	-107.434210	-1.134996
-0.004378	-0.790387	-73.782579	
0.71836	-2.886160	-107.434210	-1.134996
-0.004378	-0.314658	-43.828842	
0.85918	-2.886160	-107.434210	-1.134996
-0.004378	-0.112656	-30.820896	
1.00000	-2.886160	-107.434210	-1.134996
-0.004378	-0.389046	-19.776620	

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	9.363019	48.435631	0.816331
0.004185	0.910143	93.251743	
0.57754	9.363019	48.435631	0.816331
0.004185	0.567956	73.982322	
0.71836	9.363019	48.435631	0.816331
0.004185	0.225698	58.582306	
0.85918	9.363019	48.435631	0.816331
0.004185	0.188489	57.738118	
1.00000	9.363019	48.435631	0.816331
0.004185	0.715421	75.774361	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-5.175265	-112.139411	-1.264775
-0.003828	-1.412319	-134.442739	
0.57754	-5.175265	-112.139411	-1.264775
-0.003828	-0.882165	-88.250102	
0.71836	-5.175265	-112.139411	-1.264775
-0.003828	-0.352098	-51.683838	
0.85918	-5.175265	-112.139411	-1.264775
-0.003828	-0.127749	-27.540643	
1.00000	-5.175265	-112.139411	-1.264775
-0.003828	-0.467353	-22.421366	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	2.274626	44.971146	0.458194
0.000345	0.510649	64.159489	
0.57754	2.274626	44.971146	0.458194
0.000345	0.318584	45.396812	
0.71836	2.274626	44.971146	0.458194
0.000345	0.126497	26.744775	
0.85918	2.274626	44.971146	0.458194
0.000345	0.068530	8.565209	
1.00000	2.274626	44.971146	0.458194
0.000345	0.273720	2.469641	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-5.110317	-16.395653	-0.492264
-0.001390	-0.551682	-38.245846	
0.57754	-5.110317	-16.395653	-0.492264
-0.001390	-0.345386	-31.486663	
0.71836	-5.110317	-16.395653	-0.492264
-0.001390	-0.139127	-24.799092	
0.85918	-5.110317	-16.395653	-0.492264
-0.001390	-0.065495	-18.295183	
1.00000	-5.110317	-16.395653	-0.492264
-0.001390	-0.257631	-13.428310	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	7.315843	63.575760	0.689278
0.005975	0.767754	113.476500	
0.57754	7.315843	63.575760	0.689278
0.005975	0.478824	88.198707	
0.71836	7.315843	63.575760	0.689278
0.005975	0.189848	68.937150	
0.85918	7.315843	63.575760	0.689278
0.005975	0.139956	75.755190	
1.00000	7.315843	63.575760	0.689278
0.005975	0.494841	93.973625	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-6.975363	-107.224000	-0.862441
-0.007027	-0.965647	-102.719583	
0.57754	-6.975363	-107.224000	-0.862441
-0.007027	-0.604187	-58.105950	
0.71836	-6.975363	-107.224000	-0.862441
-0.007027	-0.242804	-30.142595	
0.85918	-6.975363	-107.224000	-0.862441
-0.007027	-0.122432	-16.915379	
1.00000	-6.975363	-107.224000	-0.862441
-0.007027	-0.405857	-14.876351	

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	8.146827	71.538543	0.811014
0.004519	0.905281	130.049965	
0.57754	8.146827	71.538543	0.811014
0.004519	0.565325	101.237080	
0.71836	8.146827	71.538543	0.811014
0.004519	0.225301	76.665590	
0.85918	8.146827	71.538543	0.811014
0.004519	0.178206	71.154184	
1.00000	8.146827	71.538543	0.811014
0.004519	0.665470	78.903782	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-7.621991	-104.000279	-1.173241
-0.005141	-1.311615	-122.053660	
0.57754	-7.621991	-104.000279	-1.173241
-0.005141	-0.819862	-78.727059	
0.71836	-7.621991	-104.000279	-1.173241
-0.005141	-0.328191	-46.916295	
0.85918	-7.621991	-104.000279	-1.173241
-0.005141	-0.213650	-25.307081	
1.00000	-7.621991	-104.000279	-1.173241
-0.005141	-0.466883	-14.637890	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	9.135819	61.233368	0.866046
0.004461	0.965797	110.554040	
0.57754	9.135819	61.233368	0.866046
0.004461	0.602769	85.995978	
0.71836	9.135819	61.233368	0.866046
0.004461	0.239680	65.282741	
0.85918	9.135819	61.233368	0.866046
0.004461	0.193027	60.332731	
1.00000	9.135819	61.233368	0.866046
0.004461	0.728628	68.789628	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-6.489473	-103.495743	-1.286832
-0.004455	-1.437216	-130.051532	
0.57754	-6.489473	-103.495743	-1.286832
-0.004455	-0.897840	-87.549298	
0.71836	-6.489473	-103.495743	-1.286832
-0.004455	-0.358562	-56.369293	
0.85918	-6.489473	-103.495743	-1.286832
-0.004455	-0.136535	-36.317159	
1.00000	-6.489473	-103.495743	-1.286832
-0.004455	-0.496506	-25.424993	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	5.171601	4.149247	0.673720
0.001315	0.748503	6.166041	
0.57754	5.171601	4.149247	0.673720
0.001315	0.463562	5.003712	
0.71836	5.171601	4.149247	0.673720
0.001315	0.183382	4.147641	
0.85918	5.171601	4.149247	0.673720
0.001315	0.118368	4.181988	
1.00000	5.171601	4.149247	0.673720
0.001315	0.467874	12.867863	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.891154	-35.040939	-0.834097
-0.000415	-0.930587	-53.736568	
0.57754	-0.891154	-35.040939	-0.834097
-0.000415	-0.580983	-39.322996	
0.71836	-0.891154	-35.040939	-0.834097
-0.000415	-0.231404	-25.597568	
0.85918	-0.891154	-35.040939	-0.834097
-0.000415	-0.097808	-15.196596	
1.00000	-0.891154	-35.040939	-0.834097
-0.000415	-0.380445	-12.468521	

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	10.328476	6.959032	1.036206
0.002286	1.154353	9.299181	
0.57754	10.328476	6.959032	1.036206
0.002286	0.919754	6.956428	
0.71836	10.328476	6.959032	1.036206
0.002286	0.285104	5.357292	
0.85918	10.328476	6.959032	1.036206
0.002286	0.231736	5.935969	
1.00000	10.328476	6.959032	1.036206
0.002286	0.899307	20.595716	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-1.101094	-72.207349	-1.593463
-0.000638	-1.772979	-123.697180	
0.57754	-1.101094	-72.207349	-1.593463
-0.000638	-1.105073	-94.641545	
0.71836	-1.101094	-72.207349	-1.593463
-0.000638	-0.437252	-66.580306	
0.85918	-1.101094	-72.207349	-1.593463
-0.000638	-0.147888	-43.210099	
1.00000	-1.101094	-72.207349	-1.593463
-0.000638	-0.582223	-31.365673	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	10.907502	27.725305	1.234493
0.001970	1.377118	62.101909	
0.57754	10.907502	27.725305	1.234493
0.001970	0.859464	52.825519	
0.71836	10.907502	27.725305	1.234493
0.001970	0.341621	44.509724	
0.85918	10.907502	27.725305	1.234493
0.001970	0.292339	37.554295	
1.00000	10.907502	27.725305	1.234493
0.001970	1.144660	46.283485	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-2.748189	-87.053323	-2.033366
-0.000482	-2.264903	-135.732691	
0.57754	-2.748189	-87.053323	-2.033366
-0.000482	-1.412569	-101.823609	
0.71836	-2.748189	-87.053323	-2.033366
-0.000482	-0.560006	-69.063867	
0.85918	-2.748189	-87.053323	-2.033366
-0.000482	-0.174259	-40.109497	
1.00000	-2.748189	-87.053323	-2.033366
-0.000482	-0.691797	-23.731418	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	12.441223	41.994132	1.474421
0.004402	1.640196	87.295210	
0.57754	12.441223	41.994132	1.474421
0.004402	1.022021	72.367388	
0.71836	12.441223	41.994132	1.474421
0.004402	0.405041	62.52102	
0.85918	12.441223	41.994132	1.474421
0.004402	0.338235	67.004010	
1.00000	12.441223	41.994132	1.474421
0.004402	1.299200	94.395026	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-5.095025	-132.832172	-2.296683
-0.003683	-2.559142	-163.862398	
0.57754	-5.095025	-132.832172	-2.296683
-0.003683	-1.596451	-110.850825	
0.71836	-5.095025	-132.832172	-2.296683
-0.003683	-0.634666	-65.913484	
0.85918	-5.095025	-132.832172	-2.296683
-0.003683	-0.223864	-33.825680	
1.00000	-5.095025	-132.832172	-2.296683
-0.003683	-0.811620	-23.058274	

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	5.145977	5.958169	0.370164
0.000761	0.415160	10.343141	
0.57754	5.145977	5.958169	0.370164
0.000761	0.260087	8.248644	
0.71836	5.145977	5.958169	0.370164
0.000761	0.104924	6.496323	
0.85918	5.145977	5.958169	0.370164
0.000761	0.123135	6.626660	
1.00000	5.145977	5.958169	0.370164
0.000761	0.471498	11.076681	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.702275	-38.846070	-0.831801
-4.77E-05	-0.923470	-69.938330	
0.57754	-0.702275	-38.846070	-0.831801
-4.77E-05	-0.574783	-54.368076	
0.71836	-0.702275	-38.846070	-0.831801
-4.77E-05	-0.226308	-39.202989	
0.85918	-0.702275	-38.846070	-0.831801
-4.77E-05	-0.049830	-25.816854	
1.00000	-0.702275	-38.846070	-0.831801
-4.77E-05	-0.204841	-16.894730	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	8.646780	29.328111	0.763314
0.004579	0.849360	72.154787	
0.57754	8.646780	29.328111	0.763314
0.004579	0.592474	62.666367	
0.71836	8.646780	29.328111	0.763314
0.004579	0.211549	60.403478	
0.85918	8.646780	29.328111	0.763314
0.004579	0.230895	75.016330	
1.00000	8.646780	29.328111	0.763314
0.004579	0.847092	96.080871	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-2.829781	-105.830367	-1.476481
-0.004163	-1.640809	-114.637742	
0.57754	-2.829781	-105.830367	-1.476481
-0.004163	-1.021803	-73.209331	
0.71836	-2.829781	-105.830367	-1.476481
-0.004163	-0.404904	-43.235703	
0.85918	-2.829781	-105.830367	-1.476481
-0.004163	-0.127103	-24.483365	
1.00000	-2.829781	-105.830367	-1.476481
-0.004163	-0.446212	-10.646263	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	12.321598	28.838212	1.166604
0.005130	1.298692	68.333920	
0.57754	12.321598	28.838212	1.166604
0.005130	0.809642	58.735150	
0.71836	12.321598	28.838212	1.166604
0.005130	0.322328	56.190303	
0.85918	12.321598	28.838212	1.166604
0.005130	0.310050	69.091341	
1.00000	12.321598	28.838212	1.166604
0.005130	1.160897	94.102564	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-2.847836	-126.185221	-2.035865
-0.004055	-2.263802	-153.638180	
0.57754	-2.847836	-126.185221	-2.035865
-0.004055	-1.410427	-103.311688	
0.71836	-2.847836	-126.185221	-2.035865
-0.004055	-0.558773	-64.300881	
0.85918	-2.847836	-126.185221	-2.035865
-0.004055	-0.182577	-37.667389	
1.00000	-2.847836	-126.185221	-2.035865
-0.004055	-0.670965	-20.545737	

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	11.612220	58.410612	1.493581
0.003665	1.662888	107.505604	
0.57754	11.612220	58.410612	1.493581
0.003665	1.036724	85.186854	
0.71836	11.612220	58.410612	1.493581
0.003665	0.411423	67.563183	
0.85918	11.612220	58.410612	1.493581
0.003665	0.348080	60.540561	
1.00000	11.612220	58.410612	1.493581
0.003665	1.347517	79.175346	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-6.841096	-123.635414	-2.387135
-0.003502	-2.661092	-159.007448	
0.57754	-6.841096	-123.635414	-2.387135
-0.003502	-1.660286	-109.340367	
0.71836	-6.841096	-123.635414	-2.387135
-0.003502	-0.660374	-66.934718	
0.85918	-6.841096	-123.635414	-2.387135
-0.003502	-0.223515	-33.229704	
1.00000	-6.841096	-123.635414	-2.387135
-0.003502	-0.849310	-25.223330	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	1.987260	72.535023	0.862296
0.000301	0.958970	97.177220	
0.57754	1.987260	72.535023	0.862296
0.000301	0.597511	66.953562	
0.71836	1.987260	72.535023	0.862296
0.000301	0.235954	36.969547	
0.85918	1.987260	72.535023	0.862296
0.000301	0.153087	8.841651	
1.00000	1.987260	72.535023	0.862296
0.000301	0.624519	3.099726	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-8.454849	-15.983651	-1.124288
-0.001569	-1.259745	-33.945753	
0.57754	-8.454849	-15.983651	-1.124288
-0.001569	-0.788333	-27.414571	
0.71836	-8.454849	-15.983651	-1.124288
-0.001569	-0.316927	-21.055744	
0.85918	-8.454849	-15.983651	-1.124288
-0.001569	-0.124912	-16.356171	
1.00000	-8.454849	-15.983651	-1.124288
-0.001569	-0.486730	-30.699066	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	6.810007	91.204545	1.315834
0.005981	1.457156	148.981173	
0.57754	6.810007	91.204545	1.315834
0.005981	0.905682	111.765549	
0.71836	6.810007	91.204545	1.315834
0.005981	0.357099	83.700446	
0.85918	6.810007	91.204545	1.315834
0.005981	0.269133	80.394218	
1.00000	6.810007	91.204545	1.315834
0.005981	1.009212	101.628410	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-10.686857	-104.249206	-1.773892
-0.007608	-1.980687	-95.793348	
0.57754	-10.686857	-104.249206	-1.773892
-0.007608	-1.236933	-53.380313	
0.71836	-10.686857	-104.249206	-1.773892
-0.007608	-0.496123	-25.896244	
0.85918	-10.686857	-104.249206	-1.773892
-0.007608	-0.220802	-14.983573	
1.00000	-10.686857	-104.249206	-1.773892
-0.007608	-0.771713	-28.780635	

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	8.701552	92.104970	1.446083
0.004651	1.607171	152.279188	
0.57754	8.701552	92.104970	1.446083
0.004651	1.001049	116.013542	
0.71836	8.701552	92.104970	1.446083
0.004651	0.396968	87.378901	
0.85918	8.701552	92.104970	1.446083
0.004651	0.328472	76.933439	
1.00000	8.701552	92.104970	1.446083
0.004651	1.258441	91.381858	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-10.634732	-111.238739	-2.223861
-0.005787	-2.481880	-121.638799	
0.57754	-10.634732	-111.238739	-2.223861
-0.005787	-1.549741	-77.007060	
0.71836	-10.634732	-111.238739	-2.223861
-0.005787	-0.619420	-44.513605	
0.85918	-10.634732	-111.238739	-2.223861
-0.005787	-0.227811	-24.003124	
1.00000	-10.634732	-111.238739	-2.223861
-0.005787	-0.833542	-27.411888	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	11.462595	78.905973	1.559445

```
 0.004657    1.734933  129.900978
 0.57754    11.462595   78.905973    1.559445
 0.004657    1.081166   99.015144
 0.71836    11.462595   78.905973    1.559445
 0.004657    0.429233   74.584636
 0.85918    11.462595   78.905973    1.559445
 0.004657    0.366096   65.394408
 1.00000    11.462595   78.905973    1.559445
 0.004657    1.404272   81.363555

COMB DL-G3-4 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -9.065409 -121.337987   -2.480972
-0.004983   -2.765412 -153.897845
 0.57754   -9.065409 -121.337987   -2.480972
-0.004983   -1.725508 -105.058336
 0.71836   -9.065409 -121.337987   -2.480972
-0.004983   -0.687131  -67.017781
 0.85918   -9.065409 -121.337987   -2.480972
-0.004983   -0.239283  -39.800336
 1.00000   -9.065409 -121.337987   -2.480972
-0.004983   -0.892589  -36.075587

COMB       DB ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672    9.746263   71.538543    0.866046
 0.005975    0.965797  130.049965
 0.57754    9.746263   71.538543    0.866046
 0.005975    0.962769  101.237580
 0.71836    9.746263   71.538543    0.866046
 0.005975    0.239680   76.665590
 0.85918    9.746263   71.538543    0.866046
 0.005975    0.193027   75.755190
 1.00000    9.746263   71.538543    0.866046
 0.005975    0.728628   93.973625

COMB       DB ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   -7.621991 -120.445323   -1.286832
-0.007027   -1.137216 -134.547326
 0.57754   -7.621991 -120.445323   -1.286832
-0.007027   -0.897840  -88.250102
 0.71836   -7.621991 -120.445323   -1.286832
-0.007027   -0.358562  -56.369293
 0.85918   -7.621991 -120.445323   -1.286832
-0.007027   -0.136535  -36.317159
 1.00000   -7.621991 -120.445323   -1.286832
-0.007027   -0.496506  -30.408670
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3717

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   12.441223   92.104970    1.559445
 0.005981    1.734933  152.279188
 0.57754   12.441223   92.104970    1.559445
 0.005981    1.081166  116.013542
 0.71836   12.441223   92.104970    1.559445
 0.005981    0.429233   87.378901
 0.85918   12.441223   92.104970    1.559445
 0.005981    0.366096   80.394218
 1.00000   12.441223   92.104970    1.559445
 0.005981    1.404272  101.628410

COMB       DL ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672  -10.686857 -132.832172   -2.480972
-0.007608   -2.765412 -163.862398
 0.57754  -10.686857 -132.832172   -2.480972
-0.007608   -1.725508 -110.850825
 0.71836  -10.686857 -132.832172   -2.480972
-0.007608   -0.687131  -69.063867
 0.85918  -10.686857 -132.832172   -2.480972
-0.007608   -0.239283  -43.210099
 1.00000  -10.686857 -132.832172   -2.480972
-0.007608   -0.892589  -36.075587

COMB       CAR ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   12.441223   92.104970    1.559445
 0.005981    1.734933  152.279188
 0.57754   12.441223   92.104970    1.559445
 0.005981    1.081166  116.013542
 0.71836   12.441223   92.104970    1.559445
 0.005981    0.429233   87.378901
 0.85918   12.441223   92.104970    1.559445
 0.005981    0.366096   80.394218
 1.00000   12.441223   92.104970    1.559445
 0.005981    1.404272  101.628410

COMB       CAR ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672  -10.686857 -132.832172   -2.480972
-0.007608   -2.765412 -163.862398
 0.57754  -10.686857 -132.832172   -2.480972
-0.007608   -1.725508 -110.850825
 0.71836  -10.686857 -132.832172   -2.480972
-0.007608   -0.687131  -69.063867
 0.85918  -10.686857 -132.832172   -2.480972
-0.007608   -0.239283  -43.210099
 1.00000  -10.686857 -132.832172   -2.480972
-0.007608   -0.892589  -36.075587

COMB    DESIGN ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43672   12.441223   92.104970    1.559445
 0.005981    1.734933  152.279188
 0.57754   12.441223   92.104970    1.559445
 0.005981    1.081166  116.013542
 0.71836   12.441223   92.104970    1.559445
 0.005981    0.429233   87.378901
 0.85918   12.441223   92.104970    1.559445
 0.005981    0.366096   80.394218
 1.00000   12.441223   92.104970    1.559445
 0.005981    1.404272  101.628410

COMB    DESIGN ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43672  -10.686857 -132.832172   -2.480972
-0.007608   -2.765412 -163.862398
 0.57754  -10.686857 -132.832172   -2.480972
-0.007608   -1.725508 -110.850825
 0.71836  -10.686857 -132.832172   -2.480972
-0.007608   -0.687131  -69.063867
 0.85918  -10.686857 -132.832172   -2.480972
-0.007608   -0.239283  -43.210099
 1.00000  -10.686857 -132.832172   -2.480972
-0.007608   -0.892589  -36.075587
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3718

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       355 ================== LENGTH
=     2.977709

COMB DB-G1-1 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    2.769536    2.965436    0.312613
 0.000845    0.172952    7.751556
 0.14086    2.769536    2.965436    0.312613
 0.000845    0.041825   16.920732
 0.28171    2.769536    2.965436    0.312613
 0.000845    0.109730   26.210520
 0.42257    2.769536    2.965436    0.312613
 0.000845    0.272820   35.532787
 0.56342    2.769536    2.965436    0.312613
 0.000845    0.435913   44.875399

COMB DB-G1-1 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.785048  -22.299029   -0.388855
-0.000327   -0.218608  -11.299092
 0.14086   -0.785048  -22.299029   -0.388855
-0.000327   -0.053497  -10.864407
 0.28171   -0.785048  -22.299029   -0.388855
-0.000327   -0.089281  -10.605425
 0.42257   -0.785048  -22.299029   -0.388855
-0.000327   -0.220416  -10.517287
 0.56342   -0.785048  -22.299029   -0.388855
-0.000327   -0.351533  -10.548273

COMB DB-G1-2 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    5.810595    6.789979    0.520121
 0.001660    0.291060   14.127462
 0.14086    5.810595    6.789979    0.520121
 0.001660    0.073443   28.870517
 0.28171    5.810595    6.789979    0.520121
 0.001660    0.213092   45.665836
 0.42257    5.810595    6.789979    0.520121
 0.001660    0.524143   63.447231
 0.56342    5.810595    6.789979    0.520121
 0.001660    0.835232   81.740430

COMB DB-G1-2 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.930362  -44.094959   -0.741749
-0.000556   -0.410305  -30.408301
 0.14086   -0.930362  -44.094959   -0.741749
-0.000556   -0.099372  -26.742689
 0.28171   -0.930362  -44.094959   -0.741749
-0.000556   -0.145671  -24.047711
 0.42257   -0.930362  -44.094959   -0.741749
-0.000556   -0.363790  -22.287294
 0.56342   -0.930362  -44.094959   -0.741749
-0.000556   -0.581931  -21.721588

COMB DB-G1-3 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    6.624740   30.372048    0.688066
 0.001883    0.385500   32.109786
 0.14086    6.624740   30.372048    0.688066
 0.001883    0.096893   44.826524
 0.28171    6.624740   30.372048    0.688066
 0.001883    0.299944   61.093444
 0.42257    6.624740   30.372048    0.688066
 0.001883    0.737434   82.432842
 0.56342    6.624740   30.372048    0.688066
 0.001883    1.174936  106.717252

COMB DB-G1-3 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -2.855124  -58.095742   -1.043113
-0.000350   -0.575475  -21.321622
 0.14086   -2.855124  -58.095742   -1.043113
-0.000350   -0.138085  -19.500597
 0.28171   -2.855124  -58.095742   -1.043113
-0.000350   -0.191864  -25.957863
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3719

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.42257   -2.855124  -58.095742   -1.043113
-0.000350   -0.480396  -34.891706
 0.56342   -2.855124  -58.095742   -1.043113
-0.000350   -0.768990  -44.549459

COMB DB-G1-4 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    7.477406   71.115286    0.784375
 0.004856    0.441949   89.298539
 0.14086    7.477406   71.115286    0.784375
 0.004856    0.120633   97.009556
 0.28171    7.477406   71.115286    0.784375
 0.004856    0.339373  107.584602
 0.42257    7.477406   71.115286    0.784375
 0.004856    0.836344  132.155680
 0.56342    7.477406   71.115286    0.784375
 0.004856    1.333336  165.738137

COMB DB-G1-4 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -6.118233  -81.874998   -1.185023
-0.003990   -0.669282  -20.859755
 0.14086   -6.118233  -81.874998   -1.185023
-0.003990   -0.173651  -23.848646
 0.28171   -6.118233  -81.874998   -1.185023
-0.003990   -0.219434  -33.793540
 0.42257   -6.118233  -81.874998   -1.185023
-0.003990   -0.548372  -45.715523
 0.56342   -6.118233  -81.874998   -1.185023
-0.003990   -0.877351  -69.260990

COMB DB-G2-1 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    3.340693    6.290536    0.240177
 0.000719    0.137389    8.478445
 0.14086    3.340693    6.290536    0.240177
 0.000719    0.036923   13.646905
 0.28171    3.340693    6.290536    0.240177
 0.000719    0.123665   21.221508
 0.42257    3.340693    6.290536    0.240177
 0.000719    0.300977   31.698716
 0.56342    3.340693    6.290536    0.240177
 0.000719    0.478362   42.320451

COMB DB-G2-1 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.755361  -25.822481   -0.422928
-9.20E-06   -0.231405  -17.538812
 0.14086   -0.755361  -25.822481   -0.422928
-9.20E-06   -0.054184  -15.277932
 0.28171   -0.755361  -25.822481   -0.422928
-9.20E-06   -0.064400  -14.826240
 0.42257   -0.755361  -25.822481   -0.422928
-9.20E-06   -0.165064  -15.445897
 0.56342   -0.755361  -25.822481   -0.422928
-9.20E-06   -0.265755  -16.711561

COMB DB-G2-2 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.289134   78.850994    0.481349
 0.005516    0.276187   92.661953
 0.14086    4.289134   78.850994    0.481349
 0.005516    0.084947   75.494921
 0.28171    4.289134   78.850994    0.481349
 0.005516    0.239982   62.131903
 0.42257    4.289134   78.850994    0.481349
 0.005516    0.588071   67.784584
 0.56342    4.289134   78.850994    0.481349
 0.005516    0.936174   85.650338

COMB DB-G2-2 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -5.631111  -45.059151   -0.829953
-0.004634   -0.475897  -10.145288
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3720

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.14086   -5.631111  -45.059151   -0.829953
-0.004634   -0.129588   -9.346095
 0.28171   -5.631111  -45.059151   -0.829953
-0.004634   -0.132298  -17.497967
 0.42257   -5.631111  -45.059151   -0.829953
-0.004634   -0.334081  -28.145850
 0.56342   -5.631111  -45.059151   -0.829953
-0.004634   -0.535958  -54.475283

COMB DB-G2-3 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    6.303436   73.101677    0.668585
 0.005642    0.378558   88.204154
 0.14086    6.303436   73.101677    0.668585
 0.005642    0.107646   80.517858
 0.28171    6.303436   73.101677    0.668585
 0.005642    0.308568   76.214473
 0.42257    6.303436   73.101677    0.668585
 0.005642    0.757225   89.116473
 0.56342    6.303436   73.101677    0.668585
 0.005642    1.205909  113.151773

COMB DB-G2-3 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -5.271091  -59.340006   -1.069786
-0.004430   -0.606784  -19.769389
 0.14086   -5.271091  -59.340006   -1.069786
-0.004430   -0.159736  -18.376475
 0.28171   -5.271091  -59.340006   -1.069786
-0.004430   -0.186502  -25.109305
 0.42257   -5.271091  -59.340006   -1.069786
-0.004430   -0.466839  -33.907637
 0.56342   -5.271091  -59.340006   -1.069786
-0.004430   -0.747248  -56.840309

COMB DB-G2-4 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    7.527371   75.305774    0.813942
 0.004158    0.458248   75.957215
 0.14086    7.527371   75.305774    0.813942
 0.004158    0.123044   85.788706
 0.28171    7.527371   75.305774    0.813942
 0.004158    0.348743   99.070291
 0.42257    7.527371   75.305774    0.813942
 0.004158    0.858580  124.606342
 0.56342    7.527371   75.305774    0.813942
 0.004158    1.368522  157.931024

COMB DB-G2-4 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -6.743096  -80.930346   -1.215850
-0.003611   -0.683143  -22.403562
 0.14086   -6.743096  -80.930346   -1.215850
-0.003611   -0.174452  -29.816708
 0.28171   -6.743096  -80.930346   -1.215850
-0.003611   -0.227298  -44.321317
 0.42257   -6.743096  -80.930346   -1.215850
-0.003611   -0.568641  -60.774829
 0.56342   -6.743096  -80.930346   -1.215850
-0.003611   -0.910020  -86.637580

COMB DB-G3-1 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    2.294628   45.035511    0.453225
 0.000337    0.063157   3.370518
 0.14086    2.294628   45.035511    0.453225
 0.000337    0.063002   3.370518
 0.28171    2.294628   45.035511    0.453225
 0.000337    0.142076   4.645525
 0.42257    2.294628   45.035511    0.453225
 0.000337    0.353304   11.304704
 0.56342    2.294628   45.035511    0.453225
 0.000337    0.564569   18.046936
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3721

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -5.128623  -16.627055   -0.503698
-0.001319   -0.280638  -13.411776
 0.14086   -5.128623  -16.627055   -0.503698
-0.001319   -0.069569  -31.296211
 0.28171   -5.128623  -16.627055   -0.503698
-0.001319   -0.127018  -49.592147
 0.42257   -5.128623  -16.627055   -0.503698
-0.001319   -0.317135  -68.222239
 0.56342   -5.128623  -16.627055   -0.503698
-0.001319   -0.507230  -87.027042

COMB DB-G3-2 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    3.580889  119.328951    0.675897
 0.005919    0.382292   94.333871
 0.14086    3.580889  119.328951    0.675897
 0.005919    0.111585   73.811276
 0.28171    3.580889  119.328951    0.675897
 0.005919    0.246273   60.415263
 0.42257    3.580889  119.328951    0.675897
 0.005919    0.611074   64.343158
 0.56342    3.580889  119.328951    0.675897
 0.005919    0.975947   80.415451

COMB DB-G3-2 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -10.240081  -42.888189   -0.869933
-0.007044   -0.507326  -14.859293
 0.14086  -10.240081  -42.888189   -0.869933
-0.007044   -0.144690  -34.402554
 0.28171  -10.240081  -42.888189   -0.869933
-0.007044   -0.190107  -55.302193
 0.42257  -10.240081  -42.888189   -0.869933
-0.007044   -0.473621  -79.372640
 0.56342  -10.240081  -42.888189   -0.869933
-0.007044   -0.757097 -122.772398

COMB DB-G3-3 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    5.578240  109.554100    0.819159
 0.004780    0.462909   79.155862
 0.14086    5.578240  109.554100    0.819159
 0.004780    0.128065   70.749941
 0.28171    5.578240  109.554100    0.819159
 0.004780    0.328643   68.088804
 0.42257    5.578240  109.554100    0.819159
 0.004780    0.811302   82.060319
 0.56342    5.578240  109.554100    0.819159
 0.004780    1.294034  106.309860

COMB DB-G3-3 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -9.847602  -59.931505   -1.150932
-0.005143   -0.653315  -14.613351
 0.14086   -9.847602  -59.931505   -1.150932
-0.005143   -0.172254  -32.291522
 0.28171   -9.847602  -59.931505   -1.150932
-0.005143   -0.228046  -58.429241
 0.42257   -9.847602  -59.931505   -1.150932
-0.005143   -0.571569  -86.339977
 0.56342   -9.847602  -59.931505   -1.150932
-0.005143   -0.915133 -127.198575

COMB DB-G3-4 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    6.997350   92.632368    0.866194
 0.004528    0.488358   69.002995
 0.14086    6.997350   92.632368    0.866194
 0.004528    0.133232   68.335751
 0.28171    6.997350   92.632368    0.866194
 0.004528    0.356064   73.232692
 0.42257    6.997350   92.632368    0.866194
 0.004528    0.876771   91.906491
 0.56342    6.997350   92.632368    0.866194
 0.004528    1.397571  119.214507
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3722

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -8.325599  -67.032368   -1.241719
-0.004389   -0.699453  -25.403401
 0.14086   -8.325599  -67.032368   -1.241719
-0.004389   -0.180086  -38.292702
 0.28171   -8.325599  -67.032368   -1.241719
-0.004389   -0.241486  -58.296514
 0.42257   -8.325599  -67.032368   -1.241719
-0.004389   -0.604731  -80.244224
 0.56342   -8.325599  -67.032368   -1.241719
-0.004389   -0.968027 -113.150916

COMB DL-G1-1 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    5.136077    4.182248    0.622111
 0.000927    0.340807   12.879896
 0.14086    5.136077    4.182248    0.622111
 0.000927    0.079980   26.234285
 0.28171    5.136077    4.182248    0.622111
 0.000927    0.229357   40.100999
 0.42257    5.136077    4.182248    0.622111
 0.000927    0.568475   54.178243
 0.56342    5.136077    4.182248    0.622111
 0.000927    0.907596   68.358357

COMB DL-G1-1 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.881440  -35.022285   -0.808588
-0.000288   -0.448983  -12.471916
 0.14086   -0.881440  -35.022285   -0.808588
-0.000288   -0.109841  -12.347353
 0.28171   -0.881440  -35.022285   -0.808588
-0.000288   -0.179896  -12.718634
 0.42257   -0.881440  -35.022285   -0.808588
-0.000288   -0.441033  -13.385733
 0.56342   -0.881440  -35.022285   -0.808588
-0.000288   -0.702066  -14.215962

COMB DL-G1-2 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   10.181281    7.917336    1.011316
 0.001738    0.562329   20.225153
 0.14086   10.181281    7.917336    1.011316
 0.001738    0.138859   44.721870
 0.28171   10.181281    7.917336    1.011316
 0.001738    0.425903   71.163725
 0.42257   10.181281    7.917336    1.011316
 0.001738    1.042469   98.624371
 0.56342   10.181281    7.917336    1.011316
 0.001738    1.659128  126.568404

COMB DL-G1-2 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.151928  -70.806718   -1.470377
-0.000435   -0.808529  -31.368585
 0.14086   -1.151928  -70.806718   -1.470377
-0.000435   -0.192454  -27.281083
 0.28171   -1.151928  -70.806718   -1.470377
-0.000435   -0.284992  -25.443690
 0.42257   -1.151928  -70.806718   -1.470377
-0.000435   -0.709023  -25.326418
 0.56342   -1.151928  -70.806718   -1.470377
-0.000435   -1.133361  -26.210126

COMB DL-G1-3 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   10.803753   27.395535    1.223186
 0.001937    0.681633   46.322960
 0.14086   10.803753   27.395535    1.223186
 0.001937    0.168871   71.307933
 0.28171   10.803753   27.395535    1.223186
 0.001937    0.547360  100.971069
 0.42257   10.803753   27.395535    1.223186
 0.001937    1.341635  133.749667
 0.56342   10.803753   27.395535    1.223186
 0.001937    2.135669  168.266440
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3723

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -2.701532  -86.818954   -1.893638
-0.000307   -1.040935  -23.738993
 0.14086   -2.701532  -86.818954   -1.893638
-0.000307   -0.246750  -21.287919
 0.28171   -2.701532  -86.818954   -1.893638
-0.000307   -0.343283  -26.972442
 0.42257   -2.701532  -86.818954   -1.893638
-0.000307   -0.656345  -35.236762
 0.56342   -2.701532  -86.818954   -1.893638
-0.000307   -1.369495  -44.157190

COMB DL-G1-4 ---------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   10.691757   67.404249    1.441067
```

```
 0.004285    0.811045   94.461027
0.14086   10.691757   67.404249    1.441067
 0.004285    0.209328  114.373622
0.28171   10.691757   67.404249    1.441067
 0.004285    0.627587  138.766569
0.42257   10.691757   67.404249    1.441067
 0.004285    1.546678  173.164146
0.56342   10.691757   67.404249    1.441067
 0.004285    2.466748  214.253149

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.668472 -103.933830   -2.194371
-0.003203   -1.224601  -23.053385
0.14086   -6.668472 -103.933830   -2.194371
-0.003203   -0.304493  -27.137737
0.28171   -6.668472 -103.933830   -2.194371
-0.003203   -0.405336  -38.506284
0.42257   -6.668472 -103.933830   -2.194371
-0.003203   -1.008550  -53.069211
0.56342   -6.668472 -103.933830   -2.194371
-0.003203   -1.612921  -78.249706

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.093131    5.877527    0.406720
0.000751    0.231965   11.092673
0.14086    5.093131    5.877527    0.406720
0.000751    0.061901   22.246819
0.28171    5.093131    5.877527    0.406720
0.000751    0.216563   35.875922
0.42257    5.093131    5.877527    0.406720
0.000751    0.522187   50.855294
0.56342    5.093131    5.877527    0.406720
0.000751    0.828120   66.068607

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.698472  -38.600863   -0.729395
-5.50E-06   -0.395918   -16.885321
0.14086   -0.698472  -38.600863   -0.729395
-5.50E-06   -0.090578  -13.930268
0.28171   -0.698472  -38.600863   -0.729395
-5.50E-06   -0.109202  -13.026053
0.42257   -0.698472  -38.600863   -0.729395
-5.50E-06   -0.279516  -13.556463
0.56342   -0.698472  -38.600863   -0.729395
-5.50E-06   -0.450126  -14.782504

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.003174   68.043124    0.786247
 0.005035    0.457074   96.161494
0.14086    6.003174   68.043124    0.786247
 0.005035    0.131789   91.176740
0.28171    6.003174   68.043124    0.786247
 0.005035    0.395641   90.508540
0.42257    6.003174   68.043124    0.786247
 0.005035    0.966850  104.075506
0.56342    6.003174   68.043124    0.786247
 0.005035    1.539752  127.127348
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3724

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.221035  -61.313837   -1.366955
-0.003957   -0.769571  -10.644521
0.14086   -5.221035  -61.313837   -1.366955
-0.003957   -0.196810   -9.311569
0.28171   -5.221035  -61.313837   -1.366955
-0.003957   -0.215645  -15.672228
0.42257   -5.221035  -61.313837   -1.366955
-0.003957   -0.543201  -25.571042
0.56342   -5.221035  -61.313837   -1.366955
-0.003957   -0.872748  -51.234001

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.896545   63.905482    1.172574
 0.005272    0.668899   94.186539
0.14086    9.896545   63.905482    1.172574
 0.005272    0.181349  101.447480
0.28171    9.896545   63.905482    1.172574
 0.005272    0.545915  112.814499
0.42257    9.896545   63.905482    1.172574
 0.005272    1.335967  137.221459
0.56342    9.896545   63.905482    1.172574
 0.005272    2.127511  170.228712

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.003774  -85.833279   -1.888082
-0.003788   -1.054708  -20.546717
0.14086   -5.003774  -85.833279   -1.888082
-0.003788   -0.263489  -19.064694
0.28171   -5.003774  -85.833279   -1.888082
-0.003788   -0.325807  -24.650002
0.42257   -5.003774  -85.833279   -1.888082
-0.003788   -0.387944  -33.854888
0.56342   -5.003774  -85.833279   -1.888082
-0.003788   -1.307513  -56.357817

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.159303   79.530599    1.479189
 0.003703    0.833472   79.229280
0.14086   10.159303   79.530599    1.479189
 0.003703    0.215674  100.435705
0.28171   10.159303   79.530599    1.479189
 0.003703    0.597918  125.609777
0.42257   10.159303   79.530599    1.479189
 0.003703    1.611753  159.509116
0.56342   10.159303   79.530599    1.479189
 0.003703    2.570292  199.028086

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -8.158228  -99.686021   -2.285566
-0.003051   -1.272388  -25.206194
0.14086   -8.158228  -99.686021   -2.285566
-0.003051   -0.313807  -37.566385
0.28171   -8.158228  -99.686021   -2.285566
-0.003051   -0.413598  -56.571016
0.42257   -8.158228  -99.686021   -2.285566
-0.003051   -1.033012  -78.150683
0.56342   -8.158228  -99.686021   -2.285566
-0.003051   -1.653467 -108.520457

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    2.008769   72.713965    0.832169
 0.000290    0.463382    3.095782
0.14086    2.008769   72.713965    0.832169
 0.000290    0.114299    4.379926
0.28171    2.008769   72.713965    0.832169
 0.000290    0.323610    8.162403
0.42257    2.008769   72.713965    0.832169
 0.000290    0.809036   14.557430
0.56342    2.008769   72.713965    0.832169
 0.000290    1.294337   21.152634

Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3725

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -8.501185  -16.203829   -1.156961
-0.001460   -0.645903  -30.670634
0.14086   -8.501185  -16.203829   -1.156961
-0.001460   -0.160137  -58.319994
0.28171   -8.501185  -16.203829   -1.156961
-0.001460   -0.234514  -87.239499
0.42257   -8.501185  -16.203829   -1.156961
-0.001460   -0.583656 -117.377135
0.56342   -8.501185  -16.203829   -1.156961
-0.001460   -0.932685 -147.665443

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.187424  146.669190    1.256801
 0.006093    0.718466  101.701254
0.14086    3.187424  146.669190    1.256801
 0.006093    0.197231   83.174689
0.28171    3.187424  146.669190    1.256801
 0.006093    0.504562   69.336716
0.42257    3.187424  146.669190    1.256801
 0.006093    1.260186   72.372014
0.56342    3.187424  146.669190    1.256801
 0.006093    2.018326   87.466845

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -14.178506  -41.713505   -1.808004
-0.007272   -1.036509  -28.744830
0.14086  -14.178506  -41.713505   -1.808004
-0.007272   -0.278658  -58.962012
0.28171  -14.178506  -41.713505   -1.808004
-0.007272   -0.354243  -91.586697
0.42257  -14.178506  -41.713505   -1.808004
-0.007272   -0.878593 -129.026930
0.56342  -14.178506  -41.713505   -1.808004
-0.007272   -1.405405 -188.365028

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.050734  132.011199    1.426872
 0.005048    0.811807   91.452507
0.14086    6.050734  132.011199    1.426872
 0.005048    0.217655   88.315941
0.28171    6.050734  132.011199    1.426872
 0.005048    0.621036   90.522403
0.42257    6.050734  132.011199    1.426872
 0.005048    1.539226  106.936939
0.56342    6.050734  132.011199    1.426872
 0.005048    2.458739  132.539588

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -13.138151  -66.122360   -2.193342
-0.005426   -1.236527  -27.381020
0.14086  -13.138151  -66.122360   -2.193342
-0.005426   -0.316318  -55.252314
0.28171  -13.138151  -66.122360   -2.193342
-0.005426   -0.398299  -88.735415
0.42257  -13.138151  -66.122360   -2.193342
-0.005426   -0.994799 -126.911112
0.56342  -13.138151  -66.122360   -2.193342
-0.005426   -1.593045 -179.950231

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    9.228067  111.991954    1.548723
 0.004782    0.878055   81.431958
0.14086    9.228067  111.991954    1.548723
 0.004782    0.232536   88.697703
0.28171    9.228067  111.991954    1.548723
 0.004782    0.681987  101.349355
0.42257    9.228067  111.991954    1.548723
 0.004782    1.681369  126.028929
0.56342    9.228067  111.991954    1.548723
 0.004782    2.682103  158.473337
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3726

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -11.135663  -83.758932   -2.386629
-0.004617   -1.335164  -36.050455
0.14086  -11.135663  -83.758932   -2.386629
-0.004617   -0.334305  -57.114640
0.28171  -11.135663  -83.758932   -2.386629
-0.004617   -0.431512  -84.673175
0.42257  -11.135663  -83.758932   -2.386629
-0.004617   -1.079403 -115.061139
0.56342  -11.135663  -83.758932   -2.386629
-0.004617   -1.728870 -158.783748

COMB       DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    7.527371  119.328951    0.866194
 0.005919    0.488358   94.333871
0.14086    7.527371  119.328951    0.866194
 0.005919    0.132332   97.009556
0.28171    7.527371  119.328951    0.866194
 0.005919    0.353664  107.758502
0.42257    7.527371  119.328951    0.866194
 0.005919    0.876771  132.155680
0.56342    7.527371  119.328951    0.866194
 0.005919    1.397571  165.738137

COMB       DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -10.240081  -81.874998   -1.241719
-0.007044   -0.699453  -30.408301
0.14086  -10.240081  -81.874998   -1.241719
-0.007044   -0.180086  -38.292702
0.28171  -10.240081  -81.874998   -1.241719
-0.007044   -0.241486  -58.429241
0.42257  -10.240081  -81.874998   -1.241719
-0.007044   -0.604731  -86.339977
0.56342  -10.240081  -81.874998   -1.241719
-0.007044   -0.968027 -127.198575

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.803753  146.669190    1.548723
 0.006093    0.878055  101.701254
0.14086   10.803753  146.669190    1.548723
 0.006093    0.232536  114.373622
0.28171   10.803753  146.669190    1.548723
 0.006093    0.681987  138.766569
0.42257   10.803753  146.669190    1.548723
 0.006093    1.681369  173.164146
0.56342   10.803753  146.669190    1.548723
 0.006093    2.682103  214.253149

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -14.178506 -103.933830   -2.386629
-0.007272   -1.335164  -36.050455
0.14086  -14.178506 -103.933830   -2.386629
-0.007272   -0.334305  -58.962012
0.28171  -14.178506 -103.933830   -2.386629
-0.007272   -0.431512  -91.586697
0.42257  -14.178506 -103.933830   -2.386629
-0.007272   -1.079403 -129.026930
0.56342  -14.178506 -103.933830   -2.386629
-0.007272   -1.728870 -188.365028

COMB       CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.803753  146.669190    1.548723
 0.006093    0.878055  101.701254
0.14086   10.803753  146.669190    1.548723
 0.006093    0.232536  114.373622
0.28171   10.803753  146.669190    1.548723
 0.006093    0.681987  138.766569
0.42257   10.803753  146.669190    1.548723
 0.006093    1.681369  173.164146
0.56342   10.803753  146.669190    1.548723
 0.006093    2.682103  214.253149
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3727

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB       CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -14.178506 -103.933830   -2.386629
-0.007272   -1.335164  -36.050455
0.14086  -14.178506 -103.933830   -2.386629
-0.007272   -0.334305  -58.962012
0.28171  -14.178506 -103.933830   -2.386629
-0.007272   -0.431512  -91.586697
0.42257  -14.178506 -103.933830   -2.386629
-0.007272   -1.079403 -129.026930
0.56342  -14.178506 -103.933830   -2.386629
-0.007272   -1.728870 -188.365028

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   10.803753  146.669190    1.548723
 0.006093    0.878055  101.701254
0.14086   10.803753  146.669190    1.548723
 0.006093    0.232536  114.373622
0.28171   10.803753  146.669190    1.548723
 0.006093    0.681987  138.766569
0.42257   10.803753  146.669190    1.548723
 0.006093    1.681369  173.164146
0.56342   10.803753  146.669190    1.548723
 0.006093    2.682103  214.253149

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -14.178506 -103.933830   -2.386629
-0.007272   -1.335164  -36.050455
0.14086  -14.178506 -103.933830   -2.386629
-0.007272   -0.334305  -58.962012
0.28171  -14.178506 -103.933830   -2.386629
-0.007272   -0.431512  -91.586697
0.42257  -14.178506 -103.933830   -2.386629
-0.007272   -1.079403 -129.026930
0.56342  -14.178506 -103.933830   -2.386629
-0.007272   -1.728870 -188.365028

ELEM      356 ================== LENGTH
=    2.977856

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656    2.985447    3.903606    0.341914
0.001295    0.37974    2.420137
0.57742    2.985447    3.903606    0.341914
0.001295    0.236328    1.571217
0.71828    2.985447    3.903606    0.341914
0.001295    0.092891    2.778312
0.85914    2.985447    3.903606    0.341914
0.001295    0.057393    5.401446
1.00000    2.985447    3.903606    0.341914
0.001295    0.227650   10.259671

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656   -1.793566  -16.377300   -0.405729
-9.85E-06   -0.453160  -22.198898
0.57742   -1.793566  -16.377300   -0.405729
-9.85E-06   -0.282979  -23.392532
0.71828   -1.793566  -16.377300   -0.405729
-9.85E-06   -0.112798  -24.623495
0.85914   -1.793566  -16.377300   -0.405729
-9.85E-06   -0.050432  -25.983681
1.00000   -1.793566  -16.377300   -0.405729
-9.85E-06   -0.193939  -27.428605

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656    3.689115   16.258513    0.545297
 0.002324    0.605959   15.831167
0.57742    3.689115   16.258513    0.545297
 0.002324    0.377229   10.921964
0.71828    3.689115   16.258513    0.545297
 0.002324    0.148478    7.600724
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3728

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.85914    3.689115   16.258513    0.545297
 0.002324    0.113695    9.394963
1.00000    3.689115   16.258513    0.545297
 0.002324    0.445549   16.841929

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656   -5.918450  -31.371307   -0.791026
-0.000212   -0.882059  -44.344193
0.57742   -5.918450  -31.371307   -0.791026
-0.000212   -0.550435  -41.539655
0.71828   -5.918450  -31.371307   -0.791026
-0.000212   -0.218822  -42.449529
0.85914   -5.918450  -31.371307   -0.791026
-0.000212   -0.080828  -44.495295
1.00000   -5.918450  -31.371307   -0.791026
-0.000212   -0.309159  -47.958914

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656    3.726005   62.537743    0.613861
 0.001891    0.682733  129.762391
0.57742    3.726005   62.537743    0.613861
 0.001891    0.425241  105.003855
0.71828    3.726005   62.537743    0.613861
 0.001891    0.167673   81.299297
0.85914    3.726005   62.537743    0.613861
 0.001891    0.158304   61.647146
1.00000    3.726005   62.537743    0.613861
 0.001891    0.623915   47.776415

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656   -9.065158  -35.201766   -1.110032
-6.56E-06   -1.238581   -54.426663
0.57742   -9.065158  -35.201766   -1.110032
-6.56E-06   -0.772991   -48.976924
0.71828   -9.065158  -35.201766   -1.110032
-6.56E-06   -0.307497   -45.577862
0.85914   -9.065158  -35.201766   -1.110032
-6.56E-06   -0.089684   -42.807013
1.00000   -9.065158  -35.201766   -1.110032
-6.56E-06   -0.347237   -40.327193

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656    9.215793   62.259640    0.705586
 0.005035    0.784513  130.746591
0.57742    9.215793   62.259640    0.705586
 0.005035    0.488544  107.036431
0.71828    9.215793   62.259640    0.705586
 0.005035    0.192501   90.656511
0.85914    9.215793   62.259640    0.705586
 0.005035    0.191829   92.521434
1.00000    9.215793   62.259640    0.705586
 0.005035    0.716156  110.075511

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656   -8.578067 -105.934781   -1.251103
-0.004139   -1.389495  -104.448863
0.57742   -8.578067 -105.934781   -1.251103
-0.004139   -0.867671   -70.069420
0.71828   -8.578067 -105.934781   -1.251103
-0.004139   -0.345970   -49.407216
0.85914   -8.578067 -105.934781   -1.251103
-0.004139   -0.115431   -36.427930
1.00000   -8.578067 -105.934781   -1.251103
-0.004139   -0.403320   -37.368460

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656    0.375255   24.825356    0.183325
 0.000778    0.204150   41.966346
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3729

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.57742    0.375255   24.825356    0.183325
 0.000778    0.127263   31.943148
0.71828    0.375255   24.825356    0.183325
 0.000778    0.050323   22.406300
0.85914    0.375255   24.825356    0.183325
 0.000778    0.066312   15.150010
1.00000    0.375255   24.825356    0.183325
 0.000778    0.259147   11.133949

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656   -5.165963  -14.576181   -0.459922
-1.31E-05   -0.512552   -27.420203
0.57742   -5.165963  -14.576181   -0.459922
-1.31E-05   -0.319648   -21.555438
0.71828   -5.165963  -14.576181   -0.459922
-1.31E-05   -0.126789   -18.319592
0.85914   -5.165963  -14.576181   -0.459922
-1.31E-05   -0.026509   -16.040572
1.00000   -5.165963  -14.576181   -0.459922
-1.31E-05   -0.103421   -14.444268

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656    4.911551   68.147473    0.341510
 0.005296    0.380070   167.283548
0.57742    4.911551   68.147473    0.341510
 0.005296    0.236819   130.201639
0.71828    4.911551   68.147473    0.341510
 0.005296    0.093504   111.193099
0.85914    4.911551   68.147473    0.341510
 0.005296    0.147521   110.777676
1.00000    4.911551   68.147473    0.341510
 0.005296    0.521932   113.565961

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656   -7.837719  -77.659448   -0.894052
-0.004871   -0.986994   -61.461387
0.57742   -7.837719  -77.659448   -0.894052
-0.004871   -0.616014   -32.198402
0.71828   -7.837719  -77.659448   -0.894052
-0.004871   -0.245149   -21.709414
0.85914   -7.837719  -77.659448   -0.894052
-0.004871   -0.066218   -16.861110
1.00000   -7.837719  -77.659448   -0.894052
-0.004871   -0.198354   -12.840432

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656    6.092063   65.381562    0.564414
 0.005751    0.627643  142.176738
0.57742    6.092063   65.381562    0.564414
 0.005751    0.390892  117.491214
0.71828    6.092063   65.381562    0.564414
 0.005751    0.154065  100.668389
0.85914    6.092063   65.381562    0.564414
 0.005751    0.181736  100.603836
1.00000    6.092063   65.381562    0.564414
 0.005751    0.662734  108.375193

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43656   -9.328099   -83.096493   -1.147889
-0.004402   -1.271244   -71.238729
0.57742   -9.328099   -83.096493   -1.147889
-0.004402   -0.793399   -46.690519
0.71828   -9.328099   -83.096493   -1.147889
-0.004402   -0.315655   -38.686166
0.85914   -9.328099   -83.096493   -1.147889
-0.004402   -0.097470   -35.637568
1.00000   -9.328099   -83.096493   -1.147889
-0.004402   -0.324261   -33.423332
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                3730

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43656    9.307041   68.837357    0.729017
```

```
 0.004041    0.810848  137.394848
0.57742     9.307041   68.837357     0.729017
 0.004041    0.505052  111.035770
0.71828     9.307041   68.837357     0.729017
 0.004041    0.199173   90.314441
0.85914     9.307041   68.837357     0.729017
 0.004041    0.192504   82.535004
1.00000     9.307041   68.837357     0.729017
 0.004041    0.728087   93.974900

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -9.219993 -107.449406    -1.277940
-0.003855  -1.421373 -120.620995
0.57742  -9.219993 -107.449406    -1.277940
-0.003855  -0.687721  -83.651730
0.71828  -9.219993 -107.449406    -1.277940
-0.003855  -0.354226  -57.838096
0.85914  -9.219993 -107.449406    -1.277940
-0.003855  -0.116233  -35.360507
1.00000  -9.219993 -107.449406    -1.277940
-0.003855  -0.415546  -34.016149

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   6.209700   28.237687     0.449926
 7.46E-06    0.500604   38.238820
0.57742   6.209700   28.237687     0.449926
 7.46E-06    0.301877   26.521612
0.71828   6.209700   28.237687     0.449926
 7.46E-06    0.123128   15.005594
0.85914   6.209700   28.237687     0.449926
 7.46E-06    0.068263    4.348003
1.00000   6.209700   28.237687     0.449926
 7.46E-06    0.276827    2.984696

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -2.599425  -48.434134    -0.497705
-0.001485  -0.558283  -94.391758
0.57742  -2.599425  -48.434134    -0.497705
-0.001485  -0.349520  -74.084406
0.71828  -2.599425  -48.434134    -0.497705
-0.001485  -0.140879  -53.806834
0.85914  -2.599425  -48.434134    -0.497705
-0.001485  -0.065524  -33.662898
1.00000  -2.599425  -48.434134    -0.497705
-0.001485  -0.254313  -14.005538

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   12.808090   53.283314     0.625353
 0.005724    0.695245  108.359844
0.57742   12.808090   53.283314     0.625353
 0.005724    0.432932   87.628587
0.71828   12.808090   53.283314     0.625353
 0.005724    0.170574   76.991498
0.85914   12.808090   53.283314     0.625353
 0.005724    0.147089   88.313438
1.00000   12.808090   53.283314     0.625353
 0.005724    0.517983  107.894016

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -4.150992 -135.120785    -0.886290
-0.007704  -0.979869 -143.779963
0.57742  -4.150992 -135.120785    -0.886290
-0.007704  -0.613024  -90.919498
0.71828  -4.150992 -135.120785    -0.886290
-0.007704  -0.246329  -58.238258
0.85914  -4.150992 -135.120785    -0.886290
-0.007704  -0.111785  -31.600787
1.00000  -4.150992 -135.120785    -0.886290
-0.007704  -0.360612  -14.730363
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3731

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   10.736973   83.678088     0.689561
 0.004181    0.478169  171.317873
0.57742   10.736973   83.678088     0.689561
 0.004181    0.478123  137.576984
0.71828   10.736973   83.678088     0.689561
 0.004181    0.188801  110.837745
0.85914   10.736973   83.678088     0.689561
 0.004181    0.183773   99.789434
1.00000   10.736973   83.678088     0.689561
 0.004181    0.683052   97.820331

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -8.158133 -119.286451    -1.192016
-0.005614  -1.324387 -145.993506
0.57742  -8.158133 -119.286451    -1.192016
-0.005614  -0.827756  -98.614729
0.71828  -8.158133 -119.286451    -1.192016
-0.005614  -0.331343  -65.152187
0.85914  -8.158133 -119.286451    -1.192016
-0.005614  -0.114124  -35.980621
1.00000  -8.158133 -119.286451    -1.192016
-0.005614  -0.394142  -15.959344

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   9.842918   75.774139     0.772972
 0.004244    0.859906  146.091180
0.57742   9.842918   75.774139     0.772972
 0.004244    0.535672  116.605009
0.71828   9.842918   75.774139     0.772972
 0.004244    0.211669   93.224425
0.85914   9.842918   75.774139     0.772972
 0.004244    0.196896   83.731143
1.00000   9.842918   75.774139     0.772972
 0.004244    0.741116   84.927392

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -9.577866 -110.106614    -1.298847
-0.004653  -1.444291 -137.377759
0.57742  -9.577866 -110.106614    -1.298847
-0.004653  -0.902265  -97.030457
0.71828  -9.577866 -110.106614    -1.298847
-0.004653  -0.360424  -70.313110
0.85914  -9.577866 -110.106614    -1.298847
-0.004653  -0.124098  -47.547728
1.00000  -9.577866 -110.106614    -1.298847
-0.004653  -0.440774  -32.506518

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   5.042916    5.224819     0.595037
 0.001459    0.661269    3.352246
0.57742   5.042916    5.224819     0.595037
 0.001459    0.411545    2.883044
0.71828   5.042916    5.224819     0.595037
 0.001459    0.161726    3.196300
0.85914   5.042916    5.224819     0.595037
 0.001459    0.120836    7.052519
1.00000   5.042916    5.224819     0.595037
 0.001459    0.473402   14.634119

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -1.797689  -22.722179    -0.840608
 -6.78E-06   -0.937012   -43.253194
0.57742  -1.797689  -22.722179    -0.840608
 -6.78E-06   -0.584416   -37.767315
0.71828  -1.797689  -22.722179    -0.840608
 -6.78E-06   -0.231847   -32.708796
0.85914  -1.797689  -22.722179    -0.840608
 -6.78E-06   -0.086798   -30.955122
1.00000  -1.797689  -22.722179    -0.840608
 -6.78E-06   -0.336482   -31.951332
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3732

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   6.049888   17.250534     0.915874
 0.002440    1.019004   15.946235
0.57742   6.049888   17.250534     0.915874
 0.002440    0.634585   11.172603
0.71828   6.049888   17.250534     0.915874
 0.002440    0.250157    8.133634
0.85914   6.049888   17.250534     0.915874
 0.002440    0.228072   10.918595
1.00000   6.049888   17.250534     0.915874
 0.002440    0.885018   22.126210

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -5.826555  -41.372343    -1.566907
 -0.000135   -1.744477   -76.446047
0.57742  -5.826555  -41.372343    -1.566907
 -0.000135   -1.087375   -65.866362
0.71828  -5.826555  -41.372343    -1.566907
 -0.000135   -0.430278   -56.311241
0.85914  -5.826555  -41.372343    -1.566907
 -0.000135   0.132736   -51.329876
1.00000  -5.826555  -41.372343    -1.566907
 -0.000135   -0.516773   -52.622365

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   6.036042   56.479341     1.024813
 0.002058    1.140933  124.552579
0.57742   6.036042   56.479341     1.024813
 0.002058    0.710830  103.558030
0.71828   6.036042   56.479341     1.024813
 0.002058    0.280681   83.972425
0.85914   6.036042   56.479341     1.024813
 0.002058    0.285743   69.185468
1.00000   6.036042   56.479341     1.024813
 0.002058    1.117216   62.166990

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -8.510095  -46.502894    -1.982146
 -1.50E-05   -2.209160   -82.741739
0.57742  -8.510095  -46.502894    -1.982146
 -1.50E-05   -1.377608   -69.646560
0.71828  -8.510095  -46.502894    -1.982146
 -1.50E-05   -0.546209   -57.051760
0.85914  -8.510095  -46.502894    -1.982146
 -1.50E-05   -0.147292   -48.225294
1.00000  -8.510095  -46.502894    -1.982146
 -1.50E-05   -0.577488   -44.878606

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   10.200631   60.752954     1.228387
 0.004364    1.364342  134.765085
0.57742   10.200631   60.752954     1.228387
 0.004364    1.049503  112.869700
0.71828   10.200631   60.752954     1.228387
 0.004364    0.334669   97.749250
0.85914   10.200631   60.752954     1.228387
 0.004364    0.333417   98.778937
1.00000   10.200631   60.752954     1.228387
 0.004364    1.273140  116.707575

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -8.577153 -102.905399    -2.241039
 -0.003483   -2.492694 -120.314005
0.57742  -8.577153 -102.905399    -2.241039
 -0.003483   -1.555097   -83.520782
0.71828  -8.577153 -102.905399    -2.241039
 -0.003483   -0.617557   -57.174598
0.85914  -8.577153 -102.905399    -2.241039
 -0.003483   -0.190775   -40.959931
1.00000  -8.577153 -102.905399    -2.241039
 -0.003483   -0.703148   -41.454831
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3733

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   0.637765   21.267660     0.305750
 0.000738    0.341265   37.754055
0.57742   0.637765   21.267660     0.305750
 0.000738    0.212919   29.859576
0.71828   0.637765   21.267660     0.305750
 0.000738    0.084692   22.226393
0.85914   0.637765   21.267660     0.305750
 0.000738    0.115958   15.776960
1.00000   0.637765   21.267660     0.305750
 0.000738    0.447838   13.036636

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -4.826563  -18.463627    -0.792099
 -7.99E-06   -0.881393   -32.932901
0.57742  -4.826563  -18.463627    -0.792099
 -7.99E-06   -0.549187   -27.049895
0.71828  -4.826563  -18.463627    -0.792099
 -7.99E-06   -0.217039   -21.366651
0.85914  -4.826563  -18.463627    -0.792099
 -7.99E-06   -0.043086   -16.440495
1.00000  -4.826563  -18.463627    -0.792099
 -7.99E-06   -0.171125   -14.033408

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   4.743025   60.016215     0.576357
 0.004599    0.639669  151.301338
0.57742   4.743025   60.016215     0.576357
 0.004599    0.398754  128.784703
0.71828   4.743025   60.016215     0.576357
 0.004599    0.158100  114.289847
0.85914   4.743025   60.016215     0.576357
 0.004599    0.223009  114.049161
1.00000   4.743025   60.016215     0.576357
 0.004599    0.815779  117.547567

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -7.278912  -73.438656    -1.414593
 -0.004296   -1.566702   -64.452255
0.57742  -7.278912  -73.438656    -1.414593
 -0.004296   -0.977524   -36.852784
0.71828  -7.278912  -73.438656    -1.414593
 -0.004296   -0.387940   -24.193448
0.85914  -7.278912  -73.438656    -1.414593
 -0.004296   -0.101421   -17.014594
1.00000  -7.278912  -73.438656    -1.414593
 -0.004296   -0.338410   -12.343865

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   7.073676   58.664938     0.946305
 0.005220    1.051437  137.438421
0.57742   7.073676   58.664938     0.946305
 0.005220    0.655215  116.868753
0.71828   7.073676   58.664938     0.946305
 0.005220    0.258788  103.801750
0.85914   7.073676   58.664938     0.946305
 0.005220    0.302226  104.467050
1.00000   7.073676   58.664938     0.946305
 0.005220    1.128803  114.506835

COMB DL-G2-3 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -8.773773  -84.302366    -1.972040
 -0.003888   -2.188375   -92.249756
0.57742  -8.773773  -84.302366    -1.972040
 -0.003888   -1.564865   -63.147529
0.71828  -8.773773  -84.302366    -1.972040
 -0.003888   -0.541122   -47.676113
0.85914  -8.773773  -84.302366    -1.972040
 -0.003888   -0.153096   -38.103422
1.00000  -8.773773  -84.302366    -1.972040
 -0.003888   -0.545721   -35.051929
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3734

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   9.386653   68.827758     1.251091
 0.003509    1.389988  141.446361
0.57742   9.386653   68.827758     1.251091
 0.003509    0.865575  115.981221
0.71828   9.386653   68.827758     1.251091
 0.003509    0.341059   95.498412
0.85914   9.386653   68.827758     1.251091
 0.003509    0.341553   85.826300
1.00000   9.386653   68.827758     1.251091
 0.003509    1.312909   99.291238

COMB DL-G2-4 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -9.661219 -103.148132    -2.316738
 -0.003381   -2.578748 -128.909775
0.57742  -9.661219 -103.148132    -2.316738
 -0.003381   -1.609244   -90.728310
0.71828  -9.661219 -103.148132    -2.316738
 -0.003381   -0.639738   -60.957840
0.85914  -9.661219 -103.148132    -2.316738
 -0.003381   -0.191982   -36.618834
1.00000  -9.661219 -103.148132    -2.316738
 -0.003381   -0.714557   -36.474828

COMB DL-G3-1 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   5.238574   39.237023     0.769121
 4.48E-06    0.853668   48.329491
0.57742   5.238574   39.237023     0.769121
 4.48E-06    0.520017   32.115446
0.71828   5.238574   39.237023     0.769121
 4.48E-06    0.208303   16.558472
0.85914   5.238574   39.237023     0.769121
 4.48E-06    0.152739    4.522442
1.00000   5.238574   39.237023     0.769121
 4.48E-06    0.612453    3.589685

COMB DL-G3-1 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -4.496062  -42.187417    -1.095866
 -0.001631   -1.225648   -82.703370
0.57742  -4.496062  -42.187417    -1.095866
 -0.001631   -0.765808   -65.207029
0.71828  -4.496062  -42.187417    -1.095866
 -0.001631   -0.305917   -48.210912
0.85914  -4.496062  -42.187417    -1.095866
 -0.001631   -0.113737   -34.495224
1.00000  -4.496062  -42.187417    -1.095866
 -0.001631   -0.436686   -28.758983

COMB DL-G3-2 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   11.566491   63.364599     1.119566
 0.005731    1.236726  121.440303
0.57742   11.566491   63.364599     1.119566
 0.005731    0.770450   96.994426
0.71828   11.566491   63.364599     1.119566
 0.005731    0.302260   83.837844
0.85914   11.566491   63.364599     1.119566
 0.005731    0.270369   93.703011
1.00000   11.566491   63.364599     1.119566
 0.005731    0.994822  115.605890

COMB DL-G3-2 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -6.178800 -124.613452    -1.729892
 -0.007944   -1.918916 -130.092738
0.57742  -6.178800 -124.613452    -1.729892
 -0.007944   -1.198738   -79.690361
0.71828  -6.178800 -124.613452    -1.729892
 -0.007944   -0.478441   -50.439364
0.85914  -6.178800 -124.613452    -1.729892
 -0.007944   -0.192889   -31.961720
1.00000  -6.178800 -124.613452    -1.729892
 -0.007944   -0.655695   -25.783175
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3735

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   9.879675   85.065610     1.193317
 0.004359    1.323417  173.164379
0.57742   9.879675   85.065610     1.193317
 0.004359    0.823702  139.818734
0.71828   9.879675   85.065610     1.193317
 0.004359    0.324409  114.609463
0.85914   9.879675   85.065610     1.193317
 0.004359    0.324039  106.673478
1.00000   9.879675   85.065610     1.193317
 0.004359    1.226417  111.070383

COMB DL-G3-3 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -9.420198 -114.340285    -2.152471
 -0.006124   -2.393706 -134.305779
0.57742  -9.420198 -114.340285    -2.152471
 -0.006124   -1.494929   -88.437031
0.71828  -9.420198 -114.340285    -2.152471
 -0.006124   -0.595688   -57.822087
0.85914  -9.420198 -114.340285    -2.152471
 -0.006124   -0.194171   -35.511093
1.00000  -9.420198 -114.340285    -2.152471
 -0.006124   -0.689928   -25.025383

COMB DL-G3-4 ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   9.760685   77.141728     1.312198
 0.004456    1.456728  147.596301
0.57742   9.760685   77.141728     1.312198
 0.004456    0.907015  118.553295
0.71828   9.760685   77.141728     1.312198
 0.004456    0.357468   96.579312
0.85914   9.760685   77.141728     1.312198
 0.004456    0.358848   89.801024
1.00000   9.760685   77.141728     1.312198
 0.004456    1.365801   97.651831

COMB DL-G3-4 ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -10.624621 -110.167096    -2.401648
 -0.005089   -2.671091 -140.836501
0.57742  -10.624621 -110.167096    -2.401648
 -0.005089   -1.667119   -99.207627
0.71828  -10.624621 -110.167096    -2.401648
 -0.005089   -0.662789   -70.367775
0.85914  -10.624621 -110.167096    -2.401648
 -0.005089   -0.207150   -49.041214
1.00000  -10.624621 -110.167096    -2.401648
 -0.005089   -0.753634   -40.650887

COMB      DB ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   12.808090   83.678088     0.772972
 0.005751    0.859906  171.317873
0.57742   12.808090   83.678088     0.772972
 0.005751    0.535672  137.576984
0.71828   12.808090   83.678088     0.772972
 0.005751    0.211369  111.193099
0.85914   12.808090   83.678088     0.772972
 0.005751    0.196896  110.777876
1.00000   12.808090   83.678088     0.772972
 0.005751    0.741116  113.565961

COMB      DB ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -9.577866 -135.120785    -1.298847
 -0.007704   -1.444291 -145.993506
0.57742  -9.577866 -135.120785    -1.298847
 -0.007704   -0.902265   -98.614729
0.71828  -9.577866 -135.120785    -1.298847
 -0.007704   -0.360424   -70.313110
0.85914  -9.577866 -135.120785    -1.298847
 -0.007704   -0.124098   -47.547728
1.00000  -9.577866 -135.120785    -1.298847
 -0.007704   -0.440774   -47.958914
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD          >
                                3736

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   11.566491   85.065610     1.312198
 0.005731    1.456728  173.164379
0.57742   11.566491   85.065610     1.312198
 0.005731    0.907015  139.818734
0.71828   11.566491   85.065610     1.312198
 0.005731    0.357468  114.609463
0.85914   11.566491   85.065610     1.312198
 0.005731    0.358848  114.049161
1.00000   11.566491   85.065610     1.312198
 0.005731    1.365801  117.547567

COMB      DL ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -10.624621 -124.613452    -2.401648
 -0.007944   -2.671091 -140.836501
0.57742  -10.624621 -124.613452    -2.401648
 -0.007944   -1.667119   -99.207627
0.71828  -10.624621 -124.613452    -2.401648
 -0.007944   -0.662789   -70.367775
0.85914  -10.624621 -124.613452    -2.401648
 -0.007944   -0.207150   -51.329876
1.00000  -10.624621 -124.613452    -2.401648
 -0.007944   -0.753634   -52.622365

COMB      CAR ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   12.808090   85.065610     1.312198
 0.005751    1.456728  173.164379
0.57742   12.808090   85.065610     1.312198
 0.005751    0.907015  139.818734
0.71828   12.808090   85.065610     1.312198
 0.005751    0.357468  114.609463
0.85914   12.808090   85.065610     1.312198
 0.005751    0.358848  114.049161
1.00000   12.808090   85.065610     1.312198
 0.005751    1.365801  117.547567

COMB      CAR ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -10.624621 -135.120785    -2.401648
 -0.007944   -2.671091 -145.993506
0.57742  -10.624621 -135.120785    -2.401648
 -0.007944   -1.667119   -99.207627
0.71828  -10.624621 -135.120785    -2.401648
 -0.007944   -0.662789   -70.367775
0.85914  -10.624621 -135.120785    -2.401648
 -0.007944   -0.207150   -51.329876
1.00000  -10.624621 -135.120785    -2.401648
 -0.007944   -0.753634   -52.622365

COMB  DESIGN ------------------ MAX

REL DIST          P          V2          V3
      T         M2          M3
0.43656   12.808090   85.065610     1.312198
 0.005751    1.456728  173.164379
0.57742   12.808090   85.065610     1.312198
 0.005751    0.907015  139.818734
0.71828   12.808090   85.065610     1.312198
 0.005751    0.357468  114.609463
0.85914   12.808090   85.065610     1.312198
 0.005751    0.358848  114.049161
1.00000   12.808090   85.065610     1.312198
 0.005751    1.365801  117.547567

COMB  DESIGN ------------------ MIN

REL DIST          P          V2          V3
      T         M2          M3
0.43656  -10.624621 -135.120785    -2.401648
 -0.007944   -2.671091 -145.993506
0.57742  -10.624621 -135.120785    -2.401648
 -0.007944   -1.667119   -99.207627
```

```
0.71828   -10.624621  -135.120785   -2.401648
-0.007944   -0.662789   -70.367775
0.85914   -10.624621  -135.120785   -2.401648
-0.007944   -0.207150   -51.329876
1.00000   -10.624621  -135.120785   -2.401648
-0.007944   -0.753634   -52.622365
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         3737

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      357 ================== LENGTH =     2.976946

COMB DB-G1-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     2.954752       3.930647       0.332137
0.000904    0.185491      10.268511
0.14083     2.954752       3.930647       0.332137
0.000904    0.046162      16.751836
0.28166     2.954752       3.930647       0.332137
0.000904    0.109982      23.392884
0.42248     2.954752       3.930647       0.332137
0.000904    0.272090      30.131827
0.56331     2.954752       3.930647       0.332137
0.000904    0.434206      36.897404

COMB DB-G1-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1.782500     -16.192821     -0.386710
-6.93E-06   -0.214327     -27.433841
0.14083    -1.782500     -16.192821     -0.386710
-6.93E-06   -0.052214     -28.919725
0.28166    -1.782500     -16.192821     -0.386710
-6.93E-06   -0.092984     -30.437330
0.42248    -1.782500     -16.192821     -0.386710
-6.93E-06   -0.232245     -31.966769
0.56331    -1.782500     -16.192821     -0.386710
-6.93E-06   -0.371489     -33.549263

COMB DB-G1-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     3.547691      17.684602       0.532168
 0.001774   0.297693      16.868163
0.14083     3.547691      17.684602       0.532168
 0.001774   0.075014      26.500661
0.28166     3.547691      17.684602       0.532168
 0.001774   0.213712      36.552708
0.42248     3.547691      17.684602       0.532168
 0.001774   0.528141      48.034791
0.56331     3.547691      17.684602       0.532168
 0.001774   0.842660      60.045727

COMB DB-G1-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -5.974175     -29.252551     -0.750690
-0.000187   -0.416519     -47.969075
0.14083    -5.974175     -29.252551     -0.750690
-0.000187   -0.101877     -52.235568
0.28166    -5.974175     -29.252551     -0.750690
-0.000187   -0.148641     -56.925281
0.42248    -5.974175     -29.252551     -0.750690
-0.000187   -0.371763     -62.188077
0.56331    -5.974175     -29.252551     -0.750690
-0.000187   -0.594864     -68.703523

COMB DB-G1-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     3.682526      61.749530       0.609405
 0.001941   0.341947      47.777025
0.14083     3.682526      61.749530       0.609405
 0.001941   0.086335      47.099546
0.28166     3.682526      61.749530       0.609405
 0.001941   0.302215      54.683476
0.42248     3.682526      61.749530       0.609405
 0.001941   0.748095      64.167074
0.56331     3.682526      61.749530       0.609405
 0.001941   1.194104      74.255178

COMB DB-G1-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -8.984309     -34.978139     -1.063875
-6.24E-06   -0.590029     -40.328254
0.14083    -8.984309     -34.978139     -1.063875
-6.24E-06   -0.144086     -40.927250
0.28166    -8.984309     -34.978139     -1.063875
-6.24E-06   -0.168949     -57.133467
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         3738

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.42248    -8.984309     -34.978139     -1.063875
-6.24E-06   -0.424517     -81.355069
0.56331    -8.984309     -34.978139     -1.063875
-6.24E-06   -0.679997     -106.493615

COMB DB-G1-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     7.126430      96.614716       0.697268
 0.005103   0.394027      110.278101
0.14083     7.126430      96.614716       0.697268
 0.005103   0.110242      108.635785
0.28166     7.126430      96.614716       0.697268
 0.005103   0.343942      113.632689
0.42248     7.126430      96.614716       0.697268
 0.005103   0.854047      130.175920
0.56331     7.126430      96.614716       0.697268
 0.005103   1.364329      154.285523

COMB DB-G1-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.202411     -68.824392     -1.225829
-0.003879   -0.696413     -37.360233
0.14083    -10.202411     -68.824392     -1.225829
-0.003879   -0.183090     -41.126032
0.28166    -10.202411     -68.824392     -1.225829
-0.003879   -0.193573     -58.185894
0.42248    -10.202411     -68.824392     -1.225829
-0.003879   -0.485972     -81.501047
0.56331    -10.202411     -68.824392     -1.225829
-0.003879   -0.778286     -115.731329

COMB DB-G2-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     0.373684      24.480591       0.183060
 0.000746   0.103466      11.134996
0.14083     0.373684      24.480591       0.183060
 0.000746   0.026707      12.276685
0.28166     0.373684      24.480591       0.183060
 0.000746   0.124630      15.120807
0.42248     0.373684      24.480591       0.183060
 0.000746   0.308167      18.304494
0.56331     0.373684      24.480591       0.183060
 0.000746   0.491826      23.155988

COMB DB-G2-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -5.135159     -14.494582     -0.438097
-9.73E-06   -0.242848     -14.445503
0.14083    -5.135159     -14.494582     -0.438097
-9.73E-06   -0.059240     -18.473379
0.28166    -5.135159     -14.494582     -0.438097
-9.73E-06   -0.050408     -26.430725
0.42248    -5.135159     -14.494582     -0.438097
-9.73E-06   -0.126804     -35.554153
0.56331    -5.135159     -14.494582     -0.438097
-9.73E-06   -0.203547     -45.412032

COMB DB-G2-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     2.040430      115.218244      0.343928
 0.005855   0.197882      113.845435
0.14083     2.040430      115.218244      0.343928
 0.005855   0.065438      83.902303
0.28166     2.040430      115.218244      0.343928
 0.005855   0.243356      62.684160
0.42248     2.040430      115.218244      0.343928
 0.005855   0.603500      57.195215
0.56331     2.040430      115.218244      0.343928
 0.005855   0.963797      62.039624

COMB DB-G2-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.081434     -26.471917     -0.871236
-0.004830   -0.504142     -12.831312
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         3739

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.14083    -10.081434     -26.471917     -0.871236
-0.004830   -0.139581     -12.176239
0.28166    -10.081434     -26.471917     -0.871236
-0.004830   -0.094583     -29.135947
0.42248    -10.081434     -26.471917     -0.871236
-0.004830   -0.238838     -54.166128
0.56331    -10.081434     -26.471917     -0.871236
-0.004830   -0.383015     -94.059919

COMB DB-G2-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     3.474543      107.893462      0.559927
 0.006013   0.318033      108.636361
0.14083     3.474543      107.893462      0.559927
 0.006013   0.093816      87.093483
0.28166     3.474543      107.893462      0.559927
 0.006013   0.311634      73.336996
0.42248     3.474543      107.893462      0.559927
 0.006013   0.771879      73.754081
0.56331     3.474543      107.893462      0.559927
 0.006013   1.232268      83.489657

COMB DB-G2-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -11.341608     -36.760489     -1.108846
-0.004365   -0.633508     -33.419427
0.14083    -11.341608     -36.760489     -1.108846
-0.004365   -0.169309     -34.095809
0.28166    -11.341608     -36.760489     -1.108846
-0.004365   -0.155135     -51.265737
0.42248    -11.341608     -36.760489     -1.108846
-0.004365   -0.389953     -75.335927
0.56331    -11.341608     -36.760489     -1.108846
-0.004365   -0.624686     -112.838274

COMB DB-G2-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     7.631752      96.617636       0.723060
 0.004251   0.408231      94.131059
0.14083     7.631752      96.617636       0.723060
 0.004251   0.111948      99.375924
0.28166     7.631752      96.617636       0.723060
 0.004251   0.354157      111.301817
0.42248     7.631752      96.617636       0.723060
 0.004251   0.880792      132.992925
0.56331     7.631752      96.617636       0.723060
 0.004251   1.407631      160.937101

COMB DB-G2-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.527560     -77.550617     -1.263675
-0.003580   -0.715642     -34.003135
0.14083    -10.527560     -77.550617     -1.263675
-0.003580   -0.186466     -40.152401
0.28166    -10.527560     -77.550617     -1.263675
-0.003580   -0.200413     -60.088615
0.42248    -10.527560     -77.550617     -1.263675
-0.003580   -0.503633     -86.245126
0.56331    -10.527560     -77.550617     -1.263675
-0.003580   -0.806758     -121.432526

COMB DB-G3-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     6.261139      28.334804       0.445729
 1.98E-05   0.250076       2.981078
0.14083     6.261139      28.334804       0.445729
 1.98E-05   0.063153       8.714589
0.28166     6.261139      28.334804       0.445729
 1.98E-05   0.146252      28.731501
0.42248     6.261139      28.334804       0.445729
 1.98E-05   0.338408      49.014856
0.56331     6.261139      28.334804       0.445729
 1.98E-05   0.590605      69.338020
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         3740

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -2.619113     -48.893013     -0.530020
-0.001437   -0.298405     -14.021993
0.14083    -2.619113     -48.893013     -0.530020
-0.001437   -0.076354     -23.039362
0.28166    -2.619113     -48.893013     -0.530020
-0.001437   -0.123641     -34.012575
0.42248    -2.619113     -48.893013     -0.530020
-0.001437   -0.310527     -45.546225
0.56331    -2.619113     -48.893013     -0.530020
-0.001437   -0.497392     -57.323307

COMB DB-G3-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     9.392752      111.500573      0.615117
 0.005982   0.349837      108.238332
0.14083     9.392752      111.500573      0.615117
 0.005982   0.106299      96.191614
0.28166     9.392752      111.500573      0.615117
 0.005982   0.253031      94.328127
0.42248     9.392752      111.500573      0.615117
 0.005982   0.634676      110.471544
0.56331     9.392752      111.500573      0.615117
 0.005982   1.016418      138.735687

COMB DB-G3-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -6.955778     -73.515902     -0.924964
-0.007419   -0.543275     -14.706102
0.14083    -6.955778     -73.515902     -0.924964
-0.007419   -0.156449     -27.239655
0.28166    -6.955778     -73.515902     -0.924964
-0.007419   -0.170931     -40.167328
0.42248    -6.955778     -73.515902     -0.924964
-0.007419   -0.428854     -58.932618
0.56331    -6.955778     -73.515902     -0.924964
-0.007419   -0.686732     -95.930806

COMB DB-G3-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     8.398824      123.159211      0.689099
 0.004739   0.390864      98.047005
0.14083     8.398824      123.159211      0.689099
 0.004739   0.111698      91.062359
0.28166     8.398824      123.159211      0.689099
 0.004739   0.335953      95.928184
0.42248     8.398824      123.159211      0.689099
 0.004739   0.839286      113.980181
0.56331     8.398824      123.159211      0.689099
 0.004739   1.342790      140.664227

COMB DB-G3-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.034419     -77.157836     -1.210883
-0.005389   -0.693721     -15.934011
0.14083    -10.034419     -77.157836     -1.210883
-0.005389   -0.186823     -24.736523
0.28166    -10.034419     -77.157836     -1.210883
-0.005389   -0.190329     -50.623759
0.42248    -10.034419     -77.157836     -1.210883
-0.005389   -0.479302     -83.131693
0.56331    -10.034419     -77.157836     -1.210883
-0.005389   -0.768189     -127.802815

COMB DB-G3-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     7.898382      108.261156      0.767898
 0.004521   0.433985      85.121545
0.14083     7.898382      108.261156      0.767898
 0.004521   0.120051      83.624414
0.28166     7.898382      108.261156      0.767898
 0.004521   0.362190      92.253999
0.42248     7.898382      108.261156      0.767898
 0.004521   0.902288      111.895073
0.56331     7.898382      108.261156      0.767898
 0.004521   1.442566      138.731197
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         3741

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -11.115914     -75.216881     -1.296890
-0.004466   -0.737182     -32.489573
0.14083    -11.115914     -75.216881     -1.296890
-0.004466   -0.194137     -41.565353
0.28166    -11.115914     -75.216881     -1.296890
-0.004466   -0.212679     -64.272490
0.42248    -11.115914     -75.216881     -1.296890
-0.004466   -0.534683     -93.205663
0.56331    -11.115914     -75.216881     -1.296890
-0.004466   -0.856605     -132.512657

COMB DL-G1-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     5.004777       5.217521       0.585205
0.000994    0.326923      14.647534
0.14083     5.004777       5.217521       0.585205
0.000994    0.081526      22.969409
0.28166     5.004777       5.217521       0.585205
0.000994    0.228899      31.437771
0.42248     5.004777       5.217521       0.585205
0.000994    0.568724      40.305193
0.56331     5.004777       5.217521       0.585205
0.000994    0.908521      49.372908

COMB DL-G1-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1.785639     -22.500904     -0.810609
-4.06E-06   -0.450843     -31.960558
0.14083    -1.785639     -22.500904     -0.810609
-4.06E-06   -0.110968     -33.022511
0.28166    -1.785639     -22.500904     -0.810609
-4.06E-06   -0.162817     -34.197975
0.42248    -1.785639     -22.500904     -0.810609
-4.06E-06   -0.408289     -35.747409
0.56331    -1.785639     -22.500904     -0.810609
-4.06E-06   -0.653806     -37.512896

COMB DL-G1-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     5.933236      18.025865       0.917644
 0.001858   0.514832      22.150660
0.14083     5.933236      18.025865       0.917644
 0.001858   0.130245      35.594054
0.28166     5.933236      18.025865       0.917644
 0.001858   0.423671      50.035919
0.42248     5.933236      18.025865       0.917644
 0.001858   1.049670      65.622599
0.56331     5.933236      18.025865       0.917644
 0.001858   1.675703      81.812740

COMB DL-G1-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -5.858695     -39.980859     -1.493574
-0.000112   -0.829400     -52.637805
0.14083    -5.858695     -39.980859     -1.493574
-0.000112   -0.203294     -55.617250
0.28166    -5.858695     -39.980859     -1.493574
-0.000112   -0.253280     -59.675287
0.42248    -5.858695     -39.980859     -1.493574
-0.000112   -0.638117     -65.358424
0.56331    -5.858695     -39.980859     -1.493574
-0.000112   -1.023087     -72.110694

COMB DL-G1-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     5.979659      55.754348       1.034859
 0.001986   0.581585      62.186242
0.14083     5.979659      55.754348       1.034859
 0.001986   0.147586      64.282266
0.28166     5.979659      55.754348       1.034859
 0.001986   0.539720      74.523846
0.42248     5.979659      55.754348       1.034859
 0.001986   1.338470      89.661592
0.56331     5.979659      55.754348       1.034859
 0.001986   2.137415      106.036714
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         3742

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -8.446230     -46.198653     -1.905456
-9.16E-06   -1.058331     -44.891234
0.14083    -8.446230     -46.198653     -1.905456
-9.16E-06   -0.259196     -45.495162
0.28166    -8.446230     -46.198653     -1.905456
-9.16E-06   -0.284685     -57.874690
0.42248    -8.446230     -46.198653     -1.905456
-9.16E-06   -0.718886     -78.645058
0.56331    -8.446230     -46.198653     -1.905456
-9.16E-06   -1.152909     -100.648021

COMB DL-G1-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     8.554318      86.547020       1.220440
 0.004362   0.693461      116.740987
0.14083     8.554318      86.547020       1.220440
 0.004362   0.184842      119.681849
0.28166     8.554318      86.547020       1.220440
 0.004362   0.615073      129.597703
0.42248     8.554318      86.547020       1.220440
 0.004362   1.530771      150.824408
0.56331     8.554318      86.547020       1.220440
 0.004362   2.446495      178.723986

COMB DL-G1-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -9.968585     -75.425980     -2.190596
-0.003086   -1.232150     -41.454643
0.14083    -9.968585     -75.425980     -2.190596
-0.003086   -0.313893     -45.852991
0.28166    -9.968585     -75.425980     -2.190596
-0.003086   -0.337386     -60.398915
0.42248    -9.968585     -75.425980     -2.190596
-0.003086   -0.848764     -81.972631
0.56331    -9.968585     -75.425980     -2.190596
-0.003086   -1.360056     -115.833935

COMB DL-G2-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     0.626801      21.010722       0.320231
 0.000769   0.181116      13.044090
0.14083     0.626801      21.010722       0.320231
 0.000769   0.047044      16.165681
0.28166     0.626801      21.010722       0.320231
 0.000769   0.213603      21.574767
0.42248     0.626801      21.010722       0.320231
 0.000769   0.527434      27.722912
0.56331     0.626801      21.010722       0.320231
 0.000769   0.841443      34.778288

COMB DL-G2-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -4.811361     -18.363253     -0.749073
-5.83E-06   -0.414914     -14.037537
0.14083    -4.811361     -18.363253     -0.749073
-5.83E-06   -0.101134     -17.344406
0.28166    -4.811361     -18.363253     -0.749073
-5.83E-06   -0.086719     -23.852295
0.42248    -4.811361     -18.363253     -0.749073
-5.83E-06   -0.220999     -31.545202
0.56331    -4.811361     -18.363253     -0.749073
-5.83E-06   -0.355175     -39.699576

COMB DL-G2-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     2.231188      99.420393       0.588158
 0.005122   0.345526      117.591940
0.14083     2.231188      99.420393       0.588158
 0.005122   0.104088      92.337524
0.28166     2.231188      99.420393       0.588158
 0.005122   0.385336      76.269214
0.42248     2.231188      99.420393       0.588158
 0.005122   0.956275      75.306190
0.56331     2.231188      99.420393       0.588158
 0.005122   1.526928      83.840927
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                        Page
<                MOVING                 LOAD                >
                                         3743

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -9.408472     -31.194348     -1.371653
-0.004113   -0.781768     -12.341803
0.14083    -9.408472     -31.194348     -1.371653
-0.004113   -0.207280     -11.777536
0.28166    -9.408472     -31.194348     -1.371653
-0.004113   -0.160767     -25.650405
0.42248    -9.408472     -31.194348     -1.371653
-0.004113   -0.406351     -46.563796
0.56331    -9.408472     -31.194348     -1.371653
-0.004113   -0.652239     -85.549456

COMB DL-G2-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     4.773933      94.278010       0.957454
 0.005482   0.550897      114.553390
0.14083     4.773933      94.278010       0.957454
 0.005482   0.154028      98.504787
0.28166     4.773933      94.278010       0.957454
 0.005482   0.535892      91.234321
0.42248     4.773933      94.278010       0.957454
 0.005482   1.329340      97.589973
0.56331     4.773933      94.278010       0.957454
 0.005482   2.122465      112.604536

COMB DL-G2-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.685992     -45.949922     -1.901440
-0.003722   -1.073651     -35.058569
0.14083    -10.685992     -45.949922     -1.901440
-0.003722   -0.277205     -35.625093
0.28166    -10.685992     -45.949922     -1.901440
-0.003722   -0.262545     -50.061241
0.42248    -10.685992     -45.949922     -1.901440
-0.003722   -0.663640     -70.541594
0.56331    -10.685992     -45.949922     -1.901440
-0.003722   -1.064414     -107.492560

COMB DL-G2-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     8.040650      90.207105       1.242532
 0.003719   0.704631      99.311446
0.14083     8.040650      90.207105       1.242532
 0.003719   0.186102      107.023812
0.28166     8.040650      90.207105       1.242532
 0.003719   0.639975      122.523012
0.42248     8.040650      90.207105       1.242532
 0.003719   1.592389      147.425910
0.56331     8.040650      90.207105       1.242532
 0.003719   2.545486      177.871751

COMB DL-G2-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -10.817597     -80.533211     -2.279041
-0.003036   -1.280529     -36.467325
0.14083    -10.817597     -80.533211     -2.279041
-0.003036   -0.324798     -44.554633
```

```
0.28166   -10.817597   -80.533211   -2.279041
-0.003036   -0.343215   -64.596091
0.42248   -10.817597   -80.533211   -2.279041
-0.003036   -0.864005   -90.213945
0.56331   -10.817597   -80.533211   -2.279041
-0.003036   -1.384616  -126.104834

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    5.288051   39.353396    0.739183
 1.49E-05   0.413112    3.585280
0.14083    5.288051   39.353396    0.739183
 1.49E-05   0.103243    9.288369
0.28166    5.288051   39.353396    0.739183
 1.49E-05   0.312840   25.927553
0.42248    5.288051   39.353396    0.739183
 1.49E-05   0.788258   43.340825
0.56331    5.288051   39.353396    0.739183
 1.49E-05   1.263548   60.961575
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3744

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -4.527469   -42.567269   -1.133417
-0.001610   -0.636434   -28.759115
0.14083   -4.527469   -42.567269   -1.133417
-0.001610   -0.161540   -37.678940
0.28166   -4.527469   -42.567269   -1.133417
-0.001610   -0.206376   -52.749328
0.42248   -4.527469   -42.567269   -1.133417
-0.001610   -0.516356   -68.814043
0.56331   -4.527469   -42.567269   -1.133417
-0.001610   -0.826271   -85.086592

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    8.090382   120.225675    1.074026
 0.005950   0.619504   115.655652
0.14083    8.090382   120.225675    1.074026
 0.005950   0.176118   102.108836
0.28166    8.090382   120.225675    1.074026
 0.005950   0.487179    96.259331
0.42248    8.090382   120.225675    1.074026
 0.005950   1.224531   107.743311
0.56331    8.090382   120.225675    1.074026
 0.005950   1.961705   131.901735

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -9.292803   -65.341826   -1.772298
-0.007450   -1.020817   -25.761418
0.14083   -9.292803   -65.341826   -1.772298
-0.007450   -0.279071   -40.320512
0.28166   -9.292803   -65.341826   -1.772298
-0.007450   -0.299877   -58.316501
0.42248   -9.292803   -65.341826   -1.772298
-0.007450   -0.749924   -81.017165
0.56331   -9.292803   -65.341826   -1.772298
-0.007450   -1.198080  -128.544084

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    7.373316   125.740424    1.169985
 0.004863   0.670120   111.108425
0.14083    7.373316   125.740424    1.169985
 0.004863   0.184641   100.422656
0.28166    7.373316   125.740424    1.169985
 0.004863   0.601660   102.561457
0.42248    7.373316   125.740424    1.169985
 0.004863   1.505862   118.897576
0.56331    7.373316   125.740424    1.169985
 0.004863   2.409632   144.727222

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -11.638232   -71.675953   -2.166333
-0.005639   -1.231041   -25.007721
0.14083  -11.638232   -71.675953   -2.166333
-0.005639   -0.323423   -36.456362
0.28166  -11.638232   -71.675953   -2.166333
-0.005639   -0.324389   -54.090343
0.42248  -11.638232   -71.675953   -2.166333
-0.005639   -0.813860   -96.061856
0.56331  -11.638232   -71.675953   -2.166333
-0.005639   -1.303662  -146.207770

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    7.663762   110.757522    1.297922
 0.004694   0.739874    97.693142
0.14083    7.663762   110.757522    1.297922
 0.004694   0.264306    94.544306
0.28166    7.663762   110.757522    1.297922
 0.004694   0.664783   102.314465
0.42248    7.663762   110.757522    1.297922
 0.004694   1.658696   122.072594
0.56331    7.663762   110.757522    1.297922
 0.004694   2.652181   149.791374
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3745

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -12.451767   -74.686587   -2.378687
-0.004684   -1.343478   -40.642438
0.14083   -12.451767   -74.686587   -2.378687
-0.004684   -0.346646   -51.507142
0.28166   -12.451767   -74.686587   -2.378687
-0.004684   -0.358853   -76.041333
0.42248   -12.451767   -74.686587   -2.378687
-0.004684   -0.902244  -104.891433
0.56331   -12.451767   -74.686587   -2.378687
-0.004684   -1.445890  -149.071141

COMB       DB ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    9.392752   123.159211    0.767898
 0.006013   0.433985   113.845435
0.14083    9.392752   123.159211    0.767898
 0.006013   0.120051   108.635785
0.28166    9.392752   123.159211    0.767898
 0.006013   0.746190   113.632689
0.42248    9.392752   123.159211    0.767898
 0.006013   0.902288   132.992925
0.56331    9.392752   123.159211    0.767898
 0.006013   1.442566   160.937101

COMB       DB ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -11.341608   -77.550617   -1.296890
-0.007419   -0.737182   -47.969075
0.14083  -11.341608   -77.550617   -1.296890
-0.007419   -0.194137   -52.235568

0.28166  -11.341608   -77.550617   -1.296890
-0.007419   -0.212679   -64.272490
0.42248  -11.341608   -77.550617   -1.296890
-0.007419   -0.534683   -93.205663
0.56331  -11.341608   -77.550617   -1.296890
-0.007419   -0.856605  -132.512657

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    8.554318   125.740424    1.297922
 0.005950   0.739874   117.591940
0.14083    8.554318   125.740424    1.297922
 0.005950   0.199951   119.681849
0.28166    8.554318   125.740424    1.297922
 0.005950   0.664783   129.597703
0.42248    8.554318   125.740424    1.297922
 0.005950   1.658696   150.824408
0.56331    8.554318   125.740424    1.297922
 0.005950   2.652181   178.723986

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -12.451767   -80.533211   -2.378687
-0.007450   -1.343478   -52.637805
0.14083  -12.451767   -80.533211   -2.378687
-0.007450   -0.346646   -55.617250
0.28166  -12.451767   -80.533211   -2.378687
-0.007450   -0.358853   -76.041333
0.42248  -12.451767   -80.533211   -2.378687
-0.007450   -0.902244  -104.891433
0.56331  -12.451767   -80.533211   -2.378687
-0.007450   -1.445890  -149.071141

COMB       CAR ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    9.392752   125.740424    1.297922
 0.006013   0.739874   117.591940
0.14083    9.392752   125.740424    1.297922
 0.006013   0.199951   119.681849
0.28166    9.392752   125.740424    1.297922
 0.006013   0.664783   129.597703
0.42248    9.392752   125.740424    1.297922
 0.006013   1.658696   150.824408
0.56331    9.392752   125.740424    1.297922
 0.006013   2.652181   178.723986
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3746

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       CAR ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -12.451767   -80.533211   -2.378687
-0.007450   -1.343478   -52.637805
0.14083  -12.451767   -80.533211   -2.378687
-0.007450   -0.346646   -55.617250
0.28166  -12.451767   -80.533211   -2.378687
-0.007450   -0.358853   -76.041333
0.42248  -12.451767   -80.533211   -2.378687
-0.007450   -0.902244  -104.891433
0.56331  -12.451767   -80.533211   -2.378687
-0.007450   -1.445890  -149.071141

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    9.392752   125.740424    1.297922
 0.006013   0.739874   117.591940
0.14083    9.392752   125.740424    1.297922
 0.006013   0.199951   119.681849
0.28166    9.392752   125.740424    1.297922
 0.006013   0.664783   129.597703
0.42248    9.392752   125.740424    1.297922
 0.006013   1.658696   150.824408
0.56331    9.392752   125.740424    1.297922
 0.006013   2.652181   178.723986

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -12.451767   -80.533211   -2.378687
-0.007450   -1.343478   -52.637805
0.14083  -12.451767   -80.533211   -2.378687
-0.007450   -0.346646   -55.617250
0.28166  -12.451767   -80.533211   -2.378687
-0.007450   -0.358853   -76.041333
0.42248  -12.451767   -80.533211   -2.378687
-0.007450   -0.902244  -104.891433
0.56331  -12.451767   -80.533211   -2.378687
-0.007450   -1.445890  -149.071141

ELEM    358 ================== LENGTH
=     2.977254

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    1.647306   10.418653    0.352880
 0.001196   0.392143    1.766429
0.57748    1.647306   10.418653    0.352880
 0.001196   0.244175    1.279510
0.71832    1.647306   10.418653    0.352880
 0.001196   0.096201    2.587800
0.85916    1.647306   10.418653    0.352880
 0.001196   0.054525    5.448168
1.00000    1.647306   10.418653    0.352880
 0.001196   0.210481    9.438513

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -3.250625   -10.911056   -0.371871
-1.09E-05   -0.413240   -25.710934
0.57748   -3.250625   -10.911056   -0.371871
-1.09E-05   -0.257316   -29.502732
0.71832   -3.250625   -10.911056   -0.371871
-1.09E-05   -0.101387   -33.363200
0.85916   -3.250625   -10.911056   -0.371871
-1.09E-05   -0.051702   -37.261837
1.00000   -3.250625   -10.911056   -0.371871
-1.09E-05   -0.199726   -41.284802

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    1.917539   30.955686    0.561706
 0.002160   0.624520   24.650574
0.57748    1.917539   30.955686    0.561706
 0.002160   0.388992   17.547942
0.71832    1.917539   30.955686    0.561706
 0.002160   0.153441   12.445179
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3747

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.85916    1.917539   30.955686    0.561706
 0.002160   0.100603   11.543982
1.00000    1.917539   30.955686    0.561706
 0.002160   0.389494   16.451240

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -7.704100   -19.165124   -0.688801
-0.000223   -0.765801   -37.102450
0.57748   -7.704100   -19.165124   -0.688801
-0.000223   -0.477169   -39.854233
0.71832   -7.704100   -19.165124   -0.688801
-0.000223   -0.188796   -45.421889
0.85916   -7.704100   -19.165124   -0.688801
-0.000223   -0.082509   -53.151148
1.00000   -7.704100   -19.165124   -0.688801
-0.000223   -0.317595   -61.595295

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    1.676422   82.317934    0.566563
 0.001715   0.630022   160.317304
0.57748    1.676422   82.317934    0.566563
 0.001715   0.392837   130.916149
0.71832    1.676422   82.317934    0.566563
 0.001715   0.155223   103.189983
0.85916    1.676422   82.317934    0.566563
 0.001715   0.139552    78.193967
1.00000    1.676422   82.317934    0.566563
 0.001715   0.546508    57.616669

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -11.160118   -17.406564   -0.970101
-6.58E-06   -1.080603   -37.540685
0.57748   -11.160118   -17.406564   -0.970101
-6.58E-06   -0.673858   -39.861884
0.71832   -11.160118   -17.406564   -0.970101
-6.58E-06   -0.267321   -43.680498
0.85916   -11.160118   -17.406564   -0.970101
-6.58E-06   -0.082169   -48.900236
1.00000   -11.160118   -17.406564   -0.970101
-6.58E-06   -0.319855   -54.376610

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    7.876973   75.928717    0.655521
 0.004858   0.729134   153.411184
0.57748    7.876973   75.928717    0.655521
 0.004858   0.454269   127.812252
0.71832    7.876973   75.928717    0.655521
 0.004858   0.179341   112.021519
0.85916    7.876973   75.928717    0.655521
 0.004858   0.171916   111.149282
1.00000    7.876973   75.928717    0.655521
 0.004858   0.634310   125.009064

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -9.907208   -95.416851   -1.104511
-0.004136   -1.218265   -90.819554
0.57748   -9.907208   -95.416851   -1.104511
-0.004136   -0.758604   -62.972996
0.71832   -9.907208   -95.416851   -1.104511
-0.004136   -0.304149   -48.241391
0.85916   -9.907208   -95.416851   -1.104511
-0.004136   -0.106078   -42.188919
1.00000   -9.907208   -95.416851   -1.104511
-0.004136   -0.370312   -48.770983

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    0.247178   34.578373    0.188690
 0.000712   0.211099   60.438776
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3748

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.57748    0.247178   34.578373    0.188690
 0.000712   0.131090   46.529453
0.71832    0.247178   34.578373    0.188690
 0.000712   0.051922   33.082981
0.85916    0.247178   34.578373    0.188690
 0.000712   0.056622   20.671287
1.00000    0.247178   34.578373    0.188690
 0.000712   0.223447   13.666825

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -5.526790   -6.099858   -0.397740
-9.55E-05   -0.443665   -12.429882
0.57748   -5.526790   -6.099858   -0.397740
-9.55E-05   -0.276902   -10.125854
0.71832   -5.526790   -6.099858   -0.397740
-9.55E-05   -0.110188   -9.659465
0.85916   -5.526790   -6.099858   -0.397740
-9.55E-05   -0.027114   -11.051686
1.00000   -5.526790   -6.099858   -0.397740
-9.55E-05   -0.106254   -12.835340

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    4.217851   82.054391    0.265544
 0.005200   0.229868   194.440050
0.57748    4.217851   82.054391    0.265544
 0.005200   0.184528   162.167499
0.71832    4.217851   82.054391    0.265544
 0.005200   0.073142   139.855212
0.85916    4.217851   82.054391    0.265544
 0.005200   0.133280   133.105094
1.00000    4.217851   82.054391    0.265544
 0.005200   0.466081   129.981150

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -8.454322   -64.705923   -0.795827
-0.004904   -0.868726   -35.026338
0.57748   -8.454322   -64.705923   -0.795827
-0.004904   -0.539783   -13.693377
0.71832   -8.454322   -64.705923   -0.795827
-0.004904   -0.217706   -10.274541
0.85916   -8.454322   -64.705923   -0.795827
-0.004904   -0.052853   -11.135609
1.00000   -8.454322   -64.705923   -0.795827
-0.004904   -0.149471   -12.577693

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    4.431126   83.669986    0.504841
 0.005629   0.561775   174.234325
0.57748    4.431126   83.669986    0.504841
 0.005629   0.350095   145.554663
0.71832    4.431126   83.669986    0.504841
 0.005629   0.138355   125.968310
0.85916    4.431126   83.669986    0.504841
 0.005629   0.161562   122.235651
1.00000    4.431126   83.669986    0.504841
 0.005629   0.584242   122.729364

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664  -10.709113   -66.482238   -1.009818
-0.004432   -1.109481   -46.220412
0.57748  -10.709113   -66.482238   -1.009818
-0.004432   -0.690348   -31.339220

0.71832  -10.709113   -66.482238   -1.009818
-0.004432   -0.277420   -32.355631
0.85916  -10.709113   -66.482238   -1.009818
-0.004432   -0.086473   -36.941833
1.00000  -10.709113   -66.482238   -1.009818
-0.004432   -0.284927   -42.013762
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3749

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    8.856811   77.822015    0.675529
 0.003917   0.751506   154.221579
0.57748    8.856811   77.822015    0.675529
 0.003917   0.468254   127.242906
0.71832    8.856811   77.822015    0.675529
 0.003917   0.184933   106.919079
0.85916    8.856811   77.822015    0.675529
 0.003917   0.168969    98.994879
1.00000    8.856811   77.822015    0.675529
 0.003917   0.638090   108.795361

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -9.744380  -102.561044   -1.120486
-0.003838   -1.241301  -112.231144
0.57748   -9.744380  -102.561044   -1.120486
-0.003838   -0.774296   -79.155700
0.71832   -9.744380  -102.561044   -1.120486
-0.003838   -0.311506   -56.726396
0.85916   -9.744380  -102.561044   -1.120486
-0.003838   -0.106873   -36.855238
1.00000   -9.744380  -102.561044   -1.120486
-0.003838   -0.381492   -40.400296

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664    8.142432   15.430968    0.441324
 7.40E-06   0.490807   18.807337
0.57748    8.142432   15.430968    0.441324
 7.40E-06   0.305752   12.579018
0.71832    8.142432   15.430968    0.441324
 7.40E-06   0.120681    6.719345
0.85916    8.142432   15.430968    0.441324
 7.40E-06   0.065780    3.487230
1.00000    8.142432   15.430968    0.441324
 7.40E-06   0.255221    3.186384

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -1.381017   -65.683829   -0.451596
-0.001377   -0.502221  -122.918200
0.57748   -1.381017   -65.683829   -0.451596
-0.001377   -0.312867   -95.414053
0.71832   -1.381017   -65.683829   -0.451596
-0.001377   -0.124578   -67.935231
0.85916   -1.381017   -65.683829   -0.451596
-0.001377   -0.064294   -40.467940
1.00000   -1.381017   -65.683829   -0.451596
-0.001377   -0.249405   -13.192093

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664   14.674408   41.360738    0.580676
 0.005737   0.645529   96.246224
0.57748   14.674408   41.360738    0.580676
 0.005737   0.402031   81.445890
0.71832   14.674408   41.360738    0.580676
 0.005737   0.158497   78.701393
0.85916   14.674408   41.360738    0.580676
 0.005737   0.139112   95.803991
1.00000   14.674408   41.360738    0.580676
 0.005737   0.470632   117.603831

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -2.904174  -152.224999   -0.794614
-0.007595   -0.867547  -164.630091
0.57748   -2.904174  -152.224999   -0.794614
-0.007595   -0.540143  -107.832236
0.71832   -2.904174  -152.224999   -0.794614
-0.007595   -0.221183   -70.952798
0.85916   -2.904174  -152.224999   -0.794614
-0.007595   -0.102740   -37.550844
1.00000   -2.904174  -152.224999   -0.794614
-0.007595   -0.328369   -12.771573
Program    SAP2000    Nonlinear    Version    7.42
           File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          3750

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664   12.080479   81.046953    0.614279
 0.004136   0.683594   182.321532
0.57748   12.080479   81.046953    0.614279
 0.004136   0.426044   150.197921
0.71832   12.080479   81.046953    0.614279
 0.004136   0.168404   126.627133
0.85916   12.080479   81.046953    0.614279
 0.004136   0.168199   117.036681
1.00000   12.080479   81.046953    0.614279
 0.004136   0.609263   112.124719

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -7.493687  -126.709559   -1.056582
-0.005515   -1.166718  -152.973359
0.57748   -7.493687  -126.709559   -1.056582
-0.005515   -0.727672  -104.586980
0.71832   -7.493687  -126.709559   -1.056582
-0.005515   -0.294544   -69.909327
0.85916   -7.493687  -126.709559   -1.056582
-0.005515   -0.101322   -37.618301
1.00000   -7.493687  -126.709559   -1.056582
-0.005515   -0.346659   -14.105236

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43664   10.433958   79.480730    0.715398
 0.004126   0.795956   157.281460
0.57748   10.433958   79.480730    0.715398
 0.004126   0.495985   128.605342
0.71832   10.433958   79.480730    0.715398
 0.004126   0.195954   107.729233
0.85916   10.433958   79.480730    0.715398
 0.004126   0.176990    98.634358
1.00000   10.433958   79.480730    0.715398
 0.004126   0.653741    96.663744

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43664   -9.444212  -111.381052   -1.140847
-0.004571   -1.262902  -136.954146
0.57748   -9.444212  -111.381052   -1.140847
-0.004571   -0.787839   -98.778806
```

```
0.71832    -9.444212  -111.381052    -1.140847
-0.004571   -0.317676   -73.003340
0.85916    -9.444212  -111.381052    -1.140847
-0.004571   -0.113999   -50.194743
1.00000    -9.444212  -111.381052    -1.140847
-0.004571   -0.403915   -34.884531

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    2.693788   12.513840    0.517545
 0.001291   0.575533    2.144267
0.57748    2.693788   12.513840    0.517545
 0.001291   0.358356    1.717082
0.71832    2.693788   12.513840    0.517545
 0.001291   0.141218    2.700322
0.85916    2.693788   12.513840    0.517545
 0.001291   0.112333    7.531745
1.00000    2.693788   12.513840    0.517545
 0.001291   0.430719   12.953163

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -3.162374  -13.981200   -0.764464
-8.12E-06   -0.851430   -38.706984
0.57748   -3.162374  -13.981200   -0.764464
-8.12E-06   -0.530918   -39.164243
0.71832   -3.162374  -13.981200   -0.764464
-8.12E-06   -0.210361   -40.475054
0.85916   -3.162374  -13.981200   -0.764464
-8.12E-06   -0.074374   -45.243134
1.00000   -3.162374  -13.981200   -0.764464
-8.12E-06   -0.291810   -50.148632
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                3751

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    3.076176   33.541539    0.803808
 0.002136   0.893824   25.444196
0.57748    3.076176   33.541539    0.803808
 0.002136   0.556483   18.059215
0.71832    3.076176   33.541539    0.803808
 0.002136   0.219104   12.725334
0.85916    3.076176   33.541539    0.803808
 0.002136   0.199502   13.750435
1.00000    3.076176   33.541539    0.803808
 0.002136   0.779319   20.158918

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -8.105396  -22.909572   -1.383461
-0.000146   -1.541258   -52.609629
0.57748   -8.105396  -22.909572   -1.383461
-0.000146   -0.961282   -52.777491
0.71832   -8.105396  -22.909572   -1.383461
-0.000146   -0.381477   -54.560026
0.85916   -8.105396  -22.909572   -1.383461
-0.000146   -0.111079   -61.673422
1.00000   -8.105396  -22.909572   -1.383461
-0.000146   -0.453354   -71.484139

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    2.926555   78.508550    0.839829
 0.001778   0.934169  160.672254
0.57748    2.926555   78.508550    0.839829
 0.001778   0.581751  134.057810
0.71832    2.926555   78.508550    0.839829
 0.001778   0.229117  109.004713
0.85916    2.926555   78.508550    0.839829
 0.001778   0.245688   89.361751
1.00000    2.926555   78.508550    0.839829
 0.001778   0.966304   73.701938

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -10.978138  -22.352583   -1.718743
-1.41E-05   -1.916987   -51.013543
0.57748  -10.978138  -22.352583   -1.718743
-1.41E-05   -1.196249   -50.471720
0.71832  -10.978138  -22.352583   -1.718743
-1.41E-05   -0.475288   -50.929063
0.85916  -10.978138  -22.352583   -1.718743
-1.41E-05   -0.120171   -56.114689
1.00000  -10.978138  -22.352583   -1.718743
-1.41E-05   -0.473091   -63.043834

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    8.086726   74.673059    1.010166
 0.004147   1.122044  160.204546
0.57748    8.086726   74.673059    1.010166
 0.004147   0.798128  136.183851
0.71832    8.086726   74.673059    1.010166
 0.004147   0.274797  120.281018
0.85916    8.086726   74.673059    1.010166
 0.004147   0.291316  121.260321
1.00000    8.086726   74.673059    1.010166
 0.004147   1.109972  134.883634

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.783292  -87.579058   -1.954387
-0.003371   -1.960460   -95.017912
0.57748   -9.783292  -87.579058   -1.954387
-0.003371   -1.353179   -67.317622
0.71832   -9.783292  -87.579058   -1.954387
-0.003371   -0.539076   -51.986932
0.85916   -9.783292  -87.579058   -1.954387
-0.003371   -0.158148   -48.261532
1.00000   -9.783292  -87.579058   -1.954387
-0.003371   -0.578653   -56.343008
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                3752

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    0.337361   31.603723    0.262873
 0.000633   0.292320   58.696513
0.57748    0.337361   31.603723    0.262873
 0.000633   0.181938   46.136394
0.71832    0.337361   31.603723    0.262873
 0.000633   0.071852   34.061961
0.85916    0.337361   31.603723    0.262873
 0.000633   0.096203   23.159326
1.00000    0.337361   31.603723    0.262873
 0.000633   0.378027   15.620227

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -5.859891   -7.180201   -0.672893
-9.23E-05   -0.750745   -13.039247
0.57748   -5.859891   -7.180201   -0.672893
-9.23E-05   -0.468638   -11.616132
0.71832    -5.859891    -7.180201    -0.672893
-9.23E-05    -0.186622    -10.539861
0.85916    -5.859891    -7.180201    -0.672893
-9.23E-05    -0.037828    -10.506716
1.00000    -5.859891    -7.180201    -0.672893
-9.23E-05    -0.147802    -12.172757

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    4.031401   75.233266    0.427212
 0.004540   0.473828  196.545952
0.57748    4.031401   75.233266    0.427212
 0.004540   0.295130  167.686808
0.71832    4.031401   75.233266    0.427212
 0.004540   0.116354  147.725724
0.85916    4.031401   75.233266    0.427212
 0.004540   0.190561  140.907638
1.00000    4.031401   75.233266    0.427212
 0.004540   0.693667  137.507894

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -8.291328  -57.530654   -1.202104
-0.004285   -1.325199   -34.979492
0.57748   -8.291328  -57.530654   -1.202104
-0.004285   -0.826570   -14.253381
0.71832   -8.291328  -57.530654   -1.202104
-0.004285   -0.330730   -10.633150
0.85916   -8.291328  -57.530654   -1.202104
-0.004285   -0.079985   -10.498360
1.00000   -8.291328  -57.530654   -1.202104
-0.004285   -0.253540   -12.070923

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    4.839129   79.514523    0.763632
 0.005104   0.847996  176.147056
0.57748    4.839129   79.514523    0.763632
 0.005104   0.528080  150.543065
0.71832    4.839129   79.514523    0.763632
 0.005104   0.208091  133.213305
0.85916    4.839129   79.514523    0.763632
 0.005104   0.260602  130.753437
1.00000    4.839129   79.514523    0.763632
 0.005104   0.972887  131.945466

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -10.636512  -62.233218   -1.701403
-0.003878   -1.883249   -54.859951
0.57748  -10.636512  -62.233218   -1.701403
-0.003878   -1.174445   -37.867214
0.71832  -10.636512  -62.233218   -1.701403
-0.003878   -0.468726   -36.505314
0.85916  -10.636512  -62.233218   -1.701403
-0.003878   -0.126690   -40.550945
1.00000  -10.636512  -62.233218   -1.701403
-0.003878   -0.441199   -46.655218
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                3753

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    8.470752   76.443740    1.038657
 0.003400   1.153472  158.151823
0.57748    8.470752   76.443740    1.038657
 0.003400   0.718060  132.594676
0.71832    8.470752   76.443740    1.038657
 0.003400   0.282480  112.663877
0.85916    8.470752   76.443740    1.038657
 0.003400   0.296210  106.128056
1.00000    8.470752   76.443740    1.038657
 0.003400   1.139532  118.188747

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.770010  -94.624655   -2.012899
-0.003239   -2.237574   -109.872632
0.57748   -9.770010  -94.624655   -2.012899
-0.003239   -1.396453   -77.635208
0.71832   -9.770010  -94.624655   -2.012899
-0.003239   -0.556759   -55.214692
0.85916   -9.770010  -94.624655   -2.012899
-0.003239   -0.160862   -39.760308
1.00000   -9.770010  -94.624655   -2.012899
-0.003239   -0.593714   -45.225087

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    7.067346   19.317185    0.677739
 4.42E-06   0.752559   21.609989
0.57748    7.067346   19.317185    0.677739
 4.42E-06   0.466317   13.917754
0.71832    7.067346   19.317185    0.677739
 4.42E-06   0.184050    6.517197
0.85916    7.067346   19.317185    0.677739
 4.42E-06   0.139171    3.995102
1.00000    7.067346   19.317185    0.677739
 4.42E-06   0.550257    3.831313

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -1.745070  -61.054259   -0.980415
-0.001428   -1.093411   -116.454526
0.57748   -1.745070  -61.054259   -0.980415
-0.001428   -0.682266   -91.084436
0.71832   -1.745070  -61.054259   -0.980415
-0.001428   -0.271548   -66.045343
0.85916   -1.745070  -61.054259   -0.980415
-0.001428   -0.099497   -45.000339
1.00000   -1.745070  -61.054259   -0.980415
-0.001428   -0.383959   -25.107706

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   13.485475   44.184380    0.940144
 0.005775   1.042163  104.173873
0.57748   13.485475   44.184380    0.940144
 0.005775   0.648431   88.941434
0.71832   13.485475   44.184380    0.940144
 0.005775   0.254756   86.341462
0.85916   13.485475   44.184380    0.940144
 0.005775   0.245541  105.409936
1.00000   13.485475   44.184380    0.940144
 0.005775   0.886481  128.101108

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -3.077356  -143.675289   -1.531984
-0.007682   -1.687166   -157.116013
0.57748   -3.077356  -143.675289   -1.531984
-0.007682   -1.051821   -99.770069
0.71832   -3.077356  -143.675289   -1.531984
-0.007682   -0.421558   -66.561298
0.85916   -3.077356  -143.675289   -1.531984
-0.007682   -0.164684   -41.181032
1.00000   -3.077356  -143.675289   -1.531984
-0.007682   -0.550969   -20.296418
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                3754

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   11.254249   76.595965    0.979429
 0.004353   1.086530  182.084070
0.57748   11.254249   76.595965    0.979429
 0.004353   0.676334  152.670121
0.71832   11.254249   76.595965    0.979429
 0.004353   0.265986  132.640976
0.85916   11.254249   76.595965    0.979429
 0.004353   0.286230  129.179348
1.00000   11.254249   76.595965    0.979429
 0.004353   1.070852  129.108359

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -7.372075  -121.853618   -1.874142
-0.005793   -2.076129   -144.845645
0.57748   -7.372075  -121.853618   -1.874142
-0.005793   -1.295535   -96.104365
0.71832   -7.372075  -121.853618   -1.874142
-0.005793   -0.514263   -64.798584
0.85916   -7.372075  -121.853618   -1.874142
-0.005793   -0.161871   -39.961412
1.00000   -7.372075  -121.853618   -1.874142
-0.005793   -0.567050   -19.551302

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664    9.993823   77.091953    1.100055
 0.004338   1.221085  157.128175
0.57748    9.993823   77.091953    1.100055
 0.004338   0.760068  130.514663
0.71832    9.993823   77.091953    1.100055
 0.004338   0.299125  112.120152
0.85916    9.993823   77.091953    1.100055
 0.004338   0.314124  109.480307
1.00000    9.993823   77.091953    1.100055
 0.004338   1.189506  112.198321

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664   -9.678937  -109.021225   -2.090269
-0.004813   -2.319399   -135.218393
0.57748   -9.678937  -109.021225   -2.090269
-0.004813   -1.447291   -96.038927
0.71832   -9.678937  -109.021225   -2.090269
-0.004813   -0.577967   -71.635209
0.85916   -9.678937  -109.021225   -2.090269
-0.004813   -0.175847   -54.114720
1.00000   -9.678937  -109.021225   -2.090269
-0.004813   -0.632463   -41.695898

COMB     DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   14.674408   83.669986    0.715398
 0.005737   1.221085  194.407150
0.57748   14.674408   83.669986    0.715398
 0.005737   0.495985  162.167499
0.71832   14.674408   83.669986    0.715398
 0.005737   0.195954  139.855212
0.85916   14.674408   83.669986    0.715398
 0.005737   0.176990  133.105094
1.00000   14.674408   83.669986    0.715398
 0.005737   0.653741  129.981150

COMB     DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -11.160118  -152.224999   -1.140847
-0.007595   -1.262902   -164.630091
0.57748  -11.160118  -152.224999   -1.140847
-0.007595   -0.787839   -107.832236
0.71832  -11.160118  -152.224999   -1.140847
-0.007595   -0.317676   -73.003340
0.85916  -11.160118  -152.224999   -1.140847
-0.007595   -0.113999   -53.151148
1.00000  -11.160118  -152.224999   -1.140847
-0.007595   -0.403915   -61.595295
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                3755

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB     DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   13.485475   79.514523    1.100055
 0.005775   1.221085  196.545952
0.57748   13.485475   79.514523    1.100055
 0.005775   0.760068  167.686808
0.71832   13.485475   79.514523    1.100055
 0.005775   0.299125  147.725724
0.85916   13.485475   79.514523    1.100055
 0.005775   0.314124  140.907638
1.00000   13.485475   79.514523    1.100055
 0.005775   1.189506  137.507894

COMB     DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -10.978138  -143.675289   -2.090269
-0.007682   -1.093399   -157.116013
0.57748  -10.978138  -143.675289   -2.090269
-0.007682   -1.447291   -99.770069
0.71832  -10.978138  -143.675289   -2.090269
-0.007682   -0.577967   -71.635209
0.85916  -10.978138  -143.675289   -2.090269
-0.007682   -0.175847   -61.673422
1.00000  -10.978138  -143.675289   -2.090269
-0.007682   -0.632463   -71.484139

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   14.674408   83.669986    1.100055
 0.005775   1.221085  196.545952
0.57748   14.674408   83.669986    1.100055
 0.005775   0.760068  167.686808
0.71832   14.674408   83.669986    1.100055
 0.005775   0.299125  147.725724
0.85916   14.674408   83.669986    1.100055
 0.005775   0.314124  140.907638
1.00000   14.674408   83.669986    1.100055
 0.005775   1.189506  137.507894

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -11.160118  -152.224999   -2.090269
-0.007682   -2.319399   -164.630091
0.57748  -11.160118  -152.224999   -2.090269
-0.007682   -1.447291   -107.832236
0.71832  -11.160118  -152.224999   -2.090269
-0.007682   -0.577967   -73.003340
0.85916  -11.160118  -152.224999   -2.090269
-0.007682   -0.175847   -61.673422
1.00000  -11.160118  -152.224999   -2.090269
-0.007682   -0.632463   -71.484139

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43664   14.674408   83.669986    1.100055
 0.005775   1.221085  196.545952
0.57748   14.674408   83.669986    1.100055
 0.005775   0.760068  167.686808
0.71832   14.674408   83.669986    1.100055
 0.005775   0.299125  147.725724
0.85916   14.674408   83.669986    1.100055
 0.005775   0.314124  140.907638
1.00000   14.674408   83.669986    1.100055
 0.005775   1.189506  137.507894

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43664  -11.160118  -152.224999   -2.090269
-0.007682   -2.319399   -164.630091
0.57748  -11.160118  -152.224999   -2.090269
-0.007682   -1.447291   -107.832236
0.71832  -11.160118  -152.224999   -2.090269
-0.007682   -0.577967   -73.003340
0.85916  -11.160118  -152.224999   -2.090269
-0.007682   -0.175847   -61.673422
1.00000  -11.160118  -152.224999   -2.090269
-0.007682   -0.632463   -71.484139
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                3756

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      359 ================== LENGTH =    2.977165

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.625151   10.433034    0.346797
 0.000829   0.194034    9.447476
0.14084    1.625151   10.433034    0.346797
 0.000829   0.048572   13.815206
0.28167    1.625151   10.433034    0.346797
 0.000829   0.102022   18.253123
0.42251    1.625151   10.433034    0.346797
 0.000829   0.255363   22.720936
0.56334    1.625151   10.433034    0.346797
 0.000829   0.408700   27.234908

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -3.225405  -10.829882   -0.365723
-6.96E-06   -0.204680   -41.295922
0.14084   -3.225405  -10.829882   -0.365723
-6.96E-06   -0.051313   -45.454020
0.28167   -3.225405  -10.829882   -0.365723
-6.96E-06   -0.096777   -49.634257
0.42251   -3.225405  -10.829882   -0.365723
-6.96E-06   -0.242193   -53.825303
0.56334   -3.225405  -10.829882   -0.365723
-6.96E-06   -0.387601   -58.074933

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.787048   32.409324    0.554350
 0.001634   0.310514   16.476586
0.14084    1.787048   32.409324    0.554350
 0.001634   0.078521   21.697312
0.28167    1.787048   32.409324    0.554350
 0.001634   0.188504   27.276085
0.42251    1.787048   32.409324    0.554350
 0.001634   0.469762   33.481288
0.56334    1.787048   32.409324    0.554350
 0.001634   0.751266   40.155931

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -7.745290  -17.190706   -0.671851
-0.000188   -0.375564   -61.615796
0.14084   -7.745290  -17.190706   -0.671851
-0.000188   -0.093850   -72.161209
0.28167   -7.745290  -17.190706   -0.671851
-0.000188   -0.154358   -83.057416
0.42251   -7.745290  -17.190706   -0.671851
-0.000188   -0.386813   -94.443686
0.56334   -7.745290  -17.190706   -0.671851
-0.000188   -0.619244  -107.200773

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.658112   81.621022    0.562662
 0.001763   0.315621   57.604689
0.14084    1.658112   81.621022    0.562662
 0.001763   0.079574   47.214231
0.28167    1.658112   81.621022    0.562662
 0.001763   0.266076   48.962664
0.42251    1.658112   81.621022    0.562662
 0.001763   0.662080   53.428364
0.56334    1.658112   81.621022    0.562662
 0.001763   1.058118   58.809913

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -11.053421  -17.365616   -0.944729
-6.27E-06   -0.526347   -54.387400
0.14084  -11.053421  -17.365616   -0.944729
-6.27E-06   -0.130279   -59.955729
0.28167  -11.053421  -17.365616   -0.944729
-6.27E-06   -0.156159   -73.780025
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                3757

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.42251  -11.053421  -17.365616   -0.944729
-6.27E-06   -0.392125   -106.472029
0.56334  -11.053421  -17.365616   -0.944729
-6.27E-06   -0.628042   -140.195977

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.757268   110.326865    0.648656
 0.004953   0.364618   125.204313
0.14084    5.757268   110.326865    0.648656
 0.004953   0.103037   117.193783
0.28167    5.757268   110.326865    0.648656
 0.004953   0.305959   119.040079
0.42251    5.757268   110.326865    0.648656
 0.004953   0.759545   132.369155
0.56334    5.757268   110.326865    0.648656
 0.004953   1.217623   154.332845

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -11.614246  -58.508452   -1.101350
-0.003881   -0.629522   -48.771472
0.14084  -11.614246  -58.508452   -1.101350
-0.003881   -0.168429   -55.578095
0.28167  -11.614246  -58.508452   -1.101350
-0.003881   -0.180251   -69.500591
0.42251  -11.614246  -58.508452   -1.101350
```

```
-0.003881   -0.452275   -98.631794
0.56334   -11.614246   -58.508452   -1.101350
-0.003881   -0.724248   -137.283315

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.248127    34.289343    0.189179
 0.000674    0.106348    13.662078
0.14084    0.248127    34.289343    0.189179
 0.000674    1.027001    11.678563
0.28167    0.248127    34.289343    0.189179
 0.000674    0.108682    12.309369
0.42251    0.248127    34.289343    0.189179
 0.000674    0.269056    13.435254
0.56334    0.248127    34.289343    0.189179
 0.000674    0.429479    14.742036

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.489474   -6.047270   -0.382680
-9.63E-06   -0.212396   12.837818
0.14084   -5.489474   -6.047270   -0.382680
-9.63E-06   -0.052052   -16.089911
0.28167   -5.489474   -6.047270   -0.382680
-9.63E-06   -0.052229   -28.732034
0.42251   -5.489474   -6.047270   -0.382680
-9.63E-06   -0.131600   -42.173222
0.56334   -5.489474   -6.047270   -0.382680
-9.63E-06   -0.210910   -56.386794

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.289338    129.251979    0.266514
 0.005744    0.151257    130.257253
0.14084    1.289338    129.251979    0.266514
 0.005744    0.053902    92.356633
0.28167    1.289338    129.251979    0.266514
 0.005744    0.216121    67.453064
0.42251    1.289338    129.251979    0.266514
 0.005744    0.530855    58.169987
0.56334    1.289338    129.251979    0.266514
 0.005744    0.851709    60.550638

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -10.833808   -13.707916   -0.777335
-0.004863   -0.452009   -12.571974
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3758

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.14084   -10.833808   -13.707916   -0.777335
-0.004863   -0.127150   -14.200278
0.28167   -10.833808   -13.707916   -0.777335
-0.004863   -0.073514   -25.297949
0.42251   -10.833808   -13.707916   -0.777335
-0.004863   -0.185302   -56.383605
0.56334   -10.833808   -13.707916   -0.777335
-0.004863   -0.297043   -100.379767

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.789854    126.306996    0.501641
 0.005833    0.282669    122.986695
0.14084    1.789854    126.306996    0.501641
 0.005833    0.085262    92.281838
0.28167    1.789854    126.306996    0.501641
 0.005833    0.273529    73.176406
0.42251    1.789854    126.306996    0.501641
 0.005833    0.672186    68.149386
0.56334    1.789854    126.306996    0.501641
 0.005833    1.076372    73.637736

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -12.836056   -20.387474   -0.974918
-0.004394   -0.558769   -42.017681
0.14084   -12.836056   -20.387474   -0.974918
-0.004394   -0.152352   -47.298384
0.28167   -12.836056   -20.387474   -0.974918
-0.004394   -0.139130   -61.476421
0.42251   -12.836056   -20.387474   -0.974918
-0.004394   -0.349519   -93.520694
0.56334   -12.836056   -20.387474   -0.974918
-0.004394   -0.559846   -137.103402

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.179866    105.630216    0.669158
 0.004100    0.376070    108.939545
0.14084    7.179866    105.630216    0.669158
 0.004100    0.103954    110.045217
0.28167    7.179866    105.630216    0.669158
 0.004100    0.312460    121.236758
0.42251    7.179866    105.630216    0.669158
 0.004100    0.774626    142.334096
0.56334    7.179866    105.630216    0.669158
 0.004100    1.240461    170.509176

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -11.116306   -72.802478   -1.118218
-0.003583   -0.635011   -40.395214
0.14084   -11.116306   -72.802478   -1.118218
-0.003583   -0.167971   -47.851990
0.28167   -11.116306   -72.802478   -1.118218
-0.003583   -0.185785   -62.661183
0.42251   -11.116306   -72.802478   -1.118218
-0.003583   -0.466421   -92.845886
0.56334   -11.116306   -72.802478   -1.118218
-0.003583   -0.746988   -130.814875

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.203112    15.434891    0.435500
 1.80E-05    0.244132    3.182906
0.14084    8.203112    15.434891    0.435500
 1.80E-05    0.061527    16.243966
0.28167    8.203112    15.434891    0.435500
 1.80E-05    0.131091    43.585049
0.42251    8.203112    15.434891    0.435500
 1.80E-05    0.331746    71.181075
0.56334    8.203112    15.434891    0.435500
 1.80E-05    0.532419    98.833915
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3759

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -1.375089   -66.098435   -0.478618
-0.001296   -0.270301   -13.219836
0.14084   -1.375089   -66.098435   -0.478618
-0.001296   -0.069661   -15.807507
0.28167   -1.375089   -66.098435   -0.478618
-0.001296   -0.121050   -21.382569
0.42251   -1.375089   -66.098435   -0.478618
-0.001296   -0.303669   -27.267699
0.56334   -1.375089   -66.098435   -0.478618
-0.001296   -0.486273   -33.626658

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   11.178558    99.511075    0.571548
 0.005959    0.321892    117.958781
0.14084   11.178558    99.511075    0.571548
 0.005959    0.099720    113.936254
0.28167   11.178558    99.511075    0.571548
 0.005959    0.228958    119.131601
0.42251   11.178558    99.511075    0.571548
 0.005959    0.569622    141.553562
0.56334   11.178558    99.511075    0.571548
 0.005959    0.917726    177.433080

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.876678   -90.702623   -0.844721
-0.007369   -0.499011   -12.750196
0.14084   -5.876678   -90.702623   -0.844721
-0.007369   -0.146003   -19.839703
0.28167   -5.876678   -90.702623   -0.844721
-0.007369   -0.158966   -27.077412
0.42251   -5.876678   -90.702623   -0.844721
-0.007369   -0.398647   -37.742565
0.56334   -5.876678   -90.702623   -0.844721
-0.007369   -0.638299   -67.024370

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.704446    120.525194    0.609594
 0.004660    0.343247    112.347048
0.14084    9.704446    120.525194    0.609594
 0.004660    0.099648    107.752565
0.28167    9.704446    120.525194    0.609594
 0.004660    0.300327    117.326019
0.42251    9.704446    120.525194    0.609594
 0.004660    0.747511    140.089156
0.56334    9.704446    120.525194    0.609594
 0.004660    1.199813    172.612460

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -9.475067   -84.681001   -1.088866
-0.005338   -0.626395   -14.083277
0.14084   -9.475067   -84.681001   -1.088866
-0.005338   -0.170758   -18.834960
0.28167   -9.475067   -84.681001   -1.088866
-0.005338   -0.168994   -32.839594
0.42251   -9.475067   -84.681001   -1.088866
-0.005338   -0.424656   -64.527224
0.56334   -9.475067   -84.681001   -1.088866
-0.005338   -0.680228   -106.540089

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.474028    111.987663    0.709108
 0.004402    0.398715    96.854962
0.14084    8.474028    111.987663    0.709108
 0.004402    0.111271    95.464361
0.28167    8.474028    111.987663    0.709108
 0.004402    0.320806    106.018039
0.42251    8.474028    111.987663    0.709108
 0.004402    0.796904    127.546343
0.56334    8.474028    111.987663    0.709108
 0.004402    1.277245    157.198072
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3760

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -11.063019   -76.620102   -1.153981
-0.004423   -0.658206   -34.874881
0.14084   -11.063019   -76.620102   -1.153981
-0.004423   -0.175121   -43.113403
0.28167   -11.063019   -76.620102   -1.153981
-0.004423   -0.196784   -58.666791
0.42251   -11.063019   -76.620102   -1.153981
-0.004423   -0.494162   -89.392453
0.56334   -11.063019   -76.620102   -1.153981
-0.004423   -0.791480   -129.086648

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.671259    12.512031    0.523883
 0.000887    0.294241    12.966935
0.14084    2.671259    12.512031    0.523883
 0.000887    0.074303    18.629353
0.28167    2.671259    12.512031    0.523883
 0.000887    0.209148    24.348622
0.42251    2.671259    12.512031    0.523883
 0.000887    0.520807    30.087764
0.56334    2.671259    12.512031    0.523883
 0.000887    0.832468    35.839933

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -3.135527   -13.924891   -0.743351
-4.09E-06   -0.414258   -50.166212
0.14084   -3.135527   -13.924891   -0.743351
-4.09E-06   -0.102484   -55.124250
0.28167   -3.135527   -13.924891   -0.743351
-4.09E-06   -0.144110   -60.157932
0.42251   -3.135527   -13.924891   -0.743351
-4.09E-06   -0.363984   -65.242313
0.56334   -3.135527   -13.924891   -0.743351
-4.09E-06   -0.583729   -70.355872

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.987085    34.412426    0.809855
 0.001641    0.454869    20.181571
0.14084    2.987085    34.412426    0.809855
 0.001641    0.115209    27.562395
0.28167    2.987085    34.412426    0.809855
 0.001641    0.381036    35.520322
0.42251    2.987085    34.412426    0.809855
 0.001641    0.949382    43.935353
0.56334    2.987085    34.412426    0.809855
 0.001641    1.517829    52.653502

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -8.124028   -21.743238   -1.356237
-0.000114   -0.756923   -71.514594
0.14084   -8.124028   -21.743238   -1.356237
-0.000114   -0.188357   -82.913502
0.28167   -8.124028   -21.743238   -1.356237
-0.000114   -0.222642   -94.914574
0.42251   -8.124028   -21.743238   -1.356237
-0.000114   -0.562600   -107.958593
0.56334   -8.124028   -21.743238   -1.356237
-0.000114   -0.902404   -121.850513

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.910804    77.931488    0.848184
 0.001749    0.476485    73.703492
0.14084    2.910804    77.931488    0.848184
 0.001749    0.120429    63.451115
0.28167    2.910804    77.931488    0.848184
 0.001749    0.475325    60.132090
0.42251    2.910804    77.931488    0.848184
 0.001749    1.184881    65.141384
0.56334    2.910804    77.931488    0.848184
 0.001749    1.894205    72.414336
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3761

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -10.895269   -22.335122   -1.691793
-0.000126   -0.943784   -63.067252
0.14084   -10.895269   -22.335122   -1.691793
-0.000126   -0.234266   -70.445994
0.28167   -10.895269   -22.335122   -1.691793
-0.000126   -0.232680   -83.990360
0.42251   -10.895269   -22.335122   -1.691793
-0.000126   -0.588852   -112.924722
0.56334   -10.895269   -22.335122   -1.691793
-0.000126   -0.944659   -144.044570

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    6.429397    100.507738    1.008554
 0.004143    0.574765    134.895626
0.14084    6.429397    100.507738    1.008554
 0.004143    0.154858    130.062386
0.28167    6.429397    100.507738    1.008554
 0.004143    0.540999    131.001574
0.42251    6.429397    100.507738    1.008554
 0.004143    1.349042    145.635506
0.56334    6.429397    100.507738    1.008554
 0.004143    2.158685    167.454657

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -11.187871   -60.191037   -1.939419
-0.003164   -1.095427   -56.353883
0.14084   -11.187871   -60.191037   -1.939419
-0.003164   -0.282875   -65.079881
0.28167   -11.187871   -60.191037   -1.939419
-0.003164   -0.277850   -79.134236
0.42251   -11.187871   -60.191037   -1.939419
-0.003164   -0.700873   -105.777382
0.56334   -11.187871   -60.191037   -1.939419
-0.003164   -1.123610   -143.767748

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    0.343781    31.462671    0.263580
 0.000654    0.047906    15.178210
0.14084    0.343781    31.462671    0.263580
 0.000654    0.037521    12.744128
0.28167    0.343781    31.462671    0.263580
 0.000654    0.187565    13.719671
0.42251    0.343781    31.462671    0.263580
 0.000654    0.467514    15.586580
0.56334    0.343781    31.462671    0.263580
 0.000654    0.747574    17.806033

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.845468   -7.156665   -0.668097
-5.64E-06   -0.373061   -12.178332
0.14084   -5.845468   -7.156665   -0.668097
-5.64E-06   -0.093228   -17.016532
0.28167   -5.845468   -7.156665   -0.668097
-5.64E-06   -0.072422   -27.881504
0.42251   -5.845468   -7.156665   -0.668097
-5.64E-06   -0.051751   -39.373573
0.56334   -5.845468   -7.156665   -0.668097
-5.64E-06   -0.293506   -52.590953

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.477056    114.775660    0.428221
 0.004960    0.254104    137.531553
0.14084    1.477056    114.775660    0.428221
 0.004960    0.079983    101.964736
0.28167    1.477056    114.775660    0.428221
 0.004960    0.332070    74.120147
0.42251    1.477056    114.775660    0.428221
 0.004960    0.825557    65.687058
0.56334    1.477056    114.775660    0.428221
 0.004960    1.321232    67.544764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3762

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -10.474636   -15.256657   -1.195793
-0.004173   -0.866845   -12.071430
0.14084   -10.474636   -15.256657   -1.195793
-0.004173   -0.186451   -14.248102
0.28167   -10.474636   -15.256657   -1.195793
-0.004173   -0.117359   -24.326110
0.42251   -10.474636   -15.256657   -1.195793
-0.004173   -0.296404   -50.263185
0.56334   -10.474636   -15.256657   -1.195793
-0.004173   -0.475577   -92.788066

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    2.519048    115.276721    0.766674
 0.005176    0.442663    131.978489
0.14084    2.519048    115.276721    0.766674
 0.005176    0.125727    104.054551
0.28167    2.519048    115.276721    0.766674
 0.005176    0.468538    83.190088
0.42251    2.519048    115.276721    0.766674
 0.005176    1.164704    79.852676
0.56334    2.519048    115.276721    0.766674
 0.005176    1.863113    85.750664

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -12.586957   -23.961182   -1.677631
-0.003777   -0.952944   -46.669906
0.14084   -12.586957   -23.961182   -1.677631
-0.003777   -0.250851   -53.249854
0.28167   -12.586957   -23.961182   -1.677631
-0.003777   -0.210668   -67.332740
0.42251   -12.586957   -23.961182   -1.677631
-0.003777   -0.531861   -95.506731
0.56334   -12.586957   -23.961182   -1.677631
-0.003777   -0.853078   -138.659001

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.128739    97.832762    1.028694
 0.003466    0.584013    118.183447
0.14084    7.128739    97.832762    1.028694
 0.003466    0.155223    120.447114
0.28167    7.128739    97.832762    1.028694
 0.003466    0.559675    128.761430
0.42251    7.128739    97.832762    1.028694
 0.003466    1.397297    149.700482
0.56334    7.128739    97.832762    1.028694
 0.003466    2.235923    176.771309

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -10.934135   -72.042383   -2.007424
-0.002966   -1.131724   -45.227229
0.14084   -10.934135   -72.042383   -2.007424
-0.002966   -0.291130   -54.577718
0.28167   -10.934135   -72.042383   -2.007424
-0.002966   -0.284119   -70.189171
0.42251   -10.934135   -72.042383   -2.007424
-0.002966   -0.715416   -97.931563
0.56334   -10.934135   -72.042383   -2.007424
-0.002966   -1.146642   -135.370781

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.124617    19.278150    0.656398
 1.34E-05    0.367134    3.827061
0.14084    7.124617    19.278150    0.656398
 1.34E-05    0.091983    15.863976
0.28167    7.124617    19.278150    0.656398
 1.34E-05    0.276856    40.582379
0.42251    7.124617    19.278150    0.656398
 1.34E-05    0.696863    65.793073
0.56334    7.124617    19.278150    0.656398
 1.34E-05    1.116907    91.242661
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3763

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -1.753279   -61.351868   -1.001654
-0.001292   -0.562234   -25.124758
0.14084   -1.753279   -61.351868   -1.001654
-0.001292   -0.142024   -23.375164
0.28167   -1.753279   -61.351868   -1.001654
-0.001292   -0.182915   -30.162885
0.42251   -1.753279   -61.351868   -1.001654
-0.001292   -0.458226   -37.634944
0.56334   -1.753279   -61.351868   -1.001654
-0.001292   -0.733507   -45.478140

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    9.915937    100.859288    0.913269
 0.005914    0.530229    128.144307
0.14084    9.915937    100.859288    0.913269
 0.005914    0.154740    122.318608
0.28167    9.915937    100.859288    0.913269
 0.005914    0.427772    123.850388
0.42251    9.915937    100.859288    0.913269
 0.005914    1.070053    141.725473
0.56334    9.915937    100.859288    0.913269
 0.005914    1.716167    172.373650

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -6.248043   -84.077537   -1.559200
-0.007346   -0.900637   -20.290385
0.14084   -6.248043   -84.077537   -1.559200
-0.007346   -0.248035   -26.315346
0.28167   -6.248043   -84.077537   -1.559200
-0.007346   -0.254022   -35.415348
0.42251   -6.248043   -84.077537   -1.559200
-0.007346   -0.636377   -48.233393
0.56334   -6.248043   -84.077537   -1.559200
-0.007346   -1.018803   -83.588618

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.704787    117.207662    0.958759
 0.004754    0.550756    129.128320
0.14084    8.704787    117.207662    0.958759
 0.004754    0.154296    119.067908
0.28167    8.704787    117.207662    0.958759
 0.004754    0.524448    119.746772
0.42251    8.704787    117.207662    0.958759
 0.004754    1.311470    138.725891
0.56334    8.704787    117.207662    0.958759
 0.004754    2.100826    167.564506

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -9.628649   -79.028592   -1.896315
-0.005504   -1.081392   -19.546751
0.14084   -9.628649   -79.028592   -1.896315
-0.005504   -0.286982   -24.244040
0.28167   -9.628649   -79.028592   -1.896315
-0.005504   -0.265690   -39.244697
0.42251   -9.628649   -79.028592   -1.896315
-0.005504   -0.667234   -66.798197
0.56334   -9.628649   -79.028592   -1.896315
-0.005504   -1.068805   -110.481935

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    7.875573    110.703273    1.083354
 0.004523    0.618383    112.223384
0.14084    7.875573    110.703273    1.083354
 0.004523    0.168551    107.039303
0.28167    7.875573    110.703273    1.083354
 0.004523    0.582932    110.723033
0.42251    7.875573    110.703273    1.083354
 0.004523    1.456018    129.659889
0.56334    7.875573    110.703273    1.083354
 0.004523    2.331106    156.836336
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3764

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -11.533607   -73.477598   -2.098460
-0.004572   -1.189878   -41.704906
0.14084   -11.533607   -73.477598   -2.098460
-0.004572   -0.310565   -50.459058
0.28167   -11.533607   -73.477598   -2.098460
-0.004572   -0.299728   -67.142799
0.42251   -11.533607   -73.477598   -2.098460
-0.004572   -0.753671   -95.692712
0.56334   -11.533607   -73.477598   -2.098460
-0.004572   -1.207655   -137.396818

COMB      DB ------------------- MAX
```

```
REL DIST          P          V2          V3
     T         M2         M3
0.00000  11.178558  129.251979    0.709108
 0.005959   0.398715  130.257253
0.14084  11.178558  129.251979    0.709108
 0.005959   0.111271  117.193783
0.28167  11.178558  129.251979    0.709108
 0.005959   0.320806  121.236758
0.42251  11.178558  129.251979    0.709108
 0.005959   0.796904  142.334096
0.56334  11.178558  129.251979    0.709108
 0.005959   1.277245  177.433080

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -12.836056  -90.702623   -1.153981
-0.007369   -0.655206  -61.615796
0.14084  -12.836056  -90.702623   -1.153981
-0.007369   -0.175121  -72.161209
0.28167  -12.836056  -90.702623   -1.153981
-0.007369   -0.196784  -83.057416
0.42251  -12.836056  -90.702623   -1.153981
-0.007369   -0.494162 -106.472029
0.56334  -12.836056  -90.702623   -1.153981
-0.007369   -0.791480 -140.195977

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   9.915937  117.207662    1.083354
 0.005914   0.618383  137.531553
0.14084   9.915937  117.207662    1.083354
 0.005914   0.168551  130.062386
0.28167   9.915937  117.207662    1.083354
 0.005914   0.582932  131.001574
0.42251   9.915937  117.207662    1.083354
 0.005914   1.456018  149.700482
0.56334   9.915937  117.207662    1.083354
 0.005914   2.331106  176.771309

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -12.586957  -84.077537   -2.098460
-0.007346   -1.189878   -71.514594
0.14084  -12.586957  -84.077537   -2.098460
-0.007346   -0.310565   -82.913502
0.28167  -12.586957  -84.077537   -2.098460
-0.007346   -0.299728   -94.914574
0.42251  -12.586957  -84.077537   -2.098460
-0.007346   -0.753671  -112.924722
0.56334  -12.586957  -84.077537   -2.098460
-0.007346   -1.207655  -144.044570

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000  11.178558  129.251979    1.083354
 0.005959   0.618383  137.531553
0.14084  11.178558  129.251979    1.083354
 0.005959   0.168551  130.062386
0.28167  11.178558  129.251979    1.083354
 0.005959   0.582932  131.001574
0.42251  11.178558  129.251979    1.083354
 0.005959   1.456018  149.700482
0.56334  11.178558  129.251979    1.083354
 0.005959   2.331106  177.433080
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3765

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -12.836056  -90.702623   -2.098460
-0.007369   -1.189878   -71.514594
0.14084  -12.836056  -90.702623   -2.098460
-0.007369   -0.310565   -82.913502
0.28167  -12.836056  -90.702623   -2.098460
-0.007369   -0.299728   -94.914574
0.42251  -12.836056  -90.702623   -2.098460
-0.007369   -0.753671  -112.924722
0.56334  -12.836056  -90.702623   -2.098460
-0.007369   -1.207655  -144.044570

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000  11.178558  129.251979    1.083354
 0.005959   0.618383  137.531553
0.14084  11.178558  129.251979    1.083354
 0.005959   0.168551  130.062386
0.28167  11.178558  129.251979    1.083354
 0.005959   0.582932  131.001574
0.42251  11.178558  129.251979    1.083354
 0.005959   1.456018  149.700482
0.56334  11.178558  129.251979    1.083354
 0.005959   2.331106  177.433080

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -12.836056  -90.702623   -2.098460
-0.007369   -1.189878   -71.514594
0.14084  -12.836056  -90.702623   -2.098460
-0.007369   -0.310565   -82.913502
0.28167  -12.836056  -90.702623   -2.098460
-0.007369   -0.299728   -94.914574
0.42251  -12.836056  -90.702623   -2.098460
-0.007369   -0.753671  -112.924722
0.56334  -12.836056  -90.702623   -2.098460
-0.007369   -1.207655  -144.044570

ELEM      360 ================== LENGTH
=    2.977638

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   0.379801   17.212517    0.364838
 0.000957   0.405515   1.567650
0.57744   0.379801   17.212517    0.364838
 0.000957   0.252498   1.291087
0.71829   0.379801   17.212517    0.364838
 0.000957   0.099471   2.547024
0.85915   0.379801   17.212517    0.364838
 0.000957   0.054760   4.855428
1.00000   0.379801   17.212517    0.364838
 0.000957   0.211165   7.530374

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -4.338248   -6.982001   -0.372857
-1.33E-05   -0.414354  -24.239937
0.57744  -4.338248   -6.982001   -0.372857
-1.33E-05   -0.257975  -30.900420
0.71829  -4.338248   -6.982001   -0.372857
-1.33E-05   -0.101605  -37.611627
0.85915  -4.338248   -6.982001   -0.372857
-1.33E-05   -0.053469  -44.350536
1.00000  -4.338248   -6.982001   -0.372857
-1.33E-05   -0.206551  -51.167398

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   0.839101   42.243229    0.580492
 0.001807   0.645495   29.729006
0.57744   0.839101   42.243229    0.580492
 0.001807   0.402034   21.342242
0.71829   0.839101   42.243229    0.580492
 0.001807   0.158544   15.341936
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3766

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.85915   0.839101   42.243229    0.580492
 0.001807   0.091627   11.978298
1.00000   0.839101   42.243229    0.580492
 0.001807   0.353348   14.448250

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -8.371209  -11.996942   -0.623841
-0.000317   -0.693251  -29.633393
0.57744  -8.371209  -11.996942   -0.623841
-0.000317   -0.431639  -36.913739
0.71829  -8.371209  -11.996942   -0.623841
-0.000317   -0.170624  -46.610038
0.85915  -8.371209  -11.996942   -0.623841
-0.000317   -0.085376  -58.768132
1.00000  -8.371209  -11.996942   -0.623841
-0.000317   -0.326369  -71.678636

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   0.842625   94.096869    0.586663
 0.001416   0.652859  174.088559
0.57744   0.842625   94.096869    0.586663
 0.001416   0.406809  143.042179
0.71829   0.842625   94.096869    0.586663
 0.001416   0.160707  113.663837
0.85915   0.842625   94.096869    0.586663
 0.001416   0.119525   86.042222
1.00000   0.842625   94.096869    0.586663
 0.001416   0.465866   62.009288

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -11.630594   -9.757385   -0.825452
-5.51E-05   -0.918944  -26.616728
0.57744  -11.630594   -9.757385   -0.825452
-5.51E-05   -0.572743  -34.028223
0.71829  -11.630594   -9.757385   -0.825452
-5.51E-05   -0.226562  -42.662854
0.85915  -11.630594   -9.757385   -0.825452
-5.51E-05   -0.085178  -52.932265
1.00000  -11.630594   -9.757385   -0.825452
-5.51E-05   -0.331339  -63.683191

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   7.338376   83.473005    0.668024
 0.004702   0.743147  162.689553
0.57744   7.338376   83.473005    0.668024
 0.004702   0.462973  137.301359
0.71829   7.338376   83.473005    0.668024
 0.004702   0.182749  122.011983
0.85915   7.338376   83.473005    0.668024
 0.004702   0.148057  120.379263
1.00000   7.338376   83.473005    0.668024
 0.004702   0.533634  133.263713

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -10.037998  -92.622912   -0.920339
-0.004075   -1.010769  -83.258638
0.57744  -10.037998  -92.622912   -0.920339
-0.004075   -0.625449  -58.823317
0.71829  -10.037998  -92.622912   -0.920339
-0.004075   -0.251877  -47.464289
0.85915  -10.037998  -92.622912   -0.920339
-0.004075   -0.108766  -45.626944
1.00000  -10.037998  -92.622912   -0.920339
-0.004075   -0.377983  -55.790443

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   0.528644   39.032682    0.194623
 0.000625   0.216827   70.029248
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3767

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.57744   0.528644   39.032682    0.194623
 0.000625   0.135209   54.136534
0.71829   0.528644   39.032682    0.194623
 0.000625   0.053569   38.745760
0.85915   0.528644   39.032682    0.194623
 0.000625   0.042141   24.040287
1.00000   0.528644   39.032682    0.194623
 0.000625   0.165274   14.856275

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -4.978028   -2.418368   -0.293603
-0.000176   -0.327727   -5.442726
0.57744  -4.978028   -2.418368   -0.293603
-0.000176   -0.204138   -4.651146
0.71829  -4.978028   -2.418368   -0.293603
-0.000176   -0.081048   -5.365983
0.85915  -4.978028   -2.418368   -0.293603
-0.000176   -0.028045   -8.189491
1.00000  -4.978028   -2.418368   -0.293603
-0.000176   -0.109601  -11.689855

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   4.524406   86.647222    0.271689
 0.005176   0.302755  210.634591
0.57744   4.524406   86.647222    0.271689
 0.005176   0.188811  176.805771
0.71829   4.524406   86.647222    0.271689
 0.005176   0.074819  153.394038
0.85915   4.524406   86.647222    0.271689
 0.005176   0.106336  144.741132
1.00000   4.524406   86.647222    0.271689
 0.005176   0.358027  139.851412

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -7.784314  -61.650588   -0.601861
-0.004936   -0.652225  -24.105246
0.57744  -7.784314  -61.650588   -0.601861
-0.004936   -0.400731   -5.544493
0.71829  -7.784314  -61.650588   -0.601861
-0.004936   -0.164665   -4.881223
0.85915  -7.784314  -61.650588   -0.601861
-0.004936   -0.054824   -7.908853
1.00000  -7.784314  -61.650588   -0.601861
-0.004936   -0.153612  -11.601563

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   4.394699   92.945903    0.519482
 0.005402   0.578156  188.750737
0.57744   4.394699   92.945903    0.519482
 0.005402   0.360286  158.383416
0.71829   4.394699   92.945903    0.519482
 0.005402   0.142359  138.491108
0.85915   4.394699   92.945903    0.519482
 0.005402   0.136786  133.058085
1.00000   4.394699   92.945903    0.519482
 0.005402   0.480642  130.615140

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -10.492497  -60.525618   -0.821361
-0.004450   -0.897799   -33.556718
0.57744  -10.492497  -60.525618   -0.821361
-0.004450   -0.554155   -23.063732
0.71829  -10.492497  -60.525618   -0.821361
-0.004450   -0.224418   -28.963569
0.85915  -10.492497  -60.525618   -0.821361
-0.004450   -0.089581   -37.841313
1.00000  -10.492497  -60.525618   -0.821361
-0.004450   -0.293858   -47.214773
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3768

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   9.242895   81.840812    0.683195
 0.003834   0.760139  161.209666
0.57744   9.242895   81.840812    0.683195
 0.003834   0.473605  134.418114
0.71829   9.242895   81.840812    0.683195
 0.003834   0.187010  115.326364
0.85915   9.242895   81.840812    0.683195
 0.003834   0.145870  108.031833
1.00000   9.242895   81.840812    0.683195
 0.003834   0.533145  117.878948

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -9.223390  -103.238419   -0.924292
-0.003696   -1.017792  -108.213687
0.57744  -9.223390  -103.238419   -0.924292
-0.003696   -0.630692   -76.671408
0.71829  -9.223390  -103.238419   -0.924292
-0.003696   -0.252722   -55.790412
0.85915  -9.223390  -103.238419   -0.924292
-0.003696   -0.108690   -37.095082
1.00000  -9.223390  -103.238419   -0.924292
-0.003696   -0.386346   -43.554374

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   9.013444   8.579974    0.433006
 7.30E-06   0.481603   9.546195
0.57744   9.013444   8.579974    0.433006
 7.30E-06   0.299996   6.331393
0.71829   9.013444   8.579974    0.433006
 7.30E-06   0.118370   4.187064
0.85915   9.013444   8.579974    0.433006
 7.30E-06   0.063538   3.677312
1.00000   9.013444   8.579974    0.433006
 7.30E-06   0.246340   3.169534

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -0.737042  -75.706302   -0.435659
-0.001125   -0.484544  -138.176291
0.57744  -0.737042  -75.706302   -0.435659
-0.001125   -0.301826  -106.473993
0.71829  -0.737042  -75.706302   -0.435659
-0.001125   -0.119115   -74.796852
0.85915  -0.737042  -75.706302   -0.435659
-0.001125   -0.063165   -43.129573
1.00000  -0.737042  -75.706302   -0.435659
-0.001125   -0.244824   -11.480624

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659  15.320130  33.471974    0.558397
 0.005770   0.620846  88.854240
0.57744  15.320130  33.471974    0.558397
 0.005770   0.386655  78.058467
0.71829  15.320130  33.471974    0.558397
 0.005770   0.152415  79.956876
0.85915  15.320130  33.471974    0.558397
 0.005770   0.128126  101.267488
1.00000  15.320130  33.471974    0.558397
 0.005770   0.426704  123.252738

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -2.073419  -164.277627   -0.714094
-0.007277   -0.771955  -178.277370
0.57744  -2.073419  -164.277627   -0.714094
-0.007277   -0.473592  -117.781538
0.71829  -2.073419  -164.277627   -0.714094
-0.007277   -0.194002   -77.462314
0.85915  -2.073419  -164.277627   -0.714094
-0.007277   -0.100864   -39.505737
1.00000  -2.073419  -164.277627   -0.714094
-0.007277   -0.316633   -9.986872
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3769

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659  13.139200  76.941454    0.610013
 0.004125   0.678929  185.548602
0.57744  13.139200  76.941454    0.610013
 0.004125   0.423109  155.687713
0.71829  13.139200  76.941454    0.610013
 0.004125   0.167200  134.706614
0.85915  13.139200  76.941454    0.610013
 0.004125   0.146144  127.177789
1.00000  13.139200  76.941454    0.610013
 0.004125   0.520682  121.169706

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -6.422407  -134.897331   -0.894414
-0.005248   -0.980278  -159.448448
0.57744  -6.422407  -134.897331   -0.894414
-0.005248   -0.605931  -108.889130
0.71829  -6.422407  -134.897331   -0.894414
-0.005248   -0.244469   -72.224553
0.85915  -6.422407  -134.897331   -0.894414
-0.005248   -0.101681   -37.227408
1.00000  -6.422407  -134.897331   -0.894414
-0.005248   -0.344918   -10.995079

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659  11.286187  80.264006    0.718592
 0.004029   0.799608  162.604210
0.57744  11.286187  80.264006    0.718592
 0.004029   0.498228  134.134593
0.71829  11.286187  80.264006    0.718592
 0.004029   0.196789  114.697687
0.85915  11.286187  80.264006    0.718592
 0.004029   0.153390  107.296363
1.00000  11.286187  80.264006    0.718592
 0.004029   0.556892  103.599114

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -8.471466  -115.513424   -0.963214
-0.004384   -1.059411  -138.227595
0.57744  -8.471466  -115.513424   -0.963214
-0.004384   -0.656074   -99.925486
0.71829  -8.471466  -115.513424   -0.963214
-0.004384   -0.263396   -74.004886
0.85915  -8.471466  -115.513424   -0.963214
-0.004384   -0.115301   -50.654321
1.00000  -8.471466  -115.513424   -0.963214
-0.004384   -0.406321   -35.000877

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   0.480512  22.193238    0.494108
 0.000944   0.549012   1.772085
0.57744   0.480512  22.193238    0.494108
 0.000944   0.341672   1.477713
0.71829   0.480512  22.193238    0.494108
 0.000944   0.134315   3.474035
0.85915   0.480512  22.193238    0.494108
 0.000944   0.096791   6.691747
1.00000   0.480512  22.193238    0.494108
 0.000944   0.379773  10.138800

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -4.257920  -8.830217   -0.674223
-9.63E-06   -0.750693  -31.273111
0.57744  -4.257920  -8.830217   -0.674223
-9.63E-06   -0.467833  -37.511613
0.71829  -4.257920  -8.830217   -0.674223
-9.63E-06   -0.184466  -45.505268
0.85915  -4.257920  -8.830217   -0.674223
-9.63E-06   -0.071916  -54.413927
1.00000  -4.257920  -8.830217   -0.674223
-9.63E-06   -0.279334  -63.411981
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3770

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   0.895883  49.442970    0.766616
 0.001637   0.851377  32.226748
0.57744   0.895883  49.442970    0.766616
 0.001637   0.530258  23.031161
0.71829   0.895883  49.442970    0.766616
 0.001637   0.208394  17.063647
0.85915   0.895883  49.442970    0.766616
 0.001637   0.169671  14.319956
1.00000   0.895883  49.442970    0.766616
 0.001637   0.664551  16.872856

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -8.277752  -13.659190   -1.180951
-0.000238   -1.315489  -36.528080
0.57744  -8.277752  -13.659190   -1.180951
-0.000238   -0.820052  -44.220530
0.71829  -8.277752  -13.659190   -1.180951
-0.000238   -0.324647  -55.507919
0.85915  -8.277752  -13.659190   -1.180951
-0.000238   -0.111917  -69.110575
1.00000  -8.277752  -13.659190   -1.180951
-0.000238   -0.433308  -85.433267

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   0.985770  94.815455    0.752573
 0.001357   0.836594  179.288755
0.57744   0.985770  94.815455    0.752573
 0.001357   0.520970  150.240085
0.71829   0.985770  94.815455    0.752573
 0.001357   0.205349  123.789063
0.85915   0.985770  94.815455    0.752573
 0.001357   0.198262  99.844498
1.00000   0.985770  94.815455    0.752573
 0.001357   0.779820  79.624511

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -10.904557  -12.532058   -1.387096
-7.07E-05   -1.546782   -33.329300
0.57744  -10.904557  -12.532058   -1.387096
-7.07E-05   -0.965160   -40.526137
0.71829  -10.904557  -12.532058   -1.387096
-7.07E-05   -0.382773   -50.321395
0.85915  -10.904557  -12.532058   -1.387096
-7.07E-05   -0.109799   -62.143533
1.00000  -10.904557  -12.532058   -1.387096
-7.07E-05   -0.425401   -75.819774

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.43659   6.543949  85.175862    0.885414
 0.003888   0.982400  171.878910
0.57744   6.543949  85.175862    0.885414
 0.003888   0.611267  147.942821
0.71829   6.543949  85.175862    0.885414
 0.003888   0.240286  133.550817
0.85915   6.543949  85.175862    0.885414
 0.003888   0.236560  133.545911
1.00000   6.543949  85.175862    0.885414
 0.003888   0.891407  145.720379

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.43659  -9.387406  -83.861379   -1.563202
-0.003271   -1.731236  -81.996901
0.57744  -9.387406  -83.861379   -1.563202
-0.003271   -1.077491   -59.442264
0.71829  -9.387406  -83.861379   -1.563202
-0.003271   -0.429976   -51.731682
0.85915  -9.387406  -83.861379   -1.563202
-0.003271   -0.142288   -53.401373
1.00000  -9.387406  -83.861379   -1.563202
-0.003271   -0.511296   -66.207003
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    3771

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX
```

REL DIST P V2 V3
T M2 M3
0.43659 0.463397 37.214376 0.236473
0.000527 0.263113 70.422106
0.57744 0.463397 37.214376 0.236473
0.000527 0.163770 55.386048
0.71829 0.463397 37.214376 0.236473
0.000527 0.064833 40.821530
0.85915 0.463397 37.214376 0.236473
0.000527 0.075246 27.446888
1.00000 0.463397 37.214376 0.236473
0.000527 0.295417 17.573956

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -4.709593 -2.701296 -0.526362
-0.000185 -0.557762 -4.952262
0.57744 -4.709593 -2.701296 -0.526362
-0.000185 -0.366874 -4.920491
0.71829 -4.709593 -2.701296 -0.526362
-0.000185 -0.146310 -5.804378
0.85915 -4.709593 -2.701296 -0.526362
-0.000185 -0.034269 -7.580511
1.00000 -4.709593 -2.701296 -0.526362
-0.000185 -0.132914 -11.143741

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 3.983913 80.941572 0.334482
0.004499 0.369383 218.388168
0.57744 3.983913 80.941572 0.334482
0.004499 0.229847 187.382409
0.71829 3.983913 80.941572 0.334482
0.004499 0.090880 165.703578
0.85915 3.983913 80.941572 0.334482
0.004499 0.147845 156.380328
1.00000 3.983913 80.941572 0.334482
0.004499 0.523511 150.583185

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -7.043084 -53.425369 -0.897482
-0.004297 -0.984277 -24.510905
0.57744 -7.043084 -53.425369 -0.897482
-0.004297 -0.610950 -5.664089
0.71829 -7.043084 -53.425369 -0.897482
-0.004297 -0.246879 -5.287198
0.85915 -7.043084 -53.425369 -0.897482
-0.004297 -0.068693 -7.336211
1.00000 -7.043084 -53.425369 -0.897482
-0.004297 -0.205011 -11.213069

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 3.880655 92.313192 0.667127
0.004775 0.739124 195.176812
0.57744 3.880655 92.313192 0.667127
0.004775 0.459989 167.681440
0.71829 3.880655 92.313192 0.667127
0.004775 0.181318 150.054428
0.85915 3.880655 92.313192 0.667127
0.004775 0.210849 144.899457
1.00000 3.880655 92.313192 0.667127
0.004775 0.774446 142.271722

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -9.821161 -54.404002 -1.347029
-0.003875 -1.486270 -36.197817
0.57744 -9.821161 -54.404002 -1.347029
-0.003875 -0.924378 -25.691582
0.71829 -9.821161 -54.404002 -1.347029
-0.003875 -0.370352 -32.776707
0.85915 -9.821161 -54.404002 -1.347029
-0.003875 -0.115163 -42.913730
1.00000 -9.821161 -54.404002 -1.347029
-0.003875 -0.391356 -54.288679
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3772
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 8.196115 82.276052 0.902984
0.003217 1.002063 166.200724
0.57744 8.196115 82.276052 0.902984
0.003217 0.623556 141.239443
0.71829 8.196115 82.276052 0.902984
0.003217 0.245320 123.091342
0.85915 8.196115 82.276052 0.902984
0.003217 0.239948 117.810954
1.00000 8.196115 82.276052 0.902984
0.003217 0.911102 130.311202

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -8.572238 -95.406053 -1.602643
-0.003072 -1.777500 -102.168843
0.57744 -8.572238 -95.406053 -1.602643
-0.003072 -1.107302 -72.342855
0.71829 -8.572238 -95.406053 -1.602643
-0.003072 -0.441432 -54.711191
0.85915 -8.572238 -95.406053 -1.602643
-0.003072 -0.142353 -41.499020
1.00000 -8.572238 -95.406053 -1.602643
-0.003072 -0.519180 -50.212631

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 8.129974 10.231803 0.593744
4.31E-06 0.659852 10.412809
0.57744 8.129974 10.231803 0.593744
4.31E-06 0.410749 6.431649
0.71829 8.129974 10.231803 0.593744
4.31E-06 0.161427 4.696114
0.85915 8.129974 10.231803 0.593744
4.31E-06 0.116940 4.264815
1.00000 8.129974 10.231803 0.593744
4.31E-06 0.461667 3.849427

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -0.596590 -74.301662 -0.821613
-0.001061 -0.915917 -137.313204
0.57744 -0.596590 -74.301662 -0.821613
-0.001061 -0.571276 -106.370127
0.71829 -0.596590 -74.301662 -0.821613
-0.001061 -0.226474 -77.372326
0.85915 -0.596590 -74.301662 -0.821613
-0.001061 -0.086188 -48.973675
1.00000 -0.596590 -74.301662 -0.821613
-0.001061 -0.335792 -20.598208

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 14.156780 33.516702 0.792225
0.005807 0.876830 95.913809
0.57744 14.156780 33.516702 0.792225
0.005807 0.545628 85.736372
0.71829 14.156780 33.516702 0.792225
0.005807 0.214550 90.516023
0.85915 14.156780 33.516702 0.792225
0.005807 0.205439 112.874334
1.00000 14.156780 33.516702 0.792225
0.005807 0.725135 136.060162

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -1.663508 -159.167403 -1.242031
-0.007225 -1.359506 -176.723130
0.57744 -1.663508 -159.167403 -1.242031
-0.007225 -0.842181 -113.492490
0.71829 -1.663508 -159.167403 -1.242031
-0.007225 -0.339037 -77.374696
0.85915 -1.663508 -159.167403 -1.242031
-0.007225 -0.143299 -44.406615
1.00000 -1.663508 -159.167403 -1.242031
-0.007225 -0.471504 -14.221293
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3773
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 12.202898 70.684001 0.814332
0.004360 0.901977 187.299631
0.57744 12.202898 70.684001 0.814332
0.004360 0.561628 160.633806
0.71829 12.202898 70.684001 0.814332
0.004360 0.221233 145.161546
0.85915 12.202898 70.684001 0.814332
0.004360 0.230863 142.602883
1.00000 12.202898 70.684001 0.814332
0.004360 0.849330 140.920606

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -5.487312 -132.374925 -1.476443
-0.005413 -1.628813 -157.080319
0.57744 -5.487312 -132.374925 -1.476443
-0.005413 -1.012450 -104.325837
0.71829 -5.487312 -132.374925 -1.476443
-0.005413 -0.405891 -71.458511
0.85915 -5.487312 -132.374925 -1.476443
-0.005413 -0.139114 -40.981484
1.00000 -5.487312 -132.374925 -1.476443
-0.005413 -0.476871 -13.390695

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 10.467720 78.259540 0.953357
0.004204 1.057213 164.299045
0.57744 10.467720 78.259540 0.953357
0.004204 0.658058 138.448659
0.71829 10.467720 78.259540 0.953357
0.004204 0.259079 123.615895
0.85915 10.467720 78.259540 0.953357
0.004204 0.256252 120.999065
1.00000 10.467720 78.259540 0.953357
0.004204 0.958580 121.102301

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -7.768982 -114.340182 -1.676262
-0.004529 -1.854561 -137.603600
0.57744 -7.768982 -114.340182 -1.676262
-0.004529 -1.154107 -97.440182
0.71829 -7.768982 -114.340182 -1.676262
-0.004529 -0.461386 -75.271065
0.85915 -7.768982 -114.340182 -1.676262
-0.004529 -0.155658 -56.209588
1.00000 -7.768982 -114.340182 -1.676262
-0.004529 -0.552480 -40.553983

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 15.320130 94.096869 0.718592
0.005770 0.799608 210.634591
0.57744 15.320130 94.096869 0.718592
0.005770 0.498228 176.805771
0.71829 15.320130 94.096869 0.718592
0.005770 0.196789 153.394038
0.85915 15.320130 94.096869 0.718592
0.005770 0.153390 144.272132
1.00000 15.320130 94.096869 0.718592
0.005770 0.556892 139.851412

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -11.630594 -164.277627 -0.963214
-0.007277 -1.059411 -178.277370
0.57744 -11.630594 -164.277627 -0.963214
-0.007277 -0.656074 -117.781538
0.71829 -11.630594 -164.277627 -0.963214
-0.007277 -0.263396 -77.462314
0.85915 -11.630594 -164.277627 -0.963214
-0.007277 -0.115301 -58.768132
1.00000 -11.630594 -164.277627 -0.963214
-0.007277 -0.406321 -71.678636
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3774
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 14.156780 94.815455 0.953357
0.005807 1.057213 218.388168
0.57744 14.156780 94.815455 0.953357
0.005807 0.658058 187.382409
0.71829 14.156780 94.815455 0.953357
0.005807 0.259079 165.703578
0.85915 14.156780 94.815455 0.953357
0.005807 0.256252 156.380328
1.00000 14.156780 94.815455 0.953357
0.005807 0.958580 150.583185

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -10.904557 -159.167403 -1.676262
-0.007225 -1.854561 -176.723130
0.57744 -10.904557 -159.167403 -1.676262
-0.007225 -1.154107 -113.492490
0.71829 -10.904557 -159.167403 -1.676262
-0.007225 -0.461386 -77.374696
0.85915 -10.904557 -159.167403 -1.676262
-0.007225 -0.155658 -69.103575
1.00000 -10.904557 -159.167403 -1.676262
-0.007225 -0.552480 -85.433267

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 15.320130 94.815455 0.953357
0.005807 1.057213 218.388168
0.57744 15.320130 94.815455 0.953357
0.005807 0.658058 187.382409
0.71829 15.320130 94.815455 0.953357
0.005807 0.259079 165.703578
0.85915 15.320130 94.815455 0.953357
0.005807 0.256252 156.380328
1.00000 15.320130 94.815455 0.953357
0.005807 0.958580 150.583185

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -11.630594 -164.277627 -1.676262
-0.007277 -1.854561 -178.277370
0.57744 -11.630594 -164.277627 -1.676262
-0.007277 -1.154107 -117.781538
0.71829 -11.630594 -164.277627 -1.676262
-0.007277 -0.461386 -77.462314
0.85915 -11.630594 -164.277627 -1.676262
-0.007277 -0.155658 -69.103575
1.00000 -11.630594 -164.277627 -1.676262
-0.007277 -0.552480 -85.433267

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43659 15.320130 94.815455 0.953357
0.005807 1.057213 218.388168
0.57744 15.320130 94.815455 0.953357
0.005807 0.658058 187.382409
0.71829 15.320130 94.815455 0.953357
0.005807 0.259079 165.703578
0.85915 15.320130 94.815455 0.953357
0.005807 0.256252 156.380328
1.00000 15.320130 94.815455 0.953357
0.005807 0.958580 150.583185

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43659 -11.630594 -164.277627 -1.676262
-0.007277 -1.854561 -178.277370
0.57744 -11.630594 -164.277627 -1.676262
-0.007277 -1.154107 -117.781538
0.71829 -11.630594 -164.277627 -1.676262
-0.007277 -0.461386 -77.462314
0.85915 -11.630594 -164.277627 -1.676262
-0.007277 -0.155658 -69.103575
1.00000 -11.630594 -164.277627 -1.676262
-0.007277 -0.552480 -85.433267
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3775
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 361 ========== LENGTH = 2.977543

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.364729 17.129101 0.358798
0.000635 0.200827 7.538903
0.14085 0.364729 17.129101 0.358798
0.000635 0.050254 10.309508
0.28170 0.364729 17.129101 0.358798
0.000635 0.102265 13.113716
0.42255 0.364729 17.129101 0.358798
0.000635 0.255932 15.950245
0.56340 0.364729 17.129101 0.358798
0.000635 0.409606 18.811063

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.295315 -6.865070 -0.366431
-6.92E-06 -0.205100 -51.183913
0.14085 -4.295315 -6.865070 -0.366431
-6.92E-06 -0.051404 -58.139713
0.28170 -4.295315 -6.865070 -0.366431
-6.92E-06 -0.100115 -65.159494
0.42255 -4.295315 -6.865070 -0.366431
-6.92E-06 -0.250601 -72.190844
0.56340 -4.295315 -6.865070 -0.366431
-6.92E-06 -0.401075 -79.257058

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.734202 43.498779 0.573001
0.001308 0.321131 14.471163
0.14085 0.734202 43.498779 0.573001
0.001308 0.081236 16.875425
0.28170 0.734202 43.498779 0.573001
0.001308 0.170073 19.672634
0.42255 0.734202 43.498779 0.573001
0.001308 0.422857 23.049095
0.56340 0.734202 43.498779 0.573001
0.001308 0.676278 26.892228

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.384039 -9.944440 -0.604387
-0.000188 -0.337658 -71.706665
0.14085 -8.384039 -9.944440 -0.604387
-0.000188 -0.085005 -87.009978
0.28170 -8.384039 -9.944440 -0.604387
-0.000188 -0.159565 -102.752678
0.42255 -8.384039 -9.944440 -0.604387
-0.000188 -0.399900 -118.905311
0.56340 -8.384039 -9.944440 -0.604387
-0.000188 -0.640206 -136.179452

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.871674 93.105785 0.582703
0.001425 0.326958 61.988129
0.14085 0.871674 93.105785 0.582703
0.001425 0.082473 45.756700
0.28170 0.871674 93.105785 0.582703
0.001425 0.224494 44.026352
0.42255 0.871674 93.105785 0.582703
0.001425 0.556802 45.657387
0.56340 0.871674 93.105785 0.582703
0.001425 0.889198 48.257032

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.479622 -9.641962 -0.792733
-0.000258 -0.440719 -63.702233
0.14085 -11.479622 -9.641962 -0.792733
-0.000258 -0.109056 -74.391361
0.28170 -11.479622 -9.641962 -0.792733
-0.000258 -0.161753 -86.771425
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3776
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42255 -11.479622 -9.641962 -0.792733
-0.000258 -0.406166 -123.054622
0.56340 -11.479622 -9.641962 -0.792733
-0.000258 -0.650541 -161.817043

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.058836 117.398073 0.661092
0.004670 0.372931 133.437269
0.14085 5.058836 117.398073 0.661092
0.004670 0.105469 122.133158
0.28170 5.058836 117.398073 0.661092
0.004670 0.253222 122.555642
0.42255 5.058836 117.398073 0.661092
0.004670 0.622100 134.852000
0.56340 5.058836 117.398073 0.661092
0.004670 1.001750 155.554329

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.778398 -55.515615 -0.907486
-0.004032 -0.520915 -55.799218
0.14085 -11.778398 -55.515615 -0.907486
-0.004032 -0.141646 -66.003664
0.28170 -11.778398 -55.515615 -0.907486
-0.004032 -0.183738 -77.775317
0.42255 -11.778398 -55.515615 -0.907486
-0.004032 -0.461033 -109.247446
0.56340 -11.778398 -55.515615 -0.907486
-0.004032 -0.738284 -150.308687

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.537681 38.625219 0.195049
0.000554 0.109651 14.846936
0.14085 0.537681 38.625219 0.195049
0.000554 0.027812 11.247813
0.28170 0.537681 38.625219 0.195049
0.000554 0.079004 10.675427
0.42255 0.537681 38.625219 0.195049
0.000554 0.194015 10.835966
0.56340 0.537681 38.625219 0.195049
0.000554 0.309149 11.215088

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.924059 -2.325667 -0.274578
-8.61E-05 -0.151504 -11.295007
0.14085 -4.924059 -2.325667 -0.274578
-8.01E-05 -0.037163 -15.190622
0.28170 -4.924059 -2.325667 -0.274578
-8.01E-05 -0.053904 -29.136329
0.42255 -4.924059 -2.325667 -0.274578
-8.01E-05 -0.135717 -44.547832
0.56340 -4.924059 -2.325667 -0.274578
-8.01E-05 -0.217509 -60.524912

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.326533 133.285842 0.272647
0.005600 0.156438 140.103386
0.14085 1.326533 133.285842 0.272647
0.005600 0.055659 98.108992
0.28170 1.326533 133.285842 0.272647
0.005600 0.161971 71.608137
0.42255 1.326533 133.285842 0.272647
0.005600 0.387372 61.086705
0.56340 1.326533 133.285842 0.272647
0.005600 0.627541 61.943605

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.235165 -10.337456 -0.575718
-0.005132 -0.338688 -11.599302
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3777
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14085 -10.235165 -10.337456 -0.575718
-0.005132 -0.099107 -15.353162
0.28170 -10.235165 -10.337456 -0.575718
-0.005132 -0.075214 -21.206655
0.42255 -10.235165 -10.337456 -0.575718
-0.005132 -0.189602 -53.141340
0.56340 -10.235165 -10.337456 -0.575718
-0.005132 -0.303941 -98.013859

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.513426 135.000605 0.516254
0.005549 0.292478 130.850109
0.14085 1.513426 135.000605 0.516254
0.005549 0.088145 95.061471
0.28170 1.513426 135.000605 0.516254
0.005549 0.222669 73.171751
0.42255 1.513426 135.000605 0.516254
0.005549 0.541550 65.674171
0.56340 1.513426 135.000605 0.516254
0.005549 0.873725 68.466027

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.669839 -14.118336 -0.794810
-0.004637 -0.459992 -47.226329
0.14085 -12.669839 -14.118336 -0.794810
-0.004637 -0.128195 -56.608835
0.28170 -12.669839 -14.118336 -0.794810
-0.004637 -0.143202 -68.090993
0.42255 -12.669839 -14.118336 -0.794810
-0.004637 -0.359764 -103.250960
0.56340 -12.669839 -14.118336 -0.794810
-0.004637 -0.576268 -149.858655

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.425909 109.265240 0.676769
0.003864 0.381448 118.001195
0.14085 7.425909 109.265240 0.676769
0.003864 0.105581 117.178516
0.28170 7.425909 109.265240 0.676769
0.003864 0.251369 128.529695
0.42255 7.425909 109.265240 0.676769
0.003864 0.618230 150.045619
0.56340 7.425909 109.265240 0.676769
0.003864 0.993822 178.488406

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.617880 -73.368443 -0.897421
-0.003677 -0.512687 -43.556939
0.14085 -10.617880 -73.368443 -0.897421
-0.003677 -0.137992 -53.037001
0.28170 -10.617880 -73.368443 -0.897421
-0.003677 -0.187924 -64.163856
0.42255 -10.617880 -73.368443 -0.897421
-0.003677 -0.471806 -95.288876
0.56340 -10.617880 -73.368443 -0.897421
-0.003677 -0.755626 -134.466671

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.093664 8.641954 0.427053
0.000143 0.239451 3.166284
0.14085 9.093664 8.641954 0.427053
0.000143 0.060368 22.158886
0.28170 9.093664 8.641954 0.427053
0.000143 0.119430 53.781878
0.42255 9.093664 8.641954 0.427053

```
0.000143    0.299513    85.630291
0.56340     9.093664    8.641954     0.427053
0.000143    0.479605    117.556164
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING              LOAD                >
                                 3778

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -0.725766   -76.272465    -0.429425
-0.001084    -0.240775    -11.516977
0.14085    -0.725766   -76.272465    -0.429425
-0.001084    -0.060664    -10.731655
0.28170    -0.725766   -76.272465    -0.429425
-0.001084    -0.118739    -13.526719
0.42255    -0.725766   -76.272465    -0.429425
-0.001084    -0.297859    -16.518942
0.56340    -0.725766   -76.272465    -0.429425
-0.001084    -0.476959    -19.938939

COMB DB-G3-2 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000    11.501177    91.226518     0.549788
 0.005950     0.312044    123.588535
0.14085    11.501177    91.226518     0.549788
 0.005950     0.097991    127.097874
0.28170    11.501177    91.226518     0.549788
 0.005950     0.194430    136.891790
0.42255    11.501177    91.226518     0.549788
 0.005950     0.471494    163.799683
0.56340    11.501177    91.226518     0.549788
 0.005950     0.766441    203.814393

COMB DB-G3-2 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -5.155589   -102.601493    -0.706827
-0.007173    -0.419737    -9.968667
0.14085    -5.155589   -102.601493    -0.706827
-0.007173    -0.124485    -13.936741
0.28170    -5.155589   -102.601493    -0.706827
-0.007173    -0.152827    -17.991832
0.42255    -5.155589   -102.601493    -0.706827
-0.007173    -0.383367    -24.295927
0.56340    -5.155589   -102.601493    -0.706827
-0.007173    -0.613935    -47.987464

COMB DB-G3-3 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000    10.561497   116.032927     0.605240
 0.004573     0.342318    121.337456
0.14085    10.561497   116.032927     0.605240
 0.004573     0.099811    119.901408
0.28170    10.561497   116.032927     0.605240
 0.004573     0.242949    132.695948
0.42255    10.561497   116.032927     0.605240
 0.004573     0.594338    159.021025
0.56340    10.561497   116.032927     0.605240
 0.004573     0.958015    194.939706

COMB DB-G3-3 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -8.460553    -92.773943    -0.869726
-0.005344    -0.501340    -10.976409
0.14085    -8.460553    -92.773943    -0.869726
-0.005344    -0.137690    -14.305739
0.28170    -8.460553    -92.773943    -0.869726
-0.005344    -0.167808    -19.988674
0.42255    -8.460553    -92.773943    -0.869726
-0.005344    -0.421695    -49.266965
0.56340    -8.460553    -92.773943    -0.869726
-0.005344    -0.675496    -88.844499

COMB DB-G3-4 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     9.159506   112.358003     0.712198
 0.004207     0.401732    103.744456
0.14085     9.159506   112.358003     0.712198
 0.004207     0.112358    103.929539
0.28170     9.159506   112.358003     0.712198
 0.004207     0.261955    116.040232
0.42255     9.159506   112.358003     0.712198
 0.004207     0.638689    139.427490
0.56340     9.159506   112.358003     0.712198
 0.004207     1.035414    170.741494
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING              LOAD                >
                                 3779

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000   -10.125064   -80.648655    -0.936402
-0.004428    -0.535746    -34.998257
0.14085   -10.125064   -80.648655    -0.936402
-0.004428    -0.144316    -43.922945
0.28170   -10.125064   -80.648655    -0.936402
-0.004428    -0.197668    -54.476512
0.42255   -10.125064   -80.648655    -0.936402
-0.004428    -0.496405    -84.771004
0.56340   -10.125064   -80.648655    -0.936402
-0.004428    -0.795084   -124.175980

COMB DL-G1-1 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     0.463435    22.049548     0.487714
 0.000623     0.272868    10.151695
0.14085     0.463435    22.049548     0.487714
 0.000623     0.068112    13.719489
0.28170     0.463435    22.049548     0.487714
 0.000623     0.182939    17.329197
0.42255     0.463435    22.049548     0.487714
 0.000623     0.456974    20.959610
0.56340     0.463435    22.049548     0.487714
 0.000623     0.730481    24.599972

COMB DL-G1-1 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -4.208175    -8.725511    -0.652026
-4.05E-06    -0.362870    -63.436479
0.14085    -4.208175    -8.725511    -0.652026
-4.05E-06    -0.089291    -72.472808
0.28170    -4.208175    -8.725511    -0.652026
-4.05E-06    -0.135395    -81.569837
0.42255    -4.208175    -8.725511    -0.652026
-4.05E-06    -0.340071    -90.720790
0.56340    -4.208175    -8.725511    -0.652026
-4.05E-06    -0.544714    -99.899590

COMB DL-G1-2 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     0.825185    50.038224     0.757268
 0.001197     0.424022    16.892656
0.14085     0.825185    50.038224     0.757268
 0.001197     0.106581    20.461706
0.28170     0.825185    50.038224     0.757268
 0.001197     0.324750    24.741308
0.42255     0.825185    50.038224     0.757268
 0.001197     0.810275    29.437913
0.56340     0.825185    50.038224     0.757268
 0.001197     1.295981    34.393366

COMB DL-G1-2 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -8.262566   -12.398651    -1.158008
-0.000114    -0.645912    -85.477314
0.14085    -8.262566   -12.398651    -1.158008
-0.000114    -0.160891   -103.591200
0.28170    -8.262566   -12.398651    -1.158008
-0.000114    -0.209931   -122.369951
0.42255    -8.262566   -12.398651    -1.158008
-0.000114    -0.527703   -142.119622
0.56340    -8.262566   -12.398651    -1.158008
-0.000114    -0.845502   -162.563224

COMB DL-G1-3 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     1.002998    93.908120     0.744949
 0.001305     0.417107    79.614187
0.14085     1.002998    93.908120     0.744949
 0.001305     0.105470    63.963172
0.28170     1.002998    93.908120     0.744949
 0.001305     0.382844    54.740518
0.42255     1.002998    93.908120     0.744949
 0.001305     0.954651    53.675411
0.56340     1.002998    93.908120     0.744949
 0.001305     1.525902    55.809405
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING              LOAD                >
                                 3780

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000   -10.779392   -12.428133    -1.362496
-0.000230    -0.759765    -75.859555
0.14085   -10.779392   -12.428133    -1.362496
-0.000230    -0.188647    -89.793856
0.28170   -10.779392   -12.428133    -1.362496
-0.000230    -0.206357    -105.845605
0.42255   -10.779392   -12.428133    -1.362496
-0.000230    -0.518204    -139.518932
0.56340   -10.779392   -12.428133    -1.362496
-0.000230    -0.831060    -176.159101

COMB DL-G1-4 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     4.868611    110.630681     0.874900
 0.003779     0.501145    145.712644
0.14085     4.868611    110.630681     0.874900
 0.003779     0.136813    138.534914
0.28170     4.868611    110.630681     0.874900
 0.003779     0.431688    136.658059
0.42255     4.868611    110.630681     0.874900
 0.003779     1.073749    148.068719
0.56340     4.868611    110.630681     0.874900
 0.003779     1.721222    167.186520

COMB DL-G1-4 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000   -10.762850   -56.427327    -1.549053
-0.003178    -0.877779    -66.229367
0.14085   -10.762850   -56.427327    -1.549053
-0.003178    -0.229052    -79.393163
0.28170   -10.762850   -56.427327    -1.549053
-0.003178    -0.241901    -94.514874
0.42255   -10.762850   -56.427327    -1.549053
-0.003178    -0.608018   -124.009768
0.56340   -10.762850   -56.427327    -1.549053
-0.003178    -0.974685   -164.130635

COMB DL-G2-1 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     0.477233    36.927597     0.236656
 0.000490     0.132568    17.566049
0.14085     0.477233    36.927597     0.236656
 0.000490     0.033843    11.218207
0.28170     0.477233    36.927597     0.236656
 0.000490     0.148078     9.995432
0.42255     0.477233    36.927597     0.236656
 0.000490     0.392210    10.175175
0.56340     0.477233    36.927597     0.236656
 0.000490     0.590633    10.713239

COMB DL-G2-1 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -4.682120    -2.624957    -0.527765
-6.52E-05    -0.294877    -11.152644
0.14085    -4.682120    -2.624957    -0.527765
-6.52E-05    -0.074348    -16.237463
0.28170    -4.682120    -2.624957    -0.527765
-6.52E-05    -0.065293    -28.854976
0.42255    -4.682120    -2.624957    -0.527765
-6.52E-05    -0.164297    -43.329838
0.56340    -4.682120    -2.624957    -0.527765
-6.52E-05    -0.263713    -58.248629

COMB DL-G2-2 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     1.375048    120.065027     0.333523
 0.004793     0.203913    150.588073
0.14085     1.375048    120.065027     0.333523
 0.004793     0.068226    111.988494
0.28170     1.375048    120.065027     0.333523
 0.004793     0.248365     80.406454
0.42255     1.375048    120.065027     0.333523
 0.004793     0.611599     67.829928
0.56340     1.375048    120.065027     0.333523
 0.004793     0.983138     66.178784
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING              LOAD                >
                                 3781

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -9.230003   -11.034038    -0.894474
-0.004413    -0.519104    -11.215498
0.14085    -9.230003   -11.034038    -0.894474
-0.004413    -0.145276    -15.504878
0.28170    -9.230003   -11.034038    -0.894474
-0.004413    -0.091502    -23.278315
0.42255    -9.230003   -11.034038    -0.894474
-0.004413    -0.229804    -49.364344
0.56340    -9.230003   -11.034038    -0.894474
-0.004413    -0.368686    -90.865464

COMB DL-G2-3 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     1.527748    127.582087     0.660740
 0.004828     0.385168    142.286786
0.14085     1.527748    127.582087     0.660740
 0.004828     0.111629    109.902218
0.28170     1.527748    127.582087     0.660740
 0.004828     0.372092    83.896123
0.42255     1.527748    127.582087     0.660740
 0.004828     0.920738    75.136301
0.56340     1.527748    127.582087     0.660740
 0.004828     1.476711    76.197381

COMB DL-G2-3 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000   -11.771222   -15.987351    -1.333808
-0.003994    -0.762081    -54.311064
0.14085   -11.771222   -15.987351    -1.333808
-0.003994    -0.204115    -65.975309
0.28170   -11.771222   -15.987351    -1.333808
-0.003994    -0.182561    -81.091809
0.42255   -11.771222   -15.987351    -1.333808
-0.003994    -0.458309   -112.561173
0.56340   -11.771222   -15.987351    -1.333808
-0.003994    -0.734739   -157.955909

COMB DL-G2-4 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     6.843755    103.359476     0.891182
 0.003163     0.506314    130.284320
0.14085     6.843755    103.359476     0.891182
 0.003163     0.136805    132.099085
0.28170     6.843755    103.359476     0.891182
 0.003163     0.443726    139.379490
0.42255     6.843755    103.359476     0.891182
 0.003163     1.104808    159.064971
0.56340     6.843755    103.359476     0.891182
 0.003163     1.770588    185.439349

COMB DL-G2-4 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -9.714215   -72.841577    -1.592436
-0.002991    -0.901054    -50.222338
0.14085    -9.714215   -72.841577    -1.592436
-0.002991    -0.234450    -62.034530
0.28170    -9.714215   -72.841577    -1.592436
-0.002991    -0.246344    -76.595559
0.42255    -9.714215   -72.841577    -1.592436
-0.002991    -0.619531   -105.226187
0.56340    -9.714215   -72.841577    -1.592436
-0.002991    -0.992871   -142.967165

COMB DL-G3-1 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     8.188724    10.272169     0.582719
 0.000135     0.326628     3.845028
0.14085     8.188724    10.272169     0.582719
 0.000135     0.082273    21.958876
0.28170     8.188724    10.272169     0.582719
 0.000135     0.228063    52.303750
0.42255     8.188724    10.272169     0.582719
 0.000135     0.573726    83.049557
0.56340     8.188724    10.272169     0.582719
 0.000135     0.919303    114.078202
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING              LOAD                >
                                 3782

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -0.582690   -74.774995    -0.823818
-0.001002    -0.461766    -20.628106
0.14085    -0.582690   -74.774995    -0.823818
-0.001002    -0.116381    -14.648086
0.28170    -0.582690   -74.774995    -0.823818
-0.001002    -0.161487    -17.737719
0.42255    -0.582690   -74.774995    -0.823818
-0.001002    -0.406130    -21.334713
0.56340    -0.582690   -74.774995    -0.823818
-0.001002    -0.650613    -25.374962

COMB DL-G3-2 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     10.487109    89.941852     0.779328
 0.005920     0.461194    136.092916
0.14085     10.487109    89.941852     0.779328
 0.005920     0.138108    139.007264
0.28170     10.487109    89.941852     0.779328
 0.005920     0.341018    147.239587
0.42255     10.487109    89.941852     0.779328
 0.005920     0.544028    170.951576
0.56340     10.487109    89.941852     0.779328
 0.005920     1.362073    207.039016

COMB DL-G3-2 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -4.837998   -99.666145    -1.242919
-0.007057    -0.723433    -14.226562
0.14085    -4.837998   -99.666145    -1.242919
-0.007057    -0.203616    -17.298156
0.28170    -4.837998   -99.666145    -1.242919
-0.007057    -0.215410    -22.198589
0.42255    -4.837998   -99.666145    -1.242919
-0.007057    -0.540991    -29.724772
0.56340    -4.837998   -99.666145    -1.242919
-0.007057    -0.866678    -57.664905

COMB DL-G3-3 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     9.594095    111.013257     0.802436
 0.004669     0.467180    140.922428
0.14085     9.594095    111.013257     0.802436
 0.004669     0.134607    136.358395
0.28170     9.594095    111.013257     0.802436
 0.004669     0.408264    139.513639
0.42255     9.594095    111.013257     0.802436
 0.004669     1.014662    160.900487
0.56340     9.594095    111.013257     0.802436
 0.004669     1.629925    192.746726

COMB DL-G3-3 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -7.729939   -89.622795    -1.475207
-0.005413    -0.845518    -13.400311
0.14085    -7.729939   -89.622795    -1.475207
-0.005413    -0.227855    -16.525166
0.28170    -7.729939   -89.622795    -1.475207
-0.005413    -0.221551    -24.817234
0.42255    -7.729939   -89.622795    -1.475207
-0.005413    -0.556831    -47.998755
0.56340    -7.729939   -89.622795    -1.475207
-0.005413    -0.892390    -86.170262

COMB DL-G3-4 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     8.311863    111.534468     0.940170
 0.004281     0.541016    121.112348
0.14085     8.311863    111.534468     0.940170
 0.004281     0.149986    119.187555
0.28170     8.311863    111.534468     0.940170
 0.004281     0.464317    123.605957
0.42255     8.311863    111.534468     0.940170
 0.004281     1.155423    143.145249
0.56340     8.311863    111.534468     0.940170
 0.004281     1.853855    171.395403
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING              LOAD                >
                                 3783

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -9.608859    -78.824919    -1.672134
-0.004501    -0.951876    -40.578955
0.14085    -9.608859    -78.824919    -1.672134
-0.004501    -0.251754    -50.693544
0.28170    -9.608859    -78.824919    -1.672134
-0.004501    -0.260085    -64.931840
0.42255    -9.608859    -78.824919    -1.672134
-0.004501    -0.653277    -91.902146
0.56340    -9.608859    -78.824919    -1.672134
-0.004501    -1.046812   -131.513785

COMB      DB ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000    11.501177   135.000605     0.712198
 0.005950     0.401732    140.103386
0.14085    11.501177   135.000605     0.712198
 0.005950     0.112358    127.097874
0.28170    11.501177   135.000605     0.712198
 0.005950     0.261955    136.891790
0.42255    11.501177   135.000605     0.712198
 0.005950     0.643589    163.799683
0.56340    11.501177   135.000605     0.712198
 0.005950     1.035414    203.814393

COMB      DB ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000   -12.669839   -102.601493    -0.936402
-0.007173    -0.535746    -71.706665
0.14085   -12.669839   -102.601493    -0.936402
-0.007173    -0.144316    -87.009978
0.28170   -12.669839   -102.601493    -0.936402
-0.007173    -0.197668   -102.752678
0.42255   -12.669839   -102.601493    -0.936402
-0.007173    -0.496405   -123.954622
0.56340   -12.669839   -102.601493    -0.936402
-0.007173    -0.795084   -161.817043

COMB      DL ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     10.487109    127.582087     0.940170
 0.005920     0.541016    150.588073
0.14085     10.487109    127.582087     0.940170
 0.005920     0.149986    139.007264
0.28170     10.487109    127.582087     0.940170
 0.005920     0.464317    147.239587
0.42255     10.487109    127.582087     0.940170
 0.005920     1.155423    170.951576
0.56340     10.487109    127.582087     0.940170
 0.005920     1.853855    207.039016

COMB      DL ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000    -11.771222    -99.666145    -1.672134
-0.007057    -0.951876    -85.477314
0.14085    -11.771222    -99.666145    -1.672134
-0.007057    -0.251754   -103.591200
0.28170    -11.771222    -99.666145    -1.672134
-0.007057    -0.260085   -122.369951
0.42255    -11.771222    -99.666145    -1.672134
-0.007057    -0.653277    -142.119622
0.56340    -11.771222    -99.666145    -1.672134
-0.007057    -1.046812   -176.159101

COMB      CAR ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000     11.501177    135.000605     0.940170
 0.005950     0.541016     150.588073
0.14085     11.501177    135.000605     0.940170
 0.005950     0.149986     139.007264
0.28170     11.501177    135.000605     0.940170
 0.005950     0.464317     147.239587
0.42255     11.501177    135.000605     0.940170
 0.005950     1.155423     170.951576
0.56340     11.501177    135.000605     0.940170
 0.005950     1.853855     207.039016
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING              LOAD                >
                                 3784

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000   -12.669839   -102.601493    -1.672134
-0.007173    -0.951876    -85.477314
0.14085   -12.669839   -102.601493    -1.672134
-0.007173    -0.251754   -103.591200
0.28170   -12.669839   -102.601493    -1.672134
-0.007173    -0.260085   -122.369951
0.42255   -12.669839   -102.601493    -1.672134
-0.007173    -0.653277   -142.119622
0.56340   -12.669839   -102.601493    -1.672134
-0.007173    -1.046812   -176.159101

COMB    DESIGN ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.00000    11.501177   135.000605     0.940170
 0.005950     0.541016    150.588073
0.14085    11.501177   135.000605     0.940170
 0.005950     0.149986    139.007264
0.28170    11.501177   135.000605     0.940170
 0.005950     0.464317    147.239587
0.42255    11.501177   135.000605     0.940170
 0.005950     1.155423    170.951576
0.56340    11.501177   135.000605     0.940170
 0.005950     1.853855    207.039016

COMB    DESIGN ------------------- MIN

REL DIST          P              V2              V3
        T          M2              M3
0.00000   -12.669839   -102.601493    -1.672134
-0.007173    -0.951876    -85.477314
0.14085   -12.669839   -102.601493    -1.672134
-0.007173    -0.251754   -103.591200
0.28170   -12.669839   -102.601493    -1.672134
-0.007173    -0.260085   -122.369951
0.42255   -12.669839   -102.601493    -1.672134
-0.007173    -0.653277   -142.119622
0.56340   -12.669839   -102.601493    -1.672134
-0.007173    -1.046812   -176.159101

ELEM      362 ================== LENGTH
=     2.977005

COMB DB-G1-1 ------------------- MAX

REL DIST          P              V2              V3
        T          M2              M3
0.43668     0.135311    21.797086     0.377581
 0.000640     0.419465     1.633067
0.57751     0.135311    21.797086     0.377581
 0.000640     0.261164     1.550081
0.71834     0.135311    21.797086     0.377581
 0.000640     0.102862     2.654071
0.85917     0.135311    21.797086     0.377581
 0.000640     0.055226     4.002875
1.00000     0.135311    21.797086     0.377581
 0.000640     0.212974     5.515348

COMB DB-G1-1 ------------------- MIN
```

REL DIST P V2 V3
T M2 M3
0.43668 -4.973861 -4.142161 -0.376007
-1.62E-05 -0.417592 -21.792498
0.57751 -4.973861 -4.142161 -0.376007
-1.62E-05 -0.259952 -30.452251
0.71834 -4.973861 -4.142161 -0.376007
-1.62E-05 -0.102320 -39.138010
0.85917 -4.973861 -4.142161 -0.376007
-1.62E-05 -0.055311 -47.845776
1.00000 -4.973861 -4.142161 -0.376007
-1.62E-05 -0.213764 -56.658969

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 1.009063 49.105800 0.600476
0.001344 0.667398 32.616680
0.57751 1.009063 49.105800 0.600476
0.001344 0.415646 23.387364
0.71834 1.009063 49.105800 0.600476
0.001344 0.163844 16.725256
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3785

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85917 1.009063 49.105800 0.600476
0.001344 0.088496 11.585156
1.00000 1.009063 49.105800 0.600476
0.001344 0.340133 11.967376

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -8.826546 -7.788477 -0.599878
-0.000593 -0.665893 -24.582496
0.57751 -8.826546 -7.788477 -0.599878
-0.000593 -0.414397 -34.710337
0.71834 -8.826546 -7.788477 -0.599878
-0.000593 -0.163512 -47.148220
0.85917 -8.826546 -7.788477 -0.599878
-0.000593 -0.088448 -61.636798
1.00000 -8.826546 -7.788477 -0.599878
-0.000593 -0.340251 -77.536064

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 1.097870 100.289711 0.607813
0.001026 0.676071 179.818432
0.57751 1.097870 100.289711 0.607813
0.001026 0.421244 148.102058
0.71834 1.097870 100.289711 0.607813
0.001026 0.166359 118.182516
0.85917 1.097870 100.289711 0.607813
0.001026 0.099082 89.040980
1.00000 1.097870 100.289711 0.607813
0.001026 0.382569 63.090946

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -11.851245 -5.786927 -0.675756
-0.000261 -0.750632 -21.283774
0.57751 -11.851245 -5.786927 -0.675756
-0.000261 -0.467317 -31.341893
0.71834 -11.851245 -5.786927 -0.675756
-0.000261 -0.183991 -42.569386
0.85917 -11.851245 -5.786927 -0.675756
-0.000261 -0.088225 -55.181133
1.00000 -11.851245 -5.786927 -0.675756
-0.000261 -0.343257 -68.657227

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 7.686720 87.165124 0.681728
0.004532 0.758076 166.117508
0.57751 7.686720 87.165124 0.681728
0.004532 0.476758 141.384922
0.71834 7.686720 87.165124 0.681728
0.004532 0.186342 125.942974
0.85917 7.686720 87.165124 0.681728
0.004532 0.125861 123.910898
1.00000 7.686720 87.165124 0.681728
0.004532 0.443875 136.685804

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -10.259975 -91.702598 -0.759143
-0.004111 -0.829897 -80.177546
0.57751 -10.259975 -91.702598 -0.759143
-0.004111 -0.511630 -67.187941
0.71834 -10.259975 -91.702598 -0.759143
-0.004111 -0.206253 -47.453760
0.85917 -10.259975 -91.702598 -0.759143
-0.004111 -0.113740 -47.282185
1.00000 -10.259975 -91.702598 -0.759143
-0.004111 -0.397739 -59.193933

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 0.982115 40.880188 0.201454
0.000516 0.224308 74.404842
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3786

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57751 0.982115 40.880188 0.201454
0.000516 0.139852 57.380566
0.71834 0.982115 40.880188 0.201454
0.000516 0.055369 41.166554
0.85917 0.982115 40.880188 0.201454
0.000516 0.030188 25.717936
1.00000 0.982115 40.880188 0.201454
0.000516 0.116417 15.078909

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -4.678031 -1.359348 -0.205518
-0.000320 -0.228252 -2.932417
0.57751 -4.678031 -1.359348 -0.205518
-0.000320 -0.142077 -2.700422
0.71834 -4.678031 -1.359348 -0.205518
-0.000320 -0.055901 -3.886850
0.85917 -4.678031 -1.359348 -0.205518
-0.000320 -0.029047 -6.884841
1.00000 -4.678031 -1.359348 -0.205518
-0.000320 -0.113469 -10.978789

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 5.069166 87.714281 0.278304
0.005152 0.309998 216.748957
0.57751 5.069166 87.714281 0.278304
0.005152 0.193319 182.868292
0.71834 5.069166 87.714281 0.278304
0.005152 0.076512 159.075798
0.85917 5.069166 87.714281 0.278304
0.005152 0.076675 150.107103
1.00000 5.069166 87.714281 0.278304
0.005152 0.238342 144.779896

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -7.481791 -61.266377 -0.386847
-0.005116 -0.411326 -21.094225
0.57751 -7.481791 -61.266377 -0.386847
-0.005116 -0.249149 -3.156274
0.71834 -7.481791 -61.266377 -0.386847
-0.005116 -0.104620 -3.368718
0.85917 -7.481791 -61.266377 -0.386847
-0.005116 -0.059872 -6.575599
1.00000 -7.481791 -61.266377 -0.386847
-0.005116 -0.173891 -10.810587

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 4.821895 97.291375 0.535103
0.005150 0.595269 194.080225
0.57751 4.821895 97.291375 0.535103
0.005150 0.370952 163.830846
0.71834 4.821895 97.291375 0.535103
0.005150 0.146415 143.918467
0.85917 4.821895 97.291375 0.535103
0.005150 0.110667 137.559994
1.00000 4.821895 97.291375 0.535103
0.005150 0.375017 133.866497

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -10.484557 -58.121469 -0.631561
-0.004747 -0.684949 -27.696839
0.57751 -10.484557 -58.121469 -0.631561
-0.004747 -0.420176 -19.728632
0.71834 -10.484557 -58.121469 -0.631561
-0.004747 -0.171320 -27.911344
0.85917 -10.484557 -58.121469 -0.631561
-0.004747 -0.095588 -38.492204
1.00000 -10.484557 -58.121469 -0.631561
-0.004747 -0.317617 -49.816745
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3787

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 9.793872 83.526327 0.692083
0.003812 0.769722 163.420097
0.57751 9.793872 83.526327 0.692083
0.003812 0.479569 137.497186
0.71834 9.793872 83.526327 0.692083
0.003812 0.189280 119.017375
0.85917 9.793872 83.526327 0.692083
0.003812 0.123727 111.397976
1.00000 9.793872 83.526327 0.692083
0.003812 0.443767 122.194016

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -9.063616 -104.455923 -0.763959
-0.003761 -0.837922 -107.432482
0.57751 -9.063616 -104.455923 -0.763959
-0.003761 -0.517640 -76.214295
0.71834 -9.063616 -104.455923 -0.763959
-0.003761 -0.207792 -55.764168
0.85917 -9.063616 -104.455923 -0.763959
-0.003761 -0.112418 -37.129191
1.00000 -9.063616 -104.455923 -0.763959
-0.003761 -0.401076 -44.583655

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 9.364174 5.332541 0.426275
0.000333 0.473978 6.286271
0.57751 9.364174 5.332541 0.426275
0.000333 0.295263 4.942487
0.71834 9.364174 5.332541 0.426275
0.000333 0.116540 4.293388
0.85917 9.364174 5.332541 0.426275
0.000333 0.061415 3.673841
1.00000 9.364174 5.332541 0.426275
0.000333 0.237876 3.072056

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -0.378410 -81.137636 -0.420873
-0.000807 -0.467932 -145.793803
0.57751 -0.378410 -81.137636 -0.420873
-0.000807 -0.291481 -111.827812
0.71834 -0.378410 -81.137636 -0.420873
-0.000807 0.115041 -77.888069
0.85917 -0.378410 -81.137636 -0.420873
-0.000807 -0.062174 -43.957030
1.00000 -0.378410 -81.137636 -0.420873
-0.000807 -0.240918 -10.053207

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 15.683315 29.083183 0.552348
0.006220 0.613942 85.491577
0.57751 15.683315 29.083183 0.552348
0.006220 0.382372 77.489376
0.71834 15.683315 29.083183 0.552348
0.006220 0.150746 81.590991
0.85917 15.683315 29.083183 0.552348
0.006220 0.113665 103.673772
1.00000 15.683315 29.083183 0.552348
0.006220 0.369377 127.312128

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -1.789902 -171.191411 -0.611623
-0.006831 -0.657516 -185.891229
0.57751 -1.789902 -171.191411 -0.611623
-0.006831 -0.401113 -122.922982
0.71834 -1.789902 -171.191411 -0.611623
-0.006831 -0.166201 -80.515282
0.85917 -1.789902 -171.191411 -0.611623
-0.006831 -0.104860 -39.919875
1.00000 -1.789902 -171.191411 -0.611623
-0.006831 -0.333246 -7.353206
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3788

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 13.819434 73.898879 0.606871
0.004516 0.675231 186.386770
0.57751 13.819434 73.898879 0.606871
0.004516 0.420828 158.446042
0.71834 13.819434 73.898879 0.606871
0.004516 0.166259 138.890989
0.85917 13.819434 73.898879 0.606871
0.004516 0.118279 131.886839
1.00000 13.819434 73.898879 0.606871
0.004516 0.408885 127.559307

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -5.883763 -140.494035 -0.694174
-0.005036 -0.756018 -164.783946
0.57751 -5.883763 -140.494035 -0.694174
-0.005036 -0.464995 -112.206013
0.71834 -5.883763 -140.494035 -0.694174
-0.005036 -0.188739 -73.803631
0.85917 -5.883763 -140.494035 -0.694174
-0.005036 -0.104577 -36.696429
1.00000 -5.883763 -140.494035 -0.694174
-0.005036 -0.356830 -8.123812

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 12.072254 80.231924 0.723230
0.004182 0.804478 165.076345
0.57751 12.072254 80.231924 0.723230
0.004182 0.501263 136.903351
0.71834 12.072254 80.231924 0.723230
0.004182 0.197937 118.579963
0.85917 12.072254 80.231924 0.723230
0.004182 0.130237 111.044027
1.00000 12.072254 80.231924 0.723230
0.004182 0.463604 108.176527

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -8.033528 -118.678100 -0.795938
-0.004357 -0.871823 -140.454917
0.57751 -8.033528 -118.678100 -0.795938
-0.004357 -0.538131 -101.385040
0.71834 -8.033528 -118.678100 -0.795938
-0.004357 -0.216620 -74.999276
0.85917 -8.033528 -118.678100 -0.795938
-0.004357 -0.118738 -50.688615
1.00000 -8.033528 -118.678100 -0.795938
-0.004357 -0.420249 -34.150197

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 0.166399 28.734419 0.556654
0.000565 0.617696 1.763772
0.57751 0.166399 28.734419 0.556654
0.000565 0.384220 2.015932
0.71834 0.166399 28.734419 0.556654
0.000565 0.150571 3.687044
0.85917 0.166399 28.734419 0.556654
0.000565 0.088908 5.479755
1.00000 0.166399 28.734419 0.556654
0.000565 0.346205 7.375002

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -5.572241 -5.164894 -0.613287
-1.14E-05 -0.682088 -24.901649
0.57751 -5.572241 -5.164894 -0.613287
-1.14E-05 -0.424888 -35.493582
0.71834 -5.572241 -5.164894 -0.613287
-1.14E-05 -0.167620 -47.148703
0.85917 -5.572241 -5.164894 -0.613287
-1.14E-05 -0.081251 -58.829692
1.00000 -5.572241 -5.164894 -0.613287
-1.14E-05 -0.315185 -70.603828
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3789

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 0.983821 59.158293 0.862857
0.001103 0.957545 35.877629
0.57751 0.983821 59.158293 0.862857
0.001103 0.595716 26.271157
0.71834 0.983821 59.158293 0.862857
0.001103 0.233999 19.116067
0.85917 0.983821 59.158293 0.862857
0.001103 0.061158 13.489827
1.00000 0.983821 59.158293 0.862857
0.001103 0.593425 13.648543

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -8.967726 -8.290134 -1.049948
-0.000467 -1.167037 -26.823599
0.57751 -8.967726 -8.290134 -1.049948
-0.000467 -0.726791 -39.637575
0.71834 -8.967726 -8.290134 -1.049948
-0.000467 -0.286859 -55.750138
0.85917 -8.967726 -8.290134 -1.049948
-0.000467 -0.126297 -72.756632
1.00000 -8.967726 -8.290134 -1.049948
-0.000467 -0.488375 -93.140539

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 1.231390 103.373196 0.872483
0.000784 0.968361 186.710956
0.57751 1.231390 103.373196 0.872483
0.000784 0.602229 157.377855
0.71834 1.231390 103.373196 0.872483
0.000784 0.236704 129.997142
0.85917 1.231390 103.373196 0.872483
0.000784 0.167086 103.659629
1.00000 1.231390 103.373196 0.872483
0.000784 0.653079 81.393472

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -11.374349 -7.721695 -1.157029
-0.000253 -1.287300 -24.139277
0.57751 -11.374349 -7.721695 -1.157029
-0.000253 -0.802420 -36.033502
0.71834 -11.374349 -7.721695 -1.157029
-0.000253 -0.316713 -50.226013
0.85917 -11.374349 -7.721695 -1.157029
-0.000253 -0.126827 -65.233172
1.00000 -11.374349 -7.721695 -1.157029
-0.000253 -0.492149 -82.633320

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 6.805054 90.260431 0.970884
0.003605 1.069686 175.490987
0.57751 6.805054 90.260431 0.970884
0.003605 0.664792 152.559806
0.71834 6.805054 90.260431 0.970884
0.003605 0.262551 138.791934
0.85917 6.805054 90.260431 0.970884
0.003605 0.195020 138.295452
1.00000 6.805054 90.260431 0.970884
0.003605 0.726514 150.376410

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -9.844005 -82.789334 -1.266993
-0.003269 -1.398036 -75.804820
0.57751 -9.844005 -82.789334 -1.266993
-0.003269 -0.867611 -56.336582
0.71834 -9.844005 -82.789334 -1.266993
-0.003269 -0.346312 -51.816792
0.85917 -9.844005 -82.789334 -1.266993
-0.003269 -0.154532 -55.765895
1.00000 -9.844005 -82.789334 -1.266993
-0.003269 -0.560759 -71.063744
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3790

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 0.946935 39.596926 0.276786
0.000422 0.307760 75.923558
0.57751 0.946935 39.596926 0.276786
0.000422 0.191539 59.738043
0.71834 0.946935 39.596926 0.276786
0.000422 0.076082 44.031245
0.85917 0.946935 39.596926 0.276786
0.000422 0.062213 29.266546
1.00000 0.946935 39.596926 0.276786
0.000422 0.241060 18.497701

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -3.949636 -1.295363 -0.426585
-0.000268 -0.474500 -2.487260
0.57751 -3.949636 -1.295363 -0.426585
-0.000268 -0.295579 -2.740230
0.71834 -3.949636 -1.295363 -0.426585
-0.000268 -0.116636 -4.145956
0.85917 -3.949636 -1.295363 -0.426585
-0.000268 -0.040541 -6.218238
1.00000 -3.949636 -1.295363 -0.426585
-0.000268 -0.155979 -10.563474

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 4.514936 81.955830 0.402291
0.000454 0.433438 226.208449
0.57751 4.514936 81.955830 0.402291
0.000454 0.268212 194.916861
0.71834 4.514936 81.955830 0.402291
0.000454 0.107449 173.224510
0.85917 4.514936 81.955830 0.402291
0.000454 0.115811 163.398805
1.00000 4.514936 81.955830 0.402291
0.000454 0.396031 157.343802

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -6.381360 -53.117945 -0.667505
-0.004421 -0.724137 -21.891879
0.57751 -6.381360 -53.117945 -0.667505
-0.004421 -0.445428 -3.217467
0.71834 -6.381360 -53.117945 -0.667505
-0.004421 -0.180796 -3.685204
0.85917 -6.381360 -53.117945 -0.667505
-0.004421 -0.078775 -5.995975
1.00000 -6.381360 -53.117945 -0.667505
-0.004421 -0.245862 -10.542514

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 4.350564 98.040824 0.771388
0.000460 0.844372 202.073503
0.57751 4.350564 98.040824 0.771388
0.000460 0.524090 174.207261
0.71834 4.350564 98.040824 0.771388
0.000460 0.207641 157.185329
0.85917 4.350564 98.040824 0.771388
0.000460 0.174868 150.677915
1.00000 4.350564 98.040824 0.771388
0.000460 0.630748 146.720641

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -9.658724 -51.540552 -1.086419
-0.004122 -1.191176 -28.047472
0.57751 -9.658724 -51.540552 -1.086419
-0.004122 -0.737147 -20.707474
0.71834 -9.658724 -51.540552 -1.086419
-0.004122 -0.295161 -31.653193
0.85917 -9.658724 -51.540552 -1.086419
-0.004122 -0.130808 -44.180851
1.00000 -9.658724 -51.540552 -1.086419
-0.004122 -0.452940 -58.190443
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3791

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 8.808034 84.673030 0.959174
0.003083 1.058720 168.935848
0.57751 8.808034 84.673030 0.959174
0.003083 0.658367 145.097376
0.71834 8.808034 84.673030 0.959174
0.003083 0.260576 128.860206
0.85917 8.808034 84.673030 0.959174
0.003083 0.194074 122.364240
1.00000 8.808034 84.673030 0.959174
0.003083 0.731255 136.066030

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -8.366370 -97.215774 -1.280483
-0.003057 -1.415728 -100.044109
0.57751 -8.366370 -97.215774 -1.280483
-0.003057 -0.873477 -71.382076
0.71834 -8.366370 -97.215774 -1.280483
-0.003057 -0.350401 -54.946983
0.85917 -8.366370 -97.215774 -1.280483
-0.003057 -0.150482 -41.873217
1.00000 -8.366370 -97.215774 -1.280483
-0.003057 -0.551634 -52.127146

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43668 8.640745 6.115493 0.548053
0.000270 0.610164 6.504662
0.57751 8.640745 6.115493 0.548053
0.000270 0.380437 5.375329
0.71834 8.640745 6.115493 0.548053
0.000270 0.150720 4.828712
0.85917 8.640745 6.115493 0.548053
0.000270 0.092180 4.305089
1.00000 8.640745 6.115493 0.548053
0.000270 0.366891 3.760308

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43668 -0.377930 -81.518243 -0.655118

```
-0.000695   -0.730787 -147.993711
0.57751   -0.377930   -81.518243   -0.655118
-0.000695   -0.456070 -115.033747
0.71834   -0.377930   -81.518243   -0.655118
-0.000695   -0.181288   -82.316879
0.85917   -0.377930   -81.518243   -0.655118
-0.000695   -0.079570   -49.599520
1.00000   -0.377930   -81.518243   -0.655118
-0.000695   -0.308840   -16.898755

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43668   14.601031   27.379396   0.749813
0.006166   0.815855   91.437799
0.57751   14.601031   27.379396   0.749813
0.006166   0.506735   65.238267
0.71834   14.601031   27.379396   0.749813
0.006166   0.202381   92.670062
0.85917   14.601031   27.379396   0.749813
0.006166   0.161569  116.259390
1.00000   14.601031   27.379396   0.749813
0.006166   0.556710  140.175430

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43668  -1.560662 -168.238131   -0.944086
-0.006733   -1.025842 -187.421120
0.57751  -1.560662 -168.238131   -0.944086
-0.006733   -0.631257 -121.839351
0.71834  -1.560662 -168.238131   -0.944086
-0.006733   -0.257768   -82.282914
0.85917  -1.560662 -168.238131   -0.944086
-0.006733   -0.137793   -44.626877
1.00000  -1.560662 -168.238131   -0.944086
-0.006733   -0.451136   -9.390052
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3792

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43668   13.002284   66.482955   0.819251
0.004669   0.897446  188.524169
0.57751   13.002284   66.482955   0.819251
0.004669   0.558046  164.755463
0.71834   13.002284   66.482955   0.819251
0.004669   0.222501  150.922135
0.85917   13.002284   66.482955   0.819251
0.004669   0.179017  148.801849
1.00000   13.002284   66.482955   0.819251
0.004669   0.648725  147.981864

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43668  -4.940242 -139.930663   -1.119851
-0.005130   -1.228977 -165.529332
0.57751  -4.940242 -139.930663   -1.119851
-0.005130   -0.760392 -110.820192
0.71834  -4.940242 -139.930663   -1.119851
-0.005130   -0.306588   -74.942387
0.85917  -4.940242 -139.930663   -1.119851
-0.005130   -0.139112   -40.420389
1.00000  -4.940242 -139.930663   -1.119851
-0.005130   -0.481490   -9.151007

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43668   11.358932   78.240943   0.988914
0.004248   1.087999  167.902699
0.57751   11.358932   78.240943   0.988914
0.004248   0.676634  142.625855
0.71834   11.358932   78.240943   0.988914
0.004248   0.268484  129.139527
0.85917   11.358932   78.240943   0.988914
0.004248   0.206813  125.944783
1.00000   11.358932   78.240943   0.988914
0.004248   0.764654  126.049215

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43668  -7.151914 -118.772605   -1.329857
-0.004410   -1.461762 -185.057562
0.57751  -7.151914 -118.772605   -1.329857
-0.004410   -0.908370 -100.220503
0.71834  -7.151914 -118.772605   -1.329857
-0.004410   -0.363766   -77.518636
0.85917  -7.151914 -118.772605   -1.329857
-0.004410   -0.160475   -56.360829
1.00000  -7.151914 -118.772605   -1.329857
-0.004410   -0.574166   -39.218071

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43668   15.683315  100.289711   0.723230
0.006220   0.804478  216.748957
0.57751   15.683315  100.289711   0.723230
0.006220   0.501263  182.868292
0.71834   15.683315  100.289711   0.723230
0.006220   0.197937  159.075798
0.85917   15.683315  100.289711   0.723230
0.006220   0.132437  150.187103
1.00000   15.683315  100.289711   0.723230
0.006220   0.463604  144.779896

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43668  -11.851245 -171.191411   -0.795938
-0.006831   -0.871823 -185.891229
0.57751  -11.851245 -171.191411   -0.795938
-0.006831   -0.538131 -122.922982
0.71834  -11.851245 -171.191411   -0.795938
-0.006831   -0.216620   -80.515282
0.85917  -11.851245 -171.191411   -0.795938
-0.006831   -0.118738   -61.636798
1.00000  -11.851245 -171.191411   -0.795938
-0.006831   -0.420249   -77.536064
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3793

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43668   14.601031  103.373196   0.988914
0.006166   1.087999  226.208449
0.57751   14.601031  103.373196   0.988914
0.006166   0.676634  194.916861
0.71834   14.601031  103.373196   0.988914
0.006166   0.268484  173.224510
0.85917   14.601031  103.373196   0.988914
0.006166   0.206813  163.396805
1.00000   14.601031  103.373196   0.988914
0.006166   0.764654  157.343802

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43668  -11.374349 -168.238131   -1.329857
-0.006733   -1.465143 -187.421120
0.57751  -11.374349 -168.238131   -1.329857
-0.006733   -0.908370 -121.839351
0.71834  -11.374349 -168.238131   -1.329857
-0.006733   -0.363766   -82.316879
0.85917  -11.374349 -168.238131   -1.329857
-0.006733   -0.160475   -72.756632
1.00000  -11.374349 -168.238131   -1.329857
-0.006733   -0.574166   -93.140539

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43668   15.683315  103.373196   0.988914
0.006220   1.087999  226.208449
0.57751   15.683315  103.373196   0.988914
0.006220   0.676634  194.916861
0.71834   15.683315  103.373196   0.988914
0.006220   0.268484  173.224510
0.85917   15.683315  103.373196   0.988914
0.006220   0.206813  163.396805
1.00000   15.683315  103.373196   0.988914
0.006220   0.764654  157.343802

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43668  -11.851245 -171.191411   -1.329857
-0.006831   -1.465143 -187.421120
0.57751  -11.851245 -171.191411   -1.329857
-0.006831   -0.908370 -122.922982
0.71834  -11.851245 -171.191411   -1.329857
-0.006831   -0.363766   -82.316879
0.85917  -11.851245 -171.191411   -1.329857
-0.006831   -0.160475   -72.756632
1.00000  -11.851245 -171.191411   -1.329857
-0.006831   -0.574166   -93.140539

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43668   15.683315  103.373196   0.988914
0.006220   1.087999  226.208449
0.57751   15.683315  103.373196   0.988914
0.006220   0.676634  194.916861
0.71834   15.683315  103.373196   0.988914
0.006220   0.268484  173.224510
0.85917   15.683315  103.373196   0.988914
0.006220   0.206813  163.396805
1.00000   15.683315  103.373196   0.988914
0.006220   0.764654  157.343802

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43668  -11.851245 -171.191411   -1.329857
-0.006831   -1.465143 -187.421120
0.57751  -11.851245 -171.191411   -1.329857
-0.006831   -0.908370 -122.922982
0.71834  -11.851245 -171.191411   -1.329857
-0.006831   -0.363766   -82.316879
0.85917  -11.851245 -171.191411   -1.329857
-0.006831   -0.160475   -72.756632
1.00000  -11.851245 -171.191411   -1.329857
-0.006831   -0.574166   -93.140539
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3794

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      363 ================== LENGTH
=    2.977005

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.130513   21.732504   0.369677
0.000345   0.206620   5.523087
0.14083   0.130513   21.732504   0.369677
0.000345   0.051508   7.105351
0.28166   0.130513   21.732504   0.369677
0.000345   0.102847   8.735185
0.42249   0.130513   21.732504   0.369677
0.000345   0.257056  10.420133
0.56332   0.130513   21.732504   0.369677
0.000345   0.411272  12.117793

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -4.923788   -4.062973   -0.367839
-1.06E-05   -0.205597   -56.679748
0.14083  -4.923788   -4.062973   -0.367839
-1.06E-05   -0.051280   -65.647740
0.28166  -4.923788   -4.062973   -0.367839
-1.06E-05   -0.103365   -74.635927
0.42249  -4.923788   -4.062973   -0.367839
-1.06E-05   -0.258368   -83.637703
0.56332  -4.923788   -4.062973   -0.367839
-1.06E-05   -0.413355   -92.678329

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.884947   50.399465   0.590185
0.000859   0.330886   11.988356
0.14083   0.884947   50.399465   0.590185
0.000859   0.083332   12.472517
0.28166   0.884947   50.399465   0.590185
0.000859   0.164352   13.494463
0.42249   0.884947   50.399465   0.590185
0.000859   0.410890   15.132710
0.56332   0.884947   50.399465   0.590185
0.000859   0.658035   17.367252

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -8.823210   -5.784230   -0.589498
-0.000277   -0.330578   -77.573685
0.14083  -8.823210   -5.784230   -0.589498
-0.000277   -0.083394   -95.734112
0.28166  -8.823210   -5.784230   -0.589498
-0.000277   -0.164654  -114.581730
0.42249  -8.823210   -5.784230   -0.589498
-0.000277   -0.412149  -133.684490
0.56332  -8.823210   -5.784230   -0.589498
-0.000277   -0.659585  -153.817564

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   1.114942   99.375512   0.601086
0.000992   0.336793   63.062331
0.14083   1.114942   99.375512   0.601086
0.000992   0.084664   43.110262
0.28166   1.114942   99.375512   0.601086
0.000992   0.182202   38.710489
0.42249   1.114942   99.375512   0.601086
0.000992   0.451405   38.023779
0.56332   1.114942   99.375512   0.601086
0.000992   0.720690   38.590554

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -11.687091   -5.714879   -0.642294
-0.000397   -0.356578   -68.683050
0.14083  -11.687091   -5.714879   -0.642294
-0.000397   -0.087426   -82.147718
0.28166  -11.687091   -5.714879   -0.642294
-0.000397   -0.167173   -95.964438
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3795

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.42249  -11.687091   -5.714879   -0.642294
-0.000397   -0.419249  -132.966430
0.56332  -11.687091   -5.714879   -0.642294
-0.000397   -0.671255  -174.346438

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   5.335351  120.980155   0.672646
0.004323   0.390827  136.857862
0.14083   5.335351  120.980155   0.672646
0.004323   0.109753  123.453192
0.28166   5.335351  120.980155   0.672646
0.004323   0.205127  122.721247
0.42249   5.335351  120.980155   0.672646
0.004323   0.499051  134.166847
0.56332   5.335351  120.980155   0.672646
0.004323   0.805834  153.246602

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -11.885943   -54.369819   -0.731735
-0.004050   -0.421960   -59.209385
0.14083  -11.885943   -54.369819   -0.731735
-0.004050   -0.115812   -71.150715
0.28166  -11.885943   -54.369819   -0.731735
-0.004050   -0.187170   -83.567071
0.42249  -11.885943   -54.369819   -0.731735
-0.004050   -0.469287  -115.084942
0.56332  -11.885943   -54.369819   -0.731735
-0.004050   -0.751297  -157.446866

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.988970   40.508007   0.200953
0.000416   0.112783   15.067035
0.14083   0.988970   40.508007   0.200953
0.000416   0.028579   10.349195
0.28166   0.988970   40.508007   0.200953
0.000416   0.055494   8.868792
0.42249   0.988970   40.508007   0.200953
0.000416   0.139683   8.327558
0.56332   0.988970   40.508007   0.200953
0.000416   0.223826   8.130067

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -4.619960   -1.289802   -0.200707
-0.000195   -0.112748   -10.985948
0.14083  -4.619960   -1.289802   -0.200707
-0.000195   -0.028555   -15.101501
0.28166  -4.619960   -1.289802   -0.200707
-0.000195   -0.055636   -29.304933
0.42249  -4.619960   -1.289802   -0.200707
-0.000195   -0.139509   -45.491467
0.56332  -4.619960   -1.289802   -0.200707
-0.000195   -0.224155   -62.223142

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   1.785667  134.192838   0.278416
0.005478   0.175758  145.034917
0.14083   1.785667  134.192838   0.278416
0.005478   0.060529  100.632530
0.28166   1.785667  134.192838   0.278416
0.005478   0.102343   72.690949
0.42249   1.785667  134.192838   0.278416
0.005478   0.236940   61.505001
0.56332   1.785667  134.192838   0.278416
0.005478   0.389128   60.520042

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -9.781494   -9.629539   -0.363003
-0.005265   -0.220527   -10.811154
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3796

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.14083   -9.781494   -9.629539   -0.363003
-0.005265   -0.069267   -15.100916
0.28166   -9.781494   -9.629539   -0.363003
-0.005265   -0.076844   -20.050837
0.42249   -9.781494   -9.629539   -0.363003
-0.005265   -0.193703   -50.363115
0.56332   -9.781494   -9.629539   -0.363003
-0.005265   -0.310428   -95.296501

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   1.857340  139.187135   0.529743
0.005216   0.314335  134.103371
0.14083   1.857340  139.187135   0.529743
0.005216   0.093502   95.257110
0.28166   1.857340  139.187135   0.529743
0.005216   0.169639   71.379900
0.42249   1.857340  139.187135   0.529743
0.005216   0.407095   62.259860
0.56332   1.857340  139.187135   0.529743
0.005216   0.660411   62.519083

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -12.520335  -11.449754   -0.604216
-0.004751   -0.353677   -49.834351
0.14083  -12.520335  -11.449754   -0.604216
-0.004751   -0.101742   -61.185210
0.28166  -12.520335  -11.449754   -0.604216
-0.004751   -0.147087   -73.277340
0.42249  -12.520335  -11.449754   -0.604216
-0.004751   -0.369373  -108.472151
0.56332  -12.520335  -11.449754   -0.604216
-0.004751   -0.591467  -156.509809

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   7.923847  110.833707   0.683939
0.003697   0.394693  122.311550
0.14083   7.923847  110.833707   0.683939
0.003697   0.108760  120.272922
0.28166   7.923847  110.833707   0.683939
0.003697   0.206547  131.355338
0.42249   7.923847  110.833707   0.683939
0.003697   0.504921  152.823206
0.56332   7.923847  110.833707   0.683939
0.003697   0.813709  180.684312

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -10.364762   -74.379613   -0.736532
-0.003619   -0.422006   -44.592326
0.14083  -10.364762   -74.379613   -0.736532
-0.003619   -0.113739   -54.929278
0.28166  -10.364762   -74.379613   -0.736532
-0.003619   -0.190067   -65.791732
0.42249  -10.364762   -74.379613   -0.736532
-0.003619   -0.476959   -96.087237
0.56332  -10.364762   -74.379613   -0.736532
-0.003619   -0.763698  -135.716476

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   9.447572   5.366053   0.420449
0.000418   0.235634   3.069155
0.14083   9.447572   5.366053   0.420449
0.000418   0.059340  25.939440
0.28166   9.447572   5.366053   0.420449
0.000418   0.115372  59.759609
0.42249   9.447572   5.366053   0.420449
0.000418   0.289254  93.831895
0.56332   9.447572   5.366053   0.420449
0.000418   0.463150 127.995383
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3797

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -0.369966   -81.645319   -0.414777
-0.000824   -0.232438   -10.095155
0.14083  -0.369966   -81.645319   -0.414777
-0.000824   -0.058510   -7.220735
0.28166  -0.369966   -81.645319   -0.414777
-0.000824   -0.116934   -8.668193
0.42249  -0.369966   -81.645319   -0.414777
-0.000824   -0.293216   -10.265011
0.56332  -0.369966   -81.645319   -0.414777
-0.000824   -0.469490   -12.249626

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   11.766529   86.546837   0.542833
0.006371   0.327446  127.613236
0.14083   11.766529   86.546837   0.542833
0.006371   0.101687  135.062171
0.28166   11.766529   86.546837   0.542833
0.006371   0.166406  147.248806
0.42249   11.766529   86.546837   0.542833
0.006371   0.398532  176.827637
0.56332   11.766529   86.546837   0.542833
0.006371   0.652005  218.226105

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -4.698907  -109.048965   -0.604620
-0.006868   -0.362880   -7.337793
0.14083  -4.698907  -109.048965   -0.604620
-0.006868   -0.110316   -9.554511
0.28166  -4.698907  -109.048965   -0.604620
-0.006868   -0.151128   -11.847073
0.42249  -4.698907  -109.048965   -0.604620
-0.006868   -0.378783   -15.962959
0.56332  -4.698907  -109.048965   -0.604620
-0.006868   -0.606367   -36.689493

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   11.172936  112.821143   0.601784
0.004858   0.353726  127.721692
0.14083   11.172936  112.821143   0.601784
0.004858   0.102681  126.539071
0.28166   11.172936  112.821143   0.601784
0.004858   0.186896  140.592944
0.42249   11.172936  112.821143   0.601784
0.004858   0.451656  168.585882
0.56332   11.172936  112.821143   0.601784
0.004858   0.731132  205.342809

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -7.800335   -98.032164   -0.666617
-0.005169   -0.387557   -8.107876
0.14083  -7.800335   -98.032164   -0.666617
-0.005169   -0.108852   -10.244037
0.28166  -7.800335   -98.032164   -0.666617
-0.005169   -0.166866   -13.250437
0.42249  -7.800335   -98.032164   -0.666617
-0.005169   -0.419302   -39.574708
0.56332  -7.800335   -98.032164   -0.666617
-0.005169   -0.671573   -77.568625

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   9.887709  112.202657   0.715516
0.004290   0.414439  108.316677
0.14083   9.887709  112.202657   0.715516
0.004290   0.115412  108.164746
0.28166   9.887709  112.202657   0.715516
0.004290   0.215421  120.762160
0.42249   9.887709  112.202657   0.715516
0.004290   0.526017  144.919518
0.56332   9.887709  112.202657   0.715516
0.004290   0.848758  176.341848
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3798

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000  -9.582990   -83.555274   -0.769806
-0.004306   -0.442841   -34.153179
0.14083  -9.582990   -83.555274   -0.769806
-0.004306   -0.102721   -43.169751
0.28166  -9.582990   -83.555274   -0.769806
-0.004306   -0.198737   -52.717290
0.42249  -9.582990   -83.555274   -0.769806
-0.004306   -0.498829   -81.460832
0.56332  -9.582990   -83.555274   -0.769806
-0.004306   -0.798809  -120.525989

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.164053   28.623904   0.536965
0.000294   0.298694   7.386453
0.14083   0.164053   28.623904   0.536965
0.000294   0.073037   9.413364
0.28166   0.164053   28.623904   0.536965
0.000294   0.166465  11.508397
0.42249   0.164053   28.623904   0.536965
0.000294   0.414457  13.627228
0.56332   0.164053   28.623904   0.536965
0.000294   0.662328  15.765562

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -5.520265   -5.114489   -0.591114
```

```
-7.63E-06   -0.328679   -70.633349
0.14083     -5.520265    -5.114489    -0.591114
-7.63E-06   -0.080688   -82.455817
0.28166     -5.520265    -5.114489    -0.591114
-7.63E-06   -0.150520   -94.346999
0.42249     -5.520265    -5.114489    -0.591114
-7.63E-06   -0.375907  -106.272994
0.56332     -5.520265    -5.114489    -0.591114
-7.63E-06   -0.601107  -118.218648

COMB DL-G1-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.915975    59.822365    0.832040
0.000684    0.463416    13.668349
0.14083     0.915975    59.822365    0.832040
0.000684    0.114331    14.782841
0.28166     0.915975    59.822365    0.832040
0.000684    0.285905    16.768788
0.42249     0.915975    59.822365    0.832040
0.000684    0.710955    19.263237
0.56332     0.915975    59.822365    0.832040
0.000684    1.136274    22.028909

COMB DL-G1-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -8.940564    -7.114569   -1.014455
-0.000201   -0.564686   -93.193349
0.14083    -8.940564    -7.114569   -1.014455
-0.000201   -0.139966  -115.293288
0.28166    -8.940564    -7.114569   -1.014455
-0.000201   -0.233122  -138.207777
0.42249    -8.940564    -7.114569   -1.014455
-0.000201   -0.581853  -162.120310
0.56332    -8.940564    -7.114569   -1.014455
-0.000201   -0.930809  -186.655201

COMB DL-G1-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.240222   102.541139    0.839907
0.000825    0.467782   121.375131
0.14083     1.240222   102.541139    0.839907
0.000825    0.115370    62.989406
0.28166     1.240222   102.541139    0.839907
0.000825    0.314336    51.073021
0.42249     1.240222   102.541139    0.839907
0.000825    0.780575    47.108034
0.56332     1.240222   102.541139    0.839907
0.000825    1.245984    46.667978
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3799

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -11.221340    -7.685171   -1.110691
-0.000333   -0.616904   -82.677621
0.14083   -11.221340    -7.685171   -1.110691
-0.000333   -0.150205  -100.341157
0.28166   -11.221340    -7.685171   -1.110691
-0.000333   -0.235132  -118.595679
0.42249   -11.221340    -7.685171   -1.110691
-0.000333   -0.586966  -155.108837
0.56332   -11.221340    -7.685171   -1.110691
-0.000333   -0.939413  -194.903456

COMB DL-G1-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     5.107930   115.716087    0.946432
0.000391    0.540306   150.358374
0.14083     5.107930   115.716087    0.946432
0.000391    0.144583   142.238981
0.28166     5.107930   115.716087    0.946432
0.000391    0.345597   139.414974
0.42249     5.107930   115.716087    0.946432
0.000391    0.854242   149.518496
0.56332     5.107930   115.716087    0.946432
0.000391    1.371500   167.465838

COMB DL-G1-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -11.154106   -55.247091   -1.236117
-0.003161   -0.709393   -71.991922
0.14083   -11.154106   -55.247091   -1.236117
-0.003161   -0.182624   -86.679533
0.28166   -11.154106   -55.247091   -1.236117
-0.003161   -0.262500  -102.921022
0.42249   -11.154106   -55.247091   -1.236117
-0.003161   -0.654314  -134.067085
0.56332   -11.154106   -55.247091   -1.236117
-0.003161   -1.048712  -175.317166

COMB DL-G2-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.953565    39.356446    0.266503
0.000345    0.148409    18.484911
0.14083     0.953565    39.356446    0.266503
0.000345    0.037602    10.811380
0.28166     0.953565    39.356446    0.266503
0.000345    0.116800     8.245510
0.42249     0.953565    39.356446    0.266503
0.000345    0.290478     7.397254
0.56332     0.953565    39.356446    0.266503
0.000345    0.464163     7.147850

COMB DL-G2-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -3.908582    -1.254945   -0.414152
-0.000176   -0.230394   -10.575242
0.14083    -3.908582    -1.254945   -0.414152
-0.000176   -0.056672   -16.064704
0.28166    -3.908582    -1.254945   -0.414152
-0.000176   -0.077146   -28.393087
0.42249    -3.908582    -1.254945   -0.414152
-0.000176   -0.186239   -44.147598
0.56332    -3.908582    -1.254945   -0.414152
-0.000176   -0.298074   -59.932703

COMB DL-G2-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.861580   121.061287    0.389396
0.004673    0.236319   157.339295
0.14083     1.861580   121.061287    0.389396
0.004673    0.075018   117.959844
0.28166     1.861580   121.061287    0.389396
0.004673    0.179785    85.421836
0.42249     1.861580   121.061287    0.389396
0.004673    0.434946    71.488741
0.56332     1.861580   121.061287    0.389396
0.004673    0.703442    68.718901
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3800

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -8.474347   -10.535661   -0.644149
-0.004506   -0.377584   -10.547542
0.14083    -8.474347   -10.535661   -0.644149
-0.004506   -0.107440   -15.460211
0.28166    -8.474347   -10.535661   -0.644149
-0.004506   -0.106225   -22.111705
0.42249    -8.474347   -10.535661   -0.644149
-0.004506   -0.261391   -47.983576
0.56332    -8.474347   -10.535661   -0.644149
-0.004506   -0.420679   -88.454305

COMB DL-G2-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.950429   133.322161    0.744781
0.004464    0.432092   146.726008
0.14083     1.950429   133.322161    0.744781
0.004464    0.121504   112.528801
0.28166     1.950429   133.322161    0.744781
0.004464    0.293592    84.540810
0.42249     1.950429   133.322161    0.744781
0.004464    0.719929    73.464742
0.56332     1.950429   133.322161    0.744781
0.004464    1.158027    72.421374

COMB DL-G2-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -11.511822   -12.992177   -1.048182
-0.004069   -0.600251   -58.224334
0.14083   -11.511822   -12.992177   -1.048182
-0.004069   -0.160519   -72.450146
0.28166   -11.511822   -12.992177   -1.048182
-0.004069   -0.206166   -88.538480
0.42249   -11.511822   -12.992177   -1.048182
-0.004069   -0.511221  -121.852385
0.56332   -11.511822   -12.992177   -1.048182
-0.004069   -0.820052  -168.272355

COMB DL-G2-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     7.426592   105.748966    0.941402
0.002977    0.536128   136.024645
0.14083     7.426592   105.748966    0.941402
0.002977    0.142830   138.099306
0.28166     7.426592   105.748966    0.941402
0.002977    0.350949   145.456492
0.42249     7.426592   105.748966    0.941402
0.002977    0.871037   164.976820
0.56332     7.426592   105.748966    0.941402
0.002977    1.397969   191.420214

COMB DL-G2-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -9.442317   -74.529728   -1.258655
-0.002884   -0.712474   -52.143407
0.14083    -9.442317   -74.529728   -1.258655
-0.002884   -0.184363   -65.116587
0.28166    -9.442317   -74.529728   -1.258655
-0.002884   -0.261072   -79.461201
0.42249    -9.442317   -74.529728   -1.258655
-0.002884   -0.651356  -108.599619
0.56332    -9.442317   -74.529728   -1.258655
-0.002884   -1.043947  -146.417752

COMB DL-G3-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     8.705612     6.113767    0.554046
0.000342    0.311230    3.756305
0.14083     8.705612     6.113767    0.554046
0.000342    0.079301    25.952896
0.28166     8.705612     6.113767    0.554046
0.000342    0.183997    59.469885
0.42249     8.705612     6.113767    0.554046
0.000342    0.465096    93.374717
0.56332     8.705612     6.113767    0.554046
0.000342    0.746128   127.524849
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3801

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.365063   -81.913139   -0.670043
-0.000701   -0.076411   -16.938308
0.14083    -0.365063   -81.913139   -0.670043
-0.000701   -0.095322    -9.488219
0.28166    -0.365063   -81.913139   -0.670043
-0.000701   -0.153109   -11.062208
0.42249    -0.365063   -81.913139   -0.670043
-0.000701   -0.385430   -13.012440
0.56332    -0.365063   -81.913139   -0.670043
-0.000701   -0.617679   -15.404772

COMB DL-G3-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     10.900114    83.673495    0.754576
0.006294    0.451636    140.199219
0.14083     10.900114    83.673495    0.754576
0.006294    0.136745    149.165546
0.28166     10.900114    83.673495    0.754576
0.006294    0.260782    161.430561
0.42249     10.900114    83.673495    0.754576
0.006294    0.641989    188.567722
0.56332     10.900114    83.673495    0.754576
0.006294    1.043028    227.805612

COMB DL-G3-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -4.640770  -108.347196   -0.960726
-0.006710   -0.566964    -9.397132
0.14083    -4.640770  -108.347196   -0.960726
-0.006710   -0.164911   -11.574986
0.28166    -4.640770  -108.347196   -0.960726
-0.006710   -0.220573   -14.267847
0.42249    -4.640770  -108.347196   -0.960726
-0.006710   -0.511300   -19.139796
0.56332    -4.640770  -108.347196   -0.960726
-0.006710   -0.822003   -43.015761

COMB DL-G3-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     10.358804   106.736354    0.817567
0.004899    0.478118    147.933804
0.14083     10.358804   106.736354    0.817567
0.004899    0.137286    146.991733
0.28166     10.358804   106.736354    0.817567
0.004899    0.308524    152.503756
0.42249     10.358804   106.736354    0.817567
0.004899    0.762229    175.876975
0.56332     10.358804   106.736354    0.817567
0.004899    1.229913    209.902884

COMB DL-G3-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -7.095342   -96.892442   -1.118833
-0.005183   -0.645817    -9.137227
0.14083    -7.095342   -96.892442   -1.118833
-0.005183   -0.176869   -11.276073
0.28166    -7.095342   -96.892442   -1.118833
-0.005183   -0.224130   -16.459142
0.42249    -7.095342   -96.892442   -1.118833
-0.005183   -0.558767   -37.343858
0.56332    -7.095342   -96.892442   -1.118833
-0.005183   -0.897165   -72.281532

COMB DL-G3-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     9.167795   111.479983    0.976406
0.004286    0.562485   126.021041
0.14083     9.167795   111.479983    0.976406
0.004286    0.154816   126.353450
0.28166     9.167795   111.479983    0.976406
0.004286    0.365210   132.012808
0.42249     9.167795   111.479983    0.976406
0.004286    0.904502   152.457736
0.56332     9.167795   111.479983    0.976406
0.004286    1.455108   181.773186
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3802

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -8.908299   -83.051880   -1.316155
-0.004325   -0.751533   -39.228563
0.14083    -8.908299   -83.051880   -1.316155
-0.004325   -0.199555   -50.044700
0.28166    -8.908299   -83.051880   -1.316155
-0.004325   -0.269333   -63.184545
0.42249    -8.908299   -83.051880   -1.316155
-0.004325   -0.672144   -89.752614
0.56332    -8.908299   -83.051880   -1.316155
-0.004325   -1.078013  -128.116434

COMB    DB ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    11.766529   139.187135    0.715516
0.006371    0.414439   145.034917
0.14083    11.766529   139.187135    0.715516
0.006371    0.115412   135.062171
0.28166    11.766529   139.187135    0.715516
0.006371    0.215421   147.248806
0.42249    11.766529   139.187135    0.715516
0.006371    0.526017   176.827637
0.56332    11.766529   139.187135    0.715516
0.006371    0.848758   218.226105

COMB    DB ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -12.520335  -109.048965   -0.769806
-0.006868   -0.442841   -77.573685
0.14083   -12.520335  -109.048965   -0.769806
-0.006868   -0.120721   -95.734112
0.28166   -12.520335  -109.048965   -0.769806
-0.006868   -0.196737  -114.581730
0.42249   -12.520335  -109.048965   -0.769806
-0.006868   -0.498829  -133.684490
0.56332   -12.520335  -109.048965   -0.769806
-0.006868   -0.798809  -174.346438

COMB    DL ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    10.900114   133.322161    0.976406
0.006294    0.562485   157.339295
0.14083    10.900114   133.322161    0.976406
0.006294    0.154816   149.165546
0.28166    10.900114   133.322161    0.976406
0.006294    0.365210   161.430561
0.42249    10.900114   133.322161    0.976406
0.006294    0.904502   188.567722
0.56332    10.900114   133.322161    0.976406
0.006294    1.455108   227.805612

COMB    DL ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -11.511822  -108.347196   -1.316155
-0.006710   -0.751533   -93.193349
0.14083   -11.511822  -108.347196   -1.316155
-0.006710   -0.199555  -115.293288
0.28166   -11.511822  -108.347196   -1.316155
-0.006710   -0.269333  -138.207777
0.42249   -11.511822  -108.347196   -1.316155
-0.006710   -0.672144  -162.120310
0.56332   -11.511822  -108.347196   -1.316155
-0.006710   -1.078013  -194.903456

COMB    CAR ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    11.766529   139.187135    0.976406
0.006371    0.562485   157.339295
0.14083    11.766529   139.187135    0.976406
0.006371    0.154816   149.165546
0.28166    11.766529   139.187135    0.976406
0.006371    0.365210   161.430561
0.42249    11.766529   139.187135    0.976406
0.006371    0.904502   188.567722
0.56332    11.766529   139.187135    0.976406
0.006371    1.455108   227.805612
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3803

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB    CAR ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -12.520335  -109.048965   -1.316155
-0.006868   -0.751533   -93.193349
0.14083   -12.520335  -109.048965   -1.316155
-0.006868   -0.199555  -115.293288
0.28166   -12.520335  -109.048965   -1.316155
-0.006868   -0.269333  -138.207777
0.42249   -12.520335  -109.048965   -1.316155
-0.006868   -0.672144  -162.120310
0.56332   -12.520335  -109.048965   -1.316155
-0.006868   -1.078013  -194.903456

COMB  DESIGN ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    11.766529   139.187135    0.976406
0.006371    0.562485   157.339295
0.14083    11.766529   139.187135    0.976406
0.006371    0.154816   149.165546
0.28166    11.766529   139.187135    0.976406
0.006371    0.365210   161.430561
0.42249    11.766529   139.187135    0.976406
0.006371    0.904502   188.567722
0.56332    11.766529   139.187135    0.976406
0.006371    1.455108   227.805612

COMB  DESIGN ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -12.520335  -109.048965   -1.316155
-0.006868   -0.751533   -93.193349
0.14083   -12.520335  -109.048965   -1.316155
-0.006868   -0.199555  -115.293288
0.28166   -12.520335  -109.048965   -1.316155
-0.006868   -0.269333  -138.207777
0.42249   -12.520335  -109.048965   -1.316155
-0.006868   -0.672144  -162.120310
0.56332   -12.520335  -109.048965   -1.316155
-0.006868   -1.078013  -194.903456

ELEM      364 ================== LENGTH =    2.977432

COMB DB-G1-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43662     0.181647    24.055648    0.388051
0.000272    0.430960     1.678871
0.57746     0.181647    24.055648    0.388051
0.000272    0.308229     1.862680
0.71831     0.181647    24.055648    0.388051
0.000272    0.105514     2.416849
0.85915     0.181647    24.055648    0.388051
0.000272    0.056024     3.037260
1.00000     0.181647    24.055648    0.388051
0.000272    0.215383     3.781395

COMB DB-G1-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -5.292261    -2.378151   -0.379754
-0.000470   -0.421648   -19.023682
0.57746    -5.292261    -2.378151   -0.379754
-0.000470   -0.262396   -28.698557
0.71831    -5.292261    -2.378151   -0.379754
-0.000470   -0.103128   -38.400370
0.85915    -5.292261    -2.378151   -0.379754
-0.000470   -0.057091   -48.120250
1.00000    -5.292261    -2.378151   -0.379754
-0.000470   -0.219969   -57.914647

COMB DB-G1-2 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43662     1.108427    52.592447    0.618613
0.000819    0.686647    34.198956
0.57746     1.108427    52.592447    0.618613
0.000819    0.427243    24.883373
0.71831     1.108427    52.592447    0.618613
0.000819    0.168453    16.971439
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3804

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.85915     1.108427    52.592447    0.618613
0.000819    0.089553    10.752375
1.00000     1.108427    52.592447    0.618613
0.000819    0.343092     9.642090

COMB DB-G1-2 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -9.134208    -5.436148   -0.604646
-0.001094   -0.671709   -20.624204
0.57746    -9.134208    -5.436148   -0.604646
-0.001094   -0.418148   -32.016242
0.71831    -9.134208    -5.436148   -0.604646
-0.001094   -0.164575   -45.823075
0.85915    -9.134208    -5.436148   -0.604646
-0.001094   -0.091437   -61.538954
1.00000    -9.134208    -5.436148   -0.604646
-0.001094   -0.351045   -78.945628

COMB DB-G1-3 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43662     1.110744   103.652317    0.711877
0.000582    0.790687   182.528516
0.57746     1.110744   103.652317    0.711877
0.000582    0.492185   150.628435
0.71831     1.110744   103.652317    0.711877
0.000582    0.193676   119.561733
0.85915     1.110744   103.652317    0.711877
0.000582    0.089496    89.313566
1.00000     1.110744   103.652317    0.711877
0.000582    0.346710    62.137567

COMB DB-G1-3 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -12.078946    -3.547299   -0.612915
-0.000812   -0.681440   -17.730611
0.57746    -12.078946    -3.547299   -0.612915
-0.000812   -0.424408   -28.869458
0.71831    -12.078946    -3.547299   -0.612915
-0.000812   -0.167365   -41.241145
0.85915    -12.078946    -3.547299   -0.612915
-0.000812   -0.104851   -54.896374
1.00000    -12.078946    -3.547299   -0.612915
-0.000812   -0.403462   -69.594569

COMB DB-G1-4 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43662     7.754024    89.174163    0.793091
0.004315    0.867066   168.418025
0.57746     7.754024    89.174163    0.793091
0.004315    0.534829   143.922556
0.71831     7.754024    89.174163    0.793091
0.004315    0.214996   126.902289
0.85915     7.754024    89.174163    0.793091
0.004315    0.112390   124.045698
1.00000     7.754024    89.174163    0.793091
0.004315    0.392724   136.410596

COMB DB-G1-4 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -10.398100   -90.982673   -0.675384
-0.004407   -0.750775   -78.568485
0.57746    -10.398100   -90.982673   -0.675384
-0.004407   -0.467544   -56.006963
0.71831    -10.398100   -90.982673   -0.675384
-0.004407   -0.184309   -46.836876
0.85915    -10.398100   -90.982673   -0.675384
-0.004407   -0.131545   -46.678227
1.00000    -10.398100   -90.982673   -0.675384
-0.004407   -0.463842   -59.291767

COMB DB-G2-1 ---------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43662     1.029808    42.045358    0.218859
0.000378    0.243160    76.723458
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD          >
                                    3805

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.57746     1.029808    42.045358    0.218859
0.000378    0.151375    59.154656
0.71831     1.029808    42.045358    0.218859
0.000378    0.059608    42.157833
0.85915     1.029808    42.045358    0.218859
0.000378    0.029474    26.326094
1.00000     1.029808    42.045358    0.218859
0.000378    0.114905    15.156721

COMB DB-G2-1 ---------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -4.617969    -1.071886   -0.203616
```

```
-0.000440   -0.226647   -2.139230
0.57746   -4.617969   -1.071886   -0.203616
-0.000440   -0.141263   -1.960002
0.71831   -4.617969   -1.071886   -0.203616
-0.000440   -0.055861   -3.284913
0.85915   -4.617969   -1.071886   -0.203616
-0.000440   -0.032197   -6.307903
1.00000   -4.617969   -1.071886   -0.203616
-0.000440   -0.124014   -10.672067

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   5.052644   88.644575   0.418038
0.005128   0.445223   219.313076
0.57746   5.052644   88.644575   0.418038
0.005128   0.270390   185.411086
0.71831   5.052644   88.644575   0.418038
0.005128   0.112559   160.979066
0.85915   5.052644   88.644575   0.418038
0.005128   0.058467   151.762995
1.00000   5.052644   88.644575   0.418038
0.005128   0.170073   146.058834

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -7.405083   -61.112399   -0.275983
-0.005131   -0.307346   -20.635470
0.57746   -7.405083   -61.112399   -0.275983
-0.005131   -0.191610   -2.577286
0.71831   -7.405083   -61.112399   -0.275983
-0.005131   -0.075860   -2.865188
0.85915   -7.405083   -61.112399   -0.275983
-0.005131   -0.082062   -5.932844
1.00000   -7.405083   -61.112399   -0.275983
-0.005131   -0.256768   -10.216536

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   4.738767   99.877755   0.668488
0.004864   0.725276   197.566728
0.57746   4.738767   99.877755   0.668488
0.004864   0.445370   166.172948
0.71831   4.738767   99.877755   0.668488
0.004864   0.180770   145.467303
0.85915   4.738767   99.877755   0.668488
0.004864   0.094900   138.439504
1.00000   4.738767   99.877755   0.668488
0.004864   0.315599   133.934493

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -10.581637   -56.778908   -0.535070
-0.005013   -0.595002   -24.902569
0.57746   -10.581637   -56.778908   -0.535070
-0.005013   -0.370619   -17.636757
0.71831   -10.581637   -56.778908   -0.535070
-0.005013   -0.146180   -26.678347
0.85915   -10.581637   -56.778908   -0.535070
-0.005013   -0.119902   -37.948206
1.00000   -10.581637   -56.778908   -0.535070
-0.005013   -0.396753   -50.090914
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3806

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   9.799028   84.667611   0.794259
0.003768   0.871159   165.924290
0.57746   9.799028   84.667611   0.794259
0.003768   0.538329   139.068559
0.71831   9.799028   84.667611   0.794259
0.003768   0.215607   120.487016
0.85915   9.799028   84.667611   0.794259
0.003768   0.110492   111.819469
1.00000   9.799028   84.667611   0.794259
0.003768   0.393780   122.414807

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -9.041917   -104.983780   -0.681233
-0.003763   -0.757484   -107.703513
0.57746   -9.041917   -104.983780   -0.681233
-0.003763   -0.471774   -76.368707
0.71831   -9.041917   -104.983780   -0.681233
-0.003763   -0.186074   -55.914172
0.85915   -9.041917   -104.983780   -0.681233
-0.003763   -0.128836   -37.101827
1.00000   -9.041917   -104.983780   -0.681233
-0.003763   -0.461605   -43.796547

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   9.504175   3.767258   0.422518
0.000671   0.469813   5.699359
0.57746   9.504175   3.767258   0.422518
0.000671   0.292628   4.974760
0.71831   9.504175   3.767258   0.422518
0.000671   0.115458   4.268227
0.85915   9.504175   3.767258   0.422518
0.000671   0.058376   3.501772
1.00000   9.504175   3.767258   0.422518
0.000671   0.230985   2.919562

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -0.303449   -83.988102   -0.408500
-0.000438   -0.454264   -150.707694
0.57746   -0.303449   -83.988102   -0.408500
-0.000438   -0.282956   -115.534818
0.71831   -0.303449   -83.988102   -0.408500
-0.000438   -0.111628   -80.389056
0.85915   -0.303449   -83.988102   -0.408500
-0.000438   -0.061724   -45.250254
1.00000   -0.303449   -83.988102   -0.408500
-0.000438   -0.238932   -10.176199

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   15.865036   26.985157   0.624969
0.000651   0.671451   84.206336
0.57746   15.865036   26.985157   0.624969
0.000651   0.409899   77.397456
0.71831   15.865036   26.985157   0.624969
0.000651   0.169069   82.005512
0.85915   15.865036   26.985157   0.624969
0.000651   0.100323   104.207270
1.00000   15.865036   26.985157   0.624969
0.000651   0.318001   128.159642

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -1.691623   -174.637330   -0.531181
-0.006373   -0.590613   -191.308825
0.57746   -1.691623   -174.637330   -0.531181
-0.006373   -0.367856   -126.879167
0.71831   -1.691623   -174.637330   -0.531181
-0.006373   -0.145052   -83.154698
0.85915   -1.691623   -174.637330   -0.531181
-0.006373   -0.116307   -41.112346
1.00000   -1.691623   -174.637330   -0.531181
-0.006373   -0.377785   -5.015183

Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3807

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   13.932620   72.699392   0.721174
0.004888   0.785464   187.109407
0.57746   13.932620   72.699392   0.721174
0.004888   0.483442   159.830403
0.71831   13.932620   72.699392   0.721174
0.004888   0.195630   140.440847
0.85915   13.932620   72.699392   0.721174
0.004888   0.100616   133.225336
1.00000   13.932620   72.699392   0.721174
0.004888   0.342793   128.942167

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -5.727237   -143.418202   -0.585590
-0.004640   -0.651562   -169.454189
0.57746   -5.727237   -143.418202   -0.585590
-0.004640   -0.405996   -115.535779
0.71831   -5.727237   -143.418202   -0.585590
-0.004640   -0.160400   -75.887937
0.85915   -5.727237   -143.418202   -0.585590
-0.004640   -0.122924   -37.441945
1.00000   -5.727237   -143.418202   -0.585590
-0.004640   -0.424888   -5.685493

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   12.104126   80.561461   0.824725
0.004303   0.903326   167.153279
0.57746   12.104126   80.561461   0.824725
0.004303   0.557802   138.521633
0.71831   12.104126   80.561461   0.824725
0.004303   0.223996   119.876111
0.85915   12.104126   80.561461   0.824725
0.004303   0.115985   111.871922
1.00000   12.104126   80.561461   0.824725
0.004303   0.409865   108.638613

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -7.962721   -120.320960   -0.707418
-0.004198   -0.786786   -142.944538
0.57746   -7.962721   -120.320960   -0.707418
-0.004198   -0.490124   -103.033233
0.71831   -7.962721   -120.320960   -0.707418
-0.004198   -0.193431   -76.123560
0.85915   -7.962721   -120.320960   -0.707418
-0.004198   -0.135110   -51.139193
1.00000   -7.962721   -120.320960   -0.707418
-0.004198   -0.480622   -32.542199

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   0.227907   31.245489   0.734187
0.000224   0.815257   1.880951
0.57746   0.227907   31.245489   0.734187
0.000224   0.507264   2.472287
0.71831   0.227907   31.245489   0.734187
0.000224   0.198962   3.226381
0.85915   0.227907   31.245489   0.734187
0.000224   0.093422   4.151053
1.00000   0.227907   31.245489   0.734187
0.000224   0.361784   5.098415

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -6.013047   -2.932885   -0.639660
-0.000401   -0.711082   -20.565530
0.57746   -6.013047   -2.932885   -0.639660
-0.000401   -0.442802   -33.166228
0.71831   -6.013047   -2.932885   -0.639660
-0.000401   -0.174402   -45.901157
0.85915   -6.013047   -2.932885   -0.639660
-0.000401   -0.107393   -58.647741
1.00000   -6.013047   -2.932885   -0.639660
-0.000401   -0.415832   -71.487737
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3808

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   1.245906   62.946434   1.135906
0.000630   1.262003   37.715988
0.57746   1.245906   62.946434   1.135906
0.000630   0.785403   27.971789
0.71831   1.245906   62.946434   1.135906
0.000630   0.308846   19.343173
0.85915   1.245906   62.946434   1.135906
0.000630   0.156552   12.156346
1.00000   1.245906   62.946434   1.135906
0.000630   0.602265   10.746333

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -9.368518   -5.330130   -1.062498
-0.000873   -1.180029   -21.607811
0.57746   -9.368518   -5.330130   -1.062498
-0.000873   -0.734484   -36.281621
0.71831   -9.368518   -5.330130   -1.062498
-0.000873   -0.288852   -53.211528
0.85915   -9.368518   -5.330130   -1.062498
-0.000873   -0.165037   -72.196035
1.00000   -9.368518   -5.330130   -1.062498
-0.000873   -0.642346   -93.988047

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   1.484153   106.733187   1.245342
0.000387   1.383808   189.248704
0.57746   1.484153   106.733187   1.245342
0.000387   0.861420   159.789831
0.71831   1.484153   106.733187   1.245342
0.000387   0.338850   131.084560
0.85915   1.484153   106.733187   1.245342
0.000387   0.164073   103.310509
1.00000   1.484153   106.733187   1.245342
0.000387   0.634879   79.665705

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -11.688986   -4.956247   -1.120714
-0.000592   -1.245732   -19.265353
0.57746   -11.688986   -4.956247   -1.120714
-0.000592   -0.775906   -32.912764
0.71831   -11.688986   -4.956247   -1.120714
-0.000592   -0.305454   -48.305867
0.85915   -11.688986   -4.956247   -1.120714
-0.000592   -0.179653   -64.511128
1.00000   -11.688986   -4.956247   -1.120714
-0.000592   -0.703048   -83.203271

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   7.030766   91.889616   1.345258
0.003419   1.482438   177.064712
0.57746   7.030766   91.889616   1.345258
0.003419   0.919028   154.042968
0.71831   7.030766   91.889616   1.345258
0.003419   0.364992   138.921262
0.85915   7.030766   91.889616   1.345258
0.003419   0.186181   137.544988
1.00000   7.030766   91.889616   1.345258
0.003419   0.683519   149.096605

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -10.130954   -81.591959   -1.186307
-0.003400   -1.311286   -73.085842
0.57746   -10.130954   -81.591959   -1.186307
-0.003400   -0.816315   -54.623860
0.71831   -10.130954   -81.591959   -1.186307
-0.003400   -0.323161   -50.541065
0.85915   -10.130954   -81.591959   -1.186307
-0.003400   -0.208894   -54.774629
1.00000   -10.130954   -81.591959   -1.186307
-0.003400   -0.773172   -70.775309
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3809

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   1.193054   40.863097   0.385660
0.000313   0.428937   78.262065
0.57746   1.193054   40.863097   0.385660
0.000313   0.267036   61.401141
0.71831   1.193054   40.863097   0.385660
0.000313   0.105056   45.064543
0.85915   1.193054   40.863097   0.385660
0.000313   0.060672   29.630904
1.00000   1.193054   40.863097   0.385660
0.000313   0.231525   18.262635

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -3.889563   -0.930209   -0.407598
-0.000362   -0.452225   -2.429259
0.57746   -3.889563   -0.930209   -0.407598
-0.000362   -0.281170   -2.383096
0.71831   -3.889563   -0.930209   -0.407598
-0.000362   -0.110186   -3.908629
0.85915   -3.889563   -0.930209   -0.407598
-0.000362   -0.055128   -6.107063
1.00000   -3.889563   -0.930209   -0.407598
-0.000362   -0.216965   -10.679039

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   4.731783   82.370357   0.652171
0.004436   0.705608   228.180918
0.57746   4.731783   82.370357   0.652171
0.004436   0.433342   196.537939
0.71831   4.731783   82.370357   0.652171
0.004436   0.161225   174.681827
0.85915   4.731783   82.370357   0.652171
0.004436   0.103862   164.532224
1.00000   4.731783   82.370357   0.652171
0.004436   0.343590   158.153506

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -6.332255   -52.856464   -0.571444
-0.004421   -0.622555   -21.654923
0.57746   -6.332255   -52.856464   -0.571444
-0.004421   -0.386873   -1.555742
0.71831   -6.332255   -52.856464   -0.571444
-0.004421   -0.153746   -3.101619
0.85915   -6.332255   -52.856464   -0.571444
-0.004421   -0.113821   -5.384739
1.00000   -6.332255   -52.856464   -0.571444
-0.004421   -0.387199   -9.945401

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   4.619373   100.169080   1.116795
0.004211   1.223958   205.171686
0.57746   4.619373   100.169080   1.116795
0.004211   0.756533   176.030612
0.71831   4.619373   100.169080   1.116795
0.004211   0.302440   158.213032
0.85915   4.619373   100.169080   1.116795
0.004211   0.165396   150.848302
1.00000   4.619373   100.169080   1.116795
0.004211   0.586528   145.951996

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -9.796608   -49.801541   -1.004348
-0.004324   -0.104964   -25.018200
0.57746   -9.796608   -49.801541   -1.004348
-0.004324   -0.687358   -18.095547
0.71831   -9.796608   -49.801541   -1.004348
-0.004324   -0.272022   -30.019490
0.85915   -9.796608   -49.801541   -1.004348
-0.004324   -0.176956   -43.372395
1.00000   -9.796608   -49.801541   -1.004348
-0.004324   -0.647893   -58.217911
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3810

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   9.049813   85.203466   1.295580
0.003048   1.430001   171.651139
0.57746   9.049813   85.203466   1.295580
0.003048   0.887285   146.825414
0.71831   9.049813   85.203466   1.295580
0.003048   0.352674   129.958519
0.85915   9.049813   85.203466   1.295580
0.003048   0.181582   121.895988
1.00000   9.049813   85.203466   1.295580
0.003048   0.671858   135.436741

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -8.403408   -97.472586   -1.170982
-0.003023   -1.296262   -100.565409
0.57746   -8.403408   -97.472586   -1.170982
-0.003023   -0.807448   -71.402126
0.71831   -8.403408   -97.472586   -1.170982
-0.003023   -0.319781   -54.642449
0.85915   -8.403408   -97.472586   -1.170982
-0.003023   -0.199724   -41.012877
1.00000   -8.403408   -97.472586   -1.170982
-0.003023   -0.742199   -50.941680

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   8.710579   4.126450   0.623036
0.000578   0.693491   6.032817
0.57746   8.710579   4.126450   0.623036
0.000578   0.432299   5.382452
0.71831   8.710579   4.126450   0.623036
0.000578   0.171356   4.767067
0.85915   8.710579   4.126450   0.623036
0.000578   0.083473   4.168377
1.00000   8.710579   4.126450   0.623036
0.000578   0.326848   3.564932

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -0.304061   -84.515183   -0.582978
-0.000358   -0.650605   -153.863644
0.57746   -0.304061   -84.515183   -0.582978
-0.000358   -0.406087   -119.207076
0.71831   -0.304061   -84.515183   -0.582978
-0.000358   -0.161765   -84.579964
0.85915   -0.304061   -84.515183   -0.582978
-0.000358   -0.092229   -49.952997
1.00000   -0.304061   -84.515183   -0.582978
-0.000358   -0.351970   -15.333656

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   14.675542   24.207781   0.928600
0.006572   1.005928   89.606818
0.57746   14.675542   24.207781   0.928600
0.006572   0.618318   84.246102
0.71831   14.675542   24.207781   0.928600
0.006572   0.251548   92.442156
0.85915   14.675542   24.207781   0.928600
0.006572   0.143015   116.311863
1.00000   14.675542   24.207781   0.928600
0.006572   0.475741   140.457309

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -1.533254   -171.765762   -0.798984
-0.006298   -0.873273   -193.783497
0.57746   -1.533254   -171.765762   -0.798984
-0.006298   -0.543232   -126.321666
0.71831   -1.533254   -171.765762   -0.798984
-0.006298   -0.218426   -84.766640
0.85915   -1.533254   -171.765762   -0.798984
-0.006298   -0.166122   -44.905368
1.00000   -1.533254   -171.765762   -0.798984
-0.006298   -0.553340   -6.224652
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3811

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   13.183792   64.400280   1.090023
0.005012   1.192778   188.810117
0.57746   13.183792   64.400280   1.090023
0.005012   0.736724   165.452207
0.71831   13.183792   64.400280   1.090023
0.005012   0.296109   151.893900
0.85915   13.183792   64.400280   1.090023
0.005012   0.159718   149.671988
1.00000   13.183792   64.400280   1.090023
0.005012   0.563165   148.606885

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -4.834342   -142.962225   -0.964900
-0.004768   -1.062545   -171.062672
0.57746   -4.834342   -142.962225   -0.964900
-0.004768   -0.661792   -114.653116
0.71831   -4.834342   -142.962225   -0.964900
-0.004768   -0.264406   -76.920229
0.85915   -4.834342   -142.962225   -0.964900
-0.004768   -0.180134   -40.401535
1.00000   -4.834342   -142.962225   -0.964900
-0.004768   -0.635512   -6.323302

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   11.641581   77.852697   1.304373
0.004369   1.434491   169.867770
0.57746   11.641581   77.852697   1.304373
0.004369   0.888319   143.627316
0.71831   11.641581   77.852697   1.304373
0.004369   0.354821   130.011686
0.85915   11.641581   77.852697   1.304373
0.004369   0.190924   126.248130
1.00000   11.641581   77.852697   1.304373
0.004369   0.691900   125.681867

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -7.104896   -120.322039   -1.196770
-0.004246   -1.321501   -144.678606
0.57746   -7.104896   -120.322039   -1.196770
-0.004246   -0.822897   -101.907240
0.71831   -7.104896   -120.322039   -1.196770
-0.004246   -0.326854   -78.272584
0.85915   -7.104896   -120.322039   -1.196770
-0.004246   -0.207088   -55.982390
1.00000   -7.104896   -120.322039   -1.196770
-0.004246   -0.752947   -37.086886

COMB      DB ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.43662   15.865036   103.652317   0.824725
0.006651   0.903326   219.313076
0.57746   15.865036   103.652317   0.824725
0.006651   0.557802   185.411086
0.71831   15.865036   103.652317   0.824725
0.006651   0.223996   160.979066
0.85915   15.865036   103.652317   0.824725
0.006651   0.115985   151.762995
1.00000   15.865036   103.652317   0.824725
0.006651   0.409865   146.058834

COMB      DB ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.43662   -12.078946   -174.637330   -0.707418
-0.006373   -0.786786   -191.308825
0.57746   -12.078946   -174.637330   -0.707418
-0.006373   -0.490124   -126.879167
0.71831   -12.078946   -174.637330   -0.707418
-0.006373   -0.193431   -83.154698
0.85915   -12.078946   -174.637330   -0.707418
-0.006373   -0.135110   -61.538854
1.00000   -12.078946   -174.637330   -0.707418
-0.006373   -0.480622   -78.945628
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<          MOVING          LOAD          >
                    3812

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S
```

```
COMB       DL ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43662   14.675542  106.733187   1.345258
 0.006572   1.482438  228.180918
0.57746   14.675542  106.733187   1.345258
 0.006572   0.919028  196.537939
0.71831   14.675542  106.733187   1.345258
 0.006572   0.364992  174.681527
0.85915   14.675542  106.733187   1.345258
 0.006572   0.190924  164.532224
1.00000   14.675542  106.733187   1.345258
 0.006572   0.691900  158.153506

COMB       DL ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43662  -11.688986 -171.765762  -1.196770
-0.006298  -1.321501 -193.783497
0.57746  -11.688986 -171.765762  -1.196770
-0.006298  -0.822897 -126.321666
0.71831  -11.688986 -171.765762  -1.196770
-0.006298  -0.326854  -84.766640
0.85915  -11.688986 -171.765762  -1.196770
-0.006298  -0.208894  -72.196035
1.00000  -11.688986 -171.765762  -1.196770
-0.006298  -0.773172  -93.988047

COMB       CAR ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43662   15.865036  106.733187   1.345258
 0.006651   1.482438  228.180918
0.57746   15.865036  106.733187   1.345258
 0.006651   0.919028  196.537939
0.71831   15.865036  106.733187   1.345258
 0.006651   0.364992  174.681527
0.85915   15.865036  106.733187   1.345258
 0.006651   0.190924  164.532224
1.00000   15.865036  106.733187   1.345258
 0.006651   0.691900  158.153506

COMB       CAR ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43662  -12.078946 -174.637330  -1.196770
-0.006373  -1.321501 -193.783497
0.57746  -12.078946 -174.637330  -1.196770
-0.006373  -0.822897 -126.879167
0.71831  -12.078946 -174.637330  -1.196770
-0.006373  -0.326854  -84.766640
0.85915  -12.078946 -174.637330  -1.196770
-0.006373  -0.208894  -72.196035
1.00000  -12.078946 -174.637330  -1.196770
-0.006373  -0.773172  -93.988047

COMB   DESIGN ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43662   15.865036  106.733187   1.345258
 0.006651   1.482438  228.180918
0.57746   15.865036  106.733187   1.345258
 0.006651   0.919028  196.537939
0.71831   15.865036  106.733187   1.345258
 0.006651   0.364992  174.681527
0.85915   15.865036  106.733187   1.345258
 0.006651   0.190924  164.532224
1.00000   15.865036  106.733187   1.345258
 0.006651   0.691900  158.153506

COMB   DESIGN ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43662  -12.078946 -174.637330  -1.196770
-0.006373  -1.321501 -193.783497
0.57746  -12.078946 -174.637330  -1.196770
-0.006373  -0.822897 -126.879167
0.71831  -12.078946 -174.637330  -1.196770
-0.006373  -0.326854  -84.766640
0.85915  -12.078946 -174.637330  -1.196770
-0.006373  -0.208894  -72.196035
1.00000  -12.078946 -174.637330  -1.196770
-0.006373  -0.773172  -93.988047
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3813

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM       365 ========== LENGTH =   2.977536

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   0.176953   23.978158   0.377753
 1.20E-05   0.211025   3.787815
0.14085   0.176953   23.978158   0.377753
 1.20E-05   0.052494   4.635809
0.28170   0.176953   23.978158   0.377753
 1.20E-05   0.103436   5.537726
0.42255   0.176953   23.978158   0.377753
 1.20E-05   0.258237   6.486506
0.56340   0.176953   23.978158   0.377753
 1.20E-05   0.413022   7.446368

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.239606  -2.302283  -0.369078
-0.000211  -0.206146  -57.936288
0.14085   -5.239606  -2.302283  -0.369078
-0.000211  -0.051266  -67.889546
0.28170   -5.239606  -2.302283  -0.369078
-0.000211  -0.105639  -77.864454
0.42255   -5.239606  -2.302283  -0.369078
-0.000211  -0.264246  -87.839760
0.56340   -5.239606  -2.302283  -0.369078
-0.000211  -0.422668  -97.844357

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   0.985170   53.879379   0.604715
 0.000316   0.338879   9.662587
0.14085   0.985170   53.879379   0.604715
 0.000316   0.085159   9.430200
0.28170   0.985170   53.879379   0.604715
 0.000316   0.165070   9.211663
0.42255   0.985170   53.879379   0.604715
 0.000316   0.412649   9.924932
0.56340   0.985170   53.879379   0.604715
 0.000316   0.660214   11.197830

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -9.125889  -3.430124  -0.590314
-0.000645  -0.330796  -78.985374
0.14085   -9.125889  -3.430124  -0.590314
-0.000645  -0.083225  -98.660711
0.28170   -9.125889  -3.430124  -0.590314
-0.000645  -0.168978  -119.096352
0.42255   -9.125889  -3.430124  -0.590314
-0.000645  -0.421976  -139.735312
0.56340   -9.125889  -3.430124  -0.590314
-0.000645  -0.675554  -161.388601

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   1.124013   102.752429   0.675577
 0.000473   0.375937   62.106868
0.14085   1.124013   102.752429   0.675577
 0.000473   0.092755   39.320106
0.28170   1.124013   102.752429   0.675577
 0.000473   0.167877   33.067769
0.42255   1.124013   102.752429   0.675577
 0.000473   0.420479   31.120476
0.56340   1.124013   102.752429   0.675577
 0.000473   0.673075   30.589078

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -11.910651  -3.476660  -0.602302
-0.000771  -0.337343  -69.622883
0.14085  -11.910651  -3.476660  -0.602302
-0.000771  -0.084681  -84.299646
0.28170  -11.910651  -3.476660  -0.602302
-0.000771  -0.191062  -99.608488
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3814

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.42255  -11.910651  -3.476660  -0.602302
-0.000771  -0.474248 -137.701501
0.56340  -11.910651  -3.476660  -0.602302
-0.000771  -0.757577 -180.555014

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   5.394655  122.949041   0.761576
 0.004057   0.439219  136.581492
0.14085   5.394655  122.949041   0.761576
 0.004057   0.120426  121.250134
0.28170   5.394655  122.949041   0.761576
 0.004057   0.184897  119.607844
0.42255   5.394655  122.949041   0.761576
 0.004057   0.463087  130.464283
0.56340   5.394655  122.949041   0.761576
 0.004057   0.741274  148.340548

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -12.002475  -53.501911  -0.663313
-0.004204  -0.385650  -59.310425
0.14085  -12.002475  -53.501911  -0.663313
-0.004204  -0.108560  -71.928512
0.28170  -12.002475  -53.501911  -0.663313
-0.004204  -0.213141  -85.246802
0.42255  -12.002475  -53.501911  -0.663313
-0.004204  -0.520065  -117.331294
0.56340  -12.002475  -53.501911  -0.663313
-0.004204  -0.838879  -160.781262

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   1.036551   41.680755   0.205650
 0.000258   0.115376   15.140451
0.14085   1.036551   41.680755   0.205650
 0.000258   0.029130   9.228021
0.28170   1.036551   41.680755   0.205650
 0.000258   0.056030   7.476725
0.42255   1.036551   41.680755   0.205650
 0.000258   0.140814   6.823691
0.56340   1.036551   41.680755   0.205650
 0.000258   0.225577   6.499128

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.558569  -1.003172  -0.202122
-0.000344  -0.113498  -10.681408
0.14085   -4.558569  -1.003172  -0.202122
-0.000344  -0.028682  -15.087061
0.28170   -4.558569  -1.003172  -0.202122
-0.000344  -0.057832  -29.948621
0.42255   -4.558569  -1.003172  -0.202122
-0.000344  -0.140278  -47.119719
0.56340   -4.558569  -1.003172  -0.202122
-0.000344  -0.229522  -63.817063

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   1.758229  135.071572   0.391206
 0.005339   0.237164  146.313407
0.14085   1.758229  135.071572   0.391206
 0.005339   0.074050  99.733033
0.28170   1.758229  135.071572   0.391206
 0.005339   0.076704  70.985018
0.42255   1.758229  135.071572   0.391206
 0.005339   0.191521  59.147835
0.56340   1.758229  135.071572   0.391206
 0.005339   0.306923  56.861951

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -9.675754  -9.283450  -0.275169
-0.005402  -0.174095  -10.218943
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3815

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.14085   -9.675754  -9.283450  -0.275169
-0.005402  -0.060237  -14.563312
0.28170   -9.675754  -9.283450  -0.275169
-0.005402  -0.109540  -41.886070
0.42255   -9.675754  -9.283450  -0.275169
-0.005402  -0.256525  -50.136388
0.56340   -9.675754  -9.283450  -0.275169
-0.005402  -0.419805  -95.705411

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   1.760993  141.719686   0.636826
 0.004814   0.372609  134.169629
0.14085   1.760993  141.719686   0.636826
 0.004814   0.106356  92.810452
0.28170   1.760993  141.719686   0.636826
 0.004814   0.146640  67.553527
0.42255   1.760993  141.719686   0.636826
 0.004814   0.367654  57.520038
0.56340   1.760993  141.719686   0.636826
 0.004814   0.588620  56.089495

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -12.589325  -9.936323  -0.526881
-0.005048  -0.312783  -50.111133
0.14085  -12.589325  -9.936323  -0.526881
-0.005048  -0.093145  -62.263035
0.28170  -12.589325  -9.936323  -0.526881
-0.005048  -0.176253  -75.472377
0.42255  -12.589325  -9.936323  -0.526881
-0.005048  -0.429949  -111.359006
0.56340  -12.589325  -9.936323  -0.526881
-0.005048  -0.696321  -160.716119

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   7.919240  111.945654   0.763584
 0.003585   0.437783  122.529159
0.14085   7.919240  111.945654   0.763584
 0.003585   0.118034  119.147175
0.28170   7.919240  111.945654   0.763584
 0.003585   0.186690  129.728756
0.42255   7.919240  111.945654   0.763584
 0.003585   0.468084  151.128363
0.56340   7.919240  111.945654   0.763584
 0.003585   0.749489  178.453348

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -10.324413  -74.780168  -0.670929
-0.003698  -0.387493  -43.808549
0.14085  -10.324413  -74.780168  -0.670929
-0.003698  -0.106972  -54.426695
0.28170  -10.324413  -74.780168  -0.670929
-0.003698  -0.213698  -65.792681
0.42255  -10.324413  -74.780168  -0.670929
-0.003698  -0.523828  -96.244583
0.56340  -10.324413  -74.780168  -0.670929
-0.003698  -0.843602  -136.515838

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   9.588375   3.805028   0.416294
 0.000685   0.233379   2.916984
0.14085   9.588375   3.805028   0.416294
 0.000685   0.058777   27.097425
0.28170   9.588375   3.805028   0.416294
 0.000685   0.112029   62.058900
0.42255   9.588375   3.805028   0.416294
 0.000685   0.281062   97.300131
0.56340   9.588375   3.805028   0.416294
 0.000685   0.450075   132.653654
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3816

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -9.293910  -84.479400  -0.403001
-0.000534  -0.225999  -10.220438
0.14085   -9.293910  -84.479400  -0.403001
-0.000534  -0.056899  -4.672622
0.28170   -9.293910  -84.479400  -0.403001
-0.000534  -0.115818  -5.466677
0.42255   -9.293910  -84.479400  -0.403001
-0.000534  -0.290389  -6.414272
0.56340   -9.293910  -84.479400  -0.403001
-0.000534  -0.464975  -7.728009

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  11.941264  84.370456   0.614916
 0.006707   0.368727  128.460419
0.14085  11.941264  84.370456   0.614916
 0.006707   0.111758  137.360355
0.28170  11.941264  84.370456   0.614916
 0.006707   0.345571  150.501532
0.42255  11.941264  84.370456   0.614916
 0.006707   0.364981  181.334305
0.56340  11.941264  84.370456   0.614916
 0.006707   0.584346  222.786446

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.566228 -112.241008  -0.523056
-0.006498  -0.316706  -5.002775
0.14085   -4.566228 -112.241008  -0.523056
-0.006498  -0.099211  -15.293755
0.28170   -4.566228 -112.241008  -0.523056
-0.006498  -0.169275  -7.631932
0.42255   -4.566228 -112.241008  -0.523056
-0.006498  -0.406522  -10.829510
0.56340   -4.566228 -112.241008  -0.523056
-0.006498  -0.663446  -30.791720

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  11.276876  111.583812   0.691426
 0.005075   0.402361  129.102143
0.14085  11.276876  111.583812   0.691426
 0.005075   0.113227  127.124877
0.28170  11.276876  111.583812   0.691426
 0.005075   0.160963  141.603517
0.42255  11.276876  111.583812   0.691426
 0.005075   0.404395  170.471171
0.56340  11.276876  111.583812   0.691426
 0.005075   0.647796  207.400385

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -7.618876 -100.774619  -0.580389
-0.004925  -0.342035  -5.672763
0.14085   -7.618876 -100.774619  -0.580389
-0.004925  -0.099845  -6.989155
0.28170   -7.618876 -100.774619  -0.580389
-0.004925  -0.193166  -9.485643
0.42255   -7.618876 -100.774619  -0.580389
-0.004925  -0.466826  -34.918521
0.56340   -7.618876 -100.774619  -0.580389
-0.004925  -0.758139  -72.638156

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   9.912529  112.497500   0.795473
 0.004243   0.457872  108.775811
0.14085   9.912529  112.497500   0.795473
 0.004243   0.124887  107.709637
0.28170   9.912529  112.497500   0.795473
 0.004243   0.194090  120.295389
0.42255   9.912529  112.497500   0.795473
 0.004243   0.486925  144.856479
0.56340   9.912529  112.497500   0.795473
 0.004243   0.779737  176.111792
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3817

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -9.490116  -85.050013  -0.698196
-0.004275  -0.404927  -32.548659
0.14085   -9.490116  -85.050013  -0.698196
-0.004275  -0.113112  -41.488561
0.28170   -9.490116  -85.050013  -0.698196
-0.004275  -0.222175  -51.196086
0.42255   -9.490116  -85.050013  -0.698196
-0.004275  -0.544000  -79.759520
0.56340   -9.490116  -85.050013  -0.698196
-0.004275  -0.877066  -119.146798

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   0.225157   31.117081   0.712304
 8.66E-06   0.396965   5.107796
0.14085   0.225157   31.117081   0.712304
 8.66E-06   0.097523   6.185061
0.28170   0.225157   31.117081   0.712304
 8.66E-06   0.175112   7.351364
0.42255   0.225157   31.117081   0.712304
 8.66E-06   0.437780   8.542378
0.56340   0.225157   31.117081   0.712304
 8.66E-06   0.700329   9.750325

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.955002  -2.886908  -0.625956
-0.000182  -0.349571  -71.518084
0.14085   -5.955002  -2.886908  -0.625956
-0.000182  -0.086940  -84.416881
0.28170   -5.955002  -2.886908  -0.625956
-0.000182  -0.199354  -97.390243
0.42255   -5.955002  -2.886908  -0.625956
-0.000182  -0.498584  -110.397936
0.56340   -5.955002  -2.886908  -0.625956
-0.000182  -0.797437  -123.429098

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   1.174524   63.595712   1.109633
 0.000236   0.619918   10.759504
0.14085   1.174524   63.595712   1.109633
 0.000236   0.153442   10.570366
0.28170   1.174524   63.595712   1.109633
 0.000236   0.289297   11.313867
0.42255   1.174524   63.595712   1.109633
 0.000236   0.721421   12.583627
0.56340   1.174524   63.595712   1.109633
 0.000236   1.153513   14.126556

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -9.328420  -4.159689  -1.030434
-0.000503  -0.575125  -94.041031
0.14085   -9.328420  -4.159689  -1.030434
-0.000503  -0.142830  -117.756809
0.28170   -9.328420  -4.159689  -1.030434
-0.000503  -0.309176  -142.336530
0.42255   -9.328420  -4.159689  -1.030434
-0.000503  -0.774697  -167.926175
0.56340   -9.328420  -4.159689  -1.030434
-0.000503  -1.240250  -194.126003

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   1.491169  105.910601   1.208629
 0.000401   0.673751   79.638945
0.14085   1.491169  105.910601   1.208629
 0.000401   0.166267   59.385428
0.28170   1.491169  105.910601   1.208629
 0.000401   0.305272   45.826364
0.42255   1.491169  105.910601   1.208629
 0.000401   0.760587   40.305177
0.56340   1.491169  105.910601   1.208629
 0.000401   1.215379   38.449237
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3818

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -11.524600  -4.922495  -1.084893
-0.000642  -0.605261  -83.246981
0.14085   -11.524600  -4.922495  -1.084893
-0.000642  -0.149536  -102.252376
0.28170   -11.524600  -4.922495  -1.084893
-0.000642  -0.337504  -121.758654
0.42255   -11.524600  -4.922495  -1.084893
-0.000642  -0.844473  -159.526390
0.56340   -11.524600  -4.922495  -1.084893
-0.000642  -1.351505  -200.646951

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   5.332139  117.357974   1.314277
 0.003157   0.746551  149.070106
0.14085   5.332139  117.357974   1.314277
 0.003157   0.195345  139.917705
0.28170   5.332139  117.357974   1.314277
 0.003157   0.324240  136.233933
0.42255   5.332139  117.357974   1.314277
 0.003157   0.808434  145.391752
0.56340   5.332139  117.357974   1.314277
 0.003157   1.294421  162.549937

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -11.409792  -53.962827  -1.165910
-0.003300  -0.664850  -70.805945
0.14085   -11.409792  -53.962827  -1.165910
-0.003300  -0.175649  -87.102680
0.28170   -11.409792  -53.962827  -1.165910
-0.003300  -0.365172  -103.974405
0.42255   -11.409792  -53.962827  -1.165910
-0.003300  -0.906402  -135.761193
0.56340   -11.409792  -53.962827  -1.165910
-0.003300  -1.456662  -177.529600

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   1.194246   40.630364   0.376575
 0.000219   0.210630   18.246800
0.14085   1.194246   40.630364   0.376575
 0.000219   0.053029   9.991407
0.28170   1.194246   40.630364   0.376575
 0.000219   0.109541   7.071246
0.42255   1.194246   40.630364   0.376575
 0.000219   0.271382   5.977647
0.56340   1.194246   40.630364   0.376575
 0.000219   0.433403   5.528408

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -3.840976  -0.891011  -0.386053
-0.000281  -0.214396  -10.691148
0.14085   -3.840976  -0.891011  -0.386053
-0.000281  -0.052719  -16.035995
0.28170   -3.840976  -0.891011  -0.386053
-0.000281  -0.103989  -29.360288
0.42255   -3.840976  -0.891011  -0.386053
-0.000281  -0.262097  -45.018236
0.56340   -3.840976  -0.891011  -0.386053
-0.000281  -0.420218  -61.321390

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000   2.072558  121.510417   0.631616
 0.004572   0.371841  158.144358
0.14085   2.072558  121.510417   0.631616
 0.004572   0.107788  117.828317
```

0.28170 2.072558 121.510417 0.631616
0.004572 0.152867 84.657249
0.42255 2.072558 121.510417 0.631616
0.004572 0.376351 70.053859
0.56340 2.072558 121.510417 0.631616
0.004572 0.602510 66.796429
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3819

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.381613 -10.154184 -0.550417
-0.004608 -0.326828 -9.952341
0.14085 -8.381613 -10.154184 -0.550417
-0.004608 -0.096283 -14.909762
0.28170 -8.381613 -10.154184 -0.550417
-0.004608 -0.171331 -21.568290
0.42255 -8.381613 -10.154184 -0.550417
-0.004608 -0.423109 -47.515279
0.56340 -8.381613 -10.154184 -0.550417
-0.004608 -0.686359 -87.889891

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.214471 135.470360 1.088582
0.004125 0.625463 145.950666
0.14085 2.214471 135.470360 1.088582
0.004125 0.169286 110.289176
0.28170 2.214471 135.470360 1.088582
0.004125 0.271711 81.106573
0.42255 2.214471 135.470360 1.088582
0.004125 0.673814 68.795390
0.56340 2.214471 135.470360 1.088582
0.004125 1.078306 66.705260

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.606482 -11.148342 -0.974560
-0.004321 -0.561856 -58.249310
0.14085 -11.606482 -11.148342 -0.974560
-0.004321 -0.153259 -73.317553
0.28170 -11.606482 -11.148342 -0.974560
-0.004321 -0.301083 -90.193890
0.42255 -11.606482 -11.148342 -0.974560
-0.004321 -0.743832 -124.321062
0.56340 -11.606482 -11.148342 -0.974560
-0.004321 -1.198912 -171.448189

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.667423 106.298280 1.274418
0.002856 0.723289 135.389923
0.14085 7.667423 106.298280 1.274418
0.002856 0.189113 136.933714
0.28170 7.667423 106.298280 1.274418
0.002856 0.321367 143.992487
0.42255 7.667423 106.298280 1.274418
0.002856 0.803454 163.262614
0.56340 7.667423 106.298280 1.274418
0.002856 1.286531 189.559745

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.454249 -74.708561 -1.158172
-0.002941 -0.659098 -50.961610
0.14085 -9.454249 -74.708561 -1.158172
-0.002941 -0.173327 -64.128565
0.28170 -9.454249 -74.708561 -1.158172
-0.002941 -0.353392 -76.610285
0.42255 -9.454249 -74.708561 -1.158172
-0.002941 -0.879567 -107.896208
0.56340 -9.454249 -74.708561 -1.158172
-0.002941 -1.413180 -145.803926

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.781805 4.130057 0.627866
0.000586 0.352619 3.561441
0.14085 8.781805 4.130057 0.627866
0.000586 0.089716 26.804567
0.28170 8.781805 4.130057 0.627866
0.000586 0.164547 61.615102
0.42255 8.781805 4.130057 0.627866
0.000586 0.416817 96.826459
0.56340 8.781805 4.130057 0.627866
0.000586 0.669180 132.238968
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3820

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.291901 -84.893164 -0.601437
-0.000432 -15.338831 -15.377411
0.14085 -0.291901 -84.893164 -0.601437
-0.000432 -0.086482 -6.146865
0.28170 -0.291901 -84.893164 -0.601437
-0.000432 -0.174249 -6.948488
0.42255 -0.291901 -84.893164 -0.601437
-0.000432 -0.437500 -8.085273
0.56340 -0.291901 -84.893164 -0.601437
-0.000432 -0.700774 -9.641442

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.979811 80.524986 0.928137
0.006565 0.548486 140.463084
0.14085 10.979811 80.524986 0.928137
0.006565 0.160653 150.862159
0.28170 10.979811 80.524986 0.928137
0.006565 0.221635 164.614319
0.42255 10.979811 80.524986 0.928137
0.006565 0.555654 192.786605
0.56340 10.979811 80.524986 0.928137
0.006565 0.894705 233.266766

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.562363 -111.693420 -0.822509
-0.006386 -0.490800 -6.637045
0.14085 -4.562363 -111.693420 -0.822509
-0.006386 -0.146645 -7.511548
0.28170 -4.562363 -111.693420 -0.822509
-0.006386 -0.254658 -9.109846
0.42255 -4.562363 -111.693420 -0.822509
-0.006386 -0.622279 -12.540496
0.56340 -4.562363 -111.693420 -0.822509
-0.006386 -1.009248 -34.835494

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.542822 104.691596 1.078218
0.005101 0.623598 148.555271
0.14085 10.542822 104.691596 1.078218
0.005101 0.172789 148.161870
0.28170 10.542822 104.691596 1.078218
0.005101 0.266665 154.449617
0.42255 10.542822 104.691596 1.078218
0.005101 0.666433 178.571618
0.56340 10.542822 104.691596 1.078218
0.005101 1.069687 213.540999

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.949221 -99.782842 -0.972217
-0.004957 -0.566171 -6.315186
0.14085 -6.949221 -99.782842 -0.972217
-0.004957 -0.158547 -7.399083
0.28170 -6.949221 -99.782842 -0.972217
-0.004957 -0.297311 -11.548761
0.42255 -6.949221 -99.782842 -0.972217
-0.004957 -0.733741 -31.470209
0.56340 -6.949221 -99.782842 -0.972217
-0.004957 -1.184423 -65.299937

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.451021 111.117029 1.288348
0.004266 0.737699 125.645841
0.14085 9.451021 111.117029 1.288348
0.004266 0.198188 126.047988
0.28170 9.451021 111.117029 1.288348
0.004266 0.328779 131.962337
0.42255 9.451021 111.117029 1.288348
0.004266 0.821039 152.632226
0.56340 9.451021 111.117029 1.288348
0.004266 1.315900 182.322547
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3821

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.823860 -84.486397 -1.189078
-0.004269 -0.682920 -37.103681
0.14085 -8.823860 -84.486397 -1.189078
-0.004269 -0.184268 -47.670387
0.28170 -8.823860 -84.486397 -1.189078
-0.004269 -0.355992 -60.563640
0.42255 -8.823860 -84.486397 -1.189078
-0.004269 -0.883364 -86.901966
0.56340 -8.823860 -84.486397 -1.189078
-0.004269 -1.422520 -124.931407

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.941264 141.719686 0.795473
0.006707 0.457872 146.313407
0.14085 11.941264 141.719686 0.795473
0.006707 0.124887 137.360355
0.28170 11.941264 141.719686 0.795473
0.006707 0.194090 150.501532
0.42255 11.941264 141.719686 0.795473
0.006707 0.486325 191.334305
0.56340 11.941264 141.719686 0.795473
0.006707 0.779737 222.786446

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.589325 -112.241008 -0.698196
-0.006498 -0.404927 -78.985374
0.14085 -12.589325 -112.241008 -0.698196
-0.006498 -0.113112 -98.660711
0.28170 -12.589325 -112.241008 -0.698196
-0.006498 -0.222175 -119.096352
0.42255 -12.589325 -112.241008 -0.698196
-0.006498 -0.544000 -139.735312
0.56340 -12.589325 -112.241008 -0.698196
-0.006498 -0.877066 -180.555014

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.979811 135.470360 1.314277
0.006565 0.746551 158.144358
0.14085 10.979811 135.470360 1.314277
0.006565 0.198188 150.862159
0.28170 10.979811 135.470360 1.314277
0.006565 0.328779 164.614319
0.42255 10.979811 135.470360 1.314277
0.006565 0.821039 192.786605
0.56340 10.979811 135.470360 1.314277
0.006565 1.315900 233.266766

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.606482 -111.693420 -1.189078
-0.006386 -0.682920 -94.041031
0.14085 -11.606482 -111.693420 -1.189078
-0.006386 -0.184268 -117.756809
0.28170 -11.606482 -111.693420 -1.189078
-0.006386 -0.365172 -142.336530
0.42255 -11.606482 -111.693420 -1.189078
-0.006386 -0.906402 -167.926175
0.56340 -11.606482 -111.693420 -1.189078
-0.006386 -1.456662 -200.646951

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.941264 141.719686 1.314277
0.006707 0.746551 158.144358
0.14085 11.941264 141.719686 1.314277
0.006707 0.198188 150.862159
0.28170 11.941264 141.719686 1.314277
0.006707 0.328779 164.614319
0.42255 11.941264 141.719686 1.314277
0.006707 0.821039 192.786605
0.56340 11.941264 141.719686 1.314277
0.006707 1.315900 233.266766
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3822

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.589325 -112.241008 -1.189078
-0.006498 -0.682920 -94.041031
0.14085 -12.589325 -112.241008 -1.189078
-0.006498 -0.184268 -117.756809
0.28170 -12.589325 -112.241008 -1.189078
-0.006498 -0.365172 -142.336530
0.42255 -12.589325 -112.241008 -1.189078
-0.006498 -0.906402 -167.926175
0.56340 -12.589325 -112.241008 -1.189078
-0.006498 -1.456662 -200.646951

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.941264 141.719686 1.314277
0.006707 0.746551 158.144358
0.14085 11.941264 141.719686 1.314277
0.006707 0.198188 150.862159
0.28170 11.941264 141.719686 1.314277
0.006707 0.328779 164.614319
0.42255 11.941264 141.719686 1.314277
0.006707 0.821039 192.786605
0.56340 11.941264 141.719686 1.314277
0.006707 1.315900 233.266766

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -12.589325 -112.241008 -1.189078
-0.006498 -0.682920 -94.041031
0.14085 -12.589325 -112.241008 -1.189078
-0.006498 -0.184268 -117.756809
0.28170 -12.589325 -112.241008 -1.189078
-0.006498 -0.365172 -142.336530
0.42255 -12.589325 -112.241008 -1.189078
-0.006498 -0.906402 -167.926175
0.56340 -12.589325 -112.241008 -1.189078
-0.006498 -1.456662 -200.646951

ELEM 366 ========== LENGTH = 2.978143

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 0.214001 23.583322 0.411834
1.45E-05 0.456955 1.710661
0.57739 0.214001 23.583322 0.411834
1.45E-05 0.284476 1.724955
0.71826 0.214001 23.583322 0.411834
1.45E-05 0.111420 1.846639
0.85913 0.214001 23.583322 0.411834
1.45E-05 0.056459 2.032517
1.00000 0.214001 23.583322 0.411834
1.45E-05 0.216640 2.366242

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -4.888987 -1.352473 -0.381576
-0.000848 -0.423703 -16.812731
0.57739 -4.888987 -1.352473 -0.381576
-0.000848 -0.263618 -26.120087
0.71826 -4.888987 -1.352473 -0.381576
-0.000848 -0.103518 -35.477615
0.85913 -4.888987 -1.352473 -0.381576
-0.000848 -0.061371 -44.897991
1.00000 -4.888987 -1.352473 -0.381576
-0.000848 -0.234164 -54.372854

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 0.752342 52.654383 0.704260
0.000346 0.782249 34.790162
0.57739 0.752342 52.654383 0.704260
0.000346 0.486810 25.122100
0.71826 0.752342 52.654383 0.704260
0.000346 0.192000 17.001599
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3823

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.85913 0.752342 52.654383 0.704260
0.000346 0.090154 10.057482
1.00000 0.752342 52.654383 0.704260
0.000346 0.344718 7.949412

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -8.884559 -4.075065 -0.607722
-0.001650 -0.675208 -18.701049
0.57739 -8.884559 -4.075065 -0.607722
-0.001650 -0.420253 -29.795091
0.71826 -8.884559 -4.075065 -0.607722
-0.001650 -0.165280 -42.707824
0.85913 -8.884559 -4.075065 -0.607722
-0.001650 -0.104146 -58.156275
1.00000 -8.884559 -4.075065 -0.607722
-0.001650 -0.399629 -75.231883

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 0.855984 104.919347 0.926809
0.000201 1.030954 184.000211
0.57739 0.855984 104.919347 0.926809
0.000201 0.642126 151.288813
0.71826 0.855984 104.919347 0.926809
0.000201 0.252301 119.448804
0.85913 0.855984 104.919347 0.926809
0.000201 0.096081 88.045628
1.00000 0.855984 104.919347 0.926809
0.000201 0.371811 59.325193

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -11.943717 -2.438587 -0.656694
-0.001278 -0.730159 -15.679495
0.57739 -11.943717 -2.438587 -0.656694
-0.001278 -0.454630 -26.471526
0.71826 -11.943717 -2.438587 -0.656694
-0.001278 -0.179086 -38.086404
0.85913 -11.943717 -2.438587 -0.656694
-0.001278 -0.135564 -51.402739
1.00000 -11.943717 -2.438587 -0.656694
-0.001278 -0.524364 -65.834628

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 7.608782 90.190297 1.009477
0.004162 1.110753 169.735898
0.57739 7.608782 90.190297 1.009477
0.004162 0.687682 144.234598
0.71826 7.608782 90.190297 1.009477
0.004162 0.276480 126.779544
0.85913 7.608782 90.190297 1.009477
0.004162 0.114831 122.198700
1.00000 7.608782 90.190297 1.009477
0.004162 0.400717 132.715126

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -10.165205 -89.856086 -0.704733
-0.004614 -0.783733 -78.034157
0.57739 -10.165205 -89.856086 -0.704733
-0.004614 -0.488050 -55.149407
0.71826 -10.165205 -89.856086 -0.704733
-0.004614 -0.192368 -45.219934
0.85913 -10.165205 -89.856086 -0.704733
-0.004614 -0.161703 -43.355878
1.00000 -10.165205 -89.856086 -0.704733
-0.004614 -0.583865 -55.564454

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 0.501982 42.921720 0.337113
0.000226 0.375853 77.804209
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3824

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.57739 0.501982 42.921720 0.337113
0.000226 0.234424 59.879968
0.71826 0.501982 42.921720 0.337113
0.000226 0.093022 42.885766
0.85913 0.501982 42.921720 0.337113
0.000226 0.029757 26.572352
1.00000 0.501982 42.921720 0.337113
0.000226 0.115789 14.652674

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -4.826605 -0.924927 -0.205060
-0.000577 -0.228308 -2.963645
0.57739 -4.826605 -0.924927 -0.205060
-0.000577 -0.142286 -2.850953
0.71826 -4.826605 -0.924927 -0.205060
-0.000577 -0.056237 -3.739819
0.85913 -4.826605 -0.924927 -0.205060
-0.000577 -0.048438 -6.781977
1.00000 -4.826605 -0.924927 -0.205060
-0.000577 -0.189869 -11.247783

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 4.654488 90.706074 0.675330
0.005086 0.733355 220.958522
0.57739 4.654488 90.706074 0.675330
0.005086 0.450633 186.021611
0.71826 4.654488 90.706074 0.675330
0.005086 0.184049 161.100865
0.85913 4.654488 90.706074 0.675330
0.005086 0.061784 151.004776
1.00000 4.654488 90.706074 0.675330
0.005086 0.181330 143.965315

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -7.489299 -60.778002 -0.317257
-0.005149 -0.353532 -21.081004
0.57739 -7.489299 -60.778002 -0.317257
-0.005149 -0.220406 -2.989504
0.71826 -7.489299 -60.778002 -0.317257
-0.005149 -0.087272 -2.603662
0.85913 -7.489299 -60.778002 -0.317257
-0.005149 -0.118078 -5.544970
1.00000 -7.489299 -60.778002 -0.317257
-0.005149 -0.400629 -9.754042

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 4.477665 101.547660 0.920805
0.004584 1.007895 200.002660
0.57739 4.477665 101.547660 0.920805
0.004584 0.622129 166.524187
0.71826 4.477665 101.547660 0.920805
0.004584 0.250949 145.074424
0.85913 4.477665 101.547660 0.920805
0.004584 0.098134 136.988666
1.00000 4.477665 101.547660 0.920805
0.004584 0.326395 131.090509

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -10.522773 -55.773449 -0.573122
-0.005296 -0.637610 -23.817695
0.57739 -10.522773 -55.773449 -0.573122
-0.005296 -0.397142 -16.278702
0.71826 -10.522773 -55.773449 -0.573122
-0.005296 -0.156631 -24.676937
0.85913 -10.522773 -55.773449 -0.573122
-0.005296 -0.152345 -35.705190
1.00000 -10.522773 -55.773449 -0.573122
-0.005296 -0.537965 -47.640680
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3825

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 9.656698 85.448167 0.993941
0.003762 1.095015 169.122008
0.57739 9.656698 85.448167 0.993941
0.003762 0.678380 140.483498
0.71826 9.656698 85.448167 0.993941
0.003762 0.271317 120.391933
0.85913 9.656698 85.448167 0.993941
0.003762 0.112928 110.555910
1.00000 9.656698 85.448167 0.993941
0.003762 0.402137 118.660674

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -9.088852 -104.350606 -0.708363
-0.003763 -0.788003 -108.705894
0.57739 -9.088852 -104.350606 -0.708363
-0.003763 -0.490771 -77.063682
0.71826 -9.088852 -104.350606 -0.708363
-0.003763 -0.193548 -56.016750
0.85913 -9.088852 -104.350606 -0.708363
-0.003763 -0.156818 -36.950317
1.00000 -9.088852 -104.350606 -0.708363
-0.003763 -0.573358 -40.891974

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 9.585081 2.961304 0.419598
0.001037 0.466849 5.710110
0.57739 9.585081 2.961304 0.419598
0.001037 0.290813 4.937325
0.71826 9.585081 2.961304 0.419598
0.001037 0.114791 4.180568
0.85913 9.585081 2.961304 0.419598
0.001037 0.058347 3.449081
1.00000 9.585081 2.961304 0.419598
0.001037 0.226342 2.735286

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43651 -0.488924 -84.583096 -0.400271
-7.24E-06 -0.445372 -153.919039
0.57739 -0.488924 -84.583096 -0.400271
-7.24E-06 -0.277444 -118.485964
0.71826 -0.488924 -84.583096 -0.400271
-7.24E-06 -0.109497 -83.079281
0.85913 -0.488924 -84.583096 -0.400271
-7.24E-06 -0.061185 -47.709143
1.00000 -0.488924 -84.583096 -0.400271
-7.24E-06 -0.237298 -12.472009

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43651 15.988558 26.803504 0.715960
0.007162 0.773540 84.323888
0.57739 15.988558 26.803504 0.715960
0.007162 0.473903 77.096715

```
0.71826     15.988558     26.803504      0.715960
 0.007162     0.193898     81.321255
0.85913     15.988558     26.803504      0.715960
 0.007162     0.096363    103.178797
1.00000     15.988558     26.803504      0.715960
 0.007162     0.301015    125.268749

COMB DB-G3-2 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -1.695071 -174.976898   -0.527288
-0.005914   -0.586916 -195.096179
0.57739   -1.695071 -174.976898   -0.527288
-0.005914   -0.365696 -130.382280
0.71826   -1.695071 -174.976898   -0.527288
-0.005914   -0.144455  -86.165234
0.85913   -1.695071 -174.976898   -0.527288
-0.005914   -0.129268  -43.801663
1.00000   -1.695071 -174.976898   -0.527288
-0.005914   -0.428773   -3.028739
Program    SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                            3826

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    13.879499     73.531486      0.927009
 0.005289     1.016154    188.212017
0.57739    13.879499     73.531486      0.927009
 0.005289     0.627744    160.301228
0.71826    13.879499     73.531486      0.927009
 0.005289     0.252807    140.244416
0.85913    13.879499     73.531486      0.927009
 0.005289     0.102171    132.241722
1.00000    13.879499     73.531486      0.927009
 0.005289     0.347791    125.187214

COMB DB-G3-3 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -5.922502 -143.745769   -0.612253
-0.004245   -0.681711 -172.882005
0.57739   -5.922502 -143.745769   -0.612253
-0.004245   -0.424827 -118.649350
0.71826   -5.922502 -143.745769   -0.612253
-0.004245   -0.167920  -78.522194
0.85913   -5.922502 -143.745769   -0.612253
-0.004245   -0.151796  -39.739733
1.00000   -5.922502 -143.745769   -0.612253
-0.004245   -0.540072   -3.686524

COMB DB-G3-4 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    11.843181     81.233827      1.023238
 0.004427     1.126091    169.147366
0.57739    11.843181     81.233827      1.023238
 0.004427     0.697223    138.977954
0.71826    11.843181     81.233827      1.023238
 0.004427     0.279502    119.836910
0.85913    11.843181     81.233827      1.023238
 0.004427     0.117658    110.965424
1.00000    11.843181     81.233827      1.023238
 0.004427     0.415266    104.884079

COMB DB-G3-4 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -8.160343 -120.150224   -0.731516
-0.004060   -0.814019 -145.606530
0.57739   -8.160343 -120.150224   -0.731516
-0.004060   -0.507103 -105.063512
0.71826   -8.160343 -120.150224   -0.731516
-0.004060   -0.200168  -77.444421
0.85913   -8.160343 -120.150224   -0.731516
-0.004060   -0.162738  -52.174563
1.00000   -8.160343 -120.150224   -0.731516
-0.004060   -0.591519  -30.027355

COMB DL-G1-1 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    0.197168     29.151221      0.939536
 1.04E-05     1.043389     1.987748
0.57739    0.197168     29.151221      0.939536
 1.04E-05     0.649212     2.237615
0.71826    0.197168     29.151221      0.939536
 1.04E-05     0.254698     2.534766
0.85913    0.197168     29.151221      0.939536
 1.04E-05     0.100368     2.859694
1.00000    0.197168     29.151221      0.939536
 1.04E-05     0.387486     3.284087

COMB DL-G1-1 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -4.997690   -1.672388   -0.683998
-0.000817   -0.760245  -18.147401
0.57739   -4.997690   -1.672388   -0.683998
-0.000817   -0.197260  -29.102487
0.71826   -4.997690   -1.672388   -0.683998
-0.000817   -0.186144  -41.737945
0.85913   -4.997690   -1.672388   -0.683998
-0.000817   -0.138415  -53.561508
1.00000   -4.997690   -1.672388   -0.683998
-0.000817   -0.532719  -65.459491
Program    SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                            3827

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    0.727007     60.639648      1.498593
 0.000263     1.667214    38.012722
0.57739    0.727007     60.639648      1.498593
 0.000263     1.038355    27.898435
0.71826    0.727007     60.639648      1.498593
 0.000263     0.409383    18.659871
0.85913    0.727007     60.639648      1.498593
 0.000263     0.167274    10.909325
1.00000    0.727007     60.639648      1.498593
 0.000263     0.641017     8.315989

COMB DL-G1-2 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -8.542700   -3.678718   -1.129493
-0.001486   -1.254737  -19.356625
0.57739   -8.542700   -3.678718   -1.129493
-0.001486   -0.780838  -33.173440
0.71826   -8.542700   -3.678718   -1.129493
-0.001486   -0.306914  -49.146225
0.85913   -8.542700   -3.678718   -1.129493
-0.001486   -0.217422  -66.663764
1.00000   -8.542700   -3.678718   -1.129493
-0.001486   -0.846538  -87.135505

COMB DL-G1-3 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    0.896783    105.847598      1.762401
 8.47E-05     1.962796    188.556337
0.57739    0.896783    105.847598      1.762401
 8.47E-05     1.223218    158.276928
0.71826    0.896783    105.847598      1.762401
 8.47E-05     0.483513    128.485469
0.85913    0.896783    105.847598      1.762401
 8.47E-05     0.178324     99.686752
1.00000    0.896783    105.847598      1.762401
 8.47E-05     0.687698     74.508488

COMB DL-G1-3 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -10.984322   -3.593010   -1.213474
-0.001110   -1.349376  -17.088576
0.57739   -10.984322   -3.593010   -1.213474
-0.001110   -0.840608   -29.903306
0.71826   -10.984322   -3.593010   -1.213474
-0.001110   -0.331215   -43.948614
0.85913   -10.984322   -3.593010   -1.213474
-0.001110   -0.253442   -59.241913
1.00000   -10.984322   -3.593010   -1.213474
-0.001110   -0.992858   -76.715723

COMB DL-G1-4 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    6.562464     91.080060      1.893500
 0.003249     2.096750    176.600551
0.57739    6.562464     91.080060      1.893500
 0.003249     1.303503    152.689353
0.71826    6.562464     91.080060      1.893500
 0.003249     0.517151    136.055808
0.85913    6.562464     91.080060      1.893500
 0.003249     0.198038    132.103689
1.00000    6.562464     91.080060      1.893500
 0.003249     0.726747    141.836229

COMB DL-G1-4 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -9.380173   -79.642655   -1.265834
-0.003694   -1.406833  -72.170390
0.57739   -9.380173   -79.642655   -1.265834
-0.003694   -0.876345  -53.059485
0.71826   -9.380173   -79.642655   -1.265834
-0.003694   -0.345449  -47.564947
0.85913   -9.380173   -79.642655   -1.265834
-0.003694   -0.287456  -49.938110
1.00000   -9.380173   -79.642655   -1.265834
-0.003694   -1.080851  -64.703824
Program    SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                            3828

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    0.542589     41.222118      0.577790
 0.000213     0.645264    78.263139
0.57739    0.542589     41.222118      0.577790
 0.000213     0.402766    61.223094
0.71826    0.542589     41.222118      0.577790
 0.000213     0.160163    44.715413
0.85913    0.542589     41.222118      0.577790
 0.000213     0.064189    29.222815
1.00000    0.542589     41.222118      0.577790
 0.000213     0.243409    17.309242

COMB DL-G2-1 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -4.080427   -0.767369   -0.427966
-0.000489   -0.475064   -3.006103
0.57739   -4.080427   -0.767369   -0.427966
-0.000489   -0.295471   -3.007869
0.71826   -4.080427   -0.767369   -0.427966
-0.000489   -0.116026   -4.195912
0.85913   -4.080427   -0.767369   -0.427966
-0.000489   -0.080627   -6.505416
1.00000   -4.080427   -0.767369   -0.427966
-0.000489   -0.323502  -10.861348

COMB DL-G2-2 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    4.072884     83.804273      1.040426
 0.004425     1.143876    226.400076
0.57739    4.072884     83.804273      1.040426
 0.004425     0.709335    194.098123
0.71826    4.072884     83.804273      1.040426
 0.004425     0.285211    171.426150
0.85913    4.072884     83.804273      1.040426
 0.004425     0.108835    160.577415
1.00000    4.072884     83.804273      1.040426
 0.004425     0.361686    153.018591

COMB DL-G2-2 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -6.368638   -52.361646   -0.610718
-0.004463   -0.678197   -21.913153
0.57739   -6.368638   -52.361646   -0.610718
-0.004463   -0.422888   -22.882959
0.71826   -6.368638   -52.361646   -0.610718
-0.004463   -0.167152    -2.848211
0.85913   -6.368638   -52.361646   -0.610718
-0.004463   -0.167901    -5.114959
1.00000   -6.368638   -52.361646   -0.610718
-0.004463   -0.603022    -9.307998

COMB DL-G2-3 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    3.933392     100.184764      1.626806
 0.003989     1.797848    294.297481
0.57739    3.933392     100.184764      1.626806
 0.003989     1.116904    173.608562
0.71826    3.933392     100.184764      1.626806
 0.003989     0.445491    154.697560
0.85913    3.933392     100.184764      1.626806
 0.003989     0.175137    146.322216
1.00000    3.933392     100.184764      1.626806
 0.003989     0.622622    140.130104

COMB DL-G2-3 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -9.476987   -48.501184   -1.074366
-0.004650   -1.193693  -24.179288
0.57739   -9.476987   -48.501154   -1.074366
-0.004650   -0.743771  -16.381495
0.71826   -9.476987   -48.501154   -1.074366
-0.004650   -0.293299   -27.271796
0.85913   -9.476987   -48.501154   -1.074366
-0.004650   -0.250635   -39.951880
1.00000   -9.476987   -48.501154   -1.074366
-0.004650   -0.932294   -53.891181
Program    SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                            3829

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    8.481862     84.589428      1.827518
 0.003111     2.025423    171.808857
0.57739    8.481862     84.589428      1.827518
 0.003111     1.259608    145.606172
0.71826    8.481862     84.589428      1.827518
 0.003111     0.499710    127.701694
0.85913    8.481862     84.589428      1.827518
 0.003111     0.192223    117.855322
1.00000    8.481862     84.589428      1.827518
 0.003111     0.711836    128.203480

COMB DL-G2-4 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -8.177933   -95.677116   -1.242840
-0.003136   -1.381497  -101.007091
0.57739   -8.177933   -95.677116   -1.242840
-0.003136   -0.860773   -71.225883
0.71826   -8.177933   -95.677116   -1.242840
-0.003136   -0.339442   -53.652627
0.85913   -8.177933   -95.677116   -1.242840
-0.003136   -0.274897   -38.915425
1.00000   -8.177933   -95.677116   -1.242840
-0.003136   -1.041143   -46.312073

COMB DL-G3-1 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    8.624745     3.087805      0.787276
 0.000977     0.874152     5.985940
0.57739    8.624745     3.087805      0.787276
 0.000977     0.543864     5.268758
0.71826    8.624745     3.087805      0.787276
 0.000977     0.213694     4.592792
0.85913    8.624745     3.087805      0.787276
 0.000977     0.086449     3.930723
1.00000    8.624745     3.087805      0.787276
 0.000977     0.336016     3.269914

COMB DL-G3-1 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -0.406767   -83.523309   -0.595424
-4.27E-06   -0.662283  -154.738655
0.57739   -0.406767   -83.523309   -0.595424
-4.27E-06   -0.412401  -120.156985
0.71826   -0.406767   -83.523309   -0.595424
-4.27E-06   -0.162394   -85.568983
0.85913   -0.406767   -83.523309   -0.595424
-4.27E-06   -0.117089   -50.991568
1.00000   -0.406767   -83.523309   -0.595424
-4.27E-06   -0.447014   -16.422830

COMB DL-G3-2 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    14.593829     23.590254      1.252798
 0.007114     1.367715    87.790106
0.57739    14.593829     23.590254      1.252798
 0.007114     0.844912    82.204459
0.71826    14.593829     23.590254      1.252798
 0.007114     0.337325    89.833738
0.85913    14.593829     23.590254      1.252798
 0.007114     0.144364    113.253622
1.00000    14.593829     23.590254      1.252798
 0.007114     0.479024    136.795326

COMB DL-G3-2 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -1.397248 -170.010566   -0.810588
-0.005803   -0.868959 -195.192889
0.57739   -1.397248 -170.010566   -0.810588
-0.005803   -0.560364 -127.902364
0.71826   -1.397248 -170.010566   -0.810588
-0.005803   -0.220882  -86.169550
0.85913   -1.397248 -170.010566   -0.810588
-0.005803   -0.213858  -46.278095
1.00000   -1.397248 -170.010566   -0.810588
-0.005803   -0.738192   -6.557005
Program    SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                            3830

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    12.753617     64.702809      1.559786
 0.005453     1.718471    186.920458
0.57739    12.753617     64.702809      1.559786
 0.005453     1.065736    163.015124
0.71826    12.753617     64.702809      1.559786
 0.005453     0.424351    148.655368
0.85913    12.753617     64.702809      1.559786
 0.005453     0.165633    145.703129
1.00000    12.753617     64.702809      1.559786
 0.005453     0.582824    142.929204

COMB DL-G3-3 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -4.878035 -141.516943   -1.003161
-0.004454   -1.115004 -172.324536
0.57739   -4.878035 -141.516943   -1.003161
-0.004454   -0.594519 -116.015092
0.71826   -4.878035 -141.516943   -1.003161
-0.004454   -0.274449  -78.143450
0.85913   -4.878035 -141.516943   -1.003161
-0.004454   -0.247428  -41.575977
1.00000   -4.878035 -141.516943   -1.003161
-0.004454   -0.900499   -5.361312

COMB DL-G3-4 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    10.930369     77.365138      1.825372
 0.004568     2.180221    168.846212
0.57739    10.930369     77.365138      1.825372
 0.004568     1.253572    141.730626
0.71826    10.930369     77.365138      1.825372
 0.004568     0.498241    127.150134
0.85913    10.930369     77.365138      1.825372
 0.004568     0.199586    122.626801
1.00000    10.930369     77.365138      1.825372
 0.004568     0.722158    120.161899

COMB DL-G3-4 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -7.104486 -118.580040   -1.252817
-0.004192   -1.392106 -145.316238
0.57739   -7.104486 -118.580040   -1.252817
-0.004192   -0.866814 -102.349144
0.71826   -7.104486 -118.580040   -1.252817
-0.004192   -0.341788   -78.031836
0.85913   -7.104486 -118.580040   -1.252817
-0.004192   -0.280894   -55.454705
1.00000   -7.104486 -118.580040   -1.252817
-0.004192   -1.045901   -34.307585

COMB       DB ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    15.988558     104.919347      1.023238
 0.007162     1.126091    220.958522
0.57739    15.988558     104.919347      1.023238
 0.007162     0.697223    186.021611
0.71826    15.988558     104.919347      1.023238
 0.007162     0.279502    161.100865
0.85913    15.988558     104.919347      1.023238
 0.007162     0.117658    151.004776
1.00000    15.988558     104.919347      1.023238
 0.007162     0.415266    143.965315

COMB       DB ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -11.943717 -174.976898   -0.731516
-0.005914   -0.814019 -195.096179
0.57739   -11.943717 -174.976898   -0.731516
-0.005914   -0.507103 -130.382280
0.71826   -11.943717 -174.976898   -0.731516
-0.005914   -0.200168  -86.165234
0.85913   -11.943717 -174.976898   -0.731516
-0.005914   -0.162738  -58.156275
1.00000   -11.943717 -174.976898   -0.731516
-0.005914   -0.591519   -75.231883
Program    SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                            3831

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    14.593829     105.847598      1.893500
 0.007114     2.096750    226.400076
0.57739    14.593829     105.847598      1.893500
 0.007114     1.303503    194.098123
0.71826    14.593829     105.847598      1.893500
 0.007114     0.517151    171.426150
0.85913    14.593829     105.847598      1.893500
 0.007114     0.199586    160.577415
1.00000    14.593829     105.847598      1.893500
 0.007114     0.726747    153.018591

COMB       DL ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -10.984322 -170.010566   -1.265834
-0.005803   -1.406833 -195.192889
0.57739   -10.984322 -170.010566   -1.265834
-0.005803   -0.876345 -127.902364
0.71826   -10.984322 -170.010566   -1.265834
-0.005803   -0.345449  -86.169550
0.85913   -10.984322 -170.010566   -1.265834
-0.005803   -0.287456  -66.663764
1.00000   -10.984322 -170.010566   -1.265834
-0.005803   -1.080851  -87.135505

COMB       CAR ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    15.988558     105.847598      1.893500
 0.007162     2.096750    226.400076
0.57739    15.988558     105.847598      1.893500
 0.007162     1.303503    194.098123
0.71826    15.988558     105.847598      1.893500
 0.007162     0.517151    171.426150
0.85913    15.988558     105.847598      1.893500
 0.007162     0.199586    160.577415
1.00000    15.988558     105.847598      1.893500
 0.007162     0.726747    153.018591

COMB       CAR ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -11.943717 -174.976898   -1.265834
-0.005914   -1.406833 -195.192889
0.57739   -11.943717 -174.976898   -1.265834
-0.005914   -0.876345 -130.382280
0.71826   -11.943717 -174.976898   -1.265834
-0.005914   -0.345449  -86.169550
0.85913   -11.943717 -174.976898   -1.265834
-0.005914   -0.287456  -66.663764
1.00000   -11.943717 -174.976898   -1.265834
-0.005914   -1.080851  -87.135505

COMB  DESIGN ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.43651    15.988558     105.847598      1.893500
 0.007162     2.096750    226.400076
0.57739    15.988558     105.847598      1.893500
 0.007162     1.303503    194.098123
0.71826    15.988558     105.847598      1.893500
 0.007162     0.517151    171.426150
0.85913    15.988558     105.847598      1.893500
 0.007162     0.199586    160.577415
1.00000    15.988558     105.847598      1.893500
 0.007162     0.726747    153.018591

COMB  DESIGN ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.43651   -11.943717 -174.976898   -1.265834
-0.005914   -1.406833 -195.192889
0.57739   -11.943717 -174.976898   -1.265834
-0.005914   -0.876345 -130.382280
0.71826   -11.943717 -174.976898   -1.265834
-0.005914   -0.345449  -86.169550
0.85913   -11.943717 -174.976898   -1.265834
-0.005914   -0.287456  -66.663764
1.00000   -11.943717 -174.976898   -1.265834
-0.005914   -1.080851  -87.135505
Program    SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1503.OUT

                        Page
<                    MOVING                LOAD                >
                                            3832

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       367 ================== LENGTH
=     2.977041

COMB DB-G1-1 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000    0.221697     23.525608      0.384659
 9.25E-06     0.214522     2.370665
0.14083    0.221697     23.525608      0.384659
 9.25E-06     0.053137     2.799422
0.28166    0.221697     23.525608      0.384659
 9.25E-06     0.103648     3.269585
0.42249    0.221697     23.525608      0.384659
 9.25E-06     0.258365     3.768281
0.56332    0.221697     23.525608      0.384659
 9.25E-06     0.413065     4.283326

COMB DB-G1-1 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000   -4.845268   -1.281688   -0.368986
-0.000547   -0.205745  -54.391441
0.14083   -4.845268   -1.281688   -0.368986
-0.000547   -0.050969  -64.080478
0.28166   -4.845268   -1.281688   -0.368986
-0.000547   -0.108051  -73.794835
0.42249   -4.845268   -1.281688   -0.368986
-0.000547   -0.269307  -83.513613
0.56332   -4.845268   -1.281688   -0.368986
-0.000547   -0.430578  -93.262129

COMB DB-G1-2 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000    0.646011     53.958776      0.657859
 0.000212     0.366941     7.964364
0.14083    0.646011     53.958776      0.657859
 0.000212     0.091212     7.046810
0.28166    0.646011     53.958776      0.657859
 0.000212     0.165513     6.593752
0.42249    0.646011     53.958776      0.657859
 0.000212     0.413164     6.755815
0.56332    0.646011     53.958776      0.657859
 0.000212     0.660802     7.360293
```

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.894862	-2.084028	-0.590662
-0.001167	-0.329945	-75.264035	
0.14083	-8.894862	-2.084028	-0.590662
-0.001167	-0.082720	-94.854567	
0.28166	-8.894862	-2.084028	-0.590662
-0.001167	-0.185784	-115.181703	
0.42249	-8.894862	-2.084028	-0.590662
-0.001167	-0.460620	-135.736950	
0.56332	-8.894862	-2.084028	-0.590662
-0.001167	-0.736372	-157.309655	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.890455	104.038491	0.867291
0.000302	0.482135	59.294184	
0.14083	0.890455	104.038491	0.867291
0.000302	0.118789	37.595407	
0.28166	0.890455	104.038491	0.867291
0.000302	0.179304	31.908122	
0.42249	0.890455	104.038491	0.867291
0.000302	0.447331	30.088928	
0.56332	0.890455	104.038491	0.867291
0.000302	0.715348	29.407502	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.792400	-2.372244	-0.639200
-0.001278	-0.356614	-65.859272	
0.14083	-11.792400	-2.372244	-0.639200
-0.001278	-0.088421	-80.272189	
0.28166	-11.792400	-2.372244	-0.639200
-0.001278	-0.245797	-96.796880	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42249	-11.792400	-2.372244	-0.639200
-0.001278	-0.608803	-136.840919	
0.56332	-11.792400	-2.372244	-0.639200
-0.001278	-0.972367	-180.088142	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.276022	123.950725	0.975937
0.004033	0.558562	132.876400	
0.14083	5.276022	123.950725	0.975937
0.004033	0.150301	118.404660	
0.28166	5.276022	123.950725	0.975937
0.004033	0.192724	116.949243	
0.42249	5.276022	123.950725	0.975937
0.004033	0.481189	127.774712	
0.56332	5.276022	123.950725	0.975937
0.004033	0.769660	146.428538	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.884862	-52.522114	-0.687988
-0.004543	-0.387813	-55.581509	
0.14083	-11.884862	-52.522114	-0.687988
-0.004543	-0.108268	-67.787173	
0.28166	-11.884862	-52.522114	-0.687988
-0.004543	-0.273123	-81.901908	
0.42249	-11.884862	-52.522114	-0.687988
-0.004543	-0.670107	-115.379270	
0.56332	-11.884862	-52.522114	-0.687988
-0.004543	-1.078353	-159.679866	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.513029	42.560249	0.317959
9.63E-05	0.176312	14.639635	
0.14083	0.513029	42.560249	0.317959
9.63E-05	0.043209	9.750146	
0.28166	0.513029	42.560249	0.317959
9.63E-05	0.056347	8.314415	
0.42249	0.513029	42.560249	0.317959
9.63E-05	0.176469	7.766387	
0.56332	0.513029	42.560249	0.317959
9.63E-05	0.226571	7.462015	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.772177	-0.860397	-0.202989
-0.000524	-0.113837	-11.255836	
0.14083	-4.772177	-0.860397	-0.202989
-0.000524	-0.028698	-15.774667	
0.28166	-4.772177	-0.860397	-0.202989
-0.000524	-0.090512	-31.219947	
0.42249	-4.772177	-0.860397	-0.202989
-0.000524	-0.223731	-48.267467	
0.56332	-4.772177	-0.860397	-0.202989
-0.000524	-0.356981	-65.800161	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.382291	137.100597	0.644708
0.005177	0.377772	144.208648	
0.14083	1.382291	137.100597	0.644708
0.005177	0.108799	99.223456	
0.28166	1.382291	137.100597	0.644708
0.005177	0.087379	71.398185	
0.42249	1.382291	137.100597	0.644708
0.005177	0.218206	60.016722	
0.56332	1.382291	137.100597	0.644708
0.005177	0.349030	59.304328	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.913645	-9.137678	-0.311968
-0.005533	-0.179186	-9.757119	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14083	-9.913645	-9.137678	-0.311968
-0.005533	-0.060655	-14.025660	
0.28166	-9.913645	-9.137678	-0.311968
-0.005533	-0.180650	-20.869809	
0.42249	-9.913645	-9.137678	-0.311968
-0.005533	-0.434709	-53.410981	
0.56332	-9.913645	-9.137678	-0.311968
-0.005533	-0.703744	-100.590366	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.528889	143.404312	0.867706
0.004678	0.500557	131.314071	
0.14083	1.528889	143.404312	0.867706
0.004678	0.137901	91.140096	
0.28166	1.528889	143.404312	0.867706
0.004678	0.156829	66.400306	
0.42249	1.528889	143.404312	0.867706
0.004678	0.391468	56.487046	
0.56332	1.528889	143.404312	0.867706
0.004678	0.626069	56.206536	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.675536	-9.103735	-0.559499
-0.005408	-0.316781	-47.658852	
0.14083	-12.675536	-9.103735	-0.559499
-0.005408	-0.093232	-59.625850	
0.28166	-12.675536	-9.103735	-0.559499
-0.005408	-0.245147	-74.106434	
0.42249	-12.675536	-9.103735	-0.559499
-0.005408	-0.593429	-111.961862	
0.56332	-12.675536	-9.103735	-0.559499
-0.005408	-0.955242	-162.684050	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.798170	112.745024	0.953131
0.003646	0.543914	118.770418	
0.14083	7.798170	112.745024	0.953131
0.003646	0.145103	116.323139	
0.28166	7.798170	112.745024	0.953131
0.003646	0.193996	127.429773	
0.42249	7.798170	112.745024	0.953131
0.003646	0.485020	149.018525	
0.56332	7.798170	112.745024	0.953131
0.003646	0.776004	177.140030	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.465780	-74.267002	-0.694041
-0.003758	-0.390829	-40.903577	
0.14083	-10.465780	-74.267002	-0.694041
-0.003758	-0.107035	-51.141698	
0.28166	-10.465780	-74.267002	-0.694041
-0.003758	-0.267583	-63.355464	
0.42249	-10.465780	-74.267002	-0.694041
-0.003758	-0.656844	-95.247823	
0.56332	-10.465780	-74.267002	-0.694041
-0.003758	-1.054996	-136.279893	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.668561	3.001970	0.414382
0.000990	0.232264	2.733377	
0.14083	9.668561	3.001970	0.414382
0.000990	0.058516	25.101000	
0.28166	9.668561	3.001970	0.414382
0.000990	0.109970	60.357732	
0.42249	9.668561	3.001970	0.414382
0.000990	0.275955	95.869460	
0.56332	9.668561	3.001970	0.414382
0.000990	0.441920	131.472706	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.475496	-85.074782	-0.395853
-0.000207	-0.221948	-12.511793	
0.14083	-0.475496	-85.074782	-0.395853
-0.000207	-0.055909	-2.728922	
0.28166	-0.475496	-85.074782	-0.395853
-0.000207	0.115227	3.166768	
0.42249	-0.475496	-85.074782	-0.395853
-0.000207	-0.288944	-3.809261	
0.56332	-0.475496	-85.074782	-0.395853
-0.000207	-0.462676	-4.826824	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.080130	84.145018	0.705905
0.007056	0.418976	125.601761	
0.14083	12.080130	84.145018	0.705905
0.007056	0.124206	133.625090	
0.28166	12.080130	84.145018	0.705905
0.007056	0.145021	147.385300	
0.42249	12.080130	84.145018	0.705905
0.007056	0.363531	178.455843	
0.56332	12.080130	84.145018	0.705905
0.007056	0.582022	221.760861	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.742185	-112.811976	-0.521122
-0.006106	-0.298055	-3.022554	
0.14083	-4.742185	-112.811976	-0.521122
-0.006106	-0.163494	-3.376472	
0.28166	-4.742185	-112.811976	-0.521122
-0.006106	-0.194338	-4.579137	
0.42249	-4.742185	-112.811976	-0.521122
-0.006106	-0.470764	-7.761726	
0.56332	-4.742185	-112.811976	-0.521122
-0.006106	-0.765260	-29.014957	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.242560	112.390131	0.899530
0.005275	0.518281	125.350252	
0.14083	11.242560	112.390131	0.899530
0.005275	0.142207	124.832638	
0.28166	11.242560	112.390131	0.899530
0.005275	0.168459	140.383188	
0.42249	11.242560	112.390131	0.899530
0.005275	0.421862	169.925783	
0.56332	11.242560	112.390131	0.899530
0.005275	0.675244	208.461868	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.936506	-101.261420	-0.604299
-0.004666	-0.342397	-3.677450	
0.14083	-7.936506	-101.261420	-0.604299
-0.004666	-0.099216	-4.484230	
0.28166	-7.936506	-101.261420	-0.604299
-0.004666	-0.250879	-7.939255	
0.42249	-7.936506	-101.261420	-0.604299
-0.004666	-0.614450	-35.049686	
0.56332	-7.936506	-101.261420	-0.604299
-0.004666	-0.990528	-73.764177	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.668849	113.171448	0.982245
0.004369	0.560407	105.022483	
0.14083	9.668849	113.171448	0.982245
0.004369	0.150201	104.948784	
0.28166	9.668849	113.171448	0.982245
0.004369	0.200707	118.257824	
0.42249	9.668849	113.171448	0.982245
0.004369	0.502216	143.198939	
0.56332	9.668849	113.171448	0.982245
0.004369	0.803711	175.585203	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.793344	-85.012193	-0.719060
-0.004241	-0.405661	-30.034405	
0.14083	-9.793344	-85.012193	-0.719060
-0.004241	-0.112587	-38.580465	
0.28166	-9.793344	-85.012193	-0.719060
-0.004241	-0.275875	-49.104381	
0.42249	-9.793344	-85.012193	-0.719060
-0.004241	-0.676454	-79.082454	
0.56332	-9.793344	-85.012193	-0.719060
-0.004241	-1.087392	-119.310350	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.204571	29.058624	0.890027
6.18E-06	0.493775	3.290743	
0.14083	0.204571	29.058624	0.890027
6.18E-06	0.120206	3.876307	
0.28166	0.204571	29.058624	0.890027
6.18E-06	0.186515	4.514578	
0.42249	0.204571	29.058624	0.890027
6.18E-06	0.465346	5.178401	
0.56332	0.204571	29.058624	0.890027
6.18E-06	0.744067	5.844965	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.953315	-1.633454	-0.664734
-0.000533	-0.370595	-65.485081	
0.14083	-4.953315	-1.633454	-0.664734
-0.000533	-0.091727	-77.492779	
0.28166	-4.953315	-1.633454	-0.664734
-0.000533	-0.251522	-89.552618	
0.42249	-4.953315	-1.633454	-0.664734
-0.000533	-0.625029	-101.648209	
0.56332	-4.953315	-1.633454	-0.664734
-0.000533	-0.998258	-113.767290	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.671541	61.330922	1.450940
0.000133	0.809597	8.324424	
0.14083	0.671541	61.330922	1.450940
0.000133	0.200159	7.666518	
0.28166	0.671541	61.330922	1.450940
0.000133	0.306900	7.846841	
0.42249	0.671541	61.330922	1.450940
0.000133	0.765145	8.432291	
0.56332	0.671541	61.330922	1.450940
0.000133	1.223373	9.253343	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.524693	-2.521228	-1.092910
-0.001039	-0.826904	-87.180106	
0.14083	-8.524693	-2.521228	-1.092910
-0.001039	-0.151603	-109.874481	
0.28166	-8.524693	-2.521228	-1.092910
-0.001039	-0.405937	-133.544690	
0.42249	-8.524693	-2.521228	-1.092910
-0.001039	-1.014242	-158.075425	
0.56332	-8.524693	-2.521228	-1.092910
-0.001039	-1.622729	-183.166006	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.919536	105.055802	1.721214
0.000266	0.960624	74.480522	
0.14083	0.919536	105.055802	1.721214
0.000266	0.238188	53.798809	
0.28166	0.919536	105.055802	1.721214
0.000266	0.331372	39.957020	
0.42249	0.919536	105.055802	1.721214
0.000266	0.826840	34.543573	
0.56332	0.919536	105.055802	1.721214
0.000266	1.321575	32.632747	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.840504	-3.565644	-1.180684
-0.001149	-0.659160	-76.752397	
0.14083	-10.840504	-3.565644	-1.180684
-0.001149	-0.163494	-94.745018	
0.28166	-10.840504	-3.565644	-1.180684
-0.001149	-0.480472	-114.522696	
0.42249	-10.840504	-3.565644	-1.180684
-0.001149	-1.202127	-152.340228	
0.56332	-10.840504	-3.565644	-1.180684
-0.001149	-1.923906	-193.341512	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.884134	116.519175	1.849985
0.003171	1.045065	141.836682	
0.14083	4.884134	116.519175	1.849985
0.003171	0.269755	131.940809	
0.28166	4.884134	116.519175	1.849985
0.003171	0.345884	127.651568	
0.42249	4.884134	116.519175	1.849985
0.003171	0.863754	136.711431	
0.56332	4.884134	116.519175	1.849985
0.003171	1.381109	153.580918	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.730890	-52.115496	-1.235580
-0.003646	-0.701677	-64.730274	
0.14083	-10.730890	-52.115496	-1.235580
-0.003646	-0.185517	-79.947536	
0.28166	-10.730890	-52.115496	-1.235580
-0.003646	-0.515939	-96.814087	
0.42249	-10.730890	-52.115496	-1.235580
-0.003646	-1.263670	-128.369391	
0.56332	-10.730890	-52.115496	-1.235580
-0.003646	-2.057567	-170.306614	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.549444	40.992704	0.584238
9.32E-05	0.328782	17.293871	
0.14083	0.549444	40.992704	0.584238
9.32E-05	0.083325	9.287914	
0.28166	0.549444	40.992704	0.584238
9.32E-05	0.115620	7.013932	
0.42249	0.549444	40.992704	0.584238
9.32E-05	0.288048	6.353570	
0.56332	0.549444	40.992704	0.584238
9.32E-05	0.460684	6.078330	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.037501	-0.733913	-0.411680
-0.000433	-0.230037	-10.871294	
0.14083	-4.037501	-0.733913	-0.411680
-0.000433	-0.057586	-16.310728	
0.28166	-4.037501	-0.733913	-0.411680
-0.000433	-0.160164	-30.262520	
0.42249	-4.037501	-0.733913	-0.411680
-0.000433	-0.405208	-46.467356	
0.56332	-4.037501	-0.733913	-0.411680
-0.000433	-0.650239	-63.041480	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.431550	122.862929	1.040766
0.004450	0.602438	153.003598	
0.14083	1.431550	122.862929	1.040766
0.004450	0.166900	112.653323	
0.28166	1.431550	122.862929	1.040766
0.004450	0.167091	79.613825	
0.42249	1.431550	122.862929	1.040766
0.004450	0.416393	65.751659	
0.56332	1.431550	122.862929	1.040766
0.004450	0.665406	63.057694	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.513374	-9.800276	-0.596120
-0.004725	-0.350780	-9.313615	
0.14083	-8.513374	-9.800276	-0.596120
-0.004725	-0.103378	-14.065184	
0.28166	-8.513374	-9.800276	-0.596120
-0.004725	-0.285242	-22.051968	
0.42249	-8.513374	-9.800276	-0.596120
-0.004725	-0.709626	-48.943444	
0.56332	-8.513374	-9.800276	-0.596120
-0.004725	-1.143256	-90.892347	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.551283	135.430837	1.602618
0.004027	0.913471	140.127593	
0.14083	1.551283	135.430837	1.602618
0.004027	0.241754	104.064081	
0.28166	1.551283	135.430837	1.602618
0.004027	0.293434	74.651384	
0.42249	1.551283	135.430837	1.602618
0.004027	0.731825	62.676358	
0.56332	1.551283	135.430837	1.602618
0.004027	1.169893	60.753752	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.381292	-9.980162	-1.046555
-0.004677	-0.600181	-53.918323	
0.14083	-11.381292	-9.980162	-1.046555
-0.004677	-0.163528	-68.192941	
0.28166	-11.381292	-9.980162	-1.046555
-0.004677	-0.443926	-85.736020	
0.42249	-11.381292	-9.980162	-1.046555
-0.004677	-1.104921	-120.195949	
0.56332	-11.381292	-9.980162	-1.046555
-0.004677	-1.774294	-168.209681	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.116626	105.658025	1.794573
0.002962	1.013928	128.159043	
0.14083	7.116626	105.658825	1.794573
0.002962	0.261812	129.100262	
0.28166	7.116626	105.658825	1.794573
0.002962	0.339936	135.684963	
0.42249	7.116626	105.658825	1.794573
0.002962	0.849363	154.877037	
0.56332	7.116626	105.658825	1.794573
0.002962	1.358318	180.980527	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.284894	-73.001632	-1.215980
-0.003048	-0.689735	-46.329651	
0.14083	-9.284894	-73.001632	-1.215980
-0.003048	-0.181468	-58.545137	
0.28166	-9.284894	-73.001632	-1.215980
-0.003048	-0.499666	-73.314286	
0.42249	-9.284894	-73.001632	-1.215980
-0.003048	-1.245030	-102.597220	
0.56332	-9.284894	-73.001632	-1.215980
-0.003048	-1.995755	-140.813673	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.693570	3.091867	0.765560
0.000906	0.427977	3.267461	
0.14083	8.693570	3.091867	0.765560
0.000906	0.107662	24.005092	
0.28166	8.693570	3.091867	0.765560
0.000906	0.163005	58.161673	
0.42249	8.693570	3.091867	0.765560
0.000906	0.410371	92.796811	
0.56332	8.693570	3.091867	0.765560
0.000906	0.657762	127.783928	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.391090	-83.908807	-0.590339
-0.000193	-0.331759	-16.463866	
0.14083	-0.391090	-83.908807	-0.590339
-0.000193	-0.084750	-3.999624	
0.28166	-0.391090	-83.908807	-0.590339
-0.000193	-0.215050	-4.108075	
0.42249	-0.391090	-83.908807	-0.590339
-0.000193	-0.535472	-4.779080	
0.56332	-0.391090	-83.908807	-0.590339
-0.000193	-0.856310	-5.914677	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.911831	79.795434	1.216642
0.006951	0.706596	136.826725	
0.14083	10.911831	79.795434	1.216642
0.006951	0.198902	143.428132	
0.28166	10.911831	79.795434	1.216642
0.006951	0.221734	156.274737	
0.42249	10.911831	79.795434	1.216642
0.006951	0.557134	184.128145	
0.56332	10.911831	79.795434	1.216642
0.006951	0.893070	224.113948	

COMB DL-G3-2 ---------- MIN

```
REL DIST          P          V2          V3
  T          M2          M3
0.00000   -4.548303 -110.147388   -0.803276
-0.006093   -0.475467   -6.598993
0.14083   -4.548303 -110.147388   -0.803276
-0.006093   -0.143376   -4.408760
0.28166   -4.548303 -110.147388   -0.803276
-0.006093   -0.338660   -5.318320
0.42249   -4.548303 -110.147388   -0.803276
-0.006093   -0.831004   -8.487090
0.56332   -4.548303 -110.147388   -0.803276
-0.006093   -1.337024  -31.337094

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000   10.125992  104.904236    1.535366
 0.005345    0.878479  142.921807
0.14083   10.125992  104.904236    1.535366
 0.005345    0.236668  140.229990
0.28166   10.125992  104.904236    1.535366
 0.005345    0.275177  146.261451
0.42249   10.125992  104.904236    1.535366
 0.005345    0.689166  170.764464
0.56332   10.125992  104.904236    1.535366
 0.005345    1.103827  205.850025

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000   -7.083314  -98.488893   -0.990561
-0.004777   -0.573639   -5.382565
0.14083   -7.083314  -98.488893   -0.990561
-0.004777   -0.161413   -4.483007
0.28166   -7.083314  -98.488893   -0.990561
-0.004777   -0.425701   -9.468913
0.42249   -7.083314  -98.488893   -0.990561
-0.004777   -1.056614  -29.842306
0.56332   -7.083314  -98.488893   -0.990561
-0.004777   -1.697524  -64.812751

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000    8.755968  110.570995    1.796484
 0.004438    1.020982  120.162141
0.14083    8.755968  110.570995    1.796484
 0.004438    0.269171  118.463420
0.28166    8.755968  110.570995    1.796484
 0.004438    0.342251  123.922583
0.42249    8.755968  110.570995    1.796484
 0.004438    0.855935  144.660650
0.56332    8.755968  110.570995    1.796484
 0.004438    1.370057  174.221117
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3840

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000   -8.904241  -82.874562   -1.227538
-0.004306   -0.702150   -34.344512
0.14083   -8.904241  -82.874562   -1.227538
-0.004306   -0.189902   -42.945145
0.28166   -8.904241  -82.874562   -1.227538
-0.004306   -0.498675   -56.196122
0.42249   -8.904241  -82.874562   -1.227538
-0.004306   -1.241516   -82.596560
0.56332   -8.904241  -82.874562   -1.227538
-0.004306   -1.992419  -121.212082

COMB       DB ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000   12.080130  143.404312    0.982245
 0.007056    0.560407  144.208648
0.14083   12.080130  143.404312    0.982245
 0.007056    0.150301  133.625090
0.28166   12.080130  143.404312    0.982245
 0.007056    0.200707  147.385300
0.42249   12.080130  143.404312    0.982245
 0.007056    0.251646  178.455843
0.56332   12.080130  143.404312    0.982245
 0.007056    0.803711  221.760861

COMB       DB ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -12.675536 -112.811976   -0.719060
-0.006106   -0.405661   -75.264035
0.14083  -12.675536 -112.811976   -0.719060
-0.006106   -0.112587   -94.854567
0.28166  -12.675536 -112.811976   -0.719060
-0.006106   -0.819775  -115.181703
0.42249  -12.675536 -112.811976   -0.719060
-0.006106   -0.676454  -136.840919
0.56332  -12.675536 -112.811976   -0.719060
-0.006106   -1.087392  -180.088142

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000   10.911831  135.430837    1.849985
 0.006951    1.045065  153.009598
0.14083   10.911831  135.430837    1.849985
 0.006951    0.269755  143.428132
0.28166   10.911831  135.430837    1.849985
 0.006951    0.345884  156.274737
0.42249   10.911831  135.430837    1.849985
 0.006951    0.863754  184.128145
0.56332   10.911831  135.430837    1.849985
 0.006951    1.381109  224.113948

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -11.381292 -110.147388   -1.235580
-0.006093   -0.702150   -87.180106
0.14083  -11.381292 -110.147388   -1.235580
-0.006093   -0.189902  -109.874481
0.28166  -11.381292 -110.147388   -1.235580
-0.006093   -0.515939  -133.544690
0.42249  -11.381292 -110.147388   -1.235580
-0.006093   -1.283670  -158.075425
0.56332  -11.381292 -110.147388   -1.235580
-0.006093   -2.057567  -193.341512

COMB       CAR ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000   12.080130  143.404312    1.849985
 0.007056    1.045065  153.009598
0.14083   12.080130  143.404312    1.849985
 0.007056    0.269755  143.428132
0.28166   12.080130  143.404312    1.849985
 0.007056    0.345884  156.274737
0.42249   12.080130  143.404312    1.849985
 0.007056    0.863754  184.128145
0.56332   12.080130  143.404312    1.849985
 0.007056    1.381109  224.113948
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3841

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB       CAR ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -12.675536 -112.811976   -1.235580
-0.006106   -0.702150   -87.180106
0.14083  -12.675536 -112.811976   -1.235580
-0.006106   -0.189902  -109.874481
0.28166  -12.675536 -112.811976   -1.235580
-0.006106   -0.515939  -133.544690
0.42249  -12.675536 -112.811976   -1.235580
-0.006106   -1.283670  -158.075425
0.56332  -12.675536 -112.811976   -1.235580
-0.006106   -2.057567  -193.341512

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.00000   12.080130  143.404312    1.849985
 0.007056    1.045065  153.009398
0.14083   12.080130  143.404312    1.849985
 0.007056    0.269755  143.428132
0.28166   12.080130  143.404312    1.849985
 0.007056    0.345884  156.274737
0.42249   12.080130  143.404312    1.849985
 0.007056    0.863754  184.128145
0.56332   12.080130  143.404312    1.849985
 0.007056    1.381109  224.113948

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.00000  -12.675536 -112.811976   -1.235580
-0.006106   -0.702150   -87.180106
0.14083  -12.675536 -112.811976   -1.235580
-0.006106   -0.189902  -109.874481
0.28166  -12.675536 -112.811976   -1.235580
-0.006106   -0.515939  -133.544690
0.42249  -12.675536 -112.811976   -1.235580
-0.006106   -1.283670  -158.075425
0.56332  -12.675536 -112.811976   -1.235580
-0.006106   -2.057567  -193.341512

ELEM      368 ================== LENGTH
=    2.977720

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    1.454094   16.975851    0.562840
 1.12E-05    0.623585    1.956293
0.57743    1.454094   16.975851    0.562840
 1.12E-05    0.387519    1.672653
0.71829    1.454094   16.975851    0.562840
 1.12E-05    0.151463    1.402613
0.85914    1.454094   16.975851    0.562840
 1.12E-05    0.056905    1.214355
1.00000    1.454094   16.975851    0.562840
 1.12E-05    0.217019    1.120708

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -3.052688  -0.459302   -0.381504
-0.001253   -0.423036   -20.008560
0.57743   -3.052688  -0.459302   -0.381504
-0.001253   -0.263022   -25.945519
0.71829   -3.052688  -0.459302   -0.381504
-0.001253   -0.102993   -32.095373
0.85914   -3.052688  -0.459302   -0.381504
-0.001253   -0.098417   -38.368212
1.00000   -3.052688  -0.459302   -0.381504
-0.001253   -0.320704   -44.886541

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    2.185105   42.895453    0.971068
 0.000224    1.078057   31.440980
0.57743    2.185105   42.895453    0.971068
 0.000224    0.670930   23.044038
0.71829    2.185105   42.895453    0.971068
 0.000224    0.264085   15.213821
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3842

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
  T          M2          M3
0.85914    2.185105   42.895453    0.971068
 0.000224    0.090831    8.750908
1.00000    2.185105   42.895453    0.971068
 0.000224    0.345667    6.866909

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -7.961517  -2.476545   -0.608402
-0.002242   -0.675052   -24.503304
0.57743   -7.961517  -2.476545   -0.608402
-0.002242   -0.419877   -31.994893
0.71829   -7.961517  -2.476545   -0.608402
-0.002242   -0.164680   -41.329009
0.85914   -7.961517  -2.476545   -0.608402
-0.002242   -0.143817   -52.653675
1.00000   -7.961517  -2.476545   -0.608402
-0.002242   -0.551124   -65.868058

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    2.086662   98.118614    1.283382
 6.52E-06    1.426871  179.943919
0.57743    2.086662   98.118614    1.283382
 6.52E-06    0.888600  147.361072
0.71829    2.086662   98.118614    1.283382
 6.52E-06    0.350339  114.915195
0.85914    2.086662   98.118614    1.283382
 6.52E-06    0.101935   83.044407
1.00000    2.086662   98.118614    1.283382
 6.52E-06    0.391457   53.983279

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658  -11.513907  -1.402413   -0.689844
-0.001784   -0.765886   -20.334090
0.57743  -11.513907  -1.402413   -0.689844
-0.001784   -0.447545   -27.702141
0.71829  -11.513907  -1.402413   -0.689844
-0.001784   -0.187124   -35.985729
0.85914  -11.513907  -1.402413   -0.689844
-0.001784   -0.187989   -45.608513
1.00000  -11.513907  -1.402413   -0.689844
-0.001784   -0.726352   -56.184109

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    8.924607   84.766846    1.403399
 0.004117    1.547216  167.646556
0.57743    8.924607   84.766846    1.403399
 0.004117    0.961797  140.862559
0.71829    8.924607   84.766846    1.403399
 0.004117    0.381774  121.482122
0.85914    8.924607   84.766846    1.403399
 0.004117    0.117888  116.112017
1.00000    8.924607   84.766846    1.403399
 0.004117    0.417866  124.224020

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -9.977237  -86.179188   -0.736770
-0.004887   -0.818213  -81.111849
0.57743   -9.977237  -86.179188   -0.736770
-0.004887   -0.509197   -56.388485
0.71829   -9.977237  -86.179188   -0.736770
-0.004887   -0.200108   -44.303767
0.85914   -9.977237  -86.179188   -0.736770
-0.004887   -0.219494   -38.200324
1.00000   -9.977237  -86.179188   -0.736770
-0.004887   -0.807366   -47.023657

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    0.562855   41.131440    0.470418
 0.000104    0.524723   73.096198
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3843

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
  T          M2          M3
0.57743    0.562855   41.131440    0.470418
 0.000104    0.327422   56.543531
0.71829    0.562855   41.131440    0.470418
 0.000104    0.130132   40.187023
0.85914    0.562855   41.131440    0.470418
 0.000104    0.031850   24.607921
1.00000    0.562855   41.131440    0.470418
 0.000104    0.123156   14.457958

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -6.067895  -0.697014   -0.217574
-0.000732   -0.241863   -4.515963
0.57743   -6.067895  -0.697014   -0.217574
-0.000732   -0.150606   -4.754274
0.71829   -6.067895  -0.697014   -0.217574
-0.000732   -0.059308   -5.807877
0.85914   -6.067895  -0.697014   -0.217574
-0.000732   -0.067174   -8.496182
1.00000   -6.067895  -0.697014   -0.217574
-0.000732   -0.264509   -12.287825

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    4.811288   91.189501    0.930713
 0.004831    1.017368  216.189734
0.57743    4.811288   91.189501    0.930713
 0.004831    0.631372  180.151104
0.71829    4.811288   91.189501    0.930713
 0.004831    0.252699  155.381396
0.85914    4.811288   91.189501    0.930713
 0.004831    0.065628  144.750733
1.00000    4.811288   91.189501    0.930713
 0.004831    0.205531  137.317228

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -8.862671  -59.714963   -0.363498
-0.005172   -0.504293   -21.514715
0.57743   -8.862671  -59.714963   -0.363498
-0.005172   -0.251832   -3.997768
0.71829   -8.862671  -59.714963   -0.363498
-0.005172   -0.099277   -3.506484
0.85914   -8.862671  -59.714963   -0.363498
-0.005172   -0.154771   -6.074116
1.00000   -8.862671  -59.714963   -0.363498
-0.005172   -0.544182   -9.590106

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    5.325259   97.337138    1.270810
 0.004366    1.396572  193.806504
0.57743    5.325259   97.337138    1.270810
 0.004366    0.867511  161.906798
0.71829    5.325259   97.337138    1.270810
 0.004366    0.345071  139.732496
0.85914    5.325259   97.337138    1.270810
 0.004366    0.177391  124.143699
1.00000    5.325259   97.337138    1.270810
 0.004366    0.348727  124.143828

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658  -11.125050  -54.036020   -0.615172
-0.005629   -0.683338   -28.689248
0.57743  -11.125050  -54.036020   -0.615172
-0.005629   -0.425317   -18.852401
0.71829  -11.125050  -54.036020   -0.615172
-0.005629   -0.167177   -24.543639
0.85914  -11.125050  -54.036020   -0.615172
-0.005629   -0.203407   -32.777021
1.00000  -11.125050  -54.036020   -0.615172
-0.005629   -0.735559   -41.801750
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3844

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658   10.518713  81.631220    1.366908
 0.003843    1.511158  164.986906
0.57743   10.518713  81.631220    1.366908
 0.003843    0.940474  137.829310
0.71829   10.518713  81.631220    1.366908
 0.003843    0.374189  117.174335
0.85914   10.518713  81.631220    1.366908
 0.003843    0.116043  105.274267
1.00000   10.518713  81.631220    1.366908
 0.003843    0.418160  109.567395

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -9.897516  -99.403215   -0.737902
-0.003923   -0.819774  -110.228771
0.57743   -9.897516  -99.403215   -0.737902
-0.003923   -0.510246   -78.182438
0.71829   -9.897516  -99.403215   -0.737902
-0.003923   -0.200667   -56.437031
0.85914   -9.897516  -99.403215   -0.737902
-0.003923   -0.209561   -36.610343
1.00000   -9.897516  -99.403215   -0.737902
-0.003923   -0.782214   -35.272345

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    9.585251   2.151862    0.472082
 0.001469    0.527771   5.729547
0.57743    9.585251   2.151862    0.472082
 0.001469    0.329838   4.887789
0.71829    9.585251   2.151862    0.472082
 0.001469    0.131959   4.062140
0.85914    9.585251   2.151862    0.472082
 0.001469    0.057803   3.269320
1.00000    9.585251   2.151862    0.472082
 0.001469    0.223466   2.489397

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -1.057425  -78.051346   -0.394788
-7.38E-06   -0.438877   -147.189810
0.57743   -1.057425  -78.051346   -0.394788
-7.38E-06   -0.273291   -114.500928
0.71829   -1.057425  -78.051346   -0.394788
-7.38E-06   -0.107686   -81.835631
0.85914   -1.057425  -78.051346   -0.394788
-7.38E-06   -0.066483   -49.174711
1.00000   -1.057425  -78.051346   -0.394788
-7.38E-06   -0.264333   -16.515094

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658   16.453853  27.230372    0.884429
 0.007623    0.962997   84.311606
0.57743   16.453853  27.230372    0.884429
 0.007623    0.597435   75.693997
0.71829   16.453853  27.230372    0.884429
 0.007623    0.240861   79.257040
0.85914   16.453853  27.230372    0.884429
 0.007623    0.094299  100.063542
1.00000   16.453853  27.230372    0.884429
 0.007623    0.305321  121.082086

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -2.367587 -166.265824   -0.539616
-0.005690   -0.599999   -188.261825
0.57743   -2.367587 -166.265824   -0.539616
-0.005690   -0.373668   -126.897991
0.71829   -2.367587 -166.265824   -0.539616
-0.005690   -0.147288   -85.403654
0.85914   -2.367587 -166.265824   -0.539616
-0.005690   -0.151358   -45.960206
1.00000   -2.367587 -166.265824   -0.539616
-0.005690   -0.520906   -6.555588
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3845

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658   14.024885  74.119429    1.194693
 0.005550    1.316400  185.409898
0.57743   14.024885  74.119429    1.194693
 0.005550    0.819036  156.264189
0.71829   14.024885  74.119429    1.194693
 0.005550    0.327844  135.482542
0.85914   14.024885  74.119429    1.194693
 0.005550    0.105114  126.693940
1.00000   14.024885  74.119429    1.194693
 0.005550    0.366265  118.414038

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -7.363250 -136.525476   -0.647478
-0.004104   -0.720001   -166.626423
0.57743   -7.363250 -136.525476   -0.647478
-0.004104   -0.448429   -115.357301
0.71829   -7.363250 -136.525476   -0.647478
-0.004104   -0.176762   -77.748250
0.85914   -7.363250 -136.525476   -0.647478
-0.004104   -0.187985   -41.596677
1.00000   -7.363250 -136.525476   -0.647478
-0.004104   -0.688094   -5.507852

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658   12.319884  78.286526    1.345477
 0.004600    1.486557  164.191543
0.57743   12.319884  78.286526    1.345477
 0.004600    0.925307  135.176054
0.71829   12.319884  78.286526    1.345477
 0.004600    0.369163  115.583159
0.85914   12.319884  78.286526    1.345477
 0.004600    0.120332  106.215404
1.00000   12.319884  78.286526    1.345477
 0.004600    0.430703   99.002119

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -9.586196 -113.584177   -0.760505
-0.004131   -0.845194   -143.289324
0.57743   -9.586196 -113.584177   -0.760505
-0.004131   -0.526215   -104.511527
0.71829   -9.586196 -113.584177   -0.760505
-0.004131   -0.207156   -67.668133
0.85914   -9.586196 -113.584177   -0.760505
-0.004131   -0.207347   -53.024891
1.00000   -9.586196 -113.584177   -0.760505
-0.004131   -0.770886   -29.111966

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    1.609744  18.840740    1.149718
 8.51E-06    1.274325    2.510492
0.57743    1.609744  18.840740    1.149718
 8.51E-06    0.791977    2.297458
0.71829    1.609744  18.840740    1.149718
 8.51E-06    0.309584    2.091263
0.85914    1.609744  18.840740    1.149718
 8.51E-06    0.105984    1.910757
1.00000    1.609744  18.840740    1.149718
 8.51E-06    0.405338    1.868411

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
  T          M2          M3
0.43658   -3.063027   -0.538926   -0.713470
-0.001369   -0.791546   -22.358453
0.57743   -3.063027   -0.538926   -0.713470
-0.001369   -0.492298   -29.588308
0.71829   -3.063027   -0.538926   -0.713470
-0.001369   -0.192884   -36.878619
0.85914   -3.063027   -0.538926   -0.713470
-0.001369   -0.171366   -44.182496
1.00000   -3.063027   -0.538926   -0.713470
-0.001369   -0.654015   -51.648581
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    3846

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
  T          M2          M3
0.43658    2.368427   44.892597    1.878373
 0.000148    2.087302   33.055814
0.57743    2.368427   44.892597    1.878373
 0.000148    1.299309   24.176798
0.71829    2.368427   44.892597    1.878373
 0.000148    0.511151   16.013357
0.85914    2.368427   44.892597    1.878373
 0.000148    0.176121    9.380543
1.00000    2.368427   44.892597    1.878373
 0.000148    0.669952    6.795290

COMB DL-G1-2 ------------------- MIN
```

```
REL DIST          P          V2          V3
     T          M2          M3
0.43658   -7.619239   -1.770597   -1.178429
-0.002254   -1.307302   -26.008324
0.57743   -7.619239   -1.770597   -1.178429
-0.002254   -0.813021   -34.854141
0.71829   -7.619239   -1.770597   -1.178429
-0.002254   -0.318702   -45.611098
0.85914   -7.619239   -1.770597   -1.178429
-0.002254   -0.274235   -57.859304
1.00000   -7.619239   -1.770597   -1.178429
-0.002254   -1.063069   -71.907661

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658    2.387799   92.174837    2.288473
 1.47E-05    2.545951   177.459233
0.57743    2.387799   92.174837    2.288473
 1.47E-05    1.585595   148.042043
0.71829    2.387799   92.174837    2.288473
 1.47E-05    0.625462   118.980879
0.85914    2.387799   92.174837    2.288473
 1.47E-05    0.192305   90.876503
1.00000    2.387799   92.174837    2.288473
 1.47E-05    0.736658   65.686302

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -10.569516   -2.143874   -1.297206
-0.001881   -1.440423   -22.842400
0.57743   -10.569516   -2.143874   -1.297206
-0.001881   -0.896672   -31.042781
0.71829   -10.569516   -2.143874   -1.297206
-0.001881   -0.352370   -40.291174
0.85914   -10.569516   -2.143874   -1.297206
-0.001881   -0.330861   -50.758920
1.00000   -10.569516   -2.143874   -1.297206
-0.001881   -1.291403   -62.489587

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658    7.942474   79.489401    2.462333
 0.003398    2.727812   167.631688
0.57743    7.942474   79.489401    2.462333
 0.003398    1.697506   143.981627
0.71829    7.942474   79.489401    2.462333
 0.003398    0.667983   127.028500
0.85914    7.942474   79.489401    2.462333
 0.003398    0.210068   121.071202
1.00000    7.942474   79.489401    2.462333
 0.003398    0.769943   127.902851

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -9.176850   -73.849111   -1.348506
-0.004179   -1.497672   -75.214793
0.57743   -9.176850   -73.849111   -1.348506
-0.004179   -0.932362   -53.683198
0.71829   -9.176850   -73.849111   -1.348506
-0.004179   -0.366427   -45.011312
0.85914   -9.176850   -73.849111   -1.348506
-0.004179   -0.371176   -42.523471
1.00000   -9.176850   -73.849111   -1.348506
-0.004179   -1.403458   -52.308530
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3847

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658    0.640020   37.008660    0.773883
 0.000101    0.864447   69.889974
0.57743    0.640020   37.008660    0.773883
 0.000101    0.539801   54.787183
0.71829    0.640020   37.008660    0.773883
 0.000101    0.215059   40.098727
0.85914    0.640020   37.008660    0.773883
 0.000101    0.068372   26.505609
1.00000    0.640020   37.008660    0.773883
 0.000101    0.257605   15.674111

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -5.408148   -0.437594   -0.452807
-0.000673   -0.502496   -4.247805
0.57743   -5.408148   -0.437594   -0.452807
-0.000673   -0.312611   -4.482386
0.71829   -5.408148   -0.437594   -0.452807
-0.000673   -0.122842   -5.705537
0.85914   -5.408148   -0.437594   -0.452807
-0.000673   -0.108374   -7.954330
1.00000   -5.408148   -0.437594   -0.452807
-0.000673   -0.433214   -11.406105

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658    4.310336   81.015514    1.423418
 0.004274    1.571643   212.252615
0.57743    4.310336   81.015514    1.423418
 0.004274    0.978890   180.879604
0.71829    4.310336   81.015514    1.423418
 0.004274    0.390008   158.804041
0.85914    4.310336   81.015514    1.423418
 0.004274    0.116355   148.721472
1.00000    4.310336   81.015514    1.423418
 0.004274    0.390936   141.366651

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -7.824726   -50.947612   -0.675938
-0.004478   -0.751652   -22.319512
0.57743   -7.824726   -50.947612   -0.675938
-0.004478   -0.468479   -3.692778
0.71829   -7.824726   -50.947612   -0.675938
-0.004478   -0.184741   -3.475734
0.85914   -7.824726   -50.947612   -0.675938
-0.004478   -0.222294   -5.625000
1.00000   -7.824726   -50.947612   -0.675938
-0.004478   -0.817493   -8.837038

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658    4.980609   89.897146    2.141913
 0.003868    2.370984   190.299288
0.57743    4.980609   89.897146    2.141913
 0.003868    1.476242   162.209085
0.71829    4.980609   89.897146    2.141913
 0.003868    0.584904   143.240174
0.85914    4.980609   89.897146    2.141913
 0.003868    0.186242   134.923243
1.00000    4.980609   89.897146    2.141913
 0.003868    0.663234   128.487282

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -10.170797   -46.261019   -1.156602
-0.005082   -1.284862   -28.926761
0.57743   -10.170797   -46.261019   -1.156602
-0.005082   -0.800129   -19.194146
0.71829   -10.170797   -46.261019   -1.156602
-0.005082   -0.314649   -26.180093
0.85914   -10.170797   -46.261019   -1.156602
-0.005082   -0.325945   -35.069760
1.00000   -10.170797   -46.261019   -1.156602
-0.005082   -1.223046   -44.703892
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3848

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658    9.256817   75.405635    2.391427
 0.003333    2.652657   161.055605
0.57743    9.256817   75.405635    2.391427
 0.003333    1.651820   137.168242
0.71829    9.256817   75.405635    2.391427
 0.003333    0.653108   119.231128
0.85914    9.256817   75.405635    2.391427
 0.003333    0.203757   108.748804
1.00000    9.256817   75.405635    2.391427
 0.003333    0.753541   113.674265

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -9.020444   -87.392125   -1.322242
-0.003399   -1.469036   -99.269116
0.57743   -9.020444   -87.392125   -1.322242
-0.003399   -0.914679   -70.460965
0.71829   -9.020444   -87.392125   -1.322242
-0.003399   -0.359819   -52.156976
0.85914   -9.020444   -87.392125   -1.322242
-0.003399   -0.357011   -36.344442
1.00000   -9.020444   -87.392125   -1.322242
-0.003399   -1.359462   -37.770695

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658    8.170923    2.006452    0.966689
0.001546    1.073978    5.800199
0.57743    8.170923    2.006452    0.966689
0.001546    0.668544    5.046207
0.71829    8.170923    2.006452    0.966689
0.001546    0.263207    4.303157
0.85914    8.170923    2.006452    0.966689
0.001546    0.089124    3.571033
1.00000    8.170923    2.006452    0.966689
0.001546    0.345897    2.850778

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -0.900885   -72.092813   -0.612289
-4.37E-06   -0.680439   -140.733347
0.57743   -0.900885   -72.092813   -0.612289
-4.37E-06   -0.423615   -110.594153
0.71829   -0.900885   -72.092813   -0.612289
-4.37E-06   -0.166742   -80.467958
0.85914   -0.900885   -72.092813   -0.612289
-4.37E-06   -0.142582   -50.322560
1.00000   -0.900885   -72.092813   -0.612289
-4.37E-06   -0.547977   -20.192795

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658   14.535858   23.094103    1.588800
 0.007806    1.742751   84.174821
0.57743   14.535858   23.094103    1.588800
 0.007806    1.082727   77.768619
0.71829   14.535858   23.094103    1.588800
 0.007806    0.428176   84.123769
0.85914   14.535858   23.094103    1.588800
 0.007806    0.147056   106.359222
1.00000   14.535858   23.094103    1.588800
 0.007806    0.490701   128.680917

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -1.979874   -155.459569   -0.849604
-0.005660   -0.944355   -180.831665
0.57743   -1.979874   -155.459569   -0.849604
-0.005660   -0.587864   -118.754983
0.71829   -1.979874   -155.459569   -0.849604
-0.005660   -0.231276   -81.542447
0.85914   -1.979874   -155.459569   -0.849604
-0.005660   -0.125935   -46.407711
1.00000   -1.979874   -155.459569   -0.849604
-0.005660   -0.926657   -11.327353
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3849

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658   12.517544   62.684910    2.039749
 0.005906    2.254156   176.249034
0.57743   12.517544   62.684910    2.039749
 0.005906    1.402858   152.421961
0.71829   12.517544   62.684910    2.039749
 0.005906    0.555932   137.806968
0.85914   12.517544   62.684910    2.039749
 0.005906    0.173772   134.778494
1.00000   12.517544   62.684910    2.039749
 0.005906    0.614701   132.061353

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -6.304416   -128.972259   -1.072804
-0.004270   -1.193075   -159.553769
0.57743   -6.304416   -128.972259   -1.072804
-0.004270   -0.742974   -107.916362
0.71829   -6.304416   -128.972259   -1.072804
-0.004270   -0.293029   -74.198710
0.85914   -6.304416   -128.972259   -1.072804
-0.004270   -0.316304   -41.955914
1.00000   -6.304416   -128.972259   -1.072804
-0.004270   -1.169792   -9.769748

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658   11.170324   69.913841    2.367686
 0.004907    2.622420   156.309789
0.57743   11.170324   69.913841    2.367686
 0.004907    1.632692   131.891212
0.71829   11.170324   69.913841    2.367686
 0.004907    0.646439   117.566666
0.85914   11.170324   69.913841    2.367686
 0.004907    0.209454   113.281935
1.00000   11.170324   69.913841    2.367686
 0.004907    0.758975   110.714975

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -8.563187   -107.449867   -1.328122
-0.004315   -1.475777   -137.021561
0.57743   -8.563187   -107.449867   -1.328122
-0.004315   -0.918619   -97.753395
0.71829   -8.563187   -107.449867   -1.328122
-0.004315   -0.361462   -74.947906
0.85914   -8.563187   -107.449867   -1.328122
-0.004315   -0.359051   -53.897594
1.00000   -8.563187   -107.449867   -1.328122
-0.004315   -1.351053   -33.523573

COMB DB ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658   16.453853   98.118614    1.403399
 0.007623    1.547216   216.189734
0.57743   16.453853   98.118614    1.403399
 0.007623    0.961797   180.715104
0.71829   16.453853   98.118614    1.403399
 0.007623    0.381774   155.381396
0.85914   16.453853   98.118614    1.403399
 0.007623    0.120332   144.750733
1.00000   16.453853   98.118614    1.403399
 0.007623    0.430703   137.317228

COMB DB ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -11.513907   -166.265824   -0.760505
-0.005690   -0.845194   -188.261825
0.57743   -11.513907   -166.265824   -0.760505
-0.005690   -0.526215   -126.897991
0.71829   -11.513907   -166.265824   -0.760505
-0.005690   -0.207156   -85.403654
0.85914   -11.513907   -166.265824   -0.760505
-0.005690   -0.219494   -53.024891
1.00000   -11.513907   -166.265824   -0.760505
-0.005690   -1.403466   -85.888058
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3850

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658   14.535858   92.174837    2.462333
 0.007806    2.727812   212.252615
0.57743   14.535858   92.174837    2.462333
 0.007806    1.697506   180.879604
0.71829   14.535858   92.174837    2.462333
 0.007806    0.667983   158.804041
0.85914   14.535858   92.174837    2.462333
 0.007806    0.210068   148.721472
1.00000   14.535858   92.174837    2.462333
 0.007806    0.769943   141.366651

COMB DL ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -10.569516   -155.459569   -1.348506
-0.005660   -1.497672   -180.831665
0.57743   -10.569516   -155.459569   -1.348506
-0.005660   -0.932362   -118.754983
0.71829   -10.569516   -155.459569   -1.348506
-0.005660   -0.366427   -81.542447
0.85914   -10.569516   -155.459569   -1.348506
-0.005660   -0.371176   -57.859304
1.00000   -10.569516   -155.459569   -1.348506
-0.005660   -1.403458   -71.907661

COMB CAR ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658   16.453853   98.118614    2.462333
 0.007806    2.727812   216.189734
0.57743   16.453853   98.118614    2.462333
 0.007806    1.697506   180.879604
0.71829   16.453853   98.118614    2.462333
 0.007806    0.669983   158.804041
0.85914   16.453853   98.118614    2.462333
 0.007806    0.210068   148.721472
1.00000   16.453853   98.118614    2.462333
 0.007806    0.769943   141.366651

COMB CAR ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -11.513907   -166.265824   -1.348506
-0.005690   -1.497672   -188.261825
0.57743   -11.513907   -166.265824   -1.348506
-0.005690   -0.932362   -126.897991
0.71829   -11.513907   -166.265824   -1.348506
-0.005690   -0.366427   -85.403654
0.85914   -11.513907   -166.265824   -1.348506
-0.005690   -0.371176   -57.859304
1.00000   -11.513907   -166.265824   -1.348506
-0.005690   -1.403458   -71.907661

COMB DESIGN ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.43658   16.453853   98.118614    2.462333
 0.007806    2.727812   216.189734
0.57743   16.453853   98.118614    2.462333
 0.007806    1.697506   180.879604
0.71829   16.453853   98.118614    2.462333
 0.007806    0.669983   158.804041
0.85914   16.453853   98.118614    2.462333
 0.007806    0.210068   148.721472
1.00000   16.453853   98.118614    2.462333
 0.007806    0.769943   141.366651

COMB DESIGN ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.43658   -11.513907   -166.265824   -1.348506
-0.005690   -1.497672   -188.261825
0.57743   -11.513907   -166.265824   -1.348506
-0.005690   -0.932362   -126.897991
0.71829   -11.513907   -166.265824   -1.348506
-0.005690   -0.366427   -85.403654
0.85914   -11.513907   -166.265824   -1.348506
-0.005690   -0.371176   -57.859304
1.00000   -11.513907   -166.265824   -1.348506
-0.005690   -1.403458   -71.907661
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3851

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      369 ================== LENGTH
=     2.976842

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    1.463831   16.956825    0.502409
 6.97E-06    0.275239    1.123483
0.14082    1.463831   16.956825    0.502409
 6.97E-06    0.064614    1.120337
0.28165    1.463831   16.956825    0.502409
 6.97E-06    0.102963    1.151523
0.42247    1.463831   16.956825    0.502409
 6.97E-06    0.256546    1.205460
0.56330    1.463831   16.956825    0.502409
 6.97E-06    0.410113    1.278347

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -3.022010   -0.396423   -0.366326
-0.000879   -0.204157   -44.900863
0.14082   -3.022010   -0.396423   -0.366326
-0.000879   -0.050523   -51.548605
0.28165   -3.022010   -0.396423   -0.366326
-0.000879   -0.146019   -58.343479
0.42247   -3.022010   -0.396423   -0.366326
-0.000879   -0.356616   -65.166982
0.56330   -3.022010   -0.396423   -0.366326
-0.000879   -0.567223   -72.067439

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    2.092389   44.344887    0.897939
 0.000187    0.496814    6.875018
0.14082    2.092389   44.344887    0.897939
 0.000187    0.120347    5.315038
0.28165    2.092389   44.344887    0.897939
 0.000187    0.164668    4.217549
0.42247    2.092389   44.344887    0.897939
 0.000187    0.410942    3.736842
0.56330    2.092389   44.344887    0.897939
 0.000187    0.657203    3.748477

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -7.991472   -0.529495   -0.587445
-0.001717   -0.327839   -65.894809
0.14082   -7.991472   -0.529495   -0.587445
-0.001717   -0.082131   -80.893764
0.28165   -7.991472   -0.529495   -0.587445
-0.001717   -0.256677   -96.874985
0.42247   -7.991472   -0.529495   -0.587445
-0.001717   -0.632693   -113.209366
0.56330   -7.991472   -0.529495   -0.587445
-0.001717   -1.008908   -130.713733

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    2.121078   97.561533    1.205995
 0.000163    0.668678   53.951495
0.14082    2.121078   97.561533    1.205995
 0.000163    0.163175   34.469992
0.28165    2.121078   97.561533    1.205995
 0.000163    0.187094   29.264828
0.42247    2.121078   97.561533    1.205995
 0.000163    0.466962   27.365606
0.56330    2.121078   97.561533    1.205995
 0.000163    0.746756   26.503278

COMB DB-G1-3 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -11.399996   -1.298598   -0.667424
-0.001825   -0.372399   -56.203016
0.14082   -11.399996   -1.298598   -0.667424
-0.001825   -0.092478   -66.912112
0.28165   -11.399996   -1.298598   -0.667424
-0.001825   -0.342597   -85.218703
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3852

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
0.42247   -11.399996   -1.298598   -0.667424
-0.001825   -0.848026   -124.472639
0.56330   -11.399996   -1.298598   -0.667424
-0.001825   -1.353585   -164.629766

COMB DB-G1-4 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    6.733489   119.326502    1.349994
 0.004020    0.765345   124.390260
0.14082    6.733489   119.326502    1.349994
 0.004020    0.200025   110.499178
0.28165    6.733489   119.326502    1.349994
 0.004020    0.200252   108.239720
0.42247    6.733489   119.326502    1.349994
 0.004020    0.500315   117.683979
0.56330    6.733489   119.326502    1.349994
 0.004020    0.800321   136.259933

COMB DB-G1-4 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -11.636175   -49.116125   -0.715633
-0.004941   -0.399598   -43.441961
0.14082   -11.636175   -49.116125   -0.715633
-0.004941   -0.111267   -55.968755
0.28165   -11.636175   -49.116125   -0.715633
-0.004941   -0.378218   -71.496800
0.42247   -11.636175   -49.116125   -0.715633
-0.004941   -0.936371   -103.818479
0.56330   -11.636175   -49.116125   -0.715633
-0.004941   -1.498382   -147.067873

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.575261   40.921791    0.460067
 9.84E-06    0.257443   14.441964
0.14082    0.575261   40.921791    0.460067
 9.84E-06    0.064599   10.107934
0.28165    0.575261   40.921791    0.460067
 9.84E-06    0.059287   8.993428
0.42247    0.575261   40.921791    0.460067
 9.84E-06    0.182285   8.549498
0.56330    0.575261   40.921791    0.460067
 9.84E-06    0.237251   8.322568

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -6.028868   -0.617161   -0.212214
-0.000687   -0.118589   -12.293826
0.14082   -6.028868   -0.617161   -0.212214
-0.000687   -0.029577   -18.088807
0.28165   -6.028868   -0.617161   -0.212214
-0.000687   -0.128387   -32.560350
0.42247   -6.028868   -0.617161   -0.212214
-0.000687   -0.321195   -48.736003
0.56330   -6.028868   -0.617161   -0.212214
-0.000687   -0.514032   -65.510868

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    1.742838   138.599609    0.910429
 0.005021    0.528682   137.566791
0.14082    1.742838   138.599609    0.910429
 0.005021    0.147931   95.016936
0.28165    1.742838   138.599609    0.910429
 0.005021    0.099316   67.841335
0.42247    1.742838   138.599609    0.910429
 0.005021    0.248464   56.389710
0.56330    1.742838   138.599609    0.910429
 0.005021    0.397527   57.275455

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -11.187843   -8.567636   -0.355572
-0.005650   -0.198701   -9.593864
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    3853

F R A M E   E L E M E N T   I N T E R N A
```

L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14082	-11.187843	-8.567636	-0.355572
-0.005650	-0.065569	-13.172355	
0.28165	-11.187843	-8.567636	-0.355572
-0.005650	-0.250655	-25.604130	
0.42247	-11.187843	-8.567636	-0.355572
-0.005650	-0.621671	-60.072437	
0.56330	-11.187843	-8.567636	-0.355572
-0.005650	-0.997963	-109.430042	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.562871	140.154573	1.217061
0.004537	0.698181	124.373069	
0.14082	2.562871	140.154573	1.217061
0.004537	0.185738	86.147422	
0.28165	2.562871	140.154573	1.217061
0.004537	0.167194	61.699046	
0.42247	2.562871	140.154573	1.217061
0.004537	0.417686	51.396766	
0.56330	2.562871	140.154573	1.217061
0.004537	0.668066	52.251498	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.198367	-7.824106	-0.597259
-0.005779	-0.333434	-41.816991	
0.14082	-13.198367	-7.824106	-0.597259
-0.005779	-0.097393	-50.889908	
0.28165	-13.198367	-7.824106	-0.597259
-0.005779	-0.339707	-68.475493	
0.42247	-13.198367	-7.824106	-0.597259
-0.005779	-0.840290	-105.737616	
0.56330	-13.198367	-7.824106	-0.597259
-0.005779	-1.345643	-156.389829	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.768849	109.627311	1.343208
0.003726	0.761578	109.684235	
0.14082	8.768849	109.627311	1.343208
0.003726	0.198957	107.358131	
0.28165	8.768849	109.627311	1.343208
0.003726	0.200926	117.045265	
0.42247	8.768849	109.627311	1.343208
0.003726	0.502737	136.797928	
0.56330	8.768849	109.627311	1.343208
0.003726	0.804449	164.056506	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.228076	-69.454387	-0.719758
-0.004071	-0.402381	-35.282286	
0.14082	-11.228076	-69.454387	-0.719758
-0.004071	-0.109967	-42.875919	
0.28165	-11.228076	-69.454387	-0.719758
-0.004071	-0.374120	-57.339457	
0.42247	-11.228076	-69.454387	-0.719758
-0.004071	-0.930871	-88.749913	
0.56330	-11.228076	-69.454387	-0.719758
-0.004071	-1.490774	-129.117913	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.652274	2.180577	0.506071
0.001330	0.285490	2.489225	
0.14082	9.652274	2.180577	0.506071
0.001330	0.073285	17.895331	
0.28165	9.652274	2.180577	0.506071
0.001330	0.108097	50.384823	
0.42247	9.652274	2.180577	0.506071
0.001330	0.271541	83.088464	
0.56330	9.652274	2.180577	0.506071
0.001330	0.434966	115.866688	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3854
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.043341	-78.337469	-0.389839
-1.74E-05	-0.218733	-16.551423	
0.14082	-1.043341	-78.337469	-0.389839
-1.74E-05	-0.055241	-4.953194	
0.28165	-1.043341	-78.337469	-0.389839
-1.74E-05	-0.113830	-9.354700	
0.42247	-1.043341	-78.337469	-0.389839
-1.74E-05	-0.350973	-3.447128	
0.56330	-1.043341	-78.337469	-0.389839
-1.74E-05	-0.563115	-3.727878	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.770994	85.484501	0.917214
0.007403	0.539549	121.423672	
0.14082	12.770994	85.484501	0.917214
0.007403	0.155977	120.456822	
0.28165	12.770994	85.484501	0.917214
0.007403	0.147809	131.181475	
0.42247	12.770994	85.484501	0.917214
0.007403	0.371021	158.739579	
0.56330	12.770994	85.484501	0.917214
0.007403	0.594185	200.431922	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.266308	-104.514433	-0.532343
-0.005836	-0.298465	-6.599439	
0.14082	-5.266308	-104.514433	-0.532343
-0.005836	-0.094757	-3.495091	
0.28165	-5.266308	-104.514433	-0.532343
-0.005836	-0.248864	-2.913629	
0.42247	-5.266308	-104.514433	-0.532343
-0.005836	-0.620553	-6.375039	
0.56330	-5.266308	-104.514433	-0.532343
-0.005836	-0.998521	-31.336406	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.537512	113.804301	1.214724
0.005481	0.698133	118.621715	
0.14082	11.537512	113.804301	1.214724
0.005481	0.189643	113.620496	
0.28165	11.537512	113.804301	1.214724
0.005481	0.177202	127.134745	
0.42247	11.537512	113.804301	1.214724
0.005481	0.444356	153.936992	
0.56330	11.537512	113.804301	1.214724
0.005481	0.711416	191.131167	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.291827	-94.219678	-0.637054
-0.004576	-0.356815	-5.545956	
0.14082	-9.291827	-94.219678	-0.637054
-0.004576	-0.102980	-3.809633	
0.28165	-9.291827	-94.219678	-0.637054
-0.004576	-0.333710	-12.145098	
0.42247	-9.291827	-94.219678	-0.637054
-0.004576	-0.834028	-40.221334	
0.56330	-9.291827	-94.219678	-0.637054
-0.004576	-1.338767	-80.429174	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.272644	110.970559	1.342996
0.004543	0.765311	99.173992	
0.14082	10.272644	110.970559	1.342996
0.004543	0.202863	94.389281	
0.28165	10.272644	110.970559	1.342996
0.004543	0.207524	106.295909	
0.42247	10.272644	110.970559	1.342996
0.004543	0.519754	128.684327	
0.56330	10.272644	110.970559	1.342996
0.004543	0.831908	159.672136	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3855
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.157599	-78.604075	-0.744618
-0.004353	-0.416691	-29.154724	
0.14082	-11.157599	-78.604075	-0.744618
-0.004353	-0.115459	-33.982735	
0.28165	-11.157599	-78.604075	-0.744618
-0.004353	-0.371770	-46.663720	
0.42247	-11.157599	-78.604075	-0.744618
-0.004353	-0.927402	-76.257264	
0.56330	-11.157599	-78.604075	-0.744618
-0.004353	-1.486689	-116.266246	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.623051	18.798885	1.061408
4.04E-06	0.585504	1.871958	
0.14082	1.623051	18.798885	1.061408
4.04E-06	0.140229	2.011704	
0.28165	1.623051	18.798885	1.061408
4.04E-06	0.192721	2.194376	
0.42247	1.623051	18.798885	1.061408
4.04E-06	0.480309	2.390541	
0.56330	1.623051	18.798885	1.061408
4.04E-06	0.767828	2.597650	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.037880	-0.523093	-0.685746
-0.000965	-0.381944	-51.669166	
0.14082	-3.037880	-0.523093	-0.685746
-0.000965	-0.094287	-59.258456	
0.28165	-3.037880	-0.523093	-0.685746
-0.000965	-0.303485	-66.912951	
0.42247	-3.037880	-0.523093	-0.685746
-0.000965	-0.748501	-74.661464	
0.56330	-3.037880	-0.523093	-0.685746
-0.000965	-1.193598	-82.429011	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.324080	45.761876	1.797980
0.000112	1.001045	6.797073	
0.14082	2.324080	45.761876	1.797980
0.000112	0.246439	5.555642	
0.28165	2.324080	45.761876	1.797980
0.000112	0.318192	4.897721	
0.42247	2.324080	45.761876	1.797980
0.000112	0.793578	4.647077	
0.56330	2.324080	45.761876	1.797980
0.000112	1.269010	4.662657	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.628979	-0.660006	-1.133937
-0.001791	-0.632603	-71.942184	
0.14082	-7.628979	-0.660006	-1.133937
-0.001791	-0.157159	-88.001231	
0.28165	-7.628979	-0.660006	-1.133937
-0.001791	-0.504527	-104.977565	
0.42247	-7.628979	-0.660006	-1.133937
-0.001791	-1.256691	-122.772629	
0.56330	-7.628979	-0.660006	-1.133937
-0.001791	-2.012530	-141.401395	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.424939	91.723035	2.218653
0.000174	1.237425	65.657192	
0.14082	2.424939	91.723035	2.218653
0.000174	0.306883	45.659482	
0.28165	2.424939	91.723035	2.218653
0.000174	0.351921	33.134091	
0.42247	2.424939	91.723035	2.218653
0.000174	0.877601	29.812241	
0.56330	2.424939	91.723035	2.218653
0.000174	1.402840	28.719523	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3856
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.474985	-2.095923	-1.253563
-0.001864	-0.699909	-62.516970	
0.14082	-10.474985	-2.095923	-1.253563
-0.001864	-0.173640	-74.814513	
0.28165	-10.474985	-2.095923	-1.253563
-0.001864	-0.619946	-92.653161	
0.42247	-10.474985	-2.095923	-1.253563
-0.001864	-1.550182	-127.332363	
0.56330	-10.474985	-2.095923	-1.253563
-0.001864	-2.480698	-164.090688	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.284389	105.431011	2.392845
0.003184	1.347268	127.880900	
0.14082	6.284389	105.431011	2.392845
0.003184	0.344775	116.604207	
0.28165	6.284389	105.431011	2.392845
0.003184	0.366389	111.482590	
0.42247	6.284389	105.431011	2.392845
0.003184	0.915335	120.601327	
0.56330	6.284389	105.431011	2.392845
0.003184	1.463860	136.642153	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.518940	-46.487942	-1.309162
-0.004216	-0.738983	-52.329790	
0.14082	-10.518940	-46.487942	-1.309162
-0.004216	-0.194598	-62.588176	
0.28165	-10.518940	-46.487942	-1.309162
-0.004216	-0.667276	-77.582401	
0.42247	-10.518940	-46.487942	-1.309162
-0.004216	-1.665592	-106.240000	
0.56330	-10.518940	-46.487942	-1.309162
-0.004216	-2.665445	-145.915842	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.652552	36.958748	0.791735
5.70E-06	0.447073	15.658137	
0.14082	0.652552	36.958748	0.791735
5.70E-06	0.114700	9.556874	
0.28165	0.652552	36.958748	0.791735
5.70E-06	0.122531	7.989254	
0.42247	0.652552	36.958748	0.791735
5.70E-06	0.306028	7.357133	
0.56330	0.652552	36.958748	0.791735
5.70E-06	0.489623	7.058201	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.381844	-0.403431	-0.437895
-0.000656	-0.244852	-11.412693	
0.14082	-5.381844	-0.403431	-0.437895
-0.000656	-0.061320	-16.873040	
0.28165	-5.381844	-0.403431	-0.437895
-0.000656	-0.215497	-29.982141	
0.42247	-5.381844	-0.403431	-0.437895
-0.000656	-0.547554	-44.452707	
0.56330	-5.381844	-0.403431	-0.437895
-0.000656	-0.879630	-59.399065	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.701026	120.700930	1.431224
0.004278	0.823408	141.361859	
0.14082	1.701026	120.700930	1.431224
0.004278	0.224510	101.826985	
0.28165	1.701026	120.700930	1.431224
0.004278	0.184572	70.695221	
0.42247	1.701026	120.700930	1.431224
0.004278	0.460684	59.743314	
0.56330	1.701026	120.700930	1.431224
0.004278	0.736784	58.613306	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3857
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.925010	-8.793880	-0.659294
-0.004928	-0.380642	-8.842581	
0.14082	-9.925010	-8.793880	-0.659294
-0.004928	-0.111022	-12.509484	
0.28165	-9.925010	-8.793880	-0.659294
-0.004928	-0.390707	-23.714706	
0.42247	-9.925010	-8.793880	-0.659294
-0.004928	-0.983200	-52.111844	
0.56330	-9.925010	-8.793880	-0.659294
-0.004928	-1.577892	-96.542146	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.630316	125.776807	2.106711
0.003871	1.195786	128.487542	
0.14082	2.630316	125.776807	2.106711
0.003871	0.312865	92.835115	
0.28165	2.630316	125.776807	2.106711
0.003871	0.314330	64.880725	
0.42247	2.630316	125.776807	2.106711
0.003871	0.784480	55.159292	
0.56330	2.630316	125.776807	2.106711
0.003871	1.254145	54.228339	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.048022	-8.127506	-1.121265
-0.005177	-0.636836	-44.725949	
0.14082	-12.048022	-8.127506	-1.121265
-0.005177	-0.172750	-54.749365	
0.28165	-12.048022	-8.127506	-1.121265
-0.005177	-0.582184	-72.033999	
0.42247	-12.048022	-8.127506	-1.121265
-0.005177	-1.439892	-104.623016	
0.56330	-12.048022	-8.127506	-1.121265
-0.005177	-2.337449	-151.689013	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.903858	96.929487	2.356390
0.003082	1.328368	113.636832	
0.14082	7.903858	96.929487	2.356390
0.003082	0.340805	112.162715	
0.28165	7.903858	96.929487	2.356390
0.003082	0.360011	117.167284	
0.42247	7.903858	96.929487	2.356390
0.003082	0.900447	135.441299	
0.56330	7.903858	96.929487	2.356390
0.003082	1.440086	159.501277	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.122936	-64.765071	-1.288610
-0.003474	-0.726737	-37.785958	
0.14082	-10.122936	-64.765071	-1.288610
-0.003474	-0.190441	-46.186999	
0.28165	-10.122936	-64.765071	-1.288610
-0.003474	-0.654075	-60.452754	
0.42247	-10.122936	-64.765071	-1.288610
-0.003474	-1.637933	-87.951498	
0.56330	-10.122936	-64.765071	-1.288610
-0.003474	-2.623003	-124.640650	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.227270	1.991255	0.963254
0.001319	0.539018	2.849894	
0.14082	8.227270	1.991255	0.963254
0.001319	0.173954	15.828693	
0.28165	8.227270	1.991255	0.963254
0.001319	0.167449	44.583791	
0.42247	8.227270	1.991255	0.963254
0.001319	0.421249	74.037357	
0.56330	8.227270	1.991255	0.963254
0.001319	0.675098	103.841583	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3858
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.887670	-72.242389	-0.605325
-1.29E-05	-0.339024	-20.229655	
0.14082	-0.887670	-72.242389	-0.605325
-1.29E-05	-0.085738	-5.369975	
0.28165	-0.887670	-72.242389	-0.605325
-1.29E-05	-0.268744	-4.042662	
0.42247	-0.887670	-72.242389	-0.605325
-1.29E-05	-0.672528	-3.790618	
0.56330	-0.887670	-72.242389	-0.605325
-1.29E-05	-1.076274	-4.182661	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.867630	79.787139	1.570225
0.007301	0.904692	128.719677	
0.14082	10.867630	79.787139	1.570225
0.007301	0.249113	124.229432	
0.28165	10.867630	79.787139	1.570225
0.007301	0.232247	130.448071	
0.42247	10.867630	79.787139	1.570225
0.007301	0.584403	152.848193	
0.56330	10.867630	79.787139	1.570225
0.007301	0.936482	187.822425	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.029028	-95.954687	-0.840084
-0.005861	-0.486746	-11.369481	
0.14082	-5.029028	-95.954687	-0.840084
-0.005861	-0.145136	-3.988802	
0.28165	-5.029028	-95.954687	-0.840084
-0.005861	-0.434421	-3.407518	
0.42247	-5.029028	-95.954687	-0.840084
-0.005861	-1.082183	-6.736071	
0.56330	-5.029028	-95.954687	-0.840084
-0.005861	-1.732553	-32.532324	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.905048	103.423691	2.038040
0.005600	1.161559	132.063238	
0.14082	9.905048	103.423691	2.038040
0.005600	0.309464	120.799434	
0.28165	9.905048	103.423691	2.038040
0.005600	0.293760	123.781329	
0.42247	9.905048	103.423691	2.038040
0.005600	0.736616	145.711784	
0.56330	9.905048	103.423691	2.038040
0.005600	1.179575	177.167029	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.459166	-86.119442	-1.056824
-0.004704	-0.603889	-9.808038	
0.14082	-8.459166	-86.119442	-1.056824
-0.004704	-0.168161	-4.152405	
0.28165	-8.459166	-86.119442	-1.056824
-0.004704	-0.562054	-11.766850	
0.42247	-8.459166	-86.119442	-1.056824
-0.004704	-1.408811	-33.157523	
0.56330	-8.459166	-86.119442	-1.056824
-0.004704	-2.257646	-70.353624	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.011990	103.641128	2.353463
0.004652	1.334646	110.718467	
0.14082	9.011990	103.641128	2.353463
0.004652	0.349279	101.501931	
0.28165	9.011990	103.641128	2.353463
0.004652	0.361788	104.003808	
0.42247	9.011990	103.641128	2.353463
0.004652	0.905826	122.315170	
0.56330	9.011990	103.641128	2.353463
0.004652	1.449895	148.567858	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3859
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.330345	-71.903646	-1.297945
-0.004501	-0.735954	-33.569844	
0.14082	-10.330345	-71.903646	-1.297945
-0.004501	-0.197760	-35.657384	
0.28165	-10.330345	-71.903646	-1.297945
-0.004501	-0.650019	-48.585083	
0.42247	-10.330345	-71.903646	-1.297945
-0.004501	-1.330725	-73.403942	
0.56330	-10.330345	-71.903646	-1.297945
-0.004501	-2.612776	-111.528031	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.770994	140.154573	1.349994
0.007403	0.765345	137.566791	
0.14082	12.770994	140.154573	1.349994
0.007403	0.202863	120.456822	
0.28165	12.770994	140.154573	1.349994
0.007403	0.207524	131.181475	
0.42247	12.770994	140.154573	1.349994
0.007403	0.519754	158.739579	
0.56330	12.770994	140.154573	1.349994
0.007403	0.831908	200.431922	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-13.198367	-104.514433	-0.744618
-0.005836	-0.416691	-65.894809	
0.14082	-13.198367	-104.514433	-0.744618
-0.005836	-0.115459	-80.893764	
0.28165	-13.198367	-104.514433	-0.744618
-0.005836	-0.378218	-96.874985	
0.42247	-13.198367	-104.514433	-0.744618
-0.005836	-0.936371	-124.472639	
0.56330	-13.198367	-104.514433	-0.744618
-0.005836	-1.498382	-164.629766	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.867630	125.776807	2.392845
0.007301	1.347268	141.361859	
0.14082	10.867630	125.776807	2.392845
0.007301	0.344775	116.604207	
0.28165	10.867630	125.776807	2.392845
0.007301	0.366389	130.448071	
0.42247	10.867630	125.776807	2.392845
0.007301	0.915335	152.848193	
0.56330	10.867630	125.776807	2.392845
0.007301	1.463860	187.822425	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.048022	-95.954687	-1.309162
-0.005861	-0.738983	-71.942184	
0.14082	-12.048022	-95.954687	-1.309162
-0.005861	-0.197760	-88.001231	
0.28165	-12.048022	-95.954687	-1.309162
-0.005861	-0.667276	-104.977565	
0.42247	-12.048022	-95.954687	-1.309162
-0.005861	-1.665592	-127.332363	
0.56330	-12.048022	-95.954687	-1.309162
-0.005861	-2.665445	-164.090688	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.770994	140.154573	2.392845

```
 0.007403    1.347268  141.361859
0.14082    12.770994  140.154573     2.392845
 0.007403    0.349279  124.297432
0.28165    12.770994  140.154573     2.392845
 0.007403    0.366389  131.181475
0.42247    12.770994  140.154573     2.392845
 0.007403    0.915335  158.739579
0.56330    12.770994  140.154573     2.392845
 0.007403    1.463860  200.431922
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3860

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -13.198367  -104.514433     -1.309162
-0.005861    -0.738983    -71.942184
0.14082   -13.198367  -104.514433     -1.309162
-0.005861    -0.197760    -88.001231
0.28165   -13.198367  -104.514433     -1.309162
-0.005861    -0.667276  -104.977565
0.42247   -13.198367  -104.514433     -1.309162
-0.005861    -1.665592  -127.332363
0.56330   -13.198367  -104.514433     -1.309162
-0.005861    -2.665445  -164.629766

COMB   DESIGN  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000    12.770994   140.154573     2.392845
 0.007403    1.347268  141.361859
0.14082    12.770994   140.154573     2.392845
 0.007403    0.349279  124.297432
0.28165    12.770994   140.154573     2.392845
 0.007403    0.366389  131.181475
0.42247    12.770994   140.154573     2.392845
 0.007403    0.915335  158.739579
0.56330    12.770994   140.154573     2.392845
 0.007403    1.463860  200.431922

COMB   DESIGN  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -13.198367  -104.514433     -1.309162
-0.005861    -0.738983    -71.942184
0.14082   -13.198367  -104.514433     -1.309162
-0.005861    -0.197760    -88.001231
0.28165   -13.198367  -104.514433     -1.309162
-0.005861    -0.667276  -104.977565
0.42247   -13.198367  -104.514433     -1.309162
-0.005861    -1.665592  -127.332363
0.56330   -13.198367  -104.514433     -1.309162
-0.005861    -2.665445  -164.629766

ELEM      370  ================== LENGTH
=     2.976491

COMB DB-G1-1  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    3.582373     2.192567     0.629502
 9.91E-06    0.704566    2.895843
0.57757    3.582373     2.192567     0.629502
 9.91E-06    0.440733    2.103588
0.71838    3.582373     2.192567     0.629502
 9.91E-06    0.176899    1.416241
0.85919    3.582373     2.192567     0.629502
 9.91E-06    0.051020    1.334540
1.00000    3.582373     2.192567     0.629502
 9.91E-06    0.205554    1.359851

COMB DB-G1-1  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -0.721536   -4.614498     -0.368504
-0.001707    -0.412238    -26.610840
0.57757   -0.721536   -4.614498     -0.368504
-0.001707    -0.257790    -26.811993
0.71838   -0.721536   -4.614498     -0.368504
-0.001707    -0.103327    -27.099924
0.85919   -0.721536   -4.614498     -0.368504
-0.001707    -0.086950    -27.403163
1.00000   -0.721536   -4.614498     -0.368504
-0.001707    -0.350803    -27.763428

COMB DB-G1-2  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    4.855510    16.076146     1.117875
 0.000197    1.254940    19.881679
0.57757    4.855510    16.076146     1.117875
 0.000197    0.786543    14.360242
0.71838    4.855510    16.076146     1.117875
 0.000197    0.318146    9.050462
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3861

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.85919    4.855510    16.076146     1.117875
 0.000197    0.081688    6.927873
1.00000    4.855510    16.076146     1.117875
 0.000197    0.328292    7.383329

COMB DB-G1-2  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -5.249759   -9.940775     -0.589400
-0.002952    -0.659825    -44.113806
0.57757   -5.249759   -9.940775     -0.589400
-0.002952    -0.412794    -44.388530
0.71838   -5.249759   -9.940775     -0.589400
-0.002952    -0.165734    -45.710266
0.85919   -5.249759   -9.940775     -0.589400
-0.002952    -0.151072    -47.636838
1.00000   -5.249759   -9.940775     -0.589400
-0.002952    -0.619608    -50.056270

COMB DB-G1-3  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    4.504357    67.805301     1.498367
 6.03E-06    1.684696   147.236804
0.57757    4.504357    67.805301     1.498367
 6.03E-06    1.056700   119.596263
0.71838    4.504357    67.805301     1.498367
 6.03E-06    0.428704    92.107885
0.85919    4.504357    67.805301     1.498367
 6.03E-06    0.094132    66.654936
1.00000    4.504357    67.805301     1.498367
 6.03E-06    0.383110    43.979972

COMB DB-G1-3  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -8.985014   -9.754471     -0.689091
-0.002530    -0.772117    -35.423833
0.57757   -8.985014   -9.754471     -0.689091
-0.002530    -0.483304    -35.989248
0.71838   -8.985014   -9.754471     -0.689091
-0.002530    -0.194404    -36.806372
0.85919   -8.985014   -9.754471     -0.689091
-0.002530    -0.199277    -37.978222
1.00000   -8.985014   -9.754471     -0.689091
-0.002530    -0.827316    -39.542856

COMB DB-G1-4  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676   10.659505    60.859480     1.647881
 0.003913    1.847316   140.768876
0.57757   10.659505    60.859480     1.647881
 0.003913    1.159110   116.863493
0.71838   10.659505    60.859480     1.647881
 0.003913    0.470959   100.082164
0.85919   10.659505    60.859480     1.647881
 0.003913    0.110778    98.270080
1.00000   10.659505    60.859480     1.647881
 0.003913    0.408772   108.095464

COMB DB-G1-4  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -8.297999   -84.961842     -0.735636
-0.005204    -0.824507    -87.643939
0.57757   -8.297999   -84.961842     -0.735636
-0.005204    -0.516181    -59.628432
0.71838   -8.297999   -84.961842     -0.735636
-0.005204    -0.207790    -43.124010
0.85919   -8.297999   -84.961842     -0.735636
-0.005204    -0.233499    -31.749971
1.00000   -8.297999   -84.961842     -0.735636
-0.005204    -0.923790    -33.057098

COMB DB-G2-1  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    0.902201    28.590894     0.566972
 1.42E-05    0.639831    50.414000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3862

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.57757    0.902201    28.590894     0.566972
 1.42E-05    0.402205    38.778256
0.71838    0.902201    28.590894     0.566972
 1.42E-05    0.164578    27.729765
0.85919    0.902201    28.590894     0.566972
 1.42E-05    0.030051    18.318454
1.00000    0.902201    28.590894     0.566972
 1.42E-05    0.123377    12.937769

COMB DB-G2-1  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -6.789615   -4.155747     -0.222564
-0.000961    -0.249744    -13.564915
0.57757   -6.789615   -4.155747     -0.222564
-0.000961    -0.156462    -13.350486
0.71838   -6.789615   -4.155747     -0.222564
-0.000961    -0.063155    -13.450251
0.85919   -6.789615   -4.155747     -0.222564
-0.000961    -0.073060    -13.887916
1.00000   -6.789615   -4.155747     -0.222564
-0.000961    -0.310705    -14.987396

COMB DB-G2-2  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    5.329309    75.144443     1.102693
 0.004320    1.234423   177.473103
0.57757    5.329309    75.144443     1.102693
 0.004320    0.775607   147.178148
0.71838    5.329309    75.144443     1.102693
 0.004320    0.316819   126.140008
0.85919    5.329309    75.144443     1.102693
 0.004320    0.065732   121.726864
1.00000    5.329309    75.144443     1.102693
 0.004320    0.211973   120.880847

COMB DB-G2-2  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -9.523292   -62.104479     -0.383030
-0.005035    -0.430143    -30.420308
0.57757   -9.523292   -62.104479     -0.383030
-0.005035    -0.269607    -11.856037
0.71838   -9.523292   -62.104479     -0.383030
-0.005035    -0.108972    -9.040784
0.85919   -9.523292   -62.104479     -0.383030
-0.005035    -0.164113    -19.652921
1.00000   -9.523292   -62.104479     -0.383030
-0.005035    -0.625795    -10.565006

COMB DB-G2-3  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    7.091784    71.157459     1.489323
 0.003904    1.668532   160.329016
0.57757    7.091784    71.157459     1.489323
 0.003904    1.047348   132.921549
0.71838    7.091784    71.157459     1.489323
 0.003904    0.426189   113.901991
0.85919    7.091784    71.157459     1.489323
 0.003904    0.097719   110.143900
1.00000    7.091784    71.157459     1.489323
 0.003904    0.346087   109.372606

COMB DB-G2-3  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -10.312938   -59.527528     -0.623342
-0.005820    -0.698914    -46.895616
0.57757   -10.312938   -59.527528     -0.623342
-0.005820    -0.437657    -30.809011
0.71838   -10.312938   -59.527528     -0.623342
-0.005820    -0.176275    -28.911516
0.85919   -10.312938   -59.527528     -0.623342
-0.005820    -0.214985    -30.259260
1.00000   -10.312938   -59.527528     -0.623342
-0.005820    -0.838756    -31.883036
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3863

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    10.892611    63.073905     1.632484
 0.003837    1.833393   137.606369
0.57757    10.892611    63.073905     1.632484
 0.003837    1.151201   113.245296
0.71838    10.892611    63.073905     1.632484
 0.003837    0.469053    96.280499
0.85919    10.892611    63.073905     1.632484
 0.003837    0.108599    89.627001
1.00000    10.892611    63.073905     1.632484
 0.003837    0.408867    93.650952

COMB DB-G2-4  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -9.911313   -90.397838     -0.736418
-0.004166    -0.825670    -106.951730
0.57757   -9.911313   -90.397838     -0.736418
-0.004166    -0.516991    -75.646258
0.71838   -9.911313   -90.397838     -0.736418
-0.004166    -0.208254    -53.680815
0.85919   -9.911313   -90.397838     -0.736418
-0.004166    -0.226453    -33.909425
1.00000   -9.911313   -90.397838     -0.736418
-0.004166    -0.910345    -28.045891

COMB DB-G3-1  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    7.240688    8.506866     0.598825
 0.001977    0.676152    6.106334
0.57757    7.240688    8.506866     0.598825
 0.001977    0.425194    4.487690
0.71838    7.240688    8.506866     0.598825
 0.001977    0.174237    3.693894
0.85919    7.240688    8.506866     0.598825
 0.001977    0.051904    2.962740
1.00000    7.240688    8.506866     0.598825
 0.001977    0.212423    2.637308

COMB DB-G3-1  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -2.353380   -52.195835     -0.382830
-1.03E-05    -0.429388    -108.208451
0.57757   -2.353380   -52.195835     -0.382830
-1.03E-05    -0.268935    -86.369523
0.71838   -2.353380   -52.195835     -0.382830
-1.03E-05    -0.108463    -64.552347
0.85919   -2.353380   -52.195835     -0.382830
-1.03E-05    -0.077065    -42.785732
1.00000   -2.353380   -52.195835     -0.382830
-1.03E-05    -0.327987    -21.564222

COMB DB-G3-2  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676   14.368378   32.745344     1.076949
 0.007590    1.203847    79.977809
0.57757   14.368378   32.745344     1.076949
 0.007590    0.756581    68.096394
0.71838   14.368378   32.745344     1.076949
 0.007590    0.309359    69.795855
0.85919   14.368378   32.745344     1.076949
 0.007590    0.089898    90.031530
1.00000   14.368378   32.745344     1.076949
 0.007590    0.297130    111.264777

COMB DB-G3-2  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -3.817207   -136.131416     -0.535979
-0.005238    -0.601429    -150.370416
0.57757   -3.817207   -136.131416     -0.535979
-0.005238    -0.376788    -99.873574
0.71838   -3.817207   -136.131416     -0.535979
-0.005238    -0.152098    -68.244454
0.85919   -3.817207   -136.131416     -0.535979
-0.005238    -0.165256    -40.486557
1.00000   -3.817207   -136.131416     -0.535979
-0.005238    -0.615948    -14.167512
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3864

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676   12.080264   69.950360     1.454134
 0.005642    1.632895   157.099891
0.57757   12.080264   69.950360     1.454134
 0.005642    1.026263   129.204908
0.71838   12.080264   69.950360     1.454134
 0.005642    0.419656   111.172598
0.85919   12.080264   69.950360     1.454134
 0.005642    0.100242   106.416331
1.00000   12.080264   69.950360     1.454134
 0.005642    0.362866   103.794648

COMB DB-G3-3  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -9.030892   -112.392779     -0.654890
-0.003903    -0.735029    -131.839217
0.57757   -9.030892   -112.392779     -0.654890
-0.003903    -0.460549    -90.599290
0.71838   -9.030892   -112.392779     -0.654890
-0.003903    -0.185966    -62.314054
0.85919   -9.030892   -112.392779     -0.654890
-0.003903    -0.089612    -36.709681
1.00000   -9.030892   -112.392779     -0.654890
-0.003903    -0.814800    -12.662148

COMB DB-G3-4  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676   11.461311   64.751520     1.623282
 0.004679    1.823799   135.246905
0.57757   11.461311   64.751520     1.623282
 0.004679    1.145784   110.471527
0.71838   11.461311   64.751520     1.623282
 0.004679    0.467788    94.010936
0.85919   11.461311   64.751520     1.623282
 0.004679    0.112837    89.284723
1.00000   11.461311   64.751520     1.623282
 0.004679    0.421225    87.317511

COMB DB-G3-4  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -10.815334   -96.181580     -0.759169
-0.004242    -0.851492    -126.580677
0.57757   -10.815334   -96.181580     -0.759169
-0.004242    -0.533307    -92.868283
0.71838   -10.815334   -96.181580     -0.759169
-0.004242    -0.215037    -70.112745
0.85919   -10.815334   -96.181580     -0.759169
-0.004242    -0.225780    -49.751509
1.00000   -10.815334   -96.181580     -0.759169
-0.004242    -0.905771    -30.975020

COMB DL-G1-1  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    4.547260    3.100795     1.229467
7.26E-06    1.375407    4.248685
0.57757    4.547260    3.100795     1.229467
7.26E-06    1.060607    3.478345
0.71838    4.547260    3.100795     1.229467
7.26E-06    0.344507    2.838608
0.85919    4.547260    3.100795     1.229467
7.26E-06    0.097269    2.219487
1.00000    4.547260    3.100795     1.229467
7.26E-06    0.393479    1.904671

COMB DL-G1-1  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -1.299687   -4.703103     -0.706335
-0.001929    -0.790562    -32.778144
0.57757   -1.299687   -4.703103     -0.706335
-0.001929    -0.494520    -31.789454
0.71838   -1.299687   -4.703103     -0.706335
-0.001929    -0.198326    -30.827978
0.85919   -1.299687   -4.703103     -0.706335
-0.001929    -0.169440    -29.979270
1.00000   -1.299687   -4.703103     -0.706335
-0.001929    -0.685070    -29.367843
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3865

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    5.836996    15.627896     2.083658
 0.000133    2.338539    19.878020
0.57757    5.836996    15.627896     2.083658
 0.000133    1.465154    14.621932
0.71838    5.836996    15.627896     2.083658
 0.000133    0.591359    9.984951
0.85919    5.836996    15.627896     2.083658
 0.000133    0.160756    7.036867
1.00000    5.836996    15.627896     2.083658
 0.000133    0.650254    7.005372

COMB DL-G1-2  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -5.558222   -8.879539     -1.168060
-0.003217    -1.308286    -48.625673
0.57757   -5.558222   -8.879539     -1.168060
-0.003217    -0.818670    -47.230143
0.71838   -5.558222   -8.879539     -1.168060
-0.003217    -0.328973    -46.663495
0.85919   -5.558222   -8.879539     -1.168060
-0.003217    -0.279688    -46.892519
1.00000   -5.558222   -8.879539     -1.168060
-0.003217    -1.153797    -48.245074

COMB DL-G1-3  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    5.608378   57.827978     2.610327
 1.87E-05    2.933108   135.644126
0.57757    5.608378   57.827978     2.610327
 1.87E-05    1.838947   113.128483
0.71838    5.608378   57.827978     2.610327
 1.87E-05    0.744504   91.132380
0.85919    5.608378   57.827978     2.610327
 1.87E-05    0.178252   70.121466
1.00000    5.608378   57.827978     2.610327
 1.87E-05    0.726150   51.504120

COMB DL-G1-3  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -8.713417   -9.836045     -1.305792
-0.002768    -1.463758    -41.598889
0.57757   -8.713417   -9.836045     -1.305792
-0.002768    -0.916762    -40.544528
0.71838   -8.713417   -9.836045     -1.305792
-0.002768    -0.369257    -39.755135
0.85919   -8.713417   -9.836045     -1.305792
-0.002768    -0.346059    -39.533186
1.00000   -8.713417   -9.836045     -1.305792
-0.002768    -1.440916    -40.207337

COMB DL-G1-4  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676   10.080475   52.212241     2.817281
 0.003525    3.161717   130.958495
0.57757   10.080475   52.212241     2.817281
 0.003525    1.982501   112.595791
0.71838   10.080475   52.212241     2.817281
 0.003525    0.803138   100.457100
0.85919   10.080475   52.212241     2.817281
 0.003525    0.197225    98.760598
1.00000   10.080475   52.212241     2.817281
 0.003525    0.764553   105.688960

COMB DL-G1-4  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -8.043869   -71.346711     -1.360759
-0.004663    -1.524875    -84.647333
0.57757   -8.043869   -71.346711     -1.360759
-0.004663    -0.955092    -58.434046
0.71838   -8.043869   -71.346711     -1.360759
-0.004663    -0.384759    -43.264547
0.85919   -8.043869   -71.346711     -1.360759
-0.004663    -0.387435    -33.102691
1.00000   -8.043869   -71.346711     -1.360759
-0.004663    -1.156272    -33.657629
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 3866

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    1.110072    23.240406     0.928327
 9.13E-06    1.047922    43.278734
0.57757    1.110072    23.240406     0.928327
 9.13E-06    0.658759    34.498460
0.71838    1.110072    23.240406     0.928327
 9.13E-06    0.269335    26.109973
0.85919    1.110072    23.240406     0.928327
 9.13E-06    0.062230    18.461444
1.00000    1.110072    23.240406     0.928327
 9.13E-06    0.253614    13.302150

COMB DL-G2-1  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -5.786814   -3.560022     -0.457107
-0.000932    -0.513033    -11.381147
0.57757   -5.786814   -3.560022     -0.457107
-0.000932    -0.321425    -11.247934
0.71838   -5.786814   -3.560022     -0.457107
-0.000932    -0.129865    -11.305867
0.85919   -5.786814   -3.560022     -0.457107
-0.000932    -0.118297    -11.817404
1.00000   -5.786814   -3.560022     -0.457107
-0.000932    -0.507490    -13.240342

COMB DL-G2-2  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    4.850959    62.284146     1.704376
 0.004094    1.914755    160.293775
0.57757    4.850959    62.284146     1.704376
 0.004094    1.202676    136.925734
0.71838    4.850959    62.284146     1.704376
 0.004094    0.490821    122.239913
0.85919    4.850959    62.284146     1.704376
 0.004094    0.112833    120.259012
1.00000    4.850959    62.284146     1.704376
 0.004094    0.401165    120.584616

COMB DL-G2-2  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.43676   -8.183736   -53.467187     -0.699600
-0.004300    -0.784506    -29.225358
0.57757   -8.183736   -53.467187     -0.699600
-0.004300    -0.492309    -10.220722
0.71838   -8.183736   -53.467187     -0.699600
-0.004300    -0.199279    -7.402976
0.85919   -8.183736   -53.467187     -0.699600
-0.004300    -0.241110    -7.983612
1.00000   -8.183736   -53.467187     -0.699600
-0.004300    -0.954220    -8.989072

COMB DL-G2-3  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.43676    7.097206    59.434357     2.481308
```

```
 0.003706     2.785848   145.959756
0.57757      7.097206    59.434357     2.481308
 0.003706     1.747789   124.682195
0.71838      7.097206    59.434357     2.481308
 0.003706     1.709721   111.230497
0.85919      7.097206    59.434357     2.481308
 0.003706     0.176300   109.270803
1.00000      7.097206    59.434357     2.481308
 0.003706     0.663819   109.351364

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676    -9.283277   -51.627100   -1.173363
-0.005304   -1.314929   -49.645257
0.57757    -9.283277   -51.627100   -1.173363
-0.005304   -0.824011   -32.201934
0.71838    -9.283277   -51.627100   -1.173363
-0.005304   -0.332173   -29.367356
0.85919    -9.283277   -51.627100   -1.173363
-0.005304   -0.343921   -29.677183
1.00000    -9.283277   -51.627100   -1.173363
-0.005304   -1.384032   -30.515619
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3867

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676     9.823167    52.929576     2.776992
 0.003622    3.120792   125.683197
0.57757     9.823167    52.929576     2.776992
 0.003622    1.957978   107.406406
0.71838     9.823167    52.929576     2.776992
 0.003622    0.795328    93.967786
0.85919     9.823167    52.929576     2.776992
 0.003622    0.179187    87.998919
1.00000     9.823167    52.929576     2.776992
 0.003622    0.748821    91.123758

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676    -8.978942   -76.016153   -1.336324
-0.003672   -1.498090   -96.338137
0.57757    -8.978942   -76.016153   -1.336324
-0.003672   -0.938652   -67.792952
0.71838    -8.978942   -76.016153   -1.336324
-0.003672   -0.378422   -48.147671
0.85919    -8.978942   -76.016153   -1.336324
-0.003672   -0.376616   -31.155273
1.00000    -8.978942   -76.016153   -1.336324
-0.003672   -1.540577   -26.675077

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676     5.853632     7.852827     1.125946
0.002216    1.267546     5.865751
0.57757     5.853632     7.852827     1.125946
0.002216    0.795668     4.417603
0.71838     5.853632     7.852827     1.125946
0.002216    0.323890     3.717374
0.85919     5.853632     7.852827     1.125946
0.002216    0.082194     3.104329
1.00000     5.853632     7.852827     1.125946
0.002216    0.338677     2.975657

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676    -2.245604   -43.089743   -0.612174
-7.14E-06   -0.686702   -92.190493
0.57757    -2.245604   -43.089743   -0.612174
-7.14E-06   -0.430156   -75.297429
0.71838    -2.245604   -43.089743   -0.612174
-7.14E-06   -0.173448   -58.795655
0.85919    -2.245604   -43.089743   -0.612174
-7.14E-06   -0.148693   -42.346280
1.00000    -2.245604   -43.089743   -0.612174
-7.14E-06   -0.620310   -26.263992

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676    12.208228    27.938417     1.847250
 0.008316    1.293904
0.57757    12.208228    27.938417     1.847250
 0.008316    1.298834    64.906721
0.71838    12.208228    27.938417     1.847250
 0.008316    0.528246    70.175850
0.85919    12.208228    27.938417     1.847250
 0.008316    0.141578    92.791855
1.00000    12.208228    27.938417     1.847250
 0.008316    0.495507   115.904323

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676    -3.471054  -122.139911   -0.862394
-0.005099   -0.965915  -132.977483
0.57757    -3.471054  -122.139911   -0.862394
-0.005099   -0.605109   -84.593925
0.71838    -3.471054  -122.139911   -0.862394
-0.005099   -0.244014   -60.015578
0.85919    -3.471054  -122.139911   -0.862394
-0.005099   -0.273684   -39.823439
1.00000    -3.471054  -122.139911   -0.862394
-0.005099   -1.046308   -20.193333
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3868

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676    10.562042    56.076353     2.412762
 0.006401    2.710973   137.655484
0.57757    10.562042    56.076353     2.412762
 0.006401    1.701929   107.104193
0.71838    10.562042    56.076353     2.412762
 0.006401    0.693599   107.044105
0.85919    10.562042    56.076353     2.412762
 0.006401    0.165956   109.530192
1.00000    10.562042    56.076353     2.412762
 0.006401    0.620518   113.526858

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676    -7.903975  -101.523041   -1.096313
-0.003968   -1.229557   -116.318935
0.57757    -7.903975  -101.523041   -1.096313
-0.003968   -0.770527   -77.032438
0.71838    -7.903975  -101.523041   -1.096313
-0.003968   -0.311522   -55.166711
0.85919    -7.903975  -101.523041   -1.096313
-0.003968   -0.336879   -36.525174
1.00000    -7.903975  -101.523041   -1.096313
-0.003968   -1.346509   -18.411776

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676    10.486925    52.653290     2.768470
 0.005320    3.111584   118.986185
0.57757    10.486925    52.653290     2.768470
 0.005320    1.953043   100.514574
0.71838    10.486925    52.653290     2.768470
 0.005320    0.794841    90.912994
0.85919    10.486925    52.653290     2.768470
 0.005320    0.197051    92.164619
1.00000    10.486925    52.653290     2.768470
 0.005320    0.755838    95.647024

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676    -9.525905   -87.042754   -1.342954
-0.004385   -1.505652  -113.874865
0.57757    -9.525905   -87.042754   -1.342954
-0.004385   -0.943147   -81.300267
0.71838    -9.525905   -87.042754   -1.342954
-0.004385   -0.380569   -63.273073
0.85919    -9.525905   -87.042754   -1.342954
-0.004385   -0.380194   -48.121553
1.00000    -9.525905   -87.042754   -1.342954
-0.004385   -1.539712   -33.934386

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676    14.368378    75.144443     1.647881
 0.007590    1.847316   177.473103
0.57757    14.368378    75.144443     1.647881
 0.007590    1.159110   147.178148
0.71838    14.368378    75.144443     1.647881
 0.007590    0.470959   126.140008
0.85919    14.368378    75.144443     1.647881
 0.007590    0.112837   121.726864
1.00000    14.368378    75.144443     1.647881
 0.007590    0.421225   120.880847

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676   -10.815334  -136.131416   -0.759169
-0.005820   -0.851492  -150.370416
0.57757   -10.815334  -136.131416   -0.759169
-0.005820   -0.533307   -99.873574
0.71838   -10.815334  -136.131416   -0.759169
-0.005820   -0.215037   -70.112745
0.85919   -10.815334  -136.131416   -0.759169
-0.005820   -0.233499   -49.751509
1.00000   -10.815334  -136.131416   -0.759169
-0.005820   -0.923790   -50.056270
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3869

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676    12.208228    62.284146     2.817281
 0.008316    3.161717   160.293775
0.57757    12.208228    62.284146     2.817281
 0.008316    1.982501   136.925704
0.71838    12.208228    62.284146     2.817281
 0.008316    0.803138   122.239913
0.85919    12.208228    62.284146     2.817281
 0.008316    0.197225   120.259012
1.00000    12.208228    62.284146     2.817281
 0.008316    0.764553   120.584616

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676    -9.525905  -122.139911   -1.360759
-0.005304   -1.524875  -132.977483
0.57757    -9.525905  -122.139911   -1.360759
-0.005304   -0.955092   -84.593925
0.71838    -9.525905  -122.139911   -1.360759
-0.005304   -0.384759   -63.273073
0.85919    -9.525905  -122.139911   -1.360759
-0.005304   -0.387435   -48.121553
1.00000    -9.525905  -122.139911   -1.360759
-0.005304   -1.568272   -48.245074

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676    14.368378    75.144443     2.817281
 0.008316    3.161717   177.473103
0.57757    14.368378    75.144443     2.817281
 0.008316    1.982501   147.178148
0.71838    14.368378    75.144443     2.817281
 0.008316    0.803138   126.140008
0.85919    14.368378    75.144443     2.817281
 0.008316    0.197225   121.726864
1.00000    14.368378    75.144443     2.817281
 0.008316    0.764553   120.880847

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676   -10.815334  -136.131416   -1.360759
-0.005820   -1.524875  -150.370416
0.57757   -10.815334  -136.131416   -1.360759
-0.005820   -0.955092   -99.873574
0.71838   -10.815334  -136.131416   -1.360759
-0.005820   -0.387435   -49.751509
1.00000   -10.815334  -136.131416   -1.360759
-0.005820   -1.568272   -50.056270

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.43676    14.368378    75.144443     2.817281
 0.008316    3.161717   177.473103
0.57757    14.368378    75.144443     2.817281
 0.008316    1.982501   147.178148
0.71838    14.368378    75.144443     2.817281
 0.008316    0.803138   126.140008
0.85919    14.368378    75.144443     2.817281
 0.008316    0.197225   121.726864
1.00000    14.368378    75.144443     2.817281
 0.008316    0.764553   120.880847

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.43676   -10.815334  -136.131416   -1.360759
-0.005820   -1.524875  -150.370416
0.57757   -10.815334  -136.131416   -1.360759
-0.005820   -0.955092   -99.873574
0.71838   -10.815334  -136.131416   -1.360759
-0.005820   -0.384759   -70.112745
0.85919   -10.815334  -136.131416   -1.360759
-0.005820   -0.387435   -49.751509
1.00000   -10.815334  -136.131416   -1.360759
-0.005820   -1.568272   -50.056270
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3870

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      371 ================== LENGTH =    2.977482

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     3.560164    2.326918     0.573331
6.51E-06    0.308249    1.360302
0.14085     3.560164    2.326918     0.573331
6.51E-06    0.067785    1.421968
0.28169     3.560164    2.326918     0.573331
6.51E-06    0.103603    1.492955
0.42254     3.560164    2.326918     0.573331
6.51E-06    0.252004    2.695613
0.56339     3.560164    2.326918     0.573331
6.51E-06    0.400389    4.288409

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -0.718034   -4.498241   -0.353830
-0.001156   -0.118361   -27.772327
0.14085    -0.718034   -4.498241   -0.353830
-0.001156   -0.044718   -28.343357
0.28169    -0.718034   -4.498241   -0.353830
-0.001156   -0.172739   -28.997247
0.42254    -0.718034   -4.498241   -0.353830
-0.001156   -0.413173   -29.669878
0.56339    -0.718034   -4.498241   -0.353830
-0.001156   -0.653607   -30.491207

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     4.702455   17.651855     1.047123
 0.000173    0.567648    7.389486
0.14085     4.702455   17.651855     1.047123
 0.000173    0.128488    7.360718
0.28169     4.702455   17.651855     1.047123
 0.000173    0.166147    8.205696
0.42254     4.702455   17.651855     1.047123
 0.000173    0.404597   10.628520
0.56339     4.702455   17.651855     1.047123
 0.000173    0.643014   13.655932

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -5.303127   -8.007689   -0.568511
-0.002181   -0.310882   -50.072865
0.14085    -5.303127   -8.007689   -0.568511
-0.002181   -0.072968   -53.186269
0.28169    -5.303127   -8.007689   -0.568511
-0.002181   -0.311349   -57.192706
0.42254    -5.303127   -8.007689   -0.568511
-0.002181   -0.750371   -62.116815
0.56339    -5.303127   -8.007689   -0.568511
-0.002181   -1.189392   -68.157046

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     4.491524   66.619691     1.426388
 5.86E-06    0.774658   43.947985
0.14085     4.491524   66.619691     1.426388
 5.86E-06    0.176424   32.377897
0.28169     4.491524   66.619691     1.426388
 5.86E-06    0.194899   31.286095
0.42254     4.491524   66.619691     1.426388
 5.86E-06    0.474663   33.350065
0.56339     4.491524   66.619691     1.426388
 5.86E-06    0.754338   36.367773

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -8.885597   -9.876880   -0.666894
-0.002450   -0.364371   -39.556910
0.14085    -8.885597   -9.876880   -0.666894
-0.002450   -0.084497   -41.206516
0.28169    -8.885597   -9.876880   -0.666894
-0.002450   -0.421915   -56.474598
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3871

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.42254    -8.885597   -9.876880   -0.666894
-0.002450   -1.020068   -81.653699
0.56339    -8.885597   -9.876880   -0.666894
-0.002450   -1.618235  -108.525064

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     8.156368   94.629655     1.592674
 0.003710    0.880861  108.282974
0.14085     8.156368   94.629655     1.592674
 0.003710    0.213127   98.197210
0.28169     8.156368   94.629655     1.592674
 0.003710    0.208324   96.843901
0.42254     8.156368   94.629655     1.592674
 0.003710    0.507755  107.211495
0.56339     8.156368   94.629655     1.592674
 0.003710    0.807118  126.016515

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -9.779228  -49.001025   -0.713830
-0.004961   -0.390713   -33.033801
0.14085    -9.779228  -49.001025   -0.713830
-0.004961   -0.104446   -34.442075
0.28169    -9.779228  -49.001025   -0.713830
-0.004961   -0.468340   -47.760958
0.42254    -9.779228  -49.001025   -0.713830
-0.004961   -0.832234   -60.705080
0.56339    -9.779228  -49.001025   -0.713830
-0.004961   -1.799905  -103.699607

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.900247   28.073597     0.556411
 1.01E-05    0.304424   12.923354
0.14085     0.900247   28.073597     0.556411
 1.01E-05    0.071114   11.978777
0.28169     0.900247   28.073597     0.556411
 1.01E-05    0.063278   13.071841
0.42254     0.900247   28.073597     0.556411
 1.01E-05    0.154329   14.528003
0.56339     0.900247   28.073597     0.556411
 1.01E-05    0.245353   16.111628

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -6.744750   -4.203326   -0.217049
-0.000938   -0.118745   -14.996259
0.14085    -6.744750   -4.203326   -0.217049
-0.000938   -0.027654   -20.129339
0.28169    -6.744750   -4.203326   -0.217049
-0.000938   -0.162287   -28.270028
0.42254    -6.744750   -4.203326   -0.217049
-0.000938   -0.395627   -38.623389
0.56339    -6.744750   -4.203326   -0.217049
-0.000938   -0.628965   -49.630559

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     1.864209  121.481881     1.083993
 0.004472    0.612392  121.157236
0.14085     1.864209  121.481881     1.083993
 0.004472    0.158102   87.318811
0.28169     1.864209  121.481881     1.083993
 0.004472    0.109273   64.160069
0.42254     1.864209  121.481881     1.083993
 0.004472    0.266508   55.905080
0.56339     1.864209  121.481881     1.083993
 0.004472    0.423643   58.986780

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.566233  -12.047462   -0.374691
-0.005341   -0.210208   -10.569848
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3872

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.14085   -11.566233  -12.047462   -0.374691
-0.005341   -0.066291   -11.535169
0.28169   -11.566233  -12.047462   -0.374691
-0.005341   -0.315050   -27.645493
0.42254   -11.566233  -12.047462   -0.374691
-0.005341   -0.766707   -54.007954
0.56339   -11.566233  -12.047462   -0.374691
-0.005341   -1.218385   -98.439366

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     3.950141  113.017436     1.437003
 0.004042    0.800531  109.623016
0.14085     3.950141  113.017436     1.437003
 0.004042    0.198169   79.240628
0.28169     3.950141  113.017436     1.437003
 0.004042    0.176751   59.472674
0.42254     3.950141  113.017436     1.437003
 0.004042    0.430760   53.229590
0.56339     3.950141  113.017436     1.437003
 0.004042    0.684643   57.399471

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -12.154068  -14.277148   -0.605390
-0.005739   -0.335688   -31.894939
0.14085   -12.154068  -14.277148   -0.605390
-0.005739   -0.093720   -33.573683
0.28169   -12.154068  -14.277148   -0.605390
-0.005739   -0.421236   -49.498501
0.42254   -12.154068  -14.277148   -0.605390
-0.005739   -1.021219   -74.373268
0.56339   -12.154068  -14.277148   -0.605390
-0.005739   -1.621218  -115.619840

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     8.893062   90.163723     1.602277
 0.003542    0.885489   93.788418
0.14085     8.893062   90.163723     1.602277
 0.003542    0.213715   91.835304
0.28169     8.893062   90.163723     1.602277
 0.003542    0.208761   99.779665
0.42254     8.893062   90.163723     1.602277
 0.003542    0.509470  117.211028
0.56339     8.893062   90.163723     1.602277
 0.003542    0.810068  141.623542

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -11.093133  -61.652457   -0.716831
-0.004147   -0.395473   -28.061509
0.14085   -11.093133  -61.652457   -0.716831
-0.004147   -0.102608   -30.842622
0.28169   -11.093133  -61.652457   -0.716831
-0.004147   -0.469258   -45.462764
0.42254   -11.093133  -61.652457   -0.716831
-0.004147   -1.139459   -67.940617
0.56339   -11.093133  -61.652457   -0.716831
-0.004147   -1.809674  -101.505345

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     7.311741    8.365930     0.624684
 0.001750    0.342617    2.639146
0.14085     7.311741    8.365930     0.624684
 0.001750    0.080530    3.525553
0.28169     7.311741    8.365930     0.624684
 0.001750    0.108670   24.759685
0.42254     7.311741    8.365930     0.624684
 0.001750    0.266185   46.789056
0.56339     7.311741    8.365930     0.624684
 0.001750    0.423681   68.958597
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                   3873

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -2.342772   -53.064612   -0.375552
-2.03E-05   -0.206308   -21.598546
0.14085    -2.342772   -53.064612   -0.375552
-2.03E-05   -0.048769   -15.651365
0.28169    -2.342772   -53.064612   -0.375552
-2.03E-05   -0.181522   -17.685656
0.42254    -2.342772   -53.064612   -0.375552
-2.03E-05   -0.443491   -20.629294
0.56339    -2.342772   -53.064612   -0.375552
-2.03E-05   -0.705461   -23.890318

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    10.231627   90.290803     1.099529
 0.007347    0.625906  111.636265
0.14085    10.231627   90.290803     1.099529
 0.007347    0.165247   94.117865
0.28169    10.231627   90.290803     1.099529
 0.007347    0.152470   94.081064
0.42254    10.231627   90.290803     1.099529
 0.007347    0.373082  110.961179
0.56339    10.231627   90.290803     1.099529
 0.007347    0.593646  141.071782

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000    -6.392209   -76.134410   -0.525939
-0.005061   -0.095076   -14.203317
0.14085    -6.392209   -76.134410   -0.525939
-0.005061   -0.090720   -14.357911
0.28169    -6.392209   -76.134410   -0.525939
-0.005061   -0.318356   -17.208959
0.42254    -6.392209   -76.134410   -0.525939
-0.005061   -0.775911   -26.061778
0.56339    -6.392209   -76.134410   -0.525939
-0.005061   -1.233492   -56.542578

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     9.271859  108.504396     1.466759
```

```
 0.005423    0.819218   104.027302
 0.14085     9.271859   108.504396     1.466759
 0.005423    0.204406    90.372097
 0.28169     9.271859   108.504396     1.466759
 0.005423    0.186388    96.352623
 0.42254     9.271859   108.504396     1.466759
 0.005423    0.455602   115.095577
 0.56339     9.271859   108.504396     1.466759
 0.005423    0.724712   143.382668

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -10.726151  -71.671142   -0.641699
-0.004268   -0.356166  -12.691793
 0.14085  -10.726151  -71.671142   -0.641699
-0.004268   -0.098058  -13.356053
 0.28169  -10.726151  -71.671142   -0.641699
-0.004268   -0.426275  -30.080719
 0.42254  -10.726151  -71.671142   -0.641699
-0.004268   -1.038934  -55.472574
 0.56339  -10.726151  -71.671142   -0.641699
-0.004268   -1.651609  -95.811428

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    9.133683   96.486606    1.613130
 0.004496   0.894965   87.508575
 0.14085    9.133683   96.486606    1.613130
 0.004496   0.218693   76.922502
 0.28169    9.133683   96.486606    1.613130
 0.004496   0.215542   83.083956
 0.42254    9.133683   96.486606    1.613130
 0.004496   0.526453   99.858974
 0.56339    9.133683   96.486606    1.613130
 0.004496   0.837276  124.577274
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  3874

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -12.203884  -62.522004   -0.741167
-0.004303   -0.409689  -31.007016
 0.14085  -12.203884  -62.522004   -0.741167
-0.004303   -0.107942  -32.962374
 0.28169  -12.203884  -62.522004   -0.741167
-0.004303   -0.470658  -47.927449
 0.42254  -12.203884  -62.522004   -0.741167
-0.004303   -1.145125  -70.811624
 0.56339  -12.203884  -62.522004   -0.741167
-0.004303   -1.819607 -106.355679

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.506340    3.195161    1.138793
3.73E-06    0.614637    1.905492
 0.14085    4.506340    3.195161    1.138793
3.73E-06    0.136711    1.949416
 0.28169    4.506340    3.195161    1.138793
3.73E-06    0.198716    2.337019
 0.42254    4.506340    3.195161    1.138793
3.73E-06    0.483129    3.008634
 0.56339    4.506340    3.195161    1.138793
3.73E-06    0.767485    4.339752

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.280491   -4.587048   -0.677947
-0.001288   -0.369667  -29.378543
 0.14085   -1.280491   -4.587048   -0.677947
-0.001288   -0.084973  -29.251302
 0.28169   -1.280491   -4.587048   -0.677947
-0.001288   -0.339560  -29.516201
 0.42254   -1.280491   -4.587048   -0.677947
-0.001288   -0.817343  -30.065112
 0.56339   -1.280491   -4.587048   -0.677947
-0.001288   -1.294949  -30.868997

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    5.717495   16.413527    1.979608
 0.000101   0.156838    7.201301
 0.14085    5.717495   16.413527    1.979608
 0.000101   0.244821    7.188605
 0.28169    5.717495   16.413527    1.979608
 0.000101   0.329552    8.352335
 0.42254    5.717495   16.413527    1.979608
 0.000101   0.802200   10.499394
 0.56339    5.717495   16.413527    1.979608
 0.000101   1.274780   13.105737

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -5.572549   -7.721609   -1.126733
-0.002372   -0.615539  -48.264623
 0.14085   -5.572549   -7.721609   -1.126733
-0.002372   -0.143054  -50.704878
 0.28169   -5.572549   -7.721609   -1.126733
-0.002372   -0.582759  -54.151931
 0.42254   -5.572549   -7.721609   -1.126733
-0.002372   -1.218472  -58.910143
 0.56339   -5.572549   -7.721609   -1.126733
-0.002372   -2.243689  -64.874518

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    5.571534   56.693679    2.506717
 1.04E-05   1.363912   51.472900
 0.14085    5.571534   56.693679    2.506717
 1.04E-05   0.311950   39.014707
 0.28169    5.571534   56.693679    2.506717
 1.04E-05   0.369991   34.599026
 0.42254    5.571534   56.693679    2.506717
 1.04E-05   0.900324   35.544776
 0.56339    5.571534   56.693679    2.506717
 1.04E-05   1.430186   37.845590
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  3875

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -8.604539   -9.989285   -1.264057
-0.002582   -0.690960  -40.224408
 0.14085   -8.604539   -9.989285   -1.264057
-0.002582   -0.160200  -41.462263
 0.28169   -8.604539   -9.989285   -1.264057
-0.002582   -0.735777  -53.070789
 0.42254   -8.604539   -9.989285   -1.264057
-0.002582   -1.787431  -73.868383
 0.56339   -8.604539   -9.989285   -1.264057
-0.002582   -2.838814  -95.942904

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    8.305665   77.672980    2.727043
 0.002929   1.497468  105.671975
 0.14085    8.305665   77.672980    2.727043
 0.002929   0.353730   96.566892
 0.28169    8.305665   77.672980    2.727043
 0.002929   0.385650   94.233236
 0.42254    8.305665   77.672980    2.727043
 0.002929   0.939829  103.102909
 0.56339    8.305665   77.672980    2.727043
 0.002929   1.493490  118.789873

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -9.296285  -44.301563   -1.322270
-0.004653   -0.734330  -33.672325
 0.14085   -9.296285  -44.301563   -1.322270
-0.004653   -0.161595  -34.709471
 0.28169   -9.296285  -44.301563   -1.322270
-0.004653   -0.799588  -44.723724
 0.42254   -9.296285  -44.301563   -1.322270
-0.004653   -1.941882  -62.335072
 0.56339   -9.296285  -44.301563   -1.322270
-0.004653   -3.084011  -92.173576

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.102468   22.750960    0.922254
 6.01E-06   0.506162   13.288079
 0.14085    1.102468   22.750960    0.922254
 6.01E-06   0.118859   11.990240
 0.28169    1.102468   22.750960    0.922254
 6.01E-06   0.130062   12.491196
 0.42254    1.102468   22.750960    0.922254
 6.01E-06   0.317145   13.546815
 0.56339    1.102468   22.750960    0.922254
 6.01E-06   0.504230   14.817686

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -5.746296   -3.642896   -0.446096
-0.001009   -0.244233  -13.245717
 0.14085   -5.746296   -3.642896   -0.446096
-0.001009   -0.057391  -16.286980
 0.28169   -5.746296   -3.642896   -0.446096
-0.001009   -0.265983  -23.492440
 0.42254   -5.746296   -3.642896   -0.446096
-0.001009   -0.653066  -31.727201
 0.56339   -5.746296   -3.642896   -0.446096
-0.001009   -1.039969  -40.605908

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    2.124072  101.353305    1.684254
 0.003706   0.941128  120.589885
 0.14085    2.124072  101.353305    1.684254
 0.003706   0.235130   88.856054
 0.28169    2.124072  101.353305    1.684254
 0.003706   0.199749   65.492371
 0.42254    2.124072  101.353305    1.684254
 0.003706   0.486802   57.037937
 0.56339    2.124072  101.353305    1.684254
 0.003706   0.773034   58.408295
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  3876

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -10.134190  -11.277670   -0.685992
-0.005140   -0.393004   -8.993508
 0.14085  -10.134190  -11.277670   -0.685992
-0.005140   -0.108470  -10.088387
 0.28169  -10.134190  -11.277670   -0.685992
-0.005140   -0.488004  -23.314080
 0.42254  -10.134190  -11.277670   -0.685992
-0.005140   -1.191960  -44.644212
 0.56339  -10.134190  -11.277670   -0.685992
-0.005140   -1.895904  -84.095350

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.607177   94.825578    2.409991
 0.003355   1.332216  109.357149
 0.14085    4.607177   94.825578    2.409991
 0.003355   0.321149   80.960963
 0.28169    4.607177   94.825578    2.409991
 0.003355   0.332870   60.911308
 0.42254    4.607177   94.825578    2.409991
 0.003355   0.810857   54.371390
 0.56339    4.607177   94.825578    2.409991
 0.003355   1.288098   56.788418

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -11.034321  -13.435643   -1.140757
-0.005710   -0.639369  -30.528802
 0.14085  -11.034321  -13.435643   -1.140757
-0.005710   -0.163610  -32.101811
 0.28169  -11.034321  -13.435643   -1.140757
-0.005710   -0.703089  -45.379662
 0.42254  -11.034321  -13.435643   -1.140757
-0.005710   -1.711901  -65.245592
 0.56339  -11.034321  -13.435643   -1.140757
-0.005710   -2.720656 -102.536338

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    8.378064   73.851379    2.722132
 0.002994   1.495874   91.096693
 0.14085    8.378064   73.851379    2.722132
 0.002994   0.353914   89.314951
 0.28169    8.378064   73.851379    2.722132
 0.002994   0.373917   94.594220
 0.42254    8.378064   73.851379    2.722132
 0.002994   0.925650  109.179110
 0.56339    8.378064   73.851379    2.722132
 0.002994   1.471166  129.469903

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -9.999642  -53.933163   -1.302911
-0.003972   -0.722364  -26.692276
 0.14085   -9.999642  -53.933163   -1.302911
-0.003972   -0.177382  -29.241410
 0.28169   -9.999642  -53.933163   -1.302911
-0.003972   -0.795267  -41.548484
 0.42254   -9.999642  -53.933163   -1.302911
-0.003972   -1.935676  -60.147044
 0.56339   -9.999642  -53.933163   -1.302911
-0.003972   -3.076098  -89.015047

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    5.907021    7.668566    1.141964
 0.001877   0.624734    2.978421
 0.14085    5.907021    7.668566    1.141964
 0.001877   0.146012    4.537689
 0.28169    5.907021    7.668566    1.141964
 0.001877   0.173945   20.993402
 0.42254    5.907021    7.668566    1.141964
 0.001877   0.426631   38.658721
 0.56339    5.907021    7.668566    1.141964
 0.001877   0.679152   56.671751
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  3877

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -2.228645  -43.822154   -0.602244
-1.60E-05   -0.330146  -26.302318
 0.14085   -2.228645  -43.822154   -0.602244
-1.60E-05   -0.077549  -17.586615
 0.28169   -2.228645  -43.822154   -0.602244
-1.60E-05   -0.333278  -18.322783
 0.42254   -2.228645  -43.822154   -0.602244
-1.60E-05   -0.812120  -20.782402
 0.56339   -2.228645  -43.822154   -0.602244
-1.60E-05   -1.290975  -23.589619

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    8.408723   84.633367    1.851793
 0.007280   1.039611  115.957615
 0.14085    8.408723   84.633367    1.851793
 0.007280   0.263958   96.316563
 0.28169    8.408723   84.633367    1.851793
 0.007280   0.244779   89.152914
 0.42254    8.408723   84.633367    1.851793
 0.007280   0.600299   98.944914
 0.56339    8.408723   84.633367    1.851793
 0.007280   0.955573  121.770593

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -6.343596  -62.904716   -0.850221
-0.005558   -0.490198  -20.236127
 0.14085   -6.343596  -62.904716   -0.850221
-0.005558   -0.138440  -15.575852
 0.28169   -6.343596  -62.904716   -0.850221
-0.005558   -0.539697  -17.634014
 0.42254   -6.343596  -62.904716   -0.850221
-0.005558   -1.312747  -25.064604
 0.56339   -6.343596  -62.904716   -0.850221
-0.005558   -2.085733  -57.252635

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    7.838826   96.259998    2.411950
 0.005592   1.338946  113.544664
 0.14085    7.838826   96.259998    2.411950
 0.005592   0.328402   94.415538
 0.28169    7.838826   96.259998    2.411950
 0.005592   0.312400   91.696952
 0.42254    7.838826   96.259998    2.411950
 0.005592   0.763571  103.316974
 0.56339    7.838826   96.259998    2.411950
 0.005592   1.214675  124.896618

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -9.911503  -59.194333   -1.078077
-0.004746   -0.608722  -18.450917
 0.14085   -9.911503  -59.194333   -1.078077
-0.004746   -0.159583  -14.830353
 0.28169   -9.911503  -59.194333   -1.078077
-0.004746   -0.710489  -28.102791
 0.42254   -9.911503  -59.194333   -1.078077
-0.004746   -1.710419  -47.214184
 0.56339   -9.911503  -59.194333   -1.078077
-0.004746   -2.719586  -84.644479

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    8.213645   85.850006    2.740816
 0.004647   1.514456   95.659641
 0.14085    8.213645   85.850006    2.740816
 0.004647   0.365257   80.559575
 0.28169    8.213645   85.850006    2.740816
 0.004647   0.381490   79.224364
 0.42254    8.213645   85.850006    2.740816
 0.004647   0.931691   89.919186
 0.56339    8.213645   85.850006    2.740816
 0.004647   1.481705  108.912629
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  3878

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -11.168945  -51.941510   -1.313464
-0.004824   -0.733937  -33.975227
 0.14085  -11.168945  -51.941510   -1.313464
-0.004824   -0.185518  -32.298921
 0.28169  -11.168945  -51.941510   -1.313464
-0.004824   -0.798171  -44.730744
 0.42254  -11.168945  -51.941510   -1.313464
-0.004824   -1.945551  -62.657211
 0.56339  -11.168945  -51.941510   -1.313464
-0.004824   -3.093090  -96.063257

COMB     DB ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   10.231627  121.481881    1.613130
 0.007347   0.894965  121.157236
 0.14085   10.231627  121.481881    1.613130
 0.007347   0.218693   98.197210
 0.28169   10.231627  121.481881    1.613130
 0.007347   0.221542   99.779665
 0.42254   10.231627  121.481881    1.613130
 0.007347   0.526453  117.211028
 0.56339   10.231627  121.481881    1.613130
 0.007347   0.837276  143.382668

COMB     DB ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -12.203884  -76.134410   -0.741167
-0.005739   -0.409689  -50.072865
 0.14085  -12.203884  -76.134410   -0.741167
-0.005739   -0.107942  -53.186269
 0.28169  -12.203884  -76.134410   -0.741167
-0.005739   -0.470658  -57.192706
 0.42254  -12.203884  -76.134410   -0.741167
-0.005739   -1.145125  -81.653699
 0.56339  -12.203884  -76.134410   -0.741167
-0.005739   -1.819607 -115.619840

COMB     DL ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    8.408723  101.353305    2.740816
 0.007280   1.514456  120.589885
 0.14085    8.408723  101.353305    2.740816
 0.007280   0.365257   96.566892
 0.28169    8.408723  101.353305    2.740816
 0.007280   0.385650   94.594220
 0.42254    8.408723  101.353305    2.740816
 0.007280   0.939829  109.179110
 0.56339    8.408723  101.353305    2.740816
 0.007280   1.493490  129.469903

COMB     DL ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -11.168945  -62.904716   -1.322270
-0.005710   -0.734330  -48.264623
 0.14085  -11.168945  -62.904716   -1.322270
-0.005710   -0.185518  -50.704878
 0.28169  -11.168945  -62.904716   -1.322270
-0.005710   -0.799588  -54.151931
 0.42254  -11.168945  -62.904716   -1.322270
-0.005710   -1.945551  -73.868383
 0.56339  -11.168945  -62.904716   -1.322270
-0.005710   -3.093090 -102.536338

COMB     CAR ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   10.231627  121.481881    2.740816
 0.007347   1.514456  121.157236
 0.14085   10.231627  121.481881    2.740816
 0.007347   0.365257   98.197210
 0.28169   10.231627  121.481881    2.740816
 0.007347   0.385650   99.779665
 0.42254   10.231627  121.481881    2.740816
 0.007347   0.939829  117.211028
 0.56339   10.231627  121.481881    2.740816
 0.007347   1.493490  143.382668
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  3879

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -12.203884  -76.134410   -1.322270
-0.005739   -0.734330  -50.072865
 0.14085  -12.203884  -76.134410   -1.322270
-0.005739   -0.185518  -53.186269
 0.28169  -12.203884  -76.134410   -1.322270
-0.005739   -0.799588  -57.192706
 0.42254  -12.203884  -76.134410   -1.322270
-0.005739   -1.945551  -81.653699
 0.56339  -12.203884  -76.134410   -1.322270
-0.005739   -3.093090 -115.619840

COMB     DESIGN ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   10.231627  121.481881    2.740816
 0.007347   1.514456  121.157236
 0.14085   10.231627  121.481881    2.740816
 0.007347   0.365257   98.197210
 0.28169   10.231627  121.481881    2.740816
 0.007347   0.385650   99.779665
 0.42254   10.231627  121.481881    2.740816
 0.007347   0.939829  117.211028
 0.56339   10.231627  121.481881    2.740816
 0.007347   1.493490  143.382668

COMB     DESIGN ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -12.203884  -76.134410   -1.322270
-0.005739   -0.734330  -50.072865
 0.14085  -12.203884  -76.134410   -1.322270
-0.005739   -0.185518  -53.186269
 0.28169  -12.203884  -76.134410   -1.322270
-0.005739   -0.799588  -57.192706
 0.42254  -12.203884  -76.134410   -1.322270
-0.005739   -1.945551  -81.653699
 0.56339  -12.203884  -76.134410   -1.322270
-0.005739   -3.093090 -115.619840

ELEM      372 ================ LENGTH
=    2.977322

COMB DB-G1-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43663    4.129419    5.457205    0.826791
8.35E-06    0.812171    1.760120
 0.57748    4.129419    5.457205    0.826791
8.35E-06    0.465472    5.476309
 0.71832    4.129419    5.457205    0.826791
8.35E-06    0.118792    3.207806
 0.85916    4.129419    5.457205    0.826791
8.35E-06    0.131078    2.564144
 1.00000    4.129419    5.457205    0.826791
8.35E-06    0.329786    6.500632

COMB DB-G1-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43663   -0.224688  -33.232733   -0.473873
-0.001893   -0.465051  -52.495901
 0.57748   -0.224688  -33.232733   -0.473873
-0.001893   -0.266342  -38.901433
 0.71832   -0.224688  -33.232733   -0.473873
-0.001893   -0.067622  -25.778905
 0.85916   -0.224688  -33.232733   -0.473873
-0.001893   -0.227930  -13.789203
 1.00000   -0.224688  -33.232733   -0.473873
-0.001893   -0.574625   -4.109393

COMB DB-G1-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43663    7.221916    8.416919    1.547052
 0.000137   1.522372   12.068163
 0.57748    7.221916    8.416919    1.547052
 0.000137   0.873688    8.583968
 0.71832    7.221916    8.416919    1.547052
 0.000137   0.225019    5.343016
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  3880

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.85916    7.221916    8.416919    1.547052
 0.000137   0.210558    4.157501
 1.00000    7.221916    8.416919    1.547052
 0.000137   0.530187   14.447755

COMB DB-G1-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43663   -0.382927  -62.671697   -0.762189
-0.003252   -0.748249 -110.902950
 0.57748   -0.382927  -62.671697   -0.762189
-0.003252   -0.428636  -86.444636
 0.71832   -0.382927  -62.671697   -0.762189
-0.003252   -0.108982  -63.099360
 0.85916   -0.382927  -62.671697   -0.762189
-0.003252   -0.423972  -42.365419
 1.00000   -0.382927  -62.671697   -0.762189
-0.003252   -1.072594  -25.466299

COMB DB-G1-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43663    7.082105   10.616051    2.124739
3.94E-06    2.091429   28.256787
 0.57748    7.082105   10.616051    2.124739
3.94E-06    1.200489   25.021279
```

0.71832 7.082105 10.616051 2.124739
3.94E-06 0.309599 22.876705
0.85916 7.082105 10.616051 2.124739
3.94E-06 0.249678 22.506298
1.00000 7.082105 10.616051 2.124739
3.94E-06 0.629355 33.337673

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.661331	-68.307251	-0.905226
-0.003290	-0.889001	-98.743628	
0.57748	-0.661331	-68.307251	-0.905226
-0.003290	-0.509409	-71.775685	
0.71832	-0.661331	-68.307251	-0.905226
-0.003290	-0.129642	-46.490348	
0.85916	-0.661331	-68.307251	-0.905226
-0.003290	-0.581521	-29.344080	
1.00000	-0.661331	-68.307251	-0.905226
-0.003290	-1.472460	-16.110339	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.031591	26.525962	2.363070
0.002732	2.325415	52.947110	
0.57748	9.031591	26.525962	2.363070
0.002732	1.334531	43.530219	
0.71832	9.031591	26.525962	2.363070
0.002732	0.343694	39.283653	
0.85916	9.031591	26.525962	2.363070
0.002732	0.267189	55.562759	
1.00000	9.031591	26.525962	2.363070
0.002732	0.673627	89.682775	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-3.246681	-117.553062	-0.969093
-0.003738	-0.951863	-123.972722	
0.57748	-3.246681	-117.553062	-0.969093
-0.003738	-0.545497	-78.178813	
0.71832	-3.246681	-117.553062	-0.969093
-0.003738	-0.138934	-41.127569	
0.85916	-3.246681	-117.553062	-0.969093
-0.003738	-0.648865	-24.719491	
1.00000	-3.246681	-117.553062	-0.969093
-0.003738	-1.638228	-16.445859	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	2.808612	2.199944	0.848636
1.21E-05	0.836834	3.295805	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3881

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57748	2.808612	2.199944	0.848636
1.21E-05	0.481009	2.396293	
0.71832	2.808612	2.199944	0.848636
1.21E-05	0.125215	1.524643	
0.85916	2.808612	2.199944	0.848636
1.21E-05	0.081615	1.832458	
1.00000	2.808612	2.199944	0.848636
1.21E-05	0.206067	10.090767	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.129203	-28.029556	-0.296664
-0.001301	-0.291534	-52.331589	
0.57748	-0.129203	-28.029556	-0.296664
-0.001301	-0.167130	-42.258706	
0.71832	-0.129203	-28.029556	-0.296664
-0.001301	-0.042643	-32.489804	
0.85916	-0.129203	-28.029556	-0.296664
-0.001301	-0.230776	-25.574752	
1.00000	-0.129203	-28.029556	-0.296664
-0.001301	-0.586614	-19.522182	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.085222	12.765517	1.632146
0.002617	1.766868	35.400616	
0.57748	6.085222	12.765517	1.632146
0.002617	0.923491	32.178462	
0.71832	6.085222	12.765517	1.632146
0.002617	0.239178	35.770134	
0.85916	6.085222	12.765517	1.632146
0.002617	0.142817	61.483107	
1.00000	6.085222	12.765517	1.632146
0.002617	0.360858	92.244774	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.447662	-94.281350	-0.519712
-0.002586	-0.510866	-82.316967	
0.57748	-1.447662	-94.281350	-0.519712
-0.002586	-0.292932	-46.752819	
0.71832	-1.447662	-94.281350	-0.519712
-0.002586	-0.074919	-20.867548	
0.85916	-1.447662	-94.281350	-0.519712
-0.002586	-0.447466	-15.250666	
1.00000	-1.447662	-94.281350	-0.519712
-0.002586	-1.129777	-12.182350	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.765397	15.285661	2.148742
0.002365	2.115788	36.748565	
0.57748	8.765397	15.285661	2.148742
0.002365	1.214777	32.299340	
0.71832	8.765397	15.285661	2.148742
0.002365	0.313859	33.989038	
0.85916	8.765397	15.285661	2.148742
0.002365	0.227725	56.402975	
1.00000	8.765397	15.285661	2.148742
0.002365	0.574412	88.162396	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.459250	-111.670777	-0.826529
-0.003797	-0.811942	-115.991832	
0.57748	-1.459250	-111.670777	-0.826529
-0.003797	-0.465351	-73.400111	
0.71832	-1.459250	-111.670777	-0.826529
-0.003797	-0.118665	-40.464594	
0.85916	-1.459250	-111.670777	-0.826529
-0.003797	-0.589212	-27.516293	
1.00000	-1.459250	-111.670777	-0.826529
-0.003797	-1.468352	-18.239056	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3882

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	7.395704	37.206750	2.388851
0.003008	2.351417	64.901117	
0.57748	7.395704	37.206750	2.388851
0.003008	1.349723	50.863754	
0.71832	7.395704	37.206750	2.388851
0.003008	0.348100	41.090776	
0.85916	7.395704	37.206750	2.388851
0.003008	0.267820	47.987008	
1.00000	7.395704	37.206750	2.388851
0.003008	0.675534	75.666789	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-4.871663	-98.950251	-0.972176
-0.003098	-0.955059	-104.688071	
0.57748	-4.871663	-98.950251	-0.972176
-0.003098	-0.547365	-66.828088	
0.71832	-4.871663	-98.950251	-0.972176
-0.003098	-0.139641	-36.430027	
0.85916	-4.871663	-98.950251	-0.972176
-0.003098	-0.654988	-23.217467	
1.00000	-4.871663	-98.950251	-0.972176
-0.003098	-1.655462	-22.681597	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.418823	51.044247	0.918926
0.002408	0.903864	62.632094	
0.57748	0.418823	51.044247	0.918926
0.002408	0.518530	41.275888	
0.71832	0.418823	51.044247	0.918926
0.002408	0.133196	20.076599	
0.85916	0.418823	51.044247	0.918926
0.002408	0.138157	1.933418	
1.00000	0.418823	51.044247	0.918926
0.002408	0.348659	3.208333	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-6.895857	-4.146168	-0.501937
-7.89E-06	-0.493250	-4.706910	
0.57748	-6.895857	-4.146168	-0.501937
-7.89E-06	-0.282773	-3.067844	
0.71832	-6.895857	-4.146168	-0.501937
-7.89E-06	-0.072245	-3.507719	
0.85916	-6.895857	-4.146168	-0.501937
-7.89E-06	-0.252140	-11.715554	
1.00000	-6.895857	-4.146168	-0.501937
-7.89E-06	-0.637470	-25.514302	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.420284	70.013284	1.617279
0.005915	1.590825	108.730676	
0.57748	4.420284	70.013284	1.617279
0.005915	0.912651	80.171820	
0.71832	4.420284	70.013284	1.617279
0.005915	0.234481	58.768737	
0.85916	4.420284	70.013284	1.617279
0.005915	0.195732	64.047953	
1.00000	4.420284	70.013284	1.617279
0.005915	0.494130	92.534907	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.178040	-78.909835	-0.711488
-0.001520	-0.699264	-49.541124	
0.57748	-9.178040	-78.909835	-0.711488
-0.001520	-0.400915	-21.008557	
0.71832	-9.178040	-78.909835	-0.711488
-0.001520	-0.102435	-5.037450	
0.85916	-9.178040	-78.909835	-0.711488
-0.001520	-0.446239	-9.186631	
1.00000	-9.178040	-78.909835	-0.711488
-0.001520	-1.121874	-25.393798	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3883

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.734626	58.584709	2.183984
0.004617	2.149723	89.308124	
0.57748	4.734626	58.584709	2.183984
0.004617	1.233915	66.688078	
0.71832	4.734626	58.584709	2.183984
0.004617	0.318178	49.818168	
0.85916	4.734626	58.584709	2.183984
0.004617	0.240662	52.466835	
1.00000	4.734626	58.584709	2.183984
0.004617	0.607758	79.137891	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-7.967437	-76.087891	-0.875160
-0.001839	-0.860167	-55.521822	
0.57748	-7.967437	-76.087891	-0.875160
-0.001839	-0.493186	-26.844992	
0.71832	-7.967437	-76.087891	-0.875160
-0.001839	-0.126063	-7.564418	
0.85916	-7.967437	-76.087891	-0.875160
-0.001839	-0.599453	-25.041175	
1.00000	-7.967437	-76.087891	-0.875160
-0.001839	-1.513521	-23.397590	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.633805	51.926657	2.407353
0.003835	2.370036	79.336817	
0.57748	6.633805	51.926657	2.407353
0.003835	1.360582	59.141753	
0.71832	6.633805	51.926657	2.407353
0.003835	0.351183	43.753092	
0.85916	6.633805	51.926657	2.407353
0.003835	0.276534	44.841198	
1.00000	6.633805	51.926657	2.407353
0.003835	0.697813	70.023303	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-6.770503	-86.236396	-1.004414
-0.002712	-0.986914	-89.277715	
0.57748	-6.770503	-86.236396	-1.004414
-0.002712	-0.565730	-57.032088	
0.71832	-6.770503	-86.236396	-1.004414
-0.002712	-0.144414	-33.434746	
0.85916	-6.770503	-86.236396	-1.004414
-0.002712	-0.659869	-27.657814	
1.00000	-6.770503	-86.236396	-1.004414
-0.002712	-1.667877	-33.358354	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.000663	7.671349	1.603692
6.27E-06	1.574438	13.092802	
0.57748	5.000663	7.671349	1.603692
6.27E-06	0.901870	10.295751	
0.71832	5.000663	7.671349	1.603692
6.27E-06	0.228655	7.507455	
0.85916	5.000663	7.671349	1.603692
6.27E-06	0.253514	4.751283	
1.00000	5.000663	7.671349	1.603692
6.27E-06	0.638062	8.261260	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.470356	-43.955522	-0.917175
-0.002153	-0.900227	-70.835446	
0.57748	-0.470356	-43.955522	-0.917175
-0.002153	-0.515610	-52.542778	
0.71832	-0.470356	-43.955522	-0.917175
-0.002153	-0.130741	-34.402721	
0.85916	-0.470356	-43.955522	-0.917175
-0.002153	-0.442269	-16.856860	
1.00000	-0.470356	-43.955522	-0.917175
-0.002153	-1.114993	-5.610613	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3884

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.602484	11.639634	2.865024
9.28E-05	2.817228	19.159258	
0.57748	8.602484	11.639634	2.865024
9.28E-05	1.615592	14.298158	
0.71832	8.602484	11.639634	2.865024
9.28E-05	0.412839	9.605358	
0.85916	8.602484	11.639634	2.865024
9.28E-05	0.420796	6.009080	
1.00000	8.602484	11.639634	2.865024
9.28E-05	1.060018	16.295566	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.694243	-82.593647	-1.524405
-0.003631	-1.496781	-145.420916	
0.57748	-0.694243	-82.593647	-1.524405
-0.003631	-0.857588	-110.987354	
0.71832	-0.694243	-82.593647	-1.524405
-0.003631	-0.218139	-77.094079	
0.85916	-0.694243	-82.593647	-1.524405
-0.003631	-0.785380	-44.393452	
1.00000	-0.694243	-82.593647	-1.524405
-0.003631	-1.987222	-22.739702	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.288327	15.687157	3.686298
1.84E-05	3.626263	36.789601	
0.57748	8.288327	15.687157	3.686298
1.84E-05	2.080087	30.873381	
0.71832	8.288327	15.687157	3.686298
1.84E-05	0.533361	26.304375	
0.85916	8.288327	15.687157	3.686298
1.84E-05	0.474321	26.323547	
1.00000	8.288327	15.687157	3.686298
1.84E-05	1.195081	39.732682	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.112867	-87.438927	-1.718500
-0.003476	-1.688040	-130.307190	
0.57748	-1.112867	-87.438927	-1.718500
-0.003476	-0.967873	-94.727237	
0.71832	-1.112867	-87.438927	-1.718500
-0.003476	-0.246629	-60.715690	
0.85916	-1.112867	-87.438927	-1.718500
-0.003476	-1.008996	-33.696849	
1.00000	-1.112867	-87.438927	-1.718500
-0.003476	-2.554925	-16.488005	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.901381	31.455010	4.010840
0.002582	3.942690	62.156337	
0.57748	9.901381	31.455010	4.010840
0.002582	2.260525	49.887908	
0.71832	9.901381	31.455010	4.010840
0.002582	0.578811	42.631649	
0.85916	9.901381	31.455010	4.010840
0.002582	0.497297	55.744114	
1.00000	9.901381	31.455010	4.010840
0.002582	1.250982	85.459064	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-3.773533	-126.504275	-1.799865
-0.003474	-1.767865	-149.489973	
0.57748	-3.773533	-126.504275	-1.799865
-0.003474	-0.913516	-97.688435	
0.71832	-3.773533	-126.504275	-1.799865
-0.003474	-0.260710	-53.530373	
0.85916	-3.773533	-126.504275	-1.799865
-0.003474	-1.103387	-28.473784	
1.00000	-3.773533	-126.504275	-1.799865
-0.003474	-2.783200	-16.727113	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3885

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	3.185512	3.173663	1.399419
6.89E-05	1.379322	5.498593	
0.57748	3.185512	3.173663	1.399419
6.89E-05	0.792371	4.180396	
0.71832	3.185512	3.173663	1.399419
6.89E-05	0.205588	2.862047	
0.85916	3.185512	3.173663	1.399419
6.89E-05	0.167196	2.270309	
1.00000	3.185512	3.173663	1.399419
6.89E-05	0.421688	11.033378	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-0.197694	-36.300781	-0.607067
-0.001384	-0.596681	-68.076418	
0.57748	-0.197694	-36.300781	-0.607067
-0.001384	-0.342124	-53.207801	
0.71832	-0.197694	-36.300781	-0.607067
-0.001384	-0.087780	-38.354787	
0.85916	-0.197694	-36.300781	-0.607067
-0.001384	-0.380011	-23.826993	
1.00000	-0.197694	-36.300781	-0.607067
-0.001384	-0.967221	-16.496678	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	6.365979	14.583460	2.555289
0.002507	2.513174	36.855423	
0.57748	6.365979	14.583460	2.555289
0.002507	1.441363	32.158017	
0.71832	6.365979	14.583460	2.555289
0.002507	0.371088	34.050572	
0.85916	6.365979	14.583460	2.555289
0.002507	0.260571	60.554335	
1.00000	6.365979	14.583460	2.555289
0.002507	0.653206	93.067877	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.613517	-99.165116	-0.940046
-0.002023	-0.924055	-93.247000	
0.57748	-1.613517	-99.165116	-0.940046
-0.002023	-0.530163	-52.971634	
0.71832	-1.613517	-99.165116	-0.940046
-0.002023	-0.139506	-23.492592	
0.85916	-1.613517	-99.165116	-0.940046
-0.002023	-0.703186	-14.397309	
1.00000	-1.613517	-99.165116	-0.940046
-0.002023	-1.771424	-10.029948	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.729489	18.452964	3.585156
0.002269	3.525421	41.491290	
0.57748	9.729489	18.452964	3.585156
0.002269	2.021617	35.107197	
0.71832	9.729489	18.452964	3.585156
0.002269	0.518874	34.569672	
0.85916	9.729489	18.452964	3.585156
0.002269	0.430009	56.652650	
1.00000	9.729489	18.452964	3.585156
0.002269	1.080097	89.990095	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-1.767470	-125.323378	-1.553719
-0.003446	-1.526421	-142.733826	
0.57748	-1.767470	-125.323378	-1.553719
-0.003446	-0.875185	-91.633210	
0.71832	-1.767470	-125.323378	-1.553719
-0.003446	-0.226623	-50.855044	
0.85916	-1.767470	-125.323378	-1.553719
-0.003446	-0.985595	-29.077122	
1.00000	-1.767470	-125.323378	-1.553719
-0.003446	-2.486339	-16.307520	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3886

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	8.384965	43.258700	4.026079
0.003045	3.959509	73.301528	
0.57748	8.384965	43.258700	4.026079
0.003045	2.270895	56.192272	
0.71832	8.384965	43.258700	4.026079
0.003045	0.583294	42.969503	
0.85916	8.384965	43.258700	4.026079
0.003045	0.489675	47.746007	
1.00000	8.384965	43.258700	4.026079
0.003045	1.232909	73.916173	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-5.579188	-108.753293	-1.774640
-0.002831	-1.743517	-128.260592	
0.57748	-5.579188	-108.753293	-1.774640
-0.002831	-0.999574	-83.832760	
0.71832	-5.579188	-108.753293	-1.774640
-0.002831	-0.255631	-46.087026	
0.85916	-5.579188	-108.753293	-1.774640
-0.002831	-1.105434	-24.680379	
1.00000	-5.579188	-108.753293	-1.774640
-0.002831	-2.792136	-22.292866	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.666222	62.814539	1.655119
0.002829	1.627687	73.696517	
0.57748	0.666222	62.814539	1.655119
0.002829	0.933704	47.480585	
0.71832	0.666222	62.814539	1.655119
0.002829	0.239717	22.091260	
0.85916	0.666222	62.814539	1.655119
0.002829	0.224681	2.132984	
1.00000	0.666222	62.814539	1.655119
0.002829	0.568158	3.824175	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-8.058988	-5.001751	-0.818932
-5.99E-06	-0.804613	-6.010060	
0.57748	-8.058988	-5.001751	-0.818932
-5.99E-06	-0.461194	-4.071301	
0.71832	-8.058988	-5.001751	-0.818932
-5.99E-06	-0.117561	-4.994088	
0.85916	-8.058988	-5.001751	-0.818932
-5.99E-06	-0.454523	-11.124918	
1.00000	-8.058988	-5.001751	-0.818932
-5.99E-06	-1.148513	-33.719991	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.360844	80.009625	2.717956
0.006677	2.668198	115.555619	
0.57748	5.360844	80.009625	2.717956
0.006677	1.528577	83.384989	
0.71832	5.360844	80.009625	2.717956
0.006677	0.390512	59.360810	
0.85916	5.360844	80.009625	2.717956
0.006677	0.321056	66.951190	
1.00000	5.360844	80.009625	2.717956
0.006677	0.805930	99.855388	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.371611	-88.285848	-1.161214
-0.001057	-1.140731	-61.308026	
0.57748	-10.371611	-88.285848	-1.161214
-0.001057	-0.653663	-27.074099	
0.71832	-10.371611	-88.285848	-1.161214
-0.001057	-0.171932	-6.925872	
0.85916	-10.371611	-88.285848	-1.161214
-0.001057	-0.755633	-9.322779	
1.00000	-10.371611	-88.285848	-1.161214
-0.001057	-1.890748	-33.364728	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3887

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	5.663268	69.127777	3.584554
0.005367	3.523959	98.560606	
0.57748	5.663268	69.127777	3.584554
0.005367	2.020526	70.926424	
0.71832	5.663268	69.127777	3.584554
0.005367	0.518988	49.961377	
0.85916	5.663268	69.127777	3.584554
0.005367	0.407116	56.659157	
1.00000	5.663268	69.127777	3.584554
0.005367	1.023449	89.809694	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.153240	-88.276306	-1.473970
-0.001459	-1.448623	-69.385933	
0.57748	-9.153240	-88.276306	-1.473970
-0.001459	-0.830358	-34.199794	
0.71832	-9.153240	-88.276306	-1.473970
-0.001459	-0.216176	-10.694766	
0.85916	-9.153240	-88.276306	-1.473970
-0.001459	-0.987675	-10.110921	
1.00000	-9.153240	-88.276306	-1.473970
-0.001459	-2.487510	-31.383120	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	7.976031	61.812747	4.061583
0.004464	3.994308	89.144043	
0.57748	7.976031	61.812747	4.061583
0.004464	2.290836	64.376161	
0.71832	7.976031	61.812747	4.061583
0.004464	0.588447	45.101139	
0.85916	7.976031	61.812747	4.061583
0.004464	0.493851	48.990934	
1.00000	7.976031	61.812747	4.061583
0.004464	1.242800	79.792373	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-7.873642	-104.883696	-1.789160
-0.002569	-1.758011	-115.285467	
0.57748	-7.873642	-104.883696	-1.789160
-0.002569	-1.007640	-73.223974	
0.71832	-7.873642	-104.883696	-1.789160
-0.002569	-0.260371	-40.956949	
0.85916	-7.873642	-104.883696	-1.789160
-0.002569	-1.116370	-28.197169	
1.00000	-7.873642	-104.883696	-1.789160
-0.002569	-2.817072	-37.247431	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.031591	70.013284	2.407353
0.005915	2.370036	108.730676	
0.57748	9.031591	70.013284	2.407353
0.005915	1.360582	80.171820	
0.71832	9.031591	70.013284	2.407353
0.005915	0.351183	58.768737	
0.85916	9.031591	70.013284	2.407353
0.005915	0.276534	64.047953	
1.00000	9.031591	70.013284	2.407353
0.005915	0.697813	92.534907	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-9.178040	-117.553062	-1.004414
-0.003797	-0.986914	-123.972722	
0.57748	-9.178040	-117.553062	-1.004414
-0.003797	-0.565730	-86.444636	
0.71832	-9.178040	-117.553062	-1.004414
-0.003797	-0.144414	-63.099360	
0.85916	-9.178040	-117.553062	-1.004414
-0.003797	-0.659869	-42.365419	
1.00000	-9.178040	-117.553062	-1.004414
-0.003797	-1.667877	-33.358354	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3888
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.901381	80.009625	4.061583
0.006677	3.994308	115.553549	
0.57748	9.901381	80.009625	4.061583
0.006677	2.290836	83.384989	
0.71832	9.901381	80.009625	4.061583
0.006677	0.588447	59.360810	
0.85916	9.901381	80.009625	4.061583
0.006677	0.497297	66.955190	
1.00000	9.901381	80.009625	4.061583
0.006677	1.250982	99.855388	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.371611	-126.504275	-1.799865
-0.003631	-1.767865	-149.489973	
0.57748	-10.371611	-126.504275	-1.799865
-0.003631	-1.013516	-110.987354	
0.71832	-10.371611	-126.504275	-1.799865
-0.003631	-0.260710	-77.094079	
0.85916	-10.371611	-126.504275	-1.799865
-0.003631	-1.116370	-44.393452	
1.00000	-10.371611	-126.504275	-1.799865
-0.003631	-2.817072	-37.247431	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.901381	80.009625	4.061583
0.006677	3.994308	115.553549	
0.57748	9.901381	80.009625	4.061583
0.006677	2.290836	83.384989	
0.71832	9.901381	80.009625	4.061583
0.006677	0.588447	59.360810	
0.85916	9.901381	80.009625	4.061583
0.006677	0.497297	66.955190	
1.00000	9.901381	80.009625	4.061583
0.006677	1.250982	99.855388	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.371611	-126.504275	-1.799865
-0.003797	-1.767865	-149.489973	
0.57748	-10.371611	-126.504275	-1.799865
-0.003797	-1.013516	-110.987354	
0.71832	-10.371611	-126.504275	-1.799865
-0.003797	-0.260710	-77.094079	
0.85916	-10.371611	-126.504275	-1.799865
-0.003797	-1.116370	-44.393452	
1.00000	-10.371611	-126.504275	-1.799865
-0.003797	-2.817072	-37.247431	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	9.901381	80.009625	4.061583
0.006677	3.994308	115.553549	
0.57748	9.901381	80.009625	4.061583
0.006677	2.290836	83.384989	
0.71832	9.901381	80.009625	4.061583
0.006677	0.588447	59.360810	
0.85916	9.901381	80.009625	4.061583
0.006677	0.497297	66.955190	
1.00000	9.901381	80.009625	4.061583
0.006677	1.250982	99.855388	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-10.371611	-126.504275	-1.799865
-0.003797	-1.767865	-149.489973	
0.57748	-10.371611	-126.504275	-1.799865
-0.003797	-1.013516	-110.987354	
0.71832	-10.371611	-126.504275	-1.799865
-0.003797	-0.260710	-77.094079	
0.85916	-10.371611	-126.504275	-1.799865
-0.003797	-1.116370	-44.393452	
1.00000	-10.371611	-126.504275	-1.799865
-0.003797	-2.817072	-37.247431	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3889
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 373 ========== LENGTH = 2.977322

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.197345	5.564783	0.815311
2.17E-06	0.562897	6.498618	
0.14084	5.197345	5.564783	0.815311
2.17E-06	0.221017	19.604879	
0.28168	5.197345	5.564783	0.815311
2.17E-06	0.069104	33.373551	
0.42252	5.197345	5.564783	0.815311
2.17E-06	0.265412	47.341917	
0.56337	5.197345	5.564783	0.815311
2.17E-06	0.461709	61.370757	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.615077	-33.821082	-0.468120
-0.001487	-0.323478	-4.112499	
0.14084	-0.615077	-33.821082	-0.468120
-0.001487	-0.127180	-4.154514	
0.28168	-0.615077	-33.821082	-0.468120
-0.001487	-0.120872	-6.280690	
0.42252	-0.615077	-33.821082	-0.468120
-0.001487	-0.462756	-8.4580114	
0.56337	-0.615077	-33.821082	-0.468120
-0.001487	-0.804640	-10.704226	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.075906	9.901601	1.507092
4.80E-05	1.041933	14.445636	
0.14084	9.075906	9.901601	1.507092
4.80E-05	0.410076	36.917282	
0.28168	9.075906	9.901601	1.507092
4.80E-05	0.111220	60.621103	
0.42252	9.075906	9.901601	1.507092
4.80E-05	0.427777	85.276531	
0.56337	9.075906	9.901601	1.507092
4.80E-05	0.744287	110.315968	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.104156	-60.929426	-0.754798
-0.002690	-0.521752	-25.471467	
0.14084	-1.104156	-60.929426	-0.754798
-0.002690	-0.205223	-17.380654	
0.28168	-1.104156	-60.929426	-0.754798
-0.002690	-0.222028	-14.641512	
0.42252	-1.104156	-60.929426	-0.754798
-0.002690	-0.853972	-14.457917	
0.56337	-1.104156	-60.929426	-0.754798
-0.002690	-1.485939	-17.115231	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.752805	9.849929	2.075335
1.95E-06	1.434926	33.332583	
0.14084	9.752805	9.849929	2.075335
1.95E-06	0.564678	58.223424	
0.28168	9.752805	9.849929	2.075335
1.95E-06	0.132322	85.230708	
0.42252	9.752805	9.849929	2.075335
1.95E-06	0.508991	112.988215	
0.56337	9.752805	9.849929	2.075335
1.95E-06	0.885589	141.079622	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.065321	-68.318296	-0.898094
-0.003207	-0.620803	-11.134424	
0.14084	-1.065321	-68.318296	-0.898094
-0.003207	-0.244116	-10.636948	
0.28168	-1.065321	-68.318296	-0.898094
-0.003207	-0.305593	-10.386373	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3890
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42252	-1.065321	-68.318296	-0.898094
-0.003207	-1.175828	-11.691174	
0.56337	-1.065321	-68.318296	-0.898094
-0.003207	-2.046079	-14.341004	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.497090	52.354198	2.328549
0.001474	1.608905	89.699541	
0.14084	9.497090	52.354198	2.328549
0.001474	0.634556	105.417257	
0.28168	9.497090	52.354198	2.328549
0.001474	0.141377	123.871048	
0.42252	9.497090	52.354198	2.328549
0.001474	0.544238	154.667321	
0.56337	9.497090	52.354198	2.328549
0.001474	0.947009	190.086024	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.397108	-85.970477	-0.960508
-0.004405	-0.664073	-16.474893	
0.14084	-4.397108	-85.970477	-0.960508
-0.004405	-0.261233	-15.930576	
0.28168	-4.397108	-85.970477	-0.960508
-0.004405	-0.343969	-20.795814	
0.42252	-4.397108	-85.970477	-0.960508
-0.004405	-1.320393	-28.500339	
0.56337	-4.397108	-85.970477	-0.960508
-0.004405	-2.296824	-49.135660	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.839706	2.285090	0.818410
6.86E-06	0.566713	10.089299	
0.14084	3.839706	2.285090	0.818410
6.86E-06	0.223533	20.845809	
0.28168	3.839706	2.285090	0.818410
6.86E-06	0.043371	31.945658	
0.42252	3.839706	2.285090	0.818410
6.86E-06	0.167374	43.153745	
0.56337	3.839706	2.285090	0.818410
6.86E-06	0.291284	54.446600	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.380694	-27.439953	-0.295494
-0.001229	-0.204355	-19.523953	
0.14084	-0.380694	-27.439953	-0.295494
-0.001229	-0.080382	-13.364462	
0.28168	-0.380694	-27.439953	-0.295494
-0.001229	-0.119677	-8.661473	
0.42252	-0.380694	-27.439953	-0.295494
-0.001229	-0.462841	-5.861040	
0.56337	-0.380694	-27.439953	-0.295494
-0.001229	-0.806025	-4.704283	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.212591	47.975584	1.594755
0.001233	1.103652	92.272491	
0.14084	5.212591	47.975584	1.594755
0.001233	0.437147	86.923157	
0.28168	5.212591	47.975584	1.594755
0.001233	0.076224	84.394595	
0.42252	5.212591	47.975584	1.594755
0.001233	0.293661	98.508347	
0.56337	5.212591	47.975584	1.594755
0.001233	0.511015	118.836438	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.255831	-49.655560	-0.518336
-0.004171	-0.358401	-12.217891	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3891
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14084	-3.255831	-49.655560	-0.518336
-0.004171	-0.140937	-7.715519	
0.28168	-3.255831	-49.655560	-0.518336
-0.004171	-0.234420	-4.789839	
0.42252	-3.255831	-49.655560	-0.518336
-0.004171	-0.903136	-5.591968	
0.56337	-3.255831	-49.655560	-0.518336
-0.004171	-1.571865	-24.026095	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.843953	47.159516	2.097145
0.001115	1.450200	88.185970	
0.14084	8.843953	47.159516	2.097145
0.001115	0.573356	93.716791	
0.28168	8.843953	47.159516	2.097145
0.001115	0.120926	102.394089	
0.42252	8.843953	47.159516	2.097145
0.001115	0.465470	126.295354	
0.56337	8.843953	47.159516	2.097145
0.001115	0.809915	155.895849	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.411281	-71.904114	-0.821415
-0.004924	-0.567862	-18.272296	
0.14084	-3.411281	-71.904114	-0.821415
-0.004924	-0.223319	-9.384443	
0.28168	-3.411281	-71.904114	-0.821415
-0.004924	-0.080602	-8.280761	
0.42252	-3.411281	-71.904114	-0.821415
-0.004924	-1.187991	-11.090063	
0.56337	-3.411281	-71.904114	-0.821415
-0.004924	-2.067387	-29.541239	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	7.911580	58.034053	2.362084
0.001898	1.632076	75.678759	
0.14084	7.911580	58.034053	2.362084
0.001898	0.643256	89.562499	
0.28168	7.911580	58.034053	2.362084
0.001898	0.141626	105.871605	
0.42252	7.911580	58.034053	2.362084
0.001898	0.545687	132.299831	
0.56337	7.911580	58.034053	2.362084
0.001898	0.949712	162.543428	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.357541	-73.205367	-0.963433
-0.003730	-0.666223	-22.705388	
0.14084	-5.357541	-73.205367	-0.963433
-0.003730	-0.262171	-25.857310	
0.28168	-5.357541	-73.205367	-0.963433
-0.003730	-0.348934	-35.536331	
0.42252	-5.357541	-73.205367	-0.963433
-0.003730	-1.339406	-48.213217	
0.56337	-5.357541	-73.205367	-0.963433
-0.003730	-2.329899	-71.374854	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.485348	50.918509	0.954071
0.002243	0.657744	3.208563	
0.14084	0.485348	50.918509	0.954071
0.002243	0.257723	4.563207	
0.28168	0.485348	50.918509	0.954071
0.002243	0.072488	6.137024	
0.42252	0.485348	50.918509	0.954071
0.002243	0.080219	7.773587	
0.56337	0.485348	50.918509	0.954071
0.002243	0.487899	9.447852	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3892
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.704545	-4.074839	-0.495267
-2.41E-05	-0.342822	-25.519885	
0.14084	-5.704545	-4.074839	-0.495267
-2.41E-05	-0.135118	-45.841423	
0.28168	-5.704545	-4.074839	-0.495267
-2.41E-05	-0.142438	-66.755379	
0.42252	-5.704545	-4.074839	-0.495267
-2.41E-05	-0.542470	-87.779620	
0.56337	-5.704545	-4.074839	-0.495267
-2.41E-05	-0.942541	-109.046956	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.568702	113.409700	1.650834
0.003952	1.138770	92.570490	
0.14084	1.568702	113.409700	1.650834
0.003952	0.449983	71.628199	
0.28168	1.568702	113.409700	1.650834
0.003952	0.103090	54.329848	
0.42252	1.568702	113.409700	1.650834
0.003952	0.398330	57.055551	
0.56337	1.568702	113.409700	1.650834
0.003952	0.693438	67.305675	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.936833	-25.328004	-0.703758
-0.003148	-0.486991	-25.442206	
0.14084	-9.936833	-25.328004	-0.703758
-0.003148	-0.191836	-46.704089	
0.28168	-9.936833	-25.328004	-0.703758
-0.003148	-0.245827	-69.153892	
0.42252	-9.936833	-25.328004	-0.703758
-0.003148	-0.938075	-94.169348	
0.56337	-9.936833	-25.328004	-0.703758
-0.003148	-1.630322	-140.871905	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.884353	87.879298	2.193493
0.003211	1.514786	79.161817	
0.14084	3.884353	87.879298	2.193493
0.003211	0.597354	73.999335	
0.28168	3.884353	87.879298	2.193493
0.003211	0.127225	71.088824	
0.42252	3.884353	87.879298	2.193493
0.003211	0.491084	82.063622	
0.56337	3.884353	87.879298	2.193493
0.003211	0.854799	98.156822	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.150898	-39.101450	-0.867372
-0.003247	-0.600063	-23.432129	
0.14084	-8.150898	-39.101450	-0.867372
-0.003247	-0.236233	-42.651218	
0.28168	-8.150898	-39.101450	-0.867372
-0.003247	-0.324918	-63.082642	
0.42252	-8.150898	-39.101450	-0.867372
-0.003247	-1.244720	-85.449929	
0.56337	-8.150898	-39.101450	-0.867372
-0.003247	-2.164519	-121.390473	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.680471	76.175758	2.393857
0.002670	1.653946	70.041840	
0.14084	6.680471	76.175758	2.393857
0.002670	0.652085	74.446505	
0.28168	6.680471	76.175758	2.393857
0.002670	0.146164	81.264820	
0.42252	6.680471	76.175758	2.393857
0.002670	0.563784	99.754773	
0.56337	6.680471	76.175758	2.393857
0.002670	0.981768	122.675867	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3893
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.147449	-55.607495	-0.995598
-0.003668	-0.688670	-33.387449	
0.14084	-7.147449	-55.607495	-0.995598
-0.003668	-0.271088	-43.585467	
0.28168	-7.147449	-55.607495	-0.995598
-0.003668	-0.353794	-57.546854	
0.42252	-7.147449	-55.607495	-0.995598
-0.003668	-1.357604	-76.061875	
0.56337	-7.147449	-55.607495	-0.995598
-0.003668	-2.361422	-106.777030	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.725146	7.797093	1.579901
1.03E-06	1.090523	8.258845	
0.14084	6.725146	7.797093	1.579901
1.03E-06	0.427736	24.755314	
0.28168	6.725146	7.797093	1.579901
1.03E-06	0.133746	42.630946	
0.42252	6.725146	7.797093	1.579901
1.03E-06	0.514477	60.734227	
0.56337	6.725146	7.797093	1.579901
1.03E-06	0.894966	78.987751	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.169545	-44.849598	-0.907350
-0.001737	-0.626839	-5.612379	
0.14084	-1.169545	-44.849598	-0.907350
-0.001737	-0.246408	-5.794634	
0.28168	-1.169545	-44.849598	-0.907350
-0.001737	-0.233484	-8.223448	
0.42252	-1.169545	-44.849598	-0.907350
-0.001737	-0.896367	-10.798010	
0.56337	-1.169545	-44.849598	-0.907350
-0.001737	-1.558998	-13.552914	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.620043	12.833644	2.782556
2.03E-05	1.923237	16.295118	
0.14084	11.620043	12.833644	2.782556
2.03E-05	0.756013	43.614913	
0.28168	11.620043	12.833644	2.782556
2.03E-05	0.222595	73.945786	
0.42252	11.620043	12.833644	2.782556
2.03E-05	1.050553	105.822256	
0.56337	11.620043	12.833644	2.782556
2.03E-05	1.490869	138.676034	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.987473	-81.796864	-1.511878
-0.003036	-1.044914	-22.741251	
0.14084	-1.987473	-81.796864	-1.511878
-0.003036	-0.410943	-17.585864	
0.28168	-1.987473	-81.796864	-1.511878
-0.003036	-0.408101	-17.767459	
0.42252	-1.987473	-81.796864	-1.511878
-0.003036	-1.575823	-19.039072	
0.56337	-1.987473	-81.796864	-1.511878
-0.003036	-2.742879	-21.576636	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.243301	14.896181	3.577218
1.04E-05	2.471954	39.727029	
0.14084	12.243301	14.896181	3.577218
1.04E-05	0.971778	69.562274	
0.28168	12.243301	14.896181	3.577218
1.04E-05	0.251853	102.872928	
0.42252	12.243301	14.896181	3.577218
1.04E-05	0.968998	137.256022	
0.56337	12.243301	14.896181	3.577218
1.04E-05	1.685083	172.477194	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3894
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.138371	-87.760563	-1.708706
-0.003497	-1.181307	-16.489465	
0.14084	-2.138371	-87.760563	-1.708706
-0.003497	-0.464967	-12.725191	
0.28168	-2.138371	-87.760563	-1.708706
-0.003497	-0.525334	-13.893303	
0.42252	-2.138371	-87.760563	-1.708706
-0.003497	-2.025691	-75.955603	
0.56337	-2.138371	-87.760563	-1.708706
-0.003497	-3.526151	-19.321873	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.439556	56.150650	3.935154
0.001128	2.720326	85.536432	
0.14084	11.439556	56.150650	3.935154
0.001128	1.072474	105.327888	
0.28168	11.439556	56.150650	3.935154
0.001128	0.264410	128.599046	
0.42252	11.439556	56.150650	3.935154
0.001128	1.012779	162.630689	
0.56337	11.439556	56.150650	3.935154
0.001128	1.761732	200.384738	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.300117	-97.696134	-1.787091
-0.004412	-1.235655	-16.749582	
0.14084	-5.300117	-97.696134	-1.787091
-0.004412	-0.487641	-18.180639	
0.28168	-5.300117	-97.696134	-1.787091
-0.004412	-0.578527	-24.733085	
0.42252	-5.300117	-97.696134	-1.787091
-0.004412	-2.228112	-33.398122	
0.56337	-5.300117	-97.696134	-1.787091
-0.004412	-3.878570	-53.687054	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.724499	3.264859	1.333614
4.09E-06	0.923355	11.031675	
0.14084	4.724499	3.264859	1.333614
4.09E-06	0.363722	23.359640	
0.28168	4.724499	3.264859	1.333614
4.09E-06	0.089392	36.303775	
0.42252	4.724499	3.264859	1.333614
4.09E-06	0.343054	50.058076	
0.56337	4.724499	3.264859	1.333614
4.09E-06	0.597013	64.460649	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.707918	-35.958124	-0.605645
-0.001338	-0.418981	-16.496606	
0.14084	-0.707918	-35.958124	-0.605645
-0.001338	-0.165077	-12.821564	
0.28168	-0.707918	-35.958124	-0.605645
-0.001338	-0.193674	-10.103117	
0.42252	-0.707918	-35.958124	-0.605645
-0.001338	-0.753471	-8.116371	
0.56337	-0.707918	-35.958124	-0.605645
-0.001338	-1.312905	-6.888907	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.009981	52.092617	2.468314
0.000734	1.709715	93.190057	
0.14084	6.009981	52.092617	2.468314
0.000734	0.678376	88.994553	
0.28168	6.009981	52.092617	2.468314
0.000734	0.140397	86.376468	
0.42252	6.009981	52.092617	2.468314
0.000734	0.531790	99.476612	
0.56337	6.009981	52.092617	2.468314
0.000734	0.924937	117.848444	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3895

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.827618	-52.787480	-0.938426
-0.004135	-0.649533	-10.060529	
0.14084	-3.827618	-52.787480	-0.938426
-0.004135	-0.258071	-6.886157	
0.28168	-3.827618	-52.787480	-0.938426
-0.004135	-0.359685	-5.709523	
0.42252	-3.827618	-52.787480	-0.938426
-0.004135	-1.393590	-7.137401	
0.56337	-3.827618	-52.787480	-0.938426
-0.004135	-2.428959	-25.324057	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.789400	52.489263	3.472724
0.000664	2.403441	90.098950	
0.14084	10.789400	52.489263	3.472724
0.000664	0.950210	98.603877	
0.28168	10.789400	52.489263	3.472724
0.000664	0.229606	110.362433	
0.42252	10.789400	52.489263	3.472724
0.000664	1.509155	136.998203	
0.56337	10.789400	52.489263	3.472724
0.000664	1.524020	168.549979	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.339750	-84.074215	-1.545812
-0.005022	-1.069165	-16.336505	
0.14084	-4.339750	-84.074215	-1.545812
-0.005022	-0.422821	-11.004117	
0.28168	-4.339750	-84.074215	-1.545812
-0.005022	-0.507383	-10.524676	
0.42252	-4.339750	-84.074215	-1.545812
-0.005022	-1.963035	-13.975673	
0.56337	-4.339750	-84.074215	-1.545812
-0.005022	-3.419709	-32.668935	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.831535	63.698722	3.965861
0.001731	2.741629	73.980132	
0.14084	9.831535	63.698722	3.965861
0.001731	1.080388	91.094709	
0.28168	9.831535	63.698722	3.965861
0.001731	0.260203	111.760945	
0.42252	9.831535	63.698722	3.965861
0.001731	0.998349	141.610852	
0.56337	9.831535	63.698722	3.965861
0.001731	1.737161	174.701213	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.331453	-85.073935	-1.762415
-0.003719	-1.218778	-22.313018	
0.14084	-6.331453	-85.073935	-1.762415
-0.003719	-0.480826	-29.985903	
0.28168	-6.331453	-85.073935	-1.762415
-0.003719	-0.582927	-41.717206	
0.42252	-6.331453	-85.073935	-1.762415
-0.003719	-2.245583	-56.351084	
0.56337	-6.331453	-85.073935	-1.762415
-0.003719	-3.908983	-80.412319	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.688490	62.436162	1.718652
0.002621	1.186082	3.824710	
0.14084	0.688490	62.436162	1.718652
0.002621	0.465481	5.601709	
0.28168	0.688490	62.436162	1.718652
0.002621	0.118041	7.470051	
0.42252	0.688490	62.436162	1.718652
0.002621	0.457686	9.388021	
0.56337	0.688490	62.436162	1.718652
0.002621	0.797194	11.356409	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3896

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-6.638541	-4.947851	-0.809419
-1.98E-05	-0.559665	-33.727134	
0.14084	-6.638541	-4.947851	-0.809419
-1.98E-05	-0.270213	-59.344415	
0.28168	-6.638541	-4.947851	-0.809419
-1.98E-05	-0.255471	-85.130678	
0.42252	-6.638541	-4.947851	-0.809419
-1.98E-05	-0.976067	-110.956210	
0.56337	-6.638541	-4.947851	-0.809419
-1.98E-05	-1.696682	-137.038935	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.802219	133.745948	2.776014
0.003859	1.920484	100.032841	
0.14084	1.802219	133.745948	2.776014
0.003859	0.761629	76.010997	
0.28168	1.802219	133.745948	2.776014
0.003859	0.170793	52.961885	
0.42252	1.802219	133.745948	2.776014
0.003859	0.648867	51.414641	
0.56337	1.802219	133.745948	2.776014
0.003859	1.130349	56.647467	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.417884	-23.210499	-1.148011
-0.003441	-0.794114	-33.416661	
0.14084	-11.417884	-23.210499	-1.148011
-0.003441	-0.315338	-58.743442	
0.28168	-11.417884	-23.210499	-1.148011
-0.003441	-0.409228	-85.376465	
0.42252	-11.417884	-23.210499	-1.148011
-0.003441	-1.571836	-114.861397	
0.56337	-11.417884	-23.210499	-1.148011
-0.003441	-2.735821	-168.810978	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.557533	107.502010	3.588221
0.003232	2.481306	89.936300	
0.14084	4.557533	107.502010	3.588221
0.003232	0.980469	82.482836	
0.28168	4.557533	107.502010	3.588221
0.003232	0.216858	75.989681	
0.42252	4.557533	107.502010	3.588221
0.003232	0.828032	85.026578	
0.56337	4.557533	107.502010	3.588221
0.003232	1.441811	98.954830	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.804425	-41.282211	-1.463506
-0.003539	-1.012644	-31.422274	
0.14084	-9.804425	-41.282211	-1.463506
-0.003539	-0.400954	-54.236916	
0.28168	-9.804425	-41.282211	-1.463506
-0.003539	-0.527786	-78.215717	
0.42252	-9.804425	-41.282211	-1.463506
-0.003539	-2.031202	-104.286996	
0.56337	-9.804425	-41.282211	-1.463506
-0.003539	-3.536199	-147.163421	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.230824	93.699752	4.023370
0.002691	2.782557	79.896169	
0.14084	8.230824	93.699752	4.023370
0.002691	1.098308	83.745948	
0.28168	8.230824	93.699752	4.023370
0.002691	0.262578	89.813339	
0.42252	8.230824	93.699752	4.023370
0.002691	1.005583	109.670828	
0.56337	8.230824	93.699752	4.023370
0.002691	1.750685	134.038408	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3897

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.868129	-66.014088	-1.776477
-0.004058	-1.228846	-37.279871	
0.14084	-8.868129	-66.014088	-1.776477
-0.004058	-0.485525	-52.902373	
0.28168	-8.868129	-66.014088	-1.776477
-0.004058	-0.590639	-71.269223	
0.42252	-8.868129	-66.014088	-1.776477
-0.004058	-2.277198	-93.295037	
0.56337	-8.868129	-66.014088	-1.776477
-0.004058	-3.964712	-129.853399	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	9.752805	113.409700	2.393857
0.003952	1.653946	92.570490	
0.14084	9.752805	113.409700	2.393857
0.003952	0.652085	105.417257	
0.28168	9.752805	113.409700	2.393857
0.003952	0.146164	123.871048	
0.42252	9.752805	113.409700	2.393857
0.003952	0.563784	154.667321	
0.56337	9.752805	113.409700	2.393857
0.003952	0.981268	190.086024	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.936833	-85.970477	-0.995598
-0.004924	-0.688670	-33.387449	
0.14084	-9.936833	-85.970477	-0.995598
-0.004924	-0.271088	-46.704089	
0.28168	-9.936833	-85.970477	-0.995598
-0.004924	-0.353794	-69.153892	
0.42252	-9.936833	-85.970477	-0.995598
-0.004924	-1.357604	-94.169348	
0.56337	-9.936833	-85.970477	-0.995598
-0.004924	-2.361422	-140.871905	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.243301	133.745948	4.023370
0.003859	2.782557	100.032841	
0.14084	12.243301	133.745948	4.023370
0.003859	1.098308	105.327888	
0.28168	12.243301	133.745948	4.023370
0.003859	0.264410	128.599046	
0.42252	12.243301	133.745948	4.023370
0.003859	1.012779	162.630689	
0.56337	12.243301	133.745948	4.023370
0.003859	1.761732	200.384738	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.417884	-97.696134	-1.787091
-0.005022	-1.235655	-37.279871	
0.14084	-11.417884	-97.696134	-1.787091
-0.005022	-0.487641	-59.344415	
0.28168	-11.417884	-97.696134	-1.787091
-0.005022	-0.590639	-85.376465	
0.42252	-11.417884	-97.696134	-1.787091
-0.005022	-2.277198	-114.861397	
0.56337	-11.417884	-97.696134	-1.787091
-0.005022	-3.964712	-168.810978	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.243301	133.745948	4.023370
0.003952	2.782557	100.032841	
0.14084	12.243301	133.745948	4.023370
0.003952	1.098308	105.417257	
0.28168	12.243301	133.745948	4.023370
0.003952	0.264410	128.599046	
0.42252	12.243301	133.745948	4.023370
0.003952	1.012779	162.630689	
0.56337	12.243301	133.745948	4.023370
0.003952	1.761732	200.384738	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3898

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.417884	-97.696134	-1.787091
-0.005022	-1.235655	-37.279871	
0.14084	-11.417884	-97.696134	-1.787091
-0.005022	-0.487641	-59.344415	
0.28168	-11.417884	-97.696134	-1.787091
-0.005022	-0.590639	-85.376465	
0.42252	-11.417884	-97.696134	-1.787091
-0.005022	-2.277198	-114.861397	
0.56337	-11.417884	-97.696134	-1.787091
-0.005022	-3.964712	-168.810978	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.243301	133.745948	4.023370
0.003952	2.782557	100.032841	
0.14084	12.243301	133.745948	4.023370
0.003952	1.098308	105.417257	
0.28168	12.243301	133.745948	4.023370
0.003952	0.264410	128.599046	
0.42252	12.243301	133.745948	4.023370
0.003952	1.012779	162.630689	
0.56337	12.243301	133.745948	4.023370
0.003952	1.761732	200.384738	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-11.417884	-97.696134	-1.787091
-0.005022	-1.235655	-37.279871	
0.14084	-11.417884	-97.696134	-1.787091
-0.005022	-0.487641	-59.344415	
0.28168	-11.417884	-97.696134	-1.787091
-0.005022	-0.590639	-85.376465	
0.42252	-11.417884	-97.696134	-1.787091
-0.005022	-2.277198	-114.861397	
0.56337	-11.417884	-97.696134	-1.787091
-0.005022	-3.964712	-168.810978	

ELEM 374 ========== LENGTH = 2.977946

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	5.410586	10.357645	0.721042
7.24E-06	0.749455	15.780182	
0.57741	5.410586	10.357645	0.721042
7.24E-06	0.446993	11.435626	
0.71827	5.410586	10.357645	0.721042
7.24E-06	0.144537	7.099903	
0.85914	5.410586	10.357645	0.721042
7.24E-06	0.179818	2.816949	
1.00000	5.410586	10.357645	0.721042
7.24E-06	0.264710	9.878407	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.720984	-72.792845	-0.414509
-0.001866	-0.430814	-114.236786	
0.57741	-0.720984	-72.792845	-0.414509
-0.001866	-0.256933	-83.858312	
0.71827	-0.720984	-72.792845	-0.414509
-0.001866	-0.083038	-53.614038	
0.85914	-0.720984	-72.792845	-0.414509
-0.001866	-0.157950	-23.816967	
1.00000	-0.720984	-72.792845	-0.414509
-0.001866	-0.460416	-2.291200	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	12.645889	15.892989	1.362200
0.000138	1.417399	24.178064	
0.57741	12.645889	15.892989	1.362200
0.000138	0.845075	17.517054	
0.71827	12.645889	15.892989	1.362200
0.000138	0.274559	10.938609	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3899

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.85914	12.645889	15.892989	1.362200
0.000138	0.145824	5.436335	
1.00000	12.645889	15.892989	1.362200
0.000138	0.425675	18.509818	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.828914	-129.546320	-0.666983
-0.003244	-0.693482	-207.141427	
0.57741	-0.828914	-129.546320	-0.666983
-0.003244	-0.413688	-154.302546	
0.71827	-0.828914	-129.546320	-0.666983
-0.003244	-0.133867	-104.837988	
0.85914	-0.828914	-129.546320	-0.666983
-0.003244	-0.296849	-58.019508	
1.00000	-0.828914	-129.546320	-0.666983
-0.003244	-0.868300	-20.513440	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	14.458649	14.264523	1.876908
3.60E-05	1.953494	22.264582	
0.57741	14.458649	14.264523	1.876908
3.60E-05	1.166157	16.306643	
0.71827	14.458649	14.264523	1.876908
3.60E-05	0.378823	10.340483	
0.85914	14.458649	14.264523	1.876908
3.60E-05	0.173168	4.846883	
1.00000	14.458649	14.264523	1.876908
3.60E-05	0.506010	33.560046	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.787870	-148.285483	-0.793200
-0.003342	-0.824933	-219.696717	
0.57741	-0.787870	-148.285483	-0.793200
-0.003342	-0.492194	-157.878199	
0.71827	-0.787870	-148.285483	-0.793200
-0.003342	-0.159388	-98.045018	
0.85914	-0.787870	-148.285483	-0.793200
-0.003342	-0.408505	-41.335654	
1.00000	-0.787870	-148.285483	-0.793200
-0.003342	-1.195855	-11.246491	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	14.336947	47.294665	2.089589
0.001666	2.174700	75.298446	
0.57741	14.336947	47.294665	2.089589
0.001666	1.298146	55.626439	
0.71827	14.336947	47.294665	2.089589
0.001666	0.421596	37.372808	
0.85914	14.336947	47.294665	2.089589
0.001666	0.185408	39.725828	
1.00000	14.336947	47.294665	2.089589
0.001666	0.541910	84.824582	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-4.291478	-181.156828	-0.849627
-0.003546	-0.883722	-228.930115	
0.57741	-4.291478	-181.156828	-0.849627
-0.003546	-0.527319	-154.443753	
0.71827	-4.291478	-181.156828	-0.849627
-0.003546	-0.170854	-86.286113	
0.85914	-4.291478	-181.156828	-0.849627
-0.003546	-0.454982	-35.102223	
1.00000	-4.291478	-181.156828	-0.849627
-0.003546	-1.331552	-16.321206	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	7.848970	4.254947	0.756570
0.000134	0.788330	6.655973	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3900

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.57741	7.848970	4.254947	0.756570
0.000134	0.470964	4.899355	
0.71827	7.848970	4.254947	0.756570
0.000134	0.153611	3.139838	
0.85914	7.848970	4.254947	0.756570
0.000134	0.056600	1.494435	
1.00000	7.848970	4.254947	0.756570
0.000134	0.165840	9.911953	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.327003	-57.757814	-0.260241
-0.001339	-0.270827	-90.400955	
0.57741	-0.327003	-57.757814	-0.260241
-0.001339	-0.161655	-67.587386	
0.71827	-0.327003	-57.757814	-0.260241
-0.001339	-0.052443	-49.984564	
0.85914	-0.327003	-57.757814	-0.260241
-0.001339	-0.163760	-34.265225	
1.00000	-0.327003	-57.757814	-0.260241
-0.001339	-0.481152	-19.677725	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	11.479117	15.791715	1.452036
0.001167	1.512218	24.940694	
0.57741	11.479117	15.791715	1.452036
0.001167	0.903109	18.323427	
0.71827	11.479117	15.791715	1.452036
0.001167	0.294005	13.357840	
0.85914	11.479117	15.791715	1.452036
0.001167	0.099256	14.284277	
1.00000	11.479117	15.791715	1.452036
0.001167	0.290916	81.080932	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-1.675179	-131.733908	-0.456614
-0.002330	-0.475255	-143.296951	
0.57741	-1.675179	-131.733908	-0.456614
-0.002330	-0.283708	-89.959552	
0.71827	-1.675179	-131.733908	-0.456614
-0.002330	-0.092090	-45.180147	
0.85914	-1.675179	-131.733908	-0.456614
-0.002330	-0.315138	-17.780027	
1.00000	-1.675179	-131.733908	-0.456614
-0.002330	-0.924270	-15.654675	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	15.519998	21.810437	1.903914
0.001047	1.982076	33.963160	
0.57741	15.519998	21.810437	1.903914
0.001047	1.183410	24.821702	
0.71827	15.519998	21.810437	1.903914
0.001047	0.384751	17.177674	
0.85914	15.519998	21.810437	1.903914
0.001047	0.158009	33.514971	
1.00000	15.519998	21.810437	1.903914
0.001047	0.462197	80.310318	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-1.873254	-176.821023	-0.724817
-0.003544	-0.754005	-221.670260	
0.57741	-1.873254	-176.821023	-0.724817
-0.003544	-0.449952	-149.320687	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	13.162424	70.920314	2.117057
0.002161	2.203946	109.118517	
0.57741	13.162424	70.920314	2.117057
0.002161	1.315869	79.457763	
0.71827	13.162424	70.920314	2.117057
0.002161	0.427797	50.932747	
0.85914	13.162424	70.920314	2.117057
0.002161	0.185843	38.804829	
1.00000	13.162424	70.920314	2.117057
0.002161	0.543620	71.056331	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-6.534830	-155.106472	-0.852647
-0.002961	-0.887024	-196.326019	
0.57741	-6.534830	-155.106472	-0.852647
-0.002961	-0.529320	-132.520421	
0.71827	-6.534830	-155.106472	-0.852647
-0.002961	-0.171583	-73.963717	
0.85914	-6.534830	-155.106472	-0.852647
-0.002961	-0.460310	-30.468202	
1.00000	-6.534830	-155.106472	-0.852647
-0.002961	-1.348395	-23.983013	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.557504	107.012327	0.814695
0.002462	0.848626	153.664331	
0.57741	0.557504	107.012327	0.814695
0.002462	0.506872	108.866876	
0.71827	0.557504	107.012327	0.814695
0.002462	0.165119	64.100829	
0.85914	0.557504	107.012327	0.814695
0.002462	0.095899	19.380901	
1.00000	0.557504	107.012327	0.814695
0.002462	0.280654	3.330241	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-9.556968	-7.817910	-0.440414
-8.55E-06	-0.458338	-10.165969	
0.57741	-9.556968	-7.817910	-0.440414
-8.55E-06	-0.273590	-6.957203	
0.71827	-9.556968	-7.817910	-0.440414
-8.55E-06	-0.088837	-3.951292	
0.85914	-9.556968	-7.817910	-0.440414
-8.55E-06	-0.176535	-1.577890	
1.00000	-9.556968	-7.817910	-0.440414
-8.55E-06	-0.518389	-26.675906	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	3.861213	133.213548	1.434405
0.004153	1.493491	201.987150	
0.57741	3.861213	133.213548	1.434405
0.004153	0.891778	147.134606	
0.71827	3.861213	133.213548	1.434405
0.004153	0.290064	94.576850	
0.85914	3.861213	133.213548	1.434405
0.004153	0.135982	74.313325	
1.00000	3.861213	133.213548	1.434405
0.004153	0.398104	82.118801	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-12.622683	-83.051510	-0.624771
-0.001112	-0.650228	-61.498907	
0.57741	-12.622683	-83.051510	-0.624771
-0.001112	-0.388145	-28.842419	
0.71827	-12.622683	-83.051510	-0.624771
-0.001112	-0.126026	-6.146637	
0.85914	-12.622683	-83.051510	-0.624771
-0.001112	-0.311712	-2.489234	
1.00000	-12.622683	-83.051510	-0.624771
-0.001112	-0.913425	-32.449130	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	8.316309	115.389741	1.939699
0.003429	2.020005	169.522292	
0.57741	8.316309	115.389741	1.939699
0.003429	1.206327	121.119371	
0.71827	8.316309	115.389741	1.939699
0.003429	0.392656	74.123630	
0.85914	8.316309	115.389741	1.939699
0.003429	0.172252	49.332210	
1.00000	8.316309	115.389741	1.939699
0.003429	0.489773	69.501006	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-10.686056	-104.966920	-0.768635
-0.001601	-0.799955	-107.595934	
0.57741	-10.686056	-104.966920	-0.768635
-0.001601	-0.477523	-64.944965	
0.71827	-10.686056	-104.966920	-0.768635
-0.001601	-0.155018	-27.798316	
0.85914	-10.686056	-104.966920	-0.768635
-0.001601	-0.421072	-4.173615	
1.00000	-10.686056	-104.966920	-0.768635
-0.001601	-1.234748	-28.881344	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	12.306797	101.575584	2.136282
0.002878	2.224574	149.448609	
0.57741	12.306797	101.575584	2.136282
0.002878	1.328432	106.845399	
0.71827	12.306797	101.575584	2.136282
0.002878	0.432296	65.412938	
0.85914	12.306797	101.575584	2.136282
0.002878	0.191948	42.386291	
1.00000	12.306797	101.575584	2.136282
0.002878	0.561702	63.415258	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-9.197072	-135.560320	-0.881213
-0.002533	-0.916923	-168.352346	
0.57741	-9.197072	-135.560320	-0.881213
-0.002533	-0.547263	-112.930107	
0.71827	-9.197072	-135.560320	-0.881213
-0.002533	-0.177542	-63.712709	
0.85914	-9.197072	-135.560320	-0.881213
-0.002533	-0.463873	-27.410805	
1.00000	-9.197072	-135.560320	-0.881213
-0.002533	-1.360027	-35.768471	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	6.225728	14.596160	1.399654
5.59E-06	1.454275	24.256233	
0.57741	6.225728	14.596160	1.399654
5.59E-06	0.867025	18.140762	
0.71827	6.225728	14.596160	1.399654
5.59E-06	0.279603	12.029534	
0.85914	6.225728	14.596160	1.399654
5.59E-06	0.175601	7.014513	
1.00000	6.225728	14.596160	1.399654
5.59E-06	0.512438	13.362813	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-1.178213	-95.130804	-0.802643
-0.002169	-0.834255	-150.506656	
0.57741	-1.178213	-95.130804	-0.802643
-0.002169	-0.497509	-110.668740	
0.71827	-1.178213	-95.130804	-0.802643
-0.002169	-0.160817	-70.923618	
0.85914	-1.178213	-95.130804	-0.802643
-0.002169	-0.306395	-31.321598	
1.00000	-1.178213	-95.130804	-0.802643
-0.002169	-0.893790	-4.010644	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	14.292753	22.201582	2.521872
0.000102	2.622664	36.774053	
0.57741	14.292753	22.201582	2.521872
0.000102	1.564568	27.480772	
0.71827	14.292753	22.201582	2.521872
0.000102	0.505993	18.236325	
0.85914	14.292753	22.201582	2.521872
0.000102	0.291511	9.559202	
1.00000	14.292753	22.201582	2.521872
0.000102	0.851669	21.999813	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-1.359790	-167.163073	-1.334576
-0.003648	-1.387710	-270.765842	
0.57741	-1.359790	-167.163073	-1.334576
-0.003648	-0.827825	-201.465759	
0.71827	-1.359790	-167.163073	-1.334576
-0.003648	-0.268003	-134.288186	
0.85914	-1.359790	-167.163073	-1.334576
-0.003648	-0.549272	-68.332170	
1.00000	-1.359790	-167.163073	-1.334576
-0.003648	-1.607769	-19.762979	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	16.220061	21.861303	3.256300
5.06E-05	3.386839	38.808237	
0.57741	16.220061	21.861303	3.256300
5.06E-05	2.020710	29.657499	
0.71827	16.220061	21.861303	3.256300
5.06E-05	0.654476	20.537551	
0.85914	16.220061	21.861303	3.256300
5.06E-05	0.328763	12.375688	
1.00000	16.220061	21.861303	3.256300
5.06E-05	0.960795	41.073091	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-1.501361	-186.561825	-1.505451
-0.003537	-1.566056	-282.271736	
0.57741	-1.501361	-186.561825	-1.505451
-0.003537	-0.934885	-204.242420	
0.71827	-1.501361	-186.561825	-1.505451
-0.003537	-0.303177	-127.662065	
0.85914	-1.501361	-186.561825	-1.505451
-0.003537	-0.708712	-53.667069	
1.00000	-1.501361	-186.561825	-1.505451
-0.003537	-2.075068	-13.518109	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	15.653572	57.988478	3.541085
0.001597	3.682823	96.613379	
0.57741	15.653572	57.988478	3.541085
0.001597	2.319291	72.803462	
0.71827	15.653572	57.988478	3.541085
0.001597	0.711695	50.242776	
0.85914	15.653572	57.988478	3.541085
0.001597	0.346346	42.161953	
1.00000	15.653572	57.988478	3.541085
0.001597	1.008773	76.981620	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-4.847544	-203.889958	-1.577937
-0.003397	-4.641115	-277.335677	
0.57741	-4.847544	-203.889958	-1.577937
-0.003397	-0.979636	-192.458211	
0.71827	-4.847544	-203.889958	-1.577937
-0.003397	-0.317759	-112.048534	
0.85914	-4.847544	-203.889958	-1.577937
-0.003397	-0.771550	-45.650793	
1.00000	-4.847544	-203.889958	-1.577937
-0.003397	-2.257375	-17.976065	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	8.526526	6.150928	1.248466
0.000114	1.299996	10.555756	
0.57741	8.526526	6.150928	1.248466
0.000114	0.776168	7.984860	
0.71827	8.526526	6.150928	1.248466
0.000114	0.252100	5.418995	
0.85914	8.526526	6.150928	1.248466
0.000114	0.116066	2.913101	
1.00000	8.526526	6.150928	1.248466
0.000114	0.339213	11.199979	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.548604	-72.168077	-0.532294
-0.001411	-0.554095	-116.477283	
0.57741	-0.548604	-72.168077	-0.532294
-0.001411	-0.330817	-87.152348	
0.71827	-0.548604	-72.168077	-0.532294
-0.001411	-0.107958	-61.252278	
0.85914	-0.548604	-72.168077	-0.532294
-0.001411	-0.269682	-35.806125	
1.00000	-0.548604	-72.168077	-0.532294
-0.001411	-0.793995	-17.574993	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	12.025522	19.156540	2.270654
0.000959	2.362073	31.752660	
0.57741	12.025522	19.156540	2.270654
0.000959	1.409426	24.251382	
0.71827	12.025522	19.156540	2.270654
0.000959	0.457015	18.307608	
0.85914	12.025522	19.156540	2.270654
0.000959	0.183110	32.066538	
1.00000	12.025522	19.156540	2.270654
0.000959	0.529393	73.699645	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-1.883276	-135.882643	-0.824938
-0.001905	-0.858566	-163.034900	
0.57741	-1.883276	-135.882643	-0.824938
-0.001905	-0.512950	-106.695225	
0.71827	-1.883276	-135.882643	-0.824938
-0.001905	-0.167056	-56.464873	
0.85914	-1.883276	-135.882643	-0.824938
-0.001905	-0.493976	-20.343825	
1.00000	-1.883276	-135.882643	-0.824938
-0.001905	-1.446512	-13.716072	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	16.945379	27.945453	3.172638
0.000860	3.299931	46.247077	
0.57741	16.945379	27.945453	3.172638
0.000860	1.968742	35.007571	
0.71827	16.945379	27.945453	3.172638
0.000860	0.637517	25.180203	
0.85914	16.945379	27.945453	3.172638
0.000860	0.299995	33.074126	
1.00000	16.945379	27.945453	3.172638
0.000860	0.871859	75.470177	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-2.294173	-198.703225	-1.361829
-0.003362	-1.416720	-270.274400	
0.57741	-2.294173	-198.703225	-1.361829
-0.003362	-0.845804	-181.579362	
0.71827	-2.294173	-198.703225	-1.361829
-0.003362	-0.274469	-110.142049	
0.85914	-2.294173	-198.703225	-1.361829
-0.003362	-0.690412	-45.619830	
1.00000	-2.294173	-198.703225	-1.361829
-0.003362	-2.191191	-17.478529	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	14.621903	86.734002	3.562389
0.002236	3.706692	136.146464	
0.57741	14.621903	86.734002	3.562389
0.002236	2.212043	100.129494	
0.71827	14.621903	86.734002	3.562389
0.002236	0.717456	65.112498	
0.85914	14.621903	86.734002	3.562389
0.002236	0.340860	41.503335	
1.00000	14.621903	86.734002	3.562389
0.002236	0.994356	66.170390	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-7.224922	-176.029557	-1.556744
-0.002825	-1.619535	-240.322416	
0.57741	-7.224922	-176.029557	-1.556744
-0.002825	-0.966695	-166.986831	
0.71827	-7.224922	-176.029557	-1.556744
-0.002825	-0.313639	-97.118502	
0.85914	-7.224922	-176.029557	-1.556744
-0.002825	-0.774612	-38.615458	
1.00000	-7.224922	-176.029557	-1.556744
-0.002825	-2.269319	-24.908631	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.826992	133.907206	1.462226
0.002905	1.523575	190.848927	
0.57741	0.826992	133.907206	1.462226
0.002905	0.910241	134.734200	
0.71827	0.826992	133.907206	1.462226
0.002905	0.296934	78.703430	
0.85914	0.826992	133.907206	1.462226
0.002905	0.156059	22.764829	
1.00000	0.826992	133.907206	1.462226
0.002905	0.458203	3.984983	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-10.542918	-9.390973	-0.719859
-6.75E-06	-0.748190	-102.728449	
0.57741	-10.542918	-9.390973	-0.719859
-6.75E-06	-0.446899	-8.869006	
0.71827	-10.542918	-9.390973	-0.719859
-6.75E-06	-0.144786	-5.190025	
0.85914	-10.542918	-9.390973	-0.719859
-6.75E-06	-0.316675	-2.432216	
1.00000	-10.542918	-9.390973	-0.719859
-6.75E-06	-0.929999	-35.144992	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	4.310762	162.367983	2.398015
0.004510	2.495504	241.653887	
0.57741	4.310762	162.367983	2.398015
0.004510	1.489730	174.628789	
0.71827	4.310762	162.367983	2.398015
0.004510	0.483875	110.547664	
0.85914	4.310762	162.367983	2.398015
0.004510	0.225222	74.620935	
1.00000	4.310762	162.367983	2.398015
0.004510	0.654593	76.278235	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-13.554190	-79.555642	-1.020883
-0.000754	-1.061372	-64.326682	
0.57741	-13.554190	-79.555642	-1.020883
-0.000754	-0.633340	-32.137123	
0.71827	-13.554190	-79.555642	-1.020883
-0.000754	-0.205630	-8.030632	
0.85914	-13.554190	-79.555642	-1.020883
-0.000754	-0.522301	-3.380045	
1.00000	-13.554190	-79.555642	-1.020883
-0.000754	-1.528392	-40.958219	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	9.203851	143.743076	3.175113
0.003825	3.304770	210.866701	
0.57741	9.203851	143.743076	3.175113
0.003825	1.972746	151.128338	
0.71827	9.203851	143.743076	3.175113
0.003825	0.641115	92.999130	
0.85914	9.203851	143.743076	3.175113
0.003825	0.285232	54.896559	
1.00000	9.203851	143.743076	3.175113
0.003825	0.828196	70.744981	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-11.802855	-113.393976	-1.294975
-0.001292	-1.347384	-125.241733	
0.57741	-11.802855	-113.393976	-1.294975
-0.001292	-0.804301	-78.237221	
0.71827	-11.802855	-113.393976	-1.294975
-0.001292	-0.261505	-36.132732	
0.85914	-11.802855	-113.393976	-1.294975
-0.001292	-0.689955	-8.729131	
1.00000	-11.802855	-113.393976	-1.294975
-0.001292	-2.021788	-37.819028	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	13.858677	127.462497	3.596348
0.003203	3.742978	188.392235	
0.57741	13.858677	127.462497	3.596348
0.003203	2.234220	135.390775	
0.71827	13.858677	127.462497	3.596348
0.003203	0.725346	83.727551	
0.85914	13.858677	127.462497	3.596348
0.003203	0.344673	48.701305	
1.00000	13.858677	127.462497	3.596348
0.003203	1.003387	65.769203	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-10.333587	-157.483989	-1.570224
-0.002410	-1.633564	-209.065162	
0.57741	-10.333587	-157.483989	-1.570224
-0.002410	-0.974964	-143.591297	
0.71827	-10.333587	-157.483989	-1.570224
-0.002410	-0.316569	-83.021910	
0.85914	-10.333587	-157.483989	-1.570224
-0.002410	-0.781256	-35.091841	
1.00000	-10.333587	-157.483989	-1.570224
-0.002410	-2.290182	-41.246318	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	15.519998	133.213548	2.136282
0.004153	2.224574	201.987150	
0.57741	15.519998	133.213548	2.136282
0.004153	1.328432	147.134606	
0.71827	15.519998	133.213548	2.136282
0.004153	0.432296	94.576850	
0.85914	15.519998	133.213548	2.136282
0.004153	0.191948	74.313325	
1.00000	15.519998	133.213548	2.136282
0.004153	0.561702	84.824582	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-12.622683	-181.156828	-0.881213
-0.003546	-0.916923	-228.930115	
0.57741	-12.622683	-181.156828	-0.881213
-0.003546	-0.547263	-157.878199	
0.71827	-12.622683	-181.156828	-0.881213
-0.003546	-0.177542	-104.837988	
0.85914	-12.622683	-181.156828	-0.881213
-0.003546	-0.463873	-58.019508	
1.00000	-12.622683	-181.156828	-0.881213
-0.003546	-1.360027	-35.768471	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	16.945379	162.367983	3.596348
0.004510	3.742978	241.653887	
0.57741	16.945379	162.367983	3.596348
0.004510	2.234220	174.628789	
0.71827	16.945379	162.367983	3.596348
0.004510	0.725346	110.547664	
0.85914	16.945379	162.367983	3.596348
0.004510	0.346346	74.620935	
1.00000	16.945379	162.367983	3.596348
0.004510	1.008773	76.981620	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-13.554190	-203.889958	-1.577937
-0.003648	-1.641115	-282.271736	
0.57741	-13.554190	-203.889958	-1.577937
-0.003648	-0.979636	-204.242420	
0.71827	-13.554190	-203.889958	-1.577937
-0.003648	-0.317759	-134.288186	
0.85914	-13.554190	-203.889958	-1.577937
-0.003648	-0.781256	-68.332170	
1.00000	-13.554190	-203.889958	-1.577937
-0.003648	-2.290182	-41.246318	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	16.945379	162.367983	3.596348
0.004510	3.742978	241.653887	
0.57741	16.945379	162.367983	3.596348
0.004510	2.234220	174.628789	
0.71827	16.945379	162.367983	3.596348
0.004510	0.725346	110.547664	
0.85914	16.945379	162.367983	3.596348
0.004510	0.346346	74.620935	
1.00000	16.945379	162.367983	3.596348
0.004510	1.008773	84.824582	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-13.554190	-203.889958	-1.577937
-0.003648	-1.641115	-282.271736	
0.57741	-13.554190	-203.889958	-1.577937
-0.003648	-0.979636	-204.242420	
0.71827	-13.554190	-203.889958	-1.577937
-0.003648	-0.317759	-134.288186	
0.85914	-13.554190	-203.889958	-1.577937
-0.003648	-0.781256	-68.332170	
1.00000	-13.554190	-203.889958	-1.577937
-0.003648	-2.290182	-41.246318	

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43654 16.945379 162.367983 3.596348
0.004510 3.742978 241.653887
0.57741 16.945379 162.367983 3.596348
0.004510 2.234220 174.628789
0.71827 16.945379 162.367983 3.596348
0.004510 0.725346 110.547664
0.85914 16.945379 162.367983 3.596348
0.004510 0.346346 74.620935
1.00000 16.945379 162.367983 3.596348
0.004510 1.008773 84.824582

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43654 -13.554190 -203.889958 -1.577937
-0.003648 -1.641115 -282.271736
0.57741 -13.554190 -203.889958 -1.577937
-0.003648 -0.979636 -204.242420
0.71827 -13.554190 -203.889958 -1.577937
-0.003648 -0.317759 -134.288186
0.85914 -13.554190 -203.889958 -1.577937
-0.003648 -0.781256 -66.332170
1.00000 -13.554190 -203.889958 -1.577937
-0.003648 -2.290182 -41.246318
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3908

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 375 ========== LENGTH = 2.976830

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.283451 10.269571 0.718629
1.55E-06 0.454376 9.876656
0.14082 4.283451 10.269571 0.718629
1.55E-06 0.153272 38.999055
0.28165 4.283451 10.269571 0.718629
1.55E-06 0.084794 68.911639
0.42247 4.283451 10.269571 0.718629
1.55E-06 0.257181 98.914017
0.56329 4.283451 10.269571 0.718629
1.55E-06 0.429555 129.012285

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.702219 -71.853210 -0.411189
-0.001559 -0.259939 -2.290993
0.14082 -0.702219 -71.853210 -0.411189
-0.001559 -0.087551 -6.184039
0.28165 -0.702219 -71.853210 -0.411189
-0.001559 -0.147983 -10.271563
0.42247 -0.702219 -71.853210 -0.411189
-0.001559 -0.449238 -14.464980
0.56329 -0.702219 -71.853210 -0.411189
-0.001559 -0.750492 -18.750866

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.706113 16.552633 1.329361
3.00E-05 0.841876 18.506974
0.14082 10.706113 16.552633 1.329361
3.00E-05 0.284600 68.041873
0.28165 10.706113 16.552633 1.329361
3.00E-05 0.132486 119.772771
0.42247 10.706113 16.552633 1.329361
3.00E-05 0.414609 172.223954
0.56329 10.706113 16.552633 1.329361
3.00E-05 0.692676 225.130573

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.902909 -126.775555 -0.663305
-0.002775 -0.419570 -20.513683
0.14082 -0.902909 -126.775555 -0.663305
-0.002775 -0.141443 -16.323964
0.28165 -0.902909 -126.775555 -0.663305
-0.002775 -0.272678 -16.634650
0.42247 -0.902909 -126.775555 -0.663305
-0.002775 -0.829954 -21.813956
0.56329 -0.902909 -126.775555 -0.663305
-0.002775 -1.387231 -28.288809

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.905847 14.016489 1.833605
1.40E-06 1.161613 33.556347
0.14082 11.905847 14.016489 1.833605
1.40E-06 0.392952 92.839033
0.28165 11.905847 14.016489 1.833605
1.40E-06 0.162411 153.712797
0.42247 11.905847 14.016489 1.833605
1.40E-06 0.493819 214.879380
0.56329 11.905847 14.016489 1.833605
1.40E-06 0.825139 276.181251

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.830961 -146.529297 -0.790341
-0.003345 -0.500125 -11.246490
0.14082 -0.830961 -146.529297 -0.790341
-0.003345 -0.168710 -11.142055
0.28165 -0.830961 -146.529297 -0.790341
-0.003345 -0.375710 -13.894546
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3909

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42247 -0.830961 -146.529297 -0.790341
-0.003345 -1.144371 -19.354576
0.56329 -0.830961 -146.529297 -0.790341
-0.003345 -1.913032 -25.150439

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.067038 63.693729 2.062013
0.001171 1.306082 84.821712
0.14082 11.067038 63.693729 2.062013
0.001171 0.441670 130.666132
0.28165 11.067038 63.693729 2.062013
0.001171 0.173616 181.620715
0.42247 11.067038 63.693729 2.062013
0.001171 0.528006 239.846096
0.56329 11.067038 63.693729 2.062013
0.001171 0.882324 303.770019

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.198841 -155.349504 -0.845203
-0.003551 -0.534936 -16.320610
0.14082 -6.198841 -155.349504 -0.845203
-0.003551 -0.180529 -23.723496
0.28165 -6.198841 -155.349504 -0.845203
-0.003551 -0.422741 -38.244255
0.42247 -6.198841 -155.349504 -0.845203
-0.003551 -1.287152 -55.292994
0.56329 -6.198841 -155.349504 -0.845203
-0.003551 -2.151563 -73.226590

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.957010 4.189346 0.723428
6.58E-06 0.458933 9.910708
0.14082 6.957010 4.189346 0.723428
6.58E-06 0.155667 32.536193
0.28165 6.957010 4.189346 0.723428
6.58E-06 0.053293 56.005458
0.42247 6.957010 4.189346 0.723428
6.58E-06 0.162499 79.747759
0.56329 6.957010 4.189346 0.723428
6.58E-06 0.271642 103.585834

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.292879 -57.068410 -0.260346
-0.001289 -0.164911 -19.678480
0.14082 -0.292879 -57.068410 -0.260346
-0.001289 -0.055694 -11.069866
0.28165 -0.292879 -57.068410 -0.260346
-0.001289 -0.147601 -5.749527
0.42247 -0.292879 -57.068410 -0.260346
-0.001289 -0.450866 -5.789001
0.56329 -0.292879 -57.068410 -0.260346
-0.001289 -0.754133 -7.506172

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.376606 38.047978 1.412549
0.000765 0.895488 81.078842
0.14082 8.376606 38.047978 1.412549
0.000765 0.303337 97.987963
0.28165 8.376606 38.047978 1.412549
0.000765 0.093604 120.207574
0.42247 8.376606 38.047978 1.412549
0.000765 0.285455 152.195878
0.56329 8.376606 38.047978 1.412549
0.000765 0.477211 191.924713

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.519510 -97.321758 -0.457415
-0.002899 -0.289793 -15.654962
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3910

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14082 -3.519510 -97.321758 -0.457415
-0.002899 -0.097933 -6.604806
0.28165 -3.519510 -97.321758 -0.457415
-0.002899 -0.288814 -6.263035
0.42247 -3.519510 -97.321758 -0.457415
-0.002899 -0.880965 -9.151385
0.56329 -3.519510 -97.321758 -0.457415
-0.002899 -1.473115 -13.212941

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.846702 41.831696 1.854790
0.000691 1.175335 80.307105
0.14082 11.846702 41.831696 1.854790
0.000691 0.397793 118.309090
0.28165 11.846702 41.831696 1.854790
0.000691 0.148454 162.027681
0.42247 11.846702 41.831696 1.854790
0.000691 0.451852 214.734456
0.56329 11.846702 41.831696 1.854790
0.000691 0.755131 274.486635

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.550873 -145.038121 -0.723454
-0.003825 -0.457975 -18.396827
0.14082 -3.550873 -145.038121 -0.723454
-0.003825 -0.154569 -9.604326
0.28165 -3.550873 -145.038121 -0.723454
-0.003825 -0.379749 -13.083724
0.42247 -3.550873 -145.038121 -0.723454
-0.003825 -1.157290 -18.887300
0.56329 -3.550873 -145.038121 -0.723454
-0.003825 -1.934832 -25.682452

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 10.376437 84.531437 2.094918
0.001649 1.327401 71.054122
0.14082 10.376437 84.531437 2.094918
0.001649 0.449196 109.104618
0.28165 10.376437 84.531437 2.094918
0.001649 0.173924 154.018666
0.42247 10.376437 84.531437 2.094918
0.001649 0.529378 204.876419
0.56329 10.376437 84.531437 2.094918
0.001649 0.884772 260.388502

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.478248 -134.126304 -0.847706
-0.003028 -0.536641 -23.982412
0.14082 -8.478248 -134.126304 -0.847706
-0.003028 -0.181179 -39.550322
0.28165 -8.478248 -134.126304 -0.847706
-0.003028 -0.429010 -65.134568
0.42247 -8.478248 -134.126304 -0.847706
-0.003028 -1.307214 -92.725704
0.56329 -8.478248 -134.126304 -0.847706
-0.003028 -2.185419 -121.054751

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.486201 108.029982 0.854703
0.002289 0.541997 3.330032
0.14082 0.486201 108.029982 0.854703
0.002289 0.183701 6.371744
0.28165 0.486201 108.029982 0.854703
0.002289 0.089151 9.582900
0.42247 0.486201 108.029982 0.854703
0.002289 0.271497 12.832081
0.56329 0.486201 108.029982 0.854703
0.002289 0.453838 16.107609
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3911

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -10.786585 -7.852371 -0.434965
-2.57E-05 -0.275525 -26.672841
0.14082 -10.786585 -7.852371 -0.434965
-2.57E-05 -0.093178 -71.727735
0.28165 -10.786585 -7.852371 -0.434965
-2.57E-05 -0.174624 -116.799472
0.42247 -10.786585 -7.852371 -0.434965
-2.57E-05 -0.532922 -161.880068
0.56329 -10.786585 -7.852371 -0.434965
-2.57E-05 -0.891219 -207.129892

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.581375 161.474709 1.474198
0.003445 0.934224 82.118342
0.14082 1.581375 161.474709 1.474198
0.003445 0.316232 69.980874
0.28165 1.581375 161.474709 1.474198
0.003445 0.126821 64.966906
0.42247 1.581375 161.474709 1.474198
0.003445 0.386348 71.913042
0.56329 1.581375 161.474709 1.474198
0.003445 0.645838 88.264962

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -16.328185 -42.231023 -0.619000
-0.001548 -0.392121 -32.445958
0.14082 -16.328185 -42.231023 -0.619000
-0.001548 -0.132592 -75.710243
0.28165 -16.328185 -42.231023 -0.619000
-0.001548 -0.301762 -125.911800
0.42247 -16.328185 -42.231023 -0.619000
-0.001548 -0.919755 -176.463522
0.56329 -16.328185 -42.231023 -0.619000
-0.001548 -1.537748 -229.550775

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.816813 134.965940 1.953071
0.002868 1.238062 69.499241
0.14082 5.816813 134.965940 1.953071
0.002868 0.419320 82.264337
0.28165 5.816813 134.965940 1.953071
0.002868 0.156419 98.992921
0.42247 5.816813 134.965940 1.953071
0.002868 0.476612 123.786202
0.56329 5.816813 134.965940 1.953071
0.002868 0.796729 154.980027

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.538028 -76.409414 -0.763624
-0.002168 -0.483738 -28.878523
0.14082 -13.538028 -76.409414 -0.763624
-0.002168 -0.163542 -68.736263
0.28165 -13.538028 -76.409414 -0.763624
-0.002168 -0.399422 -114.317017
0.42247 -13.538028 -76.409414 -0.763624
-0.002168 -1.218164 -160.242342
0.56329 -13.538028 -76.409414 -0.763624
-0.002168 -2.036906 -206.874794

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 9.556832 117.700027 2.126727
0.002387 0.745895 63.412776
0.14082 9.556832 117.700027 2.126727
0.002387 0.456514 92.641125
0.28165 9.556832 117.700027 2.126727
0.002387 0.179613 126.246227
0.42247 9.556832 117.700027 2.126727
0.002387 0.546925 166.728825
0.56329 9.556832 117.700027 2.126727
0.002387 0.914155 212.621824
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3912

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.544692 -111.409900 -0.876004
-0.002819 -0.554752 -35.766603
0.14082 -11.544692 -111.409900 -0.876004
-0.002819 -0.167434 -62.934936
0.28165 -11.544692 -111.409900 -0.876004
-0.002819 -0.435029 -100.960657
0.42247 -11.544692 -111.409900 -0.876004
-0.002819 -1.326570 -141.251266
0.56329 -11.544692 -111.409900 -0.876004
-0.002819 -2.218111 -182.360022

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.963131 14.429825 1.390825
8.58E-07 0.878936 13.360341
0.14082 4.963131 14.429825 1.390825
8.58E-07 0.394622 50.836616
0.28165 4.963131 14.429825 1.390825
8.58E-07 0.164399 88.979040
0.42247 4.963131 14.429825 1.390825
8.58E-07 0.498838 127.679519
0.56329 4.963131 14.429825 1.390825
8.58E-07 0.833253 167.011823

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.144959 -93.932673 -0.797732
-0.001824 -0.504338 -4.910375
0.14082 -1.144959 -93.932673 -0.797732
-0.001824 -0.169923 -8.358860
0.28165 -1.144959 -93.932673 -0.797732
-0.001824 -0.286324 -13.098252
0.42247 -1.144959 -93.932673 -0.797732
-0.001824 -0.869600 -18.386283
0.56329 -1.144959 -93.932673 -0.797732
-0.001824 -1.452755 -24.424522

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 11.884204 22.346828 2.450506
1.52E-05 1.550296 21.996186
0.14082 11.884204 22.346828 2.450506
1.52E-05 0.522274 84.785661
0.28165 11.884204 22.346828 2.450506
1.52E-05 0.273405 150.374216
0.42247 11.884204 22.346828 2.450506
1.52E-05 0.830961 217.804482
0.56329 11.884204 22.346828 2.450506
1.52E-05 1.388463 286.737738

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.253178 -164.765028 -1.329768
-0.003137 -0.841302 -19.763177
0.14082 -1.253178 -164.765028 -1.329768
-0.003137 -0.283926 -20.065837
0.28165 -1.253178 -164.765028 -1.329768
-0.003137 -0.502244 -22.541620
0.42247 -1.253178 -164.765028 -1.329768
-0.003137 -1.530186 -27.652458
0.56329 -1.253178 -164.765028 -1.329768
-0.003137 -2.557645 -36.802210

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.937710 21.480892 3.155572
1.04E-05 1.996381 41.068763
0.14082 12.937710 21.480892 3.155572
1.04E-05 0.673072 113.005841
0.28165 12.937710 21.480892 3.155572
1.04E-05 0.309287 187.370662
0.42247 12.937710 21.480892 3.155572
1.04E-05 0.940173 263.233855
0.56329 12.937710 21.480892 3.155572
1.04E-05 1.570422 340.359663
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3913

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.402142 -184.238207 -1.504201
-0.003620 -0.952636 -13.518624
0.14082 -1.402142 -184.238207 -1.504201
-0.003620 -0.321687 -15.265790
0.28165 -1.402142 -184.238207 -1.504201
-0.003620 -0.646802 -19.281397
0.42247 -1.402142 -184.238207 -1.504201
-0.003620 -1.969861 -25.412422
0.56329 -1.402142 -184.238207 -1.504201
-0.003620 -3.293004 -34.095355

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.121359 69.074410 3.476636
0.001026 2.200688 76.978127
0.14082 12.121359 69.074410 3.476636
0.001026 0.742787 137.527573
0.28165 12.121359 69.074410 3.476636
0.001026 0.323131 201.347115
0.42247 12.121359 69.074410 3.476636
0.001026 0.982686 274.957549
0.56329 12.121359 69.074410 3.476636
0.001026 1.641766 352.879292

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.399739 -187.284250 -1.572880
-0.003531 -0.997589 -17.975802
0.14082 -6.399739 -187.284250 -1.572880
-0.003531 -0.338636 -29.095103
0.28165 -6.399739 -187.284250 -1.572880
-0.003531 -0.712223 -46.358147
0.42247 -6.399739 -187.284250 -1.572880
-0.003531 -2.169801 -65.738874
0.56329 -6.399739 -187.284250 -1.572880
-0.003531 -3.627477 -89.623176

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 7.228354 6.021741 1.176562
3.96E-06 0.745895 11.198572
0.14082 7.228354 6.021741 1.176562
3.96E-06 0.251833 37.773994
0.28165 7.228354 6.021741 1.176562
3.96E-06 0.109667 66.023752
0.42247 7.228354 6.021741 1.176562
3.96E-06 0.332985 95.227439
0.56329 7.228354 6.021741 1.176562
3.96E-06 0.556627 125.119533

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.434572 -71.441047 -0.533501
-0.001357 -0.338119 -17.575297
0.14082 -0.434572 -71.441047 -0.533501
-0.001357 -0.114633 -12.466314
0.28165 -0.434572 -71.441047 -0.533501
-0.001357 -0.239681 -8.752559
0.42247 -0.434572 -71.441047 -0.533501
-0.001357 -0.733251 -7.355379
0.56329 -0.434572 -71.441047 -0.533501
-0.001357 -1.226615 -9.857234

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 8.677851 35.803662 2.178630
0.000548 1.380318 73.697605
0.14082 8.677851 35.803662 2.178630
0.000548 0.466801 98.412796
0.28165 8.677851 35.803662 2.178630
0.000548 0.169726 125.520584
0.42247 8.677851 35.803662 2.178630
0.000548 0.516622 166.382985
0.56329 8.677851 35.803662 2.178630
0.000548 0.862834 212.770863
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3914

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.276846 -112.347768 -0.826845
-0.002635 -0.526968 -13.716245
0.14082 -3.276846 -112.347768 -0.826845
-0.002635 -0.181277 -7.561189
0.28165 -3.276846 -112.347768 -0.826845
-0.002635 -0.444518 -8.047939
0.42247 -3.276846 -112.347768 -0.826845
-0.002635 -1.357859 -10.363693
0.56329 -3.276846 -112.347768 -0.826845
-0.002635 -2.271454 -18.044624

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 12.890450 42.868437 3.062361
0.000496 1.939008 75.466708
0.14082 12.890450 42.868437 3.062361
0.000496 0.654670 126.423611
0.28165 12.890450 42.868437 3.062361
0.000496 0.279664 181.385011
0.42247 12.890450 42.868437 3.062361
0.000496 0.850377 249.284586
0.56329 12.890450 42.868437 3.062361
0.000496 1.420564 322.555923

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.516258 -176.521882 -1.360799
-0.003726 -0.864328 -17.478930
0.14082 -3.516258 -176.521882 -1.360799
-0.003726 -0.294602 -12.004121
0.28165 -3.516258 -176.521882 -1.360799
-0.003726 -0.625825 -16.463438
0.42247 -3.516258 -176.521882 -1.360799
-0.003726 -1.910097 -22.830820
0.56329 -3.516258 -176.521882 -1.360799
-0.003726 -3.194266 -34.178822

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.510721	96.363509	3.509950
0.001647	2.222811	66.167445	
0.14082	11.510721	96.363509	3.509950
0.001647	0.750846	118.376174	
0.28165	11.510721	96.363509	3.509950
0.001647	0.318253	174.104942	
0.42247	11.510721	96.363509	3.509950
0.001647	0.968995	238.065753	
0.56329	11.510721	96.363509	3.509950
0.001647	1.619028	305.566574	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-9.014840	-162.265781	-1.551469
-0.002952	-0.984961	-24.907214	
0.14082	-9.014840	-162.265781	-1.551469
-0.002952	-0.333968	-48.110720	
0.28165	-9.014840	-162.265781	-1.551469
-0.002952	-0.717786	-79.202863	
0.42247	-9.014840	-162.265781	-1.551469
-0.002952	-2.189593	-112.040543	
0.56329	-9.014840	-162.265781	-1.551469
-0.002952	-3.661313	-148.350223	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.747848	135.198100	1.536080
0.002689	0.974435	3.984764	
0.14082	0.747848	135.198100	1.536080
0.002689	0.330538	7.669294	
0.28165	0.747848	135.198100	1.536080
0.002689	0.145418	11.460890	
0.42247	0.747848	135.198100	1.536080
0.002689	0.444071	15.340438	
0.56329	0.747848	135.198100	1.536080
0.002689	0.742673	19.291382	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.026534	-9.462501	-0.712273
-1.99E-05	-0.450865	-35.141251	
0.14082	-12.026534	-9.462501	-0.712273
-1.99E-05	-0.152246	-61.480990	
0.28165	-12.026534	-9.462501	-0.712273
-1.99E-05	-0.313564	-147.852421	
0.42247	-12.026534	-9.462501	-0.712273
-1.99E-05	-0.957405	-204.291456	
0.56329	-12.026534	-9.462501	-0.712273
-1.99E-05	-1.601305	-260.958377	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.190504	187.699427	2.468950
0.003677	1.566358	76.277991	
0.14082	2.190504	187.699427	2.468950
0.003677	0.531318	67.765222	
0.28165	2.190504	187.699427	2.468950
0.003677	0.206474	61.276558	
0.42247	2.190504	187.699427	2.468950
0.003677	0.629735	73.218260	
0.56329	2.190504	187.699427	2.468950
0.003677	1.053134	92.227634	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.356800	-47.816227	-1.009989
-0.001319	-0.642701	-40.954268	
0.14082	-17.356800	-47.816227	-1.009989
-0.001319	-0.221033	-94.954550	
0.28165	-17.356800	-47.816227	-1.009989
-0.001319	-0.503905	-156.331266	
0.42247	-17.356800	-47.816227	-1.009989
-0.001319	-1.536836	-218.221759	
0.56329	-17.356800	-47.816227	-1.009989
-0.001319	-2.573710	-286.382666	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	6.383952	162.130807	3.186043
0.003143	2.019605	70.743329	
0.14082	6.383952	162.130807	3.186043
0.003143	0.684126	87.284429	
0.28165	6.383952	162.130807	3.186043
0.003143	0.262045	105.265396	
0.42247	6.383952	162.130807	3.186043
0.003143	0.803992	136.875350	
0.56329	6.383952	162.130807	3.186043
0.003143	1.344267	173.799345	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.816303	-89.732613	-1.288708
-0.002033	-0.818800	-37.815455	
0.14082	-14.816303	-89.732613	-1.288708
-0.002033	-0.280093	-87.171564	
0.28165	-14.816303	-89.732613	-1.288708
-0.002033	-0.650550	-142.237826	
0.42247	-14.816303	-89.732613	-1.288708
-0.002033	-1.985804	-198.684693	
0.56329	-14.816303	-89.732613	-1.288708
-0.002033	-3.321717	-259.189610	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	10.610704	142.610964	3.564900
0.002617	2.259089	65.766615	
0.14082	10.610704	142.610964	3.564900
0.002617	0.764399	102.425688	
0.28165	10.610704	142.610964	3.564900
0.002617	0.320531	142.371537	
0.42247	10.610704	142.610964	3.564900
0.002617	0.975998	194.315776	
0.56329	10.610704	142.610964	3.564900
0.002617	1.631679	251.131522	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-12.766865	-137.219343	-1.563785
-0.002812	-0.992396	-41.243629	
0.14082	-12.766865	-137.219343	-1.563785
-0.002812	-0.337984	-80.011870	
0.28165	-12.766865	-137.219343	-1.563785
-0.002812	-0.728018	-126.269404	
0.42247	-12.766865	-137.219343	-1.563785
-0.002812	-2.222599	-175.354454	
0.56329	-12.766865	-137.219343	-1.563785
-0.002812	-3.717312	-228.926069	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	11.905847	161.474709	2.126727
0.003445	1.348055	84.821712	
0.14082	11.905847	161.474709	2.126727
0.003445	0.456514	130.666132	
0.28165	11.905847	161.474709	2.126727
0.003445	0.179613	181.620715	
0.42247	11.905847	161.474709	2.126727
0.003445	0.546925	239.846096	
0.56329	11.905847	161.474709	2.126727
0.003445	0.914155	303.770019	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-16.328185	-155.349504	-0.876004
-0.003825	-0.554752	-35.376603	
0.14082	-16.328185	-155.349504	-0.876004
-0.003825	-0.187434	-75.710243	
0.28165	-16.328185	-155.349504	-0.876004
-0.003825	-0.435029	-125.911800	
0.42247	-16.328185	-155.349504	-0.876004
-0.003825	-1.326570	-176.463522	
0.56329	-16.328185	-155.349504	-0.876004
-0.003825	-2.218111	-229.550775	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.937710	187.699427	3.564900
0.003677	2.259089	76.978127	
0.14082	12.937710	187.699427	3.564900
0.003677	0.764399	137.527573	
0.28165	12.937710	187.699427	3.564900
0.003677	0.323131	201.347115	
0.42247	12.937710	187.699427	3.564900
0.003677	0.982686	274.957549	
0.56329	12.937710	187.699427	3.564900
0.003677	1.641766	352.879292	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.356800	-187.284250	-1.572880
-0.003726	-0.997589	-41.243629	
0.14082	-17.356800	-187.284250	-1.572880
-0.003726	-0.338636	-94.954550	
0.28165	-17.356800	-187.284250	-1.572880
-0.003726	-0.728018	-156.331266	
0.42247	-17.356800	-187.284250	-1.572880
-0.003726	-2.222599	-218.221759	
0.56329	-17.356800	-187.284250	-1.572880
-0.003726	-3.717312	-286.382666	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.937710	187.699427	3.564900
0.003677	2.259089	84.821712	
0.14082	12.937710	187.699427	3.564900
0.003677	0.764399	137.527573	
0.28165	12.937710	187.699427	3.564900
0.003677	0.323131	201.347115	
0.42247	12.937710	187.699427	3.564900
0.003677	0.982686	274.957549	
0.56329	12.937710	187.699427	3.564900
0.003677	1.641766	352.879292	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.356800	-187.284250	-1.572880
-0.003825	-0.997589	-41.243629	
0.14082	-17.356800	-187.284250	-1.572880
-0.003825	-0.338636	-94.954550	
0.28165	-17.356800	-187.284250	-1.572880
-0.003825	-0.728018	-156.331266	
0.42247	-17.356800	-187.284250	-1.572880
-0.003825	-2.222599	-218.221759	
0.56329	-17.356800	-187.284250	-1.572880
-0.003825	-3.717312	-286.382666	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	12.937710	187.699427	3.564900
0.003677	2.259089	84.821712	
0.14082	12.937710	187.699427	3.564900
0.003677	0.764399	137.527573	
0.28165	12.937710	187.699427	3.564900
0.003677	0.323131	201.347115	
0.42247	12.937710	187.699427	3.564900
0.003677	0.982686	274.957549	
0.56329	12.937710	187.699427	3.564900
0.003677	1.641766	352.879292	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.356800	-187.284250	-1.572880
-0.003825	-0.997589	-41.243629	
0.14082	-17.356800	-187.284250	-1.572880
-0.003825	-0.338636	-94.954550	
0.28165	-17.356800	-187.284250	-1.572880
-0.003825	-0.728018	-156.331266	
0.42247	-17.356800	-187.284250	-1.572880
-0.003825	-2.222599	-218.221759	
0.56329	-17.356800	-187.284250	-1.572880
-0.003825	-3.717312	-286.382666	

ELEM 376 ========== LENGTH = 4.475174

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.477787	0.123580	0.150902
1.52E-05	0.354732	0.018243	
0.25000	0.477787	0.157957	0.150902
1.52E-05	0.185920	1.215668	
0.50000	0.477787	0.190049	0.150902
1.52E-05	0.017531	2.387905	
0.75000	0.477787	0.214724	0.150902
1.52E-05	0.146480	3.505253	
1.00000	0.477787	0.235603	0.150902
1.52E-05	0.303609	4.598354	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.048243	-1.148252	-0.140455
-0.002415	-0.324949	-0.029288	
0.25000	-0.048243	-1.109704	-0.140455
-0.002415	-0.167808	-0.139660	
0.50000	-0.048243	-1.078752	-0.140455
-0.002415	-0.010514	-0.277660	
0.75000	-0.048243	-1.052069	-0.140455
-0.002415	-0.151949	-0.415776	
1.00000	-0.048243	-1.033309	-0.140455
-0.002415	-0.320684	-0.598371	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.484605	9.403589	0.294330
0.000168	0.727934	0.046764	
0.25000	0.484605	41.443083	0.294330
0.000168	0.414439	84.677511	
0.50000	0.484605	71.352282	0.294330
0.000168	0.102015	104.835862	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.484605	94.349721	0.294330
0.000168	0.200597	73.812694	
1.00000	0.484605	113.809048	0.294330
0.000168	0.393002	20.191706	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.430511	-111.646656	-0.181829
-0.002971	-0.420706	0.054796	
0.25000	-0.430511	-75.719826	-0.181829
-0.002971	-0.217211	-10.521199	
0.50000	-0.430511	-46.872151	-0.181829
-0.002971	-0.042331	-21.041588	
0.75000	-0.430511	-22.003445	-0.181829
-0.002971	-0.330529	-31.562096	
1.00000	-0.430511	-4.518945	-0.181829
-0.002971	-0.656577	-83.487206	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.443380	6.537466	0.388684
0.001169	0.936775	0.045144	
0.25000	0.443380	28.349360	0.388684
0.001169	0.512694	58.917937	
0.50000	0.443380	48.711363	0.388684
0.001169	0.089613	73.929699	
0.75000	0.443380	64.367881	0.388684
0.001169	0.237381	54.097430	
1.00000	0.443380	77.615675	0.388684
0.001169	0.477034	18.880443	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.426678	-77.159609	-0.220855
-0.002612	-0.511341	-0.062441	
0.25000	-0.426678	-52.700838	-0.220855
-0.002612	-0.264241	-7.305999	
0.50000	-0.426678	-33.061515	-0.220855
-0.002612	-0.036784	-14.619402	
0.75000	-0.426678	-16.131949	-0.220855
-0.002612	-0.415923	-21.932877	
1.00000	-0.426678	-4.227707	-0.220855
-0.002612	-0.848552	-57.434373	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.525495	5.496693	0.421266
0.001876	1.008079	0.049386	
0.25000	0.525495	23.596256	0.421266
0.001876	0.545713	49.258816	
0.50000	0.525495	40.493387	0.421266
0.001876	0.084114	62.097313	
0.75000	0.525495	53.483965	0.421266
0.001876	0.286843	46.022690	
1.00000	0.525495	64.476815	0.421266
0.001876	0.582535	17.182030	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.397598	-64.367446	-0.269881
-0.002177	-0.625239	-0.064618	
0.25000	-0.397598	-44.071870	-0.269881
-0.002177	-0.323276	-6.133722	
0.50000	-0.397598	-27.775410	-0.269881
-0.002177	-0.037554	-12.283134	
0.75000	-0.397598	-13.726726	-0.269881
-0.002177	-0.445802	-18.432648	
1.00000	-0.397598	-3.849485	-0.269881
-0.002177	-0.915259	-47.972246	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.014921	7.804091	0.162111
0.000528	0.410826	0.024766	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.014921	34.618259	0.162111
0.000528	0.242681	70.238880	
0.50000	0.014921	59.649563	0.162111
0.000528	0.075296	86.463178	
0.75000	0.014921	78.896347	0.162111
0.000528	0.049957	59.853290	
1.00000	0.014921	95.182050	0.162111
0.000528	0.084977	14.330746	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.463080	-92.860386	-0.039532
-0.000246	-0.091909	-0.025538	
0.25000	-0.463080	-62.792867	-0.039532
-0.000246	-0.047589	-8.727590	
0.50000	-0.463080	-38.649963	-0.039532
-0.000246	-0.027434	-17.458763	
0.75000	-0.463080	-17.837097	-0.039532
-0.000246	-0.192263	-26.189930	
1.00000	-0.463080	-3.204147	-0.039532
-0.000246	-0.370986	-69.572958	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.145446	7.367218	0.293890
0.001752	0.716909	0.035060	
0.25000	0.145446	32.325121	0.293890
0.001752	0.400423	66.136151	
0.50000	0.145446	55.623489	0.293890
0.001752	0.084379	82.013037	
0.75000	0.145446	73.537803	0.293890
0.001752	0.134968	58.021126	
1.00000	0.145446	88.696034	0.293890
0.001752	0.262639	16.425896	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.449640	-87.124974	-0.121817
-0.000141	-0.282523	-0.042203	
0.25000	-0.449640	-59.139053	-0.121817
-0.000141	-0.146203	-8.228890	
0.50000	-0.449640	-36.667581	-0.121817
-0.000141	-0.032573	-16.471387	
0.75000	-0.449640	-17.295605	-0.121817
-0.000141	-0.324494	-24.713884	
1.00000	-0.449640	-3.675706	-0.121817
-0.000141	-0.650838	-65.209278	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.316539	5.344595	0.388125
0.001727	0.930099	0.039986	
0.25000	0.316539	23.011807	0.388125
0.001727	0.504579	48.216719	
0.50000	0.316539	39.502786	0.388125
0.001727	0.080289	60.875355	
0.75000	0.316539	52.183455	0.388125
0.001727	0.216823	45.312815	
1.00000	0.316539	62.913228	0.388125
0.001727	0.437715	17.289745	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.489206	-62.940892	-0.202761
-0.001708	-0.469684	-0.056733	
0.25000	-0.489206	-43.131023	-0.202761
-0.001708	-0.242769	-5.966936	
0.50000	-0.489206	-27.224563	-0.202761
-0.001708	-0.031803	-11.946285	
0.75000	-0.489206	-13.512087	-0.202761
-0.001708	-0.411571	-17.925669	
1.00000	-0.489206	-3.871224	-0.202761
-0.001708	-0.844053	-46.735367	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.296036	4.547252	0.421472
0.002253	1.004131	0.046132	
0.25000	0.296036	19.346611	0.421472
0.002253	0.539899	40.659278	
0.50000	0.296036	33.161965	0.421472
0.002253	0.076532	51.542316	
0.75000	0.296036	43.784709	0.421472
0.002253	0.277138	38.784135	
1.00000	0.296036	52.773165	0.421472
0.002253	0.565081	15.587624	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.474412	-52.975460	-0.261904
-0.001423	-0.606991	-0.058803	
0.25000	-0.474412	-36.380502	-0.261904
-0.001423	-0.313921	-5.066502	
0.50000	-0.474412	-23.055477	-0.261904
-0.001423	-0.034079	-10.153731	
0.75000	-0.474412	-11.568375	-0.261904
-0.001423	-0.443163	-15.241036	
1.00000	-0.474412	-3.492113	-0.261904
-0.001423	-0.913238	-39.453596	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036052	0.118624	0.151143
0.001198	0.352096	0.019993	
0.25000	0.036052	0.153001	0.151143
0.001198	0.183815	0.489930	
0.50000	0.036052	0.185093	0.151143
0.001198	0.014545	0.926895	
0.75000	0.036052	0.209768	0.151143
0.001198	0.151453	1.308944	
1.00000	0.036052	0.230647	0.151143
0.001198	0.314975	1.666746	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.142383	-0.491028	-0.146123
-8.69E-07	-0.338951	-0.017822	
0.25000	-0.142383	-0.452480	-0.146123
-8.69E-07	-0.175469	-0.116147	
0.50000	-0.142383	-0.421527	-0.146123
-8.69E-07	-0.011811	-0.248715	
0.75000	-0.142383	-0.394844	-0.146123
-8.69E-07	-0.154490	-0.381345	
1.00000	-0.142383	-0.376084	-0.146123
-8.69E-07	-0.323578	-0.558486	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257801	0.490010	0.268045
0.002297	0.627379	0.033046	
0.25000	0.257801	1.521325	0.268045
0.002297	0.328001	3.595381	
0.50000	0.257801	2.484067	0.268045
0.002297	0.028409	5.144457	
0.75000	0.257801	3.224328	0.268045
0.002297	0.243819	5.045263	
1.00000	0.257801	3.850701	0.268045
0.002297	0.506231	4.219059	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.176834	-4.398036	-0.234856
-6.48E-06	-0.544799	-0.033349	
0.25000	-0.176834	-3.241593	-0.234856
-6.48E-06	-0.282012	-0.521755	
0.50000	-0.176834	-2.313020	-0.234856
-6.48E-06	-0.019914	-1.069776	
0.75000	-0.176834	-1.512525	-0.234856
-6.48E-06	-0.274596	-1.617885	
1.00000	-0.176834	-0.949719	-0.234856
-6.48E-06	-0.574363	-3.498862	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.147579	0.735521	0.369971
0.002827	0.867034	0.035856	
0.25000	0.147579	2.375110	0.369971
0.002827	0.453923	6.012143	
0.50000	0.147579	3.905871	0.369971
0.002827	0.040941	8.756182	
0.75000	0.147579	5.082886	0.369971
0.002827	0.258647	8.880716	
1.00000	0.147579	6.078819	0.369971
0.002827	0.536910	7.848669	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.366376	-7.244591	-0.249123
-9.83E-06	-0.577969	-0.044596	
0.25000	-0.366376	-5.405847	-0.249123
-9.83E-06	-0.299265	-0.793097	
0.50000	-0.366376	-3.929416	-0.249123
-9.83E-06	-0.022035	-1.615612	
0.75000	-0.366376	-2.656629	-0.249123
-9.83E-06	-0.378479	-2.438194	
1.00000	-0.366376	-1.761768	-0.249123
-9.83E-06	-0.792216	-5.379960	

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.190630 5.315579 0.422663
0.002473 1.009445 0.048337
0.25000 0.190630 22.796354 0.422663
0.002473 0.545199 47.402838
0.50000 0.190630 39.114839 0.422663
0.002473 0.081753 59.624681
0.75000 0.190630 51.662262 0.422663
0.002473 0.278092 43.921890
1.00000 0.190630 62.279287 0.422663
0.002473 0.565280 15.889502

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.570215 -62.007991 -0.262079
-0.000905 -0.602579 -0.056247
0.25000 -0.570215 -42.406282 -0.262079
-0.000905 -0.314364 -5.922322
0.50000 -0.570215 -26.666966 -0.262079
-0.000905 -0.036693 -11.869165
0.75000 -0.570215 -13.098578 -0.262079
-0.000905 -0.447731 -17.816072
1.00000 -0.570215 3.559029 -0.262079
-0.000905 -0.918872 -46.353437

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.563407 0.165822 0.261350
1.20E-05 0.611515 0.022065
0.25000 0.563407 0.180474 0.261350
1.20E-05 0.319019 1.103895
0.50000 0.563407 0.200370 0.261350
1.20E-05 0.026308 2.189943
0.75000 0.563407 0.218827 0.261350
1.20E-05 0.187930 3.249010
1.00000 0.563407 0.234074 0.261350
1.20E-05 0.389850 4.302014

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.072526 -1.161505 -0.180438
-0.002573 -0.417704 -0.046089
0.25000 -0.072526 -1.137967 -0.180438
-0.002573 -0.215874 -0.181743
0.50000 -0.072526 -1.117519 -0.180438
-0.002573 -0.013630 -0.356044
0.75000 -0.072526 -1.101406 -0.180438
-0.002573 -0.265944 -0.529213
1.00000 -0.072526 -1.091853 -0.180438
-0.002573 -0.558504 -0.724831
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3922

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.580166 10.486046 0.451164
0.000112 1.108732 0.043890
0.25000 0.580166 33.811952 0.451164
0.000112 0.607156 67.109288
0.50000 0.580166 65.485521 0.451164
0.000112 0.114745 81.460043
0.75000 0.580166 94.869747 0.451164
0.000112 0.271637 53.683682
1.00000 0.580166 119.141907 0.451164
0.000112 0.516379 16.074415

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.418361 -115.352597 -0.239161
-0.003079 -0.553912 -0.074574
0.25000 -0.418361 -77.880124 -0.239161
-0.003079 -0.286272 -9.291369
0.50000 -0.418361 -45.327351 -0.239161
-0.003079 -0.051313 -18.586904
0.75000 -0.418361 -19.675947 -0.239161
-0.003079 -0.307036 -27.894718
1.00000 -0.418361 -4.466643 -0.239161
-0.003079 -0.987767 -72.676624

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.551017 7.632884 0.601660
0.001050 1.444112 0.048870
0.25000 0.551017 24.195449 0.601660
0.001050 0.775322 48.760982
0.50000 0.551017 46.685275 0.601660
0.001050 0.111538 60.089840
0.75000 0.551017 67.549552 0.601660
0.001050 0.339259 41.505894
1.00000 0.551017 84.784005 0.601660
0.001050 0.672426 15.939961

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.444148 -83.063273 -0.312150
-0.002734 -0.722994 -0.091369
0.25000 -0.444148 -56.455934 -0.312150
-0.002734 -0.373522 -6.778515
0.50000 -0.444148 -33.341829 -0.312150
-0.002734 -0.047634 -13.573190
0.75000 -0.444148 -15.128043 -0.312150
-0.002734 -0.631790 -20.375719
1.00000 -0.444148 -4.328674 -0.312150
-0.002734 -1.301484 -52.366605

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.590400 6.434829 0.676395
0.001805 1.611203 0.055502
0.25000 0.590400 20.182023 0.676395
0.001805 0.857775 40.826326
0.50000 0.590400 38.848936 0.676395
0.001805 0.107567 50.607216
0.75000 0.590400 56.166618 0.676395
0.001805 0.408199 35.560594
1.00000 0.590400 70.471488 0.676395
0.001805 0.822468 14.718314

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.422087 -69.321810 -0.381907
-0.002279 -0.884891 -0.101599
0.25000 -0.422087 -47.237295 -0.381907
-0.002279 -0.456987 -5.715146
0.50000 -0.422087 -28.052219 -0.381907
-0.002279 -0.049032 -11.459941
0.75000 -0.422087 -12.934487 -0.381907
-0.002279 -0.705869 -17.211062
1.00000 -0.422087 -3.970838 -0.381907
-0.002279 -1.459642 -43.868820
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3923

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.020315 7.297297 0.208402
0.000405 0.524031 0.018936
0.25000 0.020315 23.648875 0.208402
0.000405 0.294958 46.707072
0.50000 0.020315 45.852206 0.208402
0.000405 0.070545 56.427783
0.75000 0.020315 66.450695 0.208402
0.000405 0.079460 36.617499
1.00000 0.020315 83.465602 0.208402
0.000405 0.132564 9.914306

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.408788 -80.535797 -0.061822
-0.000216 -0.143753 -0.028337
0.25000 -0.408788 -54.267405 -0.061822
-0.000216 -0.074582 -6.451765
0.50000 -0.408788 -31.447747 -0.061822
-0.000216 -0.028431 -12.919047
0.75000 -0.408788 -13.465984 -0.061822
-0.000216 -0.231125 -19.395402
1.00000 -0.408788 -2.804183 -0.061822
-0.000216 -0.460960 -50.739162

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.136063 7.109189 0.430407
0.001616 1.041400 0.033915
0.25000 0.136063 22.713518 0.430407
0.001616 0.563982 45.252465
0.50000 0.136063 43.902180 0.430407
0.001616 0.089827 55.240442
0.75000 0.136063 63.559341 0.430407
0.001616 0.212162 37.047001
1.00000 0.136063 79.796684 0.430407
0.001616 0.411719 12.275195

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.421285 -77.566561 -0.191845
-0.000122 -0.444776 -0.059699
0.25000 -0.421285 -52.498607 -0.191845
-0.000122 -0.229642 -6.283447
0.50000 -0.421285 -30.721782 -0.191845
-0.000122 -0.037553 -12.598661
0.75000 -0.421285 -13.561767 -0.191845
-0.000122 -0.457355 -18.922205
1.00000 -0.421285 -3.387201 -0.191845
-0.000122 -0.935401 -48.976519

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.344780 4.819372 0.588557
0.001593 1.399491 0.042624
0.25000 0.344780 14.959988 0.588557
0.001593 0.774353 30.781301
0.50000 0.344780 28.729634 0.588557
0.001593 0.090328 38.665227
0.75000 0.344780 41.504020 0.588557
0.001593 0.312255 28.234941
1.00000 0.344780 52.056006 0.588557
0.001593 0.630371 13.529644

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.499912 -51.840803 -0.292875
-0.001787 -0.678586 -0.082390
0.25000 -0.499912 -35.550163 -0.292875
-0.001787 -0.350480 -4.299932
0.50000 -0.499912 -21.398295 -0.292875
-0.001787 -0.037134 -8.625669
0.75000 -0.499912 -10.246701 -0.292875
-0.001787 -0.610667 -12.955568
1.00000 -0.499912 -3.634667 -0.292875
-0.001787 -1.266632 -32.707076
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3924

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.335265 4.146417 0.678554
0.002159 1.604451 0.051995
0.25000 0.335265 12.662864 0.678554
0.002159 0.847497 26.132050
0.50000 0.335265 24.227098 0.678554
0.002159 0.091963 33.057461
0.75000 0.335265 34.955478 0.678554
0.002159 0.399117 24.602524
1.00000 0.335265 43.817409 0.678554
0.002159 0.815251 12.556765

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.500441 -43.836346 -0.378700
-0.001490 -0.878043 -0.094053
0.25000 -0.500441 -30.154892 -0.378700
-0.001490 -0.453296 -3.697919
0.50000 -0.500441 -18.266567 -0.378700
-0.001490 -0.041455 -7.435174
0.75000 -0.500441 -8.904151 -0.378700
-0.001490 -0.702153 -11.175739
1.00000 -0.500441 -3.351132 -0.378700
-0.001490 -1.459372 -27.867849

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.053131 0.162141 0.295224
0.001227 0.687115 0.025936
0.25000 0.053131 0.176793 0.295224
0.001227 0.356763 0.469972
0.50000 0.053131 0.196689 0.295224
0.001227 0.025723 0.941656
0.75000 0.053131 0.215146 0.295224
0.001227 0.219680 1.387884
1.00000 0.053131 0.230393 0.295224
0.001227 0.458665 1.827197

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.191095 -0.529765 -0.212838
-5.59E-07 -0.493815 -0.103574
0.25000 -0.191095 -0.506227 -0.212838
-5.59E-07 -0.255766 -0.141956
0.50000 -0.191095 -0.485779 -0.212838
-5.59E-07 -0.016580 -0.312007
0.75000 -0.191095 -0.469667 -0.212838
-5.59E-07 -0.303360 -0.481781
1.00000 -0.191095 -0.460113 -0.212838
-5.59E-07 -0.633705 -0.673712

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.254589 0.487645 0.498774
0.002377 1.163181 0.042278
0.25000 0.254589 0.971160 0.498774
0.002377 0.604969 2.298511
0.50000 0.254589 1.627710 0.498774
0.002377 0.046115 3.566359
0.75000 0.254589 2.236805 0.498774
0.002377 0.355737 3.962572
1.00000 0.254589 2.739934 0.498774
0.002377 0.741594 4.153562

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.231854 -3.362907 -0.344327
-4.21E-06 -0.798978 -0.068957
0.25000 -0.231854 -2.586153 -0.344327
-4.21E-06 -0.413325 -0.431942
0.50000 -0.231854 -1.911379 -0.344327
-4.21E-06 -0.027444 -0.909872
0.75000 -0.231854 -1.379660 -0.344327
-4.21E-06 -0.512099 -1.387571
1.00000 -0.231854 -1.064392 -0.344327
-4.21E-06 -1.070278 -2.600222
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3925

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.175193 0.382707 0.625619
0.002727 1.460570 0.046422
0.25000 0.175193 0.395894 0.625619
0.002727 0.760691 1.729634
0.50000 0.175193 0.413800 0.625619
0.002727 0.059569 3.504000
0.75000 0.175193 0.430412 0.625619
0.002727 0.384363 5.255480
1.00000 0.175193 0.444133 0.625619
0.002727 0.803645 7.000066

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.416329 -1.856204 -0.373651
-4.92E-06 -0.866714 -0.081793
0.25000 -0.416329 -1.835020 -0.373651
-4.92E-06 -0.448249 -0.351578
0.50000 -0.416329 -1.816617 -0.373651
-4.92E-06 -0.029457 -0.754501
0.75000 -0.416329 -1.802116 -0.373651
-4.92E-06 -0.639785 -1.156570
1.00000 -0.416329 -1.793517 -0.373651
-4.92E-06 -1.339238 -1.578302

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.227962 4.457267 0.686750
0.002383 1.624515 0.054007
0.25000 0.227962 13.687996 0.686750
0.002383 0.858291 27.994504
0.50000 0.227962 26.222135 0.686750
0.002383 0.093992 35.169453
0.75000 0.227962 37.850315 0.686750
0.002383 0.406117 25.674434
1.00000 0.227962 47.455504 0.686750
0.002383 0.829060 12.287261

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.593207 -47.179018 -0.385139
-0.000935 -0.893136 -0.092290
0.25000 -0.593207 -32.350387 -0.385139
-0.000935 -0.461812 -3.966052
0.50000 -0.593207 -19.468022 -0.385139
-0.000935 -0.043182 -7.979790
0.75000 -0.593207 -9.317027 -0.385139
-0.000935 -0.712294 -11.997425
1.00000 -0.593207 -3.298270 -0.385139
-0.000935 -1.478396 -30.052863

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.525495 9.403589 0.422663
0.002827 1.009445 0.049386
0.25000 0.525495 41.443083 0.422663
0.002827 0.545713 84.677511
0.50000 0.525495 71.352282 0.422663
0.002827 0.102015 104.835882
0.75000 0.525495 94.349721 0.422663
0.002827 0.582843 73.812894
1.00000 0.525495 113.809448 0.422663
0.002827 0.582535 20.191706

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.570215 -111.646656 -0.269881
-0.002971 -0.625239 -0.064618
0.25000 -0.570215 -75.719826 -0.269881
-0.002971 -0.323276 -10.521199
0.50000 -0.570215 -46.872151 -0.269881
-0.002971 -0.042331 -21.041588
0.75000 -0.570215 -22.003445 -0.269881
-0.002971 -0.447731 -31.562096
1.00000 -0.570215 -4.518945 -0.269881
-0.002971 -0.918872 -83.487206
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3926

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.590400 10.486046 0.686750
0.002727 1.624515 0.055502
0.25000 0.590400 33.811952 0.686750
0.002727 0.858291 67.109288
0.50000 0.590400 65.485521 0.686750
0.002727 0.114745 81.460043
0.75000 0.590400 94.869747 0.686750
0.002727 0.408199 53.683682
1.00000 0.590400 119.141907 0.686750
0.002727 0.829060 16.074415

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.593207 -115.352597 -0.385139
-0.003079 -0.893136 -0.101599
0.25000 -0.593207 -77.880124 -0.385139
-0.003079 -0.461812 -9.291369
0.50000 -0.593207 -45.327351 -0.385139
-0.003079 -0.051313 -18.586904
0.75000 -0.593207 -19.675947 -0.385139
-0.003079 -0.712294 -27.894718
1.00000 -0.593207 -4.466643 -0.385139
-0.003079 -1.478396 -72.676624

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.590400 10.486046 0.686750
0.002827 1.624515 0.055502
0.25000 0.590400 41.443083 0.686750
0.002827 0.858291 84.677511
0.50000 0.590400 71.352282 0.686750
0.002827 0.114745 104.835882
0.75000 0.590400 94.869747 0.686750
0.002827 0.408199 73.812894
1.00000 0.590400 119.141907 0.686750
0.002827 0.829060 20.191706

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.593207 -115.352597 -0.385139
-0.003079 -0.893136 -0.101599
0.25000 -0.593207 -77.880124 -0.385139
-0.003079 -0.461812 -10.521199
0.50000 -0.593207 -46.872151 -0.385139
-0.003079 -0.051313 -21.041588
0.75000 -0.593207 -22.003445 -0.385139
-0.003079 -0.712294 -31.562096
1.00000 -0.593207 -4.518945 -0.385139
-0.003079 -1.478396 -83.487206

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.590400 10.486046 0.686750
0.002827 1.624515 0.055502
0.25000 0.590400 41.443083 0.686750
0.002827 0.858291 84.677511
0.50000 0.590400 71.352282 0.686750
0.002827 0.114745 104.835882
0.75000 0.590400 94.869747 0.686750
0.002827 0.408199 73.812894
1.00000 0.590400 119.141907 0.686750
0.002827 0.829060 20.191706

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.593207 -115.352597 -0.385139
-0.003079 -0.893136 -0.101599
0.25000 -0.593207 -77.880124 -0.385139
-0.003079 -0.461812 -10.521199
0.50000 -0.593207 -46.872151 -0.385139
-0.003079 -0.051313 -21.041588
0.75000 -0.593207 -22.003445 -0.385139
-0.003079 -0.712294 -31.562096
1.00000 -0.593207 -4.518945 -0.385139
-0.003079 -1.478396 -83.487206
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3927

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 377 ========== LENGTH = 4.972248

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.762759 0.125178 0.095589
7.44E-06 0.235449 4.572172
0.25000 0.762759 0.149468 0.095589
7.44E-06 0.123380 4.903601
0.50000 0.762759 0.181249 0.095589
7.44E-06 0.016593 5.336150
0.75000 0.762759 0.211040 0.095589
7.44E-06 0.132116 5.806439
1.00000 0.762759 0.242704 0.095589
7.44E-06 0.262084 6.275992

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.073706 -0.636237 -0.104556
-0.001542 -0.257816 -0.603500
0.25000 -0.073706 -0.604894 -0.104556
-0.001542 -0.127841 -0.630279
0.50000 -0.073706 -0.575919 -0.104556
-0.001542 -0.002592 -0.710769
0.75000 -0.073706 -0.544235 -0.104556
-0.001542 -0.121040 -0.792222
1.00000 -0.073706 -0.520175 -0.104556
-0.001542 -0.239882 -0.929307

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.786108 11.103402 0.188264
8.38E-05 0.495290 20.148953
0.25000 0.786108 33.742012 0.188264
8.38E-05 0.268984 72.753871
0.50000 0.786108 63.361911 0.188264
8.38E-05 0.073413 103.171588
0.75000 0.786108 91.127191 0.188264
8.38E-05 0.179609 80.802761
1.00000 0.786108 120.637962 0.188264
8.38E-05 0.338379 23.523077

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.677556 -120.627767 -0.135053
-0.001930 -0.355583 -83.499264
0.25000 -0.677556 -91.416353 -0.135053
-0.001930 -0.189792 -32.149842
0.50000 -0.677556 -64.411435 -0.135053
-0.001930 -0.050518 -30.785785
0.75000 -0.677556 -34.882317 -0.135053
-0.001930 -0.253599 -29.982468
1.00000 -0.677556 -12.457542 -0.135053
-0.001930 -0.483698 -80.965997

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.719959 7.771686 0.247262
0.000580 0.643588 18.822980
0.25000 0.719959 23.183916 0.247262
0.000580 0.341621 54.808564
0.50000 0.719959 43.348965 0.247262
0.000580 0.067424 75.940404
0.75000 0.719959 62.251401 0.247262
0.000580 0.211548 61.286901
1.00000 0.719959 82.342156 0.247262
0.000580 0.408281 22.956816

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.665142 -82.712620 -0.163210
-0.001693 -0.418530 -57.430442
0.25000 -0.665142 -62.825665 -0.163210
-0.001693 -0.217009 -22.571905
0.50000 -0.665142 -44.440880 -0.163210
-0.001693 -0.036256 -21.743119
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3928

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.665142 -24.337633 -0.163210
-0.001693 -0.312541 -21.296169
1.00000 -0.665142 -9.070981 -0.163210
-0.001693 -0.615291 -56.105400

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.854244 6.504037 0.269279

```
 0.001043     0.697587    17.115407
 0.25000      0.854244    19.292908      0.269279
 0.001043     0.367374    47.088631
 0.50000      0.854244    36.025609      0.269279
 0.001043     0.061358    64.758888
 0.75000      0.854244    51.710609      0.269279
 0.001043     0.253631    52.777633
 1.00000      0.854244    68.381661      0.269279
 0.001043     0.494968    21.170026

COMB DB-G1-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.624568   -68.819587    -0.198218
-0.001411    -0.503292   -47.952278
 0.25000    -0.624568   -52.317645    -0.198218
-0.001411    -0.256026   -19.081828
 0.50000    -0.624568   -37.062185    -0.198218
-0.001411    -0.030602   -18.448831
 0.75000    -0.624568   -20.380768    -0.198218
-0.001411    -0.334988   -18.132679
 1.00000    -0.624568    -7.712695    -0.198218
-0.001411    -0.665822   -47.071655

COMB DB-G2-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.022956     9.287432     0.109918
 0.000246    0.288310    14.307833
 0.25000     0.022956    28.233908     0.109918
 0.000246    0.157934    58.095951
 0.50000     0.022956    53.023094     0.109918
 0.000246    0.051291    83.227017
 0.75000     0.022956    76.260131     0.109918
 0.000246    0.042556    64.201947
 1.00000     0.022956   100.957986     0.109918
 0.000246    0.069630    15.983760

COMB DB-G2-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.718741  -100.714903    -0.027903
-0.0001180   -0.0857949   -69.574041
 0.25000    -0.718741   -76.267582    -0.027903
-0.000180    -0.055373   -26.552417
 0.50000    -0.718741   -53.666900    -0.027903
-0.000180    -0.040429   -25.363980
 0.75000    -0.718741   -28.953689    -0.027903
-0.000180    -0.150573   -24.644482
 1.00000    -0.718741    -0.186174    -0.027903
-0.000180    -0.287051   -67.265862

COMB DB-G2-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.236749     8.699669     0.194359
 0.000913    0.503888    16.383012
 0.25000     0.236749    26.334466     0.194359
 0.000913    0.268231    57.284403
 0.50000     0.236749    49.407477     0.194359
 0.000913    0.058936    81.002830
 0.75000     0.236749    71.035797     0.194359
 0.000913    0.117307    63.650460
 1.00000     0.236749    94.023800     0.194359
 0.000913    0.220307    19.143285

COMB DB-G2-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.702525   -94.077760    -0.088499
-0.000101    -0.237202   -65.192996
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3929

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.25000    -0.702525   -71.322946    -0.088499
-0.000101    -0.128765   -25.227293
 0.50000    -0.702525   -50.286927    -0.088499
-0.000101    -0.038612   -24.198632
 0.75000    -0.702525   -27.894631    -0.088499
-0.000101    -0.248027   -23.660446
 1.00000    -0.702525    -9.816404    -0.088499
-0.000101    -0.489395   -63.354601

COMB DB-G2-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.526407     6.515582     0.248734
 0.000827    0.644575    17.230050
 0.25000     0.526407    18.998394     0.248734
 0.000827    0.339770    46.270172
 0.50000     0.526407    35.330654     0.248734
 0.000827    0.165971    63.394335
 0.75000     0.526407    50.640287     0.248734
 0.000827    0.191996    51.758320
 1.00000     0.526407    66.912374     0.248734
 0.000827    0.372304    21.053986

COMB DB-G2-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.765470   -67.330220    -0.149076
-0.001200    -0.381144   -46.721220
 0.25000    -0.765470   -51.223197    -0.149076
-0.001200    -0.196980   -18.526026
 0.50000    -0.765470   -36.332825    -0.149076
-0.001200    -0.029643   -17.892556
 0.75000    -0.765470   -20.050621    -0.149076
-0.001200    -0.302786   -17.568290
 1.00000    -0.765470    -7.685715    -0.149076
-0.001200    -0.611717   -45.799000

COMB DB-G2-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.491159     5.495368     0.271604
 0.001228    0.700839    15.517477
 0.25000     0.491159    15.952365     0.271604
 0.001228    0.366889    39.980435
 0.50000     0.491159    29.634089     0.271604
 0.001228    0.054351    54.468390
 0.75000     0.491159    42.459146     0.271604
 0.001228    0.243883    44.857092
 1.00000     0.491159    56.090462     0.271604
 0.001228    0.477890    19.272964

COMB DB-G2-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.752683   -56.511229    -0.191619
-0.001000    -0.485119   -39.428472
 0.25000    -0.752683   -43.018189    -0.191619
-0.001000    -0.247874   -15.857275
 0.50000    -0.752683   -30.544351    -0.191619
-0.001000    -0.025316   -15.379852
 0.75000    -0.752683   -16.904560    -0.191619
-0.001000    -0.326718   -15.161454
 1.00000    -0.752683    -6.546335    -0.191619
-0.001000    -0.666100   -38.863889

COMB DB-G3-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.060372     0.081296     0.099872
 0.000819    0.253609     1.634116
 0.25000     0.060372     0.105587     0.099872
 0.000819    0.129473     1.877575
 0.50000     0.060372     0.137368     0.099872
 0.000819    0.006112     2.100541
 0.75000     0.060372     0.167159     0.099872
 0.000819    0.131986     2.273967
 1.00000     0.060372     0.198823     0.099872
 0.000819    0.263774     2.414945
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3930

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.240496   -0.302279    -0.106023
-6.57E-07    -0.263422   -0.523352
 0.25000    -0.240496   -0.270936    -0.106023
-6.57E-07    -0.131612   -0.556894
 0.50000    -0.240496   -0.241961    -0.106023
-6.57E-07    -0.000871   -0.638067
 0.75000    -0.240496   -0.210277    -0.106023
-6.57E-07    -0.118913   -0.719843
 1.00000    -0.240496   -0.186218    -0.106023
-6.57E-07    -0.243023   -0.857183

COMB DB-G3-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.425454    0.494342     0.175548
 0.001465    0.447296    4.166285
 0.25000     0.425454    1.223052     0.175548
 0.001465    0.229385    6.167631
 0.50000     0.425454    2.176483     0.175548
 0.001465    0.015378    7.482073
 0.75000     0.425454    3.070215     0.175548
 0.001465    0.212273    7.175743
 1.00000     0.425454    4.020132     0.175548
 0.001465    0.423735    5.779302

COMB DB-G3-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.299196   -4.314803    -0.170330
-4.66E-06    -0.423891   -3.452983
 0.25000    -0.299196   -3.374522    -0.170330
-4.66E-06    -0.212201   -1.942231
 0.50000    -0.299196   -2.505265    -0.170330
-4.66E-06    -0.002999   -2.040447
 0.75000    -0.299196   -1.554756    -0.170330
-4.66E-06    -0.208708   -2.156699
 1.00000    -0.299196   -0.832929    -0.170330
-4.66E-06    -0.426781   -3.939907

COMB DB-G3-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.242304    0.897943     0.240649
 0.001670    0.614761    7.782061
 0.25000     0.242304    2.056593     0.240649
 0.001670    0.316151    10.793151
 0.50000     0.242304    3.572547     0.240649
 0.001670    0.026776    12.896315
 0.75000     0.242304    4.993581     0.240649
 0.001670    0.224848    12.515926
 1.00000     0.242304    6.503950     0.240649
 0.001670    0.448777    10.487498

COMB DB-G3-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.583525   -6.992202    -0.180456
-7.05E-06    -0.449637   -5.329892
 0.25000    -0.583525   -5.497154    -0.180456
-7.05E-06    -0.225351   -2.893000
 0.50000    -0.583525   -4.115035    -0.180456
-7.05E-06    -0.004882   -3.014369
 0.75000    -0.583525   -2.603727    -0.180456
-7.05E-06    -0.284840   -3.164415
 1.00000    -0.583525   -1.456022    -0.180456
-7.05E-06    -0.583785   -5.964922

COMB DB-G3-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.314812    6.384285     0.275466
 0.001384    0.709613    15.817434
 0.25000     0.314812    18.735930    0.275466
 0.001384    0.371450    44.648356
 0.50000     0.314812    34.896572    0.275466
 0.001384    0.055607    61.551869
 0.75000     0.314812    50.045333    0.275466
 0.001384    0.224714    49.340440
 1.00000     0.314812    66.146435    0.275466
 0.001384    0.476494    19.347362
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3931

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.920464   -66.451724    -0.191186
-0.000662    -0.486438   -46.316645
 0.25000    -0.920464   -50.513951    -0.191186
-0.000662    -0.249835   -18.440360
 0.50000    -0.920464   -35.780045    -0.191186
-0.000662    -0.028865   -17.836161
 0.75000    -0.920464   -19.668933    -0.191186
-0.000662    -0.337048   -17.537793
 1.00000    -0.920464    -7.433956    -0.191186
-0.000662    -0.679207   -45.494333

COMB DL-G1-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.893735    0.194108     0.170509
 6.19E-06    0.430792    4.299091
 0.25000     0.893735    0.202295     0.170509
 6.19E-06    0.220650    4.681467
 0.50000     0.893735    0.221850     0.170509
 6.19E-06    0.018798    5.106251
 0.75000     0.893735    0.242986     0.170509
 6.19E-06    0.168060    5.562542
 1.00000     0.893735    0.261521     0.170509
 6.19E-06    0.333800    6.025126

COMB DL-G1-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.110625   -0.573167    -0.133337
-0.001601    -0.329283   -0.745488
 0.25000    -0.110625   -0.554476    -0.133337
-0.001601    -0.163567   -0.819993
 0.50000    -0.110625   -0.533302    -0.133337
-0.001601    -0.003153   -0.921242
 0.75000    -0.110625   -0.513917    -0.133337
-0.001601    -0.205146   -1.022745
 1.00000    -0.110625   -0.506284    -0.133337
-0.001601    -0.417324   -1.152543

COMB DL-G1-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.921743    12.312399    0.296388
 5.69E-05    0.757189    16.054071
 0.25000     0.921743    25.504596    0.296388
 5.69E-05    0.406288    57.916637
 0.50000     0.921743    56.476997    0.296388
 5.69E-05    0.077117    82.200206
 0.75000     0.921743    90.126074    0.296388
 5.69E-05    0.240789    60.507151
 1.00000     0.921743   119.633976    0.296388
 5.69E-05    0.440024    21.280784

COMB DL-G1-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.659855  -120.473294    -0.181287
-0.001887    -0.477920   -72.711028
 0.25000    -0.659855   -90.718095    -0.181287
-0.001887    -0.252671   -27.896346
 0.50000    -0.659855   -57.008569    -0.181287
-0.001887    -0.039147   -27.477000
 0.75000    -0.659855   -26.148262    -0.181287
-0.001887    -0.378436   -27.193543
 1.00000    -0.659855   -13.995646    -0.181287
-0.001887    -0.741700   -71.662346

COMB DL-G1-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.876819    9.020583     0.392177
 0.000492    1.002963    15.881354
 0.25000     0.876819    18.387706    0.392177
 0.000492    0.528144    45.933150
 0.50000     0.876819    40.379668    0.392177
 0.000492    0.072714    63.615573
 0.75000     0.876819    64.272203    0.392177
 0.000492    0.296586    48.708028
 1.00000     0.876819    85.224296    0.392177
 0.000492    0.564927    21.967755
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3932

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.698906   -86.103633    -0.230563
-0.001669    -0.592909   -52.372794
 0.25000    -0.698906   -64.975946    -0.230563
-0.001669    -0.306027   -20.683580
 0.50000    -0.698906   -41.040489    -0.230563
-0.001669    -0.019742   -20.515389
 0.75000    -0.698906   -19.128120    -0.230563
-0.001669    -0.482743   -20.444740
 1.00000    -0.698906   -10.499152    -0.230563
-0.001669    -0.966011   -52.148478

COMB DL-G1-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.944790    7.563503     0.444738
 0.000954    1.133654    14.632842
 0.25000     0.944790    15.338364    0.444738
 0.000954    0.591117    39.745719
 0.50000     0.944790    33.592042    0.444738
 0.000954    0.066346    54.615373
 0.75000     0.944790    53.423227    0.444738
 0.000954    0.356018    42.460703
 1.00000     0.944790    70.813798    0.444738
 0.000954    0.689664    19.984078

COMB DL-G1-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.670713   -71.671201    -0.280205
-0.001391    -0.713002   -43.847816
 0.25000    -0.670713   -54.134884    -0.280205
-0.001391    -0.363986   -17.615176
 0.50000    -0.670713   -34.268074    -0.280205
-0.001391    -0.025434   -17.545781
 0.75000    -0.670713   -16.080458    -0.280205
-0.001391    -0.544272   -17.556565
 1.00000    -0.670713    -8.918277    -0.280205
-0.001391    -1.093842   -43.940938

COMB DL-G2-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.031524    8.685536     0.137823
 0.000203    0.353142    9.883749
 0.25000     0.031524    17.934332    0.137823
 0.000203    0.194262    38.962651
 0.50000     0.031524    39.646141    0.137823
 0.000203    0.046008    55.778336
 0.75000     0.031524    63.234314    0.137823
 0.000203    0.106789    40.471431
 1.00000     0.031524    83.919501    0.137823
 0.000203    0.106978    12.852163

COMB DL-G2-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.634865   -84.371572    -0.047111
-0.000161    -0.138526   -50.740653
 0.25000    -0.634865   -63.513028    -0.047111
-0.000161    -0.079997   -19.282791
 0.50000    -0.634865   -39.882481    -0.047111
-0.000161    -0.025711   -18.947933
 0.75000    -0.634865   -18.249251    -0.047111
-0.000161    -0.178435   -18.707217
 1.00000    -0.634865    -9.730206    -0.047111
-0.000161    -0.346163   -49.846704

COMB DL-G2-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.219791    8.384199     0.283341
 0.000793    0.723844    12.199587
 0.25000     0.219791    17.209381    0.283341
 0.000793    0.383760    40.293199
 0.50000     0.219791    37.928984    0.283341
 0.000793    0.055946    56.693560
 0.75000     0.219791    60.439202    0.283341
 0.000793    0.180791    42.400651
 1.00000     0.219791    80.179098    0.283341
 0.000793    0.338222    16.368766
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3933

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.665600   -80.844443    -0.140253
-8.40E-05    -0.369451   -48.948245
 0.25000    -0.665600   -60.939112    -0.140253
-8.40E-05    -0.194581   -19.042598
 0.50000    -0.665600   -38.388456    -0.140253
-8.40E-05    -0.025662   -18.835392
 0.75000    -0.665600   -17.743841    -0.140253
-8.40E-05    -0.351018   -18.719466
 1.00000    -0.665600    -9.614107    -0.140253
-8.40E-05    -0.699615   -48.539685

COMB DL-G2-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.558785    5.924970     0.384220
 0.000720    0.981435    13.453202
 0.25000     0.558785    11.660096    0.384220
 0.000720    0.511948    31.897779
 0.50000     0.558785    25.124919    0.384220
 0.000720    0.058108    43.010521
 0.75000     0.558785    39.753390    0.384220
 0.000720    0.271005    34.414570
 1.00000     0.558785    52.581543    0.384220
 0.000720    0.526026    18.193974

COMB DL-G2-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.793375   -53.318865    -0.213940
-0.001125    -0.544156   -32.692099
 0.25000    -0.793375   -40.383203    -0.213940
-0.001125    -0.277804   -13.376586
 0.50000    -0.793375   -25.728453    -0.213940
-0.001125    -0.019621   -13.361444
 0.75000    -0.793375   -12.312360    -0.213940
-0.001125    -0.462707   -13.403918
 1.00000    -0.793375    -7.029179    -0.213940
-0.001125    -0.937738   -32.908915

COMB DL-G2-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.545836    5.026208     0.448488
 0.001131    1.140920    12.452796
 0.25000     0.545836    9.842769     0.448488
 0.001131    0.590270    28.120490
 0.50000     0.545836    21.151003    0.448488
 0.001131    0.053571    37.624603
 0.75000     0.545836    33.436509    0.448488
 0.001131    0.346184    30.565428
 1.00000     0.545836    44.210044    0.448488
 0.001131    0.680186    17.102433

COMB DL-G2-4 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.804241   -44.917478    -0.275598
-0.000937    -0.695588   -27.826326
 0.25000    -0.804241   -34.053653    -0.275598
-0.000937    -0.352060   -11.674443
 0.50000    -0.804241   -21.746076    -0.275598
-0.000937    -0.017125   -11.731581
 0.75000    -0.804241   -10.478769    -0.275598
-0.000937    -0.541008   -11.837075
 1.00000    -0.804241    -6.041766    -0.275598
-0.000937    -1.096298   -28.287874

COMB DL-G3-1 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.089920    0.105005     0.202918
 0.000815    0.509806    1.763507
 0.25000     0.089920    0.113292     0.202918
 0.000815    0.257608    2.025954
 0.50000     0.089920    0.132747     0.202918
 0.000815    0.006914    2.281073
 0.75000     0.089920    0.153383     0.202918
 0.000815    0.190585    2.513932
 1.00000     0.089920    0.172418     0.202918
 0.000815    0.382746    2.736980
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3934

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.321577   -0.296892    -0.153978
-3.91E-07    -0.382915   -0.627623
 0.25000    -0.321577   -0.278522    -0.153978
-3.91E-07    -0.190730   -0.709455
 0.50000    -0.321577   -0.257027    -0.153978
-3.91E-07    -0.001096   -0.819811
 0.75000    -0.321577   -0.237643    -0.153978
-3.91E-07    -0.246287   -0.929609
 1.00000    -0.321577   -0.230009    -0.153978
-3.91E-07    -0.498593   -1.066537

COMB DL-G3-2 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.418000    0.454727     0.338361
 0.001445    0.853219    4.048264
 0.25000     0.418000    0.728183     0.338361
 0.001445    0.432844    5.334432
 0.50000     0.418000    1.370199     0.338361
 0.001445    0.016596    6.293565
 0.75000     0.418000    2.067699     0.338361
 0.001445    0.308361    6.397694
 1.00000     0.418000    2.679357     0.338361
 0.001445    0.618801    6.128895

COMB DL-G3-2 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.391619   -3.012949    -0.249162
-2.90E-06    -0.620082   -2.526568
 0.25000    -0.391619   -2.396164    -0.249162
-2.90E-06    -0.309051   -1.787948
 0.50000    -0.391619   -1.697411    -0.249162
-2.90E-06    -0.002618   -1.969497
 0.75000    -0.391619   -1.057719    -0.249162
-2.90E-06    -0.408825   -2.153825
 1.00000    -0.391619    -0.805812   -0.249162
-2.90E-06    -0.829473   -3.265722

COMB DL-G3-3 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.287703    0.498657     0.417474
 0.001568    1.058545    6.871342
 0.25000     0.287703    0.506115     0.417474
 0.001568    0.540195    7.427529
 0.50000     0.287703    0.523235     0.417474
 0.001568    0.026757    8.154720
 0.75000     0.287703    0.542647     0.417474
 0.001568    0.330154    9.034763
 1.00000     0.287703    0.559329     0.417474
 0.001568    0.664933    9.918083

COMB DL-G3-3 ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.672831   -1.011656    -0.268102
-3.44E-06    -0.667803   -1.497615
 0.25000    -0.672831   -0.994835    -0.268102
-3.44E-06    -0.333117   -1.734988
 0.50000    -0.672831   -0.975778    -0.268102
-3.44E-06    -0.002932   -1.996050
 0.75000    -0.672831   -0.958332    -0.268102
-3.44E-06    -0.499109   -2.257389
 1.00000    -0.672831   -0.951462    -0.268102
-3.44E-06    -1.017476   -2.544084

COMB DL-G3-4 ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.373970    5.394915     0.457386
 0.001302    1.161610    12.169604
 0.25000     0.373970    10.615446    0.457386
 0.001302    0.600573    29.034646
 0.50000     0.373970    22.872112    0.457386
 0.001302    0.051991    39.190381
 0.75000     0.373970    36.188016    0.457386
 0.001302    0.351186    31.404975
 1.00000     0.373970    47.865137    0.457386
 0.001302    0.690113    16.678956
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                3935
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.957156	-48.543350	-0.279874
-0.000626	-0.707777	-29.997472	
0.25000	-0.957156	-36.768366	-0.279874
-0.000626	-0.538592	-12.467530	
0.50000	-0.957156	-23.428541	-0.279874
-0.000626	-0.017712	-12.505395	
0.75000	-0.957156	-11.216233	-0.279874
-0.000626	-0.554427	-12.597607	
1.00000	-0.957156	-6.407095	-0.279874
-0.000626	-1.120404	-30.398378	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.854244	11.103402	0.275466
0.001670	0.709613	20.148953	
0.25000	0.854244	33.742012	0.275466
0.001670	0.371450	72.753871	
0.50000	0.854244	63.361911	0.275466
0.001670	0.073413	103.171588	
0.75000	0.854244	91.127191	0.275466
0.001670	0.253631	80.802761	
1.00000	0.854244	120.637962	0.275466
0.001670	0.494968	23.523077	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.920464	-120.627767	-0.198218
-0.001930	-0.503292	-83.499264	
0.25000	-0.920464	-91.416353	-0.198218
-0.001930	-0.258026	-32.149842	
0.50000	-0.920464	-64.411435	-0.198218
-0.001930	-0.050518	-30.785785	
0.75000	-0.920464	-34.882317	-0.198218
-0.001930	-0.337048	-29.982468	
1.00000	-0.920464	-12.457542	-0.198218
-0.001930	-0.679207	-80.965997	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.944790	12.312399	0.457386
0.001568	1.161616	16.054071	
0.25000	0.944790	25.504596	0.457386
0.001568	0.600573	57.916637	
0.50000	0.944790	56.476997	0.457386
0.001568	0.077117	82.200206	
0.75000	0.944790	90.126474	0.457386
0.001568	0.356018	60.507151	
1.00000	0.944790	119.633976	0.457386
0.001568	0.690113	21.367755	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.957156	-120.473294	-0.280205
-0.001887	-0.713002	-72.711028	
0.25000	-0.957156	-90.718095	-0.280205
-0.001887	-0.363986	-27.896346	
0.50000	-0.957156	-57.008569	-0.280205
-0.001887	-0.039147	-27.477000	
0.75000	-0.957156	-26.148262	-0.280205
-0.001887	-0.554427	-27.193543	
1.00000	-0.957156	-13.995646	-0.280205
-0.001887	-1.120404	-71.662346	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.944790	12.312399	0.457386
0.001670	1.161616	20.148953	
0.25000	0.944790	33.742012	0.457386
0.001670	0.600573	72.753871	
0.50000	0.944790	63.361911	0.457386
0.001670	0.077117	103.171588	
0.75000	0.944790	91.127191	0.457386
0.001670	0.356018	80.802761	
1.00000	0.944790	120.637962	0.457386
0.001670	0.690113	23.523077	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3936

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.957156	-120.627767	-0.280205
-0.001930	-0.713002	-83.499264	
0.25000	-0.957156	-91.416353	-0.280205
-0.001930	-0.363986	-32.149842	
0.50000	-0.957156	-64.411435	-0.280205
-0.001930	-0.050518	-30.785785	
0.75000	-0.957156	-34.882317	-0.280205
-0.001930	-0.554427	-29.982468	
1.00000	-0.957156	-13.995646	-0.280205
-0.001930	-1.120404	-80.965997	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.944790	12.312399	0.457386
0.001670	1.161616	20.148953	
0.25000	0.944790	33.742012	0.457386
0.001670	0.600573	72.753871	
0.50000	0.944790	63.361911	0.457386
0.001670	0.077117	103.171588	
0.75000	0.944790	91.127191	0.457386
0.001670	0.356018	80.802761	
1.00000	0.944790	120.637962	0.457386
0.001670	0.690113	23.523077	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.957156	-120.627767	-0.280205
-0.001930	-0.713002	-83.499264	
0.25000	-0.957156	-91.416353	-0.280205
-0.001930	-0.363986	-32.149842	
0.50000	-0.957156	-64.411435	-0.280205
-0.001930	-0.050518	-30.785785	
0.75000	-0.957156	-34.882317	-0.280205
-0.001930	-0.554427	-29.982468	
1.00000	-0.957156	-13.995646	-0.280205
-0.001930	-1.120404	-80.965997	

ELEM 378 ========== LENGTH = 4.973312

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.722363	0.222368	0.099176
5.25E-06	0.245513	6.267820	
0.25000	0.722363	0.246469	0.099176
5.25E-06	0.122206	6.456736	
0.50000	0.722363	0.278247	0.099176
5.25E-06	0.021640	6.740551	
0.75000	0.722363	0.308118	0.099176
5.25E-06	0.134729	7.095180	
1.00000	0.722363	0.339748	0.099176
5.25E-06	0.268619	7.476979	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.760132	91.179063	0.177710
5.45E-05	0.185871	82.856084	
1.00000	0.760132	120.658939	0.177710
5.45E-05	0.346653	25.174923	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.632333	-121.089347	-0.138907
-0.001303	-0.355370	-81.008193	
0.25000	-0.632333	-91.638950	-0.138907
-0.001303	-0.188325	-29.871904	
0.50000	-0.632333	-63.792787	-0.138907
-0.001303	-0.046157	-29.374805	
0.75000	-0.632333	-34.182054	-0.138907
-0.001303	-0.235678	-29.876359	
1.00000	-0.632333	-11.656482	-0.138907
-0.001303	-0.451258	-80.991122	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.698776	7.955593	0.217370
0.000368	0.562622	22.884653	
0.25000	0.698776	23.247402	0.217370
0.000368	0.298003	62.724768	
0.50000	0.698776	43.410600	0.217370
0.000368	0.079773	78.863776	
0.75000	0.698776	62.366488	0.217370
0.000368	0.214096	64.032650	
1.00000	0.698776	82.433290	0.217370
0.000368	0.412131	25.316319	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.607696	-83.000057	-0.165751
-0.001295	-0.419893	-56.124442	
0.25000	-0.607696	-62.950404	-0.165751
-0.001295	-0.217580	-21.436808	
0.50000	-0.607696	-43.992904	-0.165751
-0.001295	-0.035128	-21.224041	
0.75000	-0.607696	-23.834094	-0.165751
-0.001295	-0.269112	-21.691151	
1.00000	-0.607696	-8.505629	-0.165751
-0.001295	-0.535428	-56.615431	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.832259	6.683457	0.235564
0.000649	0.606152	21.099310	
0.25000	0.832259	19.372322	0.235564
0.000649	0.318461	54.270571	
0.50000	0.832259	36.103486	0.235564
0.000649	0.074978	67.785491	
0.75000	0.832259	51.830416	0.235564
0.000649	0.252539	55.635302	
1.00000	0.832259	68.484016	0.235564
0.000649	0.493172	23.715758	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.588959	-69.067329	-0.198905
-0.001079	-0.502429	-47.072932	
0.25000	-0.588959	-52.430382	-0.198905
-0.001079	-0.258253	-18.360741	
0.50000	-0.588959	-36.699691	-0.198905
-0.001079	-0.031092	-18.255356	
0.75000	-0.588959	-19.972168	-0.198905
-0.001079	-0.291416	-18.714123	
1.00000	-0.588959	-7.252803	-0.198905
-0.001079	-0.581040	-47.765010	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.019520	9.370803	0.089138
0.000171	0.241597	15.930604	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3938

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.019520	28.169122	0.089138
0.000171	0.137430	64.764310	
0.50000	0.019520	52.956032	0.089138
0.000171	0.055735	84.119006	
0.75000	0.019520	76.255188	0.089138
0.000171	0.044387	65.110022	
1.00000	0.019520	100.927187	0.089138
0.000171	0.069043	16.595785	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.666277	-101.117249	-0.027865
-0.000227	-0.078910	-67.292642	
0.25000	-0.666277	-76.469921	-0.027865
-0.000227	-0.049004	-24.440109	
0.50000	-0.666277	-53.165193	-0.027865
-0.000227	-0.036734	-23.967970	
0.75000	-0.666277	-28.383678	-0.027865
-0.000227	-0.116295	-24.331613	
1.00000	-0.666277	-9.540174	-0.027865
-0.000227	-0.222450	-67.053951	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.231169	8.843370	0.153759
0.000576	0.411080	19.073187	
0.25000	0.231169	26.340266	0.153759
0.000576	0.227065	64.595739	
0.50000	0.231169	49.411160	0.153759
0.000576	0.067748	82.813729	
0.75000	0.231169	71.097297	0.153759
0.000576	0.115687	65.421466	
1.00000	0.231169	94.061235	0.153759
0.000576	0.214579	20.629148	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.653106	-94.445684	-0.086952
-0.000242	-0.226634	-63.364809	
0.25000	-0.653106	-71.504709	-0.086952
-0.000242	-0.122664	-23.578145	
0.50000	-0.653106	-49.813386	-0.086952
-0.000242	-0.036992	-23.237839	
0.75000	-0.653106	-26.747514	-0.086952
-0.000242	-0.188494	-23.675453	
1.00000	-0.653106	-9.208560	-0.086952
-0.000242	-0.375166	-63.539238	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.539579	6.684590	0.198012
0.000523	0.515259	20.972711	
0.25000	0.539579	19.067790	0.198012
0.000523	0.276252	53.215441	
0.50000	0.539579	35.400551	0.198012
0.000523	0.072362	66.265147	
0.75000	0.539579	50.751110	0.198012
0.000523	0.192104	54.388849	
1.00000	0.539579	67.006162	0.198012
0.000523	0.372063	23.326876	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.713308	-67.555034	-0.149958
-0.001002	-0.379910	-45.805016	
0.25000	-0.713308	-51.316237	-0.149958
-0.001002	-0.196513	-17.759254	
0.50000	-0.713308	-35.962006	-0.149958
-0.001002	-0.029799	-17.635646	
0.75000	-0.713308	-19.634800	-0.149958
-0.001002	-0.242428	-18.067689	
1.00000	-0.713308	-7.219830	-0.149958
-0.001002	-0.485329	-46.397596	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3939

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.501276	5.647124	0.224459
0.000766	0.577634	19.195189	
0.25000	0.501276	16.022349	0.224459
0.000766	0.394450	46.348533	
0.50000	0.501276	29.702817	0.224459
0.000766	0.068165	57.423951	
0.75000	0.501276	42.562159	0.224459
0.000766	0.240506	47.622118	
1.00000	0.501276	56.179205	0.224459
0.000766	0.472392	21.740329	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.724253	-56.719621	-0.190869
-0.000835	-0.482052	-38.852943	
0.25000	-0.724253	-43.116192	-0.190869
-0.000835	-0.247285	-15.428549	
0.50000	-0.724253	-30.253775	-0.190869
-0.000835	-0.026832	-15.394867	
0.75000	-0.724253	-16.576285	-0.190869
-0.000835	-0.275252	-15.822472	
1.00000	-0.724253	-6.176120	-0.190869
-0.000835	-0.551571	-39.628818	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.062686	0.104063	0.093850
0.000519	0.234611	2.399669	
0.25000	0.062686	0.128163	0.093850
0.000519	0.117916	2.681252	
0.50000	0.062686	0.159941	0.093850
0.000519	0.011460	2.934075	
0.75000	0.062686	0.189812	0.093850
0.000519	0.121079	3.144257	
1.00000	0.062686	0.221443	0.093850
0.000519	0.255536	3.323728	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261214	-0.339635	-0.103723
-4.48E-07	-0.260323	-0.831665	
0.25000	-0.261214	-0.308036	-0.103723
-4.48E-07	-0.131363	-0.885568	
0.50000	-0.261214	-0.278158	-0.103723
-4.48E-07	-0.002969	-0.993804	
0.75000	-0.261214	-0.246387	-0.103723
-4.48E-07	-0.115495	-1.103113	
1.00000	-0.261214	-0.222229	-0.103723
-4.48E-07	-0.232176	-1.266727	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.425743	0.572049	0.154457
0.000917	0.391452	5.749444	
0.25000	0.425743	1.295062	0.154457
0.000917	0.200555	7.943959	
0.50000	0.425743	2.248404	0.154457
0.000917	0.024507	9.052305	
0.75000	0.425743	3.144526	0.154457
0.000917	0.203752	8.736626	
1.00000	0.425743	4.093449	0.154457
0.000917	0.410559	7.388720	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.337466	-4.370212	-0.166632
-2.01E-06	-0.418531	-3.900863	
0.25000	-0.337466	-3.422238	-0.166632
-2.01E-06	-0.281522	-2.440596	
0.50000	-0.337466	-2.525902	-0.166632
-2.01E-06	-0.006520	-2.610344	
0.75000	-0.337466	-1.572767	-0.166632
-2.01E-06	-0.188367	-2.812238	
1.00000	-0.337466	-0.848017	-0.166632
-2.01E-06	-0.380186	-4.643312	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3940

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.241324	1.007060	0.201900
0.001055	0.520024	10.428099	
0.25000	0.241324	2.156650	0.201900
0.001055	0.270383	13.679562	
0.50000	0.241324	3.672465	0.201900
0.001055	0.039325	15.306656	
0.75000	0.241324	5.097298	0.201900
0.001055	0.215374	14.822823	
1.00000	0.241324	6.606085	0.201900
0.001055	0.433760	12.714746	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.573319	-7.029944	-0.176133
-0.000192	-0.442807	-5.923481	
0.25000	-0.573319	-5.522665	-0.176133
-0.000192	-0.224051	-3.553345	
0.50000	-0.573319	-4.097492	-0.176133
-0.000192	-0.009236	-3.774932	
0.75000	-0.573319	-2.582007	-0.176133
-0.000192	-0.237206	-4.047631	
1.00000	-0.573319	-1.429654	-0.176133
-0.000192	-0.487629	-6.910727	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.330041	6.528105	0.226199
0.000937	0.590719	19.266450	
0.25000	0.330041	18.783163	0.226199
0.000937	0.315406	51.330803	
0.50000	0.330041	34.942321	0.226199
0.000937	0.069410	64.330858	
0.75000	0.330041	50.131579	0.226199
0.000937	0.238926	52.558599	
1.00000	0.330041	66.215824	0.226199
0.000937	0.467816	21.730779	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.903651	-66.718412	-0.189283
-0.000607	-0.479767	-45.479799	
0.25000	-0.903651	-50.650250	-0.189283
-0.000607	-0.247429	-17.761965	
0.50000	-0.903651	-35.457360	-0.189283
-0.000607	-0.030148	-17.672882	
0.75000	-0.903651	-19.301719	-0.189283
-0.000607	-0.273301	-18.128665	
1.00000	-0.903651	-7.017203	-0.189283
-0.000607	-0.556381	-46.199058	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.848358	0.257941	0.149887
4.78E-06	0.383595	6.040501	
0.25000	0.848358	0.266099	0.149887
4.78E-06	0.197134	6.319960	
0.50000	0.848358	0.285543	0.149887
4.78E-06	0.023728	6.637421	
0.75000	0.848358	0.306720	0.149887
4.78E-06	0.170305	6.965630	
1.00000	0.848358	0.325308	0.149887
4.78E-06	0.339443	7.342590	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093551	-0.534485	-0.136177
-0.000932	-0.338029	-1.173826	
0.25000	-0.093551	-0.515883	-0.136177
-0.000932	-0.168761	-1.275318	
0.50000	-0.093551	-0.494699	-0.136177
-0.000932	-0.003950	-1.405351	
0.75000	-0.093551	-0.475260	-0.136177
-0.000932	-0.175553	-1.535440	
1.00000	-0.093551	-0.467145	-0.136177
-0.000932	-0.361909	-1.693658	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3941

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.879994	13.036073	0.255461
4.12E-05	0.662785	21.271889	
0.25000	0.879994	26.023284	0.255461
4.12E-05	0.360687	61.732296	
0.50000	0.879994	56.978882	0.255461
4.12E-05	0.086821	85.219791	
0.75000	0.879994	90.692657	0.255461
4.12E-05	0.244957	62.811734	
1.00000	0.879994	120.284113	0.255461
4.12E-05	0.450139	23.187154	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.621031	-120.537787	-0.180605
-0.001162	-0.474418	-71.723278	
0.25000	-0.621031	-90.923693	-0.180605
-0.001162	-0.249862	-26.892336	
0.50000	-0.621031	-57.199548	-0.180605
-0.001162	-0.036220	-27.038167	
0.75000	-0.621031	-26.251533	-0.180605
-0.001162	-0.319382	-27.347089	
1.00000	-0.621031	-13.333574	-0.180605
-0.001162	-0.632570	-72.621378	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.839376	9.578120	0.327264
0.000297	0.853507	21.319545	
0.25000	0.839376	18.799692	0.327264
0.000297	0.457360	50.291040	
0.50000	0.839376	40.779722	0.327264
0.000297	0.086834	67.293726	
0.75000	0.839376	64.718197	0.327264
0.000297	0.291101	51.777437	
1.00000	0.839376	85.729617	0.327264
0.000297	0.558240	24.076690	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.646990	-86.107935	-0.225653
-0.001180	-0.582433	-52.177304	
0.25000	-0.646990	-65.080440	-0.225653
-0.001180	-0.301609	-20.706922	
0.50000	-0.646990	-41.134603	-0.225653
-0.001180	-0.030122	-20.772053	
0.75000	-0.646990	-19.159956	-0.225653
-0.001180	-0.389508	-21.154205	
1.00000	-0.646990	-9.987557	-0.225653
-0.001180	-0.792730	-53.462257	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.913947	8.058234	0.374414
0.000546	0.971470	19.919244	
0.25000	0.913947	15.712286	0.374414
0.000546	0.515030	44.113411	
0.50000	0.913947	33.956061	0.374414
0.000546	0.082329	58.388268	
0.75000	0.913947	53.825376	0.374414
0.000546	0.346528	45.710739	
1.00000	0.913947	71.265190	0.374414
0.000546	0.676202	22.927829	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.639638	-71.675490	-0.273840

-0.000983 -0.700812 -43.941761
0.25000 -0.639638 -54.222335 -0.273840
-0.000983 -0.359704 -17.746132
0.50000 -0.639638 -34.346908 -0.273840
-0.000983 -0.027259 -18.057604
0.75000 -0.639638 -16.107602 -0.273840
-0.000983 -0.444168 -18.465479
1.00000 -0.639638 -8.494364 -0.273840
-0.000983 -0.906570 -45.373760
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.027418	9.159777	0.110142
0.000144	0.294264	12.812110	
0.25000	0.027418	18.263877	0.110142
0.000144	0.167532	40.975987	
0.50000	0.027418	39.963907	0.110142
0.000144	0.052016	57.260590	
0.75000	0.027418	63.597433	0.110142
0.000144	0.063799	41.494003	
1.00000	0.027418	84.341192	0.110142
0.000144	0.102223	13.649512	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.605897	-84.428750	-0.041797
-0.000208	-0.123707	-49.866876	
0.25000	-0.605897	-63.669122	-0.041797
-0.000208	-0.071776	-18.400399	
0.50000	-0.605897	-40.028327	-0.041797
-0.000208	-0.023955	-18.462141	
0.75000	-0.605897	-18.333612	-0.041797
-0.000208	-0.138242	-18.638250	
1.00000	-0.605897	-9.278058	-0.041797
-0.000208	-0.272045	-50.335421	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.214572	8.896985	0.227680
0.000474	0.600806	16.292811	
0.25000	0.214572	17.585038	0.227680
0.000474	0.328445	43.432967	
0.50000	0.214572	38.293399	0.227680
0.000474	0.067669	59.244984	
0.75000	0.214572	60.846899	0.227680
0.000474	0.170327	44.433662	
1.00000	0.214572	80.642690	0.227680
0.000474	0.320627	18.127340	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.626316	-80.872438	-0.131106
-0.000254	-0.348023	-48.533746	
0.25000	-0.626316	-61.061502	-0.131106
-0.000254	-0.184489	-18.634486	
0.50000	-0.626316	-38.531056	-0.131106
-0.000254	-0.026230	-18.822907	
0.75000	-0.626316	-17.797777	-0.131106
-0.000254	-0.270916	-19.120803	
1.00000	-0.626316	-9.156052	-0.131106
-0.000254	-0.550374	-49.499360	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.554302	6.285337	0.312363
0.000431	0.814973	18.119876	
0.25000	0.554302	11.931347	0.312363
0.000431	0.434629	35.830548	
0.50000	0.554302	25.388866	0.312363
0.000431	0.072389	46.392031	
0.75000	0.554302	40.045464	0.312363
0.000431	0.261940	37.343552	
1.00000	0.554302	52.909940	0.312363
0.000431	0.511772	20.866353	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.746558	-53.282875	-0.207707
-0.000917	-0.431752	-32.910920	
0.25000	-0.746558	-40.408557	-0.207707
-0.000917	-0.273087	-13.648741	
0.50000	-0.746558	-25.747451	-0.207707
-0.000917	-0.021914	-13.938399	
0.75000	-0.746558	-12.293229	-0.207707
-0.000917	-0.364442	-14.299789	
1.00000	-0.746558	-6.677325	-0.207707
-0.000917	-0.750278	-34.209677	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.545388	5.345013	0.373829
0.000663	0.968082	17.013901	
0.25000	0.545388	10.086732	0.373829
0.000663	0.509949	32.079567	
0.50000	0.545388	21.388831	0.373829
0.000663	0.069708	41.140603	
0.75000	0.545388	33.697959	0.373829
0.000663	0.332512	33.723536	
1.00000	0.545388	44.502000	0.373829
0.000663	0.658846	20.070585	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.781689	-44.908822	-0.267544
-0.000765	-0.680759	-28.263807	
0.25000	-0.781689	-34.096516	-0.267544
-0.000765	-0.437178	-12.178919	
0.50000	-0.781689	-21.783602	-0.267544
-0.000765	-0.020577	-12.514239	
0.75000	-0.781689	-10.484271	-0.267544
-0.000765	-0.437986	-12.909795	
1.00000	-0.781689	-5.767837	-0.267544
-0.000765	-0.900471	-29.722519	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.095933	0.136899	0.181727
0.000481	0.462006	2.693702	
0.25000	0.095933	0.145057	0.181727
0.000481	0.235977	3.008441	
0.50000	0.095933	0.164501	0.181727
0.000481	0.013555	3.315923	
0.75000	0.095933	0.185678	0.181727
0.000481	0.181278	3.601265	
1.00000	0.095933	0.204266	0.181727
0.000481	0.368038	3.877267	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.346692	-0.349159	-0.149632
-2.54E-07 -0.376245 -1.025611
0.25000 -0.346692 -0.330558 -0.149632
-2.54E-07 -0.189415 -1.145385
0.50000 -0.346692 -0.309374 -0.149632
-2.54E-07 -0.003583 -1.278074
0.75000 -0.346692 -0.289934 -0.149632
-2.54E-07 -0.215519 -1.436300
1.00000 -0.346692 -0.281820 -0.149632
-2.54E-07 -0.441342 -1.610165

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.423004	0.567999	0.294634
0.000827	0.753784	6.055377	
0.25000	0.423004	0.837206	0.294634
0.000827	0.388110	7.316634	
0.50000	0.423004	1.478874	0.294634
0.000827	0.027985	8.252287	
0.75000	0.423004	2.177715	0.294634
0.000827	0.293695	8.315358	
1.00000	0.423004	2.791106	0.294634
0.000827	0.595218	8.058458	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.431172	-3.052585	-0.242169
-1.38E-06	-0.609268	-3.200916	
0.25000	-0.431172	-2.438725	-0.242169
-1.38E-06	-0.306864	-2.520891	
0.50000	-0.431172	-1.739670	-0.242169
-1.38E-06	-0.006912	-2.784152	
0.75000	-0.431172	-1.098159	-0.242169
-1.38E-06	-0.346867	-3.061244	
1.00000	-0.431172	-0.830388	-0.242169
-1.38E-06	-0.712943	-4.229862	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.290854	0.585529	0.351451
0.000923	0.908091	9.810707	
0.25000	0.290854	0.592871	0.351451
0.000923	0.472026	10.303267	
0.50000	0.290854	0.610371	0.351451
0.000923	0.042138	10.921978	
0.75000	0.290854	0.629430	0.351451
0.000923	0.308976	11.733281	
1.00000	0.290854	0.646159	0.351451
0.000923	0.629314	12.582900	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.667585	-1.010945	-0.257000
-0.000207	-0.647948	-2.473536	
0.25000	-0.667585	-0.994204	-0.257000
-0.000207	-0.326964	-2.787695	
0.50000	-0.667585	-0.975138	-0.257000
-0.000207	-0.008657	-3.127471	
0.75000	-0.667585	-0.957643	-0.257000
-0.000207	-0.404329	-3.467517	
1.00000	-0.667585	-0.950340	-0.257000
-0.000207	-0.840605	-3.832907	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.381642	5.736332	0.382873
0.000840	0.993688	16.576379	
0.25000	0.381642	10.875743	0.382873
0.000840	0.524491	32.862365	
0.50000	0.381642	23.125760	0.382873
0.000840	0.068555	42.591528	
0.75000	0.381642	36.467267	0.382873
0.000840	0.335470	34.473960	
1.00000	0.381642	48.177453	0.382873
0.000840	0.664408	19.582750	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.939873	-48.566433	-0.270219
-0.000568	-0.689249	-30.353796	
0.25000	-0.939873	-36.847288	-0.270219
-0.000568	-0.352061	-12.900072	
0.50000	-0.939873	-23.501678	-0.270219
-0.000568	-0.021466	-13.234999	
0.75000	-0.939873	-11.254662	-0.270219
-0.000568	-0.450456	-13.635487	
1.00000	-0.939873	-6.142655	-0.270219
-0.000568	-0.923948	-31.830030	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.832259	11.260198	0.235564
0.001055	0.606152	23.465714	
0.25000	0.832259	33.722379	0.235564
0.001055	0.318461	81.928219	
0.50000	0.832259	63.339559	0.235564
0.001055	0.082289	105.286492	
0.75000	0.832259	91.179063	0.235564
0.001055	0.252539	82.856084	
1.00000	0.832259	120.658939	0.235564
0.001055	0.493172	25.316319	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.903651	-121.089347	-0.198905
-0.001303	-0.502429	-81.008193	
0.25000	-0.903651	-91.638950	-0.198905
-0.001303	-0.258253	-29.871904	
0.50000	-0.903651	-63.792787	-0.198905
-0.001303	-0.046157	-29.374805	
0.75000	-0.903651	-34.182054	-0.198905
-0.001303	-0.291416	-29.876359	
1.00000	-0.903651	-11.666482	-0.198905
-0.001303	-0.581040	-80.991122	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.913947	13.036073	0.382873
0.000923	0.993688	21.319545	
0.25000	0.913947	26.023284	0.382873
0.000923	0.524491	61.732296	
0.50000	0.913947	56.978882	0.382873
0.000923	0.086834	85.219791	
0.75000	0.913947	90.692657	0.382873
0.000923	0.346528	62.811734	
1.00000	0.913947	120.284113	0.382873
0.000923	0.676202	24.076690	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.939873	-120.537787	-0.273840
-0.001180 -0.700812 -71.723278
0.25000 -0.939873 -90.923693 -0.273840
-0.001180 -0.359704 -26.892336
0.50000 -0.939873 -57.199548 -0.273840
-0.001180 -0.036220 -27.038167
0.75000 -0.939873 -26.251533 -0.273840
-0.001180 -0.450456 -27.347089
1.00000 -0.939873 -13.333574 -0.273840
-0.001180 -0.923948 -72.621378

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.913947	13.036073	0.382873
0.001055	0.993688	23.465714	
0.25000	0.913947	33.722379	0.382873
0.001055	0.524491	81.928219	
0.50000	0.913947	63.339559	0.382873
0.001055	0.086834	105.286492	
0.75000	0.913947	91.179063	0.382873
0.001055	0.346528	82.856084	
1.00000	0.913947	120.658939	0.382873
0.001055	0.676202	25.316319	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.939873	-121.089347	-0.273840
-0.001303	-0.700812	-81.008193	
0.25000	-0.939873	-91.638950	-0.273840
-0.001303	-0.359704	-29.871904	
0.50000	-0.939873	-63.792787	-0.273840
-0.001303	-0.046157	-29.374805	
0.75000	-0.939873	-34.182054	-0.273840
-0.001303	-0.450456	-29.876359	
1.00000	-0.939873	-13.333574	-0.273840
-0.001303	-0.923948	-80.991122	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.913947	13.036073	0.382873
0.001055	0.993688	23.465714	
0.25000	0.913947	33.722379	0.382873
0.001055	0.524491	81.928219	
0.50000	0.913947	63.339559	0.382873
0.001055	0.086834	105.286492	
0.75000	0.913947	91.179063	0.382873
0.001055	0.346528	82.856084	
1.00000	0.913947	120.658939	0.382873
0.001055	0.676202	25.316319	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.939873	-121.089347	-0.273840
-0.001303	-0.700812	-81.008193	
0.25000	-0.939873	-91.638950	-0.273840
-0.001303	-0.359704	-29.871904	
0.50000	-0.939873	-63.792787	-0.273840
-0.001303	-0.046157	-29.374805	
0.75000	-0.939873	-34.182054	-0.273840
-0.001303	-0.450456	-29.876359	
1.00000	-0.939873	-13.333574	-0.273840
-0.001303	-0.923948	-80.991122	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 379 ========== LENGTH = 4.972517

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.540333	0.359312	0.102348
0.000304	0.252667	7.469391	
0.25000	0.540333	0.383404	0.102348
0.000304	0.125446	7.403082	
0.50000	0.540333	0.415180	0.102348
0.000304	0.023304	7.411627	
0.75000	0.540333	0.445054	0.102348
0.000304	0.139232	7.550274	
1.00000	0.540333	0.476672	0.102348
0.000304	0.275069	7.745130	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.036899	-0.522796	-0.110087
-0.000647	-0.272372	-1.343926	
0.25000	-0.036899	-0.491180	-0.110087
-0.000647	-0.135515	-1.398144	
0.50000	-0.036899	-0.461304	-0.110087
-0.000647	-0.004592	-1.505946	
0.75000	-0.036899	-0.429529	-0.110087
-0.000647	-0.129117	-1.615302	
1.00000	-0.036899	-0.405464	-0.110087
-0.000647	-0.256321	-1.778926	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.578631	11.464927	0.162348
0.000437	0.418729	25.154616	
0.25000	0.578631	33.918515	0.162348
0.000437	0.228456	83.221360	
0.50000	0.578631	63.533953	0.162348
0.000437	0.085143	106.320739	
0.75000	0.578631	91.376604	0.162348
0.000437	0.203311	83.612617	
1.00000	0.578631	120.844982	0.162348
0.000437	0.369043	25.569513	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.463935	-120.929858	-0.142967
-0.000822	-0.371344	-81.007636	
0.25000	-0.463935	-91.463505	-0.142967
-0.000822	-0.195543	-30.393833	
0.50000	-0.463935	-63.619405	-0.142967
-0.000822	-0.046856	-29.604591	
0.75000	-0.463935	-34.004606	-0.142967
-0.000822	-0.217051	-30.246761	
1.00000	-0.463935	-11.576777	-0.142967
-0.000822	-0.413117	-81.466849	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.534066	8.217979	0.178085
0.000655	0.465995	25.285860	
0.25000	0.534066	23.504248	0.178085
0.000655	0.253020	64.637455	
0.50000	0.534066	43.666260	0.178085
0.000655	0.084210	80.344733	
0.75000	0.534066	62.621369	0.178085
0.000655	0.223093	65.090868	
1.00000	0.534066	82.683264	0.178085
0.000655	0.421755	25.934535	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.434838	-82.802859	-0.166327
-0.001005	-0.425413	-56.619704	
0.25000	-0.434838	-62.742343	-0.166327
-0.001005	-0.219920	-22.290128	
0.50000	-0.434838	-43.786246	-0.166327
-0.001005	-0.037217	-21.880982	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.637732	6.916790	0.201808
0.000719	0.521694	23.682063	
0.25000	0.637732	19.601140	0.201808
0.000719	0.277785	56.316882	
0.50000	0.637732	36.331321	0.201808
0.000719	0.080172	69.371916	
0.75000	0.637732	52.060028	0.201808
0.000719	0.254854	56.781650	
1.00000	0.637732	68.707133	0.201808
0.000719	0.491333	24.410261	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.451127	-68.845287	-0.195636
-0.000870	-0.498147	-47.755280	
0.25000	-0.451127	-52.199327	-0.195636
-0.000870	-0.255988	-19.337922	
0.50000	-0.451127	-36.469800	-0.195636
-0.000870	-0.033654	-19.067306	
0.75000	-0.451127	-19.739981	-0.195636
-0.000870	-0.252489	-19.605314	
1.00000	-0.451127	-7.070183	-0.195636
-0.000870	-0.496432	-48.715506	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.011621	9.452427	0.058353
0.000188	0.166233	16.580153	
0.25000	0.011621	28.244057	0.058353
0.000188	0.103668	65.237012	
0.50000	0.011621	53.029509	0.058353
0.000188	0.057416	84.574641	
0.75000	0.011621	76.331299	0.058353
0.000188	0.053944	65.483001	
1.00000	0.011621	100.993676	0.058353
0.000188	0.078385	16.779240	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.497226	-101.040455	-0.027734
-0.000227	-0.084194	-67.057803	
0.25000	-0.497226	-76.379743	-0.027734
-0.000227	-0.051337	-24.635025	
0.50000	-0.497226	-53.076741	-0.027734
-0.000227	-0.036548	-23.910953	
0.75000	-0.497226	-28.291823	-0.027734
-0.000227	-0.077612	-24.386843	
1.00000	-0.497226	-9.521752	-0.027734
-0.000227	-0.145043	-67.187892	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.176123	8.999889	0.105106
0.000447	0.290110	20.602778	
0.25000	0.176123	26.490560	0.105106
0.000447	0.169046	65.781909	
0.50000	0.176123	49.560096	0.105106
0.000447	0.071266	83.782608	
0.75000	0.176123	71.248484	0.105106
0.000447	0.119590	66.162709	
1.00000	0.176123	94.203666	0.105106
0.000447	0.213680	21.094886	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.492085	-94.302063	-0.083131
-0.000405	-0.222725	-63.529960	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.492085	-71.348660	-0.083131
-0.000405	-0.120829	-24.142183	
0.50000	-0.492085	-49.658942	-0.083131
-0.000405	-0.038047	-23.566277	
0.75000	-0.492085	-26.589903	-0.083131
-0.000405	-0.131264	-24.105398	
1.00000	-0.492085	-9.119299	-0.083131
-0.000405	-0.252656	-64.043199	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.435076	6.928855	0.158997
0.000684	0.417473	23.293629	
0.25000	0.435076	19.309648	0.158997
0.000684	0.226765	55.026741	
0.50000	0.435076	35.639448	0.158997
0.000684	0.077138	67.714995	
0.75000	0.435076	50.991742	0.158997
0.000684	0.196474	55.451502	
1.00000	0.435076	67.240455	0.158997
0.000684	0.374286	23.968257	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.540666	-67.364935	-0.148288
-0.000887	-0.379400	-46.392464	
0.25000	-0.540666	-51.117340	-0.148288
-0.000887	-0.196032	-18.835134	
0.50000	-0.540666	-35.764247	-0.148288
-0.000887	-0.032074	-18.350883	
0.75000	-0.540666	-19.434799	-0.148288
-0.000887	-0.197194	-18.855905	
1.00000	-0.540666	-7.068210	-0.148288
-0.000887	-0.387668	-47.249331	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.402800	5.845431	0.190138
0.000712	0.492182	21.703050	
0.25000	0.402800	16.216965	0.190138
0.000712	0.261634	48.338563	
0.50000	0.402800	29.896628	0.190138
0.000712	0.073749	59.013232	
0.75000	0.402800	42.757423	0.190138
0.000712	0.238538	48.779245	
1.00000	0.402800	56.369158	0.190138
0.000712	0.463529	22.436691	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.574966	-56.500292	-0.185381

```
-0.000733   -0.471959   -39.609701
0.25000     -0.574966   -42.889493      -0.185381
-0.000733   -0.242327   -16.424083
0.50000     -0.574966   -30.028028      -0.185381
-0.000733   -0.029540   -16.252982
0.75000     -0.574966   -16.348660      -0.185381
-0.000733   -0.235433   -16.743064
1.00000     -0.574966   -5.989025       -0.185381
-0.000733   -0.465456   -40.595587

COMB DB-G3-1 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.056529    0.102348    0.091299
0.000200    0.228283    3.308338
0.25000     0.056529    0.126440    0.091299
0.000200    0.114774    3.433199
0.50000     0.056529    0.158216    0.091299
0.000200    0.013984    3.527944
0.75000     0.056529    0.188090    0.091299
0.000200    0.117921    3.580784
1.00000     0.056529    0.219709    0.091299
0.000200    0.239025    3.606629
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD            >
                                3949

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.235960   -0.245212   -0.097425
-5.94E-06   -0.245453   -1.242963
0.25000     -0.235960   -0.213596   -0.097425
-5.94E-06   -0.124324   -1.292819
0.50000     -0.235960   -0.183720   -0.097425
-5.94E-06   -0.004203   -1.396135
0.75000     -0.235960   -0.151944   -0.097425
-5.94E-06   -0.112217   -1.500986
1.00000     -0.235960   -0.127880   -0.097425
-5.94E-06   -0.225731   -1.660106

COMB DB-G3-2 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.337517    0.616962    0.147305
0.000436    0.368821    7.364640
0.25000     0.337517    1.339717    0.147305
0.000436    0.186038    9.232607
0.50000     0.337517    2.293003    0.147305
0.000436    0.028618    10.053825
0.75000     0.337517    3.186226    0.147305
0.000436    0.190437    9.486212
1.00000     0.337517    4.137779    0.147305
0.000436    0.384778    7.905440

COMB DB-G3-2 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.328063   -4.210552   -0.156636
-0.000110   -0.395126   -4.606601
0.25000     -0.328063   -3.262064   -0.156636
-0.000110   -0.200423   -3.156309
0.50000     -0.328063   -2.365795   -0.156636
-0.000110   0.008693    -3.309813
0.75000     -0.328063   -1.412529   -0.156636
-0.000110   -0.181480   -3.509392
1.00000     -0.328063   -0.690603   -0.156636
-0.000110   -0.364440   -5.337016

COMB DB-G3-3 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.193435    1.126854    0.163705
0.000613    0.425064    12.679209
0.25000     0.193435    2.276035    0.163705
0.000613    0.222818    15.509381
0.50000     0.193435    3.791760    0.163705
0.000613    0.044826    16.735218
0.75000     0.193435    5.216754    0.163705
0.000613    0.200992    15.874622
1.00000     0.193435    6.724954    0.163705
0.000613    0.405802    13.403179

COMB DB-G3-3 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.469259   -6.833201   -0.165197
-0.000372   -0.672387   -6.873384
0.25000     -0.469259   -5.325106   -0.165197
-0.000372   -0.211940   -4.523712
0.50000     -0.469259   -3.900038   -0.165197
-0.000372   -0.012214   -4.725076
0.75000     -0.469259   -2.384345   -0.165197
-0.000372   -0.192016   -4.999700
1.00000     -0.469259   -1.236483   -0.165197
-0.000372   -0.391367   -7.862915

COMB DB-G3-4 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.277834    6.698430    0.189618
0.000695    0.492765    21.691721
0.25000     0.277834    18.949127   0.189618
0.000695    0.263801    53.258251
0.50000     0.277834    35.107335   0.189618
0.000695    0.075123    65.884624
0.75000     0.277834    50.298310   0.189618
0.000695    0.235518    53.720717
1.00000     0.277834    66.376282   0.189618
0.000695    0.455416    22.436002
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD            >
                                3950

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.720341   -66.497021  -0.182090
-0.000597   -0.466255   -46.173666
0.25000     -0.720341   -50.420154  -0.182090
-0.000597   -0.240676   -18.734521
0.50000     -0.720341   -35.228389  -0.182090
-0.000597   -0.032681   -18.479729
0.75000     -0.720341   -19.070529  -0.182090
-0.000597   -0.235293   -19.005916
1.00000     -0.720341   -6.833886   -0.182090
-0.000597   -0.464286   -47.127460

COMB DL-G1-1 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.646253    0.368195    0.130352
0.000265    0.330706    7.362117
0.25000     0.646253    0.376344    0.130352
0.000265    0.169210    7.425498
0.50000     0.646253    0.395786    0.130352
0.000265    0.026316    7.520319
0.75000     0.646253    0.416966    0.130352
0.000265    0.184880    7.650322
1.00000     0.646253    0.435558    0.130352
0.000265    0.360229    7.785881

COMB DL-G1-1 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.050992   -0.434870   -0.141905
-0.000544   -0.347406   -1.718017
0.25000     -0.050992   -0.416276   -0.141905
-0.000544   -0.171772   -1.830359
0.50000     -0.050992   -0.395093   -0.141905
-0.000544   -0.005754   -1.970092
0.75000     -0.050992   -0.375653   -0.141905
-0.000544   -0.158439   -2.109991
1.00000     -0.050992   -0.367509   -0.141905
-0.000544   -0.320218   -2.277969

COMB DL-G1-2 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.669148    13.243770   0.208981
0.000345    0.545887    23.204350
0.25000     0.669148    26.217079   0.208981
0.000345    0.300236    63.518993
0.50000     0.669148    57.169365   0.208981
0.000345    0.090951    86.593584
0.75000     0.669148    90.887850   0.208981
0.000345    0.268792    63.876569
1.00000     0.669148    120.485591  0.208981
0.000345    0.485567    23.998227

COMB DL-G1-2 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.462648   -120.516128 -0.189357
-0.000653   -0.489942   -72.658888
0.25000     -0.462648   -90.913923  -0.189357
-0.000653   -0.255530   -28.107374
0.50000     -0.462648   -57.191821  -0.189357
-0.000653   -0.038283   -27.826304
0.75000     -0.462648   -26.242016  -0.189357
-0.000653   -0.272125   -28.104494
1.00000     -0.462648   -13.276804  -0.189357
-0.000653   -0.525592   -73.426310

COMB DL-G1-3 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.639822    9.819370    0.247887
0.000532    0.658221    24.067191
0.25000     0.639822    19.031071   0.247887
0.000532    0.358808    52.719916
0.50000     0.639822    41.008750   0.247887
0.000532    0.092917    69.200821
0.75000     0.639822    64.950568   0.247887
0.000532    0.299306    53.246558
1.00000     0.639822    85.956622   0.247887
0.000532    0.562476    25.183784
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD            >
                                3951

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.480357   -85.994962  -0.223262
-0.000808   -0.572077   -53.477741
0.25000     -0.480357   -64.975909  -0.223262
-0.000808   -0.295365   -22.009548
0.50000     -0.480357   -41.031522  -0.223262
-0.000808   -0.033607   -21.973852
0.75000     -0.480357   -19.055605  -0.223262
-0.000808   -0.301731   -22.335969
1.00000     -0.480357   -9.849653   -0.223262
-0.000808   -0.602260   -54.681142

COMB DL-G1-4 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.709848    8.269204    0.289460
0.000579    0.760473    22.896727
0.25000     0.709848    15.915063   0.289460
0.000579    0.409685    46.725666
0.50000     0.709848    34.156886   0.289460
0.000579    0.089001    60.456328
0.75000     0.709848    54.028977   0.289460
0.000579    0.346579    47.298677
1.00000     0.709848    71.472495   0.289460
0.000579    0.665917    24.115725

COMB DL-G1-4 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.503480   -71.510992  -0.266449
-0.000702   -0.679045   -45.364951
0.25000     -0.503480   -54.064843  -0.266449
-0.000702   -0.348382   -19.334297
0.50000     -0.503480   -34.190621  -0.266449
-0.000702   -0.031232   -19.393129
0.75000     -0.503480   -15.950260  -0.266449
-0.000702   -0.347067   -19.782195
1.00000     -0.503480   -8.309170   -0.266449
-0.000702   -0.700212   -46.717666

COMB DL-G2-1 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.016854    9.253954    0.073263
0.000153    0.204832    13.635369
0.25000     0.016854    18.348308   0.073263
0.000153    0.123221    41.791131
0.50000     0.016854    40.046017   0.073263
0.000153    0.054300    57.878191
0.75000     0.016854    63.682844   0.073263
0.000153    0.063950    41.983978
1.00000     0.016854    84.431009   0.073263
0.000153    0.101314    14.049218

COMB DL-G2-1 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.476382   -84.455772  -0.039711
-0.000188   -0.118182   -50.337949
0.25000     -0.476382   -63.704477  -0.039711
-0.000188   -0.068677   -19.059349
0.50000     -0.476382   -40.065115  -0.039711
-0.000188   -0.024775   -18.822556
0.75000     -0.476382   -18.369146  -0.039711
-0.000188   -0.093206   -18.963172
1.00000     -0.476382   -9.280467   -0.039711
-0.000188   -0.180996   -50.686036

COMB DL-G2-2 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.168720    9.042706    0.155997
0.000368    0.426384    18.086136
0.25000     0.168720    17.721459   0.155997
0.000368    0.241848    45.049344
0.50000     0.168720    38.427605   0.155997
0.000368    0.071942    60.524567
0.75000     0.168720    60.984255   0.155997
0.000368    0.159799    45.430031
1.00000     0.168720    80.784251   0.155997
0.000368    0.296468    18.907171
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD            >
                                3952

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.494178   -80.820482  -0.120395
-0.000345   -0.321773   -49.478928
0.25000     -0.494178   -61.017499  -0.120395
-0.000345   -0.172343   -19.759226
0.50000     -0.494178   -38.458430  -0.120395
-0.000345   -0.028540   -19.653837
0.75000     -0.494178   -17.753943  -0.120395
-0.000345   -0.184361   -19.923221
1.00000     -0.494178   -9.080607   -0.120395
-0.000345   -0.371084   -50.325646

COMB DL-G2-3 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.437972    6.491949    0.230933
0.000568    0.614939    20.835837
0.25000     0.437972    12.131916   0.230933
0.000568    0.334668    38.207636
0.50000     0.437972    25.587995   0.230933
0.000568    0.078400    48.253102
0.75000     0.437972    40.246640   0.230933
0.000568    0.256834    38.768460
1.00000     0.437972    53.113849   0.230933
0.000568    0.493674    21.943642

COMB DL-G2-3 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.578035   -53.139894  -0.198778
-0.000736   -0.509010   -34.205314
0.25000     -0.578035   -40.270744  -0.198778
-0.000736   -0.262241   -15.066285
0.50000     -0.578035   -25.610527  -0.198778
-0.000736   -0.025552   -15.173004
0.75000     -0.578035   -12.155526  -0.198778
-0.000736   -0.269018   -15.522557
1.00000     -0.578035   -6.519080   -0.198778
-0.000736   -0.548677   -35.453786

COMB DL-G2-4 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.438072    5.519715    0.285597
0.000592    0.752197    20.019132
0.25000     0.438072    10.256358   0.285597
0.000592    0.402686    34.695945
0.50000     0.438072    21.557248   0.285597
0.000592    0.076828    43.215074
0.75000     0.438072    33.868095   0.285597
0.000592    0.319546    35.318750
1.00000     0.438072    44.674431   0.285597
0.000592    0.626012    21.261057

COMB DL-G2-4 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.634014   -44.708994  -0.253287
-0.000606   -0.645698   -29.694544
0.25000     -0.634014   -33.901028  -0.253287
-0.000606   -0.330509   -13.709655
0.50000     -0.634014   -21.588860  -0.253287
-0.000606   -0.024762   -13.887816
0.75000     -0.634014   -10.288676  -0.253287
-0.000606   -0.332411   -14.270081
1.00000     -0.634014   -5.555189   -0.253287
-0.000606   -0.680810   -31.097280

COMB DL-G3-1 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.088646    0.137159    0.150676
0.000175    0.387004    3.835006
0.25000     0.088646    0.145308    0.150676
0.000175    0.199831    3.987290
0.50000     0.088646    0.164750    0.150676
0.000175    0.011562    4.130267
0.75000     0.088646    0.185930    0.150676
0.000175    0.166085    4.246535
1.00000     0.088646    0.204522    0.150676
0.000175    0.339190    4.356309
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD            >
                                3953

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.316759   -0.218806   -0.138570
-5.28E-06   -0.350501   -1.571242
0.25000     -0.316759   -0.200212   -0.138570
-5.28E-06   -0.177383   -1.683187
0.50000     -0.316759   -0.179030   -0.138570
-5.28E-06   -0.005172   -1.822772
0.75000     -0.316759   -0.159589   -0.138570
-5.28E-06   -0.174558   -1.962680
1.00000     -0.316759   -0.151445   -0.138570
-5.28E-06   -0.361922   -2.130916

COMB DL-G3-2 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.354957    0.598511    0.239468
0.000369    0.617679    7.990802
0.25000     0.354957    0.867440    0.239468
0.000369    0.320432    8.980283
0.50000     0.354957    1.509039    0.239468
0.000369    0.033501    9.628778
0.75000     0.354957    2.207978    0.239468
0.000369    0.277742    9.388673
1.00000     0.354957    2.821499    0.239468
0.000369    0.552356    8.841140

COMB DL-G3-2 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.410127   -2.851284   -0.225387
-0.000111   -0.569463   -4.168366
0.25000     -0.410127   -2.237671   -0.225387
-0.000111   -0.288238   -3.510971
0.50000     -0.410127   -1.538657   -0.225387
-0.000111   -0.010764   -3.749018
0.75000     -0.410127   -0.897910   -0.225387
-0.000111   -0.276633   -3.998725
1.00000     -0.410127   -0.628359   -0.225387
-0.000111   -0.574006   -5.182125

COMB DL-G3-3 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.244792    0.676627    0.263748
0.000523    0.694534    12.501848
0.25000     0.244792    0.683962    0.263748
0.000523    0.367456    12.594860
0.50000     0.244792    0.701460    0.263748
0.000523    0.049163    12.788713
0.75000     0.244792    0.720522    0.263748
0.000523    0.276949    13.181189
1.00000     0.244792    0.737254    0.263748
0.000523    0.566383    13.661445

COMB DL-G3-3 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.570289   -0.766717   -0.232922
-0.000326   -0.591079   -3.768033
0.25000     -0.570289   -0.749982   -0.232922
-0.000326   -0.300604   -4.077161
0.50000     -0.570289   -0.730918   -0.232922
-0.000326   -0.012564   -4.410652
0.75000     -0.570289   -0.713422   -0.232922
-0.000326   -0.292019   -4.744771
1.00000     -0.570289   -0.706092   -0.232922
-0.000326   -0.617743   -5.104528

COMB DL-G3-4 ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.318799    5.885636    0.293234
0.000580    0.771822    19.517418
0.25000     0.318799    11.019546   0.293234
0.000580    0.413375    35.432411
0.50000     0.318799    23.268252   0.293234
0.000580    0.076017    44.644351
0.75000     0.318799    36.611622   0.293234
0.000580    0.315716    36.065466
1.00000     0.318799    48.324296   0.293234
0.000580    0.622635    20.781710
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD            >
                                3954

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.773773   -48.361192  -0.253050
-0.000503   -0.647818   -31.788708
0.25000     -0.773773   -36.646751  -0.253050
-0.000503   -0.332643   -14.430822
0.50000     -0.773773   -23.301950  -0.253050
-0.000503   -0.025440   -14.592048
0.75000     -0.773773   -11.054226  -0.253050
-0.000503   -0.339130   -14.974030
1.00000     -0.773773   -5.923520   -0.253050
-0.000503   -0.698584   -33.181824

COMB    DB ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.637732    11.464927   0.201808
0.000719    0.521694    25.285860
0.25000     0.637732    33.918515   0.201808
0.000719    0.277785    83.221360
0.50000     0.637732    63.533953   0.201808
0.000719    0.085143    106.320739
0.75000     0.637732    91.376604   0.201808
0.000719    0.254854    83.612617
1.00000     0.637732    120.844982  0.201808
0.000719    0.491333    25.934535

COMB    DB ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.720342   -120.929858 -0.195636
-0.001005   -0.498147   -81.007836
0.25000     -0.720341   -91.463505  -0.195636
-0.001005   -0.255988   -30.393833
0.50000     -0.720341   -63.619405  -0.195636
-0.001005   -0.046856   -29.604591
0.75000     -0.720341   -34.004606  -0.195636
-0.001005   -0.252489   -30.246761
1.00000     -0.720341   -11.576777  -0.195636
-0.001005   -0.496432   -81.466849

COMB    DL ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.709848    13.243770   0.293234
0.000592    0.771822    24.067191
0.25000     0.709848    26.217079   0.293234
0.000592    0.413375    63.518993
0.50000     0.709848    57.169365   0.293234
0.000592    0.092917    86.593584
0.75000     0.709848    90.887850   0.293234
0.000592    0.346579    63.876569
1.00000     0.709848    120.485591  0.293234
0.000592    0.665917    25.183784

COMB    DL ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.773773   -120.516128 -0.266449
-0.000808   -0.679045   -72.658888
0.25000     -0.773773   -90.913923  -0.266449
-0.000808   -0.348382   -28.107374
0.50000     -0.773773   -57.191821  -0.266449
-0.000808   -0.038283   -27.826304
0.75000     -0.773773   -26.242016  -0.266449
-0.000808   -0.347067   -28.104494
1.00000     -0.773773   -13.276804  -0.266449
-0.000808   -0.700212   -73.426310

COMB    CAR ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.709848    13.243770   0.293234
0.000719    0.771822    25.285860
0.25000     0.709848    33.918515   0.293234
0.000719    0.413375    83.221360
0.50000     0.709848    63.533953   0.293234
0.000719    0.092917    106.320739
0.75000     0.709848    91.376604   0.293234
0.000719    0.346579    83.612617
1.00000     0.709848    120.844982  0.293234
0.000719    0.665917    25.934535
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD            >
                                3955

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB    CAR ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.773773   -120.929858 -0.266449
-0.001005   -0.679045   -81.007836
0.25000     -0.773773   -91.463505  -0.266449
-0.001005   -0.348382   -30.393833
0.50000     -0.773773   -63.619405  -0.266449
-0.001005   -0.046856   -29.604591
0.75000     -0.773773   -34.004606  -0.266449
-0.001005   -0.347067   -30.246761
1.00000     -0.773773   -13.276804  -0.266449
-0.001005   -0.700212   -81.466849

COMB    DESIGN ------------------- MAX

REL DIST        P           V2          V3
        T       M2          M3
0.00000     0.709848    13.243770   0.293234
0.000719    0.771822    25.285860
0.25000     0.709848    33.918515   0.293234
0.000719    0.413375    83.221360
0.50000     0.709848    63.533953   0.293234
0.000719    0.092917    106.320739
0.75000     0.709848    91.376604   0.293234
0.000719    0.346579    83.612617
1.00000     0.709848    120.844982  0.293234
0.000719    0.665917    25.934535

COMB    DESIGN ------------------- MIN

REL DIST        P           V2          V3
        T       M2          M3
0.00000     -0.773773   -120.929858 -0.266449
-0.001005   -0.679045   -81.007836
0.25000     -0.773773   -91.463505  -0.266449
-0.001005   -0.348382   -30.393833
0.50000     -0.773773   -63.619405  -0.266449
-0.001005   -0.046856   -29.604591
0.75000     -0.773773   -34.004606  -0.266449
-0.001005   -0.347067   -30.246761
1.00000     -0.773773   -13.276804  -0.266449
-0.001005   -0.700212   -81.466849
```

ELEM 380 ========== LENGTH = 4.972947

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.355120	0.491100	0.107569
0.000631	0.264649	7.747567	
0.25000	0.355120	0.515200	0.107569
0.000631	0.139911	7.459968	
0.50000	0.355120	0.546976	0.107569
0.000631	0.022668	7.235160	
0.75000	0.355120	0.576850	0.107569
0.000631	0.143373	7.143470	
1.00000	0.355120	0.608485	0.107569
0.000631	0.284576	7.130971	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.011998	-0.422243	-0.113665
-0.000352	-0.280796	-1.790140	
0.25000	-0.011998	-0.390620	-0.113665
-0.000352	-0.139527	-1.853033	
0.50000	-0.011998	-0.360745	-0.113665
-0.000352	-0.006060	-1.970022	
0.75000	-0.011998	-0.328969	-0.113665
-0.000352	-0.136656	-2.088370	
1.00000	-0.011998	-0.304890	-0.113665
-0.000352	-0.270333	-2.260732	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.390622	11.673197	0.151757
0.000808	0.387204	25.571254	
0.25000	0.390622	34.134811	0.151757
0.000808	0.211015	83.441665	
0.50000	0.390622	63.750225	0.151757
0.000808	0.084184	105.985487	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3956
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.390622	91.592532	0.151757
0.000808	0.227079	82.876688	
1.00000	0.390622	121.076051	0.151757
0.000808	0.414737	24.595993	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.295080	-120.747803	-0.160178
-0.000460	-0.400767	-81.480591	
0.25000	-0.295080	-91.274887	-0.160178
-0.000460	-0.210105	-30.661065	
0.50000	-0.295080	-63.431588	-0.160178
-0.000460	-0.048985	-30.257983	
0.75000	-0.295080	-33.816442	-0.160178
-0.000460	-0.010737	-31.121482	
1.00000	-0.295080	-11.374937	-0.160178
-0.000460	-0.396618	-82.326225	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.359609	8.492212	0.165792
0.000968	0.418877	25.932545	
0.25000	0.359609	23.783944	0.165792
0.000968	0.221231	64.908387	
0.50000	0.359609	43.945940	0.165792
0.000968	0.083243	79.986684	
0.75000	0.359609	62.900815	0.165792
0.000968	0.233981	64.226133	
1.00000	0.359609	82.973018	0.165792
0.000968	0.444665	24.669772	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.280583	-82.565286	-0.175212
-0.000709	-0.438639	-57.450910	
0.25000	-0.280583	-62.500302	-0.175212
-0.000709	-0.226581	-22.981671	
0.50000	-0.280583	-43.544751	-0.175212
-0.000709	-0.040495	-22.836046	
0.75000	-0.280583	-23.382938	-0.175212
-0.000709	-0.221208	-23.552499	
1.00000	-0.280583	-8.104896	-0.175212
-0.000709	-0.425431	-58.540970	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.427524	7.193029	0.189430
0.000838	0.477540	24.405412	
0.25000	0.427524	19.881913	0.189430
0.000838	0.249063	56.621056	
0.50000	0.427524	36.612080	0.189430
0.000838	0.079278	69.048197	
0.75000	0.427524	52.340593	0.189430
0.000838	0.257453	55.953487	
1.00000	0.427524	68.996251	0.189430
0.000838	0.497792	23.157846	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.316370	-68.596141	-0.198097
-0.000758	-0.497312	-48.709290	
0.25000	-0.316370	-51.946473	-0.198097
-0.000758	-0.255827	-20.170295	
0.50000	-0.316370	-36.217399	-0.198097
-0.000758	-0.037374	-20.112263	
0.75000	-0.316370	-19.487384	-0.198097
-0.000758	-0.246997	-20.769740	
1.00000	-0.316370	-6.809860	-0.198097
-0.000758	-0.480937	-49.865699	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.006688	9.542390	0.034504
0.000198	0.097081	16.777026	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3957
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.006688	28.340736	0.034504
0.000198	0.064987	65.409304	
0.50000	0.006688	53.126169	0.034504
0.000198	0.057073	84.431173	
0.75000	0.006688	76.427670	0.034504
0.000198	0.068881	65.141015	
1.00000	0.006688	101.102718	0.034504
0.000198	0.102358	16.365412	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.330967	-100.947813	-0.037082
-0.000200	-0.096699	-67.187400	
0.25000	-0.330967	-76.281638	-0.037082
-0.000200	-0.057774	-24.584021	
0.50000	-0.330967	-52.979307	-0.037082
-0.000200	-0.037504	-24.174662	
0.75000	-0.330967	-28.194099	-0.037082
-0.000200	-0.058186	-24.825316	
1.00000	-0.330967	-9.412581	-0.037082
-0.000200	-0.098797	-67.607055	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.114837	9.177082	0.083243
0.000373	0.218642	21.089642	
0.25000	0.114837	26.674004	0.083243
0.000373	0.124866	66.058688	
0.50000	0.114837	49.743522	0.083243
0.000373	0.070829	83.576656	
0.75000	0.114837	71.431843	0.083243
0.000373	0.123509	65.616372	
1.00000	0.114837	94.398619	0.083243
0.000373	0.223444	20.319155	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.343060	-94.132592	-0.086947
-0.000492	-0.222733	-64.032780	
0.25000	-0.343060	-71.174075	-0.086947
-0.000492	-0.121237	-24.722333	
0.50000	-0.343060	-49.484982	-0.086947
-0.000492	-0.040345	-24.184783	
0.75000	-0.343060	-26.415674	-0.086947
-0.000492	-0.116604	-24.883859	
1.00000	-0.343060	-8.934415	-0.086947
-0.000492	-0.217967	-64.797253	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.304560	7.194895	0.145576
0.000848	0.368081	23.963474	
0.25000	0.304560	19.580114	0.145576
0.000848	0.194004	55.301781	
0.50000	0.304560	35.909901	0.145576
0.000848	0.076325	67.397681	
0.75000	0.304560	51.262005	0.145576
0.000848	0.201679	54.670569	
1.00000	0.304560	67.519966	0.145576
0.000848	0.385736	22.779598	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.375738	-67.129264	-0.152680
-0.000741	-0.383369	-47.247120	
0.25000	-0.375738	-50.878050	-0.152680
-0.000741	-0.198215	-19.373508	
0.50000	-0.375738	-35.525399	-0.152680
-0.000741	-0.035405	-19.299264	
0.75000	-0.375738	-19.195769	-0.152680
-0.000741	-0.192476	-19.923405	
1.00000	-0.375738	-6.821629	-0.152680
-0.000741	-0.371958	-48.305449	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3958
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.280559	6.094691	0.176980
0.000701	0.446275	22.428960	
0.25000	0.280559	16.469932	0.176980
0.000701	0.232047	48.651619	
0.50000	0.280559	30.149584	0.176980
0.000701	0.073070	58.747698	
0.75000	0.280559	43.010220	0.176980
0.000701	0.235668	48.039965	
1.00000	0.280559	56.628949	0.176980
0.000701	0.459099	21.273070	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.419733	-56.256736	-0.183608
-0.000727	-0.462242	-40.580874	
0.25000	-0.419733	-42.642905	-0.183608
-0.000727	-0.237868	-17.291099	
0.50000	-0.419733	-29.781810	-0.183608
-0.000727	-0.033355	-17.289176	
0.75000	-0.419733	-16.102282	-0.183608
-0.000727	-0.228493	-17.872300	
1.00000	-0.419733	-5.736329	-0.183608
-0.000727	-0.447343	-41.708541	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.051972	0.121604	0.087952
5.59E-06	0.220415	3.600157	
0.25000	0.051972	0.145704	0.087952
5.59E-06	0.111060	3.583385	
0.50000	0.051972	0.177481	0.087952
5.59E-06	0.014027	3.539209	
0.75000	0.051972	0.207354	0.087952
5.59E-06	0.106579	3.452868	
1.00000	0.051972	0.238989	0.087952
5.59E-06	0.217146	3.339599	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192299	-0.174050	-0.088928
-0.000160	-0.225108	-1.639387	
0.25000	-0.192299	-0.142427	-0.088928
-0.000160	-0.114605	-1.678343	
0.50000	-0.192299	-0.112552	-0.088928
-0.000160	-0.005793	-1.777693	
0.75000	-0.192299	-0.080776	-0.088928
-0.000160	-0.107649	-1.865803	
1.00000	-0.192299	-0.056697	-0.088928
-0.000160	-0.216997	-2.014227	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.239497	0.705599	0.141486
0.000112	0.354997	7.896389	
0.25000	0.239497	1.428612	0.141486
0.000112	0.179496	9.465413	
0.50000	0.239497	2.381898	0.141486
0.000112	0.028628	10.008391	
0.75000	0.239497	3.278109	0.141486
0.000112	0.173094	9.201176	
1.00000	0.239497	4.227150	0.141486
0.000112	0.351316	7.368946	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.281955	-4.073597	-0.143641
-0.000400	-0.363664	-5.305449	
0.25000	-0.281955	-3.124898	-0.143641
-0.000400	-0.185349	-3.831939	
0.50000	-0.281955	-2.228654	-0.143641
-0.000400	-0.011418	-3.981277	
0.75000	-0.281955	-1.275377	-0.143641
-0.000400	-0.173685	-4.171384	
1.00000	-0.281955	-0.553011	-0.143641
-0.000400	-0.349536	-5.981918	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3959
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.141160	1.294744	0.148859
0.000343	0.374059	13.391561	
0.25000	0.141160	2.444335	0.148859
0.000343	0.189612	15.817274	
0.50000	0.141160	3.960660	0.148859
0.000343	0.044678	16.620053	
0.75000	0.141160	5.385036	0.148859
0.000343	0.182442	15.378755	
1.00000	0.141160	6.894010	0.148859
0.000343	0.369792	12.520374	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.360498	-6.634054	-0.151164
-0.000618	-0.383052	-7.831577	
0.25000	-0.360498	-5.125623	-0.151164
-0.000618	-0.119549	-5.457191	
0.50000	-0.360498	-3.700596	-0.151164
-0.000618	-0.015908	-5.663132	
0.75000	-0.360498	-2.184885	-0.151164
-0.000618	-0.182787	-5.933896	
1.00000	-0.360498	-1.036323	-0.151164
-0.000618	-0.367712	-8.781139	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.207713	6.912525	0.173246
0.000565	0.439204	22.426199	
0.25000	0.207713	19.167601	0.173246
0.000565	0.230617	53.608277	
0.50000	0.207713	35.325797	0.173246
0.000565	0.074637	65.662628	
0.75000	0.207713	50.516583	0.173246
0.000565	0.230421	53.031346	
1.00000	0.207713	66.402817	0.173246
0.000565	0.447026	21.354579	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.522662	-66.261168	-0.178843
-0.000684	-0.452025	-47.105697	
0.25000	-0.522662	-50.180719	-0.178843
-0.000684	-0.234294	-19.539917	
0.50000	-0.522662	-34.989392	-0.178843
-0.000684	-0.036470	-19.481393	
0.75000	-0.522662	-18.831343	-0.178843
-0.000684	-0.224472	-20.113915	
1.00000	-0.522662	-6.587238	-0.178843
-0.000684	-0.438401	-48.212664	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.458588	0.501948	0.132709
0.000521	0.323384	7.818049	
0.25000	0.458588	0.510101	0.132709
0.000521	0.159329	7.668414	
0.50000	0.458588	0.529545	0.132709
0.000521	0.025971	7.526663	
0.75000	0.458588	0.550726	0.132709
0.000521	0.225698	7.422947	
1.00000	0.458588	0.569319	0.132709
0.000521	0.433629	7.341756	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.016908	-0.335410	-0.167346
-0.000287	-0.398665	-2.306760	
0.25000	-0.016908	-0.316818	-0.167346
-0.000287	-0.192355	-2.428987	
0.50000	-0.016908	-0.295636	-0.167346
-0.000287	-0.007747	-2.579198	
0.75000	-0.016908	-0.276196	-0.167346
-0.000287	-0.171944	-2.729705	
1.00000	-0.016908	-0.268049	-0.167346
-0.000287	-0.337634	-2.908536	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3960
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.468353	13.484457	0.195274
0.000640	0.488492	24.035220	
0.25000	0.468353	26.463564	0.195274
0.000640	0.262752	63.954947	
0.50000	0.468353	57.419279	0.195274
0.000640	0.090819	86.673279	
0.75000	0.468353	91.139391	0.195274
0.000640	0.336333	63.597392	
1.00000	0.468353	120.739368	0.195274
0.000640	0.605673	23.371587	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.313234	-120.332577	-0.228773
-0.000364	-0.567880	-73.462339	
0.25000	-0.313234	-90.733544	-0.228773
-0.000364	-0.287638	-28.773312	
0.50000	-0.313234	-57.011906	-0.228773
-0.000364	-0.041400	-28.287416	
0.75000	-0.313234	-26.064390	-0.228773
-0.000364	-0.275924	-29.415694	
1.00000	-0.313234	-13.093408	-0.228773
-0.000364	-0.518266	-74.730338	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.445907	10.111918	0.211368
0.000777	0.535752	25.204687	
0.25000	0.445907	19.327736	0.211368
0.000777	0.286001	53.336664	
0.50000	0.445907	41.307849	0.211368
0.000777	0.092861	69.330670	
0.75000	0.445907	65.250823	0.211368
0.000777	0.356405	52.888926	
1.00000	0.445907	86.268294	0.211368
0.000777	0.658660	24.345369	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.335527	-85.757392	-0.252353
-0.000570	-0.623012	-54.700302	
0.25000	-0.335527	-64.740591	-0.252353
-0.000570	-0.313237	-23.133134	
0.50000	-0.335527	-40.796534	-0.252353
-0.000570	-0.038414	-23.346499	
0.75000	-0.335527	-18.822242	-0.252353
-0.000570	-0.281407	-23.917599	
1.00000	-0.335527	-9.612193	-0.252353
-0.000570	-0.543283	-56.257489	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.505799	8.561668	0.242154
0.000675	0.615972	24.116978	
0.25000	0.505799	16.210944	0.242154
0.000675	0.326116	47.415108	
0.50000	0.505799	34.454788	0.242154
0.000675	0.089147	60.649539	
0.75000	0.505799	54.327837	0.242154
0.000675	0.392354	47.000888	
1.00000	0.505799	71.772673	0.242154
0.000675	0.739788	23.312763	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.375067	-71.264126	-0.287276
-0.000612	-0.711415	-46.714406	
0.25000	-0.375067	-53.819847	-0.287276
-0.000612	-0.357367	-20.594133	
0.50000	-0.375067	-33.945898	-0.287276
-0.000612	-0.036514	-20.852229	
0.75000	-0.375067	-15.706886	-0.287276
-0.000612	-0.311900	-21.407198	
1.00000	-0.375067	-8.062398	-0.287276
-0.000612	-0.612022	-48.330738	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3961
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.010034	9.364213	0.045446
0.000168	0.124550	14.555813	
0.25000	0.010034	18.462632	0.045446
0.000168	0.079399	42.031822	
0.50000	0.010034	40.162744	0.045446
0.000168	0.054495	57.954932	
0.75000	0.010034	63.800712	0.045446
0.000168	0.081452	41.894027	
1.00000	0.010034	84.550444	0.045446
0.000168	0.124317	13.817558	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.351911	-84.365230	-0.044555
-0.000162	-0.123626	-50.685793	
0.25000	-0.351911	-63.616160	-0.044555
-0.000162	-0.069971	-19.304312	
0.50000	-0.351911	-39.977122	-0.044555
-0.000162	-0.026422	-19.297732	
0.75000	-0.351911	-18.282164	-0.044555
-0.000162	-0.072567	-19.644354	
1.00000	-0.351911	-9.190034	-0.044555
-0.000162	-0.126913	-51.354978	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.120293	9.231401	0.106347
0.000318	0.284407	18.888102	
0.25000	0.120293	17.914032	0.106347
0.000318	0.163824	45.512759	
0.50000	0.120293	38.622472	0.106347
0.000318	0.072217	60.682622	
0.75000	0.120293	61.180210	0.106347
0.000318	0.174051	45.279980	
1.00000	0.120293	80.981702	0.106347
0.000318	0.314454	18.450009	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.379197	-80.656985	-0.121424
-0.000400	-0.314399	-50.306222	
0.25000	-0.379197	-60.856125	-0.121424
-0.000400	-0.165529	-20.080715	
0.50000	-0.379197	-38.297366	-0.121424
-0.000400	-0.032083	-20.596425	
0.75000	-0.379197	-17.594411	-0.121424
-0.000400	-0.139481	-21.049519	
1.00000	-0.379197	-8.917215	-0.121424
-0.000400	-0.269822	-51.433253	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.309790	6.761148	0.184669
0.000702	0.472114	21.945356	
0.25000	0.309790	12.403635	0.184669
0.000702	0.251732	38.842163	
0.50000	0.309790	25.861204	0.184669
0.000702	0.078549	48.395574	
0.75000	0.309790	40.520557	0.184669
0.000702	0.296351	38.425258	
1.00000	0.309790	53.388738	0.184669
0.000702	0.554957	21.155246	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.425085	-52.911616	-0.214220
-0.000605	-0.528728	-35.445545	
0.25000	-0.425085	-40.043848	-0.214220
-0.000605	-0.265363	-16.256277	
0.50000	-0.425085	-25.383832	-0.214220
-0.000605	-0.030456	-16.513198	
0.75000	-0.425085	-11.929827	-0.214220
-0.000605	-0.236561	-16.989501	
1.00000	-0.425085	-6.290872	-0.214220
-0.000605	-0.464490	-36.916401	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3962
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.318392	5.785342	0.228581
0.000577	0.584882	21.243406	
0.25000	0.318392	10.524102	0.228581
0.000577	0.308977	35.427102	
0.50000	0.318392	21.826244	0.228581
0.000577	0.077152	43.440989	
0.75000	0.318392	34.137686	0.228581
0.000577	0.348654	35.042931	
1.00000	0.318392	44.944838	0.228581
0.000577	0.666679	20.510737	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.488041	-44.468174	-0.260887
-0.000610	-0.647426	-31.076941	
0.25000	-0.488041	-33.661367	-0.260887
-0.000610	-0.324990	-15.032592	
0.50000	-0.488041	-21.349368	-0.260887
-0.000610	-0.030214	-15.328302	
0.75000	-0.488041	-10.050220	-0.260887
-0.000610	-0.285047	-15.808150	
1.00000	-0.488041	-5.314426	-0.260887
-0.000610	-0.567662	-32.623392	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.079469	0.187806	0.119327
4.93E-06	0.305777	4.324797	
0.25000	0.079469	0.195959	0.119327
4.93E-06	0.157989	4.320003	
0.50000	0.079469	0.215403	0.119327
4.93E-06	0.017448	4.306607	
0.75000	0.079469	0.236584	0.119327
4.93E-06	0.156354	4.266476	
1.00000	0.079469	0.255177	0.119327
4.93E-06	0.314746	4.217576	

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.269005	-0.140712	-0.127225
-0.000153	-0.319811	-2.096109	
0.25000	-0.269005	-0.122119	-0.127225
-0.000153	-0.161340	-2.195466	
0.50000	-0.269003	-0.100937	-0.127225
-0.000153	-0.007254	-2.323875	
0.75000	-0.269005	-0.081498	-0.127225
-0.000153	-0.140495	-2.451078	
1.00000	-0.269005	-0.073350	-0.127225
-0.000153	-0.288427	-2.606415	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.278219	0.715091	0.189089
0.000108	0.485832	8.793340	
0.25000	0.278219	0.984130	0.189089
0.000108	0.252007	9.507317	
0.50000	0.278219	1.625800	0.189089
0.000108	0.034051	9.887743	
0.75000	0.278219	2.324772	0.189089
0.000108	0.262972	9.391579	
1.00000	0.278219	2.938340	0.189089
0.000108	0.526065	8.553627	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.358714	-2.712752	-0.212082
-0.000357	-0.531482	-5.127331	
0.25000	-0.358714	-2.099204	-0.212082
-0.000357	-0.267293	-4.424226	
0.50000	-0.358714	-1.400201	-0.212082
-0.000357	-0.013387	-4.648769	
0.75000	-0.358714	-0.758701	-0.212082
-0.000357	-0.222312	-4.890317	
1.00000	-0.358714	-0.489830	-0.212082
-0.000357	-0.456615	-5.095476	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 3963 >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.192737	0.862715	0.192376
0.000301	0.500104	13.610546	
0.25000	0.192737	0.870053	0.192376
0.000301	0.262505	13.297389	
0.50000	0.192737	0.887553	0.192376
0.000301	0.049713	13.070219	
0.75000	0.192737	0.906616	0.192376
0.000301	0.269732	13.045584	
1.00000	0.192737	0.923349	0.192376
0.000301	0.536891	13.122795	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.471376	-0.566894	-0.215506
-0.000536	-0.538857	-5.049232	
0.25000	-0.471376	-0.550161	-0.215506
-0.000536	-0.27174	-5.340351	
0.50000	-0.471376	-0.531097	-0.215506
-0.000536	-0.017650	-5.656423	
0.75000	-0.471376	-0.513602	-0.215506
-0.000536	-0.222280	-5.972173	
1.00000	-0.471376	-0.506269	-0.215506
-0.000536	-0.460315	-6.313731	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.244195	6.128978	0.227084
0.000476	0.585242	20.749514	
0.25000	0.244195	11.265182	0.227084
0.000476	0.310706	36.189356	
0.50000	0.244195	23.515245	0.227084
0.000476	0.076537	44.911050	
0.75000	0.244195	36.859260	0.227084
0.000476	0.333038	35.846989	
1.00000	0.244195	48.572818	0.227084
0.000476	0.638906	20.107694	

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.605520	-48.125711	-0.251365
-0.000589	-0.628894	-33.147801	
0.25000	-0.605520	-36.412526	-0.251365
-0.000589	-0.317904	-15.720916	
0.50000	-0.605520	-23.067908	-0.251365
-0.000589	-0.030868	-16.004839	
0.75000	-0.605520	-10.821089	-0.251365
-0.000589	-0.287351	-16.488919	
1.00000	-0.605520	-5.688100	-0.251365
-0.000589	-0.560557	-34.677840	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.427524	11.673197	0.189430
0.000968	0.477540	25.932545	
0.25000	0.427524	34.134811	0.189430
0.000968	0.249063	83.441665	
0.50000	0.427524	63.750225	0.189430
0.000968	0.084184	105.985487	
0.75000	0.427524	91.592532	0.189430
0.000968	0.257453	82.876688	
1.00000	0.427524	121.076051	0.189430
0.000968	0.497792	24.669772	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.522662	-120.747803	-0.198097
-0.000758	-0.497312	-81.480591	
0.25000	-0.522662	-91.274887	-0.198097
-0.000758	-0.255827	-30.661065	
0.50000	-0.522662	-63.431588	-0.198097
-0.000758	-0.048985	-30.257983	
0.75000	-0.522662	-33.816442	-0.198097
-0.000758	-0.246997	-31.121482	
1.00000	-0.522662	-11.374937	-0.198097
-0.000758	-0.480937	-82.326225	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 3964 >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.505799	13.484457	0.242154
0.000777	0.615972	25.204687	
0.25000	0.505799	26.463564	0.242154
0.000777	0.326116	63.954947	
0.50000	0.505799	57.419279	0.242154
0.000777	0.092861	86.673279	
0.75000	0.505799	91.139391	0.242154
0.000777	0.392354	63.597392	
1.00000	0.505799	120.739368	0.242154
0.000777	0.739788	24.345369	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.605520	-120.332577	-0.287276
-0.000612	-0.711415	-73.462339	
0.25000	-0.605520	-90.733544	-0.287276
-0.000612	-0.357367	-28.773312	
0.50000	-0.605520	-57.011906	-0.287276
-0.000612	-0.041600	-28.042616	
0.75000	-0.605520	-26.064390	-0.287276
-0.000612	-0.311900	-29.415694	
1.00000	-0.605520	-13.093408	-0.287276
-0.000612	-0.612022	-74.730338	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.505799	13.484457	0.242154
0.000968	0.615972	25.932545	
0.25000	0.505799	34.134811	0.242154
0.000968	0.326116	83.441665	
0.50000	0.505799	63.750225	0.242154
0.000968	0.092861	105.985487	
0.75000	0.505799	91.592532	0.242154
0.000968	0.392354	82.876688	
1.00000	0.505799	121.076051	0.242154
0.000968	0.739788	24.669772	

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.605520	-120.747803	-0.287276
-0.000758	-0.711415	-81.480591	
0.25000	-0.605520	-91.274887	-0.287276
-0.000758	-0.357367	-30.661065	
0.50000	-0.605520	-63.431588	-0.287276
-0.000758	-0.048985	-30.257983	
0.75000	-0.605520	-33.816442	-0.287276
-0.000758	-0.311900	-31.121482	
1.00000	-0.605520	-13.093408	-0.287276
-0.000758	-0.612022	-82.326225	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.505799	13.484457	0.242154
0.000968	0.615972	25.932545	
0.25000	0.505799	34.134811	0.242154
0.000968	0.326116	83.441665	
0.50000	0.505799	63.750225	0.242154
0.000968	0.092861	105.985487	
0.75000	0.505799	91.592532	0.242154
0.000968	0.392354	82.876688	
1.00000	0.505799	121.076051	0.242154
0.000968	0.739788	24.669772	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.605520	-120.747803	-0.287276
-0.000758	-0.711415	-81.480591	
0.25000	-0.605520	-91.274887	-0.287276
-0.000758	-0.357367	-30.661065	
0.50000	-0.605520	-63.431588	-0.287276
-0.000758	-0.048985	-30.257983	
0.75000	-0.605520	-33.816442	-0.287276
-0.000758	-0.311900	-31.121482	
1.00000	-0.605520	-13.093408	-0.287276
-0.000758	-0.612022	-82.326225	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 3965 >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 381 ========== LENGTH = 4.972401

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.225768	0.649601	0.114568
0.000921	0.281275	7.143293	
0.25000	0.225768	0.673735	0.114568
0.000921	0.138869	6.595967	
0.50000	0.225768	0.705512	0.114568
0.000921	0.019214	6.085313	
0.75000	0.225768	0.735385	0.114568
0.000921	0.150171	5.700673	
1.00000	0.225768	0.767020	0.114568
0.000921	0.297887	5.435882	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.007978	-0.264659	-0.118836
-5.50E-06	-0.293058	-2.276020	
0.25000	-0.007978	-0.233055	-0.118836
-5.50E-06	-0.145338	-2.311707	
0.50000	-0.007978	-0.203180	-0.118836
-5.50E-06	-0.007140	-2.401650	
0.75000	-0.007978	-0.171404	-0.118836
-5.50E-06	-0.146284	-2.492840	
1.00000	-0.007978	-0.147329	-0.118836
-5.50E-06	-0.288601	-2.638101	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.257406	11.910154	0.152675
0.001123	0.379420	24.611515	
0.25000	0.257406	34.403481	0.152675
0.001123	0.272342	82.010825	
0.50000	0.257406	64.019235	0.152675
0.001123	0.078297	104.146111	
0.75000	0.257406	91.860692	0.152675
0.001123	0.250875	80.399157	
1.00000	0.257406	121.344236	0.152675
0.001123	0.473714	21.837862	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.185417	-120.464862	-0.183174
-6.39E-05	-0.459875	-82.341887	
0.25000	-0.185417	-91.010393	-0.183174
-6.39E-05	-0.238383	-31.493702	
0.50000	-0.185417	-63.166581	-0.183174
-6.39E-05	-0.051765	-31.211608	
0.75000	-0.185417	-33.551504	-0.183174
-6.39E-05	-0.218739	-32.092261	
1.00000	-0.185417	-11.113552	-0.183174
-6.39E-05	-0.408286	-83.366200	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.237910	8.822520	0.166582
0.001166	0.414105	24.688704	
0.25000	0.237910	24.135842	0.166582
0.001166	0.215649	63.074976	
0.50000	0.237910	44.298070	0.166582
0.001166	0.075344	77.573662	
0.75000	0.237910	63.252366	0.166582
0.001166	0.277918	61.074270	
1.00000	0.237910	83.324586	0.166582
0.001166	0.524456	21.071278	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.201182	-82.209063	-0.201251
-0.000366	-0.492307	-58.553355	
0.25000	-0.201182	-62.156637	-0.201251
-0.000366	-0.246716	-24.015774	
0.50000	-0.201182	-43.200738	-0.201251
-0.000366	-0.043614	-23.903285	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 3966 >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.274392	7.548327	0.187653
0.000971	0.467663	23.177200	
0.25000	0.274392	20.255126	0.187653
0.000971	0.241564	54.779923	
0.50000	0.274392	36.985485	0.187653
0.000971	0.071025	66.608762	
0.75000	0.274392	52.713518	0.187653
0.000971	0.286698	52.761846	
1.00000	0.274392	69.369190	0.187653
0.000971	0.549839	19.468323	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.232720	-68.253837	-0.214120
-0.000604	-0.528238	-49.867436	
0.25000	-0.232720	-51.614590	-0.214120
-0.000604	-0.265266	-21.235933	
0.50000	-0.232720	-35.885226	-0.214120
-0.000604	-0.040559	-21.170084	
0.75000	-0.232720	-19.155250	-0.214120
-0.000604	-0.247589	-21.761121	
1.00000	-0.232720	-6.479733	-0.214120
-0.000604	-0.480695	-50.820055	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.011511	9.641346	0.027564
0.000193	0.072379	16.369351	
0.25000	0.011511	28.466233	0.027564
0.000193	0.048715	64.776489	
0.50000	0.011511	53.251951	0.027564
0.000193	0.054326	83.623089	
0.75000	0.011511	76.552740	0.027564
0.000193	0.098267	63.994928	
1.00000	0.011511	101.227810	0.027564
0.000193	0.169454	15.141312	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.205622	-100.810728	-0.060701
-0.000191	-0.151894	-67.605861	
0.25000	-0.205622	-76.159992	-0.060701
-0.000191	-0.081786	-24.988502	
0.50000	-0.205622	-52.857231	-0.060701
-0.000191	-0.039187	-24.690404	
0.75000	-0.205622	-28.072081	-0.060701
-0.000191	-0.215444	-24.365422	
1.00000	-0.205622	-9.293537	-0.060701
-0.000191	-0.087182	-68.215091	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.075316	9.390341	0.074139
0.000231	0.189262	20.327736	
0.25000	0.075316	26.911967	0.074139
0.000231	0.107000	64.904142	
0.50000	0.075316	49.981750	0.074139
0.000231	0.065548	82.060480	
0.75000	0.075316	71.669408	0.074139
0.000231	0.162063	63.546582	
1.00000	0.075316	94.636203	0.074139
0.000231	0.292601	17.987535	

COMB DB-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.246024	-93.890366	-0.108338
-0.000558	-0.264533	-64.790018	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 3967 >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.25000	-0.246024	-70.946219	-0.108338
-0.000558	-0.135090	-25.172517	
0.50000	-0.246024	-49.256726	-0.108338
-0.000558	-0.042782	-24.944481	
0.75000	-0.246024	-26.187471	-0.108338
-0.000558	-0.108316	-25.622218	
1.00000	-0.246024	-8.708980	-0.108338
-0.000558	-0.200319	-65.554831	

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.202790	7.516150	0.144617
0.000915	0.360286	22.796678	
0.25000	0.202790	19.918854	0.144617
0.000915	0.187508	53.551587	
0.50000	0.202790	36.248829	0.144617
0.000915	0.068673	65.112436	
0.75000	0.202790	51.600465	0.144617
0.000915	0.240687	51.704261	
1.00000	0.202790	67.857539	0.144617
0.000915	0.454410	19.362193	

COMB DB-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.262360	-66.785668	-0.174346
-0.000619	-0.425768	-48.310249	
0.25000	-0.262360	-50.544625	-0.174346
-0.000619	-0.212820	-20.357013	
0.50000	-0.262360	-35.191691	-0.174346
-0.000619	-0.038359	-20.285659	
0.75000	-0.262360	-18.862090	-0.174346
-0.000619	-0.194102	-20.855462	
1.00000	-0.262360	-6.489919	-0.174346
-0.000619	-0.373780	-49.211883	

COMB DB-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.189532	6.439606	0.173486
0.000763	0.433225	21.290422	
0.25000	0.189532	16.829496	0.173486
0.000763	0.223367	46.907083	
0.50000	0.189532	30.509305	0.173486
0.000763	0.065084	56.435118	
0.75000	0.189532	43.369549	0.173486
0.000763	0.260122	45.246580	
1.00000	0.189532	56.988289	0.173486
0.000763	0.500296	17.789613	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.299586	-55.948931	-0.195230
-0.000795	-0.481675	-41.702396	
0.25000	-0.299586	-42.343621	-0.195230
-0.000795	-0.242156	-18.308245	
0.50000	-0.299586	-29.482290	-0.195230
-0.000795	-0.036431	-18.271181	
0.75000	-0.299586	-15.802793	-0.195230
-0.000795	-0.226344	-18.771390	
1.00000	-0.299586	-5.438482	-0.195230
-0.000795	-0.441960	-42.548768	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.052444	0.239737	0.083738
3.08E-06	0.210169	3.343712	
0.25000	0.052444	0.263871	0.083738
3.08E-06	0.106883	3.155748	
0.50000	0.052444	0.295648	0.083738
3.08E-06	0.011580	2.938249	
0.75000	0.052444	0.325521	0.083738
3.08E-06	0.093774	2.681725	
1.00000	0.052444	0.357155	0.083738
3.08E-06	0.191563	2.404350	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 3968 >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.142846	-0.151704	-0.078777
-0.000435	-0.200197	-1.997740	
0.25000	-0.142846	-0.119600	-0.078777
-0.000435	-0.102320	-1.976181	
0.50000	-0.142846	-0.089725	-0.078777
-0.000435	-0.006703	-2.008877	
0.75000	-0.142846	-0.062749	-0.078777
-0.000435	-0.102128	-2.043075	
1.00000	-0.142846	-0.033874	-0.078777
-0.000435	-0.206239	-2.131518	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.166499	0.922337	0.134566
3.05E-05	0.337913	7.377243	
0.25000	0.166499	1.646371	0.134566
3.05E-05	0.171003	8.627508	
0.50000	0.166499	2.599668	0.134566
3.05E-05	0.024057	8.851529	
0.75000	0.166499	3.495852	0.134566
3.05E-05	0.156031	7.686933	
1.00000	0.166499	4.444893	0.134566
3.05E-05	0.314723	5.546444	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.215444	-3.974684	-0.128264
-0.000797	-0.325983	-5.957573	
0.25000	-0.215444	-3.026579	-0.128264
-0.000797	-0.166719	-4.385676	
0.50000	-0.215444	-2.130319	-0.128264
-0.000797	-0.013052	-4.441442	
0.75000	-0.215444	-1.177044	-0.128264
-0.000797	-0.164749	-4.535060	
1.00000	-0.215444	-0.454792	-0.128264
-0.000797	-0.332060	-6.250904	

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.110088	1.594874	0.140692
0.000215	0.353765	12.532229	
0.25000	0.110088	2.746088	0.140692
0.000215	0.179525	14.477450	
0.50000	0.110088	4.261830	0.140692
0.000215	0.037940	14.806866	
0.75000	0.110088	5.686763	0.140692
0.000215	0.199007	13.050208	
1.00000	0.110088	7.195738	0.140692
0.000215	0.388454	9.745390	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.278207	-6.434322	-0.152931
-0.000955	-0.374020	-8.715545	
0.25000	-0.278207	-4.926835	-0.152931
-0.000955	-0.184595	-6.263125	
0.50000	-0.278207	-3.501781	-0.152931
-0.000955	-0.018224	-6.354690	
0.75000	-0.278207	-1.986074	-0.152931
-0.000955	-0.172283	-6.506154	
1.00000	-0.278207	-0.837694	-0.152931
-0.000955	-0.347178	-9.236858	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.155940	7.244527	0.166640
0.000556	0.417780	21.369344	
0.25000	0.155940	19.516905	0.166640
0.000556	0.217565	51.973683	
0.50000	0.155940	35.675286	0.166640
0.000556	0.066895	63.491527	
0.75000	0.155940	50.865609	0.166640
0.000556	0.251072	50.193820	
1.00000	0.155940	66.951856	0.166640
0.000556	0.481899	18.059413	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD 3969 >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.368764	-65.987820	-0.188053
-0.000865	-0.466180	-48.199044	
0.25000	-0.368764	-49.917437	-0.188053
-0.000865	-0.236089	-20.523471	
0.50000	-0.368764	-34.725829	-0.188053
-0.000865	-0.039572	-20.436801	
0.75000	-0.368764	-18.567818	-0.188053
-0.000865	-0.218517	-20.984850	
1.00000	-0.368764	-6.325652	-0.188053
-0.000865	-0.425557	-49.027601	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.329269	0.656628	0.150251
0.000826	0.364682	7.387600	
0.25000	0.329269	0.664788	0.150251
0.000826	0.177516	6.908355	
0.50000	0.329269	0.684233	0.150251
0.000826	0.022209	6.449845	
0.75000	0.329269	0.705416	0.150251
0.000826	0.268080	6.026569	
1.00000	0.329269	0.724006	0.150251
0.000826	0.520607	5.641838	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.010890	-0.198090	-0.203100
-5.02E-06	-0.489257	-2.942494	
0.25000	-0.010890	-0.179499	-0.203100
-5.02E-06	-0.236753	-3.026648	
0.50000	-0.010890	-0.158320	-0.203100
-5.02E-06	-0.009337	-3.138901	
0.75000	-0.010890	-0.138882	-0.203100
-5.02E-06	-0.195311	-3.251532	
1.00000	-0.010890	-0.130739	-0.203100
-5.02E-06	-0.382501	-3.391969	

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.339501	13.718745	0.217024
0.000942	0.525234	23.427704	
0.25000	0.339501	26.709088	0.217024
0.000942	0.274903	62.752334	
0.50000	0.339501	57.665347	0.217024
0.000942	0.084848	84.974858	
0.75000	0.339501	91.389505	0.217024
0.000942	0.414002	61.383479	
1.00000	0.339501	120.984427	0.217024
0.000942	0.763613	20.748984	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.227948	-120.064572	-0.293129
-4.42E-05	-0.721230	-74.771621	
0.25000	-0.227948	-90.467984	-0.293129
-4.42E-05	-0.361692	-29.960797	
0.50000	-0.227948	-56.750851	-0.293129
-4.42E-05	-0.045790	-30.155160	
0.75000	-0.227948	-25.805087	-0.293129
-4.42E-05	-0.308924	-30.701126	
1.00000	-0.227948	-12.841935	-0.293129
-4.42E-05	-0.579789	-76.126347	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.319417	10.410556	0.220912
0.000997	0.536831	24.395045	
0.25000	0.319417	19.634352	0.220912
0.000997	0.277424	51.799861	
0.50000	0.319417	41.614852	0.220912
0.000997	0.084718	67.118921	
0.75000	0.319417	65.560699	0.220912
0.000997	0.403988	49.997910	
1.00000	0.319417	86.574580	0.220912
0.000997	0.828280	20.850955	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3970

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.259348	-85.419603	-0.317009
-0.000294	-0.768527	-56.286703	
0.25000	-0.259348	-64.404537	-0.317009
-0.000294	-0.379319	-24.570105	
0.50000	-0.259348	-40.463679	-0.317009
-0.000294	-0.043188	-24.809313	
0.75000	-0.259348	-18.490631	-0.317009
-0.000294	-0.305970	-25.297884	
1.00000	-0.259348	-9.286142	-0.317009
-0.000294	-0.581574	-57.653205	

COMB DL-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.365525	8.875531	0.242420
0.000830	0.593941	23.346838	
0.25000	0.365525	16.531409	0.242420
0.000830	0.305427	45.890245	
0.50000	0.365525	34.775593	0.242420
0.000830	0.080498	58.416077	
0.75000	0.365525	54.651027	0.242420
0.000830	0.470246	44.057160	
1.00000	0.365525	72.092884	0.242420
0.000830	0.888663	19.728274	

COMB DL-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.297708	-70.940722	-0.343697
-0.000492	-0.837195	-48.339211	
0.25000	-0.297708	-53.497883	-0.343697
-0.000492	-0.413781	-22.050540	
0.50000	-0.297708	-33.626589	-0.343697
-0.000492	-0.041299	-22.285617	
0.75000	-0.297708	-15.388610	-0.343697
-0.000492	-0.297755	-22.772686	
1.00000	-0.297708	-7.748737	-0.343697
-0.000492	-0.627726	-49.619665	

COMB DL-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.013173	9.458060	0.047496
0.000165	0.112746	13.823137	
0.25000	0.013173	18.564356	0.047496
0.000165	0.068007	41.528018	
0.50000	0.013173	40.264849	0.047496
0.000165	0.051660	57.230167	
0.75000	0.013173	63.905654	0.047496
0.000165	0.122755	40.936412	
1.00000	0.013173	84.651843	0.047496
0.000165	0.204769	12.709703	

COMB DL-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.259422	-84.233749	-0.074422
-0.000154	-0.185019	-51.356825	
0.25000	-0.259422	-63.486392	-0.074422
-0.000154	-0.095835	-19.894677	
0.50000	-0.259422	-39.850512	-0.074422
-0.000154	-0.028758	-19.981541	
0.75000	-0.259422	-18.157376	-0.074422
-0.000154	-0.082009	-20.314643	
1.00000	-0.259422	-9.070141	-0.074422
-0.000154	-0.141272	-52.108427	

COMB DL-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.088982	9.413979	0.092984
0.000222	0.228427	18.451747	
0.25000	0.088982	18.104127	0.092984
0.000222	0.127871	44.586825	
0.50000	0.088982	38.812931	0.092984
0.000222	0.066785	59.310375	
0.75000	0.088982	61.373376	0.092984
0.000222	0.225160	43.455630	
1.00000	0.088982	81.171486	0.092984
0.000222	0.404139	16.251965	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3971

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.298586	-80.432173	-0.152154
-0.000453	-0.372041	-51.420737	
0.25000	-0.298586	-60.632947	-0.152154
-0.000453	-0.187505	-21.463627	
0.50000	-0.298586	-38.077202	-0.152154
-0.000453	-0.035541	-21.613385	
0.75000	-0.298586	-17.375419	-0.152154
-0.000453	-0.136794	-21.998228	
1.00000	-0.298586	-8.703461	-0.152154
-0.000453	-0.252240	-52.406064	

COMB DL-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.224255	7.039923	0.187220
0.000807	0.455799	21.186907	
0.25000	0.224255	12.687295	0.187220
0.000807	0.232688	37.431654	
0.50000	0.224255	26.145100	0.187220
0.000807	0.070739	46.317185	
0.75000	0.224255	40.806212	0.187220
0.000807	0.375598	35.682979	
1.00000	0.224255	53.672196	0.187220
0.000807	0.703552	17.824483	

COMB DL-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.327033	-52.597249	-0.269049
-0.000525	-0.647121	-36.929601	
0.25000	-0.327033	-39.730541	-0.269049
-0.000525	-0.316055	-17.583804	
0.50000	-0.327033	-25.072483	-0.269049
-0.000525	-0.034740	-17.803334	
0.75000	-0.327033	-11.619240	-0.269049
-0.000525	-0.254182	-18.175622	
1.00000	-0.327033	-5.983689	-0.269049
-0.000525	-0.487453	-38.058626	

COMB DL-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.238823	6.084727	0.221724
0.000674	0.545356	20.526743	
0.25000	0.238823	10.827592	0.221724
0.000674	0.277949	34.016234	
0.50000	0.238823	22.129932	0.221724
0.000674	0.068830	41.330131	
0.75000	0.238823	34.442851	0.221724
0.000674	0.417053	32.243018	
1.00000	0.238823	45.248157	0.221724
0.000674	0.794255	17.085939	

COMB DL-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.384489	-44.176586	-0.307564
-0.000680	-0.745929	-32.616114	
0.25000	-0.384489	-33.370670	-0.307564
-0.000680	-0.366940	-16.400405	
0.50000	-0.384489	-21.060316	-0.307564
-0.000680	-0.034642	-16.616297	
0.75000	-0.384489	-9.761808	-0.307564
-0.000680	-0.291761	-16.960402	
1.00000	-0.384489	-5.028873	-0.307564
-0.000680	-0.567844	-33.690357	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.078276	0.287870	0.104985
2.75E-06	0.264511	4.199128	
0.25000	0.078276	0.296030	0.104985
2.75E-06	0.134246	3.981820	
0.50000	0.078276	0.315474	0.104985
2.75E-06	0.014625	3.757359	
0.75000	0.078276	0.336658	0.104985
2.75E-06	0.158318	3.510829	
1.00000	0.078276	0.355248	0.104985
2.75E-06	0.316812	3.254785	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3972

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.219307	-0.103625	-0.127419
-0.000382	-0.137838	-2.577151	
0.25000	-0.219307	-0.085034	-0.127419
-0.000382	-0.158619	-2.597204	
0.50000	-0.219307	-0.063855	-0.127419
-0.000382	-0.008620	-2.645400	
0.75000	-0.219307	-0.044417	-0.127419
-0.000382	-0.127480	-2.693802	
1.00000	-0.219307	-0.036274	-0.127419
-0.000382	-0.257875	-2.770426	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.220522	0.893960	0.166050
2.43E-05	0.418269	8.529868	
0.25000	0.220522	1.163232	0.166050
2.43E-05	0.212550	8.828366	
0.50000	0.220522	1.804913	0.166050
2.43E-05	0.026911	8.821720	
0.75000	0.220522	2.503969	0.166050
2.43E-05	0.272580	7.934972	
1.00000	0.220522	3.117432	0.166050
2.43E-05	0.541755	6.720551	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.296881	-2.608222	-0.216994
-0.000682	-0.538877	-6.007719	
0.25000	-0.296881	-1.994725	-0.216994
-0.000682	-0.268532	-5.192690	
0.50000	-0.296881	-1.295815	-0.216994
-0.000682	-0.015828	-5.293196	
0.75000	-0.296881	-0.654351	-0.216994
-0.000682	-0.202067	-5.401098	
1.00000	-0.296881	-0.385642	-0.216994
-0.000682	-0.408248	-6.439344	

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.160686	1.108257	0.166429
0.000211	0.416307	13.103501	
0.25000	0.160686	1.115601	0.166429
0.000211	0.211003	12.238499	
0.50000	0.160686	1.133101	0.166429
0.000211	0.042511	11.431990	
0.75000	0.160686	1.152166	0.166429
0.000211	0.307581	10.839570	
1.00000	0.160686	1.168897	0.166429
0.000211	0.599341	10.363867	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.389006	-0.371859	-0.234874
-0.000812	-0.570460	-6.271508	
0.25000	-0.389006	-0.354298	-0.234874
-0.000812	-0.279087	-6.403650	
0.50000	-0.389006	-0.335236	-0.234874
-0.000812	-0.020933	-6.560420	
0.75000	-0.389006	-0.317742	-0.234874
-0.000812	-0.230625	-6.717344	
1.00000	-0.389006	-0.310413	-0.234874
-0.000812	-0.412464	-6.899716	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.197607	6.415606	0.213247
0.000502	0.526803	20.109041	
0.25000	0.197607	11.556257	0.213247
0.000502	0.270828	34.878058	
0.50000	0.197607	23.806535	0.213247
0.000502	0.068357	42.934966	
0.75000	0.197607	37.152151	0.213247
0.000502	0.392775	33.208968	
1.00000	0.197607	48.863709	0.213247
0.000502	0.747664	16.870873	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3973

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.477022	-47.862433	-0.290322
-0.000757	-0.708385	-34.656868	
0.25000	-0.477022	-36.150215	-0.290322
-0.000757	-0.349820	-17.122533	
0.50000	-0.477022	-22.807380	-0.290322
-0.000757	-0.035206	-17.429847	
0.75000	-0.477022	-10.561255	-0.290322
-0.000757	-0.279435	-17.777194	
1.00000	-0.477022	-5.431364	-0.290322
-0.000757	-0.544743	-35.771158	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.274392	11.910154	0.187653
0.001166	0.467663	24.688704	
0.25000	0.274392	34.403481	0.187653
0.001166	0.241564	82.026825	
0.50000	0.274392	64.019235	0.187653
0.001166	0.078297	104.146111	
0.75000	0.274392	91.860692	0.187653
0.001166	0.286598	80.399157	
1.00000	0.274392	121.344236	0.187653
0.001166	0.549839	21.837862	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.368764	-120.464862	-0.214120
-0.000955	-0.528238	-82.341887	
0.25000	-0.368764	-91.010393	-0.214120
-0.000955	-0.265866	-31.493702	
0.50000	-0.368764	-63.166581	-0.214120
-0.000955	-0.051765	-31.211608	
0.75000	-0.368764	-33.551504	-0.214120
-0.000955	-0.247589	-32.092261	
1.00000	-0.368764	-11.113552	-0.214120
-0.000955	-0.480695	-83.366200	

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.365525	13.718745	0.242420
0.000997	0.593941	24.395045	
0.25000	0.365525	26.709088	0.242420
0.000997	0.305427	62.752334	
0.50000	0.365525	57.665347	0.242420
0.000997	0.084848	84.974858	
0.75000	0.365525	91.389505	0.242420
0.000997	0.470246	61.383479	
1.00000	0.365525	120.984427	0.242420
0.000997	0.888663	20.850955	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.477022	-120.064572	-0.343697
-0.000812	-0.837195	-74.771621	
0.25000	-0.477022	-90.467984	-0.343697
-0.000812	-0.413781	-29.960797	
0.50000	-0.477022	-56.750851	-0.343697
-0.000812	-0.045790	-30.155160	
0.75000	-0.477022	-25.805087	-0.343697
-0.000812	-0.325755	-30.701126	
1.00000	-0.477022	-12.841935	-0.343697
-0.000812	-0.627726	-76.126347	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.365525	13.718745	0.242420
0.001166	0.593941	24.688704	
0.25000	0.365525	34.403481	0.242420
0.001166	0.305427	82.026825	
0.50000	0.365525	64.019235	0.242420
0.001166	0.084848	104.146111	
0.75000	0.365525	91.860692	0.242420
0.001166	0.470246	80.399157	
1.00000	0.365525	121.344236	0.242420
0.001166	0.888663	21.837862	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3974

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.477022	-120.464862	-0.343697
-0.000955	-0.837195	-82.341887	
0.25000	-0.477022	-91.010393	-0.343697
-0.000955	-0.413781	-31.493702	
0.50000	-0.477022	-63.166581	-0.343697
-0.000955	-0.051765	-31.211608	
0.75000	-0.477022	-33.551504	-0.343697
-0.000955	-0.325755	-32.092261	
1.00000	-0.477022	-12.841935	-0.343697
-0.000955	-0.627726	-83.366200	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.365525	13.718745	0.242420
0.001166	0.593941	24.688704	
0.25000	0.365525	34.403481	0.242420
0.001166	0.305427	82.026825	
0.50000	0.365525	64.019235	0.242420
0.001166	0.084848	104.146111	
0.75000	0.365525	91.860692	0.242420
0.001166	0.470246	80.399157	
1.00000	0.365525	121.344236	0.242420
0.001166	0.888663	21.837862	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.477022	-120.464862	-0.343697
-0.000955	-0.837195	-82.341887	
0.25000	-0.477022	-91.010393	-0.343697
-0.000955	-0.413781	-31.493702	
0.50000	-0.477022	-63.166581	-0.343697
-0.000955	-0.051765	-31.211608	
0.75000	-0.477022	-33.551504	-0.343697
-0.000955	-0.325755	-32.092261	
1.00000	-0.477022	-12.841935	-0.343697
-0.000955	-0.627726	-83.366200	

ELEM 382 ========== LENGTH = 4.92976

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.136977	0.670137	0.123578
0.001107	0.302544	5.462294	
0.25000	0.136977	0.694310	0.123578
0.001107	0.148900	4.869974	
0.50000	0.136977	0.726097	0.123578
0.001107	0.013862	4.321645	
0.75000	0.136977	0.755974	0.123578
0.001107	0.157524	3.876166	
1.00000	0.136977	0.787635	0.123578
0.001107	0.312431	3.573415	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.026514	-0.222798	-0.124597
-5.58E-06	-0.307226	-2.855529	
0.25000	-0.026514	-0.191197	-0.124597
-5.58E-06	-0.152307	-2.734601	
0.50000	-0.026514	-0.161314	-0.124597
-5.58E-06	-0.008312	-2.867926	
0.75000	-0.026514	-0.129532	-0.124597
-5.58E-06	-0.156483	-3.002356	
1.00000	-0.026514	-0.105467	-0.124597
-5.58E-06	-0.312018	-3.191512	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.168280	11.899041	0.172443
0.001388	0.418708	21.840464	
0.25000	0.168280	34.429635	0.172443
0.001388	0.212657	79.160776	
0.50000	0.168280	64.054259	0.172443
0.001388	0.069036	101.165775	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3975

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	0.168280	91.900276	0.172443
0.001388	0.270931	76.994368	
1.00000	0.168280	121.408063	0.172443
0.001388	0.513088	18.628174	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.131590	-120.382053	-0.200154
-5.82E-05	-0.515729	-83.413013	
0.25000	-0.131590	-90.929943	-0.200154
-5.82E-05	-0.267350	-32.619098	
0.50000	-0.131590	-63.078532	-0.200154
-5.82E-05	-0.055178	-32.389050	
0.75000	-0.131590	-33.458475	-0.200154
-5.82E-05	-0.241053	-33.184798	
1.00000	-0.131590	-11.029866	-0.200154
-5.82E-05	-0.450277	-84.730043	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.159935	8.838400	0.177399
0.001196	0.435429	21.079916	
0.25000	0.159935	24.176480	0.177399
0.001196	0.220572	59.343317	
0.50000	0.159935	44.344746	0.177399
0.001196	0.063048	73.701120	
0.75000	0.159935	63.302147	0.177399
0.001196	0.313743	56.845373	
1.00000	0.159935	83.390871	0.177399
0.001196	0.600567	16.923722	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.161046	-82.101161	-0.234503
-0.000420	-0.588578	-59.607748	
0.25000	-0.161046	-62.050206	-0.234503
-0.000420	-0.297552	-25.152806	
0.50000	-0.161046	-43.089132	-0.234503
-0.000420	-0.047064	-25.121836	
0.75000	-0.161046	-22.923955	-0.234503
-0.000420	-0.237589	-25.791357	
1.00000	-0.161046	-7.654713	-0.234503
-0.000420	-0.454588	-61.007305	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.177861	7.575476	0.193729
0.000997	0.478349	19.490306	
0.25000	0.177861	20.302819	0.193729
0.000997	0.242197	50.964373	
0.50000	0.177861	37.038188	0.193729
0.000997	0.058041	62.659939	
0.75000	0.177861	52.768798	0.193729
0.000997	0.319080	48.495365	
1.00000	0.177861	69.438164	0.193729
0.000997	0.611654	15.252935	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.180765	-68.164164	-0.238545
-0.000740	-0.598029	-50.847477	
0.25000	-0.180765	-51.526137	-0.238545
-0.000740	-0.301959	-22.285907	
0.50000	-0.180765	-35.792481	-0.238545
-0.000740	-0.043915	-22.288645	
0.75000	-0.180765	-19.059674	-0.238545
-0.000740	-0.253647	-22.872719	
1.00000	-0.180765	-6.389452	-0.238545
-0.000740	-0.491546	-52.123423	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.018277	9.622160	0.038080
0.000163	0.087261	15.118143	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.018277	28.477484	0.038080
0.000163	0.046880	63.459199	
0.50000	0.018277	53.270624	0.038080
0.000163	0.049728	82.238514	
0.75000	0.018277	76.575231	0.038080
0.000163	0.17416	62.288538	
1.00000	0.018277	101.270588	0.038080
0.000163	0.210173	13.612208	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.117696	-100.764108	-0.079221
-0.000199	-0.211870	-68.239698	
0.25000	-0.117696	-76.115179	-0.079221
-0.000199	-0.113800	-25.641768	
0.50000	-0.117696	-52.806058	-0.079221
-0.000199	-0.041297	-25.361382	
0.75000	-0.117696	-28.016715	-0.079221
-0.000199	-0.068442	-25.941443	
1.00000	-0.117696	-9.246016	-0.079221
-0.000199	-0.111563	-68.989605	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.054842	9.387347	0.074230
5.02E-05	0.184401	17.976367	
0.25000	0.054842	26.937302	0.074230
5.02E-05	0.098626	62.469645	
0.50000	0.054842	50.013994	0.074230
5.02E-05	0.057010	79.525799	
0.75000	0.054842	71.705205	0.074230
5.02E-05	0.198427	60.662141	
1.00000	0.054842	94.690884	0.074230
5.02E-05	0.367452	15.239488	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.170409	-93.823185	-0.140342
-0.000658	-0.356796	-65.576441	
0.25000	-0.170409	-70.880720	-0.140342
-0.000658	-0.182956	-25.998365	
0.50000	-0.170409	-49.185308	-0.140342
-0.000658	-0.045487	-25.808515	
0.75000	-0.170409	-26.112150	-0.140342
-0.000658	-0.105265	-26.419845	
1.00000	-0.170409	-8.640961	-0.140342
-0.000658	-0.193615	-66.559231	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.138476	7.539638	0.151562
0.000865	0.373235	19.363329	
0.25000	0.138476	19.962396	0.151562
0.000865	0.189419	49.985691	
0.50000	0.138476	36.297260	0.151562
0.000865	0.056711	61.414715	
0.75000	0.138476	51.651411	0.151562
0.000865	0.278371	47.690433	
1.00000	0.138476	67.921852	0.151562
0.000865	0.531764	15.376976	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.176008	-66.682763	-0.206965
-0.000597	-0.516156	-49.240957	
0.25000	-0.176008	-50.442911	-0.206965
-0.000597	-0.259351	-21.368427	
0.50000	-0.176008	-35.085787	-0.206965
-0.000597	-0.041763	-21.377230	
0.75000	-0.176008	-18.753423	-0.206965
-0.000597	-0.201362	-21.953546	
1.00000	-0.176008	-6.386420	-0.206965
-0.000597	-0.386967	-50.509841	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.147763	6.475475	0.176079
0.000721	0.436264	17.806900	
0.25000	0.147763	16.222163	0.176079
0.000721	0.221174	43.283951	
0.50000	0.147763	30.566069	0.176079
0.000721	0.052413	52.680604	
0.75000	0.147763	43.428420	0.176079
0.000721	0.285717	41.012796	
1.00000	0.147763	57.058357	0.176079
0.000721	0.546498	13.770701	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.199658	-55.866607	-0.214985
-0.000870	-0.539118	-42.567494	
0.25000	-0.199658	-42.262294	-0.214985
-0.000870	-0.272285	-19.235183	
0.50000	-0.199658	-29.397453	-0.214985
-0.000870	-0.039690	-19.259364	
0.75000	-0.199658	-15.715642	-0.214985
-0.000870	-0.208256	-19.759167	
1.00000	-0.199658	-5.355660	-0.214985
-0.000870	-0.444808	-43.698923	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.062812	0.264001	0.078728
4.72E-07	0.198023	2.428932	
0.25000	0.062812	0.288175	0.078728
4.72E-07	0.100136	2.203730	
0.50000	0.062812	0.319961	0.078728
4.72E-07	0.007504	1.953131	
0.75000	0.062812	0.348839	0.078728
4.72E-07	0.080558	1.670666	
1.00000	0.062812	0.381499	0.078728
4.72E-07	0.165191	1.374198	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.089786	-0.155125	-0.068126
-0.000574	-0.173692	-2.122597	
0.25000	-0.089786	-0.123524	-0.068126
-0.000574	-0.089001	-2.088617	
0.50000	-0.089786	-0.093640	-0.068126
-0.000574	-0.207406	-2.108891	
0.75000	-0.089786	-0.061859	-0.068126
-0.000574	-0.095615	-2.130920	
1.00000	-0.089786	-0.037794	-0.068126
-0.000574	-0.193504	-2.208307	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.127616	0.958788	0.126768
2.46E-06	0.318785	5.584155	
0.25000	0.127616	1.683993	0.126768
2.46E-06	0.161419	6.763289	
0.50000	0.127616	2.637575	0.126768
2.46E-06	0.016610	6.924144	
0.75000	0.127616	3.533906	0.126768
2.46E-06	0.151772	5.694977	
1.00000	0.127616	4.483728	0.126768
2.46E-06	0.303513	3.528028	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.145403	-3.971933	-0.122333
-0.001029	-0.306208	-6.239193	
0.25000	-0.145403	-3.023897	-0.122333
-0.001029	-0.154244	-4.663444	
0.50000	-0.145403	-2.127393	-0.122333
-0.001029	-0.014415	-4.715305	
0.75000	-0.145403	-1.173956	-0.122333
-0.001029	-0.154547	-4.809094	
1.00000	-0.145403	-0.452007	-0.122333
-0.001029	-0.312019	-6.521013	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.103158	1.646494	0.131689
3.63E-06	0.331623	9.773742	
0.25000	0.103158	2.799569	0.131689
3.63E-06	0.168323	11.612103	
0.50000	0.103158	4.315765	0.131689
3.63E-06	0.027257	11.843994	
0.75000	0.103158	5.740932	0.131689
3.63E-06	0.213010	9.969033	
1.00000	0.103158	7.251148	0.131689
3.63E-06	0.419601	6.594939	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.195631	-6.387708	-0.166777
-0.001170	-0.411843	-9.231035	
0.25000	-0.195631	-4.880332	-0.166777
-0.001170	-0.204799	-6.765934	
0.50000	-0.195631	-3.454889	-0.166777
-0.001170	-0.020224	-6.889212	
0.75000	-0.195631	-1.938925	-0.166777
-0.001170	-0.160382	-7.065967	
1.00000	-0.195631	-0.791025	-0.166777
-0.001170	-0.323845	-9.840868	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.134602	7.277821	0.166622
0.000480	0.413984	18.074109	
0.25000	0.134602	19.570041	0.166622
0.000480	0.211408	48.539160	
0.50000	0.134602	35.733261	0.166622
0.000480	0.054535	59.931433	
0.75000	0.134602	50.926072	0.166622
0.000480	0.269302	46.356962	
1.00000	0.134602	67.025546	0.166622
0.000480	0.519929	14.241233	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.239836	-65.914930	-0.204781
-0.000982	-0.516969	-49.042364	
0.25000	-0.239836	-49.845724	-0.204781
-0.000982	-0.262865	-21.412714	
0.50000	-0.239836	-34.649971	-0.204781
-0.000982	-0.042714	-21.371362	
0.75000	-0.239836	-18.489226	-0.204781
-0.000982	-0.216532	-21.891795	
1.00000	-0.239836	-6.252174	-0.204781
-0.000982	-0.420911	-50.099062	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.207910	0.752049	0.170779
0.001064	0.414059	5.705623	
0.25000	0.207910	0.760221	0.170779
0.001064	0.201267	5.124896	
0.50000	0.207910	0.779672	0.170779
0.001064	0.015953	4.580921	
0.75000	0.207910	0.800860	0.170779
0.001064	0.301156	4.061905	
1.00000	0.207910	0.819451	0.170779
0.001064	0.590746	3.598989	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.036021	-0.174593	-0.232977
-5.07E-06	-0.567563	-3.429186	
0.25000	-0.036021	-0.155998	-0.232977
-5.07E-06	-0.277959	-3.565941	
0.50000	-0.036021	-0.134814	-0.232977
-5.07E-06	-0.011142	-3.730551	
0.75000	-0.036021	-0.115373	-0.232977
-5.07E-06	-0.222194	-3.895542	
1.00000	-0.036021	-0.107243	-0.232977
-5.07E-06	-0.435152	-4.102466	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.235989	13.787899	0.251248
0.001282	0.600617	20.812321	
0.25000	0.235989	26.797086	0.251248
0.001282	0.310356	59.951800	
0.50000	0.235989	57.764417	0.251248
0.001282	0.074566	81.978859	
0.75000	0.235989	91.494467	0.251248
0.001282	0.472157	58.108271	
1.00000	0.235989	121.092056	0.251248
0.001282	0.887163	17.514059	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.170474	-119.995349	-0.347775
-4.58E-05	-0.863684	-76.202510	
0.25000	-0.170474	-90.392216	-0.347775
-4.58E-05	-0.436139	-31.420919	
0.50000	-0.170474	-56.667062	-0.347775
-4.58E-05	-0.050045	-31.606352	
0.75000	-0.170474	-25.718315	-0.347775
-4.58E-05	-0.355175	-31.975705	
1.00000	-0.170474	-12.774104	-0.347775
-4.58E-05	-0.668655	-77.721917	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.226784	10.562429	0.256400
0.001117	0.614164	20.908701	
0.25000	0.226784	19.799606	0.256400
0.001117	0.311240	48.086954	
0.50000	0.226784	41.787967	0.256400
0.001117	0.070751	63.161866	
0.75000	0.226784	65.737997	0.256400
0.001117	0.518798	45.735897	
1.00000	0.226784	86.753772	0.256400
0.001117	0.985813	16.512721	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.208616	-85.338599	-0.385658
-0.000342	-0.947551	-57.713803	
0.25000	-0.208616	-64.318987	-0.385658
-0.000342	-0.471823	-26.075068	
0.50000	-0.208616	-40.372433	-0.385658
-0.000342	-0.047725	-26.360847	
0.75000	-0.208616	-18.397267	-0.385658
-0.000342	-0.354884	-26.785938	
1.00000	-0.208616	-9.206227	-0.385658
-0.000342	-0.674607	-59.428986	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.258280	9.031330	0.267962
0.000931	0.648467	19.781980	
0.25000	0.258280	16.698334	0.267962
0.000931	0.328692	42.105959	
0.50000	0.258280	34.949024	0.267962
0.000931	0.065834	54.388348	
0.75000	0.258280	54.827930	0.267962
0.000931	0.533457	39.737280	
1.00000	0.258280	72.271358	0.267962
0.000931	1.022447	15.317354	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.243018	-70.876709	-0.401911
-0.000638	-0.990479	-49.659284	
0.25000	-0.243018	-53.430013	-0.401911
-0.000638	-0.494005	-23.435293	
0.50000	-0.243018	-33.553992	-0.401911
-0.000638	-0.045748	-23.709145	
0.75000	-0.243018	-15.314254	-0.401911
-0.000638	-0.362155	-24.098699	
1.00000	-0.243018	-7.685545	-0.401911
-0.000638	-0.695924	-51.229917	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.020784	9.480964	0.063235
0.000166	0.143666	12.703104	
0.25000	0.020784	18.600470	0.063235
0.000166	0.080840	40.301350	
0.50000	0.020784	40.308725	0.063235
0.000166	0.046957	55.891512	
0.75000	0.020784	63.953659	0.063235
0.000166	0.152842	39.429814	
1.00000	0.020784	84.701717	0.063235
0.000166	0.269673	11.246955	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.151253	-84.189585	-0.103655
-0.000165	-0.261218	-52.134844	
0.25000	-0.151253	-63.437639	-0.103655
-0.000165	-0.135532	-20.679224	
0.50000	-0.151253	-39.796137	-0.103655
-0.000165	-0.031056	-20.741458	
0.75000	-0.151253	-18.100910	-0.103655
-0.000165	-0.105504	-20.940838	
1.00000	-0.151253	-9.026953	-0.103655
-0.000165	-0.184232	-52.935419	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070571	9.497540	0.106131
4.67E-05	0.251739	16.250732	
0.25000	0.070571	18.200294	0.106131
4.67E-05	0.135327	42.226494	
0.50000	0.070571	38.916505	0.106131
4.67E-05	0.057244	56.773372	
0.75000	0.070571	61.480891	0.106131
4.67E-05	0.270857	40.691464	
1.00000	0.070571	81.280785	0.106131
4.67E-05	0.501345	13.463852	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.205835	-80.375712	-0.194855
-0.000555	-0.482557	-52.422695	
0.25000	-0.205835	-60.572108	-0.194855
-0.000555	-0.240436	-22.916505	
0.50000	-0.205835	-38.010997	-0.194855
-0.000555	-0.038711	-22.650888	
0.75000	-0.205835	-17.307219	-0.194855
-0.000555	-0.157476	-22.934941	
1.00000	-0.205835	-8.647932	-0.194855
-0.000555	-0.289541	-53.557534	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171983	7.219547	0.216546
0.000782	0.519754	17.859945	
0.25000	0.171983	12.875412	0.216546
0.000782	0.259996	33.882612	
0.50000	0.171983	26.338031	0.216546
0.000782	0.057012	42.528032	
0.75000	0.171983	41.001704	0.216546
0.000782	0.443294	31.613375	
1.00000	0.171983	53.868847	0.216546
0.000782	0.846882	13.626562	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.237610	-52.520355	-0.330937
-0.000504	-0.808440	-38.096964	
0.25000	-0.237610	-39.651382	-0.330937
-0.000504	-0.399273	-19.002541	
0.50000	-0.237610	-24.989837	-0.330937
-0.000504	-0.038818	-19.525656	
0.75000	-0.237610	-11.535297	-0.330937
-0.000504	-0.259512	-19.927563	
1.00000	-0.237610	-5.907980	-0.330937
-0.000504	-0.565770	-40.063077	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.199732	6.257694	0.241812
0.000651	0.587447	17.117438	
0.25000	0.199732	11.007437	0.241812
0.000651	0.294925	30.394247	
0.50000	0.199732	22.313820	0.241812
0.000651	0.054374	37.473917	
0.75000	0.199732	34.628890	0.241812
0.000651	0.470902	28.121393	
1.00000	0.199732	45.435170	0.241812
0.000651	0.908143	12.832636	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.289118	-44.119847	-0.357951
-0.000772	-0.879957	-33.710278	
0.25000	-0.289118	-33.311542	-0.357951
-0.000772	-0.436817	-17.696604	
0.50000	-0.289118	-20.998259	-0.357951
-0.000772	-0.038638	-18.158035	
0.75000	-0.289118	-9.698662	-0.357951
-0.000772	-0.321481	-18.518995	
1.00000	-0.289118	-4.972643	-0.357951
-0.000772	-0.622487	-35.453240	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.096148	0.319135	0.098361
2.75E-07	0.247061	3.259879	
0.25000	0.096148	0.327307	0.098361
2.75E-07	0.124955	3.002268	
0.50000	0.096148	0.346759	0.098361
2.75E-07	0.010212	2.737645	
0.75000	0.096148	0.367546	0.098361
2.75E-07	0.153100	2.453670	
1.00000	0.096148	0.386538	0.098361
2.75E-07	0.309318	2.164677	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.166770	-0.113456	-0.125437
-0.000544	-0.314857	-2.751440	
0.25000	-0.166770	-0.094861	-0.125437
-0.000544	-0.158734	-2.756515	
0.50000	-0.166770	-0.073677	-0.125437
-0.000544	-0.009624	-2.789936	
0.75000	-0.166770	-0.054237	-0.125437
-0.000544	-0.120211	-2.823468	
1.00000	-0.166770	-0.046106	-0.125437
-0.000544	-0.242325	-2.886028	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.184439	0.969110	0.155827
1.67E-06	0.390835	6.732343	
0.25000	0.184439	1.238773	0.155827
1.67E-06	0.198028	6.946008	
0.50000	0.184439	1.880684	0.155827
1.67E-06	0.020477	6.834132	
0.75000	0.184439	2.579862	0.155827
1.67E-06	0.274808	5.858959	
1.00000	0.184439	3.193380	0.155827
1.67E-06	0.549053	4.574293	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.234733	-2.614709	-0.221173
-0.000958	-0.551559	-6.410005	
0.25000	-0.234733	-2.001076	-0.221173
-0.000958	-0.276833	-5.573101	
0.50000	-0.234733	-1.301999	-0.221173
-0.000958	-0.017717	-5.668306	
0.75000	-0.234733	-0.660474	-0.221173
-0.000958	-0.191984	-5.767614	
1.00000	-0.234733	-0.392158	-0.221173
-0.000958	-0.385299	-6.807619	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.153949	1.257397	0.168162
0.000117	0.415261	10.369369	
0.25000	0.153949	1.264752	0.168162
0.000117	0.206702	9.354184	
0.50000	0.153949	1.282258	0.168162
0.000117	0.030361	8.381609	
0.75000	0.153949	1.301327	0.168162
0.000117	0.336745	7.624168	
1.00000	0.153949	1.318059	0.168162
0.000117	0.664372	6.992913	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.294578	-0.346220	-0.263887
-0.001061	-0.648047	-6.876365	
0.25000	-0.294578	-0.329484	-0.263887
-0.001061	-0.320166	-7.035349	
0.50000	-0.294578	-0.310419	-0.263887
-0.001061	-0.023793	-7.256483	
0.75000	-0.294578	-0.292922	-0.263887
-0.001061	-0.212154	-7.459471	
1.00000	-0.294578	-0.285605	-0.263887
-0.001061	-0.421089	-7.688212	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.184597	6.571893	0.227885
0.000434	0.555111	16.888371	
0.25000	0.184597	11.720002	0.227885
0.000434	0.280765	31.455432	
0.50000	0.184597	23.974661	0.227885
0.000434	0.054396	39.293222	
0.75000	0.184597	37.322608	0.227885
0.000434	0.437915	29.314691	
1.00000	0.184597	49.035222	0.227885
0.000434	0.846181	12.862444	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.341920	-47.811710	-0.334173
-0.000880	-0.824376	-35.780440	
0.25000	-0.341920	-36.096902	-0.334173
-0.000880	-0.410965	-18.351870	
0.50000	-0.341920	-22.750892	-0.334173
-0.000880	-0.039227	-18.602349	
0.75000	-0.341920	-10.503587	-0.334173
-0.000880	-0.302602	-18.930441	
1.00000	-0.341920	-5.381192	-0.334173
-0.000880	-0.586239	-37.217554	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.177861	11.899941	0.193729
0.001388	0.478349	21.840464	
0.25000	0.177861	34.429635	0.193729
0.001388	0.242197	79.160776	
0.50000	0.177861	64.054259	0.193729
0.001388	0.069036	101.160775	
0.75000	0.177861	91.900276	0.193729
0.001388	0.319080	76.994368	
1.00000	0.177861	121.408063	0.193729
0.001388	0.611654	18.628174	

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.239836 -120.382253 -0.238545
-0.001170 -0.598029 -83.413013
0.25000 -0.239836 -90.929943 -0.238545
-0.001170 -0.301959 -32.619098
0.50000 -0.239836 -63.078532 -0.238545
-0.001170 -0.055178 -32.389050
0.75000 -0.239836 -33.458445 -0.238545
-0.001170 -0.253647 -33.187398
1.00000 -0.239836 -11.029866 -0.238545
-0.001170 -0.481546 -84.730043
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.258280 13.787899 0.267962
0.001282 0.648467 20.908701
0.25000 0.258280 26.797086 0.267962
0.001282 0.328692 59.951800
0.50000 0.258280 57.764417 0.267962
0.001282 0.074566 81.978859
0.75000 0.258280 91.494467 0.267962
0.001282 0.533457 58.108271
1.00000 0.258280 121.092056 0.267962
0.001282 1.022447 17.514059

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.341920 -119.995349 -0.401911
-0.001061 -0.990479 -76.202510
0.25000 -0.341920 -90.392216 -0.401911
-0.001061 -0.494005 -31.420919
0.50000 -0.341920 -56.667062 -0.401911
-0.001061 -0.050045 -31.600352
0.75000 -0.341920 -25.718315 -0.401911
-0.001061 -0.362155 -31.975705
1.00000 -0.341920 -12.774104 -0.401911
-0.001061 -0.695924 -77.721917

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.258280 13.787899 0.267962
0.001388 0.648467 21.840464
0.25000 0.258280 34.429635 0.267962
0.001388 0.328692 79.160776
0.50000 0.258280 64.054259 0.267962
0.001388 0.074566 101.165775
0.75000 0.258280 91.900276 0.267962
0.001388 0.533457 76.994368
1.00000 0.258280 121.408063 0.267962
0.001388 1.022447 18.628174

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.341920 -120.382253 -0.401911
-0.001170 -0.990479 -83.413013
0.25000 -0.341920 -90.929943 -0.401911
-0.001170 -0.494005 -32.619098
0.50000 -0.341920 -63.078532 -0.401911
-0.001170 -0.055178 -32.389050
0.75000 -0.341920 -33.458445 -0.401911
-0.001170 -0.362155 -33.187398
1.00000 -0.341920 -12.774104 -0.401911
-0.001170 -0.695924 -84.730043

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.258280 13.787899 0.267962
0.001388 0.648467 21.840464
0.25000 0.258280 34.429635 0.267962
0.001388 0.328692 79.160776
0.50000 0.258280 64.054259 0.267962
0.001388 0.074566 101.165775
0.75000 0.258280 91.900276 0.267962
0.001388 0.533457 76.994368
1.00000 0.258280 121.408063 0.267962
0.001388 1.022447 18.628174

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.341920 -120.382253 -0.401911
-0.001170 -0.990479 -83.413013
0.25000 -0.341920 -90.929943 -0.401911
-0.001170 -0.494005 -32.619098
0.50000 -0.341920 -63.078532 -0.401911
-0.001170 -0.055178 -32.389050
0.75000 -0.341920 -33.458445 -0.401911
-0.001170 -0.362155 -33.187398
1.00000 -0.341920 -12.774104 -0.401911
-0.001170 -0.695924 -84.730043
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 383 ========== LENGTH = 4.972683

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.059688 0.778247 0.135261
0.001200 0.330021 3.593223
0.25000 0.059688 0.802474 0.135261
0.001200 0.161881 2.840531
0.50000 0.059688 0.834317 0.135261
0.001200 0.019224 2.127180
0.75000 0.059688 0.864196 0.135261
0.001200 0.166025 1.515268
1.00000 0.059688 0.896142 0.135261
0.001200 0.329021 1.063554

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.106972 -0.149605 -0.131110
-8.01E-06 -0.322972 -3.217076
0.25000 -0.106972 -0.118054 -0.131110
-8.01E-06 -0.159961 -3.250971
0.50000 -0.106972 -0.088118 -0.131110
-8.01E-06 -0.010231 -3.339035
0.75000 -0.106972 -0.056338 -0.131110
-8.01E-06 -0.174799 -3.427803
1.00000 -0.106972 -0.032399 -0.131110
-8.01E-06 -0.342872 -3.571831

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.185361 11.680183 0.197302
0.001473 0.477684 18.660563
0.25000 0.185361 34.259630 0.197302
0.001473 0.238228 75.727556
0.50000 0.185361 63.937572 0.197302
0.001473 0.057429 97.323697
0.75000 0.185361 91.784929 0.197302
0.001473 0.278970 70.303884
1.00000 0.185361 121.558148 0.197302
0.001473 0.527706 14.605632

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.152064 -120.154299 -0.212638
-8.23E-05 -0.550342 -84.754990
0.25000 -0.152064 -90.748378 -0.212638
-8.23E-05 -0.285973 -33.909123
0.50000 -0.152064 -62.848253 -0.212638
-8.23E-05 -0.058854 -33.270677
0.75000 -0.152064 -33.229655 -0.212638
-8.23E-05 -0.276190 -33.287186
1.00000 -0.152064 -10.918162 -0.212638
-8.23E-05 -0.517230 -84.805645

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.171087 8.797407 0.205180
0.001298 0.491417 16.965610
0.25000 0.171087 24.169359 0.205180
0.001298 0.240262 54.888577
0.50000 0.171087 44.373923 0.205180
0.001298 0.047852 68.781372
0.75000 0.171087 63.332236 0.205180
0.001298 0.326407 49.777166
1.00000 0.171087 83.601665 0.205180
0.001298 0.630634 11.479678

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.159042 -81.810688 -0.253308
-0.000516 -0.643151 -61.038881
0.25000 -0.159042 -61.791314 -0.253308
-0.000516 -0.328298 -26.444516
0.50000 -0.159042 -42.797076 -0.253308
-0.000516 -0.050752 -26.030895
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.159042 -22.632913 -0.253308
-0.000516 -0.286077 -26.063154
1.00000 -0.159042 -7.443382 -0.253308
-0.000516 -0.538354 -61.157803

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.184750 7.578388 0.214209
0.001082 0.518383 15.298303
0.25000 0.184750 20.333837
0.001082 0.255340 46.430513
0.50000 0.184750 37.099327 0.214209
0.001082 0.042081 57.685940
0.75000 0.184750 52.830693 0.214209
0.001082 0.333753 41.809707
1.00000 0.184750 69.650007 0.214209
0.001082 0.648122 10.030307

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.206132 -67.920937 -0.260025
-0.000868 -0.656750 -52.147529
0.25000 -0.206132 -51.309116 -0.260025
-0.000868 -0.333558 -23.402858
0.50000 -0.206132 -35.547940 -0.260025
-0.000868 -0.047186 -23.021177
0.75000 -0.206132 -18.815974 -0.260025
-0.000868 -0.290670 -23.009755
1.00000 -0.206132 -6.211896 -0.260025
-0.000868 -0.554654 -52.093182

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.135955 9.366040 0.055894
6.19E-05 0.130529 13.626580
0.25000 0.135955 28.263002 0.055894
6.19E-05 0.065826 61.858255
0.50000 0.135955 53.100765 0.055894
6.19E-05 0.044215 80.394065
0.75000 0.135955 76.406493 0.055894
6.19E-05 0.117936 68.145209
1.00000 0.135955 101.323994 0.055894
6.19E-05 0.213292 11.792202

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.053113 -100.617358 -0.087260
-0.000248 -0.237912 -68.990715
0.25000 -0.053113 -76.007253 -0.087260
-0.000248 -0.129457 -26.355891
0.50000 -0.053113 -52.657362 -0.087260
-0.000248 -0.042773 -25.739973
0.75000 -0.053113 -27.869265 -0.087260
-0.000248 -0.092721 -25.672477
1.00000 -0.053113 -9.196556 -0.087260
-0.000248 -0.158742 -68.707443

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.140014 9.236242 0.090579
5.77E-05 0.212613 15.266861
0.25000 0.140014 26.824953 0.090579
5.77E-05 0.104417 59.527440
0.50000 0.140014 49.943178 0.090579
5.77E-05 0.046604 76.217107
0.75000 0.140014 71.635432 0.090579
5.77E-05 0.203918 55.082591
1.00000 0.140014 94.827876 0.090579
5.77E-05 0.385881 11.698566

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.122068 -93.584288 -0.156223
-0.000792 -0.407216 -66.564029
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -0.122068 -70.677960 -0.156223
-0.000792 -0.213100 -26.870362
0.50000 -0.122068 -48.944600 -0.156223
-0.000792 -0.047502 -26.286912
0.75000 -0.122068 -25.872602 -0.156223
-0.000792 -0.138897 -26.214019
1.00000 -0.122068 -8.492620 -0.156223
-0.000792 -0.248351 -66.260495

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.209215 7.534529 0.175863
0.000910 0.420989 15.416893
0.25000 0.209215 19.984719 0.175863
0.000910 0.205544 45.725825
0.50000 0.209215 36.348984 0.175863
0.000910 0.042192 56.735474
0.75000 0.209215 51.703873 0.175863
0.000910 0.290742 41.243015
1.00000 0.209215 68.120673 0.175863
0.000910 0.563199 10.290488

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.160582 -66.406475 -0.226146
-0.000719 -0.572881 -50.535093
0.25000 -0.160582 -50.192202 -0.226146
-0.000719 -0.291828 -22.490098
0.50000 -0.160582 -34.808217 -0.226146
-0.000719 -0.044574 -22.129383
0.75000 -0.160582 -18.476674 -0.226146
-0.000719 -0.244872 -22.130141
1.00000 -0.160582 -6.174232 -0.226146
-0.000719 -0.461194 -50.529668

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.228974 6.481402 0.192647
0.000759 0.466753 13.814674
0.25000 0.228974 16.911072 0.192647
0.000759 0.229940 39.003858
0.50000 0.228974 30.619606 0.192647
0.000759 0.037300 48.228295
0.75000 0.228974 43.482575 0.192647
0.000759 0.300511 35.009102
1.00000 0.228974 57.235119 0.192647
0.000759 0.584656 9.071220

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.173270 -55.677424 -0.234408
-0.001003 -0.590738 -43.716053
0.25000 -0.173270 -42.094539 -0.234408
-0.001003 -0.299401 -20.159814
0.50000 -0.173270 -29.207196 -0.234408
-0.001003 -0.042027 -19.794964
0.75000 -0.173270 -15.526073 -0.234408
-0.001003 -0.260075 -19.732862
1.00000 -0.173270 -5.220174 -0.234408
-0.001003 -0.497655 -43.461062

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.095136 0.267855 0.073407
4.91E-07 0.184708 1.389372
0.25000 0.095136 0.292082 0.073407
4.91E-07 0.093441 1.157590
0.50000 0.095136 0.323925 0.073407
4.91E-07 0.003146 0.906136
0.75000 0.095136 0.353804 0.073407
4.91E-07 0.085311 0.801683
1.00000 0.095136 0.385750 0.073407
4.91E-07 0.176859 0.733540
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.081541 -0.232963 -0.067228
-0.000611 -0.165605 -2.201474
0.25000 -0.081541 -0.201412 -0.067228
-0.000611 -0.082026 -2.029825
0.50000 -0.081541 -0.171476 -0.067228
-0.000611 -0.007226 -1.913269
0.75000 -0.081541 -0.139697 -0.067228
-0.000611 -0.089075 -1.797632
1.00000 -0.081541 -0.115757 -0.067228
-0.000611 -0.180336 -1.738975

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.133778 1.019456 0.118717
2.78E-06 0.298536 3.555012
0.25000 0.133778 1.746262 0.118717
2.78E-06 0.151097 4.628014
0.50000 0.133778 2.701561 0.118717
2.78E-06 0.008047 4.684015
0.75000 0.133778 3.597935 0.118717
2.78E-06 0.163000 3.522791
1.00000 0.133778 4.556300 0.118717
2.78E-06 0.322438 1.700861

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.189492 -3.995954 -0.128712
-0.001141 -0.318533 -6.513860
0.25000 -0.189492 -3.049411 -0.128712
-0.001141 -0.158560 -4.743213
0.50000 -0.189492 -2.151339 -0.128712
-0.001141 -0.014707 -4.572386
0.75000 -0.189492 -1.197950 -0.128712
-0.001141 -0.144762 -4.432837
1.00000 -0.189492 -0.479769 -0.128712
-0.001141 -0.292216 -5.952803

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.165075 1.748378 0.137313
4.13E-06 0.334393 6.631958
0.25000 0.165075 2.904000 0.137313
4.13E-06 0.163937 8.279549
0.50000 0.165075 4.422925 0.137313
4.13E-06 0.014821 8.298019
0.75000 0.165075 5.848160 0.137313
4.13E-06 0.227273 6.289399
1.00000 0.165075 7.371961 0.137313
4.13E-06 0.450271 3.158565

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.161826 -6.315194 -0.180086
-0.001354 -0.446591 -9.843344
0.25000 -0.161826 -4.810101 -0.180086
-0.001354 -0.222808 -7.112239
0.50000 -0.161826 -3.382166 -0.180086
-0.001354 -0.021087 -6.951643
0.75000 -0.161826 -1.866278 -0.180086
-0.001354 -0.178446 -6.829500
1.00000 -0.161826 -0.724370 -0.180086
-0.001354 -0.349036 -9.336228

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.253411 7.221772 0.180013
0.000503 0.436892 14.283589
0.25000 0.253411 19.541138 0.180013
0.000503 0.216250 44.511417
0.50000 0.253411 35.733448 0.180013
0.000503 0.040032 55.566392
0.75000 0.253411 50.926990 0.180013
0.000503 0.283385 40.469820
1.00000 0.253411 67.171284 0.180013
0.000503 0.548481 9.990627
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.180352 -65.771764 -0.220150
-0.001121 -0.557768 -50.107869
0.25000 -0.180352 -49.727769 -0.220150
-0.001121 -0.284161 -22.234713
0.50000 -0.180352 -34.505437 -0.220150
-0.001121 -0.044754 -21.755376
0.75000 -0.180352 -18.345504 -0.220150
-0.001121 -0.244190 -21.634202
1.00000 -0.180352 -6.172334 -0.220150
-0.001121 -0.465743 -49.613596

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.092491 0.878668 0.195768
0.001232 0.473497 3.659109
0.25000 0.092491 0.887106 0.195768
0.001232 0.229404 2.927167
0.50000 0.092491 0.906594 0.195768
0.001232 0.008376 2.338168
0.75000 0.092491 0.927789 0.195768
0.001232 0.320922 1.880306
1.00000 0.092491 0.946326 0.195768
0.001232 0.635982 1.585868

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.187937 -0.094805 -0.253373
-6.43E-06 -0.623790 -4.147051
0.25000 -0.187937 -0.076178 -0.253373
-6.43E-06 -0.308715 -4.326980
0.50000 -0.187937 -0.054969 -0.253373
-6.43E-06 -0.014296 -4.722458
0.75000 -0.187937 -0.035538 -0.253373
-6.43E-06 -0.255861 -5.251823
1.00000 -0.187937 -0.027497 -0.253373
-6.43E-06 -0.499807 -5.955090

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.267872 13.543902 0.297848
0.001450 0.711074 17.597846
0.25000 0.267872 26.976809 0.297848
0.001450 0.352983 56.406471
0.50000 0.267872 58.002145 0.297848
0.001450 0.061082 77.816042
0.75000 0.267872 91.743296 0.297848
0.001450 0.501472 53.496215
1.00000 0.267872 121.254369 0.297848
0.001450 0.957226 13.145358

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.236775 -119.499457 -0.382830
-5.56E-05 -0.962856 -77.774814
0.25000 -0.236775 -89.845075 -0.382830
-5.56E-05 -0.489785 -33.315477
0.50000 -0.236775 -56.080630 -0.382830
-5.56E-05 -0.055594 -33.449957
0.75000 -0.236775 -25.145536 -0.382830
-5.56E-05 -0.416584 -33.899218
1.00000 -0.236775 -12.343749 -0.382830
-5.56E-05 -0.788240 -80.478215

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.255583 10.461247 0.309461
0.001286 0.735318 16.603336
0.25000 0.255583 19.999286 0.309461
0.001286 0.364286 43.347240
0.50000 0.255583 42.028834 0.309461
0.001286 0.052728 57.892114
0.75000 0.255583 65.986747 0.309461
0.001286 0.554227 40.154771
1.00000 0.255583 86.941092 0.309461
0.001286 1.072648 11.234395
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.246837 -84.862262 -0.428411
-0.000423 -1.068337 -59.482176
0.25000 -0.246837 -63.806161 -0.428411
-0.000423 -0.538262 -27.998338
0.50000 -0.246837 -39.831708 -0.428411
-0.000423 -0.053601 -28.338666
0.75000 -0.246837 -17.866237 -0.428411
-0.000423 -0.429396 -29.077324
1.00000 -0.246837 -8.776325 -0.428411
-0.000423 -0.815114 -62.713539

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.272029 8.985506 0.311659
0.001071 0.746334 15.396298
0.25000 0.272029 16.902230 0.311659
0.001071 0.370169 37.267492
0.50000 0.272029 35.187105 0.311659
0.001071 0.046892 49.025037
0.75000 0.272029 55.072555 0.311659
0.001071 0.560330 34.096816
1.00000 0.272029 72.464994 0.311659
0.001071 1.092350 10.005278

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.305330 -70.476381 -0.437402
-0.000770 -1.091426 -51.266731
0.25000 -0.305330 -52.999919 -0.437402
-0.000770 -0.549695 -25.100029
0.50000 -0.305330 -33.100741 -0.437402
-0.000770 -0.050985 -25.358762
0.75000 -0.305330 -14.869050 -0.437402
-0.000770 -0.425086 -26.004512
1.00000 -0.305330 -7.324279 -0.437402
-0.000770 -0.813264 -54.090676

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.175195 9.226777 0.087753
5.11E-05 0.202167 11.269329
0.25000 0.175195 18.643312 0.087753
5.11E-05 0.107297 38.693143
0.50000 0.175195 40.392228 0.087753
5.11E-05 0.040106 53.868387
0.75000 0.175195 64.044945 0.087753
5.11E-05 0.164612 37.059420
1.00000 0.175195 84.732356 0.087753
5.11E-05 0.300014 8.979028

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.052364	-83.866385	-0.120272
-0.000194	-0.309884	-52.943098	
0.25000	-0.052364	-63.078514	-0.120272
-0.000194	-0.162252	-21.644736	
0.50000	-0.052364	-39.409468	-0.120272
-0.000194	-0.033127	-21.527710	
0.75000	-0.052364	-17.723812	-0.120272
-0.000194	-0.136787	-21.585958	
1.00000	-0.052364	-8.749695	-0.120272
-0.000194	-0.246336	-53.929946	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.184027	9.327106	0.136445
4.88E-05	0.317148	13.498799	
0.25000	0.184027	18.313318	0.136445
4.88E-05	0.161430	39.109236	
0.50000	0.184027	39.068332	0.136445
4.88E-05	0.044424	53.128994	
0.75000	0.184027	61.640145	0.136445
4.88E-05	0.256948	36.664919	
1.00000	0.184027	81.382163	0.136445
4.88E-05	0.545919	9.607430	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3990
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.134705	-79.963292	-0.219111
-0.000687	-0.553276	-53.563550	
0.25000	-0.134705	-60.125404	-0.219111
-0.000687	-0.283516	-23.709211	
0.50000	-0.134705	-37.538009	-0.219111
-0.000687	-0.041809	-23.693759	
0.75000	-0.134705	-16.843363	-0.219111
-0.000687	-0.202049	-23.990968	
1.00000	-0.134705	-8.279354	-0.219111
-0.000687	-0.371587	-55.266464	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.267618	7.183156	0.264114
0.000880	0.627137	13.700585	
0.25000	0.267618	13.022927	0.264114
0.000880	0.307355	29.339968	
0.50000	0.267618	26.510763	0.264114
0.000880	0.039691	37.600991	
0.75000	0.267618	41.179262	0.264114
0.000880	0.474730	26.523212	
1.00000	0.267618	54.008793	0.264114
0.000880	0.925191	8.863487	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206066	-52.132520	-0.369319
-0.000625	-0.917043	-40.105212	
0.25000	-0.206066	-39.240687	-0.369319
-0.000625	-0.459551	-20.869029	
0.50000	-0.206066	-24.562061	-0.369319
-0.000625	-0.043437	-21.296332	
0.75000	-0.206066	-11.113456	-0.369319
-0.000625	-0.363686	-21.938041	
1.00000	-0.206066	-5.548056	-0.369319
-0.000625	-0.691507	-42.885620	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.299760	6.235379	0.279629
0.000733	0.670881	12.894843	
0.25000	0.299760	11.139824	0.279629
0.000733	0.330508	25.799202	
0.50000	0.299760	22.467385	0.279629
0.000733	0.036176	32.505907	
0.75000	0.299760	34.786509	0.279629
0.000733	0.417049	23.019870	
1.00000	0.299760	45.561201	0.279629
0.000733	0.967696	8.067455	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.249731	-43.842765	-0.387469
-0.000917	-0.964002	-35.478835	
0.25000	-0.249731	-33.015749	-0.387469
-0.000917	-0.483737	-19.248531	
0.50000	-0.249731	-20.688121	-0.387469
-0.000917	-0.045644	-19.159432	
0.75000	-0.249731	-9.393508	-0.387469
-0.000917	-0.377089	-20.012954	
1.00000	-0.249731	-4.719489	-0.387469
-0.000917	-0.724385	-37.606965	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.146363	0.306464	0.095785
2.93E-07	0.238810	2.163126	
0.25000	0.146363	0.314902	0.095785
2.93E-07	0.119921	1.860546	
0.50000	0.146363	0.334390	0.095785
2.93E-07	0.004577	1.553406	
0.75000	0.146363	0.355584	0.095785
2.93E-07	0.145534	1.284144	
1.00000	0.146363	0.374121	0.095785
2.93E-07	0.293690	1.099168	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3991
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.124481	-0.210158	-0.119174
-0.000594	-0.298687	-2.870461	
0.25000	-0.124481	-0.191531	-0.119174
-0.000594	-0.150562	-2.694862	
0.50000	-0.124481	-0.170322	-0.119174
-0.000594	-0.009279	-2.547643	
0.75000	-0.124481	-0.150891	-0.119174
-0.000594	-0.118769	-2.417116	
1.00000	-0.124481	-0.142849	-0.119174
-0.000594	-0.237750	-2.388424	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.200856	1.016349	0.155088
1.75E-06	0.384698	4.581108	
0.25000	0.200856	1.294795	0.155088
1.75E-06	0.192612	4.594325	
0.50000	0.200856	1.937908	0.155088
1.75E-06	0.000911	4.296423	
0.75000	0.200856	2.637316	0.155088
1.75E-06	0.267335	3.282165	
1.00000	0.200856	3.249041	0.155088
1.75E-06	0.537602	2.186019	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251658	-2.640049	-0.217537
-0.001120	-0.545029	-6.786161	
0.25000	-0.251658	-2.026354	-0.217537
-0.001120	-0.274626	-5.715510	
0.50000	-0.251658	-1.325463	-0.217537
-0.001120	-0.018158	-5.587801	
0.75000	-0.251658	-0.684221	-0.217537
-0.001120	-0.194798	-5.572730	
1.00000	-0.251658	-0.418857	-0.217537
-0.001120	-0.387306	-6.770228	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.241194	1.318865	0.186647
2.72E-06	0.452159	7.078614	
0.25000	0.241194	1.326459	0.186647
2.72E-06	0.220253	5.716140	
0.50000	0.241194	1.343998	0.186647
2.72E-06	0.014979	4.561764	
0.75000	0.241194	1.363073	0.186647
2.72E-06	0.342760	3.803981	
1.00000	0.241194	1.379756	0.186647
2.72E-06	0.685542	3.439805	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.223912	-0.289484	-0.275735
-0.001247	-0.684567	-7.678825	
0.25000	-0.223912	-0.272720	-0.275735
-0.001247	-0.341801	-7.562987	
0.50000	-0.223912	-0.253632	-0.275735
-0.001247	-0.025197	-7.625648	
0.75000	-0.223912	-0.236143	-0.275735
-0.001247	-0.243209	-7.912077	
1.00000	-0.223912	-0.228906	-0.275735
-0.001247	-0.474957	-8.539619	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.337165	6.495677	0.260629
0.000471	0.626772	12.910490	
0.25000	0.337165	11.811463	0.260629
0.000471	0.310799	27.140524	
0.50000	0.337165	24.089077	0.260629
0.000471	0.036666	34.605491	
0.75000	0.337165	37.441417	0.260629
0.000471	0.453765	24.469956	
1.00000	0.337165	49.119794	0.260629
0.000471	0.889919	8.346937	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3992
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.247931	-47.575110	-0.356962
-0.001035	-0.891425	-37.229325	
0.25000	-0.247931	-35.840021	-0.356962
-0.001035	-0.448490	-19.618464	
0.50000	-0.247931	-22.478463	-0.356962
-0.001035	-0.042229	-19.652337	
0.75000	-0.247931	-10.236560	-0.356962
-0.001035	-0.350865	-19.982221	
1.00000	-0.247931	-5.170527	-0.356962
-0.001035	-0.675041	-38.818903	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.253411	11.680183	0.214209
0.001473	0.518383	18.660563	
0.25000	0.253411	34.259630	0.214209
0.001473	0.255340	75.727556	
0.50000	0.253411	63.937572	0.214209
0.001473	0.057429	97.323697	
0.75000	0.253411	91.784929	0.214209
0.001473	0.333753	70.303884	
1.00000	0.253411	121.558148	0.214209
0.001473	0.648122	14.605632	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206132	-120.154299	-0.260025
-0.001354	-0.656750	-84.754990	
0.25000	-0.206132	-90.748378	-0.260025
-0.001354	-0.333558	-33.909123	
0.50000	-0.206132	-62.848253	-0.260025
-0.001354	-0.058854	-33.449957	
0.75000	-0.206132	-33.229655	-0.260025
-0.001354	-0.290670	-33.287186	
1.00000	-0.206132	-10.918162	-0.260025
-0.001354	-0.554654	-84.805645	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.337165	13.543902	0.311659
0.001450	0.746334	17.597846	
0.25000	0.337165	26.976809	0.311659
0.001450	0.370169	56.406471	
0.50000	0.337165	58.002143	0.311659
0.001450	0.061082	77.816042	
0.75000	0.337165	91.743296	0.311659
0.001450	0.560330	53.496215	
1.00000	0.337165	121.254369	0.311659
0.001450	1.092350	13.145358	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.305330	-119.499457	-0.437402
-0.001247	-1.091426	-77.774814	
0.25000	-0.305330	-89.845775	-0.437402
-0.001247	-0.549695	-33.315477	
0.50000	-0.305330	-56.080630	-0.437402
-0.001247	-0.055594	-33.449957	
0.75000	-0.305330	-25.145536	-0.437402
-0.001247	-0.429396	-33.899218	
1.00000	-0.305330	-12.343749	-0.437402
-0.001247	-0.815114	-80.478215	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.337165	13.543902	0.311659
0.001473	0.746334	18.660563	
0.25000	0.337165	34.259630	0.311659
0.001473	0.370169	75.727556	
0.50000	0.337165	63.937572	0.311659
0.001473	0.061082	97.323697	
0.75000	0.337165	91.784929	0.311659
0.001473	0.560330	70.303884	
1.00000	0.337165	121.558148	0.311659
0.001473	1.092350	14.605632	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3993
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.305330	-120.154299	-0.437402
-0.001354	-1.091426	-84.754990	
0.25000	-0.305330	-90.748378	-0.437402
-0.001354	-0.549695	-33.909123	
0.50000	-0.305330	-62.848253	-0.437402
-0.001354	-0.058854	-33.449957	
0.75000	-0.305330	-33.229655	-0.437402
-0.001354	-0.429396	-33.899218	
1.00000	-0.305330	-12.343749	-0.437402
-0.001354	-0.815114	-84.805645	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.337165	13.543902	0.311659
0.001473	0.746334	18.660563	
0.25000	0.337165	34.259630	0.311659
0.001473	0.370169	75.727556	
0.50000	0.337165	63.937572	0.311659
0.001473	0.061082	97.323697	
0.75000	0.337165	91.784929	0.311659
0.001473	0.560330	70.303884	
1.00000	0.337165	121.558148	0.311659
0.001473	1.092350	14.605632	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.305330	-120.154299	-0.437402
-0.001354	-1.091426	-84.754990	
0.25000	-0.305330	-90.748378	-0.437402
-0.001354	-0.549695	-33.909123	
0.50000	-0.305330	-62.848253	-0.437402
-0.001354	-0.058854	-33.449957	
0.75000	-0.305330	-33.229655	-0.437402
-0.001354	-0.429396	-33.899218	
1.00000	-0.305330	-12.343749	-0.437402
-0.001354	-0.815114	-84.805645	

ELEM 384 ========== LENGTH = 4.972600

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.092188	0.596702	0.144079
0.001056	0.355866	1.075442	
0.25000	0.092188	0.621810	0.144079
0.001056	0.176871	0.986275	
0.50000	0.092188	0.654414	0.144079
0.001056	0.000782	0.974295	
0.75000	0.092188	0.681891	0.144079
0.001056	0.163188	0.927631	
1.00000	0.092188	0.718170	0.144079
0.001056	0.327976	0.853451	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.245819	-0.233174	-0.132583
-0.000445	-0.331310	-3.602985	
0.25000	-0.245819	-0.202070	-0.132583
-0.000445	-0.166489	-3.482251	
0.50000	-0.245819	-0.171446	-0.132583
-0.000445	-0.010332	-3.409563	
0.75000	-0.245819	-0.139734	-0.132583
-0.000445	-0.181679	-3.339394	
1.00000	-0.245819	-0.117605	-0.132583
-0.000445	-0.360697	-3.333363	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.456826	7.987287	0.217871
0.001281	0.534655	14.622739	
0.25000	0.456826	31.387482	0.217871
0.001281	0.272151	71.786257	
0.50000	0.456826	61.774612	0.217871
0.001281	0.041239	91.986250	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3994
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.456826	87.382975	0.217871
0.001281	0.774294	66.461734	
1.00000	0.456826	121.195517	0.217871
0.001281	0.486795	15.276612	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.270925	-119.125510	-0.208266
-0.000596	-0.548849	-84.843138	
0.25000	-0.270925	-90.136080	-0.208266
-0.000596	-0.289943	-34.790006	
0.50000	-0.270925	-61.594974	-0.208266
-0.000596	-0.052047	-28.740921	
0.75000	-0.270925	-32.039264	-0.208266
-0.000596	-0.266686	-24.360754	
1.00000	-0.270925	-11.414981	-0.208266
-0.000596	-0.550978	-77.593873	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.392555	6.196571	0.238411
0.001132	0.580718	11.503051	
0.25000	0.392555	22.127283	0.238411
0.001132	0.289991	49.769881	
0.50000	0.392555	42.814659	0.238411
0.001132	0.030384	63.600740	
0.75000	0.392555	60.248679	0.238411
0.001132	0.289008	46.215162	
1.00000	0.392555	83.268054	0.238411
0.001132	0.577750	11.359995	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.240589	-81.099203	-0.243972
-0.000966	-0.635459	-61.205004	
0.25000	-0.240589	-61.363373	-0.243972
-0.000966	-0.332167	-27.185943	
0.50000	-0.240589	-41.932760	-0.243972
-0.000966	-0.045641	-23.125250	
0.75000	-0.240589	-21.811410	-0.243972
-0.000966	-0.314446	-20.198923	
1.00000	-0.240589	-7.770522	-0.243972
-0.000966	-0.606377	-56.489128	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.392227	5.326296	0.237280
0.001053	0.582189	10.039106	
0.25000	0.392227	18.545397	0.237280
0.001053	0.292192	41.780586	
0.50000	0.392227	35.711517	0.237280
0.001053	0.027641	53.259080	
0.75000	0.392227	50.178044	0.237280
0.001053	0.292755	38.834600	
1.00000	0.392227	69.279228	0.237280
0.001053	0.589094	9.914088	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.380646	-67.437287	-0.248081
-0.001193	-0.644539	-52.134385	
0.25000	-0.380646	-51.060747	-0.248081
-0.001193	-0.336145	-23.853203	
0.50000	-0.380646	-34.937473	-0.248081
-0.001193	-0.041864	-20.436553	
0.75000	-0.380646	-18.241033	-0.248081
-0.001193	-0.307414	-17.966063	
1.00000	-0.380646	-6.590084	-0.248081
-0.001193	-0.598705	-48.040241	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.401372	6.437544	0.071695
4.35E-05	0.171901	11.798750	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3995
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.401372	26.021398	0.071695
4.35E-05	0.089686	59.653173	
0.50000	0.401372	51.452687	0.071695
4.35E-05	0.034635	76.453704	
0.75000	0.401372	72.884579	0.071695
4.35E-05	0.087614	55.108083	
1.00000	0.401372	101.182629	0.071695
4.35E-05	0.167597	12.286862	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.029504	-99.690330	-0.078744
-0.000252	-0.223967	-68.715665	
0.25000	-0.029504	-75.428789	-0.078744
-0.000252	-0.126076	-26.921482	
0.50000	-0.029504	-51.542457	-0.078744
-0.000252	-0.036879	-21.958595	
0.75000	-0.029504	-26.806990	-0.078744
-0.000252	-0.102663	-18.395130	
1.00000	-0.029504	-9.546324	-0.078744
-0.000252	-0.186385	-63.045762	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.368468	6.363292	0.114515
3.96E-05	0.275625	11.706649	
0.25000	0.368468	24.591340	0.114515
3.96E-05	0.139645	56.031447	
0.50000	0.368468	48.262002	0.114515
3.96E-05	0.034923	71.880501	
0.75000	0.368468	68.210147	0.114515
3.96E-05	0.159324	52.011780	
1.00000	0.368468	94.549102	0.114515
3.96E-05	0.318484	12.154226	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.167778	-92.859793	-0.141416
-0.000756	-0.384732	-66.277690	
0.25000	-0.167778	-70.277897	-0.141416
-0.000756	-0.208934	-27.376367	
0.50000	-0.167778	-48.045233	-0.141416
-0.000756	-0.041182	-22.756822	
0.75000	-0.167778	-25.022223	-0.141416
-0.000756	-0.158114	-19.437642	
1.00000	-0.167778	-8.956526	-0.141416
-0.000756	-0.295439	-60.991106	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.481000	5.460571	0.205239
0.000794	0.499555	10.305801	
0.25000	0.481000	18.363318	0.205239
0.000794	0.248966	40.780770	
0.50000	0.481000	35.118625	0.205239
0.000794	0.026326	51.850289	
0.75000	0.481000	49.238945	0.205239
0.000794	0.250384	37.770787	
1.00000	0.481000	67.883006	0.205239
0.000794	0.509071	9.542168	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261299	-65.815260	-0.215383
-0.001049	-0.561977	-50.570800	
0.25000	-0.261299	-49.830637	-0.215383
-0.001049	-0.294228	-23.077813	
0.50000	-0.261299	-34.093218	-0.215383
-0.001049	-0.039882	-19.856201	
0.75000	-0.261299	-17.796352	-0.215383
-0.001049	-0.270766	-17.557680	
1.00000	-0.261299	-6.424228	-0.215383
-0.001049	-0.522326	-47.025693	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 3996
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.486009	4.697339	0.212490
0.000859	0.521960	9.071913	
0.25000	0.486009	15.506120	0.212490
0.000859	0.261607	34.617786	
0.50000	0.486009	29.542235	0.212490
0.000859	0.024618	43.894153	
0.75000	0.486009	41.370991	0.212490
0.000859	0.260213	32.102246	
1.00000	0.486009	56.989338	0.212490
0.000859	0.525999	8.457457	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267957	-55.204556	-0.221708
-0.001234	-0.576497	-43.495034	
0.25000	-0.267957	-41.814092	-0.221708
-0.001234	-0.300883	-20.405098	
0.50000	-0.267957	-28.630674	-0.221708
-0.001234	-0.036944	-17.651433	
0.75000	-0.267957	-14.978599	-0.221708
-0.001234	-0.274603	-15.675688	
1.00000	-0.267957	-5.452039	-0.221708
-0.001234	-0.535769	-40.314840	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.151889	0.213995	0.065737
0.000323	0.167635	0.714269	
0.25000	0.151889	0.239102	0.065737
0.000323	0.085919	0.778269	
0.50000	0.151889	0.271707	0.065737
0.000323	0.004072	0.804006	
0.75000	0.151889	0.299183	0.065737
0.000323	0.072668	0.780833	
1.00000	0.151889	0.335463	0.065737
0.000323	0.149681	0.732828	

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.107044 -0.248477 -0.061954
-0.000542 -0.156391 -1.737041
0.25000 -0.107044 -0.217373 -0.061954
-0.000542 -0.081383 -1.596138
0.50000 -0.107044 -0.186749 -0.061954
-0.000542 -0.005469 -1.508489
0.75000 -0.107044 -0.155037 -0.061954
-0.000542 -0.077550 -1.428364
1.00000 -0.107044 -0.132908 -0.061954
-0.000542 -0.159263 -1.415330

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.214497 0.709573 0.106973
0.000361 0.272575 1.674920
0.25000 0.214497 1.462798 0.106973
0.000361 0.139839 3.539134
0.50000 0.214497 2.440925 0.106973
0.000361 0.007897 4.199197
0.75000 0.214497 3.265228 0.106973
0.000361 0.136969 3.383638
1.00000 0.214497 4.353615 0.106973
0.000361 0.282888 1.742111

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.378016 -4.175063 -0.117911
-0.001016 -0.303439 -5.955836
0.25000 -0.378016 -3.241927 -0.117911
-0.001016 -0.156871 -4.216549
0.50000 -0.378016 -2.323222 -0.117911
-0.001016 -0.011594 -3.904453
0.75000 -0.378016 -1.371458 -0.117911
-0.001016 -0.128304 -3.656456
1.00000 -0.378016 -0.707986 -0.117911
-0.001016 -0.260595 -5.270624
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3997

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.310936 1.423105 0.147151
0.000330 0.363540 3.144430
0.25000 0.310936 2.620733 0.147151
0.000330 0.180954 5.393108
0.50000 0.310936 4.175954 0.147151
0.000330 0.009531 6.434562
0.75000 0.310936 5.486596 0.147151
0.000330 0.189042 5.129538
1.00000 0.310936 7.217131 0.147151
0.000330 0.392445 2.511209

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.228013 -6.326297 -0.164461
-0.001245 -0.352366 -9.352584
0.25000 -0.228013 -4.842611 -0.164461
-0.001245 -0.220930 -6.775304
0.50000 -0.228013 -3.381869 -0.164461
-0.001245 -0.017886 -6.462875
0.75000 -0.228013 -1.869201 -0.164461
-0.001245 -0.185651 -6.245679
1.00000 -0.228013 -0.813644 -0.164461
-0.001245 -0.368277 -8.986501

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.571098 5.180657 0.196628
0.000706 0.483784 9.984257
0.25000 0.571098 17.947823 0.196628
0.000706 0.243843 40.510191
0.50000 0.571098 34.527068 0.196628
0.000706 0.028915 51.420839
0.75000 0.571098 48.499013 0.196628
0.000706 0.239078 37.500203
1.00000 0.571098 66.947165 0.196628
0.000706 0.483962 9.579124

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.247860 -65.197134 -0.205838
-0.001217 -0.539602 -49.639065
0.25000 -0.247860 -49.380476 -0.205838
-0.001217 -0.283731 -22.356724
0.50000 -0.247860 -33.808424 -0.205838
-0.001217 -0.198663 -19.095159
0.75000 -0.247860 -17.682803 -0.205838
-0.001217 -0.254307 -16.752090
1.00000 -0.247860 -6.430176 -0.205838
-0.001217 -0.495156 -45.847804

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.118100 0.645659 0.216559
0.001116 0.531713 1.630171
0.25000 0.118100 0.656740 0.216559
0.001116 0.261705 1.340454
0.50000 0.118100 0.676716 0.216559
0.001116 0.000689 1.213644
0.75000 0.118100 0.697963 0.216559
0.001116 0.300082 1.148937
1.00000 0.118100 0.715676 0.216559
0.001116 0.610503 1.105600

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.526687 -0.206467 -0.249544
-0.000407 -0.630121 -5.981907
0.25000 -0.526687 -0.187392 -0.249544
-0.000407 -0.319804 -6.231499
0.50000 -0.526687 -0.165843 -0.249544
-0.000407 -0.018197 -6.582929
0.75000 -0.526687 -0.146541 -0.249544
-0.000407 -0.276079 -7.025095
1.00000 -0.526687 -0.139647 -0.249544
-0.000407 -0.545295 -7.536894
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3998

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.591563 8.860274 0.331659
0.001324 0.820215 13.206880
0.25000 0.591563 26.500736 0.331659
0.001324 0.419865 53.322902
0.50000 0.591563 58.301685 0.331659
0.001324 0.043499 73.798656
0.75000 0.591563 92.127204 0.331659
0.001324 0.455152 48.765810
1.00000 0.591563 120.326660 0.331659
0.001324 0.900585 13.857877

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.521548 -119.431138 -0.376491
-0.000508 -0.976508 -80.512473
0.25000 -0.521548 -89.063203 -0.376491
-0.000508 -0.508692 -36.665344
0.50000 -0.521548 -54.757809 -0.376491
-0.000508 -0.059457 -31.797413
0.75000 -0.521548 -24.027992 -0.376491
-0.000508 -0.435887 -28.247488
1.00000 -0.521548 -13.054094 -0.376491
-0.000508 -0.845492 -76.303079

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.547563 7.101537 0.358015
0.001179 0.876861 11.290995
0.25000 0.547563 19.627151 0.358015
0.001179 0.440259 39.324922
0.50000 0.547563 42.207423 0.358015
0.001179 0.033608 53.679293
0.75000 0.547563 66.225241 0.358015
0.001179 0.499418 35.849703
1.00000 0.547563 86.248272 0.358015
0.001179 1.002595 11.038541

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.484673 -84.812613 -0.417764
-0.000820 -1.076747 -62.735113
0.25000 -0.484673 -63.249854 -0.417764
-0.000820 -0.557620 -32.129826
0.50000 -0.484673 -38.891300 -0.417764
-0.000820 -0.060648 -29.282919
0.75000 -0.484673 -17.071586 -0.417764
-0.000820 -0.470602 -27.486217
1.00000 -0.484673 -9.279567 -0.417764
-0.000820 -0.914279 -62.381651

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.538017 6.089121 0.352513
0.001070 0.866280 10.044472
0.25000 0.538017 16.485581 0.352513
0.001070 0.435230 33.265790
0.50000 0.538017 35.227566 0.352513
0.001070 0.030691 45.164234
0.75000 0.538017 55.162737 0.352513
0.001070 0.496145 30.372123
1.00000 0.538017 71.782172 0.352513
0.001070 1.001961 9.797850

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.602118 -70.521343 -0.417897
-0.001040 -1.077167 -54.094014
0.25000 -0.602118 -52.623910 -0.417897
-0.001040 -0.557760 -28.732041
0.50000 -0.602118 -32.405922 -0.417897
-0.001040 -0.058670 -26.448300
0.75000 -0.602118 -14.295212 -0.417897
-0.001040 -0.458573 -25.059825
1.00000 -0.602118 -7.827712 -0.417897
-0.001040 -0.895623 -54.142322
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
3999

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.538527 6.210385 0.105246
3.83E-05 0.259762 8.991665
0.25000 0.538527 18.576437 0.105246
3.83E-05 0.137595 37.105063
0.50000 0.538527 40.869062 0.105246
3.83E-05 0.031219 51.322074
0.75000 0.538527 64.588471 0.105246
3.83E-05 0.140589 33.798694
1.00000 0.538527 84.348881 0.105246
3.83E-05 0.270316 9.340830

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.026211 -83.711232 -0.117149
-0.000205 -0.315893 -53.932084
0.25000 -0.026211 -62.423157 -0.117149
-0.000205 -0.170394 -23.248664
0.50000 -0.026211 -38.374904 -0.117149
-0.000205 -0.034540 -1.864717
0.75000 -0.026211 -16.833147 -0.117149
-0.000205 -0.145740 -17.406130
1.00000 -0.026211 -9.140390 -0.117149
-0.000205 -0.274961 -51.130044

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.492710 6.306837 0.166774
3.61E-05 0.407133 9.618573
0.25000 0.492710 18.107774 0.166774
3.61E-05 0.208735 36.296100
0.50000 0.492710 39.381650 0.166774
3.61E-05 0.032760 49.903169
0.75000 0.492710 62.009902 0.166774
3.61E-05 0.242943 33.162701
1.00000 0.492710 80.874488 0.166774
3.61E-05 0.484369 9.834739

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.168051 -79.938215 -0.206749
-0.000646 -0.545565 -55.253391
0.25000 -0.168051 -59.619983 -0.206749
-0.000646 -0.288662 -26.201817
0.50000 -0.168051 -36.673708 -0.206749
-0.000646 -0.046857 -23.281633
0.75000 -0.168051 -16.116387 -0.206749
-0.000646 -0.225930 -21.297972
1.00000 -0.168051 -8.775180 -0.206749
-0.000646 -0.432284 -53.870552

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.607517 5.243570 0.308573
0.000789 0.753416 8.902506
0.25000 0.607517 12.912517 0.308573
0.000789 0.375275 25.526557
0.50000 0.607517 26.737540 0.308573
0.000789 0.023453 33.880752
0.75000 0.607517 41.442717 0.308573
0.000789 0.424344 22.923054
1.00000 0.607517 53.702041 0.308573
0.000789 0.858875 7.749206

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.331293 -52.042711 -0.357585
-0.000913 -0.919761 -42.904306
0.25000 -0.331293 -38.840671 -0.357585
-0.000913 -0.475505 -24.564533
0.50000 -0.331293 -23.926875 -0.357585
-0.000913 -0.050949 -23.285278
0.75000 -0.331293 -10.567512 -0.357585
-0.000913 -0.403464 -22.781290
1.00000 -0.331293 -5.796761 -0.357585
-0.000913 -0.787928 -44.815961
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.624257 4.536207 0.315648
0.000824 0.775175 8.089415
0.25000 0.624257 10.976859 0.315648
0.000824 0.387364 22.031491
0.50000 0.624257 22.587602 0.315648
0.000824 0.022678 29.046243
0.75000 0.624257 34.937528 0.315648
0.000824 0.432655 19.844251
1.00000 0.624257 45.233441 0.315648
0.000824 0.879963 7.098564

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.369315 -43.782735 -0.366604
-0.001104 -0.943307 -37.608015
0.25000 -0.369315 -32.695196 -0.366604
-0.001104 -0.487391 -22.248579
0.50000 -0.369315 -20.170064 -0.366604
-0.001104 -0.049715 -21.236690
0.75000 -0.369315 -8.950399 -0.366604
-0.001104 -0.407428 -20.887923
1.00000 -0.369315 -4.943755 -0.366604
-0.001104 -0.800445 -39.465678

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.253772 0.244446 0.093089
0.000280 0.234896 1.084042
0.25000 0.253772 0.255527 0.093089
0.000280 0.119227 1.028531
0.50000 0.253772 0.275502 0.093089
0.000280 0.004833 1.000988
0.75000 0.253772 0.296749 0.093089
0.000280 0.118177 0.971018
1.00000 0.253772 0.314463 0.093089
0.000280 0.245641 0.950303

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.132064 -0.202197 -0.102462
-0.000514 -0.263662 -2.372112
0.25000 -0.132064 -0.183122 -0.102462
-0.000514 -0.136086 -2.382785
0.50000 -0.132064 -0.161573 -0.102462
-0.000514 -0.009640 -2.467843
0.75000 -0.132064 -0.142270 -0.102462
-0.000514 -0.112531 -2.584577
1.00000 -0.132064 -0.135377 -0.102462
-0.000514 -0.228196 -2.750645

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.314557 0.713382 0.155653
0.000311 0.390177 2.166959
0.25000 0.314557 1.079045 0.155653
0.000311 0.197231 2.823071
0.50000 0.314557 1.738236 0.155653
0.000311 0.008718 3.190546
0.75000 0.314557 2.439393 0.155653
0.000311 0.217689 2.674936
1.00000 0.314557 3.023929 0.155653
0.000311 0.452398 1.994708

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.419047 -2.791131 -0.189283
-0.000962 -0.488014 -6.737764
0.25000 -0.419047 -2.160645 -0.189283
-0.000962 -0.252799 -5.916557
0.50000 -0.419047 -1.449541 -0.189283
-0.000962 -0.021488 -6.018996
0.75000 -0.419047 -0.812553 -0.189283
-0.000962 -0.191200 -6.215156
1.00000 -0.419047 -0.585079 -0.189283
-0.000962 -0.384454 -7.538683
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4001

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.487254 1.270103 0.208259
0.000278 0.511064 3.427975
0.25000 0.487254 1.280076 0.208259
0.000278 0.252560 2.820029
0.50000 0.487254 1.298054 0.208259
0.000278 0.008991 2.473583
0.75000 0.487254 1.317176 0.208259
0.000278 0.286949 2.404165
1.00000 0.487254 1.333118 0.208259
0.000278 0.595877 2.402478

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.283223 -0.314188 -0.248930
-0.001104 -0.639116 -8.505761
0.25000 -0.283223 -0.297020 -0.248930
-0.001104 -0.329875 -9.118656
0.50000 -0.283223 -0.277627 -0.248930
-0.001104 -0.031080 -9.905364
0.75000 -0.283223 -0.260254 -0.248930
-0.001104 -0.264189 -10.877219
1.00000 -0.283223 -0.254050 -0.248930
-0.001104 -0.523702 -11.977352

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.750208 4.732953 0.290919
0.000659 0.716121 8.357309
0.25000 0.750208 11.713789 0.290919
0.000659 0.359782 23.575526
0.50000 0.750208 24.298335 0.290919
0.000659 0.025011 31.203374
0.75000 0.750208 37.684062 0.290919
0.000659 0.392280 21.441772
1.00000 0.750208 48.843395 0.290919
0.000659 0.797599 7.457133

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.313358 -47.480774 -0.333636
-0.001086 -0.861208 -38.809011
0.25000 -0.313358 -35.463312 -0.333636
-0.001086 -0.446542 -22.044245
0.50000 -0.313358 -21.887685 -0.333636
-0.001086 -0.048211 -20.822900
0.75000 -0.313358 -9.727016 -0.333636
-0.001086 -0.374870 -20.300145
1.00000 -0.313358 -5.384330 -0.333636
-0.001086 -0.736511 -40.284104

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.571098 7.987287 0.238411
0.001281 0.582489 14.622739
0.25000 0.571098 31.387482 0.238411
0.001281 0.292192 71.786257
0.50000 0.571098 61.774612 0.238411
0.001281 0.041239 91.986250
0.75000 0.571098 87.382975 0.238411
0.001281 0.292755 66.461734
1.00000 0.571098 121.195517 0.238411
0.001281 0.589094 15.276612

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.380646 -119.125510 -0.248081
-0.001245 -0.644539 -84.843138
0.25000 -0.380646 -90.136080 -0.248081
-0.001245 -0.336145 -34.790006
0.50000 -0.380646 -61.594974 -0.248081
-0.001245 -0.052047 -28.740921
0.75000 -0.380646 -32.039264 -0.248081
-0.001245 -0.314446 -24.360754
1.00000 -0.380646 -11.414981 -0.248081
-0.001245 -0.606377 -77.593873
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4002

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.750208 8.860274 0.358015
0.001324 0.876861 13.206880
0.25000 0.750208 26.500736 0.358015
0.001324 0.440259 53.322902
0.50000 0.750208 58.301685 0.358015
0.001324 0.043499 73.798656
0.75000 0.750208 92.127204 0.358015
0.001324 0.499418 48.765810
1.00000 0.750208 120.326660 0.358015
0.001324 1.002595 13.857877

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.602118 -119.431138 -0.417897
-0.001104 -1.077167 -80.512473
0.25000 -0.602118 -89.063203 -0.417897
-0.001104 -0.557760 -36.665344
0.50000 -0.602118 -54.757809 -0.417897
-0.001104 -0.060648 -31.797413
0.75000 -0.602118 -24.027992 -0.417897
-0.001104 -0.470602 -28.247488
1.00000 -0.602118 -13.054094 -0.417897
-0.001104 -0.914279 -76.303079

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.750208 8.860274 0.358015
0.001324 0.876861 14.622739
0.25000 0.750208 31.387482 0.358015
0.001324 0.440259 71.786257
0.50000 0.750208 61.774612 0.358015
0.001324 0.043499 91.986250
0.75000 0.750208 92.127204 0.358015
0.001324 0.499418 66.461734
1.00000 0.750208 121.195517 0.358015
0.001324 1.002595 15.276612

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.602118 -119.431138 -0.417897
-0.001245 -1.077167 -84.843138
0.25000 -0.602118 -90.136080 -0.417897
-0.001245 -0.557760 -36.665344
0.50000 -0.602118 -61.594974 -0.417897
-0.001245 -0.060648 -31.797413
0.75000 -0.602118 -32.039264 -0.417897
-0.001245 -0.470602 -28.247488
1.00000 -0.602118 -13.054094 -0.417897
-0.001245 -0.914279 -77.593873

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.750208 8.860274 0.358015
0.001324 0.876861 14.622739
0.25000 0.750208 31.387482 0.358015
0.001324 0.440259 71.786257
0.50000 0.750208 61.774612 0.358015
0.001324 0.043499 91.986250
0.75000 0.750208 92.127204 0.358015
0.001324 0.499418 66.461734
1.00000 0.750208 121.195517 0.358015
0.001324 1.002595 15.276612

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.602118 -119.431138 -0.417897
-0.001245 -1.077167 -84.843138
0.25000 -0.602118 -90.136080 -0.417897
-0.001245 -0.557760 -36.665344
0.50000 -0.602118 -61.594974 -0.417897
-0.001245 -0.060648 -31.797413
0.75000 -0.602118 -32.039264 -0.417897
-0.001245 -0.470602 -28.247488
1.00000 -0.602118 -13.054094 -0.417897
-0.001245 -0.914279 -77.593873
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4003

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 385 ========== LENGTH = 3.481038

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.102749 0.167940 0.310560
0.000530 0.533451 0.897880
0.25000 0.102749 0.192376 0.310560
0.000530 0.263257 0.904168
0.50000 0.102749 0.223147 0.310560
0.000530 0.002585 0.881806
0.75000 0.102749 0.248516 0.310560
0.000530 0.237688 0.838909
1.00000 0.102749 0.267275 0.310560
0.000530 0.472975 0.775030

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.250956 -0.662737 -0.270374
-0.001040 -0.468227 -3.374674
0.25000 -0.250956 -0.644021 -0.270374
-0.001040 -0.232931 -3.213811

```
 0.50000    -0.250956    -0.618688    -0.270374
-0.001040    -0.010013    -3.287760
 0.75000    -0.250956    -0.587912    -0.270374
-0.001040    -0.277560    -3.363408
 1.00000    -0.250956    -0.563110    -0.270374
-0.001040    -0.547767    -3.475744

COMB DB-G1-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.466759   17.409495    0.482396
 0.000687    0.820153   15.313154
 0.25000    0.466759   40.183999    0.482396
 0.000687    0.403418   57.229621
 0.50000    0.466759   68.862621    0.482396
 0.000687    0.043643   72.443412
 0.75000    0.466759   92.506390    0.482396
 0.000687    0.334603   57.841228
 1.00000    0.466759  109.990558    0.482396
 0.000687    0.666804   16.711446

COMB DB-G1-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.291636  -111.565178   -0.390910
-0.001276   -0.713104   -77.659471
 0.25000   -0.291636   -94.121804   -0.390910
-0.001276   -0.372910   -42.844345
 0.50000   -0.291636   -70.511386   -0.390910
-0.001276   -0.073344   -42.568733
 0.75000   -0.291636   -41.827947   -0.390910
-0.001276   -0.464151   -42.302563
 1.00000   -0.291636   -18.713078   -0.390910
-0.001276   -0.883864   -76.100058

COMB DB-G1-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.390475    11.889160    0.540954
 0.001031    0.919605    11.397733
 0.25000    0.390475    27.393906    0.540954
 0.001031    0.450962    39.888964
 0.50000    0.390475    46.918140    0.540954
 0.001031    0.032215    50.201168
 0.75000    0.390475    63.014675    0.540954
 0.001031    0.379605    40.147947
 1.00000    0.390475    74.917792    0.540954
 0.001031    0.764060    12.131585

COMB DB-G1-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.261546   -76.686231   -0.448024
-0.001118   -0.808555   -56.573689
 0.25000   -0.261546   -64.810887   -0.448024
-0.001118   -0.418658   -32.586578
 0.50000   -0.261546   -48.737056   -0.448024
-0.001118   -0.059867   -32.369385
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4004

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST           P           V2           V3
       T          M2          M3
 0.75000   -0.261546   -29.209544   -0.448024
-0.001118   -0.509652   -32.152342
 1.00000   -0.261546   -13.473080   -0.448024
-0.001118   -0.980341   -55.124955

COMB DB-G1-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.390488    10.091959    0.521756
 0.001247    0.890933    9.934734
 0.25000    0.390488    22.957599    0.521756
 0.001247    0.438637    33.551600
 0.50000    0.390488    39.158559    0.521756
 0.001247    0.027864    42.083743
 0.75000    0.390488    52.515259    0.521756
 0.001247    0.376376    33.716915
 1.00000    0.390488    62.392313    0.521756
 0.001247    0.760481    10.457676

COMB DB-G1-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.395379   -63.814185   -0.446549
-0.001102   -0.404782   -48.114925
 0.25000   -0.395379   -53.960176   -0.446549
-0.001102   -0.416163   -28.098174
 0.50000   -0.395379   -40.622317   -0.446549
-0.001102   -0.053246   -27.926602
 0.75000   -0.395379   -24.418636   -0.446549
-0.001102   -0.485954   -27.796887
 1.00000   -0.395379   -11.360719   -0.446549
-0.001102   -0.939310   -46.916498

COMB DB-G2-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.394780    14.526941    0.171220
 0.000255    0.285644    12.277872
 0.25000    0.394780    33.587148    0.171220
 0.000255    0.139160    47.380943
 0.50000    0.394780    57.588570    0.171220
 0.000255    0.034874    60.136275
 0.75000    0.394780    77.376274    0.171220
 0.000255    0.363611    47.396528
 1.00000    0.394780    92.008946    0.171220
 0.000255    0.191051    13.832868

COMB DB-G2-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.036199   -93.193815   -0.119749
-0.000124   -0.241813   -63.078608
 0.25000   -0.036199   -78.595283   -0.119749
-0.000124   -0.137601   -33.940625
 0.50000   -0.036199   -58.835491   -0.119749
-0.000124   -0.054480   -33.613954
 0.75000   -0.036199   -34.830038   -0.119749
-0.000124   -0.182067   -33.289831
 1.00000   -0.036199   -15.484976   -0.119749
-0.000124   -0.331072   -61.474633

COMB DB-G2-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.352916    13.689194    0.269879
 0.000737    0.454441    12.140247
 0.25000    0.352916    31.429849    0.269879
 0.000737    0.221929    44.778228
 0.50000    0.352916    53.769634    0.269879
 0.000737    0.034183    56.615621
 0.75000    0.352916    72.187420    0.269879
 0.000737    0.176934    45.150944
 1.00000    0.352916    85.807061    0.269879
 0.000737    0.364293    13.149086

COMB DB-G2-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.173542   -87.039487   -0.222437
-9.88E-05   -0.424924   -61.039092
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4005

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST           P           V2           V3
       T          M2          M3
 0.25000   -0.173542   -73.451623   -0.222437
-9.88E-05   -0.231341   -33.726098
 0.50000   -0.173542   -55.059816   -0.222437
-9.88E-05   -0.057789   -33.429758
 0.75000   -0.173542   -32.716279   -0.222437
-9.88E-05   -0.270297   -33.146635
 1.00000   -0.173542   -14.710491   -0.222437
-9.88E-05   -0.504285   -59.402291

COMB DB-G2-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.454804    9.821593    0.465825
 0.001072    0.791957    9.564101
 0.25000    0.454804   22.379337    0.465825
 0.001072    0.388278   32.623473
 0.50000    0.454804   38.192582    0.465825
 0.001072    0.026844   40.959123
 0.75000    0.454804   51.229634    0.465825
 0.001072    0.323680   32.800222
 1.00000    0.454804   60.870314    0.465825
 0.001072    0.654873   10.606139

COMB DB-G2-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.279499   -62.670959   -0.385625
-0.000862   -0.698054   -47.099704
 0.25000   -0.279499   -53.052773   -0.385625
-0.000862   -0.362455   -27.512983
 0.50000   -0.279499   -40.034110   -0.385625
-0.000862   -0.051330   -27.265667
 0.75000   -0.279499   -24.218209   -0.385625
-0.000862   -0.438777   -27.033026
 1.00000   -0.279499   -11.472790   -0.385625
-0.000862   -0.843314   -45.589637

COMB DB-G2-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.465363    8.309565    0.464865
 0.001248    0.794424    8.462847
 0.25000    0.465363   18.829333    0.464865
 0.001248    0.391307   27.755767
 0.50000    0.465363   32.076272    0.464865
 0.001248    0.023566   34.714455
 0.75000    0.465363   42.997562    0.464865
 0.001248    0.327276   27.855466
 1.00000    0.465363   51.073672    0.464865
 0.001248    0.663908    9.225474

COMB DB-G2-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.279162   -52.611623   -0.391051
-0.000933   -0.706196   -40.378006
 0.25000   -0.279162   -44.554356   -0.391051
-0.000933   -0.046560   -23.871089
 0.50000   -0.279162   -33.648471   -0.391051
-0.000933   -0.045789   -23.656872
 0.75000   -0.279162   -20.399307   -0.391051
-0.000933   -0.431292   -23.511342
 1.00000   -0.279162    -9.722321   -0.391051
-0.000933   -0.835275   -39.108488

COMB DB-G3-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.153656    0.159178    0.121502
 0.000538    0.213012    0.712492
 0.25000    0.153656    0.183614    0.121502
 0.000538    0.107256    0.716832
 0.50000    0.153656    0.214385    0.121502
 0.000538    0.001725    0.695594
 0.75000    0.153656    0.239754    0.121502
 0.000538    0.085580    0.642474
 1.00000    0.153656    0.256514    0.121502
 0.000538    0.175406    0.563408
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4006

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.111147   -0.331387   -0.103208
-0.000360   -0.183885   -1.416168
 0.25000   -0.111147   -0.312671   -0.103208
-0.000360   -0.094055   -1.223529
 0.50000   -0.111147   -0.287338   -0.103208
-0.000360   -0.003977   -1.274515
 0.75000   -0.111147   -0.256562   -0.103208
-0.000360   -0.104210   -1.263181
 1.00000   -0.111147   -0.231760   -0.103208
-0.000360   -0.209967   -1.371819

COMB DB-G3-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.215258    1.085712    0.205629
 0.001013    0.358594    1.711563
 0.25000    0.215258    1.818797    0.205629
 0.001013    0.179717    2.996433
 0.50000    0.215258    2.741929    0.205629
 0.001013    0.004316    3.421775
 0.75000    0.215258    3.502995    0.205629
 0.001013    0.159229    2.884426
 1.00000    0.215258    4.065790    0.205629
 0.001013    0.327608    1.490815

COMB DB-G3-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.377739   -4.069801   -0.193747
-0.000476   -0.347442   -5.281077
 0.25000   -0.377739   -3.508319   -0.193747
-0.000476   -0.178814   -3.865767
 0.50000   -0.377739   -2.748327   -0.193747
-0.000476   -0.010631   -3.849285
 0.75000   -0.377739   -1.825041   -0.193747
-0.000476   -0.180098   -3.957277
 1.00000   -0.377739   -1.081000   -0.193747
-0.000476   -0.358011   -5.172901

COMB DB-G3-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.299020    1.240984    0.311604
 0.001222    0.536254    2.488571
 0.25000    0.299020    2.406589    0.311604
 0.001222    0.265210    4.547664
 0.50000    0.299020    3.874369    0.311604
 0.001222    0.006381    5.240106
 0.75000    0.299020    5.084463    0.311604
 0.001222    0.220508    4.401723
 1.00000    0.299020    5.979307    0.311604
 0.001222    0.455686    2.401673

COMB DB-G3-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.235180   -6.746566   -0.270681
-0.000419   -0.487546   -9.018955
 0.25000   -0.235180   -5.853810   -0.270681
-0.000419   -0.251966   -6.737136
 0.50000   -0.235180   -4.645423   -0.270681
-0.000419   -0.017315   -6.632070
 0.75000   -0.235180   -3.177397   -0.270681
-0.000419   -0.279262   -6.636198
 1.00000   -0.235180   -1.994372   -0.270681
-0.000419   -0.549730   -8.391523

COMB DB-G3-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.552983    9.783987    0.426538
 0.001254    0.729011    9.568240
 0.25000    0.552983   22.209776    0.426538
 0.001254    0.359461   32.375334
 0.50000    0.552983   37.856857    0.426538
 0.001254    0.026668   40.613421
 0.75000    0.552983   50.756918    0.426538
 0.001254    0.291994   32.626677
 1.00000    0.552983   60.296295    0.426538
 0.001254    0.594410   10.539426
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4007

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.262438   -61.780811   -0.352490
-0.000771   -0.643061   -45.902054
 0.25000   -0.262438   -52.263691   -0.352490
-0.000771   -0.336289   -26.498653
 0.50000   -0.262438   -39.381827   -0.352490
-0.000771   -0.048987   -26.231719
 0.75000   -0.262438   -23.732118   -0.352490
-0.000771   -0.398725   -26.055906
 1.00000   -0.262438   -11.120626   -0.352490
-0.000771   -0.769304   -44.475733

COMB DL-G1-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.132368    0.237914    0.477671
 0.000507    0.819759    1.160542
 0.25000    0.132368    0.242827    0.477671
 0.000507    0.403985    1.123033
 0.50000    0.132368    0.261070    0.477671
 0.000507    0.030065    1.083717
 0.75000    0.132368    0.280487    0.477671
 0.000507    0.409316    1.066601
 1.00000    0.132368    0.297760    0.477671
 0.000507    0.824288    1.080652

COMB DL-G1-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.557477   -0.644008   -0.476973
-0.001090   -0.834843   -7.570739
 0.25000   -0.557477   -0.626726   -0.476973
-0.001090   -0.419861   -7.310352
 0.50000   -0.557477   -0.607290   -0.476973
-0.001090   -0.020262   -7.077236
 0.75000   -0.557477   -0.589031   -0.476973
-0.001090   -0.427459   -6.877762
 1.00000   -0.557477   -0.584050   -0.476973
-0.001090   -0.843133   -6.737828

COMB DL-G1-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.616548   20.200341    0.741535
 0.000610    1.260928   13.930377
 0.25000    0.616548   28.021528    0.741535
 0.000610    0.626060   39.418725
 0.50000    0.616548   57.065084    0.741535
 0.000610    0.043699   54.540467
 0.75000    0.616548   87.976469    0.741535
 0.000610    0.601363   39.917485
 1.00000    0.616548  115.475242    0.741535
 0.000610    1.199627   14.766254

COMB DL-G1-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.563613  -117.119736   -0.704387
-0.001282   -1.287467   -76.376120
 0.25000   -0.563613   -89.607109   -0.704387
-0.001282   -0.655032   -46.494857
 0.50000   -0.563613   -58.664948   -0.704387
-0.001282   -0.074918   -45.513081
 0.75000   -0.563613   -29.596460   -0.704387
-0.001282   -0.692679   -44.593917
 1.00000   -0.563613   -21.666892   -0.704387
-0.001282   -1.339786   -72.652669

COMB DL-G1-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.567262   14.441975    0.814156
 0.000907    1.385006   11.102472
 0.25000    0.567262   19.995411    0.814156
 0.000907    0.683194   29.157571
 0.50000    0.567262   40.617795    0.814156
 0.000907    0.033842   39.651159
 0.75000    0.567262   62.566431    0.814156
 0.000907    0.651438   29.419037
 1.00000    0.567262   82.091942    0.814156
 0.000907    1.311608   11.745698
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4008

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.516423   -83.951498   -0.770134
-0.001133   -1.378412   -62.440661
 0.25000   -0.516423   -64.416150   -0.770134
-0.001133   -0.708040   -40.718129
 0.50000   -0.516423   -42.445660   -0.770134
-0.001133   -0.072160   -39.522556
 0.75000   -0.516423   -21.805573   -0.770134
-0.001133   -0.754203   -38.499338
 1.00000   -0.516423   -16.175182   -0.770134
-0.001133   -1.462312   -57.954388

COMB DL-G1-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.554296   12.207794    0.791118
 0.001120    1.349231    9.839668
 0.25000    0.554296   16.817234    0.791118
 0.001120    0.666548   24.772947
 0.50000    0.554296   33.934141    0.791118
 0.001120    0.029348   33.615559
 0.75000    0.554296   52.151859    0.791118
 0.001120    0.635283   24.927492
 1.00000    0.554296   68.358344    0.791118
 0.001120    1.283678   10.244419

COMB DL-G1-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.628978   -69.884952   -0.754649
-0.001081   -1.349999   -54.177061
 0.25000   -0.628978   -53.670302   -0.754649
-0.001081   -0.693192   -36.087609
 0.50000   -0.628978   -35.434446   -0.754649
-0.001081   -0.067044   -35.057153
 0.75000   -0.628978   -18.302846   -0.754649
-0.001081   -0.727234   -34.175659
 1.00000   -0.628978   -13.629531   -0.754649
-0.001081   -1.415056   -50.318256

COMB DL-G2-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.550098   14.113618    0.246047
 0.000204    0.412225    9.350133
 0.25000    0.550098   19.596309    0.246047
 0.000204    0.205426   27.227438
 0.50000    0.550098   39.955987    0.246047
 0.000204    0.029456   37.856026
 0.75000    0.550098   61.625023    0.246047
 0.000204    0.172243   27.794371
 1.00000    0.550098   80.901802    0.246047
 0.000204    0.342397   10.312125

COMB DL-G2-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.032863   -82.226914   -0.207060
-0.000119   -0.389562   -51.159204
 0.25000   -0.032863   -62.944423   -0.207060
-0.000119   -0.209767   -30.100857
 0.50000   -0.032863   -41.249813   -0.207060
-0.000119   -0.043858   -29.312428
 0.75000   -0.032863   -20.872657   -0.207060
-0.000119   -0.244740   -28.655819
 1.00000   -0.032863   -15.313990   -0.207060
-0.000119   -0.457700   -48.166208

COMB DL-G2-2 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.497075   13.630698    0.393196
 0.000634    0.663187    9.838989
 0.25000    0.497075   18.862836    0.393196
 0.000634    0.327388   26.845019
 0.50000    0.497075   38.292099    0.393196
 0.000634    0.029911   36.938409
 0.75000    0.497075   58.970884    0.393196
 0.000634    0.291064   27.130250
 1.00000    0.497075   77.366734    0.393196
 0.000634    0.590110   10.418075
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4009

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.173672   -78.786007   -0.354067
-8.05E-05   -0.651870   -53.886835
 0.25000   -0.173672   -60.360689   -0.354067
-8.05E-05   -0.344452   -33.563421
 0.50000   -0.173672   -39.681516   -0.354067
-8.05E-05   -0.054916   -32.600918
 0.75000   -0.173672   -20.235574   -0.354067
-8.05E-05   -0.376386   -31.772980
 1.00000   -0.173672   -14.930932   -0.354067
-8.05E-05   -0.717716   -50.247237

COMB DL-G2-3 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.615248    9.059483    0.701642
 0.000951    1.194623    7.791555
 0.25000    0.615248   12.459636    0.701642
 0.000951    0.587675   18.768527
 0.50000    0.615248   25.085920    0.701642
 0.000951    0.023002   25.295130
 0.75000    0.615248   38.524218    0.701642
 0.000951    0.548942   19.187996
 1.00000    0.615248   50.478929    0.701642
 0.000951    1.110999    8.791998

COMB DL-G2-3 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.353457   -52.433598   -0.652590
-0.000852   -1.166025   -44.862086
 0.25000   -0.353457   -40.472463   -0.652590
-0.000852   -0.597646   -30.991135
 0.50000   -0.353457   -27.020786   -0.652590
-0.000852   -0.058182   -29.759937
 0.75000   -0.353457   -14.383663   -0.652590
-0.000852   -0.645101   -28.775457
 1.00000   -0.353457   -10.936393   -0.652590
-0.000852   -1.255530   -40.330111

COMB DL-G2-4 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.632301    7.729154    0.702787
 0.001129    1.200794    7.119290
 0.25000    0.632301   10.584723    0.702787
 0.001129    0.592455   16.312592
 0.50000    0.632301   21.188722    0.702787
 0.001129    0.020537   21.762665
 0.75000    0.632301   32.474678    0.702787
 0.001129    0.549638   16.591709
 1.00000    0.632301   42.514667    0.702787
 0.001129    1.115805    7.819560

COMB DL-G2-4 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.385735   -44.171847   -0.656107
-0.000894   -1.171443   -39.489417
 0.25000   -0.385735   -34.126800   -0.656107
-0.000894   -0.600125   -27.800105
 0.50000   -0.385735   -22.829607   -0.656107
-0.000894   -0.054359   -26.720818
 0.75000   -0.385735   -12.216505   -0.656107
-0.000894   -0.640235   -25.806708
 1.00000   -0.385735    -9.321366   -0.656107
-0.000894   -1.251724   -35.499595

COMB DL-G3-1 ------------------- MAX

REL DIST           P           V2           V3
       T          M2          M3
 0.00000    0.265191    0.199496    0.184254
 0.000517    0.321181    0.927052
 0.25000    0.265191    0.204409    0.184254
 0.000517    0.160814    0.890266
 0.50000    0.265191    0.222652    0.184254
 0.000517    0.001996    0.855544
 0.75000    0.265191    0.242069    0.184254
 0.000517    0.139893    0.809470
 1.00000    0.265191    0.259342    0.184254
 0.000517    0.287024    0.770477
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4010

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST           P           V2           V3
       T          M2          M3
 0.00000   -0.137360   -0.344277   -0.169352
-0.000322   -0.300757   -2.730029
 0.25000   -0.137360   -0.326995   -0.169352
-0.000322   -0.153470   -2.593348
 0.50000   -0.137360   -0.307559   -0.169352
-0.000322   -0.007237   -2.485146
 0.75000   -0.137360   -0.289300   -0.169352
```

```
-0.000322   -0.159750   -2.387099
1.00000   -0.137360   -0.284319   -0.169352
-0.000322   -0.320033   -2.321615

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.319898    0.939416    0.321927
0.000977    0.557926    1.962384
0.25000    0.319898    1.101539    0.321927
0.000977    0.278070    2.352678
0.50000    0.319898    1.703572    0.321927
0.000977    0.004316    2.576822
0.75000    0.319898    2.344323    0.321927
0.000977    0.254443    2.195247
1.00000    0.319898    2.914335    0.321927
0.000977    0.523531    1.636028

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.420581   -3.001356   -0.309793
-0.000415   -0.552473   -7.505467
0.25000   -0.420581   -2.431056   -0.309793
-0.000415   -0.282922   -6.649408
0.50000   -0.420581   -1.789667   -0.309793
-0.000415   -0.018085   -6.462067
0.75000   -0.420581   -1.187117   -0.309793
-0.000415   -0.282993   -6.301632
1.00000   -0.420581   -1.022748   -0.309793
-0.000415   -0.562603   -6.816259

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.492731    0.476932    0.455995
0.001122    0.783412    2.377826
0.25000    0.492731    0.481353    0.455995
0.001122    0.385941    2.242024
0.50000    0.492731    0.497772    0.455995
0.001122    0.005174    2.150393
0.75000    0.492731    0.515247    0.455995
0.001122    0.344530    2.190467
1.00000    0.492731    0.530793    0.455995
0.001122    0.710036    2.443784

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.286866   -1.421528   -0.420138
-0.000367   -0.748239   -11.953956
0.25000   -0.286866   -1.405974   -0.420138
-0.000367   -0.382301   -11.178674
0.50000   -0.286866   -1.388482   -0.420138
-0.000367   -0.026253   -10.482589
0.75000   -0.286866   -1.372049   -0.420138
-0.000367   -0.405674   -9.876182
1.00000   -0.286866   -1.367566   -0.420138
-0.000367   -0.802716   -9.383308

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.760299    8.386021    0.641645
0.001153    1.097086    7.455630
0.25000    0.760299    11.481088    0.641645
0.001153    0.542202    17.409063
0.50000    0.760299    22.974455    0.641645
0.001153    0.021660    23.324638
0.75000    0.760299    35.206975    0.641645
0.001153    0.490695    17.760777
1.00000    0.760299    46.089028    0.641645
0.001153    0.996977    8.210445
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4011

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.326157   -47.739223   -0.588317
-0.000715   -1.054070   -40.301797
0.25000   -0.326157   -36.851688   -0.588317
-0.000715   -0.541938   -27.715620
0.50000   -0.326157   -24.606989   -0.588317
-0.000715   -0.052003   -26.653806
0.75000   -0.326157   -13.103756   -0.588317
-0.000715   -0.567206   -25.759947
1.00000   -0.326157   -9.965798   -0.588317
-0.000715   -1.143232   -36.315437

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.552983    17.409495    0.540954
0.001254    0.919605    15.313154
0.25000    0.552983    40.183999    0.540954
0.001254    0.450962    57.229621
0.50000    0.552983    68.862621    0.540954
0.001254    0.043643    72.443412
0.75000    0.552983    92.506390    0.540954
0.001254    0.379605    57.841228
1.00000    0.552983    109.990558    0.540954
0.001254    0.764060    16.711446

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.395379   -111.565178   -0.448024
-0.001276   -0.808555   -77.659471
0.25000   -0.395379   -94.121804   -0.448024
-0.001276   -0.418658   -42.844345
0.50000   -0.395379   -76.511386   -0.448024
-0.001276   -0.073344   -42.568733
0.75000   -0.395379   -41.827947   -0.448024
-0.001276   -0.509652   -42.302563
1.00000   -0.395379   -18.713078   -0.448024
-0.001276   -0.980341   -76.100058

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.760299    20.200341    0.814156
0.001153    1.385006    13.930377
0.25000    0.760299    28.021528    0.814156
0.001153    0.762299    39.178725
0.50000    0.760299    57.065084    0.814156
0.001153    0.043699    54.540467
0.75000    0.760299    87.976469    0.814156
0.001153    0.651438    39.917485
1.00000    0.760299    115.475242    0.814156
0.001153    1.311608    14.766254

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.628978   -117.119736   -0.770134
-0.001282   -1.378412   -76.376120
0.25000   -0.628978   -89.607109   -0.770134
-0.001282   -0.708040   -46.494857
0.50000   -0.628978   -58.664948   -0.770134
-0.001282   -0.074918   -45.513081
0.75000   -0.628978   -29.596460   -0.770134
-0.001282   -0.754203   -44.693917
1.00000   -0.628978   -21.666892   -0.770134
-0.001282   -1.462312   -72.652669

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.760299    20.200341    0.814156
0.001254    1.385006    15.313154
0.25000    0.760299    40.183999    0.814156
0.001254    0.683194    57.229621
0.50000    0.760299    68.862621    0.814156
0.001254    0.043699    72.443412
0.75000    0.760299    92.506390    0.814156
0.001254    0.651438    57.841228
1.00000    0.760299    115.475242    0.814156
0.001254    1.311608    16.711446
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4012

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.628978   -117.119736   -0.770134
-0.001282   -1.378412   -77.659471
0.25000   -0.628978   -94.121804   -0.770134
-0.001282   -0.708040   -46.494857
0.50000   -0.628978   -70.511386   -0.770134
-0.001282   -0.074918   -45.513081
0.75000   -0.628978   -41.827947   -0.770134
-0.001282   -0.754203   -44.693917
1.00000   -0.628978   -21.666892   -0.770134
-0.001282   -1.462312   -76.100058

COMB    DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.760299    20.200341    0.814156
0.001254    1.385006    15.313154
0.25000    0.760299    40.183999    0.814156
0.001254    0.683194    57.229621
0.50000    0.760299    68.862621    0.814156
0.001254    0.043699    72.443412
0.75000    0.760299    92.506390    0.814156
0.001254    0.651438    57.841228
1.00000    0.760299    115.475242    0.814156
0.001254    1.311608    16.711446

COMB    DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.628978   -117.119736   -0.770134
-0.001282   -1.378412   -77.659471
0.25000   -0.628978   -94.121804   -0.770134
-0.001282   -0.708040   -46.494857
0.50000   -0.628978   -70.511386   -0.770134
-0.001282   -0.074918   -45.513081
0.75000   -0.628978   -41.827947   -0.770134
-0.001282   -0.754203   -44.693917
1.00000   -0.628978   -21.666892   -0.770134
-0.001282   -1.462312   -76.100058

ELEM      386 ================== LENGTH
=   4.973234

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.095584    0.103313    0.169541
8.58E-06    0.411229    0.820654
0.25000    0.095584    0.125397    0.169541
8.58E-06    0.200435    0.809369
0.50000    0.095584    0.157084    0.169541
8.58E-06    0.006599    1.348864
0.75000    0.095584    0.187682    0.169541
8.58E-06    0.183551    2.018125
1.00000    0.095584    0.218877    0.169541
8.58E-06    0.360471    2.718238

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.159269   -0.877709   -0.142342
-0.001205   -0.347497   -3.449084
0.25000   -0.159269   -0.841368   -0.142342
-0.001205   -0.170517   -3.298746
0.50000   -0.159269   -0.813904   -0.142342
-0.001205   -0.010323   -3.209905
0.75000   -0.159269   -0.781326   -0.142342
-0.001205   -0.221146   -3.122923
1.00000   -0.159269   -0.756273   -0.142342
-0.001205   -0.431937   -3.082991

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.253542    11.679708    0.274879
8.79E-05    0.643283    16.738484
0.25000    0.253542    32.261976    0.274879
8.79E-05    0.323217    67.778718
0.50000    0.253542    61.794300    0.274879
8.79E-05    0.049808    93.654265
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4013

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.75000    0.253542    90.311696    0.274879
8.79E-05    0.256198    74.096238
1.00000    0.253542    119.385259    0.274879
8.79E-05    0.503345    17.290241

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.214213   -121.160745   -0.199207
-0.001463   -0.487360   -76.098464
0.25000   -0.214213   -87.291155   -0.199207
-0.001463   -0.245078   -23.188197
0.50000   -0.214213   -61.694677   -0.199207
-0.001463   -0.050216   -27.595905
0.75000   -0.214213   -31.332104   -0.199207
-0.001463   -0.381999   -33.727900
1.00000   -0.214213   -7.982785   -0.199207
-0.001463   -0.723756   -83.713505

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.222524    7.990168    0.306574
0.000539    0.727347    12.153207
0.25000    0.222524    22.002452    0.306574
0.000539    0.360933    47.220292
0.50000    0.222524    42.107881    0.306574
0.000539    0.038704    65.415160
0.75000    0.222524    61.522352    0.306574
0.000539    0.269779    52.888316
1.00000    0.222524    81.315459    0.306574
0.000539    0.538213    15.116778

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.211150   -83.327468   -0.215868
-0.001296   -0.535347   -55.098900
0.25000   -0.211150   -60.259255   -0.215868
-0.001296   -0.270543   -19.032685
0.50000   -0.211150   -42.843327   -0.215868
-0.001296   -0.042400   -21.985814
0.75000   -0.211150   -22.172669   -0.215868
-0.001296   -0.416302   -26.118307
1.00000   -0.211150   -6.276593   -0.215868
-0.001296   -0.797412   -60.104457

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.232098    6.671422    0.291274
0.000889    0.694416    10.465589
0.25000    0.232098    18.298637    0.291274
0.000889    0.344504    39.515811
0.50000    0.232098    34.981865    0.291274
0.000889    0.032412    54.568240
0.75000    0.232098    51.091745    0.291274
0.000889    0.255701    44.383452
1.00000    0.232098    67.515813    0.291274
0.000889    0.513732    13.353065

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.254579   -69.414968   -0.207492
-0.001080   -0.518169   -46.883633
0.25000   -0.254579   -50.281557   -0.207492
-0.001080   -0.263151   -16.992968
0.50000   -0.254579   -35.821744   -0.207492
-0.001080   -0.038401   -19.480172
0.75000   -0.254579   -18.669496   -0.207492
-0.001080   -0.392190   -22.946549
1.00000   -0.254579   -5.479135   -0.207492
-0.001080   -0.754296   -51.185500

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.165286    9.775807    0.104108
0.000263    0.232785    13.808079
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4014

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.25000    0.165286    27.001310    0.104108
0.000263    0.121556    56.456212
0.50000    0.165286    51.717203    0.104108
0.000263    0.037480    77.795173
0.75000    0.165286    75.583693    0.104108
0.000263    0.059789    61.007908
1.00000    0.165286    99.915645    0.104108
0.000263    0.122138    13.028325

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.047341   -101.011789   -0.050089
-5.35E-05   -0.126968   -61.491249
0.25000   -0.047341   -72.665996   -0.050089
-5.35E-05   -0.069211   -17.287737
0.50000   -0.047341   -51.244051   -0.050089
-5.35E-05   -0.034696   -21.050841
0.75000   -0.047341   -25.833313   -0.050089
-5.35E-05   -0.155609   -26.263604
1.00000   -0.047341   -6.292037   -0.050089
-5.35E-05   -0.285047   -68.174487

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.156858    9.054767    0.159536
0.000820    0.368894    13.115270
0.25000    0.156858    25.087736    0.159536
0.000820    0.187484    52.986105
0.50000    0.156858    48.092529    0.159536
0.000820    0.036638    73.166981
0.75000    0.156858    70.306723    0.159536
0.000820    0.102859    58.104327
1.00000    0.156858    92.954155    0.159536
0.000820    0.213622    14.090778

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.117230   -94.542363   -0.089047
-4.98E-05   -0.229225   -59.399889
0.25000   -0.117230   -68.158970   -0.089047
-4.98E-05   -0.122628   -18.247941
0.50000   -0.117230   -48.220083   -0.089047
-4.98E-05   -0.037362   -21.742374
0.75000   -0.117230   -24.568550   -0.089047
-4.98E-05   -0.226405   -26.586869
1.00000   -0.117230   -6.381732   -0.089047
-4.98E-05   -0.424705   -65.590582

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.220771    6.575253    0.264935
0.000744    0.629386    10.572647
0.25000    0.220771    17.924210    0.264935
0.000744    0.311944    39.024547
0.50000    0.220771    34.208181    0.264935
0.000744    0.031531    53.741103
0.75000    0.220771    49.932526    0.264935
0.000744    0.219873    43.822888
1.00000    0.220771    65.963539    0.264935
0.000744    0.442246    13.643503

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.201169   -67.919008   -0.178820
-0.000906   -0.447065   -45.561688
0.25000   -0.201169   -49.243491   -0.178820
-0.000906   -0.227667   -16.362570
0.50000   -0.201169   -35.129725   -0.178820
-0.000906   -0.036299   -18.766628
0.75000   -0.201169   -18.387958   -0.178820
-0.000906   -0.359029   -22.126696
1.00000   -0.201169   -5.513264   -0.178820
-0.000906   -0.688387   -49.666726
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4015

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.246359    5.561369    0.257813
0.001026    0.616118    9.185543
0.25000    0.246359    15.068522    0.257813
0.001026    0.305575    32.977384
0.50000    0.246359    28.709794    0.257813
0.001026    0.026699    45.263406
0.75000    0.246359    41.882260    0.257813
0.001026    0.212503    37.060978
1.00000    0.246359    55.311626    0.257813
0.001026    0.430305    11.928445

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.213792   -57.039894   -0.175124
-0.000755   -0.440621   -39.075614
0.25000   -0.213792   -41.395196   -0.175124
-0.000755   -0.225283   -14.683664
0.50000   -0.213792   -29.571930   -0.175124
-0.000755   -0.033226   -16.766057
0.75000   -0.213792   -15.547158   -0.175124
-0.000755   -0.345669   -19.649578
1.00000   -0.213792   -4.761877   -0.175124
-0.000755   -0.666185   -42.788890

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.109240    0.128052    0.059140
0.000611    0.146253    0.544091
0.25000    0.109240    0.150136    0.059140
0.000611    0.072735    0.530060
0.50000    0.109240    0.181823    0.059140
0.000611    0.000606    0.494485
0.75000    0.109240    0.212421    0.059140
0.000611    0.044801    0.645449
1.00000    0.109240    0.243616    0.059140
0.000611    0.091259    0.802668

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.098061   -0.347889   -0.038555
-4.78E-07   -0.100460   -1.358470
0.25000   -0.098061   -0.311548   -0.038555
-4.78E-07   -0.052454   -1.428179
0.50000   -0.098061   -0.284084   -0.038555
-4.78E-07   -0.004280   -1.560992
0.75000   -0.098061   -0.251506   -0.038555
-4.78E-07   -0.074328   -1.696736
1.00000   -0.098061   -0.226453   -0.038555
-4.78E-07   -0.147870   -1.880674

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.147906    0.527946    0.105090
0.001143    0.257902    1.462246
0.25000    0.147906    1.190466    0.105090
0.001143    0.127954    2.976603
0.50000    0.147906    2.141077    0.105090
0.001143    0.002621    3.741895
0.75000    0.147906    3.059019    0.105090
0.001143    0.082352    3.627947
1.00000    0.147906    3.994863    0.105090
0.001143    0.172888    2.496733

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.222951   -4.521014   -0.073078
-2.45E-06   -0.190517   -5.146440
0.25000   -0.222951   -3.430792   -0.073078
-2.45E-06   -0.099732   -3.584661
0.50000   -0.222951   -2.606871   -0.073078
-2.45E-06   -0.009432   -3.870968
0.75000   -0.222951   -1.629535   -0.073078
-2.45E-06   -0.134180   -4.214462
1.00000   -0.222951   -0.877947   -0.073078
-2.45E-06   -0.264823   -5.971884
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4016

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.181922    0.784761    0.166727
0.001376    0.406114    2.366306
0.25000    0.181922    1.838157    0.166727
0.001376    0.199920    5.133909
0.50000    0.181922    3.349639    0.166727
0.001376    0.006712    6.823680
0.75000    0.181922    4.809167    0.166727
0.001376    0.115408    6.781893
1.00000    0.181922    6.297159    0.166727
0.001376    0.243605    5.063534

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.175005   -7.325743   -0.103194
-3.62E-06   -0.269575   -8.353395
0.25000   -0.175005   -5.592288   -0.103194
-3.62E-06   -0.141441   -5.754283
0.50000   -0.175005   -4.282254   -0.103194
-3.62E-06   -0.014168   -6.090668
0.75000   -0.175005   -2.728290   -0.103194
-3.62E-06   -0.215988   -6.516405
1.00000   -0.175005   -1.533265   -0.103194
-3.62E-06   -0.423262   -9.189184

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.285614    6.580433    0.236189
0.001138    0.562334    10.493938
0.25000    0.285614    17.810136    0.236189
0.001138    0.280493    38.425452
0.50000    0.285614    33.922998    0.236189
0.001138    0.028809    52.690103
0.75000    0.285614    49.482113    0.236189
0.001138    0.181257    42.646013
1.00000    0.285614    65.344674    0.236189
0.001138    0.369602    12.489608

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.211192   -66.940521   -0.151576
-0.000498   -0.384200   -44.449868
0.25000   -0.211192   -48.461243   -0.151576
-0.000498   -0.198561   -15.696443
0.50000   -0.211192   -34.495783   -0.151576
-0.000498   -0.034722   -18.215648
0.75000   -0.211192   -17.929937   -0.151576
-0.000498   -0.318809   -21.680675
1.00000   -0.211192   -5.190528   -0.151576
-0.000498   -0.612446   -49.072426

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.123834    0.133908    0.258940
6.89E-06    0.630593    1.135599
0.25000    0.123834    0.140859    0.258940
6.89E-06    0.308798    1.199864
0.50000    0.123834    0.160156    0.258940
6.89E-06    0.008850    1.427401
0.75000    0.123834    0.181693    0.258940
6.89E-06    0.292957    1.771262
1.00000    0.123834    0.200758    0.258940
6.89E-06    0.584269    2.215711

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.318697   -0.987613   -0.234412
-0.001277   -0.580245   -6.781583
0.25000   -0.318697   -0.969916   -0.234412
-0.001277   -0.288784   -5.933402
0.50000   -0.318697   -0.948689   -0.234412
-0.001277   -0.019345   -5.226827
0.75000   -0.318697   -0.928732   -0.234412
-0.001277   -0.335201   -4.625053
1.00000   -0.318697   -0.918813   -0.234412
-0.001277   -0.657095   -4.139119
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4017
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.360996	13.247504	0.408827
5.93E-05	0.980681	14.815895	
0.25000	0.360996	24.313191	0.408827
5.93E-05	1.444036	49.693896	
0.50000	0.360996	55.034540	0.408827
5.93E-05	0.055595	74.744968	
0.75000	0.360996	89.320557	0.408827
5.93E-05	0.438589	54.278429	
1.00000	0.360996	119.671876	0.408827
5.93E-05	0.844770	13.978724	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.367248	-120.336905	-0.338623
-0.001482	-0.845010	-72.750310	
0.25000	-0.367248	-92.163253	-0.338623
-0.001482	-0.429397	-24.857536	
0.50000	-0.367248	-58.369672	-0.338623
-0.001482	-0.059569	-28.559320	
0.75000	-0.367248	-26.597437	-0.338623
-0.001482	-0.550989	-33.518487	
1.00000	-0.367248	-8.895703	-0.338623
-0.001482	-1.056385	-77.329645	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.338119	9.484757	0.449076
0.000441	1.082783	11.786442	
0.25000	0.338119	17.341951	0.449076
0.000441	0.540042	36.635824	
0.50000	0.338119	39.155653	0.449076
0.000441	0.045079	54.671576	
0.75000	0.338119	63.500447	0.449076
0.000441	0.453530	40.547965	
1.00000	0.338119	85.051409	0.449076
0.000441	0.891733	12.469352	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.359113	-86.352704	-0.360241
-0.001336	-0.902332	-58.041114	
0.25000	-0.359113	-66.347995	-0.360241
-0.001336	-0.458502	-23.280054	
0.50000	-0.359113	-42.352854	-0.360241
-0.001336	-0.057173	-25.278644	
0.75000	-0.359113	-19.792971	-0.360241
-0.001336	-0.595803	-28.270749	
1.00000	-0.359113	-7.223850	-0.360241
-0.001336	-1.152665	-58.945916	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.339792	7.953000	0.432436
0.000791	1.045610	10.266621	
0.25000	0.339792	14.474596	0.432436
0.000791	0.520821	30.836737	
0.50000	0.339792	32.580316	0.432436
0.000791	0.037745	45.813649	
0.75000	0.339792	52.786883	0.432436
0.000791	0.428104	34.240053	
1.00000	0.339792	70.674525	0.432436
0.000791	0.848010	11.125441	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.407572	-71.975865	-0.344258
-0.001114	-0.865307	-50.378549	
0.25000	-0.407572	-55.371637	-0.344258
-0.001114	-0.440657	-21.262957	
0.50000	-0.407572	-35.455289	-0.344258
-0.001114	-0.052343	-22.732578	
0.75000	-0.407572	-16.730226	-0.344258
-0.001114	-0.570155	-25.098105	
1.00000	-0.407572	-6.297656	-0.344258
-0.001114	-1.106527	-50.478293	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4018

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251395	9.338391	0.139441
0.000213	0.328679	10.314254	
0.25000	0.251395	17.095493	0.139441
0.000213	0.170954	34.621770	
0.50000	0.251395	38.631314	0.139441
0.000213	0.034582	52.039335	
0.75000	0.251395	62.665984	0.139441
0.000213	0.121427	37.628496	
1.00000	0.251395	83.942411	0.139441
0.000213	0.224523	9.282452	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.047641	-84.090720	-0.091191
-4.87E-05	-0.233202	-48.206736	
0.25000	-0.047641	-64.340848	-0.091191
-4.87E-05	-0.123672	-14.972346	
0.50000	-0.047641	-40.573178	-0.091191
-4.87E-05	-0.032108	-17.884766	
0.75000	-0.047641	-18.378882	-0.091191
-4.87E-05	-0.195413	-21.626195	
1.00000	-0.047641	-5.969877	-0.091191
-4.87E-05	-0.366919	-52.574140	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.240622	8.878696	0.220535
0.000710	0.527362	10.412190	
0.25000	0.240622	16.281307	0.220535
0.000710	0.134448	33.733542	
0.50000	0.240622	36.832964	0.220535
0.000710	0.035036	50.572566	
0.75000	0.240622	59.769275	0.220535
0.000710	0.185497	37.087941	
1.00000	0.240622	80.073392	0.220535
0.000710	0.360859	10.374181	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.134448	-80.801992	-0.148969
-4.64E-05	-0.381800	-50.261399	
0.25000	-0.134448	-61.954667	-0.148969
-4.64E-05	-0.200389	-18.032610	
0.50000	-0.134448	-39.347781	-0.148969
-4.64E-05	-0.039646	-20.377489	
0.75000	-0.134448	-18.093114	-0.148969
-4.64E-05	-0.298691	-23.627423	
1.00000	-0.134448	-6.251187	-0.148969
-4.64E-05	-0.571552	-52.898175	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335219	6.033963	0.385975
0.000645	0.933997	8.812653	
0.25000	0.335219	10.844617	0.385975
0.000645	0.462979	23.797055	
0.50000	0.335219	24.200299	0.385975
0.000645	0.031199	34.838056	
0.75000	0.335219	39.105671	0.385975
0.000645	0.370193	26.614035	
1.00000	0.335219	52.300488	0.385975
0.000645	0.736456	9.970526	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.269077	-53.706664	-0.299234
-0.000919	-0.752346	-40.378756	
0.25000	-0.269077	-41.458558	-0.299234
-0.000919	-0.382566	-18.574846	
0.50000	-0.269077	-26.767266	-0.299234
-0.000919	-0.045469	-19.419444	
0.75000	-0.269077	-12.954726	-0.299234
-0.000919	-0.507611	-20.946493	
1.00000	-0.269077	-5.259141	-0.299234
-0.000919	-0.987113	-39.305588	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4019

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.364709	5.162441	0.381383
0.000939	0.925649	7.822839	
0.25000	0.364709	9.202571	0.381383
0.000939	0.458978	20.380900	
0.50000	0.364709	20.419145	0.381383
0.000939	0.026328	29.660161	
0.75000	0.364709	32.937202	0.381383
0.000939	0.358582	22.828471	
1.00000	0.364709	44.018674	0.381383
0.000939	0.717879	8.956057	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.298689	-45.292688	-0.293114
-0.000766	-0.739053	-35.529183	
0.25000	-0.298689	-35.006297	-0.293114
-0.000766	-0.376604	-17.110312	
0.50000	-0.298689	-22.668031	-0.293114
-0.000766	-0.044204	-17.751396	
0.75000	-0.298689	-11.067777	-0.293114
-0.000766	-0.498359	-18.995728	
1.00000	-0.298689	-4.604749	-0.293114
-0.000766	-0.972011	-34.406733	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.176696	0.207097	0.092556
0.000600	0.228633	0.746243	
0.25000	0.176696	0.214047	0.092556
0.000600	0.113564	0.722122	
0.50000	0.176696	0.233345	0.092556
0.000600	0.000542	0.729504	
0.75000	0.176696	0.254881	0.092556
0.000600	0.077171	0.809517	
1.00000	0.176696	0.273946	0.092556
0.000600	0.158906	0.916084	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.122463	-0.348939	-0.065955
-2.98E-07	-0.169287	-2.303261	
0.25000	-0.122463	-0.331242	-0.065955
-2.98E-07	-0.087390	-2.193513	
0.50000	-0.122463	-0.310015	-0.065955
-2.98E-07	-0.006207	-2.151299	
0.75000	-0.122463	-0.290057	-0.065955
-2.98E-07	-0.116484	-2.155157	
1.00000	-0.122463	-0.278938	-0.065955
-2.98E-07	-0.231525	-2.220129	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.218334	0.554591	0.166130
0.001129	0.408566	1.606642	
0.25000	0.218334	0.783968	0.166130
0.001129	0.202411	2.233243	
0.50000	0.218334	1.420780	0.166130
0.001129	0.002277	2.781030	
0.75000	0.218334	2.131482	0.166130
0.001129	0.140290	2.686408	
1.00000	0.218334	2.760624	0.166130
0.001129	0.289829	2.277778	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.268257	-3.217199	-0.121255
-1.69E-06	-0.311317	-6.784148	
0.25000	-0.268257	-2.633198	-0.121255
-1.69E-06	-0.161044	-5.316492	
0.50000	-0.268257	-1.932703	-0.121255
-1.69E-06	-0.013606	-5.064064	
0.75000	-0.268257	-1.274107	-0.121255
-1.69E-06	-0.210748	-4.981659	
1.00000	-0.268257	-0.907174	-0.121255
-1.69E-06	-0.417321	-5.782479	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4020

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.291429	0.367456	0.242463
0.001273	0.593872	2.411845	
0.25000	0.291429	0.373712	0.242463
0.001273	0.291863	2.328040	
0.50000	0.291429	0.391079	0.242463
0.001273	0.005406	2.518464	
0.75000	0.291429	0.410462	0.242463
0.001273	0.195579	3.138270	
1.00000	0.291429	0.427621	0.242463
0.001273	0.405365	3.936203	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.222354	-1.429251	-0.169558
-2.79E-06	-0.434183	-9.371065	
0.25000	-0.222354	-1.413324	-0.169558
-2.79E-06	-0.223761	-8.370968	
0.50000	-0.222354	-1.394219	-0.169558
-2.79E-06	-0.021250	-7.627325	
0.75000	-0.222354	-1.376258	-0.169558
-2.79E-06	-0.309124	-7.065131	
1.00000	-0.222354	-1.366251	-0.169558
-2.79E-06	-0.611312	-6.674975	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.420029	5.639078	0.346464
0.001056	0.840850	8.198152	
0.25000	0.420029	10.018087	0.346464
0.001056	0.418433	21.780841	
0.50000	0.420029	22.175405	0.346464
0.001056	0.026228	31.773971	
0.75000	0.420029	35.743364	0.346464
0.001056	0.312969	24.205393	
1.00000	0.420029	47.754250	0.346464
0.001056	0.625209	8.994114	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.269108	-48.806455	-0.256332
-0.000482	-0.649092	-36.335534	
0.25000	-0.269108	-37.657334	-0.256332
-0.000482	-0.332694	-16.677955	
0.50000	-0.269108	-24.284246	-0.256332
-0.000482	-0.040085	-17.615684	
0.75000	-0.269108	-11.711062	-0.256332
-0.000482	-0.453114	-19.155401	
1.00000	-0.269108	-4.705979	-0.256332
-0.000482	-0.883357	-36.181241	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.285614	11.679708	0.306574
0.001376	0.727347	16.738484	
0.25000	0.285614	32.261976	0.306574
0.001376	0.540042	67.778718	
0.50000	0.285614	61.794300	0.306574
0.001376	0.049806	93.654265	
0.75000	0.285614	90.311696	0.306574
0.001376	0.269779	74.096238	
1.00000	0.285614	119.385259	0.306574
0.001376	0.538213	17.290241	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.254579	-121.160745	-0.215868
-0.001463	-0.902332	-76.098464	
0.25000	-0.254579	-87.291155	-0.215868
-0.001463	-0.270543	-23.188197	
0.50000	-0.254579	-61.694677	-0.215868
-0.001463	-0.050216	-27.591905	
0.75000	-0.254579	-31.332104	-0.215868
-0.001463	-0.416302	-33.727900	
1.00000	-0.254579	-8.895703	-0.215868
-0.001463	-0.797412	-83.713505	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4021

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.420029	13.247504	0.449076
0.001273	1.082783	14.815895	
0.25000	0.420029	24.313191	0.449076
0.001273	0.540042	49.693896	
0.50000	0.420029	55.034540	0.449076
0.001273	0.055595	74.744968	
0.75000	0.420029	89.320557	0.449076
0.001273	0.453530	54.278429	
1.00000	0.420029	119.671876	0.449076
0.001273	0.891733	13.978724	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.407572	-120.336905	-0.360241
-0.001482	-0.902332	-72.750310	
0.25000	-0.407572	-92.163253	-0.360241
-0.001482	-0.458502	-24.857536	
0.50000	-0.407572	-58.369672	-0.360241
-0.001482	-0.059569	-28.559320	
0.75000	-0.407572	-26.597437	-0.360241
-0.001482	-0.595803	-33.518487	
1.00000	-0.407572	-8.895703	-0.360241
-0.001482	-1.152665	-77.329645	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.420029	13.247504	0.449076
0.001376	1.082783	16.738484	
0.25000	0.420029	32.261976	0.449076
0.001376	0.540042	67.778718	
0.50000	0.420029	61.794300	0.449076
0.001376	0.055595	93.654265	
0.75000	0.420029	90.311696	0.449076
0.001376	0.453530	74.096238	
1.00000	0.420029	119.671876	0.449076
0.001376	0.891733	17.290241	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.407572	-121.160745	-0.360241
-0.001482	-0.902332	-76.098464	
0.25000	-0.407572	-92.163253	-0.360241
-0.001482	-0.458502	-24.857536	
0.50000	-0.407572	-61.694677	-0.360241
-0.001482	-0.059569	-28.559320	
0.75000	-0.407572	-31.332104	-0.360241
-0.001482	-0.595803	-33.727900	
1.00000	-0.407572	-8.895703	-0.360241
-0.001482	-1.152665	-83.713505	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.420029	13.247504	0.449076
0.001376	1.082783	16.738484	
0.25000	0.420029	32.261976	0.449076
0.001376	0.540042	67.778718	
0.50000	0.420029	61.794300	0.449076
0.001376	0.055595	93.654265	
0.75000	0.420029	90.311696	0.449076
0.001376	0.453530	74.096238	
1.00000	0.420029	119.671876	0.449076
0.001376	0.891733	17.290241	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.407572	-121.160745	-0.360241
-0.001482	-0.902332	-76.098464	
0.25000	-0.407572	-92.163253	-0.360241
-0.001482	-0.458502	-24.857536	
0.50000	-0.407572	-61.694677	-0.360241
-0.001482	-0.059569	-28.559320	
0.75000	-0.407572	-31.332104	-0.360241
-0.001482	-0.595803	-33.727900	
1.00000	-0.407572	-8.895703	-0.360241
-0.001482	-1.152665	-83.713505	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4022

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 387 ========== LENGTH = 4.972333

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.093387	0.116165	0.180822
5.81E-06	0.449732	2.696484	
0.25000	0.093387	0.140119	0.180822
5.81E-06	0.224992	3.003531	
0.50000	0.093387	0.171893	0.180822
5.81E-06	0.011258	3.416173	
0.75000	0.093387	0.201823	0.180822
5.81E-06	0.187945	3.957770	
1.00000	0.093387	0.233380	0.180822
5.81E-06	0.375366	4.536695	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.096779	-0.790924	-0.150771
-0.001206	-0.374316	-3.068523	
0.25000	-0.096779	-0.758995	-0.150771
-0.001206	-0.186903	-2.865472	
0.50000	-0.096779	-0.729115	-0.150771
-0.001206	-0.008267	-2.717463	
0.75000	-0.096779	-0.697279	-0.150771
-0.001206	-0.224669	-2.571052	
1.00000	-0.096779	-0.673089	-0.150771
-0.001206	-0.449410	-2.476915	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.161410	11.033120	0.294330
6.10E-05	0.723099	17.252581	
0.25000	0.161410	33.358586	0.294330
6.10E-05	0.376764	72.702048	
0.50000	0.161410	62.972204	0.294330
6.10E-05	0.064078	99.465735	
0.75000	0.161410	90.866101	0.294330
6.10E-05	0.262688	77.590852	
1.00000	0.161410	120.277637	0.294330
6.10E-05	0.524569	20.258222	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.164379	-121.386520	-0.210661
-0.001514	-0.522914	-83.700834	
0.25000	-0.164379	-91.629097	-0.210661
-0.001514	-0.266296	-32.229728	
0.50000	-0.164379	-63.781108	-0.210661
-0.001514	-0.054980	-32.053020	
0.75000	-0.164379	-34.110016	-0.210661
-0.001514	-0.389650	-32.622258	
1.00000	-0.164379	-11.564722	-0.210661
-0.001514	-0.755450	-83.385993	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.157946	7.632385	0.324611
0.000446	0.804527	15.071582	
0.25000	0.157946	22.831429	0.324611
0.000446	0.414504	53.020367	
0.50000	0.157946	42.992201	0.324611
0.000446	0.056720	71.605735	
0.75000	0.157946	61.982247	0.324611
0.000446	0.253974	57.312781	
1.00000	0.157946	82.005396	0.324611
0.000446	0.515133	19.022952	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.205695	-83.373530	-0.210107
-0.001314	-0.529524	-60.081123	
0.25000	-0.205695	-63.114855	-0.210107
-0.001314	-0.271824	-24.906734	
0.50000	-0.205695	-44.156112	-0.210107
-0.001314	-0.046432	-24.656681	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4023

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.205695	-23.956210	-0.210107
-0.001314	-0.416543	-24.907615	
1.00000	-0.205695	-8.607510	-0.210107
-0.001314	-0.819991	-59.334177	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167859	6.391882	0.305670
0.000805	0.759302	13.307960	
0.25000	0.167859	19.003854	0.305670
0.000805	0.390514	44.892831	
0.50000	0.167859	35.733006	0.305670
0.000805	0.051139	60.474523	
0.75000	0.167859	51.490704	0.305670
0.000805	0.237186	48.839673	
1.00000	0.167859	68.105657	0.305670
0.000805	0.480401	17.342855	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.212695	-69.428705	-0.195631
-0.001095	-0.492524	-51.118579	
0.25000	-0.212695	-52.618315	-0.195631
-0.001095	-0.252922	-21.948633	
0.50000	-0.212695	-36.886592	-0.195631
-0.001095	-0.042898	-21.718156	
0.75000	-0.212695	-20.124972	-0.195631
-0.001095	-0.390326	-21.093562	
1.00000	-0.212695	-7.388816	-0.195631
-0.001095	-0.769879	-50.447513	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.060520	9.258760	0.110913
0.000209	0.269445	13.013235	
0.25000	0.060520	27.943163	0.110913
0.000209	0.147981	59.237844	
0.50000	0.060520	52.727092	0.110913
0.000209	0.047226	81.388843	
0.75000	0.060520	76.071829	0.110913
0.000209	0.055754	62.729974	
1.00000	0.060520	100.686575	0.110913
0.000209	0.111304	14.370782	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.075137	-101.248413	-0.044641
-0.000174	-0.111341	-68.173126	
0.25000	-0.075137	-76.344132	-0.044641
-0.000174	-0.062119	-25.195576	
0.50000	-0.075137	-53.037876	-0.044641
-0.000174	-0.040983	-25.151236	
0.75000	-0.075137	-26.205845	-0.044641
-0.000174	-0.156828	-25.722774	
1.00000	-0.075137	-9.337467	-0.044641
-0.000174	-0.294646	-68.306705	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.079372	8.638921	0.165240
0.000705	0.409343	14.065168	
0.25000	0.079372	26.029788	0.165240
0.000705	0.219354	57.190499	

0.50000	0.079372	49.097907	0.165240
0.000705	0.052252	78.047580	
0.75000	0.079372	70.826469	0.165240
0.000705	0.077056	61.097863	
1.00000	0.079372	93.737117	0.165240
0.000705	0.162670	16.595239	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.134272	-94.671290	-0.068842
-7.27E-05	-0.179883	-65.578735	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.134272	-71.491151	-0.068842
-7.27E-05	-0.099245	-25.505716	
0.50000	-0.134272	-49.798404	-0.068842
-7.27E-05	-0.044695	-25.393360	
0.75000	-0.134272	-26.685514	-0.068842
-7.27E-05	-0.220171	-25.854223	
1.00000	-0.134272	-9.123408	-0.068842
-7.27E-05	-0.425051	-65.419166	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.135294	6.356949	0.278130
0.000640	0.691932	13.601858	
0.25000	0.135294	18.667096	0.278130
0.000640	0.357146	44.288950	
0.50000	0.135294	34.995892	0.278130
0.000640	0.050421	59.413461	
0.75000	0.135294	50.376482	0.278130
0.000640	0.196545	48.049845	
1.00000	0.135294	66.593813	0.278130
0.000640	0.406500	17.388475	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.197310	-67.907637	-0.166458
-0.000935	-0.421407	-49.643252	
0.25000	-0.197310	-51.499547	-0.166458
-0.000935	-0.218150	-21.122147	
0.50000	-0.197310	-36.144309	-0.166458
-0.000935	-0.040634	-20.887261	
0.75000	-0.197310	-19.788921	-0.166458
-0.000935	-0.355108	-21.058288	
1.00000	-0.197310	-7.352463	-0.166458
-0.000935	-0.700361	-48.909393	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.160139	5.369632	0.269185
0.000950	0.669517	11.887062	
0.25000	0.160139	15.681985	0.269185
0.000950	0.344070	37.763050	
0.50000	0.160139	29.360808	0.269185
0.000950	0.045653	50.600507	
0.75000	0.160139	42.245307	0.269185
0.000950	0.192874	41.251565	
1.00000	0.160139	55.830753	0.269185
0.000950	0.392036	15.741873	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.210510	-57.051242	-0.160193
-0.000779	-0.404643	-42.763060	
0.25000	-0.210510	-43.305994	-0.160193
-0.000779	-0.208423	-18.860845	
0.50000	-0.210510	-30.442734	-0.160193
-0.000779	-0.038181	-18.654969	
0.75000	-0.210510	-16.737363	-0.160193
-0.000779	-0.342328	-18.789362	
1.00000	-0.210510	-6.323469	-0.160193
-0.000779	-0.676633	-42.111673	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.080382	0.090499	0.059293
0.000644	0.147814	0.793276	
0.25000	0.080382	0.114453	0.059293
0.000644	0.074118	1.067937	
0.50000	0.080382	0.146227	0.059293
0.000644	0.005233	1.340100	
0.75000	0.080382	0.176156	0.059293
0.000644	0.043037	1.586155	
1.00000	0.080382	0.207714	0.059293
0.000644	0.086132	1.812502	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.088811	-0.389882	-0.034668
-5.23E-07	-0.086393	-1.871500	
0.25000	-0.088811	-0.357953	-0.034668
-5.23E-07	-0.043307	-1.808112	
0.50000	-0.088811	-0.328074	-0.034668
-5.23E-07	-0.006455	-1.800358	
0.75000	-0.088811	-0.296238	-0.034668
-5.23E-07	-0.073315	-1.794253	
1.00000	-0.088811	-0.272047	-0.034668
-5.23E-07	-0.147027	-1.842010	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113306	0.511250	0.103972
0.001148	0.261972	2.478697	
0.25000	0.113306	1.229881	0.103972
0.001148	0.133364	4.485519	
0.50000	0.113306	2.183109	0.103972
0.001148	0.012446	5.757018	
0.75000	0.113306	3.080983	0.103972
0.001148	0.072513	5.611754	
1.00000	0.113306	4.027704	0.103972
0.001148	0.145177	4.432698	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.138713	-4.496270	-0.059055
-3.41E-06	-0.148909	-5.954588	
0.25000	-0.138713	-3.538413	-0.059055
-3.41E-06	-0.076821	-4.254653	
0.50000	-0.138713	-2.642018	-0.059055
-3.41E-06	-0.012932	-4.206859	
0.75000	-0.138713	-1.686940	-0.059055
-3.41E-06	-0.127982	-4.183706	
1.00000	-0.138713	-0.961234	-0.059055
-3.41E-06	-0.256590	-5.776510	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.126381	0.823240	0.168771
0.001303	0.424642	5.033933	
0.25000	0.126381	1.965863	0.168771
0.001303	0.216001	8.229396	
0.50000	0.126381	3.481496	0.168771
0.001303	0.021529	10.183872	
0.75000	0.126381	4.909116	0.168771
0.001303	0.089593	9.945547	
1.00000	0.126381	6.414403	0.168771
0.001303	0.187258	8.086683	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.186737	-7.255735	-0.078543
-5.13E-06	-0.203488	-9.164461	
0.25000	-0.186737	-5.732743	-0.078543
-5.13E-06	-0.106838	-6.404888	
0.50000	-0.186737	-4.307476	-0.078543
-5.13E-06	-0.018515	-6.271618	
0.75000	-0.186737	-2.788901	-0.078543
-5.13E-06	-0.206918	-6.176836	
1.00000	-0.186737	-1.635027	-0.078543
-5.13E-06	-0.416290	-8.651468	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.161628	6.282381	0.245239
0.001079	0.609397	12.451879	
0.25000	0.161628	18.463175	0.245239
0.001079	0.311548	42.924244	
0.50000	0.161628	34.620390	0.245239
0.001079	0.047882	57.911529	
0.75000	0.161628	49.839363	0.245239
0.001079	0.162356	46.588907	
1.00000	0.161628	65.886284	0.245239
0.001079	0.331028	16.090693	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.215878	-67.017462	-0.135665
-0.000526	-0.343716	-49.048933	
0.25000	-0.215878	-50.781787	-0.135665
-0.000526	-0.178517	-20.893563	
0.50000	-0.215878	-35.587900	-0.135665
-0.000526	-0.041148	-20.727784	
0.75000	-0.215878	-19.399326	-0.135665
-0.000526	-0.314524	-20.964164	
1.00000	-0.215878	-7.098595	-0.135665
-0.000526	-0.618986	-48.589747	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.151163	0.178561	0.268833
5.49E-06	0.673280	2.234708	
0.25000	0.151163	0.186614	0.268833
5.49E-06	0.339149	2.440263	
0.50000	0.151163	0.206046	0.268833
5.49E-06	0.010464	2.754886	
0.75000	0.151163	0.227249	0.268833
5.49E-06	0.281895	3.181125	
1.00000	0.151163	0.245871	0.268833
5.49E-06	0.570754	3.820397	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.148310	-0.891240	-0.232500
-0.001231	-0.583804	-4.180531	
0.25000	-0.148310	-0.872706	-0.232500
-0.001231	-0.294885	-3.631115	
0.50000	-0.148310	-0.851519	-0.232500
-0.001231	-0.009862	-3.207590	
0.75000	-0.148310	-0.832033	-0.232500
-0.001231	-0.329398	-2.882046	
1.00000	-0.148310	-0.823601	-0.232500
-0.001231	-0.663503	-2.831504	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.246005	12.574773	0.423428
4.98E-05	1.056095	31.300693	
0.25000	0.246005	25.394079	0.423428
4.98E-05	0.550452	54.279559	
0.50000	0.246005	56.329850	0.423428
4.98E-05	0.064045	78.392977	
0.75000	0.246005	90.085651	0.423428
4.98E-05	0.412572	56.688187	
1.00000	0.246005	119.732243	0.423428
4.98E-05	0.814022	17.740403	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251933	-121.212533	-0.333527
-0.001451	-0.857182	-77.392181	
0.25000	-0.251933	-91.705711	-0.333527
-0.001451	-0.446552	-31.022189	
0.50000	-0.251933	-57.976171	-0.333527
-0.001451	-0.047882	-30.697209	
0.75000	-0.251933	-26.954532	-0.333527
-0.001451	-0.554081	-30.567994	
1.00000	-0.251933	-13.531193	-0.333527
-0.001451	-1.062445	-75.152723	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.242597	9.128390	0.461285
0.000363	1.155689	12.478987	
0.25000	0.242597	18.230742	0.461285
0.000363	0.596530	41.217581	
0.50000	0.242597	40.196694	0.461285
0.000363	0.057071	58.633335	
0.75000	0.242597	64.165008	0.461285
0.000363	0.409200	43.686308	
1.00000	0.242597	85.215578	0.461285
0.000363	0.823048	16.763232	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.284404	-86.899026	-0.339779
-0.001273	-0.874003	-59.001090	
0.25000	-0.284404	-65.947700	-0.339779
-0.001273	-0.453739	-25.593538	
0.50000	-0.284404	-41.998032	-0.339779
-0.001273	-0.044237	-24.983666	
0.75000	-0.284404	-19.971109	-0.339779
-0.001273	-0.576005	-24.626823	
1.00000	-0.284404	-10.439864	-0.339779
-0.001273	-1.146480	-56.289282	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250307	7.664959	0.440367
0.000717	1.104968	11.119334	
0.25000	0.250307	15.220056	0.440367
0.000717	0.569491	35.057158	
0.50000	0.250307	33.452146	0.440367
0.000717	0.051429	49.653266	
0.75000	0.250307	53.346229	0.440367
0.000717	0.378384	37.475373	
1.00000	0.250307	70.818537	0.440367
0.000717	0.764596	15.426860	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.298487	-72.417774	-0.316449
-0.001061	-0.814161	-50.513877	
0.25000	-0.298487	-55.027839	-0.316449
-0.001061	-0.422696	-22.662744	
0.50000	-0.298487	-35.146233	-0.316449
-0.001061	-0.041721	-22.085610	
0.75000	-0.298487	-16.866537	-0.316449
-0.001061	-0.546707	-21.769284	
1.00000	-0.298487	-8.955452	-0.316449
-0.001061	-1.091465	-48.108201	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.091588	8.859131	0.142646
0.000173	0.355701	9.279778	
0.25000	0.091588	17.845529	0.142646
0.000173	0.041343	37.347305	
0.50000	0.091588	39.531660	0.142646
0.000173	0.041343	54.062073	
0.75000	0.091588	63.194646	0.142646
0.000173	0.103850	38.750000	
1.00000	0.091588	83.977056	0.142646
0.000173	0.197094	11.274043	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112147	-84.752211	-0.082383
-0.000164	-0.222457	-52.589488	
0.25000	-0.112147	-64.067781	-0.082383
-0.000164	-0.123212	-20.298595	
0.50000	-0.112147	-40.423204	-0.082383
-0.000164	-0.029689	-20.249210	
0.75000	-0.112147	-18.676879	-0.082383
-0.000164	-0.188722	-20.300476	
1.00000	-0.112147	-9.267051	-0.082383
-0.000164	-0.362613	-51.612259	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.114121	8.531198	0.221335
0.000604	0.556777	10.355939	
0.25000	0.114121	17.106928	0.221335
0.000604	0.295004	37.302791	
0.50000	0.114121	37.802026	0.221335
0.000604	0.047332	53.525576	
0.75000	0.114121	60.385939	0.221335
0.000604	0.144632	39.204610	
1.00000	0.114121	80.216315	0.221335
0.000604	0.289791	13.451002	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.170926	-81.369871	-0.123397
-5.80E-05	-0.331523	-52.906614	
0.25000	-0.170926	-61.630697	-0.123397
-5.80E-05	-0.180373	-21.798986	
0.50000	-0.170926	-39.066651	-0.123397
-5.80E-05	-0.035930	-21.537858	
0.75000	-0.170926	-18.314110	-0.123397
-5.80E-05	-0.279710	-21.461613	
1.00000	-0.170926	-9.334301	-0.123397
-5.80E-05	-0.552012	-51.393773	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.204613	5.907507	0.393536
0.000549	0.509117	9.967167	
0.25000	0.204613	11.480523	0.393536
0.000549	0.508527	27.478367	
0.50000	0.204613	24.929422	0.393536
0.000549	0.043839	38.246506	
0.75000	0.204613	39.604290	0.393536
0.000549	0.325182	29.606366	
1.00000	0.204613	52.492736	0.393536
0.000549	0.660477	13.824273	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.263929	-54.002386	-0.273868
-0.000881	-0.705035	-39.331405	
0.25000	-0.263929	-41.174703	-0.273868
-0.000881	-0.365710	-18.758932	
0.50000	-0.263929	-26.511251	-0.273868
-0.000881	-0.034892	-17.973544	
0.75000	-0.263929	-13.025023	-0.273868
-0.000881	-0.485126	-17.557833	
1.00000	-0.263929	-7.189411	-0.273868
-0.000881	-0.972633	-36.695815	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.230365	5.025824	0.385618
0.000865	0.969703	8.938708	
0.25000	0.230365	9.706240	0.385618
0.000865	0.497734	23.759372	
0.50000	0.230365	21.001100	0.385618
0.000865	0.040133	32.951070	
0.75000	0.230365	33.325572	0.385618
0.000865	0.307958	25.880213	
1.00000	0.230365	44.149743	0.385618
0.000865	0.628695	12.867306	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.290495	-45.569732	-0.261375
-0.000734	-0.673116	-34.416829	
0.25000	-0.290495	-34.796591	-0.261375
-0.000734	-0.349221	-17.052762	
0.50000	-0.290495	-22.481707	-0.261375
-0.000734	-0.034079	-16.357854	
0.75000	-0.290495	-11.155496	-0.261375
-0.000734	-0.473472	-16.027275	
1.00000	-0.290495	-6.254544	-0.261375
-0.000734	-0.951380	-32.165913	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102035	0.126600	0.089209
0.000644	0.225159	0.893966	
0.25000	0.102035	0.134652	0.089209
0.000644	0.114278	1.080860	
0.50000	0.102035	0.154084	0.089209
0.000644	0.005402	1.309545	
0.75000	0.102035	0.175287	0.089209
0.000644	0.056948	1.580806	
1.00000	0.102035	0.193910	0.089209
0.000644	0.119960	1.930174	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.123774	-0.421729	-0.050892
-3.11E-07	-0.131086	-2.202751	
0.25000	-0.123774	-0.403194	-0.050892
-3.11E-07	-0.068136	-2.057789	
0.50000	-0.123774	-0.382007	-0.050892
-3.11E-07	-0.007535	-2.004712	
0.75000	-0.123774	-0.362521	-0.050892
-3.11E-07	-0.107098	-2.023570	
1.00000	-0.123774	-0.354090	-0.050892
-3.11E-07	-0.217904	-2.171835	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.146705	0.507757	0.160015
0.001119	0.405697	2.239573	
0.25000	0.146705	0.773484	0.160015
0.001119	0.207716	3.311353	
0.50000	0.146705	1.414740	0.160015
0.001119	0.011989	4.177241	
0.75000	0.146705	2.114452	0.160015
0.001119	0.104090	4.290992	
1.00000	0.146705	2.728986	0.160015
0.001119	0.219076	4.251319	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.191193	-3.262636	-0.092769
-2.05E-06	-0.240050	-4.754457	
0.25000	-0.191193	-2.651200	-0.092769
-2.05E-06	-0.125056	-4.506020	
0.50000	-0.191193	-1.952032	-0.092769
-2.05E-06	-0.014346	-4.334145	
0.75000	-0.191193	-1.308996	-0.092769
-2.05E-06	-0.191414	-4.299025	
1.00000	-0.191193	-1.030748	-0.092769
-2.05E-06	-0.390113	-5.371019	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.170716	0.435829	0.238104
0.001209	0.603363	3.895994	
0.25000	0.170716	0.443076	0.238104
0.001209	0.306884	4.145245	
0.50000	0.170716	0.460564	0.238104
0.001209	0.018412	4.656499	
0.75000	0.170716	0.479848	0.238104
0.001209	0.144057	5.541482	
1.00000	0.170716	0.496408	0.238104
0.001209	0.306737	6.796440	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.243383	-1.417954	-0.131086
-2.82E-06	-0.340604	-6.657224	
0.25000	-0.243383	-1.401273	-0.131086
-2.82E-06	-0.177925	-6.001361	
0.50000	-0.243383	-1.382205	-0.131086
-2.82E-06	-0.019261	-5.557930	
0.75000	-0.243383	-1.364668	-0.131086
-2.82E-06	-0.282975	-5.316374	
1.00000	-0.243383	-1.357079	-0.131086
-2.82E-06	-0.579465	-5.496153	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.228837	5.424290	0.347872
0.001003	0.875565	8.968156	
0.25000	0.228837	10.497256	0.347872
0.001003	0.450858	24.993102	
0.50000	0.228837	22.739427	0.347872
0.001003	0.040506	34.865475	
0.75000	0.228837	36.097564	0.347872
0.001003	0.260565	27.080993	
1.00000	0.228837	47.829570	0.347872
0.001003	0.531608	12.783035	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.296613	-49.161469	-0.222404
-0.000488	-0.576129	-36.181588	
0.25000	-0.296613	-37.484774	-0.222404
-0.000488	-0.301382	-17.349077	
0.50000	-0.296613	-24.137029	-0.222404
-0.000488	-0.034500	-16.880187	
0.75000	-0.296613	-11.860878	-0.222404
-0.000488	-0.487731	-16.640321	
1.00000	-0.296613	-6.548878	-0.222404
-0.000488	-0.858461	-34.294355	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167859	11.033120	0.324611
0.001303	0.804527	17.252581	
0.25000	0.167859	33.358586	0.324611
0.001303	0.414504	72.702048	
0.50000	0.167859	62.972204	0.324611
0.001303	0.064078	99.467455	
0.75000	0.167859	90.866171	0.324611
0.001303	0.262688	77.590852	
1.00000	0.167859	120.277637	0.324611
0.001303	0.524569	20.258222	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.215878	-121.386520	-0.210661
-0.001514	-0.529524	-83.700834	
0.25000	-0.215878	-91.629097	-0.210661
-0.001514	-0.271824	-32.229728	
0.50000	-0.215878	-63.781108	-0.210661
-0.001514	-0.054980	-32.058020	
0.75000	-0.215878	-34.110016	-0.210661
-0.001514	-0.416543	-32.622258	
1.00000	-0.215878	-11.564722	-0.210661
-0.001514	-0.819991	-83.385993	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250307	12.574773	0.461285
0.001209	1.155689	14.001693	
0.25000	0.250307	25.394079	0.461285
0.001209	0.596530	54.279559	
0.50000	0.250307	56.329850	0.461285
0.001209	0.064045	78.392977	
0.75000	0.250307	90.085651	0.461285
0.001209	0.412572	56.688187	
1.00000	0.250307	119.732243	0.461285
0.001209	0.823048	17.740403	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.298487	−121.212533	−0.339779
−0.001451	−0.874003	−77.392181	
0.25000	−0.298487	−91.705711	−0.339779
−0.001451	−0.453739	−31.022189	
0.50000	−0.298487	−57.976171	−0.339779
−0.001451	−0.047882	−30.697209	
0.75000	−0.298487	−26.954532	−0.339779
−0.001451	−0.576005	−30.567994	
1.00000	−0.298487	−13.531193	−0.339779
−0.001451	−1.146480	−75.152723	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250307	12.574773	0.461285
0.001303	1.155689	17.252581	
0.25000	0.250307	33.358586	0.461285
0.001303	0.596530	72.702048	
0.50000	0.250307	62.972204	0.461285
0.001303	0.064078	99.465735	
0.75000	0.250307	90.866171	0.461285
0.001303	0.412572	77.590852	
1.00000	0.250307	120.277637	0.461285
0.001303	0.823048	20.258222	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4031

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.298487	−121.386520	−0.339779
−0.001514	−0.874003	−83.700834	
0.25000	−0.298487	−91.705711	−0.339779
−0.001514	−0.453739	−32.229728	
0.50000	−0.298487	−63.781108	−0.339779
−0.001514	−0.054980	−32.058020	
0.75000	−0.298487	−34.110016	−0.339779
−0.001514	−0.576005	−32.622258	
1.00000	−0.298487	−13.531193	−0.339779
−0.001514	−1.146480	−83.385993	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250307	12.574773	0.461285
0.001303	1.155689	17.252581	
0.25000	0.250307	33.358586	0.461285
0.001303	0.596530	72.702048	
0.50000	0.250307	62.972204	0.461285
0.001303	0.064078	99.465735	
0.75000	0.250307	90.866171	0.461285
0.001303	0.412572	77.590852	
1.00000	0.250307	120.277637	0.461285
0.001303	0.823048	20.258222	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.298487	−121.386520	−0.339779
−0.001514	−0.874003	−83.700834	
0.25000	−0.298487	−91.705711	−0.339779
−0.001514	−0.453739	−32.229728	
0.50000	−0.298487	−63.781108	−0.339779
−0.001514	−0.054980	−32.058020	
0.75000	−0.298487	−34.110016	−0.339779
−0.001514	−0.576005	−32.622258	
1.00000	−0.298487	−13.531193	−0.339779
−0.001514	−1.146480	−83.385993	

ELEM 388 ========== LENGTH = 4.972697

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102283	0.142407	0.175568
5.61E−06	0.441194	4.508250	
0.25000	0.102283	0.166454	0.175568
5.61E−06	0.223050	4.948665	
0.50000	0.102283	0.198221	0.175568
5.61E−06	0.017391	5.529319	
0.75000	0.102283	0.228099	0.175568
5.61E−06	0.186703	6.252190	
1.00000	0.102283	0.259697	0.175568
5.61E−06	0.373974	7.016226	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.086719	−0.931674	−0.150639
−0.001051	−0.375110	−2.466976	
0.25000	−0.086719	−0.899983	−0.150639
−0.001051	−0.187839	−2.379782	
0.50000	−0.086719	−0.870120	−0.150639
−0.001051	−0.007099	−2.346988	
0.75000	−0.086719	−0.838345	−0.150639
−0.001051	−0.213975	−2.315304	
1.00000	−0.086719	−0.814174	−0.150639
−0.001051	−0.432131	−2.337758	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.182745	10.991170	0.283020
5.82E−05	0.713818	20.211420	
0.25000	0.182745	33.403228	0.283020
5.82E−05	0.375103	76.852726	
0.50000	0.182745	63.310490	0.283020
5.82E−05	0.074998	103.183580	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4032

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.182745	90.856709	0.283020
5.82E−05	0.259763	81.471351	
1.00000	0.182745	120.305612	0.283020
5.82E−05	0.520875	24.438666	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.196429	−121.675386	−0.210025
−0.001338	−0.523512	−83.382899	
0.25000	−0.196429	−92.139808	−0.210025
−0.001338	−0.262402	−31.979380	
0.50000	−0.196429	−64.307305	−0.210025
−0.001338	−0.052244	−31.276179	
0.75000	−0.196429	−34.692791	−0.210025
−0.001338	−0.367698	−31.607938	
1.00000	−0.196429	−12.165708	−0.210025
−0.001338	−0.719337	−82.395482	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.175493	7.589585	0.300741
0.000387	0.765243	18.969069	
0.25000	0.175493	22.847580	0.300741
0.000387	0.400720	59.225540	
0.50000	0.175493	43.004025	0.300741
0.000387	0.071066	76.337554	
0.75000	0.175493	61.961564	0.300741
0.000387	0.241388	62.357755	
1.00000	0.175493	82.010200	0.300741
0.000387	0.485152	24.482291	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.242093	−83.744436	−0.195980
−0.001344	−0.489339	−59.323091	
0.25000	−0.242099	−63.636793	−0.195980
−0.001344	−0.247417	−24.319945	
0.50000	−0.242099	−44.688592	−0.195980
−0.001344	−0.043491	−23.833270	
0.75000	−0.242099	−24.527209	−0.195980
−0.001344	−0.374881	−24.051269	
1.00000	−0.242099	−9.190905	−0.195980
−0.001344	−0.748276	−58.619296	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197782	6.369993	0.286399
0.000685	0.725694	17.293067	
0.25000	0.197782	19.030882	0.286399
0.000685	0.377405	50.866098	
0.50000	0.197782	35.756444	0.286399
0.000685	0.066321	65.304764	
0.75000	0.197782	51.487782	0.286399
0.000685	0.229584	53.990600	
1.00000	0.197782	68.123270	0.286399
0.000685	0.459922	22.896430	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.244853	−69.786457	−0.185185
−0.001119	−0.460916	−50.434781	
0.25000	−0.244853	−53.101391	−0.185185
−0.001119	−0.231732	−21.405303	
0.50000	−0.244853	−37.378415	−0.185185
−0.001119	−0.040113	−21.017237	
0.75000	−0.244853	−20.648757	−0.185185
−0.001119	−0.357784	−21.213940	
1.00000	−0.244853	−7.922888	−0.185185
−0.001119	−0.713440	−49.913874	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.073044	9.186304	0.100963
0.000183	0.258523	14.351318	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4033

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.073044	27.943177	0.100963
0.000183	0.144074	63.163682	
0.50000	0.073044	52.721787	0.100963
0.000183	0.052594	83.170977	
0.75000	0.073044	76.026563	0.100963
0.000183	0.053541	64.542430	
1.00000	0.073044	100.672640	0.100963
0.000183	0.108163	16.322657	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.120412	−101.404147	−0.043908
−0.000219	−0.110161	−68.310892	
0.25000	−0.120412	−76.685531	−0.043908
−0.000219	−0.055523	−25.319586	
0.50000	−0.120412	−53.392234	−0.043908
−0.000219	−0.039422	−24.759876	
0.75000	−0.120412	−28.607555	−0.043908
−0.000219	−0.139675	−25.066336	
1.00000	−0.120412	−9.754417	−0.043908
−0.000219	−0.265190	−67.599756	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.111273	8.561533	0.145624
0.000606	0.375190	16.137477	
0.25000	0.111273	26.019853	0.145624
0.000606	0.204686	62.209837	
0.50000	0.111273	49.083021	0.145624
0.000606	0.062398	81.217087	
0.75000	0.111273	70.774389	0.145624
0.000606	0.066362	64.417131	
1.00000	0.111273	93.714010	0.145624
0.000606	0.134201	20.183895	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.188863	−94.925820	−0.054433
−0.000258	−0.136448	−65.417008	
0.25000	−0.188863	−71.918492	−0.054433
−0.000258	−0.070002	−25.410105	
0.50000	−0.188863	−50.237808	−0.054433
−0.000258	−0.042498	−24.897225	
0.75000	−0.188863	−27.168992	−0.054433
−0.000258	−0.188594	−25.183609	
1.00000	−0.188863	−9.621070	−0.054433
−0.000258	−0.369270	−64.787597	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167988	6.266827	0.255489
0.000550	0.651085	17.339069	
0.25000	0.167988	18.624721	0.255489
0.000550	0.341112	49.935947	
0.50000	0.167988	34.950012	0.255489
0.000550	0.064460	63.326087	
0.75000	0.167988	50.304274	0.255489
0.000550	0.189051	52.868691	
1.00000	0.167988	66.542248	0.255489
0.000550	0.379994	22.598784	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.241247	−68.262545	−0.153448
−0.001038	−0.383056	−48.898112	
0.25000	−0.241247	−51.976779	−0.153448
−0.001038	−0.193027	−20.555962	
0.50000	−0.241247	−36.630880	−0.153448
−0.001038	−0.037950	−20.169705	
0.75000	−0.241247	−20.300790	−0.153448
−0.001038	−0.316940	−20.354159	
1.00000	−0.241247	−7.879472	−0.153448
−0.001038	−0.634135	−48.359748	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4034

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.181492	5.315033	0.250738
0.000808	0.635900	15.696711	
0.25000	0.181492	15.667384	0.250738
0.000808	0.330584	43.237829	
0.50000	0.181492	29.343271	0.250738
0.000808	0.060354	55.186545	
0.75000	0.181492	42.205714	0.250738
0.000808	0.186486	46.152902	
1.00000	0.181492	55.808453	0.250738
0.000808	0.373037	21.020377	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.245459	−57.389254	−0.150005
−0.000866	−0.372885	−42.099401	
0.25000	−0.245459	−43.746479	−0.150005
−0.000866	−0.167348	−18.377394	
0.50000	−0.245459	−30.890371	−0.150005
−0.000866	−0.035694	−18.074558	
0.75000	−0.245459	−17.211135	−0.150005
−0.000866	−0.311924	−18.249885	
1.00000	−0.245459	−6.805652	−0.150005
−0.000866	−0.623291	−41.731286	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.074330	0.116966	0.059681
0.000543	0.147174	1.807668	
0.25000	0.074330	0.141013	0.059681
0.000543	0.073077	2.185778	
0.50000	0.074330	0.172781	0.059681
0.000543	0.009834	2.550030	
0.75000	0.074330	0.202659	0.059681
0.000543	0.047443	2.879718	
1.00000	0.074330	0.234256	0.059681
0.000543	0.092547	3.186004	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.089644	−0.449746	−0.036330
−4.60E−07	−0.089644	−1.838104	
0.25000	−0.089644	−0.418055	−0.036330
−4.60E−07	−0.042979	−1.817603	
0.50000	−0.089644	−0.388192	−0.036330
−4.60E−07	−0.006170	−1.851909	
0.75000	−0.089644	−0.356417	−0.036330
−4.60E−07	−0.075501	−1.887333	
1.00000	−0.089644	−0.328246	−0.036330
−4.60E−07	−0.149711	−1.976893	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.147544	0.537716	0.100554
0.000963	0.250713	4.420445	
0.25000	0.147544	1.259194	0.100554
0.000963	0.126184	6.732378	
0.50000	0.147544	2.212218	0.100554
0.000963	0.021026	8.123366	
0.75000	0.147544	3.105555	0.100554
0.000963	0.079131	8.120823	
1.00000	0.147544	4.056481	0.100554
0.000963	0.154843	7.098205	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.147821	−4.625851	−0.060907
−2.06E−06	−0.148045	−5.768322	
0.25000	−0.147821	−3.675135	−0.060907
−2.06E−06	−0.072412	−4.162161	
0.50000	−0.147821	−2.779239	−0.060907
−2.06E−06	−0.012146	−4.188413	
0.75000	−0.147821	−1.825982	−0.060907
−2.06E−06	−0.126842	−4.248014	
1.00000	−0.147821	−1.100861	−0.060907
−2.06E−06	−0.250858	−5.931729	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4035

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.141417	0.825357	0.153284
0.001106	0.389859	8.061153	
0.25000	0.141417	1.972412	0.153284
0.001106	0.200361	11.660183	
0.50000	0.141417	3.487719	0.153284
0.001106	0.033867	13.776501	
0.75000	0.141417	4.912896	0.153284
0.001106	0.085396	13.821287	
1.00000	0.141417	6.420099	0.153284
0.001106	0.169625	12.258996	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.213388	−7.499574	−0.067601
−0.000207	−0.166568	−8.638827	
0.25000	−0.213388	−5.987936	−0.067601
−0.000207	−0.083094	−6.048670	
0.50000	−0.213388	−4.563461	−0.067601
−0.000207	−0.017066	−6.053758	
0.75000	−0.213388	−3.047783	−0.067601
−0.000207	−0.130868	−6.111875	
1.00000	−0.213388	−1.894841	−0.067601
−0.000207	−0.374114	−8.752421	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.180686	6.237963	0.227993
0.000981	0.578168	16.051549	
0.25000	0.180686	18.466001	0.227993
0.000981	0.302192	48.430009	
0.50000	0.180686	34.619748	0.227993
0.000981	0.056249	62.284259	
0.75000	0.180686	49.812669	0.227993
0.000981	0.157277	51.240730	
1.00000	0.180686	65.880016	0.227993
0.000981	0.314080	21.093387	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.257115	−67.335586	−0.126031
−0.000632	−0.312641	−48.580097	
0.25000	−0.257115	−51.220950	−0.126031
−0.000632	−0.156903	−20.575254	
0.50000	−0.257115	−36.035512	−0.126031
−0.000632	−0.038813	−20.232873	
0.75000	−0.257115	−19.877808	−0.126031
−0.000632	−0.286867	−20.455237	
1.00000	−0.257115	−7.587012	−0.126031
−0.000632	−0.569938	−48.206371	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.194756	0.203616	0.250221
5.11E−06	0.634690	3.754568	
0.25000	0.194756	0.211754	0.250221
5.11E−06	0.323703	4.453356	
0.50000	0.194756	0.231188	0.250221
5.11E−06	0.018147	5.195129	
0.75000	0.194756	0.252360	0.250221
5.11E−06	0.264255	5.977341	
1.00000	0.194756	0.270948	0.250221
5.11E−06	0.536322	6.779216	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.120631	−0.919085	−0.218986
−0.000992	−0.550946	−2.767770	
0.25000	−0.120631	−0.900496	−0.218986
−0.000992	−0.278852	−2.904587	
0.50000	−0.120631	−0.879318	−0.218986
−0.000992	−0.008747	−3.069854	
0.75000	−0.120631	−0.859867	−0.218986
−0.000992	−0.298768	−3.235825	
1.00000	−0.120631	−0.851672	−0.218986
−0.000992	−0.609766	−3.429391	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4036

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.288632	12.868741	0.391295
4.41E−05	0.993779	17.647374	
0.25000	0.288632	25.922977	0.391295
4.41E−05	0.526395	58.722462	
0.50000	0.288632	56.762089	0.391295
4.41E−05	0.077992	82.939002	
0.75000	0.288632	90.468750	0.391295
4.41E−05	0.380662	61.271239	
1.00000	0.288632	120.060510	0.391295
4.41E−05	0.749931	22.308984	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.288381	−121.222957	−0.308109
−0.001229	−0.792838	−75.082559	
0.25000	−0.288381	−91.630100	−0.308109
−0.001229	−0.414756	−29.960131	
0.50000	−0.288381	−57.914676	−0.308109
−0.001229	−0.044750	−30.109786	
0.75000	−0.288381	−26.948670	−0.308109
−0.001229	−0.487539	−30.375581	
1.00000	−0.288381	−13.901844	−0.308109
−0.001229	−0.968944	−75.536116	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.278278	9.347386	0.413167
0.000312	1.057132	16.661696	
0.25000	0.278278	18.545545	0.413167
0.000312	0.556670	46.460560	
0.50000	0.278278	40.513869	0.413167
0.000312	0.075974	64.368273	
0.75000	0.278278	64.447292	0.413167
0.000312	0.364120	49.801443	
1.00000	0.278278	85.458929	0.413167
0.000312	0.729713	23.012405	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.321100	−86.944145	−0.301374
−0.001238	−0.774865	−56.215367	
0.25000	−0.321100	−65.931730	−0.301374
−0.001238	−0.402944	−24.387606	
0.50000	−0.321100	−41.992084	−0.301374
−0.001238	−0.041661	−24.703382	
0.75000	−0.321100	−20.004664	−0.301374
−0.001238	−0.498223	−25.102429	
1.00000	−0.321100	−10.740762	−0.301374
−0.001238	−1.008664	−57.378487	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294627	7.876761	0.391531
0.000578	1.001690	15.339806	
0.25000	0.294627	15.511378	0.391531
0.000578	0.525960	40.359906	
0.50000	0.294627	33.745437	0.391531
0.000578	0.071597	55.524182	
0.75000	0.294627	53.610560	0.391531
0.000578	0.333720	43.778329	
1.00000	0.294627	71.050553	0.391531
0.000578	0.669409	21.901588	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.334053	−72.492837	−0.276732
−0.001031	−0.710941	−48.051754	
0.25000	−0.334053	−55.052198	−0.276732
−0.001031	−0.369125	−21.762936	
0.50000	−0.334053	−35.181911	−0.276732
−0.001031	−0.039825	−22.153490	
0.75000	−0.334053	−16.932002	−0.276732
−0.001031	−0.470731	−22.612706	
1.00000	−0.334053	−9.242816	−0.276732
−0.001031	−0.954570	−49.530444	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4037

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102962	9.059503	0.125355
0.000154	0.322445	11.248201	
0.25000	0.102962	18.140488	0.125355
0.000154	0.179409	39.678237	
0.50000	0.102962	39.826960	0.125355
0.000154	0.048437	56.220149	
0.75000	0.102962	63.457500	0.125355
0.000154	0.086942	40.865485	
1.00000	0.102962	84.201472	0.125355
0.000154	0.163075	13.302029	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	−0.190873	−84.750913	−0.068798
−0.000201	−0.187612	−51.605966	
0.25000	−0.190873	−64.006172	−0.068798
−0.000201	−0.105497	−19.922692	
0.50000	−0.190873	−40.371490	−0.068798
−0.000201	−0.028227	−19.977602	
0.75000	−0.190873	−18.664164	−0.068798
−0.000201	−0.160022	−20.112286	
1.00000	−0.190873	−9.518274	−0.068798
−0.000201	−0.312913	−51.718673	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.141590	8.738327	0.186070
0.000500	0.482613	13.413345	
0.25000	0.141590	17.404320	0.186070
0.000500	0.263623	41.051559	
0.50000	0.141590	38.101653	0.186070
0.000500	0.060943	57.460104	
0.75000	0.141590	60.650393	0.186070
0.000500	0.111978	43.255556	
1.00000	0.141590	80.446388	0.186070
0.000500	0.218935	17.508102	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.246422	-81.399703	-0.093398
-0.000244	-0.251972	-51.385349	
0.25000	-0.246422	-61.602975	-0.093398
-0.000244	-0.138635	-21.324944	
0.50000	-0.246422	-39.048372	-0.093398
-0.000244	-0.034616	-21.548522	
0.75000	-0.246422	-18.333048	-0.093398
-0.000244	-0.224756	-21.851040	
1.00000	-0.246422	-9.605115	-0.093398
-0.000244	-0.453119	-52.185995	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.235110	6.048385	0.346597
0.000455	0.890394	13.741071	
0.25000	0.235110	11.680060	0.346597
0.000455	0.467222	32.260776	
0.50000	0.235110	25.130412	0.346597
0.000455	0.061181	43.641339	
0.75000	0.235110	39.783917	0.346597
0.000455	0.280924	35.497933	
1.00000	0.235110	52.648526	0.346597
0.000455	0.568729	19.911668	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.323106	-54.060745	-0.235749
-0.000931	-0.606859	-36.639887	
0.25000	-0.323106	-41.195660	-0.235749
-0.000931	-0.315546	-17.525037	
0.50000	-0.323106	-26.538345	-0.235749
-0.000931	-0.033164	-17.682431	
0.75000	-0.323106	-13.076302	-0.235749
-0.000931	-0.410721	-18.094103	
1.00000	-0.323106	-7.404375	-0.235749
-0.000931	-0.840031	-38.022389	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.246032	5.182265	0.337940
0.000711	0.867016	12.797704	
0.25000	0.246032	9.911945	0.337940
0.000711	0.453570	28.649956	
0.50000	0.246032	21.208024	0.337940
0.000711	0.059981	36.506672	
0.75000	0.246032	33.514555	0.337940
0.000711	0.264147	31.961107	
1.00000	0.246032	44.318707	0.337940
0.000711	0.534201	19.170741	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.345304	-45.665923	-0.221590
-0.000776	-0.569613	-32.127113	
0.25000	-0.345304	-34.861371	-0.221590
-0.000776	-0.295486	-16.205221	
0.50000	-0.345304	-22.551641	-0.221590
-0.000776	-0.032949	-16.417180	
0.75000	-0.345304	-11.245742	-0.221590
-0.000776	-0.400991	-16.949463	
1.00000	-0.345304	-6.482257	-0.221590
-0.000776	-0.819177	-33.818412	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.079598	0.184582	0.076777
0.000514	0.194849	1.931192	
0.25000	0.079598	0.192719	0.076777
0.000514	0.099637	2.404085	
0.50000	0.079598	0.212153	0.076777
0.000514	0.011936	2.869196	
0.75000	0.079598	0.233325	0.076777
0.000514	0.047494	3.313544	
1.00000	0.079598	0.251913	0.076777
0.000514	0.093683	3.753451	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.141867	-0.494398	-0.038827
-2.71E-07	-0.097899	-2.185420	
0.25000	-0.141867	-0.475810	-0.038827
-2.71E-07	-0.050018	-2.367619	
0.50000	-0.141867	-0.454632	-0.038827
-2.71E-07	-0.008066	-2.577513	
0.75000	-0.141867	-0.435181	-0.038827
-2.71E-07	-0.093331	-2.785529	
1.00000	-0.141867	-0.426986	-0.038827
-2.71E-07	-0.187132	-3.023678	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.163843	0.596647	0.134731
0.000882	0.345033	4.245421	
0.25000	0.163843	0.865171	0.134731
0.000882	0.177972	5.868935	
0.50000	0.163843	1.506496	0.134731
0.000882	0.024116	7.171025	
0.75000	0.163843	2.205190	0.134731
0.000882	0.084349	7.596800	
1.00000	0.163843	2.818587	0.134731
0.000882	0.169978	7.710578	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.217837	-3.367856	-0.070992
-1.52E-06	-0.181117	-5.386983	
0.25000	-0.217837	-2.754436	-0.070992
-1.52E-06	-0.093239	-4.799271	
0.50000	-0.217837	-2.055561	-0.070992
-1.52E-06	-0.015021	-5.148725	
0.75000	-0.217837	-1.413678	-0.070992
-1.52E-06	-0.160063	-5.500462	
1.00000	-0.217837	-1.143235	-0.070992
-1.52E-06	-0.325650	-6.782802	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171847	0.516704	0.197519
0.000980	0.511022	6.768888	
0.25000	0.171847	0.524027	0.197519
0.000980	0.265178	7.847208	
0.50000	0.171847	0.541518	0.197519
0.000980	0.035326	9.054618	
0.75000	0.171847	0.560573	0.197519
0.000980	0.108080	10.495329	
1.00000	0.171847	0.577302	0.197519
0.000980	0.224848	11.993325	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.297822	-1.537626	-0.095552
-0.000202	-0.246369	-5.498062	
0.25000	-0.297822	-1.520896	-0.095552
-0.000202	-0.128064	-5.940588	
0.50000	-0.297822	-1.501836	-0.095552
-0.000202	-0.019704	-6.405786	
0.75000	-0.297822	-1.484330	-0.095552
-0.000202	-0.225732	-6.871653	
1.00000	-0.297822	-1.476954	-0.095552
-0.000202	-0.470415	-7.362689	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.237688	5.603877	0.302166
0.000888	0.775773	12.728092	
0.25000	0.237688	10.730239	0.302166
0.000888	0.407366	29.735609	
0.50000	0.237688	22.973732	0.302166
0.000888	0.059780	40.207684	
0.75000	0.237688	36.312423	0.302166
0.000888	0.218338	32.891931	
1.00000	0.237688	48.022730	0.302166
0.000888	0.439286	18.786468	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.378506	-49.264569	-0.183113
-0.000588	-0.473120	-34.277032	
0.25000	-0.378506	-37.553828	-0.183113
-0.000588	-0.247882	-16.783248	
0.50000	-0.378506	-24.211669	-0.183113
-0.000588	-0.033713	-17.215559	
0.75000	-0.378506	-11.957533	-0.183113
-0.000588	-0.359974	-17.670727	
1.00000	-0.378506	-6.794531	-0.183113
-0.000588	-0.732932	-35.902714	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197782	10.991170	0.300741
0.001106	0.765243	20.211420	
0.25000	0.197782	33.403228	0.300741
0.001106	0.400720	78.852726	
0.50000	0.197782	63.010490	0.300741
0.001106	0.074998	103.183580	
0.75000	0.197782	90.856709	0.300741
0.001106	0.259763	81.471351	
1.00000	0.197782	120.305612	0.300741
0.001106	0.520875	24.482291	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.257115	-121.675386	-0.210025
-0.001344	-0.523512	-83.382899	
0.25000	-0.257115	-92.139808	-0.210025
-0.001344	-0.262402	-31.979380	
0.50000	-0.257115	-64.307305	-0.210025
-0.001344	-0.052244	-31.276179	
0.75000	-0.257115	-34.692791	-0.210025
-0.001344	-0.374881	-31.607938	
1.00000	-0.257115	-12.165708	-0.210025
-0.001344	-0.748276	-82.395482	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294627	12.868741	0.413167
0.000980	1.057132	17.647374	
0.25000	0.294627	25.822977	0.413167
0.000980	0.556670	58.728182	
0.50000	0.294627	56.762089	0.413167
0.000980	0.077992	82.939002	
0.75000	0.294627	90.468750	0.413167
0.000980	0.380662	61.271239	
1.00000	0.294627	120.060510	0.413167
0.000980	0.749931	23.012405	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.378506	-121.222957	-0.308109
-0.001238	-0.792838	-75.082559	
0.25000	-0.378506	-92.139808	-0.308109
-0.001238	-0.414756	-29.960131	
0.50000	-0.378506	-57.914676	-0.308109
-0.001238	-0.044750	-30.109786	
0.75000	-0.378506	-26.948670	-0.308109
-0.001238	-0.498223	-30.375581	
1.00000	-0.378506	-13.901844	-0.308109
-0.001238	-1.008664	-75.536116	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294627	12.868741	0.413167
0.001106	1.057132	20.211420	
0.25000	0.294627	33.403228	0.413167
0.001106	0.556670	78.852726	
0.50000	0.294627	63.010490	0.413167
0.001106	0.077992	103.183580	
0.75000	0.294627	90.856709	0.413167
0.001106	0.380662	81.471351	
1.00000	0.294627	120.305612	0.413167
0.001106	0.749931	24.482291	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.378506	-121.675386	-0.308109
-0.001344	-0.792838	-83.382899	
0.25000	-0.378506	-92.139808	-0.308109
-0.001344	-0.414756	-31.979380	
0.50000	-0.378506	-64.307305	-0.308109
-0.001344	-0.052244	-31.276179	
0.75000	-0.378506	-34.692791	-0.308109
-0.001344	-0.498223	-31.607938	
1.00000	-0.378506	-13.901844	-0.308109
-0.001344	-1.008664	-82.395482	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294627	12.868741	0.413167
0.001106	1.057132	20.211420	
0.25000	0.294627	33.403228	0.413167
0.001106	0.556670	78.852726	
0.50000	0.294627	63.010490	0.413167
0.001106	0.077992	103.183580	
0.75000	0.294627	90.856709	0.413167
0.001106	0.380662	81.471351	
1.00000	0.294627	120.305612	0.413167
0.001106	0.749931	24.482291	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.378506	-121.675386	-0.308109
-0.001344	-0.792838	-83.382899	
0.25000	-0.378506	-92.139808	-0.308109
-0.001344	-0.414756	-31.979380	
0.50000	-0.378506	-64.307305	-0.308109
-0.001344	-0.052244	-31.276179	
0.75000	-0.378506	-34.692791	-0.308109
-0.001344	-0.498223	-31.607938	
1.00000	-0.378506	-13.901844	-0.308109
-0.001344	-1.008664	-82.395482	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 389 ========== LENGTH = 4.973117

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113189	0.325783	0.161919
0.000271	0.411397	6.992460	
0.25000	0.113189	0.349884	0.161919
0.000271	0.210289	7.018230	
0.50000	0.113189	0.381644	0.161919
0.000271	0.022640	7.149765	
0.75000	0.113189	0.411509	0.161919
0.000271	0.180795	7.452304	
1.00000	0.113189	0.443153	0.161919
0.000271	0.363900	7.844447	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.083933	-0.705174	-0.147282
-0.000804	-0.368553	-2.330172	
0.25000	-0.083933	-0.673502	-0.147282
-0.000804	-0.185440	-2.127721	
0.50000	-0.083933	-0.643642	-0.147282
-0.000804	-0.006253	-1.979292	
0.75000	-0.083933	-0.611879	-0.147282
-0.000804	-0.193209	-1.832108	
1.00000	-0.083933	-0.587728	-0.147282
-0.000804	-0.394459	-1.739085	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.202714	11.357284	0.253017
0.000382	0.654752	24.365922	
0.25000	0.202714	33.818679	0.253017
0.000382	0.348251	82.654054	
0.50000	0.202714	63.419554	0.253017
0.000382	0.084141	105.900648	
0.75000	0.202714	91.253682	0.253017
0.000382	0.248219	83.521923	
1.00000	0.202714	120.746030	0.253017
0.000382	0.501058	25.846127	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.188616	-121.241866	-0.203322
-0.001019	-0.510088	-82.424636	
0.25000	-0.188616	-91.724219	-0.203322
-0.001019	-0.257268	-31.180992	
0.50000	-0.188616	-63.894004	-0.203322
-0.001019	-0.049080	-30.285054	
0.75000	-0.188616	-34.291175	-0.203322
-0.001019	-0.323774	-30.549987	
1.00000	-0.188616	-11.782293	-0.203322
-0.001019	-0.638010	-81.293634	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.190872	8.113877	0.249467
0.000653	0.654557	24.402545	
0.25000	0.190872	23.405460	0.249467
0.000653	0.350395	63.986516	
0.50000	0.190872	43.557558	0.249467
0.000653	0.083290	79.905042	
0.75000	0.190872	62.506865	0.249467
0.000653	0.236174	65.046813	
1.00000	0.190872	82.585078	0.249467
0.000653	0.473425	26.342470	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.242400	-83.205640	-0.190925
-0.001143	-0.476939	-58.635104	
0.25000	-0.242400	-63.110204	-0.190925
-0.001143	-0.238959	-23.598976	
0.50000	-0.242400	-44.163560	-0.190925
-0.001143	-0.040288	-22.839264	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.242400	-24.010132	-0.190925
-0.001143	-0.301157	-22.869866	
1.00000	-0.242400	-8.686220	-0.190925
-0.001143	-0.610594	-57.266072	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.210451	6.828994	0.247064
0.000780	0.640791	22.836707	
0.25000	0.210451	19.517754	0.247064
0.000780	0.338595	55.690457	
0.50000	0.210451	36.239708	0.247064
0.000780	0.079273	68.966405	
0.75000	0.210451	51.963601	0.247064
0.000780	0.232943	56.763197	
1.00000	0.210451	68.624246	0.247064
0.000780	0.463366	24.831215	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.246891	-69.230586	-0.185530
-0.000981	-0.459483	-49.927363	
0.25000	-0.246891	-52.560269	-0.185530
-0.000981	-0.228827	-20.789167	
0.50000	-0.246891	-36.838586	-0.185530
-0.000981	-0.037028	-20.093103	
0.75000	-0.246891	-20.115529	-0.185530
-0.000981	-0.301538	-20.052831	
1.00000	-0.246891	-7.399942	-0.185530
-0.000981	-0.608221	-48.528699	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.083177	9.386952	0.078158
0.000200	0.213270	16.273115	
0.25000	0.083177	28.185116	0.078158
0.000200	0.122852	65.051551	
0.50000	0.083177	52.958381	0.078158
0.000200	0.057077	84.437717	
0.75000	0.083177	76.253037	0.078158
0.000200	0.046670	65.514243	
1.00000	0.083177	100.935474	0.078158
0.000200	0.096101	16.994853	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.114006	-101.191826	-0.039733
-0.000211	-0.101485	-67.630343	
0.25000	-0.114006	-76.488216	-0.039733
-0.000211	-0.052052	-24.838409	
0.50000	-0.114006	-53.196834	-0.039733
-0.000211	-0.037361	-24.182967	
0.75000	-0.114006	-28.421934	-0.039733
-0.000211	-0.107468	-24.499069	
1.00000	-0.114006	-9.584028	-0.039733
-0.000211	-0.204448	-67.061304	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.115140	8.909909	0.107326
0.000515	0.293410	20.129166	
0.25000	0.115140	26.406661	0.107326
0.000515	0.166499	65.455318	
0.50000	0.115140	49.464854	0.107326
0.000515	0.070884	83.570124	
0.75000	0.115140	71.146803	0.107326
0.000515	0.069865	66.220022	
1.00000	0.115140	94.122466	0.107326
0.000515	0.136886	21.446591	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192497	-94.554620	-0.054078
-0.000355	-0.132182	-64.814595	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.192497	-71.561260	-0.054078
-0.000355	-0.064971	-24.882188	
0.50000	-0.192497	-49.882359	-0.054078
-0.000355	-0.039961	-24.169132	
0.75000	-0.192497	-26.822644	-0.054078
-0.000355	-0.134887	-24.360359	
1.00000	-0.192497	-9.288901	-0.054078
-0.000355	-0.267754	-63.872987	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.175778	6.832826	0.209253
0.000718	0.550275	22.522721	
0.25000	0.175778	19.217924	0.209253
0.000718	0.295043	54.452875	
0.50000	0.175778	35.539694	0.209253
0.000718	0.076402	67.351688	
0.75000	0.175778	50.887289	0.209253
0.000718	0.186828	55.469239	
1.00000	0.175778	67.149218	0.209253
0.000718	0.372967	24.410993	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.247804	-67.751603	-0.149908
-0.000964	-0.372564	-48.372878	
0.25000	-0.247804	-51.475725	-0.149908
-0.000964	-0.186566	-19.949521	
0.50000	-0.247804	-36.130287	-0.149908
-0.000964	-0.035094	-19.287632	
0.75000	-0.247804	-19.807440	-0.149908
-0.000964	-0.250953	-19.265840	
1.00000	-0.247804	-7.396158	-0.149908
-0.000964	-0.510454	-47.077750	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.188749	5.778147	0.214931
0.000826	0.557659	20.967406	
0.25000	0.188749	16.153288	0.214931
0.000826	0.294545	47.805463	
0.50000	0.188749	29.826224	0.214931
0.000826	0.073035	58.695732	
0.75000	0.188749	42.683082	0.214931
0.000826	0.194707	48.822456	
1.00000	0.188749	56.305889	0.214931
0.000826	0.384834	22.888798	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.250573	-56.871826	-0.153110
-0.000798	-0.376987	-41.743752	
0.25000	-0.250573	-43.237354	-0.153110
-0.000798	-0.186700	-17.872075	
0.50000	-0.250573	-30.382283	-0.153110
-0.000798	-0.032896	-17.256500	
0.75000	-0.250573	-16.708444	-0.153110
-0.000798	-0.261380	-17.177144	
1.00000	-0.250573	-6.311369	-0.153110
-0.000798	-0.528060	-40.414403	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.069960	0.116084	0.064351
0.000347	0.157016	3.203057	
0.25000	0.069960	0.140184	0.064351
0.000347	0.077013	3.375570	
0.50000	0.069960	0.171945	0.064351
0.000347	0.013879	3.526582	
0.75000	0.069960	0.201810	0.064351
0.000347	0.062849	3.647037	
1.00000	0.069960	0.233454	0.064351
0.000347	0.119282	3.733045	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.092354	-0.314307	-0.045514
-4.81E-06	-0.107405	-1.980027	
0.25000	-0.092354	-0.282636	-0.045514
-4.81E-06	-0.050913	-1.830970	
0.50000	-0.092354	-0.252775	-0.045514
-4.81E-06	-0.005465	-1.735934	
0.75000	-0.092354	-0.221012	-0.045514
-4.81E-06	-0.083047	-1.642144	
1.00000	-0.092354	-0.196861	-0.045514
-4.81E-06	-0.163047	-1.602515	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.140392	0.605575	0.107313
0.000661	0.262331	7.117017	
0.25000	0.140392	1.329831	0.107313
0.000661	0.129133	9.048757	
0.50000	0.140392	2.281399	0.107313
0.000661	0.028443	9.983461	
0.75000	0.140392	3.177347	0.107313
0.000661	0.102085	9.562935	
1.00000	0.140392	4.126672	0.107313
0.000661	0.194616	8.129295	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.156095	-4.350227	-0.074626
-9.87E-05	-0.176734	-5.935521	
0.25000	-0.156095	-3.400089	-0.074626
-9.87E-05	-0.084158	-4.119237	
0.50000	-0.156095	-2.504266	-0.074626
-9.87E-05	-0.010909	-3.923587	
0.75000	-0.156095	-1.551385	-0.074626
-9.87E-05	-0.139010	-3.765304	
1.00000	-0.156095	-0.826851	-0.074626
-9.87E-05	-0.272438	-5.231873	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.137522	1.108297	0.128702
0.000826	0.332874	12.247048	
0.25000	0.137522	2.257877	0.128702
0.000826	0.173814	15.201058	
0.50000	0.137522	3.772857	0.128702
0.000826	0.044572	16.599772	
0.75000	0.137522	5.197415	0.128702
0.000826	0.105289	15.988114	
1.00000	0.137522	6.706841	0.128702
0.000826	0.200557	13.793850	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.221450	-7.100425	-0.077020
-0.000326	-0.182664	-8.754681	
0.25000	-0.221450	-5.589705	-0.077020
-0.000326	-0.087830	-5.889043	
0.50000	-0.221450	-4.165347	-0.077020
-0.000326	-0.015189	-5.600214	
0.75000	-0.221450	-2.650267	-0.077020
-0.000326	-0.150375	-5.370798	
1.00000	-0.221450	-1.498256	-0.077020
-0.000326	-0.309871	-7.724896	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.183088	6.636989	0.195865
0.000834	0.508431	21.048475	
0.25000	0.183088	18.891946	0.195865
0.000834	0.269662	52.808078	
0.50000	0.183088	35.042209	0.195865
0.000834	0.074542	65.629919	
0.75000	0.183088	50.228533	0.195865
0.000834	0.169975	53.801802	
1.00000	0.183088	66.319583	0.195865
0.000834	0.333428	22.891112	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4045
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.264071	-66.840617	-0.131764
-0.000618	-0.322094	-48.224845	
0.25000	-0.264071	-50.735764	-0.131764
-0.000618	-0.158417	-20.098061	
0.50000	-0.264071	-35.551575	-0.131764
-0.000618	-0.035905	-19.441029	
0.75000	-0.264071	-19.400246	-0.131764
-0.000618	-0.242135	-19.417368	
1.00000	-0.264071	-7.119380	-0.131764
-0.000618	-0.485126	-46.934937	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197914	0.390194	0.217007
0.000235	0.558961	6.726184	
0.25000	0.197914	0.398360	0.217007
0.000235	0.289221	6.982969	
0.50000	0.197914	0.417794	0.217007
0.000235	0.025382	7.266991	
0.75000	0.197914	0.438964	0.217007
0.000235	0.240806	7.604831	
1.00000	0.197914	0.457549	0.217007
0.000235	0.491956	7.959574	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.121280	-0.735254	-0.201604
-0.000690	-0.510153	-3.367793	
0.25000	-0.121280	-0.716669	-0.201604
-0.000690	-0.259121	-3.377187	
0.50000	-0.121280	-0.695498	-0.201604
-0.000690	-0.009346	-3.414463	
0.75000	-0.121280	-0.676057	-0.201604
-0.000690	-0.251016	-3.451566	
1.00000	-0.121280	-0.667875	-0.201604
-0.000690	-0.520605	-3.517094	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.301714	13.218776	0.331982
0.000315	0.85977	22.220807	
0.25000	0.301714	26.218631	0.331982
0.000315	0.465130	62.859175	
0.50000	0.301714	57.157839	0.331982
0.000315	0.090042	86.258716	
0.75000	0.301714	90.860319	0.331982
0.000315	0.347253	63.895634	
1.00000	0.301714	120.447015	0.331982
0.000315	0.674100	24.241330	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.285397	-120.978778	-0.277812
-0.000833	-0.724419	-75.499381	
0.25000	-0.285397	-91.391292	-0.277812
-0.000833	-0.381358	-30.488438	
0.50000	-0.285397	-57.687439	-0.277812
-0.000833	-0.044262	-30.274276	
0.75000	-0.285397	-26.737020	-0.277812
-0.000833	-0.405124	-30.348907	
1.00000	-0.285397	-13.711511	-0.277812
-0.000833	-0.811970	-75.362989	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.291771	9.821339	0.329606
0.000536	0.863261	22.912445	
0.25000	0.291771	19.051889	0.329606
0.000536	0.466991	51.944313	
0.50000	0.291771	41.020281	0.329606
0.000536	0.092366	68.825205	
0.75000	0.291771	64.950736	0.329606
0.000536	0.330132	53.312029	
1.00000	0.291771	85.958777	0.329606
0.000536	0.644256	25.613716	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4046
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.321933	-86.612379	-0.264507
-0.000949	-0.685335	-57.335076	
0.25000	-0.321933	-65.603778	-0.264507
-0.000949	-0.359085	-25.428658	
0.50000	-0.321933	-41.672348	-0.264507
-0.000949	-0.041958	-25.330077	
0.75000	-0.321933	-19.695995	-0.264507
-0.000949	-0.389971	-25.436933	
1.00000	-0.321933	-10.447230	-0.264507
-0.000949	-0.794378	-57.452850	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.306501	8.285433	0.321592
0.000646	0.831632	21.827963	
0.25000	0.306501	15.946936	0.321592
0.000646	0.443569	46.032640	
0.50000	0.306501	34.181052	0.321592
0.000646	0.089089	60.156082	
0.75000	0.306501	54.043710	0.321592
0.000646	0.324296	47.429562	
1.00000	0.306501	71.480719	0.321592
0.000646	0.626577	24.617859	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.341948	-72.127402	-0.253142
-0.000814	-0.644376	-49.504608	
0.25000	-0.341948	-54.689928	-0.253142
-0.000814	-0.332471	-23.358420	
0.50000	-0.341948	-34.326464	-0.253142
-0.000814	-0.040574	-23.013251	
0.75000	-0.341948	-16.585738	-0.253142
-0.000814	-0.387954	-23.138546	
1.00000	-0.341948	-8.909115	-0.253142
-0.000814	-0.783471	-49.748819	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.112980	9.230767	0.094132
0.000162	0.250800	13.262437	
0.25000	0.112980	18.343731	0.094132
0.000162	0.146288	41.566550	
0.50000	0.112980	40.032271	0.094132
0.000162	0.054275	57.789922	
0.75000	0.112980	63.657879	0.094132
0.000162	0.075002	42.059395	
1.00000	0.112980	84.398302	0.094132
0.000162	0.128701	14.193239	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.188444	-84.660900	-0.054196
-0.000180	-0.154376	-51.735901	
0.25000	-0.188444	-63.919924	-0.054196
-0.000180	-0.088818	-20.173902	
0.50000	-0.188444	-40.293353	-0.054196
-0.000180	-0.027699	-20.014241	
0.75000	-0.188444	-18.596954	-0.054196
-0.000180	-0.119963	-20.057142	
1.00000	-0.188444	-9.466007	-0.054196
-0.000180	-0.232782	-51.602741	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.152279	9.032656	0.130910
0.000424	0.349831	17.463181	
0.25000	0.152279	17.729167	0.130910
0.000424	0.200459	44.666919	
0.50000	0.152279	38.426564	0.130910
0.000424	0.072294	60.389854	
0.75000	0.152279	60.972507	0.130910
0.000424	0.107310	45.570021	
1.00000	0.152279	80.765115	0.130910
0.000424	0.185133	19.239946	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4047
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.252233	-81.201165	-0.074261
-0.000311	-0.199538	-52.205956	
0.25000	-0.252233	-61.408077	-0.074261
-0.000311	-0.110909	-22.133437	
0.50000	-0.252233	-38.861167	-0.074261
-0.000311	-0.034771	-22.027881	
0.75000	-0.252233	-18.156270	-0.074261
-0.000311	-0.162327	-22.116527	
1.00000	-0.252233	-9.442597	-0.074261
-0.000311	-0.321017	-52.267918	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.248882	6.512166	0.270017
0.000596	0.708916	19.819777	
0.25000	0.248882	12.161673	0.270017
0.000596	0.382024	37.538482	
0.50000	0.248882	25.612066	0.270017
0.000596	0.078350	47.939213	
0.75000	0.248882	40.263753	0.270017
0.000596	0.257312	38.871351	
1.00000	0.248882	53.126161	0.270017
0.000596	0.501780	22.434279	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.329678	-53.738279	-0.204474
-0.000820	-0.525890	-37.990260	
0.25000	-0.329678	-40.875529	-0.204474
-0.000820	-0.274021	-18.499691	
0.50000	-0.329678	-26.223244	-0.204474
-0.000820	-0.033873	-18.482449	
0.75000	-0.329678	-12.767978	-0.204474
-0.000820	-0.315536	-18.591059	
1.00000	-0.329678	-7.105318	-0.204474
-0.000820	-0.648937	-38.236136	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.254792	5.552965	0.278334
0.000691	0.717723	19.108572	
0.25000	0.254792	10.299301	0.278334
0.000691	0.378951	34.128130	
0.50000	0.254792	21.595415	0.278334
0.000691	0.077400	42.997066	
0.75000	0.254792	33.900419	0.278334
0.000691	0.269627	35.505290	
1.00000	0.254792	44.702723	0.278334
0.000691	0.519405	21.827697	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.355038	-45.305085	-0.207726
-0.000677	-0.521448	-33.805708	
0.25000	-0.355038	-34.502494	-0.207726
-0.000677	-0.265344	-17.474291	
0.50000	-0.355038	-22.196988	-0.207726
-0.000677	-0.033976	-17.497524	
0.75000	-0.355038	-10.896780	-0.207726
-0.000677	-0.334694	-17.626432	
1.00000	-0.355038	-6.141078	-0.207726
-0.000677	-0.678576	-34.162724	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.071913	0.162450	0.087545
0.000297	0.209238	3.778105	
0.25000	0.071913	0.171016	0.087545
0.000297	0.100237	4.003070	
0.50000	0.071913	0.190450	0.087545
0.000297	0.017931	4.222044	
0.75000	0.071913	0.211620	0.087545
0.000297	0.089892	4.414431	
1.00000	0.071913	0.230205	0.087545
0.000297	0.165553	4.602861	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4048
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.150853	-0.362094	-0.061216
-4.63E-06	-0.138039	-3.047376	
0.25000	-0.150853	-0.343509	-0.061216
-4.63E-06	-0.062128	-3.076347	
0.50000	-0.150853	-0.322338	-0.061216
-4.63E-06	-0.008712	-3.133292	
0.75000	-0.150853	-0.302897	-0.061216
-4.63E-06	-0.117221	-3.190733	
1.00000	-0.150853	-0.294715	-0.061216
-4.63E-06	-0.226219	-3.276219	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.158462	0.635186	0.137648
0.000555	0.332273	7.738687	
0.25000	0.158462	0.904655	0.137648
0.000555	0.162374	8.890968	
0.50000	0.158462	1.545983	0.137648
0.000555	0.034816	9.701958	
0.75000	0.158462	2.244590	0.137648
0.000555	0.141108	9.628559	
1.00000	0.158462	2.857882	0.137648
0.000555	0.258426	9.249299	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.236836	-3.130923	-0.095244
-9.46E-05	-0.216684	-6.814968	
0.25000	-0.236206	-2.517615	-0.095244
-9.46E-05	-0.100005	-5.969420	
0.50000	-0.236206	-1.818980	-0.095244
-9.46E-05	-0.016279	-6.052278	
0.75000	-0.236206	-1.177420	-0.095244
-9.46E-05	-0.183695	-6.114471	
1.00000	-0.236206	-0.907419	-0.095244
-9.46E-05	-0.354892	-7.161509	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.169717	0.726455	0.166542
0.000700	0.421947	11.985157	
0.25000	0.169717	0.733804	0.166542
0.000700	0.215742	12.315388	
0.50000	0.169717	0.751295	0.166542
0.000700	0.050440	12.765549	
0.75000	0.169717	0.770348	0.166542
0.000700	0.148970	13.444933	
1.00000	0.169717	0.787074	0.166542
0.000700	0.276872	14.230450	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.312694	-1.226754	-0.104313
-0.000295	-0.244803	-7.382929	
0.25000	-0.312694	-1.210027	-0.104313
-0.000295	-0.117059	-7.483746	
0.50000	-0.312694	-1.190974	-0.104313
-0.000295	-0.021183	-7.609113	
0.75000	-0.312694	-1.173477	-0.104313
-0.000295	-0.205081	-7.735265	
1.00000	-0.312694	-1.166113	-0.104313
-0.000295	-0.411507	-7.886946	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.243599	5.919251	0.254078
0.000709	0.651188	18.741112	
0.25000	0.243599	11.063666	0.254078
0.000709	0.343188	34.973783	
0.50000	0.243599	23.307197	0.254078
0.000709	0.076852	44.510461	
0.75000	0.243599	36.644233	0.254078
0.000709	0.239563	36.307082	
1.00000	0.243599	48.352537	0.254078
0.000709	0.453517	21.362192	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4049
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.388585	-48.920243	-0.179120
-0.000538	-0.446358	-35.914519	
0.25000	-0.388585	-37.211628	-0.179120
-0.000538	-0.226193	-18.178004	
0.50000	-0.388585	-23.874048	-0.179120
-0.000538	-0.034689	-18.167492	
0.75000	-0.388585	-11.626080	-0.179120
-0.000538	-0.311662	-18.296358	
1.00000	-0.388585	-6.471513	-0.179120
-0.000538	-0.624923	-36.214709	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.210451	11.357284	0.253017
0.000834	0.654752	24.402545	
0.25000	0.210451	33.818679	0.253017
0.000834	0.350395	82.654054	
0.50000	0.210451	63.419554	0.253017
0.000834	0.084141	105.900648	
0.75000	0.210451	91.253682	0.253017
0.000834	0.248219	83.521923	
1.00000	0.210451	120.746030	0.253017
0.000834	0.501058	26.342470	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.264071	-121.241866	-0.203322
-0.001143	-0.510088	-82.424636	
0.25000	-0.264071	-91.724219	-0.203322
-0.001143	-0.257288	-31.180992	
0.50000	-0.264071	-63.894004	-0.203322
-0.001143	-0.049080	-30.285054	
0.75000	-0.264071	-34.291175	-0.203322
-0.001143	-0.323774	-30.549987	
1.00000	-0.264071	-11.782293	-0.203322
-0.001143	-0.638010	-81.293634	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.306501	13.218776	0.331982
0.000709	0.863261	22.912445	
0.25000	0.306501	26.218631	0.331982
0.000709	0.466991	62.859175	
0.50000	0.306501	57.157839	0.331982
0.000709	0.092366	86.258716	
0.75000	0.306501	90.860319	0.331982
0.000709	0.347253	63.895634	
1.00000	0.306501	120.447015	0.331982
0.000709	0.674100	25.613716	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.388585	-120.978778	-0.277812
-0.000949	-0.724419	-75.499381	
0.25000	-0.388585	-91.391292	-0.277812
-0.000949	-0.381358	-30.488438	
0.50000	-0.388585	-57.687439	-0.277812
-0.000949	-0.044262	-30.274276	
0.75000	-0.388585	-26.737020	-0.277812
-0.000949	-0.405124	-30.348907	
1.00000	-0.388585	-13.711511	-0.277812
-0.000949	-0.811970	-75.362989	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.306501	13.218776	0.331982
0.000834	0.863261	24.402545	
0.25000	0.306501	33.818679	0.331982
0.000834	0.466991	82.654054	
0.50000	0.306501	63.419554	0.331982
0.000834	0.092366	105.900648	
0.75000	0.306501	91.253682	0.331982
0.000834	0.347253	83.521923	
1.00000	0.306501	120.746030	0.331982
0.000834	0.674100	26.342470	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4050
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.388585	-121.241866	-0.277812
-0.001143	-0.724419	-82.424636	
0.25000	-0.388585	-91.724219	-0.277812
-0.001143	-0.381358	-31.180992	
0.50000	-0.388585	-63.894004	-0.277812
-0.001143	-0.049080	-30.285054	
0.75000	-0.388585	-34.291175	-0.277812
-0.001143	-0.405124	-30.549987	
1.00000	-0.388585	-13.711511	-0.277812
-0.001143	-0.811970	-81.293634	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.306501	13.218776	0.331982
0.000834	0.863261	24.402545	
0.25000	0.306501	33.818679	0.331982
0.000834	0.466991	82.654054	
0.50000	0.306501	63.419554	0.331982
0.000834	0.092366	105.900648	
0.75000	0.306501	91.253682	0.331982
0.000834	0.347253	83.521923	
1.00000	0.306501	120.746030	0.331982
0.000834	0.674100	26.342470	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.388585	-121.241866	-0.277812
-0.001143	-0.724419	-82.424636	
0.25000	-0.388585	-91.724219	-0.277812
-0.001143	-0.381358	-31.180992	
0.50000	-0.388585	-63.894004	-0.277812
-0.001143	-0.049080	-30.285054	
0.75000	-0.388585	-34.291175	-0.277812
-0.001143	-0.405124	-30.549987	
1.00000	-0.388585	-13.711511	-0.277812
-0.001143	-0.811970	-81.293634	

ELEM 390 ========== LENGTH = 4.972665

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.124058	0.449248	0.142301
0.000551	0.364699	7.822477	
0.25000	0.124058	0.473359	0.142301
0.000551	0.188115	7.648734	
0.50000	0.124058	0.505120	0.142301
0.000551	0.023659	7.571761	
0.75000	0.124058	0.534983	0.142301
0.000551	0.170823	7.668358	
1.00000	0.124058	0.566629	0.142301
0.000551	0.345469	7.860777	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.063919	-0.580552	-0.140477
-0.000548	-0.353079	-1.736085	
0.25000	-0.063919	-0.548903	-0.140477
-0.000548	-0.178452	-1.549258	
0.50000	-0.063919	-0.519041	-0.140477
-0.000548	-0.004425	-1.536759	
0.75000	-0.063919	-0.487280	-0.140477
-0.000548	-0.166998	-1.692582	
1.00000	-0.063919	-0.463163	-0.140477
-0.000548	-0.343714	-1.902508	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.218238	11.570589	0.213074
0.000734	0.560392	25.778475	
0.25000	0.218238	34.042134	0.213074
0.000734	0.301636	83.806585	
0.50000	0.218238	63.643054	0.213074
0.000734	0.085835	106.573788	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4051
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.218238	91.475914	0.213074
0.000734	0.239467	83.852587	
1.00000	0.218238	120.969478	0.213074
0.000734	0.465251	25.858329	

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.160046 -121.002636 -0.190030
-0.000724 -0.479839 -81.327686
0.25000 -0.160046 -93.505863 -0.190030
-0.000724 -0.253254 -30.184185
0.50000 -0.160046 -63.674098 -0.190030
-0.000724 -0.046357 -29.550066
0.75000 -0.160046 -34.072668 -0.190030
-0.000724 -0.269893 -30.368028
1.00000 -0.160046 -11.595945 -0.190030
-0.000724 -0.532547 -81.524322

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.200309 8.390083 0.209854
0.000937 0.540558 26.273461
0.25000 0.200309 23.688575 0.209854
0.000937 0.283918 65.464337
0.50000 0.200309 43.840704 0.209854
0.000937 0.085766 80.826227
0.75000 0.200309 62.789148 0.209854
0.000937 0.250297 65.514474
1.00000 0.200309 82.868189 0.209854
0.000937 0.476197 26.365812

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.219831 -82.903220 -0.188151
-0.000928 -0.469263 -57.290207
0.25000 -0.219831 -62.821994 -0.188151
-0.000928 -0.242109 -22.326284
0.50000 -0.219831 -43.874295 -0.188151
-0.000928 -0.037097 -21.898276
0.75000 -0.219831 -23.721820 -0.188151
-0.000928 -0.266480 -22.618613
1.00000 -0.219831 -8.419802 -0.188151
-0.000928 -0.525871 -57.609002

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.212818 7.095517 0.219005
0.000901 0.557324 24.788341
0.25000 0.212818 19.790011 0.219005
0.000901 0.288554 57.223222
0.50000 0.212818 36.511989 0.219005
0.000901 0.082078 69.926899
0.75000 0.212818 52.235166 0.219005
0.000901 0.266741 57.262861
1.00000 0.212818 68.896498 0.219005
0.000901 0.502670 24.860696

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.228857 -68.923789 -0.195355
-0.000902 -0.479770 -48.551537
0.25000 -0.228857 -52.260644 -0.195355
-0.000902 -0.242977 -19.466535
0.50000 -0.228857 -36.538086 -0.195355
-0.000902 -0.033878 -19.122285
0.75000 -0.228857 -19.815819 -0.195355
-0.000902 -0.279728 -19.797665
1.00000 -0.228857 -7.118399 -0.195355
-0.000902 -0.550760 -48.909897

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.089384 9.489829 0.049456
0.000210 0.145122 16.950238
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4052

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 0.089384 28.296487 0.049456
0.000210 0.088683 65.634344
0.50000 0.089384 53.097799 0.049456
0.000210 0.057962 84.748053
0.75000 0.089384 76.363384 0.049456
0.000210 0.050551 65.661918
1.00000 0.089384 101.046839 0.049456
0.000210 0.077576 16.994186

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.106782 -101.065877 -0.031853
-0.000210 -0.083443 -67.093169
0.25000 -0.106782 -76.379736 -0.031853
-0.000210 -0.051922 -24.371147
0.50000 -0.106782 -53.087057 -0.031853
-0.000210 -0.036465 -23.853478
0.75000 -0.106782 -28.313328 -0.031853
-0.000210 -0.074678 -24.440893
1.00000 -0.106782 -9.502337 -0.031853
-0.000210 -0.130195 -67.156882

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.106680 9.099547 0.088290
0.000459 0.226624 21.404709
0.25000 0.106680 26.604205 0.088290
0.000459 0.121292 66.492641
0.50000 0.106680 49.662433 0.088290
0.000459 0.072774 84.175814
0.75000 0.106680 71.343395 0.088290
0.000459 0.106395 66.524687
1.00000 0.106680 94.317995 0.088290
0.000459 0.175520 21.459112

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.188625 -94.339354 -0.063182
-0.000460 -0.151966 -63.904869
0.25000 -0.188625 -71.362254 -0.063182
-0.000460 -0.081167 -24.033792
0.50000 -0.188625 -49.682145 -0.063182
-0.000460 -0.036363 -23.562803
0.75000 -0.188625 -26.623521 -0.063182
-0.000460 -0.129467 -24.226315
1.00000 -0.188625 -9.114828 -0.063182
-0.000460 -0.237749 -64.101806

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.170992 7.103874 0.175672
0.000875 0.449943 24.348147
0.25000 0.170992 19.494568 0.175672
0.000875 0.234922 55.888093
0.50000 0.170992 35.816363 0.175672
0.000875 0.078937 68.243431
0.75000 0.170992 51.163259 0.175672
0.000875 0.210200 55.933691
1.00000 0.170992 67.425858 0.175672
0.000875 0.392920 24.432593

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.239835 -67.456966 -0.152539
-0.000874 -0.377657 -47.099300
0.25000 -0.239835 -51.192597 -0.152539
-0.000874 -0.193583 -18.730875
0.50000 -0.239835 -35.846305 -0.152539
-0.000874 -0.032105 -18.391180
0.75000 -0.239835 -19.524229 -0.152539
-0.000874 -0.225038 -19.027999
1.00000 -0.239835 -7.130680 -0.152539
-0.000874 -0.442236 -47.421093
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4053

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.184077 6.013862 0.193100
0.000803 0.488051 22.855567
0.25000 0.184077 16.393690 0.193100
0.000803 0.250826 49.264648
0.50000 0.184077 30.066647 0.193100
0.000803 0.075890 59.632757
0.75000 0.184077 42.922920 0.193100
0.000803 0.239582 49.318530
1.00000 0.184077 56.546288 0.193100
0.000803 0.446250 22.917326

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.242810 -56.569529 -0.170858
-0.000802 -0.414086 -40.436152
0.25000 -0.242810 -42.944678 -0.170858
-0.000802 -0.207070 -16.602170
0.50000 -0.242810 -30.088911 -0.170858
-0.000802 -0.029863 -16.329017
0.75000 -0.242810 -16.415718 -0.170858
-0.000802 -0.248712 -16.936152
1.00000 -0.242810 -6.033498 -0.170858
-0.000802 -0.487786 -40.795041

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.059106 0.116819 0.073252
7.55E-06 0.177433 3.764480
0.25000 0.059106 0.140931 0.073252
7.55E-06 0.086367 3.802939
0.50000 0.059106 0.172691 0.073252
7.55E-06 0.015032 3.817586
0.75000 0.059106 0.202555 0.073252
7.55E-06 0.102962 3.796289
1.00000 0.059106 0.234200 0.073252
7.55E-06 0.191236 3.751223

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.093451 -0.229841 -0.071008
-7.76E-06 -0.162155 -1.609001
0.25000 -0.093451 -0.198192 -0.071008
-7.76E-06 -0.074691 -1.446451
0.50000 -0.093451 -0.168330 -0.071008
-7.76E-06 -0.004748 -1.463117
0.75000 -0.093451 -0.136569 -0.071008
-7.76E-06 -0.095782 -1.577859
1.00000 -0.093451 -0.172452 -0.071008
-7.76E-06 -0.186860 -1.746613

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.116480 0.672578 0.121433
0.000188 0.294732 8.169649
0.25000 0.116480 1.395911 0.121433
0.000188 0.143961 9.853548
0.50000 0.116480 2.348730 0.121433
0.000188 0.030475 10.508935
0.75000 0.116480 3.244637 0.121433
0.000188 0.163721 9.847399
1.00000 0.116480 4.194001 0.121433
0.000188 0.299449 8.159377

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.158782 -4.189631 -0.110345
-0.000189 -0.254078 -5.241908
0.25000 -0.158782 -3.240164 -0.110345
-0.000189 -0.118286 -3.408948
0.50000 -0.158782 -2.344262 -0.110345
-0.000189 -0.009514 -3.417616
0.75000 -0.158782 -1.391456 -0.110345
-0.000189 -0.159286 -3.642899
1.00000 -0.158782 -0.667956 -0.110345
-0.000189 -0.310187 -5.488511
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4054

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.118686 1.254755 0.126092
0.000417 0.305394 13.806362
0.25000 0.118686 2.404855 0.126092
0.000417 0.148915 16.399185
0.50000 0.118686 3.919837 0.126092
0.000417 0.047292 17.390027
0.75000 0.118686 5.344330 0.126092
0.000417 0.172022 16.410055
1.00000 0.118686 6.853818 0.126092
0.000417 0.315428 13.829059

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.223751 -6.860422 -0.113432
-0.000418 -0.261057 -7.735959
0.25000 -0.223751 -5.350769 -0.113432
-0.000418 -0.121814 -4.859155
0.50000 -0.223751 -3.926332 -0.113432
-0.000418 -0.013154 -4.856487
0.75000 -0.223751 -4.411324 -0.113432
-0.000418 -0.166852 -5.178764
1.00000 -0.223751 -1.260959 -0.113432
-0.000418 -0.323463 -8.077366

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.170655 6.839451 0.179420
0.000595 0.451892 22.868547
0.25000 0.170655 19.099945 0.179420
0.000595 0.232070 54.241226
0.50000 0.170655 35.250232 0.179420
0.000595 0.077424 66.530920
0.75000 0.170655 50.435865 0.179420
0.000595 0.226175 54.270259
1.00000 0.170655 66.527578 0.179420
0.000595 0.414401 22.920957

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.261685 -66.547381 -0.156717
-0.000595 -0.375154 -46.962109
0.25000 -0.261685 -50.453917 -0.156717
-0.000595 -0.186667 -18.873045
0.50000 -0.261685 -35.268882 -0.156717
-0.000595 -0.033212 -18.554090
0.75000 -0.261685 -19.118316 -0.156717
-0.000595 -0.236540 -19.197622
1.00000 -0.261685 -6.854996 -0.156717
-0.000595 -0.458459 -47.305755

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.192369 0.508931 0.175535
0.000450 0.457013 7.916728
0.25000 0.192369 0.517100 0.175535
0.000450 0.239403 7.926484
0.50000 0.192369 0.536536 0.175535
0.000450 0.027180 7.953597
0.75000 0.192369 0.557706 0.175535
0.000450 0.218292 8.035232
1.00000 0.192369 0.576292 0.175535
0.000450 0.443517 8.133441

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.117603 -0.584424 -0.181361
-0.000447 -0.459981 -3.462345
0.25000 -0.117603 -0.565839 -0.181361
-0.000447 -0.234916 -3.488445
0.50000 -0.117603 -0.544670 -0.181361
-0.000447 -0.008615 -3.542332
0.75000 -0.117603 -0.525232 -0.181361
-0.000447 -0.200123 -3.596271
1.00000 -0.117603 -0.517059 -0.181361
-0.000447 -0.418024 -3.678269
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4055

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.303055 13.448307 0.263090
0.000592 0.689710 24.169657
0.25000 0.303055 26.453718 0.263090
0.000592 0.380301 64.438116
0.50000 0.303055 57.394994 0.263090
0.000592 0.093350 87.389881
0.75000 0.303055 91.098869 0.263090
0.000592 0.323986 64.629490
1.00000 0.303055 120.687242 0.263090
0.000592 0.615078 24.547546

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.268187 -120.708117 -0.251921
-0.000558 -0.661869 -75.333775
0.25000 -0.268187 -91.121481 -0.251921
-0.000558 -0.349816 -30.447132
0.50000 -0.268187 -57.420493 -0.251921
-0.000558 -0.042949 -30.297460
0.75000 -0.268187 -26.474973 -0.251921
-0.000558 -0.321747 -30.588133
1.00000 -0.268187 -13.464140 -0.251921
-0.000558 -0.644174 -75.644747

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.293237 10.099099 0.263785
0.000756 0.682779 25.538117
0.25000 0.293237 19.333593 0.263785
0.000756 0.368972 54.045192
0.50000 0.293237 41.303455 0.263785
0.000756 0.096886 70.348051
0.75000 0.293237 65.234899 0.263785
0.000756 0.337438 54.292018
1.00000 0.293237 86.244131 0.263785
0.000756 0.633843 26.028260

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.308083 -86.270182 -0.254214
-0.000733 -0.649040 -57.423175
0.25000 -0.308083 -65.262184 -0.254214
-0.000733 -0.335788 -25.600445
0.50000 -0.308083 -41.332789 -0.254214
-0.000733 -0.040830 -25.542997
0.75000 -0.308083 -19.359914 -0.254214
-0.000733 -0.324066 -25.798477
1.00000 -0.308083 -10.121569 -0.254214
-0.000733 -0.648228 -57.839896

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.302996 8.553907 0.279443
0.000739 0.711227 24.573235
0.25000 0.302996 16.218685 0.279443
0.000739 0.385507 48.239671
0.50000 0.302996 34.454020 0.279443
0.000739 0.093954 61.761129
0.75000 0.302996 54.317500 0.279443
0.000739 0.365837 48.478464
1.00000 0.302996 71.755497 0.279443
0.000739 0.685088 25.068117

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.331373 -71.778515 -0.269966
-0.000721 -0.673973 -49.573959
0.25000 -0.331373 -54.341542 -0.269966
-0.000721 -0.340868 -23.346832
0.50000 -0.331373 -34.479763 -0.269966
-0.000721 -0.039641 -23.320617
0.75000 -0.331373 -16.241928 -0.269966
-0.000721 -0.350024 -23.553911
1.00000 -0.331373 -8.573954 -0.269966
-0.000721 0.694179 -50.170077
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4056

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.117328 9.341882 0.065336
0.000177 0.176862 14.161858
0.25000 0.117328 18.458740 0.065336
0.000177 0.107299 42.312201
0.50000 0.117328 40.148731 0.065336
0.000177 0.056074 58.318326
0.75000 0.117328 63.775316 0.065336
0.000177 0.079939 42.405154
1.00000 0.117328 84.516915 0.065336
0.000177 0.126465 14.344067

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.172457 -84.530968 -0.050854
-0.000177 -0.144447 -51.622953
0.25000 -0.172457 -63.790587 -0.050854
-0.000177 -0.081559 -20.132652
0.50000 -0.172457 -40.166025 -0.050854
-0.000177 -0.027167 -20.004233
0.75000 -0.172457 -18.473060 -0.050854
-0.000177 -0.089134 -20.183601
1.00000 -0.172457 -9.352401 -0.050854
-0.000177 -0.165601 -51.744646

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.150979 9.216521 0.111446
0.000380 0.280785 19.214018
0.25000 0.150979 17.916749 0.111446
0.000380 0.154312 46.081867
0.50000 0.150979 38.615530 0.111446
0.000380 0.075709 61.466609
0.75000 0.150979 61.162406 0.111446
0.000380 0.155374 46.245451
1.00000 0.150979 80.956136 0.111446
0.000380 0.256800 19.538171

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.241000 -80.975084 -0.096910
-0.000380 -0.242950 -52.297617
0.25000 -0.241000 -61.182517 -0.096910
-0.000380 -0.124323 -22.280308
0.50000 -0.241000 -38.637572 -0.096910
-0.000380 -0.034372 -22.191510
0.75000 -0.241000 -17.935052 -0.096910
-0.000380 -0.156118 -22.396572
1.00000 -0.241000 -9.232097 -0.096910
-0.000380 -0.290058 -52.549000

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.246812 6.767989 0.220101
0.000717 0.564482 22.367316
0.25000 0.246812 12.421912 0.220101
0.000717 0.299229 39.575202
0.50000 0.246812 25.837204 0.220101
0.000717 0.082855 49.413839
0.75000 0.246812 40.525498 0.220101
0.000717 0.283307 39.812039
1.00000 0.246812 53.388635 0.220101
0.000717 0.530221 22.837517

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.319377 -53.414464 -0.209590
-0.000716 -0.523720 -38.218803
0.25000 -0.319377 -40.552083 -0.209590
-0.000716 -0.265054 -18.770874
0.50000 -0.319377 -25.901044 -0.209590
-0.000716 -0.032999 -18.772679
0.75000 -0.319377 -12.447907 -0.209590
-0.000716 -0.270519 -18.965001
1.00000 -0.319377 -6.791627 -0.209590
-0.000716 -0.541341 -38.618611
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4057

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.250228 5.793731 0.250890
0.000670 0.631623 21.795743
0.25000 0.250228 10.542095 0.250890
0.000670 0.326750 36.278734
0.50000 0.250228 21.838965 0.250890
0.000670 0.082285 44.570658
0.75000 0.250228 34.114478 0.250890
0.000670 0.329890 36.518694
1.00000 0.250228 44.947394 0.250890
0.000670 0.616836 22.273099

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.344649 -44.969813 -0.239724
-0.000670 -0.585969 -34.167081
0.25000 -0.344649 -34.167531 -0.239724
-0.000670 -0.289574 -17.853889
0.50000 -0.344649 -21.866037 -0.239724
-0.000670 -0.033275 -17.875479
0.75000 -0.344649 -10.564652 -0.239724
-0.000670 -0.315961 -18.057087
1.00000 -0.344649 -5.814309 -0.239724
-0.000670 -0.625638 -34.583176

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.064849 0.196387 0.109201
6.39E-06 0.261526 4.642239
0.25000 0.064849 0.204856 0.109201
6.39E-06 0.125774 4.696637
0.50000 0.064849 0.223992 0.109201
6.39E-06 0.019688 4.742480
0.75000 0.064849 0.245162 0.109201
6.39E-06 0.149389 4.761175
1.00000 0.064849 0.263748 0.109201
6.39E-06 0.279893 4.771739

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.149289 -0.265020 -0.104928
-6.62E-06 -0.241854 -4.267657
0.25000 -0.149289 -0.246436 -0.104928
-6.62E-06 -0.111409 -3.309787
0.50000 -0.149289 -0.225267 -0.104928
-6.62E-06 -0.008562 -3.340813
0.75000 -0.149289 -0.205829 -0.104928
-6.62E-06 -0.145516 -3.372120
1.00000 -0.149289 -0.197656 -0.104928
-6.62E-06 -0.281306 -3.432308

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.142914 0.725764 0.172019
0.000160 0.411210 9.302129
0.25000 0.142914 0.995349 0.172019
0.000160 0.197423 10.144701
0.50000 0.142914 1.636719 0.172019
0.000160 0.037991 10.639660
0.75000 0.142914 2.335355 0.172019
0.000160 0.240676 10.266576
1.00000 0.142914 2.948682 0.172019
0.000160 0.446182 9.545126

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.238544 -2.952936 -0.166089
-0.000161 -0.381527 -7.206322
0.25000 -0.238544 -2.339645 -0.166089
-0.000161 -0.175497 -6.332186
0.50000 -0.238544 -1.641069 -0.166089
-0.000161 -0.016291 -6.385312
0.75000 -0.238544 -0.999610 -0.166089
-0.000161 -0.230699 -6.447529
1.00000 -0.238544 -0.729914 -0.166089
-0.000161 -0.444333 -7.437896
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.158115	0.887661	0.178343
0.000358	0.431739	14.252652	
0.25000	0.158115	0.895014	0.178343
0.000358	0.209943	14.126699	
0.50000	0.158115	0.912506	0.178343
0.000358	0.054966	14.102286	
0.75000	0.158115	0.931559	0.178343
0.000358	0.250428	14.316039	
1.00000	0.158115	0.948286	0.178343
0.000358	0.457767	14.629888	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.307677	-0.962333	-0.170067
-0.000358	-0.390207	-7.923740	
0.25000	-0.307677	-0.945607	-0.170067
-0.000358	-0.180153	-7.983668	
0.50000	-0.307677	-0.926555	-0.170067
-0.000358	-0.020874	-8.068503	
0.75000	-0.307677	-0.909061	-0.170067
-0.000358	-0.236273	-8.153251	
1.00000	-0.307677	-0.901705	-0.170067
-0.000358	-0.456509	-8.263426	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.236109	6.139602	0.239122
0.000504	0.597610	21.348124	
0.25000	0.236109	11.286215	0.239122
0.000504	0.306919	37.067135	
0.50000	0.236109	23.530565	0.239122
0.000504	0.081759	46.039440	
0.75000	0.236109	36.868153	0.239122
0.000504	0.316539	37.297676	
1.00000	0.236109	48.577120	0.239122
0.000504	0.584345	21.806044	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.375991	-48.598212	-0.224968
-0.000504	-0.545477	-36.239324	
0.25000	-0.375991	-36.889933	-0.224968
-0.000504	-0.266898	-18.544354	
0.50000	-0.375991	-23.553486	-0.224968
-0.000504	-0.034156	-18.553284	
0.75000	-0.375991	-11.307458	-0.224968
-0.000504	-0.307267	-18.735598	
1.00000	-0.375991	-6.158699	-0.224968
-0.000504	-0.601594	-36.633390	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.218238	11.570589	0.219005
0.000937	0.567392	26.273461	
0.25000	0.218238	34.042134	0.219005
0.000937	0.301636	83.806585	
0.50000	0.218238	63.643054	0.219005
0.000937	0.085835	106.573788	
0.75000	0.218238	91.475914	0.219005
0.000937	0.266741	83.852587	
1.00000	0.218238	120.969478	0.219005
0.000937	0.502670	26.365812	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261685	-121.002636	-0.195355
-0.000928	-0.479839	-81.327686	
0.25000	-0.261685	-91.505863	-0.195355
-0.000928	-0.253254	-30.184185	
0.50000	-0.261685	-63.674098	-0.195355
-0.000928	-0.046357	-29.550066	
0.75000	-0.261685	-34.072668	-0.195355
-0.000928	-0.277928	-30.368028	
1.00000	-0.261685	-11.595945	-0.195355
-0.000928	-0.550760	-81.524322	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.303055	13.448307	0.279443
0.000756	0.711227	25.538117	
0.25000	0.303055	26.453718	0.279443
0.000756	0.380301	64.438116	
0.50000	0.303055	57.394994	0.279443
0.000756	0.096886	87.389881	
0.75000	0.303055	91.098869	0.279443
0.000756	0.365837	64.629490	
1.00000	0.303055	120.687242	0.279443
0.000756	0.685088	26.028260	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.375991	-120.708117	-0.269966
-0.000733	-0.673973	-75.333775	
0.25000	-0.375991	-91.121481	-0.269966
-0.000733	-0.349816	-30.447132	
0.50000	-0.375991	-57.420493	-0.269966
-0.000733	-0.042949	-30.297460	
0.75000	-0.375991	-26.474973	-0.269966
-0.000733	-0.350024	-30.588133	
1.00000	-0.375991	-13.464140	-0.269966
-0.000733	-0.694179	-75.644747	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.303055	13.448307	0.279443
0.000937	0.711227	26.273461	
0.25000	0.303055	34.042134	0.279443
0.000937	0.380301	83.806585	
0.50000	0.303055	63.643054	0.279443
0.000937	0.096886	106.573788	
0.75000	0.303055	91.475914	0.279443
0.000937	0.365837	83.852587	
1.00000	0.303055	120.969478	0.279443
0.000937	0.685088	26.365812	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.375991	-121.002636	-0.269966
-0.000928	-0.673973	-81.327686	
0.25000	-0.375991	-91.505863	-0.269966
-0.000928	-0.349816	-30.447132	
0.50000	-0.375991	-63.674098	-0.269966
-0.000928	-0.046357	-30.297460	
0.75000	-0.375991	-34.072668	-0.269966
-0.000928	-0.350024	-30.588133	
1.00000	-0.375991	-13.464140	-0.269966
-0.000928	-0.694179	-81.524322	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.303055	13.448307	0.279443
0.000937	0.711227	26.273461	
0.25000	0.303055	34.042134	0.279443
0.000937	0.380301	83.806585	
0.50000	0.303055	63.643054	0.279443
0.000937	0.096886	106.573788	
0.75000	0.303055	91.475914	0.279443
0.000937	0.365837	83.852587	
1.00000	0.303055	120.969478	0.279443
0.000937	0.685088	26.365812	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.375991	-121.002636	-0.269966
-0.000928	-0.673973	-81.327686	
0.25000	-0.375991	-91.505863	-0.269966
-0.000928	-0.349816	-30.447132	
0.50000	-0.375991	-63.674098	-0.269966
-0.000928	-0.046357	-30.297460	
0.75000	-0.375991	-34.072668	-0.269966
-0.000928	-0.350024	-30.588133	
1.00000	-0.375991	-13.464140	-0.269966
-0.000928	-0.694179	-81.524322	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 391 ========== LENGTH = 4.973388

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.130666	0.571497	0.119862
0.000811	0.309908	7.836537	
0.25000	0.130666	0.595645	0.119862
0.000811	0.161163	7.466219	
0.50000	0.130666	0.627409	0.119862
0.000811	0.022653	7.184728	
0.75000	0.130666	0.657271	0.119862
0.000811	0.157315	7.073408	
1.00000	0.130666	0.686948	0.119862
0.000811	0.319681	7.067079	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.060396	-0.457225	-0.130601
-0.000269	-0.329923	-1.865489	
0.25000	-0.060396	-0.425576	-0.130601
-0.000269	-0.167601	-1.980458	
0.50000	-0.060396	-0.395710	-0.130601
-0.000269	-0.006206	-2.149856	
0.75000	-0.060396	-0.369449	-0.130601
-0.000269	-0.138171	-2.320554	
1.00000	-0.060396	-0.339847	-0.130601
-0.000269	-0.287195	-2.545280	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.225357	11.755594	0.172707
0.001032	0.457317	25.825493	
0.25000	0.225357	34.261816	0.172707
0.001032	0.247906	83.541539	
0.50000	0.225357	63.865729	0.172707
0.001032	0.084178	105.957982	
0.75000	0.225357	91.696652	0.172707
0.001032	0.238504	82.747118	
1.00000	0.225357	121.217291	0.172707
0.001032	0.452481	24.485942	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.145934	-120.775189	-0.179965
-0.000379	-0.472966	-81.485461	
0.25000	-0.145934	-91.278243	-0.179965
-0.000379	-0.249284	-30.161473	
0.50000	-0.145934	-63.442917	-0.179965
-0.000379	-0.049291	-30.508870	
0.75000	-0.145934	-33.840740	-0.179965
-0.000379	-0.220754	-31.424067	
1.00000	-0.145934	-11.378861	-0.179965
-0.000379	-0.431952	-82.693353	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.199517	8.659025	0.187017
0.001154	0.483163	26.344211	
0.25000	0.199517	26.981126	0.187017
0.001154	0.254407	65.089431	
0.50000	0.199517	44.135292	0.187017
0.001154	0.083485	79.985816	
0.75000	0.199517	63.082417	0.187017
0.001154	0.284103	64.103397	
1.00000	0.199517	83.179891	0.187017
0.001154	0.538347	24.548468	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.203296	-82.611796	-0.210343
-0.000652	-0.529657	-57.575684	
0.25000	-0.203296	-62.530453	-0.210343
-0.000652	-0.268653	-23.203324	
0.50000	-0.203296	-43.580330	-0.210343
-0.000652	-0.041230	-23.205262	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.203296	-23.427346	-0.210343
-0.000652	-0.237749	-23.995430	
1.00000	-0.203296	-8.135434	-0.210343
-0.000652	-0.467799	-59.066359	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216751	7.378640	0.207895
0.000990	0.528107	24.858387	
0.25000	0.216751	20.092724	0.207895
0.000990	0.272760	56.824172	
0.50000	0.216751	36.816394	0.207895
0.000990	0.079634	69.058357	
0.75000	0.216751	52.538476	0.207895
0.000990	0.328484	55.811321	
1.00000	0.216751	69.215103	0.207895
0.000990	0.622101	22.980102	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.213719	-68.643413	-0.241029
-0.000780	-0.594868	-48.894867	
0.25000	-0.213719	-51.980171	-0.241029
-0.000780	-0.295647	-20.444115	
0.50000	-0.213719	-36.255601	-0.241029
-0.000780	-0.038449	-20.516843	
0.75000	-0.213719	-19.532912	-0.241029
-0.000780	-0.266740	-21.243735	
1.00000	-0.213719	-6.843878	-0.241029
-0.000780	-0.523168	-50.416365	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.091347	9.574603	0.041378
0.000211	0.112653	16.990736	
0.25000	0.091347	28.410282	0.041378
0.000211	0.065336	65.527040	
0.50000	0.091347	53.186090	0.041378
0.000211	0.057196	84.465419	
0.75000	0.091347	76.478063	0.041378
0.000211	0.080761	65.093003	
1.00000	0.091347	101.184178	0.041378
0.000211	0.129478	16.321500	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.124263	-100.948280	-0.046036
-0.000201	-0.125417	-67.158650	
0.25000	-0.124263	-76.261994	-0.046036
-0.000201	-0.068320	-24.588708	
0.50000	-0.124263	-52.966335	-0.046036
-0.000201	-0.037834	-24.275262	
0.75000	-0.124263	-28.191982	-0.046036
-0.000201	-0.069162	-24.930750	
1.00000	-0.124263	-9.393413	-0.046036
-0.000201	-0.117761	-67.728072	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.108561	9.278278	0.093143
0.000354	0.236142	21.469132	
0.25000	0.108561	26.809949	0.093143
0.000354	0.124182	66.262167	
0.50000	0.108561	49.870508	0.093143
0.000354	0.071220	83.629806	
0.75000	0.108561	71.549960	0.093143
0.000354	0.176870	65.036865	
1.00000	0.108561	94.545651	0.093143
0.000354	0.308377	20.213237	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.204049	-94.133191	-0.112482
-0.000516	-0.276034	-64.112571	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.204049	-71.155956	-0.112482
-0.000516	-0.136796	-24.602737	
0.50000	-0.204049	-49.473074	-0.112482
-0.000516	-0.041192	-24.423999	
0.75000	-0.204049	-26.413868	-0.112482
-0.000516	-0.136907	-25.147161	
1.00000	-0.204049	-8.916739	-0.112482
-0.000516	-0.250081	-65.094645	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.172072	7.374015	0.162771
0.000965	0.416019	24.425477	
0.25000	0.172072	19.783830	0.162771
0.000965	0.216884	55.518330	
0.50000	0.172072	36.107275	0.162771
0.000965	0.076701	67.432014	
0.75000	0.172072	51.453102	0.162771
0.000965	0.259550	54.563041	
1.00000	0.172072	67.730631	0.162771
0.000965	0.487155	22.656193	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.240039	-67.170519	-0.187962
-0.000718	-0.465655	-47.403994	
0.25000	-0.240039	-50.906055	-0.187962
-0.000718	-0.232525	-19.614756	
0.50000	-0.240039	-35.557800	-0.187962
-0.000718	-0.036392	-19.666287	
0.75000	-0.240039	-19.235312	-0.187962
-0.000718	-0.210347	-20.356239	
1.00000	-0.240039	-6.849948	-0.187962
-0.000718	-0.410496	-48.811176	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.177680	6.295012	0.190888
0.000799	0.479948	22.929066	
0.25000	0.177680	16.690859	0.190888
0.000799	0.245291	48.890559	
0.50000	0.177680	30.365198	0.190888
0.000799	0.073495	58.788053	
0.75000	0.177680	43.220576	0.190888
0.000799	0.314481	47.920436	
1.00000	0.177680	56.856451	0.190888
0.000799	0.592807	21.099375	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.240619	-56.319587	-0.227952
-0.000827	-0.555968	-41.795306	
0.25000	-0.240619	-42.694656	-0.227952
-0.000827	-0.273004	-17.581358	
0.50000	-0.240619	-29.837245	-0.227952
-0.000827	-0.034641	-17.689948	
0.75000	-0.240619	-16.163707	-0.227952
-0.000827	-0.248165	-18.333562	
1.00000	-0.240619	-5.788343	-0.227952
-0.000827	-0.483636	-42.236226	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.041752	0.200426	0.086471
4.78E-06	0.208620	3.779448	
0.25000	0.041752	0.224574	0.086471
4.78E-06	0.101113	3.683586	
0.50000	0.041752	0.256338	0.086471
4.78E-06	0.014137	3.565894	
0.75000	0.041752	0.286193	0.086471
4.78E-06	0.153885	3.411046	
1.00000	0.041752	0.317874	0.086471
4.78E-06	0.293671	3.235175	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.089854	-0.228115	-0.112436
-0.000349	-0.265570	-1.769571	
0.25000	-0.089854	-0.196466	-0.112436
-0.000349	-0.125818	-1.815510	
0.50000	-0.089854	-0.166599	-0.112436
-0.000349	-0.006462	-1.915624	
0.75000	-0.089854	-0.134837	-0.112436
-0.000349	-0.113931	-2.016980	
1.00000	-0.089854	-0.110737	-0.112436
-0.000349	-0.221464	-2.172608	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113567	0.830570	0.142509
9.80E-05	0.344323	8.202570	
0.25000	0.113567	1.555019	0.142509
9.80E-05	0.167291	9.633082	
0.50000	0.113567	2.507935	0.142509
9.80E-05	0.028921	10.051161	
0.75000	0.113567	3.403780	0.142509
9.80E-05	0.252598	9.113254	
1.00000	0.113567	4.354015	0.142509
9.80E-05	0.477912	7.176655	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.155365	-4.120048	-0.181516
-0.000664	-0.426277	-5.523427	
0.25000	-0.155365	-3.170576	-0.181516
-0.000664	-0.200726	-4.069575	
0.50000	-0.155365	-2.274589	-0.181516
-0.000664	-0.012583	-4.241032	
0.75000	-0.155365	-1.321729	-0.181516
-0.000664	-0.188392	-4.449893	
1.00000	-0.155365	-0.598707	-0.181516
-0.000664	-0.365466	-6.279850	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102149	1.495830	0.151247
0.000325	0.364172	13.870044	
0.25000	0.102149	2.647705	0.151247
0.000325	0.176372	16.069889	
0.50000	0.102149	4.162841	0.151247
0.000325	0.045117	16.687491	
0.75000	0.102149	5.587234	0.151247
0.000325	0.285085	15.293341	
1.00000	0.102149	7.098108	0.151247
0.000325	0.533072	12.341695	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.225406	-6.705189	-0.200469
-0.000828	-0.466787	-8.107383	
0.25000	-0.225406	-5.195526	-0.200469
-0.000828	-0.218155	-5.777476	
0.50000	-0.225406	-3.770909	-0.200469
-0.000828	-0.017348	-6.026557	
0.75000	-0.225406	-2.255862	-0.200469
-0.000828	-0.201709	-6.337615	
1.00000	-0.225406	-1.106257	-0.200469
-0.000828	-0.389567	-9.226033	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.156662	7.107222	0.184295
0.000618	0.460718	22.944067	
0.25000	0.156662	19.386636	0.184295
0.000618	0.234554	53.875287	
0.50000	0.156662	35.538556	0.184295
0.000618	0.075019	65.722934	
0.75000	0.156662	50.723131	0.184295
0.000618	0.314945	52.918768	
1.00000	0.156662	66.829618	0.184295
0.000618	0.587590	21.170643	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.269936	-66.330091	-0.224040
-0.000835	-0.544218	-47.319889	
0.25000	-0.269936	-50.236532	-0.224040
-0.000835	-0.266154	-19.819929	
0.50000	-0.269936	-35.094554	-0.224040
-0.000835	-0.037820	-19.868083	
0.75000	-0.269936	-18.898581	-0.224040
-0.000835	-0.245358	-20.548010	
1.00000	-0.269936	-6.643361	-0.224040
-0.000835	-0.472630	-48.701357	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.195797	0.654456	0.137779
0.000726	0.360980	8.097196	
0.25000	0.195797	0.662638	0.137779
0.000726	0.189197	7.856533	
0.50000	0.195797	0.682078	0.137779
0.000726	0.026429	7.632101	
0.75000	0.195797	0.703252	0.137779
0.000726	0.197391	7.461764	
1.00000	0.195797	0.721836	0.137779
0.000726	0.402025	7.318100	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.121316	-0.464429	-0.164910
-0.000233	-0.418252	-3.633469	
0.25000	-0.121316	-0.445843	-0.164910
-0.000233	-0.213230	-3.676642	
0.50000	-0.121316	-0.424675	-0.164910
-0.000233	-0.010084	-3.747618	
0.75000	-0.121316	-0.405237	-0.164910
-0.000233	-0.153475	-3.819343	
1.00000	-0.121316	-0.397071	-0.164910
-0.000233	-0.325024	-3.918815	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.305797	13.685719	0.202779
0.000878	0.535979	24.501745	
0.25000	0.305797	26.712108	0.202779
0.000878	0.299421	64.322627	
0.50000	0.305797	57.659440	0.202779
0.000878	0.091649	86.877747	
0.75000	0.305797	91.368443	0.202779
0.000878	0.319147	63.677821	
1.00000	0.305797	120.954237	0.202779
0.000878	0.585776	23.226448	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267654	-120.458759	-0.237209
-0.000313	-0.623045	-75.592516	
0.25000	-0.267654	-90.870949	-0.237209
-0.000313	-0.328862	-30.777425	
0.50000	-0.267654	-57.170735	-0.237209
-0.000313	-0.045755	-30.776025	
0.75000	-0.267654	-26.225833	-0.237209
-0.000313	-0.253003	-31.203749	
1.00000	-0.267654	-13.225593	-0.237209
-0.000313	-0.503184	-76.389713	

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.291758 10.417793 0.229356
0.000979 0.588203 25.999857
0.25000 0.291758 19.667184 0.229356
0.000979 0.313624 53.923712
0.50000 0.291758 41.641345 0.229356
0.000979 0.094799 69.680477
0.75000 0.291758 65.576431 0.229356
0.000979 0.377140 53.044532
1.00000 0.291758 86.583632 0.229356
0.000979 0.271321 24.255788
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4065
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.304455 -85.972538 -0.280424
-0.000534 -0.704284 -57.803591
0.25000 -0.304455 -64.963706 -0.280424
-0.000534 -0.356295 -26.028016
0.50000 -0.304455 -41.034861 -0.280424
-0.000534 -0.044447 -26.072817
0.75000 -0.304455 -19.062425 -0.280424
-0.000534 -0.291102 -26.422234
1.00000 -0.304455 -9.831602 -0.280424
-0.000534 -0.574150 -58.552107

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.300497 8.881806 0.265772
0.000840 0.668680 25.065027
0.25000 0.300497 16.558947 0.265772
0.000840 0.347131 48.110720
0.50000 0.300497 34.797851 0.265772
0.000840 0.091672 61.086430
0.75000 0.300497 54.664353 0.265772
0.000840 0.439610 47.212440
1.00000 0.300497 72.100831 0.265772
0.000840 0.830858 23.255587

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.324018 -71.492666 -0.324480
-0.000646 -0.799761 -50.158666
0.25000 -0.324018 -54.055001 -0.324480
-0.000646 -0.397043 -23.790889
0.50000 -0.324018 -34.193678 -0.324480
-0.000646 -0.043536 -23.834598
0.75000 -0.324018 -15.956207 -0.324480
-0.000646 -0.342416 -24.131104
1.00000 -0.324018 -8.294476 -0.324480
-0.000646 -0.671087 -50.805928

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.116580 9.453933 0.053299
0.000180 0.082861 14.342860
0.25000 0.116580 18.585498 0.053299
0.000180 0.082903 42.277376
0.50000 0.116580 40.279733 0.053299
0.000180 0.055207 58.094170
0.75000 0.116580 63.909913 0.053299
0.000180 0.105530 41.958480
1.00000 0.116580 84.649704 0.053299
0.000180 0.174350 13.740319

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.174981 -84.403202 -0.065747
-0.000162 -0.173077 -51.744695
0.25000 -0.174981 -63.661998 -0.065747
-0.000162 -0.092042 -20.290348
0.50000 -0.174981 -40.037979 -0.065747
-0.000162 -0.028767 -20.251342
0.75000 -0.174981 -18.345447 -0.065747
-0.000162 -0.263232 -51.012529
1.00000 -0.174981 -9.232213 -0.065747
-0.000162 -0.148011 -52.149690

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.149007 9.424699 0.124491
0.000310 0.303285 19.557095
0.25000 0.149007 18.138961 0.124491
0.000310 0.159491 46.025476
0.50000 0.149007 38.841793 0.124491
0.000310 0.074300 61.092751
0.75000 0.149007 61.392099 0.124491
0.000310 0.241801 45.437034
1.00000 0.149007 81.184104 0.124491
0.000310 0.426205 18.389113
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4066
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.243158 -80.772267 -0.158965
-0.000425 -0.383850 -52.566413
0.25000 -0.243158 -60.978914 -0.158965
-0.000425 -0.187032 -22.570374
0.50000 -0.243158 -38.434487 -0.158965
-0.000425 -0.036977 -22.554153
0.75000 -0.243158 -17.733281 -0.158965
-0.000425 -0.183510 -22.824275
1.00000 -0.243158 -9.036512 -0.158965
-0.000425 -0.335713 -53.036466

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.241040 7.078655 0.202909
0.000839 0.511630 22.829055
0.25000 0.241040 12.741698 0.202909
0.000839 0.266486 39.488417
0.50000 0.241040 26.195623 0.202909
0.000839 0.080830 48.783756
0.75000 0.241040 40.850146 0.202909
0.000839 0.344581 38.613471
1.00000 0.241040 53.712161 0.202909
0.000839 0.648814 21.123597

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.314835 -53.138994 -0.252154
-0.000596 -0.618284 -38.604396
0.25000 -0.314835 -40.276103 -0.252154
-0.000596 -0.305658 -19.179416
0.50000 -0.314835 -25.625400 -0.252154
-0.000596 -0.036654 -19.237736
0.75000 -0.314835 -12.172532 -0.252154
-0.000596 -0.260595 -19.481582
1.00000 -0.314835 -6.520857 -0.252154
-0.000596 -0.511209 -39.183508

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.238989 6.116522 0.252868
0.000693 0.627491 22.289152
0.25000 0.238989 10.872546 0.252868
0.000693 0.318889 36.194876
0.50000 0.238989 22.171627 0.252868
0.000693 0.080018 43.925102
0.75000 0.238989 34.479012 0.252868
0.000693 0.423257 35.293408
1.00000 0.238989 45.280986 0.252868
0.000693 0.801021 20.509804

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.333653 -44.713752 -0.309711
-0.000692 -0.750798 -34.591999
0.25000 -0.333653 -33.911041 -0.309711
-0.000692 -0.365961 -18.282428
0.50000 -0.333653 -21.606865 -0.309711
-0.000692 -0.037144 -18.334731
0.75000 -0.333653 -10.308671 -0.309711
-0.000692 -0.328787 -18.542810
1.00000 -0.333653 -5.562195 -0.309711
-0.000692 -0.641630 -35.092455

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.056038 0.291292 0.133683
4.60E-06 0.321287 4.808478
0.25000 0.056038 0.299475 0.133683
4.60E-06 0.155134 4.689374
0.50000 0.056038 0.318914 0.133683
4.60E-06 0.016842 4.565596
0.75000 0.056038 0.340088 0.133683
4.60E-06 0.213398 4.415619
1.00000 0.056038 0.358672 0.133683
4.60E-06 0.408744 4.259113
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4067
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.139375 -0.231260 -0.156779
-0.000299 -0.371428 -3.467586
0.25000 -0.139375 -0.212674 -0.156779
-0.000299 -0.176290 -3.447376
0.50000 -0.139375 -0.191506 -0.156779
-0.000299 -0.010074 -3.453919
0.75000 -0.139375 -0.172068 -0.156779
-0.000299 -0.177242 -3.460588
1.00000 -0.139375 -0.163902 -0.156779
-0.000299 -0.343523 -3.495296

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.138022 0.899422 0.213393
9.39E-05 0.511578 9.603239
0.25000 0.138022 1.169442 0.213393
9.39E-05 0.246681 10.110082
0.50000 0.138022 1.810938 0.213393
9.39E-05 0.036464 10.311921
0.75000 0.138022 2.509680 0.213393
9.39E-05 0.352757 9.627732
1.00000 0.138022 3.122953 0.213393
9.39E-05 0.671232 8.602366

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.227712 -2.860217 -0.256085
-0.000557 -0.603209 -7.492588
0.25000 -0.227712 -2.246902 -0.256085
-0.000557 -0.284588 -6.595637
0.50000 -0.227712 -1.548342 -0.256085
-0.000557 -0.018702 -6.621840
0.75000 -0.227712 -0.906897 -0.256085
-0.000557 -0.285260 -6.673444
1.00000 -0.227712 -0.637419 -0.256085
-0.000557 -0.550460 -7.636918

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.145238 1.151059 0.222738
0.000294 0.530494 14.686719
0.25000 0.145238 1.158423 0.222738
0.000294 0.254135 14.087850
0.50000 0.145238 1.175918 0.222738
0.000294 0.052917 13.567810
0.75000 0.145238 1.194975 0.222738
0.000294 0.390563 13.332902
1.00000 0.145238 1.211701 0.222738
0.000294 0.735630 13.189248

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.295006 -0.793211 -0.277290
-0.000702 -0.644531 -8.316048
0.25000 -0.295006 -0.776484 -0.277290
-0.000702 -0.300588 -8.336676
0.50000 -0.295006 -0.757433 -0.277290
-0.000702 -0.024359 -8.383430
0.75000 -0.295006 -0.739939 -0.277290
-0.000702 -0.301339 -8.429715
1.00000 -0.295006 -0.732589 -0.277290
-0.000702 -0.577449 -8.500649

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.223651 6.448951 0.253130
0.000549 0.621986 21.838103
0.25000 0.223651 11.603866 0.253130
0.000549 0.313899 36.999230
0.50000 0.223651 23.850612 0.253130
0.000549 0.079539 45.430919
0.75000 0.223651 37.190230 0.253130
0.000549 0.427010 36.121225
1.00000 0.223651 48.898176 0.253130
0.000549 0.802952 20.115270
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4068
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.365159 -48.362400 -0.308147
-0.000711 -0.742157 -36.660925
0.25000 -0.365159 -36.653656 -0.308147
-0.000711 -0.359774 -18.960456
0.50000 -0.365159 -23.317516 -0.308147
-0.000711 -0.017949 -18.934581
0.75000 -0.365159 -11.071732 -0.308147
-0.000711 -0.335866 -19.204601
1.00000 -0.365159 -5.927165 -0.308147
-0.000711 -0.648977 -37.144627

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.225357 11.755594 0.207895
0.001154 0.528107 26.344211
0.25000 0.225357 34.261816 0.207895
0.001154 0.272760 83.541539
0.50000 0.225357 63.865729 0.207895
0.001154 0.084178 105.957982
0.75000 0.225357 91.696652 0.207895
0.001154 0.328484 82.747118
1.00000 0.225357 121.217291 0.207895
0.001154 0.622101 24.548468

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.269936 -120.775189 -0.241029
-0.000835 -0.599468 -81.485461
0.25000 -0.269936 -91.278243 -0.241029
-0.000835 -0.295647 -30.751473
0.50000 -0.269936 -63.442917 -0.241029
-0.000835 -0.049291 -30.508870
0.75000 -0.269936 -33.840740 -0.241029
-0.000835 -0.266740 -31.424067
1.00000 -0.269936 -11.378861 -0.241029
-0.000835 -0.523168 -82.693353

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.305797 13.685719 0.265772
0.000979 0.668680 25.999857
0.25000 0.305797 26.712108 0.265772
0.000979 0.347131 64.322627
0.50000 0.305797 57.659440 0.265772
0.000979 0.094799 86.877747
0.75000 0.305797 91.368443 0.265772
0.000979 0.439610 63.672821
1.00000 0.305797 120.954237 0.265772
0.000979 0.830858 24.255788

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.365159 -120.458759 -0.324480
-0.000711 -0.799761 -75.592516
0.25000 -0.365159 -90.870949 -0.324480
-0.000711 -0.397043 -30.777425
0.50000 -0.365159 -57.170735 -0.324480
-0.000711 -0.045755 -30.776025
0.75000 -0.365159 -26.225833 -0.324480
-0.000711 -0.342416 -31.203749
1.00000 -0.365159 -13.225593 -0.324480
-0.000711 -0.671087 -76.389713

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.305797 13.685719 0.265772
0.001154 0.668680 26.344211
0.25000 0.305797 34.261816 0.265772
0.001154 0.347131 83.541539
0.50000 0.305797 63.865729 0.265772
0.001154 0.094799 105.957982
0.75000 0.305797 91.696652 0.265772
0.001154 0.439610 82.747118
1.00000 0.305797 121.217291 0.265772
0.001154 0.830858 24.548468
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4069
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.365159 -120.775189 -0.324480
-0.000835 -0.799761 -81.485461
0.25000 -0.365159 -91.278243 -0.324480
-0.000835 -0.397043 -30.777425
0.50000 -0.365159 -63.442917 -0.324480
-0.000835 -0.049291 -30.776025
0.75000 -0.365159 -33.840740 -0.324480
-0.000835 -0.342416 -31.424067
1.00000 -0.365159 -13.225593 -0.324480
-0.000835 -0.671087 -82.693353

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.305797 13.685719 0.265772
0.001154 0.668680 26.344211
0.25000 0.305797 34.261816 0.265772
0.001154 0.347131 83.541539
0.50000 0.305797 63.865729 0.265772
0.001154 0.094799 105.957982
0.75000 0.305797 91.696652 0.265772
0.001154 0.439610 82.747118
1.00000 0.305797 121.217291 0.265772
0.001154 0.830858 24.548468

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.365159 -120.775189 -0.324480
-0.000835 -0.799761 -81.485461
0.25000 -0.365159 -91.278243 -0.324480
-0.000835 -0.397043 -30.777425
0.50000 -0.365159 -63.442917 -0.324480
-0.000835 -0.049291 -30.776025
0.75000 -0.365159 -33.840740 -0.324480
-0.000835 -0.342416 -31.424067
1.00000 -0.365159 -13.225593 -0.324480
-0.000835 -0.671087 -82.693353

ELEM 392 ========== LENGTH = 4.972139

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.115855 0.801621 0.096983
0.001053 0.252182 7.037934
0.25000 0.115855 0.825791 0.096983
0.001053 0.131756 6.288985
0.50000 0.115855 0.857566 0.096983
0.001053 0.017341 5.580468
0.75000 0.115855 0.887430 0.096983
0.001053 0.142693 5.012309
1.00000 0.115855 0.919109 0.096983
0.001053 0.291200 4.583626

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.064997 -0.242187 -0.119481
-5.62E-06 -0.302920 -2.514167
0.25000 -0.064997 -0.210599 -0.119481
-5.62E-06 -0.154404 -2.502922
0.50000 -0.064997 -0.180722 -0.119481
-5.62E-06 -0.007116 -2.545807
0.75000 -0.064997 -0.148955 -0.119481
-5.62E-06 -0.110206 -2.589801
1.00000 -0.064997 -0.124907 -0.119481
-5.62E-06 -0.230523 -2.688189

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.206127 12.150461 0.139308
0.001341 0.369510 24.490937
0.25000 0.206127 34.677688 0.139308
0.001341 0.202063 81.539731
0.50000 0.206127 64.291711 0.139308
0.001341 0.075070 103.270333
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4070
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 0.206127 92.124413 0.139308
0.001341 0.232830 78.937410
1.00000 0.206127 121.649998 0.139308
0.001341 0.444297 20.340737

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.155333 -120.279969 -0.178022
-5.82E-05 -0.470750 -82.625771
0.25000 -0.155333 -90.839683 -0.178022
-5.82E-05 -0.249514 -31.855939
0.50000 -0.155333 -62.994326 -0.178022
-5.82E-05 -0.052288 -31.535505
0.75000 -0.155333 -33.387457 -0.178022
-5.82E-05 -0.180813 -32.248590
1.00000 -0.155333 -10.975030 -0.178022
-5.82E-05 -0.349298 -83.654775

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.178875 9.175711 0.168783
0.001345 0.433458 24.575964
0.25000 0.178875 24.512112 0.168783
0.001345 0.227618 62.467914
0.50000 0.178875 44.673161 0.168783
0.001345 0.071312 76.464934
0.75000 0.178875 63.621497 0.168783
0.001345 0.305743 59.353449
1.00000 0.178875 83.722338 0.168783
0.001345 0.587609 19.128097

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.209076 -81.986675 -0.232502
-0.000387 -0.589631 -59.019357
0.25000 -0.209076 -61.943905 -0.232502
-0.000387 -0.300936 -24.466012
0.50000 -0.209076 -42.986954 -0.232502
-0.000387 -0.044233 -24.258313
0.75000 -0.209076 -22.830775 -0.232502
-0.000387 -0.217194 -24.754228
1.00000 -0.209076 -7.572530 -0.232502
-0.000387 -0.423754 -59.761701

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.193455 7.912387 0.202753
0.001121 0.511166 23.018383
0.25000 0.193455 20.638336 0.202753
0.001121 0.262413 54.123876
0.50000 0.193455 37.367717 0.202753
0.001121 0.066906 65.450015
0.75000 0.193455 53.090805 0.202753
0.001121 0.372013 51.008993
1.00000 0.193455 69.770226 0.202753
0.001121 0.716984 17.456674

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.215130 -68.099637 -0.282296
-0.000686 -0.704288 -50.391841
0.25000 -0.215130 -51.468403 -0.282296
-0.000686 -0.353710 -21.701747
0.50000 -0.215130 -35.738167 -0.282296
-0.000686 -0.041362 -21.511232
0.75000 -0.215130 -19.012827 -0.282296
-0.000686 -0.262562 -21.904567
1.00000 -0.215130 -6.351730 -0.282296
-0.000686 -0.511917 -50.935153

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.089346 9.752051 0.041095
0.000218 0.108398 16.364574
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4071
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 0.089346 28.605309 0.041095
0.000218 0.061945 64.585000
0.50000 0.089346 53.389577 0.041095
0.000218 0.052825 83.216356
0.75000 0.089346 76.683040 0.041095
0.000218 0.103887 63.196682
1.00000 0.089346 101.393295 0.041095
0.000218 0.179207 14.410579

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.130060 -100.668994 -0.067403
-0.000183 -0.181394 -71.701931
0.25000 -0.130060 -76.030128 -0.067403
-0.000183 -0.097647 -25.173028
0.50000 -0.130060 -52.726074 -0.067403
-0.000183 -0.039792 -24.865724
0.75000 -0.130060 -27.947794 -0.067403
-0.000183 -0.069729 -25.423382
1.00000 -0.130060 -9.190612 -0.067403
-0.000183 -0.117429 -68.406596

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.103744 9.619439 0.104365
0.000257 0.259832 20.278979
0.25000 0.103744 27.167472 0.104365
0.000257 0.134410 64.511906
0.50000 0.103744 50.235906 0.104365
0.000257 0.062934 81.313887
0.75000 0.103744 71.916745 0.104365
0.000257 0.232215 62.291365
1.00000 0.103744 94.916289 0.104365
0.000257 0.426204 16.665999

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.204002 -93.706840 -0.162617
-0.000607 -0.406660 -65.083205
0.25000 -0.204002 -70.773742 -0.162617
-0.000607 -0.204914 -25.488887
0.50000 -0.204002 -49.083045 -0.162617
-0.000607 -0.043673 -25.193133
0.75000 -0.204002 -26.020184 -0.162617
-0.000607 -0.152562 -25.702460
1.00000 -0.204002 -8.561577 -0.162617
-0.000607 -0.279153 -65.700189

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.156053	7.869103	0.156575
0.001039	0.396283	22.706691	
0.25000	0.156053	20.290500	0.156575
0.001039	0.205080	52.987477	
0.50000	0.156053	36.619520	0.156575
0.001039	0.064925	64.057315	
0.75000	0.156053	51.966328	0.156575
0.001039	0.294143	50.065790	
1.00000	0.156053	68.246584	0.156575
0.001039	0.563260	17.489443	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.223937	-66.543501	-0.221213
-0.000551	-0.554043	-48.784590	
0.25000	-0.223937	-50.310279	-0.221213
-0.000551	-0.279422	-20.788331	
0.50000	-0.223937	-34.956493	-0.221213
-0.000551	-0.039088	-20.609609	
0.75000	-0.223937	-18.631418	-0.221213
-0.000551	-0.204450	-21.000764	
1.00000	-0.223937	-6.273321	-0.221213
-0.000551	-0.396713	-49.343835	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.152369	6.799475	0.196537
0.000866	0.489856	21.156533	
0.25000	0.152369	17.205024	0.196537
0.000866	0.248418	46.295466	
0.50000	0.152369	30.884133	0.196537
0.000866	0.061033	55.335039	
0.75000	0.152369	43.740233	0.196537
0.000866	0.368405	43.382731	
1.00000	0.152369	57.378392	0.196537
0.000866	0.709217	15.855672	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.219366	-55.805987	-0.278134
-0.000809	-0.688321	-42.229949	
0.25000	-0.219366	-42.207229	-0.278134
-0.000809	-0.342899	-18.753499	
0.50000	-0.219366	-29.345184	-0.278134
-0.000809	-0.037298	-18.580123	
0.75000	-0.219366	-15.669479	-0.278134
-0.000809	-0.257149	-18.884140	
1.00000	-0.219366	-5.316957	-0.278134
-0.000809	-0.499482	-42.603800	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.021403	0.336381	0.103332
4.61E-07	0.249807	3.258029	
0.25000	0.021403	0.360552	0.103332
4.61E-07	0.121369	2.947022	
0.50000	0.021403	0.392327	0.103332
4.61E-07	0.010154	2.612261	
0.75000	0.021403	0.422190	0.103332
4.61E-07	0.191761	2.242807	
1.00000	0.021403	0.453870	0.103332
4.61E-07	0.373636	1.859314	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.073992	-0.229278	-0.146325
-0.000543	-0.354036	-2.197460	
0.25000	-0.073992	-0.197690	-0.146325
-0.000543	-0.172181	-2.103090	
0.50000	-0.073992	-0.167813	-0.146325
-0.000543	-0.007132	-2.062850	
0.75000	-0.073992	-0.136046	-0.146325
-0.000543	-0.135558	-2.092719	
1.00000	-0.073992	-0.111998	-0.146325
-0.000543	-0.263998	-2.038980	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.092371	1.106972	0.169729
2.07E-06	0.410349	7.219119	
0.25000	0.092371	1.832097	0.169729
2.07E-06	0.199533	8.234589	
0.50000	0.092371	2.785338	0.169729
2.07E-06	0.027744	8.230733	
0.75000	0.092371	3.681241	0.169729
2.07E-06	0.320131	6.831268	
1.00000	0.092371	4.631635	0.169729
2.07E-06	0.620410	4.507523	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.137253	-4.047320	-0.241889
-0.000964	-0.583595	-6.318136	
0.25000	-0.137253	-3.099671	-0.241889
-0.000964	-0.283080	-4.627554	
0.50000	-0.137253	-2.203361	-0.241889
-0.000964	-0.013836	-4.560879	
0.75000	-0.137253	-1.250351	-0.241889
-0.000964	-0.223542	-4.527472	
1.00000	-0.137253	-0.528921	-0.241889
-0.000964	-0.434427	-6.125817	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.077731	1.897520	0.184014
0.000206	0.443272	12.409275	
0.25000	0.077731	3.050469	0.184014
0.000206	0.214834	13.968101	
0.50000	0.077731	4.566123	0.184014
0.000206	0.034632	13.919498	
0.75000	0.077731	5.990607	0.184014
0.000206	0.369149	11.795385	
1.00000	0.077731	7.501735	0.184014
0.000206	0.711031	8.187166	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.210464	-6.411746	-0.275855
-0.001107	-0.663129	-9.262091	
0.25000	-0.210464	-4.904984	-0.275855
-0.001107	-0.320654	-6.616067	
0.50000	-0.210464	-3.479852	-0.275855
-0.001107	-0.019143	-6.552056	
0.75000	-0.210464	-1.964565	-0.275855
-0.001107	-0.244492	-6.540942	
1.00000	-0.210464	-0.817491	-0.275855
-0.001107	-0.473051	-9.124313	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.129387	7.584667	0.198136
0.000632	0.490893	21.240311	
0.25000	0.129387	19.875541	0.198136
0.000632	0.247711	51.389029	
0.50000	0.129387	36.032977	0.198136
0.000632	0.062929	62.435096	
0.75000	0.129387	51.218523	0.198136
0.000632	0.380275	48.571101	
1.00000	0.129387	67.327708	0.198136
0.000632	0.727552	16.205044	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251932	-65.874026	-0.283976
-0.000981	-0.701608	-48.374696	
0.25000	-0.251932	-49.811381	-0.283976
-0.000981	-0.348937	-20.955173	
0.50000	-0.251932	-34.618930	-0.283976
-0.000981	-0.040605	-20.730885	
0.75000	-0.251932	-18.465397	-0.283976
-0.000981	-0.264464	-21.070485	
1.00000	-0.251932	-6.237158	-0.283976
-0.000981	-0.508473	-49.068285	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.180627	0.810218	0.105709
0.000994	0.276395	7.285410	
0.25000	0.180627	0.818411	0.105709
0.000994	0.144684	6.553164	
0.50000	0.180627	0.837858	0.105709
0.000994	0.019883	5.840348	
0.75000	0.180627	0.859039	0.105709
0.000994	0.177797	5.168209	
1.00000	0.180627	0.877627	0.105709
0.000994	0.362861	4.538907	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.135774	-0.231189	-0.149031
-5.11E-06	-0.378376	-3.884863	
0.25000	-0.135774	-0.212601	-0.149031
-5.11E-06	-0.193233	-3.760864	
0.50000	-0.135774	-0.191431	-0.149031
-5.11E-06	-0.010289	-3.665322	
0.75000	-0.135774	-0.171995	-0.149031
-5.11E-06	-0.118959	-3.580071	
1.00000	-0.135774	-0.163860	-0.149031
-5.11E-06	-0.250478	-3.546281	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.283423	13.845111	0.157982
0.001232	0.413286	23.207803	
0.25000	0.283423	26.889086	0.157982
0.001232	0.234022	62.277955	
0.50000	0.283423	57.849422	0.157982
0.001232	0.081211	84.006603	
0.75000	0.283423	91.568982	0.157982
0.001232	0.296418	59.911933	
1.00000	0.283423	121.161468	0.157982
0.001232	0.560347	18.907900	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.269789	-119.989758	-0.226272
-4.41E-05	-0.592894	-76.317473	
0.25000	-0.269789	-90.396723	-0.226272
-4.41E-05	-0.313919	-31.281252	
0.50000	-0.269789	-56.694078	-0.226272
-4.41E-05	-0.047438	-31.074989	
0.75000	-0.269789	-25.752737	-0.226272
-4.41E-05	-0.207663	-31.099560	
1.00000	-0.269789	-12.801305	-0.226272
-4.41E-05	-0.403724	-76.352155	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.267455	10.657487	0.213390
0.001240	0.537768	24.275398	
0.25000	0.267455	19.919365	0.213390
0.001240	0.285013	51.196906	
0.50000	0.267455	41.902759	0.213390
0.001240	0.080323	65.862432	
0.75000	0.267455	65.845341	0.213390
0.001240	0.409869	48.092544	
1.00000	0.267455	86.857494	0.213390
0.001240	0.782653	18.403349	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.302378	-85.374423	-0.310216
-0.000312	-0.778509	-58.511859	
0.25000	-0.302378	-64.361881	-0.310216
-0.000312	-0.394605	-26.376488	
0.50000	-0.302378	-40.431309	-0.310216
-0.000312	-0.045607	-26.072809	
0.75000	-0.302378	-18.461402	-0.310216
-0.000312	-0.280087	-25.935997	
1.00000	-0.302378	-9.265235	-0.310216
-0.000312	-0.545161	-57.948612	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.271466	9.157494	0.269206
0.001032	0.668402	23.293663	
0.25000	0.271466	16.847501	0.269206
0.001032	0.344065	45.300503	
0.50000	0.271466	35.091568	0.269206
0.001032	0.076454	57.148837	
0.75000	0.271466	54.964292	0.269206
0.001032	0.499380	42.119094	
1.00000	0.271466	72.404713	0.269206
0.001032	0.958816	17.210140	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.313890	-70.964586	-0.377998
-0.000579	-0.936219	-50.794914	
0.25000	-0.313890	-53.523841	-0.377998
-0.000579	-0.467364	-24.012641	
0.50000	-0.313890	-33.661086	-0.377998
-0.000579	-0.044341	-23.651071	
0.75000	-0.313890	-15.425713	-0.377998
-0.000579	-0.353596	-23.428010	
1.00000	-0.313890	-7.792748	-0.377998
-0.000579	-0.686289	-49.905684	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.115358	9.493909	0.055504
0.000201	0.136060	13.771908	
0.25000	0.115358	18.637801	0.055504
0.000201	0.179392	41.377746	
0.50000	0.115358	40.341152	0.055504
0.000201	0.050151	56.811724	
0.75000	0.115358	63.978733	0.055504
0.000201	0.132245	40.247277	
1.00000	0.115358	84.723215	0.055504
0.000201	0.228538	11.837983	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.166633	-84.164270	-0.086972
-0.000154	-0.162342	-52.180912	
0.25000	-0.166633	-63.419403	-0.086972
-0.000154	-0.116653	-20.575820	
0.50000	-0.166633	-39.793680	-0.086972
-0.000154	-0.029795	-20.446737	
0.75000	-0.166633	-18.103644	-0.086972
-0.000154	-0.092063	-20.472619	
1.00000	-0.166633	-9.024625	-0.086972
-0.000154	-0.160546	-52.198545	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.141062	9.552212	0.153092
0.000243	0.369075	18.454530	
0.25000	0.141062	18.278238	0.153092
0.000243	0.190658	44.276706	
0.50000	0.141062	38.989770	0.153092
0.000243	0.064323	58.524093	
0.75000	0.141062	61.547138	0.153092
0.000243	0.316551	42.195708	
1.00000	0.141062	81.343620	0.153092
0.000243	0.583850	14.609644	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.231055	-80.383087	-0.224287
-0.000501	-0.548531	-53.043216	
0.25000	-0.231055	-60.586239	-0.224287
-0.000501	-0.271334	-22.790036	
0.50000	-0.231055	-38.040186	-0.224287
-0.000501	-0.037845	-22.526621	
0.75000	-0.231055	-17.341361	-0.224287
-0.000501	-0.222309	-22.410853	
1.00000	-0.231055	-8.677244	-0.224287
-0.000501	-0.412398	-52.575025	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.217713	7.321512	0.205962
0.000931	0.510052	21.174837	
0.25000	0.217713	12.992200	0.205962
0.000931	0.262498	36.882741	
0.50000	0.217713	26.451778	0.205962
0.000931	0.066588	45.126979	
0.75000	0.217713	41.110891	0.205962
0.000931	0.396858	33.870423	
1.00000	0.217713	53.975816	0.205962
0.000931	0.760853	15.458867	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.294027	-52.570960	-0.299024
-0.000456	-0.737073	-39.173769	
0.25000	-0.294027	-39.705747	-0.299024
-0.000456	-0.366405	-19.368602	
0.50000	-0.294027	-25.054038	-0.299024
-0.000456	-0.037237	-19.052357	
0.75000	-0.294027	-11.602717	-0.299024
-0.000456	-0.270966	-18.977038	
1.00000	-0.294027	-5.972261	-0.299024
-0.000456	-0.526461	-38.338367	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209935	6.397815	0.273040
0.000777	0.669876	20.573973	
0.25000	0.209935	11.160259	0.273040
0.000777	0.337616	33.485480	
0.50000	0.209935	22.464088	0.273040
0.000777	0.066603	33.445414	
0.75000	0.209935	34.775327	0.273040
0.000777	0.500506	30.400693	
1.00000	0.209935	45.579745	0.273040
0.000777	0.963906	14.657883	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.299919	-44.239393	-0.378189
-0.000712	-0.925738	-35.109135	
0.25000	-0.299919	-33.434775	-0.378189
-0.000712	-0.456157	-18.359725	
0.50000	-0.299919	-21.129711	-0.378189
-0.000712	-0.037597	-17.977830	
0.75000	-0.299919	-9.832817	-0.378189
-0.000712	-0.358841	-17.797223	
1.00000	-0.299919	-5.104161	-0.378189
-0.000712	-0.698036	-33.956791	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.044933	0.403599	0.160724
2.72E-07	0.388380	4.291563	
0.25000	0.044933	0.411793	0.160724
2.72E-07	0.188550	3.881154	
0.50000	0.044933	0.431240	0.160724
2.72E-07	0.013896	3.466644	
0.75000	0.044933	0.452421	0.160724
2.72E-07	0.263360	3.031129	
1.00000	0.044933	0.471009	0.160724
2.72E-07	0.514349	2.587766	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.110527	-0.230417	-0.201312
-0.000514	-0.486242	-3.534525	
0.25000	-0.110527	-0.211829	-0.201312
-0.000514	-0.235980	-3.320984	
0.50000	-0.110527	-0.190659	-0.201312
-0.000514	-0.009844	-3.135605	
0.75000	-0.110527	-0.171223	-0.201312
-0.000514	-0.210290	-3.050294	
1.00000	-0.110527	-0.163088	-0.201312
-0.000514	-0.410304	-2.815014	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.118533	1.098659	0.259668
1.52E-06	0.626081	8.662724	
0.25000	0.118533	1.369043	0.259668
1.52E-06	0.303748	8.604683	
0.50000	0.118533	2.010809	0.259668
1.52E-06	0.027432	8.234117	
0.75000	0.118533	2.709770	0.259668
1.52E-06	0.441745	6.987776	
1.00000	0.118533	3.323182	0.259668
1.52E-06	0.859337	5.419250	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193160	-2.775634	-0.335150
-0.000883	-0.807819	-7.700346	
0.25000	-0.193160	-2.162210	-0.335150
-0.000883	-0.390321	-6.468464	
0.50000	-0.193160	-1.463600	-0.335150
-0.000883	-0.018410	-6.164755	
0.75000	-0.193160	-0.822228	-0.335150
-0.000883	-0.341765	-5.865507	
1.00000	-0.193160	-0.553762	-0.335150
-0.000883	-0.664894	-6.540274	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.126910	1.406037	0.282285
0.000201	0.676148	13.279236	
0.25000	0.126910	1.413411	0.282285
0.000201	0.325254	11.868461	
0.50000	0.126910	1.430914	0.282285
0.000201	0.039838	10.515380	
0.75000	0.126910	1.449776	0.282285
0.000201	0.508427	9.394983	
1.00000	0.126910	1.466706	0.282285
0.000201	0.982470	8.403275	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.258631	-0.514401	-0.380858
-0.000981	-0.910208	-8.568602	
0.25000	-0.258631	-0.497671	-0.380858
-0.000981	-0.436147	-8.156583	
0.50000	-0.258631	-0.478618	-0.380858
-0.000981	-0.024136	-7.769152	
0.75000	-0.258631	-0.461126	-0.380858
-0.000981	-0.375988	-7.383411	
1.00000	-0.258631	-0.453804	-0.380858
-0.000981	-0.727217	-7.087442	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.201171	6.714592	0.285717
0.000588	0.696322	20.193513	
0.25000	0.201171	11.876467	0.285717
0.000588	0.348417	34.410370	
0.50000	0.201171	24.128359	0.285717
0.000588	0.064708	41.819304	
0.75000	0.201171	37.472154	0.285717
0.000588	0.518311	31.461665	
1.00000	0.201171	49.182749	0.285717
0.000588	0.995556	14.553429	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.327590	-47.945245	-0.389018
-0.000889	-0.949093	-37.173430	
0.25000	-0.327590	-36.234433	-0.389018
-0.000889	-0.465923	-19.048512	
0.50000	-0.327590	-22.897331	-0.389018
-0.000889	-0.038448	-18.773621	
0.75000	-0.327590	-10.652956	-0.389018
-0.000889	-0.380399	-18.479118	
1.00000	-0.327590	-5.527704	-0.389018
-0.000889	-0.735500	-36.122936	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.206127	12.150451	0.202753
0.001345	0.511166	24.575964	
0.25000	0.206127	34.677688	0.202753
0.001345	0.262413	81.539731	
0.50000	0.206127	64.291711	0.202753
0.001345	0.075070	103.270333	
0.75000	0.206127	92.124413	0.202753
0.001345	0.380275	78.937410	
1.00000	0.206127	121.649998	0.202753
0.001345	0.727552	20.340737	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251932	-120.279969	-0.283976
-0.001107	-0.704288	-82.625771	
0.25000	-0.251932	-90.839683	-0.283976
-0.001107	-0.353710	-31.855939	
0.50000	-0.251932	-62.994326	-0.283976
-0.001107	-0.052288	-31.535505	
0.75000	-0.251932	-33.387457	-0.283976
-0.001107	-0.264464	-32.248590	
1.00000	-0.251932	-10.975030	-0.283976
-0.001107	-0.511917	-83.654775	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.283423	13.845111	0.285717
0.001240	0.696322	24.275398	
0.25000	0.283423	26.889086	0.285717
0.001240	0.348417	62.277955	
0.50000	0.283423	57.849422	0.285717
0.001240	0.081211	84.006603	
0.75000	0.283423	91.568982	0.285717
0.001240	0.518311	59.911933	
1.00000	0.283423	121.161468	0.285717
0.001240	0.995556	18.907900	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.327590	-119.989758	-0.389018
-0.000981	-0.949093	-76.317473	
0.25000	-0.327590	-90.396723	-0.389018
-0.000981	-0.467364	-31.281252	
0.50000	-0.327590	-56.694078	-0.389018
-0.000981	-0.047438	-31.074989	
0.75000	-0.327590	-25.752737	-0.389018
-0.000981	-0.380399	-31.099560	
1.00000	-0.327590	-12.801305	-0.389018
-0.000981	-0.735500	-76.352155	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.283423	13.845111	0.285717
0.001345	0.696322	24.575964	
0.25000	0.283423	34.677688	0.285717
0.001345	0.348417	81.539731	
0.50000	0.283423	64.291711	0.285717
0.001345	0.081211	103.270333	
0.75000	0.283423	92.124413	0.285717

```
 0.001345     0.518311    78.937410
 1.00000      0.283423   121.649998      0.285717
 0.001345     0.995556    20.340737

COMB       CAR ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.327590 -120.279969    -0.389018
-0.001107   -0.949093   -82.625771
0.25000    -0.327590   -90.839683    -0.389018
-0.001107   -0.467364   -31.855939
0.50000    -0.327590   -62.994326    -0.389018
-0.001107   -0.052288   -31.535505
0.75000    -0.327590   -33.387457    -0.389018
-0.001107   -0.380399   -32.248590
1.00000    -0.327590   -12.801305    -0.389018
-0.001107   -0.735500   -83.654775

COMB  DESIGN ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.283423    13.845111     0.285717
 0.001345    0.696322    24.575964
0.25000     0.283423    34.677688     0.285717
 0.001345    0.348417    81.539731
0.50000     0.283423    64.291711     0.285717
 0.001345    0.081211   103.270333
0.75000     0.283423    92.124413     0.285717
 0.001345    0.518311    78.937410
1.00000     0.283423   121.649998      0.285717
 0.001345    0.995556    20.340737

COMB  DESIGN ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.327590 -120.279969    -0.389018
-0.001107   -0.949093   -82.625771
0.25000    -0.327590   -90.839683    -0.389018
-0.001107   -0.467364   -31.855939
0.50000    -0.327590   -62.994326    -0.389018
-0.001107   -0.052288   -31.535505
0.75000    -0.327590   -33.387457    -0.389018
-0.001107   -0.380399   -32.248590
1.00000    -0.327590   -12.801305    -0.389018
-0.001107   -0.735500   -83.654775
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4079

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       393 ================ LENGTH
=     4.973104

COMB DB-G1-1 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.061325    0.657975     0.076122
 0.001205    0.198439    4.563300
0.25000     0.061325    0.682212     0.076122
 0.001205    0.103843    4.000936
0.50000     0.061325    0.714053     0.076122
 0.001205    0.010838    3.473106
0.75000     0.061325    0.743933     0.076122
 0.001205    0.126877    3.070100
1.00000     0.061325    0.775893     0.076122
 0.001205    0.260030    2.773867

COMB DB-G1-1 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.063635   -0.217911    -0.107163
-5.81E-06   -0.273077   -2.659196
0.25000    -0.063635   -0.186342    -0.107163
-5.81E-06   -0.139830   -2.769289
0.50000    -0.063635   -0.156408    -0.107163
-5.81E-06   -0.007909   -2.933229
0.75000    -0.063635   -0.124634    -0.107163
-5.81E-06   -0.086003   -3.097864
1.00000    -0.063635   -0.100688    -0.107163
-5.81E-06   -0.180385   -3.317766

COMB DB-G1-2 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.142507   11.477160     0.113198
 0.001513    0.300771   20.320490
0.25000     0.142507   34.066583     0.113198
 0.001513    0.165973   77.677953
0.50000     0.142507   63.741529     0.113198
 0.001513    0.063647   99.564516
0.75000     0.142507   91.590047     0.113198
 0.001513    0.216600   72.621228
1.00000     0.142507  121.377278     0.113198
 0.001513    0.415713   17.381207

COMB DB-G1-2 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.111271 -120.293107    -0.168818
-6.09E-05   -0.451624   -83.622936
0.25000    -0.111271   -90.870085    -0.168818
-6.09E-05   -0.241747   -32.872021
0.50000    -0.111271   -62.972404    -0.168818
-6.09E-05   -0.054692   -32.304597
0.75000    -0.111271   -33.358305    -0.168818
-6.09E-05   -0.152170   -32.383837
1.00000    -0.111271   -11.040863    -0.168818
-6.09E-05   -0.289840   -83.956416

COMB DB-G1-3 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.131428    8.543817     0.157825
 0.001314    0.402108   19.132302
0.25000     0.131428   23.922561     0.157825
 0.001314    0.209971   57.442313
0.50000     0.131428   44.125086     0.157825
 0.001314    0.056767   71.742682
0.75000     0.131428   63.084189     0.157825
 0.001314    0.306663   53.028048
1.00000     0.131428   83.363157     0.157825
 0.001314    0.597319   15.221531

COMB DB-G1-3 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.167829   -82.016447    -0.239978
-0.000445   -0.615515   -59.744470
0.25000    -0.167829   -61.985431    -0.239978
-0.000445   -0.317436   -25.336786
0.50000    -0.167829   -42.992857    -0.239978
-0.000445   -0.046745   -25.093779
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4080

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    -0.167829   -22.831756    -0.239978
-0.000445   -0.207612   -25.291468
1.00000    -0.167829    -7.638176    -0.239978
-0.000445   -0.401824   -60.545707

COMB DB-G1-4 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.120762    7.337441     0.205174
 0.001095    0.513300   17.487801
0.25000     0.120762   20.098526     0.205174
 0.001095    0.261618   48.998642
0.50000     0.120762   36.862323     0.205174
 0.001095    0.051805   60.638882
0.75000     0.120762   52.594346     0.205174
 0.001095    0.386963   44.944956
1.00000     0.120762   69.421574     0.205174
 0.001095    0.756832   13.476091

COMB DB-G1-4 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.178490   -68.113057    -0.302631
-0.000804   -0.764330   -50.939806
0.25000    -0.178490   -51.491575    -0.302631
-0.000804   -0.368294   -22.414851
0.50000    -0.178490   -35.731779    -0.302631
-0.000804   -0.043868   -22.239728
0.75000    -0.178490   -19.002355    -0.302631
-0.000804   -0.269491   -22.430528
1.00000    -0.178490    -6.394916    -0.302631
-0.000804   -0.522919   -51.710789

COMB DB-G2-1 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.083495    9.277876     0.045533
 0.000174    0.117281   14.420825
0.25000     0.083495   28.183188     0.045533
 0.000174    0.065607   62.783195
0.50000     0.083495   53.018443     0.045533
 0.000174    0.047410   81.437132
0.75000     0.083495   76.325143     0.045533
 0.000174    0.113399   59.126044
1.00000     0.083495  101.254370     0.045533
 0.000174    0.203343   13.061557

COMB DB-G2-1 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.074535 -100.691610    -0.079710
-0.000209   -0.216321   -68.410182
0.25000    -0.074535   -76.067193    -0.079710
-0.000209   -0.117370   -25.823656
0.50000    -0.074535   -52.719347    -0.079710
-0.000209   -0.041347   -25.236568
0.75000    -0.074535   -27.935016    -0.079710
-0.000209   -0.077518   -25.190684
1.00000    -0.074535   -9.257328     -0.079710
-0.000209   -0.131702   -68.239988

COMB DB-G2-2 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.087400    9.068456     0.122113
7.27E-05    0.300968   16.704799
0.25000     0.087400   26.664938     0.122113
 7.27E-05    0.153780   61.210063
0.50000     0.087400   49.780829     0.122113
 7.27E-05    0.053241   78.153929
0.75000     0.087400   71.473988     0.122113
 7.27E-05    0.260298   57.134945
1.00000     0.087400   94.677346     0.122113
 7.27E-05    0.492341   14.158029

COMB DB-G2-2 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.145275   -93.741219    -0.193705
-0.000704   -0.492912   -65.721641
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4081

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.25000    -0.145275   -70.821570    -0.193705
-0.000704   -0.252374   -26.159422
0.50000    -0.145275   -49.090114    -0.193705
-0.000704   -0.045722   -25.688746
0.75000    -0.145275   -26.921620    -0.193705
-0.000704   -0.177714   -25.722293
1.00000    -0.145275    -8.637003    -0.193705
-0.000704   -0.327360   -65.867779

COMB DB-G2-3 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.113017    7.303428     0.157167
0.000935    0.394608   17.513559
0.25000     0.113017   19.759119     0.157167
 0.000935    0.202600   48.184776
0.50000     0.113017   36.121732     0.157167
 0.000935    0.050973   69.551913
0.75000     0.113017   51.477261     0.157167
 0.000935    0.304341   44.318755
1.00000     0.113017   67.901787     0.157167
 0.000935    0.592514   13.740346

COMB DB-G2-3 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.176037   -66.600894    -0.236909
-0.000639   -0.601275   -49.344458
0.25000    -0.176037   -50.377192    -0.236909
-0.000639   -0.307107   -21.510145
0.50000    -0.176037   -34.994554    -0.236909
-0.000639   -0.041472   -21.346885
0.75000    -0.176037   -18.665492    -0.236909
-0.000639   -0.208214   -21.540951
1.00000    -0.176037    -6.359769    -0.236909
-0.000639   -0.401932   -50.128535

COMB DB-G2-4 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.101228    6.284523     0.209425
0.000779    0.518926   15.905811
0.25000     0.101228   16.718801     0.209425
 0.000779    0.261374   41.420500
0.50000     0.101228   30.425951     0.209425
 0.000779    0.046537   50.768145
0.75000     0.101228   43.289457     0.209425
 0.000779    0.390602   37.837173
1.00000     0.101228   57.048473     0.209425
 0.000779    0.764190   12.048188

COMB DB-G2-4 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.163370   -55.834098    -0.304785
-0.000948   -0.764685   -42.625238
0.25000    -0.163370   -42.243314    -0.304785
-0.000948   -0.386105   -19.319726
0.50000    -0.163370   -29.357099    -0.304785
-0.000948   -0.039650   -19.195362
0.75000    -0.163370   -15.678054    -0.304785
-0.000948   -0.276707   -19.370606
1.00000    -0.163370    -5.369408    -0.304785
-0.000948   -0.535066   -43.331455

COMB DB-G3-1 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.015122    0.275645     0.122605
5.23E-07    0.297184    1.905512
0.25000     0.015122    0.299882     0.122605
5.23E-07    0.144763    1.674477
0.50000     0.015122    0.331722     0.122605
5.23E-07    0.005755    1.423269
0.75000     0.015122    0.361603     0.122605
5.23E-07    0.211845    1.144515
1.00000     0.015122    0.393563     0.122605
5.23E-07    0.418725    0.863679
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4082

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.040523   -0.204541    -0.166413
-1.00E-06   -0.405304   -2.071922
0.25000    -0.040523   -0.172971    -0.166413
-1.00E-06   -0.202062   -2.028461
0.50000    -0.040523   -0.143038    -0.166413
-1.00E-06   -0.007657   -2.040316
0.75000    -0.040523   -0.111263    -0.166413
-1.00E-06   -0.160145   -2.053000
1.00000    -0.040523   -0.079717    -0.166413
-1.00E-06   -0.312573   -2.121870

COMB DB-G3-2 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.039049    0.963837     0.201172
3.41E-06    0.487402    4.582430
0.25000     0.039049    1.690964     0.201172
3.41E-06    0.237492    5.753957
0.50000     0.039049    2.646166     0.201172
3.41E-06    0.013605    5.894421
0.75000     0.039049    3.542578     0.201172
3.41E-06    0.356827    4.603610
1.00000     0.039049    4.501394     0.201172
3.41E-06    0.702873    2.594923

COMB DB-G3-2 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.097351   -4.024499    -0.278707
-0.001146   -0.684211   -6.177835
0.25000    -0.097351   -3.077406    -0.278707
-0.001146   -0.337793   -4.593165
0.50000    -0.097351   -2.179412    -0.278707
-0.001146   -0.014896   -4.625447
0.75000    -0.097351   -1.226169    -0.278707
-0.001146   -0.264027   -4.678779
1.00000    -0.097351   -0.507796    -0.278707
-0.001146   -0.514048   -6.390414

COMB DB-G3-3 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.056653    1.634760     0.222523
5.13E-06    0.536899    8.270223
0.25000     0.056653    2.790892     0.222523
5.13E-06    0.306635   10.121668
0.50000     0.056653    4.309663     0.222523
5.13E-06    0.022973   10.350796
0.75000     0.056653    5.734958     0.222523
5.13E-06    0.414653    8.367834
1.00000     0.056653    7.259476     0.222523
5.13E-06    0.814518    5.171778

COMB DB-G3-3 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.154522   -6.409033    -0.322444
-0.001300   -0.790988   -9.177366
0.25000    -0.154522   -4.903155    -0.322444
-0.001300   -0.390361   -6.715234
0.50000    -0.154522   -3.475344    -0.322444
-0.001300   -0.020712   -6.823140
0.75000    -0.154522   -1.959687    -0.322444
-0.001300   -0.294627   -6.964818
1.00000    -0.154522   -0.817475    -0.322444
-0.001300   -0.571227   -9.742846

COMB DB-G3-4 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.106114    7.058111     0.219395
0.000525    0.541063   16.268711
0.25000     0.106114   19.382920     0.219395
 0.000525    0.271561   46.767927
0.50000     0.106114   35.573596     0.219395
 0.000525    0.048968   58.085573
0.75000     0.106114   50.767771     0.219395
 0.000525    0.294529   42.165695
1.00000     0.106114   67.019710     0.219395
 0.000525    0.798589   12.611235
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4083

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.164549   -65.887995    -0.317571
-0.001077   -0.796167   -49.103313
0.25000    -0.164549   -49.834769    -0.317571
-0.001077   -0.401604   -21.490764
0.50000    -0.164549   -34.613770    -0.317571
-0.001077   -0.042956   -21.259709
0.75000    -0.164549   -18.456292    -0.317571
-0.001077   -0.294516   -21.382353
1.00000    -0.164549    -6.279877    -0.317571
-0.001077   -0.565612   -49.600524

COMB DL-G1-1 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.102006    0.805919     0.082475
0.001230    0.213178    4.522034
0.25000     0.102006    0.813468     0.082475
0.001230    0.112293    3.958184
0.50000     0.102006    0.833858     0.082475
0.001230    0.011591    3.539770
0.75000     0.102006    0.855045     0.082475
0.001230    0.155757    3.224799
1.00000     0.102006    0.873577     0.082475
0.001230    0.320248    3.016153

COMB DL-G1-1 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.155431   -0.246802    -0.132286
-5.49E-06   -0.338138   -3.514879
0.25000    -0.155431   -0.228176    -0.132286
-5.49E-06   -0.174010   -3.640951
0.50000    -0.155431   -0.206970    -0.132286
-5.49E-06   -0.010656   -3.916013
0.75000    -0.155431   -0.187538    -0.132286
-5.49E-06   -0.093956   -4.303030
1.00000    -0.155431   -0.179490    -0.132286
-5.49E-06   -0.196215   -4.830760

COMB DL-G1-2 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.214224   13.396021     0.131264
 0.001496    0.337695   18.895191
0.25000     0.214224   26.847224     0.131264
 0.001496    0.191925   58.032773
0.50000     0.214224   57.875886     0.131264
 0.001496    0.066694   79.697429
0.75000     0.214224   91.604926     0.131264
 0.001496    0.271724   55.596415
1.00000     0.214224  121.107441     0.131264
 0.001496    0.518127   15.318447

COMB DL-G1-2 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.220931 -119.720229    -0.211291
-4.98E-05   -0.558258   -76.317641
0.25000    -0.220931   -90.068613    -0.211291
-4.98E-05   -0.298351   -31.805528
0.50000    -0.220931   -56.308188    -0.211291
-4.98E-05   -0.049640   -31.673502
0.75000    -0.220931   -25.372484    -0.211291
-4.98E-05   -0.180267   -31.884828
1.00000    -0.220931   -12.559417    -0.211291
-4.98E-05   -0.342816   -78.127626

COMB DL-G1-3 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.207467   10.333714     0.212229
 0.001272    0.526311   18.425784
0.25000     0.207467   19.884744     0.212229
 0.001272    0.275914   45.557927
0.50000     0.207467   41.916653     0.212229
 0.001272    0.061382   60.449246
0.75000     0.207467   65.865966     0.212229
 0.001272    0.414708   43.026828
1.00000     0.207467   86.814234     0.212229
 0.001272    0.805737   14.273382
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4084

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.254108   -85.205989    -0.323455
-0.000363   -0.820946   -57.940918
0.25000    -0.254108   -64.151852    -0.323455
-0.000363   -0.420143   -26.425920
0.50000    -0.254108   -40.180253    -0.323455
-0.000363   -0.047637   -26.531788
0.75000    -0.254108   -18.214349    -0.323455
-0.000363   -0.283101   -26.988356
1.00000    -0.254108    -9.116427    -0.323455
-0.000363   -0.546459   -60.275704

COMB DL-G1-4 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.192953    8.862672     0.284879
0.001060    0.700198   17.264526
0.25000     0.192953   16.790179     0.284879
 0.001060    0.357091   39.518283
0.50000     0.192953   35.077014     0.284879
 0.001060    0.056717   51.635584
0.75000     0.192953   54.955325     0.284879
 0.001060    0.523293   37.023059
1.00000     0.192953   72.342722     0.284879
 0.001060    1.021627   13.062595

COMB DL-G1-4 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.265302   -70.809820    -0.408113
-0.000716   -1.022958   -49.926645
0.25000    -0.265302   -53.334551    -0.408113
-0.000716   -0.516546   -23.752771
0.50000    -0.265302   -33.437743    -0.408113
-0.000716   -0.046036   -23.843622
0.75000    -0.265302   -15.205692    -0.408113
-0.000716   -0.376658   -24.270071
1.00000    -0.265302    -7.654272    -0.408113
-0.000716   -0.730599   -51.982472

COMB DL-G2-1 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.125285    9.183056     0.066967
0.000163    0.162800   11.855071
0.25000     0.125285   18.612416     0.066967
 0.000163    0.090945   39.428514
0.50000     0.125285   40.363664     0.066967
 0.000163    0.043576   54.695985
0.75000     0.125285   64.007890     0.066967
 0.000163    0.146523   37.983323
1.00000     0.125285   84.689302     0.066967
 0.000163    0.264126    9.914603

COMB DL-G2-1 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.088740   -83.966313    -0.103659
-0.000173   -0.268971   -52.206640
0.25000    -0.088740   -63.180381    -0.103659
-0.000173   -0.141349   -20.919654
0.50000    -0.088740   -39.514154    -0.103659
-0.000173   -0.031422   -20.699514
0.75000    -0.088740   -17.828070    -0.103659
-0.000173   -0.107006   -20.672074
1.00000    -0.088740    -8.846045    -0.103659
-0.000173   -0.189988   -52.882873

COMB DL-G2-2 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.129854    9.246458     0.187350
5.80E-05    0.451468   14.668779
0.25000     0.129854   18.244907     0.187350
 5.80E-05    0.230256   40.571987
0.50000     0.129854   39.002146     0.187350
 5.80E-05    0.051578   54.821075
0.75000     0.129854   61.565857     0.187350
 5.80E-05    0.359010   38.585466
1.00000     0.129854   81.302150     0.187350
 5.80E-05    0.682485   11.622712
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4085

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.156403   -80.204983    -0.268495
-0.000603   -0.669380   -52.612907
0.25000    -0.156403   -60.368946    -0.268495
-0.000603   -0.336093   -22.780325
0.50000    -0.156403   -37.784240    -0.268495
-0.000603   -0.039540   -22.648611
0.75000    -0.156403   -17.089187    -0.268495
-0.000603   -0.265145   -22.772753
1.00000    -0.156403    -8.517631    -0.268495
-0.000603   -0.497728   -53.764483

COMB DL-G2-3 ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.181374    7.118245     0.220389
0.000911    0.540526   15.503306
0.25000     0.181374   12.965969     0.220389
 0.000911    0.274776   31.462792
0.50000     0.181374   26.455251     0.220389
 0.000911    0.048596   40.047638
0.75000     0.181374   41.118485     0.220389
```

```
 0.000911    0.417397   29.261050
 1.00000     0.181374   53.944296      0.220389
 0.000911    0.815643   11.730536

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.224250  -52.486279  -0.325669
-0.000549   -0.814663   -38.353939
0.25000    -0.224250  -39.595649  -0.325669
-0.000549   -0.409956   -19.274120
0.50000    -0.224250  -24.918771  -0.325669
-0.000549   -0.039189   -19.720403
0.75000    -0.224250  -11.469901  -0.325669
-0.000549   -0.291925   -20.215924
1.00000    -0.224250   -5.899597  -0.325669
-0.000549   -0.566003   -40.881427

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.168712    6.191218    0.302757
0.000759    0.739319    14.733143
0.25000     0.168712    11.102343   0.302757
 0.000759    0.369748    27.924758
0.50000     0.168712    22.431118   0.302757
 0.000759    0.045990    34.935481
0.75000     0.168712    34.745819   0.302757
 0.000759    0.537307    25.717324
1.00000     0.168712    45.517398   0.302757
 0.000759    1.053283    10.868453

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.217688  -44.143062  -0.419492
-0.000863   -1.041731   -34.000430
0.25000    -0.217688   -33.317056  -0.419492
-0.000863   -0.520499   -17.943039
0.50000    -0.217688   -20.990896  -0.419492
-0.000863   -0.039214   -18.295199
0.75000    -0.217688   -9.696060   -0.419492
-0.000863   -0.398148   -18.732204
1.00000    -0.217688   -5.017922   -0.419492
-0.000863   -0.774566   -36.137760

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.041296    0.348334    0.188206
3.10E-07    0.456594    2.647343
0.25000     0.041296    0.356783    0.188206
3.10E-07    0.222622    2.343629
0.50000     0.041296    0.376274    0.188206
3.10E-07    0.008043    2.050827
0.75000     0.041296    0.397460    0.188206
3.10E-07    0.293896    1.806194
1.00000     0.041296    0.415992    0.188206
3.10E-07    0.579846    1.600274
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                4086

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.054567   -0.192168   -0.229974
-0.000643   -0.563765   -2.863648
0.25000    -0.054567   -0.173542   -0.229974
-0.000643   -0.278019   -2.779923
0.50000    -0.054567   -0.152336   -0.229974
-0.000643   -0.010018   -2.742499
0.75000    -0.054567   -0.132904   -0.229974
-0.000643   -0.244030   -2.770003
1.00000    -0.054567   -0.124856   -0.229974
-0.000643   -0.477836   -2.867891

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.069727    1.016114    0.306526
2.05E-06    0.742535    5.518701
0.25000     0.069727    1.294939    0.306526
2.05E-06    0.361618    5.646333
0.50000     0.069727    1.938121    0.306526
2.05E-06    0.016637    5.490929
0.75000     0.069727    2.637278    0.306526
2.05E-06    0.409674    4.596854
1.00000     0.069727    3.488825    0.306526
2.05E-06    0.978045    3.495057

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.132699   -2.726925   -0.387184
-0.001117   -0.947914   -6.618788
0.25000    -0.132699   -2.112288   -0.387184
-0.001117   -0.466224   -5.640219
0.50000    -0.132699   -1.412480   -0.387184
-0.001117   -0.018650   -5.626507
0.75000    -0.132699   -0.771225   -0.387184
-0.001117   -0.399400   -5.740947
1.00000    -0.132699   -0.505627   -0.387184
-0.001117   -0.780495   -6.910058

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.108810    1.341379    0.344093
2.82E-06    0.828102    8.516571
0.25000     0.108810    1.348983    0.344093
2.82E-06    0.401363    7.387198
0.50000     0.108810    1.356524    0.344093
2.82E-06    0.024377    6.442568
0.75000     0.108810    1.385592    0.344093
2.82E-06    0.580286    5.893063
1.00000     0.108810    1.402271    0.344093
2.82E-06    1.141100    5.605044

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.172705   -0.492700   -0.450524
-0.001207   -1.098940   -7.172573
0.25000    -0.172705   -0.475937   -0.450524
-0.001207   -0.581224   -7.164505
0.50000    -0.172705   -0.456851   -0.450524
-0.001207   -0.024844   -7.314715
0.75000    -0.172705   -0.439363   -0.450524
-0.001207   -0.451374   -7.645299
1.00000    -0.172705   -0.432119   -0.450524
-0.001207   -0.879472   -8.206626

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.180067    6.484600    0.326605
0.000488    0.794334    14.644942
0.25000     0.180067    11.807626   0.326605
 0.000488    0.395729    29.117424
0.50000     0.180067    24.086556   0.326605
 0.000488    0.046491    36.833483
0.75000     0.180067    37.434103   0.326605
 0.000488    0.566583    26.933486
1.00000     0.180067    49.109093   0.326605
 0.000488    1.107366    11.876335
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                4087

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.207315   -47.821620  -0.439738
-0.001001   -1.089276   -36.181167
0.25000    -0.207315   -36.087626  -0.439738
-0.001001   -0.641296   -14.594034
0.50000    -0.207315   -22.727659  -0.439738
-0.001001   -0.039993   -18.753310
0.75000    -0.207315   -10.485515  -0.439738
-0.001001   -0.431988   -19.102718
1.00000    -0.207315   -5.415017   -0.439738
-0.001001   -0.838110   -37.733728

COMB     DB ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.142507   11.477160   0.222523
0.001513    0.541063    20.320490
0.25000     0.142507    34.066583   0.222523
 0.001513    0.271561    77.677953
0.50000     0.142507    63.741529   0.222523
 0.001513    0.063647    99.564516
0.75000     0.142507    91.590047   0.222523
 0.001513    0.414653    72.621228
1.00000     0.142507   121.377278   0.222523
 0.001513    0.814518    17.381207

COMB     DB ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.178490  -120.293107  -0.322444
-0.001300   -0.796167   -83.622936
0.25000    -0.178490   -90.870085   -0.322444
-0.001300   -0.401604   -32.872021
0.50000    -0.178490   -62.972404   -0.322444
-0.001300   -0.054692   -32.304597
0.75000    -0.178490   -33.358305   -0.322444
-0.001300   -0.294627   -32.383837
1.00000    -0.178490   -11.040863   -0.322444
-0.001300   -0.571227   -83.956416

COMB     DL ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.214224   13.396021   0.344093
 0.001496    0.828102    18.895191
0.25000     0.214224    26.847224   0.344093
 0.001496    0.401363    58.032773
0.50000     0.214224    57.875886   0.344093
 0.001496    0.066694    79.697429
0.75000     0.214224    91.604926   0.344093
 0.001496    0.580286    55.596415
1.00000     0.214224   121.107441   0.344093
 0.001496    1.141100    15.318447

COMB     DL ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.265302  -119.720229  -0.450524
-0.001207   -1.098940   -76.317641
0.25000    -0.265302   -90.068613   -0.450524
-0.001207   -0.542996   -31.605528
0.50000    -0.265302   -56.308188   -0.450524
-0.001207   -0.049640   -31.673502
0.75000    -0.265302   -25.372484   -0.450524
-0.001207   -0.451374   -31.884828
1.00000    -0.265302   -12.559417   -0.450524
-0.001207   -0.879472   -78.127626

COMB     CAR ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.214224   13.396021   0.344093
 0.001513    0.828102    20.320490
0.25000     0.214224    34.066583   0.344093
 0.001513    0.401363    77.677953
0.50000     0.214224    63.741529   0.344093
 0.001513    0.066694    99.564516
0.75000     0.214224    91.604926   0.344093
 0.001513    0.580286    72.621228
1.00000     0.214224   121.377278   0.344093
 0.001513    1.141100    17.381207
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                4088

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.265302  -120.293107  -0.450524
-0.001300   -1.098940   -83.622936
0.25000    -0.265302   -90.870085   -0.450524
-0.001300   -0.542996   -32.872021
0.50000    -0.265302   -62.972404   -0.450524
-0.001300   -0.054692   -32.304597
0.75000    -0.265302   -33.358305   -0.450524
-0.001300   -0.451374   -32.383837
1.00000    -0.265302   -12.559417   -0.450524
-0.001300   -0.879472   -83.956416

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.214224   13.396021   0.344093
 0.001513    0.828102    20.320490
0.25000     0.214224    34.066583   0.344093
 0.001513    0.401363    77.677953
0.50000     0.214224    63.741529   0.344093
 0.001513    0.066694    99.564516
0.75000     0.214224    91.604926   0.344093
 0.001513    0.580286    72.621228
1.00000     0.214224   121.377278   0.344093
 0.001513    1.141100    17.381207

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.265302  -120.293107  -0.450524
-0.001300   -1.098940   -83.622936
0.25000    -0.265302   -90.870085   -0.450524
-0.001300   -0.542996   -32.872021
0.50000    -0.265302   -62.972404   -0.450524
-0.001300   -0.054692   -32.304597
0.75000    -0.265302   -33.358305   -0.450524
-0.001300   -0.451374   -32.383837
1.00000    -0.265302   -12.559417   -0.450524
-0.001300   -0.879472   -83.956416

ELEM     394 ================== LENGTH
=     4.972151

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.008855    0.749150    0.060038
0.001193    0.154746    2.754731
0.25000     0.008855    0.774254    0.060038
0.001193    0.080120    2.057098
0.50000     0.008855    0.806875    0.060038
0.001193    0.005720    1.387104
0.75000     0.008855    0.834467    0.060038
0.001193    0.100572    1.011329
1.00000     0.008855    0.870837    0.060038
0.001193    0.211724    0.971559

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.113363   -0.205390   -0.089459
-8.52E-06   -0.233085   -3.294194
0.25000    -0.113363   -0.174231   -0.089459
-8.52E-06   -0.121901   -3.352162
0.50000    -0.113363   -0.143594   -0.089459
-8.52E-06   -0.011580   -3.456730
0.75000    -0.113363   -0.111916   -0.089459
-8.52E-06   -0.069346   -3.563145
1.00000    -0.113363   -0.089885   -0.089459
-8.52E-06   -0.143852   -3.731703

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.177513    7.730819    0.092953
0.001450    0.251988    17.364214
0.25000     0.177513    31.127494   0.092953
 0.001450    0.140232    74.154446
0.50000     0.177513    61.530741   0.092953
 0.001450    0.048973    93.560008
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                4089

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.75000     0.177513   87.246274   0.092953
 0.001450    0.170780    64.975786
1.00000     0.177513   121.143497   0.092953
 0.001450    0.342029    16.938337

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.131353  -119.320968  -0.146631
-8.72E-05   -0.403607   -83.930275
0.25000    -0.131353   -90.280262   -0.146631
-8.72E-05   -0.221388   -34.020949
0.50000    -0.131353   -61.726644   -0.146631
-8.72E-05   -0.050941   -27.522713
0.75000    -0.131353   -32.202905   -0.146631
-8.72E-05   -0.121539   -22.745631
1.00000    -0.131353   -11.669874   -0.146631
-8.72E-05   -0.233200   -75.839299

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.169679    6.101622    0.151673
0.001285    0.388085    15.231164
0.25000     0.169679    22.029938   0.151673
 0.001285    0.202118    52.989165
0.50000     0.169679    42.728285   0.151673
 0.001285    0.037545    65.402966
0.75000     0.169679    60.235265   0.151673
 0.001285    0.262389    45.344489
1.00000     0.169679    83.312291   0.151673
 0.001285    0.531024    12.376404

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.154996   -81.259209  -0.222191
-0.000533   -0.585424   -60.539322
0.25000    -0.154996   -61.488471   -0.222191
-0.000533   -0.309341   -26.602968
0.50000    -0.154996   -42.049339   -0.222191
-0.000533   -0.043038   -22.220493
0.75000    -0.154996   -21.949755   -0.222191
-0.000533   -0.195702   -19.009763
1.00000    -0.154996   -7.970991   -0.222191
-0.000533   -0.381598   -55.197888

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.159389    5.343034    0.209757
0.001071    0.528262    13.510929
0.25000     0.159389    18.560147   0.209757
 0.001071    0.269689    44.546374
0.50000     0.159389    35.253572   0.209757
 0.001071    0.032395    54.787836
0.75000     0.159389    50.262440   0.209757
 0.001071    0.344039    38.141039
1.00000     0.159389    69.411462   0.209757
 0.001071    0.696382    10.764662

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.205437   -67.470129  -0.288503
-0.000879   -0.747834   -51.727767
0.25000    -0.205437   -51.064623   -0.288503
-0.000879   -0.389320   -23.526288
0.50000    -0.205437   -34.934280   -0.288503
-0.000879   -0.040262   -19.848378
0.75000    -0.205437   -18.255901   -0.288503
-0.000879   -0.269026   -17.143166
1.00000    -0.205437   -6.656501   -0.288503
-0.000879   -0.527576   -47.131352

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.167675    6.085984    0.049814
5.35E-05    0.133232    13.07492
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                4090

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.25000     0.167675   25.666892   0.049814
 5.35E-05    0.074517    61.036719
0.50000     0.167675    51.111669   0.049814
 5.35E-05    0.036927    77.695834
0.75000     0.167675    72.633252   0.049814
 5.35E-05    0.098207    54.101774
1.00000     0.167675   101.002173   0.049814
 5.35E-05    0.187878    13.835800

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.011336   -99.881019  -0.079541
-0.000260   -0.221500    -68.245402
0.25000    -0.011336   -75.576565   -0.079541
-0.000260   -0.122858   -26.378933
0.50000    -0.011336   -51.679760   -0.079541
-0.000260   -0.034206   -20.843723
0.75000    -0.011336   -26.971052   -0.079541
-0.000260   -0.076156   -16.749057
1.00000    -0.011336   -9.786755   -0.079541
-0.000260   -0.133826   -61.086956

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.161268    6.196455    0.138985
4.98E-05    0.349618    14.200729
0.25000     0.161268    24.421762   0.138985
 4.98E-05    0.179837    58.183795
0.50000     0.161268    48.104977   0.138985
 4.98E-05    0.036025    73.202834
0.75000     0.161268    68.136605   0.138985
 4.98E-05    0.239231    50.883190
1.00000     0.161268    94.541524   0.138985
 4.98E-05    0.474281    13.213446

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.109969   -92.906426   -0.195947
-0.000810   -0.513192    -65.896263
0.25000    -0.109969   -70.284588   -0.195947
-0.000810   -0.269737    -26.926716
0.50000    -0.109969   -48.042178   -0.195947
-0.000810   -0.037538   -21.773147
0.75000    -0.109969   -25.044072   -0.195947
-0.000810   -0.189505   -17.960842
1.00000    -0.109969   -9.049458   -0.195947
-0.000810   -0.359257   -59.229851

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.226473    5.374011    0.159782
0.000900    0.404350    13.767428
0.25000     0.226473    18.274817   0.159782
 0.000900    0.207862    43.929015
0.50000     0.226473    35.039010   0.159782
 0.000900    0.032188    53.843807
0.75000     0.226473    49.218423   0.159782
 0.000900    0.267503    37.612724
1.00000     0.226473    67.909177   0.159782
 0.000900    0.540955    10.685842

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.155059   -65.938751   -0.224850
-0.000735   -0.586495   -50.140244
0.25000    -0.155059   -49.925885   -0.224850
-0.000735   -0.307101   -22.632025
0.50000    -0.155059   -34.181567   -0.224850
-0.000735   -0.037734   -19.060620
0.75000    -0.155059   -17.902330   -0.224850
-0.000735   -0.206246   -16.438954
1.00000    -0.155059   -6.580522   -0.224850
-0.000735   -0.402708   -45.728477
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                4091

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.212653    4.651320    0.221559
0.000749    0.554786    12.100109
0.25000     0.212653    15.458475   0.221559
 0.000749    0.281156    37.266186
0.50000     0.212653    29.502035   0.221559
 0.000749    0.028161    45.577651
0.75000     0.212653    41.380293   0.221559
 0.000749    0.353398    31.970099
1.00000     0.212653    57.037755   0.221559
 0.000749    0.714872    9.409944

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.153299   -55.293300   -0.294879
-0.001015   -0.759325   -43.365304
0.25000    -0.153299   -41.879111   -0.294879
-0.001015   -0.392869   -20.250675
0.50000    -0.153299   -28.689913   -0.294879
-0.001015   -0.035166   -17.188403
0.75000    -0.153299   -15.052607   -0.294879
-0.001015   -0.283787   -14.921648
1.00000    -0.153299   -5.568197   -0.294879
-0.001015   -0.557400   -39.387203

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.046691    0.235782    0.137919
4.77E-07    0.340185    0.907757
0.25000     0.046691    0.260886    0.137919
4.77E-07    0.168750    0.848150
0.50000     0.046691    0.293507    0.137919
4.77E-07    0.002047    0.843356
0.75000     0.046691    0.321099    0.137919
4.77E-07    0.201504    0.860570
1.00000     0.046691    0.357470    0.137919
4.77E-07    0.407892    0.735989

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.007125   -0.247255   -0.166046
-0.000607   -0.417769   -2.159457
0.25000    -0.007125   -0.216096   -0.166046
-0.000607   -0.211412   -1.973584
0.50000    -0.007125   -0.185459   -0.166046
-0.000607   -0.005534   -1.835319
0.75000    -0.007125   -0.153781   -0.166046
-0.000607   -0.174201   -1.700455
1.00000    -0.007125   -0.131750   -0.166046
-0.000607   -0.345614   -1.629408

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.065463    0.892463    0.227211
2.45E-06    0.559473    2.666271
0.25000     0.065463    1.645574    0.227211
2.45E-06    0.277182    3.886180
0.50000     0.065463    2.624230    0.227211
2.45E-06    0.004696    4.283295
0.75000     0.065463    3.451973    0.227211
2.45E-06    0.339583    3.364627
1.00000     0.065463    4.543085    0.227211
2.45E-06    0.686975    1.800950

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000    -0.128039   -3.995850   -0.279780
-0.001136   -0.704763   -6.450964
0.25000    -0.128039   -3.061064   -0.279780
-0.001136   -0.357019   -4.687557
0.50000    -0.128039   -2.141956   -0.279780
-0.001136   -0.011159   -4.322540
0.75000    -0.128039   -1.191621   -0.279780
-0.001136   -0.288677   -4.015867
1.00000    -0.128039   -0.530686   -0.279780
-0.001136   -0.570985   -5.574463
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD          >
                                4092

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000     0.124579    1.533166    0.255945
3.61E-06    0.627374    5.255816
0.25000     0.124579    2.730614    0.255945
3.61E-06    0.309450    7.057784
0.50000     0.124579    4.286660    0.255945
3.61E-06    0.007997    7.324634
0.75000     0.124579    5.602787    0.255945
```

```
3.61E-06     0.394119     5.382021
1.00000      0.124579     7.337656      0.255945
3.61E-06     0.797425     2.646031

COMB DB-G3-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.097907    -6.291992    -0.324964
-0.001362    -0.819717    -9.808318
0.25000    -0.097907    -4.805681    -0.324964
-0.001362    -0.411901    -7.126530
0.50000    -0.097907    -3.344300    -0.324964
-0.001362    -0.016376    -6.666786
0.75000    -0.097907    -1.833267    -0.324964
-0.001362    -0.328369    -6.297418
1.00000    -0.097907    -0.782381    -0.324964
-0.001362    -0.646357    -8.892283

COMB DB-G3-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.236138     5.063468     0.238562
0.000495     0.596615    12.675984
0.25000     0.236138    17.828714     0.238562
 0.000495     0.302159    42.895040
0.50000     0.236138    34.416751     0.238562
 0.000495     0.030648    53.053340
0.75000     0.236138    48.447168     0.238562
 0.000495     0.375437    37.226954
1.00000     0.236138    66.941522     0.238562
 0.000495     0.756525    10.753953

COMB DB-G3-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.110786   -65.322880    -0.311399
-0.001127    -0.801157    -49.647341
0.25000    -0.110786    -49.478246    -0.311399
-0.001127    -0.414168    -22.281539
0.50000    -0.110786    -33.899367    -0.311399
-0.001127    -0.036475    -18.600979
0.75000    -0.110786    -17.791190    -0.311399
-0.001127    -0.307557    -15.861664
1.00000    -0.110786     -6.588350    -0.311399
-0.001127    -0.602046    -44.698682

COMB DL-G1-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.013224     0.901418     0.069881
0.001264     0.176155     2.999156
0.25000     0.013224     0.912707     0.069881
0.001264     0.089273     2.527478
0.50000     0.013224     0.932689     0.069881
0.001264     0.007526     2.156308
0.75000     0.013224     0.953919     0.069881
0.001264     0.121610     1.900923
1.00000     0.013224     0.971558     0.069881
0.001264     0.257653     1.839090

COMB DL-G1-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.300521    -0.177705    -0.109201
-6.84E-06    -0.285016    -4.801599
0.25000    -0.300521    -0.158614    -0.109201
-6.84E-06    -0.149709    -5.266382
0.50000    -0.300521    -0.137058    -0.109201
-6.84E-06    -0.018142    -5.847063
0.75000    -0.300521    -0.117771    -0.109201
-6.84E-06    -0.083256    -6.531491
1.00000    -0.300521    -0.110888    -0.109201
-6.84E-06    -0.170347    -7.359399
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4093

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.271290     8.589302     0.116686
0.001469     0.312184    15.298430
0.25000     0.271290    26.560850     0.116686
 0.001469     0.171766    55.510978
0.50000     0.271290    58.371785     0.116686
 0.001469     0.054298    75.391861
0.75000     0.271290    92.170783     0.116686
 0.001469     0.220722    82.781241
1.00000     0.271290   120.252421     0.116686
 0.001469     0.431547    14.800909

COMB DL-G1-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.299296   -119.293252    -0.185344
-5.88E-05    -0.501433    -78.089540
0.25000    -0.299296    -88.900004    -0.185344
-5.88E-05    -0.272438    -34.614240
0.50000    -0.299296    -54.583606    -0.185344
-5.88E-05    -0.057983    -29.315845
0.75000    -0.299296    -23.878210    -0.185344
-5.88E-05    -0.157201    -25.235874
1.00000    -0.299296    -12.921115    -0.185344
-5.88E-05    -0.302311    -73.188788

COMB DL-G1-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.264693     6.979981     0.217553
0.001324     0.549790    14.275386
0.25000     0.264693    19.740683     0.217553
 0.001324     0.282420    42.255439
0.50000     0.264693    42.328045     0.217553
 0.001324     0.045112    55.924544
0.75000     0.264693    66.327032     0.217553
 0.001324     0.366405    37.481282
1.00000     0.264693    86.266407     0.217553
 0.001324     0.733008    12.491333

COMB DL-G1-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.303218    -84.757927    -0.305857
-0.000436    -0.795869    -60.246593
0.25000    -0.303218    -63.177194    -0.305857
-0.000436    -0.276569    -29.762057
0.50000    -0.303218    -38.810827    -0.305857
-0.000436    -0.057134    -26.483388
0.75000    -0.303218    -17.008453    -0.305857
-0.000436    -0.283350    -24.171511
1.00000    -0.303218     -9.228365    -0.305857
-0.000436    -0.553934    -58.933020

COMB DL-G1-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.247763     6.100053     0.301778
0.001103     0.754195    13.089707
0.25000     0.247763    16.691639     0.301778
 0.001103     0.382060    36.086989
0.50000     0.247763    35.439510     0.301778
 0.001103     0.039565    47.288175
0.75000     0.247763    55.359051     0.301778
 0.001103     0.477415    31.942129
1.00000     0.247763    71.909049     0.301778
 0.001103     0.958679    11.219873

COMB DL-G1-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.352138    -70.423867    -0.396110
-0.000782    -1.017516    -51.977131
0.25000    -0.352138    -52.511515    -0.396110
-0.000782    -0.524829    -26.712053
0.50000    -0.352138    -32.287043    -0.396110
-0.000782    -0.054194    -24.085726
0.75000    -0.352138    -14.190725    -0.396110
-0.000782    -0.388087    -22.334264
1.00000    -0.352138     -7.733127    -0.396110
-0.000782    -0.763067    -51.441635
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4094

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.286336     5.753912     0.076872
4.86E-05     0.199950     9.921026
0.25000     0.286336    18.352057     0.076872
 4.86E-05     0.107690    38.212764
0.50000     0.286336    40.651682     0.076872
 4.86E-05     0.035070    52.224037
0.75000     0.286336    64.344950     0.076872
 4.86E-05     0.138158    34.455336
1.00000     0.286336    84.030319     0.076872
 4.86E-05     0.258524    10.060776

COMB DL-G2-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.012439    -83.691774    -0.108050
-0.000204    -0.287061    -52.878983
0.25000    -0.012439    -62.385955    -0.108050
-0.000204    -0.152922    -22.160435
0.50000    -0.012439    -38.329988    -0.108050
-0.000204    -0.032276    -18.176825
0.75000    -0.012439    -16.805350    -0.108050
-0.000204    -0.110883    -14.955305
1.00000    -0.012439     -9.124371    -0.108050
-0.000204    -0.206582    -48.268266

COMB DL-G2-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.267933     6.038800     0.215539
4.64E-05     0.537489    11.655441
0.25000     0.267933    18.061224     0.215539
 4.64E-05     0.272765    38.276440
0.50000     0.267933    39.341781     0.215539
 4.64E-05     0.036851    51.348060
0.75000     0.267933    61.952291     0.215539
 4.64E-05     0.345664    34.143679
1.00000     0.267933    80.738061     0.215539
 4.64E-05     0.678686    10.700038

COMB DL-G2-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.120796    -79.808964    -0.278428
-0.000701    -0.713850    -53.772957
0.25000    -0.120796    -59.476797    -0.278428
-0.000701    -0.367049    -24.682834
0.50000    -0.120796    -36.520162    -0.278428
-0.000701    -0.041604    -21.172434
0.75000    -0.120796    -15.979178    -0.278428
-0.000701    -0.287507    -18.542574
1.00000    -0.120796     -8.649211    -0.278428
-0.000701    -0.555130    -50.814484

COMB DL-G2-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.308597     5.089026     0.235181
0.000913     0.587386    11.749721
0.25000     0.308597    12.901908     0.235181
 0.000913     0.296902    28.301422
0.50000     0.308597    26.731272     0.235181
 0.000913     0.033234    36.227922
0.75000     0.308597    41.424920     0.235181
 0.000913     0.376315    24.921236
1.00000     0.308597    53.633024     0.235181
 0.000913     0.759442     9.824911

COMB DL-G2-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.210364    -52.112852    -0.314671
-0.000638    -0.181032    -40.858576
0.25000    -0.210364    -38.899807    -0.314671
-0.000638    -0.418015    -22.385742
0.50000    -0.210364    -23.981228    -0.314671
-0.000638    -0.046898    -20.800301
0.75000    -0.210364    -10.632481    -0.314671
-0.000638    -0.301778    -19.731145
1.00000    -0.210364     -5.859036    -0.314671
-0.000638    -0.594226    -41.513356
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4095

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.295195     4.464895     0.327649
0.000761     0.814156    10.912039
0.25000     0.295195    11.026429     0.327649
 0.000761     0.408518    24.675302
0.50000     0.295195    22.640817     0.327649
 0.000761     0.029971    31.269502
0.75000     0.295195    34.981060     0.327649
 0.000761     0.497053    21.721138
1.00000     0.295195    45.233857     0.327649
 0.000761     1.003418     9.029863

COMB DL-G2-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.206621    -43.861778    -0.412611
-0.000929    -1.052544    -36.146810
0.25000    -0.206621    -32.764997    -0.412611
-0.000929    -0.539463    -20.583346
0.50000    -0.206621    -20.235848    -0.412611
-0.000929    -0.045413    -19.256253
0.75000    -0.206621     -9.025099    -0.412611
-0.000929    -0.416610    -18.399008
1.00000    -0.206621     -5.024589    -0.412611
-0.000929    -0.823825    -36.773867

COMB DL-G3-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.095863     0.283591     0.207285
2.97E-07     0.511650     1.644321
0.25000     0.095863     0.294880     0.207285
2.97E-07     0.254192     1.505459
0.50000     0.095863     0.314862     0.207285
2.97E-07     0.003464     1.419514
0.75000     0.095863     0.336092     0.207285
2.97E-07     0.284623     1.350510
1.00000     0.095863     0.353731     0.207285
2.97E-07     0.574660     1.315608

COMB DL-G3-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.009111    -0.274279    -0.233186
-0.000596    -0.584744    -2.904202
0.25000    -0.009111    -0.255188    -0.233186
-0.000596    -0.294658    -2.765062
0.50000    -0.009111    -0.233633    -0.233186
-0.000596    -0.009027    -2.697114
0.75000    -0.009111    -0.214345    -0.233186
-0.000596    -0.259164    -2.694740
1.00000    -0.009111    -0.207463    -0.233186
-0.000596    -0.517184    -2.770433

COMB DL-G3-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.117169     0.911992     0.340758
1.69E-06     0.839184     3.566296
0.25000     0.117169     1.284518     0.340758
1.69E-06     0.416005     3.899068
0.50000     0.117169     1.949316     0.340758
1.69E-06     0.006857     3.965010
0.75000     0.117169     2.644523     0.340758
1.69E-06     0.481243     3.324200
1.00000     0.117169     3.226617     0.340758
1.69E-06     0.971259     2.594992

COMB DL-G3-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.163686    -2.739295    -0.394337
-0.001119    -0.989586    -6.965673
0.25000    -0.163686    -2.109285    -0.394337
-0.001119    -0.499107    -5.092212
0.50000    -0.163686    -1.397952    -0.394337
-0.001119    -0.018510    -6.047901
0.75000    -0.163686    -0.761471    -0.394337
-0.001119    -0.428987    -6.230806
1.00000    -0.163686    -0.534345    -0.394337
-0.001119    -0.852729    -7.663450
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4096

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.224668     1.345546     0.390999
2.78E-06     0.957663     5.681080
0.25000     0.224668     1.355706     0.390999
2.78E-06     0.471508     4.796775
0.50000     0.224668     1.373690     0.390999
2.78E-06     0.010376     4.138785
0.75000     0.224668     1.392797     0.390999
2.78E-06     0.564897     3.847719
1.00000     0.224668     1.408672     0.390999
2.78E-06     1.140380     3.822900

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.116255    -0.400635    -0.462818
-0.001261    -1.160636    -8.254047
0.25000    -0.116255    -0.383453    -0.462818
-0.001261    -0.583806    -8.501790
0.50000    -0.116255    -0.364053    -0.462818
-0.001261    -0.026587    -8.947340
0.75000    -0.116255    -0.346695    -0.462818
-0.001261    -0.495689    -9.595341
1.00000    -0.116255    -0.340500    -0.462818
-0.001261    -0.981841    -10.519931

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.354083     4.562901     0.358090
0.000479     0.889020    10.933035
0.25000     0.354083    11.674757     0.358090
 0.000479     0.445514    26.040831
0.50000     0.354083    24.263256     0.358090
 0.000479     0.030459    33.317357
0.75000     0.354083    37.638487     0.358090
 0.000479     0.532605    23.075006
1.00000     0.354083    48.751196     0.358090
 0.000479     1.070434     9.351059

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.139805   -47.590408    -0.438807
-0.001046    -1.164564   -47.392247
0.25000    -0.139805   -35.562929    -0.438807
-0.001046    -0.569541   -20.791570
0.50000    -0.139805   -21.982947    -0.438807
-0.001046    -0.044116   -18.994615
0.75000    -0.139805    -9.831943    -0.438807
-0.001046    -0.456170   -17.823958
1.00000    -0.139805     -5.495926    -0.438807
-0.001046    -0.901342   -37.457507

COMB DB ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.236138     7.730819     0.255945
0.001450     0.627374    17.364214
0.25000     0.236138    31.127494     0.255945
 0.001450     0.309450    74.154446
0.50000     0.236138    61.530741     0.255945
 0.001450     0.048973    93.560008
0.75000     0.236138    87.246274     0.255945
 0.001450     0.394119    64.975786
1.00000     0.236138   121.143497     0.255945
 0.001450     0.797425    16.938337

COMB DB ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.205437   -119.320968    -0.324964
-0.001362    -0.819717    -83.930275
0.25000    -0.205437    -90.280262    -0.324964
-0.001362    -0.415901    -34.020949
0.50000    -0.205437    -61.726644    -0.324964
-0.001362    -0.050941    -27.522713
0.75000    -0.205437    -32.202905    -0.324964
-0.001362    -0.328369    -22.745631
1.00000    -0.205437    -11.669874    -0.324964
-0.001362    -0.646357    -75.839299
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4097

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.354083     8.589302     0.399099
0.001469     0.957663    17.364214
0.25000     0.354083    26.560850     0.399099
 0.001469     0.471508    55.510978
0.50000     0.354083    58.371785     0.399099
 0.001469     0.054298    75.391861
0.75000     0.354083    92.170783     0.399099
 0.001469     0.564897    49.822781
1.00000     0.354083   120.252421     0.399099
 0.001469     1.140380    14.800909

COMB      DL ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.352138   -119.293252    -0.462818
-0.001261    -1.160636    -78.089540
0.25000    -0.352138    -88.900004    -0.462818
-0.001261    -0.583806    -34.614240
0.50000    -0.352138    -54.583606    -0.462818
-0.001261    -0.057983    -29.315845
0.75000    -0.352138    -23.878210    -0.462818
-0.001261    -0.495689    -25.235874
1.00000    -0.352138    -12.921115    -0.462818
-0.001261    -0.981841    -73.188788

COMB      CAR ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.354083     8.589302     0.399099
0.001469     0.957663    17.364214
0.25000     0.354083    31.127494     0.399099
 0.001469     0.471508    74.154446
0.50000     0.354083    61.530741     0.399099
 0.001469     0.054298    93.560008
0.75000     0.354083    92.170783     0.399099
 0.001469     0.564897    64.975786
1.00000     0.354083   121.143497     0.399099
 0.001469     1.140380    16.938337

COMB      CAR ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.352138   -119.320968    -0.462818
-0.001362    -1.160636    -83.930275
0.25000    -0.352138    -90.280262    -0.462818
-0.001362    -0.583806    -34.614240
0.50000    -0.352138    -61.726644    -0.462818
-0.001362    -0.057983    -29.315845
0.75000    -0.352138    -32.202905    -0.462818
-0.001362    -0.495689    -25.235874
1.00000    -0.352138    -12.921115    -0.462818
-0.001362    -0.981841    -75.839299

COMB    DESIGN ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.354083     8.589302     0.399099
0.001469     0.957663    17.364214
0.25000     0.354083    31.127494     0.399099
 0.001469     0.471508    74.154446
0.50000     0.354083    61.530741     0.399099
 0.001469     0.054298    93.560008
0.75000     0.354083    92.170783     0.399099
 0.001469     0.564897    64.975786
1.00000     0.354083   121.143497     0.399099
 0.001469     1.140380    16.938337

COMB    DESIGN ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.352138   -119.320968    -0.462818
-0.001362    -1.160636    -83.930275
0.25000    -0.352138    -90.280262    -0.462818
-0.001362    -0.583806    -34.614240
0.50000    -0.352138    -61.726644    -0.462818
-0.001362    -0.057983    -29.315845
0.75000    -0.352138    -32.202905    -0.462818
-0.001362    -0.495689    -25.235874
1.00000    -0.352138    -12.921115    -0.462818
-0.001362    -0.981841    -75.839299
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4098

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      395 ================== LENGTH
=     3.481707

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.020960     0.521057     0.115031
0.001005     0.197605     0.974075
0.25000     0.020960     0.546804     0.115031
0.001005     0.097502     0.985107
0.50000     0.020960     0.574533     0.115031
0.001005     0.002201     0.976632
0.75000     0.020960     0.603017     0.115031
0.001005     0.111613     0.945705
1.00000     0.020960     0.623201     0.115031
0.001005     0.233962     0.892915

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.239794    -0.299559    -0.140579
-0.000530    -0.255482    -3.708662
0.25000    -0.239794    -0.280127    -0.140579
-0.000530    -0.133271    -3.574325
0.50000    -0.239794    -0.254260    -0.140579
-0.000530    -0.011720    -3.470719
0.75000    -0.239794    -0.223655    -0.140579
-0.000530    -0.103376    -3.370192
1.00000    -0.239794    -0.201048    -0.140579
-0.000530    -0.203406    -3.304088

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.367102    12.382052     0.180029
0.001186     0.304693    16.924557
0.25000     0.367102    36.378727     0.180029
0.001186     0.162516    57.734969
0.50000     0.367102    62.227278     0.180029
0.001186     0.039812    70.615137
0.75000     0.367102    88.768600     0.180029
0.001186     0.177371    54.056904
1.00000     0.367102   107.580513     0.180029
0.001186     0.355082    17.325755

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.239825   -110.114716    -0.229132
-0.000695    -0.446379    -75.836407
0.25000    -0.239825    -92.003843    -0.229132
-0.000695    -0.246930    -40.749541
0.50000    -0.239825    -67.895507    -0.229132
-0.000695    -0.062657    -34.928292
0.75000    -0.239825    -39.371913    -0.229132
-0.000695    -0.183168    -29.131670
1.00000    -0.239825    -18.302617    -0.229132
-0.000695    -0.339852    -53.835967

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.304933     9.153457     0.315445
0.001051     0.538886    12.373562
0.25000     0.304933    25.490249     0.315445
 0.001051     0.274198    40.267558
0.50000     0.304933    43.083702     0.315445
 0.001051     0.029961    49.072589
0.75000     0.304933    61.156960     0.315445
 0.001051     0.297029    37.787725
1.00000     0.304933    73.963997     0.315445
 0.001051     0.606601    12.766612

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.214618    -74.984230    -0.372687
-0.001023    -0.693491    -55.216849
0.25000    -0.214618    -62.654458    -0.372687
-0.001023    -0.369065    -31.360040
0.50000    -0.214618    -46.241646    -0.372687
-0.001023    -0.055740    -27.426955
Program    SAP2000    Nonlinear    Version    7.42
```

File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4099

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.214618	-26.822955	-0.372687
-0.001023	-0.296807	-23.507962	
1.00000	-0.214618	-12.479105	-0.372687
-0.001023	-0.571426	-40.345185	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.290814	7.776817	0.440601
0.001054	0.758582	10.767956	
0.25000	0.290814	21.332879	0.440601
0.001054	0.383273	33.909248	
0.50000	0.290814	35.931702	0.440601
0.001054	0.026483	41.211244	
0.75000	0.290814	50.928660	0.440601
0.001054	0.405747	31.842901	
1.00000	0.290814	61.555776	0.440601
0.001054	0.828760	11.153586	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.357608	-62.497158	-0.500104
-0.001226	-0.914542	-47.177767	
0.25000	-0.357608	-52.266071	-0.500104
-0.001226	-0.479213	-27.323170	
0.50000	-0.357608	-38.646930	-0.500104
-0.001226	-0.053223	-24.007561	
0.75000	-0.357608	-22.533547	-0.500104
-0.001226	-0.401878	-20.709234	
1.00000	-0.357608	-10.631203	-0.500104
-0.001226	-0.785443	-34.637720	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.393243	10.225156	0.109399
7.20E-05	0.184200	13.823697	
0.25000	0.393243	30.308210	0.109399
7.20E-05	0.101071	47.728014	
0.50000	0.393243	51.936096	0.109399
7.20E-05	0.032184	58.550283	
0.75000	0.393243	74.153812	0.109399
7.20E-05	0.104983	44.701777	
1.00000	0.393243	89.897688	0.109399
7.20E-05	0.204138	13.967087	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.008517	-92.124139	-0.134739
-0.000252	-0.268041	-61.114546	
0.25000	-0.008517	-76.966973	-0.134739
-0.000252	-0.150794	-31.869017	
0.50000	-0.008517	-56.790467	-0.134739
-0.000252	-0.045489	-27.119658	
0.75000	-0.008517	-32.918790	-0.134739
-0.000252	-0.116403	-22.393907	
1.00000	-0.008517	-15.285688	-0.134739
-0.000252	-0.211594	-43.188466	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.345504	9.788847	0.305428
6.11E-05	0.523421	13.214659	
0.25000	0.345504	28.481536	0.305428
6.11E-05	0.268770	45.139895	
0.50000	0.345504	48.612107	0.305428
6.11E-05	0.032168	55.229546	
0.75000	0.345504	69.291673	0.305428
6.11E-05	0.281887	42.332320	
1.00000	0.345504	83.945588	0.305428
6.11E-05	0.568067	13.823654	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.147267	-85.938515	-0.348213
-0.000711	-0.647210	-59.289297	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4100

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.147267	-71.830690	-0.348213
-0.000711	-0.344092	-32.044259	
0.50000	-0.147267	-53.051020	-0.348213
-0.000711	-0.052472	-27.599584	
0.75000	-0.147267	-30.831997	-0.348213
-0.000711	-0.287872	-23.173681	
1.00000	-0.147267	-14.419648	-0.348213
-0.000711	-0.553789	-42.498657	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.455367	8.014632	0.336289
0.000817	0.576624	10.688892	
0.25000	0.455367	21.246275	0.336289
0.000817	0.291830	32.960035	
0.50000	0.455367	35.495724	0.336289
0.000817	0.025461	40.088345	
0.75000	0.455367	50.133781	0.336289
0.000817	0.309808	30.945264	
1.00000	0.455367	60.506573	0.336289
0.000817	0.633516	10.772336	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.221663	-60.981841	-0.385650
-0.001065	-0.711293	-45.767639	
0.25000	-0.221663	-50.995600	-0.385650
-0.001065	-0.375725	-26.502219	
0.50000	-0.221663	-37.702386	-0.385650
-0.001065	-0.049359	-23.381728	
0.75000	-0.221663	-21.974624	-0.385650
-0.001065	-0.311586	-20.278053	
1.00000	-0.221663	-10.357122	-0.385650
-0.001065	-0.604091	-33.990265	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.431145	6.832639	0.467306
0.000903	0.806990	9.412790	
0.25000	0.431145	17.916940	0.467306
0.000903	0.406866	28.079675	
0.50000	0.431145	29.853869	0.467306
0.000903	0.022978	34.047310	
0.75000	0.431145	42.116339	0.467306
0.000903	0.423417	26.384211	
1.00000	0.431145	50.805748	0.467306
0.000903	0.864826	9.463916	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.238108	-51.177179	-0.518646
-0.001231	-0.942751	-39.452677	
0.25000	-0.238108	-42.811589	-0.518646
-0.001231	-0.491395	-23.260764	
0.50000	-0.238108	-31.675710	-0.518646
-0.001231	-0.047812	-20.597237	
0.75000	-0.238108	-18.500380	-0.518646
-0.001231	-0.421700	-17.951444	
1.00000	-0.238108	-8.768264	-0.518646
-0.001231	-0.828284	-29.396738	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.103229	0.244895	0.290746
0.000373	0.507905	0.744830	
0.25000	0.103229	0.270643	0.290746
0.000373	0.254846	0.782486	
0.50000	0.103229	0.298371	0.290746
0.000373	0.002678	0.790346	
0.75000	0.103229	0.326855	0.290746
0.000373	0.255740	0.766687	
1.00000	0.103229	0.347040	0.290746
0.000373	0.521078	0.737213	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4101

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.021011	-0.274119	-0.304863
-0.000525	-0.540375	-1.680283	
0.25000	-0.021011	-0.254687	-0.304863
-0.000525	-0.275012	-1.572488	
0.50000	-0.021011	-0.228820	-0.304863
-0.000525	-0.009751	-1.500626	
0.75000	-0.021011	-0.198215	-0.304863
-0.000525	-0.251334	-1.433552	
1.00000	-0.021011	-0.175609	-0.304863
-0.000525	-0.504409	-1.402470	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.140778	0.899017	0.482908
0.000515	0.841499	1.814696	
0.25000	0.140778	1.671442	0.482908
0.000515	0.421612	3.122985	
0.50000	0.140778	2.503284	0.482908
0.000515	0.005638	3.529012	
0.75000	0.140778	3.357811	0.482908
0.000515	0.428533	2.985304	
1.00000	0.140778	3.963345	0.482908
0.000515	0.874298	2.005161	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.290943	-4.184838	-0.512901
-0.000978	-0.911617	-5.657965	
0.25000	-0.290943	-3.601870	-0.512901
-0.000978	-0.465180	-4.402103	
0.50000	-0.290943	-2.825851	-0.512901
-0.000978	-0.019468	-4.100585	
0.75000	-0.290943	-1.907709	-0.512901
-0.000978	-0.420060	-3.808980	
1.00000	-0.290943	-1.229513	-0.512901
-0.000978	-0.840415	-4.505456	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.241897	1.697634	0.553047
0.000427	0.959719	2.673890	
0.25000	0.241897	2.925790	0.553047
0.000427	0.479020	4.723418	
0.50000	0.241897	4.248419	0.553047
0.000427	0.007843	5.369109	
0.75000	0.241897	5.607118	0.553047
0.000427	0.492926	4.504625	
1.00000	0.241897	6.569916	0.553047
0.000427	1.008800	2.695906	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.147523	-6.029196	-0.593976
-0.001184	-1.015636	-7.350578	
0.25000	-0.147523	-5.102277	-0.593976
-0.001184	-0.542508	-7.166005	
0.50000	-0.147523	-3.868406	-0.593976
-0.001184	-0.026897	-6.856341	
0.75000	-0.147523	-2.408561	-0.593976
-0.001184	-0.485292	-6.555463	
1.00000	-0.147523	-1.350229	-0.593976
-0.001184	-0.966738	-7.822642	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.507144	7.715608	0.504634
0.000744	0.873390	10.760804	
0.25000	0.507144	20.808214	0.504634
0.000744	0.442074	32.746909	
0.50000	0.507144	34.907932	0.504634
0.000744	0.026091	39.778303	
0.75000	0.507144	49.392174	0.504634
0.000744	0.453800	30.733035	
1.00000	0.507144	59.655970	0.504634
0.000744	0.923901	10.752323	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4102

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.156937	-60.413153	-0.553682
-0.001197	-1.005898	-44.780911	
0.25000	-0.156937	-50.531847	-0.553682
-0.001197	-0.523931	-25.265635	
0.50000	-0.156937	-37.378317	-0.553682
-0.001197	-0.050752	-22.531853	
0.75000	-0.156937	-21.815820	-0.553682
-0.001197	-0.454566	-19.417664	
1.00000	-0.156937	-10.320394	-0.553682
-0.001197	-0.893697	-32.948589	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.025871	0.526269	0.145249
0.001053	0.246323	1.835530	
0.25000	0.025871	0.535606	0.145249
0.001053	0.119492	1.781020	
0.50000	0.025871	0.554199	0.145249
0.001053	0.004017	1.752740	
0.75000	0.025871	0.573607	0.145249
0.001053	0.135682	1.745957	
1.00000	0.025871	0.589989	0.145249
0.001053	0.285157	1.741816	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.588546	-0.325313	-0.171333
-0.000507	-0.311599	-7.337577	
0.25000	-0.588546	-0.307568	-0.171333
-0.000507	-0.162481	-7.387224	
0.50000	-0.588546	-0.287817	-0.171333
-0.000507	-0.021052	-7.489084	
0.75000	-0.588546	-0.269728	-0.171333
-0.000507	-0.130912	-7.623426	
1.00000	-0.588546	-0.266023	-0.171333
-0.000507	-0.258031	-7.791094	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.543941	13.592528	0.247436
0.001190	0.421917	14.791224	
0.25000	0.543941	28.297464	0.247436
0.001190	0.219923	40.884126	
0.50000	0.543941	58.057694	0.247436
0.001190	0.041942	54.141122	
0.75000	0.543941	88.954615	0.247436
0.001190	0.236116	37.999597	
1.00000	0.543941	115.035663	0.247436
0.001190	0.471396	14.870057	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.549264	-115.217428	-0.297569
-0.000618	-0.570203	-73.187567	
0.25000	-0.549264	-86.967683	-0.297569
-0.000618	-0.312127	-43.809905	
0.50000	-0.549264	-55.523960	-0.297569
-0.000618	-0.071490	-38.641830	
0.75000	-0.549264	-26.726482	-0.297569
-0.000618	-0.242492	-33.627866	
1.00000	-0.549264	-20.827654	-0.297569
-0.000618	-0.458651	-62.758588	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.505954	10.425629	0.469021
0.001063	0.804714	12.491821	
0.25000	0.505954	20.866872	0.469021
0.001063	0.405387	30.851117	
0.50000	0.505954	41.998131	0.469021
0.001063	0.034159	40.269134	
0.75000	0.505954	63.936498	0.469021
0.001063	0.427728	28.805188	
1.00000	0.505954	82.491821	0.469021
0.001063	0.869874	12.383619	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4103

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.507545	-81.877642	-0.527162
-0.000890	-0.969696	-58.927820	
0.25000	-0.507545	-61.818904	-0.527162
-0.000890	-0.511462	-38.435673	
0.50000	-0.507545	-39.492280	-0.527162
-0.000890	-0.072001	-35.179680	
0.75000	-0.507545	-19.044624	-0.527162
-0.000890	-0.430741	-32.086209	
1.00000	-0.507545	-14.856160	-0.527162
-0.000890	-0.840197	-53.253922	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.476801	8.854547	0.643811
0.001030	1.111697	11.222708	
0.25000	0.476801	17.520945	0.643811
0.001030	0.558187	26.460323	
0.50000	0.476801	35.060227	0.643811
0.001030	0.030748	34.290795	
0.75000	0.476801	53.269420	0.643811
0.001030	0.577590	24.810092	
1.00000	0.476801	68.640365	0.643811
0.001030	1.175258	11.264690	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.625525	-68.218986	-0.702609
-0.001084	-1.274521	-51.435173	
0.25000	-0.625525	-51.569914	-0.702609
-0.001084	-0.663469	-34.394598	
0.50000	-0.625525	-33.038461	-0.702609
-0.001084	-0.069045	-31.691232	
0.75000	-0.625525	-16.066581	-0.702609
-0.001084	-0.577242	-29.145854	
1.00000	-0.625525	-12.590089	-0.702609
-0.001084	-1.139152	-46.765460	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.616551	9.726435	0.174551
6.73E-05	0.299973	10.061962	
0.25000	0.616551	20.034569	0.174551
6.73E-05	0.157066	28.175199	
0.50000	0.616551	40.896640	0.174551
6.73E-05	0.028116	37.314822	
0.75000	0.616551	62.555537	0.174551
6.73E-05	0.159277	25.491620	
1.00000	0.616551	80.838483	0.174551
6.73E-05	0.313582	9.807629	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.008298	-80.733498	-0.196072
-0.000202	-0.372497	-48.284880	
0.25000	-0.008298	-60.930285	-0.196072
-0.000202	-0.202089	-27.855281	
0.50000	-0.008298	-38.888077	-0.196072
-0.000202	-0.045779	-24.398546	
0.75000	-0.008298	-18.700900	-0.196072
-0.000202	-0.169168	-21.068588	
1.00000	-0.008298	-14.565792	-0.196072
-0.000202	-0.321432	-41.691704	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.548096	9.557228	0.473587
5.20E-05	0.818384	10.711714	
0.25000	0.548096	19.394387	0.473587
5.20E-05	0.414106	28.026748	
0.50000	0.548096	39.303083	0.473587
5.20E-05	0.029845	36.936791	
0.75000	0.548096	59.972192	0.473587
5.20E-05	0.424063	26.174422	
1.00000	0.548096	77.419627	0.473587
5.20E-05	0.854724	10.790101	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4104

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.166769	-77.202516	-0.513081
-0.000598	-0.935082	-50.829370	
0.25000	-0.166769	-58.304289	-0.513081
-0.000598	-0.488623	-31.422262	
0.50000	-0.166769	-37.269386	-0.513081
-0.000598	-0.055245	-28.271235	
0.75000	-0.166769	-18.004741	-0.513081
-0.000598	-0.429072	-25.272878	
1.00000	-0.166769	-14.058603	-0.513081
-0.000598	-0.842431	-45.143555	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.618069	7.467970	0.501307
0.000801	0.864508	9.827104	
0.25000	0.618069	13.860738	0.501307
0.000801	0.432813	20.562863	
0.50000	0.618069	26.798587	0.501307
0.000801	0.024872	26.080026	
0.75000	0.618069	40.230596	0.501307
0.000801	0.447253	19.078278	
1.00000	0.618069	51.568971	0.501307
0.000801	0.914816	9.119109	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.319562	-50.375509	-0.549340
-0.000927	-1.000814	-41.507564	
0.25000	-0.319562	-38.994323	-0.549340
-0.000927	-0.523081	-29.260888	
0.50000	-0.319562	-24.424599	-0.549340
-0.000927	-0.060288	-27.641836	
0.75000	-0.319562	-11.905293	-0.549340
-0.000927	-0.450601	-26.188698	
1.00000	-0.319562	-9.340859	-0.549340
-0.000927	-0.888092	-39.742123	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.597327	6.414186	0.691346
0.000860	1.198349	9.036320	
0.25000	0.597327	11.783057	0.691346
0.000860	0.600069	18.079388	
0.50000	0.597327	22.648719	0.691346
0.000860	0.023588	22.737442	
0.75000	0.597327	33.929395	0.691346
0.000860	0.609616	16.870239	
1.00000	0.597327	43.451763	0.691346
0.000860	1.243830	8.516861	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.330569	-42.440194	-0.738972
-0.001102	-1.331507	-36.770648	
0.25000	-0.330569	-32.126021	-0.738972
-0.001102	-0.688522	-26.525574	
0.50000	-0.330569	-20.645704	-0.738972
-0.001102	-0.058806	-25.203130	
0.75000	-0.330569	-9.131550	-0.738972
-0.001102	-0.610720	-24.014840	
1.00000	-0.330569	-7.977848	-0.738972
-0.001102	-1.213945	-35.435528	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.207906	0.301976	0.428410
0.000337	0.749248	1.330858	
0.25000	0.207906	0.311213	0.428410
0.000337	0.375562	1.337981	
0.50000	0.207906	0.329906	0.428410
0.000337	0.004862	1.352840	
0.75000	0.207906	0.349314	0.428410
0.000337	0.368771	1.361924	
1.00000	0.207906	0.365697	0.428410
0.000337	0.749123	1.378826	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4105

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.029453	-0.272009	-0.437029
-0.000504	-0.772474	-2.784217	
0.25000	-0.029453	-0.254265	-0.437029
-0.000504	-0.392097	-2.839433	
0.50000	-0.029453	-0.234514	-0.437029
-0.000504	-0.012475	-2.927363	
0.75000	-0.029453	-0.216425	-0.437029
-0.000504	-0.367234	-3.030204	
1.00000	-0.029453	-0.212719	-0.437029
-0.000504	-0.741204	-3.164048	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.249345	0.864473	0.712470
0.000450	1.243018	2.616486	
0.25000	0.249345	1.169286	0.712470
0.000450	0.621974	3.152251	
0.50000	0.249345	1.786175	0.712470
0.000450	0.008248	3.455077	
0.75000	0.249345	2.426627	0.712470
0.000450	0.619473	3.229496	
1.00000	0.249345	2.967251	0.712470
0.000450	1.260360	2.927004	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.346552	-2.989396	-0.736843
-0.000919	-1.305194	-7.679666	
0.25000	-0.346552	-2.403817	-0.736843
-0.000919	-0.663858	-7.066116	
0.50000	-0.346552	-1.752031	-0.736843
-0.000919	-0.025403	-7.043188	
0.75000	-0.346552	-1.155099	-0.736843
-0.000919	-0.614422	-7.088075	
1.00000	-0.346552	-1.032824	-0.736843
-0.000919	-1.235766	-7.885339	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.464568	1.398020	0.830581
0.000378	1.443671	3.847641	
0.25000	0.464568	1.406333	0.830581
0.000378	0.719060	3.529445	
0.50000	0.464568	1.423158	0.830581
0.000378	0.009822	3.446230	
0.75000	0.464568	1.440624	0.830581
0.000378	0.722985	3.494272	
1.00000	0.464568	1.455369	0.830581
0.000378	1.475307	3.620875	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.199902	-0.550093	-0.864145
-0.001063	-1.533471	-10.532595	
0.25000	-0.199902	-0.534122	-0.864145
-0.001063	-0.781203	-10.979355	
0.50000	-0.199902	-0.516346	-0.864145
-0.001063	-0.036575	-11.548219	
0.75000	-0.199902	-0.500666	-0.864145
-0.001063	-0.720315	-12.238524	
1.00000	-0.199902	-0.496732	-0.864145
-0.001063	-1.444814	-13.006364	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.743678	6.841662	0.755204
0.000708	1.311123	9.366070	
0.25000	0.743678	12.660826	0.755204
0.000708	0.657804	19.206887	
0.50000	0.743678	24.437802	0.755204
0.000708	0.025090	24.212951	
0.75000	0.743678	36.664598	0.755204
0.000708	0.661642	17.860849	
1.00000	0.743678	46.985616	0.755204
0.000708	1.346453	8.852693	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4106
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.222638	-46.012332	-0.797718
-0.001097	-1.433457	-37.470170	
0.25000	-0.222638	-34.833099	-0.797718
-0.001097	-0.739429	-26.329130	
0.50000	-0.222638	-22.389917	-0.797718
-0.001097	-0.057733	-24.864431	
0.75000	-0.222638	-10.993930	-0.797718
-0.001097	-0.665088	-23.594318	
1.00000	-0.222638	-8.659595	-0.797718
-0.001097	-1.323692	-35.891681	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.507144	12.382052	0.553047
0.001186	0.959719	16.924557	
0.25000	0.507144	36.378727	0.553047
0.001186	0.479020	57.734969	
0.50000	0.507144	62.221278	0.553047
0.001186	0.039812	70.615137	
0.75000	0.507144	88.768600	0.553047
0.001186	0.492926	54.056904	
1.00000	0.507144	107.680513	0.553047
0.001186	1.008800	17.325755	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.357608	-110.114716	-0.593976
-0.001231	-1.059536	-75.836407	
0.25000	-0.357608	-92.003845	-0.593976
-0.001231	-0.542508	-40.749541	
0.50000	-0.357608	-67.895507	-0.593976
-0.001231	-0.062657	-34.928292	
0.75000	-0.357608	-39.371913	-0.593976
-0.001231	-0.455292	-29.131670	
1.00000	-0.357608	-18.302617	-0.593976
-0.001231	-0.966738	-53.835967	

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.743678	13.592528	0.830581
0.001190	1.443671	14.791224	
0.25000	0.743678	28.297464	0.830581
0.001190	0.719060	40.884126	
0.50000	0.743678	58.057694	0.830581
0.001190	0.041942	54.141122	
0.75000	0.743678	88.954615	0.830581
0.001190	0.722985	37.999597	
1.00000	0.743678	115.035663	0.830581
0.001190	1.475307	14.870057	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.625525	-115.217428	-0.864145
-0.001102	-1.533471	-73.187567	
0.25000	-0.625525	-86.967683	-0.864145
-0.001102	-0.781203	-43.808905	
0.50000	-0.625525	-55.523960	-0.864145
-0.001102	-0.072001	-38.641830	
0.75000	-0.625525	-26.726482	-0.864145
-0.001102	-0.720315	-33.627866	
1.00000	-0.625525	-20.827654	-0.864145
-0.001102	-1.444814	-62.758588	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.743678	13.592528	0.830581
0.001190	1.443671	16.924557	
0.25000	0.743678	36.378727	0.830581
0.001190	0.719060	57.734969	
0.50000	0.743678	62.221278	0.830581
0.001190	0.041942	70.615137	
0.75000	0.743678	88.954615	0.830581
0.001190	0.722985	54.056904	
1.00000	0.743678	115.035663	0.830581
0.001190	1.475307	17.325755	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4107
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.625525	-115.217428	-0.864145
-0.001231	-1.533471	-75.836407	
0.25000	-0.625525	-92.003845	-0.864145
-0.001231	-0.781203	-43.808905	
0.50000	-0.625525	-67.895507	-0.864145
-0.001231	-0.072001	-38.641830	
0.75000	-0.625525	-39.371913	-0.864145
-0.001231	-0.720315	-33.627866	
1.00000	-0.625525	-20.827654	-0.864145
-0.001231	-1.444814	-62.758588	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.743678	13.592528	0.830581
0.001190	1.443671	16.924557	
0.25000	0.743678	36.378727	0.830581
0.001190	0.719060	57.734969	
0.50000	0.743678	62.221278	0.830581
0.001190	0.041942	70.615137	
0.75000	0.743678	88.954615	0.830581
0.001190	0.722985	54.056904	
1.00000	0.743678	115.035663	0.830581
0.001190	1.475307	17.325755	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.625525	-115.217428	-0.864145
-0.001231	-1.533471	-75.836407	
0.25000	-0.625525	-92.003845	-0.864145
-0.001231	-0.781203	-43.808905	
0.50000	-0.625525	-67.895507	-0.864145
-0.001231	-0.072001	-38.641830	
0.75000	-0.625525	-39.371913	-0.864145
-0.001231	-0.720315	-33.627866	
1.00000	-0.625525	-20.827654	-0.864145
-0.001231	-1.444814	-62.758588	

ELEM 396 ========== LENGTH = 3.480352

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.026172	0.200089	0.140247
0.000529	0.233768	0.897766	
0.25000	0.026172	0.222695	0.140247
0.000529	0.111757	0.906832	
0.50000	0.026172	0.253295	0.140247
0.000529	0.002788	0.894706	
0.75000	0.026172	0.279158	0.140247
0.000529	0.096285	0.881929	
1.00000	0.026172	0.298592	0.140247
0.000529	0.195617	0.870167	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.290824	-0.620048	-0.114194
-0.001008	-0.202161	-3.267966	
0.25000	-0.290824	-0.599866	-0.114194
-0.001008	-0.102976	-3.244304	
0.50000	-0.290824	-0.571387	-0.114194
-0.001008	-0.011531	-3.344880	
0.75000	-0.290824	-0.543666	-0.114194
-0.001008	-0.132483	-3.446162	
1.00000	-0.290824	-0.517918	-0.114194
-0.001008	-0.254366	-3.579685	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.376394	18.308083	0.229840
0.000702	0.355670	17.332819	
0.25000	0.376394	39.376884	0.229840
0.000702	0.178021	54.001325	
0.50000	0.376394	67.896213	0.229840
0.000702	0.040594	70.495450	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4108
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	0.376394	92.000476	0.229840
0.000702	0.161006	57.592621	
1.00000	0.376394	110.112940	0.229840
0.000702	0.301988	16.804250	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.313333	-107.582535	-0.178740
-0.001188	-0.337903	-53.820586	
0.25000	-0.313333	-88.772583	-0.178740
-0.001188	-0.182400	-28.980697	
0.50000	-0.313333	-62.230345	-0.178740
-0.001188	-0.062409	-34.772749	
0.75000	-0.313333	-36.394142	-0.178740
-0.001188	-0.247140	-40.589122	
1.00000	-0.313333	-12.396741	-0.178740
-0.001188	-0.447118	-75.643826	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.335087	12.486206	0.375327
0.001023	0.610486	12.780167	
0.25000	0.335087	26.829719	0.375327
0.001023	0.299127	37.703644	
0.50000	0.335087	46.245507	0.375327
0.001023	0.031046	48.889942	
0.75000	0.335087	62.655544	0.375327
0.001023	0.271873	40.028054	
1.00000	0.335087	74.986401	0.375327
0.001023	0.534459	12.223406	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.287135	-73.966346	-0.313150
-0.001053	-0.567514	-40.366365	
0.25000	-0.287135	-61.160644	-0.313150
-0.001053	-0.294991	-23.264850	
0.50000	-0.287135	-43.090848	-0.313150
-0.001053	-0.055661	-27.178182	
0.75000	-0.287135	-25.501716	-0.313150
-0.001053	-0.371114	-31.107473	
1.00000	-0.287135	-9.164429	-0.313150
-0.001053	-0.697693	-54.938897	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.329561	10.636754	0.504991
0.001228	0.836369	11.169457	
0.25000	0.329561	22.538818	0.504991
0.001228	0.409599	31.747685	
0.50000	0.329561	38.649791	0.504991
0.001228	0.027640	41.002229	
0.75000	0.329561	52.266630	0.504991
0.001228	0.379710	33.637833	
1.00000	0.329561	62.498618	0.504991
0.001228	0.751528	10.583398	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.419470	-61.556867	-0.436769
-0.001052	-0.778648	-34.699195	
0.25000	-0.419470	-50.930858	-0.436769
-0.001052	-0.398575	-20.430705	
0.50000	-0.419470	-35.936772	-0.436769
-0.001052	-0.053235	-23.723511	
0.75000	-0.419470	-21.341535	-0.436769
-0.001052	-0.483365	-27.035402	
1.00000	-0.419470	-7.785063	-0.436769
-0.001052	-0.922760	-46.869343	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.404323	15.291364	0.136491
0.000252	0.206104	13.971134	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4109
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	0.404323	32.924052	0.136491
0.000252	0.105991	44.677411	
0.50000	0.404323	56.792160	0.136491
0.000252	0.032439	58.496362	
0.75000	0.404323	76.965256	0.136491
0.000252	0.100733	47.710634	
1.00000	0.404323	92.123766	0.136491
0.000252	0.183430	13.826099	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.011388	-89.903482	-0.108887
-7.20E-05	-0.210466	-43.203225	
0.25000	-0.011388	-74.161247	-0.108887
-7.20E-05	-0.115746	-22.346353	
0.50000	-0.011388	-51.947787	-0.108887
-7.20E-05	-0.045612	-27.066376	
0.75000	-0.011388	-30.325213	-0.108887
-7.20E-05	-0.152621	-31.811749	
1.00000	-0.011388	-10.241551	-0.108887
-7.20E-05	-0.271377	-61.030043	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.376473	14.429915	0.352577
0.000712	0.574263	13.832724	
0.25000	0.376473	30.841878	0.352577
0.000712	0.284849	42.273639	
0.50000	0.376473	53.057579	0.352577
0.000712	0.032807	55.099396	
0.75000	0.376473	71.834075	0.352577
0.000712	0.266981	44.967540	
1.00000	0.376473	85.943141	0.352577
0.000712	0.519650	13.160145	

COMB DB-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.152785	-83.949437	-0.303190
-6.09E-05	-0.549449	-42.554270	
0.25000	-0.152785	-69.297049	-0.303190
-6.09E-05	-0.238586	-23.019934	
0.50000	-0.152785	-48.621443	-0.303190
-6.09E-05	-0.052730	-27.440605	
0.75000	-0.152785	-28.495817	-0.303190
-6.09E-05	-0.348260	-31.882378	
1.00000	-0.152785	-9.802562	-0.303190
-6.09E-05	-0.655037	-59.101722	

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.476991	10.365011	0.389375
0.001066	0.639135	10.857127	
0.25000	0.476991	21.982239	0.389375
0.001066	0.312645	30.859893	
0.50000	0.476991	37.707651	0.389375
0.001066	0.026483	39.901659	
0.75000	0.476991	50.998617	0.389375
0.001066	0.289316	32.716279	
1.00000	0.476991	60.985736	0.389375
0.001066	0.571684	10.630926	

COMB DB-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.274215	-60.510341	-0.333595
-0.000816	-0.599191	-34.033410	
0.25000	-0.274215	-50.139221	-0.333595
-0.000816	-0.309205	-20.032361	
0.50000	-0.274215	-35.503967	-0.333595
-0.000816	-0.049448	-23.129701	
0.75000	-0.274215	-21.258018	-0.333595
-0.000816	-0.378951	-26.244985	
1.00000	-0.274215	-8.025974	-0.333595
-0.000816	-0.717614	-45.489687	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4110
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.470344	8.772845	0.524791
0.001235	0.874431	9.481988	
0.25000	0.470344	18.504732	0.524791
0.001235	0.428118	26.288055	
0.50000	0.470344	31.678092	0.524791
0.001235	0.024062	33.834720	
0.75000	0.470344	42.812088	0.524791
0.001235	0.402893	27.804817	
1.00000	0.470344	51.178415	0.524791
0.001235	0.799057	9.292571	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.292658	-50.809328	-0.462907
-0.000901	-0.820257	-29.467526	
0.25000	-0.292658	-42.120825	-0.462907
-0.000901	-0.417711	-17.671751	
0.50000	-0.292658	-29.860704	-0.462907
-0.000901	-0.048013	-20.311066	
0.75000	-0.292658	-17.926706	-0.462907
-0.000901	-0.496847	-22.969105	
1.00000	-0.292658	-6.842079	-0.462907
-0.000901	-0.953356	-39.142796	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.144496	0.172116	0.309580
0.000529	0.528795	0.748085	
0.25000	0.144496	0.194722	0.309580
0.000529	0.259457	0.728533	
0.50000	0.144496	0.225322	0.309580
0.000529	0.003027	0.702973	
0.75000	0.144496	0.251185	0.309580
0.000529	0.251842	0.673174	
1.00000	0.144496	0.270619	0.309580
0.000529	0.501797	0.635155	

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.037270	-0.346819	-0.287292
-0.000370	-0.498100	-1.456920	
0.25000	-0.037270	-0.326636	-0.287292
-0.000370	-0.248129	-1.320051	
0.50000	-0.037270	-0.298157	-0.287292
-0.000370	-0.000997	-1.304734	
0.75000	-0.037270	-0.270436	-0.287292
-0.000370	-0.279315	-1.454344	
1.00000	-0.037270	-0.244688	-0.287292
-0.000370	-0.548660	-1.560008	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.189809	1.227284	0.520307
0.000984	0.886272	2.018022	
0.25000	0.189809	1.905465	0.520307
0.000984	0.434295	2.917708	
0.50000	0.189809	2.823469	0.520307
0.000984	0.006282	3.375696	
0.75000	0.189809	3.599357	0.520307
0.000984	0.417121	2.929790	
1.00000	0.189809	4.182376	0.520307
0.000984	0.832241	1.619697	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.321019	-3.961730	-0.477639
-0.000512	-0.830730	-4.597504	
0.25000	-0.321019	-3.356259	-0.477639
-0.000512	-0.415130	-3.607126	
0.50000	-0.321019	-2.501895	-0.477639
-0.000512	-0.019848	-3.895715	
0.75000	-0.321019	-1.670258	-0.477639
-0.000512	-0.471959	-4.194990	
1.00000	-0.321019	-0.897809	-0.477639
-0.000512	-0.924672	-5.449198	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4111
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.311145	1.331351	0.602343
0.001190	1.022178	2.715792	
0.25000	0.311145	2.409657	0.602343
0.001190	0.499266	4.413470	
0.50000	0.311145	3.869284	0.602343
0.001190	0.008764	5.164624	
0.75000	0.311145	5.102946	0.602343
0.001190	0.474388	4.463477	
1.00000	0.311145	6.029947	0.602343
0.001190	0.950101	2.506469	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.176752	-6.570982	-0.547547
-0.000424	-0.956507	-7.931419	
0.25000	-0.176752	-5.608284	-0.547547
-0.000424	-0.480038	-6.285426	
0.50000	-0.176752	-4.249845	-0.547547
-0.000424	-0.027383	-6.581263	
0.75000	-0.176752	-2.927542	-0.547547
-0.000424	-0.550233	-6.887121	
1.00000	-0.176752	-1.699349	-0.547547
-0.000424	-1.074330	-8.700875	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.559895	10.324516	0.560936
0.001202	0.938241	10.771290	
0.25000	0.559895	21.819672	0.560936
0.001202	0.459330	30.638292	
0.50000	0.559895	37.379842	0.560936
0.001202	0.027105	39.567271	
0.75000	0.559895	50.531149	0.560936
0.001202	0.437807	32.520864	
1.00000	0.559895	60.413325	0.560936
0.001202	0.864703	10.622338	

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.207898	-59.660255	-0.499678
-0.000742	-0.884506	-33.033808	
0.25000	-0.207898	-49.397528	-0.499678
-0.000742	-0.449923	-19.147549	
0.50000	-0.207898	-34.916061	-0.499678
-0.000742	-0.051052	-22.254233	
0.75000	-0.207898	-20.819806	-0.499678
-0.000742	-0.530494	-25.383799	
1.00000	-0.207898	-7.726803	-0.499678
-0.000742	-1.018562	-44.476333	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.030373	0.268577	0.180744
0.000506	0.299475	1.744499	
0.25000	0.030373	0.272277	0.180744
0.000506	0.141448	1.730879	
0.50000	0.030373	0.290364	0.180744
0.000506	0.004591	1.718547	
0.75000	0.030373	0.310110	0.180744
0.000506	0.116328	1.731397	
1.00000	0.030373	0.327853	0.180744
0.000506	0.236961	1.775430	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.627619	-0.594441	-0.138906
-0.001036	-0.246949	-7.794209	
0.25000	-0.627619	-0.578061	-0.138906
-0.001036	-0.125867	-7.618803	
0.50000	-0.627619	-0.559659	-0.138906
-0.001036	-0.022430	-7.475628	
0.75000	-0.627619	-0.539965	-0.138906
-0.001036	-0.171843	-7.362253	
1.00000	-0.627619	-0.530727	-0.138906
-0.001036	-0.329102	-7.300579	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4112
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.564974	20.840515	0.313735
0.000617	0.495517	14.873826	
0.25000	0.564974	26.730243	0.313735
0.000617	0.245345	37.976258	
0.50000	0.564974	55.524878	0.313735
0.000617	0.042817	54.079589	
0.75000	0.564974	86.960798	0.313735
0.000617	0.217569	40.718291	
1.00000	0.564974	115.208280	0.313735
0.000617	0.410880	14.727423	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.598174	-115.043429	-0.239132
-0.001193	-0.442990	-62.765762	
0.25000	-0.598174	-88.966895	-0.239132
-0.001193	-0.235116	-33.631849	
0.50000	-0.598174	-58.073590	-0.239132
-0.001193	-0.072970	-38.620322	
0.75000	-0.598174	-28.318288	-0.239132
-0.001193	-0.328279	-43.763670	
1.00000	-0.598174	-13.611396	-0.239132
-0.001193	-0.600685	-73.086619	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.533355	14.869064	0.550082
0.000890	0.903768	12.390364	
0.25000	0.533355	19.051209	0.550082
0.000890	0.440449	26.768704	
0.50000	0.533355	39.496847	0.550082
0.000890	0.035341	40.182148	
0.75000	0.533355	61.817930	0.550082
0.000890	0.401781	30.739490	
1.00000	0.533355	81.875061	0.550082
0.000890	0.789215	12.397242	

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.558210	-82.474727	-0.457437
-0.001065	-0.816200	-53.261465	
0.25000	-0.558210	-63.959078	-0.457437
-0.001065	-0.420407	-32.074929	
0.50000	-0.558210	-42.023279	-0.457437
-0.001065	-0.073358	-35.131863	
0.75000	-0.558210	-20.895519	-0.457437
-0.001065	-0.533958	-38.350823	
1.00000	-0.558210	-10.452887	-0.457437
-0.001065	-1.012585	-58.782255	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.507833	12.602971	0.729151
0.001086	1.214782	11.273827	
0.25000	0.507833	16.074217	0.729151
0.001086	0.592706	24.768379	
0.50000	0.507833	33.044423	0.729151
0.001086	0.031990	34.194537	
0.75000	0.507833	51.571277	0.729151
0.001086	0.552827	26.333823	
1.00000	0.507833	68.219015	0.729151
0.001086	1.092171	11.103754	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.676635	-68.662862	-0.629873
-0.001031	-1.112781	-46.774013	
0.25000	-0.676635	-53.294579	-0.629873
-0.001031	-0.564927	-29.128046	
0.50000	-0.676635	-35.087516	-0.629873
-0.001031	-0.070459	-31.633856	
0.75000	-0.676635	-17.551139	-0.629873
-0.001031	-0.688849	-34.295553	
1.00000	-0.676635	-8.883588	-0.629873
-0.001031	-1.323711	-51.270435	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.633772	14.573599	0.203952
0.000202	0.337480	9.806695	
0.25000	0.633772	18.702468	0.203952
0.000202	0.164311	25.979040	
0.50000	0.633772	38.887652	0.203952
0.000202	0.028385	37.282745	
0.75000	0.633772	60.924390	0.203952
0.000202	0.156648	28.156481	
1.00000	0.633772	80.726013	0.203952
0.000202	0.296018	10.033253	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.012874	-80.847121	-0.171338
-6.74E-05	-0.314672	-41.694160	
0.25000	-0.012874	-62.567340	-0.171338
-6.74E-05	-0.165805	-21.068477	
0.50000	-0.012874	-40.910978	-0.171338
-6.74E-05	-0.041960	-24.377267	
0.75000	-0.012874	-20.052152	-0.171338
-6.74E-05	-0.209751	-27.819824	
1.00000	-0.012874	-9.742756	-0.171338
-6.74E-05	-0.387041	-48.211021	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.575352	14.070657	0.530330
0.000600	0.880244	10.796771	
0.25000	0.575352	18.010841	0.530330
0.000600	0.433638	26.146658	
0.50000	0.575352	37.273584	0.530330
0.000600	0.033003	36.817197	
0.75000	0.575352	58.303266	0.530330
0.000600	0.411469	27.965148	
1.00000	0.575352	77.199980	0.530330
0.000600	0.807278	10.634676	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.182424	-77.437261	-0.465485
-5.19E-05	-0.826401	-45.148807	
0.25000	-0.182424	-59.992847	-0.465485
-5.19E-05	-0.421528	-25.262306	
0.50000	-0.182424	-39.326156	-0.465485
-5.19E-05	-0.055427	-28.229323	
0.75000	-0.182424	-19.420757	-0.465485
-5.19E-05	-0.505276	-31.348585	
1.00000	-0.182424	-9.582290	-0.465485
-5.19E-05	-0.966964	-50.695333	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.654153	9.350988	0.572558
0.000949	0.949326	9.127566	
0.25000	0.654153	11.911553	0.572558
0.000949	0.466187	19.040793	
0.50000	0.654153	24.429623	0.572558
0.000949	0.025797	25.993271	
0.75000	0.654153	38.095955	0.572558
0.000949	0.429832	20.487879	
1.00000	0.654153	50.376157	0.572558
0.000949	0.851094	9.728733	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.363292	-51.594419	-0.491207
-0.000802	-0.867763	-39.749188	
0.25000	-0.363292	-40.258006	-0.491207
-0.000802	-0.440990	-26.172279	
0.50000	-0.363292	-26.827568	-0.491207
-0.000802	-0.061194	-27.531876	
0.75000	-0.363292	-13.691862	-0.491207
-0.000802	-0.561599	-29.108195	
1.00000	-0.363292	-7.498244	-0.491207
-0.000802	-1.044054	-41.293243	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.642294	7.986558	0.766260
0.001123	1.284678	8.526642	
0.25000	0.642294	10.137011	0.766260
0.001123	0.625203	16.827342	
0.50000	0.642294	20.650128	0.766260
0.001123	0.024622	22.640591	
0.75000	0.642294	32.127595	0.766260
0.001123	0.595026	17.980158	
1.00000	0.642294	42.440942	0.766260
0.001123	1.180666	8.911489	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.380215	-43.480740	-0.678229
-0.000860	-1.188193	-35.443886	
0.25000	-0.380215	-33.960021	-0.678229
-0.000860	-0.598681	-23.990645	
0.50000	-0.380215	-22.680665	-0.678229
-0.000860	-0.059626	-25.089933	
0.75000	-0.380215	-11.816803	-0.678229
-0.000860	-0.714076	-26.364970	
1.00000	-0.380215	-6.447217	-0.678229
-0.000860	-1.381765	-36.544206	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.236784	0.212144	0.449133
0.000508	0.768054	1.383422	
0.25000	0.236784	0.215844	0.449133
0.000508	0.376090	1.344028	
0.50000	0.236784	0.233931	0.449133
0.000508	0.005417	1.310523	
0.75000	0.236784	0.253677	0.449133
0.000508	0.371657	1.276888	
1.00000	0.236784	0.271420	0.449133
0.000508	0.738038	1.254672	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.046548	-0.378340	-0.421071
-0.000335	-0.727505	-3.168336	
0.25000	-0.046548	-0.361961	-0.421071
-0.000335	-0.361101	-3.010871	
0.50000	-0.046548	-0.342555	-0.421071
-0.000335	-0.012754	-2.864749	
0.75000	-0.046548	-0.323865	-0.421071
-0.000335	-0.402833	-2.771893	
1.00000	-0.046548	-0.314627	-0.421071
-0.000335	-0.794219	-2.690230	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.285247	1.036340	0.757576
0.000925	1.292461	2.937538	
0.25000	0.285247	1.158430	0.757576
0.000925	0.632070	3.174278	
0.50000	0.285247	1.755304	0.757576
0.000925	0.008956	3.383987	
0.75000	0.285247	2.406928	0.757576
0.000925	0.615623	3.049109	
1.00000	0.285247	2.992460	0.757576
0.000925	1.224868	2.490984	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.378029	-2.986278	-0.700422
-0.000447	-1.213328	-7.896756	
0.25000	-0.378029	-2.445746	-0.700422
-0.000447	-0.603754	-7.049005	
0.50000	-0.378029	-1.805370	-0.700422
-0.000447	-0.026138	-6.971940	
0.75000	-0.378029	-1.188583	-0.700422
-0.000447	-0.682543	-6.955180	
1.00000	-0.378029	-0.883729	-0.700422
-0.000447	-1.343028	-7.518280	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.514470	0.501339	0.890143
0.001068	1.514660	3.632075	
0.25000	0.514470	0.504669	0.890143
0.001068	0.737952	3.452816	
0.50000	0.514470	0.520947	0.890143
0.001068	0.010913	3.352681	
0.75000	0.514470	0.538719	0.890143
0.001068	0.712511	3.417531	
1.00000	0.514470	0.554688	0.890143
0.001068	1.423176	3.707099	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.228373	-1.485749	-0.816387
-0.000376	-1.418146	-13.014712	
0.25000	-0.228373	-1.471008	-0.816387
-0.000376	-0.707535	-12.202707	
0.50000	-0.228373	-1.453543	-0.816387
-0.000376	-0.037116	-11.466279	
0.75000	-0.228373	-1.436721	-0.816387
-0.000376	-0.805078	-10.846554	
1.00000	-0.228373	-1.428407	-0.816387
-0.000376	-1.580922	-10.340450	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.804758	8.667433	0.824998
0.001102	1.387538	8.862831	
0.25000	0.804758	10.998246	0.824998
0.001102	0.677515	17.817205	
0.50000	0.804758	22.393108	0.824998
0.001102	0.026249	24.112439	
0.75000	0.804758	34.833202	0.824998
0.001102	0.652599	19.099750	
1.00000	0.804758	46.011540	0.824998
0.001102	1.292051	9.228586	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.270721	-47.016451	-0.741434
-0.000697	-1.297158	-35.899443	
0.25000	-0.270721	-36.697220	-0.741434
-0.000697	-0.652231	-23.536407	
0.50000	-0.270721	-24.471854	-0.741434
-0.000697	-0.058367	-24.755865	
0.75000	-0.270721	-12.696829	-0.741434
-0.000697	-0.765045	-26.166456	
1.00000	-0.270721	-6.876890	-0.741434
-0.000697	-1.483666	-37.234553	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.559895	18.308083	0.602343
0.001235	1.022178	17.332819	
0.25000	0.559895	39.376884	0.602343
0.001235	0.499266	54.001325	
0.50000	0.559895	67.896213	0.602343
0.001235	0.040594	70.495450	
0.75000	0.559895	92.000476	0.602343
0.001235	0.474388	57.592621	
1.00000	0.559895	110.112940	0.602343
0.001235	0.950101	16.804250	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.419470	-107.582535	-0.547547
-0.001188	-0.956507	-53.820586	
0.25000	-0.419470	-88.772583	-0.547547
-0.001188	-0.480038	-28.980697	
0.50000	-0.419470	-62.230345	-0.547547
-0.001188	-0.062409	-34.772749	
0.75000	-0.419470	-36.394142	-0.547547
-0.001188	-0.550233	-40.589122	
1.00000	-0.419470	-12.396741	-0.547547
-0.001188	-1.074330	-75.643826	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.804758	20.840315	0.890143
0.001123	1.514660	14.873826	
0.25000	0.804758	26.730243	0.890143
0.001123	0.737952	37.976258	
0.50000	0.804758	55.524878	0.890143
0.001123	0.042817	54.079589	
0.75000	0.804758	86.960798	0.890143
0.001123	0.712511	40.818291	
1.00000	0.804758	115.208280	0.890143
0.001123	1.423176	14.727423	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.676635	-115.043429	-0.816387
-0.001193	-1.418146	-62.765762	
0.25000	-0.676635	-88.966895	-0.816387
-0.001193	-0.707535	-33.631849	
0.50000	-0.676635	-58.073590	-0.816387
-0.001193	-0.073358	-38.620522	
0.75000	-0.676635	-28.318288	-0.816387
-0.001193	-0.805078	-43.763670	
1.00000	-0.676635	-13.611396	-0.816387
-0.001193	-1.580922	-73.086619	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.804758	20.840315	0.890143
0.001235	1.514660	17.332819	
0.25000	0.804758	39.376884	0.890143
0.001235	0.737952	54.001325	
0.50000	0.804758	67.896213	0.890143
0.001235	0.042817	70.495450	
0.75000	0.804758	92.000476	0.890143
0.001235	0.712511	57.592621	
1.00000	0.804758	115.208280	0.890143
0.001235	1.423176	16.804250	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.676635	-115.043429	-0.816387
-0.001193	-1.418146	-62.765762	
0.25000	-0.676635	-88.966895	-0.816387
-0.001193	-0.707535	-33.631849	
0.50000	-0.676635	-62.230345	-0.816387
-0.001193	-0.073358	-38.620522	
0.75000	-0.676635	-36.394142	-0.816387
-0.001193	-0.805078	-43.763670	
1.00000	-0.676635	-13.611396	-0.816387
-0.001193	-1.580922	-75.643826	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.804758	20.840315	0.890143
0.001235	1.514660	17.332819	
0.25000	0.804758	39.376884	0.890143
0.001235	0.737952	54.001325	
0.50000	0.804758	67.896213	0.890143
0.001235	0.042817	70.495450	
0.75000	0.804758	92.000476	0.890143
0.001235	0.712511	57.592621	
1.00000	0.804758	115.208280	0.890143
0.001235	1.423176	16.804250	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.676635	-115.043429	-0.816387
-0.001193	-1.418146	-62.765762	
0.25000	-0.676635	-88.966895	-0.816387
-0.001193	-0.707535	-33.631849	
0.50000	-0.676635	-62.230345	-0.816387
-0.001193	-0.073358	-38.620522	
0.75000	-0.676635	-36.394142	-0.816387
-0.001193	-0.805078	-43.763670	
1.00000	-0.676635	-13.611396	-0.816387
-0.001193	-1.580922	-75.643826	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 397 ========== LENGTH = 4.973376

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.050676	0.095924	0.088209
8.53E-06	0.209190	0.867491	
0.25000	0.050676	0.117953	0.088209
8.53E-06	0.099563	0.906635	
0.50000	0.050676	0.149634	0.088209
8.53E-06	0.005237	1.338208	
0.75000	0.050676	0.180276	0.088209
8.53E-06	0.078112	1.997567	
1.00000	0.050676	0.211451	0.088209
8.53E-06	0.151173	2.689288	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.235138	-0.870212	-0.058763
-0.001200	-0.141103	-3.596939	
0.25000	-0.235138	-0.833820	-0.058763
-0.001200	-0.068124	-3.430442	
0.50000	-0.235138	-0.802226	-0.058763
-0.001200	-0.011256	-3.326120	
0.75000	-0.235138	-0.773600	-0.058763
-0.001200	-0.119840	-3.223659	
1.00000	-0.235138	-0.748497	-0.058763
-0.001200	-0.229506	-3.167763	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.239225	11.671901	0.146485
8.73E-05	0.340818	16.779842	
0.25000	0.239225	32.202447	0.146485
8.73E-05	0.170502	64.220243	
0.50000	0.239225	61.728874	0.146485
8.73E-05	0.048440	93.465589	
0.75000	0.239225	90.287288	0.146485
8.73E-05	0.137511	74.042699	
1.00000	0.239225	119.342989	0.146485
8.73E-05	0.247263	17.222014	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.288318	-121.163567	-0.091247
-0.001458	-0.229923	-75.688909	
0.25000	-0.288318	-87.246533	-0.091247
-0.001458	-0.120143	-22.549591	
0.50000	-0.288318	-61.528439	-0.091247
-0.001458	-0.050352	-27.355267	
0.75000	-0.288318	-31.121341	-0.091247
-0.001458	-0.220991	-33.881581	
1.00000	-0.288318	-7.725785	-0.091247
-0.001458	-0.403093	-83.795691	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.247018	7.981131	0.223608
0.000534	0.533519	12.186262	
0.25000	0.247018	21.958202	0.223608
0.000534	0.263719	45.268648	
0.50000	0.247018	42.059617	0.223608
0.000534	0.037062	65.279149	
0.75000	0.247018	61.502014	0.223608
0.000534	0.199568	52.842379	
1.00000	0.247018	81.282960	0.223608
0.000534	0.383305	15.056078	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.320783	-83.326388	-0.149817
-0.001293	-0.377646	-54.947867	
0.25000	-0.320783	-60.235876	-0.149817
-0.001293	-0.193852	-18.729421	
0.50000	-0.320783	-42.727152	-0.149817
-0.001293	-0.043187	-21.959559	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.320783	-22.026182	-0.149817
-0.001293	-0.311481	-26.361243	
1.00000	-0.320783	-6.098628	-0.149817
-0.001293	-0.589361	-60.301625	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.252585	6.666255	0.291357
0.000885	0.702404	10.548113	
0.25000	0.252585	18.264251	0.291357
0.000885	0.346993	36.004793	
0.50000	0.252585	34.944148	0.291357
0.000885	0.032222	54.611991	
0.75000	0.252585	51.077200	0.291357
0.000885	0.266758	44.365661	
1.00000	0.252585	67.491177	0.291357
0.000885	0.522526	13.323055	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.363239	-69.424147	-0.207415
-0.001077	-0.522195	-46.847707	
0.25000	-0.363239	-50.263935	-0.207415
-0.001077	-0.266367	-16.833932	
0.50000	-0.363239	-35.735419	-0.207415
-0.001077	-0.039914	-19.554539	
0.75000	-0.363239	-18.558019	-0.207415
-0.001077	-0.393538	-23.247793	
1.00000	-0.363239	-5.341538	-0.207415
-0.001077	-0.755606	-51.452277	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209742	9.782003	0.081485
0.000260	0.191047	13.803360	
0.25000	0.209742	26.964219	0.081485
0.000260	0.099633	54.070375	
0.50000	0.209742	51.675178	0.081485
0.000260	0.036765	77.648130	
0.75000	0.209742	75.575996	0.081485
0.000260	0.074201	60.981289	
1.00000	0.209742	99.892899	0.081485
0.000260	0.132714	12.996611	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.027524	-101.019597	-0.049570
-5.43E-05	-0.133493	-61.043328	
0.25000	-0.027524	-72.634097	-0.049570
-5.43E-05	-0.074923	-16.665271	
0.50000	-0.027524	-51.110370	-0.049570
-5.43E-05	-0.033937	-20.782080	
0.75000	-0.027524	-25.662370	-0.049570
-5.43E-05	-0.125993	-26.338919	
1.00000	-0.027524	-6.082398	-0.049570
-5.43E-05	-0.227197	-68.207359	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.222022	9.055183	0.199700
0.000813	0.481628	13.119851	
0.25000	0.222022	25.047861	0.199700
0.000813	0.242611	50.803021	
0.50000	0.222022	48.048061	0.199700
0.000813	0.035066	73.022622	
0.75000	0.222022	70.294207	0.199700
0.000813	0.179109	58.079037	
1.00000	0.222022	92.927725	0.199700
0.000813	0.347948	14.074708	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.155545	-94.558650	-0.138142
-5.06E-05	-0.357277	-59.080725	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.155545	-68.138299	-0.138142
-5.06E-05	-0.188355	-17.774043	
0.50000	-0.155545	-48.104677	-0.138142
-5.06E-05	-0.037425	-21.605367	
0.75000	-0.155545	-24.418461	-0.138142
-5.06E-05	-0.275622	-26.777866	
1.00000	-0.155545	-6.194026	-0.138142
-5.06E-05	-0.523745	-65.749295	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.269861	6.586048	0.227288
0.000738	0.545832	10.600041	
0.25000	0.269861	17.906485	0.227288
0.000738	0.269848	37.507933	
0.50000	0.269861	34.187205	0.227288
0.000738	0.031843	53.705471	
0.75000	0.269861	49.934167	0.227288
0.000738	0.205858	43.789437	
1.00000	0.269861	65.955331	0.227288
0.000738	0.400359	13.595113	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283452	-67.920456	-0.158104
-0.000904	-0.398840	-45.475000	
0.25000	-0.283452	-49.218779	-0.158104
-0.000904	-0.204286	-16.160600	
0.50000	-0.283452	-35.037954	-0.158104
-0.000904	-0.037218	-18.797313	
0.75000	-0.283452	-18.271637	-0.158104
-0.000904	-0.310833	-22.383549	
1.00000	-0.283452	-5.371448	-0.158104
-0.000904	-0.593280	-49.894649	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.293724	5.572128	0.298772
0.001023	0.723272	9.261807	
0.25000	0.293724	15.055390	0.298772
0.001023	0.357386	31.811680	
0.50000	0.293724	28.693938	0.298772
0.001023	0.028080	45.391213	
0.75000	0.293724	41.885051	0.298772
0.001023	0.278567	37.077678	
1.00000	0.293724	55.306466	0.298772
0.001023	0.549447	11.911378	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.297057	-57.048656	-0.219243
-0.000753	-0.551732	-39.100990	
0.25000	-0.297057	-41.382043	-0.219243
-0.000753	-0.280846	-14.614162	
0.50000	-0.297057	-29.502602	-0.219243
-0.000753	-0.035008	-16.893053	
0.75000	-0.297057	-15.457263	-0.219243
-0.000753	-0.398587	-19.967532	
1.00000	-0.297057	-4.650624	-0.219243
-0.000753	-0.769942	-43.084321	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.132606	0.131116	0.168969
0.000616	0.414815	0.627154	
0.25000	0.132606	0.153144	0.168969
0.000616	0.204769	0.690742	
0.50000	0.132606	0.184825	0.168969
0.000616	0.002346	0.733809	
0.75000	0.132606	0.215467	0.168969
0.000616	0.167229	0.739983	
1.00000	0.132606	0.246643	0.168969
0.000616	0.336887	0.840836	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4120

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.082548	-0.360119	-0.136456
-4.79E-07	-0.341786	-1.515122	
0.25000	-0.082548	-0.323727	-0.136456
-4.79E-07	-0.172130	-1.585581	
0.50000	-0.082548	-0.296133	-0.136456
-4.79E-07	-0.005941	-1.719695	
0.75000	-0.082548	-0.263807	-0.136456
-4.79E-07	-0.215536	-1.857844	
1.00000	-0.082548	-0.238405	-0.136456
-4.79E-07	-0.425618	-2.042948	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.168384	0.533786	0.284476
0.001145	0.698007	1.606563	
0.25000	0.168384	1.194641	0.284476
0.001145	0.344725	3.171010	
0.50000	0.168384	2.145062	0.284476
0.001145	0.095231	4.096527	
0.75000	0.168384	3.064325	0.284476
0.001145	0.274928	3.729006	
1.00000	0.168384	3.999594	0.284476
0.001145	0.554564	2.554439	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.223894	-4.546926	-0.224999
-2.48E-06	-0.565212	-5.373527	
0.25000	-0.223894	-3.455176	-0.224999
-2.48E-06	-0.285591	-3.812075	
0.50000	-0.223894	-2.627341	-0.224999
-2.48E-06	-0.011938	-4.118377	
0.75000	-0.223894	-1.648571	-0.224999
-2.48E-06	-0.363811	-4.482794	
1.00000	-0.223894	-0.895495	-0.224999
-2.48E-06	-0.717373	-6.245244	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.252514	0.790289	0.330788
0.001374	0.810642	2.473914	
0.25000	0.252514	1.841047	0.330788
0.001374	0.400193	5.202920	
0.50000	0.252514	3.352218	0.330788
0.001374	0.008346	7.126625	
0.75000	0.252514	4.813845	0.330788
0.001374	0.307468	6.866919	
1.00000	0.252514	6.300923	0.330788
0.001374	0.622782	5.098342	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.207061	-7.341764	-0.253804
-3.67E-06	-0.640653	-8.616025	
0.25000	-0.207061	-5.605881	-0.253804
-3.67E-06	-0.325254	-6.018172	
0.50000	-0.207061	-4.289622	-0.253804
-3.67E-06	-0.016597	-6.387683	
0.75000	-0.207061	-2.733379	-0.253804
-3.67E-06	-0.424637	-6.847155	
1.00000	-0.207061	-1.535989	-0.253804
-3.67E-06	-0.835722	-9.528815	

COMB DB-G4-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.349518	6.591769	0.316248
0.001137	0.767125	10.586504	
0.25000	0.349518	17.793252	0.316248
0.001137	0.380455	37.054130	
0.50000	0.349518	33.902896	0.316248
0.001137	0.030702	52.853812	
0.75000	0.349518	49.484392	0.316248
0.001137	0.299616	42.695918	
1.00000	0.349518	65.337207	0.316248
0.001137	0.591291	12.487867	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4121

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.255279	-66.954964	-0.236231
-0.000497	-0.596394	-44.424424	
0.25000	-0.255279	-48.449801	-0.236231
-0.000497	-0.304674	-15.561700	
0.50000	-0.255279	-34.417987	-0.236231
-0.000497	-0.036523	-18.315234	
0.75000	-0.255279	-17.827848	-0.236231
-0.000497	-0.421346	-22.009065	
1.00000	-0.255279	-5.063213	-0.236231
-0.000497	-0.814386	-49.376572	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.067754	0.124567	0.117143
6.85E-06	0.275273	1.782050	
0.25000	0.067754	0.131448	0.117143
6.85E-06	0.129149	1.840292	
0.50000	0.067754	0.150737	0.117143
6.85E-06	0.007293	2.071832	
0.75000	0.067754	0.172295	0.117143
6.85E-06	0.090161	2.415056	
1.00000	0.067754	0.191389	0.117143
6.85E-06	0.175756	2.851107	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.447616	-0.993591	-0.068872
-0.001271	-0.167156	-7.313094	
0.25000	-0.447616	-0.975950	-0.068872
-0.001271	-0.081289	-6.452179	
0.50000	-0.447616	-0.954719	-0.068872
-0.001271	-0.018776	-5.730507	
0.75000	-0.447616	-0.934732	-0.068872
-0.001271	-0.161155	-5.109542	
1.00000	-0.447616	-0.923443	-0.068872
-0.001271	-0.306909	-4.597813	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.405188	12.938720	0.198704
5.89E-05	0.461210	14.738867	
0.25000	0.405188	23.893641	0.198704
5.89E-05	0.233263	49.720856	
0.50000	0.405188	54.602356	0.198704
5.89E-05	0.054148	75.252921	
0.75000	0.405188	88.922860	0.198704
5.89E-05	0.176406	55.313215	
1.00000	0.405188	119.319440	0.198704
5.89E-05	0.316746	15.051549	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.484784	-120.292345	-0.117191
-0.001478	-0.302072	-73.134974	
0.25000	-0.484784	-92.207717	-0.117191
-0.001478	-0.156682	-25.059216	
0.50000	-0.484784	-58.408565	-0.117191
-0.001478	-0.058843	-29.104414	
0.75000	-0.484784	-26.588775	-0.117191
-0.001478	-0.291326	-34.367625	
1.00000	-0.484784	-8.616832	-0.117191
-0.001478	-0.538199	-77.774202	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.401660	9.257624	0.324539
0.000437	0.774405	12.401518	
0.25000	0.401660	17.036169	0.324539
0.000437	0.383465	37.336120	
0.50000	0.401660	38.840899	0.324539
0.000437	0.044975	55.722585	
0.75000	0.401660	63.210182	0.324539
0.000437	0.288512	41.977075	
1.00000	0.401660	84.793281	0.324539
0.000437	0.556292	13.928517	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4122

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.492181	-86.322880	-0.218103
-0.001332	-0.553749	-58.829480	
0.25000	-0.492181	-66.381383	-0.218103
-0.001332	-0.282838	-23.937395	
0.50000	-0.492181	-42.382286	-0.218103
-0.001332	-0.057533	-26.177046	
0.75000	-0.492181	-19.788636	-0.218103
-0.001332	-0.442255	-29.379363	
1.00000	-0.492181	-7.027654	-0.218103
-0.001332	-0.846347	-59.758578	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.389560	7.764409	0.417202
0.000787	1.005692	11.107546	
0.25000	0.389560	14.227255	0.417202
0.000787	0.496948	31.768493	
0.50000	0.389560	32.318998	0.417202
0.000787	0.039556	47.048424	
0.75000	0.389560	52.545891	0.417202
0.000787	0.387515	35.771886	
1.00000	0.389560	70.460207	0.417202
0.000787	0.759662	12.697717	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.550812	-71.971314	-0.301526
-0.001110	-0.760868	-51.312785	
0.25000	-0.550812	-55.419554	-0.301526
-0.001110	-0.386314	-22.075108	
0.50000	-0.550812	-35.499922	-0.301526
-0.001110	-0.055076	-23.734811	
0.75000	-0.550812	-16.746832	-0.301526
-0.001110	-0.554472	-26.267102	
1.00000	-0.550812	-6.155014	-0.301526
-0.001110	-1.074373	-51.395129	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.375507	9.130834	0.114506
0.000204	0.272755	10.028034	
0.25000	0.375507	16.810288	0.114506
0.000204	0.143884	34.402969	
0.50000	0.375507	38.337251	0.114506
0.000204	0.035094	52.154369	
0.75000	0.375507	62.396698	0.114506
0.000204	0.111418	38.113189	
1.00000	0.375507	83.704253	0.114506
0.000204	0.205178	9.796564	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.037019	-84.051617	-0.078143
-4.94E-05	-0.208547	-48.241117	
0.25000	-0.037019	-64.364152	-0.078143
-4.94E-05	-0.111742	-14.891193	
0.50000	-0.037019	-40.670777	-0.078143
-4.94E-05	-0.032378	-18.060074	
0.75000	-0.037019	-18.364943	-0.078143
-4.94E-05	-0.162357	-22.031996	
1.00000	-0.037019	-5.766521	-0.078143
-4.94E-05	-0.304455	-52.716215	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.364067	8.666636	0.292304
0.000704	0.708991	10.625297	
0.25000	0.364067	15.995147	0.292304
0.000704	0.357976	34.029317	
0.50000	0.364067	36.538352	0.292304
0.000704	0.037037	51.193734	
0.75000	0.364067	59.497734	0.292304
0.000704	0.278110	38.069850	
1.00000	0.364067	79.832130	0.292304
0.000704	0.544032	11.398197	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4123

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.186238	-80.780633	-0.216475
-4.72E-05	-0.556052	-50.727612	
0.25000	-0.186238	-61.992864	-0.216475
-4.72E-05	-0.287574	-18.356523	
0.50000	-0.186238	-39.382250	-0.216475
-4.72E-05	-0.042009	-20.933830	
0.75000	-0.186238	-18.095769	-0.216475
-4.72E-05	-0.386880	-24.392042	
1.00000	-0.186238	-6.073082	-0.216475
-4.72E-05	-0.750716	-53.399555	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.458554	5.894267	0.332952
0.000640	0.800227	9.725859	
0.25000	0.458554	10.656768	0.332952
0.000640	0.393436	24.771106	
0.50000	0.458554	24.006957	0.332952
0.000640	0.033327	36.019129	
0.75000	0.458554	38.927322	0.332952
0.000640	0.303691	28.022468	
1.00000	0.458554	52.141815	0.332952
0.000640	0.595539	11.397086	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.377953	-53.689211	-0.236416
-0.000899	-0.595400	-41.334383	
0.25000	-0.377953	-41.479807	-0.236416
-0.000899	-0.301882	-19.446982	
0.50000	-0.377953	-26.786093	-0.236416
-0.000899	-0.047381	-20.435376	
0.75000	-0.377953	-12.952879	-0.236416
-0.000899	-0.443974	-21.944681	
1.00000	-0.377953	-5.139825	-0.236416
-0.000899	-0.859063	-40.310207	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.471097	5.052816	0.433418
0.000937	1.049892	8.909286	
0.25000	0.471097	9.051732	0.433418
0.000937	0.516669	21.538579	
0.50000	0.471097	20.263692	0.433418
0.000937	0.030152	31.018667	
0.75000	0.471097	32.794341	0.433418
0.000937	0.401743	24.351380	
1.00000	0.471097	43.892338	0.433418
0.000937	0.820681	10.511046	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.393892	-45.296807	-0.327887
-0.000749	-0.822776	-36.584593	
0.25000	-0.393892	-35.042919	-0.327887
-0.000749	-0.415399	-18.087870	
0.50000	-0.393892	-22.702619	-0.327887
-0.000749	-0.046048	-18.845240	
0.75000	-0.393892	-11.084998	-0.327887
-0.000749	-0.567489	-20.073341	
1.00000	-0.393892	-4.523320	-0.327887
-0.000749	-1.107827	-35.487777	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.204610	0.217396	0.241484
0.000604	0.593462	1.246329	
0.25000	0.204610	0.224277	0.241484
0.000604	0.292383	1.256572	
0.50000	0.204610	0.243617	0.241484
0.000604	0.003621	1.297881	
0.75000	0.204610	0.265125	0.241484
0.000604	0.254985	1.356252	
1.00000	0.204610	0.284218	0.241484
0.000604	0.511193	1.477232	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4124

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.095974	-0.378457	-0.205998
-2.99E-07	-0.513328	-2.690784	
0.25000	-0.095974	-0.360816	-0.205998
-2.99E-07	-0.257407	-2.569748	
0.50000	-0.095974	-0.339585	-0.205998
-2.99E-07	-0.009247	-2.524467	
0.75000	-0.095974	-0.319598	-0.205998
-2.99E-07	-0.305395	-2.558504	
1.00000	-0.095974	-0.308309	-0.205998
-2.99E-07	-0.606514	-2.590766	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.243182	0.553416	0.409359
0.001131	1.005181	2.480001	
0.25000	0.243182	0.780497	0.409359
0.001131	0.495312	3.170229	
0.50000	0.243182	1.417047	0.409359
0.001131	0.007140	3.763364	
0.75000	0.243182	2.125964	0.409359
0.001131	0.417767	3.652617	
1.00000	0.243182	2.758544	0.409359
0.001131	0.838999	3.277212	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.297757	-3.269425	-0.338850
-1.71E-06	-0.846740	-7.516277	
0.25000	-0.297757	-2.687269	-0.338850
-1.71E-06	-0.425658	-6.020898	
0.50000	-0.297757	-1.986658	-0.338850
-1.71E-06	-0.019005	-5.756134	
0.75000	-0.297757	-1.327077	-0.338850
-1.71E-06	-0.519176	-5.666914	
1.00000	-0.297757	-0.954543	-0.338850
-1.71E-06	-1.029548	-6.449261	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.386982	0.366949	0.482188
0.001272	1.183617	3.691233	
0.25000	0.386982	0.373142	0.482188
0.001272	0.582213	3.660975	
0.50000	0.386982	0.390502	0.482188
0.001272	0.010687	3.888866	
0.75000	0.386982	0.409905	0.482188
0.001272	0.476055	4.482069	
1.00000	0.386982	0.427089	0.482188
0.001272	0.961221	5.306105	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.252181	-1.466160	-0.389957
-2.79E-06	-0.977807	-10.353138	
0.25000	-0.252181	-1.450883	-0.389957
-2.79E-06	-0.493054	-9.340508	
0.50000	-0.252181	-1.431775	-0.389957
-2.79E-06	-0.026775	-8.586657	
0.75000	-0.252181	-1.413787	-0.389957
-2.79E-06	-0.610470	-8.015484	
1.00000	-0.252181	-1.403627	-0.389957
-2.79E-06	-1.211863	-7.615868	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.567944	5.523151	0.459465
0.001055	1.116775	9.217495	
0.25000	0.567944	9.858327	0.459465
0.001055	0.551641	22.881805	
0.50000	0.567944	22.010645	0.459465
0.001055	0.030775	33.277774	
0.75000	0.567944	35.592251	0.459465
0.001055	0.451870	25.706265	
1.00000	0.567944	47.621049	0.459465
0.001055	0.895492	10.528002	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4125

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.321918	-48.814411	-0.358195
-0.000481	-0.899665	-37.266538	
0.25000	-0.321918	-37.700519	-0.358195
-0.000481	-0.454720	-17.512712	
0.50000	-0.321918	-24.325227	-0.358195
-0.000481	-0.044373	-18.583817	
0.75000	-0.321918	-11.733224	-0.358195
-0.000481	-0.598082	-20.266125	
1.00000	-0.321918	-4.621211	-0.358195
-0.000481	-1.170791	-37.085975	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.349518	11.671901	0.330788
0.001374	0.810642	16.779842	
0.25000	0.349518	32.202447	0.330788
0.001374	0.400193	64.920243	
0.50000	0.349518	61.728874	0.330788
0.001374	0.048440	93.465589	
0.75000	0.349518	90.287288	0.330788
0.001374	0.307468	74.042699	
1.00000	0.349518	119.342989	0.330788
0.001374	0.622782	17.222014	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.363239	-121.163567	-0.253804
-0.001458	-0.640653	-75.688909	
0.25000	-0.363239	-87.246533	-0.253804
-0.001458	-0.325254	-22.549591	
0.50000	-0.363239	-61.528439	-0.253804
-0.001458	-0.050352	-27.355267	
0.75000	-0.363239	-31.121904	-0.253804
-0.001458	-0.424637	-33.881581	
1.00000	-0.363239	-7.725785	-0.253804
-0.001458	-0.835722	-83.795691	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.567944	12.938720	0.482188
0.001272	1.183617	14.738867	
0.25000	0.567944	23.893641	0.482188
0.001272	0.582213	49.720856	
0.50000	0.567944	54.602356	0.482188
0.001272	0.054148	75.252921	
0.75000	0.567944	88.922860	0.482188
0.001272	0.476055	55.313215	
1.00000	0.567944	119.319440	0.482188
0.001272	0.961221	15.051549	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.550812	-120.292345	-0.389957
-0.001478	-0.977807	-73.134974	
0.25000	-0.550812	-92.207717	-0.389957
-0.001478	-0.493054	-25.059216	
0.50000	-0.550812	-58.408565	-0.389957
-0.001478	-0.058843	-29.104414	
0.75000	-0.550812	-26.588775	-0.389957
-0.001478	-0.610470	-34.367625	
1.00000	-0.550812	-8.616832	-0.389957
-0.001478	-1.211863	-77.774202	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.567944	12.938720	0.482188
0.001374	1.183617	16.779842	
0.25000	0.567944	32.202447	0.482188
0.001374	0.582213	64.920243	
0.50000	0.567944	61.728874	0.482188
0.001374	0.054148	93.465589	
0.75000	0.567944	90.287288	0.482188
0.001374	0.476055	74.042699	
1.00000	0.567944	119.342989	0.482188
0.001374	0.961221	17.222014	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4126

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.550812	-121.163567	-0.389957
-0.001478	-0.977807	-75.688909	
0.25000	-0.550812	-92.207717	-0.389957
-0.001478	-0.493054	-25.059216	
0.50000	-0.550812	-61.528439	-0.389957
-0.001478	-0.058843	-29.104414	
0.75000	-0.550812	-31.121341	-0.389957
-0.001478	-0.610470	-34.367625	
1.00000	-0.550812	-8.616832	-0.389957
-0.001478	-1.211863	-83.795691	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.567944	12.938720	0.482188
0.001374	1.183617	16.779842	
0.25000	0.567944	32.202447	0.482188
0.001374	0.582213	64.920243	

```
 0.50000     0.567944    61.728874     0.482188
 0.001374    0.054148    93.465589
 0.75000     0.567944    90.287288     0.482188
 0.001374    0.476055    74.042699
 1.00000     0.567944   119.342989     0.482188
 0.001374    0.961221    17.222014

COMB  DESIGN  ------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.550812  -121.163567   -0.389957
-0.001478   -0.977807   -75.688909
 0.25000   -0.550812   -92.207717   -0.389957
-0.001478   -0.493054   -25.059216
 0.50000   -0.550812   -61.528439   -0.389957
-0.001478   -0.058843   -29.104414
 0.75000   -0.550812   -31.121341   -0.389957
-0.001478   -0.610470   -34.367625
 1.00000   -0.550812    -8.616832   -0.389957
-0.001478   -1.211863   -83.795691

ELEM      398 ================== LENGTH
=     4.972851

COMB DB-G1-1 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.171220    0.108012    0.104671
 5.86E-06   0.254498    2.702483
 0.25000    0.171220    0.131960    0.104671
 5.86E-06   0.124382    2.992235
 0.50000    0.171220    0.163734    0.104671
 5.86E-06   0.010135    3.382185
 0.75000    0.171220    0.193667    0.104671
 5.86E-06   0.100073    3.899958
 1.00000    0.171220    0.225231    0.104671
 5.86E-06   0.191480    4.459108

COMB DB-G1-1 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.173406   -0.775045   -0.073628
-0.001232   -0.174869   -3.194386
 0.25000   -0.173406   -0.743092   -0.073628
-0.001232   -0.083603   -2.978339
 0.50000   -0.173406   -0.713210   -0.073628
-0.001232   -0.007270   -2.817528
 0.75000   -0.173406   -0.681371   -0.073628
-0.001232   -0.136148   -2.657421
 1.00000   -0.173406   -0.657134   -0.073628
-0.001232   -0.266284   -2.551422

COMB DB-G1-2 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.303024   11.045971    0.168426
 6.15E-05   0.413840   17.260612
 0.25000    0.303024   33.364978    0.168426
 6.15E-05   0.216046   72.508046
 0.50000    0.303024   62.978809    0.168426
 6.15E-05   0.062519   99.393834
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                      4127

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
        T          M2          M3
 0.75000    0.303024   90.876497    0.168426
 6.15E-05   0.160842   77.483071
 1.00000    0.303024  120.293941    0.168426
 6.15E-05   0.291173   20.105592

COMB DB-G1-2 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.280597  -121.366004   -0.109744
-0.001547   -0.283345   -83.798733
 0.25000   -0.280597   -91.585929   -0.109744
-0.001547   -0.149227   -32.251442
 0.50000   -0.280597   -63.735970   -0.109744
-0.001547   -0.054049   -32.183561
 0.75000   -0.280597   -34.061887   -0.109744
-0.001547   -0.240690   -32.158988
 1.00000   -0.280597   -11.472892   -0.109744
-0.001547   -0.450190   -83.527138

COMB DB-G1-3 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.299773    7.641255    0.242496
 0.000451   0.602523   15.066354
 0.25000    0.299773   22.835900    0.242496
 0.000451   0.309245   52.873119
 0.50000    0.299773   42.996818    0.242496
 0.000451   0.153017   77.530177
 0.75000    0.299773   61.989397    0.242496
 0.000451   0.205587   57.199327
 1.00000    0.299773   82.016616    0.242496
 0.000451   0.393851   18.863705

COMB DB-G1-3 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.339177   -83.349949   -0.154857
-0.001343   -0.395869   -60.293290
 0.25000   -0.339177   -63.075853   -0.154857
-0.001343   -0.204855   -25.060769
 0.50000   -0.339177   -44.115768   -0.154857
-0.001343   -0.045987   -24.875120
 0.75000   -0.339177   -23.913831   -0.154857
-0.001343   -0.320761   -25.127317
 1.00000   -0.339177    -8.535379   -0.154857
-0.001343   -0.621951   -59.550608

COMB DB-G1-4 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.285116    6.401113    0.307098
 0.000820   0.766883   13.299719
 0.25000    0.285116   19.009436    0.307098
 0.000820   0.391907   44.768092
 0.50000    0.285116   35.738708    0.307098
 0.000820   0.050726   60.410136
 0.75000    0.285116   51.498508    0.307098
 0.000820   0.257623   48.749046
 1.00000    0.285116   68.116838    0.307098
 0.000820   0.505629   17.218310

COMB DB-G1-4 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.354509   -69.413773   -0.202333
-0.001119   -0.511670   -51.422243
 0.25000   -0.354509   -52.590587   -0.202333
-0.001119   -0.266603   -22.162217
 0.50000   -0.354509   -36.857751   -0.202333
-0.001119   -0.043042   -21.983812
 0.75000   -0.354509   -20.094441   -0.202333
-0.001119   -0.394274   -22.168147
 1.00000   -0.354509    -7.333598   -0.202333
-0.001119   -0.775779   -50.709279

COMB DB-G2-1 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.116534    9.262591    0.083486
 0.000211   0.211019   13.010070
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                      4128

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
        T          M2          M3
 0.25000    0.116534   27.941588    0.083486
 0.000211   0.117135   59.080785
 0.50000    0.116534   52.725695    0.083486
 0.000211   0.047126   81.354807
 0.75000    0.116534   76.073546    0.083486
 0.000211   0.065058   62.685840
 1.00000    0.116534  100.693295    0.083486
 0.000211   0.116115   14.300325

COMB DB-G2-1 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.123406  -101.243346   -0.045089
-0.000176   -0.131595   -68.179756
 0.25000   -0.123406   -76.320108   -0.045089
-0.000176   -0.077462   -25.149162
 0.50000   -0.123406   -53.012202   -0.045089
-0.000176   -0.041295   -25.202608
 0.75000   -0.123406   -28.177669   -0.045089
-0.000176   -0.122680   -25.794306
 1.00000   -0.123406    -9.272716   -0.045089
-0.000176   -0.226317   -68.392533

COMB DB-G2-2 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.143908    8.641966    0.200510
 0.000716   0.507272   14.055946
 0.25000    0.143908   26.027802    0.200510
 0.000716   0.267386   57.035877
 0.50000    0.143908   49.096086    0.200510
 0.000716   0.052761   78.001154
 0.75000    0.143908   70.827547    0.200510
 0.000716   0.153155   61.039372
 1.00000    0.143908   93.742852    0.200510
 0.000716   0.299557   16.509448

COMB DB-G2-2 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.216772   -94.665140   -0.121534
-7.50E-05   -0.326675   -65.700282
 0.25000   -0.216772   -71.467352   -0.121534
-7.50E-05   -0.177347   -25.575883
 0.50000   -0.216772   -49.773074   -0.121534
-7.50E-05   -0.045538   -25.552398
 0.75000   -0.216772   -26.657856   -0.121534
-7.50E-05   -0.262007   -26.029898
 1.00000   -0.216772    -9.061707   -0.121534
-7.50E-05   -0.511035   -65.605997

COMB DB-G2-3 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.248239    6.362833    0.241036
 0.000649   0.601661   13.591097
 0.25000    0.248239   18.669423    0.241036
 0.000649   0.308764   44.163478
 0.50000    0.248239   34.998337    0.241036
 0.000649   0.050096   59.352334
 0.75000    0.248239   50.380979    0.241036
 0.000649   0.199438   47.965234
 1.00000    0.248239   66.601606    0.241036
 0.000649   0.388715   17.254848

COMB DB-G2-3 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.323741   -67.887910   -0.154914
-0.000955   -0.397145   -49.870094
 0.25000   -0.323741   -51.467330   -0.154914
-0.000955   -0.206269   -21.302038
 0.50000   -0.323741   -36.111006   -0.154914
-0.000955   -0.040816   -21.119464
 0.75000   -0.323741   -19.748669   -0.154914
-0.000955   -0.312731   -21.291513
 1.00000   -0.323741    -7.293414   -0.154914
-0.000955   -0.612160   -49.139784
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                      4129

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.260952    5.377410    0.310742
 0.000969   0.777869   11.873268
 0.25000    0.260952   15.688579    0.310742
 0.000969   0.397249   37.656731
 0.50000    0.260952   29.365700    0.310742
 0.000969   0.045692   50.553974
 0.75000    0.260952   42.251918    0.310742
 0.000969   0.258317   41.190570
 1.00000    0.260952   55.840125    0.310742
 0.000969   0.512988   15.646208

COMB DB-G2-4 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.340152   -57.040614   -0.207090
-0.000795   -0.529808   -43.038177
 0.25000   -0.340152   -43.284903   -0.207090
-0.000795   -0.273754   -19.095783
 0.50000   -0.340152   -30.420732   -0.207090
-0.000795   -0.038916   -18.932359
 0.75000   -0.340152   -16.713980   -0.207090
-0.000795   -0.218470   -19.166854
 1.00000   -0.340152    -6.279901   -0.207090
-0.000795   -0.780201   -42.386118

COMB DB-G3-1 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.101244    0.095034    0.170367
 0.000661   0.428338    0.788773
 0.25000    0.101244    0.118981    0.170367
 0.000661   0.216555    1.069810
 0.50000    0.101244    0.150756    0.170367
 0.000661   0.005780    1.350401
 0.75000    0.101244    0.186689    0.170367
 0.000661   0.144077    1.606871
 1.00000    0.101244    0.212252    0.170367
 0.000661   0.295531    1.843854

COMB DB-G3-1 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.137290   -0.399589   -0.121841
-5.34E-07   -0.310431   -2.002237
 0.25000   -0.137290   -0.367636   -0.121841
-5.34E-07   -0.158959   -1.937338
 0.50000   -0.137290   -0.337754   -0.121841
-5.34E-07   -0.007336   -1.927850
 0.75000   -0.137290   -0.305915   -0.121841
-5.34E-07   -0.207230   -1.920210
 1.00000   -0.137290   -0.281678   -0.121841
-5.34E-07   -0.419000   -1.966938

COMB DB-G3-2 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.133758    0.517247    0.285391
 0.001179   0.718909    2.470928
 0.25000    0.133758    1.235670    0.285391
 0.001179   0.364568    4.477325
 0.50000    0.133758    2.188904    0.285391
 0.001179   0.013482    5.757473
 0.75000    0.133758    3.086899    0.285391
 0.001179   0.236502    5.626074
 1.00000    0.133758    4.033812    0.285391
 0.001179   0.485088    4.459554

COMB DB-G3-2 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.232141   -4.508961   -0.200112
-3.51E-06   -0.510995   -6.180145
 0.25000   -0.232141   -3.550375   -0.200112
-3.51E-06   -0.262304   -4.475749
 0.50000   -0.232141   -2.653917   -0.200112
-3.51E-06   -0.014409   -4.428416
 0.75000   -0.232141   -1.698743   -0.200112
-3.51E-06   -0.236700   -4.403251
 1.00000   -0.232141   -0.971629   -0.200112
-3.51E-06   -0.701343   -5.994239
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                      4130

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.178253    0.826151    0.331600
 0.001331   0.836178    5.014219
 0.25000    0.178253    1.968444    0.331600
 0.001331   0.424890    8.206154
 0.50000    0.178253    3.484087    0.331600
 0.001331   0.022618   10.169713
 0.75000    0.178253    4.911898    0.331600
 0.001331   0.259929    9.935993
 1.00000    0.178253    6.417490    0.331600
 0.001331   0.535217    8.072930

COMB DB-G3-3 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.298386   -7.258385   -0.221693
-5.29E-06   -0.568667   -9.458908
 0.25000   -0.298386   -5.734233   -0.221693
-5.29E-06   -0.293192   -6.690847
 0.50000   -0.298386   -4.308865   -0.221693
-5.29E-06   -0.020136   -6.557516
 0.75000   -0.298386   -2.790138   -0.221693
-5.29E-06   -0.402890   -6.458453
 1.00000   -0.298386   -1.634027   -0.221693
-5.29E-06   -0.814871   -8.926792

COMB DB-G3-4 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.256335    6.290036    0.325081
 0.001102   0.815913   12.438319
 0.25000    0.256335   18.467305    0.325081
 0.001102   0.418382   42.808972
 0.50000    0.256335   34.624636    0.325081
 0.001102   0.048323   57.873749
 0.75000    0.256335   49.845639    0.325081
 0.001102   0.169134   46.543236
 1.00000    0.256335   65.895822    0.325081
 0.001102   0.536093   16.017547

COMB DB-G3-4 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.342838   -67.012901   -0.217500
-0.000536   -0.561441   -49.313473
 0.25000   -0.342838   -50.764867   -0.217500
-0.000536   -0.292392   -21.115649
 0.50000   -0.342838   -35.569905   -0.217500
-0.000536   -0.042314   -21.005035
 0.75000   -0.342838   -19.379700   -0.217500
-0.000536   -0.411735   -21.246447
 1.00000   -0.342838    -7.055125   -0.217500
-0.000536   -0.815647   -48.873446

COMB DL-G1-1 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.228822    0.188467    0.143627
 5.53E-06   0.346860    2.865448
 0.25000    0.228822    0.196515    0.143627
 5.53E-06   0.168222    3.043123
 0.50000    0.228822    0.215947    0.143627
 5.53E-06   0.010458    3.321082
 0.75000    0.228822    0.237153    0.143627
 5.53E-06   0.113546    3.699434
 1.00000    0.228822    0.255778    0.143627
 5.53E-06   0.217909    4.234698

COMB DL-G1-1 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.366042   -0.892067   -0.083719
-0.001258   -0.198931   -4.637998
 0.25000   -0.366042   -0.873535   -0.083719
-0.001258   -0.095334   -4.608451
 0.50000   -0.366042   -0.852351   -0.083719
-0.001258   -0.010083   -3.607811
 0.75000   -0.366042   -0.832859   -0.083719
-0.001258   -0.188198   -3.238467
 1.00000   -0.366042   -0.824412   -0.083719
-0.001258   -0.366963   -3.075196
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                      4131

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.471445   12.582445    0.229805
 5.02E-05   0.561712   15.074381
 0.25000    0.471445   25.394179    0.229805
 5.02E-05   0.292651   55.292072
 0.50000    0.471445   56.329821    0.229805
 5.02E-05   0.065316   79.324669
 0.75000    0.471445   90.089240    0.229805
 5.02E-05   0.199615   57.569851
 1.00000    0.471445  119.740094    0.229805
 5.02E-05   0.353016   18.407193

COMB DL-G1-2 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.501309  -121.123759   -0.136200
-0.001510   -0.354306   -77.792945
 0.25000   -0.501309   -91.620570   -0.136200
-0.001510   -0.185921   -31.503436
 0.50000   -0.501309   -57.895177   -0.136200
-0.001510   -0.048734   -31.332553
 0.75000   -0.501309   -26.864899   -0.136200
-0.001510   -0.321850   -31.192750
 1.00000   -0.501309   -13.417748   -0.136200
-0.001510   -0.605654   -75.665887

COMB DL-G1-3 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.464293    9.143807    0.349811
 0.000368   0.867876   13.935212
 0.25000    0.464293   18.240782    0.349811
 0.000368   0.444028   42.604558
 0.50000    0.464293   40.206643    0.349811
 0.000368   0.059691   59.929798
 0.75000    0.464293   64.177527    0.349811
 0.000368   0.287310   44.899639
 1.00000    0.464293   85.231123    0.349811
 0.000368   0.548655   17.764437

COMB DL-G1-3 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.535117   -86.841245   -0.219345
-0.001301   -0.563072   -59.779264
 0.25000   -0.535117   -65.893198   -0.219345
-0.001301   -0.291076   -26.403963
 0.50000   -0.535117   -41.946474   -0.219345
-0.001301   -0.046230   -25.806588
 0.75000   -0.535117   -19.913418   -0.219345
-0.001301   -0.453840   -25.462849
 1.00000   -0.535117   -10.365264   -0.219345
-0.001301   -0.888372   -56.982238

COMB DL-G1-4 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.444747    7.684523    0.437836
 0.000731   1.092060   12.675788
 0.25000    0.444747   15.235157    0.437836
 0.000731   0.556259   36.547667
 0.50000    0.444747   33.467171    0.437836
 0.000731   0.054802   51.061858
 0.75000    0.444747   53.363387    0.437836
 0.000731   0.369201   38.806794
 1.00000    0.444747   70.838207    0.437836
 0.000731   0.722812   16.578318

COMB DL-G1-4 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.558951   -72.380630   -0.292105
-0.001084   -0.747097   -51.401319
 0.25000   -0.558951   -54.992836   -0.292105
-0.001084   -0.384504   -23.563083
 0.50000   -0.558951   -35.116674   -0.292105
-0.001084   -0.044448   -22.984201
 0.75000   -0.558951   -16.828886   -0.292105
-0.001084   -0.554591   -22.665579
 1.00000   -0.558951    -8.903767   -0.292105
-0.001084   -1.098574   -48.878166
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                      4132

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.256453    8.859553    0.112835
 0.000175   0.285676    9.799553
 0.25000    0.256453   17.840673    0.112835
 0.000175   0.157010   37.838096
 0.50000    0.256453   39.526714    0.112835
 0.000175   0.043049   54.512133
 0.75000    0.256453   63.192236    0.112835
 0.000175   0.097470   39.186415
 1.00000    0.256453   83.977634    0.112835
 0.000175   0.174725   11.613823

COMB DL-G2-1 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.158337   -84.691264   -0.071314
-0.000166   -0.200153   -52.698554
 0.25000   -0.158337   -64.009380   -0.071314
-0.000166   -0.111805   -20.474644
 0.50000   -0.158337   -40.367710   -0.071314
-0.000166   -0.030892   -20.483279
 0.75000   -0.158337   -18.615300   -0.071314
-0.000166   -0.153242   -20.608841
 1.00000   -0.158337    -9.188808   -0.071314
-0.000166   -0.292249   -51.905066

COMB DL-G2-2 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.264622    8.539306    0.288457
 0.000614   0.729732   11.375219
 0.25000    0.264622   17.109970    0.288457
 0.000614   0.380904   38.276330
 0.50000    0.264622   37.804982    0.288457
 0.000614   0.050519   54.439654
 0.75000    0.264622   60.389016    0.288457
 0.000614   0.240644   40.077748
 1.00000    0.264622   80.224543    0.288457
 0.000614   0.470301   14.209314

COMB DL-G2-2 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.263038   -81.318941   -0.193895
-5.98E-05   -0.512756   -53.377676
 0.25000   -0.263038   -61.582197   -0.193895
-5.98E-05   -0.271929   -22.314585
 0.50000   -0.263038   -39.020926   -0.193895
-5.98E-05   -0.038512   -22.086007
 0.75000   -0.263038   -18.262606   -0.193895
-5.98E-05   -0.362409   -22.053779
 1.00000   -0.263038    -9.266867   -0.193895
-5.98E-05   -0.720633   -51.948971

COMB DL-G2-3 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.413065    5.925164    0.351069
 0.000558   0.876470   11.392450
 0.25000    0.413065   11.494888    0.351069
 0.000558   0.445883   28.843765
 0.50000    0.413065   24.943731    0.351069
 0.000558   0.046927   39.532283
 0.75000    0.413065   39.620172    0.351069
 0.000558   0.287914   30.810135
 1.00000    0.413065   52.510471    0.351069
 0.000558   0.563583   14.857883

COMB DL-G2-3 -------------------- MIN

REL DIST          P           V2          V3
        T          M2          M3
 0.00000   -0.445164   -53.974132   -0.228273
-0.000899   -0.584155   -40.323857
 0.25000   -0.445164   -41.148028   -0.228273
-0.000899   -0.300484   -19.562276
 0.50000   -0.445164   -26.486379   -0.228273
-0.000899   -0.037437   -18.928301
 0.75000   -0.445164   -12.996395   -0.228273
-0.000899   -0.443420   -18.308851
 1.00000   -0.445164    -7.150432   -0.228273
-0.000899   -0.879710   -37.381622
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                      4133

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 -------------------- MAX

REL DIST          P           V2          V3
        T          M2          M3
 0.00000    0.433543    5.047877    0.448186
 0.000883   1.121771   10.478122
 0.25000    0.433543    9.725528    0.448186
 0.000883   0.569091   25.241951
```

```
0.50000     0.433543    21.020341     0.448186
 0.000883    0.044251    34.365016
0.75000     0.433543    33.346133     0.448186
 0.000883    0.383499    27.220002
1.00000     0.433543    44.171861     0.448186
 0.000883    0.762915    14.065279

COMB DL-G2-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.476034   -45.558287    -0.310687
-0.000749   -0.792617   -35.484362
0.25000    -0.476034   -34.786473    -0.310687
-0.000749   -0.406450   -17.947855
0.50000    -0.476034   -22.473103    -0.310687
-0.000749   -0.037282   -17.368687
0.75000    -0.476034   -11.143738    -0.310687
-0.000749   -0.557402   -16.845215
1.00000    -0.476034    -6.234092    -0.310687
-0.000749   -1.114951   -32.934443

COMB DL-G3-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.180281    0.137932     0.240950
 0.000662    0.605985    1.430865
0.25000     0.180281    0.145980     0.240950
 0.000662    0.305545    1.610641
0.50000     0.180281    0.165412     0.240950
 0.000662    0.005218    1.838498
0.75000     0.180281    0.186617     0.240950
 0.000662    0.226967    2.103523
1.00000     0.180281    0.205242     0.240950
 0.000662    0.463525    2.454704

COMB DL-G3-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.175201   -0.441372    -0.190228
-3.17E-07   -0.482573   -2.564287
0.25000    -0.175201   -0.422840    -0.190228
-3.17E-07   -0.245955   -2.397577
0.50000    -0.175201   -0.401655    -0.190228
-3.17E-07   -0.009274   -2.331126
0.75000    -0.175201   -0.382164    -0.190228
-3.17E-07   -0.290914   -2.331487
1.00000    -0.175201   -0.373717    -0.190228
-3.17E-07   -0.591208   -2.471898

COMB DL-G3-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.221071    0.526544     0.407823
 0.001147    1.026985    3.202476
0.25000     0.221071    0.792114     0.407823
 0.001147    0.518622    4.253560
0.50000     0.221071    1.333368     0.407823
 0.001147    0.015541    5.104896
0.75000     0.221071    2.133155     0.407823
 0.001147    0.369258    5.196100
1.00000     0.221071    2.747777     0.407823
 0.001147    0.754796    5.146835

COMB DL-G3-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.310937   -3.289917    -0.310312
-2.11E-06   -0.888978   -6.411313
0.25000    -0.310937   -2.678356    -0.310312
-2.11E-06   -0.403074   -5.128555
0.50000    -0.310937   -1.979274    -0.310312
-2.11E-06   -0.017432   -4.929500
0.75000    -0.310937   -1.336059    -0.310312
-2.11E-06   -0.491880   -4.851848
1.00000    -0.310937   -1.057318    -0.310312
-2.11E-06   -1.000317   -5.923638
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4134

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.319203    0.458581     0.477596
 0.001236    1.205587    5.236925
0.25000     0.319203    0.465824     0.477596
 0.001236    0.609981    5.450208
0.50000     0.319203    0.483312     0.477596
 0.001236    0.022852    5.925713
0.75000     0.319203    0.502397     0.477596
 0.001236    0.413397    6.757532
1.00000     0.319203    0.519160     0.477596
 0.001236    0.849598    7.963030

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.367067   -1.447513    -0.350805
-2.87E-06   -0.894744   -7.585075
0.25000    -0.367067   -1.430834    -0.350805
-2.87E-06   -0.458439   -6.880623
0.50000    -0.367067   -1.411768    -0.350805
-2.87E-06   -0.023146   -6.386765
0.75000    -0.367067   -1.394226    -0.350805
-2.87E-06   -0.572321   -6.083137
1.00000    -0.367067   -1.386624    -0.350805
-2.87E-06   -1.167907   -6.201921

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.457381    5.445885     0.468072
 0.001026    1.174969   10.482563
0.25000     0.457381   10.515855     0.468072
 0.001026    0.597819   26.456362
0.50000     0.457381   22.757975     0.468072
 0.001026    0.044940   36.267705
0.75000     0.457381   36.117544     0.468072
 0.001026    0.409447   28.422170
1.00000     0.457381   47.851236     0.468072
 0.001026    0.819118   14.001888

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.452747   -49.151278    -0.334757
-0.000498   -0.856971   -37.064181
0.25000    -0.452747   -37.476021    -0.334757
-0.000498   -0.440917   -18.297431
0.50000    -0.452747   -24.129917    -0.334757
-0.000498   -0.038193   -17.810218
0.75000    -0.452747   -11.850347    -0.334757
-0.000498   -0.578802   -17.482913
1.00000    -0.452747    -6.528924    -0.334757
-0.000498   -1.161299   -35.149256

COMB       DB ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.303024   11.045971     0.331600
 0.001331    0.836178   17.260612
0.25000     0.303024   33.364978     0.331600
 0.001331    0.424890   72.508046
0.50000     0.303024   62.978809     0.331600
 0.001331    0.062519   99.393834
0.75000     0.303024   90.876497     0.331600
 0.001331    0.269134   77.483071
1.00000     0.303024  120.293941     0.331600
 0.001331    0.536093   20.105592

COMB       DB ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.354509 -121.366004    -0.221693
-0.001547   -0.568667   -83.798733
0.25000    -0.354509   -91.620570    -0.221693
-0.001547   -0.293192   -32.251442
0.50000    -0.354509   -63.735970    -0.221693
-0.001547   -0.054049   -32.183561
0.75000    -0.354509   -34.061887    -0.221693
-0.001547   -0.411735   -32.758988
1.00000    -0.354509   -11.472892    -0.221693
-0.001547   -0.815647   -83.527138
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4135

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.471445   12.582445     0.477596
 0.001236    1.205587   15.074381
0.25000     0.471445   25.394179     0.477596
 0.001236    0.609981   55.292072
0.50000     0.471445   56.329821     0.477596
 0.001236    0.065316   79.324669
0.75000     0.471445   90.089240     0.477596
 0.001236    0.413397   57.569851
1.00000     0.471445  119.740094     0.477596
 0.001236    0.849598   18.407193

COMB       DL ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.558951 -121.123759    -0.350805
-0.001510   -0.894744   -77.792945
0.25000    -0.558951   -91.620570    -0.350805
-0.001510   -0.458439   -31.503436
0.50000    -0.558951   -57.895177    -0.350805
-0.001510   -0.048734   -31.242553
0.75000    -0.558951   -26.864899    -0.350805
-0.001510   -0.578802   -31.192750
1.00000    -0.558951   -13.417748    -0.350805
-0.001510   -1.167907   -75.665887

COMB       CAR ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.471445   12.582445     0.477596
 0.001331    1.205587   17.260612
0.25000     0.471445   33.364978     0.477596
 0.001331    0.609981   72.508046
0.50000     0.471445   62.978809     0.477596
 0.001331    0.065316   99.393834
0.75000     0.471445   90.876497     0.477596
 0.001331    0.413397   77.483071
1.00000     0.471445  120.293941     0.477596
 0.001331    0.849598   20.105592

COMB       CAR ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.558951 -121.366004    -0.350805
-0.001547   -0.894744   -83.798733
0.25000    -0.558951   -91.620570    -0.350805
-0.001547   -0.458439   -32.251442
0.50000    -0.558951   -63.735970    -0.350805
-0.001547   -0.054049   -32.183561
0.75000    -0.558951   -34.061887    -0.350805
-0.001547   -0.578802   -32.758988
1.00000    -0.558951   -13.417748    -0.350805
-0.001547   -1.167907   -83.527138

COMB  DESIGN ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.471445   12.582445     0.477596
 0.001331    1.205587   17.260612
0.25000     0.471445   33.364978     0.477596
 0.001331    0.609981   72.508046
0.50000     0.471445   62.978809     0.477596
 0.001331    0.065316   99.393834
0.75000     0.471445   90.876497     0.477596
 0.001331    0.413397   77.483071
1.00000     0.471445  120.293941     0.477596
 0.001331    0.849598   20.105592

COMB  DESIGN ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.558951 -121.366004    -0.350805
-0.001547   -0.894744   -83.798733
0.25000    -0.558951   -91.620570    -0.350805
-0.001547   -0.458439   -32.251442
0.50000    -0.558951   -63.735970    -0.350805
-0.001547   -0.054049   -32.183561
0.75000    -0.558951   -34.061887    -0.350805
-0.001547   -0.578802   -32.758988
1.00000    -0.558951   -13.417748    -0.350805
-0.001547   -1.167907   -83.527138
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4136

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      399 ================== LENGTH
=     4.972465

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.230721    0.143922     0.115793
6.83E-06    0.282416    4.471673
0.25000     0.230721    0.167962     0.115793
6.83E-06    0.138499    5.003785
0.50000     0.230721    0.199724     0.115793
6.83E-06    0.017268    5.955103
0.75000     0.230721    0.229598     0.115793
6.83E-06    0.126868    6.532005
1.00000     0.230721    0.261192     0.115793
6.83E-06    0.242754    7.411470

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.141198   -1.016933    -0.093279
-0.001082   -0.221588   -2.582252
0.25000    -0.141198   -0.985229    -0.093279
-0.001082   -0.106069   -2.529637
0.50000    -0.141198   -0.955371    -0.093279
-0.001082   -0.006564   -2.531570
0.75000    -0.141198   -0.923602    -0.093279
-0.001082   -0.149460   -2.534612
1.00000    -0.141198   -0.899434    -0.093279
-0.001082   -0.293401   -2.591746

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.376859   10.958411     0.176767
 5.96E-05    0.440973   20.147512
0.25000     0.376859   33.363611     0.176767
 5.96E-05    0.231507   78.946724
0.50000     0.376859   62.965216     0.176767
 5.96E-05    0.075084  103.454879
0.75000     0.376859   90.808207     0.176767
 5.96E-05    0.195870   81.943609
1.00000     0.376859  120.254194     0.176767
 5.96E-05    0.355966   25.114694

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.286185 -121.839130    -0.133819
-0.001395   -0.337981   -83.533641
0.25000    -0.286185   -92.291209    -0.133819
-0.001395   -0.175297   -32.169272
0.50000    -0.286185   -64.463914    -0.133819
-0.001395   -0.051623   -31.479579
0.75000    -0.286185   -34.854729    -0.133819
-0.001395   -0.247636   -31.823706
1.00000    -0.286185   -12.330569    -0.133819
-0.001395   -0.467324   -82.581464

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.354533    7.575966     0.234895
 0.000406    0.593452   18.881941
0.25000     0.354533   22.829292     0.234895
 0.000406    0.308884   59.355085
0.50000     0.354533   42.981887     0.234895
 0.000406    0.071784   76.717608
0.75000     0.354533   61.937227     0.234895
 0.000406    0.221231   63.011414
1.00000     0.354533   81.983878     0.234895
 0.000406    0.420533   25.415800

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.348929   -83.965296    -0.163844
-0.001387   -0.413501   -59.550837
0.25000    -0.348929   -63.849248    -0.163844
-0.001387   -0.212245   -24.623816
0.50000    -0.348929   -44.904593    -0.163844
-0.001387   -0.043697   -24.195868
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4137

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    -0.348929   -24.746838    -0.163844
-0.001387   -0.303697   -24.471737
1.00000    -0.348929    -9.412525    -0.163844
-0.001387   -0.595385   -59.068904

COMB DB-G1-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.363096    6.366704     0.286778
 0.000715    0.728206   17.199716
0.25000     0.363096   19.023719     0.286778
 0.000715    0.377899   51.004229
0.50000     0.363096   35.746085     0.286778
 0.000715    0.067457   65.706135
0.75000     0.363096   51.474985     0.286778
 0.000715    0.256604   54.672400
1.00000     0.363096   68.109440     0.286778
 0.000715    0.499483   23.865680

COMB DB-G1-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.372324   -70.013754    -0.198303
-0.001156   -0.502634   -50.689592
0.25000    -0.372324   -53.321715    -0.198303
-0.001156   -0.258110   -21.752375
0.50000    -0.372324   -37.601682    -0.198303
-0.001156   -0.040916   -21.442076
0.75000    -0.372324   -20.875034    -0.198303
-0.001156   -0.358963   -21.715797
1.00000    -0.372324    -8.150817    -0.198303
-0.001156   -0.715173   -50.469082

COMB DB-G2-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.127789    9.134953     0.072040
 0.000188    0.190122   14.320195
0.25000     0.127789   27.886086     0.072040
 0.000188    0.109420   63.209008
0.50000     0.127789   52.659962     0.072040
 0.000188    0.053001   83.304541
0.75000     0.127789   75.962035     0.072040
 0.000188    0.107178   64.781707
1.00000     0.127789  100.605672     0.072040
 0.000188    0.105761   16.663112

COMB DB-G2-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.170823 -101.490520    -0.040069
-0.000230   -0.116362   -68.365899
0.25000    -0.170823   -76.761573    -0.040069
-0.000230   -0.069251   -25.390259
0.50000    -0.170823   -53.472635    -0.040069
-0.000230   -0.039723   -24.824602
0.75000    -0.170823   -28.692416    -0.040069
-0.000230   -0.103555   -25.124160
1.00000    -0.170823    -9.841724    -0.040069
-0.000230   -0.193087   -67.615396

COMB DB-G2-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.162489    8.543317     0.170877
 0.000633    0.446185   16.498771
0.25000     0.162489   25.996295     0.170877
 0.000633    0.242287   62.297143
0.50000     0.162489   49.055056     0.170877
 0.000633    0.063514   81.478460
0.75000     0.162489   70.743909     0.170877
 0.000633    0.132874   64.866490
1.00000     0.162489   93.681448     0.170877
 0.000633    0.256420   20.830481

COMB DB-G2-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.268489   -95.082489    -0.103105
-0.000268   -0.277558   -65.562658
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4138

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.25000    -0.268489   -72.065546    -0.103105
-0.000268   -0.151876   -25.610777
0.50000    -0.268489   -50.389919    -0.103105
-0.000268   -0.043682   -25.132864
0.75000    -0.268489   -27.324254    -0.103105
-0.000268   -0.215317   -25.460267
1.00000    -0.268489    -9.778610    -0.103105
-0.000268   -0.427347   -65.058373

COMB DB-G2-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.294677    6.216171     0.225679
 0.000574    0.574234   17.259253
0.25000     0.294677   18.570283     0.225679
 0.000574    0.299774   50.067829
0.50000     0.294677   34.892456     0.225679
 0.000574    0.065479   64.305710
0.75000     0.294677   50.244938     0.225679
 0.000574    0.200242   53.517102
1.00000     0.294677   66.481303     0.225679
 0.000574    0.386616   23.515494

COMB DB-G2-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.347988   -68.481322    -0.152928
-0.001071   -0.388878   -49.124752
0.25000    -0.347988   -52.189250    -0.152928
-0.001071   -0.200813   -20.865271
0.50000    -0.347988   -36.845423    -0.152928
-0.001071   -0.038824   -20.547572
0.75000    -0.347988   -20.519071    -0.152928
-0.001071   -0.284807   -20.799928
1.00000    -0.347988    -8.099365    -0.152928
-0.001071   -0.565018   -48.850100

COMB DB-G2-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.315885    5.284987     0.284397
 0.000844    0.724897   15.612253
0.25000     0.315885   15.634170     0.284397
 0.000844    0.376482   43.379613
0.50000     0.315885   29.307444     0.284397
 0.000844    0.061692   55.584773
0.75000     0.315885   42.168396     0.284397
 0.000844    0.243869   46.827851
1.00000     0.315885   55.769788     0.284397
 0.000844    0.480793   21.970550

COMB DB-G2-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.375573   -57.611589    -0.193112
-0.000893   -0.492063   -42.351233
0.25000    -0.375573   -43.963112    -0.193112
-0.000893   -0.253712   -18.727185
0.50000    -0.375573   -31.109410    -0.193112
-0.000893   -0.037011   -18.510297
0.75000    -0.375573   -17.432635    -0.193112
-0.000893   -0.350374   -18.771056
1.00000    -0.375573    -7.028504    -0.193112
-0.000893   -0.703644   -42.318590

COMB DB-G3-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.111233    0.132491     0.150301
 0.000561    0.383791    1.785525
0.25000     0.111233    0.156531     0.150301
 0.000561    0.197093    2.236599
0.50000     0.111233    0.188293     0.150301
 0.000561    0.010482    2.676163
0.75000     0.111233    0.218167     0.150301
 0.000561    0.120516    3.081738
1.00000     0.111233    0.249762     0.150301
 0.000561    0.248196    3.468820
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4139

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.174061   -0.509049    -0.102716
-4.86E-07   -0.262586   -1.931379
0.25000    -0.174061   -0.477345    -0.102716
-4.86E-07   -0.134900   -1.955821
0.50000    -0.174061   -0.447488    -0.102716
-4.86E-07   -0.007092   -2.034635
0.75000    -0.174061   -0.417571    -0.102716
-4.86E-07   -0.176847   -2.115015
1.00000    -0.174061   -0.391550    -0.102716
-4.86E-07   -0.363682   -2.249555

COMB DB-G3-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.189929    0.559163     0.248905
 0.000995    0.638209    4.369070
0.25000     0.189929    1.280361     0.248905
 0.000995    0.329283    6.817196
0.50000     0.189929    2.232202     0.248905
 0.000995    0.022212    8.354383
0.75000     0.189929    3.129436     0.248905
 0.000995    0.198106    8.491672
1.00000     0.189929    4.077268     0.248905
 0.000995    0.407636    7.617129

COMB DB-G3-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.278781   -4.741454    -0.168719
-2.47E-06   -0.432221   -5.938124
0.25000    -0.278781   -3.790341    -0.168719
-2.47E-06   -0.222538   -5.409046
0.50000    -0.278781   -2.894613    -0.168719
-2.47E-06   -0.013812   -4.512746
0.75000    -0.278781   -1.941527    -0.168719
-2.47E-06   -0.291433   -4.649361
1.00000    -0.278781   -1.216501    -0.168719
-2.47E-06   -0.600759   -6.408889

COMB DB-G3-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.202548    0.840361     0.286070
 0.001149    0.736628    7.189920
0.25000     0.202548    1.987065     0.286070
 0.001149    0.382067   11.784474
0.50000     0.202548    3.502083     0.286070
 0.001149    0.035464   14.120249
0.75000     0.202548    4.927094     0.286070
 0.001149    0.213365   14.391972
1.00000     0.202548    6.434147     0.286070
 0.001149    0.440597   13.058403

COMB DB-G3-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.358782   -7.681781    -0.183060
-0.000208   -0.471111   -8.871323
0.25000    -0.358782   -6.169021    -0.183060
-0.000208   -0.243693   -6.384563
0.50000    -0.358782   -4.744813    -0.183060
-0.000208   -0.019137   -6.491374
0.75000    -0.358782   -3.229407    -0.183060
-0.000208   -0.333160   -6.651507
1.00000    -0.358782   -2.076615    -0.183060
-0.000208   -0.688391   -9.391975

COMB DB-G3-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.294259    6.219390     0.292078
 0.001016    0.747691   15.970164
0.25000     0.294259   18.443686     0.292078
 0.001016    0.390602   48.569053
0.50000     0.294259   34.594347     0.292078
 0.001016    0.063638   62.671483
0.75000     0.294259   49.785507     0.292078
 0.001016    0.243988   51.894342
1.00000     0.294259   65.851263     0.292078
 0.001016    0.483482   22.011153
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.403029	-67.550133	-0.195277
-0.000653	-0.502723	-48.821513	
0.25000	-0.403029	-51.428762	-0.195277
-0.000653	-0.261882	-20.914532	
0.50000	-0.403029	-36.246166	-0.195277
-0.000653	-0.040431	-20.655674	
0.75000	-0.403029	-20.091369	-0.195277
-0.000653	-0.358749	-20.961195	
1.00000	-0.403029	-7.802168	-0.195277
-0.000653	-0.721554	-48.772561	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.313665	0.191261	0.160123
5.42E-06	0.391059	4.238337	
0.25000	0.313665	0.199402	0.160123
5.42E-06	0.191796	5.051265	
0.50000	0.313665	0.218831	0.160123
5.42E-06	0.012937	5.910229	
0.75000	0.313665	0.240000	0.160123
5.42E-06	0.144331	6.811994	
1.00000	0.313665	0.258584	0.160123
5.42E-06	0.276764	7.731705	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.351391	-0.997985	-0.106223
-0.001022	-0.251522	-3.105656	
0.25000	-0.351391	-0.979399	-0.106223
-0.001022	-0.119722	-3.270840	
0.50000	-0.351391	-0.958224	-0.106223
-0.001022	-0.009387	-3.464661	
0.75000	-0.351391	-0.938774	-0.106223
-0.001022	-0.205946	-3.658344	
1.00000	-0.351391	-0.930567	-0.106223
-0.001022	-0.405093	-3.880321	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.562810	12.802313	0.244577
4.52E-05	0.607008	18.414316	
0.25000	0.562810	25.762940	0.244577
4.52E-05	0.319999	59.703305	
0.50000	0.562810	56.693369	0.244577
4.52E-05	0.081184	84.116925	
0.75000	0.562810	90.394348	0.244577
4.52E-05	0.239130	62.696529	
1.00000	0.562810	119.980039	0.244577
4.52E-05	0.424243	23.883802	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.550481	-121.352456	-0.163414
-0.001272	-0.765809	-75.668683	
0.25000	-0.550481	-91.763502	-0.163414
-0.001272	-0.214671	-30.589307	
0.50000	-0.550481	-58.053599	-0.163414
-0.001272	-0.046069	-30.770109	
0.75000	-0.550481	-27.088427	-0.163414
-0.001272	-0.334100	-31.042895	
1.00000	-0.550481	-14.023068	-0.163414
-0.001272	-0.635966	-76.139490	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.545411	9.298312	0.337524
0.000331	0.851917	17.741980	
0.25000	0.545411	18.501009	0.337524
0.000331	0.443532	47.827818	
0.50000	0.545411	40.463167	0.337524
0.000331	0.080436	66.025863	
0.75000	0.545411	64.392556	0.337524
0.000331	0.295407	51.785433	
1.00000	0.545411	85.399883	0.337524
0.000331	0.558903	25.254108	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.588509	-87.152452	-0.222608
-0.001276	-0.567359	-56.964244	
0.25000	-0.588509	-66.142808	-0.222608
-0.001276	-0.291511	-25.224286	
0.50000	-0.588509	-42.207083	-0.222608
-0.001276	-0.044240	-25.620991	
0.75000	-0.588509	-20.220255	-0.222608
-0.001276	-0.425708	-26.083016	
1.00000	-0.588509	-10.943193	-0.222608
-0.001276	-0.844371	-58.372517	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.537273	7.858359	0.409255
0.000613	0.037288	16.516270	
0.25000	0.537273	15.496743	0.409255
0.000613	0.537796	41.848103	
0.50000	0.537273	33.725685	0.409255
0.000613	0.076723	57.327431	
0.75000	0.537273	53.587458	0.409255
0.000613	0.355768	45.927224	
1.00000	0.537273	71.023875	0.409255
0.000613	0.691806	24.340322	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.615131	-72.730551	-0.279139
-0.001062	-0.712200	-48.832524	
0.25000	-0.615131	-55.292252	-0.279139
-0.001062	-0.366525	-22.655581	
0.50000	-0.615131	-35.425218	-0.279139
-0.001062	-0.043134	-23.152467	
0.75000	-0.615131	-17.175601	-0.279139
-0.001062	-0.503709	-23.703577	
1.00000	-0.615131	-9.475692	-0.279139
-0.001062	-1.011618	-50.672043	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.258865	9.018585	0.096686
0.000158	0.252808	11.609025	
0.25000	0.258865	18.104050	0.096686
0.000158	0.144465	40.150158	
0.50000	0.258865	39.786436	0.096686
0.000158	0.050832	56.868026	
0.75000	0.258865	63.410992	0.096686
0.000158	0.086862	41.582747	
1.00000	0.258865	84.150710	0.096686
0.000158	0.150741	14.089943	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.227183	-84.827344	-0.061602
-0.000208	-0.175440	-51.874598	
0.25000	-0.227183	-64.085338	-0.061602
-0.000208	-0.099342	-20.223720	
0.50000	-0.227183	-40.454526	-0.061602
-0.000208	-0.029450	-20.300266	
0.75000	-0.227183	-18.747786	-0.061602
-0.000208	-0.127572	-20.441522	
1.00000	-0.227183	-9.588903	-0.061602
-0.000208	-0.246282	-52.004490	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.284816	8.705574	0.246016
0.000530	0.638452	14.159925	
0.25000	0.284816	17.375843	0.246016
0.000530	0.343450	42.016413	
0.50000	0.284816	38.067367	0.246016
0.000530	0.064888	58.640745	
0.75000	0.284816	60.612306	0.246016
0.000530	0.202879	44.684894	
1.00000	0.284816	80.404241	0.246016
0.000530	0.392833	19.121758	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.334763	-81.565960	-0.162831
-0.000249	-0.435700	-51.886364	
0.25000	-0.334763	-61.771842	-0.162831
-0.000249	-0.234573	-21.907484	
0.50000	-0.334763	-39.220933	-0.162831
-0.000249	-0.037401	-22.205869	
0.75000	-0.334763	-18.506167	-0.162831
-0.000249	-0.296347	-22.565912	
1.00000	-0.334763	-9.765836	-0.162831
-0.000249	-0.601215	-52.912070	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.471462	5.996470	0.325710
0.000483	0.828479	14.824904	
0.25000	0.471462	11.630924	0.325710
0.000483	0.430522	33.624480	
0.50000	0.471462	25.077500	0.325710
0.000483	0.066740	45.294644	
0.75000	0.471462	39.728535	0.325710
0.000483	0.275616	37.470825	
1.00000	0.471462	52.590505	0.325710
0.000483	0.536564	22.163589	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.518042	-54.283324	-0.216753
-0.000975	-0.553226	-37.347199	
0.25000	-0.518042	-41.419936	-0.216753
-0.000975	-0.284911	-18.131446	
0.50000	-0.518042	-26.765021	-0.216753
-0.000975	-0.036253	-18.591105	
0.75000	-0.518042	-13.303340	-0.216753
-0.000975	-0.397142	-19.090686	
1.00000	-0.518042	-7.633356	-0.216753
-0.000975	-0.801496	-39.077518	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.489891	5.169249	0.408209
0.000745	1.039088	13.990187	
0.25000	0.489891	9.901262	0.408209
0.000745	0.537666	30.148566	
0.50000	0.489891	21.194171	0.408209
0.000745	0.065371	40.320034	
0.75000	0.489891	33.496627	0.408209
0.000745	0.351875	34.114768	
1.00000	0.489891	44.300564	0.408209
0.000745	0.698269	21.630366	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.556866	-45.915767	-0.284420
-0.000813	-0.725846	-32.870833	
0.25000	-0.556866	-35.112639	-0.284420
-0.000813	-0.373535	-16.906781	
0.50000	-0.556866	-22.804925	-0.284420
-0.000813	-0.036567	-17.405932	
0.75000	-0.556866	-11.499331	-0.284420
-0.000813	-0.490828	-18.060709	
1.00000	-0.556866	-6.729080	-0.284420
-0.000813	-0.997766	-35.020290	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.180764	0.229967	0.212319
0.000531	0.541860	2.380548	
0.25000	0.180764	0.238109	0.212319
0.000531	0.277172	2.963464	
0.50000	0.180764	0.257537	0.212319
0.000531	0.014342	3.538836	
0.75000	0.180764	0.278706	0.212319
0.000531	0.193917	4.093497	
1.00000	0.180764	0.297290	0.212319
0.000531	0.396396	4.644172	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.223444	-0.589691	-0.164502
-2.83E-07	-0.419759	-2.415934	
0.25000	-0.223444	-0.571105	-0.164502
-2.83E-07	-0.215274	-2.663731	
0.50000	-0.223444	-0.549930	-0.164502
-2.83E-07	-0.009697	-2.940182	
0.75000	-0.223444	-0.530480	-0.164502
-2.83E-07	-0.248269	-3.216596	
1.00000	-0.223444	-0.522273	-0.164502
-2.83E-07	-0.512430	-3.521171	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.262443	0.656388	0.357045
0.000917	0.913592	5.026341	
0.25000	0.262443	0.925044	0.357045
0.000917	0.468803	6.851763	
0.50000	0.262443	1.566190	0.357045
0.000917	0.028069	8.356578	
0.75000	0.262443	2.264765	0.357045
0.000917	0.313066	8.986850	
1.00000	0.262443	2.878037	0.357045
0.000917	0.643833	9.301736	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.369913	-3.541151	-0.266371
-1.68E-06	-0.681555	-5.834549	
0.25000	-0.369913	-2.927812	-0.266371
-1.68E-06	-0.350403	-5.357581	
0.50000	-0.369913	-2.229051	-0.266371
-1.68E-06	-0.018197	-5.819138	
0.75000	-0.369913	-1.587185	-0.266371
-1.68E-06	-0.415722	-6.282565	
1.00000	-0.369913	-1.316358	-0.266371
-1.68E-06	-0.859999	-7.675201	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.336755	0.563429	0.409665
0.001025	1.054402	7.842835	
0.25000	0.336755	0.570756	0.409665
0.001025	0.543450	9.196745	
0.50000	0.336755	0.588242	0.409665
0.001025	0.040707	10.687512	
0.75000	0.336755	0.607294	0.409665
0.001025	0.340156	12.418493	
1.00000	0.336755	0.624019	0.409665
0.001025	0.704854	14.209890	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.450466	-1.77417	-0.293356
-0.000202	-0.754434	-6.105049	
0.25000	-0.450466	-1.760689	-0.293356
-0.000202	-0.390202	-6.688101	
0.50000	-0.450466	-1.741632	-0.293356
-0.000202	-0.023684	-7.296695	
0.75000	-0.450466	-1.724127	-0.293356
-0.000202	-0.469332	-7.905234	
1.00000	-0.450466	-1.716740	-0.293356
-0.000202	-0.979253	-8.538594	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.492199	5.607640	0.418569
0.000917	1.069691	13.910326	
0.25000	0.492199	10.736532	0.418569
0.000917	0.554723	31.222569	
0.50000	0.492199	22.976588	0.418569
0.000917	0.081184	42.065322	
0.75000	0.492199	36.313031	0.418569
0.000917	0.364295	35.027034	
1.00000	0.492199	48.020936	0.418569
0.000917	0.727307	21.222740	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.560881	-49.515356	-0.297920
-0.000604	-0.765809	-35.069338	
0.25000	-0.560881	-37.806160	-0.297920
-0.000604	-0.396217	-17.712348	
0.50000	-0.560881	-24.466185	-0.297920
-0.000604	-0.037591	-18.265325	
0.75000	-0.560881	-12.212380	-0.297920
-0.000604	-0.499518	-18.745238	
1.00000	-0.560881	-7.042043	-0.297920
-0.000604	-1.019494	-37.048659	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.376859	10.958411	0.292078
0.001149	0.747691	20.147512	
0.25000	0.376859	33.363611	0.292078
0.001149	0.390602	78.946724	
0.50000	0.376859	62.965216	0.292078
0.001149	0.075084	103.454879	
0.75000	0.376859	90.808207	0.292078
0.001149	0.364295	81.943609	
1.00000	0.376859	120.254194	0.292078
0.001149	0.499483	25.415800	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.403029	-121.839130	-0.198303
-0.001395	-0.502723	-83.533641	
0.25000	-0.403029	-92.291209	-0.198303
-0.001395	-0.261882	-32.169272	
0.50000	-0.403029	-64.463914	-0.198303
-0.001395	-0.051623	-31.479579	
0.75000	-0.403029	-34.854729	-0.198303
-0.001395	-0.358963	-31.823706	
1.00000	-0.403029	-12.330569	-0.198303
-0.001395	-0.721554	-82.581464	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.562810	12.802313	0.418569
0.001025	1.069691	18.414316	
0.25000	0.562810	25.762940	0.418569
0.001025	0.554723	59.703305	
0.50000	0.562810	56.693369	0.418569
0.001025	0.081184	84.116925	
0.75000	0.562810	90.394348	0.418569
0.001025	0.364295	62.696529	
1.00000	0.562810	119.980039	0.418569
0.001025	0.727307	25.254108	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.615131	-121.352456	-0.297920
-0.001276	-0.765809	-75.668683	
0.25000	-0.615131	-91.763502	-0.297920
-0.001276	-0.396217	-30.589307	
0.50000	-0.615131	-58.053599	-0.297920
-0.001276	-0.046069	-30.770109	
0.75000	-0.615131	-27.088427	-0.297920
-0.001276	-0.503709	-31.042895	
1.00000	-0.615131	-14.023068	-0.297920
-0.001276	-1.019494	-76.139490	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.562810	12.802313	0.418569
0.001149	1.069691	20.147512	
0.25000	0.562810	33.363611	0.418569
0.001149	0.554723	78.946724	
0.50000	0.562810	62.965216	0.418569
0.001149	0.081184	103.454879	
0.75000	0.562810	90.808207	0.418569
0.001149	0.364295	81.943609	
1.00000	0.562810	120.254194	0.418569
0.001149	0.727307	25.415800	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.615131	-121.839130	-0.297920
-0.001395	-0.765809	-83.533641	
0.25000	-0.615131	-92.291209	-0.297920
-0.001395	-0.396217	-32.169272	
0.50000	-0.615131	-64.463914	-0.297920
-0.001395	-0.051623	-31.479579	
0.75000	-0.615131	-34.854729	-0.297920
-0.001395	-0.503709	-31.823706	
1.00000	-0.615131	-14.023068	-0.297920
-0.001395	-1.019494	-82.581464	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.562810	12.802313	0.418569
0.001149	1.069691	20.147512	
0.25000	0.562810	33.363611	0.418569
0.001149	0.554723	78.946724	
0.50000	0.562810	62.965216	0.418569
0.001149	0.081184	103.454879	
0.75000	0.562810	90.808207	0.418569
0.001149	0.364295	81.943609	
1.00000	0.562810	120.254194	0.418569
0.001149	0.727307	25.415800	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.615131	-121.839130	-0.297920
-0.001395	-0.765809	-83.533641	
0.25000	-0.615131	-92.291209	-0.297920
-0.001395	-0.396217	-32.169272	
0.50000	-0.615131	-64.463914	-0.297920
-0.001395	-0.051623	-31.479579	
0.75000	-0.615131	-34.854729	-0.297920
-0.001395	-0.503709	-31.823706	
1.00000	-0.615131	-14.023068	-0.297920
-0.001395	-1.019494	-82.581464	

ELEM 400 ========== LENGTH = 4.973177

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.247511	0.352986	0.126211
0.000275	0.308906	7.431521	
0.25000	0.247511	0.377103	0.126211
0.000275	0.152060	7.446369	
0.50000	0.247511	0.408854	0.126211
0.000275	0.023662	7.581335	
0.75000	0.247511	0.438709	0.126211
0.000275	0.156541	7.904288	
1.00000	0.247511	0.470374	0.126211
0.000275	0.300367	8.326805	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.134673	-0.746932	-0.115961
-0.000833	-0.277196	-2.623878	
0.25000	-0.134673	-0.715242	-0.115961
-0.000833	-0.133054	-2.393403	
0.50000	-0.134673	-0.685390	-0.115961
-0.000833	-0.005820	-2.216840	
0.75000	-0.134673	-0.653638	-0.115961
-0.000833	-0.161305	-2.041558	
1.00000	-0.134673	-0.629489	-0.115961
-0.000833	-0.318803	-1.920360	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.403987	11.380411	0.177520
0.000406	0.446859	25.135467	
0.25000	0.403987	33.857603	0.177520
0.000406	0.236094	83.419101	
0.50000	0.403987	63.449312	0.177520
0.000406	0.086028	106.629804	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.403987	91.274637	0.177520
0.000406	0.242261	84.247870	
1.00000	0.403987	120.785896	0.177520
0.000406	0.444823	26.676904	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.292744	-121.297790	-0.167440
-0.001052	-0.419783	-82.618207	
0.25000	-0.292744	-91.762259	-0.167440
-0.001052	-0.214504	-31.421368	
0.50000	-0.292744	-63.939958	-0.167440
-0.001052	-0.048507	-30.469525	
0.75000	-0.292744	-34.347170	-0.167440
-0.001052	-0.245694	-30.712592	
1.00000	-0.292744	-11.840481	-0.167440
-0.001052	-0.466289	-81.361216	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.381334	8.159263	0.210963
0.000686	0.540939	25.417102	
0.25000	0.381334	23.461601	0.210963
0.000686	0.286067	64.984720	
0.50000	0.381334	43.607458	0.210963
0.000686	0.086190	80.886073	
0.75000	0.381334	62.550773	0.210963
0.000686	0.247387	66.091231	
1.00000	0.381334	82.641860	0.210963
0.000686	0.468530	27.468399	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.356570	-83.298750	-0.181068
-0.001179	-0.453840	-59.095055	
0.25000	-0.356570	-63.191138	-0.181068
-0.001179	-0.230836	-24.069381	
0.50000	-0.356570	-44.249882	-0.181068
-0.001179	-0.040742	-23.250198	
0.75000	-0.356570	-24.103277	-0.181068
-0.001179	-0.268416	-23.244503	
1.00000	-0.356570	-8.780872	-0.181068
-0.001179	-0.530135	-57.554608	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.396071	6.872220	0.243130
0.000818	0.628834	23.843564	
0.25000	0.396071	19.569905	0.243130
0.000818	0.332753	56.697416	
0.50000	0.396071	36.286680	0.243130
0.000818	0.082630	69.978746	
0.75000	0.396071	52.005601	0.243130
0.000818	0.265711	57.843760	
1.00000	0.396071	68.676929	0.243130
0.000818	0.513763	26.000122	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.386039	-69.333688	-0.202182

```
-0.001011   -0.509907   -50.475294
 0.25000    -0.386039   -52.648648    -0.202182
-0.001011   -0.260267   -21.339890
 0.50000    -0.386039   -36.931436    -0.202182
-0.001011   -0.038200   -20.588597
 0.75000    -0.386039   -20.214040    -0.202182
-0.001011   -0.296823   -20.512324
 1.00000    -0.386039    -7.499704    -0.202182
-0.001011   -0.598604   -48.910865

COMB DB-G2-1 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.135878    9.392752    0.049964
 0.000207   0.139843   16.656149
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4147

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P          V2          V3
               T          M2          M3
 0.25000    0.135878   28.204136    0.049964
 0.000207   0.086360   65.437825
 0.50000    0.135878   52.969730    0.049964
 0.000207   0.058238   84.791666
 0.75000    0.135878   76.257019    0.049964
 0.000207   0.063926   65.896453
 1.00000    0.135878  100.955283    0.049964
 0.000207   0.109291   17.408333

COMB DB-G2-1 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.168416 -101.219214   -0.039937
-0.000217   0.115396   -67.614645
 0.25000   -0.168416   -76.500637   -0.039937
-0.000217   -0.068000   -24.882336
 0.50000   -0.168416   -53.215878   -0.039937
-0.000217   -0.037568   -24.200561
 0.75000   -0.168416   -28.449365   -0.039937
-0.000217   -0.072651   -24.518817
 1.00000   -0.168416    -9.613312   -0.039937
-0.000217   -0.134669   -67.021982

COMB DB-G2-2 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.173920    8.922172    0.119186
 0.000531   0.326329   20.800117
 0.25000    0.173920   26.431229    0.119186
 0.000531   0.188660   66.122816
 0.50000    0.173920   49.482282    0.119186
 0.000531   0.073329   84.232347
 0.75000    0.173920   71.157374    0.119186
 0.000531   0.121227   66.931145
 1.00000    0.173920   94.145758    0.119186
 0.000531   0.230133   22.220122

COMB DB-G2-2 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.273408   -94.615758   -0.090795
-0.000364   0.245741   -56.044403
 0.25000   -0.273408   -71.608467   -0.090795
-0.000364   -0.134902   -25.155592
 0.50000   -0.273408   -49.935730   -0.090795
-0.000364   -0.041114   -24.406123
 0.75000   -0.273408   -26.883822   -0.090795
-0.000364   -0.143936   -24.587452
 1.00000   -0.273408    -9.351803   -0.090795
-0.000364   -0.291491   -64.033197

COMB DB-G2-3 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.318119    6.879914    0.190621
 0.000738   0.494984   23.499809
 0.25000    0.318119   19.273722    0.190621
 0.000738   0.264188   55.414345
 0.50000    0.318119   35.590438    0.190621
 0.000738   0.079507   68.310666
 0.75000    0.318119   50.933179    0.190621
 0.000738   0.127999   66.492104
 1.00000    0.318119   67.205535    0.190621
 0.000738   0.404019   25.518792

COMB DB-G2-3 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.376999   -67.852508   -0.157970
-0.000994   -0.399539   -48.859290
 0.25000   -0.376999   -51.566768   -0.157970
-0.000994   -0.204956   -20.440581
 0.50000   -0.376999   -36.225695   -0.157970
-0.000994   -0.036145   -19.726705
 0.75000   -0.376999   -19.908373   -0.157970
-0.000994   -0.234704   -19.671695
 1.00000   -0.376999    -7.498312   -0.157970
-0.000994   -0.471116   -47.410050
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4148

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.350988    5.828029    0.231691
 0.000856   0.603811   21.932161
 0.25000    0.350988   16.210466    0.231691
 0.000856   0.320932   48.774538
 0.50000    0.350988   29.879169    0.231691
 0.000856   0.076517   59.679423
 0.75000    0.350988   42.731961    0.231691
 0.000856   0.239228   49.878074
 1.00000    0.350988   56.363503    0.231691
 0.000856   0.467819   24.033793

COMB DB-G2-4 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.409950   -56.975700   -0.186132
-0.000823   -0.472668   -42.308928
 0.25000   -0.409950   -43.332947   -0.186132
-0.000823   -0.242960   -18.436764
 0.50000   -0.409950   -30.481551   -0.186132
-0.000823   -0.034562   -17.773259
 0.75000   -0.409950   -16.812342   -0.186132
-0.000823   -0.276096   -17.661694
 1.00000   -0.409950    -6.416289   -0.186132
-0.000823   -0.563708   -40.832954

COMB DB-G3-1 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.134452    0.131133    0.114868
 0.000361   0.300698    3.424374
 0.25000    0.134452    0.155250    0.114868
 0.000361   0.157916    3.623765
 0.50000    0.134452    0.187000    0.114868
 0.000361   0.015153    3.802617
 0.75000    0.134452    0.216856    0.114868
 0.000361   0.099291    3.945433
 1.00000    0.134452    0.248520    0.114868
 0.000361   0.205313    4.067419

COMB DB-G3-1 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.192743   -0.343022   -0.085280
-4.91E-06   -0.218861   -2.222275
 0.25000   -0.192743   -0.311332   -0.085280
-4.91E-06   -0.112836   -2.067147
 0.50000   -0.192743   -0.281479   -0.085280
-4.91E-06   -0.006692   -1.965930
 0.75000   -0.192743   -0.249727   -0.085280
-4.91E-06   -0.127898   -1.865996
 1.00000   -0.192743   -0.225579   -0.085280
-4.91E-06   -0.270701   -1.820144

COMB DB-G3-2 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.218307    0.622588    0.186110
 0.000684   0.490956    7.553960
 0.25000    0.218307    1.346103    0.186110
 0.000684   0.260041    9.526360
 0.50000    0.218307    2.298626    0.186110
 0.000684   0.030917   10.509185
 0.75000    0.218307    3.194290    0.186110
 0.000684   0.163970   10.134285
 1.00000    0.218307    4.144224    0.186110
 0.000684   0.338331    8.752622

COMB DB-G3-2 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.304806   -4.402671   -0.140384
-0.000100   -0.360909   -6.366446
 0.25000   -0.304806   -3.451957   -0.140384
-0.000100   -0.186441   -4.538586
 0.50000   -0.304806   -2.556389   -0.140384
-0.000100   -0.012977   -4.328055
 0.75000   -0.304806   -1.603831   -0.140384
-0.000100   -0.204820   -4.155987
 1.00000   -0.304806   -0.879367   -0.140384
-0.000100   -0.436111   -5.606415
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4149

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.234135    1.150541    0.207859
 0.000854   0.553493   12.990081
 0.25000    0.234135    2.300930    0.207859
 0.000854   0.296422   15.964328
 0.50000    0.234135    3.815441    0.207859
 0.000854   0.047912   17.405866
 0.75000    0.234135    5.239548    0.207859
 0.000854   0.172464   16.858338
 1.00000    0.234135    6.749942    0.207859
 0.000854   0.357187   14.746956

COMB DB-G3-3 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.378120   -7.191142   -0.148779
-0.000334   -0.384335   -9.351442
 0.25000   -0.378120   -5.679505   -0.148779
-0.000334   -0.199480   -6.464208
 0.50000   -0.378120   -4.255553   -0.148779
-0.000334   -0.017770   -6.148526
 0.75000   -0.378120   -2.740985   -0.148779
-0.000334   -0.225421   -5.894000
 1.00000   -0.378120   -1.589080   -0.148779
-0.000334   -0.483253   -8.219243

COMB DB-G3-4 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.330599    6.681625    0.229447
 0.000860   0.602886   21.960113
 0.25000    0.330599   18.945200    0.229447
 0.000860   0.323641   53.736239
 0.50000    0.330599   35.090462    0.229447
 0.000860   0.078049   66.573121
 0.75000    0.330599   50.271984    0.229447
 0.000860   0.229108   64.851851
 1.00000    0.330599   66.373352    0.229447
 0.000860   0.449896   23.998143

COMB DB-G3-4 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.442150   -66.938641   -0.180113
-0.000636   -0.463495   -48.749746
 0.25000   -0.442150   -50.824030   -0.180113
-0.000636   -0.241001   -20.635178
 0.50000   -0.442150   -35.644159   -0.180113
-0.000636   -0.037849   -19.933524
 0.75000   -0.442150   -19.498298   -0.180113
-0.000636   -0.271156   -19.885413
 1.00000   -0.442150    -7.218640   -0.180113
-0.000636   -0.555959   -47.337817

COMB DL-G1-1 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.340720    0.433443    0.172948
 0.000239   0.424082    7.750569
 0.25000    0.340720    0.441626    0.172948
 0.000239   0.209173    7.987607
 0.50000    0.340720    0.461057    0.172948
 0.000239   0.027264    8.253379
 0.75000    0.340720    0.482219    0.172948
 0.000239   0.186755    8.581393
 1.00000    0.340720    0.500798    0.172948
 0.000239   0.355823    8.926792

COMB DL-G1-1 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.365384   -0.811950   -0.136226
-0.000730   -0.321889   -3.913758
 0.25000   -0.365384   -0.793370   -0.136226
-0.000730   -0.152182   -3.867002
 0.50000   -0.365384   -0.772208   -0.136226
-0.000730   -0.009952   -3.848367
 0.75000   -0.365384   -0.752770   -0.136226
-0.000730   -0.221382   -3.829891
 1.00000   -0.365384   -0.744572   -0.136226
-0.000730   -0.436426   -3.839715
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4150

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.609137   13.263195    0.248893
 0.000320   0.619474   23.905309
 0.25000    0.609137   26.290288    0.248893
 0.000320   0.328681   64.562067
 0.50000    0.609137   57.224528    0.248893
 0.000320   0.094615   87.897937
 0.75000    0.609137   90.914619    0.248893
 0.000320   0.301992   65.533174
 1.00000    0.609137  120.492436    0.248893
 0.000320   0.539528   25.818418

COMB DL-G1-2 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.582116 -121.062766   -0.205239
-0.000859   -0.511428   -76.176627
 0.25000   -0.582116   -91.484207   -0.205239
-0.000859   -0.257687   -31.184521
 0.50000   -0.582116   -57.794565   -0.205239
-0.000859   -0.045420   -30.875154
 0.75000   -0.582116   -26.847848   -0.205239
-0.000859   -0.339140   -30.892691
 1.00000   -0.582116   -13.797163   -0.205239
-0.000859   -0.647681   -75.749702

COMB DL-G1-3 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.590927    9.904855    0.299282
 0.000549   0.764674   25.244709
 0.25000    0.590927   19.154745    0.299282
 0.000549   0.406071   54.272830
 0.50000    0.590927   41.119611    0.299282
 0.000549   0.099218   71.100307
 0.75000    0.590927   65.041268    0.299282
 0.000549   0.316484   55.587747
 1.00000    0.590927   86.043005    0.299282
 0.000549   0.598333   27.856252

COMB DL-G1-3 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.621772   -86.757097   -0.234890
-0.000987   -0.591347   -58.386083
 0.25000   -0.621772   -65.754804   -0.234890
-0.000987   -0.300926   -26.457508
 0.50000   -0.621772   -41.833466   -0.234890
-0.000987   -0.044698   -26.255936
 0.75000   -0.621772   -19.859711   -0.234890
-0.000987   -0.372694   -26.286521
 1.00000   -0.621772   -10.593099   -0.234890
-0.000987   -0.744628   -58.155502

COMB DL-G1-4 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.582198    8.373720    0.347207
 0.000668   0.894155   24.301275
 0.25000    0.582198   16.051277    0.347207
 0.000668   0.473509   48.511405
 0.50000    0.582198   34.282464    0.347207
 0.000668   0.096585   62.598787
 0.75000    0.582198   54.137821    0.347207
 0.000668   0.353017   49.880812
 1.00000    0.582198   71.569597    0.347207
 0.000668   0.681662   27.053132

COMB DL-G1-4 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.655001   -72.284326   -0.272376
-0.000848   -0.690889   -50.658657
 0.25000   -0.655001   -54.852114   -0.272376
-0.000848   -0.353599   -24.186075
 0.50000   -0.655001   -34.997022   -0.272376
-0.000848   -0.044109   -24.047459
 0.75000   -0.655001   -16.758481   -0.272376
-0.000848   -0.418139   -24.101514
 1.00000   -0.655001    -9.067020   -0.272376
-0.000848   -0.849645   -50.581931
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4151

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.276861    9.252679    0.071131
 0.000167   0.190209   14.079927
 0.25000    0.276861   18.384736    0.071131
 0.000167   0.114875   42.404764
 0.50000    0.276861   40.069794    0.071131
 0.000167   0.057330   58.589583
 0.75000    0.276861   63.686717    0.071131
 0.000167   0.229108   61.887798
 1.00000    0.276861   84.420916    0.071131
 0.000167   0.148843   14.970238

COMB DL-G2-1 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.239008   -84.695109   -0.058252
-0.000185   -0.161354   -51.998168
 0.25000   -0.239008   -63.960391   -0.058252
-0.000185   -0.090368   -20.479691
 0.50000   -0.239008   -40.343783   -0.058252
-0.000185   -0.037842   -20.293311
 0.75000   -0.239008   -18.649979   -0.058252
-0.000185   -0.096105   -20.317636
 1.00000   -0.239008    -9.501383   -0.058252
-0.000185   -0.183720   -51.783840

COMB DL-G2-2 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.307795    9.084505    0.174847
 0.000437   0.470141   19.075748
 0.25000    0.307795   17.799237    0.174847
 0.000437   0.265406   46.299848
 0.50000    0.307795   34.493311    0.174847
 0.000437   0.078297   61.992303
 0.75000    0.307795   61.030966    0.174847
 0.000437   0.167541   47.185546
 1.00000    0.307795   80.817634    0.174847
 0.000437   0.320772   20.837122

COMB DL-G2-2 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.356586   -81.292159   -0.132522
-0.000321   -0.358405   -52.879443
 0.25000   -0.356586   -61.504995   -0.132522
-0.000321   -0.195494   -22.830878
 0.50000   -0.356586   -38.967640   -0.132522
-0.000321   -0.037588   -22.673567
 0.75000   -0.356586   -18.265220   -0.132522
-0.000321   -0.200821   -22.734944
 1.00000   -0.356586    -9.534705   -0.132522
-0.000321   -0.418034   -52.792695

COMB DL-G2-3 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.514187    6.606281    0.270500
 0.000613   0.700798   22.133061
 0.25000    0.514187   12.269630    0.270500
 0.000613   0.372615   39.833186
 0.50000    0.514187   25.717863    0.270500
 0.000613   0.085525   50.189519
 0.75000    0.514187   40.364165    0.270500
 0.000613   0.273664   41.132197
 1.00000    0.514187   53.222712    0.270500
 0.000613   0.527874   24.667586

COMB DL-G2-3 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.560591   -53.896965   -0.210743
-0.000847   -0.533351   -39.068403
 0.25000   -0.560591   -41.038096   -0.210743
-0.000847   -0.273178   -19.539587
 0.50000   -0.560591   -26.391989   -0.210743
-0.000847   -0.037179   -19.436154
 0.75000   -0.560591   -12.938332   -0.210743
-0.000847   -0.320979   -19.474755
 1.00000   -0.560591    -7.264727   -0.210743
-0.000847   -0.657032   -39.006733
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4152

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.531004    5.653183    0.330918
 0.000713   0.859883   21.571419
 0.25000    0.531004   10.409463    0.330918
 0.000713   0.455273   36.586581
 0.50000    0.531004   21.703764    0.330918
 0.000713   0.085292   45.429428
 0.75000    0.531004   34.004245    0.330918
 0.000713   0.327043   37.953755
 1.00000    0.531004   44.803307    0.330918
 0.000713   0.645720   24.283745

COMB DL-G2-4 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.604615   -45.472600   -0.261571
-0.000699   -0.666227   -34.984858
 0.25000   -0.604615   -34.673268   -0.261571
-0.000699   -0.342509   -18.616113
 0.50000   -0.604615   -22.372951   -0.261571
-0.000699   -0.038098   -18.561337
 0.75000   -0.604615   -11.074095   -0.261571
-0.000699   -0.384435   -18.625934
 1.00000   -0.604615    -6.309201   -0.261571
-0.000699   -0.796206   -35.061767

COMB DL-G3-1 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.188299    0.193831    0.164365
 0.000308   0.429021    4.592273
 0.25000    0.188299    0.202014    0.164365
 0.000308   0.224322    4.834559
 0.50000    0.188299    0.221445    0.164365
 0.000308   0.021036    5.070802
 0.75000    0.188299    0.242607    0.164365
 0.000308   0.158435    5.280716
 1.00000    0.188299    0.261186    0.164365
 0.000308   0.328860    5.486460

COMB DL-G3-1 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.245500   -0.415683   -0.137088
-4.72E-06   -0.352830   -3.476744
 0.25000   -0.245500   -0.397104   -0.137088
-4.72E-06   -0.182393   -3.497880
 0.50000   -0.245500   -0.375942   -0.137088
-4.72E-06   -0.010734   -3.547039
 0.75000   -0.245500   -0.356503   -0.137088
-4.72E-06   -0.182499   -3.596415
 1.00000   -0.245500   -0.348306   -0.137088
-4.72E-06   -0.386724   -3.672432

COMB DL-G3-2 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.278678    0.688042    0.273036
 0.000574   0.716044    9.215125
 0.25000    0.278678    0.958076    0.273036
 0.000574   0.376674   10.394840
 0.50000    0.278678    1.599301    0.273036
 0.000574   0.040145   11.230489
 0.75000    0.278678    2.297651    0.273036
 0.000574   0.252340   11.181200
 1.00000    0.278678    2.910759    0.273036
 0.000574   0.524666   10.828529

COMB DL-G3-2 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.406020   -3.229941   -0.219357
-9.86E-05   -0.566724   -7.694244
 0.25000   -0.406020   -2.616817   -0.219357
-9.86E-05   -0.294001   -6.720525
 0.50000   -0.406020   -1.918477   -0.219357
-9.86E-05   -0.019854   -6.782371
 0.75000   -0.406020   -1.276993   -0.219357
-9.86E-05   -0.300881   -6.857700
 1.00000   -0.406020   -1.006470   -0.219357
-9.86E-05   -0.640168   -7.850767
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4153

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.359334    0.817966    0.298509
 0.000723   0.792828   14.113299
 0.25000    0.359334    0.825331    0.298509
 0.000723   0.421567   14.445358
 0.50000    0.359334    0.842819    0.298509
 0.000723   0.057838   14.906923
 0.75000    0.359334    0.861864    0.298509
 0.000723   0.262863   15.611376
 1.00000    0.359334    0.878586    0.298509
 0.000723   0.550633   16.435048

COMB DL-G3-3 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.486067   -1.379490   -0.232064
-0.000304   -0.603280   -8.462907
 0.25000   -0.486067   -1.362768   -0.232064
-0.000304   -0.315461   -8.523859
 0.50000   -0.486067   -1.343723   -0.232064
-0.000304   -0.025750   -8.609396
 0.75000   -0.486067   -1.326228   -0.232064
-0.000304   -0.318808   -8.694852
 1.00000   -0.486067   -1.318850   -0.232064
-0.000304   -0.689663   -8.806118

COMB DL-G3-4 ------------------- MAX

REL DIST         P          V2          V3
               T          M2          M3
 0.00000    0.529577    6.016559    0.328610
 0.000731   0.859182   21.148869
 0.25000    0.529577   11.171752    0.328610
 0.000731   0.458025   37.385776
 0.50000    0.529577   23.413317    0.328610
 0.000731   0.084963   46.902798
 0.75000    0.529577   36.745451    0.328610
 0.000731   0.323839   38.726457
 1.00000    0.529577   48.450241    0.328610
 0.000731   0.643565   23.789513

COMB DL-G3-4 ------------------- MIN

REL DIST         P          V2          V3
               T          M2          M3
 0.00000   -0.610125   -49.081543   -0.263076
-0.000555   -0.676586   -36.996368
 0.25000   -0.610125   -37.376461   -0.263076
-0.000555   -0.350875   -19.265245
 0.50000   -0.610125   -24.044504   -0.263076
-0.000555   -0.038953   -19.216526
 0.75000   -0.610125   -11.798002   -0.263076
```

-0.000555 -0.376677 -19.297150
1.00000 -0.610125 -6.633472 -0.263076
-0.000555 -0.784801 -37.122011

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.403987	11.380411	0.243130
0.000860	0.628834	25.417102	
0.25000	0.403987	33.857603	0.243130
0.000860	0.332753	83.419101	
0.50000	0.403987	63.449312	0.243130
0.000860	0.086190	106.629804	
0.75000	0.403987	91.274637	0.243130
0.000860	0.265711	84.297870	
1.00000	0.403987	120.785896	0.243130
0.000860	0.513763	27.468399	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.442150	-121.297790	-0.202182
-0.001179	-0.509907	-82.618207	
0.25000	-0.442150	-91.762259	-0.202182
-0.001179	-0.260267	-31.421368	
0.50000	-0.442150	-63.939958	-0.202182
-0.001179	-0.048507	-30.469525	
0.75000	-0.442150	-34.347151	-0.202182
-0.001179	-0.296823	-30.712592	
1.00000	-0.442150	-11.840481	-0.202182
-0.001179	-0.336604	-8.136116	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4154

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.609137	13.263195	0.347207
0.000731	0.894155	25.244709	
0.25000	0.609137	26.290288	0.347207
0.000731	0.473509	64.562067	
0.50000	0.609137	57.224528	0.347207
0.000731	0.099218	87.897937	
0.75000	0.609137	90.914619	0.347207
0.000731	0.353017	65.533174	
1.00000	0.609137	120.492436	0.347207
0.000731	0.681662	27.856252	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.655001	-121.062766	-0.272376
-0.000987	-0.690889	-76.176627	
0.25000	-0.655001	-91.484207	-0.272376
-0.000987	-0.353599	-31.184521	
0.50000	-0.655001	-57.794565	-0.272376
-0.000987	-0.045420	-30.875154	
0.75000	-0.655001	-26.847848	-0.272376
-0.000987	-0.418139	-30.892691	
1.00000	-0.655001	-13.797163	-0.272376
-0.000987	-0.849645	-75.749702	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.609137	13.263195	0.347207
0.000860	0.894155	25.417102	
0.25000	0.609137	33.857603	0.347207
0.000860	0.473509	83.419101	
0.50000	0.609137	63.449312	0.347207
0.000860	0.099218	106.629804	
0.75000	0.609137	91.274637	0.347207
0.000860	0.353017	84.297870	
1.00000	0.609137	120.785896	0.347207
0.000860	0.681662	27.856252	

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.655001	-121.297790	-0.272376
-0.001179	-0.690889	-82.618207	
0.25000	-0.655001	-91.762259	-0.272376
-0.001179	-0.353599	-31.421368	
0.50000	-0.655001	-63.939958	-0.272376
-0.001179	-0.048507	-30.875154	
0.75000	-0.655001	-34.347151	-0.272376
-0.001179	-0.418139	-30.892691	
1.00000	-0.655001	-13.797163	-0.272376
-0.001179	-0.849645	-81.361216	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.609137	13.263195	0.347207
0.000860	0.894155	25.417102	
0.25000	0.609137	33.857603	0.347207
0.000860	0.473509	83.419101	
0.50000	0.609137	63.449312	0.347207
0.000860	0.099218	106.629804	
0.75000	0.609137	91.274637	0.347207
0.000860	0.353017	84.297870	
1.00000	0.609137	120.785896	0.347207
0.000860	0.681662	27.856252	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.655001	-121.297790	-0.272376
-0.001179	-0.690889	-82.618207	
0.25000	-0.655001	-91.762259	-0.272376
-0.001179	-0.353599	-31.421368	
0.50000	-0.655001	-63.939958	-0.272376
-0.001179	-0.048507	-30.875154	
0.75000	-0.655001	-34.347151	-0.272376
-0.001179	-0.418139	-30.892691	
1.00000	-0.655001	-13.797163	-0.272376
-0.001179	-0.849645	-81.361216	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4155

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 401 ========== LENGTH = 4.972033

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.243994	0.496683	0.135516
0.000582	0.333309	8.342905	
0.25000	0.243994	0.520817	0.135516
0.000582	0.164856	8.133506	
0.50000	0.243994	0.552564	0.135516
0.000582	0.024930	8.033201	
0.75000	0.243994	0.582414	0.135516
0.000582	0.184354	8.127734	
1.00000	0.243994	0.614073	0.135516
0.000582	0.356672	8.330593	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.187256	-0.608060	-0.138881
-0.000585	-0.334883	-1.957824	
0.25000	-0.187256	-0.576403	-0.138881
-0.000585	-0.162460	-1.743399	
0.50000	-0.187256	-0.546552	-0.138881
-0.000585	-0.005187	-1.647512	
0.75000	-0.187256	-0.514806	-0.138881
-0.000585	-0.172047	-1.805781	
1.00000	-0.187256	-0.490677	-0.138881
-0.000585	-0.340486	-2.017921	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.406453	11.628154	0.183414
0.000760	0.448981	26.734639	
0.25000	0.406453	34.120669	0.183414
0.000760	0.234304	84.689024	
0.50000	0.406453	63.708993	0.183414
0.000760	0.088045	107.385570	
0.75000	0.406453	91.529259	0.183414
0.000760	0.297231	84.671116	
1.00000	0.406453	121.035606	0.183414
0.000760	0.550128	26.700247	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.341374	-121.018175	-0.208476
-0.000757	-0.521130	-81.370768	
0.25000	-0.341374	-91.514317	-0.208476
-0.000757	-0.263834	-30.315465	
0.50000	-0.341374	-63.693175	-0.208476
-0.000757	-0.046896	-29.542158	
0.75000	-0.341374	-34.105306	-0.208476
-0.000757	-0.246731	-30.405656	
1.00000	-0.341374	-11.617176	-0.208476
-0.000757	-0.467299	-81.476495	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.388808	8.478274	0.184448
0.000971	0.468188	27.518803	
0.25000	0.388808	23.791044	0.184448
0.000971	0.248920	66.622228	
0.50000	0.388808	43.934597	0.184448
0.000971	0.088931	81.914018	
0.75000	0.388808	62.874467	0.184448
0.000971	0.277578	66.610714	
1.00000	0.388808	82.962210	0.184448
0.000971	0.527127	27.497119	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.397220	-82.950106	-0.204221
-0.000967	-0.512100	-57.568030	
0.25000	-0.397220	-62.864056	-0.204221
-0.000967	-0.259508	-22.641781	
0.50000	-0.397220	-43.923590	-0.204221
-0.000967	-0.037838	-22.024609	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4156

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	-0.397220	-23.780346	-0.204221
-0.000967	-0.233911	-22.788032	
1.00000	-0.397220	-8.470563	-0.204221
-0.000967	-0.453549	-57.732310	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.402415	7.173638	0.192142
0.000945	0.496849	26.019096	
0.25000	0.402415	19.879978	0.192142
0.000945	0.266400	58.384338	
0.50000	0.402415	36.594842	0.192142
0.000945	0.085510	71.037660	
0.75000	0.402415	52.310904	0.192142
0.000945	0.281437	58.386613	
1.00000	0.402415	68.979457	0.192142
0.000945	0.542638	26.024453	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.424647	-68.977241	-0.212994
-0.000941	-0.556205	-45.985054	
0.25000	-0.424647	-52.310093	-0.212994
-0.000941	-0.272470	-19.848017	
0.50000	-0.424647	-36.593536	-0.212994
-0.000941	-0.034608	-19.298120	
0.75000	-0.424647	-19.878930	-0.212994
-0.000941	-0.234426	-20.019773	
1.00000	-0.424647	-7.175067	-0.212994
-0.000941	-0.463725	-49.104295	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.140698	9.511503	0.030653
0.000217	0.079528	17.446346	
0.25000	0.140698	28.335711	0.030653
0.000217	0.054255	66.090571	
0.50000	0.140698	53.098472	0.030653
0.000217	0.059202	85.159986	
0.75000	0.140698	76.381527	0.030653
0.000217	0.088952	66.081822	
1.00000	0.140698	101.075680	0.030653
0.000217	0.144618	17.429823	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.155431	-101.066647	-0.048927
-0.000218	-0.127543	-66.995158	
0.25000	-0.155431	-76.374577	-0.048927
-0.000218	-0.073290	-24.366701	
0.50000	-0.155431	-53.090788	-0.048927
-0.000218	-0.036173	-23.776498	
0.75000	-0.155431	-28.328408	-0.048927
-0.000218	-0.052133	-24.409851	
1.00000	-0.155431	-9.507870	-0.048927
-0.000218	-0.084034	-67.056224	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.177460	9.140264	0.064736
0.000479	0.181182	22.244873	
0.25000	0.177460	26.661258	0.064736
0.000479	0.112259	67.280758	
0.50000	0.177460	49.709673	0.064736
0.000479	0.075180	84.919638	
0.75000	0.177460	71.380825	0.064736
0.000479	0.117616	67.281386	
1.00000	0.177460	94.365382	0.064736
0.000479	0.219180	22.246956	

COMB DB-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.262776	-94.363090	-0.085289
-0.000479	-0.231072	-63.999075	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4157

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	-0.262776	-71.380471	-0.085289
-0.000479	-0.126216	-24.201886	
0.50000	-0.262776	-49.708637	-0.085289
-0.000479	-0.038224	-23.597950	
0.75000	-0.262776	-26.660576	-0.085289
-0.000479	-0.078508	-24.311360	
1.00000	-0.262776	-9.142998	-0.085289
-0.000479	-0.147358	-64.134805	

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.324033	7.193881	0.150716
0.000910	0.390135	25.560689	
0.25000	0.324033	19.596138	0.150716
0.000910	0.211160	57.017318	
0.50000	0.324033	35.910988	0.150716
0.000910	0.082186	69.313449	
0.75000	0.324033	51.250939	0.150716
0.000910	0.229249	57.010729	
1.00000	0.324033	67.520687	0.150716
0.000910	0.438075	25.548694	

COMB DB-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.395857	-67.512995	-0.170771
-0.000912	-0.430331	-47.410841	
0.25000	-0.395857	-51.244710	-0.170771
-0.000912	-0.219062	-19.068258	
0.50000	-0.395857	-35.904276	-0.170771
-0.000912	-0.032704	-18.542178	
0.75000	-0.395857	-19.589677	-0.170771
-0.000912	-0.186692	-19.221452	
1.00000	-0.395857	-7.189838	-0.170771
-0.000912	-0.364610	-47.584817	

COMB DB-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.367913	6.090823	0.169059
0.000835	0.444058	24.041021	
0.25000	0.367913	16.480338	0.169059
0.000835	0.240940	50.409303	
0.50000	0.367913	30.147477	0.169059
0.000835	0.079358	60.715546	
0.75000	0.367913	42.997932	0.169059
0.000835	0.244296	50.417328	
1.00000	0.367913	56.627205	0.169059
0.000835	0.474756	24.057835	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.430733	-56.629133	-0.187728
-0.000836	-0.474859	-40.818484	
0.25000	-0.430733	-43.001010	-0.187728
-0.000836	-0.242327	-16.999998	
0.50000	-0.430733	-30.150150	-0.187728
-0.000836	-0.030500	-16.524331	
0.75000	-0.430733	-16.483221	-0.187728
-0.000836	-0.199853	-17.177958	
1.00000	-0.430733	-6.095732	-0.187728
-0.000836	-0.401186	-41.022866	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.157535	0.124972	0.070594
8.48E-06	0.191616	4.022780	
0.25000	0.157535	0.149105	0.070594
8.48E-06	0.103832	4.073769	
0.50000	0.157535	0.180852	0.070594
8.48E-06	0.016177	4.102213	
0.75000	0.157535	0.210702	0.070594
8.48E-06	0.083608	4.095578	
1.00000	0.157535	0.242362	0.070594
8.48E-06	0.172183	4.066419	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4158

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.198913	-0.247888	-0.071269
-8.47E-06	-0.182206	-1.796120	
0.25000	-0.198913	-0.216232	-0.071269
-8.47E-06	-0.093605	-1.624510	
0.50000	-0.198913	-0.186381	-0.071269
-8.47E-06	-0.004960	-1.569767	
0.75000	-0.198913	-0.154634	-0.071269
-8.47E-06	-0.072644	-1.701763	
1.00000	-0.198913	-0.130505	-0.071269
-8.47E-06	-0.159680	-1.887630	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.230263	0.681810	0.109694
0.000199	0.301643	8.689492	
0.25000	0.230263	1.405818	0.109694
0.000199	0.166064	10.384685	
0.50000	0.230263	2.358232	0.109694
0.000199	0.032594	11.059590	
0.75000	0.230263	3.253734	0.109694
0.000199	0.139004	10.416800	
1.00000	0.230263	4.203509	0.109694
0.000199	0.285311	8.754863	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.315744	-4.222962	-0.117868
-0.000198	-0.301833	-5.569308	
0.25000	-0.315744	-3.272267	-0.117868
-0.000198	-0.155343	-3.721759	
0.50000	-0.315744	-2.377737	-0.117868
-0.000198	-0.009812	-3.601289	
0.75000	-0.315744	-1.425338	-0.117868
-0.000198	-0.113871	-3.856455	
1.00000	-0.315744	-0.701471	-0.117868
-0.000198	-0.247746	-5.727768	

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.258548	1.303577	0.114976
0.000436	0.322239	14.705766	
0.25000	0.258548	2.454750	0.114976
0.000436	0.181094	17.275125	
0.50000	0.258548	3.969088	0.114976
0.000436	0.050369	18.262318	
0.75000	0.258548	5.392936	0.114976
0.000436	0.142993	17.302652	
1.00000	0.258548	6.903079	0.114976
0.000436	0.294121	14.761952	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.377576	-6.919599	-0.121830
-0.000435	-0.313516	-8.186543	
0.25000	-0.377576	-5.409584	-0.121830
-0.000435	-0.162168	-5.285596	
0.50000	-0.377576	-3.985690	-0.121830
-0.000435	-0.013522	-5.104679	
0.75000	-0.377576	-2.471376	-0.121830
-0.000435	-0.116377	-5.463524	
1.00000	-0.377576	-1.320427	-0.121830
-0.000435	-0.252693	-8.392015	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.355243	6.903331	0.155890
0.000619	0.414830	23.993284	
0.25000	0.355243	19.175266	0.155890
0.000619	0.229205	55.314372	
0.50000	0.355243	35.318681	0.155890
0.000619	0.080851	67.568609	
0.75000	0.355243	50.497442	0.155890
0.000619	0.225891	55.328015	
1.00000	0.355243	66.596130	0.155890
0.000619	0.439358	24.022367	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4159

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.451122	-66.601372	-0.174404
-0.000619	-0.446572	-47.306594	
0.25000	-0.451122	-50.504042	-0.174404
-0.000619	-0.230714	-19.248348	
0.50000	-0.451122	-35.324803	-0.174404
-0.000619	-0.033591	-18.730700	
0.75000	-0.451122	-19.181636	-0.174404
-0.000619	-0.180502	-19.427043	
1.00000	-0.451122	-6.912093	-0.174404
-0.000619	-0.365125	-47.516572	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.343248	0.569531	0.185098
0.000478	0.455729	8.950188	
0.25000	0.343248	0.577720	0.185098
0.000478	0.225689	8.910631	
0.50000	0.343248	0.597150	0.185098
0.000478	0.028866	8.889717	
0.75000	0.343248	0.618311	0.185098
0.000478	0.230781	8.932363	
1.00000	0.343248	0.636890	0.185098
0.000478	0.444045	8.993494	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.394748	-0.645734	-0.171773
-0.000480	-0.409803	-3.883390	
0.25000	-0.394748	-0.627155	-0.171773
-0.000480	-0.196278	-3.852547	
0.50000	-0.394748	-0.605995	-0.171773
-0.000480	-0.009472	-3.849557	
0.75000	-0.394748	-0.586564	-0.171773
-0.000480	-0.234821	-3.847005	
1.00000	-0.394748	-0.578377	-0.171773
-0.000480	-0.464763	-3.872502	

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.626091	13.523377	0.254421
0.000603	0.626186	25.863267	
0.25000	0.626091	26.559714	0.254421
0.000603	0.331902	66.119305	
0.50000	0.626091	57.492160	0.254421
0.000603	0.097293	88.965609	
0.75000	0.626091	91.180577	0.254421
0.000603	0.376372	66.143774	
1.00000	0.626091	120.758512	0.254421
0.000603	0.685657	25.929736	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.614647	-120.765258	-0.263029
-0.000582	-0.645787	-75.765258	
0.25000	-0.614647	-91.187399	-0.263029
-0.000582	-0.322784	-30.929288	
0.50000	-0.614647	-57.501984	-0.263029
-0.000582	-0.044131	-30.673483	
0.75000	-0.614647	-26.567515	-0.263029
-0.000582	-0.345776	-30.916566	
1.00000	-0.614647	-13.533990	-0.263029
-0.000582	-0.662057	-75.776150	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.608841	10.220261	0.257346
0.000784	0.653062	27.893538	
0.25000	0.608841	19.476715	0.257346
0.000784	0.349989	56.342653	
0.50000	0.608841	41.440306	0.257346
0.000784	0.102543	72.529712	
0.75000	0.608841	65.360775	0.257346
0.000784	0.363741	56.399937	
1.00000	0.608841	86.362596	0.257346
0.000784	0.677940	28.020787	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4160

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.650812	-86.376815	-0.263521
-0.000765	-0.650776	-58.164021	
0.25000	-0.650812	-65.375179	-0.263521
-0.000765	-0.327211	-26.338182	
0.50000	-0.650812	-41.456841	-0.263521
-0.000765	-0.042993	-26.166501	
0.75000	-0.650812	-19.491814	-0.263521
-0.000765	-0.331071	-26.345594	
1.00000	-0.650812	-10.237356	-0.263521
-0.000765	-0.649780	-58.211669	

COMB DL-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.601688	8.675352	0.275816
0.000769	0.711194	27.054958	
0.25000	0.601688	16.358357	0.275816
0.000769	0.382159	50.657971	
0.50000	0.601688	34.588487	0.275816
0.000769	0.100301	64.088471	
0.75000	0.601688	54.442857	0.275816
0.000769	0.370313	50.740016	
1.00000	0.601688	71.874703	0.275816
0.000769	0.706829	27.229655	

COMB DL-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.689224	-71.895973	-0.279435
-0.000752	-0.697937	-50.568505	
0.25000	-0.689224	-54.464280	-0.279435
-0.000752	-0.353879	-24.162375	
0.50000	-0.689224	-34.611679	-0.279435
-0.000752	-0.042158	-24.029679	
0.75000	-0.689224	-16.380357	-0.279435

```
-0.000752   -0.338849   -24.188194
1.00000     -0.689224    -8.699009    -0.279435
-0.000752   -0.680105   -50.647481

COMB DL-G2-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.291678     9.378084     0.049879
0.000184    0.127682    14.990027
0.25000     0.291678    18.516622     0.049879
 0.000184   0.082480    43.146847
0.50000     0.291678    40.200422     0.049879
 0.000184   0.058811    59.098685
0.75000     0.291678    63.816171     0.049879
 0.000184   0.113769    43.163834
1.00000     0.291678    84.550452     0.049879
 0.000184   0.187721    15.029982

COMB DL-G2-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.239392   -84.550599    -0.069684
-0.000184  -0.176708   -51.758313
0.25000    -0.239392   -63.816500    -0.069684
-0.000184  -0.094993   -20.334515
0.50000    -0.239392   -40.202854    -0.069684
-0.000184  -0.027937   -20.161298
0.75000    -0.239392   -18.517636    -0.069684
-0.000184  -0.076655   -20.334519
1.00000    -0.239392    -9.381070    -0.069684
-0.000184  -0.140122   -51.791036

COMB DL-G2-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.322001     9.292007     0.099051
0.000397    0.272222    20.836073
0.25000     0.322001    18.012923     0.099051
 0.000397   0.165266    47.691899
0.50000     0.322001    38.705796     0.099051
 0.000397   0.080556    62.956190
0.75000     0.322001    61.242332     0.099051
 0.000397   0.151742    47.746720
1.00000     0.322001    81.029079     0.099051
 0.000397   0.287413    20.957779
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                4161

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.361403   -81.039889    -0.114633
-0.000397  -0.300772   -52.749352
0.25000    -0.361403   -61.253315    -0.114633
-0.000397  -0.162245   -22.773454
0.50000    -0.361403   -38.718788    -0.114633
-0.000397  -0.036245   -22.619834
0.75000    -0.361403   -18.024561    -0.114633
-0.000397  -0.122577   -22.796938
1.00000    -0.361403    -9.305526    -0.114633
-0.000397  -0.243877   -52.827793

COMB DL-G2-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.535619     6.901138     0.211332
0.000746    0.545504    24.716692
0.25000     0.535619    12.568505     0.211332
 0.000746   0.293778    41.845383
0.50000     0.535619    26.015959     0.211332
 0.000746   0.089030    51.575918
0.75000     0.535619    40.661532     0.211332
 0.000746   0.299521    41.911544
1.00000     0.535619    53.520131     0.211332
 0.000746   0.567158    24.856228

COMB DL-G2-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.583465   -53.534749    -0.221861
-0.000748  -0.548065   -39.002171
0.25000    -0.583465   -40.676263    -0.221861
-0.000748  -0.274780   -19.526339
0.50000    -0.583465   -26.031994    -0.221861
-0.000748  -0.035339   -19.430641
0.75000    -0.583465   -12.583662    -0.221861
-0.000748  -0.156228   -19.550050
1.00000    -0.583465    -6.917517    -0.221861
-0.000748  -0.522637   -39.070290

COMB DL-G2-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.556728     5.922484     0.242821
0.000701    0.635543    24.273515
0.25000     0.556728    10.682139     0.242821
 0.000701   0.342683    38.687916
0.50000     0.556728    21.975784     0.242821
 0.000701   0.089158    46.887029
0.75000     0.556728    34.275554     0.242821
 0.000701   0.326312    38.779971
1.00000     0.556728    45.074759     0.242821
 0.000701   0.633808    24.463772

COMB DL-G2-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.631528   -45.096804    -0.252678
-0.000702  -0.632919   -35.033596
0.25000    -0.631528   -34.297794    -0.252678
-0.000702  -0.321272   -18.687792
0.50000    -0.631528   -21.999020    -0.252678
-0.000702  -0.035948   -18.618164
0.75000    -0.631528   -10.704636    -0.252678
-0.000702  -0.285962   -18.729265
1.00000    -0.631528    -5.946007    -0.252678
-0.000702  -0.586347   -35.133888

COMB DL-G3-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.198584     0.223171     0.105363
7.10E-06    0.284699     5.431006
0.25000     0.198584     0.231360     0.105363
7.10E-06    0.148153     5.481853
0.50000     0.198584     0.250790     0.105363
7.10E-06    0.022374     5.524320
0.75000     0.198584     0.271951     0.105363
7.10E-06    0.125830     5.539373
1.00000     0.198584     0.290530     0.105363
7.10E-06    0.262372     5.546362
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                4162

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.252325   -0.305386    -0.109839
-7.08E-06  -0.284264   -3.633088
0.25000    -0.252325   -0.286807    -0.109839
-7.08E-06  -0.147665   -3.622096
0.50000    -0.252325   -0.265648    -0.109839
-7.08E-06  -0.009625   -3.639179
0.75000    -0.252325   -0.246217    -0.109839
-7.08E-06  -0.109162   -3.656617
1.00000    -0.252325   -0.238030    -0.109839
-7.08E-06  -0.239709   -3.702080

COMB DL-G3-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.287481     0.781758     0.171120
0.000171    0.466255    10.745945
0.25000     0.287481     1.051983     0.171120
 0.000171   0.253528    11.578413
0.50000     0.287481     1.693171     0.171120
 0.000171   0.042658    12.060471
0.75000     0.287481     2.391486     0.171120
 0.000171   0.196378    11.674175
1.00000     0.287481     3.004597     0.171120
 0.000171   0.410554    10.938037

COMB DL-G3-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.422449   -3.029667    -0.172806
-0.000170  -0.449172   -7.790454
0.25000    -0.422449   -2.416562    -0.172806
-0.000170  -0.234449   -6.888988
0.50000    -0.422449   -1.718309    -0.172806
-0.000170  -0.018219   -6.911660
0.75000    -0.422449   -1.077079    -0.172806
-0.000170  -0.176153   -6.944688
1.00000    -0.422449   -0.806912    -0.172806
-0.000170  -0.387388   -7.902848

COMB DL-G3-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.378127     0.993666     0.173191
0.000374    0.477530    16.374179
0.25000     0.378127     1.000436     0.173191
 0.000374   0.263777    16.193258
0.50000     0.378127     1.017923     0.173191
 0.000374   0.061485    16.121418
0.75000     0.378127     1.036968     0.173191
 0.000374   0.210124    16.304595
1.00000     0.378127     1.053689     0.173191
 0.000374   0.433475    16.596551

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.497692   -1.080617    -0.180383
-0.000374  -0.465272   -8.747049
0.25000    -0.497692   -1.063896    -0.180383
-0.000374  -0.241693   -8.754738
0.50000    -0.497692   -1.044852    -0.180383
-0.000374  -0.023649   -8.787628
0.75000    -0.497692   -1.027364    -0.180383
-0.000374  -0.177052   -8.820898
1.00000    -0.497692   -1.019996    -0.180383
-0.000374  -0.389936   -8.879488

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.556371     6.261138     0.226599
0.000525    0.599745    23.762227
0.25000     0.556371    11.419990     0.226599
 0.000525   0.328170    39.425823
0.50000     0.556371    23.660845     0.226599
 0.000525   0.089007    48.312732
0.75000     0.556371    36.992316     0.226599
 0.000525   0.308932    39.525019
1.00000     0.556371    48.697153     0.226599
 0.000525   0.602464    23.966855
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                4163

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.629335   -48.719915    -0.242193
-0.000525  -0.612758   -37.074332
0.25000    -0.629335   -37.015181    -0.242193
-0.000525  -0.314067   -19.359890
0.50000    -0.629335   -23.684898    -0.242193
-0.000525  -0.036628   -19.286899
0.75000    -0.629335   -11.443243    -0.242193
-0.000525  -0.261788   -19.406621
1.00000    -0.629335    -6.285503    -0.242193
-0.000525  -0.541408   -37.192352

COMB     DB ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.406453    11.628154     0.192142
 0.000971   0.496849    27.518803
0.25000     0.406453    34.120669     0.192142
 0.000971   0.266400    84.689024
0.50000     0.406453    63.708993     0.192142
 0.000971   0.088931   107.385570
0.75000     0.406453    91.529259     0.192142
 0.000971   0.297231    84.671116
1.00000     0.406453   121.035606     0.192142
 0.000971   0.550128    27.497119

COMB     DB ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.451122  -121.018175    -0.212994
-0.000967  -0.536205   -81.370768
0.25000    -0.451122   -91.514317    -0.212994
-0.000967  -0.272470   -30.315465
0.50000    -0.451122   -63.693175    -0.212994
-0.000967  -0.046896   -29.542158
0.75000    -0.451122   -34.105306    -0.212994
-0.000967  -0.246731   -30.405656
1.00000    -0.451122   -11.617176    -0.212994
-0.000967  -0.467299   -81.476495

COMB     DL ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.626091    13.523377     0.275816
 0.000784   0.711194    27.893538
0.25000     0.626091    26.559714     0.275816
 0.000784   0.382159    84.689024
0.50000     0.626091    57.492160     0.275816
 0.000784   0.102543    88.965609
0.75000     0.626091    91.180577     0.275816
 0.000784   0.376372    66.143774
1.00000     0.626091   120.758512     0.275816
 0.000784   0.706829    28.020787

COMB     DL ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.689224  -120.765076    -0.279435
-0.000765  -0.697937   -75.765258
0.25000    -0.689224   -91.187999    -0.279435
-0.000765  -0.353879   -30.929288
0.50000    -0.689224   -57.501984    -0.279435
-0.000765  -0.044131   -30.673483
0.75000    -0.689224   -26.567515    -0.279435
-0.000765  -0.345976   -30.911666
1.00000    -0.689224   -13.533990    -0.279435
-0.000765  -0.680105   -75.776150

COMB     CAR ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.626091    13.523377     0.275816
 0.000971   0.711194    27.893538
0.25000     0.626091    34.120669     0.275816
 0.000971   0.382159    84.689024
0.50000     0.626091    63.708993     0.275816
 0.000971   0.102543   107.385570
0.75000     0.626091    91.529259     0.275816
 0.000971   0.376372    84.671116
1.00000     0.626091   121.035606     0.275816
 0.000971   0.706829    28.020787
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                4164

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.689224  -121.018175    -0.279435
-0.000967  -0.697937   -81.370768
0.25000    -0.689224   -91.514317    -0.279435
-0.000967  -0.353879   -30.929288
0.50000    -0.689224   -63.693175    -0.279435
-0.000967  -0.046896   -30.673483
0.75000    -0.689224   -34.105306    -0.279435
-0.000967  -0.345976   -30.911666
1.00000    -0.689224   -13.533990    -0.279435
-0.000967  -0.680105   -81.476495

COMB   DESIGN ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.626091    13.523377     0.275816
 0.000971   0.711194    27.893538
0.25000     0.626091    34.120669     0.275816
 0.000971   0.382159    84.689024
0.50000     0.626091    63.708993     0.275816
 0.000971   0.102543   107.385570
0.75000     0.626091    91.529259     0.275816
 0.000971   0.376372    84.671116
1.00000     0.626091   121.035606     0.275816
 0.000971   0.706829    28.020787

COMB   DESIGN ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.689224  -121.018175    -0.279435
-0.000967  -0.697937   -81.370768
0.25000    -0.689224   -91.514317    -0.279435
-0.000967  -0.353879   -30.929288
0.50000    -0.689224   -63.693175    -0.279435
-0.000967  -0.046896   -30.673483
0.75000    -0.689224   -34.105306    -0.279435
-0.000967  -0.345976   -30.911666
1.00000    -0.689224   -13.533990    -0.279435
-0.000967  -0.680105   -81.476495

ELEM      402 ================== LENGTH
=     4.973005

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.234071     0.633970     0.141571
0.000845    0.350026     8.358709
0.25000     0.234071     0.658119     0.141571
0.000845    0.174035     7.932236
0.50000     0.234071     0.689870     0.141571
0.000845    0.024063     7.604959
0.75000     0.234071     0.719722     0.141571
0.000845    0.207345     7.465277
1.00000     0.234071     0.751411     0.141571
0.000845    0.404912     7.444982

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.212036   -0.464952    -0.159195
-0.000277  -0.387189   -2.018065
0.25000    -0.212036   -0.433291    -0.159195
-0.000277  -0.189547   -2.137792
0.50000    -0.212036   -0.403436    -0.159195
-0.000277  -0.007125   -2.311842
0.75000    -0.212036   -0.371686    -0.159195
-0.000277  -0.177819   -2.487223
1.00000    -0.212036   -0.347570    -0.159195
-0.000277  -0.354026   -2.716632

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.398812    11.848762     0.195834
 0.001058   0.482800    26.738539
0.25000     0.398812    34.355755     0.195834
 0.001058   0.239324    84.352960
0.50000     0.398812    63.947781     0.195834
 0.001058   0.016442   106.674707
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                4165

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
0.75000     0.398812    91.769778     0.195834
 0.001058   0.346187    83.459706
1.00000     0.398812   121.303537     0.195834
 0.001058   0.649256    25.169058

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.361486  -120.774725    -0.250409
-0.000409  -0.630677   -81.470786
0.25000    -0.361486   -91.266319    -0.250409
-0.000409  -0.319854   -30.835563
0.50000    -0.361486   -63.441786    -0.250409
-0.000409  -0.009963   -30.590290
0.75000    -0.361486   -33.851156    -0.250409
-0.000409  -0.247944   -31.544647
1.00000    -0.361486   -11.374580    -0.250409
-0.000409  -0.491085   -82.741100

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.384028     8.784157     0.182516
0.001184    0.452786    27.532770
0.25000     0.384028    24.106782     0.182516
 0.001184   0.225998    66.155454
0.50000     0.384028    44.252856     0.182516
 0.001184   0.086553    80.947422
0.75000     0.384028    63.193904     0.182516
 0.001184   0.351888    65.046975
1.00000     0.384028    83.300310     0.182516
 0.001184   0.655542    25.478302

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.412554   -82.636849    -0.249242
-0.000689  -0.608662   -57.726358
0.25000    -0.412554   -62.547703    -0.249242
-0.000689  -0.299659   -23.433146
0.50000    -0.412554   -43.604928    -0.249242
-0.000689  -0.042273   -23.445174
0.75000    -0.412554   -23.459805    -0.249242
-0.000689  -0.229649   -24.273922
1.00000    -0.412554    -8.157887    -0.249242
-0.000689  -0.454867   -59.307215

COMB DB-G1-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.401479     7.495871     0.176739
0.001016    0.442061    26.047240
0.25000     0.401479    20.210390     0.176739
 0.001016   0.222470    57.899657
0.50000     0.401479    36.927345     0.176739
 0.001016   0.082877    70.040999
0.75000     0.401479    52.644384     0.176739
 0.001016   0.337309    56.769005
1.00000     0.401479    69.328423     0.176739
 0.001016   0.636757    23.922593

COMB DB-G1-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.439608   -68.670000    -0.245004
-0.000819  -0.602150   -49.096989
0.25000    -0.439608   -52.000283    -0.245004
-0.000819  -0.298255   -20.720745
0.50000    -0.439608   -36.281810    -0.245004
-0.000819  -0.039484   -20.610551
0.75000    -0.439608   -19.565645    -0.245004
-0.000819  -0.219153   -21.578062
1.00000    -0.439608    -6.868308    -0.245004
-0.000819  -0.436900   -50.728068

COMB DB-G2-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.142711     9.615416     0.038596
0.000217    0.093269    17.437522
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                4166

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
0.25000     0.142711    28.451740     0.038596
 0.000217   0.045244    65.925271
0.50000     0.142711    53.217600     0.038596
 0.000217   0.058283    84.816864
0.75000     0.142711    76.502103     0.038596
 0.000217   0.125042    65.464991
1.00000     0.142711   101.219198     0.038596
 0.000217   0.216765    16.683800

COMB DB-G2-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.146438  -100.951975    -0.079288
-0.000207  -0.206654   -67.050571
0.25000    -0.146438   -76.256099    -0.079288
-0.000207  -0.108323   -24.562829
0.50000    -0.146438   -52.969472    -0.079288
-0.000207  -0.037642   -24.246695
0.75000    -0.146438   -28.204782    -0.079288
-0.000207  -0.050950   -24.934484
1.00000    -0.146438    -9.393913    -0.079288
-0.000207  -0.098656   -67.670271

COMB DB-G2-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.184522     9.347669     0.050315
0.000364    0.127778    22.251621
0.25000     0.184522    26.879939     0.050315
 0.000364   0.065257    66.970339
0.50000     0.184522    49.931239     0.050315
 0.000364   0.073297    84.276547
0.75000     0.184522    71.603739     0.050315
 0.000364   0.169903    66.182813
1.00000     0.184522    94.609650     0.050315
 0.000364   0.298853    20.862258

COMB DB-G2-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.254118   -94.148596    -0.109108
-0.000531  -0.271251   -64.127196
0.25000    -0.254118   -71.162434    -0.109108
-0.000531  -0.136196   -24.705345
0.50000    -0.254118   -49.487959    -0.109108
-0.000531  -0.041354   -24.535527
0.75000    -0.254118   -26.437747    -0.109108
-0.000531  -0.062719   -24.725131
1.00000    -0.254118    -8.929169    -0.109108
-0.000531  -0.122490   -65.201718

COMB DB-G2-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.327663     7.497215     0.142789
0.000992    0.355780    25.572823
0.25000     0.327663    19.907454     0.142789
 0.000992   0.178246    56.551271
0.50000     0.327663    36.224345     0.142789
 0.000992   0.079709    68.371947
0.75000     0.327663    51.565251     0.142789
 0.000992   0.296731    55.481398
1.00000     0.327663    67.850014     0.142789
 0.000992   0.551902    23.571121

COMB DB-G2-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.400632   -67.205820    -0.209405
-0.000740  -0.509644   -47.578394
0.25000    -0.400632   -50.935037    -0.209405
-0.000740  -0.250047   -19.859789
0.50000    -0.400632   -35.597733    -0.209405
-0.000740  -0.037231   -19.925949
0.75000    -0.400632   -19.276612    -0.209405
-0.000740  -0.179842   -20.653620
1.00000    -0.400632    -6.883144    -0.209405
-0.000740  -0.355007   -49.084515
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<               MOVING          LOAD              >
                                4167

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.375134     6.408145     0.145542
0.000821    0.366493    24.069260
0.25000     0.375134    16.804347     0.145542
 0.000821   0.185738    49.927964
0.50000     0.375134    30.473197     0.145542
 0.000821   0.076670    59.740886
0.75000     0.375134    43.324451     0.145542
 0.000821   0.293701    48.850353
1.00000     0.375134    56.966386     0.145542
 0.000821   0.554673    22.020859

COMB DB-G2-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.436141   -56.355725    -0.213380
-0.000857  -0.523374   -41.014614
0.25000    -0.436141   -42.725501    -0.213380
-0.000857  -0.258704   -17.868447
0.50000    -0.436141   -29.873075    -0.213380
-0.000857  -0.035453   -17.997976
0.75000    -0.436141   -16.204871    -0.213380
```

```
-0.000857   -0.178707   -18.681661
1.00000   -0.436141   -5.822718   -0.213380
-0.000857   -0.357574   -42.572657

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.171031   0.214319   0.043081
4.92E-06   0.113487   4.052224
0.25000   0.171031   0.238468   0.043081
4.92E-06   0.060159   3.945335
0.50000   0.171031   0.270219   0.043081
4.92E-06   0.015216   3.818039
0.75000   0.171031   0.300071   0.043081
4.92E-06   0.073434   3.654271
1.00000   0.171031   0.331760   0.043081
4.92E-06   0.150121   3.469562

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.198200   -0.237593   -0.061686
-0.000358   -0.156678   -1.882739
0.25000   -0.198200   -0.205931   -0.061686
-0.000358   -0.079984   -1.941778
0.50000   -0.198200   -0.176076   -0.061686
-0.000358   -0.006626   -2.055073
0.75000   -0.198200   -0.144327   -0.061686
-0.000358   -0.047610   -2.169751
1.00000   -0.198200   -0.120210   -0.061686
-0.000358   -0.100965   -2.338336

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.248610   0.861689   0.069922
0.000101   0.183536   8.735354
0.25000   0.248610   1.586163   0.069922
0.000101   0.096852   10.140501
0.50000   0.248610   2.538696   0.069922
0.000101   0.030827   10.539298
0.75000   0.248610   3.434254   0.069922
0.000101   0.122661   9.580184
1.00000   0.248610   4.384911   0.069922
0.000101   0.249833   7.630563

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.317111   -4.135868   -0.102479
-0.000681   -0.260888   -5.720465
0.25000   -0.317111   -3.186027   -0.102479
-0.000681   -0.133479   -4.292411
0.50000   -0.317111   -2.290387   -0.102479
-0.000681   -0.012967   -4.486688
0.75000   -0.317111   -1.337899   -0.102479
-0.000681   -0.077953   -4.719592
1.00000   -0.317111   -0.614404   -0.102479
-0.000681   -0.164544   -6.569727
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4168

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.276120   1.571867   0.071600
0.000335   0.187799   14.749220
0.25000   0.276120   2.723781   0.071600
0.000335   0.098979   16.884382
0.50000   0.276120   4.238308   0.071600
0.000335   0.047878   17.455732
0.75000   0.276120   5.662245   0.071600
0.000335   0.172929   16.037879
1.00000   0.276120   7.173790   0.071600
0.000335   0.330401   13.086863

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.371966   -6.744323   -0.127523
-0.000852   -0.306518   -8.383690
0.25000   -0.371966   -5.234075   -0.127523
-0.000852   -0.148515   -6.084844
0.50000   -0.371966   -3.810008   -0.127523
-0.000852   -0.017958   -6.365263
0.75000   -0.371966   -2.295552   -0.127523
-0.000852   -0.083096   -6.707080
1.00000   -0.371966   -1.145195   -0.127523
-0.000852   -0.170020   -9.620294

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.370054   7.207473   0.124961
0.000635   0.317126   24.024408
0.25000   0.370054   19.487307   0.124961
0.000635   0.161946   54.861734
0.50000   0.370054   35.632742   0.124961
0.000635   0.078156   66.632504
0.75000   0.370054   50.812447   0.124961
0.000635   0.268713   53.814403
1.00000   0.370054   66.926092   0.124961
0.000635   0.505385   22.055362

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.449199   -66.364400   -0.194347
-0.000859   -0.480617   -47.506672
0.25000   -0.449199   -50.264589   -0.194347
-0.000859   -0.239583   -20.083343
0.50000   -0.449199   -35.083499   -0.194347
-0.000859   -0.038400   -20.152993
0.75000   -0.449199   -18.938826   -0.194347
-0.000859   -0.151608   -20.877183
1.00000   -0.449199   -6.675587   -0.194347
-0.000859   -0.304589   -49.013457

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.340239   0.735588   0.199975
0.000744   0.488285   9.037921
0.25000   0.340239   0.743787   0.199975
0.000744   0.324616   8.717324
0.50000   0.340239   0.763222   0.199975
0.000744   0.027790   8.413831
0.75000   0.340239   0.784387   0.199975
0.000744   0.281853   8.172533
1.00000   0.340239   0.802966   0.199975
0.000744   0.543802   7.959442

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.402799   -0.510598   -0.210736
-0.000241   -0.504056   -3.920496
0.25000   -0.402799   -0.492019   -0.210736
-0.000241   -0.242129   -3.908018
0.50000   -0.402799   -0.470861   -0.210736
-0.000241   -0.010680   -3.923757
0.75000   -0.402799   -0.451428   -0.210736
-0.000241   -0.256728   -3.939660
1.00000   -0.402799   -0.443245   -0.210736
-0.000241   -0.505167   -3.983890
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4169

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.627268   13.788916   0.270299
0.000888   0.656369   25.989529
0.25000   0.627268   26.841658   0.270299
0.000888   0.341087   65.776112
0.50000   0.627268   57.782162   0.270299
0.000888   0.095072   88.177569
0.75000   0.627268   91.476288   0.270299
0.000888   0.465685   64.901125
1.00000   0.627268   121.053985   0.270299
0.000888   0.857900   24.257606

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.627114   -120.499094   -0.330143
-0.000322   -0.805076   -75.831351
0.25000   -0.627114   -90.921427   -0.330143
-0.000322   -0.400423   -31.033926
0.50000   -0.627114   -57.238001   -0.330143
-0.000322   -0.046305   -30.938163
0.75000   -0.627114   -26.299492   -0.330143
-0.000322   -0.372360   -31.299435
1.00000   -0.627114   -13.273376   -0.330143
-0.000322   -0.706590   -76.307448

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.608021   10.574563   0.254454
0.001014   0.622228   26.072997
0.25000   0.608021   19.842671   0.254454
0.001014   0.321774   55.900516
0.50000   0.608021   41.811984   0.254454
0.001014   0.099516   71.483956
0.75000   0.608021   65.736506   0.254454
0.001014   0.470605   54.743734
1.00000   0.608021   86.738157   0.254454
0.001014   0.864284   25.769762

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.660153   -86.058688   -0.328050
-0.000551   -0.787198   -58.257019
0.25000   -0.660153   -65.057058   -0.328050
-0.000551   -0.384795   -26.451585
0.50000   -0.660153   -41.140133   -0.328050
-0.000551   -0.045524   -26.386624
0.75000   -0.660153   -19.177334   -0.328050
-0.000551   -0.348346   -26.646319
1.00000   -0.660153   -9.923040   -0.328050
-0.000551   -0.661948   -58.607307

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.608940   9.041054   0.243621
0.000870   0.606899   27.261537
0.25000   0.608940   16.733727   0.243621
0.000870   0.317569   50.201045
0.50000   0.608940   34.488606   0.243621
0.000870   0.096905   63.010166
0.75000   0.608940   54.826341   0.243621
0.000870   0.444985   49.027227
1.00000   0.608940   72.258046   0.243621
0.000870   0.828510   24.894023

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.702685   -71.585011   -0.318544
-0.000669   -0.773514   -50.671265
0.25000   -0.702685   -54.153324   -0.318544
-0.000669   -0.382238   -24.262796
0.50000   -0.702685   -34.301895   -0.318544
-0.000669   -0.044855   -24.199492
0.75000   -0.702685   -16.068192   -0.318544
-0.000669   -0.322041   -24.405631
1.00000   -0.702685   -8.391211   -0.318544
-0.000669   -0.621539   -50.924336
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4170

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.297776   9.498698   0.049903
0.000184   0.118604   15.041304
0.25000   0.297776   18.648735   0.049903
0.000184   0.070966   42.987075
0.50000   0.297776   40.338184   0.049903
0.000184   0.057636   58.730890
0.75000   0.297776   63.957936   0.049903
0.000184   0.158394   42.585128
1.00000   0.297776   84.692050   0.049903
0.000184   0.270522   14.267223

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.245141   -84.421596   -0.100790
-0.000168   -0.247748   -51.793222
0.25000   -0.245141   -63.687503   -0.100790
-0.000168   -0.126654   -20.379654
0.50000   -0.245141   -40.075252   -0.100790
-0.000168   -0.028821   -20.302001
0.75000   -0.245141   -18.387202   -0.100790
-0.000168   -0.084845   -20.544849
1.00000   -0.245141   -9.255829   -0.100790
-0.000168   -0.145260   -52.085109

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.329888   9.519720   0.067629
0.000321   0.171607   20.960590
0.25000   0.329888   18.251611   0.067629
0.000321   0.102487   47.395230
0.50000   0.329888   38.949875   0.067629
0.000321   0.078270   62.267749
0.75000   0.329888   61.490230   0.067629
0.000321   0.212314   46.655016
1.00000   0.329888   81.276817   0.067629
0.000321   0.366107   19.479747

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.365877   -80.827407   -0.135407
-0.000437   -0.329091   -52.818996
0.25000   -0.365877   -61.040839   -0.135407
-0.000437   -0.166265   -22.835439
0.50000   -0.365877   -38.507643   -0.135407
-0.000437   -0.037674   -22.755800
0.75000   -0.365877   -17.810713   -0.135407
-0.000437   -0.105875   -22.982212
1.00000   -0.365877   -9.096634   -0.135407
-0.000437   -0.186052   -53.075656

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.542683   7.243553   0.193299
0.000863   0.477312   24.891280
0.25000   0.542683   12.918052   0.193299
0.000863   0.247533   41.430347
0.50000   0.542683   26.369008   0.193299
0.000863   0.086076   50.766835
0.75000   0.542683   41.017064   0.193299
0.000863   0.389501   40.302203
1.00000   0.542683   53.875559   0.193299
0.000863   0.716117   22.672113

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.592844   -53.240458   -0.270815
-0.000615   -0.647210   -39.095769
0.25000   -0.592844   -40.381976   -0.270815
-0.000615   -0.314528   -19.622802
0.50000   -0.592844   -25.738572   -0.270815
-0.000615   -0.037755   -19.582910
0.75000   -0.592844   -12.288483   -0.270815
-0.000615   -0.262251   -19.741941
1.00000   -0.592844   -6.625559   -0.270815
-0.000615   -0.499552   -39.310659
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4171

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.570737   6.280091   0.195492
0.000713   0.493536   24.479688
0.25000   0.570737   11.045736   0.195492
0.000713   0.259326   38.262024
0.50000   0.570737   22.342324   0.195492
0.000713   0.085781   45.838215
0.75000   0.570737   34.644278   0.195492
0.000713   0.383969   37.116702
1.00000   0.570737   45.443296   0.195492
0.000713   0.720846   22.179982

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.645036   -44.817862   -0.277839
-0.000713   -0.674273   -35.138170
0.25000   -0.645036   -34.018855   -0.277839
-0.000713   -0.332565   -18.772608
0.50000   -0.645036   -21.720808   -0.277839
-0.000713   -0.038574   -18.727605
0.75000   -0.645036   -10.422948   -0.277839
-0.000713   -0.250959   -18.849810
1.00000   -0.645036   -5.669025   -0.277839
-0.000713   -0.491590   -35.272686

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.214385   0.330405   0.056296
4.73E-06   0.156283   5.525513
0.25000   0.214385   0.338604   0.056296
4.73E-06   0.085778   5.371237
0.50000   0.214385   0.358039   0.056296
4.73E-06   0.021289   5.212375
0.75000   0.214385   0.379204   0.056296
4.73E-06   0.100269   5.027379
1.00000   0.214385   0.397783   0.056296
4.73E-06   0.209842   4.836046

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.259711   -0.260644   -0.087535
-0.000307   -0.225900   -3.674449
0.25000   -0.259711   -0.242065   -0.087535
-0.000307   -0.014385   -3.631892
0.50000   -0.259711   -0.220907   -0.087535
-0.000307   -0.010791   -3.615534
0.75000   -0.259711   -0.201473   -0.087535
-0.000307   -0.054770   -3.599254
1.00000   -0.259711   -0.193291   -0.087535
-0.000307   -0.124722   -3.611020

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.312462   0.977226   0.089537
9.91E-05   0.249276   10.906417
0.25000   0.312462   1.247791   0.089537
9.91E-05   0.138565   11.348415
0.50000   0.312462   1.889146   0.089537
9.91E-05   0.040368   11.486318
0.75000   0.312462   2.587580   0.089537
9.91E-05   0.160786   10.739281
1.00000   0.312462   3.200685   0.089537
9.91E-05   0.327322   9.647339

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.434673   -2.916475   -0.135060
-0.000571   -0.348394   -7.862057
0.25000   -0.434673   -2.303371   -0.135060
-0.000571   -0.181416   -6.916189
0.50000   -0.434673   -1.605159   -0.135060
-0.000571   -0.019943   -6.924459
0.75000   -0.434673   -0.963845   -0.135060
-0.000571   -0.092417   -6.918678
1.00000   -0.434673   -0.693832   -0.135060
-0.000571   -0.201875   -7.838378
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4172

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.399221   1.284896   0.094827
0.000304   0.258320   16.573623
0.25000   0.399221   1.292275   0.094827
0.000304   0.141786   15.859547
0.50000   0.399221   1.309767   0.094827
0.000304   0.058179   15.265393
0.75000   0.399221   1.328815   0.094827
0.000304   0.222295   14.913820
1.00000   0.399221   1.345536   0.094827
0.000304   0.429239   14.691661

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.507687   -0.890752   -0.167826
-0.000721   0.412402   -8.843613
0.25000   -0.507687   -0.674031   -0.167826
-0.000721   -0.204848   -8.797700
0.50000   -0.507687   -0.854989   -0.167826
-0.000721   -0.025930   -8.777516
0.75000   -0.507687   -0.837499   -0.167826
-0.000721   -0.106275   -8.757416
1.00000   -0.507687   -0.830135   -0.167826
-0.000721   -0.221875   -8.762698

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.577203   6.602788   0.166491
0.000565   0.427084   23.968987
0.25000   0.577203   11.768132   0.166491
0.000565   0.229417   39.020439
0.50000   0.577203   24.012176   0.166491
0.000565   0.085576   47.306079
0.75000   0.577203   37.345906   0.166491
0.000565   0.351832   37.903241
1.00000   0.577203   49.050648   0.166491
0.000565   0.661861   21.762018

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.642783   -48.462318   -0.256427
-0.000731   -0.627649   -37.179959
0.25000   -0.642783   -36.757588   -0.256427
-0.000731   -0.312715   -19.434476
0.50000   -0.642783   -23.428092   -0.256427
-0.000731   -0.039300   -19.378624
0.75000   -0.642783   -11.184838   -0.256427
-0.000731   -0.211356   -19.503816
1.00000   -0.642783   -6.030030   -0.256427
-0.000731   -0.415808   -37.297004

COMB      DB ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.401479   11.848762   0.195834
0.001184   0.482800   27.532770
0.25000   0.401479   34.355755   0.195834
0.001184   0.239324   84.352960
0.50000   0.401479   63.947781   0.195834
0.001184   0.086553   106.674707
0.75000   0.401479   91.769778   0.195834
0.001184   0.351888   83.459706
1.00000   0.401479   121.303537   0.195834
0.001184   0.655542   25.478302

COMB      DB ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.449199   -120.774725   -0.250409
-0.000859   -0.805077   -81.470786
0.25000   -0.449199   -91.266319   -0.250409
-0.000859   -0.319654   -30.835563
0.50000   -0.449199   -63.441786   -0.250409
-0.000859   -0.049963   -30.590290
0.75000   -0.449199   -33.851156   -0.250409
-0.000859   -0.247944   -31.544647
1.00000   -0.449199   -11.374580   -0.250409
-0.000859   -0.491085   -82.741100
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4173

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.627268   13.788916   0.270299
0.001014   0.656369   28.072997
0.25000   0.627268   26.841658   0.270299
0.001014   0.341087   65.776112
0.50000   0.627268   57.782162   0.270299
0.001014   0.099516   88.177569
0.75000   0.627268   91.476288   0.270299
0.001014   0.470605   64.901125
1.00000   0.627268   121.053985   0.270299
0.001014   0.864284   25.769762

COMB      DL ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.702685   -120.499094   -0.330143
-0.000731   -0.805076   -75.831351
0.25000   -0.702685   -90.921427   -0.330143
-0.000731   -0.400423   -31.033926
0.50000   -0.702685   -57.238001   -0.330143
-0.000731   -0.046305   -30.938163
0.75000   -0.702685   -26.299492   -0.330143
-0.000731   -0.372360   -31.299435
1.00000   -0.702685   -13.273376   -0.330143
-0.000731   -0.706590   -76.307448

COMB      CAR ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.627268   13.788916   0.270299
0.001184   0.656369   28.072997
0.25000   0.627268   34.355755   0.270299
0.001184   0.341087   84.352960
0.50000   0.627268   63.947781   0.270299
0.001184   0.099516   106.674707
0.75000   0.627268   91.769778   0.270299
0.001184   0.470605   83.459706
1.00000   0.627268   121.303537   0.270299
0.001184   0.864284   25.769762

COMB      CAR ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.702685   -120.774725   -0.330143
-0.000859   -0.805076   -81.470786
0.25000   -0.702685   -91.266319   -0.330143
-0.000859   -0.400423   -31.033926
0.50000   -0.702685   -63.441786   -0.330143
-0.000859   -0.049963   -30.938163
0.75000   -0.702685   -33.851156   -0.330143
-0.000859   -0.372360   -31.544647
1.00000   -0.702685   -13.273376   -0.330143
-0.000859   -0.706590   -82.741100

COMB  DESIGN ---------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000   0.627268   13.788916   0.270299
0.001184   0.656369   28.072997
0.25000   0.627268   34.355755   0.270299
0.001184   0.341087   84.352960
0.50000   0.627268   63.947781   0.270299
0.001184   0.099516   106.674707
0.75000   0.627268   91.769778   0.270299
0.001184   0.470605   83.459706
1.00000   0.627268   121.303537   0.270299
0.001184   0.864284   25.769762

COMB  DESIGN ---------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.702685   -120.774725   -0.330143
-0.000859   -0.805076   -81.470786
0.25000   -0.702685   -91.266319   -0.330143
-0.000859   -0.400423   -31.033926
0.50000   -0.702685   -63.441786   -0.330143
-0.000859   -0.049963   -30.938163
0.75000   -0.702685   -33.851156   -0.330143
-0.000859   -0.372360   -31.544647
1.00000   -0.702685   -13.273376   -0.330143
-0.000859   -0.706590   -82.741100
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                    Page
<              MOVING              LOAD              >
                                    4174

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 ELEM      403 ========== LENGTH =    4.973103

COMB DB-G1-1 ---------- MAX
```

```
REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.222825   0.907942   0.144026
0.001079  0.357922   7.475517
0.25000   0.222825   0.932111   0.144026
0.001079  0.178858   6.585705
0.50000   0.222825   0.963883   0.144026
0.001079  0.017831   5.738226
0.75000   0.222825   0.993742   0.144026
0.001079  0.220076   5.036304
1.00000   0.222825   1.025458   0.144026
0.001079  0.435155   4.493916

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.215210  -0.262847  -0.173159
-6.83E-06  -0.426138  -2.721306
0.25000  -0.215210  -0.231246  -0.173159
-6.83E-06  -0.210939  -2.653589
0.50000  -0.215210  -0.201368  -0.173159
-6.83E-06  -0.007768  -2.639966
0.75000  -0.215210  -0.169605  -0.173159
-6.83E-06  -0.179269  -2.627449
1.00000  -0.215210  -0.145572  -0.173159
-6.83E-06  -0.358332  -2.669334

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.386496  12.342610   0.201396
 0.001392  0.499937  25.214506
0.25000   0.386496  34.868457   0.201396
 0.001392  0.249525  82.032097
0.50000   0.386496  64.480050   0.201396
 0.001392  0.075730 103.523477
0.75000   0.386496  92.308451   0.201396
 0.001392  0.373490  78.983254
1.00000   0.386496 121.867807   0.201396
 0.001392  0.710368  20.162654

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.358002 -120.256331  -0.281540
-5.96E-05  -0.715711  -82.739460
0.25000  -0.358002  -90.804219  -0.281540
-5.96E-05  -0.365822  -31.970883
0.50000  -0.358002  -62.958278  -0.281540
-5.96E-05  -0.052843  -31.617461
0.75000  -0.358002  -33.355261  -0.281540
-5.96E-05  -0.251225  -32.296215
1.00000  -0.358002  -10.956115  -0.281540
-5.96E-05  -0.501621  -83.676526

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.372012   9.422588   0.188353
0.001385  0.466668  25.527982
0.25000   0.372012  24.758049   0.188353
 0.001385  0.232439  63.113153
0.50000   0.372012  44.917444   0.188353
 0.001385  0.072161  76.802831
0.75000   0.372012  63.862852   0.188353
 0.001385  0.403482  59.414845
1.00000   0.372012  83.986684   0.188353
 0.001385  0.770370  18.923943

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.399867  -81.979587  -0.302628
-0.000405  -0.752825  -59.309585
0.25000  -0.399867  -61.928766  -0.302628
-0.000405  -0.377023  -24.702460
0.50000  -0.399867  -42.971417  -0.302628
-0.000405  -0.044864  -24.417670
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4175

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.75000  -0.399867  -22.817860  -0.302628
-0.000405  -0.241112  -24.835579
1.00000  -0.399867  -7.568656  -0.302628
-0.000405  -0.473876  -59.770803

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.391620   8.153035   0.176726
0.001154  0.439376  23.964927
0.25000   0.391620  20.878205   0.176726
 0.001154  0.219619  54.770873
0.50000   0.391620  37.606213   0.176726
 0.001154  0.067660  65.798854
0.75000   0.391620  53.326871   0.176726
 0.001154  0.376794  51.083686
1.00000   0.391620  70.025370   0.176726
 0.001154  0.724266  17.271033

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.429434  -68.099405  -0.285714
-0.000713  -0.711731  -50.730756
0.25000  -0.429434  -51.461489  -0.285714
-0.000713  -0.356863  -21.972254
0.50000  -0.429434  -35.730923  -0.285714
-0.000713  -0.041883  -21.693988
0.75000  -0.429434  -19.007759  -0.285714
-0.000713  -0.223772  -21.998813
1.00000  -0.429434  -6.354164  -0.285714
-0.000713  -0.441972  -50.945666

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.142187   9.844170   0.042682
0.000230  0.105193  16.698241
0.25000   0.142187  28.696273   0.042682
 0.000230  0.052096  64.816478
0.50000   0.142187  53.478508   0.042682
 0.000230  0.053003  83.331541
0.75000   0.142187  76.768371   0.042682
 0.000230  0.146993  63.218687
1.00000   0.142187 101.506888   0.042682
 0.000230  0.264155  14.320718

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.137674 -100.604767  -0.103136
-0.000187  -0.270530  -67.665450
0.25000  -0.137674  -75.956004  -0.103136
-0.000187  -0.142304  -25.174724
0.50000  -0.137674  -52.851461  -0.103136
-0.000187  -0.029731  -24.876938
0.75000  -0.137674  -27.876403  -0.103136
-0.000187  -0.053956  -25.442991
1.00000  -0.137674  -9.130337  -0.103136
-0.000187  -0.107054  -68.441678

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.184649   9.776911   0.052358
0.000269  0.129186  20.882647
0.25000   0.184649  27.323869   0.052358
 0.000269  0.064023  64.923042
0.50000   0.184649  50.390410   0.052358
 0.000269  0.063238  81.533305
0.75000   0.184649  72.067899   0.052358
 0.000269  0.209252  62.340230
1.00000   0.184649  95.093749   0.052358
 0.000269  0.383993  16.536809

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.238071  -93.672372  -0.149038
-0.000632  -0.377590  -65.199206
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4176

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T         M2         M3
0.25000  -0.238071  -70.730062  -0.149038
-0.000632  -0.192666  -25.603319
0.50000  -0.238071  -49.038910  -0.149038
-0.000632  -0.043710  -25.279323
0.75000  -0.238071  -25.979049  -0.149038
-0.000632  -0.071240  -25.759361
1.00000  -0.238071  -8.530787  -0.149038
-0.000632  -0.134192  -65.734390

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.322157   8.105211   0.147267
0.001070  0.365004  23.612106
0.25000   0.322157  20.525851   0.147267
 0.001070  0.181836  53.607157
0.50000   0.322157  36.853531   0.147267
 0.001070  0.065611  64.385005
0.75000   0.322157  52.197968   0.147267
 0.001070  0.344030  50.128021
1.00000   0.322157  68.496845   0.147267
 0.001070  0.656477  17.305453

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.384982  -66.467679  -0.257526
-0.000574  -0.638974  -49.086953
0.25000  -0.384982  -50.227936  -0.257526
-0.000574  -0.319266  -21.031145
0.50000  -0.384982  -34.873828  -0.257526
-0.000574  -0.039546  -20.773994
0.75000  -0.384982  -18.550877  -0.257526
-0.000574  -0.188597  -21.085979
1.00000  -0.384982  -6.200103  -0.257526
-0.000574  -0.369386  -49.354542

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.370396   7.026363   0.143019
0.000892  0.356095  22.054573
0.25000   0.370396  17.431274   0.143019
 0.000892  0.178225  46.915644
0.50000   0.370396  31.169161   0.143019
 0.000892  0.061750  55.672400
0.75000   0.370396  43.963374   0.143019
 0.000892  0.330434  43.460264
1.00000   0.370396  57.617132   0.143019
 0.000892  0.635302  15.690104

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.422341  -55.751546  -0.250422
-0.000842  -0.622414  -42.574880
0.25000  -0.422341  -42.147325  -0.250422
-0.000842  -0.311464  -19.024457
0.50000  -0.422341  -29.285010  -0.250422
-0.000842  -0.037662  -18.765292
0.75000  -0.422341  -15.611084  -0.250422
-0.000842  -0.181347  -18.980899
1.00000  -0.422341  -5.264697  -0.250422
-0.000842  -0.357472  -42.616056

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.176092   0.380169   0.033553
4.85E-07  0.085698   0.467171
0.25000   0.176092   0.403439   0.033553
4.85E-07  0.044041   3.100199
0.50000   0.176092   0.436111   0.033553
4.85E-07  0.010419   2.708928
0.75000   0.176092   0.465969   0.033553
4.85E-07  0.069191   2.283351
1.00000   0.176092   0.497685   0.033553
4.85E-07  0.139531   1.846005
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4177

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.194568  -0.239207  -0.056582
-0.000560  -0.141906  -2.338215
0.25000  -0.194568  -0.207606  -0.056582
-0.000560  -0.071674  -2.209898
0.50000  -0.194568  -0.177728  -0.056582
-0.000560  -0.007055  -2.135674
0.75000  -0.194568  -0.145965  -0.056582
-0.000560  -0.039529  -2.062558
1.00000  -0.194568  -0.121932  -0.056582
-0.000560  -0.081245  -2.043842

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.255793   1.199374   0.055565
2.46E-06  0.141653   7.631959
0.25000   0.255793   1.924455   0.055565
2.46E-06  0.072636   8.528390
0.50000   0.255793   2.877618   0.055565
2.46E-06  0.022014   8.412735
0.75000   0.255793   3.773382   0.055565
2.46E-06  0.121155   6.896353
1.00000   0.255793   4.724863   0.055565
2.46E-06  0.240800   4.466369

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.313421  -4.059870  -0.096619
-0.000993  -0.240621  -6.570654
0.25000  -0.313421  -3.111841  -0.096619
-0.000993  -0.120523  -4.819974
0.50000  -0.313421  -2.215512  -0.096619
-0.000993  -0.013758  -4.692098
0.75000  -0.313421  -1.262625  -0.096619
-0.000993  -0.065580  -4.597448
1.00000  -0.313421  -0.541623  -0.096619
-0.000993  -0.134670  -6.134821

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.280448   2.062992   0.063493
0.000208  0.159461  13.099539
0.25000   0.280448   3.215870   0.063493
0.000208  0.080515  14.449907
0.50000   0.280448   4.731399   0.063493
0.000208  0.055163  14.194574
0.75000   0.280448   6.155664   0.063493
0.000208  0.199830  11.873412
1.00000   0.280448   7.668519   0.063493
0.000208  0.388722   8.092005

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.357072  -6.414002  -0.152799
-0.001147  -0.372929  -9.622994
0.25000  -0.357072  -4.906635  -0.152799
-0.001147  -0.183289  -6.889733
0.50000  -0.357072  -3.481473  -0.152799
-0.001147  -0.019176  -6.736734
0.75000  -0.357072  -1.966383  -0.152799
-0.001147  -0.081503  -6.636561
1.00000  -0.357072  -0.819989  -0.152799
-0.001147  -0.157839  -9.131307

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.371042   7.795539   0.119968
0.000652  0.299226  22.081610
0.25000   0.371042  20.085660   0.119968
 0.000652  0.150783  51.974566
0.50000   0.371042  36.241771   0.119968
 0.000652  0.063606  62.756358
0.75000   0.371042  51.424970   0.119968
 0.000652  0.301852  48.651705
1.00000   0.371042  67.552580   0.119968
 0.000652  0.577333  16.054562
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4178

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.432814  -65.832755  -0.227584
-0.001014  -0.568918  -49.013730
0.25000  -0.432814  -49.763658  -0.227584
-0.001014  -0.286296  -21.205478
0.50000  -0.432814  -34.570889  -0.227584
-0.001014  -0.040755  -20.903779
0.75000  -0.432814  -18.419457  -0.227584
-0.001014  -0.152075  -21.165235
1.00000  -0.432814  -6.198463  -0.227584
-0.001014  -0.299548  -49.089505

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.336477   0.930395   0.215380
0.001019  0.529197   8.015354
0.25000   0.336477   0.938605   0.215380
0.001019  0.261606   7.093421
0.50000   0.336477   0.958054   0.215380
0.001019  0.019662   6.189594
0.75000   0.336477   0.979233   0.215380
0.001019  0.316327   5.328433
1.00000   0.336477   0.997820   0.215380
0.001019  0.620143   4.515118

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.415929  -0.266495  -0.244411
-5.42E-06  -0.595165  -4.038964
0.25000  -0.415929  -0.247908  -0.244411
-5.42E-06  -0.291248  -3.801205
0.50000  -0.415929  -0.226735  -0.244411
-5.42E-06  -0.010054  -3.591681
0.75000  -0.415929  -0.207308  -0.244411
-5.42E-06  -0.274033  -3.382236
1.00000  -0.415929  -0.199171  -0.244411
-5.42E-06  -0.541730  -3.202421

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.620083  14.023328   0.299826
0.001271  0.371570  24.131132
0.25000   0.620083  27.092393   0.299826
 0.001271  0.371570  63.175069
0.50000   0.620083  58.056106   0.299826
 0.001271  0.081552  84.575807
0.75000   0.620083  91.773224   0.299826
 0.001271  0.533421  60.169270
1.00000   0.620083 121.367686   0.299826
 0.001271  1.005172  18.865494

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.633136 -119.990335  -0.394978
-4.52E-05  -0.975643  -76.370776
0.25000  -0.633136  -90.400332  -0.394978
-4.52E-05  -0.489570  -31.256194
0.50000  -0.633136  -56.692801  -0.394978
-4.52E-05  -0.046700  -30.985024
0.75000  -0.633136  -25.765079  -0.394978
-4.52E-05  -0.405710  -30.774430
1.00000  -0.633136  -12.811226  -0.394978
-4.52E-05  -0.774012  -75.868218

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.597859  10.931782   0.293072
0.001273  0.709525  25.856628
0.25000   0.597859  20.211475   0.293072
 0.001273  0.354502  52.415576
0.50000   0.597859  42.197267   0.293072
 0.001273  0.081075  66.655874
0.75000   0.597859  66.138115   0.293072
 0.001273  0.572409  48.476752
1.00000   0.597859  87.148120   0.293072
 0.001273  1.083698  18.395166
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4179

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.658974  -85.402560  -0.422053
-0.000331  -1.026370  -58.667791
0.25000  -0.658974  -64.391171  -0.422053
-0.000331  -0.504762  -26.372892
0.50000  -0.658974  -40.458130  -0.422053
-0.000331  -0.045086  -25.919014
0.75000  -0.658974  -18.497893  -0.422053
-0.000331  -0.398176  -25.507363
1.00000  -0.658974  -9.300006  -0.422053
-0.000331  -0.758427  -57.265659

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.603272   9.450863   0.270507
0.001060  0.653810  24.964292
0.25000   0.603272  17.153156   0.270507
 0.001060  0.325227  46.592558
0.50000   0.603272  35.401714   0.270507
 0.001060  0.077385  58.011272
0.75000   0.603272  55.272999   0.270507
 0.001060  0.542928  42.566195
1.00000   0.603272  72.711637   0.270507
 0.001060  1.030202  17.256168

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.700773  -71.017157  -0.400840
-0.000612  -0.972486  -50.966046
0.25000  -0.700773  -53.578200  -0.400840
-0.000612  -0.476862  -24.005610
0.50000  -0.700773  -33.712565  -0.400840
-0.000612  -0.043791  -23.473732
0.75000  -0.700773  -15.485219  -0.400840
-0.000612  -0.366983  -22.976963
1.00000  -0.700773  -7.850826  -0.400840
-0.000612  -0.700139  -49.182231

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.297116   9.585178   0.066812
0.000208  0.157186  14.293795
0.25000   0.297116  18.746658   0.066812
 0.000208  0.083751  41.806646
0.50000   0.297116  40.452377   0.066812
 0.000208  0.050999  57.083965
0.75000   0.297116  64.088246   0.066812
 0.000208  0.199643  40.376855
1.00000   0.297116  84.830608   0.066812
 0.000208  0.358713  11.831058

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.239091  -84.148067  -0.138873
-0.000158  -0.343482  -52.091077
0.25000  -0.239091  -63.405327  -0.138873
-0.000158  -0.174366  -20.531358
0.50000  -0.239091  -39.776178  -0.138873
-0.000158  -0.029314  -20.406972
0.75000  -0.239091  -18.095689  -0.138873
-0.000158  -0.104758  -20.324537
1.00000  -0.239091  -9.014973  -0.138873
-0.000158  -0.184570  -52.001101

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.326068   9.746230   0.091851
0.000250  0.213891  19.510708
0.25000   0.326068  18.489040   0.091851
 0.000250  0.108880  45.113282
0.50000   0.326068  39.202831   0.091851
 0.000250  0.065537  59.082130
0.75000   0.326068  61.758566   0.091851
 0.000250  0.289403  42.488756
1.00000   0.326068  81.553024   0.091851
 0.000250  0.528525  14.647255
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4180

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.354189  -80.395555  -0.202543
-0.000530  -0.489088  -53.078145
0.25000  -0.354189  -60.600736  -0.202543
-0.000530  -0.240467  -22.748646
0.50000  -0.354189  -38.051414  -0.202543
-0.000530  -0.037495  -22.417930
0.75000  -0.354189  -17.361700  -0.202543
-0.000530  -0.143254  -22.127161
1.00000  -0.354189  -8.695963  -0.202543
-0.000530  -0.253574  -52.144654

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.533727   7.607127   0.228329
0.000973  0.548840  27.741611
0.25000   0.533727  13.288722   0.228329
 0.000973  0.271076  38.077443
0.50000   0.533727  26.749768   0.228329
 0.000973  0.067961  45.912753
0.75000   0.533727  41.407819   0.228329
 0.000973  0.489027  34.265297
1.00000   0.533727  54.271610   0.228329
 0.000973  0.928640  15.479657

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.583820  -52.583411  -0.359886
-0.000482  -0.867445  -39.352891
0.25000  -0.583820  -39.719566  -0.359886
-0.000482  -0.421938  -19.372474
0.50000  -0.583820  -25.065683  -0.359886
-0.000482  -0.036712  -18.886944
0.75000  -0.583820  -11.620283  -0.359886
-0.000482  -0.311870  -18.627320
1.00000  -0.583820  -5.988774  -0.359886
-0.000482  -0.592979  -37.664720

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.570735   6.698809   0.214464
0.000812  0.515137  22.234460
0.25000   0.570735  11.470413   0.214464
 0.000812  0.253326  34.762687
0.50000   0.570735  22.775475   0.214464
 0.000812  0.066638  40.997232
0.75000   0.570735  35.085823   0.214464
 0.000812  0.477562  30.864718
1.00000   0.570735  45.889137   0.214464
 0.000812  0.908936  14.737639

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T         M2         M3
0.00000  -0.636301  -44.282727  -0.352248
-0.000743  -0.848073  -35.296467
0.25000  -0.636301  -33.479217  -0.352248
-0.000743  -0.411987  -18.356340
0.50000  -0.636301  -21.172368  -0.352248
-0.000743  -0.037095  -17.788696
0.75000  -0.636301  -9.880447  -0.352248
-0.000743  -0.292512  -17.242867
1.00000  -0.636301  -5.150907  -0.352248
-0.000743  -0.557185  -33.239340

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T         M2         M3
0.00000   0.230825   0.496437   0.037334
2.82E-07  0.088702   4.830302
0.25000   0.230825   0.504646   0.037334
2.82E-07  0.042605   4.310163
0.50000   0.230825   0.524095   0.037334
2.82E-07  0.014898   3.786208
0.75000   0.230825   0.545274   0.037334
2.82E-07  0.112015   3.241407
1.00000   0.230825   0.563861   0.037334
2.82E-07  0.216945   2.688915
```

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4181

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.255567	-0.278917	-0.084353
-0.000530	-0.202572	-3.591937	
0.25000	-0.255567	-0.260331	-0.084353
-0.000530	-0.096009	-3.310135	
0.50000	-0.255567	-0.239158	-0.084353
-0.000530	-0.009791	-3.056516	
0.75000	-0.255567	-0.219731	-0.084353
-0.000530	-0.050029	-2.802949	
1.00000	-0.255567	-0.211594	-0.084353
-0.000530	-0.096541	-2.578008	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.328809	1.274270	0.071041
1.67E-06	0.168581	9.642451	
0.25000	0.328809	1.545174	0.071041
1.67E-06	0.080380	9.378568	
0.50000	0.328809	2.187010	0.071041
1.67E-06	0.028764	8.798961	
0.75000	0.328809	2.885920	0.071041
1.67E-06	0.194700	7.345080	
1.00000	0.328809	3.499269	0.071041
1.67E-06	0.374137	5.569805	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.428884	-2.852783	-0.144443
-0.000914	-0.344450	-7.812757	
0.25000	-0.428884	-2.239423	-0.144443
-0.000914	-0.165298	-6.457816	
0.50000	-0.428884	-1.540711	-0.144443
-0.000914	-0.018253	-6.030249	
0.75000	-0.428884	-0.899621	-0.144443
-0.000914	-0.096123	-5.603962	
1.00000	-0.428884	-0.631106	-0.144443
-0.000914	-0.184704	-6.117005	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.412424	1.672158	0.094444
0.000203	0.220523	14.704147	
0.25000	0.412424	1.679546	0.094444
0.000203	0.102681	12.966533	
0.50000	0.412424	1.697051	0.094444
0.000203	0.041544	11.288999	
0.75000	0.412424	1.726112	0.094444
0.000203	0.294396	9.851655	
1.00000	0.412424	1.732840	0.094444
0.000203	0.562643	8.551207	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.496042	-0.595435	-0.215444
-0.001023	-0.508040	-8.746767	
0.25000	-0.496042	-0.578707	-0.215444
-0.001023	-0.240346	-8.151835	
0.50000	-0.496042	-0.559651	-0.215444
-0.001023	-0.023990	-7.582356	
0.75000	-0.496042	-0.542167	-0.215444
-0.001023	-0.131965	-7.012876	
1.00000	-0.496042	-0.534844	-0.215444
-0.001023	-0.248997	-6.469495	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.585592	7.006340	0.177713
0.000603	0.423863	21.803439	
0.25000	0.585592	12.178143	0.177713
0.000603	0.208159	35.659033	
0.50000	0.585592	24.431372	0.177713
0.000603	0.066583	42.672683	
0.75000	0.585592	37.774201	0.177713
0.000603	0.439001	31.935533	
1.00000	0.585592	49.483599	0.177713
0.000603	0.831307	14.660478	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4182

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.631128	-47.998153	-0.321457
-0.000915	-0.773716	-37.304197	
0.25000	-0.631128	-36.288541	-0.321457
-0.000915	-0.376226	-19.031904	
0.50000	-0.631128	-22.949506	-0.321457
-0.000915	-0.037912	-18.589986	
0.75000	-0.631128	-10.710520	-0.321457
-0.000915	-0.246459	-18.058428	
1.00000	-0.631128	-5.584310	-0.321457
-0.000915	-0.465143	-35.456235	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.391620	12.342610	0.201396
0.001392	0.499937	25.527982	
0.25000	0.391620	34.868457	0.201396
0.001392	0.249525	82.032097	
0.50000	0.391620	64.480050	0.201396
0.001392	0.079730	103.523477	
0.75000	0.391620	92.308451	0.201396
0.001392	0.403482	78.983254	
1.00000	0.391620	121.867807	0.201396
0.001392	0.770370	20.162654	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.432814	-120.256331	-0.302628
-0.001147	-0.752825	-82.739460	
0.25000	-0.432814	-90.804219	-0.302628
-0.001147	-0.377023	-31.970883	
0.50000	-0.432814	-62.958278	-0.302628
-0.001147	-0.052843	-31.617461	
0.75000	-0.432814	-33.355261	-0.302628
-0.001147	-0.251225	-32.296215	
1.00000	-0.432814	-10.956115	-0.302628
-0.001147	-0.501621	-83.676526	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.620083	14.023328	0.299826
0.001273	0.730510	25.856628	
0.25000	0.620083	27.092393	0.299826
0.001273	0.371570	63.175069	
0.50000	0.620083	58.056106	0.299826
0.001273	0.081552	84.575807	
0.75000	0.620083	91.773224	0.299826
0.001273	0.572409	60.169270	
1.00000	0.620083	121.362686	0.299826
0.001273	1.083698	18.865494	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.700773	-119.990335	-0.422053
-0.001023	-1.026370	-76.370776	
0.25000	-0.700773	-90.400332	-0.422053
-0.001023	-0.504762	-31.256194	
0.50000	-0.700773	-56.692801	-0.422053
-0.001023	-0.046700	-30.985024	
0.75000	-0.700773	-25.765079	-0.422053
-0.001023	-0.405710	-30.773430	
1.00000	-0.700773	-12.811226	-0.422053
-0.001023	-0.774012	-75.868218	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.620083	14.023328	0.299826
0.001392	0.730510	25.856628	
0.25000	0.620083	34.868457	0.299826
0.001392	0.371570	82.032097	
0.50000	0.620083	64.480050	0.299826
0.001392	0.081552	103.523477	
0.75000	0.620083	92.308451	0.299826
0.001392	0.572409	78.983254	
1.00000	0.620083	121.867807	0.299826
0.001392	1.083698	20.162654	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4183

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.700773	-120.256331	-0.422053
-0.001147	-1.026370	-82.739460	
0.25000	-0.700773	-90.804219	-0.422053
-0.001147	-0.504762	-31.970883	
0.50000	-0.700773	-62.958278	-0.422053
-0.001147	-0.052843	-31.617461	
0.75000	-0.700773	-33.355261	-0.422053
-0.001147	-0.405710	-32.296215	
1.00000	-0.700773	-12.811226	-0.422053
-0.001147	-0.774012	-83.676526	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.620083	14.023328	0.299826
0.001392	0.730510	25.856628	
0.25000	0.620083	34.868457	0.299826
0.001392	0.371570	82.032097	
0.50000	0.620083	64.480050	0.299826
0.001392	0.081552	103.523477	
0.75000	0.620083	92.308451	0.299826
0.001392	0.572409	78.983254	
1.00000	0.620083	121.867807	0.299826
0.001392	1.083698	20.162654	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.700773	-120.256331	-0.422053
-0.001147	-1.026370	-82.739460	
0.25000	-0.700773	-90.804219	-0.422053
-0.001147	-0.504762	-31.970883	
0.50000	-0.700773	-62.958278	-0.422053
-0.001147	-0.052843	-31.617461	
0.75000	-0.700773	-33.355261	-0.422053
-0.001147	-0.405710	-32.296215	
1.00000	-0.700773	-12.811226	-0.422053
-0.001147	-0.774012	-83.676526	

ELEM 404 ========== LENGTH = 4.972327

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.214674	0.662349	0.143217
0.001231	0.357001	4.515824	
0.25000	0.214674	0.686588	0.143217
0.001231	0.178973	3.949549	
0.50000	0.214674	0.718425	0.143217
0.001231	0.011115	3.422979	
0.75000	0.214674	0.748303	0.143217
0.001231	0.220223	3.022987	
1.00000	0.214674	0.780253	0.143217
0.001231	0.442040	2.724257	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.222454	-0.227571	-0.177902
-5.85E-06	-0.442565	-2.681831	
0.25000	-0.222454	-0.196017	-0.177902
-5.85E-06	-0.221420	-2.783744	
0.50000	-0.222454	-0.166085	-0.177902
-5.85E-06	-0.008434	-2.939493	
0.75000	-0.222454	-0.134313	-0.177902
-5.85E-06	-0.177094	-3.095934	
1.00000	-0.222454	-0.110368	-0.177902
-5.85E-06	-0.355119	-3.307621	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.375409	11.486663	0.200853
0.001545	0.500637	20.232767	
0.25000	0.375409	34.077087	0.200853
0.001545	0.250979	77.586675	
0.50000	0.375409	63.749803	0.200853
0.001545	0.063880	99.469364	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4184

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.375409	91.595376	0.200853
0.001545	0.373716	72.556175	
1.00000	0.375409	121.373109	0.200853
0.001545	0.717405	17.307839	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.355634	-120.273324	-0.292414
-6.14E-05	-0.751317	-83.655285	
0.25000	-0.355634	-90.865331	-0.292414
-6.14E-05	-0.387864	-32.913251	
0.50000	-0.355634	-62.968354	-0.292414
-6.14E-05	-0.055276	-32.333386	
0.75000	-0.355634	-33.357181	-0.292414
-6.14E-05	-0.253027	-32.398043	
1.00000	-0.355634	-11.040386	-0.292414
-6.14E-05	-0.498062	-83.943977	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.359234	8.545329	0.205357
0.001342	0.503065	19.003418	
0.25000	0.359234	23.924754	0.205357
0.001342	0.247789	57.320033	
0.50000	0.359234	44.125759	0.205357
0.001342	0.056594	71.628959	
0.75000	0.359234	63.082859	0.205357
0.001342	0.415674	52.949645	
1.00000	0.359234	83.355361	0.205357
0.001342	0.807449	15.140178	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.373926	-82.003550	-0.326133
-0.000450	-0.824509	-59.766914	
0.25000	-0.373926	-61.982764	-0.326133
-0.000450	-0.419148	-25.365448	
0.50000	-0.373926	-42.990670	-0.326133
-0.000450	-0.047078	-25.113968	
0.75000	-0.373926	-22.831562	-0.326133
-0.000450	-0.265742	-25.301353	
1.00000	-0.373926	-7.638421	-0.326133
-0.000450	-0.517934	-60.537352	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.373244	7.334907	0.190811
0.001118	0.465537	17.337250	
0.25000	0.373244	20.096557	0.190811
0.001118	0.229211	48.860458	
0.50000	0.373244	36.859093	0.190811
0.001118	0.051151	60.511971	
0.75000	0.373244	52.594953	0.190811
0.001118	0.390809	44.857114	
1.00000	0.373244	69.411316	0.190811
0.001118	0.760471	13.393012	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.408164	-68.103700	-0.306485
-0.000819	-0.772103	-50.945573	
0.25000	-0.408164	-51.490708	-0.306485
-0.000819	-0.391181	-22.430191	
0.50000	-0.408164	-35.731311	-0.306485
-0.000819	-0.043843	-22.252409	
0.75000	-0.408164	-19.003540	-0.306485
-0.000819	-0.250752	-22.438828	
1.00000	-0.408164	-6.396466	-0.306485
-0.000819	-0.485410	-51.708200	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.140258	9.279684	0.044275
0.000177	0.107898	14.370302	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4185

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.140258	28.185832	0.044275
0.000177	0.054113	62.741138	
0.50000	0.140258	53.019219	0.044275
0.000177	0.047125	81.394045	
0.75000	0.140258	76.323456	0.044275
0.000177	0.150462	59.105786	
1.00000	0.140258	101.244736	0.044275
0.000177	0.274508	13.042271	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.118000	-100.679733	-0.113154
-0.000210	-0.300433	-68.415115	
0.25000	-0.118000	-76.067892	-0.113154
-0.000210	-0.159830	-25.843943	
0.50000	-0.118000	-52.720637	-0.113154
-0.000210	-0.041215	-25.254455	
0.75000	-0.118000	-27.938754	-0.113154
-0.000210	-0.063506	-25.204534	
1.00000	-0.118000	-9.261608	-0.113154
-0.000210	-0.114687	-68.239776	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.168329	9.063122	0.072368
7.49E-05	0.115852	19.595760	
0.25000	0.168329	26.660384	0.072368
7.49E-05	0.078804	61.117295	
0.50000	0.168329	49.774536	0.072368
7.49E-05	0.052334	78.069963	
0.75000	0.168329	71.465403	0.072368
7.49E-05	0.226727	57.093610	
1.00000	0.168329	94.661363	0.072368
7.49E-05	0.424327	14.123908	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.203100	-93.734603	-0.171525
-0.000715	-0.440323	-65.716215	
0.25000	-0.203100	-70.826659	-0.171525
-0.000715	-0.227164	-26.172273	
0.50000	-0.203100	-49.095752	-0.171525
-0.000715	-0.045373	-25.703017	
0.75000	-0.203100	-26.029538	-0.171525
-0.000715	-0.105852	-25.595971	
1.00000	-0.203100	-8.645425	-0.171525
-0.000715	-0.191505	-65.871867	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.302813	7.300203	0.164745
0.000954	0.399582	17.383482	
0.25000	0.302813	19.756446	0.164745
0.000954	0.195307	48.078131	
0.50000	0.302813	36.117828	0.164745
0.000954	0.050387	59.449581	
0.75000	0.302813	51.471735	0.164745
0.000954	0.361949	44.244130	
1.00000	0.302813	67.891024	0.164745
0.000954	0.702000	13.669924	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.352423	-66.592162	-0.282479
-0.000648	-0.711090	-49.353688	
0.25000	-0.352423	-50.376745	-0.282479
-0.000648	-0.360031	-21.527729	
0.50000	-0.352423	-34.994496	-0.282479
-0.000648	-0.041489	-21.360836	
0.75000	-0.352423	-18.667048	-0.282479
-0.000648	-0.217126	-21.549499	
1.00000	-0.352423	-6.361682	-0.282479
-0.000648	-0.419456	-50.125460	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4186

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.358430	6.277589	0.156575
0.000795	0.381285	15.753045	
0.25000	0.358430	16.712329	0.156575
0.000795	0.186984	41.293550	
0.50000	0.358430	30.418448	0.156575
0.000795	0.045705	50.652544	
0.75000	0.358430	43.280594	0.156575
0.000795	0.344568	37.750536	
1.00000	0.358430	57.035223	0.156575
0.000795	0.671005	11.972543	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.395558	-55.825725	-0.270074
-0.000968	-0.679018	-42.617289	
0.25000	-0.395558	-42.241882	-0.270074
-0.000968	-0.343352	-19.324075	
0.50000	-0.395558	-29.355093	-0.270074
-0.000968	-0.039362	-19.201720	
0.75000	-0.395558	-15.678300	-0.270074
-0.000968	-0.208600	-19.377189	
1.00000	-0.395558	-5.369952	-0.270074
-0.000968	-0.400052	-43.333444	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.181497	0.269082	0.031857
5.33E-07	0.079093	1.841281	
0.25000	0.181497	0.293321	0.031857
5.33E-07	0.039494	1.619060	
0.50000	0.181497	0.325159	0.031857
5.33E-07	0.005309	1.377058	
0.75000	0.181497	0.355036	0.031857
5.33E-07	0.069696	1.108701	
1.00000	0.181497	0.386986	0.031857
5.33E-07	0.139144	0.901382	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192760	-0.203308	-0.055877
-0.000661	-0.038711	-2.060018	
0.25000	-0.192760	-0.171755	-0.055877
-0.000661	-0.069246	-2.011260	
0.50000	-0.192760	-0.141822	-0.055877
-0.000661	-0.007136	-2.030891	
0.75000	-0.192760	-0.110051	-0.055877
-0.000661	-0.040797	-2.051699	
1.00000	-0.192760	-0.086160	-0.055877
-0.000661	-0.079308	-2.128327	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.236828	0.952702	0.056706
3.51E-06	0.136194	4.466768	
0.25000	0.236828	1.679861	0.056706
3.51E-06	0.066440	5.655344	
0.50000	0.236828	2.634991	0.056706
3.51E-06	0.012542	5.808766	
0.75000	0.236828	3.531308	0.056706
3.51E-06	0.131752	4.594592	
1.00000	0.236828	4.489819	0.056706
3.51E-06	0.258997	2.596816	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.310660	-4.026177	-0.102913
-0.001176	-0.253400	-6.140411	
0.25000	-0.310660	-3.079568	-0.102913
-0.001176	-0.125545	-4.569134	
0.50000	-0.310660	-2.181597	-0.102913
-0.001176	-0.014122	-4.613238	
0.75000	-0.310660	-1.228448	-0.102913
-0.001176	-0.078047	-4.678401	
1.00000	-0.310660	-0.510096	-0.102913
-0.001176	-0.145701	-6.401642	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4187

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.273707	1.618841	0.079345
5.28E-06	0.186541	8.121337	
0.25000	0.273707	2.775025	0.079345
5.28E-06	0.088391	9.999731	
0.50000	0.273707	4.293682	0.079345
5.28E-06	0.021653	10.249251	
0.75000	0.273707	5.718826	0.079345
5.28E-06	0.217393	8.297051	
1.00000	0.273707	7.242458	0.079345
5.28E-06	0.427859	5.154296	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.326747	-6.410617	-0.170260
-0.001329	-0.419812	-9.141977	
0.25000	-0.326747	-4.905508	-0.170260
-0.001329	-0.208210	-6.693270	
0.50000	-0.326747	-3.477734	-0.170260
-0.001329	-0.019880	-6.812531	
0.75000	-0.326747	-1.962227	-0.170260
-0.001329	-0.112002	-6.932239	
1.00000	-0.326747	-0.820047	-0.170260
-0.001329	-0.207863	-9.754129	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.362566	7.049293	0.133218
0.000536	0.322881	16.112834	
0.25000	0.362566	19.374648	0.133218
0.000536	0.157677	46.638864	
0.50000	0.362566	35.564106	0.133218
0.000536	0.047929	57.969078	
0.75000	0.362566	50.756676	0.133218
0.000536	0.316118	42.902235	
1.00000	0.362566	67.003433	0.133218
0.000536	0.611397	12.571658	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.402882	-65.879484	-0.246348
-0.001101	-0.621830	-49.084680	
0.25000	-0.402882	-49.834457	-0.246348
-0.001101	-0.315638	-21.489819	
0.50000	-0.402882	-34.613842	-0.246348
-0.001101	-0.042422	-21.263938	
0.75000	-0.402882	-18.457961	-0.246348
-0.001101	-0.178466	-21.390171	
1.00000	-0.402882	-6.281899	-0.246348
-0.001101	-0.339417	-49.605933	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.293738	0.820225	0.228047
0.001256	0.560605	4.571438	
0.25000	0.293738	0.828676	0.228047
0.001256	0.277080	4.010581	
0.50000	0.293738	0.848165	0.228047
0.001256	0.012029	3.629738	
0.75000	0.293738	0.869350	0.228047
0.001256	0.332631	3.353925	
1.00000	0.293738	0.887880	0.228047
0.001256	0.660323	3.181140	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.448390	-0.266006	-0.263471
-5.52E-06	-0.649540	-3.266028	
0.25000	-0.448390	-0.247381	-0.263471
-5.52E-06	-0.321926	-3.370853	
0.50000	-0.448390	-0.226179	-0.263471
-5.52E-06	-0.011183	-3.716950	
0.75000	-0.448390	-0.206747	-0.263471
-5.52E-06	-0.289688	-4.155900	
1.00000	-0.448390	-0.198702	-0.263471
-5.52E-06	-0.573249	-4.713592	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.586028	13.415181	0.326223
0.001526	0.796500	18.965830	
0.25000	0.586028	26.869663	0.326223
0.001526	0.404236	58.125247	
0.50000	0.586028	57.896066	0.326223
0.001526	0.067513	79.846454	
0.75000	0.586028	91.621610	0.326223
0.001526	0.564076	55.816689	
1.00000	0.586028	121.121756	0.326223
0.001526	1.081204	15.611812	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.619272	-119.739659	-0.432618
-5.01E-05	-1.082492	-75.910547	
0.25000	-0.619272	-90.089149	-0.432618
-5.01E-05	-0.549515	-31.391369	
0.50000	-0.619272	-56.335282	-0.432618
-5.01E-05	-0.049928	-31.426186	
0.75000	-0.619272	-25.399898	-0.432618
-5.01E-05	-0.439307	-31.639139	
1.00000	-0.619272	-77.906256	-0.432618
-5.01E-05	-0.841349	-77.906256	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.570020	10.355579	0.337156
0.001341	0.816310	18.513369	
0.25000	0.570020	19.908938	0.337156
0.001341	0.406240	45.653454	
0.50000	0.570020	41.939243	0.337156
0.001341	0.061830	60.655250	
0.75000	0.570020	65.858074	0.337156
0.001341	0.623514	43.330273	
1.00000	0.570020	86.832660	0.337156
0.001341	1.205640	14.669492	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.637352	-85.237188	-0.479750
-0.000367	-1.187686	-57.320819	
0.25000	-0.637352	-64.183836	-0.479750
-0.000367	-0.594243	-25.754541	
0.50000	-0.637352	-40.216894	-0.479750
-0.000367	-0.047319	-26.064798	
0.75000	-0.637352	-18.251217	-0.479750
-0.000367	-0.454373	-26.607989	
1.00000	-0.637352	-9.156689	-0.479750
-0.000367	-0.871357	-59.949501	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.572009	8.884029	0.316755
0.001117	0.764526	17.353460	
0.25000	0.572009	16.813469	0.316755
0.001117	0.378272	39.610364	
0.50000	0.572009	35.098973	0.316755
0.001117	0.056646	51.848356	
0.75000	0.572009	54.975224	0.316755
0.001117	0.600386	37.339467	
1.00000	0.572009	72.361224	0.316755
0.001117	1.162212	13.477503	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.683059	-70.842169	-0.461440
-0.000730	-1.138467	-49.222666	
0.25000	-0.683059	-53.367552	-0.461440
-0.000730	-0.567171	-22.984547	
0.50000	-0.683059	-33.474608	-0.461440
-0.000730	-0.045152	-23.268138	
0.75000	-0.683059	-15.242747	-0.461440
-0.000730	-0.428616	-23.793697	
1.00000	-0.683059	-7.694144	-0.461440
-0.000730	-0.820227	-51.591687	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.302223	9.188784	0.082788
0.000166	0.197254	11.880168	
0.25000	0.302223	18.620444	0.082788
0.000166	0.103897	39.470211	
0.50000	0.302223	40.370108	0.082788
0.000166	0.019503	54.771687	
0.75000	0.302223	64.011884	0.082788
0.000166	0.219549	38.094902	
1.00000	0.302223	84.691635	0.082788
0.000166	0.406346	10.061631	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.176997	-83.971537	-0.162078
-0.000175	-0.408423	-51.989341	
0.25000	-0.176997	-63.186380	-0.162078
-0.000175	-0.210276	-20.700793	
0.50000	-0.176997	-39.524750	-0.162078
-0.000175	-0.030630	-20.574770	
0.75000	-0.176997	-17.838890	-0.162078
-0.000175	-0.126524	-20.539950	
1.00000	-0.176997	-8.860216	-0.162078
-0.000175	-0.227030	-52.754821	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.317531	9.255669	0.129253
5.97E-05	0.302727	14.710211	
0.25000	0.317531	18.256312	0.129253
5.97E-05	0.150998	40.621288	
0.50000	0.317531	39.012040	0.129253
5.97E-05	0.051100	54.960149	
0.75000	0.317531	61.573413	0.129253
5.97E-05	0.333886	38.797215	
1.00000	0.317531	81.308121	0.129253
5.97E-05	0.630066	11.902198	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.297335	-80.223363	-0.249125
-0.000613	-0.616085	-52.137109	
0.25000	-0.297335	-60.388067	-0.249125
-0.000613	-0.309379	-22.257701	
0.50000	-0.297335	-37.807747	-0.249125
-0.000613	-0.038105	-22.273417	
0.75000	-0.297335	-17.112908	-0.249125
-0.000613	-0.192338	-22.460325	
1.00000	-0.297335	-8.544550	-0.249125
-0.000613	-0.350937	-53.498365	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.515149	7.139583	0.273435
0.000929	0.657886	15.590919	
0.25000	0.515149	12.988733	0.273435
0.000929	0.323687	31.553123	
0.50000	0.515149	26.477033	0.273435
0.000929	0.048735	40.272801	
0.75000	0.515149	41.138747	0.273435
0.000929	0.545808	29.561246	
1.00000	0.515149	53.963528	0.273435
0.000929	1.058609	12.115213	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.536671	-52.516996	-0.419273
-0.000557	-1.030711	-37.710330	
0.25000	-0.536671	-39.626846	-0.419273
-0.000557	-0.511117	-18.823201	
0.50000	-0.536671	-24.952819	-0.419273
-0.000557	-0.037867	-19.204504	
0.75000	-0.536671	-11.504088	-0.419273
-0.000557	-0.370468	-19.790033	
1.00000	-0.536671	-5.935862	-0.419273
-0.000557	0.709109	-40.517776	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.568734	6.211762	0.262135
0.000774	0.628787	14.826453	
0.25000	0.568734	11.124084	0.262135
0.000774	0.307183	28.016155	
0.50000	0.568734	22.452034	0.262135
0.000774	0.046070	35.150113	
0.75000	0.568734	34.776529	0.262135
0.000774	0.538916	26.031282	
1.00000	0.568734	45.536163	0.262135
0.000774	1.046462	11.273449	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.594620	-44.173442	-0.413931
-0.000882	-1.015384	-33.268585	
0.25000	-0.594620	-33.347840	-0.413931
-0.000882	-0.502083	-17.350608	
0.50000	-0.594620	-21.024074	-0.413931
-0.000882	-0.037384	-17.707108	
0.75000	-0.594620	-9.729355	-0.413931
-0.000882	-0.355892	-18.202896	
1.00000	-0.594620	-5.052963	-0.413931
-0.000882	-0.680314	-35.698311	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.263515	0.352760	0.052527
3.17E-07	0.123571	2.681859	
0.25000	0.263515	0.361211	0.052527
3.17E-07	0.058027	2.371577	
0.50000	0.263515	0.380700	0.052527
3.17E-07	0.007823	2.119221	
0.75000	0.263515	0.401885	0.052527
3.17E-07	0.134400	1.902824	
1.00000	0.263515	0.420415	0.052527
3.17E-07	0.263118	1.732294	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.244883	-0.198563	-0.103322
-0.000661	-0.250495	-2.562297	
0.25000	-0.244883	-0.179938	-0.103322
-0.000661	-0.121703	-2.448399	
0.50000	-0.244883	-0.158736	-0.103322
-0.000661	-0.008799	-2.441403	
0.75000	-0.244883	-0.139304	-0.103322
-0.000661	-0.071773	-2.500776	
1.00000	-0.244883	-0.131259	-0.103322
-0.000661	-0.137181	-2.648889	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.331449	1.024569	0.098521
2.10E-06	0.231488	5.567199	
0.25000	0.331449	1.303460	0.098521
2.10E-06	0.109188	5.685100	
0.50000	0.331449	1.946595	0.098521
2.10E-06	0.015699	5.610553	
0.75000	0.331449	2.645680	0.098521
2.10E-06	0.237480	4.774689	
1.00000	0.331449	3.257178	0.098521
2.10E-06	0.462709	3.730302	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.417176	-2.743062	-0.181262
-0.001146	-0.437993	-6.099509	
0.25000	-0.417176	-2.128448	-0.181262
-0.001146	-0.212501	-5.067783	
0.50000	-0.417176	-1.428776	-0.181262
-0.001146	-0.016674	-5.117702	
0.75000	-0.417176	-0.787527	-0.181262
-0.001146	-0.136655	-5.297312	
1.00000	-0.417176	-0.522029	-0.181262
-0.001146	-0.259107	-6.560369	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.434911	1.354409	0.138599
2.87E-06	0.324150	8.589979	
0.25000	0.434911	1.362015	0.138599
2.87E-06	0.151398	7.447983	
0.50000	0.434911	1.379555	0.138599
2.87E-06	0.023374	6.624491	
0.75000	0.434911	1.398621	0.138599
2.87E-06	0.353853	6.158716	
1.00000	0.434911	1.415298	0.138599
2.87E-06	0.691807	5.947898	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.455390	-0.518365	-0.271199
-0.001234	-0.655043	-6.467897	
0.25000	-0.455390	-0.501603	-0.271199
-0.001234	-0.317335	-6.375610	
0.50000	-0.455390	-0.482521	-0.271199
-0.001234	-0.022329	-6.648046	
0.75000	-0.455390	-0.465032	-0.271199
-0.001234	-0.192801	-7.111031	
1.00000	-0.455390	-0.457791	-0.271199
-0.001234	-0.365428	-7.776305	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.601466	6.503217	0.225433
0.000497	0.537634	14.735763	
0.25000	0.601466	11.827541	0.225433
0.000497	0.262355	29.206315	
0.50000	0.601466	24.105577	0.225433
0.000497	0.046086	37.043493	
0.75000	0.601466	37.451741	0.225433
0.000497	0.501186	27.239027	
1.00000	0.601466	49.125794	0.225433
0.000497	0.970049	11.270749	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.572059	-47.848703	-0.383281
-0.001024	-0.939374	-35.462965	
0.25000	-0.572059	-36.115147	-0.383281
-0.001024	-0.464331	-17.809310	
0.50000	-0.572059	-22.757775	-0.383281
-0.001024	-0.037774	-18.110514	
0.75000	-0.572059	-10.515757	-0.383281
-0.001024	-0.310491	-18.554660	
1.00000	-0.572059	-5.447151	-0.383281
-0.001024	-0.589702	-37.276871	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.375409	11.486663	0.205357
0.001545	0.503065	20.232767	
0.25000	0.375409	34.077087	0.205357
0.001545	0.250979	77.586675	
0.50000	0.375409	63.749800	0.205357
0.001545	0.063880	99.469364	
0.75000	0.375409	91.595376	0.205357
0.001545	0.415674	72.556175	
1.00000	0.375409	121.373109	0.205357
0.001545	0.807449	17.307839	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.408164	-120.273324	-0.326133
-0.001329	-0.824509	-83.655285	
0.25000	-0.408164	-90.865331	-0.326133
-0.001329	-0.419148	-32.913251	
0.50000	-0.408164	-62.968354	-0.326133
-0.001329	-0.055276	-32.333386	
0.75000	-0.408164	-33.357181	-0.326133
-0.001329	-0.265142	-32.398043	
1.00000	-0.408164	-11.040386	-0.326133
-0.001329	-0.517934	-83.943977	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.601466	13.415181	0.337156
0.001526	0.816310	18.965830	
0.25000	0.601466	26.869663	0.337156
0.001526	0.406240	58.125247	
0.50000	0.601466	57.896066	0.337156
0.001526	0.067513	79.846454	
0.75000	0.601466	91.621610	0.337156
0.001526	0.623514	55.816689	
1.00000	0.601466	121.121756	0.337156
0.001526	1.205640	15.611812	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.683059	-119.739659	-0.479750
-0.001234	-1.187686	-75.910547	
0.25000	-0.683059	-90.089149	-0.479750
-0.001234	-0.594243	-31.391369	
0.50000	-0.683059	-56.335282	-0.479750
-0.001234	-0.049928	-31.426186	
0.75000	-0.683059	-25.399898	-0.479750
-0.001234	-0.454373	-31.639139	
1.00000	-0.683059	-12.591611	-0.479750
-0.001234	-0.871357	-77.906256	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.601466	13.415181	0.337156
0.001545	0.816310	20.232767	
0.25000	0.601466	34.077087	0.337156
0.001545	0.406240	77.586675	
0.50000	0.601466	63.749800	0.337156
0.001545	0.067513	99.469364	
0.75000	0.601466	91.621610	0.337156
0.001545	0.623514	72.556175	
1.00000	0.601466	121.373109	0.337156
0.001545	1.205640	17.307839	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.683059	-120.273324	-0.479750
-0.001329	-1.187686	-83.655285	
0.25000	-0.683059	-90.865331	-0.479750
-0.001329	-0.594243	-32.913251	
0.50000	-0.683059	-62.968354	-0.479750
-0.001329	-0.055276	-32.333386	
0.75000	-0.683059	-33.357181	-0.479750
-0.001329	-0.454373	-32.398043	
1.00000	-0.683059	-12.591611	-0.479750
-0.001329	-0.871357	-83.943977	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.601466	13.415181	0.337156
0.001545	0.816310	20.232767	
0.25000	0.601466	34.077087	0.337156
0.001545	0.406240	77.586675	
0.50000	0.601466	63.749800	0.337156
0.001545	0.067513	99.469364	
0.75000	0.601466	91.621610	0.337156
0.001545	0.623514	72.556175	
1.00000	0.601466	121.373109	0.337156
0.001545	1.205640	17.307839	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.683059	-120.273324	-0.479750
-0.001329	-1.187686	-83.655285	
0.25000	-0.683059	-90.865331	-0.479750
-0.001329	-0.594243	-32.913251	
0.50000	-0.683059	-62.968354	-0.479750
-0.001329	-0.055276	-32.333386	
0.75000	-0.683059	-33.357181	-0.479750
-0.001329	-0.454373	-32.398043	
1.00000	-0.683059	-12.591611	-0.479750
-0.001329	-0.871357	-83.943977	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 405 ========== LENGTH = 4.972676

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.214725	0.757650	0.134748
0.001204	0.341142	2.751482	
0.25000	0.214725	0.782751	0.134748
0.001204	0.173626	2.047775	
0.50000	0.214725	0.815375	0.134748
0.001204	0.006135	1.373207	
0.75000	0.214725	0.842968	0.134748
0.001204	0.196555	1.111237	
1.00000	0.214725	0.879347	0.134748
0.001204	0.403246	1.072347	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.268592	-0.216163	-0.166280
-8.51E-06	-0.423610	-3.319169	
0.25000	-0.268592	-0.184996	-0.166280
-8.51E-06	-0.216897	-3.368510	
0.50000	-0.268592	-0.154358	-0.166280
-8.51E-06	-0.010116	-3.464429	
0.75000	-0.268592	-0.122678	-0.166280
-8.51E-06	-0.161398	-3.562204	
1.00000	-0.268592	-0.100647	-0.166280
-8.51E-06	-0.328919	-3.722094	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.400466	7.736541	0.190500
0.001472	0.481029	17.323318	
0.25000	0.400466	31.130989	0.190500
0.001472	0.244217	74.118985	
0.50000	0.400466	61.536448	0.190500
0.001472	0.048432	93.526990	
0.75000	0.400466	87.253407	0.190500
0.001472	0.319831	65.038078	
1.00000	0.400466	121.158590	0.190500
0.001472	0.637743	17.050502	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.391952	-119.341133	-0.272545
-8.72E-05	-0.717537	-83.980344	
0.25000	-0.391952	-90.293247	-0.272545
-8.72E-05	-0.378720	-34.058866	
0.50000	-0.391952	-61.738192	-0.272545
-8.72E-05	-0.049261	-27.536696	
0.75000	-0.391952	-32.212570	-0.272545
-8.72E-05	-0.233718	-22.743991	
1.00000	-0.391952	-11.680426	-0.272545
-8.72E-05	-0.466267	-75.841420	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.371402	6.103022	0.212596
0.001303	0.528821	15.165922	
0.25000	0.371402	22.029821	0.212596
0.001303	0.264459	52.396586	
0.50000	0.371402	42.729675	0.212596
0.001303	0.037765	65.360695	
0.75000	0.371402	60.237626	0.212596
0.001303	0.361896	45.378119	
1.00000	0.371402	83.320071	0.212596
0.001303	0.729970	12.581284	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.381428	-81.278547	-0.307530
-0.000534	-0.799440	-60.577098	
0.25000	-0.381428	-61.502921	-0.307530
-0.000534	-0.417142	-26.632758	
0.50000	-0.381428	-42.062811	-0.307530
-0.000534	-0.042441	-22.234344	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.394761	5.341596	0.208143
0.001086	0.513802	13.472044	
0.25000	0.394761	18.557451	0.208143
0.001086	0.254954	44.536016	
0.50000	0.394761	35.733925	0.208143
0.001086	0.032701	54.813980	
0.75000	0.394761	50.261800	0.208143
0.001086	0.344564	38.229580	
1.00000	0.394761	69.415316	0.208143
0.001086	0.695062	10.995452	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.426601	-67.484455	-0.291457
-0.000886	-0.754426	-51.750004	
0.25000	-0.426601	-51.074792	-0.291457
-0.000886	-0.392112	-23.545143	
0.50000	-0.426601	-34.943637	-0.291457
-0.000886	-0.039010	-19.857161	
0.75000	-0.426601	-18.264195	-0.291457
-0.000886	-0.264788	-17.146661	
1.00000	-0.426601	-6.665297	-0.291457
-0.000886	-0.521212	-47.140177	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.175733	6.081073	0.052258
6.23E-05	0.127002	13.030463	
0.25000	0.175733	25.660117	0.052258
6.23E-05	0.062031	61.008926	
0.50000	0.175733	51.106746	0.052258
6.23E-05	0.036686	77.676803	
0.75000	0.175733	72.629522	0.052258
6.23E-05	0.123653	54.093849	
1.00000	0.175733	101.005105	0.052258
6.23E-05	0.238206	13.828273	

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.105205 -99.887395 -0.106228
-0.000260 -0.290101 -68.263995
0.25000 -0.105205 -75.576932 -0.106228
-0.000260 -0.158042 -26.396007
0.50000 -0.105205 -51.678924 -0.106228
-0.000260 -0.034194 -20.849443
0.75000 -0.105205 -26.968640 -0.106228
-0.000260 -0.071442 -16.750443
1.00000 -0.105205 -9.785087 -0.106228
-0.000260 -0.132860 -61.100231

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.188793 6.187971 0.095601
5.80E-05 0.228724 14.126939
0.25000 0.188793 24.411543 0.095601
5.80E-05 0.109776 58.131363
0.50000 0.188793 48.096482 0.095601
5.80E-05 0.036394 73.205022
0.75000 0.188793 68.129220 0.095601
5.80E-05 0.194341 50.905650
1.00000 0.188793 94.540340 0.095601
5.80E-05 0.383690 13.345659

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.180013 -92.915288 -0.165444
-0.000813 -0.439224 -65.906297
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4195

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -0.180013 -70.287857 -0.165444
-0.000813 -0.233585 -26.938853
0.50000 -0.180013 -48.044327 -0.165444
-0.000813 -0.037763 -21.778167
0.75000 -0.180013 -25.044754 -0.165444
-0.000813 -0.131081 -17.965337
1.00000 -0.180013 -9.050832 -0.165444
-0.000813 -0.246669 -59.248603

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.318969 5.370331 0.179759
0.000912 0.443238 13.688861
0.25000 0.318969 18.269909 0.179759
0.000912 0.219662 43.871691
0.50000 0.318969 35.035323 0.179759
0.000912 0.031259 53.833783
0.75000 0.318969 49.216521 0.179759
0.000912 0.316493 37.619590
1.00000 0.318969 67.910665 0.179759
0.000912 0.639039 10.792459

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.348097 -65.945468 -0.268761
-0.000738 -0.697603 -50.163739
0.25000 -0.348097 -49.928613 -0.268761
-0.000738 -0.363518 -22.652510
0.50000 -0.348097 -34.183502 -0.268761
-0.000738 -0.136723 -19.017717
0.75000 -0.348097 -17.903226 -0.268761
-0.000738 -0.229456 -16.445136
1.00000 -0.348097 -6.581908 -0.268761
-0.000738 -0.450645 -45.740143

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.384752 4.645498 0.179646
0.000760 0.439921 12.001231
0.25000 0.384752 15.451625 0.179646
0.000760 0.216478 37.284830
0.50000 0.384752 29.486206 0.179646
0.000760 0.027462 45.627448
0.75000 0.384752 41.375123 0.179646
0.000760 0.305913 32.033912
1.00000 0.384752 57.036262 0.179646
0.000760 0.617198 9.564739

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.393535 -55.295981 -0.258173
-0.001025 -0.666773 -43.374441
0.25000 -0.393535 -41.878475 -0.258173
-0.001025 -0.345839 -20.260788
0.50000 -0.393535 -28.688614 -0.258173
-0.001025 -0.034210 -17.193926
0.75000 -0.393535 -15.050437 -0.258173
-0.001025 -0.231929 -14.926330
1.00000 -0.393535 -5.566438 -0.258173
-0.001025 -0.453379 -39.400232

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.206080 0.231435 0.044622
4.90E-07 0.105570 0.907500
0.25000 0.206080 0.256536 0.044622
4.90E-07 0.050055 0.935579
0.50000 0.206080 0.289160 0.044622
4.90E-07 0.002068 0.932951
0.75000 0.206080 0.316753 0.044622
4.90E-07 0.089519 0.889519
1.00000 0.206080 0.353132 0.044622
4.90E-07 0.137438 0.824685
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4196

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.198168 -0.243630 -0.055567
-0.000618 -0.138880 -2.142505
0.25000 -0.198168 -0.212463 -0.055567
-0.000618 -0.069790 -1.961630
0.50000 -0.198168 -0.181824 -0.055567
-0.000618 -0.005221 -1.829365
0.75000 -0.198168 -0.150144 -0.055567
-0.000618 -0.060753 -1.700119
1.00000 -0.198168 -0.128114 -0.055567
-0.000618 -0.116295 -1.633984

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.268165 0.885173 0.082796
2.79E-06 0.195695 2.613538
0.25000 0.268165 1.638214 0.082796
2.79E-06 0.092652 3.972187
0.50000 0.268165 2.616930 0.082796
2.79E-06 0.004901 4.443591
0.75000 0.268165 3.444729 0.082796
2.79E-06 0.126197 3.524645
1.00000 0.268165 4.536098 0.082796
2.79E-06 0.254336 1.960328

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.340723 -3.991971 -0.103652
-0.001152 -0.261149 -6.426300
0.25000 -0.340723 -3.056953 -0.103652
-0.001152 -0.132324 -4.671057
0.50000 -0.340723 -2.137799 -0.103652
-0.001152 -0.010920 -4.314779
0.75000 -0.340723 -1.187403 -0.103652
-0.001152 -0.113092 -4.016289
1.00000 -0.340723 -0.526498 -0.103652
-0.001152 -0.215989 -5.584409

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.305903 1.522380 0.116030
4.15E-06 0.273692 5.172319
0.25000 0.305903 2.719714 0.116030
4.15E-06 0.129292 7.114654
0.50000 0.305903 4.275874 0.116030
4.15E-06 0.008738 7.425420
0.75000 0.305903 5.592074 0.116030
4.15E-06 0.201276 5.496641
1.00000 0.305903 7.327350 0.116030
4.15E-06 0.408680 2.845819

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.314153 -6.290844 -0.167737
-0.001376 -0.425590 -9.786813
0.25000 -0.314153 -4.804165 -0.167737
-0.001376 -0.217080 -7.113847
0.50000 -0.314153 -3.342710 -0.167737
-0.001376 -0.016064 -6.663234
0.75000 -0.314153 -1.831581 -0.167737
-0.001376 -0.159102 -6.302705
1.00000 -0.314153 -0.780741 -0.167737
-0.001376 -0.303256 -8.907597

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.397599 5.054772 0.159092
0.000504 0.386591 12.584290
0.25000 0.397599 17.818803 0.159092
0.000504 0.188696 42.926930
0.50000 0.397599 34.408047 0.159092
0.000504 0.029940 53.122966
0.75000 0.397599 48.439242 0.159092
0.000504 0.281079 37.311604
1.00000 0.397599 66.937940 0.159092
0.000504 0.564030 30.625953
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4197

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.393011 -65.325634 -0.236798
-0.001139 -0.613649 -49.648809
0.25000 -0.393011 -49.477082 -0.236798
-0.001139 -0.319275 -22.286340
0.50000 -0.393011 -33.897420 -0.236798
-0.001139 -0.035783 -18.603700
0.75000 -0.393011 -17.788215 -0.236798
-0.001139 -0.208951 -15.866076
1.00000 -0.393011 -6.585860 -0.236798
-0.001139 -0.404499 -44.715517

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.280490 0.925544 0.231739
0.001275 0.576796 3.168843
0.25000 0.280490 0.936832 0.231739
0.001275 0.288719 2.721397
0.50000 0.280490 0.956815 0.231739
0.001275 0.010150 2.373453
0.75000 0.280490 0.978047 0.231739
0.001275 0.307345 2.140010
1.00000 0.280490 0.995688 0.231739
0.001275 0.626116 2.130188

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.632108 -0.199610 -0.256335
-6.83E-06 -0.648043 -4.669525
0.25000 -0.632108 -0.180518 -0.256335
-6.83E-06 -0.329256 -0.165491
0.50000 -0.632108 -0.158961 -0.256335
-6.83E-06 -0.020080 -5.775414
0.75000 -0.632108 -0.139672 -0.256335
-6.83E-06 -0.287566 -6.488687
1.00000 -0.632108 -0.132790 -0.256335
-6.83E-06 -0.575567 -7.344698

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.688867 8.619000 0.336696
0.001485 0.837320 15.591575
0.25000 0.688867 26.588078 0.336696
0.001485 0.433574 55.824080
0.50000 0.688867 58.401946 0.336696
0.001485 0.057263 75.754420
0.75000 0.688867 92.202860 0.336696
0.001485 0.517583 70.217324
1.00000 0.688867 120.287304 0.336696
0.001485 1.024495 15.222476

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.748556 -119.325841 -0.425012
-5.88E-05 -1.092427 -77.872560
0.25000 -0.748556 -88.930790 -0.425012
-5.88E-05 -0.566432 -34.440527
0.50000 -0.748556 -54.612491 -0.425012
-5.88E-05 0.060795 -29.184220
0.75000 -0.748556 -23.950834 -0.425012
-5.88E-05 -0.429822 -25.141028
1.00000 -0.748556 -12.948444 -0.425012
-5.88E-05 -0.842746 -73.161745

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.649962 7.018343 0.365229
0.001338 0.900571 14.663787
0.25000 0.649962 19.777292 0.365229
0.001338 0.456928 42.683575
0.50000 0.649962 42.366737 0.365229
0.001338 0.048172 56.412641
0.75000 0.649962 66.367084 0.365229
0.001338 0.580436 38.013615
1.00000 0.649962 86.308451 0.365229
0.001338 1.159813 13.060420
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4198

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.715493 -84.793486 -0.477931
-0.000437 -1.218369 -59.918373
0.25000 -0.715493 -63.211473 -0.477931
-0.000437 -0.625411 -29.501974
0.50000 -0.715493 -38.843756 -0.477931
-0.000437 -0.059449 -26.286522
0.75000 -0.715493 -17.040145 -0.477931
-0.000437 0.469455 -24.030261
1.00000 -0.715493 -9.260189 -0.477931
-0.000437 -0.919559 -58.865869

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.651212 6.137127 0.354535
0.001115 0.870064 13.493808
0.25000 0.651212 16.727257 0.354535
0.001115 0.437885 36.548808
0.50000 0.651212 35.476856 0.354535
0.001115 0.041725 47.820479
0.75000 0.651212 55.397527 0.354535
0.001115 0.566393 32.519652
1.00000 0.651212 71.949178 0.354535
0.001115 1.132221 11.833834

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.787767 -70.452933 -0.464961
-0.000788 -1.181097 -51.578218
0.25000 -0.787767 -52.539518 -0.464961
-0.000788 -0.603036 -26.405910
0.50000 -0.787767 -32.313925 -0.464961
-0.000788 -0.055175 -23.850860
0.75000 -0.787767 -14.216581 -0.464961
-0.000788 -0.458546 -22.162201
1.00000 -0.787767 -7.759094 -0.464961
-0.000788 -0.896194 -51.341046

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.432725 5.761793 0.096099
5.15E-05 0.432725 10.059637
0.25000 0.432725 18.358207 0.096099
5.15E-05 0.126075 38.359013
0.50000 0.432725 40.659888 0.096099
5.15E-05 0.035441 52.396007
0.75000 0.432725 64.354499 0.096099
5.15E-05 0.202793 34.639575
1.00000 0.432725 84.041835 0.096099
5.15E-05 0.391576 10.251810

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.117956 -83.701703 -0.163871
-0.000204 -0.425846 -52.764147
0.25000 -0.117956 -62.394620 -0.163871
-0.000204 -0.223833 -22.066721
0.50000 -0.117956 -38.337320 -0.163871
-0.000204 -0.032972 -18.102053
0.75000 -0.117956 -16.811462 -0.163871
-0.000204 -0.131131 -14.334640
1.00000 -0.117956 -9.130614 -0.163871
-0.000204 -0.246765 -48.242715

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.418359 6.056711 0.162193
4.91E-05 0.391725 11.921032
0.25000 0.418359 18.077483 0.162193
4.91E-05 0.199991 38.569565
0.50000 0.418359 39.360001 0.162193
4.91E-05 0.037492 51.693412
0.75000 0.418359 61.971794 0.162193
4.91E-05 0.316491 34.514429
1.00000 0.418359 80.759440 0.162193
4.91E-05 0.622094 11.087597
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4199

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.248404 -79.824177 -0.257133
-0.000704 -0.658431 -53.515852
0.25000 -0.248404 -52.419605 -0.257133
-0.000704 -0.339870 -24.479142
0.50000 -0.248404 -36.532897 -0.257133
-0.000704 -0.041878 -21.011307
0.75000 -0.248404 -15.990748 -0.257133
-0.000704 -0.220492 -18.416919
1.00000 -0.248404 -8.660906 -0.257133
-0.000704 -0.418500 -50.734954

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.611725 5.123873 0.307925
0.000903 0.754483 12.119663
0.25000 0.611725 12.935682 0.307925
0.000903 0.378027 28.718360
0.50000 0.611725 26.766321 0.307925
0.000903 0.034954 36.709482
0.75000 0.611725 41.460802 0.307925
0.000903 0.505107 25.440211
1.00000 0.611725 53.670125 0.307925
0.000903 1.032646 10.380509

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.531789 -52.137472 -0.423474
-0.000640 -1.073815 -40.512277
0.25000 -0.531789 -38.923644 -0.423474
-0.000640 -0.547701 -22.103761
0.50000 -0.531789 -24.004238 -0.423474
-0.000640 -0.048240 -20.578360
0.75000 -0.531789 -10.654734 -0.423474
-0.000640 -0.398519 -19.561630
1.00000 -0.531789 -5.891369 -0.423474
-0.000640 -0.779115 -41.400103

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.676754 4.498970 0.305400
0.000752 0.744992 11.299984
0.25000 0.676754 11.059602 0.305400
0.000752 0.370553 25.137780
0.50000 0.676754 22.675061 0.305400
0.000752 0.033875 31.793817
0.75000 0.676754 35.016004 0.305400
0.000752 0.516347 22.288516
1.00000 0.676754 45.269825 0.305400
0.000752 1.034605 9.631346

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.597972 -43.880504 -0.422788
-0.000938 -1.068043 -35.708267
0.25000 -0.597972 -32.783065 -0.422788
-0.000938 -0.542828 -20.246708
0.50000 -0.597972 -20.253221 -0.422788
-0.000938 -0.045388 -18.992022
0.75000 -0.597972 -9.041837 -0.422788
-0.000938 -0.397717 -18.196207
1.00000 -0.597972 -5.041395 -0.422788
-0.000938 -0.775441 -36.635174

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.344992 0.291325 0.073910
3.01E-07 0.176146 1.764576
0.25000 0.344992 0.303112 0.073910
3.01E-07 0.084010 1.674765
0.50000 0.344992 0.323095 0.073910
3.01E-07 0.002637 1.603395
0.75000 0.344992 0.344327 0.073910
3.01E-07 0.140067 1.545451
1.00000 0.344992 0.361968 0.073910
3.01E-07 0.279799 1.518344
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4200

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.247357 -0.271683 -0.112173
-0.000606 -0.277895 -2.672182
0.25000 -0.247357 -0.252591 -0.112173
-0.000606 -0.138256 -2.590472
0.50000 -0.247357 -0.231034 -0.112173
-0.000606 -0.007487 -2.570473
0.75000 -0.247357 -0.211746 -0.112173
-0.000606 -0.098899 -2.594302
1.00000 -0.247357 -0.204863 -0.112173
-0.000606 -0.191027 -2.692953

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.411658 0.927006 0.137223
1.77E-06 0.327167 3.786206
0.25000 0.411658 1.299481 0.137223
1.77E-06 0.156505 4.195158
0.50000 0.411658 1.958939 0.137223
1.77E-06 0.005918 4.302546
0.75000 0.411658 2.659586 0.137223
1.77E-06 0.243169 3.688151
1.00000 0.411658 3.241739 0.137223
1.77E-06 0.486882 2.973303

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.479720 -2.738023 -0.196053
-0.001135 -0.487824 -6.596591
0.25000 -0.479720 -2.108175 -0.196053
-0.001135 -0.243685 -5.782332
0.50000 -0.479720 -1.396803 -0.196053
-0.001135 -0.016019 -5.839485
0.75000 -0.479720 -0.760286 -0.196053
-0.001135 -0.184319 -6.066583
1.00000 -0.479720 -0.533164 -0.196053
-0.001135 -0.354987 -7.529925

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.548168 1.370227 0.189023
2.80E-06 0.451182 6.003218
0.25000 0.548168 1.380385 0.189023
2.80E-06 0.215803 5.203504
0.50000 0.548168 1.398370 0.189023
2.80E-06 0.010016 4.597711
0.75000 0.548168 1.417479 0.189023
2.80E-06 0.353619 4.340012
1.00000 0.548168 1.433356 0.189023
2.80E-06 0.712221 4.340163

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.428966 -0.407918 -0.287886
-0.001275 -0.718296 -7.805521
0.25000 -0.428966 -0.390734 -0.287886
-0.001275 -0.359394 -8.163359
0.50000 -0.428966 -0.371333 -0.287886
-0.001275 -0.024477 -8.692328
0.75000 -0.428966 -0.353974 -0.287886
-0.001275 -0.253269 -9.399923
1.00000 -0.428966 -0.347780 -0.287886
-0.001275 -0.488669 -10.370189

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.761937 4.593507 0.271555
0.000484 0.659558 11.307429
0.25000 0.761937 11.704386 0.271555
0.000484 0.327474 26.289345
0.50000 0.761937 24.294045 0.271555
0.000484 0.030739 33.831724
0.75000 0.761937 37.670034 0.271555
0.000484 0.485030 23.628436
1.00000 0.761937 48.783853 0.271555
0.000484 0.968676 9.933751
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4201

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.540999 -47.605493 -0.395469
-0.001057 -0.998545 -37.298680
0.25000 -0.540999 -35.577300 -0.395469
-0.001057 -0.506927 -20.437224
0.50000 -0.540999 -21.996566 -0.395469
-0.001057 -0.043317 -18.722617
0.75000 -0.540999 -9.844872 -0.395469
-0.001057 -0.357231 -17.612782
1.00000 -0.540999 -5.508910 -0.395469
-0.001057 -0.692962 -37.308037

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.400466 7.736541 0.212596
0.001472 0.528821 17.323318
0.25000 0.400466 31.130989 0.212596
0.001472 0.264459 74.118985
0.50000 0.400466 61.536448 0.212596
0.001472 0.048432 93.526990
0.75000 0.400466 87.253407 0.212596
0.001472 0.361896 65.038078
1.00000 0.400466 121.158590 0.212596
0.001472 0.729970 17.050502

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.426601 -119.341133 -0.307530
-0.001376 -0.799440 -83.980344
0.25000 -0.426601 -90.293247 -0.307530
-0.001376 -0.417142 -34.058866

```
0.50000    -0.426601   -61.738192    -0.307530
-0.001376   -0.049261   -27.536696
0.75000    -0.426601   -32.212570    -0.307530
-0.001376   -0.266914   -22.743991
1.00000    -0.426601   -11.680426    -0.307530
-0.001376   -0.528351   -75.841420

COMB       DL ---------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.761937    8.619000    0.365229
0.001485    0.900571   15.591575
0.25000    0.761937   26.588078    0.365229
 0.001485    0.456928   55.824080
0.50000    0.761937   58.401946    0.365229
 0.001485    0.057263   75.754420
0.75000    0.761937   92.202860    0.365229
 0.001485    0.580436   50.217324
1.00000    0.761937  120.287304    0.365229
 0.001485    1.159813   15.222476

COMB       DL ---------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.787767 -119.325841   -0.477931
-0.001275   -1.218369   -77.872560
0.25000   -0.787767   -88.930790   -0.477931
-0.001275   -0.625411   -34.440527
0.50000   -0.787767   -54.612491   -0.477931
-0.001275   -0.060795   -29.184220
0.75000   -0.787767   -23.955353   -0.477931
-0.001275   -0.469455   -25.141028
1.00000   -0.787767   -12.948444   -0.477931
-0.001275   -0.919559   -73.161745

COMB       CAR ---------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.761937    8.619000    0.365229
0.001485    0.900571   17.323318
0.25000    0.761937   31.130989    0.365229
 0.001485    0.456928   74.118985
0.50000    0.761937   61.536448    0.365229
 0.001485    0.057263   93.526990
0.75000    0.761937   92.202860    0.365229
 0.001485    0.580436   65.038078
1.00000    0.761937  121.158590    0.365229
 0.001485    1.159813   17.050502
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4202

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       CAR ---------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.787767 -119.341133   -0.477931
-0.001376   -1.218369   -83.980344
0.25000   -0.787767   -90.293247   -0.477931
-0.001376   -0.625411   -34.440527
0.50000   -0.787767   -61.738192   -0.477931
-0.001376   -0.060795   -29.184220
0.75000   -0.787767   -32.212570   -0.477931
-0.001376   -0.469455   -25.141028
1.00000   -0.787767   -12.948444   -0.477931
-0.001376   -0.919559   -75.841420

COMB       DESIGN ------------------ MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.761937    8.619000    0.365229
0.001485    0.900571   17.323318
0.25000    0.761937   31.130989    0.365229
 0.001485    0.456928   74.118985
0.50000    0.761937   61.536448    0.365229
 0.001485    0.057263   93.526990
0.75000    0.761937   92.202860    0.365229
 0.001485    0.580436   65.038078
1.00000    0.761937  121.158590    0.365229
 0.001485    1.159813   17.050502

COMB       DESIGN ------------------ MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.787767 -119.341133   -0.477931
-0.001376   -1.218369   -83.980344
0.25000   -0.787767   -90.293247   -0.477931
-0.001376   -0.625411   -34.440527
0.50000   -0.787767   -61.738192   -0.477931
-0.001376   -0.060795   -29.184220
0.75000   -0.787767   -32.212570   -0.477931
-0.001376   -0.469455   -25.141028
1.00000   -0.787767   -12.948444   -0.477931
-0.001376   -0.919559   -75.841420

ELEM       406 ================== LENGTH
=    3.480724

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.220587    0.527198    0.245926
0.001022    0.436082    1.075309
0.25000    0.220587    0.552945    0.245926
0.001022    0.222082    1.085541
0.50000    0.220587    0.580666    0.245926
0.001022    0.008124    1.078041
0.75000    0.220587    0.609149    0.245926
0.001022    0.240743    1.085951
1.00000    0.220587    0.629335    0.245926
0.001022    0.495362    0.992321

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.333744   -0.307364   -0.292620
-0.000545   -0.523371   -3.746084
0.25000   -0.333744   -0.287933   -0.292620
-0.000545   -0.268754   -3.602773
0.50000   -0.333744   -0.262070   -0.292620
-0.000545   -0.014965   -3.459463
0.75000   -0.333744   -0.231469   -0.292620
-0.000545   -0.205933   -3.380667
1.00000   -0.333744   -0.208863   -0.292620
-0.000545   -0.419926   -3.305669

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.601284   12.399572    0.359948
 0.001255    0.632227   17.061392
0.25000    0.601284   36.395209    0.359948
 0.001255    0.319066   57.853127
0.50000    0.601284   62.232103    0.359948
 0.001255    0.046738   70.746241
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4203

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.75000    0.601284   88.777704    0.359948
 0.001255    0.373468   54.194193
1.00000    0.601284  107.590994    0.359948
 0.001255    0.770873   17.460505

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.446833 -110.122697   -0.462277
-0.000707   -0.857473   -75.864578
0.25000   -0.446833   -92.017299   -0.462277
-0.000707   -0.455213   -40.787058
0.50000   -0.446833   -67.908823   -0.462277
-0.000707   -0.067019   -34.956507
0.75000   -0.446833   -39.388499   -0.462277
-0.000707   -0.320356   -29.151175
1.00000   -0.446833   -18.319324   -0.462277
-0.000707   -0.627420   -53.818730

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.526246    9.169967    0.427501
 0.001102    0.745324   12.595600
0.25000    0.526246   25.506053    0.427501
 0.001102    0.373336   40.476605
0.50000    0.526246   43.095655    0.427501
 0.001102    0.035912   49.277184
0.75000    0.526246   61.167740    0.427501
 0.001102    0.423696   37.995192
1.00000    0.526246   73.975715    0.427501
 0.001102    0.876953   12.971777

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.419877   -74.994115   -0.524684
-0.001044   -0.962487   -55.246027
0.25000   -0.419877   -62.664665   -0.524684
-0.001044   -0.505917   -31.392662
0.50000   -0.419877   -46.255163   -0.524684
-0.001044   -0.059047   -27.450571
0.75000   -0.419877   -26.838698   -0.524684
-0.001044   -0.379484   -23.522703
1.00000   -0.419877   -12.494930   -0.524684
-0.001044   -0.747297   -40.332943

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.539277    7.785428    0.434532
0.001101    0.755218   11.012800
0.25000    0.539277   21.340903    0.434532
 0.001101    0.377093   34.142557
0.50000    0.539277   35.936531    0.434532
 0.001101    0.030700   41.440451
0.75000    0.539277   50.932516    0.434532
 0.001101    0.408588   32.074083
1.00000    0.539277   61.560410    0.434532
 0.001101    0.843787   11.360393

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.527815   -62.501887   -0.503276
-0.001251   -0.918911   -47.188006
0.25000   -0.527815   -52.271066   -0.503276
-0.001251   -0.480970   -27.341443
0.50000   -0.527815   -38.654672   -0.503276
-0.001251   -0.053090   -24.023587
0.75000   -0.527815   -22.543137   -0.503276
-0.001251   -0.386443   -20.722012
1.00000   -0.527815   -10.640861   -0.503276
-0.001251   -0.761089   -34.632576

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.394275   10.235812    0.120660
 0.000116    0.204484   13.835746
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4204

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.25000    0.394275   30.317998    0.120660
 0.000116    0.099524   47.754920
0.50000    0.394275   51.941150    0.120660
 0.000116    0.032531   58.599550
0.75000    0.394275   74.157425    0.120660
 0.000116    0.133849   44.756484
1.00000    0.394275   89.902453    0.120660
 0.000116    0.278683   14.020847

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.093203   -92.121614   -0.171079
-0.000253   -0.332816   -61.104865
0.25000   -0.093203   -76.438463   -0.171079
-0.000253   -0.183946   -31.874618
0.50000   -0.093203   -56.792406   -0.171079
-0.000253   -0.045995   -27.125186
0.75000   -0.093203   -32.923465   -0.171079
-0.000253   -0.121319   -22.399432
1.00000   -0.093203   -15.290465   -0.171079
-0.000253   -0.221163   -43.171853

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.371598    9.796796    0.229812
 0.000102    0.390522   13.360172
0.25000    0.371598   28.488676    0.229812
 0.000102    0.190564   45.276508
0.50000    0.371598   48.614841    0.229812
 0.000102    0.031756   55.362005
0.75000    0.371598   69.293066    0.229812
 0.000102    0.211711   42.468962
1.00000    0.371598   83.948054    0.229812
 0.000102    0.447836   13.928331

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.236684   -85.938266   -0.272222
-0.000720   -0.514623   -59.272320
0.25000   -0.236684   -71.830810   -0.272222
-0.000720   -0.277741   -32.044226
0.50000   -0.236684   -53.054926   -0.272222
-0.000720   -0.051037   -27.602572
0.75000   -0.236684   -30.838041   -0.272222
-0.000720   -0.219477   -23.178870
1.00000   -0.236684   -14.426196   -0.272222
-0.000720   -0.414659   -42.485308

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.469418    8.026993    0.376115
0.000858    0.652565   10.809224
0.25000    0.469418   21.258064    0.376115
 0.000858    0.325285   33.170705
0.50000    0.469418   35.504394    0.376115
 0.000858    0.029052   40.294813
0.75000    0.469418   50.141502    0.376115
 0.000858    0.367149   31.153467
1.00000    0.469418   60.515053    0.376115
 0.000858    0.761743   10.950791

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.419922   -60.982052   -0.456541
-0.001084   -0.837986   -45.782949
0.25000   -0.419922   -50.996072   -0.456541
-0.001084   -0.440720   -26.522479
0.50000   -0.419922   -37.705539   -0.456541
-0.001084   -0.051243   -23.396824
0.75000   -0.419922   -21.979579   -0.456541
-0.001084   -0.336425   -20.287511
1.00000   -0.419922   -10.362145   -0.456541
-0.001084   -0.660318   -33.979107
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4205

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.528190    6.837007    0.389151
0.000942    0.673904    9.583835
0.25000    0.528190   17.920829    0.389151
 0.000942    0.335266   28.313163
0.50000    0.528190   29.855146    0.389151
 0.000942    0.025112   34.276937
0.75000    0.528190   42.116821    0.389151
 0.000942    0.365005   26.614950
1.00000    0.528190   50.806865    0.389151
 0.000942    0.753286    9.674356

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.446018   -51.170627   -0.448767
-0.001255   -0.817656   -39.448160
0.25000   -0.446018   -42.805256   -0.448767
-0.001255   -0.427137   -23.266740
0.50000   -0.446018   -31.671622   -0.448767
-0.001255   -0.045926   -20.604857
0.75000   -0.446018   -18.497803   -0.448767
-0.001255   -0.347956   -17.960240
1.00000   -0.446018    -8.765743   -0.448767
-0.001255   -0.683747   -29.393329

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.240561    0.234564    0.113378
0.000381    0.195124    0.833093
0.25000    0.240561    0.260310    0.113378
0.000381    0.096470    0.870208
0.50000    0.240561    0.288032    0.113378
0.000381    0.001258    0.877585
0.75000    0.240561    0.316515    0.113378
0.000381    0.094282    0.853412
1.00000    0.240561    0.336701    0.113378
0.000381    0.189745    0.821312

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.209569   -0.262592   -0.109705
-0.000536   -0.192130   -1.652179
0.25000   -0.209069   -0.243160   -0.109705
-0.000536   -0.096661   -1.554903
0.50000   -0.209069   -0.217298   -0.109705
-0.000536   -0.004248   -1.492568
0.75000   -0.209069   -0.186697   -0.109705
-0.000536    0.100862   -1.434426
1.00000   -0.209069   -0.164090   -0.109705
-0.000536   -0.199520   -1.411769

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.322521    0.885103    0.209041
0.000533    0.358521    1.973936
0.25000    0.322521    1.657495    0.209041
0.000533    0.176614    3.280572
0.50000    0.322521    2.489154    0.209041
0.000533    0.003429    3.665440
0.75000    0.322521    3.343627    0.209041
0.000533    0.161927    3.140888
1.00000    0.322521    3.949205    0.209041
0.000533    0.329964    2.100827

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.485598   -4.171944   -0.193282
-0.000998   -0.343458   -5.617802
0.25000   -0.485598   -3.588991   -0.193282
-0.000998   -0.175253   -4.377056
0.50000   -0.485598   -2.814054   -0.193282
-0.000998   -0.011366   -4.089067
0.75000   -0.485598   -1.895092   -0.193282
-0.000998   -0.187596   -3.810576
1.00000   -0.485598   -1.216900   -0.193282
-0.000998   -0.369309   -4.518157
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4206

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.408236    1.688658    0.290741
0.000439    0.496733    2.864054
0.25000    0.408236    2.916761    0.290741
0.000439    0.243713    4.941605
0.50000    0.408236    4.239100    0.290741
0.000439    0.005969    5.585116
0.75000    0.408236    5.597711    0.290741
0.000439    0.247317    4.719863
1.00000    0.408236    6.560580    0.290741
0.000439    0.508975    2.882921

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.369738   -6.019447   -0.300979
-0.001205   -0.539647   -8.954292
0.25000   -0.369738   -5.092552   -0.300979
-0.001205   -0.277723   -7.146051
0.50000   -0.369738   -3.858930   -0.300979
-0.001205   -0.019914   -6.846653
0.75000   -0.369738   -2.399253   -0.300979
-0.001205   -0.262914   -6.555531
1.00000   -0.369738   -1.320927   -0.300979
-0.001205   -0.515601   -7.829869

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.638611    7.716625    0.358224
0.000785    0.617754   10.946298
0.25000    0.638611   20.808665    0.358224
 0.000785    0.306045   32.949015
0.50000    0.638611   34.905297    0.358224
 0.000785    0.026560   40.000125
0.75000    0.638611   49.388599    0.358224
 0.000785    0.335318   30.956701
1.00000    0.638611   59.653146    0.358224
 0.000785    0.691450   10.952807

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.441627   -60.403312   -0.412295
-0.001216   -0.754133   -44.760337
0.25000   -0.441627   -50.522264   -0.412295
-0.001216   -0.395356   -25.662474
0.50000   -0.441627   -37.371387   -0.412295
-0.001216   -0.046884   -22.533456
0.75000   -0.441627   -21.810673   -0.412295
-0.001216   -0.324451   -19.424396
1.00000   -0.441627   -10.315313   -0.412295
-0.001216   -0.632816   -32.944672

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.287846    0.548322    0.458363
0.001110    0.802263    2.093608
0.25000    0.287846    0.558060    0.458363
0.001110    0.403509    2.044376
0.50000    0.287846    0.576750    0.458363
0.001110    0.011835    2.022348
0.75000    0.287846    0.596156    0.458363
0.001110    0.382288    2.021310
1.00000    0.287846    0.612536    0.458363
0.001110    0.785156    2.023415

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.866219   -0.342911   -0.462742
-0.000521   -0.824983   -7.299378
0.25000   -0.866219   -0.325168   -0.462742
-0.000521   -0.422241   -7.357445
0.50000   -0.866219   -0.305421   -0.462742
-0.000521   -0.027166   -7.468189
0.75000   -0.866219   -0.287333   -0.462742
-0.000521   -0.394309   -7.611006
1.00000   -0.866219   -0.283628   -0.462742
-0.000521   -0.793143   -7.787293
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4207

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.936361   13.625365    0.675765
 0.001265    1.180019   15.181068
0.25000    0.936361   28.331418    0.675765
 0.001265    0.598294   41.306283
0.50000    0.936361   58.087059    0.675765
 0.001265    0.050962   54.587755
0.75000    0.936361   88.980340    0.675765
 0.001265    0.626843   38.454389
1.00000    0.936361  115.058688    0.675765
 0.001265    1.284703   15.339903

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.940258 -115.231756   -0.764087
-0.000634   -1.390286   -73.092145
0.25000   -0.940258   -86.985560   -0.764087
-0.000634   -0.725880   -43.754264
0.50000   -0.940258   -55.549009   -0.764087
-0.000634   -0.079691   -38.603701
0.75000   -0.940258   -26.752654   -0.764087
-0.000634    0.599162   -33.613644
1.00000   -0.940258   -20.853549   -0.764087
-0.000634   -1.182602   -62.738624

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.864838   10.464509    0.758452
 0.001120    1.318439   13.033882
0.25000    0.864838   20.906545    0.758452
 0.001120    0.662806   31.452108
0.50000    0.864838   42.034545    0.758452
 0.001120    0.041959   40.889338
0.75000    0.864838   63.970328    0.758452
 0.001120    0.708827   29.437858
1.00000    0.864838   82.487265    0.758452
 0.001120    1.455587   13.030810

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.863661   -81.893559   -0.863562
-0.000909   -1.560437   -58.804192
0.25000   -0.863661   -61.837340   -0.863562
-0.000909   -0.808824   -38.353291
0.50000   -0.863661   -39.515809   -0.863562
-0.000909   -0.078622   -35.121830
0.75000   -0.863661   -19.068950   -0.863562
-0.000909   -0.672046   -32.057538
1.00000   -0.863661   -14.880289   -0.863562
-0.000909   -1.328913   -53.232783

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.852580    8.886440    0.755312
0.001084    1.310104   11.825016
0.25000    0.852580   17.553496    0.755312
 0.001084    0.656442   27.115365
0.50000    0.852580   35.090073    0.755312
 0.001084    0.035967   34.961981
0.75000    0.852580   53.297122    0.755312
 0.001084    0.699980   25.492341
1.00000    0.852580   68.666474    0.755312
 0.001084    1.434693   11.955802

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.994629   -68.227342   -0.848675
-0.001106   -1.527622   -51.301006
0.25000   -0.994629   -51.580361   -0.848675
-0.001106   -0.788896   -34.305826
0.50000   -0.994629   -33.053135   -0.848675
-0.001106   -0.071915   -31.629878
0.75000   -0.994629   -16.081916   -0.848675
-0.001106   -0.670361   -29.114707
1.00000   -0.994629   -12.605351   -0.848675
-0.001106   -1.325036   -46.746800
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4208

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.720248    9.737247    0.209223
0.000110    0.360978   10.253075
0.25000    0.720248   20.046265    0.209223
 0.000110    0.183353   26.366667
0.50000    0.720248   40.905118    0.209223
 0.000110    0.028657   37.531642
0.75000    0.720248   62.561464    0.209223
 0.000110    0.240139   26.213102
1.00000    0.720248   80.842516    0.209223
 0.000110    0.492277   10.023156

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.096414   -80.728794   -0.295364
-0.000203   -0.546600   -48.224767
0.25000   -0.096414   -60.928069   -0.295364
-0.000203   -0.290087   -27.821737
```

```
0.50000    -0.096414   -38.890888    -0.295364
-0.000203    -0.043123   -24.372091
0.75000    -0.096414   -18.704499    -0.295364
-0.000203    -0.195895   -21.059124
1.00000    -0.096414   -14.569197    -0.295364
-0.000203    -0.374652   -41.676012

COMB DL-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.658126    9.574054    0.371407
9.10E-05    0.638049   11.102219
0.25000    0.658126   19.411961    0.371407
 9.10E-05    0.318790   28.450914
0.50000    0.658126   39.317587    0.371407
 9.10E-05    0.029614   37.375800
0.75000    0.658126   59.984261    0.371407
 9.10E-05    0.381408   26.619981
1.00000    0.658126   77.429889    0.371407
 9.10E-05    0.783300   11.237741

COMB DL-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.281955   -77.197988   -0.466963
-0.000606    -0.851806   -50.725034
0.25000   -0.281955   -58.302135   -0.466963
-0.000606    -0.445543   -31.358824
0.50000   -0.281955   -37.272030   -0.466963
-0.000606    -0.215519   -26.227935
0.75000   -0.281955   -18.008137   -0.466963
-0.000606    -0.341537   -25.252049
1.00000   -0.281955   -14.061813   -0.466963
-0.000606    -0.661812   -45.125565

COMB DL-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.856266    7.499036    0.655538
0.000839    1.135964   10.373146
0.25000    0.856266   13.892290    0.655538
 0.000839    0.568076   21.138449
0.50000    0.856266   26.828143    0.655538
 0.000839    0.029453   26.694100
0.75000    0.856266   40.258571    0.655538
 0.000839    0.634099   19.701798
1.00000    0.856266   51.595772    0.655538
 0.000839    1.302506    9.747680

COMB DL-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.612863   -50.380793   -0.771092
-0.000957    -1.387179   -41.373116
0.25000   -0.612863   -38.101149   -0.771092
-0.000957    -0.716078   -29.154597
0.50000   -0.612863   -24.434543   -0.771092
-0.000957    -0.064163   -27.569064
0.75000   -0.612863   -11.915726   -0.771092
-0.000957    -0.581894   -26.192483
1.00000   -0.612863    -9.351171   -0.771092
-0.000957    -1.150467   -30.722081
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4209

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.913057    6.438391    0.667140
0.000896    1.154301    9.641767
0.25000    0.913057   11.807671    0.667140
 0.000896    0.575880   18.718318
0.50000    0.913057   22.671657    0.667140
 0.000896    0.025632   23.406261
0.75000    0.913057   33.951009    0.667140
 0.000896    0.647199   17.547712
1.00000    0.913057   43.472385    0.667140
 0.000896    1.324829    9.201405

COMB DL-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.675728   -42.435986   -0.781221
-0.001134    -1.398945   -36.625543
0.25000   -0.675728   -32.123108   -0.781221
-0.001134    -0.718978   -26.422553
0.50000   -0.675728   -20.645410   -0.781221
-0.001134    -0.058878   -25.127351
0.75000   -0.675728   -10.131666   -0.781221
-0.001134    -0.592689   -24.009517
1.00000   -0.675728    -7.977862   -0.781221
-0.001134    -1.171784   -35.417782

COMB DL-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.433556    0.297682    0.183142
0.000345    0.315504    1.548408
0.25000    0.433556    0.306919    0.183142
0.000345    0.157506    1.552581
0.50000    0.433556    0.325610    0.183142
0.000345    0.001555    1.588117
0.75000    0.433556    0.345015    0.183142
0.000345    0.192576    1.601189
1.00000    0.433556    0.361396    0.183142
0.000345    0.387359    1.620836

COMB DL-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.260003   -0.256658   -0.223975
-0.000515    -2.716437   -0.269069
0.25000   -0.260003   -0.238916   -0.223975
-0.000515    -0.197091   -2.792551
0.50000   -0.260003   -0.219169   -0.223975
-0.000515    -0.006630   -2.897710
0.75000   -0.260003   -0.201081   -0.223975
-0.000515    -0.163273   -3.015356
1.00000   -0.260003   -0.197376   -0.223975
-0.000515    -0.322537   -3.161912

COMB DL-G3-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.513858    0.861481    0.337250
0.000480    0.579227    3.016780
0.25000    0.513858    1.166318    0.337250
0.000480    0.285449    3.566928
0.50000    0.513858    1.783112    0.337250
0.000480    0.003818    3.880967
0.75000    0.513858    2.423488    0.337250
0.000480    0.323760    3.637527
1.00000    0.513858    2.964056    0.337250
0.000480    0.655386    3.348761

COMB DL-G3-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.629390   -2.971389   -0.381210
-0.000945    -0.671679    -7.566427
0.25000   -0.629390   -2.385884   -0.381210
-0.000945    -0.339647    -6.991225
0.50000   -0.629390   -1.734247   -0.381210
-0.000945    -0.016969    -6.995643
0.75000   -0.629390   -1.137337   -0.381210
-0.000945    -0.301775    -7.061448
1.00000   -0.629390   -1.015057   -0.381210
-0.000945    -0.595670    -7.879690
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4210

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.741786    1.407609    0.454686
0.000403    0.780064    4.386012
0.25000    0.741786    1.415343    0.454686
0.000403    0.384036    4.081423
0.50000    0.741786    1.432165    0.454686
0.000403    0.006172    4.036645
0.75000    0.741786    1.449629    0.454686
0.000403    0.458194    4.092039
1.00000    0.741786    1.464372    0.454686
0.000403    0.934478    4.217923

COMB DL-G3-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.485772   -0.535797   -0.546948
-0.001081    -0.968537   -10.393330
0.25000   -0.485772   -0.519829   -0.546948
-0.001081    -0.492075   -10.881275
0.50000   -0.485772   -0.502057   -0.546948
-0.001081    -0.029394   -11.483166
0.75000   -0.485772   -0.485778   -0.546948
-0.001081    -0.407066   -12.201638
1.00000   -0.485772   -0.482443   -0.546948
-0.001081    -0.803212   -12.995981

COMB DL-G3-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.088281    6.859259    0.607321
0.000756    1.048802    9.960156
0.25000    1.088281   12.678866    0.607321
 0.000756    0.522502   19.813201
0.50000    1.088281   24.454025    0.607321
 0.000756    0.024464   24.869431
0.75000    1.088281   36.679382    0.607321
 0.000756    0.612699   18.527340
1.00000    1.088281   46.999331    0.607321
 0.000756    1.251457    9.512399

COMB DL-G3-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.590189   -46.000372   -0.737016
-0.001116    -1.319371   -37.310536
0.25000   -0.590189   -34.822543   -0.737016
-0.001116    -0.677805   -26.218739
0.50000   -0.590189   -22.382200   -0.737016
-0.001116    -0.054758   -24.786871
0.75000   -0.590189   -10.986657   -0.737016
-0.001116    -0.542665   -23.548526
1.00000   -0.590189    -8.652213   -0.737016
-0.001116    -1.069753   -35.866435

COMB      DB -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.638611   12.399572    0.434532
0.001255    0.705218   17.061392
0.25000    0.638611   36.395209    0.434532
 0.001255    0.377093   57.853127
0.50000    0.638611   62.232103    0.434532
 0.001255    0.046738   70.746241
0.75000    0.638611   88.777704    0.434532
 0.001255    0.423696   54.194193
1.00000    0.638611  107.590994    0.434532
 0.001255    0.876953   17.460505

COMB      DB -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.527815  -110.122697   -0.524684
-0.001255    -0.962487   -75.864578
0.25000   -0.527815   -92.012299   -0.524684
-0.001255    -0.505917   -40.787058
0.50000   -0.527815   -67.908823   -0.524684
-0.001255    -0.067019   -34.956507
0.75000   -0.527815   -39.388499   -0.524684
-0.001255    -0.386443   -29.151175
1.00000   -0.527815   -18.319324   -0.524684
-0.001255    -0.761089   -53.818730
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4211

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.088281   13.625365    0.758452
0.001265    1.318439   15.181068
0.25000    1.088281   28.331418    0.758452
 0.001265    0.662806   41.306283
0.50000    1.088281   58.087059    0.758452
 0.001265    0.050962   54.587755
0.75000    1.088281   88.980340    0.758452
 0.001265    0.708827   38.454389
1.00000    1.088281  115.058688    0.758452
 0.001265    1.455587   15.339903

COMB      DL -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.994629  -115.231756   -0.863562
-0.001134    -1.560437   -73.091445
0.25000   -0.994629   -86.985560   -0.863562
-0.001134    -0.808824   -43.754264
0.50000   -0.994629   -55.549009   -0.863562
-0.001134    -0.079691   -38.603701
0.75000   -0.994629   -26.752654   -0.863562
-0.001134    -0.672046   -33.613644
1.00000   -0.994629   -20.853549   -0.863562
-0.001134    -1.328913   -62.738624

COMB      CAR -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.088281   13.625365    0.758452
0.001265    1.318439   17.061392
0.25000    1.088281   36.395209    0.758452
 0.001265    0.662806   57.853127
0.50000    1.088281   62.232103    0.758452
 0.001265    0.050962   70.746241
0.75000    1.088281   88.980340    0.758452
 0.001265    0.708827   54.194193
1.00000    1.088281  115.058688    0.758452
 0.001265    1.455587   17.460505

COMB      CAR -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.994629  -115.231756   -0.863562
-0.001255    -1.560437   -75.864578
0.25000   -0.994629   -92.012299   -0.863562
-0.001255    -0.808824   -43.754264
0.50000   -0.994629   -67.908823   -0.863562
-0.001255    -0.079691   -38.603701
0.75000   -0.994629   -39.388499   -0.863562
-0.001255    -0.672046   -33.613644
1.00000   -0.994629   -20.853549   -0.863562
-0.001255    -1.328913   -62.738624

COMB DESIGN -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.088281   13.625365    0.758452
0.001265    1.318439   17.061392
0.25000    1.088281   36.395209    0.758452
 0.001265    0.662806   57.853127
0.50000    1.088281   62.232103    0.758452
 0.001265    0.050962   70.746241
0.75000    1.088281   88.980340    0.758452
 0.001265    0.708827   54.194193
1.00000    1.088281  115.058688    0.758452
 0.001265    1.455587   17.460505

COMB DESIGN -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.994629  -115.231756   -0.863562
-0.001255    -1.560437   -75.864578
0.25000   -0.994629   -92.012299   -0.863562
-0.001255    -0.808824   -43.754264
0.50000   -0.994629   -67.908823   -0.863562
-0.001255    -0.079691   -38.603701
0.75000   -0.994629   -39.388499   -0.863562
-0.001255    -0.672046   -33.613644
1.00000   -0.994629   -20.853549   -0.863562
-0.001255    -1.328913   -62.738624
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4212

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      407 ================= LENGTH
=    3.481038

COMB DB-G1-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.214286    0.230794    0.236458
0.000546    0.408778    0.996946
0.25000    0.214286    0.253399    0.236458
0.000546    0.203014    1.001857
0.50000    0.214286    0.284002    0.236458
0.000546    0.002689    0.985232
0.75000    0.214286    0.309868    0.236458
0.000546    0.231612    0.946578
1.00000    0.214286    0.329302    0.236458
0.000546    0.464188    0.951084

COMB DB-G1-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.320680   -0.648398   -0.267350
-0.001025    -0.466610    -3.335461
0.25000   -0.320680   -0.628216   -0.267350
-0.001025    -0.233967    -3.280504
0.50000   -0.320680   -0.599730   -0.267350
-0.001025    -0.012527    -3.416892
0.75000   -0.320680   -0.571806   -0.267350
-0.001025    -0.208585    -3.553717
1.00000   -0.320680   -0.546256   -0.267350
-0.001025    -0.414362    -3.722591

COMB DB-G1-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.602641   18.349070    0.374908
0.000728    0.620592   17.471723
0.25000    0.602641   39.416437    0.374908
 0.000728    0.304990   54.126511
0.50000    0.602641   67.938080    0.374908
 0.000728    0.040886   70.618634
0.75000    0.602641   92.045749    0.374908
 0.000728    0.353622   57.675767
1.00000    0.602641  110.158433    0.374908
 0.000728    0.711908   16.897724

COMB DB-G1-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.427116  -107.616833   -0.411761
-0.001257    -0.721706   -53.878614
0.25000   -0.427116   -88.806819   -0.411761
-0.001257    -0.370675   -29.030396
0.50000   -0.427116   -62.259557   -0.411761
-0.001257    -0.063763   -34.866083
0.75000   -0.427116   -36.419259   -0.411761
-0.001257    -0.365029   -40.727437
1.00000   -0.427116   -12.420878   -0.411761
-0.001257    -0.691286   -75.835350

COMB DB-G1-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.518530   12.531105    0.456205
0.001045    0.762048   12.989707
0.25000    0.518530   28.873642    0.456205
 0.001045    0.372295   37.896843
0.50000    0.518530   46.291005    0.456205
 0.001045    0.031531   49.075518
0.75000    0.518530   62.703361    0.456205
 0.001045    0.392316   40.163926
1.00000    0.518530   75.034368    0.456205
 0.001045    0.793404   12.310181

COMB DB-G1-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.399344   -73.990884   -0.460920
-0.001105    -0.811328    -40.410553
0.25000   -0.399344   -61.185140   -0.460920
-0.001105    -0.415195    -23.375517
0.50000   -0.399344   -43.111243   -0.460920
-0.001105    -0.056348    -27.325535
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4213

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.75000   -0.399344   -25.520004   -0.460920
-0.001105    -0.433650    -31.291240
1.00000   -0.399344    -9.182050   -0.460920
-0.001105    -0.830659    -55.166802

COMB DB-G1-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.532629   10.665941    0.472773
0.001252    0.791116   11.380121
0.25000    0.532629   22.567195    0.472773
 0.001252    0.385701   31.963666
0.50000    0.532629   38.679476    0.472773
 0.001252    0.028601   41.209178
0.75000    0.532629   52.298239    0.472773
 0.001252    0.387026   33.786757
1.00000    0.532629   62.530351    0.472773
 0.001252    0.778759   10.685195

COMB DB-G1-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.517744   -61.567506   -0.450169
-0.001105    -0.788509    -34.714731
0.25000   -0.517744   -50.941463   -0.450169
-0.001105    -0.400881    -20.581982
0.50000   -0.517744   -35.943974   -0.450169
-0.001105    -0.051893    -23.891230
0.75000   -0.517744   -21.346989   -0.450169
-0.001105    -0.447047    -27.218859
1.00000   -0.517744    -7.789963   -0.450169
-0.001105    -0.858475    -47.073967

COMB DB-G2-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.402238   15.287310    0.152343
0.000254    0.236187   14.029363
0.25000    0.402238   32.918798    0.152343
 0.000254    0.112523   44.725487
0.50000    0.402238   56.788843    0.152343
 0.000254    0.032892   58.545004
0.75000    0.402238   76.964788    0.152343
 0.000254    0.120401   47.715877
1.00000    0.402238   92.123473    0.152343
 0.000254    0.245790   13.822852

COMB DB-G2-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.087087   -89.902750   -0.144085
-0.000115    -0.255865    -43.205307
0.25000   -0.087087   -74.160464   -0.144085
-0.000115    -0.136513    -22.377595
0.50000   -0.087087   -51.941961   -0.144085
-0.000115    -0.045513    -27.102242
0.75000   -0.087087   -30.316798   -0.144085
-0.000115    -0.167245    -31.852190
1.00000   -0.087087   -10.232316   -0.144085
-0.000115    -0.299822    -61.083079

COMB DB-G2-2 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.370729   14.431650    0.281219
0.000720    0.453499   13.942699
0.25000    0.370729   30.842495    0.281219
 0.000720    0.217065   42.399383
0.50000    0.370729   53.059999    0.281219
 0.000720    0.033546   55.221333
0.75000    0.370729   71.839148    0.281219
 0.000720    0.192389   45.166683
1.00000    0.370729   85.948385    0.281219
 0.000720    0.391738   13.173257

COMB DB-G2-2 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.233649   -83.941005   -0.229070
-0.000103    -0.405738    -42.543588
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4214

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.25000   -0.233649   -69.288570   -0.229070
-0.000103    -0.212003    -23.123417
0.50000   -0.233649   -48.608271   -0.229070
-0.000103    -0.051339    -27.538265
0.75000   -0.233649   -28.480235   -0.229070
-0.000103    -0.286005    -31.973711
1.00000   -0.233649    -9.786217   -0.229070
-0.000103    -0.530738    -59.194228

COMB DB-G2-3 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.479701   10.367389    0.411292
0.001086    0.685860   10.968948
0.25000    0.479701   21.983827    0.411292
 0.001086    0.333804   31.054558
0.50000    0.479701   37.710514    0.411292
 0.001086    0.027290   40.087516
0.75000    0.479701   51.003359    0.411292
 0.001086    0.338512   32.850734
1.00000    0.479701   60.990599    0.411292
 0.001086    0.684893   10.655345

COMB DB-G2-3 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.408286   -60.520595   -0.398038
-0.000859    -0.700938    -34.055238
0.25000   -0.408286   -50.148851   -0.398038
-0.000859    -0.358563    -20.161894
0.50000   -0.408286   -35.510275   -0.398038
-0.000859    -0.049512    -23.279775
0.75000   -0.408286   -21.262620   -0.398038
-0.000859    -0.391695    -26.415689
1.00000   -0.408286    -8.030036   -0.398038
-0.000859    -0.749615    -45.685851

COMB DB-G2-4 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.536395    8.760943    0.431677
0.001257    0.721713    9.696716
0.25000    0.536395   18.492168    0.431677
 0.001257    0.350948   26.504241
0.50000    0.536395   31.666596    0.431677
 0.001257    0.025406   34.040856
0.75000    0.536395   42.802167    0.431677
 0.001257    0.347423   27.952116
1.00000    0.536395   51.168594    0.431677
 0.001257    0.698759    9.339841

COMB DB-G2-4 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.434082   -50.804824   -0.403728
-0.000943    -0.706841    -28.473753
0.25000   -0.434082   -42.116293   -0.403728
-0.000943    -0.358861    -17.840759
0.50000   -0.434082   -29.853388   -0.403728
-0.000943    -0.045810    -20.480337
0.75000   -0.434082   -17.917962   -0.403728
-0.000943    -0.408452    -23.138698
1.00000   -0.434082    -6.832672   -0.403728
-0.000943    -0.784115    -39.316222

COMB DB-G3-1 -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.239612    0.146749    0.132268
0.000536    0.223683    0.832473
0.25000    0.239612    0.169354    0.132268
0.000536    0.108565    0.810485
0.50000    0.239612    0.199957    0.132268
0.000536    0.004090    0.780476
0.75000    0.239612    0.225823    0.132268
0.000536    0.103662    0.726673
1.00000    0.239612    0.245257    0.132268
0.000536    0.203200    0.674919
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4215

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.205998   -0.325635   -0.114378
-0.000381    -0.194955    -1.436846
0.25000   -0.205998   -0.305453   -0.114378
-0.000381    -0.095419    -1.413813
```

0.50000	-0.205998	-0.276968	-0.114378
-0.000381	-0.006603	-1.451747	
0.75000	-0.205998	-0.249243	-0.114378
-0.000381	-0.121652	-1.494263	
1.00000	-0.205998	-0.223494	-0.114378
-0.000381	-0.236759	-1.572552	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.322865	1.196498	0.246355
0.000999	0.414705	2.115246	
0.25000	0.322865	1.874632	0.246355
0.000999	0.200634	3.064453	
0.50000	0.322865	2.792711	0.246355
0.000999	0.007790	3.514973	
0.75000	0.322865	3.568708	0.246355
0.000999	0.169581	3.025567	
1.00000	0.322865	4.151735	0.246355
0.000999	0.334231	1.696307	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.490414	-3.932925	-0.189196
-0.000532	-0.324371	-4.565329	
0.25000	-0.490414	-3.327452	-0.189196
-0.000532	-0.159945	-3.766003	
0.50000	-0.490414	-2.472895	-0.189196
-0.000532	-0.014548	-4.015098	
0.75000	-0.490414	-1.641157	-0.189196
-0.000532	-0.228696	-4.274138	
1.00000	-0.490414	-0.868677	-0.189196
-0.000532	-0.443088	-5.486521	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.401172	1.311059	0.342487
0.001206	0.574243	2.905525	
0.25000	0.401172	2.389292	0.342487
0.001206	0.276714	4.616029	
0.50000	0.401172	3.849037	0.342487
0.001206	0.010401	5.355942	
0.75000	0.401172	5.082874	0.342487
0.001206	0.240838	4.596702	
1.00000	0.401172	6.009886	0.342487
0.001206	0.482319	2.562244	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.365549	-6.540343	-0.277483
-0.000440	-0.483613	-7.896716	
0.25000	-0.365549	-5.577642	-0.277483
-0.000440	-0.242493	-6.480253	
0.50000	-0.365549	-4.218895	-0.277483
-0.000440	-0.022687	-6.742611	
0.75000	-0.365549	-2.896433	-0.277483
-0.000440	-0.320268	-7.014469	
1.00000	-0.365549	-1.668190	-0.277483
-0.000440	-0.618320	-8.794738	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.645704	10.304925	0.407952
0.001219	0.677747	10.976820	
0.25000	0.645704	21.799298	0.407952
0.001219	0.328517	30.847495	
0.50000	0.645704	37.360731	0.407952
0.001219	0.028713	39.766910	
0.75000	0.645704	50.513896	0.407952
0.001219	0.321598	32.636756	
1.00000	0.645704	60.396192	0.407952
0.001219	0.646055	10.673000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4216
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.431514	-59.644945	-0.372864
-0.000787	-0.652012	-33.024102	
0.25000	-0.431514	-49.382186	-0.372864
-0.000787	-0.331484	-19.325777	
0.50000	-0.431514	-34.897431	-0.372864
-0.000787	-0.048103	-22.419097	
0.75000	-0.431514	-20.799488	-0.372864
-0.000787	-0.391038	-25.534485	
1.00000	-0.431514	-7.705951	-0.372864
-0.000787	-0.746063	-44.618177	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.279500	0.330834	0.474320
0.000522	0.810936	1.982227	
0.25000	0.279500	0.334535	0.474320
0.000522	0.329151	1.989922	
0.50000	0.279500	0.352625	0.474320
0.000522	0.003526	1.981368	
0.75000	0.279500	0.372373	0.474320
0.000522	0.367055	2.004535	
1.00000	0.279500	0.390115	0.474320
0.000522	0.736859	2.072177	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.861407	-0.645044	-0.424462
-0.001074	-0.744201	-7.741820	
0.25000	-0.861407	-0.628663	-0.424462
-0.001074	-0.370583	-7.595821	
0.50000	-0.861407	-0.609257	-0.424462
-0.001074	-0.021251	-7.482613	
0.75000	-0.861407	-0.590564	-0.424462
-0.001074	-0.427411	-7.401797	
1.00000	-0.861407	-0.581324	-0.424462
-0.001074	-0.840228	-7.376239	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.933516	20.917578	0.719002
0.000634	1.206140	15.294685	
0.25000	0.933516	26.810408	0.719002
0.000634	0.593205	38.398903	
0.50000	0.933516	55.608429	0.719002
0.000634	0.042090	54.520498	
0.75000	0.933516	87.048542	0.719002
0.000634	0.611012	41.254840	
1.00000	0.933516	115.293788	0.719002
0.000634	1.214784	15.179300	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.926992	-115.098541	-0.698367
-0.001268	-1.223037	-62.700269	
0.25000	-0.926992	-89.020346	-0.698367
-0.001268	-0.621301	-33.594549	
0.50000	-0.926992	-58.124655	-0.698367
-0.001268	-0.019570	-38.637441	
0.75000	-0.926992	-28.366316	-0.698367
-0.001268	-0.680765	-43.836381	
1.00000	-0.926992	-13.656858	-0.698367
-0.001268	-1.306408	-73.220915	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.858578	14.947723	0.818612
0.000910	1.377249	13.002253	
0.25000	0.858578	19.319288	0.818612
0.000910	0.673754	29.374718	
0.50000	0.858578	39.579970	0.818612
0.000910	0.035747	40.792555	
0.75000	0.858578	61.904030	0.818612
0.000910	0.681953	31.336933	
1.00000	0.858578	81.959574	0.818612
0.000910	1.364711	12.984195	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4217
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.849455	-82.510356	-0.786616
-0.001123	-1.377437	-53.203559	
0.25000	-0.849455	-63.993527	-0.786616
-0.001123	-0.696882	-32.053552	
0.50000	-0.849455	-42.056034	-0.786616
-0.001123	-0.071342	-35.166331	
0.75000	-0.849455	-20.926117	-0.786616
-0.001123	-0.766564	-38.441652	
1.00000	-0.849455	-10.481663	-0.786616
-0.001123	-1.479066	-58.934706	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.847607	12.659865	0.828624
0.001107	1.394175	11.948090	
0.25000	0.847607	16.132822	0.828624
0.001107	0.680427	25.435017	
0.50000	0.847607	33.105023	0.828624
0.001107	0.033879	34.855012	
0.75000	0.847607	51.634348	0.828624
0.001107	0.680792	26.970519	
1.00000	0.847607	68.280769	0.828624
0.001107	1.359276	11.720911	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.986949	-68.670771	-0.781281
-0.001090	-1.363586	-46.739869	
0.25000	-0.986949	-53.301508	-0.781281
-0.001090	-0.686969	-29.124695	
0.50000	-0.986949	-35.093039	-0.781281
-0.001090	-0.068897	-31.676165	
0.75000	-0.986949	-17.554872	-0.781281
-0.001090	-0.774702	-34.384190	
1.00000	-0.986949	-8.885809	-0.781281
-0.001090	-1.495921	-51.407992	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.727809	14.577981	0.237773
0.000204	0.387618	10.025341	
0.25000	0.727809	18.708884	0.237773
0.000204	0.189708	26.197258	
0.50000	0.727809	38.896441	0.237773
0.000204	0.029361	37.498097	
0.75000	0.727809	60.936119	0.237773
0.000204	0.235633	28.348185	
1.00000	0.727809	80.736178	0.237773
0.000204	0.467522	10.222599	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.088971	-80.839931	-0.268991
-0.000107	-0.473764	-41.685323	
0.25000	-0.088971	-62.558986	-0.268991
-0.000107	-0.243838	-21.062574	
0.50000	-0.088971	-40.900951	-0.268991
-0.000107	-0.040912	-24.393784	
0.75000	-0.088971	-20.040205	-0.268991
-0.000107	-0.240090	-27.286468	
1.00000	-0.088971	-9.728802	-0.268991
-0.000107	-0.446936	-48.269819	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.660516	14.077415	0.429663
0.000606	0.710421	11.256505	
0.25000	0.660516	18.019540	0.429663
0.000606	0.344911	26.593901	
0.50000	0.660516	37.284548	0.429663
0.000606	0.032988	37.305510	
0.75000	0.660516	58.317036	0.429663
0.000606	0.367700	28.354225	
1.00000	0.660516	77.212254	0.429663
0.000606	0.733634	11.009739	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4218
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.277072	-77.413273	-0.422642
9.14E-05	-0.741719	-45.149004	
0.25000	-0.277072	-59.967747	-0.422642
-9.14E-05	-0.377730	-25.269569	
0.50000	-0.277072	-39.299461	-0.422642
-9.14E-05	-0.054912	-28.262951	
0.75000	-0.277072	-19.392029	-0.422642
-9.14E-05	-0.417595	-31.405212	
1.00000	-0.277072	-9.551845	-0.422642
-9.14E-05	-0.791639	-50.775222	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.858466	9.389374	0.714516
0.000959	1.203089	9.739582	
0.25000	0.858466	11.951200	0.714516
0.000959	0.586720	19.649216	
0.50000	0.858466	24.470742	0.714516
0.000959	0.027444	26.595912	
0.75000	0.858466	38.138897	0.714516
0.000959	0.612423	21.045983	
1.00000	0.858466	50.418127	0.714516
0.000959	1.226764	10.286775	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.603915	-51.590652	-0.706911
-0.000854	-1.236289	-39.710741	
0.25000	-0.603915	-40.253517	-0.706911
-0.000854	-0.623308	-26.164498	
0.50000	-0.603915	-26.822042	-0.706911
-0.000854	-0.059164	-27.585796	
0.75000	-0.603915	-13.885015	-0.706911
-0.000854	-0.666594	-29.219206	
1.00000	-0.603915	-7.490281	-0.706911
-0.000854	-1.288461	-41.461335	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.915603	8.005765	0.738131
0.001136	1.242878	9.215235	
0.25000	0.915603	10.157277	0.738131
0.001136	0.605071	17.500351	
0.50000	0.915603	20.671630	0.738131
0.001136	0.027635	23.297139	
0.75000	0.915603	32.150629	0.738131
0.001136	0.636183	18.584762	
1.00000	0.915603	42.463159	0.738131
0.001136	1.269767	9.502456	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.667619	-43.452168	-0.728892
-0.000909	-1.667620	-35.218675	
0.25000	-0.667619	-33.930842	-0.728892
-0.000909	-0.636807	-24.001177	
0.50000	-0.667619	-22.650616	-0.728892
-0.000909	-0.058110	-25.151361	
0.75000	-0.667619	-11.785644	-0.728892
-0.000909	-0.687796	-26.472983	
1.00000	-0.667619	-6.415122	-0.728892
-0.000909	-1.330334	-36.698151	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.433358	0.190933	0.214267
0.000517	0.361926	1.654507	
0.25000	0.433358	0.194635	0.214267
0.000517	0.174917	1.597305	
0.50000	0.433358	0.212724	0.214267
0.000517	0.007498	1.545124	
0.75000	0.433358	0.232473	0.214267
0.000517	0.206201	1.485075	
1.00000	0.433358	0.250215	0.214267
0.000517	0.404932	1.435859	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4219
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.256013	-0.335474	-0.228447
-0.000345	-0.390255	-3.194746	
0.25000	-0.256013	-0.319093	-0.228447
-0.000345	-0.191536	-3.039272	
0.50000	-0.256013	-0.299666	-0.228447
-0.000345	-0.011717	-2.912113	
0.75000	-0.256013	-0.280994	-0.228447
-0.000345	-0.198155	-2.795627	
1.00000	-0.256013	-0.271754	-0.228447
-0.000345	-0.384976	-2.706194	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.515982	1.009576	0.397875
0.000938	0.670070	3.396460	
0.25000	0.515982	1.131726	0.397875
0.000938	0.323628	3.625899	
0.50000	0.515982	1.728670	0.397875
0.000938	0.012929	3.806238	
0.75000	0.515982	2.380381	0.397875
0.000938	0.335371	3.430820	
1.00000	0.515982	2.962666	0.397875
0.000938	0.661693	2.831987	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.633973	-2.921204	-0.374886
-0.000481	-0.643428	-7.930438	
0.25000	-0.633973	-2.380639	-0.374886
-0.000481	-0.317241	-7.095796	
0.50000	-0.633973	-1.740213	-0.374886
-0.000481	-0.025015	-7.017120	
0.75000	-0.633973	-1.123363	-0.374886
-0.000481	-0.349599	-6.982666	
1.00000	-0.633973	-0.818456	-0.374886
-0.000481	-0.716052	-7.549450	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.741575	0.488633	0.526478
0.001095	0.886936	4.269123	
0.25000	0.741575	0.491965	0.526478
0.001095	0.428065	4.068499	
0.50000	0.741575	0.508245	0.526478
0.001095	0.014502	3.935527	
0.75000	0.741575	0.525019	0.526478
0.001095	0.458822	3.939293	
1.00000	0.741575	0.541987	0.526478
0.001095	0.913910	4.187138	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.483124	-1.417803	-0.522507
-0.000395	-0.904298	-13.042493	
0.25000	-0.483124	-1.403060	-0.522507
-0.000395	-0.449262	-12.245897	
0.50000	-0.483124	-1.385594	-0.522507
-0.000395	-0.036028	-11.522489	
0.75000	-0.483124	-1.368771	-0.522507
-0.000395	-0.488008	-10.912669	
1.00000	-0.483124	-1.360455	-0.522507
-0.000395	-0.946810	-10.410378	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.091909	8.669145	0.680700
0.001119	1.143638	9.541217	
0.25000	1.091909	11.001106	0.680700
0.001119	0.555877	18.488503	
0.50000	1.091909	22.397308	0.680700
0.001119	0.029856	24.759897	
0.75000	1.091909	34.839061	0.680700
0.001119	0.609445	19.687851	
1.00000	1.091909	46.016514	0.680700
0.001119	1.213189	9.789752	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4220
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.581584	-46.966658	-0.694896
-0.000739	-1.208067	-35.902204	
0.25000	-0.581584	-36.646770	-0.694896
-0.000739	-0.605474	-23.562186	
0.50000	-0.581584	-24.420460	-0.694896
-0.000739	-0.056415	-24.818794	
0.75000	-0.581584	-12.644233	-0.694896
-0.000739	-0.637573	-26.264167	
1.00000	-0.581584	-6.823279	-0.694896
-0.000739	-1.230431	-37.363725	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.645704	18.349070	0.472773
0.001257	0.791116	17.471723	
0.25000	0.645704	39.416437	0.472773
0.001257	0.385701	54.126511	
0.50000	0.645704	67.938080	0.472773
0.001257	0.040886	70.618634	
0.75000	0.645704	92.045749	0.472773
0.001257	0.392316	57.675767	
1.00000	0.645704	110.158433	0.472773
0.001257	0.793404	16.897724	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.517744	-107.616833	-0.460920
-0.001257	-0.811328	-53.878814	
0.25000	-0.517744	-88.806819	-0.460920
-0.001257	-0.415195	-29.030386	
0.50000	-0.517744	-62.258557	-0.460920
-0.001257	-0.063763	-34.866083	
0.75000	-0.517744	-36.419259	-0.460920
-0.001257	-0.447047	-40.737437	
1.00000	-0.517744	-12.420778	-0.460920
-0.001257	-0.858475	-75.835350	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.091909	20.917578	0.828624
0.001136	1.394175	15.294685	
0.25000	1.091909	26.810408	0.828624
0.001136	0.680427	38.398903	
0.50000	1.091909	55.608429	0.828624
0.001136	0.042090	54.520498	
0.75000	1.091909	87.048542	0.828624
0.001136	0.681953	41.254840	
1.00000	1.091909	115.293788	0.828624
0.001136	1.364711	15.179300	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.986949	-115.098541	-0.786616
-0.001268	-1.377437	-62.700269	
0.25000	-0.986949	-89.020346	-0.786616
-0.001268	-0.696882	-33.594549	
0.50000	-0.986949	-58.124655	-0.786616
-0.001268	-0.071342	-38.637441	
0.75000	-0.986949	-28.366316	-0.786616
-0.001268	-0.774702	-43.836381	
1.00000	-0.986949	-13.656858	-0.786616
-0.001268	-1.495921	-73.220915	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.091909	20.917578	0.828624
0.001257	1.394175	17.471723	
0.25000	1.091909	39.416437	0.828624
0.001257	0.680427	54.126511	
0.50000	1.091909	67.938080	0.828624
0.001257	0.042090	70.618634	
0.75000	1.091909	92.045749	0.828624
0.001257	0.681953	57.675767	
1.00000	1.091909	115.293788	0.828624
0.001257	1.364711	16.897724	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4221
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.986949	-115.098541	-0.786616
-0.001268	-1.377437	-62.700269	
0.25000	-0.986949	-89.020346	-0.786616
-0.001268	-0.696882	-33.594549	
0.50000	-0.986949	-62.258557	-0.786616
-0.001268	-0.071342	-38.637441	
0.75000	-0.986949	-36.419259	-0.786616
-0.001268	-0.774702	-43.836381	
1.00000	-0.986949	-13.656858	-0.786616
-0.001268	-1.495921	-75.835350	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.091909	20.917578	0.828624
0.001257	1.394175	17.471723	
0.25000	1.091909	39.416437	0.828624
0.001257	0.680427	54.126511	
0.50000	1.091909	67.938080	0.828624
0.001257	0.042090	70.618634	
0.75000	1.091909	92.045749	0.828624
0.001257	0.681953	57.675767	
1.00000	1.091909	115.293788	0.828624
0.001257	1.364711	16.897724	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.986949	-115.098541	-0.786616
-0.001268	-1.377437	-62.700269	
0.25000	-0.986949	-89.020346	-0.786616
-0.001268	-0.696882	-33.594549	
0.50000	-0.986949	-62.258557	-0.786616
-0.001268	-0.071342	-38.637441	
0.75000	-0.986949	-36.419259	-0.786616
-0.001268	-0.774702	-43.836381	
1.00000	-0.986949	-13.656858	-0.786616
-0.001268	-1.495921	-75.835350	

ELEM 408 ========== LENGTH = 4.972999

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.188816	0.104601	0.119348
8.52E-06	0.296086	0.911622	
0.25000	0.188816	0.126630	0.119348
8.52E-06	0.147711	0.957684	
0.50000	0.188816	0.158309	0.119348
8.52E-06	0.003108	1.362067	
0.75000	0.188816	0.188949	0.119348
8.52E-06	0.156446	2.029513	
1.00000	0.188816	0.220120	0.119348
8.52E-06	0.315832	2.727492	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.220768	-0.875191	-0.128192
-0.001206	-0.321867	-3.685291	
0.25000	-0.220768	-0.838805	-0.128192
-0.001206	-0.162529	-3.524040	
0.50000	-0.220768	-0.811212	-0.128192
-0.001206	-0.007671	-3.424956	
0.75000	-0.220768	-0.778588	-0.128192
-0.001206	-0.149037	-3.327975	
1.00000	-0.220768	-0.753484	-0.128192
-0.001206	-0.297433	-3.277571	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.374647	11.684105	0.203557
8.72E-05	0.479862	16.848834	
0.25000	0.374647	32.215095	0.203557
8.72E-05	0.248033	64.947041	

0.50000	0.374647	61.739702	0.203557
8.72E-05	0.045719	93.509834	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.374647	90.295590	0.203557
8.72E-05	0.234952	74.099230	
1.00000	0.374647	119.347791	0.203557
8.72E-05	0.469187	17.295500	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.322669	-121.163504	-0.191811
-0.001477	-0.484892	-75.793400	
0.25000	-0.322669	-87.251409	-0.191811
-0.001477	-0.246478	-22.682120	
0.50000	-0.322669	-61.534493	-0.191811
-0.001477	-0.046268	-27.481338	
0.75000	-0.322669	-31.129564	-0.191811
-0.001477	-0.281021	-34.007371	
1.00000	-0.322669	-7.732275	-0.191811
-0.001477	-0.534103	-83.919083	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.334173	8.001003	0.250851
0.000534	0.600639	12.257895	
0.25000	0.334173	21.978378	0.250851
0.000534	0.303245	45.302393	
0.50000	0.334173	42.078553	0.250851
0.000534	0.035303	65.329079	
0.75000	0.334173	61.519230	0.250851
0.000534	0.246850	52.902504	
1.00000	0.334173	81.297794	0.250851
0.000534	0.500961	15.128027	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.311903	-83.326550	-0.206673
-0.001307	-0.527007	-55.110053	
0.25000	-0.311903	-60.239399	-0.206673
-0.001307	-0.270035	-18.911478	
0.50000	-0.311903	-42.731477	-0.206673
-0.001307	-0.039973	-22.138545	
0.75000	-0.311903	-22.031984	-0.206673
-0.001307	-0.336141	-26.541578	
1.00000	-0.311903	-6.103251	-0.206673
-0.001307	-0.647985	-60.481201	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.360731	6.685881	0.262825
0.000887	0.631617	10.652437	
0.25000	0.360731	18.284129	0.262825
0.000887	0.316905	36.075118	
0.50000	0.360731	34.962397	0.262825
0.000887	0.031566	54.693286	
0.75000	0.360731	51.094623	0.262825
0.000887	0.254564	44.439967	
1.00000	0.360731	67.506623	0.262825
0.000887	0.512805	13.380478	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.367759	-69.423870	-0.209602
-0.001089	-0.529696	-47.022219	
0.25000	-0.367759	-50.266447	-0.209602
-0.001089	-0.269073	-17.023437	
0.50000	-0.367759	-35.738597	-0.209602
-0.001089	-0.037630	-19.740282	
0.75000	-0.367759	-18.562422	-0.209602
-0.001089	-0.349631	-23.433376	
1.00000	-0.367759	-5.344963	-0.209602
-0.001089	-0.676372	-51.635719	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.177601	9.783475	0.094280
0.000260	0.210410	13.818386	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.177601	26.966064	0.094280
0.000260	0.110990	54.085511	
0.50000	0.177601	51.675499	0.094280
0.000260	0.036909	77.667377	
0.75000	0.177601	75.574204	0.094280
0.000260	0.072192	61.003968	
1.00000	0.177601	99.888277	0.094280
0.000260	0.144031	13.026671	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.085618	-101.014681	-0.060542
-6.45E-05	-0.157048	-61.075226	
0.25000	-0.085618	-72.633314	-0.060542
-6.45E-05	-0.081783	-16.715762	
0.50000	-0.085618	-51.110573	-0.060542
-6.45E-05	-0.034174	-20.822129	
0.75000	-0.085618	-25.664388	-0.060542
-6.45E-05	-0.142670	-26.373674	
1.00000	-0.085618	-6.082966	-0.060542
-6.45E-05	-0.259849	-68.235205	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.178116	9.069135	0.169077
0.000814	0.393252	13.165296	
0.25000	0.178116	25.062160	0.169077
0.000814	0.199651	50.843109	
0.50000	0.178116	48.060941	0.169077
0.000814	0.036942	73.137243	
0.75000	0.178116	70.305120	0.169077
0.000814	0.114438	58.107501	
1.00000	0.178116	92.935912	0.169077
0.000814	0.232099	14.107206	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.160557	-94.552877	-0.097163
-6.01E-05	-0.251096	-59.172837	
0.25000	-0.160557	-68.136374	-0.097163
-6.01E-05	-0.130243	-17.882260	
0.50000	-0.160557	-48.103669	-0.097163
-6.01E-05	-0.038166	-21.703672	
0.75000	-0.160557	-24.419142	-0.097163
-6.01E-05	-0.238739	-26.871144	
1.00000	-0.160557	-6.193358	-0.097163
-6.01E-05	-0.448892	-65.834746	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.289152	6.599047	0.229753
0.000738	0.549877	10.645270	
0.25000	0.289152	17.919729	0.229753
0.000738	0.276236	37.559260	
0.50000	0.289152	34.199445	0.229753
0.000738	0.031238	53.765222	
0.75000	0.289152	49.945015	0.229753
0.000738	0.212033	43.838750	
1.00000	0.289152	65.964249	0.229753
0.000738	0.431027	13.654510	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.297428	-67.919381	-0.177925
-0.000915	-0.454008	-45.635139	
0.25000	-0.297428	-49.220426	-0.177925
-0.000915	-0.232794	-16.335362	
0.50000	-0.297428	-35.040251	-0.177925
-0.000915	-0.035399	-18.968714	
0.75000	-0.297428	-18.275130	-0.177925
-0.000915	-0.313288	-22.555065	
1.00000	-0.297428	-5.373366	-0.177925
-0.000915	-0.598859	-50.064092	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.354213	5.581505	0.243067
0.001026	0.584120	9.343766	
0.25000	0.354213	15.064972	0.243067
0.001026	0.292004	31.895895	
0.50000	0.354213	28.702679	0.243067
0.001026	0.028488	45.479626	
0.75000	0.354213	41.892926	0.243067
0.001026	0.229384	37.157486	
1.00000	0.354213	55.312424	0.243067
0.001026	0.462144	11.955878	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.343807	-57.047702	-0.188704
-0.000762	-0.476459	-39.271996	
0.25000	-0.343807	-41.383371	-0.188704
-0.000762	-0.241834	-14.795544	
0.50000	-0.343807	-29.504474	-0.188704
-0.000762	-0.033865	-17.069962	
0.75000	-0.343807	-15.460137	-0.188704
-0.000762	-0.327652	-20.142636	
1.00000	-0.343807	-4.652698	-0.188704
-0.000762	-0.629794	-43.255819	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.196225	0.130383	0.076731
0.000620	0.187361	0.685113	
0.25000	0.196225	0.152412	0.076731
0.000620	0.092015	0.755065	
0.50000	0.196225	0.184091	0.076731
0.000620	0.003758	0.793632	
0.75000	0.196225	0.214730	0.076731
0.000620	0.083939	0.794241	
1.00000	0.196225	0.245901	0.076731
0.000620	0.163977	0.831910	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.184456	-0.360289	-0.064370
-4.93E-07	-0.156134	-1.571455	
0.25000	-0.184456	-0.323903	-0.064370
-4.93E-07	-0.076103	-1.639001	
0.50000	-0.184456	-0.296309	-0.064370
-4.93E-07	-0.006671	-1.770119	
0.75000	-0.184456	-0.263686	-0.064370
-4.93E-07	-0.098640	-1.904796	
1.00000	-0.184456	-0.238582	-0.064370
-4.93E-07	-0.194226	-2.087427	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.258456	0.537969	0.143374
0.001151	0.348739	1.725615	
0.25000	0.258456	1.198838	0.143374
0.001151	0.171230	3.283199	
0.50000	0.258456	2.149201	0.143374
0.001151	0.007402	4.195113	
0.75000	0.258456	3.068382	0.143374
0.001151	0.134904	3.794531	
1.00000	0.258456	4.003538	0.143374
0.001151	0.263419	2.546503	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.330979	-4.546142	-0.103464
-2.88E-06	-0.251089	-5.477623	
0.25000	-0.330979	-3.454551	-0.103464
-2.88E-06	-0.122458	-3.912356	
0.50000	-0.330979	-2.626759	-0.103464
-2.88E-06	-0.012897	-4.213958	
0.75000	-0.330979	-1.648054	-0.103464
-2.88E-06	-0.186093	-4.574276	
1.00000	-0.330979	-0.894922	-0.103464
-2.88E-06	-0.364339	-6.332405	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.282341	0.800853	0.199649
0.001379	0.484346	2.577480	
0.25000	0.282341	1.851634	0.199649
0.001379	0.237284	5.301296	
0.50000	0.282341	3.362711	0.199649
0.001379	0.010840	7.221766	
0.75000	0.282341	4.824209	0.199649
0.001379	0.162989	6.941426	
1.00000	0.282341	6.311108	0.199649
0.001379	0.328678	5.105587	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.289895	-7.340424	-0.133364
-4.29E-06	-0.334543	-8.769193	
0.25000	-0.289895	-5.604794	-0.133364
-4.29E-06	-0.168604	-6.168090	
0.50000	-0.289895	-4.288596	-0.133364
-4.29E-06	-0.017888	-6.653248	
0.75000	-0.289895	-2.732464	-0.133364
-4.29E-06	-0.260455	-6.989709	
1.00000	-0.289895	-1.534985	-0.133364
-4.29E-06	-0.508610	-9.667053	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.384767	6.601669	0.237104
0.001141	0.563978	10.682495	
0.25000	0.384767	17.803395	0.237104
0.001141	0.280897	37.148236	
0.50000	0.384767	33.912046	0.237104
0.001141	0.031895	52.949810	
0.75000	0.384767	49.492163	0.237104
0.001141	0.215168	42.779056	
1.00000	0.384767	65.343068	0.237104
0.001141	0.431636	12.522322	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.349212	-66.952578	-0.175899
-0.000506	-0.492202	-44.584388	
0.25000	-0.349212	-48.450109	-0.175899
-0.000506	-0.224438	-15.731557	
0.50000	-0.349212	-34.418938	-0.175899
-0.000506	-0.036325	-18.476928	
0.75000	-0.349212	-17.829983	-0.175899
-0.000506	-0.321352	-22.166926	
1.00000	-0.349212	-5.373366	-0.175899
-0.000506	-0.616069	-49.528358	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.248117	0.134992	0.250837
6.84E-06	0.618147	2.024649	
0.25000	0.248117	0.141875	0.250837
6.84E-06	0.306465	2.070178	
0.50000	0.248117	0.161163	0.250837
6.84E-06	0.003974	2.298755	
0.75000	0.248117	0.182720	0.250837
6.84E-06	0.244161	2.640196	
1.00000	0.248117	0.201812	0.250837
6.84E-06	0.495356	3.077414	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.590457	-0.970637	-0.201743
-0.001277	-0.507334	-7.351945	
0.25000	-0.590457	-0.952996	-0.201743
-0.001277	-0.256190	-6.524837	
0.50000	-0.590457	-0.931767	-0.201743
-0.001277	-0.014859	-5.838445	
0.75000	-0.590457	-0.911781	-0.201743
-0.001277	-0.317436	-5.254215	
1.00000	-0.590457	-0.900491	-0.201743
-0.001277	-0.629300	-4.781603	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.646887	12.957374	0.387502
5.88E-05	0.937791	15.127232	
0.25000	0.646887	23.914350	0.387502
5.88E-05	0.478851	50.102083	
0.50000	0.646887	54.620360	0.387502
5.88E-05	0.050841	75.627019	
0.75000	0.646887	88.939273	0.387502
5.88E-05	0.420807	55.688442	
1.00000	0.646887	119.334422	0.387502
5.88E-05	0.819064	15.412276	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.685004	-120.259660	-0.332291
-0.001491	-0.839252	-73.196239	
0.25000	-0.685004	-92.175591	-0.332291
-0.001491	-0.430286	-25.190215	
0.50000	-0.685004	-58.379267	-0.332291
-0.001491	-0.053548	-29.284680	
0.75000	-0.685004	-26.561157	-0.332291
-0.001491	-0.344433	-34.605307	
1.00000	-0.685004	-8.588089	-0.332291
-0.001491	-0.994494	-78.055223	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.600688	9.287604	0.445084
0.000437	1.082207	12.945163	
0.25000	0.600688	17.067607	0.445084
0.000437	0.545090	37.861259	
0.50000	0.600688	38.870417	0.445084
0.000437	0.008279	56.228973	
0.75000	0.600688	63.238570	0.445084
0.000437	0.455745	42.471069	
1.00000	0.600688	84.820653	0.445084
0.000437	0.903575	14.398910	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.648409	-86.274629	-0.368324
-0.001343	-0.931292	-58.924961	
0.25000	-0.648409	-66.333529	-0.368324
-0.001343	-0.475681	-24.115515	
0.50000	-0.648409	-42.336441	-0.368324
-0.001343	-0.053957	-26.423480	
0.75000	-0.648409	-19.743983	-0.368324
-0.001343	-0.582708	-29.700342	
1.00000	-0.648409	-6.982202	-0.368324
-0.001343	-1.134814	-60.143916	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.608509	7.795610	0.458032
0.000789	1.112455	11.705101	
0.25000	0.608509	14.253137	0.458032
0.000789	0.556698	32.339764	
0.50000	0.608509	32.349816	0.458032
0.000789	0.039572	47.593179	
0.75000	0.608509	52.575772	0.458032
0.000789	0.463196	36.286232	
1.00000	0.608509	70.489244	0.458032
0.000789	0.917764	13.182299	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.730769	-71.916434	-0.372366
-0.001119	-0.936091	-51.419425	
0.25000	-0.730769	-55.365003	-0.372366
-0.001119	-0.475711	-22.265132	
0.50000	-0.730769	-35.447038	-0.372366
-0.001119	-0.052589	-23.995660	
0.75000	-0.730769	-16.694938	-0.372366
-0.001119	-0.599701	-26.603890	
1.00000	-0.730769	-6.102456	-0.372366
-0.001119	-1.168124	-51.799615	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.420004	9.141173	0.133501
0.000204	0.316175	10.216963	
0.25000	0.420004	16.822567	0.133501
0.000204	0.166067	34.586591	
0.50000	0.420004	38.347135	0.133501
0.000204	0.035962	52.329790	
0.75000	0.420004	62.404865	0.133501
0.000204	0.163710	38.284693	
1.00000	0.420004	83.712017	0.133501
0.000204	0.309948	9.953008	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.092411	-84.037449	-0.125920
-5.35E-05	-0.320311	-48.274053	
0.25000	-0.092411	-64.350375	-0.125920
-5.35E-05	-0.166880	-14.959380	
0.50000	-0.092411	-40.658983	-0.125920
-5.35E-05	-0.032107	-18.147491	
0.75000	-0.092411	-18.354327	-0.125920
-5.35E-05	-0.186596	-22.143767	
1.00000	-0.092411	-5.732116	-0.125920
-5.35E-05	-0.351454	-52.840472	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.393926	8.688595	0.244565
0.000705	0.586417	11.017406	
0.25000	0.393926	16.018481	0.244565
0.000705	0.297554	34.401643	
0.50000	0.393926	36.559876	0.244565
0.000705	0.039341	51.544326	
0.75000	0.393926	59.518195	0.244565
0.000705	0.247269	38.398841	
1.00000	0.393926	79.851633	0.244565
0.000705	0.481504	11.698477	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.216684	-80.747600	-0.196138
-5.11E-05	-0.497170	-50.798913	
0.25000	-0.216684	-61.960205	-0.196138
-5.11E-05	-0.255974	-18.484764	
0.50000	-0.216684	-39.351483	-0.196138
-5.11E-05	-0.042818	-21.103872	
0.75000	-0.216684	-18.066127	-0.196138
-5.11E-05	-0.330005	-24.607779	
1.00000	-0.216684	-6.042686	-0.196138
-5.11E-05	-0.633058	-53.649551	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.572363	5.919904	0.391868
0.000641	0.953883	10.270575	
0.25000	0.572363	10.683298	0.391868
0.000641	0.476945	25.291290	
0.50000	0.572363	24.032311	0.391868
0.000641	0.033356	36.515971	
0.75000	0.572363	38.951984	0.391868
0.000641	0.408132	28.495711	
1.00000	0.572363	52.165855	0.391868
0.000641	0.815513	11.845151	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.480022	-53.639693	-0.332286
-0.000923	-0.838560	-41.450344	
0.25000	-0.480022	-41.430532	-0.332286
-0.000923	-0.426665	-19.640546	
0.50000	-0.480022	-26.738047	-0.332286
-0.000923	-0.044937	-20.697440	
0.75000	-0.480022	-12.905564	-0.332286
-0.000923	-0.512094	-22.272445	
1.00000	-0.480022	-5.092021	-0.332286
-0.000923	-0.998526	-40.757478	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.641276	5.078540	0.412052
0.000940	1.001552	9.509643	
0.25000	0.641276	9.079006	0.412052
0.000940	0.497839	22.106468	
0.50000	0.641276	20.289978	0.412052
0.000940	0.031422	31.555248	
0.75000	0.641276	32.820946	0.412052
0.000940	0.435212	24.852371	
1.00000	0.641276	43.917521	0.412052
0.000940	0.866842	10.974650	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.550429	-45.240294	-0.351036
-0.000770	-0.880198	-36.710922	
0.25000	-0.550429	-34.986610	-0.351036
-0.000770	-0.444795	-18.292400	
0.50000	-0.550429	-22.647343	-0.351036
-0.000770	-0.044782	-19.120543	
0.75000	-0.550429	-11.030335	-0.351036
-0.000770	-0.538994	-20.417367	
1.00000	-0.550429	-4.468246	-0.351036
-0.000770	-1.050656	-35.903680	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335765	0.225222	0.128402
0.000608	0.310440	1.466951	
0.25000	0.335765	0.232104	0.128402
0.000608	0.150915	1.459199	
0.50000	0.335765	0.251392	0.128402
0.000608	0.006647	1.482754	
0.75000	0.335765	0.272949	0.128402
0.000608	0.157451	1.522832	
1.00000	0.335765	0.292041	0.128402
0.000608	0.309594	1.611400	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.234628	-0.355234	-0.122370
-3.03E-07	-0.299044	-2.735249	
0.25000	-0.234628	-0.337594	-0.122370
-3.03E-07	-0.146728	-2.636259	
0.50000	-0.234628	-0.316365	-0.122370
-3.03E-07	-0.010876	-2.612449	
0.75000	-0.234628	-0.296379	-0.122370
-3.03E-07	-0.168259	-2.634664	
1.00000	-0.234628	-0.285089	-0.122370
-3.03E-07	-0.327942	-2.732499	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.403529	0.569105	0.236518
0.001137	0.572163	2.877091	
0.25000	0.403529	0.796228	0.236518
0.001137	0.278585	3.536844	
0.50000	0.403529	1.432722	0.236518
0.001137	0.011749	4.100018	
0.75000	0.403529	2.144106	0.236518

```
0.001137     0.249801     3.953145
1.00000      0.403529     2.774156      0.236518
0.001137     0.492514     3.531450

COMB DL-G3-2 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000     -0.470314    -3.228989    -0.195426
-1.83E-06    -0.479705    -7.596448
0.25000     -0.470314    -2.646844    -0.195426
-1.83E-06    -0.236581    -5.141733
0.50000     -0.470314    -1.946292    -0.195426
-1.83E-06    -0.021610    -5.916184
0.75000     -0.470314    -1.286746    -0.195426
-1.83E-06    -0.310100    -5.865642
1.00000     -0.470314    -0.914189    -0.195426
-1.83E-06    -0.604080    -6.697787
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4229

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.523457     0.391729     0.305555
0.001277     0.742701     4.231283
0.25000     0.523457     0.397923     0.305555
0.001277     0.362750     4.164053
0.50000     0.523457     0.415282     0.305555
0.001277     0.015851     4.354551
0.75000     0.523457     0.434684     0.305555
0.001277     0.318732     4.906169
1.00000     0.523457     0.451867     0.305555
0.001277     0.639786     5.678410

COMB DL-G3-3 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000     -0.400996    -1.413859    -0.257639
-2.81E-06    -0.640847    -10.459906
0.25000     -0.400996    -1.397982    -0.257639
-2.81E-06    -0.319593    -9.506353
0.50000     -0.400996    -1.378676    -0.257639
-2.81E-06    -0.029430    -8.810237
0.75000     -0.400996    -1.360889    -0.257639
-2.81E-06    -0.396832    -8.296468
1.00000     -0.400996    -1.350728    -0.257639
-2.81E-06    -0.776695    -7.964961

COMB DL-G3-4 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.731861     5.549879     0.386116
0.001059     0.935351     9.811412
0.25000     0.731861     9.885868     0.386116
0.001059     0.464284     23.441239
0.50000     0.731861     22.037115     0.386116
0.001059     0.033989     33.582767
0.75000     0.731861     35.618092     0.386116
0.001059     0.423797     26.195987
1.00000     0.731861     47.646323     0.386116
0.001059     0.839750     10.968975

COMB DL-G3-4 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000     -0.493343    -48.758481    -0.338929
-0.000486    -0.847573    -37.398564
0.25000     -0.493343    -37.644811    -0.338929
-0.000486    -0.427216    -17.710767
0.50000     -0.493343    -24.270637    -0.338929
-0.000486    -0.044743    -18.848733
0.75000     -0.493343    -11.679300    -0.338929
-0.000486    -0.507277    -20.600401
1.00000     -0.493343    -4.566842     -0.338929
-0.000486    -0.986714    -37.490246

COMB      DB ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.384767     11.684105     0.262825
0.001379     0.631617     16.848834
0.25000     0.384767     32.215095     0.262825
0.001379     0.316905     64.947041
0.50000     0.384767     61.739702     0.262825
0.001379     0.045719     93.509834
0.75000     0.384767     90.295590     0.262825
0.001379     0.225964     74.099230
1.00000     0.384767     119.347791    0.262825
0.001379     0.512805     17.295500

COMB      DB ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.367759   -121.163504    -0.209602
-0.001477    -0.529696    -75.793400
0.25000    -0.367759    -87.251409    -0.209602
-0.001477    -0.270035    -22.682120
0.50000    -0.367759    -61.534493    -0.209602
-0.001477    -0.046268    -27.481338
0.75000    -0.367759    -31.129564    -0.209602
-0.001477    -0.349631    -34.007371
1.00000    -0.367759    -7.732275     -0.209602
-0.001477    -0.676372    -83.919083
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4230

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.731861     12.957374    0.458032
0.001277     1.112455     15.127232
0.25000     0.731861     23.914350    0.458032
0.001277     0.556698     50.102083
0.50000     0.731861     54.620360    0.458032
0.001277     0.050841     75.627019
0.75000     0.731861     88.939273    0.458032
0.001277     0.463196     55.688442
1.00000     0.731861     119.334422   0.458032
0.001277     0.917764     15.412276

COMB      DL ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.730769   -120.259660    -0.372366
-0.001491    -0.936691    -73.196239
0.25000    -0.730769    -92.175591    -0.372366
-0.001491    -0.475711    -25.190215
0.50000    -0.730769    -58.379267    -0.372366
-0.001491    -0.053957    -29.284680
0.75000    -0.730769    -26.561157    -0.372366
-0.001491    -0.599701    -34.605907
1.00000    -0.730769    -8.588089     -0.372366
-0.001491    -1.168124    -78.055223

COMB      CAR ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.731861     12.957374    0.458032
0.001379     1.112455     16.848834
0.25000     0.731861     32.215095    0.458032
0.001379     0.556698     64.947041
0.50000     0.731861     61.739702    0.458032
0.001379     0.050841     93.509834
0.75000     0.731861     90.295590    0.458032
0.001379     0.463196     74.099230
1.00000     0.731861     119.347791   0.458032
0.001379     0.917764     17.295500

COMB      CAR ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.730769   -121.163504    -0.372366
-0.001491    -0.936691    -75.793400
0.25000    -0.730769    -92.175591    -0.372366
-0.001491    -0.475711    -25.190215
0.50000    -0.730769    -61.534493    -0.372366
-0.001491    -0.053957    -29.284680
0.75000    -0.730769    -31.129564    -0.372366
-0.001491    -0.599701    -34.605907
1.00000    -0.730769    -8.588089     -0.372366
-0.001491    -1.168124    -83.919083

COMB      DESIGN ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.731861     12.957374    0.458032
0.001379     1.112455     16.848834
0.25000     0.731861     32.215095    0.458032
0.001379     0.556698     64.947041
0.50000     0.731861     61.739702    0.458032
0.001379     0.050841     93.509834
0.75000     0.731861     90.295590    0.458032
0.001379     0.463196     74.099230
1.00000     0.731861     119.347791   0.458032
0.001379     0.917764     17.295500

COMB      DESIGN ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.730769   -121.163504    -0.372366
-0.001491    -0.936691    -75.793400
0.25000    -0.730769    -92.175591    -0.372366
-0.001491    -0.475711    -25.190215
0.50000    -0.730769    -61.534493    -0.372366
-0.001491    -0.053957    -29.284680
0.75000    -0.730769    -31.129564    -0.372366
-0.001491    -0.599701    -34.605907
1.00000    -0.730769    -8.588089     -0.372366
-0.001491    -1.168124    -83.919083
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4231

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      409 ================ LENGTH
=     4.972771

COMB DB-G1-1 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.170231     0.118171     0.116914
5.84E-06     0.293666     2.709120
0.25000     0.170231     0.142114     0.116914
5.84E-06     0.148318     3.009010
0.50000     0.170231     0.173888     0.116914
5.84E-06     0.011306     3.410084
0.75000     0.170231     0.203822     0.116914
5.84E-06     0.143252     3.938607
1.00000     0.170231     0.235382     0.116914
5.84E-06     0.292061     4.507645

COMB DB-G1-1 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.155563    -0.782713    -0.119738
-0.001233    -0.303373    -3.250932
0.25000    -0.155563    -0.750759    -0.119738
-0.001233    -0.154611    -3.047193
0.50000    -0.155563    -0.720878    -0.119738
-0.001233    -0.008913    -2.898714
0.75000    -0.155563    -0.689007    -0.119738
-0.001233    -0.142386    -2.750932
1.00000    -0.155563    -0.664800    -0.119738
-0.001233    -0.287746    -2.656991

COMB DB-G1-2 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.308683     11.039729    0.203296
6.13E-05     0.509250     17.265031
0.25000     0.308683     33.355407    0.203296
6.13E-05     0.269747     72.526280
0.50000     0.308683     62.968454    0.203296
6.13E-05     0.064010     99.439210
0.75000     0.308683     90.866742    0.203296
6.13E-05     0.206798     77.554677
1.00000     0.308683     120.280620   0.203296
6.13E-05     0.416409     20.198012

COMB DB-G1-2 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.250961   -121.383321    -0.172038
-0.001548    -0.442639    -83.890288
0.25000    -0.250961    -91.601528    -0.172038
-0.001548    -0.237370    -32.343506
0.50000    -0.250961    -63.753155    -0.172038
-0.001548    -0.055913    -32.287468
0.75000    -0.250961    -34.078864    -0.172038
-0.001548    -0.273154    -32.874527
1.00000    -0.250961    -11.488483    -0.172038
-0.001548    -0.525887    -83.638964

COMB DB-G1-3 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.288607     7.635424     0.252261
0.000450     0.633322     15.089266
0.25000     0.288607     22.827803    0.252261
0.000450     0.328802     52.907755
0.50000     0.288607     42.988188    0.252261
0.000450     0.056715     71.587674
0.75000     0.288607     61.981174    0.252261
0.000450     0.215610     57.279677
1.00000     0.288607     82.005966    0.252261
0.000450     0.433227     18.964263

COMB DB-G1-3 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.265515    -83.366036    -0.177403
-0.001344    -0.452813    -60.444287
0.25000    -0.265515    -63.090770    -0.177403
-0.001344    -0.241824    -25.212193
0.50000    -0.265515    -44.131766    -0.177403
-0.001344    -0.047859    -25.034811
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4232

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
      T           M2           M3
0.75000    -0.265515    -23.929687    -0.177403
-0.001344    -0.324293    -25.295674
1.00000    -0.265515    -8.550291     -0.177403
-0.001344    -0.637806    -59.717330

COMB DB-G1-4 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.308038     6.401266     0.264968
0.000820     0.666060     13.336635
0.25000     0.308038     19.007709    0.264968
0.000820     0.344250     44.810987
0.50000     0.308038     35.736538    0.264968
0.000820     0.051324     60.468654
0.75000     0.308038     51.496676    0.264968
0.000820     0.232280     48.822372
1.00000     0.308038     68.112992    0.264968
0.000820     0.465124     17.304765

COMB DB-G1-4 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.307986    -69.424447    -0.189244
-0.001120    -0.479531    -51.604782
0.25000    -0.307986    -52.600290    -0.189244
-0.001120    -0.251979    -22.338736
0.50000    -0.307986    -36.868350    -0.189244
-0.001120    -0.044399    -22.160629
0.75000    -0.307986    -20.104923    -0.189244
-0.001120    -0.336254    -22.346444
1.00000    -0.307986    -7.343296     -0.189244
-0.001120    -0.665561    -50.878844

COMB DB-G2-1 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.122797     9.260153     0.097809
0.000210     0.244644     13.014098
0.25000     0.122797     27.936364    0.097809
0.000210     0.134153     59.067143
0.50000     0.122797     52.719815    0.097809
0.000210     0.047121     81.374210
0.75000     0.122797     76.068168    0.097809
0.000210     0.053663     62.718516
1.00000     0.122797     100.684932   0.097809
0.000210     0.104281     14.343417

COMB DB-G2-1 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.084547   -101.252093    -0.044983
-0.000177    -0.162350    -68.230911
0.25000    -0.084547    -76.327416    -0.044983
-0.000177    -0.073501    -25.189251
0.50000    -0.084547    -53.020838    -0.044983
-0.000177    -0.041438    -25.240206
0.75000    -0.084547    -28.186131    -0.044983
-0.000177    -0.140556    -25.829369
1.00000    -0.084547    -8.872237     -0.044983
-0.000177    -0.262115    -68.412752

COMB DB-G2-2 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.141331     8.642631     0.174411
0.000715     0.437908     14.082245
0.25000     0.141331     26.025873    0.174411
0.000715     0.231526     57.061523
0.50000     0.141331     49.093547    0.174411
0.000715     0.052364     78.037268
0.75000     0.141331     70.825475    0.174411
0.000715     0.096941     61.085536
1.00000     0.141331     93.738002    0.174411
0.000715     0.188752     16.563813

COMB DB-G2-2 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.155870    -94.672116    -0.076556
-7.53E-05    -0.196939    -65.824160
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4233

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
      T           M2           M3
0.25000    -0.155870    -71.472993    -0.076556
-7.53E-05    -0.112046    -25.683703
0.50000    -0.155870    -49.779948    -0.076556
-7.53E-05    -0.045659    -25.652615
0.75000    -0.155870    -26.664566    -0.076556
-7.53E-05    -0.213376    -26.122948
1.00000    -0.155870    -9.067338     -0.076556
-7.53E-05    -0.448582    -65.680365

COMB DB-G2-3 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.247994     6.358009     0.237620
0.000649     0.597351     13.616943
0.25000     0.247994     18.662759    0.237620
0.000649     0.309495     44.199141
0.50000     0.247994     34.991240    0.237620
0.000649     0.050510     59.405663
0.75000     0.247994     50.374212    0.237620
0.000649     0.185786     48.036926
1.00000     0.247994     66.592873    0.237620
0.000649     0.372405     17.343717

COMB DB-G2-3 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.258878    -67.900824    -0.152019
-0.000956    -0.388109    -50.032952
0.25000    -0.258878    -51.479296    -0.152019
-0.000956    -0.206940    -21.460413
0.50000    -0.258878    -36.123847    -0.152019
-0.000956    -0.042135    -21.279341
0.75000    -0.258878    -19.761596    -0.152019
-0.000956    -0.302860    -21.453760
1.00000    -0.258878    -7.305376     -0.152019
-0.000956    -0.598142    -49.296210

COMB DB-G2-4 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.301263     5.380125     0.250481
0.000971     0.630349     11.912989
0.25000     0.301263     15.687957    0.250481
0.000971     0.325330     37.700308
0.50000     0.301263     29.366515    0.250481
0.000971     0.045856     50.607677
0.75000     0.301263     42.253010    0.250481
0.000971     0.211797     41.255218
1.00000     0.301263     55.839570    0.250481
0.000971     0.423068     15.721474

COMB DB-G2-4 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.306709    -57.048848    -0.171538
-0.000796    -0.433428    -43.231325
0.25000    -0.306709    -43.292343    -0.171538
-0.000796    -0.226896    -19.277786
0.50000    -0.306709    -30.428906    -0.171538
-0.000796    -0.039770    -19.108202
0.75000    -0.306709    -16.722058    -0.171538
-0.000796    -0.315661    -19.236718
1.00000    -0.306709    -6.287337     -0.171538
-0.000796    -0.626942    -42.543865

COMB DB-G3-1 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.162544     0.104810     0.078006
0.000662     0.197124     0.815009
0.25000     0.162544     0.128754     0.078006
0.000662     0.100228     1.089558
0.50000     0.162544     0.160527     0.078006
0.000662     0.005485     1.363581
0.75000     0.162544     0.190461     0.078006
0.000662     0.090697     1.613265
1.00000     0.162544     0.222021     0.078006
0.000662     0.179500     1.844107
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4234

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.168471    -0.395586    -0.071424
-5.35E-07    -0.175679    -2.090781
0.25000    -0.168471    -0.363632    -0.071424
-5.35E-07    -0.086882    -2.013303
0.50000    -0.168471    -0.333751    -0.071424
-5.35E-07    -0.006886    -1.992146
0.75000    -0.168471    -0.301912    -0.071424
-5.35E-07    -0.093980    -1.971845
1.00000    -0.168471    -0.270703    -0.071424
-5.35E-07    -0.190933    -2.006903

COMB DB-G3-2 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.211788     0.530638     0.146135
0.001180     0.368977     2.517033
0.25000     0.211788     1.248953     0.146135
0.001180     0.187870     4.513553
0.50000     0.211788     2.202163     0.146135
0.001180     0.012738     5.784572
0.75000     0.211788     3.170177     0.146135
0.001180     0.145000     5.642803
1.00000     0.211788     4.046975     0.146135
0.001180     0.286837     4.466882

COMB DB-G3-2 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.273127    -4.502280    -0.114187
-3.52E-06    -0.281110    -6.333511
0.25000    -0.273127    -3.543638    -0.114187
-3.52E-06    -0.139404    -4.609973
0.50000    -0.273127    -2.647232    -0.114187
-3.52E-06    -0.013792    -4.544785
0.75000    -0.273127    -1.692050    -0.114187
-3.52E-06    -0.177189    -4.500572
1.00000    -0.273127    -0.964892    -0.114187
-3.52E-06    -0.358800    -6.073163

COMB DB-G3-3 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.237987     0.838244     0.204297
0.001331     0.515264     5.067623
0.25000     0.237987     1.980366     0.204297
0.001331     0.262147     8.252274
0.50000     0.237987     3.495970     0.204297
0.001331     0.021766     10.211057
0.75000     0.237987     4.923811     0.204297
0.001331     0.158814     9.972570
1.00000     0.237987     6.429221     0.204297
0.001331     0.314754     8.106658

COMB DB-G3-3 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.273252    -7.256511    -0.125541
-5.31E-06    -0.312493    -9.657195
0.25000    -0.273252    -5.732271    -0.125541
-5.31E-06    -0.159922    -6.870503
0.50000    -0.273252    -4.306984    -0.125541
-5.31E-06    -0.019854    -6.719975
0.75000    -0.273252    -2.788246    -0.125541
-5.31E-06    -0.248504    -6.603061
1.00000    -0.273252    -1.632065    -0.125541
-5.31E-06    -0.502350    -9.056187

COMB DB-G3-4 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.310213     6.295675     0.243965
0.001103     0.613929     12.480765
0.25000     0.310213     18.471128    0.243965
0.001103     0.318071     42.851479
0.50000     0.310213     34.628032    0.243965
0.001103     0.048067     57.923884
0.75000     0.310213     49.849362    0.243965
0.001103     0.201301     46.601838
1.00000     0.310213     65.897599    0.243965
0.001103     0.399933     16.082778
Program   SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                                4235

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.320073    -67.018956    -0.161667
-0.000537    -0.407861    -49.511730
0.25000    -0.320073    -50.769984    -0.161667
-0.000537    -0.214315    -21.295734
0.50000    -0.320073    -35.575888    -0.161667
-0.000537    -0.042635    -21.173567
0.75000    -0.320073    -19.385570    -0.161667
-0.000537    -0.309748    -21.403028
1.00000    -0.320073    -7.060238     -0.161667
-0.000537    -0.612931    -49.011067

COMB DL-G1-1 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.250804     0.196275     0.247175
5.51E-06     0.623490     3.032153
0.25000     0.250804     2.204321     0.247175
5.51E-06     0.316167     3.206561
0.50000     0.250804     0.223752     0.247175
5.51E-06     0.012513     3.483868
0.75000     0.250804     0.244957     0.247175
5.51E-06     0.216769     3.864461
1.00000     0.250804     0.263582     0.247175
5.51E-06     0.446198     4.395485

COMB DL-G1-1 ------------------- MIN

REL DIST          P            V2           V3
      T           M2           M3
0.00000    -0.393006    -0.865384    -0.184254
-0.001259    -0.469214    -4.758989
0.25000    -0.393006    -0.846853    -0.184254
-0.001259    -0.239823    -4.230218
0.50000    -0.393006    -0.825667    -0.184254
-0.001259    -0.012101    -3.820463
0.75000    -0.393006    -0.806178    -0.184254
-0.001259    -0.298498    -3.537017
1.00000    -0.393006    -0.797727    -0.184254
-0.001259    -0.605629    -3.421426

COMB DL-G1-2 ------------------- MAX

REL DIST          P            V2           V3
      T           M2           M3
0.00000     0.503984     12.596222    0.381144
5.01E-05     0.959188     15.356417
0.25000     0.503984     25.404477    0.381144
5.01E-05     0.505363     55.562698
0.50000     0.503984     56.338695    0.381144
5.01E-05     0.068026     79.608272
0.75000     0.503984     90.097878    0.381144
```

5.01E-05	0.372137	57.850441	
1.00000	0.503984	119.748923	0.381144
5.01E-05	0.729027	18.668623	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.516886	-121.094983	-0.302888
-0.001512	-0.796516	-78.030246	
0.25000	-0.516886	-91.594213	-0.302888
-0.001512	-0.410349	-31.796735	
0.50000	-0.516886	-57.866667	-0.302888
-0.001512	-0.051524	-31.605781	
0.75000	-0.516886	-26.840029	-0.302888
-0.001512	-0.483486	-31.667766	
1.00000	-0.516886	-13.385585	-0.302888
-0.001512	-0.952619	-76.190346	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.473306	9.173289	0.439176
0.000367	1.107470	14.348296	
0.25000	0.473306	18.267794	0.439176
0.000367	0.575603	42.989993	
0.50000	0.473306	40.232643	0.439176
0.000367	0.061905	60.306865	
0.75000	0.473306	64.203360	0.439176
0.000367	0.398469	45.262098	
1.00000	0.473306	85.257092	0.439176
0.000367	1.086562	18.086567	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4236

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.520382	-86.800048	-0.329056
-0.001302	-0.855684	-60.131415	
0.25000	-0.520382	-65.853018	-0.329056
-0.001302	-0.447735	-26.827895	
0.50000	-0.520382	-41.904765	-0.329056
-0.001302	-0.049101	-26.335863	
0.75000	-0.520382	-19.874293	-0.329056
-0.001302	-0.546016	-26.142761	
1.00000	-0.520382	-10.320963	-0.329056
-0.001302	-1.088507	-57.699229	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.491559	7.722934	0.460240
0.000731	1.157346	13.142336	
0.25000	0.491559	15.271518	0.460240
0.000731	0.597054	36.973592	
0.50000	0.491559	33.502693	0.460240
0.000731	0.056485	51.463244	
0.75000	0.491559	53.398769	0.460240
0.000731	0.416211	39.183308	
1.00000	0.491559	70.873702	0.460240
0.000731	0.828882	16.891575	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.584509	-72.333658	-0.341532
-0.001085	-0.880348	-51.803038	
0.25000	-0.584509	-54.947290	-0.341532
-0.001085	-0.456724	-24.052518	
0.50000	-0.584509	-35.069858	-0.341532
-0.001085	-0.046752	-23.582455	
0.75000	-0.584509	-16.784216	-0.341532
-0.001085	-0.572197	-23.403226	
1.00000	-0.584509	-8.854799	-0.341532
-0.001085	-1.141343	-49.628813	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.256321	8.871243	0.130727
0.000174	0.329420	9.946857	
0.25000	0.256321	17.849894	0.130727
0.000174	0.180820	37.972034	
0.50000	0.256321	39.534936	0.130727
0.000174	0.043592	54.649109	
0.75000	0.256321	63.200293	0.130727
0.000174	0.139864	39.314807	
1.00000	0.256321	83.985825	0.130727
0.000174	0.263438	11.725073	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.123288	-84.685050	-0.110850
-0.000166	-0.301643	-52.842330	
0.25000	-0.123288	-64.004862	-0.110850
-0.000166	-0.163412	-20.633933	
0.50000	-0.123288	-40.361682	-0.110850
-0.000166	-0.031512	-20.669077	
0.75000	-0.123288	-18.611853	-0.110850
-0.000166	-0.173011	-20.836852	
1.00000	-0.123288	-9.180221	-0.110850
-0.000166	-0.332202	-52.132247	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.258305	8.569622	0.245413
0.000613	0.617580	11.692077	
0.25000	0.258305	17.137958	0.245413
0.000613	0.325698	36.558723	
0.50000	0.258305	37.832017	0.245413
0.000613	0.050930	54.704200	
0.75000	0.258305	60.415893	0.245413
0.000613	0.215696	40.318041	
1.00000	0.258305	80.251548	0.245413
0.000613	0.416761	14.399049	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4237

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.228100	-81.297184	-0.172919
-6.00E-05	-0.456915	-53.667554	
0.25000	-0.228100	-61.562059	-0.172919
-6.00E-05	-0.242697	-22.643855	
0.50000	-0.228100	-38.999347	-0.172919
-6.00E-05	-0.039284	-22.489527	
0.75000	-0.228100	-18.243462	-0.172919
-6.00E-05	-0.312289	-22.535039	
1.00000	-0.228100	-9.242845	-0.172919
-6.00E-05	-0.614022	-52.409431	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.429771	5.958604	0.390505
0.000557	0.985538	11.811390	
0.25000	0.429771	11.526816	0.390505
0.000557	0.508758	29.227994	
0.50000	0.429771	24.975040	0.390505
0.000557	0.048632	39.896698	
0.75000	0.429771	39.651378	0.390505
0.000557	0.358167	31.154286	
1.00000	0.429771	52.541760	0.390505
0.000557	0.719314	15.157770	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.430878	-53.933884	-0.297466
-0.000900	-0.768906	-40.695707	
0.25000	-0.430878	-41.108632	-0.297466
-0.000900	-0.399254	-20.006432	
0.50000	-0.430878	-26.446247	-0.297466
-0.000900	-0.039757	-19.477688	
0.75000	-0.430878	-12.957845	-0.297466
-0.000900	-0.480596	-18.966697	
1.00000	-0.430878	-7.108712	-0.297466
-0.000900	-0.963881	-38.083045	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.496593	5.090368	0.419090
0.000893	1.053661	10.951860	
0.25000	0.496593	9.766748	0.419090
0.000893	0.540008	25.668462	
0.50000	0.496593	21.061041	0.419090
0.000893	0.045375	34.755649	
0.75000	0.496593	33.386748	0.419090
0.000893	0.395943	27.580509	
1.00000	0.496593	44.212546	0.419090
0.000893	0.793296	14.356284	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.505260	-45.511827	-0.325558
-0.000750	-0.832973	-35.907978	
0.25000	-0.505260	-34.740896	-0.325558
-0.000750	-0.428588	-18.466094	
0.50000	-0.505260	-22.426740	-0.325558
-0.000750	-0.039130	-17.988874	
0.75000	-0.505260	-11.098704	-0.325558
-0.000750	-0.517392	-17.568229	
1.00000	-0.505260	-6.186396	-0.325558
-0.000750	-1.036678	-33.673255	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.258769	0.159761	0.141381
0.000663	0.350518	1.621735	
0.25000	0.258769	0.167807	0.141381
0.000663	0.174826	1.772080	
0.50000	0.258769	0.187238	0.141381
0.000663	0.007309	1.969443	
0.75000	0.258769	0.208443	0.141381
0.000663	0.161788	2.213734	
1.00000	0.258769	0.227068	0.141381
0.000663	0.322025	2.514603	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4238

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.236234	-0.421401	-0.128943
-3.17E-07	-0.319388	-2.750075	
0.25000	-0.236234	-0.402871	-0.128943
-3.17E-07	-0.159056	-2.625752	
0.50000	-0.236234	-0.381685	-0.128943
-3.17E-07	-0.009025	-2.580101	
0.75000	-0.236234	-0.362196	-0.128943
-3.17E-07	-0.176499	-2.597272	
1.00000	-0.236234	-0.353745	-0.128943
-3.17E-07	-0.352424	-2.706513	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.325773	0.564489	0.256289
0.001148	0.637291	3.541799	
0.25000	0.325773	0.829987	0.256289
0.001148	0.319169	4.543157	
0.50000	0.325773	1.471211	0.256289
0.001148	0.015120	5.345587	
0.75000	0.325773	2.170993	0.256289
0.001148	0.252027	5.402252	
1.00000	0.325773	2.785619	0.256289
0.001148	0.502150	5.269380	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.404486	-3.256341	-0.201595
-2.11E-06	-0.501424	-6.729345	
0.25000	-0.404486	-2.644830	-0.201595
-2.11E-06	-0.250776	-5.515890	
0.50000	-0.404486	-1.945703	-0.201595
-2.11E-06	-0.017172	-5.353936	
0.75000	-0.404486	-1.302563	-0.201595
-2.11E-06	-0.319094	-5.323187	
1.00000	-0.404486	-1.023671	-0.201595
-2.11E-06	-0.637717	-6.349397	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.395452	0.506902	0.319884
0.001236	0.801486	5.686339	
0.25000	0.395452	0.514143	0.319884
0.001236	0.403573	5.841681	
0.50000	0.395452	0.531631	0.319884
0.001236	0.022774	6.260465	
0.75000	0.395452	0.550716	0.319884
0.001236	0.300944	7.051288	
1.00000	0.395452	0.567479	0.319884
0.001236	0.606961	8.167304	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.405128	-1.404625	-0.246278
-2.87E-06	-0.619321	-7.998340	
0.25000	-0.405128	-1.387947	-0.246278
-2.87E-06	-0.431237	-7.315539	
0.50000	-0.405128	-1.368880	-0.246278
-2.87E-06	-0.023404	-6.964345	
0.75000	-0.405128	-1.351340	-0.246278
-2.87E-06	-0.391657	-6.748714	
1.00000	-0.405128	-1.343734	-0.246278
-2.87E-06	-0.789356	-6.822962	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.534781	5.491066	0.396300
0.001026	0.994710	10.959032	
0.25000	0.534781	10.559659	0.396300
0.001026	0.509730	26.880192	
0.50000	0.534781	22.801215	0.396300
0.001026	0.045667	36.649872	
0.75000	0.534781	36.160691	0.396300
0.001026	0.391369	28.769210	
1.00000	0.534781	47.954932	0.396300
0.001026	0.779824	14.269252	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4239

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.487721	-49.106792	-0.319078
-0.000498	-0.815687	-37.504246	
0.25000	-0.487721	-37.432492	-0.319078
-0.000498	-0.418832	-18.828752	
0.50000	-0.487721	-24.085536	-0.319078
-0.000498	-0.039366	-18.436003	
0.75000	-0.487721	-11.807407	-0.319078
-0.000498	-0.491756	-18.203425	
1.00000	-0.487721	-6.483098	-0.319078
-0.000498	-0.982627	-35.849107	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.310213	11.039729	0.264968
0.001331	0.666060	17.265031	
0.25000	0.310213	33.355407	0.264968
0.001331	0.344250	72.526280	
0.50000	0.310213	62.968454	0.264968
0.001331	0.064010	99.439210	
0.75000	0.310213	90.866742	0.264968
0.001331	0.232280	77.554677	
1.00000	0.310213	120.280620	0.264968
0.001331	0.465124	20.198012	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.320073	-121.383321	-0.189244
-0.001548	-0.479531	-83.890288	
0.25000	-0.320073	-91.601528	-0.189244
-0.001548	-0.251979	-32.343506	
0.50000	-0.320073	-63.753155	-0.189244
-0.001548	-0.055913	-32.287468	
0.75000	-0.320073	-34.078864	-0.189244
-0.001548	-0.336254	-32.874527	
1.00000	-0.320073	-11.488483	-0.189244
-0.001548	-0.665561	-83.638964	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.534781	12.596222	0.460240
0.001236	1.157346	15.356417	
0.25000	0.534781	25.404477	0.460240
0.001236	0.597054	55.562698	
0.50000	0.534781	56.338695	0.460240
0.001236	0.068026	79.608272	
0.75000	0.534781	90.097878	0.460240
0.001236	0.416211	57.850441	
1.00000	0.534781	119.748923	0.460240
0.001236	0.828882	18.668623	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.584509	-121.094983	-0.341532
-0.001512	-0.880348	-78.030246	
0.25000	-0.584509	-91.594213	-0.341532
-0.001512	-0.456724	-31.796735	
0.50000	-0.584509	-57.866667	-0.341532
-0.001512	-0.051524	-31.605781	
0.75000	-0.584509	-26.840029	-0.341532
-0.001512	-0.572197	-31.667766	
1.00000	-0.584509	-13.385585	-0.341532
-0.001512	-1.141343	-76.190346	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.534781	12.596222	0.460240
0.001331	1.157346	17.265031	
0.25000	0.534781	33.355407	0.460240
0.001331	0.597054	72.526280	
0.50000	0.534781	62.968454	0.460240
0.001331	0.068026	99.439210	
0.75000	0.534781	90.866742	0.460240
0.001331	0.416211	77.554677	
1.00000	0.534781	120.280620	0.460240
0.001331	0.828882	20.198012	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4240

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.584509	-121.383321	-0.341532
-0.001548	-0.880348	-83.890288	
0.25000	-0.584509	-91.601528	-0.341532
-0.001548	-0.456724	-32.343506	
0.50000	-0.584509	-63.753155	-0.341532
-0.001548	-0.055913	-32.287468	
0.75000	-0.584509	-34.078864	-0.341532
-0.001548	-0.572197	-32.874527	
1.00000	-0.584509	-13.385585	-0.341532
-0.001548	-1.141343	-83.638964	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.534781	12.596222	0.460240
0.001331	1.157346	17.265031	
0.25000	0.534781	33.355407	0.460240
0.001331	0.597054	72.526280	
0.50000	0.534781	62.968454	0.460240
0.001331	0.068026	99.439210	
0.75000	0.534781	90.866742	0.460240
0.001331	0.416211	77.554677	
1.00000	0.534781	120.280620	0.460240
0.001331	0.828882	20.198012	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.584509	-121.383321	-0.341532
-0.001548	-0.880348	-83.890288	
0.25000	-0.584509	-91.601528	-0.341532
-0.001548	-0.456724	-32.343506	
0.50000	-0.584509	-63.753155	-0.341532
-0.001548	-0.055913	-32.287468	
0.75000	-0.584509	-34.078864	-0.341532
-0.001548	-0.572197	-32.874527	
1.00000	-0.584509	-13.385585	-0.341532
-0.001548	-1.141343	-83.638964	

ELEM 410 ========== LENGTH = 4.972670

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.159210	0.159373	0.110332
6.82E-06	0.277130	4.486595	
0.25000	0.159210	0.183410	0.110332
6.82E-06	0.139969	5.033193	
0.50000	0.159210	0.215171	0.110332
6.82E-06	0.018182	5.740312	
0.75000	0.159210	0.245045	0.110332
6.82E-06	0.131087	6.593035	
1.00000	0.159210	0.276642	0.110332
6.82E-06	0.266591	7.487552	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.131245	-1.028940	-0.109062
-0.001082	-0.275761	-2.635677	
0.25000	-0.131245	-0.997230	-0.109062
-0.001082	-0.140168	-2.598320	
0.50000	-0.131245	-0.967372	-0.109062
-0.001082	-0.007954	-2.615351	
0.75000	-0.131245	-0.935602	-0.109062
-0.001082	-0.134422	-2.633488	
1.00000	-0.131245	-0.911434	-0.109062
-0.001082	-0.271567	-2.705710	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.288416	10.971930	0.187769
5.95E-05	0.484489	20.165394	
0.25000	0.288416	33.373643	0.187769
5.95E-05	0.257314	78.988741	
0.50000	0.288416	62.974901	0.187769
5.95E-05	0.076349	103.534259	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4241

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.288416	90.818032	0.187769
5.95E-05	0.189079	82.055749	
1.00000	0.288416	120.265878	0.187769
5.95E-05	0.366674	25.254354	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.232602	-121.867394	-0.150829
-0.001395	-0.393642	-83.618087	
0.25000	-0.232602	-92.313366	-0.150829
-0.001395	-0.211133	-32.254079	
0.50000	-0.232602	-64.486455	-0.150829
-0.001395	-0.053187	-31.578773	
0.75000	-0.232602	-34.876814	-0.150829
-0.001395	-0.249966	-31.935692	
1.00000	-0.232602	-12.3518087	-0.150829
-0.001395	-0.482386	-82.696668	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.271094	7.606883	0.226685
0.000405	0.584723	18.921644	
0.25000	0.271094	22.857835	0.226685
0.000405	0.307509	59.419324	
0.50000	0.271094	43.010194	0.226685
0.000405	0.072848	76.817553	
0.75000	0.271094	61.965930	0.226685
0.000405	0.197490	63.144017	
1.00000	0.271094	82.013546	0.226685
0.000405	0.389907	25.576763	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.262651	-83.992462	-0.160149
-0.001388	-0.413359	-59.692414	
0.25000	-0.262651	-63.872257	-0.160149
-0.001388	-0.217656	-24.771152	
0.50000	-0.262651	-44.927863	-0.160149
-0.001388	-0.045246	-24.358454	
0.75000	-0.262651	-24.769797	-0.160149
-0.001388	-0.284533	-24.648476	
1.00000	-0.262651	-9.434830	-0.160149
-0.001388	-0.565403	-59.253272	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.296360	6.402526	0.234517
0.000714	0.605954	17.257919	
0.25000	0.296360	19.057571	0.234517
0.000714	0.318333	51.082004	
0.50000	0.296360	35.779741	0.234517
0.000714	0.068239	65.812058	
0.75000	0.296360	51.508720	0.234517
0.000714	0.220566	54.803619	
1.00000	0.296360	68.144225	0.234517
0.000714	0.435755	24.019727	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.300376	-70.036095	-0.177546
-0.001156	-0.452850	-50.861291	
0.25000	-0.300376	-53.340606	-0.177546
-0.001156	-0.234942	-21.925861	
0.50000	-0.300376	-37.620790	-0.177546
-0.001156	-0.042088	-21.625198	
0.75000	-0.300376	-20.893884	-0.177546
-0.001156	-0.291887	-21.907642	
1.00000	-0.300376	-8.169124	-0.177546
-0.001156	-0.580694	-50.664048	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.114183	9.128578	0.085000
0.000187	0.227326	14.329895	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4242

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.114183	27.876793	0.085000
0.000187	0.127055	63.227569	
0.50000	0.114183	52.650378	0.085000
0.000187	0.053190	83.341165	
0.75000	0.114183	75.952570	0.085000
0.000187	0.050359	64.833497	
1.00000	0.114183	100.597762	0.085000
0.000187	0.087216	16.726795	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.096044	-101.504877	-0.036270
-0.000231	-0.101682	-68.412461	
0.25000	-0.096044	-76.770819	-0.036270
-0.000231	-0.060741	-25.424011	
0.50000	-0.096044	-53.482203	-0.036270
-0.000231	-0.039847	-24.857436	
0.75000	-0.096044	-28.701602	-0.036270
-0.000231	-0.118586	-25.154724	
1.00000	-0.096044	-9.850105	-0.036270
-0.000231	-0.223398	-67.635660	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.144710	8.562996	0.149288
0.000632	0.394241	16.536626	
0.25000	0.144710	26.013257	0.149288
0.000632	0.213966	62.345051	
0.50000	0.144710	49.071748	0.149288
0.000632	0.063566	81.545868	
0.75000	0.144710	70.760711	0.149288

0.000632	0.093115	64.949877	
1.00000	0.144710	93.699698	0.149288
0.000632	0.174185	20.926594	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.176816	-95.097759	-0.071309
-0.000269	-0.188316	-65.678768	
0.25000	-0.176816	-72.076059	-0.071309
-0.000269	-0.103557	-25.714102	
0.50000	-0.176816	-50.399732	-0.071309
-0.000269	-0.043725	-25.234412	
0.75000	-0.176816	-27.334711	-0.071309
-0.000269	-0.189983	-25.558779	
1.00000	-0.176816	-9.788317	-0.071309
-0.000269	-0.374460	-65.146389	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.243761	6.228954	0.204494
0.000574	0.532593	17.303311	
0.25000	0.243761	18.581143	0.204494
0.000574	0.284478	50.133626	
0.50000	0.243761	34.903124	0.204494
0.000574	0.066160	64.401943	
0.75000	0.243761	50.255684	0.204494
0.000574	0.172038	53.639282	
1.00000	0.243761	66.493074	0.204494
0.000574	0.339665	23.663779	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261598	-68.504879	-0.139140
-0.001072	-0.357800	-49.277377	
0.25000	-0.261598	-52.208940	-0.139140
-0.001072	-0.187548	-21.020253	
0.50000	-0.261598	-36.865324	-0.139140
-0.001072	-0.039848	-20.712618	
0.75000	-0.261599	-20.538721	-0.139140
-0.001072	-0.252725	-20.974135	
1.00000	-0.261598	-8.118484	-0.139140
-0.001072	-0.506114	-49.028187	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4243
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.287780	5.305597	0.213643
0.000843	0.556587	15.675854	
0.25000	0.287780	15.653170	0.213643
0.000843	0.298152	43.458770	
0.50000	0.287780	29.326283	0.213643
0.000843	0.062168	55.687116	
0.75000	0.287780	42.187300	0.213643
0.000843	0.203962	46.950045	
1.00000	0.287780	55.789551	0.213643
0.000843	0.403020	22.112971	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.304527	-57.630446	-0.163702
-0.000894	-0.415679	-42.532838	
0.25000	-0.304527	-43.979149	-0.163702
-0.000894	-0.214504	-18.906871	
0.50000	-0.304527	-31.125624	-0.163702
-0.000894	-0.037799	-18.694516	
0.75000	-0.304527	-17.448639	-0.163702
-0.000894	-0.267557	-18.958946	
1.00000	-0.304527	-7.044062	-0.163702
-0.000894	-0.532399	-42.505506	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.150028	0.147561	0.069872
0.000561	0.169779	1.826599	
0.25000	0.150028	0.171597	0.069872
0.000561	0.087460	2.273279	
0.50000	0.150028	0.203358	0.069872
0.000561	0.010382	2.709446	
0.75000	0.150028	0.233232	0.069872
0.000561	0.096444	3.111549	
1.00000	0.150028	0.264829	0.069872
0.000561	0.191118	3.490826	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.159941	-0.507757	-0.076076
-4.86E-07	-0.187199	-2.014892	
0.25000	-0.159941	-0.476046	-0.076076
-4.86E-07	-0.092614	-2.032995	
0.50000	-0.159941	-0.446189	-0.076076
-4.86E-07	-0.006962	-2.105485	
0.75000	-0.159941	-0.414419	-0.076076
-4.86E-07	-0.091031	-2.179083	
1.00000	-0.159941	-0.390250	-0.076076
-4.86E-07	-0.177882	-2.306922	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.222923	0.586022	0.126203
0.000995	0.316043	4.436570	
0.25000	0.222923	1.307107	0.126203
0.000995	0.165902	6.881404	
0.50000	0.222923	2.259937	0.126203
0.000995	0.021992	8.414822	
0.75000	0.222923	3.156175	0.126203
0.000995	0.154048	8.548354	
1.00000	0.222923	4.104067	0.126203
0.000995	0.304416	7.670800	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.258165	-4.740506	-0.121192
-2.47E-06	-0.298581	-6.082964	
0.25000	-0.258165	-3.789196	-0.121192
-2.47E-06	-0.148033	-4.545427	
0.50000	-0.258165	-2.893480	-0.121192
-2.47E-06	-0.013567	-4.639500	
0.75000	-0.258165	-1.940380	-0.121192
-2.47E-06	-0.157641	-4.766798	
1.00000	-0.258165	-1.215322	-0.121192
-2.47E-06	-0.314322	-6.516601	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4244
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.230117	0.877215	0.174685
0.001149	0.444169	8.066939	
0.25000	0.230117	2.023740	0.174685
0.001149	0.233374	11.864097	
0.50000	0.230117	3.538740	0.174685
0.001149	0.035292	14.204096	
0.75000	0.230117	4.963759	0.174685
0.001149	0.162725	14.478586	
1.00000	0.230117	6.470907	0.174685
0.001149	0.323718	13.150681	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.279144	-7.686342	-0.129838
-0.000209	-0.322318	-9.058675	
0.25000	-0.279144	-6.173760	-0.129838
-0.000209	-0.161079	-6.565893	
0.50000	-0.279144	-4.749571	-0.129838
-0.000209	-0.019126	-6.667372	
0.75000	-0.279144	-3.234142	-0.129838
-0.000209	-0.211709	-6.821680	
1.00000	-0.279144	-2.081300	-0.129838
-0.000209	-0.428464	-9.555719	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.296179	6.244589	0.209845
0.001016	0.541087	16.038423	
0.25000	0.296179	18.466983	0.209845
0.001016	0.288867	48.649003	
0.50000	0.296179	34.617454	0.209845
0.001016	0.063913	62.770435	
0.75000	0.296179	49.808691	0.209845
0.001016	0.197440	52.010395	
1.00000	0.296179	65.875461	0.209845
0.001016	0.387007	22.143089	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.321533	-67.566590	-0.156751
-0.000653	-0.397992	-49.007528	
0.25000	-0.321533	-51.441887	-0.156751
-0.000653	-0.205932	-21.092102	
0.50000	-0.321533	-36.259501	-0.156751
-0.000653	-0.040878	-20.832474	
0.75000	-0.321533	-20.104455	-0.156751
-0.000653	-0.263109	-21.136019	
1.00000	-0.321533	-7.814729	-0.156751
-0.000653	-0.522709	-48.940090	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.258301	0.231170	0.221430
5.41E-06	0.565165	4.332577	
0.25000	0.258301	0.239309	0.221430
5.41E-06	0.289935	5.119312	
0.50000	0.258301	0.258737	0.221430
5.41E-06	0.021190	5.954088	
0.75000	0.258301	0.279906	0.221430
5.41E-06	0.186360	6.831251	
1.00000	0.258301	0.298491	0.221430
5.41E-06	0.385458	7.727023	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.318071	-0.976753	-0.159848
-0.001022	-0.408763	-3.377398	
0.25000	-0.318071	-0.958168	-0.159848
-0.001022	-0.209641	-3.564041	
0.50000	-0.318071	-0.936987	-0.159848
-0.001022	-0.012122	-3.813224	
0.75000	-0.318071	-0.917542	-0.159848
-0.001022	-0.260763	-4.062459	
1.00000	-0.318071	-0.909332	-0.159848
-0.001022	-0.536000	-4.339767	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4245
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.485867	12.856535	0.335928
4.52E-05	0.863973	18.583422	
0.25000	0.485867	25.813855	0.335928
4.52E-05	0.463769	59.632113	
0.50000	0.485867	56.744314	0.335928
4.52E-05	0.083427	84.202872	
0.75000	0.485867	90.444776	0.335928
4.52E-05	0.322522	92.743570	
1.00000	0.485867	120.032051	0.335928
4.52E-05	0.625600	23.868341	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.483858	-121.331867	-0.261496
-0.001274	-0.694097	-76.130194	
0.25000	-0.483858	-91.743480	-0.261496
-0.001274	-0.368553	-31.078717	
0.50000	-0.483858	-58.024363	-0.261496
-0.001274	-0.049911	-31.328383	
0.75000	-0.483858	-27.066905	-0.261496
-0.001274	-0.415354	-31.682777	
1.00000	-0.483858	-13.996704	-0.261496
-0.001274	-0.827845	-76.852643	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.452624	9.368978	0.382577
0.000331	0.986073	17.992329	
0.25000	0.452624	18.569326	0.382577
0.000331	0.523088	48.000955	
0.50000	0.452624	40.531507	0.382577
0.000331	0.082442	66.121808	
0.75000	0.452624	64.460528	0.382577
0.000331	0.343226	51.806836	
1.00000	0.452624	85.468980	0.382577
0.000331	0.679017	25.184145	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.494728	-87.100106	-0.282938
-0.001276	-0.742171	-57.635062	
0.25000	-0.494728	-66.090864	-0.282938
-0.001276	-0.390037	-25.322149	
0.50000	-0.494728	-42.148596	-0.282938
-0.001276	-0.048212	-26.422690	
0.75000	-0.494728	-20.167246	-0.282938
-0.001276	-0.460454	-26.987574	
1.00000	-0.494728	-10.886746	-0.282938
-0.001276	-0.932023	-59.373442	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.483071	7.929259	0.408895
0.000612	1.048405	16.806579	
0.25000	0.483071	15.565695	0.408895
0.000612	0.550670	42.039624	
0.50000	0.483071	33.794654	0.408895
0.000612	0.078224	57.420442	
0.75000	0.483071	53.656123	0.408895
0.000612	0.371853	45.924205	
1.00000	0.483071	71.093473	0.408895
0.000612	0.736861	24.227237	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.562281	-72.659603	-0.304348
-0.001063	-0.788012	-49.579426	
0.25000	-0.562281	-55.221598	-0.304348
-0.001063	-0.409444	-23.440916	
0.50000	-0.562281	-35.349134	-0.304348
-0.001063	-0.046531	-24.031441	
0.75000	-0.562281	-17.104263	-0.304348
-0.001063	-0.493832	-24.683682	
1.00000	-0.562281	-9.401300	-0.304348
-0.001063	-0.998216	-51.747852	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4246
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.236793	9.034635	0.108120
0.000157	0.264205	11.702937	
0.25000	0.236793	18.117781	0.108120
0.000157	0.162000	40.217007	
0.50000	0.236793	39.600189	0.108120
0.000157	0.050811	56.906363	
0.75000	0.236793	63.424382	0.108120
0.000157	0.119477	41.595456	
1.00000	0.236793	84.165210	0.108120
0.000157	0.219173	14.060135	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.179625	-84.815128	-0.092794
-0.000208	-0.255767	-52.115779	
0.25000	-0.179625	-64.073521	-0.092794
-0.000208	-0.140126	-20.474254	
0.50000	-0.179625	-40.436249	-0.092794
-0.000208	-0.030266	-20.572495	
0.75000	-0.179625	-18.734916	-0.092794
-0.000208	-0.137712	-20.744166	
1.00000	-0.179625	-9.572639	-0.092794
-0.000208	-0.268518	-52.331760	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251630	8.740188	0.210584
0.000530	0.545679	14.361678	
0.25000	0.251630	17.408244	0.210584
0.000530	0.295946	42.148248	
0.50000	0.251630	38.099789	0.210584
0.000530	0.064938	58.700544	
0.75000	0.251630	60.644382	0.210584
0.000530	0.190143	44.675594	
1.00000	0.251630	80.437377	0.210584
0.000530	0.362581	19.027115	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.275370	-81.518999	-0.150821
-0.000250	-0.400780	-52.391293	
0.25000	-0.275370	-61.725260	-0.150821
-0.000250	-0.213308	-22.432250	
0.50000	-0.275370	-39.168187	-0.150821
-0.000250	-0.038607	-22.778859	
0.75000	-0.275370	-18.458581	-0.150821
-0.000250	-0.258096	-23.195441	
1.00000	-0.275370	-9.715011	-0.150821
-0.000250	-0.516351	-53.592235	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.413541	6.052642	0.335881
0.000482	0.868663	15.079352	
0.25000	0.413541	11.685658	0.335881
0.000482	0.459342	33.793141	
0.50000	0.413541	25.132248	0.335881
0.000482	0.068296	45.378437	
0.75000	0.413541	39.783058	0.335881
0.000482	0.309858	37.471696	
1.00000	0.413541	52.645716	0.335881
0.000482	0.620532	22.070909	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.443158	-54.221666	-0.257567
-0.000975	-0.661494	-38.078434	
0.25000	-0.443158	-41.358523	-0.257567
-0.000975	-0.348050	-18.848460	
0.50000	-0.443158	-26.699603	-0.257567
-0.000975	-0.039414	-19.398224	
0.75000	-0.443158	-13.241276	-0.257567
-0.000975	-0.396356	-19.993022	
1.00000	-0.443158	-7.559186	-0.257567
-0.000975	-0.819632	-40.070772	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4247
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.472259	5.230252	0.370393
0.000744	0.951456	14.287242	
0.25000	0.472259	9.961058	0.370393
0.000744	0.497814	30.337348	
0.50000	0.472259	21.253979	0.370393
0.000744	0.066339	40.401690	
0.75000	0.472259	33.558246	0.370393
0.000744	0.358284	34.090910	
1.00000	0.472259	44.360760	0.370393
0.000744	0.716387	21.492324	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.521484	-45.835159	-0.294480
-0.000814	-0.754744	-33.632182	
0.25000	-0.521484	-35.032238	-0.294480
-0.000814	-0.394477	-17.709680	
0.50000	-0.521484	-22.721160	-0.294480
-0.000814	-0.039369	-18.356946	
0.75000	-0.521484	-11.418382	-0.294480
-0.000814	-0.444626	-19.045167	
1.00000	-0.521484	-6.646363	-0.294480
-0.000814	-0.903186	-36.095713	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.234697	0.251091	0.139117
0.000531	0.345307	2.510962	
0.25000	0.234697	0.259230	0.139117
0.000531	0.173907	3.036898	
0.50000	0.234697	0.278658	0.139117
0.000531	0.014103	3.555567	
0.75000	0.234697	0.299827	0.139117
0.000531	0.166168	4.053779	
1.00000	0.234697	0.318412	0.139117
0.000531	0.330867	4.547824	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.256480	-0.544411	-0.132514
-2.83E-07	-0.328039	-2.712710	
0.25000	-0.256480	-0.525825	-0.132514
-2.83E-07	-0.163341	-2.975070	
0.50000	-0.256480	-0.504645	-0.132514
-2.83E-07	-0.009987	-3.274196	
0.75000	-0.256480	-0.485199	-0.132514
-2.83E-07	-0.172981	-3.573343	
1.00000	-0.256480	-0.476989	-0.132514
-2.83E-07	-0.346008	-3.900647	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.331436	0.692724	0.246318
0.000917	0.615588	5.254402	
0.25000	0.331436	0.961312	0.246318
0.000917	0.312519	6.983166	
0.50000	0.331436	1.602458	0.246318
0.000917	0.027647	8.391721	
0.75000	0.331436	2.301023	0.246318
0.000917	0.256377	8.926341	
1.00000	0.331436	2.914327	0.246318
0.000917	0.510109	9.145626	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.420492	-3.465150	-0.204405
-1.68E-06	-0.507118	-6.358449	
0.25000	-0.420492	-2.851823	-0.204405
-1.68E-06	-0.253076	-5.907783	
0.50000	-0.420492	-2.152872	-0.204405
-1.68E-06	-0.018576	-6.410684	
0.75000	-0.420492	-1.511166	-0.204405
-1.68E-06	-0.303209	-6.916217	
1.00000	-0.420492	-1.240238	-0.204405
-1.68E-06	-0.609290	-8.349773	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4248
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.376140	0.614661	0.290807
0.001025	0.737642	8.135049	
0.25000	0.376140	0.621986	0.290807
0.001025	0.378774	9.368574	
0.50000	0.376140	0.639471	0.290807
0.001025	0.040416	10.740955	
0.75000	0.376140	0.658523	0.290807
0.001025	0.286995	12.354163	
1.00000	0.376140	0.675250	0.290807
0.001025	0.578702	14.026981	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.447844	-1.682960	-0.234577
-0.000203	-0.587814	-6.814703	
0.25000	-0.447844	-1.666233	-0.234577
-0.000203	-0.296101	-7.430177	
0.50000	-0.447844	-1.647171	-0.234577
-0.000203	-0.024697	-8.108056	
0.75000	-0.447844	-1.629670	-0.234577
-0.000203	-0.347351	-8.785559	
1.00000	-0.447844	-1.622281	-0.234577
-0.000203	-0.708712	-9.487880	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.503530	5.665605	0.354132
0.000917	0.904662	14.213866	
0.25000	0.503530	10.793188	0.354132
0.000917	0.473510	31.411858	
0.50000	0.503530	23.033257	0.354132
0.000917	0.066100	42.080861	
0.75000	0.503530	36.369495	0.354132
0.000917	0.361015	34.991024	
1.00000	0.503530	48.078027	0.354132
0.000917	0.717774	21.064844	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.534413	-49.430301	-0.293864
-0.000604	-0.751316	-34.511466	
0.25000	-0.534413	-37.721329	-0.293864
-0.000604	-0.385846	-18.511961	
0.50000	-0.534413	-24.377708	-0.293864
-0.000604	-0.039749	-19.146063	
0.75000	-0.534413	-12.126955	-0.293864
-0.000604	-0.426947	-19.708432	
1.00000	-0.534413	-6.954702	-0.293864
-0.000604	-0.865088	-38.102312	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.296360	10.971430	0.234517
0.001149	0.605954	20.165394	
0.25000	0.296360	33.373643	0.234517
0.001149	0.318333	78.988741	
0.50000	0.296360	62.974901	0.234517
0.001149	0.076349	103.534259	
0.75000	0.296360	90.818032	0.234517
0.001149	0.220546	82.135749	
1.00000	0.296360	120.265878	0.234517
0.001149	0.435755	25.576763	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.321533	-121.867394	-0.177546
-0.001395	-0.452850	-83.618087	
0.25000	-0.321533	-92.313366	-0.177546
-0.001395	-0.234942	-32.254079	
0.50000	-0.321533	-64.486455	-0.177546
-0.001395	-0.053187	-31.578773	
0.75000	-0.321533	-34.876814	-0.177546
-0.001395	-0.291887	-31.935692	
1.00000	-0.321533	-12.351692	-0.177546
-0.001395	-0.580694	-82.696668	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4249
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.503530	12.856535	0.408895
0.001025	1.048405	18.583422	
0.25000	0.503530	25.813855	0.408895
0.001025	0.550670	59.632113	
0.50000	0.503530	56.744314	0.408895
0.001025	0.083427	84.202872	
0.75000	0.503530	90.444776	0.408895
0.001025	0.371853	62.743570	
1.00000	0.503530	120.032051	0.408895
0.001025	0.736861	25.184145	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.562281	-121.331867	-0.304348

```
-0.001276   -0.788012   -76.130194
 0.25000    -0.562281   -91.743480    -0.304348
-0.001276   -0.409444   -31.078717
 0.50000    -0.562281   -58.024363    -0.304348
-0.001276   -0.030911   -31.328383
 0.75000    -0.562281   -27.066905    -0.304348
-0.001276   -0.493832   -31.682777
 1.00000    -0.562281   -13.996704    -0.304348
-0.001276   -0.998216   -76.852643

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.503530   12.856535    0.408895
 0.001149   1.048405   20.165394
 0.25000    0.503530   33.373643    0.408895
 0.001149   0.550670   78.988741
 0.50000    0.503530   62.974901    0.408895
 0.001149   0.083427  103.534259
 0.75000    0.503530   90.818032    0.408895
 0.001149   0.371853   82.055749
 1.00000    0.503530  120.265878    0.408895
 0.001149   0.736861   25.576763

COMB      CAR -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.562281 -121.867394   -0.304348
-0.001395   -0.788012   -83.618087
 0.25000   -0.562281   -92.313366   -0.304348
-0.001395   -0.409444   -32.254079
 0.50000   -0.562281   -64.486455   -0.304348
-0.001395   -0.053187   -31.578773
 0.75000   -0.562281   -34.876814   -0.304348
-0.001395   -0.493832   -31.935692
 1.00000   -0.562281   -13.996704   -0.304348
-0.001395   -0.998216   -82.696668

COMB      DESIGN ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.503530   12.856535    0.408895
 0.001149   1.048405   20.165394
 0.25000    0.503530   33.373643    0.408895
 0.001149   0.550670   78.988741
 0.50000    0.503530   62.974901    0.408895
 0.001149   0.083427  103.534259
 0.75000    0.503530   90.818032    0.408895
 0.001149   0.371853   82.055749
 1.00000    0.503530  120.265878    0.408895
 0.001149   0.736861   25.576763

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.562281 -121.867394   -0.304348
-0.001395   -0.788012   -83.618087
 0.25000   -0.562281   -92.313366   -0.304348
-0.001395   -0.409444   -32.254079
 0.50000   -0.562281   -64.486455   -0.304348
-0.001395   -0.053187   -31.578773
 0.75000   -0.562281   -34.876814   -0.304348
-0.001395   -0.493832   -31.935692
 1.00000   -0.562281   -13.996704   -0.304348
-0.001395   -0.998216   -82.696668
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

<                    Page                    >
<              MOVING          LOAD          >
                                4250

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       411 ================== LENGTH
=     4.972693

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.151543   0.346838    0.103977
 0.000276   0.261277   7.477561
 0.25000    0.151543   0.370949    0.103977
 0.000276   0.132039   7.501212
 0.50000    0.151543   0.402698    0.103977
 0.000276   0.024600   7.643882
 0.75000    0.151543   0.432554    0.103977
 0.000276   0.120461   7.974581
 1.00000    0.151543   0.464205    0.103977
 0.000276   0.244814   8.404785

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.125148   -0.752734   -0.100030
-0.000833   -0.252639   -2.687366
 0.25000   -0.125148   -0.721048   -0.100030
-0.000833   -0.128283   -2.466538
 0.50000   -0.125148   -0.691198   -0.100030
-0.000833   -0.007257   -2.260616
 0.75000   -0.125148   -0.659446   -0.100030
-0.000833   -0.126583   -2.133981
 1.00000   -0.125148   -0.635295   -0.100030
-0.000833   -0.255826   -2.022647

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.265091   11.368913    0.165680
 0.000408   0.432805   25.199813
 0.25000    0.265091   33.840807    0.165680
 0.000408   0.231673   83.498680
 0.50000    0.265091   63.430507    0.165680
 0.000408   0.087341  106.742312
 0.75000    0.265091   91.256432    0.165680
 0.000408   0.185125   84.444794
 1.00000    0.265091  120.755512    0.165680
 0.000408   0.347216   26.848915

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.222245 -121.315297   -0.137594
-0.001051   -0.366358   -82.711670
 0.25000   -0.222245   -91.783092   -0.137594
-0.001051   -0.197359   -31.517308
 0.50000   -0.222245   -63.963272   -0.137594
-0.001051   -0.050077   -30.564041
 0.75000   -0.222245   -34.370883   -0.137594
-0.001051   -0.216930   -30.810649
 1.00000   -0.222245   -11.861744   -0.137594
-0.001051   -0.418418   -81.439585

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.252480   8.144994    0.185129
 0.000688   0.488028   25.511268
 0.25000    0.252480   23.443725   0.185129
 0.000688   0.261714   65.101274
 0.50000    0.252480   43.588215   0.185129
 0.000688   0.087492   81.037718
 0.75000    0.252480   62.531938   0.185129
 0.000688   0.192595   66.279205
 1.00000    0.252480   82.614734   0.185129
 0.000688   0.369482   27.686867

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.255499   -83.320043   -0.147209
-0.001178   -0.383690   -59.258621
 0.25000   -0.255499   -63.214695   -0.147209
-0.001178   -0.200881   -24.233141
 0.50000   -0.255499   -44.275129   -0.147209
-0.001178   -0.042363   -23.411496
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

<                    Page                    >
<              MOVING          LOAD          >
                                4251

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.75000   -0.255499   -24.128808   -0.147209
-0.001178   -0.225331   -23.406716
 1.00000   -0.255499   -8.804722    -0.147209
-0.001178   -0.452121   -57.701982

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.279164   6.867213    0.200542
 0.000819   0.519032   23.964591
 0.25000    0.279164   19.561905   0.200542
 0.000819   0.272933   56.833942
 0.50000    0.279164   36.277545   0.200542
 0.000819   0.083638   70.142389
 0.75000    0.279164   51.996804   0.200542
 0.000819   0.219193   58.034973
 1.00000    0.279164   68.661253   0.200542
 0.000819   0.424310   26.215321

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.288507   -69.350616   -0.169069
-0.001011   -0.434122   -50.676049
 0.25000   -0.288507   -52.667455   -0.169069
-0.001011   -0.223940   -21.533655
 0.50000   -0.288507   -36.951645   -0.169069
-0.001011   -0.039431   -20.773169
 0.75000   -0.288507   -20.234485   -0.169069
-0.001011   -0.247923   -20.690714
 1.00000   -0.288507   -7.518754    -0.169069
-0.001011   -0.494433   -49.070031

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.098166   9.386262    0.060539
 0.000207   0.171703   16.679641
 0.25000    0.098166   28.193213   0.060539
 0.000207   0.100801   65.470430
 0.50000    0.098166   52.957125   0.060539
 0.000207   0.058587   84.849649
 0.75000    0.098166   76.244916   0.060539
 0.000207   0.053184   65.981602
 1.00000    0.098166  100.932988   0.060539
 0.000207   0.085118   17.512790

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.087908 -101.232275   -0.031712
-0.000217   -0.098771   -67.664523
 0.25000   -0.087908   -76.516481   -0.031712
-0.000217   -0.059352   -24.924254
 0.50000   -0.087908   -53.233800   -0.031712
-0.000217   -0.037599   -24.231253
 0.75000   -0.087908   -28.467636   -0.031712
-0.000217   -0.012441   -24.542437
 1.00000   -0.087908   -9.629516    -0.031712
-0.000217   -0.152738   -67.018869

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.131884   8.915500    0.107178
 0.000531   0.293368   20.869351
 0.25000    0.131884   26.420431   0.107178
 0.000531   0.164493   66.210154
 0.50000    0.131884   49.469918   0.107178
 0.000531   0.073682   84.342170
 0.75000    0.131884   71.145278   0.107178
 0.000531   0.101650   67.070229
 1.00000    0.131884   94.124375   0.107178
 0.000531   0.180018   22.382094

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.169969   -94.631051   -0.068662
-0.000364   -0.185832   -65.177217
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

<                    Page                    >
<              MOVING          LOAD          >
                                4252

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.25000   -0.169969   -71.626351   -0.068662
-0.000364   -0.100568   -25.274588
 0.50000   -0.169969   -49.955547   -0.068662
-0.000364   -0.041195   -24.508265
 0.75000   -0.169969   -26.903965   -0.068662
-0.000364   -0.132516   -24.676698
 1.00000   -0.169969   -9.370022    -0.068662
-0.000364   -0.261910   -64.091245

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.228177   6.866920    0.162985
 0.000740   0.429333   23.594777
 0.25000    0.228177   19.257807   0.162985
 0.000740   0.229955   55.531329
 0.50000    0.228177   35.573815   0.162985
 0.000740   0.080451   68.461717
 0.75000    0.228177   50.916487   0.162985
 0.000740   0.168746   56.677006
 1.00000    0.228177   67.182128   0.162985
 0.000740   0.324039   25.734096

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.250073   -67.873291   -0.128875
-0.000994   -0.334079   -49.036889
 0.25000   -0.250073   -51.589385   -0.128875
-0.000994   -0.174344   -20.837297
 0.50000   -0.250073   -36.249680   -0.128875
-0.000994   -0.037283   -19.892387
 0.75000   -0.250073   -19.932589   -0.128875
-0.000994   -0.197367   -19.833163
 1.00000   -0.250073   -7.521166    -0.128875
-0.000994   -0.397183   -47.554489

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.272395   5.826876    0.186382
 0.000857   0.480891   22.057157
 0.25000    0.272395   16.206866   0.186382
 0.000857   0.251916   48.913103
 0.50000    0.272395   29.874641   0.186382
 0.000857   0.077256   59.841843
 0.75000    0.272395   42.727710   0.186382
 0.000857   0.204959   50.065039
 1.00000    0.272395   56.353627   0.186382
 0.000857   0.397530   24.243517

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.293496   -56.991742   -0.158195
-0.000822   -0.403587   -42.522407
 0.25000   -0.293496   -43.350525   -0.158195
-0.000822   -0.206978   -18.638143
 0.50000   -0.293496   -30.500276   -0.158195
-0.000822   -0.035366   -17.960825
 0.75000   -0.293496   -16.831259   -0.158195
-0.000822   -0.230005   -17.837973
 1.00000   -0.293496   -6.434066    -0.158195
-0.000822   -0.459409   -40.987209

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.145578   0.144844    0.080048
 0.000360   0.194747   3.495127
 0.25000    0.145578   0.168956    0.080048
 0.000360   0.095404   3.666600
 0.50000    0.145578   0.200704    0.080048
 0.000360   0.015142   3.858007
 0.75000    0.145578   0.230561    0.080048
 0.000360   0.101934   3.994479
 1.00000    0.145578   0.262212    0.080048
 0.000360   0.202045   4.109970
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

<                    Page                    >
<              MOVING          LOAD          >
                                4253

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.154721   -3.340648   -0.080528
-4.91E-06   -0.198430   -2.322747
 0.25000   -0.154721   -0.308961   -0.080528
-4.91E-06   -0.098311   -2.155030
 0.50000   -0.154721   -0.279111   -0.080528
-4.91E-06   -0.006573   -2.041460
 0.75000   -0.154721   -0.247360   -0.080528
-4.91E-06   -0.104022   -1.929177
 1.00000   -0.154721   -0.223208   -0.080528
-4.91E-06   -0.203480   -1.870952

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.216441   0.640140    0.128401
 0.000684   0.316191   7.669661
 0.25000    0.216441   1.363484    0.128401
 0.000684   0.157032   9.633374
 0.50000    0.216441   2.315943    0.128401
 0.000684   0.030765   10.609814
 0.75000    0.216441   3.211627    0.128401
 0.000684   0.162874   10.227886
 1.00000    0.216441   4.161168    0.128401
 0.000684   0.321906   8.839781

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.241713   -4.400578   -0.128152
-0.000101   -0.316361   -6.539955
 0.25000   -0.241713   -3.449971   -0.128152
-0.000101   -0.157041   -4.692165
 0.50000   -0.241713   -2.554483   -0.128152
-0.000101   -0.012778   -4.461982
 0.75000   -0.241713   -1.601938   -0.128152
-0.000101   -0.167197   -4.270533
 1.00000   -0.241713   -0.877395   -0.128152
-0.000101   -0.326586   -5.700825

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.221511   1.159727    0.153647
 0.000854   0.392295   13.121172
 0.25000    0.221511   2.309845    0.153647
 0.000854   0.202251   16.098707
 0.50000    0.221511   3.824253    0.153647
 0.000854   0.048015   17.547236
 0.75000    0.221511   5.248391    0.153647
 0.000854   0.169323   17.006973
 1.00000    0.221511   6.758162    0.153647
 0.000854   0.333847   14.903090

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.269674   -7.198684   -0.132707
-0.000335   -0.395260   -9.575220
 0.25000   -0.269674   -5.687218   -0.132707
-0.000335   -0.163413   -6.667929
 0.50000   -0.269674   -4.263393   -0.132707
-0.000335   -0.017834   -6.332372
 0.75000   -0.269674   -2.748847   -0.132707
-0.000335   -0.184036   -6.058301
 1.00000   -0.269674   -1.596823   -0.132707
-0.000335   -0.374389   -8.362797

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.280325   6.684260    0.182974
 0.000861   0.472017   22.089443
 0.25000    0.280325   18.944945   0.182974
 0.000861   0.247681   53.874819
 0.50000    0.280325   35.089111   0.182974
 0.000861   0.078589   66.733303
 0.75000    0.280325   50.270959   0.182974
 0.000861   0.202845   55.005825
 1.00000    0.280325   66.365683   0.182974
 0.000861   0.389605   24.199388
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

<                    Page                    >
<              MOVING          LOAD          >
                                4254

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.309767   -66.953274   -0.154145
-0.000636   -0.394051   -48.968133
 0.25000   -0.309767   -50.840477   -0.154145
-0.000636   -0.202545   -20.835839
 0.50000   -0.309767   -35.661960   -0.154145
-0.000636   -0.038311   -20.115448
 0.75000   -0.309767   -19.516326   -0.154145
-0.000636   -0.228924   -20.049770
 1.00000   -0.309767   -7.235321    -0.154145
-0.000636   -0.453654   -47.472652

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.249241   0.447220    0.185401
 0.000240   0.479924   7.681347
 0.25000    0.249241   0.455397    0.185401
 0.000240   0.249635   7.877334
 0.50000    0.249241   0.474826    0.185401
 0.000240   0.028999   8.102044
 0.75000    0.249241   0.495988    0.185401
 0.000240   0.153983   8.388887
 1.00000    0.249241   0.514568    0.185401
 0.000240   0.320391   8.693539

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.288669   -0.772751   -0.133832
-0.000729   -0.344471   -4.300071
 0.25000   -0.288669   -0.754173   -0.133832
-0.000729   -0.178063   -4.288773
 0.50000   -0.288669   -0.733007   -0.133832
-0.000729   -0.012997   -4.305457
 0.75000   -0.288669   -0.713574   -0.133832
-0.000729   -0.211881   -4.322190
 1.00000   -0.288669   -0.705372   -0.133832
-0.000729   -0.442261   -4.367254

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.456987   13.290826   0.267900
 0.000322   0.706668   23.791474
 0.25000    0.456987   26.309389   0.267900
 0.000322   0.389491   64.365676
 0.50000    0.456987   57.240070   0.267900
 0.000322   0.096338   87.651610
 0.75000    0.456987   90.928947   0.267900
 0.000322   0.277192   65.223858
 1.00000    0.456987  120.508257   0.267900
 0.000322   0.532367   25.416286

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.445424 -121.023505   -0.221457
-0.000859   -0.594020   -76.831194
 0.25000   -0.445424   -91.447320   -0.221457
-0.000859   -0.318452   -31.875604
 0.50000   -0.445424   -57.750478   -0.221457
-0.000859   -0.049464   -31.615102
 0.75000   -0.445424   -26.812598   -0.221457
-0.000859   -0.324758   -31.677482
 1.00000   -0.445424   -13.755566   -0.221457
-0.000859   -0.652998   -76.552275

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.426202   9.949183    0.299451
 0.000550   0.787819   25.094461
 0.25000    0.426202   19.193017   0.299451
 0.000550   0.428380   54.008234
 0.50000    0.426202   41.155355   0.299451
 0.000550   0.100018   70.744573
 0.75000    0.426202   65.076150   0.299451
 0.000550   0.304385   55.132023
 1.00000    0.426202   86.078947   0.299451
 0.000550   0.591348   27.279227
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

<                    Page                    >
<              MOVING          LOAD          >
                                4255

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.460573   -86.700324   -0.243125
-0.000987   -0.636841   -59.342830
 0.25000   -0.460573   -65.699746   -0.243125
-0.000987   -0.335678   -27.460116
 0.50000   -0.460573   -48.232591   -0.243125
-0.000987   -0.048906   -27.312987
 0.75000   -0.460573   -19.805846   -0.243125
-0.000987   -0.354229   -27.395001
 1.00000   -0.460573   -10.534697   -0.243125
-0.000987   -0.722451   -59.296175

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.458937   8.431071    0.333111
 0.000669   0.866056   24.159205
 0.25000    0.458937   16.103600   0.333111
 0.000669   0.462833   48.232571
 0.50000    0.458937   34.332690   0.333111
 0.000669   0.096823   62.202459
 0.75000    0.458937   54.187331   0.333111
 0.000669   0.341499   49.360391
 1.00000    0.458937   71.619987   0.333111
 0.000669   0.666597   26.391007

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.533959   -72.221546   -0.272003
-0.000847   -0.702540   -51.731040
 0.25000   -0.533959   -54.790732   -0.272003
-0.000847   -0.365738   -25.298300
 0.50000   -0.533959   -34.931397   -0.272003
-0.000847   -0.048002   -25.206667
 0.75000   -0.533959   -16.698064   -0.272003
-0.000847   -0.397991   -25.305161
 1.00000   -0.533959   -9.002863    -0.272003
-0.000847   -0.808490   -51.814126

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.214900   9.269460    0.071136
 0.000168   0.198968   14.024435
 0.25000    0.214900   18.395537   0.071136
 0.000168   0.121878   42.304133
 0.50000    0.214900   40.078100   0.071136
 0.000168   0.056983   58.467502
 0.75000    0.214900   63.694172   0.071136
 0.000168   0.105564   42.711315
 1.00000    0.214900   84.429418   0.071136
 0.000168   0.185645   14.765725

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.169168   -84.689415   -0.076911
-0.000185   -0.215533   -52.340855
 0.25000   -0.169168   -63.956361   -0.076911
-0.000185   -0.120172   -20.827750
 0.50000   -0.169168   -40.334705   -0.076911
-0.000185   -0.029762   -20.646190
 0.75000   -0.169168   -18.647096   -0.076911
-0.000185   -0.090993   -20.691026
 1.00000   -0.169168   -9.494051    -0.076911
-0.000185   -0.175163   -52.149380

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.234161   9.125065    0.157600
 0.000437   0.416965   18.983265
 0.25000    0.234161   17.834090   0.157600
 0.000437   0.233770   46.112459
 0.50000    0.234161   38.525784   0.157600
 0.000437   0.077017   61.732111
 0.75000    0.234161   61.062626   0.157600
 0.000437   0.186873   46.844916
 1.00000    0.234161   80.850293   0.157600
 0.000437   0.343020   20.395054
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

<                    Page                    >
<              MOVING          LOAD          >
                                4256

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.265989   -81.265863   -0.137280
```

```
-0.000321   -0.359515   -53.604138
0.25000     -0.265989   -61.480286     -0.137280
-0.000321   -0.190561   -23.568089
0.50000     -0.265989   -38.938115     -0.137280
-0.000321   -0.038991   -23.431524
0.75000     -0.265989   -18.241606     -0.137280
-0.000321   -0.195548   -23.510983
1.00000     -0.265989   -9.506846      -0.137280
-0.000321   -0.387575   -53.568725
```

COMB DL-G2-3 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.392318    6.653062    0.258781
0.000614    0.680821    21.986975
0.25000     0.392318    12.312702   0.258781
 0.000614   0.368182    39.573002
0.50000     0.392318    25.753389   0.258781
 0.000614   0.085585    49.830986
0.75000     0.392318    40.405162   0.258781
 0.000614   0.278069    40.670374
1.00000     0.392318    53.264359   0.258781
 0.000614   0.545126    24.108501
```

COMB DL-G2-3 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.420216   -53.842850  -0.222890
-0.000847   -0.576481   -40.042697
0.25000     -0.420216   -40.985012  -0.222890
-0.000847   -0.300780   -20.554730
0.50000     -0.420216   -26.335775  -0.222890
-0.000847   -0.040614   -20.497288
0.75000     -0.420216   -12.885960  -0.222890
-0.000847   -0.301935   -20.580119
1.00000     -0.420216   -7.209596   -0.222890
-0.000847   -0.620271   -40.144693
```

COMB DL-G2-4 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.449134    5.714456    0.302257
0.000713    0.784219    21.434741
0.25000     0.449134    10.467622   0.302257
 0.000713   0.416127    36.310188
0.50000     0.449134    21.760624   0.302257
 0.000713   0.084824    45.026530
0.75000     0.449134    34.060661   0.302257
 0.000713   0.334598    37.420523
1.00000     0.449134    44.860268   0.302257
 0.000713   0.658179    23.609059
```

COMB DL-G2-4 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.507695   -45.411056  -0.267261
-0.000699   -0.682394   -36.082126
0.25000     -0.507695   -34.612590  -0.267261
-0.000699   -0.351490   -19.747985
0.50000     -0.507695   -22.309645  -0.267261
-0.000699   -0.041183   -19.732288
0.75000     -0.507695   -11.014015  -0.267261
-0.000699   -0.358161   -19.834419
1.00000     -0.507695   -6.246804   -0.267261
-0.000699   -0.731084   -36.297934
```

COMB DL-G3-1 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.222668    0.227637    0.133466
0.000308    0.333635    4.570758
0.25000     0.222668    0.235814    0.133466
0.000308    0.168082    4.743490
0.50000     0.222668    0.255243    0.133466
0.000308    0.020237    4.910441
0.75000     0.222668    0.276404    0.133466
0.000308    0.171213    5.050934
1.00000     0.222668    0.294984    0.133466
0.000308    0.339431    5.188186
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                   4257

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.265617   -0.389989   -0.135651
-4.73E-06   -0.335889   -3.915417
0.25000     -0.265617   -0.371411   -0.135651
-4.73E-06   -0.167441   -3.936941
0.50000     -0.265617   -0.350244   -0.135651
-4.73E-06   -0.011031   -3.986392
0.75000     -0.265617   -0.330811   -0.135651
-4.73E-06   -0.164449   -4.036126
1.00000     -0.265617   -0.322609   -0.135651
-4.73E-06   -0.330438   -4.113208

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.319548    0.744427    0.228522
0.000573    0.574203    9.168276
0.25000     0.319548    1.014284    0.228522
0.000573    0.291383    10.230827
0.50000     0.319548    1.655435    0.228522
0.000573    0.038808    10.950073
0.75000     0.319548    2.353760    0.228522
0.000573    0.233395    10.785332
1.00000     0.319548    2.966899    0.228522
0.000573    0.520537    10.317200

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.424718   -3.186827   -0.207842
-9.89E-05   -0.515397   -8.373264
0.25000     -0.424718   -2.573753   -0.207842
-9.89E-05   -0.257973   -7.511079
0.50000     -0.424718   -1.875263   -0.207842
-9.89E-05   -0.030867   -7.557922
0.75000     -0.424718   -1.233963   -0.207842
-9.89E-05   -0.281370   -7.629558
1.00000     -0.424718   -0.963308   -0.207842
-9.89E-05   -0.564728   -8.637948

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.356604    0.884252    0.247047
0.000723    0.630646    14.016707
0.25000     0.356604    0.891611    0.247047
0.000723    0.326143    14.209122
0.50000     0.356604    0.909397    0.247047
0.000723    0.056314    14.531431
0.75000     0.356604    0.928142    0.247047
0.000723    0.288911    15.098390
1.00000     0.356604    0.944864    0.247047
0.000723    0.569960    15.783765

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.450275   -1.324163   -0.227248
-0.000304   -0.563584   -9.495753
0.25000     -0.450275   -1.307443   -0.227248
-0.000304   -0.282976   -9.573670
0.50000     -0.450275   -1.288393   -0.227248
-0.000304   -0.027224   -9.675941
0.75000     -0.450275   -1.270903   -0.227248
-0.000304   -0.294945   -9.778106
1.00000     -0.450275   -1.263522   -0.227248
-0.000304   -0.601167   -9.906226
```

COMB DL-G3-4 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.476881    6.081623    0.291345
0.000732    0.753346    21.022972
0.25000     0.476881    11.233441   0.291345
 0.000732   0.399599    37.114370
0.50000     0.476881    23.473597   0.291345
 0.000732   0.084087    46.499366
0.75000     0.476881    36.805251   0.291345
 0.000732   0.346081    38.183705
1.00000     0.476881    48.510631   0.291345
 0.000732   0.675782    23.102233
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                   4258

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.527718   -49.023691  -0.272880
-0.000555   -0.694157   -38.100897
0.25000     -0.527718   -37.315547  -0.272880
-0.000555   -0.356415   -20.396479
0.50000     -0.527718   -23.984742  -0.272880
-0.000555   -0.041486   -20.379046
0.75000     -0.527718   -11.741737  -0.272880
-0.000555   -0.349833   -20.489212
1.00000     -0.527718   -6.574695   -0.272880
-0.000555   -0.708978   -38.333129
```

COMB DB ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.280325    11.368913   0.200542
0.000861    0.513932    25.511268
0.25000     0.280325    33.840807   0.200542
0.000861    0.272933    83.498660
0.50000     0.280325    63.430507   0.200542
0.000861    0.087492    106.742312
0.75000     0.280325    91.256432   0.200542
0.000861    0.219193    84.444794
1.00000     0.280325    120.755512  0.200542
0.000861    0.424310    27.686867
```

COMB DB ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.309767   -121.315297 -0.169069
-0.001178   -0.434122   -82.711670
0.25000     -0.309767   -91.783092  -0.169069
-0.001178   -0.223940   -31.517308
0.50000     -0.309767   -63.963272  -0.169069
-0.001178   -0.050077   -30.564041
0.75000     -0.309767   -34.370883  -0.169069
-0.001178   -0.247923   -30.810649
1.00000     -0.309767   -11.861744  -0.169069
-0.001178   -0.494433   -81.439585
```

COMB DL ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.476881    13.290826   0.333111
0.000732    0.866056    25.094461
0.25000     0.476881    26.309389   0.333111
0.000732    0.462833    64.365676
0.50000     0.476881    57.240070   0.333111
0.000732    0.100018    87.351610
0.75000     0.476881    90.928947   0.333111
0.000732    0.346081    65.223858
1.00000     0.476881    120.508257  0.333111
0.000732    0.675782    27.279227
```

COMB DL ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.533959   -121.023505 -0.272880
-0.000987   -0.702540   -76.831194
0.25000     -0.533959   -91.447320  -0.272880
-0.000987   -0.365738   -31.875604
0.50000     -0.533959   -57.750478  -0.272880
-0.000987   -0.049464   -31.615102
0.75000     -0.533959   -26.812598  -0.272880
-0.000987   -0.397991   -31.677482
1.00000     -0.533959   -13.755566  -0.272880
-0.000987   -0.808490   -76.552275
```

COMB CAR ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.476881    13.290826   0.333111
0.000861    0.866056    25.511268
0.25000     0.476881    33.840807   0.333111
0.000861    0.462833    83.498660
0.50000     0.476881    63.430507   0.333111
0.000861    0.100018    106.742312
0.75000     0.476881    91.256432   0.333111
0.000861    0.346081    84.444794
1.00000     0.476881    120.755512  0.333111
0.000861    0.675782    27.686867
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                   4259

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB CAR ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.533959   -121.315297 -0.272880
-0.001178   -0.702540   -82.711670
0.25000     -0.533959   -91.783092  -0.272880
-0.001178   -0.365738   -31.875604
0.50000     -0.533959   -63.963272  -0.272880
-0.001178   -0.050077   -31.615102
0.75000     -0.533959   -34.370883  -0.272880
-0.001178   -0.397991   -31.677482
1.00000     -0.533959   -13.755566  -0.272880
-0.001178   -0.808490   -81.439585

COMB DESIGN ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.476881    13.290826   0.333111
0.000861    0.866056    25.511268
0.25000     0.476881    33.840807   0.333111
0.000861    0.462833    83.498660
0.50000     0.476881    63.430507   0.333111
0.000861    0.100018    106.742312
0.75000     0.476881    91.256432   0.333111
0.000861    0.346081    84.444794
1.00000     0.476881    120.755512  0.333111
0.000861    0.675782    27.686867

COMB DESIGN ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.533959   -121.315297 -0.272880
-0.001178   -0.702540   -82.711670
0.25000     -0.533959   -91.783092  -0.272880
-0.001178   -0.365738   -31.875604
0.50000     -0.533959   -63.963272  -0.272880
-0.001178   -0.050077   -31.615102
0.75000     -0.533959   -34.370883  -0.272880
-0.001178   -0.397991   -31.677482
1.00000     -0.533959   -13.755566  -0.272880
-0.001178   -0.808490   -81.439585

ELEM    412 ========== LENGTH =    4.972843

COMB DB-G1-1 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.141365    0.487321    0.098340
0.000583    0.246636    8.402979
0.25000     0.141365    0.511446    0.098340
0.000583    0.124442    8.206037
0.50000     0.141365    0.543194    0.098340
0.000583    0.025612    8.118490
0.75000     0.141365    0.573047    0.098340
0.000583    0.112446    8.224488
1.00000     0.141365    0.604715    0.098340
0.000583    0.227532    8.437899
```

COMB DB-G1-1 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.120839   -0.615481   -0.092647
-0.000585   -0.233219   -2.009501
0.25000     -0.120839   -0.583806   -0.092647
-0.000585   -0.118025   -1.805192
0.50000     -0.120839   -0.553955   -0.092647
-0.000585   -0.006237   -1.855856
0.75000     -0.120839   -0.522206   -0.092647
-0.000585   -0.120425   -2.032565
1.00000     -0.120839   -0.498071   -0.092647
-0.000585   -0.242682   -2.263133
```

COMB DB-G1-2 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.234980    11.606743   0.140076
0.000762    0.366462    26.809565
0.25000     0.234980    34.090969   0.140076
0.000762    0.201155    84.800869
0.50000     0.234980    63.679869   0.140076
0.000762    0.089276    107.542492
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                   4260

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.75000     0.234980    91.503496   0.140076
0.000762    0.194801    84.860039
1.00000     0.234980    121.018065  0.140076
0.000762    0.358486    26.903439
```

COMB DB-G1-2 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.199810   -121.057181 -0.139300
-0.000756   -0.367034   -81.458093
0.25000     -0.199810   -91.536697  -0.139300
-0.000756   -0.195572   -30.385257
0.50000     -0.199810   -63.715026  -0.139300
-0.000756   -0.048010   -29.797125
0.75000     -0.199810   -34.125111  -0.139300
-0.000756   -0.187691   -30.681666
1.00000     -0.199810   -11.631166  -0.139300
-0.000756   -0.356675   -81.762695
```

COMB DB-G1-3 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.228765    8.455262    0.155272
0.000973    0.396169    27.641056
0.25000     0.228765    23.762387   0.155272
 0.000973   0.208554    66.783298
0.50000     0.228765    43.906332   0.155272
 0.000973   0.090219    82.119699
0.75000     0.228765    62.848490   0.155272
 0.000973   0.207481    66.851444
1.00000     0.228765    82.941832   0.155272
 0.000973   0.379996    27.761531
```

COMB DB-G1-3 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.235117   -82.986681  -0.148483
-0.000967   -0.383172   -57.715679
0.25000     -0.235117   -62.889313  -0.148483
-0.000967   -0.199744   -22.776249
0.50000     -0.235117   -43.946466  -0.148483
-0.000967   -0.039484   -22.448924
0.75000     -0.235117   -23.803850  -0.148483
-0.000967   -0.203226   -23.248486
1.00000     -0.235117   -8.490108   -0.148483
-0.000967   -0.392730   -58.221515
```

COMB DB-G1-4 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.252659    7.158229    0.181034
0.000947    0.456460    26.182434
0.25000     0.252659    19.859886   0.181034
 0.000947   0.223509    58.576004
0.50000     0.252659    36.575075   0.181034
 0.000947   0.086599    71.263302
0.75000     0.252659    52.293036   0.181034
 0.000947   0.234054    58.637279
1.00000     0.252659    68.966234   0.181034
 0.000947   0.438434    26.290743
```

COMB DB-G1-4 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.265797   -69.006716  -0.172173
-0.000942   -0.438222   -49.015585
0.25000     -0.265797   -52.330177  -0.172173
-0.000942   -0.225832   -20.012546
0.50000     -0.265797   -36.613321  -0.172173
-0.000942   -0.036371   -19.785623
0.75000     -0.265797   -19.897559  -0.172173
-0.000942   -0.235521   -20.548428
1.00000     -0.265797   -7.190411   -0.172173
-0.000942   -0.457678   -49.667948
```

COMB DB-G2-1 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.079701    9.499552    0.034026
0.000217    0.095748    17.473477
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                   4261

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.25000     0.079701    28.316822   0.034026
0.000217    0.064557    66.140658
0.50000     0.079701    53.080064   0.034026
0.000217    0.059622    85.240788
0.75000     0.079701    76.365932   0.034026
0.000217    0.077718    66.183551
1.00000     0.079701    101.066966  0.034026
0.000217    0.119676    17.538116
```

COMB DB-G2-1 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.070964   -101.096021 -0.039759
-0.000218   -0.106188   -67.047582
0.25000     -0.070964   -76.390037  -0.039759
-0.000218   -0.062572   -24.393999
0.50000     -0.070964   -53.105806  -0.039759
-0.000218   -0.036383   -23.876192
0.75000     -0.070964   -28.341714  -0.039759
-0.000218   -0.056064   -24.510469
1.00000     -0.070964   -9.516309   -0.039759
-0.000218   -0.094052   -67.154683
```

COMB DB-G2-2 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.109078    9.128181    0.081844
0.000480    0.211982    22.339202
0.25000     0.109078    26.642717   0.081844
 0.000480   0.116423    67.399908
0.50000     0.109078    49.691581   0.081844
 0.000480   0.075703    85.071966
0.75000     0.109078    71.365350   0.081844
 0.000480   0.129676    67.456021
1.00000     0.109078    94.356313   0.081844
 0.000480   0.216445    22.431739
```

COMB DB-G2-2 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.146881   -94.393698  -0.080214
-0.000479   -0.211578   -64.126221
0.25000     -0.146881   -71.398128  -0.080214
-0.000479   -0.113197   -24.025551
0.50000     -0.146881   -49.725882  -0.080214
-0.000479   -0.039031   -23.878839
0.75000     -0.146881   -26.676228  -0.080214
-0.000479   -0.116483   -24.615124
1.00000     -0.146881   -9.154120   -0.080214
-0.000479   -0.214211   -64.452964
```

COMB DB-G2-3 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.202091    7.172518    0.137782
0.000911    0.349565    25.504407
0.25000     0.202091    19.570204   0.137782
 0.000911   0.182661    57.177238
0.50000     0.202091    35.885371   0.137782
 0.000911   0.083211    69.515497
0.75000     0.202091    51.227175   0.137782
 0.000911   0.185113    57.246016
1.00000     0.202091    67.501357   0.137782
 0.000911   0.338425    25.807880
```

COMB DB-G2-3 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.226353   -67.546440  -0.131506
-0.000912   -0.337536   -47.571972
0.25000     -0.226353   -51.268998  -0.131506
-0.000912   -0.174956   -19.213713
0.50000     -0.226353   -35.928272  -0.131506
-0.000912   -0.034312   -18.979405
0.75000     -0.226353   -19.612545  -0.131506
-0.000912   -0.180694   -19.695948
1.00000     -0.226353   -7.209500   -0.131506
-0.000912   -0.349180   -48.090575
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<                 MOVING          LOAD                >
                                   4262

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.249747    6.077937    0.171396
0.000836    0.429807    24.210403
0.25000     0.249747    16.463623   0.171396
 0.000836   0.220343    50.602743
0.50000     0.249747    30.131028   0.171396
 0.000836   0.080219    60.938192
0.75000     0.249747    42.983036   0.171396
 0.000836   0.220982    50.661870
1.00000     0.249747    56.616107   0.171396
 0.000836   0.414478    24.316377
```

COMB DB-G2-4 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.271457   -56.655800  -0.162712
-0.000836   -0.412575   -41.013853
0.25000     -0.271457   -43.019997  -0.162712
-0.000836   -0.211024   -17.174252
0.50000     -0.271457   -30.168893  -0.162712
-0.000836   -0.032165   -17.021137
0.75000     -0.271457   -16.501019  -0.162712
-0.000836   -0.223209   -17.716510
1.00000     -0.271457   -6.110483   -0.162712
-0.000836   -0.433884   -41.598220
```

COMB DB-G3-1 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.141367    0.137691    0.089471
8.49E-06    0.219023    4.125097
0.25000     0.141367    0.161816    0.089471
8.49E-06    0.107804    4.166155
0.50000     0.141367    0.193564    0.089471
8.49E-06    0.016217    4.185192
0.75000     0.141367    0.223417    0.089471
8.49E-06    0.105919    4.160227
1.00000     0.141367    0.255085    0.089471
8.49E-06    0.210522    4.131620
```

COMB DB-G3-1 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.148275   -0.245617   -0.084139
-8.47E-06   -0.207924   -1.890549
0.25000     -0.148275   -0.213942   -0.084139
-8.47E-06   -0.103313   -1.706177
0.50000     -0.148275   -0.184091   -0.084139
-8.47E-06   -0.005285   -1.771589
0.75000     -0.148275   -0.152342   -0.084139
-8.47E-06   -0.114749   -1.919797
1.00000     -0.148275   -0.128207   -0.084139
-8.47E-06   -0.225958   -2.121863
```

COMB DB-G3-2 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     0.197132    0.697476    0.142772
0.000199    0.350008    8.855923
0.25000     0.197132    1.421218    0.142772
0.000199    0.172817    10.541488
0.50000     0.197132    2.373650    0.142772
0.000199    0.032679    11.207128
0.75000     0.197132    3.269260    0.142772
0.000199    0.169784    10.552698
1.00000     0.197132    4.219300    0.142772
0.000199    0.336432    8.881374
```

COMB DB-G3-2 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
0.00000     -0.225094   -4.221149   -0.134254
-0.000199   -0.332240   -5.730985
0.25000     -0.225094   -3.270919   -0.134254
-0.000199   -0.165370   -3.862870
0.50000     -0.225094   -2.375372   -0.134254
-0.000199   -0.010715   -3.959027
0.75000     -0.225094   -1.422907   -0.134254
-0.000199   -0.183461   -4.243355
1.00000     -0.225094   -0.698853   -0.134254
-0.000199   -0.360822   -6.143450
```
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.206951	1.310140	0.148607
0.000436	0.364283	14.895382	
0.25000	0.206951	2.460889	0.148607
0.000436	0.179944	17.467691	
0.50000	0.206951	3.975256	0.148607
0.000436	0.050726	18.459583	
0.75000	0.206951	5.399277	0.148607
0.000436	0.187544	17.502349	
1.00000	0.206951	6.909840	0.148607
0.000436	0.355476	14.966062	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.252286	-6.928017	-0.139850
-0.000435	-0.346120	-8.392293	
0.25000	-0.252286	-5.417151	-0.139850
-0.000435	-0.172339	-5.472405	
0.50000	-0.252286	-3.993231	-0.139850
-0.000435	-0.014858	-5.590874	
0.75000	-0.252286	-2.478812	-0.139850
-0.000435	-0.191476	-5.990320	
1.00000	-0.252286	-1.327566	-0.139850
-0.000435	-0.376004	-8.958836	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257102	6.898530	0.170190
0.000619	0.426827	24.169615	
0.25000	0.257102	19.165942	0.170190
0.000619	0.219625	55.510693	
0.50000	0.257102	35.309671	0.170190
0.000619	0.081578	67.790936	
0.75000	0.257102	50.490266	0.170190
0.000619	0.223164	55.568112	
1.00000	0.257102	66.593440	0.170190
0.000619	0.415294	24.272584	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.285408	-66.627614	-0.162116
-0.000619	-0.411590	-47.509586	
0.25000	-0.285408	-50.521213	-0.162116
-0.000619	-0.210974	-19.422715	
0.50000	-0.285408	-35.341685	-0.162116
-0.000619	-0.035017	-19.214770	
0.75000	-0.285408	-19.157202	-0.162116
-0.000619	-0.224201	-19.951228	
1.00000	-0.285408	-6.924687	-0.162116
-0.000619	-0.432989	-48.074933	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.224482	0.578797	0.151973
0.000503	0.388452	8.661827	
0.25000	0.224482	0.586982	0.151973
0.000503	0.201018	8.587030	
0.50000	0.224482	0.606412	0.151973
0.000503	0.030651	8.527263	
0.75000	0.224482	0.627575	0.151973
0.000503	0.143110	8.539066	
1.00000	0.224482	0.646156	0.151973
0.000503	0.283795	8.565067	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.257799	-0.608247	-0.114385
-0.000480	-0.287048	-4.337519	
0.25000	-0.257799	-0.589668	-0.114385
-0.000480	-0.146078	-4.341765	
0.50000	-0.257799	-0.568503	-0.114385
-0.000480	-0.012342	-4.374050	
0.75000	-0.257799	-0.549074	-0.114385
-0.000480	-0.183054	-4.406584	
1.00000	-0.257799	-0.540883	-0.114385
-0.000480	-0.370283	-4.467384	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.411511	13.534257	0.204706
0.000604	0.534848	25.361830	
0.25000	0.411511	26.565605	0.204706
0.000604	0.298992	65.566060	
0.50000	0.411511	57.497693	0.204706
0.000604	0.098075	88.365891	
0.75000	0.411511	91.188884	0.204706
0.000604	0.273960	65.500079	
1.00000	0.411511	120.769274	0.204706
0.000604	0.503323	25.171698	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.389638	-120.734726	-0.198757
-0.000582	-0.520312	-76.543042	
0.25000	-0.389638	-91.156943	-0.198757
-0.000582	-0.276337	-31.766301	
0.50000	-0.389638	-57.461543	-0.198757
-0.000582	-0.047721	-31.506285	
0.75000	-0.389638	-26.531409	-0.198757
-0.000582	-0.269093	-31.854357	
1.00000	-0.389638	-13.490232	-0.198757
-0.000582	-0.520701	-76.705010	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.382460	10.249525	0.235180
0.000785	0.607478	27.220605	
0.25000	0.382460	19.502437	0.235180
0.000785	0.328829	55.581273	
0.50000	0.382460	41.465774	0.235180
0.000785	0.102650	71.683862	
0.75000	0.382460	65.388212	0.235180
0.000785	0.315001	55.471419	
1.00000	0.382460	86.391776	0.235180
0.000785	0.585698	26.959580	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.408770	-86.328088	-0.230743
-0.000764	-0.588951	-59.285110	
0.25000	-0.408770	-65.356376	-0.230743
-0.000764	-0.305320	-27.520060	
0.50000	-0.408770	-41.400949	-0.230743
-0.000764	-0.046807	-27.364045	
0.75000	-0.408770	-19.439000	-0.230743
-0.000764	-0.300322	-27.639709	
1.00000	-0.408770	-10.179109	-0.230743
-0.000764	-0.589775	-59.514516	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.412963	8.719376	0.277353
0.000770	0.707786	26.357445	
0.25000	0.412963	16.399439	0.277353
0.000770	0.374835	49.845686	
0.50000	0.412963	34.629359	0.277353
0.000770	0.099547	63.164494	
0.75000	0.412963	54.485364	0.277353
0.000770	0.360856	49.705424	
1.00000	0.412963	71.918656	0.277353
0.000770	0.680096	26.043234	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.484613	-71.841485	-0.268024
-0.000753	-0.675783	-51.819202	
0.25000	-0.484613	-54.409729	-0.268024
-0.000753	-0.345606	-25.463891	
0.50000	-0.484613	-34.551244	-0.268024
-0.000753	-0.045729	-25.344545	
0.75000	-0.484613	-16.322476	-0.268024
-0.000753	-0.352277	-25.583484	
1.00000	-0.484613	-8.636619	-0.268024
-0.000753	-0.694733	-52.050243	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.184620	9.385787	0.043294
0.000184	0.118247	14.518017	
0.25000	0.184620	18.520827	0.043294
0.000184	0.078056	42.873551	
0.50000	0.184620	40.204376	0.043294
0.000184	0.057910	58.799414	
0.75000	0.184620	63.822070	0.043294
0.000184	0.122947	42.843532	
1.00000	0.184620	84.558072	0.043294
0.000184	0.208429	14.639462	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.137153	-84.549889	-0.078370
-0.000184	-0.206218	-52.163352	
0.25000	-0.137153	-63.815715	-0.078370
-0.000184	-0.111882	-20.760348	
0.50000	-0.137153	-40.195070	-0.078370
-0.000184	-0.028787	-20.563823	
0.75000	-0.137153	-18.512693	-0.078370
-0.000184	-0.069466	-20.793556	
1.00000	-0.137153	-9.370960	-0.078370
-0.000184	-0.122027	-52.219710	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.200769	9.322697	0.126481
0.000398	0.325276	20.373411	
0.25000	0.200769	18.040276	0.126481
0.000398	0.179964	47.152952	
0.50000	0.200769	38.732910	0.126481
0.000398	0.078973	62.344846	
0.75000	0.200769	61.271301	0.126481
0.000398	0.217538	47.064355	
1.00000	0.200769	81.059691	0.126481
0.000398	0.388950	20.157885	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.232131	-81.019847	-0.149935
-0.000397	-0.381611	-53.593595	
0.25000	-0.232131	-61.233202	-0.149935
-0.000397	-0.119729	-23.643628	
0.50000	-0.232131	-38.691996	-0.149935
-0.000397	-0.037529	-23.473737	
0.75000	-0.232131	-18.000669	-0.149935
-0.000397	-0.171852	-23.710808	
1.00000	-0.232131	-9.276514	-0.149935
-0.000397	-0.327611	-53.718530	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.351283	6.935637	0.203600
0.000747	0.524590	24.055597	
0.25000	0.351283	12.600835	0.203600
0.000747	0.280502	41.090072	
0.50000	0.351283	26.048133	0.203600
0.000747	0.088171	50.729982	
0.75000	0.351283	40.694912	0.203600
0.000747	0.293948	40.975237	
1.00000	0.351283	53.554578	0.203600
0.000747	0.552216	23.798850	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.377351	-53.487081	-0.217317
-0.000748	-0.547566	-40.321521	
0.25000	-0.377351	-40.628548	-0.217317
-0.000748	-0.280138	-20.709620	
0.50000	-0.377351	-25.979939	-0.217317
-0.000748	-0.038580	-20.635367	
0.75000	-0.377351	-12.533491	-0.217317
-0.000748	-0.275578	-20.855507	
1.00000	-0.377351	-6.864019	-0.217317
-0.000748	-0.506391	-40.362405	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.409141	5.972716	0.253941
0.000702	0.646110	23.586547	
0.25000	0.409141	10.730550	0.253941
0.000702	0.338091	37.878136	
0.50000	0.409141	22.024065	0.253941
0.000702	0.087640	45.956969	
0.75000	0.409141	34.324947	0.253941
0.000702	0.358469	37.729927	
1.00000	0.409141	45.124949	0.253941
0.000702	0.682642	23.267865	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.470081	-45.042774	-0.269170
-0.000702	-0.672291	-36.306556	
0.25000	-0.470081	-34.343724	-0.269170
-0.000702	-0.340151	-20.000657	
0.50000	-0.470081	-21.941305	-0.269170
-0.000702	-0.039004	-19.947843	
0.75000	-0.470081	-10.648504	-0.269170
-0.000702	-0.318864	-20.117049	
1.00000	-0.470081	-5.887081	-0.269170
-0.000702	-0.632478	-36.534324	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.210145	0.258391	0.130583
7.11E-06	0.323345	5.225725	
0.25000	0.210145	0.266577	0.130583
7.11E-06	0.161230	5.206944	
0.50000	0.210145	0.286007	0.130583
7.11E-06	0.021132	5.179744	
0.75000	0.210145	0.307169	0.130583
7.11E-06	0.188668	5.125017	
1.00000	0.210145	0.325750	0.130583
7.11E-06	0.370396	5.062808	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261609	-0.283516	-0.146557
-7.09E-06	-0.359363	-4.136294	
0.25000	-0.261609	-0.264937	-0.146557
-7.09E-06	-0.177676	-4.123277	
0.50000	-0.261609	-0.243771	-0.146557
-7.09E-06	-0.010336	-4.138196	
0.75000	-0.261609	-0.224343	-0.146557
-7.09E-06	-0.164172	-4.153664	
1.00000	-0.261609	-0.216151	-0.146557
-7.09E-06	-0.326319	-4.198434	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.292462	0.836828	0.221842
0.000171	0.550394	10.364688	
0.25000	0.292462	1.106950	0.221842
0.000171	0.275421	11.081371	
0.50000	0.292462	1.748130	0.221842
0.000171	0.040567	11.447652	
0.75000	0.292462	2.446503	0.221842
0.000171	0.292930	10.945026	
1.00000	0.292462	3.059665	0.221842
0.000171	0.572687	10.091125	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.410279	-2.991700	-0.225942
-0.000171	-0.553485	-8.676271	
0.25000	-0.410279	-2.378593	-0.225942
-0.000171	-0.273523	-7.775412	
0.50000	-0.410279	-1.680133	-0.225942
-0.000171	-0.019361	-7.797231	
0.75000	-0.410279	-1.038993	-0.225942
-0.000171	-0.278751	-7.831680	
1.00000	-0.410279	-0.768667	-0.225942
-0.000171	-0.554165	-7.796408	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.322571	1.056198	0.226249
0.000374	0.563817	15.806132	
0.25000	0.322571	1.063565	0.226249
0.000374	0.283793	15.488366	
0.50000	0.322571	1.081051	0.226249
0.000374	0.058892	15.280860	
0.75000	0.322571	1.100098	0.226249
0.000374	0.330358	15.327776	
1.00000	0.322571	1.116820	0.226249
0.000374	0.637023	15.483319	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.426668	-1.030649	-0.249445
-0.000374	-0.608959	-9.935020	
0.25000	-0.426668	-1.013928	-0.249445
-0.000374	-0.300061	-9.955418	
0.50000	-0.426668	-0.994879	-0.249445
-0.000374	-0.025254	-10.000689	
0.75000	-0.426668	-0.977393	-0.249445
-0.000374	-0.282725	-10.046321	
1.00000	-0.426668	-0.970021	-0.249445
-0.000374	-0.562962	-10.116961	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.433575	6.316188	0.250022
0.000525	0.634096	23.095817	
0.25000	0.433575	11.473065	0.250022
0.000525	0.331212	38.629114	
0.50000	0.433575	23.713779	0.250022
0.000525	0.086876	47.389160	
0.75000	0.433575	37.046348	0.250022
0.000525	0.377190	38.474855	
1.00000	0.433575	48.752156	0.250022
0.000525	0.718113	22.762335	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.490965	-48.670181	-0.282388
-0.000526	-0.704363	-38.353474	
0.25000	-0.490965	-36.965405	-0.282388
-0.000526	-0.355291	-20.671006	
0.50000	-0.490965	-23.631170	-0.282388
-0.000526	-0.039208	-20.604831	
0.75000	-0.490965	-11.391230	-0.282388
-0.000526	-0.251618	-20.776193	
1.00000	-0.490965	-6.230463	-0.282388
-0.000526	-0.625258	-38.564379	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257102	11.606743	0.181034
0.000973	0.456460	27.641056	
0.25000	0.257102	34.090969	0.181034
0.000973	0.235909	84.800869	
0.50000	0.257102	63.679869	0.181034
0.000973	0.090219	107.542492	
0.75000	0.257102	91.503496	0.181034
0.000973	0.234054	84.860039	
1.00000	0.257102	121.018065	0.181034
0.000973	0.438434	27.761531	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.285408	-121.057181	-0.172173
-0.000967	-0.438922	-81.458093	
0.25000	-0.285408	-91.536697	-0.172173
-0.000967	-0.225832	-30.385257	
0.50000	-0.285408	-63.715026	-0.172173
-0.000967	-0.048010	-29.797125	
0.75000	-0.285408	-34.125111	-0.172173
-0.000967	-0.235521	-30.681666	
1.00000	-0.285408	-11.631166	-0.172173
-0.000967	-0.457678	-81.762695	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.433575	13.534257	0.277353
0.000785	0.707786	27.220605	
0.25000	0.433575	26.565605	0.277353
0.000785	0.374835	65.566060	
0.50000	0.433575	57.497693	0.277353
0.000785	0.102650	88.365891	
0.75000	0.433575	91.188884	0.277353
0.000785	0.377190	65.500079	
1.00000	0.433575	120.769274	0.277353
0.000785	0.718113	26.959580	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.490965	-120.734726	-0.282388
-0.000764	-0.704363	-76.543042	
0.25000	-0.490965	-91.156943	-0.282388
-0.000764	-0.355291	-31.766301	
0.50000	-0.490965	-57.461543	-0.282388
-0.000764	-0.047721	-31.506285	
0.75000	-0.490965	-26.531409	-0.282388
-0.000764	-0.352277	-31.854357	
1.00000	-0.490965	-13.490232	-0.282388
-0.000764	-0.694733	-76.705010	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.433575	13.534257	0.277353
0.000973	0.707786	27.641056	
0.25000	0.433575	34.090969	0.277353
0.000973	0.374835	84.800869	
0.50000	0.433575	63.679869	0.277353
0.000973	0.102650	107.542492	
0.75000	0.433575	91.503496	0.277353
0.000973	0.377190	84.860039	
1.00000	0.433575	121.018065	0.277353
0.000973	0.718113	27.761531	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.490965	-121.057181	-0.282388
-0.000967	-0.704363	-81.458093	
0.25000	-0.490965	-91.536697	-0.282388
-0.000967	-0.355291	-31.766301	
0.50000	-0.490965	-63.715026	-0.282388
-0.000967	-0.048010	-31.506285	
0.75000	-0.490965	-34.125111	-0.282388
-0.000967	-0.352277	-31.854357	
1.00000	-0.490965	-13.490232	-0.282388
-0.000967	-0.694733	-81.762695	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.433575	13.534257	0.277353
0.000973	0.707786	27.641056	
0.25000	0.433575	34.090969	0.277353
0.000973	0.374835	84.800869	
0.50000	0.433575	63.679869	0.277353
0.000973	0.102650	107.542492	
0.75000	0.433575	91.503496	0.277353
0.000973	0.377190	84.860039	
1.00000	0.433575	121.018065	0.277353
0.000973	0.718113	27.761531	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.490965	-121.057181	-0.282388
-0.000967	-0.704363	-81.458093	
0.25000	-0.490965	-91.536697	-0.282388
-0.000967	-0.355291	-31.766301	
0.50000	-0.490965	-63.715026	-0.282388
-0.000967	-0.048010	-31.506285	
0.75000	-0.490965	-34.125111	-0.282388
-0.000967	-0.352277	-31.854357	
1.00000	-0.490965	-13.490232	-0.282388
-0.000967	-0.694733	-81.762695	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 413 ========== LENGTH = 4.973066

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.129546	0.625802	0.094663
0.000832	0.236757	8.446557	
0.25000	0.129546	0.649952	0.094663
0.000832	0.119068	8.030730	
0.50000	0.129546	0.681704	0.094663
0.000832	0.024706	7.713107	
0.75000	0.129546	0.711556	0.094663
0.000832	0.107780	7.582275	
1.00000	0.129546	0.743244	0.094663
0.000832	0.217129	7.569910	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.114961	-0.471877	-0.087959
-0.000277	-0.220360	-2.264215	
0.25000	-0.114961	-0.440216	-0.087959
-0.000277	-0.110097	-2.403140	
0.50000	-0.114961	-0.410360	-0.087959
-0.000277	-0.008332	-2.596127	
0.75000	-0.114961	-0.378609	-0.087959
-0.000277	-0.116395	-2.790468	
1.00000	-0.114961	-0.354492	-0.087959
-0.000277	-0.234091	-3.038882	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216144	11.832530	0.123059
0.001059	0.320199	26.879440	
0.25000	0.216144	34.339807	0.123059
0.001059	0.175910	84.520064	
0.50000	0.216144	63.932567	0.123059
0.001059	0.087546	106.861942	
0.75000	0.216144	91.754454	0.123059
0.001059	0.212958	83.663676	
1.00000	0.216144	121.288218	0.123059
0.001059	0.394327	25.385957	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.187756	-120.790808	-0.152260
-0.000409	-0.391628	-81.791984	
0.25000	-0.187756	-91.282750	-0.152260
-0.000409	-0.206110	-31.177309	
0.50000	-0.187756	-63.456344	-0.152260
-0.000409	-0.051323	-30.947518	
0.75000	-0.187756	-33.864976	-0.152260
-0.000409	-0.172693	-31.932072	
1.00000	-0.187756	-11.387618	-0.152260
-0.000409	-0.325580	-83.137939	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209700	8.767535	0.145616

0.001211	0.371080	27.738640	
0.25000	0.209700	24.090354	0.145616
0.001211	0.195995	66.387294	
0.50000	0.209700	44.236927	0.145616
0.001211	0.087805	81.200526	
0.75000	0.209700	63.177900	0.145616
0.001211	0.255231	65.318422	
1.00000	0.209700	83.284310	0.145616
0.001211	0.475288	25.764503	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.221868	-82.653362	-0.181807
-0.000688	-0.449241	-58.239115	
0.25000	-0.221868	-62.564453	-0.181807
-0.000688	-0.226147	-23.981733	
0.50000	-0.221868	-43.620404	-0.181807
-0.000688	-0.044266	-24.026077	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4270

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.221868	-23.474778	-0.181807
-0.000688	-0.194953	-24.897158	
1.00000	-0.221868	-8.172328	-0.181807
-0.000688	-0.375971	-59.958656	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.232097	7.482865	0.176924
0.001039	0.446046	26.284575	
0.25000	0.232097	20.197545	0.176924
0.001039	0.231003	56.159259	
0.50000	0.232097	36.914914	0.176924
0.001039	0.083983	70.319531	
0.75000	0.232097	52.631892	0.176924
0.001039	0.275420	57.062626	
1.00000	0.232097	69.315934	0.176924
0.001039	0.519862	24.228669	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.253005	-68.688145	-0.201183
-0.000819	-0.497546	-49.681528	
0.25000	-0.253005	-52.018625	-0.201183
-0.000819	-0.249854	-21.346059	
0.50000	-0.253005	-36.299094	-0.201183
-0.000819	-0.041603	-21.473725	
0.75000	-0.253005	-19.582511	-0.201183
-0.000819	-0.232867	-22.287407	
1.00000	-0.253005	-6.884734	-0.201183
-0.000819	-0.452817	-51.471862	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.073544	9.607694	0.024533
0.000217	0.071128	17.505642	
0.25000	0.073544	28.444256	0.024533
0.000217	0.047884	66.007870	
0.50000	0.073544	53.210729	0.024533
0.000217	0.058761	84.909544	
0.75000	0.073544	76.495141	0.024533
0.000217	0.115379	65.565423	
1.00000	0.073544	101.212240	0.024533
0.000217	0.195757	16.789331	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.064827	-100.960523	-0.070233
-0.000207	-0.178099	-67.177203	
0.25000	-0.064827	-76.264937	-0.070233
-0.000207	-0.094132	-24.695254	
0.50000	-0.064827	-52.976744	-0.070233
-0.000207	-0.037921	-24.380911	
0.75000	-0.064827	-28.211436	-0.070233
-0.000207	-0.198467	-25.082807	
1.00000	-0.064827	-9.399913	-0.070233
-0.000207	-0.079008	-67.815234	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.097716	9.338576	0.076832
0.000392	0.199136	22.404475	
0.25000	0.097716	26.871069	0.076832
0.000392	0.110417	67.140105	
0.50000	0.097716	49.922939	0.076832
0.000392	0.072955	84.459889	
0.75000	0.097716	71.595353	0.076832
0.000392	0.190498	66.375358	
1.00000	0.097716	94.601269	0.076832
0.000392	0.336994	21.061794	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.140126	-94.159380	-0.124133
-0.000531	-0.303611	-64.472325	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4271

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.140126	-71.173489	-0.124133
-0.000531	-0.152637	-25.072117	
0.50000	-0.140126	-49.497556	-0.124133
-0.000531	-0.042349	-24.920220	
0.75000	-0.140126	-26.446769	-0.124133
-0.000531	-0.113661	-25.714206	
1.00000	-0.140126	-8.937582	-0.124133
-0.000531	-0.209165	-65.628918	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.183105	7.483195	0.132318
0.001019	0.335459	25.781411	
0.25000	0.183105	19.893592	0.132318
0.001019	0.175734	56.782285	
0.50000	0.183105	36.210887	0.132318
0.001019	0.080830	68.622530	
0.75000	0.183105	51.551732	0.132318
0.001019	0.233446	55.747224	
1.00000	0.183105	67.836498	0.132318
0.001019	0.433163	23.849738	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.214634	-67.220416	-0.165397
-0.000740	-0.406070	-48.102723	
0.25000	-0.214634	-50.949824	-0.165397
-0.000740	-0.202897	-20.420818	
0.50000	-0.214634	-35.606488	-0.165397
-0.000740	-0.039085	-20.520880	
0.75000	-0.214634	-19.289960	-0.165397
-0.000740	-0.176602	-21.290550	
1.00000	-0.214634	-6.896061	-0.165397
-0.000740	-0.341138	-49.752012	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.231472	6.398303	0.171099
0.000844	0.429358	24.311009	
0.25000	0.231472	16.794636	0.171099
0.000844	0.220659	50.188338	
0.50000	0.231472	30.463824	0.171099
0.000844	0.077685	60.017145	
0.75000	0.231472	43.815028	0.171099
0.000844	0.262983	49.139229	
1.00000	0.231472	56.956966	0.171099
0.000844	0.497543	22.320213	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.257584	-56.374506	-0.192492
-0.000857	-0.473729	-41.606875	
0.25000	-0.257584	-42.744442	-0.192492
-0.000857	-0.236444	-18.502031	
0.50000	-0.257584	-29.891151	-0.192492
-0.000857	-0.037392	-18.870463	
0.75000	-0.257584	-16.222606	-0.192492
-0.000857	-0.224334	-19.399833	
1.00000	-0.257584	-5.840092	-0.192492
-0.000857	-0.437078	-43.326938	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.135669	0.217674	0.096071
4.94E-06	0.236637	4.157809	
0.25000	0.135669	0.241824	0.096071
4.94E-06	0.117198	4.049188	
0.50000	0.135669	0.273575	0.096071
4.94E-06	0.015341	3.920981	
0.75000	0.135669	0.303427	0.096071
4.94E-06	0.108656	3.756253	
1.00000	0.135669	0.335116	0.096071
4.94E-06	0.216206	3.570543	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4272

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.141093	-0.247545	-0.086517
-0.000360	-0.214266	-2.118949	
0.25000	-0.141093	-0.215884	-0.086517
-0.000360	-0.106749	-2.194237	
0.50000	-0.141093	-0.186028	-0.086517
-0.000360	-0.007209	-2.323783	
0.75000	-0.141093	-0.156477	-0.086517
-0.000360	-0.121777	-2.454632	
1.00000	-0.141093	-0.130160	-0.086517
-0.000360	-0.241228	-2.639366	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.181425	0.864501	0.152852
0.000101	0.376900	8.916042	
0.25000	0.181425	1.588984	0.152852
0.000101	0.187082	10.321775	
0.50000	0.181425	2.541541	0.152852
0.000101	0.031057	10.726611	
0.75000	0.181425	3.437095	0.152852
0.000101	0.180000	9.762838	
1.00000	0.181425	4.387753	0.152852
0.000101	0.352098	7.812592	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.217708	-4.148935	-0.139666
-0.000683	-0.343570	-6.140507	
0.25000	-0.217708	-3.199105	-0.139666
-0.000683	-0.117339	-4.741588	
0.50000	-0.217708	-2.303405	-0.139666
-0.000683	-0.014143	-4.964656	
0.75000	-0.217708	-1.350893	-0.139666
-0.000683	-0.194305	-5.226809	
1.00000	-0.217708	-0.627373	-0.139666
-0.000683	-0.384345	-7.105521	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.193926	1.570566	0.159380
0.000361	0.392963	14.983473	
0.25000	0.193926	2.722494	0.159380
0.000361	0.195278	17.124567	
0.50000	0.193926	4.237059	0.159380
0.000361	0.048443	17.702856	
0.75000	0.193926	5.660991	0.159380
0.000361	0.234590	16.289505	
1.00000	0.193926	7.172536	0.159380
0.000361	0.448494	13.342613	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.241036	-6.759907	-0.173630
-0.000853	-0.417464	-8.994154	
0.25000	-0.241036	-5.249677	-0.173630
-0.000853	-0.202203	-6.695757	
0.50000	-0.241036	-3.825515	-0.173630
-0.000853	-0.019633	-7.016207	
0.75000	-0.241036	-2.311021	-0.173630
-0.000853	-0.203303	-7.398803	
1.00000	-0.241036	-1.160624	-0.173630
-0.000853	-0.401415	-10.351728	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.239620	7.200668	0.171026
0.000657	0.429516	24.269105	
0.25000	0.239620	19.480058	0.171026
0.000657	0.221621	55.122101	
0.50000	0.239620	35.625893	0.171026
0.000657	0.079059	66.906758	
0.75000	0.239620	50.805538	0.171026
0.000657	0.269087	54.098920	
1.00000	0.239620	66.919185	0.171026
0.000657	0.504576	22.348303	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4273

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.270792	-66.384099	-0.194614
-0.000860	-0.479618	-48.085056	
0.25000	-0.270792	-50.784477	-0.194614
-0.000860	-0.240032	-20.701205	
0.50000	-0.270792	-35.102367	-0.194614
-0.000860	-0.040165	-20.807503	
0.75000	-0.270792	-18.957291	-0.194614
-0.000860	-0.226808	-21.576349	
1.00000	-0.270792	-6.693625	-0.194614
-0.000860	-0.439416	-49.745942	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209513	0.746891	0.147877
0.000745	0.365142	8.548746	
0.25000	0.209513	0.755086	0.147877
0.000745	0.182638	8.190551	
0.50000	0.209513	0.774523	0.147877
0.000745	0.028356	7.849006	
0.75000	0.209513	0.795686	0.147877
0.000745	0.163314	7.569802	
1.00000	0.209513	0.814268	0.147877
0.000745	0.315747	7.318523	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.229022	-0.472456	-0.123040
-0.000241	-0.297357	-4.447123	
0.25000	-0.229022	-0.453877	-0.123040
-0.000241	-0.145299	-4.469446	
0.50000	-0.229022	-0.432713	-0.123040
-0.000241	-0.013508	-4.519811	
0.75000	-0.229022	-0.413284	-0.123040
-0.000241	-0.189077	-4.570450	
1.00000	-0.229022	-0.405102	-0.123040
-0.000241	-0.372161	-4.649224	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.368119	13.820443	0.190303
0.000890	0.472773	25.139659	
0.25000	0.368119	26.867533	0.190303
0.000890	0.256724	64.880064	
0.50000	0.368119	57.810272	0.190303
0.000890	0.094741	87.219841	
0.75000	0.368119	91.503177	0.190303
0.000890	0.319053	63.849842	
1.00000	0.368119	121.085319	0.190303
0.000890	0.579875	23.129633	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.344868	-120.458233	-0.222717
-0.000322	-0.556875	-76.706368	
0.25000	-0.344868	-90.879846	-0.222717
-0.000322	-0.285524	-31.936743	
0.50000	-0.344868	-57.187145	-0.222717
-0.000322	-0.049948	-31.938409	
0.75000	-0.344868	-26.255961	-0.222717
-0.000322	-0.269196	-32.318430	
1.00000	-0.344868	-13.230856	-0.222717
-0.000322	-0.504211	-77.382794	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.338531	10.621274	0.225547
0.001016	0.555688	26.934249	
0.25000	0.338531	19.885364	0.225547
0.001016	0.291149	54.670612	
0.50000	0.338531	41.856263	0.225547
0.001016	0.098101	70.151836	
0.75000	0.338531	65.779919	0.225547
0.001016	0.391813	53.287054	
1.00000	0.338531	86.784726	0.225547
0.001016	0.718361	24.199460	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4274

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.366861	-85.999565	-0.273346
-0.000550	-0.667376	-59.521853	
0.25000	-0.366861	-64.997424	-0.273346
-0.000550	-0.333088	-27.759312	
0.50000	-0.366861	-41.073913	-0.273346
-0.000550	-0.049900	-27.774664	
0.75000	-0.366861	-19.111218	-0.273346
-0.000550	-0.313339	-28.064512	
1.00000	-0.366861	-9.862739	-0.273346
-0.000550	-0.591508	-60.082637	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.366260	9.097045	0.274220
0.000872	0.673465	26.047739	
0.25000	0.366260	16.736887	0.274220
0.000872	0.345953	48.874368	
0.50000	0.366260	35.022584	0.274220
0.000872	0.094616	61.562045	
0.75000	0.366260	54.879599	0.274220
0.000872	0.444265	47.438446	
1.00000	0.366260	72.313923	0.274220
0.000872	0.825357	23.173537	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.438204	-71.525742	-0.316236
-0.000669	-0.770260	-52.076520	
0.25000	-0.438204	-54.093630	-0.316236
-0.000669	-0.382272	-25.698115	
0.50000	-0.438204	-34.236735	-0.316236
-0.000669	-0.049079	-25.705730	
0.75000	-0.438204	-16.007349	-0.316236
-0.000669	-0.373540	-25.936104	
1.00000	-0.438204	-8.330964	-0.316236
-0.000669	-0.712067	-52.501733	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.146005	9.521090	0.039710
0.000185	0.099078	14.625199	
0.25000	0.146005	18.667165	0.039710
0.000185	0.063013	42.546305	
0.50000	0.146005	40.358181	0.039710
0.000185	0.056340	58.254853	
0.75000	0.146005	63.977077	0.039710
0.000185	0.158215	42.050900	
1.00000	0.146005	84.714306	0.039710
0.000185	0.276245	13.686940	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112896	-84.411745	-0.104261
-0.000167	-0.261897	-52.237586	
0.25000	-0.112896	-63.677147	-0.104261
-0.000167	-0.135498	-20.822593	
0.50000	-0.112896	-40.058395	-0.104261
-0.000167	-0.002813	-20.792696	
0.75000	-0.112896	-18.375479	-0.104261
-0.000167	-0.069979	-21.027657	
1.00000	-0.112896	-9.244815	-0.104261
-0.000167	-0.118155	-52.586688	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.157839	9.563875	0.125579
0.000332	0.307193	20.160521	
0.25000	0.157839	18.291985	0.125579
0.000332	0.165214	46.521549	
0.50000	0.157839	38.991744	0.125579
0.000332	0.075672	61.309062	
0.75000	0.157839	61.531282	0.125579
0.000332	0.287335	45.590644	
1.00000	0.157839	81.320843	0.125579
0.000332	0.515563	18.319997	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4275

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.203243	-80.798870	-0.194231
-0.000437	-0.474657	-53.756059	
0.25000	-0.203243	-61.011820	-0.194231
-0.000437	-0.237919	-23.775882	
0.50000	-0.203243	-38.472420	-0.194231
-0.000437	-0.039642	-23.746362	
0.75000	-0.203243	-17.780390	-0.194231
-0.000437	-0.184860	-23.969721	
1.00000	-0.203243	-9.066987	-0.194231
-0.000437	-0.339410	-54.085771	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.306275	7.292499	0.199664
0.000874	0.486952	23.781003	
0.25000	0.306275	12.964541	0.199664
0.000874	0.256169	40.217045	
0.50000	0.306275	26.416469	0.199664
0.000874	0.083592	49.246466	
0.75000	0.306275	41.063994	0.199664
0.000874	0.374468	38.856588	
1.00000	0.306275	53.924421	0.199664
0.000874	0.692135	21.109637	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.340911	-53.182776	-0.263208
-0.000614	-0.633950	-40.374103	
0.25000	-0.340911	-40.323981	-0.263208
-0.000614	-0.312087	-20.933894	
0.50000	-0.340911	-25.676545	-0.263208
-0.000614	-0.041543	-20.957585	
0.75000	-0.340911	-12.229641	-0.263208
-0.000614	-0.274916	-21.145389	
1.00000	-0.340911	-6.567156	-0.263208
-0.000614	-0.521543	-40.758721	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.364445	6.339307	0.254776
0.000722	0.622195	23.284836	
0.25000	0.364445	11.102888	0.254776
0.000722	0.315328	36.943051	
0.50000	0.364445	22.400292	0.254776
0.000722	0.082706	44.389869	
0.75000	0.364445	34.701800	0.254776
0.000722	0.443319	35.513330	
1.00000	0.364445	45.502441	0.254776
0.000722	0.832568	20.453320	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.432181	-44.760969	-0.319794
-0.000713	-0.773398	-36.565600	
0.25000	-0.432181	-33.961699	-0.319794
-0.000713	-0.380456	-20.225143	
0.50000	-0.432181	-21.660265	-0.319794
-0.000713	-0.042138	-20.231174	
0.75000	-0.432181	-10.387030	-0.319794
-0.000713	-0.343440	-20.375013	
1.00000	-0.432181	-5.611526	-0.319794
-0.000713	-0.658495	-36.833507	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.195060	0.359430	0.137731
4.75E-06	0.337960	5.115328	
0.25000	0.195060	0.367625	0.137731
4.75E-06	0.166514	4.900955	
0.50000	0.195060	0.387051	0.137731
4.75E-06	0.019506	4.681856	
0.75000	0.195060	0.408225	0.137731
4.75E-06	0.214600	4.436807	
1.00000	0.195060	0.426807	0.137731
4.75E-06	0.421029	4.185251	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4276

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.249256	-0.247455	-0.166555
-0.000308	-0.407511	-4.230623	
0.25000	-0.249256	-0.228905	-0.166555
-0.000308	-0.200246	-4.184017	
0.50000	-0.249256	-0.207741	-0.166555
-0.000308	-0.011335	-4.163995	
0.75000	-0.249256	-0.188312	-0.166555
-0.000308	-0.175500	-4.144507	
1.00000	-0.249256	-0.180131	-0.166555
-0.000308	-0.346325	-4.152962	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.263710	1.026276	0.233589
9.95E-05	0.571148	10.166421	
0.25000	0.263710	1.296724	0.233589
9.95E-05	0.281725	10.505487	
0.50000	0.263710	1.938125	0.233589
9.95E-05	0.037382	10.540662	
0.75000	0.263710	2.636533	0.233589
9.95E-05	0.344635	9.689427	
1.00000	0.263710	3.249731	0.233589
9.95E-05	0.667716	8.493342	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.384464	-2.889362	-0.261021
-0.000573	-0.634074	-8.850460	
0.25000	-0.384464	-2.276242	-0.261021
-0.000573	-0.311333	-7.913113	
0.50000	-0.384464	-1.577838	-0.261021
-0.000573	-0.021313	-7.896958	
0.75000	-0.384464	-0.936676	-0.261021
-0.000573	-0.302618	-7.888697	
1.00000	-0.384464	-0.666684	-0.261021
-0.000573	-0.592703	-8.824676	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.281755	1.346079	0.238256
0.000305	0.581032	15.542034	
0.25000	0.281755	1.353455	0.238256
0.000305	0.285680	14.694263	

0.50000	0.281755	1.370948	0.238256
0.000305	0.054704	13.967421	
0.75000	0.281755	1.389995	0.238256
0.000305	0.411757	13.482330	
1.00000	0.281755	1.406719	0.238256
0.000305	0.787424	13.125726	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.396455	-0.846372	-0.304630
-0.000722	-0.733370	-10.167977	
0.25000	-0.396455	-0.829650	-0.304630
-0.000722	-0.355732	-10.131108	
0.50000	-0.396455	-0.810603	-0.304630
-0.000722	-0.028073	-10.120095	
0.75000	-0.396455	-0.793117	-0.304630
-0.000722	-0.311691	-10.118208	
1.00000	-0.396455	-0.785753	-0.304630
-0.000722	-0.605472	-10.121989	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.381494	6.666136	0.253083
0.000566	0.619057	22.794276	
0.25000	0.381494	11.829243	0.253083
0.000566	0.313167	37.717479	
0.50000	0.381494	24.074171	0.253083
0.000566	0.082163	45.869885	
0.75000	0.381494	37.407419	0.253083
0.000566	0.461835	36.320025	
1.00000	0.381494	49.113920	0.253083
0.000566	0.870143	20.037967	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.450955	-48.411561	-0.335807
-0.000732	-0.815972	-38.607014	
0.25000	-0.450955	-36.706546	-0.335807
-0.000732	-0.401862	-20.877972	
0.50000	-0.450955	-23.373379	-0.335807
-0.000732	-0.042461	-20.876483	
0.75000	-0.450955	-11.133024	-0.335807
-0.000732	-0.340118	-21.044533	
1.00000	-0.450955	-5.978617	-0.335807
-0.000732	-0.652455	-38.895200	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.239620	11.832530	0.176924
0.001211	0.446046	27.738640	
0.25000	0.239620	34.339807	0.176924
0.001211	0.231003	84.520044	
0.50000	0.239620	63.932567	0.176924
0.001211	0.087805	106.861942	
0.75000	0.239620	91.754454	0.176924
0.001211	0.275420	83.663676	
1.00000	0.239620	121.288218	0.176924
0.001211	0.519862	25.764503	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.270792	-120.790808	-0.201183
-0.000860	-0.497546	-81.791984	
0.25000	-0.270792	-91.282750	-0.201183
-0.000860	-0.249854	-31.177309	
0.50000	-0.270792	-63.456344	-0.201183
-0.000860	-0.051323	-30.947518	
0.75000	-0.270792	-33.864976	-0.201183
-0.000860	-0.232667	-31.932072	
1.00000	-0.270792	-11.387618	-0.201183
-0.000860	-0.452817	-83.137939	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.381494	13.820443	0.274220
0.001016	0.673465	26.934249	
0.25000	0.381494	26.867533	0.274220
0.001016	0.345953	64.880064	
0.50000	0.381494	57.810272	0.274220
0.001016	0.098101	87.219841	
0.75000	0.381494	91.503177	0.274220
0.001016	0.461835	63.849842	
1.00000	0.381494	121.085319	0.274220
0.001016	0.870143	24.199460	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.450955	-120.458233	-0.335807
-0.000732	-0.815972	-76.706368	
0.25000	-0.450955	-90.879846	-0.335807
-0.000732	-0.401862	-31.936743	
0.50000	-0.450955	-57.187145	-0.335807
-0.000732	-0.049948	-31.938409	
0.75000	-0.450955	-26.255961	-0.335807
-0.000732	-0.373540	-32.318430	
1.00000	-0.450955	-13.230856	-0.335807
-0.000732	-0.712067	-77.382794	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.381494	13.820443	0.274220
0.001211	0.673465	27.738640	
0.25000	0.381494	34.339807	0.274220
0.001211	0.345953	84.520044	
0.50000	0.381494	63.932567	0.274220
0.001211	0.098101	106.861942	
0.75000	0.381494	91.754454	0.274220
0.001211	0.461835	83.663676	
1.00000	0.381494	121.288218	0.274220
0.001211	0.870143	25.764503	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.450955	-120.790808	-0.335807
-0.000860	-0.815972	-81.791984	
0.25000	-0.450955	-91.282750	-0.335807
-0.000860	-0.401862	-31.936743	
0.50000	-0.450955	-63.456344	-0.335807
-0.000860	-0.051323	-31.938409	
0.75000	-0.450955	-33.864976	-0.335807
-0.000860	-0.373540	-32.318430	
1.00000	-0.450955	-13.230856	-0.335807
-0.000860	-0.712067	-83.137939	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.381494	13.820443	0.274220
0.001211	0.673465	27.738640	
0.25000	0.381494	34.339807	0.274220
0.001211	0.345953	84.520044	
0.50000	0.381494	63.932567	0.274220
0.001211	0.098101	106.861942	
0.75000	0.381494	91.754454	0.274220
0.001211	0.461835	83.663676	
1.00000	0.381494	121.288218	0.274220
0.001211	0.870143	25.764503	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.450955	-120.790808	-0.335807
-0.000860	-0.815972	-81.791984	
0.25000	-0.450955	-91.282750	-0.335807
-0.000860	-0.401862	-31.936743	
0.50000	-0.450955	-63.456344	-0.335807
-0.000860	-0.051323	-31.938409	
0.75000	-0.450955	-33.864976	-0.335807
-0.000860	-0.373540	-32.318430	
1.00000	-0.450955	-13.230856	-0.335807
-0.000860	-0.712067	-83.137939	

ELEM 414 ========== LENGTH = 4.972522

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.119716	0.906471	0.092420
0.001081	0.230537	7.580837	
0.25000	0.119716	0.930640	0.092420
0.001081	0.115654	6.690978	
0.50000	0.119716	0.962410	0.092420
0.001081	0.018319	5.841414	
0.75000	0.119716	0.992268	0.092420
0.001081	0.105532	5.133973	
1.00000	0.119716	1.023972	0.092420
0.001081	0.211809	4.586118	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.109566	-0.257347	-0.085490
-6.82E-06	-0.213343	-3.046947	
0.25000	-0.109566	-0.225754	-0.085490
-6.82E-06	-0.107058	-2.972930	
0.50000	-0.109566	-0.195879	-0.085490
-6.82E-06	-0.009004	-2.953182	
0.75000	-0.109566	-0.164116	-0.085490
-6.82E-06	-0.114161	-2.934574	
1.00000	-0.109566	-0.140709	-0.085490
-6.82E-06	-0.229042	-2.970345	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197400	12.345228	0.119660
0.001394	0.298358	25.405254	
0.25000	0.197400	34.869955	0.119660
0.001394	0.163302	82.217712	
0.50000	0.197400	64.479976	0.119660
0.001394	0.076721	103.706516	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.197400	92.308025	0.119660
0.001394	0.226129	79.173559	
1.00000	0.197400	121.855760	0.119660
0.001394	0.425138	20.340914	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.176879	-120.244877	-0.165478
-5.95E-05	-0.427132	-83.142812	
0.25000	-0.176879	-90.799890	-0.165478
-5.95E-05	-0.224385	-32.371954	
0.50000	-0.176879	-62.956211	-0.165478
-5.95E-05	-0.054285	-32.013248	
0.75000	-0.176879	-33.353894	-0.165478
-5.95E-05	-0.166433	-32.689208	
1.00000	-0.176879	-10.951315	-0.165478
-5.95E-05	-0.311659	-84.046658	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.191938	9.426204	0.143750
0.001387	0.357986	25.794121	
0.25000	0.191938	24.760902	0.143750
0.001387	0.188621	63.373525	
0.50000	0.191938	44.919227	0.143750
0.001387	0.070331	77.205709	
0.75000	0.191938	63.864395	0.143750
0.001387	0.291079	59.666864	
1.00000	0.191938	83.980316	0.143750
0.001387	0.552434	19.161865	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.208778	-81.975851	-0.215064
-0.000405	-0.537510	-59.966331	
0.25000	-0.208778	-61.929881	-0.215064
-0.000405	-0.272347	-25.349593	
0.50000	-0.208778	-42.974071	-0.215064
-0.000405	-0.046979	-25.053195	
0.75000	-0.208778	-22.820992	-0.215064
-0.000405	-0.190883	-25.461201	
1.00000	-0.208778	-7.569450	-0.215064
-0.000405	-0.367174	-60.372859	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.214432	8.160711	0.177428
0.001156	0.441160	24.264334	
0.25000	0.214432	20.885248	0.177428
0.001156	0.228305	55.060064	
0.50000	0.214432	37.612368	0.177428
0.001156	0.068685	66.078933	
0.75000	0.214432	53.332827	0.177428
0.001156	0.318541	51.356361	
1.00000	0.214432	70.024761	0.177428
0.001156	0.606577	17.523765	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.237186	-68.103369	-0.235810
-0.000714	-0.583155	-51.480007	
0.25000	-0.237186	-51.469479	-0.235810
-0.000714	-0.292157	-22.708230	
0.50000	-0.237186	-35.740190	-0.235810
-0.000714	-0.044178	-22.415036	
0.75000	-0.237186	-19.017422	-0.235810
-0.000714	-0.231179	-22.706346	
1.00000	-0.237186	-6.361888	-0.235810
-0.000714	-0.449711	-51.628346	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.066210	9.847833	0.024471
0.000231	0.060228	16.800441	

4280

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.066210	28.698999	0.024471
0.000231	0.041297	64.912921	
0.50000	0.066210	53.479917	0.024471
0.000231	0.053524	83.426914	
0.75000	0.066210	76.769486	0.024471
0.000231	0.140483	63.325601	
1.00000	0.066210	101.498278	0.024471
0.000231	0.255135	14.420341	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.059539	-100.600432	-0.095989
-0.000187	-0.247182	-67.812690	
0.25000	-0.059539	-75.957632	-0.095989
-0.000187	-0.130365	-25.323604	
0.50000	-0.059539	-52.654982	-0.095989
-0.000187	-0.040028	-25.024768	
0.75000	-0.059539	-27.880511	-0.095989
-0.000187	-0.046515	-25.591823	
1.00000	-0.059539	-9.131571	-0.095989
-0.000187	-0.073995	-68.574717	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.088714	9.783860	0.078348
0.000269	0.194381	21.085213	
0.25000	0.088714	27.329945	0.078348
0.000269	0.107629	65.117093	
0.50000	0.088714	50.395262	0.078348
0.000269	0.063929	81.722400	
0.75000	0.088714	72.072476	0.078348
0.000269	0.239965	62.531686	
1.00000	0.088714	95.089274	0.078348
0.000269	0.447146	16.713178	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.129274	-93.677091	-0.170308
-0.000632	-0.423260	-65.629513	
0.25000	-0.129274	-70.740390	-0.170308
-0.000632	-0.214128	-26.028164	
0.50000	-0.129274	-49.050940	-0.170308
-0.000632	-0.044782	-25.696201	
0.75000	-0.129274	-25.991625	-0.170308
-0.000632	-0.112475	-26.170183	
1.00000	-0.129274	-8.540689	-0.170308
-0.000632	-0.207051	-66.123523	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.168080	8.110106	0.132146
0.001071	0.328665	23.880939	
0.25000	0.168080	20.530124	0.132146
0.001071	0.171888	53.867732	
0.50000	0.168080	36.856937	0.132146
0.001071	0.066689	64.641657	
0.75000	0.168080	52.201180	0.132146
0.001071	0.280757	50.180684	
1.00000	0.168080	68.493649	0.132146
0.001071	0.551205	17.541227	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.199957	-66.472116	-0.210151
-0.000573	-0.511188	-49.757998	
0.25000	-0.199957	-50.236302	-0.210151
-0.000573	-0.252599	-21.691230	
0.50000	-0.199957	-34.883441	-0.210151
-0.000573	-0.041570	-21.421493	
0.75000	-0.199957	-18.569876	-0.210151
-0.000573	-0.174468	-21.722272	
1.00000	-0.199957	-6.208209	-0.210151
-0.000573	-0.336677	-49.968562	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.214762	7.036120	0.173150
0.000893	0.430050	22.358949	
0.25000	0.214762	17.440513	0.173150
0.000893	0.221127	47.706889	
0.50000	0.214762	31.117674	0.173150
0.000893	0.062779	55.953352	
0.75000	0.214762	43.971725	0.173150
0.000893	0.322099	43.731548	
1.00000	0.214762	57.620115	0.173150
0.000893	0.608295	15.941276	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.240980	-55.762961	-0.232835
-0.000843	-0.564123	-43.332877	
0.25000	-0.240980	-42.162031	-0.232835
-0.000843	-0.278705	-19.770098	
0.50000	-0.240980	-29.300760	-0.232835
-0.000843	-0.039798	-19.493215	
0.75000	-0.240980	-15.627158	-0.232835
-0.000843	-0.222445	-19.694259	
1.00000	-0.240980	-5.279186	-0.232835
-0.000843	-0.437882	-43.305583	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.128245	0.389224	0.099506
4.86E-07	0.246543	3.590328	
0.25000	0.128245	0.413392	0.099506
4.86E-07	0.122848	3.212225	
0.50000	0.128245	0.445162	0.099506
4.86E-07	0.010577	2.810584	
0.75000	0.128245	0.475021	0.099506
4.86E-07	0.119605	2.374208	
1.00000	0.128245	0.506724	0.099506
4.86E-07	0.230820	1.926840	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.132504	-0.251225	-0.089514
-0.000561	-0.218833	-2.639958	
0.25000	-0.132504	-0.219631	-0.089514
-0.000561	-0.109218	-2.503692	
0.50000	-0.132504	-0.189756	-0.089514
-0.000561	-0.007728	-2.421517	
0.75000	-0.132504	-0.157994	-0.089514
-0.000561	-0.124583	-2.340451	
1.00000	-0.132504	-0.133957	-0.089514
-0.000561	-0.248294	-2.313799	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.169348	1.212668	0.158277
2.47E-06	0.392177	7.843629	
0.25000	0.169348	1.937712	0.158277
2.47E-06	0.195800	8.724916	
0.50000	0.169348	2.890825	0.158277
2.47E-06	0.022277	8.595794	
0.75000	0.169348	3.786577	0.158277
2.47E-06	0.210769	7.063760	
1.00000	0.169348	4.737685	0.158277
2.47E-06	0.405525	4.612894	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.202513	-4.078889	-0.156955
-0.000995	-0.379026	-7.108499	
0.25000	-0.202513	-3.131089	-0.156955
-0.000995	-0.187221	-5.344053	
0.50000	-0.202513	-2.234833	-0.156955
-0.000995	-0.015094	-5.202309	
0.75000	-0.202513	-1.281969	-0.156955
-0.000995	-0.198679	-5.093869	
1.00000	-0.202513	-0.560855	-0.156955
-0.000995	-0.395342	-6.616836	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.182051	2.076032	0.165293
0.000209	0.409565	13.382329	
0.25000	0.182051	3.228853	0.165293
0.000209	0.204702	14.716417	
0.50000	0.182051	4.744302	0.165293
0.000209	0.035776	14.447367	
0.75000	0.182051	6.168548	0.165293
0.000209	0.285523	12.108282	
1.00000	0.182051	7.680809	0.165293
0.000209	0.547955	8.306592	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.224884	-6.434422	-0.211685
-0.001149	-0.509341	-10.355853	
0.25000	-0.224884	-4.927420	-0.211685
-0.001149	-0.249530	-7.605336	
0.50000	-0.224884	-3.502373	-0.211685
-0.001149	-0.021014	-7.434914	
0.75000	-0.224884	-1.987319	-0.211685
-0.001149	-0.207986	-7.317446	
1.00000	-0.224884	-0.840749	-0.211685
-0.001149	-0.413201	-9.793893	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.222975	7.807864	0.174205
0.000653	0.432388	22.388770	
0.25000	0.222975	20.097374	0.174205
0.000653	0.223269	52.265737	
0.50000	0.222975	36.252627	0.174205
0.000653	0.064532	63.034787	
0.75000	0.222975	51.435634	0.174205
0.000653	0.330168	48.922086	
1.00000	0.222975	67.556904	0.174205
0.000653	0.623735	16.302415	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.252770	-65.846799	-0.239008
-0.001016	-0.583706	-49.749426	
0.25000	-0.252770	-49.781589	-0.239008
-0.001016	-0.291073	-21.927273	
0.50000	-0.252770	-34.590053	-0.239008
-0.001016	-0.042693	-21.609999	
0.75000	-0.252770	-18.439704	-0.239008
-0.001016	-0.227590	-21.857235	
1.00000	-0.252770	-6.216137	-0.239008
-0.001016	-0.442189	-49.756354	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.198635	0.917345	0.162114
0.001021	0.394600	7.308686	
0.25000	0.198635	0.925551	0.162114
0.001021	0.193327	6.402325	
0.50000	0.198635	0.945000	0.162114
0.001021	0.019883	5.514216	
0.75000	0.198635	0.966178	0.162114
0.001021	0.188808	4.667631	
1.00000	0.198635	0.984764	0.162114
0.001021	0.368364	3.869225	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.216672	-0.269678	-0.144353
-5.41E-06	-0.349080	-4.641947	
0.25000	-0.216672	-0.251097	-0.144353
-5.41E-06	-0.169561	-4.497711	
0.50000	-0.216672	-0.229926	-0.144353
-5.41E-06	-0.012665	-4.181764	
0.75000	-0.216672	-0.210499	-0.144353
-5.41E-06	-0.210258	-3.965537	
1.00000	-0.216672	-0.202356	-0.144353
-5.41E-06	-0.411551	-3.778174	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335194	14.015962	0.210130
0.001271	0.508068	23.127686	
0.25000	0.335194	27.079997	0.210130
0.001271	0.267060	61.994957	
0.50000	0.335194	58.042182	0.210130
0.001271	0.080764	83.461020	
0.75000	0.335194	91.757115	0.210130
0.001271	0.370303	59.083674	
1.00000	0.335194	121.346673	0.210130
0.001271	0.686588	17.808012	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.322501	-120.013064	-0.266939
-4.52E-05	-0.664556	-77.366766	
0.25000	-0.322501	-90.432295	-0.266939
-4.52E-05	-0.337244	-32.206302	
0.50000	-0.322501	-56.727659	-0.266939
-4.52E-05	-0.050214	-31.893438	
0.75000	-0.322501	-25.799840	-0.266939
-4.52E-05	-0.300561	-31.704671	
1.00000	-0.322501	-12.836089	-0.266939
-4.52E-05	-0.561600	-76.747538	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.307789	10.922641	0.264437
0.001275	0.635298	24.223785	
0.25000	0.307789	20.198761	0.264437
0.001275	0.320485	50.812923	

```
 0.50000     0.307789    42.183468     0.264437
 0.001275    0.079047    65.104389
 0.75000     0.307789    66.122765     0.264437
 0.001275    0.476006    46.950374
 1.00000     0.307789    87.132838     0.264437
 0.001275    0.896404    16.892659

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.346024  -85.439628   -0.347495
-0.000331   -0.848948   60.089264
 0.25000   -0.346024  -64.435795   -0.347495
-0.000331   -0.420679   -27.731451
 0.50000   -0.346024  -40.503809   -0.347495
-0.000331   -0.048982   -27.217540
 0.75000   -0.346024  -18.543504   -0.347495
-0.000331   -0.367166   -26.791472
 1.00000   -0.346024   -9.338589   -0.347495
-0.000331   -0.696011   -58.481775

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.333083    9.447391    0.319944
 0.001062    0.770936   23.220419
 0.25000    0.333083   17.146718    0.319944
 0.001062    0.384676   44.869451
 0.50000    0.333083   35.394376    0.319944
 0.001062    0.074465   56.326386
 0.75000    0.333083   55.264373    0.319944
 0.001062    0.538488   40.897671
 1.00000    0.333083   72.703068    0.319944
 0.001062    1.022877   15.603281

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.406605  -71.068669   -0.397470
-0.000612   -0.968215   -52.532084
 0.25000   -0.406605  -53.635154   -0.397470
-0.000612   -0.477317   -25.492367
 0.50000   -0.406605  -33.771225   -0.397470
-0.000612   -0.047720   -24.883626
 0.75000   -0.406605  -15.543821   -0.397470
-0.000612   -0.435148   -24.347809
 1.00000   -0.406605   -7.903596   -0.397470
-0.000612   -0.833157   -50.469052
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         4284

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.118151    9.588521    0.048444
 0.000208    0.113355   13.704520
 0.25000    0.118151   18.746475    0.048444
 0.000208    0.067336   41.231742
 0.50000    0.118151   40.451122    0.048444
 0.000208    0.049571   56.545271
 0.75000    0.118151   64.085460    0.048444
 0.000208    0.191350   39.848528
 1.00000    0.118151   84.827888    0.048444
 0.000208    0.345757   11.314200

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.099053  -84.169628   -0.133124
-0.000157   -0.333412   -52.586573
 0.25000   -0.099053  -63.433359   -0.133124
-0.000157   -0.171356   -20.988557
 0.50000   -0.099053  -39.806240   -0.133124
-0.000157   -0.030289   -20.826961
 0.75000   -0.099053  -18.125684   -0.133124
-0.000157   -0.084962   -20.756217
 1.00000   -0.099053   -9.038029   -0.133124
-0.000157   -0.145094   -52.390489

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.129990    9.751282    0.156471
 0.000251    0.372147   18.367473
 0.25000    0.129990   18.490727    0.156471
 0.000251    0.190673   43.981995
 0.50000    0.129990   39.203495    0.156471
 0.000251    0.062616   57.983184
 0.75000    0.129990   61.757769    0.156471
 0.000251    0.359986   41.397922
 1.00000    0.129990   81.552291    0.156471
 0.000251    0.670329   13.564339

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.184221  -80.439132   -0.258567
-0.000530   -0.632895   -54.114260
 0.25000   -0.184221  -60.650489   -0.258567
-0.000530   -0.315173   -23.714563
 0.50000   -0.184221  -38.103104   -0.258567
-0.000530   -0.039223   -23.316808
 0.75000   -0.184221  -17.413325   -0.258567
-0.000530   -0.226280   -23.001870
 1.00000   -0.184221   -8.740967   -0.258567
-0.000530   -0.421025   -52.944910

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.271309    7.600240    0.240560
 0.000975    0.576278   21.150890
 0.25000    0.271309   13.279648    0.240560
 0.000975    0.285943   36.507436
 0.50000    0.271309   26.740030    0.240560
 0.000975    0.065028   44.376912
 0.75000    0.271309   41.397132    0.240560
 0.000975    0.467240   32.745180
 1.00000    0.271309   54.260783    0.240560
 0.000975    0.884167   13.976915

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.316349  -52.625760   -0.341494
-0.000482   -0.825387   -40.778437
 0.25000   -0.316349  -39.765929   -0.341494
-0.000482   -0.403660   -20.732948
 0.50000   -0.316349  -25.113304   -0.341494
-0.000482   -0.040205   -20.371076
 0.75000   -0.316349  -11.667862   -0.341494
-0.000482   -0.330100   -19.907777
 1.00000   -0.316349   -6.032051   -0.341494
-0.000482   -0.629284   -39.106449
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         4285

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.328760    6.698343    0.302288
 0.000813    0.727138   20.517786
 0.25000    0.328760   11.468110    0.302288
 0.000813    0.358283   33.057700

 0.50000    0.328760   22.772614    0.302288
 0.000813    0.062916   39.315354
 0.75000    0.328760   35.082165    0.302288
 0.000813    0.544835   29.190062
 1.00000    0.328760   45.885513    0.302288
 0.000813    1.039840   13.072038

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.397794  -44.340957   -0.403271
-0.000744   -0.975260   -36.875134
 0.25000   -0.397794  -33.540818   -0.403271
-0.000744   -0.476799   -19.852323
 0.50000   -0.397794  -21.235026   -0.403271
-0.000744   -0.040574   -19.359249
 0.75000   -0.397794   -9.943070   -0.403271
-0.000744   -0.407430   -18.782011
 1.00000   -0.397794   -5.209916   -0.403271
-0.000744   -0.783526   -34.717594

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.182284    0.505235    0.154012
 2.83E-07    0.373403    4.233368
 0.25000    0.182284    0.513441    0.154012
 2.83E-07    0.181677    3.703885
 0.50000    0.182284    0.532889    0.154012
 2.83E-07    0.012859    3.170614
 0.75000    0.182284    0.554067    0.154012
 2.83E-07    0.247483    2.616484
 1.00000    0.182284    0.572653    0.154012
 2.83E-07    0.483297    2.054817

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.224090   -0.314181   -0.189630
-0.000531   -0.461300   -4.190660
 0.25000   -0.224090   -0.295600   -0.189630
-0.000531   -0.226496   -3.864823
 0.50000   -0.224090   -0.274429   -0.189630
-0.000531   -0.010663   -3.567112
 0.75000   -0.224090   -0.255002   -0.189630
-0.000531   -0.200026   -3.269370
 1.00000   -0.224090   -0.246859   -0.189630
-0.000531   -0.391861   -3.000104

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.242530    1.286799    0.267394
 1.68E-06    0.647911    8.570241
 0.25000    0.242530    1.557599    0.267394
 1.68E-06    0.315434    8.253416
 0.50000    0.242530    2.199403    0.267394
 1.68E-06    0.025454    7.702214
 0.75000    0.242530    2.898268    0.267394
 1.68E-06    0.409645    6.235593
 1.00000    0.242530    3.511619    0.267394
 1.68E-06    0.796871    4.447716

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.345245   -2.910287   -0.311807
-0.000916   -0.755505   -8.689855
 0.25000   -0.345245   -2.297117   -0.311807
-0.000916   -0.369291   -7.459867
 0.50000   -0.345245   -1.598466   -0.311807
-0.000916   -0.019816   -6.957029
 0.75000   -0.345245   -0.957374   -0.311807
-0.000916   -0.348122   -6.456692
 1.00000   -0.345245   -0.686653   -0.311807
-0.000916   -0.681245   -6.893889
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         4286

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.253722    1.680496    0.284444
 0.000203    0.683803   13.215960
 0.25000    0.253722    1.687881    0.284444
 0.000203    0.329647   11.470465
 0.50000    0.253722    1.705385    0.284444
 0.000203    0.037484    9.784851
 0.75000    0.253722    1.724445    0.284444
 0.000203    0.505004    8.338797
 1.00000    0.253722    1.741172    0.284444
 0.000203    0.978081    7.029913

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.358742   -0.661759   -0.380603
-0.001024   -0.917092   -10.191390
 0.25000   -0.358742   -0.645036   -0.380603
-0.001024   -0.445157   -9.705917
 0.50000   -0.358742   -0.625982   -0.380603
-0.001024   -0.026189   -8.851626
 0.75000   -0.358742   -0.608498   -0.380603
-0.001024   -0.374403   -8.193676
 1.00000   -0.358742   -0.601169   -0.380603
-0.001024   -0.728672   -7.560794

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.341357    7.011152    0.298191
 0.000604    0.717027   20.115738
 0.25000    0.341357   12.180964    0.298191
 0.000604    0.353841   33.977752
 0.50000    0.341357   24.433588    0.298191
 0.000604    0.062622   41.009853
 0.75000    0.341357   37.775553    0.298191
 0.000604    0.562988   30.275651
 1.00000    0.341357   49.484988    0.298191
 0.000604    1.076138   13.004120

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.410079  -48.063384   -0.418128
-0.000917   -1.014347   -38.945019
 0.25000   -0.410079  -36.357076   -0.418128
-0.000917   -0.497743   -20.552088
 0.50000   -0.410079  -23.019186   -0.418128
-0.000917   -0.041158   -20.015562
 0.75000   -0.410079  -10.780162   -0.418128
-0.000917   -0.402760   -19.418640
 1.00000   -0.410079   -5.650035   -0.418128
-0.000917   -0.773921   -36.611474

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.222975   12.345228    0.177428
 0.001394    0.441160   25.794121
 0.25000    0.222975   34.869955    0.177428
 0.001394    0.228305   82.217712
 0.50000    0.222975   64.479976    0.177428
 0.001394    0.076721   103.706516
 0.75000    0.222975   92.308025    0.177428
 0.001394    0.330168   79.173559
 1.00000    0.222975  121.855760    0.177428
 0.001394    0.623735   20.340914

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.252770  -120.244877   -0.239008
-0.001149   -0.583706   -83.142812
 0.25000   -0.252770   -90.799890   -0.239008
-0.001149   -0.292157   -32.371954
 0.50000   -0.252770   -62.956211   -0.239008
-0.001149   -0.054285   -32.013248
 0.75000   -0.252770   -33.353894   -0.239008
-0.001149   -0.231179   -32.689208
 1.00000   -0.252770   -10.951315   -0.239008
-0.001149   -0.497111   -84.046658
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         4287

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.341357   14.015962    0.319944
 0.001275    0.770936   24.223785
 0.25000    0.341357   27.079997    0.319944
 0.001275    0.384676   61.994957
 0.50000    0.341357   58.042182    0.319944
 0.001275    0.080764   83.461020
 0.75000    0.341357   91.757115    0.319944
 0.001275    0.562988   59.083674
 1.00000    0.341357  121.346673    0.319944
 0.001275    1.076138   17.808012

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.410079  -120.013064   -0.418128
-0.001024   -1.014347   -77.366766
 0.25000   -0.410079   -90.432295   -0.418128
-0.001024   -0.497743   -32.206302
 0.50000   -0.410079   -56.727659   -0.418128
-0.001024   -0.050214   -31.893438
 0.75000   -0.410079   -25.799840   -0.418128
-0.001024   -0.435148   -31.704671
 1.00000   -0.410079   -12.836089   -0.418128
-0.001024   -0.833157   -76.747538

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.341357   14.015962    0.319944
 0.001394    0.770936   25.794121
 0.25000    0.341357   34.869955    0.319944
 0.001394    0.384676   82.217712
 0.50000    0.341357   64.479976    0.319944
 0.001394    0.080764   103.706516
 0.75000    0.341357   92.308025    0.319944
 0.001394    0.562988   79.173559
 1.00000    0.341357  121.855760    0.319944
 0.001394    1.076138   20.340914

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.410079  -120.244877   -0.418128
-0.001149   -1.014347   -83.142812
 0.25000   -0.410079   -90.799890   -0.418128
-0.001149   -0.497743   -32.371954
 0.50000   -0.410079   -62.956211   -0.418128
-0.001149   -0.054285   -32.013248
 0.75000   -0.410079   -33.353894   -0.418128
-0.001149   -0.435148   -32.689208
 1.00000   -0.410079   -12.836089   -0.418128
-0.001149   -0.833157   -84.046658

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.341357   14.015962    0.319944
 0.001394    0.770936   25.794121
 0.25000    0.341357   34.869955    0.319944
 0.001394    0.384676   82.217712
 0.50000    0.341357   64.479976    0.319944
 0.001394    0.080764   103.706516
 0.75000    0.341357   92.308025    0.319944
 0.001394    0.562988   79.173559
 1.00000    0.341357  121.855760    0.319944
 0.001394    1.076138   20.340914

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.410079  -120.244877   -0.418128
-0.001149   -1.014347   -83.142812
 0.25000   -0.410079   -90.799890   -0.418128
-0.001149   -0.497743   -32.371954
 0.50000   -0.410079   -62.956211   -0.418128
-0.001149   -0.054285   -32.013248
 0.75000   -0.410079   -33.353894   -0.418128
-0.001149   -0.435148   -32.689208
 1.00000   -0.410079   -12.836089   -0.418128
-0.001149   -0.833157   -84.046658
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         4288

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      415 ================== LENGTH =    4.972986

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.117639    0.654257    0.091793
 0.001234    0.228198    4.600580
 0.25000    0.117639    0.678446    0.091793
 0.001234    0.114080    4.041684
 0.50000    0.117639    0.710283    0.091793
 0.001234    0.012179    3.517672
 0.75000    0.117639    0.740163    0.091793
 0.001234    0.108420    3.115894
 1.00000    0.117639    0.772104    0.091793
 0.001234    0.212593    2.817830

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.108820   -0.221168   -0.084843
-5.87E-06   -0.210965   -2.984479
 0.25000   -0.108820   -0.189602   -0.084843
-5.87E-06   -0.105470   -3.106367
 0.50000   -0.108820   -0.159671   -0.084843
-5.87E-06   -0.009990   -3.282136
 0.75000   -0.108820   -0.127897   -0.084843
-5.87E-06   -0.114165   -3.458735
 1.00000   -0.108820   -0.103947   -0.084843
-5.87E-06   -0.228285   -3.690322

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.201903   11.536874    0.125385
 0.001550    0.306357   20.371869
 0.25000    0.201903   34.081769    0.125385
 0.001550    0.159498   77.747327
 0.50000    0.201903   63.753393    0.125385
 0.001550    0.064581   99.653358
 0.75000    0.201903   91.601473    0.125385
 0.001550    0.245863   72.893898
 1.00000    0.201903  121.370343    0.125385
 0.001550    0.463093   17.467658

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.175365  -120.294144   -0.180258
-6.16E-05   -0.467684   -84.054253
 0.25000   -0.175365   -90.874546   -0.180258
-6.16E-05   -0.243741   -33.322829
 0.50000   -0.175365   -62.978628   -0.180258
-6.16E-05   -0.057041   -32.790005
 0.75000   -0.175365   -33.364945   -0.180258
-6.16E-05   -0.168180   -33.026234
 1.00000   -0.175365   -11.043707   -0.180258
-6.16E-05   -0.317176   -84.511140

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.193516    8.573832    0.145904
 0.001344    0.360525   19.205170
 0.25000    0.193516   23.922261    0.145904
 0.001344    0.185282   57.538689
 0.50000    0.193516   44.122524    0.145904
 0.001344    0.057449   71.865762
 0.75000    0.193516   63.081330    0.145904
 0.001344    0.318341   53.285158
 1.00000    0.193516   83.347797    0.145904
 0.001344    0.612912   15.356939

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.196319   -82.019982   -0.240759
-0.000452   -0.608181   -60.389392
 0.25000   -0.196319   -61.991297   -0.240759
-0.000452   -0.309091   -26.011801
 0.50000   -0.196319   -42.999923   -0.240759
-0.000452   -0.049509   -25.808979
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         4289

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.75000   -0.196319   -22.839105   -0.240759
-0.000452   -0.195159   -26.129687
 1.00000   -0.196319    -7.642941   -0.240759
-0.000452   -0.369056   -61.340184

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.209089    7.358919    0.179490
 0.001120    0.444512   17.572697
 0.25000    0.209089   20.094849    0.179490
 0.001120    0.226483   49.108128
 0.50000    0.209089   36.856770    0.179490
 0.001120    0.051935   60.775596
 0.75000    0.209089   52.588545    0.179490
 0.001120    0.349068   45.194116
 1.00000    0.209089   69.405401    0.179490
 0.001120    0.676171   13.629144

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.226453   -68.121294   -0.266296
-0.000822   -0.667963   -51.647554
 0.25000   -0.226453   -51.501746   -0.266296
-0.000822   -0.337135   -23.159943
 0.50000   -0.226453   -35.742947   -0.266296
-0.000822   -0.046442   -23.030413
 0.75000   -0.226453   -19.013758   -0.266296
-0.000822   -0.234776   -23.335328
 1.00000   -0.226453    -6.404175   -0.266296
-0.000822   -0.452086   -52.591380

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.073513    9.327741    0.033156
 0.000176    0.073886   14.439984
 0.25000    0.073513   28.195786    0.033156
 0.000176    0.040245   62.821095
 0.50000    0.073513   53.028260    0.033156
 0.000176    0.047617   81.490372
 0.75000    0.073513   76.334594    0.033156
 0.000176    0.150777   59.344264
 1.00000    0.073513  101.248455    0.033156
 0.000176    0.280249   13.117503

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.058857  -100.695266   -0.108744
-0.000211   -0.288642   -68.570862
 0.25000   -0.058857   -76.073714   -0.108744
-0.000211   -0.153685   -25.994523
 0.50000   -0.058857   -52.727344   -0.108744
-0.000211   -0.041559   -25.429786
 0.75000   -0.058857   -27.943360   -0.108744
-0.000211   -0.055483   -25.509049
 1.00000   -0.058857    -9.262497   -0.108744
-0.000211   -0.090948   -68.478975

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.090611    9.105888    0.081956
 7.49E-05    0.201089   16.747254
 0.25000    0.090611   26.667683    0.081956
 7.49E-05    0.106267   61.277843
 0.50000    0.090611   49.780987    0.081956
 7.49E-05    0.052937   78.249417
 0.75000    0.090611   71.473805    0.081956
 7.49E-05    0.260004   57.379384
 1.00000    0.090611   94.662860    0.081956
 7.49E-05    0.497170   14.267376

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.122159   -93.749613   -0.195022
-0.000718   -0.499365   -66.128228
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                     Page
<                 MOVING                LOAD                >
                                         4290

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.25000   -0.122159   -70.832630   -0.195022
-0.000718   -0.257032   -26.590865
 0.50000   -0.122159   -49.102547   -0.195022
-0.000718   -0.046531   -26.156548
 0.75000   -0.122159   -26.034378   -0.195022
-0.000718   -0.117979   -26.321294
 1.00000   -0.122159    -8.646805   -0.195022
-0.000718   -0.212030   -66.407267

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.167363    7.321805    0.134107
 0.000955    0.331630   17.586329
 0.25000    0.167363   19.752944    0.134107
 0.000955    0.169942   48.292018
```

0.50000	0.167363	36.113724	0.134107
0.000955	0.051275	59.681536	
0.75000	0.167363	51.469012	0.134107
0.000955	0.321580	44.554623	
1.00000	0.167363	67.883414	0.134107
0.000955	0.622388	13.881214	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192193	-66.607157	-0.245119
-0.000651	-0.615756	-49.984225	
0.25000	-0.192193	-50.385342	-0.245119
-0.000651	-0.311311	-22.181405	
0.50000	-0.192193	-35.003676	-0.245119
-0.000651	-0.043716	-22.057726	
0.75000	-0.192193	-18.674843	-0.245119
-0.000651	-0.179915	-22.358102	
1.00000	-0.192193	-6.367028	-0.245119
-0.000651	-0.340917	-50.916776	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.206451	6.297136	0.175131
0.000796	0.434000	15.994279	
0.25000	0.206451	16.710845	0.175131
0.000796	0.220489	41.541206	
0.50000	0.206451	30.416461	0.175131
0.000796	0.046518	50.911841	
0.75000	0.206451	43.279764	0.175131
0.000796	0.353470	38.074877	
1.00000	0.206451	57.030299	0.175131
0.000796	0.687319	12.210684	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.225675	-55.844540	-0.271215
-0.000973	-0.677473	-43.323202	
0.25000	-0.225675	-42.255337	-0.271215
-0.000973	-0.340608	-20.056678	
0.50000	-0.225675	-29.369937	-0.271215
-0.000973	-0.041703	-19.977716	
0.75000	-0.225675	-15.691084	-0.271215
-0.000973	-0.228448	-20.253983	
1.00000	-0.225675	-5.380684	-0.271215
-0.000973	-0.441079	-44.202759	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.115306	0.271780	0.100023
5.34E-07	0.248808	1.950469	
0.25000	0.115306	0.295970	0.100023
5.34E-07	0.124447	1.725161	
0.50000	0.115306	0.327806	0.100023
5.34E-07	0.005543	1.479412	
0.75000	0.115306	0.357686	0.100023
5.34E-07	0.132379	1.206105	
1.00000	0.115306	0.389627	0.100023
5.34E-07	0.261282	0.929486	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4291

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.120171	-0.212579	-0.103735
-0.000664	-0.254684	-2.319878	
0.25000	-0.120171	-0.181013	-0.103735
-0.000664	-0.125728	-2.295923	
0.50000	-0.120171	-0.151081	-0.103735
-0.000664	-0.007871	-2.326297	
0.75000	-0.120171	-0.119307	-0.103735
-0.000664	-0.124242	-2.357694	
1.00000	-0.120171	-0.095357	-0.103735
-0.000664	-0.248605	-2.444821	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.149843	0.956690	0.159170
3.51E-06	0.395865	4.649986	
0.25000	0.149843	1.682384	0.159170
3.51E-06	0.198256	5.834671	
0.50000	0.149843	2.637479	0.159170
3.51E-06	0.012856	5.988383	
0.75000	0.149843	3.533876	0.159170
3.51E-06	0.232306	4.709481	
1.00000	0.149843	4.492102	0.159170
3.51E-06	0.457879	2.702145	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.199697	-4.036758	-0.181711
-0.001183	-0.447021	-6.629439	
0.25000	-0.199697	-3.089775	-0.181711
-0.001183	-0.281187	-6.077792	
0.50000	-0.199697	-2.191838	-0.181711
-0.001183	-0.015507	-5.142559	
0.75000	-0.199697	-1.238607	-0.181711
-0.001183	-0.197987	-5.232137	
1.00000	-0.199697	-0.520113	-0.181711
-0.001183	-0.395667	-6.972441	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167462	1.619719	0.166213
5.28E-06	0.413696	8.356799	
0.25000	0.167462	2.773572	0.166213
5.28E-06	0.207349	10.231563	
0.50000	0.167462	4.292174	0.166213
5.28E-06	0.022273	10.481824	
0.75000	0.167462	5.717446	0.166213
5.28E-06	0.314452	8.520272	
1.00000	0.167462	7.241024	0.166213
5.28E-06	0.619584	5.328597	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.204328	-6.423296	-0.245822
-0.001335	-0.605041	-9.811129	
0.25000	-0.204388	-4.917594	-0.245822
-0.001335	-0.299567	-7.389358	
0.50000	-0.204388	-3.489874	-0.245822
-0.001335	-0.021789	-7.537294	
0.75000	-0.204388	-1.974238	-0.245822
-0.001335	-0.214786	-7.724619	
1.00000	-0.204388	-0.831831	-0.245822
-0.001335	-0.419404	-10.535844	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216890	7.076646	0.176861
0.000536	0.438040	16.357833	
0.25000	0.216890	19.377159	0.176861
0.000536	0.223089	46.888479	
0.50000	0.216890	35.566023	0.176861
0.000536	0.048810	58.231784	
0.75000	0.216890	50.759960	0.176861
0.000536	0.361879	43.238669	
1.00000	0.216890	67.001880	0.176861
0.000536	0.702460	12.776469	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4292

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.235366	-65.900602	-0.277104
-0.001106	-0.694334	-49.770674	
0.25000	-0.235366	-49.849244	-0.277104
-0.001106	-0.350034	-22.198520	
0.50000	-0.235366	-34.629207	-0.277104
-0.001106	-0.044508	-22.015107	
0.75000	-0.235366	-18.471956	-0.277104
-0.001106	-0.231518	-22.351285	
1.00000	-0.235366	-6.293470	-0.277104
-0.001106	-0.445845	-50.449724	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.174009	0.829471	0.180747
0.001259	0.439369	3.867426	
0.25000	0.174009	0.837904	0.180747
0.001259	0.214796	3.246343	
0.50000	0.174009	0.857391	0.180747
0.001259	0.010251	2.809309	
0.75000	0.174009	0.878578	0.180747
0.001259	0.204568	2.481462	
1.00000	0.174009	0.897113	0.180747
0.001259	0.403138	2.256149	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.252650	-0.232172	-0.160175
-5.54E-06	-0.392974	-3.779526	
0.25000	-0.252650	-0.213548	-0.160175
-5.54E-06	-0.193657	-3.679140	
0.50000	-0.252650	-0.192344	-0.160175
-5.54E-06	-0.012898	-4.223283	
0.75000	-0.252650	-0.172912	-0.160175
-5.54E-06	-0.234850	-4.664861	
1.00000	-0.252650	-0.164861	-0.160175
-5.54E-06	-0.459510	-5.224913	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.337229	13.547030	0.241566
0.001511	0.581220	17.819762	
0.25000	0.337229	26.973454	0.241566
0.001511	0.390607	55.822016	
0.50000	0.337229	57.996935	0.241566
0.001511	0.064129	78.503728	
0.75000	0.337229	91.726630	0.241566
0.001511	0.399184	54.353570	
1.00000	0.337229	121.233759	0.241566
0.001511	0.753566	14.036239	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.348173	-119.719600	-0.298567
-5.03E-05	-0.752415	-76.739044	
0.25000	-0.348173	-90.070491	-0.298567
-5.03E-05	-0.385127	-32.219177	
0.50000	-0.348173	-56.313692	-0.298567
-5.03E-05	-0.052314	-32.364477	
0.75000	-0.348173	-25.377219	-0.298567
-5.03E-05	-0.341166	-32.728615	
1.00000	-0.348173	-12.561051	-0.298567
-5.03E-05	-0.640336	-79.117610	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.316225	10.466906	0.309960
0.001344	0.746242	16.937731	
0.25000	0.316225	20.000342	0.309960
0.001344	0.374602	43.915625	
0.50000	0.316225	42.028572	0.309960
0.001344	0.057409	58.794968	
0.75000	0.316225	65.979351	0.309960
0.001344	0.520509	41.339019	
1.00000	0.316225	86.929895	0.309960
0.001344	1.000787	12.553654	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4293

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.365107	-85.202296	-0.396244
-0.000369	-0.985185	-58.503452	
0.25000	-0.365107	-64.149939	-0.396244
-0.000369	-0.495853	-26.339648	
0.50000	-0.365107	-40.180916	-0.396244
-0.000369	-0.050478	-27.270302	
0.75000	-0.365107	-18.214465	-0.396244
-0.000369	-0.425592	-27.924158	
1.00000	-0.365107	-9.114342	-0.396244
-0.000369	-0.808830	-61.358122	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.329763	8.989020	0.370535
0.001120	0.895696	15.671880	
0.25000	0.329763	16.901924	0.370535
0.001120	0.446265	37.767389	
0.50000	0.329763	35.185705	0.370535
0.001120	0.051875	49.856878	
0.75000	0.329763	55.064403	0.370535
0.001120	0.587862	35.222005	
1.00000	0.329763	72.454516	0.370535
0.001120	1.138868	11.239564	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.412697	-70.809596	-0.451536
-0.000733	-1.119466	-50.516840	
0.25000	-0.412697	-53.335764	-0.451536
-0.000733	-0.560920	-24.276242	
0.50000	-0.412697	-33.441093	-0.451536
-0.000733	-0.048470	-24.547429	
0.75000	-0.412697	-15.208589	-0.451536
-0.000733	-0.498772	-25.170187	
1.00000	-0.412697	-7.655342	-0.451536
-0.000733	-0.957976	-53.047725	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.153444	9.280223	0.065335
0.000165	0.151375	11.340245	
0.25000	0.153444	18.692214	0.065335
0.000165	0.084005	38.843394	
0.50000	0.153444	40.439829	0.065335
0.000165	0.041681	54.126382	
0.75000	0.153444	64.084515	0.065335
0.000165	0.204885	37.390345	
1.00000	0.153444	84.769161	0.065335
0.000165	0.380537	9.306211	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.087456	-83.975592	-0.150835
-0.000175	-0.384740	-52.392669	
0.25000	-0.087456	-63.191418	-0.150835
-0.000175	-0.200003	-21.103837	
0.50000	-0.087456	-39.527732	-0.150835
-0.000175	-0.031629	-21.036153	
0.75000	-0.087456	-17.841109	-0.150835
-0.000175	-0.107036	-21.107051	
1.00000	-0.087456	-8.856911	-0.150835
-0.000175	-0.187464	-53.409127	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.159665	9.360786	0.190159
5.97E-05	0.455663	13.629988	
0.25000	0.159665	18.342659	0.190159
5.97E-05	0.231831	39.423074	
0.50000	0.159665	39.096432	0.190159
5.97E-05	0.047809	53.665099	
0.75000	0.159665	61.660581	0.190159
5.97E-05	0.392120	37.413672	
1.00000	0.159665	81.399961	0.190159
5.97E-05	0.749584	10.439428	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4294

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.174552	-80.216470	-0.297030
-0.000615	-0.742670	-52.982820	
0.25000	-0.174552	-60.382110	-0.297030
-0.000615	-0.376569	-23.112981	
0.50000	-0.174552	-37.799830	-0.297030
-0.000615	-0.040138	-23.127609	
0.75000	-0.174552	-17.104262	-0.297030
-0.000615	-0.269242	-23.418199	
1.00000	-0.174552	-8.530632	-0.297030
-0.000615	-0.504104	-54.545932	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.289232	7.221757	0.285667
0.000930	0.687478	14.040398	
0.25000	0.289232	13.058709	0.285667
0.000930	0.340584	29.858418	
0.50000	0.289232	26.545738	0.285667
0.000930	0.044285	38.416521	
0.75000	0.289232	41.209257	0.285667
0.000930	0.512345	27.611756	
1.00000	0.289232	54.037074	0.285667
0.000930	0.993893	10.061356	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.314644	-52.482547	-0.393660
-0.000559	-0.973385	-39.144063	
0.25000	-0.314644	-39.593007	-0.393660
-0.000559	-0.486234	-19.880802	
0.50000	-0.314644	-24.917705	-0.393660
-0.000559	-0.041238	-20.447498	
0.75000	-0.314644	-11.468501	-0.393660
-0.000559	-0.388618	-21.114276	
1.00000	-0.314644	-5.896849	-0.393660
-0.000559	-0.742802	-41.915210	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335022	6.292579	0.353507
0.000775	0.854698	13.159214	
0.25000	0.335022	11.194658	0.353507
0.000775	0.421667	26.201993	
0.50000	0.335022	22.521541	0.353507
0.000775	0.041062	33.170701	
0.75000	0.335022	34.836481	0.353507
0.000775	0.597459	23.943426	
1.00000	0.335022	45.609734	0.353507
0.000775	1.161820	9.081631	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.370496	-44.143105	-0.460872
-0.000895	-1.138187	-34.779270	
0.25000	-0.370496	-33.318014	-0.460872
-0.000895	-0.567147	-18.540578	
0.50000	-0.370496	-20.993178	-0.460872
-0.000895	-0.000955	-18.982226	
0.75000	-0.370496	-9.698062	-0.460872
-0.000895	-0.472072	-19.592631	
1.00000	-0.370496	-5.018792	-0.460872
-0.000895	-0.910688	-37.146964	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.176164	0.371219	0.174877
3.17E-07	0.426520	2.109852	
0.25000	0.176164	0.379653	0.174877
3.17E-07	0.208328	1.758100	
0.50000	0.176164	0.399140	0.174877
3.17E-07	0.005982	1.433820	
0.75000	0.176164	0.420327	0.174877
3.17E-07	0.267304	1.198571	
1.00000	0.176164	0.438862	0.174877
3.17E-07	0.529581	0.997768	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4295

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.176524	-0.196378	-0.210960
-0.000665	-0.519793	-3.045435	
0.25000	-0.176524	-0.177755	-0.210960
-0.000665	-0.257445	-2.918764	
0.50000	-0.176524	-0.156551	-0.210960
-0.000665	-0.009856	-2.860822	
0.75000	-0.176524	-0.137118	-0.210960
-0.000665	-0.224216	-2.935898	
1.00000	-0.176524	-0.129068	-0.210960
-0.000665	-0.442058	-3.081865	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.223714	1.060958	0.303342
2.10E-06	0.739505	4.537385	
0.25000	0.223714	1.339270	0.303342
2.10E-06	0.361722	4.580733	
0.50000	0.223714	1.982344	0.303342
2.10E-06	0.012697	4.375591	
0.75000	0.223714	2.681515	0.303342
2.10E-06	0.444132	3.495952	
1.00000	0.223714	3.293158	0.303342
2.10E-06	0.878478	2.404523	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.299038	-2.733967	-0.349662
-0.001151	-0.861213	-6.972690	
0.25000	-0.299038	-2.119381	-0.349662
-0.001151	-0.426567	-5.928111	
0.50000	-0.299038	-1.419649	-0.349662
-0.001151	-0.018691	-5.899364	
0.75000	-0.299038	-0.778377	-0.349662
-0.001151	-0.390065	-6.103717	
1.00000	-0.299038	-0.512716	-0.349662
-0.001151	-0.767954	-7.362072	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.260302	1.396572	0.332806
2.87E-06	0.806043	7.140044	
0.25000	0.260302	1.404163	0.332806
2.87E-06	0.392004	5.898572	
0.50000	0.260302	1.421701	0.332806
2.87E-06	0.019304	4.889130	
0.75000	0.260302	1.440769	0.332806
2.87E-06	0.552424	4.355016	
1.00000	0.260302	1.457450	0.332806
2.87E-06	1.091126	4.073577	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.304648	-0.497246	-0.433142
-0.001240	-1.064788	-7.648664	
0.25000	-0.304648	-0.480484	-0.433142
-0.001240	-0.526044	-7.543132	
0.50000	-0.304648	-0.461401	-0.433142
-0.001240	-0.025083	-7.692741	
0.75000	-0.304648	-0.443931	-0.433142
-0.001240	-0.434691	-8.176359	
1.00000	-0.304648	-0.436666	-0.433142
-0.001240	-0.849026	-8.849058	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.359965	6.589189	0.349320
0.000498	0.844588	13.104006	
0.25000	0.359965	11.902409	0.349320
0.000498	0.417230	27.428824	
0.50000	0.359965	24.179289	0.349320
0.000498	0.041392	35.101346	
0.75000	0.359965	37.527095	0.349320
0.000498	0.613121	25.195674	
1.00000	0.359965	49.203911	0.349320
0.000498	1.196674	9.129538	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4296

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.362585	-47.825784	-0.475046
-0.001029	-1.174802	-36.679616	
0.25000	-0.362585	-36.092783	-0.475046
-0.001029	-0.586029	-19.127781	
0.50000	-0.362585	-22.734251	-0.475046
-0.001029	-0.041071	-19.302701	
0.75000	-0.362585	-10.491802	-0.475046
-0.001029	-0.466828	-19.825378	
1.00000	-0.362585	-5.420078	-0.475046
-0.001029	-0.901064	-38.684876	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216890	11.536874	0.179490
0.001550	0.444512	20.371869	
0.25000	0.216890	34.081769	0.179490
0.001550	0.226483	77.747327	
0.50000	0.216890	63.753393	0.179490
0.001550	0.064581	99.653358	
0.75000	0.216890	91.726630	0.179490
0.001550	0.613121	72.893888	
1.00000	0.216890	121.370343	0.179490
0.001550	0.702460	17.467658	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.235366	-120.294144	-0.277104
-0.001335	-0.694334	-84.054253	
0.25000	-0.235366	-90.874546	-0.277104
-0.001335	-0.350034	-33.322829	
0.50000	-0.235366	-62.978628	-0.277104
-0.001335	-0.044508	-32.779005	
0.75000	-0.235366	-33.364945	-0.277104
-0.001335	-0.234776	-33.026234	
1.00000	-0.235366	-11.043707	-0.277104
-0.001335	-0.452086	-84.511140	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.359965	13.547030	0.370535
0.001511	0.895696	17.819762	
0.25000	0.359965	26.973454	0.370535
0.001511	0.446265	56.820016	
0.50000	0.359965	57.996935	0.370535
0.001511	0.064129	78.503728	
0.75000	0.359965	91.726630	0.370535
0.001511	0.613121	54.353570	
1.00000	0.359965	121.233759	0.370535
0.001511	1.196674	14.036239	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.412697	-119.719600	-0.475046
-0.001240	-1.174802	-76.739044	
0.25000	-0.412697	-90.070491	-0.475046
-0.001240	-0.586029	-32.219177	
0.50000	-0.412697	-56.313692	-0.475046
-0.001240	-0.052314	-32.364477	
0.75000	-0.412697	-25.377219	-0.475046
-0.001240	-0.498772	-32.728615	
1.00000	-0.412697	-12.561051	-0.475046
-0.001240	-0.957976	-79.117610	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.359965	13.547030	0.370535
0.001550	0.895696	20.371869	
0.25000	0.359965	34.081769	0.370535
0.001550	0.446265	77.747327	
0.50000	0.359965	63.753393	0.370535
0.001550	0.064581	99.653358	
0.75000	0.359965	91.726630	0.370535
0.001550	0.613121	72.893888	
1.00000	0.359965	121.370343	0.370535
0.001550	1.196674	17.467658	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4297

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.412697	-120.294144	-0.475046
-0.001335	-1.174802	-84.054253	
0.25000	-0.412697	-90.874546	-0.475046
-0.001335	-0.586029	-33.322829	
0.50000	-0.412697	-62.978628	-0.475046
-0.001335	-0.057041	-32.790005	
0.75000	-0.412697	-33.364945	-0.475046
-0.001335	-0.498772	-33.026234	
1.00000	-0.412697	-12.561051	-0.475046
-0.001335	-0.957976	-84.511140	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.359965	13.547030	0.370535
0.001550	0.899696	20.371869	
0.25000	0.359965	34.081769	0.370535
0.001550	0.446265	77.747327	
0.50000	0.359965	63.753393	0.370535
0.001550	0.064581	99.653358	
0.75000	0.359965	91.726630	0.370535
0.001550	0.613121	72.893898	
1.00000	0.359965	121.370343	0.370535
0.001550	1.196674	17.467658	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.412697	-120.294144	-0.475046
-0.001335	-1.174802	-84.054253	
0.25000	-0.412697	-90.874546	-0.475046
-0.001335	-0.586029	-33.322829	
0.50000	-0.412697	-62.978628	-0.475046
-0.001335	-0.057041	-32.790005	
0.75000	-0.412697	-33.364945	-0.475046
-0.001335	-0.498772	-33.026234	
1.00000	-0.412697	-12.561051	-0.475046
-0.001335	-0.957976	-84.511140	

ELEM 416 ========== LENGTH = 4.972637

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139267	0.761181	0.088565
0.001213	0.222964	2.832616	
0.25000	0.139267	0.786234	0.088565
0.001213	0.112857	2.118658	
0.50000	0.139267	0.818811	0.088565
0.001213	0.003273	1.432366	
0.75000	0.139267	0.846273	0.088565
0.001213	0.099455	0.861544	
1.00000	0.139267	0.882603	0.088565
0.001213	0.201391	0.724622	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.152179	-0.203048	-0.081993
-8.59E-06	-0.206353	-3.709813	
0.25000	-0.152179	-0.171863	-0.081993
-8.59E-06	-0.105932	-3.746586	
0.50000	-0.152179	-0.141266	-0.081993
-8.59E-06	-0.008665	-3.830436	
0.75000	-0.152179	-0.109580	-0.081993
-8.59E-06	-0.107330	-3.916192	
1.00000	-0.152179	-0.087495	-0.081993
-8.59E-06	-0.217437	-4.063301	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.380847	7.991033	0.131946
0.001472	0.326497	17.495693	
0.25000	0.380847	31.340301	0.131946
0.001472	0.162421	74.274551	
0.50000	0.380847	61.701472	0.131946
0.001472	0.046490	93.777612	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4298

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.380847	87.296485	0.131946
0.001472	0.210595	67.864495	
1.00000	0.380847	121.156243	0.131946
0.001472	0.417237	16.704735	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.211704	-119.360816	-0.175116
-8.82E-05	-0.470603	-84.529465	
0.25000	-0.211704	-90.296458	-0.175116
-8.82E-05	-0.252917	-34.536595	
0.50000	-0.211704	-61.780114	-0.175116
-8.82E-05	-0.048618	-28.413489	
0.75000	-0.211704	-32.248833	-0.175116
-8.82E-05	-0.166273	-24.066675	
1.00000	-0.211704	-11.665427	-0.175116
-8.82E-05	-0.329640	-76.900798	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.332961	6.286528	0.164084
0.001305	0.400624	15.396189	
0.25000	0.332961	22.182569	0.164084
0.001305	0.196561	53.135393	
0.50000	0.332961	42.852272	0.164084
0.001305	0.035780	65.607895	
0.75000	0.332961	60.277203	0.164084
0.001305	0.277668	47.354676	
1.00000	0.332961	83.328723	0.164084
0.001305	0.559716	12.185633	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.208934	-81.292120	-0.232985
-0.000542	-0.610477	-61.370860	
0.25000	-0.208934	-61.505280	-0.232985
-0.000542	-0.366554	-27.365537	
0.50000	-0.208934	-42.091524	-0.232985
-0.000542	-0.042100	-23.227169	
0.75000	-0.208934	-21.986806	-0.232985
-0.000542	-0.212195	-20.298126	
1.00000	-0.208934	-7.973747	-0.232985
-0.000542	-0.415320	-56.297512	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.316895	5.491542	0.191501
0.001087	0.472583	13.673967	
0.25000	0.316895	18.681874	0.191501
0.001087	0.234436	44.668709	
0.50000	0.316895	35.833330	0.191501
0.001087	0.032040	54.771374	
0.75000	0.316895	50.292315	0.191501
0.001087	0.307191	39.598888	
1.00000	0.316895	69.420172	0.191501
0.001087	0.621196	10.468640	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.296352	-67.502827	-0.257669
-0.000900	-0.669770	-52.626255	
0.25000	-0.296352	-51.083960	-0.257669
-0.000900	-0.349457	-24.359440	
0.50000	-0.296352	-34.974673	-0.257669
-0.000900	-0.038903	-20.875997	
0.75000	-0.296352	-18.292035	-0.257669
-0.000900	-0.242330	-18.396236	
1.00000	-0.296352	-6.664177	-0.257669
-0.000900	-0.479677	-48.219052	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250417	6.295050	0.049675
5.43E-05	0.116118	13.133603	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4299

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.250417	25.836283	0.049675
5.43E-05	0.054327	61.095693	
0.50000	0.250417	51.245847	0.049675
5.43E-05	0.037396	77.848470	
0.75000	0.250417	72.666566	0.049675
5.43E-05	0.130436	56.503634	
1.00000	0.250417	101.004131	0.049675
5.43E-05	0.254031	13.854598	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.067338	-99.910648	-0.106812
-0.000263	-0.291215	-68.481125	
0.25000	-0.067338	-75.586400	-0.106812
-0.000263	-0.158438	-26.562445	
0.50000	-0.067338	-51.720790	-0.106812
-0.000263	-0.035322	-21.358768	
0.75000	-0.067338	-27.005769	-0.106812
-0.000263	-0.069106	-17.641953	
1.00000	-0.067338	-9.779314	-0.106812
-0.000263	-0.130917	-61.780413	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.224319	6.386611	0.105100
5.06E-05	0.250985	14.296092	
0.25000	0.224319	24.574989	0.105100
5.06E-05	0.120228	58.287170	
0.50000	0.224319	48.225430	0.105100
5.06E-05	0.037388	73.312916	
0.75000	0.224319	68.163176	0.105100
5.06E-05	0.228425	53.051775	
1.00000	0.224319	94.538910	0.105100
5.06E-05	0.455743	13.189499	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.169156	-92.947767	-0.189773
-0.000828	-0.601062	-66.223012	
0.25000	-0.169156	-70.307506	-0.189773
-0.000828	-0.265149	-27.394159	
0.50000	-0.169156	-48.094131	-0.189773
-0.000828	-0.039155	-22.539316	
0.75000	-0.169156	-25.090150	-0.189773
-0.000828	-0.140890	-19.068451	
1.00000	-0.169156	-9.056295	-0.189773
-0.000828	-0.271635	-60.140169	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.303497	5.522871	0.151952
0.000911	0.370811	13.921437	
0.25000	0.303497	18.397537	0.151952
0.000911	0.181838	44.065015	
0.50000	0.303497	35.138530	0.151952
0.000911	0.031421	53.942163	
0.75000	0.303497	49.251488	0.151952
0.000911	0.232289	39.137412	
1.00000	0.303497	67.921585	0.151952
0.000911	0.572534	10.654870	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.246509	-65.958662	-0.237592
-0.000751	-0.618423	-50.946565	
0.25000	-0.246509	-49.932725	-0.237592
-0.000751	-0.323087	-23.383435	
0.50000	-0.246509	-34.208960	-0.237592
-0.000751	-0.170744	-20.105660	
0.75000	-0.246509	-17.925563	-0.237592
-0.000751	-0.202538	-17.617382	
1.00000	-0.246509	-6.575979	-0.237592
-0.000751	-0.389217	-46.753797	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4300

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.310663	4.775138	0.186572
0.000759	0.460578	12.259047	
0.25000	0.310663	15.560395	0.186572
0.000759	0.228583	37.352010	
0.50000	0.310663	29.584520	0.186572
0.000759	0.028766	45.468895	
0.75000	0.310663	41.407109	0.186572
0.000759	0.313901	33.046510	
1.00000	0.310663	57.047266	0.186572
0.000759	0.635614	9.234548	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251360	-55.316033	-0.262909
-0.001042	-0.679759	-44.236079	
0.25000	-0.251360	-41.890889	-0.262909
-0.001042	-0.352946	-21.068619	
0.50000	-0.251360	-28.718908	-0.262909
-0.001042	-0.034656	-18.165631	
0.75000	-0.251360	-15.076118	-0.262909
-0.001042	-0.230765	-16.083312	
1.00000	-0.251360	-5.570440	-0.262909
-0.001042	-0.470862	-40.413942	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.100900	0.235393	0.094657
4.80E-07	0.239469	0.952812	
0.25000	0.100900	0.260446	0.094657
4.80E-07	0.121789	0.782292	
0.50000	0.100900	0.293022	0.094657
4.80E-07	0.003997	0.599317	
0.75000	0.100900	0.320485	0.094657
4.80E-07	0.120956	0.493659	
1.00000	0.100900	0.356815	0.094657
4.80E-07	0.246176	0.516637	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.110697	-0.254256	-0.100738
-0.000623	-0.254773	-2.457062	
0.25000	-0.110697	-0.223071	-0.100738
-0.000623	-0.129582	-2.261244	
0.50000	-0.110697	-0.192474	-0.100738
-0.000623	-0.005449	-2.113765	
0.75000	-0.110697	-0.160788	-0.100738
-0.000623	-0.113672	-1.969126	
1.00000	-0.110697	-0.138703	-0.100738
-0.000623	-0.231281	-1.887373	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.134252	0.890284	0.150765
2.49E-06	0.381380	2.736507	
0.25000	0.134252	1.641870	0.150765
2.49E-06	0.193918	3.847526	
0.50000	0.134252	2.619160	0.150765
2.49E-06	0.007666	3.917226	
0.75000	0.134252	3.443034	0.150765
2.49E-06	0.210544	2.923251	
1.00000	0.134252	4.539041	0.150765
2.49E-06	0.428977	1.420962	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.294582	-4.009067	-0.175995
-0.001169	-0.446754	-6.995733	
0.25000	-0.294582	-3.073519	-0.175995
-0.001169	-0.228007	-5.210752	
0.50000	-0.294582	-2.155611	-0.175995
-0.001169	-0.011362	-4.838616	
0.75000	-0.294582	-1.205033	-0.175995
-0.001169	-0.183065	-4.526210	
1.00000	-0.294582	-0.542477	-0.175995
-0.001169	-0.370509	-6.055660	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4301

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197331	1.546521	0.177724
3.67E-06	0.438796	5.375170	
0.25000	0.197331	2.741543	0.177724
3.67E-06	0.217773	7.063693	
0.50000	0.197331	4.295436	0.177724
3.67E-06	0.010948	7.047916	
0.75000	0.197331	5.605395	0.177724
3.67E-06	0.283923	5.151506	
1.00000	0.197331	7.338346	0.177724
3.67E-06	0.579326	2.379938	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.227138	-6.306895	-0.238121
-0.001395	-0.605662	-10.567291	
0.25000	-0.227138	-4.819374	-0.238121
-0.001395	-0.309678	-7.861581	
0.50000	-0.227138	-3.359900	-0.238121
-0.001395	-0.016962	-7.402160	
0.75000	-0.227138	-1.848482	-0.238121
-0.001395	-0.223920	-7.035515	
1.00000	-0.227138	-0.795018	-0.238121
-0.001395	-0.444945	-9.596238	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.360192	5.204846	0.189187
0.000500	0.465247	12.826685	
0.25000	0.360192	17.944227	0.189187
0.000500	0.230932	42.944325	
0.50000	0.360192	34.509308	0.189187
0.000500	0.032240	52.916892	
0.75000	0.360192	48.473969	0.189187
0.000500	0.252224	38.437419	
1.00000	0.360192	66.947882	0.189187
0.000500	0.650978	10.533793	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261075	-65.349688	-0.269158
-0.001155	-0.696702	-50.479962	
0.25000	-0.261075	-49.492150	-0.269158
-0.001155	-0.362177	-23.059197	
0.50000	-0.261075	-33.933608	-0.269158
-0.001155	-0.062525	-19.574709	
0.75000	-0.261075	-17.821316	-0.269158
-0.001155	-0.243319	-17.060932	
1.00000	-0.261075	-6.590992	-0.269158
-0.001155	-0.478645	-45.745805	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.181237	0.906337	0.194080
0.001284	0.477637	2.286524	
0.25000	0.181237	0.917454	0.194080
0.001284	0.236433	1.787921	
0.50000	0.181237	1.937408	0.194080
0.001284	0.005456	1.397332	
0.75000	0.181237	0.958638	0.194080
0.001284	0.189936	1.119137	
1.00000	0.181237	0.976334	0.194080
0.001284	0.386793	0.973072	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.439937	-0.169616	-0.158219
-6.91E-06	-0.399504	-5.258694	
0.25000	-0.439937	-0.150553	-0.158219
-6.91E-06	-0.202778	-5.707082	
0.50000	-0.439937	-0.129017	-0.158219
-6.91E-06	-0.016982	-6.275552	
0.75000	-0.439937	-0.109720	-0.158219
-6.91E-06	-0.246196	-6.949289	
1.00000	-0.439937	-0.102770	-0.158219
-6.91E-06	-0.487469	-7.770516	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4302

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.540861	8.885078	0.269387
0.001492	0.659994	14.077444	
0.25000	0.540861	26.582780	0.269387
0.001492	0.339174	54.302646	
0.50000	0.540861	58.349507	0.269387
0.001492	0.051222	74.697623	
0.75000	0.540861	92.147201	0.269387
0.001492	0.364154	49.554072	
1.00000	0.540861	120.320466	0.269387
0.001492	0.711832	14.628038	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.517176	-119.628637	-0.296359
-5.99E-05	-0.769294	-79.150668	
0.25000	-0.517176	-89.379376	-0.296359
-5.99E-05	-0.403065	-35.293653	
0.50000	-0.517176	-54.994903	-0.296359
-5.99E-05	-0.057971	-30.300886	
0.75000	-0.517176	-24.274041	-0.296359
-5.99E-05	-0.348825	-26.603805	
1.00000	-0.517176	-13.209290	-0.296359
-5.99E-05	-0.683180	-74.373374	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.514440	7.209708	0.350951
0.001345	0.857090	12.590349	
0.25000	0.514440	19.775965	0.350951
0.001345	0.430576	40.580109	
0.50000	0.514440	42.331938	0.350951
0.001345	0.042158	54.616140	
0.75000	0.514440	66.329999	0.350951
0.001345	0.476227	36.479436	
1.00000	0.514440	86.334433	0.350951
0.001345	0.948382	11.565655	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.510134	-85.008461	-0.391999
-0.000443	-1.006484	-61.377158	
0.25000	-0.510134	-63.458960	-0.391999
-0.000443	-0.521210	-30.630830	
0.50000	-0.510134	-39.115262	-0.391999
-0.000443	-0.058729	-27.581412	
0.75000	-0.510134	-17.301906	-0.391999
-0.000443	-0.453391	-25.555936	
1.00000	-0.510134	-9.445376	-0.391999
-0.000443	-0.889585	-60.203991	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.495846	6.291963	0.411151
0.001121	1.008957	11.266147	
0.25000	0.495846	16.722157	0.411151
0.001121	0.505704	34.290479	
0.50000	0.495846	35.443973	0.411151
0.001121	0.037872	45.772788	
0.75000	0.495846	55.362746	0.411151
0.001121	0.538806	30.680980	
1.00000	0.495846	71.966745	0.411151
0.001121	1.079378	10.042691	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.573905	-70.654773	-0.444982
-0.000814	-1.138054	-53.054888	
0.25000	-0.573905	-52.768344	-0.444982
-0.000814	-0.586590	-27.585169	
0.50000	-0.573905	-32.562686	-0.444982
-0.000814	-0.056955	-25.146759	
0.75000	-0.573905	-14.457254	-0.444982
-0.000814	-0.524848	-23.624632	
1.00000	-0.573905	-7.936209	-0.444982
-0.000814	-1.036256	-52.624899	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4303

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.392933	5.969482	0.083383
4.94E-05	0.200678	9.314677	
0.25000	0.392933	18.375260	0.083383
4.94E-05	0.106842	37.632839	
0.50000	0.392933	40.643895	0.083383
4.94E-05	0.033933	52.021948	
0.75000	0.392933	64.336249	0.083383
4.94E-05	0.186266	34.756303	
1.00000	0.392933	84.085849	0.083383
4.94E-05	0.357817	10.252062	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.095103	-83.932758	-0.149778
-0.000213	-0.392543	-53.401209	
0.25000	-0.095103	-62.657773	-0.149778
-0.000213	-0.208031	-22.435802	
0.50000	-0.095103	-38.624185	-0.149778
-0.000213	-0.033939	-18.684375	
0.75000	-0.095103	-17.088707	-0.149778
-0.000213	-0.113106	-15.795244	
1.00000	-0.095103	-9.332260	-0.149778
-0.000213	-0.216337	-48.958657	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.370092	6.248872	0.222717
4.72E-05	0.542170	10.443356	
0.25000	0.370092	18.088101	0.222717
4.72E-05	0.274472	37.107410	
0.50000	0.370092	39.339084	0.222717
4.72E-05	0.036468	50.550212	
0.75000	0.370092	61.948723	0.222717
4.72E-05	0.358375	33.650157	
1.00000	0.370092	80.795787	0.222717
4.72E-05	0.708686	10.301415	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.213958	-80.067334	-0.293361
-0.000731	-0.755960	-54.527572	
0.25000	-0.213958	-59.764503	-0.293361
-0.000731	-0.393315	-25.204535	
0.50000	-0.213958	-36.829315	-0.293361
-0.000731	-0.045235	-21.919539	
0.75000	-0.213958	-16.277984	-0.293361
-0.000731	-0.289534	-19.562953	
1.00000	-0.213958	-8.875999	-0.293361
-0.000731	-0.566287	-51.724481	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.501961	5.249192	0.325609
0.000923	0.794888	10.088668	
0.25000	0.501961	12.943023	0.325609
0.000923	0.395989	26.645520	
0.50000	0.501961	26.753169	0.325609
0.000923	0.030611	34.789706	
0.75000	0.501961	41.446250	0.325609
0.000923	0.469980	23.656880	
1.00000	0.501961	53.694187	0.325609
0.000923	0.943789	8.612496	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.400007	-52.274982	-0.388667
-0.000665	-0.992574	-41.922324	
0.25000	-0.400007	-39.081060	-0.388667
-0.000665	-0.510849	-23.293915	
0.50000	-0.400007	-24.176360	-0.388667
-0.000665	-0.049283	-21.708680	
0.75000	-0.400007	-10.820889	-0.388667

```
-0.000665   -0.422280   -20.823133
1.00000     -0.400007     -6.010642     -0.388667
-0.000665   -0.826154   -42.542551
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4304

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.521842      4.605006      0.393433
0.000769    0.968332      9.100573
0.25000     0.521842     11.066557      0.393433
 0.000769   0.481406     22.887457
0.50000     0.521842     22.664805      0.393433
 0.000769   0.028836     29.632749
0.75000     0.521842     35.004572      0.393433
 0.000769   0.547685     20.240158
1.00000     0.521842     45.290822      0.393433
 0.000769   1.103600      7.619653

COMB DL-G2-4 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.420137    -44.018294     -0.453552
-0.000969   -1.154867    -37.141622
0.25000    -0.420137    -32.937573     -0.453552
-0.000969   -0.592229    -21.477084
0.50000    -0.420137    -20.420079     -0.453552
-0.000969   -0.049047    -20.155096
0.75000    -0.420137     -9.203684     -0.453552
-0.000969   -0.502909    -19.450772
1.00000    -0.420137     -5.163868     -0.453552
-0.000969   -0.991469    -37.768512

COMB DL-G3-1 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.214767      0.293203      0.184854
3.00E-07    0.459932      0.993394
0.25000     0.214767      0.304319      0.184854
3.00E-07    0.229778      0.863369
0.50000     0.214767      0.324273      0.184854
3.00E-07    0.005105      0.761814
0.75000     0.214767      0.345503      0.184854
3.00E-07    0.247963      0.698197
1.00000     0.214767      0.363200      0.184854
3.00E-07    0.503907      0.712538

COMB DL-G3-1 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.137085     -0.307473     -0.205863
-0.000611   -0.520023     -3.062662
0.25000    -0.137085     -0.288409     -0.205863
-0.000611   -0.263962     -2.951347
0.50000    -0.137085     -0.266874     -0.205863
-0.000611   -0.011941     -2.903728
0.75000    -0.137085     -0.247577     -0.205863
-0.000611   -0.228320     -2.901546
1.00000    -0.137085     -0.240626     -0.205863
-0.000611   -0.458455     -2.975683

COMB DL-G3-2 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.261503      0.925960      0.321698
1.71E-06    0.798926      2.396124
0.25000     0.261503      1.292810      0.321698
1.71E-06    0.398650      2.759218
0.50000     0.261503      1.951291      0.321698
1.71E-06    0.009242      2.816237
0.75000     0.261503      2.651871      0.321698
1.71E-06    0.410235      2.185511
1.00000     0.261503      3.235865      0.321698
1.71E-06    0.834088      1.525738

COMB DL-G3-2 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.344617     -2.806460     -0.341245
-0.001181   -0.863337     -7.335942
0.25000    -0.344917     -2.177361     -0.341245
-0.001181   -0.439087     -6.448299
0.50000    -0.344917     -1.466690     -0.341245
-0.001181   -0.022802     -6.462009
0.75000    -0.344917     -0.829889     -0.341245
-0.001181   -0.594215     -6.642195
1.00000    -0.344917     -0.600531     -0.341245
-0.001181   -0.800203     -8.054563
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4305

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.394128      1.377113      0.367911
2.80E-06    0.905962      4.070030
0.25000     0.394128      1.387118      0.367911
2.80E-06    0.447944      3.209968
0.50000     0.394128      1.405076      0.367911
2.80E-06    0.011832      2.531255
0.75000     0.394128      1.424183      0.367911
2.80E-06    0.509415      2.246775
1.00000     0.394128      1.449110      0.367911
2.80E-06    1.037007      2.287145

COMB DL-G3-3 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.301488     -0.459707     -0.424145
-0.001307   -1.073865     -8.813658
0.25000    -0.301488     -0.442549     -0.424145
-0.001307   -0.546352     -9.105393
0.50000    -0.301488     -0.423167     -0.424145
-0.001307   -0.031820     -9.586028
0.75000    -0.301488     -0.405800     -0.424145
-0.001307   -0.463394    -10.249895
1.00000    -0.301488     -0.399545     -0.424145
-0.001307   -0.921329    -11.186958

COMB DL-G3-4 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.599240      4.712431      0.388755
0.000486    0.954896      9.142036
0.25000     0.599240     11.715919      0.388755
 0.000486   0.476965     24.272096
0.50000     0.599240     24.286923      0.388755
 0.000486   0.030103     31.732689
0.75000     0.599240     37.661639      0.388755
 0.000486   0.564617     21.660694
1.00000     0.599240     48.810606      0.388755
 0.000486   1.137141      8.027002

COMB DL-G3-4 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.378813    -47.767294     -0.466954
-0.001084   -1.189491    -38.666112
0.25000    -0.378813    -35.757222     -0.466954
-0.001084   -0.609687    -21.586246
0.50000    -0.378813    -22.189874     -0.466954
-0.001084   -0.048725    -19.946396
0.75000    -0.378813    -10.032749     -0.466954
-0.001084   -0.495491    -18.947719
1.00000     -0.378813     -5.654110     -0.466954
-0.001084   -0.979191    -38.526575

COMB DB ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.380847      7.991033      0.191501
0.001472    0.472583     17.495693
0.25000     0.380847     31.340301      0.191501
 0.001472   0.234436     74.274551
0.50000     0.380847     61.701472      0.191501
 0.001472   0.046490     93.777612
0.75000     0.380847     87.296485      0.191501
 0.001472   0.322424     67.864495
1.00000     0.380847    121.156243      0.191501
 0.001472   0.650978     16.704735

COMB DB ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.296352   -119.360816     -0.269158
-0.001395   -0.696702    -84.529465
0.25000    -0.296352    -90.296458     -0.269158
-0.001395   -0.362177    -34.536595
0.50000    -0.296352    -61.780114     -0.269158
-0.001395   -0.048618    -28.413489
0.75000    -0.296352    -32.248833     -0.269158
-0.001395   -0.243319    -24.066675
1.00000    -0.296352    -11.665427     -0.269158
-0.001395   -0.479677    -76.900798
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4306

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.599240      8.885078      0.411151
0.001492    1.008957     14.077444
0.25000     0.599240     26.582780      0.411151
 0.001492   0.505704     54.302646
0.50000     0.599240     58.349507      0.411151
 0.001492   0.051222     74.697623
0.75000     0.599240     92.147201      0.411151
 0.001492   0.564617     49.554072
1.00000     0.599240    120.320466      0.411151
 0.001492   1.137141     14.628038

COMB DL ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.573905   -119.628637     -0.466954
-0.001307   -1.189491    -79.150668
0.25000    -0.573905    -89.279376     -0.466954
-0.001307   -0.609687    -35.293653
0.50000    -0.573905    -54.994903     -0.466954
-0.001307   -0.058729    -30.300886
0.75000    -0.573905    -24.274041     -0.466954
-0.001307   -0.524848    -26.603805
1.00000    -0.573905    -13.209290     -0.466954
-0.001307   -1.036256    -74.373374

COMB CAR ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.599240      8.885078      0.411151
0.001492    1.008957     17.495693
0.25000     0.599240     31.340301      0.411151
 0.001492   0.505704     74.274551
0.50000     0.599240     61.701472      0.411151
 0.001492   0.051222     93.777612
0.75000     0.599240     92.147201      0.411151
 0.001492   0.564617     67.864495
1.00000     0.599240    121.156243      0.411151
 0.001492   1.137141     16.704735

COMB CAR ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.573905   -119.628637     -0.466954
-0.001395   -1.189491    -84.529465
0.25000    -0.573905    -90.296458     -0.466954
-0.001395   -0.609687    -35.293653
0.50000    -0.573905    -61.780114     -0.466954
-0.001395   -0.058729    -30.300886
0.75000    -0.573905    -32.248833     -0.466954
-0.001395   -0.152848    -26.603805
1.00000    -0.573905    -13.209290     -0.466954
-0.001395   -1.036256    -76.900798

COMB DESIGN ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.599240      8.885078      0.411151
0.001492    1.008957     17.495693
0.25000     0.599240     31.340301      0.411151
 0.001492   0.505704     74.274551
0.50000     0.599240     61.701472      0.411151
 0.001492   0.051222     93.777612
0.75000     0.599240     92.147201      0.411151
 0.001492   0.564617     67.864495
1.00000     0.599240    121.156243      0.411151
 0.001492   1.137141     16.704735

COMB DESIGN ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.573905   -119.628637     -0.466954
-0.001395   -1.189491    -84.529465
0.25000    -0.573905    -90.296458     -0.466954
-0.001395   -0.609687    -35.293653
0.50000    -0.573905    -61.780114     -0.466954
-0.001395   -0.058729    -30.300886
0.75000    -0.573905    -32.248833     -0.466954
-0.001395   -0.524848    -26.603805
1.00000    -0.573905    -13.209290     -0.466954
-0.001395   -1.036256    -76.900798
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4307

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      417 ================== LENGTH
=   3.481206

COMB DB-G1-1 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.168957      0.525983      0.189857
0.001045    0.318860      0.730522
0.25000     0.168957      0.550769      0.189857
0.001045    0.153632      0.806092
0.50000     0.168957      0.581545      0.189857
0.001045    0.002132      0.860071
0.75000     0.168957      0.606882      0.189857
0.001045    0.140824      0.895981
1.00000     0.168957      0.625601      0.189857
0.001045    0.281207      0.903959

COMB DB-G1-1 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.292621     -0.224015     -0.161335
-0.000547   -0.280444     -4.093629
0.25000    -0.292621     -0.205257     -0.161335
-0.000547   -0.140035     -4.026938
0.50000    -0.292621     -0.179889     -0.161335
-0.000547   -0.011735     -3.997233
0.75000    -0.292621     -0.149116     -0.161335
-0.000547   -0.176853     -3.967959
1.00000    -0.292621     -0.124672     -0.161335
-0.000547   -0.342070     -3.977221

COMB DB-G1-2 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.611214     18.673115      0.303689
 0.001283   0.508789     16.722938
0.25000     0.611214     41.773460      0.303689
 0.001283   0.244488     57.836709
0.50000     0.611214     70.457190      0.303689
 0.001283   0.043298     72.455104
0.75000     0.611214     94.070794      0.303689
 0.001283   0.271811     57.190681
1.00000     0.611214    111.517333      0.303689
 0.001283   0.517874     15.294476

COMB DB-G1-2 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.356122   -109.976072     -0.311140
-0.000717   -0.576285    -76.929050
0.25000    -0.356122    -92.493211     -0.311140
-0.000717   -0.305501    -43.173782
0.50000    -0.356122    -68.849971     -0.311140
-0.000717   -0.075264    -43.487144
0.75000    -0.356122    -40.169873     -0.311140
-0.000717   -0.298370    -43.805106
1.00000    -0.356122    -17.387536     -0.311140
-0.000717   -0.548543    -78.413581

COMB DB-G1-3 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.536711     13.423075      0.390242
 0.001124   0.654146     12.209342
0.25000     0.536711     29.149651      0.390242
 0.001124   0.314518     40.077656
0.50000     0.536711     48.677361      0.390242
 0.001124   0.031756     50.168775
0.75000     0.536711     64.753361      0.390242
 0.001124   0.354450     39.840123
1.00000     0.536711     76.630860      0.390242
 0.001124   0.697666     11.380960

COMB DB-G1-3 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.344003    -74.920128     -0.413700
-0.001060   -0.750009    -56.346409
0.25000    -0.344003    -63.017901     -0.413700
-0.001060   -0.389668    -35.429056
0.50000    -0.344003    -46.921726     -0.413700
-0.001060   -0.062695    -33.703047
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4308

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
        T         M2             M3
0.75000    -0.344003    -27.396488     -0.413700
-0.001060   -0.374455    -33.980684
1.00000    -0.344003    -11.886410     -0.413700
-0.001060   -0.704458    -57.599452

COMB DB-G1-4 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.497742     11.312848      0.431462
 0.001122   0.728985     10.473143
0.25000     0.497742     24.362560      0.431462
 0.001122   0.353483     33.619337
0.50000     0.497742     40.566405      0.431462
 0.001122   0.027496     42.027431
0.75000     0.497742     53.906064      0.431462
 0.001122   0.390889     33.491484
1.00000     0.497742     63.761861      0.431462
 0.001122   0.775600      9.911188

COMB DB-G1-4 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.499296    -62.387930     -0.458087
-0.001277   -0.839317    -48.275087
0.25000    -0.499296    -52.511614     -0.458087
-0.001277   -0.426648    -29.227557
0.50000    -0.499296    -39.155213     -0.458087
-0.001277   -0.056434    -29.429167
0.75000    -0.499296    -22.953420     -0.458087
-0.001277   -0.405582    -29.635822
1.00000    -0.499296    -10.083355     -0.458087
-0.001277   -0.773098    -49.212387

COMB DB-G2-1 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.470617     15.480384      0.128413
 0.000126   0.214421     13.864583
0.25000     0.470617     34.813291      0.128413
 0.000126   0.102666     48.006762
0.50000     0.470617     58.818987      0.128413
 0.000126   0.034950     60.153911
0.75000     0.470617     78.581446      0.128413
 0.000126   0.161754     49.373987
1.00000     0.470617     93.182627      0.128413
 0.000126   0.299628     12.255131

COMB DB-G2-1 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.079939    -92.016583     -0.185635
-0.000255   -0.355821    -61.784047
0.25000    -0.079939    -77.385004     -0.185635
-0.000255   -0.194268    -33.593983
0.50000    -0.079939    -57.597743     -0.185635
-0.000255   -0.035549    -33.919235
0.75000    -0.079939    -33.595086     -0.185635
-0.000255   -0.132756    -34.249854
1.00000    -0.079939    -14.528324     -0.185635
-0.000255   -0.232719    -63.279513

COMB DB-G2-2 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.435059     14.698104      0.258233
 0.000104   0.433077     13.199761
0.25000     0.435059     32.692579      0.258233
 0.000104   0.206335     45.098403
0.50000     0.435059     55.036342      0.258233
 0.000104   0.034217     56.594843
0.75000     0.435059     73.430630      0.258233
 0.000104   0.280784     44.725602
1.00000     0.435059     87.020960      0.258233
 0.000104   0.550859     12.110523

COMB DB-G2-2 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.260451     -85.825479     -0.332448
-0.000740   -0.615040     -60.166091
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4309

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
        T         M2             M3
0.25000    -0.260451     -72.206855     -0.332448
-0.000740   -0.325710     -33.938332
0.50000    -0.260451     -53.789482     -0.332448
-0.000740   -0.059487     -34.250696
0.75000    -0.260451     -31.448547     -0.332448
-0.000740   -0.252221     -34.566573
1.00000    -0.260451     -13.701791     -0.332448
-0.000740   -0.465984     -61.589932

COMB DB-G2-3 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.556682     11.431994      0.370626
 0.000871   0.621323     10.673228
0.25000     0.556682     24.169405      0.370626
 0.000871   0.298786     32.720359
0.50000     0.556682     39.985466      0.370626
 0.000871   0.026517     40.912899
0.75000     0.556682     53.005886      0.370626
 0.000871   0.344793     32.571053
1.00000     0.556682     62.625817      0.370626
 0.000871   0.691371      9.544782

COMB DB-G2-3 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.352472     -60.885069     -0.413916
-0.001091   -0.755672     -46.802183
0.25000    -0.352472     -51.245109     -0.413916
-0.001091   -0.395434     -28.292997
0.50000    -0.352472     -38.208349     -0.413916
-0.001091   -0.054236     -28.573609
0.75000    -0.352472     -22.394591     -0.413916
-0.001091   -0.354216     -28.860865
1.00000    -0.352472      -9.832227     -0.413916
-0.001091   -0.668997     -48.054512

COMB DB-G2-4 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.529525      9.682494      0.422611
0.000962    0.717070      9.233245
0.25000     0.529525     20.352772      0.422611
 0.000962   0.349288     27.749129
0.50000     0.529525     33.602070      0.422611
 0.000962   0.023308     34.645562
0.75000     0.529525     44.509426      0.422611
 0.000962   0.386498     27.691090
1.00000     0.529525     52.568155      0.422611
 0.000962   0.776986      8.435379

COMB DB-G2-4 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.351492     -51.082180     -0.461824
-0.001269   -0.835840     -40.468303
0.25000    -0.351492     -43.006674     -0.461824
-0.001269   -0.433910     -24.930574
0.50000    -0.351492     -32.085628     -0.461824
-0.001269   -0.049025     -25.135004
0.75000    -0.351492     -18.838008     -0.461824
-0.001269   -0.392916     -25.347527
1.00000    -0.351492      -8.314622     -0.461824
-0.001269   -0.754201     -41.399675

COMB DB-G3-1 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.122578      0.224668      0.180769
0.000398    0.315862      0.490206
0.25000     0.122578      0.249453      0.180769
0.000398    0.158530      0.581009
0.50000     0.122578      0.280230      0.180769
0.000398    0.001746      0.648302
0.75000     0.122578      0.305566      0.180769
0.000398    0.155249      0.683767
1.00000     0.122578      0.324286      0.180769
0.000398    0.310960      0.693270
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4310

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.102004     -0.249652     -0.182393
-0.000546   -0.321000     -1.907727
0.25000    -0.102004     -0.230894     -0.182393
-0.000546   -0.162263     -1.826130
0.50000    -0.102004     -0.205526     -0.182393
-0.000546   -0.003545     -1.784205
0.75000    -0.102004     -0.174753     -0.182393
-0.000546   -0.156132     -1.744636
1.00000    -0.102004     -0.150309     -0.182393
-0.000546   -0.313459     -1.744513

COMB DB-G3-2 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.180090      1.068119      0.300419
0.000527    0.519374      1.383582
0.25000     0.180090      1.811692      0.300419
0.000527    0.257920      2.780161
0.50000     0.180090      2.734988      0.300419
0.000527    0.004347      3.343528
0.75000     0.180090      3.495082      0.300419
0.000527    0.266984      2.941768
1.00000     0.180090      4.056666      0.300419
0.000527    0.540853      1.682949

COMB DB-G3-2 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.416293     -4.052925     -0.315598
-0.001028   -0.558163     -6.094105
0.25000    -0.416293     -3.490172     -0.315598
-0.001028   -0.283497     -4.939203
0.50000    -0.416293     -2.729124     -0.315598
-0.001028   -0.013074     -4.887971
0.75000    -0.416293     -1.805945     -0.315598
-0.001028   -0.265441     -4.841775
1.00000    -0.416293     -1.072608     -0.315598
-0.001028   -0.526450     -5.903163

COMB DB-G3-3 ---------- MAX

REL DIST          P             V2             V3
        T         M2             M3
0.00000     0.309129      1.970868      0.381365
0.000464    0.653162      2.357524
0.25000     0.309129      3.153150      0.381365
0.000464    0.321258      4.269464
0.50000     0.309129      4.621190      0.381365
0.000464    0.006315      5.143353
0.75000     0.309129      5.829741      0.381365
0.000464    0.358148      4.482707
1.00000     0.309129      6.722659      0.381365
0.000464    0.727722      2.459303

COMB DB-G3-3 ---------- MIN

REL DIST          P             V2             V3
        T         M2             M3
0.00000    -0.286184     -5.979100     -0.426104
-0.001235   -0.756197     -9.648304
0.25000    -0.286184     -5.084322     -0.426104
-0.001235   -0.385358     -7.947932
0.50000    -0.286184     -3.874255     -0.426104
-0.001235   -0.020381     -7.999352
0.75000    -0.286184     -2.406401     -0.426104
```

-0.001235 -0.343266 -8.056034
1.00000 -0.286184 -1.240395 -0.426104
-0.001235 -0.674454 -9.872354

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.618296	11.088379	0.422055
0.000811	0.718504	10.521838	
0.25000	0.618296	23.691947	0.422055
0.000811	0.351195	32.547220	
0.50000	0.618296	39.341815	0.422055
0.000811	0.026530	40.543824	
0.75000	0.618296	52.225418	0.422055
0.000811	0.400559	32.303526	
1.00000	0.618296	61.744264	0.422055
0.000811	0.801242	9.532990	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4311

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.321344	-60.303132	-0.475904
-0.001268	-0.861487	-45.795601	
0.25000	-0.321344	-50.764468	-0.475904
-0.001268	-0.447307	-27.428063	
0.50000	-0.321344	-37.864695	-0.475904
-0.001268	-0.052164	-27.656320	
0.75000	-0.321344	-22.216810	-0.475904
-0.001268	-0.391198	-27.891065	
1.00000	-0.321344	-9.786747	-0.475904
-0.001268	-0.750829	-46.838075	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.221367	0.561142	0.424287
0.001136	0.722444	0.997293	
0.25000	0.221367	0.566121	0.424287
0.001136	0.353241	1.011397	
0.50000	0.221367	0.584387	0.424287
0.001136	0.002456	1.054099	
0.75000	0.221367	0.603817	0.424287
0.001136	0.250294	1.121442	
1.00000	0.221367	0.621097	0.424287
0.001136	0.507433	1.190591	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.721969	-0.279128	-0.295473
-0.000532	-0.520252	-7.810364	
0.25000	-0.721969	-0.261858	-0.295473
-0.000532	-0.263222	-7.975033	
0.50000	-0.721969	-0.242438	-0.295473
-0.000532	-0.022811	-8.194944	
0.75000	-0.721969	-0.224196	-0.295473
-0.000532	-0.385401	-8.451763	
1.00000	-0.721969	-0.219277	-0.295473
-0.000532	-0.754613	-8.736560	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.844132	21.644575	0.605803
0.001296	1.023454	14.660068	
0.25000	0.844132	29.570796	0.605803
0.001296	0.500991	39.825877	
0.50000	0.844132	58.650035	0.605803
0.001296	0.043125	54.495173	
0.75000	0.844132	89.581981	0.605803
0.001296	0.464496	39.423665	
1.00000	0.844132	117.092028	0.605803
0.001296	0.911968	13.936852	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.789493	-115.486607	-0.541305
-0.000673	-0.961483	-74.399081	
0.25000	-0.789493	-87.992221	-0.541305
-0.000673	-0.514928	-46.491205	
0.50000	-0.789493	-57.076055	-0.541305
-0.000673	-0.079082	-47.320925	
0.75000	-0.789493	-28.034324	-0.541305
-0.000673	-0.457154	-48.363468	
1.00000	-0.789493	-20.203987	-0.541305
-0.000673	-1.097403	-78.276996	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.822149	16.184817	0.791308
0.001144	1.341257	11.581973	
0.25000	0.822149	21.812832	0.791308
0.001144	0.655718	29.279314	
0.50000	0.822149	42.460553	0.791308
0.001144	0.033179	39.754231	
0.75000	0.822149	64.423789	0.791308
0.001144	0.608524	29.126422	
1.00000	0.822149	83.957304	0.791308
0.001144	1.213881	11.107418	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4312

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.757439	-82.122832	-0.715423
-0.000967	-1.283694	-60.213776	
0.25000	-0.757439	-62.600437	-0.715423
-0.000967	-0.764760	-40.821937	
0.50000	-0.757439	-40.648405	-0.715423
-0.000967	-0.077672	-41.877282	
0.75000	-0.757439	-20.027316	-0.715423
-0.000967	-0.737600	-43.132148	
1.00000	-0.757439	-14.467384	-0.715423
-0.000967	-1.421005	-64.911458	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.768809	13.644663	0.908802
0.001104	1.547877	10.035491	
0.25000	0.768809	18.316005	0.908802
0.001104	0.759290	24.754382	
0.50000	0.768809	35.453943	0.908802
0.001104	0.028822	33.487342	
0.75000	0.768809	53.683778	0.908802
0.001104	0.692707	24.716369	
1.00000	0.768809	69.896907	0.908802
0.001104	1.387066	9.831988	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.853559	-68.387685	-0.814244
-0.001175	-1.453478	-52.618365	
0.25000	-0.853559	-52.183786	-0.814244
-0.001175	-0.747924	-36.546130	
0.50000	-0.853559	-33.963250	-0.814244
-0.001175	-0.073000	-37.474407	
0.75000	-0.853559	-16.847418	-0.814244
-0.001175	-0.834937	-38.575747	
1.00000	-0.853559	-12.232586	-0.814244
-0.001175	-1.621618	-56.731502	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.707156	15.326675	0.199279
0.000126	0.332815	10.254125	
0.25000	0.707156	20.882996	0.199279
0.000126	0.162670	27.752371	
0.50000	0.707156	41.267689	0.199279
0.000126	0.029581	37.821684	
0.75000	0.707156	62.951138	0.199279
0.000126	0.230820	27.218757	
1.00000	0.707156	82.235819	0.199279
0.000126	0.448756	9.333209	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112728	-80.934009	-0.269552
-0.000204	-0.496592	-48.938388	
0.25000	-0.112728	-61.660307	-0.269552
-0.000204	-0.265331	-29.451715	
0.50000	-0.112728	-39.987919	-0.269552
-0.000204	-0.045474	-30.105683	
0.75000	-0.112728	-19.629520	-0.269552
-0.000204	-0.201095	-30.948358	
1.00000	-0.112728	-14.140414	-0.269552
-0.000204	-0.368991	-52.013832	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.673043	14.966213	0.506318
8.83E-05	0.857969	10.285793	
0.25000	0.673043	20.268615	0.506318
8.83E-05	0.420085	27.026925	
0.50000	0.673043	39.721750	0.506318
8.83E-05	0.029901	36.844463	
0.75000	0.673043	60.414289	0.506318
8.83E-05	0.451764	26.800342	
1.00000	0.673043	78.817681	0.506318
8.83E-05	0.897552	9.812849	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4313

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.300244	-77.414676	-0.530995
-0.000638	-0.959034	-51.691591	
0.25000	-0.300244	-59.021761	-0.530995
-0.000638	-0.500419	-33.262634	
0.50000	-0.300244	-38.339778	-0.530995
-0.000638	-0.058479	-34.113093	
0.75000	-0.300244	-18.911735	-0.530995
-0.000638	-0.475556	-35.126533	
1.00000	-0.300244	-13.673476	-0.530995
-0.000638	-0.911156	-55.490456	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.846827	10.980353	0.737806
0.000862	1.251894	8.616112	
0.25000	0.846827	14.426167	0.737806
0.000862	0.611594	19.068927	
0.50000	0.846827	27.067965	0.737806
0.000862	0.022772	25.184673	
0.75000	0.846827	40.515201	0.737806
0.000862	0.597627	18.721508	
1.00000	0.846827	52.474813	0.737806
0.000862	1.202969	7.794443	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.548038	-50.541730	-0.707864
-0.000994	-1.265912	-42.543423	
0.25000	-0.548038	-38.588926	-0.707864
-0.000994	-0.652408	-31.004073	
0.50000	-0.548038	-25.148550	-0.707864
-0.000994	-0.063637	-32.047246	
0.75000	-0.548038	-12.523058	-0.707864
-0.000994	-0.681625	-33.301774	
1.00000	-0.548038	-9.118928	-0.707864
-0.000994	-1.320487	-47.196519	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.832613	9.365564	0.868941
0.000929	1.483188	7.597688	
0.25000	0.832613	12.259481	0.868941
0.000929	0.728226	16.427108	
0.50000	0.832613	22.876508	0.868941
0.000929	0.020350	21.619676	
0.75000	0.832613	34.169972	0.868941
0.000929	0.704350	16.238156	
1.00000	0.832613	44.214076	0.868941
0.000929	1.418461	7.103453	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.548143	-42.572008	-0.830895
-0.001170	-1.478165	-37.747527	
0.25000	-0.548143	-32.533621	-0.830895
-0.001170	-0.757184	-28.122739	
0.50000	-0.548143	-21.245919	-0.830895
-0.001170	-0.060123	-29.063269	
0.75000	-0.548143	-10.642586	-0.830895
-0.001170	-0.790812	-30.181396	
1.00000	-0.548143	-7.783677	-0.830895
-0.001170	-1.544550	-41.912495	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.287491	0.296340	0.383866
0.000371	0.664964	0.677682	
0.25000	0.287491	0.301319	0.383866
0.000371	0.330576	0.730138	
0.50000	0.287491	0.319584	0.383866
0.000371	0.002041	0.790885	
0.75000	0.287491	0.339014	0.383866
0.000371	0.330034	0.842442	
1.00000	0.287491	0.356294	0.383866
0.000371	0.664965	0.897141	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4314

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.120959	-0.268313	-0.384781
-0.000527	-0.674464	-2.942864	
0.25000	-0.120959	-0.251042	-0.384781
-0.000527	-0.339599	-3.027581	
0.50000	-0.120959	-0.231623	-0.384781
-0.000527	-0.009042	-3.144424	
0.75000	-0.120959	-0.213380	-0.384781
-0.000527	-0.336281	-3.272150	
1.00000	-0.120959	-0.208462	-0.384781
-0.000527	-0.670600	-3.427126	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.350275	1.045011	0.677818
0.000478	1.169417	1.472749	
0.25000	0.350275	1.209311	0.677818
0.000478	0.579028	2.046867	
0.50000	0.350275	1.812084	0.677818
0.000478	0.004388	2.457163	
0.75000	0.350275	2.453261	0.677818
0.000478	0.539619	2.272994	
1.00000	0.350275	3.023507	0.677818
0.000478	1.089314	1.927223	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.448806	-2.929672	-0.632148
-0.000995	-1.111730	-8.012371	
0.25000	-0.448806	-2.359750	-0.632148
-0.000995	-0.561667	-7.545614	
0.50000	-0.448806	-1.718900	-0.632148
-0.000995	-0.021835	-7.751093	
0.75000	-0.448806	-1.116905	-0.632148
-0.000995	-0.598670	-7.984840	
1.00000	-0.448806	-0.954592	-0.632148
-0.000995	-1.189158	-8.862852	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.618124	1.414626	0.794843
0.000423	1.365090	2.234051	
0.25000	0.618124	1.419007	0.794843
0.000423	0.672576	2.023090	
0.50000	0.618124	1.435446	0.794843
0.000423	0.005211	1.999587	
0.75000	0.618124	1.452933	0.794843
0.000423	0.664049	2.145078	
1.00000	0.618124	1.468485	0.794843
0.000423	1.344368	2.342656	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.361077	-0.571099	-0.782111
-0.001134	-1.379264	-11.131126	
0.25000	-0.361077	-0.555555	-0.782111
-0.001134	-0.698938	-11.672243	
0.50000	-0.361077	-0.538078	-0.782111
-0.001134	-0.033168	-12.327240	
0.75000	-0.361077	-0.521660	-0.782111
-0.001134	-0.707350	-13.077598	
1.00000	-0.361077	-0.517233	-0.782111
-0.001134	-1.399705	-13.908676	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.968152	10.011681	0.853506
0.000790	1.459001	7.994939	
0.25000	0.968152	13.148313	0.853506
0.000790	0.717447	17.597638	
0.50000	0.968152	24.655801	0.853506
0.000790	0.021638	23.181680	
0.75000	0.968152	36.896458	0.853506
0.000790	0.730194	17.329339	
1.00000	0.968152	47.782972	0.853506
0.000790	1.467959	7.428598	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4315

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.454479	-46.146855	-0.858828
-0.001184	-1.526253	-38.488386	
0.25000	-0.454479	-35.266339	-0.858828
-0.001184	-0.781059	-27.979377	
0.50000	-0.454479	-23.031927	-0.858828
-0.001184	-0.057686	-28.925280	
0.75000	-0.454479	-11.539282	-0.858828
-0.001184	-0.775076	-30.079341	
1.00000	-0.454479	-8.440593	-0.858828
-0.001184	-1.515205	-42.681562	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.618296	18.673115	0.431462
0.001283	0.728985	16.722938	
0.25000	0.618296	41.773460	0.431462
0.001283	0.353483	57.836709	
0.50000	0.618296	70.457190	0.431462
0.001283	0.043298	72.455104	
0.75000	0.618296	94.070794	0.431462
0.001283	0.400559	57.190681	
1.00000	0.618296	111.517333	0.431462
0.001283	0.801242	15.294476	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.499296	-109.976072	-0.475904
-0.001277	-0.861487	-76.929050	
0.25000	-0.499296	-92.493211	-0.475904
-0.001277	-0.447307	-43.173782	
0.50000	-0.499296	-68.849971	-0.475904
-0.001277	-0.075264	-43.487144	
0.75000	-0.499296	-40.169873	-0.475904
-0.001277	-0.405582	-43.805106	
1.00000	-0.499296	-17.387536	-0.475904
-0.001277	-0.773098	-78.413581	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.968152	21.644575	0.908802
0.001296	1.547877	14.660068	
0.25000	0.968152	29.570796	0.908802
0.001296	0.759290	39.825877	
0.50000	0.968152	58.650035	0.908802
0.001296	0.043125	54.495173	
0.75000	0.968152	89.581981	0.908802
0.001296	0.730194	39.423665	
1.00000	0.968152	117.092028	0.908802
0.001296	1.467959	13.936852	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.853559	-115.486607	-0.858828
-0.001184	-1.526253	-74.399081	
0.25000	-0.853559	-87.992221	-0.858828
-0.001184	-0.781059	-46.491205	
0.50000	-0.853559	-57.076055	-0.858828
-0.001184	-0.079082	-47.320925	
0.75000	-0.853559	-28.034324	-0.858828
-0.001184	-0.834937	-48.363468	
1.00000	-0.853559	-20.203987	-0.858828
-0.001184	-1.621618	-78.276996	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.968152	21.644575	0.908802
0.001296	1.547877	16.722938	
0.25000	0.968152	41.773460	0.908802
0.001296	0.759290	57.836709	
0.50000	0.968152	70.457190	0.908802
0.001296	0.043298	72.455104	
0.75000	0.968152	94.070794	0.908802
0.001296	0.730194	57.190681	
1.00000	0.968152	117.092028	0.908802
0.001296	1.467959	15.294476	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4316

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.853559	-115.486607	-0.858828
-0.001277	-1.526253	-76.929050	
0.25000	-0.853559	-92.493211	-0.858828
-0.001277	-0.781059	-46.491205	
0.50000	-0.853559	-68.849971	-0.858828
-0.001277	-0.079082	-47.320925	
0.75000	-0.853559	-40.169873	-0.858828
-0.001277	-0.834937	-48.363468	
1.00000	-0.853559	-20.203987	-0.858828
-0.001277	-1.621618	-78.413581	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.968152	21.644575	0.908802
0.001296	1.547877	16.722938	
0.25000	0.968152	41.773460	0.908802
0.001296	0.759290	57.836709	
0.50000	0.968152	70.457190	0.908802
0.001296	0.043298	72.455104	
0.75000	0.968152	94.070794	0.908802
0.001296	0.730194	57.190681	
1.00000	0.968152	117.092028	0.908802
0.001296	1.467959	15.294476	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.853559	-115.486607	-0.858828
-0.001277	-1.526253	-76.929050	
0.25000	-0.853559	-92.493211	-0.858828
-0.001277	-0.781059	-46.491205	
0.50000	-0.853559	-68.849971	-0.858828
-0.001277	-0.079082	-47.320925	
0.75000	-0.853559	-40.169873	-0.858828
-0.001277	-0.834937	-48.363468	
1.00000	-0.853559	-20.203987	-0.858828
-0.001277	-1.621618	-78.413581	

ELEM 418 ========== LENGTH = 4.972694

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.158988	0.143211	0.115599
0.000456	0.274149	0.913314	
0.25000	0.158988	0.165338	0.115599
0.000456	0.130426	0.948452	
0.50000	0.158988	0.197049	0.115599
0.000456	0.003684	0.956779	
0.75000	0.158988	0.227672	0.115599
0.000456	0.106375	0.931613	
1.00000	0.158988	0.258781	0.115599
0.000456	0.209371	1.003416	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.295724	-0.759593	-0.082868
-0.001113	-0.202752	-4.013654	
0.25000	-0.295724	-0.723308	-0.082868
-0.001113	-0.099716	-3.481464	
0.50000	-0.295724	-0.695832	-0.082868
-0.001113	-0.013042	-3.246647	
0.75000	-0.295724	-0.663228	-0.082868
-0.001113	-0.156991	-3.359754	
1.00000	-0.295724	-0.638121	-0.082868
-0.001113	-0.300700	-3.521103	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.592802	11.446156	0.189861
0.000611	0.438159	15.308883	
0.25000	0.592802	32.067930	0.189861
0.000611	0.207886	66.500213	
0.50000	0.592802	61.622949	0.189861
0.000611	0.045043	91.982033	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4317

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.592802	90.163477	0.189861
0.000611	0.203730	71.642804	
1.00000	0.592802	119.156663	0.189861
0.000611	0.378006	14.455291	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.345520	-121.249188	-0.149045
-0.001388	-0.385450	-78.457331	
0.25000	-0.345520	-87.431211	-0.149045
-0.001388	-0.200141	-24.452844	
0.50000	-0.345520	-61.823958	-0.149045
-0.001388	-0.055274	-28.543598	
0.75000	-0.345520	-31.437179	-0.149045
-0.001388	-0.281839	-34.753471	
1.00000	-0.345520	-8.036976	-0.149045
-0.001388	-0.517868	-84.768671	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.515108	7.800125	0.240795
0.000982	0.562646	11.383173	
0.25000	0.515108	21.839305	0.240795
0.000982	0.267199	46.224490	
0.50000	0.515108	41.960185	0.240795
0.000982	0.032800	63.549653	
0.75000	0.515108	61.390405	0.240795
0.000982	0.243627	49.622243	
1.00000	0.515108	81.128791	0.240795
0.000982	0.472136	11.297756	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.333264	-83.331183	-0.189798
-0.001220	-0.486846	-57.666064	
0.25000	-0.333264	-60.308107	-0.189798
-0.001220	-0.250870	-20.312189	
0.50000	-0.333264	-42.874844	-0.189798
-0.001220	-0.050372	-22.810229	
0.75000	-0.333264	-22.187707	-0.189798
-0.001220	-0.343511	-27.025490	
1.00000	-0.333264	-6.256989	-0.189798
-0.001220	-0.642858	-61.063751	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.473483	6.618955	0.258028
0.001230	0.606649	9.898539	
0.25000	0.473483	18.268487	0.258028
0.001230	0.290004	38.812015	
0.50000	0.473483	34.964536	0.258028
0.001230	0.028243	53.190813	
0.75000	0.473483	51.087485	0.258028
0.001230	0.262729	41.636630	
1.00000	0.473483	67.466146	0.258028
0.001230	0.513244	9.851990	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.485865	-69.357492	-0.206478
-0.001128	-0.528117	-49.285492	
0.25000	-0.485865	-50.253238	-0.206478
-0.001128	-0.271569	-18.079340	
0.50000	-0.485865	-35.787338	-0.206478
-0.001128	-0.046849	-20.098860	
0.75000	-0.485865	-18.621417	-0.206478
-0.001128	-0.362418	-23.653850	
1.00000	-0.485865	-5.402310	-0.206478
-0.001128	-0.683183	-51.970007	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.462029	9.546147	0.082203
0.000251	0.184646	12.255522	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.462029	26.804713	0.082203
0.000251	0.087264	55.114265	
0.50000	0.462029	51.539601	0.082203
0.000251	0.034800	76.439038	
0.75000	0.462029	75.425451	0.082203
0.000251	0.107780	59.552812	
1.00000	0.462029	99.690134	0.082203
0.000251	0.196948	11.696511	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.075784	-101.195337	-0.079154
-7.83E-05	-0.215340	-63.292898	
0.25000	-0.075784	-72.892738	-0.079154
-7.83E-05	-0.116938	-18.340794	
0.50000	-0.075784	-51.461776	-0.079154
-7.83E-05	-0.037831	-21.893214	
0.75000	-0.075784	-26.030781	-0.079154
-7.83E-05	-0.131896	-26.965664	
1.00000	-0.075784	-6.446919	-0.079154
-7.83E-05	-0.234088	-68.703510	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.420004	8.954438	0.160375
0.000760	0.371652	12.096908	
0.25000	0.420004	25.018180	0.160375
0.000760	0.176762	51.987227	
0.50000	0.420004	48.040653	0.160375
0.000760	0.033523	71.834435	
0.75000	0.420004	70.272867	0.160375
0.000760	0.177491	55.920665	
1.00000	0.420004	92.857687	0.160375
0.000760	0.343008	11.558863	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.253542	-94.585259	-0.140007
-7.20E-05	-0.370569	-61.629745	
0.25000	-0.253542	-68.242071	-0.140007
-7.20E-05	-0.196504	-19.417279	
0.50000	-0.253542	-48.294791	-0.140007
-7.20E-05	-0.043950	-22.564954	
0.75000	-0.253542	-24.624403	-0.140007
-7.20E-05	-0.235775	-27.317384	
1.00000	-0.253542	-6.396347	-0.140007
-7.20E-05	-0.435139	-66.196439	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.557477	6.424324	0.228037
0.001050	0.534110	9.537130	
0.25000	0.557477	17.795064	0.228037
0.001050	0.253793	37.757643	
0.50000	0.557477	34.091550	0.228037
0.001050	0.026866	51.791295	
0.75000	0.557477	49.828650	0.228037
0.001050	0.222521	40.623008	
1.00000	0.557477	65.815343	0.228037
0.001050	0.435899	10.112821	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.335833	-67.942310	-0.176470
-0.000846	-0.453943	-48.118371	
0.25000	-0.335833	-49.295252	-0.176470
-0.000846	-0.234725	-17.620721	
0.50000	-0.335833	-35.175544	-0.176470
-0.000846	-0.044572	-19.539145	
0.75000	-0.335833	-18.420431	-0.176470
-0.000846	-0.322956	-22.902220	
1.00000	-0.335833	-5.517679	-0.176470
-0.000846	-0.606443	-50.425601	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.522569	5.462777	0.245407
0.001278	0.582312	8.412769	
0.25000	0.522569	14.988177	0.245407
0.001278	0.279886	32.057713	
0.50000	0.522569	28.639933	0.245407
0.001278	0.023610	43.818155	
0.75000	0.522569	41.823084	0.245407
0.001278	0.250647	34.466108	
1.00000	0.522569	55.215323	0.245407
0.001278	0.492206	8.897434	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.335413	-57.064253	-0.198332
-0.000908	-0.506328	-41.468775	
0.25000	-0.335413	-41.443396	-0.198332
-0.000908	-0.260727	-15.741796	
0.50000	-0.335413	-29.615153	-0.198332
-0.000908	-0.041607	-17.306555	
0.75000	-0.335413	-15.579200	-0.198332
-0.000908	-0.340353	-20.196669	
1.00000	-0.335413	-4.770415	-0.198332
-0.000908	-0.643520	-43.330619	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.108663	0.151135	0.089585
0.000604	0.221312	0.667435	
0.25000	0.108663	0.173262	0.089585
0.000604	0.109932	0.727312	
0.50000	0.108663	0.204973	0.089585
0.000604	0.001857	0.762177	
0.75000	0.108663	0.235596	0.089585
0.000604	0.103786	0.748074	
1.00000	0.108663	0.266705	0.089585
0.000604	0.205771	0.695150	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093453	-0.373247	-0.082038
-0.000331	0.202201	-1.767454	
0.25000	-0.093453	-0.336961	-0.082038
-0.000331	-0.102276	-1.438352	
0.50000	-0.093453	-0.309486	-0.082038
-0.000331	-0.006311	-1.386953	
0.75000	-0.093453	-0.276882	-0.082038
-0.000331	-0.112795	-1.503364	
1.00000	-0.093453	-0.251774	-0.082038
-0.000331	-0.224181	-1.673065	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.160526	0.725093	0.158914
0.001089	0.387769	1.642775	
0.25000	0.160526	1.388884	0.158914
0.001089	0.190390	3.300058	
0.50000	0.160526	2.340226	0.158914
0.001089	0.004079	4.129106	
0.75000	0.160526	3.258912	0.158914
0.001089	0.170817	3.480756	
1.00000	0.160526	4.192169	0.158914
0.001089	0.341808	1.627854	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.404142	-4.419268	-0.137816
-0.000377	-0.344755	-5.947913	
0.25000	-0.404142	-3.330707	-0.137816
-0.000377	-0.175896	-3.689022	
0.50000	-0.404142	-2.506439	-0.137816
-0.000377	-0.014016	-3.681934	
0.75000	-0.404142	-1.528324	-0.137816
-0.000377	-0.205309	-4.048355	
1.00000	-0.404142	-0.775099	-0.137816
-0.000377	-0.402869	-5.836402	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.284121	0.831781	0.210429
0.001293	0.508008	2.417225	
0.25000	0.284121	1.887208	0.210429
0.001293	0.246683	5.040987	
0.50000	0.284121	3.399842	0.210429
0.001293	0.005813	6.348027	
0.75000	0.284121	4.860553	0.210429
0.001293	0.223216	5.306002	
1.00000	0.284121	6.344432	0.210429
0.001293	0.451271	3.031009	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.273022	-7.287756	-0.183817
-0.000346	-0.464520	-9.933901	
0.25000	-0.273022	-5.556943	-0.183817
-0.000346	-0.236217	-6.274867	
0.50000	-0.273022	-4.246357	-0.183817
-0.000346	-0.021614	-6.144814	
0.75000	-0.273022	-2.691154	-0.183817
-0.000346	-0.207746	-6.497572	
1.00000	-0.273022	-1.493526	-0.183817
-0.000346	-0.539031	-9.188763	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.601100	6.445863	0.241440
0.001284	0.573738	9.503044	
0.25000	0.601100	17.697121	0.241440
0.001284	0.276712	37.440894	
0.50000	0.601100	33.822365	0.241440
0.001284	0.026561	51.340663	
0.75000	0.601100	49.394101	0.241440
0.001284	0.254410	40.368211	
1.00000	0.601100	65.212808	0.241440
0.001284	0.497906	9.822965	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.305479	-67.020750	-0.202348
-0.000754	-0.521875	-46.902483	
0.25000	-0.305479	-48.569632	-0.202348
-0.000754	-0.272178	-16.778655	
0.50000	-0.305479	-34.582293	-0.202348
-0.000754	-0.042811	-18.768881	
0.75000	-0.305479	-18.019241	-0.202348
-0.000754	-0.333231	-22.170880	
1.00000	-0.305479	-5.252070	-0.202348
-0.000754	-0.633378	-49.485411	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.208258	0.199566	0.241262
0.000418	0.579736	1.214235	
0.25000	0.208258	1.206461	0.241262
0.000418	0.279837	1.187836	
0.50000	0.208258	0.225764	0.241262
0.000418	0.004670	1.172300	
0.75000	0.208258	0.247312	0.241262
0.000418	0.162666	1.216537	
1.00000	0.208258	0.266387	0.241262
0.000418	0.328888	1.431603	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.695051	-0.840882	-0.133622
-0.001240	-0.535116	-8.788786	
0.25000	-0.695051	-0.823171	-0.133622
-0.001240	-0.168848	-8.147638	
0.50000	-0.695051	-0.801924	-0.133622
-0.001240	-0.027565	-7.566440	
0.75000	-0.695051	-0.781950	-0.133622
-0.001240	-0.320293	-7.069833	
1.00000	-0.695051	-0.770863	-0.133622
-0.001240	-0.620170	-6.681866	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.812613	13.124378	0.352232
0.000537	0.830058	13.972283	
0.25000	0.812613	24.100908	0.352232
0.000537	0.594822	48.779666	
0.50000	0.812613	54.630541	0.352232
0.000537	0.049046	73.692641	
0.75000	0.812613	89.135126	0.352232
0.000537	0.321875	53.078978	
1.00000	0.812613	119.503128	0.352232
0.000537	0.614422	12.856671	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.753639	-120.502299	-0.245418
-0.001471	-0.624728	-78.328940	
0.25000	-0.753639	-92.307241	-0.245418
-0.001471	-0.322490	-30.059572	
0.50000	-0.753639	-58.481333	-0.245418
-0.001471	-0.072112	-33.452785	
0.75000	-0.753639	-26.682113	-0.245418
-0.001471	-0.493899	-38.105268	
1.00000	-0.753639	-9.033035	-0.245418
-0.001471	-0.931700	-81.701184	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.791605	9.353503	0.453170
0.000848	1.078095	11.119875	
0.25000	0.791605	17.147391	0.453170
0.000848	0.523259	35.840961	
0.50000	0.791605	38.966974	0.453170
0.000848	0.037198	53.528304	
0.75000	0.791605	63.324953	0.453170
0.000848	0.400152	39.014602	
1.00000	0.791605	84.887761	0.453170
0.000848	0.786857	10.874844	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.727065	-86.464177	-0.318556
-0.001307	-0.810970	-64.949569	
0.25000	-0.727065	-66.444270	-0.318556
-0.001307	-0.417312	-29.817015	
0.50000	-0.727065	-42.426175	-0.318556
-0.001307	-0.073538	-31.391470	
0.75000	-0.727065	-19.847130	-0.318556
-0.001307	-0.618105	-33.970569	
1.00000	-0.727065	-7.315399	-0.318556
-0.001307	-1.181446	-64.286705	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.735506	7.905346	0.512213
0.001108	1.225695	9.820540	
0.25000	0.735506	14.374397	0.512213
0.001108	0.596059	30.316366	
0.50000	0.735506	32.484998	0.512213
0.001108	0.032108	44.993725	
0.75000	0.735506	52.702509	0.512213
0.001108	0.454175	32.956043	
1.00000	0.735506	70.599982	0.512213
0.001108	0.898988	9.630565	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.820450	-72.017129	-0.363953
-0.001182	-0.922960	-56.752039	
0.25000	-0.820450	-55.400287	-0.363953
-0.001182	-0.472545	-27.430530	
0.50000	-0.820450	-35.464886	-0.363953
-0.001182	-0.070380	-28.593537	
0.75000	-0.820450	-16.723920	-0.363953
-0.001182	-0.688841	-30.600736	
1.00000	-0.820450	-6.322383	-0.363953
-0.001182	-1.325959	-55.651857	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.686809	9.147020	0.118388
0.000198	0.272960	9.336763	
0.25000	0.686809	16.841623	0.118388
0.000198	0.134451	33.768237	
0.50000	0.686809	38.383250	0.118388
0.000198	0.031927	51.251261	
0.75000	0.686809	62.430936	0.118388
0.000198	0.159449	36.983482	
1.00000	0.686809	83.719058	0.118388
0.000198	0.299212	8.834318	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.106084	-84.402875	-0.119754
-6.07E-05	-0.309899	-52.010826	
0.25000	-0.106084	-64.637998	-0.119754
-6.07E-05	-0.163045	-18.188568	
0.50000	-0.106084	-40.325667	-0.119754
-6.07E-05	-0.037445	-20.607148	
0.75000	-0.106084	-18.634454	-0.119754
-6.07E-05	-0.175523	-23.913371	
1.00000	-0.106084	-6.262362	-0.119754
-6.07E-05	-0.322769	-54.492485	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.651178	8.792174	0.289007
0.000660	0.686041	9.791096	
0.25000	0.651178	16.135142	0.289007
0.000660	0.293486	33.090248	
0.50000	0.651178	36.692339	0.289007
0.000660	0.031408	49.771258	
0.75000	0.651178	59.641073	0.289007
0.000660	0.293760	36.086246	
1.00000	0.651178	79.956351	0.289007
0.000660	0.574395	9.352177	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.291388	-80.994611	-0.232932
-5.74E-05	-0.597470	-55.473739	
0.25000	-0.291388	-62.132968	-0.232932
-5.74E-05	-0.310173	-22.768093	
0.50000	-0.291388	-39.504455	-0.232932
-5.74E-05	-0.050936	-24.643239	
0.75000	-0.291388	-18.231735	-0.232932
-5.74E-05	-0.396809	-27.403750	
1.00000	-0.291388	-6.425034	-0.232932
-5.74E-05	-0.756295	-56.251104	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.822313	5.846498	0.419906
0.000923	1.002497	7.789159	
0.25000	0.822313	10.618393	0.419906
0.000923	0.485840	22.880387	
0.50000	0.822313	23.977676	0.419906
0.000923	0.024780	33.726336	
0.75000	0.822313	38.891120	0.419906
0.000923	0.386018	25.232343	
1.00000	0.822313	52.093189	0.419906
0.000923	0.769115	8.520525	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.525710	-53.889427	-0.312726
-0.000885	-0.794698	-47.208438	
0.25000	-0.525710	-41.632016	-0.312726
-0.000885	-0.407465	-24.875559	
0.50000	-0.525710	-26.926670	-0.312726
-0.000885	-0.061319	-25.085992	
0.75000	-0.525710	-13.102398	-0.312726
-0.000885	-0.566836	-26.136889	
1.00000	-0.525710	-5.429705	-0.312726
-0.000885	-1.088777	-44.223137	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.800984	5.004012	0.483332
0.001178	1.161926	7.073839	
0.25000	0.800984	9.011618	0.483332
0.001178	0.565240	19.754978	
0.50000	0.800984	20.231215	0.483332
0.001178	0.022129	28.868132	
0.75000	0.800984	32.756052	0.483332
0.001178	0.459573	21.727768	
1.00000	0.800984	43.843616	0.483332
0.001178	0.916958	7.702169	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.524989	-45.444801	-0.371784
-0.000907	-0.939535	-41.905382	
0.25000	-0.524989	-35.150594	-0.371784
-0.000907	-0.479026	-23.038162	
0.50000	-0.524989	-22.800525	-0.371784
-0.000907	-0.058849	-23.104127	
0.75000	-0.524989	-11.148114	-0.371784
-0.000907	-0.643238	-23.874347	
1.00000	-0.524989	-4.746616	-0.371784
-0.000907	-1.243740	-38.970185	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.264055	0.166380	0.200771
0.000618	0.491688	0.857982	
0.25000	0.264055	0.173275	0.200771
0.000618	0.241686	0.878418	
0.50000	0.264055	0.192578	0.200771
0.000618	0.002239	0.904916	
0.75000	0.264055	0.214126	0.200771
0.000618	0.223713	0.919217	
1.00000	0.264055	0.233201	0.200771
0.000618	0.447777	0.956005	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.110665	-0.396432	-0.180108
-0.000287	-0.447737	-3.395699	
0.25000	-0.110665	-0.378721	-0.180108
-0.000287	-0.224374	-2.852730	
0.50000	-0.110665	-0.357474	-0.180108
-0.000287	-0.010004	-2.979324	
0.75000	-0.110665	-0.337500	-0.180108
-0.000287	-0.256000	-2.818654	
1.00000	-0.110665	-0.326413	-0.180108
-0.000287	-0.505829	-2.719216	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.320426	0.633659	0.362964
0.001088	0.885181	1.885501	
0.25000	0.320426	0.861187	0.362964
0.001088	0.433319	2.530250	
0.50000	0.320426	1.498171	0.362964
0.001088	0.004372	3.042446	
0.75000	0.320426	2.209258	0.362964
0.001088	0.356320	2.643679	
1.00000	0.320426	2.838746	0.362964
0.001088	0.716122	1.942046	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.429468	-3.173010	-0.289474
-0.000319	-0.723793	-8.825463	
0.25000	-0.429468	-2.588565	-0.289474
-0.000319	-0.364821	-7.342120	
0.50000	-0.429468	-1.887399	-0.289474
-0.000319	-0.023391	-7.013635	
0.75000	-0.429468	-1.228245	-0.289474
-0.000319	-0.466770	-6.734495	
1.00000	-0.429468	-0.862403	-0.289474
-0.000319	-0.918738	-7.406053	

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.579759	0.304341	0.430632
0.001210	1.045838	2.277300	
0.25000	0.579759	0.310547	0.430632
0.001210	0.509908	2.248246	
0.50000	0.579759	0.327919	0.430632
0.001210	0.004609	2.284504	
0.75000	0.579759	0.347312	0.430632
0.001210	0.427667	2.563152	
1.00000	0.579759	0.364480	0.430632
0.001210	0.865996	3.119400	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.343805	-1.514432	-0.352418
-0.000292	-0.687375	-13.863485	
0.25000	-0.343805	-1.498492	-0.352418
-0.000292	-0.450010	-12.606768	
0.50000	-0.343805	-1.479370	-0.352418
-0.000292	-0.034243	-11.460255	
0.75000	-0.343805	-1.461393	-0.352418
-0.000292	-0.557520	-10.471087	
1.00000	-0.343805	-1.451415	-0.352418
-0.000292	-1.093161	-9.635270	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.924102	5.441158	0.471168

```
 0.001193     1.134039     7.387067
 0.25000      0.924102     9.784885     0.471168
 0.001193     0.552735    21.120354
 0.50000      0.924102    21.945481     0.471168
 0.001193     1.023101    31.003615
 0.75000      0.924102    35.520788     0.471168
 0.001193     0.478938    23.267576
 1.00000      0.924102    47.538276     0.471168
 0.001193     0.953964     7.971577

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.430540   -49.044976    -0.386649
-0.000724    -0.977672   -42.660357
 0.25000    -0.430540   -37.887385    -0.386649
-0.000724    -0.498777   -22.331447
 0.50000    -0.430540   -24.501504    -0.386649
-0.000724    -0.055144   -22.617751
 0.75000    -0.430540   -11.917641    -0.386649
-0.000724    -0.625117   -23.608015
 1.00000    -0.430540    -4.933396    -0.386649
-0.000724    -1.211181   -40.111036

COMB      DB -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.601100    11.446156     0.258028
 0.001293    0.606649    15.308883
 0.25000     0.601100    32.067930     0.258028
 0.001293    0.290004    66.500213
 0.50000     0.601100    61.622949     0.258028
 0.001293    0.045043    91.962033
 0.75000     0.601100    90.163477     0.258028
 0.001293    0.262729    71.642804
 1.00000     0.601100   119.156663     0.258028
 0.001293    0.513244    14.455291

COMB      DB -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.485865  -121.249188    -0.206478
-0.001388    -0.528117    -78.457331
 0.25000    -0.485865    -87.431211    -0.206478
-0.001388    -0.272178    -24.452844
 0.50000    -0.485865    -61.823958    -0.206478
-0.001388    -0.055274    -28.543598
 0.75000    -0.485865    -31.437179    -0.206478
-0.001388    -0.362418    -34.753471
 1.00000    -0.485865     -9.033035    -0.206478
-0.001388    -0.683183    -84.768671
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4325

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.924102    13.124378     0.512213
 0.001210    1.225695    13.972283
 0.25000     0.924102    24.100908     0.512213
 0.001210    0.596059    48.799666
 0.50000     0.924102    54.830541     0.512213
 0.001210    0.049046    73.692641
 0.75000     0.924102    89.135126     0.512213
 0.001210    0.478938    53.078978
 1.00000     0.924102   119.503128     0.512213
 0.001210    0.953964    12.856671

COMB      DL -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.820450  -120.502299    -0.386649
-0.001471    -0.977672    -78.328940
 0.25000    -0.820450    -92.307241    -0.386649
-0.001471    -0.498777    -30.059572
 0.50000    -0.820450    -58.481333    -0.386649
-0.001471    -0.073538    -33.452785
 0.75000    -0.820450    -26.682113    -0.386649
-0.001471    -0.688841    -38.105268
 1.00000    -0.820450     -9.033035    -0.386649
-0.001471    -1.325959    -81.701184

COMB      CAR -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.924102    13.124378     0.512213
 0.001293    1.225695    15.308883
 0.25000     0.924102    32.067930     0.512213
 0.001293    0.596059    66.500213
 0.50000     0.924102    61.622949     0.512213
 0.001293    0.049046    91.962033
 0.75000     0.924102    90.163477     0.512213
 0.001293    0.478938    71.642804
 1.00000     0.924102   119.503128     0.512213
 0.001293    0.953964    14.455291

COMB      CAR -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.820450  -121.249188    -0.386649
-0.001471    -0.977672    -78.457331
 0.25000    -0.820450    -92.307241    -0.386649
-0.001471    -0.498777    -30.059572
 0.50000    -0.820450    -61.823958    -0.386649
-0.001471    -0.073538    -33.452785
 0.75000    -0.820450    -31.437179    -0.386649
-0.001471    -0.688841    -38.105268
 1.00000    -0.820450     -9.033035    -0.386649
-0.001471    -1.325959    -84.768671

COMB   DESIGN -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.924102    13.124378     0.512213
 0.001293    1.225695    15.308883
 0.25000     0.924102    32.067930     0.512213
 0.001293    0.596059    66.500213
 0.50000     0.924102    61.622949     0.512213
 0.001293    0.049046    91.962033
 0.75000     0.924102    90.163477     0.512213
 0.001293    0.478938    71.642804
 1.00000     0.924102   119.503128     0.512213
 0.001293    0.953964    14.455291

COMB   DESIGN -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.820450  -121.249188    -0.386649
-0.001471    -0.977672    -78.457331
 0.25000    -0.820450    -92.307241    -0.386649
-0.001471    -0.498777    -30.059572
 0.50000    -0.820450    -61.823958    -0.386649
-0.001471    -0.073538    -33.452785
 0.75000    -0.820450    -31.437179    -0.386649
-0.001471    -0.688841    -38.105268
 1.00000    -0.820450     -9.033035    -0.386649
-0.001471    -1.325959    -84.768671
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4326

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       419 ================== LENGTH
=     4.972684

COMB DB-G1-1 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.102695     0.032406     0.131762
 7.33E-06    0.324837     0.990356
 0.25000     0.102695     0.056351     0.131762
 7.33E-06    0.161088     1.410271
 0.50000     0.102695     0.088131     0.131762
 7.33E-06    0.006816     1.978719
 0.75000     0.102695     0.118066     0.131762
 7.33E-06    0.109361     2.680538
 1.00000     0.102695     0.149618     0.131762
 7.33E-06    0.218076     3.419490

COMB DB-G1-1 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.120727    -0.910249    -0.087458
-0.001293    -0.221838    -3.510524
 0.25000    -0.120727    -0.878303    -0.087458
-0.001293    -0.108098    -3.363980
 0.50000    -0.120727    -0.848424    -0.087458
-0.001293    -0.009919    -3.272802
 0.75000    -0.120727    -0.816581    -0.087458
-0.001293     0.166739    -3.162600
 1.00000    -0.120727    -0.792353    -0.087458
-0.001293    -0.330541    -3.146300

COMB DB-G1-2 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.281062    10.910591     0.221736
 8.13E-05    0.522673    14.441427
 0.25000     0.281062    33.227630     0.221736
 8.13E-05    0.276369    70.138762
 0.50000     0.281062    62.846102     0.221736
 8.13E-05    0.056572    97.050864
 0.75000     0.281062    90.745593     0.221736
 8.13E-05    0.192705    75.431978
 1.00000     0.281062   120.152367     0.221736
 8.13E-05    0.356209    18.346257

COMB DB-G1-2 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.151660  -121.578846    -0.150016
-0.001619    -0.399370    -84.750255
 0.25000    -0.151660    -91.804881    -0.150016
-0.001619    -0.212855    -33.240248
 0.50000    -0.151660    -63.957553    -0.150016
-0.001619    -0.058705    -33.201304
 0.75000    -0.151660    -34.279812    -0.150016
-0.001619    -0.305315    -33.866566
 1.00000    -0.151660    -11.699306    -0.150016
-0.001619    -0.580962    -84.719747

COMB DB-G1-3 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.245977     7.436719     0.277625
 0.000514    0.668722    11.275201
 0.25000     0.245977    22.630025     0.277625
 0.000514    0.343657    49.541128
 0.50000     0.245977    42.794103     0.277625
 0.000514    0.046775    68.437895
 0.75000     0.245977    61.787909     0.277625
 0.000514    0.213877    54.515429
 1.00000     0.245977    81.807864     0.277625
 0.000514    0.416109    16.573779

COMB DB-G1-3 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.155038   -83.631857    -0.175198
-0.001421    -0.461610    -61.029993
 0.25000    -0.155038    -63.361920    -0.175198
-0.001421    -0.243710    -25.948068
 0.50000    -0.155038    -44.403627    -0.175198
-0.001421    -0.050756    -25.928174
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4327

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.75000    -0.155038    -24.199199    -0.175198
-0.001421    -0.367488    -26.346027
 1.00000    -0.155038     -8.826526    -0.175198
-0.001421    -0.712567    -60.952245

COMB DB-G1-4 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.235014     6.213656     0.294638
 0.000904    0.714928     9.821923
 0.25000     0.235014    18.820868     0.294638
 0.000904    0.365331    41.584319
 0.50000     0.235014    35.552762     0.294638
 0.000904    0.040992    57.312583
 0.75000     0.235014    51.313580     0.294638
 0.000904    0.236679    46.016647
 1.00000     0.235014    67.925883     0.294638
 0.000904    0.464222    14.871844

COMB DB-G1-4 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.221560   -69.688067    -0.193427
-0.001185    -0.503027    -51.923142
 0.25000    -0.221560    -52.868332    -0.193427
-0.001185    -0.262479    -22.865208
 0.50000    -0.221560    -37.136982    -0.193427
-0.001185    -0.047120    -22.895870
 0.75000    -0.221560    -20.371606    -0.193427
-0.001185    -0.384673    -23.200147
 1.00000    -0.221560     -7.615558    -0.193427
-0.001185    -0.750892    -52.053546

COMB DB-G2-1 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.185962     9.189439     0.098057
 0.000230    0.221833    11.693391
 0.25000     0.185962    27.866790     0.098057
 0.000230    0.124481    58.064883
 0.50000     0.185962    52.654781     0.098057
 0.000230    0.043684    80.254483
 0.75000     0.185962    76.004141     0.098057
 0.000230    0.084857    61.718555
 1.00000     0.185962   100.614960     0.098057
 0.000230    0.149989    13.473813

COMB DB-G2-1 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.050767  -101.333492    -0.067851
-9.42E-05    -0.195443    -68.691075
 0.25000    -0.050767    -76.415366    -0.067851
-9.42E-05    -0.111077    -25.667967
 0.50000    -0.050767    -53.109663    -0.067851
-9.42E-05    -0.043089    -25.746980
 0.75000    -0.050767    -28.272068    -0.067851
-9.42E-05    -0.144601    -26.364352
 1.00000    -0.050767     -9.374220    -0.067851
-9.42E-05    -0.266502    -69.010006

COMB DB-G2-2 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.166309     8.488138     0.185322
 0.000801    0.439559    11.542923
 0.25000     0.166309    25.872441     0.185322
 0.000801    0.232126    54.935630
 0.50000     0.166309    48.944341     0.185322
 0.000801    0.045645    75.953100
 0.75000     0.166309    70.677207     0.185322
 0.000801    0.139087    59.265022
 1.00000     0.166309    93.584200     0.185322
 0.000801    0.265652    15.003133

COMB DB-G2-2 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.128328   -94.850345    -0.116152
-8.77E-05    -0.319391    -66.167402
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4328

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.25000    -0.128328   -71.657321    -0.116152
-8.77E-05    -0.174899    -26.141555
 0.50000    -0.128328   -49.965088    -0.116152
-8.77E-05    -0.047871    -26.234621
 0.75000    -0.128328   -26.847020    -0.116152
-8.77E-05    -0.252340    -26.828991
 1.00000    -0.128328    -9.257484    -0.116152
-8.77E-05    -0.482660    -66.542042

COMB DB-G2-3 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.246046     6.170988     0.261758
 0.000712    0.633187    10.094049
 0.25000     0.246046    18.476489     0.261758
 0.000712    0.324059    41.014316
 0.50000     0.246046    34.807961     0.261758
 0.000712    0.040967    56.389919
 0.75000     0.246046    50.191597     0.261758
 0.000712    0.243026    45.361170
 1.00000     0.246046    66.406341     0.261758
 0.000712    0.376758    15.041522

COMB DB-G2-3 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.186790   -68.150544    -0.158699
-0.000994    -0.417673    -50.387562
 0.25000    -0.186790    -51.733333    -0.158699
-0.000994    -0.220265    -22.004179
 0.50000    -0.186790    -36.378460    -0.158699
-0.000994    -0.044669    -22.019170
 0.75000    -0.186790    -20.616868    -0.158699
-0.000994    -0.343719    -22.389288
 1.00000    -0.186790     -7.563531    -0.158699
-0.000994    -0.669055    -50.449705

COMB DB-G2-4 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.248718     5.224781     0.277565
 0.001064    0.675757     8.868854
 0.25000     0.248718    15.533242     0.277565
 0.001064    0.344373    34.789095
 0.50000     0.248718    29.216807     0.277565
 0.001064    0.036017    47.677181
 0.75000     0.248718    42.101357     0.277565
 0.001064    0.224418    38.590685
 1.00000     0.248718    55.684636     0.277565
 0.001064    0.443401    13.392972

COMB DB-G2-4 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.192923   -57.276643    -0.184595
-0.000828    -0.478952    -43.285245
 0.25000    -0.192923    -43.523755    -0.184595
-0.000828    -0.249337    -19.580251
 0.50000    -0.192923    -30.660799    -0.184595
-0.000828    -0.042071    -19.664777
 0.75000    -0.192923    -16.952358    -0.184595
-0.000828    -0.360053    -20.047131
 1.00000    -0.192923     -6.522199    -0.184595
-0.000828    -0.705054    -43.625975

COMB DB-G3-1 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.076694     0.126227     0.088995
 0.000705    0.223168     0.673338
 0.25000     0.076694     0.150172     0.088995
 0.000705    0.112556     0.756242
 0.50000     0.076694     0.181951     0.088995
 0.000705    0.002836     0.817159
 0.75000     0.076694     0.211886     0.088995
 0.000705    0.102357     0.992094
 1.00000     0.076694     0.242038     0.088995
 0.000705    0.205622     1.234084
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4329

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.084881    -0.412652    -0.083078
-5.55E-07    -0.207565    -1.651387
 0.25000    -0.084881    -0.380706    -0.083078
-5.55E-07    -0.104327    -1.725140
 0.50000    -0.084881    -0.350827    -0.083078
-5.55E-07    -0.007238    -1.855611
 0.75000    -0.084881    -0.318984    -0.083078
-5.55E-07    -0.108737    -1.987478
 1.00000    -0.084881    -0.294756    -0.083078
-5.55E-07    -0.219380    -2.173905

COMB DB-G3-2 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.101127     0.495899     0.164965
 0.001255    0.410609     1.596142
 0.25000     0.101127     1.214259     0.164965
 0.001255    0.208718     3.423277
 0.50000     0.101127     2.167643     0.164965
 0.001255    0.007530     4.477440
 0.75000     0.101127     3.065695     0.164965
 0.001255    0.162899     4.353707
 1.00000     0.101127     4.012265     0.164965
 0.001255    0.326446     3.294321

COMB DB-G3-2 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.225105    -4.594877    -0.132558
-4.04E-06    -0.233750    -5.800559
 0.25000    -0.225105    -3.634488    -0.132558
-4.04E-06    -0.168924    -4.304442
 0.50000    -0.225105    -2.740115    -0.132558
-4.04E-06    -0.014691    -4.469054
 0.75000    -0.225105    -1.784823    -0.132558
-4.04E-06    -0.205565    -4.655303
 1.00000    -0.225105    -1.057982    -0.132558
-4.04E-06    -0.410629    -6.459442

COMB DB-G3-3 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.148658     0.736575     0.225707
 0.001433    0.558891     2.995833
 0.25000     0.148658     1.878767     0.225707
 0.001433    0.280601     6.120908
 0.50000     0.148658     3.394648     0.225707
 0.001433    0.013847     8.016486
 0.75000     0.148658     4.822551     0.225707
 0.001433    0.194123     7.920643
 1.00000     0.148658     6.327597     0.225707
 0.001433    0.397564     6.279135

COMB DB-G3-3 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.173420    -7.419023    -0.164520
-6.13E-06    -0.421015    -9.140628
 0.25000    -0.173420    -5.895183    -0.164520
-6.13E-06    -0.216397    -6.656716
 0.50000    -0.173420    -4.469950    -0.164520
-6.13E-06    -0.021330    -6.810691
 0.75000    -0.173420    -2.951035    -0.164520
-6.13E-06    -0.283075    -6.997999
 1.00000    -0.173420    -1.795359    -0.164520
-6.13E-06    -0.563605    -9.756418

COMB DB-G3-4 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.276573     6.178176     0.266276
 0.001198    0.646334     9.792630
 0.25000     0.276573    18.354372     0.266276
 0.001198    0.331975    40.270117
 0.50000     0.276573    34.514236     0.266276
 0.001198    0.038849    55.232620
 0.75000     0.276573    49.736222     0.266276
 0.001198    0.226395    44.108657
 1.00000     0.276573    65.780583     0.266276
 0.001198    0.445052    13.870405
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4330

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.198656   -67.216269    -0.185918
-0.000554    -0.484682    -49.437956
 0.25000    -0.198656    -50.971568    -0.185918
-0.000554    -0.253471    -21.485745
 0.50000    -0.198656    -35.778042    -0.185918
-0.000554    -0.044951    -21.634483
 0.75000    -0.198656    -19.585841    -0.185918
-0.000554    -0.347381    -22.134578
 1.00000    -0.198656     -7.265897    -0.185918
-0.000554    -0.678350    -50.034668

COMB DL-G1-1 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.138227     0.034525     0.263580
 6.14E-06    0.653666     1.442861
 0.25000     0.138227     0.042567     0.263580
 6.14E-06    0.326067     1.714749
 0.50000     0.138227     0.061299     0.263580
 6.14E-06    0.007326     2.128717
 0.75000     0.138227     0.083208     0.263580
 6.14E-06    0.146340     2.670588
 1.00000     0.138227     0.101834     0.263580
 6.14E-06    0.299645     3.336268

COMB DL-G1-1 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.300080    -1.028796    -0.123250
-0.001425    -0.312754    -6.737501
 0.25000    -0.300080    -1.010259    -0.123250
-0.001425    -0.159443    -5.922503
 0.50000    -0.300080    -0.989067    -0.123250
-0.001425    -0.014982    -5.262707
 0.75000    -0.300080    -0.969577    -0.123250
-0.001425    -0.329951    -4.713931
 1.00000    -0.300080    -0.961138    -0.123250
-0.001425    -0.657435    -4.306709

COMB DL-G1-2 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.403065    12.348694     0.387772
 5.52E-05    0.952520    12.971124
 0.25000     0.403065    25.152186     0.387772
 5.52E-05    0.492956    53.207099
 0.50000     0.403065    56.086757     0.387772
 5.52E-05    0.059455    77.446838
 0.75000     0.403065    89.851317     0.387772
 5.52E-05    0.281264    55.968204
 1.00000     0.403065   119.504564     0.387772
 5.52E-05    0.539368    17.099436

COMB DL-G1-2 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.367027  -121.389024    -0.228951
-0.001703    -0.606805    -81.762988
 0.25000    -0.367027    -91.878053    -0.228951
-0.001703    -0.322476    -35.018378
 0.50000    -0.367027    -58.139671    -0.228951
-0.001703    -0.057626    -34.383404
 0.75000    -0.367027    -27.111757    -0.228951
-0.001703    -0.509961    -34.111527
 1.00000    -0.367027    -13.677972    -0.228951
-0.001703    -0.990538    -78.131940

COMB DL-G1-3 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.382856     8.793210     0.491125
 0.000422    1.213218    10.869856
 0.25000     0.382856    17.884332     0.491125
 0.000422    0.620282    39.758521
 0.50000     0.382856    39.849432     0.491125
 0.000422    0.051072    57.403118
 0.75000     0.382856    63.823966     0.491125
 0.000422    0.334878    42.764736
 1.00000     0.382856    84.879468     0.491125
 0.000422    0.665814    15.919967
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4331

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.380500   -87.126184    -0.281641
-0.001508    -0.740318    -64.342904
 0.25000    -0.380500    -66.171911    -0.281641
-0.001508    -0.390765    -30.483984
 0.50000    -0.380500    -42.215965    -0.281641
-0.001508    -0.056307    -29.492725
 0.75000    -0.380500    -20.184586    -0.281641
-0.001508    -0.627175    -28.802057
 1.00000    -0.380500    -10.645924    -0.281641
-0.001508    -1.236705    -59.816465

COMB DL-G1-4 -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.363310     7.352108     0.550501
```

0.000837	1.363972	9.605158	
0.25000	0.363310	14.897885	0.550501
0.000837	0.693829	33.650737	
0.50000	0.363310	33.129268	0.550501
0.000837	0.045385	48.458349	
0.75000	0.363310	53.028513	0.550501
0.000837	0.384323	36.598048	
1.00000	0.363310	70.504914	0.550501
0.000837	0.770796	14.655326	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.433163	-72.666168	-0.323644
-0.001257	-0.843213	-55.693602	
0.25000	-0.433163	-55.273788	-0.323644
-0.001257	-0.441281	-27.367144	
0.50000	-0.433163	-35.389971	-0.323644
-0.001257	-0.053747	-26.410879	
0.75000	-0.433163	-17.103577	-0.323644
-0.001257	-0.695491	-25.773077	
1.00000	-0.433163	-9.186335	-0.323644
-0.001257	-1.379387	-51.521757	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.276920	8.751614	0.129310
0.000191	0.314306	8.829573	
0.25000	0.276920	17.726926	0.129310
0.000191	0.177619	36.316178	
0.50000	0.276920	39.412216	0.129310
0.000191	0.039483	53.690372	
0.75000	0.276920	63.081342	0.129310
0.000191	0.128693	38.492383	
1.00000	0.276920	83.868621	0.129310
0.000191	0.241014	11.050893	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.079316	-84.795965	-0.105445
-7.67E-05	-0.289231	-54.493289	
0.25000	-0.079316	-64.108626	-0.105445
-7.67E-05	-0.158445	-22.082615	
0.50000	-0.079316	-40.457851	-0.105445
-7.67E-05	-0.034643	-21.952639	
0.75000	-0.079316	-18.707127	-0.105445
-7.67E-05	-0.177405	-21.962564	
1.00000	-0.079316	-9.289976	-0.105445
-7.67E-05	-0.337358	-53.114659	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.261716	8.295334	0.308599
0.000706	0.762558	9.322784	
0.25000	0.261716	16.860484	0.308599
0.000706	0.395254	36.371195	
0.50000	0.261716	37.554780	0.308599
0.000706	0.043710	52.772874	
0.75000	0.261716	60.182252	0.308599
0.000706	0.234877	38.694377	
1.00000	0.261716	79.979575	0.308599
0.000706	0.463430	13.031191	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4332

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.183645	-81.512572	-0.198535
-7.32E-05	-0.530164	-56.252283	
0.25000	-0.183645	-61.770621	-0.198535
-7.32E-05	-0.283854	-24.863481	
0.50000	-0.183645	-39.200662	-0.198535
-7.32E-05	-0.044194	-24.393585	
0.75000	-0.183645	-18.443922	-0.198535
-7.32E-05	-0.395654	-24.149058	
1.00000	-0.183645	-9.457125	-0.198535
-7.32E-05	-0.778744	-53.722069	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.376818	5.568734	0.452665
0.000630	1.122202	8.505049	
0.25000	0.376818	11.134875	0.452665
0.000630	0.570175	26.131586	
0.50000	0.376818	24.583252	0.452665
0.000630	0.038227	37.119277	
0.75000	0.376818	39.261928	0.452665
0.000630	0.322150	26.760454	
1.00000	0.376818	52.153394	0.452665
0.000630	0.650767	13.031871	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.313798	-54.189625	-0.273655
-0.001028	-0.714021	-44.247168	
0.25000	-0.313798	-41.360138	-0.273655
-0.001028	-0.374351	-23.103981	
0.50000	-0.313798	-26.692843	-0.273655
-0.001028	-0.046268	-22.209808	
0.75000	-0.313798	-13.203886	-0.273655
-0.001028	-0.170515	-21.441299	
1.00000	-0.313798	-7.363733	-0.273655
-0.001028	-1.132851	-40.087009	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.382048	4.752794	0.515873
0.001017	1.281860	7.665809	
0.25000	0.382048	9.427436	0.515873
0.001017	0.649342	22.566567	
0.50000	0.382048	20.721858	0.515873
0.001017	0.031751	31.928655	
0.75000	0.382048	33.049528	0.515873
0.001017	0.390311	25.123814	
1.00000	0.382048	43.876236	0.515873
0.001017	0.791325	12.172739	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.336527	-45.759443	-0.330480
-0.000857	-0.855169	-38.978262	
0.25000	-0.336527	-34.984787	-0.330480
-0.000857	-0.444501	-21.126294	
0.50000	-0.336527	-22.666675	-0.330480
-0.000857	-0.045328	-20.330516	
0.75000	-0.336527	-11.338173	-0.330480
-0.000857	-0.645017	-19.705828	
1.00000	-0.336527	-6.433407	-0.330480
-0.000857	-1.286328	-35.436565	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139692	0.167368	0.205510
0.000747	0.514654	0.917135	
0.25000	0.139692	0.175411	0.205510
0.000747	0.258720	1.071659	
0.50000	0.139692	0.194842	0.205510
0.000747	0.004374	1.277631	
0.75000	0.139692	0.216051	0.205510
0.000747	0.199348	1.567339	
1.00000	0.139692	0.234677	0.205510
0.000747	0.407181	1.920164	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4333

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.113852	-0.446645	-0.167070
-3.53E-07	-0.423483	-2.693005	
0.25000	-0.113852	-0.428107	-0.167070
-3.53E-07	-0.215649	-2.579645	
0.50000	-0.113852	-0.406915	-0.167070
-3.53E-07	-0.009773	-2.565484	
0.75000	-0.113852	-0.387425	-0.167070
-3.53E-07	-0.250421	-2.655430	
1.00000	-0.113852	-0.378987	-0.167070
-3.53E-07	-0.506347	-2.831076	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171056	0.457503	0.376074
0.001295	0.940555	1.878477	
0.25000	0.171056	0.722902	0.376074
0.001295	0.472565	2.932921	
0.50000	0.171056	1.364134	0.376074
0.001295	0.009584	3.851284	
0.75000	0.171056	2.064027	0.376074
0.001295	0.311153	4.090055	
1.00000	0.171056	2.678705	0.376074
0.001295	0.636726	4.117585	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.273753	-3.379822	-0.262305
-2.54E-06	-0.667943	-7.476322	
0.25000	-0.273753	-2.768100	-0.262305
-2.54E-06	-0.341646	-6.002467	
0.50000	-0.273753	-2.068749	-0.262305
-2.54E-06	-0.019816	-5.770646	
0.75000	-0.273753	-1.425582	-0.262305
-2.54E-06	-0.460541	-5.722373	
1.00000	-0.273753	-1.147113	-0.262305
-2.54E-06	-0.928891	-6.729783	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.266103	0.271564	0.447783
0.001393	1.120291	3.053776	
0.25000	0.266103	0.278802	0.447783
0.001393	0.563137	3.364259	
0.50000	0.266103	0.296290	0.447783
0.001393	0.014388	4.011452	
0.75000	0.266103	0.315378	0.447783
0.001393	0.358715	5.092571	
1.00000	0.266103	0.332142	0.447783
0.001393	0.741962	6.389823	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251940	-1.557362	-0.307903
-3.14E-06	-0.790381	-9.610569	
0.25000	-0.251940	-1.540679	-0.307903
-3.14E-06	-0.407334	-8.747682	
0.50000	-0.251940	-1.521606	-0.307903
-3.14E-06	-0.027734	-8.510355	
0.75000	-0.251940	-1.504065	-0.307903
-3.14E-06	-0.547200	-7.815467	
1.00000	-0.251940	-1.496470	-0.307903
-3.14E-06	-1.104477	-7.701993	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.421030	5.207123	0.498173
0.001156	1.238789	7.923124	
0.25000	0.421030	10.273831	0.498173
0.001156	0.628776	23.998814	
0.50000	0.421030	22.515528	0.498173
0.001156	0.035582	34.013810	
0.75000	0.421030	35.877131	0.498173
0.001156	0.408329	26.461067	
1.00000	0.421030	47.611885	0.498173
0.001156	0.826929	12.210641	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4334

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.305699	-49.315832	-0.344813
-0.000554	-0.891955	-40.100364	
0.25000	-0.305699	-37.637496	-0.344813
-0.000554	-0.463205	-21.006709	
0.50000	-0.305699	-24.286252	-0.344813
-0.000554	-0.045226	-20.365605	
0.75000	-0.305699	-12.007618	-0.344813
-0.000554	-0.622554	-20.017192	
1.00000	-0.305699	-6.691484	-0.344813
-0.000554	-1.241847	-37.356743	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.281062	10.910591	0.294638
0.001433	0.714928	14.441427	
0.25000	0.281062	33.227630	0.294638
0.001433	0.365331	70.138762	
0.50000	0.281062	62.846102	0.294638
0.001433	0.056572	97.050864	
0.75000	0.281062	90.745593	0.294638
0.001433	0.236679	75.431978	
1.00000	0.281062	120.152367	0.294638
0.001433	0.464222	18.346257	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.225105	-121.578846	-0.193427
-0.001619	-0.503027	-84.750255	
0.25000	-0.225105	-91.804881	-0.193427
-0.001619	-0.262479	-33.240248	
0.50000	-0.225105	-63.957553	-0.193427
-0.001619	-0.058705	-33.231904	
0.75000	-0.225105	-34.279812	-0.193427
-0.001619	-0.384673	-33.866566	
1.00000	-0.225105	-11.699306	-0.193427
-0.001619	-0.750892	-84.719747	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.421030	12.348694	0.550501
0.001393	1.363972	12.870124	
0.25000	0.421030	25.152186	0.550501
0.001393	0.693829	53.207099	
0.50000	0.421030	56.086757	0.550501
0.001393	0.059455	77.446838	
0.75000	0.421030	89.651317	0.550501
0.001393	0.408329	55.968204	
1.00000	0.421030	119.504854	0.550501
0.001393	0.826929	17.099436	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.433163	-121.389024	-0.344813
-0.001703	-0.891955	-81.762988	
0.25000	-0.433163	-91.878053	-0.344813
-0.001703	-0.463205	-35.018378	
0.50000	-0.433163	-58.139671	-0.344813
-0.001703	-0.057626	-34.383404	
0.75000	-0.433163	-27.111757	-0.344813
-0.001703	-0.695491	-34.011527	
1.00000	-0.433163	-13.677972	-0.344813
-0.001703	-1.379387	-78.131940	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.421030	12.348694	0.550501
0.001433	1.363972	14.441427	
0.25000	0.421030	33.227630	0.550501
0.001433	0.693829	70.138762	
0.50000	0.421030	62.846102	0.550501
0.001433	0.059455	97.050864	
0.75000	0.421030	90.745593	0.550501
0.001433	0.408329	75.431978	
1.00000	0.421030	120.152367	0.550501
0.001433	0.826929	18.346257	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4335

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.433163	-121.578846	-0.344813
-0.001703	-0.891955	-84.750255	
0.25000	-0.433163	-91.878053	-0.344813
-0.001703	-0.463205	-35.018378	
0.50000	-0.433163	-63.957553	-0.344813
-0.001703	-0.058705	-34.383404	
0.75000	-0.433163	-34.279812	-0.344813
-0.001703	-0.695491	-34.011527	
1.00000	-0.433163	-13.677972	-0.344813
-0.001703	-1.379387	-84.719747	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.421030	12.348694	0.550501
0.001433	1.363972	14.441427	
0.25000	0.421030	33.227630	0.550501
0.001433	0.693829	70.138762	
0.50000	0.421030	62.846102	0.550501
0.001433	0.059455	97.050864	
0.75000	0.421030	90.745593	0.550501
0.001433	0.408329	75.431978	
1.00000	0.421030	120.152367	0.550501
0.001433	0.826929	18.346257	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.433163	-121.578846	-0.344813
-0.001703	-0.891955	-84.750255	
0.25000	-0.433163	-91.878053	-0.344813
-0.001703	-0.463205	-35.018378	
0.50000	-0.433163	-63.957553	-0.344813
-0.001703	-0.058705	-34.383404	
0.75000	-0.433163	-34.279812	-0.344813
-0.001703	-0.695491	-34.011527	
1.00000	-0.433163	-13.677972	-0.344813
-0.001703	-1.379387	-84.719747	

ELEM 420 ========== LENGTH = 4.972800

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.078912	0.094819	0.129039
5.38E-06	0.325090	3.396209	
0.25000	0.078912	0.118892	0.129039
5.38E-06	0.164863	3.724422	
0.50000	0.078912	0.150672	0.129039
5.38E-06	0.013488	4.175895	
0.75000	0.078912	0.180554	0.129039
5.38E-06	0.111841	4.761004	
1.00000	0.078912	0.212152	0.129039
5.38E-06	0.222736	5.394547	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.063879	-0.837187	-0.089223
-0.001243	-0.220970	-3.141998	
0.25000	-0.063879	-0.805524	-0.089223
-0.001243	-0.110059	-2.967551	
0.50000	-0.063879	-0.775649	-0.089223
-0.001243	-0.008336	-2.847544	
0.75000	-0.063879	-0.743864	-0.089223
-0.001243	-0.156460	-2.728643	
1.00000	-0.063879	-0.719690	-0.089223
-0.001243	-0.316827	-2.663986	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.118880	10.990890	0.219910
5.65E-05	0.544710	18.314474	
0.25000	0.118880	33.427451	0.219910
5.65E-05	0.291242	76.756679	
0.50000	0.118880	63.045626	0.219910
5.65E-05	0.068097	100.924321	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4336

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

0.75000	0.118880	90.896241	0.219910
5.65E-05	0.183665	78.987269	
1.00000	0.118880	120.345650	0.219910
5.65E-05	0.331069	21.747537	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.122861	-121.486880	-0.141703
-0.001606	-0.376698	-84.713644	
0.25000	-0.122861	-91.976435	-0.141703
-0.001606	-0.200558	-33.192407	
0.50000	-0.122861	-64.132724	-0.141703
-0.001606	-0.055418	-32.403464	
0.75000	-0.122861	-34.509446	-0.141703
-0.001606	-0.291373	-32.645393	
1.00000	-0.122861	-11.979675	-0.141703
-0.001606	-0.564678	-83.437566	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.119667	7.613836	0.271021
0.000416	0.678064	16.530088	
0.25000	0.119667	22.888512	0.271021
0.000416	0.354852	56.534826	
0.50000	0.119667	43.052387	0.271021
0.000416	0.061941	73.404303	
0.75000	0.119667	62.012918	0.271021
0.000416	0.184976	59.132278	
1.00000	0.119667	82.061899	0.271021
0.000416	0.353234	20.976393	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.176117	-83.498772	-0.151010
-0.001380	-0.399618	-60.934087	
0.25000	-0.176117	-63.408339	-0.151010
-0.001380	-0.211843	-25.755648	
0.50000	-0.176117	-44.452508	-0.151010
-0.001380	-0.047353	-25.115825	
0.75000	-0.176117	-24.285156	-0.151010
-0.001380	-0.343854	-25.177933	
1.00000	-0.176117	-8.947025	-0.151010
-0.001380	-0.680590	-59.654285	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.131218	6.351956	0.284449
0.000784	0.714435	14.819966	
0.25000	0.131218	19.026687	0.284449
0.000784	0.372263	48.147254	
0.50000	0.131218	35.758414	0.284449
0.000784	0.056923	62.350146	
0.75000	0.131218	51.481520	0.284449
0.000784	0.211451	50.760580	
1.00000	0.131218	68.128009	0.284449
0.000784	0.409482	19.412284	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.201975	-69.560584	-0.172288
-0.001150	-0.448843	-52.029354	
0.25000	-0.201975	-52.889715	-0.172288
-0.001150	-0.234597	-22.824310	
0.50000	-0.201975	-37.160409	-0.172288
-0.001150	-0.044182	-22.279124	
0.75000	-0.201975	-20.425800	-0.172288
-0.001150	-0.355857	-22.316771	
1.00000	-0.201975	-7.698413	-0.172288
-0.001150	-0.709246	-50.910940	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.032402	9.220521	0.097356
0.000178	0.238037	13.462942	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4337

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.032402	27.997901	0.097356
0.000178	0.133537	62.183303	
0.50000	0.032402	52.785644	0.097356
0.000178	0.049291	82.131680	
0.75000	0.032402	76.094098	0.097356
0.000178	0.063955	63.391821	
1.00000	0.032402	100.740599	0.097356
0.000178	0.102472	15.092893	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.070882	-101.305935	-0.050267
-0.000212	-0.149917	-69.004128	
0.25000	-0.070882	-76.608350	-0.050267
-0.000212	-0.087449	-25.986878	
0.50000	-0.070882	-53.305676	-0.050267
-0.000212	-0.041521	-25.387987	
0.75000	-0.070882	-28.513663	-0.050267
-0.000212	-0.138219	-25.671947	
1.00000	-0.070882	-9.658275	-0.050267
-0.000212	-0.259197	-68.262311	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.048379	8.608097	0.179271
0.000657	0.446801	11.744582	
0.25000	0.048379	26.085504	0.179271
0.000657	0.239456	60.454703	
0.50000	0.048379	49.157173	0.179271
0.000657	0.056172	79.330278	
0.75000	0.048379	70.851965	0.179271
0.000657	0.103129	62.349331	
1.00000	0.048379	93.792179	0.179271
0.000657	0.188188	17.939499	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.147876	-94.762045	-0.086345
-9.37E-05	-0.243352	-66.524458	
0.25000	-0.147876	-71.774595	-0.086345
-9.37E-05	-0.135938	-26.414759	
0.50000	-0.147876	-50.085181	-0.086345
-9.37E-05	-0.045777	-25.824397	
0.75000	-0.147876	-27.009537	-0.086345
-9.37E-05	-0.307300	-26.312740	
1.00000	-0.147876	-9.459522	-0.086345
-9.37E-05	-0.456970	-65.627139	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.104634	6.345204	0.253421
0.000595	0.635907	15.000237	
0.25000	0.104634	18.716608	0.253421
0.000595	0.331977	47.372397	
0.50000	0.104634	35.047917	0.253421
0.000595	0.055656	61.131637	
0.75000	0.104634	50.404602	0.253421
0.000595	0.163324	49.795469	
1.00000	0.104634	66.642855	0.253421
0.000595	0.315005	19.281603	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.178938	-68.024379	-0.134675
-0.000983	-0.356193	-50.426663	
0.25000	-0.178938	-51.752471	-0.134675
-0.000983	-0.188671	-21.910873	
0.50000	-0.178938	-36.393593	-0.134675
-0.000983	-0.041828	-21.369330	
0.75000	-0.178938	-20.065470	-0.134675
-0.000983	-0.318416	-21.396411	
1.00000	-0.178938	-7.642670	-0.134675
-0.000983	-0.633211	-49.296589	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4338

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.130198	5.320445	0.266010

```
0.000946    0.669799   13.343695
0.25000     0.130198   15.684114     0.266010
 0.000946   0.348458   40.663983
0.50000     0.130198   29.365041     0.266010
 0.000946   0.051255   52.388944
0.75000     0.130198   42.229515     0.266010
 0.000946   0.198757   43.102435
1.00000     0.130198   55.832488     0.266010
 0.000946   0.388366   17.755689

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.203477  -57.182387   -0.163103
-0.000819   -0.423967   -43.596900
0.25000   -0.203477  -43.551221   -0.163103
-0.000819   -0.221092   -19.705848
0.50000   -0.203477  -30.889437   -0.163103
-0.000819   -0.039773   -19.249370
0.75000   -0.203477  -17.006652   -0.163103
-0.000819   -0.330105   -19.269857
1.00000   -0.203477   -6.599928   -0.163103
-0.000819   -0.660548   -42.640015

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.074518    0.038514    0.084525
0.000708    0.211967    1.213122
0.25000    0.074518    0.062587    0.084525
0.000708    0.106907    1.546490
0.50000    0.074518    0.094367    0.084525
0.000708    0.007312    1.873113
0.75000    0.074518    0.124249    0.084525
0.000708    0.100053    2.176879
1.00000    0.074518    0.155847    0.084525
0.000708    0.200868    2.460210

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.084477   -0.440976   -0.081110
-5.69E-07   -0.084477   -2.157933
0.25000   -0.084477   -0.409312   -0.081110
-5.69E-07   -0.101635   -2.103768
0.50000   -0.084477   -0.379437   -0.081110
-5.69E-07   -0.007450   -2.104232
0.75000   -0.084477   -0.347652   -0.081110
-5.69E-07   -0.103298   -2.106946
1.00000   -0.084477   -0.316279   -0.081110
-5.69E-07   -0.208379   -2.164021

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.101486    0.447728    0.155611
0.001206    0.392049    3.256029
0.25000    0.101486    1.169935    0.155611
0.001206    0.200478    5.464871
0.50000    0.101486    2.123310    0.155611
0.001206    0.016138    6.765047
0.75000    0.101486    3.077789    0.155611
0.001206    0.158685    6.697681
1.00000    0.101486    3.967731    0.155611
0.001206    0.317622    5.615027

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.152915   -4.574975   -0.128566
-4.29E-06   -0.321796   -6.433646
0.25000   -0.152915   -3.625068   -0.128566
-4.29E-06   -0.161946   -4.753014
0.50000   -0.152915   -2.728811   -0.128566
-4.29E-06   -0.014506   -4.705658
0.75000   -0.152915   -1.775272   -0.128566
-4.29E-06   -0.189042   -4.692741
1.00000   -0.152915   -1.050065   -0.128566
-4.29E-06   -0.382395   -6.307103
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   4339

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.106029    0.773221    0.213593
0.001315    0.539028    6.232984
0.25000    0.106029    1.921530    0.213593
0.001315    0.276056    9.669890
0.50000    0.106029    3.437396    0.213593
0.001315    0.026436   11.617753
0.75000    0.106029    4.862798    0.213593
0.001315    0.164781   11.493903
1.00000    0.106029    6.370026    0.213593
0.001315    0.337548    9.776508

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.197957   -7.370542   -0.140137
-6.52E-06   -0.359412   -9.722179
0.25000   -0.197957   -5.860190   -0.140137
-6.52E-06   -0.185125   -6.998445
0.50000   -0.197957   -4.435141   -0.140137
-6.52E-06   -0.020415   -6.871812
0.75000   -0.197957   -2.919015   -0.140137
-6.52E-06   -0.258717   -6.745315
1.00000   -0.197957   -1.765935   -0.140137
-6.52E-06   -0.524084   -9.314104

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.132240    6.220425    0.255974
0.001090    0.641008   13.822868
0.25000    0.132240   18.461832    0.255974
 0.001090   0.334874   45.996980
0.50000    0.132240   34.621534    0.255974
 0.001090   0.085344   59.656276
0.75000    0.132240   49.816853    0.255974
 0.001090   0.199053   48.383236
1.00000    0.132240   65.884476    0.255974
 0.001090   0.386187   18.046700

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.208540  -67.151931   -0.163068
-0.000557   -0.426228   -50.003443
0.25000   -0.208540  -51.051006   -0.163068
-0.000557   -0.223433   -21.846054
0.50000   -0.208540   -35.859454   -0.163068
-0.000557   -0.042967   -21.368877
0.75000   -0.208540   -19.696968   -0.163068
-0.000557   -0.322578   -21.455418
1.00000   -0.208540   -7.404706   -0.163068
-0.000557   -0.640618   -49.122265

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.156337    0.109430    0.256670
4.71E-06    0.644456    3.332215
0.25000    0.156337    0.117562    0.256670
4.71E-06    0.325888    3.746940
0.50000    0.156337    0.137000    0.256670
4.71E-06    0.014938    4.308282
0.75000    0.156337    0.158183    0.256670
4.71E-06    0.140258    4.973936
1.00000    0.156337    0.176777    0.256670
4.71E-06    0.279364    5.674853

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.096753   -0.930288   -0.113263
-0.001286   -0.284608   -4.353555
0.25000   -0.096753   -0.911696   -0.113263
-0.001286   -0.143951   -3.914427
0.50000   -0.096753   -0.890514   -0.113263
-0.001286   -0.010899   -3.682352
0.75000   -0.096753   -0.871058   -0.113263
-0.001286   -0.316322   -3.519991
1.00000   -0.096753   -0.862884   -0.113263
-0.001286   -0.633415   -3.387746
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   4340

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.220064   12.754964    0.375862
 4.32E-05   0.940594   17.092069
0.25000    0.220064   25.699965    0.375862
 4.32E-05   0.496249   57.506237
0.50000    0.220064   56.645794    0.375862
 4.32E-05   0.073075   81.562494
0.75000    0.220064   90.369127    0.375862
 4.32E-05   0.255340   59.738439
1.00000    0.220064  119.971186    0.375862
 4.32E-05   0.480959   20.816596

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.193821  -121.258211   -0.199976
-0.001579   -0.529848   -78.182715
0.25000   -0.193821   -91.660719   -0.199976
-0.001579   -0.281588   -32.075512
0.50000   -0.193821   -57.938656   -0.199976
-0.001579   -0.049997   -31.644459
0.75000   -0.193821   -26.965328   -0.199976
-0.001579   -0.480573   -31.401395
1.00000   -0.193821   -13.950955   -0.199976
-0.001579   -0.944143   -76.168451

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.223753    9.176595    0.463567
0.000341    1.169253   15.885068
0.25000    0.223753   18.368196    0.463567
 0.000341   0.609104   45.048705
0.50000    0.223753   40.341290    0.463567
 0.000341   0.069161   62.650863
0.75000    0.223753   64.286631    0.463567
 0.000341   0.280995   47.867493
1.00000    0.223753   85.305500    0.463567
 0.000341   0.550225   20.996210

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.264970   -86.974537   -0.230886
-0.001377   -0.609818   -59.855179
0.25000   -0.264970   -65.958830   -0.230886
-0.001377   -0.323499   -26.812246
0.50000   -0.264970   -42.014471   -0.230886
-0.001377   -0.047878   -32.634727
0.75000   -0.264970   -20.021851   -0.230886
-0.001377   -0.572369   -26.042859
1.00000   -0.264970   -10.780993   -0.230886
-0.001377   -1.146098   -57.699176

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.240014    7.652858    0.516706
0.000725    1.305161   14.592105
0.25000    0.240014   15.282034    0.516706
 0.000725   0.675835   39.030396
0.50000    0.240014   33.520051    0.516706
 0.000725   0.064629   53.908639
0.75000    0.240014   53.395000    0.516706
 0.000725   0.323244   41.953072
1.00000    0.240014   70.841062    0.516706
 0.000725   0.642263   19.969404

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.316105   -72.506310   -0.268268
-0.001148   -0.701666   -51.532887
0.25000   -0.316105   -55.062939   -0.268268
-0.001148   -0.368693   -24.078365
0.50000   -0.316105   -35.188740   -0.268268
-0.001148   -0.046062   -23.677222
0.75000   -0.316105   -16.934515   -0.268268
-0.001148   -0.632497   -23.410869
1.00000   -0.316105   -9.264455   -0.268268
-0.001148   -1.272695   -49.672000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   4341

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.057960    9.007263    0.119616
0.000149    0.301155   11.038803
0.25000    0.057960   18.081774    0.119616
 0.000149   0.167963   39.200915
0.50000    0.057960   39.774955    0.119616
 0.000149   0.046489   65.758948
0.75000    0.057960   63.415182    0.119616
 0.000149   0.102932   40.243833
1.00000    0.057960   84.166373    0.119616
 0.000149   0.186955   12.759090

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.116590   -84.771015   -0.080711
-0.000206   -0.226211   -53.111564
0.25000   -0.116590   -64.023024   -0.080711
-0.000206   -0.126061   -20.981284
0.50000   -0.116590   -40.383688   -0.080711
-0.000206   -0.031375   -20.793042
0.75000   -0.116590   -18.671229   -0.080711
-0.000206   -0.157548   -20.695815
1.00000   -0.116590   -9.548089   -0.080711
-0.000206   -0.304051   -52.148972

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.091491    8.612988    0.282151
0.000569    0.715307   12.980647
0.25000    0.091491   17.272803    0.282151
 0.000569   0.379060   40.229604
0.50000    0.091491   37.974630    0.282151
 0.000569   0.056898   56.493861
0.75000    0.091491   60.534523    0.282151
 0.000569   0.179880   42.167225
1.00000    0.091491   80.337408    0.282151
 0.000569   0.351638   16.422315

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.215856  -81.421062   -0.150493
-7.82E-05   -0.408770   -53.706430
0.25000   -0.215856  -61.621232   -0.150493
-7.82E-05   -0.222054   -22.911916
0.50000   -0.215856  -39.062189   -0.150493
-7.82E-05   -0.039257   -22.667213
0.75000   -0.215856  -18.341966   -0.150493
-7.82E-05   -0.347420   -22.509309
1.00000   -0.215856   -9.635743   -0.150493
-7.82E-05   -0.696655   -52.460458

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.190629    5.874415    0.421158
0.000517    1.067463   12.985748
0.25000    0.190629   11.502076    0.421158
 0.000517   0.553322   30.954849
0.50000    0.190629   24.955347    0.421158
 0.000517   0.055898   42.060692
0.75000    0.190629   39.616101    0.421158
 0.000517   0.262410   33.710407
1.00000    0.190629   52.485186    0.421158
 0.000517   0.528120   17.993612

COMB DL-G2-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.271249   -54.080893   -0.221860
-0.000954   -0.582478   -40.092337
0.25000   -0.271249   -41.213792   -0.221860
-0.000954   -0.306848   -19.905000
0.50000   -0.271249   -26.553592   -0.221860
-0.000954   -0.039154   -19.480801
0.75000   -0.271249   -13.088365   -0.221860
-0.000954   -0.510010   -18.976435
1.00000   -0.271249   -7.430546   -0.221860
-0.000954   -1.032638   -38.103981
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   4342

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.223285    4.938720    0.478498
0.000894    1.213118   12.098869
0.25000    0.223285    9.665028    0.478498
0.000894    0.625786   27.450513
0.50000    0.223285   20.963560    0.478498
0.000894    0.053493   37.045102
0.75000    0.223285   33.261678    0.478498
0.000894    0.323060   30.296439
1.00000    0.223285   44.084090    0.478498
0.000894    0.653729   17.362796

COMB DL-G2-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.337658   -45.664756   -0.272954
-0.000795   -0.709817   -35.413788
0.25000   -0.337658   -34.858510   -0.272954
-0.000795   -0.370466   -18.457135
0.50000   -0.337658   -22.546356   -0.272954
-0.000795   -0.031666   -18.101967
0.75000   -0.337658   -11.237784   -0.272954
-0.000795   -0.576735   -17.680442
1.00000   -0.337658   -6.486148   -0.272954
-0.000795   -1.170932   -33.745978

COMB DL-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.111522    0.039036    0.189513
0.000741    0.479689    1.866407
0.25000    0.111522    0.047167    0.189513
0.000741    0.243831    2.277647
0.50000    0.111522    0.066606    0.189513
0.000741    0.010597    2.689112
0.75000    0.111522    0.087789    0.189513
0.000741    0.171553    3.083484
1.00000    0.111522    0.106383    0.189513
0.000741    0.351730    3.473608

COMB DL-G3-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.185537   -0.468471   -0.144828
-3.48E-07   -0.368305   -2.784473
0.25000   -0.185537   -0.449880   -0.144828
-3.48E-07   -0.188088   -2.758804
0.50000   -0.185537   -0.428698   -0.144828
-3.48E-07   -0.009890   -2.763429
0.75000   -0.185537   -0.409242   -0.144828
-3.48E-07   -0.226303   -2.767275
1.00000   -0.185537   -0.401067   -0.144828
-3.48E-07   -0.462109   -2.800691

COMB DL-G3-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.164017    0.372527    0.347080
0.001209    0.879090    4.022823
0.25000    0.164017    0.640860    0.347080
0.001209    0.447451    5.497400
0.50000    0.164017    1.282325    0.347080
0.001209    0.021198    6.699629
0.75000    0.164017    1.981364    0.347080
0.001209    0.264412    7.042459
1.00000    0.164017    2.594974    0.347080
0.001209    0.542774    7.063277

COMB DL-G3-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.286257   -3.337273   -0.224116
-2.69E-06   -0.572035   -6.664502
0.25000   -0.286257   -2.723757   -0.224116
-2.69E-06   -0.293172   -5.652267
0.50000   -0.286257   -2.024744   -0.224116
-2.69E-06   -0.018191   -5.617209
0.75000   -0.286257   -1.382709   -0.224116
-2.69E-06   -0.414629   -5.585033
1.00000   -0.286257   -1.112939   -0.224116
-2.69E-06   -0.846348   -6.485879
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   4343

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.176591    0.255178    0.407289
0.001270    1.036377    6.289741
0.25000    0.176591    0.262496    0.407289
0.001270    0.529750    7.073667
0.50000    0.176591    0.279990    0.407289
0.001270    0.030626    8.111719
0.75000    0.176591    0.299055    0.407289
0.001270    0.286350    9.393745
1.00000    0.176591    0.315790    0.407289
0.001270    0.596499   10.723326

COMB DL-G3-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.349233   -1.514887   -0.248972
-0.000119   -0.642684   -7.640179
0.25000   -0.349233   -1.498155   -0.248972
-0.000119   -0.332793   -7.324230
0.50000   -0.349233   -1.479091   -0.248972
-0.000119   -0.024393   -7.178014
0.75000   -0.349233   -1.461581   -0.248972
-0.000119   -0.480576   -7.052834
1.00000   -0.349233   -1.454224   -0.248972
-0.000119   -0.987600   -6.954054

COMB DL-G3-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.222078    5.346758    0.460372
0.001054    1.166807   12.126780
0.25000    0.222078   10.469466    0.460372
 0.001054   0.603122   28.679110
0.50000    0.222078   22.715617    0.460372
 0.001054   0.054060   38.917748
0.75000    0.222078   36.060906    0.460372
 0.001054   0.337632   31.412474
1.00000    0.222078   47.775289    0.460372
 0.001054   0.683889   17.188123

COMB DL-G3-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.366897   -49.258844   -0.285298
-0.000626   -0.741976   -37.313402
0.25000   -0.366897   -37.546269   -0.285298
-0.000626   -0.387146   -18.856918
0.50000   -0.366897   -24.201483   -0.285298
-0.000626   -0.039632   -18.556471
0.75000   -0.366897   -11.944449   -0.285298
-0.000626   -0.555784   -18.348535
1.00000   -0.366897   -6.794289   -0.285298
-0.000626   -1.127374   -35.840215

COMB      DB ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.132240   10.990890    0.284449
 0.001315   0.714435   18.314474
0.25000    0.132240   33.427451    0.284449
 0.001315   0.372263   76.756679
0.50000    0.132240   63.045626    0.284449
 0.001315   0.068097  100.924321
0.75000    0.132240   90.896241    0.284449
 0.001315   0.211451   78.987269
1.00000    0.132240  120.345650    0.284449
 0.001315   0.409482   21.747537

COMB      DB ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.208540  -121.486880   -0.172288
-0.001606   -0.448843   -84.713644
0.25000   -0.208540   -91.976435   -0.172288
-0.001606   -0.234597   -33.192407
0.50000   -0.208540   -64.132724   -0.172288
-0.001606   -0.055418   -32.403464
0.75000   -0.208540   -34.509446   -0.172288
-0.001606   -0.355857   -32.645393
1.00000   -0.208540   -11.979675   -0.172288
-0.001606   -0.709246   -83.437566
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   4344

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.240014   12.754964    0.516706
 0.001270   1.305161   17.092069
0.25000    0.240014   25.699965    0.516706
 0.001270   0.675835   57.606237
0.50000    0.240014   56.645794    0.516706
 0.001270   0.073075   81.562494
0.75000    0.240014   90.369127    0.516706
 0.001270   0.337632   59.738439
1.00000    0.240014  119.971186    0.516706
 0.001270   0.683889   20.996210

COMB      DL ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.366897  -121.258211   -0.285298
-0.001579   -0.741976   -78.182715
0.25000   -0.366897   -91.660719   -0.285298
-0.001579   -0.387146   -32.075512
0.50000   -0.366897   -57.938656   -0.285298
-0.001579   -0.049997   -31.644459
0.75000   -0.366897   -26.965328   -0.285298
-0.001579   -0.632497   -31.401395
1.00000   -0.366897   -13.950955   -0.285298
-0.001579   -1.272695   -76.168451

COMB      CAR ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.240014   12.754964    0.516706
 0.001315   1.305161   18.314474
0.25000    0.240014   33.427451    0.516706
 0.001315   0.675835   76.756679
0.50000    0.240014   63.045626    0.516706
 0.001315   0.073075  100.924321
0.75000    0.240014   90.896241    0.516706
 0.001315   0.337632   78.987269
1.00000    0.240014  120.345650    0.516706
 0.001315   0.683889   21.747537

COMB      CAR ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.366897  -121.486880   -0.285298
-0.001606   -0.741976   -84.713644
0.25000   -0.366897   -91.976435   -0.285298
-0.001606   -0.387146   -33.192407
0.50000   -0.366897   -64.132724   -0.285298
-0.001606   -0.055418   -32.403464
0.75000   -0.366897   -34.509446   -0.285298
-0.001606   -0.632497   -32.645393
1.00000   -0.366897   -13.950955   -0.285298
-0.001606   -1.272695   -83.437566

COMB      DESIGN ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.240014   12.754964    0.516706
 0.001315   1.305161   18.314474
0.25000    0.240014   33.427451    0.516706
 0.001315   0.675835   76.756679
0.50000    0.240014   63.045626    0.516706
 0.001315   0.073075  100.924321
0.75000    0.240014   90.896241    0.516706
 0.001315   0.337632   78.987269
1.00000    0.240014  120.345650    0.516706
 0.001315   0.683889   21.747537

COMB      DESIGN ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.366897  -121.486880   -0.285298
-0.001606   -0.741976   -84.713644
0.25000   -0.366897   -91.976435   -0.285298
-0.001606   -0.387146   -33.192407
```

```
 0.50000    -0.366897   -64.132724    -0.285298
-0.001606    -0.055418   -32.403464
 0.75000    -0.366897   -34.509446    -0.285298
-0.001606    -0.632497   -32.645393
 1.00000    -0.366897   -13.950955    -0.285298
-0.001606    -1.272695   -83.437566
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    4345

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      421 ================== LENGTH =     4.972951

 COMB DB-G1-1 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.116073        0.127573        0.112644
4.55E-06     0.290863        5.369446
 0.25000     0.116073        0.151656        0.112644
4.55E-06     0.151148        5.682031
 0.50000     0.116073        0.183433        0.112644
4.55E-06     0.019219        6.129804
 0.75000     0.116073        0.213308        0.112644
4.55E-06     0.114275        6.709808
 1.00000     0.116073        0.244921        0.112644
4.55E-06     0.227664        7.331106

 COMB DB-G1-1 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.047812       -0.833687       -0.091218
-0.001094    -0.226029       -2.665116
 0.25000    -0.047812       -0.802038       -0.091218
-0.001094    -0.112625       -2.533512
 0.50000    -0.047812       -0.772165       -0.091218
-0.001094    -0.007146       -2.455983
 0.75000    -0.047812       -0.740388       -0.091218
-0.001094     0.130036       -2.379703
 1.00000    -0.047812       -0.716244       -0.091218
-0.001094    -0.269643       -2.357676

 COMB DB-G1-2 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.148188        11.047189       0.190495
 5.37E-05     0.497399        21.712072
 0.25000     0.148188        33.492689       0.190495
 5.37E-05     0.270759        80.369475
 0.50000     0.148188        63.108084       0.190495
 5.37E-05     0.078395       104.256508
 0.75000     0.148188        90.951936       0.190495
 5.37E-05     0.179839        82.267849
 1.00000     0.148188       120.415092       0.190495
 5.37E-05     0.329331        24.995808

 COMB DB-G1-2 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.144055      -121.465511      -0.137895
-0.001433    -0.365703       -83.440708
 0.25000    -0.144055       -91.968472      -0.137895
-0.001433    -0.194257       -32.154843
 0.50000    -0.144055       -64.126680      -0.137895
-0.001433    -0.051771       -31.266674
 0.75000    -0.144055       -34.510387      -0.137895
-0.001433    -0.244227       -31.542295
 1.00000    -0.144055       -12.008260      -0.137895
-0.001433    -0.480810       -82.382119

 COMB DB-G1-3 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.143489        7.687323        0.229168
 0.000361     0.599037       20.930044
 0.25000     0.143489       22.968085       0.229168
 0.000361     0.321304       61.061482
 0.50000     0.143489       43.130067       0.229168
 0.000361     0.075437       77.741469
 0.75000     0.143489       62.085995       0.229168
 0.000361     0.182242       63.427430
 1.00000     0.143489       82.144334       0.229168
 0.000361     0.344338       25.234792

 COMB DB-G1-3 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.206928       -83.481327      -0.142294
-0.001424    -0.369333       -59.649316
 0.25000    -0.206928       -63.399920      -0.142294
-0.001424    -0.192428       -24.677858
 0.50000    -0.206928       -44.445395      -0.142294
-0.001424    -0.043689       -24.016849
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    4346

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P              V2              V3
        T          M2             M3
 0.75000    -0.206928       -24.282801      -0.142294
-0.001424    -0.277810       -24.148142
 1.00000    -0.206928        -8.963488      -0.142294
-0.001424    -0.562363       -58.703240

 COMB DB-G1-4 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.159093        6.407537        0.239494
 0.000685     0.622993       19.360401
 0.25000     0.159093       19.087319        0.239494
 0.000685     0.331557       52.809695
 0.50000     0.159093       35.817474        0.239494
 0.000685     0.071290       66.859451
 0.75000     0.159093       51.546861        0.239494
 0.000685     0.207454       55.230505
 1.00000     0.159093       68.191015        0.239494
 0.000685     0.398672       23.844562

 COMB DB-G1-4 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.250122       -69.545704      -0.163680
-0.001186    -0.420329       -50.901618
 0.25000    -0.250122       -52.882450      -0.163680
-0.001186    -0.216828       -21.870868
 0.50000    -0.250122       -37.154227      -0.163680
-0.001186    -0.040780       -21.310491
 0.75000    -0.250122       -20.423564      -0.163680
-0.001186    -0.289017       -21.407555
 1.00000    -0.250122        -7.711794      -0.163680
-0.001186    -0.586427       -50.069054

 COMB DB-G2-1 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.023403        9.247727        0.081475
 0.000168     0.216161       15.080662
 0.25000     0.023403       28.032588        0.081475
 0.000168     0.123208       63.990908
 0.50000     0.023403       52.818004        0.081475
 0.000168     0.054449       83.701652
 0.75000     0.023403       76.120799        0.081475
 0.000168     0.050476       64.921570
 1.00000     0.023403      100.778805        0.081475
 0.000168     0.078098       16.602903

 COMB DB-G2-1 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.115190     -101.289909      -0.037082
-0.000281    -0.114863       -68.261235
 0.25000    -0.115190       -76.603546      -0.037082
-0.000281    -0.068865       -25.396012
 0.50000    -0.115190       -53.302475      -0.037082
-0.000281    -0.039275       -24.709118
 0.75000    -0.115190       -28.516307      -0.037082
-0.000281    -0.113273       -24.996212
 1.00000    -0.115190        -9.684055      -0.037082
-0.000281    -0.214467       -67.600987

 COMB DB-G2-2 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.051886        8.646116        0.146856
 0.000582     0.387752       17.910843
 0.25000     0.051886       26.130487        0.146856
 0.000582     0.213151       63.576453
 0.50000     0.051886       49.199990        0.146856
 0.000582     0.065720       82.243159
 0.75000     0.051886       70.889514        0.146856
 0.000582     0.095528       65.221218
 1.00000     0.051886       93.840427        0.146856
 0.000582     0.169272       20.787202

 COMB DB-G2-2 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.210803       -94.750680      -0.072945
-0.000309    -0.200418       -65.619356
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    4347

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 REL DIST          P              V2              V3
        T          M2             M3
 0.25000    -0.210803       -71.773373      -0.072945
-0.000309    -0.109727       -25.692699
 0.50000    -0.210803       -50.085453      -0.072945
-0.000309    -0.042951       -25.024334
 0.75000    -0.210803       -27.015251      -0.072945
-0.000309     0.184562       -25.262526
 1.00000    -0.210803        -9.486770      -0.072945
-0.000309    -0.366882       -64.888714

 COMB DB-G2-3 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.119582        6.411894        0.210756
 0.000528     0.552469       19.238407
 0.25000     0.119582       18.788228        0.210756
 0.000528     0.296249       51.716777
 0.50000     0.119582       35.118004        0.210756
 0.000528     0.068842       65.308622
 0.75000     0.119582       50.470961        0.210756
 0.000528     0.159232       53.925649
 1.00000     0.119582       66.716793        0.210756
 0.000528     0.302514       23.374157

 COMB DB-G2-3 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.217347       -68.011017      -0.124872
-0.001092    -0.323355       -49.287045
 0.25000    -0.217347       -51.746501      -0.124872
-0.001092    -0.168078       -20.953856
 0.50000    -0.217347       -36.394681      -0.124872
-0.001092    -0.038570       -20.409697
 0.75000    -0.217347       -20.064409      -0.124872
-0.001092    -0.251793       -20.507245
 1.00000    -0.217347        -7.656852      -0.124872
-0.001092    -0.513423       -48.485635

 COMB DB-G2-4 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.137459        5.367131        0.225409
 0.000825     0.584803       17.706827
 0.25000     0.137459       15.734930        0.225409
 0.000825     0.309363       45.126664
 0.50000     0.137459       29.414573        0.225409
 0.000825     0.065335       56.719815
 0.75000     0.137459       42.275923        0.225409
 0.000825     0.194272       47.393271
 1.00000     0.137459       55.885245        0.225409
 0.000825     0.375710       22.007484

 COMB DB-G2-4 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.266720       -57.167995      -0.153979
-0.000911    -0.394109       -42.626178
 0.25000    -0.266720       -43.540021      -0.153979
-0.000911    -0.202626       -18.884096
 0.50000    -0.266720       -30.682623      -0.153979
-0.000911    -0.036743       -18.421209
 0.75000    -0.266720       -17.002565      -0.153979
-0.000911    -0.271100       -18.495887
 1.00000    -0.266720        -6.608610      -0.153979
-0.000911    -0.551055       -41.926670

 COMB DB-G3-1 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.069727        0.020433        0.080236
 0.000605     0.201258        2.441989
 0.25000     0.069727        0.044516        0.080236
 0.000605     0.101536        2.794335
 0.50000     0.069727        0.076292        0.080236
 0.000605     0.011772        3.130588
 0.75000     0.069727        0.106168        0.080236
 0.000605     0.059096        3.435738
 1.00000     0.069727        0.137780        0.080236
 0.000605     0.196519        3.715226
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    4348

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-1 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.140215       -0.436292       -0.079331
-3.14E-06    -0.198002       -2.154202
 0.25000    -0.140215       -0.404643       -0.079331
-3.14E-06    -0.099365       -2.030585
 0.50000    -0.140215       -0.374769       -0.079331
-3.14E-06    -0.006870       -2.081044
 0.75000    -0.140215       -0.342992       -0.079331
-3.14E-06    -0.098041       -2.072779
 1.00000    -0.140215       -0.318848       -0.079331
-3.14E-06    -0.197794       -2.119073

 COMB DB-G3-2 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.118449        0.429816        0.139172
 0.001040     0.354456        5.581573
 0.25000     0.118449        1.152311        0.139172
 0.001040     0.181948        7.848209
 0.50000     0.118449        2.105596        0.139172
 0.001040     0.024478        9.154060
 0.75000     0.118449        3.001857        0.139172
 0.001040     0.154875        9.071404
 1.00000     0.118449        3.950242        0.139172
 0.001040     0.310102        7.972386

 COMB DB-G3-2 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.228997       -4.571014       -0.125399
-3.28E-05    -0.313793       -6.291911
 0.25000    -0.228997       -3.621539       -0.125399
-3.28E-05    -0.157864       -4.617310
 0.50000    -0.228997       -2.725343       -0.125399
-3.28E-05    -0.013410       -4.564952
 0.75000    -0.228997       -1.772039       -0.125399
-3.28E-05    -0.165961       -4.550056
 1.00000    -0.228997       -1.047712       -0.125399
-3.28E-05    -0.338835       -6.163051

 COMB DB-G3-3 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.106124        0.786146        0.184338
 0.001151     0.474654        9.734066
 0.25000     0.106124        1.934912        0.184338
 0.001151     0.246236       13.195519
 0.50000     0.106124        3.450636        0.184338
 0.001151     0.038238       15.137657
 0.75000     0.106124        4.875691        0.184338
 0.001151     0.158713       14.999413
 1.00000     0.106124        6.383623        0.184338
 0.001151     0.317466       13.260867

 COMB DB-G3-3 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.290672       -7.363060       -0.128572
-0.000223    -0.322389       -9.294132
 0.25000    -0.290672       -5.853394       -0.128572
-0.000223    -0.162533       -6.615673
 0.50000    -0.290672       -4.428444       -0.128572
-0.000223    -0.018586       -6.516581
 0.75000    -0.290672       -2.912674       -0.128572
-0.000223    -0.215321       -6.477052
 1.00000    -0.290672       -1.761009       -0.128572
-0.000223    -0.444262       -9.025664

 COMB DB-G3-4 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.130766        6.254737        0.220703
 0.001017     0.571783       18.000319
 0.25000     0.130766       12.501041        0.220703
 0.001017     0.303027       50.303174
 0.50000     0.130766       34.659206        0.220703
 0.001017     0.067192       63.809344
 0.75000     0.130766       49.850836        0.220703
 0.001017     0.193005       52.496592
 1.00000     0.130766       65.925959        0.220703
 0.001017     0.371004       22.127034
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    4349

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DB-G3-4 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.306132       -67.135381      -0.152706
-0.000680    -0.393257       -49.106347
 0.25000    -0.306132       -51.041772      -0.152706
-0.000680    -0.203389       -21.097972
 0.50000    -0.306132       -35.851266      -0.152706
-0.000680    -0.039898       -20.586624
 0.75000    -0.306132       -19.692591      -0.152706
-0.000680    -0.268907       -20.710240
 1.00000    -0.306132        -7.415411      -0.152706
-0.000680    -0.543031       -48.421938

 COMB DL-G1-1 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.240924        0.122395        0.242699
4.52E-06     0.613244        5.657681
 0.25000     0.240924        0.130539        0.242699
4.52E-06     0.311609        6.176811
 0.50000     0.240924        0.149977        0.242699
4.52E-06     0.023176        6.737756
 0.75000     0.240924        0.171156        0.242699
4.52E-06     0.147289        7.333588
 1.00000     0.240924        0.189747        0.242699
4.52E-06     0.292732        7.959905

 COMB DL-G1-1 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.066101       -0.838769       -0.116953
-0.001048    -0.288162       -3.420839
 0.25000    -0.066101       -0.820176       -0.116953
-0.001048    -0.142625       -3.288706
 0.50000    -0.066101       -0.798995       -0.116953
-0.001048    -0.009275       -3.184271
 0.75000    -0.066101       -0.779545       -0.116953
-0.001048    -0.292123       -3.080090
 1.00000    -0.066101       -0.771385       -0.116953
-0.001048    -0.593795       -3.004119

 COMB DL-G1-2 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.279244        12.790657       0.342990
 4.07E-05     0.872158       20.795676
 0.25000     0.279244        25.756464       0.342990
 4.07E-05     0.465110       61.640576
 0.50000     0.279244        56.701342       0.342990
 4.07E-05     0.086512       85.485547
 0.75000     0.279244        90.419323       0.342990
 4.07E-05     0.256764       63.484010
 1.00000     0.279244       120.015495       0.342990
 4.07E-05     0.477705       24.420858

 COMB DL-G1-2 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.213756     -121.164452      -0.193118
-0.001328    -0.504382       -76.207103
 0.25000    -0.213756       -91.563223      -0.193118
-0.001328    -0.264385       -30.772914
 0.50000    -0.213756       -57.843623      -0.193118
-0.001328    -0.045625       -30.258046
 0.75000    -0.213756       -26.878939      -0.193118
-0.001328    -0.431479       -29.991841
 1.00000    -0.213756       -13.888311      -0.193118
-0.001328    -0.854358       -74.770798

 COMB DL-G1-3 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.270714        9.218270        0.401799
 0.000293     1.033380       20.945028
 0.25000     0.270714       18.424644        0.401799
 0.000293     0.547412       50.408979
 0.50000     0.270714       40.397062        0.401799
 0.000293     0.087557       67.882316
 0.75000     0.270714       64.338523        0.401799
 0.000293     0.259100       52.898322
 1.00000     0.270714       85.353292        0.401799
 0.000293     0.500824       25.851123
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    4350

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G1-3 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.292382       -86.811907      -0.205098
-0.001329    -0.534417       -57.717413
 0.25000    -0.292382       -65.793547      -0.205098
-0.001329    -0.279586       -25.387452
 0.50000    -0.292382       -41.850936      -0.205098
-0.001329    -0.043450       -24.952359
 0.75000    -0.292382       -19.864498      -0.205098
-0.001329    -0.483265       -24.693720
 1.00000    -0.292382       -10.640456      -0.205098
-0.001329    -0.980163       -56.419516

 COMB DL-G1-4 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.294132        7.680229        0.444549
 0.000586     1.142625       19.893406
 0.25000     0.294132       15.321666        0.444549
 0.000586     0.601483       44.580153
 0.50000     0.294132       33.559123        0.444549
 0.000586     0.084081       59.331596
 0.75000     0.294132       53.430917        0.444549
 0.000586     0.291312       47.187118
 1.00000     0.294132       70.873510        0.444549
 0.000586     0.572406       25.040476

 COMB DL-G1-4 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.357762       -72.349758      -0.235036
-0.001107    -0.609014       -49.667176
 0.25000    -0.357762       -54.904184      -0.235036
-0.001107    -0.316938       -22.821089
 0.50000    -0.357762       -35.031436      -0.235036
-0.001107    -0.041855       -22.448276
 0.75000    -0.357762       -16.782342      -0.235036
-0.001107    -0.530229       -22.221898
 1.00000    -0.357762        -9.126240      -0.235036
-0.001107    -1.080660       -48.543124

 COMB DL-G2-1 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.036202        9.029997        0.094794
 0.000141     0.249001       12.745686
 0.25000     0.036202       18.119093        0.094794
 0.000141     0.144893       41.079539
 0.50000     0.036202       39.811608        0.094794
 0.000141     0.052951       57.509269
 0.75000     0.036202       63.448082        0.094794
 0.000141     0.091314       41.920030
 1.00000     0.036202       84.195147        0.094794
 0.000141     0.160467       14.356545

 COMB DL-G2-1 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.182500       -84.731138      -0.066626
-0.000235    -0.187149       -52.144252
 0.25000    -0.182500       -63.980528      -0.066626
-0.000235    -0.104742       -20.350354
 0.50000    -0.182500       -40.342918      -0.066626
-0.000235    -0.029133       -20.045162
 0.75000    -0.182500       -18.636562      -0.066626
-0.000235    -0.122059       -19.914131
 1.00000    -0.182500        -9.530024      -0.066626
-0.000235    -0.237297       -51.359965

 COMB DL-G2-2 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.087277        8.638686        0.223675
 0.000483     0.587168       16.367448
 0.25000     0.087277       17.312420        0.223675
 0.000483     0.321463       43.808869
 0.50000     0.087277       38.013610        0.223675
 0.000483     0.069692       59.932394
 0.75000     0.087277       60.569923        0.223675
 0.000483     0.142142       45.462561
 1.00000     0.087277       80.368869        0.223675
 0.000483     0.273608       19.599855
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<              MOVING              LOAD              >
                                    4351

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

 COMB DL-G2-2 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.287911       -81.328353      -0.115584
-0.000287    -0.316933       -52.436051
 0.25000    -0.287911       -61.526023      -0.115584
-0.000287    -0.173209       -22.059845
 0.50000    -0.287911       -38.968627      -0.115584
-0.000287    -0.036218       -21.733418
 0.75000    -0.287911       -18.254228      -0.115584
-0.000287    -0.264103       -21.573110
 1.00000    -0.287911        -9.563849      -0.115584
-0.000287    -0.539402       -51.546612

 COMB DL-G2-3 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.198035        5.914146        0.350088
 0.000439     0.908280       17.934589
 0.25000     0.198035       11.550851        0.350088
 0.000439     0.481494       36.120507
 0.50000     0.198035       25.003709        0.350088
 0.000439     0.073906       47.108368
 0.75000     0.198035       39.662135        0.350088
 0.000439     0.227509       38.170721
 1.00000     0.198035       52.528662        0.350088
 0.000439     0.450322       22.682987

 COMB DL-G2-3 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.318086       -53.900528      -0.185767
-0.001011    -0.483856       -38.099689
 0.25000    -0.318086       -41.031802      -0.185767
-0.001011    -0.253463       -18.260079
 0.50000    -0.318086       -26.372672      -0.185767
-0.001011    -0.035286       -17.948555
 0.75000    -0.318086       -12.911230      -0.185767
-0.001011    -0.410087       -17.744759
 1.00000    -0.318086        -7.263708      -0.185767
-0.001011    -0.843113       -37.124710

 COMB DL-G2-4 ------------------ MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.224832        4.960682        0.399649
 0.000735     1.033594       17.280950
 0.25000     0.224832        9.694586        0.399649
 0.000735     0.543552       32.807682
 0.50000     0.224832       20.992771        0.399649
 0.000735     0.072281       42.290742
 0.75000     0.224832       33.303435        0.399649
 0.000735     0.278168       35.369487
 1.00000     0.224832       44.109198        0.399649
 0.000735     0.557361       22.282102

 COMB DL-G2-4 ------------------ MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.408154       -45.500697      -0.229961
-0.000844    -0.594914       -33.718410
 0.25000    -0.408154       -34.693088      -0.229961
-0.000844    -0.309453       -17.051110
```

0.50000 -0.408154 -22.381833 -0.229961
-0.000844 -0.035435 -16.784293
0.75000 -0.408154 -11.076439 -0.229961
-0.000844 -0.467235 -16.607878
1.00000 -0.408154 6.333450 -0.229961
-0.000844 -0.962364 -32.878613

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.099917	0.019971	0.160658
0.000589	0.412610	3.425516	
0.25000	0.099917	0.028115	0.160658
0.000589	0.212584	3.830575	
0.50000	0.099917	0.047553	0.160658
0.000589	0.016082	4.229575	
0.75000	0.099917	0.068732	0.160658
0.000589	0.146458	4.608805	
1.00000	0.099917	0.087323	0.160658
0.000589	0.300934	4.981488	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4352
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251370	-0.451234	-0.124149
-2.76E-06	-0.316318	-2.760944	
0.25000	-0.251370	-0.432640	-0.124149
-2.76E-06	-0.161590	-2.726046	
0.50000	-0.251370	-0.411460	-0.124149
-2.76E-06	-0.009139	-2.719395	
0.75000	-0.251370	-0.392009	-0.124149
-2.76E-06	-0.185886	-2.712964	
1.00000	-0.251370	-0.383850	-0.124149
-2.76E-06	-0.385978	-2.734504	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.187737	0.350853	0.292511
0.000972	0.752708	6.975730	
0.25000	0.187737	0.619616	0.292511
0.000972	0.389265	8.454861	
0.50000	0.187737	1.261062	0.292511
0.000972	0.031705	9.611819	
0.75000	0.187737	1.959990	0.292511
0.000972	0.223267	9.900077	
1.00000	0.187737	2.573478	0.292511
0.000972	0.458662	9.876467	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.367290	-3.283957	-0.189683
-2.55E-05	-0.484986	-6.426519	
0.25000	-0.367290	-2.670363	-0.189683
-2.55E-05	-0.249052	-5.458286	
0.50000	-0.367290	-1.971402	-0.189683
-2.55E-05	-0.016740	-5.421220	
0.75000	-0.367290	-1.329547	-0.189683
-2.55E-05	-0.337967	-5.388165	
1.00000	-0.367290	-1.060268	-0.189683
-2.55E-05	-0.701719	-6.272965	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.168099	0.253959	0.329794
0.001041	0.858179	10.624156	
0.25000	0.168099	0.261289	0.329794
0.001041	0.447763	11.453816	
0.50000	0.168099	0.278783	0.329794
0.001041	0.046409	12.408799	
0.75000	0.168099	0.297844	0.329794
0.001041	0.229375	13.588313	
1.00000	0.168099	0.314576	0.329794
0.001041	0.476703	14.817974	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.450811	-1.390217	-0.199012
-0.000215	-0.513393	-6.888763	
0.25000	-0.450811	-1.373483	-0.199012
-0.000215	-0.265544	-6.792692	
0.50000	-0.450811	-1.354420	-0.199012
-0.000215	-0.022143	-6.721906	
0.75000	-0.450811	-1.336915	-0.199012
-0.000215	-0.372209	-6.651060	
1.00000	-0.450811	-1.329571	-0.199012
-0.000215	-0.781643	-6.605090	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.207162	5.362642	0.380552
0.000930	0.986754	17.101318	
0.25000	0.207162	10.493583	0.380552
0.000930	0.513175	33.812355	
0.50000	0.207162	22.739357	0.380552
0.000930	0.072155	43.935364	
0.75000	0.207162	36.082528	0.380552
0.000930	0.286050	36.271435	
1.00000	0.207162	47.794581	0.380552
0.000930	0.573695	21.904249	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4353
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.479467	-49.113316	-0.237527
-0.000627	-0.617130	-35.792271	
0.25000	-0.479467	-37.399262	-0.237527
-0.000627	-0.321779	-17.869382	
0.50000	-0.479467	-24.055450	-0.237527
-0.000627	-0.036314	-17.608656	
0.75000	-0.479467	-11.901652	-0.237527
-0.000627	-0.443424	-17.344628	
1.00000	-0.479467	-6.661074	-0.237527
-0.000627	-0.914313	-34.935641	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.159093	11.047189	0.239494
0.001151	0.622693	21.712072	
0.25000	0.159093	33.492689	0.239494
0.001151	0.331557	80.369475	
0.50000	0.159093	63.108084	0.239494
0.001151	0.078395	104.256508	
0.75000	0.159093	90.951936	0.239494
0.001151	0.207454	82.267849	
1.00000	0.159093	120.415092	0.239494
0.001151	0.398672	25.234792	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.306132	-121.465511	-0.163680
-0.001433	-0.420329	-83.440708	
0.25000	-0.306132	-91.968472	-0.163680
-0.001433	-0.216828	-32.154843	
0.50000 -0.306132 -64.126680 -0.163680
-0.001433 -0.051771 -31.266674
0.75000 -0.306132 -34.510387 -0.163680
-0.001433 -0.289017 -31.542295
1.00000 -0.306132 -12.008260 -0.163680
-0.001433 -0.586427 -82.382119

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294132	12.790657	0.444549
0.001041	1.142625	20.945028	
0.25000	0.294132	25.756464	0.444549
0.001041	0.601483	61.640576	
0.50000	0.294132	56.701342	0.444549
0.001041	0.087557	85.485547	
0.75000	0.294132	90.419323	0.444549
0.001041	0.291312	63.484010	
1.00000	0.294132	120.015495	0.444549
0.001041	0.573695	25.851123	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.479467	-121.164452	-0.237527
-0.001329	-0.617130	-76.207103	
0.25000	-0.479467	-91.563223	-0.237527
-0.001329	-0.321779	-30.772914	
0.50000	-0.479467	-57.843623	-0.237527
-0.001329	-0.045825	-30.258046	
0.75000	-0.479467	-26.879999	-0.237527
-0.001329	-0.530229	-29.991841	
1.00000	-0.479467	-13.888311	-0.237527
-0.001329	-1.080660	-74.770798	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294132	12.790657	0.444549
0.001151	1.142625	21.712072	
0.25000	0.294132	33.492689	0.444549
0.001151	0.601483	80.369475	
0.50000	0.294132	63.108084	0.444549
0.001151	0.087557	104.256508	
0.75000	0.294132	90.951936	0.444549
0.001151	0.291312	82.267849	
1.00000	0.294132	120.415092	0.444549
0.001151	0.573695	25.851123	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4354
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.479467	-121.465511	-0.237527
-0.001433	-0.617130	-83.440708	
0.25000	-0.479467	-91.968472	-0.237527
-0.001433	-0.321779	-32.154843	
0.50000	-0.479467	-64.126680	-0.237527
-0.001433	-0.051771	-31.266674	
0.75000	-0.479467	-34.510387	-0.237527
-0.001433	-0.530229	-31.542295	
1.00000	-0.479467	-13.888311	-0.237527
-0.001433	-1.080660	-82.382119	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294132	12.790657	0.444549
0.001151	1.142625	21.712072	
0.25000	0.294132	33.492689	0.444549
0.001151	0.601483	80.369475	
0.50000	0.294132	63.108084	0.444549
0.001151	0.087557	104.256508	
0.75000	0.294132	90.951936	0.444549
0.001151	0.291312	82.267849	
1.00000	0.294132	120.415092	0.444549
0.001151	0.573695	25.851123	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.479467	-121.465511	-0.237527
-0.001433	-0.617130	-83.440708	
0.25000	-0.479467	-91.968472	-0.237527
-0.001433	-0.321779	-32.154843	
0.50000	-0.479467	-64.126680	-0.237527
-0.001433	-0.051771	-31.266674	
0.75000	-0.479467	-34.510387	-0.237527
-0.001433	-0.530229	-31.542295	
1.00000	-0.479467	-13.888311	-0.237527
-0.001433	-1.080660	-82.382119	

ELEM 422 ========== LENGTH = 4.972416

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.174113	0.268505	0.094491
0.000265	0.234980	7.309941	
0.25000	0.174113	0.292598	0.094491
0.000265	0.122078	7.409913	
0.50000	0.174113	0.324372	0.094491
0.000265	0.023675	7.599941	
0.75000	0.174113	0.354246	0.094491
0.000265	0.119482	7.943531	
1.00000	0.174113	0.385859	0.094491
0.000265	0.232163	8.353260	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.037354	-0.691433	-0.093065
-0.000874	-0.230647	-2.363398	
0.25000	-0.037354	-0.659803	-0.093065
-0.000874	-0.114966	-2.203115	
0.50000	-0.037354	-0.629931	-0.093065
-0.000874	-0.006099	-2.099724	
0.75000	-0.037354	-0.598156	-0.093065
-0.000874	-0.117461	-1.991756	
1.00000	-0.037354	-0.574046	-0.093065
-0.000874	-0.234906	-1.941054	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209384	11.291451	0.150921
0.000340	0.392883	24.963740	
0.25000	0.209384	33.746186	0.150921
0.000340	0.217940	83.344080	
0.50000	0.209384	63.360378	0.150921
0.000340	0.086244	106.734832	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4355
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.209384	91.202043	0.150921
0.000340	0.189613	84.365365	
1.00000	0.209384	120.666011	0.150921
0.000340	0.345902	26.670071	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.188940	-121.202109	-0.139460
-0.001085	-0.366943	-82.393925	
0.25000	-0.188940	-91.723077	-0.139460
-0.001085	-0.193606	-31.234261	
0.50000	-0.188940	-63.881906	-0.139460
-0.001085	-0.048700	-30.302049	
0.75000	-0.188940	-34.267538	-0.139460
-0.001085	-0.202050	-30.602496	
1.00000	-0.188940	-11.797656	-0.139460
-0.001085	-0.386146	-81.468133	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197546	8.000358	0.169160
0.000616	0.446277	25.195077	
0.25000	0.197546	23.287407	0.169160
0.000616	0.246795	64.923645	
0.50000	0.197546	43.448571	0.169160
0.000616	0.086097	81.000280	
0.75000	0.197546	62.403009	0.169160
0.000616	0.187223	66.175055	
1.00000	0.197546	82.461901	0.169160
0.000616	0.352348	27.468803	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.232649	-83.151309	-0.142157
-0.001219	-0.367781	-58.710299	
0.25000	-0.232649	-63.082251	-0.142157
-0.001219	-0.191047	-23.774385	
0.50000	-0.232649	-44.128149	-0.142157
-0.001219	-0.040529	-23.033018	
0.75000	-0.232649	-23.966865	-0.142157
-0.001219	-0.207540	-23.130856	
1.00000	-0.232649	-8.669505	-0.142157
-0.001219	-0.415223	-57.653184	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.218880	6.700507	0.184421
0.000800	0.480536	23.803929	
0.25000	0.218880	19.385505	0.184421
0.000800	0.260275	56.810389	
0.50000	0.218880	36.114981	0.184421
0.000800	0.082730	70.251583	
0.75000	0.218880	51.843132	0.184421
0.000800	0.210369	58.099291	
1.00000	0.218880	68.487744	0.184421
0.000800	0.402818	26.189866	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.292800	-69.202580	-0.162551
-0.001045	-0.416436	-50.073257	
0.25000	-0.292800	-52.549457	-0.162551
-0.001045	-0.214367	-21.036116	
0.50000	-0.292800	-36.821585	-0.162551
-0.001045	-0.037594	-20.373274	
0.75000	-0.292800	-20.092009	-0.162551
-0.001045	-0.226256	-20.406801	
1.00000	-0.292800	-7.398455	-0.162551
-0.001045	-0.453380	-49.005331	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.017905	9.362005	0.054671
0.000185	0.157496	16.590917	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4356
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.017905	28.154595	0.054671
0.000185	0.094461	65.399767	
0.50000	0.017905	52.939004	0.054671
0.000185	0.058383	84.867516	
0.75000	0.017905	76.239969	0.054671
0.000185	0.057692	65.924805	
1.00000	0.017905	100.898654	0.054671
0.000185	0.086135	17.369632	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.177991	-101.157788	-0.034930
-0.000208	-0.103806	-67.604744	
0.25000	-0.177991	-76.486495	-0.034930
-0.000208	-0.060348	-24.856303	
0.50000	-0.177991	-53.185945	-0.034930
-0.000208	-0.037297	-24.143712	
0.75000	-0.177991	-28.401388	-0.034930
-0.000208	-0.073838	-24.462670	
1.00000	-0.177991	-9.596121	-0.034930
-0.000208	-0.138737	-67.100096	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.066894	8.845858	0.098576
0.000528	0.274373	20.763626	
0.25000	0.066894	26.337422	0.098576
0.000528	0.156613	66.183609	
0.50000	0.066894	49.405988	0.098576
0.000528	0.073360	84.427066	
0.75000	0.066894	71.093809	0.098576
0.000528	0.093074	67.083350	
1.00000	0.066894	94.045354	0.098576
0.000528	0.171936	22.292424	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.263135	-94.519972	-0.070101
-0.000373	-0.191783	-64.890287	
0.25000	-0.263135	-71.556692	-0.070101
-0.000373	-0.104631	-25.027479	
0.50000	-0.263135	-49.869256	-0.070101
-0.000373	-0.040387	-24.290385	
0.75000	-0.263135	-26.805533	-0.070101
-0.000373	-0.119457	-24.513435	
1.00000	-0.263135	-9.297190	-0.070101
-0.000373	-0.239042	-64.125213	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171066	6.713895	0.149275
0.000689	0.395913	23.337954	
0.25000	0.171066	19.095320	0.149275
0.000689	0.220738	55.403664	
0.50000	0.171066	35.424433	0.149275
0.000689	0.079425	68.449884	
0.75000	0.171066	50.776184	0.149275
0.000689	0.162607	56.589811	
1.00000	0.171066	67.022464	0.149275
0.000689	0.307527	25.528088	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267794	-67.690870	-0.124150
-0.001012	-0.320470	-48.488347	
0.25000	-0.267794	-51.436284	-0.124150
-0.001012	-0.166151	-20.159562	
0.50000 -0.267794 -36.084806 -0.124150
-0.001012 -0.035605 -19.525971
0.75000 -0.267794 -19.755596 -0.124150
-0.001012 -0.180355 -19.572032
1.00000 -0.267794 -7.365818 -0.124150
-0.001012 -0.363765 -47.499538

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4357
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.173160	5.631622	0.172450
0.000855	0.450424	21.970471	
0.25000	0.173160	16.003686	0.172450
0.000855	0.244706	48.950802	
0.50000	0.173160	29.682773	0.172450
0.000855	0.076729	59.991941	
0.75000	0.173160	42.543114	0.172450
0.000855	0.195788	50.167272	
1.00000	0.173160	56.152811	0.172450
0.000855	0.377256	24.260534	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.335118	-56.836646	-0.152298
-0.000838	-0.388996	-41.926717	
0.25000	-0.335118	-43.219990	-0.152298
-0.000838	-0.199641	-18.150778	
0.50000	-0.335118	-30.359878	-0.152298
-0.000838	-0.033710	-17.575417	
0.75000	-0.335118	-16.680709	-0.152298
-0.000838	-0.209089	-17.569408	
1.00000	-0.335118	-6.301649	-0.152298
-0.000838	-0.421659	-40.920008	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.064442	0.035417	0.076400
0.000433	0.191338	3.705907	
0.25000	0.064442	0.059510	0.076400
0.000433	0.096406	3.921441	
0.50000	0.064442	0.091285	0.076400
0.000433	0.015796	4.114674	
0.75000	0.064442	0.121158	0.076400
0.000433	0.095902	4.273579	
1.00000	0.064442	0.152772	0.076400
0.000433	0.192456	4.405718	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185450	-0.339275	-0.077679
-5.37E-06	-0.193818	-2.115010	
0.25000	-0.185450	-0.307645	-0.077679
-5.37E-06	-0.097246	-1.991369	
0.50000	-0.185450	-0.277773	-0.077679
-5.37E-06	-0.006125	-1.921621	
0.75000	-0.185450	-0.245998	-0.077679
-5.37E-06	-0.053651	-1.853195	
1.00000	-0.185450	-0.221888	-0.077679
-5.37E-06	-0.188620	-1.839023	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.149321	0.496050	0.122458
0.000775	0.308263	7.953679	
0.25000	0.149321	1.218842	0.122458
0.000775	0.157211	9.968877	
0.50000	0.149321	2.172088	0.122458
0.000775	0.031584	10.991553	
0.75000	0.149321	3.068279	0.122458
0.000775	0.151718	10.637253	
1.00000	0.149321	4.016690	0.122458
0.000775	0.303561	9.268401	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.294987	-4.386492	-0.122583
-9.71E-05	-0.306593	-6.157688	
0.25000	-0.294987	-3.437596	-0.122583
-9.71E-05	-0.154189	-4.389584	
0.50000	-0.294987	-2.541487	-0.122583
-9.71E-05	-0.011934	-4.238291	
0.75000	-0.294987	-1.588169	-0.122583
-9.71E-05	-0.150513	-4.126684	
1.00000	-0.294987	-0.864899	-0.122583
-9.71E-05	-0.302584	-5.642712	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4358
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113587	0.955345	0.143700
0.000904	0.375619	13.233187	
0.25000	0.113587	2.104585	0.143700
0.000904	0.197782	16.317202	
0.50000	0.113587	3.620247	0.143700
0.000904	0.048332	17.831382	
0.75000	0.113587	5.045190	0.143700
0.000904	0.155118	17.287128	
1.00000	0.113587	6.553164	0.143700
0.000904	0.309874	15.148042	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.354349	-7.098758	-0.125214
-0.000344	-0.313734	-9.018737	
0.25000	-0.354349	-5.590013	-0.125214
-0.000344	-0.158096	-6.225315	
0.50000	-0.354349	-4.165095	-0.125214
-0.000344	-0.016538	-6.002579	
0.75000	-0.354349	-2.684924	-0.125214
-0.000344	-0.163175	-5.842935	
1.00000	-0.354349	-1.499410	-0.125214
-0.000344	-0.341363	-8.271228	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.153373	6.485709	0.170254
0.000903	0.447839	22.093130	
0.25000	0.153373	18.737032	0.170254
0.000903	0.242692	53.986433	
0.50000	0.153373	34.894560	0.170254
0.000903	0.078469	66.959133	
0.75000	0.153373	50.084997	0.170254
0.000903	0.194097	55.177707	
1.00000	0.153373	66.160562	0.170254
0.000903	0.371454	24.294301	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.404018	-66.814460	-0.150152
-0.000652	-0.385780	-48.420203	
0.25000	-0.404018	-50.730675	-0.150152
-0.000652	-0.199114	-20.386212	

0.50000	-0.404018	-35.540508	-0.150152
-0.000652	-0.036865	-19.756389	
0.75000	-0.404018	-19.382884	-0.150152
-0.000652	-0.207585	-19.799063	
1.00000	-0.404018	-7.123297	-0.150152
-0.000652	-0.417146	-47.430165	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.304372	0.244349	0.218649
0.000219	0.554423	7.954422	
0.25000	0.304372	0.252497	0.218649
0.000219	0.284272	8.171680	
0.50000	0.304372	0.271935	0.218649
0.000219	0.028370	8.419958	
0.75000	0.304372	0.293115	0.218649
0.000219	0.153288	8.710539	
1.00000	0.304372	0.311706	0.218649
0.000219	0.305144	9.019549	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.049728	-0.681684	-0.122011
-0.000777	-0.301013	-3.043458	
0.25000	-0.049728	-0.663092	-0.122011
-0.000777	-0.149187	-2.869793	
0.50000	-0.049728	-0.641911	-0.122011
-0.000777	-0.007827	-2.723676	
0.75000	-0.049728	-0.622467	-0.122011
-0.000777	-0.260843	-2.578606	
1.00000	-0.049728	-0.614312	-0.122011
-0.000777	-0.532685	-2.462047	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.336687	13.039649	0.294656
0.000282	0.757513	24.416335	
0.25000	0.336687	26.011693	0.294656
0.000282	0.410945	64.889525	
0.50000	0.336687	56.957418	0.294656
0.000282	0.095478	88.141328	
0.75000	0.336687	90.676078	0.294656
0.000282	0.273969	65.664563	
1.00000	0.336687	120.272671	0.294656
0.000282	0.501902	25.978867	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.228395	-120.904621	-0.199702
-0.000932	-0.516372	-74.820744	
0.25000	-0.228395	-91.306092	-0.199702
-0.000932	-0.268678	-29.586146	
0.50000	-0.228395	-57.586441	-0.199702
-0.000932	-0.041766	-28.957423	
0.75000	-0.228395	-26.631305	-0.199702
-0.000932	-0.372792	-28.736013	
1.00000	-0.228395	-13.648847	-0.199702
-0.000932	-0.735782	-73.441694	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.323361	9.528886	0.316716
0.000500	0.827131	25.823535	
0.25000	0.323361	18.739689	0.316716
0.000500	0.449054	54.713298	
0.50000	0.323361	40.712709	0.316716
0.000500	0.099847	71.452598	
0.75000	0.323361	64.654622	0.316716
0.000500	0.266201	55.808313	
1.00000	0.323361	85.669720	0.316716
0.000500	0.493806	28.023182	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.304713	-86.487263	-0.196134
-0.001042	-0.505085	-56.453365	
0.25000	-0.304713	-65.470821	-0.196134
-0.001042	-0.261949	-24.199749	
0.50000	-0.304713	-41.528174	-0.196134
-0.001042	-0.039140	-23.618442	
0.75000	-0.304713	-19.548472	-0.196134
-0.001042	-0.383952	-23.326275	
1.00000	-0.304713	-10.330275	-0.196134
-0.001042	-0.773508	-54.934908	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.354111	7.969382	0.350237
0.000649	0.912905	24.992417	
0.25000	0.354111	15.614495	0.350237
0.000649	0.490478	49.066354	
0.50000	0.354111	33.852452	0.350237
0.000649	0.097211	63.061639	
0.75000	0.354111	53.724646	0.350237
0.000649	0.288925	50.217551	
1.00000	0.354111	71.167487	0.350237
0.000649	0.546351	27.316644	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.383083	-72.011201	-0.218771
-0.000891	-0.561226	-48.555731	
0.25000	-0.383083	-54.567219	-0.218771
-0.000891	-0.289986	-21.728125	
0.50000	-0.383083	-34.694441	-0.218771
-0.000891	-0.037591	-21.189075	
0.75000	-0.383083	-16.450938	-0.218771
-0.000891	-0.418924	-20.889982	
1.00000	-0.383083	-8.799698	-0.218771
-0.000891	-0.849968	-47.069165	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.026502	9.153860	0.062371
0.000144	0.172265	14.349843	
0.25000	0.026502	18.247329	0.062371
0.000144	0.107055	42.549308	
0.50000	0.026502	39.940437	0.062371
0.000144	0.057272	58.687654	
0.75000	0.026502	63.577387	0.062371
0.000144	0.099188	42.889354	
1.00000	0.026502	84.324748	0.062371
0.000144	0.164304	15.011698	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.219009	-84.616533	-0.064451
-0.000177	-0.175869	-51.361860	
0.25000	-0.219009	-63.867816	-0.064451
-0.000177	-0.096710	-19.715111	
0.50000	-0.219009	-40.230171	-0.064451
-0.000177	-0.026751	-19.337387	
0.75000	-0.219009	-18.530465	-0.064451
-0.000177	-0.084777	-19.244791	
1.00000	-0.219009	-9.429697	-0.064451
-0.000177	-0.159654	-50.646515	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.093685	8.843927	0.147569
0.000427	0.401508	19.562147	
0.25000	0.093685	17.521833	0.147569
0.000427	0.230871	46.650418	
0.50000	0.093685	38.223590	0.147569
0.000427	0.077788	62.266951	
0.75000	0.093685	60.780357	0.147569
0.000427	0.138290	47.360772	
1.00000	0.093685	80.579585	0.147569
0.000427	0.240935	20.982343	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.323896	-81.119853	-0.095698
-0.000314	-0.258369	-51.534628	
0.25000	-0.323896	-61.319330	-0.095698
-0.000314	-0.140782	-21.242245	
0.50000	-0.323896	-38.761900	-0.095698
-0.000314	-0.033000	-20.769829	
0.75000	-0.323896	-18.053847	-0.095698
-0.000314	-0.178037	-20.608820	
1.00000	-0.323896	-9.368974	-0.095698
-0.000314	-0.357005	-50.484729	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.235280	6.203858	0.261252
0.000579	0.688651	22.647396	
0.25000	0.235280	11.843274	0.261252
0.000579	0.374838	40.254687	
0.50000	0.235280	25.296501	0.261252
0.000579	0.086238	50.550121	
0.75000	0.235280	39.955222	0.261252
0.000579	0.230145	41.363283	
1.00000	0.235280	52.821932	0.261252
0.000579	0.431955	24.800127	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.354559	-53.596846	-0.171712
-0.000862	-0.438500	-37.135520	
0.25000	-0.354559	-40.729295	-0.171712
-0.000862	-0.226364	-17.287701	
0.50000	-0.354559	-26.070143	-0.171712
-0.000862	-0.031462	-16.831559	
0.75000	-0.354559	-12.612825	-0.171712
-0.000862	-0.308309	-16.552478	
1.00000	-0.354559	-6.968881	-0.171712
-0.000862	-0.629264	-35.805676	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250252	5.220258	0.301173
0.000729	0.791276	22.228268	
0.25000	0.250252	9.956439	0.301173
0.000729	0.425977	37.143218	
0.50000	0.250252	21.254933	0.301173
0.000729	0.085786	45.911792	
0.75000	0.250252	33.565845	0.301173
0.000729	0.271079	38.309197	
1.00000	0.250252	44.371762	0.301173
0.000729	0.518605	24.518483	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.459995	-45.179424	-0.207814
-0.000713	-0.529771	-32.868263	
0.25000	-0.459995	-34.372800	-0.207814
-0.000713	-0.272446	-16.145564	
0.50000	-0.459995	-22.061527	-0.207814
-0.000713	-0.031541	-15.708703	
0.75000	-0.459995	-10.759597	-0.207814
-0.000713	-0.352908	-15.420544	
1.00000	-0.459995	-6.019613	-0.207814
-0.000713	-0.723062	-31.536265	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.093347	0.041807	0.122848
0.000379	0.319174	4.946935	
0.25000	0.093347	0.049955	0.122848
0.000379	0.167010	5.156209	
0.50000	0.093347	0.069393	0.122848
0.000379	0.021146	5.356996	
0.75000	0.093347	0.090573	0.122848
0.000379	0.132432	5.534291	
1.00000	0.093347	0.109164	0.122848
0.000379	0.265264	5.706673	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.293654	-0.350814	-0.107569
-4.55E-06	-0.271950	-0.706286	
0.25000	-0.293654	-0.332222	-0.107569
-4.55E-06	-0.138710	-2.588674	
0.50000	-0.293654	-0.311041	-0.107569
-4.55E-06	-0.008150	-2.503274	
0.75000	-0.293654	-0.291597	-0.107569
-4.55E-06	-0.141630	-2.417996	
1.00000	-0.293654	-0.283442	-0.107569
-4.55E-06	-0.293462	-2.358565	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.208228	0.426867	0.223921
0.000661	0.580979	9.811541	
0.25000	0.208228	0.695760	0.223921
0.000661	0.304373	10.924088	
0.50000	0.208228	1.337223	0.223921
0.000661	0.040361	11.698672	
0.75000	0.208228	2.036165	0.223921
0.000661	0.209956	11.592440	
1.00000	0.208228	2.649662	0.223921
0.000661	0.400686	11.182609	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.422098	-3.098062	-0.162679
-9.31E-05	-0.412107	-6.226501	
0.25000	-0.422098	-2.484525	-0.162679
-9.31E-05	-0.211369	-5.134326	
0.50000	-0.422098	-1.785563	-0.162679
-9.31E-05	-0.014864	-4.959790	
0.75000	-0.422098	-1.143905	-0.162679
-9.31E-05	-0.259016	-4.801001	
1.00000	-0.422098	-0.874796	-0.162679
-9.31E-05	-0.535459	-5.573446	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171284	0.418451	0.230517
0.000776	0.612390	14.746266	
0.25000	0.171284	0.425784	0.230517
0.000776	0.328050	15.031939	
0.50000	0.171284	0.443279	0.230517
0.000776	0.058161	15.427458	
0.75000	0.171284	0.462341	0.230517
0.000776	0.205387	16.036888	
1.00000	0.171284	0.479073	0.230517
0.000776	0.406092	16.726674	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.507631	-1.132123	-0.163784
-0.000298	-0.416099	-6.556833	
0.25000	-0.507631	-1.115390	-0.163784
-0.000298	-0.214909	-6.299105	
0.50000	-0.507631	-1.096328	-0.163784
-0.000298	-0.014456	-6.067206	
0.75000	-0.507631	-1.078682	-0.163784
-0.000298	-0.256795	-5.834063	
1.00000	-0.507631	-1.071489	-0.163784
-0.000298	-0.540628	-5.627614	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.218071	5.593705	0.279122
0.000762	0.736346	21.845712	
0.25000	0.218071	10.727115	0.279122
0.000762	0.398976	37.974891	
0.50000	0.218071	22.973224	0.279122
0.000762	0.085477	47.411815	
0.75000	0.218071	36.316664	0.279122
0.000762	0.274475	39.099848	
1.00000	0.218071	48.028884	0.279122
0.000762	0.525522	24.053682	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.549307	-48.804024	-0.210505
-0.000561	-0.537823	-34.909428	
0.25000	-0.549307	-37.091038	-0.210505
-0.000561	-0.278457	-16.822592	
0.50000	-0.549307	-23.747206	-0.210505
-0.000561	-0.032467	-16.387666	
0.75000	-0.549307	-11.497372	-0.210505
-0.000561	-0.326718	-16.113551	
1.00000	-0.549307	-6.359842	-0.210505
-0.000561	-0.669849	-33.619191	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.218880	11.291451	0.184421
0.000904	0.912905	25.825077	
0.25000	0.218880	33.746186	0.184421
0.000904	0.260275	83.344080	
0.50000	0.218880	63.360378	0.184421
0.000904	0.086244	106.734832	
0.75000	0.218880	91.202043	0.184421
0.000904	0.213969	84.365365	
1.00000	0.218880	120.666011	0.184421
0.000904	0.402818	27.468803	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.404018	-121.202109	-0.162551
-0.001219	-0.416436	-82.393925	
0.25000	-0.404018	-91.723077	-0.162551
-0.001219	-0.214367	-31.234261	
0.50000	-0.404018	-63.881906	-0.162551
-0.001219	-0.048700	-30.302049	
0.75000	-0.404018	-34.267538	-0.162551
-0.001219	-0.226256	-30.602496	
1.00000	-0.404018	-11.797656	-0.162551
-0.001219	-0.453380	-81.468133	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.354111	13.039649	0.350237
0.000776	0.912905	25.823535	
0.25000	0.354111	26.011693	0.350237
0.000776	0.490478	64.889525	
0.50000	0.354111	56.957418	0.350237
0.000776	0.099847	88.141328	
0.75000	0.354111	90.676078	0.350237
0.000776	0.288925	65.664563	
1.00000	0.354111	120.272671	0.350237
0.000776	0.546351	28.023182	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.549307	-120.904621	-0.218771
-0.001042	-0.561226	-74.820744	
0.25000	-0.549307	-91.306092	-0.218771
-0.001042	-0.289986	-29.586146	
0.50000	-0.549307	-57.586441	-0.218771
-0.001042	-0.041766	-28.957423	
0.75000	-0.549307	-26.631305	-0.218771
-0.001042	-0.418924	-28.736013	
1.00000	-0.549307	-13.648847	-0.218771
-0.001042	-0.849968	-73.441694	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.354111	13.039649	0.350237
0.000904	0.912905	25.823535	
0.25000	0.354111	33.746186	0.350237
0.000904	0.490478	83.344080	
0.50000	0.354111	63.360378	0.350237
0.000904	0.099847	106.734832	
0.75000	0.354111	91.202043	0.350237
0.000904	0.288925	84.365365	
1.00000	0.354111	120.666011	0.350237
0.000904	0.546351	28.023182	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.549307	-121.202109	-0.218771
-0.001219	-0.561226	-82.393925	
0.25000	-0.549307	-91.723077	-0.218771
-0.001219	-0.289986	-31.234261	
0.50000	-0.549307	-63.881906	-0.218771
-0.001219	-0.048700	-30.302049	
0.75000	-0.549307	-34.267538	-0.218771
-0.001219	-0.418924	-30.602496	
1.00000	-0.549307	-13.648847	-0.218771
-0.001219	-0.849968	-81.468133	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.354111	13.039649	0.350237
0.000904	0.912905	25.823535	
0.25000	0.354111	33.746186	0.350237
0.000904	0.490478	83.344080	
0.50000	0.354111	63.360378	0.350237
0.000904	0.099847	106.734832	
0.75000	0.354111	91.202043	0.350237
0.000904	0.288925	84.365365	
1.00000	0.354111	120.666011	0.350237
0.000904	0.546351	28.023182	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.549307	-121.202109	-0.218771
-0.001219	-0.561226	-82.393925	
0.25000	-0.549307	-91.723077	-0.218771
-0.001219	-0.289986	-31.234261	
0.50000	-0.549307	-63.881906	-0.218771
-0.001219	-0.048700	-30.302049	
0.75000	-0.549307	-34.267538	-0.218771
-0.001219	-0.418924	-30.602496	
1.00000	-0.549307	-13.648847	-0.218771
-0.001219	-0.849968	-81.468133	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 423 ========== LENGTH = 4.972811

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.281865	0.348185	0.094399
0.000504	0.234541	8.339075	
0.25000	0.281865	0.372279	0.094399
0.000504	0.117220	8.285788	
0.50000	0.281865	0.404054	0.094399
0.000504	0.025594	8.314481	
0.75000	0.281865	0.433929	0.094399
0.000504	0.118289	8.481061	
1.00000	0.281865	0.465553	0.094399
0.000504	0.235891	8.721292	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023456	-0.592377	-0.094596
-0.000629	-0.234575	-1.951379	
0.25000	-0.023456	-0.560745	-0.094596
-0.000629	-0.116964	-1.801195	
0.50000	-0.023456	-0.530873	-0.094596
-0.000629	-0.004978	-1.705075	
0.75000	-0.023456	-0.499397	-0.094596
-0.000629	-0.117625	-1.610332	
1.00000	-0.023456	-0.474995	-0.094596
-0.000629	-0.234959	-1.569617	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.320777	11.431323	0.133322
0.000644	0.343850	26.658440	
0.25000	0.320777	33.887026	0.133322
0.000644	0.186476	84.908275	
0.50000	0.320777	63.501410	0.133322
0.000644	0.089520	107.861695	
0.75000	0.320777	91.344823	0.133322
0.000644	0.208829	85.233831	
1.00000	0.320777	120.817987	0.133322
0.000644	0.383917	27.268675	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.253890	-121.037079	-0.149556
-0.000800	-0.390725	-81.477467	
0.25000	-0.253890	-91.555872	-0.149556
-0.000800	-0.204798	-30.322805	
0.50000	-0.253890	-63.714474	-0.149556
-0.000800	-0.046345	-29.521600	
0.75000	-0.253890	-34.099775	-0.149556
-0.000800	-0.180817	-30.003738	
1.00000	-0.253890	-11.636836	-0.149556
-0.000800	-0.340026	-80.839655	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294197	8.185866	0.139938
0.000856	0.357423	27.457008	
0.25000	0.294197	23.457573	0.139938
0.000856	0.188151	66.926397	
0.50000	0.294197	43.634868	0.139938
0.000856	0.090680	82.517995	
0.75000	0.294197	62.590496	0.139938
0.000856	0.225459	67.332683	
1.00000	0.294197	82.655649	0.139938
0.000856	0.412207	28.241675	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267559	-82.930134	-0.156598
-0.000976	-0.388904	-57.600022	
0.25000	-0.267559	-62.859505	-0.156598
-0.000976	-0.196905	-22.733134	
0.50000	-0.267559	-43.905249	-0.156598
-0.000976	-0.037547	-22.082589	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.267559	-23.743740	-0.156598
-0.000976	-0.183102	-22.305739	
1.00000	-0.267559	-8.451105	-0.156598
-0.000976	-0.352684	-56.809439	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.339002	6.894999	0.158426
0.000895	0.402410	26.177527	
0.25000	0.339002	19.580544	0.158426
0.000895	0.209352	58.884050	
0.50000	0.339002	36.310129	0.158426
0.000895	0.087691	71.819028	
0.75000	0.339002	52.039267	0.158426
0.000895	0.241239	59.290291	
1.00000	0.339002	68.689075	0.158426
0.000895	0.450858	26.965227	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.338263	-68.961251	-0.173901
-0.000924	-0.432481	-49.015603	
0.25000	-0.338263	-52.306899	-0.173901
-0.000924	-0.218042	-19.977242	
0.50000	-0.338263	-36.578899	-0.173901
-0.000924	-0.034407	-19.384273	
0.75000	-0.338263	-19.849137	-0.173901

```
-0.000924   -0.203889   -19.516284
1.00000   -0.338263   -7.159504   -0.173901
-0.000924   -0.397204   -48.093859

COMB DB-G2-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.012347    9.431800    0.027762
0.000198   0.080488   17.373073
0.25000   0.012347   28.225199    0.027762
0.000198   0.054620   66.165564
0.50000   0.012347   53.009769    0.027762
0.000198   0.059962   85.367594
0.75000   0.012347   76.312196    0.027762
0.000198   0.088459   66.312809
1.00000   0.012347  100.978578    0.027762
0.000198   0.142088   17.632964

COMB DB-G2-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.274413 -101.080188   -0.050685
-0.000200   -0.136598   -67.099090
0.25000   -0.274413   -76.407075   -0.050685
-0.000200   -0.073893   -24.345482
0.50000   -0.274413   -53.106335   -0.050685
-0.000200   -0.035959   -23.733125
0.75000   -0.274413   -28.321501   -0.050685
-0.000200   -0.048437   -24.194808
1.00000   -0.274413    -9.522045   -0.050685
-0.000200   -0.076854   -66.798066

COMB DB-G2-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.088878    8.978854    0.064641
0.000487   0.172061   22.293430
0.25000   0.088878   26.471172    0.064641
0.000487   0.097112   67.564534
0.50000   0.088878   49.539888    0.064641
0.000487   0.076574   85.402352
0.75000   0.088878   71.229070    0.064641
0.000487   0.138543   67.822542
1.00000   0.088878   94.187779    0.064641
0.000487   0.234611   22.776126

COMB DB-G2-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.327990   -94.366765   -0.084564
-0.000428   -0.211427   -64.126509
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4366

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.25000   -0.327990   -71.401790   -0.084564
-0.000428   -0.108486   -24.255143
0.50000   -0.327990   -49.714178   -0.084564
-0.000428   -0.038104   -23.607556
0.75000   -0.327990   -26.645217   -0.084564
-0.000428   -0.090342   -23.959654
1.00000   -0.327990    -9.147262   -0.084564
-0.000428   -0.165645   -63.535832

COMB DB-G2-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.251693    6.898019    0.120741
0.000874   0.308205   25.521231
0.25000   0.251693   19.279977    0.120741
0.000874   0.161931   57.325732
0.50000   0.251693   35.609196    0.120741
0.000874   0.083987   69.899140
0.75000   0.251693   50.961911    0.120741
0.000874   0.198985   57.705529
1.00000   0.251693   67.213262    0.120741
0.000874   0.363790   26.257296

COMB DB-G2-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.344357   -67.475624   -0.137862
-0.000889   -0.340115   -47.507386
0.25000   -0.344357   -51.219838   -0.137862
-0.000889   -0.170272   -19.179753
0.50000   -0.344357   -35.868235   -0.137862
-0.000889   -0.032672   -18.616721
0.75000   -0.344357   -19.538843   -0.137862
-0.000889   -0.157180   -18.761339
1.00000   -0.344357    -7.152893   -0.137862
-0.000889   -0.303705   -46.670785

COMB DB-G2-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.230254    5.819796    0.146745
0.000863   0.372261   24.252914
0.25000   0.230254   16.192307    0.146745
0.000863   0.193025   50.935038
0.50000   0.230254   29.871483    0.146745
0.000863   0.081607   61.498866
0.75000   0.230254   42.732631    0.146745
0.000863   0.224963   51.313759
1.00000   0.230254   56.346576    0.146745
0.000863   0.421600   24.989121

COMB DB-G2-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.422985   -56.599234   -0.162585
-0.000729   -0.402274   -40.927149
0.25000   -0.422985   -42.981574   -0.162585
-0.000729   -0.201804   -17.145731
0.50000   -0.422985   -30.121357   -0.162585
-0.000729   -0.030544   -16.623042
0.75000   -0.422985   -16.442036   -0.162585
-0.000729   -0.187655   -16.693158
1.00000   -0.422985    -6.066182   -0.162585
-0.000729   -0.367095   -40.022195

COMB DB-G3-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.057933    0.087126    0.073464
0.000173   0.183783    4.404290
0.25000   0.057933    0.111220    0.073464
0.000173   0.092455    4.495553
0.50000   0.057933    0.142995    0.073464
0.000173   0.017530    4.560657
0.75000   0.057933    0.172870    0.073464
0.000173   0.094181    4.586869
1.00000   0.057933    0.204494    0.073464
0.000173   0.188898    4.588747
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4367

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.230266   -0.250786   -0.076185
-7.00E-06   -0.189992   -1.839252
0.25000   -0.230266   -0.219154   -0.076185
-7.00E-06   -0.095269   -1.705350
0.50000   -0.230266   -0.189281   -0.076185
-7.00E-06   -0.004992   -1.625475
0.75000   -0.230266   -0.157506   -0.076185
-7.00E-06   -0.090233   -1.546977
1.00000   -0.230266   -0.133404   -0.076185
-7.00E-06   -0.181562   -1.522506

COMB DB-G3-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.196354    0.601813    0.117028
0.000411   0.293439    9.263982
0.25000   0.196354    1.324641    0.117028
0.000411   0.148166   11.054443
0.50000   0.196354    2.277894    0.117028
0.000411   0.034658   11.812313
0.75000   0.196354    3.174141    0.117028
0.000411   0.149334   11.232232
1.00000   0.196354    4.122848    0.117028
0.000411   0.298622    9.621739

COMB DB-G3-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.353969   -4.231784   -0.120331
-0.000171   -0.300754   -5.644711
0.25000   -0.353969   -3.282818   -0.120331
-0.000171   -0.151150   -3.861154
0.50000   -0.353969   -2.386636   -0.120331
-0.000171   -0.009961   -3.698415
0.75000   -0.353969   -1.433373   -0.120331
-0.000171   -0.143895   -3.576984
1.00000   -0.353969   -0.710317   -0.120331
-0.000171   -0.289183   -5.076384

COMB DB-G3-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.124921    1.109603    0.117975
0.000621   0.295948   15.144701
0.25000   0.124921    2.258892    0.117975
0.000621   0.149600   17.921723
0.50000   0.124921    3.774564    0.117975
0.000621   0.052657   19.074271
0.75000   0.124921    5.199597    0.117975
0.000621   0.181401   18.205170
1.00000   0.124921    6.708041    0.117975
0.000621   0.345417   15.709034

COMB DB-G3-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.416465   -6.888082   -0.132980
-0.000389   -0.318777   -8.274338
0.25000   -0.416465   -5.379226   -0.132980
-0.000389   -0.154708   -5.467561
0.50000   -0.416465   -3.954296   -0.132980
-0.000389   -0.013808   -5.237883
0.75000   -0.416465   -2.438608   -0.132980
-0.000389   -0.145449   -5.073887
1.00000   -0.416465   -1.288949   -0.132980
-0.000389   -0.291820   -7.487011

COMB DB-G3-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.187445    6.666477    0.142913
0.000753   0.364143   24.290192
0.25000   0.187445   18.918327    0.142913
0.000753   0.190257   55.901238
0.50000   0.187445   35.075961    0.142913
0.000753   0.083287   68.395017
0.75000   0.187445   50.267351    0.142913
0.000753   0.223531   56.256537
1.00000   0.187445   66.347934    0.142913
0.000753   0.416491   24.978137
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4368

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.519373   -66.580061   -0.160339
-0.000594   -0.398802   -47.434504
0.25000   -0.519373   -50.495089   -0.160339
-0.000594   -0.201053   -19.389821
0.50000   -0.519373   -35.304798   -0.160339
-0.000594   -0.033663   -18.817993
0.75000   -0.519373   -19.146993   -0.160339
-0.000594   -0.183794   -18.946355
1.00000   -0.519373    -6.891194   -0.160339
-0.000594   -0.357927   -46.547788

COMB DL-G1-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.395558    0.322269    0.195390
0.000414   0.496161    9.026226
0.25000   0.395558    0.330418    0.195390
0.000414   0.254393    9.051184
0.50000   0.395558    0.349858    0.195390
0.000414   0.030336    9.094161
0.75000   0.395558    0.371039    0.195390
0.000414   0.166722    9.177516
1.00000   0.395558    0.389632    0.195390
0.000414   0.324846    9.272646

COMB DL-G1-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.027816   -0.553513   -0.127964
-0.000523   -0.313017   -2.506552
0.25000   -0.027816   -0.534927   -0.127964
-0.000523   -0.154956   -2.346100
0.50000   -0.027816   -0.513746   -0.127964
-0.000523   -0.006048   -2.212644
0.75000   -0.027816   -0.494304   -0.127964
-0.000523   -0.235475   -2.079577
1.00000   -0.027816   -0.486144   -0.127964
-0.000523   -0.477486   -1.974377

COMB DL-G1-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.422612   13.173633    0.256173
0.000505   0.654292   25.995002
0.25000   0.422612   26.146193    0.256173
0.000505   0.355180   66.246648
0.50000   0.422612   57.095233    0.256173
0.000505   0.098730   89.190074
0.75000   0.422612   90.814889    0.256173
0.000505   0.323674   66.446998
1.00000   0.422612  120.414793    0.256173
0.000505   0.587868   26.343624

COMB DL-G1-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.246249 -120.689118   -0.226065
-0.000642   -0.567218   -73.489969
0.25000   -0.246249   -91.100252   -0.226065
-0.000642   -0.290108   -28.332689
0.50000   -0.246249   -57.379942   -0.226065
-0.000642   -0.037902   -27.807198
0.75000   -0.246249   -26.427243   -0.226065
-0.000642   -0.336370   -27.837144
1.00000   -0.246249   -13.437195   -0.226065
-0.000642   -0.653327   -72.472679

COMB DL-G1-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.406956    9.709003    0.264897
0.000692   0.677283   28.030139
0.25000   0.406956   18.920172    0.264897
0.000692   0.362679   56.548522
0.50000   0.406956   40.895546    0.264897
0.000692   0.104604   72.855070
0.75000   0.406956   64.838196    0.264897
0.000692   0.339919   56.803649
1.00000   0.406956   85.855616    0.264897
0.000692   0.616393   28.503760
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4369

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.317190   -86.208289   -0.233198
-0.000795   -0.567895   -54.976072
0.25000   -0.317190   -65.198708   -0.233198
-0.000795   -0.283950   -22.777951
0.50000   -0.317190   -41.255593   -0.233198
-0.000795   -0.034517   -22.271367
0.75000   -0.317190   -19.277621   -0.233198
-0.000795   -0.338757   -22.159122
1.00000   -0.317190   -10.054034   -0.233198
-0.000795   -0.665832   -53.719048

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.444641    8.152723    0.293621
0.000717   0.747625   27.305118
0.25000   0.444641   15.798140    0.293621
0.000717   0.395138   50.970091
0.50000   0.444641   34.030050    0.293621
0.000717   0.102280   64.502912
0.75000   0.444641   53.910831    0.293621
0.000717   0.365207   51.220433
1.00000   0.444641   71.355624    0.293621
0.000717   0.670621   27.777943

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.405191   -71.714212   -0.254893
-0.000754   -0.618588   -47.091314
0.25000   -0.405191   -54.275925   -0.254893
-0.000754   -0.306813   -20.302898
0.50000   -0.405191   -34.402759   -0.254893
-0.000754   -0.032778   -19.818967
0.75000   -0.405191   -16.160692   -0.254893
-0.000754   -0.371636   -19.662309
1.00000   -0.405191    -8.504968   -0.254893
-0.000754   -0.734475   -45.794046

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.016958    9.218634    0.042492
0.000161   0.111553   15.018611
0.25000   0.016958   18.312463    0.042492
0.000161   0.072596   43.146729
0.50000   0.016958   40.007896    0.042492
0.000161   0.058799   59.143356
0.75000   0.016958   63.645544    0.042492
0.000161   0.139718   43.232263
1.00000   0.016958   84.395225    0.042492
0.000161   0.233307   15.149941

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.268998   -84.517971   -0.085479
-0.000170   -0.214975   -50.645697
0.25000   -0.268998   -63.776027   -0.085479
-0.000170   -0.111727   -19.043824
0.50000   -0.268998   -40.137920   -0.085479
-0.000170   -0.024652   -18.729688
0.75000   -0.268998   -18.439923   -0.085479
-0.000170   -0.237205   -18.807421
1.00000   -0.268998    -9.333834   -0.085479
-0.000170   -0.123831   -50.148829

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.104349    8.965961    0.109302
0.000394   0.281775   20.971713
0.25000   0.104349   17.644212    0.109302
0.000394   0.159489   47.829566
0.50000   0.104349   38.348187    0.109302
0.000394   0.081486   63.156281
0.75000   0.104349   60.905620    0.109302
0.000394   0.206149   47.983266
1.00000   0.104349   80.707063    0.109302
0.000394   0.354276   21.247841
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4370

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.364896   -80.933828   -0.129020
-0.000354   -0.310850   -50.475412
0.25000   -0.364896   -61.139769   -0.129020
-0.000354   -0.155104   -20.220821
0.50000   -0.364896   -38.581898   -0.129020
-0.000354   -0.029669   -19.824172
0.75000   -0.364896   -17.875476   -0.129020
-0.000354   -0.150832   -19.799089
1.00000   -0.364896    -9.185525   -0.129020
-0.000354   -0.284888   -49.613858

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.288191    6.377470    0.213607
0.000696   0.545451   24.802540
0.25000   0.288191   12.017110    0.213607
0.000696   0.289509   42.032954
0.50000   0.288191   25.471778    0.213607
0.000696   0.090772   51.888467
0.75000   0.288191   40.130932    0.213607
0.000696   0.306901   42.272051
1.00000   0.288191   52.999082    0.213607
0.000696   0.559059   25.250446

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.394912   -53.331834   -0.210363
-0.000729   -0.504136   -35.826824
0.25000   -0.394912   -40.468483   -0.210363
-0.000729   -0.246630   -16.012460
0.50000   -0.394912   -25.809044   -0.210363
-0.000729   -0.027144   -15.601108
0.75000   -0.394912   -12.352786   -0.210363
-0.000729   -0.270869   -15.431876
1.00000   -0.394912    -6.705542   -0.210363
-0.000729   -0.533914   -34.653724

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.297899    5.395914    0.248276
0.000699   0.630992   24.504002
0.25000   0.297899   10.132283    0.248276
0.000699   0.330973   39.002147
0.50000   0.297899   21.431988    0.248276
0.000699   0.090901   47.304222
0.75000   0.297899   33.743263    0.248276
0.000699   0.351701   39.237006
1.00000   0.297899   44.550388    0.248276
0.000699   0.650244   24.947384

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.513139   -44.890141   -0.246585
-0.000596   -0.591408   -31.538294
0.25000   -0.513139   -34.087045   -0.246585
-0.000596   -0.288919   -14.835635
0.50000   -0.513139   -21.775531   -0.246585
-0.000596   -0.026938   -14.428660
0.75000   -0.513139   -10.474491   -0.246585
-0.000596   -0.312245   -14.224380
1.00000   -0.513139    -5.737736   -0.246585
-0.000596   -0.618505   -30.305674

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.088664    0.087511    0.105013
0.000165   0.262734    5.683629
0.25000   0.088664    0.095660    0.105013
0.000165   0.132889    5.730765
0.50000   0.088664    0.115100    0.105013
0.000165   0.022903    5.769272
0.75000   0.088664    0.136281    0.105013
0.000165   0.161441    5.781053
1.00000   0.088664    0.154874    0.105013
0.000165   0.309360    5.785271
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4371

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.335207   -0.245770   -0.119731
-5.91E-06   -0.287858   -2.332237
0.25000   -0.335207   -0.227184   -0.119731
-5.91E-06   -0.139856   -2.126431
0.50000   -0.335207   -0.206003   -0.119731
-5.91E-06   -0.006574   -2.108595
0.75000   -0.335207   -0.186561   -0.119731
-5.91E-06   -0.130895   -2.011224
1.00000   -0.335207   -0.178401   -0.119731
-5.91E-06   -0.260703   -1.941856

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.237209    0.517453    0.191162
0.000365   0.480201   11.139991
0.25000   0.237209    0.786357    0.191162
0.000365   0.244018   11.972085
0.50000   0.237209    1.427888    0.191162
0.000365   0.043539   12.457498
0.75000   0.237209    2.126851    0.191162
0.000365   0.247142   12.075422
1.00000   0.237209    2.740417    0.191162
0.000365   0.472058   11.348407

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.471314   -2.916296   -0.182236
-0.000146   -0.437494   -5.537366
0.25000   -0.471314   -2.302959   -0.182236
-0.000146   -0.212425   -4.427749
0.50000   -0.471314   -1.603982   -0.182236
-0.000146   -0.012069   -4.243457
0.75000   -0.471314   -0.962375   -0.182236
-0.000146   -0.236234   -4.070621
1.00000   -0.471314   -0.693109   -0.182236
-0.000146   -0.472690   -4.795588

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.181379    0.559130    0.182889
0.000529   0.461641   16.691140
0.25000   0.181379    0.566464    0.182889
0.000529   0.236178   16.576625
0.50000   0.181379    0.583960    0.182889
0.000529   0.062616   16.560106
0.75000   0.181379    0.603023    0.182889
0.000529   0.283357   16.751152
1.00000   0.181379    0.619756    0.182889
0.000529   0.527892   17.032861

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.563699   -0.884906   -0.198653
-0.000334   -0.465511   -5.593478
0.25000   -0.563699   -0.868178   -0.198653
-0.000334   -0.220732   -5.320172
0.50000   -0.563699   -0.849115   -0.198653
-0.000334   -0.015664   -5.072085
0.75000   -0.563699   -0.831617   -0.198653
-0.000334   -0.226246   -4.824293
1.00000   -0.563699   -0.824273   -0.198653
-0.000334   -0.451434   -4.601761

COMB DL-G3-4 ---------- MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000   0.239808    5.760895    0.228006
0.000628   0.578552   24.034281
0.25000   0.239808   10.894508    0.228006
0.000628   0.304077   39.756035
0.50000   0.239808   23.141930    0.228006
0.000628   0.090358   48.735686
0.75000   0.239808   36.485764    0.228006
0.000628   0.360415   39.974757
1.00000   0.239808   48.199294    0.228006
0.000628   0.664538   24.440449
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4372

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.625526   -48.520085   -0.251647
-0.000503   -0.603644   -33.604494
0.25000   -0.625526   -36.810924   -0.251647
-0.000503   -0.294150   -15.534459
0.50000   -0.625526   -23.466831   -0.251647
-0.000503   -0.027851   -15.126690
0.75000   -0.625526   -11.217961   -0.251647
-0.000503   -0.290609   -14.938690
1.00000   -0.625526    -6.077427   -0.251647
-0.000503   -0.571494   -32.402332

COMB     DB ---------- MAX
```

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.339002	11.431323	0.158426
0.000895	0.402410	27.457008	
0.25000	0.339002	33.887026	0.158426
0.000895	0.209352	84.908275	
0.50000	0.339002	63.501410	0.158426
0.000895	0.090680	107.861695	
0.75000	0.339002	91.344823	0.158426
0.000895	0.241239	85.233831	
1.00000	0.339002	120.817987	0.158426
0.000895	0.450858	28.241675	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.519373	-121.037079	-0.173901
-0.000976	-0.432481	-81.477467	
0.25000	-0.519373	-91.555872	-0.173901
-0.000976	-0.218042	-30.322805	
0.50000	-0.519373	-63.714474	-0.173901
-0.000976	-0.046345	-29.521600	
0.75000	-0.519373	-34.099775	-0.173901
-0.000976	-0.203889	-30.003738	
1.00000	-0.519373	-11.636836	-0.173901
-0.000976	-0.397204	-80.839655	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.444641	13.173633	0.293621
0.000717	0.747625	28.030139	
0.25000	0.444641	26.146193	0.293621
0.000717	0.395138	66.246648	
0.50000	0.444641	57.095233	0.293621
0.000717	0.104604	89.190074	
0.75000	0.444641	90.814889	0.293621
0.000717	0.365207	66.446998	
1.00000	0.444641	120.414793	0.293621
0.000717	0.670621	28.503760	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.625526	-120.689118	-0.254893
-0.000795	-0.618588	-73.489969	
0.25000	-0.625526	-91.100252	-0.254893
-0.000795	-0.306813	-28.332689	
0.50000	-0.625526	-57.379942	-0.254893
-0.000795	-0.037902	-27.807198	
0.75000	-0.625526	-26.427243	-0.254893
-0.000795	-0.371636	-27.837144	
1.00000	-0.625526	-13.437195	-0.254893
-0.000795	-0.734475	-72.472679	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.444641	13.173633	0.293621
0.000895	0.747625	28.030139	
0.25000	0.444641	33.887026	0.293621
0.000895	0.395138	84.908275	
0.50000	0.444641	63.501410	0.293621
0.000895	0.104604	107.861695	
0.75000	0.444641	91.344823	0.293621
0.000895	0.365207	85.233831	
1.00000	0.444641	120.817987	0.293621
0.000895	0.670621	28.503760	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4373

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.625526	-121.037079	-0.254893
-0.000976	-0.618588	-81.477467	
0.25000	-0.625526	-91.555872	-0.254893
-0.000976	-0.306813	-30.322805	
0.50000	-0.625526	-63.714474	-0.254893
-0.000976	-0.046345	-29.521600	
0.75000	-0.625526	-34.099775	-0.254893
-0.000976	-0.371636	-30.003738	
1.00000	-0.625526	-13.437195	-0.254893
-0.000976	-0.734475	-80.839655	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.444641	13.173633	0.293621
0.000895	0.747625	28.030139	
0.25000	0.444641	33.887026	0.293621
0.000895	0.395138	84.908275	
0.50000	0.444641	63.501410	0.293621
0.000895	0.104604	107.861695	
0.75000	0.444641	91.344823	0.293621
0.000895	0.365207	85.233831	
1.00000	0.444641	120.817987	0.293621
0.000895	0.670621	28.503760	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.625526	-121.037079	-0.254893
-0.000976	-0.618588	-81.477467	
0.25000	-0.625526	-91.555872	-0.254893
-0.000976	-0.306813	-30.322805	
0.50000	-0.625526	-63.714474	-0.254893
-0.000976	-0.046345	-29.521600	
0.75000	-0.625526	-34.099775	-0.254893
-0.000976	-0.371636	-30.003738	
1.00000	-0.625526	-13.437195	-0.254893
-0.000976	-0.734475	-80.839655	

ELEM 424 ========== LENGTH = 4.973321

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.462720	0.423504	0.094691
0.000763	0.235306	8.717032	
0.25000	0.462720	0.447650	0.094691
0.000763	0.117590	8.501592	
0.50000	0.462720	0.479428	0.094691
0.000763	0.025629	8.353042	
0.75000	0.462720	0.509303	0.094691
0.000763	0.120078	8.339027	
1.00000	0.462720	0.540943	0.094691
0.000763	0.239389	8.408762	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.026580	-0.496244	-0.095972
-0.000349	-0.237975	-1.583543	
0.25000	-0.026580	-0.464612	-0.095972
-0.000349	-0.118654	-1.437781	
0.50000	-0.026580	-0.434736	-0.095972
-0.000349	-0.003932	-1.346271	
0.75000	-0.026580	-0.402959	-0.095972
-0.000349	-0.117910	-1.256111	
1.00000	-0.026580	-0.378867	-0.095972
-0.000349	-0.235636	-1.219810	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.513224	11.517689	0.126532
0.000952	0.313677	27.272510	
0.25000	0.513224	34.022189	0.126532
0.000952	0.171868	85.321954	
0.50000	0.513224	63.638998	0.126532
0.000952	0.089887	108.000974	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4374

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.513224	91.482383	0.126532
0.000952	0.238130	84.789714	
1.00000	0.513224	120.971324	0.126532
0.000952	0.438269	26.763652	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.372149	-120.871430	-0.168404
-0.000468	-0.432609	-80.849803	
0.25000	-0.372149	-91.391019	-0.168404
-0.000468	-0.224614	-29.661966	
0.50000	-0.372149	-63.545771	-0.168404
-0.000468	-0.044919	-29.037147	
0.75000	-0.372149	-33.930133	-0.168404
-0.000468	-0.174103	-29.670600	
1.00000	-0.372149	-11.476700	-0.168404
-0.000468	-0.326699	-80.500903	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.473546	8.338608	0.133256
0.001118	0.330929	28.253493	
0.25000	0.473546	23.659537	0.133256
0.001118	0.176088	67.382784	
0.50000	0.473546	43.822483	0.133256
0.001118	0.090842	82.593175	
0.75000	0.473546	62.778092	0.133256
0.001118	0.288077	66.792108	
1.00000	0.473546	82.853986	0.133256
0.001118	0.534099	27.460404	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.366887	-82.707160	-0.203337
-0.000669	-0.500739	-56.825276	
0.25000	-0.366887	-62.637073	-0.203337
-0.000669	-0.249224	-21.870745	
0.50000	-0.366887	-43.680195	-0.203337
-0.000669	-0.035261	-21.339213	
0.75000	-0.366887	-23.518047	-0.203337
-0.000669	-0.180984	-21.664304	
1.00000	-0.366887	-8.231885	-0.203337
-0.000669	-0.343419	-56.163110	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.541400	7.070785	0.151698
0.000972	0.376804	26.980904	
0.25000	0.541400	19.783896	0.151698
0.000972	0.197475	59.313720	
0.50000	0.541400	36.514851	0.151698
0.000972	0.087675	71.859125	
0.75000	0.541400	52.243973	0.151698
0.000972	0.304201	58.715360	
1.00000	0.541400	68.902694	0.151698
0.000972	0.562812	26.085954	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.434155	-68.720574	-0.213266
-0.000805	-0.522929	-48.110730	
0.25000	-0.434155	-52.066672	-0.213266
-0.000805	-0.260492	-19.049121	
0.50000	-0.434155	-36.336497	-0.213266
-0.000805	-0.031803	-18.551278	
0.75000	-0.434155	-19.606204	-0.213266
-0.000805	-0.200746	-18.764250	
1.00000	-0.434155	-6.921942	-0.213266
-0.000805	-0.386669	-47.334133	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.017347	9.462287	0.025938
0.000227	0.062024	17.644014	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4375

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.017347	28.296526	0.025938
0.000227	0.042727	66.361249	
0.50000	0.017347	53.083126	0.025938
0.000227	0.060102	85.432272	
0.75000	0.017347	76.385529	0.025938
0.000227	0.130341	65.999245	
1.00000	0.017347	101.065115	0.025938
0.000227	0.222042	17.368749	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.409687	-100.998285	-0.080208
-0.000186	-0.205250	-66.705686	
0.25000	-0.409687	-76.325838	-0.080208
-0.000186	-0.106885	-24.009525	
0.50000	-0.409687	-53.021875	-0.080208
-0.000186	-0.035360	-23.540052	
0.75000	-0.409687	-28.236255	-0.080208
-0.000186	-0.047887	-24.123641	
1.00000	-0.409687	-9.444756	-0.080208
-0.000186	-0.076191	-66.717468	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.142267	9.080120	0.056609
0.000418	0.139656	22.794446	
0.25000	0.142267	26.610450	0.056609
0.000418	0.082180	67.853649	
0.50000	0.142267	49.681054	0.056609
0.000418	0.076531	85.438708	
0.75000	0.142267	71.370214	0.056609
0.000418	0.214219	67.331409	
1.00000	0.142267	94.341214	0.056609
0.000418	0.376291	22.164860	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.441404	-94.210153	-0.136687
-0.000472	-0.330709	-63.539286	
0.25000	-0.441404	-71.245798	-0.136687
-0.000472	-0.164507	-23.634186	
0.50000	-0.441404	-49.555186	-0.136687
-0.000472	-0.036519	-23.116158	
0.75000	-0.441404	-26.485494	-0.136687
-0.000472	-0.087308	-23.578285	
1.00000	-0.441404	-8.994945	-0.136687
-0.000472	-0.153981	-63.142251	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.385985	7.059898	0.115278
0.000976	0.284969	26.274916	
0.25000	0.385985	19.463714	0.115278
0.000976	0.151228	57.725131	
0.50000	0.385985	35.799320	0.115278
0.000976	0.083922	69.946682	
0.75000	0.385985	51.152019	0.115278
0.000976	0.265676	57.172822	
1.00000	0.385985	67.412069	0.115278
0.000976	0.488926	25.443871	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.473918	-67.256416	-0.184162
-0.000716	-0.473918	-46.864419	
0.25000	-0.473918	-51.001069	-0.184162
-0.000716	-0.220738	-18.335089	
0.50000	-0.473918	-35.647342	-0.184162
-0.000716	-0.030317	-17.865947	
0.75000	-0.473918	-19.317432	-0.184162
-0.000716	-0.156351	-18.090610	
1.00000	-0.473918	-6.936258	-0.184162
-0.000716	-0.297030	-45.993558	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4376

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.348827	6.001015	0.140466
0.000806	0.348907	25.010867	
0.25000	0.348827	16.396066	0.140466
0.000806	0.182036	51.307673	
0.50000	0.348827	30.076362	0.140466
0.000806	0.081466	61.494238	
0.75000	0.348827	42.937496	0.140466
0.000806	0.288503	50.738017	
1.00000	0.348827	56.558729	0.140466
0.000806	0.531404	24.098232	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.554880	-56.372018	-0.200367
-0.000810	-0.489723	-40.036602	
0.25000	-0.554880	-42.754725	-0.200367
-0.000810	-0.242886	-16.233027	
0.50000	-0.554880	-29.892730	-0.200367
-0.000810	-0.027869	-15.785010	
0.75000	-0.554880	-16.212974	-0.200367
-0.000810	-0.185000	-15.918200	
1.00000	-0.554880	-5.841512	-0.200367
-0.000810	-0.357458	-39.237812	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.052660	0.157683	0.070938
6.24E-06	0.177341	4.599872	
0.25000	0.052660	0.181830	0.070938
6.24E-06	0.089154	4.556119	
0.50000	0.052660	0.213607	0.070938
6.24E-06	0.017250	4.484721	
0.75000	0.052660	0.243482	0.070938
6.24E-06	0.106517	4.374550	
1.00000	0.052660	0.275123	0.070938
6.24E-06	0.197542	4.236670	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.282245	-0.204744	-0.075259
-0.000336	-0.187273	-1.526526	
0.25000	-0.282245	-0.173113	-0.075259
-0.000336	-0.093697	-1.386332	
0.50000	-0.282245	-0.143236	-0.075259
-0.000336	-0.003892	-1.300390	
0.75000	-0.282245	-0.111459	-0.075259
-0.000336	-0.087273	-1.215798	
1.00000	-0.282245	-0.087368	-0.075259
-0.000336	-0.175472	-1.185066	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.265059	0.730369	0.111890
0.000134	0.280181	9.638874	
0.25000	0.265059	1.454763	0.111890
0.000134	0.141549	11.189252	
0.50000	0.265059	2.408093	0.111890
0.000134	0.034242	11.270151	
0.75000	0.265059	3.304340	0.111890
0.000134	0.183287	10.876724	
1.00000	0.265059	4.253555	0.111890
0.000134	0.337140	8.981770	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.413202	-4.120367	-0.126367
-0.000626	-0.305572	-5.084840	
0.25000	-0.413202	-3.171427	-0.126367
-0.000626	-0.151297	-3.290161	
0.50000	-0.413202	-2.275121	-0.126367
-0.000626	-0.008053	-3.123046	
0.75000	-0.413202	-1.321828	-0.126367
-0.000626	-0.138036	-2.996434	
1.00000	-0.413202	-0.599078	-0.126367
-0.000626	-0.276841	-4.485600	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4377

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.159445	1.287385	0.114435
0.000383	0.283510	15.734186	
0.25000	0.159445	2.439171	0.114435
0.000383	0.143270	18.154690	
0.50000	0.159445	3.954967	0.114435
0.000383	0.052213	18.971328	
0.75000	0.159445	5.379998	0.114435
0.000383	0.249728	17.700965	
1.00000	0.159445	6.889250	0.114435
0.000383	0.458479	14.842837	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.516348	-6.712853	-0.170846
-0.000775	-0.405793	-7.498783	
0.25000	-0.516348	-5.204038	-0.170846
-0.000775	-0.195816	-4.680015	
0.50000	-0.516348	-3.778911	-0.170846
-0.000775	-0.011210	-4.449075	
0.75000	-0.516348	-2.263175	-0.170846
-0.000775	-0.146373	-4.282535	
1.00000	-0.516348	-1.114003	-0.170846
-0.000775	-0.288379	-6.685081	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.252986	6.841404	0.135364
0.000642	0.336351	25.003232	
0.25000	0.252986	19.119879	0.135364
0.000642	0.177167	56.252389	
0.50000	0.252986	35.278836	0.135364
0.000642	0.083070	68.368459	
0.75000	0.252986	50.470210	0.135364
0.000642	0.290440	55.649621	
1.00000	0.252986	66.559402	0.135364
0.000642	0.529629	24.079004	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.686246	-66.373152	-0.198506
-0.000816	-0.486412	-46.558947	
0.25000	-0.686246	-50.288614	-0.198506
-0.000816	-0.242216	-18.486575	
0.50000	-0.686246	-35.096223	-0.198506
-0.000816	-0.031022	-18.001429	
0.75000	-0.686246	-18.937905	-0.198506
-0.000816	-0.179742	-18.202797	
1.00000	-0.686246	-6.687293	-0.198506
-0.000816	-0.345442	-45.791610	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.582064	0.405626	0.183535
0.000661	0.460380	9.295112	
0.25000	0.582064	0.413779	0.183535
0.000661	0.232905	9.129837	
0.50000	0.582064	0.433223	0.183535
0.000661	0.030526	8.975495	
0.75000	0.582064	0.454405	0.183535
0.000661	0.198312	8.858929	
1.00000	0.582064	0.472999	0.183535
0.000661	0.382329	8.774101	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.035618	-0.448998	-0.148281
-0.000290	-0.356458	-2.024229	
0.25000	-0.035618	-0.430406	-0.148281
-0.000290	-0.172740	-1.868424	
0.50000	-0.035618	-0.409225	-0.148281
-0.000290	-0.004699	-1.740656	
0.75000	-0.035618	-0.389782	-0.148281
-0.000290	-0.226378	-1.613246	
1.00000	-0.035618	-0.381633	-0.148281
-0.000290	-0.453957	-1.514056	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4378

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.625409	13.302232	0.240581
0.000805	0.504149	26.390611	
0.25000	0.625409	26.282829	0.240581
0.000805	0.324548	66.322079	
0.50000	0.625409	57.236981	0.240581
0.000805	0.098215	88.957395	
0.75000	0.625409	90.959367	0.240581
0.000805	0.402312	65.862186	
1.00000	0.625409	120.560192	0.240581
0.000805	0.737594	25.425739	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.339267	-120.472780	-0.281656
-0.000372	-0.690849	-72.524036	
0.25000	-0.339267	-90.874980	-0.281656
-0.000372	-0.346392	-27.351475	
0.50000	-0.339267	-57.154430	-0.281656
-0.000372	-0.035641	-27.021616	
0.75000	-0.339267	-26.201561	-0.281656
-0.000372	-0.323907	-27.157774	
1.00000	-0.339267	-13.227396	-0.281656
-0.000372	-0.622323	-71.842745	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.594484	9.898949	0.253663
0.000929	0.632785	28.551135	
0.25000	0.594484	19.115825	0.253663
0.000929	0.331512	56.626743	
0.50000	0.594484	41.094829	0.253663
0.000929	0.103673	72.497295	
0.75000	0.594484	65.039417	0.253663
0.000929	0.467514	55.982376	
1.00000	0.594484	86.057491	0.253663
0.000929	0.860818	27.222985	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.399985	-85.949940	-0.325011
-0.000569	-0.776816	-53.766509	
0.25000	-0.399985	-64.934015	-0.325011
-0.000569	-0.376874	-21.556485	
0.50000	-0.399985	-40.990730	-0.325011
-0.000569	-0.030910	-21.186977	
0.75000	-0.399985	-19.012637	-0.325011
-0.000569	-0.335995	-21.148076	
1.00000	-0.399985	-9.800328	-0.325011
-0.000569	-0.650128	-52.741418	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.633396	8.363640	0.283307
0.000807	0.705826	27.811290	
0.25000	0.633396	16.013794	0.283307
0.000807	0.365093	50.996719	
0.50000	0.633396	34.256717	0.283307
0.000807	0.101267	64.076535	
0.75000	0.633396	54.131107	0.283307
0.000807	0.502522	50.308095	
1.00000	0.633396	71.576442	0.283307
0.000807	0.930538	26.383508	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.486436	-71.449260	-0.351713
-0.000652	-0.838827	-45.824764	
0.25000	-0.486436	-54.005708	-0.351713
-0.000652	-0.405667	-19.021728	
0.50000	-0.486436	-34.132400	-0.351713
-0.000652	-0.028771	-18.647003	
0.75000	-0.486436	-15.890233	-0.351713
-0.000652	-0.369881	-18.546695	
1.00000	-0.486436	-8.243870	-0.351713
-0.000652	-0.721046	-44.701777	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4379

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.023197 9.280940 0.045463
0.000188 0.111964 15.173846
0.25000 0.023197 18.380404 0.045463
0.000188 0.068197 43.157236
0.50000 0.023197 40.079420 0.045463
0.000188 0.058353 59.002467
0.75000 0.023197 63.718982 0.045463
0.000188 0.201070 42.908054
1.00000 0.023197 84.469309 0.045463
0.000188 0.355662 14.676466

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.363830 -84.407732 -0.132471
-0.000151 -0.321595 -50.148017
0.25000 -0.363830 -63.659526 -0.132471
-0.000151 -0.160105 -18.531038
0.50000 -0.363830 -40.021251 -0.132471
-0.000151 -0.023503 -18.349027
0.75000 -0.363830 -18.323134 -0.132471
-0.000151 -0.077093 -16.493742
1.00000 -0.363830 -9.228179 -0.132471
-0.000151 -0.133992 -49.866992

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.139229 9.101215 0.110226
0.000352 0.271925 21.268815
0.25000 0.139229 17.784844 0.110226
0.000352 0.147607 47.825442
0.50000 0.139229 38.492238 0.110226
0.000352 0.080586 62.857370
0.75000 0.139229 61.051498 0.110226
0.000352 0.321598 47.363295
1.00000 0.139229 80.853557 0.110226
0.000352 0.577639 20.313467

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.445486 -80.752805 -0.213863
-0.000386 -0.504653 -49.609341
0.25000 -0.445486 -60.952769 -0.213863
-0.000386 -0.243039 -19.335506
0.50000 -0.445486 -38.394738 -0.213863
-0.000386 -0.026825 -19.060471
0.75000 -0.445486 -17.688202 -0.213863
-0.000386 -0.159367 -19.096797
1.00000 -0.445486 -9.008877 -0.213863
-0.000386 -0.295529 -48.935546

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.411718 6.571622 0.210701
0.000819 0.521263 25.293393
0.25000 0.411718 12.214758 0.210701
0.000819 0.364752 42.111229
0.50000 0.411718 25.671647 0.210701
0.000819 0.089725 51.522990
0.75000 0.411718 40.331989 0.210701
0.000819 0.443428 41.437262
1.00000 0.411718 53.200538 0.210701
0.000819 0.817950 23.987740

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.498316 -53.093663 -0.306948
-0.000594 -0.722618 -34.684023
0.25000 -0.498316 -40.226428 -0.306948
-0.000594 -0.345060 -14.859481
0.50000 -0.498316 -25.566885 -0.306948
-0.000594 -0.023342 -14.529940
0.75000 -0.498316 -12.110553 -0.306948
-0.000594 -0.280510 -14.402568
1.00000 -0.498316 -6.470214 -0.306948
-0.000594 -0.541721 -33.642856

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4380

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.407959 5.613353 0.246091
0.000673 0.608674 24.977834
0.25000 0.407959 10.352657 0.246091
0.000673 0.310483 39.018707
0.50000 0.407959 21.654228 0.246091
0.000673 0.208665 46.284640
0.75000 0.407959 33.966500 0.246091
0.000673 0.498557 38.284361
1.00000 0.407959 44.773962 0.246091
0.000673 0.926505 23.534632

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.622585 -44.642957 -0.349302
-0.000674 -0.825945 -30.318403
0.25000 -0.622585 -33.836599 -0.349302
-0.000674 -0.395127 -13.602240
0.50000 -0.622585 -21.524998 -0.349302
-0.000674 -0.022659 -13.258628
0.75000 -0.622585 -10.223895 -0.349302
-0.000674 -0.322541 -13.084789
1.00000 -0.622585 -5.486940 -0.349302
-0.000674 -0.627664 -29.176559

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.086902 0.173802 0.108545
5.50E-06 0.267695 5.778721
0.25000 0.086902 0.181955 0.108545
5.50E-06 0.132641 5.654149
0.50000 0.086902 0.201399 0.108545
5.50E-06 0.022510 5.524550
0.75000 0.086902 0.222581 0.108545
5.50E-06 0.214471 5.368841
1.00000 0.086902 0.241175 0.108545
5.50E-06 0.408738 5.203912

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.391642 -0.181121 -0.156902
-0.000282 -0.375920 -1.920269
0.25000 -0.391642 -0.162529 -0.156902
-0.000282 -0.180902 -1.786735
0.50000 -0.391642 -0.141348 -0.156902
-0.000282 -0.004853 -1.681380
0.75000 -0.391642 -0.121905 -0.156902
-0.000282 -0.136575 -1.576249
1.00000 -0.391642 -0.113755 -0.156902
-0.000282 -0.271594 -1.496894

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.287262 0.666065 0.192371
0.000123 0.475342 11.336482
0.25000 0.287262 0.935135 0.192371
0.000123 0.236928 11.858649
0.50000 0.287262 1.576772 0.192371
0.000123 0.042850 12.073921
0.75000 0.287262 2.275792 0.192371
0.000123 0.340432 11.404212
1.00000 0.287262 2.889377 0.192371
0.000123 0.643624 10.392195

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.534139 -2.788825 -0.245016
-0.000517 -0.581044 -4.768319
0.25000 -0.534139 -2.175303 -0.245016
-0.000517 -0.277990 -3.646954
0.50000 -0.534139 -1.476321 -0.245016
-0.000517 -0.009146 -3.455528
0.75000 -0.534139 -0.834710 -0.245016
-0.000517 -0.242322 -3.273642
1.00000 -0.534139 -0.565774 -0.245016
-0.000517 -0.481382 -4.003160

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4381

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.208879 0.761717 0.190366
0.000333 0.467109 17.037110
0.25000 0.208879 0.769055 0.190366
0.000333 0.230561 16.517995
0.50000 0.208879 0.786554 0.190366
0.000333 0.061661 16.082794
0.75000 0.208879 0.805619 0.190366
0.000333 0.425294 15.852483
1.00000 0.208879 0.822353 0.190366
0.000333 0.797449 15.724871

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.657920 -0.699225 -0.300088
-0.000650 -0.700636 -4.579313
0.25000 -0.657920 -0.682492 -0.300088
-0.000650 -0.328470 -4.293032
0.50000 -0.657920 -0.663429 -0.300088
-0.000650 -0.011567 -4.032449
0.75000 -0.657920 -0.645931 -0.300088
-0.000650 -0.243797 -3.771672
1.00000 -0.657920 -0.638596 -0.300088
-0.000650 -0.480185 -3.536665

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.301721 5.977706 0.231458
0.000550 0.569469 24.465903
0.25000 0.301721 11.114500 0.231458
0.000550 0.290069 39.739790
0.50000 0.301721 23.363945 0.231458
0.000550 0.089247 48.249787
0.75000 0.301721 36.708859 0.231458
0.000550 0.512984 38.999043
1.00000 0.301721 48.422753 0.231458
0.000550 0.954344 23.008237

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.765662 -48.284591 -0.360190
-0.000684 -0.851625 -32.398278
0.25000 -0.765662 -36.571893 -0.360190
-0.000684 -0.407220 -14.311121
0.50000 -0.765662 -23.227706 -0.360190
-0.000684 -0.023547 -13.969815
0.75000 -0.765662 -10.978769 -0.360190
-0.000684 -0.305523 -13.812458
1.00000 -0.765662 -5.844520 -0.360190
-0.000684 -0.592949 -31.284933

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.541400 11.517699 0.151698
0.001118 0.376804 28.253493
0.25000 0.541400 34.022189 0.151698
0.001118 0.197475 85.321954
0.50000 0.541400 63.638998 0.151698
0.001118 0.090842 108.000974
0.75000 0.541400 91.482383 0.151698
0.001118 0.304201 44.789714
1.00000 0.541400 120.971324 0.151698
0.001118 0.562812 27.460404

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.686246 -120.871430 -0.213266
-0.000816 -0.522929 -80.849803
0.25000 -0.686246 -91.391019 -0.213266
-0.000816 -0.260492 -29.661966
0.50000 -0.686246 -63.545771 -0.213266
-0.000816 -0.044919 -29.037147
0.75000 -0.686246 -33.930133 -0.213266
-0.000816 -0.200746 -29.670600
1.00000 -0.686246 -11.476700 -0.213266
-0.000816 -0.386669 -80.500903

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4382

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.633396 13.302232 0.283307
0.000929 0.705826 28.551135
0.25000 0.633396 26.282829 0.283307
0.000929 0.365093 66.322079
0.50000 0.633396 57.236981 0.283307
0.000929 0.103673 88.957395
0.75000 0.633396 90.959367 0.283307
0.000929 0.512984 65.862186
1.00000 0.633396 120.560192 0.283307
0.000929 0.954344 27.222985

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.765662 -120.472780 -0.360190
-0.000684 -0.851625 -72.524036
0.25000 -0.765662 -90.874980 -0.360190
-0.000684 -0.407220 -27.351475
0.50000 -0.765662 -57.154430 -0.360190
-0.000684 -0.035641 -27.021616
0.75000 -0.765662 -26.201561 -0.360190
-0.000684 -0.369881 -27.157774
1.00000 -0.765662 -13.227396 -0.360190
-0.000684 -0.721046 -71.842745

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.633396 13.302232 0.283307
0.001118 0.705826 28.551135
0.25000 0.633396 34.022189 0.283307
0.001118 0.365093 85.321954
0.50000 0.633396 63.638998 0.283307
0.001118 0.103673 108.000974
0.75000 0.633396 91.482383 0.283307
0.001118 0.512984 84.789714
1.00000 0.633396 120.971324 0.283307
0.001118 0.954344 27.460404

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.765662 -120.871430 -0.360190
-0.000816 -0.851625 -80.849803
0.25000 -0.765662 -91.391019 -0.360190
-0.000816 -0.407220 -29.661966
0.50000 -0.765662 -63.545771 -0.360190
-0.000816 -0.044919 -29.037147
0.75000 -0.765662 -33.930133 -0.360190
-0.000816 -0.369881 -29.670600
1.00000 -0.765662 -13.227396 -0.360190
-0.000816 -0.721046 -80.500903

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.633396 13.302232 0.283307
0.001118 0.705826 28.551135
0.25000 0.633396 34.022189 0.283307
0.001118 0.365093 85.321954
0.50000 0.633396 63.638998 0.283307
0.001118 0.103673 108.000974
0.75000 0.633396 91.482383 0.283307
0.001118 0.512984 84.789714
1.00000 0.633396 120.971324 0.283307
0.001118 0.954344 27.460404

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.765662 -120.871430 -0.360190
-0.000816 -0.851625 -80.849803
0.25000 -0.765662 -91.391019 -0.360190
-0.000816 -0.407220 -29.661966
0.50000 -0.765662 -63.545771 -0.360190
-0.000816 -0.044919 -29.037147
0.75000 -0.765662 -33.930133 -0.360190
-0.000816 -0.369881 -29.670600
1.00000 -0.765662 -13.227396 -0.360190
-0.000816 -0.721046 -80.500903

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4383

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 425 ========== LENGTH = 4.972184

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.685349 0.512993 0.094856
0.001075 0.235779 8.408500
0.25000 0.685349 0.536268 0.094856
0.001075 0.117876 8.020147
0.50000 0.685349 0.568050 0.094856
0.001075 0.023722 7.672158
0.75000 0.685349 0.597925 0.094856
0.001075 0.121547 7.392436
1.00000 0.685349 0.629593 0.094856
0.001075 0.242547 7.255598

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.061967 -0.373925 -0.097344
-4.40E-06 -0.241516 -1.237115
0.25000 -0.061967 -0.342317 -0.097344
-4.40E-06 -0.120507 -1.093734
0.50000 -0.061967 -0.312437 -0.097344
-4.40E-06 -0.002876 1.004455
0.75000 -0.061967 -0.283665 -0.097344
-4.40E-06 -0.117955 -0.916259
1.00000 -0.061967 -0.256586 -0.097344
-4.40E-06 -0.235859 -0.882522

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.750950 11.584501 0.129214
0.001445 0.319503 26.811600
0.25000 0.750950 34.115368 0.129214
0.001445 0.165280 84.492633
0.50000 0.750950 63.736394 0.129214
0.001445 0.086196 106.863701
0.75000 0.750950 91.579764 0.129214
0.001445 0.261307 82.257779
1.00000 0.750950 121.095016 0.129214
0.001445 0.492876 24.966065

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.545957 -120.655906 -0.190877
-4.60E-05 -0.487602 -80.483410
0.25000 -0.545957 -91.197632 -0.190877
-4.60E-05 -0.252181 -29.410793
0.50000 -0.545957 -63.349364 -0.190877
-4.60E-05 -0.044309 -28.761395
0.75000 -0.545957 -33.737492 -0.190877
-4.60E-05 -0.168402 -29.122027
1.00000 -0.545957 -11.295584 -0.190877
-4.60E-05 -0.322963 -80.237594

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.692094 8.475038 0.142844
0.001500 0.351102 27.522707
0.25000 0.692094 23.813916 0.142844
0.001500 0.177878 66.219780
0.50000 0.692094 43.979733 0.142844
0.001500 0.085398 80.994967
0.75000 0.692094 62.935332 0.142844
0.001500 0.343430 64.000116
1.00000 0.692094 83.029138 0.142844
0.001500 0.652441 24.960904

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.550945 -82.445301 -0.251968
-0.000349 -0.622109 -56.163720
0.25000 -0.550945 -62.390285 -0.251968
-0.000349 -0.310438 -21.288527
0.50000 -0.550945 -43.431351 -0.251968
-0.000349 -0.033555 -20.741158

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4384

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.550945 -23.271767 -0.251968
-0.000349 -0.185631 -20.881413
1.00000 -0.550945 -7.993451 -0.251968
-0.000349 -0.359121 -55.575321

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.781412 7.235365 0.158441
0.001249 0.391003 26.148095
0.25000 0.781412 19.963371 0.158441
0.001249 0.197634 58.045465
0.50000 0.781412 36.696708 0.158441
0.001249 0.081476 70.141789
0.75000 0.781412 52.425822 0.158441
0.001249 0.378759 55.918710
1.00000 0.781412 69.099406 0.158441
0.001249 0.719840 23.413132

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.591707 -68.486131 -0.277280
-0.000658 -0.676976 -47.340075
0.25000 -0.591707 -51.844735 -0.277280
-0.000658 -0.333659 -16.343870
0.50000 -0.591707 -36.112854 -0.277280
-0.000658 -0.029669 -17.832456
0.75000 -0.591707 -19.384688 -0.277280
-0.000658 -0.203203 -17.891622
1.00000 -0.591707 -6.706936 -0.277280
-0.000658 -0.396777 -46.622969

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.033885 9.461354 0.031592
0.000323 0.075808 17.422941
0.25000 0.033885 28.317659 0.031592
0.000323 0.041900 65.193561
0.50000 0.033885 53.107788 0.031592
0.000323 0.058071 84.882635
0.75000 0.033885 76.410179 0.031592
0.000323 0.167119 64.460192
1.00000 0.033885 101.111785 0.031592
0.000323 0.302937 16.570589

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.575450 -100.898605 -0.113243
0.000161 -0.286631 -66.689813
0.25000 -0.575450 -76.244684 -0.113243
-0.000161 -0.147578 -23.998166
0.50000 -0.575450 -52.938194 -0.113243
-0.000161 -0.035452 -23.506207
0.75000 -0.575450 -28.155726 -0.113243
-0.000161 -0.047048 -23.859554
1.00000 -0.575450 -9.378572 -0.113243
-0.000161 -0.081263 -66.690205

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.208064 9.151313 0.066564
0.000409 0.161237 22.235708
0.25000 0.208064 26.702182 0.066564
0.000409 0.083437 67.010114
0.50000 0.208064 49.776071 0.066564
0.000409 0.072307 84.329066
0.75000 0.208064 71.465220 0.066564
0.000409 0.288075 65.104925
1.00000 0.208064 94.456715 0.066564
0.000409 0.533282 20.453331

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.608452 -94.039093 -0.201184
-0.000560 -0.491939 -63.124762

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4385

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -0.608452 -71.091983 -0.201184
-0.000560 -0.243664 -23.307518
0.50000 -0.608452 -49.399019 -0.201184
-0.000560 -0.035603 -22.768446
0.75000 -0.608452 -26.332260 -0.201184
-0.000560 -0.031633 -23.016159
1.00000 -0.608452 -8.850688 -0.201184
-0.000560 -0.169711 -62.800440

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.536949 7.201926 0.124265
0.001172 0.305234 25.521698
0.25000 0.536949 19.625330 0.124265
0.001172 0.154250 56.557366
0.50000 0.536949 35.958211 0.124265
0.001172 0.078278 68.380026
0.75000 0.536949 51.310902 0.124265
0.001172 0.342916 54.620999
1.00000 0.536949 67.585461 0.124265
0.001172 0.636958 23.014537

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.656669 -67.011103 -0.241135
-0.000599 -0.589234 -45.996025
0.25000 -0.656669 -50.767963 -0.241135
-0.000599 -0.290850 -17.710686
0.50000 -0.656669 -35.412871 -0.241135
-0.000599 -0.028447 -17.228449
0.75000 -0.656669 -19.084738 -0.241135
-0.000599 -0.161434 -17.303139
1.00000 -0.656669 -6.710385 -0.241135
-0.000599 -0.312620 -45.363874

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.485307 6.166701 0.146811
0.000978 0.362311 24.169033
0.25000 0.485307 16.573931 0.146811
0.000978 0.182724 50.030540
0.50000 0.485307 30.256175 0.146811
0.000978 0.075073 59.791000
0.75000 0.485307 43.117302 0.146811
0.000978 0.381785 48.125455
1.00000 0.485307 56.750689 0.146811
0.000978 0.714058 21.512146

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.728342 -56.171026 -0.271158
-0.000886 -0.657132 -39.244459
0.25000 -0.728342 -42.563958 -0.271158
-0.000886 -0.321244 -15.493981
0.50000 -0.728342 -29.700569 -0.271158
-0.000886 -0.025607 -15.034485
0.75000 -0.728342 -16.022553 -0.271158
-0.000886 -0.187883 -15.041532
1.00000 -0.728342 -5.656414 -0.271158
-0.000886 -0.367644 -38.492815

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.049062 0.229983 0.068867
3.83E-06 0.171915 4.245723
0.25000 0.049062 0.254158 0.068867
3.83E-06 0.086321 4.073346
0.50000 0.049062 0.285940 0.068867
3.83E-06 0.014590 3.872594
0.75000 0.049062 0.315815 0.068867

3.83E-06 0.150796 3.632991
1.00000 0.049062 0.347484 0.068867
3.83E-06 0.288445 3.367935
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4386

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.332421 -0.203543 -0.110777
-0.000589 -0.262582 -1.191490
0.25000 -0.332421 -0.171935 -0.110777
-0.000589 -0.124965 -1.050657
0.50000 -0.332421 -0.142055 -0.110777
-0.000589 -0.002797 -0.963926
0.75000 -0.332421 -0.110283 -0.110777
-0.000589 -0.084891 -0.876279
1.00000 -0.332421 -0.086203 -0.110777
-0.000589 -0.170504 -0.847089

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.343354 0.862679 0.108669
4.04E-05 0.271258 9.001708
0.25000 0.343354 1.587921 0.108669
4.04E-05 0.136362 10.350472
0.50000 0.343354 2.541388 0.108669
4.04E-05 0.029645 10.663294
0.75000 0.343354 3.437633 0.108669
4.04E-05 0.260574 9.520189
1.00000 0.343354 4.387695 0.108669
4.04E-05 0.496380 7.370016

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.459464 -4.071509 -0.189947
-0.000994 -0.449601 -4.497487
0.25000 -0.459464 -3.123281 -0.189947
-0.000994 -0.213684 -2.705305
0.50000 -0.459464 -2.226878 -0.189947
-0.000994 -0.006163 -2.536188
0.75000 -0.459464 -1.273706 -0.189947
-0.000994 -0.134166 -2.399583
1.00000 -0.459464 -0.551327 -0.189947
-0.000994 -0.269072 -3.896721

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.202518 1.459342 0.120851
0.000302 0.298054 14.896776
0.25000 0.202518 2.612478 0.120851
0.000302 0.148397 16.985745
0.50000 0.202518 4.128489 0.120851
0.000302 0.046059 17.452405
0.75000 0.202518 5.553520 0.120851
0.000302 0.353449 15.755985
1.00000 0.202518 7.064118 0.120851
0.000302 0.671600 12.566563

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.652308 -6.591526 -0.256548
-0.001084 -0.606407 -6.701541
0.25000 -0.652308 -5.083844 -0.256548
-0.001084 -0.288022 -3.888024
0.50000 -0.652308 -3.658562 -0.256548
-0.001084 -0.008682 -3.655180
0.75000 -0.652308 -2.143019 -0.256548
-0.001084 -0.152843 -3.474030
1.00000 -0.652308 -0.994436 -0.256548
-0.001084 -0.302822 -5.890531

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.325097 6.996066 0.141259
0.000752 0.348601 24.153171
0.25000 0.325097 19.288927 0.141259
0.000752 0.176455 54.966562
0.50000 0.325097 35.450184 0.141259
0.000752 0.076569 66.693294
0.75000 0.325097 50.641551 0.141259
0.000752 0.398142 53.201380
1.00000 0.325097 66.745098 0.141259
0.000752 0.745969 21.568220
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4387

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.893783 -66.193654 -0.282811
-0.000988 -0.678215 -45.791965
0.25000 -0.893783 -50.121194 -0.282811
-0.000988 -0.328196 -17.781419
0.50000 -0.893783 -34.927155 -0.282811
-0.000988 -0.028859 -17.281823
0.75000 -0.893783 -18.770893 -0.282811
-0.000988 -0.181407 -17.333317
1.00000 -0.893783 -6.526568 -0.282811
-0.000988 -0.353748 -45.076756

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.872161 0.511607 0.182783
0.001029 0.453676 8.805875
0.25000 0.872161 0.519802 0.182783
0.001029 0.226890 8.396477
0.50000 0.872161 0.539249 0.182783
0.001029 0.027445 8.034683
0.75000 0.872161 0.560430 0.182783
0.001029 0.240215 7.689905
1.00000 0.872161 0.579013 0.182783
0.001029 0.464575 7.388277

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.102708 -0.345525 -0.180375
-4.36E-06 -0.432214 -1.568411
0.25000 -0.102708 -0.326931 -0.180375
-4.36E-06 -0.208151 -1.414414
0.50000 -0.102708 -0.305751 -0.180375
-4.36E-06 -0.003448 -1.288420
0.75000 -0.102708 -0.286311 -0.180375
-4.36E-06 -0.226621 -1.162933
1.00000 -0.102708 -0.278173 -0.180375
-4.36E-06 -0.455673 -1.065574

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.952101 13.271666 0.242682
0.001337 0.599126 25.501072
0.25000 0.952101 26.317760 0.242682
0.001337 0.316182 65.158771
0.50000 0.952101 57.276695 0.242682
0.001337 0.093300 87.406024
0.75000 0.952101 90.996726 0.242682
0.001337 0.489910 63.850949
1.00000 0.952101 120.581139 0.242682
0.001337 0.913647 23.158873

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.532637 -120.233288 -0.352830
-3.91E-05 -0.864351 -71.869676
0.25000 -0.532637 -90.631718 -0.352830
-3.91E-05 -0.429419 -26.778282
0.50000 -0.532637 -56.912534 -0.352830
-3.91E-05 -0.034182 -26.325995
0.75000 -0.532637 -25.964404 -0.352830
-3.91E-05 -0.326138 -26.137265
1.00000 -0.532637 -13.008661 -0.352830
-3.91E-05 -0.624085 -70.908433

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.897836 9.984219 0.263700
0.001386 0.648705 27.321872
0.25000 0.897836 19.247822 0.263700
0.001386 0.334179 55.008952
0.50000 0.897836 41.230001 0.263700
0.001386 0.096417 70.376028
0.75000 0.897836 65.172917 0.263700
0.001386 0.597757 53.294587
1.00000 0.897836 86.179337 0.263700
0.001386 1.124752 24.125968
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4388

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.595881 -85.684734 -0.432281
-0.000284 -1.042210 -52.776255
0.25000 -0.595881 -64.666132 -0.432281
-0.000284 -0.507452 -20.624299
0.50000 -0.595881 -40.723817 -0.432281
-0.000284 -0.028323 -20.168314
0.75000 -0.595881 -18.749090 -0.432281
-0.000284 -0.348882 -19.899021
1.00000 -0.595881 -9.549861 -0.432281
-0.000284 -0.674188 -51.552707

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.925357 8.500022 0.292797
0.001154 0.721501 26.463088
0.25000 0.925357 16.188777 0.292797
0.001154 0.368512 49.224766
0.50000 0.925357 34.434518 0.292797
0.001154 0.093114 61.769454
0.75000 0.925357 54.307520 0.292797
0.001154 0.646805 47.422423
1.00000 0.925357 71.743183 0.292797
0.001154 1.223519 23.058841

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.660408 -71.207096 -0.470946
-0.000560 -1.132863 -44.724304
0.25000 -0.660408 -53.761321 -0.470946
-0.000560 -0.549733 -17.968802
0.50000 -0.660408 -33.888819 -0.470946
-0.000560 -0.025732 -17.521664
0.75000 -0.660408 -15.649445 -0.470946
-0.000560 -0.381860 -17.229448
1.00000 -0.660408 -8.013939 -0.470946
-0.000560 -0.743821 -43.433853

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.048693 9.214701 0.051249
0.000259 0.124017 14.729414
0.25000 0.048693 18.360079 0.051249
0.000259 0.072826 42.609295
0.50000 0.048693 40.062447 0.051249
0.000259 0.055496 58.273924
0.75000 0.048693 63.700358 0.051249
0.000259 0.257092 41.932189
1.00000 0.048693 84.439181 0.051249
0.000259 0.470217 13.632657

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.501388 -84.285772 -0.180026
-0.000136 -0.441804 -49.847343
0.25000 -0.501388 -63.534922 -0.180026
-0.000136 -0.220599 -18.285965
0.50000 -0.501388 -39.897605 -0.180026
-0.000136 -0.022805 -18.017046
0.75000 -0.501388 -18.202811 -0.180026
-0.000136 -0.080801 -17.932089
1.00000 -0.501388 -9.120770 -0.180026
-0.000136 -0.142209 -49.364692

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.202089 9.122516 0.121038
0.000341 0.294975 20.379808
0.25000 0.202089 17.849960 0.121038
0.000341 0.156876 46.694155
0.50000 0.202089 38.560554 0.121038
0.000341 0.074844 61.381543
0.75000 0.202089 61.118238 0.121038
0.000341 0.429735 45.503546
1.00000 0.202089 80.909318 0.121038
0.000341 0.798339 18.197265
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4389

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.589365 -80.569593 -0.305059
-0.000459 -0.735374 -48.915856
0.25000 -0.589365 -60.767035 -0.305059
-0.000459 -0.358876 -18.695080
0.50000 -0.589365 -38.209918 -0.305059
-0.000459 -0.025006 -18.336577
0.75000 -0.589365 -17.506552 -0.305059
-0.000459 -0.168966 -18.153695
1.00000 -0.589365 -8.839550 -0.305059
-0.000459 -0.316753 -48.047169

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.608596 6.703971 0.227319
0.001054 0.557644 24.092319
0.25000 0.608596 12.375580 0.227319
0.001054 0.282794 40.531732
0.50000 0.608596 25.834549 0.227319
0.001054 0.082114 49.458597
0.75000 0.608596 40.493867 0.227319
0.001054 0.582768 38.827038
1.00000 0.608596 53.355282 0.227319
0.001054 1.098486 20.979740

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.694922 -52.865198 -0.420464
-0.000514 -1.006555 -33.668074
0.25000 -0.694922 -39.996324 -0.420464
-0.000514 -0.485468 -13.879657
0.50000 -0.694922 -25.337375 -0.420464
-0.000514 -0.020533 -13.497471
0.75000 -0.694922 -11.883104 -0.420464
-0.000514 -0.298145 -13.229169
1.00000 -0.694922 -6.250773 -0.420464
-0.000514 -0.579265 -32.510552

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.581072 5.792752 0.262162
0.000880 0.644289 23.617615
0.25000 0.581072 10.559970 0.262162
0.000880 0.324903 37.237893
0.50000 0.581072 21.859287 0.262162
0.000880 0.081179 44.553110
0.75000 0.581072 34.170699 0.262162
0.000880 0.652699 35.434717
1.00000 0.581072 44.972169 0.262162
0.000880 1.238302 20.255908

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.811762 -44.445122 -0.475730
-0.000792 -1.139398 -29.187596
0.25000 -0.811762 -33.637388 -0.475730
-0.000792 -0.549293 -12.500745
0.50000 -0.811762 -21.326286 -0.475730
-0.000792 -0.019502 -12.112230
0.75000 -0.811762 -10.026913 -0.475730
-0.000792 -0.339544 -11.819315
1.00000 -0.811762 -5.296684 -0.475730
-0.000792 -0.664123 -27.945071

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.086836 0.282027 0.112299
3.67E-06 0.277467 5.197941
0.25000 0.086836 0.290222 0.112299
3.67E-06 0.137900 4.926911
0.50000 0.086836 0.309669 0.112299
3.67E-06 0.018904 4.646068
0.75000 0.086836 0.330850 0.112299
3.67E-06 0.272816 4.346132
1.00000 0.086836 0.349433 0.112299
3.67E-06 0.528691 4.037102
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4390

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.454281 -0.172570 -0.205857
-0.000580 -0.495066 -1.478729
0.25000 -0.454281 -0.153976 -0.205857
-0.000580 -0.239269 -1.344531
0.50000 -0.454281 -0.132796 -0.205857
-0.000580 -0.003467 -1.238358
0.75000 -0.454281 -0.113356 -0.205857
-0.000580 -0.140716 -1.132475
1.00000 -0.454281 -0.105218 -0.205857
-0.000580 -0.280288 -1.053844

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.350772 0.844525 0.197470
3.38E-05 0.488333 10.389780
0.25000 0.350772 1.114953 0.197470
3.38E-05 0.243146 10.632868
0.50000 0.350772 1.756689 0.197470
3.38E-05 0.036696 10.552335
0.75000 0.350772 2.455660 0.197470
3.38E-05 0.256859 9.600262
1.00000 0.350772 3.068904 0.197470
3.38E-05 0.852534 8.330352

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.600629 -2.735487 -0.330406
-0.000922 -0.791453 -3.980100
0.25000 -0.600629 -2.121886 -0.330406
-0.000922 -0.381148 -2.860352
0.50000 -0.600629 -1.422933 -0.330406
-0.000922 -0.006734 -2.665927
0.75000 -0.600629 -0.781421 -0.330406
-0.000922 -0.247397 -2.476970
1.00000 -0.600629 -0.512866 -0.330406
-0.000922 -0.492989 -3.220057

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.255489 0.993840 0.205126
0.000262 0.503979 15.768333
0.25000 0.255489 1.001215 0.205126
0.000262 0.248905 14.880150
0.50000 0.255489 1.018717 0.205126
0.000262 0.053577 14.030946
0.75000 0.255489 1.037780 0.205126
0.000262 0.568055 13.382257
1.00000 0.255489 1.054505 0.205126
0.000262 1.089759 12.862305

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.792519 -0.588408 -0.419960
-0.000997 -0.998955 -3.522708
0.25000 -0.792519 -0.571674 -0.419960
-0.000997 -0.477167 -3.235728
0.50000 -0.792519 -0.552611 -0.419960
-0.000997 -0.008264 -2.974078
0.75000 -0.792519 -0.535115 -0.419960
-0.000997 -0.260211 -2.712594
1.00000 -0.792519 -0.527791 -0.419960
-0.000997 -0.515157 -2.476148

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.406991 6.151084 0.247191
0.000666 0.607461 23.084595
0.25000 0.406991 11.313797 0.247191
0.000666 0.307383 37.957715
0.50000 0.406991 23.565134 0.247191
0.000666 0.080509 45.981030
0.75000 0.406991 36.909116 0.247191
0.000666 0.670982 36.203966
1.00000 0.406991 48.616516 0.247191
0.000666 1.275523 19.804187
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4391

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.977546 -48.105175 -0.491126
-0.000906 -1.176206 -31.277716
0.25000 -0.977546 -36.390985 -0.491126
-0.000906 -0.567114 -13.221970
0.50000 -0.977546 -23.047339 -0.491126
-0.000906 -0.020274 -12.832651
0.75000 -0.977546 -10.800277 -0.491126
-0.000906 -0.321422 -12.549824
1.00000 -0.977546 -5.673319 -0.491126
-0.000906 -0.627222 -30.058234

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.781412 11.584501 0.158441
0.001500 0.391003 27.527207
0.25000 0.781412 34.115368 0.158441
0.001500 0.197634 84.492633
0.50000 0.781412 63.736394 0.158441
0.001500 0.086196 106.863701
0.75000 0.781412 91.579764 0.158441
0.001500 0.398142 82.257779
1.00000 0.781412 121.095016 0.158441
0.001500 0.745969 24.966065

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.893783 -120.655906 -0.282811
-0.001084 -0.678215 -80.483410
0.25000 -0.893783 -91.197632 -0.282811
-0.001084 -0.333659 -29.410793
0.50000 -0.893783 -63.349364 -0.282811
-0.001084 -0.044309 -28.761395
0.75000 -0.893783 -33.737492 -0.282811
-0.001084 -0.103207 -29.122027
1.00000 -0.893783 -11.295584 -0.282811
-0.001084 -0.396777 -80.237594

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.952101 13.271666 0.292797
0.001386 0.721501 27.321372
0.25000 0.952101 26.317760 0.292797
0.001386 0.368512 65.158771
0.50000 0.952101 57.276695 0.292797
0.001386 0.096417 87.406024
0.75000 0.952101 90.996726 0.292797
0.001386 0.670982 63.850949
1.00000 0.952101 120.581139 0.292797
0.001386 1.275523 24.125968

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.977546 -120.233288 -0.491126
-0.000997 -1.176206 -71.869676
0.25000 -0.977546 -90.631718 -0.491126
-0.000997 -0.567114 -26.778282
0.50000 -0.977546 -56.912534 -0.491126
-0.000997 -0.034182 -26.325995
0.75000 -0.977546 -25.964404 -0.491126
-0.000997 -0.381860 -26.137265
1.00000 -0.977546 -13.008661 -0.491126
-0.000997 -0.743821 -70.908433

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.952101 13.271666 0.292797
0.001500 0.721501 27.527207
0.25000 0.952101 34.115368 0.292797
0.001500 0.368512 84.492633
0.50000 0.952101 63.736394 0.292797
0.001500 0.096417 106.863701
0.75000 0.952101 91.579764 0.292797
0.001500 0.670982 82.257779
1.00000 0.952101 121.095016 0.292797
0.001500 1.275523 24.966065
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4392

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.977546 -120.655906 -0.491126
-0.001084 -1.176206 -80.483410
0.25000 -0.977546 -91.197632 -0.491126
-0.001084 -0.567114 -29.410793
0.50000 -0.977546 -63.349364 -0.491126
-0.001084 -0.044309 -28.761395
0.75000 -0.977546 -33.737492 -0.491126
-0.001084 -0.381860 -29.122027
1.00000 -0.977546 -13.008661 -0.491126
-0.001084 -0.743821 -80.237594

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.952101 13.271666 0.292797
0.001500 0.721501 27.527207
0.25000 0.952101 34.115368 0.292797
0.001500 0.368512 84.492633
0.50000 0.952101 63.736394 0.292797
0.001500 0.096417 106.863701
0.75000 0.952101 91.579764 0.292797
0.001500 0.670982 82.257779
1.00000 0.952101 121.095016 0.292797
0.001500 1.275523 24.966065

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.977546 -120.655906 -0.491126
-0.001084 -1.176206 -80.483410
0.25000 -0.977546 -91.197632 -0.491126
-0.001084 -0.567114 -29.410793
0.50000 -0.977546 -63.349364 -0.491126
-0.001084 -0.044309 -28.761395
0.75000 -0.977546 -33.737492 -0.491126
-0.001084 -0.381860 -29.122027
1.00000 -0.977546 -13.008661 -0.491126
-0.001084 -0.743821 -80.237594

ELEM 426 ========== LENGTH = 4.972939

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.862338 0.413033 0.095827
0.001459 0.237425 7.277918
0.25000 0.862338 0.437283 0.095827
0.001459 0.118290 6.953019
0.50000 0.862338 0.469189 0.095827
0.001459 0.022349 6.665142
0.75000 0.862338 0.499081 0.095827
0.001459 0.136060 6.424659
1.00000 0.862338 0.531499 0.095827
0.001459 0.256620 6.249762

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.090276	-0.379999	-0.099355
-4.61E-06	-0.245806	-0.901296	
0.25000	-0.090276	-0.348408	-0.099355
-4.61E-06	-0.122274	-0.790437	
0.50000	-0.090276	-0.318418	-0.099355
-4.61E-06	-0.002679	-0.732586	
0.75000	-0.090276	-0.286669	-0.099355
-4.61E-06	-0.119980	-0.674921	
1.00000	-0.090276	-0.262823	-0.099355
-4.61E-06	-0.239116	-0.673674	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.936930	10.390295	0.134031
0.001882	0.330804	24.978964	
0.25000	0.936930	32.990870	0.134031
0.001882	0.164156	82.679270	
0.50000	0.936930	62.727608	0.134031
0.001882	0.083318	104.820321	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4393

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.936930	90.586895	0.134031
0.001882	0.314521	74.344304	
1.00000	0.936930	120.800700	0.134031
0.001882	0.580664	23.911927	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.683050	-120.665513	-0.220878
-4.96E-05	-0.548567	-80.277092	
0.25000	-0.683050	-91.223183	-0.220878
-4.96E-05	-0.278569	-29.290738	
0.50000	-0.683050	-63.272649	-0.220878
-4.96E-05	-0.042454	-27.640503	
0.75000	-0.683050	-33.682131	-0.220878
-4.96E-05	-0.169066	-26.128798	
1.00000	-0.683050	-11.458168	-0.220878
-4.96E-05	-0.335709	-77.168334	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.862195	7.536419	0.152311
0.001624	0.374474	24.989465	
0.25000	0.862195	22.922755	0.152311
0.001624	0.185072	63.787598	
0.50000	0.862195	43.167347	0.152311
0.001624	0.081524	78.497936	
0.75000	0.862195	62.133783	0.152311
0.001624	0.423560	57.585381	
1.00000	0.862195	82.703160	0.152311
0.001624	0.797328	23.294130	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.712596	-82.534028	-0.305450
-0.000440	-0.743013	-55.617141	
0.25000	-0.712596	-62.489866	-0.305450
-0.000440	-0.366380	-20.833735	
0.50000	-0.712596	-43.461310	-0.305450
-0.000440	-0.031806	-19.638078	
0.75000	-0.712596	-23.316264	-0.305450
-0.000440	-0.193543	-18.536745	
1.00000	-0.712596	-8.186324	-0.305450
-0.000440	-0.382936	-53.211978	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.959566	6.452489	0.165658
0.001353	0.408376	23.462750	
0.25000	0.959566	19.219874	0.165658
0.001353	0.202584	55.450521	
0.50000	0.959566	36.018578	0.165658
0.001353	0.076842	67.475212	
0.75000	0.959566	51.756684	0.165658
0.001353	0.469591	49.988525	
1.00000	0.959566	68.824891	0.165658
0.001353	0.890001	21.414584	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.722750	-68.572259	-0.342177
-0.000894	-0.829443	-46.664743	
0.25000	-0.722750	-51.939870	-0.342177
-0.000894	-0.406653	-17.759333	
0.50000	-0.722750	-36.150217	-0.342177
-0.000894	-0.027882	-16.724610	
0.75000	-0.722750	-19.434114	-0.342177
-0.000894	-0.209425	-15.768187	
1.00000	-0.722750	-6.879483	-0.342177
-0.000894	-0.415404	-44.498751	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.049340	8.511367	0.037494
0.000254	0.090874	16.565193	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4394

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.049340	27.426012	0.037494
0.000254	0.044214	65.063197	
0.50000	0.049340	52.312981	0.037494
0.000254	0.056292	83.811686	
0.75000	0.049340	75.628694	0.037494
0.000254	0.201854	58.532130	
1.00000	0.049340	100.914925	0.037494
0.000254	0.372699	16.446002	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.713437	-100.913117	-0.143005
-0.000178	-0.363845	-66.709689	
0.25000	-0.713437	-76.272540	-0.143005
-0.000178	-0.186141	-24.069508	
0.50000	-0.713437	-52.880462	-0.143005
-0.000178	-0.033914	-22.719148	
0.75000	-0.713437	-28.115865	-0.143005
-0.000178	-0.048914	-21.484673	
1.00000	-0.713437	-9.516412	-0.143005
-0.000178	-0.095571	-64.230823	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.254295	8.198259	0.075738
0.000122	0.184556	20.471498	
0.25000	0.254295	25.803428	0.075738
0.000122	0.090348	65.323979	
0.50000	0.254295	48.967453	0.075738
0.000122	0.069012	82.514996	
0.75000	0.254295	70.669001	0.075738
0.000122	0.355276	58.800670	
1.00000	0.254295	94.204647	0.075738
0.000122	0.669562	19.576535	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.755770	-94.124845	-0.258135
-0.000731	-0.637948	-62.828916	
0.25000	-0.755770	-71.190155	-0.258135
-0.000731	-0.317151	-23.082492	
0.50000	-0.755770	-49.417528	-0.258135
-0.000731	-0.033729	-21.767363	
0.75000	-0.755770	-26.367403	-0.258135
-0.000731	-0.097859	-20.560095	
1.00000	-0.755770	-9.055604	-0.258135
-0.000731	-0.192049	-60.288660	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.632089	6.402820	0.132879
0.001159	0.326551	23.044922	
0.25000	0.632089	18.864660	0.132879
0.001159	0.161299	54.193167	
0.50000	0.632089	35.261344	0.132879
0.001159	0.074244	65.972814	
0.75000	0.632089	50.622812	0.132879
0.001159	0.436652	49.139059	
1.00000	0.632089	67.282548	0.132879
0.001159	0.827038	21.500221	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.815375	-67.138097	-0.318003
-0.000662	-0.771665	-45.400831	
0.25000	-0.815375	-50.903748	-0.318003
-0.000662	-0.376599	-17.200156	
0.50000	-0.815375	-35.491967	-0.318003
-0.000662	-0.026738	-16.203159	
0.75000	-0.815375	-19.175908	-0.318003
-0.000662	-0.168877	-15.282570	
1.00000	-0.815375	-6.921729	-0.318003
-0.000662	-0.334215	-43.338464	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4395

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.571129	5.512000	0.153412
0.000966	0.378200	21.566007	
0.25000	0.571129	15.951429	0.153412
0.000966	0.187415	47.475511	
0.50000	0.571129	29.687121	0.153412
0.000966	0.070288	57.156601	
0.75000	0.571129	42.555601	0.153412
0.000966	0.483901	42.865138	
1.00000	0.571129	56.511656	0.153412
0.000966	0.921738	19.531488	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.866561	-56.261062	-0.355563
-0.001090	-0.860948	-38.530068	
0.25000	-0.866561	-42.661360	-0.355563
-0.001090	-0.419194	-14.864038	
0.50000	-0.866561	-29.750732	-0.355563
-0.001090	-0.023825	-13.986845	
0.75000	-0.866561	-16.082580	-0.355563
-0.001090	-0.193906	-13.173688	
1.00000	-0.866561	-5.817112	-0.355563
-0.001090	-0.384681	-36.634542	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.046225	0.264585	0.067850
6.80E-07	0.168666	3.414011	
0.25000	0.046225	0.288835	0.067850
6.80E-07	0.084298	3.172648	
0.50000	0.046225	0.320741	0.067850
6.80E-07	0.012242	2.899608	
0.75000	0.046225	0.350633	0.067850
6.80E-07	0.187573	2.577190	
1.00000	0.046225	0.383052	0.067850
6.80E-07	0.363571	2.230680	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.355202	-0.189315	-0.141783
-0.000851	-0.341689	-0.856323	
0.25000	-0.355202	-0.157724	-0.141783
-0.000851	-0.165419	-0.736278	
0.50000	-0.355202	-0.127734	-0.141783
-0.000851	-0.002236	-0.669170	
0.75000	-0.355202	-0.095985	-0.141783
-0.000851	-0.084379	-0.602210	
1.00000	-0.355202	-0.072139	-0.141783
-0.000851	-0.168747	-0.591770	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.389235	0.841624	0.107208
5.54E-06	0.266310	7.441518	
0.25000	0.389235	1.569110	0.107208
5.54E-06	0.133085	6.778430	
0.50000	0.389235	2.526301	0.107208
5.54E-06	0.025877	9.003662	
0.75000	0.389235	3.423060	0.107208
5.54E-06	0.325646	7.621402	
1.00000	0.389235	4.395607	0.107208
5.54E-06	0.629804	5.614515	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.469660	-4.104430	-0.245020
-0.001430	-0.589856	-3.914904	
0.25000	-0.469660	-3.156716	-0.245020
-0.001430	-0.285347	-2.162459	
0.50000	-0.469660	-2.257020	-0.245020
-0.001430	-0.005181	-1.998084	
0.75000	-0.469660	-1.304536	-0.245020
-0.001430	-0.133903	-1.838167	
1.00000	-0.469660	-0.589172	-0.245020
-0.001430	-0.267222	-3.370008	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4396

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.230222	1.314999	0.126516
8.45E-06	0.311766	12.637790	
0.25000	0.230222	2.471703	0.126516
8.45E-06	0.154421	14.763479	
0.50000	0.230222	3.993637	0.126516
8.45E-06	0.041361	15.238795	
0.75000	0.230222	5.419482	0.126516
8.45E-06	0.443315	13.281180	
1.00000	0.230222	6.965832	0.126516
8.45E-06	0.855546	10.469301	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.760915	-6.682386	-0.332182
-0.001514	-0.798313	-5.915549	
0.25000	-0.760915	-5.175520	-0.332182
-0.001514	-0.385471	-3.160149	
0.50000	-0.760915	-3.745005	-0.332182
-0.001514	-0.007393	-2.929781	
0.75000	-0.760915	-2.230554	-0.332182
-0.001514	-0.159974	-2.706502	
1.00000	-0.760915	-1.093126	-0.332182
-0.001514	-0.317362	-5.172979	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.365630	6.292737	0.147593
0.000662	0.363836	21.626539	
0.25000	0.365630	18.623631	0.147593
0.000662	0.180286	52.455523	
0.50000	0.365630	34.848020	0.147593
0.000662	0.071482	64.052250	
0.75000	0.365630	50.048071	0.147593
0.000662	0.499042	47.220821	
1.00000	0.365630	66.532749	0.147593
0.000662	0.951249	19.601972	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.044296	-66.272906	-0.367687
-0.001270	-0.894129	-45.112548	
0.25000	-1.044296	-50.209146	-0.367687
-0.001270	-0.437239	-17.186250	
0.50000	-1.044296	-34.959310	-0.367687
-0.001270	-0.026880	-16.177760	
0.75000	-1.044296	-18.814698	-0.367687
-0.001270	-0.186577	-15.2248447	
1.00000	-1.044296	-6.689285	-0.367687
-0.001270	-0.370112	-42.984060	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.114368	0.416359	0.188655
0.001562	0.465589	7.447564	
0.25000	1.114368	0.425251	0.188655
0.001562	0.231064	7.124063	
0.50000	1.114368	0.444775	0.188655
0.001562	0.026792	6.822250	
0.75000	1.114368	0.465966	0.188655
0.001562	0.292914	6.548199	
1.00000	1.114368	0.484383	0.188655
0.001562	0.564427	6.320541	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.158206	-0.330160	-0.218827
-4.54E-06	-0.525902	-1.120857	
0.25000	-0.158206	-0.311490	-0.218827
-4.54E-06	-0.253774	-1.012250	
0.50000	-0.158206	-0.290252	-0.218827
-4.54E-06	-0.003682	-0.930718	
0.75000	-0.158206	-0.270836	-0.218827
-4.54E-06	-0.237910	-0.849372	
1.00000	-0.158206	-0.262870	-0.218827
-4.54E-06	-0.472510	-0.798301	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4397

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.225604	11.873012	0.256053
0.001905	0.630225	23.241909	
0.25000	1.225604	26.028948	0.256053
0.001905	0.321843	62.981452	
0.50000	1.225604	57.111119	0.256053
0.001905	0.090005	84.461649	
0.75000	1.225604	90.832353	0.256053
0.001905	0.558348	80.158362	
1.00000	1.225604	120.166962	0.256053
0.001905	1.105507	19.883013	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.690243	-119.731230	-0.430554
-4.14E-05	-1.051040	-70.991633	
0.25000	-0.690243	-90.008315	-0.430554
-4.14E-05	-0.519515	-26.365531	
0.50000	-0.690243	-56.197333	-0.430554
-4.14E-05	-0.033147	-24.734471	
0.75000	-0.690243	-25.287428	-0.430554
-4.14E-05	-0.333827	-23.311731	
1.00000	-0.690243	-12.605647	-0.430554
-4.14E-05	-0.645068	-68.084614	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.150966	8.883865	0.282071
0.001661	0.692834	24.221668	
0.25000	1.150966	18.935290	0.282071
0.001661	0.349189	52.102444	
0.50000	1.150966	41.005194	0.282071
0.001661	0.092437	67.039225	
0.75000	1.150966	64.948965	0.282071
0.001661	0.734581	49.527860	
1.00000	1.150966	85.778011	0.282071
0.001661	1.394688	20.795169	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.776864	-85.369079	-0.541303
-0.000362	-1.308437	-51.630910	
0.25000	-0.776864	-64.264316	-0.541303
-0.000362	-0.637963	-19.851947	
0.50000	-0.776864	-40.256819	-0.541303
-0.000362	-0.027061	-18.603865	
0.75000	-0.776864	-18.309234	-0.541303
-0.000362	-0.365321	-17.502341	
1.00000	-0.776864	-9.304532	-0.541303
-0.000362	-0.711023	-49.201255	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.160923	7.589953	0.309298
0.001384	0.760892	23.155781	
0.25000	1.160923	15.933796	0.309298
0.001384	0.382031	46.077443	
0.50000	1.160923	34.251168	0.309298
0.001384	0.087929	58.256095	
0.75000	1.160923	54.124879	0.309298
0.001384	0.792653	43.532508	
1.00000	1.160923	71.413319	0.309298
0.001384	1.513274	19.516554	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.810481	-70.940384	-0.588261
-0.000828	-1.421563	-43.494276	
0.25000	-0.810481	-53.423094	-0.588261
-0.000828	-0.692277	-17.068269	
0.50000	-0.810481	-33.496490	-0.588261
-0.000828	-0.024193	-15.981181	
0.75000	-0.810481	-15.279645	-0.588261
-0.000828	-0.397345	-15.016652	
1.00000	-0.810481	-7.805599	-0.588261
-0.000828	-0.777928	-41.277143	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4398

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.076286	8.262519	0.058856
0.000248	0.143120	13.656263	
0.25000	0.076286	18.185901	0.058856
0.000248	0.076978	41.589960	
0.50000	0.076286	39.974659	0.058856
0.000248	0.053180	56.713099	
0.75000	0.076286	63.613414	0.058856
0.000248	0.306391	39.851593	
1.00000	0.076286	84.177122	0.058856
0.000248	0.570827	11.848093	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.621084	-83.976613	-0.223111
-0.000148	-0.549950	-49.384394	
0.25000	-0.621084	-63.140700	-0.223111
-0.000148	-0.274446	-18.130978	
0.50000	-0.621084	-39.439032	-0.223111
-0.000148	-0.021573	-17.016626	
0.75000	-0.621084	-17.771033	-0.223111
-0.000148	-0.082510	-16.048032	
1.00000	-0.621084	-8.881041	-0.223111
-0.000148	-0.150822	-47.462463	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.253015	8.157490	0.132730
0.000111	0.324743	18.241115	
0.25000	0.253015	17.627384	0.132730
0.000111	0.166446	44.682334	
0.50000	0.253015	38.420419	0.132730
0.000111	0.070715	58.914087	
0.75000	0.253015	60.979809	0.132730
0.000111	0.526220	42.582654	
1.00000	0.253015	80.602877	0.132730
0.000111	0.995261	15.627403	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.721754	-80.283590	-0.387258
-0.000636	-0.942239	-48.068482	
0.25000	-0.721754	-60.399856	-0.387258
-0.000636	-0.462629	-18.171506	
0.50000	-0.721754	-37.781328	-0.387258
-0.000636	-0.023226	-17.036549	
0.75000	-0.721754	-17.103534	-0.387258
-0.000636	-0.176115	-16.040894	
1.00000	-0.721754	-8.619805	-0.387258
-0.000636	-0.336404	-45.948061	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.761354	5.954271	0.243892
0.001150	0.598802	21.061675	
0.25000	0.761354	12.108368	0.243892
0.001150	0.299881	37.734935	
0.50000	0.761354	25.620912	0.243892
0.001150	0.078232	46.489139	
0.75000	0.761354	40.280753	0.243892
0.001150	0.721348	35.662170	
1.00000	0.761354	53.033569	0.243892
0.001150	1.378614	18.170681	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.867087	-52.744776	-0.535226
-0.000578	-1.285572	-32.538595	
0.25000	-0.867087	-39.823150	-0.535226
-0.000578	-0.624661	-13.033462	
0.50000	-0.867087	-25.124292	-0.535226
-0.000578	-0.019119	-12.198083	
0.75000	-0.867087	-11.686638	-0.535226
-0.000578	-0.314278	-11.452856	
1.00000	-0.867087	-6.173809	-0.535226
-0.000578	-0.614511	-30.789665	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4399

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.711881	5.190084	0.278229
0.000959	0.683992	20.345693	
0.25000	0.711881	10.358512	0.278229
0.000959	0.341652	34.129990	
0.50000	0.711881	21.706824	0.278229
0.000959	0.075706	41.263400	
0.75000	0.711881	34.018675	0.278229
0.000959	0.800909	31.936216	
1.00000	0.711881	44.728940	0.278229
0.000959	1.538366	17.012862	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.965225	-44.325690	-0.598717
-0.001043	-1.444599	-27.978922	
0.25000	-0.965225	-33.473652	-0.598717
-0.001043	-0.700662	-11.529524	
0.50000	-0.965225	-21.129033	-0.598717
-0.001043	-0.017756	-10.777748	
0.75000	-0.965225	-9.843617	-0.598717
-0.001043	-0.356213	-10.101883	
1.00000	-0.965225	-5.213413	-0.598717
-0.001043	-0.699660	-26.291612	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.082513	0.340046	0.115653
4.30E-07	0.285341	4.073212	
0.25000	0.082513	0.348938	0.115653
4.30E-07	0.141450	3.726265	
0.50000	0.082513	0.368462	0.115653
4.30E-07	0.015482	3.367869	
0.75000	0.082513	0.389644	0.115653
4.30E-07	0.322040	2.987092	
1.00000	0.082513	0.408070	0.115653
4.30E-07	0.629339	2.600932	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.485073	-0.150303	-0.247192

```
-0.000902   -0.600035   -1.039523
 0.25000    -0.485073   -0.131633   -0.247192
-0.000902   -0.292834   -0.933119
 0.50000    -0.485073   -0.110395   -0.247192
-0.000902   -0.002637   -0.853577
 0.75000    -0.485073   -0.090979   -0.247192
-0.000902   -0.145191   -0.777080
 1.00000    -0.485073   -0.083013   -0.247192
-0.000902   -0.289204   -0.730734

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.388827    0.855605    0.201896
3.75E-06    0.498648    8.385515
 0.25000    0.388827    1.149039    0.201896
3.75E-06    0.247416    8.581629
 0.50000    0.388827    1.793330    0.201896
3.75E-06    0.031274    8.412592
 0.75000    0.388827    2.492325    0.201896
3.75E-06    0.531132    7.392526
 1.00000    0.388827    3.100392    0.201896
3.75E-06    1.033618    6.069371

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.625926   -2.710370   -0.404636
-0.001468   -0.979326   -3.204095
 0.25000   -0.625926   -2.094254   -0.404636
-0.001468   -0.476494   -2.143564
 0.50000   -0.625926   -1.393398   -0.404636
-0.001468   -0.005280   -1.974067
 0.75000   -0.625926   -0.752678   -0.404636
-0.001468   -0.253542   -1.809094
 1.00000   -0.625926   -0.489802   -0.404636
-0.001468   -0.504658   -2.601683
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   4400

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.285543    0.939968    0.217181
 0.000130    0.533993   12.931833
 0.25000    0.285543    0.947971    0.217181
 0.000130    0.263741   12.120209
 0.50000    0.285543    0.965542    0.217181
 0.000130    0.047814   11.322468
 0.75000    0.285543    0.984606    0.217181
 0.000130    0.694852   10.707603
 1.00000    0.285543    1.001190    0.217181
 0.000130    1.347658   10.236866

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.896143   -0.628085   -0.525187
-0.001499   -1.264657   -2.469622
 0.25000   -0.896143   -0.611281   -0.525187
-0.001499   -0.611689   -2.258281
 0.50000   -0.896143   -0.592167   -0.525187
-0.001499   -0.006558   -2.071153
 0.75000   -0.896143   -0.574693   -0.525187
-0.001499   -0.275228   -1.884327
 1.00000   -0.896143   -0.567524   -0.525187
-0.001499   -0.545525   -1.723434

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.481096    5.553542    0.262210
 0.000762    0.644688   19.889964
 0.25000    0.481096   11.155452    0.262210
 0.000762    0.322488   34.874282
 0.50000    0.481096   23.455557    0.262210
 0.000762    0.074355   42.646777
 0.75000    0.481096   36.800015    0.262210
 0.000762    0.815272   32.589244
 1.00000    0.481096   48.408560    0.262210
 0.000762    1.568231   16.429565

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.141409   -47.967902   -0.611487
-0.001245   -1.479084   -30.167710
 0.25000   -1.141409   -36.205693   -0.611487
-0.001245   -0.719836   -12.265429
 0.50000   -1.141409   -22.825719   -0.611487
-0.001245   -0.018361   -11.468270
 0.75000   -1.141409   -10.593784   -0.611487
-0.001245   -0.336007   -10.753427
 1.00000   -1.141409    -5.575240   -0.611487
-0.001245   -0.659546   -28.318976

COMB       DB ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.959566   10.390295    0.165658
 0.001882    0.408376   24.989465
 0.25000    0.959566   32.990870    0.165658
 0.001882    0.202384   82.679270
 0.50000    0.959566   62.727608    0.165658
 0.001882    0.083318  104.820321
 0.75000    0.959566   90.586895    0.165658
 0.001882    0.491042   74.344304
 1.00000    0.959566  120.800700    0.165658
 0.001882    0.951249   23.911927

COMB       DB ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.044296  -120.665513   -0.367687
-0.001514   -0.894129   -80.277092
 0.25000   -1.044296   -91.223183   -0.367687
-0.001514   -0.437239   -29.290738
 0.50000   -1.044296   -63.272649   -0.367687
-0.001514   -0.042454   -27.640503
 0.75000   -1.044296   -33.682131   -0.367687
-0.001514   -0.209425   -26.128798
 1.00000   -1.044296   -11.458168   -0.367687
-0.001514   -0.415404   -77.168334
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   4401

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.225604   11.873012    0.309298
 0.001905    0.760862   24.221668
 0.25000    1.225604   26.028948    0.309298
 0.001905    0.382031   62.981452
 0.50000    1.225604   57.111119    0.309298
 0.001905    0.092437   84.461649
 0.75000    1.225604   90.832353    0.309298
 0.001905    0.815272   60.158362
 1.00000    1.225604  120.166962    0.309298
 0.001905    1.568231   20.795169

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.141409  -119.731230   -0.611487
-0.001499   -1.479084   -70.991633
 0.25000   -1.141409   -90.008315   -0.611487
-0.001499   -0.719836   -26.365531
 0.50000   -1.141409   -56.197333   -0.611487
-0.001499   -0.034147   -24.734471
 0.75000   -1.141409   -25.287428   -0.611487
-0.001499   -0.397345   -23.311731
 1.00000   -1.141409   -12.605647   -0.611487
-0.001499   -0.777928   -68.084614

COMB       CAR ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.225604   11.873012    0.309298
 0.001905    0.760862   24.989465
 0.25000    1.225604   32.990870    0.309298
 0.001905    0.382031   82.679270
 0.50000    1.225604   62.727608    0.309298
 0.001905    0.092437  104.820321
 0.75000    1.225604   90.832353    0.309298
 0.001905    0.815272   74.344304
 1.00000    1.225604  120.800700    0.309298
 0.001905    1.568231   23.911927

COMB       CAR ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.141409  -120.665513   -0.611487
-0.001514   -1.479084   -80.277092
 0.25000   -1.141409   -91.223183   -0.611487
-0.001514   -0.719836   -29.290738
 0.50000   -1.141409   -63.272649   -0.611487
-0.001514   -0.042454   -27.640503
 0.75000   -1.141409   -33.682131   -0.611487
-0.001514   -0.397345   -26.128798
 1.00000   -1.141409   -12.605647   -0.611487
-0.001514   -0.777928   -77.168334

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.225604   11.873012    0.309298
 0.001905    0.760862   24.989465
 0.25000    1.225604   32.990870    0.309298
 0.001905    0.382031   82.679270
 0.50000    1.225604   62.727608    0.309298
 0.001905    0.092437  104.820321
 0.75000    1.225604   90.832353    0.309298
 0.001905    0.815272   74.344304
 1.00000    1.225604  120.800700    0.309298
 0.001905    1.568231   23.911927

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.141409  -120.665513   -0.611487
-0.001514   -1.479084   -80.277092
 0.25000   -1.141409   -91.223183   -0.611487
-0.001514   -0.719836   -29.290738
 0.50000   -1.141409   -63.272649   -0.611487
-0.001514   -0.042454   -27.640503
 0.75000   -1.141409   -33.682131   -0.611487
-0.001514   -0.397345   -26.128798
 1.00000   -1.141409   -12.605647   -0.611487
-0.001514   -0.777928   -77.168334
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   4402

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      427 ================== LENGTH
=    4.972939

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.804043    0.949421    0.081302
 0.002050    0.215209    6.271591
 0.25000    0.804043    0.976374    0.081302
 0.002050    0.114132    5.179176
 0.50000    0.804043    1.009803    0.081302
 0.002050    0.012909    4.116269
 0.75000    0.804043    1.038956    0.081302
 0.002050    0.117742    3.062495
 1.00000    0.804043    1.074686    0.081302
 0.002050    0.245322    2.119408

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.088967   -0.243812   -0.102671
-1.13E-05   -0.265323   -0.693344
 0.25000   -0.088967   -0.213106   -0.102671
-1.13E-05   -0.137687   -0.510255
 0.50000   -0.088967   -0.181340   -0.102671
-1.13E-05   -0.010124   -0.328513
 0.75000   -0.088967   -0.149925   -0.102671
-1.13E-05   -0.087983   -0.225345
 1.00000   -0.088967   -0.130649   -0.102671
-1.13E-05   -0.189097   -0.163386

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.859653    5.370835    0.115500
 0.002548    0.305187   23.956106
 0.25000    0.859653   30.491655    0.115500
 0.002548    0.161589   79.220128
 0.50000    0.859653   51.647291    0.115500
 0.002548    0.044045   93.903690
 0.75000    0.859653   88.817587    0.115500
 0.002548    0.242794   58.648142
 1.00000    0.859653  122.118298    0.115500
 0.002548    0.520217   22.410689

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.642667  -117.942446   -0.226625
-0.000119   -0.606912   -77.180680
 0.25000   -0.642667   -89.230000   -0.226625
-0.000119   -0.325187   -28.611229
 0.50000   -0.642667   -59.718460   -0.226625
-0.000119   -0.045592   -15.561614
 0.75000   -0.642667   -30.439605   -0.226625
-0.000119   -0.125506   -4.587181
 1.00000   -0.642667   -12.474007   -0.226625
-0.000119   -0.269126   -61.727225

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.790548    4.761235    0.133227
 0.002254    0.351424   23.357445
 0.25000    0.790548   21.863339    0.133227
 0.002254    0.185750   59.645042
 0.50000    0.790548   43.073908    0.133227
 0.002254    0.037539   68.312031
 0.75000    0.790548   61.571283    0.133227
 0.002254    0.337328   43.068858
 1.00000    0.790548   84.242207    0.133227
 0.002254    0.715770   17.403417

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.688288   -80.330886   -0.306802
-0.000862   -0.810215   -53.236452
 0.25000   -0.688288   -60.847616   -0.306802
-0.000862   -0.428815   -20.034139
 0.50000   -0.688288   -40.692346   -0.306802
-0.000862   -0.049263   -11.013517
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   4403

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.75000   -0.688288   -20.754477   -0.306802
-0.000862   -0.145381   -3.390470
 1.00000   -0.688288   -8.526606   -0.306802
-0.000862   -0.311054   -42.111299

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.873062    4.301308    0.143303
 0.001879    0.378406   21.489974
 0.25000    0.873062   18.492415    0.143303
 0.001879    0.200211   51.263217
 0.50000    0.873062   36.092675    0.143303
 0.001879    0.036417   58.140795
 0.75000    0.873062   51.441560    0.143303
 0.001879    0.375872   36.926589
 1.00000    0.873062   70.253603    0.143303
 0.001879    0.796394   15.389468

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.682443   -66.708400   -0.340239
-0.001494   -0.895818   -44.526587
 0.25000   -0.682443   -50.541431   -0.340239
-0.001494   -0.472854   -16.912535
 0.50000   -0.682443   -33.616845   -0.340239
-0.001494   -0.051451   -9.364183
 0.75000   -0.682443   -17.276805   -0.340239
-0.001494   -0.155966   -3.059269
 1.00000   -0.682443   -7.127785   -0.340239
-0.001494   -0.334178   -35.306465

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.048934    4.017130    0.034635
 0.000163    0.090825   16.475031
 0.25000    0.048934   25.040993    0.034635
 0.000163    0.047721   63.320623
 0.50000    0.048934   51.115452    0.034635
 0.000163    0.026538   76.222014
 0.75000    0.048934   73.854541    0.034635
 0.000163    0.146730   47.404480
 1.00000    0.048934  101.724235    0.034635
 0.000163    0.318901   17.748723

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.679743   -98.746782   -0.141366
-0.000385   -0.384116   -64.227109
 0.25000   -0.679743   -74.795718   -0.141366
-0.000385   -0.208377   -23.661550
 0.50000   -0.679743   -50.018554   -0.141366
-0.000385   -0.032819   -12.822867
 0.75000   -0.679743   -25.514791   -0.141366
-0.000385   -0.043553   -5.703148
 1.00000   -0.679743   -10.479205   -0.141366
-0.000385   -0.081403   -51.635936

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.230698    4.460354    0.068496
 0.000152    0.179967   19.630976
 0.25000    0.230698   24.028718    0.068496
 0.000152    0.094778   62.487037
 0.50000    0.230698   48.298022    0.068496
 0.000152    0.029739   73.692847
 0.75000    0.230698   69.462867    0.068496
 0.000152    0.272554   46.023292
 1.00000    0.230698   95.403120    0.068496
 0.000152    0.583491   17.634314

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.723159   -91.805856   -0.252762
-0.001328   -0.673656   -60.296351
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   4404

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.25000   -0.723159   -69.512942   -0.252762
-0.001328   -0.359419   -22.442336
 0.50000   -0.723159   -46.451120   -0.252762
-0.001328   -0.045345   -12.257174
 0.75000   -0.723159   -23.643771   -0.252762
-0.001328   -0.075409   -3.785697
 1.00000   -0.723159   -9.649110   -0.252762
-0.001328   -0.160616   -48.463259

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.556154    4.461210    0.116399
 0.001557    0.306948   21.570320
 0.25000    0.556154   18.312701    0.116399
 0.001557    0.162203   50.327933
 0.50000    0.556154   35.491758    0.116399
 0.001557    0.031506   56.859493
 0.75000    0.556154   50.473319    0.116399
 0.001557    0.348076   36.205158
 1.00000    0.556154   68.835160    0.116399
 0.001557    0.737903   15.524109

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.777096   -65.271574   -0.315452
-0.001205   -0.831077   -43.361755
 0.25000   -0.777096   -49.491507   -0.315452
-0.001205   -0.438961   -16.417848
 0.50000   -0.777096   -33.167168   -0.315452
-0.001205   -0.047490   -9.076613
 0.75000   -0.777096   -17.022958   -0.315452
-0.001205   -0.127069   -2.962311
 1.00000   -0.777096   -7.116819   -0.315452
-0.001205   -0.271845   -34.559452

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.503669    3.868315    0.132638
 0.001297    0.350230   19.614496
 0.25000    0.503669   15.471870    0.132638
 0.001297    0.185286   43.522300
 0.50000    0.503669   29.862965    0.132638
 0.001297    0.032017   48.804302
 0.75000    0.503669   42.413194    0.132638
 0.001297    0.387114   31.300156
 1.00000    0.503669   57.795121    0.132638
 0.001297    0.819885   13.778250

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.805278   -54.725270   -0.349693
-0.001745   -0.919334   -36.660763
 0.25000   -0.805278   -41.506125   -0.349693
-0.001745   -0.484634   -14.037935
 0.50000   -0.805278   -27.831036   -0.349693
-0.001745   -0.050457   -7.822105
 0.75000   -0.805278   -14.306844   -0.349693
-0.001745   -0.144371   -2.622501
 1.00000   -0.805278   -6.008357   -0.349693
-0.001745   -0.309330   -28.994059

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.039719    0.215372    0.056640
8.54E-07    0.150081    2.270624
 0.25000    0.039719    0.242326    0.056640
8.54E-07    0.079648    2.091061
 0.50000    0.039719    0.275754    0.056640
8.54E-07    0.009146    1.871961
 0.75000    0.039719    0.304907    0.056640
8.54E-07    0.151088    1.611361
 1.00000    0.039719    0.340638    0.056640
8.54E-07    0.319223    1.366258
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   4405

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.302053   -0.201508   -0.135269
-0.001136   -0.353501   -0.601639
 0.25000   -0.302053   -0.170601   -0.135269
-0.001136   -0.185330   -0.459598
 0.50000   -0.302053   -0.138836   -0.135269
-0.001136   -0.017077   -0.355704
 0.75000   -0.302053   -0.107421   -0.135269
-0.001136   -0.061156   -0.668494
 1.00000   -0.302053   -0.088144   -0.135269
-0.001136   -0.131584   -0.260082

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.339284    0.952115    0.090312
6.91E-06    0.239068    5.679695
 0.25000    0.339284    1.760725    0.090312
6.91E-06    0.126746    6.758095
 0.50000    0.339284    2.763589    0.090312
6.91E-06    0.015117    6.572607
 0.75000    0.339284    3.638170    0.090312
6.91E-06    0.262877    4.877350
 1.00000    0.339284    4.710081    0.090312
6.91E-06    0.555304    3.219575

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.395072   -3.924643   -0.235374
-0.002030   -0.615204   -3.388529
 0.25000   -0.395072   -3.003448   -0.235374
-0.002030   -0.322578   -1.665219
 0.50000   -0.395072   -2.050480   -0.235374
-0.002030   -0.029950   -1.085303
 0.75000   -0.395072   -1.108028   -0.235374
-0.002030   -0.097697   -0.806928
 1.00000   -0.395072   -0.529736   -0.235374
-0.002030   -0.210026   -2.953767

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.205367    1.711827    0.109445
1.05E-05    0.288891   10.552480
 0.25000    0.205367    2.997517    0.109445
1.05E-05    0.152774   11.722353
 0.50000    0.205367    4.592070    0.109445
1.05E-05    0.017469   10.966326
 0.75000    0.205367    5.982653    0.109445
1.05E-05    0.358273    7.840792
 1.00000    0.205367    7.686992    0.109445
1.05E-05    0.756202    4.892672

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.700126   -6.214738   -0.320296
-0.002373   -0.836767   -5.114156
 0.25000   -0.700126   -4.750039   -0.320296
-0.002373   -0.438578   -2.484379
 0.50000   -0.700126   -3.234820   -0.320296
-0.002373   -0.040431   -1.588266
 0.75000   -0.700126   -1.736320   -0.320296
-0.002373   -0.119213   -0.893275
 1.00000   -0.700126   -0.816836   -0.320296
-0.002373   -0.255334   -3.784917

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.323063    4.003075    0.127594
 0.000859    0.336891   19.690183
 0.25000    0.323063   17.709017    0.127594
 0.000859    0.178219   48.634800
 0.50000    0.323063   34.707558    0.127594
 0.000859    0.033405   55.553346
 0.75000    0.323063   49.531695    0.127594
 0.000859    0.395565   35.541126
 1.00000    0.323063   67.700592    0.127594
 0.000859    0.839586   15.255668
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                   4406

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.946735   -64.603239   -0.359065
-0.002031   -0.946170   -43.006370
 0.25000   -0.946735   -48.988988   -0.359065
-0.002031   -0.499773   -16.347476
 0.50000   -0.946735   -32.836183   -0.359065
-0.002031   -0.053722   -9.068255
 0.75000   -0.946735   -16.861614   -0.359065
-0.002031   -0.138902   -2.988319
 1.00000   -0.946735   -7.059568   -0.359065
-0.002031   -0.297594   -34.226228

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.047947    1.100389    0.162828
 0.002324    0.430120    6.381299
 0.25000    1.047947    1.114240    0.162828
 0.002324    0.227622    5.197689
 0.50000    1.047947    1.135024    0.162828
 0.002324    0.025269    4.010360
 0.75000    1.047947    1.156265    0.162828
 0.002324    0.242133    2.887622
 1.00000    1.047947    1.172318    0.162828
 0.002324    0.510693    1.826450

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.158295   -0.247721   -0.215676
```

```
-9.41E-06   -0.560613   -0.854193
 0.25000    -0.158295   -0.227866    -0.215676
-9.41E-06   -0.291812   -0.634889
 0.50000    -0.158295   -0.205759    -0.215676
-9.41E-06   -0.025043   -0.437209
 0.75000    -0.158295   -0.186763    -0.215676
-9.41E-06   -0.177099   -0.276377
 1.00000    -0.158295   -0.181719    -0.215676
-9.41E-06   -0.379479   -0.184608
```

COMB DL-G1-2 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.154693    5.436961    0.223365
 0.002796   0.590539   19.988118
 0.25000    1.154693   27.488321    0.223365
 0.002796   0.320164   59.442160
 0.50000    1.154693   60.576014    0.223365
 0.002796   0.061720   74.512405
 0.75000    1.154693   94.391003    0.223365
 0.002796   0.462934   44.858161
 1.00000    1.154693  119.948318    0.223365
 0.002796   0.983644   16.289681
```

COMB DL-G1-2 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.656390 -118.535923   -0.421616
-8.44E-05  -1.112030   -68.139714
 0.25000   -0.656390   -86.926687   -0.421616
-8.44E-05  -0.488717   -25.337229
 0.50000   -0.656390   -51.731561   -0.421616
-8.44E-05  -0.069269   -13.500198
 0.75000   -0.656390   -21.490772   -0.421616
-8.44E-05  -0.243468    -3.516688
 1.00000   -0.656390   -13.460608   -0.421616
-8.44E-05  -0.521126   -56.023432
```

COMB DL-G1-3 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.082480    5.036991    0.247693
 0.002503   0.624771   20.925656
 0.25000    1.082480   20.694554    0.247693
 0.002503   0.350988   47.634501
 0.50000    1.082480   44.188479    0.247693
 0.002503   0.056090   57.062663
 0.75000    1.082480   68.198821    0.247693
 0.002503   0.588688   34.762196
 1.00000    1.082480   86.345798    0.247693
 0.002503   1.245208   13.367893
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          4407

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.747630   -84.260332   -0.529870
-0.000739  -1.389305   -49.261278
 0.25000   -0.747630   -61.816186   -0.529870
-0.000739  -0.731194   -18.682460
 0.50000   -0.747630   -36.825877   -0.529870
-0.000739  -0.076100   -10.088400
 0.75000   -0.747630   -15.353397   -0.529870
-0.000739  -0.270445    -2.817075
 1.00000   -0.747630    -9.651578   -0.529870
-0.000739  -0.578339   -39.931583

COMB DL-G1-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.080242    4.553701    0.269408
 0.002086   0.711167   19.643020
 0.25000    1.080242   17.549737    0.269408
 0.002086   0.380353   41.427426
 0.50000    1.080242   37.050068    0.269408
 0.002086   0.056666   48.875143
 0.75000    1.080242   56.979034    0.269408
 0.002086   0.635215   30.049512
 1.00000    1.080242   72.041314    0.269408
 0.002086   1.343709   12.008528

COMB DL-G1-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.760525   -70.006609   -0.571359
-0.001431  -1.497221   -41.523533
 0.25000   -0.760525   -51.377610   -0.571359
-0.001431  -0.787440   -15.865003
 0.50000   -0.760525   -30.635256   -0.571359
-0.001431  -0.079872    -8.656791
 0.75000   -0.760525   -12.812756   -0.571359
-0.001431  -0.293659    -2.647703
 1.00000   -0.760525    -8.080155   -0.571359
-0.001431  -0.628551   -33.516670

COMB DL-G2-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.077404    3.535850    0.053690
 0.000146   0.141962   11.897813
 0.25000    0.077404   18.993964    0.053690
 0.000146   0.080157   39.911607
 0.50000    0.077404   42.188603    0.053690
 0.000146   0.026660   50.829534
 0.75000    0.077404   65.893081    0.053690
 0.000146   0.235699   30.523194
 1.00000    0.077404   83.808887    0.053690
 0.000146   0.501244   11.018795

COMB DL-G2-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.593915   -83.193629   -0.216021
-0.000303  -0.573007   -47.463636
 0.25000   -0.593915   -61.035396   -0.216021
-0.000303  -0.305342   -17.553058
 0.50000   -0.593915   -36.363436   -0.216021
-0.000303  -0.037226    -9.357037
 0.75000   -0.593915   -15.164491   -0.216021
-0.000303  -0.058896    -2.431465
 1.00000   -0.593915    -9.535306   -0.216021
-0.000303  -0.126123   -39.292874

COMB DL-G2-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.235015    4.130528    0.117814
 0.000139   0.310627   15.707066
 0.25000    0.235015   18.882223    0.117814
 0.000139   0.169111   41.620366
 0.50000    0.235015   41.018392    0.117814
 0.000139   0.034954   51.248744
 0.75000    0.235015   63.638101    0.117814
 0.000139   0.416284   31.028809
 1.00000    0.235015   80.735173    0.117814
 0.000139   0.881133   11.592242
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          4408

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.685775   -79.308366   -0.376025
-0.001203  -0.989750   -45.952525
 0.25000   -0.685775   -58.162740   -0.376025
-0.001203  -0.523099   -17.266435
 0.50000   -0.685775   -34.618262   -0.376025
-0.001203  -0.058116    -9.296978
 0.75000   -0.685775   -14.388086   -0.376025
-0.001203  -0.129482    -2.669894
 1.00000   -0.685775    -9.016148   -0.376025
-0.001203  -0.275632   -37.856499

COMB DL-G2-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.704249    4.213958    0.214005
 0.001693   0.564415   18.295768
 0.25000    0.704249   13.800482    0.214005
 0.001693   0.301497   33.536008
 0.50000    0.704249   28.184899    0.214005
 0.001693   0.043057   38.197096
 0.75000    0.704249   42.885499    0.214005
 0.001693   0.579480   23.775979
 1.00000    0.704249   53.996188    0.214005
 0.001693   1.224855   10.197406

COMB DL-G2-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.824274   -51.958236   -0.519764
-0.001094  -1.359712   -30.834331
 0.25000   -0.824274   -38.216559   -0.519764
-0.001094  -0.713691   -11.997244
 0.50000   -0.824274   -22.915963   -0.519764
-0.001094  -0.069186    -6.630181
 0.75000   -0.824274    -9.769198   -0.519764
-0.001094  -0.234048    -2.188461
 1.00000   -0.824274    -6.278195   -0.519764
-0.001094  -0.499943   -24.950649

COMB DL-G2-4 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.652456    3.719038    0.242667
 0.001411   0.640018   17.136495
 0.25000    0.652456   11.770139    0.242667
 0.001411   0.340945   29.714045
 0.50000    0.652456   23.850680    0.242667
 0.001411   0.045705   33.409851
 0.75000    0.652456   36.196762    0.242667
 0.001411   0.641766   21.054370
 1.00000    0.652456   45.527911    0.242667
 0.001411   1.357080    9.399514

COMB DL-G2-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.891777   -43.689684   -0.576044
-0.001701  -1.507476   -26.322478
 0.25000   -0.891777   -32.148937   -0.576044
-0.001701  -0.791498   -10.429253
 0.50000   -0.891777   -19.298958   -0.576044
-0.001701  -0.076482    -5.847800
 0.75000   -0.891777    -8.257841   -0.576044
-0.001701  -0.264728    -2.025799
 1.00000   -0.891777    -5.325973   -0.576044
-0.001701  -0.566369   -21.060531

COMB DL-G3-1 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.067291    0.265511    0.098974
 5.78E-07   0.261220    2.633032
 0.25000    0.067291    0.279363    0.098974
 5.78E-07   0.137999    2.368883
 0.50000    0.067291    0.300146    0.098974
 5.78E-07   0.014611    2.090288
 0.75000    0.067291    0.321387    0.098974
 5.78E-07   0.254292    1.793281
 1.00000    0.067291    0.337440    0.098974
 5.78E-07   0.539422    1.504789
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          4409

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.414169   -0.175478   -0.229353
-0.001238  -0.641173   -0.723279
 0.25000   -0.414169   -0.155623   -0.229353
-0.001238  -0.316025   -0.574708
 0.50000   -0.414169   -0.133515   -0.229353
-0.001238  -0.030328   -0.451902
 0.75000   -0.414169   -0.114520   -0.229353
-0.001238  -0.107274   -0.344222
 1.00000   -0.414169   -0.109476   -0.229353
-0.001238  -0.230405   -0.277135

COMB DL-G3-2 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.340127    0.988043    0.171741
 4.74E-06   0.453391    6.124643
 0.25000    0.340127    1.445137    0.171741
 4.74E-06   0.239728    6.054000
 0.50000    0.340127    2.131000    0.171741
 4.74E-06   0.026372    5.493992
 0.75000    0.340127    2.831939    0.171741
 4.74E-06   0.422929    4.182526
 1.00000    0.340127    3.361708    0.171741
 4.74E-06   0.895517    2.959325

COMB DL-G3-2 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.531238   -2.645723   -0.380214
-0.002205  -0.995596   -2.588879
 0.25000   -0.531238   -1.990507   -0.380214
-0.002205  -0.522962   -1.494934
 0.50000   -0.531238   -1.260960   -0.380214
-0.002205  -0.049101   -1.049126
 0.75000   -0.531238   -0.634109   -0.380214
-0.002205  -0.186247   -0.902013
 1.00000   -0.531238   -0.467655   -0.380214
-0.002205  -0.399748   -2.097449

COMB DL-G3-3 ---------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.252716    1.726328    0.188754
 4.96E-06   0.497494   10.327747
 0.25000    0.252716    1.738794    0.188754
 4.96E-06   0.262597    8.547797
 0.50000    0.252716    1.757500    0.188754
 4.96E-06   0.026876    6.764367
 0.75000    0.252716    1.776616    0.188754
 4.96E-06   0.558471    5.196934
 1.00000    0.252716    1.791065    0.188754
 4.96E-06   1.179700    3.867642

COMB DL-G3-3 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.813671   -0.410372   -0.499506
-0.002365  -1.304651   -1.721404
 0.25000   -0.813671   -0.392502   -0.499506
-0.002365  -0.683556   -1.383785
 0.50000   -0.813671   -0.372606   -0.499506
-0.002365  -0.061758   -1.072624
 0.75000   -0.813671   -0.355510   -0.499506
-0.002365  -0.205598   -0.901239
 1.00000   -0.813671   -0.350970   -0.499506
-0.002365  -0.440437   -0.798324
```

COMB DL-G3-4 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.436957    3.673170    0.228436
 0.000900   0.602666   16.548409
 0.25000    0.436957   12.399525    0.228436
 0.000900   0.321455   30.612894
 0.50000    0.436957   25.493273    0.228436
 0.000900   0.043963   35.034947
 0.75000    0.436957   38.874832    0.228436
 0.000900   0.649391   22.120935
 1.00000    0.436957   48.988594    0.228436
 0.000900   1.374521    9.929991
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          4410

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.043800   -47.355748   -0.584096
-0.002022  -1.530138   -28.330570
 0.25000   -1.043800   -34.647068   -0.584096
-0.002022  -0.804314   -11.160515
 0.50000   -1.043800   -20.919348   -0.584096
-0.002022  -0.079130    -6.249494
 0.75000   -1.043800    -8.952202   -0.584096
-0.002022  -0.248820    -2.180053
 1.00000   -1.043800    -5.774436   -0.584096
-0.002022  -0.533131   -22.863929
```

COMB DB ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.873062    5.370835    0.143303
 0.002548   0.379406   23.956106
 0.25000    0.873062   30.491655    0.143303
 0.002548   0.200211   79.220128
 0.50000    0.873062   61.647291    0.143303
 0.002548   0.044045   93.903690
 0.75000    0.873062   88.817587    0.143303
 0.002548   0.395565   58.648142
 1.00000    0.873062  122.118298    0.143303
 0.002548   0.839586   22.410689
```

COMB DB ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.946735 -117.942446   -0.359065
-0.002373  -0.946170   -77.180680
 0.25000   -0.946735   -89.323995   -0.359065
-0.002373  -0.499773   -28.611229
 0.50000   -0.946735   -59.718460   -0.359065
-0.002373  -0.053722   -15.561614
 0.75000   -0.946735   -30.439605   -0.359065
-0.002373  -0.155966    -4.587181
 1.00000   -0.946735   -12.474007   -0.359065
-0.002373  -0.334178   -61.727225
```

COMB DL ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.154693    5.436961    0.269408
 0.002796   0.711167   20.925656
 0.25000    1.154693   27.488321    0.269408
 0.002796   0.380353   59.442160
 0.50000    1.154693   60.576014    0.269408
 0.002796   0.061720   74.512405
 0.75000    1.154693   94.391003    0.269408
 0.002796   0.649391   44.858161
 1.00000    1.154693  119.948318    0.269408
 0.002796   1.374521   16.289681
```

COMB DL ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.043800 -118.535923   -0.584096
-0.002365  -1.530138   -68.139714
 0.25000   -1.043800   -86.926687   -0.584096
-0.002365  -0.804314   -25.337229
 0.50000   -1.043800   -51.731561   -0.584096
-0.002365  -0.079872   -13.500198
 0.75000   -1.043800   -21.490772   -0.584096
-0.002365  -0.293659    -3.516688
 1.00000   -1.043800   -13.460608   -0.584096
-0.002365  -0.628551   -56.023432
```

COMB CAR ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.154693    5.436961    0.269408
 0.002796   0.711167   23.956106
 0.25000    1.154693   30.491655    0.269408
 0.002796   0.380353   79.220128
 0.50000    1.154693   61.647291    0.269408
 0.002796   0.061720   93.903690
 0.75000    1.154693   94.391003    0.269408
 0.002796   0.649391   58.648142
 1.00000    1.154693  122.118298    0.269408
 0.002796   1.374521   22.410689
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          4411

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB CAR ---------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.043800 -118.535923   -0.584096
-0.002373  -1.530138   -77.180680
 0.25000   -1.043800   -89.323995   -0.584096
-0.002373  -0.804314   -28.611229
 0.50000   -1.043800   -59.718460   -0.584096
-0.002373  -0.079872   -15.561614
 0.75000   -1.043800   -30.439605   -0.584096
-0.002373  -0.293659    -4.587181
 1.00000   -1.043800   -13.460608   -0.584096
-0.002373  -0.628551   -61.727225
```

COMB DESIGN ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    1.154693    5.436961    0.269408
 0.002796   0.711167   23.956106
 0.25000    1.154693   30.491655    0.269408
 0.002796   0.380353   79.220128
 0.50000    1.154693   61.647291    0.269408
 0.002796   0.061720   93.903690
 0.75000    1.154693   94.391003    0.269408
 0.002796   0.649391   58.648142
 1.00000    1.154693  122.118298    0.269408
 0.002796   1.374521   22.410689
```

COMB DESIGN ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -1.043800 -118.535923   -0.584096
-0.002373  -1.530138   -77.180680
 0.25000   -1.043800   -89.323995   -0.584096
-0.002373  -0.804314   -28.611229
 0.50000   -1.043800   -59.718460   -0.584096
-0.002373  -0.079872   -15.561614
 0.75000   -1.043800   -30.439605   -0.584096
-0.002373  -0.293659    -4.587181
 1.00000   -1.043800   -13.460608   -0.584096
-0.002373  -0.628551   -61.727225
```

ELEM 428 ========== LENGTH = 1.491642

COMB DB-G1-1 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.418408    1.468586    0.790713
 0.003077   0.569222    2.158467
 0.25000    0.418408    1.491304    0.790713
 0.003077   0.274357    1.636029
 0.50000    0.418408    1.517918    0.790713
 0.003077   0.027958    1.099955
 0.75000    0.418408    1.547129    0.790713
 0.003077   0.439180    0.544802
 1.00000    0.418408    1.577635    0.790713
 0.003077   0.850318    0.036696
```

COMB DB-G1-1 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.046503   -0.230141   -1.102526
-2.02E-05  -0.794296   -0.196533
 0.25000   -0.046503   -0.214054   -1.102526
-2.02E-05  -0.383152   -0.140698
 0.50000   -0.046503   -0.193368   -1.102526
-2.02E-05  -0.020458   -0.084841
 0.75000   -0.046503   -0.169836   -1.102526
-2.02E-05  -0.315373   -0.046231
 1.00000   -0.046503   -0.149678   -1.102526
-2.02E-05  -0.610239   -0.050197
```

COMB DB-G1-2 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.446177   15.118987    1.131220
 0.003842   0.814355   22.485772
 0.25000    0.446177   36.291799    1.131220
 0.003842   0.392511   40.533283
 0.50000    0.446177   61.096178    1.131220
 0.003842   0.090249   45.498662
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          4412

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.75000    0.446177   88.320231    1.131220
 0.003842   0.884743   32.868766
 1.00000    0.446177  116.752063    1.131220
 0.003842   1.712868    0.052462
```

COMB DB-G1-2 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.336131 -116.371636   -2.236078
-0.000215  -1.658875   -61.720360
 0.25000   -0.336131 -101.379150   -2.236078
-0.000215  -0.825018   -46.289097
 0.50000   -0.336131   -82.099294   -2.236078
-0.000215  -0.062865   -30.857842
 0.75000   -0.336131   -60.167965   -2.236078
-0.000215  -0.451176   -15.444353
 1.00000   -0.336131   -41.380548   -2.236078
-0.000215  -0.873020    -0.102719
```

COMB DB-G1-3 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.410420   11.793181    1.313127
 0.003352   0.945267   17.504291
 0.25000    0.410420   26.207504    1.313127
 0.003352   0.455588   29.231463
 0.50000    0.410420   43.094176    1.313127
 0.003352   0.102622   32.052398
 0.75000    0.410420   61.628140    1.313127
 0.003352   1.235378   22.894577
 1.00000    0.410420   80.984368    1.313127
 0.003352   2.390934    0.060707
```

COMB DB-G1-3 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.360121   -79.328216   -3.109210
-0.001487  -2.271619   -42.142953
 0.25000   -0.360121   -69.121429   -3.109210
-0.001487  -1.112162   -31.598998
 0.50000   -0.360121   -55.995818   -3.109210
-0.001487  -0.056637   -21.054969
 0.75000   -0.360121   -41.065101   -3.109210
-0.001487  -0.523769   -10.527046
 1.00000   -0.360121   -28.274740   -3.109210
-0.001487  -1.013448    -0.143817
```

COMB DB-G1-4 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.453001   10.471214    1.405641
 0.002793   1.011803   15.513611
 0.25000    0.453001   22.432035    1.405641
 0.002793   0.487624   24.989154
 0.50000    0.453001   36.444381    1.405641
 0.002793   0.108278   27.074523
 0.75000    0.453001   51.823633    1.405641
 0.002793   1.374230   19.220328
 1.00000    0.453001   67.885178    1.405641
 0.002793   2.659066    0.064974
```

COMB DB-G1-4 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.357055   -66.074502   -3.454113
-0.002456  -2.513743   -35.333950
 0.25000   -0.357055   -57.605040   -3.454113
-0.002456  -1.225670   -26.492589
 0.50000   -0.357055   -46.713577   -3.454113
-0.002456  -0.055106   -17.652522
 0.75000   -0.357055   -34.324258   -3.454113
-0.002456  -0.560733    -8.825879
 1.00000   -0.357055   -23.710980   -3.454113
-0.002456  -1.084911    -0.159960
```

COMB DB-G2-1 ---------- MAX

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.025519   11.957046    0.349277
 0.000397   0.251432   17.794147
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                   MOVING                LOAD                >
                                          4413

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.25000    0.025519   29.676781    0.349277
 0.000397   0.121183   33.157902
 0.50000    0.025519   50.435810    0.349277
 0.000397   0.062260   37.573094
 0.75000    0.025519   73.219889    0.349277
 0.000397   0.526929   27.262612
 1.00000    0.025519   97.014769    0.349277
 0.000397   1.019796    0.016107
```

COMB DB-G2-1 ---------- MIN

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.358068   -97.338786   -1.334540
```

-0.000649 -1.001253 -51.599175
0.25000 -0.358068 -84.791435 -1.334540
-0.000649 -0.503589 -38.704671
0.50000 -0.358068 -68.655933 -1.334540
-0.000649 -0.037145 -25.810167
0.75000 -0.358068 -50.301388 -1.334540
-0.000649 -0.139315 -12.915665
1.00000 -0.358068 -34.578012 -1.334540
-0.000649 -0.269564 -0.062180

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.119670	11.931075	0.684646
0.000233	0.492794	17.721387	
0.25000	0.119670	28.424060	0.684646
0.000233	0.237482	31.722487	
0.50000	0.119670	47.145926	0.684646
0.000233	0.090537	35.533000	
0.75000	0.119670	68.952645	0.684646
0.000233	0.988008	25.637320	
1.00000	0.119670	91.100188	0.684646
0.000233	1.911637	0.031468	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.378617	-90.903549	-2.488783
-0.002262	-1.829025	-48.456814	
0.25000	-0.378617	-79.224861	-2.488783
-0.002262	-0.920932	-36.341806	
0.50000	-0.378617	-64.206432	-2.488783
-0.002262	-0.043627	-24.226709	
0.75000	-0.378617	-47.122586	-2.488783
-0.002262	-0.273141	-12.111709	
1.00000	-0.378617	-32.487752	-2.488783
-0.002262	-0.528452	-0.115934	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.287909	10.542223	1.147960
0.002239	0.829345	15.622270	
0.25000	0.287909	22.216803	1.147960
0.002239	0.398259	24.761049	
0.50000	0.287909	35.893809	1.147960
0.002239	0.101162	26.676408	
0.75000	0.287909	50.905012	1.147960
0.002239	1.273614	18.889820	
1.00000	0.287909	66.582178	1.147960
0.002239	2.464447	0.052974	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.407039	-64.517908	-3.201822
-0.002223	-2.331549	-34.555837	
0.25000	-0.407039	-56.251134	-3.201822
-0.002223	-1.137556	-25.916181	
0.50000	-0.407039	-45.620320	-3.201822
-0.002223	-0.047911	-17.276446	
0.75000	-0.407039	-33.512499	-3.201822
-0.002223	-0.457914	-8.636799	
1.00000	-0.407039	-23.168213	-3.201822
-0.002223	-0.886001	-0.148778	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4414
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.260883	9.400662	1.300623
0.001865	0.936180	13.910492	
0.25000	0.260883	19.180593	1.300623
0.001865	0.451164	21.345471	
0.50000	0.260883	30.637981	1.300623
0.001865	0.107799	22.737684	
0.75000	0.260883	43.213039	1.300623
0.001865	1.413031	16.002583	
1.00000	0.260883	56.345983	1.300623
0.001865	2.733616	0.060023	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.421149	-54.093067	-3.548390
-0.002982	-2.576087	-29.004734	
0.25000	-0.421149	-47.167895	-3.548390
-0.002982	-1.252855	-21.750184	
0.50000	-0.421149	-38.262339	-3.548390
-0.002982	-0.048859	-14.495556	
0.75000	-0.421149	-28.132041	-3.548390
-0.002982	-0.518868	-7.240970	
1.00000	-0.421149	-19.453948	-3.548390
-0.002982	-1.003884	-0.164914	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.020754	0.999942	0.546758
1.20E-06	0.393490	1.435113	
0.25000	0.020754	1.022659	0.546758
1.20E-06	0.189598	1.087638	
0.50000	0.020754	1.049273	0.546758
1.20E-06	0.036551	0.726126	
0.75000	0.020754	1.078484	0.546758
1.20E-06	0.546987	0.346145	
1.00000	0.020754	1.108990	0.546758
1.20E-06	1.055996	0.025320	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.156526	-0.276523	-1.366855
-0.001712	-0.982902	-0.277850	
0.25000	-0.156526	-0.260437	-1.366855
-0.001712	-0.473187	-0.204759	
0.50000	-0.156526	-0.239750	-1.366855
-0.001712	-0.037087	-0.131657	
0.75000	-0.156526	-0.216219	-1.366855
-0.001712	-0.218186	-0.058514	
1.00000	-0.156526	-0.196061	-1.366855
-0.001712	-0.422077	-0.063629	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.176042	2.291197	0.875242
1.05E-05	0.629889	3.323832	
0.25000	0.176042	2.972726	0.875242
1.05E-05	0.303502	3.233922	
0.50000	0.176042	3.771150	0.875242
1.05E-05	0.064460	2.722929	
0.75000	0.176042	4.647461	0.875242
1.05E-05	0.953923	1.646083	
1.00000	0.176042	5.562648	0.875242
1.05E-05	1.844394	0.040437	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.205395	-4.419255	-2.388389
-0.003168	-1.719398	-2.974030	
0.25000	-0.205395	-3.936665	-2.388389
-0.003168	-0.828742	-2.226232	
0.50000	-0.205395	-3.316069	-2.388389
-0.003168	-0.023542	-1.478418	
0.75000	-0.205395	-2.610125	-2.388389
-0.003168	-0.349272	-0.730557	
1.00000	-0.205395	-2.005379	-2.388389
-0.003168	-0.675659	-0.111146	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4415
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.106674	3.447047	1.073295
1.60E-05	0.772466	5.028308	
0.25000	0.106674	4.530677	1.073295
1.60E-05	0.372223	4.955345	
0.50000	0.106674	5.801171	1.073295
1.60E-05	0.087928	4.212835	
0.75000	0.106674	7.193505	1.073295
1.60E-05	1.305400	2.570329	
1.00000	0.106674	8.648654	1.073295
1.60E-05	2.524463	0.049459	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.365188	-6.423622	-3.269835
-0.003787	-2.354819	-3.824055	
0.25000	-0.365188	-5.656304	-3.269835
-0.003787	-1.135463	-2.859914	
0.50000	-0.365188	-4.669556	-3.269835
-0.003787	-0.029015	-1.895679	
0.75000	-0.365188	-3.547105	-3.269835
-0.003787	-0.428263	-0.931492	
1.00000	-0.365188	-2.585560	-3.269835
-0.003787	-0.828506	-0.152546	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167998	10.405747	1.251045
0.001199	0.900468	15.399292	
0.25000	0.167998	21.957652	1.251045
0.001199	0.433938	24.441934	
0.50000	0.167998	35.490942	1.251045
0.001199	0.112749	26.346953	
0.75000	0.167998	50.344409	1.251045
0.001199	1.439020	18.652422	
1.00000	0.167998	65.856840	1.251045
0.001199	2.783526	0.057747	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.494707	-63.875664	-3.613826
-0.003313	-2.626822	-34.235471	
0.25000	-0.494707	-55.695757	-3.613826
-0.003313	-1.279189	-25.673305	
0.50000	-0.494707	-45.176651	-3.613826
-0.003313	-0.050302	-17.111061	
0.75000	-0.494707	-33.215499	-3.613826
-0.003313	-0.499114	-8.548850	
1.00000	-0.494707	-22.960467	-3.613826
-0.003313	-0.965644	-0.168252	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.547555	1.507957	1.597086
0.003705	1.149717	1.869573	
0.25000	0.547555	1.516047	1.597086
0.003705	0.554098	1.397671	
0.50000	0.547555	1.531103	1.597086
0.003705	0.055267	0.929044	
0.75000	0.547555	1.548021	1.597086
0.003705	0.899287	0.458299	
1.00000	0.547555	1.566131	1.597086
0.003705	1.741517	0.069618	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.082691	-0.224135	-2.257777
-1.55E-05	-1.625730	-0.189035	
0.25000	-0.082691	-0.210204	-2.257777
-1.55E-05	-0.783403	-0.136562	
0.50000	-0.082691	-0.194569	-2.257777
-1.55E-05	-0.041166	-0.090524	
0.75000	-0.082691	-0.183315	-2.257777
-1.55E-05	-0.636817	-0.050129	
1.00000	-0.082691	-0.183040	-2.257777
-1.55E-05	-1.232443	-0.105210	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4416
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.602606	14.308341	2.200263
0.004514	1.583986	16.396540	
0.25000	0.602606	27.187846	2.200263
0.004514	0.763451	23.305329	
0.50000	0.602606	51.155927	2.200263
0.004514	0.127325	28.459589	
0.75000	0.602606	78.089631	2.200263
0.004514	1.686918	21.249526	
1.00000	0.602606	106.921161	2.200263
0.004514	3.272769	0.095558	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.344112	-111.117481	-4.255666
-0.000143	-3.111030	-56.005611	
0.25000	-0.344112	-88.939273	-4.255666
-0.000143	-1.523679	-40.523553	
0.50000	-0.344112	-64.048448	-4.255666
-0.000143	-0.097543	-27.091814	
0.75000	-0.344112	-46.132097	-4.255666
-0.000143	-0.877349	-13.524973	
1.00000	-0.344112	-45.694772	-4.255666
-0.000143	-1.697910	-0.200607	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.565026	11.689405	2.446517
0.003941	1.761149	13.536638	
0.25000	0.565026	20.834501	2.446517
0.003941	0.848814	17.948185	
0.50000	0.565026	37.853043	2.446517
0.003941	0.152972	21.115877	
0.75000	0.565026	56.977326	2.446517
0.003941	2.154827	15.507333	
1.00000	0.565026	77.449162	2.446517
0.003941	4.175247	0.105892	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.392528	-79.052827	-5.419989
-0.001364	-3.934925	-39.945485	
0.25000	-0.392528	-63.305185	-5.419989
-0.001364	-1.913588	-28.900613	
0.50000	-0.392528	-45.631449	-5.419989
-0.001364	-0.091573	-19.261985	
0.75000	-0.392528	-32.909939	-5.419989
-0.001364	-0.975669	-9.635223	
1.00000	-0.392528	-32.599417	-5.419989
-0.001364	-1.888075	-0.249980	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.563404	10.468070	2.651060
0.003284	1.907876	12.193597	
0.25000	0.563404	18.058645	2.651060
0.003284	0.919200	15.604142	
0.50000	0.563404	32.184306	2.651060
0.003284	0.162042	17.986030	
0.75000	0.563404	48.057766	2.651060
0.003284	2.321228	13.086264	
1.00000	0.563404	65.049715	2.651060
0.003284	4.495866	0.115074	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.398985	-65.920739	-5.833002
-0.002483	-4.226054	-33.537406	
0.25000	-0.398985	-52.849945	-5.833002
-0.002483	-2.050740	-24.270367	
0.50000	-0.398985	-38.180463	-5.833002
-0.002483	-0.092309	-16.173917	
0.75000	-0.398985	-27.621407	-5.833002
-0.002483	-1.057358	-8.090293	
1.00000	-0.398985	-27.363669	-5.833002
-0.002483	-2.046115	-0.269112	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4417
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.040312	9.764556	0.538658
0.000384	0.387795	11.101734	
0.25000	0.040312	18.793154	0.538658
0.000384	0.186990	16.042487	
0.50000	0.040312	35.594899	0.538658
0.000384	0.069886	19.751118	
0.75000	0.040312	54.475561	0.538658
0.000384	0.848629	14.788246	
1.00000	0.040312	74.686608	0.538658
0.000384	1.647220	0.022733	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.312725	-77.881549	-2.143647
-0.000516	-1.575670	-39.285510	
0.25000	-0.312725	-62.334513	-2.143647
-0.000516	-0.776044	-28.427663	
0.50000	-0.312725	-44.885921	-2.143647
-0.000516	-0.042283	-18.951736	
0.75000	-0.312725	-32.326968	-2.143647
-0.000516	-0.415833	-9.479434	
1.00000	-0.312725	-32.019901	-2.143647
-0.000516	-0.415666	-0.098950	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.122491	10.213986	1.167944
0.000240	0.840280	11.742100	
0.25000	0.122491	18.829987	1.167944
0.000240	0.404806	16.154129	
0.50000	0.122491	34.863910	1.167944
0.000240	0.113573	19.392412	
0.75000	0.122491	52.881747	1.167944
0.000240	1.511606	14.358676	
1.00000	0.122491	72.169171	1.167944
0.000240	2.928533	0.050400	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.360670	-74.659254	-3.802503
-0.002156	-2.768220	-37.875968	
0.25000	-0.360670	-59.822701	-3.802503
-0.002156	-1.350246	-27.410548	
0.50000	-0.360670	-43.171490	-3.802503
-0.002156	-0.057153	-18.266510	
0.75000	-0.360670	-31.185991	-3.802503
-0.002156	-0.466177	-9.130501	
1.00000	-0.360670	-30.893434	-3.802503
-0.002156	-0.901652	-0.173339	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.366331	8.926138	2.112320
0.002613	1.520271	10.379306	
0.25000	0.366331	14.553325	2.112320
0.002613	0.732518	12.539748	
0.50000	0.366331	24.945117	2.112320
0.002613	0.146303	13.940733	
0.75000	0.366331	36.654173	2.112320
0.002613	2.123148	9.971045	
1.00000	0.366331	49.188282	2.112320
0.002613	4.110982	0.092138	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.432565	-48.814393	-5.331911
-0.002088	-3.687851	-24.980401	
0.25000	-0.432565	-39.172723	-5.331911
-0.002088	-1.869104	-18.082465	
0.50000	-0.432565	-28.351781	-5.331911
-0.002088	-0.071484	-12.046092	
0.75000	-0.432565	-20.562695	-5.331911
-0.002088	-1.084210	-6.021302	
1.00000	-0.432565	-20.372774	-5.331911
-0.002088	-1.630396	-0.244013	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4418
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.339293	8.179965	2.388893
0.002178	1.719094	9.598955	
0.25000	0.339293	12.882360	2.388893
0.002178	0.828154	11.180600	
0.50000	0.339293	21.633269	2.388893
0.002178	0.160555	12.128768	
0.75000	0.339293	31.466947	2.388893
0.002178	2.343514	8.568600	
1.00000	0.339293	41.993535	2.388893
0.002178	4.536176	0.103845	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.467016	-41.063377	-5.880868
-0.003050	-4.249130	-21.091743	
0.25000	-0.467016	-32.965963	-5.880868
-0.003050	-2.055829	-15.266286	
0.50000	-0.467016	-23.878154	-5.880868
-0.003050	-0.075935	-10.169062	
0.75000	-0.467016	-17.336773	-5.880868
-0.003050	-0.952891	-5.085225	
1.00000	-0.467016	-17.177102	-5.880868
-0.003050	-1.843773	-0.270264	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.034988	1.236379	0.966063
8.75E-07	0.694909	1.581117	
0.25000	0.034988	1.244470	0.966063
8.75E-07	0.334416	1.172594	
0.50000	0.034988	1.259525	0.966063
8.75E-07	0.060852	0.770318	
0.75000	0.034988	1.276443	0.966063
8.75E-07	0.917562	0.363899	
1.00000	0.034988	1.294553	0.966063
8.75E-07	1.773926	0.041473	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.214892	-0.271638	-2.296519
-0.001958	-1.651697	-0.276345	
0.25000	-0.214892	-0.257707	-2.296519
-0.001958	-0.795325	-0.200854	
0.50000	-0.214892	-0.242072	-2.296519
-0.001958	-0.024847	-0.125776	
0.75000	-0.214892	-0.230818	-2.296519
-0.001958	-0.385264	-0.075309	
1.00000	-0.214892	-0.230543	-2.296519
-0.001958	-0.745618	-0.107216	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.176866	2.489766	1.671856
8.06E-06	1.202242	3.089917	
0.25000	0.176866	2.756741	1.671856
8.06E-06	0.578578	2.512487	
0.50000	0.176866	3.253567	1.671856
8.06E-06	0.101819	1.909653	
0.75000	0.176866	3.811866	1.671856
8.06E-06	1.532534	1.057033	
1.00000	0.176866	4.409504	1.671856
8.06E-06	2.963543	0.072654	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.276431	-3.107843	-3.837600
-0.003509	-2.761693	-2.111497	
0.25000	-0.276431	-2.648119	-3.837600
-0.003509	-1.330606	-1.542211	
0.50000	-0.276431	-2.132166	-3.837600
-0.003509	-0.044241	-1.026179	
0.75000	-0.276431	-1.760784	-3.837600
-0.003509	-0.666994	-0.518612	
1.00000	-0.276431	-1.751719	-3.837600
-0.003509	-1.290670	-0.011936	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4419
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.131631	3.287487	1.854295
7.24E-06	1.333859	4.062027	
0.25000	0.131631	3.294768	1.854295
7.24E-06	0.642195	3.006810	
0.50000	0.131631	3.308318	1.854295
7.24E-06	0.134373	1.959751	
0.75000	0.131631	3.323544	1.854295
7.24E-06	2.034461	0.913106	
1.00000	0.131631	3.339843	1.854295
7.24E-06	3.934281	0.079867	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.425536	-0.713623	-5.094739
-0.003864	-3.665053	-0.830613	
0.25000	-0.425536	-0.701085	-5.094739
-0.003864	-1.765210	-0.608371	
0.50000	-0.425536	-0.667013	-5.094739
-0.003864	-0.047345	-0.398655	
0.75000	-0.425536	-0.676885	-5.094739
-0.003864	-0.739782	-0.196750	
1.00000	-0.425536	-0.676637	-5.094739
-0.003864	-1.431411	-0.231755	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.227503	8.663764	2.247255
0.001377	1.617007	10.139579	
0.25000	0.227503	13.760553	2.247255
0.001377	0.778769	11.921316	
0.50000	0.227503	23.245409	2.247255
0.001377	0.162977	13.016419	
0.75000	0.227503	33.903847	2.247255
0.001377	2.364029	9.224618	
1.00000	0.227503	45.313310	2.247255
0.001377	4.575420	0.097267	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.546012	-44.550374	-5.931405
-0.003366	-4.260252	-22.983616	
0.25000	-0.546012	-35.773822	-5.931405
-0.003366	-2.074156	-16.566154	
0.50000	-0.546012	-25.923810	-5.931405
-0.003366	-0.073637	-11.039245	
0.75000	-0.546012	-18.833796	-5.931405
-0.003366	-0.896462	-5.519977	
1.00000	-0.546012	-18.660734	-5.931405
-0.003366	-1.734579	-0.272660	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.453001	15.118987	1.405641
0.003842	1.011803	22.485772	
0.25000	0.453001	36.291799	1.405641
0.003842	0.487624	40.533283	
0.50000	0.453001	61.096178	1.405641
0.003842	0.112749	45.498662	
0.75000	0.453001	88.320231	1.405641
0.003842	1.439020	32.868766	
1.00000	0.453001	116.752063	1.405641
0.003842	2.783526	0.064974	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.494707	-116.371626	-3.613826
-0.003787	-2.626822	-61.720360	
0.25000	-0.494707	-101.379150	-3.613826
-0.003787	-1.279189	-46.289097	
0.50000	-0.494707	-82.099294	-3.613826
-0.003787	-0.062865	-30.857842	
0.75000	-0.494707	-60.167965	-3.613826
-0.003787	-0.560733	-15.444353	
1.00000	-0.494707	-41.380548	-3.613826
-0.003787	-1.084911	-0.168252	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4420
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.602606	14.308341	2.651060
0.004514	1.907876	16.396540	
0.25000	0.602606	27.187846	2.651060
0.004514	0.919200	23.305329	
0.50000	0.602606	51.155927	2.651060
0.004514	0.162977	28.459589	
0.75000	0.602606	78.089631	2.651060
0.004514	2.364029	21.249526	
1.00000	0.602606	106.921161	2.651060
0.004514	4.575420	0.115074	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.546012	-111.117481	-5.931405
-0.003864	-4.286252	-56.005611	
0.25000	-0.546012	-88.939273	-5.931405
-0.003864	-2.074156	-40.523553	
0.50000	-0.546012	-64.048448	-5.931405
-0.003864	-0.097543	-27.018214	
0.75000	-0.546012	-46.132097	-5.931405
-0.003864	-1.057358	-13.524973	
1.00000	-0.546012	-45.694772	-5.931405
-0.003864	-2.046115	-0.272660	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.602606	15.118987	2.651060
0.004514	1.907876	22.485772	
0.25000	0.602606	36.291799	2.651060
0.004514	0.919200	40.533283	
0.50000	0.602606	61.096178	2.651060
0.004514	0.162977	45.498662	
0.75000	0.602606	88.320231	2.651060
0.004514	2.364029	32.868766	
1.00000	0.602606	116.752063	2.651060
0.004514	4.575420	0.115074	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.546012	-116.371626	-5.931405
-0.003864	-4.286252	-61.720360	
0.25000	-0.546012	-101.379150	-5.931405
-0.003864	-2.074156	-46.289097	
0.50000	-0.546012	-82.099294	-5.931405
-0.003864	-0.097543	-30.857842	
0.75000	-0.546012	-60.167965	-5.931405
-0.003864	-1.057358	-15.444353	
1.00000	-0.546012	-45.694772	-5.931405
-0.003864	-2.046115	-0.272660	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.602606	15.118987	2.651060
0.004514	1.907876	22.485772	
0.25000	0.602606	36.291799	2.651060
0.004514	0.919200	40.533283	
0.50000	0.602606	61.096178	2.651060
0.004514	0.162977	45.498662	
0.75000	0.602606	88.320231	2.651060
0.004514	2.364029	32.868766	
1.00000	0.602606	116.752063	2.651060
0.004514	4.575420	0.115074	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.546012	-116.371626	-5.931405
-0.003864	-4.286252	-61.720360	
0.25000	-0.546012	-101.379150	-5.931405
-0.003864	-2.074156	-46.289097	
0.50000	-0.546012	-82.099294	-5.931405
-0.003864	-0.097543	-30.857842	
0.75000	-0.546012	-60.167965	-5.931405
-0.003864	-1.057358	-15.444353	
1.00000	-0.546012	-45.694772	-5.931405
-0.003864	-2.046115	-0.272660	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4421
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 429 ========== LENGTH = 4.449003

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.030949	0.107710	0.119854
7.50E-07	0.277694	0.013662	
0.25000	0.030949	0.142090	0.119854
7.50E-07	0.144424	0.486919	
0.50000	0.030949	0.174180	0.119854
7.50E-07	0.010948	0.920461	
0.75000	0.030949	0.198768	0.119854
7.50E-07	0.104039	1.299478	
1.00000	0.030949	0.218945	0.119854
7.50E-07	0.215526	1.654403	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.015366	-0.489901	-0.100225
-0.001327	-0.230371	-0.015794	
0.25000	-0.015366	-0.451849	-0.100225
-0.001327	-0.118879	-0.121976	
0.50000	-0.015366	-0.420820	-0.100225
-0.001327	-0.007129	-0.241562	
0.75000	-0.015366	-0.394132	-0.100225
-0.001327	-0.122293	-0.361275	
1.00000	-0.015366	-0.375373	-0.100225
-0.001327	-0.255601	-0.525253	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.162820	0.456249	0.244025
4.61E-06	0.567593	0.022202	
0.25000	0.162820	1.418875	0.244025
4.61E-06	0.296881	3.093516	
0.50000	0.162820	2.317399	0.244025
4.61E-06	0.026135	4.886893	
0.75000	0.162820	3.005865	0.244025
4.61E-06	0.170122	4.853503	
1.00000	0.162820	3.570813	0.244025
4.61E-06	0.352316	4.145515	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.015442	-4.145760	-0.163846
-0.002457	-0.376614	-0.033254	
0.25000	-0.015442	-3.080316	-0.163846
-0.002457	-0.194360	-0.508549	
0.50000	-0.015442	-2.211484	-0.163846
-0.002457	-0.012561	-1.015718	
0.75000	-0.015442	-1.464234	-0.163846
-0.002457	-0.248397	-1.523013	
1.00000	-0.015442	-0.938973	-0.163846
-0.002457	-0.519770	-3.267441	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.230675	0.259086	0.346990
6.76E-07	0.806711	0.024180	
0.25000	0.230675	0.290027	0.346990
6.76E-07	0.420814	1.820651	
0.50000	0.230675	0.318908	0.346990
6.76E-07	0.035215	3.619275	
0.75000	0.230675	0.341038	0.346990
6.76E-07	0.185617	5.368826	
1.00000	0.230675	0.359197	0.346990
6.76E-07	0.385815	7.096694	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.016244	-1.707204	-0.179899
-0.003087	-0.414555	-0.046749	
0.25000	-0.016244	-1.672958	-0.179899
-0.003087	-0.214385	-0.252903	
0.50000	-0.016244	-1.645031	-0.179899
-0.003087	-0.013660	-0.570847	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4422
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.016244	-1.621012	-0.179899
-0.003087	-0.351181	-0.858874	
1.00000	-0.016244	-1.604129	-0.179899
-0.003087	-0.737104	-1.186795	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197975	5.522592	0.397221
0.000764	0.935523	0.033045	
0.25000	0.197975	23.752324	0.397221
0.000764	0.507104	49.027259	
0.50000	0.197975	40.768116	0.397221
0.000764	0.078958	61.505792	
0.75000	0.197975	53.805959	0.397221
0.000764	0.240238	45.072465	
1.00000	0.197975	64.504654	0.397221
0.000764	0.497011	15.863931	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.088270	-64.303994	-0.231871
-0.002776	-0.534583	-0.063957	
0.25000	-0.088270	-44.127161	-0.231871
-0.002776	-0.276621	-6.132114	
0.50000	-0.088270	-27.673655	-0.231871
-0.002776	-0.034514	-12.274398	
0.75000	-0.088270	-13.522598	-0.231871
-0.002776	-0.421932	-18.416784	
1.00000	-0.088270	-3.575467	-0.231871
-0.002776	-0.863723	-47.984561	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.161806	0.107429	0.149437
6.83E-06	0.348271	0.008205	
0.25000	0.161806	0.141808	0.149437
6.83E-06	0.182085	0.836576	
0.50000	0.161806	0.173898	0.149437
6.83E-06	0.016448	1.622798	
0.75000	0.161806	0.198486	0.149437
6.83E-06	0.061856	2.354490	
1.00000	0.161806	0.218663	0.149437
6.83E-06	0.128252	3.062090	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.003928	-0.806584	-0.059642
-0.001268	-0.137096	-0.020422	
0.25000	-0.003928	-0.768932	-0.059642
-0.001268	-0.070761	-0.116154	
0.50000	-0.003928	-0.737902	-0.059642
-0.001268	-0.004376	-0.235589	
0.75000	-0.003928	-0.711215	-0.059642
-0.001268	-0.061510	-0.355039	
1.00000	-0.003928	-0.692455	-0.059642
-0.001268	-0.316679	-0.518695	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.208951	7.367596	0.287226
0.000104	0.684631	0.017047	
0.25000	0.208951	32.327116	0.287226
0.000104	0.383491	65.758128	
0.50000	0.208951	55.624552	0.287226
0.000104	0.083015	81.445718	
0.75000	0.208951	73.475516	0.287226
0.000104	0.114434	57.548185	
1.00000	0.208951	88.123801	0.287226
0.000104	0.235412	16.159281	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.022114	-86.786304	-0.110174
-0.001891	-0.254753	-0.052622	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4423
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.022114	-59.160881	-0.110174
-0.001891	-0.132150	-8.187383	
0.50000	-0.022114	-36.633307	-0.110174
-0.001891	-0.031761	-16.581994	
0.75000	-0.022114	-17.258168	-0.110174
-0.001891	-0.317530	-24.576579	
1.00000	-0.022114	-3.638901	-0.110174
-0.001891	-0.636976	-64.844269	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.244066	6.736361	0.362954
9.43E-05	0.858677	0.025665	
0.25000	0.244066	29.292754	0.362954
9.43E-05	0.471555	59.765198	
0.50000	0.244066	50.347089	0.362954
9.43E-05	0.084890	74.294105	
0.75000	0.244066	66.479345	0.362954
9.43E-05	0.181673	53.049277	
1.00000	0.244066	79.717278	0.362954
9.43E-05	0.374795	15.997331	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023604	-78.746774	-0.174922
-0.002774	-0.403434	-0.061289	
0.25000	-0.023604	-53.781154	-0.174922
-0.002774	-0.208806	-7.487125	
0.50000	-0.023604	-33.422557	-0.174922
-0.002774	-0.034108	-14.979499	
0.75000	-0.023604	-15.912876	-0.174922
-0.002774	-0.391954	-22.471902	
1.00000	-0.023604	-3.604885	-0.174922
-0.002774	-0.795636	-58.949454	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209991	4.541319	0.413976
0.001342	0.973057	0.035378	
0.25000	0.209991	19.341696	0.413976
0.001342	0.523486	40.431055	
0.50000	0.209991	33.156497	0.413976
0.001342	0.074447	51.198467	
0.75000	0.209991	43.741677	0.413976
0.001342	0.257992	38.492904	
1.00000	0.209991	52.427746	0.413976
0.001342	0.534561	15.415424	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126655	-52.779384	-0.249467
-0.002453	-0.575319	-0.065045	
0.25000	-0.126655	-36.398193	-0.249467
-0.002453	-0.297791	-5.034734	
0.50000	-0.126655	-23.039900	-0.249467
-0.002453	-0.033045	-10.085619	
0.75000	-0.126655	-11.550923	-0.249467
-0.002453	-0.434235	-15.136582	
1.00000	-0.126655	-3.475035	-0.249467
-0.002453	-0.894661	-39.206166	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.011020	0.127090	0.175904
0.002309	0.410403	0.024370	
0.25000	0.011020	0.161470	0.175904
0.002309	0.214778	1.267856	
0.50000	0.011020	0.193560	0.175904
0.002309	0.019533	2.486972	
0.75000	0.011020	0.218148	0.175904
0.002309	0.182438	3.651563	
1.00000	0.011020	0.238325	0.175904
0.002309	0.379221	4.792061	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4424
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.174351	-1.196193	-0.176920
-2.21E-05	-0.407898	-0.025935	
0.25000	-0.174351	-1.158141	-0.176920
-2.21E-05	-0.211118	-0.122778	
0.50000	-0.174351	-1.127112	-0.176920
-2.21E-05	-0.014099	-0.263963	
0.75000	-0.174351	-1.100424	-0.176920
-2.21E-05	0.176660	-0.405229	
1.00000	-0.174351	-1.081665	-0.176920
-2.21E-05	-0.372257	-0.590672	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.031752	8.938851	0.300622
0.002693	0.719986	0.037088	
0.25000	0.031752	39.330332	0.300622
0.002693	0.407883	80.051526	
0.50000	0.031752	67.698008	0.300622
0.002693	0.096217	99.129248	
0.75000	0.031752	89.433893	0.300622
0.002693	0.259392	70.006903	
1.00000	0.031752	107.270096	0.300622
0.002693	0.535476	19.586525	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.226340	-105.652088	-0.249974
-0.000354	-0.576661	-0.059451	
0.25000	-0.226340	-72.014520	-0.249974
-0.000354	-0.298611	-9.920297	
0.50000	-0.226340	-44.584251	-0.249974
-0.000354	-0.047679	-19.862365	
0.75000	-0.226340	-20.992484	-0.249974
-0.000354	-0.336515	-29.804520	
1.00000	-0.226340	-4.409244	-0.249974
-0.000354	-0.670871	-78.799853	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.153082	6.263017	0.398082
0.002390	0.940836	0.036865	
0.25000	0.153082	27.117624	0.398082
0.002390	0.523406	56.135393	
0.50000	0.153082	46.583498	0.398082
0.002390	0.086762	70.450517	
0.75000	0.153082	61.498643	0.398082
0.002390	0.263740	51.690799	
1.00000	0.153082	73.737829	0.398082
0.002390	0.546512	18.316389	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.195821	-73.598846	-0.255357
-0.001348	-0.589571	-0.067328	
0.25000	-0.195821	-50.516777	-0.255357
-0.001348	-0.305492	-6.940898	
0.50000	-0.195821	-31.694151	-0.255357
-0.001348	-0.039706	-13.906804	
0.75000	-0.195821	-15.505502	-0.255357
-0.001348	-0.424151	-20.872769	
1.00000	-0.195821	-4.126098	-0.255357
-0.001348	-0.866917	-54.636991	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.211415	5.249100	0.427913
0.001991	1.007723	0.038859	
0.25000	0.211415	22.499016	0.427913
0.001991	0.544446	46.805634	
0.50000	0.211415	38.600240	0.427913
0.001991	0.081847	59.032633	
0.75000	0.211415	50.937322	0.427913
0.001991	0.282169	43.901787	
1.00000	0.211415	61.060981	0.427913
0.001991	0.584640	16.682373	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4425
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.165209	-61.224702	-0.272877
-0.002053	-0.629390	-0.069065	
0.25000	-0.165209	-42.132338	-0.272877
-0.002053	-0.325836	-5.817465	
0.50000	-0.165209	-26.563178	-0.272877
-0.002053	-0.037262	-11.655567	
0.75000	-0.165209	-13.172715	-0.272877
-0.002053	-0.450499	-17.493739	
1.00000	-0.165209	-3.760226	-0.272877
-0.002053	-0.926419	-45.498176	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.029684	0.141314	0.195918
4.76E-07	0.452874	0.016104	
0.25000	0.029684	0.155963	0.195918
4.76E-07	0.234588	0.479422	
0.50000	0.029684	0.175843	0.195918
4.76E-07	0.015715	0.930586	
0.75000	0.029684	0.194277	0.195918
4.76E-07	0.135961	1.355384	
1.00000	0.029684	0.209493	0.195918
4.76E-07	0.281690	1.775272	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023318	-0.513382	-0.131068
-0.001382	-0.301514	-0.027006	
0.25000	-0.023318	-0.489872	-0.131068
-0.001382	-0.155726	-0.153145	
0.50000	-0.023318	-0.469443	-0.131068
-0.001382	-0.009441	-0.300626	
0.75000	-0.023318	-0.453340	-0.131068
-0.001382	-0.201166	-0.447822	
1.00000	-0.023318	-0.443789	-0.131068
-0.001382	-0.419707	-0.616925	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.145755	0.432199	0.377429
2.67E-06	0.875048	0.027061	
0.25000	0.145755	0.857022	0.377429
2.67E-06	0.454943	2.135798	
0.50000	0.145755	1.433554	0.377429
2.67E-06	0.034629	3.334039	
0.75000	0.145755	1.968132	0.377429
2.67E-06	0.225328	3.770425	
1.00000	0.145755	2.409407	0.377429
2.67E-06	0.465945	4.030328	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.017917	-3.047290	-0.216860
-0.002564	-0.498943	-0.051995	
0.25000	-0.017917	-2.365516	-0.216860
-0.002564	-0.257825	-0.427214	
0.50000	-0.017917	-1.773074	-0.216860
-0.002564	-0.016301	-0.847382	
0.75000	-0.017917	-1.306079	-0.216860
-0.002564	-0.385620	-1.266739	
1.00000	-0.017917	-1.029116	-0.216860
-0.002564	-0.805853	-2.327938	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.207573	0.354406	0.504729
1.15E-05	1.171977	0.030464	
0.25000	0.207573	0.367590	0.504729
1.15E-05	0.609903	1.727046	
0.50000	0.207573	0.385483	0.504729
1.15E-05	0.047686	3.457954	
0.75000	0.207573	0.402073	0.504729
1.15E-05	0.257656	5.164727	
1.00000	0.207573	0.415768	0.504729
1.15E-05	0.536244	6.867279	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4426
< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023218	-1.825952	-0.250495
-0.003040	-0.576711	-0.067210	
0.25000	-0.023218	-1.804793	-0.250495
-0.003040	-0.298146	-0.367890	
0.50000	-0.023218	-1.786407	-0.250495
-0.003040	-0.018491	-0.737792	
0.75000	-0.023218	-1.771914	-0.250495
-0.003040	-0.511733	-1.105908	
1.00000	-0.023218	-1.763319	-0.250495
-0.003040	-1.074010	-1.493810	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.183314	4.878087	0.608482
0.000740	1.428221	0.041013	
0.25000	0.183314	15.128783	0.608482
0.000740	0.756551	30.576251	
0.50000	0.183314	29.040099	0.608482
0.000740	0.087640	38.166384	
0.75000	0.183314	41.939104	0.608482
0.000740	0.349545	27.375376	
1.00000	0.183314	52.586755	0.608482
0.000740	0.702338	12.290929	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.082492	-52.029633	-0.327058
-0.002730	-0.753544	-0.089582	
0.25000	-0.082492	-35.578888	-0.327058
-0.002730	-0.389311	-4.333913	
0.50000	-0.082492	-21.283681	-0.327058
-0.002730	-0.039389	-8.686275	
0.75000	-0.082492	-10.015400	-0.327058
-0.002730	-0.630742	-13.040252	
1.00000	-0.082492	-3.332489	-0.327058
-0.002730	-1.306146	-32.888703	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.142152	0.138878	0.204590
4.06E-06	0.476103	0.011204	
0.25000	0.142152	0.153527	0.204590
4.06E-06	0.248498	0.733250	
0.50000	0.142152	0.173407	0.204590
4.06E-06	0.021164	1.450862	
0.75000	0.142152	0.191841	0.204590
4.06E-06	0.088259	2.142008	
1.00000	0.142152	0.207057	0.204590
4.06E-06	0.183125	2.827156	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.005302	-0.796905	-0.085468
-0.001263	-0.196875	-0.027373	
0.25000	-0.005302	-0.773396	-0.085468
-0.001263	-0.101849	-0.141798	
0.50000	-0.005302	-0.752967	-0.085468
-0.001263	-0.006420	-0.286041	
0.75000	-0.005302	-0.736864	-0.085468
-0.001263	-0.206410	-0.429586	
1.00000	-0.005302	-0.727313	-0.085468
-0.001263	-0.434111	-0.595054	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.188168	7.088245	0.394097
8.39E-05	0.939863	0.020970	
0.25000	0.188168	22.689533	0.394097
8.39E-05	0.510385	44.883728	

0.50000	0.188168	43.862153	0.394097
8.39E-05	0.085602	54.745215	
0.75000	0.188168	63.494079	0.394097
8.39E-05	0.184262	36.631555	
1.00000	0.188168	79.698507	0.394097
8.39E-05	0.345850	11.981833	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4427

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023152	-77.447550	-0.160630
-0.001769	-0.370274	-0.061971	
0.25000	-0.023152	-52.409974	-0.160630
-0.001769	-0.191426	-6.239408	
0.50000	-0.023152	-30.653068	-0.160630
-0.001769	-0.034726	-12.494870	
0.75000	-0.023152	-13.503058	-0.160630
-0.001769	-0.418507	-18.753553	
1.00000	-0.023152	-3.331854	-0.160630
-0.001769	-0.853566	-48.592997	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.220181	6.522350	0.520746
7.60E-05	1.230545	0.031140	
0.25000	0.220181	20.642614	0.520746
7.60E-05	0.659027	40.989589	
0.50000	0.220181	39.805326	0.520746
7.60E-05	0.091341	50.287853	
0.75000	0.220181	57.573601	0.520746
7.60E-05	0.268874	34.266652	
1.00000	0.220181	72.240655	0.520746
7.60E-05	0.524546	12.330520	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.025811	-70.465510	-0.243808
-0.002697	-0.561521	-0.078712	
0.25000	-0.025811	-47.804740	-0.243808
-0.002697	-0.290104	-5.763190	
0.50000	-0.025811	-28.113208	-0.243808
-0.002697	-0.038378	-11.536488	
0.75000	-0.025811	-12.591241	-0.243808
-0.002697	-0.546513	-17.312393	
1.00000	-0.025811	-3.385585	-0.243808
-0.002697	-1.122992	-44.430410	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.192959	4.122010	0.652352
0.001355	1.528438	0.044733	
0.25000	0.192959	12.636797	0.652352
0.001355	0.807202	25.910027	
0.50000	0.192959	24.192276	0.652352
0.001355	0.087993	32.746893	
0.75000	0.192959	34.906884	0.652352
0.001355	0.376405	24.315149	
1.00000	0.192959	43.751396	0.652352
0.001355	0.763700	12.316798	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.114472	-43.762358	-0.355977
-0.002375	-0.820530	-0.095845	
0.25000	-0.114472	-30.097484	-0.355977
-0.002375	-0.423783	-3.664279	
0.50000	-0.114472	-18.223116	-0.355977
-0.002375	-0.039338	-7.357395	
0.75000	-0.114472	-8.863075	-0.355977
-0.002375	-0.671782	-11.051107	
1.00000	-0.114472	-3.311890	-0.355977
-0.002375	-1.395974	-27.614331	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.014088	0.173360	0.359541
0.002437	0.835300	0.032129	
0.25000	0.014088	0.188009	0.359541
0.002437	0.435201	1.121310	
0.50000	0.014088	2.203890	0.359541
0.002437	0.034679	2.257710	
0.75000	0.014088	0.226323	0.359541
0.002437	0.264881	3.367085	
1.00000	0.014088	0.241540	0.359541
0.002437	0.552567	4.470370	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4428

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.156379	-1.221683	-0.257938
-1.76E-05	-0.558062	-0.054708	
0.25000	-0.156379	-1.198174	-0.257938
-1.76E-05	-0.308171	-0.147185	
0.50000	-0.156379	-1.177745	-0.257938
-1.76E-05	-0.020160	-0.327972	
0.75000	-0.156379	-1.161641	-0.257938
-1.76E-05	-0.263907	-0.508123	
1.00000	-0.156379	-1.152091	-0.257938
-1.76E-05	-0.764146	-0.709900	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036523	9.971913	0.556719
0.002726	1.325818	0.047043	
0.25000	0.036523	32.121347	0.556719
0.002726	0.718933	63.352093	
0.50000	0.036523	62.180504	0.556719
0.002726	0.117982	76.997555	
0.75000	0.036523	90.052308	0.556719
0.002726	0.401243	50.926067	
1.00000	0.036523	113.059452	0.556719
0.002726	0.781042	15.575219	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.199919	-109.585357	-0.362607
-0.000276	-0.836631	-0.095927	
0.25000	-0.199919	-74.039052	-0.362607
-0.000276	-0.432872	-8.740609	
0.50000	-0.199919	-43.150375	-0.362607
-0.000276	-0.060243	-17.531078	
0.75000	-0.199919	-18.802190	-0.362607
-0.000276	-0.593964	-26.327356	
1.00000	-0.199919	-4.361946	-0.362607
-0.000276	-1.208716	-68.601420	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.142824	7.355937	0.660164
0.002432	1.558512	0.047800	
0.25000	0.142824	23.321987	0.660164
0.002432	0.833058	46.681502	
0.50000	0.142824	44.989629	0.660164
0.002432	0.111713	57.561316	
0.75000	0.142824	65.080555	0.660164
0.002432	0.405476	39.811253	
1.00000	0.142824	81.664871	0.660164
0.002432	0.806385	15.372255	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.175934	-80.059370	-0.375578
-0.001207	-0.866275	-0.104179	
0.25000	-0.175934	-54.436408	-0.375578
-0.001207	-0.448245	-6.459750	
0.50000	-0.175934	-32.170820	-0.375578
-0.001207	-0.052092	-12.968200	
0.75000	-0.175934	-14.619637	-0.375578
-0.001207	-0.688513	-19.479571	
1.00000	-0.175934	-4.210828	-0.375578
-0.001207	-1.419532	-50.122839	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.192851	6.197650	0.697600
0.002027	1.640758	0.049505	
0.25000	0.192851	19.447757	0.697600
0.002027	0.871999	39.112103	
0.50000	0.192851	37.429574	0.697600
0.002027	0.106665	48.520738	
0.75000	0.192851	54.102886	0.697600
0.002027	0.419648	34.169574	
1.00000	0.192851	67.866088	0.697600
0.002027	0.841595	14.267908	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4429

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.149351	-66.823259	-0.391925
-0.001994	-0.903599	-0.107063	
0.25000	-0.149351	-45.587453	-0.391925
-0.001994	-0.467476	-5.460284	
0.50000	-0.149351	-27.080904	-0.391925
-0.001994	-0.049049	-10.958814	
0.75000	-0.149351	-12.515472	-0.391925
-0.001994	-0.723735	-16.459340	
1.00000	-0.149351	-3.877111	-0.391925
-0.001994	-1.497102	-41.986633	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.244066	8.938851	0.427913
0.002693	1.007723	0.038859	
0.25000	0.244066	39.330332	0.427913
0.002693	0.544446	80.051526	
0.50000	0.244066	67.698008	0.427913
0.002693	0.096217	99.129248	
0.75000	0.244066	89.433893	0.427913
0.002693	0.262169	70.006903	
1.00000	0.244066	107.270096	0.427913
0.002693	0.584640	19.586525	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.226340	-105.652088	-0.272877
-0.003087	-0.629390	-0.069065	
0.25000	-0.226340	-72.014520	-0.272877
-0.003087	-0.325836	-9.920297	
0.50000	-0.226340	-44.584251	-0.272877
-0.003087	0.047679	-19.862365	
0.75000	-0.226340	-20.992484	-0.272877
-0.003087	-0.450499	-29.804520	
1.00000	-0.226340	-4.409244	-0.272877
-0.003087	-0.926419	-78.799853	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.220181	9.971913	0.697600
0.002726	1.640758	0.049505	
0.25000	0.220181	32.121347	0.697600
0.002726	0.871999	63.352093	
0.50000	0.220181	62.180504	0.697600
0.002726	0.117982	76.997555	
0.75000	0.220181	90.052308	0.697600
0.002726	0.419648	50.926067	
1.00000	0.220181	113.059452	0.697600
0.002726	0.841595	15.575219	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.199919	-109.585357	-0.391925
-0.003040	-0.903599	-0.107063	
0.25000	-0.199919	-74.039052	-0.391925
-0.003040	-0.467476	-8.740609	
0.50000	-0.199919	-43.150375	-0.391925
-0.003040	-0.060243	-17.531078	
0.75000	-0.199919	-18.802190	-0.391925
-0.003040	-0.723735	-26.327356	
1.00000	-0.199919	-4.361946	-0.391925
-0.003040	-1.497102	-68.601420	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.244066	9.971913	0.697600
0.002726	1.640758	0.049505	
0.25000	0.244066	39.330332	0.697600
0.002726	0.871999	80.051526	
0.50000	0.244066	67.698008	0.697600
0.002726	0.117982	99.129248	
0.75000	0.244066	90.052308	0.697600
0.002726	0.419648	70.006903	
1.00000	0.244066	113.059452	0.697600
0.002726	0.841595	19.586525	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4430

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.226340	-109.585357	-0.391925
-0.003087	-0.903599	-0.107063	
0.25000	-0.226340	-74.039052	-0.391925
-0.003087	-0.467476	-9.920297	
0.50000	-0.226340	-44.584251	-0.391925
-0.003087	-0.060243	-19.862365	
0.75000	-0.226340	-20.992484	-0.391925
-0.003087	-0.723735	-29.804520	
1.00000	-0.226340	-4.409244	-0.391925
-0.003087	-1.497102	-78.799853	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.244066	9.971913	0.697600
0.002726	1.640758	0.049505	
0.25000	0.244066	39.330332	0.697600
0.002726	0.871999	80.051526	
0.50000	0.244066	67.698008	0.697600
0.002726	0.117982	99.129248	
0.75000	0.244066	90.052308	0.697600
0.002726	0.419648	70.006903	
1.00000	0.244066	113.059452	0.697600
0.002726	0.841595	19.586525	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.226340	-109.585357	-0.391925
-0.003087	-0.903599	-0.107063	
0.25000	-0.226340	-74.039052	-0.391925
-0.003087	-0.467476	-9.920297	
0.50000	-0.226340	-44.584251	-0.391925
-0.003087	-0.060243	-19.862365	
0.75000	-0.226340	-20.992484	-0.391925
-0.003087	-0.723735	-29.804520	
1.00000	-0.226340	-4.409244	-0.391925
-0.003087	-1.497102	-78.799853	

ELEM 430 ========== LENGTH = 4.942978

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070570	0.075672	0.083951
6.25E-07	0.211498	1.622853	
0.25000	0.070570	0.093968	0.083951
6.25E-07	0.107866	1.842604	
0.50000	0.070570	0.131746	0.083951
6.25E-07	0.004411	2.040711	
0.75000	0.070570	0.161433	0.083951
6.25E-07	0.096596	2.188679	
1.00000	0.070570	0.192688	0.083951
6.25E-07	0.191144	2.306290	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.019917	-0.283664	-0.076504
-0.000883	-0.187017	-0.529647	
0.25000	-0.019917	-0.252745	-0.076504
-0.000883	-0.092490	-0.550243	
0.50000	-0.019917	-0.223866	-0.076504
-0.000883	-0.002328	-0.624152	
0.75000	-0.019917	-0.192187	-0.076504
-0.000883	-0.099757	-0.698616	
1.00000	-0.019917	-0.168130	-0.076504
-0.000883	-0.203496	-0.828314	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.253687	0.473942	0.161578
4.28E-06	0.409504	4.086101	
0.25000	0.253687	1.154215	0.161578
4.28E-06	0.210477	5.933356	
0.50000	0.253687	2.044011	0.161578
4.28E-06	0.014067	7.148195	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4431

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.253687	2.875238	0.161578
4.28E-06	0.157785	6.861651	
1.00000	0.253687	3.750377	0.161578
4.28E-06	0.312036	5.567375	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.020314	-4.018359	-0.124904
-0.001586	-0.305505	-3.269734	
0.25000	-0.020314	-3.152637	-0.124904
-0.001586	-0.151440	-1.870865	
0.50000	-0.020314	-2.344029	-0.124904
-0.001586	-0.005233	-1.964769	
0.75000	-0.020314	-1.457003	-0.124904
-0.001586	-0.190358	-2.074192	
1.00000	-0.020314	-0.783424	-0.124904
-0.001586	-0.389958	-3.730176	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.349013	0.351694	0.225900
5.62E-07	0.573957	7.037159	
0.25000	0.349013	0.373560	0.225900
5.62E-07	0.295009	7.405579	
0.50000	0.349013	0.402161	0.225900
5.62E-07	0.022363	7.984009	
0.75000	0.349013	0.428879	0.225900
5.62E-07	0.164836	8.741572	
1.00000	0.349013	0.457008	0.225900
5.62E-07	0.328787	9.609364	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.022307	-0.960013	-0.132600
-0.001849	-0.326647	-1.179324	
0.25000	-0.022307	-0.932187	-0.132600
-0.001849	-0.162700	-1.322382	
0.50000	-0.022307	-0.906196	-0.132600
-0.001849	-0.004621	-1.513425	
0.75000	-0.022307	-0.877684	-0.132600
-0.001849	-0.263981	-1.704983	
1.00000	-0.022307	-0.856033	-0.132600
-0.001849	-0.543021	-1.946252	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.301280	6.616349	0.264590
0.000582	0.668021	15.820527	
0.25000	0.301280	19.499027	0.264590
0.000582	0.352004	45.699137	
0.50000	0.301280	36.349530	0.264590
0.000582	0.054966	63.156131	
0.75000	0.301280	52.090891	0.264590
0.000582	0.211876	51.002572	
1.00000	0.301280	68.663851	0.264590
0.000582	0.419305	19.246131	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126856	-68.939468	-0.169338
-0.001601	-0.421404	-47.951874	
0.25000	-0.126856	-52.543854	-0.169338
-0.001601	-0.217592	-19.055737	
0.50000	-0.126856	-37.230837	-0.169338
-0.001601	-0.031104	-18.429009	
0.75000	-0.126856	-20.432794	-0.169338
-0.001601	-0.223399	-18.096168	
1.00000	-0.126856	-7.676879	-0.169338
-0.001601	-0.650235	-47.051328	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.220704	0.092363	0.092417
5.52E-06	0.236260	3.033842	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4432

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.220704	0.116659	0.092417
5.52E-06	0.122200	3.235285	
0.50000	0.220704	0.148437	0.092417
5.52E-06	0.011872	3.493128	
0.75000	0.220704	0.178124	0.092417
5.52E-06	0.057261	3.768632	
1.00000	0.220704	0.209379	0.092417
5.52E-06	0.113329	4.089494	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.008093	-0.501767	-0.045354
-0.000745	-0.110850	-0.513551	
0.25000	-0.008093	-0.470849	-0.045354
-0.000745	-0.054757	-0.533678	
0.50000	-0.008093	-0.441970	-0.045354
-0.000745	-0.001672	-0.607118	
0.75000	-0.008093	-0.410290	-0.045354
-0.000745	-0.106794	-0.681113	
1.00000	-0.008093	-0.386234	-0.045354
-0.000745	-0.220884	-0.810342	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.291753	8.696007	0.190750
9.87E-05	0.479686	16.145751	
0.25000	0.291753	26.334525	0.190750
9.87E-05	0.258923	56.820800	
0.50000	0.291753	49.405652	0.190750
9.87E-05	0.059089	80.370754	
0.75000	0.291753	70.958180	0.190750
9.87E-05	0.096362	63.112744	
1.00000	0.291753	93.649305	0.190750
9.87E-05	0.189202	18.873782	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.030800	-93.690355	-0.077170
-0.001000	-0.197280	-64.810414	
0.25000	-0.030800	-71.243416	-0.077170
-0.001000	-0.109387	-25.097450	
0.50000	-0.030800	-50.277360	-0.077170
-0.001000	-0.039167	-24.089988	
0.75000	-0.030800	-27.278060	-0.077170
-0.001000	-0.241530	-23.484903	
1.00000	-0.030800	-9.813102	-0.077170
-0.001000	-0.477131	-62.979938	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.355929	7.901674	0.241647
8.92E-05	0.608806	15.958068	
0.25000	0.355929	23.841940	0.241647
8.92E-05	0.323726	52.869742	
0.50000	0.355929	44.691755	0.241647
8.92E-05	0.058001	74.314041	
0.75000	0.355929	64.169184	0.241647
8.92E-05	0.152700	58.873471	
1.00000	0.355929	84.675586	0.241647
8.92E-05	0.314705	19.052413	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.035415	-84.796748	-0.127255
-0.001601	-0.318867	-58.921405	
0.25000	-0.035415	-64.511022	-0.127255
-0.001601	-0.168353	-23.092347	
0.50000	-0.035415	-45.563599	-0.127255
-0.001601	-0.037160	-22.242188	
0.75000	-0.035415	-24.778694	-0.127255
-0.001601	-0.299770	-21.755663	
1.00000	-0.035415	-8.995280	-0.127255
-0.001601	-0.598246	-57.508379	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4433

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.308593	5.484664	0.270263
0.000957	0.684742	15.367580	
0.25000	0.308593	15.948868	0.270263
0.000957	0.359767	39.690888	
0.50000	0.308593	29.624474	0.270263
0.000957	0.053668	54.066676	
0.75000	0.308593	42.404589	0.270263
0.000957	0.225988	44.495418	
1.00000	0.308593	55.859864	0.270263
0.000957	0.448561	19.055550	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192032	-56.275141	-0.181288
-0.001339	-0.450528	-39.166328	
0.25000	-0.192032	-42.965262	-0.181288
-0.001339	-0.230893	-15.750535	
0.50000	-0.192032	-30.532911	-0.181288
-0.001339	-0.025797	-15.286145	
0.75000	-0.192032	-16.894896	-0.181288
-0.001339	-0.328771	-15.060358	
1.00000	-0.192032	-6.538609	-0.181288
-0.001339	-0.659578	-38.612948	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.019967	0.171642	0.121508
0.001463	0.299121	4.756184	
0.25000	0.019967	0.195938	0.121508
0.001463	0.148991	5.094440	
0.50000	0.019967	0.227716	0.121508
0.001463	0.016571	5.517920	
0.75000	0.019967	0.257403	0.121508
0.001463	0.159655	6.006353	
1.00000	0.019967	0.288658	0.121508
0.001463	0.318621	6.519464	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.268586	-0.661066	-0.128630
-1.04E-05	-0.317204	-0.559327	
0.25000	-0.268586	-0.630147	-0.128630
-1.04E-05	-0.158244	-0.595161	
0.50000	-0.268586	-0.601268	-0.128630
-1.04E-05	-0.001378	-0.684308	
0.75000	-0.268586	-0.569589	-0.128630
-1.04E-05	-0.151362	-0.774010	
1.00000	-0.268586	-0.545532	-0.128630
-1.04E-05	-0.301514	-0.918946	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.053855	10.589704	0.210435
0.001790	0.515976	19.570083	
0.25000	0.053855	32.066908	0.210435
0.001790	0.276828	69.150588	

0.50000	0.053855	60.159023	0.210435
0.001790	0.069773	97.814335	
0.75000	0.053855	86.402046	0.210435
0.001790	0.226095	76.774261	
1.00000	0.053855	114.031461	0.210435
0.001790	0.445778	22.869793	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.339050	-114.032305	-0.180308
-0.000121	-0.451623	-78.735698	
0.25000	-0.339050	-86.700219	-0.180308
-0.000121	-0.237986	-30.356017	
0.50000	-0.339050	-61.171303	-0.180308
-0.000121	-0.046652	-29.105341	
0.75000	-0.339050	-33.166645	-0.180308
-0.000121	-0.280825	-28.344594	
1.00000	-0.339050	-11.900773	-0.180308
-0.000121	-0.540849	-76.410992	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.219143	7.466112	0.266061
0.001569	0.661892	18.281373	
0.25000	0.219143	22.203750	0.266061
0.001569	0.348851	52.463920	
0.50000	0.219143	41.480534	0.266061
0.001569	0.065076	72.545271	
0.75000	0.219143	59.488473	0.266061
0.001569	0.226110	58.658612	
1.00000	0.219143	78.447752	0.266061
0.001569	0.449189	22.304110	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.296923	-78.814907	-0.182207
-0.000672	-0.455671	-54.576330	
0.25000	-0.296923	-60.059654	-0.182207
-0.000672	-0.236746	-21.477531	
0.50000	-0.296923	-42.541735	-0.182207
-0.000672	-0.033669	-20.718620	
0.75000	-0.296923	-23.324964	-0.182207
-0.000672	-0.336156	-20.295909	
1.00000	-0.296923	-8.732342	-0.182207
-0.000672	-0.664876	-53.378340	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.304282	6.232828	0.283234
0.001307	0.708102	16.629049	
0.25000	0.304282	18.423085	0.283234
0.001307	0.371194	45.011131	
0.50000	0.304282	34.367903	0.283234
0.001307	0.059480	61.750837	
0.75000	0.304282	49.263193	0.283234
0.001307	0.246393	50.435786	
1.00000	0.304282	64.945386	0.283234
0.001307	0.489012	20.557816	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.253367	-65.370742	-0.197724
-0.001162	-0.491816	-45.448444	
0.25000	-0.253367	-49.857310	-0.197724
-0.001162	-0.252613	-18.123678	
0.50000	-0.253367	-35.367339	-0.197724
-0.001162	-0.029281	-17.548893	
0.75000	-0.253367	-19.472162	-0.197724
-0.001162	-0.351681	-17.252198	
1.00000	-0.253367	-7.401855	-0.197724
-0.001162	-0.701593	-44.669326	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070612	0.096066	0.142963
3.56E-07	0.355820	1.764160	
0.25000	0.070612	0.104356	0.142963
3.56E-07	0.178784	1.994958	
0.50000	0.070612	0.123797	0.142963
3.56E-07	0.006144	2.217271	
0.75000	0.070612	0.144907	0.142963
3.56E-07	0.125018	2.419061	
1.00000	0.070612	0.163408	0.142963
3.56E-07	0.247703	2.609547	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.032305	-0.269964	-0.099322
-0.000895	-0.243309	-0.630248	
0.25000	-0.032305	-0.251306	-0.099322
-0.000895	-0.172633	-0.702569	
0.50000	-0.032305	-0.230157	-0.099322
-0.000895	-0.002949	-0.802381	
0.75000	-0.032305	-0.210787	-0.099322
-0.000895	-0.174273	-0.902155	
1.00000	-0.032305	-0.203158	-0.099322
-0.000895	-0.351188	-1.029837	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.236625	0.418813	0.259279
2.25E-06	0.649476	3.998972	
0.25000	0.236625	0.659214	0.259279
2.25E-06	0.329241	5.138986	
0.50000	0.236625	1.222997	0.259279
2.25E-06	0.017376	5.998257	
0.75000	0.236625	1.835207	0.259279
2.25E-06	0.206075	6.111846	
1.00000	0.236625	2.371708	0.259279
2.25E-06	0.408002	5.914098	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.029382	-2.675548	-0.163870
-0.001593	-0.402271	-2.346998	
0.25000	-0.029382	-2.134471	-0.163870
-0.001593	-0.199728	-1.715697	
0.50000	-0.029382	-1.521140	-0.163870
-0.001593	-0.005425	-1.886382	
0.75000	-0.029382	-0.959433	-0.163870
-0.001593	-0.311558	-2.059307	
1.00000	-0.029382	-0.738167	-0.163870
-0.001593	-0.631820	-3.041450	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.326837	0.491258	0.336161
8.36E-06	0.847795	6.823352	
0.25000	0.326837	0.498719	0.336161
8.36E-06	0.432364	7.357946	
0.50000	0.326837	0.516215	0.336161
8.36E-06	0.028291	8.058537	
0.75000	0.326837	0.535215	0.336161
8.36E-06	0.228143	8.912099	
1.00000	0.326837	0.551865	0.336161
8.36E-06	0.455671	9.770152	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.036267	-0.993853	-0.183965
-0.001760	-0.453274	-1.500258	
0.25000	-0.036267	-0.977061	-0.183965
-0.001760	-0.225601	-1.729591	
0.50000	-0.036267	-0.958027	-0.183965
-0.001760	-0.005844	-1.985297	
0.75000	-0.036267	-0.940594	-0.183965
-0.001760	-0.397239	-2.240046	
1.00000	-0.036267	-0.933728	-0.183965
-0.001760	-0.812555	-2.519927	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.292405	5.886910	0.408906
0.000520	1.028759	12.226978	
0.25000	0.292405	11.687606	0.408906
0.000520	0.533153	30.775254	
0.50000	0.292405	25.291298	0.408906
0.000520	0.053353	41.859718	
0.75000	0.292405	40.063006	0.408906
0.000520	0.302642	33.122461	
1.00000	0.292405	53.008900	0.408906
0.000520	0.591339	16.723470	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126629	-53.687425	-0.242396
-0.001510	-0.611341	-32.858357	
0.25000	-0.126629	-40.631627	-0.242396
-0.001510	-0.311050	-13.502353	
0.50000	-0.126629	-25.832364	-0.242396
-0.001510	-0.020954	-13.513315	
0.75000	-0.126629	-12.278754	-0.242396
-0.001510	-0.493276	-13.577141	
1.00000	-0.126629	-6.939754	-0.242396
-0.001510	-0.996923	-33.166876	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.198204	0.138121	0.128228
2.95E-06	0.326027	2.803078	
0.25000	0.198204	0.146411	0.128228
2.95E-06	0.167586	3.070422	
0.50000	0.198204	0.165852	0.128228
2.95E-06	0.013505	3.360640	
0.75000	0.198204	0.186962	0.128228
2.95E-06	0.078716	3.696233	
1.00000	0.198204	0.205462	0.128228
2.95E-06	0.156579	4.053048	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.010192	-0.470509	-0.063130
-0.000698	-0.155364	-0.595222	
0.25000	-0.010192	-0.451851	-0.063130
-0.000698	-0.077447	-0.664066	
0.50000	-0.010192	-0.430702	-0.063130
-0.000698	0.002030	-0.760466	
0.75000	-0.010192	-0.411333	-0.063130
-0.000698	-0.149347	-0.856955	
1.00000	-0.010192	-0.403703	-0.063130
-0.000698	-0.307784	-0.981345	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.271344	8.368293	0.255774
7.24E-05	0.646160	11.939881	
0.25000	0.271344	17.196791	0.255774
7.24E-05	0.344889	39.848511	
0.50000	0.271344	37.901231	0.255774
7.24E-05	0.057026	56.118536	
0.75000	0.271344	60.384123	0.255774
7.24E-05	0.152084	41.922575	
1.00000	0.271344	80.086650	0.255774
7.24E-05	0.283919	16.061441	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.034781	-80.744475	-0.120216
-0.000873	-0.318252	-48.564019	
0.25000	-0.034781	-60.873914	-0.120216
-0.000873	-0.169188	-18.884813	
0.50000	-0.034781	-38.349848	-0.120216
-0.000873	-0.026342	-18.681907	
0.75000	-0.034781	-17.721632	-0.120216
-0.000873	-0.312786	-18.560522	
1.00000	-0.034781	-9.595823	-0.120216
-0.000873	-0.626588	-48.156857	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.334726	7.632681	0.345932
6.55E-05	0.870709	11.161940	
0.25000	0.334726	15.623093	0.345932
6.55E-05	0.456593	37.738569	
0.50000	0.334726	34.362069	0.345932
6.55E-05	0.057900	52.658490	
0.75000	0.334726	54.710670	0.345932
6.55E-05	0.231798	39.993122	
1.00000	0.334726	72.542844	0.345932
6.55E-05	0.443540	16.771101	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.042462	-73.240614	-0.183609
-0.001480	-0.470898	-44.414523	
0.25000	-0.042462	-55.256148	-0.183609
-0.001480	-0.243785	-17.631917	
0.50000	-0.042462	-34.870281	-0.183609
-0.001480	-0.026074	-17.527184	
0.75000	-0.042462	-16.200293	-0.183609
-0.001480	-0.421205	-17.496169	
1.00000	-0.042462	-8.845664	-0.183609
-0.001480	-0.846591	-44.361864	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.296292	5.022357	0.431731
0.000892	1.088804	12.233133	
0.25000	0.296292	9.840727	0.431731
0.000892	0.563361	27.791373	
0.50000	0.296292	21.140686	0.431731
0.000892	0.053613	37.217860	
0.75000	0.296292	33.411279	0.431731
0.000892	0.325356	30.206531	
1.00000	0.296292	44.164418	0.431731
0.000892	0.639705	16.832447	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.182714	-44.862048	-0.261239
-0.001239	-0.656269	-27.569363	
0.25000	-0.182714	-34.017200	-0.261239
-0.001239	-0.332530	-11.543035	
0.50000	-0.182714	-21.724135	-0.261239
-0.001239	-0.017956	-11.603880	
0.75000	-0.182714	-10.465778	-0.261239
-0.001239	-0.517554	-11.708994	
1.00000	-0.182714	-6.030918	-0.261239
-0.001239	-1.048956	-28.035214	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.025340	0.259262	0.242064
0.001460	0.606208	4.389269	
0.25000	0.025340	0.267552	0.242064
0.001460	0.307283	4.749185	
0.50000	0.025340	0.286992	0.242064
0.001460	0.017360	5.193318	
0.75000	0.025340	0.308103	0.242064
0.001460	0.229175	5.670474	
1.00000	0.025340	0.326603	0.242064
0.001460	0.459919	6.168002	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.250349	-0.613354	-0.185994
-8.55E-06	-0.459482	-0.655876	
0.25000	-0.250349	-0.594696	-0.185994
-8.55E-06	-0.228740	-0.748967	
0.50000	-0.250349	-0.575547	-0.185994
-8.55E-06	-0.001820	-0.869530	
0.75000	-0.250349	-0.554178	-0.185994
-8.55E-06	-0.290594	-0.990399	
1.00000	-0.250349	-0.546548	-0.185994
-8.55E-06	-0.589577	-1.139494	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.063244	11.761487	0.379648
0.001731	0.947310	15.472657	
0.25000	0.063244	24.295466	0.379648
0.001731	0.604415	54.965929	
0.50000	0.063244	53.689940	0.379648
0.001731	0.071588	77.890874	
0.75000	0.063244	85.609313	0.379648
0.001731	0.338049	57.525512	
1.00000	0.063244	113.581351	0.379648
0.001731	0.648304	20.584897	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.311998	-114.382588	-0.269708
-8.41E-05	-0.689399	-68.508692	
0.25000	-0.311998	-86.177989	-0.269708
-8.41E-05	-0.360668	-26.295794	
0.50000	-0.311998	-54.194160	-0.269708
-8.41E-05	-0.035582	-25.931065	
0.75000	-0.311998	-24.907904	-0.269708
-8.41E-05	-0.475228	-25.682514	
1.00000	-0.311998	-13.371545	-0.269708
-8.41E-05	-0.940789	-67.628419	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.211805	8.733612	0.437678
0.001529	1.099755	15.261876	
0.25000	0.211805	17.768522	0.437678
0.001529	0.575326	44.049019	
0.50000	0.211805	38.957039	0.437678
0.001529	0.069366	60.992852	
0.75000	0.211805	61.965587	0.437678
0.001529	0.343558	46.769751	
1.00000	0.211805	82.128764	0.437678
0.001529	0.667939	20.616990	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.277295	-82.972663	-0.275715
-0.000539	-0.702249	-50.039522	
0.25000	-0.277295	-62.637523	-0.275715
-0.000539	-0.360158	-19.741178	
0.50000	-0.277295	-39.586838	-0.275715
-0.000539	-0.027618	-19.608264	
0.75000	-0.277295	-18.476329	-0.275715
-0.000539	-0.533531	-19.559010	
1.00000	-0.277295	-10.160536	-0.275715
-0.000539	-1.071831	-49.922166	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.289039	7.323630	0.462723
0.001274	1.162815	14.161940	
0.25000	0.289039	14.821636	0.462723
0.001274	0.604548	38.217621	
0.50000	0.289039	32.405830	0.462723
0.001274	0.064752	52.466759	
0.75000	0.289039	51.500455	0.462723
0.001274	0.360982	40.875292	
1.00000	0.289039	68.237328	0.462723
0.001274	0.704787	19.380305	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.238970	-69.051486	-0.289207
-0.001047	-0.730875	-41.924066	
0.25000	-0.238970	-52.181343	-0.289207
-0.001047	-0.372344	-16.848293	
0.50000	-0.238970	-33.051748	-0.289207
-0.001047	-0.024698	-16.806314	
0.75000	-0.238970	-15.532292	-0.289207
-0.001047	-0.561222	-16.833833	
1.00000	-0.238970	-8.631077	-0.289207
-0.001047	-1.130941	-42.100431	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.355929	10.589704	0.283234
0.001790	0.708102	19.570083	
0.25000	0.355929	32.066908	0.283234
0.001790	0.371194	69.150588	
0.50000	0.355929	60.159023	0.283234
0.001790	0.069773	97.814335	
0.75000	0.355929	86.402046	0.283234
0.001790	0.246393	76.774261	
1.00000	0.355929	114.031461	0.283234
0.001790	0.489012	22.869793	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.339050	-114.032305	-0.197724
-0.001849	-0.491816	-78.735698	
0.25000	-0.339050	-86.700219	-0.197724
-0.001849	-0.252613	-30.356017	
0.50000	-0.339050	-61.171303	-0.197724
-0.001849	-0.046652	-29.105341	
0.75000	-0.339050	-33.166645	-0.197724
-0.001849	-0.351681	-28.344594	
1.00000	-0.339050	-11.900773	-0.197724
-0.001849	-0.701593	-76.410992	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.334726	11.761487	0.462723
0.001731	1.162815	15.472657	
0.25000	0.334726	24.295466	0.462723
0.001731	0.604548	54.965929	
0.50000	0.334726	53.689940	0.462723
0.001731	0.071588	77.890874	
0.75000	0.334726	85.609313	0.462723
0.001731	0.360982	57.525512	
1.00000	0.334726	113.581351	0.462723
0.001731	0.704787	20.616990	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.311998	-114.382588	-0.289207
-0.001760	-0.730875	-68.508692	
0.25000	-0.311998	-86.171989	-0.289207
-0.001760	-0.372344	-26.295794	
0.50000	-0.311998	-54.194160	-0.289207
-0.001760	-0.035582	-25.931065	
0.75000	-0.311998	-24.907904	-0.289207
-0.001760	-0.561222	-25.682514	
1.00000	-0.311998	-13.371545	-0.289207
-0.001760	-1.130941	-67.628419	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.355929	11.761487	0.462723
0.001790	1.162815	19.570083	
0.25000	0.355929	32.066908	0.462723
0.001790	0.604548	69.150588	
0.50000	0.355929	60.159023	0.462723
0.001790	0.071588	97.814335	
0.75000	0.355929	86.402046	0.462723
0.001790	0.360982	76.774261	
1.00000	0.355929	114.031461	0.462723
0.001790	0.704787	22.869793	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.339050	-114.382588	-0.289207
-0.001849	-0.730875	-78.735698	
0.25000	-0.339050	-86.700219	-0.289207
-0.001849	-0.372344	-30.356017	
0.50000	-0.339050	-61.171303	-0.289207
-0.001849	-0.046652	-29.105341	
0.75000	-0.339050	-33.166645	-0.289207
-0.001849	-0.561222	-28.344594	
1.00000	-0.339050	-13.371545	-0.289207
-0.001849	-1.130941	-76.410992	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.355929	11.761487	0.462723
0.001790	1.162815	19.570083	
0.25000	0.355929	32.066908	0.462723
0.001790	0.604548	69.150588	
0.50000	0.355929	60.159023	0.462723
0.001790	0.071588	97.814335	
0.75000	0.355929	86.402046	0.462723
0.001790	0.360982	76.774261	
1.00000	0.355929	114.031461	0.462723
0.001790	0.704787	22.869793	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.339050	-114.382588	-0.289207
-0.001849	-0.730875	-78.735698	
0.25000	-0.339050	-86.700219	-0.289207
-0.001849	-0.372344	-30.356017	
0.50000	-0.339050	-61.171303	-0.289207
-0.001849	-0.046652	-29.105341	
0.75000	-0.339050	-33.166645	-0.289207
-0.001849	-0.561222	-28.344594	
1.00000	-0.339050	-13.371545	-0.289207
-0.001849	-1.130941	-76.410992	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 431 ========== LENGTH = 4.943166

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.114363	0.097762	0.067648
3.81E-07	0.175948	2.274503	
0.25000	0.114363	0.121873	0.067648
3.81E-07	0.093000	2.556059	
0.50000	0.114363	0.153645	0.067648
3.81E-07	0.010212	2.807419	
0.75000	0.114363	0.183407	0.067648
3.81E-07	0.101224	3.015272	
1.00000	0.114363	0.214623	0.067648
3.81E-07	0.201410	3.190153	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.026481	-0.333408	-0.081064
-0.000554	-0.199299	-0.833415	
0.25000	-0.026481	-0.302230	-0.081064
-0.000554	-0.099117	-0.879989	
0.50000	-0.026481	-0.272459	-0.081064
-0.000554	-0.002951	-0.980550	
0.75000	-0.026481	-0.240695	-0.081064
-0.000554	-0.085171	-1.082121	
1.00000	-0.026481	-0.216542	-0.081064
-0.000554	-0.168767	-1.237674	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.247692	0.538723	0.123403
3.81E-07	0.325628	5.514214	
0.25000	0.247692	1.213845	0.123403
3.81E-07	0.173399	7.579423	
0.50000	0.247692	2.103458	0.123403
3.81E-07	0.023365	8.636367	
0.75000	0.247692	2.936782	0.123403
3.81E-07	0.165195	8.380726	
1.00000	0.247692	3.810828	0.123403
3.81E-07	0.328539	7.176286	

COMB DB-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.040193	-4.093480	-0.132228
-0.000990		-0.325052	-3.734304	
0.25000		-0.040193	-3.220511	-0.132228
-0.000990		-0.161913	-2.386194	
0.50000		-0.040193	-2.386902	-0.132228
-0.000990		-0.006500	-2.549704	
0.75000		-0.040193	-1.497517	-0.132228
-0.000990		-0.146782	-2.741505	
1.00000		-0.040193	-0.821225	-0.132228
-0.000990		-0.298139	-4.444823	

COMB DB-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.323362	0.456633	0.171169
0.000178		0.451986	9.561092	
0.25000		0.323362	0.478334	0.171169
0.000178		0.240843	9.881032	
0.50000		0.323362	0.506928	0.171169
0.000178		0.036262	10.352090	
0.75000		0.323362	0.533714	0.171169
0.000178		0.171215	11.022644	
1.00000		0.323362	0.561808	0.171169
0.000178		0.340486	11.842480	

COMB DB-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.040580	-0.982029	-0.136920
-0.001172		-0.336346	-1.942173	
0.25000		-0.040580	-0.953970	-0.136920
-0.001172		-0.167088	-2.142497	
0.50000		-0.040580	-0.927175	-0.136920
-0.001172		-0.007284	-2.391409	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000		-0.040580	-0.898588	-0.136920
-0.001172		-0.195971	-2.641230	
1.00000		-0.040580	-0.876850	-0.136920
-0.001172		-0.406106	-2.939635	

COMB DB-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.283745	6.770220	0.208319
0.000516		0.546735	19.211865	
0.25000		0.283745	19.555356	0.208319
0.000516		0.293604	52.418952	
0.50000		0.283745	36.402388	0.208319
0.000516		0.068946	65.864321	
0.75000		0.283745	52.183472	0.208319
0.000516		0.213324	53.614753	
1.00000		0.283745	68.735716	0.208319
0.000516		0.423835	21.598877	

COMB DB-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.121004	-69.217140	-0.171417
-0.001035		-0.423515	-47.026160	
0.25000		-0.121004	-52.685286	-0.171417
-0.001035		-0.216712	-18.309210	
0.50000		-0.121004	-36.898813	-0.171417
-0.001035		-0.031019	-18.218548	
0.75000		-0.121004	-20.056094	-0.171417
-0.001035		-0.255904	-18.663666	
1.00000		-0.121004	-7.248812	-0.171417
-0.001035		-0.512174	-47.733133	

COMB DB-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.155878	0.165566	0.067003
4.19E-06		0.177686	4.070376	
0.25000		0.155878	0.189678	0.067003
4.19E-06		0.095429	4.230544	
0.50000		0.155878	0.221450	0.067003
4.19E-06		0.016030	4.437454	
0.75000		0.155878	0.251211	0.067003
4.19E-06		0.060008	4.671944	
1.00000		0.155878	0.282427	0.067003
4.19E-06		0.119344	4.956205	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.012675	-0.493772	-0.048008
-0.000470		-0.117908	-0.806787	
0.25000		-0.012675	-0.462595	-0.048008
-0.000470		-0.058588	-0.848092	
0.50000		-0.012675	-0.432623	-0.048008
-0.000470		-0.002851	-0.943383	
0.75000		-0.012675	-0.401059	-0.048008
-0.000470		-0.071096	-1.039685	
1.00000		-0.012675	-0.376906	-0.048008
-0.000470		-0.153609	-1.189970	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.222403	8.840603	0.145295
0.000192		0.388937	18.870067	
0.25000		0.222403	26.345570	0.145295
0.000192		0.215269	64.083595	
0.50000		0.222403	49.411944	0.145295
0.000192		0.067460	82.173778	
0.75000		0.222403	71.018860	0.145295
0.000192		0.095683	64.880885	
1.00000		0.222403	93.681621	0.145295
0.000192		0.187597	20.352852	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.024376	-94.043280	-0.075871
-0.000638		-0.187456	-62.953222	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000		-0.024376	-71.408435	-0.075871
-0.000638		-0.100601	-23.442785	
0.50000		-0.024376	-49.794142	-0.075871
-0.000638		-0.036890	-23.126471	
0.75000		-0.024376	-26.733673	-0.075871
-0.000638		-0.177308	-23.543729	
1.00000		-0.024376	-9.198383	-0.075871
-0.000638		-0.356391	-63.152458	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.303390	8.045837	0.184402
0.000174		0.491322	19.023936	
0.25000		0.303390	23.865409	0.184402
0.000174		0.268764	60.057410	
0.50000		0.303390	44.710930	0.184402
0.000174		0.069656	76.580952	
0.75000		0.303390	64.237510	0.184402
0.000174		0.163200	61.133985	
1.00000		0.303390	84.718278	0.184402
0.000174		0.322223	21.065108	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.039116	-85.147382	-0.130014
-0.001007		-0.320434	-57.487367	
0.25000		-0.039116	-64.691843	-0.130014
-0.001007		-0.165980	-21.861247	
0.50000		-0.039116	-45.158595	-0.130014
-0.001007		-0.035651	-21.655603	
0.75000		-0.039116	-24.318410	-0.130014
-0.001007		-0.224850	-22.112901	
1.00000		-0.039116	-8.471436	-0.130014
-0.001007		-0.449169	-57.988275	

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.268114	5.647871	0.220258
0.000772		0.573151	19.020317	
0.25000		0.268114	16.027882	0.220258
0.000772		0.304522	45.989496	
0.50000		0.268114	29.705670	0.220258
0.000772		0.067421	56.985966	
0.75000		0.268114	42.518036	0.220258
0.000772		0.225662	47.235273	
1.00000		0.268114	55.956491	0.220258
0.000772		0.449757	21.504527	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.177668	-56.483505	-0.182172
-0.000843		-0.450754	-38.581039	
0.25000		-0.177668	-43.061603	-0.182172
-0.000843		-0.229673	-15.319226	
0.50000		-0.177668	-30.244863	-0.182172
-0.000843		-0.026761	-15.298557	
0.75000		-0.177668	-16.570577	-0.182172
-0.000843		-0.266322	-15.712878	
1.00000		-0.177668	-6.172585	-0.182172
-0.000843		-0.535543	-39.366769	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.025172	0.246451	0.121560
0.000964		0.301667	6.492899	
0.25000		0.025172	0.270563	0.121560
0.000964		0.151464	6.646834	
0.50000		0.025172	0.302335	0.121560
0.000964		0.021925	6.924322	
0.75000		0.025172	0.332096	0.121560
0.000964		0.155039	7.290455	
1.00000		0.025172	0.363312	0.121560
0.000964		0.312153	7.714500	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.246438	-0.645356	-0.127121
-6.54E-06		-0.316228	-0.891818	
0.25000		-0.246438	-0.614179	-0.127121
-6.54E-06		-0.159137	-0.944271	
0.50000		-0.246438	-0.584407	-0.127121
-6.54E-06		-0.003231	-1.05071	
0.75000		-0.246438	-0.553710	-0.127121
-6.54E-06		-0.149024	-1.158160	
1.00000		-0.246438	-0.528490	-0.127121
-6.54E-06		-0.299268	-1.319593	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.060028	10.754101	0.197046
0.001166		0.503729	22.859232	
0.25000		0.060028	32.068689	0.197046
0.001166		0.266986	77.934703	
0.50000		0.060028	60.155018	0.197046
0.001166		0.079112	99.924141	
0.75000		0.060028	86.464265	0.197046
0.001166		0.215091	78.810687	
1.00000		0.060028	114.059143	0.197046
0.001166		0.429776	24.511029	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.291946	-114.465390	-0.175576
-8.14E-05		-0.438133	-76.357392	
0.25000		-0.291946	-86.904504	-0.175576
-8.14E-05		-0.229591	-28.210796	
0.50000		-0.291946	-60.586274	-0.175576
-8.14E-05		-0.043822	-27.784176	
0.75000		-0.291946	-32.507135	-0.175576
-8.14E-05		-0.258986	-28.252775	
1.00000		-0.291946	-11.155626	-0.175576
-8.14E-05		-0.502497	-76.442117	

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.180867	7.654516	0.232842
0.001160		0.509419	22.282778	
0.25000		0.180867	22.280568	0.232842
0.001160		0.316607	60.111341	
0.50000		0.180867	41.553381	0.232842
0.001160		0.077351	75.429284	
0.75000		0.180867	59.606763	0.232842
0.001160		0.220974	61.363563	
1.00000		0.180867	78.542342	0.232842
0.001160		0.441051	24.631094	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.265199	-79.086389	-0.179343
-0.000430		-0.445441	-53.327853	
0.25000		-0.265199	-60.174134	-0.179343
-0.000430		-0.229567	-20.411866	
0.50000		-0.265199	-42.114588	-0.179343
-0.000430		-0.033701	-20.244027	
0.75000		-0.265199	-22.846708	-0.179343
-0.000430		-0.286721	-20.689114	
1.00000		-0.265199	-8.195322	-0.179343
-0.000430		-0.574150	-53.880133	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.251753	6.411011	0.239407
0.000966		0.619635	20.519571	
0.25000		0.251753	18.508969	0.239407
0.000966		0.327878	51.927179	
0.50000		0.251753	34.450502	0.239407
0.000966		0.072919	64.724497	
0.75000		0.251753	49.383381	0.239407
0.000966		0.244202	53.252035	
1.00000		0.251753	65.045971	0.239407
0.000966		0.487056	23.076153	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.233775	-65.611913	-0.197534
-0.000728		-0.489369	-44.628671	
0.25000		-0.233775	-49.969616	-0.197534
-0.000728		-0.250011	-17.471665	
0.50000		-0.233775	-35.031639	-0.197534
-0.000728		-0.029892	-17.402334	
0.75000		-0.233775	-19.094186	-0.197534
-0.000728		-0.290723	-17.839986	
1.00000		-0.233775	-6.975273	-0.197534
-0.000728		-0.583645	-45.363479	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.132092	0.125897	0.130416
2.11E-07		0.330501	2.597105	
0.25000		0.132092	0.134059	0.130416
2.11E-07		0.169631	2.901108	
0.50000		0.132092	0.153487	0.130416
2.11E-07		0.012268	3.198000	
0.75000		0.132092	0.174637	0.130416
2.11E-07		0.129323	3.470811	
1.00000		0.132092	0.193188	0.130416
2.11E-07		0.257766	3.733501	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.033179	-0.338356	-0.104001
-0.000532		-0.256275	-1.044498	
0.25000		-0.033179	-0.319789	-0.104001
-0.000532		-0.127842	-1.145266	
0.50000		-0.033179	-0.298633	-0.104001
-0.000532		-0.003638	-1.277384	
0.75000		-0.033179	-0.279211	-0.104001
-0.000532		-0.156075	-1.409635	
1.00000		-0.033179	-0.271098	-0.104001
-0.000532		-0.317916	-1.569936	

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.260626	0.517275	0.221403
2.11E-07		0.567031	5.889353	
0.25000		0.260626	0.753992	0.221403
2.11E-07		0.297761	7.038882	
0.50000		0.260626	1.317406	0.221403
2.11E-07		0.027242	7.906338	
0.75000		0.260626	1.930730	0.221403
2.11E-07		0.211586	8.024267	
1.00000		0.260626	2.468718	0.221403
2.11E-07		0.421459	7.856648	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.050798	-2.736843	-0.170256
-0.000914		-0.419519	-3.062155	
0.25000		-0.050798	-2.196402	-0.170256
-0.000914		-0.210273	-2.486119	
0.50000		-0.050798	-1.584890	-0.170256
-0.000914		-0.007080	-2.722078	
0.75000		-0.050798	-1.021653	-0.170256
-0.000914		-0.258550	-2.961150	
1.00000		-0.050798	-0.783677	-0.170256
-0.000914		-0.532317	-4.012975	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.332808	0.576393	0.273986
0.000197		0.709632	9.742693	
0.25000		0.332808	0.583739	0.273986
0.000197		0.370921	10.230832	
0.50000		0.332808	0.601225	0.273986
0.000197		0.042311	10.839392	
0.75000		0.332808	0.620253	0.273986
0.000197		0.227403	11.634752	
1.00000		0.332808	0.636955	0.273986
0.000197		0.456491	12.466744	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.054413	-1.002371	-0.185392
-0.001033		-0.459536	-2.530449	
0.25000		-0.054413	-0.985661	-0.185392
-0.001033		-0.230292	-2.833291	
0.50000		-0.054413	-0.966621	-0.185392
-0.001033		-0.009007	-3.161380	
0.75000		-0.054413	-0.949141	-0.185392
-0.001033		-0.310199	-3.489579	
1.00000		-0.054413	-0.941839	-0.185392
-0.001033		-0.648710	-3.842942	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.306104	6.259735	0.338703
0.000477		0.874347	16.689110	
0.25000		0.306104	11.971561	0.338703
0.000477		0.463769	34.611701	
0.50000		0.306104	25.566355	0.338703
0.000477		0.069454	45.247251	
0.75000		0.306104	40.365441	0.338703
0.000477		0.295925	36.162158	
1.00000		0.306104	53.346714	0.338703
0.000477		0.579180	19.584888	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.129622	-53.715937	-0.236761
-0.000921		-0.599867	-33.143779	
0.25000		-0.129622	-40.723715	-0.236761
-0.000921		-0.306746	-13.868942	
0.50000		-0.129622	-25.920101	-0.236761
-0.000921		-0.022713	-14.194449	
0.75000		-0.129622	-12.329583	-0.236761
-0.000921		-0.395622	-14.589704	
1.00000		-0.129622	-6.652536	-0.236761
-0.000921		-0.811965	-34.593466	

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.144783	0.230182	0.097016
2.11E-06		0.253722	4.040000	
0.25000		0.144783	0.238345	0.097016
2.11E-06		0.133992	4.255448	
0.50000		0.144783	0.257773	0.097016
2.11E-06		0.018158	4.478094	
0.75000		0.144783	0.278922	0.097016
2.11E-06		0.078037	4.717272	
1.00000		0.144783	0.297473	0.097016
2.11E-06		0.156464	5.000927	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.016004	-0.446512	-0.063544
-0.000403		-0.157704	-0.983244	
0.25000		-0.016004	-0.427945	-0.063544
-0.000403		-0.079286	-1.078312	
0.50000		-0.016004	-0.406789	-0.063544
-0.000403		-0.003431	-1.201104	
0.75000		-0.016004	-0.387367	-0.063544
-0.000403		-0.105824	-1.323940	
1.00000		-0.016004	-0.379254	-0.063544
-0.000403		-0.225650	-1.474901	

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.217834	8.878452	0.197293
0.000197		0.517920	18.043250	
0.25000		0.217834	17.571692	0.197293
0.000197		0.285770	43.001810	
0.50000		0.217834	38.262589	0.197293
0.000197		0.067468	58.672454	
0.75000		0.217834	60.786386	0.197293
0.000197		0.144854	43.953826	
1.00000		0.217834	80.543521	0.197293
0.000197		0.266669	17.801630	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.032502	-80.754269	-0.110649
-0.000519		-0.293393	-48.130368	
0.25000		-0.032502	-60.980468	-0.110649
-0.000519		-0.156381	-18.486102	
0.50000		-0.032502	-38.449781	-0.110649
-0.000519		-0.026214	-18.671707	
0.75000		-0.032502	-17.765391	-0.110649
-0.000519		-0.230547	-18.963931	
1.00000		-0.032502	-9.125084	-0.110649
-0.000519		-0.471037	-49.102143	

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.309096	8.113332	0.277939
0.000178		0.722271	16.740999	
0.25000		0.309096	15.981327	0.277939
0.000178		0.389500	41.370126	
0.50000		0.309096	34.708046	0.277939
0.000178		0.071649	55.781022	
0.75000		0.309096	55.093668	0.277939
0.000178		0.228496	42.678590	
1.00000		0.309096	72.975267	0.277939
0.000178		0.435522	19.232263	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.052255	-73.283894	-0.178477
-0.000878		-0.458557	-44.348799	
0.25000		-0.052255	-55.387212	-0.178477
-0.000878		-0.237802	-17.622817	
0.50000		-0.052255	-34.995353	-0.178477
-0.000878		-0.026552	-17.894989	
0.75000		-0.052255	-16.274524	-0.178477
-0.000878		-0.325987	-18.263648	
1.00000		-0.052255	-8.454437	-0.178477
-0.000878		-0.665466	-45.644605	

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.281907	5.340365	0.357128
0.000692		0.921531	16.774667	
0.25000		0.281907	10.084815	0.357128
0.000692		0.486810	31.736505	
0.50000		0.281907	21.377382	0.357128
0.000692		0.069297	40.713301	
0.75000		0.281907	33.670302	0.357128
0.000692		0.315330	33.348280	
1.00000		0.281907	44.453243	0.357128
0.000692		0.622060	19.775962	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.183447	-44.848532	-0.254400
-0.000736		-0.642859	-27.998655	
0.25000		-0.183447	-34.056493	-0.254400
-0.000736		-0.327599	-12.052097	
0.50000		-0.183447	-21.759815	-0.254400
-0.000736		-0.026063	-12.385203	
0.75000		-0.183447	-10.470799	-0.254400
-0.000736		-0.413353	-12.776459	
1.00000		-0.183447	-5.755139	-0.254400
-0.000736		-0.851976	-29.457017	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.031518	0.297479	0.215226
0.000882		0.547449	6.102486	
0.25000		0.031518	0.305641	0.215226
0.000882		0.281435	6.360508	
0.50000		0.031518	0.325059	0.215226
0.000882		0.024034	6.697075	
0.75000		0.031518	0.346218	0.215226
0.000882		0.218562	7.079080	
1.00000		0.031518	0.364770	0.215226
0.000882		0.443348	7.481005	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.247267	-0.580460	-0.181058
-6.11E-06		-0.452030	-1.091644	
0.25000		-0.247267	-0.561913	-0.181058
-6.11E-06		-0.227257	-1.209128	
0.50000		-0.247267	-0.540758	-0.181058
-6.11E-06		-0.003927	-1.353083	
0.75000		-0.247267	-0.521336	-0.181058
-6.11E-06		-0.250045	-1.497281	
1.00000		-0.247267	-0.513223	-0.181058
-6.11E-06		-0.516194	-1.669451	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.073955	12.442532	0.331262
0.000992		0.848530	20.505243	
0.25000		0.073955	24.784484	0.331262
0.000992		0.455528	58.690547	
0.50000		0.073955	54.159730	0.331262
0.000992		0.083405	80.329558	
0.75000		0.073955	86.137177	0.331262
0.000992		0.320704	59.786399	
1.00000		0.073955	114.186743	0.331262
0.000992		0.613476	22.483201	

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.290712 -114.427952 -0.252946
-5.92E-05 -0.656364 -67.543093
0.25000 -0.290712 -86.354725 -0.252946
-5.92E-05 -0.342284 -25.362547
0.50000 -0.290712 -54.367495 -0.252946
-5.92E-05 -0.034467 -25.530349
0.75000 -0.290712 -25.001489 -0.252946
-5.92E-05 -0.403396 -25.850268
1.00000 -0.290712 -12.734686 -0.252946
-5.92E-05 -0.808291 -68.541666

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.183171 9.263360 0.366611
0.001014 0.945578 20.537080
0.25000 0.183171 18.159850 0.366611
0.001014 0.504393 48.300504
0.50000 0.183171 39.334507 0.366611
0.001014 0.084312 64.568179
0.75000 0.183171 62.384916 0.366611
0.001014 0.326309 49.756521
1.00000 0.183171 9.603979 0.366611
0.001014 0.635138 23.262922

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.265420 -82.961656 -0.261218
-0.000328 -0.669933 -49.846630
0.25000 -0.265420 -62.725539 -0.261218
-0.000328 -0.345852 -19.595134
0.50000 -0.265420 -39.668077 -0.261218
-0.000328 -0.029071 -19.868663
0.75000 -0.265420 -18.500981 -0.261218
-0.000328 -0.430679 -20.252399
1.00000 -0.265420 -9.657761 -0.261218
-0.000328 -0.880539 -51.179020

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.256587 7.791549 0.386171
0.000844 0.995151 19.303784
0.25000 0.256587 15.174681 0.386171
0.000844 0.527869 42.499617
0.50000 0.256587 32.747373 0.386171
0.000844 0.080546 56.160589
0.75000 0.256587 51.876738 0.386171
0.000844 0.348586 44.083688
1.00000 0.256587 68.656390 0.386171
0.000844 0.682276 22.310403
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4448

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.239279 -69.057092 -0.279478
-0.000608 -0.710753 -42.045042
0.25000 -0.239279 -52.263287 -0.279478
-0.000608 -0.364343 -17.050966
0.50000 -0.239279 -33.128069 -0.279478
-0.000608 -0.026568 -17.370253
0.75000 -0.239279 -15.560905 -0.279478
-0.000608 -0.451721 -17.827881
1.00000 -0.239279 -8.227728 -0.279478
-0.000608 -0.925305 -43.590452

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.323362 10.754101 0.239407
0.001166 0.619635 22.859232
0.25000 0.323362 32.068689 0.239407
0.001166 0.327878 77.934703
0.50000 0.323362 60.155018 0.239407
0.001166 0.079112 99.924141
0.75000 0.323362 86.464265 0.239407
0.001166 0.244202 78.810687
1.00000 0.323362 114.059143 0.239407
0.001166 0.487056 24.631094

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.291946 -114.465390 -0.197534
-0.001172 -0.489369 -76.357392
0.25000 -0.291946 -86.904504 -0.197534
-0.001172 -0.250011 -28.208796
0.50000 -0.291946 -60.586274 -0.197534
-0.001172 -0.084822 -27.784176
0.75000 -0.291946 -32.507135 -0.197534
-0.001172 -0.290723 -28.252775
1.00000 -0.291946 -11.155626 -0.197534
-0.001172 -0.583645 -76.442117

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.332808 12.442532 0.386171
0.001014 0.995151 20.537080
0.25000 0.332808 24.784484 0.386171
0.001014 0.527869 58.690547
0.50000 0.332808 54.159730 0.386171
0.001014 0.084312 80.829558
0.75000 0.332808 86.137177 0.386171
0.001014 0.348586 59.786399
1.00000 0.332808 114.186743 0.386171
0.001014 0.682276 23.262922

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.290712 -114.427952 -0.279478
-0.001033 -0.710753 -67.543093
0.25000 -0.290712 -86.354725 -0.279478
-0.001033 -0.364343 -25.362547
0.50000 -0.290712 -54.367495 -0.279478
-0.001033 -0.034467 -25.530349
0.75000 -0.290712 -25.001489 -0.279478
-0.001033 -0.451721 -25.850268
1.00000 -0.290712 -12.734686 -0.279478
-0.001033 -0.925305 -68.541666

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.332808 12.442532 0.386171
0.001166 0.995151 22.859232
0.25000 0.332808 32.068689 0.386171
0.001166 0.527869 77.934703
0.50000 0.332808 60.155018 0.386171
0.001166 0.084312 99.924141
0.75000 0.332808 86.464265 0.386171
0.001166 0.348586 78.810687
1.00000 0.332808 114.186743 0.386171
0.001166 0.682276 24.631094
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4449

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.291946 -114.465390 -0.279478
-0.001172 -0.710753 -76.357392
0.25000 -0.291946 -86.904504 -0.279478
-0.001172 -0.364343 -28.208796
0.50000 -0.291946 -60.586274 -0.279478
-0.001172 -0.043822 -27.784176
0.75000 -0.291946 -32.507135 -0.279478
-0.001172 -0.451721 -28.252775
1.00000 -0.291946 -12.734686 -0.279478
-0.001172 -0.925305 -76.442117

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.332808 12.442532 0.386171
0.001166 0.995151 22.859232
0.25000 0.332808 32.068689 0.386171
0.001166 0.527869 77.934703
0.50000 0.332808 60.155018 0.386171
0.001166 0.084312 99.924141
0.75000 0.332808 86.464265 0.386171
0.001166 0.348586 78.810687
1.00000 0.332808 114.186743 0.386171
0.001166 0.682276 24.631094

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.291946 -114.465390 -0.279478
-0.001172 -0.710753 -76.357392
0.25000 -0.291946 -86.904504 -0.279478
-0.001172 -0.364343 -28.208796
0.50000 -0.291946 -60.586274 -0.279478
-0.001172 -0.043822 -27.784176
0.75000 -0.291946 -32.507135 -0.279478
-0.001172 -0.451721 -28.252775
1.00000 -0.291946 -12.734686 -0.279478
-0.001172 -0.925305 -76.442117

ELEM 432 ========== LENGTH = 4.942369

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.132557 0.095194 0.072885
4.35E-06 0.177408 3.175444
0.25000 0.132557 0.119289 0.072885
4.35E-06 0.087357 3.296134
0.50000 0.132557 0.151059 0.072885
4.35E-06 0.013468 3.385667
0.75000 0.132557 0.180827 0.072885
4.35E-06 0.106033 3.433209
1.00000 0.132557 0.212024 0.072885
4.35E-06 0.210542 3.451586

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.041150 -0.235023 -0.084588
-0.000227 -0.207533 -1.245184
0.25000 -0.041150 -0.203824 -0.084588
-0.000227 -0.103018 -1.287129
0.50000 -0.041150 -0.174056 -0.084588
-0.000227 -0.004412 -1.382209
0.75000 -0.041150 -0.142287 -0.084588
-0.000227 -0.092797 -1.478761
1.00000 -0.041150 -0.118218 -0.084588
-0.000227 -0.182852 -1.629242

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.218880 0.582722 0.121346
9.85E-05 0.295995 7.151801
0.25000 0.218880 1.257373 0.121346
9.85E-05 0.146262 8.868346
0.50000 0.218880 2.146922 0.121346
9.85E-05 0.028063 9.630556
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4450

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 0.218880 2.980429 0.121346
9.85E-05 0.173381 9.119292
1.00000 0.218880 3.853958 0.121346
9.85E-05 0.343487 7.669687

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.060144 -3.926599 -0.137968
-0.000477 -0.338682 -4.453869
0.25000 -0.060144 -3.053020 -0.137968
-0.000477 -0.168382 -3.113245
0.50000 -0.060144 -2.219535 -0.137968
-0.000477 -0.009003 -3.260379
0.75000 -0.060144 -1.392952 -0.137968
-0.000477 -0.154875 -3.448752
1.00000 -0.060144 -0.656064 -0.137968
-0.000477 -0.304754 -5.147131

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.272698 0.566087 0.139459
0.000363 0.356225 11.810190
0.25000 0.272698 0.587772 0.139459
0.000363 0.184490 11.718954
0.50000 0.272698 0.616365 0.139459
0.000363 0.042147 11.784574
0.75000 0.272698 0.643156 0.139459
0.000363 0.180267 12.083790
1.00000 0.272698 0.671234 0.139459
0.000363 0.357578 12.549909

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.059064 -0.789453 -0.143497
-0.000667 -0.351645 -2.941195
0.25000 -0.059064 -0.761374 -0.143497
-0.000667 -0.174271 -3.100990
0.50000 -0.059064 -0.734583 -0.143497
-0.000667 -0.010631 -3.380605
0.75000 -0.059064 -0.705991 -0.143497
-0.000667 -0.162528 -3.625545
1.00000 -0.059064 -0.684329 -0.143497
-0.000667 -0.334327 -3.919022

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.250060 6.923905 0.175207
0.000553 0.451222 21.564608
0.25000 0.250060 19.700099 0.175207
0.000553 0.238258 54.298337
0.50000 0.250060 36.545931 0.175207
0.000553 0.074980 67.398203
0.75000 0.250060 52.330477 0.175207
0.000553 0.222618 54.777485
1.00000 0.250060 68.872938 0.175207
0.000553 0.428295 22.331430

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.113852 -69.009950 -0.172793
-0.000729 -0.431504 -47.728103
0.25000 -0.113852 -52.466552 -0.172793
-0.000729 -0.221366 -19.286451
0.50000 -0.113852 -36.682422 -0.172793
-0.000729 -0.033599 -19.012907
0.75000 -0.113852 -19.836616 -0.172793
-0.000729 -0.218523 -19.532918
1.00000 -0.113852 -7.074189 -0.172793
-0.000729 -0.433424 -48.642393

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.096739 0.245651 0.046048
0.000185 0.117645 4.944862
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4451

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 0.096739 0.269746 0.046048
0.000185 0.062924 4.922862
0.50000 0.096739 0.301515 0.046048
0.000185 0.017464 4.959714
0.75000 0.096739 0.331284 0.046048
0.000185 0.063140 5.078237
1.00000 0.096739 0.362481 0.046048
0.000185 0.125247 5.259398

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.015798 -0.424073 -0.050257
-0.000306 -0.123150 -1.188519
0.25000 -0.015798 -0.392874 -0.050257
-0.000306 -0.061014 -1.229423
0.50000 -0.015798 -0.363107 -0.050257
-0.000306 -0.004102 -1.323462
0.75000 -0.015798 -0.331337 -0.050257
-0.000306 -0.058398 -1.418973
1.00000 -0.015798 -0.307268 -0.050257
-0.000306 -0.115296 -1.568414

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.160522 8.986086 0.096401
0.000396 0.265355 20.332376
0.25000 0.160522 26.478811 0.096401
0.000396 0.151040 55.232926
0.50000 0.160522 49.543543 0.096401
0.000396 0.070489 83.136896
0.75000 0.160522 71.155198 0.096401
0.000396 0.106537 65.639196
1.00000 0.160522 93.804566 0.096401
0.000396 0.190298 20.870276

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.025324 -93.921596 -0.076458
-0.000460 -0.195616 -69.149112
0.25000 -0.025324 -71.270948 -0.076458
-0.000460 -0.105693 -24.017318
0.50000 -0.025324 -49.659861 -0.076458
-0.000460 -0.037885 -23.460953
0.75000 -0.025324 -26.595164 -0.076458
-0.000460 -0.119606 -23.973842
1.00000 -0.025324 -9.121291 -0.076458
-0.000460 -0.236569 -63.639067

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.242935 8.169882 0.142499
0.000350 0.374759 21.035163
0.25000 0.242935 23.978389 0.142499
0.000350 0.203019 61.670231
0.50000 0.242935 44.822426 0.142499
0.000350 0.074738 77.901026
0.75000 0.242935 64.353290 0.142499
0.000350 0.176729 62.117072
1.00000 0.242935 84.821954 0.142499
0.000350 0.331744 21.707858

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.050251 -84.961249 -0.133272
-0.000600 -0.334101 -57.990236
0.25000 -0.050251 -64.491427 -0.133272
-0.000600 -0.173573 -22.702684
0.50000 -0.050251 -44.961077 -0.133272
-0.000600 -0.037689 -22.216480
0.75000 -0.050251 -24.117072 -0.133272
-0.000600 -0.178514 -22.816582
1.00000 -0.050251 -8.325600 -0.133272
-0.000600 -0.352613 -58.739394
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4452

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.220445 5.834479 0.184810
0.000714 0.474628 21.470187
0.25000 0.220445 16.207231 0.184810
0.000714 0.249226 47.944858
0.50000 0.220445 29.884045 0.184810
0.000714 0.072994 58.564299
0.75000 0.220445 42.699221 0.184810
0.000714 0.231119 48.396944
1.00000 0.220445 56.129135 0.184810
0.000714 0.449216 22.226740

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.152153 -56.271963 -0.181661
-0.000733 -0.453322 -39.352173
0.25000 -0.152153 -42.846690 -0.181661
-0.000733 -0.231560 -16.317652
0.50000 -0.152153 -30.031851 -0.181661
-0.000733 -0.029429 -16.157404
0.75000 -0.152153 -16.355058 -0.181661
-0.000733 -0.227190 -16.631198
1.00000 -0.152153 -5.993484 -0.181661
-0.000733 -0.454146 -40.321356

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.031008 0.388298 0.118676
0.000610 0.294637 7.700342
0.25000 0.031008 0.412392 0.118676
0.000610 0.148002 7.612873
0.50000 0.031008 0.444162 0.118676
0.000610 0.023765 7.614348
0.75000 0.031008 0.473930 0.118676
0.000610 0.148220 7.757066
1.00000 0.031008 0.505128 0.118676
0.000610 0.298794 7.977396

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.192187 -0.554356 -0.121918
-0.000300 -0.303782 -1.294320
0.25000 -0.192187 -0.533157 -0.121918
-0.000300 -0.153137 -1.356596
0.50000 -0.192187 -0.493389 -0.121918
-0.000300 -0.004363 -1.472006
0.75000 -0.192187 -0.461620 -0.121918
-0.000300 -0.145316 -1.588889
1.00000 -0.192187 -0.437551 -0.121918
-0.000300 -0.291970 -1.759701

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.072668 10.949865 0.176937
0.000792 0.455418 24.489166
0.25000 0.072668 32.249546 0.176937
0.000792 0.242064 79.186186
0.50000 0.072668 60.333876 0.176937
0.000792 0.082254 100.966138
0.75000 0.072668 86.648893 0.176937
0.000792 0.212600 79.561356
1.00000 0.072668 114.227463 0.176937
0.000792 0.402990 24.936274

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.224542 -114.321361 -0.164674
-0.000452 -0.420548 -76.415541
0.25000 -0.224542 -86.741232 -0.164674
-0.000452 -0.222767 -28.738544
0.50000 -0.224542 -60.426906 -0.164674
-0.000452 -0.044249 -28.032178
0.75000 -0.224542 -32.342620 -0.164674
-0.000452 -0.232205 -28.627770
1.00000 -0.224542 -11.065892 -0.164674
-0.000452 -0.448871 -76.896453
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4453

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.147850 7.903353 0.188630
0.000958 0.491907 24.601074
0.25000 0.147850 22.519174 0.188630
0.000958 0.262893 61.968260
0.50000 0.147850 41.790616 0.188630
0.000958 0.081762 76.902242
0.75000 0.147850 59.847957 0.188630
0.000958 0.222241 62.434541
1.00000 0.147850 78.772347 0.188630
0.000958 0.428161 25.290159

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.208674 -78.906999 -0.173934
-0.000653 -0.438111 -53.850791
0.25000 -0.208674 -59.981540 -0.173934
-0.000653 -0.227078 -21.261253
0.50000 -0.208674 -41.924673 -0.173934
-0.000653 -0.035509 -20.902921
0.75000 -0.208674 -22.653261 -0.173934
-0.000653 -0.230544 -21.437990
1.00000 -0.208674 -8.053189 -0.173934
-0.000653 -0.461771 -54.686292

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.200049 6.631750 0.201583
0.000825 0.517711 23.042086
0.25000 0.200049 18.721246 0.201583
0.000825 0.271986 53.935479
0.50000 0.200049 34.661645 0.201583
0.000825 0.078005 66.309360
0.75000 0.200049 49.597789 0.201583
0.000825 0.248197 51.255116
1.00000 0.200049 65.251133 0.201583
0.000825 0.481970 23.795088

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.193475 -65.401984 -0.195209
-0.000741 -0.488305 -45.341860
0.25000 -0.193475 -49.747765 -0.195209
-0.000741 -0.250303 -18.452515
0.50000 -0.193475 -34.812003 -0.195209
-0.000741 -0.032234 -18.232255
0.75000 -0.193475 -18.871629 -0.195209
-0.000741 -0.248719 -18.732974
1.00000 -0.193475 -6.795161 -0.195209
-0.000741 -0.496277 -46.301486

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.178921 0.124573 0.115531
4.11E-06 0.291113 3.739567
0.25000 0.178921 0.132721 0.115531
4.11E-06 0.147586 3.875775
0.50000 0.178921 0.152147 0.115531
4.11E-06 0.016686 4.004767
0.75000 0.178921 0.173299 0.115531
4.11E-06 0.134196 4.107092
1.00000 0.178921 0.191855 0.115531
4.11E-06 0.266672 4.201479

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.051887 -0.201929 -0.107252
-0.000189 -0.263513 -1.588482
0.25000 -0.051887 -0.183370 -0.107252
-0.000189 -0.131042 -1.686706
0.50000 -0.051887 -0.162217 -0.107252
-0.000189 -0.005574 -1.812496
0.75000 -0.051887 -0.142791 -0.107252
-0.000189 -0.137241 -1.938608
1.00000 -0.051887 -0.134645 -0.107252
-0.000189 -0.280697 -2.092877
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4454

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.268889 0.546776 0.184341
9.74E-05 0.467600 7.863422
0.25000 0.268889 0.783091 0.184341
9.74E-05 0.239266 8.729300
0.50000 0.268889 1.346433 0.184341
9.74E-05 0.033456 9.297614
0.75000 0.268889 1.959841 0.184341
9.74E-05 0.219831 9.102376
1.00000 0.268889 2.497979 0.184341
9.74E-05 0.434632 8.641807

COMB DL-G1-2 ---------- MIN

```
REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.079724   -2.524111   -0.174651
-0.000395   -0.429566   -4.039626
0.25000   -0.079724   -1.985912   -0.174651
-0.000395   -0.211419   -3.459254
0.50000   -0.079724   -1.372462   -0.174651
-0.000395   -0.010365   -3.679214
0.75000   -0.079724   -0.809121   -0.174651
-0.000395   -0.217334   -3.908996
1.00000   -0.079724   -0.572868   -0.174651
-0.000395   -0.445399   -4.952517

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.322333    0.660852    0.204580
0.000317    0.532274   12.461299
0.25000    0.322333    0.668186    0.204580
0.000317    0.279184   12.553180
0.50000    0.322333    0.685669    0.204580
0.000317    0.049707   12.740621
0.75000    0.322333    0.704706    0.204580
0.000317    0.231783   13.121576
1.00000    0.322333    0.721407    0.204580
0.000317    0.457808   13.588485

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.078901   -0.755292   -0.184420
-0.000560   -0.454534   -3.861136
0.25000   -0.078901   -0.738589   -0.184420
-0.000560   -0.227438   -4.159126
0.50000   -0.078901   -0.719551   -0.184420
-0.000560   -0.013422   -4.481373
0.75000   -0.078901   -0.702068   -0.184420
-0.000560   -0.228981   -4.803998
1.00000   -0.078901   -0.694736   -0.184420
-0.000560   -0.481431   -5.152106

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.309103    6.397267    0.258663
0.000467    0.674247   19.558718
0.25000    0.309103   12.099381    0.258663
 0.000467    0.361192   37.137727
0.50000    0.309103   25.692422    0.258663
 0.000467    0.077005   47.287522
0.75000    0.309103   40.493545    0.258663
 0.000467    0.295815   37.767835
1.00000    0.309103   53.478440    0.258663
 0.000467    0.571054   20.814859

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.134214  -53.525763   -0.230939
-0.000598   -0.583143   -34.591985
0.25000   -0.134214  -40.539400   -0.230939
-0.000598   -0.298225   -15.415440
0.50000   -0.134214  -25.737264   -0.230939
-0.000598   -0.026815   -15.547815
0.75000   -0.134214  -12.144243   -0.230939
-0.000598   -0.301465   -15.920345
1.00000   -0.134214   -6.443614   -0.230939
-0.000598   -0.618679   -35.927590
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4455

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.095364    0.282136    0.065187
0.000176    0.169773    4.997834
0.25000    0.095364    0.290285    0.065187
0.000176    0.091201    5.086088
0.50000    0.095364    0.309710    0.065187
0.000176    0.019982    5.168033
0.75000    0.095364    0.330862    0.065187
0.000176    0.085449    5.267443
1.00000    0.095364    0.349419    0.065187
0.000176    0.157373    5.385043

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.023436   -0.365199   -0.063037
-0.000250   -0.155364   -1.479441
0.25000   -0.023436   -0.346640   -0.063037
-0.000250   -0.077889   -1.573611
0.50000   -0.023436   -0.325487   -0.063037
-0.000250   -0.000569   -1.679559
0.75000   -0.023436   -0.306061   -0.063037
-0.000250   -0.073860   -1.817364
1.00000   -0.023436   -0.297914   -0.063037
-0.000250   -0.153689   -1.967507

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.171527    9.015744    0.128078
0.000336    0.347996   17.783446
0.25000    0.171527   17.694202    0.128078
 0.000336    0.200625   44.578636
0.50000    0.171527   38.382431    0.128078
 0.000336    0.071349   59.948510
0.75000    0.171527   60.909327    0.128078
 0.000336    0.146419   44.975929
1.00000    0.171527   80.671976    0.128078
 0.000336    0.262342   18.622454

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.034539  -80.720074   -0.105770
-0.000379   -0.279481   -49.099666
0.25000   -0.034539  -60.955192   -0.105770
-0.000379   -0.149290   -19.610872
0.50000   -0.034539  -38.426753   -0.105770
-0.000379   -0.028451   -19.509207
0.75000   -0.034539  -17.738554   -0.105770
-0.000379   -0.151328   -19.769895
1.00000   -0.034539   -9.062356   -0.105770
-0.000379   -0.305042   -49.914420

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.277294    8.239729    0.201014
0.000294    0.529674   19.220098
0.25000    0.277294   16.094345    0.201014
 0.000294    0.291113   43.565117
0.50000    0.277294   34.818649    0.201014
 0.000294    0.078247   57.564546
0.75000    0.277294   55.207077    0.201014
 0.000294    0.233533   44.088725
1.00000    0.277294   73.093666    0.201014
 0.000294    0.438336   20.317200

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.067422   -73.150525   -0.176486
-0.000496   -0.451381   -45.655821
0.25000   -0.067422   -55.261916   -0.176486
-0.000496   -0.233896   -19.065810
0.50000   -0.067422   -34.872092   -0.176486
-0.000496   -0.030081   -19.074341
0.75000   -0.067422   -16.147815   -0.176486
-0.000496   -0.237228   -19.409767
1.00000   -0.067422   -8.295244   -0.176486
-0.000496   -0.481281   -46.792531
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4456

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.259781    5.506469    0.271024
0.000588    0.707043   19.735743
0.25000    0.259781   10.242951    0.271024
 0.000588    0.378282   34.320994
0.50000    0.259781   21.534062    0.271024
 0.000588    0.076189   42.782003
0.75000    0.259781   33.828671    0.271024
 0.000588    0.310547   34.955593
1.00000    0.259781   44.614624    0.271024
 0.000588    0.604772   20.993768

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.175392  -44.659021   -0.245019
-0.000610   -0.618157   -29.438431
0.25000   -0.175392  -33.871850   -0.245019
-0.000610   -0.315471   -13.578877
0.50000   -0.175392  -21.576399   -0.245019
-0.000610   -0.024695   -13.758746
0.75000   -0.175392  -10.285304   -0.245019
-0.000610   -0.312821   -14.136191
1.00000   -0.175392   -5.550055   -0.245019
-0.000610   -0.644073   -30.823995

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.038908    0.409790    0.179662
0.000507    0.461001    7.432021
0.25000    0.038908    0.417939    0.179662
0.000507    0.239193    7.491571
0.50000    0.038908    0.437365    0.179662
0.000507    0.026156    7.582565
0.75000    0.038908    0.458517    0.179662
0.000507    0.206582    7.748567
1.00000    0.038908    0.477073    0.179662
0.000507    0.416154    7.946584

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.220116   -0.479161   -0.169816
-0.000263   -0.425292   -1.623900
0.25000   -0.220116   -0.460602   -0.169816
-0.000263   -0.214435   -1.751680
0.50000   -0.220116   -0.439449   -0.169816
-0.000263   -0.005363   -1.909400
0.75000   -0.220116   -0.420023   -0.169816
-0.000263   -0.207233   -2.063106
1.00000   -0.220116   -0.411877   -0.169816
-0.000263   -0.428047   -2.246827

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.095657   12.641885    0.265705
0.000628    0.692282   22.416624
0.25000    0.095657   24.962851    0.265705
 0.000628    0.378676   60.425320
0.50000    0.095657   54.334308    0.265705
 0.000628    0.087225   82.184987
0.75000    0.095657   86.316156    0.265705
 0.000628    0.307576   60.845752
1.00000    0.095657  114.373550    0.265705
 0.000628    0.582025   23.300697

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.251779  -114.414050   -0.237183
-0.000360   -0.617939   -68.487298
0.25000   -0.251779   -86.353486   -0.237183
-0.000360   -0.323872   -26.535687
0.50000   -0.251779   -54.369449   -0.237183
-0.000360   -0.035974   -26.309984
0.75000   -0.251779   -24.998033   -0.237183
-0.000360   -0.046021   -26.596438
1.00000   -0.251779   -12.680276   -0.237183
-0.000360   -0.648135   -69.309351
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4457

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.163454    9.492444    0.275156
0.000768    0.724292   23.197265
0.25000    0.163454   18.373808    0.275156
 0.000768    0.395497   50.638396
0.50000    0.163454   39.545733    0.275156
 0.000768    0.089571   66.429383
0.75000    0.163454   62.599315    0.275156
 0.000768    0.314529   51.211728
1.00000    0.163454   82.824020    0.275156
 0.000768    0.603171   24.379385

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.234683   -82.865682   -0.245075
-0.000550   -0.630306   -51.129089
0.25000   -0.234683   -62.838692   -0.245075
-0.000550   -0.327252   -21.046263
0.50000   -0.234683   -39.583532   -0.245075
-0.000550   -0.032014   -21.039609
0.75000   -0.234683   -18.411636   -0.245075
-0.000550   -0.323262   -21.402833
1.00000   -0.234683   -9.532586   -0.245075
-0.000550   -0.656956   -52.348350

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.225380    7.993098    0.294957
0.000663    0.770002   22.258233
0.25000    0.225380   15.363676    0.294957
 0.000663    0.414950   45.075188
0.50000    0.225380   32.934101    0.294957
 0.000663    0.086916   58.229288
0.75000    0.225380   52.066099    0.294957
 0.000663    0.341996   45.680901
1.00000    0.225380   68.850433    0.294957
 0.000663    0.660968   23.517650

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.224345   -68.899251   -0.267847
-0.000608   -0.681413   -43.557853
0.25000   -0.224345   -52.113021   -0.267847
-0.000608   -0.349999   -18.685568
0.50000   -0.224345   -32.979713   -0.267847
-0.000608   -0.030265   -18.773336
0.75000   -0.224345   -15.409313   -0.267847
-0.000608   -0.346021   -19.167796
1.00000   -0.224345   -8.040654   -0.267847
-0.000608   -0.705637   -44.942636

COMB DB ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.272698   10.949865    0.201583
 0.000958    0.517711   24.601074
0.25000    0.272698   32.249546    0.201583
 0.000958    0.271986   79.186186
0.50000    0.272698   60.333876    0.201583
 0.000958    0.082254  100.966138
0.75000    0.272698   86.648893    0.201583
 0.000958    0.248197   79.581356
1.00000    0.272698  114.227463    0.201583
 0.000958    0.481970   25.290159

COMB DB ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.224542  -114.321361   -0.195209
-0.000741   -0.488305   -76.415541
0.25000   -0.224542   -86.741232   -0.195209
-0.000741   -0.250303   -28.738544
0.50000   -0.224542   -60.426906   -0.195209
-0.000741   -0.044249   -28.032178
0.75000   -0.224542   -32.342620   -0.195209
-0.000741   -0.248719   -28.627770
1.00000   -0.224542   -11.065892   -0.195209
-0.000741   -0.496277   -76.896453
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4458

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.322333   12.641885    0.294957
 0.000768    0.770002   23.197265
0.25000    0.322333   24.962851    0.294957
 0.000768    0.414950   60.425320
0.50000    0.322333   54.334308    0.294957
 0.000768    0.341996   82.184987
0.75000    0.322333   86.316156    0.294957
 0.000768    0.660968   24.379385
1.00000    0.322333  114.373550    0.294957

COMB DL ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.251779  -114.414050   -0.267847
-0.000610   -0.681413   -68.487298
0.25000   -0.251779   -86.353486   -0.267847
-0.000610   -0.349999   -26.535687
0.50000   -0.251779   -54.369449   -0.267847
-0.000610   -0.035974   -26.309984
0.75000   -0.251779   -24.998033   -0.267847
-0.000610   -0.046021   -26.596438
1.00000   -0.251779   -12.680276   -0.267847
-0.000610   -0.705637   -69.309351

COMB CAR ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.322333   12.641885    0.294957
 0.000958    0.770002   24.601074
0.25000    0.322333   32.249546    0.294957
 0.000958    0.414950   79.186186
0.50000    0.322333   60.333876    0.294957
 0.000958    0.089571  100.966138
0.75000    0.322333   86.648893    0.294957
 0.000958    0.341996   79.581356
1.00000    0.322333  114.373550    0.294957
 0.000958    0.660968   25.290159

COMB CAR ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.251779  -114.414050   -0.267847
-0.000741   -0.681413   -76.415541
0.25000   -0.251779   -86.741232   -0.267847
-0.000741   -0.349999   -28.738544
0.50000   -0.251779   -60.426906   -0.267847
-0.000741   -0.044249   -28.032178
0.75000   -0.251779   -32.342620   -0.267847
-0.000741   -0.346021   -28.627770
1.00000   -0.251779   -12.680276   -0.267847
-0.000741   -0.705637   -76.896453

COMB DESIGN ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.322333   12.641885    0.294957
 0.000958    0.770002   24.601074
0.25000    0.322333   32.249546    0.294957
 0.000958    0.414950   79.186186
0.50000    0.322333   60.333876    0.294957
 0.000958    0.089571  100.966138
0.75000    0.322333   86.648893    0.294957
 0.000958    0.341996   79.581356
1.00000    0.322333  114.373550    0.294957
 0.000958    0.660968   25.290159

COMB DESIGN ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.251779  -114.414050   -0.267847
-0.000741   -0.681413   -76.415541
0.25000   -0.251779   -86.741232   -0.267847
-0.000741   -0.349999   -28.738544
0.50000   -0.251779   -60.426906   -0.267847
-0.000741   -0.044249   -28.032178
0.75000   -0.251779   -32.342620   -0.267847
-0.000741   -0.346021   -28.627770
1.00000   -0.251779   -12.680276   -0.267847
-0.000741   -0.705637   -76.896453
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4459

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      433 ================== LENGTH
=    4.943793

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.122880    0.115519    0.080709
0.000168    0.195771    3.464726
0.25000    0.122880    0.139621    0.080709
0.000168    0.096051    3.449193
0.50000    0.122880    0.171394    0.080709
0.000168    0.013813    3.405480
0.75000    0.122880    0.201166    0.080709
0.000168    0.111595    3.318491
1.00000    0.122880    0.232395    0.080709
0.000168    0.221306    3.205318

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.053017   -0.167950   -0.088766
-4.70E-06   -0.217566   -1.641641
0.25000   -0.053017   -0.136730   -0.088766
-4.70E-06   -0.107851   -1.672485
0.50000   -0.053017   -0.106959   -0.088766
-4.70E-06   -0.005937   -1.757130
0.75000   -0.053017   -0.075186   -0.088766
-4.70E-06   -0.103567   -1.843055
1.00000   -0.053017   -0.051105   -0.088766
-4.70E-06   -0.203339   -1.982702

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.190118    0.672676    0.133292
0.000406    0.323972    7.685346
0.25000    0.190118    1.347538    0.133292
0.000406    0.159494    9.113142
0.50000    0.190118    2.237186    0.133292
0.000406    0.028315    9.601470
0.75000    0.190118    3.070796    0.133292
0.000406    0.183097    8.848610
1.00000    0.190118    3.945198    0.133292
0.000406    0.362270    7.157419

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.084035   -3.792817   -0.145099
-0.000102   -0.355988   -5.164980
0.25000   -0.084035   -2.918675   -0.145099
-0.000102   -0.176677   -3.800531
0.50000   -0.084035   -2.085083   -0.145099
-0.000102   -0.011664   -3.942532
0.75000   -0.084035   -1.195435   -0.145099
-0.000102   -0.171370   -4.120336
1.00000   -0.084035   -0.521157   -0.145099
-0.000102   -0.336020   -5.802403

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.237564    0.740036    0.139800
0.000640    0.338890   12.543688
0.25000    0.237564    0.761728    0.139800
0.000640    0.166167   12.037651
0.50000    0.237564    0.790323    0.139800
0.000640    0.042214   11.688028
0.75000    0.237564    0.817118    0.139800
0.000640    0.192450   11.607177
1.00000    0.237564    0.845224    0.139800
0.000640    0.378129   11.679302

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.079220   -0.589545   -0.151461
-0.000337   -0.370693   -3.930448
0.25000   -0.079220   -0.561448   -0.151461
-0.000337   -0.183474   -4.110779
0.50000   -0.079220   -0.534654   -0.151461
-0.000337   -0.014250   -4.339531
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4460

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
0.75000   -0.079220   -0.506058   -0.151461
-0.000337   -0.179531   -4.569434
1.00000   -0.079220   -0.484385   -0.151461
-0.000337   -0.352268   -4.847689

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.228355    7.138738    0.167870
0.000680    0.417727   22.303153
0.25000    0.228355   19.918926    0.167870
 0.000680    0.214479   54.664220
0.50000    0.228355   36.766646    0.167870
 0.000680    0.074771   67.199473
0.75000    0.228355   52.553134    0.167870
 0.000680    0.236698   54.105507
1.00000    0.228355   69.112110    0.167870
 0.000680    0.454509   21.264416

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.118685   -68.781040   -0.179889
-0.000524   -0.452171   -49.744691
0.25000   -0.118685   -52.226978   -0.179889
-0.000524   -0.231193   -20.076051
0.50000   -0.118685   -36.440819   -0.179889
-0.000524   -0.037250   -20.017790
0.75000   -0.118685   -19.593109   -0.179889
-0.000524   -0.224165   -20.637556
1.00000   -0.118685    -6.823975   -0.179889
-0.000524   -0.431221   -49.744307

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.076706    0.338975    0.050184
0.000312    0.122001    5.255378
0.25000    0.076706    0.363078    0.050184
0.000312    0.059993    5.043956
0.50000    0.076706    0.394851    0.050184
0.000312    0.017306    4.866980
0.75000    0.076706    0.424623    0.050184
0.000312    0.066893    4.833333
1.00000    0.076706    0.455851    0.050184
0.000312    0.132497    4.882231

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.025074   -0.344854   -0.053053
-0.000176   -0.129833   -1.570366
0.25000   -0.025074   -0.313634   -0.053053
-0.000176   -0.064238   -1.606388
0.50000   -0.025074   -0.283863   -0.053053
-0.000176   -0.000545   -1.639611
0.75000   -0.025074   -0.252090   -0.053053
-0.000176   -0.064161   -1.787314
1.00000   -0.025074   -0.228009   -0.053053
-0.000176   -0.126193   -1.932140

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
     T          M2          M3
0.00000    0.145030    9.166632    0.078896
0.000500    0.202631   20.829322
0.25000    0.145030   26.664825    0.078896
 0.000500    0.110840   65.521067
0.50000    0.145030   49.732141    0.078896
 0.000500    0.070047   82.947505
0.75000    0.145030   71.346456    0.078896
 0.000500    0.123749   65.092098
1.00000    0.145030   94.018435    0.078896
 0.000500    0.222482   20.077733

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
     T          M2          M3
0.00000   -0.035531   -93.757942   -0.084759
-0.000368   -0.220297   -63.663191
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4461

F R A M E   E L E M E N T   I N T E R N A
```

L FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.035531	-71.092692	-0.084759
-0.000368	-0.117416	-24.341611	
0.50000	-0.035531	-49.478827	-0.084759
-0.000368	-0.040067	-24.080104	
0.75000	-0.035531	-26.411525	-0.084759
-0.000368	-0.116497	-24.746928	
1.00000	-0.035531	-8.928461	-0.084759
-0.000368	-0.213455	-64.417147	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.215412	8.369828	0.132892
0.000616	0.332518	21.680762	
0.25000	0.215412	24.183277	0.132892
0.000616	0.173454	62.030220	
0.50000	0.215412	45.029649	0.132892
0.000616	0.074507	77.733340	
0.75000	0.215412	64.562916	0.132892
0.000616	0.196253	61.539889	
1.00000	0.215412	85.050762	0.132892
0.000616	0.369168	20.797031	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.066485	-84.758613	-0.144012
-0.000325	-0.364262	-58.769807	
0.25000	-0.066485	-64.275596	-0.144012
-0.000325	-0.187941	-23.302633	
0.50000	-0.066485	-44.742735	-0.144012
-0.000325	-0.040876	-23.134790	
0.75000	-0.066485	-23.896376	-0.144012
-0.000325	-0.184262	-23.805896	
1.00000	-0.066485	-8.096598	-0.144012
-0.000325	-0.348001	-59.725113	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.199997	6.087698	0.175926
0.000759	0.437555	22.197167	
0.25000	0.199997	16.463693	0.175926
0.000759	0.223514	48.264067	
0.50000	0.199997	30.142039	0.175926
0.000759	0.072553	58.316246	
0.75000	0.199997	42.958792	0.175926
0.000759	0.240090	47.671337	
1.00000	0.199997	56.402714	0.175926
0.000759	0.465589	21.072861	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.142026	-56.039134	-0.185495
-0.000687	-0.465545	-40.328143	
0.25000	-0.142026	-42.599203	-0.185495
-0.000687	-0.233737	-17.179475	
0.50000	-0.142026	-29.782717	-0.185495
-0.000687	-0.033149	-17.192462	
0.75000	-0.142026	-16.104378	-0.185495
-0.000687	-0.230543	-17.755926	
1.00000	-0.142026	-5.737355	-0.185495
-0.000687	-0.447658	-41.447437	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036772	0.518103	0.115271
0.000328	0.286500	7.976598	
0.25000	0.036772	0.542205	0.115271
0.000328	0.144099	7.669775	
0.50000	0.036772	0.573978	0.115271
0.000328	0.023364	7.440571	
0.75000	0.036772	0.603750	0.115271
0.000328	0.140337	7.367213	
1.00000	0.036772	0.634979	0.115271
0.000328	0.283208	7.379498	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4462

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.152964	-0.454616	-0.115662
-0.000609	-0.289003	-1.735825	
0.25000	-0.152964	-0.423397	-0.115662
-0.000609	-0.146041	-1.807150	
0.50000	-0.152964	-0.393626	-0.115662
-0.000609	-0.035858	-1.932276	
0.75000	-0.152964	-0.361853	-0.115662
-0.000609	-0.141036	-2.058682	
1.00000	-0.152964	-0.337771	-0.115662
-0.000609	-0.283522	-2.238811	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.088739	11.151322	0.155927
0.000494	0.402092	24.899919	
0.25000	0.088739	32.457661	0.155927
0.000494	0.216636	79.402022	
0.50000	0.088739	60.545137	0.155927
0.000494	0.081425	100.658430	
0.75000	0.088739	86.863393	0.155927
0.000494	0.218592	78.870851	
1.00000	0.088739	114.469495	0.155927
0.000494	0.411648	23.968345	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.183456	-114.148001	-0.161297
-0.000782	-0.416661	-76.899489	
0.25000	-0.183456	-86.550094	-0.161297
-0.000782	-0.220666	-29.007235	
0.50000	-0.183456	-60.232385	-0.161297
-0.000782	-0.046333	-28.675731	
0.75000	-0.183456	-32.144926	-0.161297
-0.000782	-0.210229	-29.474591	
1.00000	-0.183456	-10.857007	-0.161297
-0.000782	-0.401506	-77.765188	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.145767	8.174410	0.169304
0.000714	0.426645	25.248999	
0.25000	0.145767	22.794801	0.169304
0.000714	0.222383	62.243867	
0.50000	0.145767	42.068401	0.169304
0.000714	0.080971	76.572230	
0.75000	0.145767	60.127965	0.169304
0.000714	0.226701	61.599197	
1.00000	0.145767	79.071247	0.169304
0.000714	0.436892	24.044985	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.171976	-78.674147	-0.173768
-0.000929	-0.442026	-54.680790	
0.25000	-0.171976	-59.736488	-0.173768
-0.000929	-0.228812	-21.943759	
0.50000	-0.171976	-41.677300	-0.173768
-0.000929	-0.036862	-21.842872	
0.75000	-0.171976	-22.403711	-0.173768
-0.000929	-0.223108	-22.517639	
1.00000	-0.171976	-7.795961	-0.173768
-0.000929	-0.431928	-55.781194	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.183453	6.906007	0.189800
0.000775	0.473900	23.766713	
0.25000	0.183453	18.999282	0.189800
0.000775	0.243274	54.246334	
0.50000	0.183453	34.941467	0.189800
0.000775	0.077366	66.015692	
0.75000	0.183453	49.879459	0.189800
0.000775	0.255760	53.610909	
1.00000	0.183453	65.548420	0.189800
0.000775	0.495821	22.567682	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4463

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.171872	-65.157057	-0.197644
-0.000801	-0.497705	-46.302469	
0.25000	-0.171872	-49.492748	-0.197644
-0.000801	-0.254701	-19.285124	
0.50000	-0.171872	-34.555066	-0.197644
-0.000801	-0.035969	-19.262809	
0.75000	-0.171872	-18.612893	-0.197644
-0.000801	-0.248264	-19.882078	
1.00000	-0.171872	-6.530071	-0.197644
-0.000801	-0.482464	-47.457206	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.190061	0.174048	0.104849
0.000160	0.256910	4.237705	
0.25000	0.190061	0.182200	0.104849
0.000160	0.127724	4.219639	
0.50000	0.190061	0.201630	0.104849
0.000160	0.017268	4.194131	
0.75000	0.190061	0.222786	0.104849
0.000160	0.155936	4.141997	
1.00000	0.190061	0.241346	0.104849
0.000160	0.298600	4.082685	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.067135	-0.127438	-0.116503
-4.04E-06	-0.279331	-2.117794	
0.25000	-0.067135	-0.108880	-0.116503
-4.04E-06	-0.136483	-2.202462	
0.50000	-0.067135	-0.087724	-0.116503
-4.04E-06	-0.007571	-2.314999	
0.75000	-0.067135	-0.068298	-0.116503
-4.04E-06	-0.135419	-2.428029	
1.00000	-0.067135	-0.060150	-0.116503
-4.04E-06	-0.264389	-2.568836	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.264102	0.663806	0.166544
0.000363	0.408053	8.694350	
0.25000	0.264102	0.900223	0.166544
0.000363	0.203286	9.283427	
0.50000	0.264102	1.463689	0.166544
0.000363	0.034107	9.582703	
0.75000	0.264102	2.077214	0.166544
0.000363	0.264421	9.131638	
1.00000	0.264102	2.615434	0.166544
0.000363	0.503743	8.382099	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112879	-2.387190	-0.195585
-0.000100	-0.467275	-4.989848	
0.25000	-0.112879	-1.848997	-0.195585
-0.000100	-0.227184	-4.384737	
0.50000	-0.112879	-1.235477	-0.195585
-0.000100	-0.013884	-4.590684	
0.75000	-0.112879	-0.672120	-0.195585
-0.000100	-0.210165	-4.804664	
1.00000	-0.112879	-0.435815	-0.195585
-0.000100	-0.420538	-5.827517	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.310794	0.852589	0.168690
0.000554	0.417886	13.614951	
0.25000	0.310794	0.859926	0.168690
0.000554	0.210900	13.289524	
0.50000	0.310794	0.877413	0.168690
0.000554	0.050398	13.050231	
0.75000	0.310794	0.895453	0.168690
0.000554	0.282367	13.008832	
1.00000	0.310794	0.913156	0.168690
0.000554	0.534234	13.063875	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4464

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.104017	-0.551831	-0.206520
-0.000298	-0.491987	-5.182731	
0.25000	-0.104017	-0.535129	-0.206520
-0.000298	-0.239373	-5.460981	
0.50000	-0.104017	-0.516088	-0.206520
-0.000298	-0.018282	-5.764075	
0.75000	-0.104017	-0.498605	-0.206520
-0.000298	-0.215457	-6.068019	
1.00000	-0.104017	-0.491271	-0.206520
-0.000298	-0.422133	-6.396843	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.305898	6.640255	0.210378
0.000586	0.529644	20.813357	
0.25000	0.305898	12.344826	0.210378
0.000586	0.278411	37.915078	
0.50000	0.305898	25.940880	0.210378
0.000586	0.077668	47.579528	
0.75000	0.305898	40.744821	0.210378
0.000586	0.341958	37.578345	
1.00000	0.305898	53.731685	0.210378
0.000586	0.640209	20.175122	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.146416	-53.292003	-0.249034
-0.000446	-0.610080	-35.952008	
0.25000	-0.146416	-40.305780	-0.249034
-0.000446	-0.305192	-16.669366	
0.50000	-0.146416	-25.501958	-0.249034
-0.000446	-0.031986	-16.962414	
0.75000	-0.146416	-11.908552	-0.249034
-0.000446	-0.272353	-17.443654	
1.00000	-0.146416	-6.206667	-0.249034
-0.000446	-0.530186	-37.447514	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.076169	0.367214	0.055853
0.000257	0.137602	5.392314	
0.25000	0.076169	0.375367	0.055853
0.000257	0.069313	5.327110	
0.50000	0.076169	0.394796	0.055853
0.000257	0.020016	5.259648	
0.75000	0.076169	0.415953	0.055853
0.000257	0.104271	5.219622	
1.00000	0.076169	0.434512	0.055853
0.000257	0.196285	5.170368	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.038632	-0.292542	-0.075408
-0.000165	-0.178055	-1.976075	
0.25000	-0.038632	-0.273984	-0.075408
-0.000165	-0.085845	-2.064046	
0.50000	-0.038632	-0.252828	-0.075408
-0.000165	-0.006754	-2.180104	
0.75000	-0.038632	-0.233402	-0.075408
-0.000165	-0.071991	-2.296397	
1.00000	-0.038632	-0.225254	-0.075408
-0.000165	-0.139939	-2.440574	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.156388	9.206053	0.091053
0.000406	0.235694	18.601655	
0.25000	0.156388	17.888252	0.091053
0.000406	0.135307	45.057279	
0.50000	0.156388	38.581067	0.091053
0.000406	0.071465	60.112769	
0.75000	0.156388	61.112254	0.091053
0.000406	0.180661	44.825551	
1.00000	0.156388	80.877898	0.091053
0.000406	0.318211	18.165691	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4465

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.044181	-80.556257	-0.120951
-0.000314	-0.304724	-49.940147	
0.25000	-0.044181	-60.791586	-0.120951
-0.000314	-0.157961	-20.299792	
0.50000	-0.044181	-38.260582	-0.120951
-0.000314	-0.031721	-20.451821	
0.75000	-0.044181	-17.571798	-0.120951
-0.000314	-0.128292	-20.890923	
1.00000	-0.044181	-8.893687	-0.120951
-0.000314	-0.238780	-51.042812	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.262625	8.463013	0.160175
0.000509	0.402655	20.325375	
0.25000	0.262625	16.321015	0.160175
0.000509	0.216364	44.249487	
0.50000	0.262625	35.049470	0.160175
0.000509	0.078599	57.851761	
0.75000	0.262625	55.441780	0.160175
0.000509	0.285043	43.977120	
1.00000	0.262625	73.331080	0.160175
0.000509	0.520069	19.805999	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.084867	-72.943354	-0.199490
-0.000274	-0.490576	-46.833991	
0.25000	-0.084867	-55.054936	-0.199490
-0.000274	-0.247308	-20.171107	
0.50000	-0.084867	-34.662790	-0.199490
-0.000274	-0.034652	-20.402086	
0.75000	-0.084867	-15.937983	-0.199490
-0.000274	-0.212565	-21.011441	
1.00000	-0.084867	-8.083681	-0.199490
-0.000274	-0.413398	-48.420416	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.249122	5.772746	0.220111
0.000627	0.555404	20.972262	
0.25000	0.249122	10.511270	0.220111
0.000627	0.291442	35.068345	
0.50000	0.249122	21.804884	0.220111
0.000627	0.076523	43.023832	
0.75000	0.249122	34.101835	0.220111
0.000627	0.352687	34.696271	
1.00000	0.249122	44.889422	0.220111
0.000627	0.667286	20.263521	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.174463	-44.419095	-0.260596
-0.000566	-0.636389	-30.827934	
0.25000	-0.174463	-33.632039	-0.260596
-0.000566	-0.319402	-14.946031	
0.50000	-0.174463	-21.335188	-0.260596
-0.000566	-0.029868	-15.264465	
0.75000	-0.174463	-10.043774	-0.260596
-0.000566	-0.279792	-15.855356	
1.00000	-0.174463	-5.307481	-0.260596
-0.000566	-0.549894	-32.551981	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.046255	0.540763	0.152329
0.000273	0.386506	7.913872	
0.25000	0.046255	0.548916	0.152329
0.000273	0.179012	7.738008	
0.50000	0.046255	0.568345	0.152329
0.000273	0.026070	7.597143	
0.75000	0.046255	0.589501	0.152329
0.000273	0.207173	7.533637	
1.00000	0.046255	0.608061	0.152329
0.000273	0.411904	7.506229	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4466

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.198454	-0.379798	-0.165531
-0.000503	-0.409244	-2.203093	
0.25000	-0.198454	-0.361239	-0.165531
-0.000503	-0.204511	-2.347104	
0.50000	-0.198454	-0.340083	-0.165531
-0.000503	-0.007411	-2.514843	
0.75000	-0.198454	-0.320657	-0.165531
-0.000503	-0.180574	-2.682088	
1.00000	-0.198454	-0.312509	-0.165531
-0.000503	-0.368248	-2.877086	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113371	12.874602	0.213176
0.000365	0.550188	23.241070	
0.25000	0.113371	25.200879	0.213176
0.000365	0.303357	60.867633	
0.50000	0.113371	54.578847	0.213176
0.000365	0.087228	82.269598	
0.75000	0.113371	86.566785	0.213176
0.000365	0.318865	60.568989	
1.00000	0.113371	114.628433	0.213176
0.000365	0.595286	22.693312	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.228612	-114.236773	-0.235590
-0.000619	-0.603049	-69.289093	
0.25000	-0.228612	-86.176509	-0.235590
-0.000619	-0.313724	-27.142188	
0.50000	-0.228612	-54.188829	-0.235590
-0.000619	-0.039218	-27.353610	
0.75000	-0.228612	-24.816583	-0.235590
-0.000619	-0.274892	-27.916595	
1.00000	-0.228612	-12.496110	-0.235590
-0.000619	-0.536629	-70.625916	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.162972	9.776403	0.216644
0.000563	0.556059	24.320303	
0.25000	0.162972	18.661594	0.216644
0.000563	0.301314	51.256120	
0.50000	0.162972	39.838213	0.216644
0.000563	0.089646	66.567150	
0.75000	0.162972	62.896185	0.216644
0.000563	0.339914	50.867775	
1.00000	0.162972	83.123956	0.216644
0.000563	0.638742	23.574251	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.212666	-82.634466	-0.251221
-0.000743	-0.630305	-52.327126	
0.25000	-0.212666	-62.407693	-0.251221
-0.000743	-0.322005	-22.102495	
0.50000	-0.212666	-39.349907	-0.251221
-0.000743	-0.036561	-22.369715	
0.75000	-0.212666	-18.177413	-0.251221
-0.000743	-0.275116	-22.929281	
1.00000	-0.212666	-9.296405	-0.251221
-0.000743	-0.540534	-53.896227	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216932	8.280996	0.240336
0.000613	0.609532	23.487875	
0.25000	0.216932	15.654751	0.240336
0.000613	0.323519	45.783480	
0.50000	0.216932	33.229372	0.240336
0.000613	0.087142	58.443040	
0.75000	0.216932	52.364713	0.240336
0.000613	0.381845	45.402080	
1.00000	0.216932	69.151591	0.240336
0.000613	0.720256	22.748627	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4467

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.220569	-68.655819	-0.282047
-0.000644	-0.698422	-44.937854	
0.25000	-0.220569	-51.869768	-0.282047
-0.000644	-0.352097	-19.938928	
0.50000	-0.220569	-32.734281	-0.282047
-0.000644	-0.035345	-20.244769	
0.75000	-0.220569	-15.163384	-0.282047
-0.000644	-0.307002	-20.910028	
1.00000	-0.220569	-7.793101	-0.282047
-0.000644	-0.601397	-46.631852	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.237564	11.151322	0.189800
0.000775	0.473900	25.248999	
0.25000	0.237564	32.457661	0.189800
0.000775	0.243274	79.402022	
0.50000	0.237564	60.545137	0.189800
0.000775	0.081425	100.658430	
0.75000	0.237564	86.863393	0.189800
0.000775	0.255760	78.870851	
1.00000	0.237564	114.469495	0.189800
0.000775	0.495821	24.044985	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.183456	-114.148001	-0.197644
-0.000929	-0.497705	-76.899489	
0.25000	-0.183456	-86.550094	-0.197644
-0.000929	-0.254701	-29.007235	
0.50000	-0.183456	-60.232385	-0.197644
-0.000929	-0.046333	-28.675731	
0.75000	-0.183456	-32.144926	-0.197644
-0.000929	-0.248264	-29.474591	
1.00000	-0.183456	-10.857007	-0.197644
-0.000929	-0.482464	-77.765188	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.310794	12.874602	0.240336
0.000627	0.609532	24.320303	
0.25000	0.310794	25.200879	0.240336
0.000627	0.323519	60.867633	
0.50000	0.310794	54.578847	0.240336
0.000627	0.089646	82.269598	
0.75000	0.310794	86.566785	0.240336
0.000627	0.381845	60.568989	
1.00000	0.310794	114.628433	0.240336
0.000627	0.720256	23.574251	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.228612	-114.236773	-0.282047
-0.000743	-0.698422	-69.289093	
0.25000	-0.228612	-86.176509	-0.282047
-0.000743	-0.352097	-27.142188	
0.50000	-0.228612	-54.188829	-0.282047
-0.000743	-0.039218	-27.353610	
0.75000	-0.228612	-24.816583	-0.282047
-0.000743	-0.307002	-27.916595	
1.00000	-0.228612	-12.496110	-0.282047
-0.000743	-0.601397	-70.625916	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.310794	12.874602	0.240336

```
 0.000775     0.609532    25.248999
0.25000      0.310794    32.457661     0.240336
 0.000775     0.323519    79.402022
0.50000      0.310794    60.545137     0.240336
 0.000775     0.089646   100.658430
0.75000      0.310794    86.863393     0.240336
 0.000775     0.381845    78.870851
1.00000      0.310794   114.628433     0.240336
 0.000775     0.720256    24.044985
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4468

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      CAR  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.228612   -114.236773     -0.282047
-0.000929     -0.698422     -76.899489
0.25000     -0.228612    -86.550094     -0.282047
-0.000929     -0.352097     -29.007235
0.50000     -0.228612    -60.232385     -0.282047
-0.000929     -0.046333     -28.675731
0.75000     -0.228612    -32.144926     -0.282047
-0.000929     -0.307002     -29.474591
1.00000     -0.228612    -12.496110     -0.282047
-0.000929     -0.601397     -77.765188

COMB   DESIGN  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.310794    12.874602     0.240336
 0.000775     0.609532    25.248999
0.25000      0.310794    32.457661     0.240336
 0.000775     0.323519    79.402022
0.50000      0.310794    60.545137     0.240336
 0.000775     0.089646   100.658430
0.75000      0.310794    86.863393     0.240336
 0.000775     0.381845    78.870851
1.00000      0.310794   114.628433     0.240336
 0.000775     0.720256    24.044985

COMB   DESIGN  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.228612   -114.236773     -0.282047
-0.000929     -0.698422     -76.899489
0.25000     -0.228612    -86.550094     -0.282047
-0.000929     -0.352097     -29.007235
0.50000     -0.228612    -60.232385     -0.282047
-0.000929     -0.046333     -28.675731
0.75000     -0.228612    -32.144926     -0.282047
-0.000929     -0.307002     -29.474591
1.00000     -0.228612    -12.496110     -0.282047
-0.000929     -0.601397     -77.765188

ELEM      434  ================== LENGTH
=     4.943147

COMB DB-G1-1  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.092725      0.225769     0.091498
0.000456      0.108327      3.193716
0.25000      0.092725      0.249914     0.091498
0.000456      0.108327      3.019631
0.50000      0.092725      0.281687     0.091498
0.000456      0.011275      2.816548
0.75000      0.092725      0.311454     0.091498
0.000456      0.118136      2.574204
1.00000      0.092725      0.342687     0.091498
0.000456      0.234064      2.309798

COMB DB-G1-1  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.062835     -0.140513     -0.093814
-2.55E-06     -0.229706     -1.995634
0.25000     -0.062835     -0.109319     -0.093814
-2.55E-06     -0.113773     -1.965910
0.50000     -0.062835     -0.079546     -0.093814
-2.55E-06     -0.007021     -1.990272
0.75000     -0.062835     -0.047775     -0.093814
-2.55E-06     -0.117960     -2.015813
1.00000     -0.062835     -0.023704     -0.093814
-2.55E-06     -0.231032     -2.095143

COMB DB-G1-2  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.150584      0.882135     0.149956
0.000849      0.363117      7.147197
0.25000      0.150584      1.558189     0.149956
0.000849      0.178166      8.275821
0.50000      0.150584      2.447840     0.149956
0.000849      0.023684      8.455736
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4469

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST             P             V2             V3
       T             M2             M3
0.75000      0.150584      3.281322     0.149956
0.000849      0.194671      7.360866
1.00000      0.150584      4.155851     0.149956
0.000849      0.384473      5.376984

COMB DB-G1-2  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.104926     -3.688679     -0.153881
-2.29E-05     -0.377133     -5.820728
0.25000     -0.104926     -2.815257     -0.153881
-2.29E-05     -0.186994     -4.357608
0.50000     -0.104926     -1.981603     -0.153881
-2.29E-05     -0.011333     -4.404372
0.75000     -0.104926     -1.092017     -0.153881
-2.29E-05     -0.193788     -4.484155
1.00000     -0.104926     -0.418017     -0.153881
-2.29E-05     -0.379004     -6.070007

COMB DB-G1-3  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.199785      1.044559     0.158286
0.001027      0.382893     11.694391
0.25000      0.199785      1.066289     0.158286
0.001027      0.187308     10.710691
0.50000      0.199785      1.094885     0.158286
0.001027      0.035485      9.887697
0.75000      0.199785      1.121676     0.158286
0.001027      0.237018      9.300655
1.00000      0.199785      1.149785     0.158286
0.001027      0.458102      8.922787

COMB DB-G1-3  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.095297     -0.378031     -0.179285
-0.000204     -0.428818     -4.864583
0.25000     -0.095297     -0.349957     -0.179285
-0.000204     -0.207608     -4.921205
0.50000     -0.095297     -0.323161     -0.179285
-0.000204     -0.016643     -5.026441
0.75000     -0.095297     -0.294567     -0.179285
-0.000204     -0.204286     -5.132739
1.00000     -0.095297     -0.272903     -0.179285
-0.000204     -0.399753     -5.287447

COMB DB-G1-4  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.200552      7.475485     0.178323
0.000924      0.437196     21.303422
0.25000      0.200552     20.278258     0.178323
0.000924      0.223018     53.092571
0.50000      0.200552     37.126024     0.178323
0.000924      0.067145     65.079448
0.75000      0.200552     52.910084     0.178323
0.000924      0.276060     51.311000
1.00000      0.200552     69.471482     0.178323
0.000924      0.526329     18.007465

COMB DB-G1-4  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.125327    -68.487835     -0.205514
-0.000504     -0.507911     -49.732795
0.25000     -0.125327    -51.947393     -0.205514
-0.000504     -0.255196     -21.056520
0.50000     -0.125327    -36.160084     -0.205514
-0.000504     -0.040378     -20.971790
0.75000     -0.125327    -19.313544     -0.205514
-0.000504     -0.239934     -21.512338
1.00000     -0.125327     -6.549665     -0.205514
-0.000504     -0.460215     -50.574089

COMB DB-G2-1  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.070649      0.458787     0.055807
0.000433      0.135351      4.890661
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4470

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST             P             V2             V3
       T             M2             M3
0.25000      0.070649      0.482931     0.055807
0.000433      0.066365      4.498022
0.50000      0.070649      0.514795     0.055807
0.000433      0.014735      4.155861
0.75000      0.070649      0.544472     0.055807
0.000433      0.079572      3.892381
1.00000      0.070649      0.575705     0.055807
0.000433      0.151346      3.712564

COMB DB-G2-1  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.033489     -0.251058     -0.058230
-8.17E-05     -0.138032     -1.936901
0.25000     -0.033489     -0.219665     -0.058230
-8.17E-05     -0.068224     -1.929691
0.50000     -0.033489     -0.190091     -0.058230
-8.17E-05     -0.006227     -1.976403
0.75000     -0.033489     -0.158320     -0.058230
-8.17E-05     -0.071745     -2.024294
1.00000     -0.033489     -0.134249     -0.058230
-8.17E-05     -0.140699     -2.125973

COMB DB-G2-2  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.139593      9.389779     0.081875
0.000585      0.202458     20.128446
0.25000      0.139593     26.918893     0.081875
 0.000585      0.109740     64.426271
0.50000      0.139593     49.986273     0.081875
 0.000585      0.064929     81.463346
0.75000      0.139593     71.597263     0.081875
 0.000585      0.173802     63.038156
1.00000      0.139593     94.272558     0.081875
 0.000585      0.313484     17.740925

COMB DB-G2-2  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.043456    -93.496472     -0.117115
-0.000221     -0.290507     -64.392517
0.25000     -0.043456    -70.849870     -0.117115
-0.000221     -0.147477     -25.042563
0.50000     -0.043456    -49.234431     -0.117115
-0.000221     -0.042392     -24.839069
0.75000     -0.043456    -26.168730     -0.117115
-0.000221     -0.122949     -25.161681
1.00000     -0.043456     -8.692668     -0.117115
-0.000221     -0.224071     -65.194541

COMB DB-G2-3  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.190087      8.660007     0.143633
0.000914      0.351452     20.835164
0.25000      0.190087     24.501400     0.143633
 0.000914      0.181634     60.692251
0.50000      0.190087     45.347830     0.143633
 0.000914      0.067872     75.903701
0.75000      0.190087     64.878093     0.143633
 0.000914      0.246802     59.069335
1.00000      0.190087     85.370187     0.143633
 0.000914      0.460978     17.942678

COMB DB-G2-3  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.079326    -84.493331     -0.177006
-0.000199     -0.436646     -59.712451
0.25000     -0.079326    -64.027167     -0.177006
-0.000199     -0.219425     -24.173970
0.50000     -0.079326    -44.492883     -0.177006
-0.000199     -0.043703     -24.012888
0.75000     -0.079326    -23.647971     -0.177006
-0.000199     -0.200815     -24.625487
1.00000     -0.079326     -7.854702     -0.177006
-0.000199     -0.378293     -60.528537
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4471

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.182605      6.440866     0.183323
0.000843      0.450750     21.113237
0.25000      0.182606     16.835196     0.183323
 0.000843      0.229248     46.570369
0.50000      0.182606     30.513580     0.183323
 0.000843      0.064651     56.038185
0.75000      0.182606     43.328362     0.183323
 0.000843      0.274778     44.703844
1.00000      0.182606     56.774249     0.183323
 0.000843      0.527669     17.602134

COMB DB-G2-4  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.137778    -55.710339     -0.207131
-0.000736     -0.511197     -41.432251
0.25000     -0.137778    -42.281466     -0.207131
-0.000736     -0.256305     -18.196158
0.50000     -0.137778    -29.464046     -0.207131
-0.000736     -0.036086     -18.172945
0.75000     -0.137778    -15.786657     -0.207131
-0.000736     -0.241926     -18.657382
1.00000     -0.137778     -5.423904     -0.207131
-0.000736     -0.468417     -42.297647

COMB DB-G3-1  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.042666      0.677823     0.111858
7.67E-06      0.278163      7.381201
0.25000      0.042666      0.701968     0.111858
7.67E-06      0.139941      6.807670
0.50000      0.042666      0.733741     0.111858
7.67E-06      0.019701      6.298147
0.75000      0.042666      0.763509     0.111858
7.67E-06      0.132538      5.929304
1.00000      0.042666      0.794742     0.111858
7.67E-06      0.268016      5.691430

COMB DB-G3-1  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.125378     -0.295406     -0.109631
-0.000862     -0.273961     -2.223324
0.25000     -0.125378     -0.264212     -0.109631
-0.000862     -0.138489     -2.264803
0.50000     -0.125378     -0.234439     -0.109631
-0.000862     -0.006912     -2.360203
0.75000     -0.125378     -0.202668     -0.109631
-0.000862     -0.136594     -2.456783
1.00000     -0.125378     -0.178596     -0.109631
-0.000862     -0.274842     -2.607150

COMB DB-G3-2  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.097090     11.396847     0.146643
 8.32E-05      0.368362     24.010559
0.25000      0.097090     32.742637     0.146643
 8.32E-05      0.197441     78.058733
0.50000      0.097090     60.830190     0.146643
 8.32E-05      0.075672     98.865343
0.75000      0.097090     87.144399     0.146643
 8.32E-05      0.272281     76.441820
1.00000      0.097090    114.754537     0.146643
 8.32E-05      0.431982     21.236807

COMB DB-G3-2  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.155483   -113.847957     -0.170201
-0.001065     -0.439276     -77.713037
0.25000     -0.155483    -86.272755     -0.170201
-0.001065     -0.230523     -29.821634
0.50000     -0.155483    -59.953130     -0.170201
-0.001065     -0.048907     -29.596166
0.75000     -0.155483    -31.867620     -0.170201
-0.001065     -0.201516     -30.413122
1.00000     -0.155483    -10.588471     -0.170201
-0.001065     -0.382754     -78.778864
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4472

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.149530      8.513084     0.166861
0.000420      0.414928     24.094834
0.25000      0.149530     23.159311     0.166861
 0.000420      0.215790     60.499195
0.50000      0.149530     42.432964     0.166861
 0.000420      0.073253     74.228863
0.75000      0.149530     60.489750     0.166861
 0.000420      0.261449     58.513762
1.00000      0.149530     79.435802     0.166861
 0.000420      0.497035     20.494895

COMB DB-G3-3  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.147059    -78.301244     -0.194088
-0.001091     -0.483367     -55.743263
0.25000     -0.147059    -59.379166     -0.194088
-0.001091     -0.244968     -22.959145
0.50000     -0.147059    -41.318662     -0.194088
-0.001091     -0.041580     -22.883349
0.75000     -0.147059    -22.046411     -0.194088
-0.001091     -0.222931     -23.522863
1.00000     -0.147059     -7.444678     -0.194088
-0.001091     -0.428174     -56.790310

COMB DB-G3-4  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.174124      7.266767     0.193874
0.000674      0.478482     22.605512
0.25000      0.174124     19.381413     0.193874
 0.000674      0.244742     52.475065
0.50000      0.174124     35.323641     0.193874
 0.000674      0.069205     63.631783
0.75000      0.174124     50.259336     0.193874
 0.000674      0.288298     50.478833
1.00000      0.174124     65.930588     0.193874
 0.000674      0.553937     18.928231

COMB DB-G3-4  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.158274    -64.799074     -0.217793
-0.000908     -0.540023     -47.432758
0.25000     -0.158274    -49.147652     -0.217793
-0.000908     -0.272061     -20.339806
0.50000     -0.158274    -34.209882     -0.217793
-0.000908     -0.038981     -20.301586
0.75000     -0.158274    -18.267814     -0.217793
-0.000908     -0.255426     -20.855037
1.00000     -0.158274     -6.189971     -0.217793
-0.000908     -0.494976     -48.396726

COMB DL-G1-1  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.167172      0.264638     0.125406
0.000408      0.300748      4.094808
0.25000      0.167172      0.272800     0.125406
0.000408      0.145237      3.888184
0.50000      0.167172      0.292231     0.125406
0.000408      0.014403      3.659267
0.75000      0.167172      0.313389     0.125406
0.000408      0.198374      3.413860
1.00000      0.167172      0.331945     0.125406
0.000408      0.384793      3.158713

COMB DL-G1-1  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.080202     -0.090366     -0.150878
-2.20E-06     -0.360765     -2.594721
0.25000     -0.080202     -0.071809     -0.150878
-2.20E-06     -0.174354     -2.599977
0.50000     -0.080202     -0.050655     -0.150878
-2.20E-06     -0.009128     -2.633206
0.75000     -0.080202     -0.031233     -0.150878
-2.20E-06     -0.163738     -2.666702
1.00000     -0.080202     -0.023093     -0.150878
-2.20E-06     -0.319502     -2.728189
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4473

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.239067      0.833716     0.199985
0.000743      0.478479      8.411484
0.25000      0.239067      1.070428     0.199985
0.000743      0.231134      8.605524
0.50000      0.239067      1.633918     0.199985
0.000743      0.029068      8.528588
0.75000      0.239067      2.247489     0.199985
0.000743      0.341650      7.696993
1.00000      0.239067      2.785636     0.199985
0.000743      0.660109      6.580536

COMB DL-G1-2  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.130586     -2.283056     -0.258003
-1.75E-05     -0.615270     -5.867749
0.25000     -0.130586     -1.744887     -0.258003
-1.75E-05     -0.296498     -5.132312
0.50000     -0.130586     -1.131436     -0.258003
-1.75E-05     -0.016393     -5.209893
0.75000     -0.130586     -0.568192     -0.258003
-1.75E-05     -0.262035     -5.293726
1.00000     -0.130586     -0.332137     -0.258003
-1.75E-05     -0.510416     -6.189268

COMB DL-G1-3  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.286419      1.102175     0.204602
0.000887      0.484788     13.120842
0.25000      0.286419      1.109522     0.204602
0.000887      0.232087     12.237864
0.50000      0.286419      1.127009     0.204602
0.000887      0.043053     11.412315
0.75000      0.286419      1.146051     0.204602
0.000887      0.394837     10.795136
1.00000      0.286419      1.162752     0.204602
0.000887      0.752538     10.288178

COMB DL-G1-3  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.118162     -0.346555     -0.289907
-0.000203     -0.680704     -6.435819
0.25000     -0.118162     -0.329853     -0.289907
-0.000203     -0.323014     -6.551993
0.50000     -0.118162     -0.310815     -0.289907
-0.000203     -0.021736     -6.693151
0.75000     -0.118162     -0.293335     -0.289907
-0.000203     -0.271984     -6.834568
1.00000     -0.118162     -0.286009     -0.289907
-0.000203     -0.526127     -7.001188

COMB DL-G1-4  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.286762      6.932138     0.231028
0.000814      0.555768     20.225532
0.25000      0.286762     12.643835     0.231028
 0.000814      0.279378     36.660977
0.50000      0.286762     26.240457     0.231028
 0.000814      0.069480     45.658840
0.75000      0.286762     41.045512     0.231028
 0.000814      0.441639     34.985294
1.00000      0.286762     54.030635     0.231028
 0.000814      0.834164     16.988456

COMB DL-G1-4  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.151899     -53.016884     -0.323473
-0.000445     -0.776340     -37.449878
0.25000     -0.151899     -40.031217     -0.323473
-0.000445     -0.379104     -18.124874
0.50000     -0.151899     -25.229070     -0.323473
-0.000445     -0.036371     -18.219309
0.75000     -0.151899     -11.638402     -0.323473
-0.000445     -0.310816     -18.562302
1.00000     -0.151899      -5.942551     -0.323473
-0.000445     -0.597216     -38.491030
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                                Page
<                MOVING                LOAD                >
                                 4474

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.074563      0.466827     0.068596
0.000355      0.162107      5.194444
0.25000      0.074563      0.474989     0.068596
0.000355      0.077496      4.881470
0.50000      0.074563      0.494420     0.068596
0.000355      0.017390      4.597673
0.75000      0.074563      0.515578     0.068596
0.000355      0.145655      4.332261
1.00000      0.074563      0.534135     0.068596
0.000355      0.276162      4.068238

COMB DL-G2-1  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.040903     -0.206711     -0.105836
-7.49E-05     -0.248870     -2.453656
0.25000     -0.040903     -0.188154     -0.105836
-7.49E-05     -0.118322     -2.486343
0.50000     -0.040903     -0.167000     -0.105836
-7.49E-05     -0.007880     -2.547032
0.75000     -0.040903     -0.147578     -0.105836
-7.49E-05     -0.091596     -2.608020
1.00000     -0.040903     -0.139438     -0.105836
-7.49E-05     -0.176489     -2.696914

COMB DL-G2-2  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.155192      9.401508     0.101191
0.000477      0.238335     18.214030
0.25000      0.155192     18.094552     0.101191
0.000477      0.127284     44.117622
0.50000      0.155192     38.788232     0.101191
0.000477      0.066073     58.772680
0.75000      0.155192     61.321113     0.101191
0.000477      0.259029     43.007362
1.00000      0.155192     81.084108     0.101191
0.000477      0.466052     15.967292

COMB DL-G2-2  ------------------  MIN

REL DIST             P             V2             V3
       T             M2             M3
0.00000     -0.045686    -80.317438     -0.176236
-0.000205     -0.422811     -51.026922
0.25000     -0.045686    -60.553614     -0.176236
-0.000205     -0.208475     -21.318737
0.50000     -0.045686    -38.025158     -0.176236
-0.000205     -0.034889     -21.470902
0.75000     -0.045686    -17.340541     -0.176236
-0.000205     -0.152726     -21.849011
1.00000     -0.045686     -8.571615     -0.176236
-0.000205     -0.277597     -52.035918

COMB DL-G2-3  ------------------  MAX

REL DIST             P             V2             V3
       T             M2             M3
0.00000      0.249281      8.714912     0.185231
```

0.000767 0.440249 19.861058
0.25000 0.249281 16.582729 0.185231
0.000767 0.223449 43.164196
0.50000 0.249281 35.311966 0.185231
0.000767 0.071671 56.186759
0.75000 0.249281 55.705810 0.185231
0.000767 0.390133 41.723488
1.00000 0.249281 73.592713 0.185231
0.000767 0.723360 17.053751

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.094000	-72.690357	-0.277606
-0.000186	-0.664458	-48.425252	
0.25000	-0.094000	-54.802705	-0.277606
-0.000186	-0.324643	-21.568509	
0.50000	-0.094000	-34.412866	-0.277606
-0.000186	-0.038614	-21.737476	
0.75000	-0.094000	-15.691831	-0.277606
-0.000186	-0.260322	-22.110576	
1.00000	-0.094000	-7.845842	-0.277606
-0.000186	-0.490021	-49.463403	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.239962	6.080193	0.233057
0.000736	0.564303	20.304559	
0.25000	0.239962	10.824636	0.233057
0.000736	0.283720	33.703484	
0.50000	0.239962	22.118722	0.233057
0.000736	0.068321	40.951880	
0.75000	0.239962	34.416597	0.233057
0.000736	0.444014	31.920703	
1.00000	0.239962	45.202739	0.233057
0.000736	0.843490	16.859569	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.168200	-44.113997	-0.328237
-0.000642	-0.788980	-32.542265	
0.25000	-0.168200	-33.327403	-0.328237
-0.000642	-0.385211	-16.463842	
0.50000	-0.168200	-21.031943	-0.328237
-0.000642	-0.034054	-16.682462	
0.75000	-0.168200	-9.742004	-0.328237
-0.000642	-0.308471	-17.024366	
1.00000	-0.168200	-5.011523	-0.328237
-0.000642	-0.596955	-33.635130	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.053624	0.689989	0.139357
6.78E-06	0.348442	7.479676	
0.25000	0.053624	0.698151	0.139357
6.78E-06	0.176786	6.990588	
0.50000	0.053624	0.717582	0.139357
6.78E-06	0.022393	6.535201	
0.75000	0.053624	0.738740	0.139357
6.78E-06	0.215208	6.154599	
1.00000	0.053624	0.757296	0.139357
6.78E-06	0.426367	5.813826	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.174311	-0.236430	-0.170954
-0.000752	-0.420374	-2.843897	
0.25000	-0.174311	-0.217872	-0.170954
-0.000752	-0.208589	-2.941569	
0.50000	-0.174311	-0.196719	-0.170954
-0.000752	-0.008942	-3.067706	
0.75000	-0.174311	-0.177296	-0.170954
-0.000752	-0.169236	-3.193362	
1.00000	-0.174311	-0.169157	-0.170954
-0.000752	-0.341026	-3.347338	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.123438	13.114058	0.189661
6.03E-05	0.258002	22.197121	
0.25000	0.123438	25.455732	0.189661
6.03E-05	0.259385	59.741590	
0.50000	0.123438	54.834928	0.189661
6.03E-05	0.081369	80.630312	
0.75000	0.123438	86.825272	0.189661
6.03E-05	0.341625	58.392623	
1.00000	0.123438	114.883158	0.189661
6.03E-05	0.639082	20.111897	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.204561	-113.954265	-0.253162
-0.000889	-0.637872	-70.548455	
0.25000	-0.204561	-85.895202	-0.253162
-0.000889	-0.328569	-28.410384	
0.50000	-0.204561	-53.911141	-0.253162
-0.000889	-0.043001	-28.628687	
0.75000	-0.204561	-24.544811	-0.253162
-0.000889	-0.254720	-29.167517	
1.00000	-0.204561	-12.237378	-0.253162
-0.000889	-0.488422	-72.026519	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.169906	10.079066	0.207999
0.000320	0.510001	23.588021	
0.25000	0.169906	18.975356	0.207999
0.000320	0.267808	49.820787	
0.50000	0.169906	40.152860	0.207999
0.000320	0.081770	64.451026	
0.75000	0.169906	63.212566	0.207999
0.000320	0.405630	48.059305	
1.00000	0.169906	83.437625	0.207999
0.000320	0.761264	20.171957	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.188834	-82.267248	-0.296826
-0.000930	-0.725228	-53.840782	
0.25000	-0.188834	-62.061341	-0.296826
-0.000930	-0.361274	-23.533857	
0.50000	-0.188834	-39.006164	-0.296826
-0.000930	-0.040819	-23.785902	
0.75000	-0.188834	-17.837934	-0.296826
-0.000930	-0.276556	-24.268546	
1.00000	-0.188834	-8.966326	-0.296826
-0.000930	-0.535373	-55.257566	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.217096	8.598268	0.245427
0.000550	0.597465	22.771946	
0.25000	0.217096	15.981234	0.245427
0.000550	0.306158	44.330895	
0.50000	0.217096	33.556289	0.245427
0.000550	0.078704	56.274294	
0.75000	0.217096	52.693369	0.245427
0.000550	0.465906	42.512430	
1.00000	0.217096	69.477997	0.245427
0.000550	0.881857	19.222748	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206115	-68.323216	-0.344039
-0.000774	-0.834609	-46.600906	
0.25000	-0.206115	-51.537884	-0.344039
-0.000774	-0.411887	-21.482947	
0.50000	-0.206115	-32.404561	-0.344039
-0.000774	-0.039739	-21.725585	
0.75000	-0.206115	-14.837203	-0.344039
-0.000774	-0.326504	-22.165542	
1.00000	-0.206115	-7.474721	-0.344039
-0.000774	-0.629600	-47.917047	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.200552	11.398647	0.193874
0.001027	0.478482	24.094834	
0.25000	0.200552	32.742637	0.193874
0.001027	0.244742	78.058733	
0.50000	0.200552	60.830190	0.193874
0.001027	0.075672	98.865343	
0.75000	0.200552	87.144399	0.193874
0.001027	0.288298	76.441820	
1.00000	0.200552	114.754537	0.193874
0.001027	0.553937	21.236807	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.158274	-113.847957	-0.217793
-0.001091	-0.540023	-77.713037	
0.25000	-0.158274	-86.272755	-0.217793
-0.001091	-0.272061	-29.821634	
0.50000	-0.158274	-59.953130	-0.217793
-0.001091	-0.048907	-29.596166	
0.75000	-0.158274	-31.867620	-0.217793
-0.001091	-0.255426	-30.413122	
1.00000	-0.158274	-10.588473	-0.217793
-0.001091	-0.494976	-78.778864	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.286762	13.114058	0.245427
0.000887	0.597465	23.588021	
0.25000	0.286762	25.455732	0.245427
0.000887	0.306158	59.741590	
0.50000	0.286762	54.834928	0.245427
0.000887	0.081770	80.630312	
0.75000	0.286762	86.825272	0.245427
0.000887	0.465906	58.392623	
1.00000	0.286762	114.883158	0.245427
0.000887	0.881857	20.171957	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206115	-113.954265	-0.344039
-0.000930	-0.834609	-70.548455	
0.25000	-0.206115	-85.895202	-0.344039
-0.000930	-0.411887	-28.410384	
0.50000	-0.206115	-53.911141	-0.344039
-0.000930	-0.043001	-28.628687	
0.75000	-0.206115	-24.544811	-0.344039
-0.000930	-0.326504	-29.167517	
1.00000	-0.206115	-12.237378	-0.344039
-0.000930	-0.629600	-72.026519	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.286762	13.114058	0.245427
0.001027	0.597465	24.094834	
0.25000	0.286762	32.742637	0.245427
0.001027	0.306158	78.058733	
0.50000	0.286762	60.830190	0.245427
0.001027	0.081770	98.865343	
0.75000	0.286762	87.144399	0.245427
0.001027	0.465906	76.441820	
1.00000	0.286762	114.883158	0.245427
0.001027	0.881857	21.236807	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206115	-113.954265	-0.344039
-0.001091	-0.834609	-77.713037	
0.25000	-0.206115	-86.272755	-0.344039
-0.001091	-0.411887	-29.821634	
0.50000	-0.206115	-59.953130	-0.344039
-0.001091	-0.048907	-29.596166	
0.75000	-0.206115	-31.867620	-0.344039
-0.001091	-0.326504	-30.413122	
1.00000	-0.206115	-12.237378	-0.344039
-0.001091	-0.629600	-78.778864	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.286762	13.114058	0.245427
0.001027	0.597465	24.094834	
0.25000	0.286762	32.742637	0.245427
0.001027	0.306158	78.058733	
0.50000	0.286762	60.830190	0.245427
0.001027	0.081770	98.865343	
0.75000	0.286762	87.144399	0.245427
0.001027	0.465906	76.441820	
1.00000	0.286762	114.883158	0.245427
0.001027	0.881857	21.236807	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206115	-113.954265	-0.344039
-0.001091	-0.834609	-77.713037	
0.25000	-0.206115	-86.272755	-0.344039
-0.001091	-0.411887	-29.821634	
0.50000	-0.206115	-59.953130	-0.344039
-0.001091	-0.048907	-29.596166	
0.75000	-0.206115	-31.867620	-0.344039
-0.001091	-0.326504	-30.413122	
1.00000	-0.206115	-12.237378	-0.344039
-0.001091	-0.629600	-78.778864	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 435 ========== LENGTH = 4.942921

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.063016	0.253062	0.105757
0.000613	0.255479	2.312826	
0.25000	0.063016	0.277234	0.105757
0.000613	0.124806	2.100774	
0.50000	0.063016	0.309014	0.105757
0.000613	0.007073	1.861632	
0.75000	0.063016	0.338782	0.105757
0.000613	0.126050	1.587955	
1.00000	0.063016	0.370030	0.105757
0.000613	0.249448	1.297341	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.069029	-0.145995	-0.099868
-3.90E-07	-0.224237	-2.114058	
0.25000	-0.069029	-0.114813	-0.099868
-3.90E-07	-0.120831	-2.071728	
0.50000	-0.069029	-0.085035	-0.099868
-3.90E-07	-0.007886	-2.083466	
0.75000	-0.069029	-0.053262	-0.099868
-3.90E-07	-0.136744	-2.097128	
1.00000	-0.069029	-0.029195	-0.099868
-3.90E-07	-0.267357	-2.165111	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113822	0.923166	0.172149
0.001109	0.415748	5.388640	
0.25000	0.113822	1.599984	0.172149
0.001109	0.203605	6.444432	
0.50000	0.113822	2.489818	0.172149
0.001109	0.016267	6.559519	
0.75000	0.113822	3.233300	0.172149
0.001109	0.211886	5.394478	
1.00000	0.113822	4.198265	0.172149
0.001109	0.416084	3.372500	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.114908	-3.686523	-0.166106
-3.90E-07	-0.405976	-6.098537	
0.25000	-0.114908	-2.813419	-0.166106
-3.90E-07	-0.200750	-4.628721	
0.50000	-0.114908	-1.979652	-0.166106
-3.90E-07	-0.014850	-4.668298	
0.75000	-0.114908	-1.089991	-0.166106
-3.90E-07	-0.223137	-4.738017	
1.00000	-0.114908	-0.416108	-0.166106
-3.90E-07	-0.435822	-6.323667	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.163254	1.093538	0.182645
0.001290	0.440741	8.958255	
0.25000	0.163254	1.115293	0.182645
0.001290	0.215130	7.878233	
0.50000	0.163254	1.143895	0.182645
0.001290	0.024948	6.968985	
0.75000	0.163254	1.170686	0.182645
0.001290	0.271449	6.289986	
1.00000	0.163254	1.198809	0.182645
0.001290	0.530892	5.836713	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.105017	-0.342834	-0.210568
-3.51E-07	-0.510222	-5.317305	
0.25000	-0.105017	-0.314770	-0.210568
-3.51E-07	-0.250215	-5.398808	
0.50000	-0.105017	-0.287970	-0.210568
-3.51E-07	-0.018683	-5.529190	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.105017	-0.259374	-0.210568
-3.51E-07	-0.236425	-5.661533	
1.00000	-0.105017	-0.237713	-0.210568
-3.51E-07	-0.462134	-5.842920	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.170796	7.504443	0.197110
0.001070	0.476377	18.061926	
0.25000	0.170796	20.321884	0.197110
0.001070	0.242521	49.723284	
0.50000	0.170796	37.172909	0.197110
0.001070	0.055006	61.597240	
0.75000	0.170796	52.957534	0.197110
0.001070	0.307975	47.550466	
1.00000	0.170796	69.526632	0.197110
0.001070	0.588430	14.308598	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.129003	-68.426223	-0.232228
-0.000392	-0.593188	-50.451134	
0.25000	-0.129003	-51.891827	-0.232228
-0.000392	-0.293188	-21.943105	
0.50000	-0.129003	-36.102361	-0.232228
-0.000392	-0.043676	-21.890116	
0.75000	-0.129003	-19.254410	-0.232228
-0.000392	-0.265494	-22.390498	
1.00000	-0.129003	-6.492740	-0.232228
-0.000392	-0.509057	-51.592487	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.067880	0.476020	0.063365
0.000528	0.152963	3.726982	
0.25000	0.067880	0.500192	0.063365
0.000528	0.074696	3.312166	
0.50000	0.067880	0.531971	0.063365
0.000528	0.010858	2.947535	
0.75000	0.067880	0.567410	0.063365
0.000528	0.096242	2.652102	
1.00000	0.067880	0.592987	0.063365
0.000528	0.185908	2.442427	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.037290	-0.230527	-0.073186
-4.29E-06	-0.176096	-2.135317	
0.25000	-0.037290	-0.199345	-0.073186
-4.29E-06	-0.085789	-2.145270	
0.50000	-0.037290	-0.169567	-0.073186
-4.29E-06	-0.006952	-2.209126	
0.75000	-0.037290	-0.137794	-0.073186
-4.29E-06	-0.082013	-2.274024	
1.00000	-0.037290	-0.113727	-0.073186
-4.29E-06	-0.160326	-2.393050	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.133388	9.381090	0.092281
0.000692	0.219591	17.794361	
0.25000	0.133388	26.930014	0.092281
0.000692	0.118812	62.022211	
0.50000	0.133388	50.002130	0.092281
0.000692	0.056815	78.978540	
0.75000	0.133388	71.613893	0.092281
0.000692	0.207104	60.240585	
1.00000	0.133388	94.299731	0.092281
0.000692	0.383901	15.101145	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.047785	-93.437053	-0.149812
-3.90E-07	-0.379977	-65.181158	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.047785	-70.798729	-0.149812
-3.90E-07	-0.195068	-25.867265	
0.50000	-0.047785	-49.180336	-0.149812
-3.90E-07	-0.045040	-25.687040	
0.75000	-0.047785	-26.112703	-0.149812
-3.90E-07	-0.137725	-26.263469	
1.00000	-0.047785	-8.639866	-0.149812
-3.90E-07	-0.251741	-66.136773	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.164082	8.674017	0.163644
0.001127	0.392261	17.994799	
0.25000	0.164082	24.533313	0.163644
0.001127	0.202069	57.750125	
0.50000	0.164082	45.384022	0.163644
0.001127	0.057275	72.858430	
0.75000	0.164082	64.914983	0.163644
0.001127	0.282879	55.719635	
1.00000	0.164082	85.416606	0.163644
0.001127	0.536559	14.720325	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.087015	-84.442992	-0.211289
-3.51E-07	-0.528947	-60.530528	
0.25000	-0.087015	-63.984308	-0.211289
-3.51E-07	-0.268057	-25.018114	
0.50000	-0.087015	-44.447355	-0.211289
-3.51E-07	-0.046734	-24.871544	
0.75000	-0.087015	-23.600697	-0.211289
-3.51E-07	-0.228271	-25.409213	
1.00000	-0.087015	-7.810162	-0.211289
-3.51E-07	-0.430434	-61.460700	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.163037	6.472008	0.197317
0.000927	0.479414	17.656723	
0.25000	0.163037	16.878084	0.197317
0.000927	0.243490	42.985132	
0.50000	0.163037	30.559277	0.197317
0.000927	0.052250	52.332321	
0.75000	0.163037	43.374516	0.197317
0.000927	0.298009	40.742751	
1.00000	0.163037	56.826656	0.197317
0.000927	0.577105	13.669321	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.133301	-55.636276	-0.229893
-0.000662	-0.573257	-42.297398	
0.25000	-0.133301	-42.212311	-0.229893
-0.000662	-0.289351	-19.112135	
0.50000	-0.133301	-29.393140	-0.229893
-0.000662	-0.039309	-19.152255	
0.75000	-0.133301	-15.714606	-0.229893
-0.000662	-0.261179	-19.631437	
1.00000	-0.133301	-5.353647	-0.229893
-0.000662	-0.504992	-43.413094	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.045243	0.702837	0.108141
7.87E-06	0.269074	5.700507	
0.25000	0.045243	0.727009	0.108141
7.87E-06	0.135442	5.069754	
0.50000	0.045243	0.758789	0.108141
7.87E-06	0.014410	4.504241	
0.75000	0.045243	0.788557	0.108141
7.87E-06	0.124176	4.070878	
1.00000	0.045243	0.815805	0.108141
7.87E-06	0.251461	3.783786	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.102337	-0.244349	-0.103042
-0.001050	-0.258084	-2.596430	
0.25000	-0.102337	-0.213167	-0.103042
-0.001050	-0.130753	-2.690423	
0.50000	-0.102337	-0.183390	-0.103042
-0.001050	-0.008035	-2.838389	
0.75000	-0.102337	-0.151616	-0.103042
-0.001050	-0.131894	-2.987398	
1.00000	-0.102337	-0.127549	-0.103042
-0.001050	-0.265521	-3.190551	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.097945	11.391808	0.143658
8.67E-05	0.352094	21.282627	
0.25000	0.097945	32.759919	0.143658
8.67E-05	0.190673	75.225419	
0.50000	0.097945	60.853239	0.143658
8.67E-05	0.066475	95.921330	
0.75000	0.097945	87.168388	0.143658
8.67E-05	0.227469	73.116130	
1.00000	0.097945	114.791365	0.143658
8.67E-05	0.432750	18.090607	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.132332	-113.760223	-0.173519
-0.001239	-0.453313	-78.738242	
0.25000	-0.132332	-86.195102	-0.173519
-0.001239	-0.238946	-30.913094	
0.50000	-0.132332	-59.871879	-0.173519
-0.001239	-0.052210	-30.738027	
0.75000	-0.132332	-31.784018	-0.173519
-0.001239	-0.198952	-31.484066	
1.00000	-0.132332	-10.508552	-0.173519
-0.001239	-0.376453	-80.079267	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.148010	8.525537	0.169732

0.000479	0.415233	20.551896	
0.25000	0.148010	23.188316	0.169732
0.000479	0.216535	56.838744	
0.50000	0.148010	42.465926	0.169732
0.000479	0.061437	70.441725	
0.75000	0.148010	60.523358	0.169732
0.000479	0.280033	54.410496	
1.00000	0.148010	79.478219	0.169732
0.000479	0.538989	16.473071	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.127526	-78.196757	-0.214835
-0.001066	-0.542654	-56.765937	
0.25000	-0.127526	-59.281596	-0.214835
-0.001066	-0.277428	-24.068096	
0.50000	-0.127526	-41.218624	-0.214835
-0.001066	-0.044974	-24.067987	
0.75000	-0.127526	-21.944759	-0.214835
-0.001066	-0.226819	-24.700130	
1.00000	-0.127526	-7.345554	-0.214835
-0.001066	-0.436426	-58.166274	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.162651	7.292968	0.204190
0.000803	0.497597	18.980278	
0.25000	0.162651	19.421305	0.204190
0.000803	0.254387	48.723263	
0.50000	0.162651	35.366806	0.204190
0.000803	0.056714	59.755618	
0.75000	0.162651	50.303035	0.204190
0.000803	0.308652	46.317462	
1.00000	0.162651	65.981574	0.204190
0.000803	0.597583	14.815089	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.145085	-64.712735	-0.238476
-0.000889	-0.597493	-48.387136	
0.25000	-0.145085	-49.067034	-0.238476
-0.000889	-0.302991	-21.365563	
0.50000	-0.145085	-34.126223	-0.238476
-0.000889	-0.042278	-21.389961	
0.75000	-0.145085	-18.183820	-0.238476
-0.000889	-0.269944	-21.937433	
1.00000	-0.145085	-6.108067	-0.238476
-0.000889	-0.522212	-49.643900	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.133524	0.300832	0.152487
0.000600	0.366152	3.188312	
0.25000	0.133524	0.309011	0.152487
0.000600	0.177352	2.929620	
0.50000	0.133524	0.325447	0.152487
0.000600	0.009879	2.665657	
0.75000	0.133524	0.349605	0.152487
0.000600	0.230486	2.379598	
1.00000	0.133524	0.368159	0.152487
0.000600	0.452264	2.086212	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.092514	-0.101780	-0.179450
-2.22E-07	-0.434266	-2.761306	
0.25000	-0.092514	-0.083220	-0.179450
-2.22E-07	-0.212487	-2.751966	
0.50000	-0.092514	-0.062063	-0.179450
-2.22E-07	-0.010388	-2.770702	
0.75000	-0.092514	-0.042641	-0.179450
-2.22E-07	-0.197968	-2.789752	
1.00000	-0.092514	-0.034511	-0.179450
-2.22E-07	-0.387303	-2.837326	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.202528	0.912930	0.243329
0.001759	0.583373	6.637229	
0.25000	0.202528	1.150095	0.243329
0.001059	0.282033	6.742394	
0.50000	0.202528	1.713746	0.243329
0.001059	0.020896	6.559618	
0.75000	0.202528	2.327331	0.243329
0.001059	0.403813	5.635390	
1.00000	0.202528	2.865394	0.243329
0.001059	0.788977	4.443414	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.146206	-2.290426	-0.312312
-2.23E-07	-0.754287	-6.241741	
0.25000	-0.146206	-1.752176	-0.312312
-2.23E-07	-0.368723	-5.499055	
0.50000	-0.146206	-1.138641	-0.312312
-2.23E-07	-0.018409	-5.568580	
0.75000	-0.146206	-0.575385	-0.312312
-2.23E-07	-0.317455	-5.641770	
1.00000	-0.146206	-0.339620	-0.312312
-2.23E-07	-0.619176	-6.534946	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251623	1.244099	0.260102
0.001190	0.618671	10.373166	
0.25000	0.251623	1.251459	0.260102
0.001190	0.296193	9.348350	
0.50000	0.251623	1.268952	0.260102
0.001190	0.031115	8.366906	
0.75000	0.251623	1.287994	0.260102
0.001190	0.483039	7.595088	
1.00000	0.251623	1.304692	0.260102
0.001190	0.937676	6.943322	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.133793	-0.330728	-0.368845
-6.41E-06	-0.885104	-7.056424	
0.25000	-0.133793	-0.314024	-0.368845
-6.41E-06	-0.430001	-7.210263	
0.50000	-0.133793	-0.294983	-0.368845
-6.41E-06	-0.024800	-7.389623	
0.75000	-0.133793	-0.277503	-0.368845
-6.41E-06	-0.343314	-7.569324	
1.00000	-0.133793	-0.270186	-0.368845
-6.41E-06	-0.665916	-7.775574	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.261244	7.063688	0.274335
0.001034	0.656168	17.066995	
0.25000	0.261244	12.786304	0.274335
0.001034	0.326069	33.315676	
0.50000	0.261244	26.386816	0.274335
0.001034	0.055943	42.112287	
0.75000	0.261244	41.192206	0.274335
0.001034	0.517682	31.212496	
1.00000	0.261244	54.175287	0.274335
0.001034	0.993736	13.125248	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.158820	-52.978351	-0.392319
-0.000345	-0.956013	-38.512985	
0.25000	-0.158820	-39.990763	-0.392319
-0.000345	-0.473668	-19.127009	
0.50000	-0.158820	-25.186572	-0.392319
-0.000345	-0.040646	-19.336018	
0.75000	-0.158820	-11.595606	-0.392319
-0.000345	-0.368629	-19.629400	
1.00000	-0.158820	-5.906751	-0.392319
-0.000345	-0.708420	-39.709149	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.075602	0.530919	0.086726
0.000456	0.205628	4.102056	
0.25000	0.075602	0.539097	0.086726
0.000456	0.098319	3.716467	
0.50000	0.075602	0.558533	0.086726
0.000456	0.012956	3.371179	
0.75000	0.075602	0.579691	0.086726
0.000456	0.182292	3.044504	
1.00000	0.075602	0.598245	0.086726
0.000456	0.352835	2.728863	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.043903	-0.195957	-0.138418
-2.23E-06	-0.331051	-2.715675	
0.25000	-0.043903	-0.177397	-0.138418
-2.23E-06	-0.160445	-2.771338	
0.50000	-0.043903	-0.156240	-0.138418
-2.23E-06	-0.008828	-2.855039	
0.75000	-0.043903	-0.136818	-0.138418
-2.23E-06	0.114752	-2.938840	
1.00000	-0.043903	-0.126683	-0.138418
-2.23E-06	-0.221998	-3.051082	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.154890	9.460621	0.129868
0.000584	0.303186	16.030234	
0.25000	0.154890	18.170284	0.129868
0.000584	0.157052	41.850154	
0.50000	0.154890	38.869884	0.129868
0.000584	0.056958	56.288568	
0.75000	0.154890	61.403275	0.129868
0.000584	0.319537	40.332323	
1.00000	0.154890	81.163162	0.129868
0.000584	0.593604	13.283865	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.050280	-80.271093	-0.232092
-2.22E-07	-0.568234	-52.034532	
0.25000	-0.050280	-60.504347	-0.232092
-2.22E-07	-0.284652	-22.349704	
0.50000	-0.050280	-37.972782	-0.232092
-2.22E-07	-0.038283	-22.487434	
0.75000	-0.050280	-17.287709	-0.232092
-2.22E-07	-0.191143	-22.753065	
1.00000	-0.050280	-8.629431	-0.232092
-2.22E-07	-0.352093	-53.117561	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.228420	8.799813	0.230733
0.001012	0.546220	17.135071	
0.25000	0.228420	16.682672	0.230733
0.001012	0.273541	40.269836	
0.50000	0.228420	35.417268	0.230733
0.001012	0.059880	53.105473	
0.75000	0.228420	55.811574	0.230733
0.001012	0.471498	38.428340	
1.00000	0.228420	73.695663	0.230733
0.001012	0.894725	13.716986	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.104288	-72.657485	-0.351787
-2.00E-07	-0.856835	-49.487457	
0.25000	-0.104288	-54.767188	-0.351787
-2.00E-07	-0.425159	-22.746822	
0.50000	-0.104288	-34.374534	-0.351787
-2.00E-07	-0.042466	-22.892294	
0.75000	-0.104288	-15.653087	-0.351787
-2.00E-07	-0.632235	-23.153523	
1.00000	-0.104288	-7.816735	-0.351787
-2.00E-07	-0.606423	-50.656643	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.227854	6.237139	0.267329
0.000838	0.642823	16.926818	
0.25000	0.227854	10.990652	0.267329
0.000838	0.319861	30.128221	
0.50000	0.227854	22.287969	0.267329
0.000838	0.054224	37.617959	
0.75000	0.227854	34.586123	0.267329
0.000838	0.511693	27.886521	
1.00000	0.227854	45.370568	0.267329
0.000838	0.988558	12.705350	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.159296	-44.066959	-0.391598
-0.000587	-0.955002	-33.644402	
0.25000	-0.159296	-33.278769	-0.391598
-0.000587	-0.473029	-17.716909	
0.50000	-0.159296	-20.981612	-0.391598
-0.000587	-0.038205	-17.978238	
0.75000	-0.159296	-9.692224	-0.391598
-0.000587	-0.354948	-18.309564	
1.00000	-0.159296	-4.966755	-0.391598
-0.000587	-0.686020	-35.080154	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.059760	0.796175	0.133455
6.96E-06	0.332454	5.798523	
0.25000	0.059760	0.804353	0.133455
6.96E-06	0.167539	5.217336	
0.50000	0.059760	0.823789	0.133455
6.96E-06	0.016068	4.663698	
0.75000	0.059760	0.844947	0.133455
6.96E-06	0.215461	4.177179	
1.00000	0.059760	0.863501	0.133455
6.96E-06	0.431791	3.744768	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.136830	-0.205121	-0.174993
-0.000986	-0.433398	-3.320311	
0.25000	-0.136830	-0.186561	-0.174993
-0.000986	-0.217227	-3.482387	
0.50000	-0.136830	-0.165405	-0.174993
-0.000986	-0.010569	-3.675644	
0.75000	-0.136830	-0.145982	-0.174993
-0.000986	-0.162676	-3.865817	
1.00000	-0.136830	-0.137852	-0.174993
-0.000986	-0.327280	-4.090319	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.131070	13.178736	0.184251
6.54E-05	0.451198	20.114987	
0.25000	0.131070	25.544005	0.184251
6.54E-05	0.244710	56.996017	
0.50000	0.131070	54.931605	0.184251
6.54E-05	0.071135	77.693622	
0.75000	0.131070	86.922674	0.184251
6.54E-05	0.351368	55.208630	
1.00000	0.131070	114.976147	0.184251
6.54E-05	0.665208	16.949788	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.166396	-113.887725	-0.267520
-0.001101	-0.667884	-71.964730	
0.25000	-0.166396	-85.824512	-0.267520
-0.001101	-0.351130	-29.830434	
0.50000	-0.166396	-53.836037	-0.267520
-0.001101	-0.047159	-30.063653	
0.75000	-0.166396	-24.469061	-0.267520
-0.001101	-0.252503	-30.450977	
1.00000	-0.166396	-12.176744	-0.267520
-0.001101	-0.479802	-73.554837	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.176089	10.214194	0.221744
0.000372	0.536271	20.206391	
0.25000	0.176089	19.127492	0.221744
0.000372	0.277550	46.229211	
0.50000	0.176089	40.311054	0.221744
0.000372	0.068322	60.631684	
0.75000	0.176089	63.371282	0.221744
0.000372	0.449557	43.971729	
1.00000	0.176089	83.593161	0.221744
0.000372	0.860028	16.009568	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.155640	-82.213873	-0.342009
-0.000961	-0.846158	-55.220075	
0.25000	-0.155640	-61.984974	-0.342009
-0.000961	-0.426695	-24.991746	
0.50000	-0.155640	-38.926615	-0.342009
-0.000961	-0.104594	-25.218206	
0.75000	-0.155640	-17.757920	-0.342009
-0.000961	-0.299175	-25.704536	
1.00000	-0.155640	-8.897208	-0.342009
-0.000961	-0.572925	-56.939532	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.213769	8.742520	0.272075
0.000707	0.656102	19.273425	
0.25000	0.213769	16.139601	0.272075
0.000707	0.332002	40.623562	
0.50000	0.213769	33.719683	0.272075
0.000707	0.064549	52.334316	
0.75000	0.213769	52.857198	0.272075
0.000707	0.526372	38.307909	
1.00000	0.213769	69.639186	0.272075
0.000707	1.013569	14.925060	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181959	-68.265748	-0.402482
-0.000801	-0.988508	-47.907844	
0.25000	-0.181959	-51.477954	-0.402482
-0.000801	-0.493609	-22.854895	
0.50000	-0.181959	-32.341991	-0.402482
-0.000801	-0.044191	-23.129825	
0.75000	-0.181959	-14.774246	-0.402482
-0.000801	-0.362222	-23.513048	
1.00000	-0.181959	-7.420807	-0.402482
-0.000801	-0.699407	-49.468303	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.170796	11.391808	0.204190
0.001290	0.497597	21.282627	
0.25000	0.170796	32.759919	0.204190
0.001290	0.254387	75.226419	
0.50000	0.170796	60.853239	0.204190
0.001290	0.056714	95.921330	
0.75000	0.170796	87.168388	0.204190
0.001290	0.308652	73.116130	
1.00000	0.170796	114.791365	0.204190
0.001290	0.597583	18.090607	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.145085	-113.760223	-0.238476
-0.001239	-0.597493	-78.738242	
0.25000	-0.145085	-86.195102	-0.238476
-0.001239	-0.302991	-30.913094	
0.50000	-0.145085	-59.871879	-0.238476
-0.001239	-0.052210	-30.738027	
0.75000	-0.145085	-31.784018	-0.238476
-0.001239	-0.269944	-31.484066	
1.00000	-0.145085	-10.508552	-0.238476
-0.001239	-0.522212	-80.079267	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.261244	13.178736	0.274335
0.001190	0.656168	20.206391	
0.25000	0.261244	25.544005	0.274335
0.001190	0.332002	56.996017	
0.50000	0.261244	54.931605	0.274335
0.001190	0.071135	77.693622	
0.75000	0.261244	86.922674	0.274335
0.001190	0.526372	55.208630	
1.00000	0.261244	114.976147	0.274335
0.001190	1.013569	16.949788	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181959	-113.887725	-0.402482
-0.001101	-0.988508	-71.964730	
0.25000	-0.181959	-85.824512	-0.402482
-0.001101	-0.493609	-29.830434	
0.50000	-0.181959	-53.836037	-0.402482
-0.001101	-0.047159	-30.063653	
0.75000	-0.181959	-24.469061	-0.402482
-0.001101	-0.368629	-30.450977	
1.00000	-0.181959	-12.176744	-0.402482
-0.001101	-0.708420	-73.554837	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.261244	13.178736	0.274335
0.001290	0.656168	21.282627	
0.25000	0.261244	32.759919	0.274335
0.001290	0.332002	75.226419	
0.50000	0.261244	60.853239	0.274335
0.001290	0.071135	95.921330	
0.75000	0.261244	87.168388	0.274335
0.001290	0.526372	73.116130	
1.00000	0.261244	114.976147	0.274335
0.001290	1.013569	18.090607	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181959	-113.887725	-0.402482
-0.001239	-0.988508	-78.738242	
0.25000	-0.181959	-86.195102	-0.402482
-0.001239	-0.493609	-30.913094	
0.50000	-0.181959	-59.871879	-0.402482
-0.001239	-0.052210	-30.738027	
0.75000	-0.181959	-31.784018	-0.402482
-0.001239	-0.368629	-31.484066	
1.00000	-0.181959	-12.176744	-0.402482
-0.001239	-0.708420	-80.079267	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.261244	13.178736	0.274335
0.001290	0.656168	21.282627	
0.25000	0.261244	32.759919	0.274335
0.001290	0.332002	75.226419	
0.50000	0.261244	60.853239	0.274335
0.001290	0.071135	95.921330	
0.75000	0.261244	87.168388	0.274335
0.001290	0.526372	73.116130	
1.00000	0.261244	114.976147	0.274335
0.001290	1.013569	18.090607	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181959	-113.887725	-0.402482
-0.001239	-0.988508	-78.738242	
0.25000	-0.181959	-86.195102	-0.402482
-0.001239	-0.493609	-30.913094	
0.50000	-0.181959	-59.871879	-0.402482
-0.001239	-0.052210	-30.738027	
0.75000	-0.181959	-31.784018	-0.402482
-0.001239	-0.368629	-31.484066	
1.00000	-0.181959	-12.176744	-0.402482
-0.001239	-0.708420	-80.079267	

ELEM 436 ========== LENGTH = 4.942535

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070001	0.255093	0.123494
0.000654	0.298451	1.315777	
0.25000	0.070001	0.279294	0.123494
0.000654	0.145880	1.106870	
0.50000	0.070001	0.311132	0.123494
0.000654	0.002936	0.878474	
0.75000	0.070001	0.340908	0.123494
0.000654	0.134877	0.650766	
1.00000	0.070001	0.372430	0.123494
0.000654	0.266867	0.724019	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.077728	-0.245893	-0.106836
-3.91E-07	-0.261195	-2.193752	
0.25000	-0.077728	-0.214764	-0.106836
-3.91E-07	-0.129187	-2.012946	
0.50000	-0.077728	-0.184935	-0.106836
-3.91E-07	-0.007926	-1.886251	
0.75000	-0.077728	-0.153160	-0.106836
-3.91E-07	-0.159423	-1.762627	
1.00000	-0.077728	-0.129223	-0.106836
-3.91E-07	-0.312036	-1.695169	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.097213	0.975070	0.200094
0.001210	0.483105	3.405962	
0.25000	0.097213	1.653533	0.200094
0.001210	0.236481	4.375674	
0.50000	0.097213	2.545011	0.200094
0.001210	0.008087	4.408256	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.097213	3.378734	0.200094
0.001210	0.227849	3.369533	
1.00000	0.097213	4.261337	0.200094
0.001210	0.450216	1.692599	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.128809	-3.747647	-0.180426
-3.91E-07	-0.442175	-6.367973	
0.25000	-0.128809	-2.876044	-0.180426
-3.91E-07	-0.219258	-4.695718	
0.50000	-0.128809	-2.040823	-0.180426
-3.91E-07	-0.015614	-4.524151	
0.75000	-0.128809	-1.151108	-0.180426
-3.91E-07	-0.259526	-4.373096	
1.00000	-0.128809	-0.480888	-0.180426
-3.91E-07	-0.506701	-5.762195	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.135347	1.230974	0.213445
0.001467	0.514633	5.880409	
0.25000	0.135347	1.252782	0.213445
0.001467	0.251007	4.601689	

0.50000	0.135347	1.281436	0.213445
0.001467	0.012640	3.484436	
0.75000	0.135347	1.308234	0.213445
0.001467	0.290056	2.832798	
1.00000	0.135347	1.336604	0.213445
0.001467	0.575570	2.473610	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.124964	-0.300015	-0.231135
-3.52E-07	-0.566976	-5.890794	
0.25000	-0.124964	-0.271999	-0.231135
-3.52E-07	-0.281468	-5.727069	
0.50000	-0.124964	-0.245153	-0.231135
-3.52E-07	-0.019953	-5.612450	
0.75000	-0.124964	-0.216555	-0.231135
-3.52E-07	-0.279349	-5.500333	
1.00000	-0.124964	-0.195012	-0.231135
-3.52E-07	-0.540814	-5.440075	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.148833	7.467545	0.224425
0.001217	0.540187	14.354079	
0.25000	0.148833	20.315932	0.224425
0.001217	0.272801	45.753432	
0.50000	0.148833	37.198293	0.224425
0.001217	0.040405	57.269055	
0.75000	0.148833	52.986925	0.224425
0.001217	0.322127	41.645210	
1.00000	0.148833	69.701221	0.224425
0.001217	0.625090	10.045336	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.134976	-68.278974	-0.253321
-0.000403	-0.636958	-51.627423	
0.25000	-0.134976	-51.772993	-0.253321
-0.000403	-0.324024	-22.775415	
0.50000	-0.134976	-35.955995	-0.253321
-0.000403	-0.046041	-22.315861	
0.75000	-0.134976	-19.107025	-0.253321
-0.000403	-0.303893	-22.214203	
1.00000	-0.134976	-6.414742	-0.253321
-0.000403	-0.579467	-51.234339	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.033858	0.557070	0.073179
0.000604	0.176405	2.459870	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.033858	0.581301	0.073179
0.000604	0.086002	1.914490	
0.50000	0.033858	0.613139	0.073179
0.000604	0.005734	1.418417	
0.75000	0.033858	0.642915	0.073179
0.000604	0.103905	1.015582	
1.00000	0.033858	0.674436	0.073179
0.000604	0.206247	0.738660	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.044741	-0.170004	-0.082898
-4.30E-06	-0.203666	-2.408041	
0.25000	-0.044741	-0.138676	-0.082898
-4.30E-06	-0.101245	-2.349693	
0.50000	-0.044741	-0.109046	-0.082898
-4.30E-06	-0.007815	-2.345650	
0.75000	-0.044741	-0.077271	-0.082898
-4.30E-06	-0.095309	-2.342661	
1.00000	-0.044741	-0.053334	-0.082898
-4.30E-06	-0.185505	-2.395866	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.092258	9.263254	0.110248
0.000832	0.299968	15.130895	
0.25000	0.092258	26.854822	0.110248
0.000832	0.137242	59.098522	
0.50000	0.092258	49.969568	0.110248
0.000832	0.046183	75.667987	
0.75000	0.092258	71.586817	0.110248
0.000832	0.213813	54.628768	
1.00000	0.092258	94.471455	0.110248
0.000832	0.404873	11.516278	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.061321	-93.186406	-0.165753
-3.91E-07	-0.427981	-66.151029	
0.25000	-0.061321	-70.586987	-0.165753
-3.91E-07	-0.223276	-26.755677	
0.50000	-0.061321	-48.930899	-0.165753
-3.91E-07	-0.047441	-26.233387	
0.75000	-0.061321	-25.861870	-0.165753
-3.91E-07	-0.185114	-26.199981	
1.00000	-0.061321	-8.484035	-0.165753
-3.91E-07	-0.299114	-66.037278	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.131094	8.581919	0.193120
0.001275	0.460678	14.763065	
0.25000	0.131094	24.479753	0.193120
0.001275	0.234318	54.254164	
0.50000	0.131094	45.368989	0.193120
0.001275	0.044222	68.992673	
0.75000	0.131094	64.904908	0.193120
0.001275	0.295723	49.944207	
1.00000	0.131094	85.586190	0.193120
0.001275	0.568592	10.964090	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.105391	-84.278086	-0.230885
-3.52E-07	-0.584848	-61.494784	
0.25000	-0.105391	-63.854561	-0.230885
-3.52E-07	-0.299653	-25.813169	
0.50000	-0.105391	-44.283543	-0.230885
-3.52E-07	-0.049048	-25.262203	
0.75000	-0.105391	-23.435623	-0.230885
-3.52E-07	-0.269845	-25.153334	
1.00000	-0.105391	-7.730943	-0.230885
-3.52E-07	-0.506589	-61.076317	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139114	6.503465	0.218370
0.001067	0.528210	13.714191	
0.25000	0.139114	16.934829	0.218370
0.001067	0.266431	38.730502	
0.50000	0.139114	30.641300	0.218370
0.001067	0.038987	47.684220	
0.75000	0.139114	43.459793	0.218370
0.001067	0.308490	34.718596	
1.00000	0.139114	57.029816	0.218370
0.001067	0.601270	8.907857	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126652	-55.432683	-0.243592
-0.000702	-0.610841	-43.439188	
0.25000	-0.126652	-42.031788	-0.243592
-0.000702	-0.309950	-20.062919	
0.50000	-0.126652	-29.190265	-0.243592
-0.000702	-0.041884	-19.737705	
0.75000	-0.126652	-15.510903	-0.243592
-0.000702	-0.291444	-19.702799	
1.00000	-0.126652	-5.206277	-0.243592
-0.000702	-0.559573	-43.310321	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.050264	0.793808	0.104543
1.02E-05	0.260024	3.797441	
0.25000	0.050264	6.818039	0.104543
1.02E-05	0.130848	33.024865	
0.50000	0.050264	0.849878	0.104543
1.02E-05	0.007669	2.312845	
0.75000	0.050264	0.879653	0.104543
1.02E-05	0.115426	1.726898	
1.00000	0.050264	0.911175	0.104543
1.02E-05	0.234219	1.308329	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.065015	-0.156855	-0.096223
-0.001143	-0.241389	-3.182953	
0.25000	-0.065015	-0.125727	-0.096223
-0.001143	-0.122493	-3.203903	
0.50000	-0.065015	-0.095897	-0.096223
-0.001143	-0.009368	-3.278396	
0.75000	-0.065015	-0.064122	-0.096223
-0.001143	-0.127514	-3.353564	
1.00000	-0.065015	-0.040185	-0.096223
-0.001143	-0.256707	-3.483660	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.100491	11.205441	0.148146
0.000117	0.358563	18.115354	
0.25000	0.100491	32.625476	0.148146
0.000117	0.191775	71.799832	
0.50000	0.100491	60.770705	0.148146
0.000117	0.054818	92.085176	
0.75000	0.100491	87.092234	0.148146
0.000117	0.214164	66.512859	
1.00000	0.100491	114.957575	0.148146
0.000117	0.406455	13.997150	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.092943	-113.510645	-0.169106
-0.001299	-0.445877	-80.067014	
0.25000	-0.092943	-85.992895	-0.169106
-0.001299	-0.236991	-32.173219	
0.50000	-0.092943	-59.623773	-0.169106
-0.001299	-0.055361	-31.612298	
0.75000	-0.092943	-31.534212	-0.169106
-0.001299	-0.207440	-31.645456	
1.00000	-0.092943	-10.374424	-0.169106
-0.001299	-0.390488	-80.225353	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.126939	8.514917	0.178241
0.000568	0.432963	16.509454	
0.25000	0.126939	23.213326	0.178241
0.000568	0.224058	52.443797	
0.50000	0.126939	42.526556	0.178241
0.000568	0.046201	65.577467	
0.75000	0.126939	60.588572	0.178241
0.000568	0.274456	47.447883	
1.00000	0.126939	79.709538	0.178241
0.000568	0.533924	11.053876	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.101115	-77.897409	-0.219300
-0.001160	-0.561348	-58.167323	
0.25000	-0.101115	-59.014753	-0.219300
-0.001160	-0.290551	-25.336113	
0.50000	-0.101115	-40.920286	-0.219300
-0.001160	-0.048173	-24.984683	
0.75000	-0.101115	-21.645255	-0.219300
-0.001160	-0.241268	-25.041527	
1.00000	-0.101115	-7.125427	-0.219300
-0.001160	-0.459682	-58.411568	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.135319	7.316883	0.221294
0.000936	0.536518	14.858666	
0.25000	0.135319	19.474691	0.221294
0.000936	0.272456	44.256853	
0.50000	0.135319	35.449656	0.221294
0.000936	0.040886	54.854509	
0.75000	0.135319	50.389676	0.221294
0.000936	0.310013	39.772163	
1.00000	0.135319	66.205608	0.221294
0.000936	0.605905	9.661868	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.127076	-64.475828	-0.247162
-0.000967	-0.625157	-49.660684	
0.25000	-0.127076	-48.857015	-0.247162
-0.000967	-0.319882	-22.460796	
0.50000	-0.127076	-33.890152	-0.247162
-0.000967	-0.045297	-22.126697	
0.75000	-0.127076	-17.946784	-0.247162
-0.000967	-0.295293	-22.130522	
1.00000	-0.127076	-5.936689	-0.247162
-0.000967	-0.567031	-49.689903	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.124835	0.298643	0.183135
0.000649	0.441561	2.135040	
0.25000	0.124835	0.307077	0.183135
0.000649	0.215242	1.843646	
0.50000	0.124835	0.326550	0.183135
0.000649	0.004941	1.548688	
0.75000	0.124835	0.347718	0.183135
0.000649	0.250643	1.293452	
1.00000	0.124835	0.366220	0.183135
0.000649	0.495901	1.110528	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.104916	-0.230958	-0.198411
-2.34E-07	-0.484479	-2.882448	
0.25000	-0.104916	-0.212365	-0.198411
-2.34E-07	-0.239216	-2.684507	
0.50000	-0.104916	-0.191183	-0.198411
-2.34E-07	-0.010314	-2.516107	
0.75000	-0.104916	-0.171768	-0.198411
-2.34E-07	-0.236374	-2.368655	
1.00000	-0.104916	-0.163729	-0.198411
-2.34E-07	-0.463536	-2.321638	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.157814	0.975245	0.293033
0.001196	0.704494	4.530518	
0.25000	0.157814	1.219842	0.293033
0.001196	0.341405	4.451503	
0.50000	0.157814	1.784563	0.293033
0.001196	0.010922	4.110078	
0.75000	0.157814	2.398429	0.293033
0.001196	0.442547	3.180107	
1.00000	0.157814	2.934994	0.293033
0.001196	0.874871	2.195980	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.180293	-2.373463	-0.349977
-2.34E-07	-0.854615	-6.605953	
0.25000	-0.180293	-1.834290	-0.349977
-2.34E-07	-0.422161	-5.609154	
0.50000	-0.180293	-1.220008	-0.349977
-2.34E-07	-0.019292	-5.453393	
0.75000	-0.180293	-0.656972	-0.349977
-2.34E-07	-0.380350	-5.430081	
1.00000	-0.180293	-0.423849	-0.349977
-2.34E-07	-0.743795	-6.484767	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.195737	1.362286	0.323741
0.001357	0.773116	7.046666	
0.25000	0.195737	1.369876	0.323741
0.001357	0.371736	5.725275	
0.50000	0.195737	1.387402	0.323741
0.001357	0.016137	4.561465	
0.75000	0.195737	1.405453	0.323741
0.001357	0.532513	3.809992	
1.00000	0.195737	1.423105	0.323741
0.001357	1.050968	3.444396	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.170555	-0.311289	-0.419990
-6.74E-06	-1.023958	-7.852569	
0.25000	-0.170555	-0.294556	-0.419990
-6.74E-06	-0.505765	-7.739203	
0.50000	-0.170555	-0.275492	-0.419990
-6.74E-06	-0.126686	-7.618720	
0.75000	-0.170555	-0.258018	-0.419990
-6.74E-06	-0.425344	-8.133321	
1.00000	-0.170555	-0.250783	-0.419990
-6.74E-06	-0.825483	-8.790216	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.229318	7.042638	0.330131
0.001125	0.788563	13.211252	
0.25000	0.229318	12.944581	0.330131
0.001125	0.389312	29.085604	
0.50000	0.229318	26.570915	0.330131
0.001125	0.038516	37.462555	
0.75000	0.229318	41.383077	0.330131
0.001125	0.553338	26.372219	
1.00000	0.229318	54.330025	0.330131
0.001125	1.081493	8.601814	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.177984	-52.739513	-0.434791
-0.000379	-1.074636	-39.761980	
0.25000	-0.177984	-39.709629	-0.434791
-0.000379	-0.539044	-20.303481	
0.50000	-0.177984	-24.907444	-0.434791
-0.000379	-0.044168	-20.386052	
0.75000	-0.177984	-11.321769	-0.434791
-0.000379	-0.441904	-20.788356	
1.00000	-0.177984	-5.696660	-0.434791
-0.000379	-0.849742	-41.555440	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036037	0.621414	0.107762
0.000568	0.256312	2.769931	
0.25000	0.036037	0.629848	0.107762
0.000568	0.122774	2.186765	
0.50000	0.036037	0.649322	0.107762
0.000568	0.003778	1.721845	
0.75000	0.036037	0.670489	0.107762
0.000568	0.202998	1.368386	
1.00000	0.036037	0.688992	0.107762
0.000568	0.400825	1.159958	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.066654	-0.123092	-0.160204
-2.34E-06	-0.390540	-3.076324	
0.25000	-0.066654	-0.104500	-0.160204
-2.34E-06	-0.192891	-3.063356	
0.50000	-0.066654	-0.083318	-0.160204
-2.34E-06	-0.010216	-3.164128	
0.75000	-0.066654	-0.063903	-0.160204
-2.34E-06	-0.142163	-3.413131	
1.00000	-0.066654	-0.055864	-0.160204
-2.34E-06	-0.275923	-3.857399	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113088	9.359220	0.168689
0.000720	0.393300	13.340088	
0.25000	0.113088	18.341833	0.168689
0.000720	0.199004	38.765443	
0.50000	0.113088	39.080714	0.168689
0.000720	0.044176	52.664096	
0.75000	0.113088	61.624411	0.168689
0.000720	0.345694	36.331404	
1.00000	0.113088	81.329305	0.168689
0.000720	0.659537	9.454584	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074942	-79.853658	-0.265292
-2.34E-07	-0.662612	-53.144261	
0.25000	-0.074942	-60.052976	-0.265292
-2.34E-07	-0.337131	-23.596923	
0.50000	-0.074942	-37.494023	-0.265292
-2.34E-07	-0.041920	-23.654203	
0.75000	-0.074942	-16.817004	-0.265292
-2.34E-07	-0.242724	-24.031352	
1.00000	-0.074942	-8.255746	-0.265292
-2.34E-07	-0.450219	-55.134088	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.173411	8.731325	0.288281
0.001164	0.682308	13.807035	
0.25000	0.173411	16.861204	0.288281
0.001164	0.338499	36.527503	
0.50000	0.173411	35.631370	0.288281
0.001164	0.044050	48.618432	
0.75000	0.173411	56.035004	0.288281
0.001164	0.512045	33.816067	
1.00000	0.173411	73.869320	0.288281
0.001164	0.991231	9.341515	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.139643	-72.355700	-0.397825
-2.10E-07	-0.984460	-50.717203	
0.25000	-0.139643	-54.434689	-0.397825
-2.10E-07	-0.495052	-23.855045	
0.50000	-0.139643	-34.017248	-0.397825
-2.10E-07	-0.045976	-23.786390	
0.75000	-0.139643	-15.303090	-0.397825
-2.10E-07	-0.395614	-24.042493	
1.00000	-0.139643	-7.554548	-0.397825
-2.10E-07	-0.751301	-52.157381	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.201512	6.274000	0.313721
0.000976	0.751351	12.778077	
0.25000	0.201512	11.176872	0.313721
0.000976	0.370979	25.576665	
0.50000	0.201512	22.495638	0.313721
0.000976	0.035937	32.211319	
0.75000	0.201512	34.779417	0.313721
0.000976	0.539955	22.799137	
1.00000	0.201512	45.553848	0.313721
0.000976	1.059992	7.945497	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.166010	-43.790457	-0.426828
-0.000680	-1.055977	-35.117733	
0.25000	-0.166010	-32.983747	-0.426828
-0.000680	-0.529797	-19.042558	
0.50000	-0.166010	-20.671642	-0.426828
-0.000680	-0.042299	-19.338798	
0.75000	-0.166010	-9.386649	-0.426828
-0.000680	-0.417454	-19.872813	
1.00000	-0.166010	-4.714132	-0.426828
-0.000680	-0.804471	-37.430199	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.083957	0.871350	0.130121
8.41E-06	0.322134	3.737533	
0.25000	0.083957	0.879785	0.130121
8.41E-06	0.161658	3.097233	
0.50000	0.083957	0.899258	0.130121
8.41E-06	0.007982	2.429791	
0.75000	0.083957	0.920426	0.130121
8.41E-06	0.202987	2.006312	
1.00000	0.083957	0.938928	0.130121
8.41E-06	0.411690	1.748505	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.089212	-0.115802	-0.168799
-0.001144	-0.423597	-4.064911	
0.25000	-0.089212	-0.097210	-0.168799
-0.001144	-0.214944	-4.218017	
0.50000	-0.089212	-0.076027	-0.168799
-0.001144	-0.012646	-4.575522	
0.75000	-0.089212	-0.056612	-0.168799
-0.001144	-0.160877	-5.063507	
1.00000	-0.089212	-0.048574	-0.168799
-0.001144	-0.321515	-5.719985	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.166762	12.957412	0.191840
8.01E-05	0.462262	16.947752	
0.25000	0.166762	25.710163	0.191840
8.01E-05	0.246433	53.481859	
0.50000	0.166762	55.153560	0.191840
8.01E-05	0.057066	73.571278	
0.75000	0.166762	87.159261	0.191840
8.01E-05	0.335094	50.649928	
1.00000	0.166762	115.134659	0.191840
8.01E-05	0.642688	12.616117	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.116486	-113.380331	-0.264380
-0.001246	-0.681050	-73.521304	
0.25000	-0.116486	-85.268941	-0.264380
-0.001246	-0.356589	-31.715349	
0.50000	-0.116486	-53.241582	-0.264380
-0.001246	-0.051979	-31.869796	
0.75000	-0.116486	-23.886040	-0.264380
-0.001246	-0.266509	-32.333432	
1.00000	-0.116486	-11.731465	-0.264380
-0.001246	-0.503164	-76.267629	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.177820	10.144618	0.247226
0.000453	0.592168	16.040312	
0.25000	0.177820	19.337227	0.247226
0.000453	0.302109	41.614173	
0.50000	0.177820	40.561009	0.247226
0.000453	0.050072	55.486235	
0.75000	0.177820	63.631784	0.247226
0.000453	0.453898	38.519240	
1.00000	0.177820	83.797384	0.247226
0.000453	0.883335	10.845520	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126001	-81.732375	-0.358995
-0.001152	-0.903603	-56.929774	
0.25000	-0.126001	-61.468748	-0.358995
-0.001152	-0.462034	-26.864162	
0.50000	-0.126001	-38.382360	-0.358995
-0.001152	-0.050725	-27.237908	
0.75000	-0.126001	-17.281907	-0.358995
-0.001152	-0.335856	-28.003913	
1.00000	-0.126001	-8.460484	-0.358995
-0.001152	-0.640174	-60.245046	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.190289	8.728363	0.310693
0.000838	0.745050	14.983973	
0.25000	0.190289	16.357242	0.310693
0.000838	0.373366	35.872867	
0.50000	0.190289	33.970702	0.310693
0.000838	0.045468	47.064885	
0.75000	0.190289	53.116969	0.310693
0.000838	0.545422	32.780296	
1.00000	0.190289	69.852252	0.310693
0.000838	1.066992	9.721303	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.171250	-67.881523	-0.431468
-0.000960	-1.075890	-49.488745	
0.25000	-0.171250	-51.064888	-0.431468
-0.000960	-0.544251	-24.481059	
0.50000	-0.171250	-31.905665	-0.431468
-0.000960	-0.049172	-24.748183	
0.75000	-0.171250	-14.344760	-0.431468
-0.000960	-0.415581	-25.378083	
1.00000	-0.171250	-7.073720	-0.431468
-0.000960	-0.799056	-52.253199	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.148833	11.205441	0.224425
0.001467	0.540187	18.115354	
0.25000	0.148833	32.625476	0.224425
0.001467	0.272801	71.799832	
0.50000	0.148833	60.770705	0.224425
0.001467	0.054818	92.085176	
0.75000	0.148833	87.092534	0.224425
0.001467	0.322127	66.512859	
1.00000	0.148833	114.957575	0.224425
0.001467	0.625090	13.997150	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.134976	-113.510645	-0.253321
-0.001299	-0.636958	-80.067014	
0.25000	-0.134976	-85.992895	-0.253321
-0.001299	-0.324024	-32.173219	
0.50000	-0.134976	-59.623773	-0.253321
-0.001299	-0.055361	-31.612298	
0.75000	-0.134976	-31.534212	-0.253321
-0.001299	-0.303893	-31.645456	
1.00000	-0.134976	-10.374424	-0.253321
-0.001299	-0.579467	-80.225353	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4496

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.229318	12.957412	0.330131
0.001357	0.788563	16.947752	
0.25000	0.229318	25.710163	0.330131
0.001357	0.389312	53.481859	
0.50000	0.229318	55.153560	0.330131
0.001357	0.057066	73.571278	
0.75000	0.229318	87.159261	0.330131
0.001357	0.553338	50.649928	
1.00000	0.229318	115.134659	0.330131
0.001357	1.081493	12.616117	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.180293	-113.380331	-0.434791
-0.001246	-1.075890	-73.521304	
0.25000	-0.180293	-85.268941	-0.434791
-0.001246	-0.544251	-31.715349	
0.50000	-0.180293	-53.241582	-0.434791
-0.001246	-0.051979	-31.869796	
0.75000	-0.180293	-23.886040	-0.434791
-0.001246	-0.441904	-32.333432	
1.00000	-0.180293	-11.731465	-0.434791
-0.001246	-0.849742	-76.267629	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.229318	12.957412	0.330131
0.001467	0.788563	18.115354	
0.25000	0.229318	32.625476	0.330131
0.001467	0.389312	71.799832	
0.50000	0.229318	60.770705	0.330131
0.001467	0.057066	92.085176	
0.75000	0.229318	87.159261	0.330131
0.001467	0.553338	66.512859	
1.00000	0.229318	115.134659	0.330131
0.001467	1.081493	13.997150	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.180293	-113.510645	-0.434791
-0.001299	-1.075890	-80.067014	
0.25000	-0.180293	-85.992895	-0.434791
-0.001299	-0.544251	-32.173219	
0.50000	-0.180293	-59.623773	-0.434791
-0.001299	-0.055361	-31.869796	
0.75000	-0.180293	-31.534212	-0.434791
-0.001299	-0.441904	-32.333432	
1.00000	-0.180293	-11.731465	-0.434791
-0.001299	-0.849742	-80.225353	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.229318	12.957412	0.330131
0.001467	0.788563	18.115354	
0.25000	0.229318	32.625476	0.330131
0.001467	0.389312	71.799832	
0.50000	0.229318	60.770705	0.330131
0.001467	0.057066	92.085176	
0.75000	0.229318	87.159261	0.330131
0.001467	0.553338	66.512859	
1.00000	0.229318	115.134659	0.330131
0.001467	1.081493	13.997150	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.180293	-113.510645	-0.434791
-0.001299	-1.075890	-80.067014	
0.25000	-0.180293	-85.992895	-0.434791
-0.001299	-0.544251	-32.173219	
0.50000	-0.180293	-59.623773	-0.434791
-0.001299	-0.055361	-31.869796	
0.75000	-0.180293	-31.534212	-0.434791
-0.001299	-0.441904	-32.333432	
1.00000	-0.180293	-11.731465	-0.434791
-0.001299	-0.849742	-80.225353	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4497

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

ELEM 437 ========== LENGTH = 4.943534

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.083062	0.226887	0.134280
0.000613	0.331580	0.755147	
0.25000	0.083062	0.251959	0.134280
0.000613	0.165660	0.799224	
0.50000	0.083062	0.284552	0.134280
0.000613	0.000862	0.806796	
0.75000	0.083062	0.311928	0.134280
0.000613	0.133051	0.765771	
1.00000	0.083062	0.347816	0.134280
0.000613	0.267364	0.697580	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.087999	-0.222375	-0.108753
-0.000342	-0.270260	-1.731551	
0.25000	-0.087999	-0.191607	-0.108753
-0.000342	-0.135853	-1.589143	
0.50000	-0.087999	-0.161100	-0.108753
-0.000342	-0.003884	-1.496158	
0.75000	-0.087999	-0.129397	-0.108753
-0.000342	-0.166346	-1.406449	
1.00000	-0.087999	-0.107294	-0.108753
-0.000342	-0.332297	-1.380631	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.104130	0.704515	0.219704
0.001074	0.540813	1.741336	
0.25000	0.104130	1.406538	0.219704
0.001074	0.269706	3.426047	
0.50000	0.104130	2.319141	0.219704
0.001074	0.002290	4.013191	
0.75000	0.104130	3.085680	0.219704
0.001074	0.219937	3.231513	
1.00000	0.104130	4.090546	0.219704
0.001074	0.442525	1.686031	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.189209	-3.857982	-0.180687
-0.000514	-0.450707	-5.818781	
0.25000	-0.189209	-2.996459	-0.180687
-0.000514	-0.227378	-4.160916	
0.50000	-0.189209	-2.142261	-0.180687
-0.000514	-0.010779	-3.824584	
0.75000	-0.189209	-1.254583	-0.180687
-0.000514	-0.274630	-3.540734	
1.00000	-0.189209	-0.635716	-0.180687
-0.000514	-0.546084	-4.978990	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.110770	1.030828	0.245788
0.001332	0.598929	2.523254	
0.25000	0.110770	1.053393	0.245788
0.001332	0.295092	1.920798	
0.50000	0.110770	1.082727	0.245788
0.001332	0.002350	1.913491	
0.75000	0.110770	1.107366	0.245788
0.001332	0.266045	1.862451	
1.00000	0.110770	1.139665	0.245788
0.001332	0.542774	1.786961	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.189757	-0.326266	-0.223922
-0.000426	-0.564201	-5.503834	
0.25000	-0.189757	-0.298574	-0.223922
-0.000426	-0.287456	-5.338854	
0.50000	-0.189757	-0.271117	-0.223922
-0.000426	-0.015751	-5.222142	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4498

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.189757	-0.242585	-0.223922
-0.000426	-0.312351	-5.111175	
1.00000	-0.189757	-0.222693	-0.223922
-0.000426	-0.616176	-5.057800	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.145799	5.216063	0.248314
0.001277	0.611257	10.089118	
0.25000	0.145799	18.510638	0.248314
0.001277	0.310983	41.932786	
0.50000	0.145799	35.793052	0.248314
0.001277	0.026646	53.274697	
0.75000	0.145799	50.309386	0.248314
0.001277	0.280805	38.888180	
1.00000	0.145799	69.339033	0.248314
0.001277	0.564978	10.034925	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.184715	-67.797685	-0.240056
-0.000699	-0.621756	-51.288594	
0.25000	-0.184715	-51.482586	-0.240056
-0.000699	-0.325072	-22.868172	
0.50000	-0.184715	-35.306210	-0.240056
-0.000699	-0.038371	-19.371431	
0.75000	-0.184715	-18.495805	-0.240056
-0.000699	-0.322021	-16.772383	
1.00000	-0.184715	-6.776008	-0.240056
-0.000699	-0.628919	-46.731474	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.013800	0.397863	0.083978
0.000537	0.203666	0.755204	
0.25000	0.013800	0.422935	0.083978
0.000537	0.100064	0.802788	
0.50000	0.013800	0.455528	0.083978
0.000537	0.000690	0.811839	
0.75000	0.013800	0.482905	0.083978
0.000537	0.090297	0.775296	
1.00000	0.013800	0.518793	0.083978
0.000537	0.185816	0.712738	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112815	-0.307203	-0.077301
-8.18E-05	-0.196325	-2.415826	
0.25000	-0.112815	-0.276435	-0.077301
-8.18E-05	-0.100785	-2.307586	
0.50000	-0.112815	-0.245928	-0.077301
-8.18E-05	-0.007602	-2.248871	
0.75000	-0.112815	-0.214225	-0.077301
-8.18E-05	-0.107881	-2.193871	
1.00000	-0.112815	-0.192122	-0.077301
-8.18E-05	-0.211640	-2.200422	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.056173	6.255018	0.132889
0.000761	0.323435	11.534412	
0.25000	0.056173	24.457490	0.132889
0.000761	0.168288	55.709011	
0.50000	0.056173	48.119976	0.132889
0.000761	0.032985	71.527898	
0.75000	0.056173	67.995240	0.132889
0.000761	0.172120	51.847573	
1.00000	0.056173	94.049474	0.132889
0.000761	0.341373	12.360005	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126370	-92.574653	-0.150839
-7.30E-05	-0.404318	-66.065175	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4499

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.126370	-70.236583	-0.150839
-7.30E-05	-0.217895	-27.217104	
0.50000	-0.126370	-48.088447	-0.150839
-7.30E-05	-0.041488	-22.488942	
0.75000	-0.126370	-25.072221	-0.150839
-7.30E-05	-0.186434	-18.985572	
1.00000	-0.126370	-9.025839	-0.150839
-7.30E-05	-0.350711	-60.055227	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.104925	5.815533	0.222254
0.001162	0.544083	11.004063	
0.25000	0.104925	22.265454	0.222254
0.001162	0.277582	50.925168	
0.50000	0.104925	43.649692	0.222254
0.001162	0.030241	65.210281	
0.75000	0.104925	61.611345	0.222254
0.001162	0.257220	47.414079	
1.00000	0.104925	85.157504	0.222254
0.001162	0.512791	11.717694	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.165806	-83.734647	-0.219343
-0.000320	-0.571548	-61.128176	
0.25000	-0.165806	-63.547309	-0.219343
-0.000320	-0.300460	-25.944470	
0.50000	-0.165806	-43.531617	-0.219343
-0.000320	-0.029292	-21.598965	
0.75000	-0.165806	-22.731416	-0.219343
-0.000320	-0.295561	-18.358684	
1.00000	-0.165806	-8.230032	-0.219343
-0.000320	-0.570276	-55.404129	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.134829	4.607688	0.237480
0.001236	0.585259	8.945851	
0.25000	0.134829	15.401303	0.237480
0.001236	0.297077	34.449758	
0.50000	0.134829	29.432571	0.237480
0.001236	0.023484	43.677992	
0.75000	0.134829	41.218109	0.237480
0.001236	0.263832	31.997933	
1.00000	0.134829	56.667921	0.237480
0.001236	0.535160	8.572600	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.165224	-55.063770	-0.227758
-0.000869	-0.590782	-43.354279	
0.25000	-0.165224	-41.817849	-0.227758
-0.000869	-0.309293	-20.295344	
0.50000	-0.165224	-28.684553	-0.227758
-0.000869	-0.036705	-17.472657	
0.75000	-0.165224	-15.036502	-0.227758
-0.000869	-0.305489	-15.378559	
1.00000	-0.165224	-5.521419	-0.227758
-0.000869	-0.599030	-39.718102	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.069490	0.701798	0.096587
0.000399	0.243899	1.316666	
0.25000	0.069490	0.726870	0.096587
0.000399	0.124525	0.951345	
0.50000	0.069490	0.759463	0.096587
0.000399	0.005281	0.960166	
0.75000	0.069490	0.786839	0.096587
0.000399	0.098494	0.936014	
1.00000	0.069490	0.822727	0.096587
0.000399	0.203511	0.887992	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4500

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.044110	-0.148139	-0.084992
-0.001001	-0.216650	-3.481318	
0.25000	-0.044110	-0.117371	-0.084992
-0.001001	-0.111627	-3.459707	
0.50000	-0.044110	-0.086863	-0.084992
-0.001001	-0.010377	-3.485315	
0.75000	-0.044110	-0.055161	-0.084992
-0.001001	-0.114243	-3.512858	
1.00000	-0.044110	-0.033058	-0.084992
-0.001001	-0.233619	-3.603911	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139857	7.656589	0.143351
0.000564	0.362972	14.007718	
0.25000	0.139857	29.820481	0.143351
0.000564	0.197005	67.728281	
0.50000	0.139857	58.632653	0.143351
0.000564	0.044831	86.864037	
0.75000	0.139857	82.833387	0.143351
0.000564	0.170306	62.917952	
1.00000	0.139857	114.558436	0.143351
0.000564	0.333918	14.861036	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074435	-112.660184	-0.149310
-0.001118	-0.404201	-80.226849	
0.25000	-0.074435	-85.460662	-0.149310
-0.001118	-0.219671	-33.014490	
0.50000	-0.074435	-58.492407	-0.149310
-0.001118	-0.049452	-27.345293	
0.75000	-0.074435	-30.467140	-0.149310
-0.001118	-0.189487	-23.168017	
1.00000	-0.074435	-10.928620	-0.149310
-0.001118	-0.366648	-73.269112	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.116282	5.955184	0.187209
0.000944	0.464003	11.072446	
0.25000	0.116282	21.164027	0.187209
0.000944	0.240230	47.331344	
0.50000	0.116282	40.934913	0.187209
0.000944	0.032886	60.559514	
0.75000	0.116282	57.541435	0.187209
0.000944	0.221707	44.114717	
1.00000	0.116282	79.311135	0.187209
0.000944	0.448290	11.126035	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.118205	-77.299361	-0.194946
-0.001020	-0.515436	-58.428868	
0.25000	-0.118205	-58.635073	-0.194946
-0.001020	-0.274510	-26.034228	
0.50000	-0.118205	-40.129481	-0.194946
-0.001020	-0.044434	-22.146637	
0.75000	-0.118205	-20.898568	-0.194946
-0.001020	-0.244428	-19.282623	
1.00000	-0.118205	-7.491253	-0.194946
-0.001020	-0.475798	-53.661172	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.128325	5.112485	0.236303
0.001181	0.583979	9.695591	
0.25000	0.128325	17.692499	0.236303
0.001181	0.298219	39.660576	
0.50000	0.128325	34.046015	0.236303
0.001181	0.027508	50.588811	
0.75000	0.128325	47.782121	0.236303
0.001181	0.265082	36.982776	
1.00000	0.128325	65.788957	0.236303
0.001181	0.534785	9.987665	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4501

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.170072	-64.062192	-0.227830
-0.001036	-0.591510	-49.724345	
0.25000	-0.170072	-48.624001	-0.227830
-0.001036	-0.309937	-22.863061	
0.50000	-0.170072	-33.317076	-0.227830
-0.001036	-0.040939	-19.584610	
0.75000	-0.170072	-17.410201	-0.227830
-0.001036	-0.304050	-17.155095	
1.00000	-0.170072	-6.320322	-0.227830
-0.001036	-0.596084	-45.532730	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.153931	0.271317	0.200402
0.000626	0.495012	1.157505	
0.25000	0.153931	0.282402	0.200402
0.000626	0.247249	1.065609	
0.50000	0.153931	0.302352	0.200402
0.000626	0.000957	1.007685	
0.75000	0.153931	0.323571	0.200402
0.000626	0.242375	0.954340	
1.00000	0.153931	0.341244	0.200402
0.000626	0.489835	0.913789	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112136	-0.186635	-0.199911
-0.000301	-0.498423	-2.366529	
0.25000	-0.112136	-0.167595	-0.199911
-0.000301	-0.251112	-2.376957	
0.50000	-0.112136	-0.146073	-0.199911
-0.000301	-0.005308	-2.469865	
0.75000	-0.112136	-0.126785	-0.199911
-0.000301	-0.248017	-2.600560	
1.00000	-0.112136	-0.119872	-0.199911
-0.000301	-0.495661	-2.786737	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.161208	0.716814	0.327489
0.001031	0.804803	2.270580	
0.25000	0.161208	1.038272	0.327489
0.001031	0.399810	2.770080	
0.50000	0.161208	1.616819	0.327489
0.001031	0.001783	3.040668	
0.75000	0.161208	2.232163	0.327489
0.001031	0.418529	2.553932	
1.00000	0.161208	2.744701	0.327489
0.001031	0.848125	1.923951	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283850	-2.477454	-0.347716
-0.000443	-0.870332	-6.538987	
0.25000	-0.283850	-1.925298	-0.347716
-0.000443	-0.440331	-5.813870	
0.50000	-0.283850	-1.301162	-0.347716
-0.000443	-0.016479	-5.908266	
0.75000	-0.283850	-0.741794	-0.347716
-0.000443	-0.409374	-6.101641	
1.00000	-0.283850	-0.541316	-0.347716
-0.000443	-0.814402	-7.275362	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167829	1.175536	0.376172
0.001228	0.915799	3.521980	
0.25000	0.167829	1.185512	0.376172
0.001228	0.450015	2.901669	
0.50000	0.167829	1.203467	0.376172
0.001228	0.002539	2.536192	
0.75000	0.167829	1.222564	0.376172
0.001228	0.496356	2.431203	
1.00000	0.167829	1.238470	0.376172
0.001228	1.009562	2.395342	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4502

< MOVING LOAD >

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.277896	-0.321351	-0.415562
-0.000375	-1.043070	-8.839125	
0.25000	-0.277896	-0.304215	-0.415562
-0.000375	-0.529835	-9.270682	
0.50000	-0.277896	-0.284846	-0.415562
-0.000375	-0.027363	-9.863065	
0.75000	-0.277896	-0.267486	-0.415562
-0.000375	-0.476565	-10.630077	
1.00000	-0.277896	-0.261264	-0.415562
-0.000375	-0.942244	-11.520362	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.243271	4.851702	0.372709
0.001170	0.916168	8.659018	
0.25000	0.243271	12.608363	0.372709
0.001170	0.458998	25.630969	
0.50000	0.243271	26.568316	0.372709
0.001170	0.023633	34.172134	
0.75000	0.243271	41.416141	0.372709
0.001170	0.497767	23.256112	
1.00000	0.243271	53.783321	0.372709
0.001170	1.005485	8.079707	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.256258	-52.728617	-0.419603
-0.000645	-1.069920	-41.582475	
0.25000	-0.256258	-39.405463	-0.419603
-0.000645	-0.551642	-22.787322	
0.50000	-0.256258	-24.345487	-0.419603
-0.000645	-0.047320	-21.123799	
0.75000	-0.256258	-10.848346	-0.419603
-0.000645	-0.477035	-20.140512	
1.00000	-0.256258	-6.010932	-0.419603
-0.000645	-0.937687	-41.746750	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.013251	0.462168	0.128677
0.000479	0.311099	1.187141	
0.25000	0.013251	0.473253	0.128677
0.000479	0.151467	1.029874	
0.50000	0.013251	0.493203	0.128677
0.000479	0.000661	0.972154	
0.75000	0.013251	0.514422	0.128677
0.000479	0.182789	0.948871	
1.00000	0.013251	0.532096	0.128677
0.000479	0.374651	0.937561	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.186516	-0.256050	-0.155095
-6.26E-05	-0.391342	-3.867943	
0.25000	-0.186516	-0.237010	-0.155095
-6.26E-05	-0.199837	-3.973668	
0.50000	-0.186516	-0.215488	-0.155095
-6.26E-05	-0.014030	-4.187188	
0.75000	-0.186516	-0.196200	-0.155095
-6.26E-05	-0.469139	-4.469139	
1.00000	-0.186516	-0.189287	-0.155095
-6.26E-05	-0.324503	-4.807613	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.083457	6.099582	0.203806
0.000643	0.498960	9.483815	
0.25000	0.083457	17.905005	0.203806
0.000643	0.253319	36.039201	
0.50000	0.083457	39.151663	0.203806
0.000643	0.030766	49.600680	
0.75000	0.083457	61.749639	0.203806
0.000643	0.302116	33.017797	
1.00000	0.083457	80.572144	0.203806
0.000643	0.600361	9.819530	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4503

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.186246	-79.903117	-0.254740
-5.80E-05	-0.661327	-55.141012	
0.25000	-0.186246	-59.425848	-0.254740
-5.80E-05	-0.347408	-26.024612	
0.50000	-0.186246	-36.704785	-0.254740
-5.80E-05	-0.047091	-22.857980	
0.75000	-0.186246	-16.162512	-0.254740
-5.80E-05	-0.273929	-20.542982	
1.00000	-0.186246	-8.800102	-0.254740
-5.80E-05	-0.525836	-52.504322	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.142237	5.706769	0.335105
0.001041	0.822409	9.402887	
0.25000	0.142237	16.391508	0.335105
0.001041	0.413832	33.387805	
0.50000	0.142237	35.621230	0.335105
0.001041	0.028191	45.639430	
0.75000	0.142237	56.073990	0.335105
0.001041	0.483559	30.617251	
1.00000	0.142237	73.109682	0.335105
0.001041	0.928659	9.608380	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.265873	-72.412061	-0.388247
-0.000269	-0.992454	-52.198274	
0.25000	-0.265873	-54.059524	-0.388247
-0.000269	-0.513132	-25.816622	
0.50000	-0.265873	-33.314529	-0.388247
-0.000269	-0.048986	-22.946013	
0.75000	-0.265873	-14.722325	-0.388247
-0.000269	-0.435633	-20.861711	
1.00000	-0.265873	-8.058825	-0.388247
-0.000269	-0.849912	-49.869628	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.211880	4.379253	0.351944
0.001093	0.863999	7.985248	
0.25000	0.211880	10.822353	0.351944
0.001093	0.432441	21.890750	
0.50000	0.211880	22.418241	0.351944
0.001093	0.021895	28.887860	
0.75000	0.211880	34.751643	0.351944
0.001093	0.474882	19.778064	
1.00000	0.211880	45.024489	0.351944
0.001093	0.965463	7.148851	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.248763	-43.802559	-0.404481
-0.000814	-1.034847	-37.441710	
0.25000	-0.248763	-32.735631	-0.404481
-0.000814	-0.535450	-22.005386	
0.50000	-0.248763	-20.226004	-0.404481
-0.000814	-0.050634	-20.817176	
0.75000	-0.248763	-9.014552	-0.404481
-0.000814	-0.450219	-20.236508	
1.00000	-0.248763	-4.996336	-0.404481
-0.000814	-0.885362	-38.496413	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.134051	0.769268	0.126417
0.000346	0.315150	1.729385	
0.25000	0.134051	0.780353	0.126417
0.000346	0.159108	1.338024	
0.50000	0.134051	0.800303	0.126417
0.000346	0.006641	1.192873	
0.75000	0.134051	0.821522	0.126417
0.000346	0.160609	1.154717	
1.00000	0.134051	0.839195	0.126417
0.000346	0.338356	1.141197	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4504

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.053100	-0.097027	-0.143773
-0.001052	-0.372795	-5.681957	
0.25000	-0.053100	-0.077988	-0.143773
-0.001052	-0.195024	-6.139058	
0.50000	-0.053100	-0.056466	-0.143773
-0.001052	-0.022048	-6.705400	
0.75000	-0.053100	-0.037177	-0.143773
-0.001052	-0.154305	-7.390434	
1.00000	-0.053100	-0.030264	-0.143773
-0.001052	-0.310364	-8.149319	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.254777	8.464209	0.191755
0.000456	0.487782	12.594165	
0.25000	0.254777	25.224584	0.191755
0.000456	0.259908	50.419847	
0.50000	0.254777	55.388854	0.191755
0.000456	0.049150	69.721577	
0.75000	0.254777	87.471614	0.191755
0.000456	0.264401	46.229363	
1.00000	0.254777	114.194268	0.191755
0.000456	0.526004	13.330930	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.081181	-113.342252	-0.230115
-0.001103	-0.616662	-76.224368	
0.25000	-0.081181	-84.553959	-0.230115
-0.001103	-0.332628	-34.925115	
0.50000	-0.081181	-52.012789	-0.230115
-0.001103	-0.062278	-30.427886	
0.75000	-0.081181	-22.848548	-0.230115
-0.001103	-0.251734	-67.100870	
1.00000	-0.081181	-12.396000	-0.230115
-0.001103	-0.487252	-72.399680	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.210114	6.784056	0.268790
0.000767	0.665570	10.843736	
0.25000	0.210114	18.865493	0.268790
0.000767	0.340193	37.704571	
0.50000	0.210114	40.608904	0.268790
0.000767	0.037629	51.456550	
0.75000	0.210114	63.735227	0.268790
0.000767	0.375740	34.458877	
1.00000	0.210114	82.997807	0.268790
0.000767	0.760614	10.706192	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.154014	-81.694419	-0.325276
-0.001003	-0.849788	-60.209077	
0.25000	-0.154014	-60.942858	-0.325276
-0.001003	-0.448702	-30.650024	
0.50000	-0.154014	-37.486316	-0.325276
-0.001003	-0.063542	-28.088087	
0.75000	-0.154014	-16.463540	-0.325276
-0.001003	-0.350006	-26.274503	
1.00000	-0.154014	-8.928995	-0.325276
-0.001003	-0.681778	-59.562623	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209946	5.836216	0.342413
0.001022	0.844802	9.746036	
0.25000	0.209946	15.862512	0.342413
0.001022	0.427011	31.973169	
0.50000	0.209946	33.907209	0.342413
0.001022	0.031523	43.355325	
0.75000	0.209946	53.099574	0.342413
0.001022	0.469739	29.242061	
1.00000	0.209946	69.085448	0.342413
0.001022	0.952403	9.538810	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4505

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.260131	-67.928533	-0.401732
-0.000995	-1.035588	-52.244565	
0.25000	-0.260131	-50.706965	-0.401732
-0.000995	-0.539595	-27.861131	
0.50000	-0.260131	-31.240372	-0.401732
-0.000995	-0.060388	-25.627403	
0.75000	-0.260131	-13.759906	-0.401732
-0.000995	-0.439873	-24.161629	
1.00000	-0.260131	-7.541043	-0.401732
-0.000995	-0.863252	-51.844873	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.145799	7.656589	0.248314
0.001332	0.611257	14.007718	
0.25000	0.145799	29.820481	0.248314
0.001332	0.310983	67.728281	
0.50000	0.145799	58.632653	0.248314
0.001332	0.044831	86.864037	
0.75000	0.145799	82.833387	0.248314
0.001332	0.280805	62.917952	
1.00000	0.145799	114.558436	0.248314
0.001332	0.564978	14.861036	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.189757	-112.660184	-0.240056
-0.001118	-0.621756	-80.226849	
0.25000	-0.189757	-85.460662	-0.240056
-0.001118	-0.325072	-33.014490	
0.50000	-0.189757	-58.492407	-0.240056
-0.001118	-0.049452	-27.345293	
0.75000	-0.189757	-30.467140	-0.240056
-0.001118	-0.322021	-23.168017	
1.00000	-0.189757	-10.928620	-0.240056
-0.001118	-0.628919	-73.269112	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.254777	8.464209	0.376172
0.001228	0.916168	12.594165	
0.25000	0.254777	25.224584	0.376172
0.001228	0.458998	50.419847	
0.50000	0.254777	55.388854	0.376172
0.001228	0.049150	69.721577	
0.75000	0.254777	87.471614	0.376172
0.001228	0.497767	46.229363	
1.00000	0.254777	114.194268	0.376172
0.001228	1.009562	13.330930	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283850	-113.342252	-0.419603
-0.001103	-1.069920	-76.224368	
0.25000	-0.283850	-84.553959	-0.419603
-0.001103	-0.551642	-34.925115	
0.50000	-0.283850	-52.012789	-0.419603
-0.001103	-0.063542	-30.427886	
0.75000	-0.283850	-22.848548	-0.419603
-0.001103	-0.477035	-27.100870	
1.00000	-0.283850	-12.396000	-0.419603
-0.001103	-0.942244	-72.399680	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.254777	8.464209	0.376172
0.001332	0.916168	14.007718	
0.25000	0.254777	29.820481	0.376172
0.001332	0.458998	67.728281	
0.50000	0.254777	58.632653	0.376172
0.001332	0.049150	86.864037	
0.75000	0.254777	87.471614	0.376172
0.001332	0.497767	62.917952	
1.00000	0.254777	114.558436	0.376172
0.001332	1.009562	14.861036	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4506

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283850	-113.342252	-0.419603
-0.001118	-1.069920	-80.226849	
0.25000	-0.283850	-85.460662	-0.419603
-0.001118	-0.551642	-34.925115	
0.50000	-0.283850	-58.492407	-0.419603
-0.001118	-0.063542	-30.427886	
0.75000	-0.283850	-30.467140	-0.419603
-0.001118	-0.477035	-27.100870	
1.00000	-0.283850	-12.396000	-0.419603
-0.001118	-0.942244	-73.269112	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.254777	8.464209	0.376172
0.001332	0.916168	14.007718	
0.25000	0.254777	29.820481	0.376172
0.001332	0.458998	67.728281	
0.50000	0.254777	58.632653	0.376172
0.001332	0.049150	86.864037	
0.75000	0.254777	87.471614	0.376172
0.001332	0.497767	62.917952	
1.00000	0.254777	114.558436	0.376172
0.001332	1.009562	14.861036	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283850	-113.342252	-0.419603
-0.001118	-1.069920	-80.226849	
0.25000	-0.283850	-85.460662	-0.419603
-0.001118	-0.551642	-34.925115	
0.50000	-0.283850	-58.492407	-0.419603
-0.001118	-0.063542	-30.427886	
0.75000	-0.283850	-30.467140	-0.419603
-0.001118	-0.477035	-27.100870	
1.00000	-0.283850	-12.396000	-0.419603
-0.001118	-0.942244	-73.269112	

ELEM 438 ========== LENGTH = 3.459946

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.089687	0.118088	0.280821
0.000380	0.482337	0.735405	
0.25000	0.089687	0.142525	0.280821
0.000380	0.239462	0.731641	
0.50000	0.089687	0.173282	0.280821
0.000380	0.001952	0.699623	
0.75000	0.089687	0.198474	0.280821
0.000380	0.193725	0.635922	
1.00000	0.089687	0.217195	0.280821
0.000380	0.385424	0.549423	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.096688	-0.360641	-0.221652
-0.000599	-0.381491	-1.428406	
0.25000	-0.096688	-0.341946	-0.221652
-0.000599	-0.189765	-1.226450	
0.50000	-0.096688	-0.316776	-0.221652
-0.000599	-0.003306	-1.118830	
0.75000	-0.096688	-0.286016	-0.221652
-0.000599	-0.246393	-1.241990	
1.00000	-0.096688	-0.261245	-0.221652
-0.000599	-0.489289	-1.339544	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113404	0.962386	0.471607
0.000615	0.806877	1.746625	
0.25000	0.113404	1.648850	0.471607
0.000615	0.399834	2.910771	
0.50000	0.113404	2.510056	0.471607
0.000615	0.004705	3.280532	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4507

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.113404	3.215427	0.471607
0.000615	0.320448	2.757215	
1.00000	0.113404	3.739621	0.471607
0.000615	0.636904	1.472884	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.197124	-3.882390	-0.366519
-0.001069	-0.631511	-5.057100	
0.25000	-0.197124	-3.358938	-0.366519
-0.001069	-0.314468	-3.739454	
0.50000	-0.197124	-2.654177	-0.366519
-0.001069	-0.010469	-3.720639	
0.75000	-0.197124	-1.792899	-0.366519
-0.001069	-0.416993	-3.845304	
1.00000	-0.197124	-1.099310	-0.366519
-0.001069	-0.824920	-4.994292	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.119774	0.336599	0.549385
0.000496	0.936466	1.849056	
0.25000	0.119774	0.358664	0.549385
0.000496	0.461263	1.784110	
0.50000	0.119774	0.386346	0.549385
0.000496	0.004891	1.693770	
0.75000	0.119774	0.409018	0.549385
0.000496	0.356587	1.574915	
1.00000	0.119774	0.425668	0.549385
0.000496	0.719214	1.581154	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185840	-1.166094	-0.419253
-0.001324	-0.731397	-5.148404	
0.25000	-0.185840	-1.149269	-0.419253
-0.001324	-0.368751	-4.677247	
0.50000	-0.185840	-1.126616	-0.419253
-0.001324	-0.014701	-4.659872	
0.75000	-0.185840	-1.098332	-0.419253
-0.001324	-0.489191	-4.766079	
1.00000	-0.185840	-1.076638	-0.419253
-0.001324	-0.964399	-4.910038	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.154160	10.243917	0.548898
0.000756	0.920041	10.079472	
0.25000	0.154160	23.243843	0.548898
0.000756	0.462542	33.602037	
0.50000	0.154160	39.552924	0.548898
0.000756	0.027599	42.077251	
0.75000	0.154160	52.910882	0.548898
0.000756	0.360741	33.746256	
1.00000	0.154160	62.837813	0.548898
0.000756	0.721950	10.716326	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.182433	-64.062820	-0.430464
-0.001326	-0.772685	-46.808511	
0.25000	-0.182433	-54.149938	-0.430464
-0.001326	-0.400342	-26.000680	
0.50000	-0.182433	-40.803533	-0.430464
-0.001326	-0.049584	-26.749444	
0.75000	-0.182433	-24.493071	-0.430464
-0.001326	-0.504678	-26.701167	
1.00000	-0.182433	-11.358239	-0.430464
-0.001326	-0.979465	-45.915933	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.015130	0.316148	0.195268
0.000202	0.331512	0.733572	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4508

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.015130	0.340665	0.195268
0.000202	0.162612	0.737928	
0.50000	0.015130	0.371422	0.195268
0.000202	0.001949	0.715292	
0.75000	0.015130	0.396614	0.195268
0.000202	0.123134	0.663169	
1.00000	0.015130	0.415335	0.195268
0.000202	0.244553	0.584514	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.105420	-0.573299	-0.140369
-0.000531	-0.241132	-2.231409	
0.25000	-0.105420	-0.554228	-0.140369
-0.000531	-0.120962	-2.031844	
0.50000	-0.105420	-0.529434	-0.140369
-0.000531	-0.007429	-2.076777	
0.75000	-0.105420	-0.498674	-0.140369
-0.000531	-0.175232	-2.139699	
1.00000	-0.105420	-0.473903	-0.140369
-0.000531	-0.344133	-2.243902	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.059205	13.710853	0.325396
0.000103	0.528292	12.385438	
0.25000	0.059205	31.509904	0.325396
0.000103	0.268504	44.668183	
0.50000	0.059205	53.839735	0.325396
0.000103	0.034497	56.349422	
0.75000	0.059205	72.128990	0.325396
0.000103	0.201225	44.668887	
1.00000	0.059205	85.720601	0.325396
0.000103	0.399704	12.978916	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112279	-86.725070	-0.247101
-0.000753	-0.462447	-60.093711	
0.25000	-0.112279	-73.152695	-0.247101
-0.000753	-0.248711	-33.190806	
0.50000	-0.112279	-54.879257	-0.247101
-0.000753	-0.057830	-33.064642	
0.75000	-0.112279	-32.547539	-0.247101
-0.000753	-0.318558	-32.954977	
1.00000	-0.112279	-14.563778	-0.247101
-0.000753	-0.600034	-59.214005	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.112515	12.476071	0.511364
0.000376	0.848305	11.769397	
0.25000	0.112515	28.561412	0.511364
0.000376	0.427387	40.906389	
0.50000	0.112515	48.741304	0.511364
0.000376	0.032707	51.425400	
0.75000	0.112515	65.269652	0.511364
0.000376	0.329846	41.012765	
1.00000	0.112515	77.552650	0.511364
0.000376	0.655698	12.144414	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.159531	-78.527379	-0.392639
-0.001143	-0.709312	-55.475310	
0.25000	-0.159531	-66.261765	-0.392639
-0.001143	-0.369672	-31.037627	

0.50000 -0.159531 -49.747712 -0.392639
-0.001143 -0.055599 -30.909301
0.75000 -0.159531 -29.566112 -0.392639
-0.001143 -0.479107 -30.868493
1.00000 -0.159531 -13.313847 -0.392639
-0.001143 -0.921426 -54.658516
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4509

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.141007	8.363690	0.520963
0.000929	0.876273	8.599958	
0.25000	0.141007	18.918086	0.520963
0.000929	0.439690	27.684040	
0.50000	0.141007	32.159122	0.520963
0.000929	0.023717	34.551867	
0.75000	0.141007	43.004197	0.520963
0.000929	0.339170	27.685265	
1.00000	0.141007	51.063685	0.520963
0.000929	0.678948	9.090127	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.161205	-52.378436	-0.403261
-0.001287	-0.720579	-39.785495	
0.25000	-0.161205	-44.330354	-0.403261
-0.001287	-0.371753	-23.521691	
0.50000	-0.161205	-33.494658	-0.403261
-0.001287	-0.045594	-23.409087	
0.75000	-0.161205	-20.252501	-0.403261
-0.001287	-0.475940	-23.369794	
1.00000	-0.161205	-9.588578	-0.403261
-0.001287	-0.926563	-38.970149	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.068973	0.063214	0.181159
0.000996	0.315046	0.860345	
0.25000	0.068973	0.087731	0.181159
0.000996	0.158370	0.877492	
0.50000	0.068973	0.118488	0.181159
0.000996	0.002200	0.869641	
0.75000	0.068973	0.143680	0.181159
0.000996	0.127942	0.842927	
1.00000	0.068973	0.162401	0.181159
0.000996	0.259089	0.795739	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.047083	-0.812292	-0.151642
-0.000488	-0.265594	-3.609636	
0.25000	-0.047083	-0.793597	-0.151642
-0.000488	-0.134430	-3.365458	
0.50000	-0.047083	-0.768427	-0.151642
-0.000488	-0.009701	-3.353920	
0.75000	-0.047083	-0.737667	-0.151642
-0.000488	-0.155046	-3.343606	
1.00000	-0.047083	-0.712896	-0.151642
-0.000488	-0.311755	-3.369668	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.138619	16.562422	0.294415
0.001136	0.478237	14.832752	
0.25000	0.138619	38.235096	0.294415
0.001136	0.252430	54.169664	
0.50000	0.138619	65.424586	0.294415
0.001136	0.041516	68.427869	
0.75000	0.138619	87.694148	0.294415
0.001136	0.206651	54.593643	
1.00000	0.138619	104.243714	0.294415
0.001136	0.404236	15.866248	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.078125	-105.667119	-0.250025
-0.000681	-0.469698	-73.274925	
0.25000	-0.078125	-89.140976	-0.250025
-0.000681	-0.253430	-40.557206	
0.50000	-0.078125	-66.890674	-0.250025
-0.000681	-0.068826	-40.337118	
0.75000	-0.078125	-39.698882	-0.250025
-0.000681	-0.286298	-40.118454	
1.00000	-0.078125	-17.801303	-0.250025
-0.000681	-0.540951	-72.003634	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4510

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.117501	11.392296	0.408373
0.001010	0.678508	11.114087	
0.25000	0.117501	26.264065	0.408373
0.001010	0.345067	38.069347	
0.50000	0.117501	44.921469	0.408373
0.001010	0.030732	47.811152	
0.75000	0.117501	60.202821	0.408373
0.001010	0.389024	38.200332	
1.00000	0.117501	71.559118	0.408373
0.001010	0.528034	11.581426	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.108610	-73.175563	-0.321193
-0.001011	-0.589452	-53.694427	
0.25000	-0.108610	-61.835338	-0.321193
-0.001011	-0.311629	-31.012477	
0.50000	-0.108610	-46.567202	-0.321193
-0.001011	-0.057265	-30.880061	
0.75000	-0.108610	-27.998218	-0.321193
-0.001011	-0.381567	-30.748756	
1.00000	-0.108610	-12.882119	-0.321193
-0.001011	-0.734797	-52.646904	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.132871	9.616458	0.514438
0.001074	0.863527	9.699791	
0.25000	0.132871	21.917661	0.514438
0.001074	0.434911	31.964603	
0.50000	0.132871	37.350158	0.514438
0.001074	0.026769	39.991305	
0.75000	0.132871	49.990149	0.514438
0.001074	0.337226	32.010459	
1.00000	0.132871	59.383526	0.514438
0.001074	0.674658	9.976400	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.161373	-60.724713	-0.402357
-0.001241	-0.722578	-45.589166	
0.25000	-0.161373	-51.344631	-0.402357
-0.001241	-0.374549	-26.720831	
0.50000 -0.161373 -38.715572 -0.402357
-0.001241 -0.051280 -26.618923
0.75000 -0.161373 -23.281769 -0.402357
-0.001241 -0.471763 -26.567565
1.00000 -0.161373 -10.852911 -0.402357
-0.001241 -0.916727 -44.741685

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.164361	0.176227	0.416119
0.000337	0.715356	0.959427	
0.25000	0.164361	0.181169	0.416119
0.000337	0.355347	0.911976	
0.50000	0.164361	0.199398	0.416119
0.000337	0.002499	0.867249	
0.75000	0.164361	0.218793	0.416119
0.000337	0.345306	0.816277	
1.00000	0.164361	0.236038	0.416119
0.000337	0.690502	0.779696	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.123326	-0.389151	-0.399392
-0.000597	-0.689423	-2.827488	
0.25000	-0.123326	-0.371900	-0.399392
-0.000597	-0.344284	-2.644388	
0.50000	-0.123326	-0.352493	-0.399392
-0.000597	-0.006017	-2.490179	
0.75000	-0.123326	-0.334254	-0.399392
-0.000597	-0.364301	-2.350107	
1.00000	-0.123326	-0.329270	-0.399392
-0.000597	-0.724390	-2.251564	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4511

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.172223	0.861664	0.710320
0.000535	1.216101	1.998528	
0.25000	0.172223	1.004174	0.710320
0.000535	0.602113	2.314369	
0.50000	0.172223	1.533617	0.710320
0.000535	0.004856	2.479584	
0.75000	0.172223	2.096064	0.710320
0.000535	0.576176	2.120910	
1.00000	0.172223	2.596182	0.710320
0.000535	1.155316	1.629518	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.298147	-2.748923	-0.670460
-0.001017	-1.161269	-7.338698	
0.25000	-0.298147	-2.248650	-0.670460
-0.001017	-0.581911	-6.557998	
0.50000	-0.298147	-1.685835	-0.670460
-0.001017	-0.018844	-6.342359	
0.75000	-0.298147	-1.156904	-0.670460
-0.001017	-0.626757	-6.148434	
1.00000	-0.298147	-1.012372	-0.670460
-0.001017	-1.241572	-6.552463	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.173539	0.489752	0.838694
0.000445	1.430746	2.474165	
0.25000	0.173539	0.494200	0.838694
0.000445	0.704657	2.322786	
0.50000	0.173539	0.510606	0.838694
0.000445	0.005863	2.212696	
0.75000	0.173539	0.528061	0.838694
0.000445	0.667646	2.222644	
1.00000	0.173539	0.543582	0.838694
0.000445	1.346665	2.442411	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283470	-1.296991	-0.785367
-0.001202	-1.366127	-11.584868	
0.25000	-0.283470	-1.281465	-0.785367
-0.001202	-0.687272	-10.974202	
0.50000	-0.283470	-1.263935	-0.785367
-0.001202	-0.029821	-10.433295	
0.75000	-0.283470	-1.247583	-0.785367
-0.001202	-0.743833	-9.973895	
1.00000	-0.283470	-1.243098	-0.785367
-0.001202	-1.470073	-9.618407	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251324	9.350583	0.825296
0.000691	1.396669	8.137028	
0.25000	0.251324	12.808560	0.825296
0.000691	0.684956	11.260935	
0.50000	0.251324	25.564349	0.825296
0.000691	0.023773	25.517161	
0.75000	0.251324	39.135797	0.825296
0.000691	0.650181	19.269899	
1.00000	0.251324	51.203302	0.825296
0.000691	1.307432	8.568772	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261240	-52.459629	-0.771471
-0.001215	-1.361826	-41.757629	
0.25000	-0.261240	-40.388380	-0.771471
-0.001215	-0.695193	-28.327577	
0.50000	-0.261240	-26.808040	-0.771471
-0.001215	-0.053728	-27.501266	
0.75000	-0.261240	-14.045300	-0.771471
-0.001215	-0.745223	-26.820095	
1.00000	-0.261240	-10.557863	-0.771471
-0.001215	-1.459371	-38.756610	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4512

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.014561	0.323941	0.305719
0.000170	0.519073	0.965033	
0.25000	0.014561	0.328883	0.305719
0.000170	0.254561	0.904468	
0.50000	0.014561	0.347112	0.305719
0.000170	0.002229	0.861186	
0.75000	0.014561	0.366507	0.305719
0.000170	0.236060	0.807277	
1.00000	0.014561	0.383752	0.305719
0.000170	0.476922	0.792868	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.188000	-0.531065	-0.278405
-0.000456	-0.484893	-4.828372	
0.25000	-0.188000	-0.513814	-0.278405
-0.000456	-0.244030	-4.639897	
0.50000 -0.188000 -0.494406 -0.278405
-0.000456 -0.015371 -4.496200
0.75000 -0.188000 -0.476167 -0.278405
-0.000456 -0.273748 -4.361155
1.00000 -0.188000 -0.471184 -0.278405
-0.000456 -0.538425 -4.308437

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.084520	13.679762	0.490709
8.00E-05	0.812742	9.851966	
0.25000	0.084520	18.942706	0.490709
8.00E-05	0.406798	26.762872	
0.50000	0.084520	38.356662	0.490709
8.00E-05	0.030150	36.726336	
0.75000	0.084520	59.012028	0.490709
8.00E-05	0.374500	26.927500	
1.00000	0.084520	77.378434	0.490709
8.00E-05	0.747711	10.256488	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.182203	-78.407126	-0.448763
-0.000630	-0.809055	-52.523315	
0.25000	-0.182203	-60.035022	-0.448763
-0.000630	-0.421024	-32.716461	
0.50000	-0.182203	-39.366123	-0.448763
-0.000630	-0.056622	-32.071570	
0.75000	-0.182203	-19.941557	-0.448763
-0.000630	-0.461693	-31.544119	
1.00000	-0.182203	-14.633806	-0.448763
-0.000630	-0.886514	-50.148386	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.149278	12.532257	0.767630
0.000322	1.290514	9.672893	
0.25000	0.149278	17.295591	0.767630
0.000322	0.643107	24.928642	
0.50000	0.149278	34.866589	0.767630
0.000322	0.029036	33.897176	
0.75000	0.149278	53.561150	0.767630
0.000322	0.602207	24.970308	
1.00000	0.149278	70.184041	0.767630
0.000322	1.204440	9.827546	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.269823	-71.160367	-0.712185
-0.001023	-1.261602	-49.917159	
0.25000	-0.269823	-54.532319	-0.712185
-0.001023	-0.646002	-31.914103	
0.50000	-0.269823	-35.825510	-0.712185
-0.001023	-0.058419	-31.255627	
0.75000	-0.269823	-18.244937	-0.712185
-0.001023	-0.702362	-30.704018	
1.00000	-0.269823	-13.441021	-0.712185
-0.001023	-1.346646	-47.466930	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4513

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.219319	7.809452	0.784606
0.000867	1.328544	7.188032	
0.25000	0.219319	10.681833	0.784606
0.000867	0.659814	16.277827	
0.50000	0.219319	21.277478	0.784606
0.000867	0.020717	21.653092	
0.75000	0.219319	32.550653	0.784606
0.000867	0.606940	16.476367	
1.00000	0.219319	42.574572	0.784606
0.000867	1.225598	7.692261	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.252176	-43.894952	-0.724884
-0.001176	-1.281705	-38.519238	
0.25000	-0.252176	-33.867923	-0.724884
-0.001176	-0.655037	-27.164170	
0.50000	-0.252176	-22.587362	-0.724884
-0.001176	-0.055285	-26.311835	
0.75000	-0.252176	-11.985943	-0.724884
-0.001176	-0.707509	-25.604707	
1.00000	-0.252176	-9.089091	-0.724884
-0.001176	-1.386632	-35.385124	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.134598	0.092134	0.255342
0.001018	0.439600	1.107815	
0.25000	0.134598	0.097076	0.255342
0.001018	0.218942	1.061722	
0.50000	0.134598	0.115305	0.255342
0.001018	0.002558	1.064927	
0.75000	0.134598	0.134699	0.255342
0.001018	0.187288	1.092038	
1.00000	0.134598	0.151945	0.255342
0.001018	0.387883	1.223918	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.053466	-0.812301	-0.232331
-0.000430	-0.414031	-6.118368	
0.25000	-0.053466	-0.795050	-0.232331
-0.000430	-0.213498	-7.646969	
0.50000	-0.053466	-0.775643	-0.232331
-0.000430	-0.019313	-7.209022	
0.75000	-0.053466	-0.757404	-0.232331
-0.000430	-0.223003	-6.828312	
1.00000	-0.053466	-0.742420	-0.232331
-0.000430	-0.443665	-6.513272	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257654	19.188048	0.409637
0.001134	0.675542	13.295276	
0.25000	0.257654	26.659945	0.409637
0.001134	0.348533	37.362899	
0.50000	0.257654	54.222294	0.409637
0.001134	0.041365	51.549696	
0.75000	0.257654	83.547096	0.409637
0.001134	0.305383	37.747553	
1.00000	0.257654	109.622219	0.409637
0.001134	0.608771	14.093945	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.081153	-111.127178	-0.375549
-0.000564	-0.697815	-72.360350	
0.25000	-0.081153	-85.043966	-0.375549
-0.000564	-0.373912	-44.248815	
0.50000	-0.081153	-55.699951	-0.375549
-0.000564	-0.070440	-43.321413	
0.75000	-0.081153	-28.122582	-0.375549
-0.000564	-0.391303	-42.557946	
1.00000	-0.081153	-20.587028	-0.375549
-0.000564	-0.744997	-68.923716	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4514

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.212294	13.909175	0.601845
0.001008	1.006862	10.693135	
0.25000	0.212294	19.295568	0.601845
0.001008	0.505356	28.016250	
0.50000	0.212294	39.163428	0.601845
0.001008	0.032275	38.213514	
0.75000	0.212294	60.301723	0.601845
0.001008	0.448865	28.202896	
1.00000	0.212294	79.097540	0.601845
0.001008	0.907040	11.312261	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.149638	-80.745120	-0.547800
-0.000841	-0.991403	-59.541279	
0.25000	-0.149638	-61.943471	-0.547800
-0.000841	-0.518085	-38.910260	
0.50000	-0.149638	-40.791328	-0.547800
-0.000841	-0.069883	-37.876114	
0.75000	-0.149638	-20.912641	-0.547800
-0.000841	-0.556339	-37.011647	
1.00000	-0.149638	-15.480762	-0.547800
-0.000841	-1.076793	-55.732507	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.215296	11.766335	0.765384
0.001036	1.290270	9.555525	
0.25000	0.215296	16.236130	0.765384
0.001036	0.643940	23.868407	
0.50000	0.215296	32.724321	0.765384
0.001036	0.028328	32.290335	
0.75000	0.215296	50.266837	0.765384
0.001036	0.584998	23.944738	
1.00000	0.215296	65.865348	0.765384
0.001036	1.179764	9.907837	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.260957	-67.225884	-0.702769
-0.001077	-1.253114	-51.857839	
0.25000	-0.260957	-51.622534	-0.702769
-0.001077	-0.645744	-34.656755	
0.50000	-0.260957	-34.068526	-0.702769
-0.001077	-0.066570	-33.761872	
0.75000	-0.260957	-17.571350	-0.702769
-0.001077	-0.696891	-33.029136	
1.00000	-0.260957	-13.063473	-0.702769
-0.001077	-1.359154	-48.582593	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.154160	16.562422	0.549385
0.001136	0.936666	14.832752	
0.25000	0.154160	38.235096	0.549385
0.001136	0.462542	54.169664	
0.50000	0.154160	65.424586	0.549385
0.001136	0.041516	68.427869	
0.75000	0.154160	87.694148	0.549385
0.001136	0.360741	54.593643	
1.00000	0.154160	104.243714	0.549385
0.001136	0.721950	15.866248	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.197124	-105.667119	-0.430464
-0.001326	-0.772685	-73.274925	
0.25000	-0.197124	-89.140976	-0.430464
-0.001326	-0.400342	-40.557206	
0.50000	-0.197124	-66.890674	-0.430464
-0.001326	-0.068826	-40.337118	
0.75000	-0.197124	-39.698882	-0.430464
-0.001326	-0.504678	-40.118454	
1.00000	-0.197124	-17.801303	-0.430464
-0.001326	-0.979465	-72.003634	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4515

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257654	19.188048	0.838694
0.001134	1.430746	13.295276	
0.25000	0.257654	26.659945	0.838694
0.001134	0.704657	37.362899	
0.50000	0.257654	54.222294	0.838694
0.001134	0.041365	51.549696	
0.75000	0.257654	83.547096	0.838694
0.001134	0.667646	37.747553	
1.00000	0.257654	109.622219	0.838694
0.001134	1.346665	14.093945	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.298147	-111.127178	-0.785367
-0.001215	-1.366127	-72.360350	
0.25000	-0.298147	-85.043966	-0.785367
-0.001215	-0.695193	-44.248815	
0.50000	-0.298147	-55.699951	-0.785367
-0.001215	-0.070440	-43.321413	
0.75000	-0.298147	-28.122582	-0.785367
-0.001215	-0.745223	-42.557946	
1.00000	-0.298147	-20.587028	-0.785367
-0.001215	-1.470073	-68.923716	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257654	19.188048	0.838694
0.001136	1.430746	14.832752	
0.25000	0.257654	38.235096	0.838694
0.001136	0.704657	54.169664	
0.50000	0.257654	65.424586	0.838694
0.001136	0.041516	68.427869	
0.75000	0.257654	87.694148	0.838694
0.001136	0.667646	54.593643	
1.00000	0.257654	109.622219	0.838694
0.001136	1.346665	15.866248	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.298147	-111.127178	-0.785367
-0.001326	-1.366127	-73.274925	
0.25000	-0.298147	-89.140976	-0.785367
-0.001326	-0.695193	-44.248815	
0.50000	-0.298147	-66.890674	-0.785367
-0.001326	-0.070440	-43.321413	
0.75000	-0.298147	-39.698882	-0.785367
-0.001326	-0.745223	-42.557946	
1.00000	-0.298147	-20.587028	-0.785367
-0.001326	-1.470073	-72.003634	

COMB DESIGN ---------- MAX

```
REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.257654   19.188048    0.838694
0.001136   1.430746   14.832752
0.25000    0.257654   38.235096    0.838694
0.001136   0.704657   54.169664
0.50000    0.257654   65.424586    0.838694
0.001136   0.041516   68.427869
0.75000    0.257654   87.694148    0.838694
0.001136   0.667646   54.593643
1.00000    0.257654  109.622219    0.838694
0.001136   1.346665   15.866248

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.298147 -111.127178   -0.785367
-0.001326  -1.366127  -73.274925
0.25000   -0.298147  -89.140976   -0.785367
-0.001326  -0.695193  -44.248815
0.50000   -0.298147  -66.890674   -0.785367
-0.001326  -0.070440  -43.321413
0.75000   -0.298147  -39.698882   -0.785367
-0.001326  -0.745223  -42.557946
1.00000   -0.298147  -20.587028   -0.785367
-0.001326  -1.470073  -72.003634
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                                   4516

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      439 ================== LENGTH
=     4.943169

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.086401    0.137641    0.151859
3.88E-07   0.086006    0.587707
0.25000    0.086401    0.159717    0.151859
3.88E-07   0.180355    0.557097
0.50000    0.086401    0.191399    0.151859
3.88E-07   0.005300    0.502946
0.75000    0.086401    0.221888    0.151859
3.88E-07   0.150347    0.612586
1.00000    0.086401    0.252698    0.151859
3.88E-07   0.295291    0.748900

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.099904   -0.342176   -0.117302
-0.000661  -0.284573   -1.319032
0.25000   -0.099904   -0.306252   -0.117302
-0.000661  -0.139602   -1.390862
0.50000   -0.099904   -0.278890   -0.117302
-0.000661  -0.007090   -1.525765
0.75000   -0.099904   -0.246318   -0.117302
-0.000661  -0.195005   -1.664930
1.00000   -0.099904   -0.221254   -0.117302
-0.000661  -0.382671   -1.852112

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.115599    0.529535    0.257872
3.89E-07   0.623850    1.528901
0.25000    0.115599    1.147664    0.257872
3.89E-07   0.305571    2.886616
0.50000    0.115599    2.034757    0.257872
3.89E-07   0.010037    3.523945
0.75000    0.115599    2.888428    0.257872
3.89E-07   0.249116    3.394325
1.00000    0.115599    3.751114    0.257872
3.89E-07   0.488301    2.360291

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.164938   -4.230943   -0.193914
-0.001219  -0.470772   -4.958344
0.25000   -0.164938   -3.225054   -0.193914
-0.001219  -0.231120   -3.526043
0.50000   -0.164938   -2.458929   -0.193914
-0.001219  -0.013791   -3.807924
0.75000   -0.164938   -1.546924   -0.193914
-0.001219  -0.332569   -4.142266
1.00000   -0.164938   -0.845135   -0.193914
-0.001219  -0.651253   -5.788980

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.147570    0.225721    0.304297
3.50E-07   0.735083    1.622144
0.25000    0.147570    0.245589    0.304297
3.50E-07   0.359042    1.801019
0.50000    0.147570    0.274103    0.304297
3.50E-07   0.010670    2.175011
0.75000    0.147570    0.301543    0.304297
3.50E-07   0.270360    3.128666
1.00000    0.147570    0.329272    0.304297
3.50E-07   0.530557    4.314399

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.151304   -1.314337   -0.210487
-0.001492  -0.509919   -4.861698
0.25000   -0.151304   -1.282005   -0.210487
-0.001492  -0.249775   -4.898555
0.50000   -0.151304   -1.257380   -0.210487
-0.001492  -0.016843   -4.993975
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                                   4517

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
0.75000   -0.151304   -1.228065   -0.210487
-0.001492  -0.393081   -5.093382
1.00000   -0.151304   -1.205508   -0.210487
-0.001492  -0.769120   -5.237428

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.164160    6.844784    0.303941
0.000401   0.729507   10.746849
0.25000    0.164160   18.550593    0.303941
0.000401   0.361472   39.623034
0.50000    0.164160   35.349924    0.303941
0.000401   0.034359   54.370017
0.75000    0.164160   51.516313    0.303941
0.000401   0.272098   43.904339
1.00000    0.164160   67.853433    0.303941
0.000401   0.518241   12.586133

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.155887   -69.470649   -0.206170
-0.001237  -0.510621   -45.873121
0.25000   -0.155887   -50.421626   -0.206170
-0.001237  -0.256195   -16.054925
0.50000   -0.155887   -35.913123   -0.206170
-0.001237  -0.038031   -18.651992
0.75000   -0.155887   -18.642031   -0.206170
-0.001237  -0.404959   -22.191364
1.00000   -0.155887   -5.351908    -0.206170
-0.001237  -0.780548   -50.552793

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.028950    0.079505    0.109926
4.27E-06   0.265042    0.606511
0.25000    0.028950    0.101581    0.109926
4.27E-06   0.129215    0.581311
0.50000    0.028950    0.133263    0.109926
4.27E-06   0.003679    0.826908
0.75000    0.028950    0.163751    0.109926
4.27E-06   0.096222    1.311071
1.00000    0.028950    0.194561    0.109926
4.27E-06   0.188722    1.854381

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.056933   -0.680337   -0.074848
-0.000616  -0.161264   -2.225656
0.25000   -0.056933   -0.644415   -0.074848
-0.000616  -0.088799   -2.155456
0.50000   -0.056933   -0.617051   -0.074848
-0.000616  -0.006533   -2.148028
0.75000   -0.056933   -0.584479   -0.074848
-0.000616  -0.142476   -2.143128
1.00000   -0.056933   -0.559416   -0.074848
-0.000616  -0.278332   -2.185545

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.086519    9.058898    0.188867
3.89E-07   0.446958   12.975157
0.25000    0.086519   25.085999    0.188867
3.89E-07   0.223939   52.567182
0.50000    0.086519   48.087063    0.188867
3.89E-07   0.037252   72.625497
0.75000    0.086519   70.221525    0.188867
3.89E-07   0.152191   57.887946
1.00000    0.086519   92.589745    0.188867
3.89E-07   0.275406   13.960480

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.067049   -94.187620   -0.109289
-0.000854  -0.278146   -59.191937
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                                   4518

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
0.25000   -0.067049   -68.106356   -0.109289
-0.000854  -0.143050   -18.263812
0.50000   -0.067049   -48.241813   -0.109289
-0.000854  -0.038581   -21.715958
0.75000   -0.067049   -24.594831   -0.109289
-0.000854  -0.263724   -26.455114
1.00000   -0.067049   -6.398453    -0.109289
-0.000854  -0.497085   -65.178782

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.137098    8.253727    0.288865
3.50E-07   0.690186   12.170427
0.25000    0.137098   22.737803    0.288865
3.50E-07   0.342584   47.886714
0.50000    0.137098   43.524302    0.288865
3.50E-07   0.037710   65.953247
0.75000    0.137098   63.527636    0.288865
3.50E-07   0.252881   52.556241
1.00000    0.137098   83.742222    0.288865
3.50E-07   0.475459   13.220175

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.124900   -85.302336   -0.188752
-0.001295  -0.469606   -54.622345
0.25000   -0.124900   -61.732201   -0.188752
-0.001295  -0.236296   -17.715901
0.50000   -0.124900   -43.780237   -0.188752
-0.001295  -0.040605   -20.917076
0.75000   -0.124900   -22.410009   -0.188752
-0.001295  -0.390232   -25.281534
1.00000   -0.124900   -5.965596    -0.188752
-0.001295  -0.747171   -60.359043

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.152537    5.557869    0.286314
0.000697   0.688515    9.110130
0.25000    0.152537   15.061595    0.286314
0.000697   0.340788   32.718333
0.50000    0.152537   28.700656    0.286314
0.000697   0.029740   44.934828
0.75000    0.152537   41.825843    0.286314
0.000697   0.254500   36.793894
1.00000    0.152537   55.089643    0.286314
0.000697   0.487522   11.839358

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.140137   -56.841764   -0.194228
-0.001084  -0.480475   -38.926582
0.25000   -0.140137   -41.376221   -0.194228
-0.001084  -0.240411   -14.664369
0.50000   -0.140137   -29.597040   -0.194228
-0.001084  -0.034660   -16.719234
0.75000   -0.140137   -15.574965   -0.194228
-0.001084  -0.379128   -19.537431
1.00000   -0.140137   -4.784964    -0.194228
-0.001084  -0.732975   -42.508390

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.062037    0.089213    0.089908
0.001151   0.220377    0.769241
0.25000    0.062037    0.111289    0.089908
0.001151   0.109285    0.997690
0.50000    0.062037    0.142971    0.089908
0.001151   0.003946    1.518757
0.75000    0.062037    0.173459    0.089908
0.001151   0.090704    2.190786
1.00000    0.062037    0.204269    0.089908
0.001151   0.180859    2.914163
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                                   4519

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.063891   -0.895665   -0.072963
-1.16E-05  -0.179829   -3.352731
0.25000   -0.063891   -0.859741   -0.072963
-1.16E-05  -0.089660   -3.221452
0.50000   -0.063891   -0.832379   -0.072963
-1.16E-05  -0.007825   -3.151338
0.75000   -0.063891   -0.799808   -0.072963
-1.16E-05  -0.112982   -3.083015
1.00000   -0.063891   -0.774744   -0.072963
-1.16E-05  -0.224088   -3.061508

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.114888   11.071780    0.157805
0.001278   0.374718   15.855070
0.25000    0.114888   30.586981    0.157805
0.001278   0.192353   64.062853
0.50000    0.114888   58.593786    0.157805
0.001278   0.044735   88.523604
0.75000    0.114888   85.545390    0.157805
0.001278   0.148368   70.187948
1.00000    0.114888  112.781625    0.157805
0.001278   0.268313   16.751774

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.093694  -114.588711   -0.108825
-0.000124  -0.285855   -71.987699
0.25000   -0.093694   -82.831359   -0.108825
-0.000124  -0.151352   -22.108076
0.50000   -0.093694   -58.643680   -0.108825
-0.000124  -0.045234   -26.264768
0.75000   -0.093694   -29.850384   -0.108825
-0.000124  -0.223044   -31.988644
1.00000   -0.093694    -7.693913   -0.108825
-0.000124  -0.418061   -79.090781

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.132526    7.629608    0.223057
0.001163   0.534251   11.563459
0.25000    0.132526   21.020921    0.223057
0.001163   0.267258   44.964515
0.50000    0.132526   40.231166    0.223057
0.001163   0.034542   62.293516
0.75000    0.132526   58.733332    0.223057
0.001163   0.192481   50.474970
1.00000    0.132526   77.422811    0.223057
0.001163   0.361118   14.685735

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.099289   -79.453599   -0.144449
-0.000587  -0.364036   -52.613728
0.25000   -0.099289   -57.661733   -0.144449
-0.000587  -0.165487   -18.311606
0.50000   -0.099289   -41.064169   -0.144449
-0.000587  -0.039190   -21.130652
0.75000   -0.099289   -21.306236   -0.144449
-0.000587  -0.301480   -25.005011
1.00000   -0.099289    -6.102485   -0.144449
-0.000587  -0.577097   -57.274494

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.147181    6.358109    0.281358
0.000969   0.676288    9.985054
0.25000    0.147181   17.434752    0.281358
0.000969   0.335728   37.555308
0.50000    0.147181   33.331149    0.281358
0.000969   0.031922   51.828958
0.75000    0.147181   48.628623    0.281358
0.000969   0.251739   42.237862
1.00000    0.147181   64.087551    0.281358
0.000969   0.480347   12.930341
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                                   4520

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.137140   -65.985625   -0.191606
-0.000954  -0.475989   -44.700364
0.25000   -0.137140   -47.960454   -0.191606
-0.000954  -0.239177   -16.384271
0.50000   -0.137140   -34.231757   -0.191606
-0.000954  -0.037376   -18.740305
0.75000   -0.137140   -17.888956   -0.191606
-0.000954  -0.374077   -21.986034
1.00000   -0.137140    -5.313153   -0.191606
-0.000954  -0.721751   -48.719101

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.149166    0.231526    0.222184
2.40E-07   0.539355    0.820827
0.25000    0.149166    0.238477    0.222184
2.40E-07   0.274768    0.768976
0.50000    0.149166    0.257759    0.222184
2.40E-07   0.006400    0.742229
0.75000    0.149166    0.279267    0.222184
2.40E-07   0.249807    0.784123
1.00000    0.149166    0.298297    0.222184
2.40E-07   0.496475    0.857746

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.129405   -0.347611   -0.199653
-0.000671  -0.488828   -2.291337
0.25000   -0.129405   -0.329948   -0.199653
-0.000671  -0.242018   -2.173421
0.50000   -0.129405   -0.308746   -0.199653
-0.000671  -0.011628   -2.125422
0.75000   -0.129405   -0.288805   -0.199653
-0.000671  -0.284262   -2.119940
1.00000   -0.129405   -0.277691   -0.199653
-0.000671  -0.556899   -2.178086

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.178291    0.571689    0.384523
2.40E-07   0.932577    1.697017
0.25000    0.178291    0.773257    0.384523
2.40E-07   0.457626    2.190811
0.50000    0.178291    1.332432    0.384523
2.40E-07   0.011633    2.612266
0.75000    0.178291    1.956175    0.384523
2.40E-07   0.412748    2.508006
1.00000    0.178291    2.508027    0.384523
2.40E-07   0.820771    2.148387

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.231247   -2.909946   -0.330381
-0.001227  -0.810361   -6.616776
0.25000   -0.231247   -2.397700   -0.330381
-0.001227  -0.401918   -5.274638
0.50000   -0.231247   -1.782859   -0.330381
-0.001227  -0.022576   -4.981932
0.75000   -0.231247   -1.204577   -0.330381
-0.001227  -0.492867   -4.855707
1.00000   -0.231247   -0.882252   -0.330381
-0.001227  -0.968035   -5.512986

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.207441    0.408005    0.457736
6.92E-06   1.109229    2.510463
0.25000    0.207441    0.414260    0.457736
6.92E-06   0.542904    2.383701
0.50000    0.207441    0.431614    0.457736
6.92E-06   0.014333    2.522504
0.75000    0.207441    0.450972    0.457736
6.92E-06   0.469121    3.090294
1.00000    0.207441    0.468098    0.457736
6.92E-06   0.936592    3.854672
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                                   4521

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.211459   -1.480231   -0.378336
-0.001403  -0.930371   -9.692992
0.25000   -0.211459   -1.464334   -0.378336
-0.001403  -0.462665   -8.638357
0.50000   -0.211459   -1.445253   -0.378336
-0.001403  -0.030809   -7.827786
0.75000   -0.211459   -1.427306   -0.378336
-0.001403  -0.586598   -7.195197
1.00000   -0.211459   -1.417303   -0.378336
-0.001403  -1.152882   -6.747025

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.252532    6.198289    0.449579
0.000390   1.084498    8.615011
0.25000    0.252532   11.061980    0.449579
0.000390   0.538337   23.627511
0.50000    0.252532   24.554484    0.449579
0.000390   0.032747   34.573048
0.75000    0.252532   39.604982    0.449579
0.000390   0.453205   26.158106
1.00000    0.252532   52.920788    0.449579
0.000390   0.894695    9.239579

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.209572   -53.974388   -0.360800
-0.001163  -0.897870   -38.817918
0.25000   -0.209572   -41.614242   -0.360800
-0.001163  -0.452285   -17.170871
0.50000   -0.209572   -26.778545   -0.360800
-0.001163  -0.045997   -18.198944
0.75000   -0.209572   -12.825007   -0.360800
-0.001163  -0.585068   -19.901270
1.00000   -0.209572    -5.047538   -0.360800
-0.001163  -1.140447   -38.680018

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.029921    0.129771    0.169883
2.40E-06   0.411837    0.815028
0.25000    0.029921    0.136721    0.169883
2.40E-06   0.200727    0.809085
0.50000    0.029921    0.156003    0.169883
2.40E-06   0.004893    0.939284
0.75000    0.029921    0.177511    0.169883
2.40E-06   0.164238    1.193866
1.00000    0.029921    0.196541    0.169883
2.40E-06   0.328798    1.522382

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.093255   -0.721416   -0.133051
-0.000576  -0.327587   -4.334171
0.25000   -0.093255   -0.703752   -0.133051
-0.000576  -0.163222   -3.757470
0.50000   -0.093255   -0.682551   -0.133051
-0.000576  -0.012176   -3.319025
0.75000   -0.093255   -0.662610   -0.133051
-0.000576  -0.217572   -2.988421
1.00000   -0.093255   -0.651495   -0.133051
-0.000576  -0.427775   -2.738139

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.109061    8.861846    0.276296
2.40E-07   0.659038   10.279446
0.25000    0.109061   16.264248    0.276296
2.40E-07   0.331867   33.448749
0.50000    0.109061   36.799463    0.276296
2.40E-07   0.036948   50.149609
0.75000    0.109061   59.705901    0.276296
2.40E-07   0.261857   36.767476
1.00000    0.109061   79.972187    0.276296
2.40E-07   0.504953   10.232123
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                                   4522

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.092722   -80.754783   -0.201986
-0.000743  -0.510296   -50.188169
0.25000   -0.092722   -61.942985   -0.201986
-0.000743  -0.260801   -18.129083
0.50000   -0.092722   -39.363467   -0.201986
-0.000743  -0.042510   -20.371093
0.75000   -0.092722   -18.126571   -0.201986
-0.000743  -0.370028   -23.507093
1.00000   -0.092722    -6.289406   -0.201986
-0.000743  -0.711046   -52.471955

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
0.00000    0.178808    8.152951    0.424365
2.16E-07   1.019475    9.882952
0.25000    0.178808   14.852647    0.424365
2.16E-07   0.507944   30.803581
0.50000    0.178808   33.438463    0.424365
2.16E-07   0.038387   45.907456
0.75000    0.178808   54.170402    0.424365
2.16E-07   0.426305   33.864176
1.00000    0.178808   72.512818    0.424365
2.16E-07   0.833434    9.965961

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
0.00000   -0.175365   -73.337965   -0.334296
-0.001202  -0.832888   -47.536681
0.25000   -0.175365   -56.311964   -0.334296
-0.001202  -0.419777   -18.425340
0.50000   -0.175365   -35.875909   -0.334296
-0.001202  -0.047920   -20.411610
0.75000   -0.175365   -16.655023   -0.334296
-0.001202  -0.558054   -23.238116
1.00000   -0.175365    -5.941622   -0.334296
-0.001202  -1.082010   -49.474594

COMB DL-G2-4 ------------------- MAX
```

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.219548	5.150167	0.426383
0.000682	1.030081	7.722701	
0.25000	0.219548	13.980111	0.426383
0.000682	0.510751	20.201116	
0.50000	0.219548	20.397811	0.426383
0.000682	0.028806	29.407755	
0.75000	0.219548	32.899564	0.426383
0.000682	0.414977	22.632841	
1.00000	0.219548	43.960389	0.426383
0.000682	0.823820	8.865127	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.191938	-45.283885	-0.333636
-0.001008	-0.832484	-35.442985	
0.25000	-0.191938	-35.016882	-0.333636
-0.001008	-0.420187	-17.069366	
0.50000	-0.191938	-22.693554	-0.333636
-0.001008	-0.044017	-17.624469	
0.75000	-0.191938	-11.102994	-0.333636
-0.001008	-0.552881	-18.781535	
1.00000	-0.191938	4.642615	-0.333636
-0.001008	-1.079753	-34.169962	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102005	0.115445	0.130139
0.001196	0.319016	1.195209	
0.25000	0.102005	0.122395	0.130139
0.001196	0.158414	1.285586	
0.50000	0.102005	0.141677	0.130139
0.001196	0.003473	1.510742	
0.75000	0.102005	0.163185	0.130139
0.001196	0.112958	1.884704	
1.00000	0.102005	0.182215	0.130139
0.001196	0.233170	2.364345	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.085582	-0.963586	-0.097386
-9.31E-06	-0.247149	-6.488692	
0.25000	-0.085582	-0.945922	-0.097386
-9.31E-06	-0.126964	-5.703665	
0.50000	-0.085582	-0.924721	-0.097386
-9.31E-06	-0.012554	-5.069052	
0.75000	-0.085582	-0.904780	-0.097386
-9.31E-06	-0.163381	-4.529490	
1.00000	-0.085582	-0.893665	-0.097386
-9.31E-06	-0.324137	-4.105665	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197968	12.541347	0.219059
0.001287	0.521272	14.061001	
0.25000	0.197968	23.050673	0.219059
0.001287	0.272086	46.967306	
0.50000	0.197968	52.204894	0.219059
0.001287	0.046165	70.607773	
0.75000	0.197968	84.725583	0.219059
0.001287	0.199333	51.434207	
1.00000	0.197968	113.498601	0.219059
0.001287	0.378662	13.528129	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112262	-114.254978	-0.152794
-8.55E-05	-0.402045	-68.905335	
0.25000	-0.112262	-87.547525	-0.152794
-8.55E-05	-0.213666	-23.758219	
0.50000	-0.112262	-55.490969	-0.152794
-8.55E-05	-0.049230	-27.243432	
0.75000	-0.112262	-25.340558	-0.152794
-8.55E-05	-0.399122	-31.881506	
1.00000	-0.112262	-8.535224	-0.152794
-8.55E-05	-0.568487	-73.144927	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.195211	9.105667	0.326454
0.001171	0.784373	11.295572	
0.25000	0.195211	16.681140	0.326454
0.001171	0.395722	35.100530	
0.50000	0.195211	37.696474	0.326454
0.001171	0.006776	52.378785	
0.75000	0.195211	61.138471	0.326454
0.001171	0.296909	38.928970	
1.00000	0.195211	81.878588	0.326454
0.001171	0.581924	12.101957	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.129624	-83.222014	-0.236233
-0.000468	-0.602338	-55.738976	
0.25000	-0.129624	-63.970391	-0.236233
-0.000468	-0.310363	-22.444952	
0.50000	-0.129624	-40.862957	-0.236233
-0.000468	-0.050002	-24.318523	
0.75000	-0.129624	-19.129537	-0.236233
-0.000468	-0.430944	-27.138621	
1.00000	-0.129624	-7.015692	-0.236233
-0.000468	-0.834153	-56.456385	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.207083	7.656714	0.415908
0.000976	1.002593	9.921901	
0.25000	0.207083	13.943543	0.415908
0.000976	0.500860	29.606939	
0.50000	0.207083	31.384014	0.415908
0.000976	0.036200	43.934083	
0.75000	0.207083	50.838355	0.415908
0.000976	0.397332	32.898868	
1.00000	0.207083	68.050426	0.415908
0.000976	0.783739	11.811838	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.194260	-69.374275	-0.317240
-0.000858	-0.797152	-48.605937	
0.25000	-0.194260	-53.397495	-0.317240
-0.000858	-0.405053	-20.759452	
0.50000	-0.194260	-34.220805	-0.317240
-0.000858	-0.049931	-22.156016	
0.75000	-0.194260	-16.184399	-0.317240
-0.000858	-0.543357	-24.401702	
1.00000	-0.194260	-6.131208	-0.317240
-0.000858	-1.057097	-48.672652	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.164160	11.071780	0.304297
0.001278	0.735083	15.855070	
0.25000	0.164160	30.586981	0.304297
0.001278	0.361472	64.062853	
0.50000	0.164160	58.593786	0.304297
0.001278	0.044735	88.523604	
0.75000	0.164160	85.545390	0.304297
0.001278	0.272098	70.187948	
1.00000	0.164160	112.781625	0.304297
0.001278	0.530557	16.751774	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.164938	-114.588711	-0.210487
-0.001492	-0.510621	-71.987699	
0.25000	-0.164938	-82.831359	-0.210487
-0.001492	-0.256195	-22.108076	
0.50000	-0.164938	-58.643680	-0.210487
-0.001492	-0.045234	-26.264768	
0.75000	-0.164938	-29.850384	-0.210487
-0.001492	-0.404959	-31.988644	
1.00000	-0.164938	-7.693913	-0.210487
-0.001492	-0.780548	-79.090781	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.252532	12.541347	0.457736
0.001287	1.109229	14.061001	
0.25000	0.252532	23.050673	0.457736
0.001287	0.542904	46.967306	
0.50000	0.252532	52.204894	0.457736
0.001287	0.046165	70.607773	
0.75000	0.252532	85.545390	0.457736
0.001287	0.469121	70.187948	
1.00000	0.252532	113.498001	0.457736
0.001287	0.936592	13.528129	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.231247	-114.254978	-0.378336
-0.001403	-0.930371	-68.905335	
0.25000	-0.231247	-87.547525	-0.378336
-0.001403	-0.462665	-23.758219	
0.50000	-0.231247	-55.490969	-0.378336
-0.001403	-0.050002	-27.243432	
0.75000	-0.231247	-25.340558	-0.378336
-0.001403	-0.586598	-31.881506	
1.00000	-0.231247	-8.535224	-0.378336
-0.001403	-1.152882	-73.144927	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.252532	12.541347	0.457736
0.001287	1.109229	15.855070	
0.25000	0.252532	30.586981	0.457736
0.001287	0.542904	64.062853	
0.50000	0.252532	58.593786	0.457736
0.001287	0.046165	88.523604	
0.75000	0.252532	85.545390	0.457736
0.001287	0.469121	70.187948	
1.00000	0.252532	113.498001	0.457736
0.001287	0.936592	16.751774	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.231247	-114.588711	-0.378336
-0.001492	-0.930371	-71.987699	
0.25000	-0.231247	-87.547525	-0.378336
-0.001492	-0.462665	-23.758219	
0.50000	-0.231247	-58.643680	-0.378336
-0.001492	-0.050002	-27.243432	
0.75000	-0.231247	-29.850384	-0.378336
-0.001492	-0.586598	-31.988644	
1.00000	-0.231247	-8.535224	-0.378336
-0.001492	-1.152882	-79.090781	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.252532	12.541347	0.457736
0.001287	1.109229	15.855070	
0.25000	0.252532	30.586981	0.457736
0.001287	0.542904	64.062853	
0.50000	0.252532	58.593786	0.457736
0.001287	0.046165	88.523604	
0.75000	0.252532	85.545390	0.457736
0.001287	0.469121	70.187948	
1.00000	0.252532	113.498001	0.457736
0.001287	0.936592	16.751774	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.231247	-114.588711	-0.378336
-0.001492	-0.930371	-71.987699	
0.25000	-0.231247	-87.547525	-0.378336
-0.001492	-0.462665	-23.758219	
0.50000	-0.231247	-58.643680	-0.378336
-0.001492	-0.050002	-27.243432	
0.75000	-0.231247	-29.850384	-0.378336
-0.001492	-0.586598	-31.988644	
1.00000	-0.231247	-8.535224	-0.378336
-0.001492	-1.152882	-79.090781	

ELEM 440 ========== LENGTH = 4.943265

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.091393	0.100784	0.162024
4.65E-07	0.401715	0.720128	
0.25000	0.091393	0.124744	0.162024
4.65E-07	0.201496	0.994458	
0.50000	0.091393	0.156515	0.162024
4.65E-07	0.004631	1.266066	
0.75000	0.091393	0.186340	0.162024
4.65E-07	0.154598	1.510699	
1.00000	0.091393	0.217500	0.162024
4.65E-07	0.308857	1.734651	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.106299	-0.388992	-0.124837
-0.000678	-0.308269	-1.838415	
0.25000	-0.106299	-0.357467	-0.124837
-0.000678	-0.153992	-1.779740	
0.50000	-0.106299	-0.327690	-0.124837
-0.000678	-0.000656	-1.775810	
0.75000	-0.106299	-0.295858	-0.124837
-0.000678	-0.199019	-1.773706	
1.00000	-0.106299	-0.271664	-0.124837
-0.000678	-0.399246	-1.825628	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.141216	0.499567	0.274403
1.97E-06	0.680904	2.313355	
0.25000	0.141216	1.170448	0.274403
1.97E-06	0.341987	4.197162	
0.50000	0.141216	2.060034	0.274403
1.97E-06	0.011905	5.405434	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.141216	2.895121	0.274403
1.97E-06	0.255958	5.321546	
1.00000	0.141216	3.767605	0.274403
1.97E-06	0.510515	4.281785	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.173801	-4.226487	-0.206371
-0.001227	-0.510228	-5.765824	
0.25000	-0.173801	-3.343788	-0.206371
-0.001227	-0.255185	-4.192803	
0.50000	-0.173801	-2.510041	-0.206371
-0.001227	-0.013036	-4.152754	
0.75000	-0.173801	-1.618746	-0.206371
-0.001227	-0.337519	-4.134758	
1.00000	-0.173801	-0.941316	-0.206371
-0.001227	-0.676596	-5.616652	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.186362	0.291652	0.322125
4.19E-07	0.800343	4.260010	
0.25000	0.186362	0.313216	0.322125
4.19E-07	0.402394	4.688288	
0.50000	0.186362	0.341810	0.322125
4.19E-07	0.018902	5.324553	
0.75000	0.186362	0.368652	0.322125
4.19E-07	0.278188	6.230066	
1.00000	0.186362	0.396696	0.322125
4.19E-07	0.555762	7.303821	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.157028	-1.216633	-0.224534
-0.001426	-0.554220	-5.207052	
0.25000	-0.157028	-1.188260	-0.224534
-0.001426	-0.276638	-5.031447	
0.50000	-0.157028	-1.161461	-0.224534
-0.001426	-0.016468	-4.905237	
0.75000	-0.157028	-1.132813	-0.224534
-0.001426	-0.394091	-4.781033	
1.00000	-0.157028	-1.111038	-0.224534
-0.001426	-0.792212	-4.705383	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.198584	6.545483	0.319300
0.000445	0.798249	12.535075	
0.25000	0.198584	19.250287	0.319300
0.000445	0.407252	44.101608	
0.50000	0.198584	36.098635	0.319300
0.000445	0.048133	59.596870	
0.75000	0.198584	51.911298	0.319300
0.000445	0.275101	47.789827	
1.00000	0.198584	68.433948	0.319300
0.000445	0.534189	16.096602	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.175593	-69.528410	-0.216999
-0.001183	-0.549742	-50.525718	
0.25000	-0.175593	-52.812296	-0.216999
-0.001183	-0.281472	-21.365706	
0.50000	-0.175593	-37.023210	-0.216999
-0.001183	-0.041755	-21.233616	
0.75000	-0.175593	-20.144313	-0.216999
-0.001183	-0.404637	-21.491584	
1.00000	-0.175593	-7.315477	-0.216999
-0.001183	-0.799023	-50.146813	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.061535	0.106007	0.116204
4.56E-06	0.168746	1.836801	
Program	SAP2000	Nonlinear Version	7.42
File:하행S11-S1503.OUT			

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.061535	0.129967	0.116204
4.56E-06	0.145164	2.008188	
0.50000	0.061535	0.161738	0.116204
4.56E-06	0.008585	2.278580	
0.75000	0.061535	0.191563	0.116204
4.56E-06	0.098995	2.652565	
1.00000	0.061535	0.222723	0.116204
4.56E-06	0.197691	3.066451	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.058926	-0.595504	-0.079851
-0.000578	-0.197075	-2.174582	
0.25000	-0.058926	-0.563979	-0.079851
-0.000578	-0.098361	-2.054455	
0.50000	-0.058926	-0.534202	-0.079851
-0.000578	-0.006293	-1.989165	
0.75000	-0.058926	-0.502370	-0.079851
-0.000578	-0.142264	-1.924850	
1.00000	-0.058926	-0.478176	-0.079851
-0.000578	-0.285828	-1.914137	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.125234	8.635728	0.196560
4.09E-05	0.496436	13.933235	
0.25000	0.125234	26.030109	0.196560
4.09E-05	0.258459	56.795172	
0.50000	0.125234	49.095820	0.196560
4.09E-05	0.052035	77.514698	
0.75000	0.125234	70.748437	0.196560
4.09E-05	0.151094	60.648300	
1.00000	0.125234	93.370679	0.196560
4.09E-05	0.280468	16.399348	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.064716	-94.285370	-0.114749
-0.000762	-0.302166	-65.164706	
0.25000	-0.064716	-71.398244	-0.114749
-0.000762	-0.160222	-25.342276	
0.50000	-0.064716	-49.780371	-0.114749
-0.000762	-0.044064	-25.263807	
0.75000	-0.064716	-26.670368	-0.114749
-0.000762	-0.258439	-25.717957	
1.00000	-0.064716	-9.105569	-0.114749
-0.000762	-0.501058	-65.052291	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.174111	7.870028	0.303455
3.70E-05	0.760669	13.172443	
0.25000	0.174111	23.590202	0.303455
3.70E-05	0.390118	52.114783	
0.50000	0.174111	44.435124	0.303455
3.70E-05	0.051208	71.047770	
0.75000	0.174111	64.003005	0.303455
3.70E-05	0.255154	56.019515	
1.00000	0.174111	84.447156	0.303455
3.70E-05	0.490475	16.252891	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126788	-85.417080	-0.199493
-0.001226	-0.509579	-60.335838	
0.25000	-0.126788	-64.733550	-0.199493
-0.001226	-0.262907	-24.336056	
0.50000	-0.126788	-45.197067	-0.199493
-0.001226	-0.044994	-24.253916	
0.75000	-0.126788	-24.312119	-0.199493
-0.001226	-0.388019	-24.653857	
1.00000	-0.126788	-8.438475	-0.199493
-0.001226	-0.762743	-60.190654	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.186252	5.382665	0.299648
0.000737	0.748459	11.792756	
0.25000	0.186252	15.697457	0.299648
0.000737	0.381067	37.513729	
0.50000	0.186252	29.372853	0.299648
0.000737	0.045443	50.269300	
0.75000	0.186252	42.214317	0.299648
0.000737	0.257328	40.961566	
1.00000	0.186252	55.628746	0.299648
0.000737	0.501739	15.600084	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.170488	-56.825633	-0.203712
-0.001026	-0.514400	-42.481882	
0.25000	-0.170488	-43.254135	-0.203712
-0.001026	-0.262535	-18.772990	
0.50000	-0.170488	-30.435272	-0.203712
-0.001026	-0.037666	-18.545338	
0.75000	-0.170488	-16.731614	-0.203712
-0.001026	-0.377993	-18.677241	
1.00000	-0.170488	-6.316123	-0.203712
-0.001026	-0.748152	-41.864207	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.065830	0.107403	0.092189
0.001144	0.228158	2.904871	
0.25000	0.065830	0.131363	0.092189
0.001144	0.114231	3.198707	
0.50000	0.065830	0.163134	0.092189
0.001144	0.011680	3.609051	
0.75000	0.065830	0.192958	0.092189
0.001144	0.091251	4.160431	
1.00000	0.065830	0.224118	0.092189
0.001144	0.182658	4.772126	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.110534	-0.819780	-0.074030
-8.19E-06	-0.183359	-3.052736	
0.25000	-0.110534	-0.788255	-0.074030
-8.19E-06	-0.091869	-2.843164	
0.50000	-0.110534	-0.758478	-0.074030
-8.19E-06	-0.007943	-2.688336	
0.75000	-0.110534	-0.726646	-0.074030
-8.19E-06	-0.113668	-2.534248	
1.00000	-0.110534	-0.702453	-0.074030
-8.19E-06	-0.227601	-2.433727	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.120364	10.507664	0.160750
0.001376	0.407514	16.734821	
0.25000	0.120364	31.688329	0.160750
0.001376	0.214732	69.008010	
0.50000	0.120364	59.773851	0.160750
0.001376	0.061546	94.226445	
0.75000	0.120364	86.138744	0.160750
0.001376	0.141096	73.665993	
1.00000	0.120364	113.684285	0.160750
0.001376	0.256238	19.683381	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.145210	-114.773230	-0.105551
-9.06E-05	-0.285230	-79.081712	
0.25000	-0.145210	-86.905159	-0.105551
-9.06E-05	-0.155179	-30.544388	
0.50000	-0.145210	-60.582570	-0.105551
-9.06E-05	-0.052078	-30.400447	
0.75000	-0.145210	-32.443118	-0.105551
-9.06E-05	-0.220186	-30.905047	
1.00000	-0.145210	-11.055676	-0.105551
-9.06E-05	-0.418422	-78.751360	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.164876	7.320716	0.230144
0.001199	0.577787	14.657062	
0.25000	0.164876	21.854869	0.230144
0.001199	0.297492	50.714604	
0.50000	0.164876	41.127129	0.230144
0.001199	0.055065	68.392031	
0.75000	0.164876	59.218695	0.230144
0.001199	0.191650	54.834631	
1.00000	0.164876	78.120420	0.230144
0.001199	0.365486	18.505124	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.142886	-79.462878	-0.149056
-0.000507	-0.384186	-57.255281	
0.25000	-0.142886	-60.339833	-0.149056
-0.000507	-0.199857	-23.824179	
0.50000	-0.142886	-42.277297	-0.149056
-0.000507	-0.044149	-23.900576	
0.75000	-0.142886	-22.968030	-0.149056
-0.000507	-0.297276	-23.821920	
1.00000	-0.142886	-8.291987	-0.149056
-0.000507	-0.581429	-56.529115	

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.181252 6.119628 0.293261
0.000999 0.733185 12.888601
0.25000 0.181252 18.141572 0.293261
0.000999 0.374186 42.822059
0.50000 0.181252 34.082648 0.293261
0.000999 0.049751 57.610527
0.75000 0.181252 49.047111 0.293261
0.000999 0.253653 46.626333
1.00000 0.181252 64.681698 0.293261
0.000999 0.492329 16.853359

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.177257 -65.979042 -0.200077
-0.000889 -0.507344 -48.694574
0.25000 -0.177257 -50.161390 -0.200077
-0.000889 -0.259984 -21.020036
0.50000 -0.177257 -35.220939 -0.200077
-0.000889 -0.040939 -20.813429
0.75000 -0.177257 -19.249253 -0.200077
-0.000889 -0.372153 -20.975253
1.00000 -0.177257 -7.109944 -0.200077
-0.000889 -0.734355 -48.007786

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.176429 0.141941 0.232563
2.80E-07 0.577940 0.859186
0.25000 0.176429 0.149996 0.232563
2.80E-07 0.290546 1.029148
0.50000 0.176429 0.169414 0.232563
2.80E-07 0.004597 1.245957
0.75000 0.176429 0.190592 0.232563
2.80E-07 0.235668 1.516381
1.00000 0.176429 0.209180 0.232563
2.80E-07 0.477686 1.872285

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.135866 -0.427097 -0.195754
-0.000682 -0.488526 -2.198648
0.25000 -0.135866 -0.408596 -0.195754
-0.000682 -0.246502 -2.036027
0.50000 -0.135866 -0.387435 -0.195754
-0.000682 -0.007800 -1.979058
0.75000 -0.135866 -0.367964 -0.195754
-0.000682 -0.284204 -2.011038
1.00000 -0.135866 -0.359533 -0.195754
-0.000682 -0.576531 -2.181241
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4530

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.237692 0.498020 0.398936
1.38E-06 0.992886 2.151082
0.25000 0.237692 0.731636 0.398936
1.38E-06 0.500216 3.094875
0.50000 0.237692 1.294738 0.398936
1.38E-06 0.011444 3.881195
0.75000 0.237692 1.908915 0.398936
1.38E-06 0.390154 4.064697
1.00000 0.237692 2.447964 0.398936
1.38E-06 0.790177 4.146825

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.221339 -2.972856 -0.324142
-0.001229 -0.809457 -5.553005
0.25000 -0.221339 -2.436330 -0.324142
-0.001229 -0.408974 -4.390025
0.50000 -0.221339 -1.822671 -0.324142
-0.001229 -0.014289 -4.200478
0.75000 -0.221339 -1.258001 -0.324142
-0.001229 -0.396286 -4.186184
1.00000 -0.221339 -1.013503 -0.324142
-0.001229 -0.979320 -5.205667

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.278000 0.462292 0.472570
6.98E-06 1.178775 3.857585
0.25000 0.278000 0.469542 0.472570
6.98E-06 0.594158 4.088307
0.50000 0.278000 0.487017 0.472570
6.98E-06 0.018905 4.582476
0.75000 0.278000 0.506078 0.472570
6.98E-06 0.436484 5.469643
1.00000 0.278000 0.522807 0.472570
6.98E-06 0.888253 6.747610

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.198201 -1.439177 -0.365654
-0.001343 -0.915198 -6.795204
0.25000 -0.198201 -1.422526 -0.365654
-0.001343 -0.463347 -6.111859
0.50000 -0.198201 -1.403482 -0.365654
-0.001343 -0.019588 -5.654394
0.75000 -0.198201 -1.385957 -0.365654
-0.001343 -0.571855 -5.429872
1.00000 -0.198201 -1.378369 -0.365654
-0.001343 -1.156534 -5.654488

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.300411 5.960050 0.460542
0.000414 1.150877 9.231079
0.25000 0.300411 11.597038 0.460542
0.000414 0.588739 26.891124
0.50000 0.300411 25.184316 0.460542
0.000414 0.041677 37.700583
0.75000 0.300411 40.003985 0.460542
0.000414 0.413878 28.982998
1.00000 0.300411 53.010863 0.460542
0.000414 0.829224 13.009685

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.212124 -54.317263 -0.343204
-0.001114 -0.873109 -38.715592
0.25000 -0.212124 -41.371260 -0.343204
-0.001114 -0.448883 -18.037779
0.50000 -0.212124 -26.564083 -0.343204
-0.001114 -0.035653 -17.585088
0.75000 -0.212124 -12.938994 -0.343204
-0.001114 -0.566165 -17.396860
1.00000 -0.212124 -7.039424 -0.343204
-0.001114 -1.134045 -37.008537
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4531

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.064878 0.186778 0.173371
2.45E-06 0.433321 1.524208
0.25000 0.064878 0.194834 0.173371
2.45E-06 0.218354 1.674186
0.50000 0.064878 0.214251 0.173371
2.45E-06 0.008211 1.890495
0.75000 0.064878 0.235429 0.173371
2.45E-06 0.153902 2.205582
1.00000 0.064878 0.254017 0.173371
2.45E-06 0.313342 2.675830

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.072851 -0.651312 -0.129047
-0.000521 -0.322926 -2.539548
0.25000 -0.072851 -0.632811 -0.129047
-0.000521 -0.163447 -2.438374
0.50000 -0.072851 -0.611651 -0.129047
-0.000521 -0.007143 -2.221556
0.75000 -0.072851 -0.592179 -0.129047
-0.000521 0.208758 -2.109518
1.00000 -0.072851 -0.583745 -0.129047
-0.000521 -0.423714 -2.191328

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.147835 8.521090 0.280694
4.21E-05 0.703543 10.231598
0.25000 0.147835 17.100428 0.280694
4.21E-05 0.367322 36.997884
0.50000 0.147835 37.779886 0.280694
4.21E-05 0.047188 53.076893
0.75000 0.147835 60.335010 0.280694
4.21E-05 0.235822 38.845574
1.00000 0.147835 80.131116 0.280694
4.21E-05 0.459063 13.249751

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.070317 -81.259520 -0.191239
-0.000651 -0.498880 -52.502545
0.25000 -0.070317 -61.556063 -0.191239
-0.000651 -0.262206 -21.647777
0.50000 -0.070317 -39.019953 -0.191239
-0.000651 -0.035407 -21.384511
0.75000 -0.070317 -18.282947 -0.191239
-0.000651 -0.352408 -21.319358
1.00000 -0.070317 -9.303966 -0.191239
-0.000651 -0.697343 -51.048126

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.240026 7.806062 0.435337
3.81E-05 1.087733 9.967294
0.25000 0.240026 15.570967 0.435337
3.81E-05 0.559286 34.319464
0.50000 0.240026 34.287333 0.435337
3.81E-05 0.046959 49.046120
0.75000 0.240026 54.701309 0.435337
3.81E-05 0.393023 36.401029
1.00000 0.240026 72.618178 0.435337
3.81E-05 0.779319 13.548243

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.155205 -73.829180 -0.322180
-0.001134 -0.823452 -49.509135
0.25000 -0.155205 -55.996164 -0.322180
-0.001134 -0.424964 -21.495131
0.50000 -0.155205 -35.599398 -0.322180
-0.001134 -0.037980 -21.211700
0.75000 -0.155205 -16.830947 -0.322180
-0.001134 -0.540005 -21.164353
1.00000 -0.155205 -8.704337 -0.322180
-0.001134 -1.076341 -48.155546
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4532

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.258686 5.029965 0.433570
0.000699 1.084882 8.849355
0.25000 0.258686 9.712351 0.433570
0.000699 0.554682 23.565316
0.50000 0.258686 20.998674 0.433570
0.000699 0.040104 32.675363
0.75000 0.258686 33.390689 0.433570
0.000699 0.376179 25.662854
1.00000 0.258686 44.112902 0.433570
0.000699 0.757215 12.724704

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.203690 -45.509698 -0.314050
-0.000950 -0.799389 -34.187045
0.25000 -0.203690 -34.756051 -0.314050
-0.000950 -0.411076 -16.800411
0.50000 -0.203690 -22.456413 -0.314050
-0.000950 -0.033537 -16.238525
0.75000 -0.203690 -11.138682 -0.314050
-0.000950 -0.530064 -15.929315
1.00000 -0.203690 -6.238181 -0.314050
-0.000950 -1.065021 -32.153697

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.087530 0.178346 0.127385
0.001145 0.320261 2.336000
0.25000 0.087530 0.186622 0.127385
0.001145 0.163075 2.543515
0.50000 0.087530 0.205819 0.127385
0.001145 0.010735 2.863726
0.75000 0.087530 0.226998 0.127385
0.001145 0.096919 3.329608
1.00000 0.087530 0.245586 0.127385
0.001145 0.201176 3.974110

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.141979 -0.911097 -0.084430
-7.25E-06 -0.215067 -4.085215
0.25000 -0.141979 -0.892596 -0.084430
-7.25E-06 -0.110801 -3.553186
0.50000 -0.141979 -0.871435 -0.084430
-7.25E-06 -0.009263 -3.147651
0.75000 -0.141979 -0.851964 -0.084430
-7.25E-06 -0.151553 -2.935718
1.00000 -0.141979 -0.843533 -0.084430
-7.25E-06 -0.308793 -2.743014

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.176089 11.960484 0.216000
0.001326 0.544078 13.493569
0.25000 0.176089 24.140727 0.216000
0.001326 0.293246 51.489583
0.50000 0.176089 53.499732 0.216000
0.001326 0.061061 74.228515
0.75000 0.176089 85.521655 0.216000
0.001326 0.167559 53.849112
1.00000 0.176089 113.626548 0.216000
0.001326 0.313166 17.148122

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.171272 -115.064647 -0.133247
-6.88E-05 -0.364282 -73.126909
0.25000 -0.171272 -87.091289 -0.133247
-6.88E-05 -0.199881 -29.446578
0.50000 -0.171272 -55.096361 -0.133247
-6.88E-05 -0.045328 -29.144590
0.75000 -0.171272 -25.655654 -0.133247
-6.88E-05 -0.279943 -29.033652
1.00000 -0.171272 -12.908030 -0.133247
-6.88E-05 -0.543110 -70.979978
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4533

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.203967 8.801580 0.326304
0.001157 0.819646 12.073141
0.25000 0.203967 17.581506 0.326304
0.001157 0.427327 39.599307
0.50000 0.203967 38.744455 0.326304
0.001157 0.055234 56.270530
0.75000 0.203967 61.826924 0.326304
0.001157 0.259216 42.005077
1.00000 0.203967 82.085868 0.326304
0.001157 0.510214 16.225505

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.168307 -83.712954 -0.214214
-0.000393 -0.560273 -56.457997
0.25000 -0.168307 -63.548825 -0.214214
-0.000393 -0.295597 -24.515165
0.50000 -0.168307 -40.489514 -0.214214
-0.000393 -0.042108 -23.939171
0.75000 -0.168307 -19.263971 -0.214214
-0.000393 -0.405255 -23.614984
1.00000 -0.168307 -10.075059 -0.214214
-0.000393 -0.806501 -53.889351

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.238975 7.403989 0.420348
0.000964 1.052709 10.788188
0.25000 0.238975 14.690384 0.420348
0.000964 0.554215 33.712253
0.50000 0.238975 32.253360 0.420348
0.000964 0.050181 47.688603
0.75000 0.238975 51.409332 0.420348
0.000964 0.358662 36.089887
1.00000 0.238975 68.222081 0.420348
0.000964 0.714319 15.012873

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.218768 -69.779703 -0.297048
-0.000789 -0.762595 -48.683310
0.25000 -0.218768 -53.045640 -0.297048
-0.000789 -0.395533 -22.055411
0.50000 -0.218768 -33.905817 -0.297048
-0.000789 -0.039913 -21.502310
0.75000 -0.218768 -16.293966 -0.297048
-0.000789 -0.518251 -21.216195
1.00000 -0.218768 -8.668155 -0.297048
-0.000789 -1.035970 -46.400602

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.198584 10.507664 0.322125
0.001376 0.800343 16.734821
0.25000 0.198584 31.688329 0.322125
0.001376 0.407252 69.008010
0.50000 0.198584 59.773851 0.322125
0.001376 0.061546 94.262545
0.75000 0.198584 86.138744 0.322125
0.001376 0.436484 73.665993
1.00000 0.198584 113.684285 0.322125
0.001376 0.555762 19.683381

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.177257 -114.773230 -0.224534
-0.001426 -0.554220 -79.081712
0.25000 -0.177257 -86.905159 -0.224534
-0.001426 -0.281472 -30.544388
0.50000 -0.177257 -60.582570 -0.224534
-0.001426 -0.052078 -30.400447
0.75000 -0.177257 -32.443118 -0.224534
-0.001426 -0.404637 -30.905047
1.00000 -0.177257 -11.055676 -0.224534
-0.001426 -0.799023 -78.751360
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4534

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.300411 11.960484 0.472570
0.001326 1.178775 13.493569
0.25000 0.300411 24.140727 0.472570
0.001326 0.594158 51.489583
0.50000 0.300411 53.499732 0.472570
0.001326 0.061061 74.228515
0.75000 0.300411 85.521655 0.472570
0.001326 0.436484 53.849112
1.00000 0.300411 113.626548 0.472570
0.001326 0.888253 17.148122

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.221339 -115.064647 -0.365654
-0.001343 -0.915198 -73.126909
0.25000 -0.221339 -87.091289 -0.365654
-0.001343 -0.463347 -29.446578
0.50000 -0.221339 -55.096361 -0.365654
-0.001343 -0.045328 -29.144590
0.75000 -0.221339 -25.655654 -0.365654
-0.001343 -0.571855 -29.033652
1.00000 -0.221339 -12.908030 -0.365654
-0.001343 -1.156534 -70.979978

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.300411 11.960484 0.472570
0.001376 1.178775 16.734821
0.25000 0.300411 31.688329 0.472570
0.001376 0.594158 69.008010
0.50000 0.300411 59.773851 0.472570
0.001376 0.061546 94.262545
0.75000 0.300411 86.138744 0.472570
0.001376 0.436484 73.665993
1.00000 0.300411 113.684285 0.472570
0.001376 0.888253 19.683381

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.221339 -115.064647 -0.365654
-0.001426 -0.915198 -79.081712
0.25000 -0.221339 -87.091289 -0.365654
-0.001426 -0.463347 -30.544388
0.50000 -0.221339 -60.582570 -0.365654
-0.001426 -0.052078 -30.400447
0.75000 -0.221339 -32.443118 -0.365654
-0.001426 -0.571855 -30.905047
1.00000 -0.221339 -12.908030 -0.365654
-0.001426 -1.156534 -78.751360

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.300411 11.960484 0.472570
0.001376 1.178775 16.734821
0.25000 0.300411 31.688329 0.472570
0.001376 0.594158 69.008010
0.50000 0.300411 59.773851 0.472570
0.001376 0.061546 94.262545
0.75000 0.300411 86.138744 0.472570
0.001376 0.436484 73.665993
1.00000 0.300411 113.684285 0.472570
0.001376 0.888253 19.683381

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.221339 -115.064647 -0.365654
-0.001426 -0.915198 -79.081712
0.25000 -0.221339 -87.091289 -0.365654
-0.001426 -0.463347 -30.544388
0.50000 -0.221339 -60.582570 -0.365654
-0.001426 -0.052078 -30.400447
0.75000 -0.221339 -32.443118 -0.365654
-0.001426 -0.571855 -30.905047
1.00000 -0.221339 -12.908030 -0.365654
-0.001426 -1.156534 -78.751360
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4535

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 441 ========== LENGTH = 4.942631

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.099550 0.127714 0.154981
3.90E-07 0.388470 1.686604
0.25000 0.099550 0.151770 0.154981
3.90E-07 0.196995 2.064299
0.50000 0.099550 0.183532 0.154981
3.90E-07 0.009012 2.426233
0.75000 0.099550 0.213303 0.154981
3.90E-07 0.153282 2.754821
1.00000 0.099550 0.244485 0.154981
3.90E-07 0.307484 3.057220

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.110559 -0.447512 -0.124802
-0.000574 -0.309401 -1.813788
0.25000 -0.110559 -0.416245 -0.124802
-0.000574 -0.155188 -1.797176
0.50000 -0.110559 -0.386486 -0.124802
-0.000574 -0.006248 -1.834622
0.75000 -0.110559 -0.357711 -0.124802
-0.000574 -0.186171 -1.873330
1.00000 -0.110559 -0.330550 -0.124802
-0.000574 -0.377577 -1.966075

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.153908 0.533400 0.261039
3.90E-07 0.655149 4.208967
0.25000 0.153908 1.206960 0.261039
3.90E-07 0.332653 6.380893
0.50000 0.153908 2.096322 0.261039
3.90E-07 0.020062 7.718502
0.75000 0.153908 2.929898 0.261039
3.90E-07 0.253600 7.779993
1.00000 0.153908 3.803000 0.261039
3.90E-07 0.507981 6.896269

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.180886 -4.354228 -0.206092
-0.001032 -0.511610 -5.597068
0.25000 -0.180886 -3.478733 -0.206092
-0.001032 -0.256947 -4.116418
0.50000 -0.180886 -2.645484 -0.206092
-0.001032 -0.012226 -4.149419
0.75000 -0.180886 -1.755942 -0.206092
-0.001032 -0.313804 -4.211978
1.00000 -0.180886 -1.079289 -0.206092
-0.001032 -0.636137 -5.781927

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.197386 0.303827 0.299895
0.000167 0.756093 7.239210
0.25000 0.197386 0.325477 0.299895
0.000167 0.385775 7.922392
0.50000 0.197386 0.354064 0.299895
0.000167 0.030957 8.857918
0.75000 0.197386 0.380858 0.299895
0.000167 0.274779 10.056604
1.00000 0.197386 0.408922 0.299895
0.000167 0.551573 11.426292

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.164278 -1.458066 -0.223980
-0.001205 -0.555551 -4.682728
0.25000 -0.164278 -1.429925 -0.223980
-0.001205 -0.278684 -4.675014
0.50000 -0.164278 -1.403142 -0.223980
-0.001205 -0.015206 -4.715954
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4536

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.164278 -1.374550 -0.223980
-0.001205 -0.356743 -4.758036
1.00000 -0.164278 -1.352808 -0.223980
-0.001205 -0.727028 -4.848867

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.209507 6.505824 0.299072

```
0.000520    0.758043   16.057423
0.25000     0.209507   19.261364     0.299072
 0.000520   0.391556   49.580445
0.50000     0.209507   36.103652     0.299072
 0.000520   0.062303   63.886099
0.75000     0.209507   51.889493     0.299072
 0.000520   0.276392   52.353306
1.00000     0.209507   68.423861     0.299072
 0.000520   0.537811   21.010452

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.188247  -69.833863   -0.216045
-0.001063  -0.547922  -50.112318
0.25000   -0.188247  -53.254177   -0.216045
-0.001063  -0.280870  -21.109815
0.50000   -0.188247  -37.474529   -0.216045
-0.001063  -0.039457  -20.772111
0.75000   -0.188247  -20.628818   -0.216045
-0.001063  -0.366601  -20.990061
1.00000   -0.188247   -7.814703   -0.216045
-0.001063  -0.735342  -49.749533

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.065696    0.120511    0.107903
4.29E-06   0.271879    3.046778
0.25000    0.065696    0.144567    0.107903
4.29E-06   0.113749    3.321123
0.50000    0.065696    0.176329    0.107903
4.29E-06   0.013147    3.743954
0.75000    0.065696    0.206100    0.107903
4.29E-06   0.097635    4.240562
1.00000    0.065696    0.237282    0.107903
4.29E-06   0.195994    4.788696

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.061619   -0.696298   -0.079581
-0.000492  -0.197406   -1.906658
0.25000   -0.061619   -0.665031   -0.079581
-0.000492  -0.099037   -1.859806
0.50000   -0.061619   -0.635272   -0.079581
-0.000492  -0.005771   -1.867012
0.75000   -0.061619   -0.603502   -0.079581
-0.000492  -0.128653   -1.875267
1.00000   -0.061619   -0.573336   -0.079581
-0.000492  -0.261899   -1.937347

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.129062    8.564939    0.177372
0.000180   0.457817   16.401025
0.25000    0.129062   26.029385    0.177372
 0.000180  0.242847   61.753475
0.50000    0.129062   49.089265    0.177372
 0.000180  0.061914   80.634711
0.75000    0.129062   70.702694    0.177372
 0.000180  0.152149   63.922105
1.00000    0.129062   93.340980    0.177372
 0.000180  0.283492   19.949470

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.067387  -94.527611   -0.112429
-0.000646  -0.296710  -65.021253
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4537

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.25000   -0.067387  -71.827277   -0.112429
-0.000646  -0.157658  -25.284160
0.50000   -0.067387  -50.222328   -0.112429
-0.000646  -0.042115  -24.793870
0.75000   -0.067387  -27.157762   -0.112429
-0.000646  -0.224097  -25.104133
1.00000   -0.067387   -9.613118   -0.112429
-0.000646  -0.439448  -64.412188

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.180899    7.829507    0.280287
0.000163   0.714591   16.217467
0.25000    0.180899   23.612458    0.280287
 0.000163  0.372125   57.490784
0.50000    0.180899   44.452111    0.280287
 0.000163  0.153614   74.836578
0.75000    0.180899   63.984577    0.280287
 0.000163  0.254996   60.020821
1.00000    0.180899   84.443226    0.280287
 0.000163  0.492001   20.565740

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.132589  -85.686841   -0.197319
-0.001043  -0.505425  -60.153910
0.25000   -0.132589  -65.172118   -0.197319
-0.001043  -0.261479  -24.269032
0.50000   -0.132589  -45.647315   -0.197319
-0.001043  -0.042860  -23.852236
0.75000   -0.132589  -24.803428   -0.197319
-0.001043  -0.346584  -24.122865
1.00000   -0.132589   -8.948000   -0.197319
-0.001043  -0.689359  -59.709057

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.194389    5.332645    0.281754
0.000785   0.712284   15.568391
0.25000    0.194389   15.588629    0.281754
 0.000785  0.366697   42.936760
0.50000    0.194389   29.362566    0.281754
 0.000785  0.060027   54.807550
0.75000    0.194389   42.178793    0.281754
 0.000785  0.259882   45.814412
1.00000    0.194389   55.602735    0.281754
 0.000785  0.507077   20.829043

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.189018  -57.154874   -0.203672
-0.000860  -0.514136  -41.835403
0.25000   -0.189018  -43.694139   -0.203672
-0.000860  -0.262358  -18.272731
0.50000   -0.189018  -30.882940   -0.203672
-0.000860  -0.035277  -17.982506
0.75000   -0.189018  -17.206224   -0.203672
-0.000860  -0.346855  -18.143352
1.00000   -0.189018   -6.802686   -0.203672
-0.000860  -0.692651  -41.476545

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.068637    0.129532    0.093403
0.000990   0.229785    4.762835
0.25000    0.068637    0.153588    0.093403
0.000990   0.114384    5.184957
0.50000    0.068637    0.185351    0.093403
0.000990   0.018162    5.753687
0.75000    0.068637    0.215122    0.093403
0.000990   0.096235    6.481539
1.00000    0.068637    0.246304    0.093403
0.000990   0.190567    7.273023
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4538

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.136126   -0.959087   -0.076371
-6.90E-06  -0.186940   -2.433220
0.25000   -0.136126   -0.927819   -0.076371
-6.90E-06  -0.092571   -2.344410
0.50000   -0.136126   -0.898061   -0.076371
-6.90E-06  -0.006842   -2.309767
0.75000   -0.136126   -0.866291   -0.076371
-6.90E-06  -0.116497   -2.276170
1.00000   -0.136126   -0.842125   -0.076371
-6.90E-06  -0.231920   -2.296401

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.123936   10.436219    0.154904
 0.001204  0.395194   19.697812
0.25000    0.123936   31.701467    0.154904
 0.001204  0.208714   74.973949
0.50000    0.123936   59.779889    0.154904
 0.001204  0.072625   97.936720
0.75000    0.123936   86.097066    0.154904
 0.001204  0.150297   77.505263
1.00000    0.123936  113.662141    0.154904
 0.001204  0.271923   23.821582

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.172807  -115.045107   -0.105961
-8.58E-05  -0.281604   -78.724626
0.25000   -0.172807   -87.404480   -0.105961
-8.58E-05  -0.150672   -30.295493
0.50000   -0.172807   -61.097628   -0.105961
-8.58E-05  -0.049295   -29.654600
0.75000   -0.172807   -33.013500   -0.105961
-8.58E-05  -0.207632   -29.939779
1.00000   -0.172807   -11.650601   -0.105961
-8.58E-05  -0.394738   -77.807171

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.169106    7.250721    0.216532
0.001187   0.549442   18.505782
0.25000    0.169106   21.842915    0.216532
 0.001187  0.285398   56.755923
0.50000    0.169106   41.110303    0.216532
 0.001187  0.069325   73.038609
0.75000    0.169106   59.169126    0.216532
 0.001187  0.197942   59.789072
1.00000    0.169106   78.084256    0.216532
 0.001187  0.376513   23.866823

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.169581   -79.815790   -0.149615
-0.000447  -0.383457   -56.503777
0.25000   -0.169581   -60.848817   -0.149615
-0.000447  -0.198466   -23.262897
0.50000   -0.169581   -42.797078   -0.149615
-0.000447  -0.041409   -22.814291
0.75000   -0.169581   -23.525776   -0.149615
-0.000447  -0.273551   -23.001154
1.00000   -0.169581    -8.866573   -0.149615
-0.000447  -0.537956   -55.839001

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.189393    6.079898    0.276862
0.000989   0.699755   16.826812
0.25000    0.189393   18.149040    0.276862
 0.000989  0.360566   48.646350
0.50000    0.189393   34.086086    0.276862
 0.000989  0.064737   62.361403
0.75000    0.189393   49.023465    0.276862
 0.000989  0.257585   51.650512
1.00000    0.189393   64.669140    0.276862
 0.000989  0.500314   22.319181
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4539

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.202186   -66.322239   -0.200432
-0.000762  -0.507276   -47.980120
0.25000   -0.202186   -50.633682   -0.200432
-0.000762  -0.259515   -20.501960
0.50000   -0.202186   -35.702162   -0.200432
-0.000762  -0.038371   -20.147973
0.75000   -0.202186   -19.761879   -0.200432
-0.000762  -0.343615   -20.319653
1.00000   -0.202186    -7.636500   -0.200432
-0.000762  -0.683075   -47.498734

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.220975    0.202326    0.217003
2.19E-07   0.545737    1.800233
0.25000    0.220975    0.210466    0.217003
2.19E-07   0.277563    2.281801
0.50000    0.220975    0.229885    0.217003
2.19E-07   0.011005    2.755105
0.75000    0.220975    0.251030    0.217003
2.19E-07   0.214473    3.205525
1.00000    0.220975    0.269583    0.217003
2.19E-07   0.436859    3.649994

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.138836   -0.500136   -0.179891
-0.000561  -0.450698   -2.122424
0.25000   -0.138836   -0.481582   -0.179891
-0.000561  -0.228339   -2.326612
0.50000   -0.138836   -0.460431   -0.179891
-0.000561  -0.007977   -2.557977
0.75000   -0.138836   -0.440996   -0.179891
-0.000561  -0.258664   -2.789518
1.00000   -0.138836   -0.432805   -0.179891
-0.000561  -0.526827   -3.048829

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.283974    0.592730    0.366497
2.19E-07   0.924184    4.029041
0.25000    0.283974    0.828790    0.366497
2.19E-07   0.471552    5.572190
0.50000    0.283974    1.391939    0.366497
2.19E-07   0.023023    6.835349
0.75000    0.283974    2.005151    0.366497
2.19E-07   0.355376    7.346118
1.00000    0.283974    2.543177    0.366497
2.19E-07   0.723839    7.585424

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.235625   -3.081749   -0.298393
-0.000964  -0.748452   -5.110703
0.25000   -0.235625   -2.543669   -0.298393
-0.000964  -0.379928   -4.687420
0.50000   -0.235625   -1.930278   -0.298393
-0.000964  -0.014468   -5.080915
0.75000   -0.235625   -1.366687   -0.298393
-0.000964  -0.434899   -5.476372
1.00000   -0.235625   -1.129141   -0.298393
-0.000964  -0.887633   -6.682928

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.320638    0.549357    0.425267
0.000186   1.078124    6.631167
0.25000    0.320638    0.552883    0.425267
0.000186   0.552075    7.746947
0.50000    0.320638    0.574160    0.425267
0.000186   0.034815    8.985281
0.75000    0.320638    0.593191    0.425267
0.000186   0.388727   10.449826
1.00000    0.320638    0.609888    0.425267
0.000186   0.726965   11.972888
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4540

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.210206   -1.568633   -0.330058
-0.001096  -0.830459   -5.550018
0.25000   -0.210206   -1.551934   -0.330058
-0.001096  -0.422650   -6.029939
0.50000   -0.210206   -1.532898   -0.330058
-0.001096  -0.015933   -6.532696
0.75000   -0.210206   -1.515407   -0.330058
-0.001096  -0.497120   -7.036666
1.00000   -0.210206   -1.508035   -0.330058
-0.001096  -1.023078   -7.564602

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.339059    6.155851    0.411406
0.000489   1.047412   12.918996
0.25000    0.339059   11.851804    0.411406
 0.000489  0.545185   31.573770
0.50000    0.339059   25.440201    0.411406
 0.000489  0.060714   42.965578
0.75000    0.339059   40.236603    0.411406
 0.000489  0.368281   34.687051
1.00000    0.339059   53.218799    0.411406
 0.000489  0.737852   18.897408

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.230621   -54.427883   -0.305765
-0.000974  -0.781532   -36.916235
0.25000   -0.230621   -41.444389   -0.305765
-0.000974  -0.403740   -17.632611
0.50000   -0.230621   -26.643678   -0.305765
-0.000974  -0.034553   -18.083241
0.75000   -0.230621   -13.044613   -0.305765
-0.000974  -0.490777   -18.584051
1.00000   -0.230621    -7.312787   -0.305765
-0.000974  -0.997140   -38.664213

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.064704    0.218762    0.153365
2.19E-06   0.389821    2.633870
0.25000    0.064704    0.218902    0.153365
2.19E-06   0.199680    3.143167
0.50000    0.064704    0.238321    0.153365
2.19E-06   0.014379    3.654178
0.75000    0.064704    0.259466    0.153365
2.19E-06   0.187886    4.187739
1.00000    0.064704    0.278019    0.153365
2.19E-06   0.283063    4.744020

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.084751   -0.681102   -0.117326
-0.000417  -0.295258   -2.156494
0.25000   -0.084751   -0.662548   -0.117326
-0.000417  -0.150276   -2.308743
0.50000   -0.084751   -0.641396   -0.117326
-0.000417  -0.007152   -2.488993
0.75000   -0.084751   -0.621962   -0.117326
-0.000417  -0.178058   -2.668994
1.00000   -0.084751   -0.613771   -0.117326
-0.000417  -0.367736   -2.876923

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.152968    8.728990    0.242420
0.000185   0.624816   13.206447
0.25000    0.152968   17.398072    0.242420
 0.000185  0.334385   40.673261
0.50000    0.152968   38.079233    0.242420
 0.000185  0.060140   56.947504
0.75000    0.152968   60.598946    0.242420
 0.000185  0.205683   42.843682
1.00000    0.152968   80.357486    0.242420
 0.000185  0.399081   17.258939
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4541

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.080498  -81.294945   -0.166633
-0.000542  -0.439384   -50.983851
0.25000   -0.080498   -61.534430   -0.166633
-0.000542  -0.233206   -21.179083
0.50000   -0.080498   -39.008160   -0.166633
-0.000542  -0.033959   -21.409207
0.75000   -0.080498   -18.310762   -0.166633
-0.000542  -0.293253   -21.715261
1.00000   -0.080498    -9.587083   -0.166633
-0.000542  -0.590443   -51.821922

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.264810    8.042101    0.386926
0.000168   0.987402   13.454002
0.25000    0.264810   15.888231    0.386926
 0.000168  0.517466   38.692749
0.50000    0.264810   34.606138    0.386926
 0.000168  0.063732   53.802639
0.75000    0.264810   54.988064    0.386926
 0.000168  0.350390   41.414889
1.00000    0.264810   72.870935    0.386926
 0.000168  0.695876   18.643793

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.168610   -73.919571   -0.288648
-0.000922  -0.742979   -48.058796
0.25000   -0.168610   -56.034912   -0.288648
-0.000922  -0.386024   -21.238192
0.50000   -0.168610   -35.647052   -0.288648
-0.000922  -0.036804   -21.600541
0.75000   -0.168610   -16.914449   -0.288648
-0.000922  -0.464570   -22.031778
1.00000   -0.168610    -9.018905   -0.288648
-0.000922  -0.940391   -49.300271

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.278749    5.188002    0.384426
0.000718   0.979632   12.652279
0.25000    0.278749    9.913938    0.384426
0.000718   0.509669   28.400163
0.50000    0.278749   21.206621    0.384426
0.000718   0.059703   38.172548
0.75000    0.278749   33.497309    0.384426
0.000718   0.336426   31.673139
1.00000    0.278749   44.281020    0.384426
0.000718   0.673729   18.962809

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.232875  -45.612751   -0.279130
-0.000763  -0.712209   -32.089762
0.25000   -0.232875   -34.827462   -0.279130
-0.000763  -0.367410   -16.113955
0.50000   -0.232875   -22.533195   -0.279130
-0.000763  -0.032525   -16.530800
0.75000   -0.232875   -11.237080   -0.279130
-0.000763  -0.457624   -16.987554
1.00000   -0.232875    -6.475917   -0.279130
-0.000763  -0.930462   -33.596759

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.086790    0.188639    0.114393
0.000920   0.287831    3.975542
0.25000    0.086790    0.196779    0.114393
0.000920   0.147627    4.628152
0.50000    0.086790    0.216198    0.114393
0.000920   0.019412    5.332271
0.75000    0.086790    0.237243    0.114393
0.000920   0.097630    6.116978
1.00000    0.086790    0.255896    0.114393
0.000920   0.189302    6.937453
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4542

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.181703   -0.936264   -0.076048
-6.70E-06  -0.187856   -2.769023
0.25000   -0.181703   -0.917709   -0.076048
-6.70E-06  -0.095145   -2.879932
0.50000   -0.181703   -0.896558   -0.076048
-6.70E-06  -0.008972   -3.017811
0.75000   -0.181703   -0.877124   -0.076048
-6.70E-06  -0.140791   -3.156486
1.00000   -0.181703   -0.868933   -0.076048
-6.70E-06  -0.280041   -3.318763

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.182761   12.232307    0.188522
0.001050   0.485450   17.150873
0.25000    0.182761   24.539862    0.188522
0.001050   0.267461   55.886642
0.50000    0.182761   53.901285    0.188522
0.001050   0.076205   78.690896
0.75000    0.182761   85.872933    0.188522
0.001050   0.167886   68.336118
1.00000    0.182761  113.924495    0.188522
0.001050   0.279189   21.646758

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.214140  -115.074183   -0.114063
-6.46E-05  -0.310259   -70.978816
0.25000   -0.214140   -87.019817   -0.114063
-6.46E-05  -0.170263   -28.482470
0.50000   -0.214140   -55.038860   -0.114063
-6.46E-05  -0.043026   -28.598636
0.75000   -0.214140   -25.654385   -0.114063
-6.46E-05  -0.246964   -28.787401
1.00000   -0.214140   -13.269218   -0.114063
-6.46E-05  -0.473670   -71.320337

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.206265    9.007508    0.283924
0.001060   0.728034   16.202674
0.25000    0.206265   17.879276    0.283924
0.001060   0.387488   44.723624
0.50000    0.206265   39.043968    0.283924
0.001060   0.074285   61.841083
0.75000    0.206265   62.090198    0.283924
0.001060   0.235630   47.923146
1.00000    0.206265   82.310699    0.283924
0.001060   0.450553   22.286672

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.209839   -83.758114   -0.185913
-0.000351  -0.485599   -53.866693
0.25000   -0.209839   -63.535592   -0.185913
-0.000351  -0.256582   -23.416245
0.50000   -0.209839   -40.482652   -0.185913
-0.000351  -0.040231   -23.702661
0.75000   -0.209839   -19.301343   -0.185913
-0.000351  -0.348226   -24.066849
1.00000   -0.209839   -10.373702   -0.185913
-0.000351  -0.694800   -54.928194

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.250194    7.608409    0.371952
0.000883   0.948218   14.950104
0.25000    0.250194   14.971024    0.371952
0.000883   0.497255   38.928983
0.50000    0.250194   32.535447    0.371952
0.000883   0.070353   53.458677
0.75000    0.250194   51.661343    0.371952
0.000883   0.326991   42.275031
1.00000    0.250194   68.442180    0.371952
0.000883   0.641889   21.380054
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4543
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261118	-69.858211	-0.264750
-0.000652	-0.679876	-46.350332	
0.25000	-0.261118	-53.075688	-0.264750
-0.000652	-0.353321	-21.212635	
0.50000	-0.261118	-33.944223	-0.264750
-0.000652	-0.038508	-21.547703	
0.75000	-0.261118	-16.366010	-0.264750
-0.000652	-0.450323	-21.980802	
1.00000	-0.261118	-8.957026	-0.264750
-0.000652	-0.906310	-47.723258	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.209507	10.436219	0.299895
0.001204	0.758043	19.697812	
0.25000	0.209507	31.701467	0.299895
0.001204	0.391556	74.973949	
0.50000	0.209507	59.779889	0.299895
0.001204	0.072825	97.936720	
0.75000	0.209507	86.097066	0.299895
0.001204	0.276392	77.505283	
1.00000	0.209507	113.662141	0.299895
0.001204	0.551573	23.866823	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.202186	-115.045107	-0.223980
-0.001205	-0.555551	-78.724626	
0.25000	-0.202186	-87.404480	-0.223980
-0.001205	-0.280870	-30.295493	
0.50000	-0.202186	-61.097628	-0.223980
-0.001205	-0.049295	-29.654600	
0.75000	-0.202186	-33.013500	-0.223980
-0.001205	-0.366501	-29.939779	
1.00000	-0.202186	-11.650601	-0.223980
-0.001205	-0.735342	-77.807171	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.339059	12.232207	0.425267
0.001060	1.078124	17.150873	
0.25000	0.339059	24.539862	0.425267
0.001060	0.552075	55.886642	
0.50000	0.339059	53.901285	0.425267
0.001060	0.076205	78.690896	
0.75000	0.339059	85.873333	0.425267
0.001060	0.388727	58.336118	
1.00000	0.339059	113.924495	0.425267
0.001060	0.796965	22.286672	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261118	-115.074183	-0.330058
-0.001096	-0.830459	-70.978816	
0.25000	-0.261118	-87.019817	-0.330058
-0.001096	-0.422650	-28.482470	
0.50000	-0.261118	-55.033850	-0.330058
-0.001096	-0.034026	-28.598636	
0.75000	-0.261118	-25.654385	-0.330058
-0.001096	-0.497120	-28.787401	
1.00000	-0.261118	-13.269218	-0.330058
-0.001096	-1.023078	-71.320337	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.339059	12.232207	0.425267
0.001204	1.078124	19.697812	
0.25000	0.339059	31.701467	0.425267
0.001204	0.552075	74.973949	
0.50000	0.339059	59.779889	0.425267
0.001204	0.076205	97.936720	
0.75000	0.339059	86.097066	0.425267
0.001204	0.388727	77.505283	
1.00000	0.339059	113.924495	0.425267
0.001204	0.796965	23.866823	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4544

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261118	-115.074183	-0.330058
-0.001205	-0.830459	-78.724626	
0.25000	-0.261118	-87.404480	-0.330058
-0.001205	-0.422650	-30.295493	
0.50000	-0.261118	-61.097628	-0.330058
-0.001205	-0.049295	-29.654600	
0.75000	-0.261118	-33.013500	-0.330058
-0.001205	-0.497120	-29.939779	
1.00000	-0.261118	-13.269218	-0.330058
-0.001205	-1.023078	-77.807171	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.339059	12.232207	0.425267
0.001204	1.078124	19.697812	
0.25000	0.339059	31.701467	0.425267
0.001204	0.552075	74.973949	
0.50000	0.339059	59.779889	0.425267
0.001204	0.076205	97.936720	
0.75000	0.339059	86.097066	0.425267
0.001204	0.388727	77.505283	
1.00000	0.339059	113.924495	0.425267
0.001204	0.796965	23.866823	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261118	-115.074183	-0.330058
-0.001205	-0.830459	-78.724626	
0.25000	-0.261118	-87.404480	-0.330058
-0.001205	-0.422650	-30.295493	
0.50000	-0.261118	-61.097628	-0.330058
-0.001205	-0.049295	-29.654600	
0.75000	-0.261118	-33.013500	-0.330058
-0.001205	-0.497120	-29.939779	
1.00000	-0.261118	-13.269218	-0.330058
-0.001205	-1.023078	-77.807171	

ELEM 442 ========== LENGTH = 4.943051

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.125235	0.126339	0.135705
4.01E-06	0.344757	3.023523	
0.25000	0.125235	0.150446	0.135705
4.01E-06	0.177135	3.205423	
0.50000	0.125235	0.182201	0.135705
4.01E-06	0.013120	3.365699	
0.75000	0.125235	0.211958	0.135705
4.01E-06	0.146596	3.488408	
1.00000	0.125235	0.243187	0.135705
4.01E-06	0.295912	3.589169	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.109964	-0.316916	-0.120843
-0.000367	-0.301454	-1.962442	
0.25000	-0.109964	-0.295662	-0.120843
-0.000367	-0.152125	-1.816544	
0.50000	-0.109964	-0.255909	-0.120843
-0.000367	-0.005448	-1.724348	
0.75000	-0.109964	-0.224152	-0.120843
-0.000367	-0.158751	-1.633325	
1.00000	-0.109964	-0.199998	-0.120843
-0.000367	-0.326410	-1.596140	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.196002	0.592755	0.228226
8.91E-05	0.580249	6.843478	
0.25000	0.190002	1.267744	0.228226
8.91E-05	0.298862	8.648379	
0.50000	0.190002	2.156878	0.228226
8.91E-05	0.027370	9.543305	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4545

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.190002	2.990091	0.228226
8.91E-05	0.242483	9.196939	
1.00000	0.190002	3.864487	0.228226
8.91E-05	0.488608	7.917250	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181711	-4.086311	-0.199454
-0.000690	-0.498068	-5.775697	
0.25000	-0.181711	-3.211215	-0.199454
-0.000690	-0.251711	-4.080439	
0.50000	-0.181711	-2.378113	-0.199454
-0.000690	-0.010891	-3.888843	
0.75000	-0.181711	-1.488930	-0.199454
-0.000690	-0.267337	-3.730095	
1.00000	-0.181711	-0.812619	-0.199454
-0.000690	-0.548984	-5.078808	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.227330	0.575158	0.254909
0.000318	0.650647	11.368139	
0.25000	0.227330	0.596854	0.254909
0.000318	0.336722	11.406512	
0.50000	0.227330	0.625434	0.254909
0.000318	0.041486	11.656498	
0.75000	0.227330	0.652215	0.254909
0.000318	0.260369	12.211218	
1.00000	0.227330	0.680321	0.254909
0.000318	0.526412	12.965072	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.167400	-1.068852	-0.215305
-0.000894	-0.537917	-4.841330	
0.25000	-0.167400	-1.040724	-0.215305
-0.000894	-0.271887	-4.538216	
0.50000	-0.167400	-1.013946	-0.215305
-0.000894	-0.013325	-4.283434	
0.75000	-0.167400	-0.985365	-0.215305
-0.000894	-0.296687	-4.029708	
1.00000	-0.167400	-0.963626	-0.215305
-0.000894	-0.611113	-3.824437	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.234966	6.888376	0.257311
0.000569	0.659621	20.961714	
0.25000	0.234966	19.670971	0.257311
0.000569	0.348056	53.889426	
0.50000	0.234966	36.509552	0.257311
0.000569	0.074374	67.175981	
0.75000	0.234966	52.287925	0.257311
0.000569	0.277762	54.881506	
1.00000	0.234966	68.846795	0.257311
0.000569	0.538841	22.802313	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.198505	-69.349168	-0.216377
-0.000881	-0.545791	-49.744326	
0.25000	-0.198505	-52.777049	-0.216377
-0.000881	-0.280633	-27.624472	
0.50000	-0.198505	-37.000166	-0.216377
-0.000881	-0.036467	-19.980195	
0.75000	-0.198505	-20.161277	-0.216377
-0.000881	-0.312681	-19.957999	
1.00000	-0.198505	-7.353637	-0.216377
-0.000881	-0.627189	-48.483333	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070735	0.227110	0.092667
0.000169	0.236271	4.770615	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4546

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.070735	0.251217	0.092667
0.000169	0.121981	4.770113	
0.50000	0.070735	0.282972	0.092667
0.000169	0.017216	4.880812	
0.75000	0.070735	0.312730	0.092667
0.000169	0.092300	5.112618	
1.00000	0.070735	0.343958	0.092667
0.000169	0.186603	5.418595	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.063435	-0.534235	-0.076365
-0.000385	-0.190814	-1.934531	
0.25000	-0.063435	-0.502982	-0.076365
-0.000385	-0.096474	-1.778778	
0.50000	-0.063435	-0.473228	-0.076365
-0.000385	-0.005136	-1.676728	
0.75000	-0.063435	-0.441472	-0.076365
-0.000385	-0.107956	-1.575850	
1.00000	-0.063435	-0.417318	-0.076365
-0.000385	-0.222344	-1.528811	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.130947	8.904329	0.142031
0.000347	0.373205	19.924902	
0.25000	0.130947	26.405817	0.142031
0.000347	0.206037	64.960323	
0.50000	0.130947	49.459803	0.142031
0.000347	0.070093	82.962204	
0.75000	0.130947	71.063826	0.142031
0.000347	0.156569	65.714880	
1.00000	0.130947	93.735658	0.142031
0.000347	0.289044	21.226038	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.070934	-94.164588	-0.114190
-0.000556	-0.296028	-64.409858	
0.25000	-0.070934	-71.474615	-0.114190
-0.000556	-0.157972	-24.742394	
0.50000	-0.070934	-49.873451	-0.114190
-0.000556	-0.039594	-24.062707	
0.75000	-0.070934	-26.818225	-0.114190
-0.000556	-0.178185	-24.234752	
1.00000	-0.070934	-9.282447	-0.114190
-0.000556	-0.349114	-63.493090	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.203696	8.125737	0.233440
0.000306	0.604421	20.517512	
0.25000	0.203696	23.941264	0.233440
0.000306	0.323492	61.332206	
0.50000	0.203696	44.776490	0.233440
0.000306	0.074052	77.711594	
0.75000	0.203696	64.300456	0.233440
0.000306	0.253631	62.231599	
1.00000	0.203696	84.789421	0.233440
0.000306	0.487736	22.140811	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.135994	-85.251159	-0.195731
-0.000788	-0.498430	-59.704073	
0.25000	-0.135994	-64.745769	-0.195731
-0.000788	-0.259278	-23.781763	
0.50000	-0.135994	-45.224387	-0.195731
-0.000788	-0.040071	-23.093447	
0.75000	-0.135994	-24.388941	-0.195731
-0.000788	-0.263697	-23.174859	
1.00000	-0.135994	-8.541525	-0.195731
-0.000788	-0.567980	-58.579295	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4547

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.213825	5.790547	0.247075
0.000769	0.630106	20.789622	
0.25000	0.213825	16.168495	0.247075
0.000769	0.329823	47.460825	
0.50000	0.213825	29.838937	0.247075
0.000769	0.072424	58.287842	
0.75000	0.213825	42.649587	0.247075
0.000769	0.264070	48.467905	
1.00000	0.213825	56.093421	0.247075
0.000769	0.513233	22.697779	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.205519	-56.643379	-0.205834
-0.000869	-0.516530	-41.472056	
0.25000	-0.205519	-43.188787	-0.205834
-0.000869	-0.263972	-17.759663	
0.50000	-0.205519	-30.379833	-0.205834
-0.000869	-0.032483	-17.166056	
0.75000	-0.205519	-16.708656	-0.205834
-0.000869	-0.301206	-17.077505	
1.00000	-0.205519	-6.310374	-0.205834
-0.000869	-0.603698	-40.166156	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.068048	0.361610	0.097804
0.000769	0.239039	7.276725	
0.25000	0.068048	0.385817	0.097804
0.000769	0.118257	7.277123	
0.50000	0.068048	0.417572	0.097804
0.000769	0.023669	7.390533	
0.75000	0.068048	0.447329	0.097804
0.000769	0.157479	7.595206	
1.00000	0.068048	0.478558	0.097804
0.000769	0.211214	8.103754	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.157479	-0.727829	-0.083566
-0.000269	-0.201925	-2.296741	
0.25000	-0.157479	-0.696576	-0.083566
-0.000269	-0.098783	-2.095069	
0.50000	-0.157479	-0.666822	-0.083566
-0.000269	-0.005884	-1.947100	
0.75000	-0.157479	-0.635066	-0.083566
-0.000269	-0.123605	-1.800303	
1.00000	-0.157479	-0.610912	-0.083566
-0.000269	-0.244478	-1.707345	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.121971	10.847638	0.144442
0.000962	0.368169	23.822317	
0.25000	0.121971	32.157990	0.144442
0.000962	0.199570	78.718854	
0.50000	0.121971	60.229235	0.144442
0.000962	0.081990	100.625714	
0.75000	0.121971	86.534959	0.144442
0.000962	0.177453	79.535931	
1.00000	0.121971	114.140881	0.144442
0.000962	0.316904	25.226906	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.197200	-114.611338	-0.121377
-0.000407	-0.308414	-77.808972	
0.25000	-0.197200	-86.983326	-0.121377
-0.000407	-0.162113	-29.517132	
0.50000	-0.197200	-60.681083	-0.121377
-0.000407	-0.046303	-28.698012	
0.75000	-0.197200	-32.608329	-0.121377
-0.000407	-0.195597	-28.915988	
1.00000	-0.197200	-11.256223	-0.121377
-0.000407	-0.369065	-76.726640	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4548

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167854	7.807606	0.194411
0.001072	0.494779	23.853640	
0.25000	0.167854	22.430750	0.194411
0.001072	0.261482	61.428251	
0.50000	0.167854	41.693213	0.194411
0.001072	0.081457	76.548678	
0.75000	0.167854	59.744177	0.194411
0.001072	0.214720	62.441030	
1.00000	0.167854	78.687336	0.194411
0.001072	0.404060	25.714093	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.194270	-79.284942	-0.159042
-0.000683	-0.399586	-55.837893	
0.25000	-0.194270	-60.326625	-0.159042
-0.000683	-0.205576	-22.555421	
0.50000	-0.194270	-42.278050	-0.159042
-0.000683	-0.038361	-21.848686	
0.75000	-0.194270	-23.014551	-0.159042
-0.000683	-0.246707	-21.853606	
1.00000	-0.194270	-8.362756	-0.159042
-0.000683	-0.483128	-54.516576	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.201181	6.559464	0.246454
0.000917	0.627001	22.288781	
0.25000	0.201181	18.655017	0.246454
0.000917	0.328298	53.390008	
0.50000	0.201181	34.587989	0.246454
0.000917	0.077431	65.971602	
0.75000	0.201181	49.518868	0.246454
0.000917	0.267376	54.433818	
1.00000	0.201181	65.187727	0.246454
0.000917	0.515481	24.242186	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.223522	-65.779335	-0.205611
-0.000838	-0.515303	-47.495424	
0.25000	-0.223522	-50.097938	-0.205611
-0.000838	-0.263341	-19.898840	
0.50000	-0.223522	-35.169035	-0.205611
-0.000838	-0.035422	-19.247322	
0.75000	-0.223522	-19.235206	-0.205611
-0.000838	-0.304151	-19.184449	
1.00000	-0.223522	-7.115954	-0.205611
-0.000838	-0.605400	-46.134727	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.261043	0.175266	0.183561
3.62E-06	0.468965	3.597779	
0.25000	0.261043	0.183435	0.183561
3.62E-06	0.242246	3.840009	
0.50000	0.261043	0.202852	0.183561
3.62E-06	0.017020	4.075586	
0.75000	0.261043	0.223195	0.183561
3.62E-06	0.189912	4.286141	
1.00000	0.261043	0.242543	0.183561
3.62E-06	0.388137	4.489924	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.138115	-0.371128	-0.160823
-0.000314	-0.405367	-3.001598	
0.25000	-0.138115	-0.352578	-0.160823
-0.000314	-0.206442	-3.051148	
0.50000	-0.138115	-0.331434	-0.160823
-0.000314	-0.008525	-3.128619	
0.75000	-0.138115	-0.312010	-0.160823
-0.000314	-0.212472	-3.206191	
1.00000	-0.138115	-0.303628	-0.160823
-0.000314	-0.438598	-3.311726	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4549

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.324704	0.620255	0.304908
8.56E-05	0.781938	7.497890	
0.25000	0.324704	0.857254	0.304908
8.56E-05	0.405575	8.573205	
0.50000	0.324704	1.420359	0.304908
8.56E-05	0.033594	9.352375	
0.75000	0.324704	2.033508	0.304908
8.56E-05	0.313091	9.373096	
1.00000	0.324704	2.517407	0.304908
8.56E-05	0.640600	9.132557	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.253146	-2.846476	-0.265683
-0.000580	-0.671342	-6.605095	
0.25000	-0.253146	-2.308518	-0.265683
-0.000580	-0.342887	-5.921853	
0.50000	-0.253146	-1.695353	-0.265683
-0.000580	-0.015753	-6.048003	
0.75000	-0.253146	-1.132056	-0.265683
-0.000580	-0.349595	-6.179275	
1.00000	-0.253146	-0.894781	-0.265683
-0.000580	-0.725844	-7.122690	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.353038	0.750817	0.339470
0.000289	0.879108	11.874133	
0.25000	0.353038	0.758169	0.339470
0.000289	0.459489	12.242834	
0.50000	0.353038	0.775645	0.339470
0.000289	0.049859	12.727022	
0.75000	0.353038	0.794674	0.339470
0.000289	0.336769	13.436133	
1.00000	0.353038	0.811367	0.339470
0.000289	0.686754	14.249503	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.225793	-1.255926	-0.285569
-0.000750	-0.724157	-7.480447	
0.25000	-0.225793	-1.239231	-0.285569
-0.000750	-0.371513	-7.612894	
0.50000	-0.225793	-1.220202	-0.285569
-0.000750	-0.021061	-7.769721	
0.75000	-0.225793	-1.202720	-0.285569
-0.000750	-0.384727	-7.927064	
1.00000	-0.225793	-1.195357	-0.285569
-0.000750	-0.802552	-8.109242	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.372722	6.455174	0.335111
0.000489	0.862556	18.817725	
0.25000	0.372722	12.171392	0.335111
0.000489	0.455490	36.727498	
0.50000	0.372722	25.758713	0.335111
0.000489	0.077423	47.205095	
0.75000	0.372722	40.553578	0.335111
0.000489	0.345998	38.063207	
1.00000	0.372722	53.532726	0.335111
0.000489	0.676875	21.452823	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.250312	-54.088908	-0.275337

```
-0.000746   -0.697645   -38.601394
0.25000     -0.250312   -41.108344     -0.275337
-0.000746   -0.359218   -19.096030
0.50000     -0.250312   -26.313116     -0.275337
-0.000746   -0.035478   -19.121038
0.75000     -0.250312   -12.721128     -0.275337
-0.000746   -0.399623   -19.273420
1.00000     -0.250312   -6.995860      -0.275337
-0.000746   -0.811537   -39.022899
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              4550

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.064745     0.310065     0.120767
0.000154    0.313807     4.708334
0.25000     0.064745     0.318234     0.120767
0.000154    0.163987     4.921896
0.50000     0.064745     0.337651     0.120767
0.000154    0.019864     5.128082
0.75000     0.064745     0.358794     0.120767
0.000154    0.118381     5.356956
1.00000     0.064745     0.377343     0.120767
0.000154    0.242769     5.608478

COMB DL-G2-1 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.107155    -0.559526    -0.101498
-0.000312   -0.258145    -2.847233
0.25000     -0.107155    -0.540976    -0.101498
-0.000312   -0.132467    -2.874878
0.50000     -0.107155    -0.519832    -0.101498
-0.000312   -0.007879    -2.930669
0.75000     -0.107155    -0.500408    -0.101498
-0.000312   -0.134224    -2.986325
1.00000     -0.107155    -0.492226    -0.101498
-0.000312   -0.283055    -3.070169

COMB DL-G2-2 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.153991     9.019291     0.180238
0.000305    0.478355     17.211085
0.25000     0.153991     17.719215    0.180238
0.000305    0.265503     44.251328
0.50000     0.153991     38.398739    0.180238
0.000305    0.071110     59.856355
0.75000     0.153991     60.915111    0.180238
0.000305    0.184731     45.149080
1.00000     0.153991     80.670013    0.180238
0.000305    0.346190     18.991274

COMB DL-G2-2 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.099515    -81.099459   -0.141203
-0.000449   -0.374573    -51.783565
0.25000     -0.099515    -61.343402   -0.141203
-0.000449   -0.200986    -21.964030
0.50000     -0.099515    -38.825478   -0.141203
-0.000449   -0.034160    -21.869918
0.75000     -0.099515    -18.138851   -0.141203
-0.000449   -0.217983    -21.970175
1.00000     -0.099515    -9.425153    -0.141203
-0.000449   -0.438235    -51.896633

COMB DL-G2-3 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.283027     8.284259     0.303565
0.000267    0.792352     18.560088
0.25000     0.283027     16.158303    0.303565
0.000267    0.426269     43.216427
0.50000     0.283027     34.874729    0.303565
0.000267    0.078269     57.518395
0.75000     0.283027     55.254536    0.303565
0.000267    0.312181     44.372924
1.00000     0.283027     73.133208    0.303565
0.000267    0.611181     20.876536

COMB DL-G2-3 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.188122    -73.632189   -0.251223
-0.000650   -0.441771    -49.086686
0.25000     -0.188122    -55.751566   -0.251223
-0.000650   -0.340348    -22.271391
0.50000     -0.188122    -35.371259   -0.251223
-0.000650   -0.037614    -22.246608
0.75000     -0.188122    -16.648405   -0.251223
-0.000650   -0.358756    -22.397842
1.00000     -0.188122    -8.719194    -0.251223
-0.000650   -0.731156    -49.543905
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              4551

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.295202     5.554476     0.319957
0.000646    0.818841     18.900033
0.25000     0.295202     10.302674    0.319957
0.000646    0.428639     33.825496
0.50000     0.295202     21.589034    0.319957
0.000646    0.076643     42.624746
0.75000     0.295202     33.878445    0.319957
0.000646    0.331448     35.192952
1.00000     0.295202     44.659624    0.319957
0.000646    0.645439     21.607254

COMB DL-G2-4 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.259489    -45.252293   -0.260226
-0.000721   -0.652094    -33.600815
0.25000     -0.259489    -34.469938   -0.260226
-0.000721   -0.333021    -11.589406
0.50000     -0.259489    -22.180226   -0.260226
-0.000721   -0.033592    -17.364899
0.75000     -0.259489    -10.889990   -0.260226
-0.000721   -0.384122    -17.500239
1.00000     -0.259489    -6.134274    -0.260226
-0.000721   -0.777509    -33.913740

COMB DL-G3-1 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.086299     0.409571     0.124529
0.000659    0.299504     6.952797
0.25000     0.086299     0.417740     0.124529
0.000659    0.145806     7.150250
0.50000     0.086299     0.437157     0.124529
0.000659    0.026655     7.393794
0.75000     0.086299     0.458300     0.124529
0.000659    0.141420     7.732245
1.00000     0.086299     0.476848     0.124529
0.000659    0.265238     8.115171

COMB DL-G3-1 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.202639    -0.751874    -0.100361
-0.000235   -0.230181    -3.347060
0.25000     -0.202639    -0.733323    -0.100361
-0.000235   -0.106347    -3.331430
0.50000     -0.202639    -0.712180    -0.100361
-0.000235   -0.009344    -3.348005
0.75000     -0.202639    -0.692756    -0.100361
-0.000235   -0.162446    -3.358611
1.00000     -0.202639    -0.684574    -0.100361
-0.000235   -0.316307    -3.400456

COMB DL-G3-2 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.190322     12.597519    0.180088
0.000775    0.448974     21.657819
0.25000     0.190322     24.948961    0.180088
0.000775    0.241459     59.939870
0.50000     0.190322     54.308060    0.180088
0.000775    0.087954     81.951823
0.75000     0.190322     86.276386    0.180088
0.000775    0.216171     60.900881
1.00000     0.190322     114.321362   0.180088
0.000775    0.372456     23.538937

COMB DL-G3-2 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.236990    -114.830271  -0.138582
-0.000322   -0.344039    -71.347005
0.25000     -0.236990    -86.782235   -0.138582
-0.000322   -0.174940    -28.911137
0.50000     -0.236990    -54.813126   -0.138582
-0.000322   -0.042523    -28.681934
0.75000     -0.236990    -25.443943   -0.138582
-0.000322   -0.253768    -28.734314
1.00000     -0.236990    -13.072946   -0.138582
-0.000322   -0.474417    -71.131872
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              4552

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.207173     9.482436     0.246802
0.000878    0.627391     22.270213
0.25000     0.207173     18.385767    0.246802
0.000878    0.332532     50.041382
0.50000     0.207173     39.548784    0.246802
0.000878    0.090047     66.167322
0.75000     0.207173     62.592619    0.246802
0.000878    0.268657     51.328825
1.00000     0.207173     82.808372    0.246802
0.000878    0.492775     24.813938

COMB DL-G3-3 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.239841    -83.434448   -0.192012
-0.000538   -0.478922    -54.931281
0.25000     -0.239841    -63.216489   -0.192012
-0.000538   -0.242611    -24.400817
0.50000     -0.239841    -40.117249   -0.192012
-0.000538   -0.040481    -24.291870
0.75000     -0.239841    -19.001803   -0.192012
-0.000538   -0.316209    -24.381184
1.00000     -0.239841    -10.084376   -0.192012
-0.000538   -0.618288    -54.993750

COMB DL-G3-4 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.257929     8.013825     0.317685
0.000752    0.810322     21.333875
0.25000     0.257929     15.402634    0.317685
0.000752    0.426192     44.506438
0.50000     0.257929     32.965666    0.317685
0.000752    0.087256     58.019677
0.75000     0.257929     52.089575    0.317685
0.000752    0.338904     45.872164
1.00000     0.257929     68.866480    0.317685
0.000752    0.647025     24.062421

COMB DL-G3-4 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.296798    -69.495727   -0.258074
-0.000670   -0.646988    -47.700959
0.25000     -0.296798    -52.716992   -0.258074
-0.000670   -0.329065    -22.386107
0.50000     -0.296798    -33.592614   -0.258074
-0.000670   -0.039303    -22.317853
0.75000     -0.296798    -16.023549   -0.258074
-0.000670   -0.391163    -22.414046
1.00000     -0.296798    -8.623042    -0.258074
-0.000670   -0.781379    -47.843692

COMB      DB ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.234966     10.847638    0.257311
0.001072    0.659621     23.853640
0.25000     0.234966     32.157990    0.257311
0.001072    0.348056     78.718854
0.50000     0.234966     60.229235    0.257311
0.001072    0.081990     100.625714
0.75000     0.234966     86.534959    0.257311
0.001072    0.277762     79.535931
1.00000     0.234966     114.140881   0.257311
0.001072    0.538841     25.714093

COMB      DB ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.223522    -114.611338  -0.216377
-0.000894   -0.545791    -77.808972
0.25000     -0.223522    -86.983326   -0.216377
-0.000894   -0.280633    -29.517132
0.50000     -0.223522    -60.681083   -0.216377
-0.000894   -0.046303    -28.698012
0.75000     -0.223522    -32.608329   -0.216377
-0.000894   -0.312681    -28.915988
1.00000     -0.223522    -11.256223   -0.216377
-0.000894   -0.627189    -76.726640
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              4553

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.372722     12.597519    0.339470
0.000878    0.879108     22.270213
0.25000     0.372722     24.948961    0.339470
0.000878    0.459489     59.939870
0.50000     0.372722     54.308060    0.339470
0.000878    0.090047     81.951823
0.75000     0.372722     86.276386    0.339470
0.000878    0.345998     60.900881
1.00000     0.372722     114.321362   0.339470
0.000878    0.686754     24.813938

COMB      DL ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.296798    -114.830271  -0.285569
-0.000750   -0.724157    -71.347005
0.25000     -0.296798    -86.782235   -0.285569
-0.000750   -0.371513    -28.911137
0.50000     -0.296798    -54.813126   -0.285569
-0.000750   -0.042523    -28.681934
0.75000     -0.296798    -25.443943   -0.285569
-0.000750   -0.399623    -28.734314
1.00000     -0.296798    -13.072946   -0.285569
-0.000750   -0.811537    -71.131872

COMB      CAR ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.372722     12.597519    0.339470
0.001072    0.879108     23.853640
0.25000     0.372722     32.157990    0.339470
0.001072    0.459489     78.718854
0.50000     0.372722     60.229235    0.339470
0.001072    0.090047     100.625714
0.75000     0.372722     86.534959    0.339470
0.001072    0.345998     79.535931
1.00000     0.372722     114.321362   0.339470
0.001072    0.686754     25.714093

COMB      CAR ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.296798    -114.830271  -0.285569
-0.000894   -0.724157    -77.808972
0.25000     -0.296798    -86.983326   -0.285569
-0.000894   -0.371513    -29.517132
0.50000     -0.296798    -60.681083   -0.285569
-0.000894   -0.046303    -28.698012
0.75000     -0.296798    -32.608329   -0.285569
-0.000894   -0.399623    -28.915988
1.00000     -0.296798    -13.072946   -0.285569
-0.000894   -0.811537    -76.726640

COMB   DESIGN ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.372722     12.597519    0.339470
0.001072    0.879108     23.853640
0.25000     0.372722     32.157990    0.339470
0.001072    0.459489     78.718854
0.50000     0.372722     60.229235    0.339470
0.001072    0.090047     100.625714
0.75000     0.372722     86.534959    0.339470
0.001072    0.345998     79.535931
1.00000     0.372722     114.321362   0.339470
0.001072    0.686754     25.714093

COMB   DESIGN ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.296798    -114.830271  -0.285569
-0.000894   -0.724157    -77.808972
0.25000     -0.296798    -86.983326   -0.285569
-0.000894   -0.371513    -29.517132
0.50000     -0.296798    -60.681083   -0.285569
-0.000894   -0.046303    -28.698012
0.75000     -0.296798    -32.608329   -0.285569
-0.000894   -0.399623    -28.915988
1.00000     -0.296798    -13.072946   -0.285569
-0.000894   -0.811537    -76.726640
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              4554

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      443 ================== LENGTH =   4.942656

COMB DB-G1-1 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.143143     0.120004     0.108414
6.97E-06    0.278793     3.579293
0.25000     0.143143     0.144117     0.108414
6.97E-06    0.144860     3.624495
0.50000     0.143143     0.175872     0.108414
6.97E-06    0.014325     3.647491
0.75000     0.143143     0.205629     0.108414
6.97E-06    0.113445     3.633338
1.00000     0.143143     0.236857     0.108414
6.97E-06    0.273368     3.596850

COMB DB-G1-1 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.104531    -0.231217    -0.112403
-6.60E-06   -0.282236    -1.598479
0.25000     -0.104531    -0.199983    -0.112403
-6.60E-06   -0.143358    -1.437814
0.50000     -0.104531    -0.170228    -0.112403
-6.60E-06   -0.004270    -1.291127
0.75000     -0.104531    -0.138473    -0.112403
-6.60E-06   -0.123596    -1.577874
1.00000     -0.104531    -0.114350    -0.112403
-6.60E-06   -0.257540    -1.758312

COMB DB-G1-2 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.215418     0.642671     0.183401
0.000181    0.471602     7.897187
0.25000     0.215418     1.317859     0.183401
0.000181    0.245671     9.448495
0.50000     0.215418     2.206984     0.183401
0.000181    0.029372     10.060854
0.75000     0.215418     3.040172     0.183401
0.000181    0.222427     9.466040
1.00000     0.215418     3.914578     0.183401
0.000181    0.451420     7.934193

COMB DB-G1-2 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.175314    -3.922000    -0.185531
-0.000180   -0.466277    -5.083037
0.25000     -0.175314    -3.047450    -0.185531
-0.000180   -0.237221    -3.368382
0.50000     -0.175314    -2.214310    -0.185531
-0.000180   -0.008816    -3.375186
0.75000     -0.175314    -1.325159    -0.185531
-0.000180   -0.209886    -3.620125
1.00000     -0.175314    -0.649710    -0.185531
-0.000180   -0.436203    -5.368430

COMB DB-G1-3 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.247364     0.702752     0.203624
0.000422    0.523869     12.924502
0.25000     0.247364     0.724454     0.203624
0.000422    0.272845     12.594184
0.50000     0.247364     0.753033     0.203624
0.000422    0.044047     12.442791
0.75000     0.247364     0.779814     0.203624
0.000422    0.235770     12.627677
1.00000     0.247364     0.807920     0.203624
0.000422    0.480650     12.993365

COMB DB-G1-3 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.164505    -0.827366    -0.198132
-0.000420   -0.498696    -3.828889
0.25000     -0.164505    -0.799255    -0.198132
-0.000420   -0.253842    -3.507750
0.50000     -0.164505    -0.772476    -0.198132
-0.000420   -0.010485    -3.531936
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              4555

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2             V3
          T              M2             M3
0.75000     -0.164505    -0.743896    -0.198132
-0.000420   -0.231902    -3.847165
1.00000     -0.164505    -0.722185    -0.198132
-0.000420   -0.482976    -4.210717

COMB DB-G1-4 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.250443     7.070905     0.210459
0.000575    0.542618     22.753441
0.25000     0.250443     19.857280    0.210459
0.000575    0.289241     55.299129
0.50000     0.250443     36.695073    0.210459
0.000575    0.077119     68.062898
0.75000     0.250443     52.473580    0.210459
0.000575    0.281264     55.345847
1.00000     0.250443     69.032630    0.210459
0.000575    0.540937     22.836950

COMB DB-G1-4 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.202753    -69.061453   -0.214990
-0.000575   -0.540417    -48.505303
0.25000     -0.202753    -52.499661   -0.214990
-0.000575   -0.278445    -19.413594
0.50000     -0.202753    -36.722082   -0.214990
-0.000575   -0.033435    -19.099940
0.75000     -0.202753    -19.883776   -0.214990
-0.000575   -0.256263    -19.744023
1.00000     -0.202753    -7.092474    -0.214990
-0.000575   -0.514840    -48.858074

COMB DB-G2-1 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.075596     0.313177     0.075539
0.000290    0.193934     5.403608
0.25000     0.075596     0.337590     0.075539
0.000290    0.100882     5.259563
0.50000     0.075596     0.369045     0.075539
0.000290    0.018160     5.185077
0.75000     0.075596     0.398802     0.075539
0.000290    0.083617     5.273427
1.00000     0.075596     0.430030     0.075539
0.000290    0.170400     5.430821

COMB DB-G2-1 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.063476    -0.439611    -0.070203
-0.000274   -0.176617    -1.530062
0.25000     -0.063476    -0.408385    -0.070203
-0.000274   -0.089904    -1.369874
0.50000     -0.063476    -0.378630    -0.070203
-0.000274   -0.003987    -1.378813
0.75000     -0.063476    -0.346875    -0.070203
-0.000274   -0.088287    -1.501182
1.00000     -0.063476    -0.322752    -0.070203
-0.000274   -0.179567    -1.677242

COMB DB-G2-2 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.131950     9.089147     0.107686
0.000463    0.285814     21.175797
0.25000     0.131950     26.595811    0.107686
0.000463    0.161617     65.980332
0.50000     0.131950     49.649535    0.107686
0.000463    0.071807     83.562437
0.75000     0.131950     71.252922    0.107686
0.000463    0.157403     66.025515
1.00000     0.131950     93.925002    0.107686
0.000463    0.293884     21.251549

COMB DB-G2-2 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.075022    -93.957264   -0.116116
-0.000461   -0.297878    -63.519015
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD              >
                              4556

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2             V3
          T              M2             M3
0.25000     -0.075022    -71.281430   -0.116116
-0.000461   -0.159323    -23.902496
0.50000     -0.075022    -49.679314   -0.116116
-0.000461   -0.037480    -23.457111
0.75000     -0.075022    -26.624886   -0.116116
-0.000461   -0.138534    -24.097130
1.00000     -0.075022    -9.111476    -0.116116
-0.000461   -0.269809    -63.717247

COMB DB-G2-3 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.217267     8.291114     0.181285
0.000509    0.474354     22.086461
0.25000     0.217267     24.112218    0.181285
0.000509    0.258431     62.590338
0.50000     0.217267     44.946308    0.181285
0.000509    0.076423     78.482869
0.75000     0.217267     64.469699    0.181285
0.000509    0.244832     62.637630
1.00000     0.217267     84.958888    0.181285
0.000509    0.474262     22.167469

COMB DB-G2-3 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.135895    -84.993846   -0.190788
-0.000506   -0.484855    -58.604246
0.25000     -0.135895    -64.501263   -0.190788
-0.000506   -0.253560    -22.717322
0.50000     -0.135895    -44.979020   -0.190788
-0.000506   -0.037248    -22.326396
0.75000     -0.135895    -24.144295   -0.190788
-0.000506   -0.220680    -23.005164
1.00000     -0.135895    -8.317094    -0.190788
-0.000506   -0.442925    -58.910988

COMB DB-G2-4 ------------------ MAX

REL DIST          P              V2             V3
          T              M2             M3
0.00000     0.223036     6.011373     0.210738
0.000800    0.538203     22.657338
0.25000     0.223036     16.392390    0.210738
0.000800    0.283153     48.924042
0.50000     0.223036     30.062677    0.210738
0.000800    0.075164     59.216940
0.75000     0.223036     42.872950    0.210738
0.000800    0.274251     48.965209
1.00000     0.223036     56.316931    0.210738
0.000800    0.522798     22.730703

COMB DB-G2-4 ------------------ MIN

REL DIST          P              V2             V3
          T              M2             M3
0.00000     -0.214635    -56.345841   -0.208538
```

-0.000800 -0.520586 -40.184801
0.25000 -0.214635 -42.899633 -0.208538
-0.000800 -0.265812 -16.503519
0.50000 -0.214635 -30.090114 -0.208538
-0.000800 -0.026475 -16.245747
0.75000 -0.214635 -16.419410 -0.208538
-0.000800 -0.258274 -16.836534
1.00000 -0.214635 -6.034392 -0.208538
-0.000800 -0.517421 -40.541553

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.063405	0.488555	0.105878
0.000531	0.257397	8.124050	
0.25000	0.063405	0.512669	0.105878
0.000531	0.126577	7.915951	
0.50000	0.063405	0.544424	0.105878
0.000531	0.024861	7.817135	
0.75000	0.063405	0.574180	0.105878
0.000531	0.129489	7.911885	
1.00000	0.063405	0.605409	0.105878
0.000531	0.249172	8.116348	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4557

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.170263	-0.600624	-0.097284
-0.000569	-0.231797	-1.709653	
0.25000	-0.170263	-0.569391	-0.097284
-0.000569	-0.111786	-1.524628	
0.50000	-0.170263	-0.539636	-0.097284
-0.000569	-0.004999	-1.517057	
0.75000	-0.170263	-0.507880	-0.097284
-0.000569	-0.135131	-1.654159	
1.00000	-0.170263	-0.483757	-0.097284
-0.000569	-0.265975	-1.844952	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.115479	11.063432	0.139066
0.000709	0.351579	25.216425	
0.25000	0.115479	32.380085	0.139066
0.000709	0.190071	79.851906	
0.50000	0.115479	60.451011	0.139066
0.000709	0.083801	101.295605	
0.75000	0.115479	86.755962	0.139066
0.000709	0.223960	79.878638	
1.00000	0.115479	114.362185	0.139066
0.000709	0.397738	25.251841	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.213825	-114.379243	-0.150108
-0.000723	-0.366575	-76.758555	
0.25000	-0.213825	-86.768447	-0.150108
-0.000723	-0.186907	-28.551638	
0.50000	-0.213825	-60.465044	-0.150108
-0.000723	-0.044613	-27.988516	
0.75000	-0.213825	-32.393261	-0.150108
-0.000723	-0.193860	-28.718177	
1.00000	-0.213825	-11.068393	-0.150108
-0.000723	-0.363983	-76.911209	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.161985	8.083244	0.178238
0.000906	0.450600	25.689736	
0.25000	0.161985	22.710713	0.178238
0.000906	0.237460	62.877467	
0.50000	0.161985	41.972957	0.178238
0.000906	0.083940	77.456825	
0.75000	0.161985	60.023390	0.178238
0.000906	0.241317	62.912681	
1.00000	0.161985	78.966756	0.178238
0.000906	0.449917	25.748396	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.211758	-78.990002	-0.175877
-0.000920	-0.434548	-54.540487	
0.25000	-0.211758	-60.043499	-0.175877
-0.000920	-0.221653	-21.319343	
0.50000	-0.211758	-41.994128	-0.175877
-0.000920	-0.035839	-20.937108	
0.75000	-0.211758	-22.731295	-0.175877
-0.000920	-0.230948	-21.595098	
1.00000	-0.211758	-8.098190	-0.175877
-0.000920	-0.449743	-54.822409	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.205089	6.816148	0.216537
0.000884	0.550431	24.214018	
0.25000	0.205089	18.915278	0.216537
0.000884	0.289092	54.899609	
0.50000	0.205089	34.848069	0.216537
0.000884	0.080179	66.921676	
0.75000	0.205089	49.778509	0.216537
0.000884	0.281721	54.935218	
1.00000	0.205089	65.447539	0.216537
0.000884	0.539146	24.275222	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4558

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.236002	-65.472041	-0.214178
-0.000895	-0.532009	-46.155562	
0.25000	-0.236002	-49.800416	-0.214178
-0.000895	-0.271042	-18.209313	
0.50000	-0.236002	-34.870854	-0.214178
-0.000895	-0.032529	-18.295808	
0.75000	-0.236002	-18.937577	-0.214178
-0.000895	-0.269882	-18.927496	
1.00000	-0.236002	-6.833785	-0.214178
-0.000895	-0.536128	-46.498943	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.275387	0.201042	0.144787
5.69E-06	0.371674	4.468158	
0.25000	0.275387	0.209212	0.144787
5.69E-06	0.192569	4.533280	
0.50000	0.275387	0.228630	0.144787
5.69E-06	0.018762	4.591870	
0.75000	0.275387	0.249774	0.144787
5.69E-06	0.172412	4.623325	
1.00000	0.275387	0.268324	0.144787
5.69E-06	0.351488	4.648755	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.130986	-0.270169	-0.144835
-5.49E-06 -0.364246 -3.275215
0.25000 -0.130986 -0.251620 -0.144835
-5.49E-06 -0.184939 -3.294609
0.50000 -0.130986 -0.230477 -0.144835
-5.49E-06 -0.008097 -3.341809
0.75000 -0.130986 -0.211056 -0.144835
-5.49E-06 -0.165040 -3.389258
1.00000 -0.130986 -0.202882 -0.144835
-5.49E-06 -0.343719 -3.464534

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.339777	0.700008	0.236292
0.000155	0.608302	9.088947	
0.25000	0.339777	0.936938	0.236292
0.000155	0.316183	9.844830	
0.50000	0.339777	1.500059	0.236292
0.000155	0.036605	10.296722	
0.75000	0.339777	2.113241	0.236292
0.000155	0.284245	10.008837	
1.00000	0.339777	2.651201	0.236292
0.000155	0.578129	9.416858	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.254837	-2.660235	-0.237904
-0.000154	-0.598336	-7.062395	
0.25000	-0.254837	-2.122999	-0.237904
-0.000154	-0.304221	-6.533998	
0.50000	-0.254837	-1.509174	-0.237904
-0.000154	-0.015177	-6.414695	
0.75000	-0.254837	-0.945961	-0.237904
-0.000154	-0.267615	-6.502754	
1.00000	-0.254837	-0.708896	-0.237904
-0.000154	-0.560066	-7.399461	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.364196	0.901883	0.260033
0.000362	0.671206	14.179949	
0.25000	0.364196	0.909236	0.260033
0.000362	0.349030	14.081020	
0.50000	0.364196	0.926712	0.260033
0.000362	0.054172	14.082883	
0.75000	0.364196	0.945742	0.260033
0.000362	0.314494	14.315966	
1.00000	0.364196	0.962407	0.260033
0.000362	0.633265	14.648494	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4559

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.228801	-0.982563	-0.259267
-0.000361	-0.648878	-8.046059	
0.25000	-0.228801	-0.965869	-0.259267
-0.000361	-0.329076	-8.132043	
0.50000	-0.228801	-0.946841	-0.259267
-0.000361	-0.020400	-8.243017	
0.75000	-0.228801	-0.929362	-0.259267
-0.000361	-0.293111	-8.353923	
1.00000	-0.228801	-0.922005	-0.259267
-0.000361	-0.614279	-8.489857	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.385449	6.661756	0.276883
0.000484	0.704636	21.393114	
0.25000	0.385449	12.378714	0.276883
0.000484	0.389512	38.794507	
0.50000	0.385449	25.966446	0.276883
0.000484	0.082116	48.716782	
0.75000	0.385449	40.762095	0.276883
0.000484	0.363181	39.048096	
1.00000	0.385449	53.742708	0.276883
0.000484	0.699316	21.893215	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.256381	-53.770062	-0.277936
-0.000483	-0.690516	-38.996233	
0.25000	-0.256381	-40.790036	-0.277936
-0.000483	-0.349369	-19.493955	
0.50000	-0.256381	-25.995764	-0.277936
-0.000483	-0.034509	-19.514066	
0.75000	-0.256381	-12.405811	-0.277936
-0.000483	-0.334806	-19.713438	
1.00000	-0.256381	-6.685592	-0.277936
-0.000483	-0.676724	-39.427758	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.066531	0.378761	0.090005
0.000238	0.233098	5.581155	
0.25000	0.066531	0.386931	0.090005
0.000238	0.121605	5.617600	
0.50000	0.066531	0.406349	0.090005
0.000238	0.021405	5.643834	
0.75000	0.066531	0.427493	0.090005
0.000238	0.110115	5.705778	
1.00000	0.066531	0.446043	0.090005
0.000238	0.221752	5.757871	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.119600	-0.453693	-0.090723
-0.000237	-0.226979	-3.047044	
0.25000	-0.119600	-0.435143	-0.090723
-0.000237	-0.115034	-3.060823	
0.50000	-0.119600	-0.414001	-0.090723
-0.000237	-0.000720	-3.102655	
0.75000	-0.119600	-0.394580	-0.090723
-0.000237	-0.100744	-3.144490	
1.00000	-0.119600	-0.386405	-0.090723
-0.000237	-0.212091	-3.214403	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.155741	9.198213	0.137028
0.000383	0.354922	18.939182	
0.25000	0.155741	17.899264	0.137028
0.000383	0.196816	45.646792	
0.50000	0.155741	38.579413	0.137028
0.000383	0.074251	60.871832	
0.75000	0.155741	61.097979	0.137028
0.000383	0.196898	45.826522	
1.00000	0.155741	80.854110	0.137028
0.000383	0.361989	19.290843	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4560

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.111994	-80.879463	-0.142178
-0.000382 -0.361691 -51.893455
0.25000 -0.111994 -61.124226 -0.142178
-0.000382 -0.189578 -22.114166
0.50000 -0.111994 -38.607755 -0.142178
-0.000382 -0.033540 -22.047215
0.75000 -0.111994 -17.924226 -0.142178
-0.000382 -0.173387 -22.253763
1.00000 -0.111994 -9.218212 -0.142178
-0.000382 -0.342051 -52.161424

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.289377	8.470524	0.232996
0.000440	0.601870	20.811136	
0.25000	0.289377	16.345588	0.232996
0.000440	0.323986	45.029174	
0.50000	0.289377	35.062979	0.232996
0.000440	0.082465	58.853203	
0.75000	0.289377	55.443467	0.232996
0.000440	0.308791	45.262806	
1.00000	0.289377	73.324156	0.232996
0.000440	0.594356	21.271622	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.196328	-73.350426	-0.238730
-0.000438	-0.604181	-49.512591	
0.25000	-0.196328	-55.470545	-0.238730
-0.000438	-0.312423	-22.597629	
0.50000	-0.196328	-35.091553	-0.238730
-0.000438	-0.036778	-22.574332	
0.75000	-0.196328	-16.371503	-0.238730
-0.000438	-0.279503	-22.798711	
1.00000	-0.196328	-8.491947	-0.238730
-0.000438	-0.567348	-49.904643	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.300186	5.786161	0.276461
0.000672	0.697637	21.561329	
0.25000	0.300186	10.534974	0.276461
0.000672	0.361908	35.954507	
0.50000	0.300186	21.821675	0.276461
0.000672	0.081329	44.183491	
0.75000	0.300186	34.111738	0.276461
0.000672	0.365439	36.200698	
1.00000	0.300186	44.894133	0.276461
0.000672	0.698562	22.048536	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.269975	-44.920063	-0.276020
-0.000672	-0.678133	-33.901929	
0.25000	-0.269975	-34.138155	-0.276020
-0.000672	-0.338728	-17.717310	
0.50000	-0.269975	-21.849236	-0.276020
-0.000672	-0.032847	-17.749447	
0.75000	-0.269975	-10.560993	-0.276020
-0.000672	-0.337663	-17.930409	
1.00000	-0.269975	-5.809169	-0.276020
-0.000672	-0.679335	-34.321411	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.080765	0.532226	0.145771
0.000433	0.350198	8.147186	
0.25000	0.080765	0.540396	0.145771
0.000433	0.169946	8.087179	
0.50000	0.080765	0.559814	0.145771
0.000433	0.028577	8.070338	
0.75000	0.080765	0.580958	0.145771
0.000433	0.195546	8.155213	
1.00000	0.080765	0.599509	0.145771
0.000433	0.370236	8.283292	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4561

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.205997	-0.601282	-0.141237
-0.000461	-0.228540	-3.432550	
0.25000	-0.205997	-0.582733	-0.141237
-0.000461	-0.153803	-3.436807	
0.50000	-0.205997	-0.561591	-0.141237
-0.000461	-0.009206	-3.468312	
0.75000	-0.205997	-0.542170	-0.141237
-0.000461	-0.189972	-3.500344	
1.00000	-0.205997	-0.533995	-0.141237
-0.000461	-0.370180	-3.560015	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.188353	12.822565	0.197821
0.000546	0.480627	23.558018	
0.25000	0.188353	25.175607	0.197821
0.000546	0.253113	61.473529	
0.50000	0.188353	54.535592	0.197821
0.000546	0.091112	83.052197	
0.75000	0.188353	86.505613	0.197821
0.000546	0.310750	61.618594	
1.00000	0.188353	114.553754	0.197821
0.000546	0.538710	23.836771	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.241503	-114.572689	-0.201013
-0.000571	-0.484848	-71.199368	
0.25000	-0.241503	-86.525817	-0.201013
-0.000571	-0.240400	-28.873547	
0.50000	-0.241503	-54.558771	-0.201013
-0.000571	-0.041417	-28.729764	
0.75000	-0.241503	-25.193966	-0.201013
-0.000571	-0.280467	-28.974276	
1.00000	-0.241503	-12.833898	-0.201013
-0.000571	-0.524585	-71.386994	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.203555	9.751984	0.239496
0.000720	0.592877	24.803614	
0.25000	0.203555	18.656468	0.239496
0.000720	0.308303	52.065770	
0.50000	0.203555	39.820124	0.239496
0.000720	0.094343	67.636822	
0.75000	0.203555	62.865181	0.239496
0.000720	0.341215	52.276397	
1.00000	0.203555	83.083215	0.239496
0.000720	0.626451	25.216732	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251083	-83.108033	-0.239762
-0.000733	-0.580917	-55.033459	
0.25000	-0.251083	-62.899913	-0.239762
-0.000733	-0.288029	-24.569831	
0.50000	-0.251083	-39.848001	-0.239762
-0.000733	-0.039739	-24.512355	
0.75000	-0.251083	-18.680885	-0.239762
-0.000733	-0.315637	-24.734835	
1.00000	-0.251083	-9.771321	-0.239762
-0.000733	-0.610858	-55.353233	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257410	8.272676	0.285333
0.000706	0.715651	24.036952	
0.25000	0.257410	15.662442	0.285333
0.000706	0.371856	46.666405	
0.50000	0.257410	33.226005	0.285333
0.000706	0.091996	59.598709	
0.75000	0.257410	52.350128	0.285333
0.000706	0.387716	46.902588	
1.00000	0.257410	69.129726	0.285333
0.000706	0.733200	24.502680	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4562

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.310378	-69.153598	-0.286886
-0.000724	-0.703311	-47.853931	
0.25000	-0.310378	-52.375556	-0.286886
-0.000724	-0.351363	-22.604261	
0.50000	-0.310378	-33.252415	-0.286886
-0.000724	-0.038520	-22.588482	
0.75000	-0.310378	-15.685981	-0.286886
-0.000724	-0.359005	-22.804828	
1.00000	-0.310378	-8.292000	-0.286886
-0.000724	-0.711416	-48.247043	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250443	11.063432	0.216537
0.000906	0.550431	25.689736	
0.25000	0.250443	32.380085	0.216537
0.000906	0.289241	79.851906	
0.50000	0.250443	60.451011	0.216537
0.000906	0.083940	101.295605	
0.75000	0.250443	86.755962	0.216537
0.000906	0.281721	79.878638	
1.00000	0.250443	114.362185	0.216537
0.000906	0.540937	25.748396	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.236002	-114.379243	-0.214990
-0.000920	-0.540417	-76.758555	
0.25000	-0.236002	-86.768447	-0.214990
-0.000920	-0.278445	-28.551638	
0.50000	-0.236002	-60.465044	-0.214990
-0.000920	-0.044613	-27.988516	
0.75000	-0.236002	-32.393261	-0.214990
-0.000920	-0.269882	-28.718177	
1.00000	-0.236002	-11.068393	-0.214990
-0.000920	-0.536128	-76.911209	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.385449	12.822565	0.285333
0.000720	0.715651	24.803614	
0.25000	0.385449	25.175607	0.285333
0.000720	0.371856	61.473529	
0.50000	0.385449	54.535592	0.285333
0.000720	0.094343	83.052197	
0.75000	0.385449	86.505613	0.285333
0.000720	0.387716	61.618594	
1.00000	0.385449	114.553754	0.285333
0.000720	0.733200	25.216732	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.310378	-114.572689	-0.286886
-0.000733	-0.703311	-71.199368	
0.25000	-0.310378	-86.525817	-0.286886
-0.000733	-0.351363	-28.873547	
0.50000	-0.310378	-54.558771	-0.286886
-0.000733	-0.041917	-28.729764	
0.75000	-0.310378	-25.193966	-0.286886
-0.000733	-0.359005	-28.974276	
1.00000	-0.310378	-12.833898	-0.286886
-0.000733	-0.711416	-71.386994	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.385449	12.822565	0.285333
0.000906	0.715651	25.689736	
0.25000	0.385449	32.380085	0.285333
0.000906	0.371856	79.851906	
0.50000	0.385449	60.451011	0.285333
0.000906	0.094343	101.295605	
0.75000	0.385449	86.755962	0.285333
0.000906	0.387716	79.878638	
1.00000	0.385449	114.553754	0.285333
0.000906	0.733200	25.748396	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4563

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.310378	-114.572689	-0.286886
-0.000920	-0.703311	-76.758555	
0.25000	-0.310378	-86.768447	-0.286886
-0.000920	-0.351363	-28.873547	
0.50000	-0.310378	-60.465044	-0.286886
-0.000920	-0.044613	-28.729764	
0.75000	-0.310378	-32.393261	-0.286886
-0.000920	-0.359005	-28.974276	
1.00000	-0.310378	-12.833898	-0.286886
-0.000920	-0.711416	-76.911209	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.385449	12.822565	0.285333
0.000906	0.715651	25.689736	
0.25000	0.385449	32.380085	0.285333
0.000906	0.371856	79.851906	
0.50000	0.385449	60.451011	0.285333
0.000906	0.094343	101.295605	
0.75000	0.385449	86.755962	0.285333
0.000906	0.387716	79.878638	
1.00000	0.385449	114.553754	0.285333
0.000906	0.733200	25.748396	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.310378	-114.572689	-0.286886
-0.000920	-0.703311	-76.758555	
0.25000	-0.310378	-86.768447	-0.286886
-0.000920	-0.351363	-28.873547	
0.50000	-0.310378	-60.465044	-0.286886
-0.000920	-0.044613	-28.729764	
0.75000	-0.310378	-32.393261	-0.286886
-0.000920	-0.359005	-28.974276	
1.00000	-0.310378	-12.833898	-0.286886
-0.000920	-0.711416	-76.911209	

ELEM 444 ========== LENGTH = 4.943326

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.144328	0.187102	0.078566
0.000369	0.204670	3.595110	
0.25000	0.144328	0.211251	0.078566
0.000369	0.107564	3.511890	
0.50000	0.144328	0.243009	0.078566
0.000369	0.013316	3.406937	
0.75000	0.144328	0.272766	0.078566
0.000369	0.116492	3.263631	
1.00000	0.144328	0.304019	0.078566
0.000369	0.239116	3.097965	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.097865	-0.226528	-0.099228
-3.98E-06	-0.251422	-1.729505	
0.25000	-0.097865	-0.195294	-0.099228
-3.98E-06	-0.128804	-1.787513	
0.50000	-0.097865	-0.165535	-0.099228
-3.98E-06	-0.006140	-1.899514	
0.75000	-0.097865	-0.133778	-0.099228
-3.98E-06	-0.087048	-2.012717	
1.00000	-0.097865	-0.109668	-0.099228
-3.98E-06	-0.184100	-2.179627	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.221105	0.789980	0.134968
0.000697	0.351357	7.927198	
0.25000	0.221105	1.466148	0.134968
0.000697	0.185218	9.236890	
0.50000	0.221105	2.355366	0.134968
0.000697	0.027635	9.614875	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.221105	3.188566	0.134968
0.000697	0.193431	8.749295	
1.00000	0.221105	4.063645	0.134968
0.000697	0.396320	6.971469	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.165044	-3.850792	-0.164280
-8.84E-05	-0.416453	-5.323248	
0.25000	-0.165044	-2.976244	-0.164280
-8.84E-05	-0.213639	-4.009996	
0.50000	-0.165044	-2.142998	-0.164280
-8.84E-05	-0.012104	-4.205070	
0.75000	-0.165044	-1.253797	-0.164280
-8.84E-05	-0.150014	-4.432809	
1.00000	-0.165044	-0.578730	-0.164280
-8.84E-05	-0.316242	-6.164338	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250068	0.933434	0.149577
0.000897	0.389970	12.971705	
0.25000	0.250068	0.955168	0.149577
0.000897	0.205700	12.259880	
0.50000	0.250068	0.983750	0.149577
0.000897	0.041771	11.745983	
0.75000	0.250068	1.010531	0.149577
0.000897	0.219852	11.536084	
1.00000	0.250068	1.038659	0.149577
0.000897	0.434878	11.535682	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.151117	-0.676243	-0.174366
-0.000317	-0.438547	-4.165702	
0.25000	-0.151117	-0.648132	-0.174366
-0.000317	-0.225383	-4.415325	
0.50000	-0.151117	-0.621349	-0.174366
-0.000317	-0.015032	-4.713560	
0.75000	-0.151117	-0.592768	-0.174366
-0.000317	-0.165128	-5.012844	
1.00000	-0.151117	-0.571069	-0.174366
-0.000317	-0.349611	-5.360465	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.249884	7.326769	0.171430
0.000883	0.436396	22.809589	
0.25000	0.249884	20.131707	0.171430
0.000883	0.230886	54.930537	
0.50000	0.249884	36.971259	0.171430
0.000883	0.074707	67.267408	
0.75000	0.249884	52.749987	0.171430
0.000883	0.297838	54.019119	
1.00000	0.249884	69.321790	0.171430
0.000883	0.568445	21.123253	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.196458	-68.850171	-0.221765
-0.000569	-0.551961	-48.844057	
0.25000	-0.196458	-52.288419	-0.221765
-0.000569	-0.283058	-20.344587	
0.50000	-0.196458	-36.508827	-0.221765
-0.000569	-0.038180	-20.406235	
0.75000	-0.196458	-19.669595	-0.221765
-0.000569	-0.204300	-21.086455	
1.00000	-0.196458	-6.885505	-0.221765
-0.000569	-0.411251	-50.244725	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.078718	0.406530	0.057353
0.000386	0.149222	5.422323	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.078718	0.430679	0.057353
0.000386	0.078540	5.130777	
0.50000	0.078718	0.462437	0.057353
0.000386	0.017303	4.914377	
0.75000	0.078718	0.492194	0.057353
0.000386	0.072641	4.818644	
1.00000	0.078718	0.523447	0.057353
0.000386	0.149169	4.832335	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.061766	-0.353387	-0.061916
-0.000168	-0.156949	-1.662365	
0.25000	-0.061766	-0.322153	-0.061916
-0.000168	-0.080438	-1.725927	
0.50000	-0.061766	-0.292394	-0.061916
-0.000168	-0.005716	-1.843353	
0.75000	-0.061766	-0.260637	-0.061916
-0.000168	-0.063956	-1.961946	
1.00000	-0.061766	-0.236528	-0.061916
-0.000168	-0.134550	-2.134245	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.131569	9.262633	0.084701
0.000557	0.217204	21.213198	
0.25000	0.131569	26.794713	0.084701
0.000557	0.120945	65.736124	
0.50000	0.131569	49.850846	0.084701
0.000557	0.070227	83.018125	
0.75000	0.131569	71.454536	0.084701
0.000557	0.170152	65.047889	
1.00000	0.131569	94.144076	0.084701
0.000557	0.309306	20.033381	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.071132	-93.761616	-0.115937
-0.000345	-0.296200	-63.721984	
0.25000	-0.071132	-71.085836	-0.115937
-0.000345	-0.159249	-24.468449	
0.50000	-0.071132	-49.480963	-0.115937
-0.000345	-0.040572	-24.319658	
0.75000	-0.071132	-26.425268	-0.115937
-0.000345	-0.103513	-25.017794	
1.00000	-0.071132	-8.921733	-0.115937
-0.000345	-0.201676	-64.707093	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.220156	8.513345	0.137364
0.000791	0.350019	22.132806	
0.25000	0.220156	24.357419	0.137364
0.000791	0.192973	62.269454	
0.50000	0.220156	45.193684	0.137364
0.000791	0.074345	77.794283	
0.75000	0.220156	64.717349	0.137364
0.000791	0.241781	61.456620	
1.00000	0.220156	85.222318	0.137364
0.000791	0.460214	20.673464	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.125296	-84.797980	-0.179786
-0.000305	-0.459407	-58.893267	
0.25000	-0.125296	-64.305446	-0.179786
-0.000305	-0.242190	-23.509763	
0.50000	-0.125296	-44.780712	-0.179786
-0.000305	-0.041496	-23.465962	
0.75000	-0.125296	-23.944849	-0.179786
-0.000305	-0.160584	-24.187543	
1.00000	-0.125296	-8.126565	-0.179786
-0.000305	-0.324272	-60.146180	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.221520	6.288474	0.182003
0.000870	0.458931	22.716409	
0.25000	0.221520	16.684563	0.182003
0.000870	0.239126	48.523291	
0.50000	0.221520	30.356278	0.182003
0.000870	0.072804	58.377660	
0.75000	0.221520	43.166730	0.182003
0.000870	0.309838	47.582986	
1.00000	0.221520	56.621065	0.182003
0.000870	0.586942	20.936654	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.210151	-56.096869	-0.226563
-0.000770	-0.556127	-40.539280	
0.25000	-0.210151	-42.650693	-0.226563
-0.000770	-0.280447	-17.475663	
0.50000	-0.210151	-29.839539	-0.226563
-0.000770	-0.034230	-17.600191	
0.75000	-0.210151	-16.168084	-0.226563
-0.000770	-0.220225	-18.226925	
1.00000	-0.210151	-5.788922	-0.226563
-0.000770	-0.441090	-41.974452	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.056477	0.616985	0.117317
0.000267	0.283924	8.151344	
0.25000	0.056477	0.641134	0.117317
0.000267	0.138989	7.736543	
0.50000	0.056477	0.672892	0.117317
0.000267	0.023950	7.424531	
0.75000	0.056477	0.702649	0.117317
0.000267	0.188609	7.305569	
1.00000	0.056477	0.733902	0.117317
0.000267	0.353952	7.295283	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.175060	-0.471878	-0.133995
-0.000791	-0.309141	-1.872014	
0.25000	-0.175060	-0.440644	-0.133995
-0.000791	-0.143950	-1.970041	
0.50000	-0.175060	-0.410886	-0.133995
-0.000791	-0.006738	-2.121310	
0.75000	-0.175060	-0.379129	-0.133995
-0.000791	-0.151153	-2.274988	
1.00000	-0.175060	-0.355019	-0.133995
-0.000791	-0.296078	-2.481753	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.106155	11.256739	0.151679
0.000405	0.366304	25.260460	
0.25000	0.106155	32.604340	0.151679
0.000405	0.188645	79.578847	
0.50000	0.106155	60.678199	0.151679
0.000405	0.082295	100.677955	
0.75000	0.106155	86.983518	0.151679
0.000405	0.312443	78.777493	
1.00000	0.106155	114.611003	0.151679
0.000405	0.572492	23.875338	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.221601	-114.148727	-0.214253
-0.000978	-0.509360	-76.966030	
0.25000	-0.221601	-86.537998	-0.214253
-0.000978	-0.251445	-29.141247	
0.50000	-0.221601	-60.231238	-0.214253
-0.000978	-0.047390	-28.931608	
0.75000	-0.221601	-32.157913	-0.214253
-0.000978	-0.204102	-29.753213	
1.00000	-0.221601	-10.845069	-0.214253
-0.000978	-0.383639	-78.051662	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.153202	8.353498	0.175565
0.000682	0.432252	25.748304	
0.25000	0.153202	23.002203	0.175565
0.000682	0.222407	62.496038	
0.50000	0.153202	42.266459	0.175565
0.000682	0.081767	76.623866	
0.75000	0.153202	60.317146	0.175565
0.000682	0.316013	61.521241	
1.00000	0.153202	79.275101	0.175565
0.000682	0.579518	23.955345	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.214575	-78.701298	-0.216377
-0.001086	-0.521162	-54.857981	
0.25000	-0.214575	-59.754841	-0.216377
-0.001086	-0.255725	-22.201319	
0.50000	-0.214575	-41.703166	-0.216377
-0.001086	-0.039979	-22.218125	
0.75000	-0.214575	-22.439275	-0.216377
-0.001086	-0.224110	-22.942570	
1.00000	-0.214575	-7.814421	-0.216377
-0.001086	-0.435742	-56.245582	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.201546	7.099804	0.196257
0.000838	0.490586	24.273789	
0.25000	0.201546	19.216500	0.196257
0.000838	0.254057	54.494776	
0.50000	0.201546	35.150955	0.196257
0.000838	0.077816	66.060684	
0.75000	0.201546	50.081605	0.196257
0.000838	0.333845	53.504548	
1.00000	0.201546	65.762703	0.196257
0.000838	0.628032	22.420620	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.233360	-65.193348	-0.240482
-0.000929	-0.585266	-46.511561	
0.25000	-0.233360	-49.521760	-0.240482
-0.000929	-0.292921	-19.580340	
0.50000	-0.233360	-34.590293	-0.240482
-0.000929	-0.037185	-19.675023	
0.75000	-0.233360	-18.656140	-0.240482
-0.000929	-0.251882	-20.355030	
1.00000	-0.233360	-6.559173	-0.240482
-0.000929	-0.479900	-47.982442	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.265131	0.288071	0.103988
0.000315	0.271522	4.639797	
0.25000	0.265131	0.296250	0.103988
0.000315	0.142324	4.537227	
0.50000	0.265131	0.315673	0.103988
0.000315	0.012719	4.427166	
0.75000	0.265131	0.336820	0.103988
0.000315	0.148102	4.292549	
1.00000	0.265131	0.355370	0.103988
0.000315	0.303924	4.150718	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.121713	-0.232923	-0.126354
-3.59E-06	-0.320762	-3.435546	
0.25000	-0.121713	-0.214374	-0.126354
-3.59E-06	-0.164653	-3.428138	
0.50000	-0.121713	-0.193232	-0.126354
-3.59E-06	-0.009684	-3.448583	
0.75000	-0.121713	-0.173811	-0.126354
-3.59E-06	-0.114338	-3.469247	
1.00000	-0.121713	-0.165641	-0.126354
-3.59E-06	-0.243138	-3.517878	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.331492	0.868762	0.169838
0.000583	0.443479	9.399396	
0.25000	0.331492	1.105923	0.169838
0.000583	0.232837	9.821462	
0.50000	0.331492	1.669185	0.169838
0.000583	0.035152	9.981292	
0.75000	0.331492	2.282434	0.169838
0.000583	0.251032	9.382566	
1.00000	0.331492	2.820398	0.169838
0.000583	0.511808	8.486465	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.240795	-2.562711	-0.211591
-8.50E-05	-0.534702	-7.352409	
0.25000	-0.240795	-2.024794	-0.211591
-8.50E-05	-0.273859	-6.583440	
0.50000	-0.240795	-1.411678	-0.211591
-8.50E-05	-0.015267	-6.744422	
0.75000	-0.240795	-0.848456	-0.211591
-8.50E-05	-0.187390	-6.673179	
1.00000	-0.240795	-0.611524	-0.211591
-8.50E-05	-0.397744	-7.530476	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.356347	1.160768	0.188997
0.000752	0.492434	14.612707	
0.25000	0.356347	1.168129	0.188997
0.000752	0.258343	14.044178	
0.50000	0.356347	1.185610	0.188997
0.000752	0.052067	13.582009	
0.75000	0.356347	1.204642	0.188997
0.000752	0.297658	13.342908	
1.00000	0.356347	1.221337	0.188997
0.000752	0.594260	13.218477	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.214431	-0.810750	-0.241058
-0.000288	-0.602391	-8.444885	
0.25000	-0.214431	-0.794056	-0.241058
-0.000288	-0.306524	-8.491104	
0.50000	-0.214431	-0.775029	-0.241058
-0.000288	-0.023849	-8.562583	
0.75000	-0.214431	-0.757549	-0.241058
-0.000288	-0.210092	-8.633868	
1.00000	-0.214431	-0.750196	-0.241058
-0.000288	-0.443534	-8.730350	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.377897	6.962482	0.229356
0.000741	0.581321	21.868902	
0.25000	0.377897	12.685742	0.229356
0.000741	0.306144	38.723264	
0.50000	0.377897	26.276877	0.229356
0.000741	0.079901	48.122181	
0.75000	0.377897	41.074138	0.229356
0.000741	0.388979	37.903771	
1.00000	0.377897	54.054860	0.229356
0.000741	0.747268	20.249527	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.246003	-53.536306	-0.295679
-0.000498	-0.730818	-39.418446	
0.25000	-0.246003	-40.556741	-0.295679
-0.000498	-0.369187	-19.912084	
0.50000	-0.246003	-25.762682	-0.295679
-0.000498	-0.038440	-19.951943	
0.75000	-0.246003	-12.172526	-0.295679
-0.000498	-0.281066	-20.181435	
1.00000	-0.246003	-6.455511	-0.295679
-0.000498	-0.564309	-39.916627	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070186	0.480145	0.066130
0.000313	0.172403	5.744640	
0.25000	0.070186	0.488324	0.066130
0.000313	0.090498	5.585477	
0.50000	0.070186	0.507747	0.066130
0.000313	0.020619	5.448862	
0.75000	0.070186	0.528893	0.066130
0.000313	0.105706	5.334121	
1.00000	0.070186	0.547444	0.066130
0.000313	0.211876	5.211620	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.116737	-0.381408	-0.086282
-0.000154	-0.215221	-3.198008	
0.25000	-0.116737	-0.362859	-0.086282
-0.000154	-0.109197	-3.199778	
0.50000	-0.116737	-0.341717	-0.086282
-0.000154	-0.008859	-3.229496	
0.75000	-0.116737	-0.322294	-0.086282
-0.000154	-0.073587	-3.259407	
1.00000	-0.116737	-0.314125	-0.086282
-0.000154	-0.154918	-3.317237	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.158183	9.402709	0.108492
0.000450	0.276974	19.260504	
0.25000	0.158183	18.133350	0.108492
0.000450	0.156044	45.575314	
0.50000	0.158183	38.796680	0.108492
0.000450	0.072702	60.407375	
0.75000	0.158183	61.319698	0.108492
0.000450	0.222090	45.034964	
1.00000	0.158183	81.075996	0.108492
0.000450	0.404323	18.171532	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.108900	-80.683006	-0.156706
-0.000303	-0.394656	-52.167665	
0.25000	-0.108900	-60.928469	-0.156706
-0.000303	-0.070355	-22.410614	
0.50000	-0.108900	-38.412324	-0.156706
-0.000303	-0.035959	-22.402632	
0.75000	-0.108900	-17.728486	-0.156706
-0.000303	-0.143385	-22.683440	
1.00000	-0.108900	-9.027348	-0.156706
-0.000303	-0.276272	-52.651589	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.286125	8.729875	0.175436
0.000652	0.452871	21.237465	
0.25000	0.286125	16.613619	0.175436
0.000652	0.247318	44.955826	
0.50000	0.286125	35.335299	0.175436
0.000652	0.080384	58.341002	
0.75000	0.286125	55.718407	0.175436
0.000652	0.313979	44.281312	
1.00000	0.286125	73.599248	0.175436
0.000652	0.597314	19.863917	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185105	-73.137034	-0.238147
-0.000266	-0.600969	-49.887867	
0.25000	-0.185105	-55.257788	-0.238147
-0.000266	-0.310883	-22.972623	
0.50000	-0.185105	-34.879091	-0.238147
-0.000266	-0.040117	-22.982445	
0.75000	-0.185105	-16.158761	-0.238147
-0.000266	-0.214282	-23.107899	
1.00000	-0.185105	-8.283618	-0.238147
-0.000266	-0.430522	-50.551810	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294755	6.105183	0.245063
0.000722	0.614112	22.039162	
0.25000	0.294755	10.859230	0.245063
0.000722	0.317881	35.861919	
0.50000	0.294755	12.148759	0.245063
0.000722	0.079075	43.542226	
0.75000	0.294755	34.440159	0.245063
0.000722	0.414065	34.992172	
1.00000	0.294755	45.222646	0.245063
0.000722	0.790916	20.313151	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.260185	-44.665199	-0.310122
-0.000661	-0.757833	-34.327358	
0.25000	-0.260185	-33.883674	-0.310122
-0.000661	-0.377434	-18.146786	
0.50000	-0.260185	-21.594932	-0.310122
-0.000661	-0.036511	-18.202592	
0.75000	-0.260185	-10.306218	-0.310122
-0.000661	-0.304969	-18.513388	
1.00000	-0.260185	-5.557357	-0.310122
-0.000661	-0.607444	-34.962921	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.072760	0.684279	0.169832
0.000233	0.408032	8.330655	
0.25000	0.072760	0.692458	0.169832
0.000233	0.198275	8.015841	
0.50000	0.072760	0.711881	0.169832
0.000233	0.027858	7.745411	
0.75000	0.072760	-3.733027	0.169832
0.000233	0.264680	7.569981	
1.00000	0.072760	0.751578	0.169832
0.000233	0.503839	7.440542	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.200535	-0.478652	-0.192798
-0.000695	-0.450600	-3.599833	
0.25000	-0.200535	-0.460104	-0.192798
-0.000695	-0.212529	-3.623664	
0.50000	-0.200535	-0.438962	-0.192798
-0.000695	-0.010675	-3.675840	
0.75000	-0.200535	-0.419540	-0.192798
-0.000695	-0.221298	-3.727987	
1.00000	-0.200535	-0.411370	-0.192798
-0.000695	-0.431229	-3.807878	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.179253	13.064718	0.226957
0.000320	0.543528	23.877589	
0.25000	0.179253	25.431375	0.226957
0.000320	0.282317	61.350839	
0.50000	0.179253	54.798716	0.226957
0.000320	0.089641	82.538433	
0.75000	0.179253	86.772218	0.226957
0.000320	0.414461	60.671012	
1.00000	0.179253	114.820596	0.226957
0.000320	0.754953	22.527862	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.237154	-114.329840	-0.285925
-0.000807	-0.684621	-71.461868	
0.25000	-0.237154	-86.283963	-0.285925
-0.000807	-0.336110	-29.205366	
0.50000	-0.237154	-54.317379	-0.285925
-0.000807	-0.044487	-29.209871	
0.75000	-0.237154	-24.952156	-0.285925
-0.000807	-0.320595	-29.609955	
1.00000	-0.237154	-12.598990	-0.285925
-0.000807	-0.671484	-72.116207	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4571

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197513	10.066618	0.247197
0.000537	0.603355	25.237177	
0.25000	0.197513	18.980917	0.247197
0.000537	0.311672	51.937155	
0.50000	0.197513	40.149875	0.247197
0.000537	0.092534	66.979462	
0.75000	0.197513	63.197441	0.247197
0.000537	0.436826	51.062340	
1.00000	0.197513	83.415647	0.247197
0.000537	0.807047	23.496103	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.245123	-82.821402	-0.309807
-0.000907	-0.746151	-55.406997	
0.25000	-0.245123	-62.604999	-0.309807
-0.000907	-0.367796	-24.990776	
0.50000	-0.245123	-39.562420	-0.309807
-0.000907	-0.043112	-25.019075	
0.75000	-0.245123	-18.394988	-0.309807
-0.000907	-0.330266	-25.342645	
1.00000	-0.245123	-9.490415	-0.309807
-0.000907	-0.635292	-56.047575	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251664	8.598891	0.266844
0.000670	0.662170	24.513484	
0.25000	0.251664	15.996802	0.266844
0.000670	0.341414	46.544968	
0.50000	0.251664	33.564765	0.266844
0.000670	0.089810	58.930044	
0.75000	0.251664	52.691771	0.266844
0.000670	0.455960	45.657429	
1.00000	0.251664	69.470711	0.266844
0.000670	0.860181	22.722051	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.301084	-68.873608	-0.335543
-0.000776	-0.816974	-48.273474	
0.25000	-0.301084	-52.096164	-0.335543
-0.000776	-0.406353	-23.086614	
0.50000	-0.301084	-32.973297	-0.335543
-0.000776	-0.042295	-23.186343	
0.75000	-0.301084	-15.406601	-0.335543
-0.000776	-0.314184	-23.498388	
1.00000	-0.301084	-8.016761	-0.335543
-0.000776	-0.671484	-49.023820	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250068	11.256739	0.196257
0.000897	0.490686	25.748304	
0.25000	0.250068	32.604340	0.196257
0.000897	0.254057	79.578847	
0.50000	0.250068	60.678199	0.196257
0.000897	0.082295	100.677955	
0.75000	0.250068	86.983518	0.196257
0.000897	0.333845	78.777493	
1.00000	0.250068	114.611003	0.196257
0.000897	0.628032	23.955345	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.233360	-114.148727	-0.240482
-0.001086	-0.585266	-76.966030	
0.25000	-0.233360	-86.537998	-0.240482
-0.001086	-0.292921	-29.141247	
0.50000	-0.233360	-60.231238	-0.240482
-0.001086	-0.047390	-28.931608	
0.75000	-0.233360	-32.157913	-0.240482
-0.001086	-0.241882	-29.753213	
1.00000	-0.233360	-10.845069	-0.240482
-0.001086	-0.479900	-78.051662	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4572

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.377897	13.064718	0.266844
0.000752	0.662170	25.237177	
0.25000	0.377897	25.431375	0.266844
0.000752	0.343414	61.350839	
0.50000	0.377897	54.798716	0.266844
0.000752	0.092534	82.538433	
0.75000	0.377897	86.772218	0.266844
0.000752	0.455960	60.671012	
1.00000	0.377897	114.820596	0.266844
0.000752	0.860181	23.496103	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.301084	-114.329840	-0.335543
-0.000907	-0.816974	-71.461868	
0.25000	-0.301084	-86.283963	-0.335543
-0.000907	-0.406353	-29.205366	
0.50000	-0.301084	-54.317379	-0.335543
-0.000907	-0.044487	-29.209871	
0.75000	-0.301084	-24.952156	-0.335543
-0.000907	-0.341849	-29.609955	
1.00000	-0.301084	-12.598990	-0.335543
-0.000907	-0.671484	-72.116207	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.377897	13.064718	0.266844
0.000897	0.662170	25.748304	
0.25000	0.377897	32.604340	0.266844
0.000897	0.343414	79.578847	
0.50000	0.377897	60.678199	0.266844
0.000897	0.092534	100.677955	
0.75000	0.377897	86.983518	0.266844
0.000897	0.455960	78.777493	
1.00000	0.377897	114.820596	0.266844
0.000897	0.860181	23.955345	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.301084	-114.329840	-0.335543
-0.001086	-0.816974	-76.966030	
0.25000	-0.301084	-86.537998	-0.335543
-0.001086	-0.406353	-29.205366	
0.50000	-0.301084	-60.231238	-0.335543
-0.001086	-0.047390	-29.209871	
0.75000	-0.301084	-32.157913	-0.335543
-0.001086	-0.341849	-29.753213	
1.00000	-0.301084	-12.598990	-0.335543
-0.001086	-0.671484	-78.051662	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4573

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 445 ========== LENGTH = 4.943123

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.119955	0.315960	0.052396
0.000575	0.137253	3.084802	
0.25000	0.119955	0.340128	0.052396
0.000575	0.072553	2.800880	
0.50000	0.119955	0.371899	0.052396
0.000575	0.009359	2.490276	
0.75000	0.119955	0.401698	0.052396
0.000575	0.094306	2.145969	
1.00000	0.119955	0.432937	0.052396
0.000575	0.195558	1.784982	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093183	-0.228355	-0.081944
-3.90E-07	-0.209533	-2.153710	
0.25000	-0.093183	-0.197167	-0.081944
-3.90E-07	-0.108264	-2.071397	
0.50000	-0.093183	-0.167394	-0.081944
-3.90E-07	-0.006970	-2.042910	
0.75000	-0.093183	-0.135630	-0.081944
-3.90E-07	-0.057253	-2.015470	
1.00000	-0.093183	-0.111578	-0.081944
-3.90E-07	-0.121904	-2.042107	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.195311	1.057223	0.091050
0.001035	0.239082	6.952693	
0.25000	0.195311	1.733906	0.091050
0.001035	0.126710	7.864539	
0.50000	0.195311	2.623492	0.091050
0.001035	0.020404	7.831065	
0.75000	0.195311	3.456769	0.091050
0.001035	0.159977	6.519217	
1.00000	0.195311	4.332556	0.091050
0.001035	0.330192	4.368275	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.154376	-3.777910	-0.137886
-3.90E-07	-0.352311	-6.123841	
0.25000	-0.154376	-2.904638	-0.137886
-3.90E-07	-0.181988	-4.570169	
0.50000	-0.154376	-2.070988	-0.137886
-3.90E-07	-0.013450	-4.523622	
0.75000	-0.154376	-1.181603	-0.137886
-3.90E-07	-0.098866	-4.506360	
1.00000	-0.154376	-0.508156	-0.137886
-3.90E-07	-0.211283	-6.003278	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.222574	1.333705	0.100295
0.001208	0.264607	11.527016	
0.25000	0.222574	1.355456	0.100295
0.001208	0.140937	10.180926	
0.50000	0.222574	1.384050	0.100295
0.001208	0.031294	9.005042	
0.75000	0.222574	1.410834	0.100295
0.001208	0.217616	8.090254	
1.00000	0.222574	1.438984	0.100295
0.001208	0.435667	7.424601	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.131446	-0.388273	-0.176668
-0.000166	-0.437941	-5.324103	
0.25000	-0.131446	-0.360203	-0.176668
-0.000166	-0.219828	-5.249272	
0.50000	-0.131446	-0.333408	-0.176668
-0.000166	-0.016818	-5.222883	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4574

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.131446	-0.304820	-0.176668
-0.000166	-0.107954	-5.197437	
1.00000	-0.131446	-0.283174	-0.176668
-0.000166	-0.231703	-5.220660	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.223906	7.800633	0.140635
0.001066	0.356602	21.136579	
0.25000	0.223906	20.615318	0.140635
0.001066	0.183002	52.497141	
0.50000	0.223906	37.461867	0.140635
0.001066	0.062776	64.044196	
0.75000	0.223906	53.242045	0.140635
0.001066	0.318970	49.735427	
1.00000	0.223906	69.827264	0.140635
0.001066	0.618217	16.231183	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.179004	-68.405419	-0.245120
-0.000520	-0.610866	-50.219704	
0.25000	-0.179004	-51.867833	-0.245120
-0.000520	-0.309771	-21.472025	
0.50000	-0.179004	-36.080588	-0.245120
-0.000520	-0.041023	-21.265535	
0.75000	-0.179004	-19.237869	-0.245120
-0.000520	-0.166193	-21.613631	
1.00000	-0.179004	-6.484520	-0.245120
-0.000520	-0.339075	-50.636499	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.077455	0.573634	0.039914
0.000493	0.105439	4.830197	
0.25000	0.077455	0.597801	0.039914
0.000493	0.056270	4.288732	
0.50000	0.077455	0.629572	0.039914
0.000493	0.013211	3.799240	
0.75000	0.077455	0.659332	0.039914
0.000493	0.069521	3.392513	
1.00000	0.077455	0.689110	0.039914
0.000493	0.136628	3.109793	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.058364	-0.224527	-0.054371
-4.29E-06	-0.135256	-2.122884	
0.25000	-0.058364	-0.193339	-0.054371
-4.29E-06	-0.069567	-2.065765	
0.50000	-0.058364	-0.163566	-0.054371
-4.29E-06	-0.006317	-2.062473	
0.75000	-0.058364	-0.131802	-0.054371
-4.29E-06	-0.042824	-2.040226	
1.00000	-0.058364	-0.107750	-0.054371
-4.29E-06	-0.091897	-2.112057	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.125557	9.608356	0.066855
0.000665	0.171949	20.044981	
0.25000	0.125557	27.153780	0.066855
0.000665	0.089469	64.023927	
0.50000	0.125557	50.219494	0.066855
0.000665	0.060844	90.719380	
0.75000	0.125557	71.825169	0.066855
0.000665	0.202151	61.836851	
1.00000	0.125557	94.533079	0.066855
0.000665	0.378089	16.495187	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.059177	-93.339467	-0.146182
-0.000179	-0.367905	-64.689438	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4575

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.059177	-70.696775	-0.146182
-0.000179	-0.189434	-25.347972	
0.50000	-0.059177	-49.081424	-0.146182
-0.000179	-0.042675	-25.084115	
0.75000	-0.059177	-26.020955	-0.146182
-0.000179	-0.077566	-25.579579	
1.00000	-0.059177	-8.559510	-0.146182
-0.000179	-0.158952	-65.335552	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.202868	8.932872	0.100262
0.001046	0.260386	20.674986	
0.25000	0.202868	24.789006	0.100262
0.001046	0.136568	60.149911	
0.50000	0.202868	45.633930	0.100262
0.001046	0.063825	74.980852	
0.75000	0.202868	65.159389	0.100262
0.001046	0.254293	57.629296	
1.00000	0.202868	85.680959	0.100262
0.001046	0.490159	16.378580	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.106582	-84.429147	-0.194305
-0.000162	-0.491515	-60.110690	
0.25000	-0.106582	-63.966516	-0.194305
-0.000162	-0.253334	-24.538429	
0.50000	-0.106582	-44.432312	-0.194305
-0.000162	-0.044201	-24.281347	
0.75000	-0.106582	-23.592129	-0.194305
-0.000162	-0.112963	-24.710477	
1.00000	-0.106582	-7.811889	-0.194305
-0.000162	-0.235692	-60.620075	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.204141	6.793982	0.160511
0.000875	0.402522	20.965134	
0.25000	0.204141	17.197983	0.160511
0.000875	0.204266	45.961531	
0.50000	0.204141	30.875380	0.160511
0.000875	0.060519	54.962387	
0.75000	0.204141	43.687009	0.160511
0.000875	0.347963	43.084731	
1.00000	0.204141	57.152237	0.160511
0.000875	0.672078	15.727070	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.187762	-55.586752	-0.264898
-0.000785	-0.651912	-41.966215	
0.25000	-0.187762	-42.160197	-0.264898
-0.000785	-0.326092	-18.639919	
0.50000	-0.187762	-29.342830	-0.264898
-0.000785	-0.036861	-18.485477	
0.75000	-0.187762	-15.668544	-0.264898
-0.000785	-0.193717	-18.781693	
1.00000	-0.187762	-5.314339	-0.264898
-0.000785	-0.391247	-42.358217	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.052148	0.847393	0.131874
6.92E-06	0.318623	7.340255	
0.25000	0.052148	0.871560	0.131874
6.92E-06	0.155654	6.541997	
0.50000	0.052148	0.903331	0.131874
6.92E-06	0.018646	5.807015	
0.75000	0.052148	0.933091	0.131874
6.92E-06	0.232843	5.229705	
1.00000	0.052148	0.964369	0.131874
6.92E-06	0.448891	4.798725	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4576

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.160855	-0.242391	-0.175136
-0.000991	-0.417533	-2.515337	
0.25000	-0.160855	-0.211302	-0.175136
-0.000991	-0.201326	-2.487274	
0.50000	-0.160855	-0.181529	-0.175136
-0.000991	-0.007604	-2.513036	
0.75000	-0.160855	-0.149765	-0.175136
-0.000991	-0.170282	-2.539847	
1.00000	-0.160855	-0.125714	-0.175136
-0.000991	-0.333249	-2.620736	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.098808	11.656689	0.174842
8.60E-05	0.419781	23.937043	
0.25000	0.098808	33.020539	0.174842
8.60E-05	0.204144	77.613750	
0.50000	0.098808	61.106064	0.174842
8.60E-05	0.073360	98.033265	
0.75000	0.098808	87.413800	0.174842
8.60E-05	0.379269	75.030827	
1.00000	0.098808	115.063652	0.174842
8.60E-05	0.714578	19.757719	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206752	-113.658605	-0.276261
-0.001206	-0.679806	-78.080411	
0.25000	-0.206752	-86.088165	-0.276261
-0.001206	-0.341149	-30.305981	
0.50000	-0.206752	-59.768646	-0.276261
-0.001206	-0.050248	-29.913491	
0.75000	-0.206752	-31.689509	-0.276261
-0.001206	-0.230243	-30.545673	
1.00000	-0.206752	-10.427914	-0.276261
-0.001206	-0.445016	-78.982687	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.143323	8.870223	0.180137
0.000448	0.441851	24.013342	
0.25000	0.143323	23.530078	0.180137
0.000448	0.219272	59.931059	
0.50000	0.143323	42.802340	0.180137
0.000448	0.069871	73.171968	
0.75000	0.143323	60.854685	0.180137
0.000448	0.394092	56.859865	
1.00000	0.143323	79.827988	0.180137
0.000448	0.746689	18.610259	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192660	-78.082679	-0.288976
-0.001188	-0.701930	-56.268647	
0.25000	-0.192660	-59.163868	-0.288976
-0.001188	-0.347022	-23.427028	
0.50000	-0.192660	-41.103439	-0.288976
-0.001188	-0.042813	-23.236206	
0.75000	-0.192660	-21.835559	-0.288976
-0.001188	-0.227469	-23.679823	
1.00000	-0.192660	-7.245873	-0.288976
-0.001188	-0.449086	-56.927056	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.188911	7.631622	0.183128
0.000764	0.455426	22.462433	
0.25000	0.188911	19.757540	0.183128
0.000764	0.229215	51.844715	
0.50000	0.188911	35.698617	0.183128
0.000764	0.065320	62.513928	
0.75000	0.188911	50.636039	0.183128
0.000764	0.386331	48.784219	
1.00000	0.188911	66.324431	0.183128
0.000764	0.742276	16.972228	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4577

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.207470	-64.656941	-0.291083
-0.000989	-0.713297	-47.987010	
0.25000	-0.207470	-49.008221	-0.291083
-0.000989	-0.355413	-20.810730	
0.50000	-0.207470	-34.069513	-0.291083
-0.000989	-0.039995	-20.641600	
0.75000	-0.207470	-18.132061	-0.291083
-0.000989	-0.224795	-20.997248	
1.00000	-0.207470	-6.064182	-0.291083
-0.000989	-0.450231	-48.486450	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.228062	0.379931	0.069961
0.000562	0.182366	4.133292	
0.25000	0.228062	0.388125	0.069961
0.000562	0.095809	3.752554	
0.50000	0.228062	0.407557	0.069961
0.000562	0.013212	3.365409	
0.75000	0.228062	0.428713	0.069961
0.000562	0.122382	2.955530	
1.00000	0.228062	0.447268	0.069961
0.000562	0.252260	2.537455	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.114550	-0.222014	-0.105183
-2.19E-07	-0.268030	-3.492868	
0.25000	-0.114550	-0.203460	-0.105183
-2.19E-07	-0.138093	-3.293016	
0.50000	-0.114550	-0.182314	-0.105183
-2.19E-07	-0.009663	-3.121079	
0.75000	-0.114550	-0.162894	-0.105183
-2.19E-07	-0.077076	-2.949271	
1.00000	-0.114550	-0.154756	-0.105183
-2.19E-07	-0.164130	-2.828837	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.295878	1.039382	0.115585
0.000966	0.301164	8.464054	
0.25000	0.295878	1.277003	0.115585
0.000966	0.158739	8.332626	
0.50000	0.295878	1.840541	0.115585
0.000966	0.026479	7.931878	
0.75000	0.295878	2.454052	0.115585
0.000966	0.218027	6.777673	
1.00000	0.295878	2.992134	0.115585
0.000966	0.444856	5.343338	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.222267	-2.463715	-0.184093
-2.19E-07	-0.466399	-7.491684	
0.25000	-0.222267	-1.925639	-0.184093
-2.19E-07	-0.239339	-6.390239	
0.50000	-0.222267	-1.312424	-0.184093
-2.19E-07	-0.017802	-6.098883	
0.75000	-0.222267	-0.749233	-0.184093
-2.19E-07	-0.127913	-5.811780	
1.00000	-0.222267	-0.513234	-0.184093
-2.19E-07	-0.270974	-6.387069	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.321585	1.401221	0.138803
0.001098	0.354287	13.209895	
0.25000	0.321585	1.408596	0.138803
0.001098	0.183858	11.820984	
0.50000	0.321585	1.426085	0.138803
0.001098	0.039341	10.490565	
0.75000	0.321585	1.445125	0.138803
0.001098	0.295013	9.386532	
1.00000	0.321585	1.461824	0.138803
0.001098	0.587675	8.405072	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4578

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.189885	-0.513078	-0.237424
-0.000185	-0.586179	-8.700012	
0.25000	-0.189885	-0.496379	-0.237424
-0.000185	-0.294219	-8.304456	
0.50000	-0.189885	-0.477348	-0.237424
-0.000185	-0.023755	-7.933976	
0.75000	-0.189885	-0.459870	-0.237424
-0.000185	-0.160677	-7.564183	
1.00000	-0.189885	-0.452546	-0.237424
-0.000185	-0.332639	-7.287697	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.346022	7.209761	0.203959
0.000976	0.505222	20.267643	
0.25000	0.346022	12.943399	0.203959
0.000976	0.260305	36.188016	
0.50000	0.346022	26.541187	0.203959
0.000976	0.065629	44.582093	
0.75000	0.346022	41.344781	0.203959
0.000976	0.417576	33.318490	
1.00000	0.346022	54.328343	0.203959
0.000976	0.807194	14.786591	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.222119	-53.113396	-0.321652
-0.000483	-0.792173	-39.908971	
0.25000	-0.222119	-40.129986	-0.321652
-0.000483	-0.397627	-19.967968	
0.50000	-0.222119	-25.333540	-0.321652
-0.000483	-0.039077	-19.573472	
0.75000	-0.222119	-11.744121	-0.321652
-0.000483	-0.225437	-19.178300	
1.00000	-0.222119	-6.049629	-0.321652
-0.000483	-0.508742	-38.773216	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.075102	0.575023	0.048185
0.000418	0.124552	5.211577	
0.25000	0.075102	0.583217	0.048185
0.000418	0.065119	4.704612	
0.50000	0.075102	0.602650	0.048185
0.000418	0.015842	4.220235	
0.75000	0.075102	0.623805	0.048185
0.000418	0.104907	3.758331	
1.00000	0.075102	0.642360	0.048185
0.000418	0.207689	3.298521	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.107357	-0.245473	-0.083926
-2.19E-06	-0.208653	-3.307297	
0.25000	-0.107357	-0.226918	-0.083926
-2.19E-06	-0.105498	-3.148961	
0.50000	-0.107357	-0.205779	-0.083926
-2.19E-06	-0.008669	-3.018551	
0.75000	-0.107357	-0.186353	-0.083926
-2.19E-06	-0.054929	-2.888345	
1.00000	-0.107357	-0.178215	-0.083926
-2.19E-06	-0.114242	-2.814200	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.157736	9.529503	0.099710
0.000555	0.244265	18.186911	
0.25000	0.157736	18.255940	0.099710
0.000555	0.131508	43.852093	
0.50000	0.157736	38.951395	0.099710
0.000555	0.063311	58.012692	
0.75000	0.157736	61.482051	0.099710
0.000555	0.259583	41.814519	
1.00000	0.157736	81.242671	0.099710
0.000555	0.479895	14.415537	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4579

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093437	-80.288906	-0.188158
-0.000184	-0.464070	-52.646396	
0.25000	-0.093437	-60.528519	-0.188158
-0.000184	-0.236574	-22.639460	
0.50000	-0.093437	-38.008740	-0.188158
-0.000184	-0.036785	-22.381911	
0.75000	-0.093437	-17.326024	-0.188158
-0.000184	-0.138515	-22.280045	
1.00000	-0.093437	-8.659164	-0.188158
-0.000184	-0.258663	-52.222939	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.266367	8.925816	0.141205
0.000924	0.354567	19.866048	
0.25000	0.266367	16.823856	0.141205
0.000924	0.189513	42.759336	
0.50000	0.266367	35.554700	0.141205
0.000924	0.067991	55.247695	
0.75000	0.266367	55.946531	0.141205
0.000924	0.330137	40.255729	
1.00000	0.266367	73.831284	0.141205
0.000924	0.630059	15.127462	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.160549	-72.770802	-0.251750
-0.000167	-0.627214	-50.522564	
0.25000	-0.160549	-54.886269	-0.251750
-0.000167	-0.320752	-23.254298	
0.50000	-0.160549	-34.504274	-0.251750
-0.000167	-0.040822	-22.911393	
0.75000	-0.160549	-15.784960	-0.251750
-0.000167	-0.180603	-22.709323	
1.00000	-0.160549	-7.940841	-0.251750
-0.000167	-0.352581	-49.698068	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.276065	6.378681	0.233409
0.000775	0.573837	20.351529	
0.25000	0.276065	11.141349	0.233409
0.000775	0.291368	33.184967	
0.50000	0.276065	22.436404	0.233409
0.000775	0.064507	39.794397	
0.75000	0.276065	34.733065	0.233409
0.000775	0.462446	30.141853	
1.00000	0.276065	45.517910	0.233409
0.000775	0.892814	14.511602	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.230032	-44.181939	-0.353484
-0.000718	-0.862756	-34.970718	
0.25000	-0.230032	-33.397220	-0.353484
-0.000718	-0.428988	-18.376188	
0.50000	-0.230032	-21.106496	-0.353484
-0.000718	-0.036974	-18.017829	
0.75000	-0.230032	-9.818394	-0.353484
-0.000718	-0.298241	-17.750422	
1.00000	-0.230032	-5.088242	-0.353484
-0.000718	-0.585348	-33.906423	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.068786	0.839762	0.195571
6.71E-06	0.471313	7.499656	
0.25000	0.068786	0.847956	0.195571
6.71E-06	0.229596	6.710985	
0.50000	0.068786	0.867986	0.195571
6.71E-06	0.021248	5.958299	
0.75000	0.068786	0.888544	0.195571
6.71E-06	0.319920	5.285670	
1.00000	0.068786	0.907099	0.195571
6.71E-06	0.619816	4.664646	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4580

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.179030	-0.230250	-0.242669
-0.000921	-0.580588	-3.859420	
0.25000	-0.179030	-0.211695	-0.242669
-0.000921	-0.279854	-3.717407	
0.50000	-0.179030	-0.190550	-0.242669
-0.000921	-0.010751	-3.606486	
0.75000	-0.179030	-0.171130	-0.242669
-0.000921	-0.253090	-3.499645	
1.00000	-0.179030	-0.162992	-0.242669
-0.000921	-0.494956	-3.446095	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.170788	13.225789	0.269281
6.48E-05	0.643762	22.605361	
0.25000	0.170788	25.614872	0.269281
6.48E-05	0.324517	59.350138	
0.50000	0.170788	54.996589	0.269281
6.48E-05	0.079170	79.727116	
0.75000	0.170788	86.983774	0.269281
6.48E-05	0.502794	56.971910	
1.00000	0.170788	115.038288	0.269281
6.48E-05	0.940359	18.275675	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.214476	-113.860022	-0.367236
-0.001086	-0.895087	-72.173800	
0.25000	-0.214476	-85.805839	-0.367236
-0.001086	-0.444308	-29.755299	
0.50000	-0.214476	-53.834096	-0.367236
-0.001086	-0.045994	-29.534077	
0.75000	-0.214476	-24.470465	-0.367236
-0.001086	-0.370283	-29.536498	
1.00000	-0.214476	-12.165966	-0.367236
-0.001086	-0.698538	-72.158654	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.192182	10.304680	0.272151
0.000352	0.656699	23.570564	
0.25000	0.192182	19.235144	0.272151
0.000352	0.330849	49.297364	
0.50000	0.192182	40.414464	0.272151
0.000352	0.078535	63.280853	
0.75000	0.192182	63.471894	0.272151
0.000352	0.528155	46.249064	
1.00000	0.192182	83.694523	0.272151
0.000352	0.997042	17.806715	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.216304	-82.230353	-0.389610
-0.001092	-0.943562	-56.098180	
0.25000	-0.216304	-62.007872	-0.389610
-0.001092	-0.466064	-25.339474	
0.50000	-0.216304	-38.961574	-0.389610
-0.001092	-0.044100	-25.025363	
0.75000	-0.216304	-17.795290	-0.389610
-0.001092	-0.365044	-24.879746	
1.00000	-0.216304	-8.925797	-0.389610
-0.001092	-0.697721	-55.492039	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.240807	8.866226	0.267371
0.000654	0.653478	22.776616	
0.25000	0.240807	16.277552	0.267371
0.000654	0.331830	43.787125	
0.50000	0.240807	33.854115	0.267371
0.000654	0.075036	55.066000	
0.75000	0.240807	52.989306	0.267371
0.000654	0.520971	40.647961	
1.00000	0.240807	69.771917	0.267371
0.000654	0.995981	16.774916	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4581

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267898	-68.345035	-0.392880
-0.000909	-0.958651	-49.047898	
0.25000	-0.267898	-51.562621	-0.392880
-0.000909	-0.476979	-23.435449	
0.50000	-0.267898	-32.436668	-0.392880
-0.000909	-0.042925	-23.081527	
0.75000	-0.267898	-14.870925	-0.392880
-0.000909	-0.348402	-22.867477	
1.00000	-0.267898	-7.510197	-0.392880
-0.000909	-0.675919	-48.184317	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.223906	11.656689	0.183128
0.001208	0.455426	24.013342	
0.25000	0.223906	33.020539	0.183128
0.001208	0.229215	77.613750	
0.50000	0.223906	61.106064	0.183128
0.001208	0.073360	98.033265	
0.75000	0.223906	87.413800	0.183128
0.001208	0.528155	75.030827	
1.00000	0.223906	115.063652	0.183128
0.001208	0.746689	19.757719	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.207470	-113.658605	-0.291083
-0.001206	-0.713297	-78.080411	
0.25000	-0.207470	-86.088165	-0.291083
-0.001206	-0.355413	-30.205881	
0.50000	-0.207470	-59.768646	-0.291083
-0.001206	-0.050248	-29.913491	
0.75000	-0.207470	-31.689509	-0.291083
-0.001206	-0.230243	-30.545673	
1.00000	-0.207470	-10.427914	-0.291083
-0.001206	-0.450231	-78.982687	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.346022	13.225789	0.272151
0.001098	0.656699	23.570564	
0.25000	0.346022	25.614872	0.272151
0.001098	0.331830	59.350138	
0.50000	0.346022	54.996589	0.272151
0.001098	0.079170	79.727116	
0.75000	0.346022	86.983774	0.272151
0.001098	0.528155	56.971910	
1.00000	0.346022	115.038288	0.272151
0.001098	0.997042	18.275675	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267898	-113.860022	-0.392880
-0.001092	-0.958651	-72.173800	
0.25000	-0.267898	-85.805839	-0.392880
-0.001092	-0.476979	-29.755299	
0.50000	-0.267898	-53.834096	-0.392880
-0.001092	-0.045994	-29.534077	
0.75000	-0.267898	-24.470465	-0.392880
-0.001092	-0.370283	-29.536498	
1.00000	-0.267898	-12.165966	-0.392880
-0.001092	-0.698538	-72.158654	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.346022	13.225789	0.272151
0.001208	0.656699	24.013342	
0.25000	0.346022	33.020539	0.272151
0.001208	0.331830	77.613750	
0.50000	0.346022	61.106064	0.272151
0.001208	0.079170	98.033265	
0.75000	0.346022	87.413800	0.272151
0.001208	0.528155	75.030827	
1.00000	0.346022	115.063652	0.272151
0.001208	0.997042	19.757719	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4582

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267898	-113.860022	-0.392880
-0.001206	-0.958651	-78.080411	
0.25000	-0.267898	-86.088165	-0.392880
-0.001206	-0.476979	-30.205881	
0.50000	-0.267898	-59.768646	-0.392880
-0.001206	-0.050248	-29.913491	
0.75000	-0.267898	-31.689509	-0.392880
-0.001206	-0.370283	-30.545673	
1.00000	-0.267898	-12.165966	-0.392880
-0.001206	-0.698538	-78.982687	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.346022	13.225789	0.272151
0.001208	0.656699	24.013342	
0.25000	0.346022	33.020539	0.272151
0.001208	0.331830	77.613750	
0.50000	0.346022	61.106064	0.272151
0.001208	0.079170	98.033265	
0.75000	0.346022	87.413800	0.272151
0.001208	0.528155	75.030827	
1.00000	0.346022	115.063652	0.272151
0.001208	0.997042	19.757719	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267898	-113.860022	-0.392880
-0.001206	-0.958651	-78.080411	
0.25000	-0.267898	-86.088165	-0.392880
-0.001206	-0.476979	-30.205881	
0.50000	-0.267898	-59.768646	-0.392880
-0.001206	-0.050248	-29.913491	
0.75000	-0.267898	-31.689509	-0.392880
-0.001206	-0.370283	-30.545673	
1.00000	-0.267898	-12.165966	-0.392880
-0.001206	-0.698538	-78.982687	

ELEM 446 ========== LENGTH = 4.943048

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.075322	0.255107	0.034401
0.000677	0.089336	1.776677	
0.25000	0.075322	0.279342	0.034401
0.000677	0.046830	1.572344	
0.50000	0.075322	0.311176	0.034401
0.000677	0.004592	1.346199	
0.75000	0.075322	0.340952	0.034401
0.000677	0.069309	1.089651	
1.00000	0.075322	0.372493	0.034401
0.000677	0.145806	0.829033	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.084737	-0.203190	-0.061910
-4.65E-07	-0.160247	-2.022005	
0.25000	-0.084737	-0.172037	-0.061910
-4.65E-07	-0.083729	-1.992099	
0.50000	-0.084737	-0.142209	-0.061910
-4.65E-07	-0.007359	-2.016022	
0.75000	-0.084737	-0.110440	-0.061910
-4.65E-07	-0.038209	-2.041006	
1.00000	-0.084737	-0.086480	-0.061910
-4.65E-07	-0.080720	-2.121371	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.143474	0.913993	0.056934
0.001223	0.149968	4.357157	
0.25000	0.143474	1.592571	0.056934
0.001223	0.079634	5.427032	
0.50000	0.143474	2.483935	0.056934
0.001223	0.011769	5.542044	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4583

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.143474	3.317646	0.056934
0.001223	0.125420	4.346682	
1.00000	0.143474	4.200798	0.056934
0.001223	0.259729	2.492545	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.139173	-3.753684	-0.109398
-1.97E-06	-0.281866	-5.972423	
0.25000	-0.139173	-2.881385	-0.109398
-1.97E-06	-0.146714	-4.526580	
0.50000	-0.139173	-2.046217	-0.109398
-1.97E-06	-0.014129	-4.579532	
0.75000	-0.139173	-1.156679	-0.109398
-1.97E-06	-0.061285	-4.650967	
1.00000	-0.139173	-0.486029	-0.109398
-1.97E-06	-0.131503	-6.260612	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171194	1.085426	0.069879
0.001423	0.179615	7.421998	
0.25000	0.171194	1.107238	0.069879
0.001423	0.093235	6.379047	
0.50000	0.171194	1.135889	0.069879
0.001423	0.018803	5.498121	
0.75000	0.171194	1.162687	0.069879
0.001423	0.198461	4.877894	
1.00000	0.171194	1.191074	0.069879
0.001423	0.403141	4.470511	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.118179	-0.386078	-0.165708
-4.18E-07	-0.416037	-5.196995	
0.25000	-0.118179	-0.358040	-0.165708
-4.18E-07	-0.211388	-5.311889	
0.50000	-0.118179	-0.331912	-0.165708
-4.18E-07	-0.017998	-5.475710	
0.75000	-0.118179	-0.302603	-0.165708
-4.18E-07	-0.079226	-5.640611	
1.00000	-0.118179	-0.281046	-0.165708
-4.18E-07	-0.165604	-5.855872	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.179483	7.266173	0.126763
0.001180	0.313321	16.252538	
0.25000	0.179483	20.116737	0.126763
0.001180	0.156648	47.959649	
0.50000	0.179483	36.996941	0.126763
0.001180	0.048347	59.774662	
0.75000	0.179483	52.785340	0.126763
0.001180	0.311786	44.182014	
1.00000	0.179483	69.510039	0.126763
0.001180	0.610501	12.740199	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.159014	-68.416594	-0.248502
-0.000445	-0.630767	-50.624494	
0.25000	-0.159014	-51.897435	-0.248502
-0.000445	-0.323834	-22.012269	
0.50000	-0.159014	-36.081441	-0.248502
-0.000445	-0.043398	-21.775407	
0.75000	-0.159014	-19.235813	-0.248502
-0.000445	-0.158251	-21.886617	
1.00000	-0.159014	-6.535381	-0.248502
-0.000445	-0.313139	-51.112019	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.072811	0.469843	0.023637
0.000577	0.063505	3.109122	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000		0.072811	0.494078	0.023637
0.000577		0.034716	2.704735	
0.50000		0.072811	0.525912	0.023637
0.000577		0.008524	2.341769	
0.75000		0.072811	0.555688	0.023637
0.000577		0.070659	2.073998	
1.00000		0.072811	0.587229	0.023637
0.000577		0.141417	1.906779	

COMB DB-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.053538	-0.226731	-0.057309
-4.55E-06		-0.141988	-2.105174	
0.25000		-0.053538	-0.195578	-0.057309
-4.55E-06		-0.071201	-2.129346	
0.50000		-0.053538	-0.165750	-0.057309
-4.55E-06		-0.006768	-2.207033	
0.75000		-0.053538	-0.133981	-0.057309
-4.55E-06		-0.026836	-2.285375	
1.00000		-0.053538	-0.110029	-0.057309
-4.55E-06		-0.056043	-2.418622	

COMB DB-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.115951	9.054010	0.060901
0.000762		0.149946	16.508122	
0.25000		0.115951	26.648558	0.060901
0.000762		0.074655	60.761458	
0.50000		0.115951	49.760351	0.060901
0.000762		0.052108	77.623678	
0.75000		0.115951	71.377281	0.060901
0.000762		0.210546	56.756245	
1.00000		0.115951	94.276163	0.060901
0.000762		0.398470	14.057337	

COMB DB-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.054646	-93.368321	-0.161228
-4.09E-05		-0.415845	-65.325560	
0.25000		-0.054646	-70.750858	-0.161228
-4.09E-05		-0.216765	-26.021986	
0.50000		-0.054646	-49.096146	-0.161228
-4.09E-05		-0.044875	-25.568149	
0.75000		-0.054646	-26.031693	-0.161228
-4.09E-05		-0.078019	-25.590771	
1.00000		-0.054646	-8.642699	-0.161228
-4.09E-05		-0.150889	-65.474605	

COMB DB-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.168600	8.379290	0.078941
0.001224		0.198535	16.384992	
0.25000		0.168600	24.279818	0.078941
0.001224		0.100953	56.169916	
0.50000		0.168600	45.166384	0.078941
0.001224		0.051124	71.207575	
0.75000		0.168600	64.702015	0.078941
0.001224		0.244014	52.154512	
1.00000		0.168600	85.396170	0.078941
0.001224		0.472847	13.370036	

COMB DB-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.094024	-84.432116	-0.193477
-3.69E-05		-0.499203	-60.595838	
0.25000		-0.094024	-63.992285	-0.193477
-3.69E-05		-0.260236	-25.103275	
0.50000		-0.094024	-44.422510	-0.193477
-3.69E-05		-0.046172	-24.720491	
0.75000		-0.094024	-23.578725	-0.193477
-3.69E-05		-0.096155	-24.768298	
1.00000		-0.094024	-7.863961	-0.193477
-3.69E-05		-0.191541	-60.839544	

COMB DB-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.176417	6.278720	0.153734
0.001025		0.377287	15.764335	
0.25000		0.176417	16.711850	0.153734
0.001025		0.187290	41.131887	
0.50000		0.176417	30.416571	0.153734
0.001025		0.045882	50.440785	
0.75000		0.176417	43.234874	0.153734
0.001025		0.354008	37.601366	
1.00000		0.176417	56.813344	0.153734
0.001025		0.693653	11.977781	

COMB DB-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.159889	-55.614141	-0.280404
-0.000735		-0.703043	-42.362799	
0.25000		-0.159889	-42.202546	-0.280404
-0.000735		-0.356794	-19.211033	
0.50000		-0.159889	-29.361838	-0.280404
-0.000735		-0.039428	-19.096956	
0.75000		-0.159889	-15.685189	-0.280404
-0.000735		-0.046034	-19.065566	
1.00000		-0.159889	-5.373947	-0.280404
-0.000735		-0.382587	-43.070987	

COMB DB-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.055852	0.709340	0.148526
8.19E-06		0.358333	4.851372	
0.25000		0.055852	0.733575	0.148526
8.19E-06		0.174853	4.229238	
0.50000		0.055852	0.765410	0.148526
8.19E-06		0.012441	3.666129	
0.75000		0.055852	0.795185	0.148526
8.19E-06		0.256329	3.241495	
1.00000		0.055852	0.826726	0.148526
8.19E-06		0.504232	2.938377	

COMB DB-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.126069	-0.220317	-0.200875
-0.001142		-0.489107	-2.659229	
0.25000		-0.126069	-0.189163	-0.200875
-0.001142		-0.240972	-2.758951	
0.50000		-0.126069	-0.159336	-0.200875
-0.001142		-0.009118	-2.912184	
0.75000		-0.126069	-0.127567	-0.200875
-0.001142		-0.192300	-3.066074	
1.00000		-0.126069	-0.103615	-0.200875
-0.001142		-0.375839	-3.275073	

COMB DB-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.099041	11.011821	0.204756
9.06E-05		0.490883	19.829027	
0.25000		0.099041	32.435486	0.204756
9.06E-05		0.237904	73.790784	
0.50000		0.099041	60.577118	0.204756
9.06E-05		0.062583	94.357541	
0.75000		0.099041	86.898559	0.204756
9.06E-05		0.408630	68.908294	
1.00000		0.099041	114.780944	0.204756
9.06E-05		0.781639	16.813236	

COMB DB-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.167284	-113.669414	-0.313181
-0.001373		-0.788018	-79.018785	
0.25000		-0.167284	-86.129694	-0.313181
-0.001373		-0.401105	-31.190126	
0.50000		-0.167284	-59.762248	-0.313181
-0.001373		-0.053400	-30.665726	
0.75000		-0.167284	-31.678256	-0.313181
-0.001373		-0.271185	-30.721168	
1.00000		-0.167284	-10.504883	-0.313181
-0.001373		-0.521274	-79.312797	

COMB DB-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.139256	8.258567	0.197093
0.000506		0.475941	18.676677	
0.25000		0.139256	22.959467	0.197093
0.000506		0.232406	54.994780	
0.50000		0.139256	42.270229	0.197093
0.000506		0.055929	68.531639	
0.75000		0.139256	60.331978	0.197093
0.000506		0.428660	50.715042	
1.00000		0.139256	79.464846	0.197093
0.000506		0.828746	14.780139	

COMB DB-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.157006	-78.112419	-0.331619
-0.001197		-0.825372	-56.960938	
0.25000		-0.157006	-59.214688	-0.331619
-0.001197		-0.415813	-24.275705	
0.50000		-0.157006	-41.121371	-0.331619
-0.001197		-0.045929	-24.050851	
0.75000		-0.157006	-21.850162	-0.331619
-0.001197		-0.256582	-24.224380	
1.00000		-0.157006	-7.321011	-0.331619
-0.001197		-0.498153	-57.703535	

COMB DB-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.173240	7.072930	0.183112
0.000888		0.447226	17.023750	
0.25000		0.173240	19.232799	0.183112
0.000888		0.220985	46.798305	
0.50000		0.173240	35.205722	0.183112
0.000888		0.050485	57.777205	
0.75000		0.173240	50.145522	0.183112
0.000888		0.403228	42.881186	
1.00000		0.173240	65.971298	0.183112
0.000888		0.786067	13.058216	

COMB DB-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.170880	-64.669905	-0.316502
-0.000998		-0.790865	-48.503483	
0.25000		-0.170880	-49.038622	-0.316502
-0.000998		-0.399956	-21.502009	
0.50000		-0.170880	-34.072710	-0.316502
-0.000998		-0.042806	-21.350612	
0.75000		-0.170880	-18.132534	-0.316502
-0.000998		-0.233152	-21.528733	
1.00000		-0.170880	-6.114698	-0.316502
-0.000998		-0.457788	-49.255625	

COMB DL-G1-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.173386	0.332220	0.048395
0.000680		0.123901	2.529464	
0.25000		0.173386	0.340669	0.048395
0.000680		0.064455	2.254856	
0.50000		0.173386	0.360142	0.048395
0.000680		0.006613	1.994381	
0.75000		0.173386	0.381302	0.048395
0.000680		0.092222	1.777589	
1.00000		0.173386	0.399799	0.048395
0.000680		0.192535	1.593396	

COMB DL-G1-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.101958	-0.189294	-0.081157
-2.80E-07		-0.208932	-2.810577	
0.25000		-0.101958	-0.170703	-0.081157
-2.80E-07		-0.108841	-2.742889	
0.50000		-0.101958	-0.149524	-0.081157
-2.80E-07		-0.009689	-2.722720	
0.75000		-0.101958	-0.130108	-0.081157
-2.80E-07		-0.054969	-2.766116	
1.00000		-0.101958	-0.122059	-0.081157
-2.80E-07		-0.114609	-2.876842	

COMB DL-G1-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.232262	0.968218	0.080611
0.001211		0.206431	5.337459	
0.25000		0.232262	1.213241	0.080611
0.001211		0.107614	5.400305	
0.50000		0.232262	1.777977	0.080611
0.001211		0.014724	5.225736	
0.75000		0.232262	2.391602	0.080611
0.001211		0.179687	4.432278	
1.00000		0.232262	2.928009	0.080611
0.001211		0.370331	3.466119	

COMB DL-G1-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.202542	-2.422284	-0.154262
-1.38E-06		-0.392823	-6.359307	
0.25000		-0.202542	-1.883162	-0.154262
-1.38E-06		-0.202609	-5.519892	
0.50000		-0.202542	-1.268964	-0.154262
-1.38E-06		-0.017327	-5.533888	
0.75000		-0.202542	-0.705907	-0.154262
-1.38E-06		-0.091651	-5.672513	
1.00000		-0.202542	-0.472489	-0.154262
-1.38E-06		-0.191079	-6.730194	

COMB DL-G1-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.258622	1.334820	0.117120
0.001327		0.290798	8.417427	
0.25000		0.258622	1.342424	0.117120
0.001327		0.146749	7.323227	
0.50000		0.258622	1.359951	0.117120
0.001327		0.022555	6.421261	
0.75000		0.258622	1.378994	0.117120
0.001327		0.279244	5.908567	
1.00000		0.258622	1.395641	0.117120
0.001327		0.564481	5.646994	

COMB DL-G1-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.169822	-0.500154	-0.230048
-6.97E-06		-0.572854	-7.272028	
0.25000		-0.169802	-0.483423	-0.230048
-6.97E-06		-0.288341	-7.283815	
0.50000		-0.169802	-0.464362	-0.230048
-6.97E-06		-0.023678	-7.458448	
0.75000		-0.169802	-0.446887	-0.230048
-6.97E-06		-0.143245	-7.815588	
1.00000		-0.169802	-0.439643	-0.230048
-6.97E-06		-0.287326	-8.398518	

COMB DL-G1-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.293626	6.957946	0.203236
0.001100		0.493755	14.826834	
0.25000		0.293626	12.870176	0.203236
0.001100		0.248058	30.993089	
0.50000		0.293626	26.496871	0.203236
0.001100		0.046589	39.670340	
0.75000		0.293626	41.302229	0.203236
0.001100		0.420904	28.847051	
1.00000		0.293626	54.246351	0.203236
0.001100		0.824834	11.162720	

COMB DL-G1-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.195134	-52.984511	-0.333929
-0.000413		-0.831237	-38.779004	
0.25000		-0.195134	-39.975858	-0.333929
-0.000413		-0.419932	-19.363392	
0.50000		-0.195134	-25.155699	-0.333929
-0.000413		-0.040321	-19.405417	
0.75000		-0.195134	-11.569521	-0.333929
-0.000413		-0.264775	-19.730516	
1.00000		-0.195134	-5.937287	-0.333929
-0.000413		-0.513084	-40.276729	

COMB DL-G2-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.071834	0.568836	0.038334
0.000520		0.095937	3.306622	
0.25000		0.071834	0.577285	0.038334
0.000520		0.049206	2.903768	
0.50000		0.071834	0.596758	0.038334
0.000520		0.009626	2.581244	
0.75000		0.071834	0.617918	0.038334
0.000520		0.105802	2.355012	
1.00000		0.071834	0.636415	0.038334
0.000520		0.212429	2.195134	

COMB DL-G2-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.104059	-0.251419	-0.085879
-2.45E-06		-0.212341	-2.809221	
0.25000		-0.104059	-0.232829	-0.085879
-2.45E-06		-0.106186	-2.814289	
0.50000		-0.104059	-0.211650	-0.085879
-2.45E-06		-0.008523	-2.902500	
0.75000		-0.104059	-0.192334	-0.085879
-2.45E-06		-0.045516	-3.066495	
1.00000		-0.104059	-0.184185	-0.085879
-2.45E-06		-0.092764	-3.339714	

COMB DL-G2-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.147473	9.215770	0.109911
0.000650		0.262453	14.444088	
0.25000		0.147473	18.214019	0.109911
0.000650		0.134303	40.199102	
0.50000		0.147473	38.953469	0.109911
0.000650		0.050058	54.368311	
0.75000		0.147473	61.488333	0.109911
0.000650		0.280909	38.280757	
1.00000		0.147473	81.187403	0.109911
0.000650		0.531872	11.502858	

COMB DL-G2-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.087465	-80.115158	-0.214253
-4.21E-05		-0.534897	-52.224244	
0.25000		-0.087465	-60.316351	-0.214253
-4.21E-05		-0.107786	-22.625025	
0.50000		-0.087465	-37.760482	-0.214253
-4.21E-05		-0.038112	-22.500016	
0.75000		-0.087465	-17.082698	-0.214253
-4.21E-05		-0.154508	-22.622669	
1.00000		-0.087465	-8.510596	-0.214253
-4.21E-05		-0.286428	-53.363950	

COMB DL-G2-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.224424	8.604666	0.132923
0.001132		0.323498	15.148595	
0.25000		0.224424	16.748715	0.132923
0.001132		0.166684	38.209659	
0.50000		0.224424	35.519378	0.132923
0.001132		0.051042	50.805724	
0.75000		0.224424	55.915017	0.132923
0.001132		0.329674	36.067707	
1.00000		0.224424	73.744063	0.132923
0.001132		0.637697	11.694468	

COMB DL-G2-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.144110	-72.589109	-0.259402
-3.81E-05		-0.651757	-49.681442	
0.25000		-0.144110	-54.669794	-0.259402
-3.81E-05		-0.333735	-22.864162	
0.50000		-0.144110	-34.255144	-0.259402
-3.81E-05		-0.041873	-22.854268	
0.75000		-0.144110	-15.540293	-0.259402
-3.81E-05		-0.141721	-23.010714	
1.00000		-0.144110	-7.781937	-0.259402
-3.81E-05		-0.337824	-50.914335	

COMB DL-G2-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.244387	6.172604	0.243523
0.000949		0.589502	14.572512	
0.25000		0.244387	11.083620	0.243523
0.000949		0.293107	27.681241	
0.50000		0.244387	22.402686	0.243523
0.000949		0.045215	34.651342	
0.75000		0.244387	34.701643	0.243523
0.000949		0.484003	25.522836	
1.00000		0.244387	45.452897	0.243523
0.000949		0.947916	10.784068	

COMB DL-G2-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.196674	-44.094766	-0.381473
-0.000698		-0.942123	-33.928915	
0.25000		-0.196674	-33.289079	-0.381473
-0.000698		-0.471606	-17.860676	
0.50000		-0.196674	-20.978657	-0.381473
-0.000698		-0.038522	-18.107027	
0.75000		-0.196674	-9.693247	-0.381473
-0.000698		-0.318725	-18.548801	
1.00000		-0.196674	-5.014811	-0.381473
-0.000698		-0.615593	-35.850978	

COMB DL-G3-1 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.074658	0.846028	0.221468
7.25E-06		0.533957	4.734520	
0.25000		0.074658	0.854477	0.221468
7.25E-06		0.260413	4.103039	
0.50000		0.074658	0.873951	0.221468
7.25E-06		0.013392	3.626534	
0.75000		0.074658	0.895110	0.221468
7.25E-06		0.353066	3.298229	
1.00000		0.074658	0.913607	0.221468
7.25E-06		0.694826	3.086298	

COMB DL-G3-1 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.138928	-0.251941	-0.276501
-0.001143		-0.672512	-3.502651	
0.25000		-0.138928	-0.233351	-0.276501
-0.001143		-0.330757	-3.609610	
0.50000		-0.138928	-0.212171	-0.276501
-0.001143		-0.011912	-3.863724	
0.75000		-0.138928	-0.192756	-0.276501
-0.001143		-0.285262	-4.231382	
1.00000		-0.138928	-0.184707	-0.276501
-0.001143		-0.558876	-4.752432	

COMB DL-G3-2 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.173957	12.808608	0.315666
6.88E-05		0.754400	18.368127	
0.25000		0.173957	25.583588	0.315666
6.88E-05		0.374959	55.170863	
0.50000		0.173957	55.027765	0.315666
6.88E-05		0.065217	75.483245	
0.75000		0.173957	87.020923	0.315666
6.88E-05		0.550802	52.746227	
1.00000		0.173957	114.988055	0.315666
6.88E-05		1.049440	14.751417	

COMB DL-G3-2 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.170456	-113.613396	-0.420259
-0.001324		-1.034322	-72.221201	
0.25000		-0.170456	-85.504667	-0.420259
-0.001324		-0.524150	-30.254868	
0.50000		-0.170456	-53.481687	-0.420259
-0.001324		-0.049007	-30.150148	
0.75000		-0.170456	-24.125058	-0.420259
-0.001324		-0.426745	-30.336385	
1.00000		-0.170456	-11.955087	-0.420259
-0.001324		-0.811344	-73.879836	

COMB DL-G3-3 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.191618	9.994863	0.312388
0.000393		0.748327	17.901404	
0.25000		0.191618	19.203494	0.312388
0.000393		0.370124	43.823246	
0.50000		0.191618	40.427838	0.312388
0.000393		0.060197	58.017222	
0.75000		0.191618	63.489573	0.312388
0.000393		0.583123	41.333684	
1.00000		0.191618	83.649214	0.312388
0.000393		1.123652	13.795688	

COMB DL-G3-3 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.175431	-82.076981	-0.449003
-0.001155		-1.104145	-55.551891	
0.25000		-0.175431	-61.815272	-0.449003
-0.001155		-0.551906	-25.427849	
0.50000		-0.175431	-38.732040	-0.449003
-0.001155		-0.046689	-25.462386	
0.75000		-0.175431	-17.570804	-0.449003
-0.001155		-0.416991	-25.881428	
1.00000		-0.175431	-8.798283	-0.449003
-0.001155		-0.798601	-57.719856	

COMB DL-G3-4 ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.224084	8.586066	0.287192
0.000795		0.692985	16.852465	
0.25000		0.224084	16.228241	0.287192
0.000795		0.345032	38.101528	
0.50000		0.224084	33.842168	0.287192
0.000795		0.055502	49.644802	
0.75000		0.224084	52.980933	0.287192
0.000795		0.554650	35.653822	
1.00000		0.224084	69.711270	0.287192
0.000795		1.077776	12.711600	

COMB DL-G3-4 ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.226809	-68.205595	-0.432926
-0.000963		-1.069012	-48.222141	
0.25000		-0.226809	-51.390552	-0.432926
-0.000963		-0.536377	-23.177528	
0.50000		-0.226809	-32.233948	-0.432926
-0.000963		-0.044945	-23.267353	
0.75000		-0.226809	-14.672393	-0.432926
-0.000963		-0.377397	-23.679922	
1.00000		-0.226809	-7.392142	-0.432926
-0.000963		-0.728699	-50.202841	

COMB DB ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.179483	11.011821	0.204756
0.001423		0.490883	19.829027	
0.25000		0.179483	32.435486	0.204756
0.001423		0.237904	73.790784	
0.50000		0.179483	60.577118	0.204756
0.001423		0.062583	94.357541	
0.75000		0.179483	86.898559	0.204756
0.001423		0.428660	68.908294	
1.00000		0.179483	114.780944	0.204756
0.001423		0.828746	16.813236	

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.170880 -113.669414 -0.331619
-0.001373 -0.825372 -79.018785
0.25000 -0.170880 -86.129694 -0.331619
-0.001373 -0.415813 -31.190126
0.50000 -0.170880 -59.762248 -0.331619
-0.001373 -0.053400 -30.665726
0.75000 -0.170880 -31.678258 -0.331619
-0.001373 -0.271185 -30.721168
1.00000 -0.170880 -10.504883 -0.331619
-0.001373 -0.521274 -79.312797
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4591

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.293626 12.808608 0.315666
0.001327 0.754400 18.368127
0.25000 0.293626 25.583588 0.315666
0.001327 0.374959 55.170863
0.50000 0.293626 55.027765 0.315666
0.001327 0.065217 75.483245
0.75000 0.293626 87.020923 0.315666
0.001327 0.583123 52.746227
1.00000 0.293626 114.988055 0.315666
0.001327 1.123652 14.751417

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.226809 -113.613396 -0.449003
-0.001324 -1.104145 -72.221201
0.25000 -0.226809 -85.504667 -0.449003
-0.001324 -0.551906 -30.254868
0.50000 -0.226809 -53.481687 -0.449003
-0.001324 -0.049007 -30.150148
0.75000 -0.226809 -24.125058 -0.449003
-0.001324 -0.426745 -30.338385
1.00000 -0.226809 -11.955087 -0.449003
-0.001324 -0.811344 -73.879836

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.293626 12.808608 0.315666
0.001423 0.754400 19.829027
0.25000 0.293626 32.435486 0.315666
0.001423 0.374959 73.790784
0.50000 0.293626 60.577118 0.315666
0.001423 0.065217 94.357541
0.75000 0.293626 87.020923 0.315666
0.001423 0.583123 68.908294
1.00000 0.293626 114.988055 0.315666
0.001423 1.123652 16.813236

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.226809 -113.669414 -0.449003
-0.001373 -1.104145 -79.018785
0.25000 -0.226809 -86.129694 -0.449003
-0.001373 -0.551906 -31.190126
0.50000 -0.226809 -59.762248 -0.449003
-0.001373 -0.053400 -30.665726
0.75000 -0.226809 -31.678258 -0.449003
-0.001373 -0.426745 -30.721168
1.00000 -0.226809 -11.955087 -0.449003
-0.001373 -0.811344 -79.312797

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.293626 12.808608 0.315666
0.001423 0.754400 19.829027
0.25000 0.293626 32.435486 0.315666
0.001423 0.374959 73.790784
0.50000 0.293626 60.577118 0.315666
0.001423 0.065217 94.357541
0.75000 0.293626 87.020923 0.315666
0.001423 0.583123 68.908294
1.00000 0.293626 114.988055 0.315666
0.001423 1.123652 16.813236

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.226809 -113.669414 -0.449003
-0.001373 -1.104145 -79.018785
0.25000 -0.226809 -86.129694 -0.449003
-0.001373 -0.551906 -31.190126
0.50000 -0.226809 -59.762248 -0.449003
-0.001373 -0.053400 -30.665726
0.75000 -0.226809 -31.678258 -0.449003
-0.001373 -0.426745 -30.721168
1.00000 -0.226809 -11.955087 -0.449003
-0.001373 -0.811344 -79.312797
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4592

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 447 ========== LENGTH = 4.943134

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.053791 0.211884 0.024620
0.000654 0.063023 0.821380
0.25000 0.053791 0.237001 0.024620
0.000654 0.032591 0.852101
0.50000 0.053791 0.269619 0.024620
0.000654 0.002216 0.852597
0.75000 0.053791 0.297129 0.024620
0.000654 0.042096 0.812312
1.00000 0.053791 0.333082 0.024620
0.000654 0.091610 0.753471

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.055431 -0.245125 -0.040073
-3.85E-07 -0.106538 -2.108182
0.25000 -0.055431 -0.214332 -0.040073
-3.85E-07 -0.057017 -1.935651
0.50000 -0.055431 -0.183803 -0.040073
-3.85E-07 -0.007795 -1.811944
0.75000 -0.055431 -0.152128 -0.040073
-3.85E-07 -0.028229 -1.691873
1.00000 -0.055431 -0.130105 -0.040073
-3.85E-07 -0.058673 -1.635617

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.074783 0.830376 0.039358
0.001206 0.100780 2.483208
0.25000 0.074783 1.533651 0.039358
0.001206 0.052086 3.701689
0.50000 0.074783 2.446952 0.039358
0.001206 0.005254 4.104372
0.75000 0.074783 3.217215 0.039358
0.001206 0.084705 3.252308
1.00000 0.074783 4.223911 0.039358
0.001206 0.181036 1.809692

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.105007 -3.738733 -0.078394
-3.85E-07 -0.206414 -6.241216
0.25000 -0.105007 -2.876542 -0.078394
-3.85E-07 -0.109679 -4.613608
0.50000 -0.105007 -2.021724 -0.078394
-3.85E-07 -0.015089 -4.287188
0.75000 -0.105007 -1.134837 -0.078394
-3.85E-07 -0.045007 -4.012043
1.00000 -0.105007 -0.518187 -0.078394
-3.85E-07 -0.093720 -5.467615

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.100538 1.191352 0.066651
0.001464 0.159906 4.466143
0.25000 0.100538 1.213957 0.066651
0.001464 0.077404 3.451142
0.50000 0.100538 1.243313 0.066651
0.001464 0.007777 2.713827
0.75000 0.100538 1.268071 0.066651
0.001464 0.152577 2.197537
1.00000 0.100538 1.300429 0.066651
0.001464 0.320724 1.909081

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.095025 -0.309759 -0.136046
-3.46E-07 -0.351739 -5.846439
0.25000 -0.095025 -0.282046 -0.136046
-3.46E-07 -0.183702 -5.714654
0.50000 -0.095025 -0.254569 -0.136046
-3.46E-07 -0.018726 -5.627151
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4593

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.095025 -0.226062 -0.136046
-3.46E-07 -0.087078 -5.543895
1.00000 -0.095025 -0.206241 -0.136046
-3.46E-07 -0.169598 -5.517710

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.122395 5.204555 0.133631
0.001224 0.322325 12.757772
0.25000 0.122395 18.522825 0.133631
0.001224 0.157067 44.201942
0.50000 0.122395 35.818464 0.133631
0.001224 0.030584 54.769733
0.75000 0.122395 50.405323 0.133631
0.001224 0.254316 38.351739
1.00000 0.122395 69.469630 0.133631
0.001224 0.517000 10.994411

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.109776 -67.815960 -0.221732
-0.000398 -0.579028 -51.115767
0.25000 -0.109776 -51.488219 -0.221732
-0.000398 -0.305127 -22.791970
0.50000 -0.109776 -35.300098 -0.221732
-0.000398 -0.039634 -19.049640
0.75000 -0.109776 -18.504680 -0.221732
-0.000398 -0.173054 -16.241966
1.00000 -0.109776 -6.826881 -0.221732
-0.000398 -0.338308 -46.179253

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.032565 0.558169 0.018945
0.000605 0.048462 1.905534
0.25000 0.032565 0.583286 0.018945
0.000605 0.025029 1.358941
0.50000 0.032565 0.615904 0.018945
0.000605 0.003070 0.977596
0.75000 0.032565 0.643413 0.018945
0.000605 0.058836 0.810460
1.00000 0.032565 0.679366 0.018945
0.000605 0.122586 0.764982

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.047335 -0.186725 -0.051601
-4.23E-06 -0.132467 -2.416635
0.25000 -0.047335 -0.155933 -0.051601
-4.23E-06 -0.068744 -2.374030
0.50000 -0.047335 -0.125404 -0.051601
-4.23E-06 -0.007396 -2.378693
0.75000 -0.047335 -0.093729 -0.051601
-4.23E-06 -0.025988 -2.385702
1.00000 -0.047335 -0.071706 -0.051601
-4.23E-06 -0.048767 -2.455541

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.072514 6.207331 0.074364
0.000844 0.173762 14.066226
0.25000 0.072514 24.442246 0.074364
0.000844 0.081722 57.774919
0.50000 0.072514 48.122839 0.074364
0.000844 0.036864 72.701012
0.75000 0.072514 68.094662 0.074364
0.000844 0.173985 50.471457
1.00000 0.072514 94.196854 0.074364
0.000844 0.345850 13.089746

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.046585 -92.542478 -0.151636
-3.85E-07 -0.403691 -65.474189
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4594

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -0.046585 -70.187099 -0.151636
-3.85E-07 -0.216348 -26.789368
0.50000 -0.046585 -48.022882 -0.151636
-3.85E-07 -0.039415 -21.757721
0.75000 -0.046585 -25.027175 -0.151636
-3.85E-07 -0.101858 -18.004383
1.00000 -0.046585 -9.038336 -0.151636
-3.85E-07 -0.193900 -59.083130

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.088638 5.786199 0.081643
0.001280 0.194300 13.373290
0.25000 0.088638 22.265439 0.081643
0.001280 0.093281 52.808667
0.50000 0.088638 43.666040 0.081643
0.001280 0.035013 66.298617
0.75000 0.088638 61.714956 0.081643
0.001280 0.191226 46.197212
1.00000 0.088638 85.304004 0.081643
0.001280 0.386091 12.418710

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.077808 -83.692546 -0.169064
-3.46E-07 -0.449656 -60.829367
0.25000 -0.077808 -63.489565 -0.169064
-3.46E-07 -0.240797 -25.797316
0.50000 -0.077808 -43.459341 -0.169064
-3.46E-07 -0.041811 -21.178278
0.75000 -0.077808 -22.677684 -0.169064
-3.46E-07 -0.108342 -17.715215
1.00000 -0.077808 -8.228266 -0.169064
-3.46E-07 -0.209359 -54.768455

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.116693 4.667533 0.165087
0.001072 0.398404 12.010575
0.25000 0.116693 15.480386 0.165087
0.001072 0.194299 37.044425
0.50000 0.116693 29.522390 0.165087
0.001072 0.026299 45.273346
0.75000 0.116693 41.365186 0.165087
0.001072 0.302374 31.696745
1.00000 0.116693 56.843139 0.165087
0.001072 0.614384 9.325334

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.108805 -55.057879 -0.260014
-0.000694 -0.671086 -43.090785
0.25000 -0.108805 -41.801694 -0.260014
-0.000694 -0.349620 -20.146623
0.50000 -0.108805 -28.658863 -0.260014
-0.000694 -0.036417 -17.157958
0.75000 -0.108805 -15.022979 -0.260014
-0.000694 -0.213643 -14.928201
1.00000 -0.108805 -5.541994 -0.260014
-0.000694 -0.417766 -39.283409

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.067406 0.781997 0.161731
1.15E-05 0.394755 2.988571
0.25000 0.067406 0.807114 0.161731
1.15E-05 0.194904 2.256266
0.50000 0.067406 0.839732 0.161731
1.15E-05 0.002304 1.563462
0.75000 0.067406 0.867241 0.161731
1.15E-05 0.241273 1.016958
1.00000 0.067406 0.903195 0.161731
1.15E-05 0.544287 0.944287
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4595

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.062387 -0.204135 -0.200937
-0.001137 -0.503817 -3.318930
0.25000 -0.062387 -0.173343 -0.200937
-0.001137 -0.255658 -3.335395
0.50000 -0.062387 -0.142814 -0.200937
-0.001137 -0.009097 -3.398214
0.75000 -0.062387 -0.111139 -0.200937
-0.001137 -0.204841 -3.462803
1.00000 -0.062387 -0.089116 -0.200937
-0.001137 -0.404706 -3.589159

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.107080 7.472626 0.230193
0.000123 0.558752 16.877949
0.25000 0.107080 29.676022 0.230193
0.000123 0.274317 70.279214
0.50000 0.107080 58.512042 0.230193
0.000123 0.041588 88.475580
0.75000 0.107080 82.828549 0.230193
0.000123 0.366570 61.402212
1.00000 0.107080 114.611384 0.230193
0.000123 0.729985 15.979902

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.079796 -112.741041 -0.309384
-0.001257 -0.799706 -79.358951
0.25000 -0.079796 -85.520442 -0.309384
-0.001257 -0.401429 -32.299554
0.50000 -0.079796 -58.532607 -0.309384
-0.001257 -0.046077 -26.217299
0.75000 -0.079796 -30.532326 -0.309384
-0.001257 -0.294648 -21.689660
1.00000 -0.079796 -11.063822 -0.309384
-0.001257 -0.579120 -71.750379

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.126287 5.947502 0.225073
0.000581 0.541481 14.839375
0.25000 0.126287 21.183452 0.225073
0.000581 0.263265 50.602166
0.50000 0.126287 40.969468 0.225073
0.000581 0.032939 62.322529
0.75000 0.126287 57.656669 0.225073
0.000581 0.385239 43.179923
1.00000 0.126287 79.469021 0.225073
0.000581 0.775089 11.756799

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.088114 -77.383470 -0.325969
-0.001144 -0.836561 -57.750191
0.25000 -0.088114 -58.704720 -0.325969
-0.001144 -0.433788 -25.506598
0.50000 -0.088114 -40.185692 -0.325969
-0.001144 -0.040994 -21.381484
0.75000 -0.088114 -20.971924 -0.325969
-0.001144 -0.292331 -18.324176
1.00000 -0.088114 -7.612655 -0.325969
-0.001144 -0.571153 -52.725635

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.123724 5.182957 0.199039
0.000943 0.480912 13.104818
0.25000 0.123724 17.785394 0.199039
0.000943 0.234825 42.445956
0.50000 0.123724 34.151423 0.199039
0.000943 0.028694 52.094327
0.75000 0.123724 47.954263 0.199039
0.000943 0.353005 36.257949
1.00000 0.123724 65.993898 0.199039
0.000943 0.714172 10.244958
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4596

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.109929 -64.049580 -0.300971
-0.000954 -0.773934 -49.287361
0.25000 -0.109929 -48.599426 -0.300971
-0.000954 -0.402061 -22.581458
0.50000 -0.109929 -33.281388 -0.300971
-0.000954 -0.039305 -19.133856
0.75000 -0.109929 -17.388694 -0.300971
-0.000954 -0.256884 -16.569790
1.00000 -0.109929 -6.338556 -0.300971
-0.000954 -0.502966 -44.989911

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.134423 0.252093 0.038682
0.000664 0.097055 1.584116
0.25000 0.134423 0.263379 0.038682
0.000664 0.049375 1.504050
0.50000 0.134423 0.283345 0.038682
0.000664 0.004510 1.449143
0.75000 0.134423 0.304551 0.038682
0.000664 0.058129 1.403595
1.00000 0.134423 0.322160 0.038682
0.000664 0.126819 1.383943

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.069046 -0.271063 -0.054963
-2.34E-07 -0.144675 -2.861290
0.25000 -0.069046 -0.252006 -0.054963
-2.34E-07 -0.076366 -2.736131
0.50000 -0.069046 -0.220476 -0.054963
-2.34E-07 -0.011139 -2.681273
0.75000 -0.069046 -0.211204 -0.054963
-2.34E-07 -0.044593 -2.681341
1.00000 -0.069046 -0.204322 -0.054963
-2.34E-07 -0.092315 -2.753473

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.146122 0.838091 0.063845
0.001211 0.158982 3.455266
0.25000 0.146122 1.165367 0.063845
0.001211 0.080468 3.772646
0.50000 0.146122 1.744393 0.063845
0.001211 0.008878 3.846724
0.75000 0.146122 2.359377 0.063845
0.001211 0.126596 3.310094
1.00000 0.146122 2.870017 0.063845
0.001211 0.269887 2.694358

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.188056 -2.445343 -0.115849
-2.34E-07 -0.302291 -6.702093
0.25000 -0.188056 -1.892698 -0.115849
-2.34E-07 -0.158398 -5.942923
0.50000 -0.188056 -1.268325 -0.115849
-2.34E-07 -0.021850 -5.979525
0.75000 -0.188056 -0.709435 -0.115849
-2.34E-07 -0.074782 -6.186838
1.00000 -0.188056 -0.509838 -0.115849
-2.34E-07 -0.153574 -7.473477

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.166060 1.354975 0.119063
0.001388 0.287358 5.639838
0.25000 0.166060 1.365132 0.119063
0.001388 0.140249 4.813631
0.50000 0.166060 1.383102 0.119063
0.001388 0.013111 4.198555
0.75000 0.166060 1.402188 0.119063
0.001388 0.225475 3.936813
1.00000 0.166060 1.418035 0.119063
0.001388 0.470483 3.930238
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4597

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.164569 -0.402688 -0.197864
-6.74E-06 -0.507087 -8.366055
0.25000 -0.164569 -0.385537 -0.197864
-6.74E-06 -0.261025 -8.676221
0.50000 -0.164569 -0.366160 -0.197864
-6.74E-06 -0.030911 -9.187818
0.75000 -0.164569 -0.348815 -0.197864
-6.74E-06 -0.149763 -9.893318
1.00000 -0.164569 -0.342621 -0.197864
-6.74E-06 -0.297181 -10.853079

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.226182 4.867522 0.217333
0.001150 0.529233 11.172168
0.25000 0.226182 12.764472 0.217333
0.001150 0.262806 28.006768
0.50000 0.226182 26.735962 0.217333
0.001150 0.032182 36.140590
0.75000 0.226182 41.575095 0.217333
0.001150 0.362692 24.866150
1.00000 0.226182 53.896499 0.217333
0.001150 0.735707 9.688166

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.165007 -52.711166 -0.308464
-0.000387 -0.790138 -40.253085
0.25000 -0.165007 -39.376220 -0.308464
-0.000387 -0.408660 -21.497047
0.50000 -0.165007 -24.310532 -0.308464
-0.000387 -0.047487 -19.558542
0.75000 -0.165007 -10.824915 -0.308464
-0.000387 -0.276219 -18.283911
1.00000 -0.165007 -6.008772 -0.308464
-0.000387 -0.544412 -39.900726

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.026293 0.633565 0.036521
0.000569 0.087926 2.195757
0.25000 0.026293 0.644850 0.036521
0.000569 0.042912 1.823718
0.50000 0.026293 0.664816 0.036521
0.000569 0.004964 1.547370
0.75000 0.026293 0.686023 0.036521
0.000569 0.090931 1.392256
1.00000 0.026293 0.703631 0.036521
0.000569 0.188249 1.370685

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.124359	-0.171155	-0.078784
-2.34E-06	-0.201034	-3.326226	
0.25000	-0.124359	-0.152099	-0.078784
-2.34E-06	-0.103170	-3.536524	
0.50000	-0.124359	-0.130569	-0.078784
-2.34E-06	-0.012328	-3.835797	
0.75000	-0.124359	-0.111297	-0.078784
-2.34E-06	-0.047181	-4.237671	
1.00000	-0.124359	-0.104414	-0.078784
-2.34E-06	-0.092028	-4.793613	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.098014	6.070242	0.129931
0.000735	0.309927	11.508357	
0.25000	0.098014	18.089180	0.129931
0.000735	0.156051	37.958673	
0.50000	0.098014	39.353399	0.129931
0.000735	0.037536	50.942832	
0.75000	0.098014	61.938145	0.129931
0.000735	0.250273	33.858130	
1.00000	0.098014	80.689379	0.129931
0.000735	0.495879	10.554008	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.103044	-79.701199	-0.209457
-2.34E-07	-0.541645	-53.343471	
0.25000	-0.103044	-59.405782	-0.209457
-2.34E-07	-0.283333	-24.548995	
0.50000	-0.103044	-36.476225	-0.209457
-2.34E-07	-0.043691	-21.163464	
0.75000	-0.103044	-15.951491	-0.209457
-2.34E-07	-0.172368	-18.644866	
1.00000	-0.103044	-8.621455	-0.209457
-2.34E-07	-0.331829	-50.750391	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.137693	5.722900	0.142299
0.001177	0.342767	11.693645	
0.25000	0.137693	16.600885	0.142299
0.001177	0.172940	35.495210	
0.50000	0.137693	35.846501	0.142299
0.001177	0.037424	47.183464	
0.75000	0.137693	56.287286	0.142299
0.001177	0.275482	31.669991	
1.00000	0.137693	73.259922	0.142299
0.001177	0.555523	10.566608	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.153076	-72.243560	-0.235905
-2.11E-07	-0.612315	-50.879597	
0.25000	-0.153076	-53.874779	-0.235905
-2.11E-07	-0.320818	-24.767933	
0.50000	-0.153076	-33.121914	-0.235905
-2.11E-07	-0.048540	-21.681588	
0.75000	-0.153076	-14.545585	-0.235905
-2.11E-07	-0.183751	-19.408939	
1.00000	-0.153076	-7.911387	-0.235905
-2.11E-07	-0.358610	-48.510498	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.187670	4.485821	0.263604
0.000987	0.639125	10.806170	
0.25000	0.187670	11.045453	0.263604
0.000987	0.317062	24.480689	
0.50000	0.187670	22.650924	0.263604
0.000987	0.029000	31.016997	
0.75000	0.187670	34.977196	0.263604
0.000987	0.431650	21.524722	
1.00000	0.187670	45.211927	0.263604
0.000987	0.875325	8.899101	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.171265	-43.782126	-0.364332
-0.000694	-0.926603	-35.832618	
0.25000	-0.171265	-32.705402	-0.364332
-0.000694	-0.475955	-20.471057	
0.50000	-0.171265	-20.191030	-0.364332
-0.000694	-0.103102	-19.112801	
0.75000	-0.171265	-8.989151	-0.364332
-0.000694	-0.335030	-18.341800	
1.00000	-0.171265	-4.988604	-0.364332
-0.000694	-0.660707	-36.653801	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.100102	0.884896	0.239148
9.25E-06	0.584110	3.124990	
0.25000	0.100102	0.896182	0.239148
9.25E-06	0.288890	2.618010	
0.50000	0.100102	0.916148	0.239148
9.25E-06	0.004479	2.219375	
0.75000	0.100102	0.937355	0.239148
9.25E-06	0.338671	1.970625	
1.00000	0.100102	0.954963	0.239148
9.25E-06	0.685330	1.864227	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.083236	-0.175058	-0.280314
-0.001182	-0.700187	-4.769948	
0.25000	-0.083236	-0.156028	-0.280314
-0.001182	-0.353623	-5.162006	
0.50000	-0.083236	-0.134498	-0.280314
-0.001182	-0.015086	-5.674986	
0.75000	-0.083236	-0.115226	-0.280314
-0.001182	-0.300266	-6.287990	
1.00000	-0.083236	-0.108344	-0.280314
-0.001182	-0.596252	-7.053667	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.202077	8.258481	0.348954
8.48E-05	0.850319	14.800054	
0.25000	0.202077	25.321987	0.348954
8.48E-05	0.428772	52.624718	
0.50000	0.202077	55.511188	0.348954
8.48E-05	0.047348	71.260523	
0.75000	0.202077	87.575166	0.348954
8.48E-05	0.515740	47.117585	
1.00000	0.202077	114.198907	0.348954
8.48E-05	1.021973	14.080591	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.094566	-113.156025	-0.424651
-0.001318	-1.080047	-73.894611	
0.25000	-0.094566	-84.342251	-0.424651
-0.001318	-0.557642	-32.941629	
0.50000	-0.094566	-51.788738	-0.424651
-0.001318	-0.052996	-27.990708	
0.75000	-0.094566	-22.649398	-0.424651
-0.001318	-0.444829	-24.171571	
1.00000	-0.094566	-12.242812	-0.424651
-0.001318	-0.874863	-69.423099	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.187703	6.789519	0.350707
0.000463	0.849554	13.839698	
0.25000	0.187703	19.089464	0.350707
0.000463	0.423163	40.572329	
0.50000	0.187703	40.850846	0.350707
0.000463	0.040679	53.595373	
0.75000	0.187703	63.963630	0.350707
0.000463	0.546164	35.917626	
1.00000	0.187703	83.154910	0.350707
0.000463	1.092077	11.980988	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126532	-81.607306	-0.452552
-0.001198	-1.146792	-57.721973	
0.25000	-0.126532	-60.837377	-0.452552
-0.001198	-0.588331	-28.567284	
0.50000	-0.126532	-37.371720	-0.452552
-0.001198	-0.053861	-25.479297	
0.75000	-0.126532	-16.367112	-0.452552
-0.001198	-0.449607	-23.317012	
1.00000	-0.126532	-8.865698	-0.452552
-0.001198	-0.882532	-56.643345	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.182121	5.929121	0.311834
0.000848	0.756951	12.745103	
0.25000	0.182121	16.136754	0.311834
0.000848	0.377493	34.727236	
0.50000	0.182121	34.196365	0.311834
0.000848	0.036602	45.414797	
0.75000	0.182121	53.377495	0.311834
0.000848	0.504113	30.712603	
1.00000	0.182121	69.304197	0.311834
0.000848	1.014900	10.869041	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193711	-67.802716	-0.422105
-0.000998	-1.073186	-50.192870	
0.25000	-0.193711	-50.565904	-0.422105
-0.000998	-0.551925	-26.033501	
0.50000	-0.193711	-31.091928	-0.422105
-0.000998	-0.052935	-23.553656	
0.75000	-0.193711	-13.660358	-0.422105
-0.000998	-0.397040	-21.889036	
1.00000	-0.193711	-7.434990	-0.422105
-0.000998	-0.781939	-49.741478	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.126287	7.472626	0.230193
0.001464	0.558752	16.877949	
0.25000	0.126287	29.676022	0.230193
0.001464	0.274317	70.279214	
0.50000	0.126287	58.510242	0.230193
0.001464	0.041588	88.475580	
0.75000	0.126287	82.828549	0.230193
0.001464	0.385239	54.622112	
1.00000	0.126287	114.611384	0.230193
0.001464	0.775089	15.979902	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.109929	-112.741041	-0.325969
-0.001257	-0.836561	-79.358951	
0.25000	-0.109929	-85.520442	-0.325969
-0.001257	-0.433788	-32.299554	
0.50000	-0.109929	-58.532607	-0.325969
-0.001257	-0.040677	-26.217299	
0.75000	-0.109929	-30.532326	-0.325969
-0.001257	-0.294648	-21.689660	
1.00000	-0.109929	-11.063822	-0.325969
-0.001257	-0.579120	-71.750379	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.226182	8.258481	0.350707
0.001388	0.850319	14.800054	
0.25000	0.226182	25.321987	0.350707
0.001388	0.428772	52.624718	
0.50000	0.226182	55.511188	0.350707
0.001388	0.047348	71.260523	
0.75000	0.226182	87.575166	0.350707
0.001388	0.546164	47.117585	
1.00000	0.226182	114.198907	0.350707
0.001388	1.092077	14.080591	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193711	-113.156025	-0.452552
-0.001318	-1.146792	-73.894611	
0.25000	-0.193711	-84.342251	-0.452552
-0.001318	-0.588331	-32.941629	
0.50000	-0.193711	-51.788738	-0.452552
-0.001318	-0.053861	-27.990708	
0.75000	-0.193711	-22.649398	-0.452552
-0.001318	-0.449607	-24.171571	
1.00000	-0.193711	-12.242812	-0.452552
-0.001318	-0.882532	-69.423099	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.226182	8.258481	0.350707
0.001464	0.850319	16.877949	
0.25000	0.226182	29.676022	0.350707
0.001464	0.428772	70.279214	
0.50000	0.226182	58.510242	0.350707
0.001464	0.047348	88.475580	
0.75000	0.226182	87.575166	0.350707
0.001464	0.546164	51.402212	
1.00000	0.226182	114.611384	0.350707
0.001464	1.092077	15.979902	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193711	-113.156025	-0.452552
-0.001318	-1.146792	-79.358951	
0.25000	-0.193711	-85.520442	-0.452552
-0.001318	-0.588331	-32.941629	
0.50000	-0.193711	-58.532607	-0.452552
-0.001318	-0.053861	-27.990708	
0.75000	-0.193711	-30.532326	-0.452552
-0.001318	-0.449607	-24.171571	
1.00000	-0.193711	-12.242812	-0.452552
-0.001318	-0.882532	-71.750379	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.226182	8.258481	0.350707
0.001464	0.850319	16.877949	
0.25000	0.226182	29.676022	0.350707
0.001464	0.428772	70.279214	
0.50000	0.226182	58.510242	0.350707
0.001464	0.047348	88.475580	
0.75000	0.226182	87.575166	0.350707
0.001464	0.546164	61.402212	
1.00000	0.226182	114.611384	0.350707
0.001464	1.092077	15.979902	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193711	-113.156025	-0.452552
-0.001318	-1.146792	-79.358951	
0.25000	-0.193711	-85.520442	-0.452552
-0.001318	-0.588331	-32.941629	
0.50000	-0.193711	-58.532607	-0.452552
-0.001318	-0.053861	-27.990708	
0.75000	-0.193711	-30.532326	-0.452552
-0.001318	-0.449607	-24.171571	
1.00000	-0.193711	-12.242812	-0.452552
-0.001318	-0.882532	-71.750379	

ELEM 448 ========== LENGTH = 3.459686

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.054190	0.248749	0.044362
0.000579	0.076803	0.756612	
0.25000	0.054190	0.274453	0.044362
0.000579	0.038521	0.788597	
0.50000	0.054190	0.302038	0.044362
0.000579	0.002094	0.793447	
0.75000	0.054190	0.330617	0.044362
0.000579	0.039537	0.767039	
1.00000	0.054190	0.350999	0.044362
0.000579	0.083093	0.726289	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.051813	-0.204487	-0.050393
-0.000384	-0.091285	-1.628105	
0.25000	-0.051813	-0.185096	-0.050393
-0.000384	-0.047751	-1.543468	
0.50000	-0.051813	-0.159418	-0.050393
-0.000384	-0.005054	-1.490797	
0.75000	-0.051813	-0.128833	-0.050393
-0.000384	-0.038332	-1.438892	
1.00000	-0.051813	-0.106270	-0.050393
-0.000384	-0.076691	-1.420417	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.061582	0.909297	0.073093
0.001034	0.126099	1.815675	
0.25000	0.061582	1.629014	0.073093
0.001034	0.062866	3.020867	
0.50000	0.061582	2.401394	0.073093
0.001034	0.004842	3.395012	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.061582	3.201610	0.073093
0.001034	0.079525	2.889206	
1.00000	0.061582	3.772299	0.073093
0.001034	0.168497	1.882541	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.132195	-3.802903	-0.103125
-0.000625	-0.188791	-5.457815	
0.25000	-0.132195	-3.259957	-0.103125
-0.000625	-0.099639	-4.292617	
0.50000	-0.132195	-2.540974	-0.103125
-0.000625	-0.012092	-4.005466	
0.75000	-0.132195	-1.684599	-0.103125
-0.000625	-0.065954	-3.721344	
1.00000	-0.132195	-1.052853	-0.103125
-0.000625	-0.128579	-4.338324	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.061102	1.063000	0.157117
0.001270	0.265947	1.919738	
0.25000	0.061102	1.086134	0.157117
0.001270	0.130039	1.936614	
0.50000	0.061102	1.119961	0.157117
0.001270	0.005388	1.926830	
0.75000	0.061102	1.136682	0.157117
0.001270	0.158294	1.888912	
1.00000	0.061102	1.155025	0.157117
0.001270	0.333541	1.876124	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.140325	-0.431885	-0.202642
-0.000501	-0.367636	-5.523511	
0.25000	-0.140325	-0.414433	-0.202642
-0.000501	-0.192386	-5.393427	
0.50000	-0.140325	-0.391323	-0.202642
-0.000501	-0.018192	-5.296257	
0.75000	-0.140325	-0.363797	-0.202642
-0.000501	-0.143276	-5.201129	
1.00000	-0.140325	-0.343490	-0.202642
-0.000501	-0.278826	-5.137456	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.100671	7.771839	0.299340
0.001256	0.510538	11.011146	
0.25000	0.100671	21.401468	0.299340
0.001256	0.251683	33.896530	
0.50000	0.100671	36.028428	0.299340
0.001256	0.026857	41.210263	
0.75000	0.100671	51.182519	0.299340
0.001256	0.279938	31.913887	
1.00000	0.100671	61.989940	0.299340
0.001256	0.583713	11.514477	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.120732	-62.941305	-0.354941
-0.000749	-0.653384	-46.200210	
0.25000	-0.120732	-52.659273	-0.354941
-0.000749	-0.346419	-26.278448	
0.50000	-0.120732	-39.043528	-0.354941
-0.000749	-0.047504	-22.887561	
0.75000	-0.120732	-22.825939	-0.354941
-0.000749	-0.270762	-19.499787	
1.00000	-0.120732	-10.862233	-0.354941
-0.000749	-0.526079	-33.118265	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.003065	0.486656	0.050390
0.000511	0.084562	0.769461	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.003065	0.512360	0.050390
0.000511	0.040960	0.800462	
0.50000	0.003065	0.539945	0.050390
0.000511	0.002104	0.804926	
0.75000	0.003065	0.568524	0.050390
0.000511	0.059415	0.778068	
1.00000	0.003065	0.588906	0.050390
0.000511	0.126393	0.787094	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.085114	-0.499037	-0.077425
-0.000190	-0.141485	-2.458793	
0.25000	-0.085114	-0.479647	-0.077425
-0.000190	-0.074508	-2.356237	
0.50000	-0.085114	-0.453959	-0.077425
-0.000190	-0.007912	-2.288782	
0.75000	-0.085114	-0.423384	-0.077425
-0.000190	-0.047963	-2.222541	
1.00000	-0.085114	-0.400821	-0.077425
-0.000190	-0.091304	-2.190196	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.027895	9.633989	0.185952
0.000712	0.314033	13.101561	
0.25000	0.027895	28.295207	0.185952
0.000712	0.153254	44.874745	
0.50000	0.027895	48.321935	0.185952
0.000712	0.032440	54.983676	
0.75000	0.027895	69.070393	0.185952
0.000712	0.183315	42.272395	
1.00000	0.027895	83.867542	0.185952
0.000712	0.385325	14.289547	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.091231	-85.846841	-0.238622
-0.000100	-0.452505	-59.092028	
0.25000	-0.091231	-71.769038	-0.238622
-0.000100	-0.246118	-31.857075	
0.50000	-0.091231	-53.126830	-0.238622
-0.000100	-0.049735	-27.252409	
0.75000	-0.091231	-30.922267	-0.238622
-0.000100	-0.174647	-22.649216	
1.00000	-0.091231	-14.541973	-0.238622
-0.000100	-0.330666	-41.325501	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.054706	8.844032	0.197177
0.001103	0.332886	12.432100	
0.25000	0.054706	25.708829	0.197177
0.001103	0.162431	41.139028	
0.50000	0.054706	43.807364	0.197177
0.001103	0.030932	50.267558	
0.75000	0.054706	62.558140	0.197177
0.001103	0.196907	38.778929	
1.00000	0.054706	75.930605	0.197177
0.001103	0.414474	13.467441	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.132703	-77.656863	-0.256099
-0.000382	-0.482638	-54.770980	
0.25000	-0.132703	-64.934485	-0.256099
-0.000382	-0.261108	-30.107224	
0.50000	-0.132703	-48.087167	-0.256099
-0.000382	-0.049224	-25.889550	
0.75000	-0.132703	-28.020482	-0.256099
-0.000382	-0.184012	-21.687729	
1.00000	-0.132703	-13.217299	-0.256099
-0.000382	-0.350272	-38.518858	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102369	6.678314	0.369612
0.001236	0.630744	9.344877	
0.25000	0.102369	17.743953	0.369612
0.001236	0.311110	27.915177	
0.50000	0.102369	29.619307	0.369612
0.001236	0.023185	33.894852	
0.75000	0.102369	41.922628	0.369612
0.001236	0.344609	26.342605	
1.00000	0.102369	50.696917	0.369612
0.001236	0.716030	9.734587	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.117661	-51.155004	-0.432408
-0.000920	-0.787243	-39.322723	
0.25000	-0.117661	-42.807236	-0.432408
-0.000920	-0.413223	-23.135134	
0.50000	-0.117661	-31.752869	-0.432408
-0.000920	-0.045881	-20.370949	
0.75000	-0.117661	-18.586114	-0.432408
-0.000920	-0.331991	-17.609634	
1.00000	-0.117661	-8.873006	-0.432408
-0.000920	-0.648826	-28.654617	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.088300	0.714531	0.340876
0.000484	0.587224	0.952568	
0.25000	0.088300	0.740235	0.340876
0.000484	0.292393	0.966073	
0.50000	0.088300	0.767820	0.340876
0.000484	0.003039	0.960686	
0.75000	0.088300	0.796400	0.340876
0.000484	0.301566	0.933825	
1.00000	0.088300	0.816781	0.340876
0.000484	0.618614	0.893655	

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.016834 -0.173503 -0.366637
-0.000960 -0.649916 -3.646268
0.25000 -0.016834 -0.154112 -0.366637
-0.000960 -0.332804 -3.590578
0.50000 -0.016834 -0.128434 -0.366637
-0.000960 -0.015912 -3.566285
0.75000 -0.016834 -0.097849 -0.366637
-0.000960 -0.297283 -3.542324
1.00000 -0.016834 -0.075287 -0.366637
-0.000960 -0.592103 -3.552093

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.141988 11.826762 0.494320
0.000669 0.849135 15.994098
0.25000 0.141988 34.549237 0.494320
0.000669 0.421670 54.484062
0.50000 0.141988 58.934399 0.494320
0.000669 0.039463 66.719464
0.75000 0.141988 84.198362 0.494320
0.000669 0.438385 51.245546
1.00000 0.141988 102.215827 0.494320
0.000669 0.903171 17.163767

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.021506 -104.362691 -0.543655
-0.001071 -0.992654 -71.812650
0.25000 -0.021506 -87.221125 -0.543655
-0.001071 -0.522435 -38.708449
0.50000 -0.021506 -64.521797 -0.543655
-0.001071 -0.064363 -33.156450
0.75000 -0.021506 -37.484836 -0.543655
-0.001071 -0.439115 -27.607367
1.00000 -0.021506 -17.539684 -0.543655
-0.001071 -0.861117 -50.406767
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4605

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.112292 8.772386 0.504028
0.000997 0.861717 11.774857
0.25000 0.112292 24.364528 0.504028
0.000997 0.425842 38.314420
0.50000 0.112292 41.097604 0.504028
0.000997 0.029899 46.752511
0.75000 0.112292 58.433713 0.504028
0.000997 0.455995 36.123323
1.00000 0.112292 70.797281 0.504028
0.000997 0.942783 12.695296

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.069326 -71.613354 -0.567131
-0.000978 -0.539568 -52.793214
0.25000 -0.069326 -59.850826 -0.567131
-0.000978 -0.539045 -30.048992
0.50000 -0.069326 -44.274568 -0.567131
-0.000978 -0.056971 -26.210843
0.75000 -0.069326 -25.721829 -0.567131
-0.000978 -0.450016 -22.373879
1.00000 -0.069326 -12.035485 -0.567131
-0.000978 -0.882155 -37.988661

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.108807 7.447129 0.441022
0.001203 0.754049 10.262523
0.25000 0.108807 20.344190 0.441022
0.001203 0.372641 32.208580
0.50000 0.108807 34.184976 0.441022
0.001203 0.026150 39.181980
0.75000 0.108807 48.524561 0.441022
0.001203 0.480720 30.383815
1.00000 0.108807 58.751103 0.441022
0.001203 0.847948 11.031647

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.115670 -59.459455 -0.510839
-0.001050 -0.927877 -45.042632
0.25000 -0.115670 -49.730064 -0.510839
-0.001050 -0.486043 -26.175019
0.50000 -0.115670 -36.846142 -0.510839
-0.001050 -0.044586 -22.948746
0.75000 -0.115670 -21.500219 -0.510839
-0.001050 -0.394591 -19.725653
1.00000 -0.115670 -10.179541 -0.510839
-0.001050 -0.772701 -32.593685

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.156768 0.310834 0.073132
0.000567 0.126458 1.380874
0.25000 0.156768 0.320079 0.073132
0.000567 0.062582 1.367562
0.50000 0.156768 0.338747 0.073132
0.000567 0.003911 1.367037
0.75000 0.156768 0.358122 0.073132
0.000567 0.058923 1.365542
1.00000 0.156768 0.374469 0.073132
0.000567 0.123084 1.373394

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.058554 -0.201746 -0.073803
-0.000348 -0.132414 -2.746670
0.25000 -0.058554 -0.184032 -0.073803
-0.000348 -0.068788 -2.823479
0.50000 -0.058554 -0.164310 -0.073803
-0.000348 -0.007896 -2.939784
0.75000 -0.058554 -0.146235 -0.073803
-0.000348 -0.062377 -3.076028
1.00000 -0.058554 -0.142496 -0.073803
-0.000348 -0.125953 -3.249321
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4606

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.146655 0.829568 0.131242
0.000978 0.222829 2.691305
0.25000 0.146655 1.097670 0.131242
0.000978 0.108782 3.129133
0.50000 0.146655 1.639067 0.131242
0.000978 0.007081 3.380871
0.75000 0.146655 2.200922 0.131242
0.000978 0.124959 3.149602
1.00000 0.146655 2.675005 0.131242
0.000978 0.263420 2.869573

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.259687 -2.595231 -0.159731
-0.000551 -0.290101 -7.459986
0.25000 -0.259687 -2.081529 -0.159731
-0.000551 -0.151652 -6.949768
0.50000 -0.259687 -1.509580 -0.159731
-0.000551 -0.020843 -6.957268
0.75000 -0.259687 -0.985418 -0.159731
-0.000551 -0.115005 -7.019966
1.00000 -0.259687 -0.876980 -0.159731
-0.000551 -0.229564 -7.744455

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.141788 1.206774 0.268387
0.001161 0.454838 3.925202
0.25000 0.141788 1.215094 0.268387
0.001161 0.221742 3.620302
0.50000 0.141788 1.231896 0.268387
0.001161 0.009087 3.540944
0.75000 0.141788 1.249333 0.268387
0.001161 0.246668 3.572910
1.00000 0.141788 1.264046 0.268387
0.001161 0.515459 3.672010

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.243781 -0.505625 -0.310347
-0.000458 -0.558989 -10.832724
0.25000 -0.243781 -0.489383 -0.310347
-0.000458 -0.290272 -11.116373
0.50000 -0.243781 -0.471633 -0.310347
-0.000458 -0.033652 -11.502103
0.75000 -0.243781 -0.455366 -0.310347
-0.000458 -0.237281 -11.992476
1.00000 -0.243781 -0.452000 -0.310347
-0.000458 -0.471032 -12.557230

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.231027 7.018957 0.472334
0.001145 0.808139 9.690764
0.25000 0.231027 13.488062 0.472334
0.001145 0.398453 20.721541
0.50000 0.231027 26.551605 0.472334
0.001145 0.025445 26.343376
0.75000 0.231027 40.108785 0.472334
0.001145 0.419277 19.446214
1.00000 0.231027 51.548073 0.472334
0.001145 0.867472 9.519572

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.208406 -51.086777 -0.520237
-0.000693 -0.941179 -39.880556
0.25000 -0.208406 -38.691521 -0.520237
-0.000693 -0.491087 -27.299426
0.50000 -0.208406 -24.890779 -0.520237
-0.000693 -0.056362 -25.341240
0.75000 -0.208406 -12.243117 -0.520237
-0.000693 -0.416661 -23.548923
1.00000 -0.208406 -9.626567 -0.520237
-0.000693 -0.824783 -36.665531
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4607

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.002446 0.440989 0.092125
0.000424 0.153449 1.370954
0.25000 0.002446 0.450234 0.092125
0.000424 0.073494 1.351433
0.50000 0.002446 0.468903 0.092125
0.000424 0.003311 1.370533
0.75000 0.002446 0.488277 0.092125
0.000424 0.095814 1.396726
1.00000 0.002446 0.504625 0.092125
0.000424 0.201979 1.471223

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.223357 -0.427631 -0.122697
-0.000176 -0.222434 -4.784324
0.25000 -0.223357 -0.409917 -0.122697
-0.000176 -0.116180 -4.774763
0.50000 -0.223357 -0.390195 -0.122697
-0.000176 -0.016062 -4.852019
0.75000 -0.223357 -0.372120 -0.122697
-0.000176 -0.083734 -4.953410
1.00000 -0.223357 -0.368381 -0.122697
-0.000176 -0.163975 -5.104198

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.068113 9.235969 0.304219
0.000593 0.517098 10.554366
0.25000 0.068113 19.081766 0.304219
0.000593 0.253186 27.833791
0.50000 0.068113 38.964115 0.304219
0.000593 0.029839 36.738714
0.75000 0.068113 59.597765 0.304219
0.000593 0.280886 26.112506
1.00000 0.068113 77.008043 0.304219
0.000593 0.583682 10.794719

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.193809 -77.208784 -0.353805
-8.06E-05 -0.652925 -50.732758
0.25000 -0.193809 -58.343360 -0.353805
-8.06E-05 -0.347021 -31.186957
0.50000 -0.193809 -37.339204 -0.353805
-8.06E-05 -0.055615 -27.731934
0.75000 -0.193809 -18.089816 -0.353805
-8.06E-05 -0.274930 -24.410687
1.00000 -0.193809 -14.107499 -0.353805
-8.06E-05 -0.535749 -43.712194

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.112467 8.533811 0.323581
0.000978 0.550159 10.566089
0.25000 0.112467 17.444950 0.323581
0.000978 0.269224 26.230335
0.50000 0.112467 35.439876 0.323581
0.000978 0.029633 34.306883
0.75000 0.112467 54.114782 0.323581
0.000978 0.299744 24.705201
1.00000 0.112467 69.872310 0.323581
0.000978 0.624800 10.857059

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.260528 -70.012783 -0.379020
-0.000333 -0.697987 -48.486158
0.25000 -0.260528 -52.938417 -0.379020
-0.000333 -0.370157 -30.793102
0.50000 -0.260528 -33.928005 -0.379020
-0.000333 -0.058385 -27.662795
0.75000 -0.260528 -16.505953 -0.379020
-0.000333 -0.290972 -24.704867
1.00000 -0.260528 -12.901676 -0.379020
-0.000333 -0.569109 -42.231326
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4608

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.190430 6.145324 0.572323
0.001105 0.979439 8.906700
0.25000 0.190430 11.518911 0.572323
0.001105 0.483568 17.969656
0.50000 0.190430 22.370193 0.572323
0.001105 0.022771 22.630070
0.75000 0.190430 33.631516 0.572323
0.001105 0.510612 16.846351
1.00000 0.190430 43.136004 0.572323
0.001105 1.054049 8.611887

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.228235 -42.485208 -0.630156
-0.000880 -1.133116 -36.633195
0.25000 -0.228235 -32.189101 -0.630156
-0.000880 -0.588154 -26.257130
0.50000 -0.228235 -20.725462 -0.630156
-0.000880 -0.058425 -24.711654
0.75000 -0.228235 -10.219634 -0.630156
-0.000880 -0.503595 -23.368849
1.00000 -0.228235 -8.046186 -0.630156
-0.000880 -0.998575 -34.424280

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.135227 0.757981 0.497752
0.000438 0.858670 1.881544
0.25000 0.135227 0.767226 0.497752
0.000438 0.427494 1.757423
0.50000 0.135227 0.785895 0.497752
0.000438 0.004343 1.711064
0.75000 0.135227 0.805269 0.497752
0.000438 0.432048 1.716755
1.00000 0.135227 0.821617 0.497752
0.000438 0.883185 1.725677

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.042262 -0.175986 -0.521563
-0.000981 -0.921238 -7.053694
0.25000 -0.042262 -0.158272 -0.521563
-0.000981 -0.470163 -7.332664
0.50000 -0.042262 -0.138550 -0.521563
-0.000981 -0.023090 -7.676355
0.75000 -0.042262 -0.120475 -0.521563
-0.000981 -0.430599 -8.080315
1.00000 -0.042262 -0.116736 -0.521563
-0.000981 -0.861690 -8.520335

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.263122 12.971099 0.734064
0.000571 1.266471 14.100951
0.25000 0.263122 26.949358 0.734064
0.000571 0.630553 38.653636
0.50000 0.263122 55.176693 0.734064
0.000571 0.040462 51.205003
0.75000 0.263122 84.470663 0.734064
0.000571 0.636209 36.115667
1.00000 0.263122 109.188354 0.734064
0.000571 1.302836 14.313319

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.044011 -109.410339 -0.776005
-0.001075 -1.399146 -69.418308
0.25000 -0.044011 -82.627020 -0.776005
-0.001075 -0.728804 -41.763574
0.50000 -0.044011 -52.806766 -0.776005
-0.001075 -0.070701 -36.912336
0.75000 -0.044011 -25.478057 -0.776005
-0.001075 -0.642432 -32.221182
1.00000 -0.044011 -19.824289 -0.776005
-0.001075 -1.274785 -59.620356
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4609

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.201386 9.973316 0.759032
0.000836 1.303800 11.996362
0.25000 0.201386 20.049311 0.759032
0.000836 0.645900 29.555937
0.50000 0.201386 40.396515 0.759032
0.000836 0.033159 38.625869
0.75000 0.201386 61.512585 0.759032
0.000836 0.667313 27.730525
1.00000 0.201386 79.329921 0.759032
0.000836 1.371250 12.000455

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.135759 -78.911249 -0.817494
-0.000976 -1.470127 -56.628602
0.25000 -0.135759 -59.604940 -0.817494
-0.000976 -0.763133 -36.945149
0.50000 -0.135759 -38.109507 -0.817494
-0.000976 -0.071888 -33.735280
0.75000 -0.135759 -18.410063 -0.817494
-0.000976 -0.667013 -30.689483
1.00000 -0.135759 -14.334638 -0.817494
-0.000976 -1.321843 -50.790726

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.188023 8.471256 0.674129
0.001058 1.156183 10.881782
0.25000 0.188023 16.833250 0.674129
0.001058 0.571720 25.446495
0.50000 0.188023 33.719245 0.674129
0.001058 0.029815 32.983235
0.75000 0.188023 51.243317 0.674129
0.001058 0.602106 23.970568
1.00000 0.188023 66.029792 0.674129
0.001058 1.240370 10.983491

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.254015 -65.721870 -0.740943
-0.001015 -1.334079 -49.722583
0.25000 -0.254015 -49.699706 -0.740943
-0.001015 -0.693293 -33.334430
0.50000 -0.254015 -31.860804 -0.740943
-0.001015 -0.068723 -30.637685
0.75000 -0.254015 -15.512380 -0.740943
-0.001015 -0.593148 -28.097494
1.00000 -0.254015 -12.130215 -0.740943
-0.001015 -1.175248 -44.802014

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.141988 11.826762 0.504028
0.001270 0.861717 15.994098
0.25000 0.141988 34.549237 0.504028
0.001270 0.425842 54.484062
0.50000 0.141988 58.934399 0.504028
0.001270 0.039463 66.719464
0.75000 0.141988 84.198362 0.504028
0.001270 0.455995 51.245546
1.00000 0.141988 102.215827 0.504028
0.001270 0.942783 17.163767

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.140325 -104.362691 -0.567131
-0.001071 -1.029568 -71.812650
0.25000 -0.140325 -87.221125 -0.567131
-0.001071 -0.539045 -38.708449
0.50000 -0.140325 -64.521797 -0.567131
-0.001071 -0.064363 -33.156450
0.75000 -0.140325 -37.484836 -0.567131
-0.001071 -0.450016 -27.607367
1.00000 -0.140325 -17.539684 -0.567131
-0.001071 -0.882155 -50.406767
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4610

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.263122 12.971099 0.759032
0.001161 1.303800 14.100951
0.25000 0.263122 26.949358 0.759032
0.001161 0.645900 38.653636
0.50000 0.263122 55.176693 0.759032
0.001161 0.040462 51.205003
0.75000 0.263122 84.470663 0.759032
0.001161 0.667313 36.115667
1.00000 0.263122 109.188354 0.759032
0.001161 1.371250 14.313319

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.260528 -109.410339 -0.817494
-0.001075 -1.470127 -69.418308
0.25000 -0.260528 -82.627020 -0.817494
-0.001075 -0.763133 -41.763574
0.50000 -0.260528 -52.806766 -0.817494
-0.001075 -0.071888 -36.912336
0.75000 -0.260528 -25.478057 -0.817494
-0.001075 -0.667013 -32.221182
1.00000 -0.260528 -19.824289 -0.817494
-0.001075 -1.321843 -59.620356

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.263122 12.971099 0.759032
0.001270 1.303800 15.994098
0.25000 0.263122 34.549237 0.759032
0.001270 0.645900 54.484062
0.50000 0.263122 58.934399 0.759032
0.001270 0.040462 66.719464
0.75000 0.263122 84.470663 0.759032
0.001270 0.667313 51.245546
1.00000 0.263122 109.188354 0.759032
0.001270 1.371250 17.163767

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.260528 -109.410339 -0.817494
-0.001075 -1.470127 -71.812650
0.25000 -0.260528 -87.221125 -0.817494
-0.001075 -0.763133 -41.763574
0.50000 -0.260528 -64.521797 -0.817494
-0.001075 -0.071888 -36.912336
0.75000 -0.260528 -37.484836 -0.817494
-0.001075 -0.667013 -32.221182
1.00000 -0.260528 -19.824289 -0.817494
-0.001075 -1.321843 -59.620356

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.263122 12.971099 0.759032
0.001270 1.303800 15.994098
0.25000 0.263122 34.549237 0.759032
0.001270 0.645900 54.484062
0.50000 0.263122 58.934399 0.759032
0.001270 0.040462 66.719464
0.75000 0.263122 84.470663 0.759032
0.001270 0.667313 51.245546
1.00000 0.263122 109.188354 0.759032
0.001270 1.371250 17.163767

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.260528 -109.410339 -0.817494
-0.001075 -1.470127 -71.812650
0.25000 -0.260528 -87.221125 -0.817494
-0.001075 -0.763133 -41.763574
0.50000 -0.260528 -64.521797 -0.817494
-0.001075 -0.071888 -36.912336
0.75000 -0.260528 -37.484836 -0.817494
-0.001075 -0.667013 -32.221182
1.00000 -0.260528 -19.824289 -0.817494
-0.001075 -1.321843 -59.620356
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4611

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 449 ========== LENGTH = 3.460360

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.087720 0.105474 0.050791
0.000382 0.084119 0.731690
0.25000 0.087720 0.128033 0.050791
0.000382 0.040174 0.726001
0.50000 0.087720 0.158618 0.050791
0.000382 0.002497 0.705958
0.75000 0.087720 0.184302 0.050791
0.000382 0.037323 0.678236
1.00000 0.087720 0.203696 0.050791
0.000382 0.074497 0.645940

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.117072 -0.352069 -0.043095
-0.000584 -0.074780 -1.417605
0.25000 -0.117072 -0.331692 -0.043095
-0.000584 -0.037496 -1.323068

0.50000	-0.117072	-0.303110	-0.043095
-0.000584	-0.004437	-1.373751	
0.75000	-0.117072	-0.275522	-0.043095
-0.000584	-0.047871	-1.425249	
1.00000	-0.117072	-0.249810	-0.043095
-0.000584	-0.091796	-1.508863	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.092887	1.053673	0.104122
0.000623	0.170623	1.892206	
0.25000	0.092887	1.685309	0.104122
0.000623	0.080773	2.816026	
0.50000	0.092887	2.541696	0.104122
0.000623	0.005594	3.238729	
0.75000	0.092887	3.260843	0.104122
0.000623	0.063186	2.823489	
1.00000	0.092887	3.803885	0.104122
0.000623	0.126692	1.630137	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.219279	-3.771696	-0.073483
-0.001041	-0.127490	-4.341162	
0.25000	-0.219279	-3.201145	-0.073483
-0.001041	-0.064369	-3.511634	
0.50000	-0.219279	-2.400848	-0.073483
-0.001041	-0.011366	-3.794026	
0.75000	-0.219279	-1.628380	-0.073483
-0.001041	-0.100210	-4.080670	
1.00000	-0.219279	-0.908438	-0.073483
-0.001041	-0.190237	-5.245673	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.084594	0.347455	0.207189
0.000499	0.341254	1.891607	
0.25000	0.084594	0.367757	0.207189
0.000499	0.162102	1.791506	
0.50000	0.084594	0.395284	0.207189
0.000499	0.006419	1.716059	
0.75000	0.084594	0.418400	0.207189
0.000499	0.127973	1.669338	
1.00000	0.084594	0.435854	0.207189
0.000499	0.261526	1.713246	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.213102	-1.156951	-0.154439
-0.001275	-0.272831	-5.162069	
0.25000	-0.213102	-1.138612	-0.154439
-0.001275	-0.139428	-4.919876	
0.50000	-0.213102	-1.112688	-0.154439
-0.001275	-0.017895	-5.011533	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4612

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.213102	-1.088059	-0.154439
-0.001275	-0.196530	-5.105716	
1.00000	-0.213102	-1.064918	-0.154439
-0.001275	-0.375711	-5.231931	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.149009	10.858606	0.360632
0.000748	0.593903	11.525533	
0.25000	0.149009	22.820218	0.360632
0.000748	0.284885	31.816172	
0.50000	0.149009	39.038047	0.360632
0.000748	0.027890	41.007587	
0.75000	0.149009	52.656889	0.360632
0.000748	0.248559	33.668459	
1.00000	0.149009	62.940754	0.360632
0.000748	0.503928	10.819455	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185908	-61.995516	-0.295314
-0.001265	-0.117907	-33.177429	
0.25000	-0.185908	-51.190702	-0.295314
-0.001265	-0.266409	-19.214051	
0.50000	-0.185908	-36.035065	-0.295314
-0.001265	-0.047343	-22.598331	
0.75000	-0.185908	-21.406451	-0.295314
-0.001265	-0.351767	-25.986333	
1.00000	-0.185908	-7.772561	-0.295314
-0.001265	-0.663700	-45.902007	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.004231	0.403018	0.079681
0.000190	0.130115	0.792924	
0.25000	0.004231	0.425576	0.079681
0.000190	0.061181	0.740915	
0.50000	0.004231	0.456161	0.079681
0.000190	0.002522	0.722953	
0.75000	0.004231	0.481845	0.079681
0.000190	0.041294	0.698831	
1.00000	0.004231	0.501240	0.079681
0.000190	0.085474	0.666448	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.091984	-0.586883	-0.050707
-0.000512	-0.090000	-2.202598	
0.25000	-0.091984	-0.566506	-0.050707
-0.000512	-0.046263	-2.113062	
0.50000	-0.091984	-0.537924	-0.050707
-0.000512	-0.007924	-2.178014	
0.75000	-0.091984	-0.510336	-0.050707
-0.000512	-0.076706	-2.245736	
1.00000	-0.091984	-0.484624	-0.050707
-0.000512	-0.145628	-2.348219	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.035023	14.539272	0.243845
0.000100	0.394844	14.300768	
0.25000	0.035023	30.916699	0.243845
0.000100	0.187836	42.211751	
0.50000	0.035023	53.121691	0.243845
0.000100	0.033124	54.865499	
0.75000	0.035023	71.768040	0.243845
0.000100	0.151832	44.708884	
1.00000	0.035023	85.848352	0.243845
0.000100	0.310530	12.980582	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093873	-83.872118	-0.183530
-0.000714	-0.324499	-41.372201	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4613

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.093873	-69.078540	-0.183530
-0.000714	-0.171141	-22.476988	
0.50000	-0.093873	-48.327965	-0.183530
-0.000714	-0.050049	-27.078790	
0.75000	-0.093873	-28.298971	-0.183530
-0.000714	-0.251267	-31.682395	
1.00000	-0.093873	-9.631920	-0.183530
-0.000714	-0.462206	-58.912323	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070778	13.214746	0.260953
0.000381	0.423542	13.482135	
0.25000	0.070778	28.015338	0.260953
0.000381	0.201339	38.685680	
0.50000	0.070778	48.082321	0.260953
0.000381	0.031870	50.091224	
0.75000	0.070778	64.933471	0.260953
0.000381	0.159734	40.901418	
1.00000	0.070778	77.658117	0.260953
0.000381	0.327193	12.221525	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.184360	-75.935484	-0.193656
-0.001108	-0.342915	-38.560236	
0.25000	-0.184360	-62.566246	-0.193656
-0.001108	-0.180259	-21.439217	
0.50000	-0.184360	-43.813557	-0.193656
-0.001108	-0.049215	-25.645370	
0.75000	-0.184360	-25.712974	-0.193656
-0.001108	-0.265716	-29.855134	
1.00000	-0.184360	-8.843205	-0.193656
-0.001108	-0.491431	-54.513792	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.148602	8.871169	0.438712
0.000920	0.727222	9.754069	
0.25000	0.148602	18.582577	0.438712
0.000920	0.350019	26.245438	
0.50000	0.148602	31.749528	0.438712
0.000920	0.024262	33.689555	
0.75000	0.148602	42.806409	0.438712
0.000920	0.307391	27.641738	
1.00000	0.148602	51.155685	0.438712
0.000920	0.622970	9.173680	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.168217	-50.700985	-0.364845
-0.001240	-0.639517	-28.731006	
0.25000	-0.168217	-41.928759	-0.364845
-0.001240	-0.527126	-17.315818	
0.50000	-0.168217	-29.624183	-0.364845
-0.001240	-0.046059	-20.074009	
0.75000	-0.168217	-17.747486	-0.364845
-0.001240	-0.419295	-22.835964	
1.00000	-0.168217	-6.678388	-0.364845
-0.001240	-0.798763	-39.017311	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139045	0.075440	0.370162
0.000963	0.624514	0.904227	
0.25000	0.139045	0.097999	0.370162
0.000963	0.304296	0.899245	
0.50000	0.139045	0.128584	0.370162
0.000963	0.003433	0.880672	
0.75000	0.139045	0.154268	0.370162
0.000963	0.289833	0.860572	
1.00000	0.139045	0.173662	0.370162
0.000963	0.582018	0.846166	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4614

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.025636	-0.813485	-0.337751
-0.000484	-0.586724	-3.618581	
0.25000	-0.025636	-0.793108	-0.337751
-0.000484	-0.294547	-3.414253	
0.50000	-0.025636	-0.764526	-0.337751
-0.000484	-0.016155	-3.343171	
0.75000	-0.025636	-0.736938	-0.337751
-0.000484	-0.336175	-3.461754	
1.00000	-0.025636	-0.711226	-0.337751
-0.000484	-0.656398	-3.517194	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.211463	17.531913	0.549288
0.001075	0.913789	17.175966	
0.25000	0.211463	37.473573	0.549288
0.001075	0.443408	51.193855	
0.50000	0.211463	64.510935	0.549288
0.001075	0.039922	66.618968	
0.75000	0.211463	87.215426	0.549288
0.001075	0.417531	54.353744	
1.00000	0.211463	104.360048	0.549288
0.001075	0.840528	15.859730	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.035416	-102.219185	-0.489081
-0.000681	-0.851868	-50.512145	
0.25000	-0.035416	-84.066948	-0.489081
-0.000681	-0.435145	-27.435987	
0.50000	-0.035416	-58.939527	-0.489081
-0.000681	-0.064822	-32.982488	
0.75000	-0.035416	-34.551606	-0.489081
-0.000681	-0.527907	-38.533010	
1.00000	-0.035416	-11.822029	-0.489081
-0.000681	-1.003090	-71.633505	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171699	12.032549	0.575548
0.000977	0.957490	12.715466	
0.25000	0.171699	25.716499	0.575548
0.000977	0.462877	36.042753	
0.50000	0.171699	44.269512	0.575548
0.000977	0.030803	46.583616	
0.75000	0.171699	59.849313	0.575548
0.000977	0.420550	38.080200	
1.00000	0.171699	71.613937	0.575548
0.000977	0.850615	11.571697	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074100	-70.799938	-0.497202
-0.000997	-0.869881	-38.097497	
0.25000	-0.074100	-58.439353	-0.497202
-0.000997	-0.444149	-22.117527	
0.50000	-0.074100	-41.101476	-0.497202
-0.000997	-0.057719	-25.951641	
0.75000	-0.074100	-24.366507	-0.497202
-0.000997	-0.547296	-29.786594	
1.00000	-0.074100	-8.769491	-0.497202
-0.000997	-1.045193	-52.525544	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.162250	10.177988	0.517779
0.001048	0.860273	11.052110	
0.25000	0.162250	21.496685	0.517779
0.001048	0.415067	30.289260	
0.50000	0.162250	36.842835	0.517779
0.001048	0.027215	38.982255	
0.75000	0.162250	49.729688	0.517779
0.001048	0.370501	31.939225	
1.00000	0.162250	59.460813	0.517779
0.001048	0.747024	10.033817	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4615

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.152583	-58.752911	-0.435982
-0.001205	-0.762747	-32.685603	
0.25000	-0.152583	-48.528837	-0.435982
-0.001205	-0.389318	-19.432473	
0.50000	-0.152583	-34.187788	-0.435982
-0.001205	-0.051954	-22.652771	
0.75000	-0.152583	-20.345436	-0.435982
-0.001205	-0.492676	-25.876519	
1.00000	-0.152583	-7.444344	-0.435982
-0.001205	-0.940592	-44.740070	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.238919	0.144001	0.082469
0.000346	0.135883	1.376632	
0.25000	0.238919	0.147736	0.082469
0.000346	0.064087	1.347756	
0.50000	0.238919	0.165811	0.082469
0.000346	0.004136	1.324269	
0.75000	0.238919	0.185534	0.082469
0.000346	0.060707	1.304746	
1.00000	0.238919	0.203250	0.082469
0.000346	0.119893	1.301932	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.140186	-0.389970	-0.068433
-0.000573	-0.117211	-3.254647	
0.25000	-0.140186	-0.373623	-0.068433
-0.000573	-0.057724	-3.059607	
0.50000	-0.140186	-0.354247	-0.068433
-0.000573	-0.007790	-2.897902	
0.75000	-0.140186	-0.335577	-0.068433
-0.000573	-0.075916	-2.754215	
1.00000	-0.140186	-0.326325	-0.068433
-0.000573	-0.148479	-2.648220	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.237811	0.882866	0.176254
0.000549	0.287819	2.874621	
0.25000	0.237811	0.991778	0.176254
0.000549	0.134350	3.117799	
0.50000	0.237811	1.515361	0.176254
0.000549	0.007602	3.308757	
0.75000	0.237811	2.087340	0.176254
0.000549	0.106804	3.022806	
1.00000	0.237811	2.601095	0.176254
0.000549	0.213509	2.561677	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.365263	-2.699987	-0.123275
-0.000985	-0.214337	-7.752769	
0.25000	-0.365263	-2.224916	-0.123275
-0.000985	-0.107575	-6.993401	
0.50000	-0.365263	-1.663004	-0.123275
-0.000985	-0.021122	-6.894499	
0.75000	-0.365263	-1.121580	-0.123275
-0.000985	-0.199583	-6.944197	
1.00000	-0.365263	-0.853280	-0.123275
-0.000985	-0.320478	-7.298364	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.220010	0.458791	0.334584
0.000456	0.551533	3.679637	
0.25000	0.220010	0.462152	0.334584
0.000456	0.260326	3.530430	
0.50000	0.220010	0.478420	0.334584
0.000456	0.009913	3.444267	
0.75000	0.220010	0.496171	0.334584
0.000456	0.217951	3.502612	
1.00000	0.220010	0.512115	0.334584
0.000456	0.439497	3.777464	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4616

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.336637	-1.298140	-0.256284
-0.001168	-0.448083	-12.574191	
0.25000	-0.336637	-1.283427	-0.256284
-0.001168	-0.226170	-11.963377	
0.50000	-0.336637	-1.265988	-0.256284
-0.001168	-0.034019	-11.423854	
0.75000	-0.336637	-1.249186	-0.256284
-0.001168	-0.312456	-10.982838	
1.00000	-0.336637	-1.240859	-0.256284
-0.001168	-0.603800	-10.635944	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.312276	9.630297	0.547334
0.000692	0.908549	9.525460	
0.25000	0.312276	12.243776	0.547334
0.000692	0.435071	19.402972	
0.50000	0.312276	24.891965	0.547334
0.000692	0.026390	26.251181	
0.75000	0.312276	38.693409	0.547334
0.000692	0.393376	20.610836	
1.00000	0.312276	51.089963	0.547334
0.000692	0.789217	9.543528	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.291025	-51.586779	-0.457883
-0.001163	-0.797595	-36.693586	
0.25000	-0.291025	-40.147789	-0.457883
-0.001163	-0.404000	-23.518407	
0.50000	-0.291025	-26.589224	-0.457883
-0.001163	-0.056818	-25.261641	
0.75000	-0.291025	-13.525051	-0.457883
-0.001163	-0.516229	-27.164184	
1.00000	-0.291025	-7.051144	-0.457883
-0.001163	-0.991390	-39.680762	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.003242	0.373090	0.132447
0.000176	0.216682	1.473985	
0.25000	0.003242	0.376824	0.132447
0.000176	0.101300	1.383660	
0.50000	0.003242	0.394900	0.132447
0.000176	0.003751	1.336541	
0.75000	0.003242	0.414623	0.132447
0.000176	0.072061	1.303014	
1.00000	0.003242	0.432339	0.132447
0.000176	0.147758	1.309678	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.233181	-0.514548	-0.087326
-0.000426	-0.154702	-5.108229	
0.25000	-0.233181	-0.498201	-0.087326
-0.000426	-0.079181	-4.943720	
0.50000	-0.233181	-0.478825	-0.087326
-0.000426	-0.016406	-4.827359	
0.75000	-0.233181	-0.460155	-0.087326
-0.000426	-0.125539	-4.736528	
1.00000	-0.233181	-0.450903	-0.087326
-0.000426	-0.240633	-4.719647	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070053	14.109240	0.372790
8.05E-05	0.612901	10.800884	
0.25000	0.070053	18.086882	0.372790
8.05E-05	0.291694	26.081643	
0.50000	0.070053	37.337075	0.372790
8.05E-05	0.030631	36.677065	
0.75000	0.070053	58.342488	0.372790
8.05E-05	0.249964	27.767062	
1.00000	0.070053	77.209697	0.372790
8.05E-05	0.504318	10.471423	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4617

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.199400	-77.033937	-0.294135
-0.000595	-0.516695	-43.741369	
0.25000	-0.199400	-59.624113	-0.294135
-0.000595	-0.262289	-24.393885	
0.50000	-0.199400	-38.988355	-0.294135
-0.000595	-0.056134	-27.687135	
0.75000	-0.199400	-19.105048	-0.294135
-0.000595	-0.365309	-31.109833	
1.00000	-0.199400	-9.251942	-0.294135
-0.000595	-0.688330	-50.612715	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.155836	12.905555	0.403211
0.000332	0.661703	10.865596	
0.25000	0.155836	16.505602	0.403211
0.000332	0.313494	24.662712	
0.50000	0.155836	33.928381	0.403211
0.000332	0.030527	34.220739	
0.75000	0.155836	52.939759	0.403211
0.000332	0.265284	26.120393	
1.00000	0.155836	70.015913	0.403211
0.000332	0.534394	10.437417	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.319488	-69.907458	-0.311266
-0.000983	-0.545626	-42.260958	
0.25000	-0.319488	-54.149941	-0.311266
-0.000983	-0.279958	-24.677009	
0.50000	-0.319488	-35.473127	-0.311266
-0.000983	-0.059182	-27.591557	
0.75000	-0.319488	-17.477344	-0.311266
-0.000983	-0.393003	-30.655470	
1.00000	-0.319488	-8.559579	-0.311266
-0.000983	-0.743244	-48.274670	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.243922	8.051146	0.658095
0.000863	1.096781	8.617747	
0.25000	0.243922	10.222042	0.658095
0.000863	0.526913	16.801577	
0.50000	0.243922	20.728309	0.658095
0.000863	0.023931	22.533291	
0.75000	0.243922	32.192331	0.658095
0.000863	0.478050	17.862724	
1.00000	0.243922	42.489776	0.658095
0.000863	0.959993	8.774723	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.286520	-43.168712	-0.557254
-0.001108	-0.970215	-34.446973	
0.25000	-0.286520	-33.666871	-0.557254
-0.001108	-0.490475	-23.340257	
0.50000	-0.286520	-22.404398	-0.557254
-0.001108	-0.059655	-24.636538	
0.75000	-0.286520	-11.552593	-0.557254
-0.001108	-0.614510	-26.102631	
1.00000	-0.286520	-6.175017	-0.557254
-0.001108	-1.185270	-36.422063	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.165217	0.120549	0.533627
0.000984	0.901885	1.729334	
0.25000	0.165217	0.124283	0.533627
0.000984	0.439199	1.701797	
0.50000	0.165217	0.142359	0.533627
0.000984	0.004848	1.676340	
0.75000	0.165217	0.162082	0.533627
0.000984	0.423688	1.705650	
1.00000	0.165217	0.179798	0.533627
0.000984	0.847724	1.836652	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4618

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.061353	-0.827024	-0.490037
-0.000438	-0.848088	-8.514497	
0.25000	-0.061353	-0.810677	-0.490037
-0.000438	-0.424229	-8.065713	
0.50000	-0.061353	-0.791300	-0.490037
-0.000438	-0.023932	-7.652255	
0.75000	-0.061353	-0.772631	-0.490037

```
-0.000438   -0.481901   -7.296604
 1.00000    -0.061353   -0.763379   -0.490037
-0.000438   -0.943788   -7.005839

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.306079   19.823774    0.796019
 0.001078   1.334445   14.319245
 0.25000    0.306079   25.470906    0.796019
 0.001078   0.648154   36.088204
 0.50000    0.306079   52.800756    0.796019
 0.001078   0.041107   51.153039
 0.75000    0.306079   82.622525    0.796019
 0.001078   0.624789   38.589037
 1.00000    0.306079   109.408648   0.796019
 0.001078   1.248862   14.028000

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.066021  -109.209305  -0.721537
-0.000570  -1.251773   -59.645601
 0.25000   -0.066021   -84.492260  -0.721537
-0.000570  -0.633276   -32.188828
 0.50000   -0.066021   -55.195296  -0.721537
-0.000570  -0.071863   -36.860376
 0.75000   -0.066021   -26.966601  -0.721537
-0.000570  -0.748142   -41.687760
 1.00000   -0.066021   -12.977966  -0.721537
-0.000570  -1.437011   -69.314010

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.235172   14.337614    0.844633
 0.000980   1.413244   12.009426
 0.25000    0.235172   18.408255    0.844633
 0.000980   0.683086   27.691357
 0.50000    0.235172   38.108522    0.844633
 0.000980   0.034170   38.544162
 0.75000    0.235172   59.605047    0.844633
 0.000980   0.638723   29.445819
 1.00000    0.235172   78.913378    0.844633
 0.000980   1.281569   11.896570

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.153095   -79.357343   -0.743060
-0.000836  -1.292405   -50.813138
 0.25000   -0.153095   -61.540473   -0.743060
-0.000836  -0.653570   -30.664142
 0.50000   -0.153095   -40.422245   -0.743060
-0.000836  -0.073510   -33.676236
 0.75000   -0.153095   -20.074060   -0.743060
-0.000836  -0.789435   -36.850804
 1.00000   -0.153095   -9.990586    -0.743060
-0.000836  -1.520595   -56.494227

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.231508   12.135749    0.769493
 0.001017   1.284169   10.993207
 0.25000    0.231508   15.513944    0.769493
 0.001017   0.618617   23.926118
 0.50000    0.231508   31.863051    0.769493
 0.001017   0.030907   32.889749
 0.75000    0.231508   49.702859    0.769493
 0.001017   0.565662   25.319026
 1.00000    0.231508   65.726700    0.769493
 0.001017   1.134770   10.755224
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4619

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.297607   -66.061035   -0.658185
-0.001060  -1.145456   -44.823135
 0.25000   -0.297607   -51.274945   -0.658185
-0.001060  -0.579487   -28.046571
 0.50000   -0.297607   -33.749083   -0.658185
-0.001060  -0.070306   -30.541710
 0.75000   -0.297607   -16.862274   -0.658185
-0.001060  -0.720470   -33.162265
 1.00000   -0.297607   -8.494073    -0.658185
-0.001060  -1.387231   -49.497807

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.211463   17.531913    0.575548
 0.001075   0.957490   17.175966
 0.25000    0.211463   37.473573    0.575548
 0.001075   0.462877   51.193855
 0.50000    0.211463   64.510935    0.575548
 0.001075   0.039922   66.618968
 0.75000    0.211463   87.215426    0.575548
 0.001075   0.420550   54.353744
 1.00000    0.211463   104.360048   0.575548
 0.001075   0.850615   15.859730

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.219279  -102.219185   -0.497202
-0.001275  -0.869881   -50.512145
 0.25000   -0.219279   -84.206068   -0.497202
-0.001275  -0.444149   -27.435987
 0.50000   -0.219279   -58.339527   -0.497202
-0.001275  -0.064822   -32.982488
 0.75000   -0.219279   -34.551606   -0.497202
-0.001275  -0.547296   -38.533010
 1.00000   -0.219279   -11.822029   -0.497202
-0.001275  -1.045193   -71.633505

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.312276   19.823774    0.844633
 0.001078   1.413244   14.319245
 0.25000    0.312276   25.470906    0.844633
 0.001078   0.683086   36.088204
 0.50000    0.312276   52.800756    0.844633
 0.001078   0.041107   51.153039
 0.75000    0.312276   82.622525    0.844633
 0.001078   0.638723   38.589037
 1.00000    0.312276   109.408648   0.844633
 0.001078   1.281569   14.028000

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.365263  -109.209305   -0.743060
-0.001168  -1.292405   -59.645601
 0.25000   -0.365263   -84.492260   -0.743060
-0.001168  -0.653570   -32.188828
 0.50000   -0.365263   -55.195296   -0.743060
-0.001168  -0.073510   -36.860376
 0.75000   -0.365263   -26.966601   -0.743060
-0.001168  -0.789435   -41.687760
 1.00000   -0.365263   -12.977966   -0.743060
-0.001168  -1.520595   -69.314010

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.312276   19.823774    0.844633
 0.001078   1.413244   17.175966
 0.25000    0.312276   37.473573    0.844633
 0.001078   0.683086   51.193855
 0.50000    0.312276   64.510935    0.844633
 0.001078   0.041107   66.618968
 0.75000    0.312276   87.215426    0.844633
 0.001078   0.638723   54.353744
 1.00000    0.312276   109.408648   0.844633
 0.001078   1.281569   15.859730
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4620

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.365263  -109.209305   -0.743060
-0.001275  -1.292405   -59.645601
 0.25000   -0.365263   -84.492260   -0.743060
-0.001275  -0.653570   -32.188828
 0.50000   -0.365263   -58.939527   -0.743060
-0.001275  -0.073510   -36.860376
 0.75000   -0.365263   -34.551606   -0.743060
-0.001275  -0.789435   -41.687760
 1.00000   -0.365263   -12.977966   -0.743060
-0.001275  -1.520595   -71.633505

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.312276   19.823774    0.844633
 0.001078   1.413244   17.175966
 0.25000    0.312276   37.473573    0.844633
 0.001078   0.683086   51.193855
 0.50000    0.312276   64.510935    0.844633
 0.001078   0.041107   66.618968
 0.75000    0.312276   87.215426    0.844633
 0.001078   0.638723   54.353744
 1.00000    0.312276   109.408648   0.844633
 0.001078   1.281569   15.859730

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.365263  -109.209305   -0.743060
-0.001275  -1.292405   -59.645601
 0.25000   -0.365263   -84.492260   -0.743060
-0.001275  -0.653570   -32.188828
 0.50000   -0.365263   -58.939527   -0.743060
-0.001275  -0.073510   -36.860376
 0.75000   -0.365263   -34.551606   -0.743060
-0.001275  -0.789435   -41.687760
 1.00000   -0.365263   -12.977966   -0.743060
-0.001275  -1.520595   -71.633505

ELEM      450 ================== LENGTH
=     4.943361

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.142143   0.129103    0.039506
 3.88E-07   0.090674   0.643912
 0.25000    0.142143   0.151126    0.039506
 3.88E-07   0.041842   0.701591
 0.50000    0.142143   0.182801    0.039506
 3.88E-07   0.002078   0.742252
 0.75000    0.142143   0.213331    0.039506
 3.88E-07   0.031172   0.743230
 1.00000    0.142143   0.244126    0.039506
 3.88E-07   0.060429   0.752859

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.180917   -0.335953   -0.023671
-0.000664  -0.056570   -1.519125
 0.25000   -0.180917   -0.299997   -0.023671
-0.000664  -0.027329   -1.574895
 0.50000   -0.180917   -0.272486   -0.023671
-0.000664  -0.007196   -1.694390
 0.75000   -0.180917   -0.239667   -0.023671
-0.000664  -0.055848   -1.817322
 1.00000   -0.180917   -0.214749   -0.023671
-0.000664  -0.104687   -1.989356

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.199906   0.516936    0.077959
 3.88E-07   0.180533   1.626087
 0.25000    0.199906   1.133585    0.077959
 3.88E-07   0.084699   3.054187
 0.50000    0.199906   2.020487    0.077959
 3.88E-07   0.004993   3.907865
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4621

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.75000    0.199906   2.875330    0.077959
 3.88E-07   0.053055   3.538911
 1.00000    0.199906   3.737583    0.077959
 3.88E-07   0.102755   2.367004

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.263147   -4.227909   -0.040200
-0.001220  -0.095860   -5.260320
 0.25000   -0.263147   -3.221139   -0.040200
-0.001220  -0.046143   -3.801574
 0.50000   -0.263147   -2.450835   -0.040200
-0.001220  -0.013992   -4.070143
 0.75000   -0.263147   -1.537511   -0.040200
-0.001220  -0.108544   -4.402210
 1.00000   -0.263147   -0.834210   -0.040200
-0.001220  -0.204801   -6.027590

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.192039   0.212401    0.138385
 3.49E-07   0.326537   1.709421
 0.25000    0.192039   0.232221    0.138385
 3.49E-07   0.155481   2.011977
 0.50000    0.192039   0.260729    0.138385
 3.49E-07   0.007432   2.510647
 0.75000    0.192039   0.288206    0.138385
 3.49E-07   0.076747   3.256685
 1.00000    0.192039   0.315921    0.138385
 3.49E-07   0.158100   4.307674

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.234277   -1.304583   -0.065845
-0.001477  -0.167339   -5.231879
 0.25000   -0.234277   -1.272222   -0.065845
-0.001477  -0.085855   -5.254926
 0.50000   -0.234277   -1.247462   -0.065845
-0.001477  -0.017318   -5.337247
 0.75000   -0.234277   -1.218105   -0.065845
-0.001477  -0.186555   -5.423093
 1.00000   -0.234277   -1.195499   -0.065845
-0.001477  -0.357524   -5.553675

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.240120   6.830153    0.225213
 0.000400   0.525438   10.794785
 0.25000    0.240120   18.507945   0.225213
 0.000400   0.258227   38.175776
 0.50000    0.240120   35.303659   0.225213
 0.000400   0.030244   54.564143
 0.75000    0.240120   51.492245   0.225213
 0.000400   0.155867   44.001397
 1.00000    0.240120   67.821160   0.225213
 0.000400   0.319416   12.577557

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.261221   -69.476584   -0.132341
-0.001235  -0.334769   -45.900136
 0.25000   -0.261221   -50.410874   -0.132341
-0.001235  -0.171117   -15.944019
 0.50000   -0.261221   -35.823244   -0.132341
-0.001235  -0.038544   -18.764865
 0.75000   -0.261221   -18.527167   -0.132341
-0.001235  -0.309681   -22.516981
 1.00000   -0.261221   -5.208407    -0.132341
-0.001235  -0.587944   -50.832172

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.043329   0.075715    0.053120
 4.27E-06   0.126154   0.662616
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4622

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.25000    0.043329   0.097738    0.053120
 4.27E-06   0.060520   0.717043
 0.50000    0.043329   0.129413    0.053120
 4.27E-06   0.002820   0.911162
 0.75000    0.043329   0.159944    0.053120
 4.27E-06   0.029263   1.309834
 1.00000    0.043329   0.190738    0.053120
 4.27E-06   0.056565   1.854069

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.062737   -0.680803   -0.022091
-0.000608  -0.052508   -2.346435
 0.25000   -0.062737   -0.644847   -0.022091
-0.000608  -0.026721   -2.275329
 0.50000   -0.062737   -0.617336   -0.022091
-0.000608  -0.006862   -2.267196
 0.75000   -0.062737   -0.584717   -0.022091
-0.000608  -0.070793   -2.261980
 1.00000   -0.062737   -0.559599   -0.022091
-0.000608  -0.136434   -2.303432

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.078509   9.043998    0.155606
 3.88E-07   0.355080   12.959868
 0.25000    0.078509   25.032827   0.155606
 3.88E-07   0.178041   50.392297
 0.50000    0.078509   48.028939   0.155606
 3.88E-07   0.036566   72.587179
 0.75000    0.078509   70.193793   0.155606
 3.88E-07   0.082663   57.670997
 1.00000    0.078509   92.550779   0.155606
 3.88E-07   0.174732   13.951846

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.071154   -94.203287   -0.074501
-0.000847  -0.193558   -58.926646
 0.25000   -0.071154   -68.099114   -0.074501
-0.000847  -0.101336   -17.822704
 0.50000   -0.071154   -48.126234   -0.074501
-0.000847  -0.038665   -21.594091
 0.75000   -0.071154   -24.445042   -0.074501
-0.000847  -0.201847   -26.538562
 1.00000   -0.071154   -6.209456    -0.074501
-0.000847  -0.414133   -65.312119

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.171026   8.232746    0.172171
 3.49E-07   0.393571   12.201087
 0.25000    0.171026   22.682155   0.172171
 3.49E-07   0.194631   46.038373
 0.50000    0.171026   43.464178   0.172171
 3.49E-07   0.034630   66.108625
 0.75000    0.171026   63.494978   0.172171
 3.49E-07   0.095132   52.624163
 1.00000    0.171026   83.699412   0.172171
 3.49E-07   0.197314   13.213855

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.189800   -85.311639   -0.082618
-0.001290  -0.211013   -54.534059
 0.25000   -0.189800   -61.720857   -0.082618
-0.001290  -0.108779   -17.457532
 0.50000   -0.189800   -43.670986   -0.082618
-0.001290  -0.040690   -20.936808
 0.75000   -0.189800   -22.269842   -0.082618
-0.001290  -0.244843   -25.566705
 1.00000   -0.189800   -5.789996    -0.082618
-0.001290  -0.457569   -60.588082
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4623

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.235237   5.545991    0.264235
 0.000694   0.624349   9.148496
 0.25000    0.235237   15.026970   0.264235
 0.000694   0.306967   31.538327
 0.50000    0.235237   28.663094   0.264235
 0.000694   0.026035   45.084278
 0.75000    0.235237   41.806303   0.264235
 0.000694   0.194980   36.851178
 1.00000    0.235237   55.063442   0.264235
 0.000694   0.399134   11.829008

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.239634   -56.848496   -0.165150
-0.001080  -0.417185   -38.992416
 0.25000   -0.239634   -41.369404   -0.165150
-0.001080  -0.213005   -14.622332
 0.50000   -0.239634   -29.525982   -0.165150
-0.001080  -0.035594   -16.863541
 0.75000   -0.239634   -15.483622   -0.165150
-0.001080  -0.355396   -19.859774
 1.00000   -0.239634   -4.670371    -0.165150
-0.001080  -0.681908   -42.797724

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.146054   0.095433    0.203230
 0.001145   0.494997   0.837858
 0.25000    0.146054   0.117456    0.203230
 0.001145   0.243879   0.985813
 0.50000    0.146054   0.149131    0.203230
 0.001145   0.002624   1.510874
 0.75000    0.146054   0.179661    0.203230
 0.001145   0.193275   2.187813
 1.00000    0.146054   0.210456    0.203230
 0.001145   0.391387   2.915686

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.122944   -0.902790   -0.160332
-1.15E-05  -0.401221   -3.456527
 0.25000   -0.122944   -0.868834   -0.160332
-1.15E-05  -0.203076   -3.331525
 0.50000   -0.122944   -0.839323   -0.160332
-1.15E-05  -0.009213   -3.268333
 0.75000   -0.122944   -0.806704   -0.160332
-1.15E-05  -0.258901   -3.206902
 1.00000   -0.122944   -0.781587   -0.160332
-1.15E-05  -0.510038   -3.191806

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.217967   11.068431   0.313617
 0.001266   0.739702   15.825379
 0.25000    0.217967   30.536923   0.313617
 0.001266   0.370865   61.345337
 0.50000    0.217967   58.537698   0.313617
 0.001266   0.041817   88.376269
 0.75000    0.217967   85.526309   0.313617
 0.001266   0.278176   70.166106
 1.00000    0.217967   112.748865  0.313617
 0.001266   0.554169   16.748675

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.172750  -114.617071   -0.228190
-0.000124  -0.573929   -71.592813
 0.25000   -0.172750   -82.831898   -0.228190
-0.000124  -0.291894   -21.505621
 0.50000   -0.172750   -58.512304   -0.228190
-0.000124  -0.046333   -26.057194
 0.75000   -0.172750   -29.677254   -0.228190
-0.000124  -0.423366   -32.158709
 1.00000   -0.172750   -7.473141    -0.228190
-0.000124  -0.610807   -79.206064
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4624

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.202376   7.624768    0.332230
 0.001152   0.789451   11.535616
 0.25000    0.202376   20.984029   0.332230
 0.001152   0.391772   43.103169
 0.50000    0.202376   40.198136   0.332230
 0.001152   0.033046   62.194964
 0.75000    0.202376   58.717696   0.332230
 0.001152   0.261236   50.457131
 1.00000    0.202376   77.397789   0.332230
 0.001152   0.536620   14.675876

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.165670   -79.470855   -0.222840
-0.000582  -0.565114   -52.473944
 0.25000   -0.165670   -57.659898   -0.222840
-0.000582  -0.289606   -18.053351
 0.50000   -0.165670   -40.971814   -0.222840
-0.000582  -0.040643   -21.127310
 0.75000   -0.165670   -21.185297   -0.222840
-0.000582  -0.338585   -24.644844
 1.00000   -0.165670   -5.948787    -0.222840
-0.000582  -0.853025   -57.500586

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.236555   6.350271    0.305681
 0.000960   0.725158   10.001191
 0.25000    0.236555   17.400402   0.305681
 0.000960   0.358096   36.118390
 0.50000    0.236555   33.293376   0.305681
 0.000960   0.028710   51.912928
 0.75000    0.236555   48.611855   0.305681
 0.000960   0.236369   42.262551
 1.00000    0.236555   64.063119   0.305681
 0.000960   0.483090   12.923984

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.226492   -65.999093   -0.199615
-0.000950  -0.503672   -44.701831
 0.25000   -0.226492   -47.958131   -0.199615
-0.000950  -0.256871   -16.264944
 0.50000   -0.226492   -34.154560   -0.199615
-0.000950  -0.038665   -18.842211
 0.75000   -0.226492   -17.788116   -0.199615
-0.000950  -0.408477   -22.299438
 1.00000   -0.226492   -5.185217    -0.199615
-0.000950  -0.786137   -48.998544

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.307147   0.214707    0.061319
 2.40E-07   0.141170   1.308555
 0.25000    0.307147   0.221588    0.061319
 2.40E-07   0.064753   1.304986
 0.50000    0.307147   0.240861    0.061319
 2.40E-07   0.004343   1.324549
 0.75000    0.307147   0.262392    0.061319
 2.40E-07   0.050624   1.353100
 1.00000    0.307147   0.281449    0.061319
 2.40E-07   0.098620   1.415891

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.224204   -0.347308   -0.038539
-0.000674  -0.091924   -2.662267
 0.25000   -0.224204   -0.329701   -0.038539
-0.000674  -0.044229   -2.547778
 0.50000   -0.224204   -0.308498   -0.038539
-0.000674  -0.010919   -2.502103
 0.75000   -0.224204   -0.288527   -0.038539
-0.000674  -0.084120   -2.494768
 1.00000   -0.224204   -0.272340   -0.038539
-0.000674  -0.160788   -2.547212
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                4625
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.364645	0.528371	0.128437
2.40E-07	0.298586	2.571493	
0.25000	0.364645	0.727933	0.128437
2.40E-07	0.138616	3.147485	
0.50000	0.364645	1.286850	0.128437
2.40E-07	0.008496	3.636549	
0.75000	0.364645	1.911232	0.128437
2.40E-07	0.085105	3.519620	
1.00000	0.364645	2.463885	0.128437
2.40E-07	0.165715	3.159302	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.408572	-2.915585	-0.065112
-0.001225	-0.156261	-7.322825	
0.25000	-0.408572	-2.404972	-0.065112
-0.001225	-0.075510	-5.974146	
0.50000	-0.408572	-1.790088	-0.065112
-0.001225	-0.021548	-5.682688	
0.75000	-0.408572	-1.210936	-0.065112
-0.001225	-0.174175	-5.550288	
1.00000	-0.408572	-0.883613	-0.065112
-0.001225	-0.334588	-6.180740	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.349200	0.369373	0.216701
6.92E-06	0.513004	3.788777	
0.25000	0.349200	0.375566	0.216701
6.92E-06	0.243000	3.740795	
0.50000	0.349200	0.392912	0.216701
6.92E-06	0.012688	3.939095	
0.75000	0.349200	0.412289	0.216701
6.92E-06	0.146649	4.490218	
1.00000	0.349200	0.429440	0.216701
6.92E-06	0.295399	5.254243	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.350744	-1.480455	-0.120085
-0.001401	-0.298511	-10.676819	
0.25000	-0.350744	-1.464608	-0.120085
-0.001401	-0.149787	-9.625358	
0.50000	-0.350744	-1.445526	-0.120085
-0.001401	-0.030393	-8.809962	
0.75000	-0.350744	-1.427552	-0.120085
-0.001401	-0.285860	-8.173936	
1.00000	-0.350744	-1.417394	-0.120085
-0.001401	-0.555862	-7.707321	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.422333	6.036805	0.329578
0.000389	0.783266	9.544812	
0.25000	0.422333	10.852101	0.329578
0.000389	0.382163	24.665025	
0.50000	0.422333	24.338365	0.329578
0.000389	0.031822	35.870042	
0.75000	0.422333	39.404289	0.329578
0.000389	0.269126	27.667273	
1.00000	0.422333	52.739417	0.329578
0.000389	0.534226	10.766043	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.353507	-53.959129	-0.217739
-0.001161	-0.543862	-39.734288	
0.25000	-0.353507	-41.638381	-0.217739
-0.001161	-0.275655	-18.003826	
0.50000	-0.353507	-26.801665	-0.217739
-0.001161	-0.047179	-19.176622	
0.75000	-0.353507	-12.827116	-0.217739
-0.001161	-0.436588	-21.001356	
1.00000	-0.353507	-4.929038	-0.217739
-0.001161	-0.844947	-39.588290	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4626

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.044623	0.114268	0.086700
2.40E-06	0.206020	1.312822	
0.25000	0.044623	0.121150	0.086700
2.40E-06	0.098042	1.317360	
0.50000	0.044623	0.140422	0.086700
2.40E-06	0.004735	1.457160	
0.75000	0.044623	0.161953	0.086700
2.40E-06	0.047087	1.716676	
1.00000	0.044623	0.181010	0.086700
2.40E-06	0.094343	2.052982	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.168121	-0.727698	-0.038204
-0.000572	-0.094328	-4.733704	
0.25000	-0.168121	-0.710090	-0.038204
-0.000572	-0.047415	-4.149889	
0.50000	-0.168121	-0.688887	-0.038204
-0.000572	-0.012327	-3.705055	
0.75000	-0.168121	-0.668917	-0.038204
-0.000572	-0.113940	-3.365574	
1.00000	-0.168121	-0.657630	-0.038204
-0.000572	-0.221842	-3.101651	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.120589	8.639665	0.224867
2.40E-07	0.530247	10.474240	
0.25000	0.120589	15.968411	0.224867
2.40E-07	0.261794	33.778439	
0.50000	0.120589	36.494129	0.224867
2.40E-07	0.037375	50.778631	
0.75000	0.120589	59.424045	0.224867
2.40E-07	0.161804	37.750347	
1.00000	0.120589	79.719739	0.224867
2.40E-07	0.316888	11.254393	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.141045	-80.730274	-0.130889
-0.000738	-0.332509	-50.663736	
0.25000	-0.141045	-61.978439	-0.130889
-0.000738	-0.172431	-18.473814	
0.50000	-0.141045	-39.397371	-0.130889
-0.000738	-0.043682	-20.935891	
0.75000	-0.141045	-18.128497	-0.130889
-0.000738	-0.304564	-24.265844	
1.00000	-0.141045	-6.107842	-0.130889
-0.000738	-0.582071	-52.955165	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.276624	7.938248	0.255206
2.16E-07	0.598989	10.443394	
0.25000	0.276624	14.571280	0.255206
2.16E-07	0.293330	31.490735	
0.50000	0.276624	33.148501	0.255206
2.16E-07	0.037133	46.940413	
0.75000	0.276624	53.901689	0.255206
2.16E-07	0.179835	35.188814	
1.00000	0.276624	72.270722	0.255206
2.16E-07	0.351372	11.333539	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.302026	-73.315736	-0.143522
-0.001186	-0.360152	-48.333930	
0.25000	-0.302026	-56.344005	-0.143522
-0.001186	-0.184053	-19.118456	
0.50000	-0.302026	-35.906548	-0.143522
-0.001186	-0.048468	-21.303893	
0.75000	-0.302026	-16.656719	-0.143522
-0.001186	-0.346727	-24.303048	
1.00000	-0.302026	-5.777180	-0.143522
-0.001186	-0.662396	-50.284876	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4627

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.351376	5.017060	0.386323
0.000679	0.924506	8.770939	
0.25000	0.351376	9.016904	0.386323
0.000679	0.451934	21.336855	
0.50000	0.351376	20.219321	0.386323
0.000679	0.028882	30.758249	
0.75000	0.351376	32.733888	0.386323
0.000679	0.323645	24.147928	
1.00000	0.351376	43.810763	0.386323
0.000679	0.646151	10.405334	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.336366	-45.274669	-0.263906
-0.000995	-0.659591	-36.470845	
0.25000	-0.336366	-35.040393	-0.263906
-0.000995	-0.334282	-18.046223	
0.50000	-0.336366	-22.716218	-0.263906
-0.000995	-0.046183	-18.715491	
0.75000	-0.336366	-11.108200	-0.263906
-0.000995	-0.505479	-19.967989	
1.00000	-0.336366	-4.547637	-0.263906
-0.000995	-0.983838	-35.190878	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.180073	0.122287	0.289381
0.001190	0.705768	1.823111	
0.25000	0.180073	0.129168	0.289381
0.001190	0.347097	1.909103	
0.50000	0.180073	0.148441	0.289381
0.001190	0.004689	2.129703	
0.75000	0.180073	0.169972	0.289381
0.001190	0.289721	2.498850	
1.00000	0.180073	0.189029	0.289381
0.001190	0.583529	2.973630	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.161007	-0.977397	-0.237848
-9.26E-06	-0.592164	-7.003340	
0.25000	-0.161007	-0.959789	-0.237848
-9.26E-06	-0.298303	-6.202991	
0.50000	-0.161007	-0.938586	-0.237848
-9.26E-06	-0.015158	-5.551746	
0.75000	-0.161007	-0.918616	-0.237848
-9.26E-06	-0.366082	-4.997096	
1.00000	-0.161007	-0.907329	-0.237848
-9.26E-06	-0.724078	-4.556923	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.322726	12.262704	0.440105
0.001282	1.056818	14.010304	
0.25000	0.322726	22.667459	0.440105
0.001282	0.529727	47.008965	
0.50000	0.322726	51.808197	0.440105
0.001282	0.047411	71.105766	
0.75000	0.322726	84.362218	0.440105
0.001282	0.431316	52.421363	
1.00000	0.322726	113.176387	0.440105
0.001282	0.851387	14.554471	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.200670	-114.230870	-0.347505
-8.49E-05	-0.869564	-69.348046	
0.25000	-0.200670	-87.608547	-0.347505
-8.49E-05	-0.442427	-24.005536	
0.50000	-0.200670	-55.549790	-0.347505
-8.49E-05	-0.053036	-27.781425	
0.75000	-0.200670	-25.353981	-0.347505
-8.49E-05	-0.578436	-32.694905	
1.00000	-0.200670	-8.288037	-0.347505
-8.49E-05	-1.120839	-73.549640	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4628

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.274612	8.896163	0.473774
0.001143	1.139769	11.886168	
0.25000	0.274612	16.396257	0.473774
0.001143	0.565327	35.769534	
0.50000	0.274612	37.401873	0.473774
0.001143	0.040851	53.385805	
0.75000	0.274612	60.867897	0.473774
0.001143	0.428111	40.294035	
1.00000	0.274612	81.638110	0.473774
0.001143	0.853445	13.499252	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.215846	-83.206342	-0.349654
-0.000464	-0.877576	-56.539558	
0.25000	-0.215846	-64.016654	-0.349654
-0.000464	-0.447245	-23.101180	
0.50000	-0.215846	-40.907063	-0.349654
-0.000464	-0.053649	-25.188785	
0.75000	-0.215846	-19.140917	-0.349654
-0.000464	-0.617589	-28.197121	
1.00000	-0.215846	-6.839216	-0.349654
-0.000464	-1.202743	-57.224128	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.325523	7.468114	0.444558
0.000952	1.065541	10.748712	
0.25000	0.325523	13.692387	0.444558
0.000952	0.524691	30.531482	
0.50000	0.325523	31.124793	0.444558
0.000952	0.036613	45.163063	
0.75000	0.325523	50.599073	0.444558
0.000952	0.384302	34.403694	
1.00000	0.325523	67.836121	0.444558
0.000952	0.764706	12.352079	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.345421	-69.364274	-0.312211
-0.000854	-0.780796	-49.544628	
0.25000	-0.345421	-53.438420	-0.312211
-0.000854	-0.396310	-21.574040	
0.50000	-0.345421	-34.260413	-0.312211
-0.000854	-0.052781	-23.143397	
0.75000	-0.345421	-16.196848	-0.312211
-0.000854	-0.582344	-25.537723	
1.00000	-0.345421	-5.987757	-0.312211
-0.000854	-1.132025	-49.579034	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.240120	11.068431	0.332230
0.001266	0.789451	15.825379	
0.25000	0.240120	30.536923	0.332230
0.001266	0.391772	61.345337	
0.50000	0.240120	58.537698	0.332230
0.001266	0.041817	88.376269	
0.75000	0.240120	85.526309	0.332230
0.001266	0.272176	70.168106	
1.00000	0.240120	112.748865	0.332230
0.001266	0.554169	16.748675	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.263147	-114.617071	-0.228190
-0.001477	-0.873929	-71.592813	
0.25000	-0.263147	-82.831898	-0.228190
-0.001477	-0.291894	-21.505621	
0.50000	-0.263147	-58.512304	-0.228190
-0.001477	-0.046333	-26.057194	
0.75000	-0.263147	-29.677354	-0.228190
-0.001477	-0.442585	-32.158709	
1.00000	-0.263147	-7.473189	-0.228190
-0.001477	-0.853025	-79.206064	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4629

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.422333	12.262704	0.473774
0.001282	1.139769	14.010304	
0.25000	0.422333	22.667459	0.473774
0.001282	0.565327	47.008965	
0.50000	0.422333	51.808197	0.473774
0.001282	0.047411	71.105766	
0.75000	0.422333	84.362218	0.473774
0.001282	0.431316	52.421363	
1.00000	0.422333	113.176387	0.473774
0.001282	0.853445	14.554471	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.408572	-114.230870	-0.349654
-0.001401	-0.877576	-69.348046	
0.25000	-0.408572	-87.608547	-0.349654
-0.001401	-0.447245	-24.005536	
0.50000	-0.408572	-55.549790	-0.349654
-0.001401	-0.053649	-27.781425	
0.75000	-0.408572	-25.353980	-0.349654
-0.001401	-0.617589	-32.694905	
1.00000	-0.408572	-8.288037	-0.349654
-0.001401	-1.202743	-73.549640	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.422333	12.262704	0.473774
0.001282	1.139769	15.825379	
0.25000	0.422333	30.536923	0.473774
0.001282	0.565327	61.345337	
0.50000	0.422333	58.537698	0.473774
0.001282	0.047411	88.376269	
0.75000	0.422333	85.526309	0.473774
0.001282	0.431316	70.168106	
1.00000	0.422333	113.176387	0.473774
0.001282	0.853445	16.748675	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.408572	-114.617071	-0.349654
-0.001477	-0.877576	-71.592813	
0.25000	-0.408572	-87.608547	-0.349654
-0.001477	-0.447245	-24.005536	
0.50000	-0.408572	-58.512304	-0.349654
-0.001477	-0.053649	-27.781425	
0.75000	-0.408572	-29.677354	-0.349654
-0.001477	-0.617589	-32.694905	
1.00000	-0.408572	-8.288037	-0.349654
-0.001477	-1.202743	-79.206064	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.422333	12.262704	0.473774
0.001282	1.139769	15.825379	
0.25000	0.422333	30.536923	0.473774
0.001282	0.565327	61.345337	
0.50000	0.422333	58.537698	0.473774
0.001282	0.047411	88.376269	
0.75000	0.422333	85.526309	0.473774
0.001282	0.431316	70.168106	
1.00000	0.422333	113.176387	0.473774
0.001282	0.853445	16.748675	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.408572	-114.617071	-0.349654
-0.001477	-0.877576	-71.592813	
0.25000	-0.408572	-87.608547	-0.349654
-0.001477	-0.447245	-24.005536	
0.50000	-0.408572	-58.512304	-0.349654
-0.001477	-0.053649	-27.781425	
0.75000	-0.408572	-29.677354	-0.349654
-0.001477	-0.617589	-32.694905	
1.00000	-0.408572	-8.288037	-0.349654
-0.001477	-1.202743	-79.206064	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4630

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 451 ========== LENGTH = 4.942856

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.201325	0.094132	0.060173
4.79E-07	0.141973	0.760394	
0.25000	0.201325	0.118081	0.060173
4.79E-07	0.067678	1.019273	
0.50000	0.201325	0.149849	0.060173
4.79E-07	0.004390	1.274999	
0.75000	0.201325	0.179677	0.060173
4.79E-07	0.044382	1.504254	
1.00000	0.201325	0.210823	0.060173
4.79E-07	0.084761	1.712509	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.211340	-0.377294	-0.032664
-0.000698	-0.076739	-2.002455	
0.25000	-0.211340	-0.345755	-0.032664
-0.000698	-0.036449	-1.925443	
0.50000	-0.211340	-0.315981	-0.032664
-0.000698	-0.006685	-1.903893	
0.75000	-0.211340	-0.284147	-0.032664
-0.000698	-0.081114	-1.883115	
1.00000	-0.211340	-0.259911	-0.032664
-0.000698	-0.155480	-1.917068	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.311459	0.496420	0.107164
2.28E-06	0.255646	2.376057	
0.25000	0.311459	1.166986	0.107164
2.28E-06	0.123701	4.227160	
0.50000	0.311459	2.056494	0.107164
2.28E-06	0.011263	5.406174	
0.75000	0.311459	2.891687	0.107164
2.28E-06	0.075195	5.298526	
1.00000	0.311459	3.763785	0.107164
2.28E-06	0.141680	4.232407	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.301040	-4.207073	-0.053822
-0.001257	-0.126685	-6.046847	
0.25000	-0.301040	-3.323976	-0.053822
-0.001257	-0.060868	-4.444132	
0.50000	-0.301040	-2.490293	-0.053822
-0.001257	-0.012936	-4.379915	
0.75000	-0.301040	-1.598940	-0.053822
-0.001257	-0.142402	-4.332457	
1.00000	-0.301040	-0.920331	-0.053822
-0.001257	-0.274805	-5.785406	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.305524	0.288043	0.167859
4.45E-07	0.408559	4.312589	
0.25000	0.305524	0.309597	0.167859
4.45E-07	0.201236	4.714378	
0.50000	0.305524	0.338188	0.167859
4.45E-07	0.017946	5.318685	
0.75000	0.305524	0.365034	0.167859
4.45E-07	0.095044	6.198269	
1.00000	0.305524	0.393066	0.167859
4.45E-07	0.183494	7.232709	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267078	-1.192689	-0.071529
-0.001456	-0.170825	-5.562951	
0.25000	-0.267078	-1.164304	-0.071529
-0.001456	-0.082791	-5.357201	
0.50000	-0.267078	-1.137507	-0.071529
-0.001456	-0.016509	-5.201058	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4631

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.267078	-1.108856	-0.071529
-0.001456	-0.213892	-5.045788	
1.00000	-0.267078	-1.087044	-0.071529
-0.001456	-0.421245	-4.939918	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.333400	6.542669	0.252666
0.000461	0.619864	12.559148	
0.25000	0.333400	19.241503	0.252666
0.000461	0.316524	44.001182	
0.50000	0.333400	36.086565	0.252666
0.000461	0.047490	59.563661	
0.75000	0.333400	51.903034	0.252666
0.000461	0.157884	47.745234	
1.00000	0.333400	68.418386	0.252666
0.000461	0.315862	16.017066	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.324616	-69.509987	-0.127802
-0.001208	-0.316486	-50.839272	
0.25000	-0.324616	-52.786338	-0.127802
-0.001208	-0.160697	-21.617133	
0.50000	-0.324616	-36.998461	-0.127802
-0.001208	-0.042083	-21.518772	
0.75000	-0.324616	-20.118474	-0.127802
-0.001208	-0.329188	-24.766422	
1.00000	-0.324616	-7.267314	-0.127802
-0.001208	-0.641303	-50.386793	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.093910	0.110714	0.059216
4.78E-06	0.146038	1.854984	
0.25000	0.093910	0.134663	0.059216
4.78E-06	0.072914	2.012500	
0.50000	0.093910	0.166431	0.059216
4.78E-06	0.008093	2.265906	
0.75000	0.093910	0.196260	0.059216
4.78E-06	0.033616	2.627938	
1.00000	0.093910	0.227406	0.059216
4.78E-06	0.064936	3.029454	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.071536	-0.585145	-0.025341
-0.000589	-0.061251	-2.305590	
0.25000	-0.071536	-0.553606	-0.025341
-0.000589	-0.030436	-2.175780	
0.50000	-0.071536	-0.523831	-0.025341
-0.000589	-0.006219	-2.100973	
0.75000	-0.071536	-0.491997	-0.025341
-0.000589	-0.073668	-2.026882	
1.00000	-0.071536	-0.467761	-0.025341
-0.000589	-0.146837	-2.006408	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.133574	8.644809	0.166789
4.86E-05	0.410783	13.942532	
0.25000	0.133574	26.031614	0.166789
4.86E-05	0.216623	56.649441	

0.50000	0.133574	49.095292	0.166789
4.86E-05	0.051248	77.472791	
0.75000	0.133574	70.750654	0.166789
4.86E-05	0.079639	60.605488	
1.00000	0.133574	93.362905	0.166789
4.86E-05	0.159708	16.335768	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.089120	-94.273470	-0.064759
-0.000774	-0.161164	-65.313865	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.089120	-71.376028	-0.064759
-0.000774	-0.084071	-25.440488	
0.50000	-0.089120	-49.759811	-0.064759
-0.000774	-0.044131	-25.428473	
0.75000	-0.089120	-26.648315	-0.064759
-0.000774	-0.224149	-25.889878	
1.00000	-0.089120	-9.052950	-0.064759
-0.000774	-0.430145	-65.196855	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.270975	7.872714	0.197186
4.39E-05	0.481072	13.210349	
0.25000	0.270975	23.585500	0.197186
4.39E-05	0.248204	51.999206	
0.50000	0.270975	44.428584	0.197186
4.39E-05	0.050163	71.014309	
0.75000	0.270975	63.998947	0.197186
4.39E-05	0.103423	55.971548	
1.00000	0.270975	84.434068	0.197186
4.39E-05	0.203631	16.173789	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.215951	-85.397279	-0.081052
-0.001251	-0.197483	-60.599582	
0.25000	-0.215951	-64.704425	-0.081052
-0.001251	-0.099865	-24.540466	
0.50000	-0.215951	-45.169439	-0.081052
-0.001251	-0.045077	-24.504821	
0.75000	-0.215951	-24.283141	-0.081052
-0.001251	-0.264938	-24.897570	
1.00000	-0.215951	-8.381875	-0.081052
-0.001251	-0.508515	-60.396330	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.313401	5.379011	0.285752
0.000755	0.705931	11.795750	
0.25000	0.313401	15.688956	0.285752
0.000755	0.360003	37.416324	
0.50000	0.313401	29.365145	0.285752
0.000755	0.045006	50.227422	
0.75000	0.313401	42.206238	0.285752
0.000755	0.188755	40.910825	
1.00000	0.313401	55.614742	0.285752
0.000755	0.380261	15.516378	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.308633	-56.811081	-0.154944
-0.001047	-0.386057	-42.778951	
0.25000	-0.308633	-43.233466	-0.154944
-0.001047	-0.196340	-18.986484	
0.50000	-0.308633	-30.415585	-0.154944
-0.001047	-0.038288	-18.830815	
0.75000	-0.308633	-16.711041	-0.154944
-0.001047	-0.363881	-18.956336	
1.00000	-0.308633	-6.277426	-0.154944
-0.001047	-0.716774	-42.116759	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.138000	0.109796	0.204161
0.001167	0.511897	2.865470	
0.25000	0.138000	0.133745	0.204161
0.001167	0.259889	3.164730	
0.50000	0.138000	0.165513	0.204161
0.001167	0.012376	3.572837	
0.75000	0.138000	0.195341	0.204161
0.001167	0.173467	4.124475	
1.00000	0.138000	0.226488	0.204161
0.001167	0.355455	4.739305	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.201294	-0.822704	-0.147307
-7.28E-06	-0.372719	-3.148170	
0.25000	-0.201294	-0.791165	-0.147307
-7.28E-06	-0.190695	-2.944459	
0.50000	-0.201294	-0.761390	-0.147307
-7.28E-06	-0.008899	-2.795654	
0.75000	-0.201294	-0.729556	-0.147307
-7.28E-06	-0.245489	-2.647512	
1.00000	-0.201294	-0.705320	-0.147307
-7.28E-06	-0.497715	-2.552885	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.213736	10.507625	0.319417
0.001411	0.795065	16.681948	
0.25000	0.213736	31.678335	0.319417
0.001411	0.115067	68.788390	
0.50000	0.213736	59.761381	0.319417
0.001411	0.062152	94.188709	
0.75000	0.213736	86.129618	0.319417
0.001411	0.236613	73.607791	
1.00000	0.213736	113.662993	0.319417
0.001411	0.487942	19.625834	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.276805	-114.777089	-0.203403
-9.14E-05	-0.517619	-79.161873	
0.25000	-0.276805	-86.896457	-0.203403
-9.14E-05	-0.269344	-30.582592	
0.50000	-0.276805	-60.575884	-0.203403
-9.14E-05	-0.053153	-30.539736	
0.75000	-0.276805	-32.434614	-0.203403
-9.14E-05	-0.409628	-31.073509	
1.00000	-0.276805	-11.009955	-0.203403
-9.14E-05	-0.804040	-78.906799	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.226477	7.321790	0.340606
0.001221	0.849006	14.616200	
0.25000	0.226477	21.849113	0.340606
0.001221	0.438314	50.554380	
0.50000	0.226477	41.119673	0.340606
0.001221	0.055105	68.322311	
0.75000	0.226477	59.213534	0.340606
0.001221	0.236356	54.765293	
1.00000	0.226477	78.106911	0.340606
0.001221	0.483505	18.423851	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.257458	-79.458237	-0.199973
-0.000513	-0.504948	-57.455299	
0.25000	-0.257458	-60.326573	-0.199973
-0.000513	-0.259909	-23.989793	
0.50000	-0.257458	-42.265419	-0.199973
-0.000513	-0.045212	-23.829937	
0.75000	-0.257458	-22.954905	-0.199973
-0.000513	-0.427988	-24.065640	
1.00000	-0.257458	-8.253324	-0.199973
-0.000513	-0.848492	-56.758286	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.301079	6.119228	0.322777
0.001018	0.800280	12.877059	
0.25000	0.301079	18.135522	0.322777
0.001018	0.450960	42.760596	
0.50000	0.301079	34.075192	0.322777
0.001018	0.049518	57.551510	
0.75000	0.301079	49.041553	0.322777
0.001018	0.222433	46.559005	
1.00000	0.301079	64.669235	0.322777
0.001018	0.450106	16.765713	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.308129	-65.968384	-0.184213
-0.000905	-0.461057	-48.967855	
0.25000	-0.308129	-50.143603	-0.184213
-0.000905	-0.235883	-21.254698	
0.50000	-0.308129	-35.204296	-0.184213
-0.000905	-0.041802	-21.090387	
0.75000	-0.308129	-19.231578	-0.184213
-0.000905	-0.406294	-21.253658	
1.00000	-0.308129	-7.071145	-0.184213
-0.000905	-0.806816	-48.263835	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.383740	0.134471	0.088903
2.87E-07	0.211020	1.427021	
0.25000	0.383740	0.142517	0.088903
2.87E-07	0.100736	1.584390	
0.50000	0.383740	0.161932	0.088903
2.87E-07	0.005724	1.783364	
0.75000	0.383740	0.183110	0.088903
2.87E-07	0.068046	2.012453	
1.00000	0.383740	0.201700	0.088903
2.87E-07	0.130049	2.332396	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.266779	-0.423276	-0.050207
-0.000714	-0.118831	-2.567321	
0.25000	-0.266779	-0.404780	-0.050207
-0.000714	-0.057082	-2.390853	
0.50000	-0.266779	-0.383623	-0.050207
-0.000714	-0.008608	-2.307956	
0.75000	-0.266779	-0.364148	-0.050207
-0.000714	-0.117648	-2.285796	
1.00000	-0.266779	-0.355696	-0.050207
-0.000714	-0.228012	-2.411142	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.500673	0.493481	0.169902
1.47E-06	0.407681	3.119916	
0.25000	0.500673	0.726821	0.169902
1.47E-06	0.196835	4.088912	
0.50000	0.500673	1.289857	0.169902
1.47E-06	0.013115	4.837791	
0.75000	0.500673	1.904036	0.169902
1.47E-06	0.114581	4.944286	
1.00000	0.500673	2.443146	0.169902
1.47E-06	0.218920	4.960442	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.452329	-2.967098	-0.084572
-0.001262	-0.200311	-6.218624	
0.25000	-0.452329	-2.431427	-0.084572
-0.001262	-0.096134	-5.030128	
0.50000	-0.452329	-1.817861	-0.084572
-0.001262	-0.015396	-4.797931	
0.75000	-0.452329	-1.253087	-0.084572
-0.001262	-0.220440	-4.693561	
1.00000	-0.452329	-1.008005	-0.084572
-0.001262	-0.431126	-5.636809	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.495092	0.464627	0.254522
7.85E-06	0.622474	5.266417	
0.25000	0.495092	0.471868	0.254522
7.85E-06	0.306484	5.456101	
0.50000	0.495092	0.489342	0.254522
7.85E-06	0.020571	5.896230	
0.75000	0.495092	0.508403	0.254522
7.85E-06	0.158650	6.683174	
1.00000	0.495092	0.525134	0.254522
7.85E-06	0.313426	7.861358	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.391402	-1.443589	-0.125119
0.001373	-0.306166	-7.753027	
0.25000	-0.391402	-1.426943	-0.125119
-0.001373	-0.151775	-7.026127	
0.50000	-0.391402	-1.407901	-0.125119
-0.001373	-0.021248	-6.503763	
0.75000	-0.391402	-1.390374	-0.125119
-0.001373	-0.318307	-6.165377	
1.00000	-0.391402	-1.382768	-0.125119
-0.001373	-0.633899	-6.271979	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.547235	5.964862	0.361781
0.000422	0.890303	10.761402	
0.25000	0.547235	11.595202	0.361781
0.000422	0.451440	28.359933	
0.50000	0.547235	25.180859	0.361781
0.000422	0.044506	39.102698	
0.75000	0.547235	40.000590	0.361781
0.000422	0.260679	30.301835	
1.00000	0.547235	53.008948	0.361781
0.000422	0.517289	14.193333	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.424035	-54.291643	-0.211300
-0.001139	-0.531962	-39.626391	
0.25000	-0.424035	-41.349386	-0.211300
-0.001139	-0.273634	-18.941684	
0.50000	-0.424035	-26.544442	-0.211300
-0.001139	-0.037942	-18.470285	
0.75000	-0.424035	-12.916838	-0.211300
-0.001139	-0.454776	-18.229098	
1.00000	-0.424035	-7.003192	-0.211300
-0.001139	-0.900897	-37.724989	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102459	0.193079	0.096330
2.49E-06	0.237239	2.055295	
0.25000	0.102459	0.201125	0.096330
2.49E-06	0.117429	2.186317	
0.50000	0.102459	0.220540	0.096330
2.49E-06	0.008801	2.379385	
0.75000	0.102459	0.241718	0.096330
2.49E-06	0.052863	2.652624	
1.00000	0.102459	0.260308	0.096330
2.49E-06	0.103052	3.081766	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.165896	-0.652648	-0.040817
-0.000531	-0.098697	-3.120952	
0.25000	-0.165896	-0.634152	-0.040817
-0.000531	-0.048714	-2.783048	
0.50000	-0.165896	-0.612995	-0.040817
-0.000531	-0.007641	-2.542718	
0.75000	-0.165896	-0.593520	-0.040817
-0.000531	-0.118866	-2.384666	
1.00000	-0.165896	-0.585069	-0.040817
-0.000531	-0.238363	-2.430390	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.195569	8.529036	0.235221
4.52E-05	0.581112	11.251613	
0.25000	0.195569	17.098257	0.235221
4.52E-05	0.303923	37.960980	
0.50000	0.195569	37.775247	0.235221
4.52E-05	0.048721	53.987894	
0.75000	0.195569	60.336665	0.235221
4.52E-05	0.143679	59.717582	
1.00000	0.195569	80.128823	0.235221
4.52E-05	0.281586	13.996426	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.153618	-81.210111	-0.117152
-0.000661	-0.303734	-52.985735	
0.25000	-0.153618	-61.512358	-0.117152
-0.000661	-0.162857	-22.163808	
0.50000	-0.153618	-38.979644	-0.117152
-0.000661	-0.036633	-21.935673	
0.75000	-0.153618	-18.238811	-0.117152
-0.000661	-0.299475	-21.897260	
1.00000	-0.153618	-9.238407	-0.117152
-0.000661	-0.587639	-51.548614	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.406946	7.808660	0.284958
4.09E-05	0.698088	11.338485	
0.25000	0.406946	15.564408	0.284958
4.09E-05	0.357672	35.626610	
0.50000	0.406946	34.278541	0.284958
4.09E-05	0.049147	50.291464	
0.75000	0.406946	54.692601	0.284958
4.09E-05	0.178113	37.577717	
1.00000	0.406946	72.612510	0.284958
4.09E-05	0.345975	14.583394	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.332141	-73.782522	-0.141211
-0.001157	-0.357836	-50.331477	
0.25000	-0.332141	-55.954667	-0.141211
-0.001157	-0.186960	-22.325489	
0.50000	-0.332141	-35.560975	-0.141211
-0.001157	-0.039671	-22.047864	
0.75000	-0.332141	-16.769061	-0.141211
-0.001157	-0.286552	-21.880270	
1.00000	-0.332141	-8.643061	-0.141211
-0.001157	-0.715478	-48.767861	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.457917	5.041369	0.410620
0.000714	1.016697	10.388691	
0.25000	0.457917	9.718232	0.410620
0.000714	0.515731	25.039901	
0.50000	0.457917	21.003210	0.410620
0.000714	0.014185	34.079643	
0.75000	0.457917	33.313276	0.410620
0.000714	0.305609	26.981419	
1.00000	0.457917	44.118718	0.410620
0.000714	0.612342	13.916012	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.410579	-45.496245	-0.251570
-0.000969	-0.634873	-35.222971	
0.25000	-0.410579	-34.745711	-0.251570
-0.000969	-0.326211	-17.809292	
0.50000	-0.410579	-22.447927	-0.251570
-0.000969	-0.036147	-17.213123	
0.75000	-0.410579	-11.128106	-0.251570
-0.000969	-0.508486	-16.760190	
1.00000	-0.410579	-6.215913	-0.251570
-0.000969	-1.015084	-32.872982	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.175904	0.193680	0.288722
0.001169	0.723216	2.938760	
0.25000	0.175904	0.201726	0.288722
0.001169	0.366279	3.115419	
0.50000	0.175904	0.221141	0.288722
0.001169	0.012869	3.403446	
0.75000	0.175904	0.242320	0.288722
0.001169	0.264241	3.836763	
1.00000	0.175904	0.260910	0.288722
0.001169	0.539645	4.449051	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.245070	-0.927415	-0.222904
-7.06E-06	-0.562320	-4.545778	
0.25000	-0.245070	-0.908919	-0.222904
-7.06E-06	-0.286925	-3.983299	
0.50000	-0.245070	-0.887761	-0.222904
-7.06E-06	-0.011255	-3.542936	
0.75000	-0.245070	-0.868287	-0.222904
-7.06E-06	-0.345911	-3.198526	
1.00000	-0.245070	-0.859835	-0.222904
-7.06E-06	-0.703122	-3.074615	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.329358	11.974412	0.441423
0.001355	1.098391	14.509548	
0.25000	0.329358	24.140291	0.441423
0.001355	0.573241	52.429723	
0.50000	0.329358	53.495793	0.441423
0.001355	0.064124	75.107339	
0.75000	0.329358	85.517849	0.441423
0.001355	0.382466	54.713644	
1.00000	0.329358	113.625940	0.441423
0.001355	0.767090	17.885941	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.311792	-115.004744	-0.319305
-6.94E-05	-0.819699	-73.545109	
0.25000	-0.311792	-87.039483	-0.319305
-6.94E-05	-0.430775	-29.942837	
0.50000	-0.311792	-55.049377	-0.319305
-6.94E-05	-0.047971	-29.703396	
0.75000	-0.311792	-25.603237	-0.319305
-6.94E-05	-0.550969	-29.645824	
1.00000	-0.311792	-12.825189	-0.319305
-6.94E-05	-1.092647	-71.577093	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.319064	8.821782	0.477988
0.001183	1.191452	13.460614	
0.25000	0.319064	17.591354	0.477988
0.001183	0.614814	40.907468	
0.50000	0.319064	38.751778	0.477988
0.001183	0.058590	57.504793	
0.75000	0.319064	61.834543	0.477988
0.001183	0.381346	43.183504	
1.00000	0.319064	82.095593	0.477988
0.001183	0.769041	17.264192	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.310925	-83.678085	-0.319440
-0.000399	-0.816309	-57.235640	
0.25000	-0.310925	-63.519792	-0.319440
-0.000399	-0.425572	-25.303782	
0.50000	-0.310925	-40.460256	-0.319440
-0.000399	-0.044993	-24.744912	
0.75000	-0.310925	-19.234499	-0.319440
-0.000399	-0.588566	-24.428903	
1.00000	-0.310925	-10.023662	-0.319440
-0.000399	-1.177061	-54.616313	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.416324	7.419691	0.462967
0.000986	1.148450	12.324539	
0.25000	0.416324	14.697494	0.462967
0.000986	0.587492	35.127107	
0.50000	0.416324	32.258374	0.462967
0.000986	0.053496	49.070947	
0.75000	0.416324	51.414426	0.462967
0.000986	0.356847	37.396811	
1.00000	0.416324	68.229087	0.462967
0.000986	0.715157	16.179693	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.431847	-69.750081	-0.294820
-0.000812	-0.747495	-49.603665	
0.25000	-0.431847	-53.020862	-0.294820
-0.000812	-0.386577	-22.967999	
0.50000	-0.431847	-33.883924	-0.294820
-0.000812	-0.042785	-22.404550	
0.75000	-0.431847	-16.268822	-0.294820
-0.000812	-0.573793	-22.092762	
1.00000	-0.431847	-8.624816	-0.294820
-0.000812	-1.144232	-47.174094	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.333400	10.507625	0.340606
0.001411	0.849006	16.681948	
0.25000	0.333400	31.678335	0.340606
0.001411	0.438314	68.788390	
0.50000	0.333400	59.761381	0.340606
0.001411	0.062152	94.188709	
0.75000	0.333400	86.129618	0.340606
0.001411	0.236613	73.607791	
1.00000	0.333400	113.662993	0.340606
0.001411	0.487942	19.625834	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.324616	-114.777089	-0.203403
-0.001456	-0.517619	-79.161873	
0.25000	-0.324616	-86.896457	-0.203403
-0.001456	-0.269344	-30.582592	
0.50000	-0.324616	-60.575884	-0.203403
-0.001456	-0.053153	-30.539736	
0.75000	-0.324616	-32.434614	-0.203403
-0.001456	-0.427988	-31.073509	
1.00000	-0.324616	-11.009955	-0.203403
-0.001456	-0.848492	-78.906799	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.547235	11.974412	0.477988
0.001355	1.191452	14.509548	
0.25000	0.547235	24.140291	0.477988
0.001355	0.614814	52.429723	
0.50000	0.547235	53.495793	0.477988
0.001355	0.064124	75.107339	
0.75000	0.547235	85.517849	0.477988
0.001355	0.382466	54.713644	
1.00000	0.547235	113.625940	0.477988
0.001355	0.769041	17.885941	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.452329	-115.004744	-0.319440
-0.001373	-0.819699	-73.545109	
0.25000	-0.452329	-87.039483	-0.319440
-0.001373	-0.430775	-29.942837	
0.50000	-0.452329	-55.049377	-0.319440
-0.001373	-0.047971	-29.703396	
0.75000	-0.452329	-25.603237	-0.319440
-0.001373	-0.588566	-29.645824	
1.00000	-0.452329	-12.825198	-0.319440
-0.001373	-1.177061	-71.577093	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.547235	11.974412	0.477988
0.001411	1.191452	16.681948	
0.25000	0.547235	31.678335	0.477988
0.001411	0.614814	68.788390	
0.50000	0.547235	59.761381	0.477988
0.001411	0.064124	94.188709	
0.75000	0.547235	86.129618	0.477988
0.001411	0.382466	73.607791	
1.00000	0.547235	113.662993	0.477988
0.001411	0.769041	19.625834	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 4639

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.452329	-115.004744	-0.319440
-0.001456	-0.819699	-79.161873	
0.25000	-0.452329	-87.039483	-0.319440
-0.001456	-0.430775	-30.582592	
0.50000	-0.452329	-60.575884	-0.319440
-0.001456	-0.053153	-30.539736	
0.75000	-0.452329	-32.434614	-0.319440
-0.001456	-0.588566	-31.073509	
1.00000	-0.452329	-12.825198	-0.319440
-0.001456	-1.177061	-78.906799	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.547235	11.974412	0.477988
0.001411	1.191452	16.681948	
0.25000	0.547235	31.678335	0.477988
0.001411	0.614814	68.788390	
0.50000	0.547235	59.761381	0.477988
0.001411	0.064124	94.188709	
0.75000	0.547235	86.129618	0.477988
0.001411	0.382466	73.607791	
1.00000	0.547235	113.662993	0.477988
0.001411	0.769041	19.625834	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.452329	-115.004744	-0.319440
-0.001456	-0.819699	-79.161873	
0.25000	-0.452329	-87.039483	-0.319440
-0.001456	-0.430775	-30.582592	
0.50000	-0.452329	-60.575884	-0.319440
-0.001456	-0.053153	-30.539736	
0.75000	-0.452329	-32.434614	-0.319440
-0.001456	-0.588566	-31.073509	
1.00000	-0.452329	-12.825198	-0.319440
-0.001456	-1.177061	-78.906799	

ELEM 452 ========== LENGTH = 4.943454

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251922	0.132059	0.079380
4.01E-07	0.189467	1.719724	
0.25000	0.251922	0.156099	0.079380
4.01E-07	0.091360	2.142638	
0.50000	0.251922	0.187856	0.079380
4.01E-07	0.009300	2.551773	
0.75000	0.251922	0.217627	0.079380
4.01E-07	0.069451	2.927744	
1.00000	0.251922	0.248819	0.079380
4.01E-07	0.131130	3.277643	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.222606	-0.484772	-0.049986
-0.000594	-0.116172	-1.936573	
0.25000	-0.222606	-0.453467	-0.049986
-0.000594	-0.054410	-1.949148	
0.50000	-0.222606	-0.423714	-0.049986
-0.000594	-0.006731	-2.015793	
0.75000	-0.222606	-0.391948	-0.049986
-0.000594	-0.104909	-2.083484	
1.00000	-0.222606	-0.367783	-0.049986
-0.000594	-0.203010	-2.205190	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.378330	0.538570	0.133500
4.01E-07	0.319732	4.241653	
0.25000	0.378330	1.211690	0.133500
4.01E-07	0.154963	6.509885	
0.50000	0.378330	2.100893	0.133500
4.01E-07	0.020508	7.952216	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 4640

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.378330	2.934492	0.133500
4.01E-07	0.121137	8.113307	
1.00000	0.378330	3.807872	0.133500
4.01E-07	0.228266	7.334564	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.321216	-4.438583	-0.086794
-0.001071	-0.200832	-5.815287	
0.25000	-0.321216	-3.562051	-0.086794
-0.001071	-0.093784	-4.388696	
0.50000	-0.321216	-2.728959	-0.086794
-0.001071	-0.012893	-4.476084	
0.75000	-0.321216	-1.839512	-0.086794
-0.001071	-0.176248	-4.592720	
1.00000	-0.321216	-1.162881	-0.086794
-0.001071	-0.341163	-6.215222	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.378436	0.307380	0.178227
0.000167	0.439762	7.232850	
0.25000	0.378436	0.329016	0.178227
0.000167	0.219834	8.080133	
0.50000	0.378436	0.357598	0.178227
0.000167	0.031611	9.203844	
0.75000	0.378436	0.384392	0.178227
0.000167	0.134083	10.598843	
1.00000	0.378436	0.412465	0.178227
0.000167	0.251223	12.166173	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.288872	-1.615963	-0.095968
-0.001247	-0.227734	-4.962778	
0.25000	-0.288872	-1.587788	-0.095968
-0.001247	-0.109247	-5.038791	
0.50000	-0.288872	-1.561010	-0.095968
-0.001247	-0.016134	-5.163556	
0.75000	-0.288872	-1.532421	-0.095968
-0.001247	-0.221490	-5.289262	
1.00000	-0.288872	-1.510672	-0.095968
-0.001247	-0.441529	-5.463641	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.397573	6.469547	0.248988
0.000532	0.628028	15.993143	
0.25000	0.397573	19.216751	0.248988
0.000532	0.324104	49.729297	
0.50000	0.397573	36.056033	0.248988
0.000532	0.062250	64.277356	
0.75000	0.397573	51.823116	0.248988
0.000532	0.176959	53.000886	
1.00000	0.397573	68.381960	0.248988
0.000532	0.344854	21.904149	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.354794	-70.052045	-0.136594
-0.001098	-0.334704	-50.398265	
0.25000	-0.354794	-53.452720	-0.136594
-0.001098	-0.166390	-21.458941	
0.50000	-0.354794	-37.676033	-0.136594
-0.001098	-0.040487	-21.190655	
0.75000	-0.354794	-20.832134	-0.136594
-0.001098	-0.314500	-21.476335	
1.00000	-0.354794	-8.018431	-0.136594
-0.001098	-0.620485	-50.276108	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.110241	0.127204	0.056299
4.42E-06	0.141418	3.029257	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 4641

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.110241	0.151244	0.056299
4.42E-06	0.071983	3.383639	
0.50000	0.110241	0.183002	0.056299
4.42E-06	0.013363	3.879771	
0.75000	0.110241	0.212773	0.056299
4.42E-06	0.053490	4.459299	
1.00000	0.110241	0.243965	0.056299
4.42E-06	0.100141	5.094316	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.078668	-0.762610	-0.037788
-0.000508	-0.086916	-2.012950	
0.25000	-0.078668	-0.731306	-0.037788
-0.000508	-0.040410	-1.992773	
0.50000	-0.078668	-0.701552	-0.037788
-0.000508	-0.006021	-2.040666	
0.75000	-0.078668	-0.669786	-0.037788
-0.000508	-0.067602	-2.082604	
1.00000	-0.078668	-0.645621	-0.037788
-0.000508	-0.137069	-2.178317	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.161122	8.539010	0.152087
0.000180	0.392800	18.251518	
0.25000	0.161122	25.992042	0.152087
0.000180	0.209653	61.835519	
0.50000	0.161122	49.047807	0.152087
0.000180	0.062395	80.902780	
0.75000	0.161122	70.661841	0.152087
0.000180	0.085739	64.384270	
1.00000	0.161122	93.307350	0.152087
0.000180	0.164622	20.604463	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.100592	-94.704596	-0.064633
-0.000668	-0.160819	-65.206989	
0.25000	-0.100592	-71.977283	-0.064633
-0.000668	-0.081513	-25.488484	
0.50000	-0.100592	-50.376387	-0.064633
-0.000668	-0.042456	-25.025368	
0.75000	-0.100592	-27.314302	-0.064633
-0.000668	-0.196833	-25.321512	
1.00000	-0.100592	-9.770222	-0.064633
-0.000668	-0.382792	-64.656175	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.327160	7.812316	0.197687
0.000163	0.498796	16.165147	
0.25000	0.327160	23.584953	0.197687
0.000163	0.258815	57.624546	
0.50000	0.327160	44.420885	0.197687
0.000163	0.062443	75.179161	
0.75000	0.327160	63.953899	0.197687
0.000163	0.130786	60.580897	
1.00000	0.327160	84.419076	0.197687
0.000163	0.248919	21.341577	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.235505	-85.878751	-0.096091
-0.001082	-0.232257	-60.420167	
0.25000	-0.235505	-65.339728	-0.096091
-0.001082	-0.114035	-24.575746	
0.50000	-0.235505	-45.815868	-0.096091
-0.001082	-0.043480	-24.207156	
0.75000	-0.235505	-24.976943	-0.096091
-0.001082	-0.257445	-24.523912	
1.00000	-0.235505	-9.122024	-0.096091
-0.001082	-0.499976	-60.122162	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 4642

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.360752	5.281478	0.270275
0.000805	0.685653	15.477586	
0.25000	0.360752	15.630693	0.270275
0.000805	0.354872	43.075613	
0.50000	0.360752	29.302190	0.270275
0.000805	0.061141	55.211918	
0.75000	0.360752	42.118776	0.270275
0.000805	0.198438	46.497713	
1.00000	0.360752	55.547001	0.270275
0.000805	0.391084	21.784560	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.347512	-57.389767	-0.156508
-0.000892	-0.387298	-42.111746	
0.25000	-0.347512	-43.913087	-0.156508
-0.000892	-0.194233	-18.625482	
0.50000	-0.347512	-31.104291	-0.156508
-0.000892	-0.036450	-18.416720	
0.75000	-0.347512	-17.429047	-0.156508
-0.000892	-0.332653	-18.657767	
1.00000	-0.347512	-7.025842	-0.156508
-0.000892	-0.665231	-42.048781	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.137588	0.144558	0.178711
0.001029	0.457865	4.686774	
0.25000	0.137588	0.168598	0.178711
0.001029	0.374488	5.223123	
0.50000	0.137588	0.200355	0.178711
0.001029	0.019098	5.924712	
0.75000	0.137588	0.230127	0.178711
0.001029	0.153707	6.793625	
1.00000	0.137588	0.261319	0.178711
0.001029	0.314845	7.725711	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.244795	-1.067690	-0.130437
-7.08E-06	-0.229965	-2.514353	
0.25000	-0.244795	-1.036385	-0.130437
-7.08E-06	-0.168764	-2.479010	
0.50000	-0.244795	-1.006632	-0.130437
-7.08E-06	-0.007889	-2.497833	
0.75000	-0.244795	-0.974866	-0.130437
-7.08E-06	-0.205710	-2.517774	
1.00000	-0.244795	-0.945658	-0.130437
-7.08E-06	-0.426278	-2.591490	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.219373	10.409192	0.282960
0.001239	0.731373	19.555176	
0.25000	0.219373	31.660533	0.282960
0.001239	0.387884	75.031943	
0.50000	0.219373	59.733943	0.282960
0.001239	0.074117	98.222442	
0.75000	0.219373	86.051858	0.282960
0.001239	0.203155	78.033866	
1.00000	0.219373	113.625728	0.282960
0.001239	0.418108	24.582007	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.331844	-115.261973	-0.173911
-8.81E-05	-0.442038	-78.870937	
0.25000	-0.331844	-87.588605	-0.173911
-8.81E-05	-0.228244	-30.466252	
0.50000	-0.331844	-61.286688	-0.173911
-8.81E-05	-0.050348	-29.860127	
0.75000	-0.331844	-33.205581	-0.173911
-8.81E-05	-0.349554	-30.177523	
1.00000	-0.331844	-11.843368	-0.173911
-8.81E-05	-0.696637	-78.031429	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 4643

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.246612	7.248018	0.298820
0.001218	0.771195	18.356556	
0.25000	0.246612	21.830676	0.298820
0.001218	0.406524	56.854680	
0.50000	0.246612	41.094625	0.298820
0.001218	0.070840	73.424652	
0.75000	0.246612	59.153954	0.298820
0.001218	0.214745	60.480029	
1.00000	0.246612	78.075119	0.298820
0.001218	0.433089	24.860389	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.305826	-80.076149	-0.177002
-0.000460	-0.448407	-56.724531	
0.25000	-0.305826	-61.086709	-0.177002
-0.000460	-0.230066	-23.550112	
0.50000	-0.305826	-43.038357	-0.177002
-0.000460	-0.042708	-23.175100	
0.75000	-0.305826	-23.769127	-0.177002
-0.000460	-0.372814	-23.433836	
1.00000	-0.305826	-9.110396	-0.177002
-0.000460	-0.726386	-56.312250	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.336512	6.078035	0.297522
0.001015	0.758499	16.712764	
0.25000	0.336512	18.140099	0.297522
0.001015	0.394641	48.775820	
0.50000	0.336512	34.074300	0.297522
0.001015	0.076828	62.758942	
0.75000	0.336512	49.012098	0.297522
0.001015	0.223326	52.396209	
1.00000	0.336512	64.662765	0.297522
0.001015	0.443949	23.312210	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.357580	-66.571237	-0.179133
-0.000773	-0.446173	-48.246553	
0.25000	-0.357580	-50.864096	-0.179133
-0.000773	-0.225257	-20.844990	
0.50000	-0.357580	-35.935378	-0.179133
-0.000773	-0.039650	-20.573512	
0.75000	-0.357580	-19.996809	-0.179133
-0.000773	-0.363249	-20.826239	
1.00000	-0.357580	-7.871820	-0.179133
-0.000773	-0.729154	-48.060355	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.456537	0.221879	0.111808
2.26E-07	0.269196	2.336634	
0.25000	0.456537	0.220020	0.111808
2.26E-07	0.130517	2.890623	
0.50000	0.456537	0.249433	0.111808
2.26E-07	0.012837	3.436649	
0.75000	0.456537	0.270577	0.111808
2.26E-07	0.097206	3.959979	
1.00000	0.456537	0.289127	0.111808
2.26E-07	0.185648	4.477479	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283156	-0.563180	-0.071532
-0.000581	-0.167816	-2.425783	
0.25000	-0.283156	-0.544629	-0.071532
-0.000581	-0.079487	-2.660198	
0.50000	-0.283156	-0.523479	-0.071532
-0.000581	-0.009246	-2.922903	
0.75000	-0.283156	-0.500444	-0.071532
-0.000581	-0.144232	-3.185679	
1.00000	-0.283156	-0.495834	-0.071532
-0.000581	-0.282791	-3.476444	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 4644

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.589720	0.618961	0.198281
2.26E-07	0.480592	4.959203	
0.25000	0.589720	0.855055	0.198281
2.26E-07	0.235154	5.648671	
0.50000	0.589720	1.418042	0.198281
2.26E-07	0.025933	8.059175	
0.75000	0.589720	2.031209	0.198281
2.26E-07	0.163316	8.718393	
1.00000	0.589720	2.569168	0.198281
2.26E-07	0.311065	9.105444	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.487502	-3.209431	-0.119864
-0.001017	-0.381277	-5.657891	
0.25000	-0.487502	-2.671433	-0.119864
-0.001017	-0.133628	-5.290899	
0.50000	-0.487502	-2.058100	-0.119864
-0.001017	-0.016601	-5.742391	
0.75000	-0.487502	-1.494468	-0.119864
-0.001017	-0.253337	-6.195589	
1.00000	-0.487502	-1.256789	-0.119864
-0.001017	-0.499073	-7.458788	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.589086	0.560969	0.261610
0.000186	0.648615	7.839491	
0.25000	0.589086	0.568296	0.261610
0.000186	0.324400	9.187902	
0.50000	0.589086	0.585768	0.261610
0.000186	0.038804	10.666697	
0.75000	0.589086	0.604797	0.261610
0.000186	0.192600	12.380016	
1.00000	0.589086	0.621493	0.261610
0.000186	0.372547	14.153935	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.432509	-1.772582	-0.146459
-0.001149	-0.351541	-6.278110	
0.25000	-0.432509	-1.755886	-0.146459
-0.001149	-0.170995	-6.849915	
0.50000	-0.432509	-1.736851	-0.146459
-0.001149	-0.022421	-7.046686	
0.75000	-0.432509	-1.719359	-0.146459
-0.001149	-0.319892	-8.043469	
1.00000	-0.432509	-1.711970	-0.146459
-0.001149	-0.643401	-8.665492	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.633161	6.130106	0.349957
0.000499	0.877614	14.143149	
0.25000	0.633161	11.826893	0.349957
0.000499	0.452071	33.079875	
0.50000	0.633161	25.411375	0.349957
0.000499	0.065249	44.767491	
0.75000	0.633161	40.206664	0.349957
0.000499	0.271001	36.808145	
1.00000	0.633161	53.187261	0.349957
0.000499	0.527390	21.289292	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.473685	-54.662450	-0.212920
-0.001017	-0.530501	-37.710256	
0.25000	-0.473685	-41.680929	-0.212920
-0.001017	-0.270000	-18.517000	
0.50000	-0.473685	-26.881615	-0.212920
-0.001017	-0.037862	-19.070475	
0.75000	-0.473685	-13.281577	-0.212920
-0.001017	-0.428561	-19.663806	
1.00000	-0.473685	-7.536642	-0.212920
-0.001017	-0.859667	-39.601030	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page 4645

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.115467	0.216068	0.094116
2.26E-06	0.234152	3.069828	
0.25000	0.115467	0.224209	0.094116
2.26E-06	0.117463	3.676743	
0.50000	0.115467	0.243623	0.094116
2.26E-06	0.015722	4.285431	
0.75000	0.115467	0.264767	0.094116
2.26E-06	0.068968	4.919448	
1.00000	0.115467	0.283317	0.094116
2.26E-06	0.132315	5.571355	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.182606	-0.762191	-0.051468
-0.000433	-0.122054	-2.431826	
0.25000	-0.182606	-0.743639	-0.051468
-0.000433	-0.058645	-2.619104	
0.50000	-0.182606	-0.722489	-0.051468
-0.000433	-0.008128	-2.834589	
0.75000	-0.182606	-0.703054	-0.051468
-0.000433	-0.115585	-3.050149	
1.00000	-0.182606	-0.694844	-0.051468
-0.000433	-0.230947	-3.293606	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.225429	8.681252	0.210356
0.000185	0.534845	13.960730	
0.25000	0.225429	17.351602	0.210356
0.000185	0.286452	41.634753	
0.50000	0.225429	38.026806	0.210356
0.000185	0.062917	58.129851	
0.75000	0.225429	60.544823	0.210356
0.000185	0.140354	44.270742	
1.00000	0.225429	80.300930	0.210356
0.000185	0.262889	18.855813	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.179712	-81.462763	-0.107352
-0.000562	-0.276574	-51.541882	
0.25000	-0.179712	-61.705251	-0.107352
-0.000562	-0.147749	-21.776232	
0.50000	-0.179712	-39.181107	-0.107352
-0.000562	-0.035937	-22.064971	
0.75000	-0.179712	-18.482229	-0.107352
-0.000562	-0.261272	-22.413974	
1.00000	-0.179712	-9.738597	-0.107352
-0.000562	-0.517531	-52.508575	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.477490	8.015825	0.277716
0.000168	0.694958	14.552685	
0.25000	0.477490	15.863102	0.277716
0.000168	0.361495	40.039264	
0.50000	0.477490	34.575618	0.277716
0.000168	0.067647	55.409991	
0.75000	0.477490	54.956009	0.277716
0.000168	0.199083	43.305293	
1.00000	0.477490	72.836677	0.277716
0.000168	0.375429	20.749162	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.371957	-74.125524	-0.149837
-0.000954	-0.373433	-48.777832	
0.25000	-0.371957	-56.243584	-0.149837
-0.000954	-0.191918	-22.019368	
0.50000	-0.371957	-35.857647	-0.149837
-0.000954	-0.039540	-22.462136	
0.75000	-0.371957	-17.123705	-0.149837
-0.000954	-0.348922	-22.959425	
1.00000	-0.371957	-9.210102	-0.149837
-0.000954	-0.689030	-50.378569	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4646

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.519082	5.155362	0.383622
0.000736	0.967772	13.843943	
0.25000	0.519082	9.887419	0.383622
0.000736	0.499399	29.892386	
0.50000	0.519082	21.171421	0.383622
0.000736	0.064324	39.982142	
0.75000	0.519082	33.411184	0.383622
0.000736	0.302756	33.821354	
1.00000	0.519082	44.243566	0.383622
0.000736	0.597123	21.409450	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.470214	-45.859943	-0.242822
-0.000790	-0.608371	-32.843581	
0.25000	-0.470214	-35.076794	-0.242822
-0.000790	-0.310711	-16.974333	
0.50000	-0.470214	-22.783687	-0.242822
-0.000790	-0.035944	-11.107849	
0.75000	-0.470214	-11.486764	-0.242822
-0.000790	-0.462542	-18.074118	
1.00000	-0.470214	-6.714711	-0.242822
-0.000790	-0.934816	-34.874962	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.175964	0.201839	0.255747
0.000968	0.651570	4.375709	
0.25000	0.175964	0.209980	0.255747
0.000968	0.335288	5.175003	
0.50000	0.175964	0.229393	0.255747
0.000968	0.021513	6.033878	
0.75000	0.175964	0.250537	0.255747
0.000968	0.234072	6.975933	
1.00000	0.175964	0.269087	0.255747
0.000968	0.479423	7.954893	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.296150	-1.043568	-0.198626
-6.86E-06	-0.502499	-3.014394	
0.25000	-0.296150	-1.025016	-0.198626
-6.86E-06	-0.257136	-3.198018	
0.50000	-0.296150	-1.003867	-0.198626
-6.86E-06	-0.010759	-3.408975	
0.75000	-0.296150	-0.984431	-0.198626
-6.86E-06	-0.295611	-3.619879	
1.00000	-0.296150	-0.976221	-0.198626
-6.86E-06	-0.611911	-3.858634	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.342832	12.173257	0.390173
0.001081	0.995749	17.786372	
0.25000	0.342832	24.482712	0.390173
0.001081	0.529957	56.768862	
0.50000	0.342832	53.835677	0.390173
0.001081	0.079583	79.840752	
0.75000	0.342832	85.804918	0.390173
0.001081	0.343476	59.783842	
1.00000	0.342832	113.853025	0.390173
0.001081	0.662179	23.284951	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.373411	-115.249698	-0.276232
-6.64E-05	-0.714280	-71.509382	
0.25000	-0.373411	-87.199597	-0.276232
-6.64E-05	-0.378240	-29.041993	
0.50000	-0.373411	-55.221657	-0.276232
-6.64E-05	-0.045720	-29.243431	
0.75000	-0.373411	-25.835080	-0.276232
-6.64E-05	-0.471599	-29.527719	
1.00000	-0.373411	-13.421586	-0.276232
-6.64E-05	-0.950508	-71.999725	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4647

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.341886	8.958625	0.420556
0.001087	1.073381	17.160166	
0.25000	0.341886	17.831691	0.420556
0.001087	0.564951	45.992977	
0.50000	0.341886	38.990287	0.420556
0.001087	0.078518	63.444482	
0.75000	0.341886	62.034781	0.420556
0.001087	0.342397	49.887508	
1.00000	0.341886	82.252792	0.420556
0.001087	0.679697	24.534775	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.375097	-83.997078	-0.281202
-0.000361	-0.719885	-54.548665	
0.25000	-0.375097	-63.777630	-0.281202
-0.000361	-0.376268	-24.194240	
0.50000	-0.375097	-40.726865	-0.281202
-0.000361	-0.043532	-24.595886	
0.75000	-0.375097	-19.544041	-0.281202
-0.000361	-0.502038	-25.059268	
1.00000	-0.375097	-10.595980	-0.281202
-0.000361	-1.017962	-55.963391	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.459880	7.578908	0.424248
0.000906	1.073624	16.091724	
0.25000	0.459880	14.942600	0.424248
0.000906	0.558416	40.385684	
0.50000	0.459880	32.501963	0.424248
0.000906	0.074874	55.249815	
0.75000	0.459880	51.626419	0.424248
0.000906	0.343381	44.423794	
1.00000	0.459880	68.405198	0.424248
0.000906	0.677266	23.823271	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.502325	-70.107209	-0.276874
-0.000675	-0.699335	-47.127956	
0.25000	-0.502325	-53.327237	-0.276874
-0.000675	-0.360593	-22.093081	
0.50000	-0.502325	-34.197577	-0.276874
-0.000675	-0.042015	-22.582421	
0.75000	-0.502325	-16.618107	-0.276874
-0.000675	-0.512375	-23.118087	
1.00000	-0.502325	-9.192177	-0.276874
-0.000675	-1.033886	-48.922196	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.397573	10.409182	0.298820
0.001239	0.771195	19.555176	
0.25000	0.397573	31.660533	0.298820
0.001239	0.406524	75.031943	
0.50000	0.397573	59.733943	0.298820
0.001239	0.074117	98.222442	
0.75000	0.397573	86.051858	0.298820
0.001239	0.223326	78.033866	
1.00000	0.397573	113.625728	0.298820
0.001239	0.443949	24.860389	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.357580	-115.261973	-0.179133
-0.001247	-0.448407	-78.870937	
0.25000	-0.357580	-87.588605	-0.179133
-0.001247	-0.230066	-30.466252	
0.50000	-0.357580	-61.286688	-0.179133
-0.001247	-0.050348	-29.860127	
0.75000	-0.357580	-33.205581	-0.179133
-0.001247	-0.363249	-30.177523	
1.00000	-0.357580	-11.843368	-0.179133
-0.001247	-0.729154	-78.031429	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4648

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.633161	12.173257	0.424248
0.001087	1.073624	17.786372	
0.25000	0.633161	24.482712	0.424248
0.001087	0.564951	56.768862	
0.50000	0.633161	53.835677	0.424248
0.001087	0.079583	79.840752	
0.75000	0.633161	85.804918	0.424248
0.001087	0.343381	59.783842	
1.00000	0.633161	113.853025	0.424248
0.001087	0.679697	24.534775	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.502325	-115.249698	-0.281202
-0.001149	-0.719885	-71.509382	
0.25000	-0.502325	-87.199597	-0.281202
-0.001149	-0.378240	-29.041993	
0.50000	-0.502325	-55.221657	-0.281202
-0.001149	-0.045720	-29.243431	
0.75000	-0.502325	-25.835080	-0.281202
-0.001149	-0.512375	-29.527719	
1.00000	-0.502325	-13.421586	-0.281202
-0.001149	-1.033886	-71.999725	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.633161	12.173257	0.424248
0.001239	1.073624	19.555176	
0.25000	0.633161	31.660533	0.424248
0.001239	0.564951	75.031943	
0.50000	0.633161	59.733943	0.424248
0.001239	0.079583	98.222442	
0.75000	0.633161	86.051858	0.424248
0.001239	0.343381	78.033866	
1.00000	0.633161	113.853025	0.424248
0.001239	0.679697	24.860389	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.502325	-115.261973	-0.281202
-0.001247	-0.719885	-78.870937	
0.25000	-0.502325	-87.588605	-0.281202
-0.001247	-0.378240	-30.466252	
0.50000	-0.502325	-61.286688	-0.281202
-0.001247	-0.050348	-29.860127	
0.75000	-0.502325	-33.205581	-0.281202
-0.001247	-0.512375	-30.177523	
1.00000	-0.502325	-13.421586	-0.281202
-0.001247	-1.033886	-78.031429	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.633161	12.173257	0.424248
0.001239	1.073624	19.555176	
0.25000	0.633161	31.660533	0.424248
0.001239	0.564951	75.031943	
0.50000	0.633161	59.733943	0.424248
0.001239	0.079583	98.222442	
0.75000	0.633161	86.051858	0.424248
0.001239	0.343381	78.033866	
1.00000	0.633161	113.853025	0.424248
0.001239	0.679697	24.860389	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.502325	-115.261973	-0.281202
-0.001247	-0.719885	-78.870937	
0.25000	-0.502325	-87.588605	-0.281202
-0.001247	-0.378240	-30.466252	
0.50000	-0.502325	-61.286688	-0.281202
-0.001247	-0.050348	-29.860127	
0.75000	-0.502325	-33.205581	-0.281202
-0.001247	-0.512375	-30.177523	
1.00000	-0.502325	-13.421586	-0.281202
-0.001247	-1.033886	-78.031429	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4649

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 453 ========== LENGTH = 4.943178

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.278127	0.129876	0.096585
4.09E-06	0.232481	3.288852	
0.25000	0.278127	0.153996	0.096585
4.09E-06	0.113117	3.471532	
0.50000	0.278127	0.185740	0.096585
4.09E-06	0.013993	3.632289	
0.75000	0.278127	0.215490	0.096585
4.09E-06	0.105553	3.755522	
1.00000	0.278127	0.246736	0.096585
4.09E-06	0.199919	3.858542	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.230594	-32.345847	-0.076533
-0.000383	-0.178555	-2.230366	
0.25000	-0.230594	-0.293272	-0.076533
-0.000383	-0.084117	-2.063766	
0.50000	-0.230594	-0.263526	-0.076533
-0.000383	-0.006061	-1.950771	
0.75000	-0.230594	-0.231780	-0.076533
-0.000383	-0.125635	-1.838974	
1.00000	-0.230594	-0.207634	-0.076533
-0.000383	-0.244984	-1.780944	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.409150	0.601034	0.159650
9.06E-05	0.384744	7.350259	
0.25000	0.409150	1.276397	0.159650
9.06E-05	0.187589	9.157932	
0.50000	0.409150	2.165235	0.159650
9.06E-05	0.029021	10.061767	
0.75000	0.409150	2.998433	0.159650
9.06E-05	0.181167	9.717506	
1.00000	0.409150	3.873128	0.159650
9.06E-05	0.342587	8.451849	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.337303	-4.108408	-0.131114
-0.000733	-0.306162	-6.254556	
0.25000	-0.337303	-3.232725	-0.131114
-0.000733	-0.144581	-4.524383	
0.50000	-0.337303	-2.399829	-0.131114
-0.000733	-0.011826	-4.295115	
0.75000	-0.337303	-1.510946	-0.131114
-0.000733	-0.208057	-4.099430	
1.00000	-0.337303	-0.834843	-0.131114
-0.000733	-0.405135	-5.409209	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.416695	0.609974	0.174725
0.000326	0.436384	12.171996	
0.25000	0.416695	0.631682	0.174725
0.000326	0.221036	12.199110	
0.50000	0.416695	0.660252	0.174725
0.000326	0.044086	12.463199	
0.75000	0.416695	0.687027	0.174725
0.000326	0.200403	13.051481	
1.00000	0.416695	0.715148	0.174725
0.000326	0.378661	13.855738	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.318305	-1.136776	-0.144644
-0.000939	-0.336716	-5.498790	
0.25000	-0.318305	-1.108629	-0.144644
-0.000939	-0.158341	-5.148546	
0.50000	-0.318305	-1.081857	-0.144644
-0.000939	-0.014716	-4.846546	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4650

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.318305	-1.053286	-0.144644
-0.000939	-0.218625	-4.545659	
1.00000	-0.318305	-1.031554	-0.144644
-0.000939	-0.428224	-4.293168	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.434670	6.914702	0.223893
0.000585	0.574913	21.889388	
0.25000	0.434670	19.704402	0.223893
0.000585	0.301474	54.821530	
0.50000	0.434670	36.536772	0.223893
0.000585	0.077555	68.115434	
0.75000	0.434670	52.311857	0.223893
0.000585	0.225454	55.885979	
1.00000	0.434670	68.879981	0.223893
0.000585	0.425255	23.884222	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.380586	-69.441888	-0.166730
-0.000946	-0.399292	-50.299631	
0.25000	-0.380586	-52.858633	-0.166730
-0.000946	-0.197797	-21.172713	
0.50000	-0.380586	-37.085663	-0.166730
-0.000946	-0.037789	-20.469197	
0.75000	-0.380586	-20.252450	-0.166730
-0.000946	-0.279269	-20.401882	
1.00000	-0.380586	-7.448753	-0.166730
-0.000946	-0.546136	-48.843898	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.117203	0.242717	0.059757
0.000172	0.143791	5.095466	
0.25000	0.117203	0.266837	0.059757
0.000172	0.069940	5.090450	
0.50000	0.117203	0.298581	0.059757
0.000172	0.018231	5.207248	
0.75000	0.117203	0.326332	0.059757
0.000172	0.076267	5.452264	
1.00000	0.117203	0.359578	0.059757
0.000172	0.144355	5.783304	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.084183	-0.563305	-0.055273
-0.000397	-0.129246	-2.189231	
0.25000	-0.084183	-0.532030	-0.055273
-0.000397	-0.061240	-2.015496	
0.50000	-0.084183	-0.502284	-0.055273
-0.000397	-0.005570	-1.895365	
0.75000	-0.084183	-0.470538	-0.055273
-0.000397	-0.077823	-1.776434	
1.00000	-0.084183	-0.446392	-0.055273
-0.000397	-0.151645	-1.711269	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.178879	8.917817	0.120377
0.000355	0.321479	20.592654	
0.25000	0.178879	26.429033	0.120377
0.000355	0.176445	65.632598	
0.50000	0.178879	49.475333	0.120377
0.000355	0.072293	83.629483	
0.75000	0.178879	71.074035	0.120377
0.000355	0.117493	66.438824	
1.00000	0.178879	93.758739	0.120377
0.000355	0.210103	22.013514	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.120964	-94.233041	-0.081713
-0.000574	-0.194038	-64.672451	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4651

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.120964	-71.527822	-0.081713
-0.000574	-0.099156	-25.028751	
0.50000	-0.120964	-49.932015	-0.081713
-0.000574	-0.040033	-24.301397	
0.75000	-0.120964	-26.884561	-0.081713
-0.000574	-0.156575	-24.444827	
1.00000	-0.120964	-9.354181	-0.081713
-0.000574	-0.292306	-63.622797	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.356097	8.140451	0.181760
0.000314	0.466150	21.338329	
0.25000	0.356097	23.966034	0.181760
0.000314	0.244890	62.157888	
0.50000	0.356097	44.793414	0.181760
0.000314	0.076779	78.532510	
0.75000	0.356097	64.312671	0.181760
0.000314	0.188146	63.105573	
1.00000	0.356097	84.812988	0.181760
0.000314	0.344789	23.073775	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.264157	-85.321155	-0.132999
-0.000822	-0.313009	-60.155832	
0.25000	-0.264157	-64.802017	-0.132999
-0.000822	-0.154303	-24.238397	
0.50000	-0.264157	-45.285476	-0.132999
-0.000822	-0.040906	-23.490416	
0.75000	-0.264157	-24.457053	-0.132999
-0.000822	-0.237232	-23.529367	
1.00000	-0.264157	-8.614516	-0.132999
-0.000822	-0.449604	-58.844573	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.389303	5.821451	0.229890
0.000793	0.596582	21.754371	
0.25000	0.389303	16.205168	0.229890
0.000793	0.315277	48.430131	
0.50000	0.389303	29.871053	0.229890
0.000793	0.075889	59.274950	
0.75000	0.389303	42.678547	0.229890
0.000793	0.233307	49.530973	
1.00000	0.389303	56.129896	0.229890
0.000793	0.447075	23.850435	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.377572	-56.752394	-0.177139
-0.000902	-0.428971	-42.055971	
0.25000	-0.377572	-43.298762	-0.177139
-0.000902	-0.213838	-18.731592	
0.50000	-0.377572	-30.482984	-0.177139
-0.000902	-0.034025	-17.683444	
0.75000	-0.377572	-16.816415	-0.177139
-0.000902	-0.277729	-17.551754	
1.00000	-0.377572	-6.421335	-0.177139
-0.000902	-0.552332	-40.566579	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.144388	0.373036	0.136016
0.000793	0.360317	7.679039	
0.25000	0.144388	0.397156	0.136016
0.000793	0.192387	7.691749	
0.50000	0.144388	0.428900	0.136016
0.000793	0.025566	7.831972	
0.75000	0.144388	0.458650	0.136016
0.000793	0.135573	8.182833	
1.00000	0.144388	0.489896	0.136016
0.000793	0.277599	8.647684	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4652

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.260141	-0.791352	-0.115009
-0.000273	-0.291008	-2.558527	
0.25000	-0.260141	-0.760078	-0.115009
-0.000273	-0.148871	-2.346503	
0.50000	-0.260141	-0.730331	-0.115009
-0.000273	-0.007153	-2.188082	
0.75000	-0.260141	-0.698586	-0.115009
-0.000273	-0.145636	-2.030861	
1.00000	-0.260141	-0.674439	-0.115009
-0.000273	-0.313184	-1.927406	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.232382	10.847199	0.218708
0.000993	0.585323	24.520402	
0.25000	0.232382	32.169395	0.218708
0.000993	0.319378	79.447694	
0.50000	0.232382	60.231282	0.218708
0.000993	0.084914	101.363218	
0.75000	0.232382	86.530527	0.218708
0.000993	0.184356	80.364157	
1.00000	0.232382	114.151879	0.218708
0.000993	0.358501	26.147595	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.349553	-114.709310	-0.148849
-0.000416	-0.378923	-78.002296	
0.25000	-0.349553	-87.062734	-0.148849
-0.000416	-0.202051	-29.756416	
0.50000	-0.349553	-60.767013	-0.148849
-0.000416	-0.047419	-28.896264	
0.75000	-0.349553	-32.703722	-0.148849
-0.000416	-0.255593	-29.096370	
1.00000	-0.349553	-11.358191	-0.148849
-0.000416	-0.518775	-76.826136	

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.268619	7.831506	0.223219
0.001105	0.599040	24.801845	
0.25000	0.268619	22.462778	0.223219
0.001105	0.326673	62.389959	
0.50000	0.268619	41.718819	0.223219
0.001105	0.085144	77.529798	
0.75000	0.268619	59.765337	0.223219
0.001105	0.216560	63.520949	
1.00000	0.268619	78.719084	0.223219
0.001105	0.421023	26.906551	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.336238	-79.410766	-0.171160
-0.000702	-0.425183	-56.288684	
0.25000	-0.336238	-60.439711	-0.171160
-0.000702	-0.218688	-23.018337	
0.50000	-0.336238	-42.395611	-0.171160
-0.000702	-0.039984	-22.264066	
0.75000	-0.336238	-23.138606	-0.171160
-0.000702	-0.258943	-22.237348	
1.00000	-0.336238	-8.491321	-0.171160
-0.000702	-0.522482	-54.825441	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.360686	6.583137	0.244510
0.000945	0.639652	23.268759	
0.25000	0.360686	18.685413	0.244510
0.000945	0.340401	54.381204	
0.50000	0.360686	34.613073	0.244510
0.000945	0.081096	66.983907	
0.75000	0.360686	49.540275	0.244510
0.000945	0.247652	55.529581	
1.00000	0.360686	65.217892	0.244510
0.000945	0.477985	26.437344	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4653

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.391303	-65.893865	-0.191127
-0.000863	-0.467281	-48.054949	
0.25000	-0.391303	-50.201931	-0.191127
-0.000863	-0.235342	-20.454210	
0.50000	-0.391303	-35.276730	-0.191127
-0.000863	-0.037111	-19.749171	
0.75000	-0.391303	-19.348272	-0.191127
-0.000863	-0.291007	-19.645944	
1.00000	-0.391303	-7.232752	-0.191127
-0.000863	-0.582865	-46.520101	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.507028	0.195682	0.128651
3.82E-06	0.311901	4.490294	
0.25000	0.507028	0.203865	0.128651
3.82E-06	0.152727	4.712472	
0.50000	0.507028	0.223279	0.128651
3.82E-06	0.019603	4.927810	
0.75000	0.507028	0.244414	0.128651
3.82E-06	0.141156	5.118536	
1.00000	0.507028	0.262958	0.128651
3.82E-06	0.269455	5.302185	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.293748	-0.408056	-0.103538
-0.000334	-0.242673	-3.498529	
0.25000	-0.293748	-0.389512	-0.103538
-0.000334	-0.114749	-3.505549	
0.50000	-0.293748	-0.368377	-0.103538
-0.000334	-0.009922	-3.540617	
0.75000	-0.293748	-0.348955	-0.103538
-0.000334	-0.164948	-3.575764	
1.00000	-0.293748	-0.340756	-0.103538
-0.000334	-0.324036	-3.638863	

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.643132	0.662937	0.218675
8.71E-05	0.533227	9.119511	
0.25000	0.643132	0.900238	0.218675
8.71E-05	0.262648	10.165193	
0.50000	0.643132	1.463237	0.218675
8.71E-05	0.037996	10.911378	
0.75000	0.643132	2.076146	0.218675
8.71E-05	0.232678	10.900279	
1.00000	0.643132	2.613924	0.218675
8.71E-05	0.444212	10.629188	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.519102	-2.923664	-0.170918
-0.000621	-0.401458	-7.492326	
0.25000	-0.519102	-2.385879	-0.170918
-0.000621	-0.190548	-6.736274	
0.50000	-0.519102	-1.772970	-0.170918
-0.000621	-0.018109	-6.787703	
0.75000	-0.519102	-1.095732	-0.170918
-0.000621	-0.278003	-6.845259	
1.00000	-0.519102	-0.971945	-0.170918
-0.000621	-0.548373	-7.712668	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.645145	0.831559	0.256173
0.000296	0.637065	14.152715	
0.25000	0.645145	0.838924	0.256173
0.000296	0.320229	14.476216	
0.50000	0.645145	0.855396	0.256173
0.000296	0.056111	14.923423	
0.75000	0.645145	0.875418	0.256173
0.000296	0.261133	15.609816	
1.00000	0.645145	0.892107	0.256173
0.000296	0.499839	16.413502	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4654

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.470525	-1.395085	-0.192743
-0.000795	-0.454835	-8.689360	
0.25000	-0.470525	-1.378395	-0.192743
-0.000795	-0.217401	-8.728429	
0.50000	-0.470525	-1.359374	-0.192743
-0.000795	-0.024418	-8.792537	
0.75000	-0.470525	-1.341894	-0.192743
-0.000795	-0.316006	-8.856738	
1.00000	-0.470525	-1.334514	-0.192743
-0.000795	-0.630637	-8.946208	

COMB DL-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.688502	6.536747	0.314836
0.000503	0.799912	21.261522	
0.25000	0.688502	12.262643	0.314836
0.000503	0.416833	39.156349	
0.50000	0.688502	25.847421	0.314836
0.000503	0.084559	49.598317	
0.75000	0.688502	40.636508	0.314836
0.000503	0.310993	40.463622	
1.00000	0.688502	53.612724	0.314836
0.000503	0.592513	23.830072	

COMB DL-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.511378	-54.242879	-0.234784
-0.000786	-0.579789	-39.803246	
0.25000	-0.511378	-41.266501	-0.234784
-0.000786	-0.290479	-20.475206	
0.50000	-0.511378	-26.477417	-0.234784
-0.000786	-0.039149	-20.172026	
0.75000	-0.511378	-12.886883	-0.234784
-0.000786	-0.383306	-20.247173	
1.00000	-0.511378	-7.149251	-0.234784
-0.000786	-0.768680	-39.862938	

COMB DL-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.117538	0.341862	0.092573
0.000161	0.229214	5.567439	
0.25000	0.117538	0.350049	0.092573
0.000161	0.114784	5.771463	
0.50000	0.117538	0.369458	0.092573
0.000161	0.021986	5.967073	
0.75000	0.117538	0.390593	0.092573
0.000161	0.091970	6.185533	
1.00000	0.117538	0.409137	0.092573
0.000161	0.176765	6.431570	

COMB DL-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.203646	-0.613557	-0.068330
-0.000322	-0.160868	-3.300000	
0.25000	-0.203646	-0.595012	-0.068330
-0.000322	-0.076789	-3.294111	
0.50000	-0.203646	-0.573878	-0.068330
-0.000322	-0.008944	-3.315051	
0.75000	-0.203646	-0.554456	-0.068330
-0.000322	-0.114327	-3.336215	
1.00000	-0.203646	-0.546256	-0.068330
-0.000322	-0.228814	-3.385291	

COMB DL-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.239354	9.068383	0.172955
0.000312	0.448942	18.834539	
0.25000	0.239354	17.783039	0.172955
0.000312	0.244826	45.884818	
0.50000	0.239354	38.458692	0.172955
0.000312	0.075747	61.462983	
0.75000	0.239354	60.967270	0.172955
0.000312	0.161345	46.769648	
1.00000	0.239354	80.716709	0.172955
0.000312	0.289049	20.571547	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4655

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.207679	-81.197198	-0.114091
-0.000464	-0.291877	-52.510930	
0.25000	-0.207679	-61.347413	-0.114091
-0.000464	-0.151747	-22.688405	
0.50000	-0.207679	-38.938939	-0.114091
-0.000464	-0.036339	-22.521068	
0.75000	-0.207679	-18.254524	-0.114091
-0.000464	-0.217692	-22.579714	
1.00000	-0.207679	-9.522009	-0.114091
-0.000464	-0.425817	-52.378627	

COMB DL-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.515904	8.345089	0.255238
0.000273	0.646235	20.738017	
0.25000	0.515904	16.232465	0.255238
0.000273	0.339310	45.388551	
0.50000	0.515904	34.945388	0.255238
0.000273	0.084409	59.651491	
0.75000	0.515904	55.317236	0.255238
0.000273	0.252148	46.502985	
1.00000	0.515904	73.191870	0.255238
0.000273	0.463813	22.955329	

COMB DL-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.411797	-73.751538	-0.180856
-0.000673	-0.445609	-50.403006	
0.25000	-0.411797	-55.876681	-0.180856
-0.000673	-0.222819	-23.392036	
0.50000	-0.411797	-35.504837	-0.180856
-0.000673	-0.040720	-23.161528	
0.75000	-0.411797	-16.783985	-0.180856
-0.000673	-0.323717	-23.241521	
1.00000	-0.411797	-8.880444	-0.180856
-0.000673	-0.634014	-50.238617	

COMB DL-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.557140	5.642871	0.331272
0.000666	0.849129	21.361595	
0.25000	0.557140	10.399109	0.331272
0.000666	0.444586	36.277696	
0.50000	0.557140	21.683357	0.331272
0.000666	0.083924	45.053518	
0.75000	0.557140	33.967968	0.331272
0.000666	0.323890	37.638993	
1.00000	0.557140	44.746712	0.331272
0.000666	0.627336	24.050294	

COMB DL-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.515583	-45.421613	-0.251428
-0.000744	-0.624998	-34.862186	
0.25000	-0.515583	-34.642735	-0.251428
-0.000744	-0.315141	-18.578790	
0.50000	-0.515583	-22.358126	-0.251428
-0.000744	-0.037539	-18.430877	
0.75000	-0.515583	-11.069097	-0.251428
-0.000744	-0.394210	-18.494587	
1.00000	-0.515583	-6.303112	-0.251428
-0.000744	-0.800041	-34.789761	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.183409	0.451409	0.203161
0.000679	0.530328	7.892232	
0.25000	0.183409	0.459592	0.203161
0.000679	0.279042	8.103621	
0.50000	0.183409	0.479006	0.203161
0.000679	0.029994	8.366441	
0.75000	0.183409	0.500140	0.203161
0.000679	0.209519	8.734245	
1.00000	0.183409	0.518685	0.203161
0.000679	0.413357	9.151859	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4656

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.322845	-0.838966	-0.172248
-0.000238	-0.438063	-3.806160	
0.25000	-0.322845	-0.820422	-0.172248
-0.000238	-0.225276	-3.779175	
0.50000	-0.322845	-0.799287	-0.172248
-0.000238	-0.011455	-3.779897	
0.75000	-0.322845	-0.779865	-0.172248
-0.000238	-0.221419	-3.779698	
1.00000	-0.322845	-0.771665	-0.172248
-0.000238	-0.473218	-3.810047	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.361820	12.638086	0.304280
0.000820	0.802333	23.202294	
0.25000	0.361820	25.010442	0.304280
0.000820	0.439888	61.542952	
0.50000	0.361820	54.364045	0.304280
0.000820	0.093511	83.557512	
0.75000	0.361820	86.319886	0.304280
0.000820	0.288133	62.566707	
1.00000	0.361820	114.358526	0.304280
0.000820	0.555955	25.179663	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.404113	-114.938415	-0.232568
-0.000329	-0.615828	-71.941988	
0.25000	-0.404113	-86.899425	-0.232568
-0.000329	-0.328642	-29.596854	
0.50000	-0.404113	-54.943591	-0.232568
-0.000329	-0.045290	-29.310535	
0.75000	-0.404113	-25.577548	-0.232568
-0.000329	-0.343042	-29.335541	
1.00000	-0.404113	-13.179836	-0.232568
-0.000329	-0.725121	-71.605942	

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.361305	9.559135	0.332238
0.000906	0.870341	24.452738	
0.25000	0.361305	18.477542	0.332238
0.000906	0.469601	52.254119	
0.50000	0.361305	39.636598	0.332238
0.000906	0.097174	68.377889	
0.75000	0.361305	62.671433	0.332238
0.000906	0.318711	53.587525	
1.00000	0.361305	82.882620	0.332238
0.000906	0.619179	27.066902	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.417491	-83.595694	-0.254342
-0.000553	-0.654760	-55.910338	
0.25000	-0.417491	-63.384255	-0.254342
-0.000553	-0.341181	-25.382331	
0.50000	-0.417491	-40.349425	-0.254342
-0.000553	-0.044164	-25.202850	
0.75000	-0.417491	-19.181403	-0.254342
-0.000553	-0.387245	-25.254582	
1.00000	-0.417491	-10.244719	-0.254342
-0.000553	-0.793915	-55.741983	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.487439	8.093749	0.357455
0.000775	0.922082	23.759276	
0.25000	0.487439	15.495069	0.357455
0.000775	0.488208	46.944150	
0.50000	0.487439	33.054814	0.357455
0.000775	0.094846	60.444536	
0.75000	0.487439	52.171254	0.357455
0.000775	0.349845	48.324615	
1.00000	0.487439	68.944369	0.357455
0.000775	0.676527	26.501451	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4657

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.554866	-69.660052	-0.273610
-0.000690	-0.689980	-48.894102	
0.25000	-0.554866	-52.886727	-0.273610
-0.000690	-0.352404	-23.549812	
0.50000	-0.554866	-33.770291	-0.273610
-0.000690	-0.043304	-23.353126	
0.75000	-0.554866	-16.203105	-0.273610
-0.000690	-0.424731	-23.373173	
1.00000	-0.554866	-8.786616	-0.273610
-0.000690	-0.862990	-48.688217	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.434670	10.847199	0.244510
0.001105	0.639652	24.801845	
0.25000	0.434670	32.169395	0.244510
0.001105	0.340401	79.447694	
0.50000	0.434670	60.231282	0.244510
0.001105	0.085144	101.363218	
0.75000	0.434670	86.530527	0.244510
0.001105	0.247652	80.364157	
1.00000	0.434670	114.151879	0.244510
0.001105	0.477985	26.906551	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.391303	-114.709310	-0.191127
-0.000946	-0.467281	-78.002296	
0.25000	-0.391303	-87.062734	-0.191127
-0.000946	-0.235342	-29.756416	
0.50000	-0.391303	-60.767013	-0.191127
-0.000946	-0.047419	-28.896264	
0.75000	-0.391303	-32.703722	-0.191127
-0.000946	-0.291007	-29.096370	
1.00000	-0.391303	-11.358191	-0.191127
-0.000946	-0.582865	-76.826136	

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.688502	12.638086	0.357455
0.000906	0.922082	24.452738	
0.25000	0.688502	25.010442	0.357455
0.000906	0.488208	61.542952	
0.50000	0.688502	54.364045	0.357455
0.000906	0.097174	83.557512	
0.75000	0.688502	86.319886	0.357455
0.000906	0.349845	62.566707	
1.00000	0.688502	114.358526	0.357455
0.000906	0.676527	27.066902	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.554866	-114.938415	-0.273610
-0.000795	-0.689980	-71.941988	
0.25000	-0.554866	-86.899425	-0.273610
-0.000795	-0.352404	-29.596854	
0.50000	-0.554866	-54.943591	-0.273610
-0.000795	-0.045290	-29.310535	
0.75000	-0.554866	-25.577548	-0.273610
-0.000795	-0.424731	-29.335541	
1.00000	-0.554866	-13.179836	-0.273610
-0.000795	-0.862990	-71.605942	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.688502	12.638086	0.357455
0.001105	0.922082	24.801845	
0.25000	0.688502	32.169395	0.357455
0.001105	0.488208	79.447694	
0.50000	0.688502	60.231282	0.357455
0.001105	0.097174	101.363218	
0.75000	0.688502	86.530527	0.357455
0.001105	0.349845	80.364157	
1.00000	0.688502	114.358526	0.357455
0.001105	0.676527	27.066902	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4658

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.554866	-114.938415	-0.273610
-0.000946	-0.689980	-78.002296	
0.25000	-0.554866	-87.062734	-0.273610
-0.000946	-0.352404	-29.756416	
0.50000	-0.554866	-60.767013	-0.273610
-0.000946	-0.047419	-29.310535	
0.75000	-0.554866	-32.703722	-0.273610
-0.000946	-0.424731	-29.335541	
1.00000	-0.554866	-13.179836	-0.273610
-0.000946	-0.862990	-76.826136	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.688502	12.638086	0.357455
0.001105	0.922082	24.801845	
0.25000	0.688502	32.169395	0.357455
0.001105	0.488208	79.447694	
0.50000	0.688502	60.231282	0.357455
0.001105	0.097174	101.363218	
0.75000	0.688502	86.530527	0.357455
0.001105	0.349845	80.364157	
1.00000	0.688502	114.358526	0.357455
0.001105	0.676527	27.066902	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.554866	-114.938415	-0.273610
-0.000946	-0.689980	-78.002296	
0.25000	-0.554866	-87.062734	-0.273610
-0.000946	-0.352404	-29.756416	
0.50000	-0.554866	-60.767013	-0.273610
-0.000946	-0.047419	-29.310535	
0.75000	-0.554866	-32.703722	-0.273610
-0.000946	-0.424731	-29.335541	
1.00000	-0.554866	-13.179836	-0.273610
-0.000946	-0.862990	-76.826136	

ELEM 454 ========== LENGTH = 4.943033

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.273037	0.122839	0.109812
7.22E-06	0.267003	3.877243	
0.25000	0.273037	0.146974	0.109812
7.22E-06	0.131312	3.915190	
0.50000	0.273037	0.178719	0.109812
7.22E-06	0.015197	3.932521	
0.75000	0.273037	0.208466	0.109812
7.22E-06	0.144305	3.913440	
1.00000	0.273037	0.239724	0.109812
7.22E-06	0.277122	3.873741	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.238888	-0.239951	-0.107511
-7.24E-06	-0.254815	-1.810788	
0.25000	-0.238888	-0.208697	-0.107511
-7.24E-06	-0.122004	-1.627072	
0.50000	-0.238888	-0.178948	-0.107511
-7.24E-06	-0.004764	-1.596077	
0.75000	-0.238888	-0.147204	-0.107511
-7.24E-06	-0.140136	-1.689881	
1.00000	-0.238888	-0.123074	-0.107511
-7.24E-06	-0.275827	-1.873320	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.397869	0.666161	0.180908
0.000190	0.440099	8.480122	
0.25000	0.397869	1.341940	0.180908
0.000190	0.216799	10.013794	
0.50000	0.397869	2.230781	0.180908
0.000190	0.031108	10.617205	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4659

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	0.397869	3.063706	0.180908
0.000190	0.244227	10.010482	
1.00000	0.397869	3.938915	0.180908
0.000190	0.467717	8.474818	

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.351171 -3.934483 -0.181436
-0.000332 -0.430485 -5.456471
0.25000 -0.351171 -3.959351 -0.181436
-0.000332 -0.206646 -3.704520
0.50000 -0.351171 -2.226396 -0.181436
-0.000332 -0.009715 -3.565266
0.75000 -0.351171 -1.337571 -0.181436
-0.000332 -0.231468 -3.818441
1.00000 -0.351171 -0.661915 -0.181436
-0.000332 -0.454832 -5.571863

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.412935 0.767931 0.192567
0.000439 0.466992 13.878021
0.25000 0.412935 0.789652 0.192567
0.000439 0.229014 13.496627
0.50000 0.412935 0.818222 0.192567
0.000439 0.046895 13.315798
0.75000 0.412935 0.844995 0.192567
0.000439 0.270701 13.491685
1.00000 0.412935 0.873127 0.192567
0.000439 0.518133 13.869559

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.333521 -0.867193 -0.200831
-0.000569 -0.475082 -4.339171
0.25000 -0.333521 -0.839064 -0.200831
-0.000569 -0.227471 -3.966948
0.50000 -0.333521 -0.812290 -0.200831
-0.000569 -0.011736 -3.796895
0.75000 -0.333521 -0.783721 -0.200831
-0.000569 -0.246996 -4.127028
1.00000 -0.333521 -0.762003 -0.200831
-0.000569 -0.484909 -4.505442

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.435067 7.137617 0.210362
0.000599 0.531236 23.889779
0.25000 0.435067 19.935178 0.210362
0.000599 0.276612 56.376499
0.50000 0.435067 36.767607 0.210362
0.000599 0.080528 69.099954
0.75000 0.435067 52.541133 0.210362
0.000599 0.286119 56.372037
1.00000 0.435067 69.115402 0.210362
0.000599 0.535644 23.885295

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.384024 -69.109942 -0.207156
-0.000707 -0.505989 -48.876645
0.25000 -0.384024 -52.537120 -0.207156
-0.000707 -0.251448 -19.798842
0.50000 -0.384024 -36.763032 -0.207156
-0.000707 -0.034289 -19.276420
0.75000 -0.384024 -19.930911 -0.207156
-0.000707 -0.271436 -19.961693
1.00000 -0.384024 -7.135670 -0.207156
-0.000707 -0.526814 -49.056580

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.114531 0.340647 0.067998
0.000302 0.165012 5.789435
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4660

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 0.114531 0.364781 0.067998
0.000302 0.081014 5.622855
0.50000 0.114531 0.396526 0.067998
0.000302 0.019247 5.538600
0.75000 0.114531 0.426273 0.067998
0.000302 0.099675 5.622180
1.00000 0.114531 0.457531 0.067998
0.000302 0.191075 5.787566

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.088019 -0.455751 -0.074183
-0.000303 -0.175941 -1.726136
0.25000 -0.088019 -0.424497 -0.074183
-0.000303 -0.084337 -1.546824
0.50000 -0.088019 -0.394748 -0.074183
-0.000303 -0.004567 -1.480129
0.75000 -0.088019 -0.363005 -0.074183
-0.000303 -0.087146 -1.608927
1.00000 -0.088019 -0.338874 -0.074183
-0.000303 -0.171112 -1.791302

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.183554 9.134447 0.113300
0.000482 0.287476 22.012983
0.25000 0.183554 26.656427 0.113300
0.000482 0.154068 66.767494
0.50000 0.183554 49.702807 0.113300
0.000482 0.074188 84.299614
0.75000 0.183554 71.299375 0.113300
0.000482 0.160002 66.760326
1.00000 0.183554 93.992292 0.113300
0.000482 0.282120 22.002838

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.125310 -93.985212 -0.105733
-0.000483 -0.264507 -63.643053
0.25000 -0.125310 -71.294276 -0.105733
-0.000483 -0.135532 -24.079574
0.50000 -0.125310 -49.696939 -0.105733
-0.000483 -0.037930 -23.495703
0.75000 -0.125310 -26.850980 -0.105733
-0.000483 -0.155720 -24.177709
1.00000 -0.125310 -9.132178 -0.105733
-0.000483 -0.290853 -63.757109

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.353372 8.345209 0.186163
0.000528 0.463366 23.085709
0.25000 0.353372 24.180156 0.186163
0.000528 0.239279 63.540301
0.50000 0.353372 45.007607 0.186163
0.000528 0.079357 79.382172
0.75000 0.353372 64.524836 0.186163
0.000528 0.256453 63.532319
1.00000 0.353372 85.032857 0.186163
0.000528 0.469567 23.073285

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.276019 -85.024208 -0.178744
-0.000548 -0.435855 -58.885470
0.25000 -0.276019 -64.517978 -0.178744
-0.000548 -0.216643 -23.028196
0.50000 -0.276019 -45.000055 -0.178744
-0.000548 -0.038043 -22.447582
0.75000 -0.276019 -24.172984 -0.178744
-0.000548 -0.247718 -23.166994
1.00000 -0.276019 -8.340909 -0.178744
-0.000548 -0.473365 -59.038721
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4661

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.391647 6.090262 0.202927
0.000833 0.514354 23.841254
0.25000 0.391647 16.480361 0.202927
0.000833 0.270448 50.048396
0.50000 0.391647 30.146293 0.202927
0.000833 0.078791 60.295692
0.75000 0.391647 42.952523 0.202927
0.000833 0.278802 50.049547
1.00000 0.391647 56.408860 0.202927
0.000833 0.528903 23.846353

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.376177 -56.407791 -0.206628
-0.000848 -0.506885 -40.583500
0.25000 -0.376177 -42.952629 -0.206628
-0.000848 -0.252757 -16.905728
0.50000 -0.376177 -30.145944 -0.206628
-0.000848 -0.030363 -16.442885
0.75000 -0.376177 -16.480261 -0.206628
-0.000848 -0.258341 -17.075473
1.00000 -0.376177 -6.092046 -0.206628
-0.000848 -0.506240 -40.773272

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.152519 0.519050 0.094365
0.000554 0.242838 8.615473
0.25000 0.152519 0.543189 0.094365
0.000554 0.129654 8.392854
0.50000 0.152519 0.574929 0.094365
0.000554 0.026633 8.293623
0.75000 0.152519 0.604677 0.094365
0.000554 0.121682 8.409071
1.00000 0.152519 0.635934 0.094365
0.000554 0.248093 8.648276

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.246446 -0.648075 -0.102296
-0.000589 -0.257615 -1.899178
0.25000 -0.246446 -0.616821 -0.102296
-0.000589 -0.131191 -1.703873
0.50000 -0.246446 -0.587072 -0.102296
-0.000589 -0.005230 -1.625007
0.75000 -0.246446 -0.555328 -0.102296
-0.000589 -0.107424 -1.681245
1.00000 -0.246446 -0.531198 -0.102296
-0.000589 -0.223817 -1.991188

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.243970 11.099755 0.147413
0.000740 0.392806 26.106258
0.25000 0.243970 32.435058 0.147413
0.000740 0.225925 80.707043
0.50000 0.243970 60.497042 0.147413
0.000740 0.086673 102.110721
0.75000 0.243970 86.793689 0.147413
0.000740 0.184551 80.717811
1.00000 0.243970 114.425285 0.147413
0.000740 0.341508 26.133140

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.331631 -114.432655 -0.134940
-0.000751 -0.354276 -76.800494
0.25000 -0.331631 -86.803471 -0.134940
-0.000751 -0.189179 -28.676980
0.50000 -0.331631 -60.505889 -0.134940
-0.000751 -0.044471 -27.988698
0.75000 -0.331631 -32.444417 -0.134940
-0.000751 -0.183823 -28.778592
1.00000 -0.331631 -11.112983 -0.134940
-0.000751 -0.358857 -76.931275
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4662

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.283034 8.154530 0.170995
0.000944 0.439109 26.870691
0.25000 0.283034 22.794795 0.170995
0.000944 0.239961 64.000056
0.50000 0.283034 42.050903 0.170995
0.000944 0.087615 78.532245
0.75000 0.283034 60.095639 0.170995
0.000944 0.231733 64.040459
1.00000 0.283034 79.056415 0.170995
0.000944 0.438797 26.893564

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.323203 -79.062272 -0.173269
-0.000956 -0.437702 -54.809524
0.25000 -0.323203 -60.103152 -0.173269
-0.000956 -0.224901 -21.625204
0.50000 -0.323203 -42.057774 -0.173269
-0.000956 -0.036346 -21.065804
0.75000 -0.323203 -22.806018 -0.173269
-0.000956 -0.214827 -21.778108
1.00000 -0.323203 -8.164407 -0.173269
-0.000956 -0.421683 -54.990740

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.366320 6.888652 0.208374
0.000921 0.525884 25.416687
0.25000 0.366320 18.998367 0.208374
0.000921 0.278472 56.046615
0.50000 0.366320 34.926083 0.208374
0.000921 0.083933 68.026797
0.75000 0.366320 49.851810 0.208374
0.000921 0.283472 56.053474
1.00000 0.366320 65.535241 0.208374
0.000921 0.539002 25.433566

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.386623 -65.538559 -0.211634
-0.000933 -0.523865 -46.524085
0.25000 -0.386623 -49.856496 -0.211634
-0.000933 -0.263594 -18.985904
0.50000 -0.386623 -34.930238 -0.211634
-0.000933 -0.033341 -18.476700
0.75000 -0.386623 -19.002814 -0.211634
-0.000933 -0.263183 -19.156271
1.00000 -0.386623 -6.895295 -0.211634
-0.000933 -0.516990 -46.718532

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.524365 0.230086 0.142449
5.89E-06 0.347233 5.328065
0.25000 0.524365 0.238275 0.142449
5.89E-06 0.171314 5.360526
0.50000 0.524365 0.257691 0.142449
5.89E-06 0.020988 5.386927
0.75000 0.524365 0.278827 0.142449
5.89E-06 0.189884 5.389575
1.00000 0.524365 0.297372 0.142449
5.89E-06 0.367529 5.379368

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.304510 -0.306761 -0.143320
-5.91E-06 -0.340591 -3.669018
0.25000 -0.304510 -0.288215 -0.143320
-5.91E-06 -0.163210 -3.641143
0.50000 -0.304510 -0.267081 -0.143320
-5.91E-06 -0.009142 -3.641098
0.75000 -0.304510 -0.247564 -0.143320
-5.91E-06 -0.179960 -3.641295
1.00000 -0.304510 -0.239477 -0.143320
-5.91E-06 -0.355797 -3.669351
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4663

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.659096 0.763835 0.236040
0.000164 0.576481 10.665995
0.25000 0.659096 1.001333 0.236040
0.000164 0.285433 11.364834
0.50000 0.659096 1.564386 0.236040
0.000164 0.040732 11.758350
0.75000 0.659096 2.177332 0.236040
0.000164 0.312875 11.411029
1.00000 0.659096 2.715144 0.236040
0.000164 0.602707 10.758786

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.541532 -2.731463 -0.234605
-0.000165 -0.556628 -7.760155
0.25000 -0.541532 -2.193546 -0.234605
-0.000165 -0.266478 -6.951414
0.50000 -0.541532 -1.580640 -0.234605
-0.000165 -0.016884 -6.948437
0.75000 -0.541532 -1.017561 -0.234605
-0.000165 -0.298135 -6.954272
1.00000 -0.541532 -0.780130 -0.234605
-0.000165 -0.589148 -7.767134

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.663194 1.016112 0.259719
0.000378 0.639475 16.443753
0.25000 0.663194 1.023482 0.259719
0.000378 0.319762 16.244187
0.50000 0.663194 1.040956 0.259719
0.000378 0.059820 16.153149
0.75000 0.663194 1.059979 0.259719
0.000378 0.346558 16.309076
1.00000 0.663194 1.076669 0.259719
0.000378 0.668008 16.573246

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.492919 -1.096216 -0.259685
-0.000491 -0.615615 -8.989276
0.25000 -0.492919 -1.079526 -0.259685
-0.000491 -0.294545 -8.971847
0.50000 -0.492919 -1.060504 -0.259685
-0.000491 -0.022788 -8.979333
0.75000 -0.492919 -1.043029 -0.259685
-0.000491 -0.323438 -8.987155
1.00000 -0.492919 -1.035661 -0.259685
-0.000491 -0.643401 -9.020042

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.708675 6.782921 0.280847
0.000504 0.712702 23.836906
0.25000 0.708675 12.513592 0.280847
0.000504 0.429526 41.582555
0.50000 0.708675 26.099674 0.280847
0.000504 0.088615 50.982469
0.75000 0.708675 40.889624 0.280847
0.000504 0.367533 41.241398
1.00000 0.708675 53.866656 0.280847
0.000504 0.702704 23.991869

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.528902 -53.886626 -0.277265
-0.000598 -0.538013 -39.883587
0.25000 -0.528902 -40.909487 -0.277265
-0.000598 -0.337714 -20.340862
0.50000 -0.528902 -26.120481 -0.277265
-0.000598 -0.037260 -20.239598
0.75000 -0.528902 -12.533768 -0.277265
-0.000598 -0.344896 -20.352746
1.00000 -0.528902 -6.804720 -0.277265
-0.000598 0.689066 -39.937390
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4664

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.116607 0.422225 0.092117
0.000248 0.227422 6.439881
0.25000 0.116607 0.430414 0.092117
0.000248 0.113838 6.442343
0.50000 0.116607 0.449830 0.092117
0.000248 0.023503 6.436704
0.75000 0.116607 0.470966 0.092117
0.000248 0.121463 6.466769
1.00000 0.116607 0.489511 0.092117
0.000248 0.232835 6.489388

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.215068 -0.496826 -0.090195
-0.000249 -0.213217 -3.399614
0.25000 -0.215068 -0.478280 -0.090195
-0.000249 -0.101894 -3.375018
0.50000 -0.215068 -0.457145 -0.090195
-0.000249 -0.008599 -3.378168
0.75000 -0.215068 -0.437729 -0.090195
-0.000249 -0.114757 -3.381621
1.00000 -0.215068 -0.429542 -0.090195
-0.000249 -0.228106 -3.412961

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.244335 9.274312 0.146566
0.000400 0.377500 20.572632
0.25000 0.244335 17.996233 0.146566
0.000400 0.206488 47.251622
0.50000 0.244335 38.673871 0.146566
0.000400 0.078616 62.400555
0.75000 0.244335 61.183763 0.146566
0.000400 0.197838 47.299721
1.00000 0.244335 80.934443 0.146566
0.000400 0.358218 20.667766

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.218860 -80.944995 -0.139072
-0.000400 -0.349428 -52.390702
0.25000 -0.218860 -61.194150 -0.139072
-0.000400 -0.177991 -22.635066
0.50000 -0.218860 -38.685696 -0.139072
-0.000400 -0.035066 -22.468888
0.75000 -0.218860 -18.007097 -0.139072
-0.000400 -0.190134 -22.628910
1.00000 -0.218860 -9.287646 -0.139072
-0.000400 -0.367563 -52.423953

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.527419 8.564824 0.241410
0.000466 0.606928 22.974405
0.25000 0.527419 16.458777 0.241410
0.000466 0.317698 47.141437
0.50000 0.527419 35.113495 0.241410
0.000466 0.088055 60.871627
0.75000 0.527419 55.546533 0.241410
0.000466 0.322979 47.205098
1.00000 0.527419 73.422289 0.241410
0.000466 0.601970 23.101036

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.431667 -73.439184 -0.233978
-0.000468 -0.572244 -50.272320
0.25000 -0.431667 -55.563278 -0.233978
-0.000468 -0.283479 -23.341737
0.50000 -0.431667 -35.191542 -0.233978
-0.000468 -0.038890 -23.191682
0.75000 -0.431667 -16.475953 -0.233978
-0.000468 -0.309646 -23.336854
1.00000 -0.431667 -8.584237 -0.233978
-0.000468 -0.604571 -34.245302
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4665

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.572252 5.914940 0.279961
0.000707 0.716871 24.037992
0.25000 0.572252 10.675143 0.279961
0.000707 0.377460 38.354101
0.50000 0.572252 21.960473 0.279961
0.000707 0.088052 46.487158
0.75000 0.572252 34.245502 0.279961
0.000707 0.359879 38.439633
1.00000 0.572252 45.025223 0.279961
0.000707 0.696252 24.208605

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.532353 -45.046473 -0.277076
-0.000708 -0.684094 -34.791017
0.25000 -0.532353 -34.266963 -0.277076
-0.000708 -0.341720 -18.564999
0.50000 -0.532353 -21.982419 -0.277076
-0.000708 -0.035677 -18.488004
0.75000 -0.532353 -10.696564 -0.277076
-0.000708 -0.335799 -18.589189
1.00000 -0.532353 -5.937709 -0.277076
-0.000708 -0.680267 -34.864363

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.193065 0.587665 0.143985
0.000452 0.379296 9.104954
0.25000 0.193065 0.595854 0.143985
0.000452 0.202127 9.026457
0.50000 0.193065 0.615270 0.143985
0.000452 0.031645 9.000982
0.75000 0.193065 0.636406 0.143985
0.000452 0.167645 9.081742
1.00000 0.193065 0.654951 0.143985
0.000452 0.347111 9.214648

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.327619 -0.668261 -0.145068
-0.000476 -0.370217 -4.165828
0.25000 -0.327619 -0.649716 -0.145068
-0.000476 -0.190949 -3.755901
0.50000 -0.327619 -0.628581 -0.145068
-0.000476 -0.010693 -3.773658
0.75000 -0.327619 -0.609165 -0.145068
-0.000476 -0.152838 -3.792071
1.00000 -0.327619 -0.590977 -0.145068
-0.000476 -0.331566 -3.838224

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.377653 12.889977 0.206810
0.000570 0.557513 25.121535
0.25000 0.377653 25.272649 0.206810
0.000570 0.316473 63.059334
0.50000 0.377653 54.629069 0.206810
0.000570 0.096214 84.590260
0.75000 0.377653 86.586775 0.206810
0.000570 0.252228 63.136483
1.00000 0.377653 114.627178 0.206810
0.000570 0.480502 25.273571

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.408994 -114.642666 -0.198675
-0.000591 -0.529277 -71.555834
0.25000 -0.408994 -86.602030 -0.198675
-0.000591 -0.283928 -29.321642
0.50000 -0.408994 -54.646364 -0.198675
-0.000591 -0.043852 -29.096126
0.75000 -0.408994 -25.288579 -0.198675
-0.000591 -0.240372 -29.333953
1.00000 -0.408994 -12.909415 -0.198675
-0.000591 -0.492498 -71.644983
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.375625	9.864575	0.246456
0.000750	0.648850	27.017744	
0.25000	0.375625	18.790417	0.246456
0.000750	0.355539	54.248156	
0.50000	0.375625	39.951504	0.246456
0.000750	0.100775	69.745052	
0.75000	0.375625	62.987684	0.246456
0.000750	0.307333	54.339652	
1.00000	0.375625	83.200140	0.246456
0.000750	0.593456	27.199354	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.427049	-83.220266	-0.240914
-0.000770	-0.617858	-55.703644	
0.25000	-0.427049	-63.007641	-0.240914
-0.000770	-0.320382	-25.268398	
0.50000	-0.427049	-39.972932	-0.240914
-0.000770	-0.042385	-25.114619	
0.75000	-0.427049	-18.810852	-0.240914
-0.000770	-0.287776	-25.294972	
1.00000	-0.427049	-9.887548	-0.240914
-0.000770	-0.589690	-55.803135	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.501263	8.390977	0.292020
0.000744	0.752367	26.473219	
0.25000	0.501263	15.798468	0.292020
0.000744	0.400826	49.053908	
0.50000	0.501263	33.359898	0.292020
0.000744	0.098860	61.902658	
0.75000	0.501263	52.477455	0.292020
0.000744	0.370253	49.147288	
1.00000	0.501263	69.251624	0.292020
0.000744	0.714205	26.659141	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.572850	-69.274469	-0.286050
-0.000762	-0.716530	-48.673670	
0.25000	-0.572850	-52.500160	-0.286050
-0.000762	-0.363187	-23.416703	
0.50000	-0.572850	-33.383824	-0.286050
-0.000762	-0.041425	-23.289904	
0.75000	-0.572850	-15.821578	-0.286050
-0.000762	-0.349398	-23.440341	
1.00000	-0.572850	-8.416185	-0.286050
-0.000762	-0.708021	-48.759515	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.435067	11.099755	0.210362
0.000944	0.539336	26.870691	
0.25000	0.435067	32.435058	0.210362
0.000944	0.278472	80.707043	
0.50000	0.435067	60.497042	0.210362
0.000944	0.087615	102.110721	
0.75000	0.435067	86.793689	0.210362
0.000944	0.286119	80.717811	
1.00000	0.435067	114.425285	0.210362
0.000944	0.539002	26.893564	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.386623	-114.432655	-0.211634
-0.000956	-0.523865	-76.800494	
0.25000	-0.386623	-86.803471	-0.211634
-0.000956	-0.263594	-28.676980	
0.50000	-0.386623	-60.505888	-0.211634
-0.000956	-0.044471	-27.988698	
0.75000	-0.386623	-32.444417	-0.211634
-0.000956	-0.271436	-28.778592	
1.00000	-0.386623	-11.112983	-0.211634
-0.000956	-0.526814	-76.931275	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.708675	12.889977	0.292020
0.000750	0.752367	27.017744	
0.25000	0.708675	25.272649	0.292020
0.000750	0.400826	63.059334	
0.50000	0.708675	54.629069	0.292020
0.000750	0.100775	84.590260	
0.75000	0.708675	86.586775	0.292020
0.000750	0.370253	63.136483	
1.00000	0.708675	114.627178	0.292020
0.000750	0.714205	27.199354	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.572850	-114.642666	-0.286050
-0.000770	-0.716530	-71.555834	
0.25000	-0.572850	-86.602030	-0.286050
-0.000770	-0.363187	-29.321642	
0.50000	-0.572850	-54.646364	-0.286050
-0.000770	-0.043852	-29.096126	
0.75000	-0.572850	-25.288579	-0.286050
-0.000770	-0.349398	-29.333953	
1.00000	-0.572850	-12.909415	-0.286050
-0.000770	-0.708021	-71.644983	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.708675	12.889977	0.292020
0.000944	0.752367	27.017744	
0.25000	0.708675	32.435058	0.292020
0.000944	0.400826	80.707043	
0.50000	0.708675	60.497042	0.292020
0.000944	0.100775	102.110721	
0.75000	0.708675	86.793689	0.292020
0.000944	0.370253	80.717811	
1.00000	0.708675	114.627178	0.292020
0.000944	0.714205	27.199354	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.572850	-114.642666	-0.286050
-0.000956	-0.716530	-76.800494	
0.25000	-0.572850	-86.803471	-0.286050
-0.000956	-0.363187	-29.321642	
0.50000	-0.572850	-60.505888	-0.286050
-0.000956	-0.044471	-29.096126	
0.75000	-0.572850	-32.444417	-0.286050
-0.000956	-0.349398	-29.333953	
1.00000	-0.572850	-12.909415	-0.286050
-0.000956	-0.708021	-76.931275	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.708675	12.889977	0.292020
0.000944	0.752367	27.017744	
0.250000	0.708675	32.435058	0.292020
0.000944	0.400826	80.707043	
0.50000	0.708675	60.497042	0.292020
0.000944	0.100775	102.110721	
0.75000	0.708675	86.793689	0.292020
0.000944	0.370253	80.717811	
1.00000	0.708675	114.627178	0.292020
0.000944	0.714205	27.199354	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.572850	-114.642666	-0.286050
-0.000956	-0.716530	-76.800494	
0.25000	-0.572850	-86.803471	-0.286050
-0.000956	-0.363187	-29.321642	
0.50000	-0.572850	-60.505888	-0.286050
-0.000956	-0.044471	-29.096126	
0.75000	-0.572850	-32.444417	-0.286050
-0.000956	-0.349398	-29.333953	
1.00000	-0.572850	-12.909415	-0.286050
-0.000956	-0.708021	-76.931275	

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.249228	0.211394	0.118122
0.000378	0.289254	3.882393	
0.25000	0.249228	0.235543	0.118122
0.000378	0.143297	3.776449	
0.50000	0.249228	0.267289	0.118122
0.000378	0.014154	3.649946	
0.75000	0.249228	0.297034	0.118122
0.000378	0.176386	3.486164	
1.00000	0.249228	0.328948	0.118122
0.000378	0.346607	3.300152	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.243864	-0.246597	-0.136193
-4.10E-06	-0.327063	-1.870761	
0.25000	-0.243864	-0.215356	-0.136193
-4.10E-06	-0.158806	-1.928692	
0.50000	-0.243864	-0.185606	-0.136193
-4.10E-06	-0.006630	-2.040368	
0.75000	-0.243864	-0.153861	-0.136193
-4.10E-06	-0.148686	-2.153249	
1.00000	-0.243864	-0.129746	-0.136193
-4.10E-06	-0.294650	-2.319741	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.359618	0.840098	0.194573
0.000726	0.476679	8.493461	
0.25000	0.359618	1.516249	0.194573
0.000726	0.236563	9.754261	
0.50000	0.359618	2.405147	0.194573
0.000726	0.029313	10.094098	
0.75000	0.359618	3.237995	0.194573
0.000726	0.300764	9.186374	
1.00000	0.359618	4.113684	0.194573
0.000726	0.582856	7.374050	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.359016	-3.871658	-0.228773
-9.11E-05	-0.549321	-5.567001	
0.25000	-0.359016	-2.996916	-0.228773
-9.11E-05	-0.267030	-4.459223	
0.50000	-0.359016	-2.161895	-0.228773
-9.11E-05	-0.013032	-4.456328	
0.75000	-0.359016	-1.275075	-0.228773
-9.11E-05	-0.245563	-4.687159	
1.00000	-0.359016	-0.599840	-0.228773
-9.11E-05	-0.485902	-6.419085	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.383706	1.036316	0.209524
0.000932	0.512221	13.909417	
0.25000	0.383706	1.058049	0.209524
0.000932	0.253330	13.101651	
0.50000	0.383706	1.086621	0.209524
0.000932	0.044449	12.509848	
0.75000	0.383706	1.113391	0.209524
0.000932	0.340821	12.242108	
1.00000	0.383706	1.141538	0.209524
0.000932	0.656312	12.210456	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.337350	-0.713260	-0.256146
-0.000326	-0.611750	-4.300146	
0.25000	-0.337350	-0.685143	-0.256146
-0.000326	-0.296049	-4.759823	
0.50000	-0.337350	-0.658368	-0.256146
-0.000326	-0.016280	-5.067871	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.337350	-0.629798	-0.256146
-0.000326	-0.264619	-5.377003	
1.00000	-0.337350	-0.608094	-0.256146
-0.000326	-0.523550	-5.734384	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.411135	7.448518	0.209807
0.00091 7	0.523138	23.934158	
0.25000	0.411135	20.253133	0.209807
0.000917	0.269915	55.938176	
0.50000	0.411135	37.086633	0.209807
0.000917	0.077850	68.166170	
0.75000	0.411135	52.858701	0.209807
0.000917	0.350365	54.873361	
1.00000	0.411135	69.442056	0.209807
0.000917	0.662624	21.943371	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.373841	-68.878335	-0.257496
-0.000585	-0.625864	-49.033611	
0.25000	-0.373841	-52.312895	-0.257496
-0.000585	-0.311186	-20.611046	
0.50000	-0.373841	-36.537571	-0.257496
-0.000585	-0.039071	-20.687063	
0.75000	-0.373841	-19.705531	-0.257496
-0.000585	-0.272292	-21.401762	
1.00000	-0.373841	-6.918269	-0.257496
-0.000585	-0.529644	-50.543451	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.105486	0.447325	0.074037
0.000396	0.180941	5.802481	
0.25000	0.105486	0.471474	0.074037
0.000396	0.089469	5.471156	
0.50000	0.105486	0.503220	0.074037
0.000396	0.018394	5.225333	
0.75000	0.105486	0.532965	0.074037
0.000396	0.123212	5.108679	
1.00000	0.105486	0.564239	0.074037
0.000396	0.237270	5.112646	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.090457	-0.358030	-0.092790
-0.000173	-0.221922	-1.789592	
0.25000	-0.090457	-0.326790	-0.092790
-0.000173	-0.107538	-1.858267	
0.50000	-0.090457	-0.297039	-0.092790
-0.000173	-0.006254	-1.980688	
0.75000	-0.090457	-0.265295	-0.092790
-0.000173	-0.093522	-2.104313	
1.00000	-0.090457	-0.241180	-0.092790
-0.000173	-0.185000	-2.281549	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.180048	9.355346	0.110525
0.000573	0.280421	22.053617	
0.25000	0.180048	26.886984	0.110525
0.000573	0.152133	66.477802	
0.50000	0.180048	49.934831	0.110525
0.000573	0.072515	83.662718	
0.75000	0.180048	71.529401	0.110525
0.000573	0.210263	65.563706	
1.00000	0.180048	94.234759	0.110525
0.000573	0.379691	20.624257	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.122858	-93.751480	-0.143552
-0.000356	-0.350941	-63.730273	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.122858	-71.070650	-0.143552
-0.000356	-0.178230	-24.570825	
0.50000	-0.122858	-49.471621	-0.143552
-0.000356	-0.040985	-24.430617	
0.75000	-0.122858	-26.425773	-0.143552
-0.000356	-0.153431	-25.164869	
1.00000	-0.122858	-8.917895	-0.143552
-0.000356	-0.287391	-64.820376	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.329889	8.618325	0.190228
0.000819	0.474552	23.127699	
0.25000	0.329889	24.461999	0.190228
0.000819	0.246989	63.156858	
0.50000	0.329889	45.290777	0.190228
0.000819	0.071131	78.576688	
0.75000	0.329889	64.806201	0.190228
0.000819	0.328204	62.198135	
1.00000	0.329889	85.325465	0.190228
0.000819	0.611424	21.376824	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.276963	-84.806213	-0.235133
-0.000314	-0.569991	-59.012688	
0.25000	-0.276963	-64.309116	-0.235133
-0.000314	-0.283683	-23.714463	
0.50000	-0.276963	-44.789663	-0.235133
-0.000314	-0.042269	-23.678667	
0.75000	-0.276963	-23.962693	-0.235133
-0.000314	-0.252413	-24.433137	
1.00000	-0.276963	-8.140490	-0.235133
-0.000314	-0.485137	-60.361484	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.374070	6.415683	0.198811
0.000901	0.496395	23.887383	
0.25000	0.374070	16.811509	0.198811
0.000901	0.256731	49.577996	
0.50000	0.374070	30.478311	0.198811
0.000901	0.076155	59.327626	
0.75000	0.374070	43.283356	0.198811
0.000901	0.330202	48.490522	
1.00000	0.374070	56.747071	0.198811
0.000901	0.629017	21.823270	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.356515	-56.132721	-0.245810
-0.000791	-0.598220	-40.753596	
0.25000	-0.356515	-42.683551	-0.245810
-0.000791	-0.298102	-17.761448	
0.50000	-0.356515	-29.875862	-0.245810
-0.000791	-0.035130	-17.906804	
0.75000	-0.356515	-16.210246	-0.245810
-0.000791	-0.254940	-18.570693	
1.00000	-0.356515	-5.828594	-0.245810
-0.000791	-0.499091	-42.313921	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.156690	0.656414	0.079177
0.000275	0.200882	8.628728	
0.25000	0.156690	0.682562	0.079177
0.000275	0.103045	8.185408	
0.50000	0.156690	0.714308	0.079177
0.000275	0.025448	7.855527	
0.75000	0.156690	0.744053	0.079177
0.000275	0.112267	7.735694	
1.00000	0.156690	0.775327	0.079177
0.000275	0.227419	7.743252	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.216777	-0.503721	-0.093202
-0.000810	-0.233467	-1.988585	
0.25000	-0.216777	-0.472481	-0.093202
-0.000810	-0.118299	-2.107890	
0.50000	-0.216777	-0.442730	-0.093202
-0.000810	-0.006951	-2.281064	
0.75000	-0.216777	-0.410986	-0.093202
-0.000810	-0.092937	-2.455448	
1.00000	-0.216777	-0.386871	-0.093202
-0.000810	-0.190763	-2.683443	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.248479	11.340326	0.115601
0.000418	0.303523	26.145016	
0.25000	0.248479	32.687989	0.115601
0.000418	0.170837	80.383679	
0.50000	0.248479	60.751759	0.115601
0.000418	0.084826	101.398884	
0.75000	0.248479	87.045975	0.115601
0.000418	0.195090	79.503352	
1.00000	0.248479	114.692719	0.115601
0.000418	0.359812	24.599024	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.295647	-114.160280	-0.140379
-0.001003	-0.358977	-76.898622	
0.25000	-0.295647	-86.543403	-0.140379
-0.001003	-0.190544	-29.201661	
0.50000	-0.295647	-60.243758	-0.140379
-0.001003	-0.047297	-29.015873	
0.75000	-0.295647	-32.182123	-0.140379
-0.001003	-0.154659	-29.894854	
1.00000	-0.295647	-10.864290	-0.140379
-0.001003	-0.294060	-78.165554	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.288399	8.475934	0.152113
0.000704	0.387581	26.919261	
0.25000	0.288399	23.124270	0.152113
0.000704	0.206673	63.554415	
0.50000	0.288399	42.381603	0.152113
0.000704	0.085147	77.579534	
0.75000	0.288399	60.424670	0.152113
0.000704	0.259049	62.458163	
1.00000	0.288399	79.395841	0.152113
0.000704	0.488626	24.889870	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.288603	-78.727662	-0.191150
-0.001115	-0.473920	-54.965872	
0.25000	-0.288603	-59.776986	-0.191150
-0.001115	-0.241581	-22.040486	
0.50000	-0.288603	-41.730193	-0.191150
-0.001115	-0.040467	-22.455214	
0.75000	-0.288603	-22.474531	-0.191150
-0.001115	-0.196671	-23.231606	
1.00000	-0.288603	-7.846047	-0.191150
-0.001115	-0.382285	-56.528153	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.355351	7.221775	0.197983
0.000863	0.497237	25.462560	
0.25000	0.355351	19.338165	0.197983
0.000863	0.258416	55.570911	
0.50000	0.355351	35.266894	0.197983
0.000863	0.081276	67.037435	
0.75000	0.355351	50.191241	0.197983
0.000863	0.326845	54.448907	
1.00000	0.355351	65.883270	0.197983
0.000863	0.622624	23.351504	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.360406	-65.224338	-0.243868
-0.000954	-0.597668	-46.696604	
0.25000	-0.360406	-49.549261	-0.243868
-0.000954	-0.299664	-19.849545	
0.50000	-0.360406	-34.621833	-0.243868
-0.000954	-0.037985	-19.969402	
0.75000	-0.360406	-18.694486	-0.243868
-0.000954	-0.253585	-20.693612	
1.00000	-0.360406	-6.594516	-0.243868
-0.000954	-0.496283	-48.316912	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.513018	0.332766	0.155675
0.000323	0.374799	5.399621	
0.25000	0.513018	0.340969	0.155675
0.000323	0.183630	5.241247	
0.50000	0.513018	0.360388	0.155675
0.000323	0.019966	5.075386	
0.75000	0.513018	0.381526	0.155675
0.000323	0.244186	4.885314	
1.00000	0.513018	0.400069	0.155675
0.000323	0.470968	4.688103	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.312502	-0.273823	-0.183364
-3.83E-06	-0.435471	-3.703815	
0.25000	-0.312502	-0.255278	-0.183364
-3.83E-06	-0.209380	-3.641541	
0.50000	-0.312502	-0.234146	-0.183364
-3.83E-06	-0.010314	-3.607108	
0.75000	-0.312502	-0.214730	-0.183364
-3.83E-06	-0.201260	-3.573016	
1.00000	-0.312502	-0.206550	-0.183364
-3.83E-06	-0.394457	-3.566688	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.645425	0.957021	0.256550
0.000607	0.618433	10.799322	
0.25000	0.645425	1.194896	0.256550
0.000607	0.303848	11.118094	
0.50000	0.645425	1.758044	0.256550
0.000607	0.038820	11.176188	
0.75000	0.645425	2.371047	0.256550
0.000607	0.406956	10.477714	
1.00000	0.645425	2.908799	0.256550
0.000607	0.781705	9.478831	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.547239	-2.631536	-0.303211
-8.75E-05	-0.717934	-7.823524	
0.25000	-0.547239	-2.093736	-0.303211
-8.75E-05	-0.345243	-6.962420	
0.50000	-0.547239	-1.480929	-0.303211
-8.75E-05	-0.018916	-6.908522	
0.75000	-0.547239	-0.917847	-0.303211
-8.75E-05	-0.333317	-6.863389	
1.00000	-0.547239	-0.680635	-0.303211
-8.75E-05	-0.651538	-7.624807	

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.654750 1.313964 0.274516
0.000782 0.662577 16.639349
0.25000 0.654750 1.321746 0.274516
0.000782 0.327005 15.904833
0.50000 0.654750 1.338823 0.274516
0.000782 0.056979 15.288359
0.75000 0.654750 1.357847 0.274516
0.000782 0.463145 14.910813
1.00000 0.654750 1.374536 0.274516
0.000782 0.880361 14.656347
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.496774 -0.913919 -0.337862
-0.000296 -0.795606 -9.078618
0.25000 -0.496774 -0.897228 -0.337862
-0.000296 -0.381179 -9.007730
0.50000 -0.496774 -0.878210 -0.337862
-0.000296 -0.025440 -8.961839
0.75000 -0.496774 -0.860735 -0.337862
-0.000296 -0.360222 -8.916340
1.00000 -0.496774 -0.853373 -0.337862
-0.000296 -0.699338 -8.895883

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.700959 7.126659 0.263504
0.000769 0.652263 24.048439
0.25000 0.700959 12.866428 0.263504
0.000769 0.336412 40.770726
0.50000 0.700959 26.454784 0.263504
0.000769 0.085481 49.986088
0.75000 0.700959 41.246139 0.263504
0.000769 0.457812 39.638083
1.00000 0.700959 54.221723 0.263504
0.000769 0.860563 21.822304

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.526587 -53.632575 -0.332459
-0.000512 -0.803370 -39.960003
0.25000 -0.526587 -40.655644 -0.332459
-0.000512 -0.395710 -20.403739
0.50000 -0.526587 -25.869219 -0.332459
-0.000512 -0.040049 -20.324975
0.75000 -0.526587 -12.282438 -0.332459
-0.000512 -0.346433 -20.456806
1.00000 -0.526587 -6.558690 -0.332459
-0.000512 -0.669141 -40.052197

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.114993 0.538103 0.097670
0.000321 0.235390 6.514588
0.25000 0.114993 0.546306 0.097670
0.000321 0.115933 6.295704
0.50000 0.114993 0.565725 0.097670
0.000321 0.022506 6.104181
0.75000 0.114993 0.586863 0.097670
0.000321 0.164493 5.935400
1.00000 0.114993 0.605406 0.097670
0.000321 0.311814 5.758198

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.210313 -0.416558 -0.119450
-0.000162 -0.279586 -3.434167
0.25000 -0.210313 -0.398013 -0.119450
-0.000162 -0.133685 -3.393175
0.50000 -0.210313 -0.376882 -0.119450
-0.000162 -0.009524 -3.380038
0.75000 -0.210313 -0.357465 -0.119450
-0.000162 -0.128088 -3.367221
1.00000 -0.210313 -0.349285 -0.119450
-0.000162 -0.248557 -3.382207

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.245847 9.509928 0.134856
0.000463 0.335149 20.717592
0.25000 0.245847 18.245696 0.134856
0.000463 0.181707 46.974650
0.50000 0.245847 38.926796 0.134856
0.000463 0.076521 61.714500
0.75000 0.245847 61.438826 0.134856
0.000463 0.269151 46.203424
1.00000 0.245847 81.187303 0.134856
0.000463 0.479652 19.197935
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.213402 -80.724078 -0.179678
-0.000312 -0.437209 -52.424211
0.25000 -0.213402 -60.973855 -0.179678
-0.000312 -0.218717 -22.688647
0.50000 -0.213402 -38.469024 -0.179678
-0.000312 -0.036974 -22.597288
0.75000 -0.213402 -17.790321 -0.179678
-0.000312 -0.194445 -22.826225
1.00000 -0.213402 -9.078937 -0.179678
-0.000312 -0.358795 -52.678439

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.521611 8.862983 0.240872
0.000670 0.589464 23.163022
0.25000 0.521611 16.769468 0.240872
0.000670 0.305067 46.784561
0.50000 0.521611 35.487320 0.240872
0.000670 0.085080 59.995510
0.75000 0.521611 55.862292 0.240872
0.000670 0.443166 45.813430
1.00000 0.521611 73.736055 0.240872
0.000670 0.793013 21.223614

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.430248 -73.206772 -0.302080
-0.000274 -0.725962 -50.330548
0.25000 -0.430248 -55.331430 -0.302080
-0.000274 -0.357102 -23.392113
0.50000 -0.430248 -34.962973 -0.302080
-0.000274 -0.041598 -23.358083
0.75000 -0.430248 -16.247291 -0.302080
-0.000274 -0.330223 -23.585239
1.00000 -0.430248 -8.362874 -0.302080
-0.000274 -0.626925 -50.623497

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.569143 6.277292 0.247826
0.000743 0.620637 24.251668
0.25000 0.569143 11.045053 0.247826
0.000743 0.322892 37.938034
0.50000 0.569143 22.332273 0.247826
0.000743 0.084556 45.443963
0.75000 0.569143 34.618769 0.247826
0.000743 0.427079 36.770074
1.00000 0.569143 45.396987 0.247826
0.000743 0.811052 21.943666

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.523604 -44.767790 -0.315575
-0.000679 -0.767186 -34.876662
0.25000 -0.523604 -33.988619 -0.315575
-0.000679 -0.380141 -18.642556
0.50000 -0.523604 -21.706053 -0.315575
-0.000679 -0.038254 -18.653325
0.75000 -0.523604 -10.420141 -0.315575
-0.000679 -0.316402 -18.815160
1.00000 -0.523604 -5.655686 -0.315575
-0.000679 -0.620979 -35.144513

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.198202 0.753114 0.094697
0.000240 0.254861 9.182685
0.25000 0.198202 0.761317 0.094697
0.000240 0.137933 8.826371
0.50000 0.198202 0.780736 0.094697
0.000240 0.030199 8.519502
0.75000 0.198202 0.801874 0.094697
0.000240 0.137302 8.317752
1.00000 0.198202 0.820417 0.094697
0.000240 0.285577 8.167081
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.316920 -0.531290 -0.119591
-0.000711 -0.306370 -3.806286
0.25000 -0.316920 -0.512745 -0.119591
-0.000711 -0.157764 -3.816499
0.50000 -0.316920 -0.491614 -0.119591
-0.000711 -0.011364 -3.854500
0.75000 -0.316920 -0.472197 -0.119591
-0.000711 -0.095829 -3.892618
1.00000 -0.316920 -0.464017 -0.119591
-0.000711 -0.212635 -3.958774

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.382774 13.159147 0.130804
0.000331 0.338468 25.254186
0.25000 0.382774 25.561477 0.130804
0.000331 0.212052 62.734428
0.50000 0.382774 54.922814 0.130804
0.000331 0.093894 83.800303
0.75000 0.382774 86.883555 0.130804
0.000331 0.234664 61.889923
1.00000 0.382774 114.928829 0.130804
0.000331 0.436908 23.622116

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.396756 -114.368284 -0.175577
-0.000828 -0.465449 -71.576911
0.25000 -0.396756 -86.328531 -0.175577
-0.000828 -0.249969 -29.417067
0.50000 -0.396756 -54.378011 -0.175577
-0.000828 -0.045288 -29.370114
0.75000 -0.396756 -25.020078 -0.175577
-0.000828 -0.161590 -29.764083
1.00000 -0.396756 -12.652365 -0.175577
-0.000828 -0.320270 -72.170558

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.382284 10.218071 0.182095
0.000554 0.474966 27.208103
0.25000 0.382284 19.158084 0.182095
0.000554 0.263355 53.836432
0.50000 0.382284 40.322714 0.182095
0.000554 0.097755 68.727665
0.75000 0.382284 63.361081 0.182095
0.000554 0.327208 52.713459
1.00000 0.382284 83.571284 0.182095
0.000554 0.615325 25.005192

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.412046 -82.899191 -0.241890
-0.000931 -0.608936 -55.761557
0.25000 -0.412046 -62.687202 -0.241890
-0.000931 -0.312565 -25.373759
0.50000 -0.412046 -39.656202 -0.241890
-0.000931 -0.044519 -25.323468
0.75000 -0.412046 -18.494026 -0.241890
-0.000931 -0.227561 -25.600708
1.00000 -0.412046 -9.578966 -0.241890
-0.000931 -0.450040 -56.193904

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.502296 8.758685 0.246119
0.000690 0.624054 26.681755
0.25000 0.502296 16.177936 0.246119
0.000690 0.331226 48.612504
0.50000 0.502296 33.742307 0.246119
0.000690 0.095411 60.829450
0.75000 0.502296 52.861679 0.246119
0.000690 0.421708 47.444091
1.00000 0.502296 69.633977 0.246119
0.000690 0.798872 24.353495
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.559936 -68.964625 -0.312490
-0.000797 -0.769906 -48.746147
0.25000 -0.559936 -52.190844 -0.312490
-0.000797 -0.386684 -23.546633
0.50000 -0.559936 -33.077587 -0.312490
-0.000797 -0.043870 -23.544589
0.75000 -0.559936 -15.515252 -0.312490
-0.000797 -0.312385 -23.790989
1.00000 -0.559936 -8.116709 -0.312490
-0.000797 -0.614612 -49.191289

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.411135 11.340926 0.209807
0.000932 0.523138 26.919261
0.25000 0.411135 32.687989 0.209807
0.000932 0.269915 80.383679
0.50000 0.411135 60.751759 0.209807
0.000932 0.085147 101.398884
0.75000 0.411135 87.045975 0.209807
0.000932 0.350365 79.503352
1.00000 0.411135 114.692719 0.209807
0.000932 0.662624 24.889870

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.373841 -114.160280 -0.257496
-0.001115 -0.636864 -76.898622
0.25000 -0.373841 -86.543403 -0.257496
-0.001115 -0.311186 -29.201661
0.50000 -0.373841 -60.243758 -0.257496
-0.001115 -0.047297 -29.015873
0.75000 -0.373841 -32.182423 -0.257496
-0.001115 -0.272292 -29.894854
1.00000 -0.373841 -10.864280 -0.257496
-0.001115 -0.529644 -78.165554

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.700959 13.159147 0.274516
0.000782 0.662577 27.208103
0.25000 0.700959 25.561477 0.274516
0.000782 0.336412 62.734428
0.50000 0.700959 54.922814 0.274516
0.000782 0.097755 83.800303
0.75000 0.700959 86.883555 0.274516
0.000782 0.463145 61.889923
1.00000 0.700959 114.928829 0.274516
0.000782 0.880361 25.005192

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.559936 -114.368284 -0.337862
-0.000931 -0.803370 -71.576911
0.25000 -0.559936 -86.328531 -0.337862
-0.000931 -0.395710 -29.417067
0.50000 -0.559936 -54.378011 -0.337862
-0.000931 -0.045288 -29.370114
0.75000 -0.559936 -25.020078 -0.337862
-0.000931 -0.360222 -29.764083
1.00000 -0.559936 -12.652365 -0.337862
-0.000931 -0.699338 -72.170558

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.700959 13.159147 0.274516
0.000932 0.662577 27.208103
0.25000 0.700959 32.687989 0.274516
0.000932 0.336412 80.383679
0.50000 0.700959 60.751759 0.274516
0.000932 0.097755 101.398884
0.75000 0.700959 87.045975 0.274516
0.000932 0.463145 79.503352
1.00000 0.700959 114.920829 0.274516
0.000932 0.880361 25.005192
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.559936 -114.368284 -0.337862
-0.001115 -0.803370 -76.898622
0.25000 -0.559936 -86.543403 -0.337862
-0.001115 -0.395710 -29.417067
0.50000 -0.559936 -60.243758 -0.337862
-0.001115 -0.047297 -29.370114
0.75000 -0.559936 -32.182423 -0.337862
-0.001115 -0.360222 -29.894854
1.00000 -0.559936 -12.652365 -0.337862
-0.001115 -0.699338 -78.165554

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.700959 13.159147 0.274516
0.000932 0.662577 27.208103
0.25000 0.700959 32.687989 0.274516
0.000932 0.336412 80.383679
0.50000 0.700959 60.751759 0.274516
0.000932 0.097755 101.398884
0.75000 0.700959 87.045975 0.274516
0.000932 0.463145 79.503352
1.00000 0.700959 114.920829 0.274516
0.000932 0.880361 25.005192

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.559936 -114.368284 -0.337862
-0.001115 -0.803370 -76.898622
0.25000 -0.559936 -86.543403 -0.337862
-0.001115 -0.395710 -29.417067
0.50000 -0.559936 -60.243758 -0.337862
-0.001115 -0.047297 -29.370114
0.75000 -0.559936 -32.182423 -0.337862
-0.001115 -0.360222 -29.894854
1.00000 -0.559936 -12.652365 -0.337862
-0.001115 -0.699338 -78.165554

ELEM 456 ========== LENGTH
= 4.943104

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.232732 0.372891 0.121729
0.000591 0.300065 3.317743
0.25000 0.232732 0.397058 0.121729
0.000591 0.149647 2.962238
0.50000 0.232732 0.428824 0.121729
0.000591 0.009527 2.580668
0.75000 0.232732 0.450575 0.121729
0.000591 0.198992 2.166133
1.00000 0.232732 0.489877 0.121729
0.000591 0.392109 1.737898

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.243217 -0.249128 -0.156387
-4.01E-07 -0.380977 -2.321248
0.25000 -0.243217 -0.217944 -0.156387
-4.01E-07 -0.187748 -2.191164
0.50000 -0.243217 -0.188173 -0.156387
-4.01E-07 -0.007170 -2.114838
0.75000 -0.243217 -0.156416 -0.156387
-4.01E-07 -0.151255 -2.039576
1.00000 -0.243217 -0.132381 -0.156387
-4.01E-07 -0.301684 -2.018877

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.328738 1.171125 0.200615
0.001065 0.494717 7.406359
0.25000 0.328738 1.847802 0.200615
0.001065 0.247098 8.175722
0.50000 0.328738 2.737262 0.200615
0.001065 0.020824 8.005593
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 0.328738 3.570294 0.200615
0.001065 0.336337 6.554340
1.00000 0.328738 4.446739 0.200615
0.001065 0.661589 4.275855

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.359141 -3.807013 -0.263473
-4.01E-07 -0.641786 -6.421564
0.25000 -0.359141 -2.933858 -0.263473
-4.01E-07 -0.316484 -4.785865
0.50000 -0.359141 -2.100264 -0.263473
-4.01E-07 -0.013837 -4.655382
0.75000 -0.359141 -1.211076 -0.263473
-4.01E-07 -0.249924 -4.554118
1.00000 -0.359141 -0.538095 -0.263473
-4.01E-07 -0.497842 -5.967581

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.358770 1.521332 0.217499
0.001242 0.535962 12.267904
0.25000 0.358770 1.543083 0.217499
0.001242 0.267114 10.687478
0.50000 0.358770 1.571672 0.217499
0.001242 0.032081 9.279210
0.75000 0.358770 1.598448 0.217499
0.001242 0.392783 8.140758
1.00000 0.358770 1.626620 0.217499
0.001242 0.769073 7.277601

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.334012 -0.407823 -0.304887
-0.000193 -0.738691 -5.739539
0.25000 -0.334012 -0.379757 -0.304887
-0.000193 -0.362236 -5.551307
0.50000 -0.334012 -0.352963 -0.304887
-0.000193 -0.017359 -5.411457
0.75000 -0.334012 -0.334012 -0.304887
-0.000193 -0.270410 -5.272547
1.00000 -0.334012 -0.302751 -0.304887
-0.000193 -0.539210 -5.182719

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.388333 8.027797 0.208746
0.001094 0.519409 22.013641
0.25000 0.388333 20.842372 0.208746
0.001094 0.267118 53.097627
0.50000 0.388333 37.686525 0.208746
0.001094 0.063618 64.359126
0.75000 0.388333 53.462071 0.208746
0.001094 0.396320 49.795925
1.00000 0.388333 70.059750 0.208746
0.001094 0.767069 16.050278

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.355372 -68.371996 -0.302484
-0.000552 -0.743467 -50.529575
0.25000 -0.355372 -51.836627 -0.302484
-0.000552 -0.372400 -21.772992
0.50000 -0.355372 -36.050439 -0.302484
-0.000552 -0.041435 -21.435438
0.75000 -0.355372 -19.211439 -0.302484
-0.000552 -0.271535 -21.694213
1.00000 -0.355372 -6.466852 -0.302484
-0.000552 -0.529488 -50.629708

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.091235 0.648895 0.076939
0.000504 0.189624 5.192377
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 0.091235 0.673062 0.076939
0.000504 0.094530 4.493113
0.50000 0.091235 0.704828 0.076939
0.000504 0.013583 3.909451
0.75000 0.091235 0.734580 0.076939
0.000504 0.141239 3.408754
1.00000 0.091235 0.765881 0.076939
0.000504 0.276400 3.047885

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.091739 -0.241698 -0.109540
-4.41E-06 -0.265516 -2.283923
0.25000 -0.091739 -0.210514 -0.109540
-4.41E-06 -0.130341 -2.183521
0.50000 -0.091739 -0.180743 -0.109540
-4.41E-06 -0.006597 -2.136877
0.75000 -0.091739 -0.148986 -0.109540
-4.41E-06 -0.095621 -2.091277
1.00000 -0.091739 -0.124951 -0.109540
-4.41E-06 -0.190727 -2.099758

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.168562 9.778851 0.108553
0.000664 0.273071 20.686047
0.25000 0.168562 27.324256 0.108553
0.000664 0.146693 64.452913
0.50000 0.168562 50.386689 0.108553
0.000664 0.062770 80.956062
0.75000 0.168562 71.986021 0.108553
0.000664 0.249699 61.873986
1.00000 0.168562 94.710991 0.108553
0.000664 0.471114 16.350593

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.120253 -93.292786 -0.182451
-0.000181 -0.451732 -64.797765
0.25000 -0.120253 -70.653129 -0.182451
-0.000181 -0.229879 -25.470085
0.50000 -0.120253 -49.039225 -0.182451
-0.000181 -0.043221 -25.170507
0.75000 -0.120253 -25.983848 -0.182451
-0.000181 -0.152677 -25.628528
1.00000 -0.120253 -8.534399 -0.182451
-0.000181 -0.286843 -65.349255

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.310793 9.133817 0.191347
0.001078 0.476618 21.446867
0.25000 0.310793 24.989816 0.191347
0.001078 0.247158 60.670424
0.50000 0.310793 45.831775 0.191347
0.001078 0.064637 75.250541
0.75000 0.310793 65.351502 0.191347
0.001078 0.379719 57.677644
1.00000 0.310793 85.888489 0.191347
0.001078 0.729256 16.207432

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.273092 -84.405950 -0.285852
-0.000163 -0.702850 -60.342533
0.25000 -0.273092 -63.946062 -0.285852
-0.000163 -0.352875 -24.744814
0.50000 -0.273092 -44.413166 -0.285852
-0.000163 -0.044620 -24.417532
0.75000 -0.273092 -23.577583 -0.285852
-0.000163 -0.253816 -24.774907
1.00000 -0.273092 -7.881857 -0.285852
-0.000163 -0.490307 -60.614903
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4680

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.357354 7.030647 0.195661
0.000888 0.487102 21.885611
0.25000 0.357354 17.434560 0.195661
0.000888 0.249906 46.591664
0.50000 0.357354 31.110911 0.195661
0.000888 0.061429 55.297100
0.75000 0.357354 43.917879 0.195661
0.000888 0.368924 43.150907
1.00000 0.357354 57.393223 0.195661
0.000888 0.716341 15.547095

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.326233 -55.540246 -0.283156
-0.000804 -0.696010 -42.304176
0.25000 -0.326233 -42.115491 -0.283156
-0.000804 -0.348248 -18.915386
0.50000 -0.326233 -29.298982 -0.283156
-0.000804 -0.037263 -18.669294
0.75000 -0.326233 -15.627714 -0.283156
-0.000804 -0.252161 -18.872438
1.00000 -0.326233 -5.280624 -0.283156
-0.000804 -0.493977 -42.357533

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.156320 0.939899 0.071231
7.07E-06 0.178155 7.737666
0.25000 0.156320 0.964066 0.071231
7.07E-06 0.090141 6.818937
0.50000 0.156320 0.995833 0.071231
7.07E-06 0.018927 5.963058
0.75000 0.156320 1.025584 0.071231
7.07E-06 0.107508 5.273447
1.00000 0.156320 1.056885 0.071231
7.07E-06 0.216324 4.748588

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.174196 -0.249866 -0.088057
-0.001017 -0.219003 -2.686143
0.25000 -0.174196 -0.218682 -0.088057
-0.001017 -0.110171 -2.619163
0.50000 -0.174196 -0.188910 -0.088057
-0.001017 -0.007590 -2.605941
0.75000 -0.174196 -0.157154 -0.088057
-0.001017 -0.785954 -2.593764
1.00000 -0.174196 -0.133119 -0.088057
-0.001017 -0.173980 -2.635671

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.246224 11.836920 0.099465
8.80E-05 0.254905 24.631291
0.25000 0.246224 33.200588 0.099465
8.80E-05 0.141446 78.089158
0.50000 0.246224 61.282119 0.099465
8.80E-05 0.073876 98.280263
0.75000 0.246224 87.582132 0.099465
8.80E-05 0.204100 75.092338
1.00000 0.246224 115.252756 0.099465
8.80E-05 0.386620 19.628831

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.246820 -113.600708 -0.151421
-0.001238 -0.386667 -78.137127
0.25000 -0.246820 -86.033963 -0.151421
-0.001238 -0.203675 -30.306482
0.50000 -0.246820 -59.716207 -0.151421
-0.001238 -0.050135 -29.997659
0.75000 -0.246820 -31.643268 -0.151421
-0.001238 -0.142252 -30.611311
1.00000 -0.246820 -10.396281 -0.151421
-0.001238 -0.265168 -79.032472
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4681

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.283713 9.107066 0.141718
0.000460 0.356543 24.938429
0.25000 0.283713 23.766796 0.141718
0.000460 0.187899 60.560340
0.50000 0.283713 43.036316 0.141718
0.000460 0.070828 73.504502
0.75000 0.283713 61.083362 0.141718
0.000460 0.284046 56.932438
1.00000 0.283713 80.070919 0.141718
0.000460 0.546817 18.439353

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.241733 -78.051119 -0.215321
-0.001218 -0.535098 -56.511692
0.25000 -0.241733 -59.134844 -0.215321
-0.001218 -0.271943 -23.647969
0.50000 -0.241733 -41.075623 -0.215321
-0.001218 -0.042978 -23.393678
0.75000 -0.241733 -21.811998 -0.215321
-0.001218 -0.188319 -23.772388
1.00000 -0.241733 -7.232335 -0.215321
-0.001218 -0.363492 -56.956550

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.341271 7.871943 0.191773
0.000770 0.476675 23.403563
0.25000 0.341271 19.907758 0.191773
0.000770 0.247060 52.486230
0.50000 0.341271 35.936568 0.191773
0.000770 0.066222 62.856602
0.75000 0.341271 50.864205 0.191773
0.000770 0.360573 48.857741
1.00000 0.341271 66.569789 0.191773
0.000770 0.699583 16.795298

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.320986 -64.642480 -0.276634
-0.001014 -0.682406 -48.324814
0.25000 -0.320986 -48.995857 -0.276634
-0.001014 -0.343085 -21.077727
0.50000 -0.320986 -34.058149 -0.276634
-0.001014 -0.040321 -20.823574
0.75000 -0.320986 -18.124215 -0.276634
-0.001014 -0.248390 -21.093009
1.00000 -0.320986 -6.064681 -0.276634
-0.001014 -0.485390 -48.497572

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.484943 0.495184 0.177552
0.000578 0.430684 4.723546
0.25000 0.484943 0.503395 0.177552
0.000578 0.211131 4.207851
0.50000 0.484943 0.522829 0.177552
0.000578 0.013605 3.686230
0.75000 0.484943 0.543980 0.177552
0.000578 0.288153 3.141977
1.00000 0.484943 0.562532 0.177552
0.000578 0.565305 2.589687

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.317821 -0.295508 -0.223943
-2.25E-07 -0.540539 -3.608942
0.25000 -0.317821 -0.276960 -0.223943
-2.25E-07 -0.263194 -3.308084
0.50000 -0.317821 -0.255814 -0.223943
-2.25E-07 -0.009506 -3.035107
0.75000 -0.317821 -0.236404 -0.223943
-2.25E-07 -0.227539 -2.762292
1.00000 -0.317821 -0.228263 -0.223943
-2.25E-07 -0.446993 -2.517659
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4682

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.614235 1.253243 0.293438
0.001007 0.711145 5.544448
0.25000 0.614235 1.491372 0.293438
0.001007 0.348531 9.163005
0.50000 0.614235 2.054950 0.293438
0.001007 0.027445 8.508763
0.75000 0.614235 2.668338 0.293438
0.001007 0.487109 7.103718
1.00000 0.614235 3.206327 0.293438
0.001007 0.952389 5.419479

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.540416 -2.577796 -0.376221
-2.25E-07 -0.906194 -7.695102
0.25000 -0.540416 -2.039904 -0.376221
-2.25E-07 -0.440231 -6.416904
0.50000 -0.540416 -1.426678 -0.376221
-2.25E-07 -0.017225 -5.947268
0.75000 -0.540416 -0.863770 -0.376221
-2.25E-07 -0.537393 -5.487788
1.00000 -0.540416 -0.627695 -0.376221
-2.25E-07 -0.739875 -5.833551

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.627672 1.704516 0.324440
0.001141 0.782079 14.755129
0.25000 0.627672 1.711906 0.324440
0.001141 0.380026 12.990400
0.50000 0.627672 1.729397 0.324440
0.001141 0.040696 11.286270
0.75000 0.627672 1.748433 0.324440
0.001141 0.574667 9.816280
1.00000 0.627672 1.765129 0.324440
0.001141 1.118104 8.476728

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.487938 -0.624306 -0.438932
-0.000187 -1.049402 -8.973682
0.25000 -0.487938 -0.607612 -0.438932
-0.000187 -0.505847 -8.341370
0.50000 -0.487938 -0.588581 -0.438932
-0.000187 -0.023246 -7.734141
0.75000 -0.487938 -0.571112 -0.438932
-0.000187 -0.420722 -7.127153
1.00000 -0.487938 -0.563785 -0.438932
-0.000187 -0.821665 -6.545831

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.673924 7.523487 0.299883
0.001011 0.721244 21.913836
0.25000 0.673924 13.269372 0.299883
0.001011 0.358654 37.465107
0.50000 0.673924 26.868114 0.299883
0.001011 0.067159 45.436459
0.75000 0.673924 41.668746 0.299883
0.001011 0.568417 33.770572
1.00000 0.673924 54.650048 0.299883
0.001011 1.088066 14.847512

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.509334 -53.180686 -0.424992
-0.000499 -1.022727 -40.304085
0.25000 -0.509334 -40.201739 -0.424992
-0.000499 -0.498743 -19.966287
0.50000 -0.509334 -25.405019 -0.424992
-0.000499 -0.038574 -19.346766
0.75000 -0.509334 -11.822643 -0.424992
-0.000499 -0.401750 -18.826881
1.00000 -0.509334 -6.126111 -0.424992
-0.000499 -0.772371 -38.025875
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4683

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.112055 0.691057 0.114597
0.000428 0.276183 5.795523
0.25000 0.112055 0.699269 0.114597
0.000428 0.133989 5.148292
0.50000 0.112055 0.718702 0.114597
0.000428 0.016229 4.519089
0.75000 0.112055 0.739854 0.114597
0.000428 0.206168 3.914591
1.00000 0.112055 0.758405 0.114597
0.000428 0.400307 3.312311

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.195804 -0.283703 -0.156808
-2.25E-06 -0.357470 -3.410542
0.25000 -0.195804 -0.265155 -0.156808
-2.25E-06 -0.180085 -3.163859
0.50000 -0.195804 -0.244009 -0.156808
-2.25E-06 -0.008491 -2.945112
0.75000 -0.195804 -0.224599 -0.156808
-2.25E-06 -0.148671 -2.726450
1.00000 -0.195804 -0.214658 -0.156808
-2.25E-06 -0.290276 -2.536099

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.240555 9.732597 0.163318
0.000557 0.389864 19.268792
0.25000 0.240555 18.477673 0.163318
0.000557 0.199441 44.714138
0.50000 0.240555 39.174580 0.163318
0.000557 0.064129 58.572631
0.75000 0.240555 61.700729 0.163318
0.000557 0.350580 42.092711
1.00000 0.240555 81.457909 0.163318
0.000557 0.653073 14.420208

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.197945 -80.291292 -0.252018
-0.000186 -0.608805 -52.689688
0.25000 -0.197945 -60.537698 -0.252018
-0.000186 -0.300021 -22.608870
0.50000 -0.197945 -38.017502 -0.252018
-0.000186 -0.036469 -22.218863
0.75000 -0.197945 -17.345503 -0.252018
-0.000186 -0.232617 -21.980507
1.00000 -0.197945 -8.675541 -0.252018
-0.000186 -0.434836 -51.753918

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.506166 9.203675 0.283279
0.000949 0.681504 21.315991
0.25000 0.506166 17.118585 0.283279
0.000949 0.349172 43.901614
0.50000 0.506166 35.850744 0.283279
0.000949 0.068956 56.007766
0.75000 0.506166 56.238495 0.283279
0.000949 0.539011 40.652796
1.00000 0.506166 74.120134 0.283279
0.000949 1.025524 15.169694

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.415586 -72.832817 -0.399913
-0.000168 -0.965304 -50.659503
0.25000 -0.415586 -54.954423 -0.399913
-0.000168 -0.473120 -23.243858
0.50000 -0.415586 -34.572060 -0.399913
-0.000168 -0.040372 -22.700544
0.75000 -0.415586 -15.862446 -0.399913
-0.000168 -0.384129 -22.294457
1.00000 -0.415586 -8.015519 -0.399913
-0.000168 -0.749172 -49.051092
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4684

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.555759 6.694324 0.271968
0.000786 0.654298 22.022195
0.25000 0.555759 11.467165 0.271968
0.000786 0.324773 34.472631
0.50000 0.555759 22.763012 0.271968
0.000786 0.095799 47.164752
0.75000 0.555759 35.057214 0.271968
0.000786 0.529192 30.594634
1.00000 0.555759 45.840182 0.271968
0.000786 1.013057 14.570136

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.495004 -44.233133 -0.395083
-0.000735 -0.948517 -35.166737
0.25000 -0.495004 -33.452122 -0.395083
-0.000735 -0.462147 -18.382354
0.50000 -0.495004 -21.161171 -0.395083
-0.000735 -0.036648 -17.802586
0.75000 -0.495004 -9.878918 -0.395083
-0.000735 -0.363939 -17.305577
1.00000 -0.495004 -5.147072 -0.395083
-0.000735 -0.700452 -33.188073

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.199256 0.949245 0.070426
6.86E-06 0.173058 8.150879
0.25000 0.199256 0.957456 0.070426
6.86E-06 0.087492 7.205069
0.50000 0.199256 0.976890 0.070426
6.86E-06 0.021928 6.296541
0.75000 0.199256 0.998041 0.070426
6.86E-06 0.148149 5.471052
1.00000 0.199256 1.016592 0.070426
6.86E-06 0.286140 4.704680

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.286487 -0.249544 -0.112159
-0.000945 -0.270587 -3.935687
0.25000 -0.286487 -0.230996 -0.112159
-0.000945 -0.133745 -3.722389
0.50000 -0.286487 -0.209851 -0.112159
-0.000945 -0.010758 -3.540138
0.75000 -0.286487 -0.190440 -0.112159
-0.000945 -0.090370 -3.352445
1.00000 -0.286487 -0.182300 -0.112159
-0.000945 -0.177312 -3.194734

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.378257 13.392917 0.108147
6.62E-05 0.260776 23.626401
0.25000 0.378257 25.808462 0.108147
6.62E-05 0.147068 60.194438
0.50000 0.378257 55.192240 0.108147
6.62E-05 0.080388 80.277149
0.75000 0.378257 87.173027 0.108147
6.62E-05 0.276013 57.253519
1.00000 0.378257 115.222657 0.108147
6.62E-05 0.498129 18.300028

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.362979 -113.821899 -0.191420
-0.001115 -0.474877 -72.112995
0.25000 -0.362979 -85.777358 -0.191420
-0.001115 -0.243823 -29.690227
0.50000 -0.362979 -53.805025 -0.191420
-0.001115 -0.045740 -29.380193
0.75000 -0.362979 -24.456609 -0.191420
-0.001115 -0.166807 -29.276390
1.00000 -0.362979 -12.147705 -0.191420
-0.001115 -0.300136 -71.784446
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4685

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.380682 10.565595 0.178481
0.000361 0.428813 25.045493
0.25000 0.380682 19.515134 0.178481
0.000361 0.221502 50.459431
0.50000 0.380682 40.695940 0.178481
0.000361 0.079872 64.046340
0.75000 0.380682 63.748757 0.178481
0.000361 0.401495 46.640826
1.00000 0.380682 83.967866 0.178481
0.000361 0.750090 17.839713

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.374108 -82.223629 -0.289868
-0.001119 -0.701643 -56.168962
0.25000 -0.374108 -62.008190 -0.289868
-0.001119 -0.347885 -25.305773
0.50000 -0.374108 -38.961466 -0.289868
-0.001119 -0.043907 -24.827585
0.75000 -0.374108 -17.806150 -0.289868
-0.001119 -0.252370 -24.504734
1.00000 -0.374108 -8.933481 -0.289868
-0.001119 -0.473232 -54.894661

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.494904 9.165371 0.256408
0.000671 0.618353 24.411646
0.25000 0.494904 16.592527 0.256408
0.000671 0.312784 45.065327
0.50000 0.494904 34.170323 0.256408
0.000671 0.076374 55.918605
0.75000 0.494904 53.301686 0.256408
0.000671 0.513630 41.095336
1.00000 0.494904 70.081375 0.256408
0.000671 0.975236 16.829896

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.520640 -68.384178 -0.379810
-0.000932 -0.917267 -49.193183
0.25000 -0.520640 -51.607533 -0.379810
-0.000932 -0.451307 -23.416493
0.50000 -0.520640 -32.481226 -0.379810
-0.000932 -0.042638 -22.867761
0.75000 -0.520640 -14.924585 -0.379810
-0.000932 -0.348487 -22.437422
1.00000 -0.520640 -7.561222 -0.379810
-0.000932 -0.665592 -47.495429

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.388333 11.836920 0.217499
0.001242 0.539962 24.934429
0.25000 0.388333 33.200588 0.217499
0.001242 0.267118 78.089158
0.50000 0.388333 61.282119 0.217499
0.001242 0.073876 98.280263
0.75000 0.388333 87.582132 0.217499
0.001242 0.396320 75.092338
1.00000 0.388333 115.252756 0.217499
0.001242 0.769073 19.628831

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.359141 -113.600708 -0.304887
-0.001238 -0.743467 -78.137127
0.25000 -0.359141 -86.033963 -0.304887
-0.001238 -0.372400 -30.306482
0.50000 -0.359141 -59.716207 -0.304887
-0.001238 -0.050135 -29.997659
0.75000 -0.359141 -31.643268 -0.304887
-0.001238 -0.271535 -30.611311
1.00000 -0.359141 -10.396281 -0.304887
-0.001238 -0.539210 -79.032472
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4686

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.673924 13.392917 0.324440
0.001141 0.782079 25.045493
0.25000 0.673924 25.808462 0.324440
0.001141 0.380026 60.194438
0.50000 0.673924 55.192240 0.324440
0.001141 0.080388 80.277149
0.75000 0.673924 87.173027 0.324440
0.001141 0.574667 57.253519
1.00000 0.673924 115.222657 0.324440
0.001141 1.118104 18.300028

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.540416 -113.821899 -0.438932
-0.001119 -1.049402 -72.112995
0.25000 -0.540416 -85.777358 -0.438932
-0.001119 -0.505847 -29.690227
0.50000 -0.540416 -53.805025 -0.438932
-0.001119 -0.045740 -29.380193
0.75000 -0.540416 -24.456609 -0.438932
-0.001119 -0.421722 -29.276390
1.00000 -0.540416 -12.147705 -0.438932
-0.001119 -0.821665 -71.784446

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.673924 13.392917 0.324440
0.001242 0.782079 25.045493
0.25000 0.673924 33.200588 0.324440
0.001242 0.380026 78.089158
0.50000 0.673924 61.282119 0.324440
0.001242 0.080388 98.280263
0.75000 0.673924 87.582132 0.324440

```
 0.001242     0.574667    75.092338
 1.00000      0.673924   115.252756      0.324440
 0.001242     1.118104    19.628831

COMB       CAR ---------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.540416  -113.821899     -0.438932
-0.001238    -1.049402   -78.137127
 0.25000     -0.540416   -86.033963     -0.438932
-0.001238    -0.505847   -30.306482
 0.50000     -0.540416   -59.716207     -0.438932
-0.001238    -0.050135   -29.997659
 0.75000     -0.540416   -31.643268     -0.438932
-0.001238    -0.420722   -30.611311
 1.00000     -0.540416   -12.147705     -0.438932
-0.001238    -0.821665   -79.032472

COMB  DESIGN -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.673924    13.392917      0.324440
 0.001242     0.782079    25.045493
 0.25000      0.673924    33.200588      0.324440
 0.001242     0.380026    78.089158
 0.50000      0.673924    61.282119      0.324440
 0.001242     0.080388    98.280263
 0.75000      0.673924    87.582132      0.324440
 0.001242     0.574667    75.092338
 1.00000      0.673924   115.252756      0.324440
 0.001242     1.118104    19.628831

COMB  DESIGN -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.540416  -113.821899     -0.438932
-0.001238    -1.049402   -78.137127
 0.25000     -0.540416   -86.033963     -0.438932
-0.001238    -0.505847   -30.306482
 0.50000     -0.540416   -59.716207     -0.438932
-0.001238    -0.050135   -29.997659
 0.75000     -0.540416   -31.643268     -0.438932
-0.001238    -0.420722   -30.611311
 1.00000     -0.540416   -12.147705     -0.438932
-0.001238    -0.821665   -79.032472
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                 4687

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      457 ================== LENGTH
=     4.942317

COMB DB-G1-1 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.222677    0.267858       0.121465
 0.000698     0.300591    1.761055
 0.25000      0.222677    0.292093       0.121465
 0.000698     0.150529    1.542420
 0.50000      0.222677    0.323925       0.121465
 0.000698     0.004685    1.303182
 0.75000      0.222677    0.353698       0.121465
 0.000698     0.203500    1.036487
 1.00000      0.222677    0.385228       0.121465
 0.000698     0.405655    0.906574

COMB DB-G1-1 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.237634   -0.212646      -0.163662
-4.80E-07    -0.403317   -2.025371
 0.25000     -0.237634   -0.181506      -0.163662
-4.80E-07    -0.201099   -1.988731
 0.50000     -0.237634   -0.151680      -0.163662
-4.80E-07    -0.007459   -2.005752
 0.75000     -0.237634   -0.119914      -0.163662
-4.80E-07    -0.149670   -2.024244
 1.00000     -0.237634   -0.095963      -0.163662
-4.80E-07    -0.299748   -2.097628

COMB DB-G1-2 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.309916    0.932066       0.200308
 0.001256     0.495702    4.315618
 0.25000      0.309916    1.610657       0.200308
 0.001256     0.248684    5.365995
 0.50000      0.309916    2.501956       0.200308
 0.001256     0.011924    5.459525
 0.75000      0.309916    3.335592       0.200308
 0.001256     0.345677    4.260089
 1.00000      0.309916    4.218450       0.200308
 0.001256     0.688199    2.521474

COMB DB-G1-2 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.353195   -3.764206      -0.277445
-2.27E-06    -0.684151   -5.978863
 0.25000     -0.353195   -2.892285      -0.277445
-2.27E-06    -0.341357   -4.523130
 0.50000     -0.353195   -2.057178      -0.277445
-2.27E-06    -0.014315   -4.565227
 0.75000     -0.353195   -1.167716      -0.277445
-2.27E-06    -0.247366   -4.626639
 1.00000     -0.353195   -0.497098      -0.277445
-2.27E-06    -0.494868   -6.225199

COMB DB-G1-3 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.339698    1.096200       0.217324
 0.001455     0.538128    7.341531
 0.25000      0.339698    1.118012       0.217324
 0.001455     0.269616    6.292580
 0.50000      0.339698    1.146661       0.217324
 0.001455     0.019071    5.399409
 0.75000      0.339698    1.173457       0.217324
 0.001455     0.409678    4.776846
 1.00000      0.339698    1.201834       0.217324
 0.001455     0.814879    4.471431

COMB DB-G1-3 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.326519   -0.393579      -0.328069
-4.32E-07    -0.806909   -5.199943
 0.25000     -0.326519   -0.365553      -0.328069
-4.32E-07    -0.401593   -5.306117
 0.50000     -0.326519   -0.338710      -0.328069
-4.32E-07    -0.018120   -5.460435
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                 4688

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P              V2             V3
     T              M2             M3
 0.75000     -0.326519   -0.310120      -0.328069
-4.32E-07    -0.267404   -5.616500
 1.00000     -0.326519   -0.288565      -0.328069
-4.32E-07    -0.535930   -5.822452

COMB DB-G1-4 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.369040    7.271405       0.208586
 0.001207     0.514002   16.129391
 0.25000      0.369040   20.122214       0.208586
 0.001207     0.265436   47.846911
 0.50000      0.369040   37.001184       0.208586
 0.001207     0.048272   59.657739
 0.75000      0.369040   52.788175       0.208586
 0.001207     0.412072   44.083740
 1.00000      0.369040   69.507298       0.208586
 0.001207     0.807648   12.733173

COMB DB-G1-4 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.341992  -68.418076      -0.323275
-0.000461    -0.809425  -50.627917
 0.25000     -0.341992  -51.906073      -0.323275
-0.000461    -0.410026  -22.018939
 0.50000     -0.341992  -36.091235      -0.323275
-0.000461    -0.043265  -21.775182
 0.75000     -0.341992  -19.247044      -0.323275
-0.000461    -0.270224  -21.878981
 1.00000     -0.341992   -6.547217      -0.323275
-0.000461    -0.527988  -51.089168

COMB DB-G2-1 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.079739    0.469943       0.076885
 0.000589     0.190458    3.067993
 0.25000      0.079739    0.494179       0.076885
 0.000589     0.090449    2.663107
 0.50000      0.079739    0.526011       0.076885
 0.000589     0.008620    2.297947
 0.75000      0.079739    0.555783       0.076885
 0.000589     0.147911    2.037202
 1.00000      0.079739    0.587314       0.076885
 0.000589     0.294186    1.873245

COMB DB-G2-1 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.092569   -0.225860      -0.118430
-4.61E-06    -0.291273   -2.106696
 0.25000     -0.092569   -0.194720      -0.118430
-4.61E-06    -0.144941   -2.128150
 0.50000     -0.092569   -0.164895      -0.118430
-4.61E-06    -0.006838   -2.203100
 0.75000     -0.092569   -0.133128      -0.118430
-4.61E-06    -0.094534   -2.278706
 1.00000     -0.092569   -0.106696      -0.118430
-4.61E-06    -0.189551   -2.409287

COMB DB-G2-2 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.155955    9.055015       0.109918
 0.000773     0.269132   16.413816
 0.25000      0.155955   26.649899       0.109918
 0.000773     0.145877   60.675874
 0.50000      0.155955   49.760003       0.109918
 0.000773     0.052196   77.539617
 0.75000      0.155955   71.375006       0.109918
 0.000773     0.265687   56.706418
 1.00000      0.155955   94.266252       0.109918
 0.000773     0.510568   14.005324

COMB DB-G2-2 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.118874  -93.356510      -0.202400
-4.85E-05    -0.516158  -65.333593
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                 4689

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P              V2             V3
     T              M2             M3
 0.25000     -0.118874  -70.748847      -0.202400
-4.85E-05    -0.266116  -26.037931
 0.50000     -0.118874  -49.095716      -0.202400
-4.85E-05    -0.044971  -25.578662
 0.75000     -0.118874  -26.033230      -0.202400
-4.85E-05    -0.153385  -25.594291
 1.00000     -0.118874   -8.645065      -0.202400
-4.85E-05    -0.289233  -65.461042

COMB DB-G2-3 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.294816    8.389424       0.192410
 0.001250     0.473585   16.282519
 0.25000      0.294816   24.290255       0.192410
 0.001250     0.247179   56.065453
 0.50000      0.294816   45.175296       0.192410
 0.001250     0.051212   71.098895
 0.75000      0.294816   64.709185       0.192410
 0.001250     0.398086   52.066165
 1.00000      0.294816   85.396439       0.192410
 0.001250     0.776249   13.296697

COMB DB-G2-3 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.267102  -84.429552      -0.309897
-4.39E-05    -0.779302  -60.606146
 0.25000     -0.267102  -63.998577      -0.309897
-4.39E-05    -0.396438  -25.115939
 0.50000     -0.267102  -44.430231      -0.309897
-4.39E-05    -0.046365  -24.723234
 0.75000     -0.267102  -23.588224      -0.309897
-4.39E-05    -0.253240  -24.759434
 1.00000     -0.267102   -7.874209      -0.309897
-4.39E-05    -0.491027  -60.810580

COMB DB-G2-4 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.341208    6.275689       0.194597
 0.001046     0.479759   15.618239
 0.25000      0.341208   16.709019       0.194597
 0.001046     0.246748   41.009193
 0.50000      0.341208   30.412738       0.194597
 0.001046     0.045537   50.324131
 0.75000      0.341208   43.229899       0.194597
 0.001046     0.383131   37.507912
 1.00000      0.341208   56.803840       0.194597
 0.001046     0.752486   11.907064

COMB DB-G2-4 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.303229  -55.616494      -0.301448
-0.000755    -0.753146  -42.360310
 0.25000     -0.303229  -42.210710      -0.301448
-0.000755    -0.380706  -19.215036
 0.50000     -0.303229  -29.370940      -0.301448
-0.000755    -0.039139  -19.099010
 0.75000     -0.303229  -15.695458      -0.301448
-0.000755    -0.250487  -19.264752
 1.00000     -0.303229   -5.384077      -0.301448
-0.000755    -0.490966  -43.061981

COMB DB-G3-1 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.152532    0.692141       0.068401
 7.27E-06     0.168881    4.751840
 0.25000      0.152532    0.716377       0.068401
 7.27E-06     0.084383    4.151599
 0.50000      0.152532    0.748209       0.068401
 7.27E-06     0.011688    3.612796
 0.75000      0.152532    0.777982       0.068401
 7.27E-06     0.106545    3.213734
 1.00000      0.152532    0.809512       0.068401
 7.27E-06     0.213076    2.925387
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                 4690

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.134147   -0.226029      -0.086214
-0.001167    -0.131364   -2.644117
 0.25000     -0.134147   -0.194889      -0.086214
-0.001167    -0.106524   -2.753878
 0.50000     -0.134147   -0.165063      -0.086214
-0.001167    -0.008276   -2.917135
 0.75000     -0.134147   -0.133297      -0.086214
-0.001167    -0.084682   -3.081045
 1.00000     -0.134147   -0.103948      -0.086214
-0.001167    -0.169199   -3.299849

COMB DB-G3-2 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.239599   10.996275       0.098573
 9.13E-05     0.237755   19.671825
 0.25000      0.239599   32.420349       0.098573
 9.13E-05     0.132312   73.665556
 0.50000      0.239599   60.559925       0.098573
 9.13E-05     0.061640   94.260238
 0.75000      0.239599   86.879020       0.098573
 9.13E-05     0.209314   68.867976
 1.00000      0.239599  114.752107       0.098573
 9.13E-05     0.396586   16.788512

COMB DB-G3-2 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.204798  -113.664461     -0.156611
-0.001411    -0.409288   -79.011314
 0.25000     -0.204798   -86.136673     -0.156611
-0.001411    -0.215728   -31.206175
 0.50000     -0.204798   -59.771153     -0.156611
-0.001411    -0.052567   -30.689719
 0.75000     -0.204798   -31.689558     -0.156611
-0.001411    -0.145999   -30.750762
 1.00000     -0.204798   -10.517192     -0.156611
-0.001411    -0.267804   -79.335696

COMB DB-G3-3 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.271318    8.240830       0.139820
 0.000513     0.343356   18.497699
 0.25000      0.271318   22.942010       0.139820
 0.000513     0.181084   54.848748
 0.50000      0.271318   42.251361       0.139820
 0.000513     0.055225   68.416069
 0.75000      0.271318   60.311501       0.139820
 0.000513     0.295623   50.652385
 1.00000      0.271318   79.437988       0.139820
 0.000513     0.574097   14.731020

COMB DB-G3-3 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.202161  -78.108322      -0.228874
-0.001221    -0.579109   -56.951137
 0.25000     -0.202161   -59.218778     -0.228874
-0.001221    -0.296287   -24.283731
 0.50000     -0.202161   -41.126783     -0.228874
-0.001221    -0.045180   -24.065742
 0.75000     -0.202161   -21.857218     -0.228874
-0.001221    -0.187516   -24.244172
 1.00000     -0.202161    -7.328759     -0.228874
-0.001221    -0.360310   -57.720055

COMB DB-G3-4 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.326372    7.064794       0.190086
 0.000905     0.468263   16.857827
 0.25000      0.326372   19.224895       0.190086
 0.000905     0.242075   46.653635
 0.50000      0.326372   35.196650       0.190086
 0.000905     0.049923   57.649985
 0.75000      0.326372   50.135119       0.190086
 0.000905     0.257797   42.171896
 1.00000      0.326372   65.955618       0.190086
 0.000905     0.732459   12.980410
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                 4691

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.285791  -64.670558      -0.293175
-0.001018    -0.734825   -48.497962
 0.25000     -0.285791   -49.046046     -0.293175
-0.001018    -0.372569   -21.507695
 0.50000     -0.285791   -34.081228     -0.293175
-0.001018    -0.042272   -21.358139
 0.75000     -0.285791   -18.142381     -0.293175
-0.001018    -0.246749   -21.536529
 1.00000     -0.285791    -6.125148     -0.293175
-0.001018    -0.481639   -49.257201

COMB DL-G1-1 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.451918    0.357365       0.196527
 0.000714     0.479085    2.638110
 0.25000      0.451918    0.365817       0.196527
 0.000714     0.236163    2.323503
 0.50000      0.451918    0.385289       0.196527
 0.000714     0.006935    2.072908
 0.75000      0.451918    0.406446       0.196527
 0.000714     0.309093    1.869767
 1.00000      0.451918    0.424941       0.196527
 0.000714     0.613669    1.739116

COMB DL-G1-1 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.322095   -0.213063      -0.246078
-2.87E-07    -0.601824   -2.567082
 0.25000     -0.322095   -0.194473      -0.246078
-2.87E-07    -0.297275   -2.434416
 0.50000     -0.322095   -0.173299      -0.246078
-2.87E-07    -0.009222   -2.414179
 0.75000     -0.322095   -0.153881      -0.246078
-2.87E-07    -0.249419   -2.478044
 1.00000     -0.322095   -0.145835      -0.246078
-2.87E-07    -0.492390   -2.643796

COMB DL-G1-2 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.574932    1.007335       0.324564
 0.001259     0.790578    5.505195
 0.25000      0.574932    1.252424       0.324564
 0.001259     0.389733    5.504363
 0.50000      0.574932    1.817115       0.324564
 0.001259     0.015376    5.360546
 0.75000      0.574932    2.430684       0.324564
 0.001259     0.528809    4.605133
 1.00000      0.574932    2.967023       0.324564
 0.001259     1.047158    3.709633

COMB DL-G1-2 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.538881   -2.460341      -0.419302
-1.47E-06    -1.024388   -5.916250
 0.25000     -0.538881   -1.921224      -0.419302
-1.47E-06    -0.505566   -4.964107
 0.50000     -0.538881   -1.307202      -0.419302
-1.47E-06    -0.016602   -4.993030
 0.75000     -0.538881   -0.744079      -0.419302
-1.47E-06    -0.412845   -5.193197
 1.00000     -0.538881   -0.510740      -0.419302
-1.47E-06    -0.814154   -6.358921

COMB DL-G1-3 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.588522    1.375401       0.367111
 0.001372     0.891038    8.598605
 0.25000      0.588522    1.383007       0.367111
 0.001372     0.437071    7.437456
 0.50000      0.588522    1.400532       0.367111
 0.001372     0.023380    6.617486
 0.75000      0.588522    1.419574       0.367111
 0.001372     0.634091    6.171557
 1.00000      0.588522    1.436219       0.367111
 0.001372     1.253120    5.398486
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                 4692

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.486514   -0.545435      -0.500450
-7.10E-06    -1.218291   -6.640688
 0.25000     -0.486514   -0.528704      -0.500450
-7.10E-06    -0.598791   -6.510148
 0.50000     -0.486514   -0.509648      -0.500450
-7.10E-06    -0.022993   -6.769435
 0.75000     -0.486514   -0.492172      -0.500450
-7.10E-06    -0.469975   -7.248259
 1.00000     -0.486514   -0.484930      -0.500450
-7.10E-06    -0.923730   -7.942250

COMB DL-G1-4 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.640300    6.991370       0.344852
 0.001138     0.831977   14.963658
 0.25000      0.640300   12.905189       0.344852
 0.001138     0.414591   31.112053
 0.50000      0.640300   26.530808       0.344852
 0.001138     0.047092   39.877753
 0.75000      0.640300   41.335798       0.344852
 0.001138     0.629917   29.142286
 1.00000      0.640300   54.277289       0.344852
 0.001138     1.227765   11.550791

COMB DL-G1-4 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.497586  -53.026850      -0.489325
-0.000422    -1.197747   -38.086074
 0.25000     -0.497586   -40.018324     -0.489325
-0.000422    -0.593835   -18.579626
 0.50000     -0.497586   -25.202388     -0.489325
-0.000422    -0.039101   -18.723492
 0.75000     -0.497586   -11.614636     -0.489325
-0.000422    -0.455971   -19.174196
 1.00000     -0.497586    -5.984307     -0.489325
-0.000422    -0.882311   -39.813681

COMB DL-G2-1 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.106098    0.580704       0.128833
 0.000530     0.312474    3.357421
 0.25000      0.106098    0.589156       0.128833
 0.000530     0.153251    2.938257
 0.50000      0.106098    0.608628       0.128833
 0.000530     0.009883    2.650783
 0.75000      0.106098    0.629785       0.128833
 0.000530     0.230650    2.456200
 1.00000      0.106098    0.648280       0.128833
 0.000530     0.455396    2.325664

COMB DL-G2-1 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.189864   -0.266163      -0.181597
-2.49E-06    -0.441512   -2.570625
 0.25000     -0.189864   -0.247573      -0.181597
-2.49E-06    -0.216720   -2.522176
 0.50000     -0.189864   -0.226400      -0.181597
-2.49E-06    -0.008417   -2.645972
 0.75000     -0.189864   -0.206982      -0.181597
-2.49E-06    -0.165006   -2.869975
 1.00000     -0.189864   -0.198935      -0.181597
-2.49E-06    -0.324190   -3.194027

COMB DL-G2-2 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.229252    9.229714       0.192866
 0.000660     0.461944   14.503943
 0.25000      0.229252   18.230381       0.192866
 0.000660     0.236581   40.256750
 0.50000      0.229252   38.968195       0.192866
 0.000660     0.050542   54.500444
 0.75000      0.229252   61.500976       0.192866
 0.000660     0.395064   38.488409
 1.00000      0.229252   81.197565       0.192866
 0.000660     0.754674   11.766005
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                 4693

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST            P              V2             V3
     T              M2             M3
 0.00000     -0.191390  -80.135809      -0.299891
-4.52E-05    -0.740039   -51.775949
 0.25000     -0.191390   -60.337194     -0.299891
-4.52E-05    -0.371114   -22.112605
 0.50000     -0.191390   -37.787753     -0.299891
-4.52E-05    -0.037742   -22.074889
 0.75000     -0.191390   -17.107572     -0.299891
-4.52E-05    -0.267469   -22.311181
 1.00000     -0.191390    -8.538370     -0.299891
-4.52E-05    -0.506156   -53.094526

COMB DL-G2-3 -------------------- MAX

REL DIST            P              V2             V3
     T              M2             M3
 0.00000      0.479798    8.635577       0.323795
 0.001156     0.781767   15.282666
 0.25000      0.479798   16.781815       0.323795
 0.001156     0.393533   38.311534
 0.50000      0.479798   35.550996       0.323795
 0.001156     0.051632   50.984491
 0.75000      0.479798   55.944751       0.323795
```

0.001156	0.597069	36.329589	
1.00000	0.479798	73.771550	0.323795
0.001156	1.158096	12.028715	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.409624	-72.626271	-0.461754
-4.09E-05	-1.135021	-49.102700	
0.25000	-0.409624	-54.707130	-0.461754
-4.09E-05	-0.565554	-22.199238	
0.50000	-0.409624	-34.298298	-0.461754
-4.09E-05	-0.041210	-22.276252	
0.75000	-0.409624	-15.581278	-0.461754
-4.09E-05	-0.431524	-22.546210	
1.00000	-0.409624	-7.825546	-0.461754
-4.09E-05	-0.831824	-50.504412	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.536987	6.198807	0.314526
0.000969	0.757087	14.672311	
0.25000	0.536987	11.111143	0.314526
0.000969	0.375062	27.784842	
0.50000	0.536987	22.429316	0.314526
0.000969	0.045279	34.857854	
0.75000	0.536987	34.727137	0.314526
0.000969	0.591145	25.825877	
1.00000	0.536987	45.477035	0.314526
0.000969	1.152962	11.169087	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.469542	-44.135109	-0.458821
-0.000738	-1.120491	-33.229283	
0.25000	-0.469542	-33.329527	-0.458821
-0.000738	-0.553717	-17.112184	
0.50000	-0.469542	-21.022614	-0.458821
-0.000738	-0.037038	-17.489083	
0.75000	-0.469542	-9.736895	-0.458821
-0.000738	-0.416798	-18.061095	
1.00000	-0.469542	-5.059042	-0.458821
-0.000738	-0.805646	-35.425996	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.203262	0.843179	0.081956
7.05E-06	0.194423	4.699733	
0.25000	0.203262	0.851630	0.081956
7.05E-06	0.092651	4.124583	
0.50000	0.203262	0.871102	0.081956
7.05E-06	0.012620	3.701829	
0.75000	0.203262	0.892350	0.081956
7.05E-06	0.168461	3.418836	
1.00000	0.203262	0.910754	0.081956
7.05E-06	0.330511	3.243116	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4694

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.242501	-0.264832	-0.130821
-0.001169	-0.314976	-3.180202	
0.25000	-0.242501	-0.246241	-0.130821
-0.001169	-0.152989	-3.326371	
0.50000	-0.242501	-0.225068	-0.130821
-0.001169	-0.010465	-3.660473	
0.75000	-0.242501	-0.205650	-0.130821
-0.001169	-0.109403	-4.085566	
1.00000	-0.242501	-0.197604	-0.130821
-0.001169	-0.210589	-4.629684	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.377720	12.806386	0.132279
6.93E-05	0.309211	18.320225	
0.25000	0.377720	25.584798	0.132279
6.93E-05	0.164955	55.221414	
0.50000	0.377720	55.026652	0.132279
6.93E-05	0.064401	75.602900	
0.75000	0.377720	87.016855	0.132279
6.93E-05	0.311332	52.953990	
1.00000	0.377720	114.980462	0.132279
6.93E-05	0.578466	15.015929	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.315324	-113.629560	-0.228634
-0.001355	-0.570127	-71.739173	
0.25000	-0.315324	-85.521104	-0.228634
-0.001355	-0.290709	-29.840356	
0.50000	-0.315324	-53.507250	-0.228634
-0.001355	-0.047189	-29.827829	
0.75000	-0.315324	-24.147218	-0.228634
-0.001355	-0.202211	-30.095134	
1.00000	-0.315324	-11.981364	-0.228634
-0.001355	-0.365600	-73.679442	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.378096	10.000627	0.213418
0.000398	0.507004	17.900404	
0.25000	0.378096	19.211732	0.213418
0.000398	0.256320	43.886544	
0.50000	0.378096	40.434401	0.213418
0.000398	0.059711	58.195056	
0.75000	0.378096	63.494006	0.213418
0.000398	0.455399	41.618931	
1.00000	0.378096	83.651106	0.213418
0.000398	0.871702	14.159460	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.329745	-82.104304	-0.345359
-0.001183	-0.848043	-54.886222	
0.25000	-0.329745	-61.842792	-0.345359
-0.001183	-0.422422	-24.711893	
0.50000	-0.329745	-38.766139	-0.345359
-0.001183	-0.044911	-24.950110	
0.75000	-0.329745	-17.602449	-0.345359
-0.001183	-0.298836	-25.513701	
1.00000	-0.329745	-8.832896	-0.345359
-0.001183	-0.562858	-57.394038	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.483519	8.604887	0.296295
0.000811	0.711128	16.912090	
0.25000	0.483519	16.249115	0.296295
0.000811	0.355827	38.191079	
0.50000	0.483519	33.861653	0.296295
0.000811	0.055268	49.841159	
0.75000	0.483519	52.998649	0.296295
0.000811	0.575028	35.955981	
1.00000	0.483519	69.726879	0.296295
0.000811	1.113625	12.098867	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4695

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.479523	-68.242544	-0.442769
-0.000986	-1.085004	-47.515939	
0.25000	-0.479523	-51.427664	-0.442769
-0.000986	-0.548489	-22.442585	
0.50000	-0.479523	-32.276518	-0.442769
-0.000986	-0.043241	-22.669218	
0.75000	-0.479523	-14.712928	-0.442769
-0.000986	-0.399475	-23.221167	
1.00000	-0.479523	-7.435141	-0.442769
-0.000986	-0.765808	-49.804243	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.369040	10.996275	0.217324
0.001455	0.538128	19.671825	
0.25000	0.369040	32.420349	0.217324
0.001455	0.269616	73.665556	
0.50000	0.369040	60.559925	0.217324
0.001455	0.061640	94.260238	
0.75000	0.369040	86.879020	0.217324
0.001455	0.412072	68.867976	
1.00000	0.369040	114.752107	0.217324
0.001455	0.814879	16.788512	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.353195	-113.664461	-0.328069
-0.001411	-0.809425	-79.011314	
0.25000	-0.353195	-86.136673	-0.328069
-0.001411	-0.410026	-31.206175	
0.50000	-0.353195	-59.771153	-0.328069
-0.001411	-0.052567	-30.689719	
0.75000	-0.353195	-31.689558	-0.328069
-0.001411	-0.270224	-30.750762	
1.00000	-0.353195	-10.517192	-0.328069
-0.001411	-0.535930	-79.335696	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.640300	12.806386	0.367111
0.001372	0.891038	18.320225	
0.25000	0.640300	25.584798	0.367111
0.001372	0.437071	55.221414	
0.50000	0.640300	55.026652	0.367111
0.001372	0.064401	75.602900	
0.75000	0.640300	87.016855	0.367111
0.001372	0.634091	52.953990	
1.00000	0.640300	114.980462	0.367111
0.001372	1.253120	15.015929	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.538881	-113.629560	-0.500450
-0.001355	-1.218291	-71.739173	
0.25000	-0.538881	-85.521104	-0.500450
-0.001355	-0.598791	-29.840356	
0.50000	-0.538881	-53.507250	-0.500450
-0.001355	-0.047189	-29.827829	
0.75000	-0.538881	-24.147218	-0.500450
-0.001355	-0.469975	-30.095134	
1.00000	-0.538881	-11.981364	-0.500450
-0.001355	-0.923730	-73.679442	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.640300	12.806386	0.367111
0.001455	0.891038	19.671825	
0.25000	0.640300	32.420349	0.367111
0.001455	0.437071	73.665556	
0.50000	0.640300	60.559925	0.367111
0.001455	0.064401	94.260238	
0.75000	0.640300	87.016855	0.367111
0.001455	0.634091	68.867976	
1.00000	0.640300	114.980462	0.367111
0.001455	1.253120	16.788512	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4696

FRAME ELEMENT INTERNAL FORCES

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.538881	-113.664461	-0.500450
-0.001411	-1.218291	-79.011314	
0.25000	-0.538881	-86.136673	-0.500450
-0.001411	-0.598791	-31.206175	
0.50000	-0.538881	-59.771153	-0.500450
-0.001411	-0.052567	-30.689719	
0.75000	-0.538881	-31.689558	-0.500450
-0.001411	-0.469975	-30.750762	
1.00000	-0.538881	-11.981364	-0.500450
-0.001411	-0.923730	-79.335696	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.640300	12.806386	0.367111
0.001455	0.891038	19.671825	
0.25000	0.640300	32.420349	0.367111
0.001455	0.437071	73.665556	
0.50000	0.640300	60.559925	0.367111
0.001455	0.064401	94.260238	
0.75000	0.640300	87.016855	0.367111
0.001455	0.634091	68.867976	
1.00000	0.640300	114.980462	0.367111
0.001455	1.253120	16.788512	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.538881	-113.664461	-0.500450
-0.001411	-1.218291	-79.011314	
0.25000	-0.538881	-86.136673	-0.500450
-0.001411	-0.598791	-31.206175	
0.50000	-0.538881	-59.771153	-0.500450
-0.001411	-0.052567	-30.689719	
0.75000	-0.538881	-31.689558	-0.500450
-0.001411	-0.469975	-30.750762	
1.00000	-0.538881	-11.981364	-0.500450
-0.001411	-0.923730	-79.335696	

ELEM 458 ========== LENGTH = 4.943664

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.215950	0.226322	0.113980
0.000668	0.286792	0.912146	
0.25000	0.215950	0.251436	0.113980
0.000668	0.145943	0.945297	
0.50000	0.215950	0.284056	0.113980
0.000668	0.004822	0.946508	
0.75000	0.215950	0.311569	0.113980
0.000668	0.182754	0.904888	
1.00000	0.215950	0.347528	0.113980
0.000668	0.372545	0.842696	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.229180	-0.253646	-0.153584
-3.90E-07	-0.386743	-2.116602	
0.25000	-0.229180	-0.222846	-0.153584
-3.90E-07	-0.196926	-1.935137	
0.50000	-0.229180	-0.192315	-0.153584
-3.90E-07	-0.007010	-1.802328	
0.75000	-0.229180	-0.160639	-0.153584
-3.90E-07	-0.135830	-1.672858	
1.00000	-0.229180	-0.138615	-0.153584
-3.90E-07	-0.276698	-1.608566	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.293010	0.851428	0.187892
0.001226	0.472912	2.543135	
0.25000	0.293010	1.554619	0.187892
0.001226	0.241182	3.803439	
0.50000	0.293010	2.467980	0.187892
0.001226	0.009291	4.271214	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4697

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.293010	3.238329	0.187892
0.001226	0.309821	3.417222	
1.00000	0.293010	4.245195	0.187892
0.001226	0.631941	1.967237	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.344055	-3.749029	-0.260980
-3.90E-07	-0.656618	-6.256674	
0.25000	-0.344055	-2.886623	-0.260980
-3.90E-07	-0.336070	-4.614997	
0.50000	-0.344055	-2.031762	-0.260980
-3.90E-07	-0.013636	-4.273868	
0.75000	-0.344055	-1.144813	-0.260980
-3.90E-07	-0.224075	-3.984819	
1.00000	-0.344055	-0.528153	-0.260980
-3.90E-07	-0.456233	-5.427761	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.304361	1.210233	0.203375
0.001482	0.512057	4.493470	
0.25000	0.304361	1.232835	0.203375
0.001482	0.260942	3.525491	
0.50000	0.304361	1.262193	0.203375
0.001482	0.010185	2.822051	
0.75000	0.304361	1.289555	0.203375
0.001482	0.366802	2.312025	
1.00000	0.304361	1.319318	0.203375
0.001482	0.750146	2.132189	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.318541	-0.324651	-0.310196
-3.51E-07	-0.783400	-5.860958	
0.25000	-0.318541	-0.296931	-0.310196
-3.51E-07	-0.400003	-5.716681	
0.50000	-0.318541	-0.269453	-0.310196
-3.51E-07	-0.016883	-5.616535	
0.75000	-0.318541	-0.240944	-0.310196
-3.51E-07	-0.252097	-5.520659	
1.00000	-0.318541	-0.221123	-0.310196
-3.51E-07	-0.503547	-5.482921	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335905	5.214797	0.200262
0.001239	0.498124	12.739930	
0.25000	0.335905	18.531472	0.200262
0.001239	0.261450	44.239931	
0.50000	0.335905	35.628252	0.200262
0.001239	0.033570	54.845648	
0.75000	0.335905	50.416743	0.200262
0.001239	0.366166	38.442748	
1.00000	0.335905	69.484258	0.200262
0.001239	0.738397	11.173712	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.335188	-67.833811	-0.307857
-0.000402	-0.789884	-51.138016	
0.25000	-0.335188	-51.502004	-0.307857
-0.000402	-0.439842	-22.805058	
0.50000	-0.335188	-35.313085	-0.307857
-0.000402	-0.037791	-19.046967	
0.75000	-0.335188	-18.516486	-0.307857
-0.000402	-0.259169	-16.229220	
1.00000	-0.335188	-6.838483	-0.307857
-0.000402	-0.505296	-46.166460	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.053250	0.563729	0.071847
0.000609	0.181143	1.893520	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4698

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.053250	0.588843	0.071847
0.000609	0.092337	1.342301	
0.50000	0.053250	0.621463	0.071847
0.000609	0.003491	0.999003	
0.75000	0.053250	0.648976	0.071847
0.000609	0.132106	0.904882	
1.00000	0.053250	0.684935	0.071847
0.000609	0.270752	0.849672	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093438	-0.190754	-0.112156
-4.29E-06	-0.283744	-2.492384	
0.25000	-0.093438	-0.159954	-0.112156
-4.29E-06	-0.145142	-2.375753	
0.50000	-0.093438	-0.129423	-0.112156
-4.29E-06	-0.006581	-2.376727	
0.75000	-0.093438	-0.097746	-0.112156
-4.29E-06	-0.085235	-2.397770	
1.00000	-0.093438	-0.075723	-0.112156
-4.29E-06	-0.174013	-2.445594	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.122368	6.210602	0.105768
0.000848	0.264321	14.008990	
0.25000	0.122368	24.443335	0.105768
0.000848	0.146336	57.727747	
0.50000	0.122368	48.125489	0.105768
0.000848	0.036695	72.699945	
0.75000	0.122368	68.099547	0.105768
0.000848	0.230522	50.485316	
1.00000	0.122368	94.206130	0.105768
0.000848	0.459839	13.218509	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.120265	-92.556214	-0.194686
-3.90E-07	-0.511263	-65.499321	
0.25000	-0.120265	-70.195267	-0.194686
-3.90E-07	-0.270641	-26.808415	
0.50000	-0.120265	-48.029958	-0.194686
-3.90E-07	-0.038075	-21.761770	
0.75000	-0.120265	-25.032634	-0.194686
-3.90E-07	-0.147622	-18.000620	
1.00000	-0.120265	-9.043516	-0.194686
-3.90E-07	-0.276268	-59.084564	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.259224	5.799723	0.182868
0.001294	0.458572	13.308426	
0.25000	0.259224	22.276990	0.182868
0.001294	0.244045	52.847666	
0.50000	0.259224	43.679002	0.182868
0.001294	0.036809	66.371040	
0.75000	0.259224	61.729939	0.182868
0.001294	0.350219	46.282087	
1.00000	0.259224	85.322954	0.182868
0.001294	0.705012	12.607170	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.261890	-83.711621	-0.295325
-3.51E-07	-0.762785	-60.859235	
0.25000	-0.261890	-63.503609	-0.295325
-3.51E-07	-0.397802	-25.814521	
0.50000	-0.261890	-43.472397	-0.295325
-3.51E-07	-0.040021	-21.175128	
0.75000	-0.261890	-22.689278	-0.295325
-3.51E-07	-0.236999	-17.698749	
1.00000	-0.261890	-8.239609	-0.295325
-3.51E-07	-0.460713	-54.750022	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4699

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.307936	4.671128	0.185685
0.001084	0.464820	11.922316	
0.25000	0.307936	15.482686	0.185685
0.001084	0.242866	37.054814	
0.50000	0.307936	29.525616	0.185685
0.001084	0.029164	45.323940	
0.75000	0.307936	41.369738	0.185685
0.001084	0.342668	31.765089	
1.00000	0.307936	56.850294	0.185685
0.001084	0.691844	9.485915	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.297350	-55.072611	-0.287903
-0.000697	-0.736576	-43.105045	
0.25000	-0.297350	-41.813124	-0.287903
-0.000697	-0.380747	-20.157038	
0.50000	-0.297350	-28.669645	-0.287903
-0.000697	-0.034612	-17.159561	
0.75000	-0.297350	-15.032802	-0.287903
-0.000697	-0.237472	-14.925571	
1.00000	-0.297350	-5.551652	-0.287903
-0.000697	-0.465509	-39.284018	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.147153	0.770651	0.067120
1.08E-05	0.166304	2.939308	
0.25000	0.147153	0.795765	0.067120
1.08E-05	0.083366	2.219711	
0.50000	0.147153	0.828385	0.067120
1.08E-05	0.004017	1.548764	
0.75000	0.147153	0.855897	0.067120
1.08E-05	0.101591	1.078917	
1.00000	0.147153	0.891857	0.067120
1.08E-05	0.204921	1.037755	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.129490	-0.201693	-0.083613
-0.001149	-0.208446	-3.305812	
0.25000	-0.129490	-0.170893	-0.083613
-0.001149	-0.105092	-3.332593	
0.50000	-0.129490	-0.140362	-0.083613
-0.001149	-0.008424	-3.405717	
0.75000	-0.129490	-0.108685	-0.083613
-0.001149	-0.082570	-3.480618	
1.00000	-0.129490	-0.086662	-0.083613
-0.001149	-0.165524	-3.617294	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.231413	7.458028	0.103978
0.000123	0.253395	16.782331	
0.25000	0.231413	29.658766	0.103978
0.000123	0.140414	70.219487	
0.50000	0.231413	58.494857	0.103978
0.000123	0.044130	88.443550	
0.75000	0.231413	82.815917	0.103978
0.000123	0.185996	61.396955	
1.00000	0.231413	114.604098	0.103978
0.000123	0.361883	16.079927	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.200620	-112.747837	-0.153377
-0.001270	-0.406911	-79.368005	
0.25000	-0.200620	-85.520459	-0.153377
-0.001270	-0.217286	-32.316687	
0.50000	-0.200620	-58.531294	-0.153377
-0.001270	-0.045274	-26.231625	
0.75000	-0.200620	-30.529043	-0.153377
-0.001270	-0.142705	-21.710884	
1.00000	-0.200620	-11.060200	-0.153377
-0.001270	-0.269111	-71.793686	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4700

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.235827	5.937032	0.136067
0.000582	0.338369	14.739582	
0.25000	0.235827	21.171158	0.136067
0.000582	0.180827	50.532142	
0.50000	0.235827	40.958478	0.136067
0.000582	0.034273	62.280106	
0.75000	0.235827	57.647547	0.136067

```
 0.000582     0.264816    43.166438
1.00000      0.235827    79.460568      0.136067
 0.000582     0.529168    11.950495

COMB DB-G3-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.198912   -77.392879   -0.221469
-0.001156   -0.572923   -57.756254
0.25000    -0.198912   -58.709477   -0.221469
-0.001156   -0.299165   -25.519350
0.50000    -0.198912   -40.189536   -0.221469
-0.001156   -0.039410   -21.393417
0.75000    -0.198912   -20.974417   -0.221469
-0.001156   -0.182945   -18.341421
1.00000    -0.198912    -7.614914   -0.221469
-0.001156   -0.348634   -52.759085

COMB DB-G3-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.293514     5.181667    0.182306
0.000952    0.455502    13.011423
0.25000     0.293514    17.782595    0.182306
 0.000952    0.239000    42.429062
0.50000     0.293514    34.149703    0.182306
 0.000952    0.031447    52.123211
0.75000     0.293514    47.954088    0.182306
 0.000952    0.335061    36.310062
1.00000     0.293514    65.996756    0.182306
 0.000952    0.674613    10.467348

COMB DB-G3-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.279959   -64.061032   -0.281008
-0.000964   -0.720568   -49.298219
0.25000    -0.279959   -48.607031   -0.281008
-0.000964   -0.373219   -22.592796
0.50000    -0.279959   -33.288237   -0.281008
-0.000964   -0.037499   -19.139445
0.75000    -0.279959   -17.394426   -0.281008
-0.000964   -0.234763   -16.574605
1.00000    -0.279959    -6.344096   -0.281008
-0.000964   -0.458555   -45.003496

COMB DL-G1-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.429556    0.289227    0.203964
0.000678    0.506229    1.744901
0.25000     0.429556    0.300511    0.203964
0.000678    0.254062    1.682374
0.50000     0.429556    0.320480    0.203964
0.000678    0.007670    1.641333
0.75000     0.429556    0.341687    0.203964
0.000678    0.291161    1.611990
1.00000     0.429556    0.359296    0.203964
0.000678    0.590410    1.610251

COMB DL-G1-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.317180   -0.295285   -0.241823
-2.41E-07   -0.604390   -2.631985
0.25000    -0.317180   -0.276228   -0.241823
-2.41E-07   -0.304980   -2.557945
0.50000    -0.317180   -0.256597   -0.241823
-2.41E-07   -0.012157   -2.548553
0.75000    -0.317180   -0.235423   -0.241823
-2.41E-07   -0.250107   -2.581931
1.00000    -0.317180   -0.228540   -0.241823
-2.41E-07   -0.502213   -2.689497
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4701

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.523305    0.897576    0.337220
0.001232    0.835792    3.721757
0.25000     0.523305    1.224809    0.337220
0.001232    0.419200    4.084163
0.50000     0.523305    1.803901    0.337220
0.001232    0.013907    4.199986
0.75000     0.523305    2.418903    0.337220
0.001232    0.469834    3.697496
1.00000     0.523305    2.929568    0.337220
0.001232    1.011792    3.110995

COMB DL-G1-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.552031   -2.482049   -0.414799
-2.41E-07   -1.037780   -6.332004
0.25000    -0.552031   -1.929391   -0.414799
-2.41E-07   -0.524449   -5.661946
0.50000    -0.552031   -1.304979   -0.414799
-2.41E-07   -0.023685   -5.765947
0.75000    -0.552031   -0.746037   -0.414799
-2.41E-07   -0.415297   -6.034438
1.00000    -0.552031   -0.546441   -0.414799
-2.41E-07   -0.831876   -7.372431

COMB DL-G1-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.524722    1.422071    0.388349
0.001406    0.958210    6.005517
0.25000     0.524722    1.432226    0.388349
0.001406    0.478658    5.239150
0.50000     0.524722    1.450198    0.388349
0.001406    0.017658    4.675437
0.75000     0.524722    1.469285    0.388349
0.001406    0.599019    4.456643
1.00000     0.524722    1.485133    0.388349
0.001406    1.216274    4.491452

COMB DL-G1-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.504169   -0.443530   -0.498636
-6.94E-06   -1.247317   -7.911385
0.25000    -0.504169   -0.426379   -0.498636
-6.94E-06   -0.630061   -8.328482
0.50000    -0.504169   -0.407001   -0.498636
-6.94E-06   -0.032365   -8.925955
0.75000    -0.504169   -0.389654   -0.498636
-6.94E-06   -0.485090   -9.707604
1.00000    -0.504169   -0.383460   -0.498636
-6.94E-06   -0.965028   -10.735782

COMB DL-G1-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.595661    4.925258    0.371325
0.001165    0.917618    11.563114
0.25000     0.595661    12.821176    0.371325
 0.001165    0.463279    28.462435
0.50000     0.595661    26.794260    0.371325
 0.001165    0.036154    36.654906
0.75000     0.595661    41.633837    0.371325
 0.001165    0.596180    25.423413
1.00000     0.595661    53.955818    0.371325
 0.001165    1.194929    10.284248

COMB DL-G1-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.501979   -52.750933   -0.491979
-0.000391   -1.238720   -39.805949
0.25000    -0.501979   -39.415678   -0.491979
-0.000391   -0.630237   -21.168282
0.50000    -0.501979   -24.349052   -0.491979
-0.000391   -0.047878   -19.293406
0.75000    -0.501979   -10.862163   -0.491979
-0.000391   -0.475739   -18.093592
1.00000    -0.501979    -6.046044   -0.491979
-0.000391   -0.934660   -39.783011
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4702

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.070101    0.655519    0.135954
0.000573    0.334952    2.330641
0.25000     0.070101    0.666803    0.135954
0.000573    0.167038    1.975541
0.50000     0.070101    0.686772    0.135954
0.000573    0.006265    1.726217
0.75000     0.070101    0.707979    0.135954
0.000573    0.218701    1.603812
1.00000     0.070101    0.725588    0.135954
0.000573    0.444450    1.596490

COMB DL-G2-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.210694   -0.182297   -0.182370
-2.41E-06   -0.456538   -3.177287
0.25000    -0.210694   -0.163239   -0.182370
-2.41E-06   -0.230741   -3.422274
0.50000    -0.210694   -0.141708   -0.182370
-2.41E-06   -0.012829   -3.748659
0.75000    -0.210694   -0.122434   -0.182370
-2.41E-06   -0.169155   -4.180493
1.00000    -0.210694   -0.115552   -0.182370
-2.41E-06   -0.337004   -4.757129

COMB DL-G2-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.190339    6.098976    0.209476
0.000738    0.521758    11.767544
0.25000     0.190339    18.116344    0.209476
 0.000738    0.269081    38.250289
0.50000     0.190339    39.382988    0.209476
 0.000738    0.038969    51.282272
0.75000     0.190339    61.968411    0.209476
 0.000738    0.369396    34.224826
1.00000     0.190339    80.722123    0.209476
 0.000738    0.730427    10.943751

COMB DL-G2-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.212945   -79.721571   -0.303938
-2.41E-07   -0.775056   -53.093264
0.25000    -0.212945   -59.425685   -0.303938
-2.41E-07   -0.399572   -24.374024
0.50000    -0.212945   -36.490701   -0.303938
-2.41E-07   -0.043589   -21.005556
0.75000    -0.212945   -15.968031   -0.303938
-2.41E-07   -0.277456   -18.536122
1.00000    -0.212945    -8.638032   -0.303938
-2.41E-07   -0.535874   -50.689760

COMB DL-G2-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.421775    5.777630    0.344105
0.001202    0.855521    12.040392
0.25000     0.421775    16.654194    0.344105
 0.001202    0.435745    35.903812
0.50000     0.421775    35.902005    0.344105
 0.001202    0.040924    47.645143
0.75000     0.421775    56.343403    0.344105
 0.001202    0.560327    32.171531
1.00000     0.421775    73.316833    0.344105
 0.001202    1.119419    11.107700

COMB DL-G2-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.431868   -72.282449   -0.462885
-2.17E-07   -1.170966   -50.160328
0.25000    -0.431868   -53.913243   -0.462885
-2.17E-07   -0.598798   -24.474896
0.50000    -0.431868   -33.159087   -0.462885
-2.17E-07   -0.049611   -21.423315
0.75000    -0.431868   -14.581006   -0.462885
-2.17E-07   -0.440702   -19.217846
1.00000    -0.431868    -7.696841   -0.462885
-2.17E-07   -0.865282   -48.390264
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4703

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.499314    4.536276    0.342596
0.001008    0.843282    11.193836
0.25000     0.499314    11.095051    0.342596
0.001008    0.423206    24.939110
0.50000     0.499314    22.701846    0.342596
0.001008    0.032242    31.534407
0.75000     0.499314    35.028397    0.342596
 0.001008    0.563674    22.086249
1.00000     0.499314    45.263698    0.342596
 0.001008    1.130486    9.501058

COMB DL-G2-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.469195   -43.816924   -0.464684
-0.000700   -1.167554   -35.431594
0.25000    -0.469195   -32.739944   -0.464684
-0.000700   -0.592290   -20.157361
0.50000    -0.469195   -20.224794   -0.464684
-0.000700   -0.046364   -18.851277
0.75000    -0.469195    -9.021858   -0.464684
-0.000700   -0.439958   -18.147894
1.00000    -0.469195    -5.021330   -0.464684
-0.000700   -0.863260   -36.525676

COMB DL-G3-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.222606    0.890354    0.097451
8.93E-06    0.233237    3.276778
0.25000     0.222606    0.901638    0.097451
8.93E-06    0.111935    2.796685
0.50000     0.222606    0.921607    0.097451
8.93E-06    0.005286    2.419326
0.75000     0.222606    0.942814    0.097451
8.93E-06    0.170094    2.186769
1.00000     0.222606    0.960423    0.097451
8.93E-06    0.340551    2.090551

COMB DL-G3-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.206410   -0.178702   -0.138075
-0.001195   -0.341026   -4.643620
0.25000    -0.206410    -0.159645   -0.138075
-0.001195   -0.169490    -5.066852
0.50000    -0.206410    -0.138114   -0.138075
-0.001195   -0.001378    -5.603332
0.75000    -0.206410    -0.118840   -0.138075
-0.001195   -0.128730    -6.233968
1.00000    -0.206410    -0.111957   -0.138075
-0.001195   -0.249393    -7.012922

COMB DL-G3-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.403829    8.266178    0.157324
8.47E-05    0.388231    15.051438
0.25000     0.403829    25.327455    0.157324
 8.47E-05    0.202876    52.916269
0.50000     0.403829    55.520098    0.157324
 8.47E-05    0.048261    71.595795
0.75000     0.403829    87.585037    0.157324
 8.47E-05    0.299911    47.474702
1.00000     0.403829   114.210025    0.157324
 8.47E-05    0.574108    14.451578

COMB DL-G3-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.276875  -113.167875   -0.239644
-0.001332   -0.615104   -73.721440
0.25000    -0.276875   -84.353434   -0.239644
-0.001332   -0.318726   -32.812411
0.50000    -0.276875   -51.797896   -0.239644
-0.001332   -0.050927   -27.855214
0.75000    -0.276875   -22.655807   -0.239644
-0.001332   -0.221731   -24.068186
1.00000    -0.276875   -12.249273   -0.239644
-0.001332   -0.416166   -69.359815
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4704

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.371208    6.814179    0.242510
0.000464    0.595424    14.190622
0.25000     0.371208    19.112516    0.242510
 0.000464    0.302087    40.974747
0.50000     0.371208    40.876380    0.242510
 0.000464    0.042047    54.052038
0.75000     0.371208    63.989856    0.242510
 0.000464    0.437309    36.408691
1.00000     0.371208    83.182036    0.242510
 0.000464    0.862949    12.498645

COMB DL-G3-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.308531   -81.628147   -0.356648
-0.001188   -0.902607   -57.414237
0.25000    -0.308531   -60.857737   -0.356648
-0.001188   -0.461253   -28.349419
0.50000    -0.308531   -37.390620   -0.356648
-0.001188   -0.052124   -25.289485
0.75000    -0.308531   -16.384031   -0.356648
-0.001188   -0.325209   -23.180151
1.00000    -0.308531    -8.882655   -0.356648
-0.001188   -0.623701   -56.562271

COMB DL-G3-4 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.456312    5.971576    0.324821
0.000857    0.800083    13.132967
0.25000     0.456312    16.177876    0.324821
 0.000857    0.403999    35.180942
0.50000     0.456312    34.239547    0.324821
 0.000857    0.039776    45.929976
0.75000     0.456312    53.421251    0.324821
 0.000857    0.549161    31.270301
1.00000     0.456312    69.348699    0.324821
 0.000857    1.094228    11.463525

COMB DL-G3-4 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.471477   -67.833313   -0.450982
-0.000990   -1.211966   -48.816043
0.25000    -0.471477   -50.596102   -0.450982
-0.000990   -0.578758   -25.720447
0.50000    -0.471477   -31.120915   -0.450982
-0.000990   -0.052363   -23.270155
0.75000    -0.471477   -13.687701   -0.450982
-0.000990   -0.422309   -21.711594
1.00000    -0.471477    -7.462364   -0.450982
-0.000990   -0.822856   -49.629117

COMB      DB ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.335905    7.458028    0.203375
0.001482    0.512057    16.782331
0.25000     0.335905    29.658766    0.203375
 0.001482    0.261450    70.218487
0.50000     0.335905    58.494887    0.203375
 0.001482    0.044130    88.443550
0.75000     0.335905    82.815917    0.203375
 0.001482    0.386802    61.396955
1.00000     0.335905   114.604098    0.203375
 0.001482    0.750146    16.079927

COMB      DB ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.344055  -112.747837   -0.310196
-0.001270   -0.789884   -79.368005
0.25000    -0.344055   -85.520459   -0.310196
-0.001270   -0.409842   -32.316687
0.50000    -0.344055   -58.531294   -0.310196
-0.001270   -0.045274   -26.231625
0.75000    -0.344055   -30.529043   -0.310196
-0.001270   -0.259169   -21.710884
1.00000    -0.344055   -11.060200   -0.310196
-0.001270   -0.505296   -71.793686
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4705

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.595661    8.266178    0.388349
0.001406    0.958210    15.051438
0.25000     0.595661    25.327455    0.388349
 0.001406    0.478658    52.916269
0.50000     0.595661    55.520098    0.388349
 0.001406    0.048261    71.595795
0.75000     0.595661    87.585037    0.388349
 0.001406    0.599019    47.474702
1.00000     0.595661   114.210025    0.388349
 0.001406    1.216274    14.451578

COMB      DL ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.552031  -113.167875   -0.498636
-0.001332   -1.247317   -73.721440
0.25000    -0.552031   -84.353434   -0.498636
-0.001332   -0.630237   -32.812411
0.50000    -0.552031   -51.797896   -0.498636
-0.001332   -0.052363   -27.855214
0.75000    -0.552031   -22.655807   -0.498636
-0.001332   -0.485090   -24.068186
1.00000    -0.552031   -12.249273   -0.498636
-0.001332   -0.965028   -69.359815

COMB      CAR ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.595661    8.266178    0.388349
0.001482    0.958210    16.782331
0.25000     0.595661    29.658766    0.388349
 0.001482    0.478658    70.218487
0.50000     0.595661    58.494887    0.388349
 0.001482    0.048261    88.443550
0.75000     0.595661    87.585037    0.388349
 0.001482    0.599019    61.396955
1.00000     0.595661   114.604098    0.388349
 0.001482    1.216274    16.079927

COMB      CAR ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.552031  -113.167875   -0.498636
-0.001332   -1.247317   -79.368005
0.25000    -0.552031   -85.520459   -0.498636
-0.001332   -0.630237   -32.812411
0.50000    -0.552031   -58.531294   -0.498636
-0.001332   -0.052363   -27.855214
0.75000    -0.552031   -30.529043   -0.498636
-0.001332   -0.485090   -24.068186
1.00000    -0.552031   -12.249273   -0.498636
-0.001332   -0.965028   -71.793686

COMB    DESIGN ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.595661    8.266178    0.388349
0.001482    0.958210    16.782331
0.25000     0.595661    29.658766    0.388349
 0.001482    0.478658    70.218487
0.50000     0.595661    58.494887    0.388349
 0.001482    0.048261    88.443550
0.75000     0.595661    87.585037    0.388349
 0.001482    0.599019    61.396955
1.00000     0.595661   114.604098    0.388349
 0.001482    1.216274    16.079927

COMB    DESIGN ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.552031  -113.167875   -0.498636
-0.001332   -1.247317   -79.368005
0.25000    -0.552031   -85.520459   -0.498636
-0.001332   -0.630237   -32.812411
0.50000    -0.552031   -58.531294   -0.498636
-0.001332   -0.052363   -27.855214
0.75000    -0.552031   -30.529043   -0.498636
-0.001332   -0.485090   -24.068186
1.00000    -0.552031   -12.249273   -0.498636
-0.001332   -0.965028   -71.793686
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4706

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      459 ================== LENGTH =     3.459749

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.217054    0.262734    0.207763
0.000613    0.365991    0.850042
0.25000     0.217054    0.288445    0.207763
0.000613    0.186295    0.882558
0.50000     0.217054    0.316030    0.207763
0.000613    0.006301    0.886075
0.75000     0.217054    0.344710    0.207763
0.000613    0.227800    0.858274
1.00000     0.217054    0.364989    0.207763
0.000613    0.465188    0.814549

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.222432   -0.212575   -0.274482
-0.000398   -0.484454   -1.628916
0.25000    -0.222432   -0.193181   -0.274482
-0.000398   -0.247044   -1.538667
0.50000    -0.222432   -0.167501   -0.274482
-0.000398   -0.009431   -1.497949
0.75000    -0.222432   -0.136917   -0.274482
-0.000398   -0.173131   -1.423223
1.00000    -0.222432   -0.114357   -0.274482
-0.000398   -0.352630   -1.412928

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.287339    0.925923    0.342105
0.001080    0.602849    1.980068
0.25000     0.287339    1.645829    0.342105
0.001080    0.307093    3.187500
0.50000     0.287339    2.413705    0.342105
0.001080    0.011743    3.559684
0.75000     0.287339    3.218443    0.342105
0.001080    0.380575    3.051659
1.00000     0.287339    3.789047    0.342105
0.001080    0.779046    1.990926

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.346788   -3.815866   -0.461451
-0.000642   -0.817476   -5.463801
0.25000    -0.346788   -3.272858   -0.461451
-0.000642   -0.418347   -4.288384
0.50000    -0.346788   -2.553794   -0.461451
-0.000642   -0.019426   -3.991800
0.75000    -0.346788   -1.697442   -0.461451
-0.000642   -0.285607   -3.698361
1.00000    -0.346788   -1.065769   -0.461451
-0.000642   -0.581172   -4.321045

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000     0.288717    1.084665    0.408809
0.001313    0.710001    2.148355
0.25000     0.288717    1.107805    0.408809
0.001313    0.356390    2.162877
0.50000     0.288717    1.132631    0.408809
0.001313    0.012325    2.151077
0.75000     0.288717    1.158353    0.408809
0.001313    0.443390    2.111091
1.00000     0.288717    1.176694    0.408809
0.001313    0.912444    2.071283

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -0.331563   -0.445061   -0.542321
-0.000515   -0.963861   -5.532322
0.25000    -0.331563   -0.427606   -0.542321
-0.000515   -0.494772   -5.392078
0.50000    -0.331563   -0.404494   -0.542321
-0.000515   -0.025390   -5.285145
Program    SAP2000    Nonlinear    Version    7.42
```

File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4707

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.331563	-0.376968	-0.542321
-0.000515	-0.350804	-5.180716	
1.00000	-0.331563	-0.356665	-0.542321
-0.000515	-0.704388	-5.121016	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.321153	7.786768	0.419533
0.001310	0.723619	11.202699	
0.25000	0.321153	21.419990	0.419533
0.001310	0.363477	34.085124	
0.50000	0.321153	36.046858	0.419533
0.001310	0.032079	41.436958	
0.75000	0.321153	51.201349	0.419533
0.001310	0.437576	32.133925	
1.00000	0.321153	62.007172	0.419533
0.001310	0.891331	11.676705	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.348526	-62.950295	-0.538649
-0.000763	-0.972268	-46.198413	
0.25000	-0.348526	-52.666889	-0.538649
-0.000763	-0.506357	-26.277583	
0.50000	-0.348526	-39.049797	-0.538649
-0.000763	-0.051536	-22.881547	
0.75000	-0.348526	-22.832627	-0.538649
-0.000763	-0.374125	-19.488913	
1.00000	-0.348526	-10.870321	-0.538649
-0.000763	-0.735693	-33.120247	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.039343	0.487817	0.135448
0.000519	0.233200	0.855312	
0.25000	0.039343	0.513528	0.135448
0.000519	0.116802	0.885796	
0.50000	0.039343	0.541113	0.135448
0.000519	0.004525	0.889299	
0.75000	0.039343	0.569692	0.135448
0.000519	0.156505	0.862711	
1.00000	0.039343	0.590071	0.135448
0.000519	0.323383	0.840199	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.116079	-0.503091	-0.192993
-0.000207	-0.344360	-2.464855	
0.25000	-0.116079	-0.483698	-0.192993
-0.000207	-0.177423	-2.358435	
0.50000	-0.116079	-0.458017	-0.192993
-0.000207	-0.010503	-2.287263	
0.75000	-0.116079	-0.427433	-0.192993
-0.000207	-0.182771	-2.217150	
1.00000	-0.116079	-0.404874	-0.192993
-0.000207	-0.235432	-2.181971	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.104775	9.640401	0.244951
0.000738	0.417072	13.244109	
0.25000	0.104775	28.306538	0.244951
0.000738	0.208946	45.014173	
0.50000	0.104775	48.333141	0.244951
0.000738	0.035006	55.120932	
0.75000	0.104775	69.082148	0.244951
0.000738	0.257429	42.402087	
1.00000	0.104775	83.877107	0.244951
0.000738	0.523886	14.397946	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.146128	-85.850142	-0.327288
-0.000103	-0.608461	-59.089915	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4708

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.146128	-71.770457	-0.327288
-0.000103	-0.325360	-31.859652	
0.50000	-0.146128	-53.126405	-0.327288
-0.000103	-0.052357	-27.249898	
0.75000	-0.146128	-30.922414	-0.327288
-0.000103	-0.231046	-22.641821	
1.00000	-0.146128	-14.544038	-0.327288
-0.000103	-0.441121	-41.323092	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.241711	8.861045	0.379892
0.001138	0.656200	12.635805	
0.25000	0.241711	25.729988	0.379892
0.001138	0.330983	41.338980	
0.50000	0.241711	43.828410	0.379892
0.001138	0.036543	50.464614	
0.75000	0.241711	62.579681	0.379892
0.001138	0.408175	38.962315	
1.00000	0.241711	75.950167	0.379892
0.001138	0.832472	13.642142	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.280659	-77.665520	-0.507923
-0.000392	-0.924823	-54.771335	
0.25000	-0.280659	-64.941441	-0.507923
-0.000392	-0.485489	-30.106912	
0.50000	-0.280659	-48.092457	-0.507923
-0.000392	-0.055086	-25.886875	
0.75000	-0.280659	-28.026289	-0.507923
-0.000392	-0.340862	-21.670010	
1.00000	-0.280659	-13.224839	-0.507923
-0.000392	-0.667833	-38.507419	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.290512	6.686552	0.393167
0.001284	0.674564	9.511291	
0.25000	0.290512	17.755109	0.393167
0.001284	0.336694	28.147363	
0.50000	0.290512	29.630388	0.393167
0.001284	0.027073	34.124991	
0.75000	0.290512	41.934034	0.393167
0.001284	0.412693	26.567528	
1.00000	0.290512	50.707078	0.393167
0.001284	0.841140	9.946167	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.312208	-51.161869	-0.506747
-0.000938	-0.912083	-39.320810	
0.25000	-0.312208	-42.812965	-0.506747
-0.000938	-0.473760	-23.137599	
0.50000	-0.312208	-31.757504	-0.506747
-0.000938	-0.047238	-20.372125	
0.75000	-0.312208	-18.591088	-0.506747
-0.000938	-0.353044	-17.610186	
1.00000	-0.312208	-8.879117	-0.506747
-0.000938	-0.692063	-28.665400	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.143336	0.699794	0.133994
0.000498	0.232070	1.043706	
0.25000	0.143336	0.725505	0.133994
0.000498	0.116225	1.057482	
0.50000	0.143336	0.753090	0.133994
0.000498	0.001853	1.054365	
0.75000	0.143336	0.781670	0.133994
0.000498	0.137654	1.027862	
1.00000	0.143336	0.802048	0.133994
0.000498	0.277571	0.985944	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4709

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.128465	-0.162203	-0.161784
-0.000979	-0.282160	-3.639691	
0.25000	-0.128465	-0.142809	-0.161784
-0.000979	-0.142221	-3.594067	
0.50000	-0.128465	-0.117129	-0.161784
-0.000979	-0.009781	-3.580183	
0.75000	-0.128465	-0.086545	-0.161784
-0.000979	-0.115799	-3.566617	
1.00000	-0.128465	-0.063985	-0.161784
-0.000979	-0.231692	-3.586719	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.228336	11.813122	0.223519
0.000684	0.383192	16.109276	
0.25000	0.228336	34.541587	0.223519
0.000684	0.194440	54.595676	
0.50000	0.228336	58.926597	0.223519
0.000684	0.037965	66.850027	
0.75000	0.228336	84.191227	0.223519
0.000684	0.223222	51.368066	
1.00000	0.228336	102.206026	0.223519
0.000684	0.441991	17.272952	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.201562	-104.355725	-0.276358
-0.001090	-0.514174	-71.793753	
0.25000	-0.201562	-87.211866	-0.276358
-0.001090	-0.275147	-38.711523	
0.50000	-0.201562	-64.510292	-0.276358
-0.001090	-0.057421	-33.170328	
0.75000	-0.201562	-37.474029	-0.276358
-0.001090	-0.212106	-27.631489	
1.00000	-0.201562	-17.531213	-0.276358
-0.001090	-0.403187	-50.452891	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.217553	8.765633	0.305825
0.001020	0.521777	11.977039	
0.25000	0.217553	24.361885	0.305825
0.001020	0.260384	38.514472	
0.50000	0.217553	41.094857	0.305825
0.001020	0.030140	46.951191	
0.75000	0.217553	58.431423	0.305825
0.001020	0.317152	36.316166	
1.00000	0.217553	70.793162	0.305825
0.001020	0.642180	12.892829	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.220191	-71.612423	-0.391853
-0.000995	-0.713557	-52.201401	
0.25000	-0.220191	-59.848322	-0.391853
-0.000995	-0.374618	-30.054766	
0.50000	-0.220191	-44.270523	-0.391853
-0.000995	-0.052291	-26.223886	
0.75000	-0.220191	-25.718263	-0.391853
-0.000995	-0.282284	-22.394120	
1.00000	-0.220191	-12.933521	-0.391853
-0.000995	-0.545261	-38.024293	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.275037	7.447408	0.380198
0.001244	0.655953	10.493766	
0.25000	0.275037	20.347869	0.380198
0.001244	0.329692	32.437427	
0.50000	0.275037	34.188568	0.380198
0.001244	0.028917	39.409057	
0.75000	0.275037	48.528533	0.380198
0.001244	0.404333	30.605470	
1.00000	0.275037	58.753561	0.380198
0.001244	0.822301	11.238063	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4710

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.296290	-59.462975	-0.496538
-0.001070	-0.895622	-45.037990	
0.25000	-0.296290	-49.732284	-0.496538
-0.001070	-0.466145	-26.179444	
0.50000	-0.296290	-36.847086	-0.496538
-0.001070	-0.050377	-22.955562	
0.75000	-0.296290	-21.501560	-0.496538
-0.001070	-0.339270	-19.734970	
1.00000	-0.296290	-10.182207	-0.496538
-0.001070	-0.666839	-32.614252	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.434644	0.347472	0.399852
0.000648	0.699686	1.590493	
0.25000	0.434644	0.356720	0.399852
0.000648	0.353794	1.594207	
0.50000	0.434644	0.375390	0.399852
0.000648	0.009227	1.611157	
0.75000	0.434644	0.394763	0.399852
0.000648	0.376174	1.627458	
1.00000	0.434644	0.411111	0.399852
0.000648	0.765512	1.649394	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.300110	-0.225919	-0.449710
-0.000366	-0.789720	-2.653434	
0.25000	-0.300110	-0.208205	-0.449710
-0.000366	-0.400351	-2.759100	
0.50000	-0.300110	-0.188481	-0.449710
-0.000366	-0.013502	-2.905044	
0.75000	-0.300110	-0.170408	-0.449710
-0.000366	-0.337983	-3.071404	
1.00000	-0.300110	-0.166673	-0.449710
-0.000366	-0.683788	-3.270516	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.503811	0.885141	0.670367
0.001064	1.170010	3.075784	
0.25000	0.503811	1.153335	0.670367
0.001064	0.590508	3.542423	
0.50000	0.503811	1.694763	0.670367
0.001064	0.016047	3.821488	
0.75000	0.503811	2.256604	0.670367
0.001064	0.633161	3.614922	
1.00000	0.503811	2.730695	0.670367
0.001064	1.291989	3.342574	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.591518	-2.634023	-0.761609
-0.000567	-1.341936	-7.314778	
0.25000	-0.591518	-2.120303	-0.761609
-0.000567	-0.682703	-6.834277	
0.50000	-0.591518	-1.548302	-0.761609
-0.000567	-0.030140	-6.905236	
0.75000	-0.591518	-1.024206	-0.761609
-0.000567	-0.570313	-7.008987	
1.00000	-0.591518	-0.915878	-0.761609
-0.000567	-1.149724	-7.771830	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.484856	1.268494	0.797022
0.001242	1.338680	4.460170	
0.25000	0.484856	1.276817	0.797022
0.001242	0.694406	4.179059	
0.50000	0.484856	1.293620	0.797022
0.001242	0.018341	4.149712	
0.75000	0.484856	1.311057	0.797022
0.001242	0.753977	4.206990	
1.00000	0.484856	1.325710	0.797022
0.001242	1.543418	4.321407	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4711

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.552270	-0.542169	-0.911975
-0.000470	-1.610113	-10.664836	
0.25000	-0.552270	-0.526226	-0.911975
-0.000470	-0.820815	-10.998229	
0.50000	-0.552270	-0.508474	-0.911975
-0.000470	-0.042127	-11.431889	
0.75000	-0.552270	-0.492209	-0.911975
-0.000470	-0.684512	-11.968108	
1.00000	-0.552270	-0.488847	-0.911975
-0.000470	-1.373906	-12.576306	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.581330	7.067752	0.781846
0.001219	1.351705	10.274567	
0.25000	0.581330	13.539068	0.781846
0.001219	0.688107	21.331637	
0.50000	0.581330	26.603355	0.781846
0.001219	0.032527	26.997577	
0.75000	0.581330	40.160207	0.781846
0.001219	0.746988	20.106717	
1.00000	0.581330	51.599693	0.781846
0.001219	1.520152	10.199186	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.535782	-51.109559	-0.904092
-0.000714	-1.607780	-39.716622	
0.25000	-0.535782	-38.713863	-0.904092
-0.000714	-0.825340	-27.183743	
0.50000	-0.535782	-24.911870	-0.904092
-0.000714	-0.061711	-25.267707	
0.75000	-0.535782	-12.265805	-0.904092
-0.000714	-0.685346	-23.513430	
1.00000	-0.535782	-9.651914	-0.904092
-0.000714	-1.360959	-36.671970	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.046561	0.459811	0.280558
0.000436	0.484663	1.583159	
0.25000	0.046561	0.469119	0.280558
0.000436	0.242885	1.572264	
0.50000	0.046561	0.487789	0.280558
0.000436	0.006717	1.599517	
0.75000	0.046561	0.507163	0.280558
0.000436	0.268669	1.638124	
1.00000	0.046561	0.523511	0.280558
0.000436	0.552414	1.706239	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283449	-0.442008	-0.327785
-0.000181	-0.580996	-4.734196	
0.25000	-0.283449	-0.424293	-0.327785
-0.000181	-0.297235	-4.741407	
0.50000	-0.283449	-0.404569	-0.327785
-0.000181	-0.013280	-4.804417	
0.75000	-0.283449	-0.386497	-0.327785
-0.000181	-0.243570	-4.943693	
1.00000	-0.283449	-0.382761	-0.327785
-0.000181	-0.486141	-5.106066	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.163649	9.260410	0.456630
0.000614	0.785838	10.937994	
0.25000	0.163649	19.109573	0.456630
0.000614	0.397833	28.255403	
0.50000	0.163649	38.993052	0.456630
0.000614	0.033669	37.171064	
0.75000	0.163649	59.626203	0.456630
0.000614	0.443152	26.547561	
1.00000	0.163649	77.036783	0.456630
0.000614	0.900709	11.244661	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4712

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.286010	-77.218282	-0.545016
-8.28E-05	-0.986534	-50.634938	
0.25000	-0.286010	-58.352378	-0.545016
-8.28E-05	-0.514877	-31.119908	
0.50000	-0.286010	-37.346129	-0.545016
-8.28E-05	-0.058227	-27.686240	
0.75000	-0.286010	-18.099171	-0.545016
-8.28E-05	-0.411531	-24.382121	
1.00000	-0.286010	-14.120901	-0.545016
-8.28E-05	-0.805468	-43.710455	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.381016	8.583154	0.719196
0.001049	1.245533	11.083811	
0.25000	0.381016	17.497340	0.719196
0.001049	0.629768	26.796181	
0.50000	0.381016	35.493289	0.719196
0.001049	0.037319	34.892976	
0.75000	0.381016	54.167744	0.719196
0.001049	0.689267	25.303642	
1.00000	0.381016	69.925545	0.719196
0.001049	1.402708	11.482539	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.502084	-70.039902	-0.839132
-0.000342	-1.501477	-48.324073	
0.25000	-0.502084	-52.964930	-0.839132
-0.000342	-0.775095	-30.674361	
0.50000	-0.502084	-33.952795	-0.839132
-0.000342	-0.064866	-27.596554	
0.75000	-0.502084	-16.532943	-0.839132
-0.000342	-0.632091	-24.674924	
1.00000	-0.502084	-12.932329	-0.839132
-0.000342	-1.253126	-42.244865	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.478334	6.181064	0.733508
0.001180	1.262456	9.019943	
0.25000	0.478334	11.556487	0.733508
0.001180	0.631894	18.601632	
0.50000	0.478334	22.408387	0.733508
0.001180	0.027961	23.292201	
0.75000	0.478334	33.669437	0.733508
0.001180	0.706940	17.515616	
1.00000	0.478334	43.171943	0.733508
0.001180	1.439719	9.279370	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.511433	-42.498787	-0.855745
-0.000897	-1.520742	-36.488867	
0.25000	-0.511433	-32.202255	-0.855745
-0.000897	-0.780161	-26.146566	
0.50000	-0.511433	-20.737577	-0.855745
-0.000897	-0.061017	-24.643733	
0.75000	-0.511433	-9.233075	-0.855745
-0.000897	-0.647768	-23.329753	
1.00000	-0.511433	-8.061836	-0.855745
-0.000897	-1.281623	-34.417293	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.239372	0.735482	0.227130
0.000450	0.384445	2.122453	
0.25000	0.239372	0.744730	0.227130
0.000450	0.187962	2.022630	
0.50000	0.239372	0.763400	0.227130
0.000450	0.002482	1.970249	
0.75000	0.239372	0.782774	0.227130
0.000450	0.226781	1.968303	
1.00000	0.239372	0.799122	0.227130
0.000450	0.459936	1.969426	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4713

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.178832	-0.150727	-0.269295
-0.001000	-0.471557	-7.045702	
0.25000	-0.178832	-0.133013	-0.269295
-0.001000	-0.238665	-7.321608	
0.50000	-0.178832	-0.113288	-0.269295
-0.001000	-0.018301	-7.660624	
0.75000	-0.178832	-0.095216	-0.269295
-0.001000	-0.205015	-8.057926	
1.00000	-0.178832	-0.091481	-0.269295
-0.001000	-0.401486	-8.491210	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.440811	12.952539	0.366866
0.000584	0.623361	14.495313	
0.25000	0.440811	26.935576	0.366866
0.000584	0.315886	39.079667	
0.50000	0.440811	55.164516	0.366866
0.000584	0.038320	51.631222	
0.75000	0.440811	84.457779	0.366866
0.000584	0.372651	36.103687	
1.00000	0.440811	109.175898	0.366866
0.000584	0.743253	14.729821	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.250465	-109.381653	-0.451341
-0.001093	-0.821258	-69.364240	
0.25000	-0.250465	-82.597383	-0.451341
-0.001093	-0.431152	-41.722591	
0.50000	-0.250465	-52.774427	-0.451341
-0.001093	-0.065282	-36.873280	
0.75000	-0.250465	-25.449168	-0.451341
-0.001093	-0.346319	-32.177751	
1.00000	-0.250465	-19.801146	-0.451341
-0.001093	-0.662207	-59.585871	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.371739	9.971731	0.549622
0.000852	0.937763	12.530500	
0.25000	0.371739	20.051170	0.549622
0.000852	0.469425	30.145274	
0.50000	0.371739	40.399531	0.549622
0.000852	0.033616	39.216030	
0.75000	0.371739	61.515091	0.549622
0.000852	0.543848	28.312625	
1.00000	0.371739	79.332735	0.549622
0.000852	1.101567	12.594587	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.327640	-78.895002	-0.660908
-0.000993	-1.186429	-56.546997	
0.25000	-0.327640	-59.588007	-0.660908
-0.000993	-0.614725	-36.881875	
0.50000	-0.327640	-38.090626	-0.660908
-0.000993	-0.068764	-33.682862	
0.75000	-0.327640	-18.393669	-0.660908
-0.000993	-0.501228	-30.642664	
1.00000	-0.327640	-14.322386	-0.660908
-0.000993	-0.975475	-50.758911	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.441409	8.489880	0.703969
0.001080	1.210195	11.474647	
0.25000	0.441409	16.854732	0.703969
0.001080	0.607174	26.093979	
0.50000	0.441409	33.741687	0.703969
0.001080	0.033569	33.639839	
0.75000	0.441409	51.265335	0.703969
0.001080	0.685292	24.627973	
1.00000	0.441409	66.052067	0.703969
0.001080	1.392383	11.654643	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.519621	-65.722526	-0.830744
-0.001035	-1.482591	-49.602324	
0.25000	-0.519621	-49.699793	-0.830744
-0.001035	-0.763807	-33.242840	
0.50000	-0.519621	-31.859275	-0.830744
-0.001035	-0.069421	-30.565788	
0.75000	-0.519621	-15.512915	-0.830744
-0.001035	-0.627233	-28.040234	
1.00000	-0.519621	-12.134187	-0.830744
-0.001035	-1.235165	-44.785213	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.321153	11.813122	0.419533
0.001313	0.723619	16.109276	
0.25000	0.321153	34.541587	0.419533
0.001313	0.363477	54.595676	
0.50000	0.321153	58.926597	0.419533
0.001313	0.037965	66.850027	
0.75000	0.321153	84.191227	0.419533
0.001313	0.443390	51.368066	
1.00000	0.321153	102.206026	0.419533
0.001313	0.912444	17.272952	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.348526	-104.355725	-0.542321
-0.001090	-0.972268	-71.793753	
0.25000	-0.348526	-87.211866	-0.542321
-0.001090	-0.506357	-38.711523	
0.50000	-0.348526	-64.510292	-0.542321
-0.001090	-0.057421	-33.170328	
0.75000	-0.348526	-37.474029	-0.542321
-0.001090	-0.374125	-27.631489	
1.00000	-0.348526	-17.531213	-0.542321
-0.001090	-0.735693	-50.452891	

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.581330	12.952539	0.797022
0.001242	1.383680	14.495313	
0.25000	0.581330	26.935576	0.797022
0.001242	0.694406	39.079667	
0.50000	0.581330	55.164516	0.797022
0.001242	0.038320	61.281222	
0.75000	0.581330	84.457779	0.797022
0.001242	0.753977	36.520687	
1.00000	0.581330	109.175898	0.797022
0.001242	1.543418	14.729821	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.591518	-109.381653	-0.911975
-0.001093	-1.610113	-69.364240	
0.25000	-0.591518	-82.597383	-0.911975
-0.001093	-0.825340	-41.722591	
0.50000	-0.591518	-52.774427	-0.911975
-0.001093	-0.069421	-36.873380	
0.75000	-0.591518	-25.449168	-0.911975
-0.001093	-0.685346	-32.177751	
1.00000	-0.591518	-19.801146	-0.911975
-0.001093	-1.373906	-59.585871	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.581330	12.952539	0.797022
0.001313	1.383680	16.109276	
0.25000	0.581330	34.541587	0.797022
0.001313	0.694406	54.595676	
0.50000	0.581330	58.926597	0.797022
0.001313	0.038320	66.850027	
0.75000	0.581330	84.457779	0.797022
0.001313	0.753977	51.368066	
1.00000	0.581330	109.175898	0.797022
0.001313	1.543418	17.272952	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.591518	-109.381653	-0.911975
-0.001093	-1.610113	-71.793753	
0.25000	-0.591518	-87.211866	-0.911975
-0.001093	-0.825340	-41.722591	
0.50000	-0.591518	-64.510292	-0.911975
-0.001093	-0.069421	-36.873380	
0.75000	-0.591518	-37.474029	-0.911975
-0.001093	-0.685346	-32.177751	
1.00000	-0.591518	-19.801146	-0.911975
-0.001093	-1.373906	-59.585871	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.581330	12.952539	0.797022
0.001313	1.383680	16.109276	
0.25000	0.581330	34.541587	0.797022
0.001313	0.694406	54.595676	
0.50000	0.581330	58.926597	0.797022
0.001313	0.038320	66.850027	
0.75000	0.581330	84.457779	0.797022
0.001313	0.753977	51.368066	
1.00000	0.581330	109.175898	0.797022
0.001313	1.543418	17.272952	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.591518	-109.381653	-0.911975
-0.001093	-1.610113	-71.793753	
0.25000	-0.591518	-87.211866	-0.911975
-0.001093	-0.825340	-41.722591	
0.50000	-0.591518	-64.510292	-0.911975
-0.001093	-0.069421	-36.873380	
0.75000	-0.591518	-37.474029	-0.911975
-0.001093	-0.685346	-32.177751	
1.00000	-0.591518	-19.801146	-0.911975
-0.001093	-1.373906	-59.585871	

ELEM 460 ========== LENGTH = 3.460020

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.211223	0.108195	0.201097
0.000395	0.345264	0.824525	
0.25000	0.211223	0.130755	0.201097
0.000395	0.171326	0.814808	
0.50000	0.211223	0.161341	0.201097
0.000395	0.003148	0.788964	
0.75000	0.211223	0.187021	0.201097
0.000395	0.226876	0.750721	
1.00000	0.211223	0.206413	0.201097
0.000395	0.452064	0.724511	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.214900	-0.351184	-0.260373
-0.000592	-0.448859	-1.427626	
0.25000	-0.214900	-0.330803	-0.260373
-0.000592	-0.223649	-1.381934	
0.50000	-0.214900	-0.302219	-0.260373
-0.000592	-0.006540	-1.437969	
0.75000	-0.214900	-0.274633	-0.260373
-0.000592	-0.176595	-1.495293	
1.00000	-0.214900	-0.248927	-0.260373
-0.000592	-0.350545	-1.584063	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.279807	1.055352	0.337863
0.000638	0.574890	2.002593	
0.25000	0.279807	1.687039	0.337863
0.000638	0.284263	2.973835	
0.50000	0.279807	2.543436	0.337863
0.000638	0.006489	3.386783	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	0.279807	3.262480	0.337863
0.000638	0.370386	2.948492	
1.00000	0.279807	3.805452	0.337863
0.000638	0.739217	1.757526	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.330182	-3.775450	-0.427210
-0.001055	-0.739173	-4.359069	
0.25000	-0.330182	-3.204793	-0.427210
-0.001055	-0.369654	-3.617073	
0.50000	-0.330182	-2.404438	-0.427210
-0.001055	-0.015350	-3.910473	
0.75000	-0.330182	-1.632020	-0.427210
-0.001055	-0.302096	-4.206621	
1.00000	-0.330182	-0.912258	-0.427210
-0.001055	-0.594349	-5.381304	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.280736	0.354943	0.430654
0.000511	0.728032	2.090704	
0.25000	0.280736	0.375247	0.430654
0.000511	0.356419	2.005171	
0.50000	0.280736	0.402774	0.430654
0.000511	0.007312	1.917324	
0.75000	0.280736	0.425886	0.430654
0.000511	0.417259	1.831094	
1.00000	0.280736	0.443339	0.430654
0.000511	0.838942	1.836892	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.311039	-1.166270	-0.487499
-0.001291	-0.847864	-5.179376	
0.25000	-0.311039	-1.147928	-0.487499
-0.001291	-0.426178	-5.062709	
0.50000	-0.311039	-1.122202	-0.487499
-0.001291	-0.021382	-5.169622	
0.75000	-0.311039	-1.097374	-0.487499
-0.001291	-0.389528	-5.277946	
1.00000	-0.311039	-1.074239	-0.487499
-0.001291	-0.762045	-5.418842	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.313114	10.869078	0.461562
0.000759	0.764865	11.692721	
0.25000	0.313114	22.831650	0.461562
0.000759	0.372285	32.031422	
0.50000	0.313114	39.049671	0.461562
0.000759	0.029039	41.204699	
0.75000	0.313114	52.666573	0.461562
0.000759	0.420104	33.799013	
1.00000	0.313114	62.949096	0.461562
0.000759	0.825726	10.919086	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.330682	-62.000228	-0.483554
-0.001295	-0.850308	-33.180018	
0.25000	-0.330682	-51.193406	-0.483554
-0.001295	-0.432022	-19.365284	
0.50000	-0.330682	-36.036683	-0.483554
-0.001295	-0.048738	-22.762079	
0.75000	-0.330682	-21.409023	-0.483554
-0.001295	-0.437166	-26.161567	
1.00000	-0.330682	-7.778517	-0.483554
-0.001295	-0.836419	-46.092332	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.038309	0.402364	0.153057
0.000207	0.255045	0.844848	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	0.038309	0.424924	0.153057
0.000207	0.123760	0.821941	
0.50000	0.038309	0.455509	0.153057
0.000207	0.002743	0.799993	
0.75000	0.038309	0.481190	0.153057
0.000207	0.141938	0.758046	
1.00000	0.038309	0.500581	0.153057
0.000207	0.286566	0.730115	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.101938	-0.592804	-0.167205
-0.000519	-0.292011	-2.210121	
0.25000	-0.101938	-0.572423	-0.167205
-0.000519	-0.147389	-2.167892	
0.50000	-0.101938	-0.543839	-0.167205
-0.000519	-0.009515	-2.239326	
0.75000	-0.101938	-0.516253	-0.167205
-0.000519	-0.142148	-2.312118	
1.00000	-0.101938	-0.490547	-0.167205
-0.000519	-0.274543	-2.420033	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.103171	14.549550	0.294644
0.000103	0.473971	14.406961	
0.25000	0.103171	30.928292	0.294644
0.000103	0.228246	42.342141	
0.50000	0.103171	53.133446	0.294644
0.000103	0.033271	54.981045	
0.75000	0.103171	71.777238	0.294644
0.000103	0.230775	44.796610	
1.00000	0.103171	85.855714	0.294644
0.000103	0.445804	13.025160	

COMB DB-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.131047	-83.881792	-0.268615
-0.000739	-0.487591	-41.367090	
0.25000	-0.131047	-69.085464	-0.268615
-0.000739	-0.355709	-22.566573	
0.50000	-0.131047	-48.333403	-0.268615
-0.000739	-0.051316	-27.177267	
0.75000	-0.131047	-28.305716	-0.268615
-0.000739	-0.296481	-31.789930	
1.00000	-0.131047	-9.643297	-0.268615
-0.000739	-0.551349	-59.033750	

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.236354	13.224075	0.419014
0.000390	0.691276	13.658521	
0.25000	0.236354	28.025855	0.419014
0.000390	0.336882	38.873591	
0.50000	0.236354	48.093075	0.419014
0.000390	0.032454	50.261425	
0.75000	0.236354	64.941825	0.419014
0.000390	0.380736	41.037221	
1.00000	0.236354	77.668521	0.419014
0.000390	0.746616	12.335884	

COMB DB-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.262407	-75.945147	-0.441060
-0.001126	-0.783051	-38.564606	
0.25000	-0.262407	-62.573424	-0.441060
-0.001126	-0.401509	-21.566113	
0.50000	-0.262407	-43.819392	-0.441060
-0.001126	-0.051963	-25.765824	
0.75000	-0.262407	-25.719900	-0.441060
-0.001126	-0.401347	-30.008076	
1.00000	-0.262407	-8.854408	-0.441060
-0.001126	-0.763804	-54.683681	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.282978	8.879211	0.442822
0.000934	0.732843	9.965400	
0.25000	0.282978	18.591398	0.442822
0.000934	0.355216	26.463093	
0.50000	0.282978	31.758504	0.442822
0.000934	0.025757	33.890597	
0.75000	0.282978	42.813811	0.442822
0.000934	0.397473	27.797514	
1.00000	0.282978	51.161998	0.442822
0.000934	0.782807	9.257784	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.296215	-50.706291	-0.457338
-0.001273	-0.801984	-28.731994	
0.25000	-0.296215	-41.932435	-0.457338
-0.001273	-0.406354	-17.475755	
0.50000	-0.296215	-29.626977	-0.457338
-0.001273	-0.045778	-20.243551	
0.75000	-0.296215	-17.751056	-0.457338
-0.001273	-0.419748	-23.013492	
1.00000	-0.296215	-6.684704	-0.457338
-0.001273	-0.802796	-39.207113	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.139061	0.075962	0.145488
0.000977	0.244144	0.993578	
0.25000	0.139061	0.098523	0.145488
0.000977	0.118758	0.986217	
0.50000	0.139061	0.129108	0.145488
0.000977	0.005420	0.963263	
0.75000	0.139061	0.154789	0.145488
0.000977	0.119915	0.919857	
1.00000	0.139061	0.174180	0.145488
0.000977	0.294441	0.886031	

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.126348	-0.811482	-0.167109
-0.000496	-0.283804	-3.613225	
0.25000	-0.126348	-0.791101	-0.167109
-0.000496	-0.139250	-3.496929	
0.50000	-0.126348	-0.762517	-0.167109
-0.000496	-0.011179	-3.514567	
0.75000	-0.126348	-0.734930	-0.167109
-0.000496	-0.137872	-3.532539	
1.00000	-0.126348	-0.709225	-0.167109
-0.000496	-0.263720	-3.581890	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.223162	17.543614	0.272585
0.001088	0.430968	17.281568	
0.25000	0.223162	37.486875	0.272585
0.001088	0.205092	51.315645	
0.50000	0.223162	64.524556	0.272585
0.001088	0.041931	66.724810	
0.75000	0.223162	87.225812	0.272585
0.001088	0.232966	54.418812	
1.00000	0.223162	104.368199	0.272585
0.001088	0.434124	15.905373	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.198418	-102.214374	-0.257003
-0.000695	-0.459923	-50.489958	
0.25000	-0.198418	-84.197909	-0.257003
-0.000695	-0.237611	-27.543728	
0.50000	-0.198418	-58.929559	-0.257003
-0.000695	-0.059610	-33.087334	
0.75000	-0.198418	-34.543229	-0.257003
-0.000695	-0.283511	-38.634482	
1.00000	-0.198418	-11.819292	-0.257003
-0.000695	-0.519299	-71.735185	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.212155	12.045860	0.371987
0.000993	0.602546	12.909388	
0.25000	0.212155	25.730908	0.371987
0.000993	0.287615	36.229182	
0.50000	0.212155	44.284140	0.371987
0.000993	0.032810	46.753694	
0.75000	0.212155	59.861721	0.371987
0.000993	0.308777	38.205761	
1.00000	0.212155	71.624812	0.371987
0.000993	0.599035	11.646592	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.207300	-70.804354	-0.352276
-0.001030	-0.623141	-38.084267	
0.25000	-0.207300	-58.441472	-0.352276
-0.001030	-0.318395	-22.266464	
0.50000	-0.207300	-41.102353	-0.352276
-0.001030	-0.053720	-26.102663	
0.75000	-0.207300	-24.368475	-0.352276
-0.001030	-0.367650	-29.940241	
1.00000	-0.207300	-8.775330	-0.352276
-0.001030	-0.689420	-52.684711	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.268117	10.188170	0.431080
0.001067	0.708824	11.566142	
0.25000	0.268117	21.507776	0.431080
0.001067	0.342256	30.503637	
0.50000	0.268117	36.854106	0.431080
0.001067	0.029175	39.179701	
0.75000	0.268117	49.739124	0.431080
0.001067	0.392167	32.090353	
1.00000	0.268117	59.468980	0.431080
0.001067	0.769032	10.131151	

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.280775	-58.758884	-0.449533
-0.001251	-0.769114	-32.682384	
0.25000	-0.280775	-48.532910	-0.449533
-0.001251	-0.400235	-19.596351	
0.50000	-0.280775	-34.190834	-0.449533
-0.001251	-0.050148	-22.822569	
0.75000	-0.280775	-20.349386	-0.449533
-0.001251	-0.413882	-26.052216	
1.00000	-0.280775	-7.451494	-0.449533
-0.001251	-0.786768	-44.923645	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.421540	0.161998	0.400191
0.000363	0.683610	1.624303	
0.25000	0.421540	0.165738	0.400191
0.000363	0.337503	1.593898	
0.50000	0.421540	0.183814	0.400191
0.000363	0.006021	1.568491	
0.75000	0.421540	0.203538	0.400191
0.000363	0.385729	1.545269	
1.00000	0.421540	0.221249	0.400191
0.000363	0.766206	1.542403	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.290168	-0.380491	-0.439518
-0.000580	-0.753924	-3.232104	
0.25000	-0.290168	-0.364144	-0.439518
-0.000580	-0.373194	-3.061580	
0.50000	-0.290168	-0.344769	-0.439518
-0.000580	-0.009348	-2.923561	
0.75000	-0.290168	-0.326099	-0.439518
-0.000580	-0.355077	-2.803267	
1.00000	-0.290168	-0.316851	-0.439518
-0.000580	-0.701136	-2.720074	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.488514	0.912439	0.693687
0.000563	1.179849	3.301618	
0.25000	0.488514	1.020913	0.693687
0.000563	0.580775	3.557088	
0.50000	0.488514	1.545097	0.693687
0.000563	0.009279	3.746196	
0.75000	0.488514	2.117891	0.693687
0.000563	0.607718	3.454888	
1.00000	0.488514	2.630713	0.693687
0.000563	1.250439	2.995253	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.574187	-2.689633	-0.719642
-0.000998	-1.238696	-7.712814	
0.25000	-0.574187	-2.215559	-0.719642
-0.000998	-0.615638	-6.993996	
0.50000	-0.574187	-1.653642	-0.719642
-0.000998	-0.022643	-6.934864	
0.75000	-0.574187	-1.112246	-0.719642
-0.000998	-0.620755	-6.923431	
1.00000	-0.574187	-0.844058	-0.719642
-0.000998	-1.220649	-7.414227	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.469376	0.500392	0.840392
0.000467	1.425290	4.282879	
0.25000	0.469376	0.503759	0.840392
0.000467	0.698602	4.136586	
0.50000	0.469376	0.520026	0.840392
0.000467	0.011475	4.046106	
0.75000	0.469376	0.537778	0.840392
0.000467	0.734734	4.082155	
1.00000	0.469376	0.553718	0.840392
0.000467	1.469825	4.360646	

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.532333	-1.284291	-0.849162
-0.001183	-1.466591	-12.518176	
0.25000	-0.532333	-1.269578	-0.849162
-0.001183	-0.731207	-11.960909	
0.50000	-0.532333	-1.252140	-0.849162
-0.001183	-0.034364	-11.474434	
0.75000	-0.532333	-1.235338	-0.849162
-0.001183	-0.755913	-11.087005	
1.00000	-0.532333	-1.227015	-0.849162
-0.001183	-1.482651	-10.792371	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.567162	9.669788	0.846993
0.000710	1.421707	10.181549	
0.25000	0.567162	12.287191	0.846993
0.000710	0.695719	20.050610	
0.50000	0.567162	24.935401	0.846993
0.000710	0.029524	26.892993	
0.75000	0.567162	38.737212	0.846993
0.000710	0.737894	21.221682	
1.00000	0.567162	51.130570	0.846993
0.000710	1.461228	10.156753	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.520001	-51.564773	-0.844314
-0.001183	-1.464091	-36.637258	
0.25000	-0.520001	-40.125696	-0.844314
-0.001183	-0.733511	-23.517154	
0.50000	-0.520001	-26.567026	-0.844314
-0.001183	-0.057596	-25.315021	
0.75000	-0.520001	-13.503506	-0.844314
-0.001183	-0.780780	-27.269802	
1.00000	-0.520001	-7.032329	-0.844314
-0.001183	-1.513262	-39.839506	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
4721

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.045909	0.390440	0.312018
0.000180	0.526312	1.692280	
0.25000	0.045909	0.394181	0.312018
0.000180	0.257005	1.609131	
0.50000	0.045909	0.412256	0.312018
0.000180	0.003394	1.561294	
0.75000	0.045909	0.431980	0.312018
0.000180	0.248679	1.524533	
1.00000	0.045909	0.449691	0.312018
0.000180	0.500338	1.535642	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.274564	-0.516286	-0.290427
-0.000436	-0.503966	-5.088222	
0.25000	-0.274564	-0.499939	-0.290427
-0.000436	-0.252484	-4.941304	
0.50000	-0.274564	-0.480563	-0.290427
-0.000436	-0.015891	-4.842211	
0.75000	-0.274564	-0.461894	-0.290427
-0.000436	-0.283518	-4.769016	
1.00000	-0.274564	-0.452646	-0.290427
-0.000436	-0.553433	-4.770928	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.160766	14.138103	0.518098
8.25E-05	0.857914	11.235676	
0.25000	0.160766	18.121718	0.518098
8.25E-05	0.419894	26.511161	
0.50000	0.160766	37.371941	0.518098
8.25E-05	0.019862	37.107069	
0.75000	0.160766	58.377912	0.518098
8.25E-05	0.417778	28.164712	
1.00000	0.160766	77.240258	0.518098
8.25E-05	0.821399	10.879536	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.276215	-77.026981	-0.479541
-0.000615	-0.844944	-43.694719	
0.25000	-0.276215	-59.617025	-0.479541
-0.000615	-0.430484	-24.385300	
0.50000	-0.276215	-38.981106	-0.479541
-0.000615	-0.055084	-27.718241	
0.75000	-0.276215	-19.098792	-0.479541
-0.000615	-0.492635	-31.176908	
1.00000	-0.276215	-9.249842	-0.479541
-0.000615	-0.941045	-50.719233	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.373031	12.944929	0.782437
0.000340	1.311408	11.454764	
0.25000	0.373031	16.550381	0.782437
0.000340	0.643770	25.244586	
0.50000	0.373031	33.973188	0.782437
0.000340	0.031314	34.801985	
0.75000	0.373031	52.985072	0.782437
0.000340	0.665601	26.678065	
1.00000	0.373031	70.056823	0.782437
0.000340	1.315857	10.998150	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.486352	-69.896006	-0.763105
-0.001006	-1.330466	-42.202366	
0.25000	-0.486352	-54.138770	-0.763105
-0.001006	-0.670631	-24.670430	
0.50000	-0.486352	-35.461810	-0.763105
-0.001006	-0.058635	-27.638435	
0.75000	-0.486352	-17.466916	-0.763105
-0.001006	-0.746626	-30.740335	
1.00000	-0.486352	-8.552923	-0.763105
-0.001006	-1.401711	-48.430949	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
4722

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.471198	8.087780	0.814725
0.000876	1.364136	9.276566	
0.25000	0.471198	10.261935	0.814725
0.000876	0.664847	17.462607	
0.50000	0.471198	20.768219	0.814725
0.000876	0.027017	23.186313	
0.75000	0.471198	32.232746	0.814725
0.000876	0.693681	18.470306	
1.00000	0.471198	42.527336	0.814725
0.000876	1.376004	9.381639	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.499321	-43.147899	-0.795302
-0.001144	-1.378781	-34.402208	
0.25000	-0.499321	-33.645986	-0.795302
-0.001144	-0.690955	-23.342672	
0.50000	-0.499321	-22.383425	-0.795302
-0.001144	-0.059429	-24.687433	
0.75000	-0.499321	-11.532162	-0.795302
-0.001144	-0.753758	-26.203010	
1.00000	-0.499321	-6.156855	-0.795302
-0.001144	-1.458842	-36.571170	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.239143	0.116796	0.272365
0.000999	0.451896	2.006298	
0.25000	0.239143	0.120537	0.272365
0.000999	0.216278	1.966896	
0.50000	0.239143	0.138612	0.272365
0.000999	0.009262	1.929956	
0.75000	0.239143	0.158336	0.272365
0.000999	0.238049	1.943305	
1.00000	0.239143	0.176047	0.272365
0.000999	0.470400	2.050723	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.178587	-0.808755	-0.268592
-0.000448	-0.458909	-8.527946	
0.25000	-0.178587	-0.792407	-0.268592
-0.000448	-0.226454	-8.081085	
0.50000	-0.178587	-0.773031	-0.268592
-0.000448	-0.024163	-7.669593	
0.75000	-0.178587	-0.754362	-0.268592
-0.000448	-0.256211	-7.316334	
1.00000	-0.178587	-0.745114	-0.268592
-0.000448	-0.490919	-7.026923	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.438859	19.828085	0.446238
0.001091	0.720656	14.776380	
0.25000	0.438859	25.483695	0.446238
0.001091	0.349710	36.517979	
0.50000	0.438859	52.815589	0.446238
0.001091	0.047047	51.574787	
0.75000	0.438859	82.636151	0.446238
0.001091	0.387724	38.974657	
1.00000	0.438859	109.415369	0.446238
0.001091	0.741874	14.395464	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251107	-109.181321	-0.428094
-0.000582	-0.750982	-59.633384	
0.25000	-0.251107	-84.464088	-0.428094
-0.000582	-0.381213	-32.200901	
0.50000	-0.251107	-55.166896	-0.428094
-0.000582	-0.072098	-36.894391	
0.75000	-0.251107	-26.939611	-0.428094
-0.000582	-0.447106	-41.737470	
1.00000	-0.251107	-12.956877	-0.428094
-0.000582	-0.832913	-69.383277	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
4723

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.369429	14.360008	0.645646
0.000991	1.062948	12.628618	
0.25000	0.369429	18.436760	0.645646
0.000991	0.515413	28.286171	
0.50000	0.369429	38.137059	0.645646
0.000991	0.039129	39.128434	
0.75000	0.369429	59.634155	0.645646
0.000991	0.538482	29.996019	
1.00000	0.369429	78.937509	0.645646
0.000991	1.055905	12.418607	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.320827	-79.333969	-0.611224
-0.000851	-1.066733	-50.787796	
0.25000	-0.320827	-61.516963	-0.611224
-0.000851	-0.538162	-30.670851	
0.50000	-0.320827	-40.395571	-0.611224
-0.000851	-0.072676	-33.719440	
0.75000	-0.320827	-20.051403	-0.611224
-0.000851	-0.619136	-36.922840	
1.00000	-0.320827	-9.972182	-0.611224
-0.000851	-1.177877	-56.601049	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.437070	12.164618	0.797020
0.001032	1.326006	11.667409	
0.25000	0.437070	15.547885	0.797020
0.001032	0.645954	24.584425	
0.50000	0.437070	31.897018	0.797020
0.001032	0.035207	33.538884	
0.75000	0.437070	49.737301	0.797020
0.001032	0.673563	25.938219	
1.00000	0.437070	65.757012	0.797020
0.001032	1.328745	11.352887	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.508193	-66.039736	-0.768106
-0.001078	-1.335013	-44.238347	
0.25000	-0.508193	-51.253534	-0.768106
-0.001078	-0.670591	-28.052457	
0.50000	-0.508193	-33.727535	-0.768106
-0.001078	-0.070029	-30.595115	
0.75000	-0.508193	-16.841570	-0.768106
-0.001078	-0.747801	-33.288914	
1.00000	-0.508193	-8.476899	-0.768106
-0.001078	-1.437281	-49.669212	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.313114	17.543614	0.461562
0.001088	0.764865	17.281568	
0.25000	0.313114	37.486875	0.461562
0.001088	0.372285	51.315645	
0.50000	0.313114	64.524556	0.461562
0.001088	0.041931	66.724810	
0.75000	0.313114	87.225812	0.461562
0.001088	0.420104	54.418812	
1.00000	0.313114	104.368199	0.461562
0.001088	0.838942	15.905373	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.330682	-102.214374	-0.487499
-0.001295	-0.850308	-50.489958	
0.25000	-0.330682	-84.197909	-0.487499
-0.001295	-0.432022	-27.543728	
0.50000	-0.330682	-58.929559	-0.487499
-0.001295	-0.059610	-33.087334	
0.75000	-0.330682	-34.543229	-0.487499
-0.001295	-0.437166	-38.634482	
1.00000	-0.330682	-11.819292	-0.487499
-0.001295	-0.836419	-71.735185	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
4724

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.567162	19.828085	0.846993
0.001091	1.425290	14.776380	
0.25000	0.567162	25.483695	0.846993
0.001091	0.698602	36.517979	
0.50000	0.567162	52.813589	0.846993
0.001091	0.047047	51.574787	
0.75000	0.567162	82.636151	0.846993
0.001091	0.737894	38.974657	
1.00000	0.567162	109.415369	0.846993
0.001091	1.469825	14.395464	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.574187	-109.181321	-0.849162
-0.001183	-1.466591	-59.633384	
0.25000	-0.574187	-84.464088	-0.849162
-0.001183	-0.733511	-32.200901	
0.50000	-0.574187	-55.166896	-0.849162
-0.001183	-0.072676	-36.894391	
0.75000	-0.574187	-26.939611	-0.849162
-0.001183	-0.780780	-41.737470	
1.00000	-0.574187	-12.956877	-0.849162
-0.001183	-1.513262	-69.383277	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.567162	19.828085	0.846993
0.001091	1.425290	17.281568	
0.25000	0.567162	37.486875	0.846993
0.001091	0.698602	51.315645	
0.50000	0.567162	64.524556	0.846993
0.001091	0.047047	66.724810	
0.75000	0.567162	87.225812	0.846993
0.001091	0.737894	54.418812	
1.00000	0.567162	109.415369	0.846993
0.001091	1.469825	15.905373	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.574187	-109.181321	-0.849162
-0.001295	-1.466591	-59.633384	
0.25000	-0.574187	-84.464088	-0.849162
-0.001295	-0.733511	-32.200901	
0.50000	-0.574187	-58.929559	-0.849162
-0.001295	-0.072676	-36.894391	
0.75000	-0.574187	-34.543229	-0.849162
-0.001295	-0.780780	-41.737470	
1.00000	-0.574187	-12.956877	-0.849162
-0.001295	-1.513262	-71.735185	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.567162	19.828085	0.846993
0.001091	1.425290	17.281568	
0.25000	0.567162	37.486875	0.846993
0.001091	0.698602	51.315645	
0.50000	0.567162	64.524556	0.846993
0.001091	0.047047	66.724810	
0.75000	0.567162	87.225812	0.846993
0.001091	0.737894	54.418812	
1.00000	0.567162	109.415369	0.846993
0.001091	1.469825	15.905373	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.574187	-109.181321	-0.849162
-0.001295	-1.466591	-59.633384	
0.25000	-0.574187	-84.464088	-0.849162
-0.001295	-0.733511	-32.200901	
0.50000	-0.574187	-58.929559	-0.849162
-0.001295	-0.072676	-36.894391	
0.75000	-0.574187	-34.543229	-0.849162
-0.001295	-0.780780	-41.737470	
1.00000	-0.574187	-12.956877	-0.849162
-0.001295	-1.513262	-71.735185	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
4725

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 461 ========== LENGTH = 4.942983

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197743	0.141769	0.101452
3.89E-07	0.250115	0.689890	
0.25000	0.197743	0.163792	0.101452
3.89E-07	0.124770	0.755457	
0.50000	0.197743	0.195467	0.101452
3.89E-07	0.002492	0.803121	
0.75000	0.197743	0.225997	0.101452
3.89E-07	0.151185	0.810367	
1.00000	0.197743	0.256785	0.101452
3.89E-07	0.304664	0.783354	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206938	-0.347532	-0.124249
-0.000668	-0.309586	-1.540094	
0.25000	-0.206938	-0.311582	-0.124249
-0.000668	-0.156049	-1.611479	
0.50000	-0.206938	-0.274073	-0.124249
-0.000668	0.004368	-1.747421	
0.75000	-0.206938	-0.251455	-0.124249
-0.000668	-0.125997	-1.886796	
1.00000	-0.206938	-0.226338	-0.124249
-0.000668	-0.251365	-2.074947	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.269686	0.535685	0.178315
3.89E-07	0.436516	1.703417	
0.25000	0.269686	1.152337	0.178315
3.89E-07	0.216849	3.151418	
0.50000	0.269686	2.039214	0.178315
3.89E-07	0.005406	4.014675	
0.75000	0.269686	2.894059	0.178315
3.89E-07	0.243975	3.628439	
1.00000	0.269686	3.756126	0.178315
3.89E-07	0.491888	2.401589	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.322348	-4.244984	-0.200939
-0.001226	-0.502268	-5.311892	
0.25000	-0.322348	-3.238381	-0.200939
-0.001226	-0.254007	-3.879319	
0.50000	-0.322348	-2.468116	-0.200939
-0.001226	-0.009621	-4.178339	
0.75000	-0.322348	-1.554819	-0.200939
-0.001226	-0.224643	-4.528864	
1.00000	-0.322348	-0.851532	-0.200939
-0.001226	-0.444956	-6.179771	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.277466	0.238023	0.234458
3.50E-07	0.571438	1.783024	
0.25000	0.277466	0.257844	0.234458
3.50E-07	0.281778	2.098331	
0.50000	0.277466	0.286351	0.234458
3.50E-07	0.007159	2.612325	
0.75000	0.277466	0.313828	0.234458
3.50E-07	0.261224	3.357148	
1.00000	0.277466	0.341537	0.234458
3.50E-07	0.533230	4.359888	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.294720	-1.322063	-0.220144
-0.001483	-0.555061	-5.338809	
0.25000	-0.294720	-1.289708	-0.220144
-0.001483	-0.283030	-5.386733	
0.50000	-0.294720	-1.264949	-0.220144
-0.001483	-0.013545	-5.491538	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
4726

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.294720	-1.235593	-0.220144
-0.001483	-0.297812	-5.600793	
1.00000	-0.294720	-1.212988	-0.220144
-0.001483	-0.587520	-5.754608	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.309019	6.854650	0.259826
0.000401	0.618021	10.870978	
0.25000	0.309019	18.532495	0.259826
0.000401	0.309487	36.259626	
0.50000	0.309019	35.327717	0.259826
0.000401	0.030989	54.660758	
0.75000	0.309019	51.516344	0.259826
0.000401	0.277048	44.093581	
1.00000	0.309019	67.841741	0.259826
0.000401	0.544529	12.627377	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.313735	-69.482820	-0.222613
-0.001239	-0.566665	-46.026139	
0.25000	-0.313735	-50.420286	-0.222613
-0.001239	-0.291592	-16.699973	
0.50000	-0.313735	-35.833396	-0.222613
-0.001239	-0.035546	-18.929570	
0.75000	-0.313735	-18.537823	-0.222613
-0.001239	-0.345440	-22.696709	
1.00000	-0.313735	-5.219336	-0.222613
-0.001239	-0.666496	-51.026471	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.048753	0.084016	0.089617
4.28E-06	0.216624	0.711373	
0.25000	0.048753	0.106039	0.089617
4.28E-06	0.105964	0.769405	
0.50000	0.048753	0.137713	0.089617
4.28E-06	0.002356	0.940752	
0.75000	0.048753	0.168243	0.089617
4.28E-06	0.087716	1.326213	
1.00000	0.048753	0.199031	0.089617
4.28E-06	0.178761	1.876487	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.097956	-0.685801	-0.073889
-0.000609	-0.186798	-2.394382	
0.25000	-0.097956	-0.649851	-0.073889
-0.000609	-0.095553	-2.330768	
0.50000	-0.097956	-0.622341	-0.073889
-0.000609	-0.005534	-2.329849	
0.75000	-0.097956	-0.589723	-0.073889
-0.000609	-0.115707	-2.431517	
1.00000	-0.097956	-0.564606	-0.073889
-0.000609	-0.226395	-2.380140	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.114975	9.061322	0.177689
3.89E-07	0.410756	13.001691	
0.25000	0.114975	25.050225	0.177689
3.89E-07	0.208307	50.426020	
0.50000	0.114975	48.045663	0.177689
3.89E-07	0.036071	72.631335	
0.75000	0.114975	70.210573	0.177689
3.89E-07	0.142540	57.704143	
1.00000	0.114975	92.562744	0.177689
3.89E-07	0.270970	13.992140	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.119081	-94.201883	-0.112335
-0.000849	-0.298981	-59.002158	

Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1503.OUT

Page
< MOVING LOAD >
4727

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.119081	-68.102118	-0.112335
-0.000849	-0.160114	-17.925820	
0.50000	-0.119081	-48.130252	-0.112335
-0.000849	-0.037496	-21.696363	
0.75000	-0.119081	-24.449750	-0.112335
-0.000849	-0.248274	-26.749041	
1.00000	-0.119081	-6.214539	-0.112335
-0.000849	-0.467828	-65.428937	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.240327	8.258167	0.236475
3.50E-07	0.558764	12.288389	
0.25000	0.240327	22.707643	0.236475
3.50E-07	0.282015	46.111233	
0.50000	0.240327	43.489057	0.236475
3.50E-07	0.034472	66.196421	
0.75000	0.240327	63.519908	0.236475
3.50E-07	0.242766	52.710641	
1.00000	0.240327	83.719989	0.236475
3.50E-07	0.474918	13.265619	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.244328	-85.319245	-0.195423
-0.001295	-0.504366	-54.622479	
0.25000	-0.244328	-61.732391	-0.195423
-0.001295	-0.262848	-17.582993	
0.50000	-0.244328	-43.683437	-0.195423
-0.001295	-0.037406	-21.072863	
0.75000	-0.244328	-22.282917	-0.195423
-0.001295	-0.318162	-25.722539	
1.00000	-0.244328	-5.803409	-0.195423
-0.001295	-0.610371	-60.761745	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.282694	5.566586	0.252408
0.000696	0.601080	9.216475	
0.25000	0.282694	15.047609	0.252408
0.000696	0.299352	31.615409	
0.50000	0.282694	28.683333	0.252408
0.000696	0.027128	45.171022	
0.75000	0.282694	41.826576	0.252408
0.000696	0.265470	36.932071	
1.00000	0.282694	55.080858	0.252408
0.000696	0.522964	11.876546	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.280221	-56.850239	-0.213340
-0.001084	-0.540322	-39.151287	
0.25000	-0.280221	-41.373726	-0.213340
-0.001084	-0.276626	-14.800023	
0.50000	-0.280221	-29.530904	-0.213340
-0.001084	-0.033359	-17.042208	
0.75000	-0.280221	-15.488954	-0.213340
-0.001084	-0.334913	-20.045865	
1.00000	-0.280221	-4.675925	-0.213340
-0.001084	-0.646814	-42.989657	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.134206	0.103092	0.087533
0.001149	0.209965	0.912385	
0.25000	0.134206	0.125115	0.087533
0.001149	0.101828	1.007452	
0.50000	0.134206	0.156789	0.087533
0.001149	0.004585	1.533019	
0.75000	0.134206	0.187319	0.087533
0.001149	0.117447	2.202223	
1.00000	0.134206	0.218107	0.087533
0.001149	0.230556	2.920714	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4728

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.123584	-0.893520	-0.091529
-1.15E-05	-0.221890	-3.579621	
0.25000	-0.123584	-0.857570	-0.091529
-1.15E-05	-0.108779	-3.439759	
0.50000	-0.123584	-0.830060	-0.091529
-1.15E-05	-0.009779	-3.361670	
0.75000	-0.123584	-0.797442	-0.091529
-1.15E-05	-0.114644	-3.285359	
1.00000	-0.123584	-0.772325	-0.091529
-1.15E-05	-0.222739	-3.255366	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.219031	11.082935	0.168295
0.001276	0.382642	15.931087	
0.25000	0.219031	30.551516	0.168295
0.001276	0.195476	61.379571	
0.50000	0.219031	58.551472	0.168295
0.001276	0.044321	88.412844	
0.75000	0.219031	85.540150	0.168295
0.001276	0.179803	70.194628	
1.00000	0.219031	112.756843	0.168295
0.001276	0.328281	16.765847	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192713	-114.598426	-0.130390
-0.000123	-0.334062	-71.733122	
0.25000	-0.192713	-82.818547	-0.130390
-0.000123	-0.172910	-21.652834	
0.50000	-0.192713	-58.500187	-0.130390
-0.000123	-0.046854	-26.179202	
0.75000	-0.192713	-29.666077	-0.130390
-0.000123	-0.241690	-32.264682	
1.00000	-0.192713	-7.462320	-0.130390
-0.000123	-0.449608	-79.295503	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216750	7.645976	0.224600
0.001155	0.525339	11.658530	
0.25000	0.216750	21.005299	0.224600
0.001155	0.262079	43.142276	
0.50000	0.216750	40.218843	0.224600
0.001155	0.034467	62.241649	
0.75000	0.216750	58.738450	0.224600
0.001155	0.214185	50.496781	
1.00000	0.216750	77.414519	0.224600
0.001155	0.411895	14.712199	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.190476	-79.458971	-0.166970
-0.000583	-0.425635	-52.660563	
0.25000	-0.190476	-57.651647	-0.166970
-0.000583	-0.219284	-18.245420	
0.50000	-0.190476	-40.964410	-0.166970
-0.000583	-0.040719	-21.301291	
0.75000	-0.190476	-21.178470	-0.166970
-0.000583	-0.307680	-25.428255	
1.00000	-0.190476	-5.942273	-0.166970
-0.000583	-0.585184	-57.651978	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.270098	6.374126	0.250459
0.000963	0.593277	10.120859	
0.25000	0.270098	17.424308	0.250459
0.000963	0.295591	36.188155	
0.50000	0.270098	33.316817	0.250459
0.000963	0.030086	51.993079	
0.75000	0.270098	48.635334	0.250459
0.000963	0.266961	42.331700	
1.00000	0.270098	64.083270	0.250459
0.000963	0.522121	12.968105	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4729

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.266198	-65.995497	-0.212284
-0.000952	-0.537349	-44.878707	
0.25000	-0.266198	-47.957540	-0.212284
-0.000952	-0.274986	-16.455492	
0.50000	-0.266198	-34.154669	-0.212284
-0.000952	-0.037068	-19.026744	
0.75000	-0.266198	-17.788703	-0.212284
-0.000952	-0.337258	-22.484194	
1.00000	-0.266198	-5.186061	-0.212284
-0.000952	-0.646589	-49.181976	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.389321	0.246201	0.209180
2.41E-07	0.513276	1.506663	
0.25000	0.389321	0.253082	0.209180
2.41E-07	0.254689	1.498753	
0.50000	0.389321	0.272354	0.209180
2.41E-07	0.003097	1.517190	
0.75000	0.389321	0.293884	0.209180
2.41E-07	0.265131	1.547640	
1.00000	0.389321	0.312941	0.209180
2.41E-07	0.532992	1.601706	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283896	-0.347073	-0.216280
-0.000678	-0.535447	-2.686274	
0.25000	-0.283896	-0.329465	-0.216280
-0.000678	-0.267760	-2.605437	
0.50000	-0.283896	-0.306265	-0.216280
-0.000678	-0.007284	-2.597319	
0.75000	-0.283896	-0.288295	-0.216280
-0.000678	-0.262396	-2.630972	
1.00000	-0.283896	-0.277008	-0.216280
-0.000678	-0.520820	-2.739784	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.476636	0.576422	0.369501
2.41E-07	0.905048	2.938426	
0.25000	0.476636	0.775964	0.369501
2.41E-07	0.448949	3.504899	
0.50000	0.476636	1.334848	0.369501
2.41E-07	0.006375	3.988923	
0.75000	0.476636	1.959215	0.369501
2.41E-07	0.424374	3.866378	
1.00000	0.476636	2.511876	0.369501
2.41E-07	0.854507	3.496504	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.498605	-2.907341	-0.347597
-0.001232	-0.862925	-7.368330	
0.25000	-0.498605	-2.396708	-0.347597
-0.001232	-0.432607	-6.081502	
0.50000	-0.498605	-1.781900	-0.347597
-0.001232	-0.015830	-5.855356	
0.75000	-0.498605	-1.202753	-0.347597
-0.001232	-0.465204	-5.793655	
1.00000	-0.498605	-0.875434	-0.347597
-0.001232	-0.921706	-6.511811	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.476164	0.420812	0.450599
6.94E-06	1.102799	4.305511	
0.25000	0.476164	0.427005	0.450599
6.94E-06	0.546479	4.240482	
0.50000	0.476164	0.444350	0.450599
6.94E-06	0.010599	4.426523	
0.75000	0.476164	0.463727	0.450599
6.94E-06	0.486613	4.969470	
1.00000	0.476164	0.480878	0.450599
6.94E-06	0.980655	5.714399	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4730

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.450645	-1.455330	-0.401299
-0.001406	-1.001281	-10.754417	
0.25000	-0.450645	-1.439483	-0.401299
-0.001406	-0.504260	-9.783200	
0.50000	-0.450645	-1.420402	-0.401299
-0.001406	-0.025092	-9.051247	
0.75000	-0.450645	-1.402429	-0.401299
-0.001406	-0.568255	-8.503701	
1.00000	-0.450645	-1.392271	-0.401299
-0.001406	-1.124524	-8.141723	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.549449	6.091187	0.465026
0.000390	1.126182	10.122479	
0.25000	0.549449	22.699782	0.465026
0.000390	0.561739	25.216361	
0.50000	0.549449	24.391481	0.465026
0.000390	0.032018	36.397039	
0.75000	0.549449	39.457039	0.465026
0.000390	0.501386	28.174368	
1.00000	0.549449	52.792363	0.465026
0.000390	0.997654	11.249116	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.458705	-53.929137	-0.404713
-0.001166	-1.013009	-39.824661	
0.25000	-0.458705	-41.607907	-0.404713
-0.001166	-0.511984	-18.185131	
0.50000	-0.458705	-26.773032	-0.404713
-0.001166	-0.043751	-19.438294	
0.75000	-0.458705	-12.798604	-0.404713
-0.001166	-0.561483	-21.351644	
1.00000	-0.458705	-4.900625	-0.404713
-0.001166	-1.175233	-40.034432	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.067232	0.128465	0.171685
2.41E-06	0.419463	1.516194	
0.25000	0.067232	0.135346	0.171685
2.41E-06	0.207352	1.513031	
0.50000	0.067232	0.154617	0.171685
2.41E-06	0.003694	1.641916	
0.75000	0.067232	0.176147	0.171685
2.41E-06	0.159614	1.892906	
1.00000	0.067232	0.195205	0.171685
2.41E-06	0.324817	2.228234	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.194349	-0.713840	-0.133409
-0.000573	-0.334094	-4.763182	
0.25000	-0.194349	-0.696232	-0.133409
-0.000573	-0.168829	-4.210117	
0.50000	-0.194349	-0.675032	-0.133409
-0.000573	-0.010442	-3.796347	
0.75000	-0.194349	-0.655061	-0.133409
-0.000573	-0.217142	-3.488928	
1.00000	-0.194349	-0.643774	-0.133409
-0.000573	-0.429211	-3.260117	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.178999	8.667292	0.289777
2.41E-07	0.694896	10.862588	
0.25000	0.178999	15.995310	0.289777
2.41E-07	0.352559	34.109725	
0.50000	0.178999	36.519830	0.289777
2.41E-07	0.036944	51.127436	
0.75000	0.178999	59.449189	0.289777
2.41E-07	0.274587	38.083847	
1.00000	0.178999	79.745181	0.289777
2.41E-07	0.538870	11.579734	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4731

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.194689	-80.702650	-0.218523
-0.000739	-0.558477	-50.721529	
0.25000	-0.194689	-61.950083	-0.218523
-0.000739	-0.288074	-18.597940	
0.50000	-0.194689	-39.371816	-0.218523
-0.000739	-0.041999	-21.110471	
0.75000	-0.194689	-18.103126	-0.218523
-0.000739	-0.384317	-24.499267	
1.00000	-0.194689	-6.082622	-0.218523
-0.000739	-0.741121	-53.241411	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.387346	7.988885	0.427031
2.17E-07	1.033366	10.957897	
0.25000	0.387346	14.621257	0.427031
2.17E-07	0.519699	31.981667	
0.50000	0.387346	33.197393	0.427031
2.17E-07	0.035706	47.410070	
0.75000	0.387346	53.950078	0.427031
2.17E-07	0.443830	35.646627	
1.00000	0.387346	72.319380	0.427031
2.17E-07	0.879847	11.775636	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.386519	-73.289570	-0.357478
-0.001191	-0.901613	-48.401886	
0.25000	-0.386519	-56.317176	-0.357478
-0.001191	-0.459113	-19.275430	
0.50000	-0.386519	-35.882255	-0.357478
-0.001191	-0.044101	-21.539956	
0.75000	-0.386519	-16.632592	-0.357478
-0.001191	-0.554454	-24.629427	
1.00000	-0.386519	-5.753189	-0.357478
-0.001191	-1.080966	-50.698469	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.463005	5.071104	0.453731
0.000681	1.097330	9.365951	
0.25000	0.463005	9.069550	0.453731
0.000681	0.545085	21.899525	
0.50000	0.463005	20.271313	0.453731
0.000681	0.030142	31.291754	
0.75000	0.463005	32.785576	0.453731
0.000681	0.472393	24.656215	
1.00000	0.463005	43.862614	0.453731
0.000681	0.942100	10.883320	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.429100	-45.239200	-0.382100
-0.000998	-0.954905	-36.571753	
0.25000	-0.429100	-35.004524	-0.382100
-0.000998	-0.481715	-18.233230	
0.50000	-0.429100	-22.681879	-0.382100
-0.000998	-0.044331	-18.982452	
0.75000	-0.429100	-11.073967	-0.382100
-0.000998	-0.588234	-20.321201	
1.00000	-0.429100	-4.513480	-0.382100
-0.000998	-1.148155	-35.628721	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.211297	0.142277	0.164400
0.001194	0.392498	2.079695	
0.25000	0.211297	0.149158	0.164400
0.001194	0.189578	2.144413	
0.50000	0.211297	0.168430	0.164400
0.001194	0.008784	2.343632	
0.75000	0.211297	0.189960	0.164400
0.001194	0.180540	2.688220	
1.00000	0.211297	0.209017	0.164400
0.001194	0.356054	3.136285	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4732

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.197370	-0.957995	-0.142057
-9.25E-06	-0.346221	-7.069711	
0.25000	-0.197370	-0.940387	-0.142057
-9.25E-06	-0.170700	-6.290406	
0.50000	-0.197370	-0.919186	-0.142057
-9.25E-06	-0.017950	-5.657973	
0.75000	-0.197370	-0.899216	-0.142057
-9.25E-06	-0.217055	-5.119540	
1.00000	-0.197370	-0.887929	-0.142057
-9.25E-06	-0.419976	-4.693656	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.387773	12.296061	0.269848
0.001285	0.631313	14.431257	
0.25000	0.387773	22.699782	0.269848
0.001285	0.319046	47.397399	
0.50000	0.387773	51.838819	0.269848
0.001285	0.052894	71.454466	
0.75000	0.387773	84.392050	0.269848
0.001285	0.501386	52.738197	
1.00000	0.387773	113.206641	0.269848
0.001285	0.555409	14.837754	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.270323	-114.203808	-0.218641
-8.49E-05	-0.550172	-69.438459	
0.25000	-0.270323	-87.580444	-0.218641
-8.49E-05	-0.280327	-24.148756	
0.50000	-0.270323	-55.525666	-0.218641
-8.49E-05	-0.056517	-27.960723	
0.75000	-0.270323	-25.330116	-0.218641
-8.49E-05	-0.375877	-32.911768	
1.00000	-0.270323	-8.264387	-0.218641
-8.49E-05	-0.708454	-73.790027	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.352191	8.938174	0.375424
0.001169	0.895189	12.440139	
0.25000	0.352191	16.437523	0.375424
0.001169	0.447208	36.288503	
0.50000	0.352191	37.441912	0.375424
0.001169	0.044978	53.864766	
0.75000	0.352191	60.907366	0.375424
0.001169	0.379366	40.739342	
1.00000	0.352191	81.677884	0.375424
0.001169	0.740216	13.909329	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.290778	-83.165880	-0.297352
-0.000464	-0.746881	-56.650571	
0.25000	-0.290778	-63.974272	-0.297352
-0.000464	-0.379035	-23.285670	
0.50000	-0.290778	-40.868119	-0.297352
-0.000464	-0.055948	-25.428693	
0.75000	-0.290778	-19.102160	-0.297352
-0.000464	-0.502365	-28.498131	
1.00000	-0.290778	-6.800614	-0.297352
-0.000464	-0.965215	-57.576355	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.427051	7.520322	0.451477
0.000974	1.085696	11.351475	
0.25000	0.427051	13.743977	0.451477
0.000974	0.541006	31.099611	
0.50000	0.427051	31.175365	0.451477
0.000974	0.039150	45.695124	
0.75000	0.427051	50.649173	0.451477
0.000974	0.466574	34.903256	
1.00000	0.427051	67.886473	0.451477
0.000974	0.920268	12.820086	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4733

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.433997	-69.326408	-0.371411
-0.000857	-0.929578	-49.690384	
0.25000	-0.433997	-53.399932	-0.371411
-0.000857	-0.470120	-21.767439	
0.50000	-0.433997	-34.224305	-0.371411
-0.000857	-0.052491	-23.409394	
0.75000	-0.433997	-16.160896	-0.371411
-0.000857	-0.593514	-25.883676	
1.00000	-0.433997	-5.951933	-0.371411
-0.000857	-1.150467	-50.003408	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.309019	11.082935	0.259826
0.001276	0.618021	15.931087	
0.25000	0.309019	30.551516	0.259826
0.001276	0.309487	61.379571	
0.50000	0.309019	58.551472	0.259826
0.001276	0.044321	88.412844	
0.75000	0.309019	85.540150	0.259826
0.001276	0.270048	70.194628	
1.00000	0.309019	112.756843	0.259826
0.001276	0.544529	16.765847	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.322348	-114.598426	-0.222613
-0.001483	-0.566665	-71.733122	
0.25000	-0.322348	-82.818547	-0.222613
-0.001483	-0.291592	-21.652834	
0.50000	-0.322348	-58.500187	-0.222613
-0.001483	-0.046854	-26.179202	
0.75000	-0.322348	-29.666077	-0.222613
-0.001483	-0.345440	-32.264682	
1.00000	-0.322348	-7.462320	-0.222613
-0.001483	-0.666496	-79.295503	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.549449	12.296061	0.465026
0.001285	1.126182	14.431257	
0.25000	0.549449	22.699782	0.465026
0.001285	0.561739	47.397399	
0.50000	0.549449	51.838819	0.465026
0.001285	0.052894	71.454466	
0.75000	0.549449	84.392050	0.465026
0.001285	0.501386	52.738197	
1.00000	0.549449	113.206641	0.465026
0.001285	0.997654	14.837754	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.498605	-114.203808	-0.404713
-0.001406	-1.013009	-69.438459	
0.25000	-0.498605	-87.580444	-0.404713
-0.001406	-0.511984	-24.148756	
0.50000	-0.498605	-55.525666	-0.404713
-0.001406	-0.056517	-27.960723	
0.75000	-0.498605	-25.330116	-0.404713
-0.001406	-0.601483	-32.911768	
1.00000	-0.498605	-8.264387	-0.404713
-0.001406	-1.175233	-73.790027	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.549449	12.296061	0.465026
0.001285	1.126182	15.931087	
0.25000	0.549449	30.551516	0.465026
0.001285	0.561739	61.379571	
0.50000	0.549449	58.551472	0.465026
0.001285	0.052894	88.412844	
0.75000	0.549449	85.540150	0.465026
0.001285	0.501386	70.194628	
1.00000	0.549449	113.206641	0.465026
0.001285	0.997654	16.765847	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4734

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.498605	-114.598426	-0.404713
-0.001483	-1.013009	-71.733122	
0.25000	-0.498605	-87.580444	-0.404713
-0.001483	-0.511984	-24.148756	
0.50000	-0.498605	-58.500187	-0.404713
-0.001483	-0.056517	-27.960723	
0.75000	-0.498605	-29.666077	-0.404713
-0.001483	-0.601483	-32.911768	
1.00000	-0.498605	-8.264387	-0.404713
-0.001483	-1.175233	-79.295503	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.549449	12.296061	0.465026
0.001285	1.126182	15.931087	
0.25000	0.549449	30.551516	0.465026
0.001285	0.561739	61.379571	

0.50000	0.549449	58.551472	0.465026
0.001285	0.052894	88.412844	
0.75000	0.549449	85.540150	0.465026
0.001285	0.501386	70.194628	
1.00000	0.549449	113.206641	0.465026
0.001285	0.997654	16.765847	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.498605	-114.598426	-0.404713
-0.001483	-1.013099	-71.733122	
0.25000	-0.498605	-87.580444	-0.404713
-0.001483	-0.511984	-24.148756	
0.50000	-0.498605	-58.500187	-0.404713
-0.001483	-0.056517	-27.960723	
0.75000	-0.498605	-29.666077	-0.404713
-0.001483	-0.601483	-32.911768	
1.00000	-0.498605	-8.264387	-0.404713
-0.001483	-1.175233	-79.295503	

ELEM 462 ========== LENGTH = 4.943754

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.191557	0.105367	0.098571
4.95E-07	0.246352	0.754446	
0.25000	0.191557	0.129317	0.098571
4.95E-07	0.124545	1.020303	
0.50000	0.191557	0.161087	0.098571
4.95E-07	0.004921	1.289447	
0.75000	0.191557	0.190917	0.098571
4.95E-07	0.130954	1.531887	
1.00000	0.191557	0.222080	0.098571
4.95E-07	0.268177	1.753781	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.200635	-0.387691	-0.111061
-0.000705	-0.260910	-2.043604	
0.25000	-0.200635	-0.356139	-0.111061
-0.000705	-0.143713	-1.977210	
0.50000	-0.200635	-0.326362	-0.111061
-0.000705	-0.007843	-1.966187	
0.75000	-0.200635	-0.294526	-0.111061
-0.000705	-0.119159	-1.956215	
1.00000	-0.200635	-0.270292	-0.111061
-0.000705	-0.240983	-2.000047	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.269593	0.507643	0.175222
2.28E-06	0.438602	2.364727	
0.25000	0.269593	1.178238	0.175222
2.28E-06	0.222554	4.234526	
0.50000	0.269593	2.067805	0.175222
2.28E-06	0.012375	5.435753	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4735

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.269593	2.903028	0.175222
2.28E-06	0.211457	5.347711	
1.00000	0.269593	3.775610	0.175222
2.28E-06	0.432370	4.302107	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.317112	-4.223404	-0.179225
-0.001260	-0.454301	-6.130749	
0.25000	-0.317112	-3.339934	-0.179225
-0.001260	-0.232802	-4.543197	
0.50000	-0.317112	-2.506174	-0.179225
-0.001260	-0.014924	-4.494048	
0.75000	-0.317112	-1.614783	-0.179225
-0.001260	-0.215447	-4.463309	
1.00000	-0.317112	-0.936209	-0.179225
-0.001260	-0.428447	-5.931811	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.297578	0.297816	0.233694
4.35E-07	0.585019	4.314818	
0.25000	0.297578	0.319370	0.233694
4.35E-07	0.296280	4.735050	
0.50000	0.297578	0.347964	0.233694
4.35E-07	0.012444	5.359389	
0.75000	0.297578	0.374810	0.233694
4.35E-07	0.221667	6.257420	
1.00000	0.297578	0.402857	0.233694
4.35E-07	0.455055	7.311087	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.287174	-1.206872	-0.188887
-0.001458	-0.479095	-5.700156	
0.25000	-0.287174	-1.178475	-0.188887
-0.001458	-0.245702	-5.507341	
0.50000	-0.287174	-1.151675	-0.188887
-0.001458	-0.018702	-5.364749	
0.75000	-0.287174	-1.123023	-0.188887
-0.001458	-0.282041	-5.223086	
1.00000	-0.287174	-1.101212	-0.188887
-0.001458	-0.570748	-5.130502	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.324943	6.551096	0.262416
0.000461	0.654312	12.581401	
0.25000	0.324943	19.250481	0.262416
0.000461	0.338538	44.038395	
0.50000	0.324943	36.096649	0.262416
0.000461	0.048444	59.617318	
0.75000	0.324943	51.913689	0.262416
0.000461	0.242703	47.805293	
1.00000	0.324943	68.438210	0.262416
0.000461	0.477093	16.084530	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.307086	-69.524368	-0.198667
-0.001210	-0.513960	-50.983798	
0.25000	-0.307086	-52.793648	-0.198667
-0.001210	-0.268430	-21.773262	
0.50000	-0.307086	-37.004310	-0.198667
-0.001210	-0.043728	-21.680783	
0.75000	-0.307086	-20.123595	-0.198667
-0.001210	-0.331396	-21.935018	
1.00000	-0.307086	-7.273102	-0.198667
-0.001210	-0.655608	-50.573747	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.071605	0.108429	0.090713
4.65E-06	0.227665	1.859802	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4736

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.071605	0.132379	0.090713
4.65E-06	0.115653	2.023420	
0.50000	0.071605	0.164149	0.090713
4.65E-06	0.008743	2.283878	
0.75000	0.071605	0.193978	0.090713
4.65E-06	0.075460	2.651399	
1.00000	0.071605	0.225142	0.090713
4.65E-06	0.154914	3.058742	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.100286	-0.589743	-0.064342
-0.000589	-0.163234	-2.362765	
0.25000	-0.100286	-0.558190	-0.064342
-0.000589	-0.083728	-2.236862	
0.50000	-0.100286	-0.528413	-0.064342
-0.000589	-0.007035	-2.165871	
0.75000	-0.100286	-0.496578	-0.064342
-0.000589	-0.109043	-2.095533	
1.00000	-0.100286	-0.472343	-0.064342
-0.000589	-0.221062	-2.078726	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.145345	8.639572	0.182716
4.86E-05	0.454448	13.964347	
0.25000	0.145345	26.027133	0.182716
4.86E-05	0.240243	56.679499	
0.50000	0.145345	49.092324	0.182716
4.86E-05	0.052147	77.513541	
0.75000	0.145345	70.748470	0.182716
4.86E-05	0.117638	60.642175	
1.00000	0.145345	93.373273	0.182716
4.86E-05	0.216989	16.368876	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.117574	-94.283871	-0.092712
-0.000774	-0.253406	-65.409570	
0.25000	-0.117574	-71.376746	-0.092712
-0.000774	-0.138828	-25.532766	
0.50000	-0.117574	-49.758530	-0.092712
-0.000774	-0.045131	-25.522484	
0.75000	-0.117574	-26.646037	-0.092712
-0.000774	-0.240288	-25.986817	
1.00000	-0.117574	-9.051586	-0.092712
-0.000774	-0.465985	-65.313621	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.264675	7.877901	0.238844
4.39E-05	0.595681	13.223075	
0.25000	0.264675	23.591370	0.238844
4.39E-05	0.311084	52.028877	
0.50000	0.264675	44.435822	0.238844
4.39E-05	0.051505	71.063319	
0.75000	0.264675	64.006892	0.238844
4.39E-05	0.205350	56.027338	
1.00000	0.264675	84.453357	0.238844
4.39E-05	0.398978	16.236775	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.238130	-85.414628	-0.167802
-0.001252	-0.441690	-60.720901	
0.25000	-0.238130	-64.713025	-0.167802
-0.001252	-0.234280	-24.666555	
0.50000	-0.238130	-45.176232	-0.167802
-0.001252	-0.046856	-24.640424	
0.75000	-0.238130	-24.289033	-0.167802
-0.001252	-0.305675	-25.043204	
1.00000	-0.238130	-8.388592	-0.167802
-0.001252	-0.600606	-60.567321	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4737

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.300331	5.386811	0.256476
0.000755	0.640706	11.831671	
0.25000	0.300331	15.597749	0.256476
0.000755	0.330807	37.462245	
0.50000	0.300331	29.374290	0.256476
0.000755	0.045638	50.284082	
0.75000	0.300331	42.215847	0.256476
0.000755	0.238463	40.970204	
1.00000	0.300331	55.631794	0.256476
0.000755	0.469936	15.578963	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.275674	-56.820342	-0.194600
-0.001047	-0.499449	-42.956907	
0.25000	-0.275674	-43.236986	-0.194600
-0.001047	-0.258941	-19.159131	
0.50000	-0.275674	-30.417920	-0.194600
-0.001047	-0.039403	-19.002572	
0.75000	-0.275674	-16.712784	-0.194600
-0.001047	-0.220920	-17.127502	
1.00000	-0.275674	-6.279711	-0.194600
-0.001047	-0.637646	-42.297651	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.130580	0.119017	0.092239
0.001168	0.227295	2.906209	
0.25000	0.130580	0.142967	0.092239
0.001168	0.115390	3.198924	
0.50000	0.130580	0.174737	0.092239
0.001168	0.011589	3.602297	
0.75000	0.130580	0.204566	0.092239
0.001168	0.122284	4.147766	
1.00000	0.130580	0.235730	0.092239
0.001168	0.243175	4.755719	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.125372	-0.817162	-0.097817
-7.27E-06	-0.240464	-3.259269	
0.25000	-0.125372	-0.785610	-0.097817
-7.27E-06	-0.119627	-3.040823	
0.50000	-0.125372	-0.755833	-0.097817
-7.27E-06	-0.008129	-2.874304	
0.75000	-0.125372	-0.723997	-0.097817
-7.27E-06	-0.116847	-2.714540	
1.00000	-0.125372	-0.699762	-0.097817
-7.27E-06	-0.230848	-2.605414	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216582	10.510061	0.175502
0.001412	0.435402	16.741465	
0.25000	0.216582	31.681691	0.175502
0.001412	0.232696	68.842749	
0.50000	0.216582	59.766580	0.175502
0.001412	0.061387	94.242049	
0.75000	0.216582	86.135771	0.175502
0.001412	0.176535	73.642928	
1.00000	0.216582	113.684430	0.175502
0.001412	0.322579	19.641731	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193285	-114.778459	-0.133128
-9.13E-05	-0.350643	-79.301514	
0.25000	-0.193205	-86.885868	-0.133128
-9.13E-05	-0.186604	-30.698112	
0.50000	-0.193205	-60.562861	-0.133128
-9.13E-05	-0.052404	-30.637551	
0.75000	-0.193205	-32.420376	-0.133128
-9.13E-05	-0.238055	-31.154532	
1.00000	-0.193205	-10.996829	-0.133128
-9.13E-05	-0.452892	-78.991297	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4738

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.240398	7.322883	0.232249
0.001222	0.579006	14.677272	
0.25000	0.240398	21.850837	0.232249
0.001222	0.301776	50.813953	
0.50000	0.240398	41.122662	0.232249
0.001222	0.055022	68.383202	
0.75000	0.240398	59.217177	0.232249
0.001222	0.201400	54.814978	
1.00000	0.240398	78.121042	0.232249
0.001222	0.385062	18.461490	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.189655	-79.459389	-0.158903
-0.000513	-0.410645	-57.643174	
0.25000	-0.189655	-60.319635	-0.158903
-0.000513	-0.214216	-24.158419	
0.50000	-0.189655	-42.256812	-0.158903
-0.000513	-0.045091	-23.983649	
0.75000	-0.189655	-22.945464	-0.158903
-0.000513	-0.298035	-24.205457	
1.00000	-0.189655	-8.244646	-0.158903
-0.000513	-0.583746	-56.898652	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.288465	6.124599	0.257215
0.001018	0.642465	12.924568	
0.25000	0.288465	18.141415	0.257215
0.001018	0.332748	42.753794	
0.50000	0.288465	34.082131	0.257215
0.001018	0.049920	57.613846	
0.75000	0.288465	49.049034	0.257215
0.001018	0.241581	46.019255	
1.00000	0.288465	64.685390	0.257215
0.001018	0.478348	16.823596	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.263970	-65.975267	-0.197686
-0.000906	-0.507275	-49.157167	
0.25000	-0.263970	-50.143793	-0.197686
-0.000906	-0.262970	-21.433686	
0.50000	-0.263970	-35.203105	-0.197686
-0.000906	-0.042397	-21.262583	
0.75000	-0.263970	-19.229698	-0.197686
-0.000906	-0.324533	-21.419519	
1.00000	-0.263970	-7.069896	-0.197686
-0.000906	-0.641299	-48.435620	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.389312	0.153730	0.205917
2.87E-07	0.515652	1.563614	
0.25000	0.389312	0.161778	0.205917
2.87E-07	0.261221	1.717442	
0.50000	0.389312	0.181195	0.205917
2.87E-07	0.007159	1.916675	
0.75000	0.389312	0.202375	0.205917
2.87E-07	0.233917	2.158217	
1.00000	0.389312	0.220967	0.205917
2.87E-07	0.479383	2.462398	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.269424	-0.406678	-0.198206
-0.000716	-0.499639	-2.700278	
0.25000	-0.269424	-0.388180	-0.198206
-0.000716	-0.254213	-2.518195	
0.50000	-0.269424	-0.367020	-0.198206
-0.000716	-0.010407	-2.557777	
0.75000	-0.269424	-0.347545	-0.198206
-0.000716	-0.248028	-2.587829	
1.00000	-0.269424	-0.339096	-0.198206
-0.000716	-0.502421	-2.714722	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4739

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.511182	0.522988	0.361865
1.50E-06	0.907782	3.430822	
0.25000	0.511182	0.756383	0.361865
1.50E-06	0.461033	4.336741	
0.50000	0.511182	1.319479	0.361865
1.50E-06	0.015702	5.082636	
0.75000	0.511182	1.933696	0.361865
1.50E-06	0.372508	5.206952	
1.00000	0.511182	2.472845	0.361865
1.50E-06	0.764173	5.190355	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.465591	-2.935177	-0.316569
-0.001265	-0.799727	-6.457764	
0.25000	-0.465591	-2.398747	-0.316569
-0.001265	-0.407857	-5.376491	
0.50000	-0.465591	-1.785097	-0.316569
-0.001265	-0.018535	-5.247636	
0.75000	-0.465591	-1.220330	-0.316569
-0.001265	-0.434882	-5.239078	
1.00000	-0.465591	-0.975298	-0.316569
-0.001265	-0.881741	-6.180368	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.521205	0.504510	0.439831
7.27E-06	1.106099	5.646167	
0.25000	0.521205	0.511753	0.439831
7.27E-06	0.563079	5.812554	
0.50000	0.521205	0.529228	0.439831
7.27E-06	0.023466	6.235670	
0.75000	0.521205	0.548290	0.439831
7.27E-06	0.415399	7.025497	
1.00000	0.521205	0.565022	0.439831
7.27E-06	0.856664	8.155464	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.411029	-1.394688	-0.356472
-0.001375	-0.903355	-8.095259	
0.25000	-0.411029	-1.378320	-0.356472
-0.001375	-0.462173	-7.489029	
0.50000	-0.411029	-1.359276	-0.356472
-0.001375	-0.024947	-7.094303	
0.75000	-0.411029	-1.341748	-0.356472
-0.001375	-0.525536	-6.897585	
1.00000	-0.411029	-1.334144	-0.356472
-0.001375	-1.069011	-7.005156	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.576170	6.009032	0.463188
0.000423	1.159573	11.197534	
0.25000	0.576170	11.640710	0.463188
0.000423	0.596270	28.768317	
0.50000	0.576170	25.227813	0.463188
0.000423	0.046730	39.481666	
0.75000	0.576170	40.048442	0.463188
0.000423	0.441813	30.665038	
1.00000	0.576170	53.057745	0.463188
0.000423	0.888631	14.494934	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.437534	-54.244983	-0.369164
-0.001140	-0.942673	-40.012280	
0.25000	-0.437534	-41.301292	-0.369164
-0.001140	-0.486087	-19.440662	
0.50000	-0.437534	-26.494339	-0.369164
-0.001140	-0.040916	-19.084618	
0.75000	-0.437534	-12.866899	-0.369164
-0.001140	-0.567802	-18.982167	
1.00000	-0.437534	-6.954445	-0.369164
-0.001140	-1.138427	-38.493376	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4740

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.109429	0.204718	0.166648
2.76E-06	0.419958	2.202286	
0.25000	0.109429	0.212767	0.166648
2.76E-06	0.213985	2.324003	
0.50000	0.109429	0.232184	0.166648
2.76E-06	0.009957	2.509677	
0.75000	0.109429	0.253364	0.166648
2.76E-06	0.136484	2.783522	
1.00000	0.109429	0.271955	0.166648
2.76E-06	0.282776	3.192576	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.175413	-0.633097	-0.117945
-0.000531	-0.299743	-3.251116	
0.25000	-0.175413	-0.614599	-0.117945
-0.000531	-0.153514	-2.948100	
0.50000	-0.175413	-0.593439	-0.117945
-0.000531	-0.008952	-2.768643	
0.75000	-0.175413	-0.573694	-0.117945
-0.000531	-0.198474	-2.665444	
1.00000	-0.175413	-0.565515	-0.117945
-0.000531	-0.404242	-2.706411	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.221795	8.550982	0.285054
4.53E-05	0.715170	11.548623	
0.25000	0.221795	17.122239	0.285054
4.53E-05	0.376814	38.243584	
0.50000	0.221795	37.801431	0.285054
4.53E-05	0.050267	54.247158	
0.75000	0.221795	60.358015	0.285054
4.53E-05	0.231571	39.957375	
1.00000	0.221795	80.157813	0.285054
4.53E-05	0.453259	14.192835	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.173431	-81.179484	-0.191355
-0.000661	-0.503902	-53.241494	
0.25000	-0.173431	-61.479546	-0.191355
-0.000661	-0.266875	-22.477632	
0.50000	-0.173431	-38.943777	-0.191355
-0.000661	-0.038606	-22.331747	
0.75000	-0.173431	-18.203193	-0.191355
-0.000661	-0.356471	-22.386716	
1.00000	-0.173431	-9.204603	-0.191355
-0.000661	-0.705570	-52.055105	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.438819	7.843375	0.419418
4.10E-05	1.052244	11.717319	
0.25000	0.438819	15.600966	0.419418
4.10E-05	0.546564	35.989105	
0.50000	0.438819	34.317091	0.419418
4.10E-05	0.051632	50.632584	
0.75000	0.438819	54.732388	0.419418
4.10E-05	0.381696	37.910525	
1.00000	0.438819	72.652599	0.419418
4.10E-05	0.763251	14.863445	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.351743	-73.740953	-0.319206
-0.001158	-0.824439	-50.666733	
0.25000	-0.351743	-55.911132	-0.319206
-0.001158	-0.429271	-22.745828	
0.50000	-0.351743	-35.514674	-0.319206
-0.001158	-0.042938	-22.576391	
0.75000	-0.351743	-16.742984	-0.319206
-0.001158	-0.516501	-22.532390	
1.00000	-0.351743	-8.598627	-0.319206
-0.001158	-1.031929	-49.459464	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4741

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.490675	5.087645	0.455719
0.000714	1.140202	10.845897	
0.25000	0.490675	9.765620	0.455719
0.000714	0.584811	25.461897	

0.50000	0.490675	21.051799	0.455719
0.000714	0.044728	34.464611	
0.75000	0.490675	33.362610	0.455719
0.000714	0.423594	27.339608	
1.00000	0.490675	44.168838	0.455719
0.000714	0.851723	14.206327	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.417165	-45.448985	-0.352866
-0.000970	-0.897894	-35.623687	
0.25000	-0.417165	-34.697259	-0.352866
-0.000970	-0.461276	-18.291578	
0.50000	-0.417165	-22.397807	-0.352866
-0.000970	-0.038611	-17.796720	
0.75000	-0.417165	-11.078122	-0.352866
-0.000970	-0.558269	-17.481705	
1.00000	-0.417165	-6.166920	-0.352866
-0.000970	-1.119513	-33.627110	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.187400	0.218961	0.179196
0.001169	0.440590	3.155494	
0.25000	0.187400	0.227009	0.179196
0.001169	0.220251	3.304013	
0.50000	0.187400	0.246426	0.179196
0.001169	0.011829	3.562593	
0.75000	0.187400	0.267606	0.179196
0.001169	0.185104	3.964924	
1.00000	0.187400	0.286197	0.179196
0.001169	0.368616	4.537027	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.227816	-0.912535	-0.148651
-7.05E-06	-0.366450	-4.730839	
0.25000	-0.227816	-0.894037	-0.148651
-7.05E-06	-0.182939	-4.183617	
0.50000	-0.227816	-0.872877	-0.148651
-7.05E-06	-0.010483	-3.757511	
0.75000	-0.227816	-0.853402	-0.148651
-7.05E-06	-0.223997	-3.462239	
1.00000	-0.227816	-0.844953	-0.148651
-7.05E-06	-0.445362	-3.335357	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.358964	12.007982	0.288685
0.001356	0.711848	14.855539	
0.25000	0.358964	24.176753	0.288685
0.001356	0.374015	52.748306	
0.50000	0.358964	53.535380	0.288685
0.001356	0.063214	75.381645	
0.75000	0.358964	85.559375	0.288685
0.001356	0.287775	54.938035	
1.00000	0.358964	113.669510	0.288685
0.001356	0.541273	18.044966	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.308154	-114.986248	-0.222186
-6.93E-05	-0.157185	-3.833056	
0.25000	-0.308154	-87.017886	-0.222186
-6.93E-05	-0.300641	-30.272202	
0.50000	-0.308154	-55.023442	-0.222186
-6.93E-05	-0.047479	-30.058691	
0.75000	-0.308154	-25.577654	-0.222186
-6.93E-05	-0.380021	-30.062418	
1.00000	-0.308154	-12.802192	-0.222186
-6.93E-05	-0.732266	-72.019804	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4742
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.355062	8.863945	0.387139
0.001184	0.963853	13.909392	
0.25000	0.355062	17.635601	0.387139
0.001184	0.499525	41.317735	
0.50000	0.355062	38.798278	0.387139
0.001184	0.058599	57.865245	
0.75000	0.355062	61.882241	0.387139
0.001184	0.351808	43.492983	
1.00000	0.355062	82.144963	0.387139
0.001184	0.688298	17.499035	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.307160	-83.641394	-0.284354
-0.000398	-0.729310	-57.618453	
0.25000	-0.307160	-63.480866	-0.284354
-0.000398	-0.537675	-25.742870	
0.50000	-0.307160	-40.418205	-0.284354
-0.000398	-0.045622	-25.251228	
0.75000	-0.307160	-19.192699	-0.284354
-0.000398	-0.488220	-25.057805	
1.00000	-0.307160	-9.983720	-0.284354
-0.000398	-0.962653	-55.261715	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.451087	7.465682	0.458330
0.000986	1.144095	12.794928	
0.25000	0.451087	14.745215	0.458330
0.000986	0.589472	35.605811	
0.50000	0.451087	32.307965	0.458330
0.000986	0.054497	49.463086	
0.75000	0.451087	51.465176	0.458330
0.000986	0.425211	37.753181	
1.00000	0.451087	68.281061	0.458330
0.000986	0.844764	16.461124	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.433231	-69.706885	-0.349326
-0.000812	-0.891604	-50.016041	
0.25000	-0.433231	-52.975790	-0.349326
-0.000812	-0.459257	-23.455801	
0.50000	-0.433231	-33.836257	-0.349326
-0.000812	-0.044444	-22.985856	
0.75000	-0.433231	-16.221366	-0.349326
-0.000812	-0.569259	-22.808923	
1.00000	-0.433231	-8.578902	-0.349326
-0.000812	-1.132346	-47.916759	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.324943	10.510061	0.262416
0.001412	0.654312	16.741465	
0.25000	0.324943	31.681691	0.262416
0.001412	0.338538	68.842749	
0.50000	0.324943	59.766580	0.262416
0.001412	0.061387	94.242049	
0.75000	0.324943	86.135771	0.262416
0.001412	0.244581	73.642928	
1.00000	0.324943	113.684430	0.262416
0.001412	0.478348	19.641731	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.317112	-114.778289	-0.198667
-0.001458	-0.513960	-79.301514	
0.25000	-0.317112	-86.885868	-0.198667
-0.001458	-0.268430	-30.698112	
0.50000	-0.317112	-60.562861	-0.198667
-0.001458	-0.052404	-30.637551	
0.75000	-0.317112	-32.420376	-0.198667
-0.001458	-0.331396	-31.154532	
1.00000	-0.317112	-10.996829	-0.198667
-0.001458	-0.555608	-78.991297	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4743
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.576170	12.007982	0.463188
0.001356	1.159573	14.855539	
0.25000	0.576170	24.176753	0.463188
0.001356	0.596270	52.748306	
0.50000	0.576170	53.535380	0.463188
0.001356	0.063214	75.381645	
0.75000	0.576170	85.559375	0.463188
0.001356	0.441813	54.938035	
1.00000	0.576170	113.669510	0.463188
0.001356	0.888631	18.044966	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.465591	-114.986248	-0.369164
-0.001375	-0.942673	-73.839056	
0.25000	-0.465591	-87.017886	-0.369164
-0.001375	-0.486087	-30.272202	
0.50000	-0.465591	-55.023442	-0.369164
-0.001375	-0.047479	-30.058691	
0.75000	-0.465591	-25.577654	-0.369164
-0.001375	-0.569259	-30.062418	
1.00000	-0.465591	-12.802192	-0.369164
-0.001375	-1.138427	-72.019804	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.576170	12.007982	0.463188
0.001412	1.159573	16.741465	
0.25000	0.576170	31.681691	0.463188
0.001412	0.596270	68.842749	
0.50000	0.576170	59.766580	0.463188
0.001412	0.063214	94.242049	
0.75000	0.576170	86.135771	0.463188
0.001412	0.441813	73.642928	
1.00000	0.576170	113.684430	0.463188
0.001412	0.888631	19.641731	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.465591	-114.986248	-0.369164
-0.001458	-0.942673	-79.301514	
0.25000	-0.465591	-87.017886	-0.369164
-0.001458	-0.486087	-30.698112	
0.50000	-0.465591	-60.562861	-0.369164
-0.001458	-0.052404	-30.637551	
0.75000	-0.465591	-32.420376	-0.369164
-0.001458	-0.569259	-31.154532	
1.00000	-0.465591	-12.802192	-0.369164
-0.001458	-1.138427	-78.991297	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.576170	12.007982	0.463188
0.001412	1.159573	16.741465	
0.25000	0.576170	31.681691	0.463188
0.001412	0.596270	68.842749	
0.50000	0.576170	59.766580	0.463188
0.001412	0.063214	94.242049	
0.75000	0.576170	86.135771	0.463188
0.001412	0.441813	73.642928	
1.00000	0.576170	113.684430	0.463188
0.001412	0.888631	19.641731	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.465591	-114.986248	-0.369164
-0.001458	-0.942673	-79.301514	
0.25000	-0.465591	-87.017886	-0.369164
-0.001458	-0.486087	-30.698112	
0.50000	-0.465591	-60.562861	-0.369164
-0.001458	-0.052404	-30.637551	
0.75000	-0.465591	-32.420376	-0.369164
-0.001458	-0.569259	-31.154532	
1.00000	-0.465591	-12.802192	-0.369164
-0.001458	-1.138427	-78.991297	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4744
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 463 ========== LENGTH = 4.942653

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.190706	0.148888	0.092108
4.01E-07	0.230175	1.718866	
0.25000	0.190706	0.172932	0.092108
4.01E-07	0.116365	2.158494	
0.50000	0.190706	0.204689	0.092108
4.01E-07	0.000933	2.584895	
0.75000	0.190706	0.234456	0.092108
4.01E-07	0.112476	2.977351	
1.00000	0.190706	0.265638	0.092108
4.01E-07	0.230204	3.343708	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.196668	-0.497250	-0.095355
-0.000595	-0.241170	-1.972489	
0.25000	-0.196668	-0.465962	-0.095355
-0.000595	-0.123382	-2.001058	
0.50000	-0.196668	-0.436209	-0.095355
-0.000595	-0.007448	-2.083673	
0.75000	-0.196668	-0.404445	-0.095355
-0.000595	-0.111313	-2.167334	
1.00000	-0.196668	-0.380281	-0.095355
-0.000595	-0.225128	-2.304764	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.267402	0.568661	0.157715
4.01E-07	0.398593	4.246759	
0.25000	0.267402	1.241912	0.157715
4.01E-07	0.204105	6.543621	
0.50000	0.267402	2.131090	0.157715
4.01E-07	0.021409	8.013667	
0.75000	0.267402	2.964581	0.157715
4.01E-07	0.182267	8.200490	
1.00000	0.267402	3.837668	0.157715
4.01E-07	0.372468	7.448468	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.314767	-4.458389	-0.154263
-0.001073	-0.390925	-5.889195	
0.25000	-0.314767	-3.582306	-0.154263
-0.001073	-0.200309	-4.488244	
0.50000	-0.314767	-2.749224	-0.154263
-0.001073	-0.014267	-4.600616	
0.75000	-0.314767	-1.659830	-0.154263
-0.001073	-0.187437	-4.742241	
1.00000	-0.314767	-1.183235	-0.154263
-0.001073	-0.382174	-6.389424	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.299248	0.347467	0.206189
0.000193	0.524308	7.262204	
0.25000	0.299248	0.369107	0.206189
0.000193	0.270022	8.139034	
0.50000	0.299248	0.397688	0.206189
0.000193	0.032759	9.292538	
0.75000	0.299248	0.424479	0.206189
0.000193	0.189213	10.713524	
1.00000	0.299248	0.452542	0.206189
0.000193	0.388445	12.308726	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283079	-1.636584	-0.161179
-0.001248	-0.408473	-5.086826	
0.25000	-0.283079	-1.608424	-0.161179
-0.001248	-0.209258	-5.188745	
0.50000	-0.283079	-1.581647	-0.161179
-0.001248	-0.017747	-5.339307	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4745
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.283079	-1.553059	-0.161179
-0.001248	-0.240922	-5.490810	
1.00000	-0.283079	-1.531311	-0.161179
-0.001248	-0.495358	-5.690705	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.326079	6.504890	0.230866
0.000532	0.592439	16.054441	
0.25000	0.326079	19.254562	0.230866
0.000532	0.112348	49.807021	
0.50000	0.326079	36.093380	0.230866
0.000532	0.064137	64.374812	
0.75000	0.326079	51.877614	0.230866
0.000532	0.216998	53.118592	
1.00000	0.326079	68.411704	0.230866
0.000532	0.425572	22.048713	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.304311	-70.059730	-0.175632
-0.001099	-0.454753	-50.526582	
0.25000	-0.304311	-53.468914	-0.175632
-0.001099	-0.237703	-21.616712	
0.50000	-0.304311	-37.692425	-0.175632
-0.001099	-0.041731	-21.365388	
0.75000	-0.304311	-20.849513	-0.175632
-0.001099	-0.284715	-21.668057	
1.00000	-0.304311	-8.036506	-0.175632
-0.001099	-0.567505	-50.482217	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070222	0.142318	0.075654
4.41E-06	0.195774	3.041588	
0.25000	0.070222	0.166363	0.075654
4.41E-06	0.102537	3.408326	
0.50000	0.070222	0.198119	0.075654
4.41E-06	0.013878	3.914426	
0.75000	0.070222	0.227887	0.075654
4.41E-06	0.106753	4.502620	
1.00000	0.070222	0.259068	0.075654
4.41E-06	0.133156	5.146674	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.102757	-0.769730	-0.055272
-0.000508	-0.140170	-2.065562	
0.25000	-0.102757	-0.738441	-0.055272
-0.000508	-0.071864	-2.060627	
0.50000	-0.102757	-0.708689	-0.055272
-0.000508	-0.006696	-2.109740	
0.75000	-0.102757	-0.676924	-0.055272
-0.000508	-0.085432	-2.159897	
1.00000	-0.102757	-0.652760	-0.055272
-0.000508	-0.178619	-2.263824	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.149008	8.563718	0.155896
0.000181	0.406645	16.371305	
0.25000	0.149008	26.020129	0.155896
0.000181	0.220808	61.890973	
0.50000	0.149008	49.075257	0.155896
0.000181	0.063160	80.967332	
0.75000	0.149008	70.686486	0.155896
0.000181	0.102811	64.459570	
1.00000	0.149008	93.324391	0.155896
0.000181	0.188431	20.697141	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.117598	-94.700930	-0.078617
-0.000668	-0.216659	-65.278202	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4746
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.117598	-71.985358	-0.078617
-0.000668	-0.119447	-25.584376	
0.50000	-0.117598	-50.384733	-0.078617
-0.000668	-0.043347	-25.128843	
0.75000	-0.117598	-27.324000	-0.078617
-0.000668	-0.197355	-25.431818	
1.00000	-0.117598	-9.780873	-0.078617
-0.000668	-0.389597	-64.771743	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.267112	7.848044	0.209905
0.000163	0.539555	16.211219	
0.25000	0.267112	23.623735	0.209905
0.000163	0.286300	57.688466	
0.50000	0.267112	44.459093	0.209905
0.000163	0.065214	75.264374	
0.75000	0.267112	63.989570	0.209905
0.000163	0.178015	60.688559	
1.00000	0.267112	84.447876	0.209905
0.000163	0.344638	21.477537	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.235145	-85.884107	-0.143306
-0.001083	-0.378587	-60.515378	
0.25000	-0.235145	-65.356413	-0.143306
-0.001083	-0.201505	-24.705190	
0.50000	-0.235145	-45.835518	-0.143306
-0.001083	-0.044919	-24.355393	
0.75000	-0.235145	-24.995095	-0.143306
-0.001083	-0.262123	-24.691073	
1.00000	-0.235145	-9.141038	-0.143306
-0.001083	-0.521152	-60.305187	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.300892	5.314496	0.226192
0.000805	0.573838	15.550834	
0.25000	0.300892	15.665716	0.226192
0.000805	0.302726	43.161567	
0.50000	0.300892	29.336835	0.226192
0.000805	0.061811	55.313001	
0.75000	0.300892	42.107757	0.226192
0.000805	0.218592	46.613649	
1.00000	0.300892	55.575474	0.226192
0.000805	0.430108	21.921723	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.274659	-57.395469	-0.176717
-0.000893	-0.453181	-42.264060	
0.25000	-0.274659	-43.925698	-0.176717
-0.000893	-0.234780	-18.798321	
0.50000	-0.274659	-31.170163	-0.176717
-0.000893	-0.037456	-18.599916	
0.75000	-0.274659	-17.442620	-0.176717
-0.000893	-0.281317	-18.851287	
1.00000	-0.274659	-7.039981	-0.176717
-0.000893	-0.560527	-42.250602	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.128715	0.158940	0.098116
0.001029	0.239535	4.737065	
0.25000	0.128715	0.182985	0.098116
0.001029	0.118358	5.268868	
0.50000	0.128715	0.214741	0.098116
0.001029	0.018650	5.967488	
0.75000	0.128715	0.244509	0.098116
0.001029	0.126113	6.833849	
1.00000	0.128715	0.275690	0.098116
0.001029	0.250738	7.673212	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4747
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.128362	-1.066595	-0.100862
-7.08E-06	-0.247837	-2.618564	
0.25000	-0.128362	-1.035307	-0.100862
-7.08E-06	-0.123200	-2.572992	
0.50000	-0.128362	-1.005554	-0.100862
-7.08E-06	-0.007411	-2.581467	
0.75000	-0.128362	-0.973739	-0.100862
-7.08E-06	-0.124261	-2.590988	
1.00000	-0.128362	-0.949626	-0.100862
-7.08E-06	-0.245516	-2.654280	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216229	10.427335	0.170874
0.001239	0.430337	19.644820	
0.25000	0.216229	31.682800	0.170874
0.001239	0.226977	75.107426	
0.50000	0.216229	59.755435	0.170874
0.001239	0.073749	98.290319	
0.75000	0.216229	86.069933	0.170874
0.001239	0.179213	78.099672	
1.00000	0.216229	113.634545	0.170874
0.001239	0.330372	24.653218	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.196074	-115.246188	-0.133799
-8.82E-05	-0.350914	-78.980896	
0.25000	-0.196074	-87.587007	-0.133799
-8.82E-05	-0.185572	-30.758516	
0.50000	-0.196074	-61.285420	-0.133799
-8.82E-05	-0.049973	-29.963896	
0.75000	-0.196074	-33.205959	-0.133799
-8.82E-05	-0.233797	-30.267876	
1.00000	-0.196074	-11.844907	-0.133799
-8.82E-05	-0.444918	-78.104451	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.241639	7.281509	0.215240
0.001219	0.545027	18.452964	
0.25000	0.241639	21.866990	0.215240
0.001219	0.284726	56.946811	
0.50000	0.241639	41.130407	0.215240
0.001219	0.070927	73.518445	
0.75000	0.241639	59.187392	0.215240
0.001219	0.195674	60.578226	
1.00000	0.241639	78.102204	0.215240
0.001219	0.374572	24.967143	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.191520	-80.069514	-0.152574
-0.000460	-0.393350	-56.885369	
0.25000	-0.191520	-61.089808	-0.152574
-0.000460	-0.204814	-23.719152	
0.50000	-0.191520	-43.041683	-0.152574
-0.000460	-0.042858	-23.337987	
0.75000	-0.191520	-23.773582	-0.152574
-0.000460	-0.274675	-23.590584	
1.00000	-0.191520	-9.115648	-0.152574
-0.000460	-0.540356	-56.460004	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.288914	6.117158	0.235109
0.001015	0.594841	16.795177	
0.25000	0.288914	18.181558	0.235109
0.001015	0.309069	48.866060	
0.50000	0.288914	34.115319	0.235109
0.001015	0.066502	62.871575	
0.75000	0.288914	49.051178	0.235109
0.001015	0.229194	52.510360	
1.00000	0.288914	64.696590	0.235109
0.001015	0.447796	23.443564	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.264999	-66.573150	-0.183349
-0.000774	-0.469962	-48.409959	
0.25000	-0.264999	-50.874061	-0.183349
-0.000774	-0.243363	-21.024215	
0.50000	-0.264999	-35.945531	-0.183349
-0.000774	-0.040353	-20.756671	
0.75000	-0.264999	-20.007895	-0.183349
-0.000774	-0.294850	-21.013344	
1.00000	-0.264999	-7.883565	-0.183349
-0.000774	-0.585083	-48.249067	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.410102	0.265934	0.182826
2.25E-07	0.463127	2.395981	
0.25000	0.410102	0.274077	0.182826
2.25E-07	0.237170	2.926893	
0.50000	0.410102	0.293490	0.182826
2.25E-07	0.013865	3.450229	
0.75000	0.410102	0.314632	0.182826
2.25E-07	0.198337	3.950603	
1.00000	0.410102	0.333180	0.182826
2.25E-07	0.408719	4.445346	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.253537	-0.545966	-0.169980
-0.000581	-0.430890	-2.660048	
0.25000	-0.253537	-0.527415	-0.169980
-0.000581	-0.220280	-2.940976	
0.50000	-0.253537	-0.506251	-0.169980
-0.000581	-0.010687	-3.260138	
0.75000	-0.253537	-0.486833	-0.169980
-0.000581	-0.214780	-3.579402	
1.00000	-0.253537	-0.478626	-0.169980
-0.000581	-0.440731	-3.926626	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.531395	0.688705	0.314656
2.25E-07	0.800677	5.079955	
0.25000	0.531395	0.924855	0.314656
2.25E-07	0.412229	6.723724	
0.50000	0.531395	1.487823	0.314656
2.25E-07	0.027916	8.088624	
0.75000	0.531395	2.100946	0.314656
2.25E-07	0.313511	8.702345	
1.00000	0.531395	2.638854	0.314656
2.25E-07	0.647402	9.043674	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.449411	-3.174117	-0.270044
-0.001018	-0.666528	-6.095329	
0.25000	-0.449411	-2.636125	-0.270044
-0.001018	-0.351765	-5.803238	
0.50000	-0.449411	-2.022675	-0.270044
-0.001018	-0.019464	-6.350334	
0.75000	-0.449411	-1.459241	-0.270044
-0.001018	-0.366872	-6.899324	
1.00000	-0.449411	-1.221242	-0.270044
-0.001018	-0.755319	-8.258400	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.543026	0.644735	0.373898
0.000187	0.958711	8.046081	
0.25000	0.543026	0.652064	0.373898
0.000187	0.496778	9.317087	
0.50000	0.543026	0.669536	0.373898
0.000187	0.041268	10.719777	
0.75000	0.543026	0.688564	0.373898
0.000187	0.338465	12.356596	
1.00000	0.543026	0.705257	0.373898
0.000187	0.705188	14.053152	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.394559	-1.711429	-0.296069
-0.001150	-0.756449	-6.911949	
0.25000	-0.394559	-1.694733	-0.296069
-0.001150	-0.389659	-7.166017	
0.50000	-0.394559	-1.675695	-0.296069
-0.001150	-0.026042	-8.280875	
0.75000	-0.394559	-1.658209	-0.296069
-0.001150	-0.429074	-8.996612	
1.00000	-0.394559	-1.650823	-0.296069
-0.001150	-0.890780	-9.737477	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.590367	6.211694	0.403062
0.000499	1.030533	14.409788	
0.25000	0.590367	11.909835	0.403062
0.000499	0.540070	33.253322	
0.50000	0.590367	25.493858	0.403062
0.000499	0.067132	44.839004	
0.75000	0.590367	40.288104	0.403062
0.000499	0.377548	36.783752	
1.00000	0.590367	53.267455	0.403062
0.000499	0.760591	21.166332	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.427311	-54.589892	-0.317482
-0.001019	-0.816378	-38.407014	
0.25000	-0.427311	-41.608514	-0.317482
-0.001019	-0.423404	-19.295789	
0.50000	-0.427311	-26.806401	-0.317482
-0.001019	-0.041227	-19.953114	
0.75000	-0.427311	-13.211133	-0.317482
-0.001019	-0.477466	-20.655848	
1.00000	-0.427311	-7.468381	-0.317482
-0.001019	-0.972505	-40.905457	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.108033	0.242102	0.138134
2.25E-06	0.355947	3.151897	
0.25000	0.108033	0.250245	0.138134
2.25E-06	0.185659	3.728239	
0.50000	0.108033	0.269658	0.138134
2.25E-06	0.016719	4.307329	
0.75000	0.108033	0.290800	0.138134
2.25E-06	0.110433	4.910765	
1.00000	0.108033	0.309348	0.138134
2.25E-06	0.231281	5.532711	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.176694	-0.737704	-0.097515
-0.000434	-0.249889	-2.677526	
0.25000	-0.176694	-0.719152	-0.097515
-0.000434	-0.128903	-2.891646	
0.50000	-0.176694	-0.697999	-0.097515
-0.000434	-0.009577	-3.149699	
0.75000	-0.176694	-0.678570	-0.097515
-0.000434	-0.156857	-3.407843	
1.00000	-0.176694	-0.670363	-0.097515
-0.000434	-0.327238	-3.693888	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.223956	8.726986	0.238548
0.000186	0.616916	14.152398	
0.25000	0.223956	17.399397	0.238548
0.000186	0.334148	41.766200	
0.50000	0.223956	38.073902	0.238548
0.000186	0.064385	58.185466	
0.75000	0.223956	60.590331	0.238548
0.000186	0.187604	44.259538	
1.00000	0.223956	80.344398	0.238548
0.000186	0.366155	18.774266	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.171462	-81.414023	-0.155953
-0.000562	-0.416881	-51.996017	
0.25000	-0.171462	-61.656727	-0.155953
-0.000562	-0.224230	-22.292772	
0.50000	-0.171462	-39.128324	-0.155953
-0.000562	-0.038447	-22.638393	
0.75000	-0.171462	-18.436705	-0.155953
-0.000562	-0.286141	-23.053809	
1.00000	-0.171462	-9.696396	-0.155953
-0.000562	-0.577587	-53.218746	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.450479	8.092011	0.358004
0.000168	0.918582	14.775149	
0.25000	0.450479	15.941153	0.358004
0.000168	0.487160	40.188167	
0.50000	0.450479	34.653036	0.358004
0.000168	0.069707	55.471831	
0.75000	0.450479	55.031991	0.358004
0.000168	0.315746	43.287883	
1.00000	0.450479	72.910943	0.358004
0.000168	0.631901	20.649301	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.340475	-74.067279	-0.266315
-0.000955	-0.695080	-47.862644	
0.25000	-0.340475	-56.185535	-0.266315
-0.000955	-0.365628	-22.754325	
0.50000	-0.340475	-35.795743	-0.266315
-0.000955	-0.043024	-23.288248	
0.75000	-0.340475	-17.068371	-0.266315
-0.000955	-0.425655	-23.838577	
1.00000	-0.340475	-9.157775	-0.266315
-0.000955	-0.864930	-51.362406	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.492704	5.229817	0.399676
0.000736	1.017809	14.136232	
0.25000	0.492704	9.962999	0.399676
0.000736	0.532323	30.080096	
0.50000	0.492704	21.246620	0.399676
0.000736	0.065709	40.059864	
0.75000	0.492704	33.535516	0.399676
0.000736	0.309056	33.794213	
1.00000	0.492704	44.316864	0.399676
0.000736	0.743759	21.274877	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.417522	-45.779270	-0.309360
-0.000791	-0.791134	-33.561660	
0.25000	-0.417522	-34.996239	-0.309360
-0.000791	-0.408748	-17.803183	
0.50000	-0.417522	-22.700808	-0.309360
-0.000791	-0.026025	-18.288181	
0.75000	-0.417522	-11.407847	-0.309360
-0.000791	-0.474656	-19.052000	
1.00000	-0.417522	-6.637608	-0.309360
-0.000791	-0.966672	-35.952326	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.175243	0.219113	0.177473
0.000968	0.441671	4.534330	
0.25000	0.175243	0.227256	0.177473
0.000968	0.222398	5.274367	
0.50000	0.175243	0.246569	0.177473
0.000968	0.020993	6.074592	
0.75000	0.175243	0.267811	0.177473
0.000968	0.186440	6.958295	
1.00000	0.175243	0.286360	0.177473
0.000968	0.372626	7.879129	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.250709	-0.997549	-0.150578
-6.87E-06	-0.371309	-3.356290	
0.25000	-0.250709	-0.978998	-0.150578
-6.87E-06	-0.185279	-3.524390	
0.50000	-0.250709	-0.957844	-0.150578
-6.87E-06	-0.010650	-3.753680	
0.75000	-0.250709	-0.938416	-0.150578
-6.87E-06	-0.215934	-3.977207	
1.00000	-0.250709	-0.930209	-0.150578
-6.87E-06	-0.435170	-4.231546	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.346449	12.206759	0.278073
0.001080	0.697912	18.046733	
0.25000	0.346449	24.519140	0.278073
0.001080	0.371084	56.947172	
0.50000	0.346449	53.871113	0.278073
0.001080	0.079195	79.914377	
0.75000	0.346449	85.838100	0.278073
0.001080	0.284327	59.766889	
1.00000	0.346449	113.883516	0.278073
0.001080	0.531521	23.173100	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.329830	-115.185947	-0.217420
-6.65E-05	-0.562598	-72.009567	
0.25000	-0.329830	-87.136152	-0.217420
-6.65E-05	-0.293766	-29.569625	
0.50000	-0.329830	-55.152165	-0.217420
-6.65E-05	-0.046245	-29.787336	
0.75000	-0.329830	-25.775895	-0.217420
-6.65E-05	-0.357221	-30.098105	
1.00000	-0.329830	-13.367118	-0.217420
-6.65E-05	-0.696324	-72.603908	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.344952	9.013988	0.351643
0.001088	0.892522	17.475379	
0.25000	0.344952	17.889062	0.351643
0.001088	0.470525	46.202165	
0.50000	0.344952	39.046943	0.351643
0.001088	0.079019	63.531670	
0.75000	0.344952	62.089813	0.351643
0.001088	0.323081	49.662295	
1.00000	0.344952	82.305894	0.351643
0.001088	0.629738	24.394077	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.326437	-83.913078	-0.260549
-0.000361	-0.670697	-55.235921	
0.25000	-0.326437	-63.693782	-0.260549
-0.000361	-0.348466	-24.916324	
0.50000	-0.326437	-40.638658	-0.260549
-0.000361	-0.045347	-25.371225	
0.75000	-0.326437	-19.463263	-0.260549
-0.000361	-0.429503	-25.897386	
1.00000	-0.326437	-10.518603	-0.260549
-0.000361	-0.860634	-56.868851	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.445420	7.649792	0.409734
0.000906	1.040678	16.400196	
0.25000	0.445420	15.015234	0.409734
0.000906	0.544928	40.588272	
0.50000	0.445420	32.574003	0.409734
0.000906	0.075999	55.333684	
0.75000	0.445420	51.697112	0.409734
0.000906	0.380013	44.396873	
1.00000	0.445420	68.474280	0.409734
0.000906	0.754492	23.682833	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.444999	-70.023844	-0.312997
-0.000676	-0.802739	-47.862644	
0.25000	-0.444999	-53.244056	-0.312997
-0.000676	-0.415456	-22.888503	
0.50000	-0.444999	-34.110779	-0.312997
-0.000676	-0.044688	-23.456641	
0.75000	-0.444999	-16.537474	-0.312997
-0.000676	-0.493624	-24.075713	
1.00000	-0.444999	-9.114366	-0.312997
-0.000676	-0.997016	-49.970120	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.326079	10.427335	0.235109
0.001239	0.594841	19.644820	
0.25000	0.326079	31.682800	0.235109
0.001239	0.312348	75.107426	
0.50000	0.326079	59.755435	0.235109
0.001239	0.073749	98.290319	
0.75000	0.326079	86.069933	0.235109
0.001239	0.380013	78.099672	
1.00000	0.326079	113.634545	0.235109
0.001239	0.447796	24.967143	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.314767	-115.246188	-0.183349
-0.001248	-0.469962	-78.980896	
0.25000	-0.314767	-87.587007	-0.183349
-0.001248	-0.243363	-30.583516	
0.50000	-0.314767	-61.285420	-0.183349
-0.001248	-0.040353	-29.963896	
0.75000	-0.314767	-33.205959	-0.183349
-0.001248	-0.294850	-30.267876	
1.00000	-0.314767	-11.844907	-0.183349
-0.001248	-0.585083	-78.104451	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.590367	12.206759	0.409734
0.001088	1.040678	18.046733	
0.25000	0.590367	24.519140	0.409734
0.001088	0.544928	56.947172	
0.50000	0.590367	53.871113	0.409734
0.001088	0.079195	79.914377	
0.75000	0.590367	85.838100	0.409734
0.001088	0.380013	59.766889	
1.00000	0.590367	113.883516	0.409734
0.001088	0.760591	24.394077	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.449411	-115.185947	-0.317482
-0.001150	-0.816378	-72.009567	
0.25000	-0.449411	-87.136152	-0.317482
-0.001150	-0.423404	-29.569625	
0.50000	-0.449411	-55.152165	-0.317482
-0.001150	-0.046245	-29.787336	
0.75000	-0.449411	-25.775895	-0.317482
-0.001150	-0.493624	-30.098105	
1.00000	-0.449411	-13.367118	-0.317482
-0.001150	-0.997016	-72.603908	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.590367	12.206759	0.409734
0.001239	1.040678	19.644820	
0.25000	0.590367	31.682800	0.409734
0.001239	0.544928	75.107426	
0.50000	0.590367	59.755435	0.409734
0.001239	0.079195	98.290319	
0.75000	0.590367	86.069933	0.409734
0.001239	0.380013	78.099672	
1.00000	0.590367	113.883516	0.409734
0.001239	0.760591	24.967143	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.449411	-115.246188	-0.317482
-0.001248	-0.816378	-78.980896	
0.25000	-0.449411	-87.587007	-0.317482
-0.001248	-0.423404	-30.583516	
0.50000	-0.449411	-61.285420	-0.317482
-0.001248	-0.049973	-29.963896	
0.75000	-0.449411	-33.205959	-0.317482
-0.001248	-0.493624	-30.267876	
1.00000	-0.449411	-13.367118	-0.317482
-0.001248	-0.997016	-78.104451	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.590367	12.206759	0.409734
0.001239	1.040678	19.644820	
0.25000	0.590367	31.682800	0.409734
0.001239	0.544928	75.107426	
0.50000	0.590367	59.755435	0.409734
0.001239	0.079195	98.290319	
0.75000	0.590367	86.069933	0.409734
0.001239	0.380013	78.099672	
1.00000	0.590367	113.883516	0.409734
0.001239	0.760591	24.967143	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.449411	-115.246188	-0.317482
-0.001248	-0.816378	-78.980896	
0.25000	-0.449411	-87.587007	-0.317482
-0.001248	-0.423404	-30.583516	
0.50000	-0.449411	-61.285420	-0.317482
-0.001248	-0.049973	-29.963896	
0.75000	-0.449411	-33.205959	-0.317482
-0.001248	-0.493624	-30.267876	
1.00000	-0.449411	-13.367118	-0.317482
-0.001248	-0.997016	-78.104451	

ELEM 464 ========== LENGTH = 4.942678

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.186903	0.145344	0.086115
4.10E-06	0.215137	3.328095	
0.25000	0.186903	0.169462	0.086115
4.10E-06	0.108797	3.519599	
0.50000	0.186903	0.201205	0.086115
4.10E-06	0.014621	3.689500	
0.75000	0.186903	0.230955	0.086115
4.10E-06	0.097650	3.822017	
1.00000	0.186903	0.262190	0.086115
4.10E-06	0.199835	3.933865	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.190699	-0.330857	-0.082694
-0.000383	-0.209110	-2.286679	
0.25000	-0.190699	-0.299617	-0.082694
-0.000383	-0.106928	-2.128475	
0.50000	-0.190699	-0.269874	-0.082694
-0.000383	-0.006778	-2.023894	
0.75000	-0.190699	-0.238129	-0.082694
-0.000383	-0.104204	-1.920608	
1.00000	-0.190699	-0.213981	-0.082694
-0.000383	-0.210628	-1.871071	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.260332	0.616521	0.139686
9.08E-05	0.351659	7.421265	
0.25000	0.260332	1.291842	0.139686
9.08E-05	0.179314	9.244848	
0.50000	0.260332	2.180630	0.139686
9.08E-05	0.030114	10.166745	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.260332	3.013640	0.139686
9.08E-05	0.158912	8.837855	
1.00000	0.260332	3.888224	0.139686
9.08E-05	0.324378	8.587965	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.309651	-4.119738	-0.134166
-0.000734	-0.339738	-6.362252	
0.25000	-0.309651	-3.244164	-0.134166
-0.000734	-0.174004	-4.644493	
0.50000	-0.309651	-2.411377	-0.134166
-0.000734	-0.013223	-4.427309	
0.75000	-0.309651	-1.522559	-0.134166
-0.000734	-0.169318	-4.243928	
1.00000	-0.309651	-0.846367	-0.134166
-0.000734	-0.341915	-5.565629	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294050	0.620382	0.167140
0.000326	0.430512	12.273184	
0.25000	0.294050	0.642088	0.167140
0.000326	0.224595	12.321707	
0.50000	0.294050	0.670656	0.167140
0.000326	0.045367	12.609105	
0.75000	0.294050	0.697432	0.167140
0.000326	0.163095	13.218974	
1.00000	0.294050	0.725543	0.167140
0.000326	0.334515	14.045514	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.277014	-1.152835	-0.138731
-0.000940	-0.351221	-5.664462	
0.25000	-0.277014	-1.124692	-0.138731
-0.000940	-0.179794	-5.323504	
0.50000	-0.277014	-1.097924	-0.138731
-0.000940	-0.016312	-5.030779	
0.75000	-0.277014	-1.069353	-0.138731
-0.000940	-0.190722	-4.739238	
1.00000	-0.277014	-1.047620	-0.138731
-0.000940	-0.396925	-4.496146	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.320620	6.924806	0.193623
0.000585	0.500010	22.011921	
0.25000	0.320620	19.713691	0.193623
0.000585	0.264562	54.959026	
0.50000	0.320620	36.545112	0.193623
0.000585	0.078600	68.276536	
0.75000	0.320620	52.320239	0.193623
0.000585	0.202399	56.071267	
1.00000	0.320620	68.882698	0.193623
0.000585	0.395113	24.092318	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.298137	-69.453467	-0.160324

```
-0.000947   -0.414613   -50.467663
0.25000     -0.298137   -52.872297     -0.160324
-0.000947   -0.216501   -21.347427
0.50000     -0.298137   -37.101394     -0.160324
-0.000947   -0.038990   -20.644304
0.75000     -0.298137   -20.268527     -0.160324
-0.000947   -0.238827   -20.579110
1.00000     -0.298137   -7.464008      -0.160324
-0.000947   -0.477323   -49.014981

COMB DB-G2-1 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.067236    0.237845    0.054684
0.000172    0.143780    5.133746
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               4755

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST        P           V2          V3
          T         M2          M3
0.25000     0.067236    0.261964    0.054684
0.000172    0.076534    5.136639
0.50000     0.067236    0.293706    0.054684
0.000172    0.018726    5.264070
0.75000     0.067236    0.323456    0.054684
0.000172    0.056517    5.516467
1.00000     0.067236    0.354691    0.054684
0.000172    0.115780    5.855730

COMB DB-G2-1 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.104722   -0.569437   -0.047948
-0.000397   -0.121275   -2.256160
0.25000     -0.104722   -0.538166   -0.047948
-0.000397   -0.062063   -2.084758
0.50000     -0.104722   -0.508424   -0.047948
-0.000397   -0.006217   -1.966947
0.75000     -0.104722   -0.476679   -0.047948
-0.000397   -0.059719   -1.850354
1.00000     -0.104722   -0.452531   -0.047948
-0.000397   -0.126936   -1.787533

COMB DB-G2-2 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.148608    8.910997    0.111820
0.000355    0.304527    20.673736
0.25000     0.148608    26.421097   0.111820
0.000355    0.171487    65.722193
0.50000     0.148608    49.466098   0.111820
0.000355    0.073012    83.739145
0.75000     0.148608    71.064858   0.111820
0.000355    0.098816    66.569561
1.00000     0.148608    93.741591   0.111820
0.000355    0.179538    22.163218

COMB DB-G2-2 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.117378   -94.240389  -0.071296
-0.000575   -0.108528   -64.767891
0.25000     -0.117378   -71.538024  -0.071296
-0.000575   -0.108372   -25.130047
0.50000     -0.117378   -49.945047  -0.071296
-0.000575   -0.040850   -24.399932
0.75000     -0.117378   -26.898067  -0.071296
-0.000575   -0.138755   -24.543145
1.00000     -0.117378   -9.366562   -0.071296
-0.000575   -0.275899   -63.708970

COMB DB-G2-3 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.263577    8.148275    0.166098
0.000314    0.437798    21.443615
0.25000     0.263577    23.972485   0.166098
0.000314    0.237196    62.277740
0.50000     0.263577    44.798690   0.166098
0.000314    0.077904    78.677403
0.75000     0.263577    64.317900   0.166098
0.000314    0.116247    63.227855
1.00000     0.263577    84.811295   0.166098
0.000314    0.313551    23.269729

COMB DB-G2-3 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.230479   -85.332976  -0.127095
-0.000822   -0.336041   -60.288503
0.25000     -0.230479   -64.816417  -0.127095
-0.000822   -0.178963   -24.382457
0.50000     -0.230479   -45.302434  -0.127095
-0.000822   -0.044297   -23.038066
0.75000     -0.230479   -24.474440  -0.127095
-0.000822   -0.203895   -23.682915
1.00000     -0.230479   -8.630885   -0.127095
-0.000822   -0.408234   -58.993303
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               4756

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.295016    5.830077    0.195789
0.000792    0.502567    21.885856
0.25000     0.295016    16.213131   0.195789
0.000792    0.263830    48.573326
0.50000     0.295016    29.878246   0.195789
0.000792    0.076707    59.437265
0.75000     0.295016    42.685775   0.195789
0.000792    0.207837    49.712643
1.00000     0.295016    56.132516   0.195789
0.000792    0.407421    24.052275

COMB DB-G2-4 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.269523   -56.761994  -0.165095
-0.000903   -0.422634   -42.244216
0.25000     -0.269523   -43.300054  -0.165095
-0.000903   -0.218590   -18.519508
0.50000     -0.269523   -30.495955  -0.165095
-0.000903   -0.034964   -17.866118
0.75000     -0.269523   -16.929667  -0.165095
-0.000903   -0.240634   -17.730590
1.00000     -0.269523   -6.433919   -0.165095
-0.000903   -0.481890   -40.734559

COMB DB-G3-1 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.124579    0.379576    0.104276
0.000793    0.254876    7.752302
0.25000     0.124579    0.403695    0.104276
0.000793    0.126079    7.758641
0.50000     0.124579    0.435437    0.104276
0.000793    0.025234    7.803498
0.75000     0.124579    0.465187    0.104276
0.000793    0.129681    8.239684
1.00000     0.124579    0.496423    0.104276
0.000793    0.258078    8.700729

COMB DB-G3-1 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.126247   -0.788145   -0.103906
-0.000274   -0.255526   -2.668703
0.25000     -0.126247   -0.756874   -0.103906
-0.000274   -0.127123   -2.442189
0.50000     -0.126247   -0.727132   -0.103906
-0.000274   -0.006619   -2.269267
0.75000     -0.126247   -0.695387   -0.103906
-0.000274   -0.131844   -2.097548
1.00000     -0.126247   -0.671239   -0.103906
-0.000274   -0.260661   -1.979579

COMB DB-G3-2 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.212999    10.853847   0.162843
0.000992    0.416156    24.633627
0.25000     0.212999    32.174684   0.162843
0.000992    0.220604    79.552032
0.50000     0.212999    60.234988   0.162843
0.000992    0.084705    101.471380
0.75000     0.212999    86.534305   0.162843
0.000992    0.190171    80.479899
1.00000     0.212999    114.146195  0.162843
0.000992    0.353117    26.268133

COMB DB-G3-2 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.192793   -114.704935 -0.139121
-0.000417   -0.363309   -78.125287
0.25000     -0.192793   -87.061134  -0.139121
-0.000417   -0.191387   -29.868825
0.50000     -0.192793   -60.768860  -0.139121
-0.000417   -0.046905   -28.987615
0.75000     -0.192793   -32.706146  -0.139121
-0.000417   -0.220775   -29.169780
1.00000     -0.192793   -11.359244  -0.139121
-0.000417   -0.421166   -76.867062
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               4757

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.237803    7.832649    0.186566
0.001105    0.482136    24.938218
0.25000     0.237803    22.462989   0.186566
0.001105    0.255982    62.527392
0.50000     0.237803    41.717944   0.186566
0.001105    0.085305    77.677264
0.75000     0.237803    59.764512   0.186566
0.001105    0.198359    63.681100
1.00000     0.237803    78.711766   0.186566
0.001105    0.379524    27.078138

COMB DB-G3-3 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.188343   -79.412754  -0.151565
-0.000704   -0.389422   -56.473575
0.25000     -0.188343   -60.444083  -0.151565
-0.000704   -0.202070   -23.192243
0.50000     -0.188343   -42.402348  -0.151565
-0.000704   -0.039990   -22.419766
0.75000     -0.188343   -23.145739  -0.151565
-0.000704   -0.233765   -22.376977
1.00000     -0.188343   -8.497514   -0.151565
-0.000704   -0.463356   -54.939016

COMB DB-G3-4 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.283025    6.590428    0.206030
0.000945    0.527932    23.409074
0.25000     0.283025    18.691933   0.206030
0.000945    0.276971    54.528252
0.50000     0.283025    34.618695   0.206030
0.000945    0.081680    67.146151
0.75000     0.283025    49.545937   0.206030
0.000945    0.122887    65.757909
1.00000     0.283025    65.218184   0.206030
0.000945    0.434263    25.631449

COMB DB-G3-4 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.260846   -65.899909  -0.175178
-0.000864   -0.447974   -48.250679
0.25000     -0.260846   -50.209947  -0.175178
-0.000864   -0.231495   -20.645084
0.50000     -0.260846   -35.286702  -0.175178
-0.000864   -0.037684   -19.629230
0.75000     -0.260846   -19.358572  -0.175178
-0.000864   -0.255911   -19.816948
1.00000     -0.260846   -7.242274   -0.175178
-0.000864   -0.509729   -46.673805

COMB DL-G1-1 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.430158    0.219687    0.147151
3.83E-06    0.379068    4.402635
0.25000     0.430158    0.227868    0.147151
3.83E-06    0.197271    4.585364
0.50000     0.430158    0.247281    0.147151
3.83E-06    0.019911    4.761571
0.75000     0.430158    0.268414    0.147151
3.83E-06    0.161103    4.912888
1.00000     0.430158    0.286957    0.147151
3.83E-06    0.335446    5.057436

COMB DL-G1-1 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.243667   -0.374837   -0.140916
-0.000335   -0.360207   -3.883337
0.25000     -0.243667   -0.356294   -0.140916
-0.000335   -0.185822   -3.922757
0.50000     -0.243667   -0.335155   -0.140916
-0.000335   -0.011549   -3.989940
0.75000     -0.243667   -0.315739   -0.140916
-0.000335   -0.166614   -4.057306
1.00000     -0.243667   -0.307536   -0.140916
-0.000335   -0.348335   -4.152603
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               4758

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.536619    0.701055    0.246201
8.72E-05    0.637987    8.970118
0.25000     0.536619    0.938306    0.246201
8.72E-05    0.334203    9.943025
0.50000     0.536619    1.501293    0.246201
8.72E-05    0.038390    10.617369
0.75000     0.536619    2.114146    0.246201
8.72E-05    0.250104    10.534652
1.00000     0.536619    2.651897    0.246201
8.72E-05    0.522680    10.191758

COMB DL-G1-2 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.437150   -2.865579   -0.220560
-0.000622   -0.566493   -8.191056
0.25000     -0.437150   -2.327839   -0.220560
-0.000622   -0.293520   -7.488764
0.50000     -0.437150   -1.714795   -0.220560
-0.000622   -0.021447   -7.593914
0.75000     -0.437150   -1.151736   -0.220560
-0.000622   -0.276679   -7.704650
1.00000     -0.437150   -0.913858   -0.220560
-0.000622   -0.580494   -8.625428

COMB DL-G1-3 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.547328    0.882495    0.275060
0.000296    0.724548    13.968222
0.25000     0.547328    0.889858    0.275060
0.000296    0.385417    14.187872
0.50000     0.547328    0.907330    0.275060
0.000296    0.057146    14.532025
0.75000     0.547328    0.926349    0.275060
0.000296    0.261129    15.116154
1.00000     0.547328    0.943038    0.275060
0.000296    0.545367    15.816601

COMB DL-G1-3 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.383224   -1.320886   -0.231063
-0.000795   -0.598229   -9.664668
0.25000     -0.383224   -1.304177   -0.231063
-0.000795   -0.312658   -9.766585
0.50000     -0.383224   -1.285152   -0.231063
-0.000795   -0.028539   -9.893426
0.75000     -0.383224   -1.267678   -0.231063
-0.000795   -0.301203   -10.020227
1.00000     -0.383224   -1.260295   -0.231063
-0.000795   -0.639023   -10.172332

COMB DL-G1-4 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.592225    6.596256    0.312137
0.000503    0.814701    21.096834
0.25000     0.592225    12.320956   0.312137
0.000503    0.437022    38.865065
0.50000     0.592225    25.905428   0.312137
0.000503    0.084986    49.187585
0.75000     0.592225    40.693165   0.312137
0.000503    0.318704    39.931046
1.00000     0.592225    53.668724   0.312137
0.000503    0.636205    23.173873

COMB DL-G1-4 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.417419   -54.173385  -0.265264
-0.000787   -0.688079   -40.851146
0.25000     -0.417419   -41.198095  -0.265264
-0.000787   -0.360436   -21.351620
0.50000     -0.417419   -26.405764  -0.265264
-0.000787   -0.042915   -21.337207
0.75000     -0.417419   -12.819546  -0.265264
-0.000787   -0.361090   -21.458190
1.00000     -0.417419   -7.079700   -0.265264
-0.000787   -0.743126   -41.125435
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               4759

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.094050    0.357706    0.097570
0.000162    0.259494    5.500904
0.25000     0.094050    0.365888    0.097570
0.000162    0.139316    5.665246
0.50000     0.094050    0.385301    0.097570
0.000162    0.022509    5.821468
0.75000     0.094050    0.406434    0.097570
0.000162    0.082055    6.000716
1.00000     0.094050    0.424977    0.097570
0.000162    0.173179    6.208109

COMB DL-G2-1 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.178011   -0.586102   -0.074365
-0.000322   -0.193924   -3.670745
0.25000     -0.178011   -0.567559   -0.074365
-0.000322   -0.101931   -3.685936
0.50000     -0.178011   -0.546420   -0.074365
-0.000322   -0.010658   -3.729856
0.75000     -0.178011   -0.527004   -0.074365
-0.000322   -0.104430   -3.772169
1.00000     -0.178011   -0.518801   -0.074365
-0.000322   -0.223630   -3.843268

COMB DL-G2-2 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.213607    9.101648    0.166567
0.000312    0.448201    18.731200
0.25000     0.213607    17.814480   0.166567
0.000312    0.254444    45.695919
0.50000     0.213607    38.489669   0.166567
0.000312    0.076395    61.197490
0.75000     0.213607    60.996192   0.166567
0.000312    0.151585    46.424099
1.00000     0.213607    80.744631   0.166567
0.000312    0.285298    20.143611

COMB DL-G2-2 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.171385   -81.157420  -0.120401
-0.000464   -0.329671   -53.189814
0.25000     -0.171385   -61.409381  -0.120401
-0.000464   -0.181052   -23.406758
0.50000     -0.171385   -38.895875  -0.120401
-0.000464   -0.038978   -23.279494
0.75000     -0.171385   -18.218029  -0.120401
-0.000464   -0.195249   -23.358527
1.00000     -0.171385   -9.482144   -0.120401
-0.000464   -0.396689   -53.186720

COMB DL-G2-3 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.443461    8.394466    0.264235
0.000273    0.698619    20.576713
0.25000     0.443461    16.280193   0.264235
0.000273    0.383042    45.118617
0.50000     0.443461    34.992694   0.264235
0.000273    0.085184    59.280774
0.75000     0.443461    55.362683   0.264235
0.000273    0.254068    46.028819
1.00000     0.443461    73.236411   0.264235
0.000273    0.502271    22.375691

COMB DL-G2-3 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.331507   -73.689608  -0.211870
-0.000674   -0.562122   -51.305567
0.25000     -0.331507   -55.816250  -0.211870
-0.000674   -0.300141   -24.352000
0.50000     -0.331507   -35.439933  -0.211870
-0.000674   -0.044523   -24.238989
0.75000     -0.331507   -16.725026  -0.211870
-0.000674   -0.304436   -24.325494
1.00000     -0.331507   -8.818435   -0.211870
-0.000674   -0.626905   -51.373639
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               4760

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.480696    5.705803    0.315701
0.000666    0.821209    21.218345
0.25000     0.480696    10.461046   0.315701
0.000666    0.438207    36.000083
0.50000     0.480696    21.745040   0.315701
0.000666    0.083988    44.647607
0.75000     0.480696    34.028530   0.315701
0.000666    0.319914    37.103396
1.00000     0.480696    44.806728   0.315701
0.000666    0.637533    23.383038

COMB DL-G2-4 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.411516   -45.353938  -0.264508
-0.000746   -0.681253   -35.915764
0.25000     -0.411516   -34.575964  -0.264508
-0.000746   -0.354353   -19.678960
0.50000     -0.411516   -22.288658  -0.264508
-0.000746   -0.040893   -19.627394
0.75000     -0.411516   -11.003214  -0.264508
-0.000746   -0.365894   -19.698889
1.00000     -0.411516   -6.235389   -0.264508
-0.000746   -0.752492   -36.037046

COMB DL-G3-1 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.164997    0.486781    0.166558
0.000679    0.417578    7.889632
0.25000     0.164997    0.494962    0.166558
0.000679    0.212237    8.029519
0.50000     0.164997    0.514376    0.166558
0.000679    0.029122    8.220950
0.75000     0.164997    0.535509    0.166558
0.000679    0.190601    8.517701
1.00000     0.164997    0.554052    0.166558
0.000679    0.377430    8.864406

COMB DL-G3-1 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.259849   -0.816828   -0.151577
-0.000239   -0.372983   -4.252708
0.25000     -0.259849   -0.798286   -0.151577
-0.000239   -0.186174   -4.222797
0.50000     -0.259849   -0.777146   -0.151577
-0.000239   -0.011332   -4.220662
0.75000     -0.259849   -0.757730   -0.151577
-0.000239   -0.201850   -4.218682
1.00000     -0.259849   -0.749528   -0.151577
-0.000239   -0.406731   -4.245854

COMB DL-G3-2 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.337381    12.689962   0.251372
0.000819    0.638668    23.179550
0.25000     0.337381    25.059729   0.251372
0.000819    0.344317    61.403848
0.50000     0.337381    54.412673   0.251372
0.000819    0.092216    83.314516
0.75000     0.337381    86.365596   0.251372
0.000819    0.294649    62.214552
1.00000     0.337381    114.402817  0.251372
0.000819    0.544978    24.715923

COMB DL-G3-2 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.336210   -114.911377 -0.218731
-0.000330   -0.562285   -72.626092
0.25000     -0.336210   -86.874938  -0.218731
-0.000330   -0.292923   -30.293643
0.50000     -0.336210   -54.912088  -0.218731
-0.000330   -0.045779   -30.019693
0.75000     -0.336210   -25.555371  -0.218731
-0.000330   -0.327374   -29.835324
1.00000     -0.336210   -13.152875  -0.218731
-0.000330   -0.629652   -72.303633
Program  SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD          >
                               4761

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.330204    9.620552    0.287228
0.000922    0.744696    24.375565
0.25000     0.330204    18.537093   0.287228
0.000922    0.402421    52.037730
0.50000     0.330204    31.453741   0.287228
0.000922    0.096312    68.031560
0.75000     0.330204    62.728406   0.287228
0.000922    0.304065    53.107615
1.00000     0.330204    82.938569   0.287228
0.000922    0.581189    26.451678

COMB DL-G3-3 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.333634   -83.546293  -0.237319
-0.000554   -0.612594   -56.871350
0.25000     -0.333634   -63.338549  -0.237319
-0.000554   -0.319873   -26.370491
0.50000     -0.333634   -40.296661  -0.237319
-0.000554   -0.045972   -26.218645
0.75000     -0.333634   -19.135361  -0.237319
-0.000554   -0.347357   -26.277931
1.00000     -0.333634   -10.195228  -0.237319
-0.000554   -0.697019   -56.781818

COMB DL-G3-4 ---------- MAX

REL DIST        P           V2          V3
          T         M2          M3
0.00000     0.426631    8.159323    0.330595
0.000790    0.856881    23.639718
0.25000     0.426631    15.559094   0.330595
0.000790    0.458947    46.682696
0.50000     0.426631    33.118445   0.330595
0.000790    0.094493    60.046869
0.75000     0.426631    52.233140   0.330595
0.000790    0.340928    47.789223
1.00000     0.426631    69.005406   0.330595
0.000790    0.668225    25.826506

COMB DL-G3-4 ---------- MIN

REL DIST        P           V2          V3
          T         M2          M3
0.00000     -0.446505   -69.597310  -0.275560
-0.000691   -0.710447   -49.948518
0.25000     -0.446505   -52.825392  -0.275560
-0.000691   -0.370244   -24.644891
0.50000     -0.446505   -33.704758  -0.275560
-0.000691   -0.046076   -24.490205
0.75000     -0.446505   -16.143151  -0.275560
```

-0.000691 -0.391529 -24.549862
1.00000 -0.446505 -8.723801 -0.275560
-0.000691 -0.795582 -49.894163

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.320620	10.853847	0.206030
0.001105	0.527932	24.938218	
0.25000	0.320620	32.174684	0.206030
0.001105	0.276971	79.552032	
0.50000	0.320620	60.234988	0.206030
0.001105	0.085305	101.471380	
0.75000	0.320620	86.534305	0.206030
0.001105	0.222887	80.479899	
1.00000	0.320620	114.146195	0.206030
0.001105	0.434263	27.078138	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.309651	-114.704235	-0.175178
-0.000947	-0.447974	-78.125287	
0.25000	-0.309651	-87.061134	-0.175178
-0.000947	-0.231495	-29.868825	
0.50000	-0.309651	-60.768860	-0.175178
-0.000947	-0.046905	-28.987615	
0.75000	-0.309651	-32.706146	-0.175178
-0.000947	-0.255911	-29.169780	
1.00000	-0.309651	-11.359244	-0.175178
-0.000947	-0.795729	-76.867062	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.592225	12.689962	0.330595
0.000922	0.856881	24.375565	
0.25000	0.592225	25.059729	0.330595
0.000922	0.458947	61.403848	
0.50000	0.592225	54.412673	0.330595
0.000922	0.096312	83.314516	
0.75000	0.592225	86.365596	0.330595
0.000922	0.340978	62.214552	
1.00000	0.592225	114.402817	0.330595
0.000922	0.668225	26.451678	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.446505	-114.911577	-0.275560
-0.000795	-0.710447	-72.626092	
0.25000	-0.446505	-86.874938	-0.275560
-0.000795	-0.370244	-30.293643	
0.50000	-0.446505	-54.912088	-0.275560
-0.000795	-0.046076	-30.019693	
0.75000	-0.446505	-25.555371	-0.275560
-0.000795	-0.391529	-30.035324	
1.00000	-0.446505	-13.152875	-0.275560
-0.000795	-0.795582	-72.303633	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.592225	12.689962	0.330595
0.001105	0.856881	24.938218	
0.25000	0.592225	32.174684	0.330595
0.001105	0.458947	79.552032	
0.50000	0.592225	60.234988	0.330595
0.001105	0.096312	101.471380	
0.75000	0.592225	86.534305	0.330595
0.001105	0.340978	80.479899	
1.00000	0.592225	114.402817	0.330595
0.001105	0.668225	27.078138	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.446505	-114.911577	-0.275560
-0.000947	-0.710447	-78.125287	
0.25000	-0.446505	-87.061134	-0.275560
-0.000947	-0.370244	-30.293643	
0.50000	-0.446505	-60.768860	-0.275560
-0.000947	-0.046905	-30.019693	
0.75000	-0.446505	-32.706146	-0.275560
-0.000947	-0.391529	-30.035324	
1.00000	-0.446505	-13.152875	-0.275560
-0.000947	-0.795582	-76.867062	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.592225	12.689962	0.330595
0.001105	0.856881	24.938218	
0.25000	0.592225	32.174684	0.330595
0.001105	0.458947	79.552032	
0.50000	0.592225	60.234988	0.330595
0.001105	0.096312	101.471380	
0.75000	0.592225	86.534305	0.330595
0.001105	0.340978	80.479899	
1.00000	0.592225	114.402817	0.330595
0.001105	0.668225	27.078138	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.446505	-114.911577	-0.275560
-0.000947	-0.710447	-78.125287	
0.25000	-0.446505	-87.061134	-0.275560
-0.000947	-0.370244	-30.293643	
0.50000	-0.446505	-60.768860	-0.275560
-0.000947	-0.046905	-30.019693	
0.75000	-0.446505	-32.706146	-0.275560
-0.000947	-0.391529	-30.035324	
1.00000	-0.446505	-13.152875	-0.275560
-0.000947	-0.795582	-76.867062	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 465 ========== LENGTH = 4.943780

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.179553	0.137740	0.081431
7.22E-06	0.202943	3.945789	
0.25000	0.179553	0.161871	0.081431
7.22E-06	0.102291	3.992779	
0.50000	0.179553	0.193616	0.081431
7.22E-06	0.015718	4.019492	
0.75000	0.179553	0.223366	0.081431
7.22E-06	0.087617	4.009400	
1.00000	0.179553	0.254634	0.081431
7.22E-06	0.178303	3.978106	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.182979	-0.241099	-0.073368
-7.26E-06	-0.184586	-1.860325	
0.25000	-0.182979	-0.209830	-0.073368
-7.26E-06	-0.093900	-1.685035	
0.50000	-0.182979	-0.180081	-0.073368
-7.26E-06	-0.005406	-1.773936	
0.75000	-0.182979	-0.148335	-0.073368
-7.26E-06	-0.099011	-1.922765	
1.00000	-0.182979	-0.124203	-0.073368
-7.26E-06	-0.199668	-2.125169	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.249288	0.672248	0.131209
0.000190	0.327662	8.600352	
0.25000	0.249288	1.347919	0.131209
0.000190	0.165652	10.152430	
0.50000	0.249288	2.236784	0.131209
0.000190	0.032047	10.773508	
0.75000	0.249288	3.069789	0.131209
0.000190	0.143249	10.180988	
1.00000	0.249288	3.945281	0.131209
0.000190	0.290819	8.659732	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.301701	-3.945054	-0.119502
-0.000333	-0.301041	-5.551169	
0.25000	-0.301701	-3.069513	-0.119502
-0.000333	-0.153350	-3.811216	
0.50000	-0.301701	-2.236533	-0.119502
-0.000333	-0.010944	-3.946035	
0.75000	-0.301701	-1.347663	-0.119502
-0.000333	-0.159851	-4.232831	
1.00000	-0.301701	-0.671954	-0.119502
-0.000333	-0.322047	-6.019714	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.283275	0.767639	0.134018
0.000567	0.334737	14.034924	
0.25000	0.283275	0.789357	0.134018
0.000567	0.175095	13.677774	
0.50000	0.283275	0.817927	0.134018
0.000567	0.048017	13.520441	
0.75000	0.283275	0.844703	0.134018
0.000567	0.161349	13.716905	
1.00000	0.283275	0.872843	0.134018
0.000567	0.310941	14.116053	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267887	-0.881604	-0.121851
-0.000570	-0.306940	-4.484474	
0.25000	-0.267887	-0.853462	-0.121851
-0.000570	-0.156341	-4.121860	
0.50000	-0.267887	-0.826688	-0.121851
-0.000570	-0.013544	-4.311993	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.267887	-0.798117	-0.121851
-0.000570	-0.162222	-4.687023	
1.00000	-0.267887	-0.776398	-0.121851
-0.000570	-0.327841	-5.110270	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.310019	7.135106	0.162338
0.000706	0.411489	24.060270	
0.25000	0.310019	19.930633	0.162338
0.000706	0.218906	56.573105	
0.50000	0.310019	36.763506	0.162338
0.000706	0.081466	69.317271	
0.75000	0.310019	52.538543	0.162338
0.000706	0.210241	56.619273	
1.00000	0.310019	69.118160	0.162338
0.000706	0.395177	24.147230	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.288005	-69.132663	-0.153218
-0.000708	-0.394337	-47.629762	
0.25000	-0.288005	-52.552111	-0.153218
-0.000708	-0.205102	-19.948361	
0.50000	-0.288005	-36.777538	-0.153218
-0.000708	-0.036045	-19.772212	
0.75000	-0.288005	-19.944564	-0.153218
-0.000708	-0.210322	-20.503568	
1.00000	-0.288005	-7.148393	-0.153218
-0.000708	-0.410781	-49.642799	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.063657	0.334866	0.045617
0.000302	0.114058	5.849150	
0.25000	0.063657	0.358997	0.045617
0.000302	0.057663	5.691267	
0.50000	0.063657	0.390743	0.045617
0.000302	0.019697	5.617292	
0.75000	0.063657	0.420493	0.045617
0.000302	0.050664	5.706466	
1.00000	0.063657	0.451760	0.045617
0.000302	0.103177	5.881189	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.105649	-0.461459	-0.042477
-0.000303	-0.106924	-1.784807	
0.25000	-0.105649	-0.430190	-0.042477
-0.000303	-0.054393	-1.607944	
0.50000	-0.105649	-0.400440	-0.042477
-0.000303	-0.008295	-1.487327	
0.75000	-0.105649	-0.368695	-0.042477
-0.000303	-0.055095	-1.823105	
1.00000	-0.105649	-0.344563	-0.042477
-0.000303	-0.111512	-2.022457	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.145803	9.122754	0.071721
0.000482	0.190688	22.118380	
0.25000	0.145803	26.641947	0.071721
0.000482	0.112792	66.893167	
0.50000	0.145803	49.688936	0.071721
0.000482	0.074851	84.451162	
0.75000	0.145803	71.287572	0.071721
0.000482	0.119530	66.926131	
1.00000	0.145803	93.987812	0.071721
0.000482	0.201677	22.173675	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.115231	-94.006796	-0.071481
-0.000484	-0.194806	-63.734255	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.115231	-71.305277	-0.071481
-0.000484	-0.106666	-24.162169	
0.50000	-0.115231	-49.707276	-0.071481
-0.000484	-0.039037	-23.782695	
0.75000	-0.115231	-26.660150	-0.071481
-0.000484	-0.102434	-24.493639	
1.00000	-0.115231	-9.139991	-0.071481
-0.000484	-0.190804	-64.099664	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.255777	8.329627	0.126262
0.000546	0.325575	23.239548	
0.25000	0.255777	24.162055	0.126262
0.000546	0.178870	63.716179	
0.50000	0.255777	44.990056	0.126262
0.000546	0.080366	79.587990	
0.75000	0.255777	64.509155	0.126262
0.000546	0.173989	63.757578	
1.00000	0.255777	85.023792	0.126262
0.000546	0.316477	23.309550	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.222972	-85.048179	-0.120163
-0.000549	-0.315844	-59.008408	
0.25000	-0.222972	-64.532385	-0.120163
-0.000549	-0.167513	-23.149531	
0.50000	-0.222972	-45.013861	-0.120163
-0.000549	-0.039613	-22.876375	
0.75000	-0.222972	-24.185755	-0.120163
-0.000549	-0.216783	-23.636836	
1.00000	-0.222972	-8.352434	-0.120163
-0.000549	-0.323015	-59.547522	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.284961	6.077514	0.168388
0.000847	0.423817	24.018529	
0.25000	0.284961	16.465961	0.168388
0.000847	0.223119	50.247434	
0.50000	0.284961	30.132254	0.168388
0.000847	0.079545	60.594823	
0.75000	0.284961	42.939710	0.168388
0.000847	0.217468	50.293458	
1.00000	0.284961	56.400389	0.168388
0.000847	0.411161	24.104176	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.260237	-56.428165	-0.159947
-0.000849	-0.407845	-40.753354	
0.25000	-0.260237	-42.966726	-0.159947
-0.000849	-0.210265	-17.067247	
0.50000	-0.260237	-30.159648	-0.159947
-0.000849	-0.032137	-16.946322	
0.75000	-0.260237	-16.493273	-0.159947
-0.000849	-0.216697	-17.624733	
1.00000	-0.260237	-6.104253	-0.159947
-0.000849	-0.424681	-41.366963	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.119557	0.522340	0.110023
0.000554	0.269485	8.701086	
0.25000	0.119557	0.546471	0.110023
0.000554	0.133705	8.478160	
0.50000	0.119557	0.578216	0.110023
0.000554	0.026446	8.379682	
0.75000	0.119557	0.607966	0.110023
0.000554	0.133092	8.496601	
1.00000	0.119557	0.639234	0.110023
0.000554	0.264928	8.737864	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.120977	-0.650109	-0.106677
-0.000590	-0.262512	-1.996638	
0.25000	-0.120977	-0.618840	-0.106677
-0.000590	-0.130661	-1.787349	
0.50000	-0.120977	-0.589091	-0.106677
-0.000590	-0.005778	-1.625141	
0.75000	-0.120977	-0.557345	-0.106677
-0.000590	-0.138550	-1.998284	
1.00000	-0.120977	-0.533213	-0.106677
-0.000590	-0.274542	-2.225002	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.208394	11.097774	0.152360
0.000739	0.387497	26.232105	
0.25000	0.208394	32.429684	0.152360
0.000739	0.206887	80.842701	
0.50000	0.208394	60.492409	0.152360
0.000739	0.086569	102.263399	
0.75000	0.208394	86.791575	0.152360
0.000739	0.214130	80.876917	
1.00000	0.208394	114.432087	0.152360
0.000739	0.398300	26.288530	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185149	-114.451515	-0.153565
-0.000752	-0.394596	-76.918531	
0.25000	-0.185149	-86.809444	-0.153565
-0.000752	-0.205195	-28.767137	
0.50000	-0.185149	-60.511053	-0.153565
-0.000752	-0.045246	-28.237752	
0.75000	-0.185149	-32.448161	-0.153565
-0.000752	-0.211273	-29.053870	
1.00000	-0.185149	-11.115075	-0.153565
-0.000752	-0.399258	-77.229839	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.230917	8.147759	0.158740
0.000943	0.400750	27.035447	
0.25000	0.230917	22.785697	0.158740
0.000943	0.213572	64.180923	
0.50000	0.230917	42.042313	0.158740
0.000943	0.087879	78.734166	
0.75000	0.230917	60.088777	0.158740
0.000943	0.220883	64.224457	
1.00000	0.230917	79.055671	0.158740
0.000943	0.407361	27.115194	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.180724	-79.081702	-0.155757
-0.000958	-0.398712	-54.978804	
0.25000	-0.180724	-60.113738	-0.155757
-0.000958	-0.206340	-21.771947	
0.50000	-0.180724	-42.067805	-0.155757
-0.000958	-0.037752	-21.482257	
0.75000	-0.180724	-22.811074	-0.155757
-0.000958	-0.210628	-22.233560	
1.00000	-0.180724	-8.172330	-0.155757
-0.000958	-0.406590	-55.483149	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.273604	6.878693	0.179868
0.000921	0.452606	25.599960	
0.25000	0.273604	18.986482	0.179868
0.000921	0.238111	56.248925	
0.50000	0.273604	34.914618	0.179868
0.000921	0.084529	68.253227	
0.75000	0.273604	49.841775	0.179868
0.000921	0.235949	56.295837	
1.00000	0.273604	65.530267	0.179868
0.000921	0.445452	25.686582	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.372031	-1.022815	-0.193589
-0.000492	-0.485143	-10.126576	
0.25000	-0.372031	-1.006124	-0.193589
-0.000492	-0.247111	-10.169075	
0.50000	-0.372031	-0.987097	-0.193589
-0.000492	-0.026442	-10.236620	
0.75000	-0.372031	-0.969625	-0.193589
-0.000492	-0.223226	-10.304263	
1.00000	-0.372031	-0.962255	-0.193589
-0.000492	-0.459859	-10.396804	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.583739	6.828330	0.236566
0.000504	0.606947	23.130591	
0.25000	0.583739	12.558116	0.236566
0.000504	0.324827	40.349967	
0.50000	0.583739	26.146782	0.236566
0.000504	0.087783	50.056170	
0.75000	0.583739	40.935469	0.236566
0.000504	0.314568	40.202822	
1.00000	0.583739	53.913288	0.236566
0.000504	0.603556	22.821603	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.405342	-53.822273	-0.241178
-0.000599	-0.608557	-41.112189	
0.25000	-0.405342	-40.844463	-0.241178
-0.000599	-0.312503	-21.630029	
0.50000	-0.405342	-26.051414	-0.241178
-0.000599	-0.040742	-21.560459	
0.75000	-0.405342	-12.466906	-0.241178

```
-0.000599   -0.290122   -21.757029
1.00000     -0.405342    -6.736442     -0.241178
-0.000599   -0.580614   -41.376292

COMB DL-G2-1 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.086468     0.435479     0.067624
0.000248    0.175271     6.187571
0.25000     0.086468     0.443667     0.067624
0.000248    0.092633     6.153358
0.50000     0.086468     0.463086     0.067624
0.000248    0.023496     6.110810
0.75000     0.086468     0.484221     0.067624
0.000248    0.074019     6.103846
1.00000     0.086468     0.502767     0.067624
0.000248    0.148057     6.089746

COMB DL-G2-1 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.176421    -0.469915     -0.060393
-0.000250   -0.151636    -3.829057
0.25000    -0.176421    -0.451368     -0.060393
-0.000250   -0.077461    -3.825312
0.50000    -0.176421    -0.430228     -0.060393
-0.000250   -0.010180    -3.849549
0.75000    -0.176421    -0.410815     -0.060393
-0.000250   -0.076034    -3.874028
1.00000    -0.176421    -0.402625     -0.060393
-0.000250   -0.160652    -3.926283

COMB DL-G2-2 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.205020     9.300245     0.113396
0.000399    0.295665    20.101081
0.25000     0.205020    18.020820     0.113396
0.000399    0.170191    46.716032
0.50000     0.205020    38.702391     0.113396
0.000399    0.078267    61.790384
0.75000     0.205020    61.210360     0.113396
0.000399    0.162687    46.615519
1.00000     0.205020    80.962238     0.113396
0.000399    0.287394    19.880984
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          4769

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.167125   -80.910416     -0.111761
-0.000401   -0.290969   -53.195701
0.25000    -0.167125   -61.158551     -0.111761
-0.000401   -0.154984   -23.484546
0.50000    -0.167125   -38.643942     -0.111761
-0.000401   -0.037652   -23.319179
0.75000    -0.167125   -17.968700     -0.111761
-0.000401   -0.149034   -23.559206
1.00000    -0.167125    -9.247093     -0.111761
-0.000401   -0.287590   -53.359898

COMB DL-G2-3 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.432551     8.598179     0.186829
0.000467    0.483761    22.327704
0.25000     0.432551    16.490914     0.186829
0.000467    0.266708    46.407875
0.50000     0.432551    35.209192     0.186829
0.000467    0.087772    60.041050
0.75000     0.432551    55.580489     0.186829
0.000467    0.248012    46.278636
1.00000     0.432551    73.457330     0.186829
0.000467    0.464983    22.052482

COMB DL-G2-3 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.320043   -73.382013     -0.185706
-0.000469   -0.476839   -51.359999
0.25000    -0.320043   -55.505184     -0.185706
-0.000469   -0.249380   -24.492835
0.50000    -0.320043   -35.127878     -0.185706
-0.000469   -0.042656   -24.366719
0.75000    -0.320043   -16.415327     -0.185706
-0.000469   -0.282861   -24.607527
1.00000    -0.320043    -8.521659     -0.185706
-0.000469   -0.461803   -51.602790

COMB DL-G2-4 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.466175     5.963333     0.247313
0.000708    0.630496    23.348894
0.25000     0.466175    10.722802     0.247313
0.000708    0.334570    37.549964
0.50000     0.466175    22.010278     0.247313
0.000708    0.086825    45.562817
0.75000     0.466175    34.294558     0.247313
0.000708    0.323724    37.395821
1.00000     0.466175    45.074632     0.247313
0.000708    0.620915    23.029090

COMB DL-G2-4 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.399928   -44.985214     -0.247583
-0.000709   -0.620079   -36.036067
0.25000    -0.399928   -34.205147     -0.247583
-0.000709   -0.315634   -19.860431
0.50000    -0.399928   -21.917245     -0.247583
-0.000709   -0.038863   -19.810205
0.75000    -0.399928   -10.633221     -0.247583
-0.000709   -0.303304   -19.980944
1.00000    -0.399928    -5.873190     -0.247583
-0.000709   -0.607121   -36.285114

COMB DL-G3-1 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.157170     0.621113     0.159081
0.000452    0.395959     8.891099
0.25000     0.157170     0.629302     0.159081
0.000452    0.220265     8.748619
0.50000     0.157170     0.648721     0.159081
0.000452    0.030128     8.658677
0.75000     0.157170     0.669855     0.159081
0.000452    0.205616     8.675781
1.00000     0.157170     0.688402     0.159081
0.000452    0.402989     8.745464
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          4770

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.260236    -0.651867     -0.160084
-0.000477   -0.389378    -4.271980
0.25000    -0.260236    -0.633321     -0.160084
-0.000477   -0.192894    -4.259874
0.50000    -0.260236    -0.612180     -0.160084
-0.000477   -0.010792    -4.275332
0.75000    -0.260236    -0.592767     -0.160084
-0.000477   -0.195205    -4.291196
1.00000    -0.260236    -0.584578     -0.160084
-0.000477   -0.391787    -4.334642

COMB DL-G3-2 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.328079    12.933799     0.229396
0.000570    0.577166    24.731535
0.25000     0.328079    25.314559     0.229396
0.000570    0.311749    62.585619
0.50000     0.328079    54.676563     0.229396
0.000570    0.093963    84.017580
0.75000     0.328079    86.631539     0.229396
0.000570    0.328876    62.467494
1.00000     0.328079   114.673643     0.229396
0.000570    0.605574    24.467797

COMB DL-G3-2 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.334122  -114.628066     -0.237267
-0.000592   -0.597661   -72.367409
0.25000    -0.334122   -86.585981     -0.237267
-0.000592   -0.308033   -30.155020
0.50000    -0.334122   -54.621579     -0.237267
-0.000592   -0.044393   -29.889107
0.75000    -0.334122   -25.268559     -0.237267
-0.000592   -0.304811   -30.198855
1.00000    -0.334122   -12.886334     -0.237267
-0.000592   -0.587262   -72.476237

COMB DL-G3-3 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.316644     9.917539     0.240267
0.000750    0.608670    26.442638
0.25000     0.316644    18.842004     0.240267
0.000750    0.326267    53.561756
0.50000     0.316644    40.007116     0.240267
0.000750    0.098874    68.936432
0.75000     0.316644    63.041328     0.240267
0.000750    0.331920    53.410631
1.00000     0.316644    83.255010     0.240267
0.000750    0.617824    26.120769

COMB DL-G3-3 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.330024   -83.181587     -0.242989
-0.000772   -0.608625   -56.823872
0.25000    -0.330024   -62.967918     -0.242989
-0.000772   -0.311370   -26.422006
0.50000    -0.330024   -39.926912     -0.242989
-0.000772   -0.044229   -26.256756
0.75000    -0.330024   -18.768276     -0.242989
-0.000772   -0.307449   -26.506295
1.00000    -0.330024    -9.842756     -0.242989
-0.000772   -0.603059   -57.007921

COMB DL-G3-4 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.410392     8.443547     0.267518
0.000744    0.680031    25.808828
0.25000     0.410392    15.849894     0.267518
0.000744    0.362233    48.271843
0.50000     0.410392    33.414665     0.267518
0.000744    0.097321    60.993522
0.75000     0.410392    52.530588     0.267518
0.000744    0.353026    48.112418
1.00000     0.410392    69.305775     0.267518
0.000744    0.669618    25.474735
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          4771

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.439687   -69.220984     -0.266093
-0.000767   -0.667432   -49.913102
0.25000    -0.439687   -52.445708     -0.266093
-0.000767   -0.341539   -24.702246
0.50000    -0.439687   -33.324146     -0.266093
-0.000767   -0.044122   -24.584463
0.75000    -0.439687   -15.764750     -0.266093
-0.000767   -0.334474   -24.818857
1.00000    -0.439687    -8.357527     -0.266093
-0.000767   -0.663307   -50.158685

COMB     DB ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.310019    11.097774     0.179868
0.000943    0.452606    27.035447
0.25000     0.310019    32.429684     0.179868
0.000943    0.238111    80.842701
0.50000     0.310019    60.492409     0.179868
0.000943    0.087879   102.263399
0.75000     0.310019    86.791575     0.179868
0.000943    0.235949    80.876917
1.00000     0.310019   114.432087     0.179868
0.000943    0.445452    27.115194

COMB     DB ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.301701  -114.451515     -0.173117
-0.000958   -0.441143   -76.918531
0.25000    -0.301701   -86.809444     -0.173117
-0.000958   -0.227309   -28.767137
0.50000    -0.301701   -60.511053     -0.173117
-0.000958   -0.045246   -28.237752
0.75000    -0.301701   -32.448161     -0.173117
-0.000958   -0.233153   -29.053870
1.00000    -0.301701   -11.115075     -0.173117
-0.000958   -0.455287   -77.229839

COMB     DL ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.583739    12.933799     0.267518
0.000750    0.680031    26.442638
0.25000     0.583739    25.314559     0.267518
0.000750    0.362233    62.585619
0.50000     0.583739    54.676563     0.267518
0.000750    0.098874    84.017580
0.75000     0.583739    86.631539     0.267518
0.000750    0.353026    62.467494
1.00000     0.583739   114.673643     0.267518
0.000750    0.669618    26.120769

COMB     DL ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.439687  -114.628066     -0.266093
-0.000772   -0.667432   -72.367409
0.25000    -0.439687   -86.585981     -0.266093
-0.000772   -0.341539   -30.155020
0.50000    -0.439687   -54.621579     -0.266093
-0.000772   -0.044393   -29.889107
0.75000    -0.439687   -25.268559     -0.266093
-0.000772   -0.334374   -30.198855
1.00000    -0.439687   -12.886334     -0.266093
-0.000772   -0.663307   -72.476237

COMB     CAR ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.583739    12.933799     0.267518
0.000943    0.680031    27.035447
0.25000     0.583739    32.429684     0.267518
0.000943    0.362233    80.842701
0.50000     0.583739    60.492409     0.267518
0.000943    0.098874   102.263399
0.75000     0.583739    86.791575     0.267518
0.000943    0.353026    80.876917
1.00000     0.583739   114.673643     0.267518
0.000943    0.669618    27.115194
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          4772

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.439687  -114.628066     -0.266093
-0.000958   -0.667432   -76.918531
0.25000    -0.439687   -86.809444     -0.266093
-0.000958   -0.341539   -30.155020
0.50000    -0.439687   -60.511053     -0.266093
-0.000958   -0.045246   -29.889107
0.75000    -0.439687   -32.448161     -0.266093
-0.000958   -0.334374   -30.198855
1.00000    -0.439687   -12.886334     -0.266093
-0.000958   -0.663307   -77.229839

COMB     DESIGN ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.583739    12.933799     0.267518
0.000943    0.680031    27.035447
0.25000     0.583739    32.429684     0.267518
0.000943    0.362233    80.842701
0.50000     0.583739    60.492409     0.267518
0.000943    0.098874   102.263399
0.75000     0.583739    86.791575     0.267518
0.000943    0.353026    80.876917
1.00000     0.583739   114.673643     0.267518
0.000943    0.669618    27.115194

COMB     DESIGN ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.439687  -114.628066     -0.266093
-0.000958   -0.667432   -76.918531
0.25000    -0.439687   -86.809444     -0.266093
-0.000958   -0.341539   -30.155020
0.50000    -0.439687   -60.511053     -0.266093
-0.000958   -0.045246   -29.889107
0.75000    -0.439687   -32.448161     -0.266093
-0.000958   -0.334374   -30.198855
1.00000    -0.439687   -12.886334     -0.266093
-0.000958   -0.663307   -77.229839

ELEM      466 ================== LENGTH
=     4.943055

COMB DB-G1-1 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.167876     0.203769     0.078093
0.000382    0.194161     3.964677
0.25000     0.167876     0.227917     0.078093
0.000382    0.097653     3.868622
0.50000     0.167876     0.259663     0.078093
0.000382    0.014745     3.751314
0.75000     0.167876     0.289405     0.078093
0.000382    0.081904     3.596397
1.00000     0.167876     0.320683     0.078093
0.000382    0.165478     3.418644

COMB DB-G1-1 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.172018    -0.240332     -0.067635
-4.12E-06   -0.168897    -2.119342
0.25000    -0.172018    -0.209090     -0.067635
-4.12E-06   -0.085446    -2.194848
0.50000    -0.172018    -0.179338     -0.067635
-4.12E-06   -0.007375    -2.324086
0.75000    -0.172018    -0.147596     -0.067635
-4.12E-06   -0.095549    -2.454547
1.00000    -0.172018    -0.123477     -0.067635
-4.12E-06   -0.191856    -2.638587

COMB DB-G1-2 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.232616     0.827277     0.125338
0.000728    0.311772     8.645230
0.25000     0.232616     1.503422     0.125338
0.000728    0.157128     9.922862
0.50000     0.232616     2.392295     0.125338
0.000728    0.003224    10.280028
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          4773

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
       T           M2           M3
0.75000     0.232616     3.225094     0.125338
0.000728    0.143288     9.386380
1.00000     0.232616     4.100856     0.125338
0.000728    0.279291     7.587116

COMB DB-G1-2 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.289036    -3.867701     -0.112013
-9.16E-05   -0.278007    -6.010786
0.25000    -0.289036    -2.992919     -0.112013
-9.16E-05   -0.140114    -4.734281
0.50000    -0.289036    -2.159884     -0.112013
-9.16E-05   -0.044386    -4.962297
0.75000    -0.289036    -1.271091     -0.112013
-9.16E-05   -0.153161    -5.224535
1.00000    -0.289036    -0.595769     -0.112013
-9.16E-05   -0.307782    -6.986997

COMB DB-G1-3 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.267440     1.021107     0.127112
0.000933    0.316584    14.126217
0.25000     0.267440     1.042840     0.127112
0.000933    0.159492    13.338858
0.50000     0.267440     1.071411     0.127112
0.000933    0.045634    12.768236
0.75000     0.267440     1.098180     0.127112
0.000933    0.198054    12.518841
1.00000     0.267440     1.126329     0.127112
0.000933    0.378083    12.504612

COMB DB-G1-3 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.254656    -0.714331     -0.147449
-0.000328   -0.353583    -5.102309
0.25000    -0.254656    -0.686213     -0.147449
-0.000328   -0.171747    -5.403986
0.50000    -0.254656    -0.659437     -0.147449
-0.000328   -0.018206    -5.754023
0.75000    -0.254656    -0.630869     -0.147449
-0.000328   -0.154638    -6.105160
1.00000    -0.254656    -0.609162     -0.147449
-0.000328   -0.311704    -6.504519

COMB DB-G1-4 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.294602     7.434446     0.157822
0.000917    0.390722    24.181721
0.25000     0.294602    20.238935     0.157822
0.000917    0.201076    56.207138
0.50000     0.294602    37.071971     0.157822
0.000917    0.078916    68.454085
0.75000     0.294602    52.843100     0.157822
0.000917    0.250094    55.179153
1.00000     0.294602    69.427840     0.157822
0.000917    0.470040    22.264604

COMB DB-G1-4 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.273244   -68.882523     -0.182056
-0.000587   -0.451283   -49.616846
0.25000    -0.273244   -52.316346     -0.182056
-0.000587   -0.227171   -21.237201
0.50000    -0.273244   -36.540750     -0.182056
-0.000587   -0.040990   -21.349420
0.75000    -0.273244   -19.709223     -0.182056
-0.000587   -0.200167   -22.109784
1.00000    -0.273244    -6.920327     -0.182056
-0.000587   -0.389528   -51.280615

COMB DB-G2-1 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.058882     0.442036     0.043037
0.000395    0.107304     5.887528
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          4774

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
       T           M2           M3
0.25000     0.058882     0.466184     0.043037
0.000395    0.054093     5.563889
0.50000     0.058882     0.497929     0.043037
0.000395    0.018823     5.326025
0.75000     0.058882     0.527672     0.043037
0.000395    0.073949     5.214886
1.00000     0.058882     0.558949     0.043037
0.000395    0.134076     5.224647

COMB DB-G2-1 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.105364    -0.362976     -0.050372
-0.000174   -0.117404    -2.020693
0.25000    -0.105364    -0.331734     -0.050372
-0.000174   -0.055450    -2.105357
0.50000    -0.105364    -0.301982     -0.050372
-0.000174   -0.007048    -2.243772
0.75000    -0.105364    -0.270240     -0.050372
-0.000174   -0.052251    -2.383410
1.00000    -0.105364    -0.246121     -0.050372
-0.000174   -0.105433    -2.576628

COMB DB-G2-2 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.142090     9.344835     0.066712
0.000572    0.165365    22.220559
0.25000     0.142090    26.876300     0.066712
0.000572    0.090284    66.662639
0.50000     0.142090    49.923511     0.066712
0.000572    0.073181    83.861594
0.75000     0.142090    71.516796     0.066712
0.000572    0.179152    65.875985
1.00000     0.142090    94.224050     0.066712
0.000572    0.315502    20.847376

COMB DB-G2-2 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.111883    -93.763971     -0.115866
-0.000357   -0.286508    -64.070543
0.25000    -0.111883    -71.082134     -0.115866
-0.000357   -0.144511    -24.937734
0.50000    -0.111883    -49.482732     -0.115866
-0.000357   -0.042184    -24.814986
0.75000    -0.111883    -26.437586     -0.115866
-0.000357   -0.089955    -25.079598
1.00000    -0.111883    -8.927472     -0.115866
-0.000357   -0.164612    -65.242840

COMB DB-G2-3 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.244366     8.602747     0.119092
0.000819    0.295687    23.343118
0.25000     0.244366    24.446264     0.119092
0.000819    0.155157    63.397588
0.50000     0.244366    45.274467     0.119092
0.000819    0.078136    78.837515
0.75000     0.244366    64.788729     0.119092
0.000819    0.222748    62.478199
1.00000     0.244366    85.309706     0.119092
0.000819    0.409277    21.673285

COMB DB-G2-3 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.212057   -84.812350     -0.155674
-0.000315   -0.386303   -59.517366
0.25000    -0.212057   -64.314343     -0.155674
-0.000315   -0.195003   -24.257108
0.50000    -0.212057   -44.734553     -0.155674
-0.000315   -0.043974   -24.250984
0.75000    -0.212057   -23.968216     -0.155674
-0.000315   -0.153037   -25.046783
1.00000    -0.212057    -8.143993     -0.155674
-0.000315   -0.293222   -60.996015
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                          Page
<              MOVING              LOAD              >
                          4775

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.271058     6.404716     0.166115
0.000900    0.410685    24.141915
0.25000     0.271058    16.800440     0.166115
0.000900    0.209747    49.851356
0.50000     0.271058    30.466865     0.166115
0.000900    0.077015    59.616600
0.75000     0.271058    43.271148     0.166115
0.000900    0.257788    48.794055
1.00000     0.271058    56.735986     0.166115
0.000900    0.488145    22.139288

COMB DB-G2-4 ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.246595   -56.137612     -0.189786
-0.000793   -0.467544   -41.346837
0.25000    -0.246595   -42.687845     -0.189786
-0.000793   -0.233787   -18.397796
0.50000    -0.246595   -29.879935     -0.189786
-0.000793   -0.037169   -18.580810
0.75000    -0.246595   -16.214735     -0.189786
```

```
-0.000793   -0.209871   -19.290065
1.00000   -0.246595   -5.831671   -0.189786
-0.000793   -0.410558   -43.065258

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.113135    0.662105    0.114886
0.000275    0.282365    8.742807
0.25000    0.113135    0.686253    0.114886
0.000275    0.140283    8.796241
0.50000    0.113135    0.717998    0.114886
0.000275    0.025423    7.963225
0.75000    0.113135    0.747741    0.114886
0.000275    0.135562    7.840327
1.00000    0.113135    0.779018    0.114886
0.000275    0.270291    7.844944

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.113208   -0.503243   -0.109044
-0.000811   -0.266785   -2.226417
0.25000   -0.113208   -0.472001   -0.109044
-0.000811   -0.134029   -2.362322
0.50000   -0.113208   -0.442249   -0.109044
-0.000811   -0.007815   -2.552128
0.75000   -0.113208   -0.410507   -0.109044
-0.000811   -0.143540   -2.743225
1.00000   -0.113208   -0.386388   -0.109044
-0.000811   -0.285523   -2.987943

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.202005   11.340201    0.158303
0.000418    0.387707   26.332431
0.25000    0.202005   32.687053    0.158303
0.000418    0.201012   80.577173
0.50000    0.202005   60.750049    0.158303
0.000418    0.084942  101.593581
0.75000    0.202005   87.042699    0.158303
0.000418    0.239927   79.701255
1.00000    0.202005  114.691752    0.158303
0.000418    0.450445   24.797446

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.173967  -114.166242   -0.174931
-0.001005   -0.446502   -77.198405
0.25000   -0.173967   -86.548137   -0.174931
-0.001005   -0.231242   -29.526144
0.50000   -0.173967   -60.248039   -0.174931
-0.001005   -0.048407   -29.353905
0.75000   -0.173967   -32.187558   -0.174931
-0.001005   -0.208662   -30.262226
1.00000   -0.173967   -10.866703   -0.174931
-0.001005   -0.395049   -78.534762
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4776

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.222045    8.471536    0.160138
0.000703    0.394361   27.165432
0.25000    0.222045   23.119726    0.160138
0.000703    0.202612   63.811015
0.50000    0.222045   42.376528    0.160138
0.000703    0.085597   77.843062
0.75000    0.222045   60.418521    0.160138
0.000703    0.274960   62.729521
1.00000    0.222045   79.391277    0.160138
0.000703    0.515744   25.166682

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.169947   -78.736721   -0.198475
-0.001118   -0.483389   -55.460705
0.25000   -0.169947   -59.785203   -0.198475
-0.001118   -0.244160   -22.941221
0.50000   -0.169947   -41.738099   -0.198475
-0.001118   -0.042243   -23.016243
0.75000   -0.169947   -22.483022   -0.198475
-0.001118   -0.208987   -23.387766
1.00000   -0.169947    -7.852671   -0.198475
-0.001118   -0.397422   -57.150577

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.260951    7.213354    0.178852
0.000862    0.441628   25.723467
0.25000    0.260951   19.329624    0.178852
0.000862    0.225674   55.847595
0.50000    0.260951   35.257914    0.178852
0.000862    0.082004   67.326482
0.75000    0.260951   50.181373    0.178852
0.000862    0.278807   54.749559
1.00000    0.260951   65.874712    0.178852
0.000862    0.527303   23.661638

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.239059   -65.230389   -0.204960
-0.000956   -0.506158   -47.276120
0.25000   -0.239059   -49.554615   -0.204960
-0.000956   -0.253731   -20.471520
0.50000   -0.239059   -34.626929   -0.204960
-0.000956   -0.039990   -20.627511
0.75000   -0.239059   -18.700067   -0.204960
-0.000956   -0.226943   -21.396834
1.00000   -0.239059    -6.598552   -0.204960
-0.000956   -0.442599   -49.049644

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.410370    0.340148    0.099656
0.000333    0.247249    4.918472
0.25000    0.410370    0.348350    0.099656
0.000333    0.124843    4.725914
0.50000    0.410370    0.367770    0.099656
0.000333    0.019160    4.525424
0.75000    0.410370    0.388906    0.099656
0.000333    0.149246    4.300704
1.00000    0.410370    0.407451    0.099656
0.000333    0.295853    4.068623

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.224832   -0.235501   -0.119157
-3.85E-06   -0.292530   -4.216805
0.25000   -0.224832   -0.216957   -0.119157
-3.85E-06   -0.144882   -4.181055
0.50000   -0.224832   -0.195820   -0.119157
-3.85E-06   -0.011873   -4.173137
0.75000   -0.224832   -0.176410   -0.119157
-3.85E-06   -0.123057   -4.165501
1.00000   -0.224832   -0.168229   -0.119157
-3.85E-06   -0.245475   -4.185682
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4777

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.506708    0.973258    0.164840
0.000609    0.405045    9.943011
0.25000    0.506708    1.211116    0.164840
0.000609    0.203591   10.199033
0.50000    0.506708    1.774291    0.164840
0.000609    0.037494   10.193072
0.75000    0.506708    2.387234    0.164840
0.000609    0.247487    9.429391
1.00000    0.506708    2.925027    0.164840
0.000609    0.477372    8.364818

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.402097   -2.568105   -0.189323
-8.80E-05   -0.458937   -8.750342
0.25000   -0.402097   -2.030319   -0.189323
-8.80E-05   -0.226521   -7.933126
0.50000   -0.402097   -1.417351   -0.189323
-8.80E-05   -0.022070   -7.924668
0.75000   -0.402097   -0.854451   -0.189323
-8.80E-05   -0.209704   -7.922842
1.00000   -0.402097   -0.617203   -0.189323
-8.80E-05   -0.411106   -8.728717

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.519414    1.343915    0.177689
0.000782    0.430029   15.494538
0.25000    0.519414    1.351297    0.177689
0.000782    0.213721   14.663659
0.50000    0.519414    1.368775    0.177689
0.000782    0.055466   13.950508
0.75000    0.519414    1.387797    0.177689
0.000782    0.307527   13.476033
1.00000    0.519414    1.404488    0.177689
0.000782    0.581923   13.123698

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.348146   -0.835163   -0.224989
-0.000298   -0.531656   -10.365058
0.25000   -0.348146   -0.818473   -0.224989
-0.000298   -0.256607   -10.346609
0.50000   -0.348146   -0.799450   -0.224989
-0.000298   -0.029472   -10.353086
0.75000   -0.348146   -0.781041   -0.224989
-0.000298   -0.232088   -10.359516
1.00000   -0.348146   -0.774618   -0.224989
-0.000298   -0.449662   -10.390976

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.558925    7.170424    0.226065
0.000770    0.544440   22.836631
0.25000    0.558925   12.909772    0.226065
0.000770    0.277958   39.456895
0.50000    0.558925   -21.822298    0.226065
0.000770    0.083155   48.558210
0.75000    0.558925   41.288686    0.226065
0.000770    0.394130   38.084592
1.00000    0.558925   54.265265    0.226065
0.000770    0.733328   20.140824

COMB DL-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.379935   -53.560789   -0.282733
-0.000514   -0.676688   -41.350063
0.25000   -0.379935   -40.584390   -0.282733
-0.000514   -0.332732   -21.822298
0.50000   -0.379935   -25.793884   -0.282733
-0.000514   -0.043929   -21.821607
0.75000   -0.379935   -12.211496   -0.282733
-0.000514   -0.306717   -21.974526
1.00000   -0.379935    -6.486861   -0.282733
-0.000514   -0.594563   -41.619078
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4778

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.081223    0.550211    0.062672
0.000321    0.149383    6.087788
0.25000    0.081223    0.558413    0.062672
0.000321    0.074319    5.831727
0.50000    0.081223    0.577833    0.062672
0.000321    0.021950    5.603306
0.75000    0.081223    0.598969    0.062672
0.000321    0.105375    5.397105
1.00000    0.081223    0.617514    0.062672
0.000321    0.193970    5.182520

COMB DL-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.159836   -0.389139   -0.072577
-0.000163   -0.166507   -3.919652
0.25000   -0.159836   -0.370594   -0.072577
-0.000163   -0.078958   -3.897225
0.50000   -0.159836   -0.349455   -0.072577
-0.000163   -0.011128   -3.902693
0.75000   -0.159836   -0.330047   -0.072577
-0.000163   -0.084443   -3.908344
1.00000   -0.159836   -0.321866   -0.072577
-0.000163   -0.161697   -3.941800

COMB DL-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.199289    9.541141    0.107960
0.000462    0.253247   19.910630
0.25000    0.199289   18.276268    0.107960
0.000462    0.137264   46.112319
0.50000    0.199289   38.958410    0.107960
0.000462    0.074993   60.779549
0.75000    0.199289   61.468185    0.107960
0.000462    0.237072   45.178260
1.00000    0.199289   81.218176    0.107960
0.000462    0.414552   18.078182

COMB DL-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.150005   -80.686729   -0.153517
-0.000314   -0.363280   -53.335832
0.25000   -0.150005   -60.937012   -0.153517
-0.000314   -0.180202   -23.613299
0.50000   -0.150005   -38.426273   -0.153517
-0.000314   -0.039576   -23.589086
0.75000   -0.150005   -17.754258   -0.153517
-0.000314   -0.164743   -23.809684
1.00000   -0.150005    -9.041522   -0.153517
-0.000314   -0.298026   -53.696383

COMB DL-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.415850    8.897300    0.172635
0.000671    0.415432   22.054418
0.25000    0.415850   16.803205    0.172635
0.000671    0.218064   45.599226
0.50000    0.415850   35.522000    0.172635
0.000671    0.083269   58.716829
0.75000    0.415850   55.894932    0.172635
0.000671    0.325244   44.425223
1.00000    0.415850   73.770065    0.172635
0.000671    0.590116   19.721971

COMB DL-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.293932   -73.143137   -0.224481
-0.000275   -0.538561   -51.561358
0.25000   -0.293932   -55.268252   -0.224481
-0.000275   -0.267217   -24.654811
0.50000   -0.293932   -34.894448   -0.224481
-0.000275   -0.045184   -24.627252
0.75000   -0.293932   -16.184819   -0.224481
-0.000275   -0.245109   -24.994174
1.00000   -0.293932    -8.299180   -0.224481
-0.000275   -0.456893   -52.086182
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4779

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.445985    6.328099    0.241495
0.000743    0.580067   23.062271
0.25000    0.445985   11.095510    0.241495
0.000743    0.293418   36.634986
0.50000    0.445985   22.383299    0.241495
0.000743    0.081845   44.017246
0.75000    0.445985   34.668564    0.241495
0.000743    0.411959   35.209578
1.00000    0.445985   45.447608    0.241495
0.000743    0.767026   20.248430

COMB DL-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.372424   -44.699529   -0.293951
-0.000681   -0.699062   -36.280893
0.25000   -0.372424   -33.920634   -0.293951
-0.000681   -0.341562   -20.080201
0.50000   -0.372424   -21.634844   -0.293951
-0.000681   -0.041872   -20.088285
0.75000   -0.372424   -10.350578   -0.293951
-0.000681   -0.328476   -20.373706
1.00000   -0.372424    -5.597392   -0.293951
-0.000681   -0.625758   -36.745937

COMB DL-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.151334    0.789186    0.167768
0.000240    0.403012    8.781363
0.25000    0.151334    0.797388    0.167768
0.000240    0.197646    8.354691
0.50000    0.151334    0.818807    0.167768
0.000240    0.028146    7.978244
0.75000    0.151334    0.837943    0.167768
0.000240    0.245312    7.706119
1.00000    0.151334    0.856488    0.167768
0.000240    0.472271    7.485192

COMB DL-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.252900   -0.511997   -0.183728
-0.000713   -0.436509   -4.377719
0.25000   -0.252900   -0.493452   -0.183728
-0.000713   -0.211544   -4.386963
0.50000   -0.252900   -0.472315   -0.183728
-0.000713   -0.012037   -4.422850
0.75000   -0.252900   -0.452905   -0.183728
-0.000713   -0.217644   -4.459020
1.00000   -0.252900   -0.444724   -0.183728
-0.000713   -0.425583   -4.522775

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.315584   13.214145    0.237725
0.000331    0.567868   27.165570
0.25000    0.315584   25.615564    0.237725
0.000331    0.296628   61.937135
0.50000    0.315584   54.978380    0.237725
0.000331    0.090769   82.903411
0.75000    0.315584   86.935920    0.237725
0.000331    0.401897   60.868096
1.00000    0.315584  114.975345    0.237725
0.000331    0.735893   22.470683

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.321835  -114.346815   -0.282954
-0.000849   -0.687014   -72.494758
0.25000   -0.321835   -86.307779   -0.282954
-0.000849   -0.344814   -30.316709
0.50000   -0.321835   -54.348872   -0.282954
-0.000849   -0.046647   -30.340708
0.75000   -0.321835   -25.000433   -0.282954
-0.000849   -0.334344   -30.688166
1.00000   -0.321835   -12.630803   -0.282954
-0.000849   -0.628897   -73.152282
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4780

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.304933   10.279794    0.245695
0.000554    0.584554   26.189053
0.25000    0.304933   19.219151    0.245695
0.000554    0.299193   52.709173
0.50000    0.304933   40.384847    0.245695
0.000554    0.094482   67.468161
0.75000    0.304933   63.420907    0.245695
0.000554    0.433021   51.315713
1.00000    0.304933   83.632659    0.245695
0.000554    0.795060   23.458790

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.310860   -82.854638   -0.302413
-0.000933   -0.719059   -57.029382
0.25000   -0.310860   -62.649167   -0.302413
-0.000933   -0.353046   -26.643815
0.50000   -0.310860   -39.606121   -0.302413
-0.000933   -0.047077   -26.650942
0.75000   -0.310860   -18.450788   -0.302413
-0.000933   -0.342342   -26.908605
1.00000   -0.310860    -9.534647   -0.302413
-0.000933   -0.646858   -57.525710

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.393572    8.816114    0.265284
0.000690    0.635773   25.514909
0.25000    0.393572   16.234821    0.265284
0.000690    0.324039   47.331534
0.50000    0.393572   33.800077    0.265284
0.000690    0.092296   59.419831
0.75000    0.393572   52.917533    0.265284
0.000690    0.448912   45.890053
1.00000    0.393572   69.691118    0.265284
0.000690    0.831312   22.651335

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.412974   -68.903889   -0.317926
-0.000799   -0.758745   -50.164137
0.25000   -0.412974   -52.130538   -0.317926
-0.000799   -0.373055   -24.993540
0.50000   -0.412974   -33.012263   -0.317926
-0.000799   -0.047203   -25.027137
0.75000   -0.412974   -15.455608   -0.317926
-0.000799   -0.364239   -25.304520
1.00000   -0.412974    -8.055918   -0.317926
-0.000799   -0.692437   -50.742321

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.294602   11.340201    0.178852
0.000933    0.441628   27.165432
0.25000    0.294602   32.687053    0.178852
0.000933    0.225674   80.577173
0.50000    0.294602   60.750049    0.178852
0.000933    0.085597  101.593581
0.75000    0.294602   87.042699    0.178852
0.000933    0.278807   79.701255
1.00000    0.294602  114.691752    0.178852
0.000933    0.527303   25.166682

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.289036  -114.166242   -0.204960
-0.001118   -0.506158   -77.198405
0.25000   -0.289036   -86.548137   -0.204960
-0.001118   -0.253731   -29.526144
0.50000   -0.289036   -60.248039   -0.204960
-0.001118   -0.048407   -29.353905
0.75000   -0.289036   -32.187558   -0.204960
-0.001118   -0.226943   -30.262226
1.00000   -0.289036   -10.866703   -0.204960
-0.001118   -0.442599   -78.534762
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4781

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.558925   13.214145    0.265284
0.000782    0.635773   26.189053
0.25000    0.558925   25.615564    0.265284
0.000782    0.324039   61.937135
0.50000    0.558925   54.978380    0.265284
0.000782    0.094482   82.903411
0.75000    0.558925   86.935920    0.265284
0.000782    0.448912   60.868096
1.00000    0.558925  114.975345    0.265284
0.000782    0.831312   23.458790

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.412974  -114.346815   -0.317926
-0.000933   -0.758745   -72.494758
0.25000   -0.412974   -86.307779   -0.317926
-0.000933   -0.373055   -30.316709
0.50000   -0.412974   -54.348872   -0.317926
-0.000933   -0.047203   -30.340708
0.75000   -0.412974   -25.000433   -0.317926
-0.000933   -0.364239   -30.688166
1.00000   -0.412974   -12.630803   -0.317926
-0.000933   -0.692437   -73.152282

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.558925   13.214145    0.265284
0.000933    0.635773   27.165432
0.25000    0.558925   32.687053    0.265284
0.000933    0.324039   80.577173
0.50000    0.558925   60.750049    0.265284
0.000933    0.094482  101.593581
0.75000    0.558925   87.042699    0.265284
0.000933    0.448912   79.701255
1.00000    0.558925  114.975345    0.265284
0.000933    0.831312   25.166682

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.412974  -114.346815   -0.317926
-0.001118   -0.758745   -77.198405
0.25000   -0.412974   -86.548137   -0.317926
-0.001118   -0.373055   -30.316709
0.50000   -0.412974   -60.248039   -0.317926
-0.001118   -0.048407   -30.340708
0.75000   -0.412974   -32.187558   -0.317926
-0.001118   -0.364239   -30.688166
1.00000   -0.412974   -12.630803   -0.317926
-0.001118   -0.692437   -78.534762

COMB      DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000    0.558925   13.214145    0.265284
0.000933    0.635773   27.165432
0.25000    0.558925   32.687053    0.265284
0.000933    0.324039   80.577173
0.50000    0.558925   60.750049    0.265284
0.000933    0.094482  101.593581
0.75000    0.558925   87.042699    0.265284
0.000933    0.448912   79.701255
1.00000    0.558925  114.975345    0.265284
0.000933    0.831312   25.166682

COMB      DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000   -0.412974  -114.346815   -0.317926
-0.001118   -0.758745   -77.198405
0.25000   -0.412974   -86.548137   -0.317926
-0.001118   -0.373055   -30.316709
0.50000   -0.412974   -60.248039   -0.317926
-0.001118   -0.048407   -30.340708
0.75000   -0.412974   -32.187558   -0.317926
-0.001118   -0.364239   -30.688166
1.00000   -0.412974   -12.630803   -0.317926
-0.001118   -0.692437   -78.534762
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    4782

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       467 ========== LENGTH
=     4.942457

COMB DB-G1-1 ------------------- MAX
```

```
REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.152760    0.374370    0.075834
 0.000593    0.188010    3.434540
 0.25000    0.152760    0.398536    0.075834
 0.000593    0.094296    3.076090
 0.50000    0.152760    0.430301    0.075834
 0.000593    0.009907    2.690868
 0.75000    0.152760    0.460052    0.075834
 0.000593    0.096809    2.271498
 1.00000    0.152760    0.491338    0.075834
 0.000593    0.185080    1.837970

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.157227   -0.245204   -0.071528
-4.01E-07   -0.188623   -2.640221
 0.25000   -0.157227   -0.214029   -0.071528
-4.01E-07   -0.080924   -2.502986
 0.50000   -0.157227   -0.184260   -0.071528
-4.01E-07   -0.007884   -2.419513
 0.75000   -0.157227   -0.152503   -0.071528
-4.01E-07   -0.093087   -2.337306
 1.00000   -0.157227   -0.128463   -0.071528
-4.01E-07   -0.186794   -2.309573

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.211298    1.173799    0.121476
 0.001067    0.301233    7.614050
 0.25000    0.211298    1.850437    0.121476
 0.001067    0.151115    8.378745
 0.50000    0.211298    2.739864    0.121476
 0.001067    0.021495    8.205314
 0.75000    0.211298    3.572904    0.121476
 0.001067    0.181342    6.746698
 1.00000    0.211298    4.448903    0.121476
 0.001067    0.345678    4.453418

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.270768   -3.801899   -0.133413
-4.01E-07   -0.315103   -6.991246
 0.25000   -0.270768   -2.929003   -0.133413
-4.01E-07   -0.150478   -5.342741
 0.50000   -0.270768   -2.095471   -0.133413
-4.01E-07   -0.013214   -5.199563
 0.75000   -0.270768   -1.206279   -0.133413
-4.01E-07   -0.149193   -5.085913
 1.00000   -0.270768   -0.533138   -0.133413
-4.01E-07   -0.299109   -6.486282

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.246792    1.521827    0.125029
 0.001244    0.308395   12.539533
 0.25000    0.246792    1.543576    0.125029
 0.001244    0.153809   10.956684
 0.50000    0.246792    1.572165    0.125029
 0.001244    0.032897    9.545353
 0.75000    0.246792    1.598941    0.125029
 0.001244    0.255139    8.397618
 1.00000    0.246792    1.627098    0.125029
 0.001244    0.487686    7.521520

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.237124   -0.406756   -0.188682
-0.000194   -0.445576   -6.511887
 0.25000   -0.237124   -0.378699   -0.188682
-0.000194   -0.212833   -6.307184
 0.50000   -0.237124   -0.351907   -0.188682
-0.000194   -0.019273   -6.150866
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4783

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.75000   -0.237124   -0.323326   -0.188682
-0.000194   -0.158045   -5.995693
 1.00000   -0.237124   -0.301689   -0.188682
-0.000194   -0.309525   -5.889572

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.274545    8.029043    0.157908
 0.001095    0.389222   22.301584
 0.25000    0.274545   20.284273    0.157908
 0.001095    0.194025   53.380534
 0.50000    0.274545   37.686397    0.157908
 0.001095    0.064386   64.642814
 0.75000    0.274545   53.462103    0.157908
 0.001095    0.312110   50.082083
 1.00000    0.274545   70.051324    0.157908
 0.001095    0.586102   16.324476

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.253997   -68.370229   -0.225986
-0.000553   -0.549915   -51.286480
 0.25000   -0.253997   -51.839760   -0.225986
-0.000553   -0.271073   -22.469585
 0.50000   -0.253997   -36.054750   -0.225986
-0.000553   -0.043343   -22.159813
 0.75000   -0.253997   -19.215677   -0.225986
-0.000553   -0.202475   -22.400165
 1.00000   -0.253997    -6.468071   -0.225986
-0.000553   -0.391214   -51.314154

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.053483    0.649440    0.041281
 0.000504    0.102498    5.236981
 0.25000    0.053483    0.673606    0.041281
 0.000504    0.051500    4.596633
 0.50000    0.053483    0.705371    0.041281
 0.000504    0.013891    4.012679
 0.75000    0.053483    0.735123    0.041281
 0.000504    0.101226    3.509236
 1.00000    0.053483    0.766408    0.041281
 0.000504    0.193160    3.138192

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.103628   -0.242197   -0.074597
-4.41E-06   -0.175950   -2.580220
 0.25000   -0.103628   -0.211022   -0.074597
-4.41E-06   -0.084056   -2.473414
 0.50000   -0.103628   -0.181253   -0.074597
-4.41E-06   -0.007367   -2.420369
 0.75000   -0.103628   -0.149496   -0.074597
-4.41E-06   -0.050487   -2.368380
 1.00000   -0.103628   -0.125455   -0.074597
-4.41E-06   -0.101474   -2.370474

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.136962    9.778984    0.067793
 0.000664    0.165845   20.869039
 0.25000    0.136962   27.323238    0.067793
 0.000664    0.081955   64.633975
 0.50000    0.136962   50.384810    0.067793
 0.000664    0.063272   81.141747
 0.75000    0.136962   71.984363    0.067793
 0.000664    0.229471   62.067079
 1.00000    0.136962   94.697751    0.067793
 0.000664    0.423876   16.535360

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.107905   -93.294116   -0.162786
-0.000209   -0.406459   -65.245946
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4784

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.25000   -0.107905   -70.661168   -0.162786
-0.000209   -0.205682   -25.906249
 0.50000   -0.107905   -49.048878   -0.162786
-0.000209   -0.044422   -25.597521
 0.75000   -0.107905   -25.993400   -0.162786
-0.000209   -0.094131   -26.048618
 1.00000   -0.107905    -8.539817   -0.162786
-0.000209   -0.169196   -65.744521

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.229238    9.134703    0.117876
 0.001079    0.290244   21.705650
 0.25000    0.229238   24.989779    0.117876
 0.001079    0.144597   60.925788
 0.50000    0.229238   45.830959    0.117876
 0.001079    0.065360   75.506545
 0.75000    0.229238   65.350886    0.117876
 0.001079    0.284877   57.837792
 1.00000    0.229238   85.877406    0.117876
 0.001079    0.531084   16.455319

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.197761   -84.404471   -0.204227
-0.000163   -0.501758   -61.000563
 0.25000   -0.197761   -63.950645   -0.204227
-0.000163   -0.249821   -25.386326
 0.50000   -0.197761   -44.419207   -0.204227
-0.000163   -0.046295   -25.045118
 0.75000   -0.197761   -23.587334   -0.204227
-0.000163   -0.154745   -25.390672
 1.00000   -0.197761    -7.810400   -0.204227
-0.000163   -0.292334   -61.202717

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.253035    7.032819    0.167071
 0.000889    0.411649   22.176745
 0.25000    0.253035   17.436127    0.167071
 0.000889    0.205102   46.877382
 0.50000    0.253035   31.111067    0.167071
 0.000889    0.062090   55.582103
 0.75000    0.253035   43.919066    0.167071
 0.000889    0.315515   43.435212
 1.00000    0.253035   57.387542    0.167071
 0.000889    0.594554   15.817489

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.229085   -55.539424   -0.229826
-0.000826   -0.562614   -43.072498
 0.25000   -0.229085   -42.116647   -0.229826
-0.000826   -0.278980   -19.667373
 0.50000   -0.229085   -29.303095   -0.229826
-0.000826   -0.039247   -19.406645
 0.75000   -0.229085   -15.631768   -0.229826
-0.000826   -0.213404   -19.596552
 1.00000   -0.229085    -5.282226   -0.229826
-0.000826   -0.414075   -43.057835

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.104987    0.946091    0.117393
 7.06E-06    0.289114    7.861314
 0.25000    0.104987    0.970257    0.117393
 7.06E-06    0.144546    6.935618
 0.50000    0.104987    1.002022    0.117393
 7.06E-06    0.018981    6.071878
 0.75000    0.104987    1.031774    0.117393
 7.06E-06    0.136502    5.372868
 1.00000    0.104987    1.063189    0.117393
 7.06E-06    0.272749    4.840038
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4785

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.104515   -0.263246   -0.110279
-0.001028   -0.272335   -2.992145
 0.25000   -0.104515   -0.232071   -0.110279
-0.001028   -0.136071   -2.921381
 0.50000   -0.104515   -0.202300   -0.110279
-0.001028   -0.008425   -2.904379
 0.75000   -0.104515   -0.170546   -0.110279
-0.001028   -0.145534   -2.888423
 1.00000   -0.104515   -0.146505   -0.110279
-0.001028   -0.290595   -2.926524

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.193472   11.843104    0.164076
 8.79E-05    0.404198   24.821742
 0.25000    0.193472   33.205529    0.164076
 8.79E-05    0.201397   78.270461
 0.50000    0.193472   61.286010    0.164076
 8.79E-05    0.074076   98.459206
 0.75000    0.193472   87.586292    0.164076
 8.79E-05    0.256605   75.278275
 1.00000    0.193472  115.242814    0.164076
 8.79E-05    0.485883   19.805466

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.160408  -113.613899   -0.191773
-0.001239   -0.492868   -78.537158
 0.25000   -0.160408   -86.055323   -0.191773
-0.001239   -0.255738   -30.697775
 0.50000   -0.160408   -59.739531   -0.191773
-0.001239   -0.051239   -30.383705
 0.75000   -0.160408   -31.666470   -0.191773
-0.001239   -0.210185   -30.994821
 1.00000   -0.160408   -10.414449   -0.191773
-0.001239   -0.406746   -79.391623

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.210614    9.111669    0.163473
 0.000459    0.401771   25.199612
 0.25000    0.210614   23.770546    0.163473
 0.000459    0.200155   60.814888
 0.50000    0.210614   43.039347    0.163473
 0.000459    0.071226   73.775102
 0.75000    0.210614   61.086576    0.163473
 0.000459    0.312862   57.182160
 1.00000    0.210614   80.064457    0.163473
 0.000459    0.597875   18.677992

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.157428   -78.066478   -0.235173
-0.001219   -0.585979   -57.157084
 0.25000   -0.157428   -59.155808   -0.235173
-0.001219   -0.295665   -24.280409
 0.50000   -0.157428   -41.079436   -0.235173
-0.001219   -0.044714   -24.015560
 0.75000   -0.157428   -21.834227   -0.235173
-0.001219   -0.212085   -24.385574
 1.00000   -0.157428    -7.251109   -0.235173
-0.001219   -0.406201   -57.546082

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.244500    7.876654    0.180665
 0.000771    0.445059   23.699143
 0.25000    0.244500   20.001763    0.180665
 0.000771    0.222722   52.776503
 0.50000    0.244500   35.939978    0.180665
 0.000771    0.066800   63.140698
 0.75000    0.244500   50.867768    0.180665
 0.000771    0.327775   49.138563
 1.00000    0.244500   66.565347    0.180665
 0.000771    0.626196   17.060665
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4786

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.222589   -64.653653   -0.245340
-0.001036   -0.604319   -49.056996
 0.25000   -0.222589   -49.011668   -0.245340
-0.001036   -0.301513   -21.814355
 0.50000   -0.222589   -34.075074   -0.245340
-0.001036   -0.042287   -21.546630
 0.75000   -0.222589   -18.141072   -0.245340
-0.001036   -0.230887   -21.804062
 1.00000   -0.222589    -6.078626   -0.245340
-0.001036   -0.447854   -49.184283

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.366221    0.483613    0.110591
 0.000580    0.265871    4.067328
 0.25000    0.366221    0.491819    0.110591
 0.000580    0.129066    3.565993
 0.50000    0.366221    0.511253    0.110591
 0.000580    0.012395    3.058550
 0.75000    0.366221    0.532403    0.110591
 0.000580    0.178863    2.528469
 1.00000    0.366221    0.550954    0.110591
 0.000580    0.348545    1.990189

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.213206   -0.306632   -0.137237
-2.26E-07   -0.329289   -4.171108
 0.25000   -0.213206   -0.288082   -0.137237
-2.26E-07   -0.159940   -3.854205
 0.50000   -0.213206   -0.266936   -0.137237
-2.26E-07   -0.010886   -3.565231
 0.75000   -0.213206   -0.247527   -0.137237
-2.26E-07   -0.143747   -3.276262
 1.00000   -0.213206   -0.239387   -0.137237
-2.26E-07   -0.280587   -3.015603

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.459840    1.233626    0.188731
 0.001010    0.459840    8.367551
 0.25000    0.459840    1.471621    0.188731
 0.001010    0.219814    8.010171
 0.50000    0.459840    2.035195    0.188731
 0.001010    0.025412    7.381553
 0.75000    0.459840    2.648530    0.188731
 0.001010    0.309594    6.000761
 1.00000    0.459840    3.261914    0.188731
 0.001010    0.599623    4.340337

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.367637   -2.600545   -0.234916
-2.26E-07   -0.561148   -8.711920
 0.25000   -0.367637   -2.062604   -0.234916
-2.26E-07   -0.270973   -7.401682
 0.50000   -0.367637   -1.449377   -0.234916
-2.26E-07   -0.020057   -6.901483
 0.75000   -0.367637   -0.886503   -0.234916
-2.26E-07   -0.245715   -6.435630
 1.00000   -0.367637   -0.650462   -0.234916
-2.26E-07   -0.480401   -6.722959

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.483942    1.679862    0.218317
 0.001143    0.517925   13.141374
 0.25000    0.483942    1.687248    0.218317
 0.001143    0.248266   11.407539
 0.50000    0.483942    1.704738    0.218317
 0.001143    0.037989    9.734031
 0.75000    0.483942    1.723772    0.218317
 0.001143    0.399269    8.293359
 1.00000    0.483942    1.740468    0.218317
 0.001143    0.769392    6.982432
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4787

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.320445   -0.659294   -0.299637
-0.000187   -0.710079   -10.387218
 0.25000   -0.320445   -0.642599   -0.299637
-0.000187   -0.340824    -9.706837
 0.50000   -0.320445   -0.623568   -0.299637
-0.000187   -0.026953    -9.051552
 0.75000   -0.320445   -0.606099   -0.299637
-0.000187   -0.290483    -8.396069
 1.00000   -0.320445   -0.598774   -0.299637
-0.000187   -0.559492    -7.764683

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.520977    7.508325    0.273365
 0.001013    0.650105   20.178741
 0.25000    0.520977   13.250968    0.273365
 0.001013    0.320498   35.750237
 0.50000    0.520977   26.849628    0.273365
 0.001013    0.063739   43.765243
 0.75000    0.520977   41.648989    0.273365
 0.001013    0.495745   32.129596
 1.00000    0.520977   54.630163    0.273365
 0.001013    0.942116   13.233928

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.348827   -53.236646   -0.367534
-0.000499   -0.882890   -41.634369
 0.25000   -0.348827   -40.256498   -0.367534
-0.000499   -0.430943   -21.430887
 0.50000   -0.348827   -25.459757   -0.367534
-0.000499   -0.042112   -20.773852
 0.75000   -0.348827   -11.877973   -0.367534
-0.000499   -0.371526   -20.173982
 1.00000   -0.348827    -6.182475   -0.367534
-0.000499   -0.708718   -39.297725

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.078574    0.682132    0.078437
 0.000428    0.186375    5.190964
 0.25000    0.078574    0.690339    0.078437
 0.000428    0.089422    4.554330
 0.50000    0.078574    0.709773    0.078437
 0.000428    0.015491    3.936325
 0.75000    0.078574    0.730922    0.078437
 0.000428    0.143434    3.342108
 1.00000    0.078574    0.749473    0.078437
 0.000428    0.274928    2.750795

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.134367   -0.297445   -0.106476
-2.26E-06   -0.251347   -3.944112
 0.25000   -0.134367   -0.278896   -0.106476
-2.26E-06   -0.119885   -3.678467
 0.50000   -0.134367   -0.257750   -0.106476
-2.26E-06   -0.010005   -3.440684
 0.75000   -0.134367   -0.238340   -0.106476
-2.26E-06   -0.104363   -3.202877
 1.00000   -0.134367   -0.230218   -0.106476
-2.26E-06   -0.201192   -2.992974

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.199194    9.724763    0.141894
 0.000557    0.332620   18.105186
 0.25000    0.199194   18.464905    0.141894
 0.000557    0.169700   43.561938
 0.50000    0.199194   39.161688    0.141894
 0.000557    0.062197   57.467079
 0.75000    0.199194   61.685902    0.141894
 0.000557    0.311044   41.115607
 1.00000    0.199194   81.442887    0.141894
 0.000557    0.573509   13.366297
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4788

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.130519   -80.339773   -0.222046
-0.000194   -0.537302   -53.710041
 0.25000   -0.130519   -60.584349   -0.222046
-0.000194   -0.266352   -23.563931
 0.50000   -0.130519   -38.064122   -0.222046
-0.000194   -0.038866   -23.167519
 0.75000   -0.130519   -17.393025   -0.222046
-0.000194   -0.208582   -22.858581
 1.00000   -0.130519    -8.724635   -0.222046
-0.000194   -0.382117   -52.568600

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.395544    9.187708    0.214585
 0.000950    0.508215   19.746086
 0.25000    0.395544   17.098153    0.214585
 0.000950    0.253815   42.353481
 0.50000    0.395544   35.830198    0.214585
 0.000950    0.066726   54.513043
 0.75000    0.395544   56.216199    0.214585
 0.000950    0.418941   39.194498
 1.00000    0.395544   74.097661    0.214585
 0.000950    0.786169   13.743153

COMB DL-G2-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.263818   -72.885782   -0.305825
-0.000168   -0.737048   -52.090621
 0.25000   -0.263818   -55.005733   -0.305825
-0.000168   -0.362188   -24.600208
 0.50000   -0.263818   -34.623340   -0.305825
-0.000168   -0.043727   -24.088298
 0.75000   -0.263818   -15.914523   -0.305825
-0.000168   -0.307799   -23.604860
 1.00000   -0.263818    -8.069039   -0.305825
-0.000168   -0.564313   -50.290591

COMB DL-G2-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.423493    6.684764    0.292504
 0.000787    0.697886   20.299743
 0.25000    0.423493   11.454912    0.292504
 0.000787    0.342334   32.763951
 0.50000    0.423493   22.750691    0.292504
 0.000787    0.062510   38.978387
 0.75000    0.423493   35.043837    0.292504
 0.000787    0.514465   28.939231
 1.00000    0.423493   45.826698    0.292504
 0.000787    0.980564   12.934446

COMB DL-G2-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.335192   -44.290456   -0.382492
-0.000742   -0.918857   -36.779709
 0.25000   -0.335192   -33.508447   -0.382492
-0.000742   -0.448263   -19.914205
 0.50000   -0.335192   -21.217478   -0.382492
-0.000742   -0.039908   -19.329468
 0.75000   -0.335192    -9.935717   -0.382492
-0.000742   -0.393801   -18.749849
 1.00000   -0.335192    -5.204730   -0.382492
-0.000742   -0.754359   -34.553413

COMB DL-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.145580    0.961868    0.191076
 6.85E-06    0.461857    7.537115
 0.25000    0.145580    0.970075    0.191076
 6.85E-06    0.225120    6.576452
 0.50000    0.145580    0.989508    0.191076
 6.85E-06    0.019908    5.653126
 0.75000    0.145580    1.010658    0.191076
 6.85E-06    0.279068    4.811338
 1.00000    0.145580    1.029209    0.191076
 6.85E-06    0.546095    4.029671
```

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4789

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.229771	-0.280652	-0.216112
-0.000967	-0.522070	-4.570491	
0.25000	-0.229771	-0.262102	-0.216112
-0.000967	-0.255071	-4.319563	
0.50000	-0.229771	-0.240956	-0.216112
-0.000967	-0.011253	-4.096830	
0.75000	-0.229771	-0.221547	-0.216112
-0.000967	-0.245016	-3.873545	
1.00000	-0.229771	-0.213408	-0.216112
-0.000967	-0.481526	-3.677530	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.301414	13.412213	0.276283
6.62E-05	0.662502	22.542132	
0.25000	0.301414	25.820754	0.276283
6.62E-05	0.538162	59.089722	
0.50000	0.301414	55.204355	0.276283
6.62E-05	0.077062	79.201815	
0.75000	0.301414	87.182395	0.276283
6.62E-05	0.464846	56.181635	
1.00000	0.301414	115.231747	0.276283
6.62E-05	0.872994	17.225255	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.294162	-113.894668	-0.343866
-0.001116	-0.845465	-73.210896	
0.25000	-0.294162	-85.847532	-0.343866
-0.001116	-0.425304	-30.651312	
0.50000	-0.294162	-53.875152	-0.343866
-0.001116	-0.046856	-30.331005	
0.75000	-0.294162	-24.528017	-0.343866
-0.001116	-0.380602	-30.130619	
1.00000	-0.294162	-12.221345	-0.343866
-0.001116	-0.722196	-72.547149	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.298392	10.573792	0.295907
0.000360	0.706295	23.533752	
0.25000	0.298392	19.518272	0.295907
0.000360	0.352824	48.940134	
0.50000	0.298392	40.698951	0.295907
0.000360	0.076235	62.555328	
0.75000	0.298392	62.749788	0.295907
0.000360	0.523429	45.158486	
1.00000	0.298392	83.968696	0.295907
0.000360	0.991005	16.361268	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.278377	-82.297261	-0.388280
-0.001120	-0.941878	-57.585967	
0.25000	-0.278377	-62.079951	-0.388280
-0.001120	-0.465509	-26.628066	
0.50000	-0.278377	-39.033194	-0.388280
-0.001120	-0.078142	-26.117451	
0.75000	-0.278377	-17.878801	-0.388280
-0.001120	-0.404083	-25.691351	
1.00000	-0.278377	-9.007741	-0.388280
-0.001120	-0.768926	-55.988098	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.378322	9.164978	0.317167
0.000672	0.758007	22.715010	
0.25000	0.378322	16.587944	0.317167
0.000672	0.376130	43.371751	
0.50000	0.378322	34.165634	0.317167
0.000672	0.072759	54.257782	
0.75000	0.378322	53.295355	0.317167
0.000672	0.549202	39.450359	
1.00000	0.378322	70.074878	0.317167
0.000672	1.044665	15.197055	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4790

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.370295	-68.454004	-0.409126
-0.000933	-0.988641	-50.788233	
0.25000	-0.370295	-51.675807	-0.409126
-0.000933	-0.485982	-24.919437	
0.50000	-0.370295	-32.549473	-0.409126
-0.000933	-0.045611	-24.328476	
0.75000	-0.370295	-14.993597	-0.409126
-0.000933	-0.428924	-23.801058	
1.00000	-0.370295	-7.631570	-0.409126
-0.000933	-0.820049	-48.768053	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.274545	11.843104	0.180665
0.001244	0.445059	25.199612	
0.25000	0.274545	33.205529	0.180665
0.001244	0.221722	78.270461	
0.50000	0.274545	61.286010	0.180665
0.001244	0.074076	98.459206	
0.75000	0.274545	87.586292	0.180665
0.001244	0.327775	75.278275	
1.00000	0.274545	115.242814	0.180665
0.001244	0.626196	19.805466	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.270768	-113.613899	-0.245340
-0.001239	-0.604319	-78.537158	
0.25000	-0.270768	-86.055323	-0.245340
-0.001239	-0.301513	-30.697775	
0.50000	-0.270768	-59.739531	-0.245340
-0.001239	-0.051239	-30.383705	
0.75000	-0.270768	-31.666470	-0.245340
-0.001239	-0.230887	-30.994821	
1.00000	-0.270768	-10.414449	-0.245340
-0.001239	-0.447854	-79.391623	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.520977	13.412213	0.317167
0.001143	0.758007	23.533752	
0.25000	0.520977	25.820754	0.317167
0.001143	0.376130	59.089722	
0.50000	0.520977	55.204355	0.317167
0.001143	0.077062	79.201815	
0.75000	0.520977	87.182395	0.317167
0.001143	0.549202	56.181635	
1.00000	0.520977	115.231747	0.317167
0.001143	1.044665	17.225255	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.370295	-113.894668	-0.409126
-0.001120	-0.988641	-73.210896	
0.25000	-0.370295	-85.847532	-0.409126
-0.001120	-0.485982	-30.651312	
0.50000	-0.370295	-53.875152	-0.409126
-0.001120	-0.046856	-30.331005	
0.75000	-0.370295	-24.528017	-0.409126
-0.001120	-0.428924	-30.130619	
1.00000	-0.370295	-12.221345	-0.409126
-0.001120	-0.820049	-72.547149	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.520977	13.412213	0.317167
0.001244	0.758007	25.199612	
0.25000	0.520977	33.205529	0.317167
0.001244	0.376130	78.270461	
0.50000	0.520977	61.286010	0.317167
0.001244	0.077062	98.459206	
0.75000	0.520977	87.586292	0.317167
0.001244	0.549202	75.278275	
1.00000	0.520977	115.242814	0.317167
0.001244	1.044665	19.805466	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4791

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.370295	-113.894668	-0.409126
-0.001239	-0.988641	-78.537158	
0.25000	-0.370295	-86.055323	-0.409126
-0.001239	-0.485982	-30.697775	
0.50000	-0.370295	-59.739531	-0.409126
-0.001239	-0.051239	-30.383705	
0.75000	-0.370295	-31.666470	-0.409126
-0.001239	-0.428924	-30.994821	
1.00000	-0.370295	-12.221345	-0.409126
-0.001239	-0.820049	-79.391623	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.520977	13.412213	0.317167
0.001244	0.758007	25.199612	
0.25000	0.520977	33.205529	0.317167
0.001244	0.376130	78.270461	
0.50000	0.520977	61.286010	0.317167
0.001244	0.077062	98.459206	
0.75000	0.520977	87.586292	0.317167
0.001244	0.549202	75.278275	
1.00000	0.520977	115.242814	0.317167
0.001244	1.044665	19.805466	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.370295	-113.894668	-0.409126
-0.001239	-0.988641	-78.537158	
0.25000	-0.370295	-86.055323	-0.409126
-0.001239	-0.485982	-30.697775	
0.50000	-0.370295	-59.739531	-0.409126
-0.001239	-0.051239	-30.383705	
0.75000	-0.370295	-31.666470	-0.409126
-0.001239	-0.428924	-30.994821	
1.00000	-0.370295	-12.221345	-0.409126
-0.001239	-0.820049	-79.391623	

ELEM 468 ========== LENGTH = 4.942920

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139358	0.262112	0.074728
0.000707	0.184713	1.857749	
0.25000	0.139358	0.286309	0.074728
0.000707	0.092357	1.644153	
0.50000	0.139358	0.318139	0.074728
0.000707	0.004806	1.408271	
0.75000	0.139358	0.347913	0.074728
0.000707	0.108254	1.141905	
1.00000	0.139358	0.379435	0.074728
0.000707	0.213258	0.870769	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.143738	-0.205103	-0.085030
-4.80E-07	-0.207106	-2.316743	
0.25000	-0.143738	-0.173949	-0.085030
-4.80E-07	-0.102084	-2.288602	
0.50000	-0.143738	-0.144126	-0.085030
-4.80E-07	-0.008106	-2.314092	
0.75000	-0.143738	-0.112358	-0.085030
-4.80E-07	-0.092321	-2.341107	
1.00000	-0.143738	-0.088399	-0.085030
-4.80E-07	-0.184666	-2.422793	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.192986	0.925067	0.119562
0.001263	0.295569	4.487581	
0.25000	0.192986	1.602580	0.119562
0.001263	0.147808	5.544807	
0.50000	0.192986	2.493814	0.119562
0.001263	0.012209	5.647880	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4792

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.192986	3.327505	0.119562
0.001263	0.203376	4.436287	
1.00000	0.192986	4.210099	0.119562
0.001263	0.399551	2.563403	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.253723	-3.755373	-0.159219
-2.27E-06	-0.388317	-6.500071	
0.25000	-0.253723	-2.883055	-0.159219
-2.27E-06	-0.191670	-5.060057	
0.50000	-0.253723	-2.048018	-0.159219
-2.27E-06	-0.015571	-5.118979	
0.75000	-0.253723	-1.158499	-0.159219
-2.27E-06	-0.148674	-5.200277	
1.00000	-0.253723	-0.487643	-0.159219
-2.27E-06	-0.295497	-6.812528	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.229060	1.084287	0.139850
0.001462	0.336258	7.567499	
0.25000	0.229060	1.106065	0.139850
0.001462	0.163381	6.524198	
0.50000	0.229060	1.134711	0.139850
0.001462	0.019500	5.638663	
0.75000	0.229060	1.161509	0.139850
0.001462	0.264226	5.005490	
1.00000	0.229060	1.189878	0.139850
0.001462	0.560133	4.587549	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.220223	-0.387883	-0.223436
-4.46E-07	-0.544674	-5.910145	
0.25000	-0.220223	-0.359844	-0.223436
-4.46E-07	-0.268747	-6.038233	
0.50000	-0.220223	-0.333004	-0.223436
-4.46E-07	-0.019923	-6.214501	
0.75000	-0.220223	-0.304412	-0.223436
-4.46E-07	-0.182005	-6.392244	
1.00000	-0.220223	-0.282849	-0.223436
-4.46E-07	-0.354890	-6.619367	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257484	7.290095	0.170806
0.001213	0.414545	16.375923	
0.25000	0.257484	20.120493	0.170806
0.001213	0.203415	48.098613	
0.50000	0.257484	36.998232	0.170806
0.001213	0.048743	59.925186	
0.75000	0.257484	52.786265	0.170806
0.001213	0.340691	44.430873	
1.00000	0.257484	69.500380	0.170806
0.001213	0.657739	12.881406	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.236295	-68.423668	-0.263573
-0.000462	-0.657664	-51.330754	
0.25000	-0.236295	-51.904144	-0.263573
-0.000462	-0.332128	-22.737172	
0.50000	-0.236295	-36.090627	-0.263573
-0.000462	-0.045153	-22.529668	
0.75000	-0.236295	-19.245365	-0.263573
-0.000462	-0.226607	-22.729567	
1.00000	-0.236295	-6.541036	-0.263573
-0.000462	-0.431898	-51.918737	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.049874	0.466592	0.043576
0.000591	0.102713	3.154276	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4793

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.049874	0.490789	0.043576
0.000591	0.050005	2.751726	
0.50000	0.049874	0.522619	0.043576
0.000591	0.008800	2.390750	
0.75000	0.049874	0.552393	0.043576
0.000591	0.113172	2.118192	
1.00000	0.049874	0.583915	0.043576
0.000591	0.222758	1.946591	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.101469	-0.225297	-0.088744
-4.79E-06	-0.216226	-2.378986	
0.25000	-0.101469	-0.194143	-0.088744
-4.79E-06	-0.106636	-2.409307	
0.50000	-0.101469	-0.164320	-0.088744
-4.79E-06	-0.007603	-2.493162	
0.75000	-0.101469	-0.132552	-0.088744
-4.79E-06	-0.058757	-2.577855	
1.00000	-0.101469	-0.108592	-0.088744
-4.79E-06	-0.112596	-2.717248	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.133020	9.088056	0.085891
0.000776	0.202099	16.567749	
0.25000	0.133020	26.654994	0.085891
0.000776	0.095869	60.837334	
0.50000	0.133020	49.763412	0.085891
0.000776	0.052547	77.720272	
0.75000	0.133020	71.379842	0.085891
0.000776	0.247460	56.994666	
1.00000	0.133020	94.264231	0.085891
0.000776	0.468683	14.153573	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.103312	-93.371897	-0.188461
-4.86E-05	-0.479941	-65.751888	
0.25000	-0.103312	-70.753935	-0.188461
-4.86E-05	-0.247186	-26.459293	
0.50000	-0.103312	-49.102613	-0.188461
-4.86E-05	-0.046136	-26.031937	
0.75000	-0.103312	-26.038663	-0.188461
-4.86E-05	-0.127245	-26.181299	
1.00000	-0.103312	-8.644334	-0.188461
-4.86E-05	-0.225449	-65.981487	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216448	8.415079	0.133628
0.001255	0.321004	16.500596	
0.25000	0.216448	24.290654	0.133628
0.001255	0.155806	56.293153	
0.50000	0.216448	45.174171	0.133628
0.001255	0.085144	71.301850	
0.75000	0.216448	64.709350	0.133628
0.001255	0.311075	52.412004	
1.00000	0.216448	85.390407	0.133628
0.001255	0.595572	13.492585	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.184041	-84.437146	-0.238827
-4.39E-05	-0.600378	-61.215418	
0.25000	-0.184041	-63.996864	-0.238827
-4.39E-05	-0.305425	-25.735282	
0.50000	-0.184041	-44.430152	-0.238827
-4.39E-05	-0.047970	-25.378401	
0.75000	-0.184041	-23.586822	-0.238827
-4.39E-05	-0.184221	-25.524681	
1.00000	-0.184041	-7.867237	-0.238827
-4.39E-05	-0.342193	-61.540833	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4794

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.238129	6.291183	0.180557
0.001051	0.438525	15.869209	
0.25000	0.238129	16.707941	0.180557
0.001051	0.215352	41.261684	
0.50000	0.238129	30.410660	0.180557
0.001051	0.046010	50.585878	
0.75000	0.238129	43.228667	0.180557
0.001051	0.344796	37.832633	
1.00000	0.238129	56.798543	0.180557
0.001051	0.668435	12.126069	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.213543	-55.622175	-0.267665
-0.000756	-0.664948	-43.076560	
0.25000	-0.213543	-42.210285	-0.267665
-0.000756	-0.334369	-19.950326	
0.50000	-0.213543	-29.371587	-0.267665
-0.000756	-0.041180	-19.870216	
0.75000	-0.213543	-15.695237	-0.267665
-0.000756	-0.237205	-20.120322	
1.00000	-0.213543	-5.380831	-0.267665
-0.000756	-0.455637	-43.906844	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.098746	0.694940	0.117821
8.26E-06	0.291401	4.859489	
0.25000	0.098746	0.719137	0.117821
8.26E-06	0.145791	4.254538	
0.50000	0.098746	0.750966	0.117821
8.26E-06	0.011952	3.708162	
0.75000	0.098746	0.780741	0.117821
8.26E-06	0.137871	3.297748	
1.00000	0.098746	0.812262	0.117821
8.26E-06	0.273165	3.004970	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.096990	-0.226759	-0.110549
-0.001170	-0.273299	-2.936545	
0.25000	-0.096990	-0.195604	-0.110549
-0.001170	-0.136685	-3.060574	
0.50000	-0.096990	-0.165782	-0.110549
-0.001170	-0.009243	-3.238143	
0.75000	-0.096990	-0.134013	-0.110549
-0.001170	-0.145516	-3.416478	
1.00000	-0.096990	-0.110564	-0.110549
-0.001170	-0.291045	-3.649483	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.186811	11.045309	0.165382
9.15E-05	0.408983	19.839392	
0.25000	0.186811	32.435355	0.165382
9.15E-05	0.204606	73.836309	
0.50000	0.186811	60.572878	0.165382
9.15E-05	0.061952	94.440470	
0.75000	0.186811	86.893110	0.165382
9.15E-05	0.266510	69.183835	
1.00000	0.186811	114.758448	0.165382
9.15E-05	0.502473	16.929027	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.150013	-113.681254	-0.202486
-0.001414	-0.519083	-79.397506	
0.25000	-0.150013	-86.140925	-0.202486
-0.001414	-0.269282	-31.597253	
0.50000	-0.150013	-59.777607	-0.202486
-0.001414	-0.053788	-31.120639	
0.75000	-0.150013	-31.694230	-0.202486
-0.001414	-0.219669	-31.321825	
1.00000	-0.150013	-10.514359	-0.202486
-0.001414	-0.414348	-79.851758	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4795

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.201989	8.271007	0.181175
0.000515	0.438533	18.723096	
0.25000	0.201989	22.948837	0.181175
0.000515	0.214600	55.075478	
0.50000	0.201989	42.256780	0.181175
0.000515	0.055651	68.649079	
0.75000	0.201989	60.318111	0.181175
0.000515	0.332832	50.970484	
1.00000	0.201989	79.439269	0.181175
0.000515	0.640622	14.928584	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.147107	-78.121124	-0.257073
-0.001224	-0.644560	-57.561448	
0.25000	-0.147107	-59.222976	-0.257073
-0.001224	-0.327072	-24.909547	
0.50000	-0.147107	-41.132491	-0.257073
-0.001224	-0.047005	-24.730999	
0.75000	-0.147107	-21.861703	-0.257073
-0.001224	-0.242209	-25.017559	
1.00000	-0.147107	-7.328094	-0.257073
-0.001224	-0.459480	-58.467286	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.231255	7.086919	0.194247
0.000909	0.472546	17.111015	
0.25000	0.231255	19.227705	0.194247
0.000909	0.232450	46.910091	
0.50000	0.231255	35.198296	0.194247
0.000909	0.050386	57.914307	
0.75000	0.231255	50.137750	0.194247
0.000909	0.353351	43.124810	
1.00000	0.231255	65.953511	0.194247
0.000909	0.683323	13.209052	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.208476	-64.678389	-0.273705
-0.001020	-0.681636	-49.202617	
0.25000	-0.208476	-49.046761	-0.273705
-0.001020	-0.343603	-22.231816	
0.50000	-0.208476	-34.083192	-0.273705
-0.001020	-0.044287	-22.121404	
0.75000	-0.208476	-18.143334	-0.273705
-0.001020	-0.255075	-22.395749	
1.00000	-0.208476	-6.121840	-0.273705
-0.001020	-0.489645	-50.101209	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.319404	0.350572	0.129972
0.000718	0.313140	1.995003	
0.25000	0.319404	0.359004	0.129972
0.000718	0.152434	1.665362	
0.50000	0.319404	0.378474	0.129972
0.000718	0.004865	1.375819	
0.75000	0.319404	0.399633	0.129972
0.000718	0.194394	1.138716	
1.00000	0.319404	0.418133	0.129972
0.000718	0.385210	0.932503	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.208582	-0.184427	-0.154255
-2.88E-07	-0.376786	-3.009404	
0.25000	-0.208582	-0.165839	-0.154255
-2.88E-07	-0.185922	-2.891263	
0.50000	-0.208582	-0.144662	-0.154255
-2.88E-07	-0.010080	-2.854144	
0.75000	-0.208582	-0.125246	-0.154255
-2.88E-07	-0.168532	-2.909840	
1.00000	-0.208582	-0.117192	-0.154255
-2.88E-07	-0.329212	-3.041837	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.409249	1.005239	0.221110
0.001268	0.532287	4.355286	
0.25000	0.409249	1.249781	0.221110
0.001268	0.259180	4.320664	
0.50000	0.409249	1.814412	0.221110
0.001268	0.011811	4.096348	
0.75000	0.409249	2.428028	0.221110
0.001268	0.342889	3.269134	
1.00000	0.409249	2.964533	0.221110
0.001268	0.676910	2.269405	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.349667	-2.411955	-0.270478
-1.50E-06	-0.659459	-6.720773	
0.25000	-0.349667	-1.872906	-0.270478
-1.50E-06	-0.325042	-5.797416	
0.50000	-0.349667	-1.258774	-0.270478
-1.50E-06	-0.018610	-5.795803	
0.75000	-0.349667	-0.695714	-0.270478
-1.50E-06	-0.287808	-5.975584	
1.00000	-0.349667	-0.462138	-0.270478
-1.50E-06	-0.561162	-7.098421	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.439331	1.378932	0.269818
0.001378	0.642693	7.020502	
0.25000	0.439331	1.386517	0.269818
0.001378	0.309167	5.801815	
0.50000	0.439331	1.404040	0.269818
0.001378	0.018620	4.839895	
0.75000	0.439331	1.423383	0.269818
0.001378	0.445941	4.294666	
1.00000	0.439331	1.439733	0.269818
0.001378	0.879330	3.996562	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.305888	-0.485148	-0.350628
-7.86E-06	-0.852981	-7.781332	
0.25000	-0.305888	-0.468419	-0.350628
-7.86E-06	-0.419598	-7.682716	
0.50000	-0.305888	-0.449359	-0.350628
-7.86E-06	-0.025323	-7.861121	
0.75000	-0.305888	-0.431885	-0.350628
-7.86E-06	-0.356077	-8.316446	
1.00000	-0.305888	-0.424636	-0.350628
-7.86E-06	-0.689713	-8.967967	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.482456	7.057484	0.329700
0.001144	0.787542	13.294596	
0.25000	0.482456	12.958128	0.329700
0.001144	0.387343	29.310776	
0.50000	0.482456	26.582267	0.329700
0.001144	0.042035	37.951405	
0.75000	0.482456	41.388417	0.329700
0.001144	0.544702	27.097643	
1.00000	0.482456	54.333892	0.329700
0.001144	1.059444	9.374001	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.328956	-52.979464	-0.423480
-0.000423	-1.040010	-39.331497	
0.25000	-0.328956	-39.972569	-0.423480
-0.000423	-0.518729	-19.825123	
0.50000	-0.328956	-25.153996	-0.423480
-0.000423	-0.041754	-19.983642	
0.75000	-0.328956	-11.567741	-0.423480
-0.000423	-0.442658	-20.452579	
1.00000	-0.328956	-5.931720	-0.423480
-0.000423	-0.850371	-41.116822	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.077149	0.585878	0.094295
0.000532	0.224625	2.767553	
0.25000	0.077149	0.594311	0.094295
0.000532	0.108594	2.322238	
0.50000	0.077149	0.613781	0.094295
0.000532	0.008252	1.977414	
0.75000	0.077149	0.634940	0.094295
0.000532	0.164059	1.740338	
1.00000	0.077149	0.653440	0.094295
0.000532	0.322353	1.569807	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.120603	-0.243706	-0.128163
-2.76E-06	-0.311083	-3.002833	
0.25000	-0.120603	-0.225118	-0.128163
-2.76E-06	-0.152687	-2.969054	
0.50000	-0.120603	-0.203941	-0.128163
-2.76E-06	-0.009368	-3.061009	
0.75000	-0.120603	-0.184525	-0.128163
-2.76E-06	-0.125699	-3.271389	
1.00000	-0.120603	-0.176471	-0.128163
-2.76E-06	-0.242278	-3.587013	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.196435	9.319906	0.182754
0.000663	0.430021	13.409164	
0.25000	0.196435	18.300522	0.182754
0.000663	0.215699	39.058639	
0.50000	0.196435	39.036082	0.182754
0.000663	0.047368	53.220719	
0.75000	0.196435	61.570630	0.182754
0.000663	0.345290	37.111557	
1.00000	0.196435	81.273282	0.182754
0.000663	0.656041	10.303629	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.119562	-80.117013	-0.262158
-4.52E-05	-0.649965	-52.592148	
0.25000	-0.119562	-60.320881	-0.262158
-4.52E-05	-0.329358	-22.953876	
0.50000	-0.119562	-37.767426	-0.262158
-4.52E-05	-0.039468	-22.974269	
0.75000	-0.119562	-17.089524	-0.262158
-4.52E-05	-0.260860	-23.240866	
1.00000	-0.119562	-8.511657	-0.262158
-4.52E-05	-0.486606	-54.092898	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.370242	8.713457	0.265619
0.001162	0.630729	13.786768	
0.25000	0.370242	16.841547	0.265619
0.001162	0.312730	36.709244	
0.50000	0.370242	35.608688	0.265619
0.001162	0.047252	49.275685	
0.75000	0.370242	56.004042	0.265619
0.001162	0.464344	34.502214	
1.00000	0.370242	73.836329	0.265619
0.001162	0.893898	10.085493	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.248097	-72.586848	-0.357243
-4.09E-05	-0.880813	-50.310727	
0.25000	-0.248097	-54.669955	-0.357243
-4.09E-05	-0.442164	-23.451551	
0.50000	-0.248097	-34.257489	-0.357243
-4.09E-05	-0.043455	-23.509258	
0.75000	-0.248097	-15.542531	-0.357243
-4.09E-05	-0.366094	-23.803464	
1.00000	-0.248097	-7.778958	-0.357243
-4.09E-05	-0.694300	-51.811962	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.404719	6.267313	0.348279
0.000973	0.833340	13.009300	
0.25000	0.404719	11.168705	0.348279
0.000973	0.408800	25.968906	
0.50000	0.404719	22.485648	0.348279
0.000973	0.040466	32.906397	
0.75000	0.404719	34.784373	0.348279
0.000973	0.565987	23.756304	
1.00000	0.404719	45.537641	0.348279
0.000973	1.103610	8.986140	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.305515	-44.089391	-0.440862
-0.000739	-1.080839	-34.606228	
0.25000	-0.305515	-33.285164	-0.440862
-0.000739	-0.537783	-18.474104	
0.50000	-0.305515	-20.976060	-0.440862
-0.000739	-0.039699	-18.805641	
0.75000	-0.305515	-9.690585	-0.440862
-0.000739	-0.463825	-19.402929	
1.00000	-0.305515	-5.009003	-0.440862
-0.000739	-0.894576	-36.810426	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.147179	0.876854	0.210560
7.31E-06	0.510836	4.089905	
0.25000	0.147179	0.885287	0.210560
7.31E-06	0.250206	3.399046	
0.50000	0.147179	0.904757	0.210560
7.31E-06	0.010913	2.918735	
0.75000	0.147179	0.925916	0.210560
7.31E-06	0.296371	2.600386	
1.00000	0.147179	0.944416	0.210560
7.31E-06	0.586350	2.391830	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.189889	-0.251420	-0.235066
-0.001172	-0.575559	-3.733674	
0.25000	-0.189889	-0.232932	-0.235066
-0.001172	-0.285014	-3.804334	
0.50000	-0.189889	-0.211655	-0.235066
-0.001172	-0.011679	-4.141807	
0.75000	-0.189889	-0.192239	-0.235066
-0.001172	-0.268492	-4.591422	
1.00000	-0.189889	-0.184185	-0.235066
-0.001172	-0.529088	-5.163833	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.299138	12.957856	0.312721
6.95E-05	0.753443	17.339977	
0.25000	0.299138	25.707801	0.312721
6.95E-05	0.382709	53.987825	
0.50000	0.299138	55.146454	0.312721
6.95E-05	0.061367	74.327861	
0.75000	0.299138	87.139165	0.312721
6.95E-05	0.493602	51.587291	
1.00000	0.299138	115.111380	0.312721
6.95E-05	0.942294	13.573910	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.251542	-113.629731	-0.378273
-0.001358	-0.942351	-72.613576	
0.25000	-0.251542	-85.524800	-0.378273
-0.001358	-0.479900	-30.640557	
0.50000	-0.251542	-53.505246	-0.378273
-0.001358	-0.049152	-30.802676	
0.75000	-0.251542	-24.148450	-0.378273
-0.001358	-0.425765	-31.162072	
1.00000	-0.251542	-11.970296	-0.378273
-0.001358	-0.812520	-74.859592	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.300812	10.123316	0.348182
0.000400	0.833066	16.457410	
0.25000	0.300812	19.313902	0.348182
0.000400	0.414031	42.233476	
0.50000	0.300812	40.534264	0.348182
0.000400	0.055633	56.428858	
0.75000	0.300812	63.595677	0.348182
0.000400	0.567363	39.738847	
1.00000	0.300812	83.758982	0.348182
0.000400	1.095302	12.178800	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.237897	-82.081942	-0.438157
-0.001186	-1.081315	-56.063626	
0.25000	-0.237897	-61.822971	-0.438157
-0.001186	-0.543416	-25.833973	
0.50000	-0.237897	-38.742209	-0.438157
-0.001186	-0.047456	-26.145029	
0.75000	-0.237897	-17.580852	-0.438157
-0.001186	-0.470447	-26.770314	
1.00000	-0.237897	-8.802433	-0.438157
-0.001186	-0.900993	-58.752098	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.368877	8.706306	0.371877
0.000815	0.891092	15.283166	
0.25000	0.368877	16.333506	0.371877
0.000815	0.440776	36.374591	
0.50000	0.368877	33.944129	0.371877
0.000815	0.050554	47.899703	
0.75000	0.368877	53.082626	0.371877
0.000815	0.599779	33.890541	
1.00000	0.368877	69.816004	0.371877
0.000815	1.163201	10.918275	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.327770	-68.205800	-0.465014
-0.000988	-1.144214	-48.832121	
0.25000	-0.327770	-51.393029	-0.465014
-0.000988	-0.572446	-23.723912	
0.50000	-0.327770	-32.236474	-0.465014
-0.000988	-0.046063	-24.003434	
0.75000	-0.327770	-14.676819	-0.465014
-0.000988	-0.497935	-24.600197	
1.00000	-0.327770	-7.391674	-0.465014
-0.000988	-0.957830	-51.258791	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257484	11.045309	0.194247
0.001462	0.472546	19.839392	
0.25000	0.257484	32.435355	0.194247
0.001462	0.232450	73.836309	
0.50000	0.257484	60.572878	0.194247
0.001462	0.061952	94.440470	
0.75000	0.257484	86.893710	0.194247
0.001462	0.353351	69.183835	
1.00000	0.257484	114.758448	0.194247
0.001462	0.683323	16.929027	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.253723	-113.681254	-0.273705
-0.001414	-0.681636	-79.397506	
0.25000	-0.253723	-86.140925	-0.273705
-0.001414	-0.343603	-31.597253	
0.50000	-0.253723	-59.777607	-0.273705
-0.001414	-0.053788	-31.120639	
0.75000	-0.253723	-31.694230	-0.273705
-0.001414	-0.255075	-31.321825	
1.00000	-0.253723	-10.514359	-0.273705
-0.001414	-0.489645	-79.851758	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.482456	12.957856	0.371877
0.001378	0.891092	17.310977	
0.25000	0.482456	25.707801	0.371877
0.001378	0.440776	53.987825	
0.50000	0.482456	55.146454	0.371877
0.001378	0.061367	74.327861	
0.75000	0.482456	87.139165	0.371877
0.001378	0.599779	51.587291	
1.00000	0.482456	115.111380	0.371877
0.001378	1.163201	13.573910	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.349667	-113.629731	-0.465014
-0.001358	-1.144214	-72.613576	
0.25000	-0.349667	-85.524800	-0.465014
-0.001358	-0.572446	-30.640557	
0.50000	-0.349667	-53.505246	-0.465014
-0.001358	-0.049152	-30.802676	
0.75000	-0.349667	-24.148450	-0.465014
-0.001358	-0.497935	-31.162072	
1.00000	-0.349667	-11.970296	-0.465014
-0.001358	-0.957830	-74.859592	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.482456	12.957856	0.371877
0.001462	0.891092	19.839392	
0.25000	0.482456	32.435355	0.371877
0.001462	0.440776	73.836309	
0.50000	0.482456	60.572878	0.371877
0.001462	0.061952	94.440470	
0.75000	0.482456	87.139165	0.371877
0.001462	0.599779	69.183835	
1.00000	0.482456	115.111380	0.371877
0.001462	1.163201	16.929027	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.349667	-113.681254	-0.465014
-0.001414	-1.144214	-79.397506	
0.25000	-0.349667	-86.140925	-0.465014
-0.001414	-0.572446	-31.597253	
0.50000	-0.349667	-59.777607	-0.465014
-0.001414	-0.053788	-31.120639	
0.75000	-0.349667	-31.694230	-0.465014
-0.001414	-0.497935	-31.321825	
1.00000	-0.349667	-11.970296	-0.465014
-0.001414	-0.957830	-79.851758	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.482456	12.957856	0.371877
0.001462	0.891092	19.839392	
0.25000	0.482456	32.435355	0.371877
0.001462	0.440776	73.836309	
0.50000	0.482456	60.572878	0.371877
0.001462	0.061952	94.440470	
0.75000	0.482456	87.139165	0.371877
0.001462	0.599779	69.183835	
1.00000	0.482456	115.111380	0.371877
0.001462	1.163201	16.929027	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.349667	-113.681254	-0.465014
-0.001414	-1.144214	-79.397506	
0.25000	-0.349667	-86.140925	-0.465014
-0.001414	-0.572446	-31.597253	
0.50000	-0.349667	-59.777607	-0.465014
-0.001414	-0.053788	-31.120639	
0.75000	-0.349667	-31.694230	-0.465014
-0.001414	-0.497935	-31.321825	
1.00000	-0.349667	-11.970296	-0.465014
-0.001414	-0.957830	-79.851758	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 469 ========== LENGTH = 4.943568

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.131645	0.218530	0.072169
0.000677	0.180264	0.899001	
0.25000	0.131645	0.243691	0.072169
0.000677	0.091070	0.759652	
0.50000	0.131645	0.276165	0.072169
0.000677	0.001955	0.608867	
0.75000	0.131645	0.303529	0.072169
0.000677	0.097083	0.511214	
1.00000	0.131645	0.339457	0.072169
0.000677	0.197716	0.534090	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.134436	-0.254888	-0.081446
-0.000118	-0.204954	-2.440722	
0.25000	-0.134436	-0.224173	-0.081446
-0.000118	-0.104365	-2.255421	
0.50000	-0.134436	-0.193683	-0.081446
-0.000118	-0.005510	-2.118839	
0.75000	-0.134436	-0.161999	-0.081446
-0.000118	-0.087310	-1.985833	
1.00000	-0.134436	-0.139923	-0.081446
-0.000118	-0.176510	-1.915531	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.179785	0.841879	0.119044
0.001245	0.292780	2.610859	
0.25000	0.179785	1.543585	0.119044
0.001245	0.147488	3.638373	
0.50000	0.179785	2.455638	0.119044
0.001245	0.004418	3.706540	
0.75000	0.179785	3.221839	0.119044
0.001245	0.182927	2.820502	
1.00000	0.179785	4.227825	0.119044
0.001245	0.372439	1.452230	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.241506	-3.754024	-0.153907
-3.90E-07	-0.388476	-6.844026	
0.25000	-0.241506	-2.891198	-0.153907
-3.90E-07	-0.198357	-5.192483	
0.50000	-0.241506	-2.037482	-0.153907
-3.90E-07	-0.011659	-4.855790	
0.75000	-0.241506	-1.150335	-0.153907
-3.90E-07	-0.149149	-4.571817	
1.00000	-0.241506	-0.532186	-0.153907
-3.90E-07	-0.296126	-5.996847	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.196423	1.200109	0.155687
0.001517	0.377255	4.633513	
0.25000	0.196423	1.222664	0.155687
0.001517	0.185815	4.434682	
0.50000	0.196423	1.251980	0.155687
0.001517	0.006300	2.413524	
0.75000	0.196423	1.276608	0.155687
0.001517	0.254942	1.810639	
1.00000	0.196423	1.308943	0.155687
0.001517	0.521353	1.606917	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206839	-0.331005	-0.215616
-3.51E-07	-0.544589	-6.460189	
0.25000	-0.206839	-0.303272	-0.215616
-3.51E-07	-0.278205	-6.510520	
0.50000	-0.206839	-0.275831	-0.215616
-3.51E-07	-0.015749	-6.405978	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.206839	-0.247315	-0.215616
-3.51E-07	-0.200130	-6.304070	
1.00000	-0.206839	-0.227446	-0.215616
-3.51E-07	-0.392644	-6.259053	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.226517	5.344637	0.181878
0.001258	0.443981	12.911148	
0.25000	0.226517	18.633180	0.181878
0.001258	0.225134	44.217309	
0.50000	0.226517	35.905196	0.181878
0.001258	0.030613	54.625640	
0.75000	0.226517	50.415115	0.181878
0.001258	0.298326	39.663461	
1.00000	0.226517	69.465917	0.181878
0.001258	0.598494	10.762282	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.220075	-67.859858	-0.253122
-0.000403	-0.653268	-51.971467	
0.25000	-0.220075	-51.519901	-0.253122
-0.000403	-0.340509	-23.596147	
0.50000	-0.220075	-35.352654	-0.253122
-0.000403	-0.037487	-20.066532	
0.75000	-0.220075	-18.552304	-0.253122
-0.000403	-0.235594	-17.507904	
1.00000	-0.220075	-6.846102	-0.253122
-0.000403	-0.457044	-47.289658	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.031120	0.558396	0.053879
0.000624	0.126901	1.964471	
0.25000	0.031120	0.583457	0.053879
0.000624	0.061574	1.417878	
0.50000	0.031120	0.616031	0.053879
0.000624	0.002133	0.935469	
0.75000	0.031120	0.643395	0.053879
0.000624	0.101942	0.600379	
1.00000	0.031120	0.679323	0.053879
0.000624	0.208669	0.560806	

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.099423 -0.193233 -0.086395
-4.29E-06 -0.218514 -2.732217
0.25000 -0.099423 -0.162418 -0.086395
-4.29E-06 -0.111745 2.682169
0.50000 -0.099423 -0.131928 -0.086395
-4.29E-06 -0.006428 -2.679750
0.75000 -0.099423 -0.100244 -0.086395
-4.29E-06 -0.073138 -2.679830
1.00000 -0.099423 -0.078167 -0.086395
-4.29E-06 -0.139762 -2.741174

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.106846 6.395402 0.106731
0.000862 0.250359 14.156226
0.25000 0.106846 24.589616 0.106731
0.000862 0.127822 57.878799
0.50000 0.106846 48.237865 0.106731
0.000862 0.036404 72.812126
0.75000 0.106846 68.104344 0.106731
0.000862 0.212888 52.635454
1.00000 0.106846 94.188123 0.106731
0.000862 0.419548 13.047835

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.097064 -92.595386 -0.181206
-3.90E-07 -0.476823 -66.023522
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4803

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -0.097064 -70.223555 -0.181206
-3.90E-07 -0.252888 -27.274530
0.50000 -0.097064 -48.087920 -0.181206
-3.90E-07 -0.039145 -22.540645
0.75000 -0.097064 -25.085459 -0.181206
-3.90E-07 -0.151296 -19.135127
1.00000 -0.097064 -9.057731 -0.181206
-3.90E-07 -0.278655 -60.007921

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.186258 5.960953 0.150307
0.001316 0.361305 13.518662
0.25000 0.186258 22.403410 0.150307
0.001316 0.183763 52.846454
0.50000 0.186258 43.774782 0.150307
0.001316 0.034322 66.162740
0.75000 0.186258 61.778497 0.150307
0.001316 0.271388 47.911356
1.00000 0.186258 85.300910 0.150307
0.001316 0.540055 12.193144

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.172154 -83.749417 -0.230060
-3.51E-07 -0.597771 -61.592604
0.25000 -0.172154 -63.531569 -0.230060
-3.51E-07 -0.313482 -26.492231
0.50000 -0.172154 -43.527174 -0.230060
-3.51E-07 -0.039939 -22.132127
0.75000 -0.172154 -22.739413 -0.230060
-3.51E-07 -0.201275 -18.973688
1.00000 -0.172154 -8.254851 -0.230060
-3.51E-07 -0.382939 -55.830530

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.207068 4.777736 0.190906
0.001102 0.466699 12.157658
0.25000 0.207068 15.566454 0.190906
0.001102 0.236282 37.102457
0.50000 0.207068 29.589279 0.190906
0.001102 0.026755 45.166906
0.75000 0.207068 41.369609 0.190906
0.001102 0.303098 32.792168
1.00000 0.207068 56.836647 0.190906
0.001102 0.611097 9.144341

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.197884 -55.094822 -0.257551
-0.000701 -0.662525 -43.955552
0.25000 -0.197884 -41.828881 -0.257551
-0.000701 -0.344255 -20.975410
0.50000 -0.197884 -28.702997 -0.257551
-0.000701 -0.034631 -18.165586
0.75000 -0.197884 -15.063109 -0.257551
-0.000701 -0.244596 -16.144454
1.00000 -0.197884 -5.559064 -0.257551
-0.000701 -0.477875 -40.379592

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.089767 0.771875 0.112309
1.16E-05 0.282158 3.027433
0.25000 0.089767 0.796936 0.112309
1.16E-05 0.143354 2.298610
0.50000 0.089767 0.829509 0.112309
1.16E-05 0.004807 1.618422
0.75000 0.089767 0.856874 0.112309
1.16E-05 0.126401 1.067831
1.00000 0.089767 0.892802 0.112309
1.16E-05 0.256894 0.747039
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4804

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.087712 -0.212571 -0.105601
-0.001159 -0.265155 -3.660131
0.25000 -0.087712 -0.181756 -0.105601
-0.001159 -0.136001 -3.692961
0.50000 -0.087712 -0.151266 -0.105601
-0.001159 -0.008535 -3.772654
0.75000 -0.087712 -0.119582 -0.105601
-0.001159 -0.134238 -3.854177
1.00000 -0.087712 -0.097505 -0.105601
-0.001159 -0.273048 -3.996700

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.176066 7.688693 0.163324
0.000125 0.403747 16.932921
0.25000 0.176066 29.842529 0.163324
0.000125 0.211952 70.366728
0.50000 0.176066 58.637367 0.163324
0.000125 0.045275 88.692704
0.75000 0.176066 82.827405 0.163324
0.000125 0.226247 64.163461
1.00000 0.176066 114.587826 0.163324
0.000125 0.444130 15.956466

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.135705 -112.799012 -0.193297
-0.001287 -0.512290 -79.890421
0.25000 -0.135705 -85.558380 -0.193297
-0.001287 -0.273404 -32.778855
0.50000 -0.135705 -58.605347 -0.193297
-0.001287 -0.046330 -27.084469
0.75000 -0.135705 -30.596841 -0.193297
-0.001287 -0.208779 -23.007514
1.00000 -0.135705 -11.080986 -0.193297
-0.001287 -0.405004 -72.843798

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.168711 6.096305 0.194177
0.000592 0.474286 14.946078
0.25000 0.168711 21.298247 0.194177
0.000592 0.241188 50.727769
0.50000 0.168711 41.057239 0.194177
0.000592 0.035175 62.528538
0.75000 0.168711 57.656421 0.194177
0.000592 0.289054 45.116256
1.00000 0.168711 79.450394 0.194177
0.000592 0.579411 11.704240

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.132846 -77.435859 -0.246633
-0.001171 -0.640456 -58.511337
0.25000 -0.132846 -58.743363 -0.246633
-0.001171 -0.335664 -26.573852
0.50000 -0.132846 -40.248216 -0.246633
-0.001171 -0.040611 -22.377268
0.75000 -0.132846 -21.028805 -0.246633
-0.001171 -0.250375 -19.630546
1.00000 -0.132846 -7.637042 -0.246633
-0.001171 -0.486576 -53.879857

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.200534 5.306993 0.203765
0.000967 0.496706 13.242734
0.25000 0.200534 17.881300 0.203765
0.000967 0.253345 42.539714
0.50000 0.200534 34.224976 0.203765
0.000967 0.030249 52.069238
0.75000 0.200534 47.955012 0.203765
0.000967 0.309846 37.647980
1.00000 0.200534 65.981926 0.203765
0.000967 0.623547 7.864296
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4805

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.192753 -64.099721 -0.263526
-0.000976 -0.679745 -50.149117
0.25000 -0.192753 -48.638198 -0.263526
-0.000976 -0.354077 -23.407073
0.50000 -0.192753 -33.339912 -0.263526
-0.000976 -0.037859 -20.173442
0.75000 -0.192753 -17.442551 -0.263526
-0.000976 -0.260869 -17.857866
1.00000 -0.192753 -6.365536 -0.263526
-0.000976 -0.509576 -46.144176

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.292966 0.270299 0.144697
0.000688 0.354970 0.976843
0.25000 0.292966 0.281413 0.144697
0.000688 0.176001 0.975947
0.50000 0.292966 0.301352 0.144697
0.000688 0.002731 0.802391
0.75000 0.292966 0.322556 0.144697
0.000688 0.180373 0.753875
1.00000 0.292966 0.340220 0.144697
0.000688 0.366413 0.775641

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.207347 -0.306593 -0.150325
-0.000121 -0.376355 -3.076213
0.25000 -0.207347 -0.287563 -0.150325
-0.000121 -0.190316 -2.969585
0.50000 -0.207347 -0.266053 -0.150325
-0.000121 -0.010029 -2.925702
0.75000 -0.207347 -0.246770 -0.150325
-0.000121 -0.181334 -2.921973
1.00000 -0.207347 -0.239820 -0.150325
-0.000121 -0.360391 -2.991723

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.364273 0.869920 0.246808
0.001252 0.602855 2.340855
0.25000 0.364273 1.192233 0.246808
0.001252 0.298433 2.646548
0.50000 0.364273 1.770469 0.246808
0.001252 0.005618 2.695844
0.75000 0.364273 2.385382 0.246808
0.001252 0.319583 2.160517
1.00000 0.364273 2.897650 0.246808
0.001252 0.649184 1.611889

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.370442 -2.515577 -0.266762
-2.41E-07 -0.668852 -7.149368
0.25000 -0.370442 -1.963706 -0.266762
-2.41E-07 -0.338959 -6.405038
0.50000 -0.370442 -1.339914 -0.266762
-2.41E-07 -0.020061 -6.455328
0.75000 -0.370442 -0.786102 -0.266762
-2.41E-07 -0.312947 -6.659054
1.00000 -0.370442 -0.579162 -0.266762
-2.41E-07 -0.618056 -7.935214

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.377887 1.405927 0.311587
0.001427 0.755752 4.057796
0.25000 0.377887 1.415930 0.311587
0.001427 0.370907 3.230791
0.50000 0.377887 1.433875 0.311587
0.001427 0.008576 2.593701
0.75000 0.377887 1.452959 0.311587
0.001427 0.412994 2.338850
1.00000 0.377887 1.468857 0.311587
0.001427 0.840860 2.401659
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4806

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.324257 -0.472504 -0.346036
-6.95E-06 -0.868889 -9.015461
0.25000 -0.324257 -0.455377 -0.346036
-6.95E-06 -0.440991 -9.371323
0.50000 -0.324257 -0.436018 -0.346036
-6.95E-06 -0.029536 -9.917190
0.75000 -0.324257 -0.418863 -0.346036
-6.95E-06 -0.398525 -10.642556
1.00000 -0.324257 -0.412409 -0.346036
-6.95E-06 -0.783662 -11.627061

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.440507 5.044665 0.371147
0.001183 0.905771 9.410783
0.25000 0.440507 12.821854 0.371147
0.001183 0.453460 26.276341
0.50000 0.440507 26.774285 0.371147
0.001183 0.029513 34.634321
0.75000 0.440507 41.611724 0.371147
0.001183 0.499243 23.574578
1.00000 0.440507 53.972400 0.371147
0.001183 1.003804 8.515708

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.333170 -52.930236 -0.416161
-0.000392 -1.055237 -41.154587
0.25000 -0.333170 -39.613984 -0.416161
-0.000392 -0.541601 -22.300138
0.50000 -0.333170 -24.562315 -0.416161
-0.000392 -0.048322 -20.529972
0.75000 -0.333170 -11.068854 -0.416161
-0.000392 -0.476922 -19.469369
1.00000 -0.333170 -6.205888 -0.416161
-0.000392 -0.934913 -41.036557

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.053997 0.646421 0.110497
0.000583 0.266391 1.592180
0.25000 0.053997 0.657515 0.110497
0.000583 0.130306 1.229286
0.50000 0.053997 0.677474 0.110497
0.000583 0.003032 0.959527
0.75000 0.053997 0.698678 0.110497
0.000583 0.153098 0.800348
1.00000 0.053997 0.716342 0.110497
0.000583 0.311717 0.763596

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.145467 -0.193033 -0.128359
-2.41E-06 -0.322696 -3.599924
0.25000 -0.145467 -0.174003 -0.128359
-2.41E-06 -0.164121 -3.813411
0.50000 -0.145467 -0.152493 -0.128359
-2.41E-06 -0.011825 -4.120243
0.75000 -0.145467 -0.133210 -0.128359
-2.41E-06 -0.143850 -4.525052
1.00000 -0.145467 -0.126260 -0.128359
-2.41E-06 -0.280248 -5.085283

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.163699 6.285750 0.214942
0.000750 0.521135 10.314616
0.25000 0.163699 18.122415 0.214942
0.000750 0.265744 36.818199
0.50000 0.163699 39.357626 0.214942
0.000750 0.035444 50.170970
0.75000 0.163699 61.939794 0.214942
0.000750 0.313182 33.409401
1.00000 0.163699 80.752399 0.214942
0.000750 0.618321 10.217643
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4807

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.137596 -79.972443 -0.259242
-2.41E-07 -0.666764 -54.121320
0.25000 -0.137596 -59.705473 -0.259242
-2.41E-07 -0.347734 -25.111380
0.50000 -0.137596 -36.797257 -0.259242
-2.41E-07 -0.044122 -21.935084
0.75000 -0.137596 -16.260585 -0.259242
-2.41E-07 -0.287042 -19.712459
1.00000 -0.137596 -8.859286 -0.259242
-2.41E-07 -0.551108 -51.710678

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.319822 5.932486 0.305438
0.001221 0.743647 10.129303
0.25000 0.319822 16.645501 0.305438
0.001221 0.375157 33.979390
0.50000 0.319822 35.864863 0.305438
0.001221 0.034061 45.957617
0.75000 0.319822 56.303315 0.305438
0.001221 0.425037 30.749103
1.00000 0.319822 73.330047 0.305438
0.001221 0.847454 9.770071

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.271876 -72.517334 -0.352777
-2.17E-07 -0.899280 -51.868421
0.25000 -0.271876 -54.174303 -0.352777
-2.17E-07 -0.464322 -25.556913
0.50000 -0.271876 -33.440750 -0.352777
-2.17E-07 -0.048028 -22.654795
0.75000 -0.271876 -14.853616 -0.352777
-2.17E-07 -0.399092 -20.645211
1.00000 -0.271876 -8.154919 -0.352777
-2.17E-07 -0.775074 -49.642864

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.373726 4.647013 0.388000
0.001024 0.947249 9.007880
0.25000 0.373726 11.107165 0.388000
0.001024 0.472913 22.731277
0.50000 0.373726 22.696805 0.388000
0.001024 0.027845 29.445454
0.75000 0.373726 35.021580 0.388000
0.001024 0.519425 20.143215
1.00000 0.373726 45.289022 0.388000
0.001024 1.047556 7.618741

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.304206 -43.968815 -0.433912
-0.000710 -1.099129 -36.831758
0.25000 -0.304206 -32.907619 -0.433912
-0.000710 -0.563400 -21.388066
0.50000 -0.304206 -20.404893 -0.433912
-0.000710 -0.048384 -20.178308
0.75000 -0.304206 -9.196498 -0.433912
-0.000710 -0.496338 -19.601196
1.00000 -0.304206 -5.157057 -0.433912
-0.000710 -0.975253 -37.884871

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.162179 0.914597 0.219358
9.33E-06 0.540236 2.375472
0.25000 0.162179 0.925711 0.219358
9.33E-06 0.268724 1.893800
0.50000 0.162179 0.945650 0.219358
9.33E-06 0.007383 1.516635
0.75000 0.162179 0.966854 0.219358
9.33E-06 0.274066 1.282453
1.00000 0.162179 0.984518 0.219358
9.33E-06 0.557990 1.192582
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4808

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.142593 -0.193818 -0.229684
-0.001205 -0.577464 -5.123230
0.25000 -0.142593 -0.174788 -0.229684
-0.001205 -0.293972 -5.561505
0.50000 -0.142593 -0.153278 -0.229684
-0.001205 -0.019209 -6.117339
0.75000 -0.142593 -0.133995 -0.229684
-0.001205 -0.271883 -6.768867
1.00000 -0.142593 -0.127045 -0.229684
-0.001205 -0.543384 -7.571572

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.316928 8.558969 0.331923
8.57E-05 0.819683 13.544479
0.25000 0.316928 25.363699 0.331923
8.57E-05 0.422803 51.448982
0.50000 0.316928 55.511717 0.331923
8.57E-05 0.051195 70.619737
0.75000 0.316928 87.572035 0.331923
8.57E-05 0.445817 46.938592
1.00000 0.316928 114.280634 0.331923
8.57E-05 0.880086 14.040622

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.197889 -113.517886 -0.369029
-0.001343 -0.949535 -74.839327
0.25000 -0.197889 -84.743704 -0.369029
-0.001343 -0.495316 -33.604872
0.50000 -0.197889 -52.220484 -0.369029
-0.001343 -0.058644 -28.962547
0.75000 -0.197889 -23.064196 -0.369029
-0.001343 -0.426368 -25.596762
1.00000 -0.197889 -12.556436 -0.369029
-0.001343 -0.835277 -70.695515

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.291721 7.034221 0.382883
0.000472 0.937333 12.161683
0.25000 0.291721 19.147630 0.382883
0.000472 0.473675 38.969055
0.50000 0.291721 40.879327 0.382883
0.000472 0.042252 52.392220
0.75000 0.291721 63.989494 0.382883
0.000472 0.516186 35.063616
1.00000 0.291721 83.241921 0.382883
0.000472 1.031938 11.244659

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.202180 -81.890660 -0.429968
-0.001221 -1.097430 -58.734508
0.25000 -0.202180 -61.149847 -0.429968
-0.001221 -0.567382 -29.405209
0.50000 -0.202180 -37.726526 -0.429968
-0.001221 -0.058574 -26.571700
0.75000 -0.202180 -16.689202 -0.429968
-0.001221 -0.492361 -24.752241
1.00000 -0.202180 -9.114858 -0.429968
-0.001221 -0.964576 -58.004550

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.347081 6.142212 0.409352
0.000871 1.001670 10.930748
0.25000 0.347081 16.195041 0.409352
0.000871 0.503809 32.985592
0.50000 0.347081 34.230017 0.409352
0.000871 0.036827 43.966922
0.75000 0.347081 53.408957 0.409352
0.000871 0.549242 29.554073
1.00000 0.347081 69.386422 0.409352
0.000871 1.101974 9.831207
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4809

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.313946 -68.062116 -0.457707
-0.001017 -1.163688 -51.265373
0.25000 -0.313946 -50.849468 -0.457707
-0.001017 -0.599103 -26.928968
0.50000 -0.313946 -31.393614 -0.457707
-0.001017 -0.056113 -24.645043
0.75000 -0.313946 -13.959700 -0.457707
-0.001017 -0.524848 -23.258377
1.00000 -0.313946 -7.666013 -0.457707
-0.001017 -1.029758 -51.082573

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.226517 7.688693 0.203765
0.001517 0.498706 16.932921
0.25000 0.226517 29.842529 0.203765
0.001517 0.253345 70.366728
0.50000 0.226517 58.637367 0.203765
0.001517 0.045275 88.692704
0.75000 0.226517 82.827405 0.203765
0.001517 0.309846 64.163461
1.00000 0.226517 114.587826 0.203765
0.001517 0.623547 15.956466

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.241506 -112.799012 -0.263526
-0.001287 -0.679745 -79.890421
0.25000 -0.241506 -85.558380 -0.263526
-0.001287 -0.354077 -32.778855

```
 0.50000    -0.241506   -58.605347    -0.263526
-0.001287    -0.046330    -27.084469
 0.75000    -0.241506   -30.596841    -0.263526
-0.001287    -0.260869    -23.007514
 1.00000    -0.241506   -11.080986    -0.263526
-0.001287    -0.509576    -72.843798

COMB       DL ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.440507    8.558969    0.409352
 0.001427    1.001670   13.544479
 0.25000    0.440507   25.363699    0.409352
 0.001427    0.503809   51.448982
 0.50000    0.440507   55.511717    0.409352
 0.001427    0.051195   70.619737
 0.75000    0.440507   87.572035    0.409352
 0.001427    0.549242   46.938592
 1.00000    0.440507  114.280634    0.409352
 0.001427    1.101974   14.040622

COMB       DL ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.370442  -113.517086    -0.457707
-0.001343    -1.163688   -74.839327
 0.25000   -0.370442   -84.743704    -0.457707
-0.001343    -0.599103   -33.604872
 0.50000   -0.370442   -52.220484    -0.457707
-0.001343    -0.058644   -28.962547
 0.75000   -0.370442   -23.064196    -0.457707
-0.001343    -0.524848   -25.586762
 1.00000   -0.370442   -12.556436    -0.457707
-0.001343    -1.029758   -70.695515

COMB       CAR ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.440507    8.558969    0.409352
 0.001517    1.001670   16.932921
 0.25000    0.440507   29.842529    0.409352
 0.001517    0.503809   70.366728
 0.50000    0.440507   58.637367    0.409352
 0.001517    0.051195   88.692704
 0.75000    0.440507   87.572035    0.409352
 0.001517    0.549242   64.163461
 1.00000    0.440507  114.587826    0.409352
 0.001517    1.101974   15.956466
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4810

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       CAR ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.370442  -113.517086    -0.457707
-0.001343    -1.163688   -79.890421
 0.25000   -0.370442   -85.558380    -0.457707
-0.001343    -0.599103   -33.604872
 0.50000   -0.370442   -58.605347    -0.457707
-0.001343    -0.058644   -28.962547
 0.75000   -0.370442   -30.596841    -0.457707
-0.001343    -0.524848   -25.586762
 1.00000   -0.370442   -12.556436    -0.457707
-0.001343    -1.029758   -72.843798

COMB     DESIGN ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.440507    8.558969    0.409352
 0.001517    1.001670   16.932921
 0.25000    0.440507   29.842529    0.409352
 0.001517    0.503809   70.366728
 0.50000    0.440507   58.637367    0.409352
 0.001517    0.051195   88.692704
 0.75000    0.440507   87.572035    0.409352
 0.001517    0.549242   64.163461
 1.00000    0.440507  114.587826    0.409352
 0.001517    1.101974   15.956466

COMB     DESIGN ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.370442  -113.517086    -0.457707
-0.001343    -1.163688   -79.890421
 0.25000   -0.370442   -85.558380    -0.457707
-0.001343    -0.599103   -33.604872
 0.50000   -0.370442   -58.605347    -0.457707
-0.001343    -0.058644   -28.962547
 0.75000   -0.370442   -30.596841    -0.457707
-0.001343    -0.524848   -25.586762
 1.00000   -0.370442   -12.556436    -0.457707
-0.001343    -1.029758   -72.843798

ELEM       470 ================= LENGTH
=    3.460116

COMB DB-G1-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.131537    0.282583    0.145154
 0.000622    0.250065    0.543186
 0.25000    0.131537    0.307361    0.145154
 0.000622    0.124488    0.596928
 0.50000    0.131537    0.338121    0.145154
 0.000622    0.001928    0.630088
 0.75000    0.131537    0.363288    0.145154
 0.000622    0.125753    0.632113
 1.00000    0.131537    0.381980    0.145154
 0.000622    0.253719    0.606715

COMB DB-G1-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.132068   -0.252483    -0.147950
-0.000430    -0.258218    -1.933781
 0.25000   -0.132068   -0.233761    -0.147950
-0.000430    -0.130266    -1.809277
 0.50000   -0.132068   -0.208568    -0.147950
-0.000430    -0.177312    -1.722450
 0.75000   -0.132068   -0.177812    -0.147950
-0.000430    -0.127193    -1.636160
 1.00000   -0.132068   -0.153298    -0.147950
-0.000430    -0.252216    -1.588252

COMB DB-G1-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.177666    1.130454    0.260563
 0.001108    0.444102    1.464455
 0.25000    0.177666    1.824237    0.260563
 0.001108    0.218758    2.686051
 0.50000    0.177666    2.685504    0.260563
 0.001108    0.004620    3.161826
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4811

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.75000    0.177666    3.390178    0.260563
 0.001108    0.230683    2.743899
 1.00000    0.177666    3.913558    0.260563
 0.001108    0.467949    1.534477

COMB DB-G1-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.245280   -3.780752    -0.274750
-0.000686    -0.483100    -6.031560
 0.25000   -0.245280   -3.256533    -0.274750
-0.000686    -0.245447    -4.851661
 0.50000   -0.245280   -2.551127    -0.274750
-0.000686    -0.013642    -4.691911
 0.75000   -0.245280   -1.689959    -0.274750
-0.000686    -0.238329    -4.534766
 1.00000   -0.245280   -1.003585    -0.274750
-0.000686    -0.463524    -5.401054

COMB DB-G1-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.169153    1.112579    0.359961
 0.001361    0.608369    1.620266
 0.25000    0.169153    1.134879    0.359961
 0.001361    0.297115    1.469297
 0.50000    0.169153    1.162562    0.359961
 0.001361    0.004787    1.539983
 0.75000    0.169153    1.185213    0.359961
 0.001361    0.319350    1.583027
 1.00000    0.169153    1.202035    0.359961
 0.001361    0.650959    1.601664

COMB DB-G1-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.228292   -0.470436    -0.383358
-0.000555    -0.675516    -6.310199
 0.25000   -0.228292   -0.453586    -0.383358
-0.000555    -0.343914    -6.111204
 0.50000   -0.228292   -0.430912    -0.383358
-0.000555    -0.018984    -5.947926
 0.75000   -0.228292   -0.403232    -0.383358
-0.000555    -0.330724    -5.787881
 1.00000   -0.228292   -0.381170    -0.383358
-0.000555    -0.642101    -5.662676

COMB DB-G1-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.202705   11.386782    0.409089
 0.001359    0.692209   10.796320
 0.25000    0.202705   24.525308    0.409089
 0.001359    0.339351   33.696819
 0.50000    0.202705   40.835551    0.409089
 0.001359    0.027865   41.948846
 0.75000    0.202705   54.180318    0.409089
 0.001359    0.364226   33.404641
 1.00000    0.202705   64.091825    0.409089
 0.001359    0.738473    9.855937

COMB DB-G1-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.232963   -62.874650    -0.441600
-0.000807    -0.796771   -47.325954
 0.25000   -0.232963   -52.947247    -0.441600
-0.000807    -0.414785   -28.066463
 0.50000   -0.232963   -39.588628    -0.441600
-0.000807    -0.053934   -28.052752
 0.75000   -0.232963   -23.280251    -0.441600
-0.000807    -0.389805   -28.042618
 1.00000   -0.232963   -10.282055    -0.441600
-0.000807    -0.742223   -47.374042

COMB DB-G2-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.033720    0.482389    0.141550
 0.000545    0.236118    0.556541
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4812

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.25000    0.033720    0.507167    0.141550
 0.000545    0.113689    0.621960
 0.50000    0.033720    0.537927    0.141550
 0.000545    0.001881    0.658584
 0.75000    0.033720    0.563094    0.141550
 0.000545    0.124437    0.666427
 1.00000    0.033720    0.581786    0.141550
 0.000545    0.255107    0.647724

COMB DB-G2-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.111206   -0.417700    -0.151067
-0.000200    -0.267615    -2.762204
 0.25000   -0.111206   -0.373785    -0.151067
-0.000200    -0.136932    -2.648529
 0.50000   -0.111206   -0.373785    -0.151067
-0.000200    -0.008760    -2.573180
 0.75000   -0.111206   -0.343029    -0.151067
-0.000200    -0.131281    -2.498634
 1.00000   -0.111206   -0.318515    -0.151067
-0.000200    -0.253726    -2.461285

COMB DB-G2-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.079996   14.571813    0.279236
 0.000762    0.462712   13.078101
 0.25000    0.079996   32.560635    0.279236
 0.000762    0.222378   44.833711
 0.50000    0.079996   54.892057    0.279236
 0.000762    0.034428   56.289580
 0.75000    0.079996   73.163250    0.279236
 0.000762    0.275856   44.545367
 1.00000    0.079996   86.733744    0.279236
 0.000762    0.506982   12.246192

COMB DB-G2-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.122644   -85.730523    -0.308356
-0.000110    -0.569901   -60.017453
 0.25000   -0.122644   -72.138266    -0.308356
-0.000110    -0.303159   -33.746390
 0.50000   -0.122644   -53.848106    -0.308356
-0.000110    -0.060197   -33.822292
 0.75000   -0.122644   -31.518339    -0.308356
-0.000110    -0.282253   -33.900331
 1.00000   -0.122644   -13.722557    -0.308356
-0.000110    -0.523800   -60.456010

COMB DB-G2-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.160457   13.337989    0.365680
 0.001168    0.609208   12.226266
 0.25000    0.160457   29.594825    0.365680
 0.001168    0.293980   40.949455
 0.50000    0.160457   49.776156    0.365680
 0.001168    0.032617   51.317306
 0.75000    0.160457   66.288180    0.365680
 0.001168    0.327210   40.719232
 1.00000    0.160457   78.552094    0.365680
 0.001168    0.661753   11.545733

COMB DB-G2-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.194642   -77.582043    -0.397830
-0.000419    -0.723763    -55.854651
 0.25000   -0.194642   -65.298462    -0.397830
-0.000419    -0.379625    -32.035681
 0.50000   -0.194642   -48.769297    -0.397830
-0.000419    -0.059139    -32.027677
 0.75000   -0.194642   -28.590276    -0.397830
-0.000419    -0.358131    -32.023301
 1.00000   -0.194642   -12.507076    -0.397830
-0.000419    -0.674455    -55.948728
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4813

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.178649    9.614526    0.427963
 0.001317    0.722744    9.174254
 0.25000    0.178649   20.281448    0.427963
 0.001317    0.353258   27.613781
 0.50000    0.178649   33.523428    0.427963
 0.001317    0.023737   34.423149
 0.75000    0.178649   44.357793    0.427963
 0.001317    0.369734   27.504925
 1.00000    0.178649   52.404759    0.427963
 0.001317    0.750979    8.398473

COMB DB-G2-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.209666   -51.088793    -0.448864
-0.000967    -0.808036    -40.423305
 0.25000   -0.209666   -43.028921    -0.448864
-0.000967    -0.419753    -24.777636
 0.50000   -0.209666   -32.183310    -0.448864
-0.000967    -0.049906    -24.757919
 0.75000   -0.209666   -18.942846    -0.448864
-0.000967    -0.399907    -24.742053
 1.00000   -0.209666    -8.389854    -0.448864
-0.000967    -0.770107    -40.428789

COMB DB-G3-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.080047    0.720079    0.215527
 0.000495    0.374131    0.749396
 0.25000    0.080047    0.744857    0.215527
 0.000495    0.187703    0.782352
 0.50000    0.080047    0.775617    0.215527
 0.000495    0.002391    0.821896
 0.75000    0.080047    0.800784    0.215527
 0.000495    0.175177    0.844323
 1.00000    0.080047    0.819476    0.215527
 0.000495    0.351292    0.843182

COMB DB-G3-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.077598   -0.170749    -0.203612
-0.001002    -0.353242    -4.026155
 0.25000   -0.077598   -0.152027    -0.203612
-0.001002    -0.177112    -3.981709
 0.50000   -0.077598   -0.126834    -0.203612
-0.001002    -0.011681    -3.974317
 0.75000   -0.077598   -0.096078    -0.203612
-0.001002    -0.185208    -3.967174
 1.00000   -0.077598   -0.071565    -0.203612
-0.001002    -0.371645    -3.998055

COMB DB-G3-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.163863   17.803168    0.339141
 0.000685    0.578737   15.989820
 0.25000    0.163863   39.706906    0.339141
 0.000685    0.286874   54.570930
 0.50000    0.163863   66.898335    0.339141
 0.000685    0.041755   68.392964
 0.75000    0.163863   89.145904    0.339141
 0.000685    0.286991   54.094216
 1.00000    0.163863  105.669755    0.339141
 0.000685    0.570484   14.788207

COMB DB-G3-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.119965  -104.240287    -0.342667
-0.001143    -0.627283    -72.853167
 0.25000   -0.119965   -87.689935    -0.342667
-0.001143    -0.330666    -40.958650
 0.50000   -0.119965   -65.419272    -0.342667
-0.001143    -0.071369    -41.144440
 0.75000   -0.119965   -38.230956    -0.342667
-0.001143    -0.326104    -41.332657
 1.00000   -0.119965   -16.561166    -0.342667
-0.001143    -0.619471    -73.764544
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4814

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.133906   12.893622    0.427665
 0.001036    0.746627   11.739690
 0.25000    0.133906   27.923947    0.427665
 0.001036    0.356700   38.112184
 0.50000    0.133906   46.582681    0.427665
 0.001036    0.030875   47.721219
 0.75000    0.133906   61.848942    0.427665
 0.001036    0.356551   37.246478
 1.00000    0.133906   73.187595    0.427665
 0.001036    0.734951   10.995035

COMB DB-G3-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.145384   -71.568210    -0.437634
-0.001016    -0.787615    -53.914971
 0.25000   -0.145384   -60.211374    -0.437634
-0.001016    -0.409043    -31.984012
 0.50000   -0.145384   -44.929265    -0.437634
-0.001016    -0.060994    -32.065625
 0.75000   -0.145384   -26.272667    -0.437634
-0.001016    -0.401179    -32.149120
 1.00000   -0.145384   -11.402876    -0.437634
-0.001016    -0.771121    -54.357432

COMB DB-G3-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.171157   10.874338    0.454108
 0.001275    0.768732   10.096792
 0.25000    0.171157   23.306691    0.454108
 0.001275    0.376757   31.909423
 0.50000    0.171157   38.740288    0.454108
 0.001275    0.026849   39.871924
 0.75000    0.171157   51.367797    0.454108
 0.001275    0.390394   31.800562
 1.00000    0.171157   60.746578    0.454108
 0.001275    0.787575    9.523514

COMB DB-G3-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.203116   -59.401300    -0.467625
-0.001103    -0.837329    -46.187473
 0.25000   -0.203116   -50.007478    -0.467625
-0.001103    -0.432812    -27.977090
 0.50000   -0.203116   -37.366861    -0.467625
-0.001103    -0.055500    -27.976606
 0.75000   -0.203116   -21.935031    -0.467625
-0.001103    -0.423762    -27.979354
 1.00000   -0.203116    -9.635464    -0.467625
-0.001103    -0.816578    -46.283623

COMB DL-G1-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.297850    0.348547    0.316349
 0.000630    0.541507    0.799953
 0.25000    0.297850    0.349336    0.316349
 0.000630    0.267891    0.764978
 0.50000    0.297850    0.367575    0.316349
 0.000630    0.002577    0.750003
 0.75000    0.297850    0.386982    0.316349
 0.000630    0.248671    0.735813
 1.00000    0.297850    0.404233    0.316349
 0.000630    0.498726    0.731115

COMB DL-G1-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.195288   -0.277995    -0.288929
-0.000414    -0.500137    -3.014187
 0.25000   -0.195288   -0.260749    -0.288929
-0.000414    -0.250080    -3.023666
 0.50000   -0.195288   -0.241355    -0.288929
-0.000414    -0.008464    -3.079975
 0.75000   -0.195288   -0.223127    -0.288929
-0.000414    -0.279621    -3.158732
 1.00000   -0.195288   -0.218184    -0.288929
-0.000414    -0.553116    -3.273111
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4815

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.356605    1.033856    0.556741
 0.001077    0.947741    1.646866
 0.25000    0.356605    1.178544    0.556741
 0.001077    0.466381    2.013837
 0.50000    0.356605    1.707478    0.556741
 0.001077    0.004921    2.269719
 0.75000    0.356605    2.270277    0.556741
 0.001077    0.426615    2.017437
 1.00000    0.356605    2.770534    0.556741
 0.001077    0.859873    1.615977

COMB DL-G1-2 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.423756   -2.650826    -0.501133
-0.000625    -0.872960    -7.971568
 0.25000   -0.423756   -2.150719    -0.501133
-0.000625    -0.439450    -7.433152
 0.50000   -0.423756   -1.588279    -0.501133
-0.000625    -0.022827    -7.500167
 0.75000   -0.423756   -1.059659    -0.501133
-0.000625    -0.499149    -7.605149
 1.00000   -0.423756   -0.916329    -0.501133
-0.000625    -0.980179    -8.277058

COMB DL-G1-3 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.336122    1.263917    0.713112
 0.001293    1.209264    2.432333
 0.25000    0.336122    1.268407    0.713112
 0.001293    0.592572    2.091890
 0.50000    0.336122    1.284822    0.713112
 0.001293    0.005892    1.942930
 0.75000    0.336122    1.302289    0.713112
 0.001293    0.540487    1.956560
 1.00000    0.336122    1.317814    0.713112
 0.001293    1.095122    2.017966

COMB DL-G1-3 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.383439   -0.603084    -0.641089
-0.000524    -1.121946    -11.648839
 0.25000   -0.383439   -0.587563    -0.641089
-0.000524    -0.567308    -11.854302
 0.50000   -0.383439   -0.570186    -0.641089
-0.000524    -0.035563    -12.170003
 0.75000   -0.383439   -0.553703    -0.641089
-0.000524    -0.641905    -12.581903
 1.00000   -0.383439   -0.549254    -0.641089
-0.000524    -1.258170    -13.070541

COMB DL-G1-4 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.421128   10.577361    0.835856
 0.001281    1.415600    8.530276
 0.25000    0.421128   14.068575    0.835856
 0.001281    0.699871   19.131846
 0.50000    0.421128   26.831388    0.835856
 0.001281    0.023897   25.257153
 0.75000    0.421128   40.411338    0.835856
 0.001281    0.644053   18.735703
 1.00000    0.421128   52.482210    0.835856
 0.001281    1.298912    7.706158

COMB DL-G1-4 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.370994   -51.259427    -0.765436
-0.000769    -1.354703    -41.023791
 0.25000   -0.370994   -39.192200    -0.765436
-0.000769    -0.692846    -28.964557
 0.50000   -0.370994   -25.620912    -0.765436
-0.000769    -0.060410    -29.508413
 0.75000   -0.370994   -12.865666    -0.765436
-0.000769    -0.763316    -30.224588
 1.00000   -0.370994    -9.407217    -0.765436
-0.000769    -1.485362    -43.576334
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4816

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.048779    0.477002    0.264700
 0.000469    0.445965    0.769391
 0.25000    0.048779    0.481991    0.264700
 0.000469    0.217053    0.736755
 0.50000    0.048779    0.500231    0.264700
 0.000469    0.002179    0.759105
 0.75000    0.048779    0.519637    0.264700
 0.000469    0.192875    0.774948
 1.00000    0.048779    0.536888    0.264700
 0.000469    0.393404    0.805637

COMB DL-G2-1 ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.225673   -0.397052    -0.231732
-0.000183    -0.408269    -5.093985
 0.25000   -0.225673   -0.379807    -0.231732
-0.000183    -0.207798    -5.097816
```

0.50000 -0.225673 -0.360413 -0.231732
-0.000183 -0.017421 -5.194123
0.75000 -0.225673 -0.342184 -0.231732
-0.000183 -0.241241 -5.302275
1.00000 -0.225673 -0.337242 -0.231732
-0.000183 -0.470084 -5.451965

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.131888	14.636153	0.511510
0.000638	0.855523	10.222866	
0.25000	0.131888	19.949683	0.511510
0.000638	0.419917	26.842018	
0.50000	0.131888	39.374328	0.511510
0.000638	0.030226	36.558332	
0.75000	0.131888	60.042634	0.511510
0.000638	0.384434	26.552883	
1.00000	0.131888	78.414165	0.511510
0.000638	0.773390	9.582733	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.212491	-77.394390	-0.462300
-8.73E-05	-0.835639	-51.684806	
0.25000	-0.212491	-59.028407	-0.462300
-8.73E-05	-0.436208	-33.031102	
0.50000	-0.212491	-38.373286	-0.462300
-8.73E-05	-0.060677	-33.479204	
0.75000	-0.212491	-18.960157	-0.462300
-8.73E-05	-0.484894	-34.071434	
1.00000	-0.212491	-13.696493	-0.462300
-8.73E-05	-0.927207	-53.819408	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.281568	13.453745	0.710361
0.001056	1.195088	9.790003	
0.25000	0.281568	18.262864	0.710361
0.001056	0.586776	24.835498	
0.50000	0.281568	35.843536	0.710361
0.001056	0.029184	33.647600	
0.75000	0.281568	54.549808	0.710361
0.001056	0.538997	24.601908	
1.00000	0.281568	71.177338	0.710361
0.001056	1.084558	9.252554	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.353635	-70.225579	-0.642081
-0.000379	-1.144811	-49.643456	
0.25000	-0.353635	-53.603071	-0.642081
-0.000379	-0.589767	-32.714113	
0.50000	-0.353635	-34.908732	-0.642081
-0.000379	-0.063916	-33.080769	
0.75000	-0.353635	-17.338482	-0.642081
-0.000379	-0.660084	-33.579413	
1.00000	-0.353635	-12.574496	-0.642081
-0.000379	-1.274480	-51.479383	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4817
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.354689	9.109582	0.869977
0.001199	1.472709	7.615606	
0.25000	0.354689	12.009572	0.869977
0.001199	0.723690	16.322741	
0.50000	0.354689	22.611051	0.869977
0.001199	0.021015	21.387316	
0.75000	0.354689	33.891289	0.869977
0.001199	0.666371	15.953544	
1.00000	0.354689	43.918004	0.869977
0.001199	1.347698	6.803418	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.354328	-42.625253	-0.794700
-0.000935	-1.406407	-37.866873	
0.25000	-0.354328	-32.601565	-0.794700
-0.000935	-0.719163	-27.939103	
0.50000	-0.354328	-21.328523	-0.794700
-0.000935	-0.062461	-28.488097	
0.75000	-0.354328	-10.733329	-0.794700
-0.000935	-0.791042	-29.198951	
1.00000	-0.354328	-7.860555	-0.794700
-0.000935	-1.543663	-40.465236	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.178876	0.773657	0.459982
0.000468	0.786606	1.156983	
0.25000	0.178876	0.778646	0.459982
0.000468	0.384434	0.995207	
0.50000	0.178876	0.796885	0.459982
0.000468	0.002930	0.978827	
0.75000	0.178876	0.816292	0.459982
0.000468	0.363439	1.014138	
1.00000	0.178876	0.833542	0.459982
0.000468	0.735784	1.052875	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.110674	-0.183036	-0.430446
-0.001024	-0.753466	-7.041267	
0.25000	-0.110674	-0.165791	-0.430446
-0.001024	-0.381102	-7.850141	
0.50000	-0.110674	-0.146396	-0.430446
-0.001024	-0.023116	-8.225167	
0.75000	-0.110674	-0.128168	-0.430446
-0.001024	-0.405880	-8.662067	
1.00000	-0.110674	-0.123226	-0.430446
-0.001024	-0.804203	-9.132885	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.343625	20.603184	0.717479
0.000594	1.214499	13.999496	
0.25000	0.343625	28.146901	0.717479
0.000594	0.602970	37.638934	
0.50000	0.343625	55.724424	0.717479
0.000594	0.041846	51.420420	
0.75000	0.343625	85.067597	0.717479
0.000594	0.569086	37.123534	
1.00000	0.343625	111.149996	0.717479
0.000594	1.137798	13.155870	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.157915	-109.653079	-0.675634
-0.001141	-1.213290	-70.625061	
0.25000	-0.157915	-83.578557	-0.675634
-0.001141	-0.629703	-44.269354	
0.50000	-0.157915	-54.254103	-0.675634
-0.001141	-0.076064	-44.988822	
0.75000	-0.157915	-26.692928	-0.675634
-0.001141	-0.665625	-45.900784	
1.00000	-0.157915	-19.220009	-0.675634
-0.001141	-1.286757	-73.980831	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4818
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.285346	15.500234	0.849592
0.000885	1.436576	11.210076	
0.25000	0.285346	20.937996	0.849592
0.000885	0.708352	28.056344	
0.50000	0.285346	40.816794	0.849592
0.000885	0.032719	38.005114	
0.75000	0.285346	61.968332	0.849592
0.000885	0.657936	27.791818	
1.00000	0.285346	80.769394	0.849592
0.000885	1.325581	10.440612	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.216509	-79.138824	-0.784813
-0.001014	-1.399533	-57.941593	
0.25000	-0.216509	-60.343439	-0.784813
-0.001014	-0.721259	-39.189763	
0.50000	-0.216509	-39.205395	-0.784813
-0.001014	-0.076662	-39.931673	
0.75000	-0.216509	-19.338381	-0.784813
-0.001014	-0.780475	-40.985054	
1.00000	-0.216509	-13.951652	-0.784813
-0.001014	-1.515508	-61.577502	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.334893	13.087039	0.915346
0.001120	1.548607	9.813131	
0.25000	0.334893	17.599798	0.915346
0.001120	0.762316	23.779339	
0.50000	0.334893	34.097066	0.915346
0.001120	0.028728	32.036397	
0.75000	0.334893	51.650571	0.915346
0.001120	0.704288	23.571916	
1.00000	0.334893	67.253435	0.915346
0.001120	1.420259	9.203197	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.365929	-65.915295	-0.838431
-0.001072	-1.488149	-51.048477	
0.25000	-0.365929	-50.317144	-0.838431
-0.001072	-0.763429	-35.245453	
0.50000	-0.365929	-32.774837	-0.838431
-0.001072	-0.073874	-36.052035	
0.75000	-0.365929	-16.287348	-0.838431
-0.001072	-0.837152	-36.843822	
1.00000	-0.365929	-11.816941	-0.838431
-0.001072	-1.628992	-53.920831	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.202705	17.803168	0.454108
0.001361	0.768732	15.989820	
0.25000	0.202705	39.706906	0.454108
0.001361	0.376757	54.570930	
0.50000	0.202705	66.898335	0.454108
0.001361	0.041755	68.392964	
0.75000	0.202705	89.145904	0.454108
0.001361	0.390394	54.094216	
1.00000	0.202705	105.689755	0.454108
0.001361	0.787575	14.788207	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.245280	-104.240287	-0.467625
-0.001143	-0.837329	-72.853167	
0.25000	-0.245280	-87.689935	-0.467625
-0.001143	-0.432812	-40.958650	
0.50000	-0.245280	-65.419272	-0.467625
-0.001143	-0.071369	-41.144440	
0.75000	-0.245280	-38.230956	-0.467625
-0.001143	-0.423762	-41.332657	
1.00000	-0.245280	-16.561166	-0.467625
-0.001143	-0.816578	-73.764544	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4819
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.421128	20.603184	0.915346
0.001293	1.548607	13.999496	
0.25000	0.421128	28.146901	0.915346
0.001293	0.762316	37.638934	
0.50000	0.421128	55.724424	0.915346
0.001293	0.041846	51.420420	
0.75000	0.421128	85.067597	0.915346
0.001293	0.704288	37.238534	
1.00000	0.421128	111.149996	0.915346
0.001293	1.420259	13.155870	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.423756	-109.653079	-0.838431
-0.001141	-1.488149	-70.625061	
0.25000	-0.423756	-83.578557	-0.838431
-0.001141	-0.763429	-44.269354	
0.50000	-0.423756	-54.254103	-0.838431
-0.001141	-0.076662	-44.988822	
0.75000	-0.423756	-26.692928	-0.838431
-0.001141	-0.837152	-45.900784	
1.00000	-0.423756	-19.220009	-0.838431
-0.001141	-1.628992	-73.980831	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.421128	20.603184	0.915346
0.001361	1.548607	15.989820	
0.25000	0.421128	39.706906	0.915346
0.001361	0.762316	54.570930	
0.50000	0.421128	66.898335	0.915346
0.001361	0.041846	68.392964	
0.75000	0.421128	89.145904	0.915346
0.001361	0.704288	54.094216	
1.00000	0.421128	111.149996	0.915346
0.001361	1.420259	14.788207	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.423756	-109.653079	-0.838431
-0.001143	-1.488149	-72.853167	
0.25000	-0.423756	-87.689935	-0.838431
-0.001143	-0.763429	-44.269354	
0.50000	-0.423756	-65.419272	-0.838431
-0.001143	-0.076662	-44.988822	
0.75000	-0.423756	-38.230956	-0.838431
-0.001143	-0.837152	-45.900784	
1.00000	-0.423756	-19.220009	-0.838431
-0.001143	-1.628992	-73.980831	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.421128	20.603184	0.915346
0.001361	1.548607	15.989820	
0.25000	0.421128	39.706906	0.915346
0.001361	0.762316	54.570930	
0.50000	0.421128	66.898335	0.915346
0.001361	0.041846	68.392964	
0.75000	0.421128	89.145904	0.915346
0.001361	0.704288	54.094216	
1.00000	0.421128	111.149996	0.915346
0.001361	1.420259	14.788207	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.423756	-109.653079	-0.838431
-0.001143	-1.488149	-72.853167	
0.25000	-0.423756	-87.689935	-0.838431
-0.001143	-0.763429	-44.269354	
0.50000	-0.423756	-65.419272	-0.838431
-0.001143	-0.076662	-44.988822	
0.75000	-0.423756	-38.230956	-0.838431
-0.001143	-0.837152	-45.900784	
1.00000	-0.423756	-19.220009	-0.838431
-0.001143	-1.628992	-73.980831	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4820
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 471 ========== LENGTH = 4.942629

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.129833	0.094708	0.082384
0.000348	0.197419	0.615579	
0.25000	0.129833	0.116810	0.082384
0.000348	0.095648	0.693169	
0.50000	0.129833	0.148512	0.082384
0.000348	0.003744	0.743577	
0.75000	0.129833	0.179018	0.082384
0.000348	0.089046	0.745558	
1.00000	0.129833	0.209771	0.082384
0.000348	0.174523	0.710263	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.121426	-0.343137	-0.069175
-0.000663	-0.170542	-1.613346	
0.25000	-0.121426	-0.307264	-0.069175
-0.000663	-0.086378	-1.337112	
0.50000	-0.121426	-0.279890	-0.069175
-0.000663	-0.006387	-1.407415	
0.75000	-0.121426	-0.241298	-0.069175
-0.000663	-0.108053	-1.486406	
1.00000	-0.121426	-0.222225	-0.069175
-0.000663	-0.209863	-1.613530	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.166126	0.618868	0.159301
0.000530	0.379324	1.545032	
0.25000	0.166126	1.237736	0.159301
0.000530	0.182895	3.107146	
0.50000	0.166126	2.125379	0.159301
0.000530	0.007227	3.904148	
0.75000	0.166126	2.979563	0.159301
0.000530	0.148122	3.331450	
1.00000	0.166126	3.840624	0.159301
0.000530	0.294485	1.653973	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.231524	-4.087268	-0.118842
-0.001170	-0.299478	-5.449334	
0.25000	-0.231524	-3.082811	-0.118842
-0.001170	-0.153236	-3.433437	
0.50000	-0.231524	-2.316355	-0.118842
-0.001170	-0.014887	-3.661391	
0.75000	-0.231524	-1.403779	-0.118842
-0.001170	-0.211385	-3.976887	
1.00000	-0.231524	-0.701720	-0.118842
-0.001170	-0.408232	-5.607679	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.156660	0.208048	0.222489
0.000435	0.528272	1.604623	
0.25000	0.156660	0.227940	0.222489
0.000435	0.253306	1.701554	
0.50000	0.156660	0.256472	0.222489
0.000435	0.006842	1.773970	
0.75000	0.156660	0.283928	0.222489
0.000435	0.196319	1.803171	
1.00000	0.156660	0.311605	0.222489
0.000435	0.397253	2.372088	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.230578	-1.138726	-0.162598
-0.001413	-0.412260	-5.731311	
0.25000	-0.230578	-1.106440	-0.162598
-0.001413	-0.211819	-4.955500	
0.50000	-0.230578	-1.081804	-0.162598
-0.001413	-0.021529	-4.987180	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4821
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.230578	-1.052471	-0.162598
-0.001413	-0.296556	-5.080122	
1.00000	-0.230578	-1.029905	-0.162598
-0.001413	-0.571489	-5.220325	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197047	6.766762	0.254669
0.000719	0.592209	9.857362	
0.25000	0.197047	18.486571	0.254669
0.000719	0.286427	38.733770	
0.50000	0.197047	35.296307	0.254669
0.000719	0.029389	53.132980	
0.75000	0.197047	51.472425	0.254669
0.000719	0.233694	41.767044	
1.00000	0.197047	67.778769	0.254669
0.000719	0.453164	9.885619	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.230663	-69.332247	-0.185510
-0.001350	-0.477106	-47.447501	
0.25000	-0.230663	-50.310343	-0.185510
-0.001350	-0.249756	-16.596190	
0.50000	-0.230663	-35.795585	-0.185510
-0.001350	-0.044422	-19.146410	
0.75000	-0.230663	-18.513674	-0.185510
-0.001350	-0.353790	-22.683324	
1.00000	-0.230663	-5.218437	-0.185510
-0.001350	-0.668484	-51.028668	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.031779	0.188664	0.091308
8.55E-05	0.215921	0.646464	
0.25000	0.031779	0.210766	0.091308
8.55E-05	0.103056	0.756249	
0.50000	0.031779	0.242468	0.091308
8.55E-05	0.002346	0.760419	
0.75000	0.031779	0.272974	0.091308
8.55E-05	0.067862	0.759052	
1.00000	0.031779	0.303726	0.091308
8.55E-05	0.141457	0.719072	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.118207	-0.521983	-0.059553
-0.000554	-0.152905	-2.489552	
0.25000	-0.118207	-0.486109	-0.059553
-0.000554	-0.079318	-2.146715	
0.50000	-0.118207	-0.458736	-0.059553
-0.000554	-0.009560	-2.156461	
0.75000	-0.118207	-0.426144	-0.059553
-0.000554	-0.122550	-2.206360	
1.00000	-0.118207	-0.401070	-0.059553
-0.000554	-0.235383	-2.305489	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.076959	9.028833	0.182621
7.64E-05	0.416157	12.238084	
0.25000	0.076959	25.074741	0.182621
7.64E-05	0.202720	51.761077	
0.50000	0.076959	48.090052	0.182621
7.64E-05	0.034471	71.439575	
0.75000	0.076959	70.237834	0.182621
7.64E-05	0.151693	55.588974	
1.00000	0.076959	92.563918	0.182621
7.64E-05	0.289211	11.369962	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.135947	-94.043038	-0.122138
-0.000771	-0.324694	-60.505859	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4822
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.135947	-67.998904	-0.122138
-0.000771	-0.173764	-18.873098	
0.50000	-0.135947	-48.125798	-0.122138
-0.000771	-0.044989	-22.360784	
0.75000	-0.135947	-24.464001	-0.122138
-0.000771	-0.263388	-27.159728	
1.00000	-0.135947	-6.260622	-0.122138
-0.000771	-0.489066	-65.919821	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.150629	8.222682	0.233741
0.000326	0.540252	11.544320	
0.25000	0.150629	22.724081	0.233741
0.000326	0.262462	47.279797	
0.50000	0.150629	43.523454	0.233741
0.000326	0.033978	65.081417	
0.75000	0.150629	63.538826	0.233741
0.000326	0.203545	50.774897	
1.00000	0.150629	83.715332	0.233741
0.000326	0.390979	10.820686	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.199601	-85.149080	-0.162347
-0.001217	-0.424451	-56.014716	
0.25000	-0.199601	-61.612501	-0.162347
-0.001217	-0.223821	-18.211858	
0.50000	-0.199601	-43.652797	-0.162347
-0.001217	-0.046151	-21.409506	
0.75000	-0.199601	-22.269182	-0.162347
-0.001217	-0.328561	-25.810084	
1.00000	-0.199601	-5.818442	-0.162347
-0.001217	-0.617388	-60.902960	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.179034	5.515001	0.259542
0.000901	0.604467	8.381559	
0.25000	0.179034	15.030093	0.259542
0.000901	0.291510	31.845038	
0.50000	0.179034	28.677601	0.259542
0.000901	0.024628	43.541285	
0.75000	0.179034	41.810687	0.259542
0.000901	0.239855	34.280697	
1.00000	0.179034	55.049501	0.259542
0.000901	0.468768	8.732493	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.208932	-56.665889	-0.192400
-0.001287	-0.491396	-40.504874	
0.25000	-0.208932	-41.222364	-0.192400
-0.001287	-0.253635	-15.214353	
0.50000	-0.208932	-29.438104	-0.192400
-0.001287	-0.042504	-17.234276	
0.75000	-0.208932	-15.407246	-0.192400
-0.001287	-0.359183	-20.091779	
1.00000	-0.208932	-4.613093	-0.192400
-0.001287	-0.679890	-43.090707	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.084398	0.033657	0.106986
0.001048	0.262387	0.817888	
0.25000	0.084398	0.055760	0.106986
0.001048	0.130188	0.878614	
0.50000	0.084398	0.087461	0.106986
0.001048	0.002407	0.917221	
0.75000	0.084398	0.117968	0.106986
0.001048	0.128007	0.922651	
1.00000	0.084398	0.148720	0.106986
0.001048	0.253779	1.217463	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4823
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.069660	-0.829272	-0.101784
-0.000407	-0.249316	-4.029020	
0.25000	-0.069660	-0.793398	-0.101784
-0.000407	-0.123527	-3.467751	

0.50000 -0.069660 -0.766025 -0.101784
-0.000407 -0.012608 -3.375090
0.75000 -0.069660 -0.733433 -0.101784
-0.000407 -0.138363 -3.354718
1.00000 -0.069660 -0.708359 -0.101784
-0.000407 -0.266408 -3.381370

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171892	10.933694	0.187068
0.001165	0.434286	14.758018	
0.25000	0.171892	30.472234	0.187068
0.001165	0.218050	62.844223	
0.50000	0.171892	58.496386	0.187068
0.001165	0.041536	86.791274	
0.75000	0.171892	85.464209	0.187068
0.001165	0.209082	67.616753	
1.00000	0.171892	112.649138	0.187068
0.001165	0.388454	13.812691	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.108056	-114.552241	-0.158348
-0.000580	-0.406649	-73.812893	
0.25000	-0.108056	-82.840100	-0.158348
-0.000580	-0.210977	-23.062494	
0.50000	-0.108056	-58.641993	-0.158348
-0.000580	-0.052479	-27.222084	
0.75000	-0.108056	-29.830660	-0.158348
-0.000580	-0.272601	-32.994344	
1.00000	-0.108056	-7.665663	-0.158348
-0.000580	-0.501470	-80.117601	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139492	7.494375	0.245058
0.001062	0.575857	10.961302	
0.25000	0.139492	20.901704	0.245058
0.001062	0.283265	43.993024	
0.50000	0.139492	40.131851	0.245058
0.001062	0.030556	60.443997	
0.75000	0.139492	58.637147	0.245058
0.001062	0.244549	47.208873	
1.00000	0.139492	77.291421	0.245058
0.001062	0.474158	10.833705	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.151626	-79.310094	-0.194863
-0.000959	-0.497520	-54.427053	
0.25000	-0.151626	-57.549252	-0.194863
-0.000959	-0.256672	-19.142371	
0.50000	-0.151626	-40.944532	-0.194863
-0.000959	-0.049244	-21.938075	
0.75000	-0.151626	-21.174222	-0.194863
-0.000959	-0.344638	-25.892670	
1.00000	-0.151626	-5.964621	-0.194863
-0.000959	-0.645873	-58.221498	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.171143	6.316910	0.265484
0.001080	0.625814	9.498812	
0.25000	0.171143	17.406800	0.265484
0.001080	0.306186	36.835453	
0.50000	0.171143	33.313043	0.265484
0.001080	0.027514	50.457336	
0.75000	0.171143	48.619722	0.265484
0.001080	0.255801	39.524418	
1.00000	0.171143	64.049630	0.265484
0.001080	0.498738	9.469018	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4824
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.202677	-65.788210	-0.204926
-0.001224	-0.522620	-46.360310	
0.25000	-0.202677	-47.788700	-0.204926
-0.001224	-0.269385	-17.004811	
0.50000	-0.202677	-34.854084	-0.204926
-0.001224	-0.046359	-19.348701	
0.75000	-0.202677	-17.701046	-0.204926
-0.001224	-0.368392	-22.673638	
1.00000	-0.202677	-5.120404	-0.204926
-0.001224	-0.695151	-49.471019	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.288058	0.120275	0.175751
0.000306	0.423601	0.752252	
0.25000	0.288058	0.127186	0.175751
0.000306	0.258772	0.811072	
0.50000	0.288058	0.146473	0.175751
0.000306	0.004976	0.873215	
0.75000	0.288058	0.167994	0.175751
0.000306	0.183367	0.922128	
1.00000	0.288058	0.187033	0.175751
0.000306	0.364092	0.989405	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185014	-0.370989	-0.145992
-0.000704	-0.357530	-3.299282	
0.25000	-0.185014	-0.353317	-0.145992
-0.000704	-0.177559	-3.096819	
0.50000	-0.185014	-0.332102	-0.145992
-0.000704	-0.011421	-2.938002	
0.75000	-0.185014	-0.312151	-0.145992
-0.000704	-0.227937	-2.798191	
1.00000	-0.185014	-0.301065	-0.145992
-0.000704	-0.445118	-2.713802	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.344015	0.541805	0.324699
0.000461	0.779038	1.646631	
0.25000	0.344016	0.742215	0.324699
0.000461	0.378237	2.307219	
0.50000	0.344016	1.301550	0.324699
0.000461	0.008492	2.817376	
0.75000	0.344016	1.925649	0.324699
0.000461	0.292126	2.533626	
1.00000	0.344016	2.477791	0.324699
0.000461	0.584242	1.988338	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.404142	-2.806703	-0.236355
-0.001204	-0.584939	-8.322760	
0.25000	-0.404142	-2.294206	-0.236355
-0.001204	-0.293192	-7.110096	
0.50000	-0.404142	-1.678990	-0.236355
-0.001204	-0.027709	-6.866041	
0.75000	-0.404142	-1.100402	-0.236355
-0.001204	-0.424955	-6.678873	
1.00000	-0.404142	-0.778914	-0.236355
-0.001204	-0.826083	-7.276314	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.333366	0.270958	0.416269
0.000391	0.997003	2.039142	
0.25000	0.333366	0.277178	0.416269
0.000391	0.482503	2.114280	
0.50000	0.333366	0.294537	0.416269
0.000391	0.008756	2.244162	
0.75000	0.333366	0.313905	0.416269
0.000391	0.353040	2.592072	
1.00000	0.333366	0.331041	0.416269
0.000391	0.713816	3.183971	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4825
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.377496	-1.336872	-0.291803
-0.001373	-0.729080	-13.116538	
0.25000	-0.377496	-1.320967	-0.291803
-0.001373	-0.368847	-12.170491	
0.50000	-0.377496	-1.301874	-0.291803
-0.001373	-0.041176	-11.324421	
0.75000	-0.377496	-1.283918	-0.291803
-0.001373	-0.546108	-10.613990	
1.00000	-0.377496	-1.273941	-0.291803
-0.001373	-1.060560	-10.038697	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.413344	6.025521	0.481534
0.000683	1.147007	7.706961	
0.25000	0.413344	10.861265	0.481534
0.000683	0.560548	22.934115	
0.50000	0.413344	24.357651	0.481534
0.000683	0.027278	33.857140	
0.75000	0.413344	39.416723	0.481534
0.000683	0.428576	25.297754	
1.00000	0.413344	52.739514	0.481534
0.000683	0.851354	8.306021	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.360509	-53.893273	-0.346073
-0.001297	-0.871051	-43.601875	
0.25000	-0.360509	-41.527071	-0.346073
-0.001297	-0.444590	-21.946971	
0.50000	-0.360509	-26.682340	-0.346073
-0.001297	-0.060057	-22.843419	
0.75000	-0.360509	-12.721403	-0.346073
-0.001297	-0.640822	-24.402760	
1.00000	-0.360509	-4.964126	-0.346073
-0.001297	-1.235931	-43.033538	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.046259	0.191338	0.163421
6.52E-05	0.389593	0.811110	
0.25000	0.046259	0.198249	0.163421
6.52E-05	0.187813	0.835824	
0.50000	0.046259	0.217536	0.163421
6.52E-05	0.002887	0.872616	
0.75000	0.046259	0.239057	0.163421
6.52E-05	0.113071	0.921628	
1.00000	0.046259	0.256098	0.163421
6.52E-05	0.232062	1.048692	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.217305	-0.572278	-0.096282
-0.000510	-0.243553	-5.470214	
0.25000	-0.217305	-0.554606	-0.096282
-0.000510	-0.124662	-5.103663	
0.50000	-0.217305	-0.533392	-0.096282
-0.000510	-0.019231	-4.791220	
0.75000	-0.217305	-0.513460	-0.096282
-0.000510	-0.216511	-4.520919	
1.00000	-0.217305	-0.502355	-0.096282
-0.000510	-0.418254	-4.355652	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.130887	8.813607	0.306034
6.03E-05	0.719974	9.577355	
0.25000	0.130887	16.173474	0.306034
6.03E-05	0.355155	32.813827	
0.50000	0.130887	36.714598	0.306034
6.03E-05	0.032284	49.332664	
0.75000	0.130887	59.634085	0.306034
6.03E-05	0.241976	35.818286	
1.00000	0.130887	79.911002	0.306034
6.03E-05	0.473368	9.254292	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4826
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.212393	-80.650945	-0.193456
-0.000663	-0.499352	-53.834554	
0.25000	-0.212393	-61.829931	-0.193456
-0.000663	-0.261015	-21.840102	
0.50000	-0.212393	-39.236664	-0.193456
-0.000663	-0.055099	-24.090763	
0.75000	-0.212393	-17.988506	-0.193456
-0.000663	-0.419410	-27.202602	
1.00000	-0.212393	-6.182147	-0.193456
-0.000663	-0.797534	-56.190660	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.270721	8.070700	0.420438
0.000274	0.996592	9.262548	
0.25000	0.270721	14.731898	0.420438
0.000274	0.488983	30.321677	
0.50000	0.270721	33.323062	0.420438
0.000274	0.032838	45.356407	
0.75000	0.270721	54.066812	0.420438
0.000274	0.352209	33.091315	
1.00000	0.270721	72.418849	0.420438
0.000274	0.693468	9.087907	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.342234	-73.207598	-0.281868
-0.001143	-0.715840	-51.514501	
0.25000	-0.342234	-56.173255	-0.281868
-0.001143	-0.368065	-22.446746	
0.50000	-0.342234	-35.724757	-0.281868
-0.001143	-0.061282	-24.375969	
0.75000	-0.342234	-16.493678	-0.281868
-0.001143	-0.566684	-27.115920	
1.00000	-0.342234	-5.808091	-0.281868
-0.001143	-1.086192	-53.333160	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.345221	5.012607	0.500208
0.000894	1.192018	6.788329	
0.25000	0.345221	9.029436	0.500208
0.000894	0.580863	19.457727	
0.50000	0.345221	20.240261	0.500208
0.000894	0.023453	28.590962	
0.75000	0.345221	32.749136	0.500208
0.000894	0.435322	21.578577	
1.00000	0.345221	43.815763	0.500208
0.000894	0.869841	7.667913	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.339346	-45.142790	-0.354961
-0.001189	-0.889638	-40.497503	
0.25000	-0.339346	-34.870757	-0.354961
-0.001189	-0.456111	-22.153290	
0.50000	-0.339346	-22.539925	-0.354961
-0.001189	-0.062094	-22.579974	
0.75000	-0.339346	-10.943219	-0.354961
-0.001189	-0.664095	-23.626536	
1.00000	-0.339346	-7.499607	-0.354961
-0.001189	-1.282436	-38.912047	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.176537	0.039628	0.247312
0.001123	0.597716	1.007645	
0.25000	0.176537	0.046539	0.247312
0.001123	0.291715	1.045190	
0.50000	0.176537	0.065826	0.247312
0.001123	0.003063	1.098488	
0.75000	0.176537	0.087357	0.247312
0.001123	0.240854	1.240452	
1.00000	0.176537	0.106386	0.247312
0.001123	0.486595	1.631228	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4827
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.101137	-0.895227	-0.198764
-0.000354	-0.495780	-9.103263	
0.25000	-0.101137	-0.877554	-0.198764
-0.000354	-0.750052	-8.315102	
0.50000	-0.101137	-0.856340	-0.198764
-0.000354	-0.023610	-7.594655	
0.75000	-0.101137	-0.836389	-0.198764
-0.000354	-0.319353	-6.982902	
1.00000	-0.101137	-0.825303	-0.198764
-0.000354	-0.623922	-6.478906	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335079	12.413177	0.393479
0.001226	0.933521	13.097612	
0.25000	0.335079	22.862115	0.393479
0.001226	0.465857	46.047979	
0.50000	0.335079	52.024725	0.393479
0.001226	0.044306	69.529571	
0.75000	0.335079	84.563940	0.393479
0.001226	0.390209	50.213290	
1.00000	0.335079	113.351450	0.393479
0.001226	0.756560	12.394157	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.143789	-114.278133	-0.305277
-0.000474	-0.775746	-73.945124	
0.25000	-0.143789	-87.557594	-0.305277
-0.000474	-0.399468	-28.584018	
0.50000	-0.143789	-55.481520	-0.305277
-0.000474	-0.065428	-31.845512	
0.75000	-0.143789	-25.315121	-0.305277
-0.000474	-0.553525	-36.310420	
1.00000	-0.143789	-8.553416	-0.305277
-0.000474	-1.019198	-77.483545	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.281595	8.949964	0.478153
0.001114	1.138375	10.387219	
0.25000	0.281595	16.481906	0.478153
0.001114	0.560650	34.196454	
0.50000	0.281595	37.503288	0.478153
0.001114	0.045387	51.197689	
0.75000	0.281595	60.958639	0.478153
0.001114	0.429554	37.426924	
1.00000	0.281595	81.709636	0.478153
0.001114	0.850301	10.574180	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.209870	-83.113727	-0.346784
-0.000790	-0.880640	-61.554852	
0.25000	-0.209870	-63.852671	-0.346784
-0.000790	-0.452828	-28.220220	
0.50000	-0.209870	-40.731168	-0.346784
-0.000790	-0.070608	-29.945549	
0.75000	-0.209870	-18.986222	-0.346784
-0.000790	-0.641263	-32.633612	
1.00000	-0.209870	-6.903827	-0.346784
-0.000790	-1.231744	-61.851487	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.325982	7.558423	0.523325
0.001091	1.247753	9.169323	
0.25000	0.325982	13.809127	0.523325
0.001091	0.612058	28.332370	
0.50000	0.325982	31.254617	0.523325
0.001091	0.031391	43.062881	
0.75000	0.325982	50.720040	0.523325
0.001091	0.459727	31.666374	
1.00000	0.325982	67.941140	0.523325
0.001091	0.913053	9.433653	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4828
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.350506	-69.207118	-0.372167
-0.001102	-0.940829	-53.926317	
0.25000	-0.350506	-53.222510	-0.372167
-0.001102	-0.481524	-26.122651	
0.50000	-0.350506	-34.034144	-0.372167
-0.001102	-0.070571	-27.474271	
0.75000	-0.350506	-15.988174	-0.372167
-0.001102	-0.698316	-29.652442	
1.00000	-0.350506	-5.961082	-0.372167
-0.001102	-1.344630	-53.830921	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.197047	10.933694	0.265484
0.001165	0.625814	14.758018	
0.25000	0.197047	30.472234	0.265484
0.001165	0.306186	62.844223	
0.50000	0.197047	58.496386	0.265484
0.001165	0.041536	86.791274	
0.75000	0.197047	85.464209	0.265484
0.001165	0.255801	67.616753	
1.00000	0.197047	112.649138	0.265484
0.001165	0.498738	13.812691	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.231524	-114.552241	-0.204926
-0.001413	-0.522620	-73.812893	
0.25000	-0.231524	-82.840100	-0.204926
-0.001413	-0.269385	-23.062494	
0.50000	-0.231524	-58.641993	-0.204926
-0.001413	-0.052479	-27.222084	
0.75000	-0.231524	-29.830660	-0.204926
-0.001413	-0.368392	-32.994344	
1.00000	-0.231524	-7.665663	-0.204926
-0.001413	-0.695151	-80.117601	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.413344	12.413177	0.523325
0.001226	1.247753	13.097612	
0.25000	0.413344	22.862115	0.523325
0.001226	0.612058	46.047979	
0.50000	0.413344	52.024725	0.523325
0.001226	0.044306	69.529571	
0.75000	0.413344	84.563940	0.523325
0.001226	0.459727	50.213290	
1.00000	0.413344	113.351450	0.523325
0.001226	0.913053	12.394157	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.404142	-114.278133	-0.372167
-0.001373	-0.940829	-73.945124	
0.25000	-0.404142	-87.557594	-0.372167
-0.001373	-0.481524	-28.584018	
0.50000	-0.404142	-55.481520	-0.372167
-0.001373	-0.070608	-31.845512	
0.75000	-0.404142	-25.315121	-0.372167
-0.001373	-0.698316	-36.310420	
1.00000	-0.404142	-8.553416	-0.372167
-0.001373	-1.344630	-77.483545	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.413344	12.413177	0.523325
0.001226	1.247753	14.758018	
0.25000	0.413344	30.472234	0.523325
0.001226	0.612058	62.844223	
0.50000	0.413344	58.496386	0.523325
0.001226	0.044306	86.791274	
0.75000	0.413344	85.464209	0.523325
0.001226	0.459727	67.616753	
1.00000	0.413344	113.351450	0.523325
0.001226	0.913053	13.812691	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4829
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.404142	-114.552241	-0.372167
-0.001413	-0.940829	-73.945124	
0.25000	-0.404142	-87.557594	-0.372167
-0.001413	-0.481524	-28.584018	
0.50000	-0.404142	-58.641993	-0.372167
-0.001413	-0.070608	-31.845512	
0.75000	-0.404142	-29.830660	-0.372167
-0.001413	-0.698316	-36.310420	
1.00000	-0.404142	-8.553416	-0.372167
-0.001413	-1.344630	-80.117601	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.413344	12.413177	0.523325
0.001226	1.247753	14.758018	
0.25000	0.413344	30.472234	0.523325
0.001226	0.612058	62.844223	
0.50000	0.413344	58.496386	0.523325
0.001226	0.044306	86.791274	
0.75000	0.413344	85.464209	0.523325
0.001226	0.459727	67.616753	
1.00000	0.413344	113.351450	0.523325
0.001226	0.913053	13.812691	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.404142	-114.552241	-0.372167
-0.001413	-0.940829	-73.945124	
0.25000	-0.404142	-87.557594	-0.372167
-0.001413	-0.481524	-28.584018	
0.50000	-0.404142	-58.641993	-0.372167
-0.001413	-0.070608	-31.845512	
0.75000	-0.404142	-29.830660	-0.372167
-0.001413	-0.698316	-36.310420	
1.00000	-0.404142	-8.553416	-0.372167
-0.001413	-1.344630	-80.117601	

ELEM 472 ========== LENGTH = 4.943618

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.127032	0.140938	0.091332
4.95E-07	0.225934	0.720823	
0.25000	0.127032	0.164881	0.091332
4.95E-07	0.113153	0.787402	
0.50000	0.127032	0.196658	0.091332
4.95E-07	0.002531	0.830776	
0.75000	0.127032	0.226490	0.091332
4.95E-07	0.094171	0.929653	
1.00000	0.127032	0.257638	0.091332
4.95E-07	0.187103	1.158639	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.100785	-0.410922	-0.075197
-0.000760	-0.184654	-1.596824	
0.25000	-0.100785	-0.379380	-0.075197
-0.000760	-0.091785	-1.676096	
0.50000	-0.100785	-0.349602	-0.075197
-0.000760	-0.007755	-1.811886	
0.75000	-0.100785	-0.317762	-0.075197
-0.000760	-0.112770	-1.950743	
1.00000	-0.100785	-0.293531	-0.075197
-0.000760	-0.225640	-2.144593	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.164315	0.497632	0.178167
2.84E-06	0.440067	1.665545	
0.25000	0.164315	1.168030	0.178167
2.84E-06	0.220706	3.326647	

0.50000	0.164315	2.057788	0.178167
2.84E-06	0.007476	4.240308	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.164315	2.893070	0.178167
2.84E-06	0.151019	4.078039	
1.00000	0.164315	3.765216	0.178167
2.84E-06	0.299468	3.135808	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193705	-4.317979	-0.120581
-0.001353	-0.298118	-5.578640	
0.25000	-0.193705	-3.434799	-0.120581
-0.001353	-0.149310	-4.213394	
0.50000	-0.193705	-2.601038	-0.120581
-0.001353	-0.015293	-4.388194	
0.75000	-0.193705	-1.709519	-0.120581
-0.001353	-0.220935	-4.585177	
1.00000	-0.193705	-1.031039	-0.120581
-0.001353	-0.441103	-6.283141	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.202770	0.208074	0.250124
4.46E-07	0.617336	2.372981	
0.25000	0.202770	0.229623	0.250124
4.46E-07	0.308294	2.692735	
0.50000	0.202770	0.258222	0.250124
4.46E-07	0.011661	3.229145	
0.75000	0.202770	0.285070	0.250124
4.46E-07	0.175211	4.214634	
1.00000	0.202770	0.313104	0.250124
4.46E-07	0.358444	5.516726	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.174723	-1.404402	-0.148201
-0.001591	-0.374215	-5.179442	
0.25000	-0.174723	-1.376014	-0.148201
-0.001591	-0.190966	-5.275320	
0.50000	-0.174723	-1.349215	-0.148201
-0.001591	-0.019825	-5.423217	
0.75000	-0.174723	-1.320559	-0.148201
-0.001591	-0.310406	-5.574731	
1.00000	-0.174723	-1.298751	-0.148201
-0.001591	-0.619492	-5.775028	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.223742	6.416758	0.288914
0.000470	0.702140	9.879426	
0.25000	0.223742	19.112419	0.288914
0.000470	0.359068	41.461621	
0.50000	0.223742	35.962222	0.288914
0.000470	0.03943	56.954368	
0.75000	0.223742	51.780376	0.288914
0.000470	0.208846	45.328964	
1.00000	0.223742	68.296639	0.288914
0.000470	0.410670	13.935811	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181088	-69.776858	-0.172207
-0.001320	-0.447074	-50.989108	
0.25000	-0.181088	-53.051651	-0.172207
-0.001320	-0.234206	-22.004640	
0.50000	-0.181088	-37.262286	-0.172207
-0.001320	-0.046087	-22.150019	
0.75000	-0.181088	-20.379154	-0.172207
-0.001320	-0.373557	-22.647125	
1.00000	-0.181088	-7.530435	-0.172207
-0.001320	-0.730577	-51.553485	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.048868	0.055975	0.103464
4.58E-06	0.255268	0.720104	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.048868	0.079917	0.103464
4.58E-06	0.127471	0.932402	
0.50000	0.048868	0.111694	0.103464
4.58E-06	0.005504	1.271856	
0.75000	0.048868	0.141526	0.103464
4.58E-06	0.052883	1.783305	
1.00000	0.048868	0.172674	0.103464
4.58E-06	0.110508	2.334025	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.086864	-0.696627	-0.046607
-0.000634	-0.209479	-2.090479	
0.25000	-0.086864	-0.665085	-0.046607
-0.000634	-0.062267	-2.253096	
0.50000	-0.086864	-0.635308	-0.046607
-0.000634	-0.007675	-2.271245	
0.75000	-0.086864	-0.603468	-0.046607
-0.000634	-0.128438	-2.290506	
1.00000	-0.086864	-0.572236	-0.046607
-0.000634	-0.256280	-2.364388	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.129703	8.472833	0.209137
6.35E-05	0.501409	11.354937	
0.25000	0.129703	25.855294	0.209137
6.35E-05	0.262041	54.482744	
0.50000	0.129703	48.925463	0.209137
6.35E-05	0.045546	75.390407	
0.75000	0.129703	70.583134	0.209137
6.35E-05	0.112828	58.825456	
1.00000	0.129703	93.196630	0.209137
6.35E-05	0.216555	14.856781	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.095792	-94.514248	-0.096158
-0.000849	-0.267596	-65.898587	
0.25000	-0.095792	-71.614671	-0.096158
-0.000849	-0.148748	-26.083306	
0.50000	-0.095792	-49.996419	-0.096158
-0.000849	-0.047577	-26.149900	
0.75000	-0.095792	-26.880617	-0.096158
-0.000849	-0.279922	-26.694925	
1.00000	-0.095792	-9.288593	-0.096158
-0.000849	-0.538343	-66.136275	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.185388	7.730813	0.265450
5.74E-05	0.642395	10.814400	
0.25000	0.185388	23.439674	0.265450
5.74E-05	0.331591	49.801191	
0.50000	0.185388	44.288624	0.265450
5.74E-05	0.043446	68.700385	
0.75000	0.185388	63.861073	0.265450
5.74E-05	0.172529	53.862089	
1.00000	0.185388	84.297319	0.265450
5.74E-05	0.335969	14.381349	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.148405	-85.653696	-0.143299
-0.001363	-0.380387	-60.870777	
0.25000	-0.148405	-64.958913	-0.143299
-0.001363	-0.203272	-24.977206	
0.50000	-0.148405	-45.422088	-0.143299
-0.001363	-0.049121	-25.126873	
0.75000	-0.148405	-24.531898	-0.143299
-0.001363	-0.347301	-25.708848	
1.00000	-0.148405	-8.633602	-0.143299
-0.001363	-0.675308	-61.442893	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.191360	5.206730	0.295157
0.000780	0.719019	8.720554	
0.25000	0.191360	15.514099	0.295157
0.000780	0.365616	34.498030	
0.50000	0.191360	29.194137	0.295157
0.000780	0.036107	47.339592	
0.75000	0.191360	42.036599	0.295157
0.000780	0.214353	38.300667	
1.00000	0.191360	55.445841	0.295157
0.000780	0.425021	13.294682	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.163281	-57.100656	-0.177682
-0.001141	-0.458583	-43.049385	
0.25000	-0.163281	-43.521776	-0.177682
-0.001141	-0.238940	-19.484997	
0.50000	-0.163281	-30.702688	-0.177682
-0.001141	-0.042082	-19.562805	
0.75000	-0.163281	-16.995591	-0.177682
-0.001141	-0.379065	-19.928310	
1.00000	-0.163281	-6.563957	-0.177682
-0.001141	-0.743764	-43.358969	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.067374	0.038324	0.116754
0.001224	0.286807	1.206703	
0.25000	0.067374	0.062267	0.116754
0.001224	0.142613	1.596581	
0.50000	0.067374	0.094044	0.116754
0.001224	0.007282	2.154996	
0.75000	0.067374	0.123875	0.116754
0.001224	0.126170	2.866349	
1.00000	0.067374	0.156023	0.116754
0.001224	0.253589	3.640935	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.065934	-0.939124	-0.103098
-1.02E-05	-0.256100	-3.361844	
0.25000	-0.065934	-0.907582	-0.103098
-1.02E-05	-0.128659	-3.252485	
0.50000	-0.065934	-0.877805	-0.103098
-1.02E-05	-0.009662	-3.198060	
0.75000	-0.065934	-0.845965	-0.103098
-1.02E-05	-0.146217	-3.144303	
1.00000	-0.065934	-0.821734	-0.103098
-1.02E-05	-0.290460	-3.144123	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.151753	10.357406	0.214158
0.001463	0.509525	13.794504	
0.25000	0.151753	31.522826	0.214158
0.001463	0.268184	66.324477	
0.50000	0.151753	59.613776	0.214158
0.001463	0.054021	91.884523	
0.75000	0.151753	85.984824	0.214158
0.001463	0.190276	71.510888	
1.00000	0.151753	113.519715	0.214158
0.001463	0.360549	17.817414	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.101145	-115.006451	-0.152707
-0.000116	-0.405073	-80.095427	
0.25000	-0.101145	-87.123221	-0.152707
-0.000116	-0.216376	-31.539513	
0.50000	-0.101145	-60.801669	-0.152707
-0.000116	-0.055771	-31.543545	
0.75000	-0.101145	-32.653656	-0.152707
-0.000116	-0.291569	-32.129834	
1.00000	-0.101145	-11.233065	-0.152707
-0.000116	-0.556166	-80.077576	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.170981	7.111075	0.279739
0.001288	0.676471	10.807724	
0.25000	0.170981	21.634767	0.279739
0.001288	0.346780	47.181405	
0.50000	0.170981	40.910751	0.279739
0.001288	0.045226	65.216394	
0.75000	0.170981	59.006541	0.279739
0.001288	0.208226	52.069974	
1.00000	0.170981	77.900958	0.279739
0.001288	0.411049	16.134312	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.113916	-79.768345	-0.174312
-0.000571	-0.458022	-58.185542	
0.25000	-0.113916	-60.634898	-0.174312
-0.000571	-0.242566	-24.852858	
0.50000	-0.113916	-42.572044	-0.174312
-0.000571	-0.048618	-24.842947	
0.75000	-0.113916	-23.257932	-0.174312
-0.000571	-0.365759	-25.232547	
1.00000	-0.113916	-8.559142	-0.174312
-0.000571	-0.711384	-58.121493	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.186819	5.932175	0.301756
0.001073	0.733631	9.452455	
0.25000	0.186819	17.945467	0.301756
0.001073	0.373997	39.540948	
0.50000	0.186819	33.889623	0.301756
0.001073	0.039907	54.482985	
0.75000	0.186819	48.857579	0.301756
0.001073	0.228178	43.832264	
1.00000	0.186819	64.486121	0.301756
0.001073	0.451135	14.440435	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.160446	-66.274156	-0.188831
-0.000986	-0.488445	-49.410268	
0.25000	-0.160446	-50.447899	-0.188831
-0.000986	-0.255054	-21.911945	
0.50000	-0.160446	-35.507186	-0.188831
-0.000986	-0.045552	-21.956683	
0.75000	-0.160446	-19.531492	-0.188831
-0.000986	-0.389445	-22.332274	
1.00000	-0.160446	-7.373628	-0.188831
-0.000986	-0.762264	-49.589882	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.269059	0.177017	0.190031
3.10E-07	0.469960	1.005478	
0.25000	0.269059	0.185059	0.190031
3.10E-07	0.235134	1.121469	
0.50000	0.269059	0.204476	0.190031
3.10E-07	0.003942	1.286254	
0.75000	0.269059	0.225859	0.190031
3.10E-07	0.170506	1.518222	
1.00000	0.269059	0.244252	0.190031
3.10E-07	0.346430	1.836320	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181023	-0.438232	-0.142178
-0.000810	-0.355917	-2.738293	
0.25000	-0.181023	-0.419728	-0.142178
-0.000810	-0.179961	-2.601617	
0.50000	-0.181023	-0.399559	-0.142178
-0.000810	-0.010458	-2.560960	
0.75000	-0.181023	-0.379084	-0.142178
-0.000810	-0.234706	-2.621187	
1.00000	-0.181023	-0.370649	-0.142178
-0.000810	-0.469576	-2.778756	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.349434	0.445255	0.354181
1.66E-06	0.876439	2.006353	
0.25000	0.349434	0.678452	0.354181
1.66E-06	0.439142	2.891072	
0.50000	0.349434	1.241549	0.354181
1.66E-06	0.009296	3.677454	
0.75000	0.349434	1.855854	0.354181
1.66E-06	0.264722	3.891917	
1.00000	0.349434	2.395048	0.354181
1.66E-06	0.538646	3.974283	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.311710	-3.066502	-0.221746
-0.001424	-0.557155	-7.326385	
0.25000	-0.311710	-2.529941	-0.221746
-0.001424	-0.282750	-6.010447	
0.50000	-0.311710	-1.916027	-0.221746
-0.001424	-0.019780	-5.712512	
0.75000	-0.311710	-1.351264	-0.221746
-0.001424	-0.313469	-5.596025	
1.00000	-0.311710	-1.106633	-0.221746
-0.001424	-0.875140	-6.454498	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.389463	0.269335	0.451897
7.60E-06	1.119811	3.193896	
0.25000	0.389463	0.276572	0.451897
7.60E-06	0.561210	3.442292	
0.50000	0.389463	0.294048	0.451897
7.60E-06	0.012772	4.031197	
0.75000	0.389463	0.313113	0.451897
7.60E-06	0.299881	5.046367	
1.00000	0.389463	0.329846	0.451897
7.60E-06	0.619329	6.324677	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.287772	-1.598277	-0.258218
-0.001556	-0.656380	-10.096815	
0.25000	-0.287772	-1.581623	-0.258218
-0.001556	-0.336870	-9.117516	
0.50000	-0.287772	-1.562570	-0.258218
-0.001556	-0.028171	-8.421672	
0.75000	-0.287772	-1.545043	-0.258218
-0.001556	-0.556109	-7.973168	
1.00000	-0.287772	-1.537451	-0.258218
-0.001556	-1.114694	-7.785399	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.428294	5.704391	0.519340
0.000460	1.283636	8.296138	
0.25000	0.428294	11.337070	0.519340
0.000460	0.651322	25.974883	
0.50000	0.428294	24.918401	0.519340
0.000460	0.036928	36.911492	
0.75000	0.428294	39.741166	0.519340
0.000460	0.365301	28.390218	
1.00000	0.428294	52.751555	0.519340
0.000460	0.737490	12.472135	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.292126	-54.521814	-0.309820
-0.001291	-0.798730	-43.079428	
0.25000	-0.292126	-41.573506	-0.309820
-0.001291	-0.415564	-21.977492	
0.50000	-0.292126	-26.760208	-0.309820
-0.001291	-0.046364	-21.215159	
0.75000	-0.292126	-13.132866	-0.309820
-0.001291	-0.648329	-20.744486	
1.00000	-0.292126	-7.230076	-0.309820
-0.001291	-1.289133	-39.866363	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.076886	0.062744	0.179768
2.67E-06	0.445477	1.045250	
0.25000	0.076886	0.070785	0.179768
2.67E-06	0.223487	1.231896	
0.50000	0.076886	0.090202	0.179768
2.67E-06	0.006200	1.546194	
0.75000	0.076886	0.111385	0.179768
2.67E-06	0.090257	1.955977	
1.00000	0.076886	0.129978	0.179768
2.67E-06	0.187652	2.478133	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.116550	-0.757504	-0.078952
-0.000621	-0.202481	-4.381584	
0.25000	-0.116550	-0.739000	-0.078952
-0.000621	-0.104881	-3.854786	
0.50000	-0.116550	-0.717830	-0.078952
-0.000621	-0.010680	-3.481887	
0.75000	-0.116550	-0.698356	-0.078952
-0.000621	-0.221438	-3.196730	
1.00000	-0.116550	-0.688220	-0.078952
-0.000621	-0.443464	-3.052895	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.188488	8.253602	0.331825
5.15E-05	0.817529	9.239720	
0.25000	0.188488	16.817554	0.331825
5.15E-05	0.422325	36.085889	
0.50000	0.188488	37.496789	0.331825
5.15E-05	0.043269	52.343516	
0.75000	0.188488	60.056625	0.331825
5.15E-05	0.186696	38.353839	
1.00000	0.188488	79.858074	0.331825
5.15E-05	0.367121	12.856858	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.122590	-81.458781	-0.159459
-0.000752	-0.429030	-56.226348	
0.25000	-0.122590	-61.751817	-0.159459
-0.000752	-0.232015	-24.946380	
0.50000	-0.122590	-39.206390	-0.159459
-0.000752	-0.043679	-24.985776	
0.75000	-0.122590	-18.465955	-0.159459
-0.000752	-0.423091	-24.031440	
1.00000	-0.122590	-9.482074	-0.159459
-0.000752	-0.831258	-53.288284	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.329429	7.564124	0.456512
4.66E-05	1.126380	9.087662	
0.25000	0.329429	15.315103	0.456512
4.66E-05	0.575536	33.475960	
0.50000	0.329429	34.031267	0.456512
4.66E-05	0.042520	48.327994	
0.75000	0.329429	54.449508	0.456512
4.66E-05	0.291318	35.898093	
1.00000	0.329429	72.371213	0.456512
4.66E-05	0.581121	13.126877	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.233129	-74.044039	-0.246584
-0.001322	-0.644490	-53.380460	
0.25000	-0.233129	-56.207848	-0.246584
-0.001322	-0.339613	-25.001770	
0.50000	-0.233129	-35.802649	-0.246584
-0.001322	-0.047843	-24.480171	
0.75000	-0.233129	-17.031095	-0.246584
-0.001322	-0.575696	-24.198010	
1.00000	-0.233129	-8.900050	-0.246584
-0.001322	-1.138077	-50.762335	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.358709	4.717656	0.538560
0.000789	1.332500	7.645617	
0.25000	0.358709	9.391644	0.538560
0.000789	0.674591	22.412558	
0.50000	0.358709	20.677946	0.538560
0.000789	0.034726	31.680127	
0.75000	0.358709	32.990433	0.538560
0.000789	0.368793	24.906450	
1.00000	0.358709	43.797561	0.538560
0.000789	0.748793	12.046925	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.262060	-45.745752	-0.314581
-0.001108	-0.810054	-38.943450	
0.25000	-0.262060	-34.990191	-0.314581
-0.001108	-0.420090	-21.099982	
0.50000	-0.262060	-22.685468	-0.314581
-0.001108	-0.045026	-20.210101	
0.75000	-0.262060	-11.365865	-0.314581
-0.001108	-0.669531	-19.591537	
1.00000	-0.262060	-6.462690	-0.314581
-0.001108	-1.334253	-35.285375	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.125809	0.041583	0.259607
0.001317	0.644213	1.592889	
0.25000	0.125809	0.049574	0.259607
0.001317	0.323425	1.835241	
0.50000	0.125809	0.069041	0.259607
0.001317	0.008144	2.232360	
0.75000	0.125809	0.090224	0.259607
0.001317	0.214718	2.796326	
1.00000	0.125809	0.108817	0.259607
0.001317	0.440384	3.483185	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.120096	-1.014296	-0.182512
-8.37E-06	-0.461833	-6.463889	
0.25000	-0.120096	-0.995792	-0.182512
-8.37E-06	-0.236143	-5.706885	
0.50000	-0.120096	-0.974623	-0.182512
-8.37E-06	-0.014425	-5.107535	
0.75000	-0.120096	-0.955148	-0.182512
-8.37E-06	-0.317345	-4.619424	
1.00000	-0.120096	-0.946712	-0.182512
-8.37E-06	-0.638552	-4.271771	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.255822	11.713553	0.416600
0.001530	1.025353	12.339460	
0.25000	0.255822	23.871953	0.416600
0.001530	0.531685	50.375899	
0.50000	0.255822	53.230642	0.416600
0.001530	0.057078	73.249322	
0.75000	0.255822	85.259254	0.416600

0.001530 0.336578 53.105179
1.00000 0.255822 113.371733 0.416600
0.001530 0.657536 16.539183

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.163577	-115.265193	-0.278947
-8.03E-05	-0.732892	-77.470760	
0.25000	-0.163577	-87.286855	-0.278947
-8.03E-05	-0.388121	-33.351754	
0.50000	-0.163577	-55.278699	-0.278947
-8.03E-05	-0.055112	-32.749421	
0.75000	-0.163577	-25.833124	-0.278947
-8.03E-05	-0.531702	-32.371398	
1.00000	-0.163577	-13.078544	-0.278947
-8.03E-05	-1.044258	-73.915672	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4837

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.273778	8.448704	0.510213
0.001358	1.260313	10.522120	
0.25000	0.273778	17.212883	0.510213
0.001358	0.645036	38.164199	
0.50000	0.273778	38.375605	0.510213
0.001358	0.049639	55.053463	
0.75000	0.273778	61.462856	0.510213
0.001358	0.357415	41.090994	
1.00000	0.273778	81.727308	0.510213
0.001358	0.715209	15.435218	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.178002	-83.971186	-0.303513
-0.000469	-0.793227	-61.860786	
0.25000	-0.178002	-63.803467	-0.303513
-0.000469	-0.418117	-29.371550	
0.50000	-0.178002	-40.730922	-0.303513
-0.000469	-0.053947	-28.374249	
0.75000	-0.178002	-19.505569	-0.303513
-0.000469	-0.641035	-27.654556	
1.00000	-0.178002	-10.311643	-0.303513
-0.000469	-1.269898	-57.292247	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.328185	7.072546	0.562232
0.001131	1.389688	9.397848	
0.25000	0.328185	14.345874	0.562232
0.001131	0.707455	32.387293	
0.50000	0.328185	31.908661	0.562232
0.001131	0.044462	46.545616	
0.75000	0.328185	51.068634	0.562232
0.001131	0.389734	35.225989	
1.00000	0.328185	67.885921	0.562232
0.001131	0.783461	14.267149	

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.268011	-70.046342	-0.330096
-0.000918	-0.854582	-53.855835	
0.25000	-0.268011	-53.309300	-0.330096
-0.000918	-0.446608	-26.698571	
0.50000	-0.268011	-34.161564	-0.330096
-0.000918	-0.051996	-25.759048	
0.75000	-0.268011	-16.546800	-0.330096
-0.000918	-0.703193	-25.131487	
1.00000	-0.268011	-8.916828	-0.330096
-0.000918	-1.396636	-49.731723	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.223742	10.357406	0.301756
0.001463	0.733631	13.794504	
0.25000	0.223742	31.522826	0.301756
0.001463	0.373997	66.324477	
0.50000	0.223742	59.613776	0.301756
0.001463	0.054021	91.806623	
0.75000	0.223742	85.984824	0.301756
0.001463	0.411888	71.510888	
1.00000	0.223742	113.519715	0.301756
0.001463	0.451135	17.817414	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.193705	-115.006451	-0.188831
-0.001591	-0.488445	-80.095427	
0.25000	-0.193705	-87.123221	-0.188831
-0.001591	-0.255054	-31.539513	
0.50000	-0.193705	-60.800169	-0.188831
-0.001591	-0.055771	-31.543545	
0.75000	-0.193705	-32.653656	-0.188831
-0.001591	-0.389445	-32.129834	
1.00000	-0.193705	-11.233065	-0.188831
-0.001591	-0.762264	-80.077576	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4838

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.428294	11.713553	0.562232
0.001530	1.389688	12.339460	
0.25000	0.428294	23.871953	0.562232
0.001530	0.707455	50.375899	
0.50000	0.428294	53.230642	0.562232
0.001530	0.057078	73.249322	
0.75000	0.428294	85.259254	0.562232
0.001530	0.389734	53.105179	
1.00000	0.428294	113.371733	0.562232
0.001530	0.783461	16.539183	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.311710	-115.265193	-0.330096
-0.001556	-0.854582	-77.470760	
0.25000	-0.311710	-87.286855	-0.330096
-0.001556	-0.446608	-33.351754	
0.50000	-0.311710	-55.278699	-0.330096
-0.001556	-0.055112	-32.749421	
0.75000	-0.311710	-25.833124	-0.330096
-0.001556	-0.703193	-32.371398	
1.00000	-0.311710	-13.078544	-0.330096
-0.001556	-1.396636	-73.915672	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.428294	11.713553	0.562232
0.001530	1.389688	13.794504	
0.25000	0.428294	31.522826	0.562232
0.001530	0.707455	66.324477	
0.50000	0.428294	59.613776	0.562232
0.001530	0.057078	91.806623	
0.75000	0.428294	85.984824	0.562232
0.001530	0.389734	71.510888	
1.00000	0.428294	113.519715	0.562232
0.001530	0.783461	17.817414	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.311710	-115.265193	-0.330096
-0.001591	-0.854582	-80.095427	
0.25000	-0.311710	-87.286855	-0.330096
-0.001591	-0.446608	-33.351754	
0.50000	-0.311710	-60.800169	-0.330096
-0.001591	-0.055771	-32.749421	
0.75000	-0.311710	-32.653656	-0.330096
-0.001591	-1.396636	-80.077576	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4839

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 473 ========== LENGTH = 4.942653

COMB DB-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.129331	0.036622	0.085176
5.56E-07	0.215626	1.127572	
0.25000	0.129331	0.060703	0.085176
5.56E-07	0.110446	1.451681	
0.50000	0.129331	0.092475	0.085176
5.56E-07	0.006866	1.768898	
0.75000	0.129331	0.122249	0.085176
5.56E-07	0.097872	2.059677	
1.00000	0.129331	0.153431	0.085176
5.56E-07	0.194378	2.327777	

COMB DB-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.090202	-0.428716	-0.078108
-0.000758	-0.191703	-2.129837	
0.25000	-0.090202	-0.397472	-0.078108
-0.000758	-0.095181	-2.074853	
0.50000	-0.090202	-0.367704	-0.078108
-0.000758	0.008031	-2.074028	
0.75000	-0.090202	-0.359927	-0.078108
-0.000758	-0.103790	-2.074779	
1.00000	-0.090202	-0.311757	-0.078108
-0.000758	-0.207196	-2.130436	

COMB DB-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.196705	0.419690	0.165781
4.20E-06	0.419247	3.082577	
0.25000	0.196705	1.093960	0.165781
4.20E-06	0.214995	5.144317	
0.50000	0.196705	1.983581	0.165781
4.20E-06	0.015960	6.380255	
0.75000	0.196705	2.817248	0.165781
4.20E-06	0.156477	6.357415	
1.00000	0.196705	3.690349	0.165781
4.20E-06	0.310151	5.396173	

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.177176	-4.289504	-0.124750
-0.001320	-0.306927	-6.258864	
0.25000	-0.177176	-3.414675	-0.124750
-0.001320	-0.152769	-4.698317	
0.50000	-0.177176	-2.581160	-0.124750
-0.001320	-0.015210	-4.652432	
0.75000	-0.177176	-1.691397	-0.124750
-0.001320	-0.196304	-4.636557	
1.00000	-0.177176	-1.014648	-0.124750
-0.001320	-0.400947	-6.131060	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.249276	0.229817	0.234008
5.01E-07	0.590989	5.465795	
0.25000	0.249276	0.251490	0.234008
5.01E-07	0.302063	5.977248	
0.50000	0.249276	0.280085	0.234008
5.01E-07	0.024443	6.729526	
0.75000	0.249276	0.306882	0.234008
5.01E-07	0.157892	7.742763	
1.00000	0.249276	0.334946	0.234008
5.01E-07	0.315460	8.938956	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.147645	-1.316037	-0.130500
-0.001491	-0.329422	-5.743782	
0.25000	-0.147645	-1.287938	-0.130500
-0.001491	-0.168079	-5.599402	
0.50000	-0.147645	-1.261146	-0.130500
-0.001491	-0.019043	-5.503881	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4840

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	-0.147645	-1.232547	-0.130500
-0.001491	-0.277035	-5.410303	
1.00000	-0.147645	-1.210794	-0.130500
-0.001491	-0.565872	-5.366143	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.261946	6.469916	0.273819
0.000498	0.687905	13.902132	
0.25000	0.261946	19.238889	0.273819
0.000498	0.358804	47.217984	
0.50000	0.261946	36.086100	0.273819
0.000498	0.054382	61.321060	
0.75000	0.261946	51.873669	0.273819
0.000498	0.189437	49.555319	
1.00000	0.261946	68.408019	0.273819
0.000498	0.364797	18.016548	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.165348	-69.644427	-0.151724
-0.001237	-0.394757	-51.508676	
0.25000	-0.165348	-53.077357	-0.151724
-0.001237	-0.207195	-22.354524	
0.50000	-0.165348	-37.226561	-0.151724
-0.001237	-0.044068	-21.884456	
0.75000	-0.165348	-20.442772	-0.151724
-0.001237	-0.339417	-21.969016	
1.00000	-0.165348	-7.626832	-0.151724
-0.001237	-0.677436	-50.638213	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.088712	0.108813	0.096473
4.77E-06	0.243539	2.313651	
0.25000	0.088712	0.132894	0.096473
4.77E-06	0.122440	3.526588	
0.50000	0.088712	0.164666	0.096473
4.77E-06	0.010720	2.850849	
0.75000	0.088712	0.194440	0.096473
4.77E-06	0.052881	3.253519	
1.00000	0.088712	0.225622	0.096473
4.77E-06	0.105088	3.708228	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.080753	-0.633851	-0.042262
-0.000577	-0.103759	-2.954130	
0.25000	-0.080753	-0.602607	-0.042262
-0.000577	-0.051535	-2.249873	
0.50000	-0.080753	-0.572839	-0.042262
-0.000577	-0.007143	-2.199710	
0.75000	-0.080753	-0.541062	-0.042262
-0.000577	-0.114411	-2.150594	
1.00000	-0.080753	-0.516892	-0.042262
-0.000577	-0.233492	-2.155386	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.178897	8.607819	0.199581
9.85E-05	0.499002	14.852468	
0.25000	0.178897	26.090656	0.199581
9.85E-05	0.264907	60.045614	
0.50000	0.178897	49.157276	0.199581
9.85E-05	0.056355	78.788740	
0.75000	0.178897	70.773071	0.199581
9.85E-05	0.083703	61.896150	
1.00000	0.178897	93.411332	0.199581
9.85E-05	0.149006	17.745653	

COMB DB-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.076114	-94.361492	-0.066298
-0.000744	-0.191879	-66.099730	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4841

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	-0.076114	-71.678432	-0.066298
-0.000744	-0.109883	-26.262959	
0.50000	-0.076114	-50.066571	-0.066298
-0.000744	-0.045322	-25.699441	
0.75000	-0.076114	-26.996285	-0.066298
-0.000744	-0.257331	-25.894177	
1.00000	-0.076114	-9.449142	-0.066298
-0.000744	-0.503729	-65.224857	

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.234731	7.786242	0.251294
8.90E-05	0.630515	14.351267	
0.25000	0.234731	23.585814	0.251294
8.90E-05	0.331365	55.433495	
0.50000	0.234731	44.431558	0.251294
8.90E-05	0.056277	72.610448	
0.75000	0.234731	63.966162	0.251294
8.90E-05	0.149191	57.597561	
1.00000	0.234731	84.424789	0.251294
8.90E-05	0.280124	17.958608	

COMB DB-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.123001	-85.518162	-0.118328
-0.001259	-0.316827	-61.399191	
0.25000	-0.123001	-65.019050	-0.118328
-0.001259	-0.170532	-25.391276	
0.50000	-0.123001	-45.488000	-0.118328
-0.001259	-0.047174	-24.875352	
0.75000	-0.123001	-24.638944	-0.118328
-0.001259	-0.316073	-25.045406	
1.00000	-0.123001	-8.781257	-0.118328
-0.001259	-0.626310	-60.583738	

COMB DB-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.229364	5.326114	0.279627
0.000784	0.702909	13.259026	
0.25000	0.229364	15.693803	0.279627
0.000784	0.364971	40.404503	
0.50000	0.229364	29.370937	0.279627
0.000784	0.051586	52.045406	
0.75000	0.229364	42.188567	0.279627
0.000784	0.194046	42.797716	
1.00000	0.229364	55.612494	0.279627
0.000784	0.376915	17.592329	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.160021	-56.942372	-0.156597
-0.001053	-0.404887	-43.318384	
0.25000	-0.160021	-43.491880	-0.156597
-0.001053	-0.211294	-19.585797	
0.50000	-0.160021	-30.676582	-0.156597
-0.001053	-0.039780	-19.141358	
0.75000	-0.160021	-16.996474	-0.156597
-0.001053	-0.343811	-19.147575	
1.00000	-0.160021	-6.594454	-0.156597
-0.001053	-0.688990	-42.360754	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.062736	0.115058	0.111256
0.001167	0.280442	3.616443	
0.25000	0.062736	0.139139	0.111256
0.001167	0.143158	3.927885	
0.50000	0.062736	0.170911	0.111256
0.001167	0.014076	4.374443	
0.75000	0.062736	0.200685	0.111256
0.001167	0.123517	4.972326	
1.00000	0.062736	0.231867	0.111256
0.001167	0.247991	5.645133	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4842

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.099245	-0.869554	-0.100733
-7.73E-06	-0.249913	-3.113557	
0.25000	-0.099245	-0.838310	-0.100733
-7.73E-06	-0.125421	-2.953471	
0.50000	-0.099245	-0.808542	-0.100733
-7.73E-06	-0.008407	-2.825972	
0.75000	-0.099245	-0.776764	-0.100733
-7.73E-06	-0.132337	-2.699517	
1.00000	-0.099245	-0.745995	-0.100733
-7.73E-06	-0.269635	-2.626969	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.148048	10.471805	0.207284
0.001487	0.517195	17.812291	
0.25000	0.148048	31.759446	0.207284
0.001487	0.276309	72.899617	
0.50000	0.148048	59.846075	0.207284
0.001487	0.065947	95.703772	
0.75000	0.148048	86.166340	0.207284
0.001487	0.174212	75.065295	
1.00000	0.148048	113.731179	0.207284
0.001487	0.329046	21.197884	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.135567	-114.856204	-0.137056
-8.57E-05	-0.364616	-80.040370	
0.25000	-0.135567	-87.236611	-0.137056
-8.57E-05	-0.195218	-31.487766	
0.50000	-0.135567	-60.921342	-0.137056
-8.57E-05	-0.052779	-30.755718	
0.75000	-0.135567	-32.830249	-0.137056
-8.57E-05	-0.271181	-30.946646	
1.00000	-0.135567	-11.464307	-0.137056
-8.57E-05	-0.527089	-78.790736	

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.197974	7.307342	0.267503
0.001263	0.670607	16.114459	
0.25000	0.197974	21.914903	0.267503
0.001263	0.350692	54.121263	
0.50000	0.197974	41.187922	0.267503
0.001263	0.060706	70.167456	
0.75000	0.197974	59.248722	0.267503
0.001263	0.179738	56.640398	
1.00000	0.197974	78.163831	0.267503
0.001263	0.344492	20.454660	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.130536	-79.572109	-0.144866
-0.000487	-0.383283	-58.082896	
0.25000	-0.130536	-60.619569	-0.144866
-0.000487	-0.204196	-24.667268	
0.50000	-0.130536	-42.562055	-0.144866
-0.000487	-0.045513	-24.066362	
0.75000	-0.130536	-23.285973	-0.144866
-0.000487	-0.335070	-24.099002	
1.00000	-0.130536	-8.624683	-0.144866
-0.000487	-0.665267	-56.831178	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.225365	6.076444	0.286408
0.001052	0.719525	14.402711	
0.25000	0.225365	18.159107	0.286408
0.001052	0.374458	45.979358	
0.50000	0.225365	34.100811	0.286408
0.001052	0.055947	59.457835	
0.75000	0.225365	49.039826	0.286408
0.001052	0.206336	48.521440	
1.00000	0.225365	64.685484	0.286408
0.001052	0.399943	18.899821	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4843

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.169612	-66.092892	-0.166263
-0.000897	-0.430959	-49.549704	
0.25000	-0.169612	-50.416273	-0.166263
-0.000897	-0.225443	-21.694547	
0.50000	-0.169612	-35.479977	-0.166263
-0.000897	-0.042887	-21.382145	
0.75000	-0.169612	-19.535740	-0.166263
-0.000897	-0.353976	-21.394262	
1.00000	-0.169612	-7.408634	-0.166263
-0.000897	-0.707522	-48.453974	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.273505	0.044625	0.180540
3.27E-07	0.452999	1.819374	
0.25000	0.273505	0.052756	0.180540
3.27E-07	0.229968	2.210627	
0.50000	0.273505	0.072181	0.180540
3.27E-07	0.010157	2.600561	
0.75000	0.273505	0.093336	0.180540
3.27E-07	0.150082	2.970116	
1.00000	0.273505	0.111894	0.180540
3.27E-07	0.305776	3.337924	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.163103	-0.465915	-0.125864
-0.000796	-0.315747	-2.789695	
0.25000	-0.163103	-0.446459	-0.125864
-0.000796	-0.159965	-2.748950	
0.50000	-0.163103	-0.425305	-0.125864
-0.000796	-0.010541	-2.740568	
0.75000	-0.163103	-0.405867	-0.125864
-0.000796	-0.217704	-2.732698	
1.00000	-0.163103	-0.397691	-0.125864
-0.000796	-0.440052	-2.753063	

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.388836	0.347061	0.332723
2.32E-06	0.835841	3.939000	
0.25000	0.388836	0.582961	0.332723
2.32E-06	0.425087	5.282119	
0.50000	0.388836	1.146183	0.332723
2.32E-06	0.021193	6.398670	
0.75000	0.388836	1.759675	0.332723

2.32E-06 0.232234 6.777957
1.00000 0.388836 2.297869 0.332723
2.32E-06 0.473477 6.874597

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267341	-3.033963	-0.195297
-0.001353	-0.491087	-6.477735	
0.25000	-0.267341	-2.495856	-0.195297
-0.001353	-0.249432	-5.568156	
0.50000	-0.267341	-1.882391	-0.195297
-0.001353	-0.018667	-5.517013	
0.75000	-0.267341	-1.318684	-0.195297
-0.001353	-0.398534	-5.468523	
1.00000	-0.267341	-1.081590	-0.195297
-0.001353	-0.809387	-6.233383	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.442415	0.264215	0.418963
7.44E-06	1.056546	6.287391	
0.25000	0.442415	0.271536	0.418963
7.44E-06	0.538897	7.059142	
0.50000	0.442415	0.289015	0.418963
7.44E-06	0.031349	8.079185	
0.75000	0.442415	0.308055	0.418963
7.44E-06	0.244517	9.338330	
1.00000	0.442415	0.324757	0.418963
7.44E-06	0.503723	10.649356	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4844

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.240308	-1.524414	-0.210780
-0.001439	-0.537480	-7.808983	
0.25000	-0.240308	-1.507714	-0.210780
-0.001439	-0.277068	-7.475325	
0.50000	-0.240308	-1.488675	-0.210780
-0.001439	-0.025027	-7.312586	
0.75000	-0.240308	-1.471181	-0.210780
-0.001439	-0.497283	-7.173337	
1.00000	-0.240308	-1.463823	-0.210780
-0.001439	-1.014670	-7.059965	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.452363	5.884310	0.481905
0.000459	1.214395	12.423424	
0.25000	0.452363	11.576423	0.481905
0.000459	0.627528	30.608143	
0.50000	0.452363	25.166570	0.481905
0.000459	0.056033	41.749757	
0.75000	0.452363	39.969708	0.481905
0.000459	0.301737	33.262549	
1.00000	0.452363	52.955960	0.481905
0.000459	0.604170	17.336745	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.258446	-54.402105	-0.254436
-0.001195	-0.659650	-39.866901	
0.25000	-0.258446	-41.417945	-0.254436
-0.001195	-0.345311	-19.579507	
0.50000	-0.258446	-26.615462	-0.254436
-0.001195	-0.041027	-19.299897	
0.75000	-0.258446	-13.013605	-0.254436
-0.001195	-0.581194	-19.109192	
1.00000	-0.258446	-7.292697	-0.254436
-0.001195	-1.174247	-38.539574	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.116829	0.122803	0.165419
2.63E-06	0.417079	2.459923	
0.25000	0.116829	0.130937	0.165419
2.63E-06	0.212966	2.815745	
0.50000	0.116829	0.150359	0.165419
2.63E-06	0.012804	3.244027	
0.75000	0.116829	0.171513	0.165419
2.63E-06	0.075487	3.695484	
1.00000	0.116829	0.190072	0.165419
2.63E-06	0.156193	4.189684	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.090240	-0.680688	-0.065134
-0.000531	-0.165264	-3.064446	
0.25000	-0.090240	-0.662133	-0.065134
-0.000531	-0.084766	-2.898917	
0.50000	-0.090240	-0.640979	-0.065134
-0.000531	-0.009021	-2.826964	
0.75000	-0.090240	-0.621541	-0.065134
-0.000531	-0.196557	-2.758986	
1.00000	-0.090240	-0.613365	-0.065134
-0.000531	-0.400752	-2.719172	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.230566	8.600870	0.304295
7.61E-05	0.768316	12.830002	
0.25000	0.230566	17.264106	0.304295
7.61E-05	0.405432	39.901644	
0.50000	0.230566	37.947332	0.304295
7.61E-05	0.056863	56.018843	
0.75000	0.230566	60.477895	0.304295
7.61E-05	0.140511	41.784241	
1.00000	0.230566	80.242608	0.304295
7.61E-05	0.266173	16.182861	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4845

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.091955	-81.303755	-0.116263
-0.000640	-0.320155	-53.282630	
0.25000	-0.091955	-61.542225	-0.116263
-0.000640	-0.176605	-22.744041	
0.50000	-0.091955	-39.013259	-0.116263
-0.000640	-0.038446	-22.504312	
0.75000	-0.091955	-18.311612	-0.116263
-0.000640	-0.374307	-22.350869	
1.00000	-0.091955	-9.604549	-0.116263
-0.000640	-0.746827	-52.058540	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.380557	7.797532	0.422648
6.88E-05	1.065015	13.086929	
0.25000	0.380557	15.638372	0.422648
6.88E-05	0.554576	37.893937	
0.50000	0.380557	34.358690	0.422648
6.88E-05	0.059916	52.799037	
0.75000	0.380557	54.749894	0.422648
6.88E-05	0.235897	40.233576	
1.00000	0.380557	72.638351	0.422648
6.88E-05	0.462091	17.382776	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.186113	-73.898188	-0.196109
-0.001195	-0.517756	-50.760530	
0.25000	-0.186113	-56.012611	-0.196109
-0.001195	-0.275293	-23.106447	
0.50000	-0.186113	-35.622311	-0.196109
-0.001195	-0.042799	-22.881213	
0.75000	-0.186113	-16.885862	-0.196109
-0.001195	-0.515015	-22.734243	
1.00000	-0.186113	-9.005357	-0.196109
-0.001195	-1.034189	-49.506783	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.374666	4.935380	0.498040
0.000742	1.256143	11.987012	
0.25000	0.374666	9.663555	0.498040
0.000742	0.647799	27.236525	
0.50000	0.374666	20.952262	0.498040
0.000742	0.054202	36.745606	
0.75000	0.374666	33.248545	0.498040
0.000742	0.306388	30.037169	
1.00000	0.374666	44.035625	0.498040
0.000742	0.616657	17.170434	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.236613	-45.593776	-0.259117
-0.001000	-0.670351	-35.276279	
0.25000	-0.236613	-34.808434	-0.259117
-0.001000	-0.349855	-18.252421	
0.50000	-0.236613	-22.512695	-0.259117
-0.001000	-0.038786	-17.930089	
0.75000	-0.236613	-11.214261	-0.259117
-0.001000	-0.597791	-17.704007	
1.00000	-0.236613	-6.462167	-0.259117
-0.001000	-1.211248	-33.687104	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.086683	0.113013	0.240562
0.001161	0.606707	3.427260	
0.25000	0.086683	0.121148	0.240562
0.001161	0.309257	3.847229	
0.50000	0.086683	0.140569	0.240562
0.001161	0.015978	4.420595	
0.75000	0.086683	0.161724	0.240562
0.001161	0.190042	5.124377	
1.00000	0.086683	0.180282	0.240562
0.001161	0.389480	5.858247	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4846

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.149782	-0.948539	-0.161374
-6.60E-06	-0.407930	-4.255992	
0.25000	-0.149782	-0.929984	-0.161374
-6.60E-06	-0.208463	-3.845187	
0.50000	-0.149782	-0.908830	-0.161374
-6.60E-06	-0.011093	-3.639711	
0.75000	-0.149782	-0.889392	-0.161374
-6.60E-06	-0.284473	-3.490260	
1.00000	-0.149782	-0.881216	-0.161374
-6.60E-06	-0.581767	-3.365957	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.201918	12.128403	0.386727
0.001422	0.913486	16.469575	
0.25000	0.201918	24.427759	0.386727
0.001422	0.514236	54.716157	
0.50000	0.201918	53.792965	0.386727
0.001422	0.070961	77.328119	
0.75000	0.201918	85.779166	0.386727
0.001422	0.287748	56.863163	
1.00000	0.201918	113.839492	0.386727
0.001422	0.554091	20.232373	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.193092	-115.106779	-0.235115
-6.52E-05	-0.622153	-73.870188	
0.25000	-0.193092	-87.050973	-0.235115
-6.52E-05	-0.331662	-30.491641	
0.50000	-0.193092	-55.066188	-0.235115
-6.52E-05	-0.048015	-30.108138	
0.75000	-0.193092	-25.675680	-0.235115
-6.52E-05	-0.478747	-29.862012	
1.00000	-0.193092	-13.314104	-0.235115
-6.52E-05	-0.951865	-72.035011	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.257435	8.845442	0.470303
0.001231	1.186874	15.362439	
0.25000	0.257435	17.711227	0.470303
0.001231	0.619093	43.313562	
0.50000	0.257435	38.678646	0.470303
0.001231	0.068299	60.175901	
0.75000	0.257435	61.935366	0.470303
0.001231	0.294590	46.078400	
1.00000	0.257435	82.162184	0.470303
0.001231	0.580896	20.378208	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185489	-83.780559	-0.245797
-0.000379	-0.647331	-57.264891	
0.25000	-0.185489	-63.556998	-0.245797
-0.000379	-0.343761	-25.887277	
0.50000	-0.185489	-40.501299	-0.245797
-0.000379	-0.046094	-25.277974	
0.75000	-0.185489	-19.315642	-0.245797
-0.000379	-0.570602	-25.003597	
1.00000	-0.185489	-10.405005	-0.245797
-0.000379	-1.148375	-55.288667	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.337091	7.379958	0.519863
0.001026	1.319622	14.191568	
0.25000	0.337091	14.737608	0.519863
0.001026	0.679312	37.621565	
0.50000	0.337091	32.304293	0.519863
0.001026	0.064559	51.888040	
0.75000	0.337091	51.438896	0.519863
0.001026	0.326817	40.506315	
1.00000	0.337091	68.224983	0.519863
0.001026	0.650041	19.500352	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4847

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.255207	-69.857766	-0.273338
-0.000818	-0.711352	-49.715446	
0.25000	-0.255207	-53.074382	-0.273338
-0.000818	-0.373520	-23.475617	
0.50000	-0.255207	-33.940627	-0.273338
-0.000818	-0.044911	-23.106617	
0.75000	-0.255207	-16.358805	-0.273338
-0.000818	-0.628469	-22.855876	
1.00000	-0.255207	-8.963934	-0.273338
-0.000818	-1.267980	-47.966228	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.261946	10.471805	0.286408
0.001487	0.719525	17.812291	
0.25000	0.261946	31.759446	0.286408
0.001487	0.374458	72.899617	
0.50000	0.261946	59.846075	0.286408
0.001487	0.065947	95.703772	
0.75000	0.261946	86.166134	0.286408
0.001487	0.206336	75.065295	
1.00000	0.261946	113.731179	0.286408
0.001487	0.399943	21.197884	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.177176	-114.856204	-0.166263
-0.001491	-0.430959	-80.040370	
0.25000	-0.177176	-87.236611	-0.166263
-0.001491	-0.225443	-31.487766	
0.50000	-0.177176	-60.921342	-0.166263
-0.001491	-0.052779	-30.755718	
0.75000	-0.177176	-32.830249	-0.166263
-0.001491	-0.353976	-30.946646	
1.00000	-0.177176	-11.464307	-0.166263
-0.001491	-0.707522	-78.790736	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.452363	12.128403	0.519863
0.001422	1.310622	16.469575	
0.25000	0.452363	24.427759	0.519863
0.001422	0.679312	54.716157	
0.50000	0.452363	53.792965	0.519863
0.001422	0.070961	77.328119	
0.75000	0.452363	85.779166	0.519863
0.001422	0.326817	56.863163	
1.00000	0.452363	113.839492	0.519863
0.001422	0.650041	20.378208	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267341	-115.106779	-0.273338
-0.001439	-0.711352	-73.870188	
0.25000	-0.267341	-87.050973	-0.273338
-0.001439	-0.373520	-30.491641	
0.50000	-0.267341	-55.066188	-0.273338
-0.001439	-0.048015	-30.108138	
0.75000	-0.267341	-25.675680	-0.273338
-0.001439	-0.628469	-29.862012	
1.00000	-0.267341	-13.314104	-0.273338
-0.001439	-1.267980	-72.035011	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.452363	12.128403	0.519863
0.001487	1.310622	17.812291	
0.25000	0.452363	31.759446	0.519863
0.001487	0.679312	72.899617	
0.50000	0.452363	59.846075	0.519863
0.001487	0.070961	95.703772	
0.75000	0.452363	86.166134	0.519863
0.001487	0.326817	75.065295	
1.00000	0.452363	113.839492	0.519863
0.001487	0.650041	21.197884	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4848

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267341	-115.106779	-0.273338
-0.001491	-0.711352	-80.040370	
0.25000	-0.267341	-87.236611	-0.273338
-0.001491	-0.373520	-31.487766	
0.50000	-0.267341	-60.921342	-0.273338
-0.001491	-0.052779	-30.755718	
0.75000	-0.267341	-32.830249	-0.273338
-0.001491	-0.628469	-30.946646	
1.00000	-0.267341	-13.314104	-0.273338
-0.001491	-1.267980	-78.790736	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.452363	12.128403	0.519863
0.001487	1.310622	17.812291	
0.25000	0.452363	31.759446	0.519863
0.001487	0.679312	72.899617	
0.50000	0.452363	59.846075	0.519863
0.001487	0.070961	95.703772	
0.75000	0.452363	86.166134	0.519863
0.001487	0.326817	75.065295	
1.00000	0.452363	113.839492	0.519863
0.001487	0.650041	21.197884	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267341	-115.106779	-0.273338
-0.001491	-0.711352	-80.040370	
0.25000	-0.267341	-87.236611	-0.273338
-0.001491	-0.373520	-31.487766	
0.50000	-0.267341	-60.921342	-0.273338
-0.001491	-0.052779	-30.755718	
0.75000	-0.267341	-32.830249	-0.273338
-0.001491	-0.628469	-30.946646	
1.00000	-0.267341	-13.314104	-0.273338
-0.001491	-1.267980	-78.790736	

ELEM 474 ========== LENGTH = 4.942894

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.135429	0.027419	0.083942
5.07E-07	0.207218	2.321966	
0.25000	0.135429	0.051502	0.083942
5.07E-07	0.103491	2.663228	
0.50000	0.135429	0.083272	0.083942
5.07E-07	0.011446	2.987456	
0.75000	0.135429	0.113043	0.083942
5.07E-07	0.101233	3.278717	
1.00000	0.135429	0.144234	0.083942
5.07E-07	0.201168	3.543927	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.083403	-0.423853	-0.080890
-0.000650	-0.198698	-2.128717	
0.25000	-0.083403	-0.392620	-0.080890
-0.000650	-0.098733	-2.065142	
0.50000	-0.083403	-0.362854	-0.080890
-0.000650	-0.007308	-2.055347	
0.75000	-0.083403	-0.331082	-0.080890
-0.000650	-0.104000	-2.046730	
1.00000	-0.083403	-0.306929	-0.080890
-0.000650	-0.207740	-2.092026	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.216763	0.412891	0.147769
3.50E-06	0.371332	5.378134	
0.25000	0.216763	1.087203	0.147769
3.50E-06	0.189137	7.490716	
0.50000	0.216763	1.976774	0.147769
3.50E-06	0.024175	8.731295	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4849

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.216763	2.810355	0.147769
3.50E-06	0.161759	8.698165	
1.00000	0.216763	3.683702	0.147769
3.50E-06	0.320855	7.725662	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.164900	-4.287944	-0.129020
-0.001135	-0.317544	-6.128114	
0.25000	-0.164900	-3.413408	-0.129020
-0.001135	-0.158092	-4.571120	
0.50000	-0.164900	-2.579974	-0.129020
-0.001135	-0.014062	-4.519937	
0.75000	-0.164900	-1.690344	-0.129020
-0.001135	-0.177781	-4.501750	
1.00000	-0.164900	-1.014071	-0.129020
-0.001135	-0.360249	-5.993120	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.274659	0.244593	0.201705
0.000202	0.512359	8.891415	
0.25000	0.274659	0.266267	0.201705
0.000202	0.263377	9.424211	
0.50000	0.274659	0.294860	0.201705
0.000202	0.036089	10.195464	
0.75000	0.274659	0.321654	0.201705
0.000202	0.163560	11.211251	
1.00000	0.274659	0.349726	0.201705
0.000202	0.325071	12.402118	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.136078	-1.320399	-0.130671
-0.001292	-0.320836	-5.357494	
0.25000	-0.136078	-1.292289	-0.130671
-0.001292	-0.159314	-5.245363	
0.50000	-0.136078	-1.265500	-0.130671
-0.001292	-0.017290	-5.181633	
0.75000	-0.136078	-1.236905	-0.130671
-0.001292	-0.236351	-5.118964	
1.00000	-0.136078	-1.215168	-0.130671
-0.001292	-0.485393	-5.104816	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.282530	6.500637	0.234821
0.000616	0.602227	17.945110	
0.25000	0.282530	19.270415	0.234821
0.000616	0.312429	51.408251	
0.50000	0.282530	36.116667	0.234821
0.000616	0.067908	65.374403	
0.75000	0.282530	51.902605	0.234821
0.000616	0.193089	53.593210	
1.00000	0.282530	68.441621	0.234821
0.000616	0.371281	22.038173	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.156403	-69.645845	-0.149696
-0.001137	-0.381421	-50.647404	
0.25000	-0.156403	-53.084321	-0.149696
-0.001137	-0.196473	-21.622173	
0.50000	-0.156403	-37.301149	-0.149696
-0.001137	-0.040997	-21.113229	
0.75000	-0.156403	-20.453783	-0.149696
-0.001137	-0.286954	-21.229152	
1.00000	-0.156403	-7.646936	-0.149696
-0.001137	-0.576834	-49.932318	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.095779	0.120658	0.077213
7.94E-05	0.200814	3.688942	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4850

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.095779	0.144741	0.077213
7.94E-05	0.105654	3.925401	
0.50000	0.095779	0.176511	0.077213
7.94E-05	0.015157	4.257508	
0.75000	0.095779	0.206282	0.077213
7.94E-05	0.054551	4.662792	
1.00000	0.095779	0.237473	0.077213
7.94E-05	0.108418	5.123130	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074429	-0.636367	-0.043622
-0.000507	-0.107170	-2.151756	
0.25000	-0.074429	-0.605133	-0.043622
-0.000507	-0.053251	-2.066913	
0.50000	-0.074429	-0.575368	-0.043622
-0.000507	-0.006492	-2.035848	
0.75000	-0.074429	-0.543595	-0.043622
-0.000507	-0.086140	-2.005962	
1.00000	-0.074429	-0.519443	-0.043622
-0.000507	-0.181359	-2.029989	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.190864	8.638228	0.164102
0.000298	0.429069	17.678501	
0.25000	0.190864	26.122167	0.164102
0.000298	0.233503	63.069341	
0.50000	0.190864	49.187474	0.164102
0.000298	0.065553	81.629406	
0.75000	0.190864	70.801036	0.164102

0.000298	0.085557	64.725297	
1.00000	0.190864	93.445685	0.164102
0.000298	0.151846	20.570480	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.069260	-94.371952	-0.061186
-0.000654	-0.168066	-65.245915	
0.25000	-0.069260	-71.696485	-0.061186
-0.000654	-0.092530	-25.559242	
0.50000	-0.069260	-50.086711	-0.061186
-0.000654	-0.042640	-24.916085	
0.75000	-0.069260	-27.019879	-0.061186
-0.000654	-0.204472	-25.128474	
1.00000	-0.069260	-9.485186	-0.061186
-0.000654	-0.407003	-64.481530	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.265971	7.809051	0.209953
0.000269	0.539145	17.891305	
0.25000	0.265971	23.609619	0.209953
0.000269	0.286408	59.162879	
0.50000	0.265971	44.454176	0.209953
0.000269	0.068674	76.182894	
0.75000	0.265971	63.986762	0.209953
0.000269	0.153398	61.157951	
1.00000	0.265971	84.451162	0.209953
0.000269	0.288440	21.506708	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.112761	-85.524270	-0.116088
-0.001092	-0.301160	-60.601248	
0.25000	-0.112761	-65.032019	-0.116088
-0.001092	-0.157777	-24.725540	
0.50000	-0.112761	-45.502856	-0.116088
-0.001092	-0.044187	-24.134199	
0.75000	-0.112761	-24.656921	-0.116088
-0.001092	-0.261874	-24.916031	
1.00000	-0.112761	-8.810486	-0.116088
-0.001092	-0.521146	-59.870028	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4851

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.251088	5.370122	0.232283
0.000870	0.597907	17.519467	
0.25000	0.251088	15.737665	0.232283
0.000870	0.315663	44.774853	
0.50000	0.251088	29.414820	0.232283
0.000870	0.065454	56.301589	
0.75000	0.251088	42.231126	0.232283
0.000870	0.196300	47.033808	
1.00000	0.251088	55.658842	0.232283
0.000870	0.380789	21.804200	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.157606	-56.943656	-0.153741
-0.000914	-0.389500	-42.363314	
0.25000	-0.157606	-43.497666	-0.153741
-0.000914	-0.199522	-18.764108	
0.50000	-0.157606	-30.683606	-0.153741
-0.000914	-0.036741	-18.316739	
0.75000	-0.157606	-17.005547	-0.153741
-0.000914	-0.280718	-18.376687	
1.00000	-0.157606	-6.607908	-0.153741
-0.000914	-0.565430	-41.646080	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.056277	0.154502	0.100162
0.001031	0.249118	5.627993	
0.25000	0.056277	0.178584	0.100162
0.001031	0.125352	5.914217	
0.50000	0.056277	0.210355	0.100162
0.001031	0.020032	6.344343	
0.75000	0.056277	0.240125	0.100162
0.001031	0.121199	6.925150	
1.00000	0.056277	0.271316	0.100162
0.001031	0.243049	7.576078	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.114530	-0.860323	-0.098650
-6.50E-06	-0.244680	-2.615712	
0.25000	-0.114530	-0.829090	-0.098650
-6.50E-06	-0.122783	-2.489292	
0.50000	-0.114530	-0.799324	-0.098650
-6.50E-06	-0.007245	-2.416651	
0.75000	-0.114530	-0.767552	-0.098650
-6.50E-06	-0.122247	-2.345188	
1.00000	-0.114530	-0.743399	-0.098650
-6.50E-06	-0.246021	-2.327638	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.141009	10.527631	0.179038
0.001328	0.455962	21.135465	
0.25000	0.141009	31.816615	0.179038
0.001328	0.248558	76.424636	
0.50000	0.141009	59.901645	0.179038
0.001328	0.076345	98.967542	
0.75000	0.141009	86.218984	0.179038
0.001328	0.167391	78.290424	
1.00000	0.141009	113.791808	0.179038
0.001328	0.313724	24.391364	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.148147	-114.850398	-0.127708
-7.18E-05	-0.339713	-78.810886	
0.25000	-0.148147	-87.240050	-0.127708
-7.18E-05	-0.182000	-30.462979	
0.50000	-0.148147	-60.927322	-0.127708
-7.18E-05	-0.049288	-29.655663	
0.75000	-0.148147	-32.840436	-0.127708
-7.18E-05	-0.237318	-29.890087	
1.00000	-0.148147	-11.489653	-0.127708
-7.18E-05	-0.458525	-77.783415	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4852

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.199829	7.375024	0.225303
0.001303	0.576292	20.377923	
0.25000	0.199829	21.983506	0.225303
0.001303	0.309330	58.512910	
0.50000	0.199829	41.255428	0.225303
0.001303	0.074167	74.390302	
0.75000	0.199829	59.314362	0.225303
0.001303	0.178677	60.839462	
1.00000	0.199829	78.234809	0.225303
0.001303	0.342225	24.627161	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.140638	-79.573863	-0.138646
-0.000430	-0.357680	-56.837355	
0.25000	-0.140638	-60.627667	-0.138646
-0.000430	-0.186420	-23.605839	
0.50000	-0.140638	-42.571897	-0.138646
-0.000430	-0.042127	-22.996633	
0.75000	-0.140638	-23.298701	-0.138646
-0.000430	-0.279906	-23.102268	
1.00000	-0.140638	-8.647813	-0.138646
-0.000430	-0.558159	-55.911385	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.238546	6.130984	0.239045
0.001084	0.609163	18.828567	
0.25000	0.238546	18.214409	0.239045
0.001084	0.325813	50.526043	
0.50000	0.238546	34.155205	0.239045
0.001084	0.070130	63.869122	
0.75000	0.238546	49.092677	0.239045
0.001084	0.207341	52.910228	
1.00000	0.238546	64.742749	0.239045
0.001084	0.401490	23.259345	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.174146	-66.094663	-0.162304
-0.000782	-0.412838	-48.457426	
0.25000	-0.174146	-50.423292	-0.162304
-0.000782	-0.212298	-20.956832	
0.50000	-0.174146	-35.488437	-0.162304
-0.000782	-0.039630	-20.439825	
0.75000	-0.174146	-19.546588	-0.162304
-0.000782	-0.294814	-20.514099	
1.00000	-0.174146	-7.428086	-0.162304
-0.000782	-0.590034	-47.639103	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.282012	0.030568	0.160422
2.73E-07	0.404606	3.351288	
0.25000	0.282012	0.038709	0.160422
2.73E-07	0.206670	3.733078	
0.50000	0.282012	0.058130	0.160422
2.73E-07	0.015733	4.108366	
0.75000	0.282012	0.077283	0.160422
2.73E-07	0.137032	4.461228	
1.00000	0.282012	0.097839	0.160422
2.73E-07	0.275212	4.807368	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.139861	-0.449041	-0.112349
-0.000643	-0.280326	-2.780112	
0.25000	-0.139861	-0.430483	-0.112349
-0.000643	-0.141527	-2.729638	
0.50000	-0.139861	-0.409329	-0.112349
-0.000643	-0.009540	-2.707154	
0.75000	-0.139861	-0.389895	-0.112349
-0.000643	-0.191471	-2.684858	
1.00000	-0.139861	-0.381732	-0.112349
-0.000643	-0.389077	-2.690583	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4853

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.401146	0.332709	0.287245
1.51E-06	0.728539	6.878733	
0.25000	0.401146	0.568817	0.287245
1.51E-06	0.374458	8.226957	
0.50000	0.401146	1.132025	0.287245
1.51E-06	0.031659	9.296471	
0.75000	0.401146	1.745455	0.287245
1.51E-06	0.212356	9.621607	
1.00000	0.401146	2.283587	0.287245
1.51E-06	0.425375	9.669390	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.237670	-2.987182	-0.173857
-0.001093	-0.434855	-6.274881	
0.25000	-0.237670	-2.449001	-0.173857
-0.001093	-0.220049	-5.402325	
0.50000	-0.237670	-1.835551	-0.173857
-0.001093	-0.017186	-5.341777	
0.75000	-0.237670	-1.271943	-0.173857
-0.001093	-0.340197	-5.285572	
1.00000	-0.237670	-1.035220	-0.173857
-0.001093	-0.693518	-6.043349	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.458355	0.265335	0.349820
0.000195	0.895884	10.609213	
0.25000	0.458355	0.272662	0.349820
0.000195	0.464068	11.437172	
0.50000	0.458355	0.290141	0.349820
0.000195	0.047035	12.384229	
0.75000	0.458355	0.309179	0.349820
0.000195	0.210792	13.550071	
1.00000	0.458355	0.325879	0.349820
0.000195	0.428125	14.764792	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.213001	-1.419029	-0.176745
-0.001183	-0.446065	-7.091964	
0.25000	-0.213001	-1.402327	-0.176745
-0.001183	-0.227721	-6.966472	
0.50000	-0.213001	-1.383289	-0.176745
-0.001183	-0.022791	-6.866522	
0.75000	-0.213001	-1.365798	-0.176745
-0.001183	-0.404565	-6.766354	
1.00000	-0.213001	-1.358451	-0.176745
-0.001183	-0.835489	-6.691647	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.455900	5.899417	0.402567
0.000545	1.033523	17.257766	
0.25000	0.455900	11.596569	0.402567
0.000545	0.544040	35.612155	
0.50000	0.455900	25.186400	0.402567
0.000545	0.073969	46.650161	
0.75000	0.455900	39.988043	0.402567
0.000545	0.260287	38.020989	
1.00000	0.455900	52.972776	0.402567
0.000545	0.513518	21.964705	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.234477	-54.291072	-0.213786
-0.001047	-0.551992	-38.564839	
0.25000	-0.234477	-41.305129	-0.213786
-0.001047	-0.287882	-18.687887	
0.50000	-0.234477	-26.503001	-0.213786
-0.001047	-0.037598	-18.404485	
0.75000	-0.234477	-12.903538	-0.213786
-0.001047	-0.472535	-18.224562	
1.00000	-0.234477	-7.191576	-0.213786
-0.001047	-0.966787	-37.681405	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4854

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.117971	0.127338	0.135667
6.94E-05	0.349160	4.168056	
0.25000	0.117971	0.135480	0.135667
6.94E-05	0.181812	4.553609	
0.50000	0.117971	0.154901	0.135667
6.94E-05	0.018851	4.943421	
0.75000	0.117971	0.176054	0.135667
6.94E-05	0.065872	5.355064	
1.00000	0.117971	0.194610	0.135667
6.94E-05	0.133170	5.802879	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.085485	-0.629577	-0.055156
-0.000437	-0.139433	-2.728746	
0.25000	-0.085485	-0.610969	-0.055156
-0.000437	-0.071340	-2.656347	
0.50000	-0.085485	-0.589815	-0.055156
-0.000437	-0.008243	-2.611957	
0.75000	-0.085485	-0.570381	-0.055156
-0.000437	-0.155717	-2.567878	
1.00000	-0.085485	-0.562218	-0.055156
-0.000437	-0.322511	-2.551711	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.233791	8.622903	0.245303
0.000249	0.636660	16.117243	
0.25000	0.233791	17.293810	0.245303
0.000249	0.345330	43.379163	
0.50000	0.233791	37.977154	0.245303
0.000249	0.069299	59.384167	
0.75000	0.233791	60.504843	0.245303
0.000249	0.113165	45.027916	
1.00000	0.233791	80.267244	0.245303
0.000249	0.207812	19.324714	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.085762	-81.241566	-0.089231
-0.000540	-0.246797	-52.085221	
0.25000	-0.085762	-61.477323	-0.089231
-0.000540	-0.136352	-21.930560	
0.50000	-0.085762	-38.949896	-0.089231
-0.000540	-0.035578	-21.596784	
0.75000	-0.085762	-18.250892	-0.089231
-0.000540	-0.291615	-21.420707	
1.00000	-0.085762	-9.557446	-0.089231
-0.000540	-0.590851	-51.130825	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.394841	7.807713	0.349327
0.000225	0.897280	17.329808	
0.25000	0.394841	15.655495	0.349327
0.000225	0.476663	42.300714	
0.50000	0.394841	34.375377	0.349327
0.000225	0.075249	57.086334	
0.75000	0.394841	54.764523	0.349327
0.000225	0.202896	44.388530	
1.00000	0.394841	72.650887	0.349327
0.000225	0.388490	21.429568	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.168180	-73.826181	-0.162579
-0.000975	-0.347160	-49.554049	
0.25000	-0.168180	-55.938148	-0.162579
-0.000975	-0.226538	-22.235926	
0.50000	-0.168180	-35.548336	-0.162579
-0.000975	-0.039511	-21.915800	
0.75000	-0.168180	-16.815185	-0.162579
-0.000975	-0.416741	-21.738395	
1.00000	-0.168180	-8.947004	-0.162579
-0.000975	-0.843700	-48.457081	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4855

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.370799	4.958788	0.412765
0.000787	1.061412	17.082773	
0.25000	0.370799	9.691149	0.412765
0.000787	0.557887	32.499646	
0.50000	0.370799	20.979593	0.412765
0.000787	0.072846	41.905406	
0.75000	0.370799	33.274635	0.412765
0.000787	0.263645	35.036659	
1.00000	0.370799	44.060452	0.412765
0.000787	0.524623	22.026667	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.225777	-45.455377	-0.218526
-0.000893	-0.563187	-33.685985	
0.25000	-0.225777	-34.669553	-0.218526
-0.000893	-0.270937	-17.139294	
0.50000	-0.225777	-22.373109	-0.218526
-0.000893	-0.035241	-16.867959	
0.75000	-0.225777	-11.076664	-0.218526
-0.000893	-0.481274	-16.682396	
1.00000	-0.225777	-6.332001	-0.218526
-0.000893	-0.987743	-32.680728	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070666	0.137797	0.206260
0.000983	0.526267	5.802197	
0.25000	0.070666	0.145938	0.206260
0.000983	0.271389	6.300704	
0.50000	0.070666	0.165359	0.206260
0.000983	0.024299	6.844059	
0.75000	0.070666	0.186512	0.206260
0.000983	0.167805	7.463260	
1.00000	0.070666	0.205068	0.206260
0.000983	0.344035	8.115277	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.172176	-0.847939	-0.142527
-6.07E-06	-0.360259	-3.319350	
0.25000	-0.172176	-0.829381	-0.142527
-6.07E-06	-0.184042	-3.208509	
0.50000	-0.172176	-0.808228	-0.142527
-6.07E-06	-0.009611	-3.128502	
0.75000	-0.172176	-0.788793	-0.142527
-6.07E-06	-0.237554	-3.042969	
1.00000	-0.172176	-0.780630	-0.142527
-6.07E-06	-0.492756	-2.988132	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.178554	12.169396	0.326208
0.001183	0.837019	20.137953	
0.25000	0.178554	24.479642	0.326208
0.001183	0.452200	58.656676	
0.50000	0.178554	53.844164	0.326208
0.001183	0.084519	81.154501	
0.75000	0.178554	85.827137	0.326208
0.001183	0.249101	60.517390	
1.00000	0.178554	113.884178	0.326208
0.001183	0.474451	23.743476	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.210722	-115.022483	-0.199980
-5.92E-05	-0.532403	-72.013009	
0.25000	-0.210722	-86.062824	-0.199980
-5.92E-05	-0.285247	-29.209092	
0.50000	-0.210722	-54.978804	-0.199980
-5.92E-05	-0.044022	-28.742385	
0.75000	-0.210722	-25.593469	-0.199980
-5.92E-05	-0.394673	-28.499797	
1.00000	-0.210722	-13.251224	-0.199980
-5.92E-05	-0.733384	-70.647983	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4856

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.242138	8.890241	0.389386
0.001159	1.003049	20.263890	
0.25000	0.242138	17.763876	0.389386
0.001159	0.535604	48.476034	
0.50000	0.242138	38.930803	0.389386
0.001159	0.086233	65.212730	
0.75000	0.242138	61.997496	0.389386
0.001159	0.249597	50.927273	
1.00000	0.242138	82.209647	0.389386
0.001159	0.487870	25.059727	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.201517	-83.641518	-0.205503
-0.000328	-0.541015	-55.264674	
0.25000	-0.201517	-63.415181	-0.205503
-0.000328	-0.286874	-24.343675	
0.50000	-0.201517	-40.360033	-0.205503
-0.000328	-0.042042	-23.994033	
0.75000	-0.201517	-19.178105	-0.205503
-0.000328	-0.457733	-23.699512	
1.00000	-0.201517	-10.281403	-0.205503
-0.000328	-0.935904	-54.042770	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.329111	7.411981	0.432712
0.000965	1.110408	19.404653	
0.25000	0.329111	14.776145	0.432712
0.000965	0.588166	43.051049	
0.50000	0.329111	32.342422	0.432712
0.000965	0.083551	57.191689	
0.75000	0.329111	51.475093	0.432712
0.000965	0.283658	45.629890	
1.00000	0.329111	68.259216	0.432712
0.000965	0.557187	24.466864	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.260303	-69.722364	-0.232684
-0.000678	-0.604178	-46.158754	
0.25000	-0.260303	-52.936675	-0.232684
-0.000678	-0.316469	-22.274129	
0.50000	-0.260303	-33.803377	-0.232684
-0.000678	-0.040997	-21.916930	
0.75000	-0.260303	-16.224651	-0.232684
-0.000678	-0.510479	-21.687478	
1.00000	-0.260303	-8.841304	-0.232684
-0.000678	-1.041496	-46.847387	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.282530	10.527631	0.239045
0.001328	0.609163	21.135465	
0.25000	0.282530	31.816615	0.239045
0.001328	0.325813	76.424636	
0.50000	0.282530	59.901645	0.239045
0.001328	0.076345	98.967542	
0.75000	0.282530	86.218984	0.239045
0.001328	0.207341	78.290424	
1.00000	0.282530	113.791808	0.239045
0.001328	0.401490	24.627161	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.174146	-114.850398	-0.162304
-0.001292	-0.412838	-78.810886	
0.25000	-0.174146	-87.240050	-0.162304
-0.001292	-0.212298	-30.462979	
0.50000	-0.174146	-60.927322	-0.162304
-0.001292	-0.049288	-29.655663	
0.75000	-0.174146	-32.840436	-0.162304
-0.001292	-0.294814	-29.890087	
1.00000	-0.174146	-11.489653	-0.162304
-0.001292	-0.590034	-77.783415	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4857

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.458355	12.169396	0.432712
0.001183	1.110408	20.263890	
0.25000	0.458355	24.479642	0.432712
0.001183	0.588166	58.656676	
0.50000	0.458355	53.844164	0.432712
0.001183	0.086233	81.154501	
0.75000	0.458355	85.827137	0.432712
0.001183	0.283658	60.517390	
1.00000	0.458355	113.884178	0.432712
0.001183	0.557187	25.059727	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.260303	-115.022483	-0.232684

```
-0.001183   -0.604178   -72.013009
 0.25000    -0.260303   -86.962824    -0.232684
-0.001183   -0.316469   -29.209092
 0.50000    -0.260303   -54.978804    -0.232684
-0.001183   -0.044022   -28.742385
 0.75000    -0.260303   -25.593469    -0.232684
-0.001183   -0.510479   -28.499797
 1.00000    -0.260303   -13.251224    -0.232684
-0.001183   -1.041496   -70.647983

COMB      CAR ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.458355   12.169396    0.432712
 0.001328   1.110408   21.135465
 0.25000    0.458355   31.816615    0.432712
 0.001328   0.588166   76.424636
 0.50000    0.458355   59.901645    0.432712
 0.001328   0.086233   98.967542
 0.75000    0.458355   86.218984    0.432712
 0.001328   0.283658   78.290424
 1.00000    0.458355  113.884178    0.432712
 0.001328   0.557187   25.059727

COMB      CAR ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.260303 -115.022483    -0.232684
-0.001292   -0.604178   -78.810886
 0.25000   -0.260303   -87.240050    -0.232684
-0.001292   -0.316469   -30.462979
 0.50000   -0.260303   -60.927322    -0.232684
-0.001292   -0.049288   -29.655663
 0.75000   -0.260303   -32.840436    -0.232684
-0.001292   -0.510479   -29.890087
 1.00000   -0.260303   -13.251224    -0.232684
-0.001292   -1.041496   -77.783415

COMB      DESIGN ---------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.458355   12.169396    0.432712
 0.001328   1.110408   21.135465
 0.25000    0.458355   31.816615    0.432712
 0.001328   0.588166   76.424636
 0.50000    0.458355   59.901645    0.432712
 0.001328   0.086233   98.967542
 0.75000    0.458355   86.218984    0.432712
 0.001328   0.283658   78.290424
 1.00000    0.458355  113.884178    0.432712
 0.001328   0.557187   25.059727

COMB      DESIGN ---------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.260303 -115.022483    -0.232684
-0.001292   -0.604178   -78.810886
 0.25000   -0.260303   -87.240050    -0.232684
-0.001292   -0.316469   -30.462979
 0.50000   -0.260303   -60.927322    -0.232684
-0.001292   -0.049288   -29.655663
 0.75000   -0.260303   -32.840436    -0.232684
-0.001292   -0.510479   -29.890087
 1.00000   -0.260303   -13.251224    -0.232684
-0.001292   -1.041496   -77.783415
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4858

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       475 ================== LENGTH
=     4.943165

COMB DB-G1-1 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.159426    0.040314    0.084159
3.88E-06    0.207802    3.548537
 0.25000    0.159426    0.064408    0.084159
3.88E-06    0.103802    3.760545
 0.50000    0.159426    0.096178    0.084159
3.88E-06    0.015501    3.948512
 0.75000    0.159426    0.125948    0.084159
3.88E-06    0.104585    4.111777
 1.00000    0.159426    0.157154    0.084159
3.88E-06    0.207950    4.226879

COMB DB-G1-1 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.076467   -0.329141   -0.083640
-0.000456   -0.205524   -2.095802
 0.25000   -0.076467   -0.297914   -0.083640
-0.000456   -0.102164   -1.972455
 0.50000   -0.076467   -0.268146   -0.083640
-0.000456   -0.000257   -1.850279
 0.75000   -0.076467   -0.236375   -0.083640
-0.000456   -0.104447   -1.834354
 1.00000   -0.076467   -0.212260   -0.083640
-0.000456   -0.208429   -1.819859

COMB DB-G1-2 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.246120    0.472163    0.135705
8.59E-05    0.337632    7.723761
 0.25000    0.246120    1.146782    0.135705
8.59E-05    0.170175    9.591208
 0.50000    0.246120    2.036353    0.135705
8.59E-05    0.031247   10.556268
 0.75000    0.246120    2.869927    0.135705
8.59E-05    0.167225   10.258504
 1.00000    0.246120    3.743693    0.135705
8.59E-05    0.331748    9.019560

COMB DB-G1-2 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.151802   -4.105120   -0.133346
-0.000837   -0.326257   -5.999727
 0.25000   -0.151802   -3.230768   -0.133346
-0.000837   -0.163479   -4.348309
 0.50000   -0.151802   -2.397281   -0.133346
-0.000837   -0.012313   -4.198016
 0.75000   -0.151802   -1.507682   -0.133346
-0.000837   -0.168062   -4.082779
 1.00000   -0.151802   -0.832452   -0.133346
-0.000837   -0.334759   -5.477606

COMB DB-G1-3 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.303496    0.405666    0.166063
0.000305    0.424593   12.370120
 0.25000    0.303496    0.427350    0.166063
0.000305    0.219910   12.529031
 0.50000    0.303496    0.455943    0.166063
0.000305    0.045962   12.881423
 0.75000    0.303496    0.482737    0.166063
0.000305    0.169086   13.494311
 1.00000    0.303496    0.510822    0.166063
0.000305    0.336198   14.288877

COMB DB-G1-3 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.125937   -1.056358   -0.135186
-0.001004   -0.332090   -5.109021
 0.25000   -0.125937   -1.028254   -0.135186
-0.001004   -0.165006   -4.874067
 0.50000   -0.125937   -1.001463   -0.135186
-0.001004   -0.015060   -4.687523
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4859

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.75000   -0.125937   -0.972869   -0.135186
-0.001004   -0.192315   -4.502143
 1.00000   -0.125937   -0.951165   -0.135186
-0.001004   -0.397116   -4.365300

COMB DB-G1-4 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.305808    6.720607    0.191820
0.000578    0.494738   21.982038
 0.25000    0.305808   19.496207    0.191820
0.000578    0.261476   55.042643
 0.50000    0.305808   36.342450    0.191820
0.000578    0.078882   68.485333
 0.75000    0.305808   52.128265    0.191820
0.000578    0.202314   56.237786
 1.00000    0.305808   68.675202    0.191820
0.000578    0.387090   24.176102

COMB DB-G1-4 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.148879   -69.331946   -0.154425
-0.000963   -0.392282   -49.954351
 0.25000   -0.148879   -52.773911   -0.154425
-0.000963   -0.201440   -20.906928
 0.50000   -0.148879   -36.989744   -0.154425
-0.000963   -0.037780   -20.283485
 0.75000   -0.148879   -20.142958   -0.154425
-0.000963   -0.236766   -20.323149
 1.00000   -0.148879    -7.355799   -0.154425
-0.000963   -0.472886   -48.959641

COMB DB-G2-1 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.098154    0.190936    0.053822
0.000161    0.140990    5.109122
 0.25000    0.098154    0.217299    0.053822
0.000161    0.074750    5.173421
 0.50000    0.098154    0.246800    0.053822
0.000161    0.018725    5.336663
 0.75000    0.098154    0.276570    0.053822
0.000161    0.056304    5.588222
 1.00000    0.098154    0.307776    0.053822
0.000161    0.111879    5.901526

COMB DB-G2-1 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.067709   -0.532916   -0.045017
-0.000416   -0.110550   -2.031136
 0.25000   -0.067709   -0.500790   -0.045017
-0.000416   -0.054991   -1.903372
 0.50000   -0.067709   -0.471022   -0.045017
-0.000416   -0.005689   -1.829236
 0.75000   -0.067709   -0.439251   -0.045017
-0.000416   -0.056523   -1.813381
 1.00000   -0.067709   -0.415135   -0.045017
-0.000416   -0.125803   -1.737457

COMB DB-G2-2 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.195160    8.834254    0.115066
0.000333    0.312096   20.509831
 0.25000    0.195160   26.326165    0.115066
0.000333    0.175096   65.650779
 0.50000    0.195160   49.391459    0.115066
0.000333    0.072794   83.794208
 0.75000    0.195160   71.004852    0.115066
0.000333    0.095086   66.561597
 1.00000    0.195160   93.660347    0.115066
0.000333    0.167308   22.052818

COMB DB-G2-2 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.064387   -94.147625   -0.065174
-0.000561   -0.176787   -64.509964
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4860

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.25000   -0.064387   -71.476934   -0.065174
-0.000561   -0.096222   -24.886685
 0.50000   -0.064387   -49.865798   -0.065174
-0.000561   -0.040071   -24.180368
 0.75000   -0.064387   -26.799760   -0.065174
-0.000561   -0.142333   -24.381940
 1.00000   -0.064387    -9.292022   -0.065174
-0.000561   -0.283271   -63.737302

COMB DB-G2-3 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.284854    7.994928    0.167196
0.000293    0.438006   21.453383
 0.25000    0.284854   23.802700    0.167196
0.000293    0.236046   62.388488
 0.50000    0.284854   44.647245    0.167196
0.000293    0.078271   78.918946
 0.75000    0.284854   64.179679    0.167196
0.000293    0.164471   63.478117
 1.00000    0.284854   84.653881    0.167196
0.000293    0.307455   23.394074

COMB DB-G2-3 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.104522   -85.244754   -0.121745
-0.000865   -0.314159   -59.898471
 0.25000   -0.104522   -64.756820   -0.121745
-0.000865   -0.163681   -24.034672
 0.50000   -0.104522   -45.226426   -0.121745
-0.000865   -0.041112   -23.340868
 0.75000   -0.104522   -24.381209   -0.121745
-0.000865   -0.206986   -23.467668
 1.00000   -0.104522    -8.559133   -0.121745
-0.000865   -0.412498   -58.978499

COMB DB-G2-4 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.262446    5.626004    0.192019
0.000792    0.494265   21.745132
 0.25000    0.262446   15.998273    0.192019
0.000792    0.260119   48.563263
 0.50000    0.262446   29.675421    0.192019
0.000792    0.076498   59.547830
 0.75000    0.262446   42.491627    0.192019
0.000792    0.203116   49.781309
 1.00000    0.262446   55.925774    0.192019
0.000792    0.392327   24.038038

COMB DB-G2-4 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.155710   -56.618558   -0.157047
-0.000905   -0.396983   -41.661732
 0.25000   -0.155710   -43.175400   -0.157047
-0.000905   -0.202865   -18.029714
 0.50000   -0.155710   -30.360532   -0.157047
-0.000905   -0.033621   -17.474490
 0.75000   -0.155710   -16.682944   -0.157047
-0.000905   -0.234332   -17.457733
 1.00000   -0.155710    -6.301289   -0.157047
-0.000905   -0.470829   -40.658208

COMB DB-G3-1 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.049698    0.298620    0.096645
0.000830    0.240300    7.563133
 0.25000    0.049698    0.322713    0.096645
0.000830    0.120875    7.639251
 0.50000    0.049698    0.354484    0.096645
0.000830    0.024565    7.817576
 0.75000    0.049698    0.384254    0.096645
0.000830    0.119204    8.163028
 1.00000    0.049698    0.415460    0.096645
0.000830    0.239048    8.600747
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4861

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.125838   -0.720335   -0.096980
-0.000247   -0.240376   -2.322078
 0.25000   -0.125838   -0.689109   -0.096980
-0.000247   -0.120509   -2.165732
 0.50000   -0.125838   -0.659341   -0.096980
-0.000247   -0.006170   -2.062990
 0.75000   -0.125838   -0.627570   -0.096980
-0.000247   -0.118635   -1.961500
 1.00000   -0.125838   -0.603454   -0.096980
-0.000247   -0.237480   -1.913968

COMB DB-G3-2 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.133381   10.766254    0.157700
 0.001021   0.408531   24.334855
 0.25000    0.133381   32.064944    0.157700
 0.001021   0.219407   79.341035
 0.50000    0.133381   60.149958    0.157700
 0.001021   0.083957  101.409987
 0.75000    0.133381   86.467092    0.157700
 0.001021   0.174377   80.349211
 1.00000    0.133381  114.053122    0.157700
 0.001021   0.322034   26.030968

COMB DB-G3-2 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.156862 -114.597368    -0.127807
-0.000365   -0.336825   -77.810997
 0.25000   -0.156862   -86.992835    -0.127807
-0.000365   -0.178878   -29.575176
 0.50000   -0.156862   -60.678449    -0.127807
-0.000365   -0.046307   -28.725825
 0.75000   -0.156862   -32.592530    -0.127807
-0.000365   -0.208504   -28.981914
 1.00000   -0.156862   -11.274568    -0.127807
-0.000365   -0.402402   -76.912882

COMB DB-G3-3 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.195781    7.679951    0.182655
0.001115    0.477295   24.558616
 0.25000    0.195781   22.295092    0.182655
0.001115    0.255949   62.292646
 0.50000    0.195781   41.567004    0.182655
0.001115    0.084307   77.587403
 0.75000    0.195781   59.625797    0.182655
0.001115    0.184218   63.530607
 1.00000    0.195781   78.555306    0.182655
0.001115    0.350171   26.813529

COMB DB-G3-3 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.149817   -79.252828   -0.139910
-0.000628   -0.355256   -55.928866
 0.25000   -0.149817   -60.310622   -0.139910
-0.000628   -0.186834   -22.726710
 0.50000   -0.149817   -42.253715   -0.139910
-0.000628   -0.038964   -22.041108
 0.75000   -0.149817   -22.981182   -0.139910
-0.000628   -0.223256   -22.114059
 1.00000   -0.149817    -6.328816   -0.139910
-0.000628   -0.447896   -54.901470

COMB DB-G3-4 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.243002    6.413433    0.200719
0.000952    0.517060   23.201075
 0.25000    0.243002   18.501277    0.200719
0.000952    0.272623   54.460307
 0.50000    0.243002   34.442064    0.200719
0.000952    0.081202   67.214393
 0.75000    0.243002   49.379419    0.200719
0.000952    0.213816   55.708555
 1.00000    0.243002   65.036988    0.200719
0.000952    0.411847   25.569105
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4862

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.177322   -65.758695   -0.164887
-0.000849   -0.418374   -47.655506
 0.25000   -0.177322   -50.090624   -0.164887
-0.000849   -0.214571   -20.142729
 0.50000   -0.177322   -35.154829   -0.164887
-0.000849   -0.036432   -19.526075
 0.75000   -0.177322   -19.213528   -0.164887
-0.000849   -0.246400   -19.536914
 1.00000   -0.177322    -7.113656   -0.164887
-0.000849   -0.493556   -46.607612

COMB DL-G1-1 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.292584    0.050678    0.142605
3.50E-06    0.357641    4.836691
 0.25000    0.292584    0.058825    0.142605
3.50E-06    0.181556    5.028679
 0.50000    0.292584    0.078248    0.142605
3.50E-06    0.020864    5.214722
 0.75000    0.292584    0.099402    0.142605
3.50E-06    0.148137    5.376065
 1.00000    0.292584    0.117959    0.142605
3.50E-06    0.290479    5.529678

COMB DL-G1-1 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.122244   -0.353354   -0.115507
-0.000409   -0.281032   -2.724456
 0.25000   -0.122244   -0.334797   -0.115507
-0.000409   -0.138536   -2.596603
 0.50000   -0.122244   -0.313642   -0.115507
-0.000409   -0.008178   -2.496540
 0.75000   -0.122244   -0.294213   -0.115507
-0.000409   -0.172419   -2.396756
 1.00000   -0.122244   -0.286055   -0.115507
-0.000409   -0.348193   -2.325137

COMB DL-G1-2 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.408316    0.403533    0.247804
8.15E-05    0.625052    9.699639
 0.25000    0.408316    0.639806    0.247804
8.15E-05    0.319433   10.687133
 0.50000    0.408316    1.203063    0.247804
8.15E-05    0.040265   11.381014
 0.75000    0.408316    1.816543    0.247804
8.15E-05    0.230278   11.318316
 1.00000    0.408316    2.354701    0.247804
8.15E-05    0.450048   10.992376

COMB DL-G1-2 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.218439   -2.804108   -0.179239
-0.000725   -0.436962   -6.096560
 0.25000   -0.218439   -2.265957   -0.179239
-0.000725   -0.215668   -5.110513
 0.50000   -0.218439   -1.652463   -0.179239
-0.000725   -0.015067   -4.911863
 0.75000   -0.218439   -1.089013   -0.179239
-0.000725   -0.297021   -4.730133
 1.00000   -0.218439   -0.852417   -0.179239
-0.000725   -0.601627   -5.360317

COMB DL-G1-3 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.466128    0.427028    0.281032
0.000279    0.717171   14.757546
 0.25000    0.466128    0.434361    0.281032
0.000279    0.371023   15.041827
 0.50000    0.466128    0.451841    0.281032
0.000279    0.058833   15.431198
 0.75000    0.466128    0.470880    0.281032
0.000279    0.230015   16.028675
 1.00000    0.466128    0.487582    0.281032
0.000279    0.446604   16.705652
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4863

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.196692   -1.156222   -0.176310
-0.000864   -0.427002   -6.739799
 0.25000   -0.196692   -1.139521   -0.176310
-0.000864   -0.210345   -6.455884
 0.50000   -0.196692   -1.120481   -0.176310
-0.000864   -0.019963   -6.196987
 0.75000   -0.196692   -1.102995   -0.176310
-0.000864   -0.328781   -5.938094
 1.00000   -0.196692   -1.095652   -0.176310
-0.000864   -0.674685   -5.705700

COMB DL-G1-4 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.458329    6.122426    0.317411
0.000502    0.816972   21.925855
 0.25000    0.458329   11.823533    0.317411
0.000502    0.432740   39.706748
 0.50000    0.458329   25.414538    0.317411
0.000502    0.086767   50.076377
 0.75000    0.458329   40.217371    0.317411
0.000502    0.271713   40.813029
 1.00000    0.458329   53.202756    0.317411
0.000502    0.513834   24.084495

COMB DL-G1-4 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.219895   -53.981448   -0.205083
-0.000827   -0.513548   -37.723632
 0.25000   -0.219895   -40.996254   -0.205083
-0.000827   -0.261141   -17.805030
 0.50000   -0.219895   -26.193067   -0.205083
-0.000827   -0.033590   -17.347886
 0.75000   -0.219895   -12.597394   -0.205083
-0.000827   -0.377876   -17.071490
 1.00000   -0.219895    -6.898574   -0.205083
-0.000827   -0.766056   -36.380531

COMB DL-G2-1 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.113774    0.198675    0.105900
0.000150    0.272960    5.791560
 0.25000    0.113774    0.206823    0.105900
0.000150    0.142265    5.965023
 0.50000    0.113774    0.226245    0.105900
0.000150    0.022954    6.134359
 0.75000    0.113774    0.247400    0.105900
0.000150    0.073566    6.272662
 1.00000    0.113774    0.265957    0.105900
0.000150    0.141142    6.539811

COMB DL-G2-1 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.085711   -0.523635   -0.055967
-0.000337   -0.136066   -2.567202
 0.25000   -0.085711   -0.505078   -0.055967
-0.000337   -0.067103   -2.440730
 0.50000   -0.085711   -0.483923   -0.055967
-0.000337   -0.007305   -2.342230
 0.75000   -0.085711   -0.464494   -0.055967
-0.000337   -0.121800   -2.243797
 1.00000   -0.085711   -0.456335   -0.055967
-0.000337   -0.251720   -2.173389

COMB DL-G2-2 ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.230769    8.824697    0.178306
0.000292    0.467140   19.275668
 0.25000    0.230769   17.501623    0.178306
0.000292    0.259139   46.191267
 0.50000    0.230769   38.186755    0.178306
0.000292    0.077157   61.700606
 0.75000    0.230769   60.716253    0.178306
0.000292    0.124031   46.908692
 1.00000    0.230769   80.479647    0.178306
0.000292    0.211444   20.691032
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING          LOAD                >
                                4864

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.085324   -81.029207   -0.083175
```

```
-0.000454   -0.218533   -51.167695
 0.25000    -0.085324   -61.266104    -0.083175
-0.000454   -0.116677   -21.095795
 0.50000    -0.085324   -38.736065    -0.083175
-0.000454   -0.032504   -20.644353
 0.75000    -0.085324   -18.043829    -0.083175
-0.000454   -0.216502   -20.466673
 1.00000    -0.085324   -9.355058     -0.083175
-0.000454   -0.432753   -50.098166

COMB DL-G2-3 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.396787    8.010073     0.274453
 0.000256   0.707480    21.402901
 0.25000    0.396787    15.863302    0.274453
 0.000256   0.379802    45.907876
 0.50000    0.396787    34.584803    0.274453
 0.000256   0.086574    60.083557
 0.75000    0.396787    54.975585    0.274453
 0.000256   0.220783    46.826605
 1.00000    0.396787    72.862849    0.274453
 0.000256   0.404330    23.237008

COMB DL-G2-3 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.160127   -73.553954    -0.159971
-0.000725  -0.404546   -48.511399
 0.25000   -0.160127   -55.666953    -0.159971
-0.000725  -0.207869   -21.214706
 0.50000   -0.160127   -35.275681    -0.159971
-0.000725  -0.035842   -20.726605
 0.75000   -0.160127   -16.547751    -0.159971
-0.000725  -0.331847   -20.401972
 1.00000   -0.160127   -8.683801     -0.159971
-0.000725  -0.666938   -47.141135

COMB DL-G2-4 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.367079    5.211940     0.323419
 0.000676   0.834853    21.967677
 0.25000    0.367079    9.947586     0.323419
 0.000676   0.442017    36.786118
 0.50000    0.367079    21.237007    0.323419
 0.000676   0.085605    45.492380
 0.75000    0.367079    33.533035    0.323419
 0.000676   0.268920    37.952445
 1.00000    0.367079    44.319395    0.323419
 0.000676   0.512300    24.249636

COMB DL-G2-4 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.222687   -45.132407    -0.205289
-0.000768  -0.515282   -32.698030
 0.25000   -0.222687   -34.346206    -0.205289
-0.000768  -0.261925   -16.096701
 0.50000   -0.222687   -22.049882    -0.205289
-0.000768  -0.031459   -15.662013
 0.75000   -0.222687   -10.751585    -0.205289
-0.000768  -0.380182   -15.307235
 1.00000   -0.222687   -6.014474     -0.205289
-0.000768  -0.775786   -31.292117

COMB DL-G3-1 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.062142    0.263324     0.165715
 0.000736   0.429128    8.070085
 0.25000    0.062142    0.271472     0.165715
 0.000736   0.224435    8.269300
 0.50000    0.062142    0.290894     0.165715
 0.000736   0.029480    8.506282
 0.75000    0.062142    0.312049     0.165715
 0.000736   0.153988    8.828174
 1.00000    0.062142    0.330606     0.165715
 0.000736   0.307692    9.185261
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  4865

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.184156   -0.695779    -0.125831
-0.000214  -0.317085   -2.948846
 0.25000   -0.184156   -0.677222    -0.125831
-0.000214  -0.161758   -2.797103
 0.50000   -0.184156   -0.656067    -0.125831
-0.000214  -0.008171   -2.673047
 0.75000   -0.184156   -0.636638    -0.125831
-0.000214  -0.189248   -2.545577
 1.00000   -0.184156   -0.628479    -0.125831
-0.000214  -0.392520   -2.447711

COMB DL-G3-2 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.167104    12.411394    0.252126
 0.000873   0.661310    23.664759
 0.25000    0.167104    24.730185    0.252126
 0.000873   0.365546    61.823429
 0.50000    0.167104    54.097245    0.252126
 0.000873   0.093103    83.755741
 0.75000    0.167104    86.082785    0.252126
 0.000873   0.234857    62.647426
 1.00000    0.167104    114.141238   0.252126
 0.000873   0.429236    25.271776

COMB DL-G3-2 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.219996  -114.766653    -0.175265
-0.000301  -0.464067   -70.636678
 0.25000   -0.219996   -86.708613    -0.175265
-0.000301  -0.249371   -28.012097
 0.50000   -0.219996   -54.722304    -0.175265
-0.000301  -0.049092   -27.476232
 0.75000   -0.219996   -25.345159    -0.175265
-0.000301  -0.307783   -27.257991
 1.00000   -0.219996   -13.009551    -0.175265
-0.000301  -0.612938   -69.372893

COMB DL-G3-3 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.232772    9.189791     0.294682
 0.000967   0.771155    24.967709
 0.25000    0.232772    18.069586    0.294682
 0.000967   0.419256    52.630998
 0.50000    0.232772    39.238342    0.294682
 0.000967   0.097576    68.668661
 0.75000    0.232772    62.294586    0.294682
 0.000967   0.243875    53.745235
 1.00000    0.232772    82.520054    0.294682
 0.000967   0.452138    27.165809

COMB DL-G3-3 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.213890   -83.322835    -0.182440
-0.000528  -0.470705   -54.033980
 0.25000   -0.213890   -63.097664    -0.182440
-0.000528  -0.247134   -23.183366
 0.50000   -0.213890   -40.040867    -0.182440
-0.000528  -0.037856   -22.645481
 0.75000   -0.213890   -18.864841    -0.182440
-0.000528  -0.348796   -22.388267
 1.00000   -0.213890   -9.972924     -0.182440
-0.000528  -0.707313   -52.636912

COMB DL-G3-4 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.320808    7.690750     0.339481
 0.000825   0.879723    24.398852
 0.25000    0.320808    15.060027    0.339481
 0.000825   0.470095    47.450462
 0.50000    0.320808    32.627822    0.339481
 0.000825   0.095987    60.860582
 0.75000    0.320808    51.760209    0.339481
 0.000825   0.284712    48.613658
 1.00000    0.320808    68.546996    0.339481
 0.000825   0.536812    26.714517
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  4866

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.266347   -69.386482    -0.215898
-0.000710  -0.548210   -46.856830
 0.25000   -0.266347   -52.601762    -0.215898
-0.000710  -0.282850   -21.123586
 0.50000   -0.266347   -33.467095    -0.215898
-0.000710  -0.036841   -20.605392
 0.75000   -0.266347   -15.893267    -0.215898
-0.000710  -0.402513   -20.320022
 1.00000   -0.266347   -8.513930     -0.215898
-0.000710  -0.817064   -45.351437

COMB     DB ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.305808    10.766254    0.200719
 0.001115   0.517060    24.558616
 0.25000    0.305808    32.064944    0.200719
 0.001115   0.272623    79.341035
 0.50000    0.305808    60.149958    0.200719
 0.001115   0.084307    101.409987
 0.75000    0.305808    86.467092    0.200719
 0.001115   0.213816    80.349211
 1.00000    0.305808    114.053122   0.200719
 0.001115   0.411847    26.813529

COMB     DB ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.177322  -114.597368    -0.164887
-0.001004  -0.416374   -77.810997
 0.25000   -0.177322   -86.992835    -0.164887
-0.001004  -0.214571   -29.575176
 0.50000   -0.177322   -60.678449    -0.164887
-0.001004  -0.046307   -28.725825
 0.75000   -0.177322   -32.592530    -0.164887
-0.001004  -0.246400   -28.981914
 1.00000   -0.177322   -11.274568    -0.164887
-0.001004  -0.493556   -76.912882

COMB     DL ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.466128    12.411394    0.339481
 0.000967   0.879723    24.967709
 0.25000    0.466128    24.730185    0.339481
 0.000967   0.470095    61.823429
 0.50000    0.466128    54.097245    0.339481
 0.000967   0.097576    83.755741
 0.75000    0.466128    86.082785    0.339481
 0.000967   0.284712    62.647426
 1.00000    0.466128    114.141238   0.339481
 0.000967   0.536812    27.165809

COMB     DL ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.266347  -114.766653    -0.215898
-0.000864  -0.548210   -70.636678
 0.25000   -0.266347   -86.708613    -0.215898
-0.000864  -0.282850   -28.012097
 0.50000   -0.266347   -54.722304    -0.215898
-0.000864  -0.040092   -27.476232
 0.75000   -0.266347   -25.345159    -0.215898
-0.000864  -0.402513   -27.257991
 1.00000   -0.266347   -13.009551    -0.215898
-0.000864  -0.817064   -69.372893

COMB     CAR ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.466128    12.411394    0.339481
 0.001115   0.879723    24.967709
 0.25000    0.466128    32.064944    0.339481
 0.001115   0.470095    79.341035
 0.50000    0.466128    60.149958    0.339481
 0.001115   0.097576    101.409987
 0.75000    0.466128    86.467092    0.339481
 0.001115   0.284712    80.349211
 1.00000    0.466128    114.141238   0.339481
 0.001115   0.536812    27.165809
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  4867

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.266347  -114.766653    -0.215898
-0.001004  -0.548210   -77.810997
 0.25000   -0.266347   -86.992835    -0.215898
-0.001004  -0.282850   -29.575176
 0.50000   -0.266347   -60.678449    -0.215898
-0.001004  -0.046207   -28.725825
 0.75000   -0.266347   -32.592530    -0.215898
-0.001004  -0.402513   -28.981914
 1.00000   -0.266347   -13.009551    -0.215898
-0.001004  -0.817064   -76.912882

COMB     DESIGN ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.466128    12.411394    0.339481
 0.001115   0.879723    24.967709
 0.25000    0.466128    32.064944    0.339481
 0.001115   0.470095    79.341035
 0.50000    0.466128    60.149958    0.339481
 0.001115   0.097576    101.409987
 0.75000    0.466128    86.467092    0.339481
 0.001115   0.284712    80.349211
 1.00000    0.466128    114.141238   0.339481
 0.001115   0.536812    27.165809

COMB     DESIGN ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.266347  -114.766653    -0.215898
-0.001004  -0.548210   -77.810997
 0.25000   -0.266347   -86.992835    -0.215898
-0.001004  -0.282850   -29.575176
 0.50000   -0.266347   -60.678449    -0.215898
-0.001004  -0.046307   -28.725825
 0.75000   -0.266347   -32.592530    -0.215898
-0.001004  -0.402513   -28.981914
 1.00000   -0.266347   -13.009551    -0.215898
-0.001004  -0.817064   -76.912882

ELEM      476 ================== LENGTH
=     4.943656

COMB DB-G1-1 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.176997    0.080366     0.084856
 5.93E-06   0.209413    4.225999
 0.25000    0.176997    0.104466     0.084856
 5.93E-06   0.104528    4.320984
 0.50000    0.176997    0.136238     0.084856
 5.93E-06   0.017263    4.390691
 0.75000    0.176997    0.166007     0.084856
 5.93E-06   0.107358    4.421406
 1.00000    0.176997    0.197230     0.084856
 5.93E-06   0.213709    4.426143

COMB DB-G1-1 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.067354   -0.246471    -0.086051
-0.000176  -0.211733   -1.826351
 0.25000   -0.067354   -0.215245    -0.086051
-0.000176  -0.105376   -1.692158
 0.50000   -0.067354   -0.185475    -0.086051
-0.000176  -0.005046   -1.611689
 0.75000   -0.067354   -0.153704    -0.086051
-0.000176  -0.105234   -1.532520
 1.00000   -0.067354   -0.129602    -0.086051
-0.000176  -0.210123   -1.507088

COMB DB-G1-2 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.266755    0.569382     0.135752
 0.000163   0.335421    9.015309
 0.25000    0.266755    1.244174     0.135752
 0.000163   0.167803    10.668280
 0.50000    0.266755    2.133786     0.135752
 0.000163   0.034349    11.376955
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  4868

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST         P           V2          V3
      T          M2          M3
 0.75000    0.266755    2.967311     0.135752
 0.000163   0.172091    10.856310
 1.00000    0.266755    3.841566     0.135752
 0.000163   0.341833    9.394312

COMB DB-G1-2 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.131493   -3.954416    -0.137482
-0.000457  -0.338852   -5.488829
 0.25000   -0.131493   -3.080094    -0.137482
-0.000457  -0.168893   -3.821023
 0.50000   -0.131493   -2.246517    -0.137482
-0.000457  -0.010088   -3.657469
 0.75000   -0.131493   -1.356922    -0.137482
-0.000457  -0.168919   -3.530310
 1.00000   -0.131493   -0.682082    -0.137482
-0.000457  -0.336668   -4.907781

COMB DB-G1-3 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.322628    0.559648     0.137536
 0.000389   0.342563    14.281204
 0.25000    0.322628    0.581338     0.137536
 0.000389   0.178731    14.124813
 0.50000    0.322628    0.609932     0.137536
 0.000389   0.050262    14.120973
 0.75000    0.322628    0.638724     0.137536
 0.000389   0.187332    14.404064
 1.00000    0.322628    0.664825     0.137536
 0.000389   0.357218    14.842158

COMB DB-G1-3 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.112957   -0.840009    -0.139341
-0.000677  -0.342747   -4.378239
 0.25000   -0.112957   -0.811906    -0.139341
-0.000677  -0.170441   -4.128047
 0.50000   -0.112957   -0.785112    -0.139341
-0.000677  -0.012133   -3.926205
 0.75000   -0.112957   -0.756518    -0.139341
-0.000677  -0.170693   -3.725534
 1.00000   -0.112957   -0.734827    -0.139341
-0.000677  -0.340704   -3.573226

COMB DB-G1-4 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.318197    6.904239     0.159856
 0.000568   0.405704    24.167063
 0.25000    0.318197    19.683124    0.159856
 0.000568   0.216803    56.943300
 0.50000    0.318197    36.530149    0.159856
 0.000568   0.083506    69.892657
 0.75000    0.318197    52.315018    0.159856
 0.000568   0.225135    57.275560
 1.00000    0.318197    68.871228    0.159856
 0.000568   0.420496    24.818946

COMB DB-G1-4 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.139800   -69.086266    -0.162838
-0.000782  -0.411681   -48.971997
 0.25000   -0.139800   -52.528799    -0.162838
-0.000782  -0.211337   -19.918694
 0.50000   -0.139800   -36.742934    -0.162838
-0.000782  -0.034450   -19.352196
 0.75000   -0.139800   -19.896237    -0.162838
-0.000782  -0.208326   -19.474917
 1.00000   -0.139800   -7.116455     -0.162838
-0.000782  -0.405119   -48.091581

COMB DB-G2-1 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.099085    0.254796     0.045909
 0.000253   0.113251    5.897488
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  4869

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST         P           V2          V3
      T          M2          M3
 0.25000    0.099085    0.278895     0.045909
 0.000253   0.056487    5.827113
 0.50000    0.099085    0.310667     0.045909
 0.000253   0.020356    5.821009
 0.75000    0.099085    0.340436     0.045909
 0.000253   0.057853    5.945096
 1.00000    0.099085    0.371659     0.045909
 0.000253   0.115091    6.126721

COMB DB-G2-1 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.055771   -0.448192    -0.046361
-0.000313  -0.113994   -1.742301
 0.25000   -0.055771   -0.416966    -0.046361
-0.000313  -0.056751   -1.609878
 0.50000   -0.055771   -0.387195    -0.046361
-0.000313  -0.004661   -1.531178
 0.75000   -0.055771   -0.355424    -0.046361
-0.000313  -0.056982   -1.453778
 1.00000   -0.055771   -0.331323    -0.046361
-0.000313  -0.113742   -1.430114

COMB DB-G2-2 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.195134    8.974540     0.072902
 0.000427   0.194264    22.045859
 0.25000    0.195134    26.470948    0.072902
 0.000427   0.115911    67.029301
 0.50000    0.195134    49.537314    0.072902
 0.000427   0.075756    84.749686
 0.75000    0.195134    71.149411    0.072902
 0.000427   0.123309    67.260992
 1.00000    0.195134    93.817603    0.072902
 0.000427   0.207288    22.487359

COMB DB-G2-2 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.058427   -93.979338    -0.074501
-0.000495  -0.198978   -63.745185
 0.25000   -0.058427   -71.309425    -0.074501
-0.000495  -0.106796   -24.112211
 0.50000   -0.058427   -49.695963    -0.074501
-0.000495  -0.037860   -23.502984
 0.75000   -0.058427   -26.630048    -0.074501
-0.000495  -0.104906   -23.827095
 1.00000   -0.058427   -9.132412     -0.074501
-0.000495  -0.193954   -63.164131

COMB DB-G2-3 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.295603    8.161563     0.129756
 0.000354   0.332514    23.835851
 0.25000    0.295603    23.973399    0.129756
 0.000354   0.183109    64.087431
 0.50000    0.295603    44.818913    0.129756
 0.000354   0.082315    80.142777
 0.75000    0.295603    64.350176    0.129756
 0.000354   0.191777    64.377349
 1.00000    0.295603    84.835851    0.129756
 0.000354   0.347255    23.944122

COMB DB-G2-3 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.094051   -85.026242    -0.131996
-0.000605  -0.338929   -58.990756
 0.25000   -0.094051   -64.539011    -0.131996
-0.000605  -0.175658   -23.119461
 0.50000   -0.094051   -45.006515    -0.131996
-0.000605  -0.038182   -22.496053
 0.75000   -0.094051   -24.153809    -0.131996
-0.000605  -0.173984   -22.725428
 1.00000   -0.094051   -8.348463     -0.131996
-0.000605  -0.333438   -58.211526
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<                MOVING          LOAD                >
                                  4870

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.267345    5.823283     0.160291
 0.000719   0.405314    24.026975
 0.25000    0.267345    16.196219    0.160291
 0.000719   0.215427    50.153808
 0.50000    0.267345    29.876002    0.160291
 0.000719   0.081176    61.031600
 0.75000    0.267345    42.691440    0.160291
 0.000719   0.223139    50.891356
 1.00000    0.267345    56.133115    0.160291
 0.000719   0.419747    24.719799

COMB DB-G2-4 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.153515   -56.368621    -0.163361
-0.000872  -0.412258   -40.669216
 0.25000   -0.153515   -42.925925    -0.163361
-0.000872  -0.210215   -17.035982
 0.50000   -0.153515   -30.109679    -0.163361
-0.000872  -0.030451   -16.530669
 0.75000   -0.153515   -16.432163    -0.163361
-0.000872  -0.206486   -16.584910
 1.00000   -0.153515   -6.056498     -0.163361
-0.000872  -0.403989   -39.772849

COMB DB-G3-1 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.043075    0.382466     0.093381
 0.000608   0.232080    8.594402
 0.25000    0.043075    0.406566     0.093381
 0.000608   0.116692    8.514884
 0.50000    0.043075    0.438338     0.093381
 0.000608   0.026582    8.524580
 0.75000    0.043075    0.468106     0.093381
 0.000608   0.118015    8.669303
 1.00000    0.043075    0.499330     0.093381
 0.000608   0.236300    8.954900

COMB DB-G3-1 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.139007   -0.619028    -0.095718
-0.000479  -0.236971   -1.915335
 0.25000   -0.139007   -0.587803    -0.095718
-0.000479  -0.118674   -1.768353
 0.50000   -0.139007   -0.558032    -0.095718
-0.000479  -0.000522   -1.675594
 0.75000   -0.139007   -0.526261    -0.095718
-0.000479  -0.114399   -1.583135
 1.00000   -0.139007   -0.502159    -0.095718
-0.000479  -0.229641   -1.544941

COMB DB-G3-2 ------------------- MAX

REL DIST         P           V2          V3
      T          M2          M3
 0.00000    0.122922    10.914730    0.134103
 0.000770   0.350263    26.022079
 0.25000    0.122922    32.218896    0.134103
 0.000770   0.190215    80.885384
 0.50000    0.122922    60.305215    0.134103
 0.000770   0.087049    102.507416
 0.75000    0.122922    86.620771    0.134103
 0.000770   0.194480    81.172383
 1.00000    0.122922    114.222261   0.134103
 0.000770   0.360129    26.572215

COMB DB-G3-2 ------------------- MIN

REL DIST         P           V2          V3
      T          M2          M3
 0.00000   -0.167910  -114.420863    -0.139068
-0.000628  -0.360681   -76.916775
 0.25000   -0.167910   -86.817278    -0.139068
-0.000628  -0.188922   -28.697656
 0.50000   -0.167910   -60.500060    -0.139068
-0.000628  -0.044042   -27.969973
 0.75000   -0.167910   -32.414290    -0.139068
-0.000628  -0.181634   -28.391294
 1.00000   -0.167910   -11.108629    -0.139068
-0.000628  -0.344249   -76.315956
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.188293	7.878348	0.142302
0.000929	0.363616	26.801739	
0.25000	0.188293	22.497248	0.142302
0.000929	0.198761	64.262901	
0.50000	0.188293	41.770055	0.142302
0.000929	0.088575	79.058432	
0.75000	0.188293	59.827765	0.142302
0.000929	0.206147	64.625463	
1.00000	0.188293	78.767883	0.142302
0.000929	0.378644	27.510575	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.162113	-79.018137	-0.145789
-0.000840	-0.373498	-54.908414	
0.25000	-0.162113	-60.076582	-0.145789
-0.000840	-0.193260	-21.717866	
0.50000	-0.162113	-42.017731	-0.145789
-0.000840	-0.036077	-21.115901	
0.75000	-0.162113	-22.745301	-0.145789
-0.000840	-0.187186	-21.302381	
1.00000	-0.162113	-8.125375	-0.145789
-0.000840	-0.362196	-54.085611	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.242506	6.616585	0.167678
0.000896	0.424896	25.556998	
0.25000	0.242506	18.708627	0.167678
0.000896	0.226300	56.507212	
0.50000	0.242506	34.650155	0.167678
0.000896	0.085905	68.746792	
0.75000	0.242506	49.586614	0.167678
0.000896	0.233859	56.880710	
1.00000	0.242506	65.552998	0.167678
0.000896	0.439522	26.288992	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.180674	-65.506824	-0.171119
-0.000886	-0.433273	-46.617615	
0.25000	-0.180674	-49.839291	-0.171119
-0.000886	-0.221700	-19.108494	
0.50000	-0.180674	-34.901888	-0.171119
-0.000886	-0.033254	-18.555063	
0.75000	-0.180672	-18.986672	-0.171119
-0.000886	-0.216810	-18.653795	
1.00000	-0.180674	-6.867781	-0.171119
-0.000886	-0.423332	-45.714973	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.292222	0.091302	0.137778
4.88E-06	0.336013	5.555251	
0.25000	0.292222	0.099454	0.137778
4.88E-06	0.167451	5.594875	
0.50000	0.292222	0.118880	0.137778
4.88E-06	0.002615	5.626883	
0.75000	0.292222	0.140035	0.137778
4.88E-06	0.191305	5.630976	
1.00000	0.292222	0.158594	0.137778
4.88E-06	0.366303	5.628894	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.109398	-0.254480	-0.141313
-0.000168	-0.332836	-2.362166	
0.25000	-0.109398	-0.235928	-0.141313
-0.000168	-0.159761	-2.221104	
0.50000	-0.109398	-0.214772	-0.141313
-0.000168	-0.006310	-2.108079	
0.75000	-0.109398	-0.195345	-0.141313
-0.000168	-0.175569	-1.995016	
1.00000	-0.109398	-0.187187	-0.141313
-0.000168	-0.345923	-1.909933	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.407856	0.491568	0.231244
0.000139	0.570009	11.025932	
0.25000	0.407856	0.727971	0.231244
0.000139	0.286395	11.737376	
0.50000	0.407856	1.291313	0.231244
0.000139	0.043363	12.145329	
0.75000	0.407856	1.904823	0.231244
0.000139	0.297007	11.812943	
1.00000	0.407856	2.443020	0.231244
0.000139	0.566443	11.180176	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.198122	-2.626856	-0.218163
-0.000387	-0.515617	-5.419990	
0.25000	-0.198122	-2.088829	-0.218163
-0.000387	-0.247801	-4.404899	
0.50000	-0.198122	-1.475322	-0.218163
-0.000387	-0.011709	-4.006901	
0.75000	-0.198122	-0.911923	-0.218163
-0.000387	-0.292006	-3.998114	
1.00000	-0.198122	-0.675335	-0.218163
-0.000387	-0.577418	-4.606480	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.467695	0.572881	0.245441
0.000335	0.610139	16.733697	
0.25000	0.467695	0.580218	0.245441
0.000335	0.311050	16.604889	
0.50000	0.467695	0.597701	0.245441
0.000335	0.063257	16.571710	
0.75000	0.467695	0.616741	0.245441
0.000335	0.319537	16.740236	
1.00000	0.467695	0.633443	0.245441
0.000335	0.598039	16.998843	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181201	-0.902838	-0.226125
-0.000571	-0.528556	-5.765224	
0.25000	-0.181201	-0.886141	-0.226125
-0.000571	-0.251259	-5.461537	
0.50000	-0.181201	-0.867101	-0.226125
-0.000571	-0.015267	-5.184694	
0.75000	-0.181201	-0.849616	-0.226125
-0.000571	-0.307899	-4.906906	
1.00000	-0.181201	-0.842274	-0.226125
-0.000571	-0.610438	-4.654302	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.454758	6.294523	0.270614
0.000476	0.679226	24.097277	
0.25000	0.454758	11.998785	0.270614
0.000476	0.356070	41.472791	
0.50000	0.454758	25.591834	0.270614
0.000476	0.091488	51.369871	
0.75000	0.454758	40.395411	0.270614
0.000476	0.362955	41.648920	
1.00000	0.454758	53.381715	0.270614
0.000476	0.667102	24.429821	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206761	-53.691422	-0.253071
-0.000643	-0.606003	-36.418320	
0.25000	-0.206761	-40.709195	-0.253071
-0.000643	-0.295917	-16.519994	
0.50000	-0.206761	-25.905706	-0.253071
-0.000643	-0.028511	-16.092816	
0.75000	-0.206761	-12.311276	-0.253071
-0.000643	-0.345927	-15.896332	
1.00000	-0.206761	-6.602562	-0.253071
-0.000643	-0.678908	-35.168764	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.114177	0.253429	0.091007
0.000219	0.227651	6.544637	
0.25000	0.114177	0.261581	0.091007
0.000219	0.115726	6.565779	
0.50000	0.114177	0.281006	0.091007
0.000219	0.024778	6.576300	
0.75000	0.114177	0.302162	0.091007
0.000219	0.099498	6.620255	
1.00000	0.114177	0.320720	0.091007
0.000219	0.187646	6.655983	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.079713	-0.426354	-0.071735
-0.000256	-0.167768	-2.193928	
0.25000	-0.079713	-0.407801	-0.071735
-0.000256	-0.080049	-2.061571	
0.50000	-0.079713	-0.386646	-0.071735
-0.000256	-0.005726	-1.957066	
0.75000	-0.079713	-0.367913	-0.071735
-0.000256	-0.111603	-1.852851	
1.00000	-0.079713	-0.359060	-0.071735
-0.000256	-0.223453	-1.776891	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.229935	8.952923	0.137598
0.000353	0.351955	20.694195	
0.25000	0.229935	17.634651	0.137598
0.000353	0.196768	47.372085	
0.50000	0.229935	38.322892	0.137598
0.000353	0.080288	62.566759	
0.75000	0.229935	60.853524	0.137598
0.000353	0.184796	47.491719	
1.00000	0.229935	80.618316	0.137598
0.000353	0.314297	20.914987	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.081503	-80.832416	-0.115583
-0.000400	-0.283081	-50.117210	
0.25000	-0.081503	-61.073829	-0.115583
-0.000400	-0.142358	-20.089703	
0.50000	-0.081503	-38.543331	-0.115583
-0.000400	-0.029012	-19.695493	
0.75000	-0.081503	-17.852988	-0.115583
-0.000400	-0.183906	-19.653277	
1.00000	-0.081503	-9.164484	-0.115583
-0.000400	-0.352490	-49.241733	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.396576	8.161861	0.230661
0.000304	0.580263	23.256661	
0.25000	0.396576	16.014335	0.230661
0.000304	0.309128	47.427952	
0.50000	0.396576	34.743751	0.230661
0.000304	0.090779	61.204014	
0.75000	0.396576	55.135559	0.230661
0.000304	0.304774	47.567356	
1.00000	0.396576	73.024089	0.230661
0.000304	0.547039	23.517996	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.149730	-73.297310	-0.206510
-0.000509	-0.498055	-47.118335	
0.25000	-0.149730	-55.414398	-0.206510
-0.000509	-0.245300	-19.921400	
0.50000	-0.149730	-35.022710	-0.206510
-0.000509	-0.031394	-19.475018	
0.75000	-0.149730	-16.296493	-0.206510
-0.000509	-0.320032	-19.048524	
1.00000	-0.149730	-8.432785	-0.206510
-0.000509	-0.583032	-46.039186	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.365840	5.395567	0.271109
0.000587	0.683221	24.245594	
0.25000	0.365840	10.133834	0.271109
0.000587	0.357894	38.638987	
0.50000	0.365840	21.424951	0.271109
0.000587	0.090395	46.861841	
0.75000	0.365840	33.721599	0.271109
0.000587	0.350220	38.843337	
1.00000	0.365840	44.508722	0.271109
0.000587	0.646286	24.635527	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.220200	-44.835652	-0.246840
-0.000688	-0.591907	-31.311835	
0.25000	-0.220200	-34.051916	-0.246840
-0.000688	-0.289341	-14.733447	
0.50000	-0.220200	-21.755342	-0.246840
-0.000688	-0.026847	-14.328321	
0.75000	-0.220200	-10.463077	-0.246840
-0.000688	-0.340240	-14.114806	
1.00000	-0.220200	-5.721112	-0.246840
-0.000688	-0.673465	-30.073097	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.054489	0.345817	0.139910
0.000505	0.354299	9.151882	
0.25000	0.054489	0.353968	0.139910
0.000505	0.182105	9.144495	
0.50000	0.054489	0.373394	0.139910
0.000505	0.031547	9.174790	
0.75000	0.054489	0.394550	0.139910
0.000505	0.172149	9.284822	
1.00000	0.054489	0.413108	0.139910
0.000505	0.332778	9.430502	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192183	-0.568007	-0.130871
-0.000391	-0.316361	-2.417671	
0.25000	-0.192183	-0.549455	-0.130871
-0.000391	-0.155618	-2.279816	
0.50000	-0.192183	-0.528299	-0.130871
-0.000391	-0.006696	-2.167272	
0.75000	-0.192183	-0.508872	-0.130871
-0.000391	-0.166626	-2.052852	
1.00000	-0.192183	-0.500714	-0.130871
-0.000391	-0.338865	-1.968367	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.153807	12.551941	0.202991
0.000618	0.522451	25.235254	
0.25000	0.153807	24.877549	0.202991
0.000618	0.288226	63.168352	
0.50000	0.153807	54.249023	0.202991
0.000618	0.096309	84.771573	
0.75000	0.153807	86.236173	0.202991
0.000618	0.281048	63.366977	
1.00000	0.153807	114.296612	0.202991
0.000618	0.503266	25.600638	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.226088	-114.546227	-0.193606
-0.000493	-0.486876	-69.336001	
0.25000	-0.226088	-86.494599	-0.193606
-0.000493	-0.250094	-26.796155	
0.50000	-0.226088	-54.507639	-0.193606
-0.000493	-0.036837	-26.346170	
0.75000	-0.226088	-25.133180	-0.193606
-0.000493	-0.264589	-26.356877	
1.00000	-0.226088	-12.797952	-0.193606
-0.000493	-0.516069	-68.454697	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.225086	9.375816	0.235503
0.000759	0.601159	27.133862	
0.25000	0.225086	18.260525	0.235503
0.000759	0.324872	54.422454	
0.50000	0.225086	39.432463	0.235503
0.000759	0.101930	70.011690	
0.75000	0.225086	62.489867	0.235503
0.000759	0.309405	54.657912	
1.00000	0.225086	82.716766	0.235503
0.000759	0.557422	27.581988	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.222127	-83.039571	-0.212809
-0.000673	-0.521163	-52.616701	
0.25000	-0.222127	-62.819023	-0.212809
-0.000673	-0.261935	-21.825410	
0.50000	-0.222127	-39.761756	-0.212809
-0.000673	-0.033521	-21.359604	
0.75000	-0.222127	-18.587666	-0.212809
-0.000673	-0.299351	-21.255623	
1.00000	-0.222127	-9.696023	-0.212809
-0.000673	-0.588438	-51.474214	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.314249	7.879818	0.282592
0.000725	0.715025	26.698333	
0.25000	0.314249	15.253173	0.282592
0.000725	0.378480	49.335665	
0.50000	0.314249	32.823608	0.282592
0.000725	0.100746	62.268105	
0.75000	0.314249	51.958778	0.282592
0.000725	0.361453	49.560579	
1.00000	0.314249	68.744933	0.282592
0.000725	0.662846	27.132028	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.266139	-69.084349	-0.254087
-0.000709	-0.616087	-45.354253	
0.25000	-0.266139	-52.303465	-0.254087
-0.000709	-0.304812	-19.720148	
0.50000	-0.266139	-33.166408	-0.254087
-0.000709	-0.032180	-19.252626	
0.75000	-0.266139	-15.596187	-0.254087
-0.000709	-0.356914	-19.085334	
1.00000	-0.266139	-8.217077	-0.254087
-0.000709	-0.704129	-44.020019	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.322628	10.914730	0.167678
0.000929	0.424896	26.801739	
0.25000	0.322628	32.218896	0.167678
0.000929	0.226300	80.885384	
0.50000	0.322628	60.305215	0.167678
0.000929	0.088575	102.507416	
0.75000	0.322628	86.620771	0.167678
0.000929	0.233859	81.172383	
1.00000	0.322628	114.222261	0.167678
0.000929	0.439522	27.510575	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.180674	-114.420863	-0.171119
-0.000886	-0.433273	-76.916775	
0.25000	-0.180674	-86.817278	-0.171119
-0.000886	-0.221700	-28.697656	
0.50000	-0.180674	-60.500060	-0.171119
-0.000886	-0.044042	-27.969973	
0.75000	-0.180674	-32.414290	-0.171119
-0.000886	-0.216810	-28.391294	
1.00000	-0.180674	-11.108629	-0.171119
-0.000886	-0.423332	-76.315956	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.467695	12.551941	0.282592
0.000759	0.715025	27.133862	
0.25000	0.467695	24.877549	0.282592
0.000759	0.378480	63.168352	
0.50000	0.467695	54.249023	0.282592
0.000759	0.101930	84.771573	
0.75000	0.467695	86.236173	0.282592
0.000759	0.362955	63.366977	
1.00000	0.467695	114.296612	0.282592
0.000759	0.667102	27.581988	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.266139	-114.546227	-0.254087
-0.000709	-0.616087	-69.336001	
0.25000	-0.266139	-86.494599	-0.254087
-0.000709	-0.304812	-26.796155	
0.50000	-0.266139	-54.507639	-0.254087
-0.000709	-0.036837	-26.346170	
0.75000	-0.266139	-25.133180	-0.254087
-0.000709	-0.356914	-26.356877	
1.00000	-0.266139	-12.797952	-0.254087
-0.000709	-0.704129	-68.454697	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.467695	12.551941	0.282592
0.000929	0.715025	27.133862	
0.25000	0.467695	32.218896	0.282592
0.000929	0.378480	80.885384	
0.50000	0.467695	60.305215	0.282592
0.000929	0.101930	102.507416	
0.75000	0.467695	86.620771	0.282592
0.000929	0.362955	81.172383	
1.00000	0.467695	114.296612	0.282592
0.000929	0.667102	27.581988	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.266139	-114.546227	-0.254087
-0.000886	-0.616087	-76.916775	
0.25000	-0.266139	-86.817278	-0.254087
-0.000886	-0.304812	-28.697656	
0.50000	-0.266139	-60.500060	-0.254087
-0.000886	-0.044042	-27.969973	
0.75000	-0.266139	-32.414290	-0.254087
-0.000886	-0.356914	-28.391294	
1.00000	-0.266139	-12.797952	-0.254087
-0.000886	-0.704129	-76.315956	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.467695	12.551941	0.282592
0.000929	0.715025	27.133862	
0.25000	0.467695	32.218896	0.282592
0.000929	0.378480	80.885384	
0.50000	0.467695	60.305215	0.282592
0.000929	0.101930	102.507416	
0.75000	0.467695	86.620771	0.282592
0.000929	0.362955	81.172383	
1.00000	0.467695	114.296612	0.282592
0.000929	0.667102	27.581988	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.266139	-114.546227	-0.254087
-0.000886	-0.616087	-76.916775	
0.25000	-0.266139	-86.817278	-0.254087
-0.000886	-0.304812	-28.697656	
0.50000	-0.266139	-60.500060	-0.254087
-0.000886	-0.044042	-27.969973	
0.75000	-0.266139	-32.414290	-0.254087
-0.000886	-0.356914	-28.391294	
1.00000	-0.266139	-12.797952	-0.254087
-0.000886	-0.704129	-76.315956	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 477 ========== LENGTH = 4.942285

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.184989	0.151307	0.085350
0.000350	0.210673	4.419022	
0.25000	0.184989	0.175461	0.085350
0.000350	0.105209	4.375670	
0.50000	0.184989	0.207230	0.085350
0.000350	0.016901	4.304747	
0.75000	0.184989	0.236917	0.085350
0.000350	0.109841	4.193669	
1.00000	0.184989	0.268201	0.085350
0.000350	0.218601	4.053404	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.055429	-0.204409	-0.088034
-5.14E-06	-0.216540	-1.516386	
0.25000	-0.055429	-0.173210	-0.088034
-5.14E-06	-0.107896	-1.375552	
0.50000	-0.055429	-0.143443	-0.088034
-5.14E-06	-0.003909	-1.288628	
0.75000	-0.055429	-0.111675	-0.088034
-5.14E-06	-0.105715	-1.202975	
1.00000	-0.055429	-0.087573	-0.088034
-5.14E-06	-0.211187	-1.170855	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.279618	0.700739	0.136274
0.000661	0.336701	9.388340	
0.25000	0.279618	1.377037	0.136274
0.000661	0.168521	10.800729	
0.50000	0.279618	2.266562	0.136274
0.000661	0.033833	11.279007	
0.75000	0.279618	3.100041	0.136274
0.000661	0.185105	10.477843	
1.00000	0.279618	3.973771	0.136274
0.000661	0.358455	8.726373	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.096373	-3.844058	-0.142532
-0.000111	-0.348811	-4.923368	
0.25000	-0.096373	-2.970468	-0.142532
-0.000111	-0.173402	-3.244924	
0.50000	-0.096373	-2.136998	-0.142532
-0.000111	-0.008104	-3.075938	
0.75000	-0.096373	-1.247488	-0.142532
-0.000111	-0.169425	-2.942554	
1.00000	-0.096373	-0.572627	-0.142532
-0.000111	-0.337813	-4.308091	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335990	0.736971	0.142553

0.000844	0.347433	14.860592	
0.25000	0.335990	0.758709	0.142553
0.000844	0.171230	14.345163	
0.50000	0.335990	0.787301	0.142553
0.000844	0.049664	14.007552	
0.75000	0.335990	0.814091	0.142553
0.000844	0.240559	13.907128	
1.00000	0.335990	0.842176	0.142553
0.000844	0.457580	13.971939	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.088353	-0.674722	-0.177467
-0.000365	-0.421694	-3.594038	
0.25000	-0.088353	-0.646642	-0.177467
-0.000365	-0.202871	-3.333814	
0.50000	-0.088353	-0.619852	-0.177467
-0.000365	-0.009462	-3.122109	

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.088353	-0.591261	-0.177467
-0.000365	-0.180816	-2.911548	
1.00000	-0.088353	-0.569569	-0.177467
-0.000365	-0.356998	-2.749166	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.321641	7.072746	0.155907
0.000853	0.388790	24.859332	
0.25000	0.321641	19.880138	0.155907
0.000853	0.200043	57.274389	
0.50000	0.321641	36.725520	0.155907
0.000853	0.083167	69.857800	
0.75000	0.321641	52.509525	0.155907
0.000853	0.280000	56.680158	
1.00000	0.321641	69.055787	0.155907
0.000853	0.522276	23.955612	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.126740	-68.883165	-0.201460
-0.000591	-0.494362	-48.092027	
0.25000	-0.126740	-52.339554	-0.201460
-0.000591	-0.246216	-19.025330	
0.50000	-0.126740	-36.555719	-0.201460
-0.000591	-0.031816	-18.544011	
0.75000	-0.126740	-19.710630	-0.201460
-0.000591	-0.208133	-18.736885	
1.00000	-0.126740	-6.930439	-0.201460
-0.000591	-0.400776	-47.315587	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102413	0.323708	0.046313
0.000353	0.114275	6.135081	
0.25000	0.102413	0.347962	0.046313
0.000353	0.057037	5.938735	
0.50000	0.102413	0.379631	0.046313
0.000353	0.020114	5.808402	
0.75000	0.102413	0.409398	0.046313
0.000353	0.085606	5.758871	
1.00000	0.102413	0.440802	0.046313
0.000353	0.155482	5.767336	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.036473	-0.369574	-0.058480
-0.000212	-0.135526	-1.438133	
0.25000	-0.036473	-0.338374	-0.058480
-0.000212	-0.063550	-1.302570	
0.50000	-0.036473	-0.308607	-0.058480
-0.000212	-0.003661	-1.220916	
0.75000	-0.036473	-0.276839	-0.058480
-0.000212	-0.057407	-1.140534	
1.00000	-0.036473	-0.252737	-0.058480
-0.000212	-0.114653	-1.113685	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.192985	9.070689	0.067813
0.000513	0.172434	22.536215	
0.25000	0.192985	26.606128	0.067813
0.000513	0.093961	67.304763	
0.50000	0.192985	49.670243	0.067813
0.000513	0.075714	84.785023	
0.75000	0.192985	71.281158	0.067813
0.000513	0.193157	66.801676	
1.00000	0.192985	93.935729	0.067813
0.000513	0.339832	21.934903	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.042426	-93.817946	-0.124482
-0.000399	-0.304069	-63.149353	

FRAME ELEMENT INTERNAL FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-0.042426	-71.167004	-0.124482
-0.000399	-0.151314	-23.514209	
0.50000	-0.042426	-49.556322	-0.124482
-0.000399	-0.036332	-23.017178	
0.75000	-0.042426	-26.492607	-0.124482
-0.000399	-0.104964	-23.443228	
1.00000	-0.042426	-8.994412	-0.124482
-0.000399	-0.188771	-62.734176	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.301326	8.305049	0.125369
0.000730	0.313967	23.983680	
0.25000	0.301326	24.152159	0.125369
0.000730	0.164073	64.380335	
0.50000	0.301326	44.995638	0.125369
0.000730	0.081953	80.115191	
0.75000	0.301326	64.525832	0.125369
0.000730	0.256150	63.796438	
1.00000	0.301326	84.999199	0.125369
0.000730	0.470771	23.177715	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074004	-84.826940	-0.178546
-0.000336	-0.437301	-58.205656	
0.25000	-0.074004	-64.356853	-0.178546
-0.000336	-0.217582	-22.318145	
0.50000	-0.074004	-44.826868	-0.178546
-0.000336	-0.035899	-21.800490	
0.75000	-0.074004	-23.983751	-0.178546
-0.000336	-0.174231	-22.117041	
1.00000	-0.074004	-8.170299	-0.178546
-0.000336	-0.329188	-57.556539	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.268937	5.998246	0.156985
0.000870	0.390275	24.761042	
0.25000	0.268937	16.396326	0.156985
0.000870	0.199431	50.889039	
0.50000	0.268937	30.072775	0.156985
0.000870	0.080882	61.020679	
0.75000	0.268937	42.857511	0.156985
0.000870	0.273955	50.335994	
1.00000	0.268937	56.321110	0.156985
0.000870	0.516886	23.869437	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.153568	-56.144421	-0.200065
-0.000773	-0.489072	-39.776495	
0.25000	-0.153568	-42.712974	-0.200065
-0.000773	-0.242531	-16.134227	
0.50000	-0.153568	-29.898375	-0.200065
-0.000773	-0.027762	-15.699889	
0.75000	-0.153568	-16.222164	-0.200065
-0.000773	-0.206952	-15.812916	
1.00000	-0.153568	-5.846168	-0.200065
-0.000773	-0.400963	-38.971863	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.036227	0.458379	0.091403
0.000348	0.226549	8.957105	
0.25000	0.036227	0.482532	0.091403
0.000348	0.110600	8.711405	
0.50000	0.036227	0.514301	0.091403
0.000348	0.026615	8.552154	
0.75000	0.036227	0.544068	0.091403
0.000348	0.117405	8.541410	
1.00000	0.036227	0.575273	0.091403
0.000348	0.234908	8.626903	

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.168676	-0.520680	-0.095114
-0.000713	-0.235225	-1.551156	
0.25000	-0.168676	-0.489480	-0.095114
-0.000713	-0.117707	-1.409243	
0.50000	-0.168676	-0.459713	-0.095114
-0.000713	-0.003934	-1.321255	
0.75000	-0.168676	-0.427945	-0.095114
-0.000713	-0.112273	-1.234541	
1.00000	-0.168676	-0.403843	-0.095114
-0.000713	-0.225227	-1.201360	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.105283	11.003037	0.121117
0.000481	0.311192	26.612868	
0.25000	0.105283	32.354729	0.121117
0.000481	0.168065	81.258365	
0.50000	0.105283	60.438307	0.121117
0.000481	0.087305	102.622646	
0.75000	0.105283	86.752424	0.121117
0.000481	0.220114	80.751610	
1.00000	0.105283	114.337328	0.121117
0.000481	0.410519	26.104054	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.197344	-114.245923	-0.158814
-0.000899	-0.406576	-76.292308	
0.25000	-0.197344	-86.665437	-0.158814
-0.000899	-0.211118	-28.067652	
0.50000	-0.197344	-60.351604	-0.158814
-0.000899	-0.042612	-27.498770	
0.75000	-0.197344	-32.268513	-0.158814
-0.000899	-0.169662	-28.053871	
1.00000	-0.197344	-10.962170	-0.158814
-0.000899	-0.319306	-75.932081	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.178573	8.026518	0.135784
0.000724	0.340019	27.559199	
0.25000	0.178573	22.678030	0.135784
0.000724	0.177098	64.680794	
0.50000	0.178573	41.948956	0.135784
0.000724	0.088576	79.117946	
0.75000	0.178573	60.005679	0.135784
0.000724	0.264537	64.113460	
1.00000	0.178573	78.934416	0.135784
0.000724	0.493219	26.779823	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.188398	-78.797627	-0.188711
-0.001033	-0.462484	-54.078203	
0.25000	-0.188398	-59.871922	-0.188711
-0.001033	-0.230255	-20.883301	
0.50000	-0.188398	-41.815393	-0.188711
-0.001033	-0.033825	-20.389748	
0.75000	-0.188398	-22.544802	-0.188711
-0.001033	-0.185018	-20.667470	
1.00000	-0.188398	-7.924409	-0.188711
-0.001033	-0.352825	-53.418273	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.240200	6.790120	0.162856
0.000864	0.406021	26.327320	
0.25000	0.240200	18.909137	0.162856
0.000864	0.208474	56.900880	
0.50000	0.240200	34.849110	0.162856
0.000864	0.085743	68.766847	
0.75000	0.240200	49.784752	0.162856
0.000864	0.285093	56.321146	
1.00000	0.240200	65.441682	0.162856
0.000864	0.536891	25.441741	

FRAME ELEMENT INTERNAL FORCES

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.189866	-65.267749	-0.207797
-0.000903	-0.510001	-45.715261	
0.25000	-0.189866	-49.613327	-0.207797
-0.000903	-0.253981	-18.198842	
0.50000	-0.189866	-34.677845	-0.207797
-0.000903	-0.030628	-17.731387	
0.75000	-0.189866	-18.738150	-0.207797
-0.000903	-0.215608	-17.901894	
1.00000	-0.189866	-6.644872	-0.207797
-0.000903	-0.416857	-44.932552	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.276483	0.179794	0.149132
0.000299	0.364205	5.649378	
0.25000	0.276483	0.187947	0.149132
0.000299	0.179832	5.511801	
0.50000	0.276483	0.207372	0.149132
0.000299	0.021976	5.366980	
0.75000	0.276483	0.228525	0.149132
0.000299	0.246655	5.195642	
1.00000	0.276483	0.247082	0.149132
0.000299	0.477822	5.017310	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.094953	-0.188991	-0.186841
-4.42E-06	-0.445201	-1.950742	
0.25000	-0.094953	-0.170436	-0.186841
-4.42E-06	-0.214099	-1.801694	
0.50000	-0.094953	-0.149285	-0.186841
-4.42E-06	-0.004697	-1.680659	
0.75000	-0.094953	-0.129860	-0.186841
-4.42E-06	-0.188343	-1.559843	
1.00000	-0.094953	-0.121708	-0.186841
-4.42E-06	-0.372747	-1.466864	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.397592	0.644522	0.245605
0.000543	0.600106	11.217575	
0.25000	0.397592	0.880952	0.245605
0.000543	0.297101	11.609622	
0.50000	0.397592	1.144271	0.245605
0.000543	0.042384	11.736233	
0.75000	0.397592	2.057703	0.245605
0.000543	0.395134	11.102788	
1.00000	0.397592	2.595867	0.245605
0.000543	0.757929	10.170287	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.163550	-2.494586	-0.294184
-0.000109	-0.696692	-4.672547	
0.25000	-0.163550	-1.956488	-0.294184
-0.000109	-0.333028	-3.644857	
0.50000	-0.163550	-1.343104	-0.294184
-0.000109	-0.008935	-3.427676	
0.75000	-0.163550	-0.779772	-0.294184
-0.000109	-0.310670	-3.218548	
1.00000	-0.163550	-0.543374	-0.294184
-0.000109	-0.614196	-3.814254	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.462740	0.776280	0.260291
0.000701	0.633549	17.065960	
0.25000	0.462740	0.783617	0.260291
0.000701	0.312680	16.530698	
0.50000	0.462740	0.801100	0.260291
0.000701	0.061903	16.077976	
0.75000	0.462740	0.820137	0.260291
0.000701	0.463163	15.824181	
1.00000	0.462740	0.836839	0.260291
0.000701	0.877118	15.668857	

FRAME ELEMENT INTERNAL FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.153456	-0.718302	-0.335414
-0.000323	-0.781633	-4.724302	
0.25000	-0.153456	-0.701602	-0.335414
-0.000323	-0.367603	-4.409192	
0.50000	-0.153456	-0.682566	-0.335414
-0.000323	-0.011592	-4.119342	
0.75000	-0.153456	-0.665083	-0.335414
-0.000323	-0.332902	-3.829807	
1.00000	-0.153456	-0.657747	-0.335414
-0.000323	-0.654509	-3.564696	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.443172	6.507738	0.277235
0.000710	0.676525	24.493116	
0.25000	0.443172	12.212645	0.277235
0.000710	0.154079	41.429366	
0.50000	0.443172	25.805152	0.277235
0.000710	0.090124	50.873067	
0.75000	0.443172	40.606822	0.277235
0.000710	0.512590	40.687806	
1.00000	0.443172	53.592361	0.277235
0.000710	0.954849	23.018692	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.188925	-53.461823	-0.364484
-0.000505	-0.858858	-35.202207	
0.25000	-0.188925	-40.477891	-0.364484
-0.000505	-0.411367	-15.294918	
0.50000	-0.188925	-25.677357	-0.364484
-0.000505	-0.024558	-14.939927	
0.75000	-0.188925	-12.084565	-0.364484
-0.000505	-0.185554	-14.777669	
1.00000	-0.188925	-6.380435	-0.364484
-0.000505	-0.706055	-34.039434	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.122322	0.325956	0.091995
0.000283	0.224942	6.679857	
0.25000	0.122322	0.334109	0.091995
0.000283	0.111677	6.534893	
0.50000	0.122322	0.353534	0.091995
0.000283	0.024337	6.414675	
0.75000	0.122322	0.374687	0.091995
0.000283	0.152388	6.312434	
1.00000	0.122322	0.393244	0.091995
0.000283	0.284332	6.204490	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.061022	-0.350946	-0.107292
-0.000190	-0.246636	-1.801179	
0.25000	-0.061022	-0.332391	-0.107292
-0.000190	-0.114163	-1.665325	
0.50000	-0.061022	-0.311240	-0.107292
-0.000190	-0.004375	-1.557074	
0.75000	-0.061022	-0.291815	-0.107292
-0.000190	-0.116722	-1.449270	
1.00000	-0.061022	-0.283663	-0.107292
-0.000190	-0.230158	-1.368947	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.232615	9.085136	0.134957
0.000413	0.328134	20.968035	
0.25000	0.232615	17.767843	0.134957
0.000413	0.176571	47.355593	
0.50000	0.232615	38.455263	0.134957
0.000413	0.079609	62.274561	
0.75000	0.232615	60.982992	0.134957
0.000413	0.293571	46.907193	
1.00000	0.232615	80.746620	0.134957
0.000413	0.521956	20.027064	

FRAME ELEMENT INTERNAL FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.066769	-80.657494	-0.193924
-0.000341	-0.454539	-49.245116	
0.25000	-0.066769	-60.896311	-0.193924
-0.000341	-0.218400	-19.211681	
0.50000	-0.066769	-38.370311	-0.193924
-0.000341	-0.026575	-18.935923	
0.75000	-0.066769	-17.682460	-0.193924
-0.000341	-0.190803	-18.954043	
1.00000	-0.066769	-9.000932	-0.193924
-0.000341	-0.357134	-48.534547	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.394934	8.349953	0.235734
0.000607	0.574311	23.581627	
0.25000	0.394934	16.208415	0.235734
0.000607	0.296658	47.348367	
0.50000	0.394934	34.931986	0.235734
0.000607	0.089761	60.742808	
0.75000	0.394934	55.321168	0.235734
0.000607	0.446018	46.714306	
1.00000	0.394934	73.208643	0.235734
0.000607	0.821793	22.261032	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.124997	-73.078147	-0.311777
-0.000297	-0.734846	-46.073460	
0.25000	-0.124997	-55.192885	-0.311777
-0.000297	-0.352572	-18.796070	
0.50000	-0.124997	-34.805268	-0.311777
-0.000297	-0.027747	-18.451458	
0.75000	-0.124997	-16.081306	-0.311777
-0.000297	-0.316200	-18.372779	
1.00000	-0.124997	-8.223912	-0.311777
-0.000297	-0.607238	-45.050313	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.362275	5.608656	0.271988
0.000713	0.664923	24.688056	
0.25000	0.362275	10.347458	0.271988
0.000713	0.337918	38.634936	
0.50000	0.362275	21.638127	0.271988
0.000713	0.089261	46.398211	
0.75000	0.362275	33.933190	0.271988
0.000713	0.494418	37.909873	
1.00000	0.362275	44.719677	0.271988
0.000713	0.923362	23.254525	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.211433	-44.595405	-0.351658
-0.000648	-0.825896	-30.092613	
0.25000	-0.211433	-33.810252	-0.351658
-0.000648	-0.394012	-13.508591	
0.50000	-0.211433	-21.516132	-0.351658
-0.000648	-0.022563	-13.165642	
0.75000	-0.211433	-5.225228	-0.351658
-0.000648	-0.354784	-12.983124	
1.00000	-0.211433	-5.487070	-0.351658
-0.000648	-0.690839	-28.934390	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.045914	0.429922	0.132616
0.000290	0.328060	9.409880	
0.25000	0.045914	0.438075	0.132616
0.000290	0.164947	9.208838	
0.50000	0.045914	0.457199	0.132616
0.000290	0.031469	9.041521	
0.75000	0.045914	0.478652	0.132616
0.000290	0.212806	8.950893	
1.00000	0.045914	0.497210	0.132616
0.000290	0.406626	8.894384	

FRAME ELEMENT INTERNAL FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.208274	-0.462484	-0.157360
-0.000611	-0.372921	-1.943834	
0.25000	-0.208274	-0.443929	-0.157360
-0.000611	-0.179703	-1.809670	
0.50000	-0.208274	-0.422777	-0.157360
-0.000611	-0.004937	-1.703174	
0.75000	-0.208274	-0.403352	-0.157360
-0.000611	-0.183139	-1.597246	
1.00000	-0.208274	-0.395201	-0.157360
-0.000611	-0.328685	-1.519152	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.133513	12.682220	0.188008
0.000375	0.463708	25.597321	
0.25000	0.133513	25.009218	0.188008
0.000375	0.251956	63.225173	
0.50000	0.133513	54.379526	0.188008
0.000375	0.095532	84.523337	
0.75000	0.133513	86.362556	0.188008
0.000375	0.364251	62.801680	
1.00000	0.133513	114.421340	0.188008
0.000375	0.658978	24.707676	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.240785	-114.335838	-0.251152
-0.000740	-0.608376	-68.392590	
0.25000	-0.240785	-86.280525	-0.251152
-0.000740	-0.303530	-25.856825	
0.50000	-0.240785	-54.299951	-0.251152
-0.000740	-0.034194	-25.668185	
0.75000	-0.240785	-24.929030	-0.251152
-0.000740	-0.257931	-25.696893	
1.00000	-0.240785	-12.603706	-0.251152
-0.000740	-0.490085	-67.796541	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.217260	9.559303	0.224126
0.000580	0.551173	27.606117	
0.25000	0.217260	18.445014	0.224126
0.000580	0.290016	54.482076	

0.50000	0.217260	39.616111	0.224126
0.000580	0.100877	69.655273	
0.75000	0.217260	62.670545	0.224126
0.000580	0.435963	53.878619	
1.00000	0.217260	82.896252	0.224126
0.000580	0.796560	26.364252	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.234229	-82.793649	-0.301117
-0.000868	-0.711336	-51.441394	
0.25000	-0.234229	-62.570444	-0.301117
-0.000868	-0.343787	-20.652234	
0.50000	-0.234229	-39.517780	-0.301117
-0.000868	-0.029990	-20.316157	
0.75000	-0.234229	-18.346241	-0.301117
-0.000868	-0.309977	-20.281027	
1.00000	-0.234229	-9.461737	-0.301117
-0.000868	-0.577572	-50.499152	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.308477	8.089163	0.277219
0.000690	0.680148	27.165345	
0.25000	0.308477	15.463349	0.277219
0.000690	0.350732	49.339104	
0.50000	0.308477	33.033088	0.277219
0.000690	0.099554	61.824835	
0.75000	0.308477	52.165793	0.277219
0.000690	0.501958	48.658941	
1.00000	0.308477	68.950959	0.277219
0.000690	0.930128	25.757696	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.259605	-68.824004	-0.354169
-0.000750	-0.836862	-44.015139	
0.25000	-0.259605	-52.040915	-0.354169
-0.000750	-0.402682	-18.380950	
0.50000	-0.259605	-32.909678	-0.354169
-0.000750	-0.028059	-18.019552	
0.75000	-0.259605	-15.339574	-0.354169
-0.000750	-0.364916	-17.875480	
1.00000	-0.259605	-7.966389	-0.354169
-0.000750	-0.707271	-42.873037	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335990	11.003037	0.162856
0.000870	0.406021	27.559199	
0.25000	0.335990	32.354729	0.162856
0.000870	0.208474	81.258365	
0.50000	0.335990	60.438307	0.162856
0.000870	0.088576	102.620646	
0.75000	0.335990	86.752424	0.162856
0.000870	0.285093	87.751610	
1.00000	0.335990	114.337328	0.162856
0.000870	0.536891	26.779823	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.197344	-114.245923	-0.207797
-0.001033	-0.510001	-76.292308	
0.25000	-0.197344	-86.665437	-0.207797
-0.001033	-0.253981	-28.067652	
0.50000	-0.197344	-60.351604	-0.207797
-0.001033	-0.042612	-27.498770	
0.75000	-0.197344	-32.268513	-0.207797
-0.001033	-0.215608	-28.053871	
1.00000	-0.197344	-10.962170	-0.207797
-0.001033	-0.416857	-75.932081	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.462740	12.682220	0.277235
0.000713	0.680148	27.606117	
0.25000	0.462740	25.009218	0.277235
0.000713	0.350732	63.225173	
0.50000	0.462740	54.379526	0.277235
0.000713	0.100877	84.523337	
0.75000	0.462740	86.362556	0.277235
0.000713	0.512590	62.801680	
1.00000	0.462740	114.421340	0.277235
0.000713	0.954849	26.364252	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.259605	-114.335838	-0.364484
-0.000868	-0.858858	-68.392590	
0.25000	-0.259605	-86.280525	-0.364484
-0.000868	-0.411367	-28.067652	
0.50000	-0.259605	-54.299951	-0.364484
-0.000868	-0.034194	-25.568185	
0.75000	-0.259605	-24.929030	-0.364484
-0.000868	-0.364916	-25.696893	
1.00000	-0.259605	-12.603706	-0.364484
-0.000868	-0.707271	-67.796541	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.462740	12.682220	0.277235
0.000870	0.680148	27.606117	
0.25000	0.462740	32.354729	0.277235
0.000870	0.350732	81.258365	
0.50000	0.462740	60.438307	0.277235
0.000870	0.100877	102.620646	
0.75000	0.462740	86.752424	0.277235
0.000870	0.512590	80.751610	
1.00000	0.462740	114.421340	0.277235
0.000870	0.954849	26.779823	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.259605	-114.335838	-0.364484
-0.001033	-0.858858	-76.292308	
0.25000	-0.259605	-86.665437	-0.364484
-0.001033	-0.411367	-28.067652	
0.50000	-0.259605	-60.351604	-0.364484
-0.001033	-0.042612	-27.498770	
0.75000	-0.259605	-32.268513	-0.364484
-0.001033	-0.364916	-28.053871	
1.00000	-0.259605	-12.603706	-0.364484
-0.001033	-0.707271	-75.932081	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.462740	12.682220	0.277235
0.000870	0.680148	27.606117	
0.25000	0.462740	32.354729	0.277235
0.000870	0.350732	81.258365	
0.50000	0.462740	60.438307	0.277235
0.000870	0.100877	102.620646	
0.75000	0.462740	86.752424	0.277235
0.000870	0.512590	80.751610	
1.00000	0.462740	114.421340	0.277235
0.000870	0.954849	26.779823	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.259605	-114.335838	-0.364484
-0.001033	-0.858858	-76.292308	
0.25000	-0.259605	-86.665437	-0.364484
-0.001033	-0.411367	-28.067652	
0.50000	-0.259605	-60.351604	-0.364484
-0.001033	-0.042612	-27.498770	
0.75000	-0.259605	-32.268513	-0.364484
-0.001033	-0.364916	-28.053871	
1.00000	-0.259605	-12.603706	-0.364484
-0.001033	-0.707271	-75.932081	

ELEM 478 ========== LENGTH = 4.943913

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.175535	0.221168	0.085158
0.000625	0.210460	4.093221	
0.25000	0.175535	0.245340	0.085158
0.000625	0.105204	3.931037	
0.50000	0.175535	0.277121	0.085158
0.000625	0.013854	3.738783	
0.75000	0.175535	0.306896	0.085158
0.000625	0.143986	3.504764	
1.00000	0.175535	0.338174	0.085158
0.000625	0.275232	3.245346	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.041694	-0.203259	-0.106259
-3.06E-06	-0.250273	-1.184778	
0.25000	-0.041694	-0.172040	-0.106259
-3.06E-06	-0.118979	-1.043539	
0.50000	-0.041694	-0.142262	-0.106259
-3.06E-06	-0.002729	-0.956112	
0.75000	-0.041694	-0.110490	-0.106259
-3.06E-06	0.105303	-0.869706	
1.00000	-0.041694	-0.081411	-0.106259
-3.06E-06	-0.210567	-0.837467	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.294913	0.831219	0.136063
0.001090	0.336201	8.784216	
0.25000	0.294913	1.508028	0.136063
0.001090	0.168393	9.997956	
0.50000	0.294913	2.397905	0.136063
0.001090	0.028848	10.261042	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.294913	3.231600	0.136063
0.001090	0.252576	9.181330	
1.00000	0.294913	4.107372	0.136063
0.001090	0.480558	7.169492	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.057902	-3.799191	-0.184745
-2.97E-05	-0.434297	-4.332857	
0.25000	-0.057902	-2.925066	-0.184745
-2.97E-05	-0.206105	-2.655887	
0.50000	-0.057902	-2.091276	-0.184745
-2.97E-05	-0.006042	-2.485669	
0.75000	-0.057902	-1.201665	-0.184745
-2.97E-05	-0.166753	-2.344050	
1.00000	-0.057902	-0.527461	-0.184745
-2.97E-05	-0.336796	-3.719099	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.370490	0.913204	0.151044
0.001222	0.370133	14.021524	
0.25000	0.370490	0.934959	0.151044
0.001222	0.183402	13.181675	
0.50000	0.370490	0.963562	0.151044
0.001222	0.043138	12.495516	
0.75000	0.370490	0.990359	0.151044
0.001222	0.335209	12.019214	
1.00000	0.370490	1.018509	0.151044
0.001222	0.636781	11.702640	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.059368	-0.550410	-0.244291
-0.000242	-0.571840	-2.779205	
0.25000	-0.059368	-0.522313	-0.244291
-0.000242	-0.270267	-2.519586	
0.50000	-0.059368	-0.495516	-0.244291
-0.000242	-0.006675	-2.308398	
0.75000	-0.059368	-0.466918	-0.244291
-0.000242	-0.189855	-2.098129	
1.00000	-0.059368	-0.445247	-0.244291
-0.000242	-0.376609	-1.936611	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.337241	7.223502	0.161907
0.001105	0.397106	23.986695	
0.25000	0.337241	20.040671	0.161907
0.001105	0.204079	55.988229	
0.50000	0.337241	36.892630	0.161907
0.001105	0.076288	68.197985	
0.75000	0.337241	52.680719	0.161907
0.001105	0.385478	54.014014	
1.00000	0.337241	69.265660	0.161907
0.001105	0.719603	21.439554	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.123080	-68.720588	-0.274705
-0.000642	-0.657104	-47.356685	
0.25000	-0.123080	-52.166843	-0.274705
-0.000642	-0.318011	-18.328988	
0.50000	-0.123080	-36.376941	-0.274705
-0.000642	-0.029559	-17.835411	
0.75000	-0.123080	-19.529939	-0.274705
-0.000642	-0.211802	-17.883428	
1.00000	-0.123080	-6.762195	-0.274705
-0.000642	-0.409285	-46.653339	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.134125	0.394472	0.047018
0.000479	0.114578	5.781192	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.134125	0.418643	0.047018
0.000479	0.057243	5.485148	
0.50000	0.134125	0.450425	0.047018
0.000479	0.017890	5.231957	
0.75000	0.134125	0.480800	0.047018
0.000479	0.124956	5.009730	
1.00000	0.134125	0.511477	0.047018
0.000479	0.236375	4.842049	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.014021	-0.290152	-0.090276
-9.50E-05	-0.210500	-1.124926	
0.25000	-0.014021	-0.258933	-0.090276
-9.50E-05	-0.099096	-0.989784	
0.50000	-0.014021	-0.229155	-0.090276
-9.50E-05	-0.002601	-0.908454	
0.75000	-0.014021	-0.197383	-0.090276
-9.50E-05	-0.059830	-0.828146	
1.00000	-0.014021	-0.173304	-0.090276
-9.50E-05	-0.117966	-0.802004	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.221517	9.141846	0.076978
0.000632	0.185838	21.929349	
0.25000	0.221517	26.690534	0.076978
0.000632	0.100388	66.434775	
0.50000	0.221517	49.763791	0.076978
0.000632	0.071534	83.660766	
0.75000	0.221517	71.380298	0.076978
0.000632	0.267465	64.538299	
1.00000	0.221517	94.087827	0.076978
0.000632	0.490702	20.160462	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023880	-93.669204	-0.186336
-0.000341	-0.455561	-62.768443	
0.25000	-0.023880	-71.004388	-0.186336
-0.000341	-0.225593	-23.185576	
0.50000	-0.023880	-49.385399	-0.186336
-0.000341	-0.035374	-22.670641	
0.75000	-0.023880	-26.319065	-0.186336
-0.000341	-0.111316	-22.897239	
1.00000	-0.023880	-8.837911	-0.186336
-0.000341	-0.202866	-62.448862	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.331706	8.425676	0.133594
0.001037	0.326156	23.202209	
0.25000	0.331706	24.284759	0.133594
0.001037	0.169760	63.255890	
0.50000	0.331706	45.136500	0.133594
0.001037	0.076033	78.651692	
0.75000	0.331706	64.671748	0.133594
0.001037	0.352719	61.203356	
1.00000	0.331706	85.192973	0.133594
0.001037	0.655111	20.937209	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.050430	-84.696907	-0.249875
-0.000308	-0.602923	-57.598413	
0.25000	-0.050430	-64.214281	-0.249875
-0.000308	-0.294529	-21.757811	
0.50000	-0.050430	-44.676790	-0.249875
-0.000308	-0.034105	-21.223642	
0.75000	-0.050430	-23.831306	-0.249875
-0.000308	-0.179763	-21.359610	
1.00000	-0.050430	-8.033255	-0.249875
-0.000308	-0.341672	-57.034351	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.293273	6.162023	0.162695
0.000977	0.399320	23.896839	
0.25000	0.293273	16.567966	0.162695
0.000977	0.203934	49.606573	
0.50000	0.293273	30.249829	0.162695
0.000977	0.074298	59.321509	
0.75000	0.293273	43.067882	0.162695
0.000977	0.376701	47.719099	
1.00000	0.293273	56.532883	0.162695
0.000977	0.703205	21.268551	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.173182	-55.954887	-0.267902
-0.000894	-0.630553	-39.009168	
0.25000	-0.173182	-42.515213	-0.267902
-0.000894	-0.306067	-15.399884	
0.50000	-0.173182	-29.695688	-0.267902
-0.000894	-0.025407	-14.956914	
0.75000	-0.173182	-16.017924	-0.267902
-0.000894	-0.409841	-14.653656	
1.00000	-0.173182	-5.652034	-0.267902
-0.000894	-0.409848	-38.269162	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.031143	0.543915	0.089693
6.30E-06	0.222278	8.645412	
0.25000	0.031143	0.568087	0.089693
6.30E-06	0.111414	8.218986	
0.50000	0.031143	0.599868	0.089693
6.30E-06	0.024322	7.863946	
0.75000	0.031143	0.629643	0.089693
6.30E-06	0.132009	7.609849	
1.00000	0.031143	0.660920	0.089693
6.30E-06	0.246577	7.497576	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.234631	-0.401079	-0.094544
-0.001012	-0.233851	-1.208579	
0.25000	-0.234631	-0.369860	-0.094544
-0.001012	-0.116994	-1.069952	
0.50000	-0.234631	-0.340082	-0.094544
-0.001012	-0.002873	-0.985137	
0.75000	-0.234631	-0.308310	-0.094544
-0.001012	-0.110293	-0.901352	
1.00000	-0.234631	-0.284231	-0.094544
-0.001012	-0.221165	-0.871733	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.085546	11.069962	0.120474
6.95E-05	0.296644	26.101944	
0.25000	0.085546	32.437786	0.120474
6.95E-05	0.159583	80.405047	
0.50000	0.085546	60.532496	0.120474
6.95E-05	0.083325	101.475702	
0.75000	0.085546	86.853422	0.120474
6.95E-05	0.267228	78.280108	
1.00000	0.085546	114.502809	0.120474
6.95E-05	0.483724	24.282156	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.267733	-114.073866	-0.182238
-0.001322	-0.457526	-75.964210	
0.25000	-0.267733	-86.476187	-0.182238
-0.001322	-0.236641	-27.805829	
0.50000	-0.267733	-60.152239	-0.182238
-0.001322	-0.041994	-27.217766	
0.75000	-0.267733	-32.065959	-0.182238
-0.001322	-0.164412	-27.532616	
1.00000	-0.267733	-10.780366	-0.182238
-0.001322	-0.308885	-75.730831	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.191409	8.162293	0.142311
0.000403	0.348443	26.786229	
0.25000	0.191409	22.824875	0.142311
0.000403	0.180629	63.495519	
0.50000	0.191409	42.103440	0.142311
0.000403	0.083038	77.511384	
0.75000	0.191409	60.164835	0.142311
0.000403	0.341175	61.354084	
1.00000	0.191409	79.137819	0.142311
0.000403	0.629439	24.263085	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.250078	-78.562585	-0.238374
-0.001329	-0.578340	-53.452313	
0.25000	-0.250078	-59.625288	-0.238374
-0.001329	-0.288530	-20.304484	
0.50000	-0.250078	-41.561819	-0.238374
-0.001329	-0.032098	-19.799364	
0.75000	-0.250078	-22.289039	-0.238374
-0.001329	-0.189016	-19.913822	
1.00000	-0.250078	-7.682885	-0.238374
-0.001329	-0.361929	-52.885802	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.264537	6.954212	0.168111
0.000751	0.412783	25.468037	
0.25000	0.264537	19.082386	0.168111
0.000751	0.211685	55.625466	
0.50000	0.264537	35.028677	0.168111
0.000751	0.079380	67.058020	
0.75000	0.264537	49.968184	0.168111
0.000751	0.375664	53.567026	
1.00000	0.264537	65.661713	0.168111
0.000751	0.698251	22.773786	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.227373	-65.057996	-0.265307
-0.001106	-0.637791	-44.969836	
0.25000	-0.227373	-49.393985	-0.265307
-0.001106	-0.314006	-17.492201	
0.50000	-0.227373	-34.452762	-0.265307
-0.001106	-0.028405	-17.015026	
0.75000	-0.227373	-18.531176	-0.265307
-0.001106	-0.218647	-17.050337	
1.00000	-0.227373	-6.429757	-0.265307
-0.001106	-0.423962	-44.263790	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.234912	0.284056	0.156463
0.000630	0.383893	5.092268	
0.25000	0.234912	0.292251	0.156463
0.000630	0.190374	4.818981	
0.50000	0.234912	0.311685	0.156463
0.000630	0.017778	4.535500	
0.75000	0.234912	0.332843	0.156463
0.000630	0.302687	4.231323	
1.00000	0.234912	0.351393	0.156463
0.000630	0.588484	3.917482	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074423	-0.182096	-0.231240
-2.71E-06	-0.554171	-1.513594	
0.25000	-0.074423	-0.163535	-0.231240
-2.71E-06	-0.267928	-1.394142	
0.50000	-0.074423	-0.142378	-0.231240
-2.71E-06	-0.003285	-1.243767	
0.75000	-0.074423	-0.122951	-0.231240
-2.71E-06	-0.195975	-1.122908	
1.00000	-0.074423	-0.114811	-0.231240
-2.71E-06	-0.389519	-1.030426	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.378148	0.821430	0.257998
0.001036	0.632635	10.284176	
0.25000	0.378148	1.059077	0.257998
0.001036	0.313983	10.413053	
0.50000	0.378148	1.622645	0.257998
0.001036	0.035709	10.254428	
0.75000	0.378148	2.236238	0.257998
0.001036	0.499655	9.352893	
1.00000	0.378148	2.774196	0.257998
0.001036	0.967630	8.164628	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.110466	-2.445031	-0.378420
-2.35E-05	-0.902439	-3.890784	
0.25000	-0.110466	-1.906773	-0.378420
-2.35E-05	-0.434491	-2.864551	
0.50000	-0.110466	-1.293197	-0.378420
-2.35E-05	-0.006367	-2.345385	
0.75000	-0.110466	-0.729832	-0.378420
-2.35E-05	-0.324021	-2.430674	
1.00000	-0.110466	-0.493779	-0.378420
-2.35E-05	-0.643023	-3.029651	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.456279	1.009314	0.281666
0.001132	0.688458	15.776187	
0.25000	0.456279	1.016689	0.281666
0.001132	0.340103	14.874136	

```
0.50000     0.456279     1.034179     0.281666
0.001132    0.053203    14.009609
0.75000     0.456279     1.053222     0.281666
0.001132    0.610207    13.339729
1.00000     0.456279     1.069917     0.281666
0.001132    1.174348    12.791366

COMB DL-G1-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.109983    -0.602818    -0.456106
-0.000248   -1.079129    -3.646457
0.25000    -0.109983    -0.586113    -0.456106
-0.000248   -0.514980    -3.333572
0.50000    -0.109983    -0.567071    -0.456106
-0.000248   -0.008113    -3.045556
0.75000    -0.109983    -0.549587    -0.456106
-0.000248   -0.356500    -2.757682
1.00000    -0.109983    -0.542261    -0.456106
-0.000248   -0.704812    -2.495289

COMB DL-G1-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.425176     6.665853     0.295776
0.001019    0.721227    23.102472
0.25000     0.425176    12.400102     0.295776
0.001019    0.365528    39.650077
0.50000     0.425176    25.998613     0.295776
0.001019    0.080925    48.623302
0.75000     0.425176    40.803945     0.295776
0.001019    0.671412    37.910385
1.00000     0.425176    53.784731     0.295776
0.001019    1.274791    19.844906

COMB DL-G1-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.166700   -53.281524    -0.494348
-0.000577   -1.176391   -34.110033
0.25000    -0.166700   -40.293734    -0.494348
-0.000577   -0.567419   -14.226128
0.50000    -0.166700   -25.488576    -0.494348
-0.000577   -0.021217   -13.822811
0.75000    -0.166700   -11.894953    -0.494348
-0.000577   -0.383903   -13.527323
1.00000    -0.166700    -6.199172    -0.494348
-0.000577   -0.749724   -32.857378
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4892

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.151923     0.413474     0.097964
0.000403    0.239628     6.237278
0.25000     0.151923     0.421669     0.097964
0.000403    0.118614     5.915722
0.50000     0.151923     0.441102     0.097964
0.000403    0.021328     5.640639
0.75000     0.151923     0.462260     0.097964
0.000403    0.209581     5.383787
1.00000     0.151923     0.480811     0.097964
0.000403    0.401252     5.132209

COMB DL-G2-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.029459    -0.291196    -0.154865
-9.47E-05   -0.363772    -1.397323
0.25000    -0.029459    -0.272636    -0.154865
-9.47E-05   -0.172192    -1.262105
0.50000    -0.029459    -0.251478    -0.154865
-9.47E-05   -0.003020    -1.154488
0.75000    -0.029459    -0.232051    -0.154865
-9.47E-05   -0.123981    -1.047016
1.00000    -0.029459    -0.223912    -0.154865
-9.47E-05   -0.244740    -0.967487

COMB DL-G2-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.253077     9.101512     0.148017
0.000516    0.356667    20.058126
0.25000     0.253077    17.828879     0.148017
0.000516    0.189155    46.204242
0.50000     0.253077    38.525434     0.148017
0.000516    0.073953    60.788669
0.75000     0.253077    61.058736     0.148017
0.000516    0.403611    45.021506
1.00000     0.253077    80.815131     0.148017
0.000516    0.746479    17.888653

COMB DL-G2-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.042480   -80.476765    -0.286924
-0.000297   -0.683876   -48.582883
0.25000    -0.042480   -60.709710    -0.286924
-0.000297   -0.332502   -16.577544
0.50000    -0.042480   -38.176672    -0.286924
-0.000297   -0.024681   -18.220630
0.75000    -0.042480   -17.487556    -0.286924
-0.000297   -0.205596   -18.028515
1.00000    -0.042480    -8.818737    -0.286924
-0.000297   -0.388521   -47.705443

COMB DL-G2-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.400929     8.446558     0.253434
0.000935    0.615841    22.343822
0.25000     0.400929    18.345440     0.253434
0.000935    0.316464    45.770480
0.50000     0.400929    35.077280     0.253434
0.000935    0.081652    58.739335
0.75000     0.400929    55.471505     0.253434
0.000935    0.591762    44.230828
1.00000     0.400929    73.352434     0.253434
0.000935    1.115329    19.436609

COMB DL-G2-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.089947   -72.906712    -0.431964
-0.000269   -1.030459   -45.129695
0.25000    -0.089947   -55.016135    -0.431964
-0.000269   -0.499329   -17.877719
0.50000    -0.089947   -34.622149    -0.431964
-0.000269   -0.024926   -17.459711
0.75000    -0.089947   -15.897042    -0.431964
-0.000269   -0.335803   -17.190990
1.00000    -0.089947    -8.051151    -0.431964
-0.000269   -0.649156   -43.955967
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4893

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.364532     5.781264     0.290201
0.000880    0.707996    23.318651
0.25000     0.364532    10.544440     0.290201
0.000880    0.357586    36.852845

0.50000     0.364532    21.840095     0.290201
0.000880    0.080322    44.118742
0.75000     0.364532    34.138200     0.290201
0.000880    0.653764    35.070763
1.00000     0.364532    44.920739     0.290201
0.000880    1.240343    19.994443

COMB DL-G2-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.207378   -44.396742    -0.479704
-0.000803   -1.137298   -28.985341
0.25000    -0.207378   -33.608384    -0.479704
-0.000803   -0.546055   -12.419967
0.50000    -0.207378   -21.310423    -0.479704
-0.000803   -0.019212   -12.035847
0.75000    -0.207378   -10.018628    -0.479704
-0.000803   -0.375034   -11.743228
1.00000    -0.207378    -5.287607    -0.479704
-0.000803   -0.733839   -27.753540

COMB DL-G3-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.038889     0.531231     0.136286
5.88E-06    0.335038     8.896029
0.25000     0.038889     0.539426     0.136286
5.88E-06    0.166315     8.493986
0.50000     0.038889     0.558859     0.136286
5.88E-06    0.028293     8.116184
0.75000     0.038889     0.580017     0.136286
5.88E-06    0.263172     7.789357
1.00000     0.038889     0.598568     0.136286
5.88E-06    0.502798     7.541037

COMB DL-G3-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.243404    -0.360835    -0.194512
-0.000976   -0.463885    -1.496076
0.25000    -0.243404    -0.342274    -0.194512
-0.000976   -0.223558    -1.366030
0.50000    -0.243404    -0.321117    -0.194512
-0.000976   -0.003582    -1.264062
0.75000    -0.243404    -0.301690    -0.194512
-0.000976   -0.169646    -1.162054
1.00000    -0.243404    -0.293550    -0.194512
-0.000976   -0.338247    -1.088321

COMB DL-G3-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.107359    12.649382     0.192031
5.71E-05    0.466245    24.705764
0.25000     0.107359    25.039785     0.192031
5.71E-05    0.250611    62.075545
0.50000     0.107359    54.423063     0.192031
5.71E-05    0.090301    83.007177
0.75000     0.107359    86.414005     0.192031
5.71E-05    0.458311    60.817194
1.00000     0.107359   114.462520     0.192031
5.71E-05    0.842889    22.462156

COMB DL-G3-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.276755   -114.113521    -0.325111
-0.001181   -0.786908    -67.792512
0.25000    -0.276755    -86.049871    -0.325111
-0.001181   -0.391227    -25.298925
0.50000    -0.276755    -54.059305    -0.325111
-0.001181   -0.032673    -24.897906
0.75000    -0.276755    -24.686588    -0.325111
-0.001181   -0.262760    -24.731180
1.00000    -0.276755    -12.379307    -0.325111
-0.001181   -0.500496    -66.971230
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4894

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.219340     9.635786     0.237696
0.000320    0.577787    26.380045
0.25000     0.219340    18.567202     0.237696
0.000320    0.299629    52.884650
0.50000     0.219340    39.747648     0.237696
0.000320    0.093620    67.579815
0.75000     0.219340    62.807786     0.237696
0.000320    0.572575    51.243085
1.00000     0.219340    83.026090     0.237696
0.000320    1.068101    23.330353

COMB DL-G3-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.262685    -82.539744    -0.411034
-0.001215   -0.979811    -50.512266
0.25000    -0.262685    -62.310530    -0.411034
-0.001215   -0.476546    -19.746576
0.50000    -0.262685    -39.250663    -0.411034
-0.001215   -0.027342    -19.340710
0.75000    -0.262685    -18.077830    -0.411034
-0.001215   -0.316610    -19.094040
1.00000    -0.262685     -9.206332    -0.411034
-0.001215   -0.610748    -49.415304

COMB DL-G3-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.315609     8.220667     0.293034
0.000644    0.714414    25.810980
0.25000     0.315609    15.632783     0.293034
0.000644    0.365072    47.574302
0.50000     0.315609    33.210280     0.293034
0.000644    0.091201    59.546062
0.75000     0.315609    52.347719     0.293034
0.000644    0.655738    45.804180
1.00000     0.315609    69.126741     0.293034
0.000644    1.235889    22.469108

COMB DL-G3-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.256470    -68.593960    -0.477467
-0.001011   -1.137363    -42.911707
0.25000    -0.256470    -51.805613    -0.477467
-0.001011   -0.550935    -17.306494
0.50000    -0.256470    -32.668399    -0.477467
-0.001011   -0.024900    -16.881458
0.75000    -0.256470    -15.097221    -0.477467
-0.001011   -0.382762    -16.596133
1.00000    -0.256470     -7.734829    -0.477467
-0.001011   -0.745388    -41.678982

COMB      DB ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.370490    11.069962     0.168111
0.001222    0.412783    26.786229
0.25000     0.370490    32.437786     0.168111
0.001222    0.211685    80.405047
0.50000     0.370490    60.532496     0.168111
0.001222    0.083325   101.475702
0.75000     0.370490    86.853422     0.168111
0.001222    0.385478    78.280108
1.00000     0.370490   114.502809     0.168111
0.001222    0.719603    24.282156

COMB      DB ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.267733   -114.073566    -0.274705
-0.001329   -0.657104    -75.964210
0.25000    -0.267733    -86.476187    -0.274705
-0.001329   -0.318011    -27.805829
0.50000    -0.267733    -60.152239    -0.274705
-0.001329   -0.041994    -27.217766
0.75000    -0.267733    -32.065959    -0.274705
-0.001329   -0.218647    -27.532616
1.00000    -0.267733    -10.780366    -0.274705
-0.001329   -0.423962    -75.730831
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4895

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      DL ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.456279    12.649382     0.295776
0.001132    0.721227    26.380045
0.25000     0.456279    25.039785     0.295776
0.001132    0.365528    62.075545
0.50000     0.456279    54.423063     0.295776
0.001132    0.093620    83.007177
0.75000     0.456279    86.414005     0.295776
0.001132    0.671412    60.817194
1.00000     0.456279   114.462520     0.295776
0.001132    1.274791    23.330353

COMB      DL ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.276755   -114.113521    -0.494348
-0.001215   -1.176391    -67.792512
0.25000    -0.276755    -86.049871    -0.494348
-0.001215   -0.567419    -25.298925
0.50000    -0.276755    -54.059305    -0.494348
-0.001215   -0.032673    -24.897906
0.75000    -0.276755    -24.686588    -0.494348
-0.001215   -0.383903    -24.731180
1.00000    -0.276755    -12.379307    -0.494348
-0.001215   -0.749724    -66.971230

COMB      CAR ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.456279    12.649382     0.295776
0.001222    0.721227    26.786229
0.25000     0.456279    32.437786     0.295776
0.001222    0.365528    80.405047
0.50000     0.456279    60.532496     0.295776
0.001222    0.093620   101.475702
0.75000     0.456279    86.853422     0.295776
0.001222    0.671412    78.280108
1.00000     0.456279   114.502809     0.295776
0.001222    1.274791    24.282156

COMB      CAR ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.276755   -114.113521    -0.494348
-0.001329   -1.176391    -75.964210
0.25000    -0.276755    -86.476187    -0.494348
-0.001329   -0.567419    -27.805829
0.50000    -0.276755    -60.152239    -0.494348
-0.001329   -0.041994    -27.217766
0.75000    -0.276755    -32.065959    -0.494348
-0.001329   -0.383903    -27.532616
1.00000    -0.276755    -12.379307    -0.494348
-0.001329   -0.749724    -75.730831

COMB   DESIGN ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.456279    12.649382     0.295776
0.001222    0.721227    26.786229
0.25000     0.456279    32.437786     0.295776
0.001222    0.365528    80.405047
0.50000     0.456279    60.532496     0.295776
0.001222    0.093620   101.475702
0.75000     0.456279    86.853422     0.295776
0.001222    0.671412    78.280108
1.00000     0.456279   114.502809     0.295776
0.001222    1.274791    24.282156

COMB   DESIGN ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.276755   -114.113521    -0.494348
-0.001329   -1.176391    -75.964210
0.25000    -0.276755    -86.476187    -0.494348
-0.001329   -0.567419    -27.805829
0.50000    -0.276755    -60.152239    -0.494348
-0.001329   -0.041994    -27.217766
0.75000    -0.276755    -32.065959    -0.494348
-0.001329   -0.383903    -27.532616
1.00000    -0.276755    -12.379307    -0.494348
-0.001329   -0.749724    -75.730831
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4896

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      479 ================== LENGTH =     4.942677

COMB DB-G1-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.134403     0.252213     0.085155
0.000923    0.209863     3.263839
0.25000     0.134403     0.276471     0.085155
0.000923    0.104631     3.038754
0.50000     0.134403     0.308370     0.085155
0.000923    0.010475     2.821091
0.75000     0.134403     0.338154     0.085155
0.000923    0.174612     2.469368
1.00000     0.134403     0.370155     0.085155
0.000923    0.339562     2.138716

COMB DB-G1-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.026061    -0.188767    -0.133536
-6.54E-07   -0.320550    -0.852446
0.25000    -0.026061    -0.157592    -0.133536
-6.54E-07   -0.155546    -0.731480
0.50000    -0.026061    -0.127709    -0.133536
-6.54E-07   -0.002169    -0.663082
0.75000    -0.026061    -0.095968    -0.133536
-6.54E-07   -0.105799    -0.594894
1.00000    -0.026061    -0.072124    -0.133536
-6.54E-07   -0.211029    -0.582740

COMB DB-G1-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.310779     0.816501     0.136277
0.001579    0.335793     7.208083
0.25000     0.310779     1.495724     0.136277
0.001579    0.167573     8.415607
0.50000     0.310779     2.388892     0.136277
0.001579    0.024155     8.595463
0.75000     0.310779     3.222838     0.136277
0.001579    0.312895     7.286575
1.00000     0.310779     4.118886     0.136277
0.001579    0.605481     5.398557

COMB DB-G1-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.035687    -3.824021    -0.237298
-5.12E-06   -0.568094    -3.744342
0.25000    -0.035687    -2.951116    -0.237298
-5.12E-06   -0.274926    -2.107644
0.50000    -0.035687    -2.114388    -0.237298
-5.12E-06   -0.005043    -1.942860
0.75000    -0.035687    -1.225643    -0.237298
-5.12E-06   -0.169687    -1.782283
1.00000    -0.035687    -0.558022    -0.237298
-5.12E-06   -0.337781    -3.190192

COMB DB-G1-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.427842     0.827251     0.157507
0.001735    0.385870    11.775642
0.25000     0.427842     0.849083     0.157507
0.001735    0.191192    10.974211
0.50000     0.427842     0.877792     0.157507
0.001735    0.037784    10.311353
0.75000     0.427842     0.904598     0.157507
0.001735    0.420751     9.869484
1.00000     0.427842     0.933399     0.157507
0.001735    0.813063     9.582575

COMB DB-G1-3 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.036080    -0.642663    -0.317672
-5.89E-07   -0.757452    -1.970374
0.25000    -0.036080    -0.614606    -0.317672
-5.89E-07   -0.365073    -1.765107
0.50000    -0.036080    -0.587711    -0.317672
-5.89E-07   -0.005402    -1.607151
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4897

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST         P            V2           V3
       T         M2           M3
0.75000    -0.036080    -0.559144    -0.317672
-5.89E-07   -0.197905    -1.449406
1.00000    -0.036080    -0.537685    -0.317672
-5.89E-07   -0.392586    -1.342096

COMB DB-G1-4 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.373561     6.509854     0.168398
0.001441    0.412740    21.537869
0.25000     0.373561    19.372647     0.168398
0.001441    0.208161    53.541256
0.50000     0.373561    36.287011     0.168398
0.001441    0.070469    65.591110
0.75000     0.373561    52.079867     0.168398
0.001441    0.479177    48.171408
1.00000     0.373561    69.048778     0.168398
0.001441    0.909852    19.533621

COMB DB-G1-4 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.133867   -68.783836    -0.357124
-0.000586   -0.864420    -46.661680
0.25000    -0.133867    -52.253191    -0.357124
-0.000586   -0.423293    -17.743024
0.50000    -0.133867    -36.407667    -0.357124
-0.000586   -0.027584    -16.698732
0.75000    -0.133867    -19.577042    -0.357124
-0.000586   -0.216374    -15.732597
1.00000    -0.133867     -6.933973    -0.357124
-0.000586   -0.419556    -44.469184

COMB DB-G2-1 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.214790     0.351219     0.050551
0.000662    0.123339     4.870101
0.25000     0.214790     0.375477     0.050551
0.000662    0.060869     4.630020
0.50000     0.214790     0.407376     0.050551
0.000662    0.016711     4.436976
0.75000     0.214790     0.437159     0.050551
0.000662    0.160490     4.273077
1.00000     0.214790     0.469161     0.050551
0.000662    0.308901     4.149510

COMB DB-G2-1 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.008618    -0.345021    -0.120206
-5.54E-06   -0.285492    -0.814852
0.25000    -0.008618    -0.313846    -0.120206
-5.54E-06   -0.137056    -0.701302
0.50000    -0.008618    -0.283963    -0.120206
-5.54E-06   -0.002135    -0.640321
0.75000    -0.008618    -0.252222    -0.120206
-5.54E-06   -0.064028    -0.579488
1.00000    -0.008618    -0.228379    -0.120206
-5.54E-06   -0.126505    -0.574680

COMB DB-G2-2 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.314028     8.200131     0.086023
0.000823    0.208773    20.244773
0.25000     0.314028    25.811423     0.086023
0.000823    0.107269    64.813721
0.50000     0.314028    48.969887     0.086023
0.000823    0.068640    81.878686
0.75000     0.314028    70.593020     0.086023
0.000823    0.331361    58.322043
1.00000     0.314028    93.826268     0.086023
0.000823    0.618041    19.327286

COMB DB-G2-2 ------------------- MIN

REL DIST         P            V2           V3
       T         M2           M3
0.00000    -0.017560   -93.733342    -0.243625
-0.000121   -0.598337    -62.435143
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1503.OUT

                      Page
<                  MOVING                LOAD                >
                                          4898

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST         P            V2           V3
       T         M2           M3
0.25000    -0.017560   -71.100154    -0.243625
-0.000121   -0.297470    -22.959059
0.50000    -0.017560    -49.405099    -0.243625
-0.000121   -0.033646    -21.647580
0.75000    -0.017560    -26.361099    -0.243625
-0.000121   -0.116761    -20.443021
1.00000    -0.017560     -9.050645    -0.243625
-0.000121   -0.216353    -59.906391

COMB DB-G2-3 ------------------- MAX

REL DIST         P            V2           V3
       T         M2           M3
0.00000     0.406998     7.589640     0.141837
0.001449    0.346617    21.028435
0.25000     0.406998    23.505300     0.141837
0.001449    0.175647    61.089386
```

0.50000	0.406998	44.434134	0.141837
0.001449	0.071174	76.292765	
0.75000	0.406998	63.975280	0.141837
0.001449	0.436661	54.780307	
1.00000	0.406998	84.971607	0.141837
0.001449	0.824610	19.328415	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.033743	-84.735971	-0.324508
-0.000109	-0.790386	-57.033880	
0.25000	-0.033743	-64.281928	-0.324508
-0.000109	-0.389592	-21.306064	
0.50000	-0.033743	-44.675614	-0.324508
-0.000109	-0.032111	-20.068330	
0.75000	-0.033743	-23.850394	-0.324508
-0.000109	-0.185146	-18.927288	
1.00000	-0.033743	-8.206607	-0.324508
-0.000109	-0.354388	-54.538626	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.353908	5.519687	0.168865
0.001211	0.414042	21.364126	
0.25000	0.353908	15.962747	0.168865
0.001211	0.208175	47.106833	
0.50000	0.353908	29.695201	0.168865
0.001211	0.069283	56.719314	
0.75000	0.353908	42.517123	0.168865
0.001211	0.474717	42.527145	
1.00000	0.353908	56.293863	0.168865
0.001211	0.901940	19.324870	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.206639	-56.032828	-0.352785
-0.000927	-0.849343	-38.281342	
0.25000	-0.206639	-42.611909	-0.352785
-0.000927	-0.413638	-14.774477	
0.50000	-0.206639	-29.747226	-0.352785
-0.000927	-0.023585	-13.898301	
0.75000	-0.206639	-16.082758	-0.352785
-0.000927	-0.215825	-13.085581	
1.00000	-0.206639	-5.818088	-0.352785
-0.000927	-0.420559	-36.387935	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.025758	0.451746	0.089253
6.76E-06	0.220251	7.516224	
0.25000	0.025758	0.476004	0.089253
6.76E-06	0.109350	7.139077	
0.50000	0.025758	0.507903	0.089253
6.76E-06	0.023056	6.819137	
0.75000	0.025758	0.537687	0.089253
6.76E-06	0.174612	6.585416	
1.00000	0.025758	0.569689	0.089253
6.76E-06	0.333044	6.436164	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4899
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.303215	-0.411910	-0.128352
-0.001365	-0.301849	-0.882093	
0.25000	-0.303215	-0.380735	-0.128352
-0.001365	-0.143367	-0.772090	
0.50000	-0.303215	-0.350852	-0.128352
-0.001365	-0.002433	-0.714666	
0.75000	-0.303215	-0.319111	-0.128352
-0.001365	-0.110602	-0.657409	
1.00000	-0.303215	-0.295267	-0.128352
-0.001365	-0.220900	-0.656168	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.074645	9.935619	0.123652
7.69E-05	0.303740	24.354762	
0.25000	0.074645	31.379672	0.123652
7.69E-05	0.156818	78.655047	
0.50000	0.074645	59.578253	0.123652
7.69E-05	0.080328	99.468377	
0.75000	0.074645	85.907126	0.123652
7.69E-05	0.333709	70.763825	
1.00000	0.074645	114.196645	0.123652
7.69E-05	0.615154	23.284361	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.352348	-114.065006	-0.241899
-0.001744	-0.595518	-75.705239	
0.25000	-0.352348	-86.506138	-0.241899
-0.001744	-0.074767	-27.672389	
0.50000	-0.352348	-60.089460	-0.241899
-0.001744	-0.040163	-26.109959	
0.75000	-0.352348	-32.030484	-0.241899
-0.001744	-0.162836	-24.677737	
1.00000	-0.352348	-10.952741	-0.241899
-0.001744	-0.307427	-72.764035	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.249172	7.269017	0.149812
0.000527	0.366661	24.354287	
0.25000	0.249172	21.983906	0.149812
0.000527	0.185527	61.144548	
0.50000	0.249172	41.333747	0.149812
0.000527	0.079486	75.067164	
0.75000	0.249172	59.400596	0.149812
0.000527	0.433037	55.189650	
1.00000	0.249172	78.812838	0.149812
0.000527	0.813863	22.647111	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.318350	-78.635629	-0.318038
-0.001493	-0.768738	-52.882779	
0.25000	-0.318350	-59.724759	-0.318038
-0.001493	-0.375999	-19.850710	
0.50000	-0.318350	-41.597658	-0.318038
-0.001493	-0.030272	-18.706606	
0.75000	-0.318350	-22.343614	-0.318038
-0.001493	-0.194228	-17.651852	
1.00000	-0.318350	-7.880086	-0.318038
-0.001493	-0.373765	-50.576659	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.334702	6.211888	0.174331
0.001024	0.427530	22.863960	
0.25000	0.334702	18.383329	0.174331
0.001024	0.215410	53.085674	
0.50000	0.334702	34.388576	0.174331
0.001024	0.074987	64.415309	
0.75000	0.334702	49.332594	0.174331
0.001024	0.475980	47.834733	
1.00000	0.334702	65.389456	0.174331
0.001024	0.900891	20.791402	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4900
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.276775	-65.126673	-0.352045
-0.001244	-0.848021	-44.271444	
0.25000	-0.276775	-49.484521	-0.352045
-0.001244	-0.413278	-16.904132	
0.50000	-0.276775	-34.490666	-0.352045
-0.001244	-0.026538	-15.913000	
0.75000	-0.276775	-18.564658	-0.352045
-0.001244	-0.223292	-14.995806	
1.00000	-0.276775	-6.601131	-0.352045
-0.001244	-0.434091	-42.184857	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.154642	0.338585	0.161561
0.000997	0.396275	3.970179	
0.25000	0.154642	0.347481	0.161561
0.000997	0.196517	3.622993	
0.50000	0.154642	0.366988	0.161561
0.000997	0.013603	3.266700	
0.75000	0.154642	0.388140	0.161561
0.000997	0.344258	2.887071	
1.00000	0.154642	0.406530	0.161561
0.000997	0.675748	2.500696	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.046329	-0.159019	-0.268172
-3.93E-07	-0.649064	-1.077653	
0.25000	-0.046329	-0.140384	-0.268172
-3.93E-07	-0.317540	-0.956864	
0.50000	-0.046329	-0.119175	-0.268172
-3.93E-07	-0.002845	-0.866714	
0.75000	-0.046329	-0.099777	-0.268172
-3.93E-07	-0.202395	-0.781373	
1.00000	-0.046329	-0.091811	-0.268172
-3.93E-07	-0.402137	-0.725536	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.335755	0.838064	0.267271
0.001664	0.655065	8.257186	
0.25000	0.335755	1.096055	0.267271
0.001664	0.325124	8.332456	
0.50000	0.335755	1.661748	0.267271
0.001664	0.029824	8.086191	
0.75000	0.335755	2.275178	0.267271
0.001664	0.586512	7.103864	
1.00000	0.335755	2.808475	0.267271
0.001664	1.146086	5.864505	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.064412	-2.413425	-0.452845
-2.93E-06	-1.091183	-3.107298	
0.25000	-0.064412	-1.873008	-0.452845
-2.93E-06	-0.531151	-2.139953	
0.50000	-0.064412	-1.257934	-0.452845
-2.93E-06	-0.005593	-1.949210	
0.75000	-0.064412	-0.695407	-0.452845
-2.93E-06	-0.335598	-1.762283	
1.00000	-0.064412	-0.464385	-0.452845
-2.93E-06	-0.665966	-2.412831	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.444915	0.963537	0.297481
0.001731	0.727828	12.930114	
0.25000	0.444915	0.971543	0.297481
0.001731	0.360089	12.092569	
0.50000	0.444915	0.989099	0.297481
0.001731	0.046799	11.270315	
0.75000	0.444915	1.008137	0.297481
0.001731	0.736718	10.625147	
1.00000	0.444915	1.024687	0.297481
0.001731	1.432907	10.123042	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4901
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.066919	-0.641080	-0.563139
-8.79E-06	-1.348945	-2.580611	
0.25000	-0.066919	-0.624309	-0.563139
-8.79E-06	-0.652642	-2.341290	
0.50000	-0.066919	-0.605220	-0.563139
-8.79E-06	-0.006902	-2.125913	
0.75000	-0.066919	-0.587763	-0.563139
-8.79E-06	-0.375495	-1.910545	
1.00000	-0.066919	-0.580593	-0.563139
-8.79E-06	-0.743235	-1.721380	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.401365	6.033798	0.311046
0.001437	0.758929	19.984467	
0.25000	0.401365	12.258936	0.311046
0.001437	0.383654	36.620571	
0.50000	0.401365	25.908718	0.311046
0.001437	0.074034	45.278792	
0.75000	0.401365	40.710352	0.311046
0.001437	0.809597	34.242442	
1.00000	0.401365	53.578468	0.311046
0.001437	1.556435	16.412878	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.151452	-53.116741	-0.612225
-0.000561	-1.472430	-32.905413	
0.25000	-0.151452	-40.076473	-0.612225
-0.000561	-0.717915	-13.290521	
0.50000	-0.151452	-25.235155	-0.612225
-0.000561	-0.019357	-12.413274	
0.75000	-0.151452	-11.661760	-0.612225
-0.000561	-0.401654	-11.624571	
1.00000	-0.151452	-6.087372	-0.612225
-0.000561	-0.786263	-30.980113	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.208718	0.365942	0.104108
0.000615	0.254232	5.183059	
0.25000	0.208718	0.374838	0.104108
0.000615	0.125661	4.908034	
0.50000	0.208718	0.394345	0.104108
0.000615	0.010983	4.664642	
0.75000	0.208718	0.415497	0.104108
0.000615	0.263477	4.466185	
1.00000	0.208718	0.433887	0.104108
0.000615	0.510288	4.286325	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.014484	-0.291958	-0.199516
-3.11E-06	-0.475060	-0.998140	
0.25000	-0.014484	-0.273323	-0.199516
-3.11E-06	-0.228292	-0.891149	
0.50000	-0.014484	-0.252114	-0.199516
-3.11E-06	-0.002617	-0.810978	
0.75000	-0.014484	-0.232716	-0.199516
-3.11E-06	-0.131719	-0.730831	
1.00000	-0.014484	-0.224750	-0.199516
-3.11E-06	-0.260322	-0.684024	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.310138	8.151186	0.159677
0.000714	0.385598	17.989752	
0.25000	0.310138	17.625673	0.159677
0.000714	0.202972	44.253408	
0.50000	0.310138	38.400260	0.159677
0.000714	0.070216	58.361911	
0.75000	0.310138	60.927935	0.159677
0.000714	0.501849	42.142747	
1.00000	0.310138	80.512835	0.159677
0.000714	0.945605	15.347487	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4902
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.029411	-80.183986	-0.371243
-9.69E-05	-0.894193	-47.715589	
0.25000	-0.029411	-60.337656	-0.371243
-9.69E-05	-0.438719	-18.060369	
0.50000	-0.029411	-37.746583	-0.371243
-9.69E-05	-0.023056	-16.923648	
0.75000	-0.029411	-17.091255	-0.371243
-9.69E-05	-0.217962	-15.921892	
1.00000	-0.029411	-8.607191	-0.371243
-9.69E-05	-0.415210	-45.574822	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.420765	7.614543	0.268140
0.001397	0.652483	19.568125	
0.25000	0.420765	16.189621	0.268140
0.001397	0.333973	43.066706	
0.50000	0.420765	34.992086	0.268140
0.001397	0.075689	55.564504	
0.75000	0.420765	55.381218	0.268140
0.001397	0.717477	40.596947	
1.00000	0.420765	73.106931	0.268140
0.001397	1.371872	16.060169	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.058277	-72.620126	-0.540212
-8.77E-05	-1.301966	-44.001352	
0.25000	-0.058277	-54.657799	-0.540212
-8.77E-05	-0.637072	-17.088343	
0.50000	-0.058277	-34.214002	-0.540212
-8.77E-05	-0.023093	-15.986561	
0.75000	-0.058277	-15.516760	-0.540212
-8.77E-05	-0.352071	-15.001776	
1.00000	-0.058277	-7.838085	-0.540212
-8.77E-05	-0.683536	-41.772264	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.376106	5.198009	0.305582
0.001168	0.745742	20.121130	
0.25000	0.376106	10.368944	0.305582
0.001168	0.375787	33.800353	
0.50000	0.376106	21.707187	0.305582
0.001168	0.075070	40.859928	
0.75000	0.376106	34.002221	0.305582
0.001168	0.791984	31.592082	
1.00000	0.376106	44.691162	0.305582
0.001168	1.535316	16.756056	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.210786	-44.278168	-0.602238
-0.000905	-1.443565	-27.790042	
0.25000	-0.210786	-33.446544	-0.602238
-0.000905	-0.701058	-11.466134	
0.50000	-0.210786	-21.118546	-0.602238
-0.000905	-0.010380	-10.706704	
0.75000	-0.210786	-9.843754	-0.602238
-0.000905	-0.393078	-10.024486	
1.00000	-0.210786	-5.213368	-0.602238
-0.000905	-0.770877	-26.072913	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.032022	0.450197	0.140845
6.30E-06	0.345457	7.548569	
0.25000	0.032022	0.459093	0.140845
6.30E-06	0.171233	7.204952	
0.50000	0.032022	0.478599	0.140845
6.30E-06	0.027192	6.885377	
0.75000	0.032022	0.499752	0.140845
6.30E-06	0.325317	6.616150	
1.00000	0.032022	0.518142	0.140845
6.30E-06	0.627398	6.422945	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4903
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.283109	-0.367652	-0.244554
-0.001407	-0.581715	-1.069590	
0.25000	-0.283109	-0.349057	-0.244554
-0.001407	-0.279570	-0.975578	
0.50000	-0.283109	-0.327847	-0.244554
-0.001407	-0.002945	-0.908958	
0.75000	-0.283109	-0.308450	-0.244554
-0.001407	-0.176017	-0.842561	
1.00000	-0.283109	-0.300484	-0.244554
-0.001407	-0.350286	-0.806028	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.085202	11.336415	0.199212
6.60E-05	0.483052	22.505713	
0.25000	0.085202	24.787518	0.199212
6.60E-05	0.256811	59.970002	
0.50000	0.085202	54.281579	0.199212
6.60E-05	0.086358	80.150114	
0.75000	0.085202	86.264532	0.199212
6.60E-05	0.555690	57.245109	
1.00000	0.085202	114.069572	0.199212
6.60E-05	1.039500	19.284036	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.327839	-113.642710	-0.408819
-0.001728	-0.990283	-66.912167	
0.25000	-0.327839	-85.466512	-0.408819
-0.001728	-0.490009	-24.894842	
0.50000	-0.327839	-53.397811	-0.408819
-0.001728	-0.030617	-23.367075	
0.75000	-0.327839	-24.068804	-0.408819
-0.001728	-0.270406	-22.031355	
1.00000	-0.327839	-12.023823	-0.408819
-0.001728	-0.516984	-64.216320	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.247759	8.599002	0.251360
0.000423	0.611279	23.419354	
0.25000	0.247759	18.295006	0.251360
0.000423	0.314896	50.101032	
0.50000	0.247759	39.555308	0.251360
0.000423	0.089561	64.351071	
0.75000	0.247759	62.609687	0.251360
0.000423	0.709230	47.582796	
1.00000	0.247759	82.652487	0.251360
0.000423	1.343592	20.069810	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.298555	-82.239231	-0.526125
-0.001498	-1.262409	-49.391586	
0.25000	-0.298555	-61.928888	-0.526125
-0.001498	-0.615698	-19.016462	
0.50000	-0.298555	-38.812699	-0.526125
-0.001498	-0.025241	-17.825904	
0.75000	-0.298555	-17.671373	-0.526125
-0.001498	-0.332222	-16.773971	
1.00000	-0.298555	-8.988950	-0.526125
-0.001498	-0.643103	-47.092692	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.344362	7.365723	0.307788
0.000966	0.750408	22.576678	
0.25000	0.344362	15.412364	0.307788
0.000966	0.381775	44.484160	
0.50000	0.344362	33.056133	0.307788
0.000966	0.086206	56.073579	
0.75000	0.344362	52.188793	0.307788
0.000966	0.804425	41.948627	
1.00000	0.344362	68.822165	0.307788
0.000966	1.536476	18.928373	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4904
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.270229	-68.333673	-0.602739
-0.001248	-1.446796	-41.688251	
0.25000	-0.270229	-51.478268	-0.602739
-0.001248	-0.704664	-16.418809	
0.50000	-0.270229	-32.294313	-0.602739
-0.001248	-0.022906	-15.369498	
0.75000	-0.270229	-14.749282	-0.602739
-0.001248	-0.400033	-14.435321	
1.00000	-0.270229	-7.543803	-0.602739
-0.001248	-0.780677	-39.535263	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.427842	9.935619	0.174331
0.001735	0.427530	24.354762	
0.25000	0.427842	31.379672	0.174331
0.001735	0.215410	78.655047	
0.50000	0.427842	59.578253	0.174331
0.001735	0.080328	99.468377	
0.75000	0.427842	85.907126	0.174331
0.001735	0.475980	70.763825	
1.00000	0.427842	114.196645	0.174331
0.001735	0.909852	23.284361	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.352348	-114.065006	-0.357124
-0.001744	-0.864420	-75.705239	
0.25000	-0.352348	-86.506138	-0.357124
-0.001744	-0.423293	-27.672389	
0.50000	-0.352348	-60.089460	-0.357124
-0.001744	-0.040163	-26.109959	
0.75000	-0.352348	-32.030484	-0.357124
-0.001744	-0.223292	-24.677737	
1.00000	-0.352348	-10.952741	-0.357124
-0.001744	-0.434091	-72.764035	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.444915	11.336415	0.311046
0.001731	0.758929	23.419354	
0.25000	0.444915	24.787518	0.311046
0.001731	0.383654	59.970002	
0.50000	0.444915	54.281579	0.311046
0.001731	0.089561	80.150114	
0.75000	0.444915	86.264532	0.311046
0.001731	0.809597	57.245109	
1.00000	0.444915	114.069572	0.311046
0.001731	1.556435	20.069810	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.327839	-113.642710	-0.612225
-0.001728	-1.472430	-66.912167	
0.25000	-0.327839	-85.466512	-0.612225
-0.001728	-0.717915	-24.894842	
0.50000	-0.327839	-53.397811	-0.612225
-0.001728	-0.030617	-23.367075	
0.75000	-0.327839	-24.068804	-0.612225
-0.001728	-0.401654	-22.031355	
1.00000	-0.327839	-12.023823	-0.612225
-0.001728	-0.786263	-64.216320	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.444915	11.336415	0.311046
0.001735	0.758929	24.354762	
0.25000	0.444915	31.379672	0.311046
0.001735	0.383654	78.655047	
0.50000	0.444915	59.578253	0.311046
0.001735	0.089561	99.468377	
0.75000	0.444915	86.264532	0.311046
0.001735	0.809597	70.763825	
1.00000	0.444915	114.196645	0.311046
0.001735	1.556435	23.284361	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4905
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

```
 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.352348 -114.065006  -0.612225
-0.001744  -1.472430  -75.705239
 0.25000  -0.352348  -86.506138  -0.612225
-0.001744  -0.717915  -27.672389
 0.50000  -0.352348  -60.089460  -0.612225
-0.001744  -0.040163  -26.109959
 0.75000  -0.352348  -32.030484  -0.612225
-0.001744  -0.401654  -24.677737
 1.00000  -0.352348  -12.023823  -0.612225
-0.001744  -0.786263  -72.764035

COMB  DESIGN ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.444915  11.336415   0.311046
 0.001735  0.758929  24.354762
 0.25000   0.444915  31.379672   0.311046
 0.001735  0.383654  78.655047
 0.50000   0.444915  59.578253   0.311046
 0.001735  0.089561  99.468377
 0.75000   0.444915  86.264532   0.311046
 0.001735  0.809597  70.763825
 1.00000   0.444915 114.196645   0.311046
 0.001735  1.556435  23.284361

COMB  DESIGN ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.352348 -114.065006  -0.612225
-0.001744  -1.472430  -75.705239
 0.25000  -0.352348  -86.506138  -0.612225
-0.001744  -0.717915  -27.672389
 0.50000  -0.352348  -60.089460  -0.612225
-0.001744  -0.040163  -26.109959
 0.75000  -0.352348  -32.030484  -0.612225
-0.001744  -0.401654  -24.677737
 1.00000  -0.352348  -12.023823  -0.612225
-0.001744  -0.786263  -72.764035

ELEM      480 ================== LENGTH
=     4.942797

COMB DB-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.072621   0.184606   0.071030
 0.001264  0.186961   2.177185
 0.25000   0.072621   0.211566   0.071030
 0.001264  0.099186   2.039949
 0.50000   0.072621   0.244979   0.071030
 0.001264  0.011294   1.866140
 0.75000   0.072621   0.274234   0.071030
 0.001264  0.134966   1.654805
 1.00000   0.072621   0.309324   0.071030
 0.001264  0.285971   1.466754

COMB DB-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.019354  -0.198103  -0.122207
-7.73E-07  -0.318073  -0.598386
 0.25000  -0.019354  -0.167711  -0.122207
-7.73E-07  -0.167062  -0.461771
 0.50000  -0.019354  -0.136067  -0.122207
-7.73E-07  -0.015905  -0.363090
 0.75000  -0.019354  -0.104657  -0.122207
-7.73E-07   0.076352  -0.277093
 1.00000  -0.019354  -0.085372  -0.122207
-7.73E-07  -0.164128  -0.269154

COMB DB-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.273113   0.880714   0.114135
 0.002245  0.300233   5.464564
 0.25000   0.273113   1.635592   0.114135
 0.002245  0.159462   6.482280
 0.50000   0.273113   2.571138   0.114135
 0.002245  0.018708   6.338854
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                4906

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T         M2         M3
 0.75000   0.273113   3.390280   0.114135
 0.002245  0.247167   4.806823
 1.00000   0.273113   4.372798   0.114135
 0.002245  0.522770   3.354215

COMB DB-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.014504  -3.672656  -0.223182
-5.33E-06  -0.580387  -3.217677
 0.25000  -0.014504  -2.821666  -0.223182
-5.33E-06  -0.304619  -1.616090
 0.50000  -0.014504  -1.935641  -0.223182
-5.33E-06  -0.028781  -1.075541
 0.75000  -0.014504  -1.056154  -0.223182
-5.33E-06  -0.122817  -0.792258
 1.00000  -0.014504  -0.516194  -0.223182
-5.33E-06  -0.263907  -2.773145

COMB DB-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.400715   1.496312   0.134685
 0.002674  0.353532   9.660833
 0.25000   0.400715   1.520576   0.134685
 0.002674  0.187009   8.050565
 0.50000   0.400715   1.550647   0.134685
 0.002674  0.019990   6.481334
 0.75000   0.400715   1.576977   0.134685
 0.002674  0.336861   5.115321
 1.00000   0.400715   1.608558   0.134685
 0.002674  0.710990   3.982561

COMB DB-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.016555  -0.297134  -0.302878
-6.96E-07  -0.786137  -1.377561
 0.25000  -0.016555  -0.269781  -0.302878
-6.96E-07  -0.411880  -1.106742
 0.50000  -0.016555  -0.241301  -0.302878
-6.96E-07  -0.037663  -0.870062
 0.75000  -0.016555  -0.213032  -0.302878
-6.96E-07  -0.145669  -0.720821
 1.00000  -0.016555  -0.195676  -0.302878
-6.96E-07  -0.312163  -0.748945

COMB DB-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.344545   4.054886   0.144019
 0.002337  0.378102  19.612411
 0.25000   0.344545  18.350385   0.144019
 0.002337  0.206319  49.761272
 0.50000   0.344545  36.067295   0.144019
 0.002337  0.037362  57.074466
 0.75000   0.344545  51.579791   0.144019
 0.002337  0.374517  36.420116
 1.00000   0.344545  70.186224   0.144019
 0.002337  0.796882  15.440784

COMB DB-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.128747  -67.085979  -0.343572
-0.000736  -0.901459  -44.500974
 0.25000  -0.128747  -50.970359  -0.343572
-0.000736  -0.476915  -16.919693
 0.50000  -0.128747  -34.191272  -0.343572
-0.000736  -0.052544   -9.431062
 0.75000  -0.128747  -17.535975  -0.343572
-0.000736  -0.155711   -3.195301
 1.00000  -0.128747   -7.310484  -0.343572
-0.000736  -0.333732  -35.590048

COMB DB-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.252607   0.757600   0.043956
 0.001043  0.115170   4.178964
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                4907

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
      T         M2         M3
 0.25000   0.252607   0.784560   0.043956
 0.001043  0.060792   3.463106
 0.50000   0.252607   0.817973   0.043956
 0.001043  0.006272   2.770265
 0.75000   0.252607   0.847228   0.043956
 0.001043  0.131676   2.118103
 1.00000   0.252607   0.882318   0.043956
 0.001043  0.277325   1.523313

COMB DB-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.003504  -0.205085  -0.117901
-6.82E-06  -0.305489  -0.588186
 0.25000  -0.003504  -0.174692  -0.117901
-6.82E-06  -0.159838  -0.447898
 0.50000  -0.003504  -0.143049  -0.117901
-6.82E-06  -0.014262  -0.345507
 0.75000  -0.003504  -0.111638  -0.117901
-6.82E-06  -0.047718  -0.351359
 1.00000  -0.003504  -0.092354  -0.117901
-6.82E-06  -0.102083  -0.705719

COMB DB-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.347821   4.468489   0.076412
 0.001489  0.199752  19.371934
 0.25000   0.347821  24.041393   0.076412
 0.001489  0.113792  61.897954
 0.50000   0.347821  48.298775   0.076412
 0.001489  0.032106  73.098933
 0.75000   0.347821  69.537948   0.076412
 0.001489  0.254658  45.588442
 1.00000   0.347821  95.013235   0.076412
 0.001489  0.546368  17.342307

COMB DB-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.020968  -91.469254  -0.238450
-0.000123  -0.632316  -59.233502
 0.25000  -0.020968  -69.404304  -0.238450
-0.000123  -0.337674  -22.334753
 0.50000  -0.020968  -46.430957  -0.238450
-0.000123  -0.043187  -12.256130
 0.75000  -0.020968  -23.627099  -0.238450
-0.000123  -0.063412   -3.824489
 1.00000  -0.020968   -9.626709  -0.238450
-0.000123  -0.177908  -48.220050

COMB DB-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.408456   4.192184   0.122566
 0.002340  0.321357  19.398042
 0.25000   0.408456  21.880589   0.122566
 0.002340  0.177516  57.674677
 0.50000   0.408456  43.802446   0.122566
 0.002340  0.037484  67.527488
 0.75000   0.408456  62.996691   0.122566
 0.002340  0.383238  42.438857
 1.00000   0.408456  86.019192   0.122566
 0.002340  0.722361  16.700516

COMB DB-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.026102  -82.717596  -0.313001
-0.000111  -0.824873  -54.566488
 0.25000  -0.026102  -62.777081  -0.313001
-0.000111  -0.438105  -20.528170
 0.50000  -0.026102  -42.015631  -0.313001
-0.000111  -0.051401  -11.521281
 0.75000  -0.026102  -21.407357  -0.313001
-0.000111  -0.132886   -3.643746
 1.00000  -0.026102   -8.754932  -0.313001
-0.000111  -0.284434  -43.652074
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                4908

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.350120   3.857559   0.144405
 0.001951  0.379180  19.401195
 0.25000   0.350120  15.463806   0.144405
 0.001951  0.205693  43.180046
 0.50000   0.350120  29.847831   0.144405
 0.001951  0.034454  48.446123
 0.75000   0.350120  42.442135   0.144405
 0.001951  0.377159  31.047326
 1.00000   0.350120  57.548348   0.144405
 0.001951  0.799926  13.597188

COMB DB-G2-4 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.203768  -54.515077  -0.343552
-0.001232  -0.898383  -36.419516
 0.25000  -0.203768  -41.431403  -0.343552
-0.001232  -0.473896  -13.971579
 0.50000  -0.203768  -27.808778  -0.343552
-0.001232  -0.049691   -7.836475
 0.75000  -0.203768  -14.286655  -0.343552
-0.001232  -0.156040   -2.678077
 1.00000  -0.203768   -5.984771  -0.343552
-0.001232  -0.334562  -28.937624

COMB DB-G3-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.017309   0.957670   0.074831
 1.59E-05  0.197071   6.464693
 0.25000   0.017309   0.984630   0.074831
 1.59E-05  0.104608   5.388590
 0.50000   0.017309   1.018042   0.074831
 1.59E-05  0.011952   4.315328
 0.75000   0.017309   1.047297   0.074831
 1.59E-05  0.147046   3.272171
 1.00000   0.017309   1.082387   0.074831
 1.59E-05  0.307528   2.380827

COMB DB-G3-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.299579  -0.230846  -0.129941
-0.001951  -0.334747  -0.667277
 0.25000  -0.299579  -0.200454  -0.129941
-0.001951  -0.174226  -0.503085
 0.50000  -0.299579  -0.168810  -0.129941
-0.001951  -0.014143  -0.376814
 0.75000  -0.299579  -0.137400  -0.129941
-0.001951  -0.080320  -0.258488
 1.00000  -0.299579  -0.118115  -0.129941
-0.001951  -0.172803  -0.220262

COMB DB-G3-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.061220   5.215517   0.105508
 0.000234  0.277238  23.326931
 0.25000   0.061220  29.048088   0.105508
 0.000234  0.157294  75.256618
 0.50000   0.061220  58.584625   0.105508
 0.000234  0.042580  88.984309
 0.75000   0.061220  84.446098   0.105508
 0.000234  0.256997  55.660093
 1.00000   0.061220 115.469593   0.105508
 0.000234  0.551293  21.436085

COMB DB-G3-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.365901 -111.481638  -0.241004
-0.002318  -0.639967  -72.775684
 0.25000  -0.365901  -84.614674  -0.241004
-0.002318  -0.342255  -27.029642
 0.50000  -0.365901  -56.641618  -0.241004
-0.002318  -0.044943  -14.780802
 0.75000  -0.365901  -28.874937  -0.241004
-0.002318  -0.113809   -4.465396
 1.00000  -0.365901  -11.827630  -0.241004
-0.002318  -0.244213  -58.383046
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                4909

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.260678   4.642137   0.129414
 0.001035  0.339535  22.707356
 0.25000   0.260678  20.996027   0.129414
 0.001035  0.186701  57.731907
 0.50000   0.260678  41.263971   0.129414
 0.001035  0.037164  65.221615
 0.75000   0.260678  59.010091   0.129414
 0.001035  0.344545  41.162103
 1.00000   0.260678  80.295640   0.129414
 0.001035  0.731896  16.707698

COMB DB-G3-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.321753  -76.507950  -0.315488
-0.002077  -0.827569  -50.600082
 0.25000  -0.321753  -58.071863  -0.315488
-0.002077  -0.437809  -19.089465
 0.50000  -0.321753  -38.876778  -0.315488
-0.002077  -0.048493  -10.564600
 0.75000  -0.321753  -19.823306  -0.315488
-0.002077  -0.140048   -3.340753
 1.00000  -0.321753   -8.125460  -0.315488
-0.002077  -0.300085  -40.157541

COMB DB-G3-4 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.344916   4.164328   0.149143
 0.001692  0.391654  20.865587
 0.25000   0.344916  17.691469   0.149143
 0.001692  0.213188  48.976508
 0.50000   0.344916  34.456127   0.149143
 0.001692  0.037358  55.423691
 0.75000   0.344916  49.134853   0.149143
 0.001692  0.307915  35.276721
 1.00000   0.344916  66.741224   0.149143
 0.001692  0.805288  14.831792

COMB DB-G3-4 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.272310  -63.334672  -0.346089
-0.001730  -0.905435  -42.214786
 0.25000  -0.272310  -48.085238  -0.346089
-0.001730  -0.477864  -16.089581
 0.50000  -0.272310  -32.207997  -0.346089
-0.001730  -0.049637   -8.977076
 0.75000  -0.272310  -16.447893  -0.346089
-0.001730  -0.161074   -3.003835
 1.00000  -0.272310   -6.772003  -0.346089
-0.001730  -0.345490  -33.541585

COMB DL-G1-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.068469   0.230203   0.136922
 0.001406  0.359609   2.573707
 0.25000   0.068469   0.244058   0.136922
 0.001406  0.190239   2.356312
 0.50000   0.068469   0.264818   0.136922
 0.001406  0.020099   2.124944
 0.75000   0.068469   0.286032   0.136922
 0.001406  0.260169   1.875311
 1.00000   0.068469   0.302058   0.136922
 0.001406  0.554472   1.634950

COMB DL-G1-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.035956  -0.181287  -0.238046
-5.16E-07  -0.621528  -0.766319
 0.25000  -0.035956  -0.161471  -0.238046
-5.16E-07  -0.327107  -0.609976
 0.50000  -0.035956  -0.139392  -0.238046
-5.16E-07  -0.031956  -0.484590
 0.75000  -0.035956  -0.120411  -0.238046
-5.16E-07  -0.147745  -0.370954
 1.00000  -0.035956  -0.115361  -0.238046
-5.16E-07  -0.317108  -0.296875
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                4910

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.250955   0.909043   0.227421
 0.002542  0.597352   5.986383
 0.25000   0.250955   1.310815   0.227421
 0.002542  0.316310   5.890084
 0.50000   0.250955   1.912858   0.227421
 0.002542  0.033404   5.368690
 0.75000   0.250955   2.528070   0.227421
 0.002542  0.454694   4.209444
 1.00000   0.250955   2.992825   0.227421
 0.002542  0.967464   3.131226

COMB DL-G1-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.029231  -2.360603  -0.414419
-3.33E-06  -1.079644  -2.489893
 0.25000  -0.029231  -1.785930  -0.414419
-3.33E-06  -0.566755  -1.504884
 0.50000  -0.029231  -1.145633  -0.414419
-3.33E-06  -0.053519  -1.082391
 0.75000  -0.029231  -0.595187  -0.414419
-3.33E-06  -0.245706  -0.937183
 1.00000  -0.029231  -0.448740  -0.414419
-3.33E-06  -0.526887  -1.964270

COMB DL-G1-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.370645   1.691786   0.255732
 0.002798  0.670996  10.273756
 0.25000   0.370645   1.704257   0.255732
 0.002798  0.354772   8.542969
 0.50000   0.370645   1.722941   0.255732
 0.002798  0.036972   6.814304
 0.75000   0.370645   1.742033   0.255732
 0.002798  0.581354   5.306846
 1.00000   0.370645   1.756457   0.255732
 0.002798  1.232010   4.023051

COMB DL-G1-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.034940  -0.404063  -0.526094
-1.21E-05  -1.366862  -1.807393
 0.25000  -0.034940  -0.386228  -0.526094
-1.21E-05  -0.716049  -1.481073
 0.50000  -0.034940  -0.366357  -0.526094
-1.21E-05  -0.065185  -1.174218
 0.75000  -0.034940  -0.349274  -0.526094
-1.21E-05  -0.277413  -1.011281
 1.00000  -0.034940  -0.344729  -0.526094
-1.21E-05  -0.593665  -0.905763

COMB DL-G1-4 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.329305   3.734678   0.267309
 0.002424  0.709228  16.555599
 0.25000   0.329305  13.429159   0.267309
 0.002424  0.381022  32.428327
 0.50000   0.329305  27.956028   0.267309
 0.002424  0.051568  37.663214
 0.75000   0.329305  42.800666   0.267309
 0.002424  0.635343  23.710353
 1.00000   0.329305  54.014883   0.267309
 0.002424  1.346393  10.462321

COMB DL-G1-4 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.126924  -52.417429  -0.576753
-0.000763  -1.505177  -31.045187
 0.25000  -0.126924  -38.550958  -0.576753
-0.000763  -0.792039  -12.218268
 0.50000  -0.126924  -23.101038  -0.576753
-0.000763  -0.079425   -6.895015
 0.75000  -0.126924   -9.819147  -0.576753
-0.000763  -0.289930   -2.466788
 1.00000  -0.126924   -6.285488  -0.576753
-0.000763  -0.620061  -25.311386
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING          LOAD              >
                                4911

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.226738   0.829818   0.090180
 0.001096  0.236437   4.340750
 0.25000   0.226738   0.842872   0.090180
 0.001096  0.125012   3.517567
 0.50000   0.226738   0.863633   0.090180
 0.001096  0.012473   2.719300
 0.75000   0.226738   0.884847   0.090180
 0.001096  0.214896   2.051516
 1.00000   0.226738   0.900873   0.090180
 0.001096  0.454320   1.443308

COMB DL-G2-1 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.005333  -0.211963  -0.193616
-4.26E-06  -0.501690  -0.712913
 0.25000  -0.005333  -0.192147  -0.193616
-4.26E-06  -0.262125  -0.567019
 0.50000  -0.005333  -0.170068  -0.193616
-4.26E-06  -0.022553  -0.421618
 0.75000  -0.005333  -0.151087  -0.193616
-4.26E-06  -0.098311  -0.486815
 1.00000  -0.005333  -0.146037  -0.193616
-4.26E-06  -0.209381  -0.707642

COMB DL-G2-2 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.321728   4.102308   0.139186
 0.001373  0.376956  15.435160
 0.25000   0.321728  18.857038   0.139186
 0.001373  0.208408  41.199107
 0.50000   0.321728  34.066528   0.139186
 0.001373  0.039017  50.783097
 0.75000   0.321728  63.559654   0.139186
 0.001373  0.397456  30.743934
 1.00000   0.321728  80.627379   0.139186
 0.001373  0.841700  11.443191

COMB DL-G2-2 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.024916  -79.192470  -0.361839
-0.000107  -0.949023  -45.611015
 0.25000  -0.024916  -58.988048  -0.361839
-0.000107  -0.501692  -17.190184
 0.50000  -0.024916  -34.573740  -0.361839
-0.000107  -0.055613   -9.319854
 0.75000  -0.024916  -14.359071  -0.361839
-0.000107  -0.152277   -2.760883
 1.00000  -0.024916   -8.980940  -0.361839
-0.000107  -0.323796  -37.701943

COMB DL-G2-3 ------------------ MAX

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000   0.380326   3.930295   0.230921
 0.002393  0.616702  16.195643
 0.25000   0.380326  17.284365   0.230921
 0.002393  0.334259  39.250515
 0.50000   0.380326  37.295010   0.230921
 0.002393  0.050591  47.664980
 0.75000   0.380326  57.743380   0.230921
 0.002393  0.562431  29.240601
 1.00000   0.380326  73.190873   0.230921
 0.002393  1.193838  11.478518

COMB DL-G2-3 ------------------ MIN

 REL DIST          P          V2          V3
      T         M2         M3
 0.00000  -0.033863  -71.743512  -0.512746
-9.71E-05  -1.341848  -41.840934
 0.25000  -0.033863  -52.642560  -0.512746
-9.71E-05  -0.707816  -16.025138
 0.50000  -0.033863  -31.360419  -0.512746
-9.71E-05  -0.074500   -8.809149
 0.75000  -0.033863  -13.064720  -0.512746
```

-9.71E-05 -0.251037 -2.759377
1.00000 -0.033863 -8.197133 -0.512746
-9.71E-05 -0.536118 -34.281180
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4912

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.333564 3.652405 0.263187
0.001979 0.697151 16.885120
0.25000 0.333564 11.705162 0.263187
0.001979 0.373408 29.452849
0.50000 0.333564 23.771961 0.263187
0.001979 0.048709 33.196566
0.75000 0.333564 36.102717 0.263187
0.001979 0.635574 20.985922
1.00000 0.333564 45.417848 0.263187
0.001979 1.344353 9.433943

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.184502 -43.592760 -0.574677
-0.001307 -1.496772 -26.122196
0.25000 -0.184502 -32.074524 -0.574677
-0.001307 -0.786359 -10.421360
0.50000 -0.184502 -19.240989 -0.574677
-0.001307 -0.076444 -5.939989
0.75000 -0.184502 -8.208335 -0.574677
-0.001307 -0.285440 -2.184132
1.00000 -0.184502 -5.273088 -0.574677
-0.001307 -0.610515 -21.091381

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.021717 1.049586 0.120906
1.33E-05 0.317481 6.446919
0.25000 0.021717 1.063440 0.120906
1.33E-05 0.167796 5.336220
0.50000 0.021717 1.084200 0.120906
1.33E-05 0.018536 4.212497
0.75000 0.021717 1.105414 0.120906
1.33E-05 0.266543 3.133750
1.00000 0.021717 1.121440 0.120906
1.33E-05 0.560131 2.169653

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.264056 -0.209902 -0.237695
-0.002157 -0.614872 -0.789411
0.25000 -0.264056 -0.190085 -0.237695
-0.002157 -0.321212 -0.626991
0.50000 -0.264056 -0.168006 -0.237695
-0.002157 -0.027695 -0.486191
0.75000 -0.264056 -0.149025 -0.237695
-0.002157 -0.130177 -0.346566
1.00000 -0.264056 -0.143975 -0.237695
-0.002157 -0.279836 -0.249648

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.066365 5.207332 0.171231
0.000187 0.466266 19.332880
0.25000 0.066365 26.154891 0.171231
0.000187 0.259245 56.522773
0.50000 0.066365 57.544139 0.171231
0.000187 0.053565 70.709612
0.75000 0.066365 89.620014 0.171231
0.000187 0.436145 42.738434
1.00000 0.066365 113.851375 0.171231
0.000187 0.922566 15.784245

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.318394 -112.422628 -0.397367
-0.002488 -1.045787 -64.196297
0.25000 -0.318394 -82.460351 -0.397367
-0.002488 -0.555003 -23.950277
0.50000 -0.318394 -49.076600 -0.397367
-0.002488 -0.065798 -12.887973
0.75000 -0.318394 -20.377465 -0.397367
-0.002488 -0.316274 -3.610204
1.00000 -0.318394 -12.742034 -0.397367
-0.002488 -0.396214 -53.033741
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4913

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.246417 4.829982 0.217706
0.000883 0.583391 20.157392
0.25000 0.246417 19.929682 0.217706
0.000883 0.317680 45.778126
0.50000 0.246417 42.556098 0.217706
0.000883 0.051856 54.850517
0.75000 0.246417 65.677458 0.217706
0.000883 0.567498 33.536403
1.00000 0.246417 83.144230 0.217706
0.000883 1.197847 13.066310

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.282473 -81.097406 -0.512780
-0.002235 -1.339137 -47.098350
0.25000 -0.282473 -59.499597 -0.512780
-0.002235 -0.705706 -17.933668
0.50000 -0.282473 -35.435477 -0.512780
-0.002235 -0.073411 -9.799807
0.75000 -0.282473 -14.748184 -0.512780
-0.002235 -0.236428 -2.877497
1.00000 -0.282473 -9.244311 -0.512780
-0.002235 -0.505151 -38.403830

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.324048 4.362881 0.265116
0.001656 0.705785 19.046561
0.25000 0.324048 16.894011 0.265116
0.001656 0.380849 39.942679
0.50000 0.324048 35.671507 0.265116
0.001656 0.055263 47.112068
0.75000 0.324048 54.859754 0.265116
0.001656 0.641173 29.111841
1.00000 0.324048 69.355300 0.265116
0.001656 1.355866 11.857685

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.242183 -67.377946 -0.580277
-0.001862 -1.513959 -39.568700
0.25000 -0.242183 -49.454084 -0.580277
-0.001862 -0.796725 -15.283837
0.50000 -0.242183 -29.483448 -0.580277
-0.001862 -0.080316 -8.452237
0.75000 -0.242183 -12.315215 -0.580277
-0.001862 -0.287320 -2.717391
1.00000 -0.242183 -7.747591 -0.580277
-0.001862 -0.614798 -32.251595

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.408456 5.215517 0.149143
0.002674 0.391654 23.326901
0.25000 0.408456 29.048088 0.149143
0.002674 0.213188 75.256618
0.50000 0.408456 58.584625 0.149143
0.002674 0.042580 88.984309
0.75000 0.408456 84.446098 0.149143
0.002674 0.379715 55.660993
1.00000 0.408456 115.465593 0.149143
0.002674 0.805288 21.436085

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.365901 -111.481638 -0.346089
-0.002318 -0.905435 -72.775684
0.25000 -0.365901 -84.614674 -0.346089
-0.002318 -0.477864 -27.029642
0.50000 -0.365901 -56.641618 -0.346089
-0.002318 -0.052544 -14.780802
0.75000 -0.365901 -28.874937 -0.346089
-0.002318 -0.161074 -4.465396
1.00000 -0.365901 -11.827630 -0.346089
-0.002318 -0.345490 -58.383046
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4914

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.380326 5.207332 0.267309
0.002798 0.709228 20.157392
0.25000 0.380326 26.154891 0.267309
0.002798 0.381022 56.522773
0.50000 0.380326 57.544139 0.267309
0.002798 0.055263 70.709612
0.75000 0.380326 89.620014 0.267309
0.002798 0.641173 42.738434
1.00000 0.380326 113.851375 0.267309
0.002798 1.355866 15.784245

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.318394 -112.422628 -0.580277
-0.002488 -1.513959 -64.196297
0.25000 -0.318394 -82.460351 -0.580277
-0.002488 -0.796725 -23.950277
0.50000 -0.318394 -49.076600 -0.580277
-0.002488 -0.080316 -12.887973
0.75000 -0.318394 -20.377465 -0.580277
-0.002488 -0.289930 -3.510204
1.00000 -0.318394 -12.742034 -0.580277
-0.002488 -0.620061 -53.033741

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.408456 5.215517 0.267309
0.002798 0.709228 23.326901
0.25000 0.408456 29.048088 0.267309
0.002798 0.381022 75.256618
0.50000 0.408456 58.584625 0.267309
0.002798 0.055263 88.984309
0.75000 0.408456 89.620014 0.267309
0.002798 0.641173 55.660993
1.00000 0.408456 115.465593 0.267309
0.002798 1.355866 21.436085

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.365901 -112.422628 -0.580277
-0.002488 -1.513959 -72.775684
0.25000 -0.365901 -84.614674 -0.580277
-0.002488 -0.796725 -27.029642
0.50000 -0.365901 -56.641618 -0.580277
-0.002488 -0.080316 -14.780802
0.75000 -0.365901 -28.874937 -0.580277
-0.002488 -0.289930 -4.465396
1.00000 -0.365901 -12.742034 -0.580277
-0.002488 -0.620061 -58.383046
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4915

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 481 ========== LENGTH = 1.482588

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.032518 1.062371 0.682368
0.001965 0.487963 1.527321
0.25000 0.032518 1.085071 0.682368
0.001965 0.235046 1.158799
0.50000 0.032518 1.111663 0.682368
0.001965 0.031793 0.776460
0.75000 0.032518 1.140850 0.682368
0.001965 0.472381 0.375530
1.00000 0.032518 1.171331 0.682368
0.001965 0.912907 0.031831

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.011091 -0.292686 -1.188534
-1.01E-06 -0.849199 -0.294922
0.25000 -0.011091 -0.276611 -1.188534
-1.01E-06 -0.408696 -0.216120
0.50000 -0.011091 -0.256005 -1.188534
-1.01E-06 -0.017826 -0.137316
0.75000 -0.011091 -0.232491 -1.188534
-1.01E-06 -0.270790 -0.058484
1.00000 -0.011091 -0.212634 -1.188534
-1.01E-06 -0.523707 -0.051724

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.140856 2.392093 1.099347
0.003476 0.786143 3.459780
0.25000 0.140856 3.027678 1.099347
0.003476 0.378670 3.280012
0.50000 0.140856 3.772265 1.099347
0.003476 0.059648 2.710284
0.75000 0.140856 4.589485 1.099347
0.003476 0.882301 1.615693
1.00000 0.140856 5.442968 1.099347
0.003476 1.705664 0.051614

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.010388 -4.138404 -2.221443
-7.68E-06 -1.587847 -2.796497
0.25000 -0.010388 -3.688321 -2.221443
-7.68E-06 -0.765125 -2.093407
0.50000 -0.010388 -3.111354 -2.221443
-7.68E-06 -0.029626 -1.390307
0.75000 -0.010388 -2.452953 -2.221443
-7.68E-06 -0.436261 -0.687104
1.00000 -0.010388 -1.896965 -2.221443
-7.68E-06 -0.843735 -0.097468

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.207556 2.838448 1.308569
0.004249 0.935734 4.109436
0.25000 0.207556 2.858877 1.308569
0.004249 0.450714 3.080297
0.50000 0.207556 2.882810 1.308569
0.004249 0.080499 2.038792
0.75000 0.207556 2.909078 1.308569
0.004249 1.216209 0.980411
1.00000 0.207556 2.936511 1.308569
0.004249 2.351784 0.060737

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.011276 -0.636789 -3.063766
-9.11E-07 -2.190518 -0.798645
0.25000 -0.011276 -0.622323 -3.063766
-9.11E-07 -1.054964 -0.589338
0.50000 -0.011276 -0.603777 -3.063766
-9.11E-07 -0.033995 -0.380006
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4916

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.011276 -0.582614 -3.063766
-9.11E-07 -0.519314 -0.170515
1.00000 -0.011276 -0.564743 -3.063766
-9.11E-07 -1.004335 -0.133399

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.178177 10.561208 1.400547
0.003809 1.001536 15.565508
0.25000 0.178177 22.597595 1.400547
0.003809 0.482426 25.036291
0.50000 0.178177 36.698222 1.400547
0.003809 0.105838 27.115516
0.75000 0.178177 52.174328 1.400547
0.003809 1.360419 19.253196
1.00000 0.178177 68.337150 1.400547
0.003809 2.630981 0.073379

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.070351 -66.487920 -3.428397
-0.000998 -0.462432 -35.614922
0.25000 -0.070351 -57.964472 -3.428397
-0.000998 -1.193991 -26.704338
0.50000 -0.070351 -47.038149 -3.428397
-0.000998 -0.056879 -17.793734
0.75000 -0.070351 -34.569677 -3.428397
-0.000998 -0.555787 -8.882997
1.00000 -0.070351 -24.046857 -3.428397
-0.000998 -1.074898 -0.151672

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.136454 1.087509 0.430168
0.001665 0.307598 1.566505
0.25000 0.136454 1.110248 0.430168
0.001665 0.148154 1.190105
0.50000 0.136454 1.136841 0.430168
0.001665 0.031831 0.800917
0.75000 0.136454 1.166027 0.430168
0.001665 0.484602 0.393779
1.00000 0.136454 1.196509 0.430168
0.001665 0.937339 0.019752

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.001729 -0.542328 -1.221479
-8.67E-06 -0.873611 -0.696183
0.25000 -0.001729 -0.526253 -1.221479
-8.67E-06 -0.420897 -0.524844
0.50000 -0.001729 -0.505647 -1.221479
-8.67E-06 -0.031192 -0.353505
0.75000 -0.001729 -0.482133 -1.221479
-8.67E-06 -0.170720 -0.182165
1.00000 -0.001729 -0.462276 -1.221479
-8.67E-06 -0.330164 -0.053661

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.185093 11.786365 0.755242
0.002449 0.540040 17.419256
0.25000 0.185093 28.266170 0.755242
0.002449 0.260109 31.377076
0.50000 0.185093 47.572262 0.755242
0.002449 0.083337 35.214434
0.75000 0.185093 68.761612 0.755242
0.002449 0.938453 25.440171
1.00000 0.185093 90.891191 0.755242
0.002449 1.815552 0.046495

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.011908 -90.643871 -2.366999
-0.000180 -1.694437 -48.218599
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4917

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 -0.011908 -78.973860 -2.366999
-0.000180 -0.833933 -36.162739
0.50000 -0.011908 -64.013916 -2.366999
-0.000180 -0.047876 -24.106863
0.75000 -0.011908 -46.942513 -2.366999
-0.000180 -0.299741 -12.050913
1.00000 -0.011908 -32.526543 -2.366999
-0.000180 -0.579673 -0.102949

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.214495 11.403438 1.196757
0.003735 0.855773 16.817832
0.25000 0.214495 26.296551 1.196757
0.003735 0.412196 29.153201
0.50000 0.214495 43.743834 1.196757
0.003735 0.100944 32.342584
0.75000 0.214495 62.893052 1.196757
0.003735 1.231621 23.230890
1.00000 0.214495 82.891973 1.196757
0.003735 2.382077 0.066010

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.013468 -81.995727 -3.104456
-0.000163 -2.221188 -43.674380
0.25000 -0.013468 -71.449316 -3.104456
-0.000163 -1.085729 -32.749936
0.50000 -0.013468 -57.929730 -3.104456
-0.000163 -0.056673 -21.825468
0.75000 -0.013468 -42.501979 -3.104456
-0.000163 -0.474948 -10.900901
1.00000 -0.013468 -29.473992 -3.104456
-0.000163 -0.918524 -0.135483

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.183259 9.312813 1.405140
0.003305 1.004832 13.716524
0.25000 0.183259 19.084928 1.405140
0.003305 0.483996 21.131945
0.50000 0.183259 30.532962 1.405140
0.003305 0.103920 22.546239
0.75000 0.183259 43.097721 1.405140
0.003305 1.379673 15.889182
1.00000 0.183259 56.220013 1.405140
0.003305 2.668365 0.071817

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.106353 -54.013653 -3.477227
-0.001751 -2.487347 -28.961356
0.25000 -0.106353 -47.093626 -3.477227
-0.001751 -1.204496 -21.714647
0.50000 -0.106353 -38.222750 -3.477227
-0.001751 -0.053103 -14.467916
0.75000 -0.106353 -28.099832 -3.477227
-0.001751 -0.557549 -7.221104
1.00000 -0.106353 -19.551519 -3.477227
-0.001751 -1.078390 -0.156840

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.008064 1.663422 0.723479
2.92E-05 0.517440 2.424016
0.25000 0.008064 1.686122 0.723479
2.92E-05 0.249285 1.832716
0.50000 0.008064 1.712714 0.723479
2.92E-05 0.036123 1.227450
0.75000 0.008064 1.741901 0.723479
2.92E-05 0.545957 0.603475
1.00000 0.008064 1.772382 0.723479
2.92E-05 1.055726 0.031971
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4918

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.156648 -0.252311 -1.375350
-0.002940 -0.983353 -0.239148
0.25000 -0.156648 -0.236237 -1.375350
-0.002940 -0.473606 -0.175314
0.50000 -0.156648 -0.215631 -1.375350
-0.002940 -0.036782 -0.111437
0.75000 -0.156648 -0.192116 -1.375350
-0.002940 -0.287026 -0.047598
1.00000 -0.156648 -0.172260 -1.375350
-0.002940 -0.555181 -0.070758

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.030077 14.539093 1.027883
0.000450 0.735120 21.502490
0.25000 0.030077 34.605412 1.027883
0.000450 0.354138 38.428439
0.50000 0.030077 58.113105 1.027883
0.000450 0.089292 43.031342
0.75000 0.030077 83.913911 1.027883
0.000450 0.952002 31.060349
1.00000 0.030077 110.859569 1.027883
0.000450 1.841440 0.061328

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.193116 -110.140130 -2.400419
-0.003477 -1.718251 -58.372501
0.25000 -0.193116 -95.930364 -2.400419
-0.003477 -0.849021 -43.778414
0.50000 -0.193116 -77.714675 -2.400419
-0.003477 -0.060896 -29.184277
0.75000 -0.193116 -56.928008 -2.400419
-0.003477 -0.407826 -14.590185
1.00000 -0.193116 -39.374678 -2.400419
-0.003477 -0.788808 -0.115830

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.136740 11.386719 1.266228
0.001712 0.905529 16.804452
0.25000 0.136740 25.156209 1.266228
0.001712 0.436205 27.896388
0.50000 0.136740 41.287167 1.266228
0.001712 0.101989 30.532302
0.75000 0.136740 58.991657 1.266228
0.001712 1.274497 21.795202
1.00000 0.136740 77.481743 1.266228
0.001712 2.465276 0.067779

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.169242 -75.680345 -3.213204
-0.003060 -2.299170 -40.182505
0.25000 -0.169242 -65.929616 -3.213204
-0.003060 -1.122257 -30.130146
0.50000 -0.169242 -53.430027 -3.213204
-0.003060 -0.056286 -20.077728
0.75000 -0.169242 -39.166235 -3.213204

```
-0.003060   -0.502442   -10.025281
 1.00000    -0.169242   -27.121155    -3.213204
-0.003060   -0.971765    -0.149900

COMB DB-G3-4 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.181996    10.152897    1.452142
 0.002723   1.038472    14.953938
0.25000    0.181996    21.542350    1.452142
 0.002723   0.500238    23.856512
0.50000    0.181996    34.885093    1.452142
 0.002723   0.107037    25.764675
0.75000    0.181996    49.529385    1.452142
 0.002723   1.395936    18.265634
1.00000    0.181996    64.823485    1.452142
 0.002723   2.699884    0.074926
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                 4919

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.142498   -62.829729   -3.518446
-0.002550   -2.517007   -33.572080
0.25000   -0.142498   -54.764401   -3.518446
-0.002550   -1.224529   -25.171774
0.50000   -0.142498   -44.425349   -3.518446
-0.002550   -0.057075   -16.771411
0.75000   -0.142498   -32.627034   -3.518446
-0.002550   -0.576221    -8.372109
1.00000   -0.142498   -22.663931   -3.518446
-0.002550   -1.114456    -0.162126

COMB DL-G1-1 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.029564    1.372330    1.322461
0.002278   0.945576    1.756579
0.25000    0.029564    1.380416    1.322461
0.002278   0.455416    1.300121
0.50000    0.029564    1.395457    1.322461
0.002278   0.059298    0.842552
0.75000    0.029564    1.412352    1.322461
0.002278   0.915371    0.388535
1.00000    0.029564    1.430437    1.322461
0.002278   1.769793    0.057094

COMB DL-G1-1 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.019597   -0.346326   -2.304906
-7.31E-07   -1.647114    -0.374707
0.25000   -0.019597   -0.332417   -2.304906
-7.31E-07   -0.792603    -0.264715
0.50000   -0.019597   -0.316797   -2.304906
-7.31E-07   -0.034262    -0.155153
0.75000   -0.019597   -0.305511   -2.304906
-7.31E-07   -0.524809    -0.060189
1.00000   -0.019597   -0.305237   -2.304906
-7.31E-07   -1.014989    -0.104161

COMB DL-G1-2 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.126631    2.693433    2.201893
0.003977   1.574444    3.342064
0.25000    0.126631    2.927929    2.201893
0.003977   0.758319    2.663595
0.50000    0.126631    3.364110    2.201893
0.003977   0.105214    1.953213
0.75000    0.126631    3.854064    2.201893
0.003977   1.630110    1.036433
1.00000    0.126631    4.378536    2.201893
0.003977   3.152729    0.095425

COMB DL-G1-2 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.014688   -2.907440   -4.107222
-5.03E-06   -2.953847   -2.083737
0.25000   -0.014688   -2.504099   -4.107222
-5.03E-06   -1.413562   -1.512223
0.50000   -0.014688   -2.051096   -4.107222
-5.03E-06   -0.057610    -0.976049
0.75000   -0.014688   -1.723628   -4.107222
-5.03E-06   -0.817832    -0.461243
1.00000   -0.014688   -1.715863   -4.107222
-5.03E-06   -1.689967    -0.185140

COMB DL-G1-3 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.188779    3.469232    2.486956
0.004599   1.778465    4.284696
0.25000    0.188779    3.476509    2.486956
0.004599   0.856968    3.167717
0.50000    0.188779    3.490046    2.486956
0.004599   0.135755    2.049828
0.75000    0.188779    3.505251    2.486956
0.004599   2.101581    0.940892
1.00000    0.188779    3.521528    2.486956
0.004599   4.065081    0.107699
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                 4920

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.018173   -0.871345   -5.296535
-1.68E-05   -3.785960    -1.042584
0.25000   -0.018173   -0.858827   -5.296535
-1.68E-05   -1.822401    -0.753767
0.50000   -0.018173   -0.844769   -5.296535
-1.68E-05   -0.064782    -0.465186
0.75000   -0.018173   -0.834612   -5.296535
-1.68E-05   -0.987692    -0.196053
1.00000   -0.018173   -0.834365   -5.296535
-1.68E-05   -1.908997    -0.231841

COMB DL-G1-4 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.167263    9.186892    2.608806
0.004060   1.865868    10.715893
0.25000    0.167263    14.845103    2.608806
 0.004060   0.899509    12.800693
0.50000    0.167263    25.369838    2.608806
 0.004060   0.157415    14.120129
0.75000    0.167263    37.192092    2.608806
 0.004060   2.299784    10.055434
1.00000    0.167263    49.847235    2.608806
 0.004060   4.450608    0.118579

COMB DL-G1-4 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.066807   -49.575310   -5.802360
-0.001119   -4.151487   -25.419979
0.25000   -0.066807   -39.842979   -5.802360
-0.001119   -2.009465   -18.379057
0.50000   -0.066807   -28.912319   -5.802360
-0.001119   -0.086860   -12.221302
0.75000   -0.066807   -21.015579   -5.802360
-0.001119   -1.035496   -6.081634
1.00000   -0.066807   -20.823391   -5.802360
-0.001119   -2.002117    -0.256560

COMB DL-G2-1 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.121371    1.277583    0.880686
0.001808   0.629797    1.541253
0.25000    0.121371    1.285669    0.880686
0.001808   0.303434    1.142809
0.50000    0.121371    1.300709    0.880686
0.001808   0.050552    0.743371
0.75000    0.121371    1.317604    0.880686
0.001808   0.794279    0.340855
1.00000    0.121371    1.335690    0.880686
0.001808   1.536985    0.038416

COMB DL-G2-1 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.002147   -0.650228   -2.003141
-5.93E-06   -1.432354    -0.747656
0.25000   -0.002147   -0.636320   -2.003141
-5.93E-06   -0.689672    -0.552260
0.50000   -0.002147   -0.620699   -2.003141
-5.93E-06   -0.022605    -0.357946
0.75000   -0.002147   -0.609414   -2.003141
-5.93E-06   -0.349606    -0.168186
1.00000   -0.002147   -0.609139   -2.003141
-5.93E-06   -0.676013    -0.087715

COMB DL-G2-2 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.169281    10.145182    1.372701
 0.002445   0.982480    11.603614
0.25000    0.169281    18.756837    1.372701
 0.002445   0.474412    15.998898
0.50000    0.169281    34.775190    1.372701
 0.002445   0.106422    19.227109
0.75000    0.169281    52.768331    1.372701
 0.002445   1.456939    14.244571
1.00000    0.169281    72.029106    1.372701
 0.002445   2.822767    0.067988
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                 4921

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.012872   -74.699698   -3.684356
-0.000164   -2.639786   -37.754845
0.25000   -0.012872   -59.887362   -3.684356
-0.000164   -1.287434   -27.297208
0.50000   -0.012872   -43.251202   -3.684356
-0.000164   -0.065149   -18.181424
0.75000   -0.012872   -31.232583   -3.684356
-0.000164   -0.545243    -9.073175
1.00000   -0.012872   -30.940079   -3.684356
-0.000164   -1.053626    -0.157086

COMB DL-G2-3 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.196134    10.131310    2.256862
 0.003931   1.614599    11.720038
0.25000    0.196134    17.925464    2.256862
 0.003931   0.778729    15.374123
0.50000    0.196134    32.423201    2.256862
 0.003931   0.143178    17.971847
0.75000    0.196134    48.708261    2.256862
 0.003931   2.042538    13.146675
1.00000    0.196134    66.140619    2.256862
 0.003931   3.954868    0.105816

COMB DL-G2-3 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.016379   -67.755001   -5.158280
-0.000149   -3.692674   -34.381389
0.25000   -0.016379   -54.348794   -5.158280
-0.000149   -1.792384   -24.853623
0.50000   -0.016379   -39.291898   -5.158280
-0.000149   -0.085087   -16.539639
0.75000   -0.016379   -28.414201   -5.158280
-0.000149   -0.896108    -8.225586
1.00000   -0.016379   -28.149465   -5.158280
-0.000149   -1.732310    -0.224654

COMB DL-G2-4 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.171435    8.255680    2.572755
0.003446   1.840071    9.672775
0.25000    0.171435    12.955703    2.572755
 0.003446   0.886878    11.203709
0.50000    0.171435    21.698114    2.572755
 0.003446   0.157695    12.100982
0.75000    0.171435    31.518313    2.572755
 0.003446   2.317355    8.526935
1.00000    0.171435    42.030356    2.572755
 0.003446   4.484520    0.116350

COMB DL-G2-4 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.095321   -41.205786   -5.846113
-0.001991   -4.182532   -21.175989
0.25000   -0.095321   -33.121588   -5.846113
-0.001991   -2.022558   -15.311845
0.50000   -0.095321   -24.041994   -5.846113
-0.001991   -0.082511   -10.183720
0.75000   -0.095321   -17.482536   -5.846113
-0.001991   -1.021105    -5.067674
1.00000   -0.095321   -17.322895   -5.846113
-0.001991   -1.974387    -0.261776

COMB DL-G3-1 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.010265    1.797924    1.183566
2.30E-05   0.846133    2.229241
0.25000    0.010265    1.806010    1.183566
2.30E-05   0.407598    1.659391
0.50000    0.010265    1.821050    1.183566
2.30E-05   0.065464    1.096288
0.75000    0.010265    1.837945    1.183566
2.30E-05   0.982575    0.527757
1.00000    0.010265    1.856031    1.183566
2.30E-05   1.899841    0.050783
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                 4922

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.138145   -0.242636   -2.474926
-0.003467   -1.769438    -0.241032
0.25000   -0.138145   -0.228727   -2.474926
-0.003467   -0.852174    -0.174115
0.50000   -0.138145   -0.213107   -2.474926
-0.003467   -0.030417    -0.120888
0.75000   -0.138145   -0.201821   -2.474926
-0.003467   -0.469183    -0.070068
 1.00000   -0.138145   -0.201547   -2.474926
-0.003467   -0.907935    -0.124665

COMB DL-G3-2 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.032736    13.897580    1.689472
 0.000353   1.208761    15.891823
0.25000    0.032736    26.123704    1.689472
 0.000353   0.583024    22.293765
0.50000    0.032736    48.865253    1.689472
 0.000353   0.122767    27.047081
0.75000    0.032736    74.410444    1.689472
 0.000353   1.594186    20.140470
1.00000    0.032736   101.755320    1.689472
 0.000353   3.087912    0.084887

COMB DL-G3-2 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.167965  -105.577076   -4.030789
-0.003945   -2.889831    -53.013832
0.25000   -0.167965   -84.547731   -4.030789
-0.003945   -1.415143    -38.324997
0.50000   -0.167965   -60.929070   -4.030789
-0.003945   -0.084609    -25.553926
0.75000   -0.167965   -43.866017   -4.030789
-0.003945   -0.669499    -12.790060
1.00000   -0.167965   -43.450744   -4.030789
-0.003945   -1.295749    -0.191543

COMB DL-G3-3 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.127929    11.457140    2.143085
 0.001660   1.533166    13.240821
0.25000    0.127929    20.270138    2.143085
 0.001660   0.739372    17.388464
0.50000    0.127929    36.663004    2.143085
 0.001660   0.149203    20.349282
0.75000    0.127929    55.076829    2.143085
 0.001660   2.083544    14.964643
1.00000    0.127929    74.787927    2.143085
 0.001660   4.034176    0.101189

COMB DL-G3-3 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.148470   -76.278050   -5.262188
-0.003505   -3.768027    -38.429658
0.25000   -0.148470   -61.119398   -5.262188
-0.003505   -1.831128    -27.777976
0.50000   -0.148470   -44.094279   -5.262188
-0.003505   -0.084968    -18.511281
0.75000   -0.148470   -31.794662   -5.262188
-0.003505   -0.850030    -9.252033
1.00000   -0.148470   -31.495319   -5.262188
-0.003505   -1.644255    -0.241338

COMB DL-G3-4 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.167872    10.384516    2.596475
 0.002841   1.857223    12.081236
0.25000    0.167872    17.698358    2.596475
 0.002841   0.895439    15.234076
0.50000    0.167872    31.302677    2.596475
 0.002841   0.163539    17.401901
0.75000    0.167872    46.584175    2.596475
 0.002841   2.346067    12.602393
1.00000    0.167872    62.942271    2.596475
 0.002841   4.541205    0.119520
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                 4923

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.125825   -63.617139   -5.921738
-0.002920   -4.238488    -32.306941
0.25000   -0.125825   -51.037085   -5.921738
-0.002920   -2.054716    -23.357402
0.50000   -0.125825   -36.908065   -5.921738
-0.002920   -0.091621    -15.549253
0.75000   -0.125825   -26.700703   -5.921738
-0.002920   -1.035496    -7.741036
1.00000   -0.125825   -26.452280   -5.921738
-0.002920   -1.992397    -0.270808

COMB     DB ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.214495    14.539093    1.452142
 0.004249   1.038472    21.502490
0.25000    0.214495    34.605412    1.452142
 0.004249   0.500238    38.428409
0.50000    0.214495    58.113105    1.452142
 0.004249   0.107037    43.031342
0.75000    0.214495    83.913911    1.452142
 0.004249   1.395936    31.060349
1.00000    0.214495   110.859569    1.452142
 0.004249   2.699884    0.074926

COMB     DB ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.193116  -110.140130   -3.518446
-0.003477   -2.517007    -58.372501
0.25000   -0.193116   -95.930364   -3.518446
-0.003477   -1.224529    -43.778414
0.50000   -0.193116   -77.714675   -3.518446
-0.003477   -0.060896    -29.184277
0.75000   -0.193116   -56.928008   -3.518446
-0.003477   -0.576221    -14.590185
1.00000   -0.193116   -39.374678   -3.518446
-0.003477   -1.114456    -0.162126

COMB     DL ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.196134    13.897580    2.608806
 0.004599   1.865868    15.891823
0.25000    0.196134    26.123704    2.608806
 0.004599   0.899509    22.293765
0.50000    0.196134    48.865253    2.608806
 0.004599   0.163539    27.047081
0.75000    0.196134    74.410444    2.608806
 0.004599   2.346067    20.140470
1.00000    0.196134   101.755320    2.608806
 0.004599   4.541205    0.119520

COMB     DL ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.167965  -105.577076   -5.921738
-0.003945   -4.238488    -53.013832
0.25000   -0.167965   -84.547731   -5.921738
-0.003945   -2.054716    -38.324997
0.50000   -0.167965   -60.929070   -5.921738
-0.003945   -0.091621    -25.553926
0.75000   -0.167965   -43.866017   -5.921738
-0.003945   -1.035496    -12.790060
1.00000   -0.167965   -43.450744   -5.921738
-0.003945   -2.002117    -0.270808

COMB     CAR ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.214495    14.539093    2.608806
 0.004599   1.865868    21.502490
0.25000    0.214495    34.605412    2.608806
 0.004599   0.899509    38.428409
0.50000    0.214495    58.113105    2.608806
 0.004599   0.163539    43.031342
0.75000    0.214495    83.913911    2.608806
 0.004599   2.346067    31.060349
1.00000    0.214495   110.859569    2.608806
 0.004599   4.541205    0.119520
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                 4924

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.193116  -110.140130   -5.921738
-0.003945   -4.238488    -58.372501
0.25000   -0.193116   -95.930364   -5.921738
-0.003945   -2.054716    -43.778414
0.50000   -0.193116   -77.714675   -5.921738
-0.003945   -0.091621    -29.184277
0.75000   -0.193116   -56.928008   -5.921738
-0.003945   -1.035496    -14.590185
1.00000   -0.193116   -43.450744   -5.921738
-0.003945   -2.002117    -0.270808

COMB     DESIGN ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    0.214495    14.539093    2.608806
 0.004599   1.865868    21.502490
0.25000    0.214495    34.605412    2.608806
 0.004599   0.899509    38.428409
0.50000    0.214495    58.113105    2.608806
 0.004599   0.163539    43.031342
0.75000    0.214495    83.913911    2.608806
 0.004599   2.346067    31.060349
1.00000    0.214495   110.859569    2.608806
 0.004599   4.541205    0.119520

COMB     DESIGN ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000   -0.193116  -110.140130   -5.921738
-0.003945   -4.238488    -58.372501
0.25000   -0.193116   -95.930364   -5.921738
-0.003945   -2.054716    -43.778414
0.50000   -0.193116   -77.714675   -5.921738
-0.003945   -0.091621    -29.184277
0.75000   -0.193116   -56.928008   -5.921738
-0.003945   -1.035496    -14.590185
1.00000   -0.193116   -43.450744   -5.921738
-0.003945   -2.002117    -0.270808

ELEM      482 ================== LENGTH
=     1.100000

COMB DB-G1-1 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    36.976435    0.216982    13.541464
 .000000   14.895610    0.336680
0.25000    36.976435    0.216982    13.541464
 .000000   11.171707    0.179010
0.50000    36.976435    0.216982    13.541464
 .000000   7.447805    0.119322
0.75000    36.976435    0.216982    13.541464
 .000000   3.723902    0.059582
1.00000    36.976435    0.216982    13.541464
 .000000   .000000    .000000

COMB DB-G1-1 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000  -540.310213   -1.253847   -78.250512
 .000000   -86.075563   -1.379231
0.25000  -540.310213   -1.253847   -78.250512
 .000000   -64.556672   -1.034423
0.50000  -540.310213   -1.253847   -78.250512
 .000000   -43.037782   -0.689614
0.75000  -540.310213   -1.253847   -78.250512
 .000000   -21.518891   -0.344807
1.00000  -540.310213   -1.253847   -78.250512
 .000000   .000000    .000000

COMB DB-G1-2 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    61.936226    1.680811    104.896654
 .000000   115.386319    1.848892
0.25000    61.936226    1.680811    104.896654
 .000000   86.539739    1.386677
0.50000    61.936226    1.680811    104.896654
 .000000   57.693160    0.924429
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                 4925

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
     T           M2           M3
0.75000    61.936226    1.680811    104.896654
 .000000   28.846580    0.462142
1.00000    61.936226    1.680811    104.896654
 .000000   .000000    .000000

COMB DB-G1-2 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000  -728.428434   -1.318544   -82.288149
 .000000   -90.516964   -1.450398
0.25000  -728.428434   -1.318544   -82.288149
 .000000   -67.887723   -1.087798
0.50000  -728.428434   -1.318544   -82.288149
 .000000   -45.258482   -0.725184
0.75000  -728.428434   -1.318544   -82.288149
 .000000   -22.629241   -0.362543
1.00000  -728.428434   -1.318544   -82.288149
 .000000   .000000    .000000

COMB DB-G1-3 ---------- MAX

REL DIST          P           V2          V3
     T           M2           M3
0.00000    72.136918    1.267126    79.079275
 .000000   86.987203    1.393839
0.25000    72.136918    1.267126    79.079275
 .000000   65.240402    1.045390
0.50000    72.136918    1.267126    79.079275
 .000000   43.493601    0.696907
0.75000    72.136918    1.267126    79.079275
 .000000   21.746801    0.348396
1.00000    72.136918    1.267126    79.079275
 .000000   .000000    .000000

COMB DB-G1-3 ---------- MIN

REL DIST          P           V2          V3
     T           M2           M3
0.00000  -682.779702   -1.209354   -75.473786
 .000000   -83.021165   -1.330289
0.25000  -682.779702   -1.209354   -75.473786
 .000000   -62.265873   -0.997709
0.50000  -682.779702   -1.209354   -75.473786
 .000000   -41.510582   -0.665087
0.75000  -682.779702   -1.209354   -75.473786
 .000000   -20.755291   -0.332492
1.00000  -682.779702   -1.209354   -75.473786
 .000000   .000000    .000000
```

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	93.622433	1.150975	71.830461
.000000	79.013507	1.266072	
0.25000	93.622433	1.150975	71.830461
.000000	59.260131	0.949544	
0.50000	93.622433	1.150975	71.830461
.000000	39.506754	0.633002	
0.75000	93.622433	1.150975	71.830461
.000000	19.753377	0.316403	
1.00000	93.622433	1.150975	71.830461
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-573.009202	-1.798646	-112.250533
.000000	-123.475586	-1.978509	
0.25000	-573.009202	-1.798646	-112.250533
.000000	-92.606689	-1.483875	
0.50000	-573.009202	-1.798646	-112.250533
.000000	-61.737793	-0.989207	
0.75000	-573.009202	-1.798646	-112.250533
.000000	-30.868896	-0.494524	
1.00000	-573.009202	-1.798646	-112.250533
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.421992	1.667728	104.080166
.000000	114.488183	1.834521	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4926
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	25.421992	1.667728	104.080166
.000000	85.866137	1.375891	
0.50000	25.421992	1.667728	104.080166
.000000	57.244091	0.917261	
0.75000	25.421992	1.667728	104.080166
.000000	28.622046	0.458630	
1.00000	25.421992	1.667728	104.080166
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-131.294157	-0.072456	-4.521885
.000000	-4.974074	-0.079702	
0.25000	-131.294157	-0.072456	-4.521885
.000000	-3.730555	-0.059776	
0.50000	-131.294157	-0.072456	-4.521885
.000000	-2.487037	-0.039800	
0.75000	-131.294157	-0.072456	-4.521885
.000000	-1.243518	-0.019849	
1.00000	-131.294157	-0.072456	-4.521885
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	59.372519	1.257418	78.473377
.000000	86.320715	1.383159	
0.25000	59.372519	1.257418	78.473377
.000000	64.740536	1.037356	
0.50000	59.372519	1.257418	78.473377
.000000	43.160358	0.691555	
0.75000	59.372519	1.257418	78.473377
.000000	21.580179	0.345722	
1.00000	59.372519	1.257418	78.473377
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-140.639691	-0.690692	-43.104969
.000000	-47.415466	-0.759761	
0.25000	-140.639691	-0.690692	-43.104969
.000000	-35.561600	-0.569812	
0.50000	-140.639691	-0.690692	-43.104969
.000000	-23.707733	-0.379817	
0.75000	-140.639691	-0.690692	-43.104969
.000000	-11.853867	-0.189858	
1.00000	-140.639691	-0.690692	-43.104969
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	81.854083	1.526866	95.289199
.000000	104.818119	1.679552	
0.25000	81.854083	1.526866	95.289199
.000000	78.613589	1.259684	
0.50000	81.854083	1.526866	95.289199
.000000	52.409059	0.839776	
0.75000	81.854083	1.526866	95.289199
.000000	26.204530	0.419838	
1.00000	81.854083	1.526866	95.289199
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-493.787470	-1.158228	-72.283111
.000000	-79.511422	-1.274049	
0.25000	-493.787470	-1.158228	-72.283111
.000000	-59.633567	-0.955528	
0.50000	-493.787470	-1.158228	-72.283111
.000000	-39.755711	-0.636966	
0.75000	-493.787470	-1.158228	-72.283111
.000000	-19.877856	-0.318449	
1.00000	-493.787470	-1.158228	-72.283111
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4927
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	85.625705	1.427337	89.077745
.000000	97.985520	1.570070	
0.25000	85.625705	1.427337	89.077745
.000000	73.489140	1.177572	
0.50000	85.625705	1.427337	89.077745
.000000	48.992760	0.785039	
0.75000	85.625705	1.427337	89.077745
.000000	24.496380	0.392485	
1.00000	85.625705	1.427337	89.077745
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-415.189512	-1.192996	-74.452911
.000000	-81.898202	-1.312293	
0.25000	-415.189512	-1.192996	-74.452911
.000000	-61.423651	-0.984213	
0.50000	-415.189512	-1.192996	-74.452911
.000000	-40.949101	-0.656098	
0.75000	-415.189512	-1.192996	-74.452911
.000000	-20.474550	-0.328001	
1.00000	-415.189512	-1.192996	-74.452911
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	23.793047	0.348811	21.768704
.000000	23.945574	0.383692	
0.25000	23.793047	0.348811	21.768704
.000000	17.959181	0.287768	
0.50000	23.793047	0.348811	21.768704
.000000	11.972787	0.191844	
0.75000	23.793047	0.348811	21.768704
.000000	5.986394	0.095920	
1.00000	23.793047	0.348811	21.768704
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.923220	-0.117182	-7.313106
.000000	-8.044417	-0.128834	
0.25000	-5.923220	-0.117182	-7.313106
.000000	-6.033313	-0.096630	
0.50000	-5.923220	-0.117182	-7.313106
.000000	-4.022208	-0.064319	
0.75000	-5.923220	-0.117182	-7.313106
.000000	-2.011104	-0.031986	
1.00000	-5.923220	-0.117182	-7.313106
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	70.274853	0.438494	27.365707
.000000	30.102278	0.482344	
0.25000	70.274853	0.438494	27.365707
.000000	22.576708	0.361740	
0.50000	70.274853	0.438494	27.365707
.000000	15.051139	0.241127	
0.75000	70.274853	0.438494	27.365707
.000000	7.525569	0.120485	
1.00000	70.274853	0.438494	27.365707
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-14.378637	-1.198989	-74.826942
.000000	-82.309636	-1.318799	
0.25000	-14.378637	-1.198989	-74.826942
.000000	-61.732227	-0.989005	
0.50000	-14.378637	-1.198989	-74.826942
.000000	-41.154818	-0.659310	
0.75000	-14.378637	-1.198989	-74.826942
.000000	-20.577409	-0.329528	
1.00000	-14.378637	-1.198989	-74.826942
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4928
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	69.588145	0.775790	48.415782
.000000	53.257361	0.853369	
0.25000	69.588145	0.775790	48.415782
.000000	39.943021	0.640015	
0.50000	69.588145	0.775790	48.415782
.000000	26.628680	0.426664	
0.75000	69.588145	0.775790	48.415782
.000000	13.314340	0.213285	
1.00000	69.588145	0.775790	48.415782
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-76.290699	-0.639470	-39.908252
.000000	-43.899077	-0.703335	
0.25000	-76.290699	-0.639470	-39.908252
.000000	-32.924308	-0.527401	
0.50000	-76.290699	-0.639470	-39.908252
.000000	-21.949539	-0.351529	
0.75000	-76.290699	-0.639470	-39.908252
.000000	-10.974769	-0.175644	
1.00000	-76.290699	-0.639470	-39.908252
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	80.227518	1.782664	111.253115
.000000	122.378427	1.960931	
0.25000	80.227518	1.782664	111.253115
.000000	91.783820	1.470689	
0.50000	80.227518	1.782664	111.253115
.000000	61.189213	0.980469	
0.75000	80.227518	1.782664	111.253115
.000000	30.594607	0.490196	
1.00000	80.227518	1.782664	111.253115
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-300.165335	-0.755847	-47.171195
.000000	-51.888314	-0.831373	
0.25000	-300.165335	-0.755847	-47.171195
.000000	-38.916236	-0.623446	
0.50000	-300.165335	-0.755847	-47.171195
.000000	-25.944157	-0.415573	
0.75000	-300.165335	-0.755847	-47.171195
.000000	-12.972079	-0.207646	
1.00000	-300.165335	-0.755847	-47.171195
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	51.020647	0.321671	20.074939
.000000	22.082433	0.353459	
0.25000	51.020647	0.321671	20.074939
.000000	16.040525	0.256700	
0.50000	51.020647	0.321671	20.074939
.000000	11.041217	0.175981	
0.75000	51.020647	0.321671	20.074939
.000000	5.520608	0.087695	
1.00000	51.020647	0.321671	20.074939
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-545.808054	-1.645109	-102.668550
.000000	-112.935405	-1.809617	
0.25000	-545.808054	-1.645109	-102.668550
.000000	-84.701554	-1.357211	
0.50000	-545.808054	-1.645109	-102.668550
.000000	-56.467703	-0.904522	
0.75000	-545.808054	-1.645109	-102.668550
.000000	-28.233851	-0.451444	
1.00000	-545.808054	-1.645109	-102.668550
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4929
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	85.218354	1.650567	103.009187
.000000	113.310105	1.815123	
0.25000	85.218354	1.650567	103.009187
.000000	84.982579	1.360170	
0.50000	85.218354	1.650567	103.009187
.000000	56.655053	0.906575	
0.75000	85.218354	1.650567	103.009187
.000000	28.327526	0.452799	
1.00000	85.218354	1.650567	103.009187
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-745.697751	-1.710878	-106.773095
.000000	-117.450404	-1.881818	
0.25000	-745.697751	-1.710878	-106.773095
.000000	-88.087803	-1.411476	
0.50000	-745.697751	-1.710878	-106.773095
.000000	-58.725202	-0.940461	
0.75000	-745.697751	-1.710878	-106.773095
.000000	-29.362601	-0.468793	
1.00000	-745.697751	-1.710878	-106.773095
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	101.096311	1.413628	88.225126
.000000	97.047639	1.553924	
0.25000	101.096311	1.413628	88.225126
.000000	72.785729	1.163687	
0.50000	101.096311	1.413628	88.225126
.000000	48.523820	0.775393	
0.75000	101.096311	1.413628	88.225126
.000000	24.261910	0.386899	
1.00000	101.096311	1.413628	88.225126
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-707.717849	-1.650514	-103.006593
.000000	-113.307252	-1.815349	
0.25000	-707.717849	-1.650514	-103.006593
.000000	-84.980439	-1.361119	
0.50000	-707.717849	-1.650514	-103.006593
.000000	-56.653626	-0.907078	
0.75000	-707.717849	-1.650514	-103.006593
.000000	-28.326813	-0.451601	
1.00000	-707.717849	-1.650514	-103.006593
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	122.112418	1.290740	80.555306
.000000	88.610836	1.418718	
0.25000	122.112418	1.290740	80.555306
.000000	66.458127	1.062108	
0.50000	122.112418	1.290740	80.555306
.000000	44.305418	0.707602	
0.75000	122.112418	1.290740	80.555306
.000000	22.152709	0.352974	
1.00000	122.112418	1.290740	80.555306
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-595.230228	-1.978486	-123.474662
.000000	-135.822128	-2.176046	
0.25000	-595.230228	-1.978486	-123.474662
.000000	-101.866596	-1.631470	
0.50000	-595.230228	-1.978486	-123.474662
.000000	-67.911064	-1.086956	
0.75000	-595.230228	-1.978486	-123.474662
.000000	-33.955532	-0.541484	
1.00000	-595.230228	-1.978486	-123.474662
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4930
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	34.980378	1.478714	92.284134
.000000	101.512547	1.626154	
0.25000	34.980378	1.478714	92.284134
.000000	76.134410	1.219470	
0.50000	34.980378	1.478714	92.284134
.000000	50.756273	0.812640	
0.75000	34.980378	1.478714	92.284134
.000000	25.378137	0.406263	
1.00000	34.980378	1.478714	92.284134
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-149.651870	-0.097863	-6.107461
.000000	-6.718207	-0.107410	
0.25000	-149.651870	-0.097863	-6.107461
.000000	-5.038655	-0.080627	
0.50000	-149.651870	-0.097863	-6.107461
.000000	-3.359104	-0.053851	
0.75000	-149.651870	-0.097863	-6.107461
.000000	-1.679552	-0.025965	
1.00000	-149.651870	-0.097863	-6.107461
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	73.705937	1.212750	75.688545
.000000	83.257400	1.333264	
0.25000	73.705937	1.212750	75.688545
.000000	62.443050	0.998850	
0.50000	73.705937	1.212750	75.688545
.000000	41.628700	0.665637	
0.75000	73.705937	1.212750	75.688545
.000000	20.814350	0.332188	
1.00000	73.705937	1.212750	75.688545
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-163.708122	-0.611812	-38.183245
.000000	-42.001570	-0.672878	
0.25000	-163.708122	-0.611812	-38.183245
.000000	-31.501177	-0.504064	
0.50000	-163.708122	-0.611812	-38.183245
.000000	-21.000785	-0.336096	
0.75000	-163.708122	-0.611812	-38.183245
.000000	-10.500392	-0.166616	
1.00000	-163.708122	-0.611812	-38.183245
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	105.795767	1.585898	98.975860
.000000	108.873446	1.743315	
0.25000	105.795767	1.585898	98.975860
.000000	81.655085	1.305888	
0.50000	105.795767	1.585898	98.975860
.000000	54.436723	0.870148	
0.75000	105.795767	1.585898	98.975860
.000000	27.218362	0.434333	
1.00000	105.795767	1.585898	98.975860
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-519.468399	-1.202465	-75.044809
.000000	-82.549290	-1.322472	
0.25000	-519.468399	-1.202465	-75.044809
.000000	-61.911968	-0.991312	
0.50000	-519.468399	-1.202465	-75.044809
.000000	-41.274645	-0.660638	
0.75000	-519.468399	-1.202465	-75.044809
.000000	-20.637323	-0.328425	
1.00000	-519.468399	-1.202465	-75.044809
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4931
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	115.181929	1.497501	93.458729
.000000	102.804602	1.645785	
0.25000	115.181929	1.497501	93.458729
.000000	77.103452	1.232486	
0.50000	115.181929	1.497501	93.458729
.000000	51.402301	0.821191	
0.75000	115.181929	1.497501	93.458729
.000000	25.701151	0.409710	
1.00000	115.181929	1.497501	93.458729
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-438.292937	-1.208190	-75.401973
.000000	-82.942170	-1.328593	
0.25000	-438.292937	-1.208190	-75.401973
.000000	-62.206628	-0.995889	
0.50000	-438.292937	-1.208190	-75.401973
.000000	-41.471085	-0.663138	
0.75000	-438.292937	-1.208190	-75.401973
.000000	-20.735543	-0.329831	
1.00000	-438.292937	-1.208190	-75.401973
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	35.437097	0.452632	28.250257
.000000	31.075282	0.497040	
0.25000	35.437097	0.452632	28.250257
.000000	23.306462	0.372063	
0.50000	35.437097	0.452632	28.250257
.000000	15.537641	0.247553	
0.75000	35.437097	0.452632	28.250257
.000000	7.768821	0.123246	
1.00000	35.437097	0.452632	28.250257
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-8.887635	-0.154368	-9.633939
.000000	-10.597333	-0.169584	
0.25000	-8.887635	-0.154368	-9.633939
.000000	-7.948000	-0.126850	
0.50000	-8.887635	-0.154368	-9.633939
.000000	-5.298666	-0.083758	
0.75000	-8.887635	-0.154368	-9.633939
.000000	-2.649333	-0.041589	
1.00000	-8.887635	-0.154368	-9.633939
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	86.575505	0.524626	32.743733
.000000	36.018176	0.576187	
0.25000	86.575505	0.524626	32.743733
.000000	27.013580	0.430741	
0.50000	86.575505	0.524626	32.743733
.000000	18.009053	0.286347	
0.75000	86.575505	0.524626	32.743733
.000000	9.004527	0.142334	
1.00000	86.575505	0.524626	32.743733
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-19.373091	-1.067251	-66.605356
.000000	-73.265891	-1.173741	
0.25000	-19.373091	-1.067251	-66.605356
.000000	-54.949419	-0.879611	
0.50000	-19.373091	-1.067251	-66.605356
.000000	-36.632946	-0.585438	
0.75000	-19.373091	-1.067251	-66.605356
.000000	-18.316473	-0.291275	
1.00000	-19.373091	-1.067251	-66.605356
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4932
< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	94.993025	0.940764	58.715961
.000000	64.587557	1.033315	
0.25000	94.993025	0.940764	58.715961
.000000	48.440668	0.773313	
0.50000	94.993025	0.940764	58.715961
.000000	32.293779	0.514716	
0.75000	94.993025	0.940764	58.715961
.000000	16.146889	0.256258	
1.00000	94.993025	0.940764	58.715961
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-95.858425	-0.699717	-43.668721
.000000	-48.035593	-0.769404	
0.25000	-95.858425	-0.699717	-43.668721
.000000	-36.026694	-0.576171	
0.50000	-95.858425	-0.699717	-43.668721
.000000	-24.017796	-0.383284	
0.75000	-95.858425	-0.699717	-43.668721
.000000	-12.008898	-0.190234	
1.00000	-95.858425	-0.699717	-43.668721
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	110.336850	1.772950	110.650756

```
    .000000  121.715831    1.948485
 0.25000  110.336850    1.772950  110.650756
    .000000   91.286873    1.459886
 0.50000  110.336850    1.772950  110.650756
    .000000   60.857916    0.972467
 0.75000  110.336850    1.772950  110.650756
    .000000   30.428958    0.485142
 1.00000  110.336850    1.772950  110.650756
    .000000    .000000    .000000

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -323.740838   -0.854085  -53.302154
    .000000  -58.632370   -0.939136
 0.25000 -323.740838   -0.854085  -53.302154
    .000000  -43.974277   -0.703562
 0.50000 -323.740838   -0.854085  -53.302154
    .000000  -29.316185   -0.468175
 0.75000 -323.740838   -0.854085  -53.302154
    .000000  -14.658092   -0.232440
 1.00000 -323.740838   -0.854085  -53.302154
    .000000    .000000    .000000

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   93.622433    1.782664  111.253115
    .000000  122.378427    1.960931
 0.25000   93.622433    1.782664  111.253115
    .000000   91.783820    1.470689
 0.50000   93.622433    1.782664  111.253115
    .000000   61.189213    0.980469
 0.75000   93.622433    1.782664  111.253115
    .000000   30.594607    0.490196
 1.00000   93.622433    1.782664  111.253115
    .000000    .000000    .000000

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -728.428434   -1.798646 -112.250533
    .000000 -123.475586   -1.978590
 0.25000 -728.428434   -1.798646 -112.250533
    .000000  -92.606689   -1.483875
 0.50000 -728.428434   -1.798646 -112.250533
    .000000  -61.737793   -0.989207
 0.75000 -728.428434   -1.798646 -112.250533
    .000000  -30.868896   -0.494524
 1.00000 -728.428434   -1.798646 -112.250533
    .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4933

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   122.112418    1.772950  110.650756
    .000000   121.715831    1.948485
 0.25000   122.112418    1.772950  110.650756
    .000000    91.286873    1.459886
 0.50000   122.112418    1.772950  110.650756
    .000000    60.857916    0.972467
 0.75000   122.112418    1.772950  110.650756
    .000000    30.428958    0.485142
 1.00000   122.112418    1.772950  110.650756
    .000000    .000000    .000000

COMB      DL ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -745.697751   -1.978486 -123.474662
    .000000 -135.822128   -2.176046
 0.25000 -745.697751   -1.978486 -123.474662
    .000000 -101.866596   -1.631470
 0.50000 -745.697751   -1.978486 -123.474662
    .000000  -67.911064   -1.086956
 0.75000 -745.697751   -1.978486 -123.474662
    .000000  -33.955532   -0.541484
 1.00000 -745.697751   -1.978486 -123.474662
    .000000    .000000    .000000

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   122.112418    1.782664  111.253115
    .000000  122.378427    1.960931
 0.25000   122.112418    1.782664  111.253115
    .000000   91.783820    1.470689
 0.50000   122.112418    1.782664  111.253115
    .000000   61.189213    0.980469
 0.75000   122.112418    1.782664  111.253115
    .000000   30.594607    0.490196
 1.00000   122.112418    1.782664  111.253115
    .000000    .000000    .000000

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -745.697751   -1.978486 -123.474662
    .000000 -135.822128   -2.176046
 0.25000 -745.697751   -1.978486 -123.474662
    .000000 -101.866596   -1.631470
 0.50000 -745.697751   -1.978486 -123.474662
    .000000  -67.911064   -1.086956
 0.75000 -745.697751   -1.978486 -123.474662
    .000000  -33.955532   -0.541484
 1.00000 -745.697751   -1.978486 -123.474662
    .000000    .000000    .000000

COMB  DESIGN ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   122.112418    1.782664  111.253115
    .000000  122.378427    1.960931
 0.25000   122.112418    1.782664  111.253115
    .000000   91.783820    1.470689
 0.50000   122.112418    1.782664  111.253115
    .000000   61.189213    0.980469
 0.75000   122.112418    1.782664  111.253115
    .000000   30.594607    0.490196
 1.00000   122.112418    1.782664  111.253115
    .000000    .000000    .000000

COMB  DESIGN ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -745.697751   -1.978486 -123.474662
    .000000 -135.822128   -2.176046
 0.25000 -745.697751   -1.978486 -123.474662
    .000000 -101.866596   -1.631470
 0.50000 -745.697751   -1.978486 -123.474662
    .000000  -67.911064   -1.086956
 0.75000 -745.697751   -1.978486 -123.474662
    .000000  -33.955532   -0.541484
 1.00000 -745.697751   -1.978486 -123.474662
    .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4934

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM       483 ================== LENGTH
=     1.200000

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   44.483513    0.543566    9.771343
    .000000   11.725612    0.652279
 0.25000   44.483513    0.543566    9.771343
    .000000    8.794209    0.489209
 0.50000   44.483513    0.543566    9.771343
    .000000    5.862806    0.326139
 0.75000   44.483513    0.543566    9.771343
    .000000    2.931403    0.163057
 1.00000   44.483513    0.543566    9.771343
    .000000    .000000    .000000

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -590.904144   -2.729038  -49.058219
    .000000  -58.869863   -3.279846
 0.25000 -590.904144   -2.729038  -49.058219
    .000000  -44.152397   -2.456134
 0.50000 -590.904144   -2.729038  -49.058219
    .000000  -29.434932   -1.637423
 0.75000 -590.904144   -2.729038  -49.058219
    .000000  -14.717466   -0.818711
 1.00000 -590.904144   -2.729038  -49.058219
    .000000    .000000    .000000

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   75.370057    6.944915  124.844416
    .000000  149.813300    8.333898
 0.25000   75.370057    6.944915  124.844416
    .000000  112.359975    6.250423
 0.50000   75.370057    6.944915  124.844416
    .000000   74.906650    4.166949
 0.75000   75.370057    6.944915  124.844416
    .000000   37.453325    2.083467
 1.00000   75.370057    6.944915  124.844416
    .000000    .000000    .000000

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -797.056977   -2.586041  -46.487645
    .000000  -55.785174   -3.103249
 0.25000 -797.056977   -2.586041  -46.487645
    .000000  -41.838881   -2.327437
 0.50000 -797.056977   -2.586041  -46.487645
    .000000  -27.892587   -1.551624
 0.75000 -797.056977   -2.586041  -46.487645
    .000000  -13.946294   -0.775812
 1.00000 -797.056977   -2.586041  -46.487645
    .000000    .000000    .000000

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   89.702700    5.071117   91.160311
    .000000  109.392373    6.085340
 0.25000   89.702700    5.071117   91.160311
    .000000   82.044280    4.564005
 0.50000   89.702700    5.071117   91.160311
    .000000   54.696186    3.042670
 0.75000   89.702700    5.071117   91.160311
    .000000   27.348093    1.521322
 1.00000   89.702700    5.071117   91.160311
    .000000    .000000    .000000

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -765.423896   -2.315102  -41.617147
    .000000  -49.940576   -2.778122
 0.25000 -765.423896   -2.315102  -41.617147
    .000000  -37.455432   -2.083592
 0.50000 -765.423896   -2.315102  -41.617147
    .000000  -24.970288   -1.389061
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4935

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.75000 -765.423896   -2.315102  -41.617147
    .000000  -12.485144   -0.694531
 1.00000 -765.423896   -2.315102  -41.617147
    .000000    .000000    .000000

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  113.369249    4.704344   84.567067
    .000000  101.480481    5.645213
 0.25000  113.369249    4.704344   84.567067
    .000000   76.110361    4.233910
 0.50000  113.369249    4.704344   84.567067
    .000000   50.740240    2.822604
 0.75000  113.369249    4.704344   84.567067
    .000000   25.370120    1.411296
 1.00000  113.369249    4.704344   84.567067
    .000000    .000000    .000000

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -643.015722   -5.365963  -96.460584
    .000000 -115.752701   -6.439187
 0.25000 -643.015722   -5.365963  -96.460584
    .000000  -86.814526   -4.829390
 0.50000 -643.015722   -5.365963  -96.460584
    .000000  -57.876350   -3.219566
 0.75000 -643.015722   -5.365963  -96.460584
    .000000  -28.938175   -1.609822
 1.00000 -643.015722   -5.365963  -96.460584
    .000000    .000000    .000000

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   32.056802    7.173901  128.960753
    .000000  154.752904    8.606681
 0.25000   32.056802    7.173901  128.960753
    .000000  116.064678    6.456511
 0.50000   32.056802    7.173901  128.960753
    .000000   77.376452    4.304340
 0.75000   32.056802    7.173901  128.960753
    .000000   38.688226    2.152162
 1.00000   32.056802    7.173901  128.960753
    .000000    .000000    .000000

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -151.874980   -0.033763   -0.606931
    .000000   -0.728317   -0.040515
 0.25000 -151.874980   -0.033763   -0.606931
    .000000   -0.546237   -0.030386
 0.50000 -151.874980   -0.033763   -0.606931
    .000000   -0.364158   -0.020258
 0.75000 -151.874980   -0.033763   -0.606931
    .000000   -0.182079   -0.010105
 1.00000 -151.874980   -0.033763   -0.606931
    .000000    .000000    .000000

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   75.598585    5.507614   99.006957
    .000000  118.808349    6.609137
 0.25000   75.598585    5.507614   99.006957
    .000000   89.106261    4.956853
 0.50000   75.598585    5.507614   99.006957
    .000000   59.404174    3.304569
 0.75000   75.598585    5.507614   99.006957
    .000000   29.702087    1.652284
 1.00000   75.598585    5.507614   99.006957
    .000000    .000000    .000000

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -174.781330   -2.786088  -50.083766
    .000000  -60.100519   -3.343348
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4936

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.25000 -174.781330   -2.786088  -50.083766
    .000000  -45.075389   -2.507511
 0.50000 -174.781330   -2.786088  -50.083766
    .000000  -30.050259   -1.671637
 0.75000 -174.781330   -2.786088  -50.083766
    .000000  -15.025130   -0.835872
 1.00000 -174.781330   -2.786088  -50.083766
    .000000    .000000    .000000

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   102.409727    7.464113  134.177712
    .000000  161.013255    8.956935
 0.25000   102.409727    7.464113  134.177712
    .000000  120.759941    6.717701
 0.50000   102.409727    7.464113  134.177712
    .000000   80.506627    4.478468
 0.75000   102.409727    7.464113  134.177712
    .000000   40.253314    2.239234
 1.00000   102.409727    7.464113  134.177712
    .000000    .000000    .000000

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -559.627660   -3.482284  -62.598852
    .000000  -75.118622   -4.178763
 0.25000 -559.627660   -3.482284  -62.598852
    .000000  -56.338967   -3.134090
 0.50000 -559.627660   -3.482284  -62.598852
    .000000  -37.559311   -2.089359
 0.75000 -559.627660   -3.482284  -62.598852
    .000000  -18.779656   -1.044734
 1.00000 -559.627660   -3.482284  -62.598852
    .000000    .000000    .000000

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   101.743554    6.885703  123.779997
    .000000  148.535996    8.262843
 0.25000   101.743554    6.885703  123.779997
    .000000  111.401997    6.197133
 0.50000   101.743554    6.885703  123.779997
    .000000   74.267998    4.131422
 0.75000   101.743554    6.885703  123.779997
    .000000   37.133999    2.065711
 1.00000   101.743554    6.885703  123.779997
    .000000    .000000    .000000

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -471.614093   -3.843098  -69.084987
    .000000  -82.901984   -4.611751
 0.25000 -471.614093   -3.843098  -69.084987
    .000000  -62.176488   -3.458813
 0.50000 -471.614093   -3.843098  -69.084987
    .000000  -41.450992   -2.305847
 0.75000 -471.614093   -3.843098  -69.084987
    .000000  -20.725496   -1.152965
 1.00000 -471.614093   -3.843098  -69.084987
    .000000    .000000    .000000

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   22.824364    1.320560   23.738880
    .000000   28.480656    1.584672
 0.25000   22.824364    1.320560   23.738880
    .000000   21.364992    1.188504
 0.50000   22.824364    1.320560   23.738880
    .000000   14.243328    0.792336
 0.75000   22.824364    1.320560   23.738880
    .000000    7.121664    0.396168
 1.00000   22.824364    1.320560   23.738880
    .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4937

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -8.354750   -0.548084   -9.852556
    .000000  -11.823068   -0.657700
 0.25000   -8.354750   -0.548084   -9.852556
    .000000   -8.867301   -0.493275
 0.50000   -8.354750   -0.548084   -9.852556
    .000000   -5.911534   -0.328850
 0.75000   -8.354750   -0.548084   -9.852556
    .000000   -2.955767   -0.164420
 1.00000   -8.354750   -0.548084   -9.852556
    .000000    .000000    .000000

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   81.543044    1.843198   33.134018
    .000000   39.760821    2.211837
 0.25000   81.543044    1.843198   33.134018
    .000000   29.620616    1.658878
 0.50000   81.543044    1.843198   33.134018
    .000000   19.880411    1.105919
 0.75000   81.543044    1.843198   33.134018
    .000000    9.940205    0.552959
 1.00000   81.543044    1.843198   33.134018
    .000000    .000000    .000000

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  -22.264163   -5.509833   -99.046846
    .000000 -118.856215   -6.611800
 0.25000  -22.264163   -5.509833   -99.046846
    .000000  -89.142161   -4.958850
 0.50000  -22.264163   -5.509833   -99.046846
    .000000  -59.428108   -3.305900
 0.75000  -22.264163   -5.509833   -99.046846
    .000000  -29.714054   -1.652931
 1.00000  -22.264163   -5.509833   -99.046846
    .000000    .000000    .000000

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   80.480922    3.115289   56.001621
    .000000   67.201945    3.738347
 0.25000   80.480922    3.115289   56.001621
    .000000   50.401459    2.803761
 0.50000   80.480922    3.115289   56.001621
    .000000   33.600973    1.869174
 0.75000   80.480922    3.115289   56.001621
    .000000   16.800486    0.934587
 1.00000   80.480922    3.115289   56.001621
    .000000    .000000    .000000

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000 -105.878076   -2.691565   -48.384592
    .000000  -58.061511   -3.229904
 0.25000 -105.878076   -2.691565   -48.384592
    .000000  -43.546133   -2.422447
 0.50000 -105.878076   -2.691565   -48.384592
    .000000  -29.030755   -1.614929
 0.75000 -105.878076   -2.691565   -48.384592
    .000000  -14.515378   -0.807507
 1.00000 -105.878076   -2.691565   -48.384592
    .000000    .000000    .000000

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   94.199399    8.086080   145.358437
    .000000  174.430125    9.703296
 0.25000   94.199399    8.086080   145.358437
    .000000  130.822593    7.277472
 0.50000   94.199399    8.086080   145.358437
    .000000   87.215062    4.851648
 0.75000   94.199399    8.086080   145.358437
    .000000   43.607531    2.425824
 1.00000   94.199399    8.086080   145.358437
    .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4938

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  -345.825929   -2.581891   -46.413049
    .000000  -55.695659   -3.098303
 0.25000  -345.825929   -2.581891   -46.413049
    .000000  -41.771744   -2.323727
 0.50000  -345.825929   -2.581891   -46.413049
    .000000  -27.847830   -1.549123
 0.75000  -345.825929   -2.581891   -46.413049
    .000000  -13.923915   -0.774589
 1.00000  -345.825929   -2.581891   -46.413049
    .000000    .000000    .000000

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   61.578173    0.686398   12.338944
    .000000   14.806733    0.823677
 0.25000   61.578173    0.686398   12.338944
    .000000   11.105050    0.617758
 0.50000   61.578173    0.686398   12.338944
    .000000    7.403367    0.411869
 0.75000   61.578173    0.686398   12.338944
    .000000    3.701683    0.206014
 1.00000   61.578173    0.686398   12.338944
    .000000    .000000    .000000

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -1130.798   -6.287497  -113.026423
    .000000  -135.631707   -7.544996
 0.25000   -1130.798   -6.287497  -113.026423
    .000000  -101.723781   -5.658747
 0.50000   -1130.798   -6.287497  -113.026423
    .000000   -67.815854   -3.772582
 0.75000   -1130.798   -6.287497  -113.026423
    .000000   -33.907927   -1.885955
 1.00000   -1130.798   -6.287497  -113.026423
    .000000    .000000    .000000

COMB DL-G1-2 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  104.376055    8.904319   160.067413
    .000000  192.080896   10.685195
 0.25000  104.376055    8.904319   160.067413
    .000000  144.060672    8.013900
 0.50000  104.376055    8.904319   160.067413
    .000000   96.040448    5.342651
 0.75000  104.376055    8.904319   160.067413
    .000000   48.020224    2.671260
 1.00000  104.376055    8.904319   160.067413
    .000000    .000000    .000000

COMB DL-G1-2 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -1564.612   -5.352936   -96.226408
    .000000  -115.471690   -6.423526
 0.25000   -1564.612   -5.352936   -96.226408
    .000000   -86.603767   -4.817489
 0.50000   -1564.612   -5.352936   -96.226408
    .000000   -57.735845   -3.211191
 0.75000   -1564.612   -5.352936   -96.226408
    .000000   -28.867922   -1.605321
 1.00000   -1564.612   -5.352936   -96.226408
    .000000    .000000    .000000

COMB DL-G1-3 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  127.213597    7.293312   131.107333
    .000000  157.328799    8.751807
 0.25000  127.213597    7.293312   131.107333
    .000000  117.996599    6.562799
 0.50000  127.213597    7.293312   131.107333
    .000000   78.664400    4.375114
 0.75000  127.213597    7.293312   131.107333
    .000000   39.332200    2.187163
 1.00000  127.213597    7.293312   131.107333
    .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<                  MOVING          LOAD                >
                                    4939

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -1500.819   -5.131589   -92.247375
    .000000  -110.696850   -6.157134
 0.25000   -1500.819   -5.131589   -92.247375
    .000000   -83.022638   -4.617631
 0.50000   -1500.819   -5.131589   -92.247375
    .000000   -55.348425   -3.078310
 0.75000   -1500.819   -5.131589   -92.247375
    .000000   -27.674213   -1.539122
 1.00000   -1500.819   -5.131589   -92.247375
    .000000    .000000    .000000

COMB DL-G1-4 ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000  167.366985    6.637679   119.321426
```

```
    .000000   143.185711     7.964982
 0.25000   167.366985     6.637679   119.321426
    .000000   107.389283     5.972864
 0.50000   167.366985     6.637679   119.321426
    .000000    71.592856     3.981910
 0.75000   167.366985     6.637679   119.321426
    .000000    35.796428     1.990267
 1.00000   167.366985     6.637679   119.321426
    .000000     .000000     .000000

COMB DL-G1-4 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   -1258.738   -7.854226 -141.190530
    .000000 -169.428636    -9.424464
 0.25000   -1258.738   -7.854226 -141.190530
    .000000 -127.071477    -7.068142
 0.50000   -1258.738   -7.854226 -141.190530
    .000000  -84.714318    -4.711967
 0.75000   -1258.738   -7.854226 -141.190530
    .000000  -42.357159    -2.355913
 1.00000   -1258.738   -7.854226 -141.190530
    .000000     .000000     .000000

COMB DL-G2-1 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   44.592263     9.404564   169.059997
    .000000  202.871996    11.285477
 0.25000   44.592263     9.404564   169.059997
    .000000  152.153997     8.464108
 0.50000   44.592263     9.404564   169.059997
    .000000  101.435998     5.642738
 0.75000   44.592263     9.404564   169.059997
    .000000   50.717999     2.821173
 1.00000   44.592263     9.404564   169.059997
    .000000     .000000     .000000

COMB DL-G2-1 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -337.599756    -0.026396    -0.474506
    .000000   -0.569407    -0.031675
 0.25000  -337.599756    -0.026396    -0.474506
    .000000   -0.427055    -0.023756
 0.50000  -337.599756    -0.026396    -0.474506
    .000000   -0.284704    -0.015838
 0.75000  -337.599756    -0.026396    -0.474506
    .000000   -0.142352    -0.007943
 1.00000  -337.599756    -0.026396    -0.474506
    .000000     .000000     .000000

COMB DL-G2-2 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   102.772340     7.384126   132.739834
    .000000  159.287801     8.861021
 0.25000   102.772340     7.384126   132.739834
    .000000  119.465851     6.644781
 0.50000   102.772340     7.384126   132.739834
    .000000   79.643901     4.429798
 0.75000   102.772340     7.384126   132.739834
    .000000   39.821950     2.214536
 1.00000   102.772340     7.384126   132.739834
    .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4940

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -375.073639    -2.901417    -52.156963
    .000000   -62.588355    -3.481163
 0.25000  -375.073639    -2.901417    -52.156963
    .000000   -46.941266    -2.610504
 0.50000  -375.073639    -2.901417    -52.156963
    .000000   -31.294178    -1.740764
 0.75000  -375.073639    -2.901417    -52.156963
    .000000   -15.647089    -0.870651
 1.00000  -375.073639    -2.901417    -52.156963
    .000000     .000000     .000000

COMB DL-G2-3 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   140.416241     9.061340   162.890077
    .000000  195.468092    10.873707
 0.25000   140.416241     9.061340   162.890077
    .000000  146.601069     8.154374
 0.50000   140.416241     9.061340   162.890077
    .000000   97.734046     5.436145
 0.75000   140.416241     9.061340   162.890077
    .000000   48.867023     2.717717
 1.00000   140.416241     9.061340   162.890077
    .000000     .000000     .000000

COMB DL-G2-3 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   -1112.314    -3.991633    -71.755112
    .000000   -86.106134    -4.789419
 0.25000   -1112.314    -3.991633    -71.755112
    .000000   -64.579601    -3.591756
 0.50000   -1112.314    -3.991633    -71.755112
    .000000   -43.053067    -2.394918
 0.75000   -1112.314    -3.991633    -71.755112
    .000000   -21.526534    -1.197554
 1.00000   -1112.314    -3.991633    -71.755112
    .000000     .000000     .000000

COMB DL-G2-4 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   160.555512     8.411269   151.204149
    .000000  181.444979    10.093570
 0.25000   160.555512     8.411269   151.204149
    .000000  136.083734     7.569575
 0.50000   160.555512     8.411269   151.204149
    .000000   90.722490     5.046099
 0.75000   160.555512     8.411269   151.204149
    .000000   45.361245     2.522272
 1.00000   160.555512     8.411269   151.204149
    .000000     .000000     .000000

COMB DL-G2-4 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -933.613889    -4.495787    -80.817962
    .000000   -96.981555    -5.394511
 0.25000  -933.613889    -4.495787    -80.817962
    .000000   -72.736166    -4.045562
 0.50000  -933.613889    -4.495787    -80.817962
    .000000   -48.490777    -2.697198
 0.75000  -933.613889    -4.495787    -80.817962
    .000000   -24.245389    -1.348646
 1.00000  -933.613889    -4.495787    -80.817962
    .000000     .000000     .000000

COMB DL-G3-1 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   54.370286     2.379248    42.770266
    .000000   51.324319     2.855181
 0.25000   54.370286     2.379248    42.770266
    .000000   38.493240     2.141349
 0.50000   54.370286     2.379248    42.770266
    .000000   25.662160     1.427673
 0.75000   54.370286     2.379248    42.770266
    .000000   12.831080     0.713080
 1.00000   54.370286     2.379248    42.770266
    .000000     .000000     .000000

Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4941

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -12.411878    -0.655051    -11.775448
    .000000  -14.130538    -0.785392
 0.25000  -12.411878    -0.655051    -11.775448
    .000000  -10.597903    -0.589093
 0.50000  -12.411878    -0.655051    -11.775448
    .000000   -7.065269    -0.392546
 0.75000  -12.411878    -0.655051    -11.775448
    .000000   -3.532634    -0.196053
 1.00000  -12.411878    -0.655051    -11.775448
    .000000     .000000     .000000

COMB DL-G3-2 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   135.440759     2.617957    47.061377
    .000000   56.473652     3.141588
 0.25000   135.440759     2.617957    47.061377
    .000000   42.355239     2.356413
 0.50000   135.440759     2.617957    47.061377
    .000000   28.236826     1.570829
 0.75000   135.440759     2.617957    47.061377
    .000000   14.118413     0.784517
 1.00000   135.440759     2.617957    47.061377
    .000000     .000000     .000000

COMB DL-G3-2 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -37.235112    -6.089715  -109.471023
    .000000 -131.365228    -7.016669
 0.25000  -37.235112    -6.089715  -109.471023
    .000000  -98.523921    -5.480133
 0.50000  -37.235112    -6.089715  -109.471023
    .000000  -65.682614    -3.653175
 0.75000  -37.235112    -6.089715  -109.471023
    .000000  -32.841307    -1.826420
 1.00000  -37.235112    -6.089715  -109.471023
    .000000     .000000     .000000

COMB DL-G3-3 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   139.991647     5.207500    93.611982
    .000000  112.334378     6.249040
 0.25000   139.991647     5.207500    93.611982
    .000000   84.250784     4.686166
 0.50000   139.991647     5.207500    93.611982
    .000000   56.167189     3.123875
 0.75000   139.991647     5.207500    93.611982
    .000000   28.083595     1.560630
 1.00000   139.991647     5.207500    93.611982
    .000000     .000000     .000000

COMB DL-G3-3 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -217.696586    -3.501858    -62.950716
    .000000   -75.540859    -4.200915
 0.25000  -217.696586    -3.501858    -62.950716
    .000000   -56.655644    -3.150386
 0.50000  -217.696586    -3.501858    -62.950716
    .000000   -37.770429    -2.100200
 0.75000  -217.696586    -3.501858    -62.950716
    .000000   -18.885215    -1.050428
 1.00000  -217.696586    -3.501858    -62.950716
    .000000     .000000     .000000

COMB DL-G3-4 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   154.756315    10.337395   185.828925
    .000000  222.994710    12.404851
 0.25000   154.756315    10.337395   185.828925
    .000000  167.246032     9.303201
 0.50000   154.756315    10.337395   185.828925
    .000000  111.497355     6.201855
 0.75000   154.756315    10.337395   185.828925
    .000000   55.748677     3.099845
 1.00000   154.756315    10.337395   185.828925
    .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4942

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -695.797264    -3.311184    -59.523104
    .000000   -71.427725    -3.972344
 0.25000  -695.797264    -3.311184    -59.523104
    .000000   -53.570793    -2.978997
 0.50000  -695.797264    -3.311184    -59.523104
    .000000   -35.713862    -1.985890
 0.75000  -695.797264    -3.311184    -59.523104
    .000000   -17.856931    -0.993232
 1.00000  -695.797264    -3.311184    -59.523104
    .000000     .000000     .000000

COMB     DB  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   113.369249     8.086080    145.358437
    .000000  174.430125     9.703296
 0.25000   113.369249     8.086080    145.358437
    .000000  130.822593     7.277472
 0.50000   113.369249     8.086080    145.358437
    .000000   87.215062     4.851168
 0.75000   113.369249     8.086080    145.358437
    .000000   43.607531     2.425824
 1.00000   113.369249     8.086080    145.358437
    .000000     .000000     .000000

COMB     DB  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -797.056977    -5.509833    -99.046846
    .000000 -118.856215    -6.611800
 0.25000  -797.056977    -5.509833    -99.046846
    .000000  -89.142161    -4.958850
 0.50000  -797.056977    -5.509833    -99.046846
    .000000  -59.428108    -3.305900
 0.75000  -797.056977    -5.509833    -99.046846
    .000000  -29.714054    -1.652931
 1.00000  -797.056977    -5.509833    -99.046846
    .000000     .000000     .000000

COMB     DL  ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   167.366985    10.337395   185.828925
    .000000  222.994710    12.404851
 0.25000   167.366985    10.337395   185.828925
    .000000   167.246032     9.303201
 0.50000   167.366985    10.337395   185.828925
    .000000   111.497355     6.201855
 0.75000   167.366985    10.337395   185.828925
    .000000    55.748677     3.099845
 1.00000   167.366985    10.337395   185.828925
    .000000     .000000     .000000

COMB     DL  ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   -1564.612    -7.854226  -141.190530
    .000000 -169.428636    -9.424464
 0.25000   -1564.612    -7.854226  -141.190530
    .000000 -127.071477    -7.068142
 0.50000   -1564.612    -7.854226  -141.190530
    .000000  -84.714318    -4.711967
 0.75000   -1564.612    -7.854226  -141.190530
    .000000  -42.357159    -2.355913
 1.00000   -1564.612    -7.854226  -141.190530
    .000000     .000000     .000000

COMB     CAR ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   167.366985    10.337395   185.828925
    .000000  222.994710    12.404851
 0.25000   167.366985    10.337395   185.828925
    .000000  167.246032     9.303201
 0.50000   167.366985    10.337395   185.828925
    .000000  111.497355     6.201855
 0.75000   167.366985    10.337395   185.828925
    .000000   55.748677     3.099845
 1.00000   167.366985    10.337395   185.828925
    .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4943

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB     CAR ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   -1564.612    -7.854226  -141.190530
    .000000 -169.428636    -9.424464
 0.25000   -1564.612    -7.854226  -141.190530
    .000000 -127.071477    -7.068142
 0.50000   -1564.612    -7.854226  -141.190530
    .000000  -84.714318    -4.711967
 0.75000   -1564.612    -7.854226  -141.190530
    .000000  -42.357159    -2.355913
 1.00000   -1564.612    -7.854226  -141.190530
    .000000     .000000     .000000

COMB   DESIGN ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   167.366985    10.337395   185.828925
    .000000  222.994710    12.404851
 0.25000   167.366985    10.337395   185.828925
    .000000   167.246032     9.303201
 0.50000   167.366985    10.337395   185.828925
    .000000   111.497355     6.201855
 0.75000   167.366985    10.337395   185.828925
    .000000    55.748677     3.099845
 1.00000   167.366985    10.337395   185.828925
    .000000     .000000     .000000

COMB   DESIGN ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   -1564.612    -7.854226  -141.190530
    .000000 -169.428636    -9.424464
 0.25000   -1564.612    -7.854226  -141.190530
    .000000 -127.071477    -7.068142
 0.50000   -1564.612    -7.854226  -141.190530
    .000000  -84.714318    -4.711967
 0.75000   -1564.612    -7.854226  -141.190530
    .000000  -42.357159    -2.355913
 1.00000   -1564.612    -7.854226  -141.190530
    .000000     .000000     .000000

ELEM      484 ================ LENGTH
=   1.200000

COMB DB-G1-1 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   46.029558    30.605885     7.400403
    .000000    8.880484    36.727062
 0.25000   46.029558    30.605885     7.400403
    .000000    6.660363    27.545297
 0.50000   46.029558    30.605885     7.400403
    .000000    4.440242    18.363531
 0.75000   46.029558    30.605885     7.400403
    .000000    2.220121     9.181766
 1.00000   46.029558    30.605885     7.400403
    .000000     .000000     .000000

COMB DB-G1-1 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -591.440636   -33.034267    -48.810019
    .000000  -58.572022   -39.641120
 0.25000  -591.440636   -33.034267    -48.810019
    .000000  -43.929017   -29.730840
 0.50000  -591.440636   -33.034267    -48.810019
    .000000  -29.286011   -19.820560
 0.75000  -591.440636   -33.034267    -48.810019
    .000000  -14.643006    -9.910280
 1.00000  -591.440636   -33.034267    -48.810019
    .000000     .000000     .000000

COMB DB-G1-2 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   77.970412    44.458796    122.530235
    .000000  147.036282    53.350555
 0.25000   77.970412    44.458796    122.530235
    .000000  110.277211    40.012917
 0.50000   77.970412    44.458796    122.530235
    .000000   73.518141    26.675278
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4944

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
 0.75000   77.970412    44.458796    122.530235
    .000000   36.759070    13.337639
 1.00000   77.970412    44.458796    122.530235
    .000000     .000000     .000000

COMB DB-G1-2 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -796.399381   -47.067806    -44.789449
    .000000  -53.747339   -56.481367
 0.25000  -796.399381   -47.067806    -44.789449
    .000000  -40.310504   -42.361025
 0.50000  -796.399381   -47.067806    -44.789449
    .000000  -26.873670   -28.240684
 0.75000  -796.399381   -47.067806    -44.789449
    .000000  -13.436835   -14.120342
 1.00000  -796.399381   -47.067806    -44.789449
    .000000     .000000     .000000

COMB DB-G1-3 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   92.924500    44.720055     87.565497
    .000000  105.078597    53.664066
 0.25000   92.924500    44.720055     87.565497
    .000000   78.808948    40.248050
 0.50000   92.924500    44.720055     87.565497
    .000000   52.539298    26.832033
 0.75000   92.924500    44.720055     87.565497
    .000000   26.269649    13.416017
 1.00000   92.924500    44.720055     87.565497
    .000000     .000000     .000000

COMB DB-G1-3 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -763.757144   -45.843029    -39.970164
    .000000  -47.964196   -55.011635
 0.25000  -763.757144   -45.843029    -39.970164
    .000000  -35.973147   -41.258726
 0.50000  -763.757144   -45.843029    -39.970164
    .000000  -23.982098   -27.505818
 0.75000  -763.757144   -45.843029    -39.970164
    .000000  -11.991049   -13.752909
 1.00000  -763.757144   -45.843029    -39.970164
    .000000     .000000     .000000

COMB DB-G1-4 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   116.698492    48.170347     80.710556
    .000000   96.852667    57.804416
 0.25000   116.698492    48.170347     80.710556
    .000000   72.639500    43.353312
 0.50000   116.698492    48.170347     80.710556
    .000000   48.426333    28.902208
 0.75000   116.698492    48.170347     80.710556
    .000000   24.213167    14.451104
 1.00000   116.698492    48.170347     80.710556
    .000000     .000000     .000000

COMB DB-G1-4 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -642.554801   -50.275455    -96.272364
    .000000 -115.526836   -60.330546
 0.25000  -642.554801   -50.275455    -96.272364
    .000000  -86.645127   -45.247909
 0.50000  -642.554801   -50.275455    -96.272364
    .000000  -57.763418   -30.165273
 0.75000  -642.554801   -50.275455    -96.272364
    .000000  -28.881709   -15.082636
 1.00000  -642.554801   -50.275455    -96.272364
    .000000     .000000     .000000

COMB DB-G2-1 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   33.206405    10.376424    129.963923
    .000000  155.956708    12.451709
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4945

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
 0.25000   33.206405    10.376424    129.963923
    .000000  116.967531     9.338781
 0.50000   33.206405    10.376424    129.963923
    .000000   77.978354     6.225854
 0.75000   33.206405    10.376424    129.963923
    .000000   38.989177     3.112927
 1.00000   33.206405    10.376424    129.963923
    .000000     .000000     .000000

COMB DB-G2-1 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -150.287515   -10.951596    -0.887781
    .000000   -1.065337   -13.141915
 0.25000  -150.287515   -10.951596    -0.887781
    .000000   -0.799003    -9.856646
 0.50000  -150.287515   -10.951596    -0.887781
    .000000   -0.532668    -6.570957
 0.75000  -150.287515   -10.951596    -0.887781
    .000000   -0.266334    -3.285479
 1.00000  -150.287515   -10.951596    -0.887781
    .000000     .000000     .000000

COMB DB-G2-2 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   77.874700    18.528364     97.365266
    .000000  116.838819    23.160456
 0.25000   77.874700    18.528364     97.365266
    .000000   87.628740    16.675527
 0.50000   77.874700    18.528364     97.365266
    .000000   58.419160    11.117018
 0.75000   77.874700    18.528364     97.365266
    .000000   29.209580     5.558509
 1.00000   77.874700    18.528364     97.365266
    .000000     .000000     .000000

COMB DB-G2-2 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -173.112599   -19.012334    -50.175545
    .000000  -60.210654   -22.814801
 0.25000  -173.112599   -19.012334    -50.175545
    .000000  -45.157991   -17.111101
 0.50000  -173.112599   -19.012334    -50.175545
    .000000  -30.105327   -11.407401
 0.75000  -173.112599   -19.012334    -50.175545
    .000000  -15.052664    -5.703700
 1.00000  -173.112599   -19.012334    -50.175545
    .000000     .000000     .000000

COMB DB-G2-3 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   105.639672    38.282875    132.943656
    .000000  159.532387    45.939450
 0.25000   105.639672    38.282875    132.943656
    .000000  119.649290    34.454587
 0.50000   105.639672    38.282875    132.943656
    .000000   79.766194    22.969725
 0.75000   105.639672    38.282875    132.943656
    .000000   39.883097    11.484862
 1.00000   105.639672    38.282875    132.943656
    .000000     .000000     .000000

COMB DB-G2-3 ------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
 0.00000  -557.561698   -38.016805    -61.310299
    .000000  -73.572359   -45.620166
 0.25000  -557.561698   -38.016805    -61.310299
    .000000  -55.179269   -34.215124
 0.50000  -557.561698   -38.016805    -61.310299
    .000000  -36.786179   -22.810083
 0.75000  -557.561698   -38.016805    -61.310299
    .000000  -18.393090   -11.405041
 1.00000  -557.561698   -38.016805    -61.310299
    .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD                >
                                4946

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G2-4 ------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
 0.00000   103.753332    44.420055    122.011045
```

.000000	146.413254	53.304067	
0.25000	103.753332	44.420055	122.011045
.000000	109.809940	39.978050	
0.50000	103.753332	44.420055	122.011045
.000000	73.206627	26.652033	
0.75000	103.753332	44.420055	122.011045
.000000	36.603313	13.326017	
1.00000	103.753332	44.420055	122.011045
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-470.785961	-44.294702	-68.973076
.000000	-82.767692	-53.153642	
0.25000	-470.785961	-44.294702	-68.973076
.000000	-62.075769	-39.865232	
0.50000	-470.785961	-44.294702	-68.973076
.000000	-41.383846	-26.576821	
0.75000	-470.785961	-44.294702	-68.973076
.000000	-20.691923	-13.288411	
1.00000	-470.785961	-44.294702	-68.973076
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	21.423327	20.397256	22.959996
.000000	27.551995	24.476708	
0.25000	21.423327	20.397256	22.959996
.000000	20.663996	18.357531	
0.50000	21.423327	20.397256	22.959996
.000000	13.775997	12.238354	
0.75000	21.423327	20.397256	22.959996
.000000	6.887999	6.119177	
1.00000	21.423327	20.397256	22.959996
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-9.720045	-19.631586	-8.209381
.000000	-9.851258	-23.557903	
0.25000	-9.720045	-19.631586	-8.209381
.000000	-7.388443	-17.668427	
0.50000	-9.720045	-19.631586	-8.209381
.000000	-4.925629	-11.778952	
0.75000	-9.720045	-19.631586	-8.209381
.000000	-2.462814	-5.889476	
1.00000	-9.720045	-19.631586	-8.209381
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	80.832559	31.354502	31.357087
.000000	37.628504	37.625402	
0.25000	80.832559	31.354502	31.357087
.000000	28.221378	28.219052	
0.50000	80.832559	31.354502	31.357087
.000000	18.814252	18.812701	
0.75000	80.832559	31.354502	31.357087
.000000	9.407126	9.406351	
1.00000	80.832559	31.354502	31.357087
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-24.667752	-32.696209	-98.459245
.000000	-118.151094	-39.235451	
0.25000	-24.667752	-32.696209	-98.459245
.000000	-88.613321	-29.426589	
0.50000	-24.667752	-32.696209	-98.459245
.000000	-58.075547	-19.617726	
0.75000	-24.667752	-32.696209	-98.459245
.000000	-29.537774	-9.808863	
1.00000	-24.667752	-32.696209	-98.459245
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4947

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	80.746832	32.944113	53.710607
.000000	39.532936	39.533528	
0.25000	80.746832	32.944113	53.710607
.000000	48.339546	29.649702	
0.50000	80.746832	32.944113	53.710607
.000000	32.226364	19.766468	
0.75000	80.746832	32.944113	53.710607
.000000	16.113182	9.883234	
1.00000	80.746832	32.944113	53.710607
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-106.041705	-32.193003	-47.008752
.000000	-56.410502	-38.631603	
0.25000	-106.041705	-32.193003	-47.008752
.000000	-42.307876	-28.973703	
0.50000	-106.041705	-32.193003	-47.008752
.000000	-28.205251	-19.315802	
0.75000	-106.041705	-32.193003	-47.008752
.000000	-14.102625	-9.657901	
1.00000	-106.041705	-32.193003	-47.008752
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	95.354038	42.593213	143.834095
.000000	172.600914	51.111856	
0.25000	95.354038	42.593213	143.834095
.000000	129.450686	38.333892	
0.50000	95.354038	42.593213	143.834095
.000000	86.300457	25.555928	
0.75000	95.354038	42.593213	143.834095
.000000	43.150229	12.777964	
1.00000	95.354038	42.593213	143.834095
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-345.101069	-41.498844	-44.711281
.000000	-53.653537	-49.798612	
0.25000	-345.101069	-41.498844	-44.711281
.000000	-40.240152	-37.348959	
0.50000	-345.101069	-41.498844	-44.711281
.000000	-26.826768	-24.899306	
0.75000	-345.101069	-41.498844	-44.711281
.000000	-13.413384	-12.449653	
1.00000	-345.101069	-41.498844	-44.711281
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	97.879154	53.852090	12.674053
.000000	15.208864	64.622508	
0.25000	97.879154	53.852090	12.674053
.000000	11.406648	48.466881	
0.50000	97.879154	53.852090	12.674053
.000000	7.604432	32.311254	
0.75000	97.879154	53.852090	12.674053
.000000	3.802216	16.155627	
1.00000	97.879154	53.852090	12.674053
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1152.010	-48.142176	-117.882589
.000000	-141.459107	-57.770611	
0.25000	-1152.010	-48.142176	-117.882589
.000000	-106.094330	-43.327958	
0.50000	-1152.010	-48.142176	-117.882589
.000000	-70.729553	-28.885306	
0.75000	-1152.010	-48.142176	-117.882589
.000000	-35.364777	-14.442653	
1.00000	-1152.010	-48.142176	-117.882589
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4948

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	164.308433	74.229410	162.645539
.000000	195.174647	89.075292	
0.25000	164.308433	74.229410	162.645539
.000000	146.380985	66.806469	
0.50000	164.308433	74.229410	162.645539
.000000	97.587323	44.537646	
0.75000	164.308433	74.229410	162.645539
.000000	48.793662	22.268823	
1.00000	164.308433	74.229410	162.645539
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1595.970	-72.379548	-100.312364
.000000	-120.374837	-86.855458	
0.25000	-1595.970	-72.379548	-100.312364
.000000	-90.281127	-65.141593	
0.50000	-1595.970	-72.379548	-100.312364
.000000	-60.187418	-43.427729	
0.75000	-1595.970	-72.379548	-100.312364
.000000	-30.093709	-21.713864	
1.00000	-1595.970	-72.379548	-100.312364
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	197.821615	71.090463	132.082762
.000000	158.499314	85.308555	
0.25000	197.821615	71.090463	132.082762
.000000	118.874486	63.981416	
0.50000	197.821615	71.090463	132.082762
.000000	79.249657	42.654278	
0.75000	197.821615	71.090463	132.082762
.000000	39.624829	21.327146	
1.00000	197.821615	71.090463	132.082762
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1534.313	-68.931173	-96.087918
.000000	-115.305501	-82.717408	
0.25000	-1534.313	-68.931173	-96.087918
.000000	-86.479126	-62.038056	
0.50000	-1534.313	-68.931173	-96.087918
.000000	-57.652751	-41.358704	
0.75000	-1534.313	-68.931173	-96.087918
.000000	-28.826375	-20.679362	
1.00000	-1534.313	-68.931173	-96.087918
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	233.664173	76.432341	121.140320
.000000	145.368384	91.718809	
0.25000	233.664173	76.432341	121.140320
.000000	109.026288	68.789107	
0.50000	233.664173	76.432341	121.140320
.000000	72.684192	45.859404	
0.75000	233.664173	76.432341	121.140320
.000000	36.342096	22.929702	
1.00000	233.664173	76.432341	121.140320
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1288.936	-74.004840	-147.344449
.000000	-176.813338	-88.805808	
0.25000	-1288.936	-74.004840	-147.344449
.000000	-132.610004	-66.604356	
0.50000	-1288.936	-74.004840	-147.344449
.000000	-88.406669	-44.402904	
0.75000	-1288.936	-74.004840	-147.344449
.000000	-44.203335	-22.201460	
1.00000	-1288.936	-74.004840	-147.344449
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4949

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	68.680536	18.143388	171.564460
.000000	205.877352	21.772066	
0.25000	68.680536	18.143388	171.564460
.000000	154.408014	16.329049	
0.50000	68.680536	18.143388	171.564460
.000000	102.938676	10.886033	
0.75000	68.680536	18.143388	171.564460
.000000	51.469338	5.443016	
1.00000	68.680536	18.143388	171.564460
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-347.143147	-22.612292	-0.649072
.000000	-0.778887	-27.134750	
0.25000	-347.143147	-22.612292	-0.649072
.000000	-0.584165	-20.351062	
0.50000	-347.143147	-22.612292	-0.649072
.000000	-0.389443	-13.567375	
0.75000	-347.143147	-22.612292	-0.649072
.000000	-0.194722	-6.783687	
1.00000	-347.143147	-22.612292	-0.649072
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	142.621546	28.255710	133.549497
.000000	160.259397	33.906853	
0.25000	142.621546	28.255710	133.549497
.000000	120.194547	25.430139	
0.50000	142.621546	28.255710	133.549497
.000000	80.129698	16.953426	
0.75000	142.621546	28.255710	133.549497
.000000	40.064849	8.476713	
1.00000	142.621546	28.255710	133.549497
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-389.491546	-30.479733	-53.728551
.000000	-64.474261	-36.575680	
0.25000	-389.491546	-30.479733	-53.728551
.000000	-48.355696	-27.431760	
0.50000	-389.491546	-30.479733	-53.728551
.000000	-32.237131	-18.287840	
0.75000	-389.491546	-30.479733	-53.728551
.000000	-16.118565	-9.143924	
1.00000	-389.491546	-30.479733	-53.728551
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	204.313158	57.189729	165.179382
.000000	198.215258	68.627675	
0.25000	204.313158	57.189729	165.179382
.000000	148.661444	51.470756	
0.50000	204.313158	57.189729	165.179382
.000000	99.107629	34.313837	
0.75000	204.313158	57.189729	165.179382
.000000	49.553815	17.156919	
1.00000	204.313158	57.189729	165.179382
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1139.872	-57.327727	-74.763094
.000000	-89.715713	-68.793272	
0.25000	-1139.872	-57.327727	-74.763094
.000000	-67.286785	-51.594954	
0.50000	-1139.872	-57.327727	-74.763094
.000000	-44.857856	-34.396636	
0.75000	-1139.872	-57.327727	-74.763094
.000000	-22.428928	-17.198336	
1.00000	-1139.872	-57.327727	-74.763094
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4950

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	218.488116	64.144847	154.944818
.000000	185.933781	76.973816	
0.25000	218.488116	64.144847	154.944818
.000000	139.450336	57.730362	
0.50000	218.488116	64.144847	154.944818
.000000	92.966891	38.486908	
0.75000	218.488116	64.144847	154.944818
.000000	46.483445	19.243454	
1.00000	218.488116	64.144847	154.944818
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-957.972061	-64.942965	-85.056646
.000000	-102.067975	-77.931558	
0.25000	-957.972061	-64.942965	-85.056646
.000000	-76.550981	-58.448669	
0.50000	-957.972061	-64.942965	-85.056646
.000000	-51.033987	-38.965779	
0.75000	-957.972061	-64.942965	-85.056646
.000000	-25.516994	-19.482893	
1.00000	-957.972061	-64.942965	-85.056646
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	59.999604	26.543442	47.726425
.000000	57.271710	31.852130	
0.25000	59.999604	26.543442	47.726425
.000000	42.953783	23.889098	
0.50000	59.999604	26.543442	47.726425
.000000	28.635855	15.926065	
0.75000	59.999604	26.543442	47.726425
.000000	14.317928	7.963033	
1.00000	59.999604	26.543442	47.726425
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-14.728143	-29.007210	-13.291193
.000000	-15.949432	-34.808652	
0.25000	-14.728143	-29.007210	-13.291193
.000000	-11.962074	-26.106489	
0.50000	-14.728143	-29.007210	-13.291193
.000000	-7.974716	-17.404326	
0.75000	-14.728143	-29.007210	-13.291193
.000000	-3.987358	-8.702163	
1.00000	-14.728143	-29.007210	-13.291193
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	153.280869	45.625673	51.891230
.000000	62.226976	54.750807	
0.25000	153.280869	45.625673	51.891230
.000000	46.702107	41.063105	
0.50000	153.280869	45.625673	51.891230
.000000	31.134738	27.375404	
0.75000	153.280869	45.625673	51.891230
.000000	15.567369	13.687702	
1.00000	153.280869	45.625673	51.891230
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-43.595149	-46.471923	-113.914805
.000000	-136.697766	-55.766307	
0.25000	-43.595149	-46.471923	-113.914805
.000000	-102.523325	-41.824730	
0.50000	-43.595149	-46.471923	-113.914805
.000000	-68.348883	-27.883154	
0.75000	-43.595149	-46.471923	-113.914805
.000000	-34.174442	-13.941577	
1.00000	-43.595149	-46.471923	-113.914805
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4951

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	174.495810	44.644890	97.533698
.000000	117.040437	53.573868	
0.25000	174.495810	44.644890	97.533698
.000000	87.780328	40.180401	
0.50000	174.495810	44.644890	97.533698
.000000	58.520219	26.786934	
0.75000	174.495810	44.644890	97.533698
.000000	29.260109	13.393467	
1.00000	174.495810	44.644890	97.533698
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-229.771448	-47.188047	-65.478153
.000000	-78.573783	-56.625657	
0.25000	-229.771448	-47.188047	-65.478153
.000000	-58.930337	-42.469243	
0.50000	-229.771448	-47.188047	-65.478153
.000000	-39.286892	-28.312828	
0.75000	-229.771448	-47.188047	-65.478153
.000000	-19.643446	-14.156424	
1.00000	-229.771448	-47.188047	-65.478153
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	205.525015	60.545125	191.125098
.000000	229.350118	72.654150	
0.25000	205.525015	60.545125	191.125098
.000000	172.012588	54.490612	
0.50000	205.525015	60.545125	191.125098
.000000	114.675059	36.327075	
0.75000	205.525015	60.545125	191.125098
.000000	57.337529	18.163537	
1.00000	205.525015	60.545125	191.125098
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-716.178967	-63.841884	-62.286941
.000000	-74.744329	-76.610261	
0.25000	-716.178967	-63.841884	-62.286941
.000000	-56.058247	-57.457696	
0.50000	-716.178967	-63.841884	-62.286941
.000000	-37.372165	-38.305131	
0.75000	-716.178967	-63.841884	-62.286941
.000000	-18.686082	-19.152573	
1.00000	-716.178967	-63.841884	-62.286941
.000000	.000000	.000000	

COMB DB ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	116.698492	48.170347	143.834095
.000000	172.600914	57.804416	
0.25000	116.698492	48.170347	143.834095
.000000	129.450686	43.353312	
0.50000	116.698492	48.170347	143.834095
.000000	86.300457	28.902208	
0.75000	116.698492	48.170347	143.834095
.000000	43.150229	14.451104	
1.00000	116.698492	48.170347	143.834095
.000000	.000000	.000000	

COMB DB ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-796.399381	-50.275455	-98.459245
.000000	-118.151094	-60.330546	
0.25000	-796.399381	-50.275455	-98.459245
.000000	-88.613321	-45.247909	
0.50000	-796.399381	-50.275455	-98.459245
.000000	-59.075547	-30.165273	
0.75000	-796.399381	-50.275455	-98.459245
.000000	-29.537774	-15.082636	
1.00000	-796.399381	-50.275455	-98.459245
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page 4952

< MOVING LOAD >

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	233.664173	76.432341	191.125098
.000000	229.350118	91.718809	
0.25000	233.664173	76.432341	191.125098
.000000	172.012588	68.789107	
0.50000	233.664173	76.432341	191.125098
.000000	114.675059	45.859404	
0.75000	233.664173	76.432341	191.125098
.000000	57.337529	22.929702	
1.00000	233.664173	76.432341	191.125098
.000000	.000000	.000000	

COMB DL ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1595.970	-74.004840	-147.344449
.000000	-176.813338	-88.805808	
0.25000	-1595.970	-74.004840	-147.344449
.000000	-132.610004	-66.604356	
0.50000	-1595.970	-74.004840	-147.344449
.000000	-88.406669	-44.402904	
0.75000	-1595.970	-74.004840	-147.344449
.000000	-44.203335	-22.201460	
1.00000	-1595.970	-74.004840	-147.344449
.000000	.000000	.000000	

COMB CAR ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	233.664173	76.432341	191.125098
.000000	229.350118	91.718809	
0.25000	233.664173	76.432341	191.125098
.000000	172.012588	68.789107	
0.50000	233.664173	76.432341	191.125098
.000000	114.675059	45.859404	
0.75000	233.664173	76.432341	191.125098
.000000	57.337529	22.929702	
1.00000	233.664173	76.432341	191.125098
.000000	.000000	.000000	

COMB CAR ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1595.970	-74.004840	-147.344449
.000000	-176.813338	-88.805808	
0.25000	-1595.970	-74.004840	-147.344449
.000000	-132.610004	-66.604356	
0.50000	-1595.970	-74.004840	-147.344449
.000000	-88.406669	-44.402904	
0.75000	-1595.970	-74.004840	-147.344449
.000000	-44.203335	-22.201460	
1.00000	-1595.970	-74.004840	-147.344449
.000000	.000000	.000000	

COMB DESIGN ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	233.664173	76.432341	191.125098
.000000	229.350118	91.718809	
0.25000	233.664173	76.432341	191.125098
.000000	172.012588	68.789107	
0.50000	233.664173	76.432341	191.125098
.000000	114.675059	45.859404	
0.75000	233.664173	76.432341	191.125098
.000000	57.337529	22.929702	
1.00000	233.664173	76.432341	191.125098
.000000	.000000	.000000	

COMB DESIGN ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1595.970	-74.004840	-147.344449
.000000	-176.813338	-88.805808	
0.25000	-1595.970	-74.004840	-147.344449
.000000	-132.610004	-66.604356	

```
0.50000   -1595.970   -74.004840  -147.344449
  .000000   -88.406669   -44.402904
0.75000   -1595.970   -74.004840  -147.344449
  .000000   -44.203335   -22.201460
1.00000   -1595.970   -74.004840  -147.344449
  .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                  4953

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM     485 ================== LENGTH
=     1.200000

COMB DB-G1-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     50.427432      0.035837      10.016073
  .000000     12.019288      0.042863
0.25000     50.427432      0.035837      10.016073
  .000000      9.014466      0.032154
0.50000     50.427432      0.035837      10.016073
  .000000      6.009644      0.021420
0.75000     50.427432      0.035837      10.016073
  .000000      3.004822      0.010517
1.00000     50.427432      0.035837      10.016073
  .000000      .000000      .000000

COMB DB-G1-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -591.518792     -0.179882     -50.275255
  .000000    -60.330305     -0.215861
0.25000   -591.518792     -0.179882     -50.275255
  .000000    -45.247729     -0.161896
0.50000   -591.518792     -0.179882     -50.275255
  .000000    -30.165153     -0.107912
0.75000   -591.518792     -0.179882     -50.275255
  .000000    -15.082576     -0.053906
1.00000   -591.518792     -0.179882     -50.275255
  .000000      .000000      .000000

COMB DB-G1-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     85.620628      0.449315      125.579147
  .000000    150.694976      0.539069
0.25000     85.620628      0.449315      125.579147
  .000000    113.021232      0.404209
0.50000     85.620628      0.449315      125.579147
  .000000     75.347488      0.269408
0.75000     85.620628      0.449315      125.579147
  .000000     37.673744      0.134470
1.00000     85.620628      0.449315      125.579147
  .000000      .000000      .000000

COMB DB-G1-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -796.597681     -0.174472     -48.763131
  .000000    -58.515758     -0.209492
0.25000   -796.597681     -0.174472     -48.763131
  .000000    -43.886818     -0.157077
0.50000   -796.597681     -0.174472     -48.763131
  .000000    -29.257879     -0.104699
0.75000   -796.597681     -0.174472     -48.763131
  .000000    -14.628939     -0.052217
1.00000   -796.597681     -0.174472     -48.763131
  .000000      .000000      .000000

COMB DB-G1-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     103.015059      0.324763      90.768733
  .000000     108.922480      0.389593
0.25000     103.015059      0.324763      90.768733
  .000000      81.691860      0.292218
0.50000     103.015059      0.324763      90.768733
  .000000      54.461240      0.194694
0.75000     103.015059      0.324763      90.768733
  .000000      27.230620      0.097035
1.00000     103.015059      0.324763      90.768733
  .000000      .000000      .000000

COMB DB-G1-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -764.611610     -0.155777     -43.538054
  .000000    -52.245665     -0.187002
0.25000   -764.611610     -0.155777     -43.538054
  .000000    -39.184249     -0.140223
0.50000   -764.611610     -0.155777     -43.538054
  .000000    -26.122832     -0.093467
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                  4954

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.75000   -764.611610     -0.155777     -43.538054
  .000000    -13.061416     -0.046578
1.00000   -764.611610     -0.155777     -43.538054
  .000000      .000000      .000000

COMB DB-G1-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     125.083788      0.303546      84.838064
  .000000     101.305676      0.364158
0.25000     125.083788      0.303546      84.838064
  .000000      76.354257      0.273036
0.50000     125.083788      0.303546      84.838064
  .000000      50.902838      0.181953
0.75000     125.083788      0.303546      84.838064
  .000000      25.451419      0.090739
1.00000     125.083788      0.303546      84.838064
  .000000      .000000      .000000

COMB DB-G1-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -642.458240     -0.357638     -99.958227
  .000000    -119.949872     -0.429144
0.25000   -642.458240     -0.357638     -99.958227
  .000000     -89.962404     -0.321834
0.50000   -642.458240     -0.357638     -99.958227
  .000000     -59.974936     -0.214531
0.75000   -642.458240     -0.357638     -99.958227
  .000000     -29.987468     -0.107103
1.00000   -642.458240     -0.357638     -99.958227
  .000000      .000000      .000000

COMB DB-G2-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     36.978024      0.465423      130.082193
  .000000     156.098632      0.558500
0.25000     36.978024      0.465423      130.082193
  .000000     117.073974      0.418875
0.50000     36.978024      0.465423      130.082193
  .000000      78.049316      0.279210
0.75000     36.978024      0.465423      130.082193
  .000000      39.024658      0.139620
1.00000     36.978024      0.465423      130.082193
  .000000      .000000      .000000

COMB DB-G2-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -150.649855     -0.003714     -1.038126
  .000000     -1.245751     -0.004544
0.25000   -150.649855     -0.003714     -1.038126
  .000000     -0.934314     -0.003372
0.50000   -150.649855     -0.003714     -1.038126
  .000000     -0.622876     -0.002248
0.75000   -150.649855     -0.003714     -1.038126
  .000000     -0.311438     -0.001093
1.00000   -150.649855     -0.003714     -1.038126
  .000000      .000000      .000000

COMB DB-G2-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     83.794507      0.352445      98.505009
  .000000     118.206011      0.452912
0.25000     83.794507      0.352445      98.505009
  .000000     88.654508      0.317175
0.50000     83.794507      0.352445      98.505009
  .000000     59.103006      0.211437
0.75000     83.794507      0.352445      98.505009
  .000000     29.551503      0.105642
1.00000     83.794507      0.352445      98.505009
  .000000      .000000      .000000

COMB DB-G2-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -174.300826     -0.182714     -51.069217
  .000000    -61.283060     -0.219234
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                  4955

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.25000   -174.300826     -0.182714     -51.069217
  .000000    -45.962295     -0.164393
0.50000   -174.300826     -0.182714     -51.069217
  .000000    -30.641530     -0.109579
0.75000   -174.300826     -0.182714     -51.069217
  .000000    -15.320765     -0.054741
1.00000   -174.300826     -0.182714     -51.069217
  .000000      .000000      .000000

COMB DB-G2-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     114.383070      0.480755      134.366482
  .000000     161.239779      0.576890
0.25000     114.383070      0.480755      134.366482
  .000000     120.929834      0.432659
0.50000     114.383070      0.480755      134.366482
  .000000      80.619889      0.288429
0.75000     114.383070      0.480755      134.366482
  .000000      40.309945      0.144150
1.00000     114.383070      0.480755      134.366482
  .000000      .000000      .000000

COMB DB-G2-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -558.651138     -0.230755     -64.495822
  .000000    -77.394987     -0.276871
0.25000   -558.651138     -0.230755     -64.495822
  .000000    -58.046240     -0.207543
0.50000   -558.651138     -0.230755     -64.495822
  .000000    -38.697493     -0.138348
0.75000   -558.651138     -0.230755     -64.495822
  .000000    -19.348747     -0.069101
1.00000   -558.651138     -0.230755     -64.495822
  .000000      .000000      .000000

COMB DB-G2-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     111.086982      0.446748      124.861889
  .000000     149.834267      0.536082
0.25000     111.086982      0.446748      124.861889
  .000000     112.375700      0.402039
0.50000     111.086982      0.446748      124.861889
  .000000      74.917133      0.267992
0.75000     111.086982      0.446748      124.861889
  .000000      37.458567      0.133910
1.00000     111.086982      0.446748      124.861889
  .000000      .000000      .000000

COMB DB-G2-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -469.993894     -0.256922     -71.809184
  .000000     -66.171021     -0.308269
0.25000   -469.993894     -0.256922     -71.809184
  .000000     -64.628266     -0.231170
0.50000   -469.993894     -0.256922     -71.809184
  .000000     -43.085510     -0.154061
0.75000   -469.993894     -0.256922     -71.809184
  .000000     -21.542755     -0.076927
1.00000   -469.993894     -0.256922     -71.809184
  .000000      .000000      .000000

COMB DB-G3-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     21.148928      0.091841      25.668615
  .000000     30.802337      0.110210
0.25000     21.148928      0.091841      25.668615
  .000000     23.101753      0.082657
0.50000     21.148928      0.091841      25.668615
  .000000     15.401169      0.055106
0.75000     21.148928      0.091841      25.668615
  .000000      7.700584      0.027511
1.00000     21.148928      0.091841      25.668615
  .000000      .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                  4956

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -7.436395     -0.036143     -10.102564
  .000000    -12.123076     -0.043332
0.25000    -7.436395     -0.036143     -10.102564
  .000000     -9.092307     -0.032440
0.50000    -7.436395     -0.036143     -10.102564
  .000000     -6.061538     -0.021535
0.75000    -7.436395     -0.036143     -10.102564
  .000000     -3.030769     -0.010591
1.00000    -7.436395     -0.036143     -10.102564
  .000000      .000000      .000000

COMB DB-G3-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     80.685127      0.126668      35.402522
  .000000     42.483027      0.152002
0.25000     80.685127      0.126668      35.402522
  .000000     31.862270      0.113996
0.50000     80.685127      0.126668      35.402522
  .000000     21.241513      0.075966
0.75000     80.685127      0.126668      35.402522
  .000000     10.620757      0.037891
1.00000     80.685127      0.126668      35.402522
  .000000      .000000      .000000

COMB DB-G3-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -22.588380     -0.360492   -100.754627
  .000000   -120.905553     -0.432502
0.25000   -22.588380     -0.360492   -100.754627
  .000000    -90.679165     -0.324363
0.50000   -22.588380     -0.360492   -100.754627
  .000000    -60.452776     -0.216133
0.75000   -22.588380     -0.360492   -100.754627
  .000000    -30.226388     -0.107869
1.00000   -22.588380     -0.360492   -100.754627
  .000000      .000000      .000000

COMB DB-G3-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     84.877945      0.205609      57.465831
  .000000     68.958997      0.246707
0.25000     84.877945      0.205609      57.465831
  .000000     51.719248      0.185029
0.50000     84.877945      0.205609      57.465831
  .000000     34.479498      0.123325
0.75000     84.877945      0.205609      57.465831
  .000000     17.239749      0.061524
1.00000     84.877945      0.205609      57.465831
  .000000      .000000      .000000

COMB DB-G3-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -104.640339     -0.176204     -49.250121
  .000000    -59.100145     -0.211296
0.25000   -104.640339     -0.176204     -49.250121
  .000000    -44.325109     -0.158451
0.50000   -104.640339     -0.176204     -49.250121
  .000000    -29.550073     -0.105527
0.75000   -104.640339     -0.176204     -49.250121
  .000000    -14.775036     -0.052577
1.00000   -104.640339     -0.176204     -49.250121
  .000000      .000000      .000000

COMB DB-G3-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     101.605036      0.526638      147.190263
  .000000     176.628316      0.631946
0.25000     101.605036      0.526638      147.190263
  .000000     132.471237      0.473956
0.50000     101.605036      0.526638      147.190263
  .000000      88.314158      0.315947
0.75000     101.605036      0.526638      147.190263
  .000000      44.157079      0.157880
1.00000     101.605036      0.526638      147.190263
  .000000      .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                  4957

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -343.925602     -0.170915     -47.771832
  .000000    -57.326198     -0.205010
0.25000   -343.925602     -0.170915     -47.771832
  .000000    -42.994649     -0.153728
0.50000   -343.925602     -0.170915     -47.771832
  .000000    -28.663099     -0.102387
0.75000   -343.925602     -0.170915     -47.771832
  .000000    -14.331550     -0.051005
1.00000   -343.925602     -0.170915     -47.771832
  .000000      .000000      .000000

COMB DL-G1-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     110.397322      0.058175      16.271763
  .000000     19.526115      0.068805
0.25000     110.397322      0.058175      16.271763
  .000000     14.644586      0.052005
0.50000     110.397322      0.058175      16.271763
  .000000      9.763058      0.034519
0.75000     110.397322      0.058175      16.271763
  .000000      4.881529      0.016769
1.00000     110.397322      0.058175      16.271763
  .000000      .000000      .000000

COMB DL-G1-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1148.806     -0.427799     -119.582075
  .000000    -143.498489     -0.513118
0.25000    -1148.806     -0.427799     -119.582075
  .000000    -107.623867     -0.384795
0.50000    -1148.806     -0.427799     -119.582075
  .000000     -71.749245     -0.256480
0.75000    -1148.806     -0.427799     -119.582075
  .000000     -35.874622     -0.128076
1.00000    -1148.806     -0.427799     -119.582075
  .000000      .000000      .000000

COMB DL-G1-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     185.812403      0.593416      165.892574
  .000000     199.071988      0.710945
0.25000     185.812403      0.593416      165.892574
  .000000     149.303317      0.533468
0.50000     185.812403      0.593416      165.892574
  .000000      99.535545      0.355386
0.75000     185.812403      0.593416      165.892574
  .000000      49.767772      0.177434
1.00000     185.812403      0.593416      165.892574
  .000000      .000000      .000000

COMB DL-G1-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1590.802     -0.371435     -103.830295
  .000000    -124.596354     -0.445515
0.25000    -1590.802     -0.371435     -103.830295
  .000000     -93.447265     -0.333900
0.50000    -1590.802     -0.371435     -103.830295
  .000000     -62.298177     -0.222679
0.75000    -1590.802     -0.371435     -103.830295
  .000000     -31.149088     -0.110943
1.00000    -1590.802     -0.371435     -103.830295
  .000000      .000000      .000000

COMB DL-G1-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     225.614698      0.485995      135.905841
  .000000     163.087010      0.582238
0.25000     225.614698      0.485995      135.905841
  .000000     122.315257      0.437109
0.50000     225.614698      0.485995      135.905841
  .000000      81.543505      0.291200
0.75000     225.614698      0.485995      135.905841
  .000000      40.771752      0.145532
1.00000     225.614698      0.485995      135.905841
  .000000      .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                  4958

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1528.292     -0.358971     -100.331718
  .000000    -120.398062     -0.429810
0.25000    -1528.292     -0.358971     -100.331718
  .000000     -90.298547     -0.322002
0.50000    -1528.292     -0.358971     -100.331718
  .000000     -60.199031     -0.214248
0.75000    -1528.292     -0.358971     -100.331718
  .000000     -30.099516     -0.106575
1.00000    -1528.292     -0.358971     -100.331718
  .000000      .000000      .000000

COMB DL-G1-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     260.989771      0.450031      125.849836
  .000000     151.019803      0.539022
0.25000     260.989771      0.450031      125.849836
  .000000     113.264852      0.404586
0.50000     260.989771      0.450031      125.849836
  .000000      75.509902      0.269504
0.75000     260.989771      0.450031      125.849836
  .000000      37.754951      0.134569
1.00000     260.989771      0.450031      125.849836
  .000000      .000000      .000000

COMB DL-G1-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1282.109     -0.544177     -152.097504
  .000000    -182.517005     -0.652019
0.25000    -1282.109     -0.544177     -152.097504
  .000000    -136.887754     -0.488094
0.50000    -1282.109     -0.544177     -152.097504
  .000000     -91.258503     -0.324686
0.75000    -1282.109     -0.544177     -152.097504
  .000000     -45.629251     -0.161620
1.00000    -1282.109     -0.544177     -152.097504
  .000000      .000000      .000000

COMB DL-G2-1 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     78.710906      0.611056      170.795503
  .000000     204.954604      0.733082
0.25000     78.710906      0.611056      170.795503
  .000000     153.715953      0.549749
0.50000     78.710906      0.611056      170.795503
  .000000     102.477302      0.366535
0.75000     78.710906      0.611056      170.795503
  .000000      51.238651      0.183190
1.00000     78.710906      0.611056      170.795503
  .000000      .000000      .000000

COMB DL-G2-1 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -345.180340     -0.003322     -0.944654
  .000000    -1.133585     -0.003975
0.25000   -345.180340     -0.003322     -0.944654
  .000000     -0.850189     -0.002930
0.50000   -345.180340     -0.003322     -0.944654
  .000000     -0.566793     -0.001915
0.75000   -345.180340     -0.003322     -0.944654
  .000000     -0.283396     -0.000843
1.00000   -345.180340     -0.003322     -0.944654
  .000000      .000000      .000000

COMB DL-G2-2 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     160.735837      0.480803      134.424485
  .000000     161.309382      0.576916
0.25000     160.735837      0.480803      134.424485
  .000000     120.982037      0.432736
0.50000     160.735837      0.480803      134.424485
  .000000      80.654691      0.288597
0.75000     160.735837      0.480803      134.424485
  .000000      40.327346      0.144514
1.00000     160.735837      0.480803      134.424485
  .000000      .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<                MOVING          LOAD                >
                                  4959

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -386.214531     -0.199430     -55.709541
  .000000    -66.851449     -0.238012
0.25000   -386.214531     -0.199430     -55.709541
  .000000    -50.138587     -0.178222
0.50000   -386.214531     -0.199430     -55.709541
  .000000    -33.425725     -0.118350
0.75000   -386.214531     -0.199430     -55.709541
  .000000    -16.712862     -0.058847
1.00000   -386.214531     -0.199430     -55.709541
  .000000      .000000      .000000

COMB DL-G2-3 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     230.299179      0.599362      167.576471
  .000000     201.091766      0.719482
0.25000     230.299179      0.599362      167.576471
  .000000     150.818824      0.539558
0.50000     230.299179      0.599362      167.576471
  .000000     100.545883      0.359497
0.75000     230.299179      0.599362      167.576471
  .000000      50.272941      0.179676
1.00000     230.299179      0.599362      167.576471
  .000000      .000000      .000000

COMB DL-G2-3 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000    -1134.496     -0.282388     -78.909724
  .000000     -94.691669     -0.337693
0.25000    -1134.496     -0.282388     -78.909724
  .000000     -71.018752     -0.252640
0.50000    -1134.496     -0.282388     -78.909724
  .000000     -47.345835     -0.167937
0.75000    -1134.496     -0.282388     -78.909724
  .000000     -23.672917     -0.083563
1.00000    -1134.496     -0.282388     -78.909724
  .000000      .000000      .000000

COMB DL-G2-4 -------------------- MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000     243.794368      0.567491      158.681583
  .000000     190.417900      0.680924
0.25000     243.794368      0.567491      158.681583
  .000000     142.813425      0.510654
0.50000     243.794368      0.567491      158.681583
  .000000      95.208950      0.340273
0.75000     243.794368      0.567491      158.681583
  .000000      47.604475      0.169745
1.00000     243.794368      0.567491      158.681583
  .000000      .000000      .000000

COMB DL-G2-4 -------------------- MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -950.976257     -0.322470     -90.118324
  .000000   -108.141989     -0.385585
0.25000   -950.976257     -0.322470     -90.118324
  .000000    -81.106492     -0.288715
```

0.50000 -950.976257 -0.322470 -90.118324
.000000 -54.070994 -0.191510
0.75000 -950.976257 -0.322470 -90.118324
.000000 -27.035497 -0.094997
1.00000 -950.976257 -0.322470 -90.118324
.000000 .000000 .000000

COMB DL-G3-1 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 65.109284 0.180589 50.501663
.000000 60.601995 0.216327
0.25000 65.109284 0.180589 50.501663
.000000 45.451496 0.162113
0.50000 65.109284 0.180589 50.501663
.000000 30.300998 0.108091
0.75000 65.109284 0.180589 50.501663
.000000 15.150499 0.053796
1.00000 65.109284 0.180589 50.501663
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4960

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB DL-G3-1 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.082461 -0.059895 -16.758045
.000000 -20.109654 -0.071719
0.25000 -11.082461 -0.059895 -16.758045
.000000 -15.082241 -0.052562
0.50000 -11.082461 -0.059895 -16.758045
.000000 -10.054827 -0.034595
0.75000 -11.082461 -0.059895 -16.758045
.000000 -5.027414 -0.016693
1.00000 -11.082461 -0.059895 -16.758045
.000000 .000000 .000000

COMB DL-G3-2 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 164.327196 0.201207 56.265110
.000000 67.518132 0.240891
0.25000 164.327196 0.201207 56.265110
.000000 50.638599 0.180492
0.50000 164.327196 0.201207 56.265110
.000000 33.759066 0.120219
0.75000 164.327196 0.201207 56.265110
.000000 16.879533 0.059920
1.00000 164.327196 0.201207 56.265110
.000000 .000000 .000000

COMB DL-G3-2 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -38.396617 -0.424487 -118.662961
.000000 -142.395553 -0.508900
0.25000 -38.396617 -0.424487 -118.662961
.000000 -106.796665 -0.379830
0.50000 -38.396617 -0.424487 -118.662961
.000000 -71.197777 -0.252234
0.75000 -38.396617 -0.424487 -118.662961
.000000 -35.598888 -0.125473
1.00000 -38.396617 -0.424487 -118.662961
.000000 .000000 .000000

COMB DL-G3-3 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 193.273918 0.362946 101.499174
.000000 121.799009 0.435116
0.25000 193.273918 0.362946 101.499174
.000000 91.349257 0.326277
0.50000 193.273918 0.362946 101.499174
.000000 60.899505 0.217677
0.75000 193.273918 0.362946 101.499174
.000000 30.449752 0.109039
1.00000 193.273918 0.362946 101.499174
.000000 .000000 .000000

COMB DL-G3-3 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -223.546500 -0.253013 -70.718535
.000000 -84.862243 -0.302738
0.25000 -223.546500 -0.253013 -70.718535
.000000 -63.646682 -0.224926
0.50000 -223.546500 -0.253013 -70.718535
.000000 -42.431121 -0.149230
0.75000 -223.546500 -0.253013 -70.718535
.000000 -21.215561 -0.073675
1.00000 -223.546500 -0.253013 -70.718535
.000000 .000000 .000000

COMB DL-G3-4 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 229.011058 0.696931 194.834755
.000000 233.801706 0.836078
0.25000 229.011058 0.696931 194.834755
.000000 175.351279 0.626946
0.50000 229.011058 0.696931 194.834755
.000000 116.900853 0.417858
0.75000 229.011058 0.696931 194.834755
.000000 58.450426 0.209082
1.00000 229.011058 0.696931 194.834755
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4961

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB DL-G3-4 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -709.134348 -0.242969 -67.915344
.000000 -81.498413 -0.290795
0.25000 -709.134348 -0.242969 -67.915344
.000000 -61.123810 -0.216315
0.50000 -709.134348 -0.242969 -67.915344
.000000 -40.749206 -0.143396
0.75000 -709.134348 -0.242969 -67.915344
.000000 -20.374603 -0.071057
1.00000 -709.134348 -0.242969 -67.915344
.000000 .000000 .000000

COMB DB ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 125.083788 0.526638 147.190263
.000000 176.628316 0.631946
0.25000 125.083788 0.526638 147.190263
.000000 132.471237 0.473956
0.50000 125.083788 0.526638 147.190263
.000000 88.314158 0.315947
0.75000 125.083788 0.526638 147.190263
.000000 44.157079 0.157880
1.00000 125.083788 0.526638 147.190263
.000000 .000000 .000000

COMB DB ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -796.597681 -0.360492 -100.754627
.000000 -120.905553 -0.432502
0.25000 -796.597681 -0.360492 -100.754627
.000000 -90.679165 -0.324363
0.50000 -796.597681 -0.360492 -100.754627
.000000 -60.452776 -0.216133
0.75000 -796.597681 -0.360492 -100.754627
.000000 -30.226388 -0.107869
1.00000 -796.597681 -0.360492 -100.754627
.000000 .000000 .000000

COMB DL ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 260.989771 0.696931 194.834755
.000000 233.801706 0.836078
0.25000 260.989771 0.696931 194.834755
.000000 175.351279 0.626946
0.50000 260.989771 0.696931 194.834755
.000000 116.900853 0.417858
0.75000 260.989771 0.696931 194.834755
.000000 58.450426 0.209082
1.00000 260.989771 0.696931 194.834755
.000000 .000000 .000000

COMB DL ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1590.802 -0.544177 -152.097504
.000000 -182.517005 -0.652019
0.25000 -1590.802 -0.544177 -152.097504
.000000 -136.887754 -0.488094
0.50000 -1590.802 -0.544177 -152.097504
.000000 -91.258503 -0.324686
0.75000 -1590.802 -0.544177 -152.097504
.000000 -45.629251 -0.161620
1.00000 -1590.802 -0.544177 -152.097504
.000000 .000000 .000000

COMB CAR ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 260.989771 0.696931 194.834755
.000000 233.801706 0.836078
0.25000 260.989771 0.696931 194.834755
.000000 175.351279 0.626946
0.50000 260.989771 0.696931 194.834755
.000000 116.900853 0.417858
0.75000 260.989771 0.696931 194.834755
.000000 58.450426 0.209082
1.00000 260.989771 0.696931 194.834755
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4962

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB CAR ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1590.802 -0.544177 -152.097504
.000000 -182.517005 -0.652019
0.25000 -1590.802 -0.544177 -152.097504
.000000 -136.887754 -0.488094
0.50000 -1590.802 -0.544177 -152.097504
.000000 -91.258503 -0.324686
0.75000 -1590.802 -0.544177 -152.097504
.000000 -45.629251 -0.161620
1.00000 -1590.802 -0.544177 -152.097504
.000000 .000000 .000000

COMB DESIGN ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 260.989771 0.696931 194.834755
.000000 233.801706 0.836078
0.25000 260.989771 0.696931 194.834755
.000000 175.351279 0.626946
0.50000 260.989771 0.696931 194.834755
.000000 116.900853 0.417858
0.75000 260.989771 0.696931 194.834755
.000000 58.450426 0.209082
1.00000 260.989771 0.696931 194.834755
.000000 .000000 .000000

COMB DESIGN ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1590.802 -0.544177 -152.097504
.000000 -182.517005 -0.652019
0.25000 -1590.802 -0.544177 -152.097504
.000000 -136.887754 -0.488094
0.50000 -1590.802 -0.544177 -152.097504
.000000 -91.258503 -0.324686
0.75000 -1590.802 -0.544177 -152.097504
.000000 -45.629251 -0.161620
1.00000 -1590.802 -0.544177 -152.097504
.000000 .000000 .000000

ELEM 486 ================== LENGTH
= 1.200000

COMB DB-G1-1 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 43.713583 0.779617 22.314135
.000000 26.776961 0.935540
0.25000 43.713583 0.779617 22.314135
.000000 20.082721 0.701655
0.50000 43.713583 0.779617 22.314135
.000000 13.388481 0.467770
0.75000 43.713583 0.779617 22.314135
.000000 6.694240 0.233885
1.00000 43.713583 0.779617 22.314135
.000000 .000000 .000000

COMB DB-G1-1 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -592.537758 -2.266951 -64.884521
.000000 -77.861425 -2.720341
0.25000 -592.537758 -2.266951 -64.884521
.000000 -58.396069 -2.040256
0.50000 -592.537758 -2.266951 -64.884521
.000000 -38.930713 -1.360171
0.75000 -592.537758 -2.266951 -64.884521
.000000 -19.465356 -0.680085
1.00000 -592.537758 -2.266951 -64.884521
.000000 .000000 .000000

COMB DB-G1-2 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 73.754762 4.869154 139.364582
.000000 167.237499 5.842985
0.25000 73.754762 4.869154 139.364582
.000000 125.428124 4.382238
0.50000 73.754762 4.869154 139.364582
.000000 83.618749 2.921492
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4963

F R A M E E L E M E N T I N T E R N A
L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 73.754762 4.869154 139.364582
.000000 41.809375 1.460746
1.00000 73.754762 4.869154 139.364582
.000000 .000000 .000000

COMB DB-G1-2 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -805.341957 -2.540327 -72.709054
.000000 -87.250865 -3.048392
0.25000 -805.341957 -2.540327 -72.709054
.000000 -65.438149 -2.286294
0.50000 -805.341957 -2.540327 -72.709054
.000000 -43.625433 -1.524196
0.75000 -805.341957 -2.540327 -72.709054
.000000 -21.812716 -0.762098
1.00000 -805.341957 -2.540327 -72.709054
.000000 .000000 .000000

COMB DB-G1-3 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 87.136481 4.050965 115.946438
.000000 139.135726 4.861158
0.25000 87.136481 4.050965 115.946438
.000000 104.351794 3.645868
0.50000 87.136481 4.050965 115.946438
.000000 69.567863 2.430579
0.75000 87.136481 4.050965 115.946438
.000000 34.783931 1.215289
1.00000 87.136481 4.050965 115.946438
.000000 .000000 .000000

COMB DB-G1-3 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -788.908307 -2.471181 -70.729985
.000000 -84.875982 -2.965418
0.25000 -788.908307 -2.471181 -70.729985
.000000 -63.656987 -2.224063
0.50000 -788.908307 -2.471181 -70.729985
.000000 -42.437991 -1.482709
0.75000 -788.908307 -2.471181 -70.729985
.000000 -21.218996 -0.741343
1.00000 -788.908307 -2.471181 -70.729985
.000000 .000000 .000000

COMB DB-G1-4 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 112.000464 3.873099 110.855574
.000000 133.026688 4.647719
0.25000 112.000464 3.873099 110.855574
.000000 99.770016 3.485789
0.50000 112.000464 3.873099 110.855574
.000000 66.513344 2.323859
0.75000 112.000464 3.873099 110.855574
.000000 33.256672 1.161930
1.00000 112.000464 3.873099 110.855574
.000000 .000000 .000000

COMB DB-G1-4 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -664.780742 -4.200573 -120.228521
.000000 -144.274225 -5.040688
0.25000 -664.780742 -4.200573 -120.228521
.000000 -108.205669 -3.780516
0.50000 -664.780742 -4.200573 -120.228521
.000000 -72.137113 -2.520344
0.75000 -664.780742 -4.200573 -120.228521
.000000 -36.068556 -1.260163
1.00000 -664.780742 -4.200573 -120.228521
.000000 .000000 .000000

COMB DB-G2-1 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 30.977172 4.490688 128.532170
.000000 154.238604 5.388826
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4964

F R A M E E L E M E N T I N T E R N A
L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 30.977172 4.490688 128.532170
.000000 115.678953 4.041619
0.50000 30.977172 4.490688 128.532170
.000000 77.119302 2.694413
0.75000 30.977172 4.490688 128.532170
.000000 38.559651 1.347216
1.00000 30.977172 4.490688 128.532170
.000000 .000000 .000000

COMB DB-G2-1 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -165.467773 -0.370654 -10.608846
.000000 -12.730616 -0.444785
0.25000 -165.467773 -0.370654 -10.608846
.000000 -9.547962 -0.333589
0.50000 -165.467773 -0.370654 -10.608846
.000000 -6.365308 -0.222393
0.75000 -165.467773 -0.370654 -10.608846
.000000 -3.182654 -0.111196
1.00000 -165.467773 -0.370654 -10.608846
.000000 .000000 .000000

COMB DB-G2-2 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 73.600331 3.976570 113.817115
.000000 136.580339 4.771884
0.25000 73.600331 3.976570 113.817115
.000000 102.435404 3.578913
0.50000 73.600331 3.976570 113.817115
.000000 68.290269 2.385942
0.75000 73.600331 3.976570 113.817115
.000000 34.145135 1.192971
1.00000 73.600331 3.976570 113.817115
.000000 .000000 .000000

COMB DB-G2-2 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -202.595259 -2.187713 -62.616564
.000000 -75.139877 -2.625255
0.25000 -202.595259 -2.187713 -62.616564
.000000 -56.354908 -1.968942
0.50000 -202.595259 -2.187713 -62.616564
.000000 -37.569938 -1.312628
0.75000 -202.595259 -2.187713 -62.616564
.000000 -18.784969 -0.656302
1.00000 -202.595259 -2.187713 -62.616564
.000000 .000000 .000000

COMB DB-G2-3 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 99.926360 5.241181 150.012712
.000000 180.015254 6.289417
0.25000 99.926360 5.241181 150.012712
.000000 135.011441 4.717063
0.50000 99.926360 5.241181 150.012712
.000000 90.007627 3.144667
0.75000 99.926360 5.241181 150.012712
.000000 45.003814 1.572334
1.00000 99.926360 5.241181 150.012712
.000000 .000000 .000000

COMB DB-G2-3 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -585.214502 -2.928218 -83.811242
.000000 -100.573491 -3.513861
0.25000 -585.214502 -2.928218 -83.811242
.000000 -75.430118 -2.635396
0.50000 -585.214502 -2.928218 -83.811242
.000000 -50.286745 -1.756931
0.75000 -585.214502 -2.928218 -83.811242
.000000 -25.143373 -0.878454
1.00000 -585.214502 -2.928218 -83.811242
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4965

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB DB-G2-4 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 102.063372 4.976757 142.444387
.000000 170.933264 5.972108
0.25000 102.063372 4.976757 142.444387
.000000 128.199948 4.479081
0.50000 102.063372 4.976757 142.444387
.000000 85.466632 2.986020
0.75000 102.063372 4.976757 142.444387
.000000 42.733316 1.493010
1.00000 102.063372 4.976757 142.444387
.000000 .000000 .000000

COMB DB-G2-4 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -492.271463 -3.035708 -86.887836
.000000 -104.265403 -3.642850
0.25000 -492.271463 -3.035708 -86.887836
.000000 -78.199052 -2.732138
0.50000 -492.271463 -3.035708 -86.887836
.000000 -52.132702 -1.821425
0.75000 -492.271463 -3.035708 -86.887836
.000000 -26.066351 -0.910703
1.00000 -492.271463 -3.035708 -86.887836
.000000 .000000 .000000

COMB DB-G3-1 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 27.208655 1.090617 31.215563
.000000 37.459676 1.306740
0.25000 27.208655 1.090617 31.215563
.000000 28.094007 0.981555
0.50000 27.208655 1.090617 31.215563
.000000 18.729338 0.654370
0.75000 27.208655 1.090617 31.215563
.000000 9.364669 0.327185
1.00000 27.208655 1.090617 31.215563
.000000 .000000 .000000

COMB DB-G3-1 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.281845 -0.343268 -9.824986
.000000 -11.789983 -0.411921
0.25000 -8.281845 -0.343268 -9.824986
.000000 -8.842487 -0.308941
0.50000 -8.281845 -0.343268 -9.824986
.000000 -5.894992 -0.205961
0.75000 -8.281845 -0.343268 -9.824986
.000000 -2.947496 -0.102895
1.00000 -8.281845 -0.343268 -9.824986
.000000 .000000 .000000

COMB DB-G3-2 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 86.278149 1.680078 48.087067
.000000 57.704481 2.016093
0.25000 86.278149 1.680078 48.087067
.000000 43.278360 1.512070
0.50000 86.278149 1.680078 48.087067
.000000 28.852240 1.008047
0.75000 86.278149 1.680078 48.087067
.000000 14.426120 0.504020
1.00000 86.278149 1.680078 48.087067
.000000 .000000 .000000

COMB DB-G3-2 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -30.330232 -3.430676 -98.192559
.000000 -117.831071 -4.116811
0.25000 -30.330232 -3.430676 -98.192559
.000000 -88.373303 -3.087608
0.50000 -30.330232 -3.430676 -98.192559
.000000 -58.915535 -2.058405
0.75000 -30.330232 -3.430676 -98.192559
.000000 -29.457768 -1.029132
1.00000 -30.330232 -3.430676 -98.192559
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4966

F R A M E E L E M E N T I N T E R N A
L F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 83.440877 2.710024 77.566111
.000000 93.079334 3.252028
0.25000 83.440877 2.710024 77.566111
.000000 69.809500 2.439021
0.50000 83.440877 2.710024 77.566111
.000000 46.539667 1.626014
0.75000 83.440877 2.710024 77.566111
.000000 23.269833 0.813007
1.00000 83.440877 2.710024 77.566111
.000000 .000000 .000000

COMB DB-G3-3 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -128.578203 -1.987410 -56.883520
.000000 -68.260224 -2.384892
0.25000 -128.578203 -1.987410 -56.883520
.000000 -51.195168 -1.788669
0.50000 -128.578203 -1.987410 -56.883520
.000000 -34.130112 -1.192446
0.75000 -128.578203 -1.987410 -56.883520
.000000 -17.065056 -0.596152
1.00000 -128.578203 -1.987410 -56.883520
.000000 .000000 .000000

COMB DB-G3-4 ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 96.023684 5.723664 163.822304
.000000 196.586765 6.868396
0.25000 96.023684 5.723664 163.822304
.000000 147.440074 5.151297
0.50000 96.023684 5.723664 163.822304
.000000 98.293383 3.434198
0.75000 96.023684 5.723664 163.822304
.000000 49.146691 1.717077
1.00000 96.023684 5.723664 163.822304
.000000 .000000 .000000

COMB DB-G3-4 ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -366.453139 -2.120185 -60.683797
.000000 -72.820556 -2.544222
0.25000 -366.453139 -2.120185 -60.683797
.000000 -54.615417 -1.908167

```
0.50000 -366.453139   -2.120185  -60.683797
  .000000  -36.410278   -1.272111
0.75000 -366.453139   -2.120185  -60.683797
  .000000  -18.205139   -0.635993
1.00000 -366.453139   -2.120185  -60.683797
  .000000    .000000    .000000

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   60.438822    1.057209    30.259368
  .000000   36.311242    1.268651
0.25000   60.438822    1.057209    30.259368
  .000000   27.233432    0.951465
0.50000   60.438822    1.057209    30.259368
  .000000   18.155621    0.634362
0.75000   60.438822    1.057209    30.259368
  .000000    9.077811    0.317174
1.00000   60.438822    1.057209    30.259368
  .000000    .000000    .000000

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1192.471  -4.603198  -131.752416
  .000000 -158.102900   -5.523838
0.25000   -1192.471  -4.603198  -131.752416
  .000000 -118.577175   -4.142885
0.50000   -1192.471  -4.603198  -131.752416
  .000000  -79.051450   -2.761825
0.75000   -1192.471  -4.603198  -131.752416
  .000000  -39.525725   -1.380781
1.00000   -1192.471  -4.603198  -131.752416
  .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<            MOVING          LOAD                >
                        4967

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000  101.653053    6.582755    188.411164
  .000000  226.093397    7.869306
0.25000  101.653053    6.582755    188.411164
  .000000  169.570047    5.924449
0.50000  101.653053    6.582755    188.411164
  .000000  113.046698    3.949695
0.75000  101.653053    6.582755    188.411164
  .000000   56.523349    1.974816
1.00000  101.653053    6.582755    188.411164
  .000000    .000000    .000000

COMB DL-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1659.836  -4.555317  -130.381969
  .000000 -156.458363   -5.466349
0.25000   -1659.836  -4.555317  -130.381969
  .000000 -117.343772   -4.099767
0.50000   -1659.836  -4.555317  -130.381969
  .000000  -78.229182   -2.733046
0.75000   -1659.836  -4.555317  -130.381969
  .000000  -39.114591   -1.366324
1.00000   -1659.836  -4.555317  -130.381969
  .000000    .000000    .000000

COMB DL-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   122.595332    6.069324    173.715783
  .000000  208.458940    7.283150
0.25000   122.595332    6.069324    173.715783
  .000000  156.344205    5.462317
0.50000   122.595332    6.069324    173.715783
  .000000  104.229470    3.641563
0.75000   122.595332    6.069324    173.715783
  .000000   52.114735    1.820673
1.00000   122.595332    6.069324    173.715783
  .000000    .000000    .000000

COMB DL-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1608.290  -4.512426  -129.154338
  .000000 -154.985206   -5.414849
0.25000   -1608.290  -4.512426  -129.154338
  .000000 -116.238904   -4.061101
0.50000   -1608.290  -4.512426  -129.154338
  .000000  -77.492603   -2.707267
0.75000   -1608.290  -4.512426  -129.154338
  .000000  -38.746301   -1.353374
1.00000   -1608.290  -4.512426  -129.154338
  .000000    .000000    .000000

COMB DL-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   161.572553    5.770066    165.150429
  .000000  198.180515    6.924025
0.25000   161.572553    5.770066    165.150429
  .000000  148.635386    5.193294
0.50000   161.572553    5.770066    165.150429
  .000000   99.090258    3.462037
0.75000   161.572553    5.770066    165.150429
  .000000   49.545129    1.730862
1.00000   161.572553    5.770066    165.150429
  .000000    .000000    .000000

COMB DL-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1350.489  -6.051960  -173.218792
  .000000 -207.862550   -7.262309
0.25000   -1350.489  -6.051960  -173.218792
  .000000 -155.896913   -5.446688
0.50000   -1350.489  -6.051960  -173.218792
  .000000 -103.931275   -3.630963
0.75000   -1350.489  -6.051960  -173.218792
  .000000  -51.965638   -1.815120
1.00000   -1350.489  -6.051960  -173.218792
  .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<            MOVING          LOAD                >
                        4968

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   42.490970    6.317984    180.832891
  .000000  216.999469    7.581580
0.25000   42.490970    6.317984    180.832891
  .000000  162.749602    5.686185
0.50000   42.490970    6.317984    180.832891
  .000000  108.499735    3.790787
0.75000   42.490970    6.317984    180.832891
  .000000   54.249867    1.895362
1.00000   42.490970    6.317984    180.832891
  .000000    .000000    .000000

COMB DL-G2-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000 -371.745811   -0.525974   -15.054393
  .000000  -18.065271   -0.631169
0.25000 -371.745811   -0.525974   -15.054393
  .000000  -13.548954   -0.473377

0.50000 -371.745811   -0.525974   -15.054393
  .000000   -9.032636   -0.315565
0.75000 -371.745811   -0.525974   -15.054393
  .000000   -4.516318   -0.157702
1.00000 -371.745811   -0.525974   -15.054393
  .000000    .000000    .000000

COMB DL-G2-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   98.250800    5.710467    163.444603
  .000000  196.133524    6.852554
0.25000   98.250800    5.710467    163.444603
  .000000  147.100143    5.139334
0.50000   98.250800    5.710467    163.444603
  .000000   98.066762    3.426336
0.75000   98.250800    5.710467    163.444603
  .000000   49.033381    1.712899
1.00000   98.250800    5.710467    163.444603
  .000000    .000000    .000000

COMB DL-G2-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000 -426.249523   -2.552555   -73.059038
  .000000  -87.670846   -3.063039
0.25000 -426.249523   -2.552555   -73.059038
  .000000  -65.753135   -2.297242
0.50000 -426.249523   -2.552555   -73.059038
  .000000  -43.835423   -1.531452
0.75000 -426.249523   -2.552555   -73.059038
  .000000  -21.917712   -0.765519
1.00000 -426.249523   -2.552555   -73.059038
  .000000    .000000    .000000

COMB DL-G2-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000  135.266898    7.145602    204.520917
  .000000  245.425101    8.574717
0.25000  135.266898    7.145602    204.520917
  .000000  184.068825    6.430954
0.50000  135.266898    7.145602    204.520917
  .000000  122.712550    4.287324
0.75000  135.266898    7.145602    204.520917
  .000000   61.356275    2.143508
1.00000  135.266898    7.145602    204.520917
  .000000    .000000    .000000

COMB DL-G2-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1202.394  -3.817211  -109.255942
  .000000 -131.107130   -4.580621
0.25000   -1202.394  -3.817211  -109.255942
  .000000  -98.330348   -3.435434
0.50000   -1202.394  -3.817211  -109.255942
  .000000  -65.553565   -2.290194
0.75000   -1202.394  -3.817211  -109.255942
  .000000  -32.776783   -1.144841
1.00000   -1202.394  -3.817211  -109.255942
  .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<            MOVING          LOAD                >
                        4969

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   155.304569    6.861386    196.386120
  .000000  235.663344    8.233716
0.25000   155.304569    6.861386    196.386120
  .000000  176.747508    6.175170
0.50000   155.304569    6.861386    196.386120
  .000000  117.831672    4.116680
0.75000   155.304569    6.861386    196.386120
  .000000   58.915836    2.058302
1.00000   155.304569    6.861386    196.386120
  .000000    .000000    .000000

COMB DL-G2-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1007.676  -3.968202  -113.577607
  .000000 -136.293128   -4.761813
0.25000   -1007.676  -3.968202  -113.577607
  .000000 -102.219846   -3.571292
0.50000   -1007.676  -3.968202  -113.577607
  .000000  -68.146564   -2.380670
0.75000   -1007.676  -3.968202  -113.577607
  .000000  -34.073282   -1.190033
1.00000   -1007.676  -3.968202  -113.577607
  .000000    .000000    .000000

COMB DL-G3-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   56.272984    2.050734    58.695975
  .000000  70.435170    2.460917
0.25000   56.272984    2.050734    58.695975
  .000000  52.826377    1.845569
0.50000   56.272984    2.050734    58.695975
  .000000  35.217585    1.230525
0.75000   56.272984    2.050734    58.695975
  .000000  17.608792    0.615260
1.00000   56.272984    2.050734    58.695975
  .000000    .000000    .000000

COMB DL-G3-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -12.225603   -0.506015   -14.483120
  .000000  -17.379744   -0.620734
0.25000  -12.225603   -0.506015   -14.483120
  .000000  -13.034808   -0.455363
0.50000  -12.225603   -0.506015   -14.483120
  .000000   -8.689872   -0.303475
0.75000  -12.225603   -0.506015   -14.483120
  .000000   -4.344936   -0.151501
1.00000  -12.225603   -0.506015   -14.483120
  .000000    .000000    .000000

COMB DL-G3-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000  134.991308    2.674991    76.563395
  .000000   91.876073    3.210051
0.25000  134.991308    2.674991    76.563395
  .000000   68.907055    2.407486
0.50000  134.991308    2.674991    76.563395
  .000000   45.938037    1.605123
0.75000  134.991308    2.674991    76.563395
  .000000   22.969018    0.802493
1.00000  134.991308    2.674991    76.563395
  .000000    .000000    .000000

COMB DL-G3-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -46.571080   -4.016969  -114.973410
  .000000 -137.968092   -4.820320
0.25000  -46.571080   -4.016969  -114.973410
  .000000 -103.476069   -3.615188
0.50000  -46.571080   -4.016969  -114.973410
  .000000  -68.984046   -2.410013
0.75000  -46.571080   -4.016969  -114.973410
  .000000  -34.492023   -1.204637
1.00000  -46.571080   -4.016969  -114.973410
  .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<            MOVING          LOAD                >
                        4970

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000  137.574711    4.695208    134.385931
  .000000  161.263117    5.634273
0.25000  137.574711    4.695208    134.385931
  .000000  120.947338    4.225628
0.50000  137.574711    4.695208    134.385931
  .000000   80.631559    2.817188
0.75000  137.574711    4.695208    134.385931
  .000000   40.315779    1.408344
1.00000  137.574711    4.695208    134.385931
  .000000    .000000    .000000

COMB DL-G3-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -252.642181  -2.791375   -79.894535
  .000000  -95.873442   -3.349597
0.25000  -252.642181  -2.791375   -79.894535
  .000000  -71.905082   -2.512132
0.50000  -252.642181  -2.791375   -79.894535
  .000000  -47.936721   -1.674621
0.75000  -252.642181  -2.791375   -79.894535
  .000000  -23.968361   -0.836886
1.00000  -252.642181  -2.791375   -79.894535
  .000000    .000000    .000000

COMB DL-G3-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   151.630600    8.044170    230.239688
  .000000  276.287626    9.653018
0.25000   151.630600    8.044170    230.239688
  .000000  207.215720    7.239684
0.50000   151.630600    8.044170    230.239688
  .000000  138.143813    4.826584
0.75000   151.630600    8.044170    230.239688
  .000000   69.071907    2.413056
1.00000   151.630600    8.044170    230.239688
  .000000    .000000    .000000

COMB DL-G3-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -757.362924  -3.037879   -87.980363
  .000000 -105.576436   -3.688599
0.25000  -757.362924  -3.037879   -87.980363
  .000000  -79.182327   -2.766395
0.50000  -757.362924  -3.037879   -87.980363
  .000000  -52.788218   -1.844148
0.75000  -757.362924  -3.037879   -87.980363
  .000000  -26.394109   -0.921655
1.00000  -757.362924  -3.037879   -87.980363
  .000000    .000000    .000000

COMB      DB ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   112.000464    5.723664    163.822304
  .000000  196.586765    6.886396
0.25000   112.000464    5.723664    163.822304
  .000000  147.440074    5.151297
0.50000   112.000464    5.723664    163.822304
  .000000   98.293383    3.434198
0.75000   112.000464    5.723664    163.822304
  .000000   49.146691    1.717077
1.00000   112.000464    5.723664    163.822304
  .000000    .000000    .000000

COMB      DB ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -805.341957  -4.200573   -120.228521
  .000000 -144.274225   -5.040688
0.25000  -805.341957  -4.200573   -120.228521
  .000000 -108.205669   -3.780516
0.50000  -805.341957  -4.200573   -120.228521
  .000000  -72.137113   -2.520344
0.75000  -805.341957  -4.200573   -120.228521
  .000000  -36.068556   -1.260163
1.00000  -805.341957  -4.200573   -120.228521
  .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<            MOVING          LOAD                >
                        4971

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB      DL ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   161.572553    8.044170    230.239688
  .000000  276.287626    9.653018
0.25000   161.572553    8.044170    230.239688
  .000000  207.215720    7.239684
0.50000   161.572553    8.044170    230.239688
  .000000  138.143813    4.826584
0.75000   161.572553    8.044170    230.239688
  .000000   69.071907    2.413056
1.00000   161.572553    8.044170    230.239688
  .000000    .000000    .000000

COMB      DL ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1659.836  -6.051960   -173.218792
  .000000 -207.862550   -7.262309
0.25000   -1659.836  -6.051960   -173.218792
  .000000 -155.896913   -5.446688
0.50000   -1659.836  -6.051960   -173.218792
  .000000 -103.931275   -3.630963
0.75000   -1659.836  -6.051960   -173.218792
  .000000  -51.965638   -1.815120
1.00000   -1659.836  -6.051960   -173.218792
  .000000    .000000    .000000

COMB      CAR ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   161.572553    8.044170    230.239688
  .000000  276.287626    9.653018
0.25000   161.572553    8.044170    230.239688
  .000000  207.215720    7.239684
0.50000   161.572553    8.044170    230.239688
  .000000  138.143813    4.826584
0.75000   161.572553    8.044170    230.239688
  .000000   69.071907    2.413056
1.00000   161.572553    8.044170    230.239688
  .000000    .000000    .000000

COMB      CAR ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1659.836  -6.051960   -173.218792
  .000000 -207.862550   -7.262309
0.25000   -1659.836  -6.051960   -173.218792
  .000000 -155.896913   -5.446688
0.50000   -1659.836  -6.051960   -173.218792
  .000000 -103.931275   -3.630963
0.75000   -1659.836  -6.051960   -173.218792
  .000000  -51.965638   -1.815120
1.00000   -1659.836  -6.051960   -173.218792
  .000000    .000000    .000000

COMB DESIGN ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   161.572553    8.044170    230.239688
  .000000  276.287626    9.653018
0.25000   161.572553    8.044170    230.239688
  .000000  207.215720    7.239684
0.50000   161.572553    8.044170    230.239688
  .000000  138.143813    4.826584
0.75000   161.572553    8.044170    230.239688
  .000000   69.071907    2.413056
1.00000   161.572553    8.044170    230.239688
  .000000    .000000    .000000

COMB DESIGN ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -1659.836  -6.051960   -173.218792
  .000000 -207.862550   -7.262309
0.25000   -1659.836  -6.051960   -173.218792
  .000000 -155.896913   -5.446688
0.50000   -1659.836  -6.051960   -173.218792
  .000000 -103.931275   -3.630963
0.75000   -1659.836  -6.051960   -173.218792
  .000000  -51.965638   -1.815120
1.00000   -1659.836  -6.051960   -173.218792
  .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<            MOVING          LOAD                >
                        4972

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM     487 ================== LENGTH
=    1.100000

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   30.410361    0.991920    17.330225
  .000000  19.063247    1.091112
0.25000   30.410361    0.991920    17.330225
  .000000  14.297435    0.818334
0.50000   30.410361    0.991920    17.330225
  .000000   9.531623    0.545556
0.75000   30.410361    0.991920    17.330225
  .000000   4.765812    0.272777
1.00000   30.410361    0.991920    17.330225
  .000000    .000000    .000000

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -546.227832  -0.170598   -100.764161
  .000000 -110.840577   -0.187648
0.25000  -546.227832  -0.170598   -100.764161
  .000000  -83.130433   -0.140744
0.50000  -546.227832  -0.170598   -100.764161
  .000000  -55.420288   -0.093750
0.75000  -546.227832  -0.170598   -100.764161
  .000000  -27.710144   -0.046817
1.00000  -546.227832  -0.170598   -100.764161
  .000000    .000000    .000000

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   51.169467    1.133020    113.549132
  .000000  124.904045    1.246318
0.25000   51.169467    1.133020    113.549132
  .000000   93.678034    0.934728
0.50000   51.169467    1.133020    113.549132
  .000000   62.452023    0.623140
0.75000   51.169467    1.133020    113.549132
  .000000   31.226011    0.311515
1.00000   51.169467    1.133020    113.549132
  .000000    .000000    .000000

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -736.085310  -1.117775   -115.097804
  .000000 -126.607584   -1.229552
0.25000  -736.085310  -1.117775   -115.097804
  .000000  -94.955688   -0.922155
0.50000  -736.085310  -1.117775   -115.097804
  .000000  -63.303792   -0.614685
0.75000  -736.085310  -1.117775   -115.097804
  .000000  -31.651896   -0.307254
1.00000  -736.085310  -1.117775   -115.097804
  .000000    .000000    .000000

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   59.216684    1.049589    87.161933
  .000000  95.878127    1.154447
0.25000   59.216684    1.049589    87.161933
  .000000  71.908595    0.865843
0.50000   59.216684    1.049589    87.161933
  .000000  47.939063    0.577189
0.75000   59.216684    1.049589    87.161933
  .000000  23.969532    0.288377
1.00000   59.216684    1.049589    87.161933
  .000000    .000000    .000000

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -695.765940  -0.858020   -106.622505
  .000000 -117.284755   -0.948822
0.25000  -695.765940  -0.858020   -106.622505
  .000000  -87.963567   -0.707858
0.50000  -695.765940  -0.858020   -106.622505
  .000000  -58.642378   -0.471827
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<            MOVING          LOAD                >
                        4973

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.75000  -695.765940  -0.858020   -106.622505
  .000000  -29.321189   -0.235821
1.00000  -695.765940  -0.858020   -106.622505
  .000000    .000000    .000000

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000   84.891819    1.389917    84.746001
  .000000  93.220601    1.528829
0.25000   84.891819    1.389917    84.746001
  .000000  69.915451    1.146627
0.50000   84.891819    1.389917    84.746001
  .000000  46.610301    0.764384
0.75000   84.891819    1.389917    84.746001
  .000000  23.305150    0.382027
1.00000   84.891819    1.389917    84.746001
  .000000    .000000    .000000

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000  -582.850083  -0.834238   -141.194720
  .000000 -155.314192   -0.917662
0.25000  -582.850083  -0.834238   -141.194720
  .000000 -116.485644   -0.688240
0.50000  -582.850083  -0.834238   -141.194720
  .000000  -77.657096   -0.458760
0.75000  -582.850083  -0.834238   -141.194720
```

```
    .000000   -38.828548    -0.229285
1.00000 -582.850083    -0.834238 -141.194720
    .000000    .000000     .000000

COMB DB-G2-1 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    20.966735      0.103207     110.248574
    .000000  121.273432      0.113503
0.25000    20.966735      0.103207     110.248574
    .000000   90.355074      0.085077
0.50000    20.966735      0.103207     110.248574
    .000000   60.636716      0.056729
0.75000    20.966735      0.103207     110.248574
    .000000   30.318358      0.028233
1.00000    20.966735      0.103207     110.248574
    .000000    .000000      .000000

COMB DB-G2-1 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -136.283890     -1.085284    -10.484276
    .000000  -11.532704     -1.193813
0.25000 -136.283890     -1.085284    -10.484276
    .000000   -8.649528     -0.895359
0.50000 -136.283890     -1.085284    -10.484276
    .000000   -5.766352     -0.596906
0.75000 -136.283890     -1.085284    -10.484276
    .000000   -2.883176     -0.298453
1.00000 -136.283890     -1.085284    -10.484276
    .000000    .000000      .000000

COMB DB-G2-2 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    53.656363      0.512237      85.139853
    .000000   93.653838      0.563351
0.25000    53.656363      0.512237      85.139853
    .000000   70.240379      0.422521
0.50000    53.656363      0.512237      85.139853
    .000000   46.826919      0.281635
0.75000    53.656363      0.512237      85.139853
    .000000   23.413460      0.140585
1.00000    53.656363      0.512237      85.139853
    .000000    .000000      .000000

COMB DB-G2-2 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -148.702755     -0.838115    -52.035605
    .000000  -57.239166     -0.921926
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 4974

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST         P              V2             V3
       T         M2             M3
0.25000 -148.702755     -0.838115    -52.035605
    .000000  -42.929374     -0.691445
0.50000 -148.702755     -0.838115    -52.035605
    .000000  -28.619583     -0.460961
0.75000 -148.702755     -0.838115    -52.035605
    .000000  -14.309791     -0.230454
1.00000 -148.702755     -0.838115    -52.035605
    .000000    .000000      .000000

COMB DB-G2-3 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    71.711471      0.971529     100.479865
    .000000  110.527852      1.068581
0.25000    71.711471      0.971529     100.479865
    .000000   82.895889      0.801442
0.50000    71.711471      0.971529     100.479865
    .000000   55.263926      0.534251
0.75000    71.711471      0.971529     100.479865
    .000000   27.631963      0.266921
1.00000    71.711471      0.971529     100.479865
    .000000    .000000      .000000

COMB DB-G2-3 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -503.246198     -0.989121    -98.692781
    .000000 -108.562059     -1.088033
0.25000 -503.246198     -0.989121    -98.692781
    .000000  -81.421544     -0.816025
0.50000 -503.246198     -0.989121    -98.692781
    .000000  -54.281030     -0.544007
0.75000 -503.246198     -0.989121    -98.692781
    .000000  -27.140515     -0.271983
1.00000 -503.246198     -0.989121    -98.692781
    .000000    .000000      .000000

COMB DB-G2-4 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    78.630895      0.951632     102.047616
    .000000  112.252378      1.046705
0.25000    78.630895      0.951632     102.047616
    .000000   84.189283      0.785034
0.50000    78.630895      0.951632     102.047616
    .000000   56.126189      0.523337
0.75000    78.630895      0.951632     102.047616
    .000000   28.063094      0.261493
1.00000    78.630895      0.951632     102.047616
    .000000    .000000      .000000

COMB DB-G2-4 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -422.350381     -1.004554    -96.671565
    .000000 -106.338721     -1.105009
0.25000 -422.350381     -1.004554    -96.671565
    .000000  -79.754041     -0.828757
0.50000 -422.350381     -1.004554    -96.671565
    .000000  -53.169361     -0.552503
0.75000 -422.350381     -1.004554    -96.671565
    .000000  -26.584680     -0.276229
1.00000 -422.350381     -1.004554    -96.671565
    .000000    .000000      .000000

COMB DB-G3-1 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    27.775551      0.059814      36.684595
    .000000   40.353054      0.065749
0.25000    27.775551      0.059814      36.684595
    .000000   30.264790      0.049312
0.50000    27.775551      0.059814      36.684595
    .000000   20.176527      0.032842
0.75000    27.775551      0.059814      36.684595
    .000000   10.088263      0.016294
1.00000    27.775551      0.059814      36.684595
    .000000    .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 4975

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000    -4.870324     -0.361122     -6.076250
    .000000   -6.683875     -0.397234
0.25000    -4.870324     -0.361122     -6.076250
    .000000   -5.012906     -0.297926
0.50000    -4.870324     -0.361122     -6.076250
    .000000   -3.341937     -0.198617
0.75000    -4.870324     -0.361122     -6.076250
    .000000   -1.670969     -0.099309
1.00000    -4.870324     -0.361122     -6.076250
    .000000    .000000      .000000

COMB DB-G3-2 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    74.882260      0.756275      45.973086
    .000000   50.570394      0.831848
0.25000    74.882260      0.756275      45.973086
    .000000   37.927796      0.623832
0.50000    74.882260      0.756275      45.973086
    .000000   25.285197      0.415893
0.75000    74.882260      0.756275      45.973086
    .000000   12.642599      0.207804
1.00000    74.882260      0.756275      45.973086
    .000000    .000000      .000000

COMB DB-G3-2 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000   -13.600003     -0.452558     -76.826145
    .000000  -84.508760     -0.497814
0.25000   -13.600003     -0.452558     -76.826145
    .000000  -63.381570     -0.373351
0.50000   -13.600003     -0.452558     -76.826145
    .000000  -42.254380     -0.248876
0.75000   -13.600003     -0.452558     -76.826145
    .000000  -21.127190     -0.124398
1.00000   -13.600003     -0.452558     -76.826145
    .000000    .000000      .000000

COMB DB-G3-3 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    69.090785      0.425586      67.834581
    .000000   74.618039      0.467995
0.25000    69.090785      0.425586      67.834581
    .000000   55.963529      0.350970
0.50000    69.090785      0.425586      67.834581
    .000000   37.309019      0.233888
0.75000    69.090785      0.425586      67.834581
    .000000   18.654510      0.116647
1.00000    69.090785      0.425586      67.834581
    .000000    .000000      .000000

COMB DB-G3-3 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000   -82.385906     -0.667762     -43.233116
    .000000  -47.556428     -0.734538
0.25000   -82.385906     -0.667762     -43.233116
    .000000  -35.667321     -0.550904
0.50000   -82.385906     -0.667762     -43.233116
    .000000  -23.778214     -0.367260
0.75000   -82.385906     -0.667762     -43.233116
    .000000  -11.889107     -0.183611
1.00000   -82.385906     -0.667762     -43.233116
    .000000    .000000      .000000

COMB DB-G3-4 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    75.885843      0.615357     129.162279
    .000000  142.078507      0.676775
0.25000    75.885843      0.615357     129.162279
    .000000  106.558881      0.507560
0.50000    75.885843      0.615357     129.162279
    .000000   71.039254      0.338329
0.75000    75.885843      0.615357     129.162279
    .000000   35.519627      0.168881
1.00000    75.885843      0.615357     129.162279
    .000000    .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 4976

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -305.830384     -1.271470     -62.511069
    .000000  -68.762175     -1.398617
0.25000 -305.830384     -1.271470     -62.511069
    .000000  -51.571632     -1.048963
0.50000 -305.830384     -1.271470     -62.511069
    .000000  -34.381088     -0.699307
0.75000 -305.830384     -1.271470     -62.511069
    .000000  -17.190544     -0.349635
1.00000 -305.830384     -1.271470     -62.511069
    .000000    .000000      .000000

COMB DL-G1-1 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    40.419832      1.486829      33.481073
    .000000   36.829180      1.635154
0.25000    40.419832      1.486829      33.481073
    .000000   27.621885      1.225996
0.50000    40.419832      1.486829      33.481073
    .000000   18.414590      0.817046
0.75000    40.419832      1.486829      33.481073
    .000000    9.207295      0.407551
1.00000    40.419832      1.486829      33.481073
    .000000    .000000      .000000

COMB DL-G1-1 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -589.453744     -0.329587     -151.039468
    .000000 -166.143415     -0.362554
0.25000 -589.453744     -0.329587     -151.039468
    .000000 -124.607561     -0.271843
0.50000 -589.453744     -0.329587     -151.039468
    .000000  -83.071707     -0.181122
0.75000 -589.453744     -0.329587     -151.039468
    .000000  -41.535854     -0.090518
1.00000 -589.453744     -0.329587     -151.039468
    .000000    .000000      .000000

COMB DL-G1-2 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    67.868577      1.699970      123.349279
    .000000  135.684207      1.869492
0.25000    67.868577      1.699970      123.349279
    .000000  101.763155      1.401562
0.50000    67.868577      1.699970      123.349279
    .000000   67.842103      0.933786
0.75000    67.868577      1.699970      123.349279
    .000000   33.921052      0.466503
1.00000    67.868577      1.699970      123.349279
    .000000    .000000      .000000

COMB DL-G1-2 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -807.530712     -1.214247     -172.691414
    .000000 -189.960555     -1.335671
0.25000 -807.530712     -1.214247     -172.691414
    .000000 -142.470417     -1.001595
0.50000 -807.530712     -1.214247     -172.691414
    .000000  -94.980278     -0.667463
0.75000 -807.530712     -1.214247     -172.691414
    .000000  -47.490139     -0.333425
1.00000 -807.530712     -1.214247     -172.691414
    .000000    .000000      .000000

COMB DL-G1-3 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    80.491422      1.617185      109.590229
    .000000  120.549252      1.777830
0.25000    80.491422      1.617185      109.590229
    .000000   90.411939      1.332775
0.50000    80.491422      1.617185      109.590229
    .000000   60.274626      0.887728
0.75000    80.491422      1.617185      109.590229
    .000000   30.137313      0.441521
1.00000    80.491422      1.617185      109.590229
    .000000    .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 4977

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G1-3 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -771.855454     -1.078798    -164.285784
    .000000 -180.714363     -1.186454
0.25000 -771.855454     -1.078798    -164.285784
    .000000 -135.535772     -0.889780
0.50000 -771.855454     -1.078798    -164.285784
    .000000  -90.357181     -0.592556
0.75000 -771.855454     -1.078798    -164.285784
    .000000  -45.178591     -0.295396
1.00000 -771.855454     -1.078798    -164.285784
    .000000    .000000      .000000

COMB DL-G1-4 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    106.067725      1.723107      105.295094
    .000000  115.824604      1.894312
0.25000    106.067725      1.723107      105.295094
    .000000   86.868453      1.420034
0.50000    106.067725      1.723107      105.295094
    .000000   57.912302      0.945682
0.75000    106.067725      1.723107      105.295094
    .000000   28.956151      0.470467
1.00000    106.067725      1.723107      105.295094
    .000000    .000000      .000000

COMB DL-G1-4 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -647.283961     -1.036518    -175.045089
    .000000 -192.549598     -1.139832
0.25000 -647.283961     -1.036518    -175.045089
    .000000 -144.412199     -0.854712
0.50000 -647.283961     -1.036518    -175.045089
    .000000  -96.274799     -0.569140
0.75000 -647.283961     -1.036518    -175.045089
    .000000  -48.137400     -0.283212
1.00000 -647.283961     -1.036518    -175.045089
    .000000    .000000      .000000

COMB DL-G2-1 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    28.045265      0.176050      98.623004
    .000000  108.485304      0.153345
0.25000    28.045265      0.176050      98.623004
    .000000   81.363978      0.144750
0.50000    28.045265      0.176050      98.623004
    .000000   54.242652      0.095942
0.75000    28.045265      0.176050      98.623004
    .000000   27.121326      0.047179
1.00000    28.045265      0.176050      98.623004
    .000000    .000000      .000000

COMB DL-G2-1 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -167.172080     -0.970842     -17.884046
    .000000  -19.672451     -1.067799
0.25000 -167.172080     -0.970842     -17.884046
    .000000  -14.754338     -0.800838
0.50000 -167.172080     -0.970842     -17.884046
    .000000   -9.836226     -0.533733
0.75000 -167.172080     -0.970842     -17.884046
    .000000   -4.918113     -0.266488
1.00000 -167.172080     -0.970842     -17.884046
    .000000    .000000      .000000

COMB DL-G2-2 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    62.925028      0.508937      86.066571
    .000000   94.673228      0.558999
0.25000    62.925028      0.508937      86.066571
    .000000   71.004921      0.418742
0.50000    62.925028      0.508937      86.066571
    .000000   47.336614      0.278989
0.75000    62.925028      0.508937      86.066571
    .000000   23.668307      0.137620
1.00000    62.925028      0.508937      86.066571
    .000000    .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 4978

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-2 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -184.751213     -0.847235     -51.703897
    .000000  -57.874286     -0.931728
0.25000 -184.751213     -0.847235     -51.703897
    .000000  -42.655715     -0.698776
0.50000 -184.751213     -0.847235     -51.703897
    .000000  -28.437143     -0.465328
0.75000 -184.751213     -0.847235     -51.703897
    .000000  -14.218572     -0.231586
1.00000 -184.751213     -0.847235     -51.703897
    .000000    .000000      .000000

COMB DL-G2-3 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    87.995524      1.192544      117.630533
    .000000  129.393587      1.310641
0.25000    87.995924      1.192544      117.630533
    .000000   97.045190      0.982219
0.50000    87.995924      1.192544      117.630533
    .000000   64.696793      0.654010
0.75000    87.995924      1.192544      117.630533
    .000000   32.348397      0.324910
1.00000    87.995924      1.192544      117.630533
    .000000    .000000      .000000

COMB DL-G2-3 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -567.353117     -1.157948     -121.147694
    .000000 -133.262463     -1.273417
0.25000 -567.353117     -1.157948     -121.147694
    .000000  -99.946847     -0.954967
0.50000 -567.353117     -1.157948     -121.147694
    .000000  -66.631232     -0.636141
0.75000 -567.353117     -1.157948     -121.147694
    .000000  -33.315616     -0.316930
1.00000 -567.353117     -1.157948     -121.147694
    .000000    .000000      .000000

COMB DL-G2-4 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    103.244851      1.111967      119.216582
    .000000  131.138241      1.221820
0.25000    103.244851      1.111967      119.216582
    .000000   98.353680      0.915616
0.50000    103.244851      1.111967      119.216582
    .000000   65.569120      0.609330
0.75000    103.244851      1.111967      119.216582
    .000000   32.784560      0.302353
1.00000    103.244851      1.111967      119.216582
    .000000    .000000      .000000

COMB DL-G2-4 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -477.041559     -1.173555     -112.962213
    .000000 -124.256434     -1.290373
0.25000 -477.041559     -1.173555     -112.962213
    .000000  -93.193826     -0.967576
0.50000 -477.041559     -1.173555     -112.962213
    .000000  -62.129217     -0.644506
0.75000 -477.041559     -1.173555     -112.962213
    .000000  -31.064609     -0.320910
1.00000 -477.041559     -1.173555     -112.962213
    .000000    .000000      .000000

COMB DL-G3-1 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    41.770252      0.077791      48.129299
    .000000   52.942229      0.085136
0.25000    41.770252      0.077791      48.129299
    .000000   39.706672      0.063544
0.50000    41.770252      0.077791      48.129299
    .000000   26.471114      0.041734
0.75000    41.770252      0.077791      48.129299
    .000000   13.235557      0.020156
1.00000    41.770252      0.077791      48.129299
    .000000    .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 4979

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-1 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000    -7.776772     -0.473772     -7.904937
    .000000   -8.695430     -0.520777
0.25000    -7.776772     -0.473772     -7.904937
    .000000   -6.521573     -0.390339
0.50000    -7.776772     -0.473772     -7.904937
    .000000   -4.347715     -0.260066
0.75000    -7.776772     -0.473772     -7.904937
    .000000   -2.173858     -0.129575
1.00000    -7.776772     -0.473772     -7.904937
    .000000    .000000      .000000

COMB DL-G3-2 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    91.380260      0.653736      57.985035
    .000000   63.783539      0.718377
0.25000    91.380260      0.653736      57.985035
    .000000   47.837654      0.538119
0.50000    91.380260      0.653736      57.985035
    .000000   31.891769      0.357830
0.75000    91.380260      0.653736      57.985035
    .000000   15.945885      0.177735
1.00000    91.380260      0.653736      57.985035
    .000000    .000000      .000000

COMB DL-G3-2 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000   -17.513505     -0.570776     -66.411051
    .000000  -73.052156     -0.627384
0.25000   -17.513505     -0.570776     -66.411051
    .000000  -54.789117     -0.470189
0.50000   -17.513505     -0.570776     -66.411051
    .000000  -36.526078     -0.312997
0.75000   -17.513505     -0.570776     -66.411051
    .000000  -18.263039     -0.155823
1.00000   -17.513505     -0.570776     -66.411051
    .000000    .000000      .000000

COMB DL-G3-3 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    93.409192      0.479121      85.342829
    .000000   93.877112      0.525653
0.25000    93.409192      0.479121      85.342829
    .000000   70.407834      0.393445
0.50000    93.409192      0.479121      85.342829
    .000000   46.938556      0.261237
0.75000    93.409192      0.479121      85.342829
    .000000   23.469278      0.128577
1.00000    93.409192      0.479121      85.342829
    .000000    .000000      .000000

COMB DL-G3-3 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -107.459308     -0.840080     -48.675561
    .000000  -53.543117     -0.923446
0.25000 -107.459308     -0.840080     -48.675561
    .000000  -40.157338     -0.692400
0.50000 -107.459308     -0.840080     -48.675561
    .000000  -26.771558     -0.460950
0.75000 -107.459308     -0.840080     -48.675561
    .000000  -13.385779     -0.229283
1.00000 -107.459308     -0.840080     -48.675561
    .000000    .000000      .000000

COMB DL-G3-4 ------------------- MAX

REL DIST         P              V2             V3
       T         M2             M3
0.00000    102.621039      0.780079      139.938558
    .000000  153.932414      0.856801
0.25000    102.621039      0.780079      139.938558
    .000000  115.449310      0.641738
0.50000    102.621039      0.780079      139.938558
    .000000   76.966207      0.426668
0.75000    102.621039      0.780079      139.938558
    .000000   38.483103      0.210989
1.00000    102.621039      0.780079      139.938558
    .000000    .000000      .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                        Page
<               MOVING          LOAD              >
                                 4980

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-4 ------------------- MIN

REL DIST         P              V2             V3
       T         M2             M3
0.00000 -352.730272     -1.377533     -79.247781
    .000000  -87.172559     -1.514723
0.25000 -352.730272     -1.377533     -79.247781
    .000000  -65.379420     -1.135854
0.50000 -352.730272     -1.377533     -79.247781
    .000000  -43.586280     -0.756900
0.75000 -352.730272     -1.377533     -79.247781
    .000000  -21.793140     -0.377183
1.00000 -352.730272     -1.377533     -79.247781
    .000000    .000000      .000000

COMB       DB ------------------- MAX
```

REL DIST P V2 V3
T M2 M3
0.00000 84.891819 1.389917 129.162279
.000000 142.078507 1.528829
0.25000 84.891819 1.389917 129.162279
.000000 106.558881 1.146627
0.50000 84.891819 1.389917 129.162279
.000000 71.039254 0.764384
0.75000 84.891819 1.389917 129.162279
.000000 35.519627 0.382027
1.00000 84.891819 1.389917 129.162279
.000000 .000000 .000000

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -736.085310 -1.271470 -141.194720
.000000 -155.314192 -1.398617
0.25000 -736.085310 -1.271470 -141.194720
.000000 -116.485644 -1.048963
0.50000 -736.085310 -1.271470 -141.194720
.000000 -77.657096 -0.699307
0.75000 -736.085310 -1.271470 -141.194720
.000000 -38.828548 -0.349635
1.00000 -736.085310 -1.271470 -141.194720
.000000 .000000 .000000

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 106.067725 1.723107 139.938558
.000000 153.932414 1.894312
0.25000 106.067725 1.723107 139.938558
.000000 115.449310 1.420034
0.50000 106.067725 1.723107 139.938558
.000000 76.966207 0.945682
0.75000 106.067725 1.723107 139.938558
.000000 38.483103 0.470467
1.00000 106.067725 1.723107 139.938558
.000000 .000000 .000000

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -807.530712 -1.377533 -175.045089
.000000 -192.549598 -1.514723
0.25000 -807.530712 -1.377533 -175.045089
.000000 -144.412199 -1.135854
0.50000 -807.530712 -1.377533 -175.045089
.000000 -96.274799 -0.756600
0.75000 -807.530712 -1.377533 -175.045089
.000000 -48.137400 -0.377183
1.00000 -807.530712 -1.377533 -175.045089
.000000 .000000 .000000

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 106.067725 1.723107 139.938558
.000000 153.932414 1.894312
0.25000 106.067725 1.723107 139.938558
.000000 115.449310 1.420034
0.50000 106.067725 1.723107 139.938558
.000000 76.966207 0.945682
0.75000 106.067725 1.723107 139.938558
.000000 38.483103 0.470467
1.00000 106.067725 1.723107 139.938558
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4981

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -807.530712 -1.377533 -175.045089
.000000 -192.549598 -1.514723
0.25000 -807.530712 -1.377533 -175.045089
.000000 -144.412199 -1.135854
0.50000 -807.530712 -1.377533 -175.045089
.000000 -96.274799 -0.756600
0.75000 -807.530712 -1.377533 -175.045089
.000000 -48.137400 -0.377183
1.00000 -807.530712 -1.377533 -175.045089
.000000 .000000 .000000

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 106.067725 1.723107 139.938558
.000000 153.932414 1.894312
0.25000 106.067725 1.723107 139.938558
.000000 115.449310 1.420034
0.50000 106.067725 1.723107 139.938558
.000000 76.966207 0.945682
0.75000 106.067725 1.723107 139.938558
.000000 38.483103 0.470467
1.00000 106.067725 1.723107 139.938558
.000000 .000000 .000000

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -807.530712 -1.377533 -175.045089
.000000 -192.549598 -1.514723
0.25000 -807.530712 -1.377533 -175.045089
.000000 -144.412199 -1.135854
0.50000 -807.530712 -1.377533 -175.045089
.000000 -96.274799 -0.756600
0.75000 -807.530712 -1.377533 -175.045089
.000000 -48.137400 -0.377183
1.00000 -807.530712 -1.377533 -175.045089
.000000 .000000 .000000

ELEM 488 ========== LENGTH = 1.100000

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 23.133723 6.024164 77.250971
.000000 84.976069 6.626581
0.25000 23.133723 6.024164 77.250971
.000000 63.732051 4.969936
0.50000 23.133723 6.024164 77.250971
.000000 42.488034 3.313290
0.75000 23.133723 6.024164 77.250971
.000000 21.244017 1.656645
1.00000 23.133723 6.024164 77.250971
.000000 .000000 .000000

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -49.133360 -0.963079 -12.350060
.000000 -13.585066 -1.059387
0.25000 -49.133360 -0.963079 -12.350060
.000000 -10.188800 -0.794540
0.50000 -49.133360 -0.963079 -12.350060
.000000 -6.792533 -0.529693
0.75000 -49.133360 -0.963079 -12.350060
.000000 -3.396267 -0.264847
1.00000 -49.133360 -0.963079 -12.350060
.000000 .000000 .000000

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 38.759597 6.304691 80.848313
.000000 88.933144 6.935160
0.25000 38.759597 6.304691 80.848313
.000000 66.699858 5.201370
0.50000 38.759597 6.304691 80.848313
.000000 44.466572 3.467580
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4982

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 38.759597 6.304691 80.848313
.000000 22.233286 1.733790
1.00000 38.759597 6.304691 80.848313
.000000 .000000 .000000

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -302.773983 -8.046861 -103.189056
.000000 -113.507961 -8.851547
0.25000 -302.773983 -8.046861 -103.189056
.000000 -85.130971 -6.638660
0.50000 -302.773983 -8.046861 -103.189056
.000000 -56.753981 -4.425774
0.75000 -302.773983 -8.046861 -103.189056
.000000 -28.376990 -2.212887
1.00000 -302.773983 -8.046861 -103.189056
.000000 .000000 .000000

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 51.614268 5.791900 74.272528
.000000 81.699781 6.371090
0.25000 51.614268 5.791900 74.272528
.000000 61.274835 4.778318
0.50000 51.614268 5.791900 74.272528
.000000 40.849890 3.185545
0.75000 51.614268 5.791900 74.272528
.000000 20.424945 1.592773
1.00000 51.614268 5.791900 74.272528
.000000 .000000 .000000

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -675.893026 -6.057806 -77.682374
.000000 -85.450612 -6.663587
0.25000 -675.893026 -6.057806 -77.682374
.000000 -64.087959 -4.997690
0.50000 -675.893026 -6.057806 -77.682374
.000000 -42.725306 -3.331793
0.75000 -675.893026 -6.057806 -77.682374
.000000 -21.362653 -1.665897
1.00000 -675.893026 -6.057806 -77.682374
.000000 .000000 .000000

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 56.372159 8.665605 111.123531
.000000 122.235884 9.532166
0.25000 56.372159 8.665605 111.123531
.000000 91.676913 7.149124
0.50000 56.372159 8.665605 111.123531
.000000 61.117942 4.766083
0.75000 56.372159 8.665605 111.123531
.000000 30.558971 2.383040
1.00000 56.372159 8.665605 111.123531
.000000 .000000 .000000

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -730.484790 -5.524651 -70.845454
.000000 -77.930000 -6.077116
0.25000 -730.484790 -5.524651 -70.845454
.000000 -58.447500 -4.557837
0.50000 -730.484790 -5.524651 -70.845454
.000000 -38.965000 -3.038558
0.75000 -730.484790 -5.524651 -70.845454
.000000 -19.482500 -1.519279
1.00000 -730.484790 -5.524651 -70.845454
.000000 .000000 .000000

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 19.747311 0.323055 4.142696
.000000 4.556966 0.355360
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4983

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 19.747311 0.323055 4.142696
.000000 3.417725 0.266520
0.50000 19.747311 0.323055 4.142696
.000000 2.278483 0.177680
0.75000 19.747311 0.323055 4.142696
.000000 1.139242 0.088840
1.00000 19.747311 0.323055 4.142696
.000000 .000000 .000000

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -392.538596 -8.091025 -103.755388
.000000 -114.130927 -8.900157
0.25000 -392.538596 -8.091025 -103.755388
.000000 -85.598195 -6.675095
0.50000 -392.538596 -8.091025 -103.755388
.000000 -57.065464 -4.450064
0.75000 -392.538596 -8.091025 -103.755388
.000000 -28.532732 -2.225057
1.00000 -392.538596 -8.091025 -103.755388
.000000 .000000 .000000

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 37.518000 3.334146 42.755477
.000000 47.031025 3.667561
0.25000 37.518000 3.334146 42.755477
.000000 35.273269 2.750671
0.50000 37.518000 3.334146 42.755477
.000000 23.515512 1.833780
0.75000 37.518000 3.334146 42.755477
.000000 11.757756 0.916890
1.00000 37.518000 3.334146 42.755477
.000000 .000000 .000000

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -803.430466 -6.112794 -78.387519
.000000 -86.226271 -6.724074
0.25000 -803.430466 -6.112794 -78.387519
.000000 -64.669703 -5.043055
0.50000 -803.430466 -6.112794 -78.387519
.000000 -43.113136 -3.362037
0.75000 -803.430466 -6.112794 -78.387519
.000000 -21.556568 -1.681018
1.00000 -803.430466 -6.112794 -78.387519
.000000 .000000 .000000

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 51.032811 5.570757 71.436697
.000000 78.580367 6.127833
0.25000 51.032811 5.570757 71.436697
.000000 58.935275 4.595875
0.50000 51.032811 5.570757 71.436697
.000000 39.290183 3.063916
0.75000 51.032811 5.570757 71.436697
.000000 19.645092 1.531956
1.00000 51.032811 5.570757 71.436697
.000000 .000000 .000000

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -799.323158 -7.419417 -95.143014
.000000 -104.615515 -8.194358
0.25000 -799.323158 -7.419417 -95.143014
.000000 -78.492986 -6.121019
0.50000 -799.323158 -7.419417 -95.143014
.000000 -52.328658 -4.080679
0.75000 -799.323158 -7.419417 -95.143014
.000000 -26.164329 -2.040340
1.00000 -799.323158 -7.419417 -95.143014
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4984

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 56.075912 5.746474 73.690003
.000000 81.059003 6.321121
0.25000 56.075912 5.746474 73.690003
.000000 60.794252 4.740841
0.50000 56.075912 5.746474 73.690003
.000000 40.529501 3.160558
0.75000 56.075912 5.746474 73.690003
.000000 20.264751 1.580278
1.00000 56.075912 5.746474 73.690003
.000000 .000000 .000000

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -731.306027 -6.948964 -89.110151
.000000 -98.021167 -7.643860
0.25000 -731.306027 -6.948964 -89.110151
.000000 -73.515875 -5.732895
0.50000 -731.306027 -6.948964 -89.110151
.000000 -49.010583 -3.821930
0.75000 -731.306027 -6.948964 -89.110151
.000000 -24.505292 -1.910965
1.00000 -731.306027 -6.948964 -89.110151
.000000 .000000 .000000

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 20.899979 0.604732 7.754785
.000000 8.530263 0.665205
0.25000 20.899979 0.604732 7.754785
.000000 6.397697 0.498904
0.50000 20.899979 0.604732 7.754785
.000000 4.265132 0.332602
0.75000 20.899979 0.604732 7.754785
.000000 2.132566 0.166291
1.00000 20.899979 0.604732 7.754785
.000000 .000000 .000000

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -49.155527 -1.710946 -21.940350
.000000 -24.134386 -1.882041
0.25000 -49.155527 -1.710946 -21.940350
.000000 -18.100789 -1.411531
0.50000 -49.155527 -1.710946 -21.940350
.000000 -12.067193 -0.941021
0.75000 -49.155527 -1.710946 -21.940350
.000000 -6.033596 -0.470510
1.00000 -49.155527 -1.710946 -21.940350
.000000 .000000 .000000

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 36.674953 5.859593 75.140581
.000000 82.654639 6.445552
0.25000 36.674953 5.859593 75.140581
.000000 61.990979 4.834164
0.50000 36.674953 5.859593 75.140581
.000000 41.327320 3.222757
0.75000 36.674953 5.859593 75.140581
.000000 20.663660 1.611378
1.00000 36.674953 5.859593 75.140581
.000000 .000000 .000000

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -348.429499 -2.159595 -27.693602
.000000 -30.462962 -2.375554
0.25000 -348.429499 -2.159595 -27.693602
.000000 -22.847222 -1.781666
0.50000 -348.429499 -2.159595 -27.693602
.000000 -15.231481 -1.187777
0.75000 -348.429499 -2.159595 -27.693602
.000000 -7.615741 -0.593889
1.00000 -348.429499 -2.159595 -27.693602
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4985

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 49.793734 3.135482 40.207910
.000000 44.228701 3.449031
0.25000 49.793734 3.135482 40.207910
.000000 33.171526 2.586773
0.50000 49.793734 3.135482 40.207910
.000000 22.114351 1.724498
0.75000 49.793734 3.135482 40.207910
.000000 11.057175 0.862249
1.00000 49.793734 3.135482 40.207910
.000000 .000000 .000000

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -693.914586 -3.798236 -48.706741
.000000 -53.577415 -4.178060
0.25000 -693.914586 -3.798236 -48.706741
.000000 -40.183061 -3.133545
0.50000 -693.914586 -3.798236 -48.706741
.000000 -26.788708 -2.089030
0.75000 -693.914586 -3.798236 -48.706741
.000000 -13.394354 -1.044515
1.00000 -693.914586 -3.798236 -48.706741
.000000 .000000 .000000

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 55.915684 3.667552 47.030920
.000000 51.734012 4.034308
0.25000 55.915684 3.667552 47.030920
.000000 38.800509 3.025731
0.50000 55.915684 3.667552 47.030920
.000000 25.867006 2.017140
0.75000 55.915684 3.667552 47.030920
.000000 12.933503 1.008570
1.00000 55.915684 3.667552 47.030920
.000000 .000000 .000000

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -713.000430 -8.671600 -111.200408
.000000 -122.320449 -9.538760
0.25000 -713.000430 -8.671600 -111.200408
.000000 -91.740336 -7.154070
0.50000 -713.000430 -8.671600 -111.200408
.000000 -61.160224 -4.769380
0.75000 -713.000430 -8.671600 -111.200408
.000000 -30.580112 -2.384690
1.00000 -713.000430 -8.671600 -111.200408
.000000 .000000 .000000

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 41.420443 7.847860 100.637158
.000000 110.700874 8.632646
0.25000 41.420443 7.847860 100.637158
.000000 83.025656 6.474484
0.50000 41.420443 7.847860 100.637158
.000000 55.350437 4.316323
0.75000 41.420443 7.847860 100.637158
.000000 27.675219 2.158224
1.00000 41.420443 7.847860 100.637158
.000000 .000000 .000000

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -56.562669 -1.444256 -18.520437
.000000 -20.372481 -1.588681
0.25000 -56.562669 -1.444256 -18.520437
.000000 -15.279361 -1.191511
0.50000 -56.562669 -1.444256 -18.520437
.000000 -10.186241 -0.794341
0.75000 -56.562669 -1.444256 -18.520437
.000000 -5.093120 -0.397195
1.00000 -56.562669 -1.444256 -18.520437
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4986

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 52.650672 8.110829 104.009355
.000000 114.410290 8.921912
0.25000 52.650672 8.110829 104.009355
.000000 85.807718 6.691434
0.50000 52.650672 8.110829 104.009355
.000000 57.205145 4.460956
0.75000 52.650672 8.110829 104.009355
.000000 28.602573 2.230669
1.00000 52.650672 8.110829 104.009355
.000000 .000000 .000000

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -311.144526 -7.852286 -100.693922
.000000 -110.763314 -8.637515
0.25000 -311.144526 -7.852286 -100.693922
.000000 -83.072486 -6.478136
0.50000 -311.144526 -7.852286 -100.693922
.000000 -55.381657 -4.318757
0.75000 -311.144526 -7.852286 -100.693922
.000000 -27.690829 -2.159971
1.00000 -311.144526 -7.852286 -100.693922
.000000 .000000 .000000

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 71.401120 7.837139 100.499679
.000000 110.549647 8.620848
0.25000 71.401120 7.837139 100.499679
.000000 82.912235 6.465623
0.50000 71.401120 7.837139 100.499679
.000000 55.274824 4.310291
0.75000 71.401120 7.837139 100.499679
.000000 27.637412 2.155310
1.00000 71.401120 7.837139 100.499679
.000000 .000000 .000000

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -667.031703 -6.735351 -86.370882
.000000 -95.007970 -7.408754
0.25000 -667.031703 -6.735351 -86.370882
.000000 -71.255978 -5.556452
0.50000 -667.031703 -6.735351 -86.370882
.000000 -47.503985 -3.704032
0.75000 -667.031703 -6.735351 -86.370882
.000000 -23.751993 -1.851134
1.00000 -667.031703 -6.735351 -86.370882
.000000 .000000 .000000

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 76.960337 9.481058 121.580507
.000000 133.738558 10.429158
0.25000 76.960337 9.481058 121.580507
.000000 100.303919 7.821855
0.50000 76.960337 9.481058 121.580507
.000000 66.869279 5.214470
0.75000 76.960337 9.481058 121.580507
.000000 33.434640 2.607228
1.00000 76.960337 9.481058 121.580507
.000000 .000000 .000000

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -716.658269 -6.200289 -79.509503
.000000 -87.460454 -6.820211
0.25000 -716.658269 -6.200289 -79.509503
.000000 -65.595340 -5.115079
0.50000 -716.658269 -6.200289 -79.509503
.000000 -43.730227 -3.409824
0.75000 -716.658269 -6.200289 -79.509503
.000000 -21.865113 -1.704557
1.00000 -716.658269 -6.200289 -79.509503
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4987

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	27.038198	0.433114	5.554040
.000000	6.109444	0.476425	
0.25000	27.038198	0.433114	5.554040
.000000	4.582083	0.357319	
0.50000	27.038198	0.433114	5.554040
.000000	3.054722	0.238213	
0.75000	27.038198	0.433114	5.554040
.000000	1.527361	0.118907	
1.00000	27.038198	0.433114	5.554040
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-371.662792	-7.154137	-91.741195
.000000	-100.917314	-7.869551	
0.25000	-371.662792	-7.154137	-91.741195
.000000	-75.686486	-5.902163	
0.50000	-371.662792	-7.154137	-91.741195
.000000	-50.457657	-3.934775	
0.75000	-371.662792	-7.154137	-91.741195
.000000	-25.228829	-1.967309	
1.00000	-371.662792	-7.154137	-91.741195
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	51.978791	2.937681	37.671395
.000000	41.438535	3.231462	
0.25000	51.978791	2.937681	37.671395
.000000	31.078901	2.423579	
0.50000	51.978791	2.937681	37.671395
.000000	20.719267	1.615611	
0.75000	51.978791	2.937681	37.671395
.000000	10.359634	0.807828	
1.00000	51.978791	2.937681	37.671395
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-762.884615	-5.893691	-75.577845
.000000	-83.135629	-6.482981	
0.25000	-762.884615	-5.893691	-75.577845
.000000	-62.351722	-4.862121	
0.50000	-762.884615	-5.893691	-75.577845
.000000	-41.567815	-3.241078	
0.75000	-762.884615	-5.893691	-75.577845
.000000	-20.783907	-1.620083	
1.00000	-762.884615	-5.893691	-75.577845
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	69.781607	5.715382	73.291295
.000000	80.620424	6.286918	
0.25000	69.781607	5.715382	73.291295
.000000	60.465318	4.715185	
0.50000	69.781607	5.715382	73.291295
.000000	40.310212	3.143361	
0.75000	69.781607	5.715382	73.291295
.000000	20.155106	1.571877	
1.00000	69.781607	5.715382	73.291295
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-780.246211	-7.638006	-97.946102
.000000	-107.740712	-8.401727	
0.25000	-780.246211	-7.638006	-97.946102
.000000	-80.805534	-6.301188	
0.50000	-780.246211	-7.638006	-97.946102
.000000	-53.870356	-4.200490	
0.75000	-780.246211	-7.638006	-97.946102
.000000	-26.935178	-2.099844	
1.00000	-780.246211	-7.638006	-97.946102
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4988

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	76.520110	5.801216	74.391995
.000000	81.831194	6.381348	
0.25000	76.520110	5.801216	74.391995
.000000	61.373396	4.786044	
0.50000	76.520110	5.801216	74.391995
.000000	40.915597	3.190547	
0.75000	76.520110	5.801216	74.391995
.000000	20.457799	1.595167	
1.00000	76.520110	5.801216	74.391995
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-727.368558	-7.271061	-93.240565
.000000	-102.564622	-7.998106	
0.25000	-727.368558	-7.271061	-93.240565
.000000	-76.923466	-5.998345	
0.50000	-727.368558	-7.271061	-93.240565
.000000	-51.282311	-3.998525	
0.75000	-727.368558	-7.271061	-93.240565
.000000	-25.641155	-1.998707	
1.00000	-727.368558	-7.271061	-93.240565
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	34.307160	0.830302	10.647390
.000000	11.712129	0.913262	
0.25000	34.307160	0.830302	10.647390
.000000	8.784096	0.684942	
0.50000	34.307160	0.830302	10.647390
.000000	5.856064	0.456502	
0.75000	34.307160	0.830302	10.647390
.000000	2.928032	0.227906	
1.00000	34.307160	0.830302	10.647390
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-57.407898	-2.282969	-29.275692
.000000	-32.203261	-2.511122	
0.25000	-57.407898	-2.282969	-29.275692
.000000	-24.152446	-1.883130	
0.50000	-57.407898	-2.282969	-29.275692
.000000	-16.101630	-1.255310	
0.75000	-57.407898	-2.282969	-29.275692
.000000	-8.050815	-0.627181	
1.00000	-57.407898	-2.282969	-29.275692
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	50.249402	5.272549	67.612614
.000000	74.373876	5.799745	
0.25000	50.249402	5.272549	67.612614
.000000	55.780407	4.349798	
0.50000	50.249402	5.272549	67.612614
.000000	37.186938	2.899682	
0.75000	50.249402	5.272549	67.612614
.000000	18.593469	1.449444	
1.00000	50.249402	5.272549	67.612614
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-348.391799	-2.664780	-34.171854
.000000	-37.589040	-2.931191	
0.25000	-348.391799	-2.664780	-34.171854
.000000	-28.191780	-2.198408	
0.50000	-348.391799	-2.664780	-34.171854
.000000	-18.794520	-1.465207	
0.75000	-348.391799	-2.664780	-34.171854
.000000	-9.397260	-0.732142	
1.00000	-348.391799	-2.664780	-34.171854
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4989

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	68.795368	3.464436	44.426251
.000000	48.868877	3.810818	
0.25000	68.795368	3.464436	44.426251
.000000	36.651657	2.858079	
0.50000	68.795368	3.464436	44.426251
.000000	24.434438	1.905120	
0.75000	68.795368	3.464436	44.426251
.000000	12.217219	0.952124	
1.00000	68.795368	3.464436	44.426251
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-673.138843	-4.671836	-59.909369
.000000	-65.900306	-5.138916	
0.25000	-673.138843	-4.671836	-59.909369
.000000	-49.425229	-3.853766	
0.50000	-673.138843	-4.671836	-59.909369
.000000	-32.950153	-2.568716	
0.75000	-673.138843	-4.671836	-59.909369
.000000	-16.475076	-1.283521	
1.00000	-673.138843	-4.671836	-59.909369
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	76.600793	4.141110	53.103590
.000000	58.413949	4.555168	
0.25000	76.600793	4.141110	53.103590
.000000	43.810462	3.416354	
0.50000	76.600793	4.141110	53.103590
.000000	29.206975	2.277347	
0.75000	76.600793	4.141110	53.103590
.000000	14.603487	1.138314	
1.00000	76.600793	4.141110	53.103590
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-704.547533	-8.645207	-110.861953
.000000	-121.948149	-9.509620	
0.25000	-704.547533	-8.645207	-110.861953
.000000	-91.461111	-7.131877	
0.50000	-704.547533	-8.645207	-110.861953
.000000	-60.974074	-4.754207	
0.75000	-704.547533	-8.645207	-110.861953
.000000	-30.487037	-2.376367	
1.00000	-704.547533	-8.645207	-110.861953
.000000	.000000	.000000	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	56.372159	8.665605	111.123531
.000000	122.235884	9.552166	
0.25000	56.372159	8.665605	111.123531
.000000	91.676913	7.149124	
0.50000	56.372159	8.665605	111.123531
.000000	61.117942	4.766083	
0.75000	56.372159	8.665605	111.123531
.000000	30.558971	2.383040	
1.00000	56.372159	8.665605	111.123531
.000000	.000000	.000000	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-803.430466	-8.671600	-111.200408
.000000	-122.320449	-9.538760	
0.25000	-803.430466	-8.671600	-111.200408
.000000	-91.740336	-7.154070	
0.50000	-803.430466	-8.671600	-111.200408
.000000	-61.160224	-4.769380	
0.75000	-803.430466	-8.671600	-111.200408
.000000	-30.580112	-2.384690	
1.00000	-803.430466	-8.671600	-111.200408
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4990

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	76.960337	9.481058	121.580507
.000000	133.738558	10.429158	
0.25000	76.960337	9.481058	121.580507
.000000	100.303919	7.821855	
0.50000	76.960337	9.481058	121.580507
.000000	66.869279	5.214470	
0.75000	76.960337	9.481058	121.580507
.000000	33.434640	2.607228	
1.00000	76.960337	9.481058	121.580507
.000000	.000000	.000000	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-780.246211	-8.645207	-110.861953
.000000	-121.948149	-9.509620	
0.25000	-780.246211	-8.645207	-110.861953
.000000	-91.461111	-7.131877	
0.50000	-780.246211	-8.645207	-110.861953
.000000	-60.974074	-4.754207	
0.75000	-780.246211	-8.645207	-110.861953
.000000	-30.487037	-2.376367	
1.00000	-780.246211	-8.645207	-110.861953
.000000	.000000	.000000	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	76.960337	9.481058	121.580507
.000000	133.738558	10.429158	
0.25000	76.960337	9.481058	121.580507
.000000	100.303919	7.821855	
0.50000	76.960337	9.481058	121.580507
.000000	66.869279	5.214470	
0.75000	76.960337	9.481058	121.580507
.000000	33.434640	2.607228	
1.00000	76.960337	9.481058	121.580507
.000000	.000000	.000000	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-803.430466	-8.671600	-111.200408
.000000	-122.320449	-9.538760	
0.25000	-803.430466	-8.671600	-111.200408
.000000	-91.740336	-7.154070	
0.50000	-803.430466	-8.671600	-111.200408
.000000	-61.160224	-4.769380	
0.75000	-803.430466	-8.671600	-111.200408
.000000	-30.580112	-2.384690	
1.00000	-803.430466	-8.671600	-111.200408
.000000	.000000	.000000	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	76.960337	9.481058	121.580507
.000000	133.738558	10.429158	
0.25000	76.960337	9.481058	121.580507
.000000	100.303919	7.821855	
0.50000	76.960337	9.481058	121.580507
.000000	66.869279	5.214470	
0.75000	76.960337	9.481058	121.580507
.000000	33.434640	2.607228	
1.00000	76.960337	9.481058	121.580507
.000000	.000000	.000000	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-803.430466	-8.671600	-111.200408
.000000	-122.320449	-9.538760	
0.25000	-803.430466	-8.671600	-111.200408
.000000	-91.740336	-7.154070	
0.50000	-803.430466	-8.671600	-111.200408
.000000	-61.160224	-4.769380	
0.75000	-803.430466	-8.671600	-111.200408
.000000	-30.580112	-2.384690	
1.00000	-803.430466	-8.671600	-111.200408
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4991

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 489 ========== LENGTH = 1.200000

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	38.676319	2.700554	48.546186
.000000	58.255424	3.240665	
0.25000	38.676319	2.700554	48.546186
.000000	43.691568	2.430499	
0.50000	38.676319	2.700554	48.546186
.000000	29.127712	1.620333	
0.75000	38.676319	2.700554	48.546186
.000000	14.563856	0.810166	
1.00000	38.676319	2.700554	48.546186
.000000	.000000	.000000	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-80.712857	-0.536375	-9.642078
.000000	-11.570493	-0.643650	
0.25000	-80.712857	-0.536375	-9.642078
.000000	-8.677870	-0.482737	
0.50000	-80.712857	-0.536375	-9.642078
.000000	-5.785247	-0.321825	
0.75000	-80.712857	-0.536375	-9.642078
.000000	-2.892623	-0.160900	
1.00000	-80.712857	-0.536375	-9.642078
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	58.254358	2.560796	46.033831
.000000	55.240598	3.072955	
0.25000	58.254358	2.560796	46.033831
.000000	41.430448	2.304716	
0.50000	58.254358	2.560796	46.033831
.000000	27.620299	1.536477	
0.75000	58.254358	2.560796	46.033831
.000000	13.810149	0.768239	
1.00000	58.254358	2.560796	46.033831
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-361.632606	-6.953489	-124.998548
.000000	-149.998258	-8.344187	
0.25000	-361.632606	-6.953489	-124.998548
.000000	-112.498694	-6.258140	
0.50000	-361.632606	-6.953489	-124.998548
.000000	-74.999129	-4.172093	
0.75000	-361.632606	-6.953489	-124.998548
.000000	-37.499565	-2.086031	
1.00000	-361.632606	-6.953489	-124.998548
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	76.841065	2.289846	41.163145
.000000	49.395774	2.747816	
0.25000	76.841065	2.289846	41.163145
.000000	37.046830	2.060862	
0.50000	76.841065	2.289846	41.163145
.000000	24.697887	1.373908	
0.75000	76.841065	2.289846	41.163145
.000000	12.348943	0.686954	
1.00000	76.841065	2.289846	41.163145
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-790.772532	-5.060138	-90.962960
.000000	-109.155552	-6.072166	
0.25000	-790.772532	-5.060138	-90.962960
.000000	-81.866664	-4.554125	
0.50000	-790.772532	-5.060138	-90.962960
.000000	-54.577776	-3.036083	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4992

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-790.772532	-5.060138	-90.962960
.000000	-27.288888	-1.518021	
1.00000	-790.772532	-5.060138	-90.962960
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	82.893927	5.355144	96.266102
.000000	115.519322	6.426171	
0.25000	82.893927	5.355144	96.266102
.000000	86.639491	4.819628	
0.50000	82.893927	5.355144	96.266102
.000000	57.759661	3.213031	
0.75000	82.893927	5.355144	96.266102
.000000	28.879830	1.606475	
1.00000	82.893927	5.355144	96.266102
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-846.110924	-4.697160	-84.437927
.000000	-101.325512	-5.636592	
0.25000	-846.110924	-4.697160	-84.437927
.000000	-75.994134	-4.227444	
0.50000	-846.110924	-4.697160	-84.437927
.000000	-50.662756	-2.818294	
0.75000	-846.110924	-4.697160	-84.437927
.000000	-25.331378	-1.409135	
1.00000	-846.110924	-4.697160	-84.437927
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	29.141978	0.042408	0.762350
.000000	0.914820	0.050890	
0.25000	29.141978	0.042408	0.762350
.000000	0.686115	0.038168	
0.50000	29.141978	0.042408	0.762350
.000000	0.457410	0.025445	
0.75000	29.141978	0.042408	0.762350
.000000	0.228705	0.012723	
1.00000	29.141978	0.042408	0.762350
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-439.285977	-7.199014	-129.412199
.000000	-155.294639	-8.638817	
0.25000	-439.285977	-7.199014	-129.412199
.000000	-116.470979	-6.479113	
0.50000	-439.285977	-7.199014	-129.412199
.000000	-77.647319	-4.319408	
0.75000	-439.285977	-7.199014	-129.412199
.000000	-38.823660	-2.159696	
1.00000	-439.285977	-7.199014	-129.412199
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	54.859092	2.788634	50.129543
.000000	60.155452	3.346358	
0.25000	54.859092	2.788634	50.129543
.000000	45.116589	2.509769	
0.50000	54.859092	2.788634	50.129543
.000000	30.077726	1.673110	
0.75000	54.859092	2.788634	50.129543
.000000	15.038863	0.836507	
1.00000	54.859092	2.788634	50.129543
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-912.649249	-5.506725	-98.990965
.000000	-118.789158	-6.608070	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4993

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-912.649249	-5.506725	-98.990965
.000000	-89.091869	-4.956052	
0.50000	-912.649249	-5.506725	-98.990965
.000000	-59.394579	-3.304035	
0.75000	-912.649249	-5.506725	-98.990965
.000000	-29.697290	-1.652017	
1.00000	-912.649249	-5.506725	-98.990965
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	75.413818	3.477560	62.513931
.000000	75.016717	4.173069	
0.25000	75.413818	3.477560	62.513931
.000000	56.262538	3.129802	
0.50000	75.413818	3.477560	62.513931
.000000	37.508358	2.086052	
0.75000	75.413818	3.477560	62.513931
.000000	18.754179	1.043169	
1.00000	75.413818	3.477560	62.513931
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-918.171891	-7.449248	-133.910506
.000000	-160.692607	-8.939098	
0.25000	-918.171891	-7.449248	-133.910506
.000000	-120.519455	-6.704324	
0.50000	-918.171891	-7.449248	-133.910506
.000000	-80.346304	-4.469549	
0.75000	-918.171891	-7.449248	-133.910506
.000000	-40.173152	-2.234775	
1.00000	-918.171891	-7.449248	-133.910506
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	81.657968	3.848012	69.173322
.000000	83.007987	4.617612	
0.25000	81.657968	3.848012	69.173322
.000000	62.255990	3.463209	
0.50000	81.657968	3.848012	69.173322
.000000	41.503993	2.308753	
0.75000	81.657968	3.848012	69.173322
.000000	20.751997	1.154340	
1.00000	81.657968	3.848012	69.173322
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-841.468688	-6.870170	-123.500766
.000000	-148.209919	-8.244204	
0.25000	-841.468688	-6.870170	-123.500766
.000000	-111.156689	-6.183153	
0.50000	-841.468688	-6.870170	-123.500766
.000000	-74.100460	-4.122102	
0.75000	-841.468688	-6.870170	-123.500766
.000000	-37.050230	-2.061051	
1.00000	-841.468688	-6.870170	-123.500766
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	28.754617	0.531064	9.546614
.000000	11.455937	0.637277	
0.25000	28.754617	0.531064	9.546614
.000000	8.591953	0.477958	
0.50000	28.754617	0.531064	9.546614
.000000	5.727969	0.318639	
0.75000	28.754617	0.531064	9.546614

.000000 2.863984 0.159305
1.00000 28.754617 0.531064 9.546614
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4994

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-73.917497	-1.315267	-23.643732
.000000	-28.372479	-1.578320	
0.25000	-73.917497	-1.315267	-23.643732
.000000	-21.279359	-1.183740	
0.50000	-73.917497	-1.315267	-23.643732
.000000	-14.186239	-0.789160	
0.75000	-73.917497	-1.315267	-23.643732
.000000	-7.093120	-0.394580	
1.00000	-73.917497	-1.315267	-23.643732
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	51.378449	5.530039	99.410067
.000000	119.292080	6.636046	
0.25000	51.378449	5.530039	99.410067
.000000	89.469060	4.977035	
0.50000	51.378449	5.530039	99.410067
.000000	59.646040	3.318023	
0.75000	51.378449	5.530039	99.410067
.000000	29.823020	1.658988	
1.00000	51.378449	5.530039	99.410067
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-416.533693	-1.842888	-33.128450
.000000	-39.754140	-2.211466	
0.25000	-416.533693	-1.842888	-33.128450
.000000	-29.815605	-1.658599	
0.50000	-416.533693	-1.842888	-33.128450
.000000	-19.877070	-1.105733	
0.75000	-416.533693	-1.842888	-33.128450
.000000	-9.938535	-0.552866	
1.00000	-416.533693	-1.842888	-33.128450
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	70.891759	2.674156	48.071631
.000000	57.685957	3.208987	
0.25000	70.891759	2.674156	48.071631
.000000	43.264468	2.406670	
0.50000	70.891759	2.674156	48.071631
.000000	28.842978	1.604447	
0.75000	70.891759	2.674156	48.071631
.000000	14.421489	0.802161	
1.00000	70.891759	2.674156	48.071631
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-808.398823	-3.104700	-55.811268
.000000	-66.973522	-3.725640	
0.25000	-808.398823	-3.104700	-55.811268
.000000	-50.230141	-2.794230	
0.50000	-808.398823	-3.104700	-55.811268
.000000	-33.486761	-1.862820	
0.75000	-808.398823	-3.104700	-55.811268
.000000	-16.743380	-0.931410	
1.00000	-808.398823	-3.104700	-55.811268
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	80.682418	2.570688	46.211655
.000000	55.453986	3.084823	
0.25000	80.682418	2.570688	46.211655
.000000	41.590489	2.313617	
0.50000	80.682418	2.570688	46.211655
.000000	27.726993	1.542361	
0.75000	80.682418	2.570688	46.211655
.000000	13.863496	0.771147	
1.00000	80.682418	2.570688	46.211655
.000000	.000000	.000000	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4995

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-824.224312	-8.067978	-145.033020
.000000	-174.039624	-9.681573	
0.25000	-824.224312	-8.067978	-145.033020
.000000	-130.529718	-7.261180	
0.50000	-824.224312	-8.067978	-145.033020
.000000	-87.019812	-4.840787	
0.75000	-824.224312	-8.067978	-145.033020
.000000	-43.509906	-2.420393	
1.00000	-824.224312	-8.067978	-145.033020
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	63.259500	6.318873	113.590453
.000000	136.308544	7.582648	
0.25000	63.259500	6.318873	113.590453
.000000	102.231408	5.686986	
0.50000	63.259500	6.318873	113.590453
.000000	68.154272	3.790276	
0.75000	63.259500	6.318873	113.590453
.000000	34.077136	1.895030	
1.00000	63.259500	6.318873	113.590453
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-158.230274	-0.691966	-12.439036
.000000	-14.926843	-0.830359	
0.25000	-158.230274	-0.691966	-12.439036
.000000	-11.195133	-0.622769	
0.50000	-158.230274	-0.691966	-12.439036
.000000	-7.463422	-0.415106	
0.75000	-158.230274	-0.691966	-12.439036
.000000	-3.731711	-0.207529	
1.00000	-158.230274	-0.691966	-12.439036
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	84.669522	5.393427	96.954285
.000000	116.345142	6.472105	
0.25000	84.669522	5.393427	96.954285
.000000	87.258856	4.853483	
0.50000	84.669522	5.393427	96.954285
.000000	58.172571	3.234172	
0.75000	84.669522	5.393427	96.954285
.000000	29.086285	1.616996	
1.00000	84.669522	5.393427	96.954285
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-687.802390	-8.916542	-160.287127
.000000	-192.344553	-10.699850	
0.25000	-687.802390	-8.916542	-160.287127
.000000	-144.258415	-8.024434	
0.50000	-687.802390	-8.916542	-160.287127
.000000	-96.172276	-5.349519	
0.75000	-687.802390	-8.916542	-160.287127
.000000	-48.086138	-2.674819	
1.00000	-687.802390	-8.916542	-160.287127
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	111.495950	5.143955	92.469673
.000000	110.963608	6.172140	
0.25000	111.495950	5.143955	92.469673
.000000	83.222706	4.628599	
0.50000	111.495950	5.143955	92.469673
.000000	55.481804	3.084733	
0.75000	111.495950	5.143955	92.469673
.000000	27.740902	1.543016	
1.00000	111.495950	5.143955	92.469673
.000000	.000000	.000000	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4996

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1396.832	-7.252385	-130.371611
.000000	-156.445933	-8.702280	
0.25000	-1396.832	-7.252385	-130.371611
.000000	-117.334450	-6.526113	
0.50000	-1396.832	-7.252385	-130.371611
.000000	-78.222967	-4.350562	
0.75000	-1396.832	-7.252385	-130.371611
.000000	-39.111483	-2.175276	
1.00000	-1396.832	-7.252385	-130.371611
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	118.343711	7.875237	141.568229
.000000	169.881875	9.449939	
0.25000	118.343711	7.875237	141.568229
.000000	127.411406	7.086959	
0.50000	118.343711	7.875237	141.568229
.000000	84.940937	4.723738	
0.75000	118.343711	7.875237	141.568229
.000000	42.470469	2.361796	
1.00000	118.343711	7.875237	141.568229
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1506.735	-6.592388	-118.507252
.000000	-142.208703	-7.910179	
0.25000	-1506.735	-6.592388	-118.507252
.000000	-106.656527	-5.932307	
0.50000	-1506.735	-6.592388	-118.507252
.000000	-71.104351	-3.955050	
0.75000	-1506.735	-6.592388	-118.507252
.000000	-35.552176	-1.977222	
1.00000	-1506.735	-6.592388	-118.507252
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	41.163673	0.037769	0.678957
.000000	0.814748	0.045323	
0.25000	41.163673	0.037769	0.678957
.000000	0.611061	0.033992	
0.50000	41.163673	0.037769	0.678957
.000000	0.407374	0.022662	
0.75000	41.163673	0.037769	0.678957
.000000	0.203687	0.011315	
1.00000	41.163673	0.037769	0.678957
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-755.522006	-9.411998	-169.193630
.000000	-203.032356	-11.294397	
0.25000	-755.522006	-9.411998	-169.193630
.000000	-152.274267	-8.470798	
0.50000	-755.522006	-9.411998	-169.193630
.000000	-101.516178	-5.647199	
0.75000	-755.522006	-9.411998	-169.193630
.000000	-50.758089	-2.823577	
1.00000	-755.522006	-9.411998	-169.193630
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	78.093032	2.881329	51.795853
.000000	62.155024	3.456838	
0.25000	78.093032	2.881329	51.795853
.000000	46.616268	2.592676	
0.50000	78.093032	2.881329	51.795853
.000000	31.077512	1.728574	
0.75000	78.093032	2.881329	51.795853
.000000	15.538756	0.863992	
1.00000	78.093032	2.881329	51.795853
.000000	.000000	.000000	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4997

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1547.223	-7.326684	-131.707235
.000000	-158.048682	-8.791200	
0.25000	-1547.223	-7.326684	-131.707235
.000000	-118.536511	-6.593261	
0.50000	-1547.223	-7.326684	-131.707235
.000000	-79.024341	-4.395412	
0.75000	-1547.223	-7.326684	-131.707235
.000000	-39.512170	-2.197575	
1.00000	-1547.223	-7.326684	-131.707235
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	106.883097	4.003655	71.971210
.000000	86.365452	4.803559	
0.25000	106.883097	4.003655	71.971210
.000000	64.774089	3.602610	
0.50000	106.883097	4.003655	71.971210
.000000	43.182726	2.401904	
0.75000	106.883097	4.003655	71.971210
.000000	21.591363	1.200482	
1.00000	106.883097	4.003655	71.971210
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1621.222	-9.014198	-162.042627
.000000	-194.451152	-10.816487	
0.25000	-1621.222	-9.014198	-162.042627
.000000	-145.838364	-8.112388	
0.50000	-1621.222	-9.014198	-162.042627
.000000	-97.225576	-5.407869	
0.75000	-1621.222	-9.014198	-162.042627
.000000	-48.612788	-2.703688	
1.00000	-1621.222	-9.014198	-162.042627
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	115.344128	4.495934	80.820616
.000000	96.984740	5.394542	
0.25000	115.344128	4.495934	80.820616
.000000	72.738555	4.045962	
0.50000	115.344128	4.495934	80.820616
.000000	48.492370	2.697400	
0.75000	115.344128	4.495934	80.820616
.000000	24.246185	1.348253	
1.00000	115.344128	4.495934	80.820616
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1530.120	-8.350254	-150.107327
.000000	-180.128793	-10.019737	
0.25000	-1530.120	-8.350254	-150.107327
.000000	-135.096595	-7.514683	
0.50000	-1530.120	-8.350254	-150.107327
.000000	-90.064396	-5.009683	
0.75000	-1530.120	-8.350254	-150.107327
.000000	-45.032198	-2.504400	
1.00000	-1530.120	-8.350254	-150.107327
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	49.490661	0.620869	11.160980
.000000	13.393176	0.745063	
0.25000	49.490661	0.620869	11.160980
.000000	10.044882	0.558794	
0.50000	49.490661	0.620869	11.160980
.000000	6.696588	0.372549	
0.75000	49.490661	0.620869	11.160980
.000000	3.348294	0.186332	
1.00000	49.490661	0.620869	11.160980
.000000	.000000	.000000	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4998

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-143.661341	-2.341184	-42.086008
.000000	-50.503209	-2.809129	
0.25000	-143.661341	-2.341184	-42.086008
.000000	-37.877407	-2.106941	
0.50000	-143.661341	-2.341184	-42.086008
.000000	-25.251605	-1.404371	
0.75000	-143.661341	-2.341184	-42.086008
.000000	-12.625802	-0.702030	
1.00000	-143.661341	-2.341184	-42.086008
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	72.439142	6.078756	109.274014
.000000	131.128816	7.298509	
0.25000	72.439142	6.078756	109.274014
.000000	98.346612	5.470904	
0.50000	72.439142	6.078756	109.274014
.000000	65.564408	3.647221	
0.75000	72.439142	6.078756	109.274014
.000000	32.782204	1.823740	
1.00000	72.439142	6.078756	109.274014
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-739.378826	-2.570784	-46.213387
.000000	-55.456065	-3.084782	
0.25000	-739.378826	-2.570784	-46.213387
.000000	-41.592048	-2.313747	
0.50000	-739.378826	-2.570784	-46.213387
.000000	-27.728032	-1.542334	
0.75000	-739.378826	-2.570784	-46.213387
.000000	-13.864016	-0.770831	
1.00000	-739.378826	-2.570784	-46.213387
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	100.456445	3.448231	61.986703
.000000	74.384044	4.137966	
0.25000	100.456445	3.448231	61.986703
.000000	55.788033	3.103184	
0.50000	100.456445	3.448231	61.986703
.000000	37.192022	2.068978	
0.75000	100.456445	3.448231	61.986703
.000000	18.596011	1.034766	
1.00000	100.456445	3.448231	61.986703
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1388.728	-5.118813	-92.017710
.000000	-110.421252	-6.141882	
0.25000	-1388.728	-5.118813	-92.017710
.000000	-82.815939	-4.606475	
0.50000	-1388.728	-5.118813	-92.017710
.000000	-55.210626	-3.070523	
0.75000	-1388.728	-5.118813	-92.017710
.000000	-27.605313	-1.534992	
1.00000	-1388.728	-5.118813	-92.017710
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	114.092418	3.285307	59.057918
.000000	70.869502	3.942359	
0.25000	114.092418	3.285307	59.057918
.000000	53.152126	2.956462	
0.50000	114.092418	3.285307	59.057918
.000000	35.434751	1.971180	
0.75000	114.092418	3.285307	59.057918
.000000	17.717375	0.985578	
1.00000	114.092418	3.285307	59.057918
.000000	.000000	.000000	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
4999

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1474.428	-10.260743	-184.451004
.000000	-221.341205	-12.312306	
0.25000	-1474.428	-10.260743	-184.451004
.000000	-166.005904	-9.234169	
0.50000	-1474.428	-10.260743	-184.451004
.000000	-110.670602	-6.155811	
0.75000	-1474.428	-10.260743	-184.451004
.000000	-55.335301	-3.077547	
1.00000	-1474.428	-10.260743	-184.451004
.000000	.000000	.000000	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	82.893927	5.530039	99.410067
.000000	119.292080	6.636046	
0.25000	82.893927	5.530039	99.410067
.000000	89.469060	4.977035	
0.50000	82.893927	5.530039	99.410067
.000000	59.646040	3.318023	
0.75000	82.893927	5.530039	99.410067
.000000	29.823020	1.658988	
1.00000	82.893927	5.530039	99.410067
.000000	.000000	.000000	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-918.171891	-8.067978	-145.033020
.000000	-174.039624	-9.681573	
0.25000	-918.171891	-8.067978	-145.033020
.000000	-130.529718	-7.261180	
0.50000	-918.171891	-8.067978	-145.033020
.000000	-87.019812	-4.840787	
0.75000	-918.171891	-8.067978	-145.033020
.000000	-43.509906	-2.420393	
1.00000	-918.171891	-8.067978	-145.033020
.000000	.000000	.000000	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	118.343711	7.875237	141.568229
.000000	169.881875	9.449939	
0.25000	118.343711	7.875237	141.568229
.000000	127.411406	7.086959	
0.50000	118.343711	7.875237	141.568229
.000000	84.940937	4.723738	
0.75000	118.343711	7.875237	141.568229
.000000	42.470469	2.361796	
1.00000	118.343711	7.875237	141.568229
.000000	.000000	.000000	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1621.222	-10.260743	-184.451004
.000000	-221.341205	-12.312306	
0.25000	-1621.222	-10.260743	-184.451004
.000000	-166.005904	-9.234169	
0.50000	-1621.222	-10.260743	-184.451004
.000000	-110.670602	-6.155811	
0.75000	-1621.222	-10.260743	-184.451004
.000000	-55.335301	-3.077547	
1.00000	-1621.222	-10.260743	-184.451004
.000000	.000000	.000000	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	118.343711	7.875237	141.568229
.000000	169.881875	9.449939	
0.25000	118.343711	7.875237	141.568229
.000000	127.411406	7.086959	
0.50000	118.343711	7.875237	141.568229
.000000	84.940937	4.723738	
0.75000	118.343711	7.875237	141.568229
.000000	42.470469	2.361796	
1.00000	118.343711	7.875237	141.568229
.000000	.000000	.000000	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1621.222	-10.260743	-184.451004
.000000	-221.341205	-12.312306	
0.25000	-1621.222	-10.260743	-184.451004
.000000	-166.005904	-9.234169	
0.50000	-1621.222	-10.260743	-184.451004
.000000	-110.670602	-6.155811	
0.75000	-1621.222	-10.260743	-184.451004
.000000	-55.335301	-3.077547	
1.00000	-1621.222	-10.260743	-184.451004
.000000	.000000	.000000	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	118.343711	7.875237	141.568229
.000000	169.881875	9.449939	
0.25000	118.343711	7.875237	141.568229
.000000	127.411406	7.086959	
0.50000	118.343711	7.875237	141.568229
.000000	84.940937	4.723738	
0.75000	118.343711	7.875237	141.568229
.000000	42.470469	2.361796	
1.00000	118.343711	7.875237	141.568229
.000000	.000000	.000000	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1621.222	-10.260743	-184.451004
.000000	-221.341205	-12.312306	
0.25000	-1621.222	-10.260743	-184.451004
.000000	-166.005904	-9.234169	
0.50000	-1621.222	-10.260743	-184.451004
.000000	-110.670602	-6.155811	
0.75000	-1621.222	-10.260743	-184.451004
.000000	-55.335301	-3.077547	
1.00000	-1621.222	-10.260743	-184.451004
.000000	.000000	.000000	

ELEM 490 ========== LENGTH = 1.200000

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	39.534594	12.521920	48.423447
.000000	58.108137	15.026304	
0.25000	39.534594	12.521920	48.423447
.000000	43.581103	11.269728	
0.50000	39.534594	12.521920	48.423447
.000000	29.054068	7.513152	
0.75000	39.534594	12.521920	48.423447
.000000	14.527034	3.756576	
1.00000	39.534594	12.521920	48.423447
.000000	.000000	.000000	

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -81.686479 -10.121217 -7.555659
.000000 -9.066791 -12.145460
0.25000 -81.686479 -10.121217 -7.555659
.000000 -6.800093 -9.109095
0.50000 -81.686479 -10.121217 -7.555659
.000000 -4.533395 -6.072730
0.75000 -81.686479 -10.121217 -7.555659
.000000 -2.266698 -3.036365
1.00000 -81.686479 -10.121217 -7.555659
.000000 .000000 .000000

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 59.049802 17.709612 44.052333
.000000 52.862799 21.251534
0.25000 59.049802 17.709612 44.052333
.000000 39.647099 15.938651
0.50000 59.049802 17.709612 44.052333
.000000 26.431400 10.625767
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5001

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 59.049802 17.709612 44.052333
.000000 13.215700 5.312884
1.00000 59.049802 17.709612 44.052333
.000000 .000000 .000000

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -363.135132 -19.428688 -123.068106
.000000 -147.681727 -23.314425
0.25000 -363.135132 -19.428688 -123.068106
.000000 -110.761296 -17.485819
0.50000 -363.135132 -19.428688 -123.068106
.000000 -73.840864 -11.657213
0.75000 -363.135132 -19.428688 -123.068106
.000000 -36.920432 -5.828606
1.00000 -363.135132 -19.428688 -123.068106
.000000 .000000 .000000

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 78.374249 29.441951 39.353276
.000000 47.223931 35.330341
0.25000 78.374249 29.441951 39.353276
.000000 35.417949 26.497756
0.50000 78.374249 29.441951 39.353276
.000000 23.611966 17.665171
0.75000 78.374249 29.441951 39.353276
.000000 11.805983 8.832585
1.00000 78.374249 29.441951 39.353276
.000000 .000000 .000000

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -792.342772 -30.473468 -87.424285
.000000 -104.909142 -36.568162
0.25000 -792.342772 -30.473468 -87.424285
.000000 -78.681856 -27.426121
0.50000 -792.342772 -30.473468 -87.424285
.000000 -52.454571 -18.284081
0.75000 -792.342772 -30.473468 -87.424285
.000000 -26.227285 -9.142040
1.00000 -792.342772 -30.473468 -87.424285
.000000 .000000 .000000

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 84.980388 29.240764 95.971462
.000000 115.165755 35.088917
0.25000 84.980388 29.240764 95.971462
.000000 86.374316 26.316688
0.50000 84.980388 29.240764 95.971462
.000000 57.582877 17.544458
0.75000 84.980388 29.240764 95.971462
.000000 28.791439 8.772229
1.00000 84.980388 29.240764 95.971462
.000000 .000000 .000000

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -848.889252 -27.658165 -80.273380
.000000 -96.326056 -33.189799
0.25000 -848.889252 -27.658165 -80.273380
.000000 -72.246042 -24.892349
0.50000 -848.889252 -27.658165 -80.273380
.000000 -48.164028 -16.594899
0.75000 -848.889252 -27.658165 -80.273380
.000000 -24.082014 -8.297439
1.00000 -848.889252 -27.658165 -80.273380
.000000 .000000 .000000

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 29.874421 10.313566 0.813680
.000000 0.976416 12.376279
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5002

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 29.874421 10.313566 0.813680
.000000 0.732312 9.282209
0.50000 29.874421 10.313566 0.813680
.000000 0.488208 6.188139
0.75000 29.874421 10.313566 0.813680
.000000 0.244104 3.094070
1.00000 29.874421 10.313566 0.813680
.000000 .000000 .000000

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -439.391272 -14.515221 -130.494174
.000000 -156.593009 -17.418265
0.25000 -439.391272 -14.515221 -130.494174
.000000 -117.444757 -13.063699
0.50000 -439.391272 -14.515221 -130.494174
.000000 -78.296504 -8.709132
0.75000 -439.391272 -14.515221 -130.494174
.000000 -39.148252 -4.354567
1.00000 -439.391272 -14.515221 -130.494174
.000000 .000000 .000000

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 56.556828 23.584698 50.092557
.000000 60.111069 28.301638
0.25000 56.556828 23.584698 50.092557
.000000 45.083301 21.226228
0.50000 56.556828 23.584698 50.092557
.000000 30.055534 14.150819
0.75000 56.556828 23.584698 50.092557
.000000 15.027767 7.075409
1.00000 56.556828 23.584698 50.092557
.000000 .000000 .000000

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -914.563608 -24.746746 -96.971582
.000000 -116.365898 -29.696095
0.25000 -914.563608 -24.746746 -96.971582
.000000 -87.274423 -22.272072
0.50000 -914.563608 -24.746746 -96.971582
.000000 -58.182949 -14.848048
0.75000 -914.563608 -24.746746 -96.971582
.000000 -29.091474 -7.424024
1.00000 -914.563608 -24.746746 -96.971582
.000000 .000000 .000000

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 77.237731 25.736666 61.200761
.000000 73.440913 30.884000
0.25000 77.237731 25.736666 61.200761
.000000 55.080685 23.163000
0.50000 77.237731 25.736666 61.200761
.000000 36.720457 15.442000
0.75000 77.237731 25.736666 61.200761
.000000 18.360228 7.721000
1.00000 77.237731 25.736666 61.200761
.000000 .000000 .000000

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -920.275555 -28.338851 -132.327756
.000000 -158.793307 -34.006622
0.25000 -920.275555 -28.338851 -132.327756
.000000 -119.094980 -25.504966
0.50000 -920.275555 -28.338851 -132.327756
.000000 -79.396654 -17.003311
0.75000 -920.275555 -28.338851 -132.327756
.000000 -39.698327 -8.501655
1.00000 -920.275555 -28.338851 -132.327756
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5003

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 84.012680 25.483607 69.011858
.000000 82.814229 30.580329
0.25000 84.012680 25.483607 69.011858
.000000 62.110672 22.935247
0.50000 84.012680 25.483607 69.011858
.000000 41.407115 15.290164
0.75000 84.012680 25.483607 69.011858
.000000 20.703557 7.645082
1.00000 84.012680 25.483607 69.011858
.000000 .000000 .000000

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -841.839681 -26.601602 -120.988077
.000000 -145.165693 -31.921923
0.25000 -841.839681 -26.601602 -120.988077
.000000 -108.889270 -23.941442
0.50000 -841.839681 -26.601602 -120.988077
.000000 -72.592846 -15.960961
0.75000 -841.839681 -26.601602 -120.988077
.000000 -36.296423 -7.980481
1.00000 -841.839681 -26.601602 -120.988077
.000000 .000000 .000000

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 30.041086 8.926140 7.688465
.000000 9.226159 10.711368
0.25000 30.041086 8.926140 7.688465
.000000 6.919619 8.033526
0.50000 30.041086 8.926140 7.688465
.000000 4.613079 5.355684
0.75000 30.041086 8.926140 7.688465
.000000 2.306539 2.677842
1.00000 30.041086 8.926140 7.688465
.000000 .000000 .000000

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -72.250385 -9.222202 -22.051150
.000000 -26.461380 -11.066643
0.25000 -72.250385 -9.222202 -22.051150
.000000 -19.846035 -8.299982
0.50000 -72.250385 -9.222202 -22.051150
.000000 -13.230690 -5.533321
0.75000 -72.250385 -9.222202 -22.051150
.000000 -6.615345 -2.766661
1.00000 -72.250385 -9.222202 -22.051150
.000000 .000000 .000000

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 53.569670 17.837688 98.621562
.000000 118.345874 21.405226
0.25000 53.569670 17.837688 98.621562
.000000 88.759406 16.053919
0.50000 53.569670 17.837688 98.621562
.000000 59.172937 10.702613
0.75000 53.569670 17.837688 98.621562
.000000 29.586469 5.351306
1.00000 53.569670 17.837688 98.621562
.000000 .000000 .000000

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -415.515138 -14.848842 -30.187816
.000000 -36.225379 -17.818611
0.25000 -415.515138 -14.848842 -30.187816
.000000 -27.169034 -13.363958
0.50000 -415.515138 -14.848842 -30.187816
.000000 -18.112690 -8.909305
0.75000 -415.515138 -14.848842 -30.187816
.000000 -9.056345 -4.454653
1.00000 -415.515138 -14.848842 -30.187816
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5004

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 73.576237 27.737375 47.002372
.000000 56.402846 33.284851
0.25000 73.576237 27.737375 47.002372
.000000 42.302134 24.963638
0.50000 73.576237 27.737375 47.002372
.000000 28.201423 16.642425
0.75000 73.576237 27.737375 47.002372
.000000 14.100711 8.321213
1.00000 73.576237 27.737375 47.002372
.000000 .000000 .000000

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -806.937661 -27.486226 -52.378862
.000000 -62.854635 -32.983472
0.25000 -806.937661 -27.486226 -52.378862
.000000 -47.140976 -24.737604
0.50000 -806.937661 -27.486226 -52.378862
.000000 -31.427317 -16.491736
0.75000 -806.937661 -27.486226 -52.378862
.000000 -15.713659 -8.245868
1.00000 -806.937661 -27.486226 -52.378862
.000000 .000000 .000000

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 83.249459 25.931994 44.692734
.000000 53.631280 31.118393
0.25000 83.249459 25.931994 44.692734
.000000 40.223460 23.338794
0.50000 83.249459 25.931994 44.692734
.000000 26.815640 15.559196
0.75000 83.249459 25.931994 44.692734
.000000 13.407820 7.779598
1.00000 83.249459 25.931994 44.692734
.000000 .000000 .000000

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -823.715380 -28.601972 -142.553998
.000000 -171.064797 -34.322367
0.25000 -823.715380 -28.601972 -142.553998
.000000 -128.298598 -25.741775
0.50000 -823.715380 -28.601972 -142.553998
.000000 -85.532399 -17.161183
0.75000 -823.715380 -28.601972 -142.553998
.000000 -42.766199 -8.580592
1.00000 -823.715380 -28.601972 -142.553998
.000000 .000000 .000000

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 86.334360 17.737018 118.554964
.000000 142.265956 21.284421
0.25000 86.334360 17.737018 118.554964
.000000 106.699467 15.963316
0.50000 86.334360 17.737018 118.554964
.000000 71.132978 10.642211
0.75000 86.334360 17.737018 118.554964
.000000 35.566489 5.321105
1.00000 86.334360 17.737018 118.554964
.000000 .000000 .000000

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -167.933910 -17.493258 -13.449533
.000000 -16.139440 -20.991910
0.25000 -167.933910 -17.493258 -13.449533
.000000 -12.104580 -15.743932
0.50000 -167.933910 -17.493258 -13.449533
.000000 -8.069720 -10.495955
0.75000 -167.933910 -17.493258 -13.449533
.000000 -4.034860 -5.247977
1.00000 -167.933910 -17.493258 -13.449533
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5005

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 125.355133 27.030411 101.035938
.000000 121.243125 32.436494
0.25000 125.355133 27.030411 101.035938
.000000 90.932344 24.327370
0.50000 125.355133 27.030411 101.035938
.000000 60.621563 16.218247
0.75000 125.355133 27.030411 101.035938
.000000 30.310781 8.109123
1.00000 125.355133 27.030411 101.035938
.000000 .000000 .000000

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -709.319482 -29.249011 -163.945181
.000000 -196.734217 -35.098813
0.25000 -709.319482 -29.249011 -163.945181
.000000 -147.550662 -26.324110
0.50000 -709.319482 -29.249011 -163.945181
.000000 -98.367108 -17.549406
0.75000 -709.319482 -29.249011 -163.945181
.000000 -49.183554 -8.774703
1.00000 -709.319482 -29.249011 -163.945181
.000000 .000000 .000000

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 166.771725 37.099498 95.793352
.000000 114.952023 44.519398
0.25000 166.771725 37.099498 95.793352
.000000 86.214017 33.389548
0.50000 166.771725 37.099498 95.793352
.000000 57.476011 22.259699
0.75000 166.771725 37.099498 95.793352
.000000 28.738006 11.129849
1.00000 166.771725 37.099498 95.793352
.000000 .000000 .000000

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1429.266 -38.788456 -131.923933
.000000 -158.308720 -46.546147
0.25000 -1429.266 -38.788456 -131.923933
.000000 -118.731540 -34.909610
0.50000 -1429.266 -38.788456 -131.923933
.000000 -79.154360 -23.273074
0.75000 -1429.266 -38.788456 -131.923933
.000000 -39.577180 -11.636537
1.00000 -1429.266 -38.788456 -131.923933
.000000 .000000 .000000

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 177.342005 36.383081 146.959412
.000000 176.351294 43.659697
0.25000 177.342005 36.383081 146.959412
.000000 132.263471 32.744773
0.50000 177.342005 36.383081 146.959412
.000000 88.175647 21.829848
0.75000 177.342005 36.383081 146.959412
.000000 44.087824 10.914928
1.00000 177.342005 36.383081 146.959412
.000000 .000000 .000000

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1542.301 -36.295826 -120.474682
.000000 -144.569618 -43.554991
0.25000 -1542.301 -36.295826 -120.474682
.000000 -108.427214 -32.666243
0.50000 -1542.301 -36.295826 -120.474682
.000000 -72.284809 -21.777495
0.75000 -1542.301 -36.295826 -120.474682
.000000 -36.142405 -10.888746
1.00000 -1542.301 -36.295826 -120.474682
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5006

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 62.193767 15.591603 0.709933
.000000 0.851920 18.709923
0.25000 62.193767 15.591603 0.709933
.000000 0.638940 14.032442
0.50000 62.193767 15.591603 0.709933
.000000 0.425960 9.354962
0.75000 62.193767 15.591603 0.709933
.000000 0.212980 4.677481
1.00000 62.193767 15.591603 0.709933
.000000 .000000 .000000

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -769.508838 -18.141706 -172.039019
.000000 -206.446823 -21.770047
0.25000 -769.508838 -18.141706 -172.039019
.000000 -154.835117 -16.327535
0.50000 -769.508838 -18.141706 -172.039019
.000000 -103.223412 -10.885023
0.75000 -769.508838 -18.141706 -172.039019
.000000 -51.611706 -5.442511
1.00000 -769.508838 -18.141706 -172.039019
.000000 .000000 .000000

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 118.249120 28.070633 52.603096
.000000 63.123715 33.684759
0.25000 118.249120 28.070633 52.603096
.000000 47.342786 25.263570
0.50000 118.249120 28.070633 52.603096
.000000 31.561857 16.842380
0.75000 118.249120 28.070633 52.603096
.000000 15.780929 8.421190
1.00000 118.249120 28.070633 52.603096
.000000 .000000 .000000

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1575.778 -28.792244 -132.315603
.000000 -158.778723 -34.550693
0.25000 -1575.778 -28.792244 -132.315603
.000000 -119.084042 -25.913019
0.50000 -1575.778 -28.792244 -132.315603
.000000 -79.389362 -17.275346
0.75000 -1575.778 -28.792244 -132.315603
.000000 -39.694681 -8.637673
1.00000 -1575.778 -28.792244 -132.315603
.000000 .000000 .000000

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 160.818750 31.344431 74.654828
.000000 89.585794 37.613318
0.25000 160.818750 31.344431 74.654828
.000000 67.189345 28.209988
0.50000 160.818750 31.344431 74.654828
.000000 44.792897 18.806659
0.75000 160.818750 31.344431 74.654828
.000000 22.396448 9.403329
1.00000 160.818750 31.344431 74.654828
.000000 .000000 .000000

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1656.330 -33.676787 -164.837333
.000000 -197.804799 -40.412145
0.25000 -1656.330 -33.676787 -164.837333
.000000 -148.353599 -30.309108
0.50000 -1656.330 -33.676787 -164.837333
.000000 -98.902400 -20.206072
0.75000 -1656.330 -33.676787 -164.837333
.000000 -49.451200 -10.103036
1.00000 -1656.330 -33.676787 -164.837333
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5007

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 173.724085 30.593162 84.375143
.000000 101.250172 36.711794
0.25000 173.724085 30.593162 84.375143
.000000 75.937629 27.533845
0.50000 173.724085 30.593162 84.375143
.000000 50.625086 18.355897
0.75000 173.724085 30.593162 84.375143
.000000 25.312543 9.177948
1.00000 173.724085 30.593162 84.375143
.000000 .000000 .000000

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1564.419 -31.514211 -153.750648
.000000 -184.500777 -37.817053
0.25000 -1564.419 -31.514211 -153.750648
.000000 -138.375583 -28.362210
0.50000 -1564.419 -31.514211 -153.750648
.000000 -92.250389 -18.908526
0.75000 -1564.419 -31.514211 -153.750648
.000000 -46.125194 -9.454259
1.00000 -1564.419 -31.514211 -153.750648
.000000 .000000 .000000

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 70.758267 11.304445 12.073362
.000000 14.488034 13.565334
0.25000 70.758267 11.304445 12.073362
.000000 10.866025 10.174000
0.50000 70.758267 11.304445 12.073362
.000000 7.244017 6.782667
0.75000 70.758267 11.304445 12.073362
.000000 3.622008 3.391333
1.00000 70.758267 11.304445 12.073362
.000000 .000000 .000000

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -148.598565 -10.531987 -46.231496

```
   .000000  -55.477796  -12.638384
0.25000 -148.598565  -10.531987  -46.231496
   .000000  -41.608347   -9.478788
0.50000 -148.598565  -10.531987  -46.231496
   .000000  -27.738898   -6.319192
0.75000 -148.598565  -10.531987  -46.231496
   .000000  -13.869449   -3.159596
1.00000 -148.598565  -10.531987  -46.231496
   .000000    .000000    .000000

COMB DL-G3-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  109.720757   21.378168  112.656564
   .000000  135.187877   25.653802
0.25000  109.720757   21.378168  112.656564
   .000000  101.390908   19.240352
0.50000  109.720757   21.378168  112.656564
   .000000   67.593939   12.826901
0.75000  109.720757   21.378168  112.656564
   .000000   33.796969    6.413451
1.00000  109.720757   21.378168  112.656564
   .000000    .000000    .000000

COMB DL-G3-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -756.347676  -18.634026  -49.889464
   .000000  -59.867357   -22.360831
0.25000 -756.347676  -18.634026  -49.889464
   .000000  -44.900518   -16.770623
0.50000 -756.347676  -18.634026  -49.889464
   .000000  -29.933679   -11.180415
0.75000 -756.347676  -18.634026  -49.889464
   .000000  -14.966839    -5.590208
1.00000 -756.347676  -18.634026  -49.889464
   .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    5008

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  152.348240   31.896431   63.411563
   .000000   76.093876   38.275717
0.25000  152.348240   31.896431   63.411563
   .000000   57.070407   28.706788
0.50000  152.348240   31.896431   63.411563
   .000000   38.046938   19.137859
0.75000  152.348240   31.896431   63.411563
   .000000   19.023469    9.568929
1.00000  152.348240   31.896431   63.411563
   .000000    .000000    .000000

COMB DL-G3-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1416.014  -30.952785  -94.973656
   .000000 -113.968387   -37.143342
0.25000   -1416.014  -30.952785  -94.973656
   .000000  -85.476291   -27.857507
0.50000   -1416.014  -30.952785  -94.973656
   .000000  -56.984194   -18.571671
0.75000   -1416.014  -30.952785  -94.973656
   .000000  -28.492097    -9.285816
1.00000   -1416.014  -30.952785  -94.973656
   .000000    .000000    .000000

COMB DL-G3-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  172.235335   32.516312   61.062244
   .000000   73.274693   39.019574
0.25000  172.235335   32.516312   61.062244
   .000000   54.956020   29.264680
0.50000  172.235335   32.516312   61.062244
   .000000   36.637347   19.509787
0.75000  172.235335   32.516312   61.062244
   .000000   18.318673    9.754893
1.00000  172.235335   32.516312   61.062244
   .000000    .000000    .000000

COMB DL-G3-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1506.383  -33.377239  -189.440117
   .000000  -227.328141   -46.546147
0.25000   -1506.383  -33.377239  -189.440117
   .000000  -170.496106   -30.039515
0.50000   -1506.383  -33.377239  -189.440117
   .000000  -113.664070   -20.026343
0.75000   -1506.383  -33.377239  -189.440117
   .000000   -56.832035   -10.013155
1.00000   -1506.383  -33.377239  -189.440117
   .000000    .000000    .000000

COMB      DB ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  84.980388   29.441951   98.621562
   .000000  118.345874   35.330341
0.25000  84.980388   29.441951   98.621562
   .000000   88.759406   26.497756
0.50000  84.980388   29.441951   98.621562
   .000000   59.172937   17.665171
0.75000  84.980388   29.441951   98.621562
   .000000   29.586469    8.832585
1.00000  84.980388   29.441951   98.621562
   .000000    .000000    .000000

COMB      DB ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -920.275555  -30.473468  -142.553998
   .000000 -171.064797   -36.568162
0.25000 -920.275555  -30.473468  -142.553998
   .000000 -128.298598   -27.426121
0.50000 -920.275555  -30.473468  -142.553998
   .000000  -85.532399   -18.284081
0.75000 -920.275555  -30.473468  -142.553998
   .000000  -42.766199    -9.142040
1.00000 -920.275555  -30.473468  -142.553998
   .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    5009

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  177.342005   37.099498  146.959412
   .000000  176.351294   44.519398
0.25000  177.342005   37.099498  146.959412
   .000000  132.263471   33.389548
0.50000  177.342005   37.099498  146.959412
   .000000   88.175647   22.259699
0.75000  177.342005   37.099498  146.959412
   .000000   44.087824   11.129849
1.00000  177.342005   37.099498  146.959412
   .000000    .000000    .000000

COMB       DL ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1656.330  -38.788456  -189.440117
   .000000  -227.328141   -46.546147
0.25000   -1656.330  -38.788456  -189.440117
   .000000  -170.496106   -34.909610
0.50000   -1656.330  -38.788456  -189.440117
   .000000  -113.664070   -23.273074
0.75000   -1656.330  -38.788456  -189.440117
   .000000   -56.832035   -11.636537
1.00000   -1656.330  -38.788456  -189.440117
   .000000    .000000    .000000

COMB      CAR ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  177.342005   37.099498  146.959412
   .000000  176.351294   44.519398
0.25000  177.342005   37.099498  146.959412
   .000000  132.263471   33.389548
0.50000  177.342005   37.099498  146.959412
   .000000   88.175647   22.259699
0.75000  177.342005   37.099498  146.959412
   .000000   44.087824   11.129849
1.00000  177.342005   37.099498  146.959412
   .000000    .000000    .000000

COMB      CAR ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1656.330  -38.788456  -189.440117
   .000000  -227.328141   -46.546147
0.25000   -1656.330  -38.788456  -189.440117
   .000000  -170.496106   -34.909610
0.50000   -1656.330  -38.788456  -189.440117
   .000000  -113.664070   -23.273074
0.75000   -1656.330  -38.788456  -189.440117
   .000000   -56.832035   -11.636537
1.00000   -1656.330  -38.788456  -189.440117
   .000000    .000000    .000000

COMB   DESIGN ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  177.342005   37.099498  146.959412
   .000000  176.351294   44.519398
0.25000  177.342005   37.099498  146.959412
   .000000  132.263471   33.389548
0.50000  177.342005   37.099498  146.959412
   .000000   88.175647   22.259699
0.75000  177.342005   37.099498  146.959412
   .000000   44.087824   11.129849
1.00000  177.342005   37.099498  146.959412
   .000000    .000000    .000000

COMB   DESIGN ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -1656.330  -38.788456  -189.440117
   .000000  -227.328141   -46.546147
0.25000   -1656.330  -38.788456  -189.440117
   .000000  -170.496106   -34.909610
0.50000   -1656.330  -38.788456  -189.440117
   .000000  -113.664070   -23.273074
0.75000   -1656.330  -38.788456  -189.440117
   .000000   -56.832035   -11.636537
1.00000   -1656.330  -38.788456  -189.440117
   .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    5010

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       491 ================== LENGTH
=     1.200000

COMB DB-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  39.647189    0.177967   49.740202
   .000000  59.688243    0.213517
0.25000  39.647189    0.177967   49.740202
   .000000  44.766182    0.160170
0.50000  39.647189    0.177967   49.740202
   .000000  29.844121    0.106750
0.75000  39.647189    0.177967   49.740202
   .000000  14.922061    0.053358
1.00000  39.647189    0.177967   49.740202
   .000000    .000000    .000000

COMB DB-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -81.655826   -0.035087   -9.807278
   .000000  -11.768733   -0.041977
0.25000  -81.655826   -0.035087   -9.807278
   .000000   -8.826550   -0.031457
0.50000  -81.655826   -0.035087   -9.807278
   .000000   -5.884367   -0.020975
0.75000  -81.655826   -0.035087   -9.807278
   .000000   -2.942183   -0.010275
1.00000  -81.655826   -0.035087   -9.807278
   .000000    .000000    .000000

COMB DB-G1-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  66.175389    0.171370   47.896321
   .000000  57.475586    0.205626
0.25000  66.175389    0.171370   47.896321
   .000000  43.106689    0.154218
0.50000  66.175389    0.171370   47.896321
   .000000  28.737793    0.102789
0.75000  66.175389    0.171370   47.896321
   .000000  14.368896    0.051243
1.00000  66.175389    0.171370   47.896321
   .000000    .000000    .000000

COMB DB-G1-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -363.106441   -0.449633  -125.668695
   .000000 -150.802434   -0.539404
0.25000 -363.106441   -0.449633  -125.668695
   .000000 -113.101826   -0.404532
0.50000 -363.106441   -0.449633  -125.668695
   .000000  -75.401217   -0.269554
0.75000 -363.106441   -0.449633  -125.668695
   .000000  -37.700609   -0.134623
1.00000 -363.106441   -0.449633  -125.668695
   .000000    .000000    .000000

COMB DB-G1-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  87.753112    0.153360   42.862550
   .000000  51.435060    0.184020
0.25000  87.753112    0.153360   42.862550
   .000000  38.576295    0.138018
0.50000  87.753112    0.153360   42.862550
   .000000  25.717530    0.091990
0.75000  87.753112    0.153360   42.862550
   .000000  12.858765    0.045823
1.00000  87.753112    0.153360   42.862550
   .000000    .000000    .000000

COMB DB-G1-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -792.340620   -0.323694   -90.470550
   .000000 -108.564660   -0.388265
0.25000 -792.340620   -0.323694   -90.470550
   .000000  -81.423495   -0.291184
0.50000 -792.340620   -0.323694   -90.470550
   .000000  -54.282330   -0.194012
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    5011

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.75000 -792.340620   -0.323694   -90.470550
   .000000  -27.141165   -0.096756
1.00000 -792.340620   -0.323694   -90.470550
   .000000    .000000    .000000

COMB DB-G1-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  95.251342    0.356451   99.625871
   .000000  119.551045    0.427556
0.25000  95.251342    0.356451   99.625871
   .000000  89.663284    0.320899
0.50000  95.251342    0.356451   99.625871
   .000000  59.775523    0.213863
0.75000  95.251342    0.356451   99.625871
   .000000  29.887761    0.106692
1.00000  95.251342    0.356451   99.625871
   .000000    .000000    .000000

COMB DB-G1-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -849.148789   -0.302558   -84.562331
   .000000 -101.474797   -0.362920
0.25000 -849.148789   -0.302558   -84.562331
   .000000  -76.106098   -0.272180
0.50000 -849.148789   -0.302558   -84.562331
   .000000  -50.737399   -0.181336
0.75000 -849.148789   -0.302558   -84.562331
   .000000  -25.368699   -0.090491
1.00000 -849.148789   -0.302558   -84.562331
   .000000    .000000    .000000

COMB DB-G2-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  33.274996    0.002704    0.755648
   .000000   0.906778    0.003191
0.25000  33.274996    0.002704    0.755648
   .000000   0.680084    0.002351
0.50000  33.274996    0.002704    0.755648
   .000000   0.453389    0.001563
0.75000  33.274996    0.002704    0.755648
   .000000   0.226695    0.000751
1.00000  33.274996    0.002704    0.755648
   .000000    .000000    .000000

COMB DB-G2-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -439.490853   -0.467161  -130.567843
   .000000 -156.681412   -0.560585
0.25000 -439.490853   -0.467161  -130.567843
   .000000 -117.511059   -0.420439
0.50000 -439.490853   -0.467161  -130.567843
   .000000  -78.340706   -0.280252
0.75000 -439.490853   -0.467161  -130.567843
   .000000  -39.170353   -0.140142
1.00000 -439.490853   -0.467161  -130.567843
   .000000    .000000    .000000

COMB DB-G2-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  63.169741    0.182168   50.915414
   .000000  61.098497    0.218353
0.25000  63.169741    0.182168   50.915414
   .000000  45.823873    0.164066
0.50000  63.169741    0.182168   50.915414
   .000000  30.549249    0.109314
0.75000  63.169741    0.182168   50.915414
   .000000  15.274624    0.054554
1.00000  63.169741    0.182168   50.915414
   .000000    .000000    .000000

COMB DB-G2-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -914.756013   -0.352248   -98.450079
   .000000 -118.140095   -0.422671
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    5012

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.25000 -914.756013   -0.352248   -98.450079
   .000000  -88.605071   -0.316998
0.50000 -914.756013   -0.352248   -98.450079
   .000000  -59.070047   -0.211314
0.75000 -914.756013   -0.352248   -98.450079
   .000000  -29.535024   -0.105592
1.00000 -914.756013   -0.352248   -98.450079
   .000000    .000000    .000000

COMB DB-G2-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  86.394817    0.229691   64.203709
   .000000  77.044450    0.275393
0.25000  86.394817    0.229691   64.203709
   .000000  57.783338    0.206796
0.50000  86.394817    0.229691   64.203709
   .000000  38.522225    0.137777
0.75000  86.394817    0.229691   64.203709
   .000000  19.261113    0.068765
1.00000  86.394817    0.229691   64.203709
   .000000    .000000    .000000

COMB DB-G2-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -920.204636   -0.479718  -134.076668
   .000000 -160.892001   -0.575641
0.25000 -920.204636   -0.479718  -134.076668
   .000000 -120.669001   -0.431726
0.50000 -920.204636   -0.479718  -134.076668
   .000000  -80.446001   -0.287801
0.75000 -920.204636   -0.479718  -134.076668
   .000000  -40.223000   -0.143847
1.00000 -920.204636   -0.479718  -134.076668
   .000000    .000000    .000000

COMB DB-G2-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  94.119744    0.256715   71.750268
   .000000  86.100321    0.307838
0.25000  94.119744    0.256715   71.750268
   .000000  64.575241    0.231088
0.50000  94.119744    0.256715   71.750268
   .000000  43.050161    0.153999
0.75000  94.119744    0.256715   71.750268
   .000000  21.525080    0.076843
1.00000  94.119744    0.256715   71.750268
   .000000    .000000    .000000

COMB DB-G2-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -842.378685   -0.445448  -124.498391
   .000000 -149.398069   -0.534518
0.25000 -842.378685   -0.445448  -124.498391
   .000000 -112.048552   -0.400868
0.50000 -842.378685   -0.445448  -124.498391
   .000000  -74.699035   -0.267209
0.75000 -842.378685   -0.445448  -124.498391
   .000000  -37.349517   -0.133549
1.00000 -842.378685   -0.445448  -124.498391
   .000000    .000000    .000000

COMB DB-G3-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  33.833214    0.034543    9.655567
   .000000  11.586680    0.041404
0.25000  33.833214    0.034543    9.655567
   .000000   8.690010    0.030975
0.50000  33.833214    0.034543    9.655567
   .000000   5.793340    0.020554
0.75000  33.833214    0.034543    9.655567
   .000000   2.896670    0.010065
1.00000  33.833214    0.034543    9.655567
   .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    5013

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000  -73.423240   -0.091235  -25.499213
   .000000  -30.599055   -0.109483
0.25000  -73.423240   -0.091235  -25.499213
   .000000  -22.949292   -0.082112
0.50000  -73.423240   -0.091235  -25.499213
   .000000  -15.299528   -0.054694
0.75000  -73.423240   -0.091235  -25.499213
   .000000   -7.649764   -0.027313
1.00000  -73.423240   -0.091235  -25.499213
   .000000    .000000    .000000

COMB DB-G3-2 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  60.243846    0.361377  101.002718
   .000000  121.203262    0.433599
0.25000  60.243846    0.361377  101.002718
   .000000   90.902447    0.325120
0.50000  60.243846    0.361377  101.002718
   .000000   60.601631    0.216628
0.75000  60.243846    0.361377  101.002718
   .000000   30.300816    0.108068
1.00000  60.243846    0.361377  101.002718
   .000000    .000000    .000000

COMB DB-G3-2 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -416.898477   -0.126135  -35.253526
   .000000  -42.304231   -0.151365
0.25000 -416.898477   -0.126135  -35.253526
   .000000  -31.728173   -0.113517
0.50000 -416.898477   -0.126135  -35.253526
   .000000  -21.152115   -0.075656
0.75000 -416.898477   -0.126135  -35.253526
   .000000  -10.576058   -0.037744
1.00000 -416.898477   -0.126135  -35.253526
   .000000    .000000    .000000

COMB DB-G3-3 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  82.495702    0.174040   48.649412
   .000000  58.379294    0.208605
0.25000  82.495702    0.174040   48.649412
   .000000  43.784471    0.156556
0.50000  82.495702    0.174040   48.649412
   .000000  29.189647    0.104276
0.75000  82.495702    0.174040   48.649412
   .000000  14.594824    0.052007
1.00000  82.495702    0.174040   48.649412
   .000000    .000000    .000000

COMB DB-G3-3 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -808.254776   -0.204478   -57.149504
   .000000  -68.579405   -0.245374
0.25000 -808.254776   -0.204478   -57.149504
   .000000  -51.434554   -0.184011
0.50000 -808.254776   -0.204478   -57.149504
   .000000  -34.289702   -0.122638
0.75000 -808.254776   -0.204478   -57.149504
   .000000  -17.144851   -0.061236
1.00000 -808.254776   -0.204478   -57.149504
   .000000    .000000    .000000

COMB DB-G3-4 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  93.259970    0.168669   47.143284
   .000000  56.571941    0.202170
0.25000  93.259970    0.168669   47.143284
   .000000  42.428956    0.151812
0.50000  93.259970    0.168669   47.143284
   .000000  28.285971    0.101177
0.75000  93.259970    0.168669   47.143284
   .000000  14.142985    0.050542
1.00000  93.259970    0.168669   47.143284
   .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                     Page
<              MOVING              LOAD              >
                                    5014

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DB-G3-4 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -824.682844   -0.525104  -146.761481
   .000000 -176.113777   -0.630105
0.25000 -824.682844   -0.525104  -146.761481
   .000000 -132.085333   -0.472574
0.50000 -824.682844   -0.525104  -146.761481
   .000000  -88.056888   -0.315019
0.75000 -824.682844   -0.525104  -146.761481
   .000000  -44.028444   -0.157425
1.00000 -824.682844   -0.525104  -146.761481
   .000000    .000000    .000000

COMB DL-G1-1 ------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000  96.817801    0.430385  120.311879
   .000000  144.374254    0.515988
0.25000  96.817801    0.430385  120.311879
   .000000  108.280691    0.386985
0.50000  96.817801    0.430385  120.311879
   .000000   72.187127    0.257845
0.75000  96.817801    0.430385  120.311879
   .000000   36.093564    0.128854
1.00000  96.817801    0.430385  120.311879
   .000000    .000000    .000000

COMB DL-G1-1 ------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000 -166.862382   -0.061815   -17.286468
```

.000000 -20.743762 -0.073769
0.25000 -166.862382 -0.061815 -17.286468
.000000 -15.557821 -0.054958
0.50000 -166.862382 -0.061815 -17.286468
.000000 -10.371881 -0.036021
0.75000 -166.862382 -0.061815 -17.286468
.000000 -5.185940 -0.017171
1.00000 -166.862382 -0.061815 -17.286468
.000000 .000000 .000000

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	145.852088	0.373663	104.465003
.000000	125.358004	0.447810	
0.25000	145.852088	0.373663	104.465003
.000000	94.018503	0.335730	
0.50000	145.852088	0.373663	104.465003
.000000	62.679002	0.223627	
0.75000	145.852088	0.373663	104.465003
.000000	31.339501	0.111566	
1.00000	145.852088	0.373663	104.465003
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-706.829352	-0.601401	-168.088983
.000000	-201.706780	-0.721123	
0.25000	-706.829352	-0.601401	-168.088983
.000000	-151.280085	-0.540019	
0.50000	-706.829352	-0.601401	-168.088983
.000000	-100.853390	-0.358871	
0.75000	-706.829352	-0.601401	-168.088983
.000000	-50.426695	-0.178556	
1.00000	-706.829352	-0.601401	-168.088983
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	193.815497	0.355335	99.334942
.000000	119.201931	0.426589	
0.25000	193.815497	0.355335	99.334942
.000000	89.401448	0.319611	
0.50000	193.815497	0.355335	99.334942
.000000	59.600965	0.212661	
0.75000	193.815497	0.355335	99.334942
.000000	29.800483	0.105776	
1.00000	193.815497	0.355335	99.334942
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5015

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1424.939	-0.488562	-136.599829
.000000	-163.919795	-0.585798	
0.25000	-1424.939	-0.488562	-136.599829
.000000	-122.939846	-0.438622	
0.50000	-1424.939	-0.488562	-136.599829
.000000	-81.959898	-0.291771	
0.75000	-1424.939	-0.488562	-136.599829
.000000	-40.979949	-0.145738	
1.00000	-1424.939	-0.488562	-136.599829
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	206.168433	0.539164	150.710285
.000000	180.852342	0.647394	
0.25000	206.168433	0.539164	150.710285
.000000	135.639257	0.485109	
0.50000	206.168433	0.539164	150.710285
.000000	90.426171	0.322944	
0.75000	206.168433	0.539164	150.710285
.000000	45.213086	0.160693	
1.00000	206.168433	0.539164	150.710285
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1537.144	-0.450455	-125.946788
.000000	-151.136146	-0.540022	
0.25000	-1537.144	-0.450455	-125.946788
.000000	-113.352109	-0.404375	
0.50000	-1537.144	-0.450455	-125.946788
.000000	-75.568073	-0.268966	
0.75000	-1537.144	-0.450455	-125.946788
.000000	-37.784036	-0.134042	
1.00000	-1537.144	-0.450455	-125.946788
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	71.879390	0.002563	0.717041
.000000	0.860449	0.002881	
0.25000	71.879390	0.002563	0.717041
.000000	0.645337	0.002142	
0.50000	71.879390	0.002563	0.717041
.000000	0.430225	0.001372	
0.75000	71.879390	0.002563	0.717041
.000000	0.215112	0.000589	
1.00000	71.879390	0.002563	0.717041
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-767.662419	-0.615014	-171.901293
.000000	-206.281551	-0.737712	
0.25000	-767.662419	-0.615014	-171.901293
.000000	-154.711164	-0.552952	
0.50000	-767.662419	-0.615014	-171.901293
.000000	-103.140776	-0.368513	
0.75000	-767.662419	-0.615014	-171.901293
.000000	-51.570388	-0.184090	
1.00000	-767.662419	-0.615014	-171.901293
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	136.929892	0.191529	53.558138
.000000	64.269766	0.230367	
0.25000	136.929892	0.191529	53.558138
.000000	48.202325	0.172873	
0.50000	136.929892	0.191529	53.558138
.000000	32.134883	0.114838	
0.75000	136.929892	0.191529	53.558138
.000000	16.067442	0.056989	
1.00000	136.929892	0.191529	53.558138
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5016

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1571.630	-0.478280	-133.701592
.000000 -160.441910 -0.573593
0.25000 -1571.630 -0.478280 -133.701592
.000000 -120.331432 -0.430122
0.50000 -1571.630 -0.478280 -133.701592
.000000 -80.220955 -0.286560
0.75000 -1571.630 -0.478280 -133.701592
.000000 -40.110477 -0.143677
1.00000 -1571.630 -0.478280 -133.701592
.000000 .000000 .000000

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	186.867274	0.277751	77.670446
.000000	93.204535	0.333404	
0.25000	186.867274	0.277751	77.670446
.000000	69.903401	0.249996	
0.50000	186.867274	0.277751	77.670446
.000000	46.602267	0.166156	
0.75000	186.867274	0.277751	77.670446
.000000	23.301134	0.082610	
1.00000	186.867274	0.277751	77.670446
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1651.552	-0.601115	-168.023492
.000000	-201.628191	-0.720445	
0.25000	-1651.552	-0.601115	-168.023492
.000000	-151.221143	-0.539900	
0.50000	-1651.552	-0.601115	-168.023492
.000000	-100.814095	-0.359377	
0.75000	-1651.552	-0.601115	-168.023492
.000000	-50.407048	-0.179595	
1.00000	-1651.552	-0.601115	-168.023492
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	201.842600	0.314885	88.075219
.000000	105.690263	0.377714	
0.25000	201.842600	0.314885	88.075219
.000000	79.267697	0.283141	
0.50000	201.842600	0.314885	88.075219
.000000	52.845132	0.188134	
0.75000	201.842600	0.314885	88.075219
.000000	26.422566	0.093396	
1.00000	201.842600	0.314885	88.075219
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1559.014	-0.566317	-158.314055
.000000	-189.976866	-0.678771	
0.25000	-1559.014	-0.566317	-158.314055
.000000	-142.482649	-0.508686	
0.50000	-1559.014	-0.566317	-158.314055
.000000	-94.988433	-0.338568	
0.75000	-1559.014	-0.566317	-158.314055
.000000	-47.494216	-0.168979	
1.00000	-1559.014	-0.566317	-158.314055
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	79.215619	0.052917	14.808209
.000000	17.769851	0.062844	
0.25000	79.215619	0.052917	14.808209
.000000	13.327388	0.046789	
0.50000	79.215619	0.052917	14.808209
.000000	8.884926	0.030880	
0.75000	79.215619	0.052917	14.808209
.000000	4.442463	0.014956	
1.00000	79.215619	0.052917	14.808209
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5017

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-146.611768	-0.176264	-49.289181
.000000	-32.147017	-0.211367	
0.25000	-146.611768	-0.176264	-49.289181
.000000	-44.360263	-0.158477	
0.50000	-146.611768	-0.176264	-49.289181
.000000	-29.573509	-0.105457	
0.75000	-146.611768	-0.176264	-49.289181
.000000	-14.786754	-0.052554	
1.00000	-146.611768	-0.176264	-49.289181
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	127.251170	0.415734	116.220329
.000000	139.464394	0.498727	
0.25000	127.251170	0.415734	116.220329
.000000	104.598296	0.373349	
0.50000	127.251170	0.415734	116.220329
.000000	69.732197	0.248603	
0.75000	127.251170	0.415734	116.220329
.000000	34.866099	0.123579	
1.00000	127.251170	0.415734	116.220329
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-752.331879	-0.195220	-54.589476
.000000	-65.507371	-0.233875	
0.25000	-752.331879	-0.195220	-54.589476
.000000	-49.130528	-0.175357	
0.50000	-752.331879	-0.195220	-54.589476
.000000	-32.753685	-0.116811	
0.75000	-752.331879	-0.195220	-54.589476
.000000	-16.376843	-0.058020	
1.00000	-752.331879	-0.195220	-54.589476
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	176.460910	0.239360	66.943926
.000000	80.332711	0.286966	
0.25000	176.460910	0.239360	66.943926
.000000	60.249534	0.214496	
0.50000	176.460910	0.239360	66.943926
.000000	40.166356	0.142646	
0.75000	176.460910	0.239360	66.943926
.000000	20.083178	0.070566	
1.00000	176.460910	0.239360	66.943926
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1410.606	-0.355279	-99.343873
.000000	-119.212647	-0.425709	
0.25000	-1410.606	-0.355279	-99.343873
.000000	-89.409485	-0.319258	
0.50000	-1410.606	-0.355279	-99.343873
.000000	-59.606324	-0.213121	
0.75000	-1410.606	-0.355279	-99.343873
.000000	-29.803162	-0.106617	
1.00000	-1410.606	-0.355279	-99.343873
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	199.794300	0.232818	65.112810
.000000	78.135372	0.279149	
0.25000	199.794300	0.232818	65.112810
.000000	58.601529	0.208623	
0.50000	199.794300	0.232818	65.112810
.000000	39.067686	0.138712	
0.75000	199.794300	0.232818	65.112810
.000000	19.533843	0.068626	
1.00000	199.794300	0.232818	65.112810
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5018

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1500.863	-0.693822	-193.959344
.000000	-232.751213	-0.831616	
0.25000	-1500.863	-0.693822	-193.959344
.000000	-174.563410	-0.623410	
0.50000	-1500.863	-0.693822	-193.959344
.000000	-116.375606	-0.415604	
0.75000	-1500.863	-0.693822	-193.959344
.000000	-58.187803	-0.207484	
1.00000	-1500.863	-0.693822	-193.959344
.000000	.000000	.000000	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	95.251342	0.361377	101.002718
.000000	121.203262	0.433599	
0.25000	95.251342	0.361377	101.002718
.000000	90.902447	0.325120	
0.50000	95.251342	0.361377	101.002718
.000000	60.601631	0.216628	
0.75000	95.251342	0.361377	101.002718
.000000	30.300816	0.108068	
1.00000	95.251342	0.361377	101.002718
.000000	.000000	.000000	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-920.204636	-0.525104	-146.761481
.000000	-176.113777	-0.630105	
0.25000	-920.204636	-0.525104	-146.761481
.000000	-132.085333	-0.472574	
0.50000	-920.204636	-0.525104	-146.761481
.000000	-88.056888	-0.315019	
0.75000	-920.204636	-0.525104	-146.761481
.000000	-44.028444	-0.157425	
1.00000	-920.204636	-0.525104	-146.761481
.000000	.000000	.000000	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	206.168433	0.539164	150.710285
.000000	180.852342	0.647394	
0.25000	206.168433	0.539164	150.710285
.000000	135.639257	0.485109	
0.50000	206.168433	0.539164	150.710285
.000000	90.426171	0.322944	
0.75000	206.168433	0.539164	150.710285
.000000	45.213086	0.160693	
1.00000	206.168433	0.539164	150.710285
.000000	.000000	.000000	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1651.552	-0.693822	-193.959344
.000000	-232.751213	-0.831616	
0.25000	-1651.552	-0.693822	-193.959344
.000000	-174.563410	-0.623410	
0.50000	-1651.552	-0.693822	-193.959344
.000000	-116.375606	-0.415604	
0.75000	-1651.552	-0.693822	-193.959344
.000000	-58.187803	-0.207484	
1.00000	-1651.552	-0.693822	-193.959344
.000000	.000000	.000000	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	206.168433	0.539164	150.710285
.000000	180.852342	0.647394	
0.25000	206.168433	0.539164	150.710285
.000000	135.639257	0.485109	
0.50000	206.168433	0.539164	150.710285
.000000	90.426171	0.322944	
0.75000	206.168433	0.539164	150.710285
.000000	45.213086	0.160693	
1.00000	206.168433	0.539164	150.710285
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5019

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1651.552	-0.693822	-193.959344
.000000	-232.751213	-0.831616	
0.25000	-1651.552	-0.693822	-193.959344
.000000	-174.563410	-0.623410	
0.50000	-1651.552	-0.693822	-193.959344
.000000	-116.375606	-0.415604	
0.75000	-1651.552	-0.693822	-193.959344
.000000	-58.187803	-0.207484	
1.00000	-1651.552	-0.693822	-193.959344
.000000	.000000	.000000	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	206.168433	0.539164	150.710285
.000000	180.852342	0.647394	
0.25000	206.168433	0.539164	150.710285
.000000	135.639257	0.485109	
0.50000	206.168433	0.539164	150.710285
.000000	90.426171	0.322944	
0.75000	206.168433	0.539164	150.710285
.000000	45.213086	0.160693	
1.00000	206.168433	0.539164	150.710285
.000000	.000000	.000000	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1651.552	-0.693822	-193.959344
.000000	-232.751213	-0.831616	
0.25000	-1651.552	-0.693822	-193.959344
.000000	-174.563410	-0.623410	
0.50000	-1651.552	-0.693822	-193.959344
.000000	-116.375606	-0.415604	
0.75000	-1651.552	-0.693822	-193.959344
.000000	-58.187803	-0.207484	
1.00000	-1651.552	-0.693822	-193.959344
.000000	.000000	.000000	

ELEM 492 ========== LENGTH = 1.200000

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	38.793035	0.501660	63.336687
.000000	76.004024	0.601992	
0.25000	38.793035	0.501660	63.336687
.000000	57.003018	0.451494	
0.50000	38.793035	0.501660	63.336687
.000000	38.002012	0.300996	
0.75000	38.793035	0.501660	63.336687
.000000	19.001006	0.150498	
1.00000	38.793035	0.501660	63.336687
.000000	.000000	.000000	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-95.564735	-1.420721	-22.364356
.000000	-26.937227	-1.704865	
0.25000	-95.564735	-1.420721	-22.364356
.000000	-20.127920	-1.278648	
0.50000	-95.564735	-1.420721	-22.364356
.000000	-13.418614	-0.852432	
0.75000	-95.564735	-1.420721	-22.364356
.000000	-6.709307	-0.426216	
1.00000	-95.564735	-1.420721	-22.364356
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	49.757440	3.122486	70.962191
.000000	85.154629	3.746984	
0.25000	49.757440	3.122486	70.962191
.000000	63.865972	2.810238	
0.50000	49.757440	3.122486	70.962191
.000000	42.577314	1.873492	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5020

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	49.757440	3.122486	70.962191
.000000	21.288657	0.936749	
1.00000	49.757440	3.122486	70.962191
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-379.275706	-1.591770	-139.202568
.000000	-167.043081	-1.910124	
0.25000	-379.275706	-1.591770	-139.202568
.000000	-125.282311	-1.432593	
0.50000	-379.275706	-1.591770	-139.202568
.000000	-83.521541	-0.955062	
0.75000	-379.275706	-1.591770	-139.202568
.000000	-41.760770	-0.477521	
1.00000	-379.275706	-1.591770	-139.202568
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	66.581074	2.553928	69.065876
.000000	82.879052	3.064714	
0.25000	66.581074	2.553928	69.065876
.000000	62.159289	2.298535	
0.50000	66.581074	2.553928	69.065876
.000000	41.439526	1.532357	
0.75000	66.581074	2.553928	69.065876
.000000	20.719763	0.766170	
1.00000	66.581074	2.553928	69.065876
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-806.648793	-1.549233	-113.855851
.000000	-136.627021	-1.859080	
0.25000	-806.648793	-1.549233	-113.855851
.000000	-102.470266	-1.394310	
0.50000	-806.648793	-1.549233	-113.855851
.000000	-68.313511	-0.929540	
0.75000	-806.648793	-1.549233	-113.855851
.000000	-34.156755	-0.464746	
1.00000	-806.648793	-1.549233	-113.855851
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	72.765336	2.425417	119.066977
.000000	142.880373	2.910501	
0.25000	72.765336	2.425417	119.066977
.000000	107.160280	2.182875	
0.50000	72.765336	2.425417	119.066977
.000000	71.440186	1.455250	
0.75000	72.765336	2.425417	119.066977
.000000	35.720093	0.727625	
1.00000	72.765336	2.425417	119.066977
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-861.496172	-2.670820	-108.126741
.000000	-129.752089	-3.204984	
0.25000	-861.496172	-2.670820	-108.126741
.000000	-97.314067	-2.403738	
0.50000	-861.496172	-2.670820	-108.126741
.000000	-64.876045	-1.602492	
0.75000	-861.496172	-2.670820	-108.126741
.000000	-32.438022	-0.801224	
1.00000	-861.496172	-2.670820	-108.126741
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	25.558236	2.879587	10.579323
.000000	12.695188	3.455505	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5021

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	25.558236	2.879587	10.579323
.000000	9.521391	2.591629	
0.50000	25.558236	2.879587	10.579323
.000000	6.347594	1.727765	
0.75000	25.558236	2.879587	10.579323
.000000	3.173797	0.863882	
1.00000	25.558236	2.879587	10.579323
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-440.088097	-0.237307	-128.373958

.000000 -154.048750 -0.284769
0.25000 -440.088097 -0.237307 -128.373958
.000000 -115.536563 -0.213577
0.50000 -440.088097 -0.237307 -128.373958
.000000 -77.024375 -0.142384
0.75000 -440.088097 -0.237307 -128.373958
.000000 -38.512188 -0.071180
1.00000 -440.088097 -0.237307 -128.373958
.000000 .000000 .000000

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	48.742850	2.490569	62.732897
.000000	75.279477	2.988683	
0.25000	48.742850	2.490569	62.732897
.000000	56.459607	2.241512	
0.50000	48.742850	2.490569	62.732897
.000000	37.639738	1.494341	
0.75000	48.742850	2.490569	62.732897
.000000	18.819869	0.747171	
1.00000	48.742850	2.490569	62.732897
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-913.122950	-1.407177	-111.031257
.000000	-133.237508	-1.688612	
0.25000	-913.122950	-1.407177	-111.031257
.000000	-99.928131	-1.266459	
0.50000	-913.122950	-1.407177	-111.031257
.000000	-66.618754	-0.844306	
0.75000	-913.122950	-1.407177	-111.031257
.000000	-33.309377	-0.422124	
1.00000	-913.122950	-1.407177	-111.031257
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	65.997243	3.296309	82.919208
.000000	99.503050	3.955571	
0.25000	65.997243	3.296309	82.919208
.000000	74.627287	2.966640	
0.50000	65.997243	3.296309	82.919208
.000000	49.751525	1.977760	
0.75000	65.997243	3.296309	82.919208
.000000	24.875762	0.988880	
1.00000	65.997243	3.296309	82.919208
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-927.362856	-1.859981	-146.951684
.000000	-176.342020	-2.231977	
0.25000	-927.362856	-1.859981	-146.951684
.000000	-132.256515	-1.673983	
0.50000	-927.362856	-1.859981	-146.951684
.000000	-88.171010	-1.115988	
0.75000	-927.362856	-1.859981	-146.951684
.000000	-44.085505	-0.557971	
1.00000	-927.362856	-1.859981	-146.951684
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5022

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	72.365071	3.114479	86.156418
.000000	103.387702	3.737375	
0.25000	72.365071	3.114479	86.156418
.000000	77.540776	2.802999	
0.50000	72.365071	3.114479	86.156418
.000000	51.693851	1.868666	
0.75000	72.365071	3.114479	86.156418
.000000	25.846925	0.934333	
1.00000	72.365071	3.114479	86.156418
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-855.298138	-1.932595	-138.845580
.000000	-167.614696	-2.311915	
0.25000	-855.298138	-1.932595	-138.845580
.000000	-124.961022	-1.739336	
0.50000	-855.298138	-1.932595	-138.845580
.000000	-83.307348	-1.159557	
0.75000	-855.298138	-1.932595	-138.845580
.000000	-41.653674	-0.579757	
1.00000	-855.298138	-1.932595	-138.845580
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.655730	0.664749	9.689487
.000000	11.627384	0.797699	
0.25000	26.655730	0.664749	9.689487
.000000	8.720538	0.598274	
0.50000	26.655730	0.664749	9.689487
.000000	5.813692	0.398849	
0.75000	26.655730	0.664749	9.689487
.000000	2.906846	0.199425	
1.00000	26.655730	0.664749	9.689487
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-88.931537	-0.217347	-29.634961
.000000	-35.561954	-0.260817	
0.25000	-88.931537	-0.217347	-29.634961
.000000	-26.671465	-0.195613	
0.50000	-88.931537	-0.217347	-29.634961
.000000	-17.780977	-0.130330	
0.75000	-88.931537	-0.217347	-29.634961
.000000	-8.890488	-0.065090	
1.00000	-88.931537	-0.217347	-29.634961
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	47.178021	1.015590	98.407054
.000000	118.088465	1.218707	
0.25000	47.178021	1.015590	98.407054
.000000	88.566349	0.914031	
0.50000	47.178021	1.015590	98.407054
.000000	59.044232	0.609354	
0.75000	47.178021	1.015590	98.407054
.000000	29.522116	0.304677	
1.00000	47.178021	1.015590	98.407054
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-431.672977	-2.207392	-45.275670
.000000	-54.330804	-2.648871	
0.25000	-431.672977	-2.207392	-45.275670
.000000	-40.748103	-1.986653	
0.50000	-431.672977	-2.207392	-45.275670
.000000	-27.165402	-1.324322	
0.75000	-431.672977	-2.207392	-45.275670
.000000	-13.582701	-0.662115	
1.00000	-431.672977	-2.207392	-45.275670
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5023

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	64.251093	1.650163	56.800302
.000000	68.160363	1.980196	
0.25000	64.251093	1.650163	56.800302
.000000	51.120272	1.485147	
0.50000	64.251093	1.650163	56.800302
.000000	34.080181	0.990098	
0.75000	64.251093	1.650163	56.800302
.000000	17.040091	0.495049	
1.00000	64.251093	1.650163	56.800302
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-822.289287	-1.274101	-73.565402
.000000	-88.278482	-1.528922	
0.25000	-822.289287	-1.274101	-73.565402
.000000	-66.209862	-1.146691	
0.50000	-822.289287	-1.274101	-73.565402
.000000	-44.139241	-0.764358	
0.75000	-822.289287	-1.274101	-73.565402
.000000	-22.069621	-0.382114	
1.00000	-822.289287	-1.274101	-73.565402
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	72.076873	3.588551	60.124196
.000000	72.149035	4.306261	
0.25000	72.076873	3.588551	60.124196
.000000	54.111777	3.229696	
0.50000	72.076873	3.588551	60.124196
.000000	36.074518	2.153103	
0.75000	72.076873	3.588551	60.124196
.000000	18.037259	1.076552	
1.00000	72.076873	3.588551	60.124196
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-839.954411	-1.348660	-159.980022
.000000	-191.976026	-1.618392	
0.25000	-839.954411	-1.348660	-159.980022
.000000	-143.982020	-1.213794	
0.50000	-839.954411	-1.348660	-159.980022
.000000	-95.988013	-0.809110	
0.75000	-839.954411	-1.348660	-159.980022
.000000	-47.994007	-0.404495	
1.00000	-839.954411	-1.348660	-159.980022
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	54.795465	0.675314	131.872219
.000000	158.246663	0.810386	
0.25000	54.795465	0.675314	131.872219
.000000	118.684997	0.607813	
0.50000	54.795465	0.675314	131.872219
.000000	79.123331	0.405196	
0.75000	54.795465	0.675314	131.872219
.000000	39.561666	0.202659	
1.00000	54.795465	0.675314	131.872219
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-179.933178	-2.958058	-30.105949
.000000	-36.127139	-3.549615	
0.25000	-179.933178	-2.958058	-30.105949
.000000	-27.095354	-2.662150	
0.50000	-179.933178	-2.958058	-30.105949
.000000	-18.063570	-1.774689	
0.75000	-179.933178	-2.958058	-30.105949
.000000	-9.031785	-0.887138	
1.00000	-179.933178	-2.958058	-30.105949
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5024

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	67.358061	4.196506	130.538986
.000000	156.646784	5.035799	
0.25000	67.358061	4.196506	130.538986
.000000	117.485088	3.776885	
0.50000	67.358061	4.196506	130.538986
.000000	78.323392	2.518010	
0.75000	67.358061	4.196506	130.538986
.000000	39.161696	1.259022	
1.00000	67.358061	4.196506	130.538986
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-732.380331	-2.928152	-187.083100
.000000	-224.499720	-3.513714	
0.25000	-732.380331	-2.928152	-187.083100
.000000	-168.374790	-2.635222	
0.50000	-732.380331	-2.928152	-187.083100
.000000	-112.249860	-1.756680	
0.75000	-732.380331	-2.928152	-187.083100
.000000	-56.124930	-0.878008	
1.00000	-732.380331	-2.928152	-187.083100
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	90.474249	3.828046	129.162471
.000000	154.994965	4.593613	
0.25000	90.474249	3.828046	129.162471
.000000	116.246224	3.445184	
0.50000	90.474249	3.828046	129.162471
.000000	77.497482	2.296899	
0.75000	90.474249	3.828046	129.162471
.000000	38.748741	1.148330	
1.00000	90.474249	3.828046	129.162471
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1461.029	-2.897275	-170.656870
.000000	-204.788244	-3.476573	
0.25000	-1461.029	-2.897275	-170.656870
.000000	-153.591183	-2.607352	
0.50000	-1461.029	-2.897275	-170.656870
.000000	-102.394122	-1.737996	
0.75000	-1461.029	-2.897275	-170.656870
.000000	-51.197061	-0.868569	
1.00000	-1461.029	-2.897275	-170.656870
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	97.665595	3.625087	173.296847
.000000	207.956216	4.350064	
0.25000	97.665595	3.625087	173.296847
.000000	155.967162	3.262574	
0.50000	97.665595	3.625087	173.296847
.000000	103.978108	2.175171	
0.75000	97.665595	3.625087	173.296847
.000000	51.989054	1.087466	
1.00000	97.665595	3.625087	173.296847
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1575.115	-3.887263	-161.608825
.000000	-193.930590	-4.664574	
0.25000	-1575.115	-3.887263	-161.608825
.000000	-145.447943	-3.498326	
0.50000	-1575.115	-3.887263	-161.608825
.000000	-96.965295	-2.331966	
0.75000	-1575.115	-3.887263	-161.608825
.000000	-48.482648	-1.165382	
1.00000	-1575.115	-3.887263	-161.608825
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5025

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	33.900963	4.024074	14.908244
.000000	17.889893	4.828889	
0.25000	33.900963	4.024074	14.908244
.000000	13.417419	3.621651	
0.50000	33.900963	4.024074	14.908244
.000000	8.944946	2.414471	
0.75000	33.900963	4.024074	14.908244
.000000	4.472473	1.207247	
1.00000	33.900963	4.024074	14.908244
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-782.779579	-0.334410	-179.395945
.000000	-215.275134	-0.401292	
0.25000	-782.779579	-0.334410	-179.395945
.000000	-161.456351	-0.300952	
0.50000	-782.779579	-0.334410	-179.395945
.000000	-107.637567	-0.200565	
0.75000	-782.779579	-0.334410	-179.395945
.000000	-53.818784	-0.100127	
1.00000	-782.779579	-0.334410	-179.395945
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	65.620095	3.585444	72.797240
.000000	87.356688	4.302421	
0.25000	65.620095	3.585444	72.797240
.000000	65.517516	3.226781	
0.50000	65.620095	3.585444	72.797240
.000000	43.678344	2.151536	
0.75000	65.620095	3.585444	72.797240
.000000	21.839172	1.075322	
1.00000	65.620095	3.585444	72.797240
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1598.566	-1.632932	-159.841528
.000000	-191.809833	-1.959475	
0.25000	-1598.566	-1.632932	-159.841528
.000000	-143.857375	-1.469534	
0.50000	-1598.566	-1.632932	-159.841528
.000000	-95.904917	-0.979597	
0.75000	-1598.566	-1.632932	-159.841528
.000000	-47.952458	-0.489388	
1.00000	-1598.566	-1.632932	-159.841528
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	87.663535	4.493787	108.845096
.000000	130.614116	5.392469	
0.25000	87.663535	4.493787	108.845096
.000000	97.960587	4.044253	
0.50000	87.663535	4.493787	108.845096
.000000	65.307058	2.696135	
0.75000	87.663535	4.493787	108.845096
.000000	32.653529	1.347614	
1.00000	87.663535	4.493787	108.845096
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1686.609	-2.441531	-200.336075
.000000	-240.403290	-2.929751	
0.25000	-1686.609	-2.441531	-200.336075
.000000	-180.302468	-2.197197	
0.50000	-1686.609	-2.441531	-200.336075
.000000	-120.201645	-1.464618	
0.75000	-1686.609	-2.441531	-200.336075
.000000	-60.100823	-0.731742	
1.00000	-1686.609	-2.441531	-200.336075
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5026

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	96.246717	4.301264	113.131379
.000000	135.757654	5.161430	
0.25000	96.246717	4.301264	113.131379
.000000	101.818241	3.871060	
0.50000	96.246717	4.301264	113.131379
.000000	67.878827	2.580849	
0.75000	96.246717	4.301264	113.131379
.000000	33.939414	1.290134	
1.00000	96.246717	4.301264	113.131379
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1598.809	-2.537677	-191.753292
.000000	-230.103951	-3.045064	
0.25000	-1598.809	-2.537677	-191.753292
.000000	-172.577963	-2.283636	
0.50000	-1598.809	-2.537677	-191.753292
.000000	-115.051975	-1.522185	
0.75000	-1598.809	-2.537677	-191.753292
.000000	-57.525988	-0.760397	
1.00000	-1598.809	-2.537677	-191.753292
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	45.667500	1.275702	14.192662
.000000	17.031195	1.530928	
0.25000	45.667500	1.275702	14.192662
.000000	12.773396	1.148198	
0.50000	45.667500	1.275702	14.192662
.000000	8.515597	0.765332	
0.75000	45.667500	1.275702	14.192662
.000000	4.257799	0.382596	
1.00000	45.667500	1.275702	14.192662
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-165.051997	-0.318359	-56.871675
.000000	-68.246010	-0.381910	
0.25000	-165.051997	-0.318359	-56.871675
.000000	-51.184507	-0.286394	
0.50000	-165.051997	-0.318359	-56.871675
.000000	-34.123005	-0.190810	
0.75000	-165.051997	-0.318359	-56.871675
.000000	-17.061502	-0.095041	
1.00000	-165.051997	-0.318359	-56.871675
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	63.621459	1.645925	114.698027
.000000	137.637633	1.975125	
0.25000	63.621459	1.645925	114.698027
.000000	103.228224	1.481347	
0.50000	63.621459	1.645925	114.698027
.000000	68.818816	0.987549	
0.75000	63.621459	1.645925	114.698027
.000000	34.409408	0.493801	
1.00000	63.621459	1.645925	114.698027
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-780.725175	-2.572819	-73.376455
.000000	-88.051746	-3.087272	
0.25000	-780.725175	-2.572819	-73.376455
.000000	-66.038809	-2.315374	
0.50000	-780.725175	-2.572819	-73.376455
.000000	-44.025873	-1.543404	
0.75000	-780.725175	-2.572819	-73.376455
.000000	-22.012936	-0.771073	
1.00000	-780.725175	-2.572819	-73.376455
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5027

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	86.660870	2.910805	79.383186
.000000	95.259824	3.492986	
0.25000	86.660870	2.910805	79.383186
.000000	71.444868	2.619721	
0.50000	86.660870	2.910805	79.383186
.000000	47.629912	1.746333	
0.75000	86.660870	2.910805	79.383186
.000000	23.814956	0.873254	
1.00000	86.660870	2.910805	79.383186
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1449.941	-1.780663	-129.765644
.000000	-155.718772	-2.136600	
0.25000	-1449.941	-1.780663	-129.765644
.000000	-116.789079	-1.602256	
0.50000	-1449.941	-1.780663	-129.765644
.000000	-77.859386	-1.067951	
0.75000	-1449.941	-1.780663	-129.765644
.000000	-38.929693	-0.533349	
1.00000	-1449.941	-1.780663	-129.765644
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	96.282414	5.048526	87.229676
.000000	104.675611	6.058210	
0.25000	96.282414	5.048526	87.229676
.000000	78.506709	4.543668	
0.50000	96.282414	5.048526	87.229676
.000000	52.337806	3.029011	
0.75000	96.282414	5.048526	87.229676
.000000	26.168903	1.514744	
1.00000	96.282414	5.048526	87.229676
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1542.838	-1.956670	-225.066698
.000000	-270.080038	-2.347839	
0.25000	-1542.838	-1.956670	-225.066698
.000000	-202.560029	-1.760844	
0.50000	-1542.838	-1.956670	-225.066698
.000000	-135.040019	-1.173569	
0.75000	-1542.838	-1.956670	-225.066698
.000000	-67.520010	-0.586294	
1.00000	-1542.838	-1.956670	-225.066698
.000000	.000000	.000000	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	72.765336	3.588551	119.066977
.000000	142.880373	4.306261	
0.25000	72.765336	3.588551	119.066977
.000000	107.160280	3.229696	
0.50000	72.765336	3.588551	119.066977
.000000	71.440186	2.153103	
0.75000	72.765336	3.588551	119.066977
.000000	35.720093	1.076552	
1.00000	72.765336	3.588551	119.066977
.000000	.000000	.000000	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-927.362856	-2.670820	-159.980022
.000000	-191.976026	-3.204984	
0.25000	-927.362856	-2.670820	-159.980022
.000000	-143.982020	-2.403738	
0.50000	-927.362856	-2.670820	-159.980022
.000000	-95.988013	-1.602492	
0.75000	-927.362856	-2.670820	-159.980022
.000000	-47.994007	-0.801224	
1.00000	-927.362856	-2.670820	-159.980022
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5028

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	97.665595	5.048526	173.296847
.000000	207.956216	6.058210	
0.25000	97.665595	5.048526	173.296847
.000000	155.967162	4.543668	
0.50000	97.665595	5.048526	173.296847
.000000	103.978108	3.029011	
0.75000	97.665595	5.048526	173.296847
.000000	51.989054	1.514744	
1.00000	97.665595	5.048526	173.296847
.000000	.000000	.000000	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1686.609	-3.887263	-225.066698
.000000	-270.080038	-4.664574	
0.25000	-1686.609	-3.887263	-225.066698
.000000	-202.560029	-3.498326	
0.50000	-1686.609	-3.887263	-225.066698
.000000	-135.040019	-2.331966	
0.75000	-1686.609	-3.887263	-225.066698
.000000	-67.520010	-1.165382	
1.00000	-1686.609	-3.887263	-225.066698
.000000	.000000	.000000	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	97.665595	5.048526	173.296847
.000000	207.956216	6.058210	
0.25000	97.665595	5.048526	173.296847
.000000	155.967162	4.543668	
0.50000	97.665595	5.048526	173.296847
.000000	103.978108	3.029011	
0.75000	97.665595	5.048526	173.296847
.000000	51.989054	1.514744	
1.00000	97.665595	5.048526	173.296847
.000000	.000000	.000000	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1686.609	-3.887263	-225.066698
.000000	-270.080038	-4.664574	
0.25000	-1686.609	-3.887263	-225.066698
.000000	-202.560029	-3.498326	
0.50000	-1686.609	-3.887263	-225.066698
.000000	-135.040019	-2.331966	
0.75000	-1686.609	-3.887263	-225.066698
.000000	-67.520010	-1.165382	
1.00000	-1686.609	-3.887263	-225.066698
.000000	.000000	.000000	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	97.665595	5.048526	173.296847
.000000	207.956216	6.058210	
0.25000	97.665595	5.048526	173.296847
.000000	155.967162	4.543668	
0.50000	97.665595	5.048526	173.296847
.000000	103.978108	3.029011	
0.75000	97.665595	5.048526	173.296847
.000000	51.989054	1.514744	
1.00000	97.665595	5.048526	173.296847
.000000	.000000	.000000	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1686.609	-3.887263	-225.066698
.000000	-270.080038	-4.664574	
0.25000	-1686.609	-3.887263	-225.066698
.000000	-202.560029	-3.498326	
0.50000	-1686.609	-3.887263	-225.066698
.000000	-135.040019	-2.331966	
0.75000	-1686.609	-3.887263	-225.066698
.000000	-67.520010	-1.165382	
1.00000	-1686.609	-3.887263	-225.066698
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5029

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 493 ========== LENGTH = 1.100000

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	22.640802	0.801439	99.592262
.000000	109.551488	0.881583	
0.25000	22.640802	0.801439	99.592262
.000000	82.163616	0.661187	
0.50000	22.640802	0.801439	99.592262
.000000	54.775744	0.440792	
0.75000	22.640802	0.801439	99.592262
.000000	27.387872	0.220396	
1.00000	22.640802	0.801439	99.592262
.000000	.000000	.000000	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-61.626413	-4.802924	-16.618449
.000000	-18.280293	-5.283216	
0.25000	-61.626413	-4.802924	-16.618449
.000000	-13.710220	-3.962412	
0.50000	-61.626413	-4.802924	-16.618449
.000000	-9.140147	-2.641608	
0.75000	-61.626413	-4.802924	-16.618449
.000000	-4.570073	-1.320803	
1.00000	-61.626413	-4.802924	-16.618449
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	36.157323	5.436741	113.264391
.000000	124.590831	5.980415	
0.25000	36.157323	5.436741	113.264391
.000000	93.443123	4.485311	
0.50000	36.157323	5.436741	113.264391
.000000	62.295415	2.990207	
0.75000	36.157323	5.436741	113.264391
.000000	31.147708	1.495104	
1.00000	36.157323	5.436741	113.264391
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-318.765486	-5.462274	-112.734933
.000000	-124.008426	-6.008502	
0.25000	-318.765486	-5.462274	-112.734933
.000000	-93.006320	-4.506376	
0.50000	-318.765486	-5.462274	-112.734933
.000000	-62.004213	-3.004251	
0.75000	-318.765486	-5.462274	-112.734933
.000000	-31.002107	-1.502116	
1.00000	-318.765486	-5.462274	-112.734933
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	47.291795	4.188165	105.074841
.000000	115.582325	4.606964	
0.25000	47.291795	4.188165	105.074841
.000000	86.686744	3.455223	
0.50000	47.291795	4.188165	105.074841
.000000	57.791163	2.303482	
0.75000	47.291795	4.188165	105.074841
.000000	28.895581	1.151741	
1.00000	47.291795	4.188165	105.074841
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-691.293672	-5.067326	-86.844774
.000000	-95.529251	-5.574059	
0.25000	-691.293672	-5.067326	-86.844774
.000000	-71.646938	-4.180544	
0.50000	-691.293672	-5.067326	-86.844774
.000000	-47.764626	-2.787029	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5030

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-691.293672	-5.067326	-86.844774
.000000	-23.882313	-1.393420	
1.00000	-691.293672	-5.067326	-86.844774
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	50.773403	4.098314	139.787413
.000000	153.766155	4.508131	
0.25000	50.773403	4.098314	139.787413
.000000	115.324616	3.381098	
0.50000	50.773403	4.098314	139.787413
.000000	76.883077	2.254068	
0.75000	50.773403	4.098314	139.787413
.000000	38.441539	1.127034	
1.00000	50.773403	4.098314	139.787413
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-749.659824	-6.741370	-84.981645
.000000	-93.479810	-7.415507	
0.25000	-749.659824	-6.741370	-84.981645
.000000	-70.109857	-5.561631	
0.50000	-749.659824	-6.741370	-84.981645
.000000	-46.739905	-3.707759	
0.75000	-749.659824	-6.741370	-84.981645
.000000	-23.369952	-1.853802	
1.00000	-749.659824	-6.741370	-84.981645
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.744929	5.319990	10.048605
.000000	5.853466	5.851989	
0.25000	17.744929	5.319990	10.048605
.000000	8.290099	4.388992	
0.50000	17.744929	5.319990	10.048605
.000000	5.526733	2.925994	
0.75000	17.744929	5.319990	10.048605
.000000	2.763366	1.462997	
1.00000	17.744929	5.319990	10.048605
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-394.148071	-0.484603	-110.314014
.000000	-121.345415	-0.533063	
0.25000	-394.148071	-0.484603	-110.314014
.000000	-91.009061	-0.399797	
0.50000	-394.148071	-0.484603	-110.314014
.000000	-60.672708	-0.266532	
0.75000	-394.148071	-0.484603	-110.314014
.000000	-30.336354	-0.133223	
1.00000	-394.148071	-0.484603	-110.314014
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	33.247854	4.141301	51.657107
.000000	56.822818	4.555412	
0.25000	33.247854	4.141301	51.657107
.000000	42.617113	3.416559	
0.50000	33.247854	4.141301	51.657107
.000000	28.411409	2.277706	
0.75000	33.247854	4.141301	51.657107
.000000	14.205704	1.138853	
1.00000	33.247854	4.141301	51.657107
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-809.691679	-2.491209	-85.873005
.000000	-94.460306	-2.740330	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5031

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-809.691679	-2.491209	-85.873005
.000000	-70.845229	-2.055248	
0.50000	-809.691679	-2.491209	-85.873005
.000000	-47.230153	-1.370165	
0.75000	-809.691679	-2.491209	-85.873005
.000000	-23.615076	-0.684979	
1.00000	-809.691679	-2.491209	-85.873005
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	46.139086	4.881611	97.459747
.000000	107.205722	5.369755	
0.25000	46.139086	4.881611	97.459747
.000000	80.404291	4.027316	
0.50000	46.139086	4.881611	97.459747
.000000	53.602861	2.684878	
0.75000	46.139086	4.881611	97.459747
.000000	26.801430	1.342439	
1.00000	46.139086	4.881611	97.459747
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-812.857058	-4.700082	-101.223906
.000000	-111.346296	-5.170090	
0.25000	-812.857058	-4.700082	-101.223906
.000000	-83.509722	-3.877567	
0.50000	-812.857058	-4.700082	-101.223906
.000000	-55.673148	-2.585045	
0.75000	-812.857058	-4.700082	-101.223906
.000000	-27.836574	-1.292428	
1.00000	-812.857058	-4.700082	-101.223906
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	49.783683	4.973470	95.542485
.000000	105.096734	5.470799	
0.25000	49.783683	4.973470	95.542485
.000000	78.822551	4.103100	
0.50000	49.783683	4.973470	95.542485
.000000	52.548367	2.735400	
0.75000	49.783683	4.973470	95.542485
.000000	26.274184	1.367700	
1.00000	49.783683	4.973470	95.542485
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-746.009178	-4.607620	-103.128672
.000000	-113.441539	-5.068382	
0.25000	-746.009178	-4.607620	-103.128672
.000000	-85.081155	-3.801287	
0.50000	-746.009178	-4.607620	-103.128672
.000000	-56.720770	-2.534191	
0.75000	-746.009178	-4.607620	-103.128672
.000000	-28.360385	-1.267012	
1.00000	-746.009178	-4.607620	-103.128672
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	17.325904	1.802089	6.225199
.000000	6.847719	1.982298	
0.25000	17.325904	1.802089	6.225199
.000000	5.135790	1.486724	
0.50000	17.325904	1.802089	6.225199
.000000	3.423860	0.991149	
0.75000	17.325904	1.802089	6.225199
.000000	1.711930	0.495575	
1.00000	17.325904	1.802089	6.225199
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5032

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-52.351476	-0.300216	-37.367685
.000000	-41.104454	-0.330237	
0.25000	-52.351476	-0.300216	-37.367685
.000000	-30.828340	-0.247678	
0.50000	-52.351476	-0.300216	-37.367685
.000000	-20.552227	-0.165119	
0.75000	-52.351476	-0.300216	-37.367685
.000000	-10.276113	-0.082542	
1.00000	-52.351476	-0.300216	-37.367685
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	30.964562	2.273480	76.865927
.000000	84.552520	2.500828	
0.25000	30.964562	2.273480	76.865927
.000000	63.414390	1.875621	
0.50000	30.964562	2.273480	76.865927
.000000	42.276260	1.250414	
0.75000	30.964562	2.273480	76.865927
.000000	21.138130	0.625192	
1.00000	30.964562	2.273480	76.865927
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-356.967028	-3.706927	-47.142323
.000000	-51.856555	-4.077619	
0.25000	-356.967028	-3.706927	-47.142323
.000000	-38.892416	-3.058214	
0.50000	-356.967028	-3.706927	-47.142323
.000000	-25.928278	-2.038810	
0.75000	-356.967028	-3.706927	-47.142323
.000000	-12.964139	-1.019400	
1.00000	-356.967028	-3.706927	-47.142323
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	42.813179	3.338260	43.281945
.000000	47.610140	3.672068	
0.25000	42.813179	3.338260	43.281945
.000000	35.707605	2.754051	
0.50000	42.813179	3.338260	43.281945
.000000	23.805070	1.836034	
0.75000	42.813179	3.338260	43.281945
.000000	11.902535	0.918017	
1.00000	42.813179	3.338260	43.281945
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-701.306912	-2.087310	-69.221337
.000000	-76.143471	-2.296041	
0.25000	-701.306912	-2.087310	-69.221337
.000000	-57.107603	-1.722031	
0.50000	-701.306912	-2.087310	-69.221337
.000000	-38.071735	-1.148020	
0.75000	-701.306912	-2.087310	-69.221337
.000000	-19.035868	-0.573911	
1.00000	-701.306912	-2.087310	-69.221337
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	49.023911	6.285150	61.865146
.000000	68.051660	6.913651	
0.25000	49.023911	6.285150	61.865146
.000000	51.038745	5.185238	
0.50000	49.023911	6.285150	61.865146
.000000	34.025830	3.456825	
0.75000	49.023911	6.285150	61.865146
.000000	17.012915	1.728413	
1.00000	49.023911	6.285150	61.865146
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5033

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-724.903339	-2.983501	-130.327338
.000000	-143.360071	-3.261851	
0.25000	-724.903339	-2.983501	-130.327338
.000000	-107.520054	-2.461388	
0.50000	-724.903339	-2.983501	-130.327338
.000000	-71.680036	-1.640925	
0.75000	-724.903339	-2.983501	-130.327338
.000000	-35.840018	-0.820381	
1.00000	-724.903339	-2.983501	-130.327338
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	44.498303	1.520181	148.275293
.000000	163.102822	1.672200	
0.25000	44.498303	1.520181	148.275293
.000000	122.327117	1.254150	
0.50000	44.498303	1.520181	148.275293
.000000	81.551411	0.836100	
0.75000	44.498303	1.520181	148.275293
.000000	40.775706	0.417946	
1.00000	44.498303	1.520181	148.275293
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-81.778632	-7.150706	-31.522112
.000000	-34.674324	-7.865776	
0.25000	-81.778632	-7.150706	-31.522112
.000000	-26.005743	-5.899332	
0.50000	-81.778632	-7.150706	-31.522112
.000000	-17.337162	-3.932888	
0.75000	-81.778632	-7.150706	-31.522112
.000000	-8.668581	-1.966174	
1.00000	-81.778632	-7.150706	-31.522112
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	54.812553	5.824653	168.593452
.000000	185.452797	6.407118	
0.25000	54.812553	5.824653	168.593452
.000000	139.089598	4.805339	
0.50000	54.812553	5.824653	168.593452
.000000	92.726399	3.203583	
0.75000	54.812553	5.824653	168.593452
.000000	46.363199	1.601754	
1.00000	54.812553	5.824653	168.593452
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-360.039373	-8.130567	-120.778585
.000000	-132.856443	-8.943623	
0.25000	-360.039373	-8.130567	-120.778585
.000000	-99.642332	-6.707718	
0.50000	-360.039373	-8.130567	-120.778585
.000000	-66.428222	-4.471744	
0.75000	-360.039373	-8.130567	-120.778585
.000000	-33.214111	-2.235499	
1.00000	-360.039373	-8.130567	-120.778585
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	71.550096	5.197801	160.436990
.000000	176.480689	5.717563	
0.25000	71.550096	5.197801	160.436990
.000000	132.360517	4.288204	
0.50000	71.550096	5.197801	160.436990
.000000	88.240344	2.858748	
0.75000	71.550096	5.197601	160.436990
.000000	44.120172	1.429114	
1.00000	71.550096	5.197801	160.436990
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5034

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-732.934121	-7.737214	-107.780325
.000000	-118.558358	-8.510836	
0.25000	-732.934121	-7.737214	-107.780325
.000000	-88.918768	-6.383055	
0.50000	-732.934121	-7.737214	-107.780325
.000000	-59.279179	-4.255171	
0.75000	-732.934121	-7.737214	-107.780325
.000000	-29.639589	-2.127012	
1.00000	-732.934121	-7.737214	-107.780325
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	74.872271	5.050689	172.229043
.000000	189.451948	5.555750	
0.25000	74.872271	5.050689	172.229043
.000000	142.088961	4.166787	
0.50000	74.872271	5.050689	172.229043
.000000	94.725974	2.777798	
0.75000	74.872271	5.050689	172.229043
.000000	47.362987	1.388601	
1.00000	74.872271	5.050689	172.229043
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-785.709301	-8.305896	-104.729853
.000000	-115.202638	-9.136411	
0.25000	-785.709301	-8.305896	-104.729853
.000000	-86.402129	-6.852250	
0.50000	-785.709301	-8.305896	-104.729853
.000000	-57.601419	-4.567970	
0.75000	-785.709301	-8.305896	-104.729853
.000000	-28.800710	-2.283642	
1.00000	-785.709301	-8.305896	-104.729853
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	26.134492	4.743823	16.887090
.000000	18.575799	5.218205	
0.25000	26.134492	4.743823	16.887090
.000000	13.931849	3.913654	
0.50000	26.134492	4.743823	16.887090
.000000	9.287900	2.609103	
0.75000	26.134492	4.743823	16.887090
.000000	4.643950	1.304535	
1.00000	26.134492	4.743823	16.887090
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-397.380513	-0.814395	-98.366758
.000000	-108.203433	-0.895834	
0.25000	-397.380513	-0.814395	-98.366758
.000000	-81.152575	-0.671876	
0.50000	-397.380513	-0.814395	-98.366758
.000000	-54.101717	-0.447917	
0.75000	-397.380513	-0.814395	-98.366758
.000000	-27.050858	-0.223793	
1.00000	-397.380513	-0.814395	-98.366758
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	48.865032	4.179414	50.795800
.000000	55.875380	4.597334	
0.25000	48.865032	4.179414	50.795800
.000000	41.906535	3.447987	

0.50000 48.865032 4.179414 50.795800
.000000 27.937690 2.298623
0.75000 48.865032 4.179414 50.795800
.000000 13.968845 1.149110
1.00000 48.865032 4.179414 50.795800
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5035

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -812.164144 -2.449672 -86.663308
.000000 -95.329639 -2.694516
0.25000 -812.164144 -2.449672 -86.663308
.000000 -71.497229 -2.020830
0.50000 -812.164144 -2.449672 -86.663308
.000000 -47.664819 -1.347072
0.75000 -812.164144 -2.449672 -86.663308
.000000 -23.832410 -0.673146
1.00000 -812.164144 -2.449672 -86.663308
.000000 .000000 .000000

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 68.343242 5.639310 118.274290
.000000 130.101719 6.203231
0.25000 68.343242 5.639310 118.274290
.000000 97.576289 4.652380
0.50000 68.343242 5.639310 118.274290
.000000 65.050860 3.101555
0.75000 68.343242 5.639310 118.274290
.000000 32.525430 1.550528
1.00000 68.343242 5.639310 118.274290
.000000 .000000 .000000

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -847.032329 -5.703881 -116.935355
.000000 -128.628891 -6.274157
0.25000 -847.032329 -5.703881 -116.935355
.000000 -96.471668 -4.705583
0.50000 -847.032329 -5.703881 -116.935355
.000000 -64.314445 -3.136809
0.75000 -847.032329 -5.703881 -116.935355
.000000 -32.157223 -1.567771
1.00000 -847.032329 -5.703881 -116.935355
.000000 .000000 .000000

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 72.592379 5.774130 111.131157
.000000 122.244273 6.351534
0.25000 72.592379 5.774130 111.131157
.000000 91.683205 4.763644
0.50000 72.592379 5.774130 111.131157
.000000 61.122136 3.175578
0.75000 72.592379 5.774130 111.131157
.000000 30.561068 1.587429
1.00000 72.592379 5.774130 111.131157
.000000 .000000 .000000

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -791.323528 -5.359397 -119.730948
.000000 -131.704043 -5.895202
0.25000 -791.323528 -5.359397 -119.730948
.000000 -98.778032 -4.421316
0.50000 -791.323528 -5.359397 -119.730948
.000000 -65.852022 -2.947316
0.75000 -791.323528 -5.359397 -119.730948
.000000 -32.926011 -1.472982
1.00000 -791.323528 -5.359397 -119.730948
.000000 .000000 .000000

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 31.649275 2.404449 8.901743
.000000 9.791917 2.644925
0.25000 31.649275 2.404449 8.901743
.000000 7.343938 1.983625
0.50000 31.649275 2.404449 8.901743
.000000 4.895959 1.322269
0.75000 31.649275 2.404449 8.901743
.000000 2.447979 0.661033
1.00000 31.649275 2.404449 8.901743
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5036

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -64.607139 -0.429294 -49.858074
.000000 -54.845881 -0.472160
0.25000 -64.607139 -0.429294 -49.858074
.000000 -41.132911 -0.354092
0.50000 -64.607139 -0.429294 -49.858074
.000000 -27.421940 -0.235962
0.75000 -64.607139 -0.429294 -49.858074
.000000 -13.710970 -0.117757
1.00000 -64.607139 -0.429294 -49.858074
.000000 .000000 .000000

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 43.414175 2.925233 67.688946
.000000 74.457841 3.217777
0.25000 43.414175 2.925233 67.688946
.000000 55.843381 2.413256
0.50000 43.414175 2.925233 67.688946
.000000 37.228920 1.608643
0.75000 43.414175 2.925233 67.688946
.000000 18.614460 0.804171
1.00000 43.414175 2.925233 67.688946
.000000 .000000 .000000

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -375.442019 -3.264359 -60.656916
.000000 -66.722608 -3.590743
0.25000 -375.442019 -3.264359 -60.656916
.000000 -50.041956 -2.692975
0.50000 -375.442019 -3.264359 -60.656916
.000000 -33.361304 -1.795204
0.75000 -375.442019 -3.264359 -60.656916
.000000 -16.680652 -0.897321
1.00000 -375.442019 -3.264359 -60.656916
.000000 .000000 .000000

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 61.390358 4.237049 49.301450
.000000 54.231595 4.660797
0.25000 61.390358 4.237049 49.301450
.000000 40.673696 3.495498
0.50000 61.390358 4.237049 49.301450
.000000 27.115798 2.330120
0.75000 61.390358 4.237049 49.301450
.000000 13.557899 1.164772
1.00000 61.390358 4.237049 49.301450
.000000 .000000 .000000

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -718.632803 -2.377606 -87.858417
.000000 -96.644259 -2.615201
0.25000 -718.632803 -2.377606 -87.858417
.000000 -72.483194 -1.961229
0.50000 -718.632803 -2.377606 -87.858417
.000000 -48.322130 -1.307280
0.75000 -718.632803 -2.377606 -87.858417
.000000 -24.161065 -0.652991
1.00000 -718.632803 -2.377606 -87.858417
.000000 .000000 .000000

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 71.042379 6.810318 78.308312
.000000 86.139143 7.491380
0.25000 71.042379 6.810318 78.308312
.000000 64.604357 5.618454
0.50000 71.042379 6.810318 78.308312
.000000 43.069571 3.745464
0.75000 71.042379 6.810318 78.308312
.000000 21.534786 1.872472
1.00000 71.042379 6.810318 78.308312
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5037

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -762.447174 -3.776487 -141.217099
.000000 -155.338809 -4.154002
0.25000 -762.447174 -3.776487 -141.217099
.000000 -116.504107 -3.115355
0.50000 -762.447174 -3.776487 -141.217099
.000000 -77.669404 -2.076709
0.75000 -762.447174 -3.776487 -141.217099
.000000 -38.834702 -1.037771
1.00000 -762.447174 -3.776487 -141.217099
.000000 .000000 .000000

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 50.773403 6.285150 139.787413
.000000 153.766155 6.913651
0.25000 50.773403 6.285150 139.787413
.000000 115.324616 5.185238
0.50000 50.773403 6.285150 139.787413
.000000 76.883077 3.456825
0.75000 50.773403 6.285150 139.787413
.000000 38.441539 1.728413
1.00000 50.773403 6.285150 139.787413
.000000 .000000 .000000

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -812.857058 -6.741370 -130.327338
.000000 -143.360071 -7.415507
0.25000 -812.857058 -6.741370 -130.327338
.000000 -107.520054 -5.561631
0.50000 -812.857058 -6.741370 -130.327338
.000000 -71.680036 -3.707759
0.75000 -812.857058 -6.741370 -130.327338
.000000 -35.840018 -1.853802
1.00000 -812.857058 -6.741370 -130.327338
.000000 .000000 .000000

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 74.872271 6.810318 172.229043
.000000 189.451948 7.491380
0.25000 74.872271 6.810318 172.229043
.000000 142.088961 5.618454
0.50000 74.872271 6.810318 172.229043
.000000 94.725974 3.745464
0.75000 74.872271 6.810318 172.229043
.000000 47.362987 1.872472
1.00000 74.872271 6.810318 172.229043
.000000 .000000 .000000

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -847.032329 -8.305896 -141.217099
.000000 -155.338809 -9.136411
0.25000 -847.032329 -8.305896 -141.217099
.000000 -116.504107 -6.852250
0.50000 -847.032329 -8.305896 -141.217099
.000000 -77.669404 -4.567970
0.75000 -847.032329 -8.305896 -141.217099
.000000 -38.834702 -2.283429
1.00000 -847.032329 -8.305896 -141.217099
.000000 .000000 .000000

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 74.872271 6.810318 172.229043
.000000 189.451948 7.491380
0.25000 74.872271 6.810318 172.229043
.000000 142.088961 5.618454
0.50000 74.872271 6.810318 172.229043
.000000 94.725974 3.745464
0.75000 74.872271 6.810318 172.229043
.000000 47.362987 1.872472
1.00000 74.872271 6.810318 172.229043
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5038

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -847.032329 -8.305896 -141.217099
.000000 -155.338809 -9.136411
0.25000 -847.032329 -8.305896 -141.217099
.000000 -116.504107 -6.852250
0.50000 -847.032329 -8.305896 -141.217099
.000000 -77.669404 -4.567970
0.75000 -847.032329 -8.305896 -141.217099
.000000 -38.834702 -2.283429
1.00000 -847.032329 -8.305896 -141.217099
.000000 .000000 .000000

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 74.872271 6.810318 172.229043
.000000 189.451948 7.491380
0.25000 74.872271 6.810318 172.229043
.000000 142.088961 5.618454
0.50000 74.872271 6.810318 172.229043
.000000 94.725974 3.745464
0.75000 74.872271 6.810318 172.229043
.000000 47.362987 1.872472
1.00000 74.872271 6.810318 172.229043
.000000 .000000 .000000

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -847.032329 -8.305896 -141.217099
.000000 -155.338809 -9.136411
0.25000 -847.032329 -8.305896 -141.217099
.000000 -116.504107 -6.852250
0.50000 -847.032329 -8.305896 -141.217099
.000000 -77.669404 -4.567970
0.75000 -847.032329 -8.305896 -141.217099
.000000 -38.834702 -2.283429
1.00000 -847.032329 -8.305896 -141.217099
.000000 .000000 .000000

ELEM 494 ========== LENGTH = 1.100000

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 40.226284 .000000 .000000
.000000 .000000 .000000
0.25000 40.226284 .000000 .000000
.000000 .000000 .000000
0.50000 40.226284 .000000 .000000
.000000 .000000 .000000
0.75000 40.226284 .000000 .000000
.000000 .000000 .000000
1.00000 40.226284 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.539360 .000000 .000000
.000000 .000000 .000000
0.25000 -6.539360 .000000 .000000
.000000 .000000 .000000
0.50000 -6.539360 .000000 .000000
.000000 .000000 .000000
0.75000 -6.539360 .000000 .000000
.000000 .000000 .000000
1.00000 -6.539360 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 71.801368 .000000 .000000
.000000 .000000 .000000
0.25000 71.801368 .000000 .000000
.000000 .000000 .000000
0.50000 71.801368 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5039

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 71.801368 .000000 .000000
.000000 .000000 .000000
1.00000 71.801368 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -13.931230 .000000 .000000
.000000 .000000 .000000
0.25000 -13.931230 .000000 .000000
.000000 .000000 .000000
0.50000 -13.931230 .000000 .000000
.000000 .000000 .000000
0.75000 -13.931230 .000000 .000000
.000000 .000000 .000000
1.00000 -13.931230 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 75.813825 .000000 .000000
.000000 .000000 .000000
0.25000 75.813825 .000000 .000000
.000000 .000000 .000000
0.50000 75.813825 .000000 .000000
.000000 .000000 .000000
0.75000 75.813825 .000000 .000000
.000000 .000000 .000000
1.00000 75.813825 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -65.536967 .000000 .000000
.000000 .000000 .000000
0.25000 -65.536967 .000000 .000000
.000000 .000000 .000000
0.50000 -65.536967 .000000 .000000
.000000 .000000 .000000
0.75000 -65.536967 .000000 .000000
.000000 .000000 .000000
1.00000 -65.536967 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 83.415280 .000000 .000000
.000000 .000000 .000000
0.25000 83.415280 .000000 .000000
.000000 .000000 .000000
0.50000 83.415280 .000000 .000000
.000000 .000000 .000000
0.75000 83.415280 .000000 .000000
.000000 .000000 .000000
1.00000 83.415280 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -264.659594 .000000 .000000
.000000 .000000 .000000
0.25000 -264.659594 .000000 .000000
.000000 .000000 .000000
0.50000 -264.659594 .000000 .000000
.000000 .000000 .000000
0.75000 -264.659594 .000000 .000000
.000000 .000000 .000000
1.00000 -264.659594 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 24.906623 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5040

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 24.906623 .000000 .000000
.000000 .000000 .000000
0.50000 24.906623 .000000 .000000
.000000 .000000 .000000
0.75000 24.906623 .000000 .000000
.000000 .000000 .000000
1.00000 24.906623 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -17.560373 .000000 .000000
.000000 .000000 .000000
0.25000 -17.560373 .000000 .000000
.000000 .000000 .000000
0.50000 -17.560373 .000000 .000000
.000000 .000000 .000000
0.75000 -17.560373 .000000 .000000
.000000 .000000 .000000
1.00000 -17.560373 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 45.978998 .000000 .000000
.000000 .000000 .000000
0.25000 45.978998 .000000 .000000
.000000 .000000 .000000
0.50000 45.978998 .000000 .000000
.000000 .000000 .000000
0.75000 45.978998 .000000 .000000
.000000 .000000 .000000
1.00000 45.978998 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -123.800521 .000000 .000000
.000000 .000000 .000000
0.25000 -123.800521 .000000 .000000
.000000 .000000 .000000
0.50000 -123.800521 .000000 .000000
.000000 .000000 .000000
0.75000 -123.800521 .000000 .000000
.000000 .000000 .000000
1.00000 -123.800521 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 70.726569 .000000 .000000
.000000 .000000 .000000
0.25000 70.726569 .000000 .000000
.000000 .000000 .000000
0.50000 70.726569 .000000 .000000
.000000 .000000 .000000
0.75000 70.726569 .000000 .000000
.000000 .000000 .000000
1.00000 70.726569 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -116.560179 .000000 .000000
.000000 .000000 .000000
0.25000 -116.560179 .000000 .000000
.000000 .000000 .000000
0.50000 -116.560179 .000000 .000000
.000000 .000000 .000000
0.75000 -116.560179 .000000 .000000
.000000 .000000 .000000
1.00000 -116.560179 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5041

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 80.749444 .000000 .000000
.000000 .000000 .000000
0.25000 80.749444 .000000 .000000
.000000 .000000 .000000
0.50000 80.749444 .000000 .000000
.000000 .000000 .000000
0.75000 80.749444 .000000 .000000
.000000 .000000 .000000
1.00000 80.749444 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -397.008698 .000000 .000000
.000000 .000000 .000000
0.25000 -397.008698 .000000 .000000
.000000 .000000 .000000
0.50000 -397.008698 .000000 .000000
.000000 .000000 .000000
0.75000 -397.008698 .000000 .000000
.000000 .000000 .000000
1.00000 -397.008698 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 34.202778 .000000 .000000
.000000 .000000 .000000
0.25000 34.202778 .000000 .000000
.000000 .000000 .000000
0.50000 34.202778 .000000 .000000
.000000 .000000 .000000
0.75000 34.202778 .000000 .000000
.000000 .000000 .000000
1.00000 34.202778 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -529.846349 .000000 .000000
.000000 .000000 .000000
0.25000 -529.846349 .000000 .000000
.000000 .000000 .000000
0.50000 -529.846349 .000000 .000000
.000000 .000000 .000000
0.75000 -529.846349 .000000 .000000
.000000 .000000 .000000
1.00000 -529.846349 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 56.099088 .000000 .000000
.000000 .000000 .000000
0.25000 56.099088 .000000 .000000
.000000 .000000 .000000

0.50000 56.099088 .000000 .000000
.000000 .000000 .000000
0.75000 56.099088 .000000 .000000
.000000 .000000 .000000
1.00000 56.099088 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -681.632495 .000000 .000000
.000000 .000000 .000000
0.25000 -681.632495 .000000 .000000
.000000 .000000 .000000
0.50000 -681.632495 .000000 .000000
.000000 .000000 .000000
0.75000 -681.632495 .000000 .000000
.000000 .000000 .000000
1.00000 -681.632495 .000000 .000000
.000000 .000000 .000000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 65.075773 .000000 .000000
.000000 .000000 .000000
0.25000 65.075773 .000000 .000000
.000000 .000000 .000000
0.50000 65.075773 .000000 .000000
.000000 .000000 .000000
0.75000 65.075773 .000000 .000000
.000000 .000000 .000000
1.00000 65.075773 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -636.762043 .000000 .000000
.000000 .000000 .000000
0.25000 -636.762043 .000000 .000000
.000000 .000000 .000000
0.50000 -636.762043 .000000 .000000
.000000 .000000 .000000
0.75000 -636.762043 .000000 .000000
.000000 .000000 .000000
1.00000 -636.762043 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 80.510365 .000000 .000000
.000000 .000000 .000000
0.25000 80.510365 .000000 .000000
.000000 .000000 .000000
0.50000 80.510365 .000000 .000000
.000000 .000000 .000000
0.75000 80.510365 .000000 .000000
.000000 .000000 .000000
1.00000 80.510365 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -534.857320 .000000 .000000
.000000 .000000 .000000
0.25000 -534.857320 .000000 .000000
.000000 .000000 .000000
0.50000 -534.857320 .000000 .000000
.000000 .000000 .000000
0.75000 -534.857320 .000000 .000000
.000000 .000000 .000000
1.00000 -534.857320 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 53.488921 .000000 .000000
.000000 .000000 .000000
0.25000 53.488921 .000000 .000000
.000000 .000000 .000000
0.50000 53.488921 .000000 .000000
.000000 .000000 .000000
0.75000 53.488921 .000000 .000000
.000000 .000000 .000000
1.00000 53.488921 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -9.660258 .000000 .000000
.000000 .000000 .000000
0.25000 -9.660258 .000000 .000000
.000000 .000000 .000000
0.50000 -9.660258 .000000 .000000
.000000 .000000 .000000
0.75000 -9.660258 .000000 .000000
.000000 .000000 .000000
1.00000 -9.660258 .000000 .000000
.000000 .000000 .000000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 93.574812 .000000 .000000
.000000 .000000 .000000
0.25000 93.574812 .000000 .000000
.000000 .000000 .000000
0.50000 93.574812 .000000 .000000
.000000 .000000 .000000
0.75000 93.574812 .000000 .000000
.000000 .000000 .000000
1.00000 93.574812 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -19.336917 .000000 .000000
.000000 .000000 .000000
0.25000 -19.336917 .000000 .000000
.000000 .000000 .000000
0.50000 -19.336917 .000000 .000000
.000000 .000000 .000000
0.75000 -19.336917 .000000 .000000
.000000 .000000 .000000
1.00000 -19.336917 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 104.226047 .000000 .000000
.000000 .000000 .000000
0.25000 104.226047 .000000 .000000
.000000 .000000 .000000
0.50000 104.226047 .000000 .000000
.000000 .000000 .000000
0.75000 104.226047 .000000 .000000
.000000 .000000 .000000
1.00000 104.226047 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -88.219889 .000000 .000000
.000000 .000000 .000000
0.25000 -88.219889 .000000 .000000
.000000 .000000 .000000
0.50000 -88.219889 .000000 .000000
.000000 .000000 .000000
0.75000 -88.219889 .000000 .000000
.000000 .000000 .000000
1.00000 -88.219889 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 114.106935 .000000 .000000
.000000 .000000 .000000
0.25000 114.106935 .000000 .000000
.000000 .000000 .000000
0.50000 114.106935 .000000 .000000
.000000 .000000 .000000
0.75000 114.106935 .000000 .000000
.000000 .000000 .000000
1.00000 114.106935 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -284.946589 .000000 .000000
.000000 .000000 .000000
0.25000 -284.946589 .000000 .000000
.000000 .000000 .000000
0.50000 -284.946589 .000000 .000000
.000000 .000000 .000000
0.75000 -284.946589 .000000 .000000
.000000 .000000 .000000
1.00000 -284.946589 .000000 .000000
.000000 .000000 .000000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 37.699288 .000000 .000000
.000000 .000000 .000000
0.25000 37.699288 .000000 .000000
.000000 .000000 .000000
0.50000 37.699288 .000000 .000000
.000000 .000000 .000000
0.75000 37.699288 .000000 .000000
.000000 .000000 .000000
1.00000 37.699288 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -20.874558 .000000 .000000
.000000 .000000 .000000
0.25000 -20.874558 .000000 .000000
.000000 .000000 .000000
0.50000 -20.874558 .000000 .000000
.000000 .000000 .000000
0.75000 -20.874558 .000000 .000000
.000000 .000000 .000000
1.00000 -20.874558 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 61.849814 .000000 .000000
.000000 .000000 .000000
0.25000 61.849814 .000000 .000000
.000000 .000000 .000000
0.50000 61.849814 .000000 .000000
.000000 .000000 .000000
0.75000 61.849814 .000000 .000000
.000000 .000000 .000000
1.00000 61.849814 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -144.082618 .000000 .000000
.000000 .000000 .000000
0.25000 -144.082618 .000000 .000000
.000000 .000000 .000000
0.50000 -144.082618 .000000 .000000
.000000 .000000 .000000
0.75000 -144.082618 .000000 .000000
.000000 .000000 .000000
1.00000 -144.082618 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 97.384722 .000000 .000000
.000000 .000000 .000000
0.25000 97.384722 .000000 .000000
.000000 .000000 .000000
0.50000 97.384722 .000000 .000000
.000000 .000000 .000000
0.75000 97.384722 .000000 .000000
.000000 .000000 .000000
1.00000 97.384722 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -137.213958 .000000 .000000
.000000 .000000 .000000
0.25000 -137.213958 .000000 .000000
.000000 .000000 .000000
0.50000 -137.213958 .000000 .000000
.000000 .000000 .000000
0.75000 -137.213958 .000000 .000000
.000000 .000000 .000000
1.00000 -137.213958 .000000 .000000
.000000 .000000 .000000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 111.041004 .000000 .000000
.000000 .000000 .000000
0.25000 111.041004 .000000 .000000
.000000 .000000 .000000
0.50000 111.041004 .000000 .000000
.000000 .000000 .000000
0.75000 111.041004 .000000 .000000
.000000 .000000 .000000
1.00000 111.041004 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -415.524245 .000000 .000000
.000000 .000000 .000000
0.25000 -415.524245 .000000 .000000
.000000 .000000 .000000
0.50000 -415.524245 .000000 .000000
.000000 .000000 .000000
0.75000 -415.524245 .000000 .000000
.000000 .000000 .000000
1.00000 -415.524245 .000000 .000000
.000000 .000000 .000000

COMB DL-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 46.550482 .000000 .000000
.000000 .000000 .000000
0.25000 46.550482 .000000 .000000
.000000 .000000 .000000
0.50000 46.550482 .000000 .000000
.000000 .000000 .000000
0.75000 46.550482 .000000 .000000
.000000 .000000 .000000
1.00000 46.550482 .000000 .000000
.000000 .000000 .000000

COMB DL-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -530.783365 .000000 .000000
.000000 .000000 .000000
0.25000 -530.783365 .000000 .000000
.000000 .000000 .000000
0.50000 -530.783365 .000000 .000000
.000000 .000000 .000000
0.75000 -530.783365 .000000 .000000
.000000 .000000 .000000
1.00000 -530.783365 .000000 .000000
.000000 .000000 .000000

COMB DL-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 76.708976 .000000 .000000
.000000 .000000 .000000
0.25000 76.708976 .000000 .000000
.000000 .000000 .000000
0.50000 76.708976 .000000 .000000
.000000 .000000 .000000
0.75000 76.708976 .000000 .000000
.000000 .000000 .000000
1.00000 76.708976 .000000 .000000
.000000 .000000 .000000

COMB DL-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.25000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.50000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.75000 -692.868250 .000000 .000000
.000000 .000000 .000000
1.00000 -692.868250 .000000 .000000
.000000 .000000 .000000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 89.135697 .000000 .000000
.000000 .000000 .000000
0.25000 89.135697 .000000 .000000
.000000 .000000 .000000
0.50000 89.135697 .000000 .000000
.000000 .000000 .000000
0.75000 89.135697 .000000 .000000
.000000 .000000 .000000
1.00000 89.135697 .000000 .000000
.000000 .000000 .000000

COMB DL-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -653.282907 .000000 .000000
.000000 .000000 .000000
0.25000 -653.282907 .000000 .000000
.000000 .000000 .000000
0.50000 -653.282907 .000000 .000000
.000000 .000000 .000000
0.75000 -653.282907 .000000 .000000
.000000 .000000 .000000
1.00000 -653.282907 .000000 .000000
.000000 .000000 .000000

COMB DL-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 109.816871 .000000 .000000
.000000 .000000 .000000
0.25000 109.816871 .000000 .000000
.000000 .000000 .000000
0.50000 109.816871 .000000 .000000
.000000 .000000 .000000
0.75000 109.816871 .000000 .000000
.000000 .000000 .000000
1.00000 109.816871 .000000 .000000
.000000 .000000 .000000

COMB DL-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -550.524057 .000000 .000000
.000000 .000000 .000000
0.25000 -550.524057 .000000 .000000
.000000 .000000 .000000
0.50000 -550.524057 .000000 .000000
.000000 .000000 .000000
0.75000 -550.524057 .000000 .000000
.000000 .000000 .000000
1.00000 -550.524057 .000000 .000000
.000000 .000000 .000000

COMB DB ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 83.415280 .000000 .000000
.000000 .000000 .000000
0.25000 83.415280 .000000 .000000
.000000 .000000 .000000
0.50000 83.415280 .000000 .000000
.000000 .000000 .000000
0.75000 83.415280 .000000 .000000
.000000 .000000 .000000
1.00000 83.415280 .000000 .000000
.000000 .000000 .000000

COMB DB ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -681.632495 .000000 .000000
.000000 .000000 .000000
0.25000 -681.632495 .000000 .000000
.000000 .000000 .000000
0.50000 -681.632495 .000000 .000000
.000000 .000000 .000000
0.75000 -681.632495 .000000 .000000
.000000 .000000 .000000
1.00000 -681.632495 .000000 .000000
.000000 .000000 .000000

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 114.106935 .000000 .000000
.000000 .000000 .000000
0.25000 114.106935 .000000 .000000
.000000 .000000 .000000
0.50000 114.106935 .000000 .000000
.000000 .000000 .000000
0.75000 114.106935 .000000 .000000
.000000 .000000 .000000
1.00000 114.106935 .000000 .000000
.000000 .000000 .000000

COMB DL ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.25000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.50000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.75000 -692.868250 .000000 .000000
.000000 .000000 .000000
1.00000 -692.868250 .000000 .000000
.000000 .000000 .000000

COMB CAR ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 114.106935 .000000 .000000
.000000 .000000 .000000
0.25000 114.106935 .000000 .000000
.000000 .000000 .000000
0.50000 114.106935 .000000 .000000
.000000 .000000 .000000
0.75000 114.106935 .000000 .000000
.000000 .000000 .000000
1.00000 114.106935 .000000 .000000
.000000 .000000 .000000

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.25000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.50000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.75000 -692.868250 .000000 .000000
.000000 .000000 .000000
1.00000 -692.868250 .000000 .000000
.000000 .000000 .000000

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 114.106935 .000000 .000000
.000000 .000000 .000000
0.25000 114.106935 .000000 .000000
.000000 .000000 .000000
0.50000 114.106935 .000000 .000000
.000000 .000000 .000000
0.75000 114.106935 .000000 .000000
.000000 .000000 .000000
1.00000 114.106935 .000000 .000000
.000000 .000000 .000000

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.25000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.50000 -692.868250 .000000 .000000
.000000 .000000 .000000
0.75000 -692.868250 .000000 .000000
.000000 .000000 .000000
1.00000 -692.868250 .000000 .000000
.000000 .000000 .000000

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 495 ========== LENGTH = 1.200000

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 31.235625 .000000 .000000
.000000 .000000 .000000
0.25000 31.235625 .000000 .000000
.000000 .000000 .000000
0.50000 31.235625 .000000 .000000
.000000 .000000 .000000
0.75000 31.235625 .000000 .000000
.000000 .000000 .000000
1.00000 31.235625 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -8.639793 .000000 .000000
.000000 .000000 .000000
0.25000 -8.639793 .000000 .000000
.000000 .000000 .000000
0.50000 -8.639793 .000000 .000000
.000000 .000000 .000000
0.75000 -8.639793 .000000 .000000
.000000 .000000 .000000
1.00000 -8.639793 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 62.482547 .000000 .000000
.000000 .000000 .000000
0.25000 62.482547 .000000 .000000
.000000 .000000 .000000
0.50000 62.482547 .000000 .000000
.000000 .000000 .000000
0.75000 62.482547 .000000 .000000
.000000 .000000 .000000
1.00000 62.482547 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-22.186693	.000000	.000000
.000000	.000000	.000000	
0.25000	-22.186693	.000000	.000000
.000000	.000000	.000000	
0.50000	-22.186693	.000000	.000000
.000000	.000000	.000000	
0.75000	-22.186693	.000000	.000000
.000000	.000000	.000000	
1.00000	-22.186693	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	76.659780	.000000	.000000
.000000	.000000	.000000	
0.25000	76.659780	.000000	.000000
.000000	.000000	.000000	
0.50000	76.659780	.000000	.000000
.000000	.000000	.000000	
0.75000	76.659780	.000000	.000000
.000000	.000000	.000000	
1.00000	76.659780	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-102.606856	.000000	.000000
.000000	.000000	.000000	
0.25000	-102.606856	.000000	.000000
.000000	.000000	.000000	
0.50000	-102.606856	.000000	.000000
.000000	.000000	.000000	

REL DIST T	P M2	V2 M3	V3
0.75000	-102.606856	.000000	.000000
.000000	.000000	.000000	
1.00000	-102.606856	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	92.036155	.000000	.000000
.000000	.000000	.000000	
0.25000	92.036155	.000000	.000000
.000000	.000000	.000000	
0.50000	92.036155	.000000	.000000
.000000	.000000	.000000	
0.75000	92.036155	.000000	.000000
.000000	.000000	.000000	
1.00000	92.036155	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-315.573706	.000000	.000000
.000000	.000000	.000000	
0.25000	-315.573706	.000000	.000000
.000000	.000000	.000000	
0.50000	-315.573706	.000000	.000000
.000000	.000000	.000000	
0.75000	-315.573706	.000000	.000000
.000000	.000000	.000000	
1.00000	-315.573706	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	31.112019	.000000	.000000
.000000	.000000	.000000	
0.25000	31.112019	.000000	.000000
.000000	.000000	.000000	
0.50000	31.112019	.000000	.000000
.000000	.000000	.000000	
0.75000	31.112019	.000000	.000000
.000000	.000000	.000000	
1.00000	31.112019	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-35.721940	.000000	.000000
.000000	.000000	.000000	
0.25000	-35.721940	.000000	.000000
.000000	.000000	.000000	
0.50000	-35.721940	.000000	.000000
.000000	.000000	.000000	
0.75000	-35.721940	.000000	.000000
.000000	.000000	.000000	
1.00000	-35.721940	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	62.388433	.000000	.000000
.000000	.000000	.000000	
0.25000	62.388433	.000000	.000000
.000000	.000000	.000000	
0.50000	62.388433	.000000	.000000
.000000	.000000	.000000	
0.75000	62.388433	.000000	.000000
.000000	.000000	.000000	
1.00000	62.388433	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-169.233059	.000000	.000000
.000000	.000000	.000000	

REL DIST T	P M2	V2 M3	V3
0.25000	-169.233059	.000000	.000000
.000000	.000000	.000000	
0.50000	-169.233059	.000000	.000000
.000000	.000000	.000000	
0.75000	-169.233059	.000000	.000000
.000000	.000000	.000000	
1.00000	-169.233059	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	77.192582	.000000	.000000
.000000	.000000	.000000	
0.25000	77.192582	.000000	.000000
.000000	.000000	.000000	
0.50000	77.192582	.000000	.000000
.000000	.000000	.000000	
0.75000	77.192582	.000000	.000000
.000000	.000000	.000000	
1.00000	77.192582	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-159.214106	.000000	.000000
.000000	.000000	.000000	
0.25000	-159.214106	.000000	.000000
.000000	.000000	.000000	
0.50000	-159.214106	.000000	.000000
.000000	.000000	.000000	
0.75000	-159.214106	.000000	.000000
.000000	.000000	.000000	
1.00000	-159.214106	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	94.304794	.000000	.000000
.000000	.000000	.000000	
0.25000	94.304794	.000000	.000000
.000000	.000000	.000000	
0.50000	94.304794	.000000	.000000
.000000	.000000	.000000	
0.75000	94.304794	.000000	.000000
.000000	.000000	.000000	
1.00000	94.304794	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-461.358589	.000000	.000000
.000000	.000000	.000000	
0.25000	-461.358589	.000000	.000000
.000000	.000000	.000000	
0.50000	-461.358589	.000000	.000000
.000000	.000000	.000000	
0.75000	-461.358589	.000000	.000000
.000000	.000000	.000000	
1.00000	-461.358589	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	46.884518	.000000	.000000
.000000	.000000	.000000	
0.25000	46.884518	.000000	.000000
.000000	.000000	.000000	
0.50000	46.884518	.000000	.000000
.000000	.000000	.000000	
0.75000	46.884518	.000000	.000000
.000000	.000000	.000000	
1.00000	46.884518	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-584.167414	.000000	.000000
.000000	.000000	.000000	
0.25000	-584.167414	.000000	.000000
.000000	.000000	.000000	
0.50000	-584.167414	.000000	.000000
.000000	.000000	.000000	
0.75000	-584.167414	.000000	.000000
.000000	.000000	.000000	
1.00000	-584.167414	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	77.728434	.000000	.000000
.000000	.000000	.000000	
0.25000	77.728434	.000000	.000000
.000000	.000000	.000000	
0.50000	77.728434	.000000	.000000
.000000	.000000	.000000	
0.75000	77.728434	.000000	.000000
.000000	.000000	.000000	
1.00000	77.728434	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-757.337769	.000000	.000000
.000000	.000000	.000000	
0.25000	-757.337769	.000000	.000000
.000000	.000000	.000000	
0.50000	-757.337769	.000000	.000000
.000000	.000000	.000000	
0.75000	-757.337769	.000000	.000000
.000000	.000000	.000000	
1.00000	-757.337769	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	92.948940	.000000	.000000
.000000	.000000	.000000	
0.25000	92.948940	.000000	.000000
.000000	.000000	.000000	
0.50000	92.948940	.000000	.000000
.000000	.000000	.000000	
0.75000	92.948940	.000000	.000000
.000000	.000000	.000000	
1.00000	92.948940	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-730.312761	.000000	.000000
.000000	.000000	.000000	
0.25000	-730.312761	.000000	.000000
.000000	.000000	.000000	
0.50000	-730.312761	.000000	.000000
.000000	.000000	.000000	
0.75000	-730.312761	.000000	.000000
.000000	.000000	.000000	
1.00000	-730.312761	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	99.146025	.000000	.000000
.000000	.000000	.000000	
0.25000	99.146025	.000000	.000000
.000000	.000000	.000000	
0.50000	99.146025	.000000	.000000
.000000	.000000	.000000	
0.75000	99.146025	.000000	.000000
.000000	.000000	.000000	
1.00000	99.146025	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-613.858706	.000000	.000000
.000000	.000000	.000000	
0.25000	-613.858706	.000000	.000000
.000000	.000000	.000000	
0.50000	-613.858706	.000000	.000000
.000000	.000000	.000000	
0.75000	-613.858706	.000000	.000000
.000000	.000000	.000000	
1.00000	-613.858706	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	74.118865	.000000	.000000
.000000	.000000	.000000	
0.25000	74.118865	.000000	.000000
.000000	.000000	.000000	
0.50000	74.118865	.000000	.000000
.000000	.000000	.000000	
0.75000	74.118865	.000000	.000000
.000000	.000000	.000000	
1.00000	74.118865	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-12.099393	.000000	.000000
.000000	.000000	.000000	
0.25000	-12.099393	.000000	.000000
.000000	.000000	.000000	
0.50000	-12.099393	.000000	.000000
.000000	.000000	.000000	
0.75000	-12.099393	.000000	.000000
.000000	.000000	.000000	
1.00000	-12.099393	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	126.786328	.000000	.000000
.000000	.000000	.000000	
0.25000	126.786328	.000000	.000000
.000000	.000000	.000000	
0.50000	126.786328	.000000	.000000
.000000	.000000	.000000	
0.75000	126.786328	.000000	.000000
.000000	.000000	.000000	
1.00000	126.786328	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-38.190443	.000000	.000000
.000000	.000000	.000000	
0.25000	-38.190443	.000000	.000000
.000000	.000000	.000000	
0.50000	-38.190443	.000000	.000000
.000000	.000000	.000000	
0.75000	-38.190443	.000000	.000000
.000000	.000000	.000000	
1.00000	-38.190443	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	145.942385	.000000	.000000
.000000	.000000	.000000	
0.25000	145.942385	.000000	.000000
.000000	.000000	.000000	
0.50000	145.942385	.000000	.000000
.000000	.000000	.000000	
0.75000	145.942385	.000000	.000000
.000000	.000000	.000000	
1.00000	145.942385	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-224.236087	.000000	.000000
.000000	.000000	.000000	
0.25000	-224.236087	.000000	.000000
.000000	.000000	.000000	
0.50000	-224.236087	.000000	.000000
.000000	.000000	.000000	
0.75000	-224.236087	.000000	.000000
.000000	.000000	.000000	
1.00000	-224.236087	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	159.708128	.000000	.000000
.000000	.000000	.000000	
0.25000	159.708128	.000000	.000000
.000000	.000000	.000000	
0.50000	159.708128	.000000	.000000
.000000	.000000	.000000	
0.75000	159.708128	.000000	.000000
.000000	.000000	.000000	
1.00000	159.708128	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-649.122475	.000000	.000000
.000000	.000000	.000000	
0.25000	-649.122475	.000000	.000000
.000000	.000000	.000000	
0.50000	-649.122475	.000000	.000000
.000000	.000000	.000000	
0.75000	-649.122475	.000000	.000000
.000000	.000000	.000000	
1.00000	-649.122475	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	52.543228	.000000	.000000
.000000	.000000	.000000	
0.25000	52.543228	.000000	.000000
.000000	.000000	.000000	
0.50000	52.543228	.000000	.000000
.000000	.000000	.000000	
0.75000	52.543228	.000000	.000000
.000000	.000000	.000000	
1.00000	52.543228	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-69.920220	.000000	.000000
.000000	.000000	.000000	
0.25000	-69.920220	.000000	.000000
.000000	.000000	.000000	
0.50000	-69.920220	.000000	.000000
.000000	.000000	.000000	
0.75000	-69.920220	.000000	.000000
.000000	.000000	.000000	
1.00000	-69.920220	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	89.939178	.000000	.000000
.000000	.000000	.000000	
0.25000	89.939178	.000000	.000000
.000000	.000000	.000000	
0.50000	89.939178	.000000	.000000
.000000	.000000	.000000	
0.75000	89.939178	.000000	.000000
.000000	.000000	.000000	
1.00000	89.939178	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-371.854767	.000000	.000000
.000000	.000000	.000000	
0.25000	-371.854767	.000000	.000000
.000000	.000000	.000000	
0.50000	-371.854767	.000000	.000000
.000000	.000000	.000000	
0.75000	-371.854767	.000000	.000000
.000000	.000000	.000000	
1.00000	-371.854767	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	135.820420	.000000	.000000
.000000	.000000	.000000	
0.25000	135.820420	.000000	.000000
.000000	.000000	.000000	
0.50000	135.820420	.000000	.000000
.000000	.000000	.000000	
0.75000	135.820420	.000000	.000000
.000000	.000000	.000000	
1.00000	135.820420	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-343.559050	.000000	.000000
.000000	.000000	.000000	
0.25000	-343.559050	.000000	.000000
.000000	.000000	.000000	
0.50000	-343.559050	.000000	.000000
.000000	.000000	.000000	
0.75000	-343.559050	.000000	.000000
.000000	.000000	.000000	
1.00000	-343.559050	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	154.532944	.000000	.000000
.000000	.000000	.000000	
0.25000	154.532944	.000000	.000000
.000000	.000000	.000000	
0.50000	154.532944	.000000	.000000
.000000	.000000	.000000	
0.75000	154.532944	.000000	.000000
.000000	.000000	.000000	
1.00000	154.532944	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-926.667118	.000000	.000000
.000000	.000000	.000000	
0.25000	-926.667118	.000000	.000000
.000000	.000000	.000000	
0.50000	-926.667118	.000000	.000000
.000000	.000000	.000000	
0.75000	-926.667118	.000000	.000000
.000000	.000000	.000000	
1.00000	-926.667118	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	64.424295	.000000	.000000
.000000	.000000	.000000	
0.25000	64.424295	.000000	.000000
.000000	.000000	.000000	
0.50000	64.424295	.000000	.000000
.000000	.000000	.000000	
0.75000	64.424295	.000000	.000000
.000000	.000000	.000000	
1.00000	64.424295	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-1123.808	.000000	.000000
.000000	.000000	.000000	
0.25000	-1123.808	.000000	.000000
.000000	.000000	.000000	
0.50000	-1123.808	.000000	.000000
.000000	.000000	.000000	
0.75000	-1123.808	.000000	.000000
.000000	.000000	.000000	
1.00000	-1123.808	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	107.320409	.000000	.000000
.000000	.000000	.000000	
0.25000	107.320409	.000000	.000000
.000000	.000000	.000000	
0.50000	107.320409	.000000	.000000
.000000	.000000	.000000	
0.75000	107.320409	.000000	.000000
.000000	.000000	.000000	
1.00000	107.320409	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

```
REL DIST          P          V2          V3
        T          M2          M3
0.00000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.25000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.50000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.75000    -1499.036    .000000    .000000
 .000000    .000000    .000000
1.00000    -1499.036    .000000    .000000
 .000000    .000000    .000000

COMB DL-G3-3 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    128.932193    .000000    .000000
 .000000    .000000    .000000
0.25000    128.932193    .000000    .000000
 .000000    .000000    .000000
0.50000    128.932193    .000000    .000000
 .000000    .000000    .000000
0.75000    128.932193    .000000    .000000
 .000000    .000000    .000000
1.00000    128.932193    .000000    .000000
 .000000    .000000    .000000

COMB DL-G3-3 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000    -1445.177    .000000    .000000
 .000000    .000000    .000000
0.25000    -1445.177    .000000    .000000
 .000000    .000000    .000000
0.50000    -1445.177    .000000    .000000
 .000000    .000000    .000000
0.75000    -1445.177    .000000    .000000
 .000000    .000000    .000000
1.00000    -1445.177    .000000    .000000
 .000000    .000000    .000000

COMB DL-G3-4 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    153.224419    .000000    .000000
 .000000    .000000    .000000
0.25000    153.224419    .000000    .000000
 .000000    .000000    .000000
0.50000    153.224419    .000000    .000000
 .000000    .000000    .000000
0.75000    153.224419    .000000    .000000
 .000000    .000000    .000000
1.00000    153.224419    .000000    .000000
 .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   5056

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000    -1213.036    .000000    .000000
 .000000    .000000    .000000
0.25000    -1213.036    .000000    .000000
 .000000    .000000    .000000
0.50000    -1213.036    .000000    .000000
 .000000    .000000    .000000
0.75000    -1213.036    .000000    .000000
 .000000    .000000    .000000
1.00000    -1213.036    .000000    .000000
 .000000    .000000    .000000

COMB      DB ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    99.146025    .000000    .000000
 .000000    .000000    .000000
0.25000    99.146025    .000000    .000000
 .000000    .000000    .000000
0.50000    99.146025    .000000    .000000
 .000000    .000000    .000000
0.75000    99.146025    .000000    .000000
 .000000    .000000    .000000
1.00000    99.146025    .000000    .000000
 .000000    .000000    .000000

COMB      DB ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000 -757.337769    .000000    .000000
 .000000    .000000    .000000
0.25000 -757.337769    .000000    .000000
 .000000    .000000    .000000
0.50000 -757.337769    .000000    .000000
 .000000    .000000    .000000
0.75000 -757.337769    .000000    .000000
 .000000    .000000    .000000
1.00000 -757.337769    .000000    .000000
 .000000    .000000    .000000

COMB      DL ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.25000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.50000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.75000    159.708128    .000000    .000000
 .000000    .000000    .000000
1.00000    159.708128    .000000    .000000
 .000000    .000000    .000000

COMB      DL ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.25000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.50000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.75000    -1499.036    .000000    .000000
 .000000    .000000    .000000
1.00000    -1499.036    .000000    .000000
 .000000    .000000    .000000

COMB      CAR ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.25000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.50000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.75000    159.708128    .000000    .000000
 .000000    .000000    .000000
1.00000    159.708128    .000000    .000000
 .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   5057

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB      CAR ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.25000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.50000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.75000    -1499.036    .000000    .000000
 .000000    .000000    .000000
1.00000    -1499.036    .000000    .000000
 .000000    .000000    .000000

COMB   DESIGN ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.25000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.50000    159.708128    .000000    .000000
 .000000    .000000    .000000
0.75000    159.708128    .000000    .000000
 .000000    .000000    .000000
1.00000    159.708128    .000000    .000000
 .000000    .000000    .000000

COMB   DESIGN ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.25000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.50000    -1499.036    .000000    .000000
 .000000    .000000    .000000
0.75000    -1499.036    .000000    .000000
 .000000    .000000    .000000
1.00000    -1499.036    .000000    .000000
 .000000    .000000    .000000

ELEM      496 ================== LENGTH
=    1.200000

COMB DB-G1-1 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    30.283939    21.248825    0.633866
 .000000    0.760638    25.498590
0.25000    30.283939    21.248825    0.633866
 .000000    0.570478    19.123943
0.50000    30.283939    21.248825    0.633866
 .000000    0.380319    12.749295
0.75000    30.283939    21.248825    0.633866
 .000000    0.190159    6.374648
1.00000    30.283939    21.248825    0.633866
 .000000    .000000    .000000

COMB DB-G1-1 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000   -10.015684   -21.432873   -0.628423
 .000000   -0.754106   -25.719448
0.25000   -10.015684   -21.432873   -0.628423
 .000000   -0.565580   -19.289586
0.50000   -10.015684   -21.432873   -0.628423
 .000000   -0.377053   -12.859724
0.75000   -10.015684   -21.432873   -0.628423
 .000000   -0.188527   -6.429862
1.00000   -10.015684   -21.432873   -0.628423
 .000000    .000000    .000000

COMB DB-G1-2 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    61.663158    34.599513    1.030912
 .000000    1.237076    41.519415
0.25000    61.663158    34.599513    1.030912
 .000000    0.927807    31.139561
0.50000    61.663158    34.599513    1.030912
 .000000    0.618538    20.759708
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   5058

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
        T          M2          M3
0.75000    61.663158    34.599513    1.030912
 .000000    0.309263    10.379854
1.00000    61.663158    34.599513    1.030912
 .000000    .000000    .000000

COMB DB-G1-2 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000   -24.789507   -34.858145   -1.023263
 .000000   -1.227899   -41.829774
0.25000   -24.789507   -34.858145   -1.023263
 .000000   -0.920924   -31.372331
0.50000   -24.789507   -34.858145   -1.023263
 .000000   -0.613949   -20.914887
0.75000   -24.789507   -34.858145   -1.023263
 .000000   -0.306979   -10.457444
1.00000   -24.789507   -34.858145   -1.023263
 .000000    .000000    .000000

COMB DB-G1-3 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    76.760575    36.146509    1.076383
 .000000    1.291671    43.375810
0.25000    76.760575    36.146509    1.076383
 .000000    0.968753    32.531858
0.50000    76.760575    36.146509    1.076383
 .000000    0.645836    21.687905
0.75000    76.760575    36.146509    1.076383
 .000000    0.322919    10.843953
1.00000    76.760575    36.146509    1.076383
 .000000    .000000    .000000

COMB DB-G1-3 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000 -105.380365   -36.395664   -1.069015
 .000000   -1.282834   -43.674797
0.25000 -105.380365   -36.395664   -1.069015
 .000000   -0.962126   -32.755598
0.50000 -105.380365   -36.395664   -1.069015
 .000000   -0.641417   -21.837399
0.75000 -105.380365   -36.395664   -1.069015
 .000000   -0.320709   -10.918699
1.00000 -105.380365   -36.395664   -1.069015
 .000000    .000000    .000000

COMB DB-G1-4 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    92.541918    40.755776    1.212116
 .000000    1.454540    48.306931
0.25000    92.541918    40.755776    1.212116
 .000000    1.090905    36.680198
0.50000    92.541918    40.755776    1.212116
 .000000    0.727275    24.453466
0.75000    92.541918    40.755776    1.212116
 .000000    0.363636    12.226733
1.00000    92.541918    40.755776    1.212116
 .000000    .000000    .000000

COMB DB-G1-4 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000 -316.480761   -40.985176   -1.205332
 .000000   -1.446404   -49.182211
0.25000 -316.480761   -40.985176   -1.205332
 .000000   -1.084803   -36.886658
0.50000 -316.480761   -40.985176   -1.205332
 .000000   -0.723205   -24.591106
0.75000 -316.480761   -40.985176   -1.205332
 .000000   -0.361603   -12.295553
1.00000 -316.480761   -40.985176   -1.205332
 .000000    .000000    .000000

COMB DB-G2-1 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    31.916866    12.609093    0.374584
 .000000    0.449502    15.130912
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   5059

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
        T          M2          M3
0.25000    31.916866    12.609093    0.374584
 .000000    0.337126    11.348184
0.50000    31.916866    12.609093    0.374584
 .000000    0.224751    7.565456
0.75000    31.916866    12.609093    0.374584
 .000000    0.112348    3.782728
1.00000    31.916866    12.609093    0.374584
 .000000    .000000    .000000

COMB DB-G2-1 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000   -36.935670   -12.665788   -0.372908
 .000000   -0.447490   -15.198945
0.25000   -36.935670   -12.665788   -0.372908
 .000000   -0.335617   -11.399209
0.50000   -36.935670   -12.665788   -0.372908
 .000000   -0.223745   -7.599473
0.75000   -36.935670   -12.665788   -0.372908
 .000000   -0.111884   -3.799736
1.00000   -36.935670   -12.665788   -0.372908
 .000000    .000000    .000000

COMB DB-G2-2 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    63.816910    17.873349    0.531043
 .000000    0.637248    21.448018
0.25000    63.816910    17.873349    0.531043
 .000000    0.477936    16.086014
0.50000    63.816910    17.873349    0.531043
 .000000    0.318620    10.724009
0.75000    63.816910    17.873349    0.531043
 .000000    0.159308    5.362005
1.00000    63.816910    17.873349    0.531043
 .000000    .000000    .000000

COMB DB-G2-2 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000 -170.361123   -17.956129   -0.528595
 .000000   -0.634316   -21.547355
0.25000 -170.361123   -17.956129   -0.528595
 .000000   -0.475737   -16.160516
0.50000 -170.361123   -17.956129   -0.528595
 .000000   -0.317154   -10.773677
0.75000 -170.361123   -17.956129   -0.528595
 .000000   -0.158577   -5.386839
1.00000 -170.361123   -17.956129   -0.528595
 .000000    .000000    .000000

COMB DB-G2-3 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    77.742029    32.285491    0.960782
 .000000    1.152921    38.742589
0.25000    77.742029    32.285491    0.960782
 .000000    0.864690    29.056941
0.50000    77.742029    32.285491    0.960782
 .000000    0.576457    19.371294
0.75000    77.742029    32.285491    0.960782
 .000000    0.288224    9.685647
1.00000    77.742029    32.285491    0.960782
 .000000    .000000    .000000

COMB DB-G2-3 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000 -161.310790   -32.486730   -0.954827
 .000000   -1.145784   -38.984076
0.25000 -161.310790   -32.486730   -0.954827
 .000000   -0.859338   -29.238057
0.50000 -161.310790   -32.486730   -0.954827
 .000000   -0.572888   -19.492038
0.75000 -161.310790   -32.486730   -0.954827
 .000000   -0.286444   -9.746019
1.00000 -161.310790   -32.486730   -0.954827
 .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   5060

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G2-4 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    95.188429    42.061450    1.249180
 .000000    1.499092    50.473740
0.25000    95.188429    42.061450    1.249180
 .000000    1.124252    37.855305
0.50000    95.188429    42.061450    1.249180
 .000000    0.749499    25.236870
0.75000    95.188429    42.061450    1.249180
 .000000    0.374748    12.618435
1.00000    95.188429    42.061450    1.249180
 .000000    .000000    .000000

COMB DB-G2-4 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000   -462.107822   -42.238422   -1.243946
 .000000   -1.492737   -50.686107
0.25000   -462.107822   -42.238422   -1.243946
 .000000   -1.119542   -38.014580
0.50000   -462.107822   -42.238422   -1.243946
 .000000   -0.746359   -25.343053
0.75000   -462.107822   -42.238422   -1.243946
 .000000   -0.373179   -12.671527
1.00000   -462.107822   -42.238422   -1.243946
 .000000    .000000    .000000

COMB DB-G3-1 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    47.546542    26.364073    0.780079
 .000000    0.936095    31.636888
0.25000    47.546542    26.364073    0.780079
 .000000    0.702071    23.727666
0.50000    47.546542    26.364073    0.780079
 .000000    0.468047    15.818444
0.75000    47.546542    26.364073    0.780079
 .000000    0.234024    7.909222
1.00000    47.546542    26.364073    0.780079
 .000000    .000000    .000000

COMB DB-G3-1 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000   -584.784627   -26.376748   -0.779704
 .000000   -0.935645   -31.652098
0.25000   -584.784627   -26.376748   -0.779704
 .000000   -0.701734   -23.739074
0.50000   -584.784627   -26.376748   -0.779704
 .000000   -0.467823   -15.826049
0.75000   -584.784627   -26.376748   -0.779704
 .000000   -0.233910   -7.913025
1.00000   -584.784627   -26.376748   -0.779704
 .000000    .000000    .000000

COMB DB-G3-2 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    78.913132    33.802784    1.000891
 .000000    1.201069    40.563341
0.25000    78.913132    33.802784    1.000891
 .000000    0.900802    30.422506
0.50000    78.913132    33.802784    1.000891
 .000000    0.600530    20.281670
0.75000    78.913132    33.802784    1.000891
 .000000    0.300257    10.140835
1.00000    78.913132    33.802784    1.000891
 .000000    .000000    .000000

COMB DB-G3-2 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000   -757.090599   -33.843057   -0.999700
 .000000   -1.199640   -40.611669
0.25000   -757.090599   -33.843057   -0.999700
 .000000   -0.899730   -30.458751
0.50000   -757.090599   -33.843057   -0.999700
 .000000   -0.599815   -20.305834
0.75000   -757.090599   -33.843057   -0.999700
 .000000   -0.299907   -10.152917
1.00000   -757.090599   -33.843057   -0.999700
 .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   5061

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-3 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    94.686966    38.239942    1.132821
 .000000    1.359364    45.887930
0.25000    94.686966    38.239942    1.132821
 .000000    1.019523    34.415948
0.50000    94.686966    38.239942    1.132821
 .000000    0.679679    22.943965
0.75000    94.686966    38.239942    1.132821
 .000000    0.339834    11.471983
1.00000    94.686966    38.239942    1.132821
 .000000    .000000    .000000

COMB DB-G3-3 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000 -730.907805   -38.303983   -1.130927
 .000000   -1.357095   -45.964779
0.25000 -730.907805   -38.303983   -1.130927
 .000000   -1.017821   -34.473585
0.50000 -730.907805   -38.303983   -1.130927
 .000000   -0.678544   -22.982390
0.75000 -730.907805   -38.303983   -1.130927
 .000000   -0.339272   -11.491195
1.00000 -730.907805   -38.303983   -1.130927
 .000000    .000000    .000000

COMB DB-G3-4 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    100.420638    44.503424    1.320311
 .000000    1.584363    53.404109
0.25000    100.420638    44.503424    1.320311
 .000000    1.188272    40.053082
0.50000    100.420638    44.503424    1.320311
 .000000    0.792179    26.702055
0.75000    100.420638    44.503424    1.320311
 .000000    0.396087    13.351027
1.00000    100.420638    44.503424    1.320311
 .000000    .000000    .000000

COMB DB-G3-4 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000   -615.336049   -44.643575   -1.316166
 .000000   -1.579394   -53.572290
0.25000   -615.336049   -44.643575   -1.316166
 .000000   -1.184545   -40.179217
0.50000   -615.336049   -44.643575   -1.316166
 .000000   -0.789694   -26.786145
0.75000   -615.336049   -44.643575   -1.316166
 .000000   -0.394847   -13.393072
1.00000   -615.336049   -44.643575   -1.316166
 .000000    .000000    .000000

COMB DL-G1-1 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    80.268094    29.209028    0.905791
 .000000    1.086949    35.050834
0.25000    80.268094    29.209028    0.905791
 .000000    0.815092    26.288125
0.50000    80.268094    29.209028    0.905791
 .000000    0.543265    17.525417
0.75000    80.268094    29.209028    0.905791
 .000000    0.271399    8.762708
1.00000    80.268094    29.209028    0.905791
 .000000    .000000    .000000

COMB DL-G1-1 ------------------ MIN

REL DIST          P          V2          V3
        T          M2          M3
0.00000   -14.349055   -30.627421   -0.863842
 .000000   -1.036677   -36.752906
0.25000   -14.349055   -30.627421   -0.863842
 .000000   -0.777335   -27.564679
0.50000   -14.349055   -30.627421   -0.863842
 .000000   -0.518226   -18.376453
0.75000   -14.349055   -30.627421   -0.863842
 .000000   -0.258726   -9.188226
1.00000   -14.349055   -30.627421   -0.863842
 .000000    .000000    .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING              LOAD              >
                                   5062

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-2 ------------------ MAX

REL DIST          P          V2          V3
        T          M2          M3
0.00000    143.628485    47.164125    1.430057
 .000000    1.715958    56.596950
0.25000    143.628485    47.164125    1.430057
 .000000    1.286973    42.447712
0.50000    143.628485    47.164125    1.430057
 .000000    0.857643    28.298475
0.75000    143.628485    47.164125    1.430057
 .000000    0.428511    14.149237
1.00000    143.628485    47.164125    1.430057
 .000000    .000000    .000000

COMB DL-G1-2 ------------------ MIN
```

```
REL DIST          P              V2              V3
     T           M2              M3
0.00000   -44.298042   -48.354356   -1.394855
 .000000    -1.673801   -58.025227
0.25000   -44.298042   -48.354356   -1.394855
 .000000    -1.255154   -43.518920
0.50000   -44.298042   -48.354356   -1.394855
 .000000    -0.836649   -29.012613
0.75000   -44.298042   -48.354356   -1.394855
 .000000    -0.418108   -14.506307
1.00000   -44.298042   -48.354356   -1.394855
 .000000     .000000     .000000

COMB DL-G1-3 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   180.680049    47.168734    1.440715
 .000000    1.728855    56.602481
0.25000   180.680049    47.168734    1.440715
 .000000    1.296803    42.451861
0.50000   180.680049    47.168734    1.440715
 .000000    0.864106    28.301241
0.75000   180.680049    47.168734    1.440715
 .000000    0.431486    14.150620
1.00000   180.680049    47.168734    1.440715
 .000000     .000000     .000000

COMB DL-G1-3 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -238.018418   -48.714161   -1.394964
 .000000    -1.673782   -58.456993
0.25000  -238.018418   -48.714161   -1.394964
 .000000    -1.254987   -43.842745
0.50000  -238.018418   -48.714161   -1.394964
 .000000    -0.836430   -29.228496
0.75000  -238.018418   -48.714161   -1.394964
 .000000    -0.417171   -14.614257
1.00000  -238.018418   -48.714161   -1.394964
 .000000     .000000     .000000

COMB DL-G1-4 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   209.504932    52.927559    1.621138
 .000000    1.945456    63.513070
0.25000   209.504932    52.927559    1.621138
 .000000    1.459458    47.634803
0.50000   209.504932    52.927559    1.621138
 .000000    0.972548    31.756535
0.75000   209.504932    52.927559    1.621138
 .000000    0.485948    15.878268
1.00000   209.504932    52.927559    1.621138
 .000000     .000000     .000000

COMB DL-G1-4 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -670.746921   -54.815222   -1.565270
 .000000    -1.878227   -65.778267
0.25000  -670.746921   -54.815222   -1.565270
 .000000    -1.408292   -49.333700
0.50000  -670.746921   -54.815222   -1.565270
 .000000    -0.938624   -32.889133
0.75000  -670.746921   -54.815222   -1.565270
 .000000    -0.468214   -16.444567
1.00000  -670.746921   -54.815222   -1.565270
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                5063

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-1 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000    67.856711    16.325800    0.475909
 .000000     0.570883    19.590960
0.25000    67.856711    16.325800    0.475909
 .000000     0.428135    14.693220
0.50000    67.856711    16.325800    0.475909
 .000000     0.285451     9.795480
0.75000    67.856711    16.325800    0.475909
 .000000     0.142771     4.897740
1.00000    67.856711    16.325800    0.475909
 .000000     .000000     .000000

COMB DL-G2-1 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -75.997483   -16.092008   -0.482819
 .000000    -0.579313   -19.310409
0.25000   -75.997483   -16.092008   -0.482819
 .000000    -0.434358   -14.482807
0.50000   -75.997483   -16.092008   -0.482819
 .000000    -0.289505    -9.655205
0.75000   -75.997483   -16.092008   -0.482819
 .000000    -0.144634    -4.827602
1.00000   -75.997483   -16.092008   -0.482819
 .000000     .000000     .000000

COMB DL-G2-2 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   129.164249    21.374737    0.649687
 .000000     0.779506    25.649685
0.25000   129.164249    21.374737    0.649687
 .000000     0.585122    19.237264
0.50000   129.164249    21.374737    0.649687
 .000000     0.390207    12.824842
0.75000   129.164249    21.374737    0.649687
 .000000     0.195202     6.412421
1.00000   129.164249    21.374737    0.649687
 .000000     .000000     .000000

COMB DL-G2-2 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -388.255932   -21.967529   -0.632128
 .000000    -0.758239   -26.361034
0.25000  -388.255932   -21.967529   -0.632128
 .000000    -0.568555   -19.770776
0.50000  -388.255932   -21.967529   -0.632128
 .000000    -0.378774   -13.180517
0.75000  -388.255932   -21.967529   -0.632128
 .000000    -0.188682    -6.590259
1.00000  -388.255932   -21.967529   -0.632128
 .000000     .000000     .000000

COMB DL-G2-3 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   176.974405    41.469492    1.260253
 .000000     1.512027    49.763390
0.25000   176.974405    41.469492    1.260253
 .000000     1.134325    37.322542
0.50000   176.974405    41.469492    1.260253
 .000000     0.756246    24.881695
0.75000   176.974405    41.469492    1.260253
 .000000     0.377955    12.440847
1.00000   176.974405    41.469492    1.260253
 .000000     .000000     .000000

COMB DL-G2-3 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -359.940672   -42.612117   -1.226421
 .000000    -1.471322   -51.134541
0.25000  -359.940672   -42.612117   -1.226421
 .000000    -1.103306   -38.350906
0.50000  -359.940672   -42.612117   -1.226421
 .000000    -0.735532   -25.567270
0.75000  -359.940672   -42.612117   -1.226421
 .000000    -0.366914   -12.783635
1.00000  -359.940672   -42.612117   -1.226421
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                5064

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G2-4 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   211.757678    54.218163    1.644552
 .000000     1.917281    65.061795
0.25000   211.757678    54.218163    1.644552
 .000000     1.480495    48.796347
0.50000   211.757678    54.218163    1.644552
 .000000     0.986912    32.530898
0.75000   211.757678    54.218163    1.644552
 .000000     0.493749    16.265449
1.00000   211.757678    54.218163    1.644552
 .000000     .000000     .000000

COMB DL-G2-4 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -953.558437   -55.606905   -1.603460
 .000000    -1.923743   -66.728286
0.25000  -953.558437   -55.606905   -1.603460
 .000000    -1.442511   -50.046215
0.50000  -953.558437   -55.606905   -1.603460
 .000000    -0.961623   -33.364143
0.75000  -953.558437   -55.606905   -1.603460
 .000000    -0.479929   -16.682072
1.00000  -953.558437   -55.606905   -1.603460
 .000000     .000000     .000000

COMB DL-G3-1 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   100.091889    34.216121    1.026300
 .000000     1.231480    41.059345
0.25000   100.091889    34.216121    1.026300
 .000000     0.923464    30.794509
0.50000   100.091889    34.216121    1.026300
 .000000     0.615542    20.529672
0.75000   100.091889    34.216121    1.026300
 .000000     0.307013    10.264836
1.00000   100.091889    34.216121    1.026300
 .000000     .000000     .000000

COMB DL-G3-1 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -1147.427   -34.702200   -1.011924
 .000000    -1.214176   -41.642640
0.25000   -1147.427   -34.702200   -1.011924
 .000000    -0.910496   -31.231980
0.50000   -1147.427   -34.702200   -1.011924
 .000000    -0.606885   -20.821320
0.75000   -1147.427   -34.702200   -1.011924
 .000000    -0.303147   -10.410660
1.00000   -1147.427   -34.702200   -1.011924
 .000000     .000000     .000000

COMB DL-G3-2 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   165.750928    43.752678    1.332314
 .000000     1.598539    52.503213
0.25000   165.750928    43.752678    1.332314
 .000000     1.198890    39.377410
0.50000   165.750928    43.752678    1.332314
 .000000     0.799222    26.251607
0.75000   165.750928    43.752678    1.332314
 .000000     0.398765    13.125808
1.00000   165.750928    43.752678    1.332314
 .000000     .000000     .000000

COMB DL-G3-2 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -1532.894   -45.049239   -1.293957
 .000000    -1.552626   -54.059087
0.25000   -1532.894   -45.049239   -1.293957
 .000000    -1.164238   -40.544315
0.50000   -1532.894   -45.049239   -1.293957
 .000000    -0.775996   -27.029543
0.75000   -1532.894   -45.049239   -1.293957
 .000000    -0.387483   -13.514868
1.00000   -1532.894   -45.049239   -1.293957
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                5065

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB DL-G3-3 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   197.224311    47.886260    1.451288
 .000000     1.741854    57.463512
0.25000   197.224311    47.886260    1.451288
 .000000     1.306501    43.097634
0.50000   197.224311    47.886260    1.451288
 .000000     0.870474    28.731756
0.75000   197.224311    47.886260    1.451288
 .000000     0.435073    14.365878
1.00000   197.224311    47.886260    1.451288
 .000000     .000000     .000000

COMB DL-G3-3 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -1481.957   -49.071527   -1.416192
 .000000    -1.699107   -58.885832
0.25000   -1481.957   -49.071527   -1.416192
 .000000    -1.274047   -44.163474
0.50000   -1481.957   -49.071527   -1.416192
 .000000    -0.849067   -29.442916
0.75000   -1481.957   -49.071527   -1.416192
 .000000    -0.423634   -14.721458
1.00000   -1481.957   -49.071527   -1.416192
 .000000     .000000     .000000

COMB DL-G3-4 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   216.770738    57.182581    1.723020
 .000000     2.067831    68.619097
0.25000   216.770738    57.182581    1.723020
 .000000     1.550881    51.464323
0.50000   216.770738    57.182581    1.723020
 .000000     1.033622    34.309548
0.75000   216.770738    57.182581    1.723020
 .000000     0.516419    17.154774
1.00000   216.770738    57.182581    1.723020
 .000000     .000000     .000000

COMB DL-G3-4 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -1245.767   -58.259711   -1.691133
 .000000    -2.029126   -69.911653
0.25000   -1245.767   -58.259711   -1.691133
 .000000    -1.521617   -52.433740
0.50000   -1245.767   -58.259711   -1.691133
 .000000    -1.014160   -34.955827
0.75000   -1245.767   -58.259711   -1.691133
 .000000    -0.506395   -17.477913
1.00000   -1245.767   -58.259711   -1.691133
 .000000     .000000     .000000

COMB       DB ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   100.420638    44.503424    1.320311
 .000000     1.584363    53.404109
0.25000   100.420638    44.503424    1.320311
 .000000     1.188272    40.053082
0.50000   100.420638    44.503424    1.320311
 .000000     0.792179    26.702055
0.75000   100.420638    44.503424    1.320311
 .000000     0.396087    13.351027
1.00000   100.420638    44.503424    1.320311
 .000000     .000000     .000000

COMB       DB ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -757.090599   -44.643575   -1.316166
 .000000    -1.579394   -53.572290
0.25000  -757.090599   -44.643575   -1.316166
 .000000    -1.184545   -40.179217
0.50000  -757.090599   -44.643575   -1.316166
 .000000    -0.789694   -26.786145
0.75000  -757.090599   -44.643575   -1.316166
 .000000    -0.394847   -13.393072
1.00000  -757.090599   -44.643575   -1.316166
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                5066

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

COMB       DL ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   216.770738    57.182581    1.723020
 .000000     2.067831    68.619097
0.25000   216.770738    57.182581    1.723020
 .000000     1.550881    51.464323
0.50000   216.770738    57.182581    1.723020
 .000000     1.033622    34.309548
0.75000   216.770738    57.182581    1.723020
 .000000     0.516419    17.154774
1.00000   216.770738    57.182581    1.723020
 .000000     .000000     .000000

COMB       DL ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -1532.894   -58.259711   -1.691133
 .000000    -2.029126   -69.911653
0.25000   -1532.894   -58.259711   -1.691133
 .000000    -1.521617   -52.433740
0.50000   -1532.894   -58.259711   -1.691133
 .000000    -1.014160   -34.955827
0.75000   -1532.894   -58.259711   -1.691133
 .000000    -0.506395   -17.477913
1.00000   -1532.894   -58.259711   -1.691133
 .000000     .000000     .000000

COMB       CAR ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   216.770738    57.182581    1.723020
 .000000     2.067831    68.619097
0.25000   216.770738    57.182581    1.723020
 .000000     1.550881    51.464323
0.50000   216.770738    57.182581    1.723020
 .000000     1.033622    34.309548
0.75000   216.770738    57.182581    1.723020
 .000000     0.516419    17.154774
1.00000   216.770738    57.182581    1.723020
 .000000     .000000     .000000

COMB       CAR ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -1532.894   -58.259711   -1.691133
 .000000    -2.029126   -69.911653
0.25000   -1532.894   -58.259711   -1.691133
 .000000    -1.521617   -52.433740
0.50000   -1532.894   -58.259711   -1.691133
 .000000    -1.014160   -34.955827
0.75000   -1532.894   -58.259711   -1.691133
 .000000    -0.506395   -17.477913
1.00000   -1532.894   -58.259711   -1.691133
 .000000     .000000     .000000

COMB       DESIGN ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000   216.770738    57.182581    1.723020
 .000000     2.067831    68.619097
0.25000   216.770738    57.182581    1.723020
 .000000     1.550881    51.464323
0.50000   216.770738    57.182581    1.723020
 .000000     1.033622    34.309548
0.75000   216.770738    57.182581    1.723020
 .000000     0.516419    17.154774
1.00000   216.770738    57.182581    1.723020
 .000000     .000000     .000000

COMB       DESIGN ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -1532.894   -58.259711   -1.691133
 .000000    -2.029126   -69.911653
0.25000   -1532.894   -58.259711   -1.691133
 .000000    -1.521617   -52.433740
0.50000   -1532.894   -58.259711   -1.691133
 .000000    -1.014160   -34.955827
0.75000   -1532.894   -58.259711   -1.691133
 .000000    -0.506395   -17.477913
1.00000   -1532.894   -58.259711   -1.691133
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                5067

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      497 ================== LENGTH
=    1.200000

COMB DB-G1-1 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000    30.607474     .000000     .000000
 .000000     .000000     .000000
0.25000    30.607474     .000000     .000000
 .000000     .000000     .000000
0.50000    30.607474     .000000     .000000
 .000000     .000000     .000000
0.75000    30.607474     .000000     .000000
 .000000     .000000     .000000
1.00000    30.607474     .000000     .000000
 .000000     .000000     .000000

COMB DB-G1-1 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000    -7.601191     .000000     .000000
 .000000     .000000     .000000
0.25000    -7.601191     .000000     .000000
 .000000     .000000     .000000
0.50000    -7.601191     .000000     .000000
 .000000     .000000     .000000
0.75000    -7.601191     .000000     .000000
 .000000     .000000     .000000
1.00000    -7.601191     .000000     .000000
 .000000     .000000     .000000

COMB DB-G1-2 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000    62.148867     .000000     .000000
 .000000     .000000     .000000
0.25000    62.148867     .000000     .000000
 .000000     .000000     .000000
0.50000    62.148867     .000000     .000000
 .000000     .000000     .000000
0.75000    62.148867     .000000     .000000
 .000000     .000000     .000000
1.00000    62.148867     .000000     .000000
 .000000     .000000     .000000

COMB DB-G1-2 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -22.418010     .000000     .000000
 .000000     .000000     .000000
0.25000   -22.418010     .000000     .000000
 .000000     .000000     .000000
0.50000   -22.418010     .000000     .000000
 .000000     .000000     .000000
0.75000   -22.418010     .000000     .000000
 .000000     .000000     .000000
1.00000   -22.418010     .000000     .000000
 .000000     .000000     .000000

COMB DB-G1-3 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000    81.262457     .000000     .000000
 .000000     .000000     .000000
0.25000    81.262457     .000000     .000000
 .000000     .000000     .000000
0.50000    81.262457     .000000     .000000
 .000000     .000000     .000000
0.75000    81.262457     .000000     .000000
 .000000     .000000     .000000
1.00000    81.262457     .000000     .000000
 .000000     .000000     .000000

COMB DB-G1-3 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -103.463173     .000000     .000000
 .000000     .000000     .000000
0.25000  -103.463173     .000000     .000000
 .000000     .000000     .000000
0.50000  -103.463173     .000000     .000000
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                5068

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2              V3
     T           M2              M3
0.75000  -103.463173     .000000     .000000
 .000000     .000000     .000000
1.00000  -103.463173     .000000     .000000
 .000000     .000000     .000000

COMB DB-G1-4 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000    98.855372     .000000     .000000
 .000000     .000000     .000000
0.25000    98.855372     .000000     .000000
 .000000     .000000     .000000
0.50000    98.855372     .000000     .000000
 .000000     .000000     .000000
0.75000    98.855372     .000000     .000000
 .000000     .000000     .000000
1.00000    98.855372     .000000     .000000
 .000000     .000000     .000000

COMB DB-G1-4 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -314.815810     .000000     .000000
 .000000     .000000     .000000
0.25000  -314.815810     .000000     .000000
 .000000     .000000     .000000
0.50000  -314.815810     .000000     .000000
 .000000     .000000     .000000
0.75000  -314.815810     .000000     .000000
 .000000     .000000     .000000
1.00000  -314.815810     .000000     .000000
 .000000     .000000     .000000

COMB DB-G2-1 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000    34.179028     .000000     .000000
 .000000     .000000     .000000
0.25000    34.179028     .000000     .000000
 .000000     .000000     .000000
0.50000    34.179028     .000000     .000000
 .000000     .000000     .000000
0.75000    34.179028     .000000     .000000
 .000000     .000000     .000000
1.00000    34.179028     .000000     .000000
 .000000     .000000     .000000

COMB DB-G2-1 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000   -37.682797     .000000     .000000
 .000000     .000000     .000000
0.25000   -37.682797     .000000     .000000
 .000000     .000000     .000000
0.50000   -37.682797     .000000     .000000
 .000000     .000000     .000000
0.75000   -37.682797     .000000     .000000
 .000000     .000000     .000000
1.00000   -37.682797     .000000     .000000
 .000000     .000000     .000000

COMB DB-G2-2 ------------------- MAX

REL DIST          P              V2              V3
     T           M2              M3
0.00000    69.581368     .000000     .000000
 .000000     .000000     .000000
0.25000    69.581368     .000000     .000000
 .000000     .000000     .000000
0.50000    69.581368     .000000     .000000
 .000000     .000000     .000000
0.75000    69.581368     .000000     .000000
 .000000     .000000     .000000
1.00000    69.581368     .000000     .000000
 .000000     .000000     .000000

COMB DB-G2-2 ------------------- MIN

REL DIST          P              V2              V3
     T           M2              M3
0.00000  -171.159905     .000000     .000000
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                    Page
<              MOVING          LOAD              >
                                5069

F R A M E   E L E M E N T   I N T E R N A
```

L FORCES

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-171.159905	.000000	.000000
.000000	.000000	.000000	
0.50000	-171.159905	.000000	.000000
.000000	.000000	.000000	
0.75000	-171.159905	.000000	.000000
.000000	.000000	.000000	
1.00000	-171.159905	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	83.303812	.000000	.000000
.000000	.000000	.000000	
0.25000	83.303812	.000000	.000000
.000000	.000000	.000000	
0.50000	83.303812	.000000	.000000
.000000	.000000	.000000	
0.75000	83.303812	.000000	.000000
.000000	.000000	.000000	
1.00000	83.303812	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-159.866386	.000000	.000000
.000000	.000000	.000000	
0.25000	-159.866386	.000000	.000000
.000000	.000000	.000000	
0.50000	-159.866386	.000000	.000000
.000000	.000000	.000000	
0.75000	-159.866386	.000000	.000000
.000000	.000000	.000000	
1.00000	-159.866386	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	102.422273	.000000	.000000
.000000	.000000	.000000	
0.25000	102.422273	.000000	.000000
.000000	.000000	.000000	
0.50000	102.422273	.000000	.000000
.000000	.000000	.000000	
0.75000	102.422273	.000000	.000000
.000000	.000000	.000000	
1.00000	102.422273	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-460.930757	.000000	.000000
.000000	.000000	.000000	
0.25000	-460.930757	.000000	.000000
.000000	.000000	.000000	
0.50000	-460.930757	.000000	.000000
.000000	.000000	.000000	
0.75000	-460.930757	.000000	.000000
.000000	.000000	.000000	
1.00000	-460.930757	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	51.595208	.000000	.000000
.000000	.000000	.000000	
0.25000	51.595208	.000000	.000000
.000000	.000000	.000000	
0.50000	51.595208	.000000	.000000
.000000	.000000	.000000	
0.75000	51.595208	.000000	.000000
.000000	.000000	.000000	
1.00000	51.595208	.000000	.000000
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5070

F R A M E E L E M E N T I N T E R N A L FORCES

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-584.875936	.000000	.000000
.000000	.000000	.000000	
0.25000	-584.875936	.000000	.000000
.000000	.000000	.000000	
0.50000	-584.875936	.000000	.000000
.000000	.000000	.000000	
0.75000	-584.875936	.000000	.000000
.000000	.000000	.000000	
1.00000	-584.875936	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	85.945340	.000000	.000000
.000000	.000000	.000000	
0.25000	85.945340	.000000	.000000
.000000	.000000	.000000	
0.50000	85.945340	.000000	.000000
.000000	.000000	.000000	
0.75000	85.945340	.000000	.000000
.000000	.000000	.000000	
1.00000	85.945340	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-757.139271	.000000	.000000
.000000	.000000	.000000	
0.25000	-757.139271	.000000	.000000
.000000	.000000	.000000	
0.50000	-757.139271	.000000	.000000
.000000	.000000	.000000	
0.75000	-757.139271	.000000	.000000
.000000	.000000	.000000	
1.00000	-757.139271	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	104.068540	.000000	.000000
.000000	.000000	.000000	
0.25000	104.068540	.000000	.000000
.000000	.000000	.000000	
0.50000	104.068540	.000000	.000000
.000000	.000000	.000000	
0.75000	104.068540	.000000	.000000
.000000	.000000	.000000	
1.00000	104.068540	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-731.441247	.000000	.000000
.000000	.000000	.000000	
0.25000	-731.441247	.000000	.000000
.000000	.000000	.000000	
0.50000	-731.441247	.000000	.000000
.000000	.000000	.000000	
0.75000	-731.441247	.000000	.000000
.000000	.000000	.000000	
1.00000	-731.441247	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	108.384199	.000000	.000000
.000000	.000000	.000000	
0.25000	108.384199	.000000	.000000
.000000	.000000	.000000	
0.50000	108.384199	.000000	.000000
.000000	.000000	.000000	
0.75000	108.384199	.000000	.000000
.000000	.000000	.000000	
1.00000	108.384199	.000000	.000000
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5071

F R A M E E L E M E N T I N T E R N A L FORCES

COMB DB-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-614.804585	.000000	.000000
.000000	.000000	.000000	
0.25000	-614.804585	.000000	.000000
.000000	.000000	.000000	
0.50000	-614.804585	.000000	.000000
.000000	.000000	.000000	
0.75000	-614.804585	.000000	.000000
.000000	.000000	.000000	
1.00000	-614.804585	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	85.448113	.000000	.000000
.000000	.000000	.000000	
0.25000	85.448113	.000000	.000000
.000000	.000000	.000000	
0.50000	85.448113	.000000	.000000
.000000	.000000	.000000	
0.75000	85.448113	.000000	.000000
.000000	.000000	.000000	
1.00000	85.448113	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-10.171088	.000000	.000000
.000000	.000000	.000000	
0.25000	-10.171088	.000000	.000000
.000000	.000000	.000000	
0.50000	-10.171088	.000000	.000000
.000000	.000000	.000000	
0.75000	-10.171088	.000000	.000000
.000000	.000000	.000000	
1.00000	-10.171088	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	154.978346	.000000	.000000
.000000	.000000	.000000	
0.25000	154.978346	.000000	.000000
.000000	.000000	.000000	
0.50000	154.978346	.000000	.000000
.000000	.000000	.000000	
0.75000	154.978346	.000000	.000000
.000000	.000000	.000000	
1.00000	154.978346	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-38.543046	.000000	.000000
.000000	.000000	.000000	
0.25000	-38.543046	.000000	.000000
.000000	.000000	.000000	
0.50000	-38.543046	.000000	.000000
.000000	.000000	.000000	
0.75000	-38.543046	.000000	.000000
.000000	.000000	.000000	
1.00000	-38.543046	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	200.385148	.000000	.000000
.000000	.000000	.000000	
0.25000	200.385148	.000000	.000000
.000000	.000000	.000000	
0.50000	200.385148	.000000	.000000
.000000	.000000	.000000	
0.75000	200.385148	.000000	.000000
.000000	.000000	.000000	
1.00000	200.385148	.000000	.000000
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5072

F R A M E E L E M E N T I N T E R N A L FORCES

COMB DL-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-231.622875	.000000	.000000
.000000	.000000	.000000	
0.25000	-231.622875	.000000	.000000
.000000	.000000	.000000	
0.50000	-231.622875	.000000	.000000
.000000	.000000	.000000	
0.75000	-231.622875	.000000	.000000
.000000	.000000	.000000	
1.00000	-231.622875	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	233.702553	.000000	.000000
.000000	.000000	.000000	
0.25000	233.702553	.000000	.000000
.000000	.000000	.000000	
0.50000	233.702553	.000000	.000000
.000000	.000000	.000000	
0.75000	233.702553	.000000	.000000
.000000	.000000	.000000	
1.00000	233.702553	.000000	.000000
.000000	.000000	.000000	

COMB DL-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-664.292528	.000000	.000000
.000000	.000000	.000000	
0.25000	-664.292528	.000000	.000000
.000000	.000000	.000000	
0.50000	-664.292528	.000000	.000000
.000000	.000000	.000000	
0.75000	-664.292528	.000000	.000000
.000000	.000000	.000000	
1.00000	-664.292528	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	75.811672	.000000	.000000
.000000	.000000	.000000	
0.25000	75.811672	.000000	.000000
.000000	.000000	.000000	
0.50000	75.811672	.000000	.000000
.000000	.000000	.000000	
0.75000	75.811672	.000000	.000000
.000000	.000000	.000000	
1.00000	75.811672	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-74.770490	.000000	.000000
.000000	.000000	.000000	
0.25000	-74.770490	.000000	.000000
.000000	.000000	.000000	
0.50000	-74.770490	.000000	.000000
.000000	.000000	.000000	
0.75000	-74.770490	.000000	.000000
.000000	.000000	.000000	
1.00000	-74.770490	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	148.043395	.000000	.000000
.000000	.000000	.000000	
0.25000	148.043395	.000000	.000000
.000000	.000000	.000000	
0.50000	148.043395	.000000	.000000
.000000	.000000	.000000	
0.75000	148.043395	.000000	.000000
.000000	.000000	.000000	
1.00000	148.043395	.000000	.000000
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5073

F R A M E E L E M E N T I N T E R N A L FORCES

COMB DL-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-385.675235	.000000	.000000
.000000	.000000	.000000	
0.25000	-385.675235	.000000	.000000
.000000	.000000	.000000	
0.50000	-385.675235	.000000	.000000
.000000	.000000	.000000	
0.75000	-385.675235	.000000	.000000
.000000	.000000	.000000	
1.00000	-385.675235	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	198.407389	.000000	.000000
.000000	.000000	.000000	
0.25000	198.407389	.000000	.000000
.000000	.000000	.000000	
0.50000	198.407389	.000000	.000000
.000000	.000000	.000000	
0.75000	198.407389	.000000	.000000
.000000	.000000	.000000	
1.00000	198.407389	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-354.152023	.000000	.000000
.000000	.000000	.000000	
0.25000	-354.152023	.000000	.000000
.000000	.000000	.000000	
0.50000	-354.152023	.000000	.000000
.000000	.000000	.000000	
0.75000	-354.152023	.000000	.000000
.000000	.000000	.000000	
1.00000	-354.152023	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	237.977145	.000000	.000000
.000000	.000000	.000000	
0.25000	237.977145	.000000	.000000
.000000	.000000	.000000	
0.50000	237.977145	.000000	.000000
.000000	.000000	.000000	
0.75000	237.977145	.000000	.000000
.000000	.000000	.000000	
1.00000	237.977145	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-947.527337	.000000	.000000
.000000	.000000	.000000	
0.25000	-947.527337	.000000	.000000
.000000	.000000	.000000	
0.50000	-947.527337	.000000	.000000
.000000	.000000	.000000	
0.75000	-947.527337	.000000	.000000
.000000	.000000	.000000	
1.00000	-947.527337	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	113.192629	.000000	.000000
.000000	.000000	.000000	
0.25000	113.192629	.000000	.000000
.000000	.000000	.000000	
0.50000	113.192629	.000000	.000000
.000000	.000000	.000000	
0.75000	113.192629	.000000	.000000
.000000	.000000	.000000	
1.00000	113.192629	.000000	.000000
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5074

F R A M E E L E M E N T I N T E R N A L FORCES

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1145.523	.000000	.000000
.000000	.000000	.000000	
0.25000	-1145.523	.000000	.000000
.000000	.000000	.000000	
0.50000	-1145.523	.000000	.000000
.000000	.000000	.000000	
0.75000	-1145.523	.000000	.000000
.000000	.000000	.000000	
1.00000	-1145.523	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	187.907553	.000000	.000000
.000000	.000000	.000000	
0.25000	187.907553	.000000	.000000
.000000	.000000	.000000	
0.50000	187.907553	.000000	.000000
.000000	.000000	.000000	
0.75000	187.907553	.000000	.000000
.000000	.000000	.000000	
1.00000	187.907553	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1529.730	.000000	.000000
.000000	.000000	.000000	
0.25000	-1529.730	.000000	.000000
.000000	.000000	.000000	
0.50000	-1529.730	.000000	.000000
.000000	.000000	.000000	
0.75000	-1529.730	.000000	.000000
.000000	.000000	.000000	
1.00000	-1529.730	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	225.572471	.000000	.000000
.000000	.000000	.000000	
0.25000	225.572471	.000000	.000000
.000000	.000000	.000000	
0.50000	225.572471	.000000	.000000
.000000	.000000	.000000	
0.75000	225.572471	.000000	.000000
.000000	.000000	.000000	
1.00000	225.572471	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1478.034	.000000	.000000
.000000	.000000	.000000	
0.25000	-1478.034	.000000	.000000
.000000	.000000	.000000	
0.50000	-1478.034	.000000	.000000
.000000	.000000	.000000	
0.75000	-1478.034	.000000	.000000
.000000	.000000	.000000	
1.00000	-1478.034	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	244.757675	.000000	.000000
.000000	.000000	.000000	
0.25000	244.757675	.000000	.000000
.000000	.000000	.000000	
0.50000	244.757675	.000000	.000000
.000000	.000000	.000000	
0.75000	244.757675	.000000	.000000
.000000	.000000	.000000	
1.00000	244.757675	.000000	.000000
.000000	.000000	.000000	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

Page
< MOVING LOAD >
5075

F R A M E E L E M E N T I N T E R N A L FORCES

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1240.285	.000000	.000000
.000000	.000000	.000000	
0.25000	-1240.285	.000000	.000000
.000000	.000000	.000000	
0.50000	-1240.285	.000000	.000000
.000000	.000000	.000000	
0.75000	-1240.285	.000000	.000000
.000000	.000000	.000000	
1.00000	-1240.285	.000000	.000000
.000000	.000000	.000000	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	108.384199	.000000	.000000
.000000	.000000	.000000	
0.25000	108.384199	.000000	.000000
.000000	.000000	.000000	
0.50000	108.384199	.000000	.000000
.000000	.000000	.000000	
0.75000	108.384199	.000000	.000000
.000000	.000000	.000000	
1.00000	108.384199	.000000	.000000
.000000	.000000	.000000	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-757.139271	.000000	.000000
.000000	.000000	.000000	
0.25000	-757.139271	.000000	.000000
.000000	.000000	.000000	
0.50000	-757.139271	.000000	.000000
.000000	.000000	.000000	
0.75000	-757.139271	.000000	.000000
.000000	.000000	.000000	
1.00000	-757.139271	.000000	.000000
.000000	.000000	.000000	

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	244.757675	.000000	.000000
.000000	.000000	.000000	
0.25000	244.757675	.000000	.000000
.000000	.000000	.000000	
0.50000	244.757675	.000000	.000000
.000000	.000000	.000000	
0.75000	244.757675	.000000	.000000
.000000	.000000	.000000	
1.00000	244.757675	.000000	.000000
.000000	.000000	.000000	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1529.730	.000000	.000000
.000000	.000000	.000000	
0.25000	-1529.730	.000000	.000000
.000000	.000000	.000000	
0.50000	-1529.730	.000000	.000000
.000000	.000000	.000000	
0.75000	-1529.730	.000000	.000000
.000000	.000000	.000000	
1.00000	-1529.730	.000000	.000000
.000000	.000000	.000000	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	244.757675	.000000	.000000

.000000 .000000 .000000
0.25000 244.757675 .000000 .000000
.000000 .000000 .000000
0.50000 244.757675 .000000 .000000
.000000 .000000 .000000
0.75000 244.757675 .000000 .000000
.000000 .000000 .000000
1.00000 244.757675 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB CAR ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1529.730 .000000 .000000
.000000 .000000 .000000
0.25000 -1529.730 .000000 .000000
.000000 .000000 .000000
0.50000 -1529.730 .000000 .000000
.000000 .000000 .000000
0.75000 -1529.730 .000000 .000000
.000000 .000000 .000000
1.00000 -1529.730 .000000 .000000
.000000 .000000 .000000

COMB DESIGN ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 244.757675 .000000 .000000
.000000 .000000 .000000
0.25000 244.757675 .000000 .000000
.000000 .000000 .000000
0.50000 244.757675 .000000 .000000
.000000 .000000 .000000
0.75000 244.757675 .000000 .000000
.000000 .000000 .000000
1.00000 244.757675 .000000 .000000
.000000 .000000 .000000

COMB DESIGN ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1529.730 .000000 .000000
.000000 .000000 .000000
0.25000 -1529.730 .000000 .000000
.000000 .000000 .000000
0.50000 -1529.730 .000000 .000000
.000000 .000000 .000000
0.75000 -1529.730 .000000 .000000
.000000 .000000 .000000
1.00000 -1529.730 .000000 .000000
.000000 .000000 .000000

ELEM 498 ========== LENGTH = 1.200000

COMB DB-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 37.835789 .000000 .000000
.000000 .000000 .000000
0.25000 37.835789 .000000 .000000
.000000 .000000 .000000
0.50000 37.835789 .000000 .000000
.000000 .000000 .000000
0.75000 37.835789 .000000 .000000
.000000 .000000 .000000
1.00000 37.835789 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -11.177735 .000000 .000000
.000000 .000000 .000000
0.25000 -11.177735 .000000 .000000
.000000 .000000 .000000
0.50000 -11.177735 .000000 .000000
.000000 .000000 .000000
0.75000 -11.177735 .000000 .000000
.000000 .000000 .000000
1.00000 -11.177735 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 71.194112 .000000 .000000
.000000 .000000 .000000
0.25000 71.194112 .000000 .000000
.000000 .000000 .000000
0.50000 71.194112 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 71.194112 .000000 .000000
.000000 .000000 .000000
1.00000 71.194112 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -32.983073 .000000 .000000
.000000 .000000 .000000
0.25000 -32.983073 .000000 .000000
.000000 .000000 .000000
0.50000 -32.983073 .000000 .000000
.000000 .000000 .000000
0.75000 -32.983073 .000000 .000000
.000000 .000000 .000000
1.00000 -32.983073 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 83.337267 .000000 .000000
.000000 .000000 .000000
0.25000 83.337267 .000000 .000000
.000000 .000000 .000000
0.50000 83.337267 .000000 .000000
.000000 .000000 .000000
0.75000 83.337267 .000000 .000000
.000000 .000000 .000000
1.00000 83.337267 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -129.315637 .000000 .000000
.000000 .000000 .000000
0.25000 -129.315637 .000000 .000000
.000000 .000000 .000000
0.50000 -129.315637 .000000 .000000
.000000 .000000 .000000
0.75000 -129.315637 .000000 .000000
.000000 .000000 .000000
1.00000 -129.315637 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 96.431682 .000000 .000000
.000000 .000000 .000000
0.25000 96.431682 .000000 .000000
.000000 .000000 .000000
0.50000 96.431682 .000000 .000000
.000000 .000000 .000000
0.75000 96.431682 .000000 .000000
.000000 .000000 .000000
1.00000 96.431682 .000000 .000000
.000000 .000000 .000000

COMB DB-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -341.985393 .000000 .000000
.000000 .000000 .000000
0.25000 -341.985393 .000000 .000000
.000000 .000000 .000000
0.50000 -341.985393 .000000 .000000
.000000 .000000 .000000
0.75000 -341.985393 .000000 .000000
.000000 .000000 .000000
1.00000 -341.985393 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 31.257735 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 31.257735 .000000 .000000
.000000 .000000 .000000
0.50000 31.257735 .000000 .000000
.000000 .000000 .000000
0.75000 31.257735 .000000 .000000
.000000 .000000 .000000
1.00000 31.257735 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -50.397457 .000000 .000000
.000000 .000000 .000000
0.25000 -50.397457 .000000 .000000
.000000 .000000 .000000
0.50000 -50.397457 .000000 .000000
.000000 .000000 .000000
0.75000 -50.397457 .000000 .000000
.000000 .000000 .000000
1.00000 -50.397457 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 61.222881 .000000 .000000
.000000 .000000 .000000
0.25000 61.222881 .000000 .000000
.000000 .000000 .000000
0.50000 61.222881 .000000 .000000
.000000 .000000 .000000
0.75000 61.222881 .000000 .000000
.000000 .000000 .000000
1.00000 61.222881 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -201.416079 .000000 .000000
.000000 .000000 .000000
0.25000 -201.416079 .000000 .000000
.000000 .000000 .000000
0.50000 -201.416079 .000000 .000000
.000000 .000000 .000000
0.75000 -201.416079 .000000 .000000
.000000 .000000 .000000
1.00000 -201.416079 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 81.532461 .000000 .000000
.000000 .000000 .000000
0.25000 81.532461 .000000 .000000
.000000 .000000 .000000
0.50000 81.532461 .000000 .000000
.000000 .000000 .000000
0.75000 81.532461 .000000 .000000
.000000 .000000 .000000
1.00000 81.532461 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -189.398603 .000000 .000000
.000000 .000000 .000000
0.25000 -189.398603 .000000 .000000
.000000 .000000 .000000
0.50000 -189.398603 .000000 .000000
.000000 .000000 .000000
0.75000 -189.398603 .000000 .000000
.000000 .000000 .000000
1.00000 -189.398603 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G2-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 96.669382 .000000 .000000
.000000 .000000 .000000
0.25000 96.669382 .000000 .000000
.000000 .000000 .000000
0.50000 96.669382 .000000 .000000
.000000 .000000 .000000
0.75000 96.669382 .000000 .000000
.000000 .000000 .000000
1.00000 96.669382 .000000 .000000
.000000 .000000 .000000

COMB DB-G2-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -486.566744 .000000 .000000
.000000 .000000 .000000
0.25000 -486.566744 .000000 .000000
.000000 .000000 .000000
0.50000 -486.566744 .000000 .000000
.000000 .000000 .000000
0.75000 -486.566744 .000000 .000000
.000000 .000000 .000000
1.00000 -486.566744 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 44.928435 .000000 .000000
.000000 .000000 .000000
0.25000 44.928435 .000000 .000000
.000000 .000000 .000000
0.50000 44.928435 .000000 .000000
.000000 .000000 .000000
0.75000 44.928435 .000000 .000000
.000000 .000000 .000000
1.00000 44.928435 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -585.773660 .000000 .000000
.000000 .000000 .000000
0.25000 -585.773660 .000000 .000000
.000000 .000000 .000000
0.50000 -585.773660 .000000 .000000
.000000 .000000 .000000
0.75000 -585.773660 .000000 .000000
.000000 .000000 .000000
1.00000 -585.773660 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 74.567245 .000000 .000000
.000000 .000000 .000000
0.25000 74.567245 .000000 .000000
.000000 .000000 .000000
0.50000 74.567245 .000000 .000000
.000000 .000000 .000000
0.75000 74.567245 .000000 .000000
.000000 .000000 .000000
1.00000 74.567245 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -770.442290 .000000 .000000
.000000 .000000 .000000
0.25000 -770.442290 .000000 .000000
.000000 .000000 .000000
0.50000 -770.442290 .000000 .000000
.000000 .000000 .000000
0.75000 -770.442290 .000000 .000000
.000000 .000000 .000000
1.00000 -770.442290 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 89.449138 .000000 .000000
.000000 .000000 .000000
0.25000 89.449138 .000000 .000000
.000000 .000000 .000000
0.50000 89.449138 .000000 .000000
.000000 .000000 .000000
0.75000 89.449138 .000000 .000000
.000000 .000000 .000000
1.00000 89.449138 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -757.422506 .000000 .000000
.000000 .000000 .000000
0.25000 -757.422506 .000000 .000000
.000000 .000000 .000000
0.50000 -757.422506 .000000 .000000
.000000 .000000 .000000
0.75000 -757.422506 .000000 .000000
.000000 .000000 .000000
1.00000 -757.422506 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 99.535317 .000000 .000000
.000000 .000000 .000000
0.25000 99.535317 .000000 .000000
.000000 .000000 .000000
0.50000 99.535317 .000000 .000000
.000000 .000000 .000000
0.75000 99.535317 .000000 .000000
.000000 .000000 .000000
1.00000 99.535317 .000000 .000000
.000000 .000000 .000000

COMB DB-G3-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -639.513960 .000000 .000000
.000000 .000000 .000000
0.25000 -639.513960 .000000 .000000
.000000 .000000 .000000
0.50000 -639.513960 .000000 .000000
.000000 .000000 .000000
0.75000 -639.513960 .000000 .000000
.000000 .000000 .000000
1.00000 -639.513960 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 81.923424 .000000 .000000
.000000 .000000 .000000
0.25000 81.923424 .000000 .000000
.000000 .000000 .000000
0.50000 81.923424 .000000 .000000
.000000 .000000 .000000
0.75000 81.923424 .000000 .000000
.000000 .000000 .000000
1.00000 81.923424 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -15.552372 .000000 .000000
.000000 .000000 .000000
0.25000 -15.552372 .000000 .000000
.000000 .000000 .000000
0.50000 -15.552372 .000000 .000000
.000000 .000000 .000000
0.75000 -15.552372 .000000 .000000
.000000 .000000 .000000
1.00000 -15.552372 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G1-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 135.445310 .000000 .000000
.000000 .000000 .000000
0.25000 135.445310 .000000 .000000
.000000 .000000 .000000
0.50000 135.445310 .000000 .000000
.000000 .000000 .000000
0.75000 135.445310 .000000 .000000
.000000 .000000 .000000
1.00000 135.445310 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -51.706671 .000000 .000000
.000000 .000000 .000000
0.25000 -51.706671 .000000 .000000
.000000 .000000 .000000
0.50000 -51.706671 .000000 .000000
.000000 .000000 .000000
0.75000 -51.706671 .000000 .000000
.000000 .000000 .000000
1.00000 -51.706671 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 151.728601 .000000 .000000
.000000 .000000 .000000
0.25000 151.728601 .000000 .000000
.000000 .000000 .000000
0.50000 151.728601 .000000 .000000
.000000 .000000 .000000
0.75000 151.728601 .000000 .000000
.000000 .000000 .000000
1.00000 151.728601 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-3 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -265.236126 .000000 .000000
.000000 .000000 .000000
0.25000 -265.236126 .000000 .000000
.000000 .000000 .000000
0.50000 -265.236126 .000000 .000000
.000000 .000000 .000000
0.75000 -265.236126 .000000 .000000
.000000 .000000 .000000
1.00000 -265.236126 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-4 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 162.545245 .000000 .000000
.000000 .000000 .000000
0.25000 162.545245 .000000 .000000
.000000 .000000 .000000
0.50000 162.545245 .000000 .000000
.000000 .000000 .000000
0.75000 162.545245 .000000 .000000
.000000 .000000 .000000
1.00000 162.545245 .000000 .000000
.000000 .000000 .000000

COMB DL-G1-4 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -715.769443 .000000 .000000
.000000 .000000 .000000
0.25000 -715.769443 .000000 .000000
.000000 .000000 .000000
0.50000 -715.769443 .000000 .000000
.000000 .000000 .000000
0.75000 -715.769443 .000000 .000000
.000000 .000000 .000000
1.00000 -715.769443 .000000 .000000
.000000 .000000 .000000
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1503.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-1 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 52.584301 .000000 .000000
.000000 .000000 .000000
0.25000 52.584301 .000000 .000000
.000000 .000000 .000000
0.50000 52.584301 .000000 .000000
.000000 .000000 .000000
0.75000 52.584301 .000000 .000000
.000000 .000000 .000000
1.00000 52.584301 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-1 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -88.657854 .000000 .000000
.000000 .000000 .000000
0.25000 -88.657854 .000000 .000000
.000000 .000000 .000000
0.50000 -88.657854 .000000 .000000
.000000 .000000 .000000
0.75000 -88.657854 .000000 .000000
.000000 .000000 .000000
1.00000 -88.657854 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-2 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 87.367696 .000000 .000000
.000000 .000000 .000000
0.25000 87.367696 .000000 .000000
.000000 .000000 .000000
0.50000 87.367696 .000000 .000000
.000000 .000000 .000000
0.75000 87.367696 .000000 .000000
.000000 .000000 .000000
1.00000 87.367696 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-2 ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -426.897689 .000000 .000000
.000000 .000000 .000000
0.25000 -426.897689 .000000 .000000
.000000 .000000 .000000
0.50000 -426.897689 .000000 .000000
.000000 .000000 .000000
0.75000 -426.897689 .000000 .000000
.000000 .000000 .000000
1.00000 -426.897689 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-3 ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 136.838586 .000000 .000000

.000000 .000000 .000000
0.25000 136.838586 .000000 .000000
.000000 .000000 .000000
0.50000 136.838586 .000000 .000000
.000000 .000000 .000000
0.75000 136.838586 .000000 .000000
.000000 .000000 .000000
1.00000 136.838586 .000000 .000000
.000000 .000000 .000000

COMB DL-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-394.671542	.000000	.000000
.000000	.000000	.000000	
0.25000	-394.671542	.000000	.000000
.000000	.000000	.000000	
0.50000	-394.671542	.000000	.000000
.000000	.000000	.000000	
0.75000	-394.671542	.000000	.000000
.000000	.000000	.000000	
1.00000	-394.671542	.000000	.000000
.000000	.000000	.000000	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	153.286299	.000000	.000000
.000000	.000000	.000000	
0.25000	153.286299	.000000	.000000
.000000	.000000	.000000	
0.50000	153.286299	.000000	.000000
.000000	.000000	.000000	
0.75000	153.286299	.000000	.000000
.000000	.000000	.000000	
1.00000	153.286299	.000000	.000000
.000000	.000000	.000000	

COMB DL-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1006.743	.000000	.000000
.000000	.000000	.000000	
0.25000	-1006.743	.000000	.000000
.000000	.000000	.000000	
0.50000	-1006.743	.000000	.000000
.000000	.000000	.000000	
0.75000	-1006.743	.000000	.000000
.000000	.000000	.000000	
1.00000	-1006.743	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	61.110923	.000000	.000000
.000000	.000000	.000000	
0.25000	61.110923	.000000	.000000
.000000	.000000	.000000	
0.50000	61.110923	.000000	.000000
.000000	.000000	.000000	
0.75000	61.110923	.000000	.000000
.000000	.000000	.000000	
1.00000	61.110923	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1185.922	.000000	.000000
.000000	.000000	.000000	
0.25000	-1185.922	.000000	.000000
.000000	.000000	.000000	
0.50000	-1185.922	.000000	.000000
.000000	.000000	.000000	
0.75000	-1185.922	.000000	.000000
.000000	.000000	.000000	
1.00000	-1185.922	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	101.875399	.000000	.000000
.000000	.000000	.000000	
0.25000	101.875399	.000000	.000000
.000000	.000000	.000000	
0.50000	101.875399	.000000	.000000
.000000	.000000	.000000	
0.75000	101.875399	.000000	.000000
.000000	.000000	.000000	
1.00000	101.875399	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.25000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.50000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.75000	-1596.402	.000000	.000000
.000000	.000000	.000000	
1.00000	-1596.402	.000000	.000000
.000000	.000000	.000000	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	122.803173	.000000	.000000
.000000	.000000	.000000	
0.25000	122.803173	.000000	.000000
.000000	.000000	.000000	
0.50000	122.803173	.000000	.000000
.000000	.000000	.000000	
0.75000	122.803173	.000000	.000000
.000000	.000000	.000000	
1.00000	122.803173	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1553.876	.000000	.000000
.000000	.000000	.000000	
0.25000	-1553.876	.000000	.000000
.000000	.000000	.000000	
0.50000	-1553.876	.000000	.000000
.000000	.000000	.000000	
0.75000	-1553.876	.000000	.000000
.000000	.000000	.000000	
1.00000	-1553.876	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	149.483172	.000000	.000000
.000000	.000000	.000000	
0.25000	149.483172	.000000	.000000
.000000	.000000	.000000	
0.50000	149.483172	.000000	.000000
.000000	.000000	.000000	
0.75000	149.483172	.000000	.000000
.000000	.000000	.000000	
1.00000	149.483172	.000000	.000000
.000000	.000000	.000000	

COMB DL-G3-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1307.069	.000000	.000000
.000000	.000000	.000000	
0.25000	-1307.069	.000000	.000000
.000000	.000000	.000000	
0.50000	-1307.069	.000000	.000000
.000000	.000000	.000000	
0.75000	-1307.069	.000000	.000000
.000000	.000000	.000000	
1.00000	-1307.069	.000000	.000000
.000000	.000000	.000000	

COMB DB ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	99.535317	.000000	.000000
.000000	.000000	.000000	
0.25000	99.535317	.000000	.000000
.000000	.000000	.000000	
0.50000	99.535317	.000000	.000000
.000000	.000000	.000000	
0.75000	99.535317	.000000	.000000
.000000	.000000	.000000	
1.00000	99.535317	.000000	.000000
.000000	.000000	.000000	

COMB DB ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-770.442290	.000000	.000000
.000000	.000000	.000000	
0.25000	-770.442290	.000000	.000000
.000000	.000000	.000000	
0.50000	-770.442290	.000000	.000000
.000000	.000000	.000000	
0.75000	-770.442290	.000000	.000000
.000000	.000000	.000000	
1.00000	-770.442290	.000000	.000000
.000000	.000000	.000000	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DL ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.25000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.50000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.75000	162.545245	.000000	.000000
.000000	.000000	.000000	
1.00000	162.545245	.000000	.000000
.000000	.000000	.000000	

COMB DL ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.25000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.50000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.75000	-1596.402	.000000	.000000
.000000	.000000	.000000	
1.00000	-1596.402	.000000	.000000
.000000	.000000	.000000	

COMB CAR ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.25000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.50000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.75000	162.545245	.000000	.000000
.000000	.000000	.000000	
1.00000	162.545245	.000000	.000000
.000000	.000000	.000000	

COMB CAR ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.25000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.50000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.75000	-1596.402	.000000	.000000
.000000	.000000	.000000	
1.00000	-1596.402	.000000	.000000
.000000	.000000	.000000	

COMB DESIGN ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.25000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.50000	162.545245	.000000	.000000
.000000	.000000	.000000	
0.75000	162.545245	.000000	.000000
.000000	.000000	.000000	
1.00000	162.545245	.000000	.000000
.000000	.000000	.000000	

COMB DESIGN ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.25000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.50000	-1596.402	.000000	.000000
.000000	.000000	.000000	
0.75000	-1596.402	.000000	.000000
.000000	.000000	.000000	
1.00000	-1596.402	.000000	.000000
.000000	.000000	.000000	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 499 ========== LENGTH = 1.100000

COMB DB-G1-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	52.514565	.000000	.000000
.000000	.000000	.000000	
0.25000	52.514565	.000000	.000000
.000000	.000000	.000000	
0.50000	52.514565	.000000	.000000
.000000	.000000	.000000	
0.75000	52.514565	.000000	.000000
.000000	.000000	.000000	
1.00000	52.514565	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.154331	.000000	.000000
.000000	.000000	.000000	
0.25000	-3.154331	.000000	.000000
.000000	.000000	.000000	
0.50000	-3.154331	.000000	.000000
.000000	.000000	.000000	
0.75000	-3.154331	.000000	.000000
.000000	.000000	.000000	
1.00000	-3.154331	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	84.891067	.000000	.000000
.000000	.000000	.000000	
0.25000	84.891067	.000000	.000000
.000000	.000000	.000000	
0.50000	84.891067	.000000	.000000
.000000	.000000	.000000	
0.75000	84.891067	.000000	.000000
.000000	.000000	.000000	
1.00000	84.891067	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-7.793615	.000000	.000000
.000000	.000000	.000000	
0.25000	-7.793615	.000000	.000000
.000000	.000000	.000000	
0.50000	-7.793615	.000000	.000000
.000000	.000000	.000000	
0.75000	-7.793615	.000000	.000000
.000000	.000000	.000000	
1.00000	-7.793615	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	82.786869	.000000	.000000
.000000	.000000	.000000	
0.25000	82.786869	.000000	.000000
.000000	.000000	.000000	
0.50000	82.786869	.000000	.000000
.000000	.000000	.000000	
0.75000	82.786869	.000000	.000000
.000000	.000000	.000000	
1.00000	82.786869	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-65.774580	.000000	.000000
.000000	.000000	.000000	
0.25000	-65.774580	.000000	.000000
.000000	.000000	.000000	
0.50000	-65.774580	.000000	.000000
.000000	.000000	.000000	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-65.774580	.000000	.000000
.000000	.000000	.000000	
1.00000	-65.774580	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	85.303795	.000000	.000000
.000000	.000000	.000000	
0.25000	85.303795	.000000	.000000
.000000	.000000	.000000	
0.50000	85.303795	.000000	.000000
.000000	.000000	.000000	
0.75000	85.303795	.000000	.000000
.000000	.000000	.000000	
1.00000	85.303795	.000000	.000000
.000000	.000000	.000000	

COMB DB-G1-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-263.976012	.000000	.000000
.000000	.000000	.000000	
0.25000	-263.976012	.000000	.000000
.000000	.000000	.000000	
0.50000	-263.976012	.000000	.000000
.000000	.000000	.000000	
0.75000	-263.976012	.000000	.000000
.000000	.000000	.000000	
1.00000	-263.976012	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	24.019895	.000000	.000000
.000000	.000000	.000000	
0.25000	24.019895	.000000	.000000
.000000	.000000	.000000	
0.50000	24.019895	.000000	.000000
.000000	.000000	.000000	
0.75000	24.019895	.000000	.000000
.000000	.000000	.000000	
1.00000	24.019895	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-17.762745	.000000	.000000
.000000	.000000	.000000	
0.25000	-17.762745	.000000	.000000
.000000	.000000	.000000	
0.50000	-17.762745	.000000	.000000
.000000	.000000	.000000	
0.75000	-17.762745	.000000	.000000
.000000	.000000	.000000	
1.00000	-17.762745	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	38.293295	.000000	.000000
.000000	.000000	.000000	
0.25000	38.293295	.000000	.000000
.000000	.000000	.000000	
0.50000	38.293295	.000000	.000000
.000000	.000000	.000000	
0.75000	38.293295	.000000	.000000
.000000	.000000	.000000	
1.00000	38.293295	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-127.709134	.000000	.000000
.000000	.000000	.000000	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	-127.709134	.000000	.000000
.000000	.000000	.000000	
0.50000	-127.709134	.000000	.000000
.000000	.000000	.000000	
0.75000	-127.709134	.000000	.000000
.000000	.000000	.000000	
1.00000	-127.709134	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	71.094075	.000000	.000000
.000000	.000000	.000000	
0.25000	71.094075	.000000	.000000
.000000	.000000	.000000	
0.50000	71.094075	.000000	.000000
.000000	.000000	.000000	
0.75000	71.094075	.000000	.000000
.000000	.000000	.000000	
1.00000	71.094075	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-3 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-117.016391	.000000	.000000
.000000	.000000	.000000	
0.25000	-117.016391	.000000	.000000
.000000	.000000	.000000	
0.50000	-117.016391	.000000	.000000
.000000	.000000	.000000	
0.75000	-117.016391	.000000	.000000
.000000	.000000	.000000	
1.00000	-117.016391	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	77.039392	.000000	.000000
.000000	.000000	.000000	
0.25000	77.039392	.000000	.000000
.000000	.000000	.000000	
0.50000	77.039392	.000000	.000000
.000000	.000000	.000000	
0.75000	77.039392	.000000	.000000
.000000	.000000	.000000	
1.00000	77.039392	.000000	.000000
.000000	.000000	.000000	

COMB DB-G2-4 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-399.025435	.000000	.000000
.000000	.000000	.000000	
0.25000	-399.025435	.000000	.000000
.000000	.000000	.000000	
0.50000	-399.025435	.000000	.000000
.000000	.000000	.000000	
0.75000	-399.025435	.000000	.000000
.000000	.000000	.000000	
1.00000	-399.025435	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-1 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	28.053794	.000000	.000000
.000000	.000000	.000000	
0.25000	28.053794	.000000	.000000
.000000	.000000	.000000	
0.50000	28.053794	.000000	.000000
.000000	.000000	.000000	
0.75000	28.053794	.000000	.000000
.000000	.000000	.000000	
1.00000	28.053794	.000000	.000000
.000000	.000000	.000000	

F R A M E E L E M E N T I N T E R N A L F O R C E S

COMB DB-G3-1 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-536.600023	.000000	.000000
.000000	.000000	.000000	
0.25000	-536.600023	.000000	.000000
.000000	.000000	.000000	
0.50000	-536.600023	.000000	.000000
.000000	.000000	.000000	
0.75000	-536.600023	.000000	.000000
.000000	.000000	.000000	
1.00000	-536.600023	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	45.546110	.000000	.000000
.000000	.000000	.000000	
0.25000	45.546110	.000000	.000000
.000000	.000000	.000000	
0.50000	45.546110	.000000	.000000
.000000	.000000	.000000	
0.75000	45.546110	.000000	.000000
.000000	.000000	.000000	
1.00000	45.546110	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-2 ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-688.718182	.000000	.000000
.000000	.000000	.000000	
0.25000	-688.718182	.000000	.000000
.000000	.000000	.000000	
0.50000	-688.718182	.000000	.000000
.000000	.000000	.000000	
0.75000	-688.718182	.000000	.000000
.000000	.000000	.000000	
1.00000	-688.718182	.000000	.000000
.000000	.000000	.000000	

COMB DB-G3-3 ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	51.675948	.000000	.000000

```
 .000000     .000000     .000000
0.25000    51.675948     .000000     .000000
 .000000     .000000     .000000
0.50000    51.675948     .000000     .000000
 .000000     .000000     .000000
0.75000    51.675948     .000000     .000000
 .000000     .000000     .000000
1.00000    51.675948     .000000     .000000
 .000000     .000000     .000000

COMB DB-G3-3 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -646.883437     .000000     .000000
 .000000     .000000     .000000
0.25000 -646.883437     .000000     .000000
 .000000     .000000     .000000
0.50000 -646.883437     .000000     .000000
 .000000     .000000     .000000
0.75000 -646.883437     .000000     .000000
 .000000     .000000     .000000
1.00000 -646.883437     .000000     .000000
 .000000     .000000     .000000

COMB DB-G3-4 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    72.783976     .000000     .000000
 .000000     .000000     .000000
0.25000    72.783976     .000000     .000000
 .000000     .000000     .000000
0.50000    72.783976     .000000     .000000
 .000000     .000000     .000000
0.75000    72.783976     .000000     .000000
 .000000     .000000     .000000
1.00000    72.783976     .000000     .000000
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    5090

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DB-G3-4 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -540.718633     .000000     .000000
 .000000     .000000     .000000
0.25000 -540.718633     .000000     .000000
 .000000     .000000     .000000
0.50000 -540.718633     .000000     .000000
 .000000     .000000     .000000
0.75000 -540.718633     .000000     .000000
 .000000     .000000     .000000
1.00000 -540.718633     .000000     .000000
 .000000     .000000     .000000

COMB DL-G1-1 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    69.608679     .000000     .000000
 .000000     .000000     .000000
0.25000    69.608679     .000000     .000000
 .000000     .000000     .000000
0.50000    69.608679     .000000     .000000
 .000000     .000000     .000000
0.75000    69.608679     .000000     .000000
 .000000     .000000     .000000
1.00000    69.608679     .000000     .000000
 .000000     .000000     .000000

COMB DL-G1-1 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000    -5.166497     .000000     .000000
 .000000     .000000     .000000
0.25000    -5.166497     .000000     .000000
 .000000     .000000     .000000
0.50000    -5.166497     .000000     .000000
 .000000     .000000     .000000
0.75000    -5.166497     .000000     .000000
 .000000     .000000     .000000
1.00000    -5.166497     .000000     .000000
 .000000     .000000     .000000

COMB DL-G1-2 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000   109.583702     .000000     .000000
 .000000     .000000     .000000
0.25000   109.583702     .000000     .000000
 .000000     .000000     .000000
0.50000   109.583702     .000000     .000000
 .000000     .000000     .000000
0.75000   109.583702     .000000     .000000
 .000000     .000000     .000000
1.00000   109.583702     .000000     .000000
 .000000     .000000     .000000

COMB DL-G1-2 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -10.291013     .000000     .000000
 .000000     .000000     .000000
0.25000   -10.291013     .000000     .000000
 .000000     .000000     .000000
0.50000   -10.291013     .000000     .000000
 .000000     .000000     .000000
0.75000   -10.291013     .000000     .000000
 .000000     .000000     .000000
1.00000   -10.291013     .000000     .000000
 .000000     .000000     .000000

COMB DL-G1-3 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000   111.197998     .000000     .000000
 .000000     .000000     .000000
0.25000   111.197998     .000000     .000000
 .000000     .000000     .000000
0.50000   111.197998     .000000     .000000
 .000000     .000000     .000000
0.75000   111.197998     .000000     .000000
 .000000     .000000     .000000
1.00000   111.197998     .000000     .000000
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    5091

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G1-3 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -89.143159     .000000     .000000
 .000000     .000000     .000000
0.25000   -89.143159     .000000     .000000
 .000000     .000000     .000000
0.50000   -89.143159     .000000     .000000
 .000000     .000000     .000000
0.75000   -89.143159     .000000     .000000
 .000000     .000000     .000000
1.00000   -89.143159     .000000     .000000
 .000000     .000000     .000000

COMB DL-G1-4 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.25000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.50000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.75000   114.113445     .000000     .000000
 .000000     .000000     .000000
1.00000   114.113445     .000000     .000000
 .000000     .000000     .000000

COMB DL-G1-4 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -302.643150     .000000     .000000
 .000000     .000000     .000000
0.25000 -302.643150     .000000     .000000
 .000000     .000000     .000000
0.50000 -302.643150     .000000     .000000
 .000000     .000000     .000000
0.75000 -302.643150     .000000     .000000
 .000000     .000000     .000000
1.00000 -302.643150     .000000     .000000
 .000000     .000000     .000000

COMB DL-G2-1 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    33.245477     .000000     .000000
 .000000     .000000     .000000
0.25000    33.245477     .000000     .000000
 .000000     .000000     .000000
0.50000    33.245477     .000000     .000000
 .000000     .000000     .000000
0.75000    33.245477     .000000     .000000
 .000000     .000000     .000000
1.00000    33.245477     .000000     .000000
 .000000     .000000     .000000

COMB DL-G2-1 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -19.170823     .000000     .000000
 .000000     .000000     .000000
0.25000   -19.170823     .000000     .000000
 .000000     .000000     .000000
0.50000   -19.170823     .000000     .000000
 .000000     .000000     .000000
0.75000   -19.170823     .000000     .000000
 .000000     .000000     .000000
1.00000   -19.170823     .000000     .000000
 .000000     .000000     .000000

COMB DL-G2-2 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    49.052246     .000000     .000000
 .000000     .000000     .000000
0.25000    49.052246     .000000     .000000
 .000000     .000000     .000000
0.50000    49.052246     .000000     .000000
 .000000     .000000     .000000
0.75000    49.052246     .000000     .000000
 .000000     .000000     .000000
1.00000    49.052246     .000000     .000000
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    5092

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G2-2 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -156.300455     .000000     .000000
 .000000     .000000     .000000
0.25000 -156.300455     .000000     .000000
 .000000     .000000     .000000
0.50000 -156.300455     .000000     .000000
 .000000     .000000     .000000
0.75000 -156.300455     .000000     .000000
 .000000     .000000     .000000
1.00000 -156.300455     .000000     .000000
 .000000     .000000     .000000

COMB DL-G2-3 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    95.580470     .000000     .000000
 .000000     .000000     .000000
0.25000    95.580470     .000000     .000000
 .000000     .000000     .000000
0.50000    95.580470     .000000     .000000
 .000000     .000000     .000000
0.75000    95.580470     .000000     .000000
 .000000     .000000     .000000
1.00000    95.580470     .000000     .000000
 .000000     .000000     .000000

COMB DL-G2-3 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -143.821116     .000000     .000000
 .000000     .000000     .000000
0.25000 -143.821116     .000000     .000000
 .000000     .000000     .000000
0.50000 -143.821116     .000000     .000000
 .000000     .000000     .000000
0.75000 -143.821116     .000000     .000000
 .000000     .000000     .000000
1.00000 -143.821116     .000000     .000000
 .000000     .000000     .000000

COMB DL-G2-4 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000   103.552809     .000000     .000000
 .000000     .000000     .000000
0.25000   103.552809     .000000     .000000
 .000000     .000000     .000000
0.50000   103.552809     .000000     .000000
 .000000     .000000     .000000
0.75000   103.552809     .000000     .000000
 .000000     .000000     .000000
1.00000   103.552809     .000000     .000000
 .000000     .000000     .000000

COMB DL-G2-4 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -445.590200     .000000     .000000
 .000000     .000000     .000000
0.25000 -445.590200     .000000     .000000
 .000000     .000000     .000000
0.50000 -445.590200     .000000     .000000
 .000000     .000000     .000000
0.75000 -445.590200     .000000     .000000
 .000000     .000000     .000000
1.00000 -445.590200     .000000     .000000
 .000000     .000000     .000000

COMB DL-G3-1 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    37.478564     .000000     .000000
 .000000     .000000     .000000
0.25000    37.478564     .000000     .000000
 .000000     .000000     .000000
0.50000    37.478564     .000000     .000000
 .000000     .000000     .000000
0.75000    37.478564     .000000     .000000
 .000000     .000000     .000000
1.00000    37.478564     .000000     .000000
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    5093

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-1 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -576.041397     .000000     .000000
 .000000     .000000     .000000
0.25000 -576.041397     .000000     .000000
 .000000     .000000     .000000
0.50000 -576.041397     .000000     .000000
 .000000     .000000     .000000
0.75000 -576.041397     .000000     .000000
 .000000     .000000     .000000
1.00000 -576.041397     .000000     .000000
 .000000     .000000     .000000

COMB DL-G3-2 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    60.785717     .000000     .000000
 .000000     .000000     .000000
0.25000    60.785717     .000000     .000000
 .000000     .000000     .000000
0.50000    60.785717     .000000     .000000
 .000000     .000000     .000000
0.75000    60.785717     .000000     .000000
 .000000     .000000     .000000
1.00000    60.785717     .000000     .000000
 .000000     .000000     .000000

COMB DL-G3-2 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.25000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.50000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.75000 -752.766472     .000000     .000000
 .000000     .000000     .000000
1.00000 -752.766472     .000000     .000000
 .000000     .000000     .000000

COMB DL-G3-3 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    68.316198     .000000     .000000
 .000000     .000000     .000000
0.25000    68.316198     .000000     .000000
 .000000     .000000     .000000
0.50000    68.316198     .000000     .000000
 .000000     .000000     .000000
0.75000    68.316198     .000000     .000000
 .000000     .000000     .000000
1.00000    68.316198     .000000     .000000
 .000000     .000000     .000000

COMB DL-G3-3 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -709.790518     .000000     .000000
 .000000     .000000     .000000
0.25000 -709.790518     .000000     .000000
 .000000     .000000     .000000
0.50000 -709.790518     .000000     .000000
 .000000     .000000     .000000
0.75000 -709.790518     .000000     .000000
 .000000     .000000     .000000
1.00000 -709.790518     .000000     .000000
 .000000     .000000     .000000

COMB DL-G3-4 ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    96.949367     .000000     .000000
 .000000     .000000     .000000
0.25000    96.949367     .000000     .000000
 .000000     .000000     .000000
0.50000    96.949367     .000000     .000000
 .000000     .000000     .000000
0.75000    96.949367     .000000     .000000
 .000000     .000000     .000000
1.00000    96.949367     .000000     .000000
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    5094

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB DL-G3-4 ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -593.848430     .000000     .000000
 .000000     .000000     .000000
0.25000 -593.848430     .000000     .000000
 .000000     .000000     .000000
0.50000 -593.848430     .000000     .000000
 .000000     .000000     .000000
0.75000 -593.848430     .000000     .000000
 .000000     .000000     .000000
1.00000 -593.848430     .000000     .000000
 .000000     .000000     .000000

COMB DB ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    85.303795     .000000     .000000
 .000000     .000000     .000000
0.25000    85.303795     .000000     .000000
 .000000     .000000     .000000
0.50000    85.303795     .000000     .000000
 .000000     .000000     .000000
0.75000    85.303795     .000000     .000000
 .000000     .000000     .000000
1.00000    85.303795     .000000     .000000
 .000000     .000000     .000000

COMB DB ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -688.718182     .000000     .000000
 .000000     .000000     .000000
0.25000 -688.718182     .000000     .000000
 .000000     .000000     .000000
0.50000 -688.718182     .000000     .000000
 .000000     .000000     .000000
0.75000 -688.718182     .000000     .000000
 .000000     .000000     .000000
1.00000 -688.718182     .000000     .000000
 .000000     .000000     .000000

COMB DL ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.25000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.50000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.75000   114.113445     .000000     .000000
 .000000     .000000     .000000
1.00000   114.113445     .000000     .000000
 .000000     .000000     .000000

COMB DL ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.25000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.50000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.75000 -752.766472     .000000     .000000
 .000000     .000000     .000000
1.00000 -752.766472     .000000     .000000
 .000000     .000000     .000000

COMB CAR ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.25000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.50000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.75000   114.113445     .000000     .000000
 .000000     .000000     .000000
1.00000   114.113445     .000000     .000000
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1503.OUT

                      Page
<              MOVING              LOAD              >
                                    5095

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

COMB CAR ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.25000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.50000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.75000 -752.766472     .000000     .000000
 .000000     .000000     .000000
1.00000 -752.766472     .000000     .000000
 .000000     .000000     .000000

COMB DESIGN ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.25000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.50000   114.113445     .000000     .000000
 .000000     .000000     .000000
0.75000   114.113445     .000000     .000000
 .000000     .000000     .000000
1.00000   114.113445     .000000     .000000
 .000000     .000000     .000000

COMB DESIGN ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.25000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.50000 -752.766472     .000000     .000000
 .000000     .000000     .000000
0.75000 -752.766472     .000000     .000000
 .000000     .000000     .000000
1.00000 -752.766472     .000000     .000000
 .000000     .000000     .000000

<              UNEQUAL          SETTLEMENT          >
                                    1

D I S P L A C E M E N T   D E G R E E S   O F   F R E E D O M

        (A) = Active DOF, equilibrium equation
        (-) =  Restrained  DOF,  reaction computed
        (+) = Constrained DOF
        (>) = External substructure DOF
        ( ) = Null DOF

 JOINTS              U1  U2  U3  R1  R2  R3
    1 TO    270      A   A   A   A   A   A
  271 TO    272      A   -   -   A   A   A
  273               -   -   -   A   A   A
  274 TO    278      A   -   -   A   A   A
  279               -   -   -   A   A   A
  280 TO    282      A   -   -   A   A   A
  283 TO    284      A   A   -   A   A   A
  285               -   A   -   A   A   A
  286 TO    288      A   A   -   A   A   A
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<              UNEQUAL          SETTLEMENT          >
                                    2

T O T A L   A S S E M B L E D   J O I N T   M A S S E S

 IN GLOBAL COORDINATES

              UX          UY          UZ
      RX          RY          RZ
   TOTAL     .000000     .000000     .000000
 .000000     .000000     .000000

T O T A L   A C C E L E R A T E D   M A S S   A N D   L O C A T I O N

 TOTAL MASS ACTIVATED BY ACCELERATION LOADS, IN GLOBAL COORDINATES

              UX          UY          UZ
    MASS     .000000     .000000     .000000
   X-LOC     .000000     .000000     .000000
   Y-LOC     .000000     .000000     .000000
   Z-LOC     .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<              UNEQUAL          SETTLEMENT          >
                                    3

J O I N T   D I S P L A C E M E N T S

 TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

 LOAD     -A1 ------------------

  JOINT          U1          U2          U3
      R1          R2          R3
      1    3.84E-05   -2.89E-05   -0.010000
 3.14E-05   -0.000286    1.47E-06
      2    3.78E-05   -2.27E-05   -0.008712
 3.20E-05   -0.000284    1.23E-06
      3    3.74E-05   -1.78E-05   -0.007305
 3.13E-05   -0.000276    7.56E-07
      4    3.73E-05   -1.48E-05   -0.005945
 2.97E-05   -0.000265    4.88E-07
      5    3.73E-05   -1.25E-05   -0.004656
 2.74E-05   -0.000248    4.15E-07
      6    3.74E-05   -1.04E-05   -0.003461
 2.44E-05   -0.000227    4.28E-07
      7    3.75E-05   -8.18E-06   -0.002384
 2.10E-05   -0.000202    4.37E-07
```

8	3.76E-05	-6.04E-06	-0.001441
1.73E-05	-0.000174	3.98E-07	
9	3.78E-05	-4.21E-06	-0.000647
1.37E-05	-0.000144	3.13E-07	
10	3.80E-05	-2.81E-06	-1.35E-08
1.05E-05	-0.000115	2.45E-07	
11	3.82E-05	-2.01E-06	0.000367
8.71E-06	-9.43E-05	1.99E-07	
12	3.85E-05	-1.22E-06	0.000763
6.45E-06	-6.40E-05	1.05E-07	
13	3.89E-05	-8.53E-07	0.001011
4.57E-06	-3.57E-05	3.79E-08	
14	3.93E-05	-7.15E-07	0.001125
2.93E-06	-9.34E-06	1.27E-08	
15	3.98E-05	-6.18E-07	0.001111
1.49E-06	1.40E-05	1.94E-08	
16	4.02E-05	-4.50E-07	0.000996
3.86E-07	3.13E-05	3.98E-08	
17	4.07E-05	-1.78E-07	0.000810
-4.29E-07	4.24E-05	6.11E-08	
18	4.11E-05	1.84E-07	0.000585
-9.37E-07	4.70E-05	7.71E-08	
19	4.14E-05	6.06E-07	0.000350
-1.19E-06	4.61E-05	8.64E-08	
20	4.16E-05	1.05E-06	0.000133
-1.22E-06	4.07E-05	8.83E-08	
21	4.20E-05	1.36E-06	1.15E-08
-1.13E-06	3.50E-05	8.16E-08	
22	4.20E-05	1.62E-06	-0.000112
-1.05E-06	2.88E-05	7.04E-08	
23	4.19E-05	1.93E-06	-0.000233
-9.68E-07	1.98E-05	5.39E-08	
24	4.15E-05	2.15E-06	-0.000310
-9.18E-07	1.14E-05	3.37E-08	
25	4.19E-05	2.26E-06	-0.000347
-8.79E-07	3.25E-06	8.94E-09	
26	4.18E-05	2.24E-06	-0.000344
-8.23E-07	-4.19E-06	-1.76E-08	
27	4.18E-05	2.09E-06	-0.000308
-7.58E-07	-9.67E-06	-4.18E-08	
28	4.18E-05	1.83E-06	-0.000251
-6.73E-07	-1.32E-05	-6.10E-08	
29	4.18E-05	1.49E-06	-0.000181
-5.70E-07	-1.45E-05	-7.37E-08	
30	4.17E-05	1.11E-06	-0.000108
-4.50E-07	-1.42E-05	-7.94E-08	
31	4.17E-05	7.14E-07	-4.10E-05
-3.14E-07	-1.26E-05	-7.76E-08	
32	4.17E-05	4.55E-07	-3.47E-09
-2.16E-07	-1.09E-05	-7.04E-08	
33	4.17E-05	2.27E-07	3.46E-05
-1.05E-07	-8.96E-06	-6.09E-08	
34	4.18E-05	-4.48E-08	7.23E-05
5.79E-08	-6.16E-06	-4.87E-08	
35	4.16E-05	-2.57E-07	9.64E-05
2.04E-07	-3.56E-06	-3.68E-08	
36	4.16E-05	-4.10E-07	0.000108
3.40E-07	-1.07E-06	-2.49E-08	
37	4.16E-05	-5.04E-07	0.000107
4.58E-07	1.34E-06	-1.34E-08	
38	4.15E-05	-5.41E-07	9.65E-05
5.42E-07	2.94E-06	-1.40E-09	
39	4.15E-05	-5.10E-07	7.87E-05
5.97E-07	4.04E-06	1.47E-08	
40	4.15E-05	-3.79E-07	5.70E-05
6.23E-07	4.50E-06	3.91E-08	
41	4.15E-05	-1.11E-07	3.44E-05
6.38E-07	4.43E-06	6.85E-08	
42	4.15E-05	2.60E-07	1.31E-05
6.69E-07	3.96E-06	7.11E-08	
43	4.15E-05	4.32E-07	1.13E-09
7.27E-07	3.45E-06	1.38E-08	
44	4.15E-05	2.61E-07	-1.54E-05
4.79E-07	2.65E-06	-6.06E-08	
45	4.14E-05	-3.24E-08	-2.67E-05
2.93E-07	1.82E-06	-5.18E-08	
46	4.14E-05	-2.33E-07	-3.38E-05
1.56E-07	1.02E-06	-3.04E-08	
47	4.14E-05	-3.52E-07	-3.71E-05
5.38E-08	2.94E-07	-2.00E-08	
48	4.14E-05	-4.49E-07	-3.69E-05
-2.06E-08	-3.49E-07	-2.06E-08	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	4.14E-05	-5.61E-07	-3.38E-05
-6.78E-08	-8.82E-07	-2.52E-08	
50	4.13E-05	-6.91E-07	-2.83E-05
-8.91E-08	-1.62E-06	-2.62E-08	
51	4.13E-05	-7.98E-07	-2.09E-05
-8.43E-08	-1.62E-06	-1.47E-08	
52	4.13E-05	-8.02E-07	-1.23E-05
-4.97E-08	-1.83E-06	1.63E-08	
53	4.13E-05	-6.21E-07	-2.89E-06
3.82E-08	-1.95E-06	5.53E-08	
54	4.13E-05	-5.33E-07	-1.38E-10
9.56E-08	-1.96E-06	6.06E-08	
55	4.42E-05	-1.55E-05	-0.010000
3.96E-05	-0.000287	-3.12E-07	
56	4.43E-05	-1.66E-05	-0.008713
3.72E-05	-0.000284	-1.02E-07	
57	4.42E-05	-1.61E-05	-0.007308
3.45E-05	-0.000277	2.47E-07	
58	4.40E-05	-1.43E-05	-0.005951
3.17E-05	-0.000266	4.25E-07	
59	4.37E-05	-1.21E-05	-0.004663
2.84E-05	-0.000250	4.76E-07	
60	4.34E-05	-9.67E-06	-0.003469
2.47E-05	-0.000229	4.78E-07	
61	4.31E-05	-7.31E-06	-0.002390
2.07E-05	-0.000204	4.67E-07	
62	4.29E-05	-5.02E-06	-0.001445
1.66E-05	-0.000175	4.49E-07	
63	4.27E-05	-2.89E-06	-0.000648
1.26E-05	-0.000145	3.96E-07	
64	4.25E-05	-1.25E-06	-1.75E-08
9.43E-06	-0.000115	2.36E-07	
65	4.24E-05	-6.60E-07	0.000365
7.39E-06	-9.44E-05	1.18E-07	
66	4.24E-05	-2.54E-07	0.000759
5.12E-06	-6.38E-05	5.44E-08	
67	4.23E-05	-4.22E-08	0.001003
3.44E-06	-3.53E-05	3.27E-08	
68	4.23E-05	9.41E-08	0.001114
2.07E-06	-9.10E-06	2.37E-08	
69	4.22E-05	2.02E-07	0.001100
9.02E-07	1.41E-05	2.24E-08	
70	4.22E-05	3.15E-07	0.000985
1.09E-08	3.11E-05	2.69E-08	
71	4.21E-05	4.59E-07	0.000801
-6.40E-07	4.22E-05	3.45E-08	
72	4.21E-05	6.39E-07	0.000579
-1.03E-06	4.67E-05	4.14E-08	
73	4.21E-05	8.48E-07	0.000347
-1.19E-06	4.58E-05	4.59E-08	
74	4.20E-05	1.08E-06	0.000131
-1.16E-06	4.05E-05	5.11E-08	
75	4.20E-05	1.26E-06	1.22E-08
-1.05E-06	3.50E-05	5.84E-08	
76	4.20E-05	1.47E-06	-0.000111
-9.20E-07	2.87E-05	6.02E-08	
77	4.20E-05	1.74E-06	-0.000231
-8.08E-07	1.96E-05	4.64E-08	
78	4.19E-05	1.92E-06	-0.000307
-7.69E-07	1.12E-05	2.62E-08	
79	4.20E-05	1.99E-06	-0.000342
-7.56E-07	3.16E-06	4.25E-09	
80	4.20E-05	1.96E-06	-0.000339
-7.38E-07	-4.20E-06	-1.73E-08	
81	4.20E-05	1.83E-06	-0.000304
-7.08E-07	-9.62E-06	-3.63E-08	
82	4.20E-05	1.61E-06	-0.000247
-6.54E-07	-1.31E-05	-5.13E-08	
83	4.20E-05	1.33E-06	-0.000178
-5.75E-07	-1.44E-05	-6.08E-08	
84	4.20E-05	1.02E-06	-0.000107
-4.71E-07	-1.41E-05	-6.44E-08	
85	4.20E-05	7.02E-07	-4.04E-05
-3.43E-07	-1.25E-05	-6.33E-08	
86	4.20E-05	4.86E-07	-3.65E-09
-2.42E-07	-1.08E-05	-6.09E-08	
87	4.20E-05	2.83E-07	3.40E-05
-1.40E-07	-8.85E-06	-5.61E-08	
88	4.20E-05	3.12E-08	7.11E-05
1.18E-08	-6.08E-06	-4.54E-08	
89	4.20E-05	-1.64E-07	9.46E-05
1.50E-07	-3.50E-06	-3.37E-08	
90	4.20E-05	-3.03E-07	0.000106
2.71E-07	-1.04E-06	-2.08E-08	
91	4.20E-05	-3.85E-07	0.000105
3.65E-07	1.23E-06	-1.11E-08	
92	4.20E-05	-4.17E-07	9.45E-05
4.11E-07	2.91E-06	-1.93E-09	
93	4.21E-05	-4.14E-07	7.70E-05
4.04E-07	4.01E-06	2.44E-09	
94	4.21E-05	-4.12E-07	5.57E-05
3.40E-07	4.45E-06	-3.46E-09	
95	4.21E-05	-4.71E-07	3.36E-05
2.22E-07	4.39E-06	-2.17E-08	
96	4.21E-05	-6.17E-07	1.28E-05
4.10E-08	3.94E-06	-3.22E-08	
97	4.21E-05	-6.90E-07	6.81E-10
-1.33E-07	3.46E-06	-5.22E-10	
98	4.21E-05	-5.48E-07	-1.52E-05
-8.74E-08	2.68E-06	4.02E-08	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	4.21E-05	-3.93E-07	-2.63E-05
-8.83E-08	1.84E-06	1.99E-08	
100	4.21E-05	-3.56E-07	-3.34E-05
-1.15E-07	1.04E-06	-3.18E-09	
101	4.21E-05	-4.08E-07	-3.66E-05
-1.48E-07	3.16E-07	-1.56E-08	
102	4.21E-05	-4.99E-07	-3.65E-05
-1.89E-07	-3.23E-07	-2.06E-08	
103	4.21E-05	-6.07E-07	-3.34E-05
-2.30E-07	-8.50E-07	-2.28E-08	
104	4.21E-05	-7.26E-07	-2.80E-05
-2.73E-07	-1.27E-06	-2.55E-08	
105	4.21E-05	-8.68E-07	-2.08E-05
-3.19E-07	-1.57E-06	-3.38E-08	
106	4.21E-05	-1.08E-06	-1.23E-05
-3.80E-07	-1.79E-06	-5.44E-08	
107	4.20E-05	-1.42E-06	-2.92E-06
-4.76E-07	-2.04E-06	-8.26E-08	
108	4.20E-05	-1.54E-06	-3.28E-10
-5.30E-07	-1.92E-06	-8.67E-08	
109	4.84E-05	-1.53E-05	-0.010000
3.40E-05	-0.000288	-2.89E-08	
110	4.83E-05	-1.53E-05	-0.008717
3.38E-05	-0.000286	-1.08E-08	
111	4.82E-05	-1.46E-05	-0.007315
3.27E-05	-0.000279	2.07E-07	
112	4.79E-05	-1.32E-05	-0.005959
3.09E-05	-0.000267	3.61E-07	
113	4.75E-05	-1.12E-05	-0.004672
2.84E-05	-0.000251	4.53E-07	
114	4.71E-05	-8.89E-06	-0.003478
2.53E-05	-0.000230	4.81E-07	
115	4.66E-05	-6.56E-06	-0.002398
2.17E-05	-0.000205	4.63E-07	
116	4.62E-05	-4.40E-06	-0.001449
1.79E-05	-0.000177	4.15E-07	
117	4.58E-05	-2.55E-06	-0.000649
1.41E-05	-0.000146	3.53E-07	
118	4.54E-05	-1.12E-06	-2.20E-08
1.08E-05	-0.000116	2.46E-07	
119	4.51E-05	-3.96E-07	0.000364
8.86E-06	-9.43E-05	1.81E-07	
120	4.48E-05	2.95E-07	0.000754
6.48E-06	-6.33E-05	1.10E-07	
121	4.44E-05	6.94E-07	0.000995
4.55E-06	-3.48E-05	6.35E-08	
122	4.41E-05	9.09E-07	0.001103
2.91E-06	-8.74E-06	3.50E-08	
123	4.37E-05	1.01E-06	0.001088
1.50E-06	1.42E-05	1.79E-08	
124	4.34E-05	1.06E-06	0.000975
4.18E-07	3.10E-05	8.67E-09	
125	4.30E-05	1.07E-06	0.000793
-3.76E-07	4.19E-05	5.86E-09	
126	4.27E-05	1.08E-06	0.000572
-8.71E-07	4.64E-05	8.64E-09	
127	4.24E-05	1.12E-06	0.000344
-1.12E-06	4.56E-05	1.50E-08	
128	4.21E-05	1.21E-06	0.000130
-1.18E-06	4.04E-05	2.58E-08	
129	4.19E-05	1.30E-06	1.24E-08
-1.13E-06	3.49E-05	3.15E-08	
130	4.19E-05	1.42E-06	-0.000110
-1.06E-06	2.86E-05	3.30E-08	
131	4.19E-05	1.53E-06	-0.000228
-9.83E-07	1.95E-05	2.74E-08	
132	4.19E-05	1.67E-06	-0.000303
-9.29E-07	1.11E-05	1.55E-08	
133	4.19E-05	1.71E-06	-0.000338
-8.76E-07	3.08E-06	2.24E-10	
134	4.19E-05	1.67E-06	-0.000334
-8.21E-07	-4.21E-06	-1.50E-08	
135	4.19E-05	1.56E-06	-0.000300
-7.54E-07	-9.56E-06	-2.95E-08	
136	4.20E-05	1.39E-06	-0.000243
-6.70E-07	-1.30E-05	-4.06E-08	
137	4.20E-05	1.17E-06	-0.000175
-5.67E-07	-1.43E-05	-4.81E-08	
138	4.20E-05	9.21E-07	-0.000105
-4.46E-07	-1.40E-05	-5.19E-08	
139	4.20E-05	6.67E-07	-3.98E-05
-3.08E-07	-1.23E-05	-5.22E-08	
140	4.20E-05	4.90E-07	-3.68E-09
-2.08E-07	-1.06E-05	-5.03E-08	
141	4.20E-05	3.23E-07	3.35E-05
-1.04E-07	-8.75E-06	-4.64E-08	
142	4.19E-05	1.14E-07	6.98E-05
4.82E-08	-6.00E-06	-3.85E-08	
143	4.19E-05	-5.27E-08	9.29E-05
1.84E-07	-3.45E-06	-2.93E-08	
144	4.19E-05	-1.74E-07	0.000104
3.04E-07	-1.02E-06	-2.02E-08	
145	4.19E-05	-2.53E-07	0.000103
4.07E-07	1.21E-06	-1.25E-08	
146	4.19E-05	-3.02E-07	9.28E-05
4.75E-07	2.87E-06	-8.47E-09	
147	4.19E-05	-3.45E-07	7.57E-05
5.11E-07	3.94E-06	-9.46E-09	
148	4.19E-05	-4.02E-07	5.48E-05
5.21E-07	4.38E-06	-1.42E-08	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	4.19E-05	-4.82E-07	3.31E-05
5.14E-07	4.32E-06	-1.70E-08	
150	4.19E-05	-5.54E-07	1.26E-05
4.93E-07	3.67E-06	-1.02E-08	
151	4.19E-05	-5.72E-07	1.26E-09
4.54E-07	3.38E-06	2.61E-10	
152	4.19E-05	-5.38E-07	-1.48E-05
3.27E-07	2.60E-06	1.22E-08	
153	4.19E-05	-4.71E-07	-2.57E-05
1.85E-07	1.79E-06	1.26E-08	
154	4.19E-05	-4.30E-07	-3.26E-05
6.09E-08	1.02E-06	3.27E-09	
155	4.19E-05	-4.42E-07	-3.59E-05
-3.52E-08	3.11E-07	-7.94E-09	
156	4.19E-05	-5.04E-07	-3.58E-05
-1.07E-07	-3.21E-07	-1.65E-08	
157	4.19E-05	-6.01E-07	-3.28E-05
-1.56E-07	-8.47E-07	-2.28E-08	
158	4.19E-05	-7.29E-07	-2.75E-05
-1.83E-07	-1.27E-06	-3.00E-08	
159	4.19E-05	-8.99E-07	-2.04E-05
-1.87E-07	-1.58E-06	-4.01E-08	
160	4.18E-05	-1.12E-06	-1.20E-05
-1.60E-07	-1.79E-06	-5.98E-08	
161	4.18E-05	-1.40E-06	-2.83E-06
-9.70E-08	-1.91E-06	-5.87E-08	
162	4.18E-05	-1.48E-06	-5.93E-11
-7.91E-08	-1.92E-06	-5.91E-08	
163	4.23E-05	-2.26E-05	-0.009991
3.77E-05	-0.000285	-3.45E-05	
164	4.19E-05	-1.99E-05	-0.008707
3.52E-05	-0.000283	-2.76E-05	
165	4.15E-05	-1.71E-05	-0.007303
3.29E-05	-0.000276	-2.79E-05	
166	4.11E-05	-1.46E-05	-0.005946
3.05E-05	-0.000265	-2.67E-05	
167	4.08E-05	-1.23E-05	-0.004658
2.77E-05	-0.000249	-2.50E-05	
168	4.06E-05	-1.00E-05	-0.003465
2.43E-05	-0.000228	-2.29E-05	
169	4.05E-05	-7.70E-06	-0.002388
2.04E-05	-0.000203	-2.03E-05	
170	4.03E-05	-5.46E-06	-0.001444
1.62E-05	-0.000174	-1.73E-05	
171	4.03E-05	-3.47E-06	-0.000648
1.20E-05	-0.000144	-1.42E-05	
172	4.03E-05	-1.94E-06	-1.26E-06
8.56E-06	-0.000115	-1.02E-05	
173	4.04E-05	-1.26E-06	0.000365
6.84E-06	-9.44E-05	-8.25E-06	
174	4.05E-05	-6.54E-07	0.000760
4.89E-06	-6.40E-05	-5.73E-06	
175	4.06E-05	-3.78E-07	0.001006
3.46E-06	-3.56E-05	-2.77E-06	
176	4.08E-05	-2.62E-07	0.001118
2.20E-06	-9.30E-06	-1.02E-07	
177	4.10E-05	-1.77E-07	0.001105
1.04E-06	1.60E-05	2.22E-06	
178	4.11E-05	-4.94E-08	0.000991
1.15E-07	3.12E-05	3.91E-06	
179	4.13E-05	1.49E-07	0.000806
-5.72E-07	4.22E-05	4.93E-06	
180	4.14E-05	4.11E-07	0.000582
-1.01E-06	4.69E-05	5.27E-06	
181	4.16E-05	7.21E-07	0.000349
-1.19E-06	4.59E-05	5.05E-06	
182	4.17E-05	1.05E-06	0.000132
-1.14E-06	4.06E-05	4.06E-06	
183	4.17E-05	1.30E-06	9.99E-08
-9.45E-07	3.50E-05	3.17E-06	
184	4.18E-05	1.54E-06	-0.000111
-7.70E-07	2.85E-05	2.28E-06	
185	4.18E-05	1.82E-06	-0.000232
-7.01E-07	1.97E-05	2.07E-06	
186	4.18E-05	2.02E-06	-0.000308
-7.31E-07	1.13E-05	1.19E-06	
187	4.18E-05	2.12E-06	-0.000345
-7.56E-07	4.02E-06	5.65E-07	
188	4.19E-05	2.09E-06	-0.000341
-7.51E-07	-4.19E-06	-3.97E-07	
189	4.19E-05	1.95E-06	-0.000306
-7.20E-07	-9.64E-06	-9.45E-07	
190	4.19E-05	1.72E-06	-0.000249
-6.65E-07	-1.31E-05	-1.29E-06	
191	4.19E-05	1.41E-06	-0.000179
-5.86E-07	-1.45E-05	-1.41E-06	
192	4.19E-05	1.06E-06	-0.000108
-4.86E-07	-1.41E-05	-1.37E-06	
193	4.18E-05	7.11E-07	-4.07E-05
-3.68E-07	-1.25E-05	-1.10E-06	
194	4.18E-05	4.72E-07	-4.01E-08
-2.63E-07	-1.08E-05	-8.67E-07	
195	4.18E-05	2.56E-07	3.43E-05
-1.49E-07	-8.90E-06	-7.44E-07	
196	4.18E-05	-4.08E-09	7.16E-05
1.14E-08	-6.12E-06	-4.96E-07	
197	4.18E-05	-2.07E-07	9.54E-05
1.64E-07	-3.53E-06	-2.21E-07	
198	4.18E-05	-3.52E-07	0.000107
2.99E-07	-1.05E-06	4.28E-08	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	4.18E-05	-4.39E-07	0.000106
4.08E-07	1.24E-06	2.89E-07	
200	4.18E-05	-4.72E-07	9.54E-05
4.77E-07	2.93E-06	4.70E-07	
201	4.18E-05	-4.51E-07	7.77E-05
5.03E-07	4.03E-06	5.89E-07	
202	4.18E-05	-3.79E-07	5.61E-05
4.80E-07	4.50E-06	6.38E-07	
203	4.18E-05	-2.66E-07	3.35E-05
4.03E-07	4.44E-06	6.38E-07	
204	4.18E-05	-1.41E-07	1.23E-05
2.76E-07	4.06E-06	5.51E-07	
205	4.18E-05	-7.44E-08	-9.14E-07
1.66E-07	3.48E-06	5.22E-07	
206	4.18E-05	-1.07E-07	-1.59E-05
1.03E-07	2.59E-06	4.91E-07	
207	4.18E-05	-1.88E-07	-2.69E-05
6.91E-08	1.61E-06	4.09E-07	
208	4.18E-05	-2.51E-07	-3.39E-05
1.38E-08	1.01E-06	3.28E-07	
209	4.18E-05	-3.67E-07	-3.71E-05
-4.71E-08	2.95E-07	2.55E-07	
210	4.18E-05	-4.64E-07	-3.69E-05
-1.03E-07	-3.41E-07	1.93E-07	
211	4.18E-05	-5.76E-07	-3.38E-05
-1.46E-07	-1.65E-07	1.44E-07	
212	4.17E-05	-7.00E-07	-2.84E-05
-1.75E-07	-1.28E-06	1.06E-07	
213	4.17E-05	-8.24E-07	-2.11E-05
-1.94E-07	-1.58E-06	7.64E-08	
214	4.17E-05	-9.27E-07	-1.27E-05
-2.17E-07	-1.79E-06	4.98E-08	
215	4.17E-05	-9.97E-07	-3.46E-06
-2.74E-07	-1.85E-06	2.86E-08	
216	4.17E-05	-1.01E-06	-6.68E-07
-3.04E-07	-1.84E-06	3.99E-08	
217	4.58E-05	-1.50E-05	-0.010006
3.59E-05	-0.000288	-3.49E-05	
218	4.59E-05	-1.58E-05	-0.008718
3.55E-05	-0.000285	-2.81E-05	
219	4.58E-05	-1.53E-05	-0.007314
3.38E-05	-0.000278	-2.86E-05	
220	4.56E-05	-1.38E-05	-0.005956
3.13E-05	-0.000267	-2.74E-05	
221	4.53E-05	-1.16E-05	-0.004668
2.83E-05	-0.000250	-2.56E-05	
222	4.50E-05	-9.34E-06	-0.003473
2.47E-05	-0.000229	-2.36E-05	
223	4.47E-05	-7.01E-06	-0.002393
2.07E-05	-0.000205	-2.10E-05	
224	4.44E-05	-4.81E-06	-0.001446
1.64E-05	-0.000176	-1.80E-05	
225	4.41E-05	-2.83E-06	-0.000647
1.20E-05	-0.000146	-1.49E-05	
226	4.38E-05	-1.27E-06	1.41E-06
8.34E-06	-0.000116	-1.07E-05	
227	4.37E-05	-6.52E-07	0.000366
6.70E-06	-9.45E-05	-8.65E-06	
228	4.35E-05	-8.03E-07	0.000758
4.84E-06	-6.35E-05	-6.08E-06	
229	4.33E-05	2.43E-07	0.001000
3.42E-06	-3.50E-05	-3.09E-06	
230	4.32E-05	4.41E-07	0.001110
2.19E-06	-8.88E-06	-4.02E-07	
231	4.30E-05	5.67E-07	0.001095
1.04E-06	1.41E-05	1.96E-06	
232	4.28E-05	6.59E-07	0.000981
1.29E-07	3.11E-05	3.66E-06	
233	4.27E-05	7.51E-07	0.000797
-5.45E-07	4.20E-05	4.72E-06	
234	4.25E-05	8.57E-07	0.000576
-9.64E-07	4.66E-05	5.11E-06	
235	4.24E-05	9.90E-07	0.000345
-1.13E-06	4.57E-05	4.94E-06	
236	4.23E-05	1.15E-06	0.000131
-1.08E-06	4.05E-05	3.99E-06	
237	4.22E-05	1.30E-06	-5.01E-08
-9.25E-07	3.50E-05	3.18E-06	
238	4.22E-05	1.46E-06	-0.000110
-8.10E-07	2.87E-05	2.78E-06	
239	4.21E-05	1.67E-06	-0.000230
-7.44E-07	1.95E-05	2.01E-06	
240	4.21E-05	1.81E-06	-0.000305
-7.44E-07	1.11E-05	1.13E-06	
241	4.21E-05	1.86E-06	-0.000340
-7.59E-07	3.11E-06	3.00E-07	
242	4.20E-05	1.82E-06	-0.000337
-7.48E-07	-4.21E-06	-4.67E-07	
243	4.20E-05	1.70E-06	-0.000302
-7.17E-07	-9.60E-06	-1.02E-06	
244	4.20E-05	1.50E-06	-0.000245
-6.63E-07	-1.30E-05	-1.36E-06	
245	4.20E-05	1.25E-06	-0.000177
-5.83E-07	-1.44E-05	-1.50E-06	
246	4.20E-05	9.70E-07	-0.000106
-4.84E-07	-1.40E-05	-1.47E-06	
247	4.20E-05	6.83E-07	-4.00E-05
-3.68E-07	-1.24E-05	-1.21E-06	
248	4.20E-05	4.86E-07	2.90E-08
-2.69E-07	-1.07E-05	-9.67E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	4.20E-05	2.99E-07	3.38E-05
-1.52E-07	-8.80E-06	-8.59E-07	
250	4.20E-05	6.99E-08	7.05E-05
9.23E-09	-6.04E-06	-6.33E-07	
251	4.20E-05	1.11E-07	9.38E-05
1.52E-07	-3.48E-06	-3.70E-07	
252	4.20E-05	-2.41E-07	0.000105
2.82E-07	-1.03E-06	-1.22E-07	
253	4.20E-05	-3.

1.71E-06	-5.04E-05	-2.80E-07	
12	-0.000192	-1.04E-05	-0.009495
5.52E-06	-0.000111	-8.06E-08	
13	-0.000193	-1.04E-05	-0.008802
8.34E-06	-0.000165	-7.76E-08	
14	-0.000193	-9.83E-06	-0.007865
1.03E-05	-0.000210	1.57E-07	
15	-0.000194	-8.98E-06	-0.006725
1.15E-05	-0.000244	1.77E-07	
16	-0.000194	-8.12E-06	-0.005455
1.18E-05	-0.000262	1.64E-07	
17	-0.000194	-7.36E-06	-0.004136
1.13E-05	-0.000263	1.33E-07	
18	-0.000195	-6.81E-06	-0.002849
1.02E-05	-0.000250	8.12E-08	
19	-0.000195	-6.57E-06	-0.001657
8.64E-06	-0.000225	3.69E-09	
20	-0.000195	-6.75E-06	-0.000617
6.94E-06	-0.000190	-7.59E-08	
21	-0.000195	-7.05E-06	-3.33E-08
5.87E-06	-0.000163	-8.31E-08	
22	-0.000195	-7.30E-06	0.000520
5.25E-06	-0.000134	-7.24E-08	
23	-0.000195	-7.69E-06	0.001085
4.65E-06	-9.22E-05	-8.80E-08	
24	-0.000195	-8.12E-06	0.001445
4.29E-06	-5.29E-05	-7.97E-08	
25	-0.000195	-8.40E-06	0.001616
4.05E-06	-1.52E-05	-2.82E-08	
26	-0.000195	-8.34E-06	0.001602
3.76E-06	1.95E-05	5.13E-08	
27	-0.000195	-7.88E-06	0.001437
3.46E-06	4.50E-05	1.35E-07	
28	-0.000195	-7.02E-06	0.001168
3.07E-06	6.14E-05	2.07E-07	
29	-0.000194	-5.86E-06	0.000842
2.61E-06	6.78E-05	2.57E-07	
30	-0.000194	-4.51E-06	0.000505
2.07E-06	6.62E-05	2.85E-07	
31	-0.000194	-3.08E-06	0.000191
1.45E-06	5.86E-05	2.86E-07	
32	-0.000194	-2.11E-06	1.61E-08
1.00E-06	5.06E-05	2.65E-07	
33	-0.000194	-1.24E-06	-0.000161
4.91E-07	4.17E-05	2.35E-07	
34	-0.000194	-1.74E-07	-0.000337
-2.62E-07	2.87E-05	1.96E-07	
35	-0.000194	6.98E-07	-0.000449
-9.41E-07	1.66E-05	1.55E-07	
36	-0.000194	1.36E-06	-0.000503
-1.57E-06	4.97E-06	1.13E-07	
37	-0.000194	1.81E-06	-0.000500
-2.12E-06	-5.14E-06	6.98E-08	
38	-0.000193	2.04E-06	-0.000450
-2.52E-06	-1.37E-05	2.09E-08	
39	-0.000193	1.98E-06	-0.000367
-2.78E-06	-1.88E-05	-4.87E-08	
40	-0.000193	1.48E-06	-0.000266
-2.90E-06	-2.10E-05	-1.60E-07	
41	-0.000193	3.37E-07	-0.000160
-2.97E-06	-2.07E-05	-2.96E-07	
42	-0.000193	-1.28E-06	-6.12E-05
-3.11E-06	-1.85E-05	-3.11E-07	
43	-0.000193	-2.01E-06	-5.27E-09
-3.38E-06	-1.61E-05	-4.71E-08	
44	-0.000192	-1.15E-06	7.18E-05
-2.23E-06	-1.23E-05	2.94E-07	
45	-0.000193	2.68E-07	0.000124
-1.36E-06	-8.48E-06	2.49E-07	
46	-0.000193	1.23E-06	0.000157
-7.26E-07	-4.76E-06	1.46E-07	
47	-0.000193	1.80E-06	0.000173
-2.50E-07	9.44E-06	1.04E-08	
48	-0.000193	2.25E-06	0.000172
9.72E-08	1.63E-06	9.41E-08	
49	-0.000193	2.76E-06	0.000157
3.17E-07	4.11E-06	1.13E-07	
50	-0.000192	3.34E-06	0.000132
4.17E-07	6.08E-06	1.16E-07	
51	-0.000192	3.81E-06	9.76E-05
3.95E-07	7.53E-06	6.12E-08	
52	-0.000192	3.78E-06	5.74E-05
2.35E-07	8.55E-06	-8.42E-08	
53	-0.000192	2.90E-06	1.35E-05
-1.74E-07	9.09E-06	-2.66E-07	
54	-0.000192	2.48E-06	6.46E-10
-4.41E-07	9.13E-06	-2.90E-07	
55	-0.000199	9.67E-06	-1.89E-08
-5.06E-05	0.000355	6.22E-07	
56	-0.000199	1.18E-05	-0.001593
-4.73E-05	0.000350	2.71E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 10
< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	-0.000199	1.16E-05	-0.003310
-4.35E-05	-3.27E-07	1.11E-07	
58	-0.000198	9.02E-06	-0.004927
-3.91E-05	0.000311	-6.34E-07	
59	-0.000198	5.58E-06	-0.006397
-3.38E-05	0.000276	-7.26E-07	
60	-0.000197	1.93E-06	-0.007670
-2.74E-05	0.000232	-7.37E-07	
61	-0.000197	-1.75E-06	-0.008698
-2.02E-05	0.000179	-7.30E-07	
62	-0.000197	-5.30E-06	-0.009446
-1.25E-05	0.000119	-7.10E-07	
63	-0.000196	-8.64E-06	-0.009881
-5.24E-06	5.55E-05	-6.23E-07	
64	-0.000196	-1.11E-05	-0.010000
5.73E-07	-1.30E-06	-3.21E-07	
65	-0.000196	-1.18E-05	-0.009899
4.28E-06	-5.10E-05	-8.67E-08	
66	-0.000196	-1.18E-05	-0.009491
8.05E-06	-0.000113	5.39E-08	
67	-0.000196	-1.13E-05	-0.008793
1.04E-05	-0.000166	1.11E-07	
68	-0.000196	-1.06E-05	-0.007853
1.18E-05	-0.000211	1.46E-07	
69	-0.000196	-9.83E-06	-0.006712
1.24E-05	-0.000245	1.66E-07	
70	-0.000196	-8.94E-06	-0.005443
1.21E-05	-0.000263	1.72E-07	
71	-0.000196	-8.06E-06	-0.004127
1.10E-05	-0.000265	1.65E-07	
72	-0.000196	-7.23E-06	-0.002842
9.40E-06	-0.000251	1.53E-07	
73	-0.000196	-6.48E-06	-0.001652
7.54E-06	-0.000226	1.34E-07	
74	-0.000196	-5.90E-06	-0.000615
5.74E-06	-0.000191	7.56E-08	
75	-0.000196	-5.78E-06	-3.81E-08
4.82E-06	-0.000163	-3.06E-08	
76	-0.000196	-6.06E-06	0.000516
3.96E-06	-0.000134	-1.16E-07	
77	-0.000196	-6.65E-06	0.001075
3.36E-06	-9.15E-05	-1.15E-07	
78	-0.000196	-7.10E-06	0.001429
3.20E-06	-5.22E-05	-6.60E-08	
79	-0.000196	-7.27E-06	0.001596
3.21E-06	-1.47E-05	-5.91E-09	
80	-0.000196	-7.15E-06	0.001581
3.19E-06	1.96E-05	5.64E-08	
81	-0.000196	-6.72E-06	0.001417
3.12E-06	4.48E-05	1.15E-07	
82	-0.000196	-6.03E-06	0.001151
2.92E-06	6.10E-05	1.65E-07	
83	-0.000196	-5.13E-06	0.000830
2.60E-06	6.72E-05	2.00E-07	
84	-0.000196	-4.10E-06	0.000497
2.15E-06	6.51E-05	2.24E-07	
85	-0.000196	-3.02E-06	0.000188
1.58E-06	5.80E-05	2.21E-07	
86	-0.000196	-2.25E-06	1.70E-08
1.11E-06	5.01E-05	2.22E-07	
87	-0.000196	-1.49E-06	-0.000159
6.54E-07	4.13E-05	2.14E-07	
88	-0.000196	-5.15E-07	-0.000331
-4.35E-08	2.83E-05	1.81E-07	
89	-0.000196	2.82E-07	-0.000441
-6.84E-07	1.63E-05	1.41E-07	
90	-0.000196	8.78E-07	-0.000494
-1.25E-06	4.81E-06	9.94E-08	
91	-0.000196	1.27E-06	-0.000490
-1.69E-06	-5.74E-06	5.85E-08	
92	-0.000196	1.48E-06	-0.000441
-1.90E-06	-1.36E-05	2.35E-08	
93	-0.000196	1.55E-06	-0.000359
-1.88E-06	-1.87E-05	8.29E-09	
94	-0.000197	1.49E-06	-0.000260
-1.58E-06	-2.08E-05	3.84E-08	
95	-0.000196	2.03E-06	-0.000157
-1.03E-06	-2.05E-05	1.23E-07	
96	-0.000196	2.81E-06	-5.98E-05
-1.92E-07	-1.83E-05	1.70E-07	
97	-0.000196	3.22E-06	-3.18E-09
6.19E-07	-1.61E-05	1.48E-08	
98	-0.000196	2.63E-06	7.07E-05
4.05E-07	-1.25E-05	-1.75E-07	
99	-0.000196	1.96E-06	0.000123
4.09E-07	-8.60E-06	-8.43E-08	
100	-0.000196	1.83E-06	0.000155
5.23E-07	-4.86E-06	1.95E-08	
101	-0.000196	2.25E-06	0.000171
6.88E-07	-1.47E-06	7.40E-08	
102	-0.000196	2.50E-06	0.000170
8.78E-07	1.51E-06	9.45E-08	
103	-0.000196	2.99E-06	0.000156
1.07E-06	3.96E-06	1.02E-07	
104	-0.000196	3.52E-06	0.000131
1.27E-06	5.89E-06	1.13E-07	
105	-0.000196	4.16E-06	9.71E-05
1.49E-06	7.33E-06	1.50E-07	
106	-0.000196	5.10E-06	5.75E-05
1.77E-06	8.34E-06	2.45E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 11
< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	-0.000196	6.63E-06	1.36E-05
2.22E-06	8.91E-06	3.75E-07	
108	-0.000196	7.20E-06	1.53E-09
2.47E-06	8.93E-06	3.94E-07	
109	-0.000201	9.87E-06	-1.45E-08
-4.19E-05	0.000356	8.34E-08	
110	-0.000201	1.00E-05	-0.001584
-4.20E-05	0.000351	-3.08E-08	
111	-0.000201	9.26E-06	-0.003292
-4.08E-05	0.000336	-2.91E-07	
112	-0.000201	7.17E-06	-0.004905
-3.81E-05	0.000312	-5.43E-07	
113	-0.000200	4.09E-06	-0.006373
-3.40E-05	0.000278	-6.95E-07	
114	-0.000200	-3.33E-07	-0.007646
-2.85E-05	0.000234	-7.40E-07	
115	-0.000199	-3.04E-06	-0.008678
-2.21E-05	0.000181	-7.09E-07	
116	-0.000198	-6.31E-06	-0.009433
-1.51E-05	0.000121	-6.23E-07	
117	-0.000198	-9.03E-06	-0.009876
-8.18E-06	5.70E-05	-4.85E-07	
118	-0.000197	-1.10E-05	-0.010000
-2.05E-06	-7.24E-06	-3.09E-07	
119	-0.000197	-1.18E-05	-0.009898
1.49E-06	-5.21E-05	-1.80E-07	
120	-0.000197	-1.23E-05	-0.009486
5.54E-06	-0.000114	-2.61E-08	
121	-0.000197	-1.21E-05	-0.008784
8.44E-06	-0.000168	7.76E-08	
122	-0.000196	-1.15E-05	-0.007841
1.05E-05	-0.000213	1.42E-07	
123	-0.000196	-1.07E-05	-0.006699
1.16E-05	-0.000247	1.80E-07	
124	-0.000196	-9.67E-06	-0.005431
1.19E-05	-0.000264	2.00E-07	
125	-0.000196	-8.64E-06	-0.004117
1.13E-05	-0.000266	2.04E-07	
126	-0.000196	-7.63E-06	-0.002834
1.02E-05	-0.000252	1.90E-07	
127	-0.000196	-6.76E-06	-0.001647
8.69E-06	-0.000227	1.51E-07	
128	-0.000196	-6.15E-06	-0.000612
7.05E-06	-0.000191	8.49E-08	
129	-0.000196	-5.94E-06	-4.22E-08
6.07E-06	-0.000163	3.39E-08	
130	-0.000196	-5.88E-06	0.000512
5.37E-06	-0.000133	-2.59E-09	
131	-0.000196	-5.95E-06	0.001065
4.73E-06	-9.07E-05	-2.34E-08	
132	-0.000196	-6.05E-06	0.001413
4.34E-06	-5.16E-05	-1.40E-08	
133	-0.000196	-6.05E-06	0.001577
4.04E-06	-1.43E-05	1.47E-08	
134	-0.000196	-5.89E-06	0.001560
3.76E-06	1.57E-05	5.47E-08	
135	-0.000196	-5.55E-06	0.001398
3.45E-06	4.46E-05	8.67E-08	
136	-0.000196	-5.05E-06	0.001135
3.06E-06	6.05E-05	1.19E-07	
137	-0.000196	-4.41E-06	0.000818
2.60E-06	6.67E-05	1.44E-07	
138	-0.000196	-3.66E-06	0.000490
2.06E-06	6.51E-05	1.62E-07	
139	-0.000196	-2.84E-06	0.000185
1.43E-06	5.75E-05	1.72E-07	
140	-0.000196	-2.24E-06	1.72E-08
9.70E-07	4.96E-05	1.74E-07	
141	-0.000196	-1.65E-06	-0.000156
4.92E-07	4.07E-05	1.67E-07	
142	-0.000196	-8.76E-07	-0.000326
-2.13E-07	2.80E-05	1.47E-07	
143	-0.000196	-2.19E-07	-0.000433
-8.46E-07	1.61E-05	1.20E-07	
144	-0.000196	2.97E-07	-0.000485
-1.41E-06	4.76E-06	9.02E-08	
145	-0.000196	6.75E-07	-0.000481
-1.88E-06	-5.66E-06	6.52E-08	
146	-0.000196	9.62E-07	-0.000433
-2.20E-06	-1.34E-05	5.43E-08	
147	-0.000196	1.24E-06	-0.000353
-2.38E-06	-1.84E-05	6.40E-08	
148	-0.000196	1.62E-06	-0.000255
-2.42E-06	-2.04E-05	8.85E-08	
149	-0.000196	2.10E-06	-0.000154
-2.39E-06	-2.01E-05	1.01E-07	
150	-0.000196	2.54E-06	-5.89E-05
-2.30E-06	-1.80E-05	6.75E-08	
151	-0.000196	2.69E-06	-5.89E-09
-2.11E-06	-1.50E-05	1.08E-08	
152	-0.000196	2.61E-06	6.91E-05
-1.53E-06	-1.21E-05	-4.34E-08	
153	-0.000196	2.35E-06	0.000120
-8.61E-07	-8.36E-06	-4.94E-08	
154	-0.000196	2.20E-06	0.000152
-2.84E-07	-4.75E-06	-9.86E-09	
155	-0.000196	2.27E-06	0.000167
1.63E-07	-1.45E-06	3.88E-08	
156	-0.000196	2.56E-06	0.000167
4.99E-07	1.50E-06	7.56E-08	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 12
< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	-0.000196	3.00E-06	0.000153
7.28E-07	3.95E-06	1.03E-07	
158	-0.000196	3.58E-06	0.000128
8.55E-07	5.90E-06	1.34E-07	
159	-0.000196	4.34E-06	9.51E-05
8.71E-07	7.34E-06	1.80E-07	
160	-0.000195	5.35E-06	5.60E-05
7.49E-07	8.66E-06	2.32E-07	
161	-0.000195	6.57E-06	1.32E-05
4.55E-07	8.90E-06	2.64E-07	
162	-0.000195	6.96E-06	2.78E-10
3.71E-07	8.94E-06	2.66E-07	
163	-0.000198	2.15E-05	-1.38E-05
-4.68E-05	0.000354	4.33E-05	
164	-0.000197	1.73E-05	-0.001604
-4.40E-05	0.000349	3.45E-05	
165	-0.000196	1.31E-05	-0.003320
-4.10E-05	0.000334	3.42E-05	
166	-0.000196	9.43E-06	-0.004938
-3.74E-05	0.000310	3.16E-05	
167	-0.000195	6.01E-06	-0.006409
-3.27E-05	0.000275	2.82E-05	
168	-0.000195	2.53E-06	-0.007680
-2.67E-05	0.000231	2.34E-05	
169	-0.000194	-1.05E-06	-0.008705
-1.97E-05	0.000178	1.79E-05	
170	-0.000194	-4.54E-06	-0.009449
-1.18E-05	0.000118	1.16E-05	
171	-0.000194	-7.82E-06	-0.009880
-4.11E-06	5.48E-05	4.82E-06	
172	-0.000194	-9.86E-06	-0.009998
2.33E-06	-7.33E-06	-1.74E-06	
173	-0.000194	-1.08E-05	-0.009896
5.35E-06	-5.06E-05	-5.96E-06	
174	-0.000194	-1.13E-05	-0.009491
8.54E-06	-0.000112	-1.30E-05	
175	-0.000194	-1.10E-05	-0.008796
1.04E-05	-0.000165	-1.86E-05	
176	-0.000195	-1.03E-05	-0.007858
1.16E-05	-0.000210	-2.33E-05	
177	-0.000195	-9.44E-06	-0.006718
1.22E-05	-0.000245	-2.60E-05	
178	-0.000195	-8.54E-06	-0.005449
1.19E-05	-0.000262	-2.86E-05	
179	-0.000195	-7.70E-06	-0.004132
1.09E-05	-0.000264	-2.86E-05	
180	-0.000195	-6.97E-06	-0.002846
9.30E-06	-0.000251	-2.70E-05	
181	-0.000195	-6.46E-06	-0.001656
7.25E-06	-0.000226	-2.43E-05	
182	-0.000195	-6.22E-06	-0.000618
5.21E-06	-0.000191	-1.90E-05	
183	-0.000195	-6.35E-06	-1.17E-06
4.00E-06	-0.000163	-1.50E-05	
184	-0.000195	-6.62E-06	0.000516
3.31E-06	-0.000134	-1.35E-05	
185	-0.000195	-7.10E-06	0.001079
3.00E-06	-9.19E-05	-9.83E-06	
186	-0.000195	-7.54E-06	0.001436
3.16E-06	-5.26E-05	-5.68E-06	
187	-0.000195	-7.79E-06	0.001605
3.30E-06	-1.50E-05	-1.79E-06	
188	-0.000195	-7.72E-06	0.001591
3.32E-06	1.95E-05	1.80E-06	
189	-0.000195	-7.28E-06	0.001427
3.22E-06	4.49E-05	4.38E-06	
190	-0.000195	-6.52E-06	0.001159
3.00E-06	6.10E-05	6.00E-06	
191	-0.000195	-5.49E-06	0.000836
2.67E-06	6.75E-05	6.58E-06	
192	-0.000195	-4.31E-06	0.000501
2.24E-06	6.59E-05	6.36E-06	
193	-0.000195	-3.06E-06	0.000190
1.71E-06	5.83E-05	5.13E-06	
194	-0.000195	-2.19E-06	1.81E-07
1.24E-06	4.80E-05	4.00E-06	
195	-0.000195	-1.37E-06	-0.000160
7.12E-07	4.15E-05	3.44E-06	
196	-0.000195	-3.56E-07	-0.000334
-3.56E-08	2.85E-05	2.27E-06	
197	-0.000195	4.76E-07	-0.000445
-7.48E-07	1.65E-05	9.75E-07	
198	-0.000195	1.10E-06	-0.000498
-1.38E-06	4.89E-06	-2.62E-07	
199	-0.000195	1.52E-06	-0.000494
-1.89E-06	-5.76E-06	-1.41E-06	
200	-0.000195	1.72E-06	-0.000444
-2.21E-06	-1.37E-05	-2.27E-06	
201	-0.000195	1.71E-06	-0.000362
-2.34E-06	-1.88E-05	-2.82E-06	
202	-0.000195	1.48E-06	-0.000261
-2.23E-06	-2.10E-05	-3.06E-06	
203	-0.000195	1.07E-06	-0.000156
-1.88E-06	-2.07E-05	-3.05E-06	
204	-0.000195	5.93E-07	-5.74E-05
-1.29E-06	-1.88E-05	-2.68E-06	
205	-0.000195	3.48E-07	4.25E-06
-7.77E-07	-1.62E-05	-2.50E-06	
206	-0.000195	5.75E-07	7.41E-05
-4.81E-07	-1.21E-05	-2.36E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 13
< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	-0.000195	1.00E-06	0.000125
-3.23E-07	-8.43E-06	-1.98E-06	
208	-0.000195	1.45E-06	0.000158
-6.52E-08	-4.71E-06	-1.59E-06	
209	-0.000195	1.88E-06	0.000173
2.19E-07	-1.37E-06	-1.25E-06	
210	-0.000195	2.33E-06	0.000172
4.81E-07	1.59E-06	-9.60E-07	
211	-0.000195	2.84E-06	0.000157
6.82E-07	4.10E-06	-7.25E-07	
212	-0.000194	3.39E-06	0.000132
8.17E-07	5.96E-06	-5.49E-07	
213	-0.000194	3.93E-06	9.86E-05
9.02E-07	7.36E-06	-4.12E-07	
214	-0.000194	4.38E-06	5.91E-05
1.01E-06	8.46E-06	-3.13E-07	
215	-0.000195	4.66E-06	1.61E-05
1.28E-06	8.64E-06	-1.73E-07	
216	-0.000195	4.70E-06	3.11E-06
1.42E-06	8.59E-06	-2.33E-07	
217	-0.000199	9.21E-06	9.31E-06
-4.35E-05	0.000357	4.39E-05	
218	-0.000197	1.07E-05	-0.001583
-4.42E-05	0.000351	3.53E-05	
219	-0.000199	1.03E-05	-0.003298
-4.23E-05	0.000336	3.53E-05	
220	-0.000199	8.07E-06	-0.004915
-3.87E-05	0.000311	3.29E-05	
221	-0.000199	4.86E-06	-0.006385
-3.31E-05	0.000277	2.36E-05	
222	-0.000198	1.33E-06	-0.007659
-2.74E-05	0.000233	2.47E-05	
223	-0.000198	-2.24E-06	-0.008690
-2.02E-05	0.000180	1.92E-05	
224	-0.000197	-5.63E-06	-0.009442
-1.22E-05	0.000121	1.28E-05	
225	-0.000197	-8.64E-06	-0.009881
-4.04E-06	5.64E-05	5.95E-06	
226	-0.000197	-1.09E-05	-0.010003
2.78E-06	-6.95E-06	-8.96E-07	
227	-0.000197	-1.16E-05	-0.009901
5.63E-06	-5.13E-05	-5.28E-06	
228	-0.000196	-1.18E-05	-0.009491
8.65E-06	0.000113	-1.24E-05	
229	-0.000196	-1.16E-05	-0.008791
1.05E-05	-0.000167	-1.80E-05	
230	-0.000196	-1.10E-05	-0.007848
1.17E-05	-0.000212	-2.28E-05	
231	-0.000196	-1.02E-05	-0.006706
1.22E-05	-0.000246	-2.82E-05	
232	-0.000196	-9.29E-06	-0.005437
1.20E-05	-0.000264	-2.82E-05	
233	-0.000196	-8.38E-06	-0.004121
1.10E-05	-0.000265	-2.83E-05	
234	-0.000196	-7.49E-06	-0.002837
9.28E-06	-0.000252	-2.68E-05	
235	-0.000196	-6.71E-06	-0.001648
7.16E-06	-0.000227	-2.42E-05	
236	-0.000196	-6.09E-06	-0.000612
4.97E-06	-0.000191	-1.89E-05	
237	-0.000196	-5.95E-06	1.21E-06
3.74E-06	-0.000163	-1.49E-05	
238	-0.000196	-6.09E-06	0.000515
3.28E-06	-0.000134	-1.32E-05	
239	-0.000196	-6.40E-06	0.001071
3.08E-06	-9.11E-05	-9.60E-06	
240	-0.000196	-6.65E-06	0.001422
3.17E-06	-5.16E-05	-5.44E-06	
241	-0.000196	-6.72E-06	0.001587
3.32E-06	-1.45E-05	-1.53E-06	
242	-0.000196	-6.56E-06	0.001571
3.31E-06	1.97E-05	2.07E-06	
243	-0.000196	-6.16E-06	0.001408
3.21E-06	4.48E-05	4.68E-06	
244	-0.000196	-5.55E-06	0.001143
3.00E-06	6.07E-05	6.34E-06	
245	-0.000196	-4.77E-06	0.000824
2.66E-06	6.71E-05	6.96E-06	
246	-0.000196	-3.87E-06	0.000493
2.22E-06	6.54E-05	6.80E-06	
247	-0.000196	-2.92E-06	0.000187
1.71E-06	5.78E-05	5.57E-06	
248	-0.000196	-2.24E-06	-1.21E-07
1.26E-06	4.99E-05	4.44E-06	
249	-0.000196	-1.56E-06	-0.000158
7.21E-07	4.10E-05	3.93E-06	
250	-0.000196	-6.84E-07	-0.000329
-2.49E-08	2.81E-05	2.66E-06	
251	-0.000196	4.30E-08	-0.000437
-6.92E-07	1.62E-05	1.53E-06	
252	-0.000196	6.00E-07	-0.000489
-1.30E-06	4.80E-06	4.64E-07	
253	-0.000196	9.88E-07	-0.000486
-1.76E-06	-5.68E-06	-6.12E-07	
254	-0.000196	1.24E-06	-0.000437
-2.02E-06	-1.44E-05	-1.40E-06	
255	-0.000196	1.43E-06	-0.000357
-2.09E-06	-1.84E-05	-1.91E-06	
256	-0.000196	1.69E-06	-0.000259
-1.97E-06	-2.05E-05	-2.12E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 14
< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	-0.000196	2.15E-06	-0.000157
-1.81E-06	-2.02E-05	-2.12E-06	
258	-0.000196	2.41E-06	-6.16E-05
-1.76E-06	-1.79E-05	-1.74E-06	
259	-0.000196	3.12E-06	-2.94E-06
-1.93E-06	-1.58E-05	-1.43E-06	
260	-0.000196	2.74E-06	6.78E-05
-9.96E-07	-1.25E-05	-1.06E-06	
261	-0.000196	2.24E-06	0.000120
-3.03E-07	-8.58E-06	-6.90E-07	
262	-0.000196	2.06E-06	0.000153
1.40E-07	-4.89E-06	-3.55E-07	
263	-0.000196	2.21E-06	0.000168
4.53E-07	-1.51E-06	-3.42E-08	
264	-0.000196	2.55E-06	0.000168
7.02E-07	1.48E-06	2.66E-07	
265	-0.000196	3.02E-06	0.000154
9.12E-07	3.96E-06	5.20E-07	
266	-0.000196	3.57E-06	0.000129
1.09E-06	5.92E-06	7.18E-07	
267	-0.000196	4.28E-06	9.55E-05
1.23E-06	7.39E-06	8.47E-07	
268	-0.000196	5.28E-06	5.57E-05
1.26E-06	8.47E-06	9.17E-07	
269	-0.000195	6.70E-06	1.15E-05
9.79E-07	9.17E-06	7.31E-07	
270	-0.000195	7.21E-06

15	4.65E-06	6.12E-06	-0.005457
-1.77E-05	0.000264	-1.09E-07	
16	4.55E-06	5.39E-06	-0.006738
-1.60E-05	0.000246	-1.70E-07	
17	4.42E-06	4.41E-06	-0.007887
-1.33E-05	0.000211	-2.06E-07	
18	4.26E-06	3.37E-06	-0.008828
-1.02E-05	0.000165	-1.91E-07	
19	4.08E-06	2.57E-06	-0.009519
-6.93E-06	0.000110	-1.07E-07	
20	3.87E-06	2.32E-06	-0.009912
-3.76E-06	4.72E-05	6.38E-09	
21	3.72E-06	2.40E-06	-0.010000
-2.00E-06	3.10E-06	2.35E-08	
22	3.56E-06	2.47E-06	-0.009934
-1.16E-06	-4.10E-05	3.98E-08	
23	3.30E-06	2.94E-06	-0.009572
-6.16E-07	-0.000104	1.50E-07	
24	3.04E-06	3.92E-06	-0.008911
-6.49E-07	-0.000159	2.28E-07	
25	2.78E-06	5.11E-06	-0.007996
-1.05E-06	-0.000208	2.33E-07	
26	2.55E-06	6.18E-06	-0.006856
-1.60E-06	-0.000246	1.83E-07	
27	2.36E-06	6.93E-06	-0.005569
-2.24E-06	-0.000267	1.07E-07	
28	2.22E-06	7.27E-06	-0.004226
-2.82E-06	-0.000269	1.88E-08	
29	2.13E-06	7.14E-06	-0.002913
-3.22E-06	-0.000256	-8.31E-08	
30	2.07E-06	6.45E-06	-0.001696
-3.36E-06	-0.000230	-2.04E-07	
31	2.05E-06	5.15E-06	-0.000633
-3.13E-06	-0.000195	-3.21E-07	
32	2.01E-06	3.97E-06	-3.40E-08
-2.70E-06	-0.000167	-3.50E-07	
33	2.00E-06	2.75E-06	0.000533
-1.76E-06	-0.000138	-3.59E-07	
34	1.98E-06	1.66E-06	0.001115
-6.90E-08	-9.52E-05	-3.95E-07	
35	1.98E-06	-1.12E-06	0.001487
1.66E-06	-5.51E-05	-3.96E-07	
36	1.98E-06	-2.99E-06	0.001667
3.39E-06	-1.65E-05	-3.44E-07	
37	1.99E-06	-4.49E-06	0.001656
4.91E-06	1.91E-05	-2.54E-07	
38	2.01E-06	-5.51E-06	0.001490
5.91E-06	4.55E-05	-1.55E-07	
39	2.05E-06	-6.07E-06	0.001215
6.33E-06	6.26E-05	-7.04E-08	
40	2.09E-06	-6.29E-06	0.000880
6.12E-06	6.97E-05	-1.83E-08	
41	2.12E-06	-6.32E-06	0.000531
5.37E-06	6.87E-05	5.61E-09	
42	2.15E-06	-6.20E-06	0.000203
4.14E-06	6.16E-05	5.61E-08	
43	2.19E-06	-5.84E-06	1.50E-08
3.04E-06	5.40E-05	1.77E-07	
44	2.27E-06	-4.51E-06	-0.000239
1.92E-06	3.19E-05	3.19E-07	
45	2.38E-06	-2.93E-06	-0.000415
6.65E-07	2.88E-05	3.05E-07	
46	2.47E-06	-1.54E-06	-0.000526
-5.75E-07	1.63E-05	2.53E-07	
47	2.54E-06	-4.09E-07	-0.000578
-1.68E-06	1.05E-05	2.05E-07	
48	2.60E-06	5.17E-07	-0.000577
-2.62E-06	-5.05E-06	1.67E-07	
49	2.64E-06	1.27E-06	-0.000529
-3.33E-06	-1.34E-05	1.36E-07	
50	2.67E-06	1.89E-06	-0.000443
-3.81E-06	-2.00E-05	1.12E-07	
51	2.70E-06	2.41E-06	-0.000329
-4.05E-06	-2.49E-05	1.02E-07	
52	2.74E-06	2.94E-06	-0.000194
-4.09E-06	-2.84E-05	1.15E-07	
53	2.79E-06	3.58E-06	-4.57E-05
-3.88E-06	-3.03E-05	1.39E-07	
54	2.81E-06	3.79E-06	-2.89E-09
-3.77E-06	-3.04E-05	1.44E-07	
55	4.92E-06	-5.50E-06	1.17E-08
1.23E-05	-8.94E-05	-9.51E-08	
56	4.94E-06	-5.79E-06	0.000397
1.20E-05	-8.57E-05	-1.23E-08	
57	4.89E-06	-5.45E-06	0.000802
1.12E-05	-7.50E-05	1.35E-07	
58	4.77E-06	-4.52E-06	0.001139
9.65E-06	-5.84E-05	2.29E-07	
59	4.61E-06	-3.24E-06	0.001376
7.17E-06	-3.48E-05	2.83E-07	
60	4.44E-06	-1.75E-06	0.001478
3.80E-06	-4.28E-06	3.22E-07	
61	4.26E-06	-7.32E-08	0.001413
-2.51E-07	3.15E-05	3.56E-07	
62	4.08E-06	1.75E-06	0.001156
-4.77E-06	7.27E-05	3.82E-07	
63	3.90E-06	3.62E-06	0.000686
-9.24E-06	0.000116	3.69E-07	
64	3.76E-06	5.16E-06	-3.81E-08
-1.30E-05	0.000159	2.31E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

< UNEQUAL Page SETTLEMENT 16 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	3.71E-06	5.71E-06	-0.000605
-1.54E-05	0.000188	1.10E-07	
66	3.67E-06	6.00E-06	-0.001636
-1.77E-05	0.000225	2.81E-08	
67	3.65E-06	5.98E-06	-0.002827
-1.88E-05	0.000252	-1.87E-08	
68	3.65E-06	5.74E-06	-0.004118
-1.88E-05	0.000266	-6.59E-08	
69	3.66E-06	5.25E-06	-0.005444
-1.76E-05	0.000265	-1.15E-07	
70	3.68E-06	4.53E-06	-0.006723
-1.54E-05	0.000247	-1.59E-07	
71	3.71E-06	3.62E-06	-0.007873
-1.22E-05	0.000213	-1.94E-07	
72	3.75E-06	2.55E-06	-0.008817
-8.47E-06	0.000167	-2.22E-07	
73	3.78E-06	1.40E-06	-0.009513
-4.75E-06	0.000112	-2.31E-07	
74	3.80E-06	3.60E-07	-0.009911
-1.50E-06	5.28E-05	-1.61E-07	
75	3.80E-06	6.54E-08	-0.010000
-5.29E-08	3.17E-06	2.24E-08	
76	3.78E-06	5.13E-07	-0.009933
1.18E-06	-4.19E-05	2.05E-07	
77	3.75E-06	1.76E-06	-0.009566
1.66E-06	-0.000105	2.71E-07	
78	3.72E-06	3.10E-06	-0.008900
1.20E-06	-0.000161	2.55E-07	
79	3.69E-06	4.30E-06	-0.007981
2.47E-07	-0.000209	2.17E-07	
80	3.68E-06	5.30E-06	-0.006840
-9.07E-07	-0.000248	1.70E-07	
81	3.67E-06	6.04E-06	-0.005555
-2.10E-06	-0.000268	1.14E-07	
82	3.66E-06	6.50E-06	-0.004214
-3.19E-06	-0.000270	5.19E-08	
83	3.65E-06	6.64E-06	-0.002904
-4.03E-06	-0.000256	-8.22E-09	
84	3.64E-06	6.49E-06	-0.001689
-4.50E-06	-0.000231	-6.82E-08	
85	3.63E-06	5.97E-06	-0.000630
-4.35E-06	-0.000195	-1.64E-07	
86	3.60E-06	5.21E-06	-3.87E-08
-3.73E-06	-0.000167	-2.93E-07	
87	3.57E-06	3.98E-06	0.000529
-3.01E-06	-0.000138	-4.00E-07	
88	3.51E-06	1.92E-06	0.001104
-1.31E-06	-9.44E-05	-4.21E-07	
89	3.44E-06	-7.54E-08	0.001470
6.44E-07	-5.44E-05	-3.85E-07	
90	3.37E-06	-1.85E-06	0.001645
2.65E-06	-1.61E-05	-3.29E-07	
91	3.31E-06	-3.31E-06	0.001633
4.48E-06	1.91E-05	-2.60E-07	
92	3.25E-06	-4.42E-06	0.001469
5.77E-06	4.52E-05	-1.85E-07	
93	3.21E-06	-5.15E-06	0.001198
6.48E-06	6.21E-05	-1.05E-07	
94	3.19E-06	-5.47E-06	0.000867
6.56E-06	6.91E-05	-1.68E-08	
95	3.19E-06	-5.33E-06	0.000523
6.15E-06	6.81E-05	8.01E-08	
96	3.23E-06	-4.73E-06	0.000200
5.34E-06	6.09E-05	1.56E-07	
97	3.27E-06	-4.20E-06	1.68E-08
4.63E-06	5.53E-05	1.97E-07	
98	3.32E-06	-3.66E-06	-0.000235
3.02E-06	4.10E-05	1.07E-07	
99	3.38E-06	-3.03E-06	-0.000407
1.43E-06	2.83E-05	1.51E-07	
100	3.46E-06	-2.19E-06	-0.000516
-4.62E-08	1.60E-05	1.85E-07	
101	3.55E-06	-1.25E-06	-0.000567
-1.32E-06	4.85E-06	1.91E-07	
102	3.65E-06	-3.37E-07	-0.000565
-2.38E-06	-5.04E-06	1.80E-07	
103	3.74E-06	5.05E-07	-0.000518
-3.18E-06	-1.32E-05	1.61E-07	
104	3.83E-06	1.25E-06	-0.000434
-3.72E-06	-1.97E-05	1.40E-07	
105	3.91E-06	1.88E-06	-0.000322
-4.02E-06	-2.45E-05	1.13E-07	
106	3.97E-06	2.35E-06	-0.000190
-4.11E-06	-2.79E-05	7.38E-08	
107	4.01E-06	2.60E-06	-4.48E-05
-4.02E-06	-2.98E-05	2.55E-08	
108	4.02E-06	2.63E-06	-2.91E-09
-4.00E-06	-2.99E-05	1.77E-08	
109	3.42E-06	-5.75E-06	1.00E-08
1.13E-05	-8.83E-05	8.82E-08	
110	3.36E-06	-5.31E-06	0.000390
1.16E-05	-8.47E-05	1.17E-07	
111	3.24E-06	-4.58E-06	0.000788
1.11E-05	-7.43E-05	1.82E-07	
112	3.08E-06	-3.52E-06	0.001120
9.84E-06	-5.79E-05	2.48E-07	
113	2.89E-06	-2.18E-06	0.001355
7.67E-06	-3.47E-05	2.95E-07	
114	2.67E-06	-6.66E-07	0.001457
4.61E-06	-1.52E-05	3.20E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

< UNEQUAL Page SETTLEMENT 17 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	2.46E-06	9.12E-07	0.001394
8.96E-07	3.12E-05	3.23E-07	
116	2.26E-06	2.45E-06	0.001143
-3.31E-06	7.20E-05	3.03E-07	
117	2.10E-06	3.81E-06	0.000680
-7.62E-06	0.000116	2.51E-07	
118	1.99E-06	4.85E-06	-4.24E-08
-1.16E-05	0.000159	1.73E-07	
119	1.95E-06	5.32E-06	-0.000603
-1.39E-05	0.000189	1.05E-07	
120	1.95E-06	5.59E-06	-0.001631
-1.64E-05	0.000226	1.17E-08	
121	2.01E-06	5.45E-06	-0.002819
-1.79E-05	0.000253	-5.76E-08	
122	2.14E-06	5.02E-06	-0.004107
-1.84E-05	0.000267	-1.08E-07	
123	2.31E-06	4.37E-06	-0.005430
-1.78E-05	0.000266	-1.46E-07	
124	2.54E-06	3.57E-06	-0.006709
-1.61E-05	0.000249	-1.74E-07	
125	2.80E-06	2.66E-06	-0.007859
-1.35E-05	0.000214	-1.90E-07	
126	3.08E-06	1.72E-06	-0.008806
-1.05E-05	0.000168	-1.86E-07	
127	3.37E-06	8.81E-07	-0.009507
-7.22E-06	0.000113	-1.47E-07	
128	3.63E-06	2.51E-07	-0.009909
-4.11E-06	4.92E-05	-6.10E-08	
129	3.80E-06	2.82E-07	-0.010000
-2.44E-06	3.10E-06	2.06E-08	
130	3.97E-06	5.00E-07	-0.009931
-1.40E-06	-4.31E-05	1.01E-07	
131	4.22E-06	1.24E-06	-0.009559
-7.20E-07	-0.000107	1.83E-07	
132	4.46E-06	2.25E-06	-0.008888
-6.90E-07	-0.000163	2.15E-07	
133	4.71E-06	3.33E-06	-0.007966
-1.02E-06	-0.000211	2.10E-07	
134	4.94E-06	4.33E-06	-0.006824
-1.60E-06	-0.000249	1.93E-07	
135	5.14E-06	5.17E-06	-0.005540
-2.24E-06	-0.000269	1.45E-07	
136	5.30E-06	5.79E-06	-0.004202
-2.83E-06	-0.000271	9.49E-08	
137	5.42E-06	6.13E-06	-0.002895
-3.22E-06	-0.000257	3.24E-08	
138	5.49E-06	6.17E-06	-0.001683
-3.33E-06	-0.000232	-4.86E-08	
139	5.51E-06	5.65E-06	-0.000626
-3.04E-06	-0.000196	-1.52E-07	
140	5.50E-06	5.00E-06	-4.29E-08
-2.50E-06	-0.000167	-2.26E-07	
141	5.47E-06	4.12E-06	0.000525
-1.62E-06	-0.000137	-2.72E-07	
142	5.40E-06	2.61E-06	0.001093
1.94E-08	-9.36E-05	-3.28E-07	
143	5.30E-06	9.67E-07	0.001453
1.74E-06	-5.37E-05	-3.35E-07	
144	5.18E-06	-6.33E-07	0.001624
3.42E-06	-1.57E-05	-3.12E-07	
145	5.06E-06	-2.12E-06	0.001611
4.94E-06	1.92E-05	-2.70E-07	
146	4.95E-06	-3.27E-06	0.001448
5.94E-06	4.50E-05	-2.13E-07	
147	4.85E-06	-4.15E-06	0.001180
6.38E-06	6.17E-05	-1.44E-07	
148	4.79E-06	-4.68E-06	0.000854
6.19E-06	6.85E-05	-6.67E-08	
149	4.76E-06	-4.83E-06	0.000515
5.48E-06	6.75E-05	4.88E-09	
150	4.76E-06	-4.67E-06	0.000196
4.34E-06	6.04E-05	5.65E-08	
151	4.77E-06	-4.44E-06	1.60E-08
3.41E-06	5.28E-05	7.59E-08	
152	4.81E-06	-4.03E-06	-0.000231
2.10E-06	4.06E-05	9.54E-08	
153	4.87E-06	-3.50E-06	-0.000400
7.81E-07	2.79E-05	1.21E-07	
154	4.94E-06	-2.84E-06	-0.000506
-4.70E-07	1.57E-05	1.50E-07	
155	5.03E-06	-2.05E-06	-0.000556
-1.58E-06	4.73E-06	1.71E-07	
156	5.14E-06	-1.18E-06	-0.000553
-2.53E-06	-5.02E-06	1.79E-07	
157	5.25E-06	-3.13E-07	-0.000507
-3.25E-06	-1.31E-05	1.74E-07	
158	5.36E-06	5.05E-07	-0.000424
-3.75E-06	-1.95E-05	1.59E-07	
159	5.46E-06	1.23E-06	-0.000315
-4.01E-06	-2.42E-05	1.35E-07	
160	5.54E-06	1.82E-06	-0.000186
-4.06E-06	-2.75E-05	1.09E-07	
161	5.61E-06	2.30E-06	-4.37E-05
-3.90E-06	-2.92E-05	8.78E-08	
162	5.63E-06	2.43E-06	-2.34E-09
-3.83E-06	-2.93E-05	8.49E-08	
163	5.70E-06	-7.86E-06	1.90E-06
1.13E-05	-8.97E-05	-1.18E-05	
164	5.56E-06	-6.95E-06	0.000401
1.16E-05	-8.61E-05	-9.18E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

< UNEQUAL Page SETTLEMENT 18 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	5.40E-06	-5.93E-06	0.000809
1.10E-05	-7.54E-05	-8.41E-06	
166	5.25E-06	-4.88E-06	0.001148
9.54E-06	-5.85E-05	-6.65E-06	
167	5.10E-06	-3.67E-06	0.001386
7.16E-06	-3.48E-05	5.31E-06	
168	4.94E-06	-2.21E-06	0.001488
3.81E-06	-4.05E-06	-9.66E-07	
169	4.78E-06	-5.17E-07	0.001421
-3.13E-07	3.21E-05	2.84E-06	
170	4.62E-06	1.31E-06	0.001162
-5.04E-06	7.32E-05	7.19E-06	
171	4.49E-06	3.09E-06	0.000688
-9.87E-06	0.000117	1.19E-05	
172	4.39E-06	4.56E-06	-1.16E-06
-1.40E-05	0.000159	1.53E-05	
173	4.33E-06	5.41E-06	-0.000608
-1.61E-05	0.000188	1.82E-05	
174	4.28E-06	6.07E-06	-0.001640
-1.80E-05	0.000224	2.36E-05	
175	4.24E-06	6.30E-06	-0.002832
-1.89E-05	0.000251	2.64E-05	
176	4.21E-06	6.15E-06	-0.004124
-1.88E-05	0.000265	2.80E-05	
177	4.18E-06	5.67E-06	-0.005450
-1.76E-05	0.000264	2.80E-05	
178	4.14E-06	4.93E-06	-0.006730
-1.54E-05	0.000246	2.62E-05	
179	4.10E-06	3.95E-06	-0.007879
-1.22E-05	0.000212	2.25E-05	
180	4.05E-06	2.85E-06	-0.008821
-8.35E-06	0.000166	1.76E-05	
181	3.97E-06	1.66E-06	-0.009514
-4.18E-06	0.000111	1.19E-05	
182	3.86E-06	1.20E-06	-0.009909
-4.70E-07	4.79E-05	4.71E-06	
183	3.75E-06	1.12E-06	-0.009998
1.39E-06	3.20E-06	2.80E-07	
184	3.63E-06	1.35E-06	-0.009931
2.20E-06	-4.15E-05	-4.70E-06	
185	3.47E-06	2.21E-06	-0.009567
2.19E-06	-0.000104	-1.12E-05	
186	3.32E-06	3.39E-06	-0.008904
1.25E-06	-0.000160	-1.70E-05	
187	3.20E-06	4.63E-06	-0.007987
1.07E-07	-0.000208	-2.21E-05	
188	3.10E-06	5.82E-06	-0.006847
-1.04E-06	-0.000247	-2.61E-05	
189	3.00E-06	6.48E-06	-0.005562
-2.18E-06	-0.000267	-2.82E-05	
190	2.93E-06	6.91E-06	-0.004220
-3.22E-06	-0.000269	-2.83E-05	
191	2.88E-06	6.93E-06	-0.002909
-4.13E-06	-0.000256	-2.67E-05	
192	2.85E-06	6.54E-06	-0.001694
-4.83E-06	-0.000230	-2.40E-05	
193	2.82E-06	5.66E-06	-0.000632
-4.96E-06	-0.000195	-1.87E-05	
194	2.81E-06	4.65E-06	-1.23E-06
-4.57E-06	-0.000167	-1.45E-05	
195	2.80E-06	3.42E-06	0.000530
-3.59E-06	-0.000138	-1.30E-05	
196	2.77E-06	1.47E-06	0.001108
-1.63E-06	-9.48E-05	-9.32E-06	
197	2.73E-06	-5.39E-07	0.001477
5.92E-07	-5.48E-05	-5.07E-06	
198	2.69E-06	-2.38E-06	0.001655
2.71E-06	-1.64E-05	-1.04E-06	
199	2.65E-06	-3.88E-06	0.001644
4.53E-06	1.90E-05	2.67E-06	
200	2.62E-06	-4.97E-06	0.001479
5.77E-06	4.53E-05	5.37E-06	
201	2.60E-06	-5.63E-06	0.001207
6.40E-06	6.22E-05	7.39E-06	
202	2.60E-06	-5.91E-06	0.000874
6.42E-06	6.94E-05	7.76E-06	
203	2.61E-06	-5.87E-06	0.000528
5.94E-06	6.83E-05	7.61E-06	
204	2.65E-06	-5.55E-06	0.000202
5.11E-06	6.11E-05	6.26E-06	
205	2.72E-06	-5.11E-06	1.76E-06
4.31E-06	5.36E-05	5.47E-06	
206	2.79E-06	-4.15E-06	-0.000236
2.79E-06	4.14E-05	4.55E-06	
207	2.89E-06	-3.03E-06	-0.000410
1.21E-06	2.86E-05	3.14E-06	
208	2.98E-06	-1.90E-06	-0.000520
-2.39E-07	1.62E-05	1.84E-06	
209	3.07E-06	-8.55E-07	-0.000572
-1.47E-06	4.96E-06	6.71E-07	
210	3.15E-06	7.47E-08	-0.000570
-2.49E-06	-5.02E-06	-3.64E-07	
211	3.22E-06	8.79E-07	-0.000523
-3.25E-06	-1.93E-05	-1.27E-06	
212	3.29E-06	1.56E-06	-0.000438
-3.76E-06	-1.98E-05	-1.88E-06	
213	3.36E-06	2.14E-06	-0.000325
-4.02E-06	-2.47E-05	-2.36E-06	
214	3.43E-06	2.64E-06	-0.000192
-4.05E-06	-2.81E-05	-2.77E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

< UNEQUAL Page SETTLEMENT 19 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	3.50E-06	3.12E-06	-4.55E-05
-3.86E-06	-2.99E-05	-1.96E-06	
216	3.50E-06	3.18E-06	-3.23E-07
-3.70E-06	-3.01E-05	-2.43E-06	
217	4.07E-06	-5.56E-06	-8.76E-07
1.04E-05	-8.91E-05	-1.19E-05	
218	4.07E-06	-5.42E-06	0.000393
1.14E-05	-8.54E-05	-9.28E-06	
219	4.01E-06	-5.03E-06	0.000795
1.11E-05	-7.48E-05	-8.61E-06	
220	3.89E-06	-4.04E-06	0.001130
9.72E-06	-5.82E-05	-6.90E-06	
221	3.74E-06	-2.75E-06	0.001366
7.32E-06	-3.90E-05	-4.75E-06	
222	3.58E-06	-1.26E-06	0.001468
3.94E-06	-4.48E-06	-1.28E-06	
223	3.42E-06	3.50E-07	0.001405
-2.14E-07	3.14E-05	2.51E-06	
224	3.26E-06	2.01E-06	0.001151
-4.94E-06	7.22E-05	6.84E-06	
225	3.11E-06	3.62E-06	0.000685
-9.91E-06	0.000116	1.16E-05	
226	3.02E-06	4.89E-06	1.45E-06
-1.42E-05	0.000159	1.51E-05	
227	2.99E-06	5.45E-06	-0.000602
-1.61E-05	0.000188	1.80E-05	
228	3.00E-06	5.71E-06	-0.001632
-1.81E-05	0.000225	2.35E-05	
229	3.04E-06	5.67E-06	-0.002822
-1.89E-05	0.000252	2.63E-05	
230	3.10E-06	5.36E-06	-0.004112
-1.88E-05	0.000266	2.79E-05	
231	3.19E-06	4.82E-06	-0.005437
-1.77E-05	0.000266	2.79E-05	
232	3.29E-06	4.10E-06	-0.006717
-1.55E-05	0.000248	2.61E-05	
233	3.40E-06	3.24E-06	-0.007867
-1.23E-05	0.000214	2.25E-05	
234	3.52E-06	2.27E-06	-0.008814
-8.43E-06	0.000168	1.77E-05	
235	3.64E-06	1.31E-06	-0.009513
-4.25E-06	0.000112	1.20E-05	
236	3.75E-06	5.26E-07	-0.009913
-2.79E-07	4.88E-05	4.79E-06	
237	3.82E-06	3.41E-07	-0.010003
1.83E-06	3.24E-06	2.81E-07	
238	3.87E-06	6.81E-07	-0.009935
2.41E-06	-4.24E-05	-4.19E-06	
239	3.93E-06	1.66E-06	-0.009565
2.21E-06	-0.000106	-1.14E-05	
240	4.00E-06	2.80E-06	-0.008896
1.28E-06	-0.000162	-1.71E-05	
241	4.06E-06	3.90E-06	-0.007975
9.53E-08	-0.000210	-2.21E-05	
242	4.13E-06	4.86E-06	-0.006833
-1.04E-06	-0.000248	-2.61E-05	
243	4.20E-06	5.61E-06	-0.005547
-2.18E-06	-0.000269	-2.81E-05	
244	4.27E-06	6.11E-06	-0.004207
-3.22E-06	-0.000270	-2.82E-05	
245	4.33E-06	6.32E-06	-0.002898
-4.15E-06	-0.000257	-2.67E-05	
246	4.38E-06	6.23E-06	-0.001685
-4.85E-06	-0.000231	-2.40E-05	
247	4.40E-06	5.74E-06	-0.000626
-5.11E-06	-0.000195	-1.87E-05	
248	4.40E-06	5.02E-06	1.28E-06
-4.85E-06	-0.000167	-1.46E-05	
249	4.39E-06	3.94E-06	0.000528
-3.72E-06	-0.000137	-1.28E-05	
250	4.35E-06	2.18E-06	0.001100
-1.61E-06	-9.39E-05	-9.11E-06	
251	4.29E-06	3.73E-07	0.001462
5.90E-07	-5.39E-05	-4.86E-06	
252	4.23E-06	-1.29E-06	0.001636
2.74E-06	-1.58E-05	-8.74E-07	
253	4.16E-06	-2.72E-06	0.001623
4.56E-06	1.92E-05	2.81E-06	
254	4.10E-06	-3.86E-06	0.001459
5.80E-06	4.52E-05	5.48E-06	
255	4.05E-06	-4.56E-06	0.001189
6.45E-06	6.19E-05	7.19E-06	
256	4.02E-06	-5.05E-06	0.000860
6.46E-06	6.89E-05	7.84E-06	
257	4.02E-06	-5.04E-06	0.000518
5.91E-06	6.78E-05	7.67E-06	
258	4.04E-06	-4.65E-06	0.000197
4.88E-06	6.08E-05	6.33E-06	
259	4.07E-06	-4.24E-06	-1.23E-06
3.85E-06	5.31E-05	5.58E-06	
260	4.10E-06	-3.79E-06	-0.000234
2.56E-06	4.07E-05	4.72E-06	
261	4.15E-06	-3.23E-06	-0.000404
1.18E-06	2.80E-05	3.68E-06	
262	4.22E-06	-2.49E-06	-0.000511
-1.77E-07	1.58E-05	1.98E-06	
263	4.31E-06	-1.63E-06	-0.000561
-1.41E-06	4.76E-06	8.00E-07	
264	4.40E-06	-7.48E-07	-0.000559
-2.44E-06	-5.05E-06	-2.39E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

< UNEQUAL Page SETTLEMENT 20 >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	4.49E-06	1.03E-07	-0.000512
-3.22E-06	-1.32E-05	-1.09E-06	
266	4.58E-06	8.84E-07	-0.000429
-3.74E-06	-

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
23	0.000195	5.26E-06	-0.001660
-4.81E-06	0.000226	3.61E-08	
24	0.000195	5.22E-06	-0.002860
-4.84E-06	0.000252	-3.94E-08	
25	0.000195	4.85E-06	-0.004159
-4.52E-06	0.000267	-9.48E-08	
26	0.000194	4.25E-06	-0.005493
-3.92E-06	0.000266	-1.34E-07	
27	0.000194	3.48E-06	-0.006777
-3.15E-06	0.000246	-1.61E-07	
28	0.000194	2.64E-06	-0.007921
-2.33E-06	0.000209	-1.62E-07	
29	0.000193	1.91E-06	-0.008848
-1.61E-06	0.000162	-1.10E-07	
30	0.000193	1.63E-06	-0.009527
-1.20E-06	0.000108	1.36E-08	
31	0.000193	2.10E-06	-0.009913
-1.29E-06	4.66E-05	1.74E-07	
32	0.000192	2.84E-06	-0.010000
-1.81E-06	3.22E-06	2.33E-07	
33	0.000192	3.73E-06	-0.009936
-3.20E-06	-4.01E-05	2.88E-07	
34	0.000192	5.54E-06	-0.009580
-5.85E-06	-0.000102	4.27E-07	
35	0.000191	7.93E-06	-0.008929
-8.63E-06	-0.000157	5.11E-07	
36	0.000191	1.05E-05	-0.008026
-1.14E-05	-0.000205	5.03E-07	
37	0.000191	1.29E-05	-0.006899
-1.38E-05	-0.000244	4.29E-07	
38	0.000191	1.48E-05	-0.005622
-1.53E-05	-0.000265	3.38E-07	
39	0.000191	1.64E-05	-0.004283
-1.56E-05	-0.000268	2.92E-07	
40	0.000190	1.80E-05	-0.002968
-1.49E-05	-0.000257	3.40E-07	
41	0.000190	2.00E-05	-0.001739
-1.31E-05	-0.000233	4.41E-07	
42	0.000190	2.20E-05	-0.000654
-9.90E-06	-0.000200	2.77E-07	
43	0.000190	2.20E-05	-2.83E-08
-6.72E-06	-0.000174	-4.05E-07	
44	0.000190	1.73E-05	0.000771
-4.81E-06	-0.000135	-1.26E-06	
45	0.000190	1.09E-05	0.001341
-1.78E-06	-9.34E-05	-1.23E-06	
46	0.000189	5.39E-06	0.001703
1.70E-06	-5.32E-05	-1.00E-06	
47	0.000189	8.76E-07	0.001873
5.09E-06	-1.64E-05	-8.25E-07	
48	0.000189	-2.93E-06	0.001868
8.12E-06	1.62E-05	-7.12E-07	
49	0.000188	-6.27E-06	0.001714
1.05E-05	4.33E-05	-6.30E-07	
50	0.000188	-9.22E-06	0.001437
1.23E-05	6.48E-05	-5.51E-07	
51	0.000188	-1.17E-05	0.001067
1.34E-05	8.07E-05	-4.62E-07	
52	0.000188	-1.38E-05	0.000630
1.38E-05	9.20E-05	-3.62E-07	
53	0.000188	-1.54E-05	0.000148
1.37E-05	9.81E-05	-2.65E-07	
54	0.000188	-1.58E-05	9.47E-09
1.36E-05	9.85E-05	-2.50E-07	
55	0.000195	1.48E-05	-2.70E-09
-1.77E-06	2.69E-05	-2.66E-07	
56	0.000195	1.37E-05	-0.000118
-2.60E-06	2.57E-05	-1.90E-07	
57	0.000195	1.32E-05	-0.000240
-2.95E-06	2.25E-05	-6.02E-08	
58	0.000195	1.30E-05	-0.000341
-2.87E-06	1.75E-05	-1.67E-08	
59	0.000195	1.29E-05	-0.000412
-2.39E-06	1.04E-05	-3.65E-08	
60	0.000195	1.26E-05	-0.000442
-1.55E-06	1.25E-06	-7.97E-08	
61	0.000195	1.21E-05	-0.000423
-4.16E-07	-9.55E-06	-1.26E-07	
62	0.000195	1.13E-05	-0.000346
9.52E-07	-2.18E-05	-1.70E-07	
63	0.000195	1.04E-05	-0.000205
2.44E-06	-3.49E-05	-2.05E-07	
64	0.000195	9.36E-06	1.71E-08
3.89E-06	-4.77E-05	-2.20E-07	
65	0.000195	8.60E-06	0.000181
4.86E-06	-5.57E-05	-2.21E-07	
66	0.000195	7.52E-06	0.000480
5.92E-06	-6.35E-05	-2.19E-07	
67	0.000195	6.47E-06	0.000802
6.48E-06	-6.51E-05	-2.04E-07	
68	0.000195	5.54E-06	0.001115
6.45E-06	-5.90E-05	-1.71E-07	
69	0.000195	4.82E-06	0.001375
5.76E-06	-4.37E-05	-1.22E-07	
70	0.000195	4.36E-06	0.001537
4.43E-06	-1.99E-05	-6.38E-08	
71	0.000195	4.20E-06	0.001560
2.51E-06	1.20E-05	-1.30E-11	
72	0.000195	4.35E-06	0.001406
3.25E-07	4.94E-05	6.41E-08	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 22

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	0.000195	4.81E-06	0.001065
-1.90E-06	8.95E-05	1.19E-07	
74	0.000195	5.44E-06	0.000513
-3.88E-06	0.000133	1.30E-07	
75	0.000195	5.78E-06	-3.88E-08
-4.82E-06	0.000163	5.25E-08	
76	0.000195	5.76E-06	-0.000614
-5.61E-06	0.000191	-4.56E-08	
77	0.000195	5.34E-06	-0.001654
-5.97E-06	0.000227	-9.80E-08	
78	0.000196	4.78E-06	-0.002851
-5.67E-06	0.000253	-1.14E-07	
79	0.000195	4.15E-06	-0.004148
-4.91E-06	0.000268	-1.28E-07	
80	0.000195	3.43E-06	-0.005480
-3.80E-06	0.000267	-1.44E-07	
81	0.000195	2.65E-06	-0.006762
-2.48E-06	0.000248	-1.53E-07	
82	0.000195	1.86E-06	-0.007907
-1.07E-06	0.000211	-1.51E-07	
83	0.000196	1.11E-06	-0.008838
2.07E-07	0.000164	-1.37E-07	
84	0.000196	4.86E-07	-0.009521
1.05E-06	0.000110	-1.02E-07	
85	0.000196	2.03E-07	-0.009912
1.00E-06	4.74E-05	1.49E-08	
86	0.000196	5.74E-07	-0.010000
9.52E-08	3.16E-06	2.29E-07	
87	0.000196	1.78E-06	-0.009934
-1.02E-06	-4.12E-05	4.39E-07	
88	0.000196	4.27E-06	-0.009574
-3.83E-06	-0.000104	5.37E-07	
89	0.000196	6.97E-06	-0.008918
-7.21E-06	-0.000158	5.39E-07	
90	0.000196	9.60E-06	-0.008011
-1.07E-05	-0.000207	5.06E-07	
91	0.000196	1.20E-05	-0.006883
-1.40E-05	-0.000245	4.51E-07	
92	0.000196	1.41E-05	-0.005608
-1.65E-05	-0.000266	3.70E-07	
93	0.000197	1.57E-05	-0.004272
-1.81E-05	-0.000269	2.41E-07	
94	0.000197	1.64E-05	-0.002959
-1.88E-05	-0.000257	1.68E-08	
95	0.000197	1.57E-05	-0.001733
-1.88E-05	-0.000234	-3.23E-07	
96	0.000197	1.33E-05	-0.000651
-1.80E-05	-0.000200	-6.02E-07	
97	0.000196	1.14E-05	-3.84E-08
-1.71E-05	-0.000173	-4.22E-07	
98	0.000196	1.03E-05	0.000763
-1.22E-05	-0.000133	-1.86E-07	
99	0.000196	8.79E-06	0.001323
-7.02E-06	-9.17E-05	-4.44E-07	
100	0.000196	5.99E-06	0.001677
-2.02E-06	-5.18E-05	-6.71E-07	
101	0.000196	2.41E-06	0.001843
2.45E-06	-1.56E-05	-7.56E-07	
102	0.000195	-1.32E-06	0.001836
6.21E-06	1.65E-05	-7.46E-07	
103	0.000195	-4.89E-06	0.001683
9.10E-06	4.32E-05	-6.97E-07	
104	0.000194	-8.19E-06	0.001410
1.11E-05	6.40E-05	-6.31E-07	
105	0.000194	-1.12E-05	0.001046
1.22E-05	7.99E-05	-5.79E-07	
106	0.000194	-1.39E-05	0.000617
1.25E-05	9.09E-05	-5.29E-07	
107	0.000193	-1.64E-05	0.000145
1.20E-05	9.68E-05	-4.76E-07	
108	0.000193	-1.71E-05	8.83E-09
1.18E-05	9.72E-05	-4.65E-07	
109	0.000194	1.45E-05	-3.52E-09
-4.56E-06	2.62E-05	-1.72E-07	
110	0.000194	1.38E-05	-0.000116
-4.36E-06	2.51E-05	-1.57E-07	
111	0.000195	1.31E-05	-0.000235
-3.99E-06	2.20E-05	-1.11E-07	
112	0.000195	1.26E-05	-0.000333
-3.49E-06	1.71E-05	-7.64E-08	
113	0.000195	1.23E-05	-0.000403
-2.78E-06	1.02E-05	-6.37E-08	
114	0.000195	1.20E-05	-0.000433
-1.83E-06	1.20E-06	-7.75E-08	
115	0.000195	1.15E-05	-0.000414
-6.56E-07	-9.37E-06	-1.06E-07	
116	0.000195	1.09E-05	-0.000339
7.10E-07	-2.15E-05	-1.36E-07	
117	0.000195	1.02E-05	-0.000202
2.19E-06	-3.44E-05	-1.59E-07	
118	0.000195	9.38E-06	1.72E-08
3.68E-06	-4.72E-05	-1.71E-07	
119	0.000195	8.79E-06	0.000178
4.63E-06	-5.52E-05	-1.72E-07	
120	0.000195	7.97E-06	0.000472
5.76E-06	-6.29E-05	-1.64E-07	
121	0.000195	7.20E-06	0.000790
6.43E-06	-6.45E-05	-1.48E-07	
122	0.000195	6.54E-06	0.001099
6.56E-06	-5.85E-05	-1.24E-07	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 23

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	0.000195	6.00E-06	0.001355
6.07E-06	-4.35E-05	-9.28E-08	
124	0.000195	5.63E-06	0.001516
4.99E-06	-1.89E-05	-5.68E-08	
125	0.000195	5.45E-06	0.001539
3.38E-06	1.22E-05	-1.91E-08	
126	0.000195	5.43E-06	0.001390
1.52E-06	4.88E-05	1.31E-08	
127	0.000195	5.53E-06	0.001054
-4.51E-07	8.88E-05	2.82E-08	
128	0.000195	5.65E-06	0.000509
-2.39E-06	0.000132	1.55E-08	
129	0.000195	5.65E-06	-4.29E-08
-3.48E-06	0.000163	-1.44E-08	
130	0.000195	5.52E-06	-0.000612
-4.23E-06	0.000192	-5.89E-08	
131	0.000195	5.05E-06	-0.001649
-4.77E-06	0.000228	-1.18E-07	
132	0.000195	4.35E-06	-0.002843
-4.84E-06	0.000254	-1.55E-07	
133	0.000195	3.52E-06	-0.004137
-4.54E-06	0.000269	-1.72E-07	
134	0.000195	2.63E-06	-0.005466
-3.93E-06	0.000268	-1.76E-07	
135	0.000195	1.71E-06	-0.006748
-3.15E-06	0.000249	-1.68E-07	
136	0.000196	9.61E-07	-0.007893
-2.32E-06	0.000213	-1.45E-07	
137	0.000196	3.29E-07	-0.008827
-1.66E-06	0.000166	-9.94E-08	
138	0.000196	1.03E-06	-0.009515
-1.30E-06	0.000111	-1.65E-08	
139	0.000196	2.21E-07	-0.009911
-1.52E-06	4.85E-05	1.15E-07	
140	0.000196	8.03E-07	-0.010000
-2.24E-06	3.21E-06	2.26E-07	
141	0.000197	1.77E-06	-0.009933
-3.57E-06	-4.22E-05	3.37E-07	
142	0.000197	3.3E-06	-0.009567
-6.20E-06	-0.000105	4.50E-07	
143	0.000197	6.10E-06	-0.008906
-9.05E-06	-0.000160	5.05E-07	
144	0.000198	8.62E-06	-0.007996
-1.18E-05	-0.000208	5.07E-07	
145	0.000198	1.10E-05	-0.006867
-1.43E-05	-0.000246	4.61E-07	
146	0.000198	1.31E-05	-0.005592
-1.60E-05	-0.000267	3.62E-07	
147	0.000198	1.45E-05	-0.004258
-1.65E-05	-0.000270	2.02E-07	
148	0.000198	1.50E-05	-0.002948
-1.60E-05	-0.000258	-5.01E-09	
149	0.000198	1.45E-05	-0.001725
-1.43E-05	-0.000235	-1.99E-07	
150	0.000198	1.33E-05	-0.000647
-1.16E-05	-0.000201	-3.04E-07	
151	0.000198	1.22E-05	-3.65E-08
-9.29E-06	-0.000173	-3.09E-07	
152	0.000198	1.07E-05	0.000756
-6.10E-06	-0.000133	-3.12E-07	
153	0.000198	9.04E-06	0.001307
-2.61E-06	-9.10E-05	-3.95E-07	
154	0.000198	6.78E-06	0.001654
1.00E-06	-5.11E-05	-5.34E-07	
155	0.000197	4.85E-06	0.001815
4.44E-06	-1.51E-05	-6.57E-07	
156	0.000197	4.45E-07	0.001806
7.52E-06	1.66E-05	-7.23E-07	
157	0.000196	-3.15E-06	0.001653
9.97E-06	4.29E-05	-7.36E-07	
158	0.000196	-6.71E-06	0.001384
1.18E-05	6.39E-05	-7.14E-07	
159	0.000195	-1.01E-05	0.001026
1.28E-05	7.88E-05	-6.76E-07	
160	0.000195	-1.33E-05	0.000605
1.33E-05	8.96E-05	-6.28E-07	
161	0.000194	-1.63E-05	0.000143
1.32E-05	9.53E-05	-5.77E-07	
162	0.000194	-1.71E-05	8.17E-09
1.31E-05	9.56E-05	-5.67E-07	
163	0.000195	1.16E-05	4.09E-06
-2.81E-06	2.74E-05	3.75E-06	
164	0.000195	1.25E-05	-0.000118
-3.60E-06	2.62E-05	2.96E-06	
165	0.000194	1.31E-05	-0.000241
-3.76E-06	2.27E-05	2.75E-06	
166	0.000194	1.33E-05	-0.000344
-3.46E-06	1.76E-05	2.24E-06	
167	0.000194	1.32E-05	-0.000416
-2.79E-06	1.05E-05	1.50E-06	
168	0.000194	1.29E-05	-0.000447
-1.80E-06	1.22E-06	5.39E-07	
169	0.000194	1.23E-05	-0.000427
-5.59E-07	-9.66E-06	-6.02E-07	
170	0.000194	1.15E-05	-0.000349
9.08E-07	-2.20E-05	-1.90E-06	
171	0.000194	1.05E-05	-0.000207
2.49E-06	-3.51E-05	-3.31E-06	
172	0.000195	9.42E-06	1.69E-07
4.07E-06	-4.79E-05	-4.35E-06	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 24

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	0.000195	8.54E-06	0.000182
5.03E-06	-5.60E-05	-5.16E-06	
174	0.000195	7.29E-06	0.000483
6.03E-06	-6.37E-05	-6.42E-06	
175	0.000195	6.08E-06	0.000809
6.57E-06	-6.54E-05	-6.61E-06	
176	0.000195	5.03E-06	0.001123
6.54E-06	-5.91E-05	-6.02E-06	
177	0.000195	4.24E-06	0.001384
5.86E-06	-4.38E-05	-4.46E-06	
178	0.000195	3.77E-06	0.001547
4.54E-06	-1.98E-05	-2.00E-06	
179	0.000195	3.66E-06	0.001569
2.59E-06	1.29E-05	1.41E-06	
180	0.000195	3.88E-06	0.001413
2.56E-07	4.98E-05	5.27E-06	
181	0.000195	4.34E-06	0.001069
-2.26E-06	8.99E-05	9.53E-06	
182	0.000195	4.86E-06	0.000514
-4.53E-06	0.000133	1.32E-05	
183	0.000195	5.20E-06	-1.16E-06
-5.65E-06	0.000163	1.49E-05	
184	0.000195	5.42E-06	-0.000617
-6.18E-06	0.000191	1.89E-05	
185	0.000195	5.37E-06	-0.001659
-6.27E-06	0.000227	2.43E-05	
186	0.000195	5.06E-06	-0.002856
-5.75E-06	0.000253	2.71E-05	
187	0.000195	4.52E-06	-0.004154
-4.93E-06	0.000267	2.87E-05	
188	0.000195	3.84E-06	-0.005486
-3.88E-06	0.000266	2.88E-05	
189	0.000195	3.03E-06	-0.006769
-2.60E-06	0.000247	2.69E-05	
190	0.000195	2.18E-06	-0.007913
-1.21E-06	0.000210	2.30E-05	
191	0.000194	1.41E-06	-0.008841
2.51E-07	0.000163	1.81E-05	
192	0.000194	9.25E-07	-0.009522
1.56E-06	0.000109	1.25E-05	
193	0.000194	1.01E-06	-0.009910
2.01E-06	4.71E-05	5.42E-06	
194	0.000194	1.60E-06	-0.009998
1.55E-06	3.15E-06	1.04E-06	
195	0.000194	2.62E-06	-0.009933
1.67E-08	-4.08E-05	-3.21E-06	
196	0.000194	4.78E-06	-0.009575
-3.20E-06	-0.000103	-1.01E-05	
197	0.000194	7.37E-06	-0.008922
-6.96E-06	-0.000157	-1.56E-05	
198	0.000194	1.00E-05	-0.008018
-1.06E-05	-0.000205	-2.08E-05	
199	0.000194	1.25E-05	-0.006891
-1.37E-05	-0.000244	-2.48E-05	
200	0.000194	1.45E-05	-0.005616
-1.59E-05	-0.000265	-2.69E-05	
201	0.000194	1.62E-05	-0.004280
-1.71E-05	-0.000268	-2.70E-05	
202	0.000194	1.74E-05	-0.002967
-1.75E-05	-0.000257	-2.56E-05	
203	0.000194	1.82E-05	-0.001742
-1.72E-05	-0.000233	-2.31E-05	
204	0.000194	1.82E-05	-0.000661
-1.62E-05	-0.000199	-1.78E-05	
205	0.000193	1.73E-05	-1.11E-05
-1.49E-05	-0.000173	-1.50E-05	
206	0.000193	1.43E-05	0.000759
-1.08E-05	-0.000135	-1.17E-05	
207	0.000193	1.02E-05	0.001326
-5.64E-06	-9.27E-05	-7.17E-06	
208	0.000192	5.93E-06	0.001686
-7.57E-07	-5.28E-05	-2.92E-06	
209	0.000192	1.81E-06	0.001855
3.48E-06	-1.62E-05	9.07E-07	
210	0.000192	-2.01E-06	0.001850
7.03E-06	1.62E-05	4.29E-06	
211	0.000192	-5.50E-06	0.001697
9.76E-06	4.31E-05	7.98E-06	
212	0.000191	-8.63E-06	0.001423
1.17E-05	6.45E-05	9.27E-06	
213	0.000191	-1.14E-05	0.001056
1.27E-05	8.03E-05	1.08E-05	
214	0.000191	-1.38E-05	0.000622
1.30E-05	9.15E-05	1.22E-05	
215	0.000191	-1.62E-05	0.000145
1.24E-05	9.75E-05	8.53E-06	
216	0.000191	-1.62E-05	-1.74E-06
1.18E-05	9.80E-05	1.06E-05	
217	0.000194	1.48E-05	-3.06E-06
-3.66E-06	2.62E-05	3.54E-06	
218	0.000195	1.39E-05	-0.000119
-3.52E-06	2.52E-05	2.96E-06	
219	0.000195	1.32E-05	-0.000238
-3.40E-06	2.22E-05	2.41E-06	
220	0.000195	1.29E-05	-0.000338
-3.12E-06	1.73E-05	1.86E-06	
221	0.000195	1.26E-05	-0.000408
-2.55E-06	1.03E-05	1.13E-06	
222	0.000195	1.23E-05	-0.000438
-1.65E-06	1.23E-06	2.04E-07	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 25

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	0.000195	1.18E-05	-0.000419
-4.70E-07	-9.46E-06	-8.94E-07	
224	0.000195	1.11E-05	-0.000343
9.26E-07	-2.16E-05	-2.15E-06	
225	0.000195	1.03E-05	-0.000204
2.47E-06	-3.46E-05	-3.53E-06	
226	0.000195	9.39E-06	-1.61E-07
4.02E-06	-4.74E-05	-4.53E-06	
227	0.000195	8.70E-06	0.000179
4.96E-06	-5.55E-05	-5.33E-06	
228	0.000195	7.75E-06	0.000476
5.96E-06	-6.32E-05	-5.95E-06	
229	0.000195	6.83E-06	0.000796
6.52E-06	-6.49E-05	-6.76E-06	
230	0.000195	6.03E-06	0.001107
6.51E-06	-5.87E-05	-6.15E-06	
231	0.000195	5.39E-06	0.001365
5.85E-06	-4.36E-05	-4.59E-06	
232	0.000195	4.96E-06	0.001527
4.56E-06	-1.99E-05	-2.13E-06	
233	0.000195	4.77E-06	0.001550
2.64E-06	1.23E-05	1.26E-06	
234	0.000195	4.82E-06	0.001399
3.31E-07	4.90E-05	5.10E-06	
235	0.000195	5.08E-06	0.001061
-2.12E-06	8.91E-05	9.36E-06	
236	0.000195	5.43E-06	0.000513
-4.51E-06	0.000133	1.30E-05	
237	0.000195	5.62E-06	1.46E-06
-5.85E-06	0.000163	1.48E-05	
238	0.000195	5.57E-06	-0.000611
-6.34E-06	0.000191	1.90E-05	
239	0.000195	5.12E-06	-0.001650
-6.34E-06	0.000228	2.42E-05	
240	0.000195	4.51E-06	-0.002846
-5.79E-06	0.000254	2.69E-05	
241	0.000195	3.81E-06	-0.004142
-4.93E-06	0.000268	2.85E-05	
242	0.000196	3.04E-06	-0.005473
-3.88E-06	0.000267	2.84E-05	
243	0.000196	2.26E-06	-0.006756
-2.61E-06	0.000249	2.65E-05	
244	0.000196	1.51E-06	-0.007902
-1.22E-06	0.000212	2.26E-05	
245	0.000196	8.53E-07	-0.008834
2.81E-07	0.000165	1.76E-05	
246	0.000196	4.07E-07	-0.009521
1.59E-06	0.000111	1.20E-05	
247	0.000196	3.81E-07	-0.009914
2.23E-06	4.79E-05	4.83E-06	
248	0.000196	8.52E-07	-0.010002
1.98E-06	3.11E-06	3.71E-07	
249	0.000196	1.94E-06	-0.009936
1.91E-07	-4.17E-05	-4.07E-06	
250	0.000196	4.16E-06	-0.009573
-3.31E-06	-0.000105	-1.12E-05	
251	0.000196	6.66E-06	-0.008914
-7.11E-06	-0.000160	-1.69E-05	
252	0.000197	9.19E-06	-0.008005
-1.08E-05	-0.000208	-2.19E-05	
253	0.000197	1.16E-05	-0.006875
-1.40E-05	-0.000246	-2.60E-05	
254	0.000197	1.36E-05	-0.005599
-1.63E-05	-0.000267	-2.81E-05	
255	0.000197	1.50E-05	-0.004263
-1.76E-05	-0.000270	-2.83E-05	
256	0.000197	1.55E-05	-0.002950
-1.81E-05	-0.000258	-2.68E-05	
257	0.000197	1.48E-05	-0.001724
-1.74E-05	-0.000234	-2.42E-05	
258	0.000197	1.29E-05	-0.000642
-1.52E-05	-0.000201	-1.89E-05	
259	0.000197	1.13E-05	8.25E-06
-1.25E-05	-0.000173	-1.64E-05	
260	0.000197	1.01E-05	0.000766
-9.64E-06	-0.000132	-1.35E-05	
261	0.000197	8.64E-06	0.001320
-5.58E-06	-9.09E-05	-8.82E-06	
262	0.000197	6.20E-06	0.001669
-1.12E-06	-5.11E-05	-4.46E-06	
263	0.000196	3.01E-06	0.001831
3.10E-06	-1.52E-05	-5.73E-07	
264	0.000196	-5.24E-07	0.001822
6.71E-06	1.67E-05	2.82E-06	
265	0.000196	4.08E-06	0.001669
9.48E-06	4.31E-05	5.57E-06	
266	0.000195	-7.51E-06	0.001398
1.14E-05	6.39E-05	7.73E-06	
267	0.000195	-1.07E-05	0.001037
1.25E-05	7.93E-05	9.29E-06	
268	0.000194	-1.37E-05	0.000612
1.28E-05	9.08E-05	1.06E-05	
269	0.000194	-1.66E-05	0.000145
1.23E-05	9.59E-05	7.37E-06	
270	0.000194	-1.71E-05	1.71E-06
1.18E-05	9.63E-05	9.19E-06	
271	0.000164	-1.70E-22	.000000
-5.25E-06	2.72E-05	6.96E-07	
272	0.000252	1.49E-21	.000000
1.09E-06	-4.84E-05	-2.68E-07	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 26

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	.000000
1.05E-06	0.000163	1.08E-07	
274	0.000188	3.58E-23	-0.010000
-1.80E-06	3.23E-06	2.33E-07	
275	0.000399	4.00E-22	.000000
-1.28E-05	-0.000174	-4.05E-07	
276	7.92E-05	1.01E-23	.000000
1.26E-05	9.86E-05	-2.50E-07	
277	0.000165	-5.29E-23	.000000
3.28E-07	2.69E-05	-2.66E-07	
278	0.000253	-7.86E-23	.000000
1.24E-06	-4.78E-05	-2.22E-07	
279	.000000	.000000	.000000
-5.88E-09	0.000163	5.25E-08	
280	0.000192	-4.86E-23	-0.010000
1.04E-07	3.16E-06	2.29E-07	
281	0.000404	-9.34E-22	.000000
-1.32E-05	-0.000174	-4.22E-07	
282	8.66E-

29	-5.64E-05	-6.91E-06	0.001354
3.69E-06	4.94E-05	5.53E-08	
30	-5.64E-05	-6.61E-06	0.001017
3.76E-06	8.64E-05	6.17E-08	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
31	-5.65E-05	-6.34E-06	0.000487
4.04E-06	0.000126	4.77E-08	
32	-5.65E-05	-6.17E-06	-3.00E-08
4.43E-06	0.000153	6.01E-08	
33	-5.66E-05	-5.95E-06	-0.000579
5.28E-06	0.000179	5.76E-08	
34	-5.67E-05	-5.83E-06	-0.001556
6.74E-06	0.000212	-5.42E-09	
35	-5.68E-05	-6.02E-06	-0.002682
8.16E-06	0.000237	-5.77E-08	
36	-5.70E-05	-6.38E-06	-0.003908
9.38E-06	0.000252	-7.62E-08	
37	-5.73E-05	-6.76E-06	-0.005180
1.02E-05	0.000255	-6.76E-08	
38	-5.76E-05	-7.05E-06	-0.006424
1.02E-05	0.000241	-4.24E-08	
39	-5.80E-05	-7.17E-06	-0.007561
9.45E-06	0.000212	-2.23E-09	
40	-5.83E-05	-7.03E-06	-0.008524
8.00E-06	0.000173	6.18E-08	
41	-5.86E-05	-6.46E-06	-0.009281
5.80E-06	0.000128	1.75E-07	
42	-5.89E-05	-5.09E-06	-0.009795
2.54E-06	7.70E-05	3.94E-07	
43	-5.90E-05	-3.28E-06	-0.010000
-4.09E-07	4.07E-05	6.60E-07	
44	-5.90E-05	9.80E-07	-0.010071
-5.03E-06	1.22E-05	9.98E-07	
45	-5.90E-05	6.34E-06	-0.009870
-1.07E-05	-6.80E-05	1.12E-06	
46	-5.89E-05	1.20E-05	-0.009389
-1.68E-05	-0.000122	1.11E-06	
47	-5.88E-05	1.74E-05	-0.008648
-2.26E-05	-0.000172	1.03E-06	
48	-5.87E-05	2.22E-05	-0.007670
-2.78E-05	-0.000216	9.00E-07	
49	-5.87E-05	2.64E-05	-0.006490
-3.21E-05	-0.000252	7.46E-07	
50	-5.87E-05	2.98E-05	-0.005145
-3.55E-05	-0.000281	6.06E-07	
51	-5.86E-05	3.26E-05	-0.003673
-3.78E-05	-0.000303	5.42E-07	
52	-5.86E-05	3.55E-05	-0.002112
-3.92E-05	-0.000318	6.08E-07	
53	-5.83E-05	3.88E-05	-0.000491
-3.94E-05	-0.000326	7.29E-07	
54	-5.83E-05	3.99E-05	-1.16E-08
-3.90E-05	-0.000326	7.41E-07	
55	-5.54E-05	4.21E-06	7.63E-10
4.98E-07	-7.66E-06	5.88E-08	
56	-5.54E-05	3.98E-06	3.37E-05
7.43E-07	-7.33E-06	3.72E-08	
57	-5.54E-05	3.89E-06	6.83E-05
8.54E-07	-6.42E-06	1.48E-09	
58	-5.54E-05	3.92E-06	9.71E-05
8.40E-07	-4.98E-06	-7.91E-09	
59	-5.54E-05	3.94E-06	0.000117
7.12E-07	-2.96E-06	2.44E-09	
60	-5.54E-05	3.88E-06	0.000126
4.78E-07	-3.53E-07	2.10E-08	
61	-5.54E-05	3.73E-06	0.000120
1.59E-07	2.72E-06	4.18E-08	
62	-5.54E-05	3.47E-06	9.86E-05
-2.34E-07	6.22E-06	6.29E-08	
63	-5.55E-05	3.11E-06	5.85E-05
-6.74E-07	9.93E-06	8.32E-08	
64	-5.55E-05	2.65E-06	-4.86E-09
-1.12E-06	1.36E-05	1.00E-07	
65	-5.55E-05	2.29E-06	-5.14E-05
-1.42E-06	1.59E-05	1.09E-07	
66	-5.56E-05	1.74E-06	-0.000137
-1.78E-06	1.81E-05	1.14E-07	
67	-5.56E-05	1.18E-06	-0.000229
-2.01E-06	1.85E-05	1.09E-07	
68	-5.56E-05	6.76E-07	-0.000318
-2.08E-06	1.68E-05	9.40E-08	
69	-5.56E-05	2.73E-07	-0.000392
-1.97E-06	1.24E-05	6.81E-08	
70	-5.57E-05	1.95E-08	-0.000438
-1.68E-06	5.64E-06	3.33E-08	
71	-5.57E-05	4.41E-08	-0.000444
-1.19E-06	1.61E-06	-8.60E-09	
72	-5.56E-05	1.10E-07	-0.000401
-5.95E-07	-1.41E-05	-5.46E-08	
73	-5.56E-05	4.95E-07	-0.000303
9.41E-08	-2.55E-05	-1.02E-07	
74	-5.56E-05	1.10E-06	-0.000146
8.51E-07	-3.79E-05	-1.44E-07	
75	-5.56E-05	1.64E-06	1.62E-08
1.36E-06	-4.63E-05	-1.62E-07	
76	-5.56E-05	2.21E-06	0.000174
1.86E-06	-5.39E-05	-1.72E-07	
77	-5.55E-05	3.08E-06	0.000462
2.45E-06	-6.13E-05	-1.79E-07	
78	-5.55E-05	3.95E-06	0.000773
2.89E-06	-6.29E-05	-1.74E-07	
79	-5.55E-05	4.76E-06	0.001074
3.15E-06	-5.72E-05	-1.52E-07	
80	-5.54E-05	5.42E-06	0.001324
3.22E-06	-4.22E-05	-1.13E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
81	-5.54E-05	-5.86E-06	0.001479
3.12E-06	-6.50E-05	-1.08E-08	
82	-5.54E-05	-6.05E-06	0.001495
2.89E-06	1.36E-05	-1.13E-08	
83	-5.54E-05	-5.97E-06	0.001339
2.63E-06	4.88E-05	4.27E-08	
84	-5.54E-05	-5.65E-06	0.001008
2.51E-06	8.57E-05	8.86E-08	
85	-5.53E-05	-5.19E-06	0.000484
2.81E-06	0.000126	9.23E-08	
86	-5.53E-05	-4.99E-06	-3.46E-08
3.44E-06	0.000153	1.34E-08	
87	-5.53E-05	-5.14E-06	-0.000577
4.15E-06	0.000179	-8.19E-08	
88	-5.53E-05	-5.71E-06	-0.001552
5.74E-06	0.000213	-1.24E-07	
89	-5.53E-05	-6.35E-06	-0.002677
7.52E-06	0.000238	-1.19E-07	
90	-5.53E-05	-6.94E-06	-0.003901
9.23E-06	0.000254	-1.02E-07	
91	-5.53E-05	-7.43E-06	-0.005172
1.06E-05	0.000256	-7.66E-08	
92	-5.53E-05	-7.75E-06	-0.006415
1.13E-05	0.000243	-3.58E-08	
93	-5.53E-05	-7.82E-06	-0.007553
1.14E-05	0.000213	2.98E-08	
94	-5.52E-05	-7.46E-06	-0.008518
1.07E-05	0.000175	1.32E-07	
95	-5.51E-05	-6.46E-06	-0.009280
9.39E-06	0.000130	2.85E-07	
96	-5.50E-05	-4.61E-06	-0.009796
6.83E-06	7.74E-05	4.84E-07	
97	-5.48E-05	-2.69E-06	-0.010000
4.16E-06	3.99E-05	6.25E-07	
98	-5.45E-05	8.44E-07	-0.010065
-1.09E-06	-1.44E-05	8.03E-07	
99	-5.41E-05	5.18E-06	-0.009854
-7.64E-06	-7.07E-05	9.38E-07	
100	-5.37E-05	1.00E-05	-0.009364
-1.45E-05	-0.000125	9.96E-07	
101	-5.32E-05	1.49E-05	-0.008617
-2.11E-05	-0.000174	9.82E-07	
102	-5.27E-05	1.97E-05	-0.007637
-2.70E-05	-0.000217	9.16E-07	
103	-5.22E-05	2.40E-05	-0.006458
-3.19E-05	-0.000253	8.17E-07	
104	-5.18E-05	2.77E-05	-0.005117
-3.58E-05	-0.000282	6.88E-07	
105	-5.14E-05	3.07E-05	-0.003653
-3.88E-05	-0.000303	5.04E-07	
106	-5.11E-05	3.26E-05	-0.002100
-4.10E-05	-0.000318	2.16E-07	
107	-5.11E-05	3.28E-05	-0.000489
-4.26E-05	-0.000325	-1.64E-07	
-4.30E-05	-0.000326	-2.31E-07	-1.32E-08
109	-5.48E-05	-4.06E-06	9.99E-10
1.31E-06	-7.45E-06	3.25E-08	
110	-5.48E-05	-3.93E-06	3.30E-05
1.25E-06	-7.15E-06	2.85E-08	
111	-5.49E-05	-3.81E-06	6.68E-05
1.15E-06	-6.71E-06	2.76E-08	
112	-5.49E-05	-3.75E-06	9.49E-05
1.01E-06	-4.88E-06	9.22E-09	
113	-5.49E-05	-3.71E-06	0.000115
8.16E-07	-2.90E-06	1.00E-08	
114	-5.49E-05	-3.64E-06	0.000123
5.47E-07	-1.50E-07	-2.00E-08	
115	-5.49E-05	-3.50E-06	0.000118
2.14E-07	2.67E-06	3.57E-08	
116	-5.49E-05	-3.28E-06	9.65E-05
-1.80E-07	6.11E-06	5.36E-08	
117	-5.50E-05	-2.98E-06	5.73E-05
-6.15E-07	9.79E-06	7.04E-08	
118	-5.50E-05	-2.67E-06	-4.83E-09
-1.06E-06	1.34E-05	8.37E-08	
119	-5.50E-05	-2.30E-06	-5.05E-05
-1.35E-06	1.57E-05	8.97E-08	
120	-5.50E-05	-1.85E-06	-0.000134
-1.72E-06	1.79E-05	9.24E-08	
121	-5.51E-05	-1.41E-06	-0.000224
-1.96E-06	1.83E-05	8.76E-08	
122	-5.51E-05	-1.01E-06	-0.000312
-2.06E-06	1.66E-05	7.48E-08	
123	-5.51E-05	-6.86E-07	-0.000384
-1.97E-06	1.23E-05	5.43E-08	
124	-5.51E-05	-4.83E-07	-0.000430
-1.70E-06	5.58E-06	2.72E-08	
125	-5.51E-05	-4.27E-07	-0.000436
-1.26E-06	-3.54E-06	-4.82E-09	
126	-5.51E-05	-5.33E-07	-0.000393
-7.00E-07	-1.39E-05	-3.94E-08	
127	-5.50E-05	-8.10E-07	-0.000298
-4.50E-08	-2.52E-05	-7.33E-08	
128	-5.50E-05	-1.24E-06	-0.000144
6.95E-07	-3.74E-05	-1.03E-07	
129	-5.50E-05	-1.62E-06	1.63E-08
1.21E-06	-4.58E-05	-1.17E-07	
130	-5.50E-05	-2.04E-06	0.000172
1.70E-06	-5.34E-05	-1.25E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
131	-5.49E-05	-2.66E-06	0.000455
2.34E-06	-6.07E-05	-1.28E-07	
132	-5.49E-05	-3.28E-06	0.000761
2.87E-06	-6.24E-05	-1.22E-07	
133	-5.49E-05	-3.85E-06	0.001059
3.27E-06	-5.68E-05	-1.09E-07	
134	-5.48E-05	-4.33E-06	0.001306
3.53E-06	-4.20E-05	-8.73E-08	
135	-5.48E-05	-4.69E-06	0.001459
3.65E-06	-1.87E-05	-6.05E-08	
136	-5.48E-05	-4.92E-06	0.001476
3.69E-06	1.32E-05	-3.13E-08	
137	-5.48E-05	-5.01E-06	0.001324
3.73E-06	4.81E-05	-6.81E-09	
138	-5.48E-05	-5.02E-06	0.000998
3.85E-06	8.50E-05	1.30E-08	
139	-5.48E-05	-5.04E-06	0.000480
4.20E-06	0.000125	-1.34E-08	
140	-5.48E-05	-5.14E-06	-3.87E-08
4.71E-06	0.000153	-4.27E-08	
141	-5.47E-05	-5.36E-06	-0.000575
5.50E-06	0.000180	-8.56E-08	
142	-5.47E-05	-5.92E-06	-0.001549
6.94E-06	0.000214	-1.30E-07	
143	-5.46E-05	-6.64E-06	-0.002672
8.36E-06	0.000239	-1.46E-07	
144	-5.44E-05	-7.37E-06	-0.003895
9.59E-06	0.000255	-1.34E-07	
145	-5.42E-05	-7.96E-06	-0.005164
1.04E-05	0.000257	-9.72E-08	
146	-5.40E-05	-8.35E-06	-0.006407
1.05E-05	0.000244	-3.56E-08	
147	-5.37E-05	-8.36E-06	-0.007546
9.81E-06	0.000215	5.49E-08	
148	-5.33E-05	-7.84E-06	-0.008514
8.34E-06	0.000177	1.75E-07	
149	-5.29E-05	-6.66E-06	-0.009278
6.13E-06	0.000131	3.20E-07	
150	-5.25E-05	-4.74E-06	-0.009796
2.83E-06	7.83E-05	4.75E-07	
151	-5.22E-05	-2.94E-06	-0.010000
-1.22E-07	3.98E-05	5.79E-07	
152	-5.18E-05	2.16E-07	-0.010058
-5.14E-06	-1.59E-05	7.12E-07	
153	-5.09E-05	3.97E-06	-0.009838
-1.10E-05	-7.28E-05	8.25E-07	
154	-5.02E-05	8.21E-06	-0.009339
-1.71E-05	-0.000127	9.02E-07	
155	-4.95E-05	1.27E-05	-0.008586
-2.29E-05	-0.000176	9.34E-07	
156	-4.87E-05	1.73E-05	-0.007603
-2.82E-05	-0.000219	9.16E-07	
157	-4.79E-05	2.16E-05	-0.006425
-3.26E-05	-0.000254	8.48E-07	
158	-4.73E-05	2.55E-05	-0.005088
-3.60E-05	-0.000282	7.26E-07	
159	-4.67E-05	2.86E-05	-0.003631
-3.84E-05	-0.000303	5.37E-07	
160	-4.63E-05	3.07E-05	-0.002086
-3.99E-05	-0.000318	3.15E-07	
161	-4.61E-05	3.17E-05	-0.000485
-4.04E-05	-0.000325	1.14E-07	
162	-4.60E-05	3.19E-05	-1.11E-08
-4.03E-05	-0.000326	8.42E-08	
163	-5.57E-05	-3.33E-06	-1.19E-06
7.93E-07	-7.83E-06	-8.56E-07	
164	-5.57E-05	-3.64E-06	3.35E-05
1.03E-06	-7.46E-06	-6.74E-07	
165	-5.56E-05	-3.90E-06	6.87E-05
1.09E-06	-6.96E-06	-4.60E-07	
166	-5.56E-05	-4.04E-06	9.80E-05
1.01E-06	-5.03E-06	-4.65E-07	
167	-5.56E-05	-4.07E-06	0.000119
8.29E-07	-2.98E-06	-2.60E-07	
168	-5.56E-05	-4.00E-06	0.000127
5.52E-07	-7.46E-07	1.08E-08	
169	-5.56E-05	-3.82E-06	0.000122
2.02E-07	2.75E-06	3.31E-07	
170	-5.56E-05	-3.55E-06	0.000100
-2.15E-07	6.27E-06	6.95E-07	
171	-5.56E-05	-3.17E-06	5.91E-05
-6.72E-07	1.00E-05	1.09E-06	
172	-5.57E-05	-2.68E-06	-4.40E-08
-1.14E-06	1.37E-05	1.37E-06	
173	-5.57E-05	-2.28E-06	-5.20E-05
-1.45E-06	1.60E-05	1.60E-06	
174	-5.57E-05	-1.67E-06	-0.000138
-1.80E-06	1.82E-05	1.96E-06	
175	-5.58E-05	-1.06E-06	-0.000231
-2.02E-06	1.87E-05	2.01E-06	
176	-5.58E-05	-5.06E-07	-0.000321
-2.10E-06	1.69E-05	1.85E-06	
177	-5.59E-05	-6.35E-08	-0.000395
-1.98E-06	1.25E-05	1.42E-06	
178	-5.59E-05	2.11E-07	-0.000442
-1.69E-06	5.66E-06	7.32E-07	
179	-5.59E-05	2.74E-07	-0.000448
-1.21E-06	-3.65E-06	-2.20E-07	
180	-5.59E-05	9.56E-08	-0.000404
-5.94E-07	-1.42E-05	-1.30E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
181	-5.59E-05	-3.29E-07	-0.000306
1.27E-07	-2.57E-05	-2.48E-06	
182	-5.59E-05	-9.86E-07	-0.000147
9.12E-07	-3.81E-05	-3.52E-06	
183	-5.59E-05	-1.58E-06	1.41E-07
1.48E-06	-4.65E-05	-4.03E-06	
184	-5.59E-05	-2.26E-06	0.000176
2.00E-06	-5.41E-05	-5.07E-06	
185	-5.59E-05	-3.28E-06	0.000466
2.55E-06	-6.14E-05	-6.21E-06	
186	-5.59E-05	-4.30E-06	0.000778
2.96E-06	-6.32E-05	-6.36E-06	
187	-5.59E-05	-5.22E-06	0.001082
3.23E-06	-5.73E-05	-5.76E-06	
188	-5.59E-05	-5.94E-06	0.001333
3.32E-06	-4.23E-05	-4.18E-06	
189	-5.59E-05	-6.38E-06	0.001488
3.23E-06	-1.85E-05	-1.70E-06	
190	-5.59E-05	-6.52E-06	0.001503
2.99E-06	1.38E-05	1.74E-06	
191	-5.59E-05	-6.38E-06	0.001345
2.61E-06	4.82E-05	5.46E-06	
192	-5.59E-05	-6.06E-06	0.001011
2.22E-06	8.61E-05	9.42E-06	
193	-5.59E-05	-5.71E-06	0.000484
2.21E-06	0.000126	1.28E-05	
194	-5.59E-05	-5.53E-06	-1.02E-06
2.60E-06	0.000153	1.43E-05	
195	-5.59E-05	-5.45E-06	-0.000579
3.54E-06	0.000179	1.81E-05	
196	-5.60E-05	-5.71E-06	-0.001556
5.35E-06	0.000213	2.31E-05	
197	-5.61E-05	-6.14E-06	-0.002680
7.34E-06	0.000238	2.58E-05	
198	-5.62E-05	-6.66E-06	-0.003905
9.08E-06	0.000253	2.75E-05	
199	-5.63E-05	-7.12E-06	-0.005175
1.03E-05	0.000255	2.79E-05	
200	-5.65E-05	-7.47E-06	-0.006418
1.10E-05	0.000242	2.65E-05	
201	-5.66E-05	-7.60E-06	-0.007555
1.09E-05	0.000212	2.30E-05	
202	-5.68E-05	-7.41E-06	-0.008518
1.03E-05	0.000174	1.94E-05	
203	-5.69E-05	-6.69E-06	-0.009277
9.31E-06	0.000129	1.47E-05	
204	-5.69E-05	-5.12E-06	-0.009791
7.17E-06	7.69E-05	8.38E-06	
205	-5.69E-05	-3.26E-06	-0.009995
4.88E-06	4.01E-05	4.73E-06	
206	-5.68E-05	6.59E-07	-0.010064
-7.00E-07	-1.33E-05	-7.46E-07	
207	-5.65E-05	5.56E-06	-0.009858
-7.65E-06	-6.93E-05	-6.74E-06	
208	-5.63E-05	1.08E-05	-0.009374
-1.48E-05	-0.000123	-1.24E-05	
209	-5.59E-05	1.60E-05	-0.008631
-2.13E-05	-0.000173	-1.75E-05	
210	-5.56E-05	2.09E-05	-0.007653
-2.71E-05	-0.000217	-2.20E-05	
211	-5.53E-05	2.51E-05	-0.006473
-3.19E-05	-0.000253	-2.57E-05	
212	-5.49E-05	2.87E-05	-0.005131
-3.55E-05	-0.000281	-2.85E-05	
213	-5.46E-05	3.17E-05	-0.003664
-3.82E-05	-0.000303	-3.06E-05	
214	-5.43E-05	3.41E-05	-0.002108
-4.01E-05	-0.000317	-3.27E-05	
215	-5.40E-05	3.63E-05	-0.000493
-4.14E-05	-0.000325	-3.24E-05	
216	-5.41E-05	3.60E-05	-4.32E-06
-4.17E-05	-0.000325	-2.76E-05	
217	-5.51E-05	-4.19E-06	8.89E-07
1.04E-06	-7.45E-06	-8.06E-07	
218	-5.51E-05	3.99E-06	3.40E-05
1.01E-06	-7.19E-06	-6.06E-07	
219	-5.51E-05	-3.67E-06	6.78E-05
9.82E-07	-6.31E-06	-5.20E-07	
220	-5.51E-05	-3.85E-06	9.62E-05
9.12E-07	-4.91E-06	-3.66E-07	
221	-5.51E-05	-3.83E-06	0.000116
7.57E-07	-2.92E-06	-1.63E-07	
222	-5.51E-05	-3.62E-06	0.000125
5.07E-07	-3.45E-07	9.80E-08	
223	-5.52E-05	-3.62E-06	0.000119
1.76E-07	2.70E-06	4.05E-07	
224	-5.52E-05	-3.38E-06	9.76E-05
-2.20E-07	6.16E-06	7.57E-07	
225	-5.52E-05	-3.05E-06	5.80E-05
-6.64E-07	9.66E-06	1.14E-06	
226	-5.52E-05	-2.63E-06	4.28E-08
-1.13E-06	1.35E-05	1.41E-06	
227	-5.53E-05	-2.30E-06	-5.09E-05
-1.43E-06	1.58E-05	1.63E-06	
228	-5.53E-05	-1.80E-06	-0.000135
-1.77E-06	1.80E-05	1.99E-06	
229	-5.53E-05	-1.29E-06	-0.000226
-2.00E-06	1.84E-05	2.04E-06	
230	-5.53E-05	-8.40E-07	-0.000315
-2.07E-06	1.67E-05	1.87E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
231	-5.54E-05	-4.78E-07	-0.000388
-1.96E-06	1.24E-05	1.44E-06	
232	-5.54E-05	-2.48E-07	-0.000434
-1.67E-06	5.61E-06	7.51E-07	
233	-5.54E-05	-1.85E-07	-0.000440
-1.20E-06	-3.57E-06	-1.95E-07	
234	-5.53E-05	-3.14E-07	-0.000397
-5.85E-07	-1.40E-05	-1.27E-06	
235	-5.53E-05	-6.42E-07	-0.000301
1.15E-07	-2.53E-05	-2.45E-06	
236	-5.53E-05	-1.16E-06	-0.000145
9.02E-07	-3.76E-05	-3.48E-06	
237	-5.53E-05	-1.62E-06	-1.56E-07
1.48E-06	-4.61E-05	-3.99E-06	
238	-5.52E-05	-2.12E-06	0.000173
1.97E-06	-5.36E-05	-4.89E-06	
239	-5.52E-05	-2.86E-06	0.000458
2.52E-06	-6.10E-05	-6.20E-06	
240	-5.52E-05	-3.62E-06	0.000767
2.94E-06	-6.27E-05	-6.37E-06	
241	-5.51E-05	-4.31E-06	0.001067
3.22E-06	-5.69E-05	-5.79E-06	
242	-5.51E-05	-4.89E-06	0.001315
3.31E-06	-4.21E-05	-4.25E-06	
243	-5.51E-05	-5.31E-06	0.001469
3.23E-06	-1.87E-05	-1.80E-06	
244	-5.51E-05	-5.54E-06	0.001486
2.99E-06	1.33E-05	1.58E-06	
245	-5.50E-05	-5.57E-06	0.001332
2.60E-06	4.84E-05	5.25E-06	
246	-5.50E-05	-5.43E-06	0.001004
2.23E-06	8.53E-05	9.17E-06	
247	-5.49E-05	-5.23E-06	0.000483
2.13E-06	0.000125	1.25E-05	
248	-5.49E-05	-5.16E-06	1.32E-06
2.41E-06	0.000153	1.41E-05	
249	-5.48E-05	-5.32E-06	-0.000574
3.48E-06	0.000180	1.79E-05	
250	-5.48E-05	-5.90E-06	-0.001549
5.43E-06	0.000214	2.30E-05	
251	-5.47E-05	-6.55E-06	-0.002674
7.43E-06	0.000239	2.56E-05	
252	-5.46E-05	-7.19E-06	-0.003898
9.20E-06	0.000254	2.73E-05	
253	-5.46E-05	-7.70E-06	-0.005168
1.05E-05	0.000257	2.76E-05	
254	-5.45E-05	-7.99E-06	-0.006412
1.11E-05	0.000243	2.62E-05	
255	-5.43E-05	-7.98E-06	-0.007551
1.11E-05	0.000214	2.32E-05	
256	-5.42E-05	-7.49E-06	-0.008519
1.06E-05	0.000176	1.91E-05	
257	-5.40E-05	-6.35E-06	-0.009282
9.40E-06	0.000131	1.43E-05	
258	-5.37E-05	-4.42E-06	-0.009800
7.05E-06	7.78E-05	8.00E-06	
259	-5.34E-05	-2.53E-06	-0.010005
4.53E-06	3.97E-05	4.29E-06	
260	-5.30E-05	7.87E-07	-0.010066
-9.64E-07	-1.54E-05	-1.30E-06	
261	-5.26E-05	4.79E-06	-0.009849
-7.85E-06	-7.20E-05	-4.96E-06	
262	-5.20E-05	9.26E-06	-0.009354
-1.49E-05	-0.000126	-1.31E-05	
263	-5.15E-05	1.40E-05	-0.008603
-2.15E-05	-0.000175	-1.82E-05	
264	-5.09E-05	1.86E-05	-0.007621
-2.73E-05	-0.000218	-2.27E-05	
265	-5.04E-05	2.28E-05	-0.006442
-3.21E-05	-0.000254	-2.64E-05	
266	-4.98E-05	2.66E-05	-0.005103
-3.59E-05	-0.000282	-2.92E-05	
267	-4.94E-05	2.97E-05	-0.003641
-3.87E-05	-0.000303	-3.12E-05	
268	-4.91E-05	3.16E-05	-0.002092
-4.05E-05	-0.000318	-3.26E-05	
269	-4.90E-05	3.26E-05	-0.000485
-4.10E-05	-0.000326	-2.28E-05	
270	-4.91E-05	3.16E-05	2.63E-06
-4.07E-05	-0.000326	-2.81E-05	
271	-4.73E-05	7.03E-24	.000000
1.51E-06	-7.76E-06	-1.95E-07	
272	.000000	-2.59E-22	.000000
-3.26E-07	1.38E-05	1.17E-07	
273	.000000	.000000	.000000
-1.19E-07	-4.68E-05	-2.05E-07	
274	-0.000240	5.77E-23	.000000
4.98E-06	0.000153	6.01E-08	
275	-0.000108	2.11E-22	-0.010000
1.01E-06	4.01E-05	2.45E-07	
276	0.000301	-9.49E-23	.000000
-3.58E-05	-0.000327	7.41E-07	
277	-4.71E-05	1.74E-22	.000000
-9.93E-08	-7.68E-06	5.88E-08	
278	-7.19E-05	2.78E-22	.000000
-3.62E-07	1.36E-05	1.10E-07	
279

-7.07E-07	-2.87E-05	-1.38E-07	
33	1.48E-05	4.93E-07	0.000108
-6.98E-07	-3.32E-05	-1.61E-07	
34	1.51E-05	-3.54E-07	0.000286
-6.24E-07	-3.76E-05	-1.74E-07	
35	1.55E-05	-1.24E-06	0.000477
-4.51E-07	-3.85E-05	-1.76E-07	
36	1.59E-05	-2.12E-06	0.000663
-1.31E-07	-3.49E-05	-1.71E-07	
37	1.63E-05	-2.96E-06	0.000816
3.89E-07	-2.56E-05	-1.63E-07	
38	1.68E-05	-3.78E-06	0.000909
1.10E-06	-1.11E-05	-1.60E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
39	1.72E-05	-4.65E-06	0.000917
2.05E-06	8.57E-06	-1.85E-07	
40	1.76E-05	-5.76E-06	0.000820
3.09E-06	3.00E-05	-2.63E-07	
41	1.79E-05	-7.41E-06	0.000615
4.26E-06	5.23E-05	-3.94E-07	
42	1.81E-05	-9.68E-06	0.000294
5.66E-06	7.60E-05	-4.87E-07	
43	1.82E-05	-1.13E-05	-9.74E-09
6.74E-06	9.21E-05	-3.98E-07	
44	1.84E-05	-1.29E-05	-0.000518
9.67E-06	0.000115	-2.89E-07	
45	1.86E-05	-1.46E-05	-0.001154
1.29E-05	0.000139	-3.89E-07	
46	1.87E-05	-1.68E-05	-0.001912
1.62E-05	0.000163	-4.76E-07	
47	1.88E-05	-1.93E-05	-0.002783
1.94E-05	0.000184	-4.85E-07	
48	1.89E-05	-2.16E-05	-0.003757
2.22E-05	0.000203	-4.29E-07	
49	1.90E-05	-2.36E-05	-0.004819
2.47E-05	0.000219	-3.40E-07	
50	1.90E-05	-2.51E-05	-0.005953
2.66E-05	0.000232	-2.57E-07	
51	1.91E-05	-2.63E-05	-0.007142
2.82E-05	0.000241	-2.28E-07	
52	1.91E-05	-2.76E-05	-0.008369
2.92E-05	0.000247	-2.93E-07	
53	1.91E-05	-2.93E-05	-0.009622
2.97E-05	0.000251	-3.93E-07	
54	1.90E-05	-2.99E-05	-0.010000
2.95E-05	0.000251	-4.03E-07	
55	1.03E-05	7.79E-07	-1.40E-10
-8.91E-08	1.43E-06	-8.22E-09	
56	1.03E-05	7.49E-07	-6.29E-06
-1.40E-07	1.37E-06	-3.99E-09	
57	1.03E-05	7.48E-07	-1.27E-05
-1.67E-07	1.20E-06	2.75E-09	
58	1.03E-05	7.67E-07	-1.81E-05
-1.70E-07	9.28E-07	4.06E-09	
59	1.03E-05	7.81E-07	-2.19E-05
-1.51E-07	5.50E-07	1.23E-09	
60	1.03E-05	7.76E-07	-2.35E-05
-1.11E-07	6.37E-08	-3.47E-09	
61	1.03E-05	7.45E-07	-2.25E-05
-5.30E-08	1.08E-07	-8.82E-09	
62	1.03E-05	6.88E-07	-1.84E-05
2.20E-08	-1.16E-06	-1.44E-08	
63	1.03E-05	6.03E-07	-1.09E-05
1.12E-07	-1.85E-06	-2.01E-08	
64	1.03E-05	4.89E-07	9.07E-10
2.12E-07	-2.53E-06	-2.63E-08	
65	1.03E-05	3.92E-07	9.59E-06
2.82E-07	-2.96E-06	-2.99E-08	
66	1.03E-05	2.38E-07	2.55E-05
3.81E-07	-3.37E-06	-3.18E-08	
67	1.04E-05	8.30E-08	4.26E-05
4.63E-07	-3.45E-06	-3.07E-08	
68	1.04E-05	-5.95E-08	5.92E-05
5.21E-07	-3.12E-06	-2.65E-08	
69	1.04E-05	-1.74E-07	7.30E-05
5.47E-07	-2.31E-06	-1.93E-08	
70	1.04E-05	-2.45E-07	8.16E-05
5.34E-07	-1.04E-06	-9.14E-09	
71	1.04E-05	-2.59E-07	8.28E-05
4.74E-07	6.86E-07	3.48E-09	
72	1.04E-05	-2.07E-07	7.47E-05
3.67E-07	2.64E-06	1.79E-08	
73	1.04E-05	-8.02E-08	5.65E-05
1.97E-07	4.77E-06	3.34E-08	
74	1.03E-05	1.24E-07	2.72E-05
-5.20E-08	7.05E-06	4.92E-08	
75	1.03E-05	3.13E-07	-3.00E-09
-2.61E-07	8.62E-06	5.98E-08	
76	1.03E-05	5.35E-07	-3.25E-05
-4.64E-07	1.00E-05	6.82E-08	
77	1.03E-05	8.90E-07	-8.60E-05
-7.00E-07	1.14E-05	7.43E-08	
78	1.02E-05	1.26E-06	-0.000144
-8.51E-07	7.30E-06	4.58E-08	
79	1.02E-05	1.60E-06	-0.000200
-9.35E-07	1.06E-05	6.40E-08	
80	1.02E-05	1.88E-06	-0.000246
-9.63E-07	7.84E-06	4.75E-08	
81	1.01E-05	2.06E-06	-0.000275
-9.48E-07	3.45E-06	2.45E-08	
82	1.01E-05	2.11E-06	-0.000278
-8.99E-07	-2.53E-06	-3.84E-09	
83	1.01E-05	2.02E-06	-0.000249
-8.26E-07	-9.07E-06	-3.61E-08	
84	1.01E-05	1.76E-06	-0.000187
-7.47E-07	-1.59E-05	-7.02E-08	
85	1.00E-05	1.34E-06	-8.99E-05
-6.86E-07	-2.33E-05	-1.01E-07	
86	9.99E-06	9.68E-07	9.74E-09
-6.75E-07	-2.84E-05	-1.10E-07	
87	9.96E-06	5.86E-07	0.000107
-6.33E-07	-3.30E-05	-1.14E-07	
88	9.91E-06	-3.61E-09	0.000283
-5.59E-07	-3.72E-05	-1.28E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
89	9.86E-06	-6.65E-07	0.000472
-4.21E-07	-3.83E-05	-1.42E-07	
90	9.80E-06	-1.39E-06	0.000655
-1.63E-07	-3.48E-05	-1.53E-07	
91	9.72E-06	-2.16E-06	0.000807
2.74E-07	-2.56E-05	-1.61E-07	
92	9.64E-06	-2.97E-06	0.000900
8.96E-07	-1.13E-05	-1.70E-07	
93	9.56E-06	-3.83E-06	0.000910
1.76E-06	8.28E-06	-1.76E-07	
94	9.47E-06	-4.68E-06	0.000814
2.78E-06	2.96E-05	-1.67E-07	
95	9.38E-06	-5.46E-06	0.000613
4.08E-06	5.20E-05	-1.44E-07	
96	9.29E-06	-6.20E-06	0.000294
5.97E-06	7.62E-05	-1.76E-07	
97	9.20E-06	-7.06E-06	-1.22E-08
7.79E-06	9.27E-05	-3.57E-07	
98	9.00E-06	-9.57E-06	-0.000519
9.95E-06	0.000116	-5.89E-07	
99	8.74E-06	-1.25E-05	-0.001159
1.29E-05	0.000141	-5.81E-07	
100	8.48E-06	-1.53E-05	-0.001920
1.62E-05	0.000164	-5.26E-07	
101	8.24E-06	-1.78E-05	-0.002793
1.94E-05	0.000186	-4.75E-07	
102	8.00E-06	-2.00E-05	-0.003768
2.25E-05	0.000205	-4.24E-07	
103	7.77E-06	-2.20E-05	-0.004830
2.52E-05	0.000220	-3.61E-07	
104	7.58E-06	-2.36E-05	-0.005962
2.75E-05	0.000233	-2.79E-07	
105	7.43E-06	-2.47E-05	-0.007148
2.95E-05	0.000242	-1.55E-07	
106	7.37E-06	-2.50E-05	-0.008372
3.12E-05	0.000248	4.88E-08	
107	7.45E-06	-2.42E-05	-0.009623
3.29E-05	0.000251	3.23E-07	
108	7.50E-06	-2.29E-05	-0.010000
3.33E-05	0.000252	3.71E-07	
109	9.94E-06	7.19E-07	-1.85E-10
-2.48E-07	1.38E-06	-3.25E-09	
110	9.94E-06	7.06E-07	-6.13E-06
-2.40E-07	1.33E-06	-2.43E-09	
111	9.94E-06	6.99E-07	-1.24E-05
-2.24E-07	1.16E-06	-4.57E-10	
112	9.94E-06	7.00E-07	-1.76E-05
-2.00E-07	9.03E-07	7.46E-10	
113	9.94E-06	7.03E-07	-2.13E-05
-1.66E-07	5.36E-07	-1.36E-10	
114	9.94E-06	6.96E-07	-2.29E-05
-1.17E-07	6.09E-08	-3.07E-09	
115	9.94E-06	6.71E-07	-2.18E-05
-5.46E-08	-5.00E-07	-7.38E-09	
116	9.95E-06	6.23E-07	-1.79E-05
2.18E-08	-1.14E-06	-1.23E-08	
117	9.95E-06	5.50E-07	-1.06E-05
1.10E-07	-1.81E-06	-1.72E-08	
118	9.96E-06	4.55E-07	8.59E-10
2.04E-07	-2.47E-06	-2.15E-08	
119	9.96E-06	3.77E-07	9.31E-06
2.72E-07	-2.89E-06	-2.36E-08	
120	9.97E-06	2.57E-07	2.47E-05
3.67E-07	-3.28E-06	-2.48E-08	
121	9.98E-06	1.38E-07	4.13E-05
4.44E-07	-3.86E-06	-2.35E-08	
122	9.98E-06	3.04E-08	5.74E-05
4.94E-07	-3.03E-06	-1.98E-08	
123	9.98E-06	-5.27E-08	7.06E-05
5.10E-07	-2.23E-06	-1.37E-08	
124	9.98E-06	-1.02E-07	7.89E-05
4.86E-07	-9.90E-07	-5.83E-09	
125	9.98E-06	-1.08E-07	7.99E-05
4.17E-07	6.92E-07	3.52E-09	
126	9.97E-06	-6.55E-08	7.19E-05
3.06E-07	2.59E-06	1.40E-08	
127	9.96E-06	3.03E-08	5.43E-05
1.48E-07	4.63E-06	2.53E-08	
128	9.96E-06	1.84E-07	2.61E-05
-6.01E-08	6.86E-06	3.35E-08	
129	9.95E-06	3.28E-07	-3.00E-09
-2.21E-07	8.30E-06	4.58E-08	
130	9.77E-06	4.93E-07	-3.13E-05
-3.86E-07	9.77E-06	5.26E-08	
131	9.49E-06	7.62E-07	-8.34E-05
-5.99E-07	1.12E-05	5.90E-08	
132	9.21E-06	1.05E-06	-0.000140
-7.59E-07	1.16E-05	6.04E-08	
133	8.89E-06	1.34E-06	-0.000195
-8.68E-07	1.05E-05	5.54E-08	
134	8.57E-06	1.58E-06	-0.000241
-9.30E-07	7.79E-06	4.38E-08	
135	8.24E-06	1.78E-06	-0.000269
-9.48E-07	3.47E-06	2.61E-08	
136	7.92E-06	1.83E-06	-0.000273
-9.31E-07	-2.44E-06	3.44E-09	
137	7.61E-06	1.79E-06	-0.000244
-8.91E-07	-8.91E-06	-2.19E-08	
138	7.32E-06	1.62E-06	-0.000184
-8.31E-07	-1.57E-05	-4.71E-08	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
139	7.05E-06	1.34E-06	-8.85E-05
-7.66E-07	-2.31E-05	-6.90E-08	
140	6.86E-06	1.08E-06	9.98E-09
-7.33E-07	-2.82E-05	-8.03E-08	
141	6.67E-06	7.99E-07	0.000105
-7.01E-07	-3.27E-05	-9.83E-08	
142	6.37E-06	3.50E-07	0.000279
-5.98E-07	-3.72E-05	-9.96E-08	
143	6.04E-06	-1.61E-07	0.000466
-3.99E-07	-3.81E-05	-1.14E-07	
144	5.68E-06	-7.44E-07	0.000647
-5.69E-08	-3.46E-05	-1.30E-07	
145	5.28E-06	-1.41E-06	0.000798
4.89E-07	-2.56E-05	-1.46E-07	
146	4.86E-06	-2.14E-06	0.000891
1.24E-06	-1.14E-05	-1.59E-07	
147	4.44E-06	-2.92E-06	0.000901
2.21E-06	7.98E-06	-1.68E-07	
148	4.03E-06	-3.75E-06	0.000808
3.32E-06	2.92E-05	-1.78E-07	
149	3.64E-06	-4.67E-06	0.000609
4.58E-06	5.17E-05	-2.10E-07	
150	3.26E-06	-5.85E-06	0.000293
6.21E-06	7.62E-05	-2.85E-07	
151	2.98E-06	-6.95E-06	-1.73E-08
7.65E-06	9.33E-05	-3.63E-07	
152	2.55E-06	-8.58E-06	-0.000521
1.03E-05	0.000118	-4.64E-07	
153	2.07E-06	-1.14E-05	-0.001164
1.35E-05	0.000142	-5.14E-07	
154	1.57E-06	-1.39E-05	-0.001929
1.68E-05	0.000166	-5.12E-07	
155	1.07E-06	-1.63E-05	-0.002805
1.99E-05	0.000187	-4.70E-07	
156	6.10E-07	-1.86E-05	-0.003781
2.28E-05	0.000206	-4.32E-07	
157	1.92E-07	-2.05E-05	-0.004842
2.53E-05	0.000221	-3.66E-07	
158	-1.62E-07	-2.21E-05	-0.005972
2.73E-05	0.000234	-2.70E-07	
159	-4.28E-07	-2.31E-05	-0.007156
2.89E-05	0.000243	-1.36E-07	
160	-5.84E-07	-2.34E-05	-0.008377
3.01E-05	0.000249	2.39E-08	
161	-6.15E-07	-2.29E-05	-0.009624
3.07E-05	0.000252	1.69E-07	
162	-5.94E-07	-2.27E-05	-0.010000
3.08E-05	0.000253	1.91E-07	
163	1.05E-05	6.25E-07	2.35E-07
-1.44E-07	1.46E-06	4.82E-08	
164	1.05E-05	7.01E-07	-6.26E-06
-1.96E-07	1.39E-06	3.60E-08	
165	1.05E-05	7.68E-07	-1.28E-05
-2.13E-07	1.21E-06	2.04E-08	
166	1.05E-05	8.09E-07	-1.83E-05
-2.04E-07	9.38E-07	-5.59E-09	
167	1.05E-05	8.26E-07	-2.22E-05
-1.73E-07	5.56E-07	-4.34E-08	
168	1.05E-05	8.18E-07	-2.38E-05
-1.25E-07	6.43E-08	-9.32E-08	
169	1.05E-05	7.83E-07	-2.28E-05
-6.24E-08	-5.15E-07	-1.52E-07	
170	1.05E-05	7.21E-07	-1.86E-05
1.48E-08	-1.17E-06	-2.19E-07	
171	1.05E-05	6.27E-07	-1.11E-05
1.04E-07	-1.87E-06	-2.92E-07	
172	1.05E-05	5.03E-07	3.98E-09
2.06E-07	-2.56E-06	-3.37E-07	
173	1.05E-05	3.96E-07	9.74E-06
2.83E-07	-2.99E-06	-3.79E-07	
174	1.06E-05	2.29E-07	2.59E-05
3.81E-07	-3.41E-06	-4.52E-07	
175	1.06E-05	5.68E-08	4.33E-05
4.64E-07	-3.50E-06	-4.69E-07	
176	1.06E-05	-1.03E-07	6.02E-05
5.22E-07	-3.16E-06	-4.34E-07	
177	1.06E-05	-2.33E-07	7.42E-05
5.47E-07	-2.35E-06	-3.56E-07	
178	1.06E-05	-3.16E-07	8.30E-05
5.38E-07	-1.07E-06	-2.31E-07	
179	1.07E-05	-3.35E-07	8.43E-05
4.88E-07	6.80E-07	-5.78E-08	
180	1.07E-05	-2.77E-07	7.61E-05
3.98E-07	2.67E-06	1.38E-07	
181	1.07E-05	-1.34E-07	5.77E-05
2.57E-07	4.84E-06	3.55E-07	
182	1.08E-05	9.82E-08	2.78E-05
1.68E-08	7.19E-06	5.56E-07	
183	1.08E-05	3.15E-07	-2.92E-08
-2.70E-07	8.80E-06	6.65E-07	
184	1.09E-05	5.69E-07	-3.32E-05
-5.56E-07	1.02E-05	7.72E-07	
185	1.10E-05	9.85E-07	-8.74E-05
-7.73E-07	1.15E-05	8.55E-07	
186	1.11E-05	1.37E-06	-0.000146
-8.88E-07	1.18E-05	7.72E-07	
187	1.13E-05	1.74E-06	-0.000202
-9.50E-07	1.07E-05	5.42E-07	
188	1.14E-05	2.03E-06	-0.000249
-9.68E-07	7.85E-06	1.26E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
189	1.16E-05	2.21E-06	-0.000278
-9.50E-07	3.43E-06	-4.54E-07	
190	1.17E-05	2.24E-06	-0.000281
-8.99E-07	-2.58E-06	-1.21E-06	
191	1.19E-05	2.12E-06	-0.000251
-8.12E-07	-9.36E-06	-2.00E-06	
192	1.20E-05	1.84E-06	-0.000189
-6.99E-07	-1.60E-05	-2.84E-06	
193	1.22E-05	1.40E-06	-9.06E-05
-6.08E-07	-2.35E-05	-3.47E-06	
194	1.23E-05	9.97E-07	2.61E-08
-5.57E-07	-2.85E-05	-3.73E-06	
195	1.25E-05	5.30E-07	0.000108
-5.32E-07	-3.31E-05	-4.54E-06	
196	1.26E-05	-1.83E-07	0.000284
-5.01E-07	-3.75E-05	-5.45E-06	
197	1.27E-05	-9.54E-07	0.000475
-3.93E-07	-3.84E-05	-5.66E-06	
198	1.29E-05	-1.75E-06	0.000659
-1.44E-07	-3.48E-05	-5.42E-06	
199	1.30E-05	-2.55E-06	0.000811
2.75E-07	-2.56E-05	-4.59E-06	
200	1.32E-05	-3.37E-06	0.000905
8.67E-07	-1.12E-05	-3.21E-06	
201	1.33E-05	-4.22E-06	0.000913
1.64E-06	8.45E-06	-1.25E-06	
202	1.34E-05	-5.20E-06	0.000817
2.47E-06	2.98E-05	9.07E-07	
203	1.35E-05	-6.42E-06	0.000614
3.46E-06	5.22E-05	3.21E-06	
204	1.36E-05	-7.97E-06	0.000295
4.95E-06	7.59E-05	5.24E-06	
205	1.37E-05	-9.24E-06	1.06E-06
6.36E-06	9.24E-05	6.78E-06	
206	1.37E-05	-1.12E-05	-0.000518
9.08E-06	0.000116	9.82E-06	
207	1.37E-05	-1.36E-05	-0.001156
1.23E-05	0.000140	1.23E-05	
208	1.36E-05	-1.60E-05	-0.001916
1.58E-05	0.000164	1.48E-05	
209	1.35E-05	-1.85E-05	-0.002788
1.92E-05	0.000185	1.70E-05	
210	1.34E-05	-2.08E-05	-0.003762
2.22E-05	0.000204	1.89E-05	
211	1.32E-05	-2.28E-05	-0.004824
2.48E-05	0.000220	2.04E-05	
212	1.31E-05	-2.44E-05	-0.005957
2.70E-05	0.000232	2.16E-05	
213	1.30E-05	-2.56E-05	-0.007143
2.88E-05	0.000241	2.24E-05	
214	1.29E-05	-2.64E-05	-0.008369
3.03E-05	0.000248	2.35E-05	
215	1.28E-05	-2.72E-05	-0.009619
3.19E-05	0.000251	1.96E-05	
216	1.28E-05	-2.67E-05	-0.009996
3.25E-05	0.000251	1.97E-05	
217	1.01E-05	7.59E-07	-1.75E-07
-1.92E-07	1.39E-06	5.19E-08	
218	1.01E-05	7.33E-07	-6.32E-06
-1.91E-07	1.33E-06	3.38E-08	
219	1.01E-05	7.27E-07	-1.26E-05
-1.91E-07	1.17E-06	1.46E-08	
220	1.01E-05	7.35E-07	-1.79E-05
-1.83E-07	9.11E-07	-1.36E-08	
221	1.01E-05	7.42E-07	-2.16E-05
-1.58E-07	5.41E-07	-5.10E-08	
222	1.01E-05	7.39E-07	-2.32E-05
-1.15E-07	6.04E-08	-9.87E-08	
223	1.01E-05	7.07E-07	-2.22E-05
-5.64E-08	-5.06E-07	-1.55E-07	
224	1.01E-05	6.55E-07	-1.81E-05
1.60E-08	-1.15E-06	-2.19E-07	
225	1.01E-05	5.76E-07	-1.08E-05
1.01E-07	-1.91E-06	-2.90E-07	
226	1.01E-05	4.71E-07	-1.75E-09
1.99E-07	-2.50E-06	-3.32E-07	
227	1.01E-05	3.83E-07	9.44E-06
2.74E-07	-2.92E-06	-3.72E-07	
228	1.01E-05	2.47E-07	2.51E-05
3.71E-07	-3.32E-06	-4.43E-07	
229	1.01E-05	1.09E-07	4.19E-05
4.54E-07	-3.40E-06	-4.52E-07	
230	1.01E-05	-1.57E-08	5.83E-05
5.11E-07	-3.07E-06	-4.22E-07	
231	1.01E-05	-1.14E-07	7.18E-05
5.35E-07	-2.27E-06	-3.43E-07	
232	1.01E-05	-1.74E-07	8.02E-05
5.25E-07	-1.01E-06	-2.91E-07	
233	1.01E-05	-1.85E-07	8.13E-05
4.72E-07	6.93E-07	-4.62E-08	
234	1.01E-05	-1.37E-07	7.32E-05
3.76E-07	2.62E-06	1.47E-07	
235	1.00E-05	-2.77E-08	5.53E-05
2.28E-07	4.70E-06	3.59E-07	
236	9.95E-06	1.47E-07	2.66E-05
-7.32E-09	6.92E-06	5.49E-07	
237	9.89E-06	3.11E-07	3.30E-08
-2.62E-07	8.46E-06	6.48E-07	
238	9.82E-06	5.04E-07	-3.18E-05
-5.13E-07	9.88E-06	7.87E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
239	9.71E-06	8.16E-07	-8.46E-05
-7.30E-07	1.13E-05	9.17E-07	
240	9.58E-06	1.15E-06	-0.000142
-8.61E-07	1.16E-05	8.75E-07	
241	9.44E-06	1.46E-06	-0.000197
-9.34E-07	1.06E-05	6.89E-07	
242	9.29E-06	1.72E-06	-0.000244
-9.57E-07	7.82E-06	3.21E-07	
243	9.14E-06	1.91E-06	-0.000272
-9.42E-07	3.47E-06	-2.10E-07	
244	8.99E-06	1.97E-06	-0.000275
-8.93E-07	-2.48E-06	-9.12E-07	
245	8.83E-06	1.91E-06	-0.000247
-8.06E-07	-9.98E-06	-1.66E-06	
246	8.67E-06	1.70E-06	-0.000186
-7.04E-07	-1.58E-05	-2.44E-06	
247	8.50E-06	1.35E-06	-8.93E-05
-6.02E-07	-2.32E-05	-3.06E-06	
248	8.39E-06	1.03E-06	-5.57E-08
-5.28E-07	-2.83E-05	-3.34E-06	
249	8.26E-06	6.94E-07	0.000106
-5.17E-07	-3.29E-05	-4.10E-06	
250	8.08E-06	1.79E-07	0.000281
-4.90E-07	-3.73E-05	-4.94E-06	
251	7.89E-06	-4.13E-07	0.000469
-3.73E-07	-3.83E-05	-5.10E-06	
252	7.69E-06	-1.07E-06	0.000651
-1.09E-07	-3.47E-05	-4.81E-06	
253	7.48E-06	-1.80E-06	0.000803
3.30E-07	-2.57E-05	-3.94E-06	
254	7.27E-06	-2.58E-06	0.000896
9.46E-07	-1.14E-05	-2.53E-06	
255	7.05E-06	-3.41E-06	0.000906
1.76E-06	8.11E-06	-5.42E-07	
256	6.83E-06	-4.26E-06	0.000812
2.58E-06	2.95E-05	1.62E-06	
257	6.62E-06	-5.11E-06	0.000612
3.48E-06	5.19E-05	3.93E-06	
258	6.40E-06	-6.06E-06	0.000294
4.64E-06	7.64E-05	5.98E-06	
259	6.22E-06	-6.99E-06	-1.97E-07
5.63E-06	9.31E-05	7.66E-06	
260	5.90E-06	-9.31E-06	-0.000520
8.82E-06	0.000117	1.09E-05	
261	5.54E-06	-1.20E-05	-0.001161
1.25E-05	0.000142	1.34E-05	
262	5.19E-06	-1.48E-05	-0.001924
1.61E-05	0.000165	1.59E-05	
263	4.85E-06	-1.71E-05	-0.002799
1.95E-05	0.000187	1.80E-05	
264	4.52E-06	-1.93E-05	-0.003774
2.25E-05	0.000205	1.99E-05	
265	4.23E-06	-2.13E-05	-0.004836
2.52E-05	0.000221	2.15E-05	
266	3.98E-06	-2.29E-05	-0.005967
2.74E-05	0.000233	2.27E-05	
267	3.80E-06	-2.39E-05	-0.007153
2.93E-05	0.000242	2.35E-05	
268	3.72E-06	-2.42E-05	-0.008376
3.08E-05	0.000249	2.40E-05	
269	3.75E-06	-2.37E-05	-0.009626
3.17E-05	0.000252	1.68E-05	
270	3.87E-06	-2.27E-05	-0.010003
3.18E-05	0.000252	2.06E-05	
271	9.09E-06	-1.29E-23	.000000
-2.92E-07	1.45E-06	4.16E-08	
272	1.38E-05	-2.58E-24	.000000
6.84E-08	-2.60E-06	-3.09E-08	
273	.000000	.000000	.000000
1.76E-08	8.99E-06	7.43E-08	
274	4.90E-05	3.81E-24	.000000
-8.09E-07	-2.87E-05	-1.38E-07	
275	-9.23E-05	1.42E-22	.000000
9.95E-06	9.18E-05	-3.98E-07	
276	-0.000257	-6.37E-23	-0.010000

1.55E-05	0.000275	-3.35E-07	
38	-1.41E-05	-1.31E-05	-0.004838
1.67E-05	0.000290	-1.99E-07	
39	-1.44E-05	-1.38E-05	-0.006267
1.64E-05	0.000279	-5.86E-08	
40	-1.47E-05	-1.37E-05	-0.007587
1.47E-05	0.000248	8.27E-08	
41	-1.50E-05	-1.29E-05	-0.008716
1.18E-05	0.000202	2.49E-07	
42	-1.52E-05	-1.10E-05	-0.009579
7.35E-06	0.000143	5.21E-07	
43	-1.53E-05	-8.68E-06	-0.010000
3.36E-06	9.81E-05	8.51E-07	
44	-1.53E-05	-3.27E-06	-0.010326
-2.63E-06	3.21E-05	1.25E-06	
45	-1.52E-05	3.37E-06	-0.010311
-9.77E-06	-3.74E-05	1.37E-06	
46	-1.50E-05	1.02E-05	-0.009949
-1.72E-05	-0.000105	1.34E-06	
47	-1.49E-05	1.66E-05	-0.009264
-2.42E-05	-0.000167	1.22E-06	
48	-1.48E-05	2.23E-05	-0.008284
-3.04E-05	-0.000221	1.05E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
49	-1.47E-05	2.71E-05	-0.007052
-3.55E-05	-0.000267	8.56E-07	
50	-1.47E-05	3.10E-05	-0.005616
-3.94E-05	-0.000303	6.92E-07	
51	-1.46E-05	3.42E-05	-0.004023
-4.19E-05	-0.000329	6.29E-07	
52	-1.45E-05	3.76E-05	-0.002318
-4.33E-05	-0.000348	7.39E-07	
53	-1.42E-05	4.18E-05	-0.000540
-4.32E-05	-0.000358	9.24E-07	
54	-1.41E-05	4.32E-05	-1.46E-08
-4.27E-05	-0.000359	9.44E-07	
55	-6.28E-06	-2.53E-05	-0.010000
5.24E-05	-0.000384	-3.49E-07	
56	-6.18E-06	-2.63E-05	-0.008282
5.00E-05	-0.000377	-7.70E-08	
57	-6.34E-06	-2.55E-05	-0.006438
4.66E-05	-0.000359	3.84E-07	
58	-6.68E-06	-2.28E-05	-0.004714
4.22E-05	-0.000329	6.47E-07	
59	-7.12E-06	-1.92E-05	-0.003169
3.63E-05	-0.000287	7.62E-07	
60	-7.67E-06	-1.53E-05	-0.001864
2.90E-05	-0.000233	8.20E-07	
61	-8.03E-06	-1.11E-05	-0.000857
2.06E-05	-0.000169	8.65E-07	
62	-8.48E-06	-6.74E-06	-0.000190
1.15E-05	-9.63E-05	8.94E-07	
63	-8.91E-06	-2.38E-06	9.69E-05
2.69E-06	-1.87E-05	8.48E-07	
64	-9.25E-06	1.26E-06	-6.05E-08
-4.68E-06	5.75E-05	5.67E-07	
65	-9.40E-06	2.76E-06	-0.000291
-9.42E-06	0.000110	3.37E-07	
66	-9.54E-06	4.01E-06	-0.001014
-1.44E-05	0.000179	1.97E-07	
67	-9.64E-06	4.76E-06	-0.002052
-1.74E-05	0.000235	1.23E-07	
68	-9.71E-06	5.16E-06	-0.003321
-1.88E-05	0.000274	5.19E-08	
69	-9.76E-06	5.18E-06	-0.004736
-1.87E-05	0.000292	-2.44E-08	
70	-9.79E-06	4.83E-06	-0.006176
-1.70E-05	0.000284	-9.86E-08	
71	-9.80E-06	4.12E-06	-0.007516
-1.40E-05	0.000251	-1.69E-07	
72	-9.80E-06	3.08E-06	-0.008639
-1.01E-05	0.000199	-2.35E-07	
73	-9.79E-06	1.75E-06	-0.009469
-5.84E-06	0.000132	-2.87E-07	
74	-9.78E-06	3.36E-07	-0.009926
-1.81E-06	5.09E-05	-2.54E-07	
75	-9.79E-06	-3.07E-07	-0.010000
2.57E-07	-8.16E-06	-8.16E-08	
76	-9.78E-06	-2.28E-07	-0.009869
2.11E-06	-6.71E-05	9.36E-08	
77	-9.78E-07	4.17E-07	-0.009335
3.31E-06	-0.000147	1.38E-07	
78	-9.78E-06	1.06E-06	-0.008434
3.31E-06	-0.000213	1.07E-07	
79	-9.77E-06	1.53E-06	-0.007249
2.64E-06	-0.000264	7.01E-08	
80	-9.77E-06	1.84E-06	-0.005855
1.57E-06	-0.000294	3.97E-08	
81	-9.74E-06	2.01E-06	-0.004380
3.15E-07	-0.000296	1.27E-08	
82	-9.72E-06	2.06E-06	-0.002966
-9.52E-07	-0.000269	-1.07E-08	
83	-9.70E-06	2.00E-06	-0.001743
-1.98E-06	-0.000222	-2.63E-08	
84	-9.69E-06	1.85E-06	-0.000788
-2.46E-06	-0.000159	-4.41E-08	
85	-9.68E-06	1.48E-06	-0.000186
-1.89E-06	-8.21E-05	-1.35E-07	
86	-9.69E-06	7.11E-07	-7.70E-08
-5.34E-07	-2.49E-05	-3.41E-07	
87	-9.71E-06	-8.75E-07	-1.40E-05
9.99E-07	3.29E-05	-5.38E-07	
88	-9.77E-06	-3.75E-06	-0.000377
4.44E-06	0.000113	-5.90E-07	
89	-9.83E-06	-6.59E-06	-0.001112
8.31E-06	0.000180	-5.38E-07	
90	-9.90E-06	-9.09E-06	-0.002150
1.21E-05	0.000237	-4.53E-07	
91	-9.95E-06	-1.11E-05	-0.003434
1.54E-05	0.000276	-3.48E-07	
92	-9.99E-06	-1.26E-05	-0.004852
1.75E-05	0.000291	-2.23E-07	
93	-9.99E-06	-1.34E-05	-0.006279
1.82E-05	0.000280	-7.28E-08	
94	-9.96E-06	-1.33E-05	-0.007596
1.77E-05	0.000248	1.12E-07	
95	-9.86E-06	-1.23E-05	-0.008723
1.58E-05	0.000202	3.43E-07	
96	-9.66E-06	-9.96E-06	-0.009583
1.22E-05	0.000142	6.07E-07	
97	-9.47E-06	-7.57E-06	-0.010000
8.66E-06	9.67E-05	7.64E-07	
98	-9.11E-06	-3.36E-06	-0.010314
1.85E-06	2.93E-05	9.50E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
99	-8.65E-06	1.76E-06	-0.010287
-6.30E-06	-4.05E-05	1.11E-06	
100	-8.11E-06	7.46E-06	-0.009913
-1.47E-05	-0.000108	1.18E-06	
101	-7.52E-06	1.33E-05	-0.009220
-2.26E-05	-0.000169	1.16E-06	
102	-6.94E-06	1.88E-05	-0.008238
-2.96E-05	-0.000223	1.08E-06	
103	-6.37E-06	2.39E-05	-0.007009
-3.53E-05	-0.000267	9.56E-07	
104	-5.85E-06	2.83E-05	-0.005579
-3.98E-05	-0.000303	8.03E-07	
105	-5.41E-06	3.17E-05	-0.003996
-4.31E-05	-0.000329	5.84E-07	
106	-5.11E-06	3.39E-05	-0.002302
-4.55E-05	-0.000347	2.35E-07	
107	-5.05E-06	3.40E-05	-0.000537
-4.71E-05	-0.000357	-2.21E-07	
108	-5.08E-06	3.36E-05	-1.65E-08
-4.76E-05	-0.000358	-3.00E-07	
109	-3.03E-06	-2.51E-05	-0.010000
4.67E-05	-0.000384	9.18E-08	
110	-3.15E-06	-2.45E-05	-0.008294
4.66E-05	-0.000378	1.90E-07	
111	-3.43E-06	-2.30E-05	-0.006461
4.50E-05	-0.000359	4.06E-07	
112	-3.88E-06	-2.05E-05	-0.004744
4.18E-05	-0.000330	6.18E-07	
113	-4.46E-06	-1.71E-05	-0.003203
3.69E-05	-0.000289	7.59E-07	
114	-5.13E-06	-1.32E-05	-0.001898
3.04E-05	-0.000235	8.21E-07	
115	-5.82E-06	-9.15E-06	-0.000886
2.28E-05	-0.000171	8.22E-07	
116	-6.49E-06	-5.23E-06	-0.000210
1.44E-05	-0.000108	7.73E-07	
117	-7.11E-06	-1.71E-06	8.80E-05
5.88E-06	-2.08E-05	6.62E-07	
118	-7.62E-06	1.13E-06	-6.92E-08
-1.83E-06	5.69E-05	5.02E-07	
119	-7.93E-06	2.63E-06	-0.000289
-6.39E-06	0.000110	3.76E-07	
120	-8.31E-06	4.03E-06	-0.001011
-1.17E-05	0.000181	2.14E-07	
121	-8.61E-06	4.73E-06	-0.002048
-1.53E-05	0.000236	9.35E-08	
122	-8.87E-06	4.92E-06	-0.003315
-1.75E-05	0.000275	1.72E-09	
123	-9.07E-06	4.70E-06	-0.004727
-1.82E-05	0.000293	-7.38E-08	
124	-9.20E-06	4.14E-06	-0.006164
-1.74E-05	0.000285	-1.38E-07	
125	-9.28E-06	3.30E-06	-0.007502
-1.51E-05	0.000253	-1.89E-07	
126	-9.31E-06	2.27E-06	-0.008627
-1.20E-05	0.000201	-2.17E-07	
127	-9.31E-06	1.19E-06	-0.009461
-8.39E-06	0.000134	-2.04E-07	
128	-9.30E-06	3.17E-07	-0.009923
-4.60E-06	5.22E-05	-1.38E-07	
129	-9.30E-06	-3.72E-08	-0.010000
-2.37E-06	-7.82E-06	-6.53E-08	
130	-9.09E-06	-1.25E-07	-0.009869
-7.59E-07	-6.79E-05	8.94E-09	
131	-8.80E-06	1.39E-07	-0.009332
6.41E-07	-0.000149	8.27E-08	
132	-8.51E-06	6.48E-07	-0.008430
1.25E-06	-0.000214	1.08E-07	
133	-8.23E-06	1.20E-06	-0.007245
1.37E-06	-0.000265	1.02E-07	
134	-7.97E-06	1.68E-06	-0.005852
1.11E-06	-0.000295	8.09E-08	
135	-7.75E-06	2.04E-06	-0.004381
6.53E-07	-0.000297	5.48E-08	
136	-7.58E-06	2.26E-06	-0.002969
1.90E-07	-0.000271	2.30E-08	
137	-7.45E-06	2.29E-06	-0.001746
-5.51E-08	-0.000224	-2.25E-08	
138	-7.37E-06	2.03E-06	-0.000790
7.39E-08	-0.000161	-9.81E-08	
139	-7.33E-06	1.28E-06	-0.000186
8.55E-07	-8.30E-05	-2.18E-07	
140	-7.31E-06	3.51E-07	-8.52E-08
2.01E-06	-2.47E-05	-3.19E-07	
141	-7.31E-06	-9.17E-07	-1.68E-05
3.78E-06	3.41E-05	-4.13E-07	
142	-7.32E-06	-3.20E-06	-0.000386
7.01E-06	0.000115	-4.97E-07	
143	-7.33E-06	-5.73E-06	-0.001127
1.03E-05	0.000182	-5.11E-07	
144	-7.32E-06	-8.18E-06	-0.002167
1.33E-05	0.000238	-4.66E-07	
145	-7.25E-06	-1.03E-05	-0.003450
1.57E-05	0.000278	-3.80E-07	
146	-7.12E-06	-1.19E-05	-0.004866
1.69E-05	0.000292	-2.57E-07	
147	-6.92E-06	-1.29E-05	-0.006290
1.67E-05	0.000281	-9.81E-08	
148	-6.64E-06	-1.29E-05	-0.007605
1.51E-05	0.000250	9.43E-08	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
149	-6.29E-06	-1.20E-05	-0.008731
1.21E-05	0.000203	3.08E-07	
150	-5.84E-06	-9.09E-06	-0.009588
7.67E-06	0.000143	5.22E-07	
151	-5.48E-06	-7.95E-06	-0.010000
3.74E-06	9.60E-05	6.55E-07	
152	-4.88E-06	-4.35E-06	-0.010304
-2.71E-06	2.73E-05	8.20E-07	
153	-4.16E-06	-1.23E-09	-0.010263
-1.00E-05	-0.000110	1.06E-06	
154	-3.36E-06	4.94E-06	-0.009878
-1.75E-05	-0.000110	1.06E-06	
155	-2.50E-06	1.02E-05	-0.009177
-2.45E-05	-0.000171	1.10E-06	
156	-1.63E-06	1.56E-05	-0.008192
-3.08E-05	-0.000224	1.08E-06	
157	-7.97E-07	2.07E-05	-0.006964
-3.60E-05	-0.000268	9.99E-07	
158	-3.45E-08	2.52E-05	-0.005540
-3.99E-05	-0.000303	8.50E-07	
159	6.03E-07	2.89E-05	-0.003966
-4.26E-05	-0.000329	6.32E-07	
160	1.08E-06	3.14E-05	-0.002284
-4.41E-05	-0.000347	3.71E-07	
161	1.36E-06	3.26E-05	-0.000532
-4.44E-05	-0.000357	1.43E-07	
162	1.41E-06	3.28E-05	-1.35E-08
-4.43E-05	-0.000357	1.10E-07	
163	-7.71E-06	-3.38E-05	-0.009991
4.98E-05	-0.000383	4.71E-05	
164	-8.20E-06	-3.04E-05	-0.008272
4.78E-05	-0.000377	-3.75E-05	
165	-8.75E-06	-2.69E-05	-0.006426
4.50E-05	-0.000358	-3.70E-05	
166	-9.22E-06	-2.35E-05	-0.004700
4.11E-05	-0.000329	-3.38E-05	
167	-9.63E-06	-2.02E-05	-0.003153
3.57E-05	-0.000286	-2.95E-05	
168	-9.99E-06	-1.62E-05	-0.001849
2.86E-05	-0.000232	-2.38E-05	
169	-1.03E-05	-1.20E-05	-0.000845
2.03E-05	-0.000168	-1.71E-05	
170	-1.06E-05	-7.70E-06	-0.000183
1.09E-05	-8.22E-05	-1.44E-06	
171	-1.08E-05	-3.55E-06	9.84E-05
1.51E-06	-1.78E-05	-1.21E-06	
172	-1.10E-05	-6.84E-08	-2.46E-06
-6.61E-06	5.78E-05	6.43E-06	
173	-1.10E-05	1.87E-06	-0.000296
-1.07E-05	0.000110	1.15E-05	
174	-1.10E-05	3.74E-06	-0.001019
-1.50E-05	0.000179	1.99E-05	
175	-1.09E-05	4.86E-06	-0.002056
-1.74E-05	0.000234	2.57E-05	
176	-1.08E-05	5.38E-06	-0.003326
-1.86E-05	0.000273	2.98E-05	
177	-1.07E-05	5.43E-06	-0.004741
-1.86E-05	0.000291	3.16E-05	
178	-1.06E-05	5.09E-06	-0.006181
-1.70E-05	0.000283	3.08E-05	
179	-1.05E-05	4.37E-06	-0.007521
-1.40E-05	0.000250	2.72E-05	
180	-1.04E-05	3.36E-06	-0.008643
-9.95E-06	0.000198	2.16E-05	
181	-1.04E-05	2.25E-06	-0.009471
-5.25E-06	0.000131	1.44E-05	
182	-1.04E-05	1.26E-06	-0.009924
-6.95E-07	5.05E-05	5.24E-06	
183	-1.04E-05	8.37E-07	-0.009998
1.92E-06	-8.35E-06	-5.82E-07	
184	-1.05E-05	6.27E-07	-0.009866
3.43E-06	-6.69E-05	-6.35E-06	
185	-1.06E-05	7.57E-07	-0.009333
4.04E-06	-0.000146	-1.54E-05	
186	-1.07E-05	1.12E-06	-0.008434
3.48E-06	-0.000212	-2.22E-05	
187	-1.08E-05	1.53E-06	-0.007250
2.58E-06	-0.000262	-2.75E-05	
188	-1.09E-05	1.85E-06	-0.005855
1.53E-06	-0.000293	-3.07E-05	
189	-1.10E-05	2.05E-06	-0.004380
3.35E-07	-0.000295	-3.08E-05	
190	-1.11E-05	2.10E-06	-0.002966
-8.96E-07	0.000268	-2.78E-05	
191	-1.12E-05	1.96E-06	-0.001743
-2.11E-06	-0.000221	-2.27E-05	
192	-1.12E-05	1.55E-06	-0.000790
-3.10E-06	-0.000159	-1.60E-05	
193	-1.13E-05	6.55E-07	-0.000189
-3.11E-06	-8.19E-05	-1.08E-06	
194	-1.13E-05	-4.08E-07	-2.29E-06
-2.23E-06	-2.50E-05	-1.32E-06	
195	-1.13E-05	-1.78E-06	-1.53E-05
-1.97E-07	3.24E-05	4.32E-06	
196	-1.14E-05	-4.24E-06	-0.000376
3.74E-06	0.000112	-1.33E-05	
197	-1.15E-05	-6.89E-06	-0.001108
8.10E-06	0.000179	2.05E-05	
198	-1.17E-05	-9.38E-06	-0.002143
1.21E-05	0.000235	2.65E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
199	-1.19E-05	-1.14E-05	-0.003425
1.53E-05	0.000275	3.08E-05	
200	-1.20E-05	-1.29E-05	-0.004844
1.72E-05	0.000290	3.23E-05	
201	-1.22E-05	-1.37E-05	-0.006271
1.78E-05	0.000279	3.11E-05	
202	-1.24E-05	-1.37E-05	-0.007588
1.72E-05	0.000248	2.78E-05	
203	-1.25E-05	-1.28E-05	-0.008716
1.57E-05	0.000201	2.29E-05	
204	-1.25E-05	-1.08E-05	-0.009576
1.26E-05	0.000142	1.52E-05	
205	-1.24E-05	-8.44E-06	-0.009994
9.36E-06	9.71E-05	1.07E-05	
206	-1.22E-05	-3.60E-06	-0.010315
2.19E-06	3.07E-05	4.29E-06	
207	-1.19E-05	2.34E-06	-0.010295
-6.38E-06	-3.89E-05	-3.19E-06	
208	-1.15E-05	8.65E-06	-0.009928
-1.50E-05	-0.000106	-1.03E-05	
209	-1.11E-05	1.48E-05	-0.009240
-2.29E-05	-0.000167	-1.66E-05	
210	-1.07E-05	2.05E-05	-0.008260
-2.97E-05	-0.000222	-2.22E-05	
211	-1.03E-05	2.54E-05	-0.007030
-3.53E-05	-0.000267	-2.68E-05	
212	-9.91E-06	2.96E-05	-0.005598
-3.95E-05	-0.000303	-3.03E-05	
213	-9.54E-06	3.30E-05	-0.004011
-4.24E-05	-0.000329	-3.29E-05	
214	-9.17E-06	3.58E-05	-0.002313
-4.44E-05	-0.000347	-3.54E-05	
215	-8.79E-06	3.85E-05	-0.000542
-4.56E-05	-0.000357	-2.44E-05	
216	-8.83E-06	3.81E-05	-5.31E-06
-4.57E-05	-0.000357	-3.00E-05	
217	-5.19E-06	-2.48E-05	-0.010006
4.73E-05	-0.000385	-4.75E-05	
218	-5.12E-06	-2.53E-05	-0.008291
4.79E-05	-0.000378	-3.80E-05	
219	-5.27E-06	-2.42E-05	-0.006451
4.59E-05	-0.000359	-3.77E-05	
220	-5.61E-06	-2.17E-05	-0.004730
4.20E-05	-0.000330	-3.47E-05	
221	-6.06E-06	-1.82E-05	-0.003186
3.64E-05	-0.000288	-3.05E-05	
222	-6.56E-06	-1.44E-05	-0.001880
2.92E-05	-0.000234	-2.48E-05	
223	-7.06E-06	-1.03E-05	-0.000869
2.07E-05	-0.000170	-1.81E-05	
224	-7.55E-06	-6.17E-06	-0.000197
1.12E-05	-9.78E-05	-1.04E-05	
225	-8.01E-06	-2.25E-06	9.57E-05
1.47E-06	-2.00E-05	-2.13E-06	
226	-8.40E-06	9.97E-07	2.91E-06
-7.00E-06	5.68E-05	5.76E-06	
227	-8.68E-06	2.50E-06	-0.000287
-1.09E-05	0.000110	1.16E-05	
228	-8.81E-06	3.84E-06	-0.001009
-1.50E-05	0.000180	1.94E-05	
229	-8.97E-06	4.62E-06	-0.002048
-1.75E-05	0.000236	2.53E-05	
230	-9.09E-06	4.96E-06	-0.003317
-1.87E-05	0.000274	4.23E-05	
231	-9.18E-06	4.91E-06	-0.004730
-1.86E-05	0.000292	3.13E-05	
232	-9.24E-06	4.51E-06	-0.006170
-1.71E-05	0.000285	3.05E-05	
233	-9.27E-06	3.80E-06	-0.007510
-1.41E-05	0.000252	2.71E-05	
234	-9.28E-06	2.81E-06	-0.008635
-9.98E-06	0.000200	2.16E-05	
235	-9.27E-06	1.66E-06	-0.009468
-5.27E-06	0.000133	1.45E-05	
236	-9.25E-06	5.21E-07	-0.009927
-4.53E-07	5.16E-05	5.31E-06	
237	-9.22E-06	2.42E-08	-0.010003
2.38E-06	-7.21E-05	1.53E-06	
238	-9.20E-06	2.37E-08	-0.009872
3.57E-06	-6.74E-05	-6.46E-06	
239	-9.15E-06	4.67E-07	-0.009336
3.99E-06	-0.000148	-1.55E-05	
240	-9.10E-06	9.95E-07	-0.008434
3.48E-06	-0.000214	-2.23E-05	
241	-9.03E-06	1.45E-06	-0.007248
2.55E-06	-0.000264	-2.76E-05	
242	-8.94E-06	1.79E-06	-0.005854
1.52E-06	-0.000295	-3.08E-05	
243	-8.86E-06	1.99E-06	-0.004380
3.39E-07	-0.000297	-3.09E-05	
244	-8.77E-06	2.07E-06	-0.002966
-8.85E-07	-0.000270	-2.80E-05	
245	-8.68E-06	2.01E-06	-0.001742
-2.13E-06	-0.000223	-2.29E-05	
246	-8.59E-06	1.77E-06	-0.000787
-3.11E-06	-0.000160	-1.63E-05	
247	-8.52E-06	1.19E-06	-0.000183
-3.34E-06	-8.22E-05	-7.23E-06	
248	-8.48E-06	3.50E-07	2.63E-06
-2.71E-06	-2.47E-05	-1.47E-06	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
249	-8.46E-06	-1.08E-06	-1.24E-05
-3.95E-07	3.35E-05	4.23E-06	
250	-8.45E-06	-3.65E-06	-0.000379
3.83E-06	0.000114	1.33E-05	
251	-8.44E-06	-6.29E-06	-0.001118
8.17E-06	0.000182	2.04E-05	
252	-8.43E-06	-8.72E-06	-0.002157
1.22E-05	0.000237	2.63E-05	
253	-8.41E-06	-1.08E-05	-0.003441
1.54E-05	0.000277	3.05E-05	
254	-8.37E-06	-1.22E-05	-0.004860
1.74E-05	0.000291	3.20E-05	
255	-8.28E-06	-1.30E-05	-0.006286
1.80E-05	0.000280	3.07E-05	
256	-8.15E-06	-1.30E-05	-0.007603
1.74E-05	0.000249	2.73E-05	
257	-7.94E-06	-1.19E-05	-0.008731
1.57E-05	0.000203	2.24E-05	
258	-7.65E-06	-9.68E-06	-0.009590
1.23E-05	0.000142	1.47E-05	
259	-7.39E-06	-7.43E-06	-0.010005
8.79E-06	9.61E-05	1.02E-05	
260	-6.95E-06	-3.57E-06	-0.010314
1.81E-06	2.79E-05	3.62E-06	
261	-6.42E-06	1.12E-06	-0.010278
-6.61E-06	-4.21E-05	-3.93E-06	
262	-5.81E-06	6.39E-06	-0.009898
-1.51E-05	-0.000109	-1.10E-05	
263	-5.16E-06	1.19E-05	-0.009201
-2.30E-05	-0.000170	-1.74E-05	
264	-4.50E-06	1.73E-05	-0.008216
-2.99E-05	-0.000224	-2.30E-05	
265	-3.87E-06	2.23E-05	-0.006987
-3.55E-05	-0.000268	-2.76E-05	
266	-3.28E-06	2.68E-05	-0.005560
-3.99E-05	-0.000303	-3.11E-05	
267	-2.80E-06	3.03E-05	-0.003980
-4.29E-05	-0.000329	-3.36E-05	
268	-2.47E-06	3.26E-05	-0.002292
-4.48E-05	-0.000347	-3.61E-05	
269	-2.32E-06	3.36E-05	-0.000531
-4.50E-05	-0.000357	-2.49E-05	
270	-2.45E-06	3.26E-05	3.19E-06
-4.43E-05	-0.000358	-3.16E-05	
271	0.000411	1.98E-22	-0.010000
3.76E-05	-0.000385	1.76E-06	
272	-8.32E-05	4.09E-22	.000000
7.76E-07	5.86E-05	6.62E-07	
273	.000000	.000000	-0.010000
-2.12E-06	-8.64E-06	-9.95E-08	
274	1.74E-05	-3.00E-24	.000000
1.42E-06	-2.52E-05	-3.61E-07	
275	-0.000133	-3.11E-22	-0.010000
6.78E-06	9.80E-05	8.51E-07	
276	0.000380	-1.43E-23	.000000
-3.91E-05	-0.000359	9.44E-07	
277	0.000417	2.09E-21	.000000
2.25E-05	-0.000387	-3.49E-07	
278	-7.84E-05	-5.71E-23	.000000
-1.47E-06	5.77E-05	5.67E-07	
279	.000000	.000000	-0.010000
1.34E-08	-8.16E-06	-8.16E-08	
280	2.01E-05	-4.72E-24	.000000
-6.21E-07	-2.48E-05	-3.41E-07	
281	-0.000126	1.12E-23	-0.010000
6.49E-06	9.68E-05	7.64E-07	
282	0.000389	7.78E-23	.000000
-3.03E-05	-0.000360	-3.00E-07	
283	0.000419	-3.25E-05	-0.010000
-7.37E-06	-0.000387	9.18E-08	
284	-7.50E-05	1.11E-05	.000000
7.86E-06	5.64E-05	5.02E-07	
285	7.75E-25	-2.88E-06	-0.010000
-2.60E-06	-7.75E-06	-6.53E-08	
286	2.18E-05	5.22E-06	.000000
4.74E-06	-2.43E-05	-3.19E-07	
287	-0.000120	-1.31E-05	-0.010000
-3.95E-06	9.60E-05	8.55E-07	
288	0.000394	1.83E-05	.000000
-1.31E-05	-0.000360	1.10E-07	

LOAD -2N+2- ----------

JOINT	U1	U2	U3
R1	R2	R3	
1	1.16E-05	4.16E-05	-1.90E-08
-4.38E-05	0.000384	-1.76E-06	
2	1.23E-05	3

41	1.50E-05	1.29E-05	-0.001284
-1.18E-05	-0.000202	-2.49E-07	
42	1.52E-05	1.10E-05	-0.000421
-7.35E-06	-0.000143	-5.21E-07	
43	1.53E-05	8.68E-06	-4.34E-08
-3.36E-06	-9.81E-05	-8.51E-07	
44	1.53E-05	3.27E-06	0.000326
2.63E-06	-3.21E-05	-1.25E-06	
45	1.52E-05	-3.37E-06	0.000311
9.77E-06	3.74E-05	-1.37E-06	
46	1.50E-05	-1.02E-05	-5.11E-05
1.72E-05	1.34E-05	-1.34E-06	
47	1.49E-05	-1.66E-05	-0.000736
2.42E-05	0.000167	-1.22E-06	
48	1.48E-05	-2.23E-05	-0.001716
3.04E-05	0.000221	-1.05E-06	
49	1.47E-05	-2.71E-05	-0.002948
3.55E-05	0.000267	-8.56E-07	
50	1.47E-05	-3.10E-05	-0.004384
3.94E-05	0.000303	-6.92E-07	
51	1.46E-05	-3.42E-05	-0.005977
4.19E-05	0.000329	-6.29E-07	
52	1.45E-05	-3.76E-05	-0.007682
4.33E-05	0.000348	-7.39E-07	
53	1.42E-05	-4.18E-05	-0.009460
4.32E-05	0.000358	-9.24E-07	
54	1.41E-05	-4.32E-05	-0.010000
4.27E-05	0.000359	-9.44E-07	
55	6.28E-06	2.53E-05	-2.18E-08
-5.24E-05	0.000384	3.49E-07	
56	6.18E-06	2.63E-05	-0.001718
-5.00E-05	0.000377	7.70E-08	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 45

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
57	6.34E-06	2.55E-05	-0.003562
-4.66E-05	0.000359	-3.84E-07	
58	6.68E-06	2.28E-05	-0.005286
-4.22E-05	0.000329	-6.47E-07	
59	7.12E-06	1.92E-05	-0.006831
-3.63E-05	0.000287	-7.62E-07	
60	7.57E-06	1.53E-05	-0.008136
-2.90E-05	0.000233	-8.20E-07	
61	8.03E-06	1.11E-05	-0.009143
-2.06E-05	0.000169	-8.65E-07	
62	8.48E-06	6.74E-06	-0.009810
-1.15E-05	9.63E-05	-8.94E-07	
63	8.91E-06	2.38E-06	-0.010097
-2.69E-06	3.87E-05	-9.48E-07	
64	9.25E-06	-1.26E-06	-0.010000
4.68E-06	-5.75E-05	-5.67E-07	
65	9.40E-06	-2.76E-06	-0.009709
9.42E-06	-0.000110	-3.37E-07	
66	9.54E-06	-4.01E-06	-0.008986
1.44E-05	-0.000179	-1.97E-07	
67	9.64E-06	-4.76E-06	-0.007948
1.74E-05	-0.000235	-1.23E-07	
68	9.71E-06	-5.16E-06	-0.006679
1.88E-05	-0.000274	-5.19E-08	
69	9.76E-06	-5.18E-06	-0.005264
1.87E-05	-0.000292	2.44E-08	
70	9.79E-06	-4.83E-06	-0.003824
1.70E-05	-0.000284	9.86E-08	
71	9.80E-06	-4.12E-06	-0.002484
1.40E-05	-0.000251	1.69E-07	
72	9.80E-06	-3.08E-06	-0.001361
1.01E-05	-0.000199	2.35E-07	
73	9.79E-06	-1.75E-06	-0.000531
5.84E-06	-0.000132	2.87E-07	
74	9.78E-06	-3.36E-07	-7.45E-05
1.81E-06	-5.09E-05	2.54E-07	
75	9.79E-06	3.07E-07	-7.99E-08
-2.57E-07	8.16E-06	8.16E-08	
76	9.78E-06	2.28E-07	-0.000131
-2.11E-06	6.71E-05	-9.36E-08	
77	9.78E-06	-4.17E-07	-0.000665
-3.31E-06	0.000147	-1.38E-07	
78	9.78E-06	-1.06E-06	-0.001566
-3.31E-06	0.000213	-1.07E-07	
79	9.77E-06	-1.53E-06	-0.002751
-2.64E-06	0.000264	-7.01E-08	
80	9.75E-06	-1.84E-06	-0.004145
-1.57E-06	0.000294	-3.97E-08	
81	9.74E-06	-2.01E-06	-0.005620
-3.15E-07	0.000296	-1.27E-08	
82	9.72E-06	-2.06E-06	-0.007034
9.52E-07	0.000269	1.07E-08	
83	9.70E-06	-2.00E-06	-0.008257
1.98E-06	0.000222	2.48E-08	
84	9.69E-06	-1.85E-06	-0.009212
2.46E-06	0.000159	4.41E-08	
85	9.68E-06	-1.48E-06	-0.009814
1.89E-06	8.21E-05	1.35E-07	
86	9.69E-06	-7.11E-07	-0.010000
5.34E-07	2.49E-05	3.41E-07	
87	9.71E-06	8.75E-07	-0.009986
-9.99E-07	-3.29E-05	5.38E-07	
88	9.77E-06	3.75E-06	-0.009623
-4.44E-06	-0.000113	5.90E-07	
89	9.83E-06	6.59E-06	-0.008888
-8.31E-06	-0.000180	5.38E-07	
90	9.90E-06	9.09E-06	-0.007850
-1.21E-05	-0.000237	4.53E-07	
91	9.95E-06	1.11E-05	-0.006566
-1.54E-05	-0.000276	3.48E-07	
92	9.99E-06	1.26E-05	-0.005148
-1.75E-05	-0.000291	2.23E-07	
93	9.99E-06	1.34E-05	-0.003721
-1.82E-05	-0.000280	7.28E-08	
94	9.98E-06	1.33E-05	-0.002404
-1.77E-05	-0.000248	-1.12E-07	
95	9.86E-06	1.23E-05	-0.001277
-1.58E-05	-0.000202	-3.43E-07	
96	9.66E-06	9.96E-06	-0.000417
-1.22E-05	-0.000142	-6.07E-07	
97	9.40E-06	7.57E-06	-5.38E-08
-8.66E-06	-9.67E-05	-7.64E-07	
98	9.11E-06	3.36E-06	0.000314
-1.85E-06	-2.93E-05	-9.50E-07	
99	8.65E-06	-1.76E-06	0.000287
6.30E-06	4.05E-05	-1.11E-06	
100	8.11E-06	-7.46E-06	-8.71E-05
1.47E-05	0.000108	-1.18E-06	
101	7.52E-06	-1.33E-05	-0.000780
2.26E-05	0.000169	-1.16E-06	
102	6.94E-06	-1.88E-05	-0.001762
2.96E-05	0.000223	-1.08E-06	
103	6.37E-06	-2.39E-05	-0.002991
3.53E-05	0.000267	-9.56E-07	
104	5.85E-06	-2.81E-05	-0.004421
3.98E-05	0.000303	-8.03E-07	
105	5.41E-06	-3.17E-05	-0.006004
4.31E-05	0.000329	-5.84E-07	
106	5.11E-06	-3.39E-05	-0.007698
4.55E-05	0.000347	-2.35E-07	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 46

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
107	5.05E-06	-3.40E-05	-0.009463
4.71E-05	0.000357	-2.21E-07	
108	5.08E-06	-3.36E-05	-0.010000
4.76E-05	0.000358	3.00E-07	
109	3.03E-06	2.51E-05	-1.82E-08
-4.67E-05	0.000384	-9.18E-08	
110	3.15E-06	2.45E-05	-0.001706
-4.66E-05	0.000378	-1.90E-07	
111	3.43E-06	2.30E-05	-0.003539
-4.50E-05	0.000359	-4.06E-07	
112	3.88E-06	2.05E-05	-0.005256
-4.18E-05	0.000330	-6.18E-07	
113	4.46E-06	1.71E-05	-0.006797
-3.69E-05	0.000289	-7.59E-07	
114	5.13E-06	1.32E-05	-0.008102
-3.04E-05	0.000235	-8.21E-07	
115	5.82E-06	9.15E-06	-0.009114
-2.28E-05	0.000171	-8.22E-07	
116	6.49E-06	5.23E-06	-0.009790
-1.44E-05	9.85E-05	-7.71E-07	
117	7.11E-06	1.71E-06	-0.010088
-5.88E-06	2.08E-05	-6.62E-07	
118	7.62E-06	-1.13E-06	-0.010000
1.83E-06	-5.69E-05	-5.02E-07	
119	7.93E-06	-2.63E-06	-0.009711
6.39E-06	-0.000110	-3.76E-07	
120	8.31E-06	-4.03E-06	-0.008989
1.17E-05	-0.000181	-2.14E-07	
121	8.61E-06	-4.73E-06	-0.007952
1.53E-05	-0.000236	-9.35E-08	
122	8.87E-06	-4.92E-06	-0.006685
1.75E-05	-0.000275	-1.72E-09	
123	9.07E-06	-4.70E-06	-0.005273
1.82E-05	-0.000293	-7.38E-08	
124	9.20E-06	-4.14E-06	-0.003836
1.74E-05	-0.000285	1.38E-07	
125	9.28E-06	-3.30E-06	-0.002498
1.51E-05	-0.000253	1.89E-07	
126	9.31E-06	-2.27E-06	-0.001373
1.20E-05	-0.000201	2.17E-07	
127	9.31E-06	-1.19E-06	-0.000539
8.39E-06	-0.000134	2.04E-07	
128	9.30E-06	-3.17E-07	-7.72E-05
4.60E-06	-5.22E-05	1.38E-07	
129	9.30E-06	3.72E-08	-8.81E-08
2.37E-06	7.62E-06	6.53E-08	
130	9.09E-06	-1.25E-06	-0.000131
7.59E-07	6.79E-05	-8.94E-09	
131	8.80E-06	-1.39E-07	-0.000668
-6.41E-07	0.000149	-8.27E-08	
132	8.51E-06	-6.48E-07	-0.001570
-1.25E-06	0.000214	-1.08E-07	
133	8.23E-06	-1.20E-06	-0.002755
-1.37E-06	0.000265	-1.02E-07	
134	7.97E-06	-1.68E-06	-0.004148
-1.11E-06	0.000295	-8.09E-08	
135	7.75E-06	-2.04E-06	-0.005619
-6.53E-07	0.000297	-5.48E-08	
136	7.58E-06	-2.26E-06	-0.007031
-1.90E-07	0.000271	-2.30E-08	
137	7.45E-06	-2.29E-06	-0.008254
5.51E-08	0.000224	2.25E-08	
138	7.37E-06	-2.03E-06	-0.009210
-7.39E-08	0.000161	9.81E-08	
139	7.33E-06	-1.28E-06	-0.009814
-8.55E-07	8.30E-05	2.18E-07	
140	7.31E-06	-3.52E-07	-0.010000
-2.01E-06	2.47E-05	3.19E-07	
141	7.31E-06	9.17E-07	-0.009983
-3.78E-06	-3.41E-05	4.13E-07	
142	7.32E-06	3.20E-06	-0.009614
-7.01E-06	-0.000115	4.97E-07	
143	7.33E-06	5.73E-06	-0.008873
-1.03E-05	-0.000182	5.11E-07	
144	7.32E-06	8.18E-06	-0.007833
-1.33E-05	-0.000238	4.66E-07	
145	7.25E-06	1.03E-05	-0.006550
-1.57E-05	-0.000278	3.80E-07	
146	7.12E-06	1.19E-05	-0.005134
-1.69E-05	-0.000292	2.57E-07	
147	6.92E-06	1.29E-05	-0.003710
-1.67E-05	-0.000281	9.81E-08	
148	6.64E-06	1.29E-05	-0.002395
-1.51E-05	-0.000250	-9.43E-08	
149	6.29E-06	1.20E-05	-0.001269
-1.21E-05	-0.000203	-3.08E-07	
150	5.84E-06	9.96E-06	-0.000412
-7.67E-06	-0.000143	-5.11E-07	
151	5.48E-06	7.95E-06	-5.97E-08
-3.74E-06	-9.60E-05	-6.55E-07	
152	4.88E-06	4.35E-06	0.000304
2.71E-06	-2.73E-05	-8.20E-07	
153	4.16E-06	1.23E-09	0.000263
1.00E-05	4.31E-05	-9.59E-07	
154	3.36E-06	-4.94E-06	-0.000122
1.75E-05	0.000110	-1.06E-06	
155	2.50E-06	-1.02E-05	-0.000823
2.45E-05	0.000171	-1.10E-06	
156	1.63E-06	-1.56E-05	-0.001808
3.08E-05	0.000224	-1.08E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 47

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
157	7.97E-07	-2.07E-05	-0.003036
3.60E-05	0.000268	-9.99E-07	
158	3.45E-08	-2.52E-05	-0.004460
3.99E-05	0.000303	-8.50E-07	
159	-6.03E-07	-2.89E-05	-0.006034
4.26E-05	0.000329	-6.32E-07	
160	-1.08E-06	-3.14E-05	-0.007716
4.41E-05	0.000347	-3.72E-07	
161	-1.36E-06	-3.26E-05	-0.009468
4.44E-05	0.000357	-1.43E-07	
162	-1.41E-06	-3.28E-05	-0.010000
4.43E-05	0.000357	-1.10E-07	
163	7.71E-06	3.38E-05	-9.48E-06
-4.98E-05	0.000383	4.71E-05	
164	8.20E-06	3.04E-05	-0.001728
-4.78E-05	0.000377	3.75E-05	
165	8.75E-06	2.69E-05	-0.003574
-4.50E-05	0.000358	3.70E-05	
166	9.22E-06	2.35E-05	-0.005300
-4.11E-05	0.000329	3.38E-05	
167	9.63E-06	2.01E-05	-0.006847
-3.57E-05	0.000286	2.95E-05	
168	9.99E-06	1.62E-05	-0.008151
-2.86E-05	0.000232	2.38E-05	
169	1.03E-05	1.20E-05	-0.009155
-2.03E-05	0.000168	1.71E-05	
170	1.06E-05	7.70E-06	-0.009817
-1.09E-05	9.42E-05	1.06E-05	
171	1.08E-05	3.55E-06	-0.010098
-1.51E-06	1.78E-05	1.21E-06	
172	1.10E-05	6.84E-08	-0.009998
6.61E-06	-5.78E-05	-6.43E-06	
173	1.10E-05	-1.87E-06	-0.009704
1.07E-05	-0.000110	-1.15E-05	
174	1.10E-05	-3.13E-06	-0.008981
1.50E-05	-0.000179	-1.99E-05	
175	1.09E-05	-4.86E-06	-0.007944
1.74E-05	-0.000234	-2.57E-05	
176	1.08E-05	-5.38E-06	-0.006674
1.86E-05	-0.000273	-2.98E-05	
177	1.07E-05	-5.43E-06	-0.005259
1.86E-05	-0.000291	-3.16E-05	
178	1.06E-05	-5.09E-06	-0.003819
1.70E-05	-0.000283	-3.08E-05	
179	1.05E-05	-4.37E-06	-0.002479
1.40E-05	-0.000250	-2.72E-05	
180	1.04E-05	-3.36E-06	-0.001357
9.95E-06	-0.000198	-2.16E-05	
181	1.04E-05	-2.25E-06	-0.000529
5.25E-06	-0.000131	-1.44E-05	
182	1.04E-05	-1.26E-06	-7.58E-05
6.95E-07	-5.05E-05	-5.24E-06	
183	1.04E-05	-8.37E-07	-2.36E-06
-1.92E-06	8.35E-06	5.82E-07	
184	1.05E-05	-6.27E-07	-0.000134
-3.43E-06	6.69E-05	6.35E-06	
185	1.06E-05	-7.57E-07	-0.000667
-4.04E-06	0.000146	1.54E-05	
186	1.07E-05	-1.12E-06	-0.001566
-3.48E-06	0.000212	2.22E-05	
187	1.08E-05	-1.53E-06	-0.002750
-2.58E-06	0.000262	2.75E-05	
188	1.09E-05	-1.85E-06	-0.004145
-1.53E-06	0.000293	3.07E-05	
189	1.10E-05	-2.05E-06	-0.005620
-3.35E-07	0.000295	3.08E-05	
190	1.11E-05	-2.11E-06	-0.007034
8.96E-07	0.000268	2.78E-05	
191	1.12E-05	-1.96E-06	-0.008257
2.11E-06	0.000221	2.27E-05	
192	1.12E-05	-1.55E-06	-0.009210
3.10E-06	0.000159	1.60E-05	
193	1.13E-05	-6.55E-07	-0.009811
3.12E-06	8.91E-05	6.89E-06	
194	1.13E-05	4.08E-07	-0.009998
2.23E-06	2.50E-05	1.32E-06	
195	1.13E-05	1.78E-06	-0.009985
1.97E-07	-3.24E-05	-4.32E-06	
196	1.14E-05	4.24E-06	-0.009624
-3.74E-06	-0.000112	-1.33E-05	
197	1.15E-05	6.89E-06	-0.008892
-8.10E-06	-0.000179	-2.05E-05	
198	1.17E-05	9.38E-06	-0.007857
-1.21E-05	-0.000235	-2.65E-05	
199	1.19E-05	1.14E-05	-0.006575
-1.53E-05	-0.000275	-3.08E-05	
200	1.21E-05	1.29E-05	-0.005156
-1.72E-05	-0.000290	-3.23E-05	
201	1.22E-05	1.37E-05	-0.003729
-1.78E-05	-0.000279	-3.11E-05	
202	1.24E-05	1.37E-05	-0.002412
-1.72E-05	-0.000248	-2.78E-05	
203	1.25E-05	1.28E-05	-0.001284
-1.57E-05	-0.000201	-2.29E-05	
204	1.25E-05	1.08E-05	-0.000424
-1.26E-05	-0.000142	-1.52E-05	
205	1.24E-05	8.44E-06	-5.80E-06
-9.36E-06	-9.71E-05	-1.07E-05	
206	1.22E-05	3.60E-06	0.000315
-2.19E-06	-3.07E-05	-4.29E-06	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 48

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
207	1.19E-05	-2.34E-06	0.000295
6.38E-06	3.89E-05	3.19E-06	
208	1.15E-05	-8.65E-06	-7.21E-05
1.50E-05	0.000106	1.03E-05	
209	1.11E-05	-1.48E-05	-0.000760
2.29E-05	0.000167	1.66E-05	
210	1.07E-05	-2.05E-05	-0.001740
2.97E-05	0.000222	2.22E-05	
211	1.03E-05	-2.54E-05	-0.002970
3.53E-05	0.000267	2.68E-05	
212	9.91E-06	-2.96E-05	-0.004402
3.95E-05	0.000303	3.03E-05	
213	9.54E-06	-3.30E-05	-0.005989
4.22E-05	0.000329	3.17E-05	
214	9.17E-06	-3.58E-05	-0.007687
4.44E-05	0.000347	3.54E-05	
215	8.79E-06	-3.85E-05	-0.009458
4.56E-05	0.000357	2.44E-05	
216	8.83E-06	-3.81E-05	-0.009995
4.57E-05	0.000357	3.00E-05	
217	5.18E-06	2.48E-05	6.07E-06
-4.73E-05	0.000385	4.75E-05	
218	5.12E-06	2.53E-05	-0.001709
-4.79E-05	0.000378	3.80E-05	
219	5.27E-06	2.42E-05	-0.003549
-4.59E-05	0.000359	3.77E-05	
220	5.61E-06	2.17E-05	-0.005270
-4.22E-05	0.000330	3.47E-05	
221	6.06E-06	1.82E-05	-0.006814
-3.64E-05	0.000288	3.05E-05	
222	6.56E-06	1.44E-05	-0.008120
-2.92E-05	0.000234	2.48E-05	
223	7.06E-06	1.03E-05	-0.009131
-2.07E-05	0.000170	1.81E-05	
224	7.55E-06	6.17E-06	-0.009803
-1.12E-05	9.78E-05	1.04E-05	
225	8.01E-06	2.25E-06	-0.010096
-1.47E-06	2.00E-05	2.13E-06	
226	8.40E-06	-9.97E-07	-0.010003
7.00E-06	-5.68E-05	-5.76E-06	
227	8.60E-06	-2.50E-06	-0.009713
1.09E-05	-0.000110	1.49E-05	
228	8.81E-06	-3.84E-06	-0.008991
1.50E-05	-0.000180	-1.94E-05	
229	8.97E-06	-4.62E-06	-0.007952
1.75E-05	-0.000236	-2.53E-05	
230	9.09E-06	-4.96E-06	-0.006683
1.87E-05	-0.000274	-2.91E-05	
231	9.18E-06	-4.91E-06	-0.005270
1.86E-05	-0.000292	-3.13E-05	
232	9.24E-06	-4.51E-06	-0.003830
1.71E-05	-0.000285	-3.05E-05	
233	9.27E-06	-3.80E-06	-0.002490
1.41E-05	-0.000252	-2.71E-05	
234	9.28E-06	-2.81E-06	-0.001365
9.98E-06	-0.000200	-2.16E-05	
235	9.27E-06	-1.66E-06	-0.000532
5.27E-06	-0.000133	-1.45E-05	
236	9.25E-06	-5.21E-07	-7.29E-05
4.53E-07	-5.16E-05	-5.31E-06	
237	9.22E-06	-2.42E-08	2.71E-06
-2.38E-06	6.74E-05	-7.45E-07	
238	9.20E-06	-2.37E-08	-0.000128
-3.57E-06	6.74E-05	6.46E-06	
239	9.15E-06	-4.67E-07	-0.000664
-3.99E-06	0.000148	1.55E-05	
240	9.10E-06	-9.95E-07	-0.001566
-3.48E-06	0.000214	2.23E-05	
241	9.03E-06	-1.45E-06	-0.002752
-2.55E-06	0.000264	2.76E-05	
242	8.94E-06	-1.79E-06	-0.004146
-1.52E-06	0.000295	3.08E-05	
243	8.86E-06	-1.99E-06	-0.005620
-3.39E-07	0.000297	3.09E-05	
244	8.77E-06	-2.07E-06	-0.007034
8.85E-07	0.000270	2.80E-05	
245	8.68E-06	-2.01E-06	-0.008258
2.13E-06	0.000223	2.29E-05	
246	8.59E-06	-1.77E-06	-0.009213
3.11E-06	0.000160	1.63E-05	
247	8.52E-06	-1.19E-06	-0.009817
3.34E-06	8.25E-05	9.32E-06	
248	8.48E-06	-3.50E-07	-0.010003
2.71E-06	2.47E-05	1.47E-06	
249	8.46E-06	1.08E-06	-0.009988
3.95E-07	-3.35E-05	-4.23E-06	
250	8.45E-06	3.65E-06	-0.009621
-3.83E-06	-0.000114	-1.33E-05	
251	8.40E-06	-3.12E-06	-0.008882
-8.17E-06	-0.000182	-2.04E-05	
252	8.43E-06	8.72E-06	-0.007843
-1.22E-05	-0.000237	-2.63E-05	
253	8.41E-06	1.08E-05	-0.006559
-1.54E-05	-0.000277	-3.05E-05	
254	8.37E-06	1.22E-05	-0.005140
-1.74E-05	-0.000291	-3.20E-05	
255	8.28E-06	1.30E-05	-0.003714
-1.80E-05	-0.000280	-3.07E-05	
256	8.15E-06	1.30E-05	-0.002397
-1.74E-05	-0.000249	-2.73E-05	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 49

< UNEQUAL SETTLEMENT >

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
257	7.94E-06	1.19E-05	-0.001269
-1.57E-05	-0.000203	-2.24E-05	
258	7.65E-06	9.68E-06	-0.000410
-1.23E-05	-0.000142	-1.47E-05	
259	7.39E-06	7.43E-06	5.11E-06
-8.79E-06	-9.61E-05	-1.02E-05	
260	6.95E-06	3.57E-06	0.000314
-1.81E-06	-2.79E-05	-3.62E-06	
261	6.42E-06	-1.12E-06	0.000278
6.61E-06	4.21E-05	3.93E-06	
262	5.81E-06	-6.39E-06	-0.000102
1.51E-05	0.000109	1.10E-05	
263	5.16E-06	-1.19E-05	-0.000799
2.30E-05	0.000170	1.17E-05	
264	4.50E-06	-1.73E-05	-0.001784
2.99E-05	0.000224	2.30E-05	
265	3.87E-06	-2.23E-05	-0.003013
3.55E-05	0.000268	2.76E-05	
266	3.28E-06	-2.68E-05	-0.004440
3.99E-05	0.000303	3.11E-05	
267	2.80E-06	-3.06E-05	-0.006020
4.29E-05	0.000329	3.36E-05	
268	2.47E-06	-3.26E-05	-0.007708
4.48E-05	0.000347	3.61E-05	
269	2.32E-06	-3.36E-05	-0.009469
4.50E-05	0.000357	2.49E-05	
270	2.45E-06	-3.26E-05	-0.010003
4.43E-05	0.000358	3.39E-05	
271	-0.000411	-8.44E-23	.000000
-3.76E-05	0.000385	-1.76E-06	
272	8.32E-05	-4.51E-22	-0.010000
-7.76E-07	-5.86E-05	-6.62E-07	
273	.000000	.000000	.000000
2.12E-06	8.64E-06	9.99E-08	
274	1.49E-06	-1.74E-05	-0.010000
-1.42E-06	2.52E-05	3.61E-07	
275	0.000133	2.53E-22	.000000
-6.78E-06	-9.80E-05	-8.51E-07	
276	-0.000380	-2.32E-22	-0.010000
3.91E-05	0.000359	-9.44E-07	
277	-0.000417	-3.77E-21	.000000
-2.25E-05	0.000387	3.49E-07	
278	7.84E-05	4.79E-22	-0.010000
1.47E-06	-5.77E-05	-5.67E-07	
279	.000000	.000000	.000000
-1.34E-08	8.16E-06	8.16E-08	
280	-2.01E-05	-2.09E-24	-0.010000
6.21E-07	2.49E-05	3.41E-07	
281	0.000126	-2.73E-22	.000000
-6.49E-06	-9.68E-05	-7.64E-07	
282	-0.000389	1.44E-21	-0.010000
3.03E-05	0.000360	3.00E-07	
283	-0.000419	3.25E-05	.000000
7.37E-06	0.000387	-9.18E-08	
284	7.50E-05	-1.18E-05	-0.010000
-7.86E-06	-5.64E-05	-5.02E-07	
285	1.42E-24	2.88E-06	.000000
2.60E-06	7.75E-06	6.53E-08	
286	-2.18E-05	-5.22E-06	-0.010000
-4.74E-06	2.43E-05	3.19E-07	
287	-0.000120	1.31E-05	.000000
3.95E-06	-9.60E-05	-8.55E-07	
288	-0.000394	-1.83E-05	-0.010000
1.31E-05	0.000360	-1.10E-07	

COMB SETTLE ---------- MAX

JOINT	U1	U2	U3
R1	R2	R3	
1	0.000194	4.16E-05	1.13E-08
4.38E-05	0.000384	1.76E-06	
2	0.000194	3.41E-05	0.000403
4.48E-05	0.000378	1.48E-06	
3	0.000194	2.81E-05	0.000815
4.35E-05	0.000359	9.41E-07	
4	0.000194	2.42E-05	0.001157
4.05E-05	0.000329	6.77E-07	
5	0.000194	2.09E-05	0.001397
3.58E-05	0.000286	6.69E-07	
6	0.000194	1.73E-05	0.001499
2.94E-05	0.000231	7.66E-07	
7	0.000194	1.32E-05	0.001431
2.19E-05	0.000177

9.67E-06	0.000115	1.25E-06	
45	0.000190	1.09E-05	0.001341
1.29E-05	0.000139	1.37E-06	
46	0.000189	1.20E-05	0.001703
1.72E-05	0.000163	1.34E-06	
47	0.000189	1.74E-05	0.001873
2.42E-05	0.000184	1.22E-06	
48	0.000189	2.23E-05	0.001868
3.04E-05	0.000221	1.05E-06	
49	0.000188	2.71E-05	0.001714
3.55E-05	0.000267	8.56E-07	
50	0.000188	3.10E-05	0.001437
3.94E-05	0.000303	6.92E-07	
51	0.000188	3.42E-05	0.001067
4.19E-05	0.000329	6.29E-07	
52	0.000188	3.76E-05	0.000630
4.33E-05	0.000348	7.39E-07	
53	0.000189	4.18E-05	0.000148
4.32E-05	0.000358	9.24E-07	
54	0.000188	4.32E-05	9.47E-09
4.27E-05	0.000359	9.44E-07	
55	0.000195	2.53E-05	1.17E-08
5.24E-05	0.000384	6.22E-07	
56	0.000195	2.63E-05	0.000397
5.00E-05	0.000377	2.71E-07	
57	0.000195	2.55E-05	0.000802
4.66E-05	0.000359	3.84E-07	
58	0.000195	2.28E-05	0.001139
4.22E-05	0.000329	6.47E-07	
59	0.000195	1.92E-05	0.001376
3.63E-05	0.000287	7.62E-07	
60	0.000195	1.53E-05	0.001478
2.90E-05	0.000233	8.20E-07	
61	0.000195	1.21E-05	0.001413
2.07E-05	0.000179	8.65E-07	
62	0.000195	1.13E-05	0.001156
1.66E-05	0.000119	8.94E-07	
63	0.000195	1.04E-05	0.000686
1.26E-05	0.000116	8.46E-07	
64	0.000195	9.36E-06	1.71E-08
9.43E-06	0.000159	5.67E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
65	0.000195	8.60E-06	0.000365
9.42E-06	0.000188	3.37E-07	
66	0.000195	7.52E-06	0.000759
1.44E-05	0.000225	1.97E-07	
67	0.000195	6.47E-06	0.001003
1.74E-05	0.000252	1.23E-07	
68	0.000195	5.74E-06	0.001115
1.88E-05	0.000274	1.46E-07	
69	0.000195	5.25E-06	0.001375
1.87E-05	0.000292	1.66E-07	
70	0.000195	4.83E-06	0.001537
1.70E-05	0.000284	1.72E-07	
71	0.000195	4.20E-06	0.001560
1.40E-05	0.000251	1.69E-07	
72	0.000195	4.35E-06	0.001406
1.01E-05	0.000199	2.35E-07	
73	0.000195	4.81E-06	0.001065
7.54E-06	0.000132	2.87E-07	
74	0.000195	5.44E-06	0.000513
5.74E-06	0.000133	2.54E-07	
75	0.000195	5.78E-06	1.62E-08
4.82E-06	0.000163	8.16E-08	
76	0.000195	5.76E-06	0.000516
3.96E-06	0.000191	2.05E-07	
77	0.000195	5.34E-06	0.001075
3.36E-06	0.000227	2.71E-07	
78	0.000195	4.78E-06	0.001429
3.31E-06	0.000253	2.55E-07	
79	0.000195	4.30E-06	0.001596
3.21E-06	0.000268	2.17E-07	
80	0.000195	5.30E-06	0.001581
3.22E-06	0.000294	1.70E-07	
81	0.000195	6.04E-06	0.001479
3.12E-06	0.000296	1.15E-07	
82	0.000195	6.50E-06	0.001495
2.92E-06	0.000269	1.65E-07	
83	0.000196	6.64E-06	0.001339
2.63E-06	0.000222	2.00E-07	
84	0.000196	6.49E-06	0.001008
2.51E-06	0.000159	2.16E-07	
85	0.000196	5.97E-06	0.000484
2.81E-06	0.000126	2.21E-07	
86	0.000196	5.21E-06	1.70E-08
3.44E-06	0.000153	3.41E-07	
87	0.000196	3.98E-06	0.000529
4.15E-06	0.000179	5.38E-07	
88	0.000196	4.27E-06	0.001104
5.74E-06	0.000213	5.90E-07	
89	0.000196	6.97E-06	0.001470
8.31E-06	0.000238	5.39E-07	
90	0.000196	9.60E-06	0.001645
1.21E-05	0.000254	5.06E-07	
91	0.000196	1.20E-05	0.001633
1.54E-05	0.000276	4.51E-07	
92	0.000196	1.41E-05	0.001469
1.75E-05	0.000291	3.70E-07	
93	0.000197	1.57E-05	0.001198
1.82E-05	0.000280	2.41E-07	
94	0.000197	1.64E-05	0.000867
1.77E-05	0.000248	1.32E-07	
95	0.000197	1.57E-05	0.000613
1.58E-05	0.000202	3.43E-07	
96	0.000197	1.33E-05	0.000294
1.22E-05	0.000142	6.07E-07	
97	0.000196	1.14E-05	1.68E-08
8.66E-06	9.67E-05	7.64E-07	
98	0.000196	1.03E-05	0.000763
9.95E-06	0.000116	9.50E-07	
99	0.000196	8.79E-06	0.001323
1.29E-05	0.000141	1.11E-06	
100	0.000196	1.00E-05	0.001677
1.62E-05	0.000164	1.18E-06	
101	0.000196	1.49E-05	0.001843
2.26E-05	0.000186	1.16E-06	
102	0.000195	1.97E-05	0.001836
2.96E-05	0.000223	1.08E-06	
103	0.000195	2.40E-05	0.001683
3.53E-05	0.000267	9.56E-07	
104	0.000194	2.83E-05	0.001410
3.98E-05	0.000303	8.03E-07	
105	0.000194	3.17E-05	0.001046
4.31E-05	0.000329	5.84E-07	
106	0.000194	3.39E-05	0.000617
4.55E-05	0.000347	2.45E-07	
107	0.000193	3.40E-05	0.000145
4.71E-05	0.000357	3.71E-07	
108	0.000193	3.36E-05	8.83E-09
4.76E-05	0.000358	3.94E-07	
109	0.000194	2.51E-05	1.00E-08
4.67E-05	0.000384	9.18E-08	
110	0.000194	2.45E-05	0.000390
4.66E-05	0.000378	1.90E-07	
111	0.000195	2.30E-05	0.000788
4.50E-05	0.000359	4.06E-07	
112	0.000195	2.05E-05	0.001120
4.18E-05	0.000330	6.18E-07	
113	0.000195	1.71E-05	0.001355
3.69E-05	0.000289	7.59E-07	
114	0.000195	1.32E-05	0.001457
3.04E-05	0.000235	8.21E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
115	0.000195	1.15E-05	0.001394
2.28E-05	0.000181	8.22E-07	
116	0.000195	1.09E-05	0.001143
1.79E-05	0.000121	7.71E-07	
117	0.000195	1.02E-05	0.000680
1.41E-05	0.000116	6.62E-07	
118	0.000195	9.38E-06	1.72E-08
1.08E-05	0.000159	5.02E-07	
119	0.000195	8.79E-06	0.000364
8.86E-06	0.000189	3.76E-07	
120	0.000195	7.80E-06	0.000754
1.17E-05	0.000226	2.14E-07	
121	0.000195	7.20E-06	0.000995
1.53E-05	0.000253	9.35E-08	
122	0.000195	6.54E-06	0.001103
1.75E-05	0.000275	1.42E-07	
123	0.000195	6.00E-06	0.001355
1.82E-05	0.000293	1.80E-07	
124	0.000195	5.63E-06	0.001516
1.74E-05	0.000285	2.00E-07	
125	0.000195	5.45E-06	0.001539
1.51E-05	0.000253	2.04E-07	
126	0.000195	5.43E-06	0.001390
1.20E-05	0.000201	2.17E-07	
127	0.000195	5.53E-06	0.001054
8.69E-06	0.000134	2.04E-07	
128	0.000195	5.65E-06	0.000509
7.05E-06	0.000132	1.38E-07	
129	0.000195	5.65E-06	1.63E-08
6.07E-06	0.000163	6.53E-08	
130	0.000195	5.52E-06	0.000512
5.37E-06	0.000192	1.01E-07	
131	0.000195	5.05E-06	0.001065
4.73E-06	0.000228	1.83E-07	
132	0.000195	4.35E-06	0.001413
4.34E-06	0.000254	2.15E-07	
133	0.000195	3.52E-06	0.001577
4.04E-06	0.000269	2.10E-07	
134	0.000195	4.33E-06	0.001560
3.76E-06	0.000295	1.84E-07	
135	0.000195	5.17E-06	0.001459
3.65E-06	0.000297	1.45E-07	
136	0.000196	5.79E-06	0.001476
3.69E-06	0.000271	1.19E-07	
137	0.000196	6.13E-06	0.001324
3.73E-06	0.000224	1.44E-07	
138	0.000196	6.12E-06	0.000998
3.85E-06	0.000161	1.62E-07	
139	0.000196	5.65E-06	0.000480
4.20E-06	0.000125	2.18E-07	
140	0.000196	5.00E-06	1.72E-08
4.71E-06	0.000153	3.19E-07	
141	0.000197	4.12E-06	0.000525
5.50E-06	0.000180	4.13E-07	
142	0.000197	3.73E-06	0.001093
7.01E-06	0.000214	4.97E-07	
143	0.000197	6.10E-06	0.001453
1.03E-05	0.000239	5.11E-07	
144	0.000198	8.62E-06	0.001624
1.33E-05	0.000255	5.07E-07	
145	0.000198	1.10E-05	0.001611
1.57E-05	0.000278	4.61E-07	
146	0.000198	1.31E-05	0.001448
1.69E-05	0.000292	3.62E-07	
147	0.000198	1.45E-05	0.001180
1.67E-05	0.000281	2.02E-07	
148	0.000198	1.50E-05	0.000854
1.51E-05	0.000250	1.75E-07	
149	0.000198	1.45E-05	0.000609
1.21E-05	0.000203	3.20E-07	
150	0.000198	1.33E-05	0.000293
7.67E-06	0.000143	5.22E-07	
151	0.000198	1.22E-05	1.60E-08
7.65E-06	9.60E-05	6.55E-07	
152	0.000198	1.07E-05	0.000756
1.03E-05	0.000118	8.20E-07	
153	0.000198	9.04E-06	0.001307
1.35E-05	0.000142	9.59E-07	
154	0.000198	8.21E-06	0.001654
1.75E-05	0.000166	1.06E-06	
155	0.000197	1.27E-05	0.001815
2.45E-05	0.000187	1.10E-06	
156	0.000197	1.73E-05	0.001806
3.08E-05	0.000224	1.08E-06	
157	0.000196	2.16E-05	0.001653
3.60E-05	0.000268	9.99E-07	
158	0.000196	2.55E-05	0.001384
3.99E-05	0.000303	8.50E-07	
159	0.000195	2.89E-05	0.001026
4.26E-05	0.000329	6.32E-07	
160	0.000195	3.14E-05	0.000605
4.41E-05	0.000347	3.72E-07	
161	0.000195	3.26E-05	0.000143
4.44E-05	0.000357	2.64E-07	
162	0.000194	3.28E-05	8.17E-09
4.43E-05	0.000357	2.66E-07	
163	0.000195	3.38E-05	4.09E-06
4.98E-05	0.000383	4.71E-05	
164	0.000195	3.04E-05	0.000401
4.78E-05	0.000377	3.75E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
165	0.000194	2.69E-05	0.000809
4.50E-05	0.000358	3.70E-05	
166	0.000194	2.35E-05	0.001148
4.11E-05	0.000329	3.38E-05	
167	0.000194	2.01E-05	0.001386
3.57E-05	0.000286	2.95E-05	
168	0.000194	1.62E-05	0.001488
2.86E-05	0.000232	2.38E-05	
169	0.000194	1.23E-05	0.001421
2.04E-05	0.000178	1.79E-05	
170	0.000194	1.15E-05	0.001162
1.62E-05	0.000118	1.16E-05	
171	0.000194	1.05E-05	0.000688
1.20E-05	0.000117	1.19E-05	
172	0.000195	9.42E-06	1.69E-07
8.56E-06	0.000159	1.53E-05	
173	0.000195	8.54E-06	0.000365
1.07E-05	0.000188	1.82E-05	
174	0.000195	7.72E-06	0.000760
1.50E-05	0.000224	2.36E-05	
175	0.000195	6.30E-06	0.001006
1.74E-05	0.000251	2.64E-05	
176	0.000195	6.15E-06	0.001123
1.86E-05	0.000273	2.98E-05	
177	0.000195	5.67E-06	0.001384
1.86E-05	0.000291	3.16E-05	
178	0.000195	5.09E-06	0.001547
1.70E-05	0.000283	3.08E-05	
179	0.000195	4.37E-06	0.001569
1.40E-05	0.000250	2.72E-05	
180	0.000195	3.88E-06	0.001413
9.95E-06	0.000198	2.16E-05	
181	0.000195	4.34E-06	0.001069
7.25E-06	0.000131	1.44E-05	
182	0.000195	4.86E-06	0.000514
5.21E-06	0.000133	1.32E-05	
183	0.000195	5.20E-06	1.41E-07
4.00E-06	0.000163	1.49E-05	
184	0.000195	5.42E-06	0.000516
3.43E-06	0.000191	1.89E-05	
185	0.000195	5.37E-06	0.001079
4.04E-06	0.000227	2.43E-05	
186	0.000195	5.06E-06	0.001436
3.48E-06	0.000253	2.71E-05	
187	0.000195	4.63E-06	0.001605
3.30E-06	0.000267	2.87E-05	
188	0.000195	5.69E-06	0.001591
3.32E-06	0.000293	3.07E-05	
189	0.000195	6.48E-06	0.001488
3.23E-06	0.000295	3.08E-05	
190	0.000195	6.91E-06	0.001503
3.00E-06	0.000268	2.78E-05	
191	0.000194	6.93E-06	0.001345
2.67E-06	0.000221	2.27E-05	
192	0.000194	6.54E-06	0.001011
3.10E-06	0.000159	1.60E-05	
193	0.000194	5.66E-06	0.000484
3.12E-06	0.000126	1.28E-05	
194	0.000194	4.65E-06	1.81E-07
2.60E-06	0.000153	1.43E-05	
195	0.000194	3.42E-06	0.000530
3.54E-06	0.000179	1.81E-05	
196	0.000194	4.78E-06	0.001108
5.35E-06	0.000213	2.31E-05	
197	0.000194	5.37E-06	0.001477
8.10E-06	0.000238	2.58E-05	
198	0.000194	1.00E-05	0.001655
1.21E-05	0.000253	2.75E-05	
199	0.000194	1.25E-05	0.001644
1.53E-05	0.000275	3.08E-05	
200	0.000194	1.45E-05	0.001479
1.72E-05	0.000290	3.23E-05	
201	0.000194	1.62E-05	0.001207
1.78E-05	0.000279	3.11E-05	
202	0.000194	1.74E-05	0.000874
1.72E-05	0.000248	2.78E-05	
203	0.000194	1.82E-05	0.000614
1.57E-05	0.000201	2.29E-05	
204	0.000194	1.82E-05	0.000295
1.26E-05	0.000142	1.52E-05	
205	0.000194	1.73E-05	4.25E-06
9.36E-06	9.71E-05	1.07E-05	
206	0.000193	1.43E-05	0.000759
9.08E-06	0.000116	9.82E-06	
207	0.000193	1.02E-05	0.001326
1.23E-05	0.000140	1.23E-05	
208	0.000192	1.08E-05	0.001686
1.58E-05	0.000164	1.48E-05	
209	0.000192	1.60E-05	0.001855
2.29E-05	0.000185	1.70E-05	
210	0.000192	2.09E-05	0.001850
2.97E-05	0.000222	2.22E-05	
211	0.000192	2.54E-05	0.001697
3.53E-05	0.000267	2.68E-05	
212	0.000191	2.96E-05	0.001423
3.95E-05	0.000303	3.03E-05	
213	0.000191	3.30E-05	0.001056
4.24E-05	0.000329	3.29E-05	
214	0.000191	3.58E-05	0.000622
4.44E-05	0.000347	3.54E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
215	0.000191	3.85E-05	0.000145
4.56E-05	0.000357	2.44E-05	
216	0.000191	3.81E-05	3.11E-06
4.57E-05	0.000357	3.00E-05	
217	0.000194	2.48E-05	9.31E-06
4.73E-05	0.000385	4.75E-05	
218	0.000195	2.53E-05	0.000393
4.79E-05	0.000378	3.80E-05	
219	0.000195	2.42E-05	0.000795
4.59E-05	0.000359	3.77E-05	
220	0.000195	2.17E-05	0.001130
4.20E-05	0.000330	3.47E-05	
221	0.000195	1.82E-05	0.001366
3.64E-05	0.000288	3.05E-05	
222	0.000195	1.44E-05	0.001468
2.92E-05	0.000234	2.48E-05	
223	0.000195	1.18E-05	0.001405
2.07E-05	0.000180	1.92E-05	
224	0.000195	1.11E-05	0.001151
1.64E-05	0.000121	1.28E-05	
225	0.000195	1.03E-05	0.000685
1.20E-05	0.000116	1.16E-05	
226	0.000195	9.39E-06	2.91E-06
8.34E-06	0.000159	1.51E-05	
227	0.000195	8.70E-06	0.000366
1.09E-05	0.000188	1.31E-05	
228	0.000195	7.75E-06	0.000758
1.50E-05	0.000225	2.35E-05	
229	0.000195	6.83E-06	0.001000
1.75E-05	0.000252	2.63E-05	
230	0.000195	6.03E-06	0.001110
1.87E-05	0.000274	2.94E-05	
231	0.000194	5.39E-06	0.001365
1.86E-05	0.000292	3.13E-05	
232	0.000195	4.96E-06	0.001527
1.71E-05	0.000285	3.05E-05	
233	0.000195	4.77E-06	0.001550
1.41E-05	0.000252	2.71E-05	
234	0.000195	4.82E-06	0.001399
9.98E-06	0.000200	2.16E-05	
235	0.000195	5.08E-06	0.001061
7.16E-06	0.000133	1.45E-05	
236	0.000195	5.43E-06	0.000513
4.97E-06	0.000133	1.30E-05	
237	0.000195	5.62E-06	2.71E-06
3.74E-06	0.000163	1.46E-05	
238	0.000195	5.57E-06	0.000515
3.57E-06	0.000191	1.89E-05	
239	0.000195	5.12E-06	0.001071
3.99E-06	0.000228	2.42E-05	
240	0.000195	4.51E-06	0.001422
3.48E-06	0.000254	2.69E-05	
241	0.000195	3.90E-06	0.001587
3.32E-06	0.000268	2.85E-05	
242	0.000196	4.86E-06	0.001571
3.31E-06	0.000295	3.08E-05	
243	0.000196	5.61E-06	0.001469
3.23E-06	0.000297	3.09E-05	
244	0.000196	6.11E-06	0.001486
3.00E-06	0.000266	2.92E-05	
245	0.000196	6.32E-06	0.001332
2.66E-06	0.000223	2.29E-05	
246	0.000196	6.23E-06	0.001004
3.11E-06	0.000160	1.63E-05	
247	0.000196	5.74E-06	0.000483
3.34E-06	0.000125	1.25E-05	
248	0.000196	5.02E-06	2.63E-06
2.71E-06	0.000153	1.41E-05	
249	0.000196	3.94E-06	0.000528
3.48E-06	0.000180	1.79E-05	
250	0.000196	4.16E-06	0.001100
5.43E-06	0.000214	2.30E-05	
251	0.000197	6.66E-06	0.001462
8.17E-06	0.000239	2.56E-05	
252	0.000197	9.19E-06	0.001636
1.22E-05	0.000254	2.73E-05	
253	0.000197	1.16E-05	0.001623
1.54E-05	0.000277	3.05E-05	
254	0.000197	1.36E-05	0.001459
1.74E-05	0.000291	3.20E-05	
255	0.000197	1.50E-05	0.001189
1.80E-05	0.000280	3.07E-05	
256	0.000197	1.55E-05	0.000860
1.74E-05	0.000249	2.73E-05	
257	0.000197	1.48E-05	0.000612
1.57E-05	0.000203	2.24E-05	
258	0.000197	1.29E-05	0.000294
1.23E-05	0.000142	1.47E-05	
259	0.000197	1.13E-05	8.25E-06
8.79E-06	9.61E-05	1.02E-05	
260	0.000197	1.01E-05	0.000766
8.82E-06	0.000117	1.09E-05	
261	0.000197	8.64E-06	0.001320
1.25E-05	0.000142	1.34E-05	
262	0.000197	9.28E-06	0.001669
1.61E-05	0.000165	1.59E-05	
263	0.000196	1.40E-05	0.001831
2.30E-05	0.000187	1.80E-05	
264	0.000196	1.86E-05	0.001822
2.99E-05	0.000224	2.30E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
265	0.000196	2.28E-05	0.001669
3.55E-05	0.000268	2.76E-05	
266	0.000195	2.68E-05	0.001398
3.99E-05	0.000303	3.11E-05	
267	0.000195	3.06E-05	0.001037
4.29E-05	0.000329	3.36E-05	
268	0.000194	3.26E-05	0.000612
4.48E-05	0.000347	3.61E-05	
269	0.000194	3.36E-05	0.000145
4.50E-05	0.000357	2.49E-05	
270	0.000194	3.26E-05	3.19E-06
4.43E-05	0.000358	3.06E-05	
271	0.000411	1.05E-21	.000000
3.76E-05	0.000385	1.76E-06	
272	0.000252	1.49E-21	.000000
4.10E-06	0.000160	6.62E-07	
273	.000000	.000000	.000000
2.12E-06	0.000163	1.08E-07	
274	0.000203	3.78E-23	.000000
4.98E-06	0.000153	3.61E-07	
275	0.000399	4.00E-22	.000000
9.95E-06	9.80E-05	8.51E-07	
276	0.000380	-1.43E-23	.000000
3.91E-05	0.000359	9.44E-07	
277	0.000417	2.04E-21	.000000
2.25E-05	0.000387	5.22E-07	
278	0.000253	1.61E-21	.000000
3.01E-06	0.000160	5.67E-07	
279	.000000	.000000	.000000
3.83E-08	0.000163	8.16E-08	
280	0.000204	4.38E-23	.000000
3.99E-06	0.000153	3.41E-07	
281	0.000404	-9.34E-22	.000000
6.49E-06	9.68E-05	7.64E-07	
282	0.000389	7.78E-23	.000000
3.03E-05	0.000360	3.94E-07	
283	0.000419	4.70E-05	.000000
8.29E-06	0.000387	9.18E-08	
284	0.000253	2.32E-05	.000000
1.57E-05	0.000159	5.02E-07	
285	1.42E-24	2.88E-06	.000000
2.60E-06	0.000163	6.53E-08	
286	0.000204	2.49E-05	.000000
1.61E-05	0.000153	3.19E-07	
287	0.000405	3.36E-05	.000000
4.63E-06	9.68E-05	6.55E-07	
288	0.000394	1.83E-05	.000000
1.31E-05	0.000360	2.66E-07	

COMB SETTLE ---------- MIN

JOINT	U1	U2	U3
R1	R2	R3	
1	-0.000193	-4.16E-05	-0.010000
-4.38E-05	-0.000384	-2.41E-06	
2	-0.000192	-3.41E-05	-0.008712
-4.48E-05	-0.000378	-1.99E-06	
3	-0.000191	-2.81E-05	-0.007305
-4.35E-05	-0.000359	-1.17E-06	
4	-0.000191	-2.42E-05	-0.005945
-4.05E-05	-0.000329	-7.23E-07	
5	-0.000191	-2.09E-05	-0.006862
-3.58E-05	-0.000286	-6.69E-07	
6	-0.000191	-1.73E-05	-0.008167
-2.94E-05	-0.000231	-7.66E-07	
7	-0.000191	-1.32E-05	-0.009171
-2.19E-05	-0.000202	-8.43E-07	
8	-0.000192	-8.95E-06	-0.009829
-1.42E-05	-0.000174	-8.24E-07	
9	-0.000192	-6.30E-06	-0.010106
-7.93E-06	-0.000144	-7.20E-07	
10	-0.000192	-8.35E-06	-0.010000
-1.19E-05	-0.000115	-6.62E-07	
11	-0.000192	-9.52E-06	-0.009899
-1.40E-05	-0.000110	-6.04E-07	
12	-0.000192	-1.04E-05	-0.009495
-1.65E-05	-0.000179	-4.08E-07	
13	-0.000193	-1.04E-05	-0.008802
-1.79E-05	-0.000234	-2.63E-07	
14	-0.000193	-9.83E-06	-0.007865
-1.83E-05	-0.000272	-2.13E-07	
15	-0.000194	-8.98E-06	-0.006725
-1.82E-05	-0.000290	-1.43E-07	
16	-0.000194	-8.12E-06	-0.006738
-1.73E-05	-0.000283	-1.70E-07	
17	-0.000195	-7.36E-06	-0.007887
-1.50E-05	-0.000263	-2.06E-07	
18	-0.000195	-6.81E-06	-0.008828
-1.19E-05	-0.000250	-1.91E-07	
19	-0.000195	-6.57E-06	-0.009519
-8.15E-06

48	-0.000193	-2.23E-05	-0.008284
-3.04E-05	-0.000221	-1.05E-06	
49	-0.000193	-2.71E-05	-0.007052
-3.55E-05	-0.000267	-8.56E-07	
50	-0.000193	-3.10E-05	-0.005953
-3.94E-05	-0.000303	-6.92E-07	
51	-0.000192	-3.42E-05	-0.007142
-4.19E-05	-0.000329	-6.29E-07	
52	-0.000192	-3.76E-05	-0.008369
-4.33E-05	-0.000348	-7.39E-07	
53	-0.000192	-4.18E-05	-0.009622
-4.32E-05	-0.000358	-9.24E-07	
54	-0.000192	-4.32E-05	-0.010000
-4.27E-05	-0.000359	-9.44E-07	
55	-0.000199	-2.53E-05	-0.010000
-5.24E-05	-0.000384	-3.49E-07	
56	-0.000199	-2.63E-05	-0.008713
-5.00E-05	-0.000377	-1.90E-07	
57	-0.000199	-2.55E-05	-0.007308
-4.66E-05	-0.000359	-3.84E-07	
58	-0.000198	-2.28E-05	-0.005951
-4.22E-05	-0.000329	-6.47E-07	
59	-0.000198	-1.92E-05	-0.006831
-3.63E-05	-0.000287	-7.62E-07	
60	-0.000197	-1.53E-05	-0.008136
-2.90E-05	-0.000233	-8.22E-07	
61	-0.000197	-1.11E-05	-0.009143
-2.06E-05	-0.000204	-8.65E-07	
62	-0.000197	-6.74E-06	-0.009810
-1.25E-05	-0.000175	-8.94E-07	
63	-0.000196	-8.64E-06	-0.010097
-9.24E-06	-0.000145	-8.48E-07	
64	-0.000196	-1.11E-05	-0.010000
-1.30E-05	-0.000115	-5.67E-07	
65	-0.000196	-1.18E-05	-0.009899
-1.54E-05	-0.000110	-3.37E-07	
66	-0.000196	-1.18E-05	-0.009491
-1.77E-05	-0.000179	-2.19E-07	
67	-0.000196	-1.13E-05	-0.008793
-1.88E-05	-0.000235	-2.04E-07	
68	-0.000196	-1.06E-05	-0.007853
-1.88E-05	-0.000274	-1.71E-07	
69	-0.000196	-9.83E-06	-0.006712
-1.87E-05	-0.000292	-1.22E-07	
70	-0.000196	-8.94E-06	-0.006723
-1.70E-05	-0.000284	-1.59E-07	
71	-0.000196	-8.06E-06	-0.007873
-1.40E-05	-0.000265	-1.94E-07	
72	-0.000196	-7.23E-06	-0.008817
-1.01E-05	-0.000251	-2.35E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
73	-0.000196	-6.48E-06	-0.009513
-5.84E-06	-2.82E-07		
74	-0.000196	-5.90E-06	-0.009926
-3.88E-06	-0.000191	-2.54E-07	
75	-0.000196	-5.78E-06	-0.010000
-4.82E-06	-0.000163	-1.62E-07	
76	-0.000196	-6.06E-06	-0.009933
-5.61E-06	-0.000134	-1.72E-07	
77	-0.000196	-6.65E-06	-0.009566
-5.97E-06	-0.000147	-1.79E-07	
78	-0.000196	-7.10E-06	-0.008900
-5.67E-06	-0.000213	-1.74E-07	
79	-0.000196	-7.27E-06	-0.007981
-4.91E-06	-0.000264	-1.52E-07	
80	-0.000196	-7.15E-06	-0.006840
-3.80E-06	-0.000294	-1.44E-07	
81	-0.000196	-6.72E-06	-0.006762
-2.48E-06	-0.000296	-1.53E-07	
82	-0.000196	-6.05E-06	-0.007907
-3.19E-06	-0.000270	-1.51E-07	
83	-0.000196	-5.97E-06	-0.008838
-4.03E-06	-0.000256	-1.37E-07	
84	-0.000196	-5.65E-06	-0.009521
-4.50E-06	-0.000231	-1.02E-07	
85	-0.000196	-5.19E-06	-0.009912
-4.35E-06	-0.000195	-1.64E-07	
86	-0.000196	-4.99E-06	-0.010000
-3.73E-06	-0.000167	-3.41E-07	
87	-0.000196	-5.14E-06	-0.009986
-3.01E-06	-0.000138	-5.38E-07	
88	-0.000196	-5.71E-06	-0.009623
-4.44E-06	-0.000113	-5.90E-07	
89	-0.000196	-6.59E-06	-0.008918
-8.31E-06	-0.000180	-5.38E-07	
90	-0.000196	-9.09E-06	-0.008011
-1.21E-05	-0.000237	-4.58E-07	
91	-0.000196	-1.11E-05	-0.006883
-1.54E-05	-0.000276	-3.48E-07	
92	-0.000196	-1.26E-05	-0.006415
-1.75E-05	-0.000291	-2.23E-07	
93	-0.000196	-1.34E-05	-0.007553
-1.82E-05	-0.000280	-1.76E-07	
94	-0.000196	-1.35E-05	-0.008518
-1.88E-05	-0.000257	-1.67E-07	
95	-0.000196	-1.23E-05	-0.009280
-1.88E-05	-0.000234	-3.43E-07	
96	-0.000196	-9.96E-06	-0.009796
-1.80E-05	-0.000200	-6.07E-07	
97	-0.000196	-7.57E-06	-0.010000
-1.71E-05	-0.000173	-7.64E-07	
98	-0.000196	-9.57E-06	-0.010314
-1.22E-05	-0.000133	-9.50E-07	
99	-0.000196	-1.25E-05	-0.010287
-7.64E-06	-9.17E-05	-1.11E-06	
100	-0.000196	-1.53E-05	-0.009913
-1.47E-05	-0.000125	-1.18E-06	
101	-0.000196	-1.77E-05	-0.009220
-2.26E-05	-0.000174	-1.16E-06	
102	-0.000196	-2.00E-05	-0.008238
-2.96E-05	-0.000223	-1.08E-06	
103	-0.000196	-2.39E-05	-0.007009
-3.53E-05	-0.000267	-9.56E-07	
104	-0.000196	-2.83E-05	-0.005962
-3.98E-05	-0.000303	-8.03E-07	
105	-0.000196	-3.17E-05	-0.007148
-4.31E-05	-0.000329	-5.84E-07	
106	-0.000196	-3.39E-05	-0.008372
-4.55E-05	-0.000347	-5.29E-07	
107	-0.000196	-3.40E-05	-0.009623
-4.71E-05	-0.000357	-4.71E-07	
108	-0.000196	-3.36E-05	-0.010000
-4.76E-05	-0.000358	-4.65E-07	
109	-0.000201	-2.51E-05	-0.010000
-4.67E-05	-0.000384	-1.72E-07	
110	-0.000201	-2.45E-05	-0.008717
-4.66E-05	-0.000378	-1.90E-07	
111	-0.000201	-2.30E-05	-0.007315
-4.50E-05	-0.000359	-4.06E-07	
112	-0.000201	-2.05E-05	-0.005959
-4.18E-05	-0.000330	-6.18E-07	
113	-0.000200	-1.71E-05	-0.006797
-3.69E-05	-0.000289	-7.59E-07	
114	-0.000200	-1.32E-05	-0.008102
-3.04E-05	-0.000235	-8.21E-07	
115	-0.000199	-9.15E-06	-0.009114
-2.28E-05	-0.000205	-8.22E-07	
116	-0.000198	-6.31E-06	-0.009790
-1.51E-05	-0.000177	-7.71E-07	
117	-0.000198	-9.03E-06	-0.010088
-8.18E-06	-0.000146	-6.62E-07	
118	-0.000197	-1.15E-05	-0.010000
-1.16E-05	-0.000116	-5.02E-07	
119	-0.000197	-1.18E-05	-0.009898
-1.39E-05	-0.000110	-3.76E-07	
120	-0.000197	-1.23E-05	-0.009486
-1.64E-05	-0.000181	-2.14E-07	
121	-0.000197	-1.21E-05	-0.008784
-1.79E-05	-0.000236	-1.48E-07	
122	-0.000196	-1.15E-05	-0.007841
-1.84E-05	-0.000275	-1.24E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
123	-0.000196	-1.07E-05	-0.006699
-1.82E-05	-0.000293	-1.46E-07	
124	-0.000196	-9.67E-06	-0.006709
-1.74E-05	-0.000285	-1.74E-07	
125	-0.000196	-8.64E-06	-0.007859
-1.51E-05	-0.000266	-1.90E-07	
126	-0.000196	-7.63E-06	-0.008806
-1.20E-05	-0.000252	-2.17E-07	
127	-0.000196	-6.76E-06	-0.009507
-8.39E-06	-0.000227	-2.04E-07	
128	-0.000196	-6.15E-06	-0.009923
-4.60E-06	-0.000191	-1.38E-07	
129	-0.000196	-5.94E-06	-0.010000
-3.48E-06	-0.000163	-1.17E-07	
130	-0.000196	-5.88E-06	-0.009931
-4.23E-06	-0.000133	-1.25E-07	
131	-0.000196	-5.95E-06	-0.009559
-4.77E-06	-0.000149	-1.28E-07	
132	-0.000196	-6.05E-06	-0.008888
-4.84E-06	-0.000214	-1.55E-07	
133	-0.000196	-6.05E-06	-0.007966
-4.54E-06	-0.000265	-1.72E-07	
134	-0.000196	-5.89E-06	-0.006824
-3.93E-06	-0.000295	-1.76E-07	
135	-0.000196	-5.55E-06	-0.006748
-3.15E-06	-0.000297	-1.68E-07	
136	-0.000196	-5.05E-06	-0.007893
-2.83E-06	-0.000271	-1.45E-07	
137	-0.000196	-5.01E-06	-0.008827
-3.22E-06	-0.000257	-9.94E-08	
138	-0.000196	-5.02E-06	-0.009515
-3.33E-06	-0.000232	-9.81E-08	
139	-0.000196	-5.04E-06	-0.009911
-3.04E-06	-0.000196	-2.18E-07	
140	-0.000196	-5.14E-06	-0.010000
-2.52E-06	-0.000167	-3.17E-07	
141	-0.000196	-5.36E-06	-0.009983
-3.78E-06	-0.000137	-4.13E-07	
142	-0.000196	-5.92E-06	-0.009614
-7.01E-06	-0.000115	-4.97E-07	
143	-0.000196	-6.64E-06	-0.008906
-1.03E-05	-0.000182	-5.11E-07	
144	-0.000196	-8.18E-06	-0.007996
-1.33E-05	-0.000238	-4.66E-07	
145	-0.000196	-1.03E-05	-0.006867
-1.57E-05	-0.000278	-3.80E-07	
146	-0.000196	-1.19E-05	-0.006407
-1.69E-05	-0.000292	-2.57E-07	
147	-0.000196	-1.29E-05	-0.007546
-1.67E-05	-1.0.000281	-1.68E-07	
148	-0.000196	-1.29E-05	-0.008514
-1.60E-05	-0.000258	-1.78E-07	
149	-0.000196	-1.20E-05	-0.009278
-1.43E-05	-0.000235	-3.08E-07	
150	-0.000196	-9.96E-06	-0.009796
-1.16E-05	-0.000201	-4.39E-07	
151	-0.000196	-7.95E-06	-0.010000
-9.29E-06	-0.000173	-6.55E-07	
152	-0.000196	-8.98E-06	-0.010304
-6.10E-06	-0.000133	-8.20E-07	
153	-0.000196	-1.14E-05	-0.010263
-1.10E-05	-9.10E-05	-9.59E-07	
154	-0.000196	-1.39E-05	-0.009878
-1.75E-05	-0.000127	-1.06E-06	
155	-0.000196	-1.63E-05	-0.009177
-2.45E-05	-0.000176	-1.10E-06	
156	-0.000196	-1.86E-05	-0.008192
-3.08E-05	-0.000224	-1.08E-06	
157	-0.000196	-2.07E-05	-0.006964
-3.60E-05	-0.000268	-9.96E-07	
158	-0.000196	-2.52E-05	-0.005972
-3.99E-05	-0.000303	-8.50E-07	
159	-0.000196	-2.89E-05	-0.007156
-4.26E-05	-0.000329	-6.76E-07	
160	-0.000195	-3.14E-05	-0.008377
-4.41E-05	-0.000347	-6.28E-07	
161	-0.000195	-3.26E-05	-0.009624
-4.44E-05	-0.000357	-5.77E-07	
162	-0.000195	-3.28E-05	-0.010000
-4.43E-05	-0.000357	-5.67E-07	
163	-0.000198	-3.38E-05	-0.009991
-4.98E-05	-0.000383	-4.71E-05	
164	-0.000197	-3.04E-05	-0.008707
-4.78E-05	-0.000377	-3.75E-05	
165	-0.000196	-2.69E-05	-0.007303
-4.50E-05	-0.000358	-3.70E-05	
166	-0.000196	-2.35E-05	-0.005946
-4.11E-05	-0.000329	-3.38E-05	
167	-0.000195	-2.01E-05	-0.006847
-3.57E-05	-0.000286	-1.62E-05	
168	-0.000195	-1.62E-05	-0.008151
-2.86E-05	-0.000232	-2.38E-05	
169	-0.000194	-1.20E-05	-0.009155
-2.03E-05	-0.000203	-2.03E-05	
170	-0.000194	-7.70E-06	-0.009817
-1.18E-05	-0.000174	-1.73E-05	
171	-0.000194	-7.62E-06	-0.010098
-9.87E-06	-0.000144	-1.42E-05	
172	-0.000194	-9.86E-06	-0.009998
-1.40E-05	-0.000115	-1.02E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
173	-0.000194	-1.08E-05	-0.009896
-1.61E-05	-0.000110	-1.15E-05	
174	-0.000194	-1.13E-05	-0.009491
-1.80E-05	-0.000179	-1.99E-05	
175	-0.000194	-1.10E-05	-0.008796
-1.89E-05	-0.000234	-2.57E-05	
176	-0.000195	-1.03E-05	-0.007858
-1.88E-05	-0.000273	-2.98E-05	
177	-0.000195	-9.44E-06	-0.006718
-1.86E-05	-0.000291	-3.16E-05	
178	-0.000195	-8.54E-06	-0.006730
-1.70E-05	-0.000283	-3.08E-05	
179	-0.000195	-7.70E-06	-0.007879
-1.40E-05	-0.000264	-2.86E-05	
180	-0.000195	-6.97E-06	-0.008821
-9.95E-06	-0.000251	-2.70E-05	
181	-0.000195	-6.23E-06	-0.009514
-5.25E-06	-0.000226	-2.43E-05	
182	-0.000195	-6.22E-06	-0.009924
-4.53E-06	-0.000191	-1.90E-05	
183	-0.000195	-6.35E-06	-0.009998
-5.65E-06	-0.000163	-1.50E-05	
184	-0.000195	-6.62E-06	-0.009931
-6.18E-06	-0.000134	-1.33E-05	
185	-0.000195	-7.10E-06	-0.009567
-6.27E-06	-0.000146	-1.54E-05	
186	-0.000195	-7.54E-06	-0.008904
-5.75E-06	-0.000212	-2.22E-05	
187	-0.000195	-7.79E-06	-0.007987
-4.93E-06	-0.000262	-2.75E-05	
188	-0.000195	-7.22E-06	-0.006847
-3.88E-06	-0.000293	-3.07E-05	
189	-0.000195	-7.28E-06	-0.006769
-2.60E-06	-0.000295	-3.08E-05	
190	-0.000195	-6.52E-06	-0.007913
-3.22E-06	-0.000269	-2.83E-05	
191	-0.000195	-6.28E-06	-0.008841
-4.13E-06	-0.000256	-2.67E-05	
192	-0.000195	-6.06E-06	-0.009522
-4.83E-06	-0.000230	-2.40E-05	
193	-0.000195	-5.71E-06	-0.009910
-4.96E-06	-0.000195	-1.87E-05	
194	-0.000195	-5.53E-06	-0.009998
-4.57E-06	-0.000167	-1.48E-05	
195	-0.000195	-5.45E-06	-0.009985
-3.59E-06	-0.000138	-1.30E-05	
196	-0.000195	-5.71E-06	-0.009624
-3.74E-06	-0.000112	-1.33E-05	
197	-0.000195	-6.89E-06	-0.008922
-8.10E-06	-0.000179	-2.05E-05	
198	-0.000195	-9.38E-06	-0.008018
-1.21E-05	-0.000235	-2.65E-05	
199	-0.000195	-1.14E-05	-0.006891
-1.53E-05	-0.000275	-3.08E-05	
200	-0.000195	-1.29E-05	-0.006418
-1.72E-05	-0.000290	-3.23E-05	
201	-0.000195	-1.37E-05	-0.007555
-1.78E-05	-0.000279	-3.11E-05	
202	-0.000195	-1.37E-05	-0.008518
-1.75E-05	-0.000257	-2.78E-05	
203	-0.000195	-1.28E-05	-0.009277
-1.72E-05	-0.000233	-2.31E-05	
204	-0.000195	-1.08E-05	-0.009791
-1.62E-05	-0.000199	-1.78E-05	
205	-0.000195	-9.24E-06	-0.009995
-1.49E-05	-0.000173	-1.50E-05	
206	-0.000195	-1.12E-05	-0.010315
-1.08E-05	-0.000135	-1.17E-05	
207	-0.000195	-1.36E-05	-0.010295
-7.66E-06	-9.27E-05	-1.47E-06	
208	-0.000195	-1.60E-05	-0.009928
-1.50E-05	-0.000123	-1.24E-05	
209	-0.000195	-1.85E-05	-0.009240
-2.29E-05	-0.000173	-1.75E-05	
210	-0.000195	-2.08E-05	-0.008260
-2.97E-05	-0.000222	-2.22E-05	
211	-0.000197	-2.54E-05	-0.007030
-3.53E-05	-0.000267	-2.68E-05	
212	-0.000194	-2.96E-05	-0.005957
-3.95E-05	-0.000303	-3.03E-05	
213	-0.000194	-3.30E-05	-0.007143
-4.24E-05	-0.000329	-3.29E-05	
214	-0.000194	-3.58E-05	-0.008369
-4.44E-05	-0.000347	-3.54E-05	
215	-0.000195	-3.85E-05	-0.009619
-4.56E-05	-0.000357	-2.44E-05	
216	-0.000195	-3.81E-05	-0.009996
-4.57E-05	-0.000357	-3.00E-05	
217	-0.000199	-2.48E-05	-0.010006
-4.73E-05	-0.000385	-2.48E-05	
218	-0.000200	-2.53E-05	-0.008718
-4.79E-05	-0.000378	-3.80E-05	
219	-0.000199	-2.42E-05	-0.007314
-4.59E-05	-0.000359	-3.77E-05	
220	-0.000199	-2.17E-05	-0.005956
-4.20E-05	-0.000330	-3.47E-05	
221	-0.000199	-1.82E-05	-0.006814
-3.64E-05	-0.000288	-3.05E-05	
222	-0.000198	-1.44E-05	-0.008120
-2.92E-05	-0.000234	-2.48E-05	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
223	-0.000198	-1.03E-05	-0.009131
-2.07E-05	-0.000205	-2.10E-05	
224	-0.000196	-6.17E-06	-0.009803
-1.22E-05	-0.000176	-1.80E-05	
225	-0.000197	-8.64E-06	-0.010096
-9.91E-06	-0.000146	-1.49E-05	
226	-0.000197	-1.09E-05	-0.010003
-1.42E-05	-0.000116	-1.07E-05	
227	-0.000197	-1.16E-05	-0.009901
-1.61E-05	-0.000110	-1.10E-05	
228	-0.000196	-1.18E-05	-0.009491
-1.81E-05	-0.000180	-1.94E-05	
229	-0.000196	-1.16E-05	-0.008791
-1.89E-05	-0.000236	-2.53E-05	
230	-0.000196	-1.10E-05	-0.007848
-1.88E-05	-0.000274	-2.94E-05	
231	-0.000196	-1.02E-05	-0.006706
-1.86E-05	-0.000292	-3.13E-05	
232	-0.000196	-9.29E-06	-0.006717
-1.71E-05	-0.000285	-3.05E-05	
233	-0.000196	-8.38E-06	-0.007867
-1.41E-05	-0.000265	-2.83E-05	
234	-0.000196	-7.49E-06	-0.008814
-9.96E-06	-0.000252	-2.68E-05	
235	-0.000196	-6.71E-06	-0.009513
-5.27E-06	-0.000227	-2.42E-05	
236	-0.000196	-6.09E-06	-0.009927
-4.51E-06	-0.000191	-1.89E-05	
237	-0.000196	-5.95E-06	-0.010003
-5.85E-06	-0.000163	-1.49E-05	
238	-0.000196	-6.09E-06	-0.009935
-6.34E-06	-0.000134	-1.32E-05	
239	-0.000196	-6.40E-06	-0.009565
-6.34E-06	-0.000148	-1.55E-05	
240	-0.000196	-6.65E-06	-0.008896
-5.79E-06	-0.000214	-2.23E-05	
241	-0.000196	-6.72E-06	-0.007975
-4.93E-06	-0.000264	-2.76E-05	
242	-0.000196	-6.56E-06	-0.006833
-3.88E-06	-0.000295	-3.08E-05	
243	-0.000196	-6.16E-06	-0.006756
-2.61E-06	-0.000297	-3.09E-05	
244	-0.000196	-5.55E-06	-0.007902
-3.22E-06	-0.000270	-2.82E-05	
245	-0.000196	-5.57E-06	-0.008834
-4.15E-06	-0.000257	-2.67E-05	
246	-0.000196	-5.43E-06	-0.009521
-4.85E-06	-0.000231	-2.40E-05	
247	-0.000196	-5.23E-06	-0.009914
-5.11E-06	-0.000195	-1.87E-05	
248	-0.000196	-5.16E-06	-0.010003
-4.85E-06	-0.000167	-1.46E-05	
249	-0.000196	-5.32E-06	-0.009988
-3.72E-06	-0.000137	-1.28E-05	
250	-0.000196	-5.90E-06	-0.009621
-3.83E-06	-0.000114	-1.33E-05	
251	-0.000196	-6.85E-06	-0.008914
-8.17E-06	-0.000182	-2.04E-05	
252	-0.000196	-8.72E-06	-0.008005
-1.22E-05	-0.000237	-2.63E-05	
253	-0.000196	-1.08E-05	-0.006875
-1.54E-05	-0.000277	-3.05E-05	
254	-0.000196	-1.22E-05	-0.006412
-1.74E-05	-0.000291	-3.21E-05	
255	-0.000196	-1.30E-05	-0.007551
-1.80E-05	-0.000280	-3.07E-05	
256	-0.000196	-1.30E-05	-0.008519
-1.81E-05	-0.000258	-2.73E-05	
257	-0.000196	-1.19E-05	-0.009282
-1.74E-05	-0.000234	-2.42E-05	
258	-0.000196	-9.68E-06	-0.009800
-1.52E-05	-0.000201	-1.89E-05	
259	-0.000196	-7.43E-06	-0.010005
-1.25E-05	-0.000173	-1.64E-05	
260	-0.000196	-9.31E-06	-0.010314
-9.64E-06	-0.000132	-1.35E-05	
261	-0.000196	-1.20E-05	-0.010278
-7.85E-06	-9.09E-05	-8.82E-06	
262	-0.000196	-1.46E-05	-0.009898
-1.51E-05	-0.000126	-1.31E-05	
263	-0.000196	-1.71E-05	-0.009201
-2.30E-05	-0.000175	-1.82E-05	
264	-0.000196	-1.93E-05	-0.008216
-2.99E-05	-0.000224	-2.30E-05	
265	-0.000196	-2.23E-05	-0.006987
-3.55E-05	-0.000268	-2.76E-05	
266	-0.000196	-2.68E-05	-0.005967
-3.99E-05	-0.000303	-3.11E-05	
267	-0.000196	-3.03E-05	-0.007153
-4.29E-05	-0.000329	-3.36E-05	
268	-0.000196	-3.25E-05	-0.008376
-4.48E-05	-0.000347	-3.61E-05	
269	-0.000195	-3.36E-05	-0.009626
-4.50E-05	-0.000357	-2.49E-05	
270	-0.000195	-3.26E-05	-0.010003
-4.43E-05	-0.000358	-3.06E-05	
271	-0.000584	-2.20E-22	-0.010000
-3.76E-05	-0.000385	-2.41E-06	
272	-0.000187	-1.11E-21	-0.010000
-3.00E-06	-0.000115	-6.62E-07	

J O I N T D I S P L A C E M E N T S

TRANSLATIONS AND ROTATIONS, IN LOCAL COORDINATES

JOINT	U1	U2	U3
R1	R2	R3	
273	.000000	.000000	-0.010000
-2.12E-06	-0.000163	-2.05E-07	
274	-0.000255	-9.10E-23	-0.010000
-3.30E-06	-0.000167	-3.61E-07	
275	-0.000174	-6.42E-22	-0.010000
-1.28E-05	-0.000174	-8.51E-07	
276	-0.000380	-3.42E-22	-0.010000
-3.91E-05	-0.000359	-9.44E-07	
277	-0.0005911	-2.15E-22	-0.010000
-2.28E-05	-0.000387	-3.49E-07	
278	-0.000188	-1.29E-21	-0.010000
-4.12E-06	-0.000116	-5.67E-07	
279	.000000	.000000	-0.010000
-1.90E-08	-0.000163	-1.62E-07	
280	-0.000256	-1.64E-22	-0.010000
-4.33E-06	-0.000167	-3.41E-07	
281	-0.000177	-1.49E-21	-0.010000
-1.32E-05	-0.000174	-7.64E-07	
282	-0.000389	-1.95E-21	-0.010000
-3.03E-05	-0.000360	-4.65E-07	
283	-0.000593	-3.25E-05	-0.010000
-7.37E-06	-0.000387	-1.72E-07	
284	-0.000188	-2.91E-05	-0.010000
-9.03E-06	-0.000116	-5.02E-07	
285	7.11E-26	-2.88E-06	-0.010000
-2.60E-06	-0.000163	-1.17E-07	
286	-0.000254	-2.95E-05	-0.010000
-1.23E-05	-0.000166	-3.19E-07	
287	-0.000176	-1.40E-05	-0.010000
-3.95E-06	-0.000174	-6.55E-07	
288	-0.000394	-1.83E-05	-0.010000
-1.31E-05	-0.000360	-5.67E-07	

R E S T R A I N T F O R C E S (R E A C T I O N S)

FORCES AND MOMENTS ACTING ON JOINTS, IN LOCAL COORDINATES

LOAD -A1 ----------

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	-12.933639	-12.686162
.000000	.000000	.000000	
272	.000000	-1.576600	23.601377
.000000	.000000	.000000	
273	6.090397	0.192090	-20.211165
.000000	.000000	.000000	
274	.000000	-0.113628	6.069736
.000000	.000000	.000000	
275	.000000	2.431881	-1.981117
.000000	.000000	.000000	
276	.000000	1.245963	0.264301
.000000	.000000	.000000	
277	.000000	11.418911	-17.662397
.000000	.000000	.000000	
278	.000000	3.319385	30.604985
.000000	.000000	.000000	
279	-0.599894	-0.396831	-21.362953
.000000	.000000	.000000	
280	.000000	0.072595	6.381494
.000000	.000000	.000000	
281	.000000	-2.399273	-1.192037
.000000	.000000	.000000	
282	.000000	-1.254301	0.625471
.000000	.000000	.000000	
283	.000000	.000000	-13.622401
.000000	.000000	.000000	
284	.000000	.000000	38.447222
.000000	.000000	.000000	
285	-4.532051	.000000	-21.624570
.000000	.000000	.000000	
286	.000000	.000000	6.445012
.000000	.000000	.000000	
287	.000000	.000000	-2.209928
.000000	.000000	.000000	
288	.000000	.000000	0.113133
.000000	.000000	.000000	

LOAD -P1 ----------

JOINT	F1	F2	F3
M1	M2	M3	
271	.000000	22.063439	28.888379
.000000	.000000	.000000	
272	.000000	3.346296	-59.997544
.000000	.000000	.000000	
273	-3.639016	-2.187549	58.327926
.000000	.000000	.000000	
274	.000000	0.458577	-28.220961
.000000	.000000	.000000	
275

```
 JOINT          F1          F2          F3
   M1          M2          M3
  275       .000000   -4.023943  -26.298651
 .000000     .000000     .000000
  276       .000000    1.347664    5.524646
 .000000     .000000     .000000
  277       .000000    4.347272  -22.425622
 .000000     .000000     .000000
  278       .000000    3.879230   66.717839
 .000000     .000000     .000000
  279      -0.138226   -6.948693  -90.167898
 .000000     .000000     .000000
  280       .000000    3.982695   67.802204
 .000000     .000000     .000000
  281       .000000    3.615938  -29.364186
 .000000     .000000     .000000
  282       .000000   -1.247226    5.550921
 .000000     .000000     .000000
  283       .000000     .000000  -19.170681
 .000000     .000000     .000000
  284       .000000     .000000   74.178961
 .000000     .000000     .000000
  285      -0.195580     .000000 -104.021835
 .000000     .000000     .000000
  286       .000000     .000000   75.042613
 .000000     .000000     .000000
  287       .000000     .000000  -27.956686
 .000000     .000000     .000000
  288       .000000     .000000    4.459803
 .000000     .000000     .000000

LOAD      -P3 ------------------

 JOINT          F1          F2          F3
   M1          M2          M3
  271       .000000   -5.863805    7.036047
 .000000     .000000     .000000
  272       .000000    0.440917  -28.108455
 .000000     .000000     .000000
  273      1.744212   -2.206154   59.386586
 .000000     .000000     .000000
  274       .000000    3.466919  -73.783049
 .000000     .000000     .000000
  275       .000000   23.947067   49.598022
 .000000     .000000     .000000
  276       .000000    0.858874  -18.078493
 .000000     .000000     .000000
  277       .000000    5.832819    5.149218
 .000000     .000000     .000000
  278       .000000   -0.476507  -29.856478
 .000000     .000000     .000000
  279      -0.893922    3.796001   67.920072
 .000000     .000000     .000000
  280       .000000   -6.828804  -87.941151
 .000000     .000000     .000000
  281       .000000  -21.576799   67.243679
 .000000     .000000     .000000
  282       .000000   -1.417853  -16.862884
 .000000     .000000     .000000
  283       .000000     .000000    6.710977
 .000000     .000000     .000000
  284       .000000     .000000  -30.120882
 .000000     .000000     .000000
  285      0.922883     .000000   75.044788
 .000000     .000000     .000000
  286       .000000     .000000 -101.605294
 .000000     .000000     .000000
  287       .000000     .000000   63.860045
 .000000     .000000     .000000
  288       .000000     .000000  -15.592748
 .000000     .000000     .000000

LOAD      -P4 ------------------

 JOINT          F1          F2          F3
   M1          M2          M3
  271       .000000    1.712813   -2.019815
 .000000     .000000     .000000
  272       .000000   -0.129900    8.138236
 .000000     .000000     .000000
  273      0.862301    0.325638  -26.820690
 .000000     .000000     .000000
  274       .000000   -2.072035   52.445256
 .000000     .000000     .000000
  275       .000000   -3.979494  -47.586213
 .000000     .000000     .000000
  276       .000000    9.148610   22.141668
 .000000     .000000     .000000
  277       .000000   -1.671574   -1.456688
 .000000     .000000     .000000
  278       .000000    0.016951    8.500771
 .000000     .000000     .000000
  279      -0.183870   -0.302839  -28.275148
 .000000     .000000     .000000
  280       .000000    3.751723   60.582288
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL           SETTLEMENT          >
                                          64

R E S T R A I N T   F O R C E S   ( R E A C
T I O N S )

 FORCES AND MOMENTS ACTING ON JOINTS,
IN LOCAL COORDINATES

 JOINT          F1          F2          F3
   M1          M2          M3
  281       .000000    0.604296  -63.519213
 .000000     .000000     .000000
  282       .000000   -7.420006   25.293554
 .000000     .000000     .000000
  283       .000000     .000000   -1.906580
 .000000     .000000     .000000
  284       .000000     .000000    8.453969
 .000000     .000000     .000000
  285      -0.665668     .000000  -28.523687
 .000000     .000000     .000000
  286       .000000     .000000   67.674202
 .000000     .000000     .000000
  287       .000000     .000000  -74.341704
 .000000     .000000     .000000
  288       .000000     .000000   21.219791
 .000000     .000000     .000000

LOAD      -P5 ------------------

 JOINT          F1          F2          F3
   M1          M2          M3
  271       .000000   -0.339665    0.383936
 .000000     .000000     .000000
  272       .000000    0.006912   -1.584271
 .000000     .000000     .000000
  273     -5.497870   -0.070024    5.043669
 .000000     .000000     .000000
  274       .000000    0.424268  -16.017612
 .000000     .000000     .000000
  275       .000000   -7.033086   17.046640
 .000000     .000000     .000000
  276       .000000   -6.809316   -8.619539
 .000000     .000000     .000000
  277       .000000    0.322605    0.266514
 .000000     .000000     .000000
  278       .000000    0.038973   -1.587804
 .000000     .000000     .000000
  279      0.419995   -0.035170    5.249473
 .000000     .000000     .000000
  280       .000000   -0.511087  -17.053280
 .000000     .000000     .000000
  281       .000000    8.566546   21.262910
 .000000     .000000     .000000
  282       .000000    5.512216  -11.695269
 .000000     .000000     .000000
  283       .000000     .000000    0.352455
 .000000     .000000     .000000
  284       .000000     .000000   -1.502544
 .000000     .000000     .000000
  285      4.458447     .000000    5.242228
 .000000     .000000     .000000
  286       .000000     .000000  -17.463233
 .000000     .000000     .000000
  287       .000000     .000000   30.345464
 .000000     .000000     .000000
  288       .000000     .000000   -9.669737
 .000000     .000000     .000000

LOAD  -2N+1- ------------------

 JOINT          F1          F2          F3
   M1          M2          M3
  271       .000000  -15.859970  -36.308363
 .000000     .000000     .000000
  272       .000000   -3.794126   89.690270
 .000000     .000000     .000000
  273      7.392675    4.463726 -122.758182
 .000000     .000000     .000000
  274       .000000   -4.349765  118.021622
 .000000     .000000     .000000
  275       .000000   -5.571556   -75.865981
 .000000     .000000     .000000
  276       .000000   11.742237   27.930615
 .000000     .000000     .000000
  277       .000000   14.094609  -41.544706
 .000000     .000000     .000000
  278       .000000    7.215566  105.823595
 .000000     .000000     .000000
  279     -0.921989   -7.648363 -139.805998
 .000000     .000000     .000000
  280       .000000    7.807014  134.765986
 .000000     .000000     .000000
  281       .000000   -1.820961   94.075436
 .000000     .000000     .000000
  282       .000000   -9.921533   31.469947
 .000000     .000000     .000000
  283       .000000     .000000  -34.699662
 .000000     .000000     .000000
  284       .000000     .000000  121.080151
 .000000     .000000     .000000
  285     -5.393299     .000000 -154.170092
 .000000     .000000     .000000
  286       .000000     .000000  149.161826
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL           SETTLEMENT          >
                                          65

R E S T R A I N T   F O R C E S   ( R E A C
T I O N S )

 FORCES AND MOMENTS ACTING ON JOINTS,
IN LOCAL COORDINATES

 JOINT          F1          F2          F3
   M1          M2          M3
  287       .000000     .000000 -104.508319
 .000000     .000000     .000000
  288       .000000     .000000   25.792727
 .000000     .000000     .000000

LOAD  -2N+2- ------------------

 JOINT          F1          F2          F3
   M1          M2          M3
  271       .000000   15.859970   36.308363
 .000000     .000000     .000000
  272       .000000    3.794126  -89.690270
 .000000     .000000     .000000
  273     -7.392675   -4.463726  122.758182
 .000000     .000000     .000000
  274       .000000    4.349765 -118.021622
 .000000     .000000     .000000
  275       .000000    5.571556   75.865981
 .000000     .000000     .000000
  276       .000000  -11.742237  -27.930615
 .000000     .000000     .000000
  277       .000000  -14.094609   41.544706
 .000000     .000000     .000000
  278       .000000   -7.215566 -105.823595
 .000000     .000000     .000000
  279      0.921989    7.648363  139.805998
 .000000     .000000     .000000
  280       .000000   -7.807014 -134.765986
 .000000     .000000     .000000
  281       .000000    1.820961   94.075436
 .000000     .000000     .000000
  282       .000000   -9.921533  -31.469947
 .000000     .000000     .000000
  283       .000000     .000000   34.699662
 .000000     .000000     .000000
  284       .000000     .000000 -121.080151
 .000000     .000000     .000000
  285     5.393299     .000000  154.170092
 .000000     .000000     .000000
  286       .000000     .000000 -149.161826
 .000000     .000000     .000000
  287       .000000     .000000  104.508319
 .000000     .000000     .000000
  288       .000000     .000000  -25.792727
 .000000     .000000     .000000

COMB  SETTLE ------------------ MAX

 JOINT          F1          F2          F3
   M1          M2          M3
  271       .000000   22.063439   36.308363
 .000000     .000000     .000000
  272       .000000    3.794126   89.690270
 .000000     .000000     .000000
  273      7.392675    4.463726  122.758182
 .000000     .000000     .000000
  274       .000000    4.349765  118.021622
 .000000     .000000     .000000
  275       .000000   23.947067   75.865981
 .000000     .000000     .000000
  276       .000000   11.742237   27.930615
 .000000     .000000     .000000
  277       .000000   14.094609   41.544706
 .000000     .000000     .000000
  278       .000000    7.215566  105.823595
 .000000     .000000     .000000
  279      1.395916    7.648363  139.805998
 .000000     .000000     .000000
  280       .000000    7.807014  134.765986
 .000000     .000000     .000000
  281       .000000   11.189292   94.075436
 .000000     .000000     .000000
  282       .000000    9.921533   31.469947
 .000000     .000000     .000000
  283       .000000     .000000   34.699662
 .000000     .000000     .000000
  284       .000000     .000000  121.080151
 .000000     .000000     .000000
  285     5.393299     .000000  154.170092
 .000000     .000000     .000000
  286       .000000     .000000  149.161826
 .000000     .000000     .000000
  287       .000000     .000000  104.508319
 .000000     .000000     .000000
  288       .000000     .000000   25.792727
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL           SETTLEMENT          >
                                          66

R E S T R A I N T   F O R C E S   ( R E A C
T I O N S )

 FORCES AND MOMENTS ACTING ON JOINTS,
IN LOCAL COORDINATES

 COMB  SETTLE ------------------ MIN

 JOINT          F1          F2          F3
   M1          M2          M3
  271       .000000  -15.859970  -36.308363
 .000000     .000000     .000000
  272       .000000   -3.794126  -89.690270
 .000000     .000000     .000000
  273     -7.392675   -4.463726 -122.758182
 .000000     .000000     .000000
  274       .000000   -4.349765 -118.021622
 .000000     .000000     .000000
  275       .000000  -11.292424   -75.865981
 .000000     .000000     .000000
  276       .000000  -11.742237   -27.930615
 .000000     .000000     .000000
  277       .000000  -20.250032   -41.544706
 .000000     .000000     .000000
  278       .000000   -7.215566 -105.823595
 .000000     .000000     .000000
  279     -0.921989   -7.648363 -139.805998
 .000000     .000000     .000000
  280       .000000   -7.807014 -134.765986
 .000000     .000000     .000000
  281       .000000  -21.576799   -94.075436
 .000000     .000000     .000000
  282       .000000   -9.921533   -31.469947
 .000000     .000000     .000000
  283       .000000     .000000   -34.699662
 .000000     .000000     .000000
  284       .000000     .000000 -121.080151
 .000000     .000000     .000000
  285     -5.393299     .000000 -154.170092
 .000000     .000000     .000000
  286       .000000     .000000 -149.161826
 .000000     .000000     .000000
  287       .000000     .000000 -104.508319
 .000000     .000000     .000000
  288       .000000     .000000   -25.792727
 .000000     .000000     .000000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL           SETTLEMENT          >
                                          67

G L O B A L   F O R C E   B A L A N C E

 TOTAL FORCE AND MOMENT AT THE ORIGIN,
IN GLOBAL COORDINATES

LOAD      -A1 ------------------

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS     -1.33E-09               -4.67E-11
4.76E-09    -4.57E-08   -8.51E-09    2.61E-09

  TOTAL    -1.33E-09   -4.67E-11    4.76E-09
-4.57E-08   -8.51E-09    2.61E-09

LOAD      -P1 ------------------

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS      3.18E-09               -8.15E-11
-3.82E-09    -2.15E-08               1.73E-07
-3.53E-08

  TOTAL     3.18E-09   -8.15E-11   -3.82E-09
-2.15E-08    1.73E-07   -3.53E-08

LOAD      -P2 ------------------

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS     -6.63E-10               -2.86E-11
1.16E-08    1.95E-08   -1.12E-06   -3.13E-09

  TOTAL    -6.63E-10   -2.86E-11    1.16E-08
 1.95E-08   -1.12E-06   -3.13E-09

LOAD      -P3 ------------------

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS     -1.11E-09                5.49E-11
-3.20E-09    -3.43E-08               4.81E-07
-8.73E-09

  TOTAL    -1.11E-09    5.49E-11   -3.20E-09
-3.43E-08    4.81E-07   -8.73E-09

LOAD      -P4 ------------------

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS     -1.95E-09               -1.02E-10
1.46E-08    -8.77E-09   -2.92E-06   -2.42E-08

  TOTAL    -1.95E-09   -1.02E-10    1.46E-08
 -8.77E-09   -2.92E-06   -2.42E-08

LOAD      -P5 ------------------

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS      2.45E-09                8.12E-11
3.21E-09    -2.80E-08   -8.03E-07    2.31E-08

  TOTAL     2.45E-09    8.12E-11    3.21E-09
 -2.80E-08   -8.03E-07    2.31E-08
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL           SETTLEMENT          >
                                          68

G L O B A L   F O R C E   B A L A N C E

 TOTAL FORCE AND MOMENT AT THE ORIGIN,
IN GLOBAL COORDINATES

LOAD  -2N+1- ------------------

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS     -3.85E-09               3.10E-11
-3.79E-09    2.62E-08               9.35E-07
2.86E-08

  TOTAL    -3.85E-09    3.10E-11   -3.79E-09
 2.62E-08    9.35E-07    2.86E-08

LOAD  -2N+2- ------------------

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS      3.90E-09               1.01E-10
7.39E-09    -2.36E-08    1.21E-06   -6.87E-09

  TOTAL     3.90E-09    1.01E-10    7.39E-09
-2.36E-08    1.21E-06   -6.87E-09

COMB  SETTLE ------------------ MAX

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS      3.90E-09               1.01E-10
1.46E-08    2.62E-08    1.21E-06    2.86E-08

  TOTAL     3.90E-09    1.01E-10    1.46E-08
 2.62E-08    1.21E-06    2.86E-08

COMB  SETTLE ------------------ MIN

                FX          FY          FZ
   MX          MY          MZ
APPLIED     .000000     .000000     .000000
 .000000     .000000     .000000
REACTNS     -3.85E-09               -1.02E-10
-3.82E-09    -4.57E-08               -2.92E-06
-3.53E-08

  TOTAL     -3.85E-09   -1.02E-10   -3.82E-09
-4.57E-08   -2.92E-06   -3.53E-08
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL           SETTLEMENT          >
                                          69

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      1 ================ LENGTH
=     4.489314

LOAD      -A1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    1.916550   14.234558   -3.390340
 4.688954   -1.276115    1.628977
 0.25000    1.916550   14.234558   -3.390340
 4.688954    2.528960  -14.346874
 0.50000    1.916550   14.234558   -3.390340
 4.688954    6.334035  -30.322725
 0.75000    1.916550   14.234558   -3.390340
 4.688954   10.139110  -46.298576
 1.00000    1.916550   14.234558   -3.390340
 4.688954   13.944184  -62.274427

LOAD      -P1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -3.057070  -30.451703    5.669408
-11.566609   1.635298   -2.737704
 0.25000   -3.057070  -30.451703    5.669408
-11.566609  -4.727640   31.439111
 0.50000   -3.057070  -30.451703    5.669408
-11.566609  -11.090579   65.615926
 0.75000   -3.057070  -30.451703    5.669408
-11.566609  -17.453517   99.792741
 1.00000   -3.057070  -30.451703    5.669408
-11.566609  -23.816456  133.969555

LOAD      -P2 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    0.679494   21.116209   -1.132321
 5.189190   -0.436982    0.574450
 0.25000    0.679494   21.116209   -1.132321
 5.189190    0.833854  -23.112473
 0.50000    0.679494   21.116209   -1.132321
 5.189190    2.104691  -46.824196
 0.75000    0.679494   21.116209   -1.132321
 5.189190    3.375527  -70.523520
 1.00000    0.679494   21.116209   -1.132321
 5.189190    4.646363  -94.222843

LOAD      -P3 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    0.603475   -6.378546   -1.502127
 2.198125   0.097810    0.697890
 0.25000    0.603475   -6.378546   -1.502127
 2.198125   1.783689    7.856714
 0.50000    0.603475   -6.378546   -1.502127
 2.198125   3.469569   15.015537
 0.75000    0.603475   -6.378546   -1.502127
 2.198125   5.155448   22.174361
 1.00000    0.603475   -6.378546   -1.502127
 2.198125   6.841328   29.333185

LOAD      -P4 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -0.179753    1.820216    0.445148
-0.622841  -0.018666   -0.204434
 0.25000   -0.179753    1.820216    0.445148
-0.622841  -0.519268   -2.247314
 0.50000   -0.179753    1.820216    0.445148
-0.622841  -1.018870   -4.290194
 0.75000   -0.179753    1.820216    0.445148
-0.622841  -1.518472   -6.333074
 1.00000   -0.179753    1.820216    0.445148
-0.622841  -2.018074   -8.375955

LOAD      -P5 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    0.037303   -0.340735   -0.089769
 0.113181   -0.000346    0.040821
 0.25000    0.037303   -0.340735   -0.089769
 0.113181   0.100404    0.423237
 0.50000    0.037303   -0.340735   -0.089769
 0.113181   0.201154    0.805653
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL           SETTLEMENT          >
                                          70

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
 0.75000    0.037303   -0.340735   -0.089769
 0.113181   0.301904    1.188069
 1.00000    0.037303   -0.340735   -0.089769
 0.113181   0.402654    1.570485

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    2.416291   37.170983   -4.077513
 9.255302   -1.732762    1.998993
 0.25000    2.416291   37.170983   -4.077513
 9.255302    2.843547  -39.719061
 0.50000    2.416291   37.170983   -4.077513
 9.255302    7.419856  -81.437116
 0.75000    2.416291   37.170983   -4.077513
 9.255302   11.996165 -123.155170
 1.00000    2.416291   37.170983   -4.077513
 9.255302   16.572474 -164.873225

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -2.416291  -37.170983    4.077513
-9.255302   1.732762   -1.998993
 0.25000   -2.416291  -37.170983    4.077513
-9.255302   -2.843547  39.719061
 0.50000   -2.416291  -37.170983    4.077513
-9.255302   -7.419856  81.437116
 0.75000   -2.416291  -37.170983    4.077513
-9.255302  -11.996165 123.155170
 1.00000   -2.416291  -37.170983    4.077513
-9.255302  -16.572474 164.873225

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    2.416291   37.170983    5.669408
 9.255302   1.732762    1.998993
 0.25000    2.416291   37.170983    5.669408
 9.255302   2.843547   39.719061
 0.50000    2.416291   37.170983    5.669408
 9.255302   7.419856   81.437116
 0.75000    2.416291   37.170983    5.669408
 9.255302   11.996165  123.155170
 1.00000    2.416291   37.170983    5.669408
 9.255302   16.572474  164.873225

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000   -3.057070  -37.170983   -4.077513
-11.566609  -1.732762   -2.737704
 0.25000   -3.057070  -37.170983   -4.077513
```

```
-11.566609    -4.727640   -39.719061
 0.50000    -3.057070   -37.170983    -4.077513
-11.566609   -11.090579   -81.437116
 0.75000    -3.057070   -37.170983    -4.077513
-11.566609   -17.453517  -123.155170
 1.00000    -3.057070   -37.170983    -4.077513
-11.566609   -23.816456  -164.873225

 ELEM        2 ================== LENGTH
=     4.987379

 LOAD      -A1 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    2.533257    14.637437    0.453809
  0.561855   12.450791   -62.197004
 0.25000    2.533257    14.637437    0.453809
  0.561855   11.884962   -80.447617
 0.50000    2.533257    14.637437    0.453809
  0.561855   11.319133   -98.698230
 0.75000    2.533257    14.637437    0.453809
  0.561855   10.753303  -116.948843
 1.00000    2.533257    14.637437    0.453809
  0.561855   10.187474  -135.199456
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                              71

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD      -P1 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -3.834488   -30.812971   -0.969359
-5.668886   -21.928246   133.895697
 0.25000   -3.834488   -30.812971   -0.969359
-5.668886   -20.719605   172.314691
 0.50000   -3.834488   -30.812971   -0.969359
-5.668886   -19.510964   210.733685
 0.75000   -3.834488   -30.812971   -0.969359
-5.668886   -18.302324   249.152678
 1.00000   -3.834488   -30.812971   -0.969359
-5.668886   -17.093683   287.571672

 LOAD      -P2 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.884442    20.955092    0.281476
  4.661741    4.150509   -94.215494
 0.25000    0.884442    20.955092    0.281476
  4.661741    3.799553  -120.343242
 0.50000    0.884442    20.955092    0.281476
  4.661741    3.448596  -146.470991
 0.75000    0.884442    20.955092    0.281476
  4.661741    3.097640  -172.598739
 1.00000    0.884442    20.955092    0.281476
  4.661741    2.746683  -198.726487

 LOAD      -P3 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.547570    -6.221722    0.298946
  0.573825    6.968756   29.319237
 0.25000    0.547570    -6.221722    0.298946
  0.573825    6.596017   37.076758
 0.50000    0.547570    -6.221722    0.298946
  0.573825    6.223279   44.834280
 0.75000    0.547570    -6.221722    0.298946
  0.573825    5.850540   52.591802
 1.00000    0.547570    -6.221722    0.298946
  0.573825    5.477801   60.349324

 LOAD      -P4 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.167843    1.772446   -0.077984
 -0.143879   -2.044618   -8.372617
 0.25000   -0.167843    1.772446   -0.077984
 -0.143879   -1.947384  -10.582582
 0.50000   -0.167843    1.772446   -0.077984
 -0.143879   -1.850149  -12.792548
 0.75000   -0.167843    1.772446   -0.077984
 -0.143879   -1.752915  -15.002513
 1.00000   -0.167843    1.772446   -0.077984
 -0.143879   -1.655681  -17.212478

 LOAD      -P5 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.037062   -0.330282    0.013114
  0.015343   0.402808    1.570182
 0.25000    0.037062   -0.330282    0.013114
  0.015343   0.386457    1.981993
 0.50000    0.037062   -0.330282    0.013114
  0.015343   0.370106    2.393803
 0.75000    0.037062   -0.330282    0.013114
  0.015343   0.353756    2.805614
 1.00000    0.037062   -0.330282    0.013114
  0.015343   0.337405    3.217424

 LOAD  -2N+1- ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    3.249856   37.364975    0.657300
  5.079718   14.556682  -164.785115
 0.25000    3.249856   37.364975    0.657300
  5.079718   13.737131  -211.373442
 0.50000    3.249856   37.364975    0.657300
  5.079718   12.917579  -257.961768
 0.75000    3.249856   37.364975    0.657300
  5.079718   12.098028  -304.550094
 1.00000    3.249856   37.364975    0.657300
  5.079718   11.278477  -351.138421
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                              72

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD  -2N+2- ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -3.249856   -37.364975   -0.657300
 -5.079718   -14.556682   164.785115
 0.25000   -3.249856   -37.364975   -0.657300
 -5.079718   -13.737131   211.373442
 0.50000   -3.249856   -37.364975   -0.657300
 -5.079718   -12.917579   257.961768
 0.75000   -3.249856   -37.364975   -0.657300
 -5.079718   -12.098028   304.550094
 1.00000   -3.249856   -37.364975   -0.657300
 -5.079718   -11.278477   351.138421

 COMB  SETTLE ------------------ MAX

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    3.249856   37.364975    0.657300
  5.079718   14.556682   164.785115
 0.25000    3.249856   37.364975    0.657300
  5.079718   13.737131   211.373442
 0.50000    3.249856   37.364975    0.657300
  5.079718   12.917579   257.961768
 0.75000    3.249856   37.364975    0.657300
  5.079718   12.098028   304.550094
 1.00000    3.249856   37.364975    0.657300
  5.079718   11.278477   351.138421

 COMB  SETTLE ------------------ MIN

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -3.834488   -37.364975   -0.969359
 -5.668886   -21.928246   164.785115
 0.25000   -3.834488   -37.364975   -0.969359
 -5.668886   -20.719605   211.373442
 0.50000   -3.834488   -37.364975   -0.969359
 -5.668886   -19.510964   257.961768
 0.75000   -3.834488   -37.364975   -0.969359
 -5.668886   -18.302324   304.550094
 1.00000   -3.834488   -37.364975   -0.969359
 -5.668886   -17.093683   351.138421

 ELEM        3 ================== LENGTH
=     4.987449

 LOAD      -A1 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    3.105260    14.639953    0.942730
 -1.446916    8.812059  -135.115314
 0.25000    3.105260    14.639953    0.942730
 -1.446916    7.636605  -153.369319
 0.50000    3.105260    14.639953    0.942730
 -1.446916    6.461151  -171.623324
 0.75000    3.105260    14.639953    0.942730
 -1.446916    5.285697  -189.877329
 1.00000    3.105260    14.639953    0.942730
 -1.446916    4.110244  -208.131334

 LOAD      -P1 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -4.538328   -30.731481   -1.803896
 -2.422461   -15.406289   287.491653
 0.25000   -4.538328   -30.731481   -1.803896
 -2.422461   -13.157080   325.809577
 0.50000   -4.538328   -30.731481   -1.803896
 -2.422461   -10.907870   364.127501
 0.75000   -4.538328   -30.731481   -1.803896
 -2.422461    -8.658660   402.445425
 1.00000   -4.538328   -30.731481   -1.803896
 -2.422461    -6.409451   440.763350

 LOAD      -P2 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    1.057276    20.855379    0.446295
  3.753720    2.332521  -198.722898
 0.25000    1.057276    20.855379    0.446295
  3.753720    1.776053  -224.726683
 0.50000    1.057276    20.855379    0.446295
  3.753720    1.219585  -250.730469
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                              73

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
       T          M2          M3
 0.75000    1.057276    20.855379    0.446295
  3.753720    0.663117  -276.734255
 1.00000    1.057276    20.855379    0.446295
  3.753720    0.106648  -302.738040

 LOAD      -P3 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.495769    -6.201288    0.534952
  0.143831    5.606982   60.339547
 0.25000    0.495769    -6.201288    0.534952
  0.143831    4.939971   68.071699
 0.50000    0.495769    -6.201288    0.534952
  0.143831    4.272960   75.803851
 0.75000    0.495769    -6.201288    0.534952
  0.143831    3.605949   83.536003
 1.00000    0.495769    -6.201288    0.534952
  0.143831    2.938937   91.268155

 LOAD      -P4 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.156871    1.766675   -0.146688
 -0.018659   -1.683253   -17.210350
 0.25000   -0.156871    1.766675   -0.146688
 -0.018659   -1.500353   -19.413150
 0.50000   -0.156871    1.766675   -0.146688
 -0.018659   -1.317452   -21.615950
 0.75000   -0.156871    1.766675   -0.146688
 -0.018659   -1.134552   -23.818750
 1.00000   -0.156871    1.766675   -0.146688
 -0.018659   -0.951652   -26.021550

 LOAD      -P5 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.036895   -0.329238    0.026608
 -0.009514    0.354980    3.217292
 0.25000    0.036895   -0.329238    0.026608
 -0.009514    0.304803    3.627876
 0.50000    0.036895   -0.329238    0.026608
 -0.009514    0.271627    4.038391
 0.75000    0.036895   -0.329238    0.026608
 -0.009514    0.238450    4.448905
 1.00000    0.036895   -0.329238    0.026608
 -0.009514    0.205273    4.859419

 LOAD  -2N+1- ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    4.005664    37.262006    1.242336
  2.288144    9.461328  -351.048562
 0.25000    4.005664    37.262006    1.242336
  2.288144    7.912306  -397.509152
 0.50000    4.005664    37.262006    1.242336
  2.288144    6.363284  -443.969743
 0.75000    4.005664    37.262006    1.242336
  2.288144    4.814262  -490.430333
 1.00000    4.005664    37.262006    1.242336
  2.288144    3.265240  -536.890924

 LOAD  -2N+2- ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -4.005664   -37.262006   -1.242336
 -2.288144   -9.461328   351.048562
 0.25000   -4.005664   -37.262006   -1.242336
 -2.288144   -7.912306   397.509152
 0.50000   -4.005664   -37.262006   -1.242336
 -2.288144   -6.363284   443.969743
 0.75000   -4.005664   -37.262006   -1.242336
 -2.288144   -4.814262   490.430333
 1.00000   -4.005664   -37.262006   -1.242336
 -2.288144   -3.265240   536.890924

 COMB  SETTLE ------------------ MAX

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    4.005664    37.262006    1.242336
  3.753720    9.461328   351.048562
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                              74

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
       T          M2          M3
 0.25000    4.005664    37.262006    1.242336
  3.753720    7.912306   397.509152
 0.50000    4.005664    37.262006    1.242336
  3.753720    6.461151   443.969743
 0.75000    4.005664    37.262006    1.242336
  3.753720    5.285697   490.430333
 1.00000    4.005664    37.262006    1.242336
  3.753720    4.110244   536.890924

 COMB  SETTLE ------------------ MIN

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -4.538328   -37.262006   -1.803896
 -2.422461   -15.406289   351.048562
 0.25000   -4.538328   -37.262006   -1.803896
 -2.422461   -13.157080   397.509152
 0.50000   -4.538328   -37.262006   -1.803896
 -2.422461   -10.907870   443.969743
 0.75000   -4.538328   -37.262006   -1.803896
 -2.422461    -8.658660   490.430333
 1.00000   -4.538328   -37.262006   -1.803896
 -2.422461    -6.409451   536.890924

 ELEM        4 ================== LENGTH
=     4.987537

 LOAD      -A1 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    3.645614    14.529665    0.424149
 -2.855117    2.811264  -208.042283
 0.25000    3.645614    14.529665    0.424149
 -2.855117    2.282400  -226.159094
 0.50000    3.645614    14.529665    0.424149
 -2.855117    1.753536  -244.275905
 0.75000    3.645614    14.529665    0.424149
 -2.855117    1.224671  -262.392716
 1.00000    3.645614    14.529665    0.424149
 -2.855117    0.695807  -280.509527

 LOAD      -P1 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -5.177249   -30.541486   -0.895842
  0.267294   -4.878518   440.677346
 0.25000   -5.177249   -30.541486   -0.895842
  0.267294   -3.761506   478.759047
 0.50000   -5.177249   -30.541486   -0.895842
  0.267294   -2.644494   516.840747
 0.75000   -5.177249   -30.541486   -0.895842
  0.267294   -1.527482   554.922448
 1.00000   -5.177249   -30.541486   -0.895842
  0.267294   -0.410470   593.004148

 LOAD      -P2 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    1.192680    20.780401    0.226663
  2.392627   -0.217447  -302.734779
 0.25000    1.192680    20.780401    0.226663
  2.392627   -0.500070  -328.645535
 0.50000    1.192680    20.780401    0.226663
  2.392627   -0.782692  -354.556291
 0.75000    1.192680    20.780401    0.226663
  2.392627   -1.065314  -380.467047
 1.00000    1.192680    20.780401    0.226663
  2.392627   -1.347937  -406.377803

 LOAD      -P3 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.449293    -6.207887    0.313474
  0.248581    3.055262   91.260191
 0.25000    0.449293    -6.207887    0.313474
  0.248581    2.664396   99.000708
 0.50000    0.449293    -6.207887    0.313474
  0.248581    2.273530  106.741225
 0.75000    0.449293    -6.207887    0.313474
  0.248581    1.882664  114.481742
 1.00000    0.449293    -6.207887    0.313474
  0.248581    1.491798  122.222259
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                              75

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD      -P4 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.147283    1.769893   -0.082157
 -0.052184   -0.975884   -26.019921
 0.25000   -0.147283    1.769893   -0.082157
 -0.052184   -0.873443   -29.226737
 0.50000   -0.147283    1.769893   -0.082157
 -0.052184   -0.771002   -30.433625
 0.75000   -0.147283    1.769893   -0.082157
 -0.052184   -0.668561   -32.640476
 1.00000   -0.147283    1.769893   -0.082157
 -0.052184   -0.566120   -34.847328

 LOAD      -P5 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.036944   -0.330585    0.013714
 -0.001201    0.205322    4.859446
 0.25000    0.036944   -0.330585    0.013714
 -0.001201    0.188222    5.271647
 0.50000    0.036944   -0.330585    0.013714
 -0.001201    0.171122    5.683848
 0.75000    0.036944   -0.330585    0.013714
 -0.001201    0.154022    6.096049
 1.00000    0.036944   -0.330585    0.013714
 -0.001201    0.136922    6.508251

 LOAD  -2N+1- ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    4.691012    37.079959    0.568654
 -0.514674    1.617933  -536.796982
 0.25000    4.691012    37.079959    0.568654
 -0.514674    0.908887  -583.031401
 0.50000    4.691012    37.079959    0.568654
 -0.514674    0.199842  -629.265820
 0.75000    4.691012    37.079959    0.568654
 -0.514674   -0.509204  -675.500239
 1.00000    4.691012    37.079959    0.568654
 -0.514674   -1.218250  -721.734658

 LOAD  -2N+2- ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -4.691012   -37.079959   -0.568654
  0.514674   -1.617933   536.796983
 0.25000   -4.691012   -37.079959   -0.568654
  0.514674   -0.908887   583.031401
 0.50000   -4.691012   -37.079959   -0.568654
  0.514674   -0.199842   629.265820
 0.75000   -4.691012   -37.079959   -0.568654
  0.514674    0.509204   675.500239
 1.00000   -4.691012   -37.079959   -0.568654
  0.514674    1.218250   721.734658

 COMB  SETTLE ------------------ MAX

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    4.691012    37.079959    0.568654
  2.392627    3.055262   536.796983
 0.25000    4.691012    37.079959    0.568654
  2.392627    2.664396   583.031401
 0.50000    4.691012    37.079959    0.568654
  2.392627    2.273530   629.265820
 0.75000    4.691012    37.079959    0.568654
  2.392627    1.882664   675.500239
 1.00000    4.691012    37.079959    0.568654
  2.392627    1.491798   721.734658

 COMB  SETTLE ------------------ MIN

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -5.177249   -37.079959   -0.895842
  0.267294   -4.878518   -536.796982
 0.25000   -5.177249   -37.079959   -0.895842
  0.267294   -3.761506   -583.031401
 0.50000   -5.177249   -37.079959   -0.895842
  0.267294   -2.644494   -629.265820
 0.75000   -5.177249   -37.079959   -0.895842
  0.267294   -1.527482   -675.500239
 1.00000   -5.177249   -37.079959   -0.895842
  0.267294   -0.410470   -721.734658
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                              76

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        5 ================== LENGTH
=     4.988074

 LOAD      -A1 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    4.149619    14.369715   -0.088614
 -3.958014   -0.521539  -289.420918
 0.25000    4.149619    14.369715   -0.088614
 -3.958014   -0.411035  -298.340118
 0.50000    4.149619    14.369715   -0.088614
 -3.958014   -0.300532  -316.259419
 0.75000    4.149619    14.369715   -0.088614
 -3.958014   -0.190028  -334.178720
 1.00000    4.149619    14.369715   -0.088614
 -3.958014   -0.079524  -352.098020

 LOAD      -P1 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -5.739077   -30.265676    0.005487
  2.544874    0.945487   592.916430
 0.25000   -5.739077   -30.265676    0.005487
  2.544874    0.938644   630.658287
 0.50000   -5.739077   -30.265676    0.005487
  2.544874    0.931801   668.400145
 0.75000   -5.739077   -30.265676    0.005487
  2.544874    0.924958   706.142002
 1.00000   -5.739077   -30.265676    0.005487
  2.544874    0.918115   743.883859

 LOAD      -P2 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    1.277945    20.661825   -0.007619
  0.993541   -1.553824  -406.373332
 0.25000    1.277945    20.661825   -0.007619
  0.993541   -1.544323  -432.139010
 0.50000    1.277945    20.661825   -0.007619
  0.993541   -1.534822  -457.904688
 0.75000    1.277945    20.661825   -0.007619
  0.993541   -1.525320  -483.670367
 1.00000    1.277945    20.661825   -0.007619
  0.993541   -1.515819  -509.436045

 LOAD      -P3 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.414938    -6.205087    0.112060
  0.543367   1.576035   122.215368
 0.25000    0.414938    -6.205087    0.112060
  0.543367   1.436295   129.953226
 0.50000    0.414938    -6.205087    0.112060
  0.543367   1.296554   137.691084
 0.75000    0.414938    -6.205087    0.112060
  0.543367   1.156814   145.428942
 1.00000    0.414938    -6.205087    0.112060
  0.543367   1.017073   153.166801

 LOAD      -P4 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.140981    1.771467   -0.022911
 -0.144850   -0.581605   -34.845941
 0.25000   -0.140981    1.771467   -0.022911
 -0.144850   -0.553034   -37.550693
 0.50000   -0.140981    1.771467   -0.022911
 -0.144850   -0.524463   -39.264045
 0.75000   -0.140981    1.771467   -0.022911
 -0.144850   -0.495892   -41.473098
 1.00000   -0.140981    1.771467   -0.022911
 -0.144850   -0.467321   -43.682150

 LOAD      -P5 ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.037556   -0.332245    0.001598
  0.021083   0.135446    6.892293
 0.25000    0.037556   -0.332245    0.001598
  0.021083   0.133454    6.922608
 0.50000    0.037556   -0.332245    0.001598
  0.021083   0.131461    7.336924
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                              77

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
       T          M2          M3
 0.75000    0.037556   -0.332245    0.001598
  0.021083   0.129469    7.751240
 1.00000    0.037556   -0.332245    0.001598
  0.021083   0.127477    8.165555

 LOAD  -2N+1- ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    5.286583    36.803008   -0.119145
 -3.109324   -2.656968  -721.640091
 0.25000    5.286583    36.803008   -0.119145
 -3.109324   -2.508392  -767.534122
 0.50000    5.286583    36.803008   -0.119145
 -3.109324   -2.359816  -813.428153
 0.75000    5.286583    36.803008   -0.119145
 -3.109324   -2.211241  -859.322184
 1.00000    5.286583    36.803008   -0.119145
 -3.109324   -2.062665  -905.216215

 LOAD  -2N+2- ------------------

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -5.286583   -36.803008    0.119145
  3.109324    2.656968   721.640091
 0.25000   -5.286583   -36.803008    0.119145
  3.109324    2.508392   767.534122
 0.50000   -5.286583   -36.803008    0.119145
  3.109324    2.359816   813.428153
 0.75000   -5.286583   -36.803008    0.119145
  3.109324    2.211241   859.322184
 1.00000   -5.286583   -36.803008    0.119145
  3.109324    2.062665   905.216215

 COMB  SETTLE ------------------ MAX

 REL DIST          P           V2          V3
       T          M2          M3
 0.00000    5.286583    36.803008    0.119145
  3.109324    2.656968   721.640091
 0.25000    5.286583    36.803008    0.119145
  3.109324    2.508392   767.534122
 0.50000    5.286583    36.803008    0.119145
  3.109324    2.359816   813.428153
```

```
 0.75000     5.286583    36.803008     0.119145
 3.109324    2.211241   859.322184
 1.00000     5.286583    36.803008     0.119145
 3.109324    2.062665   905.216215

COMB  SETTLE  ------------------- MIN

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -5.739077   -36.803008    -0.119145
-3.958014    -2.656968  -721.640091
 0.25000    -5.739077   -36.803008    -0.119145
-3.958014    -2.508392  -767.534122
 0.50000    -5.739077   -36.803008    -0.119145
-3.958014    -2.359816  -813.428153
 0.75000    -5.739077   -36.803008    -0.119145
-3.958014    -2.211241  -859.322184
 1.00000    -5.739077   -36.803008    -0.119145
-3.958014    -2.062665  -905.216215

ELEM        6  ================== LENGTH
=     4.987426

LOAD     -A1  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     4.610243    14.113208    -0.390057
-5.043911    -1.196359  -352.007523
 0.25000     4.610243    14.113208    -0.390057
-5.043911    -0.710014  -369.604669
 0.50000     4.610243    14.113208    -0.390057
-5.043911    -0.223669  -387.201814
 0.75000     4.610243    14.113208    -0.390057
-5.043911     0.262676  -404.798960
 1.00000     4.610243    14.113208    -0.390057
-5.043911     0.749021  -422.396105
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                  78

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.208355   -29.790332     0.541644
 4.907558    2.057851   743.795901
 0.25000    -6.208355   -29.790332     0.541644
 4.907558    1.382499   780.940171
 0.50000    -6.208355   -29.790332     0.541644
 4.907558    0.707147   818.084441
 0.75000    -6.208355   -29.790332     0.541644
 4.907558    0.031795   855.228710
 1.00000    -6.208355   -29.790332     0.541644
 4.907558   -0.643557   892.372980

LOAD     -P2  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     1.299491    20.426178    -0.173879
-0.689292    -1.569931  -509.433426
 0.25000     1.299491    20.426178    -0.173879
-0.689292    -1.353128  -534.901939
 0.50000     1.299491    20.426178    -0.173879
-0.689292    -1.136326  -560.370452
 0.75000     1.299491    20.426178    -0.173879
-0.689292    -0.919523  -585.838966
 1.00000     1.299491    20.426178    -0.173879
-0.689292    -0.702721  -611.307479

LOAD     -P3  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.399368    -6.184450     0.022294
 1.076684    1.054721   153.160267
 0.25000     0.399368    -6.184450     0.022294
 1.076684    1.026924   160.871388
 0.50000     0.399368    -6.184450     0.022294
 1.076684    0.999127   168.582509
 0.75000     0.399368    -6.184450     0.022294
 1.076684    0.971329   176.293631
 1.00000     0.399368    -6.184450     0.022294
 1.076684    0.943532   184.004752

LOAD     -P4  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -0.139803     1.769743     0.004406
-0.312582    -0.470049   -43.680780
 0.25000    -0.139803     1.769743     0.004406
-0.312582    -0.435543   -45.887397
 0.50000    -0.139803     1.769743     0.004406
-0.312582    -0.481037   -48.094013
 0.75000    -0.139803     1.769743     0.004406
-0.312582    -0.486530   -50.300629
 1.00000    -0.139803     1.769743     0.004406
-0.312582    -0.492024   -52.507245

LOAD     -P5  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.039056    -0.334348    -0.004407
 0.061542    0.123767     8.165561
 0.25000     0.039056    -0.334348    -0.004407
 0.061542    0.129262     8.582445
 0.50000     0.039056    -0.334348    -0.004407
 0.061542    0.134758     8.999329
 0.75000     0.039056    -0.334348    -0.004407
 0.061542    0.140253     9.416213
 1.00000     0.039056    -0.334348    -0.004407
 0.061542    0.145749     9.833098

LOAD  -2N+1-  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     5.769931    36.309130    -0.559530
-6.045784    -3.236339  -905.121729
 0.25000     5.769931    36.309130    -0.559530
-6.045784    -2.538686  -950.394004
 0.50000     5.769931    36.309130    -0.559530
-6.045784    -1.841032  -995.666279
 0.75000     5.769931    36.309130    -0.559530
-6.045784    -1.143378  -1040.939
 1.00000     5.769931    36.309130    -0.559530
-6.045784    -0.445724  -1086.211
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                  79

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2-  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -5.769931   -36.309130     0.559530
 6.045784    3.236339   905.121729
 0.25000    -5.769931   -36.309130     0.559530
 6.045784    2.538686   950.394004
 0.50000    -5.769931   -36.309130     0.559530
 6.045784    1.841032   995.666279
 0.75000    -5.769931   -36.309130     0.559530
 6.045784    1.143378   1040.939
 1.00000    -5.769931   -36.309130     0.559530
 6.045784    0.445724   1086.211

COMB  SETTLE  ------------------- MAX

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     5.769931    36.309130     0.559530
 6.045784    3.236339   905.121729
 0.25000     5.769931    36.309130     0.559530
 6.045784    2.538686   950.394004
 0.50000     5.769931    36.309130     0.559530
 6.045784    1.841032   995.666279
 0.75000     5.769931    36.309130     0.559530
 6.045784    1.143378   1040.939
 1.00000     5.769931    36.309130     0.559530
 6.045784    0.445724   1086.211

COMB  SETTLE  ------------------- MIN

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.208355   -36.309130    -0.559530
-6.045784    -3.236339  -905.121729
 0.25000    -6.208355   -36.309130    -0.559530
-6.045784    -2.538686  -950.394004
 0.50000    -6.208355   -36.309130    -0.559530
-6.045784    -1.841032  -995.666279
 0.75000    -6.208355   -36.309130    -0.559530
-6.045784    -1.143378  -1040.939
 1.00000    -6.208355   -36.309130    -0.559530
-6.045784    -0.702721  -1086.211

ELEM        7  ================== LENGTH
=     4.987008

LOAD     -A1  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     5.020281    13.657199    -0.484246
-5.638342    -0.247469  -422.309443
 0.25000     5.020281    13.657199    -0.484246
-5.638342     0.356266  -439.336583
 0.50000     5.020281    13.657199    -0.484246
-5.638342     0.960000  -456.363723
 0.75000     5.020281    13.657199    -0.484246
-5.638342     1.563735  -473.390862
 1.00000     5.020281    13.657199    -0.484246
-5.638342     2.167470  -490.418002

LOAD     -P1  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.568608   -28.896253     0.710585
 6.314618    0.236394   892.291772
 0.25000    -6.568608   -28.896253     0.710585
 6.314618   -0.649529   928.318234
 0.50000    -6.568608   -28.896253     0.710585
 6.314618   -1.535453   964.344696
 0.75000    -6.568608   -28.896253     0.710585
 6.314618   -2.421376   1000.371
 1.00000    -6.568608   -28.896253     0.710585
 6.314618   -3.307299   1036.398

LOAD     -P2  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     1.244804    19.940216    -0.231167
-1.949293    -0.574075  -611.308356
 0.25000     1.244804    19.940216    -0.231167
-1.949293    -0.285867  -636.168861
 0.50000     1.244804    19.940216    -0.231167
-1.949293     0.002340  -661.029365
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                  80

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P3  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.75000     1.244804    19.940216    -0.231167
-1.949293     0.290548  -685.869869
 1.00000     1.244804    19.940216    -0.231167
-1.949293     0.578755  -710.750374

LOAD     -P3  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.406781    -6.124412    -0.001190
 1.667436    0.925230   183.998916
 0.25000     0.406781    -6.124412    -0.001190
 1.667436    0.926713   191.634539
 0.50000     0.406781    -6.124412    -0.001190
 1.667436    0.928197   199.270161
 0.75000     0.406781    -6.124412    -0.001190
 1.667436    0.929680   206.905784
 1.00000     0.406781    -6.124412    -0.001190
 1.667436    0.931163   214.541407

LOAD     -P4  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -0.144896     1.760108     0.012027
-0.508106    -0.479465   -52.505927
 0.25000    -0.144896     1.760108     0.012027
-0.508106    -0.494460   -54.700346
 0.50000    -0.144896     1.760108     0.012027
-0.508106    -0.509455   -56.894764
 0.75000    -0.144896     1.760108     0.012027
-0.508106    -0.524451   -59.089183
 1.00000    -0.144896     1.760108     0.012027
-0.508106    -0.539446   -61.283601

LOAD     -P5  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.041638    -0.336858    -0.006010
 0.113687    0.139384     9.833039
 0.25000     0.041638    -0.336858    -0.006010
 0.113687    0.146877    11.253016
 0.50000     0.041638    -0.336858    -0.006010
 0.113687    0.154371    10.672994
 0.75000     0.041638    -0.336858    -0.006010
 0.113687    0.161864    11.092972
 1.00000     0.041638    -0.336858    -0.006010
 0.113687    0.169357    11.512950

LOAD  -2N+1-  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     6.120189    35.357523    -0.703385
-8.095741    -1.301009  -1086.124
 0.25000     6.120189    35.357523    -0.703385
-8.095741    -0.424062  -1130.206
 0.50000     6.120189    35.357523    -0.703385
-8.095741     0.452885  -1174.288
 0.75000     6.120189    35.357523    -0.703385
-8.095741     1.329832  -1218.370
 1.00000     6.120189    35.357523    -0.703385
-8.095741     2.206779  -1262.452

LOAD  -2N+2-  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.120189   -35.357523     0.703385
 8.095741    1.301009   1086.124
 0.25000    -6.120189   -35.357523     0.703385
 8.095741    0.424062   1130.206
 0.50000    -6.120189   -35.357523     0.703385
 8.095741   -0.452885   1174.288
 0.75000    -6.120189   -35.357523     0.703385
 8.095741   -1.329832   1218.370
 1.00000    -6.120189   -35.357523     0.703385
 8.095741   -2.206779   1262.452

COMB  SETTLE  ------------------- MAX

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     6.120189    35.357523     0.710585
 8.095741    1.301009   1086.124
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                  81

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
         T           M2           M3
 0.25000     6.120189    35.357523     0.710585
 8.095741    0.926713   1130.206
 0.50000     6.120189    35.357523     0.710585
 8.095741    0.060000   1174.288
 0.75000     6.120189    35.357523     0.710585
 8.095741    1.563735   1218.370
 1.00000     6.120189    35.357523     0.710585
 8.095741    2.206779   1262.452

COMB  SETTLE  ------------------- MIN

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.568608   -35.357523    -0.703385
-8.095741    -1.301009  -1086.124
 0.25000    -6.568608   -35.357523    -0.703385
-8.095741    -0.649529  -1130.206
 0.50000    -6.568608   -35.357523    -0.703385
-8.095741    -1.535453  -1174.288
 0.75000    -6.568608   -35.357523    -0.703385
-8.095741    -2.421376  -1218.370
 1.00000    -6.568608   -35.357523    -0.703385
-8.095741    -3.307299  -1262.452

ELEM        8  ================== LENGTH
=     4.987801

LOAD     -A1  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     5.371727    12.964533    -0.327536
-5.610918    1.313487   -490.339883
 0.25000     5.371727    12.964533    -0.327536
-5.610918    1.721907   -506.506010
 0.50000     5.371727    12.964533    -0.327536
-5.610918    2.130328   -522.672138
 0.75000     5.371727    12.964533    -0.327536
-5.610918    2.538749   -538.838266
 1.00000     5.371727    12.964533    -0.327536
-5.610918    2.947170   -555.004394

LOAD     -P1  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.802814   -27.493318     0.393470
 6.438904    -2.733373    1036.333
 0.25000    -6.802814   -27.493318     0.393470
 6.438904    -3.224011    1070.616
 0.50000    -6.802814   -27.493318     0.393470
 6.438904    -3.714649    1104.898
 0.75000    -6.802814   -27.493318     0.393470
 6.438904    -4.205287    1139.181
 1.00000    -6.802814   -27.493318     0.393470
 6.438904    -4.695925    1173.464

LOAD     -P2  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     1.102351    19.157709    -0.050560
-2.582363    0.920019   -710.760133
 0.25000     1.102351    19.157709    -0.050560
-2.582363    0.993066   -734.648844
 0.50000     1.102351    19.157709    -0.050560
-2.582363    1.046112   -758.537554
 0.75000     1.102351    19.157709    -0.050560
-2.582363    1.109158   -782.426265
 1.00000     1.102351    19.157709    -0.050560
-2.582363    1.172204   -806.314975

LOAD     -P3  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.440422    -6.034921    -0.027873
 2.309300    0.849469   214.536708
 0.25000     0.440422    -6.034921    -0.027873
 2.309300    0.884226   222.061954
 0.50000     0.440422    -6.034921    -0.027873
 2.309300    0.918982   229.587200
 0.75000     0.440422    -6.034921    -0.027873
 2.309300    0.953738   237.112446
 1.00000     0.440422    -6.034921    -0.027873
 2.309300    0.988495   244.637692
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                  82

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -0.157128     1.748083     0.017544
-0.736842    -0.509641   -61.282377
 0.25000    -0.157128     1.748083     0.017544
-0.736842    -0.531518   -63.462150
 0.50000    -0.157128     1.748083     0.017544
-0.736842    -0.553395   -65.641923
 0.75000    -0.157128     1.748083     0.017544
-0.736842    -0.575272   -67.821695
 1.00000    -0.157128     1.748083     0.017544
-0.736842    -0.597149   -70.001468

LOAD     -P5  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.045443    -0.342086    -0.005045
 0.181919    0.160039    11.512790
 0.25000     0.045443    -0.342086    -0.005045
 0.181919    0.166330    11.939354
 0.50000     0.045443    -0.342086    -0.005045
 0.181919    0.172621    12.365918
 0.75000     0.045443    -0.342086    -0.005045
 0.181919    0.178913    12.792482
 1.00000     0.045443    -0.342086    -0.005045
 0.181919    0.185204    13.219046

LOAD  -2N+1-  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     6.316949    33.870325    -0.360552
-8.930123    1.723865   -1262.382
 0.25000     6.316949    33.870325    -0.360552
-8.930123    2.173455   -1304.617
 0.50000     6.316949    33.870325    -0.360552
-8.930123    2.623045   -1346.852
 0.75000     6.316949    33.870325    -0.360552
-8.930123    3.072636   -1389.086
 1.00000     6.316949    33.870325    -0.360552
-8.930123    3.522226   -1431.321

LOAD  -2N+2-  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.316949   -33.870325     0.360552
 8.930123    1.723865   1262.382
 0.25000    -6.316949   -33.870325     0.360552
 8.930123    2.173455   1304.617
 0.50000    -6.316949   -33.870325     0.360552
 8.930123    2.623045   1346.852
 0.75000    -6.316949   -33.870325     0.360552
 8.930123    3.072636   1389.086
 1.00000    -6.316949   -33.870325     0.360552
 8.930123    3.522226   1431.321

COMB  SETTLE  ------------------- MAX

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     6.316949    33.870325     0.393470
 8.930123    1.723865   1262.382
 0.25000     6.316949    33.870325     0.393470
 8.930123    2.173455   1304.617
 0.50000     6.316949    33.870325     0.393470
 8.930123    2.623045   1346.852
 0.75000     6.316949    33.870325     0.393470
 8.930123    3.072636   1389.086
 1.00000     6.316949    33.870325     0.393470
 8.930123    3.522226   1431.321

COMB  SETTLE  ------------------- MIN

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.802814   -33.870325    -0.360552
-8.930123    -2.733373   -1262.382
 0.25000    -6.802814   -33.870325    -0.360552
-8.930123    -3.224011   -1304.617
 0.50000    -6.802814   -33.870325    -0.360552
-8.930123    -3.714649   -1346.852
 0.75000    -6.802814   -33.870325    -0.360552
-8.930123    -4.205287   -1389.086
 1.00000    -6.802814   -33.870325    -0.360552
-8.930123    -4.695925   -1431.321
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                  83

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM        9  ================== LENGTH
=     4.987631

LOAD     -A1  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     5.658618    11.905950     0.189445
-4.891742    2.252278   -554.936258
 0.25000     5.658618    11.905950     0.189445
-4.891742    2.016057   -569.781879
 0.50000     5.658618    11.905950     0.189445
-4.891742    1.779837   -584.627499
 0.75000     5.658618    11.905950     0.189445
-4.891742    1.543616   -599.473120
 1.00000     5.658618    11.905950     0.189445
-4.891742    1.307396   -614.318741

LOAD     -P1  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.902527   -25.310012    -0.664183
 5.127767    -4.454914    1173.420
 0.25000    -6.902527   -25.310012    -0.664183
 5.127767    -3.626740    1204.980
 0.50000    -6.902527   -25.310012    -0.664183
 5.127767    -2.798565    1236.539
 0.75000    -6.902527   -25.310012    -0.664183
 5.127767    -1.970390    1268.098
 1.00000    -6.902527   -25.310012    -0.664183
 5.127767    -1.142216    1299.657

LOAD     -P2  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.869038    17.908928     0.557500
-2.502647    1.738442   -806.335918
 0.25000     0.869038    17.908928     0.557500
-2.502647    1.043291   -828.666698
 0.50000     0.869038    17.908928     0.557500
-2.502647    0.348140   -850.997479
 0.75000     0.869038    17.908928     0.557500
-2.502647   -0.347010   -873.328259
 1.00000     0.869038    17.908928     0.557500
-2.502647    -1.042161  -895.659040

LOAD     -P3  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.501056    -5.882218    -0.114593
 3.003551    0.840815   244.633159
 0.25000     0.501056    -5.882218    -0.114593
 3.003551    0.983702   251.967742
 0.50000     0.501056    -5.882218    -0.114593
 3.003551    1.126588   259.302326
 0.75000     0.501056    -5.882218    -0.114593
 3.003551    1.269474   266.636909
 1.00000     0.501056    -5.882218    -0.114593
 3.003551    1.412361   273.971492

LOAD     -P4  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -0.176669     1.727285     0.033858
-1.006960    -0.549511   -69.999934
 0.25000    -0.176669     1.727285     0.033858
-1.006960    -0.591728   -72.153700
 0.50000    -0.176669     1.727285     0.033858
-1.006960    -0.633945   -74.307465
 0.75000    -0.176669     1.727285     0.033858
-1.006960    -0.676163   -76.461230
 1.00000    -0.176669     1.727285     0.033858
-1.006960    -0.718380   -78.614995

LOAD     -P5  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     0.050483    -0.349933    -0.002027
 0.270032    0.172890    13.218649
 0.25000     0.050483    -0.349933    -0.002027
 0.270032    0.175418    13.654093
 0.50000     0.050483    -0.349933    -0.002027
 0.270032    0.177945    14.091317
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                  84

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
         T           M2           M3
 0.75000     0.050483    -0.349933    -0.002027
 0.270032    0.180473    14.527652
 1.00000     0.050483    -0.349933    -0.002027
 0.270032    0.183001    14.963986

LOAD  -2N+1-  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000     6.350988    31.542163     0.780803
-8.401350    3.441209   -1431.272
 0.25000     6.350988    31.542163     0.780803
-8.401350    2.467621   -1470.602
 0.50000     6.350988    31.542163     0.780803
-8.401350    1.494032   -1509.932
 0.75000     6.350988    31.542163     0.780803
-8.401350    0.520443   -1549.263
 1.00000     6.350988    31.542163     0.780803
-8.401350   -0.453146   -1588.593

LOAD  -2N+2-  ------------------

REL DIST            P            V2           V3
         T           M2           M3
 0.00000    -6.350988   -31.542163    -0.780803
 8.401350    -3.441209    1431.272
 0.25000    -6.350988   -31.542163    -0.780803
 8.401350    -2.467621    1470.602
 0.50000    -6.350988   -31.542163    -0.780803
 8.401350    -1.494032    1509.932
 0.75000    -6.350988   -31.542163    -0.780803
 8.401350    -0.520443    1549.263
 1.00000    -6.350988   -31.542163    -0.780803
```

```
  8.401350    0.453146    1588.593

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.350988   31.542163    0.780803
 8.401350   3.441209    1431.272
0.25000    6.350988   31.542163    0.780803
 8.401350   2.467621    1470.602
0.50000    6.350988   31.542163    0.780803
 8.401350   1.779837    1509.932
0.75000    6.350988   31.542163    0.780803
 8.401350   1.543616    1549.263
1.00000    6.350988   31.542163    0.780803
 8.401350   1.412361    1588.593

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.902527  -31.542163   -0.780803
-8.401350  -4.454914   -1431.272
0.25000   -6.902527  -31.542163   -0.780803
-8.401350  -3.626740   -1470.602
0.50000   -6.902527  -31.542163   -0.780803
-8.401350  -2.798565   -1509.932
0.75000   -6.902527  -31.542163   -0.780803
-8.401350  -1.970390   -1549.263
1.00000   -6.902527  -31.542163   -0.780803
-8.401350  -1.142216   -1588.593

ELEM       10 ================== LENGTH
=    3.492083

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    5.942039   -13.064321   -0.592925
-1.369340   0.729408   -614.218871
0.25000    5.942039   -13.064321   -0.592925
-1.369340   1.247043   -602.813447
0.50000    5.942039   -13.064321   -0.592925
-1.369340   1.764679   -591.408023
0.75000    5.942039   -13.064321   -0.592925
-1.369340   2.282314   -580.002598
1.00000    5.942039   -13.064321   -0.592925
-1.369340   2.799949   -568.597174
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                      Page
<            UNEQUAL                SETTLEMENT          >
                                        85

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.955253    37.419699    1.110754
-1.791279  -1.222093    1299.546
0.25000   -6.955253    37.419699    1.110754
-1.791279  -2.191805    1266.878
0.50000   -6.955253    37.419699    1.110754
-1.791279  -3.161516    1234.209
0.75000   -6.955253    37.419699    1.110754
-1.791279  -4.131228    1201.541
1.00000   -6.955253    37.419699    1.110754
-1.791279  -5.100940    1168.873

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.574490   -41.578635   -0.657538
 0.904480  -0.212733   -895.637378
0.25000    0.574490   -41.578635   -0.657538
 0.904480   0.361311   -859.338366
0.50000    0.574490   -41.578635   -0.657538
 0.904480   0.935355   -823.039353
0.75000    0.574490   -41.578635   -0.657538
 0.904480   1.509399   -786.740340
1.00000    0.574490   -41.578635   -0.657538
 0.904480   2.083443   -750.441327

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.583883    22.438114    0.204195
 2.999606   1.188196   273.957482
0.25000    0.583883    22.438114    0.204195
 2.999606   1.009930   254.368542
0.50000    0.583883    22.438114    0.204195
 2.999606   0.831663   234.779602
0.75000    0.583883    22.438114    0.204195
 2.999606   0.653397   215.190663
1.00000    0.583883    22.438114    0.204195
 2.999606   0.475131   195.601723

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -0.202264   -6.442164   -0.074778
-1.088993  -0.649554   -78.610348
0.25000   -0.202264   -6.442164   -0.074778
-1.088993  -0.584271   -72.986205
0.50000   -0.202264   -6.442164   -0.074778
-1.088993  -0.518988   -67.362062
0.75000   -0.202264   -6.442164   -0.074778
-1.088993  -0.453705   -61.737919
1.00000   -0.202264   -6.442164   -0.074778
-1.088993  -0.388423   -56.113776

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.057104    1.227307    0.010291
0.345527   0.166777   14.963388
0.25000    0.057104    1.227307    0.010291
0.345527   0.157793   13.891923
0.50000    0.057104    1.227307    0.010291
0.345527   0.148808   12.820458
0.75000    0.057104    1.227307    0.010291
0.345527   0.139824   11.748994
1.00000    0.057104    1.227307    0.010291
0.345527   0.130839   10.677529

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.314265   -61.085120   -1.325240
-1.553854  -0.132880   -1588.467
0.25000    6.314265   -61.085120   -1.325240
-1.553854   1.024083   -1535.138
0.50000    6.314265   -61.085120   -1.325240
-1.553854   2.181045   -1481.809
0.75000    6.314265   -61.085120   -1.325240
-1.553854   3.338007   -1428.481
1.00000    6.314265   -61.085120   -1.325240
-1.553854   4.494969   -1375.152
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                      Page
<            UNEQUAL                SETTLEMENT          >
                                        86

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.314265   61.085120    1.325240
 1.553854   0.132880   1588.467
0.25000   -6.314265   61.085120    1.325240
 1.553854  -1.024083   1535.138
0.50000   -6.314265   61.085120    1.325240
 1.553854  -2.181045   1481.809
0.75000   -6.314265   61.085120    1.325240
 1.553854  -3.338007   1428.481
1.00000   -6.314265   61.085120    1.325240
 1.553854  -4.494969   1375.152

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.314265   61.085120    1.325240
 2.999606   1.188196   1588.467
0.25000    6.314265   61.085120    1.325240
 2.999606   1.247043   1535.138
0.50000    6.314265   61.085120    1.325240
 2.999606   2.181045   1481.809
0.75000    6.314265   61.085120    1.325240
 2.999606   3.338007   1428.481
1.00000    6.314265   61.085120    1.325240
 2.999606   4.494969   1375.152

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.955253   -61.085120   -1.325240
-1.791279  -1.222093   -1588.467
0.25000   -6.955253   -61.085120   -1.325240
-1.791279  -2.191805   -1535.138
0.50000   -6.955253   -61.085120   -1.325240
-1.791279  -3.161516   -1481.809
0.75000   -6.955253   -61.085120   -1.325240
-1.791279  -4.131228   -1428.481
1.00000   -6.955253   -61.085120   -1.325240
-1.791279  -5.100940   -1375.152

ELEM       11 ================== LENGTH
=    4.987270

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.136599   -14.222693   -0.021737
 0.198040   2.334539   -568.567435
0.25000    6.136599   -14.222693   -0.021737
 0.198040   2.361641   -550.834334
0.50000    6.136599   -14.222693   -0.021737
 0.198040   2.388743   -533.101234
0.75000    6.136599   -14.222693   -0.021737
 0.198040   2.415845   -515.368133
1.00000    6.136599   -14.222693   -0.021737
 0.198040   2.442947   -497.635033

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.820180    39.688807   -0.130655
-4.590041  -5.417256    1168.906
0.25000   -6.820180    39.688807   -0.130655
-4.590041  -5.254354    1119.421
0.50000   -6.820180    39.688807   -0.130655
-4.590041  -5.091451    1069.936
0.75000   -6.820180    39.688807   -0.130655
-4.590041  -4.928548    1020.452
1.00000   -6.820180    39.688807   -0.130655
-4.590041  -4.765646    970.966961

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.158463   -42.859926    0.102378
 2.077623   3.069961   -750.506912
0.25000    0.158463   -42.859926    0.102378
 2.077623   2.942314   -697.068411
0.50000    0.158463   -42.859926    0.102378
 2.077623   2.814666   -643.629909
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                      Page
<            UNEQUAL                SETTLEMENT          >
                                        87

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    0.158463   -42.859926    0.102378
 2.077623   2.687019   -590.191408
1.00000    0.158463   -42.859926    0.102378
 2.077623   2.559372   -536.752906

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.696687    22.652261    0.088823
 3.098572   0.208057   195.605522
0.25000    0.696687    22.652261    0.088823
 3.098572   0.097312   167.362288
0.50000    0.696687    22.652261    0.088823
 3.098572  -0.013434   139.119055
0.75000    0.696687    22.652261    0.088823
 3.098572  -0.124179   110.875821
1.00000    0.696687    22.652261    0.088823
 3.098572  -0.234925   82.632588

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -0.236329   -6.484850   -0.051998
-1.173089  -0.307950   -56.114057
0.25000   -0.236329   -6.484850   -0.051998
-1.173089  -0.243118   -48.028634
0.50000   -0.236329   -6.484850   -0.051998
-1.173089  -0.178286   -39.943210
0.75000   -0.236329   -6.484850   -0.051998
-1.173089  -0.113454   -31.857787
1.00000   -0.236329   -6.484850   -0.051998
-1.173089  -0.048622   -23.772364

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.064760    1.226400    0.013189
0.388895   0.112649   10.677139
0.25000    0.064760    1.226400    0.013189
0.388895   0.096205    9.148043
0.50000    0.064760    1.226400    0.013189
0.388895   0.079761    7.618946
0.75000    0.064760    1.226400    0.013189
0.388895   0.063317    6.089850
1.00000    0.064760    1.226400    0.013189
0.388895   0.046873    4.560753

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.058733   -63.567468    0.028643
 1.102575   5.096549   -1375.188
0.25000    6.058733   -63.567468    0.028643
 1.102575   5.060836   -1295.931
0.50000    6.058733   -63.567468    0.028643
 1.102575   5.025123   -1216.674
0.75000    6.058733   -63.567468    0.028643
 1.102575   4.989410   -1137.417
1.00000    6.058733   -63.567468    0.028643
 1.102575   4.953697   -1058.160

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.058733    63.567468   -0.028643
-1.102575  -5.096549    1375.188
0.25000   -6.058733    63.567468   -0.028643
-1.102575  -5.060836    1295.931
0.50000   -6.058733    63.567468   -0.028643
-1.102575  -5.025123    1216.674
0.75000   -6.058733    63.567468   -0.028643
-1.102575  -4.989410    1137.417
1.00000   -6.058733    63.567468   -0.028643
-1.102575  -4.953697    1058.160

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.136599   63.567468    0.102378
 3.098572   5.096549    1375.188
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                      Page
<            UNEQUAL                SETTLEMENT          >
                                        88

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.25000    6.136599   63.567468    0.102378
 3.098572   5.060836    1295.931
0.50000    6.136599   63.567468    0.102378
 3.098572   5.025123    1216.674
0.75000    6.136599   63.567468    0.102378
 3.098572   4.989410    1137.417
1.00000    6.136599   63.567468    0.102378
 3.098572   4.953697    1058.160

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.820180   -63.567468   -0.130655
-4.590041  -5.417256   -1375.188
0.25000   -6.820180   -63.567468   -0.130655
-4.590041  -5.254354   -1295.931
0.50000   -6.820180   -63.567468   -0.130655
-4.590041  -5.091451   -1216.674
0.75000   -6.820180   -63.567468   -0.130655
-4.590041  -4.989410   -1137.417
1.00000   -6.820180   -63.567468   -0.130655
-4.590041  -4.953697   -1058.160

ELEM       12 ================== LENGTH
=    4.987437

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.253800   -15.058308    0.192359
 0.664203   2.160741   -497.620098
0.25000    6.253800   -15.058308    0.192359
 0.664203   1.920896   -478.844508
0.50000    6.253800   -15.058308    0.192359
 0.664203   1.681051   -460.068917
0.75000    6.253800   -15.058308    0.192359
 0.664203   1.441206   -441.293326
1.00000    6.253800   -15.058308    0.192359
 0.664203   1.201361   -422.517735

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.565074    41.319149   -0.580533
-5.450700  -5.386417    971.028956
0.25000   -6.565074    41.319149   -0.580533
-5.450700  -4.662574    919.509791
0.50000   -6.565074    41.319149   -0.580533
-5.450700  -3.938730    867.990627
0.75000   -6.565074    41.319149   -0.580533
-5.450700  -3.214887    816.471462
1.00000   -6.565074    41.319149   -0.580533
-5.450700  -2.491044    764.952298

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -0.306934   -43.758355    0.367303
 2.490504   3.687375   -536.831696
0.25000   -0.306934   -43.758355    0.367303
 2.490504   3.229399   -482.271185
0.50000   -0.306934   -43.758355    0.367303
 2.490504   2.771423   -427.710674
0.75000   -0.306934   -43.758355    0.367303
 2.490504   2.313448   -373.150162
1.00000   -0.306934   -43.758355    0.367303
 2.490504   1.855472   -318.589651

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.818219    22.783252    0.050529
 3.085142  -0.528257    82.634579
0.25000    0.818219    22.783252    0.050529
 3.085142  -0.654261    58.219569
0.50000    0.818219    22.783252    0.050529
 3.085142  -0.654261    25.819559
0.75000    0.818219    22.783252    0.050529
 3.085142  -0.717264   -2.587950
1.00000    0.818219    22.783252    0.050529
 3.085142  -0.780266   -30.995460
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                      Page
<            UNEQUAL                SETTLEMENT          >
                                        89

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -0.272570   -6.510998   -0.044585
-1.202126   0.038531   -23.771606
0.25000   -0.272570   -6.510998   -0.044585
-1.202126   0.094122   -15.653308
0.50000   -0.272570   -6.510998   -0.044585
-1.202126   0.149713   -7.535010
0.75000   -0.272570   -6.510998   -0.044585
-1.202126   0.205304    0.583288
1.00000   -0.272570   -6.510998   -0.044585
-1.202126   0.260895    8.701586

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.072559    1.225259    0.014927
0.412977   0.028027    4.559866
0.25000    0.072559    1.225259    0.014927
0.412977   0.009416    3.032140
0.50000    0.072559    1.225259    0.014927
0.412977  -0.009195    1.504414
0.75000    0.072559    1.225259    0.014927
0.412977  -0.027807   -0.023311
1.00000    0.072559    1.225259    0.014927
0.412977  -0.046418   -1.551037

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    5.674296   -65.327661    0.515078
 1.952581   5.886646   -1058.223
0.25000    5.674296   -65.327661    0.515078
 1.952581   5.244417   -976.769001
0.50000    5.674296   -65.327661    0.515078
 1.952581   4.602187   -895.314600
0.75000    5.674296   -65.327661    0.515078
 1.952581   3.959958   -813.860200
1.00000    5.674296   -65.327661    0.515078
 1.952581   3.317728   -732.405800

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -5.674296    65.327661   -0.515078
-1.952581  -5.886646    1058.223
0.25000   -5.674296    65.327661   -0.515078
-1.952581  -5.244417    976.769001
0.50000   -5.674296    65.327661   -0.515078
-1.952581  -4.602187    895.314600
0.75000   -5.674296    65.327661   -0.515078
-1.952581  -3.959958    813.860200
1.00000   -5.674296    65.327661   -0.515078
-1.952581  -3.317728    732.405800

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.253800   65.327661    0.515078
 3.085142   5.886646    1058.223
0.25000    6.253800   65.327661    0.515078
 3.085142   5.244417    976.769001
0.50000    6.253800   65.327661    0.515078
 3.085142   4.602187    895.314600
0.75000    6.253800   65.327661    0.515078
 3.085142   3.959958    816.471462
1.00000    6.253800   65.327661    0.515078
 3.085142   3.317728    764.952298

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.565074   -65.327661   -0.580533
-5.450700  -5.886646   -1058.223
0.25000   -6.565074   -65.327661   -0.580533
-5.450700  -5.244417   -976.769001
0.50000   -6.565074   -65.327661   -0.580533
-5.450700  -4.602187   -895.314600
0.75000   -6.565074   -65.327661   -0.580533
-5.450700  -3.959958   -813.860200
1.00000   -6.565074   -65.327661   -0.580533
-5.450700  -3.317728   -732.405800
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                      Page
<            UNEQUAL                SETTLEMENT          >
                                        90

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       13 ================== LENGTH
=    4.987665

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    6.311572   -15.599893    0.185736
 0.463448   1.064284   -422.512432
0.25000    6.311572   -15.599893    0.185736
 0.463448   0.832687   -403.060670
0.50000    6.311572   -15.599893    0.185736
 0.463448   0.601090   -383.608909
0.75000    6.311572   -15.599893    0.185736
 0.463448   0.369493   -364.157148
1.00000    6.311572   -15.599893    0.185736
 0.463448   0.137896   -344.705386

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.193232    42.343734   -0.584122
-5.212519  -3.396250   765.034242
0.25000   -6.193232    42.343734   -0.584122
-5.212519  -2.667899   712.235149
0.50000   -6.193232    42.343734   -0.584122
-5.212519  -1.939547   659.436056
0.75000   -6.193232    42.343734   -0.584122
-5.212519  -1.211195   606.636963
1.00000   -6.193232    42.343734   -0.584122
-5.212519  -0.482844   553.837870

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -0.833378   -44.279365    0.381404
 2.694656   3.131877   -318.679540
0.25000   -0.833378   -44.279365    0.381404
 2.694656   2.656299   -263.466876
0.50000   -0.833378   -44.279365    0.381404
 2.694656   2.180720   -208.254213
0.75000   -0.833378   -44.279365    0.381404
 2.694656   1.705142   -153.041550
1.00000   -0.833378   -44.279365    0.381404
 2.694656   1.229564   -97.828887

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.944797    22.831603    0.044801
 2.769945  -1.085812   -30.992478
0.25000    0.944797    22.831603    0.044801
 2.769945  -1.141675   -59.461576
0.50000    0.944797    22.831603    0.044801
 2.769945  -1.197538   -87.930675
0.75000    0.944797    22.831603    0.044801
 2.769945  -1.253401   -116.399773
1.00000    0.944797    22.831603    0.044801
 2.769945  -1.309264   -144.868872

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -0.310212   -6.521194   -0.043419
-1.117448   0.351414    8.702231
0.25000   -0.310212   -6.521194   -0.043419
-1.117448   0.405554    16.833614
0.50000   -0.310212   -6.521194   -0.043419
-1.117448   0.459694    24.964998
0.75000   -0.310212   -6.521194   -0.043419
-1.117448   0.513834    33.096381
1.00000   -0.310212   -6.521194   -0.043419
-1.117448   0.567974    41.227764

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    0.080454    1.225115    0.015601
0.401917  -0.065512   -1.552024
0.25000    0.080454    1.225115    0.015601
0.401917  -0.084966   -3.079640
0.50000    0.080454    1.225115    0.015601
0.401917  -0.104419   -4.607257
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                      Page
<            UNEQUAL                SETTLEMENT          >
                                        91

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    0.080454    1.225115    0.015601
0.401917  -0.123872   -6.134873
1.00000    0.080454    1.225115    0.015601
0.401917  -0.143326   -7.662490

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    5.167982   -66.400452    0.523720
 2.040657   4.547575   -732.489740
0.25000    5.167982   -66.400452    0.523720
 2.040657   3.894539   -649.693932
0.50000    5.167982   -66.400452    0.523720
 2.040657   3.241504   -566.898124
0.75000    5.167982   -66.400452    0.523720
 2.040657   2.588469   -484.102317
1.00000    5.167982   -66.400452    0.523720
 2.040657   1.935433   -401.306509

LOAD   -2N+2- ------------------
```

REL DIST P V2 V3
T M2 M3
0.00000 -5.167982 66.400452 -0.523720
-2.040657 -4.547575 732.489740
0.25000 -5.167982 66.400452 -0.523720
-2.040657 -3.894539 649.693932
0.50000 -5.167982 66.400452 -0.523720
-2.040657 -3.241504 566.898124
0.75000 -5.167982 66.400452 -0.523720
-2.040657 -2.588469 484.102317
1.00000 -5.167982 66.400452 -0.523720
-2.040657 -1.935433 401.306509

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.311572 66.400452 0.523720
2.769945 4.547575 765.034242
0.25000 6.311572 66.400452 0.523720
2.769945 3.894539 712.235149
0.50000 6.311572 66.400452 0.523720
2.769945 3.241504 659.436056
0.75000 6.311572 66.400452 0.523720
2.769945 2.588469 606.636963
1.00000 6.311572 66.400452 0.523720
2.769945 1.935433 553.837870

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -6.193232 -66.400452 -0.584122
-5.212519 -4.547575 -732.489740
0.25000 -6.193232 -66.400452 -0.584122
-5.212519 -3.894539 -649.693932
0.50000 -6.193232 -66.400452 -0.584122
-5.212519 -3.241504 -566.898124
0.75000 -6.193232 -66.400452 -0.584122
-5.212519 -2.588469 -484.102317
1.00000 -6.193232 -66.400452 -0.584122
-5.212519 -1.935433 -401.306509

ELEM 14 ========== LENGTH = 4.988150

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 6.315048 -15.848855 0.117068
-0.101140 0.131368 -344.705835
0.25000 6.315048 -15.848855 0.117068
-0.101140 -0.014620 -324.941717
0.50000 6.315048 -15.848855 0.117068
-0.101140 -0.160609 -305.177600
0.75000 6.315048 -15.848855 0.117068
-0.101140 -0.306597 -285.413482
1.00000 6.315048 -15.848855 0.117068
-0.101140 -0.452586 -265.649364

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -5.723754 42.786355 -0.460498
-4.449926 -1.622281 553.929332
0.25000 -5.723754 42.786355 -0.460498
-4.449926 -1.048023 500.573138
0.50000 -5.723754 42.786355 -0.460498
-4.449926 -0.473765 447.216944
0.75000 -5.723754 42.786355 -0.460498
-4.449926 0.100494 393.860750
1.00000 -5.723754 42.786355 -0.460498
-4.449926 0.674752 340.504555

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.394490 -44.474213 0.331922
2.987231 2.588815 -97.923942
0.25000 -1.394490 -44.474213 0.331922
2.987231 1.974295 -42.462926
0.50000 -1.394490 -44.474213 0.331922
2.987231 1.760975 12.998090
0.75000 -1.394490 -44.474213 0.331922
2.987231 1.347055 68.459106
1.00000 -1.394490 -44.474213 0.331922
2.987231 0.933136 123.920122

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.060480 22.834468 0.038199
-2.118926 -1.565597 -144.863941
0.25000 1.060480 22.834468 0.038199
2.118926 -1.636233 -173.339381
0.50000 1.060480 22.834468 0.038199
2.118926 -1.683869 -201.814822
0.75000 1.060480 22.834468 0.038199
2.118926 -1.731505 -230.290263
1.00000 1.060480 22.834468 0.038199
2.118926 -1.779141 -258.765704

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.344898 -6.525679 -0.042813
-0.907179 0.651416 41.227653
0.25000 -0.344898 -6.525679 -0.042813
-0.907179 0.704805 49.365420
0.50000 -0.344898 -6.525679 -0.042813
-0.907179 0.758194 57.503186
0.75000 -0.344898 -6.525679 -0.042813
-0.907179 0.811584 65.640953
1.00000 -0.344898 -6.525679 -0.042813
-0.907179 0.864973 73.778720

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.087614 1.227923 0.016121
0.352089 -0.160720 -7.663267
0.25000 0.087614 1.227923 0.016121
0.352089 -0.180824 -9.194533
0.50000 0.087614 1.227923 0.016121
0.352089 -0.200927 -10.725799
0.75000 0.087614 1.227923 0.016121
0.352089 -0.221031 -12.257065
1.00000 0.087614 1.227923 0.016121
0.352089 -0.241134 -13.788330

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 4.575660 -66.848746 0.406178
1.978912 3.371599 -401.402124
0.25000 4.575660 -66.848746 0.406178
1.978912 2.865080 -318.039224
0.50000 4.575660 -66.848746 0.406178
1.978912 2.358561 -234.676323
0.75000 4.575660 -66.848746 0.406178
1.978912 1.852042 -151.313422
1.00000 4.575660 -66.848746 0.406178
1.978912 1.345523 -67.950521

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.575660 66.848746 -0.406178
-1.978912 -3.371599 401.402124
0.25000 -4.575660 66.848746 -0.406178
-1.978912 -2.865080 318.039224
0.50000 -4.575660 66.848746 -0.406178
-1.978912 -2.358561 234.676323
0.75000 -4.575660 66.848746 -0.406178
-1.978912 -1.852042 151.313422
1.00000 -4.575660 66.848746 -0.406178
-1.978912 -1.345523 67.950521

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.315048 66.848746 0.406178
2.987231 3.371599 553.929332
0.25000 6.315048 66.848746 0.406178
2.987231 2.865080 500.573138
0.50000 6.315048 66.848746 0.406178
2.987231 2.358561 447.216944
0.75000 6.315048 66.848746 0.406178
2.987231 1.852042 393.860750
1.00000 6.315048 66.848746 0.406178
2.987231 1.345523 340.504555

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.723754 -66.848746 -0.460498
-4.449926 -3.371599 -401.402124
0.25000 -5.723754 -66.848746 -0.460498
-4.449926 -2.865080 -324.941717
0.50000 -5.723754 -66.848746 -0.460498
-4.449926 -2.358561 -305.177600
0.75000 -5.723754 -66.848746 -0.460498
-4.449926 -1.852042 -285.413482
1.00000 -5.723754 -66.848746 -0.460498
-4.449926 -1.779141 -265.649364

ELEM 15 ========== LENGTH = 4.986699

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 6.272502 -16.000789 0.057219
-0.748881 -0.348318 -265.653361
0.25000 6.272502 -16.000789 0.057219
-0.748881 -0.419652 -245.705580
0.50000 6.272502 -16.000789 0.057219
-0.748881 -0.490986 -225.757799
0.75000 6.272502 -16.000789 0.057219
-0.748881 -0.562320 -205.810018
1.00000 6.272502 -16.000789 0.057219
-0.748881 -0.633654 -185.862237

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -5.183876 43.006809 -0.376235
-3.695599 -0.634088 340.603110
0.25000 -5.183876 43.006809 -0.376235
-3.695599 -0.165045 286.957604
0.50000 -5.183876 43.006809 -0.376235
-3.695599 0.303998 233.372098
0.75000 -5.183876 43.006809 -0.376235
-3.695599 0.773042 179.756593
1.00000 -5.183876 43.006809 -0.376235
-3.695599 1.242085 126.141087

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.956506 -44.491160 0.336001
3.608405 2.294502 123.822136
0.25000 -1.956506 -44.491160 0.336001
3.608405 1.875618 179.288145
0.50000 -1.956506 -44.491160 0.336001
3.608405 1.456734 234.754155
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
94

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -1.956506 -44.491160 0.336001
3.608405 1.037850 290.220164
1.00000 -1.956506 -44.491160 0.336001
3.608405 0.618966 345.686173

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.146277 22.771813 0.004416
1.143046 -1.986432 -258.761398
0.25000 1.146277 22.771813 0.004416
1.143046 -1.991937 -287.150444
0.50000 1.146277 22.771813 0.004416
1.143046 -1.997441 -315.539490
0.75000 1.146277 22.771813 0.004416
1.143046 -2.002946 -343.928536
1.00000 1.146277 22.771813 0.004416
1.143046 -2.008451 -372.317582

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.371457 -6.520442 -0.037582
-0.565954 0.928800 73.778578
0.25000 -0.371457 -6.520442 -0.037582
-0.565954 0.975652 81.907449
0.50000 -0.371457 -6.520442 -0.037582
-0.565954 1.022504 90.036319
0.75000 -0.371457 -6.520442 -0.037582
-0.565954 1.069356 98.165190
1.00000 -0.371457 -6.520442 -0.037582
-0.565954 1.116208 106.294060

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.093060 1.233769 0.016181
0.258983 -0.254464 -13.789065
0.25000 0.093060 1.233769 0.016181
0.258983 -0.274637 -15.327174
0.50000 0.093060 1.233769 0.016181
0.258983 -0.294809 -16.865283
0.75000 0.093060 1.233769 0.016181
0.258983 -0.314982 -18.403393
1.00000 0.093060 1.233769 0.016181
0.258983 -0.335154 -19.941502

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 3.944539 -67.012391 0.355639
2.293570 2.874984 -68.052647
0.25000 3.944539 -67.012391 0.355639
2.293570 2.431618 15.490014
0.50000 3.944539 -67.012391 0.355639
2.293570 1.988252 99.032675
0.75000 3.944539 -67.012391 0.355639
2.293570 1.544886 182.575336
1.00000 3.944539 -67.012391 0.355639
2.293570 1.101520 266.117997

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.944539 67.012391 -0.355639
-2.293570 -2.874984 68.052647
0.25000 -3.944539 67.012391 -0.355639
-2.293570 -2.431618 -15.490014
0.50000 -3.944539 67.012391 -0.355639
-2.293570 -1.988252 -99.032675
0.75000 -3.944539 67.012391 -0.355639
-2.293570 -1.544886 -182.575336
1.00000 -3.944539 67.012391 -0.355639
-2.293570 -1.101520 -266.117997

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.272502 67.012391 0.355639
3.608405 2.874984 340.603110
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
95

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 6.272502 67.012391 0.355639
3.608405 2.431618 286.987604
0.50000 6.272502 67.012391 0.355639
3.608405 1.988252 234.754155
0.75000 6.272502 67.012391 0.355639
3.608405 1.544886 290.220164
1.00000 6.272502 67.012391 0.355639
3.608405 1.242085 345.686173

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.183876 -67.012391 -0.376235
-3.695599 -2.874984 -265.653361
0.25000 -5.183876 -67.012391 -0.376235
-3.695599 -2.431618 -287.150444
0.50000 -5.183876 -67.012391 -0.376235
-3.695599 -1.997441 -315.539490
0.75000 -5.183876 -67.012391 -0.376235
-3.695599 -2.002946 -343.928536
1.00000 -5.183876 -67.012391 -0.376235
-3.695599 -2.008451 -372.317582

ELEM 16 ========== LENGTH = 4.988369

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 6.197285 -16.081515 0.024159
-1.297099 -0.450829 -185.868078
0.25000 6.197285 -16.081515 0.024159
-1.297099 -0.480958 -165.812945
0.50000 6.197285 -16.081515 0.024159
-1.297099 -0.511087 -145.757812
0.75000 6.197285 -16.081515 0.024159
-1.297099 -0.541216 -125.702679
1.00000 6.197285 -16.081515 0.024159
-1.297099 -0.571345 -105.647545

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.609650 43.005208 -0.360317
-3.123600 -0.149463 126.241554
0.25000 -4.609650 43.005208 -0.360317
-3.123600 0.299885 72.610089
0.50000 -4.609650 43.005208 -0.360317
-3.123600 0.749233 18.978624
0.75000 -4.609650 43.005208 -0.360317
-3.123600 1.198581 -34.652841
1.00000 -4.609650 43.005208 -0.360317
-3.123600 1.647929 -88.284306

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -2.482251 -44.281689 0.410284
4.458826 1.893523 345.589688
0.25000 -2.482251 -44.281689 0.410284
4.458826 1.381861 400.813043
0.50000 -2.482251 -44.281689 0.410284
4.458826 0.870199 456.036397
0.75000 -2.482251 -44.281689 0.410284
4.458826 0.358537 511.259752
1.00000 -2.482251 -44.281689 0.410284
4.458826 -0.153125 566.483107

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.183654 22.616999 -0.062398
-0.051738 -2.099505 -372.314966
0.25000 1.183654 22.616999 -0.062398
-0.051738 -2.021689 -400.520451
0.50000 1.183654 22.616999 -0.062398
-0.051738 -1.943873 -428.725937
0.75000 1.183654 22.616999 -0.062398
-0.051738 -1.866057 -456.931422
1.00000 1.183654 22.616999 -0.062398
-0.051738 -1.788241 -485.136908
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
96

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.384846 -6.505915 -0.027144
-0.096199 1.148364 106.293811
0.25000 -0.384846 -6.505915 -0.027144
-0.096199 1.182216 114.407288
0.50000 -0.384846 -6.505915 -0.027144
-0.096199 1.216067 122.520765
0.75000 -0.384846 -6.505915 -0.027144
-0.096199 1.249919 130.634242
1.00000 -0.384846 -6.505915 -0.027144
-0.096199 1.283770 138.747719

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.095808 1.246912 0.015416
0.109811 -0.342090 -19.942009
0.25000 0.095808 1.246912 0.015416
0.109811 -0.361314 -21.497023
0.50000 0.095808 1.246912 0.015416
0.109811 -0.380539 -23.052038
0.75000 0.095808 1.246912 0.015416
0.109811 -0.399763 -24.607053
1.00000 0.095808 1.246912 0.015416
0.109811 -0.418988 -26.162067

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 3.330188 -66.869119 0.407299
3.065528 2.591058 266.015420
0.25000 3.330188 -66.869119 0.407299
3.065528 2.083119 349.407385
0.50000 3.330188 -66.869119 0.407299
3.065528 1.575179 432.799350
0.75000 3.330188 -66.869119 0.407299
3.065528 1.067240 516.191315
1.00000 3.330188 -66.869119 0.407299
3.065528 0.559300 599.583280

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -3.330188 66.869119 -0.407299
-3.065528 -2.591058 -266.015420
0.25000 -3.330188 66.869119 -0.407299
-3.065528 -2.083119 -349.407385
0.50000 -3.330188 66.869119 -0.407299
-3.065528 -1.575179 -432.799350
0.75000 -3.330188 66.869119 -0.407299
-3.065528 -1.067240 -516.191315
1.00000 -3.330188 66.869119 -0.407299
-3.065528 -0.559300 -599.583280

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 6.197285 66.869119 0.410284
4.458826 2.591058 345.589688
0.25000 6.197285 66.869119 0.410284
4.458826 2.083119 400.813043
0.50000 6.197285 66.869119 0.410284
4.458826 1.575179 456.036397
0.75000 6.197285 66.869119 0.410284
4.458826 1.249919 516.191315
1.00000 6.197285 66.869119 0.410284
4.458826 1.647929 599.583280

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.609650 -66.869119 -0.407299
-3.123600 -2.591058 -372.314966
0.25000 -4.609650 -66.869119 -0.407299
-3.123600 -2.083119 -400.520451
0.50000 -4.609650 -66.869119 -0.407299
-3.123600 -1.943873 -432.799350
0.75000 -4.609650 -66.869119 -0.407299
-3.123600 -1.866057 -516.191315
1.00000 -4.609650 -66.869119 -0.407299
-3.123600 -1.788241 -599.583280
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
97

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 17 ========== LENGTH = 4.987214

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 6.102663 -16.121567 0.018181
-1.603231 -0.341664 -105.654334
0.25000 6.102663 -16.121567 0.018181
-1.603231 -0.364332 -85.553906
0.50000 6.102663 -16.121567 0.018181
-1.603231 -0.387000 -65.453478
0.75000 6.102663 -16.121567 0.018181
-1.603231 -0.409668 -45.353050
1.00000 6.102663 -16.121567 0.018181
-1.603231 -0.432337 -25.252622

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.035231 42.837996 -0.405427
-2.881802 0.256314 -88.186566
0.25000 -4.035231 42.837996 -0.405427
-2.881802 0.761803 -141.597134
0.50000 -4.035231 42.837996 -0.405427
-2.881802 1.267291 -195.007702
0.75000 -4.035231 42.837996 -0.405427
-2.881802 1.772779 -248.418271
1.00000 -4.035231 42.837996 -0.405427
-2.881802 2.278268 -301.828839

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -2.936567 -43.868946 0.528326
5.391619 0.949178 566.393465
0.25000 -2.936567 -43.868946 0.528326
5.391619 0.706499 621.089425
0.50000 -2.936567 -43.868946 0.528326
5.391619 -0.368260 675.785385
0.75000 -2.936567 -43.868946 0.528326
5.391619 -1.026978 730.481345
1.00000 -2.936567 -43.868946 0.528326
5.391619 -1.685697 785.177305

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.154423 22.371137 -0.139699
-1.284623 -1.719014 -485.137853
0.25000 1.154423 22.371137 -0.139699
-1.284623 -1.544838 -513.030267
0.50000 1.154423 22.371137 -0.139699
-1.284623 -1.370661 -540.922682
0.75000 1.154423 22.371137 -0.139699
-1.284623 -1.196485 -568.815096
1.00000 1.154423 22.371137 -0.139699
-1.284623 -1.022308 -596.707511

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.380148 -6.494499 -0.014342
0.489655 1.272350 138.747459
0.25000 -0.380148 -6.494499 -0.014342
0.489655 1.290231 146.844823
0.50000 -0.380148 -6.494499 -0.014342
0.489655 1.308112 154.942188
0.75000 -0.380148 -6.494499 -0.014342
0.489655 1.325993 163.039553
1.00000 -0.380148 -6.494499 -0.014342
0.489655 1.343874 171.136918

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.094859 1.275879 0.012961
-0.111618 -0.417163 -26.162171
0.25000 0.094859 1.275879 0.012961
-0.111618 -0.433323 -27.752941
0.50000 0.094859 1.275879 0.012961
-0.111618 -0.449482 -29.343711
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
98

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 0.094859 1.275879 0.012961
-0.111618 -0.465641 -30.934481
1.00000 0.094859 1.275879 0.012961
-0.111618 -0.481801 -32.525251

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3

```
 0.00000     2.785948   -66.485012     0.532165
 4.278043    1.879864   599.486590
 0.25000     2.785948   -66.485012     0.532165
 4.278043    1.216358   682.380343
 0.50000     2.785948   -66.485012     0.532165
 4.278043    0.552852   765.274095
 0.75000     2.785948   -66.485012     0.532165
 4.278043   -0.110654   848.167848
 1.00000     2.785948   -66.485012     0.532165
 4.278043   -0.774159   931.061601

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -2.785948   66.485012   -0.532165
-4.278043   -1.879864  -599.486590
 0.25000    -2.785948   66.485012   -0.532165
-4.278043   -1.216358  -682.380343
 0.50000    -2.785948   66.485012   -0.532165
-4.278043   -0.552852  -765.274095
 0.75000    -2.785948   66.485012   -0.532165
-4.278043    0.110654  -848.167848
 1.00000    -2.785948   66.485012   -0.532165
-4.278043    0.774159  -931.061601

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     6.102663   66.485012     0.532165
 5.391619    1.879864   599.486590
 0.25000     6.102663   66.485012     0.532165
 5.391619    1.290231   682.380343
 0.50000     6.102663   66.485012     0.532165
 5.391619    1.308112   765.274095
 0.75000     6.102663   66.485012     0.532165
 5.391619    1.772779   848.167848
 1.00000     6.102663   66.485012     0.532165
 5.391619    2.278268   931.061601

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -4.035231   -66.485012   -0.532165
-4.278043   -1.879864   -599.486590
 0.25000    -4.035231   -66.485012   -0.532165
-4.278043   -1.544838   -682.380343
 0.50000    -4.035231   -66.485012   -0.532165
-4.278043   -1.370661   -765.274095
 0.75000    -4.035231   -66.485012   -0.532165
-4.278043   -1.196485   -848.167848
 1.00000    -4.035231   -66.485012   -0.532165
-4.278043   -1.685697   -931.061601

ELEM       18 ================== LENGTH
=     4.988092

LOAD     -A1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     6.002637   -16.154741     0.016891
-1.609864   -0.189317   -25.258768
 0.25000     6.002637   -16.154741     0.016891
-1.609864   -0.103380   -5.113435
 0.50000     6.002637   -16.154741     0.016891
-1.609864   -0.231443    15.031897
 0.75000     6.002637   -16.154741     0.016891
-1.609864   -0.252505    35.177229
 1.00000     6.002637   -16.154741     0.016891
-1.609864   -0.273568    55.322562
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      99

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -3.495174   42.381962   -0.384898
-2.798009    0.968365  -301.735536
 0.25000    -3.495174   42.381962   -0.384898
-2.798009    1.448342  -354.586815
 0.50000    -3.495174   42.381962   -0.384898
-2.798009    1.928319  -407.438095
 0.75000    -3.495174   42.381962   -0.384898
-2.798009    2.408296  -460.289375
 1.00000    -3.495174   42.381962   -0.384898
-2.798009    2.888273  -513.140655

LOAD     -P2 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -3.290353   -42.892544     0.509611
 5.927640   -0.824403   785.096031
 0.25000    -3.290353   -42.892544     0.509611
 5.927640   -1.459900   838.584019
 0.50000    -3.290353   -42.892544     0.509611
 5.927640   -2.095397   892.072006
 0.75000    -3.290353   -42.892544     0.509611
 5.927640   -2.730894   945.559994
 1.00000    -3.290353   -42.892544     0.509611
 5.927640   -3.366391   999.047981

LOAD     -P3 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     1.047948   21.777367   -0.141274
-2.255874   -0.767222  -596.713429
 0.25000     1.047948   21.777367   -0.141274
-2.255874   -0.591050  -623.870305
 0.50000     1.047948   21.777367   -0.141274
-2.255874   -0.414879  -651.027181
 0.75000     1.047948   21.777367   -0.141274
-2.255874   -0.238707  -678.184057
 1.00000     1.047948   21.777367   -0.141274
-2.255874   -0.062536  -705.340933

LOAD     -P4 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -0.354615   -6.431709   -0.009180
 1.162071    1.293721   171.136281
 0.25000    -0.354615   -6.431709   -0.009180
 1.162071    1.293721   179.156769
 0.50000    -0.354615   -6.431709   -0.009180
 1.162071    1.305169   187.177258
 0.75000    -0.354615   -6.431709   -0.009180
 1.162071    1.316617   195.197747
 1.00000    -0.354615   -6.431709   -0.009180
 1.162071    1.328065   203.218236

LOAD     -P5 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     0.089558    1.319665    0.008850
-0.425963   -0.469696  -32.524579
 0.25000     0.089558    1.319665    0.008850
-0.425963   -0.480733  -34.170232
 0.50000     0.089558    1.319665    0.008850
-0.425963   -0.491769  -35.815885
 0.75000     0.089558    1.319665    0.008850
-0.425963   -0.502806  -37.461538
 1.00000     0.089558    1.319665    0.008850
-0.425963   -0.513842  -39.107191

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     2.357668   -65.478994     0.517322
 5.479847    0.268553   930.973544
 0.25000     2.357668   -65.478994     0.517322
 5.479847   -0.376559   1012.627
 0.50000     2.357668   -65.478994     0.517322
 5.479847   -1.021671   1094.281
 0.75000     2.357668   -65.478994     0.517322
 5.479847   -1.666783   1175.935
 1.00000     2.357668   -65.478994     0.517322
 5.479847   -2.311895   1257.589
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     100

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -2.357668   65.478994   -0.517322
-5.479847   -0.268553  -930.973544
 0.25000    -2.357668   65.478994   -0.517322
-5.479847    0.376559   -1012.627
 0.50000    -2.357668   65.478994   -0.517322
-5.479847    1.021671   -1094.281
 0.75000    -2.357668   65.478994   -0.517322
-5.479847    1.666783   -1175.935
 1.00000    -2.357668   65.478994   -0.517322
-5.479847    2.311895   -1257.589

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     6.002637   65.478994     0.517322
 5.927640    1.282273   930.973544
 0.25000     6.002637   65.478994     0.517322
 5.927640    1.448342   1012.627
 0.50000     6.002637   65.478994     0.517322
 5.927640    1.928319   1094.281
 0.75000     6.002637   65.478994     0.517322
 5.927640    2.408296   1175.935
 1.00000     6.002637   65.478994     0.517322
 5.927640    2.888273   1257.589

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -3.495174   -65.478994   -0.517322
-5.479847   -0.824403  -930.973544
 0.25000    -3.495174   -65.478994   -0.517322
-5.479847   -1.459900   -1012.627
 0.50000    -3.495174   -65.478994   -0.517322
-5.479847   -2.095397   -1094.281
 0.75000    -3.495174   -65.478994   -0.517322
-5.479847   -2.730894   -1175.935
 1.00000    -3.495174   -65.478994   -0.517322
-5.479847   -3.366391   -1257.589

ELEM       19 ================== LENGTH
=     4.987142

LOAD     -A1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     5.908665   -16.166482     0.001870
-1.300265   -0.044836   55.316154
 0.25000     5.908665   -16.166482     0.001870
-1.300265   -0.047167   75.472289
 0.50000     5.908665   -16.166482     0.001870
-1.300265   -0.049498   95.628425
 0.75000     5.908665   -16.166482     0.001870
-1.300265   -0.051829   115.784561
 1.00000     5.908665   -16.166482     0.001870
-1.300265   -0.054161   135.940697

LOAD     -P1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -3.014697   41.618225   -0.124295
-2.674564    1.723046  -513.057277
 0.25000    -3.014697   41.618225   -0.124295
-2.674564    1.878016  -564.946276
 0.50000    -3.014697   41.618225   -0.124295
-2.674564    2.032986  -616.835275
 0.75000    -3.014697   41.618225   -0.124295
-2.674564    2.187955  -668.724273
 1.00000    -3.014697   41.618225   -0.124295
-2.674564    2.342925  -720.613272

LOAD     -P2 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -3.524525   -41.372924     0.038721
 5.581678   -2.796484   998.985199
 0.25000    -3.524525   -41.372924     0.038721
 5.581678   -2.844760   1050.568
 0.50000    -3.524525   -41.372924     0.038721
 5.581678   -2.893036   1102.152
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     101

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
 0.75000    -3.524525   -41.372924     0.038721
 5.581678   -2.941312   1153.735
 1.00000    -3.524525   -41.372924     0.038721
 5.581678   -2.989589   1205.318

LOAD     -P3 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     0.857706   20.882129     0.108984
-2.651940    0.396696  -705.356221
 0.25000     0.857706   20.882129     0.108984
-2.651940    0.260816  -731.391757
 0.50000     0.857706   20.882129     0.108984
-2.651940    0.124936  -757.427293
 0.75000     0.857706   20.882129     0.108984
-2.651940   -0.010944  -783.462829
 1.00000     0.857706   20.882129     0.108984
-2.651940   -0.146823  -809.498365

LOAD     -P4 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -0.306439   -6.352550   -0.030690
 1.889135    1.211635   203.217576
 0.25000    -0.306439   -6.352550   -0.030690
 1.889135    1.249899   211.137843
 0.50000    -0.306439   -6.352550   -0.030690
 1.889135    1.288164   219.058111
 0.75000    -0.306439   -6.352550   -0.030690
 1.889135    1.326428   226.978378
 1.00000    -0.306439   -6.352550   -0.030690
 1.889135    1.364693   234.898646

LOAD     -P5 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     0.079289    1.391603    0.005411
-0.844044   -0.490058  -39.105430
 0.25000     0.079289    1.391603    0.005411
-0.844044   -0.496805  -40.840460
 0.50000     0.079289    1.391603    0.005411
-0.844044   -0.503552  -42.575490
 0.75000     0.079289    1.391603    0.005411
-0.844044   -0.510298  -44.310519
 1.00000     0.079289    1.391603    0.005411
-0.844044   -0.517045  -46.045549

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     2.077701   -63.891957     0.009900
 6.170548   -1.629684   1257.519
 0.25000     2.077701   -63.891957     0.009900
 6.170548   -1.642027   1337.178
 0.50000     2.077701   -63.891957     0.009900
 6.170548   -1.654370   1416.838
 0.75000     2.077701   -63.891957     0.009900
 6.170548   -1.666714   1496.498
 1.00000     2.077701   -63.891957     0.009900
 6.170548   -1.679057   1576.157

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -2.077701   63.891957   -0.009900
-6.170548    1.629684  -1257.519
 0.25000    -2.077701   63.891957   -0.009900
-6.170548    1.642027  -1337.178
 0.50000    -2.077701   63.891957   -0.009900
-6.170548    1.654370  -1416.838
 0.75000    -2.077701   63.891957   -0.009900
-6.170548    1.666714  -1496.498
 1.00000    -2.077701   63.891957   -0.009900
-6.170548    1.679057  -1576.157

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     5.908665   63.891957     0.108984
 6.170548    1.823046   1257.519
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     102

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
     T          M2          M3
 0.25000     5.908665   63.891957     0.108984
 6.170548    1.870016   1337.178
 0.50000     5.908665   63.891957     0.108984
 6.170548    2.032986   1416.838
 0.75000     5.908665   63.891957     0.108984
 6.170548    2.187955   1496.498
 1.00000     5.908665   63.891957     0.108984
 6.170548    2.342925   1576.157

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -3.524525   -63.891957   -0.124295
-6.170548   -2.796484   1257.519
 0.25000    -3.524525   -63.891957   -0.124295
-6.170548   -2.844760   -1337.178
 0.50000    -3.524525   -63.891957   -0.124295
-6.170548   -2.893036   -1416.838
 0.75000    -3.524525   -63.891957   -0.124295
-6.170548   -2.941312   -1496.498
 1.00000    -3.524525   -63.891957   -0.124295
-6.170548   -2.989589   -1576.157

ELEM       20 ================== LENGTH
=     3.491733

LOAD     -A1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     5.823356   -16.127004   -0.059839
-0.897113    0.150106   135.932777
 0.25000     5.823356   -16.127004   -0.059839
-0.897113    0.202341   150.010576
 0.50000     5.823356   -16.127004   -0.059839
-0.897113    0.254577   164.088374
 0.75000     5.823356   -16.127004   -0.059839
-0.897113    0.306812   178.166173
 1.00000     5.823356   -16.127004   -0.059839
-0.897113    0.359047   192.243971

LOAD     -P1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -2.582085   40.530602     0.600071
-1.955226    1.314333  -720.540592
 0.25000    -2.582085   40.530602     0.600071
-1.955226    0.798511  -755.921103
 0.50000    -2.582085   40.530602     0.600071
-1.955226    0.266689  -791.301615
 0.75000    -2.582085   40.530602     0.600071
-1.955226   -0.257133  -826.682126
 1.00000    -2.582085   40.530602     0.600071
-1.955226   -0.780954  -862.062637

LOAD     -P2 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -3.633406   -39.285190   -1.202832
 3.510565    1.734456   1239.281
 0.25000    -3.633406   -39.285190   -1.202832
 3.510565    1.684464   1239.574
 0.50000    -3.633406   -39.285190   -1.202832
 3.510565   -0.634472   1273.868
 0.75000    -3.633406   -39.285190   -1.202832
 3.510565    0.415521   1308.161
 1.00000    -3.633406   -39.285190   -1.202832
 3.510565    1.465513   1342.454

LOAD     -P3 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     0.558252   19.659220    0.741622
-1.870119    0.569182  -809.530139
 0.25000     0.558252   19.659220    0.741622
-1.870119   -0.076205  -826.691326
 0.50000     0.558252   19.659220    0.741622
-1.870119   -0.725591  -843.852513
 0.75000     0.558252   19.659220    0.741622
-1.870119   -1.372978  -861.013700
 1.00000     0.558252   19.659220    0.741622
-1.870119   -2.020365  -878.174888
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     103

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -0.228637   -6.240112   -0.089037
 2.451322    1.179198   234.900903
 0.25000    -0.228637   -6.240112   -0.089037
 2.451322    1.256921   240.348105
 0.50000    -0.228637   -6.240112   -0.089037
 2.451322    1.334644   245.795306
 0.75000    -0.228637   -6.240112   -0.089037
 2.451322    1.412367   251.242508
 1.00000    -0.228637   -6.240112   -0.089037
 2.451322    1.490090   256.689710

LOAD     -P5 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     0.062520    1.462485    0.010014
-1.239429   -0.478363  -46.043821
 0.25000     0.062520    1.462485    0.010014
-1.239429   -0.487105  -47.320473
 0.50000     0.062520    1.462485    0.010014
-1.239429   -0.495847  -48.597124
 0.75000     0.062520    1.462485    0.010014
-1.239429   -0.504589  -49.873776
 1.00000     0.062520    1.462485    0.010014
-1.239429   -0.513331  -51.150427

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     1.961313   -61.652307   -1.351707
 5.064774   -1.405151   1576.115
 0.25000     1.961313   -61.652307   -1.351707
 5.064774   -0.225201   1629.933
 0.50000     1.961313   -61.652307   -1.351707
 5.064774    0.954749   1683.751
 0.75000     1.961313   -61.652307   -1.351707
 5.064774    2.134699   1737.570
 1.00000     1.961313   -61.652307   -1.351707
 5.064774    3.314650   1791.388

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -1.961313   61.652307    1.351707
-5.064774    1.405151   -1576.115
 0.25000    -1.961313   61.652307    1.351707
-5.064774    0.225201   -1629.933
 0.50000    -1.961313   61.652307    1.351707
-5.064774   -0.954749   -1683.751
 0.75000    -1.961313   61.652307    1.351707
-5.064774   -2.134699   -1737.570
 1.00000    -1.961313   61.652307    1.351707
-5.064774   -3.314650   -1791.388

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     5.823356   61.652307    1.351707
 5.064774    1.405151   1576.115
 0.25000     5.823356   61.652307    1.351707
 5.064774    1.256921   1629.933
 0.50000     5.823356   61.652307    1.351707
 5.064774    1.334644   1683.751
 0.75000     5.823356   61.652307    1.351707
 5.064774    2.134699   1737.570
 1.00000     5.823356   61.652307    1.351707
 5.064774    3.314650   1791.388

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -3.633406   -61.652307   -1.351707
-5.064774   -2.134456   -1576.115
 0.25000    -3.633406   -61.652307   -1.351707
-5.064774   -1.684464   -1629.933
 0.50000    -3.633406   -61.652307   -1.351707
-5.064774   -0.954749   -1683.751
 0.75000    -3.633406   -61.652307   -1.351707
-5.064774   -2.134699   -1737.570
 1.00000    -3.633406   -61.652307   -1.351707
-5.064774   -3.314650   -1791.388
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     104

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       21 ================== LENGTH
=     3.491348

LOAD     -A1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -0.342142    4.215344    0.062777
-0.844158    0.536705   184.928054
 0.25000    -0.342142    4.215344    0.062777
-0.844158    0.481912   181.248746
 0.50000    -0.342142    4.215344    0.062777
-0.844158    0.427118   177.569438
 0.75000    -0.342142    4.215344    0.062777
-0.844158    0.372324   173.890130
 1.00000    -0.342142    4.215344    0.062777
-0.844158    0.317530   170.210822

LOAD     -P1 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     1.448786   -19.097811   -0.737016
 1.600765   -1.701494  -857.639681
 0.25000     1.448786   -19.097811   -0.737016
 1.600765   -1.058200  -840.970407
 0.50000     1.448786   -19.097811   -0.737016
 1.600765   -0.414905  -824.301132
 0.75000     1.448786   -19.097811   -0.737016
 1.600765    0.228389  -807.631857
 1.00000     1.448786   -19.097811   -0.737016
 1.600765    0.871684  -790.962583

LOAD     -P2 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -4.080128   38.795275    1.193453
-3.696290    1.480750   1341.925
 0.25000    -4.080128   38.795275    1.193453
-3.696290    0.439060   1308.063
 0.50000    -4.080128   38.795275    1.193453
-3.696290   -0.602629   1274.201
 0.75000    -4.080128   38.795275    1.193453
-3.696290   -1.644319   1240.339
 1.00000    -4.080128   38.795275    1.193453
-3.696290   -2.686008   1206.477

LOAD     -P3 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -1.576287   -41.047041   -0.620837
 1.691988   -1.103098  -880.322156
 0.25000    -1.576287   -41.047041   -0.620837
 1.691988   -0.561208  -844.494782
 0.50000    -1.576287   -41.047041   -0.620837
 1.691988   -0.019318  -808.667408
 0.75000    -1.576287   -41.047041   -0.620837
 1.691988    0.522572  -772.840034
 1.00000    -1.576287   -41.047041   -0.620837
 1.691988    1.064462  -737.012661

LOAD     -P4 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000    -0.988343   20.728697    0.151911
 2.534566    1.249651   255.660019
 0.25000    -0.988343   20.728697    0.151911
 2.534566    1.117057   237.567247
 0.50000    -0.988343   20.728697    0.151911
 2.534566    0.984463   219.474475
 0.75000    -0.988343   20.728697    0.151911
 2.534566    0.851869   201.381703
 1.00000    -0.988343   20.728697    0.151911
 2.534566    0.719275   183.288931

LOAD     -P5 ------------------

REL DIST          P          V2          V3
     T          M2          M3
 0.00000     5.538113   -3.594463   -0.050287
-1.286871   -0.462514   -44.551310
 0.25000     5.538113   -3.594463   -0.050287
-1.286871   -0.418621   -41.413930
 0.50000     5.538113   -3.594463   -0.050287
-1.286871   -0.374728   -38.276549
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     105

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S
```

```
REL DIST          P          V2          V3
         T         M2         M3
0.75000    5.538113   -3.594463   -0.050287
-1.286871   -0.330836   -35.139169
1.00000    5.538113   -3.594463   -0.050287
-1.286871   -0.286943   -32.001789

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.410612   63.739315    1.408141
-2.005882    3.267106    1782.513
0.25000   -5.410612   63.739315    1.408141
-2.005882    2.038029    1726.879
0.50000   -5.410612   63.739315    1.408141
-2.005882    0.808952    1671.245
0.75000   -5.410612   63.739315    1.408141
-2.005882   -0.420126    1615.611
1.00000   -5.410612   63.739315    1.408141
-2.005882   -1.649203    1559.977

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.410612  -63.739315   -1.408141
 2.005882   -3.267106   -1782.513
0.25000    5.410612  -63.739315   -1.408141
 2.005882   -2.038029   -1726.879
0.50000    5.410612  -63.739315   -1.408141
 2.005882   -0.808952   -1671.245
0.75000    5.410612  -63.739315   -1.408141
 2.005882    0.420126   -1615.611
1.00000    5.410612  -63.739315   -1.408141
 2.005882    1.649203   -1559.977

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.538113   63.739315    1.408141
 2.534566   3.267106   1782.513
0.25000    5.538113   63.739315    1.408141
 2.534566   2.038029   1726.879
0.50000    5.538113   63.739315    1.408141
 2.534566   0.984463   1671.245
0.75000    5.538113   63.739315    1.408141
 2.534566   0.851869   1615.611
1.00000    5.538113   63.739315    1.408141
 2.534566   1.649203   1559.977

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.410612  -63.739315   -1.408141
-3.696290   -3.267106   -1782.513
0.25000   -5.410612  -63.739315   -1.408141
-3.696290   -2.038029   -1726.879
0.50000   -5.410612  -63.739315   -1.408141
-3.696290   -0.808952   -1671.245
0.75000   -5.410612  -63.739315   -1.408141
-3.696290   -1.644319   -1615.611
1.00000   -5.410612  -63.739315   -1.408141
-3.696290   -2.686008   -1559.977

ELEM       22 ================== LENGTH
=    4.987373

LOAD      -A1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.399623    4.418686    0.013683
-0.753706    0.456077    170.206167
0.25000   -0.399623    4.418686    0.013683
-0.753706    0.439016    164.696759
0.50000   -0.399623    4.418686    0.013683
-0.753706    0.421955    159.187351
0.75000   -0.399623    4.418686    0.013683
-0.753706    0.404894    153.677943
1.00000   -0.399623    4.418686    0.013683
-0.753706    0.387833    148.168535
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                              106

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.750715   -20.339527   -0.099675
 2.256227    0.148820   -790.928814
0.25000    1.750715   -20.339527   -0.099675
 2.256227    0.273099   -765.568614
0.50000    1.750715   -20.339527   -0.099675
 2.256227    0.397379   -740.208414
0.75000    1.750715   -20.339527   -0.099675
 2.256227    0.521659   -714.848215
1.00000    1.750715   -20.339527   -0.099675
 2.256227    0.645938   -689.488015

LOAD      -P2 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -3.983220   40.903810   -0.044002
-5.429558   -2.911449    1206.512
0.25000   -3.983220   40.903810   -0.044002
-5.429558   -2.856585    1155.512
0.50000   -3.983220   40.903810   -0.044002
-5.429558   -2.801721    1104.511
0.75000   -3.983220   40.903810   -0.044002
-5.429558   -2.746857    1053.511
1.00000   -3.983220   40.903810   -0.044002
-5.429558   -2.691993    1002.510

LOAD      -P3 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -2.008436   -42.191902    0.096775
 2.274881    2.090867   -737.083763
0.25000   -2.008436   -42.191902    0.096775
 2.274881    1.970203   -684.477080
0.50000   -2.008436   -42.191902    0.096775
 2.274881    1.849540   -631.870397
0.75000   -2.008436   -42.191902    0.096775
 2.274881    1.728876   -579.263714
1.00000   -2.008436   -42.191902    0.096775
 2.274881    1.608212   -526.657031

LOAD      -P4 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.875803   20.909501    0.075473
 2.747339    0.452696   183.293641
0.25000   -0.875803   20.909501    0.075473
 2.747339    0.358593   157.222772
0.50000   -0.875803   20.909501    0.075473
 2.747339    0.264489   131.151904
0.75000   -0.875803   20.909501    0.075473
 2.747339    0.170386   105.081036
1.00000   -0.875803   20.909501    0.075473
 2.747339    0.076283   79.010168

LOAD      -P5 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.516367   -3.700569   -0.042254
-1.095184   -0.123711   -1.099725
0.25000    5.516367   -3.700569   -0.042254
-1.095184   -0.184326   -27.385696
0.50000    5.516367   -3.700569   -0.042254
-1.095184   -0.131642   -22.771667
0.75000    5.516367   -3.700569   -0.042254
-1.095184   -0.078958   -18.157638
1.00000    5.516367   -3.700569   -0.042254
-1.095184   -0.026274   -13.543609

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.258646   66.231998    0.045154
-3.435925   -2.002676    1560.012
0.25000   -5.258646   66.231998    0.045154
-3.435925   -2.058976    1477.431
0.50000   -5.258646   66.231998    0.045154
-3.435925   -2.115276    1394.850
0.75000   -5.258646   66.231998    0.045154
-3.435925   -2.171577    1312.270
1.00000   -5.258646   66.231998    0.045154
-3.435925   -2.227877    1229.689
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                              107

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.258646  -66.231998   -0.045154
 3.435925    2.002676   -1560.012
0.25000    5.258646  -66.231998   -0.045154
 3.435925    2.058976   -1477.431
0.50000    5.258646  -66.231998   -0.045154
 3.435925    2.115276   -1394.850
0.75000    5.258646  -66.231998   -0.045154
 3.435925    2.171577   -1312.270
1.00000    5.258646  -66.231998   -0.045154
 3.435925    2.227877   -1229.689

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.516367   66.231998    0.096775
 3.435925    2.090867   1560.012
0.25000    5.516367   66.231998    0.096775
 3.435925    2.058976   1477.431
0.50000    5.516367   66.231998    0.096775
 3.435925    2.115276   1394.850
0.75000    5.516367   66.231998    0.096775
 3.435925    2.171577   1312.270
1.00000    5.516367   66.231998    0.096775
 3.435925    2.227877   1229.689

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.258646  -66.231998   -0.099675
-5.429558   -2.911449   -1560.012
0.25000   -5.258646  -66.231998   -0.099675
-5.429558   -2.856585   -1477.431
0.50000   -5.258646  -66.231998   -0.099675
-5.429558   -2.801721   -1394.850
0.75000   -5.258646  -66.231998   -0.099675
-5.429558   -2.746857   -1312.270
1.00000   -5.258646  -66.231998   -0.099675
-5.429558   -2.691993   -1229.689

ELEM       23 ================== LENGTH
=    4.987867

LOAD      -A1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.436131    4.588131   -0.009615
-0.605892    0.477172   148.166541
0.25000   -0.436131    4.588131   -0.009615
-0.605892    0.489162   142.445295
0.50000   -0.436131    4.588131   -0.009615
-0.605892    0.501151   136.724048
0.75000   -0.436131    4.588131   -0.009615
-0.605892    0.513140   131.002802
1.00000   -0.436131    4.588131   -0.009615
-0.605892    0.525129   125.281556

LOAD      -P1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.946159   -21.254968    0.152567
 2.133749    0.174097   -689.470800
0.25000    1.946159   -21.254968    0.152567
 2.133749   -0.016150   -662.966561
0.50000    1.946159   -21.254968    0.152567
 2.133749   -0.206396   -636.462323
0.75000    1.946159   -21.254968    0.152567
 2.133749   -0.396643   -609.958084
1.00000    1.946159   -21.254968    0.152567
 2.133749   -0.586889   -583.453845

LOAD      -P2 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -3.760650   42.438310   -0.517914
-5.990156   -3.233852    1002.571
0.25000   -3.760650   42.438310   -0.517914
-5.990156   -2.588030    949.651502
0.50000   -3.760650   42.438310   -0.517914
-5.990156   -1.942208    896.732340
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                              108

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.75000   -3.760650   42.438310   -0.517914
-5.990156   -1.296385   843.813178
1.00000   -3.760650   42.438310   -0.517914
-5.990156   -0.650563   790.894015

LOAD      -P3 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -2.489584   -43.000485    0.359318
 2.564673    2.774405   -526.738912
0.25000   -2.489584   -43.000485    0.359318
 2.564673    2.326347   -473.118736
0.50000   -2.489584   -43.000485    0.359318
 2.564673    1.878289   -419.498560
0.75000   -2.489584   -43.000485    0.359318
 2.564673    1.430231   -365.878384
1.00000   -2.489584   -43.000485    0.359318
 2.564673    0.982174   -312.258208

LOAD      -P4 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.756207   21.026971    0.051544
 2.747764   -0.212099   79.014268
0.25000   -0.756207   21.026971    0.051544
 2.747764   -0.276373   52.794334
0.50000   -0.756207   21.026971    0.051544
 2.747764   -0.340646   26.574400
0.75000   -0.756207   21.026971    0.051544
 2.747764   -0.404920    0.354467
1.00000   -0.756207   21.026971    0.051544
 2.747764   -0.469194   -25.865467

LOAD      -P5 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.496413   -3.797958   -0.035901
-0.850137    0.020277   -13.541761
0.25000    5.496413   -3.797958   -0.035901
-0.850137    0.065043   -8.805834
0.50000    5.496413   -3.797958   -0.035901
-0.850137    0.109810   -4.069906
0.75000    5.496413   -3.797958   -0.035901
-0.850137    0.154577    0.666022
1.00000    5.496413   -3.797958   -0.035901
-0.850137    0.199344    5.401949

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.952989   68.053411   -0.475985
-3.848284   -2.968778    1229.751
0.25000   -4.952989   68.053411   -0.475985
-3.848284   -2.375241    1144.891
0.50000   -4.952989   68.053411   -0.475985
-3.848284   -1.781703    1060.031
0.75000   -4.952989   68.053411   -0.475985
-3.848284   -1.188165   975.170446
1.00000   -4.952989   68.053411   -0.475985
-3.848284   -0.594628   890.310104

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.952989  -68.053411    0.475985
 3.848284   2.968778   -1229.751
0.25000    4.952989  -68.053411    0.475985
 3.848284   2.375241   -1144.891
0.50000    4.952989  -68.053411    0.475985
 3.848284   1.781703   -1060.031
0.75000    4.952989  -68.053411    0.475985
 3.848284   1.188165   -975.170446
1.00000    4.952989  -68.053411    0.475985
 3.848284   0.594628   -890.310104

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.496413   68.053411    0.475985
 3.848284   2.968778   1229.751
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                              109

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.25000    5.496413   68.053411    0.475985
 3.848284   2.375241   1144.891
0.50000    5.496413   68.053411    0.475985
 3.848284   1.781703   1060.031
0.75000    5.496413   68.053411    0.475985
 3.848284   1.430231   975.170446
1.00000    5.496413   68.053411    0.475985
 3.848284   0.982174   890.310104

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.952989  -68.053411   -0.517914
-5.990156   -3.233852   -1229.751
0.25000   -4.952989  -68.053411   -0.517914
-5.990156   -2.588030   -1144.891
0.50000   -4.952989  -68.053411   -0.517914
-5.990156   -1.942208   -1060.031
0.75000   -4.952989  -68.053411   -0.517914
-5.990156   -1.296385   -975.170446
1.00000   -4.952989  -68.053411   -0.517914
-5.990156   -0.650563   -890.310104

ELEM       24 ================== LENGTH
=    4.987464

LOAD      -A1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.456661    4.705878   -0.008804
-0.374299    0.575411    125.281004
0.25000   -0.456661    4.705878   -0.008804
-0.374299    0.586389    119.413405
0.50000   -0.456661    4.705878   -0.008804
-0.374299    0.597367    113.545806
0.75000   -0.456661    4.705878   -0.008804
-0.374299    0.608344    107.678207
1.00000   -0.456661    4.705878   -0.008804
-0.374299    0.619322    101.810608

LOAD      -P1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.059860   -21.868420    0.152410
 1.402356   -0.859657   -583.446392
0.25000    2.059860   -21.868420    0.152410
 1.402356   -1.049692   -556.179405
0.50000    2.059860   -21.868420    0.152410
 1.402356   -1.239727   -528.912418
0.75000    2.059860   -21.868420    0.152410
 1.402356   -1.429762   -501.645432
1.00000    2.059860   -21.868420    0.152410
 1.402356   -1.619797   -474.378445

LOAD      -P2 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -3.418053   43.419819   -0.540812
-5.584391   -1.484410   790.972939
0.25000   -3.418053   43.419819   -0.540812
-5.584391   -1.811090   736.834248
0.50000   -3.418053   43.419819   -0.540812
-5.584391   -0.135769   682.695556
0.75000   -3.418053   43.419819   -0.540812
-5.584391    0.538551   628.556864
1.00000   -3.418053   43.419819   -0.540812
-5.584391    1.212872   574.418173

LOAD      -P3 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -3.031130   -43.471817    0.381801
 2.706554    2.294900   -312.349393
0.25000   -3.031130   -43.471817    0.381801
 2.706554    1.818845   -258.146466
0.50000   -3.031130   -43.471817    0.381801
 2.706554    1.342791   -203.942939
0.75000   -3.031130   -43.471817    0.381801
 2.706554    0.866736   -149.739413
1.00000   -3.031130   -43.471817    0.381801
 2.706554    0.390681   -95.535886
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                              110

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.632954   21.072174    0.048996
 2.475028   -0.766413   -25.860758
0.25000   -0.632954   21.072174    0.048996
 2.475028   -0.827505   -52.134934
0.50000   -0.632954   21.072174    0.048996
 2.475028   -0.888597   -78.409109
0.75000   -0.632954   21.072174    0.048996
 2.475028   -0.949689   -104.683284
1.00000   -0.632954   21.072174    0.048996
 2.475028   -1.010781   -130.957459

LOAD      -P5 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.478938   -3.857634   -0.033591
-0.625249    0.240169    5.403199
0.25000    5.478938   -3.857634   -0.033591
-0.625249    0.282053    10.213152
0.50000    5.478938   -3.857634   -0.033591
-0.625249    0.323936    15.023105
0.75000    5.478938   -3.857634   -0.033591
-0.625249    0.365820    19.833057
1.00000    5.478938   -3.857634   -0.033591
-0.625249    0.407704    24.643010

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.507668   69.197871   -0.500620
-3.483662   -1.675412   890.393185
0.25000   -4.507668   69.197871   -0.500620
-3.483662   -1.051206   804.112719
0.50000   -4.507668   69.197871   -0.500620
-3.483662   -0.427000   717.832253
0.75000   -4.507668   69.197871   -0.500620
-3.483662    0.197206   631.551787
1.00000   -4.507668   69.197871   -0.500620
-3.483662    0.821412   545.271321

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.507668  -69.197871    0.500620
 3.483662   1.675412   -890.393185
0.25000    4.507668  -69.197871    0.500620
 3.483662   1.051206   -804.112719
0.50000    4.507668  -69.197871    0.500620
 3.483662   0.427000   -717.832253
0.75000    4.507668  -69.197871    0.500620
 3.483662  -0.197206   -631.551787
1.00000    4.507668  -69.197871    0.500620
 3.483662  -0.821412   -545.271321

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.478938   69.197871    0.500620
 3.483662   2.294900   890.393185
0.25000    5.478938   69.197871    0.500620
 3.483662   1.818845   804.112719
0.50000    5.478938   69.197871    0.500620
 3.483662   1.342791   717.832253
0.75000    5.478938   69.197871    0.500620
 3.483662   0.866736   631.551787
1.00000    5.478938   69.197871    0.500620
 3.483662   1.212872   574.418173

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.507668  -69.197871   -0.540812
-5.584391   -1.675412   -890.393185
0.25000   -4.507668  -69.197871   -0.540812
-5.584391   -1.051206   -804.112719
0.50000   -4.507668  -69.197871   -0.540812
-5.584391   -1.239727   -717.832253
0.75000   -4.507668  -69.197871   -0.540812
-5.584391   -1.429762   -631.551787
1.00000   -4.507668  -69.197871   -0.540812
-5.584391   -1.619797   -545.271321
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                              111

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       25 ================== LENGTH
=    4.987177

LOAD      -A1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.461700    4.749276    0.001655
-0.033352    0.632060    101.810921
0.25000   -0.461700    4.749276    0.001655
-0.033352    0.629996    95.889532
0.50000   -0.461700    4.749276    0.001655
-0.033352    0.627932    89.968182
0.75000   -0.461700    4.749276    0.001655
-0.033352    0.625868    84.046812
1.00000   -0.461700    4.749276    0.001655
-0.033352    0.623805    78.125442

LOAD      -P1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.095635   -22.106304    0.071853
 0.029084   -1.884063   -474.377161
0.25000    2.095635   -22.106304    0.071853
 0.029084   -1.794476   -446.815149
0.50000    2.095635   -22.106304    0.071853
 0.029084   -1.884063   -419.253137
0.75000    2.095635   -22.106304    0.071853
 0.029084   -1.973649   -391.691126
1.00000    2.095635   -22.106304    0.071853
 0.029084   -2.063236   -364.129114

LOAD      -P2 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -2.972220   43.800911   -0.423773
-4.314281    0.130312   574.508887
0.25000   -2.972220   43.800911   -0.423773
-4.314281    0.658670   519.898164
0.50000   -2.972220   43.800911   -0.423773
-4.314281    1.187029   465.287441
0.75000   -2.972220   43.800911   -0.423773
-4.314281    1.715387   410.676718
1.00000   -2.972220   43.800911   -0.423773
-4.314281    2.243746   356.065995

LOAD      -P3 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -3.607045   -43.631298    0.342266
 2.873798    1.786358   -95.634018
0.25000   -3.607045   -43.631298    0.342266
 2.873798    1.359623   -41.234768
0.50000   -3.607045   -43.631298    0.342266
 2.873798    0.932888    13.164482
0.75000   -3.607045   -43.631298    0.342266
 2.873798    0.506153    67.563731
1.00000   -3.607045   -43.631298    0.342266
 2.873798    0.079419   121.962981

LOAD      -P4 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.521488   21.077758    0.041470
 1.834501   -1.279724   -130.952589
0.25000   -0.521488   21.077758    0.041470
 1.834501   -1.331428   -157.232216
0.50000   -0.521488   21.077758    0.041470
 1.834501   -1.383133   -183.511842
0.75000   -0.521488   21.077758    0.041470
 1.834501   -1.434837   -209.791469
1.00000   -0.521488   21.077758    0.041470
 1.834501   -1.486541   -236.071096

LOAD      -P5 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    5.466817   -3.890344   -0.033471
-0.389750    0.435884    24.643959
0.25000    5.466817   -3.890344   -0.033471
```

```
-0.389750     0.477615    29.494417
 0.50000      5.466817    -3.890344     -0.033471
-0.389750     0.519346    34.344875
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 112

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.75000     5.466817    -3.890344     -0.033471
-0.389750     0.561077    39.195334
 1.00000     5.466817    -3.890344     -0.033471
-0.389750     0.602808    44.045792

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -3.955408    69.627945     -0.380648
-2.513132    -0.517352   545.367220
 0.25000    -3.955408    69.627945     -0.380648
-2.513132    -0.042762   458.555500
 0.50000    -3.955408    69.627945     -0.380648
-2.513132     0.431828   371.743781
 0.75000    -3.955408    69.627945     -0.380648
-2.513132     0.906419   284.932061
 1.00000    -3.955408    69.627945     -0.380648
-2.513132     1.381009   198.120341

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     3.955408   -69.627945      0.380648
 2.513132    0.517352  -545.367220
 0.25000     3.955408   -69.627945      0.380648
 2.513132    0.042762  -458.555500
 0.50000     3.955408   -69.627945      0.380648
 2.513132   -0.431828  -371.743781
 0.75000     3.955408   -69.627945      0.380648
 2.513132   -0.906419  -284.932061
 1.00000     3.955408   -69.627945      0.380648
 2.513132   -1.381009  -198.120341

COMB  SETTLE ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     5.466817    69.627945      0.380648
 2.873798    1.786358   574.508887
 0.25000     5.466817    69.627945      0.380648
 2.873798    1.359623   519.898164
 0.50000     5.466817    69.627945      0.380648
 2.873798    1.187029   465.287441
 0.75000     5.466817    69.627945      0.380648
 2.873798    1.715387   410.676718
 1.00000     5.466817    69.627945      0.380648
 2.873798    2.243746   356.065995

COMB  SETTLE ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -3.955408   -69.627945     -0.423773
-4.314281    -1.704890  -545.367220
 0.25000    -3.955408   -69.627945     -0.423773
-4.314281    -1.884063  -458.555500
 0.50000    -3.955408   -69.627945     -0.423773
-4.314281    -1.884063  -419.253137
 0.75000    -3.955408   -69.627945     -0.423773
-4.314281    -1.973649  -391.691126
 1.00000    -3.955408   -69.627945     -0.423773
-4.314281    -2.063236  -364.129114

ELEM      26 ================== LENGTH
=     4.988032

LOAD      -A1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.452696    4.777824      0.011637
 0.224053    0.602521   78.126302
 0.25000    -0.452696    4.777824      0.011637
 0.224053    0.588010   72.168317
 0.50000    -0.452696    4.777824      0.011637
 0.224053    0.573498   66.210332
 0.75000    -0.452696    4.777824      0.011637
 0.224053    0.558987   60.252346
 1.00000    -0.452696    4.777824      0.011637
 0.224053    0.544475   54.294361
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 113

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     2.061724   -22.257406      0.001240
-1.047069    -1.980660  -364.131863
 0.25000     2.061724   -22.257406      0.001240
-1.047069    -1.982207  -336.376698
 0.50000     2.061724   -22.257406      0.001240
-1.047069    -1.983753  -308.621532
 0.75000     2.061724   -22.257406      0.001240
-1.047069    -1.985300  -280.866367
 1.00000     2.061724   -22.257406      0.001240
-1.047069    -1.986847  -253.111201

LOAD      -P2 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -2.447308    44.005844     -0.332202
-3.486549     0.971520   356.161246
 0.25000    -2.447308    44.005844     -0.332202
-3.486549     1.385778   301.285601
 0.50000    -2.447308    44.005844     -0.332202
-3.486549     1.800037   246.409956
 0.75000    -2.447308    44.005844     -0.332202
-3.486549     2.214296   191.534310
 1.00000    -2.447308    44.005844     -0.332202
-3.486549     2.628555   136.658665

LOAD      -P3 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -4.184476   -43.645552      0.339393
 3.455291    1.478125   121.864035
 0.25000    -4.184476   -43.645552      0.339393
 3.455291    1.054898   176.290393
 0.50000    -4.184476   -43.645552      0.339393
 3.455291    0.631672   230.716751
 0.75000    -4.184476   -43.645552      0.339393
 3.455291    0.208446   285.143108
 1.00000    -4.184476   -43.645552      0.339393
 3.455291   -0.214780   339.569466

LOAD      -P4 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.440865    21.020330      0.008596
 1.001880    -1.681279  -236.066376
 0.25000    -0.440865    21.020330      0.008596
 1.001880    -1.691999  -262.278898
 0.50000    -0.440865    21.020330      0.008596
 1.001880    -1.702719  -288.491421
 0.75000    -0.440865    21.020330      0.008596
 1.001880    -1.713439  -314.703943
 1.00000    -0.440865    21.020330      0.008596
 1.001880    -1.724159  -340.916465

LOAD      -P5 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     5.463622   -3.901041     -0.028665
-0.147606    0.609774   44.046666
 0.25000     5.463622   -3.901041     -0.028665
-0.147606    0.645519   48.911286
 0.50000     5.463622   -3.901041     -0.028665
-0.147606    0.681264   53.775915
 0.75000     5.463622   -3.901041     -0.028665
-0.147606    0.717010   58.640544
 1.00000     5.463622   -3.901041     -0.028665
-0.147606    0.752755   63.505174

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -3.340869    69.803998     -0.311969
-2.260616    -0.107238   198.221172
 0.25000    -3.340869    69.803998     -0.311969
-2.260616     0.281789   111.175019
 0.50000    -3.340869    69.803998     -0.311969
-2.260616     0.670817    24.128867
 0.75000    -3.340869    69.803998     -0.311969
-2.260616     1.059844   -62.917286
 1.00000    -3.340869    69.803998     -0.311969
-2.260616     1.448872  -149.963439
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 114

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     3.340869   -69.803998      0.311969
 2.260616    0.107238  -198.221172
 0.25000     3.340869   -69.803998      0.311969
 2.260616    0.281789  -111.175019
 0.50000     3.340869   -69.803998      0.311969
 2.260616   -0.670817   -24.128867
 0.75000     3.340869   -69.803998      0.311969
 2.260616   -1.059844    62.917286
 1.00000     3.340869   -69.803998      0.311969
 2.260616   -1.448872   149.963439

COMB  SETTLE ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     5.463622    69.803998      0.339393
 3.455291    1.478125   356.161246
 0.25000     5.463622    69.803998      0.339393
 3.455291    1.385778   301.285601
 0.50000     5.463622    69.803998      0.339393
 3.455291    1.800037   246.409956
 0.75000     5.463622    69.803998      0.339393
 3.455291    2.214296   285.143108
 1.00000     5.463622    69.803998      0.339393
 3.455291    2.628555   339.569466

COMB  SETTLE ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -4.184476   -69.803998     -0.332202
-3.486549    -1.980660  -364.131863
 0.25000    -4.184476   -69.803998     -0.332202
-3.486549    -1.982207  -336.376698
 0.50000    -4.184476   -69.803998     -0.332202
-3.486549    -1.983753  -308.621532
 0.75000    -4.184476   -69.803998     -0.332202
-3.486549    -1.985300  -314.703943
 1.00000    -4.184476   -69.803998     -0.332202
-3.486549    -1.986847  -340.916465

ELEM      27 ================== LENGTH
=     4.988005

LOAD      -A1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.433474    4.790168      0.017219
 0.439427    0.498496   54.295447
 0.25000    -0.433474    4.790168      0.017219
 0.439427    0.477023   48.322101
 0.50000    -0.433474    4.790168      0.017219
 0.439427    0.455551   42.348755
 0.75000    -0.433474    4.790168      0.017219
 0.439427    0.434078   36.375410
 1.00000    -0.433474    4.790168      0.017219
 0.439427    0.412605   30.402064

LOAD      -P1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     1.977220   -22.322346     -0.035148
-1.986968    -1.782680   253.115792
 0.25000     1.977220   -22.322346     -0.035148
-1.986968    -1.738850   225.279799
 0.50000     1.977220   -22.322346     -0.035148
-1.986968    -1.695020   197.443806
 0.75000     1.977220   -22.322346     -0.035148
-1.986968    -1.651191   169.607812
 1.00000     1.977220   -22.322346     -0.035148
-1.986968    -1.607361   141.771819

LOAD      -P2 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -1.882441    43.995345     -0.329017
-2.826275     1.260202   136.756384
 0.25000    -1.882441    43.995345     -0.329017
-2.826275     1.670487    81.894135
 0.50000    -1.882441    43.995345     -0.329017
-2.826275     2.080771    27.031885
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 115

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.75000     1.882441    43.995345     -0.329017
-2.826275     2.491056   -27.830364
 1.00000     1.882441    43.995345     -0.329017
-2.826275     2.901340   -82.692613

LOAD      -P3 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -4.724246   -43.441301      0.425734
 4.283158    1.093597   339.471683
 0.25000    -4.724246   -43.441301      0.425734
 4.283158    0.562706   393.643039
 0.50000    -4.724246   -43.441301      0.425734
 4.283158    0.031815   447.814395
 0.75000    -4.724246   -43.441301      0.425734
 4.283158   -0.499076   501.985751
 1.00000    -4.724246   -43.441301      0.425734
 4.283158   -1.029967   556.157107

LOAD      -P4 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.409499    20.873227     -0.058211
-0.049194    -1.800602  -340.914215
 0.25000    -0.409499    20.873227     -0.058211
-0.049194    -1.728013  -366.943155
 0.50000    -0.409499    20.873227     -0.058211
-0.049194    -1.655424  -392.972095
 0.75000    -0.409499    20.873227     -0.058211
-0.049194    -1.582835  -419.001035
 1.00000    -0.409499    20.873227     -0.058211
-0.049194    -1.510246  -445.029975

LOAD      -P5 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     5.472440   -3.895093     -0.020578
 0.139851    0.730987   63.506494
 0.25000     5.472440   -3.895093     -0.020578
 0.139851    0.756647   68.363679
 0.50000     5.472440   -3.895093     -0.020578
 0.139851    0.782307   73.220865
 0.75000     5.472440   -3.895093     -0.020578
 0.139851    0.807968   78.078051
 1.00000     5.472440   -3.895093     -0.020578
 0.139851    0.833628   82.935236

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -2.725414    69.658740     -0.370008
-2.436041    -0.041904  -149.862384
 0.25000    -2.725414    69.658740     -0.370008
-2.436041     0.419497  -236.726919
 0.50000    -2.725414    69.658740     -0.370008
-2.436041     0.880898  -323.591454
 0.75000    -2.725414    69.658740     -0.370008
-2.436041     1.342299  -410.455989
 1.00000    -2.725414    69.658740     -0.370008
-2.436041     1.803699  -497.320524

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     2.725414   -69.658740      0.370008
 2.436041    0.041904   149.862384
 0.25000     2.725414   -69.658740      0.370008
 2.436041   -0.419497   236.726919
 0.50000     2.725414   -69.658740      0.370008
 2.436041   -0.880898   323.591454
 0.75000     2.725414   -69.658740      0.370008
 2.436041   -1.342299   410.455989
 1.00000     2.725414   -69.658740      0.370008
 2.436041   -1.803699   497.320524

COMB  SETTLE ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     5.472440    69.658740      0.425734
 4.283158    1.260202   339.471683
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 116

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.25000     5.472440    69.658740      0.425734
 4.283158    1.670487   393.643039
 0.50000     5.472440    69.658740      0.425734
 4.283158    2.080771   447.814395
 0.75000     5.472440    69.658740      0.425734
 4.283158    2.491056   501.985751
 1.00000     5.472440    69.658740      0.425734
 4.283158    2.901340   556.157107

COMB  SETTLE ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -4.724246   -69.658740     -0.370008
-2.826275    -1.800602  -340.914215
 0.25000    -4.724246   -69.658740     -0.370008
-2.826275    -1.738850  -366.943155
 0.50000    -4.724246   -69.658740     -0.370008
-2.826275    -1.677098  -392.972095
 0.75000    -4.724246   -69.658740     -0.370008
-2.826275    -1.651191  -419.001035
 1.00000    -4.724246   -69.658740     -0.370008
-2.826275    -1.803699  -497.320524

ELEM      28 ================== LENGTH
=     4.987103

LOAD      -A1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.408046    4.788940      0.018660
 0.588305    0.351570   30.403143
 0.25000    -0.408046    4.788940      0.018660
 0.588305    0.328305   24.432409
 0.50000    -0.408046    4.788940      0.018660
 0.588305    0.305040   18.461675
 0.75000    -0.408046    4.788940      0.018660
 0.588305    0.281775   12.490941
 1.00000    -0.408046    4.788940      0.018660
 0.588305    0.258511    6.520207

LOAD      -P1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     1.861707   -22.319133     -0.043510
-2.649660    -1.328450  -141.776895
 0.25000     1.861707   -22.319133     -0.043510
-2.649660    -1.274203  -113.949943
 0.50000     1.861707   -22.319133     -0.043510
-2.649660    -1.219955   -86.122991
 0.75000     1.861707   -22.319133     -0.043510
-2.649660    -1.165708   -58.296039
 1.00000     1.861707   -22.319133     -0.043510
-2.649660    -1.111461   -30.469087

LOAD      -P2 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -1.316885    43.835279     -0.374876
-2.580093     1.531092   -82.596958
 0.25000    -1.316885    43.835279     -0.374876
-2.580093     1.998479  -137.249718
 0.50000    -1.316885    43.835279     -0.374876
-2.580093     2.465865  -191.902477
 0.75000    -1.316885    43.835279     -0.374876
-2.580093     2.933252  -246.555237
 1.00000    -1.316885    43.835279     -0.374876
-2.580093     3.400639  -301.207996

LOAD      -P3 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -5.187781   -43.072826      0.545335
 5.396386    0.095085   556.065298
 0.25000    -5.187781   -43.072826      0.545335
 5.396386   -0.584825   609.767450
 0.50000    -5.187781   -43.072826      0.545335
 5.396386   -1.264736   663.469602
 0.75000    -5.187781   -43.072826      0.545335
 5.396386   -1.944646   717.171753
 1.00000    -5.187781   -43.072826      0.545335
 5.396386   -2.624556   770.873905
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 117

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.445366    20.653526     -0.133775
-1.248231    -1.424907  -445.031703
 0.25000    -0.445366    20.653526     -0.133775
-1.248231    -1.258120  -470.782018
 0.50000    -0.445366    20.653526     -0.133775
-1.248231    -1.091333  -496.532332
 0.75000    -0.445366    20.653526     -0.133775
-1.248231    -0.924546  -522.282646
 1.00000    -0.445366    20.653526     -0.133775
-1.248231    -0.757759  -548.032960

LOAD      -P5 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     5.496371   -3.885786     -0.011834
 0.493292    0.775610   82.937115
 0.25000     5.496371   -3.885786     -0.011834
 0.493292    0.790364   87.781819
 0.50000     5.496371   -3.885786     -0.011834
 0.493292    0.805118   92.626524
 0.75000     5.496371   -3.885786     -0.011834
 0.493292    0.819872   97.471228
 1.00000     5.496371   -3.885786     -0.011834
 0.493292    0.834627  102.315932

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -2.170297    69.277746     -0.489991
-3.240019    -0.457755  -497.225518
 0.25000    -2.170297    69.277746     -0.489991
-3.240019     1.068664  -583.599326
 0.50000    -2.170297    69.277746     -0.489991
-3.240019     1.679573  -669.973134
 0.75000    -2.170297    69.277746     -0.489991
-3.240019     2.290481  -756.346942
 1.00000    -2.170297    69.277746     -0.489991
-3.240019     2.901390  -842.720750

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     2.170297   -69.277746      0.489991
 3.240019   -0.457755   497.225518
 0.25000     2.170297   -69.277746      0.489991
 3.240019   -1.068664   583.599326
 0.50000     2.170297   -69.277746      0.489991
 3.240019   -1.679573   669.973134
 0.75000     2.170297   -69.277746      0.489991
 3.240019   -2.290481   756.346942
 1.00000     2.170297   -69.277746      0.489991
 3.240019   -2.901390   842.720750

COMB  SETTLE ---------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     5.496371    69.277746      0.545335
 5.396386    1.531092   556.065298
 0.25000     5.496371    69.277746      0.545335
 5.396386    1.998479   609.767450
 0.50000     5.496371    69.277746      0.545335
 5.396386    2.465865   663.469602
 0.75000     5.496371    69.277746      0.545335
 5.396386    2.933252   756.346942
 1.00000     5.496371    69.277746      0.545335
 5.396386    3.400639   842.720750

COMB  SETTLE ---------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -5.187781   -69.277746     -0.489991
-3.240019    -1.424907  -497.225518
 0.25000    -5.187781   -69.277746     -0.489991
-3.240019    -1.274203  -583.599326
 0.50000    -5.187781   -69.277746     -0.489991
-3.240019    -1.679573  -669.973134
 0.75000    -5.187781   -69.277746     -0.489991
-3.240019    -2.290481  -756.346942
 1.00000    -5.187781   -69.277746     -0.489991
-3.240019    -2.901390  -842.720750
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 118

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      29 ================== LENGTH
=     4.988326

LOAD      -A1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.380560    4.780494      0.020557
 0.651776    0.192488    6.521049
 0.25000    -0.380560    4.780494      0.020557
 0.651776    0.166852    0.559384
 0.50000    -0.380560    4.780494      0.020557
 0.651776    0.141216   -5.402281
 0.75000    -0.380560    4.780494      0.020557
 0.651776    0.115579   -11.363946
 1.00000    -0.380560    4.780494      0.020557
 0.651776    0.089943   -17.325610

LOAD      -P1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     1.735241   -22.278736     -0.050052
-2.935884    -0.806297   -30.473344
 0.25000     1.735241   -22.278736     -0.050052
-2.935884    -0.743877   -2.689946
 0.50000     1.735241   -22.278736     -0.050052
-2.935884    -0.681458    25.093452
 0.75000     1.735241   -22.278736     -0.050052
-2.935884    -0.619039    52.876850
 1.00000     1.735241   -22.278736     -0.050052
-2.935884    -0.556620    80.660248

LOAD      -P2 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.784041    43.357286     -0.356812
-2.365931     2.109317   -301.211868
 0.25000    -0.784041    43.357286     -0.356812
-2.365931     2.554291   -355.188684
 0.50000    -0.784041    43.357286     -0.356812
-2.365931     2.999264   -409.258750
 0.75000    -0.784041    43.357286     -0.356812
-2.365931     3.444238   -463.328815
 1.00000    -0.784041    43.357286     -0.356812
-2.365931     3.889211   -517.398881

LOAD      -P3 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -5.550639   -42.113499      0.535750
 5.771233    -1.741866   770.793717
 0.25000    -5.550639   -42.113499      0.535750
 5.771233    -2.409990   823.312679
 0.50000    -5.550639   -42.113499      0.535750
 5.771233    -3.078114   875.831641
 0.75000    -5.550639   -42.113499      0.535750
 5.771233    -3.746238   928.350604
 1.00000    -5.550639   -42.113499      0.535750
 5.771233    -4.414362   980.869566

LOAD      -P4 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.556277    20.084958     -0.133363
-1.940912    -0.491880  -548.041250
 0.25000    -0.556277    20.084958     -0.133363
-1.940912    -0.325565  -573.088828
 0.50000    -0.556277    20.084958     -0.133363
-1.940912    -0.159250  -598.136405
```

```
 0.75000    -0.556277    20.084958    -0.133363
-1.940912     0.007064  -623.183983
 1.00000    -0.556277    20.084958    -0.133363
-1.940912     0.173379  -648.231560

LOAD      -P5 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    5.536276   -3.830502   -0.016080
 0.819719   0.738237  102.318447
 0.25000    5.536276   -3.830502   -0.016080
 0.819719   0.758290  107.095394
 0.50000    5.536276   -3.830502   -0.016080
 0.819719   0.778343  111.872342
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       119

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.75000    5.536276   -3.830502   -0.016080
 0.819719   0.798395  116.649290
 1.00000    5.536276   -3.830502   -0.016080
 0.819719   0.818448  121.426238

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -1.720878   68.222737   -0.469618
-3.655067    1.809926  -842.638820
 0.25000   -1.720878   68.222737   -0.469618
-3.655067    2.395577  -927.718128
 0.50000   -1.720878   68.222737   -0.469618
-3.655067    2.981229  -1012.797
 0.75000   -1.720878   68.222737   -0.469618
-3.655067    3.566881  -1097.877
 1.00000   -1.720878   68.222737   -0.469618
-3.655067    4.152533  -1182.956

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.720878   -68.222737    0.469618
 3.655067   -1.809926   842.638820
 0.25000    1.720878   -68.222737    0.469618
 3.655067   -2.395577   927.718128
 0.50000    1.720878   -68.222737    0.469618
 3.655067   -2.981229   1012.797
 0.75000    1.720878   -68.222737    0.469618
 3.655067   -3.566881   1097.877
 1.00000    1.720878   -68.222737    0.469618
 3.655067   -4.152533   1182.956

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    5.536276   68.222737    0.535750
 5.771233   2.109317  842.638820
 0.25000    5.536276   68.222737    0.535750
 5.771233   2.554291  927.718128
 0.50000    5.536276   68.222737    0.535750
 5.771233   2.999264  1012.797
 0.75000    5.536276   68.222737    0.535750
 5.771233   3.566881  1097.877
 1.00000    5.536276   68.222737    0.535750
 5.771233   4.152533  1182.956

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.550639   -68.222737   -0.469618
-3.655067   -1.809926  -842.638820
 0.25000   -5.550639   -68.222737   -0.469618
-3.655067   -2.409990  -927.718128
 0.50000   -5.550639   -68.222737   -0.469618
-3.655067   -3.078114  -1012.797
 0.75000   -5.550639   -68.222737   -0.469618
-3.655067   -3.746238  -1097.877
 1.00000   -5.550639   -68.222737   -0.469618
-3.655067   -4.414362  -1182.956

ELEM       30 ================== LENGTH
=     4.986674

LOAD      -A1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.354433    4.757398    0.029695
 0.642321   0.027162  -17.325082
 0.25000   -0.354433    4.757398    0.029695
 0.642321  -0.009858  -23.255981
 0.50000   -0.354433    4.757398    0.029695
 0.642321  -0.046879  -29.186879
 0.75000   -0.354433    4.757398    0.029695
 0.642321  -0.083899  -35.117778
 1.00000   -0.354433    4.757398    0.029695
 0.642321  -0.120919  -41.048676
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       120

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.614347  -22.165549   -0.089427
-2.902295   -0.264918   80.657354
 0.25000    1.614347  -22.165549   -0.089427
-2.902295   -0.153433  108.290447
 0.50000    1.614347  -22.165549   -0.089427
-2.902295   -0.041948  135.923541
 0.75000    1.614347  -22.165549   -0.089427
-2.902295    0.069537  163.556634
 1.00000    1.614347  -22.165549   -0.089427
-2.902295    0.181023  191.189728

LOAD      -P2 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.311601   42.530748   -0.096643
-2.087032    2.743990  -517.318606
 0.25000   -0.311601   42.530748   -0.096643
-2.087032    2.864472  -570.340352
 0.50000   -0.311601   42.530748   -0.096643
-2.087032    2.984954  -623.362098
 0.75000   -0.311601   42.530748   -0.096643
-2.087032    3.105436  -676.383844
 1.00000   -0.311601   42.530748   -0.096643
-2.087032    3.225919  -729.405590

LOAD      -P3 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.794903   -40.611847    0.107406
 5.401891  -3.819443   980.804910
 0.25000   -5.794903   -40.611847    0.107406
 5.401891  -3.953343   1031.434
 0.50000   -5.794903   -40.611847    0.107406
 5.401891  -4.087243   1082.064
 0.75000   -5.794903   -40.611847    0.107406
 5.401891  -4.221144   1132.693
 1.00000   -5.794903   -40.611847    0.107406
 5.401891  -4.355044   1183.323

LOAD      -P4 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.745373   19.241772    0.109499
-2.219680    0.629631  -648.247859
 0.25000   -0.745373   19.241772    0.109499
-2.219680    0.493122  -672.235971
 0.50000   -0.745373   19.241772    0.109499
-2.219680    0.356612  -696.224083
 0.75000   -0.745373   19.241772    0.109499
-2.219680    0.220103  -720.212195
 1.00000   -0.745373   19.241772    0.109499
-2.219680    0.083594  -744.200307

LOAD      -P5 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    5.591963   -3.752522   -0.060531
 1.164796   0.683578  121.429283
 0.25000    5.591963   -3.752522   -0.060531
 1.164796   0.759041  126.107434
 0.50000    5.591963   -3.752522   -0.060531
 1.164796   0.834503  130.785585
 0.75000    5.591963   -3.752522   -0.060531
 1.164796   0.909966  135.463735
 1.00000    5.591963   -3.752522   -0.060531
 1.164796   0.985428  140.141886

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -1.411407   66.529918    0.042551
-3.664392    3.400783  -1182.892
 0.25000   -1.411407   66.529918    0.042551
-3.664392    3.347736  -1265.832
 0.50000   -1.411407   66.529918    0.042551
-3.664392    3.294688  -1348.773
 0.75000   -1.411407   66.529918    0.042551
-3.664392    3.241641  -1431.714
 1.00000   -1.411407   66.529918    0.042551
-3.664392    3.188593  -1514.655
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       121

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.411407   -66.529918   -0.042551
 3.664392  -3.400783   1182.892
 0.25000    1.411407   -66.529918   -0.042551
 3.664392  -3.347736   1265.832
 0.50000    1.411407   -66.529918   -0.042551
 3.664392  -3.294688   1348.773
 0.75000    1.411407   -66.529918   -0.042551
 3.664392  -3.241641   1431.714
 1.00000    1.411407   -66.529918   -0.042551
 3.664392  -3.188593   1514.655

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    5.591963   66.529918    0.109499
 5.401891   3.400783  1182.892
 0.25000    5.591963   66.529918    0.109499
 5.401891   3.347736  1265.832
 0.50000    5.591963   66.529918    0.109499
 5.401891   3.294688  1348.773
 0.75000    5.591963   66.529918    0.109499
 5.401891   3.241641  1431.714
 1.00000    5.591963   66.529918    0.109499
 5.401891   3.225919  1514.655

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.794903   -66.529918   -0.096643
-3.664392   -3.819443  -1182.892
 0.25000   -5.794903   -66.529918   -0.096643
-3.664392   -3.953343  -1265.832
 0.50000   -5.794903   -66.529918   -0.096643
-3.664392   -4.087243  -1348.773
 0.75000   -5.794903   -66.529918   -0.096643
-3.664392   -4.221144  -1431.714
 1.00000   -5.794903   -66.529918   -0.096643
-3.664392   -4.355044  -1514.655

ELEM       31 ================== LENGTH
=     3.491742

LOAD      -A1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.330400    4.720982    0.054153
 0.589005  -0.177664  -41.047814
 0.25000   -0.330400    4.720982    0.054153
 0.589005  -0.224936  -45.168927
 0.50000   -0.330400    4.720982    0.054153
 0.589005  -0.272208  -49.290040
 0.75000   -0.330400    4.720982    0.054153
 0.589005  -0.319480  -53.411153
 1.00000   -0.330400    4.720982    0.054153
 0.589005  -0.366752  -57.532266

LOAD      -P1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.502825   -21.983905   -0.201420
-2.686855    0.445232   191.185401
 0.25000    1.502825   -21.983905   -0.201420
-2.686855    0.621058  -215.379834
 0.50000    1.502825   -21.983905   -0.201420
-2.686855    0.796885   229.566467
 0.75000    1.502825   -21.983905   -0.201420
-2.686855    0.972711   248.757001
 1.00000    1.502825   -21.983905   -0.201420
-2.686855    1.148538   267.947534

LOAD      -P2 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    0.111737   41.369205    0.628287
-1.323704   2.220391  -729.337117
 0.25000    0.111737   41.369205    0.628287
-1.323704   1.671937  -765.449769
 0.50000    0.111737   41.369205    0.628287
-1.323704   1.123482  -801.562421
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       122

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.75000    0.111737   41.369205    0.628287
-1.323704   0.575028  -837.675073
 1.00000    0.111737   41.369205    0.628287
-1.323704   0.026574  -873.787725

LOAD      -P3 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.916908   -38.541976   -1.045150
 3.509331  -4.068639   1183.285
 0.25000   -5.916908   -38.541976   -1.045150
 3.509331  -3.156291   1216.930
 0.50000   -5.916908   -38.541976   -1.045150
 3.509331  -2.243942   1250.574
 0.75000   -5.916908   -38.541976   -1.045150
 3.509331  -1.331593   1284.219
 1.00000   -5.916908   -38.541976   -1.045150
 3.509331  -0.419245   1317.864

LOAD      -P4 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -1.036347   18.080721    0.720643
-1.506819    0.779817  -744.233029
 0.25000   -1.036347   18.080721    0.720643
-1.506819    0.150742  -760.016335
 0.50000   -1.036347   18.080721    0.720643
-1.506819   -0.478333  -775.799640
 0.75000   -1.036347   18.080721    0.720643
-1.506819   -1.107408  -791.582946
 1.00000   -1.036347   18.080721    0.720643
-1.506819   -1.736482  -807.366251

LOAD      -P5 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    5.669092   -3.645028   -0.156513
 1.419043   0.800864  140.147438
 0.25000    5.669092   -3.645028   -0.156513
 1.419043   0.937490  143.329313
 0.50000    5.669092   -3.645028   -0.156513
 1.419043   1.074115  146.511187
 0.75000    5.669092   -3.645028   -0.156513
 1.419043   1.210741  149.693062
 1.00000    5.669092   -3.645028   -0.156513
 1.419043   1.347367  152.874936

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -1.255009   64.170908    1.403083
-2.241519   2.822544  -1514.618
 0.25000   -1.255009   64.170908    1.403083
-2.241519   1.597743  -1570.635
 0.50000   -1.255009   64.170908    1.403083
-2.241519   0.372942  -1626.652
 0.75000   -1.255009   64.170908    1.403083
-2.241519  -0.851859  -1682.669
 1.00000   -1.255009   64.170908    1.403083
-2.241519  -2.076660  -1738.686

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.255009  -64.170908   -1.403083
 2.241519  -2.822544   1514.618
 0.25000    1.255009  -64.170908   -1.403083
 2.241519  -1.597743   1570.635
 0.50000    1.255009  -64.170908   -1.403083
 2.241519  -0.372942   1626.652
 0.75000    1.255009  -64.170908   -1.403083
 2.241519   0.851859   1682.669
 1.00000    1.255009  -64.170908   -1.403083
 2.241519   2.076660   1738.686

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    5.669092   64.170908    1.403083
 3.509331   2.822544   1514.618
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       123

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.25000    5.669092   64.170908    1.403083
 3.509331   1.671937   1570.635
 0.50000    5.669092   64.170908    1.403083
 3.509331   1.123482   1626.652
 0.75000    5.669092   64.170908    1.403083
 3.509331   1.210741   1682.669
 1.00000    5.669092   64.170908    1.403083
 3.509331   2.076660   1738.686

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.916908   -64.170908   -1.403083
-2.686855   -4.068639   -1514.618
 0.25000   -5.916908   -64.170908   -1.403083
-2.686855   -3.156291   -1570.635
 0.50000   -5.916908   -64.170908   -1.403083
-2.686855   -2.243942   -1626.652
 0.75000   -5.916908   -64.170908   -1.403083
-2.686855   -1.331593   -1682.669
 1.00000   -5.916908   -64.170908   -1.403083
-2.686855   -2.076660   -1738.686

ELEM       32 ================== LENGTH
=     3.491035

LOAD      -A1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.311885   -1.378849   -0.032126
 0.609182  -0.417025   -57.535042
 0.25000   -0.311885   -1.378849   -0.032126
 0.609182  -0.388987   -56.331640
 0.50000   -0.311885   -1.378849   -0.032126
 0.609182  -0.360949   -55.128238
 0.75000   -0.311885   -1.378849   -0.032126
 0.609182  -0.332911   -53.924836
 1.00000   -0.311885   -1.378849   -0.032126
 0.609182  -0.304873   -52.721434

LOAD      -P1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.415059    6.399664    0.130455
-2.759983   1.382331   267.957994
 0.25000    1.415059    6.399664    0.130455
-2.759983   1.268475   262.372631
 0.50000    1.415059    6.399664    0.130455
-2.759983   1.154619   256.787269
 0.75000    1.415059    6.399664    0.130455
-2.759983   1.040763   251.201907
 1.00000    1.415059    6.399664    0.130455
-2.759983   0.926907   245.616544

LOAD      -P2 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    0.437665  -19.446534   -0.681063
 2.159923  -0.871005  -873.802959
 0.25000    0.437665  -19.446534   -0.681063
 2.159923  -0.276602  -856.830827
 0.50000    0.437665  -19.446534   -0.681063
 2.159923   0.317802  -839.858695
 0.75000    0.437665  -19.446534   -0.681063
 2.159923   0.912205  -822.886562
 1.00000    0.437665  -19.446534   -0.681063
 2.159923   1.506608  -805.914430

LOAD      -P3 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.848520   37.585241    0.979175
-3.172280  -0.367892   1317.968
 0.25000   -5.848520   37.585241    0.979175
-3.172280  -1.222476   1285.165
 0.50000   -5.848520   37.585241    0.979175
-3.172280  -2.077060   1252.362
 0.75000   -5.848520   37.585241    0.979175
-3.172280  -2.931644   1219.559
 1.00000   -5.848520   37.585241    0.979175
-3.172280  -3.786228   1186.757
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       124

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -1.467949   -35.654372   -0.535843
 2.044782  -0.849609   -807.484903
 0.25000   -1.467949   -35.654372   -0.535843
 2.044782  -0.381947   -776.367238
 0.50000   -1.467949   -35.654372   -0.535843
 2.044782   0.085715   -745.249574
 0.75000   -1.467949   -35.654372   -0.535843
 2.044782   0.553377   -714.131909
 1.00000   -1.467949   -35.654372   -0.535843
 2.044782   1.021039   -683.014245

LOAD      -P5 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    5.775630   12.494850    0.139401
 1.118376   1.123200  152.896876
 0.25000    5.775630   12.494850    0.139401
 1.118376   1.001537  141.991887
 0.50000    5.775630   12.494850    0.139401
 1.118376   0.879874  131.086898
 0.75000    5.775630   12.494850    0.139401
 1.118376   0.758211  120.181908
 1.00000    5.775630   12.494850    0.139401
 1.118376   0.636547  109.276919

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -1.342169   -56.479754   -1.249031
 4.813887  -2.137639   -1738.823
 0.25000   -1.342169   -56.479754   -1.249031
 4.813887  -1.045536   -1689.530
 0.50000   -1.342169   -56.479754   -1.249031
 4.813887   0.042567   -1640.237
 0.75000   -1.342169   -56.479754   -1.249031
 4.813887   1.132671   -1590.943
 1.00000   -1.342169   -56.479754   -1.249031
 4.813887   2.222774   -1541.650

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.342169   56.479754    1.249031
-4.813887   2.137639   1738.823
 0.25000    1.342169   56.479754    1.249031
-4.813887   1.045536   1689.530
 0.50000    1.342169   56.479754    1.249031
-4.813887  -0.042567   1640.237
 0.75000    1.342169   56.479754    1.249031
-4.813887  -1.132671   1590.943
 1.00000    1.342169   56.479754    1.249031
-4.813887  -2.222774   1541.650

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    5.775630   56.479754    1.249031
 4.813887   2.137639   1738.823
 0.25000    5.775630   56.479754    1.249031
 4.813887   1.268475   1689.530
 0.50000    5.775630   56.479754    1.249031
 4.813887   1.154619   1640.237
 0.75000    5.775630   56.479754    1.249031
 4.813887   1.132671   1590.943
 1.00000    5.775630   56.479754    1.249031
 4.813887   2.222774   1541.650

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.848520   -56.479754   -1.249031
-4.813887  -2.137639   -1738.823
 0.25000   -5.848520   -56.479754   -1.249031
-4.813887  -1.222476   -1689.530
 0.50000   -5.848520   -56.479754   -1.249031
-4.813887  -2.077060   -1640.237
 0.75000   -5.848520   -56.479754   -1.249031
-4.813887  -2.931644   -1590.943
 1.00000   -5.848520   -56.479754   -1.249031
-4.813887  -3.786228   -1541.650
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       125

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       33 ================== LENGTH
=     4.987993

LOAD      -A1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -0.296038   -1.404689   -0.012050
 0.490950  -0.342736   -52.721358
 0.25000   -0.296038   -1.404689   -0.012050
 0.490950  -0.327710   -50.969713
 0.50000   -0.296038   -1.404689   -0.012050
 0.490950  -0.312684   -49.218068
 0.75000   -0.296038   -1.404689   -0.012050
 0.490950  -0.297658   -47.466423
 1.00000   -0.296038   -1.404689   -0.012050
 0.490950  -0.282631   -45.714778

LOAD      -P1 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    1.341792    6.533952    0.038699
-2.250619   1.102065   245.616057
 0.25000    1.341792    6.533952    0.038699
-2.250619   1.053808   237.468229
 0.50000    1.341792    6.533952    0.038699
-2.250619   1.005550   229.320402
 0.75000    1.341792    6.533952    0.038699
-2.250619   0.957292   221.172574
 1.00000    1.341792    6.533952    0.038699
-2.250619   0.909035   213.024747

LOAD      -P2 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    0.728152  -20.603947   -0.037777
 2.818754   0.812620  -805.884163
 0.25000    0.728152  -20.603947   -0.037777
 2.818754   0.859727  -780.191075
 0.50000    0.728152  -20.603947   -0.037777
 2.818754   0.906835  -754.497987
 0.75000    0.728152  -20.603947   -0.037777
 2.818754   0.953942  -728.804900
 1.00000    0.728152  -20.603947   -0.037777
 2.818754   1.001049  -703.111812

LOAD      -P3 --------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000   -5.768061   39.633947   -0.174777
-5.265744  -3.975148   1181.287
 0.25000   -5.768061   39.633947   -0.174777
-5.265744  -3.757201   1137.364
 0.50000   -5.768061   39.633947   -0.174777
-5.265744  -3.539255   1087.940
 0.75000   -5.768061   39.633947   -0.174777
-5.265744  -3.321308   1038.517
 1.00000   -5.768061   39.633947   -0.174777
```

```
-5.265744   -3.103362  989.093320

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -1.882007  -36.778822    0.157782
 3.042557   2.005338 -683.084606
0.25000   -1.882007  -36.778822    0.157782
 3.042557   1.808584 -637.221477
0.50000   -1.882007  -36.778822    0.157782
 3.042557   1.611830 -591.358348
0.75000   -1.882007  -36.778822    0.157782
 3.042557   1.415077 -545.495219
1.00000   -1.882007  -36.778822    0.157782
 3.042557   1.218323 -499.632089

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    5.876162   12.619559    0.028122
 1.164103   0.397861 109.286889
0.25000    5.876162   12.619559    0.028122
 1.164103   0.362792  93.550320
0.50000    5.876162   12.619559    0.028122
 1.164103   0.327723  77.813751
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                  Page
<          UNEQUAL          SETTLEMENT          >
                                   126

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.75000    5.876162   12.619559    0.028122
 1.164103   0.292655  62.077181
1.00000    5.876162   12.619559    0.028122
 1.164103   0.257586  46.340612

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -1.449894  -58.787458    0.107955
 6.352260   2.475221  -1541.690
0.25000   -1.449894  -58.787458    0.107955
 6.352260   2.340601  -1468.382
0.50000   -1.449894  -58.787458    0.107955
 6.352260   2.205981  -1395.074
0.75000   -1.449894  -58.787458    0.107955
 6.352260   2.071361  -1321.767
1.00000   -1.449894  -58.787458    0.107955
 6.352260   1.936741  -1248.459

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.449894   58.787458   -0.107955
-6.352260  -2.475221   1541.690
0.25000    1.449894   58.787458   -0.107955
-6.352260  -2.340601   1468.382
0.50000    1.449894   58.787458   -0.107955
-6.352260  -2.205981   1395.074
0.75000    1.449894   58.787458   -0.107955
-6.352260  -2.071361   1321.767
1.00000    1.449894   58.787458   -0.107955
-6.352260  -1.936741   1248.459

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    5.876162   58.787458    0.157782
 6.352260   2.471221   1541.690
0.25000    5.876162   58.787458    0.157782
 6.352260   2.340601   1468.382
0.50000    5.876162   58.787458    0.157782
 6.352260   2.205981   1395.074
0.75000    5.876162   58.787458    0.157782
 6.352260   2.071361   1321.767
1.00000    5.876162   58.787458    0.157782
 6.352260   1.936741   1248.459

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.768061  -58.787458   -0.174777
-6.352260  -3.975148   -1541.690
0.25000   -5.768061  -58.787458   -0.174777
-6.352260  -3.757201   -1468.382
0.50000   -5.768061  -58.787458   -0.174777
-6.352260  -3.539255   -1395.074
0.75000   -5.768061  -58.787458   -0.174777
-6.352260  -3.321308   -1321.767
1.00000   -5.768061  -58.787458   -0.174777
-6.352260  -3.103362   -1248.459

ELEM       34 ================== LENGTH
=    4.987797

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.286909  -1.425007   -0.003910
 0.332400  -0.304746  -45.715594
0.25000   -0.286909  -1.425007   -0.003910
 0.332400  -0.299871  -43.938683
0.50000   -0.286909  -1.425007   -0.003910
 0.332400  -0.294996  -42.161772
0.75000   -0.286909  -1.425007   -0.003910
 0.332400  -0.290121  -40.384861
1.00000   -0.286909  -1.425007   -0.003910
 0.332400  -0.285246  -38.607950
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                  Page
<          UNEQUAL          SETTLEMENT          >
                                   127

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.300190   6.635581    0.002970
-1.533969  1.009843  213.028549
0.25000    1.300190   6.635581    0.002970
-1.533969  1.006139  204.754317
0.50000    1.300190   6.635581    0.002970
-1.533969  1.002435  196.480086
0.75000    1.300190   6.635581    0.002970
-1.533969  0.998731  188.205854
1.00000    1.300190   6.635581    0.002970
-1.533969  0.995027  179.931623

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.909241  -21.457080    0.213214
 2.164237   0.564973 -703.098469
0.25000    0.909241  -21.457080    0.213214
 2.164237   0.299107 -676.342581
0.50000    0.909241  -21.457080    0.213214
 2.164237   0.033240 -649.586693
0.75000    0.909241  -21.457080    0.213214
 2.164237  -0.232626 -622.830805
1.00000    0.909241  -21.457080    0.213214
 2.164237  -0.498493 -596.074918

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.562795   41.137404   -0.608599
-5.338799  -3.605148  989.150596
0.25000   -5.562795   41.137404   -0.608599
-5.338799  -2.846256  937.854345
0.50000   -5.562795   41.137404   -0.608599
-5.338799  -2.087364  886.558095
0.75000   -5.562795   41.137404   -0.608599
-5.338799  -1.328473  835.261844
1.00000   -5.562795   41.137404   -0.608599
-5.338799  -0.569581  783.965593

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -2.340334  -37.590765    0.412669
 3.232837   2.330175 -499.714783
0.25000   -2.340334  -37.590765    0.412669
 3.232837   1.815598 -452.841011
0.50000   -2.340334  -37.590765    0.412669
 3.232837   1.301021 -405.967240
0.75000   -2.340334  -37.590765    0.412669
 3.232837   0.786444 -359.093468
1.00000   -2.340334  -37.590765    0.412669
 3.232837   0.271867 -312.219697

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    5.980608   12.699867   -0.016344
 1.143294   0.004903  46.349702
0.25000    5.980608   12.699867   -0.016344
 1.143294   0.025284  30.513613
0.50000    5.980608   12.699867   -0.016344
 1.143294   0.045664  14.677525
0.75000    5.980608   12.699867   -0.016344
 1.143294   0.066045  -1.158564
1.00000    5.980608   12.699867   -0.016344
 1.143294   0.086426  -16.994652

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -1.718002  -60.472852    0.621973
 5.729474   2.590402  -1248.529
0.25000   -1.718002  -60.472852    0.621973
 5.729474   1.814833  -1173.122
0.50000   -1.718002  -60.472852    0.621973
 5.729474   1.039265  -1097.716
0.75000   -1.718002  -60.472852    0.621973
 5.729474   0.263697  -1022.309
1.00000   -1.718002  -60.472852    0.621973
 5.729474  -0.511872  -946.902564
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                  Page
<          UNEQUAL          SETTLEMENT          >
                                   128

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.718002   60.472852   -0.621973
-5.729474  -2.590402   1248.529
0.25000    1.718002   60.472852   -0.621973
-5.729474  -1.814833   1173.122
0.50000    1.718002   60.472852   -0.621973
-5.729474  -1.039265   1097.716
0.75000    1.718002   60.472852   -0.621973
-5.729474  -0.263697   1022.309
1.00000    1.718002   60.472852   -0.621973
-5.729474   0.511872   946.902564

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    5.980608   60.472852    0.621973
 5.729474   2.590402   1248.529
0.25000    5.980608   60.472852    0.621973
 5.729474   1.815598   1173.122
0.50000    5.980608   60.472852    0.621973
 5.729474   1.301021   1097.716
0.75000    5.980608   60.472852    0.621973
 5.729474   0.998731   1022.309
1.00000    5.980608   60.472852    0.621973
 5.729474   0.995027   946.902564

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.562795  -60.472852   -0.621973
-5.729474  -3.605148   -1248.529
0.25000   -5.562795  -60.472852   -0.621973
-5.729474  -2.846256   -1173.122
0.50000   -5.562795  -60.472852   -0.621973
-5.729474  -2.087364   -1097.716
0.75000   -5.562795  -60.472852   -0.621973
-5.729474  -1.328473   -1022.309
1.00000   -5.562795  -60.472852   -0.621973
-5.729474  -0.569581   -946.902564

ELEM       35 ================== LENGTH
=    4.987697

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.283115  -1.441184   -0.003121
 0.205535  -0.294427  -38.608748
0.25000   -0.283115  -1.441184   -0.003121
 0.205535  -0.290536  -36.811700
0.50000   -0.283115  -1.441184   -0.003121
 0.205535  -0.286645  -35.014652
0.75000   -0.283115  -1.441184   -0.003121
 0.205535  -0.282754  -33.217605
1.00000   -0.283115  -1.441184   -0.003121
 0.205535  -0.278863  -31.420557

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.283789   6.714373    0.000886
-0.954491  1.034721  179.935480
0.25000    1.283789   6.714373    0.000886
-0.954491  1.033617  171.563165
0.50000    1.283789   6.714373    0.000886
-0.954491  1.032512  163.190850
0.75000    1.283789   6.714373    0.000886
-0.954491  1.031408  154.818536
1.00000    1.283789   6.714373    0.000886
-0.954491  1.030304  146.446221

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.005845  -22.039892    0.210693
 1.260317  -0.728838 -596.069678
0.25000    1.005845  -22.039892    0.210693
 1.260317  -0.991555 -568.587604
0.50000    1.005845  -22.039892    0.210693
 1.260317  -1.254273 -541.105529
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                  Page
<          UNEQUAL          SETTLEMENT          >
                                   129

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.75000    1.005845  -22.039892    0.210693
 1.260317  -1.516991 -513.623454
1.00000    1.005845  -22.039892    0.210693
 1.260317  -1.779708 -486.141379

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.239239   42.102967   -0.611887
-4.789946  -1.356855  784.038163
0.25000   -5.239239   42.102967   -0.611887
-4.789946  -0.595678  731.538955
0.50000   -5.239239   42.102967   -0.611887
-4.789946   0.167298  679.039746
0.75000   -5.239239   42.102967   -0.611887
-4.789946   0.930275  626.540537
1.00000   -5.239239   42.102967   -0.611887
-4.789946   1.693251  574.041328

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -2.857096  -38.064651    0.429742
 3.327004   1.525027 -312.311130
0.25000   -2.857096  -38.064651    0.429742
 3.327004   0.989172 -264.847395
0.50000   -2.857096  -38.064651    0.429742
 3.327004   0.453317 -217.383659
0.75000   -2.857096  -38.064651    0.429742
 3.327004  -0.082538 -169.919924
1.00000   -2.857096  -38.064651    0.429742
 3.327004  -0.618394 -122.456189

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    6.089817   12.728387   -0.026313
 0.951581  -0.177829  -16.984087
0.25000    6.089817   12.728387   -0.026313
 0.951581  -0.145019  -32.855421
0.50000    6.089817   12.728387   -0.026313
 0.951581  -0.112210  -48.726756
0.75000    6.089817   12.728387   -0.026313
 0.951581  -0.079400  -64.598090
1.00000    6.089817   12.728387   -0.026313
 0.951581  -0.046590  -80.469424

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -2.134367  -61.545727    0.637314
 4.792856   0.501762  -946.989556
0.25000   -2.134367  -61.545727    0.637314
 4.792856  -0.292919  -870.246698
0.50000   -2.134367  -61.545727    0.637314
 4.792856  -1.087601  -793.503840
0.75000   -2.134367  -61.545727    0.637314
 4.792856  -1.882283  -716.760983
1.00000   -2.134367  -61.545727    0.637314
 4.792856  -2.676965  -640.018125

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.134367   61.545727   -0.637314
-4.792856  -0.501762   946.989556
0.25000    2.134367   61.545727   -0.637314
-4.792856   0.292919   870.246698
0.50000    2.134367   61.545727   -0.637314
-4.792856   1.087601   793.503840
0.75000    2.134367   61.545727   -0.637314
-4.792856   1.882283   716.760983
1.00000    2.134367   61.545727   -0.637314
-4.792856   2.676965   640.018125

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    6.089817   61.545727    0.637314
 4.792856   1.526027   946.989556
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                  Page
<          UNEQUAL          SETTLEMENT          >
                                   130

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.25000    6.089817   61.545727    0.637314
 4.792856   1.033617   870.246698
0.50000    6.089817   61.545727    0.637314
 4.792856   1.087601   793.503840
0.75000    6.089817   61.545727    0.637314
 4.792856   1.882283   716.760983
1.00000    6.089817   61.545727    0.637314
 4.792856   2.676965   640.018125

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.239239  -61.545727   -0.637314
-4.792856  -1.356855  -946.989556
0.25000   -5.239239  -61.545727   -0.637314
-4.792856  -0.991555  -870.246698
0.50000   -5.239239  -61.545727   -0.637314
-4.792856  -1.254273  -793.503840
0.75000   -5.239239  -61.545727   -0.637314
-4.792856  -1.882283  -716.760983
1.00000   -5.239239  -61.545727   -0.637314
-4.792856  -2.676965  -640.018125

ELEM       36 ================== LENGTH
=    4.987679

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.284517  -1.442949   -0.001007
 0.090086  -0.275516  -31.421463
0.25000   -0.284517  -1.442949   -0.001007
 0.090086  -0.274260  -29.622220
0.50000   -0.284517  -1.442949   -0.001007
 0.090086  -0.273004  -27.822981
0.75000   -0.284517  -1.442949   -0.001007
 0.090086  -0.271749  -26.023740
1.00000   -0.284517  -1.442949   -0.001007
 0.090086  -0.270493  -24.224498

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.291899   6.724306   -0.008204
-0.422790  1.010875  146.450672
0.25000    1.291899   6.724306   -0.008204
-0.422790  1.021106  138.066001
0.50000    1.291899   6.724306   -0.008204
-0.422790  1.031336  129.681330
0.75000    1.291899   6.724306   -0.008204
-0.422790  1.041566  121.296659
1.00000    1.291899   6.724306   -0.008204
-0.422790  1.051796  112.911988

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.021628  -22.253272    0.121946
-0.082607  -1.815645  -486.141904
0.25000    1.021628  -22.253272    0.121946
-0.082607  -1.967702  -458.393858
0.50000    1.021628  -22.253272    0.121946
-0.082607  -2.119758  -430.645812
0.75000    1.021628  -22.253272    0.121946
-0.082607  -2.271815  -402.897767
1.00000    1.021628  -22.253272    0.121946
-0.082607  -2.423871  -375.149721

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -4.814422   42.463561   -0.441177
-3.484905   0.661008  574.122815
0.25000   -4.814422   42.463561   -0.441177
-3.484905   1.211120  521.174159
0.50000   -4.814422   42.463561   -0.441177
-3.484905   1.761233  468.225502
0.75000   -4.814422   42.463561   -0.441177
-3.484905   2.311346  415.276845
1.00000   -4.814422   42.463561   -0.441177
-3.484905   2.861458  362.328189
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                  Page
<          UNEQUAL          SETTLEMENT          >
                                   131

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -3.409118  -38.218651    0.370055
 3.320308   0.719342 -122.552189
0.25000   -3.409118  -38.218651    0.370055
 3.320308   0.257913  -74.896595
0.50000   -3.409118  -38.218651    0.370055
 3.320308  -0.203516  -27.241001
0.75000   -3.409118  -38.218651    0.370055
 3.320308  -0.664944   20.414593
1.00000   -3.409118  -38.218651    0.370055
 3.320308  -1.126373   68.070187

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    6.194530   12.727004   -0.041612
 0.579908  -0.300064  -80.457930
0.25000    6.194530   12.727004   -0.041612
 0.579908  -0.248177  -96.327484
0.50000    6.194530   12.727004   -0.041612
 0.579908  -0.196290  -112.197038
0.75000    6.194530   12.727004   -0.041612
 0.579908  -0.144404  -128.066591
1.00000    6.194530   12.727004   -0.041612
 0.579908  -0.092517  -143.936145

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -2.672008  -61.914872    0.490993
 3.327787  -1.371820  -640.115556
0.25000   -2.672008  -61.914872    0.490993
 3.327787  -1.984049  -562.912675
0.50000   -2.672008  -61.914872    0.490993
 3.327787  -2.596279  -485.709794
0.75000   -2.672008  -61.914872    0.490993
 3.327787  -3.208508  -408.506913
1.00000   -2.672008  -61.914872    0.490993
 3.327787  -3.820737  -331.304032

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.672008   61.914872   -0.490993
-3.327787  1.371820   640.115556
0.25000    2.672008   61.914872   -0.490993
-3.327787  1.984049   562.912675
0.50000    2.672008   61.914872   -0.490993
-3.327787  2.596279   485.709794
0.75000    2.672008   61.914872   -0.490993
-3.327787  3.208508   408.506913
1.00000    2.672008   61.914872   -0.490993
-3.327787  3.820737   331.304032

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    6.194530   61.914872    0.490993
 3.327787   1.371820  640.115556
0.25000    6.194530   61.914872    0.490993
 3.327787   1.984049  562.912675
0.50000    6.194530   61.914872    0.490993
 3.327787   2.596279  485.709794
0.75000    6.194530   61.914872    0.490993
 3.327787   3.208508  415.276845
1.00000    6.194530   61.914872    0.490993
 3.327787   3.820737  362.328189

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -4.814422  -61.914872   -0.490993
-3.484905  -1.815645  -640.115556
0.25000   -4.814422  -61.914872   -0.490993
-3.484905  -1.984049  -562.912675
0.50000   -4.814422  -61.914872   -0.490993
-3.484905  -2.596279  -485.709794
0.75000   -4.814422  -61.914872   -0.490993
-3.484905  -3.208508  -408.506913
1.00000   -4.814422  -61.914872   -0.490993
-3.484905  -3.820737  -331.304032
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                                  Page
<          UNEQUAL          SETTLEMENT          >
                                   132

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       37 ================== LENGTH
=    4.987874

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.290648  -1.447012   0.011185
 0.009670  -0.255653  -24.225638
0.25000   -0.290648  -1.447012   0.011185
 0.009670  -0.269601  -22.421259
0.50000   -0.290648  -1.447012   0.011185
 0.009670  -0.283548  -20.616880
0.75000   -0.290648  -1.447012   0.011185
 0.009670  -0.297496  -18.812501
1.00000   -0.290648  -1.447012   0.011185
 0.009670  -0.311444  -17.008122

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.322277   6.744127   -0.064711
-0.051347  0.978205  112.917590
0.25000    1.322277   6.744127   -0.064711
-0.051347  1.058897  104.507875
0.50000    1.322277   6.744127   -0.064711
-0.051347  1.139589   96.098161
0.75000    1.322277   6.744127   -0.064711
-0.051347  1.220281   87.688447
1.00000    1.322277   6.744127   -0.064711
-0.051347  1.300973   79.278733

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.965193  -22.405156    0.025214
-1.407062  -2.286043  -375.153972
0.25000    0.965193  -22.405156    0.025214
-1.407062  -2.317484  -347.215448
0.50000    0.965193  -22.405156    0.025214
-1.407062  -2.348926  -319.276924
0.75000    0.965193  -22.405156    0.025214
-1.407062  -2.380367  -291.338400
1.00000    0.965193  -22.405156    0.025214
-1.407062  -2.411809  -263.399877

LOAD      -P3 ------------------
```

```
 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.313290   42.665597   -0.199324
-2.163812   1.646945  362.415561
 0.25000  -4.313290   42.665597   -0.199324
-2.163812   1.894596  309.212905
 0.50000  -4.313290   42.665597   -0.199324
-2.163812   2.143147  256.010249
 0.75000  -4.313290   42.665597   -0.199324
-2.163812   2.391698  202.807593
 1.00000  -4.313290   42.665597   -0.199324
-2.163812   2.640248  149.604937

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.966617  -38.232763    0.329271
 3.580063   0.224736   67.971308
 0.25000  -3.966617  -38.232763    0.329271
 3.580063  -0.185855  115.646360
 0.50000  -3.966617  -38.232763    0.329271
 3.580063  -0.596446  163.321412
 0.75000  -3.966617  -38.232763    0.329271
 3.580063  -1.007036  210.996464
 1.00000  -3.966617  -38.232763    0.329271
 3.580063  -1.417627  258.671516

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.283085   12.675207   -0.101636
 0.032487  -0.307291  -143.924849
 0.25000   6.283085   12.675207   -0.101636
 0.032487  -0.180553  -159.730433
 0.50000   6.283085   12.675207   -0.101636
 0.032487  -0.053816  -175.536017
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL              SETTLEMENT              >
                                       133

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000   6.283085   12.675207   -0.101636
 0.032487   0.072921  -191.341602
 1.00000   6.283085   12.675207   -0.101636
 0.032487   0.199658  -207.147186

 LOAD   -2N+1- ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.292072  -62.084931    0.365671
 2.182672  -2.316960  -331.408302
 0.25000  -3.292072  -62.084931    0.365671
 2.182672  -2.772940  -253.990347
 0.50000  -3.292072  -62.084931    0.365671
 2.182672  -3.228920  -176.572392
 0.75000  -3.292072  -62.084931    0.365671
 2.182672  -3.684900  -99.154438
 1.00000  -3.292072  -62.084931    0.365671
 2.182672  -4.140880  -21.736483

 LOAD   -2N+2- ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   3.292072   62.084931   -0.365671
-2.182672   2.316960   331.408302
 0.25000   3.292072   62.084931   -0.365671
-2.182672   2.772940   253.990347
 0.50000   3.292072   62.084931   -0.365671
-2.182672   3.228920   176.572392
 0.75000   3.292072   62.084931   -0.365671
-2.182672   3.684900   99.154438
 1.00000   3.292072   62.084931   -0.365671
-2.182672   4.140880   21.736483

 COMB  SETTLE ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.283085   62.084931    0.365671
 3.580063   2.316960  362.415561
 0.25000   6.283085   62.084931    0.365671
 3.580063   2.772940  309.212905
 0.50000   6.283085   62.084931    0.365671
 3.580063   3.228920  256.010249
 0.75000   6.283085   62.084931    0.365671
 3.580063   3.684900  210.996464
 1.00000   6.283085   62.084931    0.365671
 3.580063   4.140880  258.671516

 COMB  SETTLE ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.313290   -62.084931   -0.365671
-2.182672  -2.316960  -375.153972
 0.25000  -4.313290   -62.084931   -0.365671
-2.182672  -2.772940  -347.215448
 0.50000  -4.313290   -62.084931   -0.365671
-2.182672  -3.228920  -319.276924
 0.75000  -4.313290   -62.084931   -0.365671
-2.182672  -3.684900  -291.338400
 1.00000  -4.313290   -62.084931   -0.365671
-2.182672  -4.140880  -263.399877

 ELEM        38 ================== LENGTH
=     4.987099

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.300223   -1.448743    0.037007
-0.020824  -0.288113   -17.009481
 0.25000  -0.300223   -1.448743    0.037007
-0.020824  -0.334252   -15.203225
 0.50000  -0.300223   -1.448743    0.037007
-0.020824  -0.380391   -13.396968
 0.75000  -0.300223   -1.448743    0.037007
-0.020824  -0.426531   -11.590712
 1.00000  -0.300223   -1.448743    0.037007
-0.020824  -0.472670   -9.784455
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL              SETTLEMENT              >
                                       134

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.368889    6.752614   -0.184841
 0.089332   1.187360   79.285390
 0.25000   1.368889    6.752614   -0.184841
 0.089332   1.417815   70.866402
 0.50000   1.368889    6.752614   -0.184841
 0.089332   1.648270   62.447414
 0.75000   1.368889    6.752614   -0.184841
 0.089332   1.878726   54.028426
 1.00000   1.368889    6.752614   -0.184841
 0.089332   2.109181   45.609438

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.855748  -22.466450   -0.057258
-2.433878  -2.147145  -263.406403
 0.25000   0.855748  -22.466450   -0.057258
-2.433878  -2.075757  -235.395800
 0.50000   0.855748  -22.466450   -0.057258
-2.433878  -2.004368  -207.385198
 0.75000   0.855748  -22.466450   -0.057258
-2.433878  -1.932980  -179.374595
 1.00000   0.855748  -22.466450   -0.057258
-2.433878  -1.861592  -151.363992

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.771564   42.646528    0.091075
-0.970011   1.330052   149.691028
 0.25000  -3.771564   42.646528    0.091075
-0.970011   1.216502   96.520414
 0.50000  -3.771564   42.646528    0.091075
-0.970011   1.102951   43.349801
 0.75000  -3.771564   42.646528    0.091075
-0.970011   0.989401   -9.820813
 1.00000  -3.771564   42.646528    0.091075
-0.970011   0.875851   -62.991427

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.496797   -38.037454    0.328037
 3.852077  -0.133141   258.576487
 0.25000  -4.496797   -38.037454    0.328037
 3.852077  -0.542129   306.000623
 0.50000  -4.496797   -38.037454    0.328037
 3.852077  -0.951117   353.424760
 0.75000  -4.496797   -38.037454    0.328037
 3.852077  -1.360105   400.848897
 1.00000  -4.496797   -38.037454    0.328037
 3.852077  -1.769093   448.273034

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.343947   12.553506   -0.214019
-0.516697   0.050987  -207.137021
 0.25000   6.343947   12.553506   -0.214019
-0.516697   0.317821  -222.788415
 0.50000   6.343947   12.553506   -0.214019
-0.516697   0.584655  -238.439809
 0.75000   6.343947   12.553506   -0.214019
-0.516697   0.851489  -254.091203
 1.00000   6.343947   12.553506   -0.214019
-0.516697   1.118323  -269.742597

 LOAD   -2N+1- ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.941272   -61.952648    0.307785
 1.397376  -2.568399   -21.839397
 0.25000  -3.941272   -61.952648    0.307785
 1.397376  -2.952138   55.401599
 0.50000  -3.941272   -61.952648    0.307785
 1.397376  -3.335877   132.642595
 0.75000  -3.941272   -61.952648    0.307785
 1.397376  -3.719616   209.883591
 1.00000  -3.941272   -61.952648    0.307785
 1.397376  -4.103355   287.124587
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL              SETTLEMENT              >
                                       135

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD   -2N+2- ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   3.941272   61.952648   -0.307785
-1.397376   2.568399   21.839397
 0.25000   3.941272   61.952648   -0.307785
-1.397376   2.952138   -55.401599
 0.50000   3.941272   61.952648   -0.307785
-1.397376   3.335877   -132.642595
 0.75000   3.941272   61.952648   -0.307785
-1.397376   3.719616   -209.883591
 1.00000   3.941272   61.952648   -0.307785
-1.397376   4.103355   -287.124587

 COMB  SETTLE ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.343947   61.952648    0.328037
 3.852077   2.568399  258.576487
 0.25000   6.343947   61.952648    0.328037
 3.852077   2.952138  306.000623
 0.50000   6.343947   61.952648    0.328037
 3.852077   3.335877  353.424760
 0.75000   6.343947   61.952648    0.328037
 3.852077   3.719616  400.848897
 1.00000   6.343947   61.952648    0.328037
 3.852077   4.103355  448.273034

 COMB  SETTLE ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.496797   -61.952648   -0.307785
-2.433878  -2.568399  -263.406403
 0.25000  -4.496797   -61.952648   -0.307785
-2.433878  -2.952138  -235.395800
 0.50000  -4.496797   -61.952648   -0.307785
-2.433878  -3.335877  -238.439809
 0.75000  -4.496797   -61.952648   -0.307785
-2.433878  -3.719616  -254.091203
 1.00000  -4.496797   -61.952648   -0.307785
-2.433878  -4.103355  -287.124587

 ELEM        39 ================== LENGTH
=     4.987497

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.311720   -1.447854    0.059148
-0.001808  -0.444377   -9.786091
 0.25000  -0.311720   -1.447854    0.059148
-0.001808  -0.518127   -7.980799
 0.50000  -0.311720   -1.447854    0.059148
-0.001808  -0.591877   -6.175507
 0.75000  -0.311720   -1.447854    0.059148
-0.001808  -0.665628   -4.370215
 1.00000  -0.311720   -1.447854    0.059148
-0.001808  -0.739378   -2.564922

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.424573    6.748669   -0.287943
 0.000492   1.972149   45.617412
 0.25000   1.424573    6.748669   -0.287943
 0.000492   2.331178   37.202671
 0.50000   1.424573    6.748669   -0.287943
 0.000492   2.690207   28.787930
 0.75000   1.424573    6.748669   -0.287943
 0.000492   3.049236   20.373188
 1.00000   1.424573    6.748669   -0.287943
 0.000492   3.408264   11.958447

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.712756  -22.458621   -0.104098
-3.277466  -1.516755  -151.370324
 0.25000   0.712756  -22.458621   -0.104098
-3.277466  -1.386958  -123.367251
 0.50000   0.712756  -22.458621   -0.104098
-3.277466  -1.257161  -95.364178
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL              SETTLEMENT              >
                                       136

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.75000   0.712756  -22.458621   -0.104098
-3.277466  -1.127364  -67.361104
 1.00000   0.712756  -22.458621   -0.104098
-3.277466  -0.997567  -39.358031

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -3.224376   42.467630    0.289064
 0.186198  -0.444053   -62.910412
 0.25000  -3.224376   42.467630    0.289064
 0.186198  -0.804480   -115.862202
 0.50000  -3.224376   42.467630    0.289064
 0.186198  -1.164907   -168.813992
 0.75000  -3.224376   42.467630    0.289064
 0.186198  -1.525334   -221.765782
 1.00000  -3.224376   42.467630    0.289064
 0.186198  -1.885761   -274.717571

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.966366   -37.661811    0.368785
 4.211275  -0.631250   448.184665
 0.25000  -4.966366   -37.661811    0.368785
 4.211275  -1.091079   495.144203
 0.50000  -4.966366   -37.661811    0.368785
 4.211275  -1.550908   542.103741
 0.75000  -4.966366   -37.661811    0.368785
 4.211275  -2.010737   589.063279
 1.00000  -4.966366   -37.661811    0.368785
 4.211275  -2.470566   636.022817

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.365132   12.351986   -0.324957
-1.118691   1.064286  -269.735249
 0.25000   6.365132   12.351986   -0.324957
-1.118691   1.469466  -285.136622
 0.50000   6.365132   12.351986   -0.324957
-1.118691   1.874646  -300.537994
 0.75000   6.365132   12.351986   -0.324957
-1.118691   2.279827  -315.939367
 1.00000   6.365132   12.351986   -0.324957
-1.118691   2.685007  -331.340739

 LOAD   -2N+1- ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.565329   -61.568286    0.323836
 0.932001  -2.592381   287.028250
 0.25000  -4.565329   -61.568286    0.323836
 0.932001  -2.996164   363.796153
 0.50000  -4.565329   -61.568286    0.323836
 0.932001  -3.399946   440.564057
 0.75000  -4.565329   -61.568286    0.323836
 0.932001  -3.803728   517.331960
 1.00000  -4.565329   -61.568286    0.323836
 0.932001  -4.207510   594.099864

 LOAD   -2N+2- ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   4.565329   61.568286   -0.323836
-0.932001   2.592381  -287.028250
 0.25000   4.565329   61.568286   -0.323836
-0.932001   2.996164  -363.796153
 0.50000   4.565329   61.568286   -0.323836
-0.932001   3.399946  -440.564057
 0.75000   4.565329   61.568286   -0.323836
-0.932001   3.803728  -517.331960
 1.00000   4.565329   61.568286   -0.323836
-0.932001   4.207510  -594.099864

 COMB  SETTLE ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.365132   61.568286    0.368785
 4.211275   2.592381  448.184665
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL              SETTLEMENT              >
                                       137

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T         M2          M3
 0.25000   6.365132   61.568286    0.368785
 4.211275   2.996164  495.144203
 0.50000   6.365132   61.568286    0.368785
 4.211275   3.399946  542.103741
 0.75000   6.365132   61.568286    0.368785
 4.211275   3.803728  589.063279
 1.00000   6.365132   61.568286    0.368785
 4.211275   4.207510  636.022817

 COMB  SETTLE ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -4.966366   -61.568286   -0.324957
-3.277466  -2.592381  -287.028250
 0.25000  -4.966366   -61.568286   -0.324957
-3.277466  -2.996164  -363.796153
 0.50000  -4.966366   -61.568286   -0.324957
-3.277466  -3.399946  -440.564057
 0.75000  -4.966366   -61.568286   -0.324957
-3.277466  -3.803728  -517.331960
 1.00000  -4.966366   -61.568286   -0.324957
-3.277466  -4.207510  -594.099864

 ELEM        40 ================== LENGTH
=     4.988083

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.323490   -1.448679    0.007365
 0.105089  -0.710511   -2.566927
 0.25000  -0.323490   -1.448679    0.007365
 0.105089  -0.719695   -0.760394
 0.50000  -0.323490   -1.448679    0.007365
 0.105089  -0.728878    1.046139
 0.75000  -0.323490   -1.448679    0.007365
 0.105089  -0.738062    2.852672
 1.00000  -0.323490   -1.448679    0.007365
 0.105089  -0.747246    4.659205

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.481566    6.752408   -0.047444
-0.496290   3.268442   11.968141
 0.25000   1.481566    6.752408   -0.047444
-0.496290   3.327606    3.547748
 0.50000   1.481566    6.752408   -0.047444
-0.496290   3.386770   -4.872644
 0.75000   1.481566    6.752408   -0.047444
-0.496290   3.445934  -13.293037
 1.00000   1.481566    6.752408   -0.047444
-0.496290   3.505098  -21.713429

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   0.556830  -22.412690   -0.011486
-3.842160  -0.621432  -39.361964
 0.25000   0.556830  -22.412690   -0.011486
-3.842160  -0.607109  -11.412875
 0.50000   0.556830  -22.412690   -0.011486
-3.842160  -0.592786   16.536215
 0.75000   0.556830  -22.412690   -0.011486
-3.842160  -0.578462   44.485304
 1.00000   0.556830  -22.412690   -0.011486
-3.842160  -0.564139   72.434394

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -2.702908   41.936907   -0.258373
 1.937151  -3.145097  -274.647924
 0.25000  -2.702908   41.936907   -0.258373
 1.937151  -2.822900  -326.944118
 0.50000  -2.702908   41.936907   -0.258373
 1.937151  -2.500704  -379.240312
 0.75000  -2.702908   41.936907   -0.258373
 1.937151  -2.178508  -431.536506
 1.00000  -2.702908   41.936907   -0.258373
 1.937151  -1.856311  -483.832701
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL              SETTLEMENT              >
                                       138

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -5.352356   -36.708821    0.514875
 3.687174  -1.533019   635.946346
 0.25000  -5.352356   -36.708821    0.514875
 3.687174  -2.175079   681.723008
 0.50000  -5.352356   -36.708821    0.514875
 3.687174  -2.817138   727.499670
 0.75000  -5.352356   -36.708821    0.514875
 3.687174  -3.459198   773.276332
 1.00000  -5.352356   -36.708821    0.514875
 3.687174  -4.101257   819.052993

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.340359   11.880875   -0.204936
-1.390963   2.741617  -331.337572
 0.25000   6.340359   11.880875   -0.204936
-1.390963   2.997177  -346.153370
 0.50000   6.340359   11.880875   -0.204936
-1.390963   3.252737  -360.969067
 0.75000   6.340359   11.880875   -0.204936
-1.390963   3.508296  -375.784765
 1.00000   6.340359   11.880875   -0.204936
-1.390963   3.763856  -390.600462

 LOAD   -2N+1- ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -5.119017   -60.570189    0.510753
-0.049897   -2.864962   594.017455
 0.25000  -5.119017   -60.570189    0.510753
-0.049897   -3.501882   669.549740
 0.50000  -5.119017   -60.570189    0.510753
-0.049897   -4.138802   745.082024
 0.75000  -5.119017   -60.570189    0.510753
-0.049897   -4.775722   820.614308
 1.00000  -5.119017   -60.570189    0.510753
-0.049897   -5.412642   896.146592

 LOAD   -2N+2- ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   5.119017   60.570189   -0.510753
 0.049897   2.864962  -594.017455
 0.25000   5.119017   60.570189   -0.510753
 0.049897   3.501882  -669.549740
 0.50000   5.119017   60.570189   -0.510753
 0.049897   4.138802  -745.082024
 0.75000   5.119017   60.570189   -0.510753
 0.049897   4.775722  -820.614308
 1.00000   5.119017   60.570189   -0.510753
 0.049897   5.412642  -896.146592

 COMB  SETTLE ------------------ MAX

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   6.340359   60.570189    0.514875
 3.687174   3.268442  635.946346
 0.25000   6.340359   60.570189    0.514875
 3.687174   3.501882  681.723008
 0.50000   6.340359   60.570189    0.514875
 3.687174   4.138802  745.082024
 0.75000   6.340359   60.570189    0.514875
 3.687174   4.775722  820.614308
 1.00000   6.340359   60.570189    0.514875
 3.687174   5.412642  896.146592

 COMB  SETTLE ------------------ MIN

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -5.352356   -60.570189   -0.510753
-3.842160   -3.145097  -594.017455
 0.25000  -5.352356   -60.570189   -0.510753
-3.842160   -3.501882  -669.549740
 0.50000  -5.352356   -60.570189   -0.510753
-3.842160   -4.138802  -745.082024
 0.75000  -5.352356   -60.570189   -0.510753
-3.842160   -4.775722  -820.614308
 1.00000  -5.352356   -60.570189   -0.510753
-3.842160   -5.412642  -896.146592
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL              SETTLEMENT              >
                                       139

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM        41 ================== LENGTH
=     4.987670

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000  -0.334768   -1.460298   -0.264146
 0.370732  -0.721286    4.656502
 0.25000  -0.334768   -1.460298   -0.264146
 0.370732  -0.391917    6.477373
 0.50000  -0.334768   -1.460298   -0.264146
 0.370732  -0.062548    8.298244
 0.75000  -0.334768   -1.460298   -0.264146
 0.370732   0.266820   10.119115
 1.00000  -0.334768   -1.460298   -0.264146
 0.370732   0.596189   11.939986

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
 0.00000   1.536234    6.805698    1.214779
-1.729647   3.378886  -21.700499
 0.25000   1.536234    6.805698    1.214779
-1.729647   1.864157  -30.186645
 0.50000   1.536234    6.805698    1.214779
-1.729647   0.349428  -38.672790
 0.75000   1.536234    6.805698    1.214779
-1.729647  -1.165301  -47.158936
 1.00000   1.536234    6.805698    1.214779
-1.729647  -2.680030  -55.645081

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T         M2          M3
```

0.00000	0.405168	-22.265845	0.441522
-4.333038	-0.195250	72.432031	
0.25000	0.405168	-22.265845	0.441522
-4.333038	-0.745791	100.195706	
0.50000	0.405168	-22.265845	0.441522
-4.333038	-1.296333	127.959381	
0.75000	0.405168	-22.265845	0.441522
-4.333038	-1.846875	155.723056	
1.00000	0.405168	-22.265845	0.441522
-4.333038	-2.397417	183.486731	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-2.235093	40.883142	-2.902013
5.432634	-3.003509	-483.781801	
0.25000	-2.235093	40.883142	-2.902013
5.432634	-0.615062	-534.759712	
0.50000	-2.235093	40.883142	-2.902013
5.432634	4.233634	-585.737622	
0.75000	-2.235093	40.883142	-2.902013
5.432634	7.852205	-636.715533	
1.00000	-2.235093	40.883142	-2.902013
5.432634	11.470777	-687.693444	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-5.639008	-35.152398	0.885326
1.554563	-3.400776	818.998411	
0.25000	-5.639008	-35.152398	0.885326
1.554563	-4.504704	862.830557	
0.50000	-5.639008	-35.152398	0.885326
1.554563	-5.608632	906.662702	
0.75000	-5.639008	-35.152398	0.885326
1.554563	-6.712560	950.494847	
1.00000	-5.639008	-35.152398	0.885326
1.554563	-7.816488	994.326992	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	6.267468	11.189701	0.624533
-1.295244	3.941935	-390.604644	
0.25000	6.267468	11.189701	0.624533
-1.295244	3.163194	-404.557279	
0.50000	6.267468	11.189701	0.624533
-1.295244	2.384452	-418.509914	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
140

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	6.267468	11.189701	0.624533
-1.295244	1.605711	-432.462549	
1.00000	6.267468	11.189701	0.624533
-1.295244	0.826969	-446.415184	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-5.568609	-58.878541	1.062701
-2.407743	-4.317312	896.086944	
0.25000	-5.568609	-58.878541	1.062701
-2.407743	-5.642413	969.503635	
0.50000	-5.568609	-58.878541	1.062701
-2.407743	-6.967514	1042.920	
0.75000	-5.568609	-58.878541	1.062701
-2.407743	-8.292615	1116.337	
1.00000	-5.568609	-58.878541	1.062701
-2.407743	-9.617716	1189.754	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	5.568609	58.878541	-1.062701
2.407743	4.317312	-896.086944	
0.25000	5.568609	58.878541	-1.062701
2.407743	5.642413	-969.503635	
0.50000	5.568609	58.878541	-1.062701
2.407743	6.967514	-1042.920	
0.75000	5.568609	58.878541	-1.062701
2.407743	8.292615	-1116.337	
1.00000	5.568609	58.878541	-1.062701
2.407743	9.617716	-1189.754	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	6.267468	58.878541	1.214779
5.432634	4.317312	896.086944	
0.25000	6.267468	58.878541	1.214779
5.432634	5.642413	969.503635	
0.50000	6.267468	58.878541	1.214779
5.432634	6.967514	1042.920	
0.75000	6.267468	58.878541	1.214779
5.432634	8.292615	1116.337	
1.00000	6.267468	58.878541	1.214779
5.432634	11.470777	1189.754	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-5.639008	-58.878541	-2.902013
-4.333038	-4.317312	-896.086944	
0.25000	-5.639008	-58.878541	-2.902013
-4.333038	-5.642413	-969.503635	
0.50000	-5.639008	-58.878541	-2.902013
-4.333038	-6.967514	-1042.920	
0.75000	-5.639008	-58.878541	-2.902013
-4.333038	-8.292615	-1116.337	
1.00000	-5.639008	-58.878541	-2.902013
-4.333038	-9.617716	-1189.754	

ELEM 42 ========== LENGTH = 3.491179

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.347297	-1.498401	-0.896476
0.892360	0.621372	11.936163	
0.25000	-0.347297	-1.498401	-0.896476
0.892360	1.403812	13.243959	
0.50000	-0.347297	-1.498401	-0.896476
0.892360	2.186252	14.551756	
0.75000	-0.347297	-1.498401	-0.896476
0.892360	2.968691	15.859553	
1.00000	-0.347297	-1.498401	-0.896476
0.892360	3.751131	17.167350	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
141

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	1.596760	6.980687	4.155371
-4.149437	-2.802636	-55.626958	
0.25000	1.596760	6.980687	4.155371
-4.149437	-6.429422	-61.719666	
0.50000	1.596760	6.980687	4.155371
-4.149437	-10.056209	-67.812373	
0.75000	1.596760	6.980687	4.155371
-4.149437	-13.682995	-73.905081	
1.00000	1.596760	6.980687	4.155371
-4.149437	-17.309781	-79.997788	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.262452	-21.983777	1.457336
-5.096937	-2.050644	183.484440	
0.25000	0.262452	-21.983777	1.457336
-5.096937	-3.322599	202.671766	
0.50000	0.262452	-21.983777	1.457336
-5.096937	-4.594555	221.859093	
0.75000	0.262452	-21.983777	1.457336
-5.096937	-5.866510	241.046419	
1.00000	0.262452	-21.983777	1.457336
-5.096937	-7.138465	260.233746	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-1.827202	39.112702	-8.901137
12.134962	10.454111	-687.663028	
0.25000	-1.827202	39.112702	-8.901137
12.134962	18.222978	-721.800392	
0.50000	-1.827202	39.112702	-8.901137
12.134962	25.991844	-755.937756	
0.75000	-1.827202	39.112702	-8.901137
12.134962	33.760711	-790.075120	
1.00000	-1.827202	39.112702	-8.901137
12.134962	41.529577	-824.212484	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-5.822540	-32.877626	1.571508
-2.912968	-7.369856	994.297991	
0.25000	-5.822540	-32.877626	1.571508
-2.912968	-8.741460	1022.993	
0.50000	-5.822540	-32.877626	1.571508
-2.912968	-10.113064	1051.689	
0.75000	-5.822540	-32.877626	1.571508
-2.912968	-11.484668	1080.384	
1.00000	-5.822540	-32.877626	1.571508
-2.912968	-12.856272	1109.080	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	6.137827	10.266415	2.613399
-0.867981	1.147653	-446.426607	
0.25000	6.137827	10.266415	2.613399
-0.867981	-1.133308	-455.389081	
0.50000	6.137827	10.266415	2.613399
-0.867981	-3.414269	-464.349555	
0.75000	6.137827	10.266415	2.613399
-0.867981	-5.695230	-473.310030	
1.00000	6.137827	10.266415	2.613399
-0.867981	-7.976191	-482.270504	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-5.907385	-56.359804	2.132367
-7.117544	-8.799128	1189.719	
0.25000	-5.907385	-56.359804	2.132367
-7.117544	-10.660248	1238.909	
0.50000	-5.907385	-56.359804	2.132367
-7.117544	-12.521367	1288.100	
0.75000	-5.907385	-56.359804	2.132367
-7.117544	-14.382486	1337.290	
1.00000	-5.907385	-56.359804	2.132367
-7.117544	-16.243605	1386.481	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
142

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	5.907385	56.359804	-2.132367
7.117544	8.799128	-1189.719	
0.25000	5.907385	56.359804	-2.132367
7.117544	10.660248	-1238.909	
0.50000	5.907385	56.359804	-2.132367
7.117544	12.521367	-1288.100	
0.75000	5.907385	56.359804	-2.132367
7.117544	14.382486	-1337.290	
1.00000	5.907385	56.359804	-2.132367
7.117544	16.243605	-1386.481	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	6.137827	56.359804	4.155371
12.134962	10.454111	1189.719	
0.25000	6.137827	56.359804	4.155371
12.134962	18.222978	1238.909	
0.50000	6.137827	56.359804	4.155371
12.134962	25.991844	1288.100	
0.75000	6.137827	56.359804	4.155371
12.134962	33.760711	1337.290	
1.00000	6.137827	56.359804	4.155371
12.134962	41.529577	1386.481	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-5.907385	-56.359804	-8.901137
-7.117544	-8.799128	-1189.719	
0.25000	-5.907385	-56.359804	-8.901137
-7.117544	-10.660248	-1238.909	
0.50000	-5.907385	-56.359804	-8.901137
-7.117544	-12.521367	-1288.100	
0.75000	-5.907385	-56.359804	-8.901137
-7.117544	-14.382486	-1337.290	
1.00000	-5.907385	-56.359804	-8.901137
-7.117544	-17.309781	-1386.481	

ELEM 43 ========== LENGTH = 4.987727

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.093935	0.400738	0.722432
-1.217661	3.779821	17.485406	
0.25000	-0.093935	0.400738	0.722432
-1.217661	2.878997	16.985713	
0.50000	-0.093935	0.400738	0.722432
-1.217661	1.978173	16.486021	
0.75000	-0.093935	0.400738	0.722432
-1.217661	1.077350	15.986328	
1.00000	-0.093935	0.400738	0.722432
-1.217661	0.176526	15.486636	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.422518	-1.864034	-3.356852
5.655884	-17.448366	-81.474354	
0.25000	0.422518	-1.864034	-3.356852
5.655884	-13.262601	-79.150031	
0.50000	0.422518	-1.864034	-3.356852
5.655884	-9.076836	-76.825708	
0.75000	0.422518	-1.864034	-3.356852
5.655884	-4.891071	-74.501385	
1.00000	0.422518	-1.864034	-3.356852
5.655884	-0.705306	-72.177063	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.299864	4.674114	-1.233166
-1.112928	-6.846129	259.701945	
0.25000	-0.299864	4.674114	-1.233166
-1.112928	-5.306455	253.873644	
0.50000	-0.299864	4.674114	-1.233166
-1.112928	-3.770782	248.045344	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
143

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	-0.299864	4.674114	-1.233166
-1.112928	-2.233108	242.217043	
1.00000	-0.299864	4.674114	-1.233166
-1.112928	-0.695434	236.388742	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	1.123761	-12.941140	7.235486
-7.319198	40.728323	-821.034568	
0.25000	1.123761	-12.941140	7.235486
-7.319198	31.706166	-804.897851	
0.50000	1.123761	-12.941140	7.235486
-7.319198	22.684009	-788.761134	
0.75000	1.123761	-12.941140	7.235486
-7.319198	13.661852	-772.624417	
1.00000	1.123761	-12.941140	7.235486
-7.319198	4.639695	-756.487700	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-6.351578	17.506329	-1.502570
-3.600467	-12.632490	1108.561	
0.25000	-6.351578	17.506329	-1.502570
-3.600467	-10.758888	1086.732	
0.50000	-6.351578	17.506329	-1.502570
-3.600467	-8.885287	1064.902	
0.75000	-6.351578	17.506329	-1.502570
-3.600467	-7.011685	1043.073	
1.00000	-6.351578	17.506329	-1.502570
-3.600467	-5.138083	1021.244	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	5.199098	-7.776007	-1.865331
7.594371	-7.581159	-483.239184	
0.25000	5.199098	-7.776007	-1.865331
7.594371	-5.255218	-473.543034	
0.50000	5.199098	-7.776007	-1.865331
7.594371	-2.929278	-463.846884	
0.75000	5.199098	-7.776007	-1.865331
7.594371	-0.603338	-454.150734	
1.00000	5.199098	-7.776007	-1.865331
7.594371	1.722603	-444.454585	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-6.745377	22.581181	-2.013303
-5.931057	-15.698798	1385.748	
0.25000	-6.745377	22.581181	-2.013303
-5.931057	-13.188347	1357.591	
0.50000	-6.745377	22.581181	-2.013303
-5.931057	-10.677895	1329.434	
0.75000	-6.745377	22.581181	-2.013303
-5.931057	-8.167443	1301.277	
1.00000	-6.745377	22.581181	-2.013303
-5.931057	-5.656992	1273.119	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	6.745377	-22.581181	2.013303
5.931057	15.698798	-1385.748	
0.25000	6.745377	-22.581181	2.013303
5.931057	13.188347	-1357.591	
0.50000	6.745377	-22.581181	2.013303
5.931057	10.677895	-1329.434	
0.75000	6.745377	-22.581181	2.013303
5.931057	8.167443	-1301.277	
1.00000	6.745377	-22.581181	2.013303
5.931057	5.656992	-1273.119	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	6.745377	22.581181	7.235486
7.594371	40.728323	1385.748	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
144

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	6.745377	22.581181	7.235486
7.594371	31.706166	1357.591	
0.50000	6.745377	22.581181	7.235486
7.594371	22.684009	1329.434	
0.75000	6.745377	22.581181	7.235486
7.594371	13.661852	1301.277	
1.00000	6.745377	22.581181	7.235486
7.594371	5.656992	1273.119	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-6.745377	-22.581181	-3.356852
-7.319198	-17.448366	-1385.748	
0.25000	-6.745377	-22.581181	-3.356852
-7.319198	-13.262601	-1357.591	
0.50000	-6.745377	-22.581181	-3.356852
-7.319198	-10.677895	-1329.434	
0.75000	-6.745377	-22.581181	-3.356852
-7.319198	-8.167443	-1301.277	
1.00000	-6.745377	-22.581181	-3.356852
-7.319198	-5.656992	-1273.119	

ELEM 44 ========== LENGTH = 4.987797

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.104387	0.355426	0.170523
-0.679839	0.206958	15.489774	
0.25000	-0.104387	0.355426	0.170523
-0.679839	-0.005676	15.046575	
0.50000	-0.104387	0.355426	0.170523
-0.679839	-0.218310	14.603377	
0.75000	-0.104387	0.355426	0.170523
-0.679839	-0.430944	14.160178	
1.00000	-0.104387	0.355426	0.170523
-0.679839	-0.643578	13.716980	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.472971	-1.655288	-0.790583
3.159956	-0.851246	-72.191369	
0.25000	0.472971	-1.655288	-0.790583
3.159956	0.134571	-70.127309	
0.50000	0.472971	-1.655288	-0.790583
3.159956	1.120389	-68.063249	
0.75000	0.472971	-1.655288	-0.790583
3.159956	2.106206	-65.999189	
1.00000	0.472971	-1.655288	-0.790583
3.159956	3.092023	-63.935130	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.386121	4.899676	-0.334761
-1.157599	-0.496186	236.382744	
0.25000	-0.386121	4.899676	-0.334761
-1.157599	-0.078756	230.273096	
0.50000	-0.386121	4.899676	-0.334761
-1.157599	0.338674	224.163449	
0.75000	-0.386121	4.899676	-0.334761
-1.157599	0.756103	218.053801	
1.00000	-0.386121	4.899676	-0.334761
-1.157599	1.173533	211.944154	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	1.341577	-14.684094	1.942803
-2.205710	4.162942	-756.434484	
0.25000	1.341577	-14.684094	1.942803
-2.205710	1.744365	-738.124162	
0.50000	1.341577	-14.684094	1.942803
-2.205710	-0.678212	-719.813840	
0.75000	1.341577	-14.684094	1.942803
-2.205710	-3.100790	-701.503519	
1.00000	1.341577	-14.684094	1.942803
-2.205710	-5.523367	-683.193197	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
145

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-6.321616	19.669264	-0.865241
-6.395813	-5.224821	1021.275	
0.25000	-6.321616	19.669264	-0.865241
-6.395813	-4.145909	996.746674	
0.50000	-6.321616	19.669264	-0.865241
-6.395813	-3.066998	972.222098	
0.75000	-6.321616	19.669264	-0.865241
-6.395813	-1.988086	947.695523	
1.00000	-6.321616	19.669264	-0.865241
-6.395813	-0.909175	923.168947	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	4.997576	-8.584984	-0.122742
7.279005	2.198352	-444.521914	
0.25000	4.997576	-8.584984	-0.122742
7.279005	2.351405	-433.816874	
0.50000	4.997576	-8.584984	-0.122742
7.279005	2.504457	-423.111834	
0.75000	4.997576	-8.584984	-0.122742
7.279005	2.657510	-412.406794	
1.00000	4.997576	-8.584984	-0.122742
7.279005	2.810563	-401.701754	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-6.812124	24.924366	-1.029478
-8.233251	-5.514048	1273.148	
0.25000	-6.812124	24.924366	-1.029478
-8.233251	-4.230341	1242.068	
0.50000	-6.812124	24.924366	-1.029478
-8.233251	-2.946634	1210.989	
0.75000	-6.812124	24.924366	-1.029478
-8.233251	-1.662926	1179.910	
1.00000	-6.812124	24.924366	-1.029478
-8.233251	-0.379219	1148.830	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	6.812124	-24.924366	1.029478
8.233251	5.514048	-1273.148	
0.25000	6.812124	-24.924366	1.029478
8.233251	4.230341	-1242.068	
0.50000	6.812124	-24.924366	1.029478
8.233251	2.946634	-1210.989	
0.75000	6.812124	-24.924366	1.029478
8.233251	1.662926	-1179.910	
1.00000	6.812124	-24.924366	1.029478
8.233251	0.379219	-1148.830	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	6.812124	24.924366	1.942803
8.233251	5.514048	1273.148	
0.25000	6.812124	24.924366	1.942803
8.233251	4.230341	1242.068	
0.50000	6.812124	24.924366	1.942803
8.233251	2.946634	1210.989	
0.75000	6.812124	24.924366	1.942803
8.233251	2.657510	1179.910	
1.00000	6.812124	24.924366	1.942803
8.233251	3.092023	1148.830	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-6.812124	-24.924366	-1.029478
-8.233251	-5.514048	-1273.148	
0.25000	-6.812124	-24.924366	-1.029478
-8.233251	-4.230341	-1242.068	
0.50000	-6.812124	-24.924366	-1.029478
-8.233251	-3.066998	-1210.989	
0.75000	-6.812124	-24.924366	-1.029478
-8.233251	-3.100790	-1179.910	
1.00000	-6.812124	-24.924366	-1.029478
-8.233251	-5.523367	-1148.830	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
146

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 45 ========== LENGTH = 4.986834

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.114568	0.337322	-0.038189
-0.374254	-0.618532	13.718046	
0.25000	-0.114568	0.337322	-0.038189
-0.374254	-0.570920	13.297503	
0.50000	-0.114568	0.337322	-0.038189
-0.374254	-0.523309	12.876961	
0.75000	-0.114568	0.337322	-0.038189
-0.374254	-0.475698	12.456419	
1.00000	-0.114568	0.337322	-0.038189
-0.374254	-0.428087	12.035877	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.521989	-1.571792	0.179506
1.740539	2.971549	-63.939844	
0.25000	0.521989	-1.571792	0.179506

```
 1.740539    2.747758   -61.980277
0.50000     0.521989    -1.571792     0.179506
 1.740539    2.523967   -60.020710
0.75000     0.521989    -1.571792     0.179506
 1.740539    2.300176   -58.061143
1.00000     0.521989    -1.571792     0.179506
 1.740539    2.076384   -56.101577

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.443326    5.019843     0.014509
-0.868115   1.309995   211.940850
0.25000   -0.443326    5.019843     0.014509
-0.868115   1.291906   205.682568
0.50000   -0.443326    5.019843     0.014509
-0.868115   1.273818   199.424287
0.75000   -0.443326    5.019843     0.014509
-0.868115   1.255729   193.166005
1.00000   -0.443326    5.019843     0.014509
-0.868115   1.237640   186.907724

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.457603   -15.675568    -0.104552
-0.093997   -5.794823   -683.171088
0.25000    1.457603   -15.675568    -0.104552
-0.093997   -5.664476   -663.628224
0.50000    1.457603   -15.675568    -0.104552
-0.093997   -5.534130   -644.085360
0.75000    1.457603   -15.675568    -0.104552
-0.093997   -5.403784   -624.542496
1.00000    1.457603   -15.675568    -0.104552
-0.093997   -5.273438   -604.999633

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.168236   21.031484    -0.564631
-7.340578   -1.287923   923.224602
0.25000   -6.168236   21.031484    -0.564631
-7.340578   -0.583993   897.004473
0.50000   -6.168236   21.031484    -0.564631
-7.340578    0.119937   870.784343
0.75000   -6.168236   21.031484    -0.564631
-7.340578    0.823866   844.564214
1.00000   -6.168236   21.031484    -0.564631
-7.340578    1.527796   818.344084

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    4.746539   -9.141289     0.513357
 6.936404    3.419732   -401.772566
0.25000    4.746539   -9.141289     0.513357
 6.936404    2.779725   -390.376043
0.50000    4.746539   -9.141289     0.513357
 6.936404    2.139718   -378.979521
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    147

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.75000    4.746539   -9.141289     0.513357
 6.936404    1.499711   -367.582998
1.00000    4.746539   -9.141289     0.513357
 6.936404    0.859704   -356.186475

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.726131   26.388649    -0.588311
-8.582946   -0.596459    1148.883
0.25000   -6.726131   26.388649    -0.588311
-8.582946    0.136993   1115.985
0.50000   -6.726131   26.388649    -0.588311
-8.582946    0.870445    1083.086
0.75000   -6.726131   26.388649    -0.588311
-8.582946    1.603897    1050.187
1.00000   -6.726131   26.388649    -0.588311
-8.582946    2.337349    1017.288

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.726131   -26.388649     0.588311
 8.582946    0.596459   -1148.883
0.25000    6.726131   -26.388649     0.588311
 8.582946   -0.136993   -1115.985
0.50000    6.726131   -26.388649     0.588311
 8.582946   -0.870445   -1083.086
0.75000    6.726131   -26.388649     0.588311
 8.582946   -1.603897   -1050.187
1.00000    6.726131   -26.388649     0.588311
 8.582946   -2.337349   -1017.288

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.726131   26.388649     0.588311
 8.582946    3.419732    1148.883
0.25000    6.726131   26.388649     0.588311
 8.582946    2.779725    1115.985
0.50000    6.726131   26.388649     0.588311
 8.582946    2.523967    1083.086
0.75000    6.726131   26.388649     0.588311
 8.582946    2.300176    1050.187
1.00000    6.726131   26.388649     0.588311
 8.582946    2.337349    1017.288

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.726131   -26.388649    -0.588311
-8.582946   -5.794823   -1148.883
0.25000   -6.726131   -26.388649    -0.588311
-8.582946   -5.664476   -1115.985
0.50000   -6.726131   -26.388649    -0.588311
-8.582946   -5.534130   -1083.086
0.75000   -6.726131   -26.388649    -0.588311
-8.582946   -5.403784   -1050.187
1.00000   -6.726131   -26.388649    -0.588311
-8.582946   -5.273438   -1017.288

ELEM       46 ================== LENGTH
=     4.988071

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.122645    0.333848    -0.064190
-0.193262   -0.409379   12.036159
0.25000   -0.122645    0.333848    -0.064190
-0.193262   -0.329333   11.619845
0.50000   -0.122645    0.333848    -0.064190
-0.193262   -0.249287   11.203531
0.75000   -0.122645    0.333848    -0.064190
-0.193262   -0.169241   10.787216
1.00000   -0.122645    0.333848    -0.064190
-0.193262   -0.089195   10.370902
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    148

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.561054   -1.555884     0.300111
 0.899240    1.985778   -56.102676
0.25000    0.561054   -1.555884     0.300111
 0.899240    1.611534   -54.162461
0.50000    0.561054   -1.555884     0.300111
 0.899240    1.237290   -52.222245
0.75000    0.561054   -1.555884     0.300111
 0.899240    0.863046   -50.282030
1.00000    0.561054   -1.555884     0.300111
 0.899240    0.488801   -48.341814

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.475461    5.086288     0.067524
-0.351200   1.315683   186.906168
0.25000   -0.475461    5.086288     0.067524
-0.351200   1.231479   180.563478
0.50000   -0.475461    5.086288     0.067524
-0.351200   1.147275   174.220787
0.75000   -0.475461    5.086288     0.067524
-0.351200   1.063070   167.878096
1.00000   -0.475461    5.086288     0.067524
-0.351200   0.978866   161.535405

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.493218   -16.209100    -0.410478
-0.004362   -5.363195   -604.994489
0.25000    1.493218   -16.209100    -0.410478
-0.004362   -4.851322   -584.781454
0.50000    1.493218   -16.209100    -0.410478
-0.004362   -4.339448   -564.568418
0.75000    1.493218   -16.209100    -0.410478
-0.004362   -3.827574   -544.355382
1.00000    1.493218   -16.209100    -0.410478
-0.004362   -3.315701   -524.142347

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.901004   21.860531    -0.445423
-6.659609    0.876077   818.418678
0.25000   -5.901004   21.860531    -0.445423
-6.659609    1.431528   791.158207
0.50000   -5.901004   21.860531    -0.445423
-6.659609    1.986979   763.897736
0.75000   -5.901004   21.860531    -0.445423
-6.659609    2.542429   736.637265
1.00000   -5.901004   21.860531    -0.445423
-6.659609    3.097880   709.376794

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    4.444839   -9.515682     0.552456
 6.309193    1.595036   -356.263840
0.25000    4.444839   -9.515682     0.552456
 6.309193    0.906114   -344.397615
0.50000    4.444839   -9.515682     0.552456
 6.309193    0.217192   -332.531390
0.75000    4.444839   -9.515682     0.552456
 6.309193   -0.471730   -320.665165
1.00000    4.444839   -9.515682     0.552456
 6.309193   -1.160652   -308.798940

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.499110   27.280667    -0.442089
-7.204072    1.782381    1017.361
0.25000   -6.499110   27.280667    -0.442089
-7.204072    2.333674   983.341529
0.50000   -6.499110   27.280667    -0.442089
-7.204072    2.884966   949.322053
0.75000   -6.499110   27.280667    -0.442089
-7.204072    3.436259   915.302577
1.00000   -6.499110   27.280667    -0.442089
-7.204072    3.987551   881.283101
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    149

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.499110   -27.280667     0.442089
 7.204072   -1.782381    -1017.361
0.25000    6.499110   -27.280667     0.442089
 7.204072   -2.333674   -983.341529
0.50000    6.499110   -27.280667     0.442089
 7.204072   -2.884966   -949.322053
0.75000    6.499110   -27.280667     0.442089
 7.204072   -3.436259   -915.302577
1.00000    6.499110   -27.280667     0.442089
 7.204072   -3.987551   -881.283101

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.499110   27.280667     0.552456
 7.204072    1.985778    1017.361
0.25000    6.499110   27.280667     0.552456
 7.204072    2.333674    983.341529
0.50000    6.499110   27.280667     0.552456
 7.204072    2.884966    949.322053
0.75000    6.499110   27.280667     0.552456
 7.204072    3.436259    915.302577
1.00000    6.499110   27.280667     0.552456
 7.204072    3.987551    881.283101

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.499110   -27.280667    -0.445423
-7.204072   -5.363195   -1017.361
0.25000   -6.499110   -27.280667    -0.445423
-7.204072   -4.851322   -983.341529
0.50000   -6.499110   -27.280667    -0.445423
-7.204072   -4.339448   -949.322053
0.75000   -6.499110   -27.280667    -0.445423
-7.204072   -3.827574   -915.302577
1.00000   -6.499110   -27.280667    -0.445423
-7.204072   -3.987551   -881.283101

ELEM       47 ================== LENGTH
=     4.987346

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.128805    0.332786    -0.035208
-0.065872   -0.075009   10.370681
0.25000   -0.128805    0.332786    -0.035208
-0.065872   -0.031111    9.955751
0.50000   -0.128805    0.332786    -0.035208
-0.065872    0.012787    9.540821
0.75000   -0.128805    0.332786    -0.035208
-0.065872    0.056685    9.125891
1.00000   -0.128805    0.332786    -0.035208
-0.065872    0.100584    8.710961

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.591065   -1.551046     0.165225
 0.306833    0.419557   -48.340592
0.25000    0.591065   -1.551046     0.165225
 0.306833    0.213549   -46.406691
0.50000    0.591065   -1.551046     0.165225
 0.306833    0.007541   -44.472790
0.75000    0.591065   -1.551046     0.165225
 0.306833   -0.198467   -42.538889
1.00000    0.591065   -1.551046     0.165225
 0.306833   -0.404475   -40.604987

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.485426    5.111873     0.036590
 0.213042    1.003304   161.534275
0.25000   -0.485426    5.111873     0.036590
 0.213042    0.957682   155.160605
0.50000   -0.485426    5.111873     0.036590
 0.213042    0.912060   148.786935
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    150

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.75000   -0.485426    5.111873     0.036590
 0.213042    0.866438   142.412265
1.00000   -0.485426    5.111873     0.036590
 0.213042    0.820816   136.039596

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.457872   -16.462404    -0.204359
-0.763490   -3.233719   -524.145383
0.25000    1.457872   -16.462404    -0.204359
-0.763490   -2.976916   -503.619457
0.50000    1.457872   -16.462404    -0.204359
-0.763490   -2.724113   -483.093531
0.75000    1.457872   -16.462404    -0.204359
-0.763490   -2.469310   -462.567604
1.00000    1.457872   -16.462404    -0.204359
-0.763490   -2.214507   -442.041678

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.532309   22.293782    -0.383902
-5.170870    2.202334   709.459061
0.25000   -5.532309   22.293782    -0.383902
-5.170870    2.680997   681.662360
0.50000   -5.532309   22.293782    -0.383902
-5.170870    3.159660   653.865659
0.75000   -5.532309   22.293782    -0.383902
-5.170870    3.638323   626.068958
1.00000   -5.532309   22.293782    -0.383902
-5.170870    4.116986   598.272258

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    4.097603   -9.724990     0.421654
 5.480358   -0.316468   -308.878041
0.25000    4.097603   -9.724990     0.421654
 5.480358   -0.842201   -296.752568
0.50000    4.097603   -9.724990     0.421654
 5.480358   -1.367935   -284.627095
0.75000    4.097603   -9.724990     0.421654
 5.480358   -1.893669   -272.501622
1.00000    4.097603   -9.724990     0.421654
 5.480358   -2.419403   -260.376149

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.146539   27.738441    -0.382519
-5.023701    3.130629   881.364016
0.25000   -6.146539   27.738441    -0.382519
-5.023701    3.607568   846.778716
0.50000   -6.146539   27.738441    -0.382519
-5.023701    4.084508   812.193415
0.75000   -6.146539   27.738441    -0.382519
-5.023701    4.561447   777.608115
1.00000   -6.146539   27.738441    -0.382519
-5.023701    5.038386   743.022815

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.146539   -27.738441     0.382519
 5.023701   -3.130629   -881.364016
0.25000    6.146539   -27.738441     0.382519
 5.023701   -3.607568   -846.778716
0.50000    6.146539   -27.738441     0.382519
 5.023701   -4.084508   -812.193415
0.75000    6.146539   -27.738441     0.382519
 5.023701   -4.561447   -777.608115
1.00000    6.146539   -27.738441     0.382519
 5.023701   -5.038386   -743.022815

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    6.146539   27.738441     0.421654
 5.480358    3.130629   881.364016
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    151

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
0.25000    6.146539   27.738441     0.421654
 5.480358    3.607568   846.778716
0.50000    6.146539   27.738441     0.421654
 5.480358    4.084508   812.193415
0.75000    6.146539   27.738441     0.421654
 5.480358    4.561447   777.608115
1.00000    6.146539   27.738441     0.421654
 5.480358    5.038386   743.022815

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -6.146539   -27.738441    -0.382902
-5.170870   -3.233719   -881.364016
0.25000   -6.146539   -27.738441    -0.382902
-5.170870   -3.607568   -846.778716
0.50000   -6.146539   -27.738441    -0.382902
-5.170870   -4.084508   -812.193415
0.75000   -6.146539   -27.738441    -0.382902
-5.170870   -4.561447   -777.608115
1.00000   -6.146539   -27.738441    -0.382902
-5.170870   -5.038386   -743.022815

ELEM       48 ================== LENGTH
=     4.987936

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.133639    0.332585     3.21E-06
 0.040430    0.111912    8.710949
0.25000   -0.133639    0.332585     3.21E-06
 0.040430    0.111908    8.295621
0.50000   -0.133639    0.332585     3.21E-06
 0.040430    0.111904    7.880894
0.75000   -0.133639    0.332585     3.21E-06
 0.040430    0.111900    7.466166
1.00000   -0.133639    0.332585     3.21E-06
 0.040430    0.111896    7.051438

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    0.614788   -1.550166     0.001509
-0.187623   -0.460130   -40.601966
0.25000    0.614788   -1.550166     0.001509
-0.187623   -0.462012   -38.668934
0.50000    0.614788   -1.550166     0.001509
-0.187623   -0.463894   -36.735902
0.75000    0.614788   -1.550166     0.001509
-0.187623   -0.465775   -34.802870
1.00000    0.614788   -1.550166     0.001509
-0.187623   -0.467657   -32.869838

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.475688    5.125026     0.015205
 0.797364    0.797310   136.038364
0.25000   -0.475688    5.125026     0.015205
 0.797364    0.778350   129.647538
0.50000   -0.475688    5.125026     0.015205
 0.797364    0.759389   123.256712
0.75000   -0.475688    5.125026     0.015205
 0.797364    0.740428   116.865886
1.00000   -0.475688    5.125026     0.015205
 0.797364    0.721467   110.475059

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    1.358326   -16.595230     0.002835
-1.966388   -1.974902   -442.048894
0.25000    1.358326   -16.595230     0.002835
-1.966388   -1.978437   -421.354908
0.50000    1.358326   -16.595230     0.002835
-1.966388   -1.981972   -400.660921
0.75000    1.358326   -16.595230     0.002835
-1.966388   -1.985507   -379.966934
1.00000    1.358326   -16.595230     0.002835
-1.966388   -1.989042   -359.272947
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    152

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.078062   22.539388    -0.283821
-3.149648    3.014603    598.359975
0.25000   -5.078062   22.539388    -0.283821
-3.149648    3.368523    570.253718
0.50000   -5.078062   22.539388    -0.283821
-3.149648    3.722444    542.147460
0.75000   -5.078062   22.539388    -0.283821
-3.149648    4.076364    514.041203
1.00000   -5.078062   22.539388    -0.283821
-3.149648    4.430285    485.934945

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    3.714276   -9.851604     0.264269
 4.465866   -1.488793   -260.457828
0.25000    3.714276   -9.851604     0.264269
 4.465866   -1.818332   -248.173036
0.50000    3.714276   -9.851604     0.264269
 4.465866   -2.147871   -235.888243
0.75000    3.714276   -9.851604     0.264269
 4.465866   -2.477410   -223.603450
1.00000    3.714276   -9.851604     0.264269
 4.465866   -2.806949   -211.318657

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.687389   27.996999    -0.268613
-2.311855   3.923825   743.108689
0.25000   -5.687389   27.996999    -0.268613
-2.311855   4.258781   708.196877
0.50000   -5.687389   27.996999    -0.268613
-2.311855   4.593737   673.285065
0.75000   -5.687389   27.996999    -0.268613
-2.311855   4.928692   638.373254
1.00000   -5.687389   27.996999    -0.268613
-2.311855   5.263648   603.461442

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.687389   -27.996999     0.268613
 2.311855   -3.923825   -743.108689
0.25000    5.687389   -27.996999     0.268613
 2.311855   -4.258781   -708.196877
0.50000    5.687389   -27.996999     0.268613
 2.311855   -4.593737   -673.285065
0.75000    5.687389   -27.996999     0.268613
 2.311855   -4.928692   -638.373254
1.00000    5.687389   -27.996999     0.268613
 2.311855   -5.263648   -603.461442

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
0.00000    5.687389   27.996999     0.268613
 4.465866    3.923825    743.108689
0.25000    5.687389   27.996999     0.268613
 4.465866    4.258781    708.196877
0.50000    5.687389   27.996999     0.268613
 4.465866    4.593737    673.285065
0.75000    5.687389   27.996999     0.268613
 4.465866    4.928692    638.373254
1.00000    5.687389   27.996999     0.268613
 4.465866    5.263648    603.461442

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -5.687389   -27.996999    -0.283821
-3.149648   -3.923825   -743.108689
0.25000   -5.687389   -27.996999    -0.283821
-3.149648   -4.258781   -708.196877
0.50000   -5.687389   -27.996999    -0.283821
-3.149648   -4.593737   -673.285065
0.75000   -5.687389   -27.996999    -0.283821
-3.149648   -4.928692   -638.373254
1.00000   -5.687389   -27.996999    -0.283821
-3.149648   -5.263648   -603.461442
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    153

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       49 ================== LENGTH
=     4.987455

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
0.00000   -0.137604    0.332725     0.038984
 0.131721    0.121507    7.050448
0.25000   -0.137604    0.332725     0.038984
 0.131721    0.072899    6.635585
0.50000   -0.137604    0.332725     0.038984
 0.131721    0.024292    6.220722
```

```
 0.75000    -0.137604     0.332725     0.038984
 0.131721   -0.024316     5.805860
 1.00000    -0.137604     0.332725     0.038984
 0.131721   -0.072923     5.390997

LOAD      -P1 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     0.634363    -1.550850    -0.179662
-0.612238    -0.515082    -32.865073
 0.25000     0.634363    -1.550850    -0.179662
-0.612238    -0.291067    -30.931374
 0.50000     0.634363    -1.550850    -0.179662
-0.612238    -0.067053    -28.997676
 0.75000     0.634363    -1.550850    -0.179662
-0.612238     0.156962    -27.063977
 1.00000     0.634363    -1.550850    -0.179662
-0.612238     0.380976    -25.130279

LOAD      -P2 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -0.449574     5.126833     0.028869
 1.274724    0.655416    110.473817
 0.25000    -0.449574     5.126833     0.028869
 1.274724    0.622321    104.081355
 0.50000    -0.449574     5.126833     0.028869
 1.274724    0.586326     97.688893
 0.75000    -0.449574     5.126833     0.028869
 1.274724    0.550330     91.296431
 1.00000    -0.449574     5.126833     0.028869
 1.274724    0.514335     84.903970

LOAD      -P3 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     1.204449   -16.647200     0.117286
-3.024110    -1.616447   -359.283128
 0.25000     1.204449   -16.647200     0.117286
-3.024110    -1.762687   -338.526340
 0.50000     1.204449   -16.647200     0.117286
-3.024110    -1.908927   -317.769551
 0.75000     1.204449   -16.647200     0.117286
-3.024110    -2.055167   -297.012762
 1.00000     1.204449   -16.647200     0.117286
-3.024110    -2.201407   -276.255973

LOAD      -P4 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -4.553120    22.665153    -0.080166
-1.309528     3.158984    486.021823
 0.25000    -4.553120    22.665153    -0.080166
-1.309528     3.258941    457.761466
 0.50000    -4.553120    22.665153    -0.080166
-1.309528     3.358898    429.501110
 0.75000    -4.553120    22.665153    -0.080166
-1.309528     3.458854    401.240753
 1.00000    -4.553120    22.665153    -0.080166
-1.309528     3.558811    372.980396

LOAD      -P5 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     3.301487    -9.926662     0.074690
 3.539431   -1.807279    -211.397886
 0.25000     3.301487    -9.926662     0.074690
 3.539431   -1.900407    -199.020692
 0.50000     3.301487    -9.926662     0.074690
 3.539431   -1.993535    -186.643499
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  154

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.75000     3.301487    -9.926662     0.074690
 3.539431   -2.086664    -174.266305
 1.00000     3.301487    -9.926662     0.074690
 3.539431   -2.179792    -161.889111

LOAD   -2N+1- ----------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -5.140298    28.124711    -0.012314
 0.096917    3.938808    603.546087
 0.25000    -5.140298    28.124711    -0.012314
-0.096917    -3.954161    -568.478406
 0.50000    -5.140298    28.124711    -0.012314
-0.096917    -3.969515    -533.410725
 0.75000    -5.140298    28.124711    -0.012314
-0.096917    -3.984869    -498.343044
 1.00000    -5.140298    28.124711    -0.012314
-0.096917    -4.000223    -463.275363

LOAD   -2N+2- ----------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     5.140298   -28.124711     0.012314
-0.096917    -3.938808    603.546087
 0.25000     5.140298   -28.124711     0.012314
-0.096917    -3.954161    568.478406
 0.50000     5.140298   -28.124711     0.012314
-0.096917    -3.969515    533.410725
 0.75000     5.140298   -28.124711     0.012314
-0.096917    -3.984869    498.343044
 1.00000     5.140298   -28.124711     0.012314
-0.096917    -4.000223    463.275363

COMB  SETTLE ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     5.140298    28.124711     0.117286
 3.539431    3.938808    603.546087
 0.25000     5.140298    28.124711     0.117286
 3.539431    3.954161    568.478406
 0.50000     5.140298    28.124711     0.117286
 3.539431    3.969515    533.410725
 0.75000     5.140298    28.124711     0.117286
 3.539431    3.984869    498.343044
 1.00000     5.140298    28.124711     0.117286
 3.539431    4.000223    463.275363

COMB  SETTLE ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -5.140298   -28.124711    -0.179662
-3.024110    -3.938808   -603.546087
 0.25000    -5.140298   -28.124711    -0.179662
-3.024110    -3.954161   -568.478406
 0.50000    -5.140298   -28.124711    -0.179662
-3.024110    -3.969515   -533.410725
 0.75000    -5.140298   -28.124711    -0.179662
-3.024110    -3.984869   -498.343044
 1.00000    -5.140298   -28.124711    -0.179662
-3.024110    -4.000223   -463.275363

ELEM       50 ================== LENGTH
=     4.988196

LOAD      -A1 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -0.140793     0.334531     0.085232
 0.218197   -0.064700     5.389618
 0.25000    -0.140793     0.334531     0.085232
 0.218197   -0.170989     4.972442
 0.50000    -0.140793     0.334531     0.085232
 0.218197   -0.277278     4.555266
 0.75000    -0.140793     0.334531     0.085232
 0.218197   -0.383566     4.138090
 1.00000    -0.140793     0.334531     0.085232

 0.218197   -0.489855     3.720914
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  155

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     0.650251    -1.559268    -0.394533
-1.014405    0.340203    -25.123713
 0.25000     0.650251    -1.559268    -0.394533
-1.014405    0.832204    -23.179231
 0.50000     0.650251    -1.559268    -0.394533
-1.014405    1.324206    -21.234748
 0.75000     0.650251    -1.559268    -0.394533
-1.014405    1.816208    -19.290265
 1.00000     0.650251    -1.559268    -0.394533
-1.014405    2.308209    -17.345782

LOAD      -P2 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -0.410344     5.126990     0.073016
 1.673722    0.419876    64.902223
 0.25000    -0.410344     5.126990     0.073016
 1.673722    0.328822    78.508615
 0.50000    -0.410344     5.126990     0.073016
 1.673722    0.237768    72.115008
 0.75000    -0.410344     5.126990     0.073016
 1.673722    0.146713    65.721400
 1.00000    -0.410344     5.126990     0.073016
 1.673722    0.055659    59.327792

LOAD      -P3 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     1.007593   -16.663914     0.165637
-3.929179    -1.724225   -276.267144
 0.25000     1.007593   -16.663914     0.165637
-3.929179    -1.930781   -255.486427
 0.50000     1.007593   -16.663914     0.165637
-3.929179    -2.137338   -234.705709
 0.75000     1.007593   -16.663914     0.165637
-3.929179    -2.343895   -213.924992
 1.00000     1.007593   -16.663914     0.165637
-3.929179    -2.550452   -193.144275

LOAD      -P4 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -3.972418    22.739750     0.243603
 0.422355    2.156046    373.066624
 0.25000    -3.972418    22.739750     0.243603
 0.422355    1.852260    344.709043
 0.50000    -3.972418    22.739750     0.243603
 0.422355    1.548475    316.351462
 0.75000    -3.972418    22.739750     0.243603
 0.422355    1.244690    287.993880
 1.00000    -3.972418    22.739750     0.243603
 0.422355    0.940904    259.636299

LOAD      -P5 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     2.865712    -9.978088    -0.172955
 2.629309   -1.127200    -161.967608
 0.25000     2.865712    -9.978088    -0.172955
 2.629309   -0.911516    -149.524443
 0.50000     2.865712    -9.978088    -0.172955
 2.629309   -0.695833    -137.081278
 0.75000     2.865712    -9.978088    -0.172955
 2.629309   -0.480149    -124.638113
 1.00000     2.865712    -9.978088    -0.172955
 2.629309   -0.264466    -112.194948

LOAD   -2N+1- ----------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -4.523555    28.201270     0.401851
 2.314274    2.511222    463.358465
 0.25000    -4.523555    28.201270     0.401851
 2.314274    2.010093    428.190100
 0.50000    -4.523555    28.201270     0.401851
 2.314274    1.508965    393.021735
 0.75000    -4.523555    28.201270     0.401851
 2.314274    1.007837    357.853370
 1.00000    -4.523555    28.201270     0.401851
 2.314274    0.506709    322.685005
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  156

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ----------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     4.523555   -28.201270    -0.401851
-2.314274   -2.511222    463.358465
 0.25000     4.523555   -28.201270    -0.401851
-2.314274   -2.010093    428.190100
 0.50000     4.523555   -28.201270    -0.401851
-2.314274   -1.508965    393.021735
 0.75000     4.523555   -28.201270    -0.401851
-2.314274   -1.007837    357.853370
 1.00000     4.523555   -28.201270    -0.401851
-2.314274   -0.506709    322.685005

COMB  SETTLE ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     4.523555    28.201270     0.401851
 2.629309    2.511222    463.358465
 0.25000     4.523555    28.201270     0.401851
 2.629309    2.010093    428.190100
 0.50000     4.523555    28.201270     0.401851
 2.629309    1.548475    393.021735
 0.75000     4.523555    28.201270     0.401851
 2.629309    1.816208    357.853370
 1.00000     4.523555    28.201270     0.401851
 2.629309    2.308209    322.685005

COMB  SETTLE ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -4.523555   -28.201270    -0.401851
-3.929179    -2.511222   -463.358465
 0.25000    -4.523555   -28.201270    -0.401851
-3.929179    -2.010093   -428.190100
 0.50000    -4.523555   -28.201270    -0.401851
-3.929179    -2.137338   -393.021735
 0.75000    -4.523555   -28.201270    -0.401851
-3.929179    -2.343895   -357.853370
 1.00000    -4.523555   -28.201270    -0.401851
-3.929179    -2.550452   -322.685005

ELEM       51 ================== LENGTH
=     4.987077

LOAD      -A1 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -0.142992     0.339811     0.103653
 0.311421   -0.483639     3.719214
 0.25000    -0.142992     0.339811     0.103653
 0.311421   -0.612870     3.295549
 0.50000    -0.142992     0.339811     0.103653
 0.311421   -0.742102     2.871883
 0.75000    -0.142992     0.339811     0.103653
 0.311421   -0.871334     2.448218
 1.00000    -0.142992     0.339811     0.103653
 0.311421   -1.000566     2.024552

LOAD      -P1 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     0.661476    -1.583838    -0.480002
-1.447822    2.276919    -17.337737
 0.25000     0.661476    -1.583838    -0.480002
-1.447822    2.875371    -15.363057
 0.50000     0.661476    -1.583838    -0.480002
-1.447822    3.473823    -13.388378
 0.75000     0.661476    -1.583838    -0.480002
-1.447822    4.072275    -11.413698
 1.00000     0.661476    -1.583838    -0.480002
-1.447822    4.670727    -9.439018

LOAD      -P2 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -0.361120     5.147547     0.097750
 1.916897   -0.062472    59.325752
 0.25000    -0.361120     5.147547     0.097750
 1.916897   -0.184343    52.907949
 0.50000    -0.361120     5.147547     0.097750
 1.916897   -0.306214    46.490146
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  157

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.75000    -0.361120     5.147547     0.097750
 1.916897   -0.428085    40.072344
 1.00000    -0.361120     5.147547     0.097750
 1.916897   -0.549957    33.654541

LOAD      -P3 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     0.780006   -16.714515     0.160202
-4.350018    -1.998982   -193.156189
 0.25000     0.780006   -16.714515     0.160202
-4.350018    -2.198717   -172.317047
 0.50000     0.780006   -16.714515     0.160202
-4.350018    -2.398452   -151.477906
 0.75000     0.780006   -16.714515     0.160202
-4.350018    -2.598188   -130.638764
 1.00000     0.780006   -16.714515     0.160202
-4.350018    -2.797923   -109.799622

LOAD      -P4 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -3.349935    22.809347     0.404060
 1.911754   -0.559776    259.720236
 0.25000    -3.349935    22.809347     0.404060
 1.911754   -1.063545    231.282246
 0.50000    -3.349935    22.809347     0.404060
 1.911754   -1.567315    202.844256
 0.75000    -3.349935    22.809347     0.404060
 1.911754   -2.071084    174.406266
 1.00000    -3.349935    22.809347     0.404060
 1.911754   -2.574853    145.968275

LOAD      -P5 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     2.412566    -9.998352    -0.285663
 1.657767    0.827949    -112.271275
 0.25000     2.412566    -9.998352    -0.285663
 1.657767    1.184104    -99.805639
 0.50000     2.412566    -9.998352    -0.285663
 1.657767    1.540260    -87.340002
 0.75000     2.412566    -9.998352    -0.285663
 1.657767    1.896416    -74.874366
 1.00000     2.412566    -9.998352    -0.285663
 1.657767    2.252572    -62.408729

LOAD   -2N+1- ----------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -3.854047    28.296704     0.605463
 4.140073   -1.105886    322.765202
 0.25000    -3.854047    28.296704     0.605463
 4.140073   -1.860758    287.485744
 0.50000    -3.854047    28.296704     0.605463
 4.140073   -2.615631    252.206285
 0.75000    -3.854047    28.296704     0.605463
 4.140073   -3.370503    216.926827
 1.00000    -3.854047    28.296704     0.605463
 4.140073   -4.125376    181.647369

LOAD   -2N+2- ----------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     3.854047   -28.296704    -0.605463
-4.140073    1.105886    -322.765202
 0.25000     3.854047   -28.296704    -0.605463
-4.140073    1.860758    -287.485744
 0.50000     3.854047   -28.296704    -0.605463
-4.140073    2.615631    -252.206285
 0.75000     3.854047   -28.296704    -0.605463
-4.140073    3.370503    -216.926827
 1.00000     3.854047   -28.296704    -0.605463
-4.140073    4.125376    -181.647369

COMB  SETTLE ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     3.854047    28.296704     0.605463
 4.140073    2.276919    322.765202
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  158

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.25000     3.854047    28.296704     0.605463
 4.140073    2.875371    287.485744
 0.50000     3.854047    28.296704     0.605463
 4.140073    3.473823    252.206285
 0.75000     3.854047    28.296704     0.605463
 4.140073    4.072275    216.926827
 1.00000     3.854047    28.296704     0.605463
 4.140073    4.670727    181.647369

COMB  SETTLE ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -3.854047   -28.296704    -0.605463
-4.350018    -1.998982   -322.765202
 0.25000    -3.854047   -28.296704    -0.605463
-4.350018    -2.198717   -287.485744
 0.50000    -3.854047   -28.296704    -0.605463
-4.350018    -2.616631   -252.206285
 0.75000    -3.854047   -28.296704    -0.605463
-4.350018    -3.370503   -216.926827
 1.00000    -3.854047   -28.296704    -0.605463
-4.350018    -4.125376   -181.647369

ELEM       52 ================== LENGTH
=     4.988071

LOAD      -A1 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -0.140992     0.339811     0.103653
 0.311421   -0.871334     2.448218
 1.00000    -0.140992     0.339811     0.103653
 0.311421   -1.000566     2.024552

LOAD      -P1 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     0.667036    -1.594817     0.156714
-2.176580    4.655998    -9.428971
 0.25000     0.667036    -1.594817     0.156714
-2.176580    4.460573    -7.440206
 0.50000     0.667036    -1.594817     0.156714
-2.176580    4.265147    -5.451441
 0.75000     0.667036    -1.594817     0.156714
-2.176580    4.069722    -3.462675
 1.00000     0.667036    -1.594817     0.156714
-2.176580    3.874297    -1.473910

LOAD      -P2 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -0.305710     5.194368    -0.041731
 1.997998   -0.684288    33.652761
 0.25000    -0.305710     5.194368    -0.041731
 1.997998   -0.632249    27.175292
 0.50000    -0.305710     5.194368    -0.041731
 1.997998   -0.580210    20.697824
 0.75000    -0.305710     5.194368    -0.041731
 1.997998   -0.528171    14.220355
 1.00000    -0.305710     5.194368    -0.041731
 1.997998   -0.476132     7.742887

LOAD      -P3 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     0.537094   -16.840432     0.028719
-4.029005    -2.207346   -109.814017
 0.25000     0.537094   -16.840432     0.028719
-4.029005    -2.243160   -88.813700
 0.50000     0.537094   -16.840432     0.028719
-4.029005    -2.278973   -67.813383
 0.75000     0.537094   -16.840432     0.028719
-4.029005    -2.314787   -46.813066
 1.00000     0.537094   -16.840432     0.028719
-4.029005    -2.350601   -25.812748
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  159

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -2.709687    22.804453    -0.510377
 3.530365   -4.129790    146.047602
 0.25000    -2.709687    22.804453    -0.510377
 3.530365   -3.493341    117.610046
 0.50000    -2.709687    22.804453    -0.510377
 3.530365   -2.856892    89.172490
 0.75000    -2.709687    22.804453    -0.510377
 3.530365   -2.220444    60.734933
 1.00000    -2.709687    22.804453    -0.510377
 3.530365   -1.583995    32.297377

LOAD      -P5 --------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     1.955253    -9.905741     0.399989
 0.209010    3.363308    -62.479795
 0.25000     1.955253    -9.905741     0.399989
 0.209010    2.864515    -50.127161
 0.50000     1.955253    -9.905741     0.399989
 0.209010    2.365722    -37.774526
 0.75000     1.955253    -9.905741     0.399989
 0.209010    1.866929    -25.421892
 1.00000     1.955253    -9.905741     0.399989
 0.209010    1.368136    -13.069257

LOAD   -2N+1- ----------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -3.159383    28.340991    -0.585422
 5.996575   -5.811960    181.722783
 0.25000    -3.159383    28.340991    -0.585422
 5.996575   -5.081928    146.381066
 0.50000    -3.159383    28.340991    -0.585422
 5.996575   -4.351896    111.039350
 0.75000    -3.159383    28.340991    -0.585422
 5.996575   -3.621864    75.697633
 1.00000    -3.159383    28.340991    -0.585422
 5.996575   -2.891832    40.355916

LOAD   -2N+2- ----------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     3.159383   -28.340991     0.585422
-5.996575    5.811960    -181.722783
 0.25000     3.159383   -28.340991     0.585422
-5.996575    5.081928    -146.381066
 0.50000     3.159383   -28.340991     0.585422
-5.996575    4.351896    -111.039350
 0.75000     3.159383   -28.340991     0.585422
-5.996575    3.621864    -75.697633
 1.00000     3.159383   -28.340991     0.585422
-5.996575    2.891832    -40.355916

COMB  SETTLE ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     3.159383    28.340991     0.585422
 5.996575    5.811960    181.722783
 0.25000     3.159383    28.340991     0.585422
 5.996575    5.081928    146.381066
 0.50000     3.159383    28.340991     0.585422
 5.996575    4.351896    111.039350
 0.75000     3.159383    28.340991     0.585422
 5.996575    4.069722    75.697633
 1.00000     3.159383    28.340991     0.585422
 5.996575    3.874297    40.355916

COMB  SETTLE ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -3.159383   -28.340991    -0.585422
-5.996575   -5.811960   -181.722783
 0.25000    -3.159383   -28.340991    -0.585422
-5.996575   -5.081928   -146.381066
 0.50000    -3.159383   -28.340991    -0.585422
-5.996575   -4.351896   -111.039350
 0.75000    -3.159383   -28.340991    -0.585422
-5.996575   -3.621864   -75.697633
 1.00000    -3.159383   -28.340991    -0.585422
-5.996575   -2.891832   -40.355916
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  160

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       53 ================== LENGTH
```

= 1.495611

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.144047	0.315626	-0.557217
0.844059		-0.832167	0.314341	
0.25000		-0.144047	0.315626	-0.557217
0.844059		-0.623822	0.196328	
0.50000		-0.144047	0.315626	-0.557217
0.844059		-0.415477	0.078315	
0.75000		-0.144047	0.315626	-0.557217
0.844059		-0.207132	-0.039698	
1.00000		-0.144047	0.315626	-0.557217
0.844059		0.001212	-0.157712	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.668534	-1.471383	2.592141
-3.923569		3.873680	-1.467650	
0.25000		0.668534	-1.471383	2.592141
-3.923569		2.904472	-0.917496	
0.50000		0.668534	-1.471383	2.592141
-3.923569		1.935263	-0.367342	
0.75000		0.668534	-1.471383	2.592141
-3.923569		0.966054	0.182812	
1.00000		0.668534	-1.471383	2.592141
-3.923569		-0.003154	0.732966	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.226089	5.300699	-0.551080
1.870913		-0.658510	7.748434	
0.25000		-0.226089	5.300699	-0.551080
1.870913		-0.452459	5.766488	
0.50000		-0.226089	5.300699	-0.551080
1.870913		-0.246409	3.784542	
0.75000		-0.226089	5.300699	-0.551080
1.870913		-0.040359	1.802596	
1.00000		-0.226089	5.300699	-0.551080
1.870913		0.165692	-0.179349	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.198804	-17.235969	-0.589979
-2.214515		-1.578775	-25.848420	
0.25000		0.198804	-17.235969	-0.589979
-2.214515		-1.358180	-19.403844	
0.50000		0.198804	-17.235969	-0.589979
-2.214515		-1.137585	-12.959269	
0.75000		0.198804	-17.235969	-0.589979
-2.214515		-0.916990	-6.514693	
1.00000		0.198804	-17.235969	-0.589979
-2.214515		-0.696396	-0.070117	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-1.830832	22.515068	-3.618933
6.299390		-3.595097	32.407623	
0.25000		-1.830832	22.515068	-3.618933
6.299390		-2.241968	23.989178	
0.50000		-1.830832	22.515068	-3.618933
6.299390		-0.888839	15.570732	
0.75000		-1.830832	22.515068	-3.618933
6.299390		0.464289	7.152287	
1.00000		-1.830832	22.515068	-3.618933
6.299390		1.817418	-1.266158	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		1.333630	-9.424041	2.725067
-2.876278		2.790868	-13.154328	
0.25000		1.333630	-9.424041	2.725067
-2.876278		1.771958	-9.630653	
0.50000		1.333630	-9.424041	2.725067
-2.876278		0.753048	-6.106979	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 161
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000		1.333630	-9.424041	2.725067
-2.876278		-0.265862	-2.583304	
1.00000		1.333630	-9.424041	2.725067
-2.876278		-1.284772	0.940370	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-2.200968	28.131392	-4.727229
9.014362		-5.085774	40.470398	
0.25000		-2.200968	28.131392	-4.727229
9.014362		-3.318250	29.951994	
0.50000		-2.200968	28.131392	-4.727229
9.014362		-1.550726	19.433589	
0.75000		-2.200968	28.131392	-4.727229
9.014362		0.216798	8.915185	
1.00000		-2.200968	28.131392	-4.727229
9.014362		1.984322	-1.603219	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		2.200968	-28.131392	4.727229
-9.014362		5.085774	-40.470398	
0.25000		2.200968	-28.131392	4.727229
-9.014362		3.318250	-29.951994	
0.50000		2.200968	-28.131392	4.727229
-9.014362		1.550726	-19.433589	
0.75000		2.200968	-28.131392	4.727229
-9.014362		-0.216798	-8.915185	
1.00000		2.200968	-28.131392	4.727229
-9.014362		-1.984322	1.603219	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		2.200968	28.131392	4.727229
9.014362		5.085774	40.470398	
0.25000		2.200968	28.131392	4.727229
9.014362		3.318250	29.951994	
0.50000		2.200968	28.131392	4.727229
9.014362		1.935263	19.433589	
0.75000		2.200968	28.131392	4.727229
9.014362		0.966054	8.915185	
1.00000		2.200968	28.131392	4.727229
9.014362		1.984322	1.603219	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-2.200968	-28.131392	-4.727229
-9.014362		-5.085774	-40.470398	
0.25000		-2.200968	-28.131392	-4.727229
-9.014362		-3.318250	-29.951994	
0.50000		-2.200968	-28.131392	-4.727229
-9.014362		-1.550726	-19.433589	
0.75000		-2.200968	-28.131392	-4.727229
-9.014362		-0.216990	-8.915185	
1.00000		-2.200968	-28.131392	-4.727229
-9.014362		-1.984322	-1.603219	

ELEM 54 ========== LENGTH
= 4.462150

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.528528	15.095526	1.962019
-10.843846		-2.413292	-0.437750	
0.25000		-0.528528	15.095526	1.962019
-10.843846		-4.601999	-17.277376	
0.50000		-0.528528	15.095526	1.962019
-10.843846		-6.790705	-34.117003	
0.75000		-0.528528	15.095526	1.962019
-10.843846		-8.979411	-50.956629	
1.00000		-0.528528	15.095526	1.962019
-10.843846		-11.168118	-67.796256	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 162
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.938558	-31.694707	-3.743540
13.716160		3.004318	0.864930	
0.25000		0.938558	-31.694707	-3.743540
13.716160		7.180377	36.221566	
0.50000		0.938558	-31.694707	-3.743540
13.716160		11.356437	71.578202	
0.75000		0.938558	-31.694707	-3.743540
13.716160		15.532497	106.934838	
1.00000		0.938558	-31.694707	-3.743540
13.716160		19.708557	142.291474	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.201868	21.390686	0.832231
0.944870		-0.817295	-0.183945	
0.25000		-0.201868	21.390686	0.832231
0.944870		-1.745679	-24.046058	
0.50000		-0.201868	21.390686	0.832231
0.944870		-2.674064	-47.908171	
0.75000		-0.201868	21.390686	0.832231
0.944870		-3.602449	-71.770284	
1.00000		-0.201868	21.390686	0.832231
0.944870		-4.530834	-95.632398	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.270708	-6.236716	1.228304
-4.982356		0.287609	-0.315986	
0.25000		-0.270708	-6.236716	1.228304
-4.982356		-1.082410	6.641304	
0.50000		-0.270708	-6.236716	1.228304
-4.982356		-2.452630	13.598595	
0.75000		-0.270708	-6.236716	1.228304
-4.982356		-3.822849	20.555886	
1.00000		-0.270708	-6.236716	1.228304
-4.982356		-5.193068	27.513176	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.077728	1.775396	-0.342287
1.468018		-0.066068	0.089486	
0.25000		0.077728	1.775396	-0.342287
1.468018		0.315766	-1.891035	
0.50000		0.077728	1.775396	-0.342287
1.468018		0.697600	-3.871555	
0.75000		0.077728	1.775396	-0.342287
1.468018		1.079435	-5.852076	
1.00000		0.077728	1.775396	-0.342287
1.468018		1.461269	-7.832597	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.015182	-0.330185	0.063273
-0.302845		0.004528	-0.016735	
0.25000		-0.015182	-0.330185	0.063273
-0.302845		-0.066055	0.351599	
0.50000		-0.015182	-0.330185	0.063273
-0.302845		-0.136639	0.719932	
0.75000		-0.015182	-0.330185	0.063273
-0.302845		-0.207222	1.088266	
1.00000		-0.015182	-0.330185	0.063273
-0.302845		-0.277806	1.456600	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.652668	38.261607	2.451963
-8.430959		-3.296655	-0.532209	
0.25000		-0.652668	38.261607	2.451963
-8.430959		-6.031912	-43.214469	
0.50000		-0.652668	38.261607	2.451963
-8.430959		-8.767169	-85.896729	
0.75000		-0.652668	38.261607	2.451963
-8.430959		-11.502426	-128.578990	
1.00000		-0.652668	38.261607	2.451963
-8.430959		-14.237683	-171.261250	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 163
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.652668	-38.261607	-2.451963
8.430959		3.296655	0.532209	
0.25000		0.652668	-38.261607	-2.451963
8.430959		6.031912	43.214469	
0.50000		0.652668	-38.261607	-2.451963
8.430959		8.767169	85.896729	
0.75000		0.652668	-38.261607	-2.451963
8.430959		11.502426	128.578990	
1.00000		0.652668	-38.261607	-2.451963
8.430959		14.237683	171.261250	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.938558	38.261607	2.451963
13.716160		3.296655	0.864930	
0.25000		0.938558	38.261607	2.451963
13.716160		7.180377	43.214469	
0.50000		0.938558	38.261607	2.451963
13.716160		11.356437	85.896729	
0.75000		0.938558	38.261607	2.451963
13.716160		15.532497	128.578990	
1.00000		0.938558	38.261607	2.451963
13.716160		19.708557	171.261250	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.652668	-38.261607	-3.743540
-10.843846		-3.296655	-0.532209	
0.25000		-0.652668	-38.261607	-3.743540
-10.843846		-6.031912	-43.214469	
0.50000		-0.652668	-38.261607	-3.743540
-10.843846		-8.767169	-85.896729	
0.75000		-0.652668	-38.261607	-3.743540
-10.843846		-11.502426	-128.578990	
1.00000		-0.652668	-38.261607	-3.743540
-10.843846		-14.237683	-171.261250	

ELEM 55 ========== LENGTH
= 4.958110

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.515805	14.617760	-1.542698
-9.429680		-14.091140	-67.573430	
0.25000		-0.515805	14.617760	-1.542698
-9.429680		-12.178924	-85.692543	
0.50000		-0.515805	14.617760	-1.542698
-9.429680		-10.266708	-103.811656	
0.75000		-0.515805	14.617760	-1.542698
-9.429680		-8.354492	-121.930770	
1.00000		-0.515805	14.617760	-1.542698
-9.429680		-6.442276	-140.049883	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.915838	-30.884948	2.337439
10.053845		23.346692	142.018061	
0.25000		0.915838	-30.884948	2.337439
10.053845		20.449371	180.300799	
0.50000		0.915838	-30.884948	2.337439
10.053845		17.552051	218.583538	
0.75000		0.915838	-30.884948	2.337439
10.053845		14.654731	256.866277	
1.00000		0.915838	-30.884948	2.337439
10.053845		11.757411	295.149016	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.197354	21.248463	-0.468653
2.302464		-5.493554	-95.582643	
0.25000		-0.197354	21.248463	-0.468653
2.302464		-4.912646	-121.920695	
0.50000		-0.197354	21.248463	-0.468653
2.302464		-4.331738	-148.258747	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 164
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000		-0.197354	21.248463	-0.468653
2.302464		-3.750830	-174.596799	
1.00000		-0.197354	21.248463	-0.468653
2.302464		-3.169922	-200.934851	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.263506	-6.484646	-0.433375
-3.826430		-4.878811	27.514816	
0.25000		-0.263506	-6.484646	-0.433375
-3.826430		-4.341631	35.552713	
0.50000		-0.263506	-6.484646	-0.433375
-3.826430		-3.804451	43.590609	
0.75000		-0.263506	-6.484646	-0.433375
-3.826430		-3.267271	51.628506	
1.00000		-0.263506	-6.484646	-0.433375
-3.826430		-2.730091	59.666402	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.075906	1.848023	0.137961
1.145079		1.390884	-7.834458	
0.25000		0.075906	1.848023	0.137961
1.145079		1.219877	-10.125133	
0.50000		0.075906	1.848023	0.137961
1.145079		1.048870	-12.415808	
0.75000		0.075906	1.848023	0.137961
1.145079		0.877863	-14.706483	
1.00000		0.075906	1.848023	0.137961
1.145079		0.706856	-16.997158	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.015079	-0.344651	-0.030676
-0.245278		-0.274071	1.457654	
0.25000		-0.015079	-0.344651	-0.030676
-0.245278		-0.236048	1.884859	
0.50000		-0.015079	-0.344651	-0.030676
-0.245278		-0.196025	2.312064	
0.75000		-0.015079	-0.344651	-0.030676
-0.245278		-0.156001	2.739268	
1.00000		-0.015079	-0.344651	-0.030676
-0.245278		-0.121978	3.166473	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.637253	37.714246	-1.873389
-5.982137		-18.193810	-170.990531	
0.25000		-0.637253	37.714246	-1.873389
-5.982137		-15.871693	-217.738371	
0.50000		-0.637253	37.714246	-1.873389
-5.982137		-13.549576	-264.486211	
0.75000		-0.637253	37.714246	-1.873389
-5.982137		-11.227459	-311.234052	
1.00000		-0.637253	37.714246	-1.873389
-5.982137		-8.905341	-357.981892	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.637253	-37.714246	1.873389
5.982137		18.193810	170.990531	
0.25000		0.637253	-37.714246	1.873389
5.982137		15.871693	217.738371	
0.50000		0.637253	-37.714246	1.873389
5.982137		13.549576	264.486211	
0.75000		0.637253	-37.714246	1.873389
5.982137		11.227459	311.234052	
1.00000		0.637253	-37.714246	1.873389
5.982137		8.905341	357.981892	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.915838	37.714246	2.337439
10.053845		23.346692	170.990531	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 165
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000		0.915838	37.714246	2.337439
10.053845		20.449371	217.738371	
0.50000		0.915838	37.714246	2.337439
10.053845		17.552051	264.486211	
0.75000		0.915838	37.714246	2.337439
10.053845		14.654731	311.234052	
1.00000		0.915838	37.714246	2.337439
10.053845		11.757411	357.981892	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.637253	-37.714246	-1.873389
-9.429680		-18.193810	-170.990531	
0.25000		-0.637253	-37.714246	-1.873389
-9.429680		-15.871693	-217.738371	
0.50000		-0.637253	-37.714246	-1.873389
-9.429680		-13.549576	-264.486211	
0.75000		-0.637253	-37.714246	-1.873389
-9.429680		-11.227459	-311.234052	
1.00000		-0.637253	-37.714246	-1.873389
-9.429680		-8.905341	-357.981892	

ELEM 56 ========== LENGTH
= 4.958296

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.515187	14.669614	-1.615764
-8.511149		-9.273854	-139.836218	
0.25000		-0.515187	14.669614	-1.615764
-8.511149		-7.270996	-158.020291	
0.50000		-0.515187	14.669614	-1.615764
-8.511149		-5.268137	-176.204364	
0.75000		-0.515187	14.669614	-1.615764
-8.511149		-3.265279	-194.388437	
1.00000		-0.515187	14.669614	-1.615764
-8.511149		-1.262420	-212.572510	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.914022	-30.967826	2.474758
8.683303		15.244216	294.894127	
0.25000		0.914022	-30.967826	2.474758
8.683303		12.176570	333.281041	
0.50000		0.914022	-30.967826	2.474758
8.683303		9.108924	371.667954	
0.75000		0.914022	-30.967826	2.474758
8.683303		6.041277	410.054868	
1.00000		0.914022	-30.967826	2.474758
8.683303		2.973631	448.441782	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.197349	21.252710	-0.496269
1.912254		-4.021814	-200.894018	
0.25000		-0.197349	21.252710	-0.496269
1.912254		-3.406652	-227.238326	
0.50000		-0.197349	21.252710	-0.496269
1.912254		-2.791490	-253.582633	
0.75000		-0.197349	21.252710	-0.496269
1.912254		-2.176328	-279.926941	
1.00000		-0.197349	21.252710	-0.496269
1.912254		-1.561167	-306.271248	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.261899	-6.449726	-0.481054
-2.729270		-2.481656	59.667447	
0.25000		-0.261899	-6.449726	-0.481054
-2.729270		-1.885354	67.662359	
0.50000		-0.261899	-6.449726	-0.481054
-2.729270		-1.289051	75.657272	
0.75000		-0.261899	-6.449726	-0.481054
-2.729270		-0.692749	83.652184	
1.00000		-0.261899	-6.449726	-0.481054
-2.729270		-0.096446	91.647097	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 166
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.075699	1.837899	0.151619
0.829457		0.654518	-16.998823	
0.25000		0.075699	1.837899	0.151619
0.829457		0.466576	-19.277035	
0.50000		0.075699	1.837899	0.151619
0.829457		0.278633	-21.555247	
0.75000		0.075699	1.837899	0.151619
0.829457		0.090691	-23.833459	
1.00000		0.075699	1.837899	0.151619
0.829457		-0.097252	-26.111671	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.015285	-0.342671	-0.033290
-0.184594		-0.121410	3.167486	
0.25000		-0.015285	-0.342671	-0.033290
-0.184594		-0.080144	3.592252	
0.50000		-0.015285	-0.342671	-0.033290
-0.184594		-0.038878	4.017019	
0.75000		-0.015285	-0.342671	-0.033290
-0.184594		0.002388	4.441785	
1.00000		-0.015285	-0.342671	-0.033290
-0.184594		0.043654	4.866551	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.636838	37.760223	-1.960413
-5.769439		-12.641149	-357.729060	
0.25000		-0.636838	37.760223	-1.960413
-5.769439		-10.211072	-404.535652	
0.50000		-0.636838	37.760223	-1.960413
-5.769439		-7.780994	-451.342245	
0.75000		-0.636838	37.760223	-1.960413
-5.769439		-5.350916	-498.148837	
1.00000		-0.636838	37.760223	-1.960413
-5.769439		-2.920839	-544.955430	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.636838	-37.760223	1.960413
5.769439		12.641149	357.729060	
0.25000		0.636838	-37.760223	1.960413
5.769439		10.211072	404.535652	
0.50000		0.636838	-37.760223	1.960413
5.769439		7.780994	451.342245	
0.75000		0.636838	-37.760223	1.960413
5.769439		5.350916	498.148837	
1.00000		0.636838	-37.760223	1.960413
5.769439		2.920839	544.955430	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.914022	37.760223	2.474758
8.683303		15.244216	357.729060	
0.25000		0.914022	37.760223	2.474758
8.683303		12.176570	404.535652	
0.50000		0.914022	37.760223	2.474758
8.683303		9.108924	451.342245	
0.75000		0.914022	37.760223	2.474758
8.683303		6.041277	498.148837	
1.00000		0.914022	37.760223	2.474758
8.683303		2.973631	544.955430	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.636838	-37.760223	-1.960413
-8.511149		-12.641149	-357.729060	
0.25000		-0.636838	-37.760223	-1.960413
-8.511149		-10.211072	-404.535652	
0.50000		-0.636838	-37.760223	-1.960413
-8.511149		-7.780994	-451.342245	
0.75000		-0.636838	-37.760223	-1.960413
-8.511149		-5.350916	-498.148837	
1.00000		-0.636838	-37.760223	-1.960413

```
-8.511149   -2.920839 -544.955430
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    167

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       57 ================== LENGTH
=      4.957389

LOAD      -A1 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.515472   14.781279   -1.010670
-8.165873   -4.011216  -212.363731
0.25000   -0.515472   14.781279   -1.010670
-8.165873   -2.758644  -230.682869
0.50000   -0.515472   14.781279   -1.010670
-8.165873   -1.506073  -249.002006
0.75000   -0.515472   14.781279   -1.010670
-8.165873   -0.253502  -267.321144
1.00000   -0.515472   14.781279   -1.010670
-8.165873    0.999070  -285.640281

LOAD      -P1 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.913261   -31.160585    1.422130
 8.838191    6.265893   448.198197
0.25000    0.913261   -31.160585    1.422130
 8.838191    4.503380   486.816982
0.50000    0.913261   -31.160585    1.422130
 8.838191    2.740867   525.435767
0.75000    0.913261   -31.160585    1.422130
 8.838191    0.978355   564.054552
1.00000    0.913261   -31.160585    1.422130
 8.838191   -0.784158   602.673337

LOAD      -P2 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.197495   21.296655   -0.264948
 0.571033   -2.255928  -306.236083
0.25000   -0.197495   21.296655   -0.264948
 0.571033   -1.927566  -332.630033
0.50000   -0.197495   21.296655   -0.264948
 0.571033   -1.599203  -359.023983
0.75000   -0.197495   21.296655   -0.264948
 0.571033   -1.270840  -385.417933
1.00000   -0.197495   21.296655   -0.264948
 0.571033   -0.942478  -411.811884

LOAD      -P3 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.260299   -6.401217   -0.199276
-1.632122    0.093403   91.647133
0.25000   -0.260299   -6.401217   -0.199276
-1.632122   -0.340376   99.580463
0.50000   -0.260299   -6.401217   -0.199276
-1.632122    0.587348  107.513793
0.75000   -0.260299   -6.401217   -0.199276
-1.632122    0.834321  115.447123
1.00000   -0.260299   -6.401217   -0.199276
-1.632122    1.081293  123.380453

LOAD      -P4 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.075503    1.823695    0.070048
0.509962   -0.133349  -26.113016
0.25000    0.075503    1.823695    0.070048
0.509962   -0.220162  -28.373207
0.50000    0.075503    1.823695    0.070048
0.509962   -0.306976  -30.633399
0.75000    0.075503    1.823695    0.070048
0.509962   -0.393790  -32.893590
1.00000    0.075503    1.823695    0.070048
0.509962   -0.480604  -35.153781

LOAD      -P5 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.015499   -0.339827   -0.017284
-0.121191    0.041195    4.867501
0.25000   -0.015499   -0.339827   -0.017284
-0.121191    0.062616    5.288665
0.50000   -0.015499   -0.339827   -0.017284
-0.121191    0.084036    5.709828
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    168

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.75000   -0.015499   -0.339827   -0.017284
-0.121191    0.105457    6.130992
1.00000   -0.015499   -0.339827   -0.017284
-0.121191    0.126877    6.552156

LOAD     -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.637464   37.901629   -1.205570
-7.084878   -6.400492  -544.712830
0.25000   -0.637464   37.901629   -1.205570
-7.084878   -4.906372  -591.686109
0.50000   -0.637464   37.901629   -1.205570
-7.084878   -3.412252  -638.659388
0.75000   -0.637464   37.901629   -1.205570
-7.084878   -1.918132  -685.632667
1.00000   -0.637464   37.901629   -1.205570
-7.084878   -0.424012  -732.605946

LOAD     -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.637464   -37.901629    1.205570
 7.084878    6.400492   544.712830
0.25000    0.637464   -37.901629    1.205570
 7.084878    4.906372   591.686109
0.50000    0.637464   -37.901629    1.205570
 7.084878    3.412252   638.659388
0.75000    0.637464   -37.901629    1.205570
 7.084878    1.918132   685.632667
1.00000    0.637464   -37.901629    1.205570
 7.084878    0.424012   732.605946

COMB  SETTLE ------------------ MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.913261   37.901629    1.422130
 8.838191    6.400492   544.712830
0.25000    0.913261   37.901629    1.422130
 8.838191    4.906372   591.686109
0.50000    0.913261   37.901629    1.422130
 8.838191    3.412252   638.659388
0.75000    0.913261   37.901629    1.422130
 8.838191    1.918132   685.632667
1.00000    0.913261   37.901629    1.422130
 8.838191    1.081293   732.605946

COMB  SETTLE ------------------ MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.637464   -37.901629   -1.205570
-8.165873   -6.400492  -544.712830
0.25000   -0.637464   -37.901629   -1.205570
-8.165873   -4.906372  -591.686109
0.50000   -0.637464   -37.901629   -1.205570
-8.165873   -3.412252  -638.659388
0.75000   -0.637464   -37.901629   -1.205570
-8.165873   -1.918132  -685.632667
1.00000   -0.637464   -37.901629   -1.205570
-8.165873   -0.942478  -732.605946

ELEM       58 ================== LENGTH
=      4.957821

LOAD      -A1 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.511320   14.835485   -0.620229
-8.238763   -1.585374  -285.445157
0.25000   -0.511320   14.835485   -0.620229
-8.238763   -0.816628  -303.833076
0.50000   -0.511320   14.835485   -0.620229
-8.238763   -0.047881  -322.220995
0.75000   -0.511320   14.835485   -0.620229
-8.238763    0.720865  -340.608913
1.00000   -0.511320   14.835485   -0.620229
-8.238763    1.489612  -358.996832
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    169

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.905467   -31.252663    0.738778
 9.741899    2.157041   602.451513
0.25000    0.905467   -31.252663    0.738778
 9.741899    1.241359   641.187788
0.50000    0.905467   -31.252663    0.738778
 9.741899    0.325676   679.924062
0.75000    0.905467   -31.252663    0.738778
 9.741899   -0.590006   718.660336
1.00000    0.905467   -31.252663    0.738778
 9.741899   -1.505689   757.396610

LOAD      -P2 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.196047   21.313228   -0.100553
-1.030917   -1.397308  -411.783470
0.25000   -0.196047   21.313228   -0.100553
-1.030917   -1.272676  -438.200261
0.50000   -0.196047   21.313228   -0.100553
-1.030917   -1.148045  -464.617052
0.75000   -0.196047   21.313228   -0.100553
-1.030917   -1.023413  -491.033844
1.00000   -0.196047   21.313228   -0.100553
-1.030917   -0.898782  -517.450635

LOAD      -P3 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.257382   -6.373468   -0.031510
-0.624807    1.202591  123.378662
0.25000   -0.257382   -6.373468   -0.031510
-0.624807    1.241646  131.278290
0.50000   -0.257382   -6.373468   -0.031510
-0.624807    1.280702  139.177918
0.75000   -0.257382   -6.373468   -0.031510
-0.624807    1.319757  147.077546
1.00000   -0.257382   -6.373468   -0.031510
-0.624807    1.358812  154.977175

LOAD      -P4 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.074913    1.815618    0.020918
0.212551   -0.497961  -35.154497
0.25000    0.074913    1.815618    0.020918
0.212551   -0.523887  -37.404875
0.50000    0.074913    1.815618    0.020918
0.212551   -0.549813  -39.655252
0.75000    0.074913    1.815618    0.020918
0.212551   -0.575740  -41.905630
1.00000    0.074913    1.815618    0.020918
0.212551   -0.601666  -44.156008

LOAD      -P5 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.015630   -0.338201   -0.007403
-0.059964    0.121010    6.552949
0.25000   -0.015630   -0.338201   -0.007403
-0.059964    0.130186    6.972134
0.50000   -0.015630   -0.338201   -0.007403
-0.059964    0.139361    7.391319
0.75000   -0.015630   -0.338201   -0.007403
-0.059964    0.148537    7.810505
1.00000   -0.015630   -0.338201   -0.007403
-0.059964    0.157713    8.229690

LOAD     -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.632455   37.964332   -0.699865
-9.057128   -3.480642  -732.383124
0.25000   -0.632455   37.964332   -0.699865
-9.057128   -2.613191  -779.438212
0.50000   -0.632455   37.964332   -0.699865
-9.057128   -1.745739  -826.493299
0.75000   -0.632455   37.964332   -0.699865
-9.057128   -0.878288  -873.548387
1.00000   -0.632455   37.964332   -0.699865
-9.057128   -0.010836  -920.603475
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    170

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.632455   -37.964332    0.699865
 9.057128    3.480642   732.383124
0.25000    0.632455   -37.964332    0.699865
 9.057128    2.613191   779.438212
0.50000    0.632455   -37.964332    0.699865
 9.057128    1.745739   826.493299
0.75000    0.632455   -37.964332    0.699865
 9.057128    0.878288   873.548387
1.00000    0.632455   -37.964332    0.699865
 9.057128    0.010836   920.603475

COMB  SETTLE ------------------ MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.905467   37.964332    0.738778
 9.741899    3.480642   732.383124
0.25000    0.905467   37.964332    0.738778
 9.741899    2.613191   779.438212
0.50000    0.905467   37.964332    0.738778
 9.741899    1.745739   826.493299
0.75000    0.905467   37.964332    0.738778
 9.741899    1.319757   873.548387
1.00000    0.905467   37.964332    0.738778
 9.741899    1.489612   920.603475

COMB  SETTLE ------------------ MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.632455   -37.964332   -0.699865
-9.057128   -3.480642  -732.383124
0.25000   -0.632455   -37.964332   -0.699865
-9.057128   -2.613191  -779.438212
0.50000   -0.632455   -37.964332   -0.699865
-9.057128   -1.745739  -826.493299
0.75000   -0.632455   -37.964332   -0.699865
-9.057128   -1.023413  -873.548387
1.00000   -0.632455   -37.964332   -0.699865
-9.057128   -1.505689  -920.603475

ELEM       59 ================== LENGTH
=      4.958370

LOAD      -A1 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.504275   14.870753   -0.474592
-8.440440   -0.873490  -358.814238
0.25000   -0.504275   14.870753   -0.474592
-8.440440   -0.285189  -377.247914
0.50000   -0.504275   14.870753   -0.474592
-8.440440    0.303112  -395.681589
0.75000   -0.504275   14.870753   -0.474592
-8.440440    0.891413  -414.115265
1.00000   -0.504275   14.870753   -0.474592
-8.440440    1.479714  -432.548941

LOAD      -P1 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.893156   -31.321443    0.473931
10.766589    0.966481   757.198090
0.25000    0.893156   -31.321443    0.473931
10.766589    0.379000   796.023918
0.50000    0.893156   -31.321443    0.473931
10.766589   -0.208682   834.849747
0.75000    0.893156   -31.321443    0.473931
10.766589   -0.795963   873.675575
1.00000    0.893156   -31.321443    0.473931
10.766589   -1.383445   912.501404

LOAD      -P2 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.193608   21.346599   -0.009974
-2.560761   -1.039017  -517.433433
0.25000   -0.193608   21.346599   -0.009974
-2.560761   -1.026654  -543.894519
0.50000   -0.193608   21.346599   -0.009974
-2.560761   -1.014290  -570.355606
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    171

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.75000   -0.193608   21.346599   -0.009974
-2.560761   -1.001927  -596.816692
1.00000   -0.193608   21.346599   -0.009974
-2.560761   -0.989564  -623.277779

LOAD      -P3 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.253634   -6.373405    0.006410
 0.301460    1.393970  154.975873
0.25000   -0.253634   -6.373405    0.006410
 0.301460    1.386025  162.876299
0.50000   -0.253634   -6.373405    0.006410
 0.301460    1.378079  170.776724
0.75000   -0.253634   -6.373405    0.006410
 0.301460    1.370133  178.677149
1.00000   -0.253634   -6.373405    0.006410
 0.301460    1.362188  186.577574

LOAD      -P4 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.074070    1.815651    0.008715
-0.069788   -0.595519  -44.156731
0.25000    0.074070    1.815651    0.008715
-0.069788   -0.606393  -46.407399
0.50000    0.074070    1.815651    0.008715
-0.069788   -0.617126  -48.658066
0.75000    0.074070    1.815651    0.008715
-0.069788   -0.627930  -50.908734
1.00000    0.074070    1.815651    0.008715
-0.069788   -0.638733  -53.159401

LOAD      -P5 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.015708   -0.338156   -0.004491
 0.002942    0.114774    8.230439
0.25000   -0.015708   -0.338156   -0.004491
 0.002942    0.153141    8.649615
0.50000   -0.015708   -0.338156   -0.004491
 0.002942    0.158708    9.068791
0.75000   -0.015708   -0.338156   -0.004491
 0.002942    0.164274    9.487967
1.00000   -0.015708   -0.338156   -0.004491
 0.002942    0.169841    9.907143

LOAD     -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.623813   38.033004   -0.475850
-11.070990   -2.508026  -920.404402
0.25000   -0.623813   38.033004   -0.475850
-11.070990   -1.918165  -967.549832
0.50000   -0.623813   38.033004   -0.475850
-11.070990   -1.326305  -1014.695
0.75000   -0.623813   38.033004   -0.475850
-11.070990   -0.734444  -1061.841
1.00000   -0.623813   38.033004   -0.475850
-11.070990   -0.148584  -1108.986

LOAD     -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.623813   -38.033004    0.475850
11.070990    2.508026   920.404402
0.25000    0.623813   -38.033004    0.475850
11.070990    1.918165   967.549832
0.50000    0.623813   -38.033004    0.475850
11.070990    1.328305   1014.695
0.75000    0.623813   -38.033004    0.475850
11.070990    0.738444   1061.841
1.00000    0.623813   -38.033004    0.475850
11.070990    0.148584   1108.986

COMB  SETTLE ------------------ MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.893156   38.033004    0.475850
11.070990    2.508026   920.404402
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    172

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2             M3
0.25000    0.893156   38.033004    0.475850
11.070990    1.918165   967.549832
0.50000    0.893156   38.033004    0.475850
11.070990    1.378079   1014.695
0.75000    0.893156   38.033004    0.475850
11.070990    1.370133   1061.841
1.00000    0.893156   38.033004    0.475850
11.070990    1.479714   1108.986

COMB  SETTLE ------------------ MIN

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.623813   -38.033004   -0.475850
-11.070990   -2.508026  -920.404402
0.25000   -0.623813   -38.033004   -0.475850
-11.070990   -1.918165  -967.549832
0.50000   -0.623813   -38.033004   -0.475850
-11.070990   -1.326305  -1014.695
0.75000   -0.623813   -38.033004   -0.475850
-11.070990   -0.734444  -1061.841
1.00000   -0.623813   -38.033004   -0.475850
-11.070990   -0.148584  -1108.986

ELEM       60 ================== LENGTH
=      4.957854

LOAD      -A1 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.498004   14.824205   -0.474851
-8.418261   -0.618910  -432.378993
0.25000   -0.498004   14.824205   -0.474851
-8.418261   -0.030350  -450.753056
0.50000   -0.498004   14.824205   -0.474851
-8.418261    0.558210  -469.127118
0.75000   -0.498004   14.824205   -0.474851
-8.418261    1.146770  -487.501180
1.00000   -0.498004   14.824205   -0.474851
-8.418261    1.735330  -505.875242

LOAD      -P1 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.880826   -31.227655    0.464518
11.204315    0.531562   912.329346
0.25000    0.880826   -31.227655    0.464518
11.204315   -0.044192   951.034888
0.50000    0.880826   -31.227655    0.464518
11.204315   -0.619945   989.740430
0.75000    0.880826   -31.227655    0.464518
11.204315   -1.195698   1028.446
1.00000    0.880826   -31.227655    0.464518
11.204315   -1.771452   1067.152

LOAD      -P2 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.190650   21.288226    0.007567
-3.688788   -0.756589  -623.275651
0.25000   -0.190650   21.288226    0.007567
-3.688788   -0.765967  -649.661632
0.50000   -0.190650   21.288226    0.007567
-3.688788   -0.775346  -676.047614
0.75000   -0.190650   21.288226    0.007567
-3.688788   -0.784725  -702.433595
1.00000   -0.190650   21.288226    0.007567
-3.688788   -0.794104  -728.819577

LOAD      -P3 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.249527   -6.359023   -0.003574
 1.183083    1.293708  186.577792
0.25000   -0.249527   -6.359023   -0.003574
 1.183083    1.298139  194.459570
0.50000   -0.249527   -6.359023   -0.003574
 1.183083    1.302569  202.341348
0.75000   -0.249527   -6.359023   -0.003574
 1.183083    1.306999  210.223125
1.00000   -0.249527   -6.359023   -0.003574
 1.183083    1.311429  218.104903
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    173

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.073134    1.811681    0.011187
-0.356357   -0.604322  -53.160344
0.25000    0.073134    1.811681    0.011187
-0.356357   -0.618184  -55.405857
0.50000    0.073134    1.811681    0.011187
-0.356357   -0.632054  -57.651369
0.75000    0.073134    1.811681    0.011187
-0.356357   -0.645921  -59.896881
1.00000    0.073134    1.811681    0.011187
-0.356357   -0.659787  -62.142394

LOAD      -P5 ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.015778   -0.337433   -0.004848
 0.076008    0.154550    9.907850
0.25000   -0.015778   -0.337433   -0.004848
 0.076008    0.160558   10.326087
0.50000   -0.015778   -0.337433   -0.004848
 0.076008    0.166567   10.744323
0.75000   -0.015778   -0.337433   -0.004848
 0.076008    0.172575   11.162560
1.00000   -0.015778   -0.337433   -0.004848
 0.076008    0.178584   11.580796

LOAD     -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000   -0.615520   37.924111   -0.456096
-12.463406   -1.979820  -1108.815
0.25000   -0.615520   37.924111   -0.456096
-12.463406   -1.414505  -1155.821
0.50000   -0.615520   37.924111   -0.456096
-12.463406   -0.849191  -1202.826
0.75000   -0.615520   37.924111   -0.456096
-12.463406   -0.283876  -1249.832
1.00000   -0.615520   37.924111   -0.456096
-12.463406    0.281439  -1296.837

LOAD     -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.615520   -37.924111    0.456096
12.463406    1.979820   1108.815
0.25000    0.615520   -37.924111    0.456096
12.463406    1.414505   1155.821
0.50000    0.615520   -37.924111    0.456096
12.463406    0.849191   1202.826
0.75000    0.615520   -37.924111    0.456096
12.463406    0.283876   1249.832
1.00000    0.615520   -37.924111    0.456096
12.463406   -0.281439   1296.837

COMB  SETTLE ------------------ MAX

REL DIST          P             V2             V3
       T          M2             M3
0.00000    0.880826   37.924111    0.464518
12.463406    1.979820   1108.815
0.25000    0.880826   37.924111    0.464518
12.463406    1.414505   1155.821
0.50000    0.880826   37.924111    0.464518
12.463406    1.302569   1202.826
0.75000    0.880826   37.924111    0.464518
12.463406    1.306999   1249.832
1.00000    0.880826   37.924111    0.464518
12.463406    1.735330   1296.837

COMB  SETTLE ------------------ MIN
```

```
REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.615520  -37.924111   -0.474851
-12.463406  -1.979820   -1108.815
 0.25000   -0.615520  -37.924111   -0.474851
-12.463406  -1.414505   -1155.821
 0.50000   -0.615520  -37.924111   -0.474851
-12.463406  -0.849191   -1202.826
 0.75000   -0.615520  -37.924111   -0.474851
-12.463406  -1.195698   -1249.832
 1.00000   -0.615520  -37.924111   -0.474851
-12.463406  -1.771452   -1296.837
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                          Page
<           UNEQUAL          SETTLEMENT          >
                            174

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       61 ================== LENGTH
=     4.957653

LOAD     -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.490320   14.822709   -0.683373
-7.281647   -0.068703   -505.729354
 0.25000   -0.490320   14.822709   -0.683373
-7.281647    0.778278   -524.100817
 0.50000   -0.490320   14.822709   -0.683373
-7.281647    1.625260   -542.472280
 0.75000   -0.490320   14.822709   -0.683373
-7.281647    2.472241   -560.843743
 1.00000   -0.490320   14.822709   -0.683373
-7.281647    3.319222   -579.215206

LOAD     -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.867934  -31.243447    0.879429
 9.166191   -0.482830    1067.026
 0.25000    0.867934  -31.243447    0.879429
 9.166191   -1.572806    1105.749
 0.50000    0.867934  -31.243447    0.879429
 9.166191   -2.662782    1144.473
 0.75000    0.867934  -31.243447    0.879429
 9.166191   -3.752758    1183.196
 1.00000    0.867934  -31.243447    0.879429
 9.166191   -4.842734    1221.920

LOAD     -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.188735   21.330427   -0.213440
-3.311273   -0.136057   -728.842667
 0.25000   -0.188735   21.330427   -0.213440
-3.311273    0.128483   -755.279882
 0.50000   -0.188735   21.330427   -0.213440
-3.311273    0.393303   -781.717097
 0.75000   -0.188735   21.330427   -0.213440
-3.311273    0.657563   -808.154312
 1.00000   -0.188735   21.330427   -0.213440
-3.311273    0.922104   -834.591526

LOAD     -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.245163   -6.391029    0.013192
 1.889043   1.122917   218.108809
 0.25000   -0.245163   -6.391029    0.013192
 1.889043   1.106567   226.029936
 0.50000   -0.245163   -6.391029    0.013192
 1.889043   1.090217   233.951063
 0.75000   -0.245163   -6.391029    0.013192
 1.889043   1.073867   241.872189
 1.00000   -0.245163   -6.391029    0.013192
 1.889043   1.057516   249.793316

LOAD     -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.072120    1.820668    0.011436
-0.626141   -0.592577   -62.144046
 0.25000    0.072120    1.820668    0.011436
-0.626141   -0.606751   -64.400626
 0.50000    0.072120    1.820668    0.011436
-0.626141   -0.620924   -66.657166
 0.75000    0.072120    1.820668    0.011436
-0.626141   -0.635098   -68.913725
 1.00000    0.072120    1.820668    0.011436
-0.626141   -0.649272   -71.170285

LOAD     -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.015836   -0.339327   -0.007244
 0.163827   0.184185   12.843189
 0.25000   -0.015836   -0.339327   -0.007244
 0.163827   0.175250   12.002056
 0.50000   -0.015836   -0.339327   -0.007244
 0.163827   0.166228   12.002056
 0.50000   -0.015836   -0.339327   -0.007244
 0.163827   0.175207   12.422623
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                          Page
<           UNEQUAL          SETTLEMENT          >
                            175

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
 0.75000   -0.015836   -0.339327   -0.007244
 0.163827   0.184185   12.843189
 1.00000   -0.015836   -0.339327   -0.007244
 0.163827   0.193163   13.263756

LOAD   -2N+1- ----------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.606935   37.973804   -0.885377
-11.219062  -1.297337   -1296.716
 0.25000   -0.606935   37.973804   -0.885377
-11.219062   0.300011   -1343.781
 0.50000   -0.606935   37.973804   -0.885377
-11.219062   1.397359   -1390.847
 0.75000   -0.606935   37.973804   -0.885377
-11.219062   2.494707   -1437.912
 1.00000   -0.606935   37.973804   -0.885377
-11.219062   3.592055   -1484.977

LOAD   -2N+2- ----------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.606935  -37.973804    0.885377
 11.219062   0.797337   1296.716
 0.25000    0.606935  -37.973804    0.885377
 11.219062  -0.300011   1343.781
 0.50000    0.606935  -37.973804    0.885377
 11.219062  -1.397359   1390.847
 0.75000    0.606935  -37.973804    0.885377
 11.219062  -2.494707   1437.912
 1.00000    0.606935  -37.973804    0.885377
 11.219062  -3.592055   1484.977

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.867934   37.973804    0.885377
 11.219062   1.122917   1296.716
 0.25000    0.867934   37.973804    0.885377
 11.219062   1.106567   1343.781
 0.50000    0.867934   37.973804    0.885377
 11.219062   1.625260   1390.847
 0.75000    0.867934   37.973804    0.885377
 11.219062   2.494707   1437.912
 1.00000    0.867934   37.973804    0.885377
 11.219062   3.592055   1484.977

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.606935  -37.973804   -0.885377
-11.219062  -0.797337   -1296.716
 0.25000   -0.606935  -37.973804   -0.885377
-11.219062  -1.572806   -1343.781
 0.50000   -0.606935  -37.973804   -0.885377
-11.219062  -2.662782   -1390.847
 0.75000   -0.606935  -37.973804   -0.885377
-11.219062  -3.752758   -1437.912
 1.00000   -0.606935  -37.973804   -0.885377
-11.219062  -4.842734   -1484.977

ELEM       62 ================== LENGTH
=     4.958565

LOAD     -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.486019   14.653790   -1.329377
-4.408472    1.839568   -579.097578
 0.25000   -0.486019   14.653790   -1.329377
-4.408472    3.487518   -597.263022
 0.50000   -0.486019   14.653790   -1.329377
-4.408472    5.135468   -615.428466
 0.75000   -0.486019   14.653790   -1.329377
-4.408472    6.783418   -633.593910
 1.00000   -0.486019   14.653790   -1.329377
-4.408472    8.431368   -651.759353
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                          Page
<           UNEQUAL          SETTLEMENT          >
                            176

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.860424  -30.933882    2.190586
 3.418102   -4.224161   1221.852
 0.25000    0.860424  -30.933882    2.190586
 3.418102   -6.946702   1260.199
 0.50000    0.860424  -30.933882    2.190586
 3.418102   -9.662243   1298.546
 0.75000    0.860424  -30.933882    2.190586
 3.418102  -12.377784   1336.893
 1.00000    0.860424  -30.933882    2.190586
 3.418102  -15.093325   1375.240

LOAD     -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.188879   21.199494   -0.960640
-0.809103   2.032509   -834.647776
 0.25000   -0.188879   21.199494   -0.960640
-0.809103   3.223359   -860.927544
 0.50000   -0.188879   21.199494   -0.960640
-0.809103   4.414208   -887.207313
 0.75000   -0.188879   21.199494   -0.960640
-0.809103   5.605058   -913.487081
 1.00000   -0.188879   21.199494   -0.960640
-0.809103   6.795907   -939.766850

LOAD     -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.240740   -6.401537    0.111924
 2.419610   0.740884   249.801781
 0.25000   -0.240740   -6.401537    0.111924
 2.419610   0.602138   257.737391
 0.50000   -0.240740   -6.401537    0.111924
 2.419610   0.463392   265.673001
 0.75000   -0.240740   -6.401537    0.111924
 2.419610   0.324646   273.608611
 1.00000   -0.240740   -6.401537    0.111924
 2.419610   0.185900   281.544221

LOAD     -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.071150    1.822665    0.000647
-0.898747   -0.547230   -71.172689
 0.25000    0.071150    1.822665    0.000647
-0.898747   -0.548033   -73.432141
 0.50000    0.071150    1.822665    0.000647
-0.898747   -0.548835   -75.691592
 0.75000    0.071150    1.822665    0.000647
-0.898747   -0.549638   -77.951043
 1.00000    0.071150    1.822665    0.000647
-0.898747   -0.550440   -80.210495

LOAD     -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.015937   -0.340530   -0.013141
 0.278609   0.165431   13.264345
 0.25000   -0.015937   -0.340530   -0.013141
 0.278609   0.181720   13.686480
 0.50000   -0.015937   -0.340530   -0.013141
 0.278609   0.198010   14.108616
 0.75000   -0.015937   -0.340530   -0.013141
 0.278609   0.214299   14.530751
 1.00000   -0.015937   -0.340530   -0.013141
 0.278609   0.230589   14.952886

LOAD   -2N+1- ----------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.603747   37.675949   -2.289370
-6.116322   3.324847   -1484.918
 0.25000   -0.603747   37.675949   -2.289370
-6.116322   6.162844   -1531.623
 0.50000   -0.603747   37.675949   -2.289370
-6.116322   9.000841   -1578.327
 0.75000   -0.603747   37.675949   -2.289370
-6.116322   11.838838   -1625.032
 1.00000   -0.603747   37.675949   -2.289370
-6.116322   14.676836   -1671.737
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                          Page
<           UNEQUAL          SETTLEMENT          >
                            177

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ----------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.603747  -37.675949    2.289370
 6.116322   -3.324847   1484.918
 0.25000    0.603747  -37.675949    2.289370
 6.116322   -6.162844   1531.623
 0.50000    0.603747  -37.675949    2.289370
 6.116322   -9.000841   1578.327
 0.75000    0.603747  -37.675949    2.289370
 6.116322  -11.838838   1625.032
 1.00000    0.603747  -37.675949    2.289370
 6.116322  -14.676836   1671.737

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.860424   37.675949    2.289370
 6.116322   3.324847   1484.918
 0.25000    0.860424   37.675949    2.289370
 6.116322   6.162844   1531.623
 0.50000    0.860424   37.675949    2.289370
 6.116322   9.000841   1578.327
 0.75000    0.860424   37.675949    2.289370
 6.116322   11.838838   1625.032
 1.00000    0.860424   37.675949    2.289370
 6.116322   14.676836   1671.737

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.603747  -37.675949   -2.289370
-6.116322  -4.231161   -1484.918
 0.25000   -0.603747  -37.675949   -2.289370
-6.116322  -6.946702   -1531.623
 0.50000   -0.603747  -37.675949   -2.289370
-6.116322  -9.662243   -1578.327
 0.75000   -0.603747  -37.675949   -2.289370
-6.116322  -12.377784   -1625.032
 1.00000   -0.603747  -37.675949   -2.289370
-6.116322  -15.093325   -1671.737

ELEM       63 ================== LENGTH
=     3.469994

LOAD     -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.563402  -16.279022    1.042109
-3.490792   7.218005   -651.771442
 0.25000   -0.563402  -16.279022    1.042109
-3.490792   6.314177   -637.649415
 0.50000   -0.563402  -16.279022    1.042109
-3.490792   5.410149   -623.527388
 0.75000   -0.563402  -16.279022    1.042109
-3.490792   4.506122   -609.405362
 1.00000   -0.563402  -16.279022    1.042109
-3.490792   3.602094   -595.283335

LOAD     -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.020877   44.031573   -2.548937
 2.062674  -15.191475    1375.443
 0.25000    1.020877   44.031573   -2.548937
 2.062674  -12.980276    1337.246
 0.50000    1.020877   44.031573   -2.548937
 2.062674  -10.769076    1299.049
 0.75000    1.020877   44.031573   -2.548937
 2.062674   -8.557877    1260.851
 1.00000    1.020877   44.031573   -2.548937
 2.062674   -6.346678    1222.654

LOAD     -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.286021  -45.739177    1.675448
-0.885803   8.471858   -939.984089
 0.25000   -0.286021  -45.739177    1.675448
-0.885803   7.018409   -900.305424
 0.50000   -0.286021  -45.739177    1.675448
-0.885803   5.564960   -860.626759
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                          Page
<           UNEQUAL          SETTLEMENT          >
                            178

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
 0.75000   -0.286021  -45.739177    1.675448
-0.885803   4.111511   -820.948094
 1.00000   -0.286021  -45.739177    1.675448
-0.885803   2.658062   -781.269429

LOAD     -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.224099   23.410848   -0.178595
 3.078103   -0.287942   281.574901
 0.25000   -0.224099   23.410848   -0.178595
 3.078103   -0.133011   261.266027
 0.50000   -0.224099   23.410848   -0.178595
 3.078103    0.021920   240.957152
 0.75000   -0.224099   23.410848   -0.178595
 3.078103    0.176851   220.648278
 1.00000   -0.224099   23.410848   -0.178595
 3.078103    0.331782   200.339404

LOAD     -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.069655   -6.667513   -0.008755
-1.109196   -0.405221   -80.215121
 0.25000    0.069655   -6.667513   -0.008755
-1.109196   -0.397626   -74.431064
 0.50000    0.069655   -6.667513   -0.008755
-1.109196   -0.390031   -68.647008
 0.75000    0.069655   -6.667513   -0.008755
-1.109196   -0.382435   -62.862951
 1.00000    0.069655   -6.667513   -0.008755
-1.109196   -0.374840   -57.078894

LOAD     -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.017010    1.243291    0.018731
 0.345014   0.194575   14.952402
 0.25000   -0.017010    1.243291    0.018731
 0.345014   0.187326   13.873849
 0.50000   -0.017010    1.243291    0.018731
 0.345014   0.162077   12.795296
 0.75000   -0.017010    1.243291    0.018731
 0.345014   0.145828   11.716743
 1.00000   -0.017010    1.243291    0.018731
 0.345014   0.129579   10.638190

LOAD   -2N+1- ----------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.779768  -68.685712    2.708802
-5.485792  -15.284841   -1671.971
 0.25000   -0.779768  -68.685712    2.708802
-5.485792  -12.934960   -1612.386
 0.50000   -0.779768  -68.685712    2.708802
-5.485792  -10.585079   -1552.801
 0.75000   -0.779768  -68.685712    2.708802
-5.485792   -8.235197   -1493.216
 1.00000   -0.779768  -68.685712    2.708802
-5.485792   -5.885316   -1433.632

LOAD   -2N+2- ----------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.779768   68.685712   -2.708802
 5.485792   15.284841   1671.971
 0.25000    0.779768   68.685712   -2.708802
 5.485792   12.934960   1612.386
 0.50000    0.779768   68.685712   -2.708802
 5.485792   10.585079   1552.801
 0.75000    0.779768   68.685712   -2.708802
 5.485792    8.235197   1493.216
 1.00000    0.779768   68.685712   -2.708802
 5.485792    5.885316   1433.632

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    1.020877   68.685712    2.708802
 5.485792   15.284841   1671.971
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                          Page
<           UNEQUAL          SETTLEMENT          >
                            179

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
 0.25000    1.020877   68.685712    2.708802
 5.485792   12.934960   1612.386
 0.50000    1.020877   68.685712    2.708802
 5.485792   10.585079   1552.801
 0.75000    1.020877   68.685712    2.708802
 5.485792    8.235197   1493.216
 1.00000    1.020877   68.685712    2.708802
 5.485792    5.885316   1433.632

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.779768  -68.685712   -2.708802
-5.485792  -15.284841   -1671.971
 0.25000   -0.779768  -68.685712   -2.708802
-5.485792  -12.980276   -1612.386
 0.50000   -0.779768  -68.685712   -2.708802
-5.485792  -10.769076   -1552.801
 0.75000   -0.779768  -68.685712   -2.708802
-5.485792   -8.557877   -1493.216
 1.00000   -0.779768  -68.685712   -2.708802
-5.485792   -6.346678   -1433.632

ELEM       64 ================== LENGTH
=     4.958201

LOAD     -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.550940  -16.418940    0.270293
 0.371574   2.639944   -595.222412
 0.25000   -0.550940  -16.418940    0.270293
 0.371574   2.304903   -574.870309
 0.50000   -0.550940  -16.418940    0.270293
 0.371574   1.969861   -554.518206
 0.75000   -0.550940  -16.418940    0.270293
 0.371574   1.634819   -534.166103
 1.00000   -0.550940  -16.418940    0.270293
 0.371574   1.299777   -513.813999

LOAD     -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.997572   44.264947   -1.046315
-5.243179   -6.970426    1222.704
 0.25000    0.997572   44.264947   -1.046315
-5.243179   -5.673466    1167.835
 0.50000    0.997572   44.264947   -1.046315
-5.243179   -4.376506    1112.966
 0.75000    0.997572   44.264947   -1.046315
-5.243179   -3.079545    1058.098
 1.00000    0.997572   44.264947   -1.046315
-5.243179   -1.782585    1003.229

LOAD     -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.277598  -45.791181    0.853191
 2.835890   4.677972   -781.397739
 0.25000   -0.277598  -45.791181    0.853191
 2.835890   3.620339   -724.157265
 0.50000   -0.277598  -45.791181    0.853191
 2.835890   2.562827   -667.876791
 0.75000   -0.277598  -45.791181    0.853191
 2.835890   1.505254   -611.116317
 1.00000   -0.277598  -45.791181    0.853191
 2.835890   0.447681   -554.355844

LOAD     -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.220676   23.359560   -0.068903
 2.757717   -0.230913   200.362274
 0.25000   -0.220676   23.359560   -0.068903
 2.757717   -0.145504   171.406923
 0.50000   -0.220676   23.359560   -0.068903
 2.757717   -0.060095   142.451572
 0.75000   -0.220676   23.359560   -0.068903
 2.757717    0.025314   113.496220
 1.00000   -0.220676   23.359560   -0.068903
 2.757717    0.110723   84.540869
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                          Page
<           UNEQUAL          SETTLEMENT          >
                            180

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.068686   -6.654212   -0.019600
-1.119398   -0.205738   -57.084780
 0.25000    0.068686   -6.654212   -0.019600
-1.119398   -0.181444   -48.836550
 0.50000    0.068686   -6.654212   -0.019600
-1.119398   -0.157149   -40.588319
 0.75000    0.068686   -6.654212   -0.019600
-1.119398   -0.132854   -32.340089
 1.00000    0.068686   -6.654212   -0.019600
-1.119398   -0.108560   -24.091858

LOAD     -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.017043    1.239825    0.011334
 0.397396   0.089161   10.639156
 0.25000   -0.017043    1.239825    0.011334
 0.397396   0.075111   9.102331
 0.50000   -0.017043    1.239825    0.011334
 0.397396   0.061062   7.565506
 0.75000   -0.017043    1.239825    0.011334
 0.397396   0.047013   6.028680
 1.00000   -0.017043    1.239825    0.011334
 0.397396   0.032964   4.491855

LOAD   -2N+1- ----------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000   -0.759852  -68.864333    1.103884
 2.088066   7.112179   -1433.705
 0.25000   -0.759852  -68.864333    1.103884
 2.088066   5.743858   -1348.344
 0.50000   -0.759852  -68.864333    1.103884
 2.088066   4.375538   -1262.983
 0.75000   -0.759852  -68.864333    1.103884
 2.088066   3.007218   -1177.623
 1.00000   -0.759852  -68.864333    1.103884
 2.088066   1.638898   -1092.262

LOAD   -2N+2- ----------------------

REL DIST          P          V2          V3
        T         M2          M3
 0.00000    0.759852   68.864333   -1.103884
-2.088066  -7.112179    1433.705
 0.25000    0.759852   68.864333   -1.103884
-2.088066  -5.743858    1348.344
 0.50000    0.759852   68.864333   -1.103884
-2.088066  -4.375538    1262.983
 0.75000    0.759852   68.864333   -1.103884
-2.088066  -3.007218    1177.623
 1.00000    0.759852   68.864333   -1.103884
-2.088066  -1.638898    1092.262

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
```

```
 0.00000     0.997572    68.864333     1.103884
 2.835890    7.112179    1433.705
 0.25000     0.997572    68.864333     1.103884
 2.835890    5.743658    1348.344
 0.50000     0.997572    68.864333     1.103884
 2.835890    4.375538    1262.983
 0.75000     0.997572    68.864333     1.103884
 2.835890    3.007218    1177.623
 1.00000     0.997572    68.864333     1.103884
 2.835890    1.638898    1092.262

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.759852   -68.864333   -1.103884
-5.243179   -7.112179   -1433.705
 0.25000    -0.759852   -68.864333   -1.103884
-5.243179   -5.743658   -1348.344
 0.50000    -0.759852   -68.864333   -1.103884
-5.243179   -4.376506   -1262.983
 0.75000    -0.759852   -68.864333   -1.103884
-5.243179   -3.079545   -1177.623
 1.00000    -0.759852   -68.864333   -1.103884
-5.243179   -1.782585   -1092.262
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 181

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      65 ================== LENGTH
=     4.957300

LOAD     -A1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.541315   -16.396138    0.020497
 1.813152    0.710313   -513.784343
 0.25000    -0.541315   -16.396138    0.020497
 1.813152    0.684911   -493.464198
 0.50000    -0.541315   -16.396138    0.020497
 1.813152    0.659508   -473.144052
 0.75000    -0.541315   -16.396138    0.020497
 1.813152    0.634105   -452.823907
 1.00000    -0.541315   -16.396138    0.020497
 1.813152    0.608702   -432.503762

LOAD     -P1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.978921    44.196592   -0.518426
-8.090930   -3.026883    1003.339
 0.25000     0.978921    44.196592   -0.518426
-8.090930   -2.384384    948.564703
 0.50000     0.978921    44.196592   -0.518426
-8.090930   -1.741886    893.790758
 0.75000     0.978921    44.196592   -0.518426
-8.090930   -1.099387    839.016813
 1.00000     0.978921    44.196592   -0.518426
-8.090930   -0.456888    784.242869

LOAD     -P2 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.270591   -45.714650    0.536937
 4.440746    2.755010   -554.513444
 0.25000    -0.270591   -45.714650    0.536937
 4.440746    2.089570   -497.858132
 0.50000    -0.270591   -45.714650    0.536937
 4.440746    1.424131   -441.202821
 0.75000    -0.270591   -45.714650    0.536937
 4.440746    0.758691   -384.547509
 1.00000    -0.270591   -45.714650    0.536937
 4.440746    0.093251   -327.892197

LOAD     -P3 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.217756    23.319941   -0.022163
 2.526597   -0.502159    84.563804
 0.25000    -0.217756    23.319941   -0.022163
 2.526597   -0.474691    55.662817
 0.50000    -0.217756    23.319941   -0.022163
 2.526597   -0.447224    26.761830
 0.75000    -0.217756    23.319941   -0.022163
 2.526597   -0.419756   -2.139157
 1.00000    -0.217756    23.319941   -0.022163
 2.526597   -0.392289   -31.040143

LOAD     -P4 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.067846    -6.643290   -0.026213
-1.122878    0.073640   -24.096916
 0.25000     0.067846    -6.643290   -0.026213
-1.122878    0.106126   -15.863721
 0.50000     0.067846    -6.643290   -0.026213
-1.122878    0.138612    -7.630525
 0.75000     0.067846    -6.643290   -0.026213
-1.122878    0.171098     0.602670
 1.00000     0.067846    -6.643290   -0.026213
-1.122878    0.203584     8.835865

LOAD     -P5 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.017106    1.237545    0.009368
 0.433312   -0.009922    4.492251
 0.25000    -0.017106    1.237545    0.009368
 0.433312   -0.025531    2.958531
 0.50000    -0.017106    1.237545    0.009368
 0.433312   -0.033141    1.424810
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 182

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.75000    -0.017106    1.237545    0.009368
 0.433312   -0.044751   -0.108911
 1.00000    -0.017106    1.237545    0.009368
 0.433312   -0.056360   -1.642632

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.744060   -68.754078    0.531222
 5.131020    3.538964    -1092.395
 0.25000    -0.744060   -68.754078    0.531222
 5.131020    2.880607    -1007.186
 0.50000    -0.744060   -68.754078    0.531222
 5.131020    2.222250    -921.977398
 0.75000    -0.744060   -68.754078    0.531222
 5.131020    1.563894    -836.768746
 1.00000    -0.744060   -68.754078    0.531222
 5.131020    0.905537    -751.560094

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.744060    68.754078   -0.531222
-5.131020   -3.538964    1092.395
 0.25000     0.744060    68.754078   -0.531222
-5.131020   -2.880607    1007.186
 0.50000     0.744060    68.754078   -0.531222
-5.131020   -2.222250    921.977398
 0.75000     0.744060    68.754078   -0.531222
-5.131020   -1.563894    836.768746
 1.00000     0.744060    68.754078   -0.531222
-5.131020   -0.905537    751.560094

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.978921    68.754078    0.536937
 5.131020    3.538964    1092.395
 0.25000     0.978921    68.754078    0.536937
 5.131020    2.880607    1007.186
 0.50000     0.978921    68.754078    0.536937
 5.131020    2.222250    921.977398
 0.75000     0.978921    68.754078    0.536937
 5.131020    1.563894    839.016813
 1.00000     0.978921    68.754078    0.536937
 5.131020    0.905537    784.242869

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.744060   -68.754078   -0.531222
-8.090930   -3.538964   -1092.395
 0.25000    -0.744060   -68.754078   -0.531222
-8.090930   -2.880607   -1007.186
 0.50000    -0.744060   -68.754078   -0.531222
-8.090930   -2.222250   -921.977398
 0.75000    -0.744060   -68.754078   -0.531222
-8.090930   -1.563894   -836.768746
 1.00000    -0.744060   -68.754078   -0.531222
-8.090930   -0.905537   -751.560094

ELEM      66 ================== LENGTH
=     4.958662

LOAD     -A1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.533381   -16.470531    0.016345
 1.937186    0.308336   -432.495264
 0.25000    -0.533381   -16.470531    0.016345
 1.937186    0.288074   -412.077315
 0.50000    -0.533381   -16.470531    0.016345
 1.937186    0.267812   -391.659366
 0.75000    -0.533381   -16.470531    0.016345
 1.937186    0.247551   -371.241417
 1.00000    -0.533381   -16.470531    0.016345
 1.937186    0.227289   -350.823469
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 183

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.963479    44.311770   -0.497016
-8.603812   -2.266950    784.392952
 0.25000     0.963479    44.311770   -0.497016
-8.603812   -1.650817    729.461179
 0.50000     0.963479    44.311770   -0.497016
-8.603812   -1.034684    674.529406
 0.75000     0.963479    44.311770   -0.497016
-8.603812   -0.418551    619.597633
 1.00000     0.963479    44.311770   -0.497016
-8.603812    0.197582    564.665860

LOAD     -P2 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.264931   -45.727619    0.517751
 5.219505    2.693921   -328.072243
 0.25000    -0.264931   -45.727619    0.517751
 5.219505    2.052082   -271.385291
 0.50000    -0.264931   -45.727619    0.517751
 5.219505    1.410244   -214.698340
 0.75000    -0.264931   -45.727619    0.517751
 5.219505    0.768405   -158.011388
 1.00000    -0.264931   -45.727619    0.517751
 5.219505    0.126567   -101.324436

LOAD     -P3 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.215060    23.283649   -0.019203
 2.036967   -1.026161   -31.013166
 0.25000    -0.215060    23.283649   -0.019203
 2.036967   -1.002356   -59.877103
 0.50000    -0.215060    23.283649   -0.019203
 2.036967   -0.978552   -88.741039
 0.75000    -0.215060    23.283649   -0.019203
 2.036967   -0.954747   -117.604975
 1.00000    -0.215060    23.283649   -0.019203
 2.036967   -0.930942   -146.468911

LOAD     -P4 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.067108    -6.632916   -0.027276
-1.020530    0.392129     8.829762
 0.25000     0.067108    -6.632916   -0.027276
-1.020530    0.425942    17.052360
 0.50000     0.067108    -6.632916   -0.027276
-1.020530    0.459755    25.274957
 0.75000     0.067108    -6.632916   -0.027276
-1.020530    0.493567    33.497554
 1.00000     0.067108    -6.632916   -0.027276
-1.020530    0.527380    41.720151

LOAD     -P5 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.017216    1.235646    0.009398
 0.430684   -0.101275   -1.642042
 0.25000    -0.017216    1.235646    0.009398
 0.430684   -0.112925   -3.173830
 0.50000    -0.017216    1.235646    0.009398
 0.430684   -0.124575   -4.705618
 0.75000    -0.017216    1.235646    0.009398
 0.430684   -0.136225   -6.237407
 1.00000    -0.017216    1.235646    0.009398
 0.430684   -0.147875   -7.769195

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.731203   -68.831065    0.506820
 6.136161    3.394386   -751.737744
 0.25000    -0.731203   -68.831065    0.506820
 6.136161    2.766099   -666.410246
 0.50000    -0.731203   -68.831065    0.506820
 6.136161    2.137811   -581.082749
 0.75000    -0.731203   -68.831065    0.506820
 6.136161    1.509523   -495.755251
 1.00000    -0.731203   -68.831065    0.506820
 6.136161    0.881235   -410.427754
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 184

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.731203    68.831065   -0.506820
-6.136161   -3.394386    751.737744
 0.25000     0.731203    68.831065   -0.506820
-6.136161   -2.766099    666.410246
 0.50000     0.731203    68.831065   -0.506820
-6.136161   -2.137811    581.082749
 0.75000     0.731203    68.831065   -0.506820
-6.136161   -1.509523    495.755251
 1.00000     0.731203    68.831065   -0.506820
-6.136161   -0.881235    410.427754

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.963479    68.831065    0.517751
 6.136161    3.394386    784.392952
 0.25000     0.963479    68.831065    0.517751
 6.136161    2.766099    729.461179
 0.50000     0.963479    68.831065    0.517751
 6.136161    2.137811    674.529406
 0.75000     0.963479    68.831065    0.517751
 6.136161    1.509523    619.597633
 1.00000     0.963479    68.831065    0.517751
 6.136161    0.881235    564.665860

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.731203   -68.831065   -0.506820
-8.603812   -3.394386   -751.737744
 0.25000    -0.731203   -68.831065   -0.506820
-8.603812   -2.766099   -666.410246
 0.50000    -0.731203   -68.831065   -0.506820
-8.603812   -2.137811   -581.082749
 0.75000    -0.731203   -68.831065   -0.506820
-8.603812   -1.509523   -495.755251
 1.00000    -0.731203   -68.831065   -0.506820
-8.603812   -0.930942   -410.427754

ELEM      67 ================== LENGTH
=     4.958084

LOAD     -A1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.526294   -16.395484    0.062071
 1.200358    0.194342   -350.829506
 0.25000    -0.526294   -16.395484    0.062071
 1.200358    0.117494   -330.506858
 0.50000    -0.526294   -16.395484    0.062071
 1.200358    0.040646   -310.184410
 0.75000    -0.526294   -16.395484    0.062071
 1.200358   -0.036472   -289.861862
 1.00000    -0.526294   -16.395484    0.062071
 1.200358   -0.113410   -269.539314

LOAD     -P1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.949788    44.173435   -0.597374
-7.695962   -2.081112    564.843964
 0.25000     0.949788    44.173435   -0.597374
-7.695962   -1.340655    510.090059
 0.50000     0.949788    44.173435   -0.597374
-7.695962   -0.600197    455.336154
 0.75000     0.949788    44.173435   -0.597374
-7.695962    0.140261    400.582249
 1.00000     0.949788    44.173435   -0.597374
-7.695962    0.880718    345.828345

LOAD     -P2 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.259963   -45.665254    0.580477
 5.716930    2.883362   -101.517621
 0.25000    -0.259963   -45.665254    0.580477
 5.716930    2.163849   -44.914576
 0.50000    -0.259963   -45.665254    0.580477
 5.716930    1.444335    11.688470
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 185

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.75000    -0.259963   -45.665254    0.580477
 5.716930    0.724822    68.291516
 1.00000    -0.259963   -45.665254    0.580477
 5.716930    0.005308    124.894561

LOAD     -P3 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.212615    23.284507   -0.028851
 1.179272   -1.505968   -146.442492
 0.25000    -0.212615    23.284507   -0.028851
 1.179272   -1.470207   -175.304130
 0.50000    -0.212615    23.284507   -0.028851
 1.179272   -1.434446   -204.165767
 0.75000    -0.212615    23.284507   -0.028851
 1.179272   -1.398685   -233.027404
 1.00000    -0.212615    23.284507   -0.028851
 1.179272   -1.362924   -261.889042

LOAD     -P4 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.066439    -6.633128   -0.025769
-0.787300    0.700531    41.714313
 0.25000     0.066439    -6.633128   -0.025769
-0.787300    0.732473    49.936215
 0.50000     0.066439    -6.633128   -0.025769
-0.787300    0.764414    58.158117
 0.75000     0.066439    -6.633128   -0.025769
-0.787300    0.796356    66.380018
 1.00000     0.066439    -6.633128   -0.025769
-0.787300    0.828297    74.601920

LOAD     -P5 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.017355    1.235924    0.009446
 0.386702   -0.191156   -7.768657
 0.25000    -0.017355    1.235924    0.009446
 0.386702   -0.202864   -9.300611
 0.50000    -0.017355    1.235924    0.009446
 0.386702   -0.214573   -10.832564
 0.75000    -0.017355    1.235924    0.009446
 0.386702   -0.226282   -12.364517
 1.00000    -0.017355    1.235924    0.009446
 0.386702   -0.237990   -13.896471

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.719819   -68.693865    0.616779
 6.129988    3.778236   -410.632814
 0.25000    -0.719819   -68.693865    0.616779
 6.129988    3.013726   -325.485319
 0.50000    -0.719819   -68.693865    0.616779
 6.129988    2.249216   -240.337823
 0.75000    -0.719819   -68.693865    0.616779
 6.129988    1.484706   -155.190328
 1.00000    -0.719819   -68.693865    0.616779
 6.129988    0.720196   -70.042832

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.719819    68.693865   -0.616779
-6.129988   -3.778236    410.632814
 0.25000     0.719819    68.693865   -0.616779
-6.129988   -3.013726    325.485319
 0.50000     0.719819    68.693865   -0.616779
-6.129988   -2.249216    240.337823
 0.75000     0.719819    68.693865   -0.616779
-6.129988   -1.484706    155.190328
 1.00000     0.719819    68.693865   -0.616779
-6.129988   -0.720196    70.042832

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.949788    68.693865    0.616779
 6.129988    3.778236    564.843964
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 186

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
 0.25000     0.949788    68.693865    0.616779
 6.129988    3.013726    510.090059
 0.50000     0.949788    68.693865    0.616779
 6.129988    2.249216    455.336154
 0.75000     0.949788    68.693865    0.616779
 6.129988    1.484706    400.582249
 1.00000     0.949788    68.693865    0.616779
 6.129988    0.880718    345.828345

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.719819   -68.693865   -0.616779
-7.695962   -3.778236   -410.632814
 0.25000    -0.719819   -68.693865   -0.616779
-7.695962   -3.013726   -330.506958
 0.50000    -0.719819   -68.693865   -0.616779
-7.695962   -2.249216   -310.184410
 0.75000    -0.719819   -68.693865   -0.616779
-7.695962   -1.484706   -289.861862
 1.00000    -0.719819   -68.693865   -0.616779
-7.695962   -1.362924   -269.539314

ELEM      68 ================== LENGTH
=     4.957689

LOAD     -A1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.519961   -16.392195    0.089176
 0.320836    0.086789   -269.555403
 0.25000    -0.519961   -16.392195    0.089176
 0.320836   -0.023737   -249.238153
 0.50000    -0.519961   -16.392195    0.089176
 0.320836   -0.134263   -228.921303
 0.75000    -0.519961   -16.392195    0.089176
 0.320836   -0.244790   -208.604454
 1.00000    -0.519961   -16.392195    0.089176
 0.320836   -0.355316   -188.287604

LOAD     -P1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.937456    44.173269   -0.640693
-6.711299   -1.748181    346.021034
 0.25000     0.937456    44.173269   -0.640693
-6.711299   -0.954092    291.271707
 0.50000     0.937456    44.173269   -0.640693
-6.711299   -0.160003    236.522379
 0.75000     0.937456    44.173269   -0.640693
-6.711299    0.634086    181.773051
 1.00000     0.937456    44.173269   -0.640693
-6.711299    1.428175    127.023724

LOAD     -P2 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.255346   -45.674519    0.591342
 6.498282    2.763425    124.699410
 0.25000    -0.255346   -45.674519    0.591342
 6.498282    2.030503    181.309421
 0.50000    -0.255346   -45.674519    0.591342
 6.498282    1.297581    237.919432
 0.75000    -0.255346   -45.674519    0.591342
 6.498282    0.564659    294.529442
 1.00000    -0.255346   -45.674519    0.591342
 6.498282   -0.168263    351.139453

LOAD     -P3 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.210489    23.291861   -0.022833
 0.032255   -1.787647   -261.866479
 0.25000    -0.210489    23.291861   -0.022833
 0.032255   -1.759347   -290.734927
 0.50000    -0.210489    23.291861   -0.022833
 0.032255   -1.731047   -319.603376
 0.75000    -0.210489    23.291861   -0.022833
 0.032255   -1.702747   -348.471825
 1.00000    -0.210489    23.291861   -0.022833
 0.032255   -1.674448   -377.340274
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 187

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.065871    -6.635229   -0.026424
-0.441794    0.961113    74.596923
 0.25000     0.065871    -6.635229   -0.026424
-0.441794    0.993864    82.820773
 0.50000     0.065871    -6.635229   -0.026424
-0.441794    1.026616    91.044623
 0.75000     0.065871    -6.635229   -0.026424
-0.441794    1.059367    99.268473
 1.00000     0.065871    -6.635229   -0.026424
-0.441794    1.092118    107.492322

LOAD     -P5 ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.017532    1.236813    0.009433
 0.301720   -0.275500   -13.895886
 0.25000    -0.017532    1.236813    0.009433
 0.301720   -0.287192   -15.428820
 0.50000    -0.017532    1.236813    0.009433
 0.301720   -0.298883   -16.961754
 0.75000    -0.017532    1.236813    0.009433
 0.301720   -0.310575   -18.494687
 1.00000    -0.017532    1.236813    0.009433
 0.301720   -0.322267   -20.027621

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000    -0.709436   -68.701943    0.654093
 6.377324    3.811327    -70.258669
 0.25000    -0.709436   -68.701943    0.654093
 6.377324    3.000630    14.892041
 0.50000    -0.709436   -68.701943    0.654093
 6.377324    2.189933    100.042751
 0.75000    -0.709436   -68.701943    0.654093
 6.377324    1.379236    185.193461
 1.00000    -0.709436   -68.701943    0.654093
 6.377324    0.568539    270.344171

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
      T          M2          M3
 0.00000     0.709436    68.701943   -0.654093
-6.377324   -3.811327    70.258669
 0.25000     0.709436    68.701943   -0.654093
```

```
-6.377324   -3.000630   -14.892041
0.50000     0.709436    68.701943     -0.654093
-6.377324   -2.189933   -100.042751
0.75000     0.709436    68.701943     -0.654093
-6.377324   -1.379236   -185.193461
1.00000     0.709436    68.701943     -0.654093
-6.377324   -0.568539   -270.344171

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.937456    68.701943     0.654093
 6.498282    3.811327   346.021034
0.25000     0.937456    68.701943     0.654093
 6.498282    3.000630   291.271707
0.50000     0.937456    68.701943     0.654093
 6.498282    2.189933   237.919432
0.75000     0.937456    68.701943     0.654093
 6.498282    1.379236   294.529442
1.00000     0.937456    68.701943     0.654093
 6.498282    1.428175   351.139453

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.709436   -68.701943    -0.654093
-6.711299   -3.811327   -269.555003
0.25000    -0.709436   -68.701943    -0.654093
-6.711299   -3.000630   -290.734927
0.50000    -0.709436   -68.701943    -0.654093
-6.711299   -2.189933   -319.603376
0.75000    -0.709436   -68.701943    -0.654093
-6.711299   -1.702747   -348.471825
1.00000    -0.709436   -68.701943    -0.654093
-6.711299   -1.674448   -377.340274
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  188

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      69 ================== LENGTH =     4.957308

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.514251   -16.387301     0.096242
-0.494430    0.015652   -188.309418
0.25000    -0.514251   -16.387301     0.096242
-0.494430   -0.103623   -168.000194
0.50000    -0.514251   -16.387301     0.096242
-0.494430   -0.222898   -147.690969
0.75000    -0.514251   -16.387301     0.096242
-0.494430   -0.342174   -127.381745
1.00000    -0.514251   -16.387301     0.096242
-0.494430   -0.461449   -107.072521

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.925188    44.167013    -0.634416
-5.887504   -1.382599   127.225553
0.25000     0.925188    44.167013    -0.634416
-5.887504   -0.596351   72.488183
0.50000     0.925188    44.167013    -0.634416
-5.887504    0.189898   17.750814
0.75000     0.925188    44.167013    -0.634416
-5.887504    0.976147   -36.986556
1.00000     0.925188    44.167013    -0.634416
-5.887504    1.762395   -91.723925

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.249935   -45.674230     0.550335
 7.625132    2.416698   350.947161
0.25000    -0.249935   -45.674230     0.550335
 7.625132    1.734653   407.552466
0.50000    -0.249935   -45.674230     0.550335
 7.625132    1.052607   464.157770
0.75000    -0.249935   -45.674230     0.550335
 7.625132    0.370562   520.763075
1.00000    -0.249935   -45.674230     0.550335
 7.625132   -0.311484   577.368379

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.208640   23.292158     0.008271
-1.456782   -1.860067   -377.325370
0.25000    -0.208640   23.292158     0.008271
-1.456782   -1.870318   -406.191969
0.50000    -0.208640   23.292158     0.008271
-1.456782   -1.880569   -435.058568
0.75000    -0.208640   23.292158     0.008271
-1.456782   -1.890820   -463.925168
1.00000    -0.208640   23.292158     0.008271
-1.456782   -1.901071   -492.791767

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.065389   -6.634791    -0.029409
 0.069894    1.160462   107.489190
0.25000     0.065389   -6.634791    -0.029409
 0.069894    1.196909   115.711865
0.50000     0.065389   -6.634791    -0.029409
 0.069894    1.233356   123.934540
0.75000     0.065389   -6.634791    -0.029409
 0.069894    1.269803   132.157215
1.00000     0.065389   -6.634791    -0.029409
 0.069894    1.306250   140.379890

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.017751    1.237151     0.008976
 0.143690   -0.350146   -20.027117
0.25000    -0.017751    1.237151     0.008976
 0.143690   -0.361270   -21.560352
0.50000    -0.017751    1.237151     0.008976
 0.143690   -0.372394   -23.093587
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  189

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    -0.017751    1.237151     0.008976
 0.143690   -0.383518   -24.626822
1.00000    -0.017751    1.237151     0.008976
 0.143690   -0.394641   -26.160057

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.698797   -68.696322     0.617169
 7.200596    3.592813   270.126934
0.25000    -0.698797   -68.696322     0.617169
 7.200596    2.827939   355.264137
0.50000    -0.698797   -68.696322     0.617169
 7.200596    2.063065   440.401341
0.75000    -0.698797   -68.696322     0.617169
 7.200596    1.298191   525.538545
1.00000    -0.698797   -68.696322     0.617169
 7.200596    0.533317   610.675749

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.698797   -68.696322    -0.617169
-7.200596   -3.592813   -270.126934
0.25000    -0.698797   -68.696322    -0.617169
-7.200596   -2.827939   -355.264137
0.50000    -0.698797   -68.696322    -0.617169
-7.200596   -2.063065   -440.401341
0.75000    -0.698797   -68.696322    -0.617169
-7.200596   -1.298191   -525.538545
1.00000    -0.698797   -68.696322    -0.617169
-7.200596   -0.533317   -610.675749

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.925188    68.696322     0.617169
 7.625132    3.592813   350.947161
0.25000     0.925188    68.696322     0.617169
 7.625132    2.827939   407.552466
0.50000     0.925188    68.696322     0.617169
 7.625132    2.063065   464.157770
0.75000     0.925188    68.696322     0.617169
 7.625132    1.298191   525.538545
1.00000     0.925188    68.696322     0.617169
 7.625132    1.762395   610.675749

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.698797   -68.696322    -0.634416
-7.200596   -3.592813   -377.325370
0.25000    -0.698797   -68.696322    -0.634416
-7.200596   -2.827939   -406.191969
0.50000    -0.698797   -68.696322    -0.634416
-7.200596   -2.063065   -440.401341
0.75000    -0.698797   -68.696322    -0.634416
-7.200596   -1.890820   -525.538545
1.00000    -0.698797   -68.696322    -0.634416
-7.200596   -1.901071   -610.675749

ELEM      70 ================== LENGTH =     4.958153

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.509820   -16.381700     0.089943
-0.976408    0.016103   -107.097616
0.25000    -0.509820   -16.381700     0.089943
-0.976408   -0.095385   -86.791871
0.50000    -0.509820   -16.381700     0.089943
-0.976408   -0.206873   -66.486125
0.75000    -0.509820   -16.381700     0.089943
-0.976408   -0.318361   -46.180380
1.00000    -0.509820   -16.381700     0.089943
-0.976408   -0.429849   -25.874634
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  190

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.917124    44.219587    -0.572927
-5.390404   -1.055814   -91.527286
0.25000     0.917124    44.219587    -0.572927
-5.390404   -0.345649   -146.339159
0.50000     0.917124    44.219587    -0.572927
-5.390404    0.364516   -201.151033
0.75000     0.917124    44.219587    -0.572927
-5.390404    1.074682   -255.962906
1.00000     0.917124    44.219587    -0.572927
-5.390404    1.784847   -310.774780

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.247337   -45.817782     0.449059
 8.558606    1.922945   577.194787
0.25000    -0.247337   -45.817782     0.449059
 8.558606    1.366319   633.977685
0.50000    -0.247337   -45.817782     0.449059
 8.558606    0.809693   690.780583
0.75000    -0.247337   -45.817782     0.449059
 8.558606    0.253067   747.573481
1.00000    -0.247337   -45.817782     0.449059
 8.558606   -0.303559   804.366379

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.206923   23.402533     0.060642
-2.743583   -1.760365   -492.789909
0.25000    -0.206923   23.402533     0.060642
-2.743583   -1.835533   -521.798246
0.50000    -0.206923   23.402533     0.060642
-2.743583   -1.910701   -550.806583
0.75000    -0.206923   23.402533     0.060642
-2.743583   -1.985869   -579.814920
1.00000    -0.206923   23.402533     0.060642
-2.743583   -2.061037   -608.823258

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.064952   -6.663784    -0.035134
 0.652287    1.286335   140.379318
0.25000     0.064952   -6.663784    -0.035134
 0.652287    1.329884   148.639334
0.50000     0.064952   -6.663784    -0.035134
 0.652287    1.373433   156.899350
0.75000     0.064952   -6.663784    -0.035134
 0.652287    1.416983   165.159365
1.00000     0.064952   -6.663784    -0.035134
 0.652287    1.460532   173.419381

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.017996    1.241146     0.008416
-0.100498   -0.409204   -26.159294
0.25000    -0.017996    1.241146     0.008416
-0.100498   -0.419636   -27.697743
0.50000    -0.017996    1.241146     0.008416
-0.100498   -0.430068   -29.236192
0.75000    -0.017996    1.241146     0.008416
-0.100498   -0.440501   -30.774640
1.00000    -0.017996    1.241146     0.008416
-0.100498   -0.450934   -32.313089

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.692205   -68.863266     0.503869
 8.234485    3.225383   610.476489
0.25000    -0.692205   -68.863266     0.503869
 8.234485    2.600818   695.835148
0.50000    -0.692205   -68.863266     0.503869
 8.234485    1.976253   781.193807
0.75000    -0.692205   -68.863266     0.503869
 8.234485    1.351688   866.552467
1.00000    -0.692205   -68.863266     0.503869
 8.234485    0.727123   951.911126
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  191

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.692205    68.863266    -0.503869
-8.234485   -3.225383   -610.476489
0.25000     0.692205    68.863266    -0.503869
-8.234485   -2.600818   -695.835148
0.50000     0.692205    68.863266    -0.503869
-8.234485   -1.976253   -781.193807
0.75000     0.692205    68.863266    -0.503869
-8.234485   -1.351688   -866.552467
1.00000     0.692205    68.863266    -0.503869
-8.234485   -0.727123   -951.911126

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.917124    68.863266     0.503869
 8.558606    3.225383   610.476489
0.25000     0.917124    68.863266     0.503869
 8.558606    2.600818   695.835148
0.50000     0.917124    68.863266     0.503869
 8.558606    1.976253   781.193807
0.75000     0.917124    68.863266     0.503869
 8.558606    1.416983   866.552467
1.00000     0.917124    68.863266     0.503869
 8.558606    1.784847   951.911126

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.692205   -68.863266    -0.572927
-8.234485   -3.225383   -610.476489
0.25000    -0.692205   -68.863266    -0.572927
-8.234485   -2.600818   -695.835148
0.50000    -0.692205   -68.863266    -0.572927
-8.234485   -1.976253   -781.193807
0.75000    -0.692205   -68.863266    -0.572927
-8.234485   -1.985869   -866.552467
1.00000    -0.692205   -68.863266    -0.572927
-8.234485   -2.061037   -951.911126

ELEM      71 ================== LENGTH =     4.958076

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.506032   -16.390924     0.091081
-1.107533    0.088689   -25.900507
0.25000    -0.506032   -16.390924     0.091081
-1.107533   -0.024208   -5.583645
0.50000    -0.506032   -16.390924     0.091081
-1.107533   -0.137105   14.733217
0.75000    -0.506032   -16.390924     0.091081
-1.107533   -0.250001   35.050079
1.00000    -0.506032   -16.390924     0.091081
-1.107533   -0.362898   55.366941

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.908928    44.165364    -0.588259
-4.738440   -0.891704   -310.588560
0.25000     0.908928    44.165364    -0.588259
-4.738440   -0.162546   -365.332367
0.50000     0.908928    44.165364    -0.588259
-4.738440    0.566613   -420.076173
0.75000     0.908928    44.165364    -0.588259
-4.738440    1.295771   -474.819980
1.00000     0.908928    44.165364    -0.588259
-4.738440    2.024929   -529.563787

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.243772   -45.688272     0.471599
 8.411171    1.460282   804.217717
0.25000    -0.243772   -45.688272     0.471599
 8.411171    0.875726   860.849198
0.50000    -0.243772   -45.688272     0.471599
 8.411171    0.291170   917.480679
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  192

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    -0.243772   -45.688272     0.471599
 8.411171   -0.293386   974.112160
1.00000    -0.243772   -45.688272     0.471599
 8.411171   -0.877942   1030.744

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.205368   23.320062     0.053857
-3.372979   -1.546112   -608.838768
0.25000    -0.205368   23.320062     0.053857
-3.372979   -1.612869   -637.744427
0.50000    -0.205368   23.320062     0.053857
-3.372979   -1.679626   -666.650087
0.75000    -0.205368   23.320062     0.053857
-3.372979   -1.746383   -695.555746
1.00000    -0.205368   23.320062     0.053857
-3.372979   -1.813140   -724.461405

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.064529   -6.634161    -0.036050
 1.278093    1.339566   173.421776
0.25000     0.064529   -6.634161    -0.036050
 1.278093    1.384251   181.644944
0.50000     0.064529   -6.634161    -0.036050
 1.278093    1.428936   189.868113
0.75000     0.064529   -6.634161    -0.036050
 1.278093    1.473621   198.091281
1.00000     0.064529   -6.634161    -0.036050
 1.278093    1.518307   206.314450

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.018284    1.227932     0.007772
-0.470313   -0.450721   -32.311659
0.25000    -0.018284    1.227932     0.007772
-0.470313   -0.460355   -33.833704
0.50000    -0.018284    1.227932     0.007772
-0.470313   -0.469988   -35.355749
0.75000    -0.018284    1.227932     0.007772
-0.470313   -0.479622   -36.877794
1.00000    -0.018284    1.227932     0.007772
-0.470313   -0.489255   -38.399840

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.685275   -68.713358     0.526630
 8.581732    2.888537   951.738986
0.25000    -0.685275   -68.713358     0.526630
 8.581732    2.235769   1036.910
0.50000    -0.685275   -68.713358     0.526630
 8.581732    1.583001   1122.082
0.75000    -0.685275   -68.713358     0.526630
 8.581732    0.930234   1207.254
1.00000    -0.685275   -68.713358     0.526630
 8.581732    0.277466   1292.425

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.685275    68.713358    -0.526630
-8.581732   -2.888537   -951.738986
0.25000     0.685275    68.713358    -0.526630
-8.581732   -2.235769   -1036.910
0.50000     0.685275    68.713358    -0.526630
-8.581732   -1.583001   -1122.082
0.75000     0.685275    68.713358    -0.526630
-8.581732   -0.930234   -1207.254
1.00000     0.685275    68.713358    -0.526630
-8.581732   -0.277466   -1292.425

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.908928    68.713358     0.526630
 8.581732    2.888537   951.738986
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  193

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.25000     0.908928    68.713358     0.526630
 8.581732    2.235769   1036.910
0.50000     0.908928    68.713358     0.526630
 8.581732    1.583001   1122.082
0.75000     0.908928    68.713358     0.526630
 8.581732    1.473621   1207.254
1.00000     0.908928    68.713358     0.526630
 8.581732    2.024929   1292.425

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.685275   -68.713358    -0.588259
-8.581732   -2.888537   -951.738986
0.25000    -0.685275   -68.713358    -0.588259
-8.581732   -2.235769   -1036.910
0.50000    -0.685275   -68.713358    -0.588259
-8.581732   -1.679626   -1122.082
0.75000    -0.685275   -68.713358    -0.588259
-8.581732   -1.746383   -1207.254
1.00000    -0.685275   -68.713358    -0.588259
-8.581732   -1.813140   -1292.425

ELEM      72 ================== LENGTH =     4.958160

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.503041   -16.375646     0.122446
-0.920758    0.138579   55.341741
0.25000    -0.503041   -16.375646     0.122446
-0.920758   -0.013198   75.640010
0.50000    -0.503041   -16.375646     0.122446
-0.920758   -0.164974   95.938279
0.75000    -0.503041   -16.375646     0.122446
-0.920758   -0.316750   116.236548
1.00000    -0.503041   -16.375646     0.122446
-0.920758   -0.468526   136.534817

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.901247    44.141033    -0.899167
-3.197735   -0.373678   -529.400165
0.25000     0.901247    44.141033    -0.899167
-3.197735    0.740875   -584.114745
0.50000     0.901247    44.141033    -0.899167
-3.197735    1.855429   -638.829325
0.75000     0.901247    44.141033    -0.899167
-3.197735    2.969982   -693.543905
1.00000     0.901247    44.141033    -0.899167
-3.197735    4.084535   -748.258486

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.238847   -45.759485     1.009022
 5.793201    0.314573   1030.637
0.25000    -0.238847   -45.759485     1.009022
 5.793201   -0.936151   1087.358
0.50000    -0.238847   -45.759485     1.009022
 5.793201   -2.186874   1144.078
0.75000    -0.238847   -45.759485     1.009022
 5.793201   -3.437598   1200.799
1.00000    -0.238847   -45.759485     1.009022
 5.793201   -4.688321   1257.520

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.204921   23.440564    -0.227984
-2.549971   -0.893919   -724.501804
0.25000    -0.204921   23.440564    -0.227984
-2.549971   -0.611323   -753.557323
0.50000    -0.204921   23.440564    -0.227984
-2.549971   -0.328728   -782.612841
0.75000    -0.204921   23.440564    -0.227984
-2.549971   -0.046132   -811.668359
1.00000    -0.204921   23.440564    -0.227984
-2.549971    0.236464   -840.723878
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  194

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.064195   -6.660044    -0.011593
 1.862174    1.288310   206.322508
0.25000     0.064195   -6.660044    -0.011593
 1.862174    1.302679   214.575999
0.50000     0.064195   -6.660044    -0.011593
 1.862174    1.317049   222.831390
0.75000     0.064195   -6.660044    -0.011593
 1.862174    1.331419   231.086781
1.00000     0.064195   -6.660044    -0.011593
 1.862174    1.345788   239.342171

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.018632    1.213577     0.007276
-0.986912   -0.473864   -38.397266
0.25000    -0.018632    1.213577     0.007276
-0.986912   -0.482883   -39.901543
0.50000    -0.018632    1.213577     0.007276
-0.986912   -0.491902   -41.405820
0.75000    -0.018632    1.213577     0.007276
-0.986912   -0.500921   -42.910096
1.00000    -0.018632    1.213577     0.007276
-0.986912   -0.509940   -44.414373

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.677693   -68.795174     1.119875
 6.734617    1.741461   1292.299
0.25000    -0.677693   -68.795174     1.119875
 6.734617    0.353331   1377.574
0.50000    -0.677693   -68.795174     1.119875
 6.734617   -1.034799   1462.848
```

0.75000 -0.677693 -68.795174 1.119875
6.734617 -2.422929 1548.122
1.00000 -0.677693 -68.795174 1.119875
6.734617 -3.811059 1633.397

LOAD -2N+2- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.677693 68.795174 -1.119875
-6.734617 -1.741461 -1292.299
0.25000 0.677693 68.795174 -1.119875
-6.734617 -0.353331 -1377.574
0.50000 0.677693 68.795174 -1.119875
-6.734617 1.034799 -1462.848
0.75000 0.677693 68.795174 -1.119875
-6.734617 2.422929 -1548.122
1.00000 0.677693 68.795174 -1.119875
-6.734617 3.811059 -1633.397

COMB SETTLE ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.901247 68.795174 1.119875
6.734617 1.741461 1292.299
0.25000 0.901247 68.795174 1.119875
6.734617 1.302679 1377.574
0.50000 0.901247 68.795174 1.119875
6.734617 1.855429 1462.848
0.75000 0.901247 68.795174 1.119875
6.734617 2.969982 1548.122
1.00000 0.901247 68.795174 1.119875
6.734617 4.084535 1633.397

COMB SETTLE ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.677693 -68.795174 -1.119875
-6.734617 -1.741461 -1292.299
0.25000 -0.677693 -68.795174 -1.119875
-6.734617 -0.936151 -1377.574
0.50000 -0.677693 -68.795174 -1.119875
-6.734617 -2.186874 -1462.848
0.75000 -0.677693 -68.795174 -1.119875
-6.734617 -3.437598 -1548.122
1.00000 -0.677693 -68.795174 -1.119875
-6.734617 -4.688321 -1633.397
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
195

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 73 ================== LENGTH = 3.470681

LOAD -A1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.500512 -16.356622 0.191844
-0.662714 -0.003761 136.510429
0.25000 -0.500512 -16.356622 0.191844
-0.662714 -0.170218 150.702583
0.50000 -0.500512 -16.356622 0.191844
-0.662714 -0.336675 164.894737
0.75000 -0.500512 -16.356622 0.191844
-0.662714 -0.503132 179.086890
1.00000 -0.500512 -16.356622 0.191844
-0.662714 -0.669589 193.279044

LOAD -P1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.892179 43.971359 -1.674328
-0.518429 1.954587 -748.120357
0.25000 0.892179 43.971359 -1.674328
-0.518429 3.407352 -786.272995
0.50000 0.892179 43.971359 -1.674328
-0.518429 4.860117 -824.425633
0.75000 0.892179 43.971359 -1.674328
-0.518429 6.312881 -862.578270
1.00000 0.892179 43.971359 -1.674328
-0.518429 7.765646 -900.730908

LOAD -P2 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.229915 -45.561022 2.492241
0.436037 -4.127093 1257.469
0.25000 -0.229915 -45.561022 2.492241
0.436037 -6.296536 1297.001
0.50000 -0.229915 -45.561022 2.492241
0.436037 -8.451979 1336.533
0.75000 -0.229915 -45.561022 2.492241
0.436037 -10.614422 1376.064
1.00000 -0.229915 -45.561022 2.492241
0.436037 -12.776866 1415.596

LOAD -P3 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.206651 23.418787 -1.092437
-0.103452 1.674676 -840.802427
0.25000 -0.206651 23.418787 -1.092437
-0.103452 2.622551 -861.122211
0.50000 -0.206651 23.418787 -1.092437
-0.103452 3.570426 -881.441995
0.75000 -0.206651 23.418787 -1.092437
-0.103452 4.518302 -901.761778
1.00000 -0.206651 23.418787 -1.092437
-0.103452 5.466177 -922.081562

LOAD -P4 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.064002 -6.662779 0.078707
2.367250 0.977869 239.354406
0.25000 0.064002 -6.662779 0.078707
2.367250 0.909577 245.135501
0.50000 0.064002 -6.662779 0.078707
2.367250 0.841285 250.916596
0.75000 0.064002 -6.662779 0.078707
2.367250 0.772994 256.697691
1.00000 0.064002 -6.662779 0.078707
2.367250 0.704702 262.478786

LOAD -P5 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.019103 1.190278 0.003974
-1.518691 -0.476278 -44.410725
0.25000 -0.019103 1.190278 0.003974
-1.518691 -0.479726 -45.443494
0.50000 -0.019103 1.190278 0.003974
-1.518691 -0.483174 -46.476262
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
196

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.019103 1.190278 0.003974
-1.518691 -0.486622 -47.509031
1.00000 -0.019103 1.190278 0.003974
-1.518691 -0.490069 -48.541799

LOAD -2N+1- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.666424 -68.580424 2.762792
2.140573 -3.152985 1633.334
0.25000 -0.666424 -68.580424 2.762792
2.140573 -5.550177 1692.839
0.50000 -0.666424 -68.580424 2.762792
2.140573 -7.947369 1752.344
0.75000 -0.666424 -68.580424 2.762792
2.140573 -10.344561 1811.849
1.00000 -0.666424 -68.580424 2.762792
2.140573 -12.741753 1871.354

LOAD -2N+2- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.666424 68.580424 -2.762792
-2.140573 3.152985 -1633.334
0.25000 0.666424 68.580424 -2.762792
-2.140573 5.550177 -1692.839
0.50000 0.666424 68.580424 -2.762792
-2.140573 7.947369 -1752.344
0.75000 0.666424 68.580424 -2.762792
-2.140573 10.344561 -1811.849
1.00000 0.666424 68.580424 -2.762792
-2.140573 12.741753 -1871.354

COMB SETTLE ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.892179 68.580424 2.762792
2.367250 3.152985 1633.334
0.25000 0.892179 68.580424 2.762792
2.367250 5.550177 1692.839
0.50000 0.892179 68.580424 2.762792
2.367250 7.947369 1752.344
0.75000 0.892179 68.580424 2.762792
2.367250 10.344561 1811.849
1.00000 0.892179 68.580424 2.762792
2.367250 12.741753 1871.354

COMB SETTLE ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.666424 -68.580424 -2.762792
-2.140573 -4.127093 -1633.334
0.25000 -0.666424 -68.580424 -2.762792
-2.140573 -6.289536 -1692.839
0.50000 -0.666424 -68.580424 -2.762792
-2.140573 -8.451979 -1752.344
0.75000 -0.666424 -68.580424 -2.762792
-2.140573 -10.614422 -1811.849
1.00000 -0.666424 -68.580424 -2.762792
-2.140573 -12.776866 -1871.354

ELEM 74 ================== LENGTH = 3.470356

LOAD -A1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.100733 4.994702 -0.096792
-0.388801 -0.250004 193.975301
0.25000 0.100733 4.994702 -0.096792
-0.388801 -0.166029 189.641953
0.50000 0.100733 4.994702 -0.096792
-0.388801 -0.082054 185.308605
0.75000 0.100733 4.994702 -0.096792
-0.388801 0.001922 180.975257
1.00000 0.100733 4.994702 -0.096792
-0.388801 0.085897 176.641909
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
197

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.505959 -22.929230 1.115552
-0.435709 5.872391 -902.289831
0.25000 -0.505959 -22.929230 1.115552
-0.435709 4.904550 -882.396684
0.50000 -0.505959 -22.929230 1.115552
-0.435709 3.936709 -862.503537
0.75000 -0.505959 -22.929230 1.115552
-0.435709 2.968868 -842.610390
1.00000 -0.505959 -22.929230 1.115552
-0.435709 2.001027 -822.717242

LOAD -P2 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.091896 45.132949 -2.495799
-0.313827 -12.742648 1415.758
0.25000 -0.091896 45.132949 -2.495799
-0.313827 -10.577319 1376.601
0.50000 -0.091896 45.132949 -2.495799
-0.313827 -8.411991 1337.445
0.75000 -0.091896 45.132949 -2.495799
-0.313827 -6.246663 1298.288
1.00000 -0.091896 45.132949 -2.495799
-0.313827 -4.081335 1259.131

LOAD -P3 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.689451 -44.739787 1.629486
0.024995 7.338793 -921.120161
0.25000 0.689451 -44.739787 1.629486
0.024995 5.925069 -882.304415
0.50000 0.689451 -44.739787 1.629486
0.024995 4.511345 -843.488669
0.75000 0.689451 -44.739787 1.629486
0.024995 3.097621 -804.672923
1.00000 0.689451 -44.739787 1.629486
0.024995 1.683898 -765.857176

LOAD -P4 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.247519 21.599879 -0.118881
2.665500 0.224441 262.720194
0.25000 0.247519 21.599879 -0.118881
2.665500 0.327581 243.980377
0.50000 0.247519 21.599879 -0.118881
2.665500 0.430721 225.240560
0.75000 0.247519 21.599879 -0.118881
2.665500 0.533860 206.500743
1.00000 0.247519 21.599879 -0.118881
2.665500 0.637000 187.760926

LOAD -P5 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.439848 -4.058512 -0.033566
-1.552158 -0.442973 -49.043748
0.25000 -0.439848 -4.058512 -0.033566
-1.552158 -0.413852 -45.522628
0.50000 -0.439848 -4.058512 -0.033566
-1.552158 -0.384730 -42.001508
0.75000 -0.439848 -4.058512 -0.033566
-1.552158 -0.355608 -38.480387
1.00000 -0.439848 -4.058512 -0.033566
-1.552158 -0.326487 -34.959267

LOAD -2N+1- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.256355 71.727530 -2.711472
1.962871 -12.768211 1872.454
0.25000 0.256355 71.727530 -2.711472
1.962871 -10.415768 1810.224
0.50000 0.256355 71.727530 -2.711472
1.962871 -8.063325 1747.994
0.75000 0.256355 71.727530 -2.711472
1.962871 -5.710881 1685.764
1.00000 0.256355 71.727530 -2.711472
1.962871 -3.358438 1623.534
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
198

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.256355 -71.727530 2.711472
-1.962871 12.768211 -1872.454
0.25000 -0.256355 -71.727530 2.711472
-1.962871 10.415768 -1810.224
0.50000 -0.256355 -71.727530 2.711472
-1.962871 8.063325 -1747.994
0.75000 -0.256355 -71.727530 2.711472
-1.962871 5.710881 -1685.764
1.00000 -0.256355 -71.727530 2.711472
-1.962871 3.358438 -1623.534

COMB SETTLE ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.689451 71.727530 2.711472
2.665500 12.768211 1872.454
0.25000 0.689451 71.727530 2.711472
2.665500 10.415768 1810.224
0.50000 0.689451 71.727530 2.711472
2.665500 8.063325 1747.994
0.75000 0.689451 71.727530 2.711472
2.665500 5.710881 1685.764
1.00000 0.689451 71.727530 2.711472
2.665500 3.358438 1623.534

COMB SETTLE ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.505959 -71.727530 -2.711472
-1.962871 -12.768211 -1872.454
0.25000 -0.505959 -71.727530 -2.711472
-1.962871 -10.577319 -1810.224
0.50000 -0.505959 -71.727530 -2.711472
-1.962871 -8.411991 -1747.994
0.75000 -0.505959 -71.727530 -2.711472
-1.962871 -6.246663 -1685.764
1.00000 -0.505959 -71.727530 -2.711472
-1.962871 -4.081335 -1623.534

ELEM 75 ================== LENGTH = 4.957381

LOAD -A1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.101529 4.951571 -0.006435
-0.610371 0.412026 176.624819
0.25000 0.101529 4.951571 -0.006435
-0.610371 0.420001 170.488113
0.50000 0.101529 4.951571 -0.006435
-0.610371 0.427977 164.351408
0.75000 0.101529 4.951571 -0.006435
-0.610371 0.435953 158.214703
1.00000 0.101529 4.951571 -0.006435
-0.610371 0.443928 152.077997

LOAD -P1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.504569 -22.943168 0.236807
2.367769 0.537402 -822.635466
0.25000 -0.504569 -22.943168 0.236807
2.367769 0.243916 -794.200961
0.50000 -0.504569 -22.943168 0.236807
2.367769 -0.049570 -765.766456
0.75000 -0.504569 -22.943168 0.236807
2.367769 -0.343055 -737.331951
1.00000 -0.504569 -22.943168 0.236807
2.367769 -0.636541 -708.897445

LOAD -P2 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.099797 45.309337 -1.014782
-5.985908 -4.577760 1259.178
0.25000 -0.099797 45.309337 -1.014782
-5.985908 -3.320095 1203.024
0.50000 -0.099797 45.309337 -1.014782
-5.985908 -2.062429 1146.870
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
199

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.099797 45.309337 -1.014782
-5.985908 -0.804763 1090.716
1.00000 -0.099797 45.309337 -1.014782
-5.985908 0.452903 1034.562

LOAD -P3 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.696890 -44.854057 0.872075
2.932169 3.800483 -765.992477
0.25000 0.696890 -44.854057 0.872075
2.932169 2.719681 -710.402816
0.50000 0.696890 -44.854057 0.872075
2.932169 1.638879 -654.813155
0.75000 0.696890 -44.854057 0.872075
2.932169 0.558078 -599.223494
1.00000 0.696890 -44.854057 0.872075
2.932169 -0.522724 -543.633833

LOAD -P4 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.246943 21.566987 -0.054775
2.494526 0.099117 187.782300
0.25000 0.246943 21.566987 -0.054775
2.494526 0.167002 161.053358
0.50000 0.246943 21.566987 -0.054775
2.494526 0.234887 134.324415
0.75000 0.246943 21.566987 -0.054775
2.494526 0.302772 107.595472
1.00000 0.246943 21.566987 -0.054775
2.494526 0.370657 80.866529

LOAD -P5 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.440998 -4.030670 -0.032889
-1.198185 -0.271267 -34.956764
0.25000 -0.440998 -4.030670 -0.032889
-1.198185 -0.230506 -29.961372
0.50000 -0.440998 -4.030670 -0.032889
-1.198185 -0.189745 -24.965981
0.75000 -0.440998 -4.030670 -0.032889
-1.198185 -0.148984 -19.970590
1.00000 -0.440998 -4.030670 -0.032889
-1.198185 -0.108223 -14.975198

LOAD -2N+1- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.248676 71.827895 -1.075993
-4.101753 -4.066617 1623.585
0.25000 0.248676 71.827895 -1.075993
-4.101753 -2.733091 1534.565
0.50000 0.248676 71.827895 -1.075993
-4.101753 -1.399565 1445.546
0.75000 0.248676 71.827895 -1.075993
-4.101753 -0.066038 1356.526
1.00000 0.248676 71.827895 -1.075993
-4.101753 1.267488 1267.506

LOAD -2N+2- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.248676 -71.827895 1.075993
4.101753 4.066617 -1623.585
0.25000 -0.248676 -71.827895 1.075993
4.101753 2.733091 -1534.565
0.50000 -0.248676 -71.827895 1.075993
4.101753 1.399565 -1445.546
0.75000 -0.248676 -71.827895 1.075993
4.101753 0.066038 -1356.526
1.00000 -0.248676 -71.827895 1.075993
4.101753 -1.267488 -1267.506

COMB SETTLE ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.696890 71.827895 1.075993
4.101753 4.066617 1623.585
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
200

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 0.696890 71.827895 1.075993
4.101753 2.733091 1534.565
0.50000 0.696890 71.827895 1.075993
4.101753 1.638879 1445.546
0.75000 0.696890 71.827895 1.075993
4.101753 0.558078 1356.526
1.00000 0.696890 71.827895 1.075993
4.101753 1.267488 1267.506

COMB SETTLE ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.504569 -71.827895 -1.075993
-5.985908 -4.577760 -1623.585
0.25000 -0.504569 -71.827895 -1.075993
-5.985908 -3.320095 -1534.565
0.50000 -0.504569 -71.827895 -1.075993
-5.985908 -2.062429 -1445.546
0.75000 -0.504569 -71.827895 -1.075993
-5.985908 -0.804763 -1356.526
1.00000 -0.504569 -71.827895 -1.075993
-5.985908 -1.267488 -1267.506

ELEM 76 ================== LENGTH = 4.957854

LOAD -A1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.102586 4.900308 0.018191
-0.660024 0.657669 152.068306
0.25000 0.102586 4.900308 0.018191
-0.660024 0.635122 145.994553
0.50000 0.102586 4.900308 0.018191
-0.660024 0.612575 139.920800
0.75000 0.102586 4.900308 0.018191
-0.660024 0.590027 133.847048
1.00000 0.102586 4.900308 0.018191
-0.660024 0.567480 127.773295

LOAD -P1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.506221 -22.816969 -0.045988
3.233501 -1.587612 -708.854211
0.25000 -0.506221 -22.816969 -0.045988
3.233501 -1.505812 -680.574513
0.50000 -0.506221 -22.816969 -0.045988
3.233501 -1.473611 -652.292614
0.75000 -0.506221 -22.816969 -0.045988
3.233501 -1.416611 -624.011815
1.00000 -0.506221 -22.816969 -0.045988
3.233501 -1.359610 -595.731017

LOAD -P2 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.105160 45.230670 -0.476411
-8.447650 -0.678539 1031.666
0.25000 -0.105160 45.230670 -0.476411
-8.447650 -0.088044 978.604120
0.50000 -0.105160 45.230670 -0.476411
-8.447650 0.502450 922.542359
0.75000 -0.105160 45.230670 -0.476411
-8.447650 1.092945 866.480599
1.00000 -0.105160 45.230670 -0.476411
-8.447650 1.683439 810.418838

LOAD -P3 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.705064 -44.847170 0.559342
4.428365 1.870071 -543.795839
0.25000 0.705064 -44.847170 0.559342
4.428365 1.176787 -488.209412
0.50000 0.705064 -44.847170 0.559342
4.428365 0.483503 -432.622985
0.75000 0.705064 -44.847170 0.559342
4.428365 -0.209781 -377.036558
1.00000 0.705064 -44.847170 0.559342
4.428365 -0.903065 -321.450131
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
201

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.246408 21.539846 -0.020639
2.268807 -0.212879 80.889499
0.25000 0.246408 21.539846 -0.020639
2.268807 -0.187298 54.191548
0.50000 0.246408 21.539846 -0.020639
2.268807 -0.161716 27.493797
0.75000 0.246408 21.539846 -0.020639
2.268807 -0.136135 0.795946
1.00000 0.246408 21.539846 -0.020639
2.268807 -0.110553 -25.901904

LOAD -P5 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.442678 -4.006684 -0.034494
-0.822999 -0.048710 -14.973635
0.25000 -0.442678 -4.006684 -0.034494
-0.822999 -0.005955 -10.007496
0.50000 -0.442678 -4.006684 -0.034494
-0.822999 0.036799 -5.041358
0.75000 -0.442678 -4.006684 -0.034494
-0.822999 0.079554 -0.075219
1.00000 -0.442678 -4.006684 -0.034494

```
-0.822999     0.122308     4.890919

LOAD   -2N+1- --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.243835    71.670824    -0.478860
-6.838868    -0.233749     1267.624
0.25000     0.243835    71.670824    -0.478860
-6.838868     0.359780     1178.790
0.50000     0.243835    71.670824    -0.478860
-6.838868     0.953309     1089.957
0.75000     0.243835    71.670824    -0.478860
-6.838868     1.546838     1001.124
1.00000     0.243835    71.670824    -0.478860
-6.838868     2.140367     912.290229

LOAD   -2N+2- --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.243835   -71.670824     0.478860
 6.838868     0.233749    -1267.624
0.25000    -0.243835   -71.670824     0.478860
 6.838868    -0.359780    -1178.790
0.50000    -0.243835   -71.670824     0.478860
 6.838868    -0.953309    -1089.957
0.75000    -0.243835   -71.670824     0.478860
 6.838868    -1.546838    -1001.124
1.00000    -0.243835   -71.670824     0.478860
 6.838868    -2.140367   -912.290229

COMB   SETTLE -------------------- MAX

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.705064    71.670824     0.559342
 6.838868     1.870071     1267.624
0.25000     0.705064    71.670824     0.559342
 6.838868     1.176787     1178.790
0.50000     0.705064    71.670824     0.559342
 6.838868     0.953309     1089.957
0.75000     0.705064    71.670824     0.559342
 6.838868     1.546838     1001.124
1.00000     0.705064    71.670824     0.559342
 6.838868     2.140367     912.290229

COMB   SETTLE -------------------- MIN

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.506221   -71.670824    -0.478860
-8.447650    -1.587612    -1267.624
0.25000    -0.506221   -71.670824    -0.478860
-8.447650    -1.530612    -1178.790
0.50000    -0.506221   -71.670824    -0.478860
-8.447650    -1.473611    -1089.957
0.75000    -0.506221   -71.670824    -0.478860
-8.447650    -1.546838    -1001.124
1.00000    -0.506221   -71.670824    -0.478860
-8.447650    -2.140367   -912.290229
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<             UNEQUAL          SETTLEMENT          >
                                      202

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM       77 ================== LENGTH =     4.958453

LOAD      -A1 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.103771     4.917119     0.016702
-0.503482     0.693780    127.768625
0.25000     0.103771     4.917119     0.016702
-0.503482     0.673076    121.673299
0.50000     0.103771     4.917119     0.016702
-0.503482     0.652372    115.577974
0.75000     0.103771     4.917119     0.016702
-0.503482     0.631667    109.482648
1.00000     0.103771     4.917119     0.016702
-0.503482     0.610963    103.387322

LOAD      -P1 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.509568   -22.930166    -0.053370
 2.686273    -1.913658   -595.712596
0.25000    -0.509568   -22.930166    -0.053370
 2.686273    -1.847499   -567.288060
0.50000    -0.509568   -22.930166    -0.053370
 2.686273    -1.781341   -538.863524
0.75000    -0.509568   -22.930166    -0.053370
 2.686273    -1.715183   -510.438988
1.00000    -0.509568   -22.930166    -0.053370
 2.686273    -1.649024   -482.014452

LOAD      -P2 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.108813    45.403944    -0.451361
-8.468046    -0.021536    810.563712
0.25000    -0.108813    45.403944    -0.451361
-8.468046     0.537977    754.280385
0.50000    -0.108813    45.403944    -0.451361
-8.468046     1.097489    697.997058
0.75000    -0.108813    45.403944    -0.451361
-8.468046     1.657002    641.713731
1.00000    -0.108813    45.403944    -0.451361
-8.468046     2.216514    585.430404

LOAD      -P3 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.713456   -44.898059     0.540942
 5.021701     1.774739   -321.634632
0.25000     0.713456   -44.898059     0.540942
 5.021701     1.104180   -265.978407
0.50000     0.713456   -44.898059     0.540942
 5.021701     0.433621   -210.322182
0.75000     0.713456   -44.898059     0.540942
 5.021701    -0.236937   -154.665956
1.00000     0.713456   -44.898059     0.540942
 5.021701    -0.907496    -99.009731

LOAD      -P4 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.246237    21.498089    -0.017854
 1.783272    -0.712835    -25.876007
0.25000     0.246237    21.498089    -0.017854
 1.783272    -0.690702    -52.525321
0.50000     0.246237    21.498089    -0.017854
 1.783272    -0.668570    -79.174636
0.75000     0.246237    21.498089    -0.017854
 1.783272    -0.646437   -105.823951
1.00000     0.246237    21.498089    -0.017854
 1.783272    -0.624305   -132.473266

LOAD      -P5 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.445082   -3.990928    -0.035059
-0.519718     0.179509     4.890897
0.25000    -0.445082   -3.990928    -0.035059
-0.519718     0.222969     9.838104
0.50000    -0.445082   -3.990928    -0.035059
-0.519718     0.266429    14.785310
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<             UNEQUAL          SETTLEMENT          >
                                      203

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST            P            V2           V3
       T            M2           M3
0.75000    -0.445082   -3.990928    -0.035059
-0.519718     0.309888    19.732517
1.00000    -0.445082   -3.990928    -0.035059
-0.519718     0.353348    24.679723

LOAD   -2N+1- --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.241195    71.819153    -0.452513
-7.188256    -0.040590    912.456330
0.25000     0.241195    71.819153    -0.452513
-7.188256     0.520350    823.428363
0.50000     0.241195    71.819153    -0.452513
-7.188256     1.081291    734.400395
0.75000     0.241195    71.819153    -0.452513
-7.188256     1.642232    645.372427
1.00000     0.241195    71.819153    -0.452513
-7.188256     2.203172    556.344459

LOAD   -2N+2- --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.241195   -71.819153     0.452513
 7.188256     0.040590   -912.456330
0.25000    -0.241195   -71.819153     0.452513
 7.188256    -0.520350   -823.428363
0.50000    -0.241195   -71.819153     0.452513
 7.188256    -1.081291   -734.400395
0.75000    -0.241195   -71.819153     0.452513
 7.188256    -1.642232   -645.372427
1.00000    -0.241195   -71.819153     0.452513
 7.188256    -2.203172   -556.344459

COMB   SETTLE -------------------- MAX

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.713456    71.819153     0.540942
 7.188256     1.774739    912.456330
0.25000     0.713456    71.819153     0.540942
 7.188256     1.104180    823.428363
0.50000     0.713456    71.819153     0.540942
 7.188256     1.097489    734.400395
0.75000     0.713456    71.819153     0.540942
 7.188256     1.657002    645.372427
1.00000     0.713456    71.819153     0.540942
 7.188256     2.216514    585.430404

COMB   SETTLE -------------------- MIN

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.509568   -71.819153    -0.452513
-8.468046    -1.913658   -912.456330
0.25000    -0.509568   -71.819153    -0.452513
-8.468046    -1.847499   -823.428363
0.50000    -0.509568   -71.819153    -0.452513
-8.468046    -1.781341   -734.400395
0.75000    -0.509568   -71.819153    -0.452513
-8.468046    -1.715183   -645.372427
1.00000    -0.509568   -71.819153    -0.452513
-8.468046    -2.203172   -556.344459

ELEM       78 ================== LENGTH =     4.958178

LOAD      -A1 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.105027     4.881907     0.010298
-0.221134     0.654306    103.386572
0.25000     0.105027     4.881907     0.010298
-0.221134     0.641542     97.335231
0.50000     0.105027     4.881907     0.010298
-0.221134     0.628777     91.283890
0.75000     0.105027     4.881907     0.010298
-0.221134     0.616013     85.232549
1.00000     0.105027     4.881907     0.010298
-0.221134     0.603249     79.181208
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<             UNEQUAL          SETTLEMENT          >
                                      204

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P1 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.513589   -22.767148    -0.001269
 1.384724    -1.822523   -482.014423
0.25000    -0.513589   -22.767148    -0.001269
 1.384724    -1.820951   -453.793530
0.50000    -0.513589   -22.767148    -0.001269
 1.384724    -1.819379   -425.572637
0.75000    -0.513589   -22.767148    -0.001269
 1.384724    -1.817806   -397.351744
1.00000    -0.513589   -22.767148    -0.001269
 1.384724    -1.816234   -369.130851

LOAD      -P2 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.111821   -45.185997    -0.545378
-7.305999     0.020347    585.602201
0.25000    -0.111821   -45.185997    -0.545378
-7.305999     0.696367    529.592148
0.50000    -0.111821   -45.185997    -0.545378
-7.305999     1.372387    473.582096
0.75000    -0.111821   -45.185997    -0.545378
-7.305999     2.048407    417.572043
1.00000    -0.111821   -45.185997    -0.545378
-7.305999     2.724427    361.561991

LOAD      -P3 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.722057   -44.812301     0.593796
 5.422207     1.921934    -99.206012
0.25000     0.722057   -44.812301     0.593796
 5.422207     1.185897    -43.659172
0.50000     0.722057   -44.812301     0.593796
 5.422207     0.449860     11.887668
0.75000     0.722057   -44.812301     0.593796
 5.422207    -0.286176     67.434507
1.00000     0.722057   -44.812301     0.593796
 5.422207    -1.022213    122.981347

LOAD      -P4 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.246641    21.501531    -0.021955
 0.975259    -1.168300   -132.447546
0.25000     0.246641    21.501531    -0.021955
 0.975259    -1.141085   -159.099649
0.50000     0.246641    21.501531    -0.021955
 0.975259    -1.113871   -185.751753
0.75000     0.246641    21.501531    -0.021955
 0.975259    -1.086656   -212.403856
1.00000     0.246641    21.501531    -0.021955
 0.975259    -1.059441   -239.055959

LOAD      -P5 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.448314   -3.989985    -0.035492
-0.255058     0.394235     34.679207
0.25000    -0.448314   -3.989985    -0.035492
-0.255058     0.438230     29.624972
0.50000    -0.448314   -3.989985    -0.035492
-0.255058     0.482224     34.570736
0.75000    -0.448314   -3.989985    -0.035492
-0.255058     0.526218     39.516500
1.00000    -0.448314   -3.989985    -0.035492
-0.255058     0.570213     44.462265

LOAD   -2N+1- --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.239846    71.569434    -0.557035
-6.551874    -0.493646    556.541227
0.25000     0.239846    71.569434    -0.557035
-6.551874     0.196824    467.827730
0.50000     0.239846    71.569434    -0.557035
-6.551874     0.887294    379.114234
0.75000     0.239846    71.569434    -0.557035
-6.551874     1.577764    290.400737
1.00000     0.239846    71.569434    -0.557035
-6.551874     2.268234    201.687240
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<             UNEQUAL          SETTLEMENT          >
                                      205

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.239846   -71.569434     0.557035
 6.551874     0.493646    556.541227
0.25000    -0.239846   -71.569434     0.557035
 6.551874    -0.196824    467.827730
0.50000    -0.239846   -71.569434     0.557035
 6.551874    -0.887294    379.114234
0.75000    -0.239846   -71.569434     0.557035
 6.551874    -1.577764    290.400737
1.00000    -0.239846   -71.569434     0.557035
 6.551874    -2.268234    201.687240

COMB   SETTLE -------------------- MAX

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.722057    71.569434     0.593796
 6.551874     1.921934     585.602201
0.25000     0.722057    71.569434     0.593796
 6.551874     1.185897     529.592148
0.50000     0.722057    71.569434     0.593796
 6.551874     1.372387     473.582096
0.75000     0.722057    71.569434     0.593796
 6.551874     2.048407     417.572043
1.00000     0.722057    71.569434     0.593796
 6.551874     2.724427     361.561991

COMB   SETTLE -------------------- MIN

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.513589   -71.569434    -0.557035
-7.305999    -1.822523    -556.541227
0.25000    -0.513589   -71.569434    -0.557035
-7.305999    -1.820951    -467.827730
0.50000    -0.513589   -71.569434    -0.557035
-7.305999    -1.819379    -425.572637
0.75000    -0.513589   -71.569434    -0.557035
-7.305999    -1.817806    -397.351744
1.00000    -0.513589   -71.569434    -0.557035
-7.305999    -2.268234    -369.130851

ELEM       79 ================== LENGTH =     4.957033

LOAD      -A1 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.106410     4.883793     0.006694
0.052385     0.572006    79.183492
0.25000     0.106410     4.883793     0.006694
0.052385     0.563711    73.131211
0.50000     0.106410     4.883793     0.006694
0.052385     0.555415    67.078930
0.75000     0.106410     4.883793     0.006694
0.052385     0.547119    61.026650
1.00000     0.106410     4.883793     0.006694
0.052385     0.538824    54.974369

LOAD      -P1 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.518329   -22.770848     0.029930
 0.074425    -1.645438    -369.144636
0.25000    -0.518329   -22.770848     0.029930
 0.074425    -1.682529    -340.925677
0.50000    -0.518329   -22.770848     0.029930
 0.074425    -1.719619    -312.706717
0.75000    -0.518329   -22.770848     0.029930
 0.074425    -1.756710    -284.487758
1.00000    -0.518329   -22.770848     0.029930
 0.074425    -1.793800    -256.268798

LOAD      -P2 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.115500   45.191559     -0.604982
-6.238979     0.145439    361.749590
0.25000    -0.115500   45.191559     -0.604982
-6.238979     0.895168    305.745582
0.50000    -0.115500   45.191559     -0.604982
-6.238979     1.644897    249.741573
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<             UNEQUAL          SETTLEMENT          >
                                      206

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST            P            V2           V3
       T            M2           M3
0.75000    -0.115500   45.191559     -0.604982
-6.238979     2.394626    193.737565
1.00000    -0.115500   45.191559     -0.604982
-6.238979     3.144355    137.733557

LOAD      -P3 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.732395   -44.819178     0.621917
 6.181721     1.802898    122.783672
0.25000     0.732395   -44.819178     0.621917
 6.181721     1.032182    178.326205
0.50000     0.732395   -44.819178     0.621917
 6.181721     0.261466    233.868738
0.75000     0.732395   -44.819178     0.621917
 6.181721    -0.509250    289.411271
1.00000     0.732395   -44.819178     0.621917
 6.181721    -1.279965    344.953804

LOAD      -P4 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.247418    21.505523    -0.016118
-0.064641    -1.452885   -239.034547
0.25000     0.247418    21.505523    -0.016118
-0.064641    -1.432910   -265.685442
0.50000     0.247418    21.505523    -0.016118
-0.064641    -1.412935   -292.336337
0.75000     0.247418    21.505523    -0.016118
-0.064641    -1.392961   -318.987233
1.00000     0.247418    21.505523    -0.016118
-0.064641    -1.372986   -345.638128

LOAD      -P5 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.452395   -3.990849    -0.037440
-0.004911     0.577980     44.462430
0.25000    -0.452395   -3.990849    -0.037440
-0.004911     0.624378     49.408121
0.50000    -0.452395   -3.990849    -0.037440
-0.004911     0.670777     54.353813
0.75000    -0.452395   -3.990849    -0.037440
-0.004911     0.717175     59.299505
1.00000    -0.452395   -3.990849    -0.037440
-0.004911     0.763573     64.245196

LOAD   -2N+1- --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.238328    71.580875    -0.614406
-6.251235    -0.735440    201.898535
0.25000     0.238328    71.580875    -0.614406
-6.251235     0.025968    113.191351
0.50000     0.238328    71.580875    -0.614406
-6.251235     0.787376     24.484166
0.75000     0.238328    71.580875    -0.614406
-6.251235     1.548784    -64.223018
1.00000     0.238328    71.580875    -0.614406
-6.251235     2.310193   -152.930202

LOAD   -2N+2- --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.238328   -71.580875     0.614406
 6.251235     0.735440    201.898535
0.25000    -0.238328   -71.580875     0.614406
 6.251235    -0.025968   -113.191351
0.50000    -0.238328   -71.580875     0.614406
 6.251235    -0.787376    -24.484166
0.75000    -0.238328   -71.580875     0.614406
 6.251235    -1.548784     64.223018
1.00000    -0.238328   -71.580875     0.614406
 6.251235    -2.310193    152.930202

COMB   SETTLE -------------------- MAX

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.732395    71.580875     0.621917
 6.251235     1.802898     361.749590
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<             UNEQUAL          SETTLEMENT          >
                                      207

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST            P            V2           V3
       T            M2           M3
0.25000     0.732395    71.580875     0.621917
 6.251235     1.032182     305.745582
0.50000     0.732395    71.580875     0.621917
 6.251235     1.604897     249.741573
0.75000     0.732395    71.580875     0.621917
 6.251235     2.394626     289.411271
1.00000     0.732395    71.580875     0.621917
 6.251235     3.144355     344.953804

COMB   SETTLE -------------------- MIN

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.518329   -71.580875    -0.614406
-6.251235    -1.645438    -369.144636
0.25000    -0.518329   -71.580875    -0.614406
-6.251235    -1.682529    -340.925677
0.50000    -0.518329   -71.580875    -0.614406
-6.251235    -1.719619    -312.706717
0.75000    -0.518329   -71.580875    -0.614406
-6.251235    -1.756710    -318.987233
1.00000    -0.518329   -71.580875    -0.614406
-6.251235    -2.310193    -345.638128

ELEM       80 ================== LENGTH =     4.958005

LOAD      -A1 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.107967     4.883049     0.006454
0.289555     0.452861    54.978669
0.25000     0.107967     4.883049     0.006454
0.289555     0.444861    48.926123
0.50000     0.107967     4.883049     0.006454
0.289555     0.436861    42.873577
0.75000     0.107967     4.883049     0.006454
0.289555     0.428861    36.821031
1.00000     0.107967     4.883049     0.006454
0.289555     0.420862    30.768486

LOAD      -P1 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.523943   -22.764003     0.034129
-1.077508    -1.370234    -256.291699
0.25000    -0.523943   -22.764003     0.034129
-1.077508    -1.412536    -228.075690
0.50000    -0.523943   -22.764003     0.034129
-1.077508    -1.454839    -199.859680
0.75000    -0.523943   -22.764003     0.034129
-1.077508    -1.497142    -171.643671
1.00000    -0.523943   -22.764003     0.034129
-1.077508    -1.539445    -143.427661

LOAD      -P2 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000    -0.119426   45.182971     -0.583867
-5.385929     0.367731    137.929540
0.25000    -0.119426   45.182971     -0.583867
-5.385929     1.013435     81.925191
0.50000    -0.119426   45.182971     -0.583867
-5.385929     1.815139     25.920842
0.75000    -0.119426   45.182971     -0.583867
-5.385929     2.538844    -30.083506
1.00000    -0.119426   45.182971     -0.583867
-5.385929     3.262548    -86.087855

LOAD      -P3 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.744032   -44.820042     0.569973
 7.243214     1.354821    344.761822
0.25000     0.744032   -44.820042     0.569973
 7.243214     0.648339    400.316319
0.50000     0.744032   -44.820042     0.569973
 7.243214    -0.058143    455.870816
0.75000     0.744032   -44.820042     0.569973
 7.243214    -0.764625    511.425313
1.00000     0.744032   -44.820042     0.569973
 7.243214    -1.471107    566.979810
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<             UNEQUAL          SETTLEMENT          >
                                      208

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P4 --------------------

REL DIST            P            V2           V3
       T            M2           M3
0.00000     0.248737    21.509717     0.016227
-1.353657    -1.527043    -345.625332
0.25000     0.248737    21.509717     0.016227
-1.353657    -1.547157    -372.286653
0.50000     0.248737    21.509717     0.016227
-1.353657    -1.567271    -398.947973
0.75000     0.248737    21.509717     0.016227
-1.353657    -1.587385    -425.609294
1.00000     0.248737    21.509717     0.016227
-1.353657    -1.607499    -452.270614

LOAD      -P5 --------------------
```

```
REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.457367   -3.991693   -0.042916
0.284327    0.721864    64.217001
0.25000   -0.457367   -3.991693   -0.042916
0.284327    0.775058    69.194709
0.50000   -0.457367   -3.991693   -0.042916
0.284327    0.828252    74.142418
0.75000   -0.457367   -3.991693   -0.042916
0.284327    0.881447    79.090126
1.00000   -0.457367   -3.991693   -0.042916
0.284327    0.934641    84.037835

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.237278   71.575738   -0.561186
-6.450032   -0.706451  -152.717124
0.25000    0.237278   71.575738   -0.561186
-6.450032   -0.010860  -241.435339
0.50000    0.237278   71.575738   -0.561186
-6.450032    0.684730  -330.153554
0.75000    0.237278   71.575738   -0.561186
-6.450032    1.380320  -418.871769
1.00000    0.237278   71.575738   -0.561186
-6.450032    2.075911  -507.589984

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.237278   -71.575738    0.561186
 6.450032    0.706451    152.717124
0.25000   -0.237278   -71.575738    0.561186
 6.450032    0.010860    241.435339
0.50000   -0.237278   -71.575738    0.561186
 6.450032   -0.684730   -330.153554
0.75000   -0.237278   -71.575738    0.561186
 6.450032   -1.380320   418.871769
1.00000   -0.237278   -71.575738    0.561186
 6.450032   -2.075911   507.589984

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.744032   71.575738    0.569973
 7.243214    1.354821   344.761822
0.25000    0.744032   71.575738    0.569973
 7.243214    1.091435   400.316319
0.50000    0.744032   71.575738    0.569973
 7.243214    1.815139   455.870816
0.75000    0.744032   71.575738    0.569973
 7.243214    2.538844   511.425313
1.00000    0.744032   71.575738    0.569973
 7.243214    3.262548   566.979810

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.523943   -71.575738   -0.583867
-6.450032   -1.527043   -345.625332
0.25000   -0.523943   -71.575738   -0.583867
-6.450032   -1.547157   -372.286653
0.50000   -0.523943   -71.575738   -0.583867
-6.450032   -1.567271   -398.947973
0.75000   -0.523943   -71.575738   -0.583867
-6.450032   -1.587385   -425.609294
1.00000   -0.523943   -71.575738   -0.583867
-6.450032   -1.607511   -507.589984
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          209

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       81 ========== LENGTH
=     4.958103

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.109718    4.882796    0.007855
0.464035    0.300490   30.773811
0.25000    0.109718    4.882796    0.007855
0.464035    0.207554   24.721459
0.50000    0.109718    4.882796    0.007855
0.464035    0.281018   18.669107
0.75000    0.109718    4.882796    0.007855
0.464035    0.271282   12.616756
1.00000    0.109718    4.882796    0.007855
0.464035    0.261546    6.564404

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.530547   -22.761338    0.025561
-1.929311   -1.957645   -143.455000
0.25000   -0.530547   -22.761338    0.025561
-1.929311   -0.989329   -115.241734
0.50000   -0.530547   -22.761338    0.025561
-1.929311   -1.021013    -87.028468
0.75000   -0.530547   -22.761338    0.025561
-1.929311   -1.052697    -58.815203
1.00000   -0.530547   -22.761338    0.025561
-1.929311   -1.084381    -30.601937

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.123436   45.268145   -0.528702
-4.918356    0.477396   -85.894699
0.25000   -0.123436   45.268145   -0.528702
-4.918356    1.132736   -142.005733
0.50000   -0.123436   45.268145   -0.528702
-4.918356    1.788075   -198.116768
0.75000   -0.123436   45.268145   -0.528702
-4.918356    2.443415   -254.227802
1.00000   -0.123436   45.268145   -0.528702
-4.918356    3.098755   -310.338836

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.756852   -45.022459    0.479354
 8.348517    0.787836   566.804922
0.25000    0.756852   -45.022459    0.479354
 8.348517    0.193664   622.611423
0.50000    0.756852   -45.022459    0.479354
 8.348517   -0.400507   678.417924
0.75000    0.756852   -45.022459    0.479354
 8.348517   -0.994678   734.224424
1.00000    0.756852   -45.022459    0.479354
 8.348517   -1.588850   790.030925

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.250663   21.650965    0.067486
-2.570795   -1.436001   -452.271031
0.25000    0.250663   21.650965    0.067486
-2.570795   -1.519652   -479.107961
0.50000    0.250663   21.650965    0.067486
-2.570795   -1.603303   -505.944890
0.75000    0.250663   21.650965    0.067486
-2.570795   -1.686954   -532.781820
1.00000    0.250663   21.650965    0.067486
-2.570795   -1.770605   -559.618750

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.463249   -4.018109   -0.051554
 0.605910    0.827925    84.041997
0.25000   -0.463249   -4.018109   -0.051554
 0.605910    0.891828    89.022546
0.50000   -0.463249   -4.018109   -0.051554
 0.605910    0.955730    94.003095
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          210

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.75000   -0.463249   -4.018109   -0.051554
 0.605910    1.019633    98.983645
1.00000   -0.463249   -4.018109   -0.051554
 0.605910    1.083535   103.964194

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.236945   71.801906   -0.453361
-7.025115   -0.658116  -507.391919
0.25000    0.236945   71.801906   -0.453361
-7.025115   -0.096163  -596.392235
0.50000    0.236945   71.801906   -0.453361
-7.025115    0.465790  -685.392551
0.75000    0.236945   71.801906   -0.453361
-7.025115    1.027743  -774.392866
1.00000    0.236945   71.801906   -0.453361
-7.025115    1.589696  -863.393182

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.236945   -71.801906    0.453361
 7.025115    0.658116   507.391919
0.25000   -0.236945   -71.801906    0.453361
 7.025115    0.096163   596.392235
0.50000   -0.236945   -71.801906    0.453361
 7.025115   -0.465790   685.392551
0.75000   -0.236945   -71.801906    0.453361
 7.025115   -1.027743   774.392866
1.00000   -0.236945   -71.801906    0.453361
 7.025115   -1.589696   863.393182

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.756852   71.801906    0.479354
 8.348517    0.827925   566.804922
0.25000    0.756852   71.801906    0.479354
 8.348517    1.132736   622.611423
0.50000    0.756852   71.801906    0.479354
 8.348517    1.788075   678.417924
0.75000    0.756852   71.801906    0.479354
 8.348517    2.443415   734.392866
1.00000    0.756852   71.801906    0.479354
 8.348517    3.098755   863.393182

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.530547   -71.801906   -0.528702
-7.025115   -1.436001   -507.391919
0.25000   -0.530547   -71.801906   -0.528702
-7.025115   -1.519652   -596.392235
0.50000   -0.530547   -71.801906   -0.528702
-7.025115   -1.603303   -685.392551
0.75000   -0.530547   -71.801906   -0.528702
-7.025115   -1.686954   -774.392866
1.00000   -0.530547   -71.801906   -0.528702
-7.025115   -1.770605   -863.393182

ELEM       82 ========== LENGTH
=     4.958328

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.111666    4.892270    0.007166
0.562862    0.127855    6.569839
0.25000    0.111666    4.892270    0.007166
0.562862    0.118972    0.505470
0.50000    0.111666    4.892270    0.007166
0.562862    0.110090   -5.558899
0.75000    0.111666    4.892270    0.007166
0.562862    0.101207   -11.623268
1.00000    0.111666    4.892270    0.007166
0.562862    0.092324   -17.687637
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          211

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.538162   -22.805170    0.027095
-2.426636   -0.443033   -30.629444
0.25000   -0.538162   -22.805170    0.027095
-2.426636   -0.476619   -2.360567
0.50000   -0.538162   -22.805170    0.027095
-2.426636   -0.510205    25.908309
0.75000   -0.538162   -22.805170    0.027095
-2.426636   -0.543791    54.177186
1.00000   -0.538162   -22.805170    0.027095
-2.426636   -0.577377    82.446063

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.127696   45.240167   -0.548380
-4.264294    0.465302   -310.157749
0.25000   -0.127696   45.240167   -0.548380
-4.264294    1.145064   -366.236643
0.50000   -0.127696   45.240167   -0.548380
-4.264294    1.824825   -422.315536
0.75000   -0.127696   45.240167   -0.548380
-4.264294    2.504587   -478.394429
1.00000   -0.127696   45.240167   -0.548380
-4.264294    3.184348   -534.473322

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.771217   -44.850505    0.505165
 8.306542    0.184183   789.882802
0.25000    0.771217   -44.850505    0.505165
 8.306542   -0.442011   845.478676
0.50000    0.771217   -44.850505    0.505165
 8.306542   -1.068205   901.074551
0.75000    0.771217   -44.850505    0.505165
 8.306542   -1.694399   956.670426
1.00000    0.771217   -44.850505    0.505165
 8.306542   -2.320593    1012.266

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.252963   21.519043    0.061293
-3.072206   -1.239872   -559.636569
0.25000    0.252963   21.519043    0.061293
-3.072206   -1.315850   -586.311185
0.50000    0.252963   21.519043    0.061293
-3.072206   -1.391828   -612.985801
0.75000    0.252963   21.519043    0.061293
-3.072206   -1.467806   -639.660417
1.00000    0.252963   21.519043    0.061293
-3.072206   -1.543783   -666.335033

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.469988   -3.995804   -0.052339
 0.893731    0.905565   103.971122
0.25000   -0.469988   -3.995804   -0.052339
 0.893731    0.970444   108.924249
0.50000   -0.469988   -3.995804   -0.052339
 0.893731    1.035323   113.877376
0.75000   -0.469988   -3.995804   -0.052339
 0.893731    1.100202   118.830503
1.00000   -0.469988   -3.995804   -0.052339
 0.893731    1.165081   123.783630

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.236934   71.651480   -0.479921
-6.773638   -0.646715  -863.224480
0.25000    0.236934   71.651480   -0.479921
-6.773638   -0.051814  -952.042358
0.50000    0.236934   71.651480   -0.479921
-6.773638    0.543087   -1040.860
0.75000    0.236934   71.651480   -0.479921
-6.773638    1.137988   -1129.678
1.00000    0.236934   71.651480   -0.479921
-6.773638    1.732889   -1218.496
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          212

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.236934   -71.651480    0.479921
 6.773638    0.646715   863.224480
0.25000   -0.236934   -71.651480    0.479921
 6.773638    0.051814   952.042358
0.50000   -0.236934   -71.651480    0.479921
 6.773638   -0.543087   1040.860
0.75000   -0.236934   -71.651480    0.479921
 6.773638   -1.137988   1129.678
1.00000   -0.236934   -71.651480    0.479921
 6.773638   -1.732889   1218.496

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.771217   71.651480    0.505165
 8.306542    0.905565   863.224480
0.25000    0.771217   71.651480    0.505165
 8.306542    1.145064   952.042358
0.50000    0.771217   71.651480    0.505165
 8.306542    1.824825   1040.860
0.75000    0.771217   71.651480    0.505165
 8.306542    2.504587   1129.678
1.00000    0.771217   71.651480    0.505165
 8.306542    3.184348   1218.496

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.538162   -71.651480   -0.548380
-6.773638   -1.239872   -863.224480
0.25000   -0.538162   -71.651480   -0.548380
-6.773638   -1.315850   -952.042358
0.50000   -0.538162   -71.651480   -0.548380
-6.773638   -1.391828   -1040.860
0.75000   -0.538162   -71.651480   -0.548380
-6.773638   -1.694399   -1129.678
1.00000   -0.538162   -71.651480   -0.548380
-6.773638   -2.320593   -1218.496

ELEM       83 ========== LENGTH
=     4.957662

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.113822    4.896831   -0.001802
 0.601635   -0.037496   -17.682660
0.25000    0.113822    4.896831   -0.001802
 0.601635   -0.032583   -23.721867
0.50000    0.113822    4.896831   -0.001802
 0.601635   -0.033029   -29.821075
0.75000    0.113822    4.896831   -0.001802
 0.601635   -0.030796   -35.890282
1.00000    0.113822    4.896831   -0.001802
 0.601635   -0.028562   -41.959490

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.546825   -22.827944    0.072744
-2.653612    0.042751    82.421115
0.25000   -0.546825   -22.827944    0.072744
-2.653612   -0.047409   110.714421
0.50000   -0.546825   -22.827944    0.072744
-2.653612   -0.137569   139.007728
0.75000   -0.546825   -22.827944    0.072744
-2.653612   -0.227728   167.301035
1.00000   -0.546825   -22.827944    0.072744
-2.653612   -0.317888   195.594342

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.132309   45.286990   -0.868123
-2.613350    0.833263   -534.315322
0.25000   -0.132309   45.286990   -0.868123
-2.613350    1.909228   -590.444717
0.50000   -0.132309   45.286990   -0.868123
-2.613350    2.985193   -646.574112
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          213

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.75000   -0.132309   45.286990   -0.868123
-2.613350    4.061157   -702.703506
1.00000   -0.132309   45.286990   -0.868123
-2.613350    5.137122   -758.832901

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.788314   -44.923755    1.021557
 5.691015   -1.114151    1012.160
0.25000    0.788314   -44.923755    1.021557
 5.691015   -2.380285    1067.839
0.50000    0.788314   -44.923755    1.021557
 5.691015   -3.646418    1123.518
0.75000    0.788314   -44.923755    1.021557
 5.691015   -4.912552    1179.197
1.00000    0.788314   -44.923755    1.021557
 5.691015   -6.178686    1234.876

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.254283   21.582912   -0.211399
-2.098026   -0.637426   -666.376749
0.25000    0.254283   21.582912   -0.211399
-2.098026   -0.375415   -693.126943
0.50000    0.254283   21.582912   -0.211399
-2.098026   -0.113404   -719.877136
 0.75000    0.254283   21.582912   -0.211399
-2.098026    0.148607   -746.627330
1.00000    0.254283   21.582912   -0.211399
-2.098026    0.410617   -773.377524

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.477285   -4.015033   -0.012978
 1.072338    0.913058   123.793989
0.25000   -0.477285   -4.015033   -0.012978
 1.072338    0.929143   128.770283
0.50000   -0.477285   -4.015033   -0.012978
 1.072338    0.945228   133.746577
0.75000   -0.477285   -4.015033   -0.012978
 1.072338    0.961312   138.722870
1.00000   -0.477285   -4.015033   -0.012978
 1.072338    0.977397   143.699164

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.235796   71.766732   -1.081323
-4.109741    0.158341   -1218.375
0.25000    0.235796   71.766732   -1.081323
-4.109741    1.498550   -1307.324
0.50000    0.235796   71.766732   -1.081323
-4.109741    2.838759   -1396.272
0.75000    0.235796   71.766732   -1.081323
-4.109741    4.178968   -1485.221
1.00000    0.235796   71.766732   -1.081323
-4.109741    5.519177   -1574.170

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.235796   -71.766732    1.081323
 4.109741   -0.158341    1218.375
0.25000   -0.235796   -71.766732    1.081323
 4.109741   -1.498550    1307.324
0.50000   -0.235796   -71.766732    1.081323
 4.109741   -2.838759    1396.272
0.75000   -0.235796   -71.766732    1.081323
 4.109741   -4.178968    1485.221
1.00000   -0.235796   -71.766732    1.081323
 4.109741   -5.519177    1574.170

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.788314   71.766732    1.081323
 5.691015    0.913058   1218.375
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          214

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.25000    0.788314   71.766732    1.081323
 5.691015    1.909228   1307.324
0.50000    0.788314   71.766732    1.081323
 5.691015    2.985193   1396.272
0.75000    0.788314   71.766732    1.081323
 5.691015    4.178968   1485.221
1.00000    0.788314   71.766732    1.081323
 5.691015    5.519177   1574.170

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.546825   -71.766732   -1.081323
-4.109741   -1.114151   -1218.375
0.25000   -0.546825   -71.766732   -1.081323
-4.109741   -2.380285   -1307.324
0.50000   -0.546825   -71.766732   -1.081323
-4.109741   -3.646418   -1396.272
0.75000   -0.546825   -71.766732   -1.081323
-4.109741   -4.912552   -1485.221
1.00000   -0.546825   -71.766732   -1.081323
-4.109741   -6.178686   -1574.170

ELEM       84 ========== LENGTH
=     3.470747

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.116263    4.900698   -0.020969
 0.622551   -0.148255   -41.954939
0.25000    0.116263    4.900698   -0.020969
 0.622551   -0.130061   -46.207210
0.50000    0.116263    4.900698   -0.020969
 0.622551   -0.111866   -50.459481
0.75000    0.116263    4.900698   -0.020969
 0.622551   -0.093672   -54.711752
1.00000    0.116263    4.900698   -0.020969
 0.622551   -0.075478   -58.964023

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.556785   -22.851874    0.175332
-2.815483    0.251231    195.571915
0.25000   -0.556785   -22.851874    0.175332
-2.815483    0.099098    215.400183
0.50000   -0.556785   -22.851874    0.175332
-2.815483   -0.053035    235.228451
0.75000   -0.556785   -22.851874    0.175332
-2.815483   -0.205169    255.056719
1.00000   -0.556785   -22.851874    0.175332
-2.815483   -0.357302    274.884986

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.139759   45.204134   -1.659936
 0.327501    3.066833   -758.701646
0.25000   -0.139759   45.204134   -1.659936
 0.327501    4.507137   -797.924673
0.50000   -0.139759   45.204134   -1.659936
 0.327501    5.947442   -837.147701
0.75000   -0.139759   45.204134   -1.659936
 0.327501    7.387746   -876.370728
1.00000   -0.139759   45.204134   -1.659936
 0.327501    8.828050   -915.593755

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.811643   -44.741119    2.439118
 0.128874   -5.597779    1234.825
0.25000    0.811643   -44.741119    2.439118
 0.128874   -7.714169    1273.647
0.50000    0.811643   -44.741119    2.439118
 0.128874   -9.830559    1312.468
0.75000    0.811643   -44.741119    2.439118
 0.128874   -11.946949   1351.289
1.00000    0.811643   -44.741119    2.439118
 0.128874   -14.063339   1390.110
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          215

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
```

```
 0.00000     0.254318    21.503199    -1.052397
 0.628548    1.801454  -773.455936
 0.25000     0.254318    21.503199    -1.052397
 0.628548    2.714605  -792.113976
 0.50000     0.254318    21.503199    -1.052397
 0.628548    3.627756  -810.772016
 0.75000     0.254318    21.503199    -1.052397
 0.628548    4.540907  -829.430056
 1.00000     0.254318    21.503199    -1.052397
 0.628548    5.454057  -848.088096

LOAD      -P5 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.485680   -4.015039    0.118852
 1.108010    0.626516  143.715250
 0.25000    -0.485680   -4.015039    0.118852
 1.108010    0.523390  147.199046
 0.50000    -0.485680   -4.015039    0.118852
 1.108010    0.420264  150.682842
 0.75000    -0.485680   -4.015039    0.118852
 1.108010    0.317137  154.166638
 1.00000    -0.485680   -4.015039    0.118852
 1.108010    0.214011  157.650434

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.230822   71.608032   -2.733302
 1.578599    4.720032   -1574.113
 0.25000     0.230822   71.608032   -2.733302
 1.578599    7.091681   -1636.246
 0.50000     0.230822   71.608032   -2.733302
 1.578599    9.463331   -1698.379
 0.75000     0.230822   71.608032   -2.733302
 1.578599   11.834980   -1760.513
 1.00000     0.230822   71.608032   -2.733302
 1.578599   14.206630   -1822.646

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.230822   -71.608032    2.733302
-1.578599   -4.720032    1574.113
 0.25000    -0.230822   -71.608032    2.733302
-1.578599   -7.091681    1636.246
 0.50000    -0.230822   -71.608032    2.733302
-1.578599   -9.463331    1698.379
 0.75000    -0.230822   -71.608032    2.733302
-1.578599   -11.834980   1760.513
 1.00000    -0.230822   -71.608032    2.733302
-1.578599   -14.206630   1822.646

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.811643   71.608032    2.733302
 1.578599    4.720032    1574.113
 0.25000     0.811643   71.608032    2.733302
 1.578599    7.091681    1636.246
 0.50000     0.811643   71.608032    2.733302
 1.578599    9.463331    1698.379
 0.75000     0.811643   71.608032    2.733302
 1.578599   11.834980    1760.513
 1.00000     0.811643   71.608032    2.733302
 1.578599   14.206630    1822.646

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.556785   -71.608032   -2.733302
-2.815483   -5.597779    -1574.113
 0.25000    -0.556785   -71.608032   -2.733302
-2.815483   -7.714169    -1636.246
 0.50000    -0.556785   -71.608032   -2.733302
-2.815483   -9.830559    -1698.379
 0.75000    -0.556785   -71.608032   -2.733302
-2.815483   -11.946949   -1760.513
 1.00000    -0.556785   -71.608032   -2.733302
-2.815483   -14.206630   -1822.646
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    216

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM        85 ================== LENGTH
=     3.470017

LOAD      -A1 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.121030   -1.482446    0.021739
 0.526492   -0.182157   -58.957358
 0.25000     0.121030   -1.482446    0.021739
 0.526492   -0.201016   -57.671329
 0.50000     0.121030   -1.482446    0.021739
 0.526492   -0.219875   -56.385301
 0.75000     0.121030   -1.482446    0.021739
 0.526492   -0.238733   -55.099272
 1.00000     0.121030   -1.482446    0.021739
 0.526492   -0.257592   -53.813244

LOAD      -P1 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.581131    6.916960   -0.134810
-2.326567    0.147655   274.849075
 0.25000    -0.581131    6.916960   -0.134810
-2.326567    0.264603   268.848584
 0.50000    -0.581131    6.916960   -0.134810
-2.326567    0.381551   262.848092
 0.75000    -0.581131    6.916960   -0.134810
-2.326567    0.498499   256.847600
 1.00000    -0.581131    6.916960   -0.134810
-2.326567    0.615447   250.847108

LOAD      -P2 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.038124   -22.874248    1.205872
 0.090137   -0.961393   -915.361393
 0.25000    -0.038124   -22.874248    1.205872
 0.090137    5.962977   -895.517886
 0.50000    -0.038124   -22.874248    1.205872
 0.090137    4.916878   -875.674380
 0.75000    -0.038124   -22.874248    1.205872
 0.090137    3.870780   -855.830873
 1.00000    -0.038124   -22.874248    1.205872
 0.090137    2.824681   -835.987367

LOAD      -P3 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.651485   43.717945   -2.509828
-0.397023   -14.004509   1389.895
 0.25000     0.651485   43.717945   -2.509828
-0.397023   -11.827223   1351.969
 0.50000     0.651485   43.717945   -2.509828
-0.397023   -9.649937   1314.044
 0.75000     0.651485   43.717945   -2.509828
-0.397023   -7.472650   1276.118
 1.00000     0.651485   43.717945   -2.509828
-0.397023   -5.295364   1238.193

LOAD      -P4 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.355563   -39.328995    1.649548
 0.669117    7.249143   -848.081441
 0.25000     0.355563   -39.328995    1.649548
 0.669117    5.818153   -813.963373
 0.50000     0.355563   -39.328995    1.649548
 0.669117    4.387163   -779.845304
 0.75000     0.355563   -39.328995    1.649548
 0.669117    2.956174   -745.727236
 1.00000     0.355563   -39.328995    1.649548
 0.669117    1.525184   -711.609167

LOAD      -P5 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.508822   13.050784   -0.232521
 1.437844   -0.219209   157.656132
 0.25000    -0.508822   13.050784   -0.232521
 1.437844   -0.017495   146.334522
 0.50000    -0.508822   13.050784   -0.232521
 1.437844    0.184218   135.012911
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    217

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
     T           M2          M3
 0.75000    -0.508822   13.050784   -0.232521
 1.437844    0.385932   123.691301
 1.00000    -0.508822   13.050784   -0.232521
 1.437844    0.587645   112.369691

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.438469   -63.685689    2.877159
 1.285746   14.076062    -1822.400
 0.25000     0.438469   -63.685689    2.877159
 1.285746   11.580115    -1767.153
 0.50000     0.438469   -63.685689    2.877159
 1.285746    9.084167    -1711.905
 0.75000     0.438469   -63.685689    2.877159
 1.285746    6.588220    -1656.657
 1.00000     0.438469   -63.685689    2.877159
 1.285746    4.092272    -1601.410

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.438469   63.685689   -2.877159
-1.285746   -14.076062   1822.400
 0.25000    -0.438469   63.685689   -2.877159
-1.285746   -11.580115   1767.153
 0.50000    -0.438469   63.685689   -2.877159
-1.285746   -9.084167    1711.905
 0.75000    -0.438469   63.685689   -2.877159
-1.285746   -6.588220    1656.657
 1.00000    -0.438469   63.685689   -2.877159
-1.285746   -4.092272    1601.410

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.651485   63.685689    2.877159
 1.437844   14.076062    1822.400
 0.25000     0.651485   63.685689    2.877159
 1.437844   11.580115    1767.153
 0.50000     0.651485   63.685689    2.877159
 1.437844    9.084167    1711.905
 0.75000     0.651485   63.685689    2.877159
 1.437844    6.588220    1656.657
 1.00000     0.651485   63.685689    2.877159
 1.437844    4.092272    1601.410

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.581131   -63.685689   -2.877159
-2.326567   -14.076062   -1822.400
 0.25000    -0.581131   -63.685689   -2.877159
-2.326567   -11.827223   -1767.153
 0.50000    -0.581131   -63.685689   -2.877159
-2.326567   -9.649937    -1711.905
 0.75000    -0.581131   -63.685689   -2.877159
-2.326567   -7.472650    -1656.657
 1.00000    -0.581131   -63.685689   -2.877159
-2.326567   -5.295364    -1601.410

ELEM        86 ================== LENGTH
=     4.958005

LOAD      -A1 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.123891   -1.482054   -0.002672
 0.429228   -0.339002   -53.810435
 0.25000     0.123891   -1.482054   -0.002672
 0.429228   -0.335690   -51.973426
 0.50000     0.123891   -1.482054   -0.002672
 0.429228   -0.332378   -50.136418
 0.75000     0.123891   -1.482054   -0.002672
 0.429228   -0.329066   -48.299410
 1.00000     0.123891   -1.482054   -0.002672
 0.429228   -0.325754   -46.462402
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    218

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P1 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.593499    6.909373   -0.007463
-1.943192    0.998948   250.833408
 0.25000    -0.593499    6.909373   -0.007463
-1.943192    1.008198   242.269231
 0.50000    -0.593499    6.909373   -0.007463
-1.943192    1.017448   233.705054
 0.75000    -0.593499    6.909373   -0.007463
-1.943192    1.026698   225.140877
 1.00000    -0.593499    6.909373   -0.007463
-1.943192    1.035949   216.576700

LOAD      -P2 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.036607   -22.982910    0.319303
 2.753194    1.439909   -835.912820
 0.25000    -0.036607   -22.982910    0.319303
 2.753194    1.044133   -807.425472
 0.50000    -0.036607   -22.982910    0.319303
 2.753194    0.648356   -778.938124
 0.75000    -0.036607   -22.982910    0.319303
 2.753194    0.252580   -750.450776
 1.00000    -0.036607   -22.982910    0.319303
 2.753194   -0.143197   -721.963428

LOAD      -P3 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.661013   43.914173   -1.088418
-6.103283   -5.763525    1238.239
 0.25000     0.661013   43.914173   -1.088418
-6.103283   -4.414428    1183.808
 0.50000     0.661013   43.914173   -1.088418
-6.103283   -3.065332    1129.376
 0.75000     0.661013   43.914173   -1.088418
-6.103283   -1.716236    1074.944
 1.00000     0.661013   43.914173   -1.088418
-6.103283   -0.367140    1020.513

LOAD      -P4 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.364674   -39.403399    0.903533
 3.686616    3.545262  -711.742162
 0.25000     0.364674   -39.403399    0.903533
 3.686616    2.425331  -662.901596
 0.50000     0.364674   -39.403399    0.903533
 3.686616    1.305400  -614.061031
 0.75000     0.364674   -39.403399    0.903533
 3.686616    0.185469  -565.220465
 1.00000     0.364674   -39.403399    0.903533
 3.686616   -0.934462  -516.379900

LOAD      -P5 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.519472   13.044817   -0.124283
 1.177437    0.118408   112.392635
 0.25000    -0.519472   13.044817   -0.124283
 1.177437    0.272457   96.223567
 0.50000    -0.519472   13.044817   -0.124283
 1.177437    0.426506   80.054499
 0.75000    -0.519472   13.044817   -0.124283
 1.177437    0.580555   63.885430
 1.00000    -0.519472   13.044817   -0.124283
 1.177437    0.734604   47.716362

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.451958   -63.868363    1.220164
 6.869038    4.646169    -1601.465
 0.25000     0.451958   -63.868363    1.220164
 6.869038    3.133774    -1522.300
 0.50000     0.451958   -63.868363    1.220164
 6.869038    1.621378    -1443.136
 0.75000     0.451958   -63.868363    1.220164
 6.869038    0.108983    -1363.971
 1.00000     0.451958   -63.868363    1.220164
 6.869038   -1.403412    -1284.806
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    219

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.451958   63.868363   -1.220164
-6.869038   -4.646169    1601.465
 0.25000    -0.451958   63.868363   -1.220164
-6.869038   -3.133774    1522.300
 0.50000    -0.451958   63.868363   -1.220164
-6.869038   -1.621378    1443.136
 0.75000    -0.451958   63.868363   -1.220164
-6.869038   -0.108983    1363.971
 1.00000    -0.451958   63.868363   -1.220164
-6.869038    1.403412    1284.806

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.661013   63.868363    1.220164
 6.869038    4.646169    1601.465
 0.25000     0.661013   63.868363    1.220164
 6.869038    3.133774    1522.300
 0.50000     0.661013   63.868363    1.220164
 6.869038    1.621378    1443.136
 0.75000     0.661013   63.868363    1.220164
 6.869038    1.026698    1363.971
 1.00000     0.661013   63.868363    1.220164
 6.869038    1.403412    1284.806

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.593499   -63.868363   -1.220164
-6.869038   -5.763525   -1601.465
 0.25000    -0.593499   -63.868363   -1.220164
-6.869038   -4.414428   -1522.300
 0.50000    -0.593499   -63.868363   -1.220164
-6.869038   -3.065332   -1443.136
 0.75000    -0.593499   -63.868363   -1.220164
-6.869038   -1.716236   -1363.971
 1.00000    -0.593499   -63.868363   -1.220164
-6.869038   -1.403412   -1284.806

ELEM        87 ================== LENGTH
=     4.957746

LOAD      -A1 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.126725   -1.474240   -0.008502
 0.296875   -0.376152   -46.461127
 0.25000     0.126725   -1.474240   -0.008502
 0.296875   -0.365615   -44.633901
 0.50000     0.126725   -1.474240   -0.008502
 0.296875   -0.355077   -42.806674
 0.75000     0.126725   -1.474240   -0.008502
 0.296875   -0.344540   -40.979448
 1.00000     0.126725   -1.474240   -0.008502
 0.296875   -0.334003   -39.152221

LOAD      -P1 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.605818    6.871581    0.024404
-1.364006    1.270922   216.570565
 0.25000    -0.605818    6.871581    0.024404
-1.364006    1.149675   208.053676
 0.50000    -0.605818    6.871581    0.024404
-1.364006    1.210428   199.536787
 0.75000    -0.605818    6.871581    0.024404
-1.364006    1.180180   191.019899
 1.00000    -0.605818    6.871581    0.024404
-1.364006    1.149933   182.503010

LOAD      -P2 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.036687   -22.916543    0.031541
 3.543338   -1.000930   -721.926289
 0.25000    -0.036687   -22.916543    0.031541
 3.543338   -1.048123   -693.522687
 0.50000    -0.036687   -22.916543    0.031541
 3.543338   -1.087216   -665.119084
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    220

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
     T           M2          M3
 0.75000    -0.036687   -22.916543    0.031541
 3.543338   -1.126309   -636.715482
 1.00000    -0.036687   -22.916543    0.031541
 3.543338   -1.165402   -608.311879

LOAD      -P3 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.673750   43.835889   -0.567090
-8.760788   -1.467208    1020.614
 0.25000     0.673750   43.835889   -0.567090
-8.760788   -0.764336    966.282173
 0.50000     0.673750   43.835889   -0.567090
-8.760788   -0.061464    911.950367
 0.75000     0.673750   43.835889   -0.567090
-8.760788    0.641409    857.618561
 1.00000     0.673750   43.835889   -0.567090
-8.760788    1.344281    803.286756

LOAD      -P4 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.372007   -39.348579    0.599547
 5.330442    1.345236   -516.538205
 0.25000     0.372007   -39.348579    0.599547
 5.330442    0.602135   -467.768135
 0.50000     0.372007   -39.348579    0.599547
 5.330442   -0.140966   -418.998065
 0.75000     0.372007   -39.348579    0.599547
 5.330442   -0.884066   -370.227995
 1.00000     0.372007   -39.348579    0.599547
 5.330442   -1.627167   -321.457925

LOAD      -P5 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.529977   13.031893   -0.079900
 0.954140    0.236233   47.741079
 0.25000    -0.529977   13.031893   -0.079900
 0.954140    0.335264   31.588874
 0.50000    -0.529977   13.031893   -0.079900
 0.954140    0.434295   15.436669
 0.75000    -0.529977   13.031893   -0.079900
 0.954140    0.533327   -0.715536
 1.00000    -0.529977   13.031893   -0.079900
 0.954140    0.632358   -16.867741

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.462045   -63.739362    0.622587
 9.170655   -0.039946    -1284.926
 0.25000     0.462045   -63.739362    0.622587
 9.170655   -0.811603    -1205.925
 0.50000     0.462045   -63.739362    0.622587
 9.170655   -1.583259    -1126.924
 0.75000     0.462045   -63.739362    0.622587
 9.170655   -2.354916    -1047.923
 1.00000     0.462045   -63.739362    0.622587
 9.170655   -3.126573    -968.922025

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.462045   63.739362   -0.622587
-9.170655    0.039946    1284.926
 0.25000    -0.462045   63.739362   -0.622587
-9.170655    0.811603    1205.925
 0.50000    -0.462045   63.739362   -0.622587
-9.170655    1.583259    1126.924
 0.75000    -0.462045   63.739362   -0.622587
-9.170655    2.354916    1047.923
 1.00000    -0.462045   63.739362   -0.622587
-9.170655    3.126573    968.922025

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.673750   63.739362    0.622587
 9.170655    1.345236    1284.926
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                    221

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P           V2          V3
     T           M2          M3
 0.25000     0.673750   63.739362    0.622587
 9.170655    1.240675    1205.925
 0.50000     0.673750   63.739362    0.622587
 9.170655    1.583259    1126.924
 0.75000     0.673750   63.739362    0.622587
 9.170655    2.354916    1047.923
 1.00000     0.673750   63.739362    0.622587
 9.170655    3.126573    968.922025

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.605818   -63.739362   -0.622587
-9.170655   -1.467208    -1284.926
 0.25000    -0.605818   -63.739362   -0.622587
-9.170655   -1.048123    -1205.925
 0.50000    -0.605818   -63.739362   -0.622587
-9.170655   -1.583259    -1126.924
 0.75000    -0.605818   -63.739362   -0.622587
-9.170655   -2.354916    -1047.923
 1.00000    -0.605818   -63.739362   -0.622587
-9.170655   -3.126573   -968.922025

ELEM        88 ================== LENGTH
=     4.958680

LOAD      -A1 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.129732   -1.483201   -0.006367
 0.136334   -0.359674   -39.151824
 0.25000     0.129732   -1.483201   -0.006367
 0.136334   -0.351781   -37.313144
 0.50000     0.129732   -1.483201   -0.006367
 0.136334   -0.343889   -35.474463
 0.75000     0.129732   -1.483201   -0.006367
 0.136334   -0.335996   -33.635783
 1.00000     0.129732   -1.483201   -0.006367
 0.136334   -0.328104   -31.797103

LOAD      -P1 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.618966    6.913505    0.014484
-0.634837    1.266343   182.501303
 0.25000    -0.618966    6.913505    0.014484
-0.634837    1.248387   173.930838
 0.50000    -0.618966    6.913505    0.014484
-0.634837    1.230432   165.360374
 0.75000    -0.618966    6.913505    0.014484
-0.634837    1.212477   156.789909
 1.00000    -0.618966    6.913505    0.014484
-0.634837    1.194521   148.219445

LOAD      -P2 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    -0.038119   -23.072307    0.022813
 2.790027   -1.623453   -608.301192
 0.25000    -0.038119   -23.072307    0.022813
 2.790027   -1.651733   -579.699145
 0.50000    -0.038119   -23.072307    0.022813
 2.790027   -1.680013   -551.097099
 0.75000    -0.038119   -23.072307    0.022813
 2.790027   -1.708293   -522.495052
 1.00000    -0.038119   -23.072307    0.022813
 2.790027   -1.736573   -493.893006

LOAD      -P3 -----------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000     0.688850   44.026988   -0.520651
-8.812966   -0.324007    803.433281
 0.25000     0.688850   44.026988   -0.520651
-8.812966    0.321428    748.854345
 0.50000     0.688850   44.026988   -0.520651
-8.812966    0.966864    694.275410
 0.75000     0.688850   44.026988   -0.520651
-8.812966    1.612299    639.696475
 1.00000     0.688850   44.026988   -0.520651
-8.812966    2.257734    585.117540
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.379940	-39.391286	0.570197
5.880621	0.925087	-321.640674	
0.25000	0.379940	-39.391286	0.570197
5.880621	0.218231	-272.808479	
0.50000	0.379940	-39.391286	0.570197
5.880621	-0.488625	-223.976284	
0.75000	0.379940	-39.391286	0.570197
5.880621	-1.195481	-175.144090	
1.00000	0.379940	-39.391286	0.570197
5.880621	-1.902337	-126.311895	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.541438	13.006302	-0.080476
0.640821	0.115704	-16.840894	
0.25000	-0.541438	13.006302	-0.080476
0.640821	0.215468	-32.964416	
0.50000	-0.541438	13.006302	-0.080476
0.640821	0.315231	-49.087937	
0.75000	-0.541438	13.006302	-0.080476
0.640821	0.414995	-65.211459	
1.00000	-0.541438	13.006302	-0.080476
0.640821	0.514758	-81.334981	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.471554	-63.946795	0.586643
8.806982	-1.058040	-969.093689	
0.25000	0.471554	-63.946795	0.586643
8.806982	-1.785283	-889.820768	
0.50000	0.471554	-63.946795	0.586643
8.806982	-2.512527	-810.547846	
0.75000	0.471554	-63.946795	0.586643
8.806982	-3.239770	-731.274925	
1.00000	0.471554	-63.946795	0.586643
8.806982	-3.967014	-652.002004	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.471554	63.946795	-0.586643
-8.806982	1.058040	969.093689	
0.25000	-0.471554	63.946795	-0.586643
-8.806982	1.785283	889.820768	
0.50000	-0.471554	63.946795	-0.586643
-8.806982	2.512527	810.547846	
0.75000	-0.471554	63.946795	-0.586643
-8.806982	3.239770	731.274925	
1.00000	-0.471554	63.946795	-0.586643
-8.806982	3.967014	652.002004	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.688850	63.946795	0.586643
8.806982	1.266343	969.093689	
0.25000	0.688850	63.946795	0.586643
8.806982	1.785283	889.820768	
0.50000	0.688850	63.946795	0.586643
8.806982	2.512527	810.547846	
0.75000	0.688850	63.946795	0.586643
8.806982	3.239770	731.274925	
1.00000	0.688850	63.946795	0.586643
8.806982	3.967014	652.002004	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.618966	-63.946795	-0.586643
-8.812966	-1.623453	-969.093689	
0.25000	-0.618966	-63.946795	-0.586643
-8.812966	-1.785283	-889.820768	
0.50000	-0.618966	-63.946795	-0.586643
-8.812966	-2.512527	-810.547846	
0.75000	-0.618966	-63.946795	-0.586643
-8.812966	-3.239770	-731.274925	
1.00000	-0.618966	-63.946795	-0.586643
-8.812966	-3.967014	-652.002004	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 89 ========== LENGTH = 4.957664

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.132949	-1.473483	-0.003855
-0.022254	-0.330000	-31.797268	
0.25000	0.132949	-1.473483	-0.003855
-0.022254	-0.325222	-29.971010	
0.50000	0.132949	-1.473483	-0.003855
-0.022254	-0.320443	-28.144752	
0.75000	0.132949	-1.473483	-0.003855
-0.022254	-0.315665	-26.318494	
1.00000	0.132949	-1.473483	-0.003855
-0.022254	-0.310886	-24.492236	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.633110	6.868536	0.001694
0.095007	1.197360	148.220595	
0.25000	-0.633110	6.868536	0.001694
0.095007	1.195260	139.707621	
0.50000	-0.633110	6.868536	0.001694
0.095007	1.193161	131.194647	
0.75000	-0.633110	6.868536	0.001694
0.095007	1.191062	122.681674	
1.00000	-0.633110	6.868536	0.001694
0.095007	1.188963	114.168700	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.039556	-22.919774	0.075030
1.494583	-1.804790	-493.899433	
0.25000	-0.039556	-22.919774	0.075030
1.494583	-1.897784	-465.492298	
0.50000	-0.039556	-22.919774	0.075030
1.494583	-1.990777	-437.085163	
0.75000	-0.039556	-22.919774	0.075030
1.494583	-2.083770	-408.678028	
1.00000	-0.039556	-22.919774	0.075030
1.494583	-2.176763	-380.270893	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.706220	43.822216	-0.607835
-7.993849	0.099346	595.288112	
0.25000	0.706220	43.822216	-0.607835
-7.993849	0.852706	530.974155	
0.50000	0.706220	43.822216	-0.607835
-7.993849	1.606066	476.660197	
0.75000	0.706220	43.822216	-0.607835
-7.993849	2.359426	422.346239	
1.00000	0.706220	43.822216	-0.607835
-7.993849	3.112786	368.032282	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.387027	-39.305900	0.626312
6.229218	0.810014	-126.504214	
0.25000	0.387027	-39.305900	0.626312
6.229218	0.033753	-77.787850	
0.50000	0.387027	-39.305900	0.626312
6.229218	-0.742509	-29.071487	
0.75000	0.387027	-39.305900	0.626312
6.229218	-1.518771	19.644876	
1.00000	0.387027	-39.305900	0.626312
6.229218	-2.295032	68.361240	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.553529	13.008404	-0.091346
0.197295	0.028071	-81.307793	
0.25000	-0.553529	13.008404	-0.091346
0.197295	0.141286	-97.430618	
0.50000	-0.553529	13.008404	-0.091346
0.197295	0.254502	-113.553443	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.553529	13.008404	-0.091346
0.197295	0.367717	-129.676268	
1.00000	-0.553529	13.008404	-0.091346
0.197295	0.480933	-145.799093	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.480420	-63.699156	0.697487
7.701547	-1.324776	-652.200914	
0.25000	0.480420	-63.699156	0.697487
7.701547	-2.189253	-573.251158	
0.50000	0.480420	-63.699156	0.697487
7.701547	-3.053729	-494.301402	
0.75000	0.480420	-63.699156	0.697487
7.701547	-3.918206	-415.351646	
1.00000	0.480420	-63.699156	0.697487
7.701547	-4.782682	-336.401889	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.480420	63.699156	-0.697487
-7.701547	1.324776	652.200914	
0.25000	-0.480420	63.699156	-0.697487
-7.701547	2.189253	573.251158	
0.50000	-0.480420	63.699156	-0.697487
-7.701547	3.053729	494.301402	
0.75000	-0.480420	63.699156	-0.697487
-7.701547	3.918206	415.351646	
1.00000	-0.480420	63.699156	-0.697487
-7.701547	4.782682	336.401889	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.706220	63.699156	0.697487
7.701547	1.324776	652.200914	
0.25000	0.706220	63.699156	0.697487
7.701547	2.189253	573.251158	
0.50000	0.706220	63.699156	0.697487
7.701547	3.053729	494.301402	
0.75000	0.706220	63.699156	0.697487
7.701547	3.918206	422.346239	
1.00000	0.706220	63.699156	0.697487
7.701547	4.782682	368.032282	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.633110	-63.699156	-0.697487
-7.993849	-1.804790	-652.200914	
0.25000	-0.633110	-63.699156	-0.697487
-7.993849	-2.189253	-573.251158	
0.50000	-0.633110	-63.699156	-0.697487
-7.993849	-3.053729	-494.301402	
0.75000	-0.633110	-63.699156	-0.697487
-7.993849	-3.918206	-415.351646	
1.00000	-0.633110	-63.699156	-0.697487
-7.993849	-4.782682	-380.270893	

ELEM 90 ========== LENGTH = 4.957812

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.136357	-1.474100	-0.009332
-0.176420	0.291147	-24.492919	
0.25000	0.136357	-1.474100	-0.009332
-0.176420	-0.279581	-22.665841	
0.50000	0.136357	-1.474100	-0.009332
-0.176420	-0.268014	-20.838764	
0.75000	0.136357	-1.474100	-0.009332
-0.176420	-0.256447	-19.011686	
1.00000	0.136357	-1.474100	-0.009332
-0.176420	-0.244880	-17.184608	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.648188	6.871564	0.026511
0.809196	1.088749	114.172429	
0.25000	-0.648188	6.871564	0.026511
0.809196	1.055889	105.655448	
0.50000	-0.648188	6.871564	0.026511
0.809196	1.023030	97.138466	
0.75000	-0.648188	6.871564	0.026511
0.809196	0.990171	88.621485	
1.00000	-0.648188	6.871564	0.026511
0.809196	0.957312	80.104503	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.040754	-22.910299	0.118964
0.119696	-1.891764	-380.292060	
0.25000	-0.040754	-22.910299	0.118964
0.119696	-2.039214	-351.895819	
0.50000	-0.040754	-22.910299	0.118964
0.119696	-2.186664	-323.499578	
0.75000	-0.040754	-22.910299	0.118964
0.119696	-2.334114	-295.103337	
1.00000	-0.040754	-22.910299	0.118964
0.119696	-2.481564	-266.707096	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.722825	43.806451	-0.721827
-7.285106	0.570695	368.223421	
0.25000	0.722825	43.806451	-0.721827
-7.285106	1.465366	313.927379	
0.50000	0.722825	43.806451	-0.721827
-7.285106	2.360037	259.631338	
0.75000	0.722825	43.806451	-0.721827
-7.285106	3.254707	205.335297	
1.00000	0.722825	43.806451	-0.721827
-7.285106	4.149378	151.039255	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.396478	-39.310257	0.658353
6.894658	0.441481	68.163858	
0.25000	0.396478	-39.310257	0.658353
6.894658	-0.374517	116.887078	
0.50000	0.396478	-39.310257	0.658353
6.894658	-1.190514	165.610299	
0.75000	0.396478	-39.310257	0.658353
6.894658	-2.006511	214.333519	
1.00000	0.396478	-39.310257	0.658353
6.894658	-2.822508	263.056740	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.566719	13.016641	-0.072668
-0.362024	0.081987	-145.774728	
0.25000	-0.566719	13.016641	-0.072668
-0.362024	0.172056	-161.908245	
0.50000	-0.566719	13.016641	-0.072668
-0.362024	0.262125	-178.041761	
0.75000	-0.566719	13.016641	-0.072668
-0.362024	0.352193	-194.175278	
1.00000	-0.566719	13.016641	-0.072668
-0.362024	0.442262	-210.308794	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.492082	-63.694656	0.767984
6.837934	-1.741431	-336.621121	
0.25000	0.492082	-63.694656	0.767984
6.837934	-2.693311	-257.674582	
0.50000	0.492082	-63.694656	0.767984
6.837934	-3.645191	-178.728043	
0.75000	0.492082	-63.694656	0.767984
6.837934	-4.597072	-99.781504	
1.00000	0.492082	-63.694656	0.767984
6.837934	-5.548952	-20.834964	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.492082	63.694656	-0.767984
-6.837934	1.741431	336.621121	
0.25000	-0.492082	63.694656	-0.767984
-6.837934	2.693311	257.674582	
0.50000	-0.492082	63.694656	-0.767984
-6.837934	3.645191	178.728043	
0.75000	-0.492082	63.694656	-0.767984
-6.837934	4.597072	99.781504	
1.00000	-0.492082	63.694656	-0.767984
-6.837934	5.548952	20.834964	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.722825	63.694656	0.767984
6.894658	1.741431	368.223421	
0.25000	0.722825	63.694656	0.767984
6.894658	2.693311	313.927379	
0.50000	0.722825	63.694656	0.767984
6.894658	3.645191	259.631338	
0.75000	0.722825	63.694656	0.767984
6.894658	4.597072	214.333519	
1.00000	0.722825	63.694656	0.767984
6.894658	5.548952	263.056740	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.648188	-63.694656	-0.767984
-7.285106	-1.891764	-380.292060	
0.25000	-0.648188	-63.694656	-0.767984
-7.285106	-2.693311	-351.895819	
0.50000	-0.648188	-63.694656	-0.767984
-7.285106	-3.645191	-323.499578	
0.75000	-0.648188	-63.694656	-0.767984
-7.285106	-4.597072	-295.103337	
1.00000	-0.648188	-63.694656	-0.767984
-7.285106	-5.548952	-266.707096	

ELEM 91 ========== LENGTH = 4.958087

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139914	-1.477511	-0.032902
-0.322092	-0.209153	-17.185490	
0.25000	0.139914	-1.477511	-0.032902
-0.322092	-0.168370	-15.354083	
0.50000	0.139914	-1.477511	-0.032902
-0.322092	-0.127587	-13.522676	
0.75000	0.139914	-1.477511	-0.032902
-0.322092	-0.086805	-11.691269	
1.00000	0.139914	-1.477511	-0.032902
-0.322092	-0.046022	-9.859861	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.663974	6.887426	0.136009
1.486276	0.780914	80.109276	
0.25000	-0.663974	6.887426	0.136009
1.486276	0.612328	71.572162	
0.50000	-0.663974	6.887426	0.136009
1.486276	0.443742	63.035047	
0.75000	-0.663974	6.887426	0.136009
1.486276	0.275157	54.497933	
1.00000	-0.663974	6.887426	0.136009
1.486276	0.106571	45.960819	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.041735	-22.899076	0.166657
-0.971570	-1.936671	-266.737687	
0.25000	-0.041735	-22.899076	0.166657
-0.971570	-2.142246	-238.353785	
0.50000	-0.041735	-22.899076	0.166657
-0.971570	-2.349821	-209.969883	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.041735	-22.899076	0.166657
-0.971570	-2.556396	-181.585981	
1.00000	-0.041735	-22.899076	0.166657
-0.971570	-2.762971	-153.202078	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.739692	43.760344	-0.958835
-7.064050	1.404433	151.240305	
0.25000	0.739692	43.760344	-0.958835
-7.064050	2.592930	96.998408	
0.50000	0.739692	43.760344	-0.958835
-7.064050	3.781427	42.756511	
0.75000	0.739692	43.760344	-0.958835
-7.064050	4.969923	-11.485385	
1.00000	0.739692	43.760344	-0.958835
-7.064050	6.158420	-65.727282	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.406673	-39.295969	0.681438
7.796311	-0.225269	262.863796	
0.25000	0.406673	-39.295969	0.681438
7.796311	-1.069926	311.572004	
0.50000	0.406673	-39.295969	0.681438
7.796311	-1.914584	360.280211	
0.75000	0.406673	-39.295969	0.681438
7.796311	-2.759242	408.988419	
1.00000	0.406673	-39.295969	0.681438
7.796311	-3.603899	457.696626	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.580569	13.024786	0.007633
-0.924876	0.185746	-210.290200	
0.25000	-0.580569	13.024786	0.007633
-0.924876	0.176285	-226.434706	
0.50000	-0.580569	13.024786	0.007633
-0.924876	0.166824	-242.579212	
0.75000	-0.580569	13.024786	0.007633
-0.924876	0.157362	-258.723717	
1.00000	-0.580569	13.024786	0.007633
-0.924876	0.147901	-274.868223	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.504851	-63.672556	0.815193
6.502650	-2.371093	-21.059380	
0.25000	0.504851	-63.672556	0.815193
6.502650	-3.381543	57.864136	
0.50000	0.504851	-63.672556	0.815193
6.502650	-4.391993	136.787653	
0.75000	0.504851	-63.672556	0.815193
6.502650	-5.402443	215.711169	
1.00000	0.504851	-63.672556	0.815193
6.502650	-6.412892	294.634686	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.504851	63.672556	-0.815193
-6.502650	2.371093	21.059380	
0.25000	-0.504851	63.672556	-0.815193
-6.502650	3.381543	-57.864136	
0.50000	-0.504851	63.672556	-0.815193
-6.502650	4.391993	-136.787653	
0.75000	-0.504851	63.672556	-0.815193
-6.502650	5.402443	-215.711169	
1.00000	-0.504851	63.672556	-0.815193
-6.502650	6.412892	-294.634686	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.739692	63.672556	0.815193
7.796311	2.371093	262.863796	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.739692	63.672556	0.815193
7.796311	3.381543	311.572004	
0.50000	0.739692	63.672556	0.815193
7.796311	4.391993	360.280211	
0.75000	0.739692	63.672556	0.815193
7.796311	5.402443	408.988419	
1.00000	0.739692	63.672556	0.815193
7.796311	6.412892	457.696626	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.663974	-63.672556	-0.958835
-7.064050	-2.371093	-266.737687	
0.25000	-0.663974	-63.672556	-0.958835
-7.064050	-3.381543	-238.353785	
0.50000	-0.663974	-63.672556	-0.958835
-7.064050	-4.391993	-242.579212	
0.75000	-0.663974	-63.672556	-0.958835
-7.064050	-5.402443	-258.723717	
1.00000	-0.663974	-63.672556	-0.958835
-7.064050	-6.412892	-294.634686	

ELEM 92 ========== LENGTH = 4.957431

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.143581	-1.483819	-0.070854
-0.473986	0.000342	-9.860711	
0.25000	0.143581	-1.483819	-0.070854
-0.473986	0.088155	-8.021728	
0.50000	0.143581	-1.483819	-0.070854
-0.473986	0.175969	-6.182746	
0.75000	0.143581	-1.483819	-0.070854
-0.473986	0.263782	-4.343763	
1.00000	0.143581	-1.483819	-0.070854
-0.473986	0.351596	-2.504780	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.680289	6.916680	0.312695
2.193132	-0.120523	45.965513	
0.25000	-0.680289	6.916680	0.312695
2.193132	-0.508064	37.393273	
0.50000	-0.680289	6.916680	0.312695
2.193132	-0.895604	28.821032	
0.75000	-0.680289	6.916680	0.312695
2.193132	-1.283145	20.248792	
1.00000	-0.680289	6.916680	0.312695
2.193132	-1.670686	11.676551	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.042972	-22.880295	0.227001
-1.690355	-2.056174	-153.238048	
0.25000	-0.042972	-22.880295	0.227001
-1.690355	-2.337510	-124.881177	
0.50000	-0.042972	-22.880295	0.227001
-1.690355	-2.618846	-96.524305	
0.75000	-0.042972	-22.880295	0.227001
-1.690355	-2.900181	-68.167434	
1.00000	-0.042972	-22.880295	0.227001
-1.690355	-3.181517	-39.810562	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	

```
0.00000      0.758374     43.770453     -1.310664
-7.504370     3.403036    -65.526506
0.25000      0.758374     43.770453     -1.310664
-7.504370     5.027417    -119.773757
0.50000      0.758374     43.770453     -1.310664
-7.504370     6.651798    -174.021007
0.75000      0.758374     43.770453     -1.310664
-7.504370     8.276180    -228.268258
1.00000      0.758374     43.770453     -1.310664
-7.504370     9.900561    -282.515508
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<            UNEQUAL            SETTLEMENT            >
                                  229

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.416282    -39.454912      0.702931
 8.664302    -1.312695    457.519148
0.25000     0.416282    -39.454912      0.702931
 8.664302    -2.183878    506.417899
0.50000     0.416282    -39.454912      0.702931
 8.664302    -3.055060    555.316649
0.75000     0.416282    -39.454912      0.702931
 8.664302    -3.926243    604.215400
1.00000     0.416282    -39.454912      0.702931
 8.664302    -4.797425    653.114150

LOAD      -P5 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.594975     13.131893      0.138891
-1.188723     0.086015   -274.859396
0.25000    -0.594975     13.131893      0.138891
-1.188723    -0.086121   -291.134509
0.50000    -0.594975     13.131893      0.138891
-1.188723    -0.258257   -307.409623
0.75000    -0.594975     13.131893      0.138891
-1.188723    -0.430393   -323.684737
1.00000    -0.594975     13.131893      0.138891
-1.188723    -0.602529   -339.959850

LOAD   -2N+1- ------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.516891    -63.819026      0.859078
 6.499961    -3.368527    294.420389
0.25000     0.516891    -63.819026      0.859078
 6.499961    -4.433232    373.514994
0.50000     0.516891    -63.819026      0.859078
 6.499961    -5.497937    452.609598
0.75000     0.516891    -63.819026      0.859078
 6.499961    -6.562642    531.704203
1.00000     0.516891    -63.819026      0.859078
 6.499961    -7.627347    610.798807

LOAD   -2N+2- ------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.516891     63.819026     -0.859078
-6.499961     3.368527   -294.420389
0.25000    -0.516891     63.819026     -0.859078
-6.499961     4.433232   -373.514994
0.50000    -0.516891     63.819026     -0.859078
-6.499961     5.497937   -452.609598
0.75000    -0.516891     63.819026     -0.859078
-6.499961     6.562642   -531.704203
1.00000    -0.516891     63.819026     -0.859078
-6.499961     7.627347   -610.798807

COMB  SETTLE ------------------- MAX

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.758374     63.819026      0.859078
 8.664302     3.403036    457.519148
0.25000     0.758374     63.819026      0.859078
 8.664302     5.027417    506.417899
0.50000     0.758374     63.819026      0.859078
 8.664302     6.651798    555.316649
0.75000     0.758374     63.819026      0.859078
 8.664302     8.276180    604.215400
1.00000     0.758374     63.819026      0.859078
 8.664302     9.900561    653.114150

COMB  SETTLE ------------------- MIN

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.680289    -63.819026     -1.310664
-7.504370    -3.368527   -294.420389
0.25000    -0.680289    -63.819026     -1.310664
-7.504370    -4.433232   -373.514994
0.50000    -0.680289    -63.819026     -1.310664
-7.504370    -5.497937   -452.609598
0.75000    -0.680289    -63.819026     -1.310664
-7.504370    -6.562642   -531.704203
1.00000    -0.680289    -63.819026     -1.310664
-7.504370    -7.627347   -610.798807
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<            UNEQUAL            SETTLEMENT            >
                                  230

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       93 ================== LENGTH
=      4.958017

LOAD      -A1 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.147596    -1.489012     -0.060023
-0.644842     0.404109    -2.504997
0.25000     0.147596    -1.489012     -0.060023
-0.644842     0.478508    -0.659360
0.50000     0.147596    -1.489012     -0.060023
-0.644842     0.552907     1.186277
0.75000     0.147596    -1.489012     -0.060023
-0.644842     0.627305     3.031914
1.00000     0.147596    -1.489012     -0.060023
-0.644842     0.701704     4.877551

LOAD      -P1 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.698251     6.940831      0.262294
 2.989251    -1.927042    11.678344
0.25000    -0.698251     6.940831      0.262294
 2.989251    -2.252156     3.075155
0.50000    -0.698251     6.940831      0.262294
 2.989251    -2.577271    -5.528034
0.75000    -0.698251     6.940831      0.262294
 2.989251    -2.902385   -14.131224
1.00000    -0.698251     6.940831      0.262294
 2.989251    -3.227500   -22.734413

LOAD      -P2 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.043726    -22.923120      0.211003
-1.998124     2.417012    -39.846774
0.25000    -0.043726    -22.923120      0.211003
-1.998124     2.678551    -11.433471
0.50000    -0.043726    -22.923120      0.211003
-1.998124     2.940090     16.979832
0.75000    -0.043726    -22.923120      0.211003
-1.998124     3.201628     45.393134
1.00000    -0.043726    -22.923120      0.211003
-1.998124     3.463167     73.806437

LOAD      -P3 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.776317     43.731076     -1.211185
-8.221819     7.310159    -282.310776
0.25000     0.776317     43.731076     -1.211185
-8.221819     8.811429    -336.523626
0.50000     0.776317     43.731076     -1.211185
-8.221819    10.312698    -390.728476
0.75000     0.776317     43.731076     -1.211185
-8.221819    11.813968    -444.933327
1.00000     0.776317     43.731076     -1.211185
-8.221819    13.315237    -499.138177

LOAD      -P4 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.428602    -39.316591      0.687946
 8.582073    -2.916934    652.956067
0.25000     0.428602    -39.316591      0.687946
 8.582073    -3.769646    701.689146
0.50000     0.428602    -39.316591      0.687946
 8.582073    -4.622358    750.422225
0.75000     0.428602    -39.316591      0.687946
 8.582073    -5.475071    799.155303
1.00000     0.428602    -39.316591      0.687946
 8.582073    -6.327783    847.888382

LOAD      -P5 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.610538     13.056817      0.109965
-0.706540    -0.453281   -339.963863
0.25000    -0.610538     13.056817      0.109965
-0.706540    -0.589584   -356.147842
0.50000    -0.610538     13.056817      0.109965
-0.706540    -0.725886   -372.331822
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<            UNEQUAL            SETTLEMENT            >
                                  231

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
      T           M2            M3
0.75000    -0.610538     13.056817      0.109965
-0.706540    -0.862189   -388.515801
1.00000    -0.610538     13.056817      0.109965
-0.706540    -0.998491   -404.699781

LOAD   -2N+1- ------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.532472    -63.728724      0.838926
 5.939107    -4.929836    610.604296
0.25000     0.532472    -63.728724      0.838926
 5.939107    -5.969689    689.596314
0.50000     0.532472    -63.728724      0.838926
 5.939107    -7.009541    768.588333
0.75000     0.532472    -63.728724      0.838926
 5.939107    -8.049394    847.580351
1.00000     0.532472    -63.728724      0.838926
 5.939107    -9.089246    926.572370

LOAD   -2N+2- ------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.532472     63.728724     -0.838926
-5.939107     4.929836   -610.604296
0.25000    -0.532472     63.728724     -0.838926
-5.939107     5.969689   -689.596314
0.50000    -0.532472     63.728724     -0.838926
-5.939107     7.009541   -768.588333
0.75000    -0.532472     63.728724     -0.838926
-5.939107     8.049394   -847.580351
1.00000    -0.532472     63.728724     -0.838926
-5.939107     9.089246   -926.572370

COMB  SETTLE ------------------- MAX

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.776317     63.728724      0.838926
 8.582073     7.310159    652.956067
0.25000     0.776317     63.728724      0.838926
 8.582073     8.811429    701.689146
0.50000     0.776317     63.728724      0.838926
 8.582073    10.312698    768.588333
0.75000     0.776317     63.728724      0.838926
 8.582073    11.813968    847.580351
1.00000     0.776317     63.728724      0.838926
 8.582073    13.315237    926.572370

COMB  SETTLE ------------------- MIN

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.698251    -63.728724     -1.211185
-8.221819    -7.429836   -610.604296
0.25000    -0.698251    -63.728724     -1.211185
-8.221819    -5.969689   -689.596314
0.50000    -0.698251    -63.728724     -1.211185
-8.221819    -7.009541   -768.588333
0.75000    -0.698251    -63.728724     -1.211185
-8.221819    -8.049394   -847.580351
1.00000    -0.698251    -63.728724     -1.211185
-8.221819    -9.089246   -926.572370

ELEM       94 ================== LENGTH
=      4.957604

LOAD      -A1 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.152673    -1.457321      0.174492
-0.880928     0.757357     4.877914
0.25000     0.152673    -1.457321      0.174492
-0.880928     0.541092     6.684119
0.50000     0.152673    -1.457321      0.174492
-0.880928     0.324827     8.490323
0.75000     0.152673    -1.457321      0.174492
-0.880928     0.108562    10.296528
1.00000     0.152673    -1.457321      0.174492
-0.880928    -0.107703    12.102732
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<            UNEQUAL            SETTLEMENT            >
                                  232

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.721154     6.793807      -0.829615
 4.091154    -3.498553    -22.735332
0.25000    -0.721154     6.793807      -0.829615
 4.091154    -2.470328    -31.155584
0.50000    -0.721154     6.793807      -0.829615
 4.091154    -1.442102    -39.575835
0.75000    -0.721154     6.793807      -0.829615
 4.091154    -0.413877    -47.996087
1.00000    -0.721154     6.793807      -0.829615
 4.091154     0.614348    -56.416339

LOAD      -P2 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.046878    -23.005129     -0.152531
-1.876414    -2.729369     73.771798
0.25000    -0.046878    -23.005129     -0.152531
-1.876414    -2.540323    102.284378
0.50000    -0.046878    -23.005129     -0.152531
-1.876414    -2.351276    130.796958
0.75000    -0.046878    -23.005129     -0.152531
-1.876414    -2.162230    159.309539
1.00000    -0.046878    -23.005129     -0.152531
-1.876414    -1.973183    187.822119

LOAD      -P3 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.806672     44.149212      0.965837
-8.759287    11.045347   -498.960705
0.25000     0.806672     44.149212      0.965837
-8.759287     9.848288   -553.679282
0.50000     0.806672     44.149212      0.965837
-8.759287     8.651229   -608.397859
0.75000     0.806672     44.149212      0.965837
-8.759287     7.454170   -663.116437
1.00000     0.806672     44.149212      0.965837
-8.759287     6.257112   -717.835014

LOAD      -P4 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.438827    -39.494699      0.502864
 6.018713    -4.941515    847.759759
0.25000     0.438827    -39.494699      0.502864
 6.018713    -5.564865    896.719528
0.50000     0.438827    -39.494699      0.502864
 6.018713    -6.188115    945.669298
0.75000     0.438827    -39.494699      0.502864
 6.018713    -6.811365    994.619067
1.00000     0.438827    -39.494699      0.502864
 6.018713    -7.434615    1043.569

LOAD      -P5 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.630140     13.014130     -0.661047
 1.406762    -0.633167   -404.723434
0.25000    -0.630140     13.014130     -0.661047
 1.406762     0.186135   -420.853159
0.50000    -0.630140     13.014130     -0.661047
 1.406762     1.005437   -436.982885
0.75000    -0.630140     13.014130     -0.661047
 1.406762     1.824740   -453.112610
1.00000    -0.630140     13.014130     -0.661047
 1.406762     2.644042   -469.242335

LOAD   -2N+1- ------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.544622    -63.957149      0.524825
 3.261371    -6.913627    926.419471
0.25000     0.544622    -63.957149      0.524825
 3.261371    -7.564095    1005.688
0.50000     0.544622    -63.957149      0.524825
 3.261371    -8.214564    1084.957
0.75000     0.544622    -63.957149      0.524825
 3.261371    -8.865033    1164.225
1.00000     0.544622    -63.957149      0.524825
 3.261371    -9.515501    1243.494
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<            UNEQUAL            SETTLEMENT            >
                                  233

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.544622     63.957149     -0.524825
-3.261371     6.913627   -926.419471
0.25000    -0.544622     63.957149     -0.524825
-3.261371     7.564095   -1005.688
0.50000    -0.544622     63.957149     -0.524825
-3.261371     8.214564   -1084.957
0.75000    -0.544622     63.957149     -0.524825
-3.261371     8.865033   -1164.225
1.00000    -0.544622     63.957149     -0.524825
-3.261371     9.515501   -1243.494

COMB  SETTLE ------------------- MAX

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.806672     63.957149      0.965837
 6.018713    11.045347    926.419471
0.25000     0.806672     63.957149      0.965837
 6.018713     9.848288    1005.688
0.50000     0.806672     63.957149      0.965837
 6.018713     8.651229    1084.957
0.75000     0.806672     63.957149      0.965837
 6.018713     8.865033    1164.225
1.00000     0.806672     63.957149      0.965837
 6.018713     9.515501    1243.494

COMB  SETTLE ------------------- MIN

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.721154    -63.957149     -0.829615
-8.759287    -6.913627   -926.419471
0.25000    -0.721154    -63.957149     -0.829615
-8.759287    -7.564095   -1005.688
0.50000    -0.721154    -63.957149     -0.829615
-8.759287    -8.214564   -1084.957
0.75000    -0.721154    -63.957149     -0.829615
-8.759287    -8.865033   -1164.225
1.00000    -0.721154    -63.957149     -0.829615
-8.759287    -9.515501   -1243.494

ELEM       95 ================== LENGTH
=      3.471159

LOAD      -A1 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.159930    -1.310228      0.839554
-1.322008    -0.051539    12.103927
0.25000     0.159930    -1.310228      0.839554
-1.322008    -0.780096    13.240930
0.50000     0.159930    -1.310228      0.839554
-1.322008    -1.508652    14.377933
0.75000     0.159930    -1.310228      0.839554
-1.322008    -2.237208    15.514936
1.00000     0.159930    -1.310228      0.839554
-1.322008    -2.965764    16.651939

LOAD      -P1 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.754145     6.111175      -3.925681
 6.152028     0.340573    -56.421130
0.25000    -0.754145     6.111175      -3.925681
 6.152028     3.747239    -61.724346
0.50000    -0.754145     6.111175      -3.925681
 6.152028     7.153905    -67.027562
0.75000    -0.754145     6.111175      -3.925681
 6.152028    10.560571    -72.330778
1.00000    -0.754145     6.111175      -3.925681
 6.152028    13.967237    -77.633994

LOAD      -P2 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.053245    -23.297651     -1.220911
-1.423639    -1.289399    187.787785
0.25000    -0.053245    -23.297651     -1.220911
-1.423639    -0.229905    208.005250
0.50000    -0.053245    -23.297651     -1.220911
-1.423639     0.829590    228.222715
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<            UNEQUAL            SETTLEMENT            >
                                  234

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
      T           M2            M3
0.75000    -0.053245    -23.297651     -1.220911
-1.423639     1.889084    248.440181
1.00000    -0.053245    -23.297651     -1.220911
-1.423639     2.948579    268.657646

LOAD      -P3 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.856436     45.687575      7.256296
-9.791699     4.279421    -717.675598
0.25000     0.856436     45.687575      7.256296
-9.791699    -2.017519    -757.322812
0.50000     0.856436     45.687575      7.256296
-9.791699    -8.314459    -796.970026
0.75000     0.856436     45.687575      7.256296
-9.791699    -14.611400   -836.617240
1.00000     0.856436     45.687575      7.256296
-9.791699    -20.908340   -876.264454

LOAD      -P4 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.448583    -39.779288     -0.046553
 0.554137    -6.569203    1043.499
0.25000     0.448583    -39.779288     -0.046553
 0.554137    -6.528805    1078.020
0.50000     0.448583    -39.779288     -0.046553
 0.554137    -6.488406    1112.540
0.75000     0.448583    -39.779288     -0.046553
 0.554137    -6.448008    1147.060
1.00000     0.448583    -39.779288     -0.046553
 0.554137    -6.407610    1181.580

LOAD      -P5 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.657560     12.588417      -2.902705
 5.831183     3.290147    -469.294474
0.25000    -0.657560     12.588417      -2.902705
 5.831183     5.809085    -480.218575
0.50000    -0.657560     12.588417      -2.902705
 5.831183     8.328022    -491.142676
0.75000    -0.657560     12.588417      -2.902705
 5.831183    10.846960    -502.066777
1.00000    -0.657560     12.588417      -2.902705
 5.831183    13.365898    -512.990878

LOAD   -2N+1- ------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.555269    -64.387167     -0.427911
-2.191511    -7.910141    1243.391
0.25000     0.555269    -64.387167     -0.427911
-2.191511    -7.538805    1299.266
0.50000     0.555269    -64.387167     -0.427911
-2.191511    -7.167468    1355.140
0.75000     0.555269    -64.387167     -0.427911
-2.191511    -6.796132    1411.015
1.00000     0.555269    -64.387167     -0.427911
-2.191511    -6.424795    1466.889

LOAD   -2N+2- ------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.555269     64.387167      0.427911
 2.191511     7.910141    -1243.391
0.25000    -0.555269     64.387167      0.427911
 2.191511     7.538805    -1299.266
0.50000    -0.555269     64.387167      0.427911
 2.191511     7.167468    -1355.140
0.75000    -0.555269     64.387167      0.427911
 2.191511     6.796132    -1411.015
1.00000    -0.555269     64.387167      0.427911
 2.191511     6.424795    -1466.889

COMB  SETTLE ------------------- MAX

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.856436     64.387167      7.256296
 6.152028     7.910141    1243.391
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<            UNEQUAL            SETTLEMENT            >
                                  235

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
      T           M2            M3
0.25000     0.856436     64.387167      7.256296
 6.152028     7.538805    1299.266
0.50000     0.856436     64.387167      7.256296
 6.152028     8.328022    1355.140
0.75000     0.856436     64.387167      7.256296
 6.152028    10.846960    1411.015
1.00000     0.856436     64.387167      7.256296
 6.152028    13.967237    1466.889

COMB  SETTLE ------------------- MIN

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.754145    -64.387167     -3.925681
-9.791699    -7.910141    -1243.391
0.25000    -0.754145    -64.387167     -3.925681
-9.791699    -7.538805    -1299.266
0.50000    -0.754145    -64.387167     -3.925681
-9.791699    -8.314459    -1355.140
0.75000    -0.754145    -64.387167     -3.925681
-9.791699    -14.611400   -1411.015
1.00000    -0.754145    -64.387167     -3.925681
-9.791699    -20.908340   -1466.889

ELEM       96 ================== LENGTH
=      4.957662

LOAD      -A1 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.040306     0.184533      -0.662434
 0.700147    -2.921550    16.500225
0.25000     0.040306     0.184533      -0.662434
 0.700147    -2.100519    16.271511
0.50000     0.040306     0.184533      -0.662434
 0.700147    -1.279488    16.042798
0.75000     0.040306     0.184533      -0.662434
 0.700147    -0.458457    15.814084
1.00000     0.040306     0.184533      -0.662434
 0.700147     0.362574    15.585371

LOAD      -P1 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000    -0.195394    -0.862864      3.085345
-3.268173    13.749613    -76.925742
0.25000    -0.195394    -0.862864      3.085345
-3.268173     9.925588    -75.856295
0.50000    -0.195394    -0.862864      3.085345
-3.268173     6.101564    -74.786848
0.75000    -0.195394    -0.862864      3.085345
-3.268173     2.277539    -73.717401
1.00000    -0.195394    -0.862864      3.085345
-3.268173    -1.546485    -72.647954

LOAD      -P2 --------------------

REL DIST          P             V2             V3
      T           M2            M3
0.00000     0.131541     5.513045      1.019546
-4.322879     3.552560    268.860678
0.25000     0.131541     5.513045      1.019546
```

-4.322879	2.288919	262.027725	
0.50000	0.131541	5.513045	1.019546
-4.32879	1.025278	255.194772	
0.75000	0.131541	5.513045	1.019546
-4.32879	-0.238363	248.361818	
1.00000	0.131541	5.513045	1.019546
-4.322879	-1.502004	241.528865	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.234302	-18.556634	-6.044061
11.683457	-22.628413	-877.520386	
0.25000	-0.234302	-18.556634	-6.044061
11.683457	-15.137311	-854.521007	
0.50000	-0.234302	-18.556634	-6.044061
11.683457	-7.646209	-831.521628	
0.75000	-0.234302	-18.556634	-6.044061
11.683457	-0.155107	-808.522249	
1.00000	-0.234302	-18.556634	-6.044061
11.683457	7.335995	-785.522871	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.489044	23.360002	-0.122244
-7.007566	-5.977588	1181.610	
0.25000	0.489044	23.360002	-0.122244
-7.007566	-5.826077	1152.657	
0.50000	0.489044	23.360002	-0.122244
-7.007566	-5.674565	1123.704	
0.75000	0.489044	23.360002	-0.122244
-7.007566	-5.523054	1094.752	
1.00000	0.489044	23.360002	-0.122244
-7.007566	-5.371542	1065.799	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.231195	-9.638082	2.723848
2.215014	14.225379	-512.524679	
0.25000	-0.231195	-9.638082	2.723848
2.215014	10.849400	-500.579091	
0.50000	-0.231195	-9.638082	2.723848
2.215014	7.473421	-488.633504	
0.75000	-0.231195	-9.638082	2.723848
2.215014	4.097442	-476.687916	
1.00000	-0.231195	-9.638082	2.723848
2.215014	0.721463	-464.742328	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.660891	29.057580	0.234867
-10.630298	-5.346579	1466.971	
0.25000	0.660891	29.057580	0.234867
-10.630298	-5.637677	1430.956	
0.50000	0.660891	29.057580	0.234867
-10.630298	-5.928775	1394.942	
0.75000	0.660891	29.057580	0.234867
-10.630298	-6.219874	1358.928	
1.00000	0.660891	29.057580	0.234867
-10.630298	-6.510972	1322.913	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.660891	-29.057580	-0.234867
10.630298	5.346579	-1466.971	
0.25000	-0.660891	-29.057580	-0.234867
10.630298	5.637677	-1430.956	
0.50000	-0.660891	-29.057580	-0.234867
10.630298	5.928775	-1394.942	
0.75000	-0.660891	-29.057580	-0.234867
10.630298	6.219874	-1358.928	
1.00000	-0.660891	-29.057580	-0.234867
10.630298	6.510972	-1322.913	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.660891	29.057580	3.085345
11.683457	14.225379	1466.971	
0.25000	0.660891	29.057580	3.085345
11.683457	10.849400	1430.956	
0.50000	0.660891	29.057580	3.085345
11.683457	7.473421	1394.942	
0.75000	0.660891	29.057580	3.085345
11.683457	6.219874	1358.928	
1.00000	0.660891	29.057580	3.085345
11.683457	7.335995	1322.913	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.660891	-29.057580	-6.044061
-10.630298	-22.628413	-1466.971	
0.25000	-0.660891	-29.057580	-6.044061
-10.630298	-15.137311	-1430.956	
0.50000	-0.660891	-29.057580	-6.044061
-10.630298	-7.646209	-1394.942	
0.75000	-0.660891	-29.057580	-6.044061
-10.630298	-6.219874	-1358.928	
1.00000	-0.660891	-29.057580	-6.044061
-10.630298	-6.510972	-1322.913	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 97 ========== LENGTH = 4.957571

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.042867	0.317275	-0.093373
0.392831	0.388412	15.581103	
0.25000	0.042867	0.317275	-0.093373
0.392831	0.504138	15.187875	
0.50000	0.042867	0.317275	-0.093373
0.392831	0.619864	14.794646	
0.75000	0.042867	0.317275	-0.093373
0.392831	0.735590	14.401418	
1.00000	0.042867	0.317275	-0.093373
0.392831	0.851316	14.008190	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.206530	-1.479083	0.435823
-1.830378	-1.677099	-72.627441	
0.25000	-0.206530	-1.479083	0.435823
-1.830378	-2.217255	-70.794276	
0.50000	-0.206530	-1.479083	0.435823
-1.830378	-2.757410	-68.961111	
0.75000	-0.206530	-1.479083	0.435823
-1.830378	-3.297565	-67.127947	
1.00000	-0.206530	-1.479083	0.435823
-1.830378	-3.837721	-65.294782	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.131921	5.285531	0.124153
-3.233682	-1.052510	241.520235	
0.25000	0.131921	5.285531	0.124153
-3.233682	-1.206385	234.969387	
0.50000	0.131921	5.285531	0.124153
-3.233682	-1.360260	228.418539	
0.75000	0.131921	5.285531	0.124153
-3.233682	-1.514135	221.867690	
1.00000	0.131921	5.285531	0.124153
-3.233682	-1.668009	215.316842	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.225172	-17.271804	-0.722196
10.366422	6.078896	-785.500687	
0.25000	-0.225172	-17.271804	-0.722196
10.366422	6.973981	-764.054140	
0.50000	-0.225172	-17.271804	-0.722196
10.366422	7.869065	-742.687593	
0.75000	-0.225172	-17.271804	-0.722196
10.366422	8.764150	-721.281046	
1.00000	-0.225172	-17.271804	-0.722196
10.366422	9.659234	-699.874498	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.497252	23.204547	-0.576425
-11.275620	-5.554081	1065.853	
0.25000	0.497252	23.204547	-0.576425
-11.275620	-4.839664	1037.093	
0.50000	0.497252	23.204547	-0.576425
-11.275620	-4.125247	1008.334	
0.75000	0.497252	23.204547	-0.576425
-11.275620	-3.410830	979.574338	
1.00000	0.497252	23.204547	-0.576425
-11.275620	-2.696412	950.814793	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.240338	-10.056466	0.832018
5.580427	1.816383	-464.826184	
0.25000	-0.240338	-10.056466	0.832018
5.580427	0.785185	-452.362274	
0.50000	-0.240338	-10.056466	0.832018
5.580427	-0.246013	-439.898364	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	-0.240338	-10.056466	0.832018
5.580427	-1.277210	-427.434455	
1.00000	-0.240338	-10.056466	0.832018
5.580427	-2.308408	-414.970545	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.672040	28.807353	-0.545645
-14.116471	-6.218180	1322.954	
0.25000	0.672040	28.807353	-0.545645
-14.116471	-5.541911	1287.251	
0.50000	0.672040	28.807353	-0.545645
-14.116471	-4.865643	1251.547	
0.75000	0.672040	28.807353	-0.545645
-14.116471	-4.189374	1215.843	
1.00000	0.672040	28.807353	-0.545645
-14.116471	-3.513106	1180.140	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.672040	-28.807353	0.545645
14.116471	6.218180	-1322.954	
0.25000	-0.672040	-28.807353	0.545645
14.116471	5.541911	-1287.251	
0.50000	-0.672040	-28.807353	0.545645
14.116471	4.865643	-1251.547	
0.75000	-0.672040	-28.807353	0.545645
14.116471	4.189374	-1215.843	
1.00000	-0.672040	-28.807353	0.545645
14.116471	3.513106	-1180.140	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.672040	28.807353	0.832018
14.116471	6.218180	1322.954	
0.25000	0.672040	28.807353	0.832018
14.116471	6.973981	1287.251	
0.50000	0.672040	28.807353	0.832018
14.116471	7.869065	1251.547	
0.75000	0.672040	28.807353	0.832018
14.116471	8.764150	1215.843	
1.00000	0.672040	28.807353	0.832018
14.116471	9.659234	1180.140	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.672040	-28.807353	-0.722196
-14.116471	-6.218180	-1322.954	
0.25000	-0.672040	-28.807353	-0.722196
-14.116471	-5.541911	-1287.251	
0.50000	-0.672040	-28.807353	-0.722196
-14.116471	-4.865643	-1251.547	
0.75000	-0.672040	-28.807353	-0.722196
-14.116471	-4.189374	-1215.843	
1.00000	-0.672040	-28.807353	-0.722196
-14.116471	-3.837721	-1180.140	

ELEM 98 ========== LENGTH = 4.958766

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.047594	0.348015	0.073376
0.253396	0.873117	14.005204	
0.25000	0.047594	0.348015	0.073376
0.253396	0.782152	13.573773	
0.50000	0.047594	0.348015	0.073376
0.253396	0.691188	13.142341	
0.75000	0.047594	0.348015	0.073376
0.253396	0.600224	12.710910	
1.00000	0.047594	0.348015	0.073376
0.253396	0.509260	12.279479	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.227760	-1.621828	-0.340472
-1.178788	-3.949807	-65.280305	
0.25000	-0.227760	-1.621828	-0.340472
-1.178788	-3.526727	-63.269738	
0.50000	-0.227760	-1.621828	-0.340472
-1.178788	-3.104646	-61.259171	
0.75000	-0.227760	-1.621828	-0.340472
-1.178788	-2.682566	-59.248604	
1.00000	-0.227760	-1.621828	-0.340472
-1.178788	-2.260486	-57.238037	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.129221	5.210023	-0.140325
-2.235147	-1.359325	215.312618	
0.25000	0.129221	5.210023	-0.140325
-2.235147	-1.185366	208.853796	
0.50000	0.129221	5.210023	-0.140325
-2.235147	-1.011406	202.394975	
0.75000	0.129221	5.210023	-0.140325
-2.235147	-0.837446	195.936153	
1.00000	0.129221	5.210023	-0.140325
-2.235147	-0.663486	189.477332	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.196938	-16.901547	0.843489
8.491004	8.883946	-699.877269	
0.25000	-0.196938	-16.901547	0.843489
8.491004	7.838279	-678.924565	
0.50000	-0.196938	-16.901547	0.843489
8.491004	6.792613	-657.971861	
0.75000	-0.196938	-16.901547	0.843489
8.491004	5.746947	-637.019157	
1.00000	-0.196938	-16.901547	0.843489
8.491004	4.701280	-616.066453	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.503594	23.089021	-0.708469
-12.148517	-3.482690	950.923466	
0.25000	0.503594	23.089021	-0.708469
-12.148517	-2.604407	922.300203	
0.50000	0.503594	23.089021	-0.708469
-12.148517	-1.726123	893.676940	
0.75000	0.503594	23.089021	-0.708469
-12.148517	-0.847840	865.053677	
1.00000	0.503594	23.089021	-0.708469
-12.148517	0.030444	836.430414	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.255712	-10.123684	0.272401
6.818051	-0.966240	-415.083713	
0.25000	-0.255712	-10.123684	0.272401
6.818051	-1.303933	-402.533468	
0.50000	-0.255712	-10.123684	0.272401
6.818051	-1.641626	-389.983223	
0.75000	-0.255712	-10.123684	0.272401
6.818051	-1.979319	-377.432978	
1.00000	-0.255712	-10.123684	0.272401
6.818051	-2.317012	-364.882733	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.680410	28.647059	-0.775418
-14.130267	-3.968899	1180.241	
0.25000	0.680410	28.647059	-0.775418
-14.130267	-3.007620	1144.728	
0.50000	0.680410	28.647059	-0.775418
-14.130267	-2.046341	1109.214	
0.75000	0.680410	28.647059	-0.775418
-14.130267	-1.085062	1073.701	
1.00000	0.680410	28.647059	-0.775418
-14.130267	-0.123783	1038.187	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.680410	-28.647059	0.775418
14.130267	3.968899	-1180.241	
0.25000	-0.680410	-28.647059	0.775418
14.130267	3.007620	-1144.728	
0.50000	-0.680410	-28.647059	0.775418
14.130267	2.046341	-1109.214	
0.75000	-0.680410	-28.647059	0.775418
14.130267	1.085062	-1073.701	
1.00000	-0.680410	-28.647059	0.775418
14.130267	0.123783	-1038.187	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.680410	28.647059	0.843489
14.130267	8.883946	1180.241	
0.25000	0.680410	28.647059	0.843489
14.130267	7.838279	1144.728	
0.50000	0.680410	28.647059	0.843489
14.130267	6.792613	1109.214	
0.75000	0.680410	28.647059	0.843489
14.130267	5.746947	1073.701	
1.00000	0.680410	28.647059	0.843489
14.130267	4.701280	1038.187	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.680410	-28.647059	-0.775418
-14.130267	-3.968899	-1180.241	
0.25000	-0.680410	-28.647059	-0.775418
-14.130267	-3.526727	-1144.728	
0.50000	-0.680410	-28.647059	-0.775418
-14.130267	-3.104646	-1109.214	
0.75000	-0.680410	-28.647059	-0.775418
-14.130267	-2.682566	-1073.701	
1.00000	-0.680410	-28.647059	-0.775418
-14.130267	-2.317012	-1038.187	

ELEM 99 ========== LENGTH = 4.957922

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.053050	0.348906	0.064427
0.173749	0.527465	12.277349	
0.25000	0.053050	0.348906	0.064427
0.173749	0.447609	11.844888	
0.50000	0.053050	0.348906	0.064427
0.173749	0.367753	11.412426	
0.75000	0.053050	0.348906	0.064427
0.173749	0.287897	10.979964	
1.00000	0.053050	0.348906	0.064427
0.173749	0.208041	10.547502	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.252380	-1.626049	-0.298762
-0.807416	-2.354138	-57.227597	
0.25000	-0.252380	-1.626049	-0.298762
-0.807416	-1.983829	-55.212141	
0.50000	-0.252380	-1.626049	-0.298762
-0.807416	-1.613519	-53.196685	
0.75000	-0.252380	-1.626049	-0.298762
-0.807416	-1.243209	-51.181230	
1.00000	-0.252380	-1.626049	-0.298762
-0.807416	-0.872899	-49.165774	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.125296	5.231212	-0.124188
-1.377287	-0.490400	189.475727	
0.25000	0.125296	5.231212	-0.124188
-1.377287	-0.336471	182.991741	
0.50000	0.125296	5.231212	-0.124188
-1.377287	-0.182542	176.507755	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	0.125296	5.231212	-0.124188
-1.377287	-0.028613	170.023769	
1.00000	0.125296	5.231212	-0.124188
-1.377287	0.125316	163.539783	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.161830	-16.976145	0.753947
6.240013	4.389977	-616.083596	
0.25000	-0.161830	-16.976145	0.753947
6.240013	3.455474	-595.041994	
0.50000	-0.161830	-16.976145	0.753947
6.240013	2.520971	-574.000391	
0.75000	-0.161830	-16.976145	0.753947
6.240013	1.586468	-552.958789	
1.00000	-0.161830	-16.976145	0.753947
6.240013	0.651964	-531.917187	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.510104	23.187580	-0.701812
-11.251950	-1.327413	836.568940	
0.25000	0.510104	23.187580	-0.701812
-11.251950	-0.457530	807.828385	
0.50000	0.510104	23.187580	-0.701812
-11.251950	0.412353	779.087829	
0.75000	0.510104	23.187580	-0.701812
-11.251950	1.282235	750.347274	
1.00000	0.510104	23.187580	-0.701812
-11.251950	2.152118	721.606718	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.274240	-10.165505	0.306388
7.022891	-0.745491	-365.010824	
0.25000	-0.274240	-10.165505	0.306388
7.022891	-1.125253	-352.410879	
0.50000	-0.274240	-10.165505	0.306388
7.022891	-1.505015	-339.810933	
0.75000	-0.274240	-10.165505	0.306388
7.022891	-1.884778	-327.210988	
1.00000	-0.274240	-10.165505	0.306388
7.022891	-2.264540	-314.611042	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.688450	28.767698	-0.761573
-12.455488	-1.290348	1038.322	
0.25000	0.688450	28.767698	-0.761573
-12.455488	-0.346392	1002.665	
0.50000	0.688450	28.767698	-0.761573
-12.455488	0.597563	967.008010	
0.75000	0.688450	28.767698	-0.761573
-12.455488	1.541519	931.351006	
1.00000	0.688450	28.767698	-0.761573
-12.455488	2.485475	895.694003	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.688450	-28.767698	0.761573
12.455488	1.290348	-1038.322	
0.25000	-0.688450	-28.767698	0.761573
12.455488	0.346392	-1002.665	
0.50000	-0.688450	-28.767698	0.761573
12.455488	-0.597563	-967.008010	
0.75000	-0.688450	-28.767698	0.761573
12.455488	-1.541519	-931.351006	
1.00000	-0.688450	-28.767698	0.761573
12.455488	-2.485475	-895.694003	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.688450	28.767698	0.761573
12.455488	4.389977	1038.322	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	0.688450	28.767698	0.761573
12.455488	3.455474	1002.665	
0.50000	0.688450	28.767698	0.761573
12.455488	2.520971	967.008010	
0.75000	0.688450	28.767698	0.761573
12.455488	1.586468	931.351006	
1.00000	0.688450	28.767698	0.761573
12.455488	2.485475	895.694003	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.688450	-28.767698	-0.761573
-12.455488	-2.354138	-1038.322	
0.25000	-0.688450	-28.767698	-0.761573
-12.455488	-1.983829	-1002.665	
0.50000	-0.688450	-28.767698	-0.761573
-12.455488	-1.613519	-967.008010	
0.75000	-0.688450	-28.767698	-0.761573
-12.455488	-1.884778	-931.351006	
1.00000	-0.688450	-28.767698	-0.761573
-12.455488	-2.485475	-895.694003	

ELEM 100 ========== LENGTH = 4.957293

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.058520	0.343019	0.029137
0.119395	0.220959	10.545982	
0.25000	0.058520	0.343019	0.029137
0.119395	0.184849	10.120871	
0.50000	0.058520	0.343019	0.029137
0.119395	0.148739	9.695761	
0.75000	0.058520	0.343019	0.029137
0.119395	0.112629	9.270650	
1.00000	0.058520	0.343019	0.029137
0.119395	0.076519	8.845539	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.277075	-1.598738	-0.134422
-0.554583	-0.941317	-49.158209	
0.25000	-0.277075	-1.598738	-0.134422
-0.554583	-0.774725	-47.176855	
0.50000	-0.277075	-1.598738	-0.134422
-0.554583	-0.608133	-45.195502	

```
 0.75000    -0.277075    -1.598738    -0.134422
-0.554583    -0.441542    -43.214149
 1.00000    -0.277075    -1.598738    -0.134422
-0.554583    -0.274950    -41.232796

LOAD      -P2 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.121364    5.233771    -0.065132
-0.523755    0.179806    163.541328
 0.25000    0.121364    5.233771    -0.065132
-0.523755    0.260525    157.054994
 0.50000    0.121364    5.233771    -0.065132
-0.523755    0.341244    150.568660
 0.75000    0.121364    5.233771    -0.065132
-0.523755    0.421963    144.082326
 1.00000    0.121364    5.233771    -0.065132
-0.523755    0.502682    137.595992

LOAD      -P3 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.126736   -17.007470    0.413213
 3.503202    0.737651   -531.946999
 0.25000   -0.126736   -17.007470    0.413213
 3.503202    0.225547   -510.869246
 0.50000   -0.126736   -17.007470    0.413213
 3.503202   -0.286557   -489.791492
 0.75000   -0.126736   -17.007470    0.413213
 3.503202   -0.798662   -468.713738
 1.00000   -0.126736   -17.007470    0.413213
 3.503202   -1.310766   -447.635985
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL           SETTLEMENT          >
                                 243

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.516871    23.165496    -0.667698
-9.102602    0.286765    721.770250
 0.25000    0.516871    23.165496    -0.667698
-9.102602    1.114258    693.060711
 0.50000    0.516871    23.165496    -0.667698
-9.102602    1.941752    664.351172
 0.75000    0.516871    23.165496    -0.667698
-9.102602    2.769245    635.641633
 1.00000    0.516871    23.165496    -0.667698
-9.102602    3.596738    606.932094

LOAD      -P5 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.292945   -10.136078    0.424901
 6.558343   -0.483865   -314.752352
 0.25000   -0.292945   -10.136078    0.424901
 6.558343   -1.015455   -302.190475
 0.50000   -0.292945   -10.136078    0.424901
 6.558343   -1.537044   -289.628598
 0.75000   -0.292945   -10.136078    0.424901
 6.558343   -2.063634   -277.066721
 1.00000   -0.292945   -10.136078    0.424901
 6.558343   -2.590224   -264.504844

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.696755    28.742285    -0.703692
-9.506962    0.687531    895.857560
 0.25000    0.696755    28.742285    -0.703692
-9.506962    1.559633    860.236576
 0.50000    0.696755    28.742285    -0.703692
-9.506962    2.431735    824.615592
 0.75000    0.696755    28.742285    -0.703692
-9.506962    3.303837    788.994609
 1.00000    0.696755    28.742285    -0.703692
-9.506962    4.175939    753.373625

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.696755   -28.742285    0.703692
 9.506962   -0.687531   -895.857560
 0.25000   -0.696755   -28.742285    0.703692
 9.506962   -1.559633   -860.236576
 0.50000   -0.696755   -28.742285    0.703692
 9.506962   -2.431735   -824.615592
 0.75000   -0.696755   -28.742285    0.703692
 9.506962   -3.303837   -788.994609
 1.00000   -0.696755   -28.742285    0.703692
 9.506962   -4.175939   -753.373625

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.696755    28.742285    0.703692
 9.506962    0.737651    895.857560
 0.25000    0.696755    28.742285    0.703692
 9.506962    1.559633    860.236576
 0.50000    0.696755    28.742285    0.703692
 9.506962    2.431735    824.615592
 0.75000    0.696755    28.742285    0.703692
 9.506962    3.303837    788.994609
 1.00000    0.696755    28.742285    0.703692
 9.506962    4.175939    753.373625

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.696755   -28.742285    -0.703692
-9.506962   -0.941317   -895.857560
 0.25000   -0.696755   -28.742285    -0.703692
-9.506962   -1.559633   -860.236576
 0.50000   -0.696755   -28.742285    -0.703692
-9.506962   -2.431735   -824.615592
 0.75000   -0.696755   -28.742285    -0.703692
-9.506962   -3.303837   -788.994609
 1.00000   -0.696755   -28.742285    -0.703692
-9.506962   -4.175939   -753.373625
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL           SETTLEMENT          >
                                 244

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      101 ================== LENGTH
=     4.957685

LOAD      -A1 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.063842    0.339422    0.007627
 0.068281    0.083427    8.844664
 0.25000    0.063842    0.339422    0.007627
 0.068281    0.073974    8.423976
 0.50000    0.063842    0.339422    0.007627
 0.068281    0.064522    8.003289
 0.75000    0.063842    0.339422    0.007627
 0.068281    0.055069    7.582602
 1.00000    0.063842    0.339422    0.007627
 0.068281    0.045617    7.161914

LOAD      -P1 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.301085   -1.582048    -0.034274
-0.317163    -0.314864    -41.228261
 0.25000   -0.301085   -1.582048    -0.034274
-0.317163    -0.272384    -39.267438
 0.50000   -0.301085   -1.582048    -0.034274
-0.317163    -0.229904    -37.306615
 0.75000   -0.301085   -1.582048    -0.034274
-0.317163    -0.187424    -35.345791
 1.00000   -0.301085   -1.582048    -0.034274
-0.317163    -0.144944    -33.384968

LOAD      -P2 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.117649    5.239783    -0.037126
 0.207672    0.455599    137.599589
 0.25000    0.117649    5.239783    -0.037126
 0.207672    0.501613    131.105291
 0.50000    0.117649    5.239783    -0.037126
 0.207672    0.547627    124.610993
 0.75000    0.117649    5.239783    -0.037126
 0.207672    0.593641    118.116694
 1.00000    0.117649    5.239783    -0.037126
 0.207672    0.639656    111.622396

LOAD      -P3 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.093024   -17.041772    0.230972
 0.905665   -0.890921   -447.671923
 0.25000   -0.093024   -17.041772    0.230972
 0.905665   -1.177193   -426.549989
 0.50000   -0.093024   -17.041772    0.230972
 0.905665   -1.463465   -405.428055
 0.75000   -0.093024   -17.041772    0.230972
 0.905665   -1.749736   -384.306122
 1.00000   -0.093024   -17.041772    0.230972
 0.905665   -2.036008   -363.184188

LOAD      -P4 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.523620    23.169959    -0.665738
-6.858524    1.288519    607.109416
 0.25000    0.523620    23.169959    -0.665738
-6.858524    2.113650    578.392077
 0.50000    0.523620    23.169959    -0.665738
-6.858524    2.938780    549.674738
 0.75000    0.523620    23.169959    -0.665738
-6.858524    3.763910    520.957399
 1.00000    0.523620    23.169959    -0.665738
-6.858524    4.589041    492.240060

LOAD      -P5 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.311002   -10.125345    0.498539
 5.994069   -0.621760   -264.653485
 0.25000   -0.311002   -10.125345    0.498539
 5.994069   -1.239660   -252.103917
 0.50000   -0.311002   -10.125345    0.498539
 5.994069   -1.857560   -239.554349
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL           SETTLEMENT          >
                                 245

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
     T           M2          M3
 0.75000   -0.311002   -10.125345    0.498539
 5.994069   -2.475461   -227.004781
 1.00000   -0.311002   -10.125345    0.498539
 5.994069   -3.093361   -214.455214

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.705111    28.749164    -0.695237
-6.582571    1.827545    753.553669
 0.25000    0.705111    28.749164    -0.695237
-6.582571    2.689237    717.921344
 0.50000    0.705111    28.749164    -0.695237
-6.582571    3.550929    682.289019
 0.75000    0.705111    28.749164    -0.695237
-6.582571    4.412621    646.656695
 1.00000    0.705111    28.749164    -0.695237
-6.582571    5.274313    611.024370

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.705111   -28.749164    0.695237
 6.582571   -1.827545   -753.553669
 0.25000   -0.705111   -28.749164    0.695237
 6.582571   -2.689237   -717.921344
 0.50000   -0.705111   -28.749164    0.695237
 6.582571   -3.550929   -682.289019
 0.75000   -0.705111   -28.749164    0.695237
 6.582571   -4.412621   -646.656695
 1.00000   -0.705111   -28.749164    0.695237
 6.582571   -5.274313   -611.024370

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.705111    28.749164    0.695237
 6.582571    1.827545    753.553669
 0.25000    0.705111    28.749164    0.695237
 6.582571    2.689237    717.921344
 0.50000    0.705111    28.749164    0.695237
 6.582571    3.550929    682.289019
 0.75000    0.705111    28.749164    0.695237
 6.582571    4.412621    646.656695
 1.00000    0.705111    28.749164    0.695237
 6.582571    5.274313    611.024370

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.705111   -28.749164    -0.695237
-6.858524   -1.827545   -753.553669
 0.25000   -0.705111   -28.749164    -0.695237
-6.858524   -2.689237   -717.921344
 0.50000   -0.705111   -28.749164    -0.695237
-6.858524   -3.550929   -682.289019
 0.75000   -0.705111   -28.749164    -0.695237
-6.858524   -4.412621   -646.656695
 1.00000   -0.705111   -28.749164    -0.695237
-6.858524   -5.274313   -611.024370

ELEM      102 ================== LENGTH
=     4.958300

LOAD      -A1 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.068987    0.335839    -0.013550
 0.011589    0.046987    7.161621
 0.25000    0.068987    0.335839    -0.013550
 0.011589    0.063784    6.745324
 0.50000    0.068987    0.335839    -0.013550
 0.011589    0.080580    6.329027
 0.75000    0.068987    0.335839    -0.013550
 0.011589    0.097377    5.912729
 1.00000    0.068987    0.335839    -0.013550
 0.011589    0.114174    5.496432
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL           SETTLEMENT          >
                                 246

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.324279   -1.565394    0.064193
-0.053975    -0.156830    -33.383166
 0.25000   -0.324279   -1.565394    0.064193
-0.053975    -0.238202    -31.442743
 0.50000   -0.324279   -1.565394    0.064193
-0.053975    -0.317774    -29.502320
 0.75000   -0.324279   -1.565394    0.064193
-0.053975    -0.397346    -27.561897
 1.00000   -0.324279   -1.565394    0.064193
-0.053975    -0.476918    -25.621474

LOAD      -P2 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.113980    5.239325    -0.048102
 0.848099    0.509787    111.627526
 0.25000    0.113980    5.239325    -0.048102
 0.848099    0.569413    105.132989
 0.50000    0.113980    5.239325    -0.048102
 0.848099    0.629039    98.638452
 0.75000    0.113980    5.239325    -0.048102
 0.848099    0.688664    92.143915
 1.00000    0.113980    5.239325    -0.048102
 0.848099    0.748290    85.649378

LOAD      -P3 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.060176   -17.054620    0.175437
-1.528433    -1.347034   -363.224023
 0.25000   -0.060176   -17.054620    0.175437
-1.528433    -1.564501   -342.083541
 0.50000   -0.060176   -17.054620    0.175437
-1.528433    -1.781968   -320.943059
 0.75000   -0.060176   -17.054620    0.175437
-1.528433    -1.999436   -299.802578
 1.00000   -0.060176   -17.054620    0.175437
-1.528433    -2.216903   -278.662096

LOAD      -P4 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.529283    23.153165    -0.767466
-4.780722    1.922299    492.429572
 0.25000    0.529283    23.153165    -0.767466
-4.780722    2.673631    463.729486
 0.50000    0.529283    23.153165    -0.767466
-4.780722    3.424963    435.029400
 0.75000    0.529283    23.153165    -0.767466
-4.780722    4.776295    406.329315
 1.00000    0.529283    23.153165    -0.767466
-4.780722    5.727627    377.629229

LOAD      -P5 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.327795   -10.108315    0.589488
 5.503441    -0.973411   -214.611530
 0.25000   -0.327795   -10.108315    0.589488
 5.503441    -1.704125   -202.081514
 0.50000   -0.327795   -10.108315    0.589488
 5.503441    -2.434840   -189.551499
 0.75000   -0.327795   -10.108315    0.589488
 5.503441    -3.165555   -177.021484
 1.00000   -0.327795   -10.108315    0.589488
 5.503441    -3.896270   -164.491469

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.712250    28.728329    -0.829118
-3.921034    2.479074    611.218718
 0.25000    0.712250    28.728329    -0.829118
-3.921034    3.506828    575.607798
 0.50000    0.712250    28.728329    -0.829118
-3.921034    4.534582    539.996879
 0.75000    0.712250    28.728329    -0.829118
-3.921034    5.562336    504.385959
 1.00000    0.712250    28.728329    -0.829118
-3.921034    6.590091    468.775039
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL           SETTLEMENT          >
                                 247

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.712250   -28.728329    0.829118
 3.921034    -2.479074   -611.218718
 0.25000   -0.712250   -28.728329    0.829118
 3.921034    -3.506828   -575.607798
 0.50000   -0.712250   -28.728329    0.829118
 3.921034    -4.534582   -539.996879
 0.75000   -0.712250   -28.728329    0.829118
 3.921034    -5.562336   -504.385959
 1.00000   -0.712250   -28.728329    0.829118
 3.921034    -6.590091   -468.775039

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.712250    28.728329    0.829118
 5.503441    2.479074    611.218718
 0.25000    0.712250    28.728329    0.829118
 5.503441    3.506828    575.607798
 0.50000    0.712250    28.728329    0.829118
 5.503441    4.534582    539.996879
 0.75000    0.712250    28.728329    0.829118
 5.503441    5.562336    504.385959
 1.00000    0.712250    28.728329    0.829118
 5.503441    6.590091    468.775039

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.712250   -28.728329    -0.829118
-4.780722    -2.479074   -611.218718
 0.25000   -0.712250   -28.728329    -0.829118
-4.780722    -3.506828   -575.607798
 0.50000   -0.712250   -28.728329    -0.829118
-4.780722    -4.534582   -539.996879
 0.75000   -0.712250   -28.728329    -0.829118
-4.780722    -5.562336   -504.385959
 1.00000   -0.712250   -28.728329    -0.829118
-4.780722    -6.590091   -468.775039

ELEM      103 ================== LENGTH
=     4.958049

LOAD      -A1 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.073882    0.328338    -0.054358
-0.065490    0.111181    5.496732
 0.25000    0.073882    0.328338    -0.054358
-0.065490    0.178559    5.089753
 0.50000    0.073882    0.328338    -0.054358
-0.065490    0.245937    4.682775
 0.75000    0.073882    0.328338    -0.054358
-0.065490    0.313315    4.275796
 1.00000    0.073882    0.328338    -0.054358
-0.065490    0.380692    3.868818

LOAD      -P1 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.346319   -1.530524    0.253751
 0.303954    -0.469921    -25.622450
 0.25000   -0.346319   -1.530524    0.253751
 0.303954    -0.784449    -23.725347
 0.50000   -0.346319   -1.530524    0.253751
 0.303954    -1.098977    -21.828244
 0.75000   -0.346319   -1.530524    0.253751
 0.303954    -1.413505    -19.931141
 1.00000   -0.346319   -1.530524    0.253751
 0.303954    -1.728033    -18.034038

LOAD      -P2 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.110205    5.232650    -0.096296
 1.340065    0.554153    85.655483
 0.25000    0.110205    5.232650    -0.096296
 1.340065    0.673513    79.169550
 0.50000    0.110205    5.232650    -0.096296
 1.340065    0.792873    72.683616
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL           SETTLEMENT          >
                                 248

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
     T           M2          M3
 0.75000    0.110205    5.232650    -0.096296
 1.340065    0.912233    66.197683
 1.00000    0.110205    5.232650    -0.096296
 1.340065    1.031593    59.711749

LOAD      -P3 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.028043   -17.064279    0.159425
-3.579985    -1.319985   -278.703062
 0.25000   -0.028043   -17.064279    0.159425
-3.579985    -1.517594   -257.551681
 0.50000   -0.028043   -17.064279    0.159425
-3.579985    -1.715204   -236.400299
 0.75000   -0.028043   -17.064279    0.159425
-3.579985    -1.912813   -215.248918
 1.00000   -0.028043   -17.064279    0.159425
-3.579985    -2.110422   -194.097537

LOAD      -P4 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.533540    23.104625    -1.072208
-3.296323    2.789000    377.826062
 0.25000    0.533540    23.104625    -1.072208
-3.296323    4.118015    349.187600
 0.50000    0.533540    23.104625    -1.072208
-3.296323    5.447030    320.549137
 0.75000    0.533540    23.104625    -1.072208
-3.296323    6.776046    291.910674
 1.00000    0.533540    23.104625    -1.072208
-3.296323    8.105061    263.272212

LOAD      -P5 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.343266   -10.070809    0.809686
 5.297779    -1.664428   -164.652765
 0.25000   -0.343266   -10.070809    0.809686
 5.297779    -2.668044   -152.169875
 0.50000   -0.343266   -10.070809    0.809686
 5.297779    -3.671660   -139.686984
 0.75000   -0.343266   -10.070809    0.809686
 5.297779    -4.675275   -127.204094
 1.00000   -0.343266   -10.070809    0.809686
 5.297779    -5.678891   -114.721203

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.717628    28.665613    -1.222863
-2.021748    3.454334    468.978277
 0.25000    0.717628    28.665613    -1.222863
-2.021748    4.970087    433.446903
 0.50000    0.717628    28.665613    -1.222863
-2.021748    6.485841    397.915528
 0.75000    0.717628    28.665613    -1.222863
-2.021748    8.001594    362.384153
 1.00000    0.717628    28.665613    -1.222863
-2.021748    9.517347    326.852778

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.717628   -28.665613    1.222863
 2.021748    -3.454334   -468.978277
 0.25000   -0.717628   -28.665613    1.222863
 2.021748    -4.970087   -433.446903
 0.50000   -0.717628   -28.665613    1.222863
 2.021748    -6.485841   -397.915528
 0.75000   -0.717628   -28.665613    1.222863
 2.021748    -8.001594   -362.384153
 1.00000   -0.717628   -28.665613    1.222863
 2.021748    -9.517347   -326.852778

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.717628    28.665613    1.222863
 5.297779    3.454334    468.978277
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL           SETTLEMENT          >
                                 249

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
     T           M2          M3
 0.25000    0.717628    28.665613    1.222863
 5.297779    4.970087    433.446903
 0.50000    0.717628    28.665613    1.222863
 5.297779    6.485841    397.915528
 0.75000    0.717628    28.665613    1.222863
 5.297779    8.001594    362.384153
 1.00000    0.717628    28.665613    1.222863
 5.297779    9.517347    326.852778

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
     T           M2          M3
 0.00000   -0.717628   -28.665613    -1.222863
-3.579985    -3.454334   -468.978277
 0.25000   -0.717628   -28.665613    -1.222863
-3.579985    -4.970087   -433.446903
 0.50000   -0.717628   -28.665613    -1.222863
-3.579985    -6.485841   -397.915528
 0.75000   -0.717628   -28.665613    -1.222863
-3.579985    -8.001594   -362.384153
 1.00000   -0.717628   -28.665613    -1.222863
-3.579985    -9.517347   -326.852778

ELEM      104 ================== LENGTH
=     4.957925

LOAD      -A1 --------------------

REL DIST          P           V2          V3
     T           M2          M3
 0.00000    0.078580    0.316400    -0.093233
-0.182036    0.375535    3.869778
 0.25000    0.078580    0.316400    -0.093233
-0.182036    0.491095    3.477607
 0.50000    0.078580    0.316400    -0.093233
-0.182036    0.606656    3.085436
 0.75000    0.078580    0.316400    -0.093233
-0.182036    0.722216    2.693264
 1.00000    0.078580    0.316400    -0.093233
```

```
-0.182036     0.837777     2.301093

LOAD      -P1 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.367443    -1.475025     0.434226
 0.845356    -1.710679    -18.038103
0.25000    -0.367443    -1.475025     0.434226
 0.845356    -2.248895    -16.209837
0.50000    -0.367443    -1.475025     0.434226
 0.845356    -2.787110    -14.381571
0.75000    -0.367443    -1.475025     0.434226
 0.845356    -3.325326    -12.553305
1.00000    -0.367443    -1.475025     0.434226
 0.845356    -3.863541    -10.725039

LOAD      -P2 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.106252     5.226275    -0.147424
 1.587965     0.791249     59.718754
0.25000     0.106252     5.226275    -0.147424
 1.587965     0.973978     53.240684
0.50000     0.106252     5.226275    -0.147424
 1.587965     1.156708     46.763014
0.75000     0.106252     5.226275    -0.147424
 1.587965     1.339437     40.285144
1.00000     0.106252     5.226275    -0.147424
 1.587965     1.522167     33.807274

LOAD      -P3 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.003864    -17.095734     0.165667
-5.013381    -1.059516    -194.138736
0.25000     0.003864    -17.095734     0.165667
-5.013381    -1.264858    -172.948896
0.50000     0.003864    -17.095734     0.165667
-5.013381    -1.470199    -151.759056
0.75000     0.003864    -17.095734     0.165667
-5.013381    -1.675541    -130.569216
1.00000     0.003864    -17.095734     0.165667
-5.013381    -1.880882    -109.379377
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                250

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.536131     23.048351    -1.414705
-2.572027     4.972809     263.475258
0.25000     0.536131     23.048351    -1.414705
-2.572027     6.726309     234.907262
0.50000     0.536131     23.048351    -1.414705
-2.572027     8.479810     206.339265
0.75000     0.536131     23.048351    -1.414705
-2.572027     10.233311     177.771268
1.00000     0.536131     23.048351    -1.414705
-2.572027     11.986811     149.203272

LOAD      -P5 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.357384    -10.020267     1.055469
 5.334122    -3.369397    -114.886952
0.25000    -0.357384    -10.020267     1.055469
 5.334122    -4.677630    -102.467020
0.50000    -0.357384    -10.020267     1.055469
 5.334122    -5.985864    -90.047087
0.75000    -0.357384    -10.020267     1.055469
 5.334122    -7.294098    -77.627155
1.00000    -0.357384    -10.020267     1.055469
 5.334122    -8.602332    -65.207223

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.720962     28.591026    -1.655362
-1.166097     6.139592     327.063791
0.25000     0.720962     28.591026    -1.655362
-1.166097     8.191383     291.625753
0.50000     0.720962     28.591026    -1.655362
-1.166097     10.243174     256.187715
0.75000     0.720962     28.591026    -1.655362
-1.166097     12.294964     220.749677
1.00000     0.720962     28.591026    -1.655362
-1.166097     14.346755     185.311639

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.720962    -28.591026     1.655362
 1.166097    -6.139592    -327.063791
0.25000    -0.720962    -28.591026     1.655362
 1.166097    -8.191383    -291.625753
0.50000    -0.720962    -28.591026     1.655362
 1.166097    -10.243174    -256.187715
0.75000    -0.720962    -28.591026     1.655362
 1.166097    -12.294964    -220.749677
1.00000    -0.720962    -28.591026     1.655362
 1.166097    -14.346755    -185.311639

COMB   SETTLE ------------------ MAX

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.720962     28.591026     1.655362
 5.334122     6.139592     327.063791
0.25000     0.720962     28.591026     1.655362
 5.334122     8.191383     291.625753
0.50000     0.720962     28.591026     1.655362
 5.334122     10.243174     256.187715
0.75000     0.720962     28.591026     1.655362
 5.334122     12.294964     220.749677
1.00000     0.720962     28.591026     1.655362
 5.334122     14.346755     185.311639

COMB   SETTLE ------------------ MIN

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.720962    -28.591026    -1.655362
-5.013381    -6.139592    -327.063791
0.25000    -0.720962    -28.591026    -1.655362
-5.013381    -8.191383    -291.625753
0.50000    -0.720962    -28.591026    -1.655362
-5.013381    -10.243174    -256.187715
0.75000    -0.720962    -28.591026    -1.655362
-5.013381    -12.294964    -220.749677
1.00000    -0.720962    -28.591026    -1.655362
-5.013381    -14.346755    -185.311639
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                251

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      105 ================== LENGTH
=     4.957807

LOAD      -A1 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.083574     0.316340     0.007103
-0.378257     0.833974     2.302703
0.25000     0.083574     0.316340     0.007103
-0.378257     0.825170     1.910615
0.50000     0.083574     0.316340     0.007103
-0.378257     0.816366     1.518526
0.75000     0.083574     0.316340     0.007103
-0.378257     0.807562     1.126438
1.00000     0.083574     0.316340     0.007103
-0.378257     0.798759     0.734349

LOAD      -P1 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.389960    -1.474733    -0.032244
 1.757066    -3.852165    -10.732142
0.25000    -0.389960    -1.474733    -0.032244
 1.757066    -3.812200    -8.904281
0.50000    -0.389960    -1.474733    -0.032244
 1.757066    -3.772235    -7.076420
0.75000    -0.389960    -1.474733    -0.032244
 1.757066    -3.732271    -5.248559
1.00000    -0.389960    -1.474733    -0.032244
 1.757066    -3.692306    -3.420698

LOAD      -P2 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.103032     5.213382    -0.057098
 1.451001     1.230961     33.815750
0.25000     0.103032     5.213382    -0.057098
 1.451001     1.328732     27.354015
0.50000     0.103032     5.213382    -0.057098
 1.451001     1.399502     20.892280
0.75000     0.103032     5.213382    -0.057098
 1.451001     1.470273     14.430545
1.00000     0.103032     5.213382    -0.057098
 1.451001     1.541044     7.968810

LOAD      -P3 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.034462    -17.051918     0.315211
-5.562288    -0.743451    -109.421879
0.25000     0.034462    -17.051918     0.315211
-5.562288    -1.134140    -88.286850
0.50000     0.034462    -17.051918     0.315211
-5.562288    -1.524829    -67.151821
0.75000     0.034462    -17.051918     0.315211
-5.562288    -1.915518    -46.016792
1.00000     0.034462    -17.051918     0.315211
-5.562288    -2.306207    -24.881763

LOAD      -P4 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.543720     23.002007    -0.896186
-2.902114     8.802055     149.407915
0.25000     0.543720     23.002007    -0.896186
-2.902114     9.912834     120.898038
0.50000     0.543720     23.002007    -0.896186
-2.902114     11.023613     92.388160
0.75000     0.543720     23.002007    -0.896186
-2.902114     12.134392     63.878282
1.00000     0.543720     23.002007    -0.896186
-2.902114     13.245171     35.368404

LOAD      -P5 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.374828    -10.005078     0.663214
 5.634592    -6.298374    -65.372348
0.25000    -0.374828    -10.005078     0.663214
 5.634592    -7.120395    -52.971536
0.50000    -0.374828    -10.005078     0.663214
 5.634592    -7.942417    -40.570725
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                252

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
          T          M2           M3
0.75000    -0.374828    -10.005078     0.663214
 5.634592    -8.764439    -28.169913
1.00000    -0.374828    -10.005078     0.663214
 5.634592    -9.586461    -15.769101

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.730326     28.531729    -0.946181
-1.829370     10.893990     185.526369
0.25000     0.730326     28.531729    -0.946181
-1.829370     12.066736     150.162667
0.50000     0.730326     28.531729    -0.946181
-1.829370     13.239482     114.798966
0.75000     0.730326     28.531729    -0.946181
-1.829370     14.412228     79.435264
1.00000     0.730326     28.531729    -0.946181
-1.829370     15.584974     44.071562

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.730326    -28.531729     0.946181
 1.829370    -10.893990    -185.526369
0.25000    -0.730326    -28.531729     0.946181
 1.829370    -12.066736    -150.162667
0.50000    -0.730326    -28.531729     0.946181
 1.829370    -13.239482    -114.798966
0.75000    -0.730326    -28.531729     0.946181
 1.829370    -14.412228    -79.435264
1.00000    -0.730326    -28.531729     0.946181
 1.829370    -15.584974    -44.071562

COMB   SETTLE ------------------ MAX

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.730326     28.531729     0.946181
 5.634592     10.893990     185.526369
0.25000     0.730326     28.531729     0.946181
 5.634592     12.066736     150.162667
0.50000     0.730326     28.531729     0.946181
 5.634592     13.239482     114.798966
0.75000     0.730326     28.531729     0.946181
 5.634592     14.412228     79.435264
1.00000     0.730326     28.531729     0.946181
 5.634592     15.584974     44.071562

COMB   SETTLE ------------------ MIN

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.730326    -28.531729    -0.946181
-5.562288    -10.893990    -185.526369
0.25000    -0.730326    -28.531729    -0.946181
-5.562288    -12.066736    -150.162667
0.50000    -0.730326    -28.531729    -0.946181
-5.562288    -13.239482    -114.798966
0.75000    -0.730326    -28.531729    -0.946181
-5.562288    -14.412228    -79.435264
1.00000    -0.730326    -28.531729    -0.946181
-5.562288    -15.584974    -44.071562

 ELEM      106 ================== LENGTH
=     1.487549

LOAD      -A1 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.090507     0.422959     0.536486
-0.769193     0.797825     0.735527
0.25000     0.090507     0.422959     0.536486
-0.769193     0.598313     0.578234
0.50000     0.090507     0.422959     0.536486
-0.769193     0.398801     0.420941
0.75000     0.090507     0.422959     0.536486
-0.769193     0.199288     0.263647
1.00000     0.090507     0.422959     0.536486
-0.769193    -0.000224     0.106354
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                253

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.421267    -1.970489    -2.489751
 3.573412    -3.695665    -3.425709
0.25000    -0.421267    -1.970489    -2.489751
 3.573412    -2.769759    -2.692909
0.50000    -0.421267    -1.970489    -2.489751
 3.573412    -1.843852    -1.960110
0.75000    -0.421267    -1.970489    -2.489751
 3.573412    -0.917946    -1.227310
1.00000    -0.421267    -1.970489    -2.489751
 3.573412     0.007961    -0.494510

LOAD      -P2 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.099299     5.308695     0.595049
 0.504381     1.196232     7.985683
0.25000     0.099299     5.308695     0.595049
 0.504381     0.974941     6.011448
0.50000     0.099299     5.308695     0.595049
 0.504381     0.753650     4.037212
0.75000     0.099299     5.308695     0.595049
 0.504381     0.532359     2.062977
1.00000     0.099299     5.308695     0.595049
 0.504381     0.311068     0.088742

LOAD      -P3 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.074363    -16.908579     0.356622
-4.461415    -0.817259    -24.955977
0.25000     0.074363    -16.908579     0.356622
-4.461415    -0.949882    -18.667894
0.50000     0.074363    -16.908579     0.356622
-4.461415    -1.082505    -12.379810
0.75000     0.074363    -16.908579     0.356622
-4.461415    -1.215128    -6.091727
1.00000     0.074363    -16.908579     0.356622
-4.461415    -1.347751     0.196357

LOAD      -P4 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.557960     23.667004     3.778108
-4.912088     9.233397     35.617611
0.25000     0.557960     23.667004     3.778108
-4.912088     7.828367     26.816156
0.50000     0.557960     23.667004     3.778108
-4.912088     6.423337     18.014701
0.75000     0.557960     23.667004     3.778108
-4.912088     5.018307     9.213246
1.00000     0.557960     23.667004     3.778108
-4.912088     3.613277     0.411791

LOAD      -P5 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.400862    -10.519590    -2.776514
 6.064903    -6.714530    -15.957135
0.25000    -0.400862    -10.519590    -2.776514
 6.064903    -5.681980    -12.045035
0.50000    -0.400862    -10.519590    -2.776514
 6.064903    -4.649430    -8.132934
0.75000    -0.400862    -10.519590    -2.776514
 6.064903    -3.616881    -4.220834
1.00000    -0.400862    -10.519590    -2.776514
 6.064903    -2.584331    -0.308733

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.747766     29.398658     4.909644
-5.176899     11.227455     44.338821
0.25000     0.747766     29.398658     4.909644
-5.176899     9.401621     33.405838
0.50000     0.747766     29.398658     4.909644
-5.176899     7.575788     22.472854
0.75000     0.747766     29.398658     4.909644
-5.176899     5.749954     11.539870
1.00000     0.747766     29.398658     4.909644
-5.176899     3.924121     0.606887
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                254

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.747766    -29.398658    -4.909644
 5.176899    -11.227455    -44.338821
0.25000    -0.747766    -29.398658    -4.909644
 5.176899    -9.401621    -33.405838
0.50000    -0.747766    -29.398658    -4.909644
 5.176899    -7.575788    -22.472854
0.75000    -0.747766    -29.398658    -4.909644
 5.176899    -5.749954    -11.539870
1.00000    -0.747766    -29.398658    -4.909644
 5.176899    -3.924121    -0.606887

COMB   SETTLE ------------------ MAX

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.747766     29.398658     4.909644
 6.064903     11.227455     44.338821
0.25000     0.747766     29.398658     4.909644
 6.064903     9.401621     33.405838
0.50000     0.747766     29.398658     4.909644
 6.064903     7.575788     22.472854
0.75000     0.747766     29.398658     4.909644
 6.064903     5.749954     11.539870
1.00000     0.747766     29.398658     4.909644
 6.064903     3.924121     0.606887

COMB   SETTLE ------------------ MIN

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.747766    -29.398658    -4.909644
-5.176899    -11.227455    -44.338821
0.25000    -0.747766    -29.398658    -4.909644
-5.176899    -9.401621    -33.405838
0.50000    -0.747766    -29.398658    -4.909644
-5.176899    -7.575788    -22.472854
0.75000    -0.747766    -29.398658    -4.909644
-5.176899    -5.749954    -11.539870
1.00000    -0.747766    -29.398658    -4.909644
-5.176899    -3.924121    -0.606887

 ELEM      107 ================== LENGTH
=     4.434986

LOAD      -A1 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.478191     14.474435     0.336120
 0.387053    -1.218721     0.072047
0.25000    -0.478191     14.474435     0.336120
 0.387053    -1.591392     -15.976434
0.50000    -0.478191     14.474435     0.336120
 0.387053    -1.964064     -32.024915
0.75000    -0.478191     14.474435     0.336120
 0.387053    -2.336735     -48.073395
1.00000    -0.478191     14.474435     0.336120
 0.387053    -2.709407     -64.121876

LOAD      -P1 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.602036    -30.173081    -0.670254
-4.300345     1.535259     -0.082088
0.25000     0.602036    -30.173081    -0.670254
-4.300345     2.278401     33.372213
0.50000     0.602036    -30.173081    -0.670254
-4.300345     3.021543     66.826514
0.75000     0.602036    -30.173081    -0.670254
-4.300345     3.764685     100.280816
1.00000     0.602036    -30.173081    -0.670254
-4.300345     4.507827     133.735117

LOAD      -P2 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.163670     20.472574     0.151472
 3.608657    -0.417176     0.013757
0.25000    -0.163670     20.472574     0.151472
 3.608657    -0.585121    -22.682141
0.50000    -0.163670     20.472574     0.151472
 3.608657    -0.753065    -45.381038
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                255

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
          T          M2           M3
0.75000    -0.163670     20.472574     0.151472
 3.608657    -0.921009     -68.079936
1.00000    -0.163670     20.472574     0.151472
 3.608657    -1.088953     -90.778833

LOAD      -P3 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.050427     -6.213907     0.233555
 0.390213     0.127442     -0.038514
0.25000     0.050427     -6.213907     0.233555
 0.390213     -0.131512     6.881134
0.50000     0.050427     -6.213907     0.233555
 0.390213     -0.390465     13.770782
0.75000     0.050427     -6.213907     0.233555
 0.390213     -0.649419     20.660430
1.00000     0.050427     -6.213907     0.233555
 0.390213     -0.908373     27.550078

LOAD      -P4 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.011377     1.768488     -0.061536
-0.094067     -0.028718     0.001933
0.25000    -0.011377     1.768488     -0.061536
-0.094067     0.039510     -1.958873
0.50000    -0.011377     1.768488     -0.061536
-0.094067     0.107738     -3.919678
0.75000    -0.011377     1.768488     -0.061536
-0.094067     0.175967     -5.880483
1.00000    -0.011377     1.768488     -0.061536
-0.094067     0.244195     -7.841288

LOAD      -P5 ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.000775     -0.328510     0.010644
 0.008489     0.001915     -0.000134
0.25000     0.000775     -0.328510     0.010644
 0.008489     -0.009886     0.364100
0.50000     0.000775     -0.328510     0.010644
 0.008489     -0.021687     0.728334
0.75000     0.000775     -0.328510     0.010644
 0.008489     -0.033488     1.092568
1.00000     0.000775     -0.328510     0.010644
 0.008489     -0.045290     1.456802

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.653238     36.715497     0.426055
 3.901643     -1.664616     0.090736
0.25000    -0.653238     36.715497     0.426055
 3.901643     -2.137003     40.617447
0.50000    -0.653238     36.715497     0.426055
 3.901643     -2.609390     81.325631
0.75000    -0.653238     36.715497     0.426055
 3.901643     -3.081777     122.033814
1.00000    -0.653238     36.715497     0.426055
 3.901643     -3.554165     162.741998

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.653238    -36.715497    -0.426055
 3.901643     1.664616     -0.090736
0.25000     0.653238    -36.715497    -0.426055
 3.901643     2.137003     40.617447
0.50000     0.653238    -36.715497    -0.426055
 3.901643     2.609390     81.325631
0.75000     0.653238    -36.715497    -0.426055
 3.901643     3.081777     122.033814
1.00000     0.653238    -36.715497    -0.426055
 3.901643     3.554165     162.741998

COMB   SETTLE ------------------ MAX

REL DIST          P            V2           V3
          T          M2           M3
0.00000     0.653238     36.715497     0.426055
 3.901643     1.664616     0.090736
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                256

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
          T          M2           M3
0.25000     0.653238     36.715497     0.426055
 3.901643     2.278401     40.617447
0.50000     0.653238     36.715497     0.426055
 3.901643     3.021543     81.325631
0.75000     0.653238     36.715497     0.426055
 3.901643     3.764685     122.033814
1.00000     0.653238     36.715497     0.426055
 3.901643     4.507827     162.741998

COMB   SETTLE ------------------ MIN

REL DIST          P            V2           V3
          T          M2           M3
0.00000    -0.653238    -36.715497    -0.670254
-4.300345     -1.664616     -0.090736
0.25000    -0.653238    -36.715497    -0.670254
-4.300345     -2.137003     -40.617447
0.50000    -0.653238    -36.715497    -0.670254
-4.300345     -2.609390     -81.325631
0.75000    -0.653238    -36.715497    -0.670254
-4.300345     -3.081777     -122.033814
1.00000    -0.653238    -36.715497    -0.670254
-4.300345     -3.554165     -162.741998

 ELEM      108 ================== LENGTH
=     4.927966

LOAD      -A1 ------------------
```

REL DIST P V2 V3
T M2 M3
0.00000 -1.087652 14.606777 -0.103944
-1.003484 -4.175252 -64.033088
0.25000 -1.087652 14.606777 -0.103944
-1.003484 -4.042194 -82.028512
0.50000 -1.087652 14.606777 -0.103944
-1.003484 -3.914135 -100.023936
0.75000 -1.087652 14.606777 -0.103944
-1.003484 -3.786077 -118.019360
1.00000 -1.087652 14.606777 -0.103944
-1.003484 -3.658018 -136.014784

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.364467 -30.740797 0.019068
-3.136849 6.337403 133.643075
0.25000 1.364467 -30.740797 0.019068
-3.136849 6.313911 171.515473
0.50000 1.364467 -30.740797 0.019068
-3.136849 6.290419 209.387871
0.75000 1.364467 -30.740797 0.019068
-3.136849 6.266927 247.260269
1.00000 1.364467 -30.740797 0.019068
-3.136849 6.243436 285.132667

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.366103 20.859118 -0.000603
4.150767 -1.574577 -90.767849
0.25000 -0.366103 20.859118 -0.000603
4.150767 -1.573834 -116.466104
0.50000 -0.366103 20.859118 -0.000603
4.150767 -1.573091 -142.164358
0.75000 -0.366103 20.859118 -0.000603
4.150767 -1.572348 -167.862613
1.00000 -0.366103 20.859118 -0.000603
4.150767 -1.571605 -193.560868

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.113002 -6.150695 0.104628
-0.022310 -0.760478 27.540306
0.25000 0.113002 -6.150695 0.104628
-0.022310 -0.889379 35.117909
0.50000 0.113002 -6.150695 0.104628
-0.022310 -1.018280 42.695512
0.75000 0.113002 -6.150695 0.104628
-0.022310 -1.147181 50.273115
1.00000 0.113002 -6.150695 0.104628
-0.022310 -1.276082 57.850718
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
257

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.025354 1.751564 -0.020996
0.030755 0.211206 -7.839148
0.25000 -0.025354 1.751564 -0.020996
0.030755 0.237073 -9.997060
0.50000 -0.025354 1.751564 -0.020996
0.030755 0.262941 -12.154972
0.75000 -0.025354 1.751564 -0.020996
0.030755 0.288808 -14.312884
1.00000 -0.025354 1.751564 -0.020996
0.030755 0.314675 -16.470796

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.001641 -0.325968 0.001847
-0.018879 -0.043302 1.456704
0.25000 0.001641 -0.325968 0.001847
-0.018879 -0.045578 1.858294
0.50000 0.001641 -0.325968 0.001847
-0.018879 -0.047854 2.259883
0.75000 0.001641 -0.325968 0.001847
-0.018879 -0.050129 2.661472
1.00000 0.001641 -0.325968 0.001847
-0.018879 -0.052405 3.063062

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.479110 37.217460 -0.125543
3.178038 -5.533623 -162.640085
0.25000 -1.479110 37.217460 -0.125543
3.178038 -5.378954 -208.491676
0.50000 -1.479110 37.217460 -0.125543
3.178038 -5.224286 -254.343266
0.75000 -1.479110 37.217460 -0.125543
3.178038 -5.069617 -300.194857
1.00000 -1.479110 37.217460 -0.125543
3.178038 -4.914949 -346.046447

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.479110 -37.217460 0.125543
-3.178038 5.533623 162.640085
0.25000 1.479110 -37.217460 0.125543
-3.178038 5.378954 208.491676
0.50000 1.479110 -37.217460 0.125543
-3.178038 5.224286 254.343266
0.75000 1.479110 -37.217460 0.125543
-3.178038 5.069617 300.194857
1.00000 1.479110 -37.217460 0.125543
-3.178038 4.914949 346.046447

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.479110 37.217460 0.125543
4.150767 6.337403 162.640085
0.25000 1.479110 37.217460 0.125543
4.150767 6.313911 208.491676
0.50000 1.479110 37.217460 0.125543
4.150767 6.290419 254.343266
0.75000 1.479110 37.217460 0.125543
4.150767 6.266927 300.194857
1.00000 1.479110 37.217460 0.125543
4.150767 6.243436 346.046447

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.479110 -37.217460 -0.125543
-3.178038 -5.533623 -162.640085
0.25000 -1.479110 -37.217460 -0.125543
-3.178038 -5.378954 -208.491676
0.50000 -1.479110 -37.217460 -0.125543
-3.178038 -5.224286 -254.343266
0.75000 -1.479110 -37.217460 -0.125543
-3.178038 -5.069617 -300.194857
1.00000 -1.479110 -37.217460 -0.125543
-3.178038 -4.914949 -346.046447
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
258

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 109 ========== LENGTH = 4.928916

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.668360 14.531688 -0.526834
-2.783379 -5.056437 -135.921093
0.25000 -1.668360 14.531688 -0.526834
-2.783379 -4.407257 -153.827458
0.50000 -1.668360 14.531688 -0.526834
-2.783379 -3.758076 -171.733823
0.75000 -1.668360 14.531688 -0.526834
-2.783379 -3.108896 -189.640188
1.00000 -1.668360 14.531688 -0.526834
-2.783379 -2.459716 -207.546554

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 2.079976 -30.694355 0.734278
-0.270252 7.967086 285.038740
0.25000 2.079976 -30.694355 0.734278
-0.270252 7.062288 322.861211
0.50000 2.079976 -30.694355 0.734278
-0.270252 6.157489 360.683682
0.75000 2.079976 -30.694355 0.734278
-0.270252 5.252691 398.506153
1.00000 2.079976 -30.694355 0.734278
-0.270252 4.347893 436.328624

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.542296 20.921124 -0.150065
3.279716 -1.996225 -193.555246
0.25000 -0.542296 20.921124 -0.150065
3.279716 -1.811310 -219.334860
0.50000 -0.542296 20.921124 -0.150065
3.279716 -1.626395 -245.114474
0.75000 -0.542296 20.921124 -0.150065
3.279716 -1.441481 -270.894088
1.00000 -0.542296 20.921124 -0.150065
3.279716 -1.256566 -296.673702

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.165147 -6.194164 -0.082032
-0.303597 -1.150786 57.844000
0.25000 0.165147 -6.194164 -0.082032
-0.303597 -1.049704 65.476627
0.50000 0.165147 -6.194164 -0.082032
-0.303597 -0.948622 73.109255
0.75000 0.165147 -6.194164 -0.082032
-0.303597 -0.847540 80.741883
1.00000 0.165147 -6.194164 -0.082032
-0.303597 -0.746458 88.374511

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.036513 1.764059 0.033601
0.112583 0.287786 -16.469543
0.25000 -0.036513 1.764059 0.033601
0.112583 0.246382 -18.643268
0.50000 -0.036513 1.764059 0.033601
0.112583 0.204978 -20.816992
0.75000 -0.036513 1.764059 0.033601
0.112583 0.163574 -22.990716
1.00000 -0.036513 1.764059 0.033601
0.112583 0.122170 -25.164440

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.002045 -0.328352 -0.008947
-0.035070 -0.051424 3.063142
0.25000 0.002045 -0.328352 -0.008947
-0.035070 -0.040398 3.467747
0.50000 0.002045 -0.328352 -0.008947
-0.035070 -0.029373 3.872352
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
259

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 0.002045 -0.328352 -0.008947
-0.035070 -0.018348 4.276957
1.00000 0.002045 -0.328352 -0.008947
-0.035070 -0.007323 4.681561

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -2.247168 37.216871 -0.643299
0.608919 -6.764876 -345.945882
0.25000 -2.247168 37.216871 -0.643299
0.608919 -5.972185 -391.805585
0.50000 -2.247168 37.216871 -0.643299
0.608919 -5.179494 -437.665289
0.75000 -2.247168 37.216871 -0.643299
0.608919 -4.386803 -483.524993
1.00000 -2.247168 37.216871 -0.643299
0.608919 -3.594112 -529.384696

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 2.247168 -37.216871 0.643299
-0.608919 6.764876 345.945882
0.25000 2.247168 -37.216871 0.643299
-0.608919 5.972185 391.805585
0.50000 2.247168 -37.216871 0.643299
-0.608919 5.179494 437.665289
0.75000 2.247168 -37.216871 0.643299
-0.608919 4.386803 483.524993
1.00000 2.247168 -37.216871 0.643299
-0.608919 3.594112 529.384696

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.247168 37.216871 0.734278
3.279716 7.967086 345.945882
0.25000 2.247168 37.216871 0.734278
3.279716 7.062288 391.805585
0.50000 2.247168 37.216871 0.734278
3.279716 6.157489 437.665289
0.75000 2.247168 37.216871 0.734278
3.279716 5.252691 483.524993
1.00000 2.247168 37.216871 0.734278
3.279716 4.347893 529.384696

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.247168 -37.216871 -0.643299
-2.783379 -6.764876 -345.945882
0.25000 -2.247168 -37.216871 -0.643299
-2.783379 -5.972185 -391.805585
0.50000 -2.247168 -37.216871 -0.643299
-2.783379 -5.179494 -437.665289
0.75000 -2.247168 -37.216871 -0.643299
-2.783379 -4.386803 -483.524993
1.00000 -2.247168 -37.216871 -0.643299
-2.783379 -3.594112 -529.384696

ELEM 110 ========== LENGTH = 4.928344

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -2.231879 14.527901 -0.631577
-4.138855 -3.581331 -207.449267
0.25000 -2.231879 14.527901 -0.631577
-4.138855 -3.035573 -225.348889
0.50000 -2.231879 14.527901 -0.631577
-4.138855 -2.257416 -243.248511
0.75000 -2.231879 14.527901 -0.631577
-4.138855 -1.479258 -261.148133
1.00000 -2.231879 14.527901 -0.631577
-4.138855 -0.701100 -279.047755
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
260

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 2.755825 -30.686810 0.914886
2.285259 5.970756 436.226731
0.25000 2.755825 -30.686810 0.914886
2.285259 4.843538 474.035517
0.50000 2.755825 -30.686810 0.914886
2.285259 3.716321 511.844303
0.75000 2.755825 -30.686810 0.914886
2.285259 2.589103 549.653088
1.00000 2.755825 -30.686810 0.914886
2.285259 1.461885 587.461874

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.686326 20.949430 -0.182524
2.060494 -1.602571 -296.665514
0.25000 -0.686326 20.949430 -0.182524
2.060494 -1.377685 -322.477011
0.50000 -0.686326 20.949430 -0.182524
2.060494 -1.152799 -348.288509
0.75000 -0.686326 20.949430 -0.182524
2.060494 -0.927914 -374.100006
1.00000 -0.686326 20.949430 -0.182524
2.060494 -0.703028 -399.911504

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.204750 -6.235608 -0.138534
-0.277577 -0.649928 88.370121
0.25000 0.204750 -6.235608 -0.138534
-0.277577 -0.479242 96.052926
0.50000 0.204750 -6.235608 -0.138534
-0.277577 -0.308557 103.735730
0.75000 0.204750 -6.235608 -0.138534
-0.277577 -0.137872 111.418534
1.00000 0.204750 -6.235608 -0.138534
-0.277577 0.032814 119.101338

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.044195 1.774911 0.049648
0.101592 0.103246 -25.163817
0.25000 -0.044195 1.774911 0.049648
0.101592 0.042076 -27.350660
0.50000 -0.044195 1.774911 0.049648
0.101592 -0.019094 -29.537503
0.75000 -0.044195 1.774911 0.049648
0.101592 -0.080264 -31.724346
1.00000 -0.044195 1.774911 0.049648
0.101592 -0.141435 -33.911189

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.001824 -0.329825 -0.011898
-0.030914 -0.007773 4.681744
0.25000 0.001824 -0.329825 -0.011898
-0.030914 0.006886 5.088117
0.50000 0.001824 -0.329825 -0.011898
-0.030914 0.021546 5.494490
0.75000 0.001824 -0.329825 -0.011898
-0.030914 0.036205 5.900863
1.00000 0.001824 -0.329825 -0.011898
-0.030914 0.050865 6.307235

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -2.962399 37.252243 -0.764454
-1.976768 -5.313055 -529.278597
0.25000 -2.962399 37.252243 -0.764454
-1.976768 -4.371182 -575.176560
0.50000 -2.962399 37.252243 -0.764454
-1.976768 -3.429309 -621.074522
0.75000 -2.962399 37.252243 -0.764454
-1.976768 -2.487436 -666.972485
1.00000 -2.962399 37.252243 -0.764454
-1.976768 -1.545563 -712.870448
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
261

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 2.962399 -37.252243 0.764454
1.976768 5.313055 529.278597
0.25000 2.962399 -37.252243 0.764454
1.976768 4.371182 575.176560
0.50000 2.962399 -37.252243 0.764454
1.976768 3.429309 621.074522
0.75000 2.962399 -37.252243 0.764454
1.976768 2.487436 666.972485
1.00000 2.962399 -37.252243 0.764454
1.976768 1.545563 712.870448

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 2.962399 37.252243 0.914886
2.285259 5.970756 529.278597
0.25000 2.962399 37.252243 0.914886
2.285259 4.843538 575.176560
0.50000 2.962399 37.252243 0.914886
2.285259 3.716321 621.074522
0.75000 2.962399 37.252243 0.914886
2.285259 2.589103 666.972485
1.00000 2.962399 37.252243 0.914886
2.285259 1.545563 712.870448

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -2.962399 -37.252243 -0.764454
-4.138855 -5.313055 -529.278597
0.25000 -2.962399 -37.252243 -0.764454
-4.138855 -4.371182 -575.176560
0.50000 -2.962399 -37.252243 -0.764454
-4.138855 -3.429309 -621.074522
0.75000 -2.962399 -37.252243 -0.764454
-4.138855 -2.487436 -666.972485
1.00000 -2.962399 -37.252243 -0.764454
-4.138855 -1.545563 -712.870448

ELEM 111 ========== LENGTH = 4.927671

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -2.765894 14.634996 -0.529586
-5.291301 -1.982996 -278.947076
0.25000 -2.765894 14.634996 -0.529586
-5.291301 -1.330590 -296.976188
0.50000 -2.765894 14.634996 -0.529586
-5.291301 -0.678184 -315.005301
0.75000 -2.765894 14.634996 -0.529586
-5.291301 -0.025779 -333.034414
1.00000 -2.765894 14.634996 -0.529586
-5.291301 0.626627 -351.063526

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 3.366520 -30.873407 0.739536
4.687670 2.926165 587.356603
0.25000 3.366520 -30.873407 0.739536
4.687670 2.015117 625.390104
0.50000 3.366520 -30.873407 0.739536
4.687670 1.104069 663.423605
0.75000 3.366520 -30.873407 0.739536
4.687670 0.193021 701.457106
1.00000 3.366520 -30.873407 0.739536
4.687670 -0.718027 739.490607

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.782642 21.053393 -0.139382
0.533792 -0.933726 -399.904413
0.25000 -0.782642 21.053393 -0.139382
0.533792 -0.762020 -425.840463
0.50000 -0.782642 21.053393 -0.139382
0.533792 -0.590313 -451.776514
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
262

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.782642 21.053393 -0.139382
0.533792 -0.418606 -477.712564
1.00000 -0.782642 21.053393 -0.139382
0.533792 -0.246899 -503.648615

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.228760 -6.266735 -0.099173
0.085328 0.092073 119.098337
0.25000 0.228760 -6.266735 -0.099173
0.085328 0.214246 126.818440
0.50000 0.228760 -6.266735 -0.099173
0.085328 0.336418 134.538543
0.75000 0.228760 -6.266735 -0.099173
0.085328 0.458590 142.258646
1.00000 0.228760 -6.266735 -0.099173
0.085328 0.580763 149.978749

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.047586 1.781573 0.038000
-0.010722 -0.150111 -33.910915
0.25000 -0.047586 1.781573 0.038000
-0.010722 -0.196924 -36.105667
0.50000 -0.047586 1.781573 0.038000
-0.010722 -0.243737 -38.300419
0.75000 -0.047586 1.781573 0.038000
-0.010722 -0.290550 -40.495171
1.00000 -0.047586 1.781573 0.038000
-0.010722 -0.337363 -42.689922

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.000842 -0.329820 -0.009396
-0.004768 0.048596 6.307463
0.25000 0.000842 -0.329820 -0.009396
-0.004768 0.060172 6.713774
0.50000 0.000842 -0.329820 -0.009396
-0.004768 0.071747 7.120085
0.75000 0.000842 -0.329820 -0.009396
-0.004768 0.083323 7.526396
1.00000 0.000842 -0.329820 -0.009396
-0.004768 0.094898 7.932707

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 3.596123 -37.469962 0.630967
4.768231 3.066834 712.762403
0.25000 3.596123 -37.469962 0.630967
4.768231 2.289534 758.922318
0.50000 3.596123 -37.469962 0.630967
4.768231 1.512234 805.082233
0.75000 3.596123 -37.469962 0.630967
4.768231 0.734934 851.242148
1.00000 3.596123 -37.469962 0.630967
4.768231 -0.042366 897.402063

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 3.596123 -37.469962 0.630967
4.768231 3.066834 712.762403
0.25000 3.596123 -37.469962 0.630967
4.768231 2.289534 758.922318
0.50000 3.596123 -37.469962 0.630967
4.768231 1.512234 805.082233
0.75000 3.596123 -37.469962 0.630967
4.768231 0.734934 851.242148
1.00000 3.596123 -37.469962 0.630967
4.768231 -0.042366 897.402063

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 3.596123 37.469962 0.739536
4.768231 3.066834 712.762403
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
263

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 3.596123 37.469962 0.739536
4.768231 2.289534 758.922318
0.50000 3.596123 37.469962 0.739536
4.768231 1.512234 805.082233
0.75000 3.596123 37.469962 0.739536
4.768231 0.734934 851.242148
1.00000 3.596123 37.469962 0.739536
4.768231 0.626627 897.402063

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -3.596123 -37.469962 -0.630967
-5.291301 -3.066834 -712.762403
0.25000 -3.596123 -37.469962 -0.630967

```
-5.291301   -2.289534  -758.922318
 0.50000    -3.596123   -37.469962    -0.630967
-5.291301   -1.512234  -805.082233
 0.75000    -3.596123   -37.469962    -0.630967
-5.291301   -0.734934  -851.242148
 1.00000    -3.596123   -37.469962    -0.630967
-5.291301   -0.718027  -897.402063

ELEM      112 ================== LENGTH
=     4.928122

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -3.256481   14.905713   -0.400584
-6.125539   -0.551647  -350.963727
 0.25000   -3.256481   14.905713   -0.400584
-6.125539   -0.058115  -369.328019
 0.50000   -3.256481   14.905713   -0.400584
-6.125539    0.435417  -387.692311
 0.75000   -3.256481   14.905713   -0.400584
-6.125539    0.928949  -406.056603
 1.00000   -3.256481   14.905713   -0.400584
-6.125539    1.422481  -424.420895

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    3.884614   -31.384448    0.523107
 6.570973    0.524685  739.387266
 0.25000    3.884614   -31.384448    0.523107
 6.570973   -0.119799  778.053862
 0.50000    3.884614   -31.384448    0.523107
 6.570973   -0.764283  816.720457
 0.75000    3.884614   -31.384448    0.523107
 6.570973   -1.408767  855.387053
 1.00000    3.884614   -31.384448    0.523107
 6.570973   -2.053251  894.053649

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.815367   21.327138   -0.097401
-0.933158   -0.324502  -503.642843
 0.25000   -0.815367   21.327138   -0.097401
-0.933158   -0.204502  -529.918527
 0.50000   -0.815367   21.327138   -0.097401
-0.933158   -0.084501  -556.194210
 0.75000   -0.815367   21.327138   -0.097401
-0.933158    0.035499  -582.469893
 1.00000   -0.815367   21.327138   -0.097401
-0.933158    0.155500  -608.745577

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.234155   -6.308870   -0.040105
 0.634199    0.594648  149.976058
 0.25000    0.234155   -6.308870   -0.040105
 0.634199    0.644059  157.748779
 0.50000    0.234155   -6.308870   -0.040105
 0.634199    0.693470  165.521499
 0.75000    0.234155   -6.308870   -0.040105
 0.634199    0.742881  173.294220
 1.00000    0.234155   -6.308870   -0.040105
 0.634199    0.792292  181.066940
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    264

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.045897    1.789365    0.020957
-0.183340   -0.333644  -42.689645
 0.25000   -0.045897    1.789365    0.020957
-0.183340   -0.359463  -44.894197
 0.50000   -0.045897    1.789365    0.020957
-0.183340   -0.385283  -47.098749
 0.75000   -0.045897    1.789365    0.020957
-0.183340   -0.411102  -49.303301
 1.00000   -0.045897    1.789365    0.020957
-0.183340   -0.436921  -51.507853

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.001024   -0.328897   -0.005974
 0.036866    0.090460    7.932891
 0.25000   -0.001024   -0.328897   -0.005974
 0.036866    0.097820    8.338102
 0.50000   -0.001024   -0.328897   -0.005974
 0.036866    0.105180    8.743313
 0.75000   -0.001024   -0.328897   -0.005974
 0.036866    0.112541    9.148524
 1.00000   -0.001024   -0.328897   -0.005974
 0.036866    0.119901    9.553735

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.117745   38.022215   -0.477028
-7.242037   -1.209794  -897.296215
 0.25000   -4.117745   38.022215   -0.477028
-7.242037   -0.622080  -944.140743
 0.50000   -4.117745   38.022215   -0.477028
-7.242037   -0.034367  -990.985270
 0.75000   -4.117745   38.022215   -0.477028
-7.242037    0.553346  -1037.830
 1.00000   -4.117745   38.022215   -0.477028
-7.242037    1.141059  -1084.674

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.117745   -38.022215    0.477028
 7.242037    1.209794  897.296215
 0.25000    4.117745   -38.022215    0.477028
 7.242037    0.622080  944.140743
 0.50000    4.117745   -38.022215    0.477028
 7.242037    0.034367  990.985270
 0.75000    4.117745   -38.022215    0.477028
 7.242037   -0.553346  1037.830
 1.00000    4.117745   -38.022215    0.477028
 7.242037   -1.141059  1084.674

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.117745   38.022215    0.523107
 7.242037    1.209794  897.296215
 0.25000    4.117745   38.022215    0.523107
 7.242037    0.622080  944.140743
 0.50000    4.117745   38.022215    0.523107
 7.242037    0.693470  990.985270
 0.75000    4.117745   38.022215    0.523107
 7.242037    0.928949  1037.830
 1.00000    4.117745   38.022215    0.523107
 7.242037    1.422481  1084.674

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.117745   -38.022215   -0.477028
-7.242037   -1.209794  -897.296215
 0.25000   -4.117745   -38.022215   -0.477028
-7.242037   -0.622080  -944.140743
 0.50000   -4.117745   -38.022215   -0.477028
-7.242037   -0.764283  -990.985270
 0.75000   -4.117745   -38.022215   -0.477028
-7.242037   -1.408767  -1037.830
 1.00000   -4.117745   -38.022215   -0.477028
-7.242037   -2.053251  -1084.674
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    265

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      113 ================== LENGTH
=     4.928795

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -3.694551   15.381158   -0.336538
-6.464468    0.369996  -424.326738
 0.25000   -3.694551   15.381158   -0.336538
-6.464468    0.784679  -443.279380
 0.50000   -3.694551   15.381158   -0.336538
-6.464468    1.199361  -462.232023
 0.75000   -3.694551   15.381158   -0.336538
-6.464468    1.614043  -481.184666
 1.00000   -3.694551   15.381158   -0.336538
-6.464468    2.028725  -500.137308

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.290317   -32.315119    0.425937
 7.495642   -1.080023  893.960366
 0.25000    4.290317   -32.315119    0.425937
 7.495642   -1.604862  933.779013
 0.50000    4.290317   -32.315119    0.425937
 7.495642   -2.129701  973.597661
 0.75000    4.290317   -32.315119    0.425937
 7.495642   -2.654540  1013.416
 1.00000    4.290317   -32.315119    0.425937
 7.495642   -3.179379  1053.235

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.771493   21.832391   -0.096599
-1.990282    0.262375  -608.744524
 0.25000   -0.771493   21.832391   -0.096599
-1.990282    0.381405  -635.646367
 0.50000   -0.771493   21.832391   -0.096599
-1.990282    0.500434  -662.548210
 0.75000   -0.771493   21.832391   -0.096599
-1.990282    0.619464  -689.450053
 1.00000   -0.771493   21.832391   -0.096599
-1.990282    0.738494  -716.351897

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.217975   -6.371565    0.002344
 1.256108    0.753561  181.064582
 0.25000    0.217975   -6.371565    0.002344
 1.256108    0.750673  188.915616
 0.50000    0.217975   -6.371565    0.002344
 1.256108    0.747785  196.766650
 0.75000    0.217975   -6.371565    0.002344
 1.256108    0.744897  204.617685
 1.00000    0.217975   -6.371565    0.002344
 1.256108    0.742009  212.468719

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.038343    1.799622    0.008457
-0.388021   -0.418885  -51.507523
 0.25000   -0.038343    1.799622    0.008457
-0.388021   -0.429305  -53.725015
 0.50000   -0.038343    1.799622    0.008457
-0.388021   -0.439725  -55.942508
 0.75000   -0.038343    1.799622    0.008457
-0.388021   -0.450146  -58.160000
 1.00000   -0.038343    1.799622    0.008457
-0.388021   -0.460566  -60.377492

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.003904   -0.326487   -0.003600
 0.091021    0.112975    9.553837
 0.25000   -0.003904   -0.326487   -0.003600
 0.091021    0.117410    9.956134
 0.50000   -0.003904   -0.326487   -0.003600
 0.091021    0.121846   10.358430
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    266

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.75000   -0.003904   -0.326487   -0.003600
 0.091021    0.126281  10.760726
 1.00000   -0.003904   -0.326487   -0.003600
 0.091021    0.130716  11.163022

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.504387   39.013171   -0.424681
-8.842771    0.213486  -1084.579
 0.25000   -4.504387   39.013171   -0.424681
-8.842771    0.736778  -1132.651
 0.50000   -4.504387   39.013171   -0.424681
-8.842771    1.260070  -1180.723
 0.75000   -4.504387   39.013171   -0.424681
-8.842771    1.783362  -1228.795
 1.00000   -4.504387   39.013171   -0.424681
-8.842771    2.306653  -1276.867

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.504387   -39.013171    0.424681
 8.842771   -0.213486  1084.579
 0.25000    4.504387   -39.013171    0.424681
 8.842771   -0.736778  1132.651
 0.50000    4.504387   -39.013171    0.424681
 8.842771   -1.260070  1180.723
 0.75000    4.504387   -39.013171    0.424681
 8.842771   -1.783362  1228.795
 1.00000    4.504387   -39.013171    0.424681
 8.842771   -2.306653  1276.867

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.504387   39.013171    0.425937
 8.842771    0.753561  1084.579
 0.25000    4.504387   39.013171    0.425937
 8.842771    0.784679  1132.651
 0.50000    4.504387   39.013171    0.425937
 8.842771    1.260070  1180.723
 0.75000    4.504387   39.013171    0.425937
 8.842771    1.783362  1228.795
 1.00000    4.504387   39.013171    0.425937
 8.842771    2.306653  1276.867

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.504387   -39.013171   -0.424681
-8.842771   -1.080023  -1084.579
 0.25000   -4.504387   -39.013171   -0.424681
-8.842771   -1.604862  -1132.651
 0.50000   -4.504387   -39.013171   -0.424681
-8.842771   -2.129701  -1180.723
 0.75000   -4.504387   -39.013171   -0.424681
-8.842771   -2.654540  -1228.795
 1.00000   -4.504387   -39.013171   -0.424681
-8.842771   -3.179379  -1276.867

ELEM      114 ================== LENGTH
=     4.927594

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.070223   16.183482   -0.317290
-6.080982    1.125970  -500.052697
 0.25000   -4.070223   16.183482   -0.317290
-6.080982    1.516839  -519.989105
 0.50000   -4.070223   16.183482   -0.317290
-6.080982    1.907708  -539.925513
 0.75000   -4.070223   16.183482   -0.317290
-6.080982    2.298577  -559.861921
 1.00000   -4.070223   16.183482   -0.317290
-6.080982    2.689446  -579.798329
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    267

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.564575   -33.930332    0.396187
 6.937297   -2.522176  1053.160
 0.25000    4.564575   -33.930332    0.396187
 6.937297   -3.010239  1094.959
 0.50000    4.564575   -33.930332    0.396187
 6.937297   -3.498301  1136.758
 0.75000    4.564575   -33.930332    0.396187
 6.937297   -3.986364  1178.557
 1.00000    4.564575   -33.930332    0.396187
 6.937297   -4.474426  1220.355

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.639412   22.728206   -0.099669
-2.311259   1.058176  -716.360527
 0.25000   -0.639412   22.728206   -0.099669
-2.311259   1.180958  -744.359371
 0.50000   -0.639412   22.728206   -0.099669
-2.311259   1.303740  -772.358215
 0.75000   -0.639412   22.728206   -0.099669
-2.311259   1.426522  -800.357060
 1.00000   -0.639412   22.728206   -0.099669
-2.311259   1.549303  -828.355904

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.177097   -6.475399    0.022526
 1.915108    0.643317  212.466900
 0.25000    0.177097   -6.475399    0.022526
 1.915108    0.615568  220.443935
 0.50000    0.177097   -6.475399    0.022526
 1.915108    0.587818  228.420969
 0.75000    0.177097   -6.475399    0.022526
 1.915108    0.560069  236.398004
 1.00000    0.177097   -6.475399    0.022526
 1.915108    0.532320  244.375039

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.024119    1.815860   -6.56E-05
-0.621134   -0.426299  -60.377085
 0.25000   -0.024119    1.815860   -6.56E-05
-0.621134   -0.426219  -62.614039
 0.50000   -0.024119    1.815860   -6.56E-05
-0.621134   -0.426138  -64.850994
 0.75000   -0.024119    1.815860   -6.56E-05
-0.621134   -0.426057  -67.087949
 1.00000   -0.024119    1.815860   -6.56E-05
-0.621134   -0.425976  -69.324904

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.007919   -0.321817   -0.001689
 0.160970    0.121013  11.162990
 0.25000   -0.007919   -0.321817   -0.001689
 0.160970    0.123093  11.559435
 0.50000   -0.007919   -0.321817   -0.001689
 0.160970    0.125173  11.955881
 0.75000   -0.007919   -0.321817   -0.001689
 0.160970    0.127254  12.352326
 1.00000   -0.007919   -0.321817   -0.001689
 0.160970    0.129334  12.748772

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.733754   40.727548   -0.417024
-9.013375   1.757846  -1276.790
 0.25000   -4.733754   40.727548   -0.417024
-9.013375   2.271578  -1326.963
 0.50000   -4.733754   40.727548   -0.417024
-9.013375   2.785310  -1377.135
 0.75000   -4.733754   40.727548   -0.417024
-9.013375   3.299041  -1427.307
 1.00000   -4.733754   40.727548   -0.417024
-9.013375   3.812773  -1477.479
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    268

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.733754   -40.727548    0.417024
 9.013375   -1.757846  1276.790
 0.25000    4.733754   -40.727548    0.417024
 9.013375   -2.271578  1326.963
 0.50000    4.733754   -40.727548    0.417024
 9.013375   -2.785310  1377.135
 0.75000    4.733754   -40.727548    0.417024
 9.013375   -3.299041  1427.307
 1.00000    4.733754   -40.727548    0.417024
 9.013375   -3.812773  1477.479

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.733754   40.727548    0.417024
 9.013375   1.757846  1276.790
 0.25000    4.733754   40.727548    0.417024
 9.013375   2.271578  1326.963
 0.50000    4.733754   40.727548    0.417024
 9.013375   2.785310  1377.135
 0.75000    4.733754   40.727548    0.417024
 9.013375   3.299041  1427.307
 1.00000    4.733754   40.727548    0.417024
 9.013375   3.812773  1477.479

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.733754   -40.727548   -0.417024
-9.013375   -2.522176  -1276.790
 0.25000   -4.733754   -40.727548   -0.417024
-9.013375   -3.010239  -1326.963
 0.50000   -4.733754   -40.727548   -0.417024
-9.013375   -3.498301  -1377.135
 0.75000   -4.733754   -40.727548   -0.417024
-9.013375   -3.986364  -1427.307
 1.00000   -4.733754   -40.727548   -0.417024
-9.013375   -4.474426  -1477.479

ELEM      115 ================== LENGTH
=     4.928335

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.378375   17.421109   -0.225358
-4.932918    1.948919  -579.724957
 0.25000   -4.378375   17.421109   -0.225358
-4.932918    2.226579  -601.189224
 0.50000   -4.378375   17.421109   -0.225358
-4.932918    2.504240  -622.653491
 0.75000   -4.378375   17.421109   -0.225358
-4.932918    2.781900  -644.117758
 1.00000   -4.378375   17.421109   -0.225358
-4.932918    3.059560  -665.582024

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.696817   -36.444306    0.212424
 4.842604   -4.159060  1220.306
 0.25000    4.696817   -36.444306    0.212424
 4.842604   -4.420785  1265.208
 0.50000    4.696817   -36.444306    0.212424
 4.842604   -4.682510  1310.110
 0.75000    4.696817   -36.444306    0.212424
 4.842604   -4.944234  1355.013
 1.00000    4.696817   -36.444306    0.212424
 4.842604   -5.205959  1399.915

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.412178   24.122379   -0.000213
-1.950003    2.098626  -828.377730
 0.25000   -0.412178   24.122379   -0.000213
-1.950003    2.098887  -858.098523
 0.50000   -0.412178   24.122379   -0.000213
-1.950003    2.099149  -887.819317
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    269

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.75000   -0.412178   24.122379   -0.000213
-1.950003    2.099411  -917.540110
 1.00000   -0.412178   24.122379   -0.000213
-1.950003    2.099673  -947.260903

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.109609   -6.622087    0.019521
 2.698064    0.369125  244.372587
 0.25000    0.109609   -6.622087    0.019521
 2.698064    0.345074  252.531554
 0.50000    0.109609   -6.622087    0.019521
 2.698064    0.321023  260.690520
 0.75000    0.109609   -6.622087    0.019521
 2.698064    0.296971  268.849486
 1.00000    0.109609   -6.622087    0.019521
 2.698064    0.272920  277.008453

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.002750    1.835925   -0.007939
-0.913730   -0.374310  -69.323926
 0.25000   -0.002750    1.835925   -0.007939
-0.913730   -0.364528  -71.585639
 0.50000   -0.002750    1.835925   -0.007939
-0.913730   -0.354747  -73.847952
 0.75000   -0.002750    1.835925   -0.007939
-0.913730   -0.344965  -76.109966
 1.00000   -0.002750    1.835925   -0.007939
-0.913730   -0.335183  -78.371979

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.013122   -0.313019    0.001565
 0.255983    0.116701  12.749220
 0.25000   -0.013122   -0.313019    0.001565
 0.255983    0.114773  13.134086
 0.50000   -0.013122   -0.313019    0.001565
 0.255983    0.112845  13.519752
 0.75000   -0.013122   -0.313019    0.001565
 0.255983    0.110917  13.905417
 1.00000   -0.013122   -0.313019    0.001565
 0.255983    0.108989  14.291083

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.793303   43.379412   -0.233510
-7.796651   3.673234  -1477.427
 0.25000   -4.793303   43.379412   -0.233510
-7.796651   3.960938  -1530.874
 0.50000   -4.793303   43.379412   -0.233510
-7.796651   4.248642  -1584.321
 0.75000   -4.793303   43.379412   -0.233510
-7.796651   4.536346  -1637.768
 1.00000   -4.793303   43.379412   -0.233510
-7.796651   4.824051  -1691.215

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.793303   -43.379412    0.233510
 7.796651   -3.673234  1477.427
 0.25000    4.793303   -43.379412    0.233510
 7.796651   -3.960938  1530.874
 0.50000    4.793303   -43.379412    0.233510
 7.796651   -4.248642  1584.321
 0.75000    4.793303   -43.379412    0.233510
 7.796651   -4.536346  1637.768
 1.00000    4.793303   -43.379412    0.233510
 7.796651   -4.824051  1691.215

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    4.793303   43.379412    0.233510
 7.796651   3.673234  1477.427
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    270

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.25000    4.793303   43.379412    0.233510
 7.796651   3.960938  1530.874
 0.50000    4.793303   43.379412    0.233510
 7.796651   4.248642  1584.321
```

```
 0.75000     4.793303    43.379412     0.233510
 7.796651    4.536346     1637.768
 1.00000     4.793303    43.379412     0.233510
 7.796651    4.824051     1691.215

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.793303   -43.379412   -0.233510
-7.796651    -4.159060   -1477.427
 0.25000    -4.793303   -43.379412   -0.233510
-7.796651    -4.420785    -1530.874
 0.50000    -4.793303   -43.379412   -0.233510
-7.796651    -4.682510    -1584.321
 0.75000    -4.793303   -43.379412   -0.233510
-7.796651    -4.944234    -1637.768
 1.00000    -4.793303   -43.379412   -0.233510
-7.796651    -5.205959    -1691.215

ELEM      116 ================== LENGTH
=     3.450058

LOAD     -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.635448   -19.388982   -0.014845
-2.042611     2.450053    -665.529524
 0.25000    -4.635448   -19.388982   -0.014845
-2.042611     2.462857    -648.806248
 0.50000    -4.635448   -19.388982   -0.014845
-2.042611     2.475661    -632.082972
 0.75000    -4.635448   -19.388982   -0.014845
-2.042611     2.488465    -615.359697
 1.00000    -4.635448   -19.388982   -0.014845
-2.042611     2.501268    -598.636421

LOAD     -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.684318    49.750950   -0.161225
-0.599490    -5.236501    1399.904
 0.25000     4.684318    49.750950   -0.161225
-0.599490    -5.097442    1356.993
 0.50000     4.684318    49.750950   -0.161225
-0.599490    -4.958383    1314.082
 0.75000     4.684318    49.750950   -0.161225
-0.599490    -4.819323    1271.171
 1.00000     4.684318    49.750950   -0.161225
-0.599490    -4.680264    1228.260

LOAD     -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.065160   -48.239299    0.180600
 0.404600    2.923882    -947.304306
 0.25000    -0.065160   -48.239299    0.180600
 0.404600    2.768112    -905.697216
 0.50000    -0.065160   -48.239299    0.180600
 0.404600    2.612341    -864.090127
 0.75000    -0.065160   -48.239299    0.180600
 0.404600    2.456571    -822.483038
 1.00000    -0.065160   -48.239299    0.180600
 0.404600    2.300801    -780.875949

LOAD     -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.008350    23.257034    0.006774
 2.982180    0.032156    277.011635
 0.25000     0.008350    23.257034    0.006774
 2.982180    0.026314    256.952108
 0.50000     0.008350    23.257034    0.006774
 2.982180    0.020472    236.892582
 0.75000     0.008350    23.257034    0.006774
 2.982180    0.014629    216.833056
 1.00000     0.008350    23.257034    0.006774
 2.982180    0.008787    196.773529
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 271

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.027938    -6.576312   -0.017938
-1.076905    -0.262132    -78.372483
 0.25000     0.027938    -6.576312   -0.017938
-1.076905    -0.146661    -72.700319
 0.50000     0.027938    -6.576312   -0.017938
-1.076905    -0.231189    -67.028155
 0.75000     0.027938    -6.576312   -0.017938
-1.076905    -0.215718    -61.355991
 1.00000     0.027938    -6.576312   -0.017938
-1.076905    -0.200246    -55.683827

LOAD     -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.019998     1.196609    0.006634
 0.332225    0.092541    14.290956
 0.25000    -0.019998     1.196609    0.006634
 0.332225    0.086820    13.258863
 0.50000    -0.019998     1.196609    0.006634
 0.332225    0.081098    12.226771
 0.75000    -0.019998     1.196609    0.006634
 0.332225    0.075376    11.194678
 1.00000    -0.019998     1.196609    0.006634
 0.332225    0.069654    10.162585

LOAD  -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.672670   -74.204593    0.147818
-2.714916     5.111803    -1691.206
 0.25000    -4.672670   -74.204593    0.147818
-2.714916     4.984308    -1627.204
 0.50000    -4.672670   -74.204593    0.147818
-2.714916     4.856813    -1563.201
 0.75000    -4.672670   -74.204593    0.147818
-2.714916     4.729318    -1499.199
 1.00000    -4.672670   -74.204593    0.147818
-2.714916     4.601823    -1435.196

LOAD  -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.672670    74.204593   -0.147818
 2.714916   -5.111803     1691.206
 0.25000     4.672670    74.204593   -0.147818
 2.714916   -4.984308     1627.204
 0.50000     4.672670    74.204593   -0.147818
 2.714916   -4.856813     1563.201
 0.75000     4.672670    74.204593   -0.147818
 2.714916   -4.729318     1499.199
 1.00000     4.672670    74.204593   -0.147818
 2.714916   -4.601823     1435.196

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.684318    74.204593    0.180600
 2.982180    5.111803     1691.206
 0.25000     4.684318    74.204593    0.180600
 2.982180    4.984308     1627.204
 0.50000     4.684318    74.204593    0.180600
 2.982180    4.856813     1563.201
 0.75000     4.684318    74.204593    0.180600
 2.982180    4.729318     1499.199
 1.00000     4.684318    74.204593    0.180600
 2.982180    4.601823     1435.196

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.672670   -74.204593   -0.161225
-2.714916    -5.236501    -1691.206
 0.25000    -4.672670   -74.204593   -0.161225
-2.714916    -5.097442    -1627.204
 0.50000    -4.672670   -74.204593   -0.161225
-2.714916    -4.958383    -1563.201
 0.75000    -4.672670   -74.204593   -0.161225
-2.714916    -4.819323    -1499.199
 1.00000    -4.672670   -74.204593   -0.161225
-2.714916    -4.680264    -1435.196
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 272

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      117 ================== LENGTH
=     4.928060

LOAD     -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.840935   -18.046684    0.070330
-0.189646     2.012657    -598.603682
 0.25000    -4.840935   -18.046684    0.070330
-0.189646     1.926009    -576.369895
 0.50000    -4.840935   -18.046684    0.070330
-0.189646     1.839362    -554.136108
 0.75000    -4.840935   -18.046684    0.070330
-0.189646     1.752715    -531.902321
 1.00000    -4.840935   -18.046684    0.070330
-0.189646     1.666068    -509.668534

LOAD     -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.561823    47.147929   -0.396385
-3.898182    -4.967739    1228.291
 0.25000     4.561823    47.147929   -0.396385
-3.898182    -4.479387    1170.204
 0.50000     4.561823    47.147929   -0.396385
-3.898182    -3.991034    1112.117
 0.75000     4.561823    47.147929   -0.396385
-3.898182    -3.502681    1054.030
 1.00000     4.561823    47.147929   -0.396385
-3.898182    -3.014328    995.942698

LOAD     -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.354996   -46.811816    0.360169
 1.710940    3.295660    -780.941989
 0.25000     0.354996   -46.811816    0.360169
 1.710940    2.851926    -723.269124
 0.50000     0.354996   -46.811816    0.360169
 1.710940    2.408192    -665.596260
 0.75000     0.354996   -46.811816    0.360169
 1.710940    1.964458    -607.923395
 1.00000     0.354996   -46.811816    0.360169
 1.710940    1.520724    -550.250530

LOAD     -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.111906    23.045200   -0.023839
 3.178393   -0.276727    196.776918
 0.25000    -0.111906    23.045200   -0.023839
 3.178393   -0.247357    168.384882
 0.50000    -0.111906    23.045200   -0.023839
 3.178393   -0.217986    139.992847
 0.75000    -0.111906    23.045200   -0.023839
 3.178393   -0.188616    111.600811
 1.00000    -0.111906    23.045200   -0.023839
 3.178393   -0.159245    83.208776

LOAD     -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.063712    -6.533035   -0.018693
-1.184253    -0.115061    -55.683858
 0.25000     0.063712    -6.533035   -0.018693
-1.184253    -0.070231    -47.635060
 0.50000     0.063712    -6.533035   -0.018693
-1.184253    -0.069001    -39.586261
 0.75000     0.063712    -6.533035   -0.018693
-1.184253    -0.045971    -31.537463
 1.00000     0.063712    -6.533035   -0.018693
-1.184253    -0.022941    -23.488665

LOAD     -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.027690     1.198405    0.008419
 0.382749    0.051211    10.162069
 0.25000    -0.027690     1.198405    0.008419
 0.382749    0.040839     8.685616
 0.50000    -0.027690     1.198405    0.008419
 0.382749    0.030467     7.209162
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 273

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.75000    -0.027690     1.198405    0.008419
 0.382749    0.020095    5.732709
 1.00000    -0.027690     1.198405    0.008419
 0.382749    0.009723    4.256255

LOAD  -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.422227   -71.391535    0.411806
 0.337041    5.193255    -1435.230
 0.25000    -4.422227   -71.391535    0.411806
 0.337041    4.685904    -1347.274
 0.50000    -4.422227   -71.391535    0.411806
 0.337041    4.178553    -1259.319
 0.75000    -4.422227   -71.391535    0.411806
 0.337041    3.671202    -1171.363
 1.00000    -4.422227   -71.391535    0.411806
 0.337041    3.163850    -1083.408

LOAD  -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.422227    71.391535   -0.411806
-0.337041   -5.193255     1435.230
 0.25000     4.422227    71.391535   -0.411806
-0.337041   -4.685904     1347.274
 0.50000     4.422227    71.391535   -0.411806
-0.337041   -4.178553     1259.319
 0.75000     4.422227    71.391535   -0.411806
-0.337041   -3.671202     1171.363
 1.00000     4.422227    71.391535   -0.411806
-0.337041   -3.163850     1083.408

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.561823    71.391535    0.411806
 3.178393    5.193255     1435.230
 0.25000     4.561823    71.391535    0.411806
 3.178393    4.685904     1347.274
 0.50000     4.561823    71.391535    0.411806
 3.178393    4.178553     1259.319
 0.75000     4.561823    71.391535    0.411806
 3.178393    3.671202     1171.363
 1.00000     4.561823    71.391535    0.411806
 3.178393    3.163850     1083.408

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.840935   -71.391535   -0.411806
-3.898182    -5.193255    -1435.230
 0.25000    -4.840935   -71.391535   -0.411806
-3.898182    -4.685904    -1347.274
 0.50000    -4.840935   -71.391535   -0.411806
-3.898182    -4.178553    -1259.319
 0.75000    -4.840935   -71.391535   -0.411806
-3.898182    -3.671202    -1171.363
 1.00000    -4.840935   -71.391535   -0.411806
-3.898182    -3.163850    -1083.408

ELEM      118 ================== LENGTH
=     4.928231

LOAD     -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.964253   -17.122266    0.076594
 0.474902    1.367202    -509.651594
 0.25000    -4.964253   -17.122266    0.076594
 0.474902    1.272834    -488.555971
 0.50000    -4.964253   -17.122266    0.076594
 0.474902    1.178466    -467.460348
 0.75000    -4.964253   -17.122266    0.076594
 0.474902    1.084098    -446.364726
 1.00000    -4.964253   -17.122266    0.076594
 0.474902    0.989730    -425.269103
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 274

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.310497    45.357899   -0.408537
-5.123003    -3.616391    996.002135
 0.25000     4.310497    45.357899   -0.408537
-5.123003    -3.112950    940.118580
 0.50000     4.310497    45.357899   -0.408537
-5.123003    -2.609609    884.235024
 0.75000     4.310497    45.357899   -0.408537
-5.123003    -2.106268    828.351469
 1.00000     4.310497    45.357899   -0.408537
-5.123003    -1.602927    772.467913

LOAD     -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.828158   -45.846624    0.371197
 2.270217    2.659248    -550.329055
 0.25000     0.828158   -45.846624    0.371197
 2.270217    2.201911    -493.843362
 0.50000     0.828158   -45.846624    0.371197
 2.270217    1.744575    -437.357668
 0.75000     0.828158   -45.846624    0.371197
 2.270217    1.287238    -380.871974
 1.00000     0.828158   -45.846624    0.371197
 2.270217    0.829902    -324.386281

LOAD     -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.240353    22.918862   -0.027275
 3.186414   -0.469276    83.211162
 0.25000    -0.240353    22.918862   -0.027275
 3.186414   -0.435672    54.973798
 0.50000    -0.240353    22.918862   -0.027275
 3.186414   -0.402068    26.736434
 0.75000    -0.240353    22.918862   -0.027275
 3.186414   -0.368464    -1.500930
 1.00000    -0.240353    22.918862   -0.027275
 3.186414   -0.334860    -29.738294

LOAD     -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.101416    -6.507843   -0.020906
-1.215048    0.068430    -23.488033
 0.25000     0.101416    -6.507843   -0.020906
-1.215048    0.094188    -15.469093
 0.50000     0.101416    -6.507843   -0.020906
-1.215048    0.119945    -7.451954
 0.75000     0.101416    -6.507843   -0.020906
-1.215048    0.145702    0.566085
 1.00000     0.101416    -6.507843   -0.020906
-1.215048    0.171460    8.584124

LOAD     -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.035466     1.199973    0.008926
 0.406518   -0.009313     4.255385
 0.25000    -0.035466     1.199973    0.008926
 0.406518   -0.020311     2.776949
 0.50000    -0.035466     1.199973    0.008926
 0.406518   -0.031309     1.298512
 0.75000    -0.035466     1.199973    0.008926
 0.406518   -0.042307    -0.179924
 1.00000    -0.035466     1.199973    0.008926
 0.406518   -0.053305    -1.658360

LOAD  -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.034678   -69.476734    0.426885
 1.530070    4.094880    -1083.469
 0.25000    -4.034678   -69.476734    0.426885
 1.530070    3.568933    -997.869326
 0.50000    -4.034678   -69.476734    0.426885
 1.530070    3.042986    -912.269971
 0.75000    -4.034678   -69.476734    0.426885
 1.530070    2.517039    -826.670615
 1.00000    -4.034678   -69.476734    0.426885
 1.530070    1.991091    -741.071259
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 275

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.034678    69.476734   -0.426885
-1.530070   -4.094880     1083.469
 0.25000     4.034678    69.476734   -0.426885
-1.530070   -3.568933     997.869326
 0.50000     4.034678    69.476734   -0.426885
-1.530070   -3.042986     912.269971
 0.75000     4.034678    69.476734   -0.426885
-1.530070   -2.517039     826.670615
 1.00000     4.034678    69.476734   -0.426885
-1.530070   -1.991091     741.071259

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     4.310497    69.476734    0.426885
 3.186414    4.094880     1083.469
 0.25000     4.310497    69.476734    0.426885
 3.186414    3.568933     997.869326
 0.50000     4.310497    69.476734    0.426885
 3.186414    3.042986     912.269971
 0.75000     4.310497    69.476734    0.426885
 3.186414    2.517039     828.351469
 1.00000     4.310497    69.476734    0.426885
 3.186414    1.991091     772.467913

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -4.964253   -69.476734   -0.426885
-5.123003    -4.094880    -1083.469
 0.25000    -4.964253   -69.476734   -0.426885
-5.123003    -3.568933    -997.869326
 0.50000    -4.964253   -69.476734   -0.426885
-5.123003    -3.042986    -912.269971
 0.75000    -4.964253   -69.476734   -0.426885
-5.123003    -2.517039    -826.670615
 1.00000    -4.964253   -69.476734   -0.426885
-5.123003    -1.991091    -741.071259

ELEM      119 ================== LENGTH
=     4.927598

LOAD     -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -5.027432   -16.612491    0.055033
 0.376154    0.836471    -425.261986
 0.25000    -5.027432   -16.612491    0.055033
 0.376154    0.768676    -404.797069
 0.50000    -5.027432   -16.612491    0.055033
 0.376154    0.700882    -384.332151
 0.75000    -5.027432   -16.612491    0.055033
 0.376154    0.633087    -363.867234
 1.00000    -5.027432   -16.612491    0.055033
 0.376154    0.565292    -343.402316

LOAD     -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     3.940410    44.383510   -0.369181
-5.092064    -2.491176    772.545959
 0.25000     3.940410    44.383510   -0.369181
-5.092064    -2.036381    717.869939
 0.50000     3.940410    44.383510   -0.369181
-5.092064    -1.581587    663.193920
 0.75000     3.940410    44.383510   -0.369181
-5.092064    -1.126793    608.517900
 1.00000     3.940410    44.383510   -0.369181
-5.092064    -0.671998    553.841880

LOAD     -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     1.363415   -45.330577    0.354368
 2.592005    2.117280    -324.475186
 0.25000     1.363415   -45.330577    0.354368
 2.592005    1.680734    -268.632476
 0.50000     1.363415   -45.330577    0.354368
 2.592005    1.244189    -212.789765
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 276

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.75000     1.363415   -45.330577    0.354368
 2.592005    0.807643    -156.947054
 1.00000     1.363415   -45.330577    0.354368
 2.592005    0.371098    -101.104344

LOAD     -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.373476    22.853118   -0.028280
 2.852826   -0.655870    -29.733801
 0.25000    -0.373476    22.853118   -0.028280
 2.852826   -0.621032    -57.886543
 0.50000    -0.373476    22.853118   -0.028280
 2.852826   -0.586194    -86.039285
 0.75000    -0.373476    22.853118   -0.028280
 2.852826   -0.551356    -114.192027
 1.00000    -0.373476    22.853118   -0.028280
 2.852826   -0.516518    -142.344769

LOAD     -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.140410    -6.492725   -0.019967
-1.120128    0.265867    8.584166
 0.25000     0.140410    -6.492725   -0.019967
-1.120128    0.290465    16.582550
 0.50000     0.140410    -6.492725   -0.019967
-1.120128    0.315062    24.580934
 0.75000     0.140410    -6.492725   -0.019967
-1.120128    0.339660    32.579318
 1.00000     0.140410    -6.492725   -0.019967
-1.120128    0.364258    40.577702

LOAD     -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.043328     1.199165    0.008028
 0.391207   -0.072573    -1.659151
 0.25000    -0.043328     1.199165    0.008028
 0.391207   -0.082462    -3.136402
 0.50000    -0.043328     1.199165    0.008028
 0.391207   -0.092352    -4.613652
 0.75000    -0.043328     1.199165    0.008028
 0.391207   -0.102241    -6.090903
 1.00000    -0.043328     1.199165    0.008028
 0.391207   -0.112131    -7.568153

LOAD  -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -3.523607   -68.435793    0.389433
 1.848031    3.219618    741.153096
 0.25000    -3.523607   -68.435793    0.389433
 1.848031    2.739875    656.846994
 0.50000    -3.523607   -68.435793    0.389433
 1.848031    2.260133    572.540982
 0.75000    -3.523607   -68.435793    0.389433
 1.848031    1.780390    488.234970
 1.00000    -3.523607   -68.435793    0.389433
 1.848031    1.300648    403.928958

LOAD  -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     3.523607    68.435793   -0.389433
-1.848031   -3.219618    741.153096
 0.25000     3.523607    68.435793   -0.389433
-1.848031   -2.739875    656.846994
 0.50000     3.523607    68.435793   -0.389433
-1.848031   -2.260133    572.540982
 0.75000     3.523607    68.435793   -0.389433
-1.848031   -1.780390    488.234970
 1.00000     3.523607    68.435793   -0.389433
-1.848031   -1.300648    403.928958

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     3.940410    68.435793    0.389433
 2.852826    3.219618    772.545959
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	3.940410	68.435793	0.389433
2.852826	2.739875	717.869939	
0.50000	3.940410	68.435793	0.389433
2.852826	2.260133	663.133920	
0.75000	3.940410	68.435793	0.389433
2.852826	1.780390	608.517900	
1.00000	3.940410	68.435793	0.389433
2.852826	1.300648	553.841880	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.027432	-68.435793	-0.389433
-5.092064	-3.219618	-741.153006	
0.25000	-5.027432	-68.435793	-0.389433
-5.092064	-2.739875	-656.846994	
0.50000	-5.027432	-68.435793	-0.389433
-5.092064	-2.260133	-572.540982	
0.75000	-5.027432	-68.435793	-0.389433
-5.092064	-1.780390	-488.234970	
1.00000	-5.027432	-68.435793	-0.389433
-5.092064	-1.300648	-403.928958	

ELEM 120 ========== LENGTH = 4.929017

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.036038	-16.290806	0.052449
-0.124828	0.543900	-343.401577	
0.25000	-5.036038	-16.290806	0.052449
-0.124828	0.479270	-323.327164	
0.50000	-5.036038	-16.290806	0.052449
-0.124828	0.414639	-303.252751	
0.75000	-5.036038	-16.290806	0.052449
-0.124828	0.350009	-283.178338	
1.00000	-5.036038	-16.290806	0.052449
-0.124828	0.285379	-263.103925	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.473549	43.807478	-0.348787
-4.469290	-1.794034	553.933278	
0.25000	3.473549	43.807478	-0.348787
-4.469290	-1.364241	499.951332	
0.50000	3.473549	43.807478	-0.348787
-4.469290	-0.934447	445.969387	
0.75000	3.473549	43.807478	-0.348787
-4.469290	-0.504653	391.987441	
1.00000	3.473549	43.807478	-0.348787
-4.469290	-0.074860	338.005496	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.931327	-45.077391	0.331675
2.976635	1.737499	-101.200286	
0.25000	1.931327	-45.077391	0.331675
2.976635	1.325791	-45.653485	
0.50000	1.931327	-45.077391	0.331675
2.976635	0.920083	9.893316	
0.75000	1.931327	-45.077391	0.331675
2.976635	0.511375	65.440117	
1.00000	1.931327	-45.077391	0.331675
2.976635	0.102667	120.986917	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.494565	22.853648	-0.023218
2.179151	-0.808611	-142.340118	
0.25000	-0.494565	22.853648	-0.023218
2.179151	-0.780001	-170.501620	
0.50000	-0.494565	22.853648	-0.023218
2.179151	-0.751390	-198.663122	
0.75000	-0.494565	22.853648	-0.023218
2.179151	-0.722779	-226.824625	
1.00000	-0.494565	22.853648	-0.023218
2.179151	-0.694168	-254.986127	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
278

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.176139	-6.489230	-0.019049
-0.896960	0.450836	40.577667	
0.25000	0.176139	-6.489230	-0.019049
-0.896960	0.474309	48.574048	
0.50000	0.176139	-6.489230	-0.019049
-0.896960	0.497782	56.570428	
0.75000	0.176139	-6.489230	-0.019049
-0.896960	0.521255	64.566809	
1.00000	0.176139	-6.489230	-0.019049
-0.896960	0.544728	72.563190	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.050413	1.196301	0.006930
0.335293	-0.129589	-7.568964	
0.25000	-0.050413	1.196301	0.006930
0.335293	-0.131128	-9.043111	
0.50000	-0.050413	1.196301	0.006930
0.335293	-0.146667	-10.517258	
0.75000	-0.050413	1.196301	0.006930
0.335293	-0.155207	-11.991405	
1.00000	-0.050413	1.196301	0.006930
0.335293	-0.163746	-13.465552	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.928571	-67.857427	0.365075
1.954846	-2.732234	-404.024196	
0.25000	-2.928571	-67.857427	0.365075
1.954846	-2.282369	-320.406602	
0.50000	-2.928571	-67.857427	0.365075
1.954846	-1.832504	-236.789007	
0.75000	-2.928571	-67.857427	0.365075
1.954846	-1.382639	-153.171412	
1.00000	-2.928571	-67.857427	0.365075
1.954846	-0.932774	-69.553817	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.928571	67.857427	-0.365075
-1.954846	-2.732234	404.024196	
0.25000	2.928571	67.857427	-0.365075
-1.954846	-2.282369	320.406602	
0.50000	2.928571	67.857427	-0.365075
-1.954846	-1.832504	236.789007	
0.75000	2.928571	67.857427	-0.365075
-1.954846	-1.382639	153.171412	
1.00000	2.928571	67.857427	-0.365075
-1.954846	-0.932774	69.553817	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.473549	67.857427	0.365075
2.976635	2.732234	553.933278	
0.25000	3.473549	67.857427	0.365075
2.976635	2.282369	499.951332	
0.50000	3.473549	67.857427	0.365075
2.976635	1.832504	445.969387	
0.75000	3.473549	67.857427	0.365075
2.976635	1.382639	391.987441	
1.00000	3.473549	67.857427	0.365075
2.976635	0.932774	338.005496	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.036038	-67.857427	-0.365075
-4.469290	-2.732234	-404.024196	
0.25000	-5.036038	-67.857427	-0.365075
-4.469290	-2.282369	-320.406602	
0.50000	-5.036038	-67.857427	-0.365075
-4.469290	-1.832504	-303.252751	
0.75000	-5.036038	-67.857427	-0.365075
-4.469290	-1.382639	-283.178338	
1.00000	-5.036038	-67.857427	-0.365075
-4.469290	-0.932774	-263.103925	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
279

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 121 ========== LENGTH = 4.927624

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.997929	-16.142860	0.061900
-0.734384	0.377096	-263.107445	
0.25000	-4.997929	-16.142860	0.061900
-0.734384	0.300841	-243.220960	
0.50000	-4.997929	-16.142860	0.061900
-0.734384	0.224585	-223.334476	
0.75000	-4.997929	-16.142860	0.061900
-0.734384	0.148330	-203.447991	
1.00000	-4.997929	-16.142860	0.061900
-0.734384	0.072075	-183.561506	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.935443	43.593564	-0.357653
-3.772537	1.369582	338.103218	
0.25000	2.935443	43.593564	-0.357653
-3.772537	-0.928987	284.400047	
0.50000	2.935443	43.593564	-0.357653
-3.772537	-0.488392	230.696877	
0.75000	2.935443	43.593564	-0.357653
-3.772537	-0.047797	176.993706	
1.00000	2.935443	43.593564	-0.357653
-3.772537	0.392797	123.290535	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.499571	-45.063593	0.323457
3.578152	1.470385	120.889096	
0.25000	2.499571	-45.063593	0.323457
3.578152	1.071916	176.403204	
0.50000	2.499571	-45.063593	0.323457
3.578152	0.673447	231.917312	
0.75000	2.499571	-45.063593	0.323457
3.578152	0.274978	287.431420	
1.00000	2.499571	-45.063593	0.323457
3.578152	-0.123491	342.945528	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.584820	22.917715	-0.015449
1.252676	-0.911908	-254.981495	
0.25000	-0.584820	22.917715	-0.015449
1.252676	-0.892876	-283.213965	
0.50000	-0.584820	22.917715	-0.015449
1.252676	-0.873845	-311.446435	
0.75000	-0.584820	22.917715	-0.015449
1.252676	-0.854814	-339.678904	
1.00000	-0.584820	22.917715	-0.015449
1.252676	-0.835783	-367.911374	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.203469	-6.494852	-0.018165
-0.562042	0.611023	72.562773	
0.25000	0.203469	-6.494852	-0.018165
-0.562042	0.633401	80.563820	
0.50000	0.203469	-6.494852	-0.018165
-0.562042	0.655779	88.564868	
0.75000	0.203469	-6.494852	-0.018165
-0.562042	0.678157	96.565915	
1.00000	0.203469	-6.494852	-0.018165
-0.562042	0.700535	104.566962	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.055735	1.190026	0.005909
0.238135	-0.177016	-13.466146	
0.25000	-0.055735	1.190026	0.005909
0.238135	-0.184295	-14.932212	
0.50000	-0.055735	1.190026	0.005909
0.238135	-0.191575	-16.398146	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
280

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.055735	1.190026	0.005909
0.238135	-0.198854	-17.864146	
1.00000	-0.055735	1.190026	0.005909
0.238135	-0.206134	-19.330145	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.294888	-67.701305	0.367192
2.281727	2.458505	-69.655576	
0.25000	-2.294888	-67.701305	0.367192
2.281727	2.006158	-13.746064	
0.50000	-2.294888	-67.701305	0.367192
2.281727	1.553812	97.147704	
0.75000	-2.294888	-67.701305	0.367192
2.281727	1.101465	180.549344	
1.00000	-2.294888	-67.701305	0.367192
2.281727	0.649119	263.950984	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.294888	67.701305	-0.367192
-2.281727	-2.458505	69.655576	
0.25000	2.294888	67.701305	-0.367192
-2.281727	-2.006158	13.746064	
0.50000	2.294888	67.701305	-0.367192
-2.281727	-1.553812	97.147704	
0.75000	2.294888	67.701305	-0.367192
-2.281727	-1.101465	180.549344	
1.00000	2.294888	67.701305	-0.367192
-2.281727	-0.649119	263.950984	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.935443	67.701305	0.367192
3.578152	2.458505	338.103218	
0.25000	2.935443	67.701305	0.367192
3.578152	2.006158	284.400047	
0.50000	2.935443	67.701305	0.367192
3.578152	1.553812	231.917312	
0.75000	2.935443	67.701305	0.367192
3.578152	1.101465	287.431420	
1.00000	2.935443	67.701305	0.367192
3.578152	0.700535	342.945528	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.997929	-67.701305	-0.367192
-3.772537	-2.458505	-263.107445	
0.25000	-4.997929	-67.701305	-0.367192
-3.772537	-2.006158	-283.213965	
0.50000	-4.997929	-67.701305	-0.367192
-3.772537	-1.553812	-311.446435	
0.75000	-4.997929	-67.701305	-0.367192
-3.772537	-1.101465	-339.678904	
1.00000	-4.997929	-67.701305	-0.367192
-3.772537	-0.835783	-367.911374	

ELEM 122 ========== LENGTH = 4.928294

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.925971	-16.060736	0.071893
-1.273453	0.245506	-183.566815	
0.25000	-4.925971	-16.060736	0.071893
-1.273453	0.156928	-163.778807	
0.50000	-4.925971	-16.060736	0.071893
-1.273453	0.068351	-143.990799	
0.75000	-4.925971	-16.060736	0.071893
-1.273453	-0.020227	-124.202791	
1.00000	-4.925971	-16.060736	0.071893
-1.273453	-0.108805	-104.414783	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
281

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	2.360532	43.589229	-0.365178
-3.243002	-0.990570	123.391209	
0.25000	2.360532	43.589229	-0.365178
-3.243002	-0.540643	69.686071	
0.50000	2.360532	43.589229	-0.365178
-3.243002	-0.090717	15.980933	
0.75000	2.360532	43.589229	-0.365178
-3.243002	0.359209	-37.724205	
1.00000	2.360532	43.589229	-0.365178
-3.243002	0.809135	-91.429343	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.032393	-45.266839	0.313442
4.466132	1.158745	342.848379	
0.25000	3.032393	-45.266839	0.313442
4.466132	0.772561	398.620455	
0.50000	3.032393	-45.266839	0.313442
4.466132	0.386378	454.392531	
0.75000	3.032393	-45.266839	0.313442
4.466132	0.000194	510.164608	
1.00000	3.032393	-45.266839	0.313442
4.466132	-0.385990	565.936684	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.626040	23.071423	-0.008018
0.052561	-0.935327	-367.908800	
0.25000	-0.626040	23.071423	-0.008018
0.052561	-0.925448	-396.334491	
0.50000	-0.626040	23.071423	-0.008018
0.052561	-0.915568	-424.760183	
0.75000	-0.626040	23.071423	-0.008018
0.052561	-0.905689	-453.185874	
1.00000	-0.626040	23.071423	-0.008018
0.052561	-0.895810	-481.611565	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.217380	-6.509578	-0.017907
-0.084006	0.734494	104.566579	
0.25000	0.217380	-6.509578	-0.017907
-0.084006	0.756556	112.586858	
0.50000	0.217380	-6.509578	-0.017907
-0.084006	0.778618	120.607136	
0.75000	0.217380	-6.509578	-0.017907
-0.084006	0.800681	128.627415	
1.00000	0.217380	-6.509578	-0.017907
-0.084006	0.822743	136.647693	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.058294	1.176499	0.005768
0.081768	-0.212848	-19.330552	
0.25000	-0.058294	1.176499	0.005768
0.081768	-0.219955	-20.780086	
0.50000	-0.058294	1.176499	0.005768
0.081768	-0.227061	-22.229620	
0.75000	-0.058294	1.176499	0.005768
0.081768	-0.234168	-23.679153	
1.00000	-0.058294	1.176499	0.005768
0.081768	-0.241274	-25.128687	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.676198	-67.837152	0.367429
3.108673	2.138745	263.848143	
0.25000	-1.676198	-67.837152	0.367429
3.108673	1.686046	347.428506	
0.50000	-1.676198	-67.837152	0.367429
3.108673	1.233347	431.008869	
0.75000	-1.676198	-67.837152	0.367429
3.108673	0.780648	514.589232	
1.00000	-1.676198	-67.837152	0.367429
3.108673	0.327949	598.169595	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
282

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.676198	67.837152	-0.367429
-3.108673	-2.138745	-263.848143	
0.25000	1.676198	67.837152	-0.367429
-3.108673	-1.686046	-347.428506	
0.50000	1.676198	67.837152	-0.367429
-3.108673	-1.233347	-431.008869	
0.75000	1.676198	67.837152	-0.367429
-3.108673	-0.780648	-514.589232	
1.00000	1.676198	67.837152	-0.367429
-3.108673	-0.327949	-598.169595	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.032393	67.837152	0.367429
4.466132	2.138745	342.848379	
0.25000	3.032393	67.837152	0.367429
4.466132	1.686046	398.620455	
0.50000	3.032393	67.837152	0.367429
4.466132	1.233347	454.392531	
0.75000	3.032393	67.837152	0.367429
4.466132	0.780681	514.589232	
1.00000	3.032393	67.837152	0.367429
4.466132	0.822743	598.169595	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.925971	-67.837152	-0.367429
-3.243002	-2.138745	-367.908800	
0.25000	-4.925971	-67.837152	-0.367429
-3.243002	-1.686046	-396.334491	
0.50000	-4.925971	-67.837152	-0.367429
-3.243002	-1.233347	-431.008869	
0.75000	-4.925971	-67.837152	-0.367429
-3.243002	-0.905689	-514.589232	
1.00000	-4.925971	-67.837152	-0.367429
-3.243002	-0.895810	-598.169595	

ELEM 123 ========== LENGTH = 4.928139

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.833587	-16.022059	0.074397
-1.574375	0.114198	-104.421191	
0.25000	-4.833587	-16.022059	0.074397
-1.574375	0.022539	-84.681457	
0.50000	-4.833587	-16.022059	0.074397
-1.574375	-0.069121	-64.941723	
0.75000	-4.833587	-16.022059	0.074397
-1.574375	-0.160781	-45.201989	
1.00000	-4.833587	-16.022059	0.074397
-1.574375	-0.252440	-25.462255	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.784287	43.818483	-0.382071
-2.921457	-0.577717	-91.331312	
0.25000	1.784287	43.818483	-0.382071
-2.921457	-0.106993	-145.317205	
0.50000	1.784287	43.818483	-0.382071
-2.921457	0.363732	-199.303099	
0.75000	1.784287	43.818483	-0.382071
-2.921457	0.834457	-253.288992	
1.00000	1.784287	43.818483	-0.382071
-2.921457	1.305182	-307.274886	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.493951	-45.814599	0.333854
5.171489	0.724185	565.846767	
0.25000	3.493951	-45.814599	0.333854
5.171489	0.312865	622.291945	
0.50000	3.493951	-45.814599	0.333854
5.171489	-0.098455	678.737123	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
283

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	3.493951	-45.814599	0.333854
5.171489	-0.509775	735.182301	
1.00000	3.493951	-45.814599	0.333854
5.171489	-0.921095	791.627479	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.600571	23.414796	-0.017739
-0.995189	-0.834142	-481.612979	
0.25000	-0.600571	23.414796	-0.017739
-0.995189	-0.812287	-510.460821	
0.50000	-0.600571	23.414796	-0.017739
-0.995189	-0.790432	-539.308663	
0.75000	-0.600571	23.414796	-0.017739
-0.995189	-0.768577	-568.156505	
1.00000	-0.600571	23.414796	-0.017739
-0.995189	-0.746722	-597.004347	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.213011	-6.551189	-0.015552
0.450147	0.812527	136.647414	
0.25000	0.213011	-6.551189	-0.015552
0.450147	0.831688	144.718706	
0.50000	0.213011	-6.551189	-0.015552
0.450147	0.850849	152.789998	
0.75000	0.213011	-6.551189	-0.015552
0.450147	0.870010	160.861290	
1.00000	0.213011	-6.551189	-0.015552
0.450147	0.889171	168.932582	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.057090	1.154568	0.007112
-0.130615	-0.239050	-25.128699	
0.25000	-0.057090	1.154568	0.007112
-0.130615	-0.247811	-26.551168	
0.50000	-0.057090	1.154568	0.007112
-0.130615	-0.256573	-27.973636	
0.75000	-0.057090	1.154568	0.007112
-0.130615	-0.265335	-29.396105	
1.00000	-0.057090	1.154568	0.007112
-0.130615	-0.274096	-30.818573	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.126625	-68.387847	0.392699
4.047261	1.650909	598.072990	
0.25000	-1.126625	-68.387847	0.392699
4.047261	1.167091	682.329194	
0.50000	-1.126625	-68.387847	0.392699
4.047261	0.683273	766.585398	
0.75000	-1.126625	-68.387847	0.392699
4.047261	0.199454	850.841602	
1.00000	-1.126625	-68.387847	0.392699
4.047261	-0.284364	935.097806	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.126625	68.387847	-0.392699
-4.047261	-1.650909	-598.072990	
0.25000	1.126625	68.387847	-0.392699
-4.047261	-1.167091	-682.329194	
0.50000	1.126625	68.387847	-0.392699
-4.047261	-0.683273	-766.585398	
0.75000	1.126625	68.387847	-0.392699
-4.047261	-0.199454	-850.841602	
1.00000	1.126625	68.387847	-0.392699

-4.047261 0.284364 -935.097806

COMB SETTLE ------------------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.493951	68.387847	0.392699
5.171489	1.650909	598.072990	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	3.493951	68.387847	0.392699
5.171489	1.167091	682.329194	
0.50000	3.493951	68.387847	0.392699
5.171489	0.850849	766.585398	
0.75000	3.493951	68.387847	0.392699
5.171489	0.870010	850.841602	
1.00000	3.493951	68.387847	0.392699
5.171489	1.305182	935.097806	

COMB SETTLE ------------------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.833587	-68.387847	-0.392699
-4.047261	-1.650909	-598.072990	
0.25000	-4.833587	-68.387847	-0.392699
-4.047261	-1.167091	-682.329194	
0.50000	-4.833587	-68.387847	-0.392699
-4.047261	-0.700432	-766.585398	
0.75000	-4.833587	-68.387847	-0.392699
-4.047261	-0.768577	-850.841602	
1.00000	-4.833587	-68.387847	-0.392699
-4.047261	-0.921095	-935.097806	

ELEM 124 ========== LENGTH = 4.928060

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.734106	-16.018795	0.069045
-1.634507	-0.012214	-25.468483	
0.25000	-4.734106	-16.018795	0.069045
-1.634507	-0.097278	-5.733086	
0.50000	-4.734106	-16.018795	0.069045
-1.634507	-0.182343	14.002310	
0.75000	-4.734106	-16.018795	0.069045
-1.634507	-0.267408	33.737706	
1.00000	-4.734106	-16.018795	0.069045
-1.634507	-0.352473	53.473103	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.236552	44.313538	-0.399478
-2.718173	-0.012056	-307.181616	
0.25000	1.236552	44.313538	-0.399478
-2.718173	0.480107	-361.776560	
0.50000	1.236552	44.313538	-0.399478
-2.718173	0.972270	-416.371505	
0.75000	1.236552	44.313538	-0.399478
-2.718173	1.464433	-470.966449	
1.00000	1.236552	44.313538	-0.399478
-2.718173	1.956597	-525.561394	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.859457	-46.751688	0.378055
5.643532	-0.043554	791.547300	
0.25000	3.859457	-46.751688	0.378055
5.643532	-0.509323	849.146081	
0.50000	3.859457	-46.751688	0.378055
5.643532	-0.975093	906.744863	
0.75000	3.859457	-46.751688	0.378055
5.643532	-1.440863	964.343644	
1.00000	3.859457	-46.751688	0.378055
5.643532	-1.906633	1021.942	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.497980	23.942015	-0.048428
-1.982597	-0.498805	-597.011526	
0.25000	-0.497980	23.942015	-0.048428
-1.982597	-0.439142	-626.508448	
0.50000	-0.497980	23.942015	-0.048428
-1.982597	-0.379478	-656.005370	
0.75000	-0.497980	23.942015	-0.048428
-1.982597	-0.319815	-685.502292	
1.00000	-0.497980	23.942015	-0.048428
-1.982597	-0.260151	-714.999215	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.187553	-6.601184	-0.009193
1.115735	0.828089	168.932252	
0.25000	0.187553	-6.601184	-0.009193
1.115735	0.839416	177.065011	
0.50000	0.187553	-6.601184	-0.009193
1.115735	0.850742	185.197769	
0.75000	0.187553	-6.601184	-0.009193
1.115735	0.862068	193.330527	
1.00000	0.187553	-6.601184	-0.009193
1.115735	0.873394	201.463285	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.051476	1.116114	0.009999
-0.423990	-0.261460	-30.817928	
0.25000	-0.051476	1.116114	0.009999
-0.423990	-0.273779	-32.192997	
0.50000	-0.051476	1.116114	0.009999
-0.423990	-0.286097	-33.568067	
0.75000	-0.051476	1.116114	0.009999
-0.423990	-0.298416	-34.943136	
1.00000	-0.051476	1.116114	0.009999
-0.423990	-0.310734	-36.318205	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.687096	-69.371668	0.437907
5.124760	0.772322	935.011069	
0.25000	-0.687096	-69.371668	0.437907
5.124760	0.232814	1020.478	
0.50000	-0.687096	-69.371668	0.437907
5.124760	-0.306695	1105.945	
0.75000	-0.687096	-69.371668	0.437907
5.124760	-0.846203	1191.412	
1.00000	-0.687096	-69.371668	0.437907
5.124760	-1.385711	1276.879	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.687096	69.371668	-0.437907
-5.124760	-0.772322	-935.011069	
0.25000	0.687096	69.371668	-0.437907
-5.124760	-0.232814	-1020.478	
0.50000	0.687096	69.371668	-0.437907
-5.124760	0.306695	-1105.945	
0.75000	0.687096	69.371668	-0.437907
-5.124760	0.846203	-1191.412	
1.00000	0.687096	69.371668	-0.437907
-5.124760	1.385711	-1276.879	

COMB SETTLE ------------------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	3.859457	69.371668	0.437907
5.643532	0.828089	935.011069	
0.25000	3.859457	69.371668	0.437907
5.643532	0.839416	1020.478	
0.50000	3.859457	69.371668	0.437907
5.643532	0.972270	1105.945	
0.75000	3.859457	69.371668	0.437907
5.643532	1.464433	1191.412	
1.00000	3.859457	69.371668	0.437907
5.643532	1.956597	1276.879	

COMB SETTLE ------------------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.734106	-69.371668	-0.437907
-5.124760	-0.772322	-935.011069	
0.25000	-4.734106	-69.371668	-0.437907
-5.124760	-0.509323	-1020.478	
0.50000	-4.734106	-69.371668	-0.437907
-5.124760	-0.975093	-1105.945	
0.75000	-4.734106	-69.371668	-0.437907
-5.124760	-1.440863	-1191.412	
1.00000	-4.734106	-69.371668	-0.437907
-5.124760	-1.906633	-1276.879	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 125 ========== LENGTH = 4.928108

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.639614	-16.046265	0.054484
-1.424438	-0.123755	53.467175	
0.25000	-4.639614	-16.046265	0.054484
-1.424438	-0.190881	73.236606	
0.50000	-4.639614	-16.046265	0.054484
-1.424438	-0.258007	93.006038	
0.75000	-4.639614	-16.046265	0.054484
-1.424438	-0.325132	112.775470	
1.00000	-4.639614	-16.046265	0.054484
-1.424438	-0.392258	132.544902	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.746496	45.239350	-0.379614
-2.227909	0.777537	-525.478178	
0.25000	0.746496	45.239350	-0.379614
-2.227909	1.245232	-581.214280	
0.50000	0.746496	45.239350	-0.379614
-2.227909	1.712927	-636.950382	
0.75000	0.746496	45.239350	-0.379614
-2.227909	2.180622	-692.686484	
1.00000	0.746496	45.239350	-0.379614
-2.227909	2.648317	-748.422586	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.105943	-48.434954	0.369949
4.947606	-1.315962	1021.880	
0.25000	4.105943	-48.434954	0.369949
4.947606	-1.771748	1081.553	
0.50000	4.105943	-48.434954	0.369949
4.947606	-2.227535	1141.226	
0.75000	4.105943	-48.434954	0.369949
4.947606	-2.683322	1200.900	
1.00000	4.105943	-48.434954	0.369949
4.947606	-3.139108	1260.573	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.311006	24.874050	-0.055166
-2.328559	0.191918	-715.015283	
0.25000	-0.311006	24.874050	-0.055166
-2.328559	0.259884	-745.660785	
0.50000	-0.311006	24.874050	-0.055166
-2.328559	0.327850	-776.306288	
0.75000	-0.311006	24.874050	-0.055166
-2.328559	0.395815	-806.951790	
1.00000	-0.311006	24.874050	-0.055166
-2.328559	0.463781	-837.597293	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.139144	-6.699020	-0.001728
1.810896	0.756816	201.462828	
0.25000	0.139144	-6.699020	-0.001728
1.810896	0.758945	209.716201	
0.50000	0.139144	-6.699020	-0.001728
1.810896	0.761074	217.969575	
0.75000	0.139144	-6.699020	-0.001728
1.810896	0.763203	226.222948	
1.00000	0.139144	-6.699020	-0.001728
1.810896	0.765333	234.476321	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.040963	1.066838	0.012075
-0.777596	-0.286555	-36.316604	
0.25000	-0.040963	1.066838	0.012075
-0.777596	-0.301432	-37.630977	
0.50000	-0.040963	1.066838	0.012075
-0.777596	-0.316309	-38.945351	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.040963	1.066838	0.012075
-0.777596	-0.331187	-40.259724	
1.00000	-0.040963	1.066838	0.012075
-0.777596	-0.346064	-41.574098	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.394527	-71.180238	0.422705
5.334064	-0.682901	1276.810	
0.25000	-0.394527	-71.180238	0.422705
5.334064	-1.203684	1364.506	
0.50000	-0.394527	-71.180238	0.422705
5.334064	-1.724467	1452.202	
0.75000	-0.394527	-71.180238	0.422705
5.334064	-2.245251	1539.898	
1.00000	-0.394527	-71.180238	0.422705
5.334064	-2.766034	1627.594	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.394527	71.180238	-0.422705
-5.334064	0.682901	1276.810	
0.25000	0.394527	71.180238	-0.422705
-5.334064	1.203684	-1364.506	
0.50000	0.394527	71.180238	-0.422705
-5.334064	1.724467	-1452.202	
0.75000	0.394527	71.180238	-0.422705
-5.334064	2.245251	-1539.898	
1.00000	0.394527	71.180238	-0.422705
-5.334064	2.766034	-1627.594	

COMB SETTLE ------------------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.105943	71.180238	0.422705
5.334064	0.777537	1276.810	
0.25000	4.105943	71.180238	0.422705
5.334064	1.245232	1364.506	
0.50000	4.105943	71.180238	0.422705
5.334064	1.724467	1452.202	
0.75000	4.105943	71.180238	0.422705
5.334064	2.245251	1539.898	
1.00000	4.105943	71.180238	0.422705
5.334064	2.766034	1627.594	

COMB SETTLE ------------------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.639614	-71.180238	-0.422705
-5.334064	-1.315962	-1276.810	
0.25000	-4.639614	-71.180238	-0.422705
-5.334064	-1.771748	-1364.506	
0.50000	-4.639614	-71.180238	-0.422705
-5.334064	-2.227535	-1452.202	
0.75000	-4.639614	-71.180238	-0.422705
-5.334064	-2.683322	-1539.898	
1.00000	-4.639614	-71.180238	-0.422705
-5.334064	-3.139108	-1627.594	

ELEM 126 ========== LENGTH = 3.449691

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.553139	-16.139218	0.019629
-1.156044	-0.185737	132.537842	
0.25000	-4.553139	-16.139218	0.019629
-1.156044	-0.202666	146.456670	
0.50000	-4.553139	-16.139218	0.019629
-1.156044	-0.219594	160.375499	
0.75000	-4.553139	-16.139218	0.019629
-1.156044	-0.236523	174.294327	
1.00000	-4.553139	-16.139218	0.019629
-1.156044	-0.253451	188.213156	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.306732	46.586157	-0.205060
-0.865898	1.605398	-748.351688	
0.25000	0.306732	46.586157	-0.205060
-0.865898	1.782246	-788.528650	
0.50000	0.306732	46.586157	-0.205060
-0.865898	1.959095	-828.705611	
0.75000	0.306732	46.586157	-0.205060
-0.865898	2.135943	-868.882572	
1.00000	0.306732	46.586157	-0.205060
-0.865898	2.312791	-909.059533	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.221622	-50.823103	0.156502
2.147180	-2.867191	1260.538	
0.25000	4.221622	-50.823103	0.156502
2.147180	-3.002162	1304.369	
0.50000	4.221622	-50.823103	0.156502
2.147180	-3.137133	1348.200	
0.75000	4.221622	-50.823103	0.156502
2.147180	-3.272105	1392.031	
1.00000	4.221622	-50.823103	0.156502
2.147180	-3.407076	1435.862	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.011512	26.180375	0.016612
-1.402389	1.173473	-837.630202	
0.25000	-0.011512	26.180375	0.016612
-1.402389	1.162247	-860.208753	
0.50000	-0.011512	26.180375	0.016612
-1.402389	1.147920	-882.787304	
0.75000	-0.011512	26.180375	0.016612
-1.402389	1.133594	-905.365855	
1.00000	-0.011512	26.180375	0.016612
-1.402389	1.119268	-927.944406	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.060571	-6.826735	0.008150
2.369094	0.578635	234.478520	
0.25000	0.060571	-6.826735	0.008150
2.369094	0.571606	240.366052	
0.50000	0.060571	-6.826735	0.008150
2.369094	0.564578	246.253583	
0.75000	0.060571	-6.826735	0.008150
2.369094	0.557549	252.141115	
1.00000	0.060571	-6.826735	0.008150
2.369094	0.550521	258.028647	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.024275	1.022525	0.004167
-1.091942	-0.307677	-41.572522	
0.25000	-0.024275	1.022525	0.004167
-1.091942	-0.311271	-42.454371	
0.50000	-0.024275	1.022525	0.004167
-1.091942	-0.314865	-43.336219	
0.75000	-0.024275	1.022525	0.004167
-1.091942	-0.318459	-44.218068	
1.00000	-0.024275	1.022525	0.004167
-1.091942	-0.322053	-45.099917	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.270946	-73.789056	0.184281
3.360230	-2.474294	1627.554	
0.25000	-0.270946	-73.789056	0.184281
3.360230	-2.633222	1691.192	
0.50000	-0.270946	-73.789056	0.184281
3.360230	-2.792150	1754.829	
0.75000	-0.270946	-73.789056	0.184281
3.360230	-2.951078	1818.466	
1.00000	-0.270946	-73.789056	0.184281
3.360230	-3.110006	1882.104	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.270946	73.789056	-0.184281
-3.360230	2.474294	-1627.554	
0.25000	0.270946	73.789056	-0.184281
-3.360230	2.633222	-1691.192	
0.50000	0.270946	73.789056	-0.184281
-3.360230	2.792150	-1754.829	
0.75000	0.270946	73.789056	-0.184281
-3.360230	2.951078	-1818.466	
1.00000	0.270946	73.789056	-0.184281
-3.360230	3.110006	-1882.104	

COMB SETTLE ------------------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.221622	73.789056	0.184281
3.360230	2.474294	1627.554	
0.25000	4.221622	73.789056	0.184281
3.360230	2.633222	1691.192	
0.50000	4.221622	73.789056	0.184281
3.360230	2.792150	1754.829	
0.75000	4.221622	73.789056	0.184281
3.360230	2.951078	1818.466	
1.00000	4.221622	73.789056	0.184281
3.360230	3.110006	1882.104	

COMB SETTLE ------------------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.553139	-73.789056	-0.205060
-3.360230	-2.867191	-1627.554	
0.25000	-4.553139	-73.789056	-0.205060
-3.360230	-3.002162	-1691.192	
0.50000	-4.553139	-73.789056	-0.205060
-3.360230	-3.137133	-1754.829	
0.75000	-4.553139	-73.789056	-0.205060
-3.360230	-3.272105	-1818.466	
1.00000	-4.553139	-73.789056	-0.205060
-3.360230	-3.407076	-1882.104	

ELEM 127 ========== LENGTH = 3.450336

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.055756	5.320803	-0.009788
-1.007038	-0.071969	193.644555	
0.25000	0.055756	5.320803	-0.009788
-1.007038	-0.063526	189.054915	
0.50000	0.055756	5.320803	-0.009788
-1.007038	-0.055083	184.465276	
0.75000	0.055756	5.320803	-0.009788
-1.007038	-0.046640	179.875637	
1.00000	0.055756	5.320803	-0.009788
-1.007038	-0.038197	175.285998	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.101592	-25.707997	-0.010984
1.205693	1.383505	-909.019110	
0.25000	-0.101592	-25.707997	-0.010984
1.205693	1.392981	-886.843804	
0.50000	-0.101592	-25.707997	-0.010984
1.205693	1.402456	-864.668498	
0.75000	-0.101592	-25.707997	-0.010984
1.205693	1.411931	-842.493193	
1.00000	-0.101592	-25.707997	-0.010984
1.205693	1.421406	-820.317887	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.423723	50.362824	-0.168351
-2.274099	-3.391616	1436.097	
0.25000	4.423723	50.362824	-0.168351
-2.274099	-3.246399	1392.654	
0.50000	4.423723	50.362824	-0.168351
-2.274099	-3.101183	1349.212	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	4.423723	50.362824	-0.168351
-2.274099	-2.955967	1305.770	
1.00000	4.423723	50.362824	-0.168351
-2.274099	-2.810750	1262.328	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.539191	-47.283678	0.193290
0.604642	2.045487	-929.106210	
0.25000	-0.539191	-47.283678	0.193290
0.604642	1.878758	-888.320069	
0.50000	-0.539191	-47.283678	0.193290
0.604642	1.712029	-847.533927	
0.75000	-0.539191	-47.283678	0.193290
0.604642	1.545299	-806.747785	
1.00000	-0.539191	-47.283678	0.193290
0.604642	1.378570	-765.961644	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.622206	21.504635	0.002438
2.654421	0.306708	258.833322	
0.25000	0.622206	21.504635	0.002438
2.654421	0.304605	240.283769	
0.50000	0.622206	21.504635	0.002438
2.654421	0.302503	221.734216	
0.75000	0.622206	21.504635	0.002438
2.654421	0.300400	203.184663	
1.00000	0.622206	21.504635	0.002438
2.654421	0.298298	184.635110	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.460901	-4.196586	-0.006605
-1.183619	-0.272115	-50.449086	
0.25000	-4.460901	-4.196586	-0.006605
-1.183619	-0.266418	-46.829178	
0.50000	-4.460901	-4.196586	-0.006605
-1.183619	-0.260720	-43.209270	
0.75000	-4.460901	-4.196586	-0.006605
-1.183619	-0.255023	-39.589362	
1.00000	-4.460901	-4.196586	-0.006605
-1.183619	-0.249326	-35.969454	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.101684	77.188262	-0.175701
-0.626716	-3.156878	1888.574	
0.25000	5.101684	77.188262	-0.175701
-0.626716	-3.005321	1821.993	
0.50000	5.101684	77.188262	-0.175701
-0.626716	-2.853764	1755.412	
0.75000	5.101684	77.188262	-0.175701
-0.626716	-2.702207	1688.830	
1.00000	5.101684	77.188262	-0.175701
-0.626716	-2.550650	1622.249	

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -5.101684 -77.188262 0.175701
0.626716 3.156878 -1888.574
0.25000 -5.101684 -77.188262 0.175701
0.626716 3.005321 -1821.993
0.50000 -5.101684 -77.188262 0.175701
0.626716 2.853764 -1755.412
0.75000 -5.101684 -77.188262 0.175701
0.626716 2.702207 -1688.830
1.00000 -5.101684 -77.188262 0.175701
0.626716 2.550650 -1622.249

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 5.101684 77.188262 0.193290
2.654421 3.156878 1888.574
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
291

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 5.101684 77.188262 0.193290
2.654421 3.005321 1821.993
0.50000 5.101684 77.188262 0.193290
2.654421 2.853764 1755.412
0.75000 5.101684 77.188262 0.193290
2.654421 2.702207 1688.830
1.00000 5.101684 77.188262 0.193290
2.654421 2.550650 1622.249

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -5.101684 -77.188262 -0.175701
-2.274099 -3.391616 -1888.574
0.25000 -5.101684 -77.188262 -0.175701
-2.274099 -3.246399 -1821.993
0.50000 -5.101684 -77.188262 -0.175701
-2.274099 -3.101183 -1755.412
0.75000 -5.101684 -77.188262 -0.175701
-2.274099 -2.955967 -1688.830
1.00000 -5.101684 -77.188262 -0.175701
-2.274099 -2.810750 -1622.249

ELEM 128 ========== LENGTH = 4.928365

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.113799 5.147229 -0.017086
-0.823805 0.101265 175.281896
0.25000 0.113799 5.147229 -0.017086
-0.823805 0.122336 168.940040
0.50000 0.113799 5.147229 -0.017086
-0.823805 0.143387 162.598184
0.75000 0.113799 5.147229 -0.017086
-0.823805 0.164438 156.256328
1.00000 0.113799 5.147229 -0.017086
-0.823805 0.185489 149.914472

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.403098 -24.392505 0.067300
2.148155 0.702243 -820.284609
0.25000 -0.403098 -24.392505 0.067300
2.148155 0.620323 -790.230815
0.50000 -0.403098 -24.392505 0.067300
2.148155 0.537404 -760.177022
0.75000 -0.403098 -24.392505 0.067300
2.148155 0.454484 -730.123228
1.00000 -0.403098 -24.392505 0.067300
2.148155 0.371564 -700.069435

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 4.320404 47.976936 -0.377676
-4.964432 -3.052959 1262.362
0.25000 4.320404 47.976936 -0.377676
-4.964432 -2.587628 1203.251
0.50000 4.320404 47.976936 -0.377676
-4.964432 -2.122296 1144.139
0.75000 4.320404 47.976936 -0.377676
-4.964432 -1.656965 1085.027
1.00000 4.320404 47.976936 -0.377676
-4.964432 -1.191633 1025.915

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.100120 -45.932513 0.356980
1.878948 2.419784 -766.031880
0.25000 -0.100120 -45.932513 0.356980
1.878948 1.979951 -709.438829
0.50000 -0.100120 -45.932513 0.356980
1.878948 1.540119 -652.845778
0.75000 -0.100120 -45.932513 0.356980
1.878948 1.100286 -596.252727
1.00000 -0.100120 -45.932513 0.356980
1.878948 0.660454 -539.659676
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
292

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.507810 21.310603 -0.016582
2.820512 0.026569 184.639887
0.25000 0.507810 21.310603 -0.016582
2.820512 0.047000 158.383377
0.50000 0.507810 21.310603 -0.016582
2.820512 0.067430 132.126768
0.75000 0.507810 21.310603 -0.016582
2.820512 0.087860 105.870158
1.00000 0.507810 21.310603 -0.016582
2.820512 0.108291 79.613548

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.438796 -4.109751 -0.012937
-1.059379 -0.197921 -35.967877
0.25000 -4.438796 -4.109751 -0.012937
-1.059379 -0.181982 -30.904288
0.50000 -4.438796 -4.109751 -0.012937
-1.059379 -0.166043 -25.840699
0.75000 -4.438796 -4.109751 -0.012937
-1.059379 -0.150104 -20.777110
1.00000 -4.438796 -4.109751 -0.012937
-1.059379 -0.134164 -15.713521

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 4.942013 74.434768 -0.411344
-2.967724 -2.925106 1622.284
0.25000 4.942013 74.434768 -0.411344
-2.967724 -2.418293 1530.574
0.50000 4.942013 74.434768 -0.411344
-2.967724 -1.911479 1438.863
0.75000 4.942013 74.434768 -0.411344
-2.967724 -1.404666 1347.153
1.00000 4.942013 74.434768 -0.411344
-2.967724 -0.897853 1255.443

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.942013 -74.434768 0.411344
2.967724 2.925106 -1622.284
0.25000 -4.942013 -74.434768 0.411344
2.967724 2.418293 -1530.574
0.50000 -4.942013 -74.434768 0.411344
2.967724 1.911479 -1438.863
0.75000 -4.942013 -74.434768 0.411344
2.967724 1.404666 -1347.153
1.00000 -4.942013 -74.434768 0.411344
2.967724 0.897853 -1255.443

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.942013 74.434768 0.411344
2.967724 2.925106 1622.284
0.25000 4.942013 74.434768 0.411344
2.967724 2.418293 1530.574
0.50000 4.942013 74.434768 0.411344
2.967724 1.911479 1438.863
0.75000 4.942013 74.434768 0.411344
2.967724 1.404666 1347.153
1.00000 4.942013 74.434768 0.411344
2.967724 0.897853 1255.443

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.942013 -74.434768 -0.411344
-4.964432 -3.052959 -1622.284
0.25000 -4.942013 -74.434768 -0.411344
-4.964432 -2.587628 -1530.574
0.50000 -4.942013 -74.434768 -0.411344
-4.964432 -2.122296 -1438.863
0.75000 -4.942013 -74.434768 -0.411344
-4.964432 -1.656965 -1347.153
1.00000 -4.942013 -74.434768 -0.411344
-4.964432 -1.191633 -1255.443
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
293

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 129 ========== LENGTH = 4.927840

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.149825 4.995919 -0.010143
-0.573573 0.273697 149.912838
0.25000 0.149825 4.995919 -0.010143
-0.573573 0.286193 143.758066
0.50000 0.149825 4.995919 -0.010143
-0.573573 0.298688 137.603293
0.75000 0.149825 4.995919 -0.010143
-0.573573 0.311183 131.448521
1.00000 0.149825 4.995919 -0.010143
-0.573573 0.323679 125.293749

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.593899 -23.447873 0.058401
1.906949 -0.090215 -700.052736
0.25000 -0.593899 -23.447873 0.058401
1.906949 -0.162163 -671.165893
0.50000 -0.593899 -23.447873 0.058401
1.906949 -0.234111 -642.279051
0.75000 -0.593899 -23.447873 0.058401
1.906949 -0.306059 -613.392208
1.00000 -0.593899 -23.447873 0.058401
1.906949 -0.378007 -584.505365

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 4.085553 46.285740 -0.384000
-5.672872 -1.754078 1025.976
0.25000 4.085553 46.285740 -0.384000
-5.672872 -1.281006 968.954270
0.50000 4.085553 46.285740 -0.384000
-5.672872 -0.807933 911.932086
0.75000 4.085553 46.285740 -0.384000
-5.672872 -0.334861 854.909902
1.00000 4.085553 46.285740 -0.384000
-5.672872 0.138212 797.887718

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.390416 -44.993274 0.375790
2.377734 1.840798 -539.741790
0.25000 0.390416 -44.993274 0.375790
2.377734 1.377840 -484.311872
0.50000 0.390416 -44.993274 0.375790
2.377734 0.914882 -428.881955
0.75000 0.390416 -44.993274 0.375790
2.377734 0.451924 -373.452037
1.00000 0.390416 -44.993274 0.375790
2.377734 -0.011034 -318.022120

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.385517 21.190354 -0.020325
2.834888 -0.186677 79.616937
0.25000 0.385517 21.190354 -0.020325
2.834888 -0.161637 53.511268
0.50000 0.385517 21.190354 -0.020325
2.834888 -0.136598 27.405598
0.75000 0.385517 21.190354 -0.020325
2.834888 -0.111559 1.299929
1.00000 0.385517 21.190354 -0.020325
2.834888 -0.086520 -24.805741

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.417412 -4.030866 -0.019724
-0.873127 -0.083525 -15.711703
0.25000 -4.417412 -4.030866 -0.019724
-0.873127 -0.059226 -10.745838
0.50000 -4.417412 -4.030866 -0.019724
-0.873127 -0.034927 -5.779972
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
294

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -4.417412 -4.030866 -0.019724
-0.873127 -0.010628 -0.814106
1.00000 -4.417412 -4.030866 -0.019724
-0.873127 0.013671 4.151759

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 4.620894 72.472013 -0.414467
-3.411557 -1.667058 1255.506
0.25000 4.620894 72.472013 -0.414467
-3.411557 -1.156450 1166.224
0.50000 4.620894 72.472013 -0.414467
-3.411557 -0.645843 1076.941
0.75000 4.620894 72.472013 -0.414467
-3.411557 -0.135236 987.658352
1.00000 4.620894 72.472013 -0.414467
-3.411557 0.375371 898.375726

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.620894 -72.472013 0.414467
3.411557 1.667058 -1255.506
0.25000 -4.620894 -72.472013 0.414467
3.411557 1.156450 -1166.224
0.50000 -4.620894 -72.472013 0.414467
3.411557 0.645843 -1076.941
0.75000 -4.620894 -72.472013 0.414467
3.411557 0.135236 -987.658352
1.00000 -4.620894 -72.472013 0.414467
3.411557 -0.375371 -898.375726

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.620894 72.472013 0.414467
3.411557 1.840798 1255.506
0.25000 4.620894 72.472013 0.414467
3.411557 1.377840 1166.224
0.50000 4.620894 72.472013 0.414467
3.411557 0.914882 1076.941
0.75000 4.620894 72.472013 0.414467
3.411557 0.451924 987.658352
1.00000 4.620894 72.472013 0.414467
3.411557 0.375371 898.375726

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.620894 -72.472013 -0.414467
-5.672872 -1.754078 -1255.506
0.25000 -4.620894 -72.472013 -0.414467
-5.672872 -1.281006 -1166.224
0.50000 -4.620894 -72.472013 -0.414467
-5.672872 -0.807933 -1076.941
0.75000 -4.620894 -72.472013 -0.414467
-5.672872 -0.334861 -987.658352
1.00000 -4.620894 -72.472013 -0.414467
-5.672872 -0.378007 -898.375726

ELEM 130 ========== LENGTH = 4.928455

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.169388 4.907554 -0.000781
-0.296020 0.371752 125.293031
0.25000 0.169388 4.907554 -0.000781
-0.296020 0.372714 119.246366
0.50000 0.169388 4.907554 -0.000781
-0.296020 0.373676 113.199701
0.75000 0.169388 4.907554 -0.000781
-0.296020 0.374639 107.153036
1.00000 0.169388 4.907554 -0.000781
-0.296020 0.375601 101.106371
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
295

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.701968 -22.936562 0.024651
1.061125 -0.639580 -584.497183
0.25000 -0.701968 -22.936562 0.024651
1.061125 -0.669952 -556.236728
0.50000 -0.701968 -22.936562 0.024651
1.061125 -0.700325 -527.976272
0.75000 -0.701968 -22.936562 0.024651
1.061125 -0.730698 -499.715817
1.00000 -0.701968 -22.936562 0.024651
1.061125 -0.761070 -471.455362

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 3.731451 45.385825 -0.336505
-5.243225 -0.711841 797.965620
0.25000 3.731451 45.385825 -0.336505
-5.243225 -0.297229 742.045116
0.50000 3.731451 45.385825 -0.336505
-5.243225 0.117383 686.124611
0.75000 3.731451 45.385825 -0.336505
-5.243225 0.531995 630.204107
1.00000 3.731451 45.385825 -0.336505
-5.243225 0.946607 574.283603

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.939453 -44.499993 0.358446
2.624884 1.309767 -318.113584
0.25000 0.939453 -44.499993 0.358446
2.624884 0.868121 -263.284526
0.50000 0.939453 -44.499993 0.358446
2.624884 0.426475 -208.455468
0.75000 0.939453 -44.499993 0.358446
2.624884 -0.015171 -153.626409
1.00000 0.939453 -44.499993 0.358446
2.624884 -0.456817 -98.797351

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.259338 21.117227 -0.021756
2.509418 0.309721 -24.840538
0.25000 0.259338 21.117227 -0.021756
2.509418 -0.363915 -50.819365
0.50000 0.259338 21.117227 -0.021756
2.509418 -0.337109 -76.838193
0.75000 0.259338 21.117227 -0.021756
2.509418 -0.310303 -102.857020
1.00000 0.259338 21.117227 -0.021756
2.509418 -0.283497 -128.875848

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.397663 -3.974051 -0.024055
-0.656181 0.060623 4.152654
0.25000 -4.397663 -3.974051 -0.024055
-0.656181 0.090262 9.049137
0.50000 -4.397663 -3.974051 -0.024055
-0.656181 0.119900 13.945620
0.75000 -4.397663 -3.974051 -0.024055
-0.656181 0.149538 18.842104
1.00000 -4.397663 -3.974051 -0.024055
-0.656181 0.179176 23.738587

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 4.160177 71.410606 -0.359042
-3.029827 -0.730811 898.458114
0.25000 4.160177 71.410606 -0.359042
-3.029827 -0.288431 810.472117
0.50000 4.160177 71.410606 -0.359042
-3.029827 0.153950 722.486120
0.75000 4.160177 71.410606 -0.359042
-3.029827 0.596330 634.500123
1.00000 4.160177 71.410606 -0.359042
-3.029827 1.038711 546.514126
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
296

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.160177 -71.410606 0.359042
3.029827 0.730811 -898.458114
0.25000 -4.160177 -71.410606 0.359042
3.029827 0.288431 -810.472117
0.50000 -4.160177 -71.410606 0.359042
3.029827 -0.153950 -722.486120
0.75000 -4.160177 -71.410606 0.359042
3.029827 -0.596330 -634.500123
1.00000 -4.160177 -71.410606 0.359042
3.029827 -1.038711 -546.514126

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 4.160177 71.410606 0.359042
3.029827 1.309767 898.458114
0.25000 4.160177 71.410606 0.359042
3.029827 0.868121 810.472117
0.50000 4.160177 71.410606 0.359042
3.029827 0.426475 722.486120
0.75000 4.160177 71.410606 0.359042
3.029827 0.596330 634.500123
1.00000 4.160177 71.410606 0.359042
3.029827 1.038711 574.283603

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -4.397663 -71.410606 -0.359042
-5.243225 -0.730811 -898.458114
0.25000 -4.397663 -71.410606 -0.359042
-5.243225 -0.669952 -810.472117
0.50000 -4.397663 -71.410606 -0.359042
-5.243225 -0.700325 -722.486120
0.75000 -4.397663 -71.410606 -0.359042
-5.243225 -0.730698 -634.500123
1.00000 -4.397663 -71.410606 -0.359042
-5.243225 -1.038711 -546.514126

ELEM 131 ========== LENGTH = 4.928188

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.173179 4.837981 0.003378
-0.043111 0.385355 101.106600
0.25000 0.173179 4.837981 0.003378
-0.043111 0.381193 95.145980
0.50000 0.173179 4.837981 0.003378
-0.043111 0.377032 89.185361
0.75000 0.173179 4.837981 0.003378
-0.043111 0.372870 83.224741
1.00000 0.173179 4.837981 0.003378
-0.043111 0.368708 77.264122

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.731783 -22.575394 0.014116
0.096818 -0.833563 -471.453769
0.25000 -0.731783 -22.575394 0.014116
0.096818 -0.850954 -443.639825
0.50000 -0.731783 -22.575394 0.014116
0.096818 -0.868345 -415.825880
0.75000 -0.731783 -22.575394 0.014116
0.096818 -0.885736 -388.011936
1.00000 -0.731783 -22.575394 0.014116
0.096818 -0.903127 -360.197991

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 3.276305 44.827584 -0.317857
-4.512516 -0.147720 574.372763
0.25000 3.276305 44.827584 -0.317857
-4.512516 0.243895 519.143077
0.50000 3.276305 44.827584 -0.317857
-4.512516 0.635510 463.913392
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
297

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 3.276305 44.827584 -0.317857
-4.512516 1.027125 408.683706
1.00000 3.276305 44.827584 -0.317857
-4.512516 1.418740 353.454021

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.519794 -44.258971 0.345439
2.971171 0.939872 -98.894547
0.25000 1.519794 -44.258971 0.345439
2.971171 0.514276 -44.365420
0.50000 1.519794 -44.258971 0.345439
2.971171 0.088679 10.163708
0.75000 1.519794 -44.258971 0.345439
2.971171 -0.336917 64.692835
1.00000 1.519794 -44.258971 0.345439
2.971171 -0.762514 119.221962

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.145002 21.111862 -0.019056
1.914295 -0.559311 -128.870111
0.25000 0.145002 21.111862 -0.019056
1.914295 -0.535833 -154.880914
0.50000 0.145002 21.111862 -0.019056
1.914295 -0.512355 -180.891718
0.75000 0.145002 21.111862 -0.019056
1.914295 -0.488877 -206.902521
1.00000 0.145002 21.111862 -0.019056
1.914295 -0.465400 -232.913325

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -4.382497 -3.943062 -0.026019
-0.426657 0.215366 23.739064
0.25000 -4.382497 -3.943062 -0.026019
-0.426657 0.247423 28.597101
0.50000 -4.382497 -3.943062 -0.026019
-0.426657 0.279479 33.455138
0.75000 -4.382497 -3.943062 -0.026019
-0.426657 0.311535 38.313175
1.00000 -4.382497 -3.943062 -0.026019
-0.426657 0.343592 43.171212

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3

0.00000	3.594486	70.777426	-0.333535
-2.641333	-0.321676	546.609252	
0.25000	3.594486	70.777426	-0.333535
-2.641333	0.089255	459.408143	
0.50000	3.594486	70.777426	-0.333535
-2.641333	0.500186	372.207035	
0.75000	3.594486	70.777426	-0.333535
-2.641333	0.911117	285.005926	
1.00000	3.594486	70.777426	-0.333535
-2.641333	1.322049	197.804817	

LOAD -2N+2-

REL DIST T	P M2	V2 M3	V3
0.00000	-3.594486	-70.777426	0.333535
2.641333	0.321676	-546.609252	
0.25000	-3.594486	-70.777426	0.333535
2.641333	-0.089255	-459.408143	
0.50000	-3.594486	-70.777426	0.333535
2.641333	-0.500186	-372.207035	
0.75000	-3.594486	-70.777426	0.333535
2.641333	-0.911117	-285.005926	
1.00000	-3.594486	-70.777426	0.333535
2.641333	-1.322049	-197.804817	

COMB SETTLE MAX

REL DIST T	P M2	V2 M3	V3
0.00000	3.594486	70.777426	0.345439
2.971171	0.939872	574.372763	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	3.594486	70.777426	0.345439
2.971171	0.514276	519.143077	
0.50000	3.594486	70.777426	0.345439
2.971171	0.635510	463.913392	
0.75000	3.594486	70.777426	0.345439
2.971171	1.027125	408.683706	
1.00000	3.594486	70.777426	0.345439
2.971171	1.418740	353.454021	

COMB SETTLE MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-4.382497	-70.777426	-0.333535
-4.512516	-0.833563	-546.609252	
0.25000	-4.382497	-70.777426	-0.333535
-4.512516	-0.850954	-459.408143	
0.50000	-4.382497	-70.777426	-0.333535
-4.512516	-0.868345	-415.825880	
0.75000	-4.382497	-70.777426	-0.333535
-4.512516	-0.911117	-388.011936	
1.00000	-4.382497	-70.777426	-0.333535
-4.512516	-1.322049	-360.197991	

ELEM 132 ========== LENGTH = 4.928029

LOAD -A1

REL DIST T	P M2	V2 M3	V3
0.00000	0.162657	4.807330	0.003710
0.241878	0.343670	77.265093	
0.25000	0.162657	4.807330	0.003710
0.241878	0.339099	71.342428	
0.50000	0.162657	4.807330	0.003710
0.241878	0.334528	65.419762	
0.75000	0.162657	4.807330	0.003710
0.241878	0.329957	59.497097	
1.00000	0.162657	4.807330	0.003710
0.241878	0.325386	53.574431	

LOAD -P1

REL DIST T	P M2	V2 M3	V3
0.00000	-0.691146	-22.419561	0.021655
-1.123579	-0.805197	-360.201127	
0.25000	-0.691146	-22.419561	0.021655
-1.123579	-0.831876	-332.580063	
0.50000	-0.691146	-22.419561	0.021655
-1.123579	-0.858556	-304.959000	
0.75000	-0.691146	-22.419561	0.021655
-1.123579	-0.885235	-277.337936	
1.00000	-0.691146	-22.419561	0.021655
-1.123579	-0.911915	-249.716872	

LOAD -P2

REL DIST T	P M2	V2 M3	V3
0.00000	2.742479	44.622753	-0.324647
-3.525092	0.534641	353.552107	
0.25000	2.742479	44.622753	-0.324647
-3.525092	0.534609	298.576548	
0.50000	2.742479	44.622753	-0.324647
-3.525092	0.934577	243.600990	
0.75000	2.742479	44.622753	-0.324647
-3.525092	1.334545	188.625431	
1.00000	2.742479	44.622753	-0.324647
-3.525092	1.734513	133.649872	

LOAD -P3

REL DIST T	P M2	V2 M3	V3
0.00000	2.100124	-44.253463	0.334682
3.572501	0.633591	119.121087	
0.25000	2.100124	-44.253463	0.334682
3.572501	0.221261	173.641678	
0.50000	2.100124	-44.253463	0.334682
3.572501	-0.191070	228.162269	
0.75000	2.100124	-44.253463	0.334682
3.572501	-0.603401	282.682860	
1.00000	2.100124	-44.253463	0.334682
3.572501	-1.015732	337.203451	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4

REL DIST T	P M2	V2 M3	V3
0.00000	0.061292	21.176595	-0.009682
0.995709	-0.667271	-232.908908	
0.25000	0.061292	21.176595	-0.009682
0.995709	-0.655342	-258.998629	
0.50000	0.061292	21.176595	-0.009682
0.995709	-0.643414	-285.088349	
0.75000	0.061292	21.176595	-0.009682
0.995709	-0.631485	-311.178070	
1.00000	0.061292	21.176595	-0.009682
0.995709	-0.619556	-337.267791	

LOAD -P5

REL DIST T	P M2	V2 M3	V3
0.00000	-4.375407	-3.933654	-0.025718
-0.161417	0.360576	43.171748	
0.25000	-4.375407	-3.933654	-0.025718
-0.161417	0.392250	48.018038	
0.50000	-4.375407	-3.933654	-0.025718
-0.161417	0.423935	52.864328	
0.75000	-4.375407	-3.933654	-0.025718
-0.161417	0.455619	57.710619	
1.00000	-4.375407	-3.933654	-0.025718
-0.161417	0.487303	62.556909	

LOAD -2N+1-

REL DIST T	P M2	V2 M3	V3
0.00000	2.966428	70.606678	-0.330620
-2.287504	-0.188960	197.908292	
0.25000	2.966428	70.606678	-0.330620
-2.287504	0.218365	110.920347	
0.50000	2.966428	70.606678	-0.330620
-2.287504	0.625691	23.932402	
0.75000	2.966428	70.606678	-0.330620
-2.287504	1.033017	-63.055542	
1.00000	2.966428	70.606678	-0.330620
-2.287504	1.440343	-150.043487	

LOAD -2N+2-

REL DIST T	P M2	V2 M3	V3
0.00000	-2.966428	-70.606678	0.330620
2.287504	0.188960	-197.908292	
0.25000	-2.966428	-70.606678	0.330620
2.287504	-0.218365	-110.920347	
0.50000	-2.966428	-70.606678	0.330620
2.287504	-0.625691	-23.932402	
0.75000	-2.966428	-70.606678	0.330620
2.287504	-1.033017	63.055542	
1.00000	-2.966428	-70.606678	0.330620
2.287504	-1.440343	150.043487	

COMB SETTLE MAX

REL DIST T	P M2	V2 M3	V3
0.00000	2.966428	70.606678	0.334682
3.572501	0.633591	353.552107	
0.25000	2.966428	70.606678	0.334682
3.572501	0.534609	298.576548	
0.50000	2.966428	70.606678	0.334682
3.572501	0.934577	243.600990	
0.75000	2.966428	70.606678	0.334682
3.572501	1.334545	282.682860	
1.00000	2.966428	70.606678	0.334682
3.572501	1.734513	337.203451	

COMB SETTLE MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-4.375407	-70.606678	-0.330620
-3.525092	-0.805197	-360.201127	
0.25000	-4.375407	-70.606678	-0.330620
-3.525092	-0.831876	-332.580063	
0.50000	-4.375407	-70.606678	-0.330620
-3.525092	-0.858556	-304.959000	
0.75000	-4.375407	-70.606678	-0.330620
-3.525092	-1.033017	-311.178070	
1.00000	-4.375407	-70.606678	-0.330620
-3.525092	-1.440343	-337.267791	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 133 ========== LENGTH = 4.928005

LOAD -A1

REL DIST T	P M2	V2 M3	V3
0.00000	0.141630	4.793242	0.003319
0.443893	0.274898	53.575782	
0.25000	0.141630	4.793242	0.003319
0.443893	0.270808	47.670502	
0.50000	0.141630	4.793242	0.003319
0.443893	0.266719	41.765222	
0.75000	0.141630	4.793242	0.003319
0.443893	0.262630	35.859942	
1.00000	0.141630	4.793242	0.003319
0.443893	0.258540	29.954662	

LOAD -P1

REL DIST T	P M2	V2 M3	V3
0.00000	-0.598677	-22.349850	0.030370
-2.008778	-0.688988	-249.722583	
0.25000	-0.598677	-22.349850	0.030370
-2.008778	-0.726405	-222.187541	
0.50000	-0.598677	-22.349850	0.030370
-2.008778	-0.763821	-194.652498	
0.75000	-0.598677	-22.349850	0.030370
-2.008778	-0.801237	-167.117455	
1.00000	-0.598677	-22.349850	0.030370
-2.008778	-0.838654	-139.582412	

LOAD -P2

REL DIST T	P M2	V2 M3	V3
0.00000	2.169878	44.626086	-0.340175
-2.915848	0.356293	133.748072	
0.25000	2.169878	44.626086	-0.340175
-2.915848	0.775389	78.768678	
0.50000	2.169878	44.626086	-0.340175
-2.915848	1.194485	23.789284	
0.75000	2.169878	44.626086	-0.340175
-2.915848	1.613581	-31.190110	
1.00000	2.169878	44.626086	-0.340175
-2.915848	2.032677	-86.169504	

LOAD -P3

REL DIST T	P M2	V2 M3	V3
0.00000	2.639876	-44.450592	0.334211
4.373254	0.283244	337.106323	
0.25000	2.639876	-44.450592	0.334211
4.373254	-0.128504	391.869508	
0.50000	2.639876	-44.450592	0.334211
4.373254	-0.540252	446.632693	
0.75000	2.639876	-44.450592	0.334211
4.373254	-0.952000	501.395877	
1.00000	2.639876	-44.450592	0.334211
4.373254	-1.363748	556.159062	

LOAD -P4

REL DIST T	P M2	V2 M3	V3
0.00000	0.026776	21.320007	-0.001285
-0.017064	-0.702994	-337.265176	
0.25000	0.026776	21.320007	-0.001285
-0.017064	-0.701411	-363.531450	
0.50000	0.026776	21.320007	-0.001285
-0.017064	-0.699827	-389.797725	
0.75000	0.026776	21.320007	-0.001285
-0.017064	-0.698244	-416.064000	
1.00000	0.026776	21.320007	-0.001285
-0.017064	-0.696660	-442.330274	

LOAD -P5

REL DIST T	P M2	V2 M3	V3
0.00000	-4.379482	-3.938893	-0.026440
0.124543	0.477547	62.557582	
0.25000	-4.379482	-3.938893	-0.026440
0.124543	0.510121	67.410303	
0.50000	-4.379482	-3.938893	-0.026440
0.124543	0.542695	72.263024	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	-4.379482	-3.938893	-0.026440
0.124543	0.575270	77.115745	
1.00000	-4.379482	-3.938893	-0.026440
0.124543	0.607844	81.968466	

LOAD -2N+1-

REL DIST T	P M2	V2 M3	V3
0.00000	2.338284	70.739335	-0.338141
-2.489020	-0.071803	-149.941322	
0.25000	2.338284	70.739335	-0.338141
-2.489020	0.344787	-237.092270	
0.50000	2.338284	70.739335	-0.338141
-2.489020	0.761377	-324.243219	
0.75000	2.338284	70.739335	-0.338141
-2.489020	1.177967	-411.394168	
1.00000	2.338284	70.739335	-0.338141
-2.489020	1.594557	-498.545116	

LOAD -2N+2-

REL DIST T	P M2	V2 M3	V3
0.00000	-2.338284	-70.739335	0.338141
2.489020	0.071803	149.941322	
0.25000	-2.338284	-70.739335	0.338141
2.489020	-0.344787	237.092270	
0.50000	-2.338284	-70.739335	0.338141
2.489020	-0.761377	324.243219	
0.75000	-2.338284	-70.739335	0.338141
2.489020	-1.177967	411.394168	
1.00000	-2.338284	-70.739335	0.338141
2.489020	-1.594557	498.545116	

COMB SETTLE MAX

REL DIST T	P M2	V2 M3	V3
0.00000	2.639876	70.739335	0.338141
4.373254	0.477547	337.106323	
0.25000	2.639876	70.739335	0.338141
4.373254	0.775389	391.869508	
0.50000	2.639876	70.739335	0.338141
4.373254	1.194485	446.632693	
0.75000	2.639876	70.739335	0.338141
4.373254	1.613581	501.395877	
1.00000	2.639876	70.739335	0.338141
4.373254	2.032677	556.159062	

COMB SETTLE MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-4.379482	-70.739335	-0.340175
-2.915848	-0.702994	-337.265176	
0.25000	-4.379482	-70.739335	-0.340175
-2.915848	-0.726405	-363.531450	
0.50000	-4.379482	-70.739335	-0.340175
-2.915848	-0.763821	-389.797725	
0.75000	-4.379482	-70.739335	-0.340175
-2.915848	-1.177967	-416.064000	
1.00000	-4.379482	-70.739335	-0.340175
-2.915848	-1.594557	-498.545116	

ELEM 134 ========== LENGTH = 4.928104

LOAD -A1

REL DIST T	P M2	V2 M3	V3
0.00000	0.114068	4.793537	0.003488
0.591044	0.192181	29.956008	
0.25000	0.114068	4.793537	0.003488
0.591044	0.187884	24.050245	
0.50000	0.114068	4.793537	0.003488
0.591044	0.183587	18.144483	
0.75000	0.114068	4.793537	0.003488
0.591044	0.179290	12.238721	
1.00000	0.114068	4.793537	0.003488
0.591044	0.174992	6.332959	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1

REL DIST T	P M2	V2 M3	V3
0.00000	-0.473651	-22.350191	0.033027
-2.664437	-0.537139	-139.586599	
0.25000	-0.473651	-22.350191	0.033027
-2.664437	-0.577830	-112.052583	
0.50000	-0.473651	-22.350191	0.033027
-2.664437	-0.618520	-84.516567	
0.75000	-0.473651	-22.350191	0.033027
-2.664437	-0.659210	-56.980551	
1.00000	-0.473651	-22.350191	0.033027
-2.664437	-0.699901	-29.444534	

LOAD -P2

REL DIST T	P M2	V2 M3	V3
0.00000	1.595741	44.863125	-0.357619
-2.542184	0.651204	-86.072882	
0.25000	1.595741	44.863125	-0.357619
-2.542184	1.091801	-141.345417	
0.50000	1.595741	44.863125	-0.357619
-2.542184	1.532397	-196.617952	
0.75000	1.595741	44.863125	-0.357619
-2.542184	1.972993	-251.890487	
1.00000	1.595741	44.863125	-0.357619
-2.542184	2.413590	-307.163022	

LOAD -P3

REL DIST T	P M2	V2 M3	V3
0.00000	3.102843	-45.002462	0.352676
5.155930	-0.250877	556.068089	
0.25000	3.102843	-45.002462	0.352676
5.155930	-0.685383	611.512291	
0.50000	3.102843	-45.002462	0.352676
5.155930	-1.119890	666.956492	
0.75000	3.102843	-45.002462	0.352676
5.155930	-1.554397	722.400694	
1.00000	3.102843	-45.002462	0.352676
5.155930	-1.988903	777.844895	

LOAD -P4

REL DIST T	P M2	V2 M3	V3
0.00000	0.058708	21.667864	-0.008762
-0.978071	-0.619429	-442.332267	
0.25000	0.058708	21.667864	-0.008762
-0.978071	-0.608634	-469.027638	
0.50000	0.058708	21.667864	-0.008762
-0.978071	-0.597840	-495.723009	
0.75000	0.058708	21.667864	-0.008762
-0.978071	-0.587045	-522.418380	
1.00000	0.058708	21.667864	-0.008762
-0.978071	-0.576251	-549.113751	

LOAD -P5

REL DIST T	P M2	V2 M3	V3
0.00000	-4.397709	-3.971873	-0.022811
0.437719	0.564059	81.969951	
0.25000	-4.397709	-3.971873	-0.022811
0.437719	0.592163	86.863102	
0.50000	-4.397709	-3.971873	-0.022811
0.437719	0.620266	91.756552	
0.75000	-4.397709	-3.971873	-0.022811
0.437719	0.648369	96.650003	
1.00000	-4.397709	-3.971873	-0.022811
0.437719	0.676472	101.543453	

LOAD -2N+1-

REL DIST T	P M2	V2 M3	V3
0.00000	1.768517	71.324526	-0.362893
-2.929211	0.223957	-498.449141	
0.25000	1.768517	71.324526	-0.362893
-2.929211	0.671050	-586.322809	
0.50000	1.768517	71.324526	-0.362893
-2.929211	1.118144	-674.196478	
0.75000	1.768517	71.324526	-0.362893
-2.929211	1.565238	-762.070146	
1.00000	1.768517	71.324526	-0.362893
-2.929211	2.012331	-849.943814	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2-

REL DIST T	P M2	V2 M3	V3
0.00000	-1.768517	-71.324526	0.362893
2.929211	-0.223957	498.449141	
0.25000	-1.768517	-71.324526	0.362893
2.929211	-0.671050	586.322809	
0.50000	-1.768517	-71.324526	0.362893
2.929211	-1.118144	674.196478	
0.75000	-1.768517	-71.324526	0.362893
2.929211	-1.565238	762.070146	
1.00000	-1.768517	-71.324526	0.362893
2.929211	-2.012331	849.943814	

COMB SETTLE MAX

REL DIST T	P M2	V2 M3	V3
0.00000	3.102843	71.324526	0.362893
5.155930	0.651204	556.068089	
0.25000	3.102843	71.324526	0.362893
5.155930	1.091801	611.512291	
0.50000	3.102843	71.324526	0.362893
5.155930	1.532397	674.196478	
0.75000	3.102843	71.324526	0.362893
5.155930	1.972993	762.070146	
1.00000	3.102843	71.324526	0.362893
5.155930	2.413590	849.943814	

COMB SETTLE MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-4.397709	-71.324526	-0.362893
-2.929211	-0.619429	-498.449141	
0.25000	-4.397709	-71.324526	-0.362893
-2.929211	-0.685383	-586.322809	
0.50000	-4.397709	-71.324526	-0.362893
-2.929211	-1.119890	-674.196478	
0.75000	-4.397709	-71.324526	-0.362893
-2.929211	-1.565238	-762.070146	
1.00000	-4.397709	-71.324526	-0.362893
-2.929211	-2.012331	-849.943814	

ELEM 135 ========== LENGTH = 4.928318

LOAD -A1

REL DIST T	P M2	V2 M3	V3
0.00000	0.084129	4.808674	0.003568
0.666117	0.102868	6.334220	
0.25000	0.084129	4.808674	0.003568
0.666117	0.098472	0.409551	
0.50000	0.084129	4.808674	0.003568
0.666117	0.094075	-5.515118	
0.75000	0.084129	4.808674	0.003568
0.666117	0.089679	-11.439788	
1.00000	0.084129	4.808674	0.003568
0.666117	0.085283	-17.364457	

LOAD -P1

REL DIST T	P M2	V2 M3	V3
0.00000	-0.336180	-22.422108	0.031951
-3.002544	-0.368493	-29.450595	
0.25000	-0.336180	-22.422108	0.031951
-3.002544	-0.407860	-1.824775	
0.50000	-0.336180	-22.422108	0.031951
-3.002544	-0.447226	25.801046	
0.75000	-0.336180	-22.422108	0.031951
-3.002544	-0.486592	53.426867	
1.00000	-0.336180	-22.422108	0.031951
-3.002544	-0.525958	81.052687	

LOAD -P2

REL DIST T	P M2	V2 M3	V3
0.00000	1.053217	45.346350	-0.376686
-2.279704	1.108681	-307.072887	
0.25000	1.053217	45.346350	-0.376686
-2.279704	1.572788	-362.943197	
0.50000	1.053217	45.346350	-0.376686
-2.279704	2.036895	-418.813507	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	1.053217	45.346350	-0.376686
-2.279704	2.501002	-474.683818	
1.00000	1.053217	45.346350	-0.376686
-2.279704	2.965109	-530.554128	

LOAD -P3

REL DIST T	P M2	V2 M3	V3
0.00000	3.465232	-45.887261	0.393074
5.544140	-1.119002	777.766219	
0.25000	3.465232	-45.887261	0.393074
5.544140	-1.603301	834.302975	
0.50000	3.465232	-45.887261	0.393074
5.544140	-2.087599	890.839730	
0.75000	3.465232	-45.887261	0.393074
5.544140	-2.571898	947.376485	
1.00000	3.465232	-45.887261	0.393074
5.544140	-3.056197	1003.913	

LOAD -P4

REL DIST T	P M2	V2 M3	V3
0.00000	0.164522	22.166295	-0.037341
-1.705973	-0.320626	-549.122207	
0.25000	0.164522	22.166295	-0.037341
-1.705973	-0.274619	-576.432846	
0.50000	0.164522	22.166295	-0.037341
-1.705973	-0.228612	-603.743485	
0.75000	0.164522	22.166295	-0.037341
-1.705973	-0.182606	-631.054124	
1.00000	0.164522	22.166295	-0.037341
-1.705973	-0.136599	-658.364762	

LOAD -P5

REL DIST T	P M2	V2 M3	V3
0.00000	-4.430920	-4.011951	-0.014566
0.777964	0.596573	101.545250	
0.25000	-4.430920	-4.011951	-0.014566

```
 0.777964    0.614520  106.488292
 0.50000    -4.430920   -4.011951   -0.014566
 0.777964    0.632467  111.431335
 0.75000    -4.430920   -4.011951   -0.014566
 0.777964    0.650414  116.374377
 1.00000    -4.430920   -4.011951   -0.014566
 0.777964    0.668361  121.317420

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    1.301868   72.321319   -0.410459
-3.319561   0.890922  -849.860874
 0.25000    1.301868   72.321319   -0.410459
-3.319561   1.396640  -938.966492
 0.50000    1.301868   72.321319   -0.410459
-3.319561   1.902358  -1028.072
 0.75000    1.301868   72.321319   -0.410459
-3.319561   2.408076  -1117.178
 1.00000    1.301868   72.321319   -0.410459
-3.319561   2.913794  -1206.283

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -1.301868  -72.321319    0.410459
 3.319561  -0.890922   849.860874
 0.25000   -1.301868  -72.321319    0.410459
 3.319561  -1.396640   938.966492
 0.50000   -1.301868  -72.321319    0.410459
 3.319561  -1.902358   1028.072
 0.75000   -1.301868  -72.321319    0.410459
 3.319561  -2.408076   1117.178
 1.00000   -1.301868  -72.321319    0.410459
 3.319561  -2.913794   1206.283

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.465232   72.321319    0.410459
 5.544140   1.108681   849.860874
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL            SETTLEMENT              >
                                       305

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
 0.25000    3.465232   72.321319    0.410459
 5.544140   1.572788   938.966492
 0.50000    3.465232   72.321319    0.410459
 5.544140   2.036895   1028.072
 0.75000    3.465232   72.321319    0.410459
 5.544140   2.501002   1117.178
 1.00000    3.465232   72.321319    0.410459
 5.544140   2.965109   1206.283

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.430920  -72.321319   -0.410459
-3.319561  -1.119002  -849.860874
 0.25000   -4.430920  -72.321319   -0.410459
-3.319561  -1.603301  -938.966492
 0.50000   -4.430920  -72.321319   -0.410459
-3.319561  -2.087599  -1028.072
 0.75000   -4.430920  -72.321319   -0.410459
-3.319561  -2.571898  -1117.178
 1.00000   -4.430920  -72.321319   -0.410459
-3.319561  -3.056197  -1206.283

ELEM      136 ================== LENGTH
=    4.927666

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.055333   4.833891    0.002927
 0.660435   0.015808  -17.363675
 0.25000    0.055333   4.833891    0.002927
 0.660435   0.012202  -23.318625
 0.50000    0.055333   4.833891    0.002927
 0.660435   0.008596  -29.273575
 0.75000    0.055333   4.833891    0.002927
 0.660435   0.004990  -35.228525
 1.00000    0.055333   4.833891    0.002927
 0.660435   0.001384  -41.183475

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.203300  -22.543642    0.027947
-2.979630  -0.205301   81.048722
 0.25000   -0.203300  -22.543642    0.027947
-2.979630  -0.239730   108.820606
 0.50000   -0.203300  -22.543642    0.027947
-2.979630  -0.274159   136.592490
 0.75000   -0.203300  -22.543642    0.027947
-2.979630  -0.308588   164.364374
 1.00000   -0.203300  -22.543642    0.027947
-2.979630  -0.343016   192.136258

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.571069   46.262030   -0.355877
-1.818555   1.804729  -530.474596
 0.25000    0.571069   46.262030   -0.355877
-1.818555   1.243140  -587.465552
 0.50000    0.571069   46.262030   -0.355877
-1.818555   2.681551  -644.456508
 0.75000    0.571069   46.262030   -0.355877
-1.818555   3.119962  -701.447464
 1.00000    0.571069   46.262030   -0.355877
-1.818555   3.558373  -758.438420

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.708071  -47.546277    0.371585
 4.835828  -2.047254   1003.853
 0.25000    3.708071  -47.546277    0.371585
 4.835828  -2.932016   1062.426
 0.50000    3.708071  -47.546277    0.371585
 4.835828  -3.389777   1120.999
 0.75000    3.708071  -47.546277    0.371585
 4.835828  -3.847539   1179.572
 1.00000    3.708071  -47.546277    0.371585
 4.835828  -4.305301   1238.145
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL            SETTLEMENT              >
                                       306

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.347984   23.091809   -0.040441
-1.806638   0.306981  -658.382737
 0.25000    0.347984   23.091809   -0.040441
-1.806638   0.356802  -686.829916
 0.50000    0.347984   23.091809   -0.040441
-1.806638   0.406622  -715.277095
 0.75000    0.347984   23.091809   -0.040441
-1.806638   0.456443  -743.724274
 1.00000    0.347984   23.091809   -0.040441
-1.806638   0.506263  -772.171453

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.479157  -4.097811   -0.006141
 1.108561   0.552037  121.319623
 0.25000   -4.479157  -4.097811   -0.006141
 1.108561   0.559602  126.367783
 0.50000   -4.479157  -4.097811   -0.006141
 1.108561   0.567167  131.415944
 0.75000   -4.479157  -4.097811   -0.006141
 1.108561   0.574733  136.464105
 1.00000   -4.479157  -4.097811   -0.006141
 1.108561   0.582298  141.512266

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.974386  74.187730   -0.393392
-2.964758   2.127518  -1206.221
 0.25000    0.974386  74.187730   -0.393392
-2.964758   2.612143  -1297.614
 0.50000    0.974386  74.187730   -0.393392
-2.964758   3.096769  -1389.007
 0.75000    0.974386  74.187730   -0.393392
-2.964758   3.581394  -1480.400
 1.00000    0.974386  74.187730   -0.393392
-2.964758   4.066020  -1571.793

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.974386  -74.187730    0.393392
 2.964758  -2.127518   1206.221
 0.25000   -0.974386  -74.187730    0.393392
 2.964758  -2.612143   1297.614
 0.50000   -0.974386  -74.187730    0.393392
 2.964758  -3.096769   1389.007
 0.75000   -0.974386  -74.187730    0.393392
 2.964758  -3.581394   1480.400
 1.00000   -0.974386  -74.187730    0.393392
 2.964758  -4.066020   1571.793

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.708071   74.187730    0.393392
 4.835828   2.127518   1206.221
 0.25000    3.708071   74.187730    0.393392
 4.835828   2.612143   1297.614
 0.50000    3.708071   74.187730    0.393392
 4.835828   3.096769   1389.007
 0.75000    3.708071   74.187730    0.393392
 4.835828   3.581394   1480.400
 1.00000    3.708071   74.187730    0.393392
 4.835828   4.066020   1571.793

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.479157  -74.187730   -0.393392
-2.979630  -2.474254  -1206.221
 0.25000   -4.479157  -74.187730   -0.393392
-2.979630  -2.932016  -1297.614
 0.50000   -4.479157  -74.187730   -0.393392
-2.979630  -3.389777  -1389.007
 0.75000   -4.479157  -74.187730   -0.393392
-2.979630  -3.847539  -1480.400
 1.00000   -4.479157  -74.187730   -0.393392
-2.979630  -4.305301  -1571.793
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL            SETTLEMENT              >
                                       307

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      137 ================== LENGTH
=    3.449731

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.028351   4.876815    0.005456
 0.627687  -0.062737  -41.182216
 0.25000    0.028351   4.876815    0.005456
 0.627687  -0.067442  -45.384141
 0.50000    0.028351   4.876815    0.005456
 0.627687  -0.072148  -49.594065
 0.75000    0.028351   4.876815    0.005456
 0.627687  -0.076853  -53.799990
 1.00000    0.028351   4.876815    0.005456
 0.627687  -0.081559  -58.005915

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.078669  -22.749852    0.000829
-2.841676   0.046805   192.130158
 0.25000   -0.078669  -22.749852    0.000829
-2.841676   -0.047519  211.750374
 0.50000   -0.078669  -22.749852    0.000829
-2.841676   -0.048234  231.370590
 0.75000   -0.078669  -22.749852    0.000829
-2.841676   0.048949   250.990806
 1.00000   -0.078669  -22.749852    0.000829
-2.841676   -0.049663  270.611022

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.141774   47.599182   -0.175456
-0.469081   2.540199  -758.369739
 0.25000    0.141774   47.599182   -0.175456
-0.469081   2.691517  -799.420829
 0.50000    0.141774   47.599182   -0.175456
-0.469081   2.842836  -840.471919
 0.75000    0.141774   47.599182   -0.175456
-0.469081   2.994155  -881.523010
 1.00000    0.141774   47.599182   -0.175456
-0.469081   3.145474  -922.574100

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.820662  -49.899053    0.139992
 1.980159  -4.040756   1238.110
 0.25000    3.820662  -49.899053    0.139992
 1.980159  -4.161490   1281.144
 0.50000    3.820662  -49.899053    0.139992
 1.980159  -4.282224   1324.179
 0.75000    3.820662  -49.899053    0.139992
 1.980159  -4.402958   1367.213
 1.00000    3.820662  -49.899053    0.139992
 1.980159  -4.523692   1410.248

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.635916   24.389163    0.038160
-0.606728   1.191640  -772.204539
 0.25000    0.635916   24.389163    0.038160
-0.606728   1.158729  -793.238550
 0.50000    0.635916   24.389163    0.038160
-0.606728   1.125819  -814.272562
 0.75000    0.635916   24.389163    0.038160
-0.606728   1.092908  -835.306573
 1.00000    0.635916   24.389163    0.038160
-0.606728   1.059997  -856.340584

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.548034  -4.216255   -0.008982
 1.309639   0.418459  141.516802
 0.25000   -4.548034  -4.216255   -0.008982
 1.309639   0.426205  145.153038
 0.50000   -4.548034  -4.216255   -0.008982
 1.309639   0.433951  148.789274
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL            SETTLEMENT              >
                                       308

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
 0.75000   -4.548034  -4.216255   -0.008982
 1.309639   0.441697  152.425510
 1.00000   -4.548034  -4.216255   -0.008982
 1.309639   0.449443  156.061746

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.806042  76.865160   -0.131839
-0.448122   3.669102  -1571.756
 0.25000    0.806042  76.865160   -0.131839
-0.448122   3.782804  -1638.048
 0.50000    0.806042  76.865160   -0.131839
-0.448122   3.896507  -1704.339
 0.75000    0.806042  76.865160   -0.131839
-0.448122   4.010210  -1770.630
 1.00000    0.806042  76.865160   -0.131839
-0.448122   4.123912  -1836.921

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.806042  -76.865160    0.131839
 0.448122  -3.669102   1571.756
 0.25000   -0.806042  -76.865160    0.131839
 0.448122  -3.782804   1638.048
 0.50000   -0.806042  -76.865160    0.131839
 0.448122  -3.896507   1704.339
 0.75000   -0.806042  -76.865160    0.131839
 0.448122  -4.010210   1770.630
 1.00000   -0.806042  -76.865160    0.131839
 0.448122  -4.123912   1836.921

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.820662  76.865160    0.139992
 1.980159   3.669102  1571.756
 0.25000    3.820662  76.865160    0.139992
 1.980159   3.782804  1638.048
 0.50000    3.820662  76.865160    0.139992
 1.980159   3.896507  1704.339
 0.75000    3.820662  76.865160    0.139992
 1.980159   4.010210  1770.630
 1.00000    3.820662  76.865160    0.139992
 1.980159   4.123912  1836.921

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.548034  -76.865160   -0.175456
-2.841676  -4.040756  -1571.756
 0.25000   -4.548034  -76.865160   -0.175456
-2.841676  -4.161490  -1638.048
 0.50000   -4.548034  -76.865160   -0.175456
-2.841676  -4.282224  -1704.339
 0.75000   -4.548034  -76.865160   -0.175456
-2.841676  -4.402958  -1770.630
 1.00000   -4.548034  -76.865160   -0.175456
-2.841676  -4.523692  -1836.921

ELEM      138 ================== LENGTH
=    3.450023

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.003675  -1.523331    0.005288
 0.551887  -0.139419  -58.004662
 0.25000    0.003675  -1.523331    0.005288
 0.551887  -0.143980  -56.690781
 0.50000    0.003675  -1.523331    0.005288
 0.551887  -0.148541  -55.376899
 0.75000    0.003675  -1.523331    0.005288
 0.551887  -0.153102  -54.063018
 1.00000    0.003675  -1.523331    0.005288
 0.551887  -0.157663  -52.749137
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL            SETTLEMENT              >
                                       309

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.035062   7.122579   -0.017314
-2.520558   0.217135   270.605098
 0.25000    0.035062   7.122579   -0.017314
-2.520558   0.232069   264.461832
 0.50000    0.035062   7.122579   -0.017314
-2.520558   0.247002   258.318567
 0.75000    0.035062   7.122579   -0.017314
-2.520558   0.261936   252.175302
 1.00000    0.035062   7.122579   -0.017314
-2.520558   0.276869   246.032037

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.242112  -25.832752    0.029581
 1.354734   2.245568  -922.521458
 0.25000   -0.242112  -25.832752    0.029581
 1.354734   2.220054  -900.240563
 0.50000   -0.242112  -25.832752    0.029581
 1.354734   2.194541  -877.959668
 0.75000   -0.242112  -25.832752    0.029581
 1.354734   2.169027  -855.678773
 1.00000   -0.242112  -25.832752    0.029581
 1.354734   2.143514  -833.397878

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.824528  48.891597   -0.205361
-2.054014  -4.514418   1410.247
 0.25000    3.824528  48.891597   -0.205361
-2.054014  -4.337293   1368.077
 0.50000    3.824528  48.891597   -0.205361
-2.054014  -4.160168   1325.908
 0.75000    3.824528  48.891597   -0.205361
-2.054014  -3.983043   1283.739
 1.00000    3.824528  48.891597   -0.205361
-2.054014  -3.805918   1241.570

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    1.013344  -41.734729    0.220846
 1.301460   1.944409  -856.394431
 0.25000    1.013344  -41.734729    0.220846
 1.301460   1.753928  -820.397990
 0.50000    1.013344  -41.734729    0.220846
 1.301460   1.563446  -784.401549
 0.75000    1.013344  -41.734729    0.220846
 1.301460   1.372965  -748.405109
 1.00000    1.013344  -41.734729    0.220846
 1.301460   1.182484  -712.408668

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.634499  13.076634   -0.033040
 1.366492   0.246726  156.068797
 0.25000   -4.634499  13.076634   -0.033040
 1.366492   0.275223  144.790125
 0.50000   -4.634499  13.076634   -0.033040
 1.366492   0.303720  133.511454
 0.75000   -4.634499  13.076634   -0.033040
 1.366492   0.332218  122.232782
 1.00000   -4.634499  13.076634   -0.033040
 1.366492   0.360715  110.954111

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.774908  -69.090811    0.255715
 3.208081   4.050557   -1836.921
 0.25000    0.774908  -69.090811    0.255715
 3.208081   3.830002   -1777.329
 0.50000    0.774908  -69.090811    0.255715
 3.208081   3.609446   -1717.738
 0.75000    0.774908  -69.090811    0.255715
 3.208081   3.388890   -1658.147
 1.00000    0.774908  -69.090811    0.255715
 3.208081   3.168334   -1598.556
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL            SETTLEMENT              >
                                       310

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.774908  69.090811   -0.255715
-3.208081  -4.050557   1836.921
 0.25000   -0.774908  69.090811   -0.255715
-3.208081  -3.830002   1777.329
 0.50000   -0.774908  69.090811   -0.255715
-3.208081  -3.609446   1717.738
 0.75000   -0.774908  69.090811   -0.255715
-3.208081  -3.388890   1658.147
 1.00000   -0.774908  69.090811   -0.255715
-3.208081  -3.168334   1598.556

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.824528  69.090811    0.255715
 3.208081   4.050557   1836.921
 0.25000    3.824528  69.090811    0.255715
 3.208081   3.830002   1777.329
 0.50000    3.824528  69.090811    0.255715
 3.208081   3.609446   1717.738
 0.75000    3.824528  69.090811    0.255715
 3.208081   3.388890   1658.147
 1.00000    3.824528  69.090811    0.255715
 3.208081   3.168334   1598.556

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -4.634499  -69.090811   -0.255715
-3.208081  -4.514418   -1836.921
 0.25000   -4.634499  -69.090811   -0.255715
-3.208081  -4.337293   -1777.329
 0.50000   -4.634499  -69.090811   -0.255715
-3.208081  -4.160168   -1717.738
 0.75000   -4.634499  -69.090811   -0.255715
-3.208081  -3.983043   -1658.147
 1.00000   -4.634499  -69.090811   -0.255715
-3.208081  -3.805918   -1598.556

ELEM      139 ================== LENGTH
=    4.927989

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.015257  -1.493950    0.001068
 0.436211  -0.202660  -52.748498
 0.25000   -0.015257  -1.493950    0.001068
 0.436211  -0.205375  -50.907955
 0.50000   -0.015257  -1.493950    0.001068
 0.436211  -0.205291  -49.067412
 0.75000   -0.015257  -1.493950    0.001068
 0.436211  -0.206606  -47.226870
 1.00000   -0.015257  -1.493950    0.001068
 0.436211  -0.207921  -45.386327

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    0.121761   6.977402   -0.012710
-2.005608   0.483187   246.029114
 0.25000    0.121761   6.977402   -0.012710
-2.005608   0.498846   237.432974
 0.50000    0.121761   6.977402   -0.012710
-2.005608   0.514505   228.836833
 0.75000    0.121761   6.977402   -0.012710
-2.005608   0.530164   220.240693
 1.00000    0.121761   6.977402   -0.012710
-2.005608   0.545824   211.644552

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000   -0.530296  -24.506296    0.116968
 2.441255  1.457050   -833.366603
 0.25000   -0.530296  -24.506296    0.116968
 2.441255  1.312946   -803.174914
 0.50000   -0.530296  -24.506296    0.116968
 2.441255  1.168842   -772.983224
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL            SETTLEMENT              >
                                       311

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2         M3
 0.75000   -0.530296  -24.506296    0.116968
 2.441255  1.024738   -742.791534
 1.00000   -0.530296  -24.506296    0.116968
 2.441255  0.880634   -712.599845

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    3.718974  46.547820   -0.431239
-4.961189  -4.053247   1241.602
 0.25000    3.718974  46.547820   -0.431239
-4.961189  -3.521962   1184.256
 0.50000    3.718974  46.547820   -0.431239
-4.961189  -2.990677   1126.909
 0.75000    3.718974  46.547820   -0.431239
-4.961189  -2.459392   1069.562
 1.00000    3.718974  46.547820   -0.431239
-4.961189  -1.928107   1012.215

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2         M3
 0.00000    1.431441  -40.456006   0.386604
 2.734548   2.173688  -712.478249
 0.25000    1.431441  -40.456006   0.386604
 2.734548   1.697393  -662.636560
 0.50000    1.431441  -40.456006   0.386604
 2.734548   1.221097  -612.794872
```

```
 0.75000     1.431441   -40.456006     0.386604
 2.734548    0.744801  -562.953184
 1.00000     1.431441   -40.456006     0.386604
 2.734548    0.268506  -513.111495

LOAD      -P5 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -4.726622   12.931030   -0.060691
 1.354782    0.141981  110.961892
 0.25000   -4.726622   12.931030   -0.060691
 1.354782    0.216752   95.030898
 0.50000   -4.726622   12.931030   -0.060691
 1.354782    0.291523   79.099905
 0.75000   -4.726622   12.931030   -0.060691
 1.354782    0.366294   63.168911
 1.00000   -4.726622   12.931030   -0.060691
 1.354782    0.441065   47.237918

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   0.885888   -66.456252     0.504640
 5.612015  3.428079    -1598.593
 0.25000   0.885888   -66.456252     0.504640
 5.612015  2.806364    -1516.719
 0.50000   0.885888   -66.456252     0.504640
 5.612015  2.184649    -1434.846
 0.75000   0.885888   -66.456252     0.504640
 5.612015  1.562934    -1352.972
 1.00000   0.885888   -66.456252     0.504640
 5.612015  0.941219    -1271.098

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.885888    66.456252    -0.504640
-5.612015 -3.428079    1598.593
 0.25000  -0.885888    66.456252    -0.504640
-5.612015 -2.806364    1516.719
 0.50000  -0.885888    66.456252    -0.504640
-5.612015 -2.184649    1434.846
 0.75000  -0.885888    66.456252    -0.504640
-5.612015 -1.562934    1352.972
 1.00000  -0.885888    66.456252    -0.504640
-5.612015 -0.941219    1271.098

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   3.718974   66.456252     0.504640
 5.612015  3.428079    1598.593
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      312

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.25000   3.718974   66.456252     0.504640
 5.612015  2.806364    1516.719
 0.50000   3.718974   66.456252     0.504640
 5.612015  2.184649    1434.846
 0.75000   3.718974   66.456252     0.504640
 5.612015  1.562934    1352.972
 1.00000   3.718974   66.456252     0.504640
 5.612015  0.941219    1271.098

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -4.726622   -66.456252    -0.504640
-5.612015 -4.053247    -1598.593
 0.25000  -4.726622   -66.456252    -0.504640
-5.612015 -3.521962    -1516.719
 0.50000  -4.726622   -66.456252    -0.504640
-5.612015 -2.990677    -1434.846
 0.75000  -4.726622   -66.456252    -0.504640
-5.612015 -2.459392    -1352.972
 1.00000  -4.726622   -66.456252    -0.504640
-5.612015 -1.928107    -1271.098

ELEM      140 ================== LENGTH
=     4.928729

LOAD      -A1 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.027397   -1.471362    -0.002466
 0.292556 -0.237165   -45.386343
 0.25000  -0.027397   -1.471362    -0.002466
 0.292556 -0.234126   -43.573356
 0.50000  -0.027397   -1.471362    -0.002466
 0.292556 -0.231087   -41.760370
 0.75000  -0.027397   -1.471362    -0.002466
 0.292556 -0.228048   -39.947383
 1.00000  -0.027397   -1.471362    -0.002466
 0.292556 -0.225009   -38.134397

LOAD      -P1 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   0.176441    6.866573    -0.002857
-1.353060  0.677870   211.644786
 0.25000   0.176441    6.866573    -0.002857
-1.353060  0.681390   203.183917
 0.50000   0.176441    6.866573    -0.002857
-1.353060  0.684910   194.723048
 0.75000   0.176441    6.866573    -0.002857
-1.353060  0.688430   186.262178
 1.00000   0.176441    6.866573    -0.002857
-1.353060  0.691949   177.801309

LOAD      -P2 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.705743   -23.561997     0.115666
 2.251349  0.455554   -712.585473
 0.25000  -0.705743   -23.561997     0.115666
 2.251349  0.313032   -683.552797
 0.50000  -0.705743   -23.561997     0.115666
 2.251349  0.170511   -654.520121
 0.75000  -0.705743   -23.561997     0.115666
 2.251349  0.027989   -625.487444
 1.00000  -0.705743   -23.561997     0.115666
 2.251349  -0.114533  -596.454768

LOAD      -P3 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   3.482644   44.891856    -0.450246
-5.802324 -2.493841    1012.275
 0.25000   3.482644   44.891856    -0.450246
-5.802324 -1.939056   956.959693
 0.50000   3.482644   44.891856    -0.450246
-5.802324 -1.384272   901.644742
 0.75000   3.482644   44.891856    -0.450246
-5.802324 -0.829487   846.329791
 1.00000   3.482644   44.891856    -0.450246
-5.802324 -0.274702   791.014840
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      313

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   1.896923   -39.570742     0.400898
 3.298574  1.388595   -513.192898
 0.25000   1.896923   -39.570742     0.400898
 3.298574  0.894616   -464.434530
 0.50000   1.896923   -39.570742     0.400898
 3.298574  0.400637   -415.676162
 0.75000   1.896923   -39.570742     0.400898
 3.298574  -0.093342  -366.917793
 1.00000   1.896923   -39.570742     0.400898
 3.298574  -0.587321  -318.159425

LOAD      -P5 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -4.822869   12.845673    -0.060995
 1.312905  0.208987   47.245284
 0.25000  -4.822869   12.845673    -0.060995
 1.312905  0.284144   31.417073
 0.50000  -4.822869   12.845673    -0.060995
 1.312905  0.359301   15.588863
 0.75000  -4.822869   12.845673    -0.060995
 1.312905  0.434458   -0.239348
 1.00000  -4.822869   12.845673    -0.060995
 1.312905  0.509615   -16.067559

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   1.163783   -64.604101     0.514097
 5.842479  1.606984   -1271.165
 0.25000   1.163783   -64.604101     0.514097
 5.842479  0.973523   -1191.561
 0.50000   1.163783   -64.604101     0.514097
 5.842479  0.340061   -1111.957
 0.75000   1.163783   -64.604101     0.514097
 5.842479  -0.293401  -1032.353
 1.00000   1.163783   -64.604101     0.514097
 5.842479  -0.926862  -952.748591

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -1.163783    64.604101    -0.514097
-5.842479 -1.606984    1271.165
 0.25000  -1.163783    64.604101    -0.514097
-5.842479 -0.973523    1191.561
 0.50000  -1.163783    64.604101    -0.514097
-5.842479 -0.340061    1111.957
 0.75000  -1.163783    64.604101    -0.514097
-5.842479  0.293401    1032.353
 1.00000  -1.163783    64.604101    -0.514097
-5.842479  0.926862    952.748591

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   3.482644   64.604101     0.514097
 5.842479  1.606984    1271.165
 0.25000   3.482644   64.604101     0.514097
 5.842479  0.973523    1191.561
 0.50000   3.482644   64.604101     0.514097
 5.842479  0.684910    1111.957
 0.75000   3.482644   64.604101     0.514097
 5.842479  0.688430    1032.353
 1.00000   3.482644   64.604101     0.514097
 5.842479  0.926862    952.748591

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -4.822869   -64.604101    -0.514097
-5.842479 -2.493841   -1271.165
 0.25000  -4.822869   -64.604101    -0.514097
-5.842479 -1.939056   -1191.561
 0.50000  -4.822869   -64.604101    -0.514097
-5.842479 -1.384272   -1111.957
 0.75000  -4.822869   -64.604101    -0.514097
-5.842479 -0.829487   -1032.353
 1.00000  -4.822869   -64.604101    -0.514097
-5.842479 -0.926862   -952.748591
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      314

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      141 ================== LENGTH
=     4.927664

LOAD      -A1 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.034493   -1.460405    -0.006791
 0.138070 -0.242015   -38.134514
 0.25000  -0.034493   -1.460405    -0.006791
 0.138070 -0.233650   -36.335418
 0.50000  -0.034493   -1.460405    -0.006791
 0.138070 -0.225284   -34.536322
 0.75000  -0.034493   -1.460405    -0.006791
 0.138070 -0.216918   -32.737226
 1.00000  -0.034493   -1.460405    -0.006791
 0.138070 -0.208552   -30.938130

LOAD      -P1 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   0.207219    6.811944     0.015904
-0.643987  0.766031   177.802136
 0.25000   0.207219    6.811944     0.015904
-0.643987  0.744439   169.410393
 0.50000   0.207219    6.811944     0.015904
-0.643987  0.726846   161.018650
 0.75000   0.207219    6.811944     0.015904
-0.643987  0.707254   152.626906
 1.00000   0.207219    6.811944     0.015904
-0.643987  0.687662   144.235163

LOAD      -P2 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.796448   -23.043715     0.088334
 1.093495 -0.334728   -596.452261
 0.25000  -0.796448   -23.043715     0.088334
 1.093495 -0.443548   -568.062338
 0.50000  -0.796448   -23.043715     0.088334
 1.093495 -0.552368   -539.674414
 0.75000  -0.796448   -23.043715     0.088334
 1.093495 -0.661188   -511.286491
 1.00000  -0.796448   -23.043715     0.088334
 1.093495 -0.770008   -482.898567

LOAD      -P3 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   3.125807   43.989858    -0.437501
-5.034133 -1.129809   791.094397
 0.25000   3.125807   43.989858    -0.437501
-5.034133 -0.590844   736.902583
 0.50000   3.125807   43.989858    -0.437501
-5.034133 -0.051879   682.710769
 0.75000   3.125807   43.989858    -0.437501
-5.034133  0.487086   628.518956
 1.00000   3.125807   43.989858    -0.437501
-5.034133  1.026051   574.327142

LOAD      -P4 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.420677   -39.097632     0.392681
 3.342871  0.671537   -318.252202
 0.25000   2.420677   -39.097632     0.392681
 3.342871  0.187787   -270.087200
 0.50000   2.420677   -39.097632     0.392681
 3.342871  -0.295963  -221.922198
 0.75000   2.420677   -39.097632     0.392681
 3.342871  -0.779713  -173.757197
 1.00000   2.420677   -39.097632     0.392681
 3.342871  -1.263463  -125.592195

LOAD      -P5 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -4.922762   12.799950    -0.052627
 1.103684  0.268984   -16.059556
 0.25000  -4.922762   12.799950    -0.052627
 1.103684  0.333816   -31.828021
 0.50000  -4.922762   12.799950    -0.052627
 1.103684  0.398647   -47.596485
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      315

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.75000  -4.922762   12.799950    -0.052627
 1.103684  0.463479   -63.364949
 1.00000  -4.922762   12.799950    -0.052627
 1.103684  0.528310   -79.133413

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   1.589736   -63.601752     0.474224
 4.574436  0.094794   -952.836977
 0.25000   1.589736   -63.601752     0.474224
 4.574436  -0.489411  -874.484955
 0.50000   1.589736   -63.601752     0.474224
 4.574436  -1.073615  -796.132934
 0.75000   1.589736   -63.601752     0.474224
 4.574436  -1.657819  -717.780913
 1.00000   1.589736   -63.601752     0.474224
 4.574436  -2.242023  -639.428892

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -1.589736    63.601752    -0.474224
-4.574436 -0.094794    952.836977
 0.25000  -1.589736    63.601752    -0.474224
-4.574436  0.489411    874.484955
 0.50000  -1.589736    63.601752    -0.474224
-4.574436  1.073615    796.132934
 0.75000  -1.589736    63.601752    -0.474224
-4.574436  1.657819    717.780913
 1.00000  -1.589736    63.601752    -0.474224
-4.574436  2.242023    639.428892

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   3.125807   63.601752     0.474224
 4.574436  0.766031    952.836977
 0.25000   3.125807   63.601752     0.474224
 4.574436  0.746439    874.484955
 0.50000   3.125807   63.601752     0.474224
 4.574436  1.073615    796.132934
 0.75000   3.125807   63.601752     0.474224
 4.574436  1.657819    717.780913
 1.00000   3.125807   63.601752     0.474224
 4.574436  2.242023    639.428892

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -4.922762   -63.601752    -0.474224
-5.034133 -1.129809   -952.836977
 0.25000  -4.922762   -63.601752    -0.474224
-5.034133 -0.590844   -874.484955
 0.50000  -4.922762   -63.601752    -0.474224
-5.034133 -0.073615   -796.132934
 0.75000  -4.922762   -63.601752    -0.474224
-5.034133 -1.657819   -717.780913
 1.00000  -4.922762   -63.601752    -0.474224
-5.034133 -2.242023   -639.428892

ELEM      142 ================== LENGTH
=     4.928648

LOAD      -A1 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.036740   -1.449539    -0.012694
 0.027205 -0.213821   -30.938215
 0.25000  -0.036740   -1.449539    -0.012694
 0.027205 -0.198180   -29.152148
 0.50000  -0.036740   -1.449539    -0.012694
 0.027205 -0.182539   -27.366081
 0.75000  -0.036740   -1.449539    -0.012694
 0.027205 -0.166898   -25.580014
 1.00000  -0.036740   -1.449539    -0.012694
 0.027205 -0.151256   -23.793946
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      316

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   0.215091    6.759243     0.043942
-0.133656  0.706251   144.235933
 0.25000   0.215091    6.759243     0.043942
-0.133656  0.652108   135.907451
 0.50000   0.215091    6.759243     0.043942
-0.133656  0.597964   127.578969
 0.75000   0.215091    6.759243     0.043942
-0.133656  0.543820   119.250487
 1.00000   0.215091    6.759243     0.043942
-0.133656  0.489676   110.922005

LOAD      -P2 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.806846   -22.690456     0.088927
 0.019333 -0.796245   -482.899639
 0.25000  -0.806846   -22.690456     0.088927
 0.019333 -0.905817   -454.941321
 0.50000  -0.806846   -22.690456     0.088927
 0.019333 -1.015389   -426.983003
 0.75000  -0.806846   -22.690456     0.088927
 0.019333 -1.124961   -399.024685
 1.00000  -0.806846   -22.690456     0.088927
 0.019333 -1.234533   -371.066367

LOAD      -P3 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.668143   43.442767    -0.472917
-4.187384 -0.072987   574.415271
 0.25000   2.668143   43.442767    -0.472917
-4.187384  0.509723   520.886744
 0.50000   2.668143   43.442767    -0.472917
-4.187384  1.092433   467.358217
 0.75000   2.668143   43.442767    -0.472917
-4.187384  1.675143   413.829690
 1.00000   2.668143   43.442767    -0.472917
-4.187384  2.257853   360.301163

LOAD      -P4 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.976727   -38.864088     0.387165
 3.512749  0.074259   -125.688913
 0.25000   2.976727   -38.864088     0.387165
 3.512749  -0.402792  -77.802061
 0.50000   2.976727   -38.864088     0.387165
 3.512749  -0.879842  -29.915208
 0.75000   2.976727   -38.864088     0.387165
 3.512749  -1.356893  17.971645
 1.00000   2.976727   -38.864088     0.387165
 3.512749  -1.833943  65.858498

LOAD      -P5 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -5.016375   12.802073    -0.034423
 0.761753  0.302543   -79.124438
 0.25000  -5.016375   12.802073    -0.034423
 0.761753  0.344958   -94.898666
 0.50000  -5.016375   12.802073    -0.034423
 0.761753  0.387373   -110.672895
 0.75000  -5.016375   12.802073    -0.034423
 0.761753  0.429788   -126.447123
 1.00000  -5.016375   12.802073    -0.034423
 0.761753  0.472203   -142.221352

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.133142   -63.004083     0.463398
 3.559287  -0.935807   -639.526767
 0.25000   2.133142   -63.004083     0.463398
 3.559287  -1.506789   -561.895529
 0.50000   2.133142   -63.004083     0.463398
 3.559287  -2.077770   -484.264291
 0.75000   2.133142   -63.004083     0.463398
 3.559287  -2.648752   -406.633054
 1.00000   2.133142   -63.004083     0.463398
 3.559287  -3.219733   -329.001816
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      317

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -2.133142    63.004083    -0.463398
-3.559287  0.935807    639.526767
 0.25000  -2.133142    63.004083    -0.463398
-3.559287  1.506789    561.895529
 0.50000  -2.133142    63.004083    -0.463398
-3.559287  2.077770    484.264291
 0.75000  -2.133142    63.004083    -0.463398
-3.559287  2.648752    406.633054
 1.00000  -2.133142    63.004083    -0.463398
-3.559287  3.219733    329.001816

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.976727   63.004083     0.463398
 3.559287  0.935807    639.526767
 0.25000   2.976727   63.004083     0.463398
 3.559287  1.506789    561.895529
 0.50000   2.976727   63.004083     0.463398
 3.559287  2.077770    484.264291
 0.75000   2.976727   63.004083     0.463398
 3.559287  2.648752    413.829690
 1.00000   2.976727   63.004083     0.463398
 3.559287  3.219733    360.301163

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -5.016375   -63.004083    -0.472917
-4.187384 -0.935807   -639.526767
 0.25000  -5.016375   -63.004083    -0.472917
-4.187384 -1.506789   -561.895529
 0.50000  -5.016375   -63.004083    -0.472917
-4.187384 -2.077770   -484.264291
 0.75000  -5.016375   -63.004083    -0.472917
-4.187384 -2.648752   -406.633054
 1.00000  -5.016375   -63.004083    -0.472917
-4.187384 -3.219733   -371.066367

ELEM      143 ================== LENGTH
=     4.927751

LOAD      -A1 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.034573   -1.444812    -0.020233
-0.059909 -0.145785   -23.794197
 0.25000  -0.034573   -1.444812    -0.020233
-0.059909 -0.120860   -22.014278
 0.50000  -0.034573   -1.444812    -0.020233
-0.059909 -0.095935   -20.234359
 0.75000  -0.034573   -1.444812    -0.020233
-0.059909 -0.071009   -18.454441
 1.00000  -0.034573   -1.444812    -0.020233
-0.059909 -0.046084   -16.674522

LOAD      -P1 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   0.202146    6.736171     0.079640
 0.269083  0.457579   110.923609
 0.25000   0.202146    6.736171     0.079640
 0.269083  0.359467   102.625066
 0.50000   0.202146    6.736171     0.079640
 0.269083  0.261356   94.326522
 0.75000   0.202146    6.736171     0.079640
 0.269083  0.163245   86.027979
 1.00000   0.202146    6.736171     0.079640
 0.269083  0.065133   77.729435

LOAD      -P2 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000  -0.745134   -22.547331     0.111654
-1.191341 -1.086505   -371.072426
 0.25000  -0.745134   -22.547331     0.111654
-1.191341 -1.224056   -343.295519
 0.50000  -0.745134   -22.547331     0.111654
-1.191341 -1.361607   -315.518611
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      318

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.75000  -0.745134   -22.547331     0.111654
-1.191341 -1.499158   -287.741703
 1.00000  -0.745134   -22.547331     0.111654
-1.191341 -1.636709   -259.964796

LOAD      -P3 -------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   2.131750   43.262094    -0.564913
-3.078598  0.969199   360.396124
 0.25000   2.131750   43.262094    -0.564913
-3.078598  1.665136   307.099919
 0.50000   2.131750   43.262094    -0.564913
-3.078598  2.361073   253.803715
 0.75000   2.131750   43.262094    -0.564913
-3.078598  3.057010   200.507510
 1.00000   2.131750   43.262094    -0.564913
```

```
-3.078598     3.752947   147.211306

LOAD      -P4 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    3.538457   -38.858330    0.402472
 3.763691   -0.482736    65.759840
0.25000    3.538457   -38.858330    0.402472
 3.763691   -0.978556   113.630881
0.50000    3.538457   -38.858330    0.402472
 3.763691   -1.474376   161.501923
0.75000    3.538457   -38.858330    0.402472
 3.763691   -1.970196   209.372964
1.00000    3.538457   -38.858330    0.402472
 3.763691   -2.466016   257.244005

LOAD      -P5 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.092645   12.852208   -0.008620
 0.297074    0.288249  -142.212950
0.25000   -5.092645   12.852208   -0.008620
 0.297074    0.298869  -158.046070
0.50000   -5.092645   12.852208   -0.008620
 0.297074    0.309488  -173.879189
0.75000   -5.092645   12.852208   -0.008620
 0.297074    0.320108  -189.712309
1.00000   -5.092645   12.852208   -0.008620
 0.297074    0.330728  -205.545428

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    2.758750   -62.850473    0.493893
 2.512441   -1.715026   329.106783
0.25000    2.758750   -62.850473    0.493893
 2.512441   -2.323472   251.678915
0.50000    2.758750   -62.850473    0.493893
 2.512441   -2.931918   174.251048
0.75000    2.758750   -62.850473    0.493893
 2.512441   -3.540363    96.823180
1.00000    2.758750   -62.850473    0.493893
 2.512441   -4.148809   -19.395313

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -2.758750   62.850473   -0.493893
-2.512441   1.715026  329.106783
0.25000   -2.758750   62.850473   -0.493893
-2.512441   2.323472  251.678915
0.50000   -2.758750   62.850473   -0.493893
-2.512441   2.931918  174.251048
0.75000   -2.758750   62.850473   -0.493893
-2.512441   3.540363   96.823180
1.00000   -2.758750   62.850473   -0.493893
-2.512441   4.148809   19.395313

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    3.538457   62.850473    0.493893
 3.763691   1.715026  360.396124
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       319

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.25000    3.538457   62.850473    0.493893
 3.763691   2.323472  307.099919
0.50000    3.538457   62.850473    0.493893
 3.763691   2.931918  253.803715
0.75000    3.538457   62.850473    0.493893
 3.763691   3.540363  209.372964
1.00000    3.538457   62.850473    0.493893
 3.763691   4.148809  257.244005

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.092645   -62.850473   -0.564913
-3.078598   -1.715026  -371.072426
0.25000   -5.092645   -62.850473   -0.564913
-3.078598   -2.323472  -343.295519
0.50000   -5.092645   -62.850473   -0.564913
-3.078598   -2.931918  -315.518611
0.75000   -5.092645   -62.850473   -0.564913
-3.078598   -3.540363  -287.741703
1.00000   -5.092645   -62.850473   -0.564913
-3.078598   -4.148809  -259.964796

ELEM      144 ================== LENGTH
=    4.929075

LOAD      -A1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.029040   -1.438851   -0.022856
-0.105001   -0.032447   -16.674894
0.25000   -0.029040   -1.438851   -0.022856
-0.105001   -0.004282   -14.901844
0.50000   -0.029040   -1.438851   -0.022856
-0.105001    0.023883   -13.128793
0.75000   -0.029040   -1.438851   -0.022856
-0.105001    0.052047   -11.355742
1.00000   -0.029040   -1.438851   -0.022856
-0.105001    0.080212    -9.582692

LOAD      -P1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.173338    6.707997    0.092112
 0.478042   -0.005462   77.731648
0.25000    0.173338    6.707997    0.092112
 0.478042   -0.118969   69.465593
0.50000    0.173338    6.707997    0.092112
 0.478042   -0.232475   61.199538
0.75000    0.173338    6.707997    0.092112
 0.478042   -0.345982   52.933484
1.00000    0.173338    6.707997    0.092112
 0.478042   -0.459488   44.667429

LOAD      -P2 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.630417   -22.485052    0.126213
-2.306726   -1.361147  -259.972017
0.25000   -0.630417   -22.485052    0.126213
-2.306726   -1.516675  -232.264391
0.50000   -0.630417   -22.485052    0.126213
-2.306726   -1.672204  -204.556764
0.75000   -0.630417   -22.485052    0.126213
-2.306726   -1.827733  -176.849138
1.00000   -0.630417   -22.485052    0.126213
-2.306726   -1.983261  -149.141511

LOAD      -P3 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    1.554922   43.311766   -0.602581
-1.919923   2.367864  147.307486
0.25000    1.554922   43.311766   -0.602581
-1.919923   3.110406   93.935751
0.50000    1.554922   43.311766   -0.602581
-1.919923   3.852949   40.564016
0.75000    1.554922   43.311766   -0.602581
-1.919923   4.595491  -12.807719
1.00000    1.554922   43.311766   -0.602581
-1.919923   5.338034  -66.179454
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       320

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.071698   -39.062141    0.399931
 4.169900   -1.184037   257.146138
0.25000    4.071698   -39.062141    0.399931
 4.169900   -1.676859   305.281193
0.50000    4.071698   -39.062141    0.399931
 4.169900   -2.169682   353.416248
0.75000    4.071698   -39.062141    0.399931
 4.169900   -2.662504   401.551304
1.00000    4.071698   -39.062141    0.399931
 4.169900   -3.155326   449.686359

LOAD      -P5 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.140500   12.966281    0.007182
-0.316293    0.215229  -205.538360
0.25000   -5.140500   12.966281    0.007182
-0.316293    0.206379  -221.516303
0.50000   -5.140500   12.966281    0.007182
-0.316293    0.197529  -237.494246
0.75000   -5.140500   12.966281    0.007182
-0.316293    0.188680  -253.472188
1.00000   -5.140500   12.966281    0.007182
-0.316293    0.179830  -269.450131

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    3.412240   -62.986043    0.503288
 1.758174   -2.577631   -19.500773
0.25000    3.412240   -62.986043    0.503288
 1.758174   -3.197817    58.114959
0.50000    3.412240   -62.986043    0.503288
 1.758174   -3.818003   135.730691
0.75000    3.412240   -62.986043    0.503288
 1.758174   -4.438189   213.346424
1.00000    3.412240   -62.986043    0.503288
 1.758174   -5.058375   290.962156

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -3.412240   62.986043   -0.503288
-1.758174   2.577631  -19.500773
0.25000   -3.412240   62.986043   -0.503288
-1.758174   3.197817  -58.114959
0.50000   -3.412240   62.986043   -0.503288
-1.758174   3.818003  -135.730691
0.75000   -3.412240   62.986043   -0.503288
-1.758174   4.438189  -213.346424
1.00000   -3.412240   62.986043   -0.503288
-1.758174   5.058375  -290.962156

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.071698   62.986043    0.503288
 4.169900   2.577631  257.146138
0.25000    4.071698   62.986043    0.503288
 4.169900   3.197817  305.281193
0.50000    4.071698   62.986043    0.503288
 4.169900   3.852949  353.416248
0.75000    4.071698   62.986043    0.503288
 4.169900   4.595491  401.551304
1.00000    4.071698   62.986043    0.503288
 4.169900   5.338034  449.686359

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.140500   -62.986043   -0.602581
-2.306726   -2.577631  -259.972017
0.25000   -5.140500   -62.986043   -0.602581
-2.306726   -3.197817  -232.264391
0.50000   -5.140500   -62.986043   -0.602581
-2.306726   -3.818003  -204.556764
0.75000   -5.140500   -62.986043   -0.602581
-2.306726   -4.438189  -176.849138
1.00000   -5.140500   -62.986043   -0.602581
-2.306726   -5.058375  -149.141511
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       321

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      145 ================== LENGTH
=    4.927365

LOAD      -A1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.021147   -1.432874   -0.006801
-0.086425    0.099417   -9.583395
0.25000   -0.021147   -1.432874   -0.006801
-0.086425    0.107794   -7.818322
0.50000   -0.021147   -1.432874   -0.006801
-0.086425    0.116172   -6.053249
0.75000   -0.021147   -1.432874   -0.006801
-0.086425    0.124550   -4.288176
1.00000   -0.021147   -1.432874   -0.006801
-0.086425    0.132928   -2.523103

LOAD      -P1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.133444    6.680084    0.017478
 0.391479   -0.556271   44.671198
0.25000    0.133444    6.680084    0.017478
 0.391479   -0.577802   36.442394
0.50000    0.133444    6.680084    0.017478
 0.391479   -0.599332   28.213591
0.75000    0.133444    6.680084    0.017478
 0.391479   -0.620863   19.984788
1.00000    0.133444    6.680084    0.017478
 0.391479   -0.642394   11.755984

LOAD      -P2 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.483272   -22.502070    0.101299
-3.095933   -1.629026  -149.150023
0.25000   -0.483272   -22.502070    0.101299
-3.095933   -1.753810  -121.431042
0.50000   -0.483272   -22.502070    0.101299
-3.095933   -1.878594   -93.712061
0.75000   -0.483272   -22.502070    0.101299
-3.095933   -2.003378   -65.993080
1.00000   -0.483272   -22.502070    0.101299
-3.095933   -2.128162   -38.274099

LOAD      -P3 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.979067   43.628895   -0.447648
-0.647407   3.953326  -66.080639
0.25000    0.979067   43.628895   -0.447648
-0.647407   4.504757  -119.834516
0.50000    0.979067   43.628895   -0.447648
-0.647407   5.056188  -173.578392
0.75000    0.979067   43.628895   -0.447648
-0.647407   5.607619  -227.322269
1.00000    0.979067   43.628895   -0.447648
-0.647407   6.159049  -281.066146

LOAD      -P4 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.541565   -39.598119    0.372948
 4.118125   -2.025740   449.599415
0.25000    4.541565   -39.598119    0.372948
 4.118125   -2.485153   498.378017
0.50000    4.541565   -39.598119    0.372948
 4.118125   -2.944567   547.156618
0.75000    4.541565   -39.598119    0.372948
 4.118125   -3.403980   595.935219
1.00000    4.541565   -39.598119    0.372948
 4.118125   -3.863393   644.713820

LOAD      -P5 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.149657   13.224085   -0.037277
-0.679840    0.158295  -269.446556
0.25000   -5.149657   13.224085   -0.037277
-0.679840    0.204214  -285.736531
0.50000   -5.149657   13.224085   -0.037277
-0.679840    0.250133  -302.026507
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       322

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.75000   -5.149657   13.224085   -0.037277
-0.679840    0.296052  -318.316482
1.00000   -5.149657   13.224085   -0.037277
-0.679840    0.341972  -334.606457

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.037147   -63.533064    0.467446
 0.935768   -3.555350   290.865997
0.25000    4.037147   -63.533064    0.467446
 0.935768   -4.131169   369.128653
0.50000    4.037147   -63.533064    0.467446
 0.935768   -4.706989   447.391308
0.75000    4.037147   -63.533064    0.467446
 0.935768   -5.282808   525.653963
1.00000    4.037147   -63.533064    0.467446
 0.935768   -5.858627   603.916618

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.037147   63.533064   -0.467446
-0.935768    3.555350  -290.865997
0.25000   -4.037147   63.533064   -0.467446
-0.935768    4.131169  -369.128653
0.50000   -4.037147   63.533064   -0.467446
-0.935768    4.706989  -447.391308
0.75000   -4.037147   63.533064   -0.467446
-0.935768    5.282808  -525.653963
1.00000   -4.037147   63.533064   -0.467446
-0.935768    5.858627  -603.916618

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.541565   63.533064    0.467446
 4.118125   3.953326  449.599415
0.25000    4.541565   63.533064    0.467446
 4.118125   4.504757  498.378017
0.50000    4.541565   63.533064    0.467446
 4.118125   5.056188  547.156618
0.75000    4.541565   63.533064    0.467446
 4.118125   5.607619  595.935219
1.00000    4.541565   63.533064    0.467446
 4.118125   6.159049  644.713820

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.149657   -63.533064   -0.467446
-3.095933   -3.555350  -290.865997
0.25000   -5.149657   -63.533064   -0.467446
-3.095933   -4.131169  -369.128653
0.50000   -5.149657   -63.533064   -0.467446
-3.095933   -4.706989  -447.391308
0.75000   -5.149657   -63.533064   -0.467446
-3.095933   -5.282808  -525.653963
1.00000   -5.149657   -63.533064   -0.467446
-3.095933   -5.858627  -603.916618

ELEM      146 ================== LENGTH
=    4.928948

LOAD      -A1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.011987   -1.431853    0.034906
-0.016119    0.154819   -2.524140
0.25000   -0.011987   -1.431853    0.034906
-0.016119    0.111807   -0.759757
0.50000   -0.011987   -1.431853    0.034906
-0.016119    0.068795    1.004625
0.75000   -0.011987   -1.431853    0.034906
-0.016119    0.025783    2.769007
1.00000   -0.011987   -1.431853    0.034906
-0.016119   -0.017229    4.533389
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       323

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.087619    6.675490   -0.176093
 0.064899   -0.751771   11.761315
0.25000    0.087619    6.675490   -0.176093
 0.064899   -0.534783    3.535529
0.50000    0.087619    6.675490   -0.176093
 0.064899   -0.317795   -4.690256
0.75000    0.087619    6.675490   -0.176093
 0.064899   -0.100806  -12.916042
1.00000    0.087619    6.675490   -0.176093
 0.064899    0.116182  -21.141828

LOAD      -P2 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.324071   -22.585358    0.022101
-3.674992   -1.744675   -38.279235
0.25000   -0.324071   -22.585358    0.022101
-3.674992   -1.771909   -10.448720
0.50000   -0.324071   -22.585358    0.022101
-3.674992   -1.799142    17.381795
0.75000   -0.324071   -22.585358    0.022101
-3.674992   -1.826375    45.212310
1.00000   -0.324071   -22.585358    0.022101
-3.674992   -1.853609    73.042825

LOAD      -P3 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.435908   44.186884   -0.012240
 0.764105   4.851094  -280.988033
0.25000    0.435908   44.186884   -0.012240
 0.764105   4.866176  -335.436748
0.50000    0.435908   44.186884   -0.012240
 0.764105   4.881259  -389.885463
0.75000    0.435908   44.186884   -0.012240
 0.764105   4.896341  -444.334178
1.00000    0.435908   44.186884   -0.012240
 0.764105   4.911424  -498.782893

LOAD      -P4 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.928004   -40.492406    0.283505
 3.826100   -2.935519   644.637196
0.25000    4.928004   -40.492406    0.283505
 3.826100   -3.284865   694.533439
0.50000    4.928004   -40.492406    0.283505
 3.826100   -3.634210   744.429682
0.75000    4.928004   -40.492406    0.283505
 3.826100   -3.983555   794.325925
1.00000    4.928004   -40.492406    0.283505
 3.826100   -4.332900   844.222169

LOAD      -P5 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.115472   13.647244   -0.152179
-0.963992    0.426052  -334.607104
0.25000   -5.115472   13.647244   -0.152179
-0.963992    0.613573  -351.423743
0.50000   -5.115472   13.647244   -0.152179
-0.963992    0.801093  -368.240383
0.75000   -5.115472   13.647244   -0.152179
-0.963992    0.988613  -385.057023
1.00000   -5.115472   13.647244   -0.152179
-0.963992    1.176133  -401.873663

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.591945   -64.509618    0.340511
 0.134988   -4.525375   603.833821
0.25000    4.591945   -64.509618    0.340511
 0.134988   -4.944966   683.324961
0.50000    4.591945   -64.509618    0.340511
 0.134988   -5.364557   762.816102
0.75000    4.591945   -64.509618    0.340511
 0.134988   -5.784148   842.307242
1.00000    4.591945   -64.509618    0.340511
 0.134988   -6.203738   921.798383
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       324

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -4.591945   64.509618   -0.340511
-0.134988   4.525375  -603.833821
0.25000   -4.591945   64.509618   -0.340511
-0.134988   4.944966  -683.324961
0.50000   -4.591945   64.509618   -0.340511
-0.134988   5.364557  -762.816102
0.75000   -4.591945   64.509618   -0.340511
-0.134988   5.784148  -842.307242
1.00000   -4.591945   64.509618   -0.340511
-0.134988   6.203738  -921.798383

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    4.928004   64.509618    0.340511
 3.826100   4.851094  644.637196
0.25000    4.928004   64.509618    0.340511
 3.826100   4.944966  694.533439
0.50000    4.928004   64.509618    0.340511
 3.826100   5.364557  762.816102
0.75000    4.928004   64.509618    0.340511
 3.826100   5.784148  842.307242
1.00000    4.928004   64.509618    0.340511
 3.826100   6.203738  921.798383

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -5.115472   -64.509618   -0.340511
-3.674992   -4.525375  -603.833821
0.25000   -5.115472   -64.509618   -0.340511
-3.674992   -4.944966  -683.324961
0.50000   -5.115472   -64.509618   -0.340511
-3.674992   -5.364557  -762.816102
0.75000   -5.115472   -64.509618   -0.340511
-3.674992   -5.784148  -842.307242
1.00000   -5.115472   -64.509618   -0.340511
-3.674992   -6.203738  -921.798383

ELEM      147 ================== LENGTH
=    4.927537

LOAD      -A1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.002847   -1.454739    0.073145
 0.060591   0.004207    4.531978
0.25000   -0.002847   -1.454739    0.073145
 0.060591   -0.085900    6.324049
0.50000   -0.002847   -1.454739    0.073145
 0.060591   -0.176006    8.116120
0.75000   -0.002847   -1.454739    0.073145
 0.060591   -0.266113    9.908191
1.00000   -0.002847   -1.454739    0.073145
 0.060591   -0.356220   11.700262

LOAD      -P1 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.041977    6.782322   -0.352242
-0.290933    0.009093  -21.134777
0.25000    0.041977    6.782322   -0.352242
-0.290933    0.443015  -29.489813
0.50000    0.041977    6.782322   -0.352242
-0.290933    0.876936  -37.844849
0.75000    0.041977    6.782322   -0.352242
-0.290933    1.310857  -46.199885
1.00000    0.041977    6.782322   -0.352242
-0.290933    1.744779  -54.554921

LOAD      -P2 ------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.171074   -22.678099   -0.060746
-3.845619   -1.483645   73.039294
0.25000   -0.171074   -22.678099   -0.060746
-3.845619   -1.408813   100.976089
0.50000   -0.171074   -22.678099   -0.060746
-3.845619   -1.333981   128.912885
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       325

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.75000   -0.171074   -22.678099   -0.060746
-3.845619   -1.259149   156.849680
1.00000   -0.171074   -22.678099   -0.060746
-3.845619   -1.184317   184.786475

LOAD      -P3 ------------------
```

```
REL DIST          P          V2          V3
      T         M2          M3
0.00000   -0.044778   44.940827    0.423262
  2.380886   3.747448  -498.722324
0.25000   -0.044778   44.940827    0.423262
  2.380886   3.226038  -554.084225
0.50000   -0.044778   44.940827    0.423262
  2.380886   2.704628  -609.446126
0.75000   -0.044778   44.940827    0.423262
  2.380886   2.183217  -664.808027
1.00000   -0.044778   44.940827    0.423262
  2.380886   1.661807  -720.169928

LOAD      -P4 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.211201   -42.062363    0.150341
  2.010903  -3.651477   844.169117
0.25000    5.211201   -42.062363    0.150341
  2.010903  -3.836680   895.985084
0.50000    5.211201   -42.062363    0.150341
  2.010903  -4.021882   947.801050
0.75000    5.211201   -42.062363    0.150341
  2.010903  -4.207084   999.617017
1.00000    5.211201   -42.062363    0.150341
  2.010903  -4.392287   1051.433

LOAD      -P5 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.034480   14.472053   -0.233760
 -0.315828   1.374374  -401.883290
0.25000   -5.034480   14.472053   -0.233760
 -0.315828   1.662340  -419.711185
0.50000   -5.034480   14.472053   -0.233760
 -0.315828   1.950306  -437.539080
0.75000   -5.034480   14.472053   -0.233760
 -0.315828   2.238272  -455.366975
1.00000   -5.034480   14.472053   -0.233760
 -0.315828   2.526238  -473.194870

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.037280   -66.195201    0.162740
 -1.774125  -5.130916   921.740390
0.25000    5.037280   -66.195201    0.162740
 -1.774125  -5.331393   1003.285
0.50000    5.037280   -66.195201    0.162740
 -1.774125  -5.531869   1084.830
0.75000    5.037280   -66.195201    0.162740
 -1.774125  -5.732346   1166.375
1.00000    5.037280   -66.195201    0.162740
 -1.774125  -5.932823   1247.920

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.037280   66.195201   -0.162740
  1.774125  5.130916  -921.740390
0.25000   -5.037280   66.195201   -0.162740
  1.774125  5.331393  -1003.285
0.50000   -5.037280   66.195201   -0.162740
  1.774125  5.531869  -1084.830
0.75000   -5.037280   66.195201   -0.162740
  1.774125  5.732346  -1166.375
1.00000   -5.037280   66.195201   -0.162740
  1.774125  5.932823  -1247.920

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.211201   66.195201    0.423262
  2.380886   5.130916  921.740390
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       326

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T         M2          M3
0.25000    5.211201   66.195201    0.423262
  2.380886   5.331393  1003.285
0.50000    5.211201   66.195201    0.423262
  2.380886   5.531869  1084.830
0.75000    5.211201   66.195201    0.423262
  2.380886   5.732346  1166.375
1.00000    5.211201   66.195201    0.423262
  2.380886   5.932823  1247.920

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.037280   -66.195201   -0.352242
 -3.845619  -5.840316  -921.740390
0.25000   -5.037280   -66.195201   -0.352242
 -3.845619  -5.331393  -1003.285
0.50000   -5.037280   -66.195201   -0.352242
 -3.845619  -5.531869  -1084.830
0.75000   -5.037280   -66.195201   -0.352242
 -3.845619  -5.732346  -1166.375
1.00000   -5.037280   -66.195201   -0.352242
 -3.845619  -5.932823  -1247.920

ELEM      148 ================== LENGTH
=     3.450070

LOAD      -A1 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    0.005496   -1.563072    0.037682
 -0.039578  -0.336895   11.698979
0.25000    0.005496   -1.563072    0.037682
 -0.039578  -0.369396   13.047155
0.50000    0.005496   -1.563072    0.037682
 -0.039578  -0.401898   14.395331
0.75000    0.005496   -1.563072    0.037682
 -0.039578  -0.434399   15.743508
1.00000    0.005496   -1.563072    0.037682
 -0.039578  -0.466900   17.091684

LOAD      -P1 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -2.61E-05    7.286920   -0.183066
  0.176905  1.647422  -54.548472
0.25000   -2.61E-05    7.286920   -0.183066
  0.176905  1.805319  -60.833568
0.50000   -2.61E-05    7.286920   -0.183066
  0.176905  1.963216  -67.118663
0.75000   -2.61E-05    7.286920   -0.183066
  0.176905  2.121114  -73.403759
1.00000   -2.61E-05    7.286920   -0.183066
  0.176905  2.279011  -79.688855

LOAD      -P2 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -0.024727   -22.722752   -0.054401
 -3.586112  -0.836155   184.780534
0.25000   -0.024727   -22.722752   -0.054401
 -3.586112  -0.789233   204.379304
0.50000   -0.024727   -22.722752   -0.054401
 -3.586112  -0.742311   223.978074
0.75000   -0.024727   -22.722752   -0.054401
 -3.586112  -0.695389   243.576844
1.00000   -0.024727   -22.722752   -0.054401
 -3.586112  -0.648467   263.175614

LOAD      -P3 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -0.481277   45.303020    0.259999
  2.990246   0.621976  -720.116677
0.25000   -0.481277   45.303020    0.259999
  2.990246   0.397723  -759.191322
0.50000   -0.481277   45.303020    0.259999
  2.990246   0.173469  -798.265966
0.75000   -0.481277   45.303020    0.259999
  2.990246  -0.050784  -837.340611
1.00000   -0.481277   45.303020    0.259999
  2.990246  -0.275037  -876.415255
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       327

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.379771   -44.149858    0.005653
 -1.479704  -3.969419   1051.402
0.25000    5.379771   -44.149858    0.005653
 -1.479704  -3.974294   1089.482
0.50000    5.379771   -44.149858    0.005653
 -1.479704  -3.979170   1127.562
0.75000    5.379771   -44.149858    0.005653
 -1.479704  -3.984046   1165.642
1.00000    5.379771   -44.149858    0.005653
 -1.479704  -3.988922   1203.722

LOAD      -P5 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -4.889237   15.845741   -0.065867
  1.938242  2.873071  -473.216600
0.25000   -4.889237   15.845741   -0.065867
  1.938242  2.929882  -486.883828
0.50000   -4.889237   15.845741   -0.065867
  1.938242  2.986693  -500.551056
0.75000   -4.889237   15.845741   -0.065867
  1.938242  3.043504  -514.218284
1.00000   -4.889237   15.845741   -0.065867
  1.938242  3.100315  -527.885512

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.370540   -68.435682   -0.011066
 -5.105393  -5.142469   1247.882
0.25000    5.370540   -68.435682   -0.011066
 -5.105393  -5.132924   1306.909
0.50000    5.370540   -68.435682   -0.011066
 -5.105393  -5.123379   1365.936
0.75000    5.370540   -68.435682   -0.011066
 -5.105393  -5.113834   1424.963
1.00000    5.370540   -68.435682   -0.011066
 -5.105393  -5.104289   1483.990

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.370540   68.435682    0.011066
  5.105393  5.142469  -1247.882
0.25000   -5.370540   68.435682    0.011066
  5.105393  5.132924  -1306.909
0.50000   -5.370540   68.435682    0.011066
  5.105393  5.123379  -1365.936
0.75000   -5.370540   68.435682    0.011066
  5.105393  5.113834  -1424.963
1.00000   -5.370540   68.435682    0.011066
  5.105393  5.104289  -1483.990

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.389771   68.435682    0.259999
  5.105393  5.142469   1247.882
0.25000    5.389771   68.435682    0.259999
  5.105393  5.132924   1306.909
0.50000    5.389771   68.435682    0.259999
  5.105393  5.123379   1365.936
0.75000    5.389771   68.435682    0.259999
  5.105393  5.113834   1424.963
1.00000    5.389771   68.435682    0.259999
  5.105393  5.104289   1483.990

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.370540   -68.435682   -0.183066
 -5.105393  -5.142469   -1247.882
0.25000   -5.370540   -68.435682   -0.183066
 -5.105393  -5.132924   -1306.909
0.50000   -5.370540   -68.435682   -0.183066
 -5.105393  -5.123379   -1365.936
0.75000   -5.370540   -68.435682   -0.183066
 -5.105393  -5.113834   -1424.963
1.00000   -5.370540   -68.435682   -0.183066
 -5.105393  -5.104289   -1483.990
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       328

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      149 ================== LENGTH
=     4.927597

LOAD      -A1 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    0.012179    0.416651   -0.052783
 -0.434337  -0.450897   17.091942
0.25000    0.012179    0.416651   -0.052783
 -0.434337  -0.385874   16.578670
0.50000    0.012179    0.416651   -0.052783
 -0.434337  -0.320851   16.065397
0.75000    0.012179    0.416651   -0.052783
 -0.434337  -0.255827   15.552125
1.00000    0.012179    0.416651   -0.052783
 -0.434337  -0.190804   15.038853

LOAD      -P1 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -0.034160   -1.943232    0.242363
  2.017904  2.197401  -79.689604
0.25000   -0.034160   -1.943232    0.242363
  2.017904  1.898834  -77.295737
0.50000   -0.034160   -1.943232    0.242363
  2.017904  1.600267  -74.901871
0.75000   -0.034160   -1.943232    0.242363
  2.017904  1.301701  -72.508004
1.00000   -0.034160   -1.943232    0.242363
  2.017904  1.003134  -70.114138

LOAD      -P2 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    0.103344    5.366615    0.070046
 -2.434489  -0.344319  263.170860
0.25000    0.103344    5.366615    0.070046
 -2.434489  -0.430609  256.559731
0.50000    0.103344    5.366615    0.070046
 -2.434489  -0.516898  249.948603
0.75000    0.103344    5.366615    0.070046
 -2.434489  -0.603187  243.337474
1.00000    0.103344    5.366615    0.070046
 -2.434489  -0.689476  236.726345

LOAD      -P3 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -0.855274   -19.103745   -0.504098
  0.313136  -1.162184   -876.369940
0.25000   -0.855274   -19.103745   -0.504098
  0.313136  -0.541186   -852.836052
0.50000   -0.855274   -19.103745   -0.504098
  0.313136   0.079812   -829.302163
0.75000   -0.855274   -19.103745   -0.504098
  0.313136   0.700810   -805.768275
1.00000   -0.855274   -19.103745   -0.504098
  0.313136   1.321808   -782.234386

LOAD      -P4 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.475163   27.846873   -0.096363
 -4.752915  -3.785298   1203.727
0.25000    5.475163   27.846873   -0.096363
 -4.752915  -3.666589   1169.422
0.50000    5.475163   27.846873   -0.096363
 -4.752915  -3.547880   1135.118
0.75000    5.475163   27.846873   -0.096363
 -4.752915  -3.429171   1100.813
1.00000    5.475163   27.846873   -0.096363
 -4.752915  -3.310462   1066.509

LOAD      -P5 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -4.701251   -12.583161    0.340835
  5.290702  3.545298  -527.930199
0.25000   -4.701251   -12.583161    0.340835
  5.290702  3.125424  -512.429013
0.50000   -4.701251   -12.583161    0.340835
  5.290702  2.705549  -496.927827
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       329

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T         M2          M3
0.75000   -4.701251   -12.583161    0.340835
  5.290702  2.285675  -481.426640
1.00000   -4.701251   -12.583161    0.340835
  5.290702  1.865800  -465.925454

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.590686   33.630139   -0.079100
 -7.621742  -4.580515   1483.990
0.25000    5.590686   33.630139   -0.079100
 -7.621742  -4.483072   1442.561
0.50000    5.590686   33.630139   -0.079100
 -7.621742  -4.385629   1401.132
0.75000    5.590686   33.630139   -0.079100
 -7.621742  -4.288186   1359.703
1.00000    5.590686   33.630139   -0.079100
 -7.621742  -4.190743   1318.274

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.590686   -33.630139    0.079100
  7.621742  4.580515   -1483.990
0.25000   -5.590686   -33.630139    0.079100
  7.621742  4.483072   -1442.561
0.50000   -5.590686   -33.630139    0.079100
  7.621742  4.385629   -1401.132
0.75000   -5.590686   -33.630139    0.079100
  7.621742  4.288186   -1359.703
1.00000   -5.590686   -33.630139    0.079100
  7.621742  4.190743   -1318.274

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.590686   33.630139    0.340835
  7.621742  4.580515   1483.990
0.25000    5.590686   33.630139    0.340835
  7.621742  4.483072   1442.561
0.50000    5.590686   33.630139    0.340835
  7.621742  4.385629   1401.132
0.75000    5.590686   33.630139    0.340835
  7.621742  4.288186   1359.703
1.00000    5.590686   33.630139    0.340835
  7.621742  4.190743   1318.274

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.590686   -33.630139   -0.504098
 -7.621742  -4.580515   -1483.990
0.25000   -5.590686   -33.630139   -0.504098
 -7.621742  -4.483072   -1442.561
0.50000   -5.590686   -33.630139   -0.504098
 -7.621742  -4.385629   -1401.132
0.75000   -5.590686   -33.630139   -0.504098
 -7.621742  -4.288186   -1359.703
1.00000   -5.590686   -33.630139   -0.504098
 -7.621742  -4.190743   -1318.274

ELEM      150 ================== LENGTH
=     4.928504

LOAD      -A1 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    0.016237    0.331845   -0.069059
 -0.450602  -0.180452   15.040385
0.25000    0.016237    0.331845   -0.069059
 -0.450602  -0.095363   14.631510
0.50000    0.016237    0.331845   -0.069059
 -0.450602  -0.010274   14.222636
0.75000    0.016237    0.331845   -0.069059
 -0.450602   0.074815   13.813761
1.00000    0.016237    0.331845   -0.069059
 -0.450602   0.159905   13.404886
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       330

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -0.055676   -1.547938    0.321501
  2.095590  0.948640  -70.120879
0.25000   -0.055676   -1.547938    0.321501
  2.095590  0.552510  -68.213624
0.50000   -0.055676   -1.547938    0.321501
  2.095590  0.156380  -66.306368
0.75000   -0.055676   -1.547938    0.321501
  2.095590 -0.239750  -64.399113
1.00000   -0.055676   -1.547938    0.321501
  2.095590 -0.635880  -62.491858

LOAD      -P2 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    0.195362    5.361294    0.078332
 -1.641493  -0.467839  236.722990
0.25000    0.195362    5.361294    0.078332
 -1.641493  -0.564354  230.117200
0.50000    0.195362    5.361294    0.078332
 -1.641493  -0.660869  223.511411
0.75000    0.195362    5.361294    0.078332
 -1.641493  -0.757385  216.905621
1.00000    0.195362    5.361294    0.078332
 -1.641493  -0.853900  210.299831

LOAD      -P3 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -1.115719   -18.609578   -0.570476
  0.326803  0.697235  -782.198345
0.25000   -1.115719   -18.609578   -0.570476
  0.326803  1.400133  -759.268999
0.50000   -1.115719   -18.609578   -0.570476
  0.326803  2.103031  -736.339654
0.75000   -1.115719   -18.609578   -0.570476
  0.326803  2.805929  -713.410308
1.00000   -1.115719   -18.609578   -0.570476
  0.326803  3.508827  -690.480963

LOAD      -P4 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.431302   25.823184   -0.220295
 -7.106752  -3.414082   1065.543
0.25000    5.431302   25.823184   -0.220295
 -7.106752  -3.142652   1034.726
0.50000    5.431302   25.823184   -0.220295
 -7.106752  -2.871221   1002.909
0.75000    5.431302   25.823184   -0.220295
 -7.106752  -2.599791   971.091211
1.00000    5.431302   25.823184   -0.220295
 -7.106752  -2.328360   939.273793

LOAD      -P5 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -4.471505   -11.358806    0.459996
  6.776454  2.416499  -465.987614
0.25000   -4.471505   -11.358806    0.459996
  6.776454  1.849727  -451.992133
0.50000   -4.471505   -11.358806    0.459996
  6.776454  1.282954  -437.996652
0.75000   -4.471505   -11.358806    0.459996
  6.776454  0.716182  -424.001171
1.00000   -4.471505   -11.358806    0.459996
  6.776454  0.149409  -410.005690

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.642900   31.516323   -0.211021
 -9.198847  -4.062374   1318.307
0.25000    5.642900   31.516323   -0.211021
 -9.198847  -3.802369   1279.475
0.50000    5.642900   31.516323   -0.211021
 -9.198847  -3.542364   1240.643
0.75000    5.642900   31.516323   -0.211021
 -9.198847  -3.282360   1201.811
1.00000    5.642900   31.516323   -0.211021
 -9.198847  -3.022355   1162.979
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       331

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.642900   -31.516323    0.211021
  9.198847  4.062374   1318.307
0.25000   -5.642900   -31.516323    0.211021
  9.198847  3.802369   1279.475
0.50000   -5.642900   -31.516323    0.211021
  9.198847  3.542364   1240.643
0.75000   -5.642900   -31.516323    0.211021
  9.198847  3.282360   1201.811
1.00000   -5.642900   -31.516323    0.211021
  9.198847  3.022355   1162.979

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
      T         M2          M3
0.00000    5.642900   31.516323    0.459996
  9.198847  4.062374   1318.307
0.25000    5.642900   31.516323    0.459996
  9.198847  3.802369   1279.475
0.50000    5.642900   31.516323    0.459996
  9.198847  3.542364   1240.643
0.75000    5.642900   31.516323    0.459996
  9.198847  3.282360   1201.811
1.00000    5.642900   31.516323    0.459996
  9.198847  3.508827   1162.979

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -5.642900   -31.516323   -0.570476
 -9.198847  -4.062374   -1318.307
0.25000   -5.642900   -31.516323   -0.570476
 -9.198847  -3.802369   -1279.475
0.50000   -5.642900   -31.516323   -0.570476
 -9.198847  -3.542364   -1240.643
0.75000   -5.642900   -31.516323   -0.570476
 -9.198847  -3.282360   -1201.811
1.00000   -5.642900   -31.516323   -0.570476
 -9.198847  -3.022355   -1162.979

ELEM      151 ================== LENGTH
=     4.928619

LOAD      -A1 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    0.018392    0.315395   -0.026242
 -0.315446  0.165658   13.406502
0.25000    0.018392    0.315395   -0.026242
 -0.315446  0.197992   13.017887
0.50000    0.018392    0.315395   -0.026242
 -0.315446  0.230326   12.629272
0.75000    0.018392    0.315395   -0.026242
 -0.315446  0.262660   12.240657
1.00000    0.018392    0.315395   -0.026242
 -0.315446  0.294994   11.852041

LOAD      -P1 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000   -0.068154   -1.470923    0.123656
  1.467887  -0.668553   -62.499023
0.25000   -0.068154   -1.470923    0.123656
  1.467887  -0.820916   -60.686619
0.50000   -0.068154   -1.470923    0.123656
  1.467887  -0.973280   -58.874214
0.75000   -0.068154   -1.470923    0.123656
  1.467887  -1.125643   -57.061810
1.00000   -0.068154   -1.470923    0.123656
  1.467887  -1.278006   -55.249406

LOAD      -P2 --------------------

REL DIST          P          V2          V3
      T         M2          M3
0.00000    0.260116    5.273352    0.006430
 -1.072412  -0.698295  210.297343
0.25000    0.260116    5.273352    0.006430
 -1.072412  -0.706217  203.799758
0.50000    0.260116    5.273352    0.006430
 -1.072412  -0.714140  197.302172
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       332
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.260116	5.273352	0.006430
-1.072412	-0.722062	190.804587	
1.00000	0.260116	5.273352	0.006430
-1.072412	-0.729984	184.307002	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.287307	-17.851517	-0.130681
0.796514	3.099156	-690.458656	
0.25000	-1.287307	-17.851517	-0.130681
0.796514	3.260175	-668.462825	
0.50000	-1.287307	-17.851517	-0.130681
0.796514	3.421193	-646.466994	
0.75000	-1.287307	-17.851517	-0.130681
0.796514	3.582212	-624.471163	
1.00000	-1.287307	-17.851517	-0.130681
0.796514	3.743231	-602.475332	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.262978	24.379840	-0.333355
-7.826319	-2.73119	939.335038	
0.25000	5.262978	24.379840	-0.333355
-7.826319	-2.320374	909.295304	
0.50000	5.262978	24.379840	-0.333355
-7.826319	-1.909629	879.255570	
0.75000	5.262978	24.379840	-0.333355
-7.826319	-1.498885	849.215836	
1.00000	5.262978	24.379840	-0.333355
-7.826319	-1.088140	819.176101	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.186025	-10.646147	0.360191
6.949775	0.833153	-410.081205	
0.25000	-4.186025	-10.646147	0.360191
6.949775	0.389341	-396.963505	
0.50000	-4.186025	-10.646147	0.360191
6.949775	-0.054470	-383.845806	
0.75000	-4.186025	-10.646147	0.360191
6.949775	-0.498282	-370.728106	
1.00000	-4.186025	-10.646147	0.360191
6.949775	-0.942093	-357.610406	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.541486	29.968586	-0.353167
-9.214176	-3.263756	1163.039	
0.25000	5.541486	29.968586	-0.353167
-9.214176	-2.828600	1126.113	
0.50000	5.541486	29.968586	-0.353167
-9.214176	-2.393443	1089.187	
0.75000	5.541486	29.968586	-0.353167
-9.214176	-1.958287	1052.261	
1.00000	5.541486	29.968586	-0.353167
-9.214176	-1.523131	1015.335	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.541486	-29.968586	0.353167
9.214176	3.263756	-1163.039	
0.25000	-5.541486	-29.968586	0.353167
9.214176	2.828600	-1126.113	
0.50000	-5.541486	-29.968586	0.353167
9.214176	2.393443	-1089.187	
0.75000	-5.541486	-29.968586	0.353167
9.214176	1.958287	-1052.261	
1.00000	-5.541486	-29.968586	0.353167
9.214176	1.523131	-1015.335	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.541486	29.968586	0.360191
9.214176	3.263756	1163.039	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 333

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	5.541486	29.968586	0.360191
9.214176	3.260175	1126.113	
0.50000	5.541486	29.968586	0.360191
9.214176	3.421193	1089.187	
0.75000	5.541486	29.968586	0.360191
9.214176	3.582212	1052.261	
1.00000	5.541486	29.968586	0.360191
9.214176	3.743231	1015.335	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.541486	-29.968586	-0.353167
-9.214176	-3.263756	-1163.039	
0.25000	-5.541486	-29.968586	-0.353167
-9.214176	-2.828600	-1126.113	
0.50000	-5.541486	-29.968586	-0.353167
-9.214176	-2.393443	-1089.187	
0.75000	-5.541486	-29.968586	-0.353167
-9.214176	-1.958287	-1052.261	
1.00000	-5.541486	-29.968586	-0.353167
-9.214176	-1.523131	-1015.335	

ELEM 152 ========== LENGTH = 4.927865

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.019308	0.318953	0.009560
-0.169704	0.297301	11.853124	
0.25000	0.019308	0.318953	0.009560
-0.169704	0.285524	11.460185	
0.50000	0.019308	0.318953	0.009560
-0.169704	0.273746	11.067247	
0.75000	0.019308	0.318953	0.009560
-0.169704	0.261969	10.674308	
1.00000	0.019308	0.318953	0.009560
-0.169704	0.250192	10.281369	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074679	-1.487144	-0.042690
0.790381	-1.294212	-55.254120	
0.25000	-0.074679	-1.487144	-0.042690
0.790381	-1.241620	-53.422010	
0.50000	-0.074679	-1.487144	-0.042690
0.790381	-1.189028	-51.589899	
0.75000	-0.074679	-1.487144	-0.042690
0.790381	-1.136435	-49.757788	
1.00000	-0.074679	-1.487144	-0.042690
0.790381	-1.083843	-47.925677	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.297459	5.198139	-0.050919
-0.521598	-0.639714	184.305754	
0.25000	0.297459	5.198139	-0.050919
-0.521598	-0.576983	177.901821	
0.50000	0.297459	5.198139	-0.050919
-0.521598	-0.514253	171.497889	
0.75000	0.297459	5.198139	-0.050919
-0.521598	-0.451523	165.093956	
1.00000	0.297459	5.198139	-0.050919
-0.521598	-0.388793	158.690024	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.367418	-17.283154	0.226687
0.625823	3.549514	-602.467994	
0.25000	-1.367418	-17.283154	0.226687
0.625823	3.270243	-581.175729	
0.50000	-1.367418	-17.283154	0.226687
0.625823	2.990972	-559.883464	
0.75000	-1.367418	-17.283154	0.226687
0.625823	2.711701	-538.591198	
1.00000	-1.367418	-17.283154	0.226687
0.625823	2.432430	-517.298933	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 334

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.977350	23.508108	-0.407437
-7.178090	-1.772885	819.256188	
0.25000	4.977350	23.508108	-0.407437
-7.178090	-1.270937	790.294990	
0.50000	4.977350	23.508108	-0.407437
-7.178090	-0.768989	761.333791	
0.75000	4.977350	23.508108	-0.407437
-7.178090	-0.267041	732.372592	
1.00000	4.977350	23.508108	-0.407437
-7.178090	0.234907	703.411394	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.852021	-10.254902	0.264798
6.453188	-0.140004	-357.692952	
0.25000	-3.852021	-10.254902	0.264798
6.453188	-0.466226	-345.059258	
0.50000	-3.852021	-10.254902	0.264798
6.453188	-0.792449	-332.425564	
0.75000	-3.852021	-10.254902	0.264798
6.453188	-1.118671	-319.791870	
1.00000	-3.852021	-10.254902	0.264798
6.453188	-1.444894	-307.158176	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.294118	29.025200	-0.448796
-7.869392	-2.115298	1015.415	
0.25000	5.294118	29.025200	-0.448796
-7.869392	-1.562397	979.656996	
0.50000	5.294118	29.025200	-0.448796
-7.869392	-1.009496	943.898926	
0.75000	5.294118	29.025200	-0.448796
-7.869392	-0.456595	908.140857	
1.00000	5.294118	29.025200	-0.448796
-7.869392	0.096307	872.382787	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.294118	-29.025200	0.448796
7.869392	2.115298	-1015.415	
0.25000	-5.294118	-29.025200	0.448796
7.869392	1.562397	-979.656996	
0.50000	-5.294118	-29.025200	0.448796
7.869392	1.009496	-943.898926	
0.75000	-5.294118	-29.025200	0.448796
7.869392	0.456595	-908.140857	
1.00000	-5.294118	-29.025200	0.448796
7.869392	-0.096307	-872.382787	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	5.294118	29.025200	0.448796
7.869392	3.549514	1015.415	
0.25000	5.294118	29.025200	0.448796
7.869392	3.270243	979.656996	
0.50000	5.294118	29.025200	0.448796
7.869392	2.990972	943.898926	
0.75000	5.294118	29.025200	0.448796
7.869392	2.711701	908.140857	
1.00000	5.294118	29.025200	0.448796
7.869392	2.432430	872.382787	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-5.294118	-29.025200	-0.448796
-7.869392	-2.115298	-1015.415	
0.25000	-5.294118	-29.025200	-0.448796
-7.869392	-1.562397	-979.656996	
0.50000	-5.294118	-29.025200	-0.448796
-7.869392	-1.189028	-943.898926	
0.75000	-5.294118	-29.025200	-0.448796
-7.869392	-1.136435	-908.140857	
1.00000	-5.294118	-29.025200	-0.448796
-7.869392	-1.444894	-872.382787	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 335

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 153 ========== LENGTH = 4.928042

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.019185	0.324455	0.016650
-0.059488	0.249757	10.281929	
0.25000	0.019185	0.324455	0.016650
-0.059488	0.229244	9.882197	
0.50000	0.019185	0.324455	0.016650
-0.059488	0.208730	9.482466	
0.75000	0.019185	0.324455	0.016650
-0.059488	0.188217	9.082735	
1.00000	0.019185	0.324455	0.016650
-0.059488	0.167704	8.683003	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.076211	-1.512546	-0.075840
0.277796	-1.086917	-47.927981	
0.25000	-0.076211	-1.512546	-0.075840
0.277796	-0.993481	-46.064509	
0.50000	-0.076211	-1.512546	-0.075840
0.277796	-0.900045	-44.201036	
0.75000	-0.076211	-1.512546	-0.075840
0.277796	-0.806609	-42.337564	
1.00000	-0.076211	-1.512546	-0.075840
0.277796	-0.713172	-40.474091	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.310209	5.148322	-0.068592
-0.018743	-0.357457	158.689428	
0.25000	0.310209	5.148322	-0.068592
-0.018743	-0.272950	152.346640	
0.50000	0.310209	5.148322	-0.068592
-0.018743	-0.188444	146.003853	
0.75000	0.310209	5.148322	-0.068592
-0.018743	-0.103937	139.661066	
1.00000	0.310209	5.148322	-0.068592
-0.018743	-0.019431	133.318279	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.365255	-16.928206	0.327601
0.009897	2.434799	-517.300664	
0.25000	-1.365255	-16.928206	0.327601
0.009897	2.031191	-496.444935	
0.50000	-1.365255	-16.928206	0.327601
0.009897	1.627583	-475.589207	
0.75000	-1.365255	-16.928206	0.327601
0.009897	1.223975	-454.733478	
1.00000	-1.365255	-16.928206	0.327601
0.009897	0.820367	-433.877749	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.587569	23.001033	-0.456285
-6.008466	-0.700919	703.498433	
0.25000	4.587569	23.001033	-0.456285
-6.008466	-0.138772	675.160917	
0.50000	4.587569	23.001033	-0.456285
-6.008466	0.423375	646.823401	
0.75000	4.587569	23.001033	-0.456285
-6.008466	0.985523	618.485884	
1.00000	4.587569	23.001033	-0.456285
-6.008466	1.547670	590.148368	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.475496	-10.033058	0.256466
5.799004	-0.539262	-307.241144	
0.25000	-3.475496	-10.033058	0.256466
5.799004	-0.855231	-294.880311	
0.50000	-3.475496	-10.033058	0.256466
5.799004	-1.171200	-282.519477	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 336

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-3.475496	-10.033058	0.256466
5.799004	-1.487169	-270.158643	
1.00000	-3.475496	-10.033058	0.256466
5.799004	-1.803138	-257.797810	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.916962	28.473810	-0.508227
-6.086696	-0.808619	872.469790	
0.25000	4.916962	28.473810	-0.508227
-6.086696	-0.182478	837.389755	
0.50000	4.916962	28.473810	-0.508227
-6.086696	0.443662	802.309720	
0.75000	4.916962	28.473810	-0.508227
-6.086696	1.069803	767.229685	
1.00000	4.916962	28.473810	-0.508227
-6.086696	1.695944	732.149650	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.916962	-28.473810	0.508227
6.086696	0.808619	-872.469790	
0.25000	-4.916962	-28.473810	0.508227
6.086696	0.182478	-837.389755	
0.50000	-4.916962	-28.473810	0.508227
6.086696	-0.443662	-802.309720	
0.75000	-4.916962	-28.473810	0.508227
6.086696	-1.069803	-767.229685	
1.00000	-4.916962	-28.473810	0.508227
6.086696	-1.695944	-732.149650	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.916962	28.473810	0.508227
6.086696	2.434799	872.469790	
0.25000	4.916962	28.473810	0.508227
6.086696	2.031191	837.389755	
0.50000	4.916962	28.473810	0.508227
6.086696	1.627583	802.309720	
0.75000	4.916962	28.473810	0.508227
6.086696	1.223975	767.229685	
1.00000	4.916962	28.473810	0.508227
6.086696	1.695944	732.149650	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.916962	-28.473810	-0.508227
-6.086696	-1.086917	-872.469790	
0.25000	-4.916962	-28.473810	-0.508227
-6.086696	-0.993481	-837.389755	
0.50000	-4.916962	-28.473810	-0.508227
-6.086696	-1.171200	-802.309720	
0.75000	-4.916962	-28.473810	-0.508227
-6.086696	-1.487169	-767.229685	
1.00000	-4.916962	-28.473810	-0.508227
-6.086696	-1.803138	-732.149650	

ELEM 154 ========== LENGTH = 4.928632

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.018025	0.328260	0.003709
0.027116	0.164766	8.683267	
0.25000	0.018025	0.328260	0.003709
0.027116	0.160195	8.278798	
0.50000	0.018025	0.328260	0.003709
0.027116	0.155625	7.874329	
0.75000	0.018025	0.328260	0.003709
0.027116	0.151054	7.469860	
1.00000	0.018025	0.328260	0.003709
0.027116	0.146483	7.065392	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 337

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.072798	-1.530153	-0.015859
-0.125196	-0.704593	-40.475036	
0.25000	-0.072798	-1.530153	-0.015859
-0.125196	-0.684753	-38.589645	
0.50000	-0.072798	-1.530153	-0.015859
-0.125196	-0.665213	-36.704254	
0.75000	-0.072798	-1.530153	-0.015859
-0.125196	-0.645672	-34.818864	
1.00000	-0.072798	-1.530153	-0.015859
-0.125196	-0.626132	-32.933473	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.301743	5.128766	-0.066334
0.571466	-0.039084	133.317987	
0.25000	0.301743	5.128766	-0.066334
0.571466	0.042650	126.998537	
0.50000	0.301743	5.128766	-0.066334
0.571466	0.124384	120.679087	
0.75000	0.301743	5.128766	-0.066334
0.571466	0.206119	114.359637	
1.00000	0.301743	5.128766	-0.066334
0.571466	0.287853	108.040187	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.292636	-16.759659	0.274550
-1.293961	0.991922	-433.884576	
0.25000	-1.292636	-16.759659	0.274550
-1.293961	0.653633	-413.234027	
0.50000	-1.292636	-16.759659	0.274550
-1.293961	0.315344	-392.583479	
0.75000	-1.292636	-16.759659	0.274550
-1.293961	-0.022946	-371.932931	
1.00000	-1.292636	-16.759659	0.274550
-1.293961	-0.361235	-351.282382	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.107038	22.749416	-0.519288
-4.047783	0.394143	590.243987	
0.25000	4.107038	22.749416	-0.519288
-4.047783	1.033988	562.213112	
0.50000	4.107038	22.749416	-0.519288
-4.047783	1.673832	534.182236	
0.75000	4.107038	22.749416	-0.519288
-4.047783	2.313676	506.151361	
1.00000	4.107038	22.749416	-0.519288
-4.047783	2.953521	478.120486	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-3.061373	-9.916630	0.323221
4.868358	-0.807453	-257.885630	
0.25000	-3.061373	-9.916630	0.323221
4.868358	-1.205712	-245.666774	
0.50000	-3.061373	-9.916630	0.323221
4.868358	-1.603972	-233.447919	
0.75000	-3.061373	-9.916630	0.323221
4.868358	-2.002231	-221.229064	
1.00000	-3.061373	-9.916630	0.323221
4.868358	-2.400491	-209.010208	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.426806	28.206443	-0.581912
-3.449200	0.519825	732.245241	
0.25000	4.426806	28.206443	-0.581912
-3.449200	1.236833	697.490447	
0.50000	4.426806	28.206443	-0.581912
-3.449200	1.953841	662.735653	
0.75000	4.426806	28.206443	-0.581912
-3.449200	2.670849	627.980858	
1.00000	4.426806	28.206443	-0.581912
-3.449200	3.387857	593.226064	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 338

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.426806	-28.206443	0.581912
3.449200	-0.519825	-732.245241	
0.25000	-4.426806	-28.206443	0.581912
3.449200	-1.236833	-697.490447	
0.50000	-4.426806	-28.206443	0.581912
3.449200	-1.953841	-662.735653	
0.75000	-4.426806	-28.206443	0.581912
3.449200	-2.670849	-627.980858	
1.00000	-4.426806	-28.206443	0.581912
3.449200	-3.387857	-593.226064	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	4.426806	28.206443	0.581912
4.868358	0.991922	732.245241	
0.25000	4.426806	28.206443	0.581912
4.868358	1.236833	697.490447	
0.50000	4.426806	28.206443	0.581912
4.868358	1.953841	662.735653	
0.75000	4.426806	28.206443	0.581912
4.868358	2.670849	627.980858	
1.00000	4.426806	28.206443	0.581912
4.868358	3.387857	593.226064	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-4.426806	-28.206443	-0.581912
-4.047783	-0.807453	-732.245241	
0.25000	-4.426806	-28.206443	-0.581912
-4.047783	-1.236833	-697.490447	
0.50000	-4.426806	-28.206443	-0.581912
-4.047783	-1.953841	-662.735653	
0.75000	-4.426806	-28.206443	-0.581912
-4.047783	-2.670849	-627.980858	
1.00000	-4.426806	-28.206443	-0.581912
-4.047783	-3.387857	-593.226064	

ELEM 155 ========== LENGTH = 4.928151

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.015916	0.331681	-0.013488
0.097557	0.141417	7.065369	
0.25000	0.015916	0.331681	-0.013488
0.097557	0.158035	6.656745	
0.50000	0.015916	0.331681	-0.013488
0.097557	0.174653	6.248101	
0.75000	0.015916	0.331681	-0.013488
0.097557	0.191271	5.839457	
1.00000	0.015916	0.331681	-0.013488
0.097557	0.207888	5.430813	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.064857	-1.546014	0.063984
-0.452984	-0.607094	-32.933194	
0.25000	-0.064857	-1.546014	0.063984
-0.452984	-0.685925	-31.028447	
0.50000	-0.064857	-1.546014	0.063984
-0.452984	-0.764756	-29.123699	
0.75000	-0.064857	-1.546014	0.063984
-0.452984	-0.843588	-27.218952	
1.00000	-0.064857	-1.546014	0.063984
-0.452984	-0.922419	-25.314204	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	

```
 0.00000     0.276288     5.126794    -0.061965
 1.063549    0.227114   108.039809
 0.25000     0.276288     5.126794    -0.061965
 1.063549    0.303458   101.723405
 0.50000     0.276288     5.126794    -0.061965
 1.063549    0.379801    95.407000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                 339

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P              V2              V3
        T          M2             M3
 0.75000     0.276288     5.126794    -0.061965
 1.063549    0.456145    89.090596
 1.00000     0.276288     5.126794    -0.061965
 1.063549    0.532489    82.774192

 LOAD      -P3 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -1.164167    -16.692757     0.193314
-2.484872    -0.053951   -351.291498
 0.25000    -1.164167    -16.692757     0.193314
-2.484872    -0.292121   -330.725390
 0.50000    -1.164167    -16.692757     0.193314
-2.484872    -0.530290   -310.159282
 0.75000    -1.164167    -16.692757     0.193314
-2.484872    -0.768460   -289.593174
 1.00000    -1.164167    -16.692757     0.193314
-2.484872    -1.006630   -269.027066

 LOAD      -P4 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     3.554529     22.637878    -0.590282
-2.250647    1.626444    478.215382
 0.25000     3.554529     22.637878    -0.590282
-2.250647    1.353694    450.324660
 0.50000     3.554529     22.637878    -0.590282
-2.250647    1.080944    422.433937
 0.75000     3.554529     22.637878    -0.590282
-2.250647    0.808194    394.543215
 1.00000     3.554529     22.637878    -0.590282
-2.250647    4.535443    366.652493

 LOAD      -P5 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -2.617709     -9.857583     0.408437
 4.027396   -1.333931   -209.095887
 0.25000    -2.617709     -9.857583     0.408437
 4.027396   -1.837141   -196.950972
 0.50000    -2.617709     -9.857583     0.408437
 4.027396   -2.340351   -184.806057
 0.75000    -2.617709     -9.857583     0.408437
 4.027396   -2.843562   -172.661142
 1.00000    -2.617709     -9.857583     0.408437
 4.027396   -3.346772   -160.516227

 LOAD   -2N+1- ------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     3.846734     28.096353    -0.665735
-1.089541    1.994976    593.320580
 0.25000     3.846734     28.096353    -0.665735
-1.089541    2.815187    558.704809
 0.50000     3.846734     28.096353    -0.665735
-1.089541    3.635398    524.089039
 0.75000     3.846734     28.096353    -0.665735
-1.089541    4.455609    489.473268
 1.00000     3.846734     28.096353    -0.665735
-1.089541    5.275820    454.857497

 LOAD   -2N+2- ------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -3.846734    -28.096353     0.665735
 1.089541   -1.994976   -593.320580
 0.25000    -3.846734    -28.096353     0.665735
 1.089541   -2.815187   -558.704809
 0.50000    -3.846734    -28.096353     0.665735
 1.089541   -3.635398   -524.089039
 0.75000    -3.846734    -28.096353     0.665735
 1.089541   -4.455609   -489.473268
 1.00000    -3.846734    -28.096353     0.665735
 1.089541   -5.275820   -454.857497

 COMB  SETTLE ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     3.846734     28.096353     0.665735
 4.027396    1.994976    593.320580
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                 340

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P              V2              V3
        T          M2             M3
 0.25000     3.846734     28.096353     0.665735
 4.027396    2.815187    558.704809
 0.50000     3.846734     28.096353     0.665735
 4.027396    3.635398    524.089039
 0.75000     3.846734     28.096353     0.665735
 4.027396    4.455609    489.473268
 1.00000     3.846734     28.096353     0.665735
 4.027396    5.275820    454.857497

 COMB  SETTLE ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -3.846734    -28.096353    -0.665735
-2.484872   -1.994976   -593.320580
 0.25000    -3.846734    -28.096353    -0.665735
-2.484872   -2.815187   -558.704809
 0.50000    -3.846734    -28.096353    -0.665735
-2.484872   -3.635398   -524.089039
 0.75000    -3.846734    -28.096353    -0.665735
-2.484872   -4.455609   -489.473268
 1.00000    -3.846734    -28.096353    -0.665735
-2.484872   -5.275820   -454.857497

 ELEM      156 ================== LENGTH
=    4.927789

 LOAD      -A1 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.013152     0.337386    -0.018412
 0.174886    0.201346     5.430528
 0.25000     0.013152     0.337386    -0.018412
 0.174886    0.224029     5.014886
 0.50000     0.013152     0.337386    -0.018412
 0.174886    0.246711     4.599244
 0.75000     0.013152     0.337386    -0.018412
 0.174886    0.269394     4.183601
 1.00000     0.013152     0.337386    -0.018412
 0.174886    0.292076     3.767959

 LOAD      -P1 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.053785    -1.572511     0.086862
-0.812684   -0.896310   -25.312626
 0.25000    -0.053785    -1.572511     0.086862
-0.812684   -1.003320   -23.375375
 0.50000    -0.053785    -1.572511     0.086862
-0.812684   -1.110329   -21.438124
 0.75000    -0.053785    -1.572511     0.086862
-0.812684   -1.217338   -19.500874
 1.00000    -0.053785    -1.572511     0.086862
-0.812684   -1.324348   -17.563623

 LOAD      -P2 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.237860     5.133768    -0.052506
 1.472884    0.440351    82.773480
 0.25000     0.237860     5.133768    -0.052506
 1.472884    0.505037    76.448948
 0.50000     0.237860     5.133768    -0.052506
 1.472884    0.569722    70.124417
 0.75000     0.237860     5.133768    -0.052506
 1.472884    0.634407    63.799885
 1.00000     0.237860     5.133768    -0.052506
 1.472884    0.699092    57.475353

 LOAD      -P3 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.992687    -16.667938     0.144101
-3.455191   -0.594868   -269.377186
 0.25000    -0.992687    -16.667938     0.144101
-3.455191   -0.772392   -248.503163
 0.50000    -0.992687    -16.667938     0.144101
-3.455191   -0.949916   -227.969141
 0.75000    -0.992687    -16.667938     0.144101
-3.455191   -1.127441   -207.435118
 1.00000    -0.992687    -16.667938     0.144101
-3.455191   -1.304965   -186.901095
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                 341

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD      -P4 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     2.947153     22.613646    -0.585544
-0.549642    3.076384    366.746736
 0.25000     2.947153     22.613646    -0.585544
-0.549642    3.797744    338.887914
 0.50000     2.947153     22.613646    -0.585544
-0.549642    4.519104    311.029092
 0.75000     2.947153     22.613646    -0.585544
-0.549642    5.240464    283.170270
 1.00000     2.947153     22.613646    -0.585544
-0.549642    5.961824    255.311449

 LOAD      -P5 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -2.151692     -9.844351     0.425500
 3.169747   -2.226903   -160.600933
 0.25000    -2.151692     -9.844351     0.425500
 3.169747   -2.751097   -148.473210
 0.50000    -2.151692     -9.844351     0.425500
 3.169747   -3.275291   -136.345488
 0.75000    -2.151692     -9.844351     0.425500
 3.169747   -3.799485   -124.217765
 1.00000    -2.151692     -9.844351     0.425500
 3.169747   -4.323679   -112.090043

 LOAD   -2N+1- ------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     3.198164     28.084800    -0.656463
 1.098128    3.718082    454.950744
 0.25000     3.198164     28.084800    -0.656463
 1.098128    4.526809    420.351749
 0.50000     3.198164     28.084800    -0.656463
 1.098128    5.335537    385.752753
 0.75000     3.198164     28.084800    -0.656463
 1.098128    6.144264    351.153757
 1.00000     3.198164     28.084800    -0.656463
 1.098128    6.952991    316.554761

 LOAD   -2N+2- ------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -3.198164    -28.084800     0.656463
-1.098128   -3.718082   -454.950744
 0.25000    -3.198164    -28.084800     0.656463
-1.098128   -4.526809   -420.351749
 0.50000    -3.198164    -28.084800     0.656463
-1.098128   -5.335537   -385.752753
 0.75000    -3.198164    -28.084800     0.656463
-1.098128   -6.144264   -351.153757
 1.00000    -3.198164    -28.084800     0.656463
-1.098128   -6.952991   -316.554761

 COMB  SETTLE ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     3.198164     28.084800     0.656463
 3.169747    3.718082    454.950744
 0.25000     3.198164     28.084800     0.656463
 3.169747    4.526809    420.351749
 0.50000     3.198164     28.084800     0.656463
 3.169747    5.335537    385.752753
 0.75000     3.198164     28.084800     0.656463
 3.169747    6.144264    351.153757
 1.00000     3.198164     28.084800     0.656463
 3.169747    6.952991    316.554761

 COMB  SETTLE ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -3.198164    -28.084800    -0.656463
-3.455191   -3.718082   -454.950744
 0.25000    -3.198164    -28.084800    -0.656463
-3.455191   -4.526809   -420.351749
 0.50000    -3.198164    -28.084800    -0.656463
-3.455191   -5.335537   -385.752753
 0.75000    -3.198164    -28.084800    -0.656463
-3.455191   -6.144264   -351.153757
 1.00000    -3.198164    -28.084800    -0.656463
-3.455191   -6.952991   -316.554761
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                 342

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      157 ================== LENGTH
=    4.928656

 LOAD      -A1 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.010160     0.345026     0.002453
 0.271749    0.284886     3.767275
 0.25000     0.010160     0.345026     0.002453
 0.271749    0.281863     3.342147
 0.50000     0.010160     0.345026     0.002453
 0.271749    0.278840     2.917018
 0.75000     0.010160     0.345026     0.002453
 0.271749    0.275817     2.491889
 1.00000     0.010160     0.345026     0.002453
 0.271749    0.272794     2.066761

 LOAD      -P1 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.041590    -1.608009    -0.010079
-1.263057   -1.295067   -17.560198
 0.25000    -0.041590    -1.608009    -0.010079
-1.263057   -1.282648   -15.578867
 0.50000    -0.041590    -1.608009    -0.010079
-1.263057   -1.270229   -13.597537
 0.75000    -0.041590    -1.608009    -0.010079
-1.263057   -1.257810   -11.616206
 1.00000    -0.041590    -1.608009    -0.010079
-1.263057   -1.245390    -9.634876

 LOAD      -P2 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.190329     5.131876    -0.021993
 1.751433    0.584828    57.473987
 0.25000     0.190329     5.131876    -0.021993
 1.751433    0.611928    51.150673
 0.50000     0.190329     5.131876    -0.021993
 1.751433    0.639027    44.827360
 0.75000     0.190329     5.131876    -0.021993
 1.751433    0.666126    38.504047
 1.00000     0.190329     5.131876    -0.021993
 1.751433    0.693226    32.180734

 LOAD      -P3 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.790057    -16.625073     0.130392
-3.976147   -0.817995   -186.911221
 0.25000    -0.790057    -16.625073     0.130392
-3.976147   -0.976659   -166.426404
 0.50000    -0.790057    -16.625073     0.130392
-3.976147   -1.135324   -145.941588
 0.75000    -0.790057    -16.625073     0.130392
-3.976147   -1.299988   -125.456771
 1.00000    -0.790057    -16.625073     0.130392
-3.976147   -1.460653   -104.971955

 LOAD      -P4 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     2.302796     22.655769    -0.383986
 1.065958    4.413027    255.402956
 0.25000     2.302796     22.655769    -0.383986
 1.065958    4.886161    227.487334
 0.50000     2.302796     22.655769    -0.383986
 1.065958    5.359295    199.571711
 0.75000     2.302796     22.655769    -0.383986
 1.065958    5.832429    171.656089
 1.00000     2.302796     22.655769    -0.383986
 1.065958    6.305563    143.740466

 LOAD      -P5 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -1.671638     -9.899589     0.283213
 2.150064   -3.169680   -112.172800
 0.25000    -1.671638     -9.899589     0.283213
 2.150064   -3.518644    -99.974882
 0.50000    -1.671638     -9.899589     0.283213
 2.150064   -3.867609    -87.776965
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                 343

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P              V2              V3
        T          M2             M3
 0.75000    -1.671638     -9.899589     0.283213
 2.150064   -4.216574    -75.579048
 1.00000    -1.671638     -9.899589     0.283213
 2.150064   -4.565539    -63.381131

 LOAD   -2N+1- ------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     2.503286     28.132671    -0.403526
 3.089140    5.282742    316.644218
 0.25000     2.503286     28.132671    -0.403526
 3.089140    5.779952    281.980154
 0.50000     2.503286     28.132671    -0.403526
 3.089140    6.277162    247.316090
 0.75000     2.503286     28.132671    -0.403526
 3.089140    6.774372    212.652025
 1.00000     2.503286     28.132671    -0.403526
 3.089140    7.271582    177.987961

 LOAD   -2N+2- ------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -2.503286    -28.132671     0.403526
-3.089140   -5.282742   -316.644218
 0.25000    -2.503286    -28.132671     0.403526
-3.089140   -5.779952   -281.980154
 0.50000    -2.503286    -28.132671     0.403526
-3.089140   -6.277162   -247.316090
 0.75000    -2.503286    -28.132671     0.403526
-3.089140   -6.774372   -212.652025
 1.00000    -2.503286    -28.132671     0.403526
-3.089140   -7.271582   -177.987961

 COMB  SETTLE ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     2.503286     28.132671     0.403526
 3.089140    5.282742    316.644218
 0.25000     2.503286     28.132671     0.403526
 3.089140    5.779952    281.980154
 0.50000     2.503286     28.132671     0.403526
 3.089140    6.277162    247.316090
 0.75000     2.503286     28.132671     0.403526
 3.089140    6.774372    212.652025
 1.00000     2.503286     28.132671     0.403526
 3.089140    7.271582    177.987961

 COMB  SETTLE ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -2.503286    -28.132671    -0.403526
-3.976147   -5.282742   -316.644218
 0.25000    -2.503286    -28.132671    -0.403526
-3.976147   -5.779952   -281.980154
 0.50000    -2.503286    -28.132671    -0.403526
-3.976147   -6.277162   -247.316090
 0.75000    -2.503286    -28.132671    -0.403526
-3.976147   -6.774372   -212.652025
 1.00000    -2.503286    -28.132671    -0.403526
-3.976147   -7.271582   -177.987961

 ELEM      158 ================== LENGTH
=    4.927665

 LOAD      -A1 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.007327     0.340573     0.039316
 0.360957    0.265590     2.065559
 0.25000     0.007327     0.340573     0.039316
 0.360957    0.217155     1.646001
 0.50000     0.007327     0.340573     0.039316
 0.360957    0.168721     1.226444
 0.75000     0.007327     0.340573     0.039316
 0.360957    0.120287     0.806886
 1.00000     0.007327     0.340573     0.039316
 0.360957    0.071852     0.387329
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                 344

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD      -P1 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.030049    -1.587299    -0.181506
-1.677705   -1.215859    -9.629051
 0.25000    -0.030049    -1.587299    -0.181506
-1.677705   -0.992260    -7.673632
 0.50000    -0.030049    -1.587299    -0.181506
-1.677705   -0.768660    -5.718213
 0.75000    -0.030049    -1.587299    -0.181506
-1.677705   -0.545060    -3.762794
 1.00000    -0.030049    -1.587299    -0.181506
-1.677705   -0.321461    -1.807375

 LOAD      -P2 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.138280     5.077221     0.025511
 1.766124    0.566859    32.179280
 0.25000     0.138280     5.077221     0.025511
 1.766124    0.535431    25.924569
 0.50000     0.138280     5.077221     0.025511
 1.766124    0.504004    19.669859
 0.75000     0.138280     5.077221     0.025511
 1.766124    0.472576    13.415148
 1.00000     0.138280     5.077221     0.025511
 1.766124    0.441149     7.160437

 LOAD      -P3 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.572024    -16.479125     0.122438
-3.718420   -0.933441   -104.983836
 0.25000    -0.572024    -16.479125     0.122438
-3.718420   -1.084275    -84.682935
 0.50000    -0.572024    -16.479125     0.122438
-3.718420   -1.235108    -64.382034
 0.75000    -0.572024    -16.479125     0.122438
-3.718420   -1.385942    -44.081132
 1.00000    -0.572024    -16.479125     0.122438
-3.718420   -1.536775    -23.780231

 LOAD      -P4 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     1.652770     22.612428    -0.024994
 2.195481    4.731220    143.826286
 0.25000     1.652770     22.612428    -0.024994
 2.195481    4.762010    115.969670
 0.50000     1.652770     22.612428    -0.024994
 2.195481    4.792801     88.113053
 0.75000     1.652770     22.612428    -0.024994
 2.195481    4.823591     60.256437
 1.00000     1.652770     22.612428    -0.024994
 2.195481    4.854381     32.399821

 LOAD      -P5 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -1.196305     -9.963798     0.019234
 1.073564   -3.414368    -63.458237
 0.25000    -1.196305     -9.963798     0.019234
 1.073564   -3.438063    -51.183673
 0.50000    -1.196305     -9.963798     0.019234
 1.073564   -3.461757    -38.909109
 0.75000    -1.196305     -9.963798     0.019234
 1.073564   -3.485451    -26.634546
 1.00000    -1.196305     -9.963798     0.019234
 1.073564   -3.509145    -14.359982

 LOAD   -2N+1- ------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     1.798377     28.030222     0.039834
 4.322561    5.563669    178.071125
 0.25000     1.798377     28.030222     0.039834
 4.322561    5.514597    143.540240
 0.50000     1.798377     28.030222     0.039834
 4.322561    5.465525    109.009356
 0.75000     1.798377     28.030222     0.039834
 4.322561    5.416453     74.478471
 1.00000     1.798377     28.030222     0.039834
 4.322561    5.367381     39.947587
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL            SETTLEMENT              >
                                 345

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD   -2N+2- ------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -1.798377    -28.030222    -0.039834
-4.322561   -5.563669   -178.071125
 0.25000    -1.798377    -28.030222    -0.039834
-4.322561   -5.514597   -143.540240
 0.50000    -1.798377    -28.030222    -0.039834
-4.322561   -5.465525   -109.009356
 0.75000    -1.798377    -28.030222    -0.039834
-4.322561   -5.416453    -74.478471
 1.00000    -1.798377    -28.030222    -0.039834
-4.322561   -5.367381    -39.947587

 COMB  SETTLE ------------------- MAX

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     1.798377     28.030222     0.122438
 4.322561    5.563669    178.071125
 0.25000     1.798377     28.030222     0.122438
 4.322561    5.514597    143.540240
 0.50000     1.798377     28.030222     0.122438
 4.322561    5.465525    109.009356
 0.75000     1.798377     28.030222     0.122438
 4.322561    5.416453     74.478471
 1.00000     1.798377     28.030222     0.122438
 4.322561    5.367381     39.947587

 COMB  SETTLE ------------------- MIN

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -1.798377    -28.030222    -0.181506
-4.322561   -5.563669   -178.071125
 0.25000    -1.798377    -28.030222    -0.181506
-4.322561   -5.514597   -143.540240
 0.50000    -1.798377    -28.030222    -0.181506
-4.322561   -5.465525   -109.009356
 0.75000    -1.798377    -28.030222    -0.181506
-4.322561   -5.416453    -74.478471
 1.00000    -1.798377    -28.030222    -0.181506
-4.322561   -5.367381    -39.947587

 ELEM      159 ================== LENGTH
=    1.478494

 LOAD      -A1 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000     0.003465     0.261826     0.036901
 0.275390    0.062773     0.386917
 0.25000     0.003465     0.261826     0.036901
 0.275390    0.049134     0.290140
 0.50000     0.003465     0.261826     0.036901
 0.275390    0.035495     0.193363
 0.75000     0.003465     0.261826     0.036901
 0.275390    0.021855     0.096585
 1.00000     0.003465     0.261826     0.036901
 0.275390    0.008216    -0.000192

 LOAD      -P1 ---------------------

 REL DIST          P              V2              V3
        T          M2             M3
 0.00000    -0.014231    -1.221374    -0.169320
-1.279905   -0.284137    -1.805166
 0.25000    -0.014231    -1.221374    -0.169320
```

```
-1.279905   -0.221552   -1.353718
0.50000   -0.014231   -1.221374   -0.169320
-1.279905   -0.158967   -0.902269
0.75000   -0.014231   -1.221374   -0.169320
-1.279905   -0.096382   -0.450820
1.00000   -0.014231   -1.221374   -0.169320
-1.279905   -0.033797    0.000628

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.064869    4.852023    0.082164
1.153688    0.273426    7.165846
0.25000    0.064869    4.852023    0.082164
1.153688    0.243056    5.372424
0.50000    0.064869    4.852023    0.082164
1.153688    0.212686    3.579002
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       346

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.75000    0.064869    4.852023    0.082164
1.153688    0.182317    1.785580
1.00000    0.064869    4.852023    0.082164
1.153688    0.151947   -0.007841

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.268012   -16.129310   -0.146460
-2.260843   -0.843754   -23.811996
0.25000   -0.268012   -16.129310   -0.146460
-2.260843   -0.789618   -17.850223
0.50000   -0.268012   -16.129310   -0.146460
-2.260843   -0.735483   -11.888451
0.75000   -0.268012   -16.129310   -0.146460
-2.260843   -0.681348   -5.926678
1.00000   -0.268012   -16.129310   -0.146460
-2.260843   -0.627213    0.035095

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.773527   22.063480    0.701058
1.657536    2.847913   32.514066
0.25000    0.773527   22.063480    0.701058
1.657536    2.588786   24.358884
0.50000    0.773527   22.063480    0.701058
1.657536    2.329659   16.203703
0.75000    0.773527   22.063480    0.701058
1.657536    2.070531    8.048521
1.00000    0.773527   22.063480    0.701058
1.657536    1.811404   -0.106661

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.559618   -9.826644   -0.504342
0.454134   -2.056222   -14.449666
0.25000   -0.559618   -9.826644   -0.504342
0.454134   -1.869806   -10.817507
0.50000   -0.559618   -9.826644   -0.504342
0.454134   -1.683389   -7.185348
0.75000   -0.559618   -9.826644   -0.504342
0.454134   -1.496973   -3.553189
1.00000   -0.559618   -9.826644   -0.504342
0.454134   -1.310556    0.078971

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.841861   27.177329    0.820122
3.086614    3.184113   40.066829
0.25000    0.841861   27.177329    0.820122
3.086614    2.880976   30.021448
0.50000    0.841861   27.177329    0.820122
3.086614    2.577839   19.976067
0.75000    0.841861   27.177329    0.820122
3.086614    2.274703    9.930687
1.00000    0.841861   27.177329    0.820122
3.086614    1.971566   -0.114694

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.841861   -27.177329   -0.820122
-3.086614   -3.184113   -40.066829
0.25000   -0.841861   -27.177329   -0.820122
-3.086614   -2.880976   -30.021448
0.50000   -0.841861   -27.177329   -0.820122
-3.086614   -2.577839   -19.976067
0.75000   -0.841861   -27.177329   -0.820122
-3.086614   -2.274703   -9.930687
1.00000   -0.841861   -27.177329   -0.820122
-3.086614   -1.971566    0.114694

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.841861   27.177329    0.820122
3.086614    3.184113   40.066829
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       347

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.25000    0.841861   27.177329    0.820122
3.086614    2.880976   30.021448
0.50000    0.841861   27.177329    0.820122
3.086614    2.577839   19.976067
0.75000    0.841861   27.177329    0.820122
3.086614    2.274703    9.930687
1.00000    0.841861   27.177329    0.820122
3.086614    1.971566    0.114694

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.841861   -27.177329   -0.820122
-3.086614   -3.184113   -40.066829
0.25000   -0.841861   -27.177329   -0.820122
-3.086614   -2.880976   -30.021448
0.50000   -0.841861   -27.177329   -0.820122
-3.086614   -2.577839   -19.976067
0.75000   -0.841861   -27.177329   -0.820122
-3.086614   -2.274703   -9.930687
1.00000   -0.841861   -27.177329   -0.820122
-3.086614   -1.971566   -0.114694

ELEM      160 ================== LENGTH
=     2.976955

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669   -9.359814   -2.111823    0.502947
5.16E-05    0.624568   -6.710142
0.57752   -9.359814   -2.111823    0.502947
5.16E-05    0.413713   -5.824784
0.71834   -9.359814   -2.111823    0.502947
5.16E-05    0.202858   -4.939425
0.85917   -9.359814   -2.111823    0.502947
5.16E-05   -0.007997   -4.054067
1.00000   -9.359814   -2.111823    0.502947
5.16E-05   -0.218852   -3.168709

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669   16.145265    2.533224   -0.645273
-4.81E-05   -0.799371    9.269651
0.57752   16.145265    2.533224   -0.645273
-4.81E-05   -0.528848    8.207625
0.71834   16.145265    2.533224   -0.645273
-4.81E-05   -0.258325    7.145599
0.85917   16.145265    2.533224   -0.645273
-4.81E-05    0.012199    6.083573
1.00000   16.145265    2.533224   -0.645273
-4.81E-05    0.282722    5.021547

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669   -3.503522    0.277188    0.172199
-3.36E-07    0.213906   -0.245040
0.57752   -3.503522    0.277188    0.172199
-3.36E-07    0.141714   -0.361248
0.71834   -3.503522    0.277188    0.172199
-3.36E-07    0.069521   -0.477456
0.85917   -3.503522    0.277188    0.172199
-3.36E-07   -0.002671   -0.593664
1.00000   -3.503522    0.277188    0.172199
-3.36E-07   -0.074864   -0.709872

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669   -4.280569   -0.915085   -0.037519
-3.92E-06   -0.049210   -3.025077
0.57752   -4.280569   -0.915085   -0.037519
-3.92E-06   -0.033481   -2.641438
0.71834   -4.280569   -0.915085   -0.037519
-3.92E-06   -0.017751   -2.257799
0.85917   -4.280569   -0.915085   -0.037519
-3.92E-06   -0.002022   -1.874159
1.00000   -4.280569   -0.915085   -0.037519
-3.92E-06    0.013708   -1.490520
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       348

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669    1.243542    0.274445    0.007466
6.82E-07    0.009995    0.893560
0.57752    1.243542    0.274445    0.007466
6.82E-07    0.006865    0.778503
0.71834    1.243542    0.274445    0.007466
6.82E-07    0.003736    0.663445
0.85917    1.243542    0.274445    0.007466
6.82E-07    0.000606    0.548387
1.00000    1.243542    0.274445    0.007466
6.82E-07   -0.002524    0.433329

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669   -0.244903   -0.057949    0.000180
9.42E-08    0.000113   -0.182953
0.57752   -0.244903   -0.057949    0.000180
9.42E-08    3.70E-05   -0.158659
0.71834   -0.244903   -0.057949    0.000180
9.42E-08   -3.85E-05   -0.134364
0.85917   -0.244903   -0.057949    0.000180
9.42E-08   -0.000114   -0.110070
1.00000   -0.244903   -0.057949    0.000180
9.42E-08   -0.000190   -0.085775

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669  -11.619793   -1.560190    0.682612
5.19E-05    0.848469   -6.061621
0.57752  -11.619793   -1.560190    0.682612
5.19E-05    0.562292   -5.407529
0.71834  -11.619793   -1.560190    0.682612
5.19E-05    0.276114   -4.753436
0.85917  -11.619793   -1.560190    0.682612
5.19E-05   -0.010063   -4.099344
1.00000  -11.619793   -1.560190    0.682612
5.19E-05   -0.296240   -3.445252

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669   11.619793    1.560190   -0.682612
-5.19E-05   -0.848469    6.061621
0.57752   11.619793    1.560190   -0.682612
-5.19E-05   -0.562292    5.407529
0.71834   11.619793    1.560190   -0.682612
-5.19E-05   -0.276114    4.753436
0.85917   11.619793    1.560190   -0.682612
-5.19E-05   -0.010063    4.099344
1.00000   11.619793    1.560190   -0.682612
-5.19E-05    0.296240    3.445252

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43669   16.145265    2.533224    0.682612
5.19E-05    0.848469    9.269651
0.57752   16.145265    2.533224    0.682612
5.19E-05    0.562292    8.207625
0.71834   16.145265    2.533224    0.682612
5.19E-05    0.276114    7.145599
0.85917   16.145265    2.533224    0.682612
5.19E-05    0.012199    6.083573
1.00000   16.145265    2.533224    0.682612
5.19E-05    0.296240    5.021547

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43669  -11.619793   -2.111823   -0.682612
-5.19E-05   -0.848469   -6.710142
0.57752  -11.619793   -2.111823   -0.682612
-5.19E-05   -0.562292   -5.824784
0.71834  -11.619793   -2.111823   -0.682612
-5.19E-05   -0.276114   -4.939425
0.85917  -11.619793   -2.111823   -0.682612
-5.19E-05   -0.010063   -4.099344
1.00000  -11.619793   -2.111823   -0.682612
-5.19E-05   -0.296240   -3.445252
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       349

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      161 ================== LENGTH
=     2.977880

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -9.174881   -2.181188    0.466836
-8.87E-06    0.198402   -3.168790
0.14086   -9.174881   -2.181188    0.466836
-8.87E-06    0.002578   -2.253847
0.28172   -9.174881   -2.181188    0.466836
-8.87E-06   -0.193246   -1.338904
0.42259   -9.174881   -2.181188    0.466836
-8.87E-06   -0.389070   -0.423961
0.56345   -9.174881   -2.181188    0.466836
-8.87E-06   -0.584894    0.490982

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   15.908867    2.682376   -0.577340
1.19E-05   -0.242852    5.021642
0.14086   15.908867    2.682376   -0.577340
1.19E-05   -0.000675    3.896465
0.28172   15.908867    2.682376   -0.577340
1.19E-05    0.241502    2.771289
0.42259   15.908867    2.682376   -0.577340
1.19E-05    0.483679    1.646113
0.56345   15.908867    2.682376   -0.577340
1.19E-05    0.725856    0.520936

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -3.436451    0.171284    0.157943
-2.06E-05   -0.066609   -0.709883
0.14086   -3.436451    0.171284    0.157943
-2.06E-05    0.000357   -0.781732
0.28172   -3.436451    0.171284    0.157943
-2.06E-05   -0.065896   -0.853580
0.42259   -3.436451    0.171284    0.157943
-2.06E-05   -0.132148   -0.925429
0.56345   -3.436451    0.171284    0.157943
-2.06E-05   -0.198401   -0.997277

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -4.300392   -0.881081   -0.060478
2.29E-05   -0.028311   -1.490523
0.14086   -4.300392   -0.881081   -0.060478
2.29E-05   -0.002942   -1.120936
0.28172   -4.300392   -0.881081   -0.060478
2.29E-05    0.022426   -0.751349
0.42259   -4.300392   -0.881081   -0.060478
2.29E-05    0.047795   -0.381762
0.56345   -4.300392   -0.881081   -0.060478
2.29E-05    0.073163   -0.012175

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    1.247992    0.264741    0.014032
-6.39E-06    0.006682    0.433331
0.14086    1.247992    0.264741    0.014032
-6.39E-06    0.000797    0.322280
0.28172    1.247992    0.264741    0.014032
-6.39E-06   -0.005089    0.211228
0.42259    1.247992    0.264741    0.014032
-6.39E-06   -0.010975    0.100177
0.56345    1.247992    0.264741    0.014032
-6.39E-06   -0.016861   -0.010874

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.245136   -0.056132   -0.000993
1.14E-06   -0.000530   -0.085776
0.14086   -0.245136   -0.056132   -0.000993
1.14E-06   -0.000113   -0.062230
0.28172   -0.245136   -0.056132   -0.000993
1.14E-06    0.000303   -0.038684
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       350

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.42259   -0.245136   -0.056132   -0.000993
1.14E-06    0.000720   -0.015139
0.56345   -0.245136   -0.056132   -0.000993
1.14E-06    0.001137    0.008407

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -11.363339   -1.745163    0.638811
-3.59E-05    0.271693   -3.445343
0.14086  -11.363339   -1.745163    0.638811
-3.59E-05    0.003731   -2.713299
0.28172  -11.363339   -1.745163    0.638811
-3.59E-05   -0.264231   -1.981256
0.42259  -11.363339   -1.745163    0.638811
-3.59E-05   -0.532193   -1.249212
0.56345  -11.363339   -1.745163    0.638811
-3.59E-05   -0.800155   -0.517169

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   11.363339    1.745163   -0.638811
3.59E-05   -0.271693    3.445343
0.14086   11.363339    1.745163   -0.638811
3.59E-05   -0.003731    2.713299
0.28172   11.363339    1.745163   -0.638811
3.59E-05    0.264231    1.981256
0.42259   11.363339    1.745163   -0.638811
3.59E-05    0.532193    1.249212
0.56345   11.363339    1.745163   -0.638811
3.59E-05    0.800155    0.517169

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000   15.908867    2.682376    0.638811
3.59E-05    0.271693    5.021642
0.14086   15.908867    2.682376    0.638811
3.59E-05    0.003731    3.896465
0.28172   15.908867    2.682376    0.638811
3.59E-05    0.264231    2.771289
0.42259   15.908867    2.682376    0.638811
3.59E-05    0.532193    1.646113
0.56345   15.908867    2.682376    0.638811
3.59E-05    0.800155    0.520936

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000  -11.363339   -2.181188   -0.638811
-3.59E-05   -0.271693   -3.445343
0.14086  -11.363339   -2.181188   -0.638811
-3.59E-05   -0.003731   -2.713299
0.28172  -11.363339   -2.181188   -0.638811
-3.59E-05   -0.264231   -1.981256
0.42259  -11.363339   -2.181188   -0.638811
-3.59E-05   -0.532193   -1.249212
0.56345  -11.363339   -2.181188   -0.638811
-3.59E-05   -0.800155   -0.997277

ELEM      162 ================== LENGTH
=     2.977211

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43665   -3.823241   -0.632592    0.623435
4.40E-05    0.685602   -3.022324
0.57749   -3.823241   -0.632592    0.623435
4.40E-05    0.424194   -2.757077
0.71833   -3.823241   -0.632592    0.623435
4.40E-05    0.162786   -2.491829
0.85916   -3.823241   -0.632592    0.623435
4.40E-05   -0.098622   -2.226581
1.00000   -3.823241   -0.632592    0.623435
4.40E-05   -0.360030   -1.961334
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       351

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43665    6.620869    0.758470   -0.788194
-4.08E-05   -0.866939    4.303981
0.57749    6.620869    0.758470   -0.788194
-4.08E-05   -0.536447    3.985552
0.71833    6.620869    0.758470   -0.788194
-4.08E-05   -0.205955    3.667924
0.85916    6.620869    0.758470   -0.788194
-4.08E-05    0.124537    3.349895
1.00000    6.620869    0.758470   -0.788194
-4.08E-05    0.455030    3.031867

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43665   -1.424435    0.076090    0.206903
-5.95E-07    0.227769   -0.198848
0.57749   -1.424435    0.076090    0.206903
-5.95E-07    0.141014   -0.230753
0.71833   -1.424435    0.076090    0.206903
-5.95E-07    0.054259   -0.262657
0.85916   -1.424435    0.076090    0.206903
-5.95E-07   -0.032495   -0.294562
1.00000   -1.424435    0.076090    0.206903
-5.95E-07   -0.119250   -0.326466

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43665   -1.791077   -0.264381   -0.053145
-3.25E-06   -0.058568   -1.413667
0.57749   -1.791077   -0.264381   -0.053145
-3.25E-06   -0.036284   -1.302812
0.71833   -1.791077   -0.264381   -0.053145
-3.25E-06   -0.014001   -1.191956
0.85916   -1.791077   -0.264381   -0.053145
-3.25E-06    0.008283   -1.081101
1.00000   -1.791077   -0.264381   -0.053145
-3.25E-06    0.030567   -0.970245

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43665    0.520126    0.079008    0.011067
5.64E-07    0.012204    0.414248
0.57749    0.520126    0.079008    0.011067
5.64E-07    0.007564    0.381120
0.71833    0.520126    0.079008    0.011067
5.64E-07    0.002923    0.347991
0.85916    0.520126    0.079008    0.011067
5.64E-07   -0.001717    0.314863
1.00000    0.520126    0.079008    0.011067
5.64E-07   -0.006358    0.281735

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43665   -0.102242   -0.016595   -6.57E-05
8.09E-08   -6.80E-05   -0.083389
0.57749   -0.102242   -0.016595   -6.57E-05
8.09E-08   -4.05E-05   -0.076431
0.71833   -0.102242   -0.016595   -6.57E-05
8.09E-08   -1.29E-05   -0.069473
0.85916   -0.102242   -0.016595   -6.57E-05
8.09E-08    1.47E-05   -0.062514
1.00000   -0.102242   -0.016595   -6.57E-05
8.09E-08    4.22E-05   -0.055556

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43665   -4.727550   -0.477494    0.841405
4.39E-05    0.925575   -2.806924
0.57749   -4.727550   -0.477494    0.841405
4.39E-05    0.572772   -2.606709
0.71833   -4.727550   -0.477494    0.841405
4.39E-05    0.219968   -2.406495
0.85916   -4.727550   -0.477494    0.841405
4.39E-05   -0.132835   -2.206280
1.00000   -4.727550   -0.477494    0.841405
4.39E-05   -0.485639   -2.006065
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       352

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43665    4.727550    0.477494   -0.841405
-4.39E-05   -0.925575    2.806924
0.57749    4.727550    0.477494   -0.841405
-4.39E-05   -0.572772    2.606709
0.71833    4.727550    0.477494   -0.841405
-4.39E-05   -0.219968    2.406495
0.85916    4.727550    0.477494   -0.841405
-4.39E-05    0.132835    2.206280
1.00000    4.727550    0.477494   -0.841405
-4.39E-05    0.485639    2.006065

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43665    6.620869    0.758470    0.841405
4.40E-05    0.925575    4.303981
0.57749    6.620869    0.758470    0.841405
4.40E-05    0.572772    3.985952
0.71833    6.620869    0.758470    0.841405
4.40E-05    0.219968    3.667924
0.85916    6.620869    0.758470    0.841405
4.40E-05    0.132835    3.349895
1.00000    6.620869    0.758470    0.841405
4.40E-05    0.485639    3.031867

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43665   -4.727550   -0.632592   -0.841405
-4.39E-05   -0.925575   -3.022324
0.57749   -4.727550   -0.632592   -0.841405
-4.39E-05   -0.572772   -2.757077
0.71833   -4.727550   -0.632592   -0.841405
-4.39E-05   -0.219968   -2.491829
0.85916   -4.727550   -0.632592   -0.841405
-4.39E-05   -0.132835   -2.226581
1.00000   -4.727550   -0.632592   -0.841405
-4.39E-05   -0.485639   -2.006065

ELEM      163 ================== LENGTH
=     2.977271

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -3.873253   -0.617560    0.605557
-8.53E-06    0.352105   -1.959965
0.14084   -3.873253   -0.617560    0.605557
-8.53E-06    0.098185   -1.701011
0.28168   -3.873253   -0.617560    0.605557
-8.53E-06   -0.155736   -1.442058
```

```
 0.42252   -3.873253   -0.617560    0.605557
-8.53E-06   -0.409656   -1.183104
 0.56336   -3.873253   -0.617560    0.605557
-8.53E-06   -0.663577   -0.924150

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    6.687102    0.720341   -0.751200
 1.52E-05   -0.436481    3.028917
 0.14084    6.687102    0.720341   -0.751200
 1.52E-05   -0.121490    2.726865
 0.28168    6.687102    0.720341   -0.751200
 1.52E-05    0.193501    2.424813
 0.42252    6.687102    0.720341   -0.751200
 1.52E-05    0.508493    2.122762
 0.56336    6.687102    0.720341   -0.751200
 1.52E-05    0.823484    1.820710

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -1.445980    0.113688    0.199368
-2.06E-05    0.115608   -0.324339
 0.14084   -1.445980    0.113688    0.199368
-2.06E-05    0.032009   -0.372011
 0.28168   -1.445980    0.113688    0.199368
-2.06E-05   -0.051589   -0.419682
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                        Page
<              UNEQUAL             SETTLEMENT              >
                                         353

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.42252   -1.445980    0.113688    0.199368
-2.06E-05   -0.135188   -0.467353
 0.56336   -1.445980    0.113688    0.199368
-2.06E-05   -0.218787   -0.515025

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -1.784283   -0.283271   -0.068306
 1.81E-05   -0.039720   -0.970956
 0.14084   -1.784283   -0.283271   -0.068306
 1.81E-05   -0.011078   -0.852175
 0.28168   -1.784283   -0.283271   -0.068306
 1.81E-05    0.017564   -0.733395
 0.42252   -1.784283   -0.283271   -0.068306
 1.81E-05    0.046206   -0.614614
 0.56336   -1.784283   -0.283271   -0.068306
 1.81E-05    0.074848   -0.495834

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.518509    0.084427    0.015365
-5.06E-06    0.008932    0.281937
 0.14084    0.518509    0.084427    0.015365
-5.06E-06    0.002489    0.246536
 0.28168    0.518509    0.084427    0.015365
-5.06E-06   -0.003954    0.211134
 0.42252    0.518509    0.084427    0.015365
-5.06E-06   -0.010397    0.175732
 0.56336    0.518509    0.084427    0.015365
-5.06E-06   -0.016840    0.140330

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.102096   -0.017626   -0.000784
 9.13E-07   -0.000444   -0.055594
 0.14084   -0.102096   -0.017626   -0.000784
 9.13E-07   -0.000115   -0.048203
 0.28168   -0.102096   -0.017626   -0.000784
 9.13E-07    0.000214   -0.040812
 0.42252   -0.102096   -0.017626   -0.000784
 9.13E-07    0.000542   -0.033422
 0.56336   -0.102096   -0.017626   -0.000784
 9.13E-07    0.000871   -0.026031

LOAD  -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -4.800724   -0.419444    0.820290
-3.42E-05    0.476646   -2.002367
 0.14084   -4.800724   -0.419444    0.820290
-3.42E-05    0.132683   -1.826487
 0.28168   -4.800724   -0.419444    0.820290
-3.42E-05   -0.211279   -1.650606
 0.42252   -4.800724   -0.419444    0.820290
-3.42E-05   -0.555241   -1.474726
 0.56336   -4.800724   -0.419444    0.820290
-3.42E-05   -0.899203   -1.298845

LOAD  -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    4.800724    0.419444   -0.820290
 3.42E-05   -0.476646    2.002367
 0.14084    4.800724    0.419444   -0.820290
 3.42E-05   -0.132683    1.826487
 0.28168    4.800724    0.419444   -0.820290
 3.42E-05    0.211279    1.650606
 0.42252    4.800724    0.419444   -0.820290
 3.42E-05    0.555241    1.474726
 0.56336    4.800724    0.419444   -0.820290
 3.42E-05    0.899203    1.298845

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    6.687102    0.720341    0.820290
 3.42E-05    0.476646    3.028917
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                        Page
<              UNEQUAL             SETTLEMENT              >
                                         354

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.14084    6.687102    0.720341    0.820290
 3.42E-05    0.132683    2.726865
 0.28168    6.687102    0.720341    0.820290
 3.42E-05    0.211279    2.424813
 0.42252    6.687102    0.720341    0.820290
 3.42E-05    0.555241    2.122762
 0.56336    6.687102    0.720341    0.820290
 3.42E-05    0.899203    1.820710

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -4.800724   -0.617560   -0.820290
-3.42E-05   -0.476646   -2.002367
 0.14084   -4.800724   -0.617560   -0.820290
-3.42E-05   -0.132683   -1.826487
 0.28168   -4.800724   -0.617560   -0.820290
-3.42E-05   -0.211279   -1.650606
 0.42252   -4.800724   -0.617560   -0.820290
-3.42E-05   -0.555241   -1.474726
 0.56336   -4.800724   -0.617560   -0.820290
-3.42E-05   -0.899203   -1.298845

ELEM      164 ================== LENGTH
=     2.977417

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43662   -0.501923   -0.032581    0.568634
 4.82E-05    0.638652   -1.284035
 0.57747   -0.501923   -0.032581    0.568634
 4.82E-05    0.400193   -1.270372
 0.71831   -0.501923   -0.032581    0.568634
 4.82E-05    0.161734   -1.256709
 0.85916   -0.501923   -0.032581    0.568634
 4.82E-05   -0.076725   -1.243046
 1.00000   -0.501923   -0.032581    0.568634
 4.82E-05   -0.315184   -1.229383

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43662    0.858791   -0.030203   -0.697108
-4.84E-05   -0.784175    1.834026
 0.57747    0.858791   -0.030203   -0.697108
-4.84E-05   -0.491839    1.846692
 0.71831    0.858791   -0.030203   -0.697108
-4.84E-05   -0.199504    1.859358
 0.85916    0.858791   -0.030203   -0.697108
-4.84E-05    0.092831    1.872023
 1.00000    0.858791   -0.030203   -0.697108
-4.84E-05    0.385166    1.884689

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43662   -0.175324    0.089391    0.171050
 2.21E-06    0.192539   -0.020945
 0.57747   -0.175324    0.089391    0.171050
 2.21E-06    0.120808   -0.058432
 0.71831   -0.175324    0.089391    0.171050
 2.21E-06    0.049077   -0.095918
 0.85916   -0.175324    0.089391    0.171050
 2.21E-06   -0.022653   -0.133405
 1.00000   -0.175324    0.089391    0.171050
 2.21E-06   -0.094384   -0.170892

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43662   -0.237008   -0.034665   -0.053830
-2.42E-06   -0.059432   -0.689583
 0.57747   -0.237008   -0.034665   -0.053830
-2.42E-06   -0.036859   -0.675046
 0.71831   -0.237008   -0.034665   -0.053830
-2.42E-06   -0.014285   -0.660509
 0.85916   -0.237008   -0.034665   -0.053830
-2.42E-06    0.008289   -0.645972
 1.00000   -0.237008   -0.034665   -0.053830
-2.42E-06    0.030863   -0.631435
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                        Page
<              UNEQUAL             SETTLEMENT              >
                                         355

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43662    0.069018    0.009918    0.011517
 3.32E-07    0.012650    0.199220
 0.57747    0.069058    0.009918    0.011517
 3.32E-07    0.007820    0.195061
 0.71831    0.069058    0.009918    0.011517
 3.32E-07    0.002990    0.190902
 0.85916    0.069058    0.009918    0.011517
 3.32E-07   -0.001840    0.186743
 1.00000    0.069058    0.009918    0.011517
 3.32E-07   -0.006669    0.182584

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43662   -0.013594   -0.001860   -0.000263
 1.25E-07   -0.000234   -0.038682
 0.57747   -0.013594   -0.001860   -0.000263
 1.25E-07   -0.000123   -0.037902
 0.71831   -0.013594   -0.001860   -0.000263
 1.25E-07   -1.27E-05   -0.037122
 0.85916   -0.013594   -0.001860   -0.000263
 1.25E-07    9.78E-05   -0.036342
 1.00000   -0.013594   -0.001860   -0.000263
 1.25E-07    0.000208   -0.035562

LOAD  -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43662   -0.608189    0.066728    0.751201
 5.07E-05    0.843841   -1.105760
 0.57747   -0.608189    0.066728    0.751201
 5.07E-05    0.528821   -1.133743
 0.71831   -0.608189    0.066728    0.751201
 5.07E-05    0.213802   -1.161726
 0.85916   -0.608189    0.066728    0.751201
 5.07E-05   -0.101218   -1.189709
 1.00000   -0.608189    0.066728    0.751201
 5.07E-05   -0.416237   -1.217691

LOAD  -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43662    0.608189   -0.066728   -0.751201
-5.07E-05   -0.843841    1.105760
 0.57747    0.608189   -0.066728   -0.751201
-5.07E-05   -0.528821    1.133743
 0.71831    0.608189   -0.066728   -0.751201
-5.07E-05   -0.213802    1.161726
 0.85916    0.608189   -0.066728   -0.751201
-5.07E-05    0.101218    1.189709
 1.00000    0.608189   -0.066728   -0.751201
-5.07E-05    0.416237    1.217691

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43662    0.858791    0.089391    0.751201
 5.07E-05    0.843841    1.834026
 0.57747    0.858791    0.089391    0.751201
 5.07E-05    0.528821    1.846692
 0.71831    0.858791    0.089391    0.751201
 5.07E-05    0.213802    1.859358
 0.85916    0.858791    0.089391    0.751201
 5.07E-05    0.101218    1.872023
 1.00000    0.858791    0.089391    0.751201
 5.07E-05    0.416237    1.884689

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43662   -0.608189   -0.066728   -0.751201
-5.07E-05   -0.843841   -1.284035
 0.57747   -0.608189   -0.066728   -0.751201
-5.07E-05   -0.528821   -1.270372
 0.71831   -0.608189   -0.066728   -0.751201
-5.07E-05   -0.213802   -1.256709
 0.85916   -0.608189   -0.066728   -0.751201
-5.07E-05   -0.101218   -1.243046
 1.00000   -0.608189   -0.066728   -0.751201
-5.07E-05   -0.416237   -1.229383
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                        Page
<              UNEQUAL             SETTLEMENT              >
                                         356

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      165 ================== LENGTH
=     2.977593

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.503983   -0.039875    0.583789
-1.90E-05    0.330437   -1.226586
 0.14085   -0.503983   -0.039875    0.583789
-1.90E-05    0.085597   -1.209862
 0.28170   -0.503983   -0.039875    0.583789
-1.90E-05   -0.159244   -1.193139
 0.42255   -0.503983   -0.039875    0.583789
-1.90E-05   -0.404084   -1.176415
 0.56341   -0.503983   -0.039875    0.583789
-1.90E-05   -0.648924   -1.159691

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.864837   -0.013075   -0.717330
 2.99E-05   -0.406754    1.878757
 0.14085    0.864837   -0.013075   -0.717330
 2.99E-05   -0.105907    1.884241
 0.28170    0.864837   -0.013075   -0.717330
 2.99E-05    0.194940    1.889724
 0.42255    0.864837   -0.013075   -0.717330
 2.99E-05    0.495787    1.895208
 0.56341    0.864837   -0.013075   -0.717330
 2.99E-05    0.796633    1.900692

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.180159    0.073632    0.175538
-2.02E-05    0.099141   -0.166809
 0.14085   -0.180159    0.073632    0.175538
-2.02E-05    0.025521   -0.197690
 0.28170   -0.180159    0.073632    0.175538
-2.02E-05   -0.048099   -0.228571
 0.42255   -0.180159    0.073632    0.175538
-2.02E-05   -0.121719   -0.259452
 0.56341   -0.180159    0.073632    0.175538
-2.02E-05   -0.195339   -0.290333

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.235914   -0.026947   -0.053153
 1.20E-05   -0.028872   -0.632670
 0.14085   -0.235914   -0.026947   -0.053153
 1.20E-05   -0.006580   -0.621368
 0.28170   -0.235914   -0.026947   -0.053153
 1.20E-05    0.015712   -0.610067
 0.42255   -0.235914   -0.026947   -0.053153
 1.20E-05    0.038005   -0.598765
 0.56341   -0.235914   -0.026947   -0.053153
 1.20E-05    0.060297   -0.587464

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.068755    0.007708    0.011225
-3.30E-06    0.006014    0.182935
 0.14085    0.068755    0.007708    0.011225
-3.30E-06    0.001306    0.179703
 0.28170    0.068755    0.007708    0.011225
-3.30E-06   -0.003401    0.176470
 0.42255    0.068755    0.007708    0.011225
-3.30E-06   -0.008109    0.173238
 0.56341    0.068755    0.007708    0.011225
-3.30E-06   -0.012817    0.170005

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.013537   -0.001442   -6.94E-05
 5.60E-07    3.37E-05   -0.035628
 0.14085   -0.013537   -0.001442   -6.94E-05
 5.60E-07    6.28E-05   -0.035023
 0.28170   -0.013537   -0.001442   -6.94E-05
 5.60E-07    9.19E-05   -0.034418
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                        Page
<              UNEQUAL             SETTLEMENT              >
                                         357

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.42255   -0.013537   -0.001442   -6.94E-05
 5.60E-07    0.000121   -0.033814
 0.56341   -0.013537   -0.001442   -6.94E-05
 5.60E-07    0.000150   -0.033209

LOAD  -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.615386    0.041464    0.770552
-4.25E-05    0.435592   -1.210459
 0.14085   -0.615386    0.041464    0.770552
-4.25E-05    0.112424   -1.227849
 0.28170   -0.615386    0.041464    0.770552
-4.25E-05   -0.210744   -1.245239
 0.42255   -0.615386    0.041464    0.770552
-4.25E-05   -0.533912   -1.262629
 0.56341   -0.615386    0.041464    0.770552
-4.25E-05   -0.857081   -1.280019

LOAD  -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.615386   -0.041464   -0.770552
 4.25E-05   -0.435592    1.210459
 0.14085    0.615386   -0.041464   -0.770552
 4.25E-05   -0.112424    1.227849
 0.28170    0.615386   -0.041464   -0.770552
 4.25E-05    0.210744    1.245239
 0.42255    0.615386   -0.041464   -0.770552
 4.25E-05    0.533912    1.262629
 0.56341    0.615386   -0.041464   -0.770552
 4.25E-05    0.857081    1.280019

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    0.864837    0.073632    0.770552
 4.25E-05    0.435592    1.878757
 0.14085    0.864837    0.073632    0.770552
 4.25E-05    0.112424    1.884241
 0.28170    0.864837    0.073632    0.770552
 4.25E-05    0.210744    1.889724
 0.42255    0.864837    0.073632    0.770552
 4.25E-05    0.533912    1.895208
 0.56341    0.864837    0.073632    0.770552
 4.25E-05    0.857081    1.900692

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000   -0.615386   -0.041464   -0.770552
-4.25E-05   -0.435592   -1.226586
 0.14085   -0.615386   -0.041464   -0.770552
-4.25E-05   -0.112424   -1.227849
 0.28170   -0.615386   -0.041464   -0.770552
-4.25E-05   -0.210744   -1.245239
 0.42255   -0.615386   -0.041464   -0.770552
-4.25E-05   -0.533912   -1.262629
 0.56341   -0.615386   -0.041464   -0.770552
-4.25E-05   -0.857081   -1.280019

ELEM      166 ================== LENGTH
=     2.977811

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -0.493337    0.140028    0.536804
 4.71E-05    0.603458   -0.498292
 0.57742   -0.493337    0.140028    0.536804
 4.71E-05    0.378294   -0.557017
 0.71828   -0.493337    0.140028    0.536804
 4.71E-05    0.153129   -0.615752
 0.85914   -0.493337    0.140028    0.536804
 4.71E-05   -0.072035   -0.674488
 1.00000   -0.493337    0.140028    0.536804
 4.71E-05   -0.297199   -0.733223
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                        Page
<              UNEQUAL             SETTLEMENT              >
                                         358

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -0.869575   -0.242407   -0.631902
-4.71E-05   -0.712199    0.692159
 0.57742   -0.869575   -0.242407   -0.631902
-4.71E-05   -0.447146    0.793837
 0.71828   -0.869575   -0.242407   -0.631902
-4.71E-05   -0.182093    0.895516
 0.85914   -0.869575   -0.242407   -0.631902
-4.71E-05    0.082960    0.997194
 1.00000   -0.869575   -0.242407   -0.631902
-4.71E-05    0.348014    1.098872

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    0.208854    0.087619    0.133655
 2.08E-06    0.150925    0.113644
 0.57742    0.208854    0.087619    0.133655
 2.08E-06    0.094863    0.076892
 0.71828    0.208854    0.087619    0.133655
 2.08E-06    0.038801    0.040140
 0.85914    0.208854    0.087619    0.133655
 2.08E-06   -0.017260    0.003388
 1.00000    0.208854    0.087619    0.133655
 2.08E-06   -0.073322   -0.033364

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    0.218215    0.019678   -0.048685
-2.64E-06   -0.053243   -0.399749
 0.57742    0.218215    0.019678   -0.048685
-2.64E-06   -0.032822   -0.408004
 0.71828    0.218215    0.019678   -0.048685
-2.64E-06   -0.012401   -0.416258
 0.85914    0.218215    0.019678   -0.048685
-2.64E-06    0.008020   -0.424512
 1.00000    0.218215    0.019678   -0.048685
-2.64E-06    0.028441   -0.432766

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -0.063427   -0.007022    0.010184
 4.15E-07    0.011036    0.112150
 0.57742   -0.063427   -0.007022    0.010184
 4.15E-07    0.006764    0.115096
 0.71828   -0.063427   -0.007022    0.010184
 4.15E-07    0.002492    0.118041
 0.85914   -0.063427   -0.007022    0.010184
 4.15E-07   -0.001779    0.120987
 1.00000   -0.063427   -0.007022    0.010184
 4.15E-07   -0.006051    0.123932

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    0.012597    0.002104   -5.59E-05
 1.01E-07    2.39E-05   -0.019922
 0.57742    0.012597    0.002104   -5.59E-05
 1.01E-07    4.74E-05   -0.020804
 0.71828    0.012597    0.002104   -5.59E-05
 1.01E-07    7.08E-05   -0.021687
 0.85914    0.012597    0.002104   -5.59E-05
 1.01E-07    9.43E-05   -0.022569
 1.00000    0.012597    0.002104   -5.59E-05
 1.01E-07    0.000118   -0.023452

LOAD  -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    0.638764    0.220625    0.680643
 4.96E-05    0.765419   -0.272488
 0.57742    0.638764    0.220625    0.680643
 4.96E-05    0.479921   -0.365030
 0.71828    0.638764    0.220625    0.680643
 4.96E-05    0.194423   -0.457571
 0.85914    0.638764    0.220625    0.680643
 4.96E-05   -0.091075   -0.550113
 1.00000    0.638764    0.220625    0.680643
 4.96E-05   -0.376572   -0.642654
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                                        Page
<              UNEQUAL             SETTLEMENT              >
                                         359

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -0.638764   -0.220625   -0.680643
-4.96E-05   -0.765419    0.272488
 0.57742   -0.638764   -0.220625   -0.680643
-4.96E-05   -0.479921    0.365030
 0.71828   -0.638764   -0.220625   -0.680643
-4.96E-05   -0.194423    0.457571
 0.85914   -0.638764   -0.220625   -0.680643
-4.96E-05    0.091075    0.550113
 1.00000   -0.638764   -0.220625   -0.680643
-4.96E-05    0.376572    0.642654

COMB  SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.43656    0.638764    0.220625    0.680643
 4.96E-05    0.765419    0.692159
 0.57742    0.638764    0.220625    0.680643
 4.96E-05    0.479921    0.793837
 0.71828    0.638764    0.220625    0.680643
 4.96E-05    0.194423    0.895516
 0.85914    0.638764    0.220625    0.680643
 4.96E-05    0.091075    0.997194
 1.00000    0.638764    0.220625    0.680643
 4.96E-05    0.376572    1.098872

COMB  SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.43656   -0.869575   -0.242407   -0.680643
-4.96E-05   -0.765419   -0.498282
 0.57742   -0.869575   -0.242407   -0.680643
-4.96E-05   -0.479921   -0.557017
 0.71828   -0.869575   -0.242407   -0.680643
-4.96E-05   -0.194423   -0.615752
 0.85914   -0.869575   -0.242407   -0.680643
-4.96E-05   -0.091075   -0.674488
 1.00000   -0.869575   -0.242407   -0.680643
-4.96E-05   -0.376572   -0.733223

ELEM      167 ================== LENGTH
```

```
=     2.976879

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.486716    0.138502    0.568001
-1.88E-05    0.322984   -0.729022
 0.14083    0.486716    0.138502    0.568001
-1.88E-05    0.084867   -0.787085
 0.28165    0.486716    0.138502    0.568001
-1.88E-05   -0.845148   -0.845148
 0.42248    0.486716    0.138502    0.568001
-1.88E-05   -0.391367   -0.903210
 0.56330    0.486716    0.138502    0.568001
-1.88E-05   -0.629485   -0.961273

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -0.855630   -0.239335   -0.678964
 2.62E-05   -0.387293    1.089978
 0.14083   -0.855630   -0.239335   -0.678964
 2.62E-05   -0.102658    1.190312
 0.28165   -0.855630   -0.239335   -0.678964
 2.62E-05    0.181978    1.290646
 0.42248   -0.855630   -0.239335   -0.678964
 2.62E-05    0.466613    1.390980
 0.56330   -0.855630   -0.239335   -0.678964
 2.62E-05    0.751249    1.491314

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.199423    0.085890    0.143325
-1.38E-05    0.081415   -0.027250
 0.14083    0.199423    0.085890    0.143325
-1.38E-05    0.021330   -0.063257
 0.28165    0.199423    0.085890    0.143325
-1.38E-05   -0.038755   -0.099264
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      360

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.42248    0.199423    0.085890    0.143325
-1.38E-05   -0.098840   -0.135271
 0.56330    0.199423    0.085890    0.143325
-1.38E-05   -0.158925   -0.171278

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.220931    0.019918   -0.040708
 8.13E-06   -0.021485   -0.434614
 0.14083    0.220931    0.019918   -0.040708
 8.13E-06    0.004419   -0.442964
 0.28165    0.220931    0.019918   -0.040708
 8.13E-06    0.012647   -0.451314
 0.42248    0.220931    0.019918   -0.040708
 8.13E-06    0.029712   -0.459664
 0.56330    0.220931    0.019918   -0.040708
 8.13E-06    0.046778   -0.468014

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -0.064167   -0.007092    0.007766
-2.18E-06    0.003951    0.124459
 0.14083   -0.064167   -0.007092    0.007766
-2.18E-06    0.000696    0.127432
 0.28165   -0.064167   -0.007092    0.007766
-2.18E-06   -0.002560    0.130406
 0.42248   -0.064167   -0.007092    0.007766
-2.18E-06   -0.005816    0.133379
 0.56330   -0.064167   -0.007092    0.007766
-2.18E-06   -0.009071    0.136352

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.012726    0.002118    0.000580
 3.42E-07    0.000427   -0.023550
 0.14083    0.012726    0.002118    0.000580
 3.42E-07    0.000184   -0.024438
 0.28165    0.012726    0.002118    0.000580
 3.42E-07   -5.93E-05   -0.025326
 0.42248    0.012726    0.002118    0.000580
 3.42E-07   -0.000303   -0.026213
 0.56330    0.012726    0.002118    0.000580
 3.42E-07   -0.000546   -0.027101

 LOAD  -2N+1- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.621972    0.217300    0.719092
-3.47E-05    0.408350   -0.631813
 0.14083    0.621972    0.217300    0.719092
-3.47E-05    0.106893   -0.722910
 0.28165    0.621972    0.217300    0.719092
-3.47E-05   -0.194565   -0.814006
 0.42248    0.621972    0.217300    0.719092
-3.47E-05   -0.496023   -0.905102
 0.56330    0.621972    0.217300    0.719092
-3.47E-05   -0.797481   -0.996198

 LOAD  -2N+2- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -0.621972   -0.217300   -0.719092
 3.47E-05   -0.408350    0.631813
 0.14083   -0.621972   -0.217300   -0.719092
 3.47E-05   -0.106893    0.722910
 0.28165   -0.621972   -0.217300   -0.719092
 3.47E-05    0.194565    0.814006
 0.42248   -0.621972   -0.217300   -0.719092
 3.47E-05    0.496023    0.905102
 0.56330   -0.621972   -0.217300   -0.719092
 3.47E-05    0.797481    0.996198

 COMB  SETTLE ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.621972    0.217300    0.719092
 3.47E-05    0.408350    1.089978
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      361

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.14083    0.621972    0.217300    0.719092
 3.47E-05    0.106893    1.190312
 0.28165    0.621972    0.217300    0.719092
 3.47E-05    0.194565    1.290646
 0.42248    0.621972    0.217300    0.719092
 3.47E-05    0.496023    1.390980
 0.56330    0.621972    0.217300    0.719092
 3.47E-05    0.797481    1.491314

 COMB  SETTLE ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -0.855630   -0.239335   -0.719092
-3.47E-05   -0.408350   -0.729022
 0.14083   -0.855630   -0.239335   -0.719092
-3.47E-05   -0.106893   -0.787085
 0.28165   -0.855630   -0.239335   -0.719092
-3.47E-05   -0.194565   -0.845148
 0.42248   -0.855630   -0.239335   -0.719092
-3.47E-05   -0.496023   -0.903210
 0.56330   -0.855630   -0.239335   -0.719092
-3.47E-05   -0.797481   -0.996198

 ELEM      168 ================== LENGTH
=     2.977174

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666    0.484208    0.189238    0.503209
 4.78E-05    0.565352   -0.045002
 0.57749    0.484208    0.189238    0.503209
 4.78E-05    0.354360   -0.124348
 0.71833    0.484208    0.189238    0.503209
 4.78E-05    0.143368   -0.203694
 0.85916    0.484208    0.189238    0.503209
 4.78E-05   -0.067625   -0.283040
 1.00000    0.484208    0.189238    0.503209
 4.78E-05   -0.278617   -0.362386

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666   -0.857911   -0.327690   -0.559732
-4.87E-05   -0.630732   -0.053141
 0.57749   -0.857911   -0.327690   -0.559732
-4.87E-05   -0.396040    0.084258
 0.71833   -0.857911   -0.327690   -0.559732
-4.87E-05   -0.161348    0.221656
 0.85916   -0.857911   -0.327690   -0.559732
-4.87E-05    0.073344    0.359054
 1.00000   -0.857911   -0.327690   -0.559732
-4.87E-05    0.308036    0.496453

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666    0.221042    0.132028    0.084748
 3.11E-06    0.096083    0.318547
 0.57749    0.221042    0.132028    0.084748
 3.11E-06    0.060549    0.263189
 0.71833    0.221042    0.132028    0.084748
 3.11E-06    0.025014    0.207831
 0.85916    0.221042    0.132028    0.084748
 3.11E-06   -0.010520    0.152472
 1.00000    0.221042    0.132028    0.084748
 3.11E-06   -0.046054    0.097114

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666    0.199215    0.009127   -0.035350
-2.79E-06   -0.038433   -0.285283
 0.57749    0.199215    0.009127   -0.035350
-2.79E-06   -0.023611   -0.289110
 0.71833    0.199215    0.009127   -0.035350
-2.79E-06   -0.008789   -0.292936
 0.85916    0.199215    0.009127   -0.035350
-2.79E-06    0.006034   -0.296763
 1.00000    0.199215    0.009127   -0.035350
-2.79E-06    0.020856   -0.300590
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      362

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666   -0.058377   -0.005073    0.006548
 4.85E-07    0.007000    0.075934
 0.57749   -0.058377   -0.005073    0.006548
 4.85E-07    0.004255    0.078061
 0.71833   -0.058377   -0.005073    0.006548
 4.85E-07    0.001509    0.080188
 0.85916   -0.058377   -0.005073    0.006548
 4.85E-07   -0.001236    0.082315
 1.00000   -0.058377   -0.005073    0.006548
 4.85E-07   -0.003982    0.084443

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666    0.011823    0.002371    0.000577
 7.72E-08    0.000729   -0.011056
 0.57749    0.011823    0.002371    0.000577
 7.72E-08    0.000487   -0.012050
 0.71833    0.011823    0.002371    0.000577
 7.72E-08    0.000245   -0.013044
 0.85916    0.011823    0.002371    0.000577
 7.72E-08    0.000003   -0.014038
 1.00000    0.011823    0.002371    0.000577
 7.72E-08   -0.000239   -0.015033

 LOAD  -2N+1- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666    0.646873    0.316192    0.594505
 5.14E-05    0.668436    0.349479
 0.57749    0.646873    0.316192    0.594505
 5.14E-05    0.419163    0.216902
 0.71833    0.646873    0.316192    0.594505
 5.14E-05    0.169891    0.084325
 0.85916    0.646873    0.316192    0.594505
 5.14E-05   -0.079381   -0.048253
 1.00000    0.646873    0.316192    0.594505
 5.14E-05   -0.328653   -0.180830

 LOAD  -2N+2- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666   -0.646873   -0.316192   -0.594505
-5.14E-05   -0.668436   -0.349479
 0.57749   -0.646873   -0.316192   -0.594505
-5.14E-05   -0.419163   -0.216902
 0.71833   -0.646873   -0.316192   -0.594505
-5.14E-05   -0.169891   -0.084325
 0.85916   -0.646873   -0.316192   -0.594505
-5.14E-05    0.079381    0.048253
 1.00000   -0.646873   -0.316192   -0.594505
-5.14E-05    0.328653    0.180830

 COMB  SETTLE ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666    0.646873    0.316192    0.594505
 5.14E-05    0.668436    0.349479
 0.57749    0.646873    0.316192    0.594505
 5.14E-05    0.419163    0.263189
 0.71833    0.646873    0.316192    0.594505
 5.14E-05    0.169891    0.221656
 0.85916    0.646873    0.316192    0.594505
 5.14E-05    0.079381    0.359054
 1.00000    0.646873    0.316192    0.594505
 5.14E-05    0.328653    0.496453

 COMB  SETTLE ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43666   -0.857911   -0.327690   -0.594505
-5.14E-05   -0.668436   -0.349479
 0.57749   -0.857911   -0.327690   -0.594505
-5.14E-05   -0.419163   -0.289110
 0.71833   -0.857911   -0.327690   -0.594505
-5.14E-05   -0.169891   -0.292936
 0.85916   -0.857911   -0.327690   -0.594505
-5.14E-05   -0.079381   -0.296763
 1.00000   -0.857911   -0.327690   -0.594505
-5.14E-05   -0.328653   -0.362386
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      363

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      169 ================== LENGTH
=     2.977234

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.475234    0.190110    0.532954
-1.64E-05    0.302808   -0.356903
 0.14084    0.475234    0.190110    0.532954
-1.64E-05    0.079335   -0.436618
 0.28168    0.475234    0.190110    0.532954
-1.64E-05   -0.144137   -0.516333
 0.42251    0.475234    0.190110    0.532954
-1.64E-05   -0.367609   -0.596048
 0.56335    0.475234    0.190110    0.532954
-1.64E-05   -0.591082   -0.675763

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -0.838960   -0.329285   -0.604777
 1.91E-05   -0.344788    0.484865
 0.14084   -0.838960   -0.329285   -0.604777
 1.91E-05   -0.091200    0.622937
 0.28168   -0.838960   -0.329285   -0.604777
 1.91E-05    0.162389    0.761009
 0.42251   -0.838960   -0.329285   -0.604777
 1.91E-05    0.415977    0.899080
 0.56335   -0.838960   -0.329285   -0.604777
 1.91E-05    0.669565    1.037152

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.208131    0.132702    0.093205
-6.14E-06    0.052977    0.105054
 0.14084    0.208131    0.132702    0.093205
-6.14E-06    0.013695    0.049411
 0.28168    0.208131    0.132702    0.093205
-6.14E-06   -0.025186   -0.006232
 0.42251    0.208131    0.132702    0.093205
-6.14E-06   -0.064268   -0.061875
 0.56335    0.208131    0.132702    0.093205
-6.14E-06   -0.103350   -0.117518

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.203001    0.009191   -0.026571
 4.51E-06   -0.013625   -0.302980
 0.14084    0.203001    0.009191   -0.026571
 4.51E-06   -0.002484   -0.306834
 0.28168    0.203001    0.009191   -0.026571
 4.51E-06    0.008658   -0.310688
 0.42251    0.203001    0.009191   -0.026571
 4.51E-06    0.019799   -0.314542
 0.56335    0.203001    0.009191   -0.026571
 4.51E-06    0.030941   -0.318396

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -0.059410   -0.005097    0.003907
-1.14E-06    0.001808    0.085124
 0.14084   -0.059410   -0.005097    0.003907
-1.14E-06    0.000170    0.087261
 0.28168   -0.059410   -0.005097    0.003907
-1.14E-06   -0.001469    0.089398
 0.42251   -0.059410   -0.005097    0.003907
-1.14E-06   -0.003107    0.091536
 0.56335   -0.059410   -0.005097    0.003907
-1.14E-06   -0.004745    0.093673

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.012004    0.002379    0.001282
 1.40E-07    0.000821   -0.015160
 0.14084    0.012004    0.002379    0.001282
 1.40E-07    0.000283   -0.016157
 0.28168    0.012004    0.002379    0.001282
 1.40E-07   -0.000255   -0.017154
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      364

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.42251    0.012004    0.002379    0.001282
 1.40E-07   -0.000792   -0.018152
 0.56335    0.012004    0.002379    0.001282
 1.40E-07   -0.001330   -0.019149

 LOAD  -2N+1- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.623955    0.317715    0.630067
-2.37E-05    0.357593   -0.166726
 0.14084    0.623955    0.317715    0.630067
-2.37E-05    0.093400   -0.299946
 0.28168    0.623955    0.317715    0.630067
-2.37E-05   -0.170792   -0.433166
 0.42251    0.623955    0.317715    0.630067
-2.37E-05   -0.434984   -0.566387
 0.56335    0.623955    0.317715    0.630067
-2.37E-05   -0.699177   -0.699607

 LOAD  -2N+2- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -0.623955   -0.317715   -0.630067
 2.37E-05   -0.357593    0.166726
 0.14084   -0.623955   -0.317715   -0.630067
 2.37E-05   -0.093400    0.299946
 0.28168   -0.623955   -0.317715   -0.630067
 2.37E-05    0.170792    0.433166
 0.42251   -0.623955   -0.317715   -0.630067
 2.37E-05    0.434984    0.566387
 0.56335   -0.623955   -0.317715   -0.630067
 2.37E-05    0.699177    0.699607

 COMB  SETTLE ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.623955    0.317715    0.630067
 2.37E-05    0.357593    0.484865
 0.14084    0.623955    0.317715    0.630067
 2.37E-05    0.093400    0.622937
 0.28168    0.623955    0.317715    0.630067
 2.37E-05    0.170792    0.761009
 0.42251    0.623955    0.317715    0.630067
 2.37E-05    0.434984    0.899080
 0.56335    0.623955    0.317715    0.630067
 2.37E-05    0.699177    1.037152

 COMB  SETTLE ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000   -0.838960   -0.329285   -0.630067
-2.37E-05   -0.357593   -0.356903
 0.14084   -0.838960   -0.329285   -0.630067
-2.37E-05   -0.093400   -0.436618
 0.28168   -0.838960   -0.329285   -0.630067
-2.37E-05   -0.170792   -0.516333
 0.42251   -0.838960   -0.329285   -0.630067
-2.37E-05   -0.434984   -0.596048
 0.56335   -0.838960   -0.329285   -0.630067
-2.37E-05   -0.699177   -0.699607

 ELEM      170 ================== LENGTH
=     2.977605

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659    0.262801    0.272705    0.461823
 4.75E-05    0.518462    0.399627
 0.57744    0.262801    0.272705    0.461823
 4.75E-05    0.324773    0.285254
 0.71830    0.262801    0.272705    0.461823
 4.75E-05    0.131084    0.170882
 0.85915    0.262801    0.272705    0.461823
 4.75E-05   -0.062606    0.056509
 1.00000    0.262801    0.272705    0.461823
 4.75E-05   -0.256295   -0.057864
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      365

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659   -0.475699   -0.504683   -0.470615
-4.84E-05   -0.529975   -0.868971
 0.57744   -0.475699   -0.504683   -0.470615
-4.84E-05   -0.332599   -0.657306
 0.71830   -0.475699   -0.504683   -0.470615
-4.84E-05   -0.135222   -0.445641
 0.85915   -0.475699   -0.504683   -0.470615
-4.84E-05    0.062155   -0.233977
 1.00000   -0.475699   -0.504683   -0.470615
-4.84E-05    0.259531   -0.022312

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659    0.145156    0.244762    0.021992
 3.08E-06    0.025619    0.661572
 0.57744    0.145156    0.244762    0.021992
 3.08E-06    0.016396    0.558919
 0.71830    0.145156    0.244762    0.021992
 3.08E-06    0.007173    0.456265
 0.85915    0.145156    0.244762    0.021992
 3.08E-06   -0.002050    0.353612
 1.00000    0.145156    0.244762    0.021992
 3.08E-06   -0.011274    0.250958

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659    0.088712   -0.015362   -0.015937
-2.81E-06   -0.016998    0.247232
 0.57744    0.088712   -0.015362   -0.015937
-2.81E-06   -0.010314    0.240789
 0.71830    0.088712   -0.015362   -0.015937
-2.81E-06   -0.003630   -0.234347
 0.85915    0.088712   -0.015362   -0.015937
-2.81E-06    0.003054   -0.227904
 1.00000    0.088712   -0.015362   -0.015937
-2.81E-06    0.009738   -0.221461

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659   -0.026639    0.000131    0.001231
 5.32E-07    0.001132    0.060402
 0.57744   -0.026639    0.000131    0.001231
 5.32E-07    0.000616    0.060347
 0.71830   -0.026639    0.000131    0.001231
 5.32E-07    0.000100    0.060292
 0.85915   -0.026639    0.000131    0.001231
 5.32E-07   -0.000417    0.060237
 1.00000   -0.026639    0.000131    0.001231
 5.32E-07   -0.000933    0.060182

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659    0.005669    0.002446    0.001506
 5.06E-08    0.001759   -0.005399
 0.57744    0.005669    0.002446    0.001506
 5.06E-08    0.001128   -0.006425
 0.71830    0.005669    0.002446    0.001506
 5.06E-08    0.000496   -0.007451
 0.85915    0.005669    0.002446    0.001506
 5.06E-08   -0.000135   -0.008477
 1.00000    0.005669    0.002446    0.001506
 5.06E-08   -0.000767   -0.009503

 LOAD  -2N+1- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659    0.381318    0.517598    0.485046
 5.11E-05    0.545214    1.121602
 0.57744    0.381318    0.517598    0.485046
 5.11E-05    0.341785    0.904521
 0.71830    0.381318    0.517598    0.485046
 5.11E-05    0.138356    0.687439
 0.85915    0.381318    0.517598    0.485046
 5.11E-05   -0.065073    0.470358
 1.00000    0.381318    0.517598    0.485046
 5.11E-05   -0.268502    0.253277
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      366

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD  -2N+2- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659   -0.381318   -0.517598   -0.485046
-5.11E-05   -0.545214   -1.121602
 0.57744   -0.381318   -0.517598   -0.485046
-5.11E-05   -0.341785   -0.904521
 0.71830   -0.381318   -0.517598   -0.485046
-5.11E-05   -0.138356   -0.687439
 0.85915   -0.381318   -0.517598   -0.485046
-5.11E-05    0.065073   -0.470358
 1.00000   -0.381318   -0.517598   -0.485046
-5.11E-05    0.268502   -0.253277

 COMB  SETTLE ------------------- MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43659    0.381318    0.517598    0.485046
 5.11E-05    0.545214    1.121602
 0.57744    0.381318    0.517598    0.485046
 5.11E-05    0.341785    0.904521
 0.71830    0.381318    0.517598    0.485046
 5.11E-05    0.138356    0.687439
 0.85915    0.381318    0.517598    0.485046
 5.11E-05    0.065073    0.470358
 1.00000    0.381318    0.517598    0.485046
 5.11E-05    0.268502    0.253277

 COMB  SETTLE ------------------- MIN

 REL DIST          P          V2          V3
        T          M2         M3
```

0.43659	-0.475699	-0.517598	-0.485046
-5.11E-05	-0.545214	-1.121602	
0.57744	-0.475699	-0.517598	-0.485046
-5.11E-05	-0.341785	-0.904521	
0.71830	-0.475699	-0.517598	-0.485046
-5.11E-05	-0.138356	-0.687439	
0.85915	-0.475699	-0.517598	-0.485046
-5.11E-05	-0.065073	-0.470358	
1.00000	-0.475699	-0.517598	-0.485046
-5.11E-05	-0.268502	-0.253277	

ELEM 171 ========== LENGTH = 2.977665

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.250246	0.297284	0.486031
-1.17E-05	0.275845	-0.050711	
0.14085	0.250246	0.297284	0.486031
-1.17E-05	0.071996	-0.175397	
0.28171	0.250246	0.297284	0.486031
-1.17E-05	-0.131853	-0.300082	
0.42256	0.250246	0.297284	0.486031
-1.17E-05	-0.335703	-0.424768	
0.56342	0.250246	0.297284	0.486031
-1.17E-05	-0.539552	-0.549453	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.449153	-0.556418	-0.505997
7.45E-06	-0.288184	-0.037413	
0.14085	-0.449153	-0.556418	-0.505997
7.45E-06	-0.075961	0.195957	
0.28171	-0.449153	-0.556418	-0.505997
7.45E-06	0.136263	0.429328	
0.42256	-0.449153	-0.556418	-0.505997
7.45E-06	0.348486	0.662699	
0.56342	-0.449153	-0.556418	-0.505997
7.45E-06	0.560709	0.896069	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.127016	0.279902	0.027663
3.68E-06	0.015865	0.261293	
0.14085	0.127016	0.279902	0.027663
3.68E-06	0.004263	0.143897	
0.28171	0.127016	0.279902	0.027663
3.68E-06	-0.007339	0.026502	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 367
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42256	0.127016	0.279902	0.027663
3.68E-06	-0.018941	-0.090894	
0.56342	0.127016	0.279902	0.027663
3.68E-06	-0.030544	-0.208289	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.094070	-0.025751	-0.008961
6.54E-07	-0.004023	-0.224567	
0.14085	0.094070	-0.025751	-0.008961
6.54E-07	-0.000265	-0.213767	
0.28171	0.094070	-0.025751	-0.008961
6.54E-07	0.003493	-0.202966	
0.42256	0.094070	-0.025751	-0.008961
6.54E-07	0.007252	-0.192166	
0.56342	0.094070	-0.025751	-0.008961
6.54E-07	0.011010	-0.181365	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.028107	0.003081	-0.000891
-2.54E-08	-0.000804	0.061067	
0.14085	-0.028107	0.003081	-0.000891
-2.54E-08	-0.000431	0.059775	
0.28171	-0.028107	0.003081	-0.000891
-2.54E-08	-5.70E-05	0.058483	
0.42256	-0.028107	0.003081	-0.000891
-2.54E-08	0.000316	0.057191	
0.56342	-0.028107	0.003081	-0.000891
-2.54E-08	0.000690	0.055899	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.005927	0.001902	0.002155
-8.05E-08	0.005668	0.000190	
0.14085	0.005927	0.001902	0.002155
-8.05E-08	0.000397	-0.010466	
0.28171	0.005927	0.001902	0.002155
-8.05E-08	-0.000506	-0.011264	
0.42256	0.005927	0.001902	0.002155
-8.05E-08	-0.001410	-0.012062	
0.56342	0.005927	0.001902	0.002155
-8.05E-08	-0.002314	-0.012860	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.349155	0.580267	0.512803
-8.03E-06	0.290906	0.271649	
0.14085	0.349155	0.580267	0.512803
-8.03E-06	0.075828	0.028276	
0.28171	0.349155	0.580267	0.512803
-8.03E-06	-0.139250	-0.215097	
0.42256	0.349155	0.580267	0.512803
-8.03E-06	-0.354327	-0.458471	
0.56342	0.349155	0.580267	0.512803
-8.03E-06	-0.569405	-0.701844	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.349155	-0.580267	-0.512803
8.03E-06	-0.290906	-0.271649	
0.14085	-0.349155	-0.580267	-0.512803
8.03E-06	-0.075828	-0.028276	
0.28171	-0.349155	-0.580267	-0.512803
8.03E-06	0.139250	0.215097	
0.42256	-0.349155	-0.580267	-0.512803
8.03E-06	0.354327	0.458471	
0.56342	-0.349155	-0.580267	-0.512803
8.03E-06	0.569405	0.701844	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.349155	0.580267	0.512803
8.03E-06	0.290906	0.271649	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 368
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	0.349155	0.580267	0.512803
8.03E-06	0.075828	0.195957	
0.28171	0.349155	0.580267	0.512803
8.03E-06	0.139250	0.429328	
0.42256	0.349155	0.580267	0.512803
8.03E-06	0.354327	0.662699	
0.56342	0.349155	0.580267	0.512803
8.03E-06	0.569405	0.896069	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.449153	-0.580267	-0.512803
-1.17E-05	-0.290906	-0.271649	
0.14085	-0.449153	-0.580267	-0.512803
-1.17E-05	-0.075961	-0.213767	
0.28171	-0.449153	-0.580267	-0.512803
-1.17E-05	-0.139250	-0.300082	
0.42256	-0.449153	-0.580267	-0.512803
-1.17E-05	-0.354327	-0.458471	
0.56342	-0.449153	-0.580267	-0.512803
-1.17E-05	-0.569405	-0.701844	

ELEM 172 ========== LENGTH = 2.977120

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.042632	0.459381	0.412227
4.68E-05	0.462378	0.932028	
0.57750	0.042632	0.459381	0.412227
4.68E-05	0.289539	0.739419	
0.71833	0.042632	0.459381	0.412227
4.68E-05	0.116701	0.546810	
0.85917	0.042632	0.459381	0.412227
4.68E-05	-0.056138	0.354201	
1.00000	0.042632	0.459381	0.412227
4.68E-05	-0.228976	0.161592	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-0.083157	-0.900662	-0.363385
-4.73E-05	-0.409125	-1.908855	
0.57750	-0.083157	-0.900662	-0.363385
-4.73E-05	-0.256765	-1.531225	
0.71833	-0.083157	-0.900662	-0.363385
-4.73E-05	-0.104405	-1.153595	
0.85917	-0.083157	-0.900662	-0.363385
-4.73E-05	0.047955	-0.775966	
1.00000	-0.083157	-0.900662	-0.363385
-4.73E-05	0.200315	-0.398336	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.021738	0.488135	-0.053673
2.92E-06	0.059101	1.179163	
0.57750	0.021738	0.488135	-0.053673
2.92E-06	-0.036597	0.974498	
0.71833	0.021738	0.488135	-0.053673
2.92E-06	-0.014093	0.769832	
0.85917	0.021738	0.488135	-0.053673
2.92E-06	0.008411	0.565167	
1.00000	0.021738	0.488135	-0.053673
2.92E-06	0.030915	0.360501	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.025009	-0.058648	0.007358
-3.10E-06	0.008770	-0.258194	
0.57750	0.025009	-0.058648	0.007358
-3.10E-06	0.005685	-0.233604	
0.71833	0.025009	-0.058648	0.007358
-3.10E-06	0.002600	-0.209014	
0.85917	0.025009	-0.058648	0.007358
-3.10E-06	-0.000485	-0.184425	
1.00000	0.025009	-0.058648	0.007358
-3.10E-06	-0.003570	-0.159835	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 369
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-0.007470	0.009205	-0.005134
6.75E-07	-0.005907	0.056520	
0.57750	-0.007470	0.009205	-0.005134
6.75E-07	-0.003754	0.052660	
0.71833	-0.007470	0.009205	-0.005134
6.75E-07	-0.001601	0.048801	
0.85917	-0.007470	0.009205	-0.005134
6.75E-07	0.000551	0.044941	
1.00000	-0.007470	0.009205	-0.005134
6.75E-07	0.002704	0.041082	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.001248	0.002589	0.002608
-5.75E-09	0.002986	-0.000663	
0.57750	0.001248	0.002589	0.002608
-5.75E-09	0.001892	-0.001748	
0.71833	0.001248	0.002589	0.002608
-5.75E-09	0.000799	-0.002834	
0.85917	0.001248	0.002589	0.002608
-5.75E-09	-0.000295	-0.003919	
1.00000	0.001248	0.002589	0.002608
-5.75E-09	-0.001388	-0.005004	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.056901	0.956721	0.353419
5.04E-05	0.397370	2.167712	
0.57750	0.056901	0.956721	0.353419
5.04E-05	0.249188	1.766577	
0.71833	0.056901	0.956721	0.353419
5.04E-05	0.101007	1.365443	
0.85917	0.056901	0.956721	0.353419
5.04E-05	-0.047175	0.964309	
1.00000	0.056901	0.956721	0.353419
5.04E-05	-0.195357	0.563175	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-0.056901	-0.956721	-0.353419
-5.04E-05	-0.397370	-2.167712	
0.57750	-0.056901	-0.956721	-0.353419
-5.04E-05	-0.249188	-1.766577	
0.71833	-0.056901	-0.956721	-0.353419
-5.04E-05	-0.101007	-1.365443	
0.85917	-0.056901	-0.956721	-0.353419
-5.04E-05	0.047175	-0.964309	
1.00000	-0.056901	-0.956721	-0.353419
-5.04E-05	0.195357	-0.563175	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43666	0.056901	0.956721	0.412227
5.04E-05	0.462378	2.167712	
0.57750	0.056901	0.956721	0.412227
5.04E-05	0.289539	1.766577	
0.71833	0.056901	0.956721	0.412227
5.04E-05	0.116701	1.365443	
0.85917	0.056901	0.956721	0.412227
5.04E-05	0.047955	0.964309	
1.00000	0.056901	0.956721	0.412227
5.04E-05	0.200315	0.563175	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43666	-0.083157	-0.956721	-0.363385
-5.04E-05	-0.409125	-2.167712	
0.57750	-0.083157	-0.956721	-0.363385
-5.04E-05	-0.256765	-1.766577	
0.71833	-0.083157	-0.956721	-0.363385
-5.04E-05	-0.104405	-1.365443	
0.85917	-0.083157	-0.956721	-0.363385
-5.04E-05	0.047955	-0.964309	
1.00000	-0.083157	-0.956721	-0.363385
-5.04E-05	0.200315	-0.562976	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 370
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 173 ========== LENGTH = 2.977276

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.030102	0.445980	0.431412
-7.25E-06	0.244393	0.169619	
0.14084	0.030102	0.445980	0.431412
-7.25E-06	0.063493	-0.017389	
0.28168	0.030102	0.445980	0.431412
-7.25E-06	-0.117406	-0.204397	
0.42252	0.030102	0.445980	0.431412
-7.25E-06	-0.298305	-0.391405	
0.56336	0.030102	0.445980	0.431412
-7.25E-06	-0.479205	-0.578413	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.056982	-0.872253	-0.390344
-3.34E-06	-0.221988	-0.415287	
0.14084	-0.056982	-0.872253	-0.390344
-3.34E-06	-0.058309	-0.049534	
0.28168	-0.056982	-0.872253	-0.390344
-3.34E-06	0.105370	0.316218	
0.42252	-0.056982	-0.872253	-0.390344
-3.34E-06	0.268048	0.681970	
0.56336	-0.056982	-0.872253	-0.390344
-3.34E-06	0.432727	1.047722	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.004109	0.468448	-0.049934
1.29E-05	-0.028003	0.372102	
0.14084	0.004109	0.468448	-0.049934
1.29E-05	-0.007065	0.175673	
0.28168	0.004109	0.468448	-0.049934
1.29E-05	0.013873	-0.020756	
0.42252	0.004109	0.468448	-0.049934
1.29E-05	0.034811	-0.217185	
0.56336	0.004109	0.468448	-0.049934
1.29E-05	0.055749	-0.413615	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.030145	-0.052555	0.012348
-3.07E-06	0.007703	-0.163321	
0.14084	0.030145	-0.052555	0.012348
-3.07E-06	0.002525	-0.141283	
0.28168	0.030145	-0.052555	0.012348
-3.07E-06	-0.002652	-0.119246	
0.42252	0.030145	-0.052555	0.012348
-3.07E-06	-0.007830	-0.097209	
0.56336	0.030145	-0.052555	0.012348
-3.07E-06	-0.013008	-0.075171	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.008860	0.007460	-0.006705
1.07E-06	-0.004001	0.042076	
0.14084	-0.008860	0.007460	-0.006705
1.07E-06	-0.001190	0.038948	
0.28168	-0.008860	0.007460	-0.006705
1.07E-06	0.001622	0.035820	
0.42252	-0.008860	0.007460	-0.006705
1.07E-06	0.004433	0.032692	
0.56336	-0.008860	0.007460	-0.006705
1.07E-06	0.007245	0.029564	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.001486	0.002919	0.003222
-3.12E-07	0.001696	0.000190	
0.14084	0.001486	0.002919	0.003222
-3.12E-07	0.000545	-0.006414	
0.28168	0.001486	0.002919	0.003222
-3.12E-07	-0.000806	-0.007638	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 371
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42252	0.001486	0.002919	0.003222
-3.12E-07	-0.002157	-0.008863	
0.56336	0.001486	0.002919	0.003222
-3.12E-07	-0.003508	-0.010087	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.025350	0.921888	0.374774
6.72E-06	0.212389	0.583797	
0.14084	0.025350	0.921888	0.374774
6.72E-06	0.055239	0.197232	
0.28168	0.025350	0.921888	0.374774
6.72E-06	-0.101911	-0.189333	
0.42252	0.025350	0.921888	0.374774
6.72E-06	-0.259061	-0.575898	
0.56336	0.025350	0.921888	0.374774
6.72E-06	-0.416211	-0.962464	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.025350	-0.921888	-0.374774
-6.72E-06	-0.212389	-0.583797	
0.14084	-0.025350	-0.921888	-0.374774
-6.72E-06	-0.055239	-0.197232	
0.28168	-0.025350	-0.921888	-0.374774
-6.72E-06	0.101911	0.189333	
0.42252	-0.025350	-0.921888	-0.374774
-6.72E-06	0.259061	0.575898	
0.56336	-0.025350	-0.921888	-0.374774
-6.72E-06	0.416211	0.962464	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.030145	0.921888	0.431412
1.29E-05	0.244393	0.583797	
0.14084	0.030145	0.921888	0.431412
1.29E-05	0.063493	0.197232	
0.28168	0.030145	0.921888	0.431412
1.29E-05	0.105370	0.316218	
0.42252	0.030145	0.921888	0.431412
1.29E-05	0.269048	0.681970	
0.56336	0.030145	0.921888	0.431412
1.29E-05	0.432727	1.047722	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.056982	-0.921888	-0.390344
-7.25E-06	-0.221988	-0.583797	
0.14084	-0.056982	-0.921888	-0.390344
-7.25E-06	-0.058309	-0.197232	
0.28168	-0.056982	-0.921888	-0.390344
-7.25E-06	-0.117406	-0.204397	
0.42252	-0.056982	-0.921888	-0.390344
-7.25E-06	-0.298305	-0.575898	
0.56336	-0.056982	-0.921888	-0.390344
-7.25E-06	-0.479205	-0.962464	

ELEM 174 ========== LENGTH = 2.976802

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.223025	0.680547	0.353393
4.27E-05	0.396101	1.519555	
0.57753	-0.223025	0.680547	0.353393
4.27E-05	0.247958	1.234269	
0.71836	-0.223025	0.680547	0.353393
4.27E-05	0.099815	0.948983	
0.85918	-0.223025	0.680547	0.353393
4.27E-05	-0.048327	0.663697	
1.00000	-0.223025	0.680547	0.353393
4.27E-05	-0.196470	0.378412	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 372
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.432809	-1.379524	-0.236843
-3.95E-05	-0.267056	-3.115555	
0.57753	0.432809	-1.379524	-0.236843
-3.95E-05	-0.167772	-2.527258	
0.71836	0.432809	-1.379524	-0.236843
-3.95E-05	-0.068487	-1.948961	
0.85918	0.432809	-1.379524	-0.236843
-3.95E-05	0.030798	-1.370664	
1.00000	0.432809	-1.379524	-0.236843
-3.95E-05	0.130083	-0.792367	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.232736	0.769968	-0.141790
-1.06E-06	-0.157548	1.810981	
0.57753	-0.232736	0.769968	-0.141790
-1.06E-06	-0.098109	1.488210	
0.71836	-0.232736	0.769968	-0.141790
-1.06E-06	-0.038671	1.165439	
0.85918	-0.232736	0.769968	-0.141790
-1.06E-06	0.020768	0.842668	
1.00000	-0.232736	0.769968	-0.141790
-1.06E-06	0.080206	0.519897	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.029934	-0.087858	0.033714
-2.78E-06	0.038012	-0.283786	
0.57753	0.029934	-0.087858	0.033714
-2.78E-06	0.023879	-0.246955	
0.71836	0.029934	-0.087858	0.033714
-2.78E-06	0.009747	-0.210125	
0.85918	0.029934	-0.087858	0.033714
-2.78E-06	-0.004386	-0.173295	
1.00000	0.029934	-0.087858	0.033714
-2.78E-06	-0.018519	-0.136465	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.005494	0.011718	-0.012304
6.89E-07	-0.013863	0.053069	
0.57753	-0.005494	0.011718	-0.012304
6.89E-07	-0.008975	0.048187	
0.71836	-0.005494	0.011718	-0.012304
6.89E-07	-0.003547	0.043245	
0.85918	-0.005494	0.011718	-0.012304
6.89E-07	0.001611	0.038303	
1.00000	-0.005494	0.011718	-0.012304
6.89E-07	0.006769	0.033421	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.001487	0.005149	0.003831
-6.23E-08	0.004354	0.005736	
0.57753	-0.001487	0.005149	0.003831
-6.23E-08	0.002749	0.003578	
0.71836	-0.001487	0.005149	0.003831
-6.23E-08	0.001143	0.001420	
0.85918	-0.001487	0.005149	0.003831
-6.23E-08	-0.000463	-0.000739	
1.00000	-0.001487	0.005149	0.003831
-6.23E-08	-0.002069	-0.002897	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.461255	1.462233	0.199299
4.24E-05	0.224690	3.383604	
0.57753	-0.461255	1.462233	0.199299
4.24E-05	0.141144	2.770635	
0.71836	-0.461255	1.462233	0.199299
4.24E-05	0.057598	2.157666	
0.85918	-0.461255	1.462233	0.199299
4.24E-05	-0.025949	1.544698	
1.00000	-0.461255	1.462233	0.199299
4.24E-05	-0.109495	0.931729	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 373
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.461255	-1.462233	-0.199299
-4.24E-05	-0.224690	-3.383604	
0.57753	0.461255	-1.462233	-0.199299
-4.24E-05	-0.141144	-2.770635	
0.71836	0.461255	-1.462233	-0.199299
-4.24E-05	-0.057598	-2.157666	
0.85918	0.461255	-1.462233	-0.199299
-4.24E-05	0.025949	-1.544698	
1.00000	0.461255	-1.462233	-0.199299
-4.24E-05	0.109495	-0.931729	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.461255	1.462233	0.353393
4.27E-05	0.396101	3.383604	
0.57753	0.461255	1.462233	0.353393

4.27E-05 0.247958 2.770635
0.71836 0.461255 1.462233 0.353393
4.27E-05 0.099815 2.157666
0.85918 0.461255 1.462233 0.353393
4.27E-05 0.030798 1.544698
1.00000 0.461255 1.462233 0.353393
4.27E-05 0.130083 0.931729

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.461255	-1.462233	-0.236843
-4.24E-05	-0.267056	-3.383604	
0.57753	-0.461255	-1.462233	-0.236843
-4.24E-05	-0.167772	-2.770635	
0.71836	-0.461255	-1.462233	-0.236843
-4.24E-05	-0.068487	-2.157666	
0.85918	-0.461255	-1.462233	-0.236843
-4.24E-05	-0.048327	-1.544698	
1.00000	-0.461255	-1.462233	-0.236843
-4.24E-05	-0.196470	-0.931729	

ELEM 175 ========== LENGTH = 2.977856

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.241084	0.735838	0.369450
-3.34E-06	0.209360	0.387592	
0.14086	-0.241084	0.735838	0.369450
-3.34E-06	0.054389	0.078934	
0.28172	-0.241084	0.735838	0.369450
-3.34E-06	-0.100582	-0.229723	
0.42258	-0.241084	0.735838	0.369450
-3.34E-06	-0.255553	-0.538380	
0.56344	-0.241084	0.735838	0.369450
-3.34E-06	-0.410524	-0.847038	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.471047	-1.496032	-0.259690
-1.31E-05	-0.148180	-0.811757	
0.14086	0.471047	-1.496032	-0.259690
-1.31E-05	-0.039249	-0.184226	
0.28172	0.471047	-1.496032	-0.259690
-1.31E-05	0.069681	0.443306	
0.42258	0.471047	-1.496032	-0.259690
-1.31E-05	0.178612	1.070837	
0.56344	0.471047	-1.496032	-0.259690
-1.31E-05	0.287543	1.698368	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.258740	0.848960	-0.137856
2.18E-05	-0.077437	0.533172	
0.14086	-0.258740	0.848960	-0.137856
2.18E-05	-0.019612	0.177064	
0.28172	-0.258740	0.848960	-0.137856
2.18E-05	0.038214	-0.179044	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 374

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42258	-0.258740	0.848960	-0.137856
2.18E-05	0.096040	-0.535152	
0.56344	-0.258740	0.848960	-0.137856
2.18E-05	0.153865	-0.891260	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.037456	-0.110979	0.037083
-7.06E-06	0.021399	-0.140457	
0.14086	0.037456	-0.110979	0.037083
-7.06E-06	0.005844	-0.093905	
0.28172	0.037456	-0.110979	0.037083
-7.06E-06	-0.009711	-0.047354	
0.42258	0.037456	-0.110979	0.037083
-7.06E-06	-0.025267	-0.000802	
0.56344	0.037456	-0.110979	0.037083
-7.06E-06	-0.040822	0.045749	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.007551	0.018256	-0.013458
2.29E-06	-0.007743	0.034560	
0.14086	-0.007551	0.018256	-0.013458
2.29E-06	-0.002098	0.026902	
0.28172	-0.007551	0.018256	-0.013458
2.29E-06	0.003547	0.019244	
0.42258	-0.007551	0.018256	-0.013458
2.29E-06	0.009192	0.011586	
0.56344	-0.007551	0.018256	-0.013458
2.29E-06	0.014838	0.003928	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001129	0.003956	0.004471
-5.92E-07	0.002602	-0.003110	
0.14086	-0.001129	0.003956	0.004471
-5.92E-07	0.000726	-0.004769	
0.28172	-0.001129	0.003956	0.004471
-5.92E-07	-0.001149	-0.006429	
0.42258	-0.001129	0.003956	0.004471
-5.92E-07	-0.003025	-0.008088	
0.56344	-0.001129	0.003956	0.004471
-5.92E-07	-0.004900	-0.009747	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.507374	1.603054	0.218136
2.07E-05	0.955324	0.955324	
0.14086	-0.507374	1.603054	0.218136
2.07E-05	0.032679	0.282900	
0.28172	-0.507374	1.603054	0.218136
2.07E-05	-0.058821	-0.389523	
0.42258	-0.507374	1.603054	0.218136
2.07E-05	-0.150321	-1.061947	
0.56344	-0.507374	1.603054	0.218136
2.07E-05	-0.241821	-1.734370	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.507374	-1.603054	-0.218136
-2.07E-05	-0.124179	-0.955324	
0.14086	0.507374	-1.603054	-0.218136
-2.07E-05	-0.032679	-0.282900	
0.28172	0.507374	-1.603054	-0.218136
-2.07E-05	0.058821	0.389523	
0.42258	0.507374	-1.603054	-0.218136
-2.07E-05	0.150321	1.061947	
0.56344	0.507374	-1.603054	-0.218136
-2.07E-05	0.241821	1.734370	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.507374	1.603054	0.369450
2.18E-05	0.209360	0.955324	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page

< UNEQUAL SETTLEMENT >
375

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14086	0.507374	1.603054	0.369450
2.18E-05	0.054389	0.282900	
0.28172	0.507374	1.603054	0.369450
2.18E-05	0.069681	0.443306	
0.42258	0.507374	1.603054	0.369450
2.18E-05	0.178612	1.070837	
0.56344	0.507374	1.603054	0.369450
2.18E-05	0.287543	1.734370	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.507374	-1.603054	-0.259690
-2.07E-05	-0.148180	-0.955324	
0.14086	-0.507374	-1.603054	-0.259690
-2.07E-05	-0.039249	-0.282900	
0.28172	-0.507374	-1.603054	-0.259690
-2.07E-05	-0.100582	-0.389523	
0.42258	-0.507374	-1.603054	-0.259690
-2.07E-05	-0.255553	-1.061947	
0.56344	-0.507374	-1.603054	-0.259690
-2.07E-05	-0.410524	-1.734370	

ELEM 176 ========== LENGTH = 2.977458

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.607009	1.024126	0.287260
3.69E-05	0.322697	2.178320	
0.57746	-0.607009	1.024126	0.287260
3.69E-05	0.202230	1.748838	
0.71831	-0.607009	1.024126	0.287260
3.69E-05	0.081763	1.319356	
0.85915	-0.607009	1.024126	0.287260
3.69E-05	-0.038704	0.889874	
1.00000	-0.607009	1.024126	0.287260
3.69E-05	-0.159171	0.460392	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.220673	-2.114113	-0.099079
-2.83E-05	-0.112637	-4.463103	
0.57746	1.220673	-2.114113	-0.099079
-2.83E-05	-0.071087	-3.576519	
0.71831	1.220673	-2.114113	-0.099079
-2.83E-05	-0.029537	-2.689936	
0.85915	1.220673	-2.114113	-0.099079
-2.83E-05	0.012013	-1.803352	
1.00000	1.220673	-2.114113	-0.099079
-2.83E-05	0.053564	-0.916768	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.686584	1.209899	-0.234560
-6.78E-06	-0.262324	2.561220	
0.57746	-0.686584	1.209899	-0.234560
-6.78E-06	-0.163958	2.053832	
0.71831	-0.686584	1.209899	-0.234560
-6.78E-06	-0.065592	1.546443	
0.85915	-0.686584	1.209899	-0.234560
-6.78E-06	0.032774	1.039054	
1.00000	-0.686584	1.209899	-0.234560
-6.78E-06	0.131140	0.531666	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.093333	-0.147386	0.060989
-2.36E-06	0.068659	-0.344227	
0.57746	0.093333	-0.147386	0.060989
-2.36E-06	0.043083	-0.282419	
0.71831	0.093333	-0.147386	0.060989
-2.36E-06	0.017507	-0.220610	
0.85915	0.093333	-0.147386	0.060989
-2.36E-06	-0.008070	-0.158802	
1.00000	0.093333	-0.147386	0.060989
-2.36E-06	-0.033646	-0.096993	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 376

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.016691	0.019836	-0.019669
7.08E-07	-0.022154	0.056074	
0.57746	-0.016691	0.019836	-0.019669
7.08E-07	-0.013906	0.047756	
0.71831	-0.016691	0.019836	-0.019669
7.08E-07	-0.005658	0.039438	
0.85915	-0.016691	0.019836	-0.019669
7.08E-07	0.002591	0.031119	
1.00000	-0.016691	0.019836	-0.019669
7.08E-07	0.010839	0.022801	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.003722	0.007639	0.005058
-1.38E-07	0.005760	0.011716	
0.57746	-0.003722	0.007639	0.005058
-1.38E-07	0.003639	0.008512	
0.71831	-0.003722	0.007639	0.005058
-1.38E-07	0.001517	0.005309	
0.85915	-0.003722	0.007639	0.005058
-1.38E-07	-0.000604	0.002106	
1.00000	-0.003722	0.007639	0.005058
-1.38E-07	-0.002725	-0.001098	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-1.310283	2.253861	0.033032
3.08E-05	0.038218	4.795615	
0.57746	-1.310283	2.253861	0.033032
3.08E-05	0.024365	3.850426	
0.71831	-1.310283	2.253861	0.033032
3.08E-05	0.010513	2.905237	
0.85915	-1.310283	2.253861	0.033032
3.08E-05	-0.003340	1.960048	
1.00000	-1.310283	2.253861	0.033032
3.08E-05	-0.017192	1.014859	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.310283	-2.253861	-0.033032
-3.08E-05	-0.038218	-4.795615	
0.57746	1.310283	-2.253861	-0.033032
-3.08E-05	-0.024365	-3.850426	
0.71831	1.310283	-2.253861	-0.033032
-3.08E-05	-0.010513	-2.905237	
0.85915	1.310283	-2.253861	-0.033032
-3.08E-05	0.003340	-1.960048	
1.00000	1.310283	-2.253861	-0.033032
-3.08E-05	0.017192	-1.014859	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.310283	2.253861	0.287260
3.69E-05	0.322697	4.795615	
0.57746	1.310283	2.253861	0.287260
3.69E-05	0.202230	3.850426	
0.71831	1.310283	2.253861	0.287260
3.69E-05	0.081763	2.905237	
0.85915	1.310283	2.253861	0.287260
3.69E-05	0.032774	1.960048	
1.00000	1.310283	2.253861	0.287260
3.69E-05	0.131140	1.014859	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-1.310283	-2.253861	-0.234560
-3.08E-05	-0.262324	-4.795615	
0.57746	-1.310283	-2.253861	-0.234560
-3.08E-05	-0.163958	-3.850426	
0.71831	-1.310283	-2.253861	-0.234560
-3.08E-05	-0.065592	-2.905237	
0.85915	-1.310283	-2.253861	-0.234560
-3.08E-05	-0.038704	-1.960048	
1.00000	-1.310283	-2.253861	-0.234560
-3.08E-05	0.159171	-1.014859	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 377

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 177 ========== LENGTH = 2.977518

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.624431	1.023076	0.302565
-5.06E-06	0.171113	0.469017	
0.14085	-0.624431	1.023076	0.302565
-5.06E-06	0.044223	0.039960	
0.28170	-0.624431	1.023076	0.302565
-5.06E-06	-0.082666	-0.389097	
0.42255	-0.624431	1.023076	0.302565
-5.06E-06	-0.209556	-0.818154	
0.56339	-0.624431	1.023076	0.302565
-5.06E-06	-0.336445	-1.247211	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.253158	-2.112142	-0.119944
-1.15E-05	-0.069660	-0.934986	
0.14085	1.253158	-2.112142	-0.119944
-1.15E-05	-0.019358	-0.049197	
0.28170	1.253158	-2.112142	-0.119944
-1.15E-05	0.030944	0.836592	
0.42255	1.253158	-2.112142	-0.119944
-1.15E-05	0.081246	1.722381	
0.56339	1.253158	-2.112142	-0.119944
-1.15E-05	0.131549	2.608169	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.706024	1.209694	-0.231367
2.42E-05	-0.129022	0.544157	
0.14085	-0.706024	1.209694	-0.231367
2.42E-05	-0.031991	0.036836	
0.28170	-0.706024	1.209694	-0.231367
2.42E-05	0.065039	-0.470484	
0.42255	-0.706024	1.209694	-0.231367
2.42E-05	0.162070	-0.977805	
0.56339	-0.706024	1.209694	-0.231367
2.42E-05	0.259100	-1.485126	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.098964	-0.148364	0.063614
-1.01E-05	0.035910	-0.100767	
0.14085	0.098964	-0.148364	0.063614
-1.01E-05	0.009232	-0.038546	
0.28170	0.098964	-0.148364	0.063614
-1.01E-05	-0.017446	0.023675	
0.42255	0.098964	-0.148364	0.063614
-1.01E-05	-0.044124	0.085895	
0.56339	0.098964	-0.148364	0.063614
-1.01E-05	-0.070802	0.148116	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.018186	0.020245	-0.020675
3.35E-06	-0.011686	0.023879	
0.14085	-0.018186	0.020245	-0.020675
3.35E-06	-0.003016	0.015389	
0.28170	-0.018186	0.020245	-0.020675
3.35E-06	0.005655	0.006899	
0.42255	-0.018186	0.020245	-0.020675
3.35E-06	0.014325	-0.001591	
0.56339	-0.018186	0.020245	-0.020675
3.35E-06	0.022996	-0.010082	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.003482	0.007491	0.005807
-9.05E-07	0.003345	-0.001301	
0.14085	-0.003482	0.007491	0.005807
-9.05E-07	0.000910	0.005442	
0.28170	-0.003482	0.007491	0.005807
-9.05E-07	-0.001526	-0.007584	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 378

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42255	-0.003482	0.007491	0.005807
-9.05E-07	-0.003961	-0.010726	
0.56339	-0.003482	0.007491	0.005807
-9.05E-07	-0.006397	-0.013868	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.348640	2.253014	0.050524
2.25E-05	0.030405	1.037053	
0.14085	-1.348640	2.253014	0.050524
2.25E-05	0.009216	0.092185	
0.28170	-1.348640	2.253014	0.050524
2.25E-05	-0.011972	-0.852683	
0.42255	-1.348640	2.253014	0.050524
2.25E-05	-0.033161	-1.797550	
0.56339	-1.348640	2.253014	0.050524
2.25E-05	-0.054349	-2.742418	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.348640	-2.253014	-0.050524
-2.25E-05	-0.030405	-1.037053	
0.14085	1.348640	-2.253014	-0.050524
-2.25E-05	-0.009216	-0.092185	
0.28170	1.348640	-2.253014	-0.050524
-2.25E-05	0.011972	0.852683	
0.42255	1.348640	-2.253014	-0.050524
-2.25E-05	0.033161	1.797550	
0.56339	1.348640	-2.253014	-0.050524
-2.25E-05	0.054349	2.742418	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.348640	2.253014	0.302565
2.42E-05	0.171113	1.037053	
0.14085	1.348640	2.253014	0.302565
2.42E-05	0.044223	0.092185	
0.28170	1.348640	2.253014	0.302565
2.42E-05	0.065039	0.852683	
0.42255	1.348640	2.253014	0.302565
2.42E-05	0.162070	1.797550	
0.56339	1.348640	2.253014	0.302565
2.42E-05	0.259100	2.742418	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.348640	-2.253014	-0.231367
-2.25E-05	-0.129022	-1.037053	
0.14085	-1.348640	-2.253014	-0.231367
-2.25E-05	-0.031991	-0.092185	
0.28170	-1.348640	-2.253014	-0.231367
-2.25E-05	-0.082666	-0.852683	
0.42255	-1.348640	-2.253014	-0.231367
-2.25E-05	-0.209556	-1.797550	
0.56339	-1.348640	-2.253014	-0.231367
-2.25E-05	-0.336445	-2.742418	

ELEM 178 ========== LENGTH = 2.977195

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-0.899574	1.317468	0.243116
2.16E-05	0.262971	2.629802	
0.57749	-0.899574	1.317468	0.243116
2.16E-05	0.161033	2.077389	
0.71833	-0.899574	1.317468	0.243116
2.16E-05	0.059095	1.524976	
0.85916	-0.899574	1.317468	0.243116
2.16E-05	-0.042844	0.972564	
1.00000	-0.899574	1.317468	0.243116
2.16E-05	-0.144782	0.420151	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 379

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.761287	-2.631571	0.033775
-3.84E-07	0.036114	-5.220232	
0.57749	1.761287	-2.631571	0.033775
-3.84E-07	0.021952	-4.116818	
0.71833	1.761287	-2.631571	0.033775
-3.84E-07	0.007790	-3.013403	
0.85916	1.761287	-2.631571	0.033775
-3.84E-07	-0.006371	-1.909989	
1.00000	1.761287	-2.631571	0.033775
-3.84E-07	-0.020533	-0.806574	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-0.965508	1.481831	-0.348953
-2.06E-05	-0.377275	2.929807	
0.57749	-0.965508	1.481831	-0.348953
-2.06E-05	-0.230959	2.308477	
0.71833	-0.965508	1.481831	-0.348953
-2.06E-05	-0.084644	1.687147	
0.85916	-0.965508	1.481831	-0.348953
-2.06E-05	0.061672	1.065817	
1.00000	-0.965508	1.481831	-0.348953
-2.06E-05	0.207987	0.444487	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	0.132073	-0.204346	0.094191
-9.48E-07	0.102118	-0.418645	
0.57749	0.132073	-0.204346	0.094191
-9.48E-07	0.062624	-0.332963	
0.71833	0.132073	-0.204346	0.094191
-9.48E-07	0.023130	-0.247281	
0.85916	0.132073	-0.204346	0.094191
-9.48E-07	-0.016364	-0.161598	
1.00000	0.132073	-0.204346	0.094191
-9.48E-07	-0.055858	-0.075916	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-0.022224	0.029938	-0.028917
6.30E-07	-0.031358	0.070215	
0.57749	-0.022224	0.029938	-0.028917
6.30E-07	-0.019233	0.057662	
0.71833	-0.022224	0.029938	-0.028917
6.30E-07	-0.007109	0.045110	
0.85916	-0.022224	0.029938	-0.028917
6.30E-07	0.005016	0.032557	
1.00000	-0.022224	0.029938	-0.028917
6.30E-07	0.017141	0.020004	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-0.006054	0.006681	0.006787
-2.96E-07	0.007429	0.009053	
0.57749	-0.006054	0.006681	0.006787
-2.96E-07	0.004583	0.006252	
0.71833	-0.006054	0.006681	0.006787
-2.96E-07	0.001738	0.003450	
0.85916	-0.006054	0.006681	0.006787
-2.96E-07	-0.001108	0.000649	
1.00000	-0.006054	0.006681	0.006787
-2.96E-07	-0.003954	-0.002152	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	-1.887306	2.829236	-0.134753
1.63E-06	-0.145661	5.629824	
0.57749	-1.887306	2.829236	-0.134753
1.63E-06	-0.089160	4.443529	
0.71833	-1.887306	2.829236	-0.134753
1.63E-06	-0.032658	3.257233	
0.85916	-1.887306	2.829236	-0.134753
1.63E-06	0.023844	2.070938	
1.00000	-1.887306	2.829236	-0.134753
1.63E-06	0.080346	0.884642	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 380

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43665	1.887306	-2.829236	0.134753
-1.63E-06	0.145661	-5.629824	
0.57749	1.887306	-2.829236	0.134753
-1.63E-06	0.089160	-4.443529	
0.71833	1.887306	-2.829236	0.134753
-1.63E-06	0.032658	-3.257233	

```
0.85916     1.887306    -2.829236     0.134753
-1.63E-06   -0.023844   -2.070938
1.00000     1.887306    -2.829236     0.134753
-1.63E-06   -0.080346   -0.884642

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43665     1.887306    2.829236     0.243116
2.16E-05    0.262971    5.629824
0.57749     1.887306    2.829236     0.243116
2.16E-05    0.161033    4.443529
0.71833     1.887306    2.829236     0.243116
2.16E-05    0.059095    3.257233
0.85916     1.887306    2.829236     0.243116
2.16E-05    0.061672    2.070938
1.00000     1.887306    2.829236     0.243116
2.16E-05    0.207987    0.884642

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43665    -1.887306   -2.829236    -0.348953
-2.06E-05   -0.377275   -5.629824
0.57749    -1.887306   -2.829236    -0.348953
-2.06E-05   -0.230959   -4.443529
0.71833    -1.887306   -2.829236    -0.348953
-2.06E-05   -0.084644   -3.257233
0.85916    -1.887306   -2.829236    -0.348953
-2.06E-05   -0.042844   -2.070938
1.00000    -1.887306   -2.829236    -0.348953
-2.06E-05   -0.144782   -0.884642

ELEM      179  ================== LENGTH
=     2.977337

LOAD      -A1  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.868122    1.293255     0.250584
-7.02E-06    0.150922    0.428003
0.14084    -0.868122    1.293255     0.250584
-7.02E-06    0.045844   -0.114303
0.28168    -0.868122    1.293255     0.250584
-7.02E-06   -0.059235   -0.656609
0.42253    -0.868122    1.293255     0.250584
-7.02E-06   -0.164313   -1.198915
0.56337    -0.868122    1.293255     0.250584
-7.02E-06   -0.269392   -1.741221

LOAD      -P1  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.804068   -2.608728     0.028855
-6.55E-06    0.016264   -0.823168
0.14084     1.804068   -2.608728     0.028855
-6.55E-06    0.004164    0.270761
0.28168     1.804068   -2.608728     0.028855
-6.55E-06   -0.007936    1.364689
0.42253     1.804068   -2.608728     0.028855
-6.55E-06   -0.020036    2.458618
0.56337     1.804068   -2.608728     0.028855
-6.55E-06   -0.032135    3.552547

LOAD      -P2  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -1.061239    1.511202    -0.354715
 2.30E-05   -0.212494    0.455865
0.14084    -1.061239    1.511202    -0.354715
 2.30E-05   -0.063750   -0.177834
0.28168    -1.061239    1.511202    -0.354715
 2.30E-05    0.084994   -0.811532
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL          SETTLEMENT          >
                                         381

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.42253    -1.061239    1.511202    -0.354715
 2.30E-05    0.233738   -1.445231
0.56337    -1.061239    1.511202    -0.354715
 2.30E-05    0.382482   -2.078929

LOAD      -P3  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.159980   -0.240733     0.097718
-1.25E-05    0.058739   -0.079348
0.14084     0.159980   -0.240733     0.097718
-1.25E-05    0.017763    0.021600
0.28168     0.159980   -0.240733     0.097718
-1.25E-05   -0.023214    0.122547
0.42253     0.159980   -0.240733     0.097718
-1.25E-05   -0.064190    0.223495
0.56337     0.159980   -0.240733     0.097718
-1.25E-05   -0.105167    0.324443

LOAD      -P4  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.030467    0.040150    -0.030096
 4.22E-06   -0.018107    0.020983
0.14084    -0.030467    0.040150    -0.030096
 4.22E-06   -0.005487    0.004147
0.28168    -0.030467    0.040150    -0.030096
 4.22E-06    0.007133   -0.012690
0.42253    -0.030467    0.040150    -0.030096
 4.22E-06    0.019753   -0.029526
0.56337    -0.030467    0.040150    -0.030096
 4.22E-06    0.032373   -0.046362

LOAD      -P5  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.004221    0.004854     0.007653
-1.19E-06    0.004675   -0.002336
0.14084    -0.004221    0.004854     0.007653
-1.19E-06    0.001466   -0.004371
0.28168    -0.004221    0.004854     0.007653
-1.19E-06   -0.001743   -0.006407
0.42253    -0.004221    0.004854     0.007653
-1.19E-06   -0.004952   -0.008442
0.56337    -0.004221    0.004854     0.007653
-1.19E-06   -0.008161   -0.010477

LOAD   -2N+1-  --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -1.959827    2.844607    -0.134226
 2.02E-05   -0.079679    0.904851
0.14084    -1.959827    2.844607    -0.134226
 2.02E-05   -0.023393   -0.287990
0.28168    -1.959827    2.844607    -0.134226
 2.02E-05    0.032892   -1.480830
0.42253    -1.959827    2.844607    -0.134226
 2.02E-05    0.089178   -2.673671
0.56337    -1.959827    2.844607    -0.134226
 2.02E-05    0.145464   -3.866512

LOAD   -2N+2-  --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.959827   -2.844607     0.134226
-2.02E-05   -0.079679    0.904851
0.14084     1.959827   -2.844607     0.134226
-2.02E-05    0.023393    0.287990
0.28168     1.959827   -2.844607     0.134226
-2.02E-05   -0.032892    1.480830
0.42253     1.959827   -2.844607     0.134226
-2.02E-05   -0.089178    2.673671
0.56337     1.959827   -2.844607     0.134226
-2.02E-05   -0.145464    3.866512

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.959827    2.844607     0.250584
2.30E-05    0.150922    0.904851
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL          SETTLEMENT          >
                                         382

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.14084     1.959827    2.844607     0.250584
2.30E-05    0.045844    0.287990
0.28168     1.959827    2.844607     0.250584
2.30E-05    0.084994    1.480830
0.42253     1.959827    2.844607     0.250584
2.30E-05    0.233738    2.673671
0.56337     1.959827    2.844607     0.250584
2.30E-05    0.382482    3.866512

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -1.959827   -2.844607    -0.354715
-2.02E-05   -0.212494   -0.904851
0.14084    -1.959827   -2.844607    -0.354715
-2.02E-05   -0.063750   -0.287990
0.28168    -1.959827   -2.844607    -0.354715
-2.02E-05   -0.059235   -1.480830
0.42253    -1.959827   -2.844607    -0.354715
-2.02E-05   -0.164313   -2.673671
0.56337    -1.959827   -2.844607    -0.354715
-2.02E-05   -0.269392   -3.866512

ELEM      180  ================== LENGTH
=     2.977317

LOAD      -A1  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.663728    1.120695     0.195723
 1.13E-05    0.211804    2.400905
0.57748    -0.663728    1.120695     0.195723
 1.13E-05    0.129731    1.930965
0.71832    -0.663728    1.120695     0.195723
 1.13E-05    0.047659    1.461025
0.85916    -0.663728    1.120695     0.195723
 1.13E-05   -0.034414    0.991085
1.00000    -0.663728    1.120695     0.195723
 1.13E-05   -0.116486    0.521145

LOAD      -P1  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663     1.402525   -2.189174     0.133258
 2.04E-05    0.143647   -4.661499
0.57748     1.402525   -2.189174     0.133258
 2.04E-05    0.087768   -3.743514
0.71832     1.402525   -2.189174     0.133258
 2.04E-05    0.031889   -2.825530
0.85916     1.402525   -2.189174     0.133258
 2.04E-05   -0.023989   -1.907545
1.00000     1.402525   -2.189174     0.133258
 2.04E-05   -0.079868   -0.989561

LOAD      -P2  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.836579    1.233483    -0.415003
-3.23E-05   -0.448780    2.592774
0.57748    -0.836579    1.233483    -0.415003
-3.23E-05   -0.274757    2.075539
0.71832    -0.836579    1.233483    -0.415003
-3.23E-05   -0.100734    1.558304
0.85916    -0.836579    1.233483    -0.415003
-3.23E-05    0.073289    1.041068
1.00000    -0.836579    1.233483    -0.415003
-3.23E-05    0.247312    0.523833

LOAD      -P3  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663     0.125380   -0.207022     0.112228
 4.83E-07    0.121656   -0.419862
0.57748     0.125380   -0.207022     0.112228
 4.83E-07    0.074596   -0.333052
0.71832     0.125380   -0.207022     0.112228
 4.83E-07    0.027536   -0.246242
0.85916     0.125380   -0.207022     0.112228
 4.83E-07   -0.019525   -0.159431
1.00000     0.125380   -0.207022     0.112228
 4.83E-07   -0.066585   -0.072621
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL          SETTLEMENT          >
                                         383

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.024405    0.041301    -0.033813
 4.54E-07   -0.036660    0.088260
0.57748    -0.024405    0.041301    -0.033813
 4.54E-07   -0.022481    0.070941
0.71832    -0.024405    0.041301    -0.033813
 4.54E-07   -0.008302    0.053623
0.85916    -0.024405    0.041301    -0.033813
 4.54E-07    0.005877    0.036304
1.00000    -0.024405    0.041301    -0.033813
 4.54E-07    0.020055    0.018985

LOAD      -P5  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.003193    0.000718     0.007608
-3.86E-07    0.008332   -0.000578
0.57748    -0.003193    0.000718     0.007608
-3.86E-07    0.005142   -0.000879
0.71832    -0.003193    0.000718     0.007608
-3.86E-07    0.001952   -0.001180
0.85916    -0.003193    0.000718     0.007608
-3.86E-07   -0.001239   -0.001481
1.00000    -0.003193    0.000718     0.007608
-3.86E-07   -0.004429   -0.001782

LOAD   -2N+1-  --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -1.524712    2.395478    -0.253093
-2.05E-05   -0.273636    5.081939
0.57748    -1.524712    2.395478    -0.253093
-2.05E-05   -0.167506    4.077445
0.71832    -1.524712    2.395478    -0.253093
-2.05E-05   -0.061377    3.072951
0.85916    -1.524712    2.395478    -0.253093
-2.05E-05    0.044752    2.068458
1.00000    -1.524712    2.395478    -0.253093
-2.05E-05    0.150882    1.063964

LOAD   -2N+2-  --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663     1.524712   -2.395478     0.253093
 2.05E-05    0.273636   -5.081939
0.57748     1.524712   -2.395478     0.253093
 2.05E-05    0.167506   -4.077445
0.71832     1.524712   -2.395478     0.253093
 2.05E-05    0.061377   -3.072951
0.85916     1.524712   -2.395478     0.253093
 2.05E-05   -0.044752   -2.068458
1.00000     1.524712   -2.395478     0.253093
 2.05E-05   -0.150882   -1.063964

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43663     1.524712    2.395478     0.253093
2.05E-05    0.273636    5.081939
0.57748     1.524712    2.395478     0.253093
2.05E-05    0.167506    4.077445
0.71832     1.524712    2.395478     0.253093
2.05E-05    0.061377    3.072951
0.85916     1.524712    2.395478     0.253093
2.05E-05    0.073289    2.068458
1.00000     1.524712    2.395478     0.253093
2.05E-05    0.247312    1.063964

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -1.524712   -2.395478    -0.415003
-3.23E-05   -0.448780   -5.081939
0.57748    -1.524712   -2.395478    -0.415003
-3.23E-05   -0.274757   -4.077445
0.71832    -1.524712   -2.395478    -0.415003
-3.23E-05   -0.100734   -3.072951
0.85916    -1.524712   -2.395478    -0.415003
-3.23E-05   -0.044752   -2.068458
1.00000    -1.524712   -2.395478    -0.415003
-3.23E-05   -0.150882   -1.063964
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL          SETTLEMENT          >
                                         384

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      181  ================== LENGTH
=     2.977454

LOAD      -A1  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.721200    1.131700     0.197622
-9.91E-06    0.118533    0.528318
0.14085    -0.721200    1.131700     0.197622
-9.91E-06    0.035658    0.053724
0.28169    -0.721200    1.131700     0.197622
-9.91E-06   -0.047218   -0.420870
0.42254    -0.721200    1.131700     0.197622
-9.91E-06   -0.130093   -0.895463
0.56339    -0.721200    1.131700     0.197622
-9.91E-06   -0.212968   -1.370057

LOAD      -P1  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.415259   -2.223263     0.139992
-1.71E-06    0.084178   -1.004321
0.14085     1.415259   -2.223263     0.139992
-1.71E-06    0.025471   -0.071965
0.28169     1.415259   -2.223263     0.139992
-1.71E-06   -0.033237    0.860390
0.42254     1.415259   -2.223263     0.139992
-1.71E-06   -0.091945    1.792746
0.56339     1.415259   -2.223263     0.139992
-1.71E-06   -0.150653    2.725101

LOAD      -P2  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.780086    1.274932    -0.427651
 2.23E-05   -0.256885    0.533324
0.14085    -0.780086    1.274932    -0.427651
 2.23E-05   -0.077544   -0.001336
0.28169    -0.780086    1.274932    -0.427651
 2.23E-05    0.101797   -0.535996
0.42254    -0.780086    1.274932    -0.427651
 2.23E-05    0.281139   -1.070656
0.56339    -0.780086    1.274932    -0.427651
 2.23E-05    0.460480   -1.605316

LOAD      -P3  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.110061   -0.230995     0.116620
-1.41E-05    0.070075   -0.075100
0.14085     0.110061   -0.230995     0.116620
-1.41E-05    0.021169    0.021771
0.28169     0.110061   -0.230995     0.116620
-1.41E-05   -0.027737    0.118642
0.42254     0.110061   -0.230995     0.116620
-1.41E-05   -0.076643    0.215512
0.56339     0.110061   -0.230995     0.116620
-1.41E-05   -0.125549    0.312383

LOAD      -P4  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.019593    0.048314    -0.035182
 4.85E-06   -0.021159    0.019695
0.14085    -0.019593    0.048314    -0.035182
 4.85E-06   -0.006405   -0.000566
0.28169    -0.019593    0.048314    -0.035182
 4.85E-06    0.008349   -0.020827
0.42254    -0.019593    0.048314    -0.035182
 4.85E-06    0.023103   -0.041088
0.56339    -0.019593    0.048314    -0.035182
 4.85E-06    0.037857   -0.061349

LOAD      -P5  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.004440   -0.000688     0.008599
-1.41E-06    0.005257   -0.001916
0.14085    -0.004440   -0.000688     0.008599
-1.41E-06    0.001651   -0.001628
0.28169    -0.004440   -0.000688     0.008599
-1.41E-06   -0.001955   -0.001339
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL          SETTLEMENT          >
                                         385

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.42254    -0.004440   -0.000688     0.008599
-1.41E-06   -0.005561   -0.001051
0.56339    -0.004440   -0.000688     0.008599
-1.41E-06   -0.009167   -0.000763

LOAD   -2N+1-  --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -1.520880    2.454946    -0.265211
 1.72E-05   -0.159511    1.081337
0.14085    -1.520880    2.454946    -0.265211
 1.72E-05   -0.048291    0.051822
0.28169    -1.520880    2.454946    -0.265211
 1.72E-05    0.062929   -0.977692
0.42254    -1.520880    2.454946    -0.265211
 1.72E-05    0.174149   -2.007207
0.56339    -1.520880    2.454946    -0.265211
 1.72E-05    0.285369   -3.036722

LOAD   -2N+2-  --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.520880   -2.454946     0.265211
-1.72E-05    0.159511   -1.081337
0.14085     1.520880   -2.454946     0.265211
-1.72E-05    0.048291   -0.051822
0.28169     1.520880   -2.454946     0.265211
-1.72E-05   -0.062929    0.977692
0.42254     1.520880   -2.454946     0.265211
-1.72E-05   -0.174149    2.007207
0.56339     1.520880   -2.454946     0.265211
-1.72E-05   -0.285369    3.036722

COMB  SETTLE  ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     1.520880    2.454946     0.265211
2.23E-05    0.159511    1.081337
0.14085     1.520880    2.454946     0.265211
2.23E-05    0.048291    0.053724
0.28169     1.520880    2.454946     0.265211
2.23E-05    0.101797    0.977692
0.42254     1.520880    2.454946     0.265211
2.23E-05    0.281139    2.007207
0.56339     1.520880    2.454946     0.265211
2.23E-05    0.460480    3.036722

COMB  SETTLE  ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -1.520880   -2.454946    -0.427651
-1.72E-05   -0.256885   -1.081337
0.14085    -1.520880   -2.454946    -0.427651
-1.72E-05   -0.077544   -0.071965
0.28169    -1.520880   -2.454946    -0.427651
-1.72E-05   -0.062929   -0.977692
0.42254    -1.520880   -2.454946    -0.427651
-1.72E-05   -0.174149   -2.007207
0.56339    -1.520880   -2.454946    -0.427651
-1.72E-05   -0.285369   -3.036722

ELEM      182  ================== LENGTH
=     2.977259

LOAD      -A1  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43664    -0.294761    0.819458     0.116788
 4.84E-06    0.130887    1.903327
0.57748    -0.294761    0.819458     0.116788
 4.84E-06    0.081915    1.559616
0.71832    -0.294761    0.819458     0.116788
 4.84E-06    0.032944    1.216005
0.85916    -0.294761    0.819458     0.116788
 4.84E-06   -0.016027    0.872395
1.00000    -0.294761    0.819458     0.116788
 4.84E-06   -0.064998    0.528784
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL          SETTLEMENT          >
                                         386

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43664     0.580157   -1.598516     0.256860
 3.57E-05    0.287964   -3.665326
0.57748     0.580157   -1.598516     0.256860
 3.57E-05    0.180258   -2.995045
0.71832     0.580157   -1.598516     0.256860
 3.57E-05    0.072553   -2.324764
0.85916     0.580157   -1.598516     0.256860
 3.57E-05   -0.035152   -1.654483
1.00000     0.580157   -1.598516     0.256860
 3.57E-05   -0.142857   -0.984202

LOAD      -P2  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43664    -0.317824    0.881004    -0.466558
-4.12E-05   -0.523496    1.966875
0.57748    -0.317824    0.881004    -0.466558
-4.12E-05   -0.327861    1.597437
0.71832    -0.317824    0.881004    -0.466558
-4.12E-05   -0.132226    1.228040
0.85916    -0.317824    0.881004    -0.466558
-4.12E-05    0.063409    0.858622
1.00000    -0.317824    0.881004    -0.466558
-4.12E-05    0.259043    0.489204

LOAD      -P3  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43664     0.042263   -0.128695     0.121179
 5.73E-07    0.136225    1.291555
0.57748     0.042263   -0.128695     0.121179
 5.73E-07    0.085513   -0.207692
0.71832     0.042263   -0.128695     0.121179
 5.73E-07    0.034701   -0.153728
0.85916     0.042263   -0.128695     0.121179
 5.73E-07   -0.016111   -0.099765
1.00000     0.042263   -0.128695     0.121179
 5.73E-07   -0.066923   -0.045801

LOAD      -P4  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43664    -0.007688    0.025735    -0.035997
 5.90E-07   -0.040513    0.057047
0.57748    -0.007688    0.025735    -0.035997
 5.90E-07   -0.025419    0.046256
0.71832    -0.007688    0.025735    -0.035997
 5.90E-07   -0.010325    0.035465
0.85916    -0.007688    0.025735    -0.035997
 5.90E-07    0.004769    0.024674
1.00000    -0.007688    0.025735    -0.035997
 5.90E-07    0.019864    0.013883

LOAD      -P5  ----------------

REL DIST          P           V2          V3
       T          M2          M3
0.43664    -0.002147    0.001014     0.007728
-4.99E-07    0.008833   -0.000167
0.57748    -0.002147    0.001014     0.007728
-4.99E-07    0.005592   -0.000593
0.71832    -0.002147    0.001014     0.007728
-4.99E-07    0.002352   -0.001018
0.85916    -0.002147    0.001014     0.007728
-4.99E-07   -0.000889   -0.001443
1.00000    -0.002147    0.001014     0.007728
-4.99E-07   -0.004129   -0.001868

LOAD   -2N+1-  --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43664    -0.620273    1.726196    -0.385767
-3.57E-05   -0.433122    3.927149
0.57748    -0.620273    1.726196    -0.385767
-3.57E-05   -0.271364    3.203329
0.71832    -0.620273    1.726196    -0.385767
-3.57E-05   -0.109606    2.479510
0.85916    -0.620273    1.726196    -0.385767
-3.57E-05    0.052152    1.755690
1.00000    -0.620273    1.726196    -0.385767
-3.57E-05    0.213909    1.031871
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<           UNEQUAL          SETTLEMENT          >
                                         387

F R A M E   E L E M E N T   I N T E R N A
```

L F O R C E S

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43664	0.620273	-1.726196	0.385767	
3.57E-05	0.433122	-3.927149		
0.57748	0.620273	-1.726196	0.385767	
3.57E-05	0.271364	-3.203329		
0.71832	0.620273	-1.726196	0.385767	
3.57E-05	0.109606	-2.479510		
0.85916	0.620273	-1.726196	0.385767	
3.57E-05	-0.052152	-1.755690		
1.00000	0.620273	-1.726196	0.385767	
3.57E-05	-0.213909	-1.031871		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43664	0.620273	1.726196	0.385767	
3.57E-05	0.433122	3.927149		
0.57748	0.620273	1.726196	0.385767	
3.57E-05	0.271364	3.203329		
0.71832	0.620273	1.726196	0.385767	
3.57E-05	0.109606	2.479510		
0.85916	0.620273	1.726196	0.385767	
3.57E-05	0.063409	1.755690		
1.00000	0.620273	1.726196	0.385767	
3.57E-05	0.259043	1.031871		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43664	-0.620273	-1.726196	-0.466558	
-4.12E-05	-0.523496	-3.927149		
0.57748	-0.620273	-1.726196	-0.466558	
-4.12E-05	-0.327861	-3.203329		
0.71832	-0.620273	-1.726196	-0.466558	
-4.12E-05	-0.132226	-2.479510		
0.85916	-0.620273	-1.726196	-0.466558	
-4.12E-05	-0.052152	-1.755690		
1.00000	-0.620273	-1.726196	-0.466558	
-4.12E-05	-0.213909	-1.031871		

ELEM 183 ========== LENGTH = 2.977319

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.311929	0.876850	0.117914	
-1.40E-05	0.066359	0.538336		
0.14084	-0.311929	0.876850	0.117914	
-1.40E-05	0.016914	0.170647		
0.28168	-0.311929	0.876850	0.117914	
-1.40E-05	-0.032531	-0.197042		
0.42252	-0.311929	0.876850	0.117914	
-1.40E-05	-0.081976	-0.564731		
0.56337	-0.311929	0.876850	0.117914	
-1.40E-05	-0.131421	-0.932420		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.617973	-1.715469	0.265113	
4.38E-06	0.148477	-1.002855		
0.14084	0.617973	-1.715469	0.265113	
4.38E-06	0.037307	-0.683508		
0.28168	0.617973	-1.715469	0.265113	
4.38E-06	-0.073862	0.435839		
0.42252	0.617973	-1.715469	0.265113	
4.38E-06	-0.185032	1.155186		
0.56337	0.617973	-1.715469	0.265113	
4.38E-06	-0.296202	1.874533		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.341924	0.954262	-0.480009	
2.06E-05	-0.269282	0.499526		
0.14084	-0.341924	0.954262	-0.480009	
2.06E-05	-0.068000	0.099376		
0.28168	-0.341924	0.954262	-0.480009	
2.06E-05	0.133282	-0.300775		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
388

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.42252	-0.341924	0.954262	-0.480009	
2.06E-05	0.334564	-0.700925		
0.56337	-0.341924	0.954262	-0.480009	
2.06E-05	0.535846	-1.101075		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.046754	-0.146506	0.125377	
-1.45E-05	0.070242	-0.047391		
0.14084	0.046754	-0.146506	0.125377	
-1.45E-05	0.017667	0.014043		
0.28168	0.046754	-0.146506	0.125377	
-1.45E-05	-0.034907	0.075478		
0.42252	0.046754	-0.146506	0.125377	
-1.45E-05	-0.087482	0.136912		
0.56337	0.046754	-0.146506	0.125377	
-1.45E-05	-0.140056	0.198346		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.008947	0.030769	-0.037400	
5.22E-06	-0.020990	0.014338		
0.14084	-0.008947	0.030769	-0.037400	
5.22E-06	-0.005307	0.001436		
0.28168	-0.008947	0.030769	-0.037400	
5.22E-06	0.010376	-0.011466		
0.42252	-0.008947	0.030769	-0.037400	
5.22E-06	0.026059	-0.024368		
0.56337	-0.008947	0.030769	-0.037400	
5.22E-06	0.041742	-0.037271		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.001927	9.50E-05	0.009006	
-1.63E-06	0.005195	-0.001954		
0.14084	-0.001927	9.50E-05	0.009006	
-1.63E-06	0.001419	-0.001994		
0.28168	-0.001927	9.50E-05	0.009006	
-1.63E-06	-0.002357	-0.002034		
0.42252	-0.001927	9.50E-05	0.009006	
-1.63E-06	-0.006134	-0.002074		
0.56337	-0.001927	9.50E-05	0.009006	
-1.63E-06	-0.009910	-0.002114		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.662800	1.861880	-0.399496	
1.17E-05	-0.223914	1.052200		
0.14084	-0.662800	1.861880	-0.399496	
1.17E-05	-0.056394	0.271459		
0.28168	-0.662800	1.861880	-0.399496	
1.17E-05	0.111127	-0.509283		
0.42252	-0.662800	1.861880	-0.399496	
1.17E-05	0.278647	-1.290024		
0.56337	-0.662800	1.861880	-0.399496	
1.17E-05	0.446167	-2.070766		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.662800	-1.861880	0.399496	
-1.17E-05	0.223914	-1.052200		
0.14084	0.662800	-1.861880	0.399496	
-1.17E-05	0.056394	-0.271459		
0.28168	0.662800	-1.861880	0.399496	
-1.17E-05	-0.111127	0.509283		
0.42252	0.662800	-1.861880	0.399496	
-1.17E-05	-0.278647	1.290024		
0.56337	0.662800	-1.861880	0.399496	
-1.17E-05	-0.446167	2.070766		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.662800	1.861880	0.399496	
2.06E-05	0.223914	1.052200		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
389

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.14084	0.662800	1.861880	0.399496	
2.06E-05	0.056394	0.271459		
0.28168	0.662800	1.861880	0.399496	
2.06E-05	0.133282	0.509283		
0.42252	0.662800	1.861880	0.399496	
2.06E-05	0.334564	1.290024		
0.56337	0.662800	1.861880	0.399496	
2.06E-05	0.535846	2.070766		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.662800	-1.861880	-0.480009	
-1.45E-05	-0.269282	-1.052200		
0.14084	-0.662800	-1.861880	-0.480009	
-1.45E-05	-0.068000	-0.283508		
0.28168	-0.662800	-1.861880	-0.480009	
-1.45E-05	-0.111127	-0.509283		
0.42252	-0.662800	-1.861880	-0.480009	
-1.45E-05	-0.278647	-1.290024		
0.56337	-0.662800	-1.861880	-0.480009	
-1.45E-05	-0.446167	-2.070766		

ELEM 184 ========== LENGTH = 2.978195

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	-0.058545	0.539050	0.056784	
-2.68E-07	0.063503	1.307466		
0.57738	-0.058545	0.539050	0.056784	
-2.68E-07	0.039679	1.081308		
0.71825	-0.058545	0.539050	0.056784	
-2.68E-07	0.015855	0.855151		
0.85913	-0.058545	0.539050	0.056784	
-2.68E-07	-0.007968	0.628993		
1.00000	-0.058545	0.539050	0.056784	
-2.68E-07	-0.031792	0.402835		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	0.098120	-1.020545	0.374884	
4.74E-05	0.419476	-2.434632		
0.57738	0.098120	-1.020545	0.374884	
4.74E-05	0.262194	-2.006463		
0.71825	0.098120	-1.020545	0.374884	
4.74E-05	0.104912	-1.578295		
0.85913	0.098120	-1.020545	0.374884	
4.74E-05	-0.052370	-1.150127		
1.00000	0.098120	-1.020545	0.374884	
4.74E-05	-0.209652	-0.721959		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	-0.042251	0.519413	-0.528399	
-4.98E-05	-0.591769	1.194790		
0.57738	-0.042251	0.519413	-0.528399	
-4.98E-05	-0.370080	0.976871		
0.71825	-0.042251	0.519413	-0.528399	
-4.98E-05	-0.148390	0.758952		
0.85913	-0.042251	0.519413	-0.528399	
-4.98E-05	0.073299	0.541033		
1.00000	-0.042251	0.519413	-0.528399	
-4.98E-05	0.294988	0.323114		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	0.004010	-0.048197	0.126328	
3.19E-06	0.141866	-0.090497		
0.57738	0.004010	-0.048197	0.126328	
3.19E-06	0.088866	-0.070276		
0.71825	0.004010	-0.048197	0.126328	
3.19E-06	0.035865	-0.050055		
0.85913	0.004010	-0.048197	0.126328	
3.19E-06	-0.017136	-0.029834		
1.00000	0.004010	-0.048197	0.126328	
3.19E-06	-0.070137	-0.009613		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
390

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	-0.000253	0.010199	-0.037412	
-5.22E-08	0.042045	0.025924		
0.57738	-0.000253	0.010199	-0.037412	
-5.22E-08	-0.026349	0.021645		
0.71825	-0.000253	0.010199	-0.037412	
-5.22E-08	-0.010653	0.017366		
0.85913	-0.000253	0.010199	-0.037412	
-5.22E-08	0.005043	0.013087		
1.00000	-0.000253	0.010199	-0.037412	
-5.22E-08	0.020739	0.008808		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	-0.001081	7.94E-05	0.007815	
-4.42E-07	0.008969	-0.003051		
0.57738	-0.001081	7.94E-05	0.007815	
-4.42E-07	0.005690	-0.003085		
0.71825	-0.001081	7.94E-05	0.007815	
-4.42E-07	0.002411	-0.003118		
0.85913	-0.001081	7.94E-05	0.007815	
-4.42E-07	-0.000868	-0.003151		
1.00000	-0.001081	7.94E-05	0.007815	
-4.42E-07	-0.004147	-0.003185		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	-0.101048	1.068662	-0.509027	
-5.01E-05	-0.570311	2.528180		
0.57738	-0.101048	1.068662	-0.509027	
-5.01E-05	-0.356749	2.079825		
0.71825	-0.101048	1.068662	-0.509027	
-5.01E-05	-0.143188	1.631469		
0.85913	-0.101048	1.068662	-0.509027	
-5.01E-05	0.070374	1.183113		
1.00000	-0.101048	1.068662	-0.509027	
-5.01E-05	0.283936	0.734757		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	0.101048	-1.068662	0.509027	
5.01E-05	0.570311	-2.528180		
0.57738	0.101048	-1.068662	0.509027	
5.01E-05	0.356749	-2.079825		
0.71825	0.101048	-1.068662	0.509027	
5.01E-05	0.143188	-1.631469		
0.85913	0.101048	-1.068662	0.509027	
5.01E-05	0.070374	-1.183113		
1.00000	0.101048	-1.068662	0.509027	
5.01E-05	0.283936	-0.734757		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	0.101048	1.068662	0.509027	
5.01E-05	0.570311	2.528180		
0.57738	0.101048	1.068662	0.509027	
5.01E-05	0.356749	2.079825		
0.71825	0.101048	1.068662	0.509027	
5.01E-05	0.143188	1.631469		
0.85913	0.101048	1.068662	0.509027	
5.01E-05	0.073299	1.183113		
1.00000	0.101048	1.068662	0.509027	
5.01E-05	0.294988	0.734757		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43651	-0.101048	-1.068662	-0.528399	
-5.01E-05	-0.591769	-2.528180		
0.57738	-0.101048	-1.068662	-0.528399	
-5.01E-05	-0.370080	-2.079825		
0.71825	-0.101048	-1.068662	-0.528399	
-5.01E-05	-0.148390	-1.631469		
0.85913	-0.101048	-1.068662	-0.528399	
-5.01E-05	-0.070374	-1.183113		
1.00000	-0.101048	-1.068662	-0.528399	
-5.01E-05	-0.283936	-0.734757		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
391

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 185 ========== LENGTH = 2.977259

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.069113	0.485834	0.058626	
-1.05E-05	0.033476	0.410416		
0.14084	-0.069113	0.485834	0.058626	
-1.05E-05	0.008893	0.206699		
0.28168	-0.069113	0.485834	0.058626	
-1.05E-05	-0.015690	0.002982		
0.42252	-0.069113	0.485834	0.058626	
-1.05E-05	-0.040273	-0.200735		
0.56336	-0.069113	0.485834	0.058626	
-1.05E-05	-0.064856	-0.404453		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.118031	-0.937716	0.381847	
-2.67E-06	0.214454	-0.735724		
0.14084	0.118031	-0.937716	0.381847	
-2.67E-06	0.054340	-0.342526		
0.28168	0.118031	-0.937716	0.381847	
-2.67E-06	-0.105774	0.050672		
0.42252	0.118031	-0.937716	0.381847	
-2.67E-06	-0.265888	0.443870		
0.56336	0.118031	-0.937716	0.381847	
-2.67E-06	-0.426002	0.837068		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.052184	0.510513	-0.541126	
2.57E-05	-0.304589	0.328913		
0.14084	-0.052184	0.510513	-0.541126	
2.57E-05	-0.077687	0.114847		
0.28168	-0.052184	0.510513	-0.541126	
2.57E-05	0.149215	-0.099218		
0.42252	-0.052184	0.510513	-0.541126	
2.57E-05	0.376117	-0.313284		
0.56336	-0.052184	0.510513	-0.541126	
2.57E-05	0.603019	-0.527349		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.004821	-0.075155	0.129979	
-1.67E-05	0.072972	-0.009112		
0.14084	0.004821	-0.075155	0.129979	
-1.67E-05	0.018470	0.022401		
0.28168	0.004821	-0.075155	0.129979	
-1.67E-05	-0.036032	0.053915		
0.42252	0.004821	-0.075155	0.129979	
-1.67E-05	-0.090534	0.085428		
0.56336	0.004821	-0.075155	0.129979	
-1.67E-05	-0.145036	0.116941		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.000500	0.017876	-0.038800	
6.01E-06	-0.021839	0.008666		
0.14084	-0.000500	0.017876	-0.038800	
6.01E-06	-0.005569	0.001171		
0.28168	-0.000500	0.017876	-0.038800	
6.01E-06	0.010700	-0.006325		
0.42252	-0.000500	0.017876	-0.038800	
6.01E-06	0.026969	-0.013820		
0.56336	-0.000500	0.017876	-0.038800	
6.01E-06	0.043239	-0.021316		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.001056	-0.001351	0.009473	
-1.87E-06	0.005525	-0.003159		
0.14084	-0.001056	-0.001351	0.009473	
-1.87E-06	0.001553	-0.002592		
0.28168	-0.001056	-0.001351	0.009473	
-1.87E-06	-0.002419	-0.002026		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
392

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.42252	-0.001056	-0.001351	0.009473	
-1.87E-06	-0.006392	-0.001459		
0.56336	-0.001056	-0.001351	0.009473	
-1.87E-06	-0.010364	-0.000892		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.121796	1.014222	-0.521299	
2.12E-05	-0.292952	0.747996		
0.14084	-0.121796	1.014222	-0.521299	
2.12E-05	-0.074363	0.322717		
0.28168	-0.121796	1.014222	-0.521299	
2.12E-05	-0.144225	-0.102561		
0.42252	-0.121796	1.014222	-0.521299	
2.12E-05	-0.362814	-0.527839		
0.56336	-0.121796	1.014222	-0.521299	
2.12E-05	-0.581402	-0.953118		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.121796	-1.014222	0.521299	
-2.12E-05	0.292952	-0.747996		
0.14084	0.121796	-1.014222	0.521299	
-2.12E-05	0.074363	-0.322717		
0.28168	0.121796	-1.014222	0.521299	
-2.12E-05	0.144225	0.102561		
0.42252	0.121796	-1.014222	0.521299	
-2.12E-05	0.362814	0.527839		
0.56336	0.121796	-1.014222	0.521299	
-2.12E-05	0.581402	0.953118		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.121796	1.014222	0.521299	
2.57E-05	0.292952	0.747996		
0.14084	0.121796	1.014222	0.521299	
2.57E-05	0.074363	0.322717		
0.28168	0.121796	1.014222	0.521299	
2.57E-05	0.149215	0.102561		
0.42252	0.121796	1.014222	0.521299	
2.57E-05	0.376117	0.527839		
0.56336	0.121796	1.014222	0.521299	
2.57E-05	0.603019	0.953118		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.121796	-1.014222	-0.541126	
-2.12E-05	-0.304589	-0.747996		
0.14084	-0.121796	-1.014222	-0.541126	
-2.12E-05	-0.077687	-0.342526		
0.28168	-0.121796	-1.014222	-0.541126	
-2.12E-05	-0.144225	-0.102561		
0.42252	-0.121796	-1.014222	-0.541126	
-2.12E-05	-0.362814	-0.527839		
0.56336	-0.121796	-1.014222	-0.541126	
-2.12E-05	-0.581402	-0.953118		

ELEM 186 ========== LENGTH = 2.977215

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.023238	0.250800	0.002744	
-1.89E-06	0.002973	0.773383		
0.57749	0.023238	0.250800	0.002744	
-1.89E-06	0.001823	0.668222		
0.71832	0.023238	0.250800	0.002744	
-1.89E-06	0.000672	0.563061		
0.85916	0.023238	0.250800	0.002744	
-1.89E-06	-0.000478	0.457899		
1.00000	0.023238	0.250800	0.002744	
-1.89E-06	-0.001629	0.352738		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
393

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	-0.068214	-0.447500	0.472001	
4.95E-05	0.527875	-1.329439		
0.57749	-0.068214	-0.447500	0.472001	
4.95E-05	0.329963	-1.141801		
0.71832	-0.068214	-0.447500	0.472001	
4.95E-05	0.132051	-0.954163		
0.85916	-0.068214	-0.447500	0.472001	
4.95E-05	-0.065861	-0.766524		
1.00000	-0.068214	-0.447500	0.472001	
4.95E-05	-0.263773	-0.578886		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.043094	0.197778	-0.562834	
-4.83E-05	-0.630000	0.507944		
0.57749	0.043094	0.197778	-0.562834	
-4.83E-05	-0.394002	0.425015		
0.71832	0.043094	0.197778	-0.562834	
-4.83E-05	-0.158004	0.342086		
0.85916	0.043094	0.197778	-0.562834	
-4.83E-05	0.077994	0.259157		
1.00000	0.043094	0.197778	-0.562834	
-4.83E-05	0.313993	0.176228		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.001933	-0.002755	0.115483	
5.79E-07	0.129706	0.051883		
0.57749	0.001933	-0.002755	0.115483	
5.79E-07	0.081284	0.015038		
0.71832	0.001933	-0.002755	0.115483	
5.79E-07	0.032861	0.054193		
0.85916	0.001933	-0.002755	0.115483	
5.79E-07	-0.015561	0.055348		
1.00000	0.001933	-0.002755	0.115483	
5.79E-07	-0.063983	0.056503		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.000704	0.004535	-0.034478	
7.07E-07	-0.038770	0.005352		
0.57749	0.000704	0.004535	-0.034478	
7.07E-07	-0.024314	0.003451		
0.71832	0.000704	0.004535	-0.034478	
7.07E-07	-0.009857	0.001549		
0.85916	0.000704	0.004535	-0.034478	
7.07E-07	0.004600	-0.000352		
1.00000	0.000704	0.004535	-0.034478	
7.07E-07	0.019056	-0.002254		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	-0.000756	-0.002858	0.007084	
-6.02E-07	0.008217	-0.009122		
0.57749	-0.000756	-0.002858	0.007084	
-6.02E-07	0.005247	-0.007924		
0.71832	-0.000756	-0.002858	0.007084	
-6.02E-07	0.002277	-0.006726		
0.85916	-0.000756	-0.002858	0.007084	
-6.02E-07	-0.000693	-0.005528		
1.00000	-0.000756	-0.002858	0.007084	
-6.02E-07	-0.003664	-0.004329		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.067036	0.453112	-0.594568	
-4.95E-05	-0.665798	1.286679		
0.57749	0.067036	0.453112	-0.594568	
-4.95E-05	-0.416493	1.096687		
0.71832	0.067036	0.453112	-0.594568	
-4.95E-05	-0.167189	0.906696		

```
 0.85916     0.067036     0.453112    -0.594568
-4.95E-05    0.082116     0.716704
 1.00000     0.067036     0.453112    -0.594568
-4.95E-05    0.331420     0.526712
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                394

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD  -2N+2- --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43665    -0.067036    -0.453112     0.594568
 4.95E-05    0.665798    -1.286679
 0.57749    -0.067036    -0.453112     0.594568
 4.95E-05    0.416493    -1.096687
 0.71832    -0.067036    -0.453112     0.594568
 4.95E-05    0.167189    -0.906696
 0.85916    -0.067036    -0.453112     0.594568
 4.95E-05   -0.082116    -0.716704
 1.00000    -0.067036    -0.453112     0.594568
 4.95E-05   -0.331420    -0.526712

COMB  SETTLE -------------------- MAX

REL DIST          P              V2              V3
       T          M2             M3
 0.43665     0.067036     0.453112     0.594568
 4.95E-05    0.665798     1.286679
 0.57749     0.067036     0.453112     0.594568
 4.95E-05    0.416493     1.096687
 0.71832     0.067036     0.453112     0.594568
 4.95E-05    0.167189     0.906696
 0.85916     0.067036     0.453112     0.594568
 4.95E-05    0.082116     0.716704
 1.00000     0.067036     0.453112     0.594568
 4.95E-05    0.331420     0.526712

COMB  SETTLE -------------------- MIN

REL DIST          P              V2              V3
       T          M2             M3
 0.43665    -0.068214    -0.453112    -0.594568
-4.95E-05   -0.665798    -1.329439
 0.57749    -0.068214    -0.453112    -0.594568
-4.95E-05   -0.416493    -1.141801
 0.71832    -0.068214    -0.453112    -0.594568
-4.95E-05   -0.167189    -0.954163
 0.85916    -0.068214    -0.453112    -0.594568
-4.95E-05   -0.082116    -0.766524
 1.00000    -0.068214    -0.453112    -0.594568
-4.95E-05   -0.331420    -0.578886

ELEM     187 ================== LENGTH
=     2.977338

LOAD      -A1 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.006665     0.324458     0.003549
-5.52E-06    0.002343     0.360652
 0.14084     0.006665     0.324458     0.003549
-5.52E-06    0.000855     0.224596
 0.28168     0.006665     0.324458     0.003549
-5.52E-06   -0.000633     0.088539
 0.42253     0.006665     0.324458     0.003549
-5.52E-06   -0.002121    -0.047518
 0.56337     0.006665     0.324458     0.003549
-5.52E-06   -0.003609    -0.183574

LOAD      -P1 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.040533    -0.583006     0.478015
-8.46E-06    0.268357    -0.591652
 0.14084    -0.040533    -0.583006     0.478015
-8.46E-06    0.067908    -0.347177
 0.28168    -0.040533    -0.583006     0.478015
-8.46E-06   -0.132540    -0.102702
 0.42253    -0.040533    -0.583006     0.478015
-8.46E-06   -0.332988     0.141772
 0.56337    -0.040533    -0.583006     0.478015
-8.46E-06   -0.533436     0.386247

LOAD      -P2 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.035843     0.258140    -0.572901
 2.25E-05   -0.321956     0.178581
 0.14084     0.035843     0.258140    -0.572901
 2.25E-05   -0.081719     0.070334
 0.28168     0.035843     0.258140    -0.572901
 2.25E-05    0.158518    -0.037912
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                395

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
       T          M2             M3
 0.42253     0.035843     0.258140    -0.572901
 2.25E-05    0.398755    -0.146159
 0.56337     0.035843     0.258140    -0.572901
 2.25E-05    0.638992    -0.254406

LOAD      -P3 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.002994    -0.000826     0.117786
-1.16E-05    0.065836     0.059755
 0.14084    -0.002994    -0.000826     0.117786
-1.16E-05    0.016444     0.060101
 0.28168    -0.002994    -0.000826     0.117786
-1.16E-05   -0.032948     0.060447
 0.42253    -0.002994    -0.000826     0.117786
-1.16E-05   -0.082340     0.060794
 0.56337    -0.002994    -0.000826     0.117786
-1.16E-05   -0.131731     0.061140

LOAD      -P4 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.002041     0.004008    -0.035620
 4.67E-06   -0.019988    -0.003179
 0.14084     0.002041     0.004008    -0.035620
 4.67E-06   -0.005051    -0.004860
 0.28168     0.002041     0.004008    -0.035620
 4.67E-06    0.009886    -0.006541
 0.42253     0.002041     0.004008    -0.035620
 4.67E-06    0.024823    -0.008222
 0.56337     0.002041     0.004008    -0.035620
 4.67E-06    0.039759    -0.009902

LOAD      -P5 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.001022    -0.002774     0.009171
-1.67E-06    0.005408    -0.004157
 0.14084    -0.001022    -0.002774     0.009171
-1.67E-06    0.001562    -0.002994
 0.28168    -0.001022    -0.002774     0.009171
-1.67E-06   -0.002283    -0.001831
 0.42253    -0.001022    -0.002774     0.009171
-1.67E-06   -0.006129    -0.000668
 0.56337    -0.001022    -0.002774     0.009171
-1.67E-06   -0.009975     0.000496

LOAD  -2N+1- --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.044550     0.586606    -0.604972
 2.17E-05   -0.339600     0.536054
 0.14084     0.044550     0.586606    -0.604972
 2.17E-05   -0.085915     0.290070
 0.28168     0.044550     0.586606    -0.604972
 2.17E-05    0.167771     0.044086
 0.42253     0.044550     0.586606    -0.604972
 2.17E-05    0.421457    -0.201899
 0.56337     0.044550     0.586606    -0.604972
 2.17E-05    0.675142    -0.447883

LOAD  -2N+2- --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.044550    -0.586606     0.604972
-2.17E-05    0.339600    -0.536054
 0.14084    -0.044550    -0.586606     0.604972
-2.17E-05    0.085915    -0.290070
 0.28168    -0.044550    -0.586606     0.604972
-2.17E-05   -0.167771    -0.044086
 0.42253    -0.044550    -0.586606     0.604972
-2.17E-05   -0.421457     0.201899
 0.56337    -0.044550    -0.586606     0.604972
-2.17E-05   -0.675142     0.447883

COMB  SETTLE -------------------- MAX

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.044550     0.586606     0.604972
 2.25E-05    0.339600     0.536054
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                396

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
       T          M2             M3
 0.14084     0.044550     0.586606     0.604972
 2.25E-05    0.085915     0.290070
 0.28168     0.044550     0.586606     0.604972
 2.25E-05    0.167771     0.088539
 0.42253     0.044550     0.586606     0.604972
 2.25E-05    0.421457     0.201899
 0.56337     0.044550     0.586606     0.604972
 2.25E-05    0.675142     0.447883

COMB  SETTLE -------------------- MIN

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.044550    -0.586606    -0.604972
-2.17E-05   -0.339600    -0.591652
 0.14084    -0.044550    -0.586606    -0.604972
-2.17E-05   -0.085915    -0.347177
 0.28168    -0.044550    -0.586606    -0.604972
-2.17E-05   -0.167771    -0.102702
 0.42253    -0.044550    -0.586606    -0.604972
-2.17E-05   -0.421457    -0.201899
 0.56337    -0.044550    -0.586606    -0.604972
-2.17E-05   -0.675142    -0.447883

ELEM     188 ================== LENGTH
=     2.977307

LOAD      -A1 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43664     0.019212     0.153357    -0.042986
-2.91E-06   -0.048572     0.482256
 0.57748     0.019212     0.153357    -0.042986
-2.91E-06   -0.030546     0.417949
 0.71832     0.019212     0.153357    -0.042986
-2.91E-06   -0.012521     0.353642
 0.85916     0.019212     0.153357    -0.042986
-2.91E-06    0.005504     0.289335
 1.00000     0.019212     0.153357    -0.042986
-2.91E-06    0.023529     0.225028

LOAD      -P1 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43664    -0.043595    -0.223460     0.541979
 5.29E-05    0.606609    -0.659349
 0.57748    -0.043595    -0.223460     0.541979
 5.29E-05    0.379343    -0.556646
 0.71832    -0.043595    -0.223460     0.541979
 5.29E-05    0.152077    -0.471943
 0.85916    -0.043595    -0.223460     0.541979
 5.29E-05   -0.075190    -0.378241
 1.00000    -0.043595    -0.223460     0.541979
 5.29E-05   -0.302456    -0.284538

LOAD      -P2 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43664     0.003188     0.017169    -0.563686
 5.23E-05    0.631012     0.021032
 0.57748     0.003188     0.017169    -0.563686
-5.23E-05   -0.394643    -0.028231
 0.71832     0.003188     0.017169    -0.563686
-5.23E-05   -0.158274    -0.035431
 0.85916     0.003188     0.017169    -0.563686
-5.23E-05    0.078094    -0.042630
 1.00000     0.003188     0.017169    -0.563686
-5.23E-05    0.314463    -0.049829

LOAD      -P3 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43664     0.024480     0.064234     0.085685
 2.74E-06    0.096272     0.235515
 0.57748     0.024480     0.064234     0.085685
 2.74E-06    0.060342     0.208580
 0.71832     0.024480     0.064234     0.085685
 2.74E-06    0.024412     0.181645
 0.85916     0.024480     0.064234     0.085685
 2.74E-06   -0.011517     0.154710
 1.00000     0.024480     0.064234     0.085685
 2.74E-06   -0.047447     0.127775
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                397

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43664    -0.003124    -0.005433    -0.026357
 7.16E-09   -0.029677    -0.020912
 0.57748    -0.003124    -0.005433    -0.026357
 7.16E-09   -0.018625    -0.018634
 0.71832    -0.003124    -0.005433    -0.026357
 7.16E-09   -0.007572    -0.016356
 0.85916    -0.003124    -0.005433    -0.026357
 7.16E-09    0.003480    -0.014077
 1.00000    -0.003124    -0.005433    -0.026357
 7.16E-09    0.014532    -0.011799

LOAD      -P5 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43664    -0.000161    -0.005867     0.005365
-4.40E-07    0.006378    -0.016478
 0.57748    -0.000161    -0.005867     0.005365
-4.40E-07    0.004129    -0.014018
 0.71832    -0.000161    -0.005867     0.005365
-4.40E-07    0.001879    -0.011558
 0.85916    -0.000161    -0.005867     0.005365
-4.40E-07   -0.000371    -0.009097
 1.00000    -0.000161    -0.005867     0.005365
-4.40E-07   -0.002621    -0.006637

LOAD  -2N+1- --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43664     0.019276     0.165093    -0.633029
-5.52E-05   -0.709260     0.440311
 0.57748     0.019276     0.165093    -0.633029
-5.52E-05   -0.443814     0.371084
 0.71832     0.019276     0.165093    -0.633029
-5.52E-05   -0.178368     0.301856
 0.85916     0.019276     0.165093    -0.633029
-5.52E-05    0.087078     0.232628
 1.00000     0.019276     0.165093    -0.633029
-5.52E-05    0.352525     0.163400

LOAD  -2N+2- --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43664    -0.019276    -0.165093     0.633029
 5.52E-05    0.709260    -0.440311
 0.57748    -0.019276    -0.165093     0.633029
 5.52E-05    0.443814    -0.371084
 0.71832    -0.019276    -0.165093     0.633029
 5.52E-05    0.178368    -0.301856
 0.85916    -0.019276    -0.165093     0.633029
 5.52E-05   -0.087078    -0.232628
 1.00000    -0.019276    -0.165093     0.633029
 5.52E-05   -0.352525    -0.163400

COMB  SETTLE -------------------- MAX

REL DIST          P              V2              V3
       T          M2             M3
 0.43664     0.024480     0.165093     0.633029
 5.52E-05    0.709260     0.482256
 0.57748     0.024480     0.165093     0.633029
 5.52E-05    0.443814     0.417949
 0.71832     0.024480     0.165093     0.633029
 5.52E-05    0.178368     0.353642
 0.85916     0.024480     0.165093     0.633029
 5.52E-05    0.087078     0.289335
 1.00000     0.024480     0.165093     0.633029
 5.52E-05    0.352525     0.225028

COMB  SETTLE -------------------- MIN

REL DIST          P              V2              V3
       T          M2             M3
 0.43664    -0.043595    -0.223460    -0.633029
-5.52E-05   -0.709260    -0.659349
 0.57748    -0.043595    -0.223460    -0.633029
-5.52E-05   -0.443814    -0.565646
 0.71832    -0.043595    -0.223460    -0.633029
-5.52E-05   -0.178368    -0.471943
 0.85916    -0.043595    -0.223460    -0.633029
-5.52E-05   -0.087078    -0.378241
 1.00000    -0.043595    -0.223460    -0.633029
-5.52E-05   -0.352525    -0.284538
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                398

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM     189 ================== LENGTH
=     2.977425

LOAD      -A1 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.009514     0.152795    -0.044390
 7.75E-07   -0.024698     0.231098
 0.14085     0.009514     0.152795    -0.044390
 7.75E-07   -0.006083     0.167022
 0.28169     0.009514     0.152795    -0.044390
 7.75E-07    0.012533     0.102947
 0.42254     0.009514     0.152795    -0.044390
 7.75E-07    0.031148     0.038871
 0.56338     0.009514     0.152795    -0.044390
 7.75E-07    0.049764    -0.025205

LOAD      -P1 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.031299    -0.220079     0.549819
-1.82E-05    0.308658    -0.292313
 0.14085    -0.031299    -0.220079     0.549819
-1.82E-05    0.078088    -0.200022
 0.28169    -0.031299    -0.220079     0.549819
-1.82E-05   -0.152482    -0.107730
 0.42254    -0.031299    -0.220079     0.549819
-1.82E-05   -0.383052    -0.015439
 0.56338    -0.031299    -0.220079     0.549819
-1.82E-05   -0.613622     0.076853

LOAD      -P2 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.007842     0.011372    -0.572894
 2.35E-05   -0.321801    -0.052673
 0.14085     0.007842     0.011372    -0.572894
 2.35E-05   -0.081554    -0.057442
 0.28169     0.007842     0.011372    -0.572894
 2.35E-05    0.158692    -0.062210
 0.42254     0.007842     0.011372    -0.572894
 2.35E-05    0.398939    -0.066979
 0.56338     0.007842     0.011372    -0.572894
 2.35E-05    0.639185    -0.071748

LOAD      -P3 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.015184     0.068108     0.086740
-8.47E-06    0.048301     0.133697
 0.14085     0.015184     0.068108     0.086740
-8.47E-06    0.011926     0.105135
 0.28169     0.015184     0.068108     0.086740
-8.47E-06   -0.024449     0.076574
 0.42254     0.015184     0.068108     0.086740
-8.47E-06   -0.060825     0.048012
 0.56338     0.015184     0.068108     0.086740
-8.47E-06   -0.097200     0.019451

LOAD      -P4 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.000594    -0.006508    -0.027301
 3.86E-06   -0.015308    -0.013486
 0.14085    -0.000594    -0.006508    -0.027301
 3.86E-06   -0.003859    -0.010757
 0.28169    -0.000594    -0.006508    -0.027301
 3.86E-06    0.007590    -0.008028
 0.42254    -0.000594    -0.006508    -0.027301
 3.86E-06    0.019039    -0.005299
 0.56338    -0.000594    -0.006508    -0.027301
 3.86E-06    0.030488    -0.002570

LOAD      -P5 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.000647    -0.005689     0.008026
-1.52E-06    0.004848    -0.006323
 0.14085    -0.000647    -0.005689     0.008026
-1.52E-06    0.001482    -0.003937
 0.28169    -0.000647    -0.005689     0.008026
-1.52E-06   -0.001883    -0.001552
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                399

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P              V2              V3
       T          M2             M3
 0.42254    -0.000647    -0.005689     0.008026
-1.52E-06   -0.005249     0.000834
 0.56338    -0.000647    -0.005689     0.008026
-1.52E-06   -0.008615     0.003219

LOAD  -2N+1- --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.016762     0.157659    -0.644585
 2.82E-05   -0.361807     0.164939
 0.14085     0.016762     0.157659    -0.644585
 2.82E-05   -0.091496     0.098824
 0.28169     0.016762     0.157659    -0.644585
 2.82E-05    0.178815     0.032708
 0.42254     0.016762     0.157659    -0.644585
 2.82E-05    0.449126    -0.033407
 0.56338     0.016762     0.157659    -0.644585
 2.82E-05    0.719437    -0.099523

LOAD  -2N+2- --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.016762    -0.157659     0.644585
-2.82E-05    0.361807    -0.164939
 0.14085    -0.016762    -0.157659     0.644585
-2.82E-05    0.091496    -0.098824
 0.28169    -0.016762    -0.157659     0.644585
-2.82E-05   -0.178815    -0.032708
 0.42254    -0.016762    -0.157659     0.644585
-2.82E-05   -0.449126     0.033407
 0.56338    -0.016762    -0.157659     0.644585
-2.82E-05   -0.719437     0.099523

COMB  SETTLE -------------------- MAX

REL DIST          P              V2              V3
       T          M2             M3
 0.00000     0.016762     0.157659     0.644585
 2.82E-05    0.361807     0.231098
 0.14085     0.016762     0.157659     0.644585
 2.82E-05    0.091496     0.186822
 0.28169     0.016762     0.157659     0.644585
 2.82E-05    0.178815     0.102947
 0.42254     0.016762     0.157659     0.644585
 2.82E-05    0.449126     0.048012
 0.56338     0.016762     0.157659     0.644585
 2.82E-05    0.719437     0.099523

COMB  SETTLE -------------------- MIN

REL DIST          P              V2              V3
       T          M2             M3
 0.00000    -0.031299    -0.220079    -0.644585
-2.82E-05   -0.361807    -0.292313
 0.14085    -0.031299    -0.220079    -0.644585
-2.82E-05   -0.091496    -0.200022
 0.28169    -0.031299    -0.220079    -0.644585
-2.82E-05   -0.178815    -0.107730
 0.42254    -0.031299    -0.220079    -0.644585
-2.82E-05   -0.449126    -0.066979
 0.56338    -0.031299    -0.220079    -0.644585
-2.82E-05   -0.719437    -0.099523

ELEM     190 ================== LENGTH
=     2.977528

LOAD      -A1 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43660    -0.003167     0.080680    -0.075422
-3.54E-06   -0.085104     0.283168
 0.57745    -0.003167     0.080680    -0.075422
-3.54E-06   -0.053474     0.249332
 0.71830    -0.003167     0.080680    -0.075422
-3.54E-06   -0.021843     0.215496
 0.85915    -0.003167     0.080680    -0.075422
-3.54E-06    0.009787     0.181660
 1.00000    -0.003167     0.080680    -0.075422
-3.54E-06    0.041418     0.147824
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                400

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43660     0.008564     0.002116     0.576080
 5.35E-05    0.645134    -0.066433
 0.57745     0.008564     0.002116     0.576080
 5.35E-05    0.403536    -0.067321
 0.71830     0.008564     0.002116     0.576080
 5.35E-05    0.161938    -0.068208
 0.85915     0.008564     0.002116     0.576080
 5.35E-05   -0.079660    -0.069095
 1.00000     0.008564     0.002116     0.576080
 5.35E-05   -0.321257    -0.069983

LOAD      -P2 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43660    -0.050401    -0.212864    -0.527631
-5.18E-05   -0.590917    -0.613945
 0.57745    -0.050401    -0.212864    -0.527631
-5.18E-05   -0.369638    -0.524674
 0.71830    -0.050401    -0.212864    -0.527631
-5.18E-05   -0.148360    -0.435402
 0.85915    -0.050401    -0.212864    -0.527631
-5.18E-05    0.072919    -0.346130
 1.00000    -0.050401    -0.212864    -0.527631
-5.18E-05    0.294198    -0.256859

LOAD      -P3 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43660     0.051576     0.158180     0.037531
 2.21E-06    0.042427     0.475069
 0.57745     0.051576     0.158180     0.037531
 2.21E-06    0.026687     0.408731
 0.71830     0.051576     0.158180     0.037531
 2.21E-06    0.010947     0.342393
 0.85915     0.051576     0.158180     0.037531
 2.21E-06   -0.004793     0.276055
 1.00000     0.051576     0.158180     0.037531
 2.21E-06   -0.020533     0.209717

LOAD      -P4 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43660    -0.007647    -0.015010    -0.013227
-7.36E-08   -0.015018    -0.046172
 0.57745    -0.007647    -0.015010    -0.013227
-7.36E-08   -0.009471    -0.039877
 0.71830    -0.007647    -0.015010    -0.013227
-7.36E-08   -0.003924    -0.033582
 0.85915    -0.007647    -0.015010    -0.013227
-7.36E-08    0.001623    -0.027287
 1.00000    -0.007647    -0.015010    -0.013227
-7.36E-08    0.007170    -0.020992

LOAD      -P5 --------------------

REL DIST          P              V2              V3
       T          M2             M3
 0.43660     0.001075    -0.013102     0.002668
-3.23E-07    0.003479    -0.031686
 0.57745     0.001075    -0.013102     0.002668
-3.23E-07    0.002360    -0.026191
 0.71830     0.001075    -0.013102     0.002668
-3.23E-07    0.001241    -0.020697
 0.85915     0.001075    -0.013102     0.002668
-3.23E-07    0.000122    -0.015202
 1.00000     0.001075    -0.013102     0.002668
```

-3.23E-07 -0.000997 -0.009707

LOAD -2N+1- --------------------

REL DIST P V2 V3
T M2 M3
0.43660 -0.061215 -0.147194 -0.616280
-5.54E-05 -0.691040 -0.376950
0.57745 -0.061215 -0.147194 -0.616280
-5.54E-05 -0.432583 -0.315219
0.71830 -0.061215 -0.147194 -0.616280
-5.54E-05 -0.174127 -0.253488
0.85915 -0.061215 -0.147194 -0.616280
-5.54E-05 0.084330 -0.191758
1.00000 -0.061215 -0.147194 -0.616280
-5.54E-05 0.342787 -0.130027

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- --------------------

REL DIST P V2 V3
T M2 M3
0.43660 0.061215 0.147194 0.616280
5.54E-05 0.691040 0.376950
0.57745 0.061215 0.147194 0.616280
5.54E-05 0.432583 0.315219
0.71830 0.061215 0.147194 0.616280
5.54E-05 0.174127 0.253488
0.85915 0.061215 0.147194 0.616280
5.54E-05 -0.084330 0.191758
1.00000 0.061215 0.147194 0.616280
5.54E-05 -0.342787 0.130027

COMB SETTLE -------------------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 0.061215 0.158180 0.616280
5.54E-05 0.691040 0.475069
0.57745 0.061215 0.158180 0.616280
5.54E-05 0.432583 0.408731
0.71830 0.061215 0.158180 0.616280
5.54E-05 0.174127 0.342393
0.85915 0.061215 0.158180 0.616280
5.54E-05 0.084330 0.276055
1.00000 0.061215 0.158180 0.616280
5.54E-05 0.342787 0.209717

COMB SETTLE -------------------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -0.061215 -0.212864 -0.616280
-5.54E-05 -0.691040 -0.613945
0.57745 -0.061215 -0.212864 -0.616280
-5.54E-05 -0.432583 -0.524674
0.71830 -0.061215 -0.212864 -0.616280
-5.54E-05 -0.174127 -0.435402
0.85915 -0.061215 -0.212864 -0.616280
-5.54E-05 -0.084330 -0.346130
1.00000 -0.061215 -0.212864 -0.616280
-5.54E-05 -0.342787 -0.256859

ELEM 191 ========== LENGTH = 2.976591

LOAD -A1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.009966 0.083613 -0.079593
6.22E-06 -0.044831 0.151921
0.14081 -0.009966 0.083613 -0.079593
6.22E-06 -0.011470 0.116875
0.28163 -0.009966 0.083613 -0.079593
6.22E-06 0.021892 0.081829
0.42244 -0.009966 0.083613 -0.079593
6.22E-06 0.055253 0.046782
0.56326 -0.009966 0.083613 -0.079593
6.22E-06 0.088614 0.011736

LOAD -P1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.013172 -0.003654 0.587519
-2.40E-05 0.330039 -0.072775
0.14081 0.013172 -0.003654 0.587519
-2.40E-05 0.083782 -0.071244
0.28163 0.013172 -0.003654 0.587519
-2.40E-05 -0.162476 -0.069712
0.42244 0.013172 -0.003654 0.587519
-2.40E-05 -0.408733 -0.068181
0.56326 0.013172 -0.003654 0.587519
-2.40E-05 -0.654990 -0.066649

LOAD -P2 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.037866 -0.209536 -0.537307
1.78E-05 -0.301573 -0.264448
0.14081 -0.037866 -0.209536 -0.537307
1.78E-05 -0.076362 -0.176621
0.28163 -0.037866 -0.209536 -0.537307
1.78E-05 0.148849 -0.088795

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42244 -0.037866 -0.209536 -0.537307
1.78E-05 0.374059 -0.000968
0.56326 -0.037866 -0.209536 -0.537307
1.78E-05 0.599270 0.086858

LOAD -P3 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.038314 0.157513 0.037258
-5.79E-07 0.020279 0.217897
0.14081 0.038314 0.157513 0.037258
-5.79E-07 0.004662 0.151875
0.28163 0.038314 0.157513 0.037258
-5.79E-07 -0.010954 0.085854
0.42244 0.038314 0.157513 0.037258
-5.79E-07 -0.026571 0.019833
0.56326 0.038314 0.157513 0.037258
-5.79E-07 -0.042188 -0.046188

LOAD -P4 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.004047 -0.014738 -0.013973
1.57E-06 -0.007781 -0.023324
0.14081 -0.004047 -0.014738 -0.013973
1.57E-06 -0.001924 -0.017147
0.28163 -0.004047 -0.014738 -0.013973
1.57E-06 0.003933 -0.010969
0.42244 -0.004047 -0.014738 -0.013973
1.57E-06 0.009789 -0.004792
0.56326 -0.004047 -0.014738 -0.013973
1.57E-06 0.015646 0.001385

LOAD -P5 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.000393 -0.013199 0.006095
-1.03E-06 0.003867 -0.009271
0.14081 0.000393 -0.013199 0.006095
-1.03E-06 0.001312 -0.003739
0.28163 0.000393 -0.013199 0.006095
-1.03E-06 -0.001243 0.001793
0.42244 0.000393 -0.013199 0.006095
-1.03E-06 -0.003798 0.007325
0.56326 0.000393 -0.013199 0.006095
-1.03E-06 -0.006353 0.012858

LOAD -2N+1- --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.051878 -0.140660 -0.630873
2.56E-05 -0.354185 -0.135850
0.14081 -0.051878 -0.140660 -0.630873
2.56E-05 -0.089756 -0.076893
0.28163 -0.051878 -0.140660 -0.630873
2.56E-05 0.174673 -0.017935
0.42244 -0.051878 -0.140660 -0.630873
2.56E-05 0.439102 0.041022
0.56326 -0.051878 -0.140660 -0.630873
2.56E-05 0.703531 0.099979

LOAD -2N+2- --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.051878 0.140660 0.630873
-2.56E-05 0.354185 0.135850
0.14081 0.051878 0.140660 0.630873
-2.56E-05 0.089756 0.076893
0.28163 0.051878 0.140660 0.630873
-2.56E-05 -0.174673 0.017935
0.42244 0.051878 0.140660 0.630873
-2.56E-05 -0.439102 -0.041022
0.56326 0.051878 0.140660 0.630873
-2.56E-05 -0.703531 -0.099979

COMB SETTLE -------------------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.051878 0.157513 0.630873
2.56E-05 0.354185 0.217897

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14081 0.051878 0.157513 0.630873
2.56E-05 0.089756 0.151875
0.28163 0.051878 0.157513 0.630873
2.56E-05 0.174673 0.085854
0.42244 0.051878 0.157513 0.630873
2.56E-05 0.439102 0.046782
0.56326 0.051878 0.157513 0.630873
2.56E-05 0.703531 0.099979

COMB SETTLE -------------------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.051878 -0.209536 -0.630873
-2.56E-05 -0.354185 -0.264448
0.14081 -0.051878 -0.209536 -0.630873
-2.56E-05 -0.089756 -0.176621
0.28163 -0.051878 -0.209536 -0.630873
-2.56E-05 -0.174673 -0.088795
0.42244 -0.051878 -0.209536 -0.630873
-2.56E-05 -0.439102 -0.068181
0.56326 -0.051878 -0.209536 -0.630873
-2.56E-05 -0.703531 -0.099979

ELEM 192 ========== LENGTH = 2.976770

LOAD -A1 --------------------

REL DIST P V2 V3
T M2 M3
0.43672 -0.025932 0.038571 -0.094724
-2.22E-06 -0.106951 0.151504
0.57754 -0.025932 0.038571 -0.094724
-2.22E-06 -0.067243 0.135336
0.71836 -0.025932 0.038571 -0.094724
-2.22E-06 -0.027535 0.119167
0.85918 -0.025932 0.038571 -0.094724
-2.22E-06 0.012172 0.102998
1.00000 -0.025932 0.038571 -0.094724
-2.22E-06 0.051880 0.086830

LOAD -P1 --------------------

REL DIST P V2 V3
T M2 M3
0.43672 0.055764 0.170852 0.576258
4.97E-05 0.644970 0.443763
0.57754 0.055764 0.170852 0.576258
4.97E-05 0.403407 0.372143
0.71836 0.055764 0.170852 0.576258
4.97E-05 0.161844 0.300523
0.85918 0.055764 0.170852 0.576258
4.97E-05 -0.079719 0.228903
1.00000 0.055764 0.170852 0.576258
4.97E-05 -0.321282 0.157283

LOAD -P2 --------------------

REL DIST P V2 V3
T M2 M3
0.43672 -0.080148 -0.418285 -0.456571
-4.85E-05 -0.510734 -1.245841
0.57754 -0.080148 -0.418285 -0.456571
-4.85E-05 -0.319343 -1.070499
0.71836 -0.080148 -0.418285 -0.456571
-4.85E-05 -0.127952 -0.895157
0.85918 -0.080148 -0.418285 -0.456571
-4.85E-05 0.063439 -0.719816
1.00000 -0.080148 -0.418285 -0.456571
-4.85E-05 0.254830 -0.544474

LOAD -P3 --------------------

REL DIST P V2 V3
T M2 M3
0.43672 0.056852 0.249708 -0.028745
1.43E-06 0.031983 0.774154
0.57754 0.056852 0.249708 -0.028745
1.43E-06 -0.019933 0.669478
0.71836 0.056852 0.249708 -0.028745
1.43E-06 -0.007884 0.564802
0.85918 0.056852 0.249708 -0.028745
1.43E-06 0.004166 0.460126
1.00000 0.056852 0.249708 -0.028745
1.43E-06 0.016215 0.355451

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 --------------------

REL DIST P V2 V3
T M2 M3
0.43672 -0.010262 -0.012052 0.004798
-3.16E-07 0.005203 -0.065326
0.57754 -0.010262 -0.012052 0.004798
-3.16E-07 0.003192 -0.060274
0.71836 -0.010262 -0.012052 0.004798
-3.16E-07 0.001181 -0.055222
0.85918 -0.010262 -0.012052 0.004798
-3.16E-07 -0.000830 -0.050170
1.00000 -0.010262 -0.012052 0.004798
-3.16E-07 -0.002842 -0.045118

LOAD -P5 --------------------

REL DIST P V2 V3
T M2 M3
0.43672 0.003725 -0.028795 -0.001017
-6.59E-08 0.000506 -0.028254
0.57754 0.003725 -0.028795 -0.001017
-6.59E-08 -7.99E-05 -0.046184
0.71836 0.003725 -0.028795 -0.001017
-6.59E-08 0.000346 -0.034113
0.85918 0.003725 -0.028795 -0.001017
-6.59E-08 0.000773 -0.022042
1.00000 0.003725 -0.028795 -0.001017
-6.59E-08 0.001199 -0.009971

LOAD -2N+1- --------------------

REL DIST P V2 V3
T M2 M3
0.43672 -0.116342 -0.391765 -0.546497
-5.10E-05 -0.612481 -1.159662
0.57754 -0.116342 -0.391765 -0.546497
-5.10E-05 -0.383394 -0.995437
0.71836 -0.116342 -0.391765 -0.546497
-5.10E-05 -0.154307 -0.831212
0.85918 -0.116342 -0.391765 -0.546497
-5.10E-05 0.074781 -0.666987
1.00000 -0.116342 -0.391765 -0.546497
-5.10E-05 0.303868 -0.502762

LOAD -2N+2- --------------------

REL DIST P V2 V3
T M2 M3
0.43672 0.116342 0.391765 0.546497
5.10E-05 0.612481 1.159662
0.57754 0.116342 0.391765 0.546497
5.10E-05 0.383394 0.995437
0.71836 0.116342 0.391765 0.546497
5.10E-05 0.154307 0.831212
0.85918 0.116342 0.391765 0.546497
5.10E-05 -0.074781 0.666987
1.00000 0.116342 0.391765 0.546497
5.10E-05 -0.303868 0.502762

COMB SETTLE -------------------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 0.116342 0.391765 0.576258
5.10E-05 0.644970 1.159662
0.57754 0.116342 0.391765 0.576258
5.10E-05 0.403407 0.995437
0.71836 0.116342 0.391765 0.576258
5.10E-05 0.161844 0.831212
0.85918 0.116342 0.391765 0.576258
5.10E-05 0.074781 0.666987
1.00000 0.116342 0.391765 0.576258
5.10E-05 0.303868 0.502762

COMB SETTLE -------------------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -0.116342 -0.418285 -0.546497
-5.10E-05 -0.612481 -1.245841
0.57754 -0.116342 -0.418285 -0.546497
-5.10E-05 -0.383394 -1.070499
0.71836 -0.116342 -0.418285 -0.546497
-5.10E-05 -0.154307 -0.895157
0.85918 -0.116342 -0.418285 -0.546497
-5.10E-05 -0.079719 -0.719816
1.00000 -0.116342 -0.418285 -0.546497
-5.10E-05 -0.321282 -0.544474

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 193 ========== LENGTH = 2.977779

LOAD -A1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.029663 0.040546 -0.101189
8.32E-06 -0.057300 0.089290
0.14086 -0.029663 0.040546 -0.101189
8.32E-06 -0.014857 0.072284
0.28172 -0.029663 0.040546 -0.101189
8.32E-06 0.027586 0.055277
0.42257 -0.029663 0.040546 -0.101189
8.32E-06 0.070029 0.038270
0.56343 -0.029663 0.040546 -0.101189
8.32E-06 0.112473 0.021263

LOAD -P1 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.049152 0.228117 0.587225
-2.33E-05 0.337527 0.159491
0.14086 0.049152 0.228117 0.587225
-2.33E-05 0.084018 0.063808
0.28172 0.049152 0.228117 0.587225
-2.33E-05 -0.162291 -0.031875
0.42257 0.049152 0.228117 0.587225
-2.33E-05 -0.408599 -0.127557
0.56343 0.049152 0.228117 0.587225
-2.33E-05 -0.654908 -0.223240

LOAD -P2 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.052085 -0.556907 -0.463507
7.60E-06 -0.260459 -0.557992
0.14086 -0.052085 -0.556907 -0.463507
7.60E-06 -0.066044 -0.324400
0.28172 -0.052085 -0.556907 -0.463507
7.60E-06 0.128372 -0.090808
0.42257 -0.052085 -0.556907 -0.463507
7.60E-06 0.322788 0.142783
0.56343 -0.052085 -0.556907 -0.463507
7.60E-06 0.517203 0.376375

LOAD -P3 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.034062 0.353017 -0.030217
9.03E-06 -0.017494 0.366971
0.14086 0.034062 0.353017 -0.030217
9.03E-06 -0.004820 0.218900
0.28172 0.034062 0.353017 -0.030217
9.03E-06 0.008255 0.070829
0.42257 0.034062 0.353017 -0.030217
9.03E-06 0.020529 -0.077242
0.56343 0.034062 0.353017 -0.030217
9.03E-06 0.033204 -0.225313

LOAD -P4 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.004004 -0.041412 0.004280
-1.43E-06 0.002411 -0.048406
0.14086 -0.004004 -0.041412 0.004280
-1.43E-06 0.000616 -0.031036
0.28172 -0.004004 -0.041412 0.004280
-1.43E-06 -0.001179 -0.013666
0.42257 -0.004004 -0.041412 0.004280
-1.43E-06 -0.002975 0.003704
0.56343 -0.004004 -0.041412 0.004280
-1.43E-06 -0.004770 0.021075

LOAD -P5 --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.002539 -0.023361 0.003408
-2.62E-07 0.002516 -0.009355
0.14086 0.002539 -0.023361 0.003408
-2.62E-07 0.001087 0.000444
0.28172 0.002539 -0.023361 0.003408
-2.62E-07 -0.000343 0.010243

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42257 0.002539 -0.023361 0.003408
-2.62E-07 -0.001772 0.020041
0.56343 0.002539 -0.023361 0.003408
-2.62E-07 -0.003202 0.029840

LOAD -2N+1- --------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.085752 -0.557773 -0.560416
1.45E-05 -0.315349 -0.517107
0.14086 -0.085752 -0.557773 -0.560416
1.45E-05 -0.080285 -0.283152
0.28172 -0.085752 -0.557773 -0.560416
1.45E-05 0.154779 -0.049197
0.42257 -0.085752 -0.557773 -0.560416
1.45E-05 0.389842 0.184758
0.56343 -0.085752 -0.557773 -0.560416
1.45E-05 0.624906 0.418713

LOAD -2N+2- --------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.085752 0.557773 0.560416
-1.45E-05 0.315349 0.517107
0.14086 0.085752 0.557773 0.560416
-1.45E-05 0.080285 0.283152
0.28172 0.085752 0.557773 0.560416
-1.45E-05 -0.154779 0.049197
0.42257 0.085752 0.557773 0.560416
-1.45E-05 -0.389842 -0.184758
0.56343 0.085752 0.557773 0.560416
-1.45E-05 -0.624906 -0.418713

COMB SETTLE -------------------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.085752 0.557773 0.587225
1.45E-05 0.330327 0.517107
0.14086 0.085752 0.557773 0.587225
1.45E-05 0.084018 0.283152
0.28172 0.085752 0.557773 0.587225
1.45E-05 -0.162279 0.049329
0.42257 0.085752 0.557773 0.587225
1.45E-05 0.389842 0.184758
0.56343 0.085752 0.557773 0.587225
1.45E-05 0.624906 0.418713

COMB SETTLE -------------------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.085752 -0.557773 -0.560416
-2.33E-05 -0.315349 -0.557992
0.14086 -0.085752 -0.557773 -0.560416
-2.33E-05 -0.080285 -0.324400
0.28172 -0.085752 -0.557773 -0.560416
-2.33E-05 -0.162291 -0.090808
0.42257 -0.085752 -0.557773 -0.560416
-2.33E-05 -0.408599 -0.184758
0.56343 -0.085752 -0.557773 -0.560416
-2.33E-05 -0.654908 -0.418713

ELEM 194 ========== LENGTH = 2.978081

LOAD -A1 --------------------

REL DIST P V2 V3
T M2 M3
0.43652 -0.032270 0.031301 -0.100115
-4.28E-06 -0.113305 0.084644
0.57739 -0.032270 0.031301 -0.100115
-4.28E-06 -0.071304 0.071513
0.71826 -0.032270 0.031301 -0.100115
-4.28E-06 -0.029304 0.058381
0.85913 -0.032270 0.031301 -0.100115
-4.28E-06 0.012697 0.045250
1.00000 -0.032270 0.031301 -0.100115
-4.28E-06 0.054697 0.032119

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 --------------------

REL DIST P V2 V3
T M2 M3
0.43652 -0.028084 0.455169 0.542120
5.11E-05 0.607490 1.068983
0.57739 -0.028084 0.455169 0.542120
5.11E-05 0.380060 0.878031
0.71826 -0.028084 0.455169 0.542120
5.11E-05 0.152629 0.687078
0.85913 -0.028084 0.455169 0.542120
5.11E-05 -0.074801 0.496126
1.00000 -0.028084 0.455169 0.542120
5.11E-05 -0.302231 0.305173

LOAD -P2 --------------------

REL DIST P V2 V3
T M2 M3
0.43652 0.093263 -0.972566 -0.356499
-4.68E-05 -0.399385 -2.302232
0.57739 0.093263 -0.972566 -0.356499
-4.68E-05 -0.249827 -1.894221
0.71826 0.093263 -0.972566 -0.356499
-4.68E-05 -0.100268 -1.486210
0.85913 0.093263 -0.972566 -0.356499
-4.68E-05 0.049290 -1.078199
1.00000 0.093263 -0.972566 -0.356499
-4.68E-05 0.198849 -0.670188

LOAD -P3 --------------------

REL DIST P V2 V3
T M2 M3
0.43652 -0.039666 0.592459 -0.105741
3.76E-07 -0.118079 1.376553
0.57739 -0.039666 0.592459 -0.105741
3.76E-07 -0.073719 1.128004
0.71826 -0.039666 0.592459 -0.105741
3.76E-07 -0.029358 0.879456
0.85913 -0.039666 0.592459 -0.105741
3.76E-07 0.015002 0.630907
1.00000 -0.039666 0.592459 -0.105741
3.76E-07 0.059363 0.382359

LOAD -P4 --------------------

REL DIST P V2 V3
T M2 M3
0.43652 0.000518 -0.062871 0.025594
-7.84E-07 0.028439 -0.140096
0.57739 0.000518 -0.062871 0.025594
-7.84E-07 0.017702 -0.113720
0.71826 0.000518 -0.062871 0.025594
-7.84E-07 0.006965 -0.087344
0.85913 0.000518 -0.062871 0.025594
-7.84E-07 -0.003772 -0.060969
1.00000 0.000518 -0.062871 0.025594
-7.84E-07 -0.014509 -0.034593

LOAD -P5 --------------------

```
REL DIST          P          V2          V3
        T         M2          M3
0.43652    0.006239   -0.043492   -0.005358
 3.85E-07   -0.002160   -0.087652
0.57739    0.006239   -0.043492   -0.005358
 3.85E-07   -0.002912   -0.069607
0.71826    0.006239   -0.043492   -0.005358
 3.85E-07   -0.000664   -0.051361
0.85913    0.006239   -0.043492   -0.005358
 3.85E-07    0.001583   -0.033116
1.00000    0.006239   -0.043492   -0.005358
 3.85E-07    0.003831   -0.014870

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43652    0.061511   -1.004136   -0.431020
-5.19E-05   -0.484250   -2.357684
0.57739    0.061511   -1.004136   -0.431020
-5.19E-05   -0.303428   -1.936429
0.71826    0.061511   -1.004136   -0.431020
-5.19E-05   -0.122607   -1.515173
0.85913    0.061511   -1.004136   -0.431020
-5.19E-05    0.058215   -1.093918
1.00000    0.061511   -1.004136   -0.431020
-5.19E-05    0.239037   -0.672662
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    408

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43652   -0.061511    1.004136    0.431020
 5.19E-05    0.484250    2.357684
0.57739   -0.061511    1.004136    0.431020
 5.19E-05    0.303428    1.936429
0.71826   -0.061511    1.004136    0.431020
 5.19E-05    0.122607    1.515173
0.85913   -0.061511    1.004136    0.431020
 5.19E-05    0.058215    1.093918
1.00000   -0.061511    1.004136    0.431020
 5.19E-05   -0.239037    0.672662

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43652    0.093263    1.004136    0.542120
 5.19E-05    0.607490    2.357684
0.57739    0.093263    1.004136    0.542120
 5.19E-05    0.380060    1.936429
0.71826    0.093263    1.004136    0.542120
 5.19E-05    0.152629    1.515173
0.85913    0.093263    1.004136    0.542120
 5.19E-05    0.058215    1.093918
1.00000    0.093263    1.004136    0.542120
 5.19E-05    0.239037    0.672662

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43652   -0.061511   -1.004136   -0.431020
-5.19E-05   -0.484250   -2.357684
0.57739   -0.061511   -1.004136   -0.431020
-5.19E-05   -0.303428   -1.936429
0.71826   -0.061511   -1.004136   -0.431020
-5.19E-05   -0.122607   -1.515173
0.85913   -0.061511   -1.004136   -0.431020
-5.19E-05   -0.074801   -1.093918
1.00000   -0.061511   -1.004136   -0.431020
-5.19E-05   -0.302231   -0.672662

ELEM       195 ================== LENGTH
=     2.977144

LOAD      -A1 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.031737    0.011676   -0.109553
 1.16E-05   -0.062446    0.032537
0.14083   -0.031737    0.011676   -0.109553
 1.16E-05   -0.027512    0.027642
0.28167   -0.031737    0.011676   -0.109553
 1.16E-05    0.029422    0.022746
0.42250   -0.031737    0.011676   -0.109553
 1.16E-05    0.075356    0.017851
0.56334   -0.031737    0.011676   -0.109553
 1.16E-05    0.121290    0.012955

LOAD      -P1 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.037662    0.447874    0.558143
-2.64E-05   -0.310583    0.310664
0.14083   -0.037662    0.447874    0.558143
-2.64E-05    0.080562    0.122876
0.28167   -0.037662    0.447874    0.558143
-2.64E-05   -0.153460   -0.064911
0.42250   -0.037662    0.447874    0.558143
-2.64E-05   -0.387481   -0.252699
0.56334   -0.037662    0.447874    0.558143
-2.64E-05   -0.621503   -0.440486

LOAD      -P2 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.113511   -0.888391   -0.366519
 1.39E-06   -0.206231   -0.684303
0.14083    0.113511   -0.888391   -0.366519
 1.39E-06   -0.052554   -0.311813
0.28167    0.113511   -0.888391   -0.366519
 1.39E-06    0.101122    0.060677
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    409

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.42250    0.113511   -0.888391   -0.366519
 1.39E-06    0.254798    0.433167
0.56334    0.113511   -0.888391   -0.366519
 1.39E-06    0.408474    0.805657

LOAD      -P3 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.053899    0.517851   -0.107736
 1.72E-05   -0.061135    0.393043
0.14083   -0.053899    0.517851   -0.107736
 1.72E-05   -0.015963    0.175916
0.28167   -0.053899    0.517851   -0.107736
 1.72E-05    0.029209   -0.041212
0.42250   -0.053899    0.517851   -0.107736
 1.72E-05    0.074382   -0.258340
0.56334   -0.053899    0.517851   -0.107736
 1.72E-05    0.119554   -0.475468

LOAD      -P4 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.004269   -0.041488    0.025221
-4.43E-06    0.014185   -0.037647
0.14083    0.004269   -0.041488    0.025221
-4.43E-06    0.003610   -0.020252
0.28167    0.004269   -0.041488    0.025221
-4.43E-06   -0.006965   -0.002856
0.42250    0.004269   -0.041488    0.025221
-4.43E-06   -0.017540    0.014539
0.56334    0.004269   -0.041488    0.025221
-4.43E-06   -0.028114    0.031934

LOAD      -P5 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.005518   -0.047523    0.000444
 7.22E-07    0.001044   -0.014295
0.14083    0.005518   -0.047523    0.000444
 7.22E-07    0.000858    0.005631
0.28167    0.005518   -0.047523    0.000444
 7.22E-07    0.000671    0.025557
0.42250    0.005518   -0.047523    0.000444
 7.22E-07    0.000485    0.045482
0.56334    0.005518   -0.047523    0.000444
 7.22E-07    0.000299    0.065408

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.086043   -0.918203   -0.450851
 8.52E-06   -0.254492   -0.689412
0.14083    0.086043   -0.918203   -0.450851
 8.52E-06   -0.065456   -0.304423
0.28167    0.086043   -0.918203   -0.450851
 8.52E-06    0.123579    0.080567
0.42250    0.086043   -0.918203   -0.450851
 8.52E-06    0.312615    0.465556
0.56334    0.086043   -0.918203   -0.450851
 8.52E-06    0.501650    0.850546

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.086043    0.918203    0.450851
-8.52E-06    0.254492    0.689412
0.14083   -0.086043    0.918203    0.450851
-8.52E-06    0.065456    0.304423
0.28167   -0.086043    0.918203    0.450851
-8.52E-06   -0.123579   -0.080567
0.42250   -0.086043    0.918203    0.450851
-8.52E-06   -0.312615   -0.465556
0.56334   -0.086043    0.918203    0.450851
-8.52E-06   -0.501650   -0.850546

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.113511    0.918203    0.558143
1.72E-05    0.314583    0.689412
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    410

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.14083    0.113511    0.918203    0.558143
1.72E-05    0.080562    0.304423
0.28167    0.113511    0.918203    0.558143
1.72E-05    0.123579    0.080567
0.42250    0.113511    0.918203    0.558143
1.72E-05    0.312615    0.465556
0.56334    0.113511    0.918203    0.558143
1.72E-05    0.501650    0.850546

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.086043   -0.918203   -0.450851
-2.64E-05   -0.254492   -0.689412
0.14083   -0.086043   -0.918203   -0.450851
-2.64E-05   -0.065456   -0.311813
0.28167   -0.086043   -0.918203   -0.450851
-2.64E-05    0.123460   -0.080567
0.42250   -0.086043   -0.918203   -0.450851
-2.64E-05   -0.387481   -0.465556
0.56334   -0.086043   -0.918203   -0.450851
-2.64E-05   -0.621503   -0.850546

ELEM       196 ================== LENGTH
=     2.977474

LOAD      -A1 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43661   -0.015483    0.010896   -0.094019
-3.01E-06   -0.106918    0.018429
0.57746   -0.015483    0.010836   -0.094019
-3.01E-06   -0.067490    0.013885
0.71831   -0.015483    0.010836   -0.094019
-3.01E-06   -0.028061    0.009340
0.85915   -0.015483    0.010836   -0.094019
-3.01E-06    0.011367    0.004796
1.00000   -0.015483    0.010836   -0.094019
-3.01E-06    0.050795    0.000252

LOAD      -P1 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43661   -0.289532    0.747766    0.481745
 4.31E-05    0.541043    1.721355
0.57746   -0.289532    0.747766    0.481745
 4.31E-05    0.339015    1.407765
0.71831   -0.289532    0.747766    0.481745
 4.31E-05    0.136986    1.094175
0.85915   -0.289532    0.747766    0.481745
 4.31E-05   -0.065043    0.780586
1.00000   -0.289532    0.747766    0.481745
 4.31E-05   -0.267071    0.466996

LOAD      -P2 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43661    0.577936   -1.487731   -0.235532
-3.56E-05   -0.264735   -3.415778
0.57746    0.577936   -1.487731   -0.235532
-3.56E-05   -0.165961   -2.791870
0.71831    0.577936   -1.487731   -0.235532
-3.56E-05   -0.067186   -2.167963
0.85915    0.577936   -1.487731   -0.235532
-3.56E-05    0.031589   -1.544055
1.00000    0.577936   -1.487731   -0.235532
-3.56E-05    0.130363   -0.920147

LOAD      -P3 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43661   -0.308088    0.878390   -0.190166
-4.78E-06   -0.212837    1.994975
0.57746   -0.308088    0.878390   -0.190166
-4.78E-06   -0.133088    1.626606
0.71831   -0.308088    0.878390   -0.190166
-4.78E-06   -0.053338    1.258237
0.85915   -0.308088    0.878390   -0.190166
-4.78E-06    0.026412    0.889868
1.00000   -0.308088    0.878390   -0.190166
-4.78E-06    0.106162    0.521499
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    411

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43661    0.027855   -0.077632    0.048276
-6.93E-07    0.053879   -0.189893
0.57746    0.027855   -0.077632    0.048276
-6.93E-07    0.033634   -0.157337
0.71831    0.027855   -0.077632    0.048276
-6.93E-07    0.013388   -0.124780
0.85915    0.027855   -0.077632    0.048276
-6.93E-07   -0.006857   -0.092223
1.00000    0.027855   -0.077632    0.048276
-6.93E-07   -0.027103   -0.059667

LOAD      -P5 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43661    0.007312   -0.071628   -0.010304
 1.07E-06   -0.010431   -0.129087
0.57746    0.007312   -0.071628   -0.010304
 1.07E-06   -0.000110   -0.089049
0.71831    0.007312   -0.071628   -0.010304
 1.07E-06   -0.001789   -0.069010
0.85915    0.007312   -0.071628   -0.010304
 1.07E-06    0.002533   -0.038971
1.00000    0.007312   -0.071628   -0.010304
 1.07E-06    0.006854   -0.008933

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43661    0.590308   -1.554528   -0.281274
-3.93E-05   -0.317774   -3.587243
0.57746    0.590308   -1.554528   -0.281274
-3.93E-05   -0.199817   -2.935322
0.71831    0.590308   -1.554528   -0.281274
-3.93E-05   -0.081859   -2.283402
0.85915    0.590308   -1.554528   -0.281274
-3.93E-05    0.036098   -1.631482
1.00000    0.590308   -1.554528   -0.281274
-3.93E-05    0.154056   -0.979562

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43661   -0.590308    1.554528    0.281274
 3.93E-05    0.317774    3.587243
0.57746   -0.590308    1.554528    0.281274
 3.93E-05    0.199817    2.935322
0.71831   -0.590308    1.554528    0.281274
 3.93E-05    0.081859    2.283402
0.85915   -0.590308    1.554528    0.281274
 3.93E-05   -0.036098    1.631482
1.00000   -0.590308    1.554528    0.281274
 3.93E-05   -0.154056    0.979562

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43661    0.590308    1.554528    0.481745
4.31E-05    0.541043    3.587243
0.57746    0.590308    1.554528    0.481745
4.31E-05    0.339015    2.935322
0.71831    0.590308    1.554528    0.481745
4.31E-05    0.136986    2.283402
0.85915    0.590308    1.554528    0.481745
4.31E-05    0.036098    1.631482
1.00000    0.590308    1.554528    0.481745
4.31E-05    0.154056    0.979562

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43661   -0.590308   -1.554528   -0.281274
-3.93E-05   -0.317774   -3.587243
0.57746   -0.590308   -1.554528   -0.281274
-3.93E-05   -0.199817   -2.935322
0.71831   -0.590308   -1.554528   -0.281274
-3.93E-05   -0.081859   -2.283402
0.85915   -0.590308   -1.554528   -0.281274
-3.93E-05   -0.065043   -1.631482
1.00000   -0.590308   -1.554528   -0.281274
-3.93E-05   -0.267071   -0.979562
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    412

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       197 ================== LENGTH
=     2.977534

LOAD      -A1 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.012358   -0.000930   -0.105627
 9.29E-06   -0.060393   -0.000758
0.14085   -0.012358   -0.000930   -0.105627
 9.29E-06   -0.016095   -0.000368
0.28170   -0.012358   -0.000930   -0.105627
 9.29E-06    0.028203    2.22E-05
0.42255   -0.012358   -0.000930   -0.105627
 9.29E-06    0.072502    0.000412
0.56340   -0.012358   -0.000930   -0.105627
 9.29E-06    0.116800    0.000802

LOAD      -P1 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.312542    0.817404    0.499504
-2.14E-05    0.280949    0.476468
0.14085   -0.312542    0.817404    0.499504
-2.14E-05    0.071465    0.135662
0.28170   -0.312542    0.817404    0.499504
-2.14E-05   -0.138018   -0.209144
0.42255   -0.312542    0.817404    0.499504
-2.14E-05   -0.347502   -0.551950
0.56340   -0.312542    0.817404    0.499504
-2.14E-05   -0.556986   -0.894756

LOAD      -P2 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.616058   -1.606827   -0.247942
-6.55E-06    0.139497   -0.938567
0.14085    0.616058   -1.606827   -0.247942
-6.55E-06   -0.035514   -0.264690
0.28170    0.616058   -1.606827   -0.247942
-6.55E-06    0.068469    0.409187
0.42255    0.616058   -1.606827   -0.247942
-6.55E-06    0.172451    1.083063
0.56340    0.616058   -1.606827   -0.247942
-6.55E-06    0.276434    1.756940

LOAD      -P3 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.331411    0.957846   -0.191119
 2.43E-05   -0.107380    0.534467
0.14085   -0.331411    0.957846   -0.191119
 2.43E-05   -0.027227    0.132762
0.28170   -0.331411    0.957846   -0.191119
 2.43E-05    0.052925   -0.268943
0.42255   -0.331411    0.957846   -0.191119
 2.43E-05    0.133077   -0.670648
0.56340   -0.331411    0.957846   -0.191119
 2.43E-05    0.213229   -1.072353

LOAD      -P4 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.034170   -0.099643    0.047743
-7.76E-06    0.026676   -0.063380
0.14085    0.034170   -0.099643    0.047743
-7.76E-06    0.006653   -0.021592
0.28170    0.034170   -0.099643    0.047743
-7.76E-06   -0.013370    0.020197
0.42255    0.034170   -0.099643    0.047743
-7.76E-06   -0.033392    0.061986
0.56340    0.034170   -0.099643    0.047743
-7.76E-06   -0.053415    0.103775

LOAD      -P5 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.006082   -0.067851   -0.002559
 2.11E-06   -0.000355   -0.008230
0.14085    0.006082   -0.067851   -0.002559
 2.11E-06    0.000718    0.020225
0.28170    0.006082   -0.067851   -0.002559
 2.11E-06    0.001791    0.048681
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    413

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.42255    0.006082   -0.067851   -0.002559
 2.11E-06    0.002864    0.077136
0.56340    0.006082   -0.067851   -0.002559
 2.11E-06    0.003937    0.105592

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.637870   -1.707400   -0.305826
-5.02E-06   -0.173214   -1.002705
0.14085    0.637870   -1.707400   -0.305826
-5.02E-06   -0.044956   -0.286649
0.28170    0.637870   -1.707400   -0.305826
-5.02E-06    0.083302    0.429406
0.42255    0.637870   -1.707400   -0.305826
-5.02E-06    0.211561    1.145462
0.56340    0.637870   -1.707400   -0.305826
-5.02E-06    0.339819    1.861517

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.637870    1.707400    0.305826
 5.02E-06    0.173214    1.002705
0.14085   -0.637870    1.707400    0.305826
 5.02E-06    0.044956    0.286649
0.28170   -0.637870    1.707400    0.305826
 5.02E-06   -0.083302   -0.429406
0.42255   -0.637870    1.707400    0.305826
 5.02E-06   -0.211561   -1.145462
0.56340   -0.637870    1.707400    0.305826
 5.02E-06   -0.339819   -1.861517

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.637870    1.707400    0.499504
2.43E-05    0.280949    1.002705
0.14085    0.637870    1.707400    0.499504
2.43E-05    0.071465    0.286649
0.28170    0.637870    1.707400    0.499504
2.43E-05    0.083302    0.429406
0.42255    0.637870    1.707400    0.499504
2.43E-05    0.211561    1.145462
0.56340    0.637870    1.707400    0.499504
2.43E-05    0.339819    1.861517

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.637870   -1.707400   -0.305826
-2.14E-05   -0.173214   -1.002705
0.14085   -0.637870   -1.707400   -0.305826
-2.14E-05   -0.044956   -0.286649
0.28170   -0.637870   -1.707400   -0.305826
-2.14E-05   -0.138018   -0.429406
0.42255   -0.637870   -1.707400   -0.305826
-2.14E-05   -0.347502   -1.145462
0.56340   -0.637870   -1.707400   -0.305826
-2.14E-05   -0.556986   -1.861517

ELEM       198 ================== LENGTH
=     2.976943

LOAD      -A1 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669    0.040548   -0.037120   -0.085213
-3.94E-06   -0.093856   -0.091058
0.57752    0.040548   -0.037120   -0.085213
-3.94E-06   -0.058131   -0.075496
0.71834    0.040548   -0.037120   -0.085213
-3.94E-06   -0.022407   -0.059934
0.85917    0.040548   -0.037120   -0.085213
-3.94E-06    0.013317   -0.044372
1.00000    0.040548   -0.037120   -0.085213
-3.94E-06    0.049042   -0.028810
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                    414

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669   -0.776730    1.043046    0.432031
 3.55E-05    0.468793    2.238892
0.57752   -0.776730    1.043046    0.432031
 3.55E-05    0.287670    1.801610
0.71834   -0.776730    1.043046    0.432031
 3.55E-05    0.106547    1.364328
0.85917   -0.776730    1.043046    0.432031
 3.55E-05   -0.074576    0.927046
1.00000   -0.776730    1.043046    0.432031
 3.55E-05   -0.255699    0.489764

LOAD      -P2 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669    1.378361   -2.008912   -0.107210
-2.18E-05   -0.116216   -4.269314
0.57752    1.378361   -2.008912   -0.107210
-2.18E-05   -0.071269   -3.427106
0.71834    1.378361   -2.008912   -0.107210
-2.18E-05   -0.026323   -2.584898
0.85917    1.378361   -2.008912   -0.107210
-2.18E-05    0.018623   -1.742691
1.00000    1.378361   -2.008912   -0.107210
-2.18E-05    0.063570   -0.900483

LOAD      -P3 ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43669   -0.707602    1.182716   -0.300821
-1.11E-05   -0.326221    2.474657
0.57752   -0.707602    1.182716   -0.300821
-1.11E-05   -0.200106    1.978820
0.71834   -0.707602    1.182716   -0.300821
-1.11E-05   -0.073992    1.482983
0.85917   -0.707602    1.182716   -0.300821
-1.11E-05    0.052123    0.987146
1.00000   -0.707602    1.182716   -0.300821
-1.11E-05    0.178238    0.491310

LOAD      -P4 ------------------

REL DIST          P          V2          V3
        T         M2          M3
```

```
0.43669     0.066071    -0.108682     0.078011
-8.13E-07    0.084413    -0.233896
0.57752     0.066071    -0.108682     0.078011
-8.13E-07    0.051708    -0.188333
0.71834     0.066071    -0.108682     0.078011
-8.13E-07    0.019004    -0.142770
0.85917     0.066071    -0.108682     0.078011
-8.13E-07   -0.013701    -0.097206
1.00000     0.066071    -0.108682     0.078011
-8.13E-07   -0.046406    -0.051643

LOAD      -P5 -------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43669    -0.000648    -0.071048    -0.016798
 2.12E-06   -0.016914    -0.119280
0.57752    -0.000648    -0.071048    -0.016798
 2.12E-06   -0.009871    -0.089494
0.71834    -0.000648    -0.071048    -0.016798
 2.12E-06   -0.002829    -0.059709
0.85917    -0.000648    -0.071048    -0.016798
 2.12E-06    0.004213    -0.029923
1.00000    -0.000648    -0.071048    -0.016798
 2.12E-06    0.011255    -0.000137

LOAD  -2N+1- ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43669     1.484980    -2.154714    -0.114413
-2.66E-05   -0.125658    -4.594268
0.57752     1.484980    -2.154714    -0.114413
-2.66E-05   -0.077692    -3.690935
0.71834     1.484980    -2.154714    -0.114413
-2.66E-05   -0.029727    -2.787602
0.85917     1.484980    -2.154714    -0.114413
-2.66E-05    0.018239    -1.884269
1.00000     1.484980    -2.154714    -0.114413
-2.66E-05    0.066205    -0.980936
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                                Page
<            UNEQUAL          SETTLEMENT          >
                                 415

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43669    -1.484980     2.154714     0.114413
 2.66E-05    0.125658     4.594268
0.57752    -1.484980     2.154714     0.114413
 2.66E-05    0.077692     3.690935
0.71834    -1.484980     2.154714     0.114413
 2.66E-05    0.029727     2.787602
0.85917    -1.484980     2.154714     0.114413
 2.66E-05   -0.018239     1.884269
1.00000    -1.484980     2.154714     0.114413
 2.66E-05   -0.066205     0.980936

COMB  SETTLE ------------------- MAX

REL DIST          P              V2             V3
      T           M2             M3
0.43669     1.484980     2.154714     0.432031
3.55E-05    0.468793     4.594268
0.57752     1.484980     2.154714     0.432031
3.55E-05    0.287670     3.690935
0.71834     1.484980     2.154714     0.432031
3.55E-05    0.106547     2.787602
0.85917     1.484980     2.154714     0.432031
3.55E-05    0.052123     1.884269
1.00000     1.484980     2.154714     0.432031
3.55E-05    0.178238     0.980936

COMB  SETTLE ------------------- MIN

REL DIST          P              V2             V3
      T           M2             M3
0.43669    -1.484980    -2.154714    -0.300821
-2.66E-05   -0.326221    -4.594268
0.57752    -1.484980    -2.154714    -0.300821
-2.66E-05   -0.200106    -3.690935
0.71834    -1.484980    -2.154714    -0.300821
-2.66E-05   -0.073992    -2.787602
0.85917    -1.484980    -2.154714    -0.300821
-2.66E-05    0.074576    -1.884269
1.00000    -1.484980    -2.154714    -0.300821
-2.66E-05    0.255699    -0.980936

ELEM      199 ================== LENGTH
=     2.977036

LOAD      -A1 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000     0.028912    -0.056235    -0.099287
 7.34E-06   -0.060685    -0.030655
0.14083     0.028912    -0.056235    -0.099287
 7.34E-06   -0.019058    -0.007078
0.28166     0.028912    -0.056235    -0.099287
 7.34E-06    0.022569     0.016499
0.42249     0.028912    -0.056235    -0.099287
 7.34E-06    0.064197     0.040076
0.56332     0.028912    -0.056235    -0.099287
 7.34E-06    0.105824     0.063653

LOAD      -P1 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -0.720522     1.083467     0.450352
-2.24E-05    0.270052     0.499583
0.14083    -0.720522     1.083467     0.450352
-2.24E-05    0.081238     0.045330
0.28166    -0.720522     1.083467     0.450352
-2.24E-05   -0.107576    -0.408923
0.42249    -0.720522     1.083467     0.450352
-2.24E-05   -0.296390    -0.863176
0.56332    -0.720522     1.083467     0.450352
-2.24E-05   -0.485204    -1.317430

LOAD      -P2 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000     1.396679    -2.043716    -0.119058
-1.63E-06   -0.072239    -0.916890
0.14083     1.396679    -2.043716    -0.119058
-1.63E-06   -0.022322    -0.060043
0.28166     1.396679    -2.043716    -0.119058
-1.63E-06    0.027594     0.796803
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                                Page
<            UNEQUAL          SETTLEMENT          >
                                 416

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2             V3
      T           M2             M3
0.42249     1.396679    -2.043716    -0.119058
-1.63E-06    0.077510     1.653649
0.56332     1.396679    -2.043716    -0.119058
-1.63E-06    0.127426     2.510495

LOAD      -P3 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -0.788015     1.200469    -0.303174
 2.27E-05   -0.180620     0.502300
0.14083    -0.788015     1.200469    -0.303174
 2.27E-05   -0.053511    -0.001007
0.28166    -0.788015     1.200469    -0.303174
 2.27E-05    0.073597    -0.504314
0.42249    -0.788015     1.200469    -0.303174
 2.27E-05    0.200706    -1.007622
0.56332    -0.788015     1.200469    -0.303174
 2.27E-05    0.327814    -1.510929

LOAD      -P4 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000     0.087195    -0.116241     0.077478
-1.01E-05    0.045970    -0.054810
0.14083     0.087195    -0.116241     0.077478
-1.01E-05    0.013487    -0.006075
0.28166     0.087195    -0.116241     0.077478
-1.01E-05   -0.018996     0.042660
0.42249     0.087195    -0.116241     0.077478
-1.01E-05   -0.051479     0.091395
0.56332     0.087195    -0.116241     0.077478
-1.01E-05   -0.083963     0.140130

LOAD      -P5 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -0.004248    -0.067744    -0.006310
 4.11E-06   -0.002480     0.000471
0.14083    -0.004248    -0.067744    -0.006310
 4.11E-06    0.000166     0.028873
0.28166    -0.004248    -0.067744    -0.006310
 4.11E-06    0.002811     0.057276
0.42249    -0.004248    -0.067744    -0.006310
 4.11E-06    0.005457     0.085678
0.56332    -0.004248    -0.067744    -0.006310
 4.11E-06    0.008102     0.114080

LOAD  -2N+1- ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000     1.512785    -2.216192    -0.140868
-4.38E-06   -0.086953    -1.002355
0.14083     1.512785    -2.216192    -0.140868
-4.38E-06   -0.027893    -0.073196
0.28166     1.512785    -2.216192    -0.140868
-4.38E-06    0.031167     0.855962
0.42249     1.512785    -2.216192    -0.140868
-4.38E-06    0.090227     1.785120
0.56332     1.512785    -2.216192    -0.140868
-4.38E-06    0.149287     2.714278

LOAD  -2N+2- ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -1.512785     2.216192     0.140868
 4.38E-06    0.086953    -1.002355
0.14083    -1.512785     2.216192     0.140868
 4.38E-06    0.027893     0.073196
0.28166    -1.512785     2.216192     0.140868
 4.38E-06   -0.031167    -0.855962
0.42249    -1.512785     2.216192     0.140868
 4.38E-06   -0.090227    -1.785120
0.56332    -1.512785     2.216192     0.140868
 4.38E-06   -0.149287    -2.714278

COMB  SETTLE ------------------- MAX

REL DIST          P              V2             V3
      T           M2             M3
0.00000     1.512785     2.216192     0.450352
2.27E-05    0.270052     1.002355
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                                Page
<            UNEQUAL          SETTLEMENT          >
                                 417

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2             V3
      T           M2             M3
0.14083     1.512785     2.216192     0.450352
2.27E-05    0.081238     0.073196
0.28166     1.512785     2.216192     0.450352
2.27E-05    0.073597     0.855962
0.42249     1.512785     2.216192     0.450352
2.27E-05    0.200706     1.785120
0.56332     1.512785     2.216192     0.450352
2.27E-05    0.327814     2.714278

COMB  SETTLE ------------------- MIN

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -1.512785    -2.216192    -0.303174
-2.24E-05   -0.180620    -1.002355
0.14083    -1.512785    -2.216192    -0.303174
-2.24E-05   -0.053511    -0.073196
0.28166    -1.512785    -2.216192    -0.303174
-2.24E-05   -0.107576    -0.855962
0.42249    -1.512785    -2.216192    -0.303174
-2.24E-05   -0.296390    -1.785120
0.56332    -1.512785    -2.216192    -0.303174
-2.24E-05   -0.485204    -2.714278

ELEM      200 ================== LENGTH
=     2.977628

LOAD      -A1 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43659     0.066514    -0.127435    -0.075083
-4.41E-06    0.080369    -0.253318
0.57744     0.066514    -0.127435    -0.075083
-4.41E-06   -0.048879    -0.199871
0.71829     0.066514    -0.127435    -0.075083
-4.41E-06   -0.017389    -0.146424
0.85915     0.066514    -0.127435    -0.075083
-4.41E-06    0.014101    -0.092977
1.00000     0.066514    -0.127435    -0.075083
-4.41E-06    0.045591    -0.039530

LOAD      -P1 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43659    -0.924270     1.247465     0.391955
 2.31E-05    0.412646     2.509643
0.57744    -0.924270     1.247465     0.391955
 2.31E-05    0.248258     1.986447
0.71829    -0.924270     1.247465     0.391955
 2.31E-05    0.083869     1.463252
0.85915    -0.924270     1.247465     0.391955
 2.31E-05   -0.080519     0.940056
1.00000    -0.924270     1.247465     0.391955
 2.31E-05   -0.244908     0.416860

LOAD      -P2 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43659     1.701966    -2.256431    -0.006461
-3.47E-07   -0.006864    -4.533487
0.57744     1.701966    -2.256431    -0.006461
-3.47E-07   -0.004154    -3.587124
0.71829     1.701966    -2.256431    -0.006461
-3.47E-07   -0.001444    -2.640761
0.85915     1.701966    -2.256431    -0.006461
-3.47E-07    0.001266    -1.694398
1.00000     1.701966    -2.256431    -0.006461
-3.47E-07    0.003976    -0.748035

LOAD      -P3 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43659    -0.919342     1.266984    -0.390698
-2.16E-05   -0.411002     2.539720
0.57744    -0.919342     1.266984    -0.390698
-2.16E-05   -0.247140     2.008338
0.71829    -0.919342     1.266984    -0.390698
-2.16E-05   -0.083279     1.476956
0.85915    -0.919342     1.266984    -0.390698
-2.16E-05    0.080583     0.945574
1.00000    -0.919342     1.266984    -0.390698
-2.16E-05    0.244444     0.414193
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                                Page
<            UNEQUAL          SETTLEMENT          >
                                 418

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43659     0.095588    -0.142660     0.102502
-5.24E-07    0.107617    -0.294008
0.57744     0.095588    -0.142660     0.102502
-5.24E-07    0.064627    -0.234175
0.71829     0.095588    -0.142660     0.102502
-5.24E-07    0.021637    -0.174343
0.85915     0.095588    -0.142660     0.102502
-5.24E-07   -0.021353    -0.114510
1.00000     0.095588    -0.142660     0.102502
-5.24E-07   -0.064344    -0.054677

LOAD      -P5 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43659    -0.020455     0.012077    -0.022215
 3.80E-06   -0.022028     0.031450
0.57744    -0.020455     0.012077    -0.022215
 3.80E-06   -0.012711     0.026385
0.71829    -0.020455     0.012077    -0.022215
 3.80E-06   -0.003394     0.021320
0.85915    -0.020455     0.012077    -0.022215
 3.80E-06    0.005924     0.016254
1.00000    -0.020455     0.012077    -0.022215
 3.80E-06    0.015241     0.011189

LOAD  -2N+1- ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43659     1.864067    -2.526526     0.020958
-5.28E-06    0.020383    -5.080813
0.57744     1.864067    -2.526526     0.020958
-5.28E-06    0.011593    -4.021170
0.71829     1.864067    -2.526526     0.020958
-5.28E-06    0.002803    -2.961527
0.85915     1.864067    -2.526526     0.020958
-5.28E-06   -0.005987    -1.901885
1.00000     1.864067    -2.526526     0.020958
-5.28E-06   -0.014777    -0.842242

LOAD  -2N+2- ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43659    -1.864067     2.526526    -0.020958
 5.28E-06   -0.020383     5.080813
0.57744    -1.864067     2.526526    -0.020958
 5.28E-06   -0.011593     4.021170
0.71829    -1.864067     2.526526    -0.020958
 5.28E-06   -0.002803     2.961527
0.85915    -1.864067     2.526526    -0.020958
 5.28E-06    0.005987     1.901885
1.00000    -1.864067     2.526526    -0.020958
 5.28E-06    0.014777     0.842242

COMB  SETTLE ------------------- MAX

REL DIST          P              V2             V3
      T           M2             M3
0.43659     1.864067     2.526526     0.391955
2.31E-05    0.412646     5.080813
0.57744     1.864067     2.526526     0.391955
2.31E-05    0.248258     4.021170
0.71829     1.864067     2.526526     0.391955
2.31E-05    0.083869     2.961527
0.85915     1.864067     2.526526     0.391955
2.31E-05   -0.080519     1.901885
1.00000     1.864067     2.526526     0.391955
2.31E-05    0.244444     0.842242

COMB  SETTLE ------------------- MIN

REL DIST          P              V2             V3
      T           M2             M3
0.43659    -1.864067    -2.526526    -0.390698
-2.16E-05   -0.411002    -5.080813
0.57744    -1.864067    -2.526526    -0.390698
-2.16E-05   -0.247140    -4.021170
0.71829    -1.864067    -2.526526    -0.390698
-2.16E-05   -0.083279    -2.961527
0.85915    -1.864067    -2.526526    -0.390698
-2.16E-05   -0.080519    -1.901885
1.00000    -1.864067    -2.526526    -0.390698
-2.16E-05   -0.244908    -0.842242
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                                Page
<            UNEQUAL          SETTLEMENT          >
                                 419

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      201 ================== LENGTH
=     2.977688

LOAD      -A1 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000     0.073511    -0.150277    -0.090711
 4.80E-06   -0.058578    -0.041330
0.14085     0.073511    -0.150277    -0.090711
 4.80E-06   -0.020532     0.021700
0.28171     0.073511    -0.150277    -0.090711
 4.80E-06    0.017514     0.084729
0.42256     0.073511    -0.150277    -0.090711
 4.80E-06    0.055560     0.147759
0.56342     0.073511    -0.150277    -0.090711
 4.80E-06    0.093606     0.210789

LOAD      -P1 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -0.952536     1.266062     0.404833
-1.96E-05    0.255381     0.425204
0.14085    -0.952536     1.266062     0.404833
-1.96E-05    0.085585    -0.105810
0.28171    -0.952536     1.266062     0.404833
-1.96E-05   -0.084211    -0.636824
0.42256    -0.952536     1.266062     0.404833
-1.96E-05   -0.254007    -1.167838
0.56342    -0.952536     1.266062     0.404833
-1.96E-05   -0.423803    -1.698853

LOAD      -P2 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000     1.744646    -2.246275    -0.007316
 1.58E-07   -0.004683    -0.761120
0.14085     1.744646    -2.246275    -0.007316
 1.58E-07   -0.001615     0.181017
0.28171     1.744646    -2.246275    -0.007316
 1.58E-07    0.001453     1.123155
0.42256     1.744646    -2.246275    -0.007316
 1.58E-07    0.004522     2.065292
0.56342     1.744646    -2.246275    -0.007316
 1.58E-07    0.007590     3.007429

LOAD      -P3 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -0.948210     1.284299    -0.400178
 2.10E-05   -0.452087     0.422721
0.14085    -0.948210     1.284299    -0.400178
 2.10E-05   -0.084244    -0.115942
0.28171    -0.948210     1.284299    -0.400178
 2.10E-05    0.083600    -0.654605
0.42256    -0.948210     1.284299    -0.400178
 2.10E-05    0.251443    -1.193268
0.56342    -0.948210     1.284299    -0.400178
 2.10E-05    0.419286    -1.731931

LOAD      -P4 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000     0.104442    -0.170915     0.102481
-1.16E-05    0.064258    -0.057118
0.14085     0.104442    -0.170915     0.102481
-1.16E-05    0.021275     0.014567
0.28171     0.104442    -0.170915     0.102481
-1.16E-05   -0.021708     0.086253
0.42256     0.104442    -0.170915     0.102481
-1.16E-05   -0.064691     0.157938
0.56342     0.104442    -0.170915     0.102481
-1.16E-05   -0.107673     0.229624

LOAD      -P5 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -0.021854     0.017107    -0.009111
 5.27E-06   -0.004291     0.011642
0.14085    -0.021854     0.017107    -0.009111
 5.27E-06   -0.000470     0.004467
0.28171    -0.021854     0.017107    -0.009111
 5.27E-06    0.003351    -0.002708
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                                Page
<            UNEQUAL          SETTLEMENT          >
                                 420

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P              V2             V3
      T           M2             M3
0.42256    -0.021854     0.017107    -0.009111
 5.27E-06    0.007172    -0.009883
0.56342    -0.021854     0.017107    -0.009111
 5.27E-06    0.010994    -0.017058

LOAD  -2N+1- ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000     1.922599    -2.567467     0.004455
-6.66E-06    0.000997    -0.859568
0.14085     1.922599    -2.567467     0.004455
-6.66E-06   -0.000872     0.217285
0.28171     1.922599    -2.567467     0.004455
-6.66E-06   -0.002740     1.294137
0.42256     1.922599    -2.567467     0.004455
-6.66E-06   -0.004608     2.370989
0.56342     1.922599    -2.567467     0.004455
-6.66E-06   -0.006477     3.447841

LOAD  -2N+2- ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -1.922599     2.567467    -0.004455
 6.66E-06   -0.000997     0.859568
0.14085    -1.922599     2.567467    -0.004455
 6.66E-06    0.000872    -0.217285
0.28171    -1.922599     2.567467    -0.004455
 6.66E-06    0.002740    -1.294137
0.42256    -1.922599     2.567467    -0.004455
 6.66E-06    0.004608    -2.370989
0.56342    -1.922599     2.567467    -0.004455
 6.66E-06    0.006477    -3.447841

COMB  SETTLE ------------------- MAX

REL DIST          P              V2             V3
      T           M2             M3
0.00000     1.922599     2.567467     0.404833
2.10E-05    0.255381     0.859568
0.14085     1.922599     2.567467     0.404833
2.10E-05    0.085585     0.217285
0.28171     1.922599     2.567467     0.404833
2.10E-05    0.083600     1.294137
0.42256     1.922599     2.567467     0.404833
2.10E-05    0.251443     2.370989
0.56342     1.922599     2.567467     0.404833
2.10E-05    0.419286     3.447841

COMB  SETTLE ------------------- MIN

REL DIST          P              V2             V3
      T           M2             M3
0.00000    -1.922599    -2.567467    -0.400178
-1.96E-05   -0.252087    -0.859568
0.14085    -1.922599    -2.567467    -0.400178
-1.96E-05   -0.084244    -0.217285
0.28171    -1.922599    -2.567467    -0.400178
-1.96E-05    0.084211    -1.294137
0.42256    -1.922599    -2.567467    -0.400178
-1.96E-05    0.254007    -2.370989
0.56342    -1.922599    -2.567467    -0.400178
-1.96E-05    0.423803    -3.447841

ELEM      202 ================== LENGTH
=     2.977323

LOAD      -A1 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43663     0.062780    -0.199946    -0.057632
-2.06E-06   -0.063873    -0.385791
0.57748     0.062780    -0.199946    -0.057632
-2.06E-06   -0.039707    -0.301947
0.71832     0.062780    -0.199946    -0.057632
-2.06E-06   -0.015540    -0.218104
0.85916     0.062780    -0.199946    -0.057632
-2.06E-06    0.008627    -0.134260
1.00000     0.062780    -0.199946    -0.057632
-2.06E-06    0.032794    -0.050417
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11~S1504.OUT

                                Page
<            UNEQUAL          SETTLEMENT          >
                                 421

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43663    -0.717429     1.200973     0.303552
 1.25E-05    0.329541     2.515135
0.57748    -0.717429     1.200973     0.303552
 1.25E-05    0.202252     2.011530
0.71832    -0.717429     1.200973     0.303552
 1.25E-05    0.074963     1.507925
0.85916    -0.717429     1.200973     0.303552
 1.25E-05   -0.052326     1.004321
1.00000    -0.717429     1.200973     0.303552
 1.25E-05   -0.179615     0.500716

LOAD      -P2 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43663     1.378677    -2.029742     0.094782
 2.07E-05    0.102626    -4.312865
0.57748     1.378677    -2.029742     0.094782
 2.07E-05    0.062881    -3.461731
0.71832     1.378677    -2.029742     0.094782
 2.07E-05    0.023136    -2.610598
0.85916     1.378677    -2.029742     0.094782
 2.07E-05   -0.016609    -1.759465
1.00000     1.378677    -2.029742     0.094782
 2.07E-05   -0.056354    -0.908331

LOAD      -P3 ------------------

REL DIST          P              V2             V3
      T           M2             M3
0.43663    -0.776911     1.100381    -0.431219
-3.44E-05   -0.467658     2.340252
0.57748    -0.776911     1.100381    -0.431219
```

```
-3.44E-05   -0.286835    1.878829
0.71832     -0.776911    1.100381    -0.431219
-3.44E-05   -0.106011    1.417405
0.85916     -0.776911    1.100381    -0.431219
-3.44E-05   0.074812     0.955982
1.00000     -0.776911    1.100381    -0.431219
-3.44E-05   0.255635     0.494558

LOAD      -P4 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43663     0.091103    -0.175672    0.112071
 1.18E-06   0.121364    -0.351619
0.57748     0.091103    -0.175672    0.112071
 1.18E-06   0.074369    -0.277954
0.71832     0.091103    -0.175672    0.112071
 1.18E-06   0.027374    -0.204289
0.85916     0.091103    -0.175672    0.112071
 1.18E-06   -0.019621   -0.130625
1.00000     0.091103    -0.175672    0.112071
 1.18E-06   -0.066616   -0.056960

LOAD      -P5 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43663     -0.038220    0.104007    -0.021555
 2.09E-06   -0.022000    0.194887
0.57748     -0.038220    0.104007    -0.021555
 2.09E-06   -0.012961    0.151274
0.71832     -0.038220    0.104007    -0.021555
 2.09E-06   -0.003922    0.107660
0.85916     -0.038220    0.104007    -0.021555
 2.09E-06   0.005117     0.064047
1.00000     -0.038220    0.104007    -0.021555
 2.09E-06   0.014156     0.020434

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43663     1.532560    -2.405360    0.149222
 1.98E-05   0.160117    -5.050275
0.57748     1.532560    -2.405360    0.149222
 1.98E-05   0.097544    -4.041633
0.71832     1.532560    -2.405360    0.149222
 1.98E-05   0.034970    -3.032991
0.85916     1.532560    -2.405360    0.149222
 1.98E-05   -0.027603   -2.024350
1.00000     1.532560    -2.405360    0.149222
 1.98E-05   -0.090176   -1.015708
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                  422

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43663     -1.532560    2.405360    -0.149222
-1.98E-05   -0.160117    5.050275
0.57748     -1.532560    2.405360    -0.149222
-1.98E-05   -0.097544    4.041633
0.71832     -1.532560    2.405360    -0.149222
-1.98E-05   -0.034970    3.032991
0.85916     -1.532560    2.405360    -0.149222
-1.98E-05   0.027603     2.024350
1.00000     -1.532560    2.405360    -0.149222
-1.98E-05   0.090176     1.015708

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
        T         M2          M3
0.43663     1.532560     2.405360    0.303552
2.07E-05    0.329541     5.050275
0.57748     1.532560     2.405360    0.303552
2.07E-05    0.202252     4.041633
0.71832     1.532560     2.405360    0.303552
2.07E-05    0.074963     3.032991
0.85916     1.532560     2.405360    0.303552
2.07E-05    0.074812     2.024350
1.00000     1.532560     2.405360    0.303552
2.07E-05    0.255635     1.015708

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
        T         M2          M3
0.43663     -1.532560    -2.405360    -0.431219
-3.44E-05   -0.467658    -5.050275
0.57748     -1.532560    -2.405360    -0.431219
-3.44E-05   -0.366835    -4.041633
0.71832     -1.532560    -2.405360    -0.431219
-3.44E-05   -0.106011    -3.032991
0.85916     -1.532560    -2.405360    -0.431219
-3.44E-05   -0.052326    -2.024350
1.00000     -1.532560    -2.405360    -0.431219
-3.44E-05   -0.179615    -1.015708

ELEM      203 ================== LENGTH
=    2.977409

LOAD      -A1 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     0.079398    -0.202959    -0.069648
 4.91E-06   -0.042856   -0.052755
0.14084     0.079398    -0.202959    -0.069648
 4.91E-06   -0.013649   0.032357
0.28169     0.079398    -0.202959    -0.069648
 4.91E-06   0.015558    0.117468
0.42253     0.079398    -0.202959    -0.069648
 4.91E-06   0.044765    0.202580
0.56338     0.079398    -0.202959    -0.069648
 4.91E-06   0.073972    0.287691

LOAD      -P1 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -0.798307    1.216440    0.308702
-2.21E-05   0.184331     0.511584
0.14084     -0.798307    1.216440    0.308702
-2.21E-05   0.054876     0.001467
0.28169     -0.798307    1.216440    0.308702
-2.21E-05   -0.074578    -0.508650
0.42253     -0.798307    1.216440    0.308702
-2.21E-05   -0.204033    -1.018767
0.56338     -0.798307    1.216440    0.308702
-2.21E-05   -0.333488    -1.528884

LOAD      -P2 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     1.399167    -2.062686    0.105246
 2.83E-06   0.063876    -0.924950
0.14084     1.399167    -2.062686    0.105246
 2.83E-06   -0.019740   -0.059958
0.28169     1.399167    -2.062686    0.105246
 2.83E-06   -0.024395   0.805034
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                  423

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
        T         M2          M3
0.42253     1.399167    -2.062686    0.105246
 2.83E-06   -0.068530   1.670026
0.56338     1.399167    -2.062686    0.105246
 2.83E-06   -0.112665   2.535018

LOAD      -P3 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -0.720920    1.141123    -0.446953
 2.31E-05   -0.267829    0.504730
0.14084     -0.720920    1.141123    -0.446953
 2.31E-05   -0.080398    0.026198
0.28169     -0.720920    1.141123    -0.446953
 2.31E-05   0.107033     -0.452335
0.42253     -0.720920    1.141123    -0.446953
 2.31E-05   0.294464     -0.930868
0.56338     -0.720920    1.141123    -0.446953
 2.31E-05   0.481895     -1.409401

LOAD      -P4 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     0.076653    -0.198538    0.113213
-1.35E-05   0.067417    -0.059499
0.14084     0.076653    -0.198538    0.113213
-1.35E-05   0.019941    0.023759
0.28169     0.076653    -0.198538    0.113213
-1.35E-05   -0.027535   0.107016
0.42253     0.076653    -0.198538    0.113213
-1.35E-05   -0.075012   0.190273
0.56338     0.076653    -0.198538    0.113213
-1.35E-05   -0.122488   0.273531

LOAD      -P5 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -0.035991    0.106619    -0.010560
 4.75E-06   -0.004938    0.020889
0.14084     -0.035991    0.106619    -0.010560
 4.75E-06   -0.000510    -0.023822
0.28169     -0.035991    0.106619    -0.010560
 4.75E-06   0.003918     -0.068533
0.42253     -0.035991    0.106619    -0.010560
 4.75E-06   0.008347     -0.113244
0.56338     -0.035991    0.106619    -0.010560
 4.75E-06   0.012775     -0.157955

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     1.555218    -2.464183    0.148812
-5.71E-06   0.088436    -1.037203
0.14084     1.555218    -2.464183    0.148812
-5.71E-06   0.026032    -0.003842
0.28169     1.555218    -2.464183    0.148812
-5.71E-06   -0.036373   1.029518
0.42253     1.555218    -2.464183    0.148812
-5.71E-06   -0.098777   2.062879
0.56338     1.555218    -2.464183    0.148812
-5.71E-06   -0.161182   3.096240

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -1.555218    2.464183    -0.148812
 5.71E-06   -0.088436    1.037203
0.14084     -1.555218    2.464183    -0.148812
 5.71E-06   -0.026032    0.003842
0.28169     -1.555218    2.464183    -0.148812
 5.71E-06   0.036373     -1.029518
0.42253     -1.555218    2.464183    -0.148812
 5.71E-06   0.098777     -2.062879
0.56338     -1.555218    2.464183    -0.148812
 5.71E-06   0.161182     -3.096240

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
        T         M2          M3
0.00000     1.555218    2.464183    0.308702
2.31E-05    0.184331    1.037203
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                  424

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
        T         M2          M3
0.14084     1.555218    2.464183    0.308702
2.31E-05    0.054876    0.032357
0.28169     1.555218    2.464183    0.308702
2.31E-05    0.107033    1.029518
0.42253     1.555218    2.464183    0.308702
2.31E-05    0.294464    2.062879
0.56338     1.555218    2.464183    0.308702
2.31E-05    0.481895    3.096240

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -1.555218    -2.464183    -0.446953
-2.21E-05   -0.267829    -1.503203
0.14084     -1.555218    -2.464183    -0.446953
-2.21E-05   -0.080398    -0.059958
0.28169     -1.555218    -2.464183    -0.446953
-2.21E-05   -0.074578    -1.029518
0.42253     -1.555218    -2.464183    -0.446953
-2.21E-05   -0.204033    -2.062879
0.56338     -1.555218    -2.464183    -0.446953
-2.21E-05   -0.333488    -3.096240

ELEM      204 ================== LENGTH
=    2.976994

LOAD      -A1 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43668     0.035401    -0.167628    -0.036514
-7.82E-07   -0.042031   -0.347707
0.57751     0.035401    -0.167628    -0.036514
-7.82E-07   -0.026722   -0.277429
0.71834     0.035401    -0.167628    -0.036514
-7.82E-07   -0.011413   -0.207152
0.85917     0.035401    -0.167628    -0.036514
-7.82E-07   0.003895    -0.136874
1.00000     0.035401    -0.167628    -0.036514
-7.82E-07   0.019204    -0.066596

LOAD      -P1 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43668     -0.315440    0.898187    0.195278
 5.67E-06   0.218826     2.029766
0.57751     -0.315440    0.898187    0.195278
 5.67E-06   0.136956     1.653202
0.71834     -0.315440    0.898187    0.195278
 5.67E-06   0.055086     1.276638
0.85917     -0.315440    0.898187    0.195278
 5.67E-06   -0.026785    0.900075
1.00000     -0.315440    0.898187    0.195278
 5.67E-06   -0.108655    0.523511

LOAD      -P2 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43668     0.583391    -1.502305    0.223995
 3.50E-05   0.251635    -3.434905
0.57751     0.583391    -1.502305    0.223995
 3.50E-05   0.157725    -2.805066
0.71834     0.583391    -1.502305    0.223995
 3.50E-05   0.063816    -2.175226
0.85917     0.583391    -1.502305    0.223995
 3.50E-05   -0.030094   -1.545387
1.00000     0.583391    -1.502305    0.223995
 3.50E-05   -0.124003   -0.915548

LOAD      -P3 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43668     -0.299538    0.792091    -0.482282
-4.23E-05   -0.541314    1.796170
0.57751     -0.299538    0.792091    -0.482282
-4.23E-05   -0.339118    1.464087
0.71834     -0.299538    0.792091    -0.482282
-4.23E-05   -0.136922    1.132004
0.85917     -0.299538    0.792091    -0.482282
-4.23E-05   0.065274     0.799921
1.00000     -0.299538    0.792091    -0.482282
-4.23E-05   0.267469     0.467839
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                  425

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43668     0.034815    -0.115595    0.119294
 1.06E-06   0.133816    -0.229754
0.57751     0.034815    -0.115595    0.119294
 1.06E-06   0.083803    -0.181291
0.71834     0.034815    -0.115595    0.119294
 1.06E-06   0.033789    -0.132828
0.85917     0.034815    -0.115595    0.119294
 1.06E-06   -0.016225   -0.084365
1.00000     0.034815    -0.115595    0.119294
 1.06E-06   -0.066239   -0.035902

LOAD      -P5 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43668     -0.038629    0.095250    -0.019771
 1.39E-06   -0.020932    0.186430
0.57751     -0.038629    0.095250    -0.019771
 1.39E-06   -0.012643    0.146497
0.71834     -0.038629    0.095250    -0.019771
 1.39E-06   -0.004354    0.106563
0.85917     -0.038629    0.095250    -0.019771
 1.39E-06   0.003934     0.066630
1.00000     -0.038629    0.095250    -0.019771
 1.39E-06   0.012223     0.026697

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43668     0.653607    -1.785528    0.306774
 3.52E-05   0.343421    -4.012366
0.57751     0.653607    -1.785528    0.306774
 3.52E-05   0.214806    -3.263786
0.71834     0.653607    -1.785528    0.306774
 3.52E-05   0.086191    -2.515206
0.85917     0.653607    -1.785528    0.306774
 3.52E-05   -0.042423   -1.766626
1.00000     0.653607    -1.785528    0.306774
 3.52E-05   -0.171038   -1.018046

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43668     -0.653607    1.785528    -0.306774
-3.52E-05   -0.343421    4.012366
0.57751     -0.653607    1.785528    -0.306774
-3.52E-05   -0.214806    3.263786
0.71834     -0.653607    1.785528    -0.306774
-3.52E-05   -0.086191    2.515206
0.85917     -0.653607    1.785528    -0.306774
-3.52E-05   0.042423     1.766626
1.00000     -0.653607    1.785528    -0.306774
-3.52E-05   0.171038     1.018046

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
        T         M2          M3
0.43668     0.653607    1.785528    0.306774
3.52E-05    0.343421    4.012366
0.57751     0.653607    1.785528    0.306774
3.52E-05    0.214806    3.263786
0.71834     0.653607    1.785528    0.306774
3.52E-05    0.086191    2.515206
0.85917     0.653607    1.785528    0.306774
3.52E-05    0.065274    1.766626
1.00000     0.653607    1.785528    0.306774
3.52E-05    0.267469    1.018046

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
        T         M2          M3
0.43668     -0.653607    -1.785528    -0.482282
-4.23E-05   -0.541314    -4.012366
0.57751     -0.653607    -1.785528    -0.482282
-4.23E-05   -0.339118    -3.263786
0.71834     -0.653607    -1.785528    -0.482282
-4.23E-05   -0.136922    -2.515206
0.85917     -0.653607    -1.785528    -0.482282
-4.23E-05   0.065274     -1.766626
1.00000     -0.653607    -1.785528    -0.482282
-4.23E-05   -0.171038    -1.018046
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                  426

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      205 ================== LENGTH
=    2.977033

LOAD      -A1 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     0.040011    -0.184492    -0.045311
 5.09E-06   -0.026598   -0.069322
0.14083     0.040011    -0.184492    -0.045311
 5.09E-06   -0.007601   0.008028
0.28166     0.040011    -0.184492    -0.045311
 5.09E-06   0.011396    0.085378
0.42249     0.040011    -0.184492    -0.045311
 5.09E-06   0.030393    0.162727
0.56332     0.040011    -0.184492    -0.045311
 5.09E-06   0.049390    0.240077

LOAD      -P1 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -0.338118    0.977241    0.198524
-2.42E-05   0.111786     0.536207
0.14083     -0.338118    0.977241    0.198524
-2.42E-05   0.028553     0.126490
0.28166     -0.338118    0.977241    0.198524
-2.42E-05   -0.054679    -0.283226
0.42249     -0.338118    0.977241    0.198524
-2.42E-05   -0.137912    -0.692943
0.56332     -0.338118    0.977241    0.198524
-2.42E-05   -0.221145    -1.102659

LOAD      -P2 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     0.621613    -1.622276    0.235268
 7.55E-06   0.132188    -0.934046
0.14083     0.621613    -1.622276    0.235268
 7.55E-06   0.033550    -0.253893
0.28166     0.621613    -1.622276    0.235268
 7.55E-06   -0.065088   0.426260
0.42249     0.621613    -1.622276    0.235268
 7.55E-06   -0.163727   1.106412
0.56332     0.621613    -1.622276    0.235268
 7.55E-06   -0.262365   1.786565

LOAD      -P3 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -0.323132    0.862014    -0.498383
 2.19E-05   -0.279943    0.477561
0.14083     -0.323132    0.862014    -0.498383
 2.19E-05   -0.070992    0.116154
0.28166     -0.323132    0.862014    -0.498383
 2.19E-05   0.137959     -0.245252
0.42249     -0.323132    0.862014    -0.498383
 2.19E-05   0.346910     -0.606659
0.56332     -0.323132    0.862014    -0.498383
 2.19E-05   0.555861     -0.968065

LOAD      -P4 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     0.038833    -0.130770    0.120938
-1.36E-05   0.067445    -0.037356
0.14083     0.038833    -0.130770    0.120938
-1.36E-05   0.016741    0.017470
0.28166     0.038833    -0.130770    0.120938
-1.36E-05   -0.033963   0.072296
0.42249     0.038833    -0.130770    0.120938
-1.36E-05   -0.084667   0.127123
0.56332     0.038833    -0.130770    0.120938
-1.36E-05   -0.135371   0.181949

LOAD      -P5 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -0.039207    0.098283    -0.011036
 3.26E-06   -0.004878    0.026957
0.14083     -0.039207    0.098283    -0.011036
 3.26E-06   -0.000251    -0.014249
0.28166     -0.039207    0.098283    -0.011036
 3.26E-06   0.004376     -0.055455
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                  427

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
        T         M2          M3
0.42249     -0.039207    0.098283    -0.011036
 3.26E-06   0.000003     -0.096681
0.56332     -0.039207    0.098283    -0.011036
 3.26E-06   0.013629     -0.137867

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     0.700457    -1.937538    0.310895
-9.51E-07   0.173035    -1.040724
0.14083     0.700457    -1.937538    0.310895
-9.51E-07   0.042690    -0.228396
0.28166     0.700457    -1.937538    0.310895
-9.51E-07   -0.087655   0.583933
0.42249     0.700457    -1.937538    0.310895
-9.51E-07   -0.218001   1.396262
0.56332     0.700457    -1.937538    0.310895
-9.51E-07   -0.348346   2.208591

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -0.700457    1.937538    -0.310895
 9.51E-07   -0.173035    1.040724
0.14083     -0.700457    1.937538    -0.310895
 9.51E-07   -0.042690    0.228396
0.28166     -0.700457    1.937538    -0.310895
 9.51E-07   0.087655     -0.583933
0.42249     -0.700457    1.937538    -0.310895
 9.51E-07   0.218001     -1.396262
0.56332     -0.700457    1.937538    -0.310895
 9.51E-07   0.348346     -2.208591

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
        T         M2          M3
0.00000     0.700457    1.937538    0.310895
2.19E-05    0.173035    1.040724
0.14083     0.700457    1.937538    0.310895
2.19E-05    0.042690    0.228396
0.28166     0.700457    1.937538    0.310895
2.19E-05    0.137959    0.583933
0.42249     0.700457    1.937538    0.310895
2.19E-05    0.346910    1.396262
0.56332     0.700457    1.937538    0.310895
2.19E-05    0.555861    2.208591

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
        T         M2          M3
0.00000     -0.700457    -1.937538    -0.498383
-2.42E-05   -0.279943    -1.040724
0.14083     -0.700457    -1.937538    -0.498383
-2.42E-05   -0.070992    -0.253893
0.28166     -0.700457    -1.937538    -0.498383
-2.42E-05   -0.087655    -0.583933
0.42249     -0.700457    -1.937538    -0.498383
-2.42E-05   -0.218001    -1.396262
0.56332     -0.700457    -1.937538    -0.498383
-2.42E-05   -0.348346    -2.208591

ELEM      206 ================== LENGTH
=    2.977713

LOAD      -A1 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43658     0.008463    -0.117452    -0.020484
 1.42E-07   -0.023744   -0.243594
0.57743     0.008463    -0.117452    -0.020484
 1.42E-07   -0.015152   -0.194332
0.71829     0.008463    -0.117452    -0.020484
 1.42E-07   -0.006561   -0.145069
0.85914     0.008463    -0.117452    -0.020484
 1.42E-07   0.002031    -0.095806
1.00000     0.008463    -0.117452    -0.020484
 1.42E-07   0.010622    -0.046544
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                  428

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43658     -0.046535    0.611764    0.112936
 4.33E-07   0.126440     1.397400
0.57743     -0.046535    0.611764    0.112936
 4.33E-07   0.079072     1.140809
0.71829     -0.046535    0.611764    0.112936
 4.33E-07   0.031703     0.884218
0.85914     -0.046535    0.611764    0.112936
 4.33E-07   -0.015665   0.627627
1.00000     -0.046535    0.611764    0.112936
 4.33E-07   -0.063034   0.371036

LOAD      -P2 --------------------

REL DIST          P           V2          V3
        T         M2          M3
0.43658     0.099482    -0.977310    0.345250
 4.64E-05   0.386513    -2.287665
0.57743     0.099482    -0.977310    0.345250
 4.64E-05   0.241705    -1.877753
0.71829     0.099482    -0.977310    0.345250
 4.64E-05   0.096898    -1.467842
```

0.85914 0.099482 -0.977310 0.345250
4.64E-05 -0.047910 -1.057931
1.00000 0.099482 -0.977310 0.345250
4.64E-05 -0.192717 -0.648019

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43658 -0.036803 0.469973 -0.543402
-5.15E-05 -0.608653 1.096095
0.57743 -0.036803 0.469973 -0.543402
-5.15E-05 -0.380735 0.898976
0.71829 -0.036803 0.469973 -0.543402
-5.15E-05 -0.152817 0.701856
0.85914 -0.036803 0.469973 -0.543402
-5.15E-05 0.075101 0.504736
1.00000 -0.036803 0.469973 -0.543402
-5.15E-05 0.303019 0.307616

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43658 0.008719 -0.044762 0.123001
4.06E-06 0.137850 -0.084925
0.57743 0.008719 -0.044762 0.123001
4.06E-06 0.086260 -0.066151
0.71829 0.008719 -0.044762 0.123001
4.06E-06 0.034670 -0.047376
0.85914 0.008719 -0.044762 0.123001
4.06E-06 -0.016920 -0.028601
1.00000 0.008719 -0.044762 0.123001
4.06E-06 -0.068510 -0.009827

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43658 -0.033326 0.057787 -0.017301
4.11E-07 -0.018407 0.122688
0.57743 -0.033326 0.057787 -0.017301
4.11E-07 -0.011150 0.098451
0.71829 -0.033326 0.057787 -0.017301
4.11E-07 -0.003893 0.074213
0.85914 -0.033326 0.057787 -0.017301
4.11E-07 0.003363 0.049975
1.00000 -0.033326 0.057787 -0.017301
4.11E-07 0.010620 0.025738

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43658 0.116664 -1.139524 0.447767
5.06E-05 0.500620 -2.616184
0.57743 0.116664 -1.139524 0.447767
5.06E-05 0.312813 -2.138235
0.71829 0.116664 -1.139524 0.447767
5.06E-05 0.125007 -1.660287
0.85914 0.116664 -1.139524 0.447767
5.06E-05 -0.062799 -1.182338
1.00000 0.116664 -1.139524 0.447767
5.06E-05 -0.250605 -0.704390

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43658 -0.116664 1.139524 -0.447767
-5.06E-05 -0.500620 2.616184
0.57743 -0.116664 1.139524 -0.447767
-5.06E-05 -0.312813 2.138235
0.71829 -0.116664 1.139524 -0.447767
-5.06E-05 -0.125007 1.660287
0.85914 -0.116664 1.139524 -0.447767
-5.06E-05 0.062799 1.182338
1.00000 -0.116664 1.139524 -0.447767
-5.06E-05 0.250605 0.704390

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43658 0.116664 1.139524 0.447767
5.06E-05 0.500620 2.616184
0.57743 0.116664 1.139524 0.447767
5.06E-05 0.312813 2.138235
0.71829 0.116664 1.139524 0.447767
5.06E-05 0.125007 1.660287
0.85914 0.116664 1.139524 0.447767
5.06E-05 0.075101 1.182338
1.00000 0.116664 1.139524 0.447767
5.06E-05 0.303019 0.704390

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43658 -0.116664 -1.139524 -0.543402
-5.15E-05 -0.608653 -2.616184
0.57743 -0.116664 -1.139524 -0.543402
-5.15E-05 -0.380735 -2.138235
0.71829 -0.116664 -1.139524 -0.543402
-5.15E-05 -0.152817 -1.660287
0.85914 -0.116664 -1.139524 -0.543402
-5.15E-05 -0.062799 -1.182338
1.00000 -0.116664 -1.139524 -0.543402
-5.15E-05 -0.250605 -0.704390

ELEM 207 ========== LENGTH = 2.976758

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.010854 -0.094292 -0.027138
3.63E-06 -0.016197 -0.048778
0.14082 0.010854 -0.094292 -0.027138
3.63E-06 -0.004821 -0.009252
0.28164 0.010854 -0.094292 -0.027138
3.63E-06 0.006555 0.030274
0.42246 0.010854 -0.094292 -0.027138
3.63E-06 0.017631 0.069801
0.56328 0.010854 -0.094292 -0.027138
3.63E-06 0.029307 0.109327

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.058641 0.504015 0.116833
-1.79E-05 0.066391 0.381448
0.14082 -0.058641 0.504015 0.116833
-1.79E-05 0.017416 0.170170
0.28164 -0.058641 0.504015 0.116833
-1.79E-05 -0.031559 -0.041108
0.42246 -0.058641 0.504015 0.116833
-1.79E-05 -0.080534 -0.252385
0.56328 -0.058641 0.504015 0.116833
-1.79E-05 -0.129509 -0.463663

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.117707 -0.850124 0.354327
-3.17E-07 0.199319 -0.662197
0.14082 0.117707 -0.850124 0.354327
-3.17E-07 0.050789 -0.305834
0.28164 0.117707 -0.850124 0.354327
-3.17E-07 -0.097741 0.050529

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42246 0.117707 -0.850124 0.354327
-3.17E-07 -0.246271 0.406893
0.56328 0.117707 -0.850124 0.354327
-3.17E-07 -0.394801 0.763256

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.046452 0.455801 -0.558506
2.78E-05 -0.314589 0.313304
0.14082 -0.046452 0.455801 -0.558506
2.78E-05 -0.080469 0.122237
0.28164 -0.046452 0.455801 -0.558506
2.78E-05 0.153651 -0.068830
0.42246 -0.046452 0.455801 -0.558506
2.78E-05 0.387771 -0.259898
0.56328 -0.046452 0.455801 -0.558506
2.78E-05 0.621891 -0.450965

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.009977 -0.079709 0.124785
-1.62E-05 0.069795 -0.009435
0.14082 0.009977 -0.079709 0.124785
-1.62E-05 0.017487 0.023978
0.28164 0.009977 -0.079709 0.124785
-1.62E-05 -0.034822 0.057391
0.42246 0.009977 -0.079709 0.124785
-1.62E-05 -0.087131 0.090804
0.56328 0.009977 -0.079709 0.124785
-1.62E-05 -0.139439 0.124217

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.033444 0.064309 -0.010301
2.96E-06 -0.004720 0.025658
0.14082 -0.033444 0.064309 -0.010301
2.96E-06 -0.000402 -0.001299
0.28164 -0.033444 0.064309 -0.010301
2.96E-06 0.003916 -0.028257
0.42246 -0.033444 0.064309 -0.010301
2.96E-06 0.008234 -0.055215
0.56328 -0.033444 0.064309 -0.010301
2.96E-06 0.012552 -0.082172

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.138537 -1.024125 0.451974
-1.29E-05 0.252918 -0.720411
0.14082 0.138537 -1.024125 0.451974
-1.29E-05 0.063455 -0.291108
0.28164 0.138537 -1.024125 0.451974
-1.29E-05 -0.126005 0.138195
0.42246 0.138537 -1.024125 0.451974
-1.29E-05 -0.315471 0.567497
0.56328 0.138537 -1.024125 0.451974
-1.29E-05 -0.504934 0.996800

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.138537 1.024125 -0.451974
1.29E-05 -0.252918 0.720411
0.14082 -0.138537 1.024125 -0.451974
1.29E-05 -0.063455 0.291108
0.28164 -0.138537 1.024125 -0.451974
1.29E-05 0.126008 -0.138195
0.42246 -0.138537 1.024125 -0.451974
1.29E-05 0.315471 -0.567497
0.56328 -0.138537 1.024125 -0.451974
1.29E-05 0.504934 -0.996800

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.138537 1.024125 0.451974
2.78E-05 0.252918 0.720411
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14082 0.138537 1.024125 0.451974
2.78E-05 0.063455 0.291108
0.28164 0.138537 1.024125 0.451974
2.78E-05 -0.153651 0.138195
0.42246 0.138537 1.024125 0.451974
2.78E-05 0.387771 0.567497
0.56328 0.138537 1.024125 0.451974
2.78E-05 0.621891 0.996800

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.138537 -1.024125 -0.558506
-1.79E-05 -0.314589 -0.720411
0.14082 -0.138537 -1.024125 -0.558506
-1.79E-05 -0.080469 -0.305834
0.28164 -0.138537 -1.024125 -0.558506
-1.79E-05 -0.126008 -0.138195
0.42246 -0.138537 -1.024125 -0.558506
-1.79E-05 -0.315471 -0.567497
0.56328 -0.138537 -1.024125 -0.558506
-1.79E-05 -0.504934 -0.996800

ELEM 208 ========== LENGTH = 2.977509

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43661 -0.005457 -0.043802 -0.005020
4.22E-07 -0.006234 -0.132841
0.57745 -0.005457 -0.043802 -0.005020
4.22E-07 -0.004129 -0.114471
0.71830 -0.005457 -0.043802 -0.005020
4.22E-07 -0.002023 -0.096101
0.85915 -0.005457 -0.043802 -0.005020
4.22E-07 8.20E-05 -0.077731
1.00000 -0.005457 -0.043802 -0.005020
4.22E-07 0.002187 -0.059362

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.055377 0.241627 0.035196
-1.57E-06 0.039491 0.785503
0.57745 0.055377 0.241627 0.035196
-1.57E-06 0.024730 0.684171
0.71830 0.055377 0.241627 0.035196
-1.57E-06 0.009970 0.582838
0.85915 0.055377 0.241627 0.035196
-1.57E-06 -0.004791 0.481505
1.00000 0.055377 0.241627 0.035196
-1.57E-06 -0.019551 0.380173

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43661 -0.077454 -0.386414 0.448338
4.87E-05 0.501657 -1.222185
0.57745 -0.077454 -0.386414 0.448338
4.87E-05 0.313635 -1.060132
0.71830 -0.077454 -0.386414 0.448338
4.87E-05 0.125612 -0.898078
0.85915 -0.077454 -0.386414 0.448338
4.87E-05 -0.062410 -0.736025
1.00000 -0.077454 -0.386414 0.448338
4.87E-05 -0.250433 -0.573972

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.047245 0.162596 -0.577796
-4.87E-05 -0.647040 0.454150
0.57745 0.047245 0.162596 -0.577796
-4.87E-05 -0.404726 0.385961
0.71830 0.047245 0.162596 -0.577796
-4.87E-05 -0.162412 0.317772
0.85915 0.047245 0.162596 -0.577796
-4.87E-05 0.079903 0.249583
1.00000 0.047245 0.162596 -0.577796
-4.87E-05 0.322217 0.181394

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.010842 -0.004945 0.111230
2.35E-07 0.124825 0.048558
0.57745 0.010842 -0.004945 0.111230
2.35E-07 0.078177 0.050631
0.71830 0.010842 -0.004945 0.111230
2.35E-07 0.031530 0.052705
0.85915 0.010842 -0.004945 0.111230
2.35E-07 -0.015118 0.054779
1.00000 0.010842 -0.004945 0.111230
2.35E-07 -0.061765 0.056852

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43661 -0.030553 0.030938 -0.011948
9.72E-07 -0.012698 0.066814
0.57745 -0.030553 0.030938 -0.011948
9.72E-07 -0.007688 0.053839
0.71830 -0.030553 0.030938 -0.011948
9.72E-07 -0.002677 0.040864
0.85915 -0.030553 0.030938 -0.011948
9.72E-07 0.002334 0.027889
1.00000 -0.030553 0.030938 -0.011948
9.72E-07 0.007345 0.014915

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43661 -0.072069 -0.435161 0.554548
4.93E-05 0.620248 -1.306467
0.57745 -0.072069 -0.435161 0.554548
4.93E-05 0.387683 -1.123971
0.71830 -0.072069 -0.435161 0.554548
4.93E-05 0.155118 -0.941475
0.85915 -0.072069 -0.435161 0.554548
4.93E-05 -0.077446 -0.758978
1.00000 -0.072069 -0.435161 0.554548
4.93E-05 -0.310011 -0.576482

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.072069 0.435161 -0.554548
-4.93E-05 -0.620248 1.306467
0.57745 0.072069 0.435161 -0.554548
-4.93E-05 -0.387683 1.123971
0.71830 0.072069 0.435161 -0.554548
-4.93E-05 -0.155118 0.941475
0.85915 0.072069 0.435161 -0.554548
-4.93E-05 0.077446 0.758978
1.00000 0.072069 0.435161 -0.554548
-4.93E-05 0.310011 0.576482

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.072069 0.435161 0.554548
4.93E-05 0.620248 1.306467
0.57745 0.072069 0.435161 0.554548
4.93E-05 0.387683 1.123971
0.71830 0.072069 0.435161 0.554548
4.93E-05 0.155118 0.941475
0.85915 0.072069 0.435161 0.554548
4.93E-05 0.079903 0.758978
1.00000 0.072069 0.435161 0.554548
4.93E-05 0.322217 0.576482

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -0.077454 -0.435161 -0.577796
-4.93E-05 -0.647040 -1.306467
0.57745 -0.077454 -0.435161 -0.577796
-4.93E-05 -0.404726 -1.123971
0.71830 -0.077454 -0.435161 -0.577796
-4.93E-05 -0.162412 -0.941475
0.85915 -0.077454 -0.435161 -0.577796
-4.93E-05 -0.077446 -0.758978
1.00000 -0.077454 -0.435161 -0.577796
-4.93E-05 -0.310011 -0.576482

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 209 ========== LENGTH = 2.977568

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.000106 -0.074328 -0.009880
1.74E-06 -0.006267 -0.061971
0.14085 -0.000106 -0.074328 -0.009880
1.74E-06 -0.002123 -0.030799
0.28170 -0.000106 -0.074328 -0.009880
1.74E-06 0.002020 0.000374
0.42255 -0.000106 -0.074328 -0.009880
1.74E-06 0.006164 0.031546
0.56340 -0.000106 -0.074328 -0.009880
1.74E-06 0.010307 0.062719

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.029680 0.383968 0.038223
-9.18E-06 0.022113 0.392338
0.14085 0.029680 0.383968 0.038223
-9.18E-06 0.006083 0.231305
0.28170 0.029680 0.383968 0.038223
-9.18E-06 -0.009948 0.070272
0.42255 0.029680 0.383968 0.038223
-9.18E-06 -0.025979 -0.090761
0.56340 0.029680 0.383968 0.038223
-9.18E-06 -0.042009 -0.251794

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.044445 -0.582846 0.455716
-6.96E-06 0.256153 -0.588781
0.14085 -0.044445 -0.582846 0.455716
-6.96E-06 0.065029 -0.344340
0.28170 -0.044445 -0.582846 0.455716
-6.96E-06 -0.126094 -0.099899
0.42255 -0.044445 -0.582846 0.455716
-6.96E-06 -0.317218 0.144542
0.56340 -0.044445 -0.582846 0.455716
-6.96E-06 -0.508342 0.388983

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.038523 0.245880 -0.589777
2.32E-05 -0.331750 0.183990
0.14085 0.038523 0.245880 -0.589777
2.32E-05 -0.084402 0.080870
0.28170 0.038523 0.245880 -0.589777
2.32E-05 0.162946 -0.022250
0.42255 0.038523 0.245880 -0.589777
2.32E-05 0.410294 -0.125370
0.56340 0.038523 0.245880 -0.589777
2.32E-05 0.657641 -0.228490

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.005927 -0.003273 0.112309
-1.02E-05 0.062592 0.060122
0.14085 0.005927 -0.003273 0.112309
-1.02E-05 0.015490 0.061495
0.28170 0.005927 -0.003273 0.112309
-1.02E-05 -0.031611 0.062868
0.42255 0.005927 -0.003273 0.112309
-1.02E-05 -0.078713 0.064240
0.56340 0.005927 -0.003273 0.112309
-1.02E-05 -0.125814 0.065613

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.029580 0.030600 -0.006592
1.32E-06 -0.002842 0.014302
0.14085 -0.029580 0.030600 -0.006592
1.32E-06 -7.74E-05 0.001469
0.28170 -0.029580 0.030600 -0.006592
1.32E-06 0.002687 -0.011364

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42255 -0.029580 0.030600 -0.006592
1.32E-06 0.005452 -0.024198
0.56340 -0.029580 0.030600 -0.006592
1.32E-06 0.008216 -0.037031

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.038624 -0.660447 0.558145
-1.54E-05 0.312478 -0.590630
0.14085 -0.038624 -0.660447 0.558145
-1.54E-05 0.078397 -0.313644
0.28170 -0.038624 -0.660447 0.558145
-1.54E-05 -0.155685 -0.036658
0.42255 -0.038624 -0.660447 0.558145
-1.54E-05 -0.389767 0.240328
0.56340 -0.038624 -0.660447 0.558145
-1.54E-05 -0.623849 0.517315

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.038624 0.660447 -0.558145
1.54E-05 -0.312478 0.590630
0.14085 0.038624 0.660447 -0.558145
1.54E-05 -0.078397 0.313644
0.28170 0.038624 0.660447 -0.558145
1.54E-05 0.155685 0.036658
0.42255 0.038624 0.660447 -0.558145
1.54E-05 0.389767 -0.240328
0.56340 0.038624 0.660447 -0.558145
1.54E-05 0.623849 -0.517315

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.038624 0.660447 0.558145
2.32E-05 0.312478 0.590630
0.14085 0.038624 0.660447 0.558145
2.32E-05 0.078397 0.313644
0.28170 0.038624 0.660447 0.558145
2.32E-05 0.036658 0.036658
0.42255 0.038624 0.660447 0.558145
2.32E-05 0.240328 0.240328
0.56340 0.038624 0.660447 0.558145
2.32E-05 0.657641 0.517315

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.044445 -0.660447 -0.589777
-1.54E-05 -0.331750 -0.590630
0.14085 -0.044445 -0.660447 -0.589777
-1.54E-05 -0.084402 -0.313644
0.28170 -0.044445 -0.660447 -0.589777
-1.54E-05 -0.155685 -0.099899
0.42255 -0.044445 -0.660447 -0.589777
-1.54E-05 -0.389767 -0.240328
0.56340 -0.044445 -0.660447 -0.589777
-1.54E-05 -0.623849 -0.517315

ELEM 210 ========== LENGTH = 2.977386

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.006064 -0.028962 0.008968
4.27E-07 0.009663 -0.080968
0.57747 -0.006064 -0.028962 0.008968
4.27E-07 0.005902 -0.068823
0.71831 -0.006064 -0.028962 0.008968
4.27E-07 0.002141 -0.056678
0.85916 -0.006064 -0.028962 0.008968
4.27E-07 -0.001619 -0.044533
1.00000 -0.006064 -0.028962 0.008968
4.27E-07 -0.005380 -0.032388
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.051479 0.154456 -0.034064
-2.05E-06 0.038440 0.475637
0.57747 0.051479 0.154456 -0.034064
-2.05E-06 -0.024155 0.410866
0.71831 0.051479 0.154456 -0.034064
-2.05E-06 -0.009870 0.346095
0.85916 0.051479 0.154456 -0.034064
-2.05E-06 0.004414 0.281325
1.00000 0.051479 0.154456 -0.034064

```
-2.05E-06     0.018699     0.216554

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -0.066335    -0.209273     0.526700
 5.20E-05     0.589793    -0.614236
0.57747    -0.066335    -0.209273     0.526700
 5.20E-05     0.368923    -0.526478
0.71831    -0.066335    -0.209273     0.526700
 5.20E-05     0.148053    -0.438720
0.85916    -0.066335    -0.209273     0.526700
 5.20E-05    -0.072816    -0.350962
1.00000    -0.066335    -0.209273     0.526700
 5.20E-05    -0.293686    -0.263204

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43662     0.020950     0.015534    -0.579062
-5.36E-05    -0.648428    -0.025447
0.57747     0.020950     0.015534    -0.579062
-5.36E-05    -0.405600    -0.031961
0.71831     0.020950     0.015534    -0.579062
-5.36E-05    -0.162772    -0.038476
0.85916     0.020950     0.015534    -0.579062
-5.36E-05     0.080055    -0.044990
1.00000     0.020950     0.015534    -0.579062
-5.36E-05     0.322883    -0.051504

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43662     0.031663     0.059427     0.080516
 2.74E-06     0.090416     0.226331
0.57747     0.031663     0.059427     0.080516
 2.74E-06     0.056652     0.201411
0.71831     0.031663     0.059427     0.080516
 2.74E-06     0.022888     0.176490
0.85916     0.031663     0.059427     0.080516
 2.74E-06    -0.010876     0.151570
1.00000     0.031663     0.059427     0.080516
 2.74E-06    -0.044640     0.126649

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -0.031693     0.008818    -0.003057
 4.52E-07    -0.003004     0.018683
0.57747    -0.031693     0.008818    -0.003057
 4.52E-07    -0.001722     0.014986
0.71831    -0.031693     0.008818    -0.003057
 4.52E-07    -0.000440     0.011288
0.85916    -0.031693     0.008818    -0.003057
 4.52E-07     0.000842     0.007590
1.00000    -0.031693     0.008818    -0.003057
 4.52E-07     0.002124     0.003892

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -0.040737    -0.178808     0.616184
 5.52E-05     0.689872    -0.468873
0.57747    -0.040737    -0.178808     0.616184
 5.52E-05     0.431477    -0.393890
0.71831    -0.040737    -0.178808     0.616184
 5.52E-05     0.173083    -0.318908
0.85916    -0.040737    -0.178808     0.616184
 5.52E-05    -0.085312    -0.243925
1.00000    -0.040737    -0.178808     0.616184
 5.52E-05    -0.343706    -0.168943
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                436

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43662     0.040737     0.178808    -0.616184
-5.52E-05    -0.689872     0.468873
0.57747     0.040737     0.178808    -0.616184
-5.52E-05    -0.431477     0.393890
0.71831     0.040737     0.178808    -0.616184
-5.52E-05    -0.173083     0.318908
0.85916     0.040737     0.178808    -0.616184
-5.52E-05     0.085312     0.243925
1.00000     0.040737     0.178808    -0.616184
-5.52E-05     0.343706     0.168943

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43662     0.051479     0.178808     0.616184
 5.52E-05     0.689872     0.475637
0.57747     0.051479     0.178808     0.616184
 5.52E-05     0.431477     0.410866
0.71831     0.051479     0.178808     0.616184
 5.52E-05     0.173083     0.346095
0.85916     0.051479     0.178808     0.616184
 5.52E-05     0.085312     0.281325
1.00000     0.051479     0.178808     0.616184
 5.52E-05     0.343706     0.216554

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43662    -0.066335    -0.209273    -0.616184
-5.52E-05    -0.689872    -0.614236
0.57747    -0.066335    -0.209273    -0.616184
-5.52E-05    -0.431477    -0.526478
0.71831    -0.066335    -0.209273    -0.616184
-5.52E-05    -0.173083    -0.438720
0.85916    -0.066335    -0.209273    -0.616184
-5.52E-05    -0.085312    -0.350962
1.00000    -0.066335    -0.209273    -0.616184
-5.52E-05    -0.343706    -0.263204

 ELEM      211 ================== LENGTH
=     2.977440

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.003166    -0.028973     0.005553
-1.82E-07     0.002511    -0.034235
0.14085    -0.003166    -0.028973     0.005553
-1.82E-07     0.000182    -0.022085
0.28169    -0.003166    -0.028973     0.005553
-1.82E-07    -0.002146    -0.009935
0.42254    -0.003166    -0.028973     0.005553
-1.82E-07    -0.004475     0.002215
0.56338    -0.003166    -0.028973     0.005553
-1.82E-07    -0.006803     0.014365

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.037429     0.154571    -0.032635
-1.24E-07    -0.011501     0.225170
0.14085     0.037429     0.154571    -0.032635
-1.24E-07    -0.003815     0.160349
0.28169     0.037429     0.154571    -0.032635
-1.24E-07     0.009871     0.095528
0.42254     0.037429     0.154571    -0.032635
-1.24E-07     0.023557     0.030707
0.56338     0.037429     0.154571    -0.032635
-1.24E-07     0.037243    -0.034113

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.052245    -0.206259     0.535165
-1.73E-05     0.300397    -0.271632
0.14085    -0.052245    -0.206259     0.535165
-1.73E-05     0.075970    -0.185136
0.28169    -0.052245    -0.206259     0.535165
-1.73E-05    -0.148457    -0.098639
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                437

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.42254    -0.052245    -0.206259     0.535165
-1.73E-05    -0.372884    -0.012142
0.56338    -0.052245    -0.206259     0.535165
-1.73E-05    -0.597311     0.074354

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.025575     0.008259    -0.589582
 2.49E-05    -0.331279    -0.054403
0.14085     0.025575     0.008259    -0.589582
 2.49E-05    -0.084031    -0.057866
0.28169     0.025575     0.008259    -0.589582
 2.49E-05     0.163216    -0.061329
0.42254     0.025575     0.008259    -0.589582
 2.49E-05     0.410463    -0.064793
0.56338     0.025575     0.008259    -0.589582
 2.49E-05     0.657710    -0.068256

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.022300     0.064505     0.080903
-7.86E-06     0.044934     0.132251
0.14085     0.022300     0.064505     0.080903
-7.86E-06     0.011006     0.105200
0.28169     0.022300     0.064505     0.080903
-7.86E-06    -0.022921     0.078149
0.42254     0.022300     0.064505     0.080903
-7.86E-06    -0.056849     0.051099
0.56338     0.022300     0.064505     0.080903
-7.86E-06    -0.090776     0.024048

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.029893     0.007897     0.000597
 5.62E-07     0.000938     0.002849
0.14085    -0.029893     0.007897     0.000597
 5.62E-07     0.000688    -0.000463
0.28169    -0.029893     0.007897     0.000597
 5.62E-07     0.000437    -0.003774
0.42254    -0.029893     0.007897     0.000597
 5.62E-07     0.000187    -0.007086
0.56338    -0.029893     0.007897     0.000597
 5.62E-07    -6.31E-05    -0.010397

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.033111    -0.170726     0.621621
-2.53E-05     0.347841    -0.173617
0.14085    -0.033111    -0.170726     0.621621
-2.53E-05     0.087158    -0.102021
0.28169    -0.033111    -0.170726     0.621621
-2.53E-05    -0.173524    -0.030425
0.42254    -0.033111    -0.170726     0.621621
-2.53E-05    -0.434207     0.041171
0.56338    -0.033111    -0.170726     0.621621
-2.53E-05    -0.694890     0.112767

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.033111     0.170726    -0.621621
 2.53E-05    -0.347841     0.173617
0.14085     0.033111     0.170726    -0.621621
 2.53E-05    -0.087158     0.102021
0.28169     0.033111     0.170726    -0.621621
 2.53E-05     0.173524     0.030425
0.42254     0.033111     0.170726    -0.621621
 2.53E-05     0.434207    -0.041171
0.56338     0.033111     0.170726    -0.621621
 2.53E-05     0.694890    -0.112767

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.037429     0.170726     0.621621
2.53E-05     0.347841     0.225170
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                438

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.14085     0.037429     0.170726     0.621621
 2.53E-05     0.087158     0.160349
0.28169     0.037429     0.170726     0.621621
 2.53E-05     0.173524     0.095528
0.42254     0.037429     0.170726     0.621621
 2.53E-05     0.434207     0.051099
0.56338     0.037429     0.170726     0.621621
 2.53E-05     0.694890     0.112767

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.052245    -0.206259    -0.621621
-2.53E-05    -0.347841    -0.271632
0.14085    -0.052245    -0.206259    -0.621621
-2.53E-05    -0.087158    -0.185136
0.28169    -0.052245    -0.206259    -0.621621
-2.53E-05    -0.173524    -0.098639
0.42254    -0.052245    -0.206259    -0.621621
-2.53E-05    -0.434207    -0.064793
0.56338    -0.052245    -0.206259    -0.621621
-2.53E-05    -0.694890    -0.112767

 ELEM      212 ================== LENGTH
=     2.977327

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.002616    -0.012523     0.019150
 5.44E-07     0.021167    -0.040473
0.57747    -0.002616    -0.012523     0.019150
 5.44E-07     0.013136    -0.035222
0.71832    -0.002616    -0.012523     0.019150
 5.44E-07     0.005106    -0.029970
0.85916    -0.002616    -0.012523     0.019150
 5.44E-07    -0.002924    -0.024719
1.00000    -0.002616    -0.012523     0.019150
 5.44E-07    -0.010954    -0.019468

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663     0.022330     0.066394    -0.084421
-2.85E-06    -0.094785     0.242397
0.57747     0.022330     0.066394    -0.084421
-2.85E-06    -0.059385     0.214556
0.71832     0.022330     0.066394    -0.084421
-2.85E-06    -0.023984     0.186714
0.85916     0.022330     0.066394    -0.084421
-2.85E-06     0.011416     0.158873
1.00000     0.022330     0.066394    -0.084421
-2.85E-06     0.046817     0.131032

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663     0.007076     0.010942     0.566522
5.27E-05     0.634323    -0.039124
0.57747     0.007076     0.010942     0.566522
5.27E-05     0.396763    -0.043712
0.71832     0.007076     0.010942     0.566522
5.27E-05     0.159202    -0.048301
0.85916     0.007076     0.010942     0.566522
5.27E-05    -0.078358    -0.052889
1.00000     0.007076     0.010942     0.566522
5.27E-05    -0.315919    -0.057477

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.051740    -0.207716    -0.541679
-5.28E-05    -0.606535    -0.603792
0.57747    -0.051740    -0.207716    -0.541679
-5.28E-05    -0.379392    -0.516690
0.71832    -0.051740    -0.207716    -0.541679
-5.28E-05    -0.152249    -0.429589
0.85916    -0.051740    -0.207716    -0.541679
-5.28E-05     0.074895    -0.342487
1.00000    -0.051740    -0.207716    -0.541679
-5.28E-05     0.302038    -0.255385
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                439

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663     0.060023     0.150961     0.031484
 1.82E-06     0.035651     0.461350
0.57747     0.060023     0.150961     0.031484
 1.82E-06     0.022449     0.398047
0.71832     0.060023     0.150961     0.031484
 1.82E-06     0.009247     0.334745
0.85916     0.060023     0.150961     0.031484
 1.82E-06    -0.003956     0.271442
1.00000     0.060023     0.150961     0.031484
 1.82E-06    -0.017158     0.208139

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.035073    -0.008059     0.008945
 5.93E-07     0.010179    -0.020358
0.57747    -0.035073    -0.008059     0.008945
 5.93E-07     0.006429    -0.016979
0.71832    -0.035073    -0.008059     0.008945
 5.93E-07     0.002678    -0.013599
0.85916    -0.035073    -0.008059     0.008945
 5.93E-07    -0.001073    -0.010220
1.00000    -0.035073    -0.008059     0.008945
 5.93E-07    -0.004824    -0.006840

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663     0.064484     0.149380     0.617156
 5.51E-05     0.691141     0.381753
0.57747     0.064484     0.149380     0.617156
 5.51E-05     0.432348     0.319113
0.71832     0.064484     0.149380     0.617156
 5.51E-05     0.173555     0.256473
0.85916     0.064484     0.149380     0.617156
 5.51E-05    -0.085238     0.193834
1.00000     0.064484     0.149380     0.617156
 5.51E-05    -0.344031     0.131194

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.064484    -0.149380    -0.617156
-5.51E-05    -0.691141    -0.381753
0.57747    -0.064484    -0.149380    -0.617156
-5.51E-05    -0.432348    -0.319113
0.71832    -0.064484    -0.149380    -0.617156
-5.51E-05    -0.173555    -0.256473
0.85916    -0.064484    -0.149380    -0.617156
-5.51E-05     0.085238    -0.193834
1.00000    -0.064484    -0.149380    -0.617156
-5.51E-05     0.344031    -0.131194

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
0.43663     0.064484     0.150961     0.617156
 5.51E-05     0.691141     0.461350
0.57747     0.064484     0.150961     0.617156
 5.51E-05     0.432348     0.398047
0.71832     0.064484     0.150961     0.617156
 5.51E-05     0.173555     0.334745
0.85916     0.064484     0.150961     0.617156
 5.51E-05     0.085238     0.271442
1.00000     0.064484     0.150961     0.617156
 5.51E-05     0.344031     0.208139

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
0.43663    -0.064484    -0.207716    -0.617156
-5.51E-05    -0.691141    -0.603792
0.57747    -0.064484    -0.207716    -0.617156
-5.51E-05    -0.432348    -0.516690
0.71832    -0.064484    -0.207716    -0.617156
-5.51E-05    -0.173555    -0.429589
0.85916    -0.064484    -0.207716    -0.617156
-5.51E-05    -0.085238    -0.342487
1.00000    -0.064484    -0.207716    -0.617156
-5.51E-05    -0.344031    -0.255385
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                440

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      213 ================== LENGTH
=     2.977387

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000593    -0.013684     0.016877
-1.96E-06     0.009037    -0.020810
0.14084    -0.000593    -0.013684     0.016877
-1.96E-06     0.001460    -0.015071
0.28169    -0.000593    -0.013684     0.016877
-1.96E-06    -0.005117    -0.009333
0.42253    -0.000593    -0.013684     0.016877
-1.96E-06    -0.012195    -0.003595
0.56338    -0.000593    -0.013684     0.016877
-1.96E-06    -0.019272     0.002144

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.012506     0.071787    -0.084683
 8.38E-06    -0.047004     0.137290
0.14084     0.012506     0.071787    -0.084683
 8.38E-06    -0.011492     0.107186
0.28169     0.012506     0.071787    -0.084683
 8.38E-06     0.024019     0.077083
0.42253     0.012506     0.071787    -0.084683
 8.38E-06     0.059531     0.046979
0.56338     0.012506     0.071787    -0.084683
 8.38E-06     0.095042     0.016875

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.012333     0.003480     0.576290
-2.40E-05     0.323697    -0.060866
0.14084     0.012333     0.003480     0.576290
-2.40E-05     0.082032    -0.062325
0.28169     0.012333     0.003480     0.576290
-2.40E-05    -0.159634    -0.063785
0.42253     0.012333     0.003480     0.576290
-2.40E-05    -0.401299    -0.065244
0.56338     0.012333     0.003480     0.576290
-2.40E-05    -0.642965    -0.066704

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.038294    -0.204598    -0.550673
 1.85E-05    -0.309178    -0.263755
0.14084    -0.038294    -0.204598    -0.550673
 1.85E-05    -0.078255    -0.177958
0.28169    -0.038294    -0.204598    -0.550673
 1.85E-05     0.152668    -0.092160
0.42253    -0.038294    -0.204598    -0.550673
 1.85E-05     0.383591    -0.006362
0.56338    -0.038294    -0.204598    -0.550673
 1.85E-05     0.614514     0.079435

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.046652     0.151052     0.030970
 2.19E-07     0.016729     0.216545
0.14084     0.046652     0.151052     0.030970
 2.19E-07     0.003742     0.152202
0.28169     0.046652     0.151052     0.030970
 2.19E-07    -0.009245     0.089858
0.42253     0.046652     0.151052     0.030970
 2.19E-07    -0.022233     0.026515
0.56338     0.046652     0.151052     0.030970
 2.19E-07    -0.035220    -0.036828

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.032605    -0.008037     0.011219
-1.18E-06     0.006719    -0.008404
0.14084    -0.032605    -0.008037     0.011219
-1.18E-06     0.002014    -0.005034
0.28169    -0.032605    -0.008037     0.011219
-1.18E-06    -0.002691    -0.001663
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                441

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.42253    -0.032605    -0.008037     0.011219
-1.18E-06    -0.007396     0.001707
0.56338    -0.032605    -0.008037     0.011219
-1.18E-06    -0.012101     0.005077

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.058392     0.140848     0.624137
-2.57E-05     0.349463     0.134869
0.14084     0.058392     0.140848     0.624137
-2.57E-05     0.087733     0.075805
0.28169     0.058392     0.140848     0.624137
-2.57E-05    -0.173997     0.016741
0.42253     0.058392     0.140848     0.624137
-2.57E-05    -0.435726    -0.042324
0.56338     0.058392     0.140848     0.624137
-2.57E-05    -0.697456    -0.101388

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.058392    -0.140848    -0.624137
 2.57E-05    -0.349463    -0.134869
0.14084    -0.058392    -0.140848    -0.624137
 2.57E-05    -0.087733    -0.075805
0.28169    -0.058392    -0.140848    -0.624137
 2.57E-05     0.173997    -0.016741
0.42253    -0.058392    -0.140848    -0.624137
 2.57E-05     0.435726     0.042324
0.56338    -0.058392    -0.140848    -0.624137
 2.57E-05     0.697456     0.101388

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.058392     0.151052     0.624137
 2.57E-05     0.349463     0.216545
0.14084     0.058392     0.151052     0.624137
 2.57E-05     0.087733     0.153202
0.28169     0.058392     0.151052     0.624137
 2.57E-05     0.173997     0.089858
0.42253     0.058392     0.151052     0.624137
 2.57E-05     0.435726     0.046979
0.56338     0.058392     0.151052     0.624137
 2.57E-05     0.697456     0.101388

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.058392    -0.204598    -0.624137
-2.57E-05    -0.349463    -0.263755
0.14084    -0.058392    -0.204598    -0.624137
-2.57E-05    -0.087733    -0.177958
0.28169    -0.058392    -0.204598    -0.624137
-2.57E-05    -0.173997    -0.092160
0.42253    -0.058392    -0.204598    -0.624137
-2.57E-05    -0.435726    -0.065244
0.56338    -0.058392    -0.204598    -0.624137
-2.57E-05    -0.697456    -0.101388

 ELEM      214 ================== LENGTH
=     2.977350

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.43663     0.000597     0.001266     0.025338
-9.97E-08     0.028205    -0.005183
0.57747     0.000597     0.001266     0.025338
-9.97E-08     0.017580    -0.005714
0.71831     0.000597     0.001266     0.025338
-9.97E-08     0.006955    -0.006245
0.85916     0.000597     0.001266     0.025338
-9.97E-08    -0.003671    -0.006776
1.00000     0.000597     0.001266     0.025338
-9.97E-08    -0.014296    -0.007307
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                442

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------
```

REL DIST P V2 V3
T M2 M3
0.43663 -0.001081 -0.003284 -0.115315
4.11E-08 -0.120501 0.052323
0.57747 -0.001081 -0.003284 -0.115315
4.11E-08 -0.081145 0.053700
0.71831 -0.001081 -0.003284 -0.115315
4.11E-08 -0.032789 0.055077
0.85916 -0.001081 -0.003284 -0.115315
4.11E-08 0.015566 0.056454
1.00000 -0.001081 -0.003284 -0.115315
4.11E-08 0.063922 0.057831

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.044285 0.163005 0.567312
4.77E-05 0.635195 0.448602
0.57747 0.044285 0.163005 0.567312
4.77E-05 0.397300 0.380248
0.71831 0.044285 0.163005 0.567312
4.77E-05 0.159405 0.311894
0.85916 0.044285 0.163005 0.567312
4.77E-05 -0.078490 0.243540
1.00000 0.044285 0.163005 0.567312
4.77E-05 -0.316385 0.175186

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.072616 -0.373484 -0.465956
-4.96E-05 -0.521322 -1.189164
0.57747 -0.072616 -0.373484 -0.465956
-4.96E-05 -0.325930 -1.032548
0.71831 -0.072616 -0.373484 -0.465956
-4.96E-05 -0.130537 -0.875932
0.85916 -0.072616 -0.373484 -0.465956
-4.96E-05 0.064856 -0.719316
1.00000 -0.072616 -0.373484 -0.465956
-4.96E-05 0.260249 -0.562700

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.064428 0.223953 -0.035396
1.32E-06 -0.039478 0.740866
0.57747 0.064428 0.223953 -0.035396
1.32E-06 -0.024635 0.646954
0.71831 0.064428 0.223953 -0.035396
1.32E-06 -0.009792 0.553042
0.85916 0.064428 0.223953 -0.035396
1.32E-06 0.005050 0.459130
1.00000 0.064428 0.223953 -0.035396
1.32E-06 0.019893 0.365218

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.035614 -0.011456 0.024016
5.96E-07 0.026901 -0.047444
0.57747 -0.035614 -0.011456 0.024016
5.96E-07 0.016830 -0.042640
0.71831 -0.035614 -0.011456 0.024016
5.96E-07 0.006759 -0.037836
0.85916 -0.035614 -0.011456 0.024016
5.96E-07 -0.003312 -0.033032
1.00000 -0.035614 -0.011456 0.024016
5.96E-07 -0.013383 -0.028228

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.109311 0.388224 0.557254
4.89E-05 0.623922 1.184285
0.57747 0.109311 0.388224 0.557254
4.89E-05 0.390245 1.021488
0.71831 0.109311 0.388224 0.557254
4.89E-05 0.156567 0.858691
0.85916 0.109311 0.388224 0.557254
4.89E-05 -0.077110 0.695894
1.00000 0.109311 0.388224 0.557254
4.89E-05 -0.310788 0.533097

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 443
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.109311 -0.388224 -0.557254
-4.89E-05 -0.623922 -1.184285
0.57747 -0.109311 -0.388224 -0.557254
-4.89E-05 -0.390245 -1.021488
0.71831 -0.109311 -0.388224 -0.557254
-4.89E-05 -0.156567 -0.858691
0.85916 -0.109311 -0.388224 -0.557254
-4.89E-05 0.077110 -0.695894
1.00000 -0.109311 -0.388224 -0.557254
-4.89E-05 0.310788 -0.533097

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 0.109311 0.388224 0.567312
4.89E-05 0.635195 1.184285
0.57747 0.109311 0.388224 0.567312
4.89E-05 0.397300 1.021488
0.71831 0.109311 0.388224 0.567312
4.89E-05 0.159405 0.858691
0.85916 0.109311 0.388224 0.567312
4.89E-05 0.077110 0.695894
1.00000 0.109311 0.388224 0.567312
4.89E-05 0.310788 0.533097

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -0.109311 -0.388224 -0.557254
-4.96E-05 -0.623922 -1.189164
0.57747 -0.109311 -0.388224 -0.557254
-4.96E-05 -0.390245 -1.032548
0.71831 -0.109311 -0.388224 -0.557254
-4.96E-05 -0.156567 -0.875932
0.85916 -0.109311 -0.388224 -0.557254
-4.96E-05 -0.078490 -0.719316
1.00000 -0.109311 -0.388224 -0.557254
-4.96E-05 -0.316385 -0.562700

ELEM 215 ========== LENGTH = 2.977410

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.001634 0.000726 0.023958
-2.43E-06 0.013119 -0.008037
0.14084 0.001634 0.000726 0.023958
-2.43E-06 0.003072 -0.008341
0.28169 0.001634 0.000726 0.023958
-2.43E-06 -0.006975 -0.008645
0.42253 0.001634 0.000726 0.023958
-2.43E-06 -0.017022 -0.008950
0.56338 0.001634 0.000726 0.023958
-2.43E-06 -0.027069 -0.009254

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.006177 -0.000758 -0.117043
1.07E-05 -0.065289 0.061235
0.14084 -0.006177 -0.000758 -0.117043
1.07E-05 -0.016207 0.061553
0.28169 -0.006177 -0.000758 -0.117043
1.07E-05 0.032875 0.061871
0.42253 -0.006177 -0.000758 -0.117043
1.07E-05 0.081957 0.062188
0.56338 -0.006177 -0.000758 -0.117043
1.07E-05 0.131040 0.062506

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.035912 0.243696 0.578287
-2.26E-05 0.325080 0.177368
0.14084 0.035912 0.243696 0.578287
-2.26E-05 0.082574 0.075173
0.28169 0.035912 0.243696 0.578287
-2.26E-05 -0.159932 -0.027021

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 444
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42253 0.035912 0.243696 0.578287
-2.26E-05 -0.402439 -0.123215
0.56338 0.035912 0.243696 0.578287
-2.26E-05 -0.644945 -0.231410

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.040317 -0.565053 -0.473610
8.52E-06 -0.266188 -0.576486
0.14084 -0.040317 -0.565053 -0.473610
8.52E-06 -0.067578 -0.339530
0.28169 -0.040317 -0.565053 -0.473610
8.52E-06 0.131031 -0.102573
0.42253 -0.040317 -0.565053 -0.473610
8.52E-06 0.329641 0.134383
0.56338 -0.040317 -0.565053 -0.473610
8.52E-06 0.528250 0.371340

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.040121 0.357711 -0.036628
8.82E-06 -0.020947 0.376189
0.14084 0.040121 0.357711 -0.036628
8.82E-06 -0.005587 0.226182
0.28169 0.040121 0.357711 -0.036628
8.82E-06 0.009773 0.076175
0.42253 0.040121 0.357711 -0.036628
8.82E-06 0.025133 -0.073832
0.56338 0.040121 0.357711 -0.036628
8.82E-06 0.040494 -0.223839

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.031172 -0.036322 0.025035
-3.07E-06 0.014225 -0.030269
0.14084 -0.031172 -0.036322 0.025035
-3.07E-06 0.003726 -0.015038
0.28169 -0.031172 -0.036322 0.025035
-3.07E-06 -0.006773 0.000194
0.42253 -0.031172 -0.036322 0.025035
-3.07E-06 -0.017271 0.015425
0.56338 -0.031172 -0.036322 0.025035
-3.07E-06 -0.027770 0.030657

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.077666 0.602132 0.565617
-1.62E-05 0.317252 0.545520
0.14084 0.077666 0.602132 0.565617
-1.62E-05 0.080059 0.293015
0.28169 0.077666 0.602132 0.565617
-1.62E-05 -0.157134 0.040509
0.42253 0.077666 0.602132 0.565617
-1.62E-05 -0.394327 -0.211997
0.56338 0.077666 0.602132 0.565617
-1.62E-05 -0.631520 -0.464502

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.077666 -0.602132 -0.565617
1.62E-05 -0.317252 -0.545520
0.14084 -0.077666 -0.602132 -0.565617
1.62E-05 -0.080059 -0.293015
0.28169 -0.077666 -0.602132 -0.565617
1.62E-05 0.157134 -0.040509
0.42253 -0.077666 -0.602132 -0.565617
1.62E-05 0.394327 0.211997
0.56338 -0.077666 -0.602132 -0.565617
1.62E-05 0.631520 0.464502

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.077666 0.602132 0.578287
1.62E-05 0.325080 0.545520

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 445
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 0.077666 0.602132 0.578287
1.62E-05 0.082574 0.293015
0.28169 0.077666 0.602132 0.578287
1.62E-05 0.157134 0.076175
0.42253 0.077666 0.602132 0.578287
1.62E-05 0.394327 0.211997
0.56338 0.077666 0.602132 0.578287
1.62E-05 0.631520 0.464502

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.077666 -0.602132 -0.565617
-2.26E-05 -0.317252 -0.576486
0.14084 -0.077666 -0.602132 -0.565617
-2.26E-05 -0.080059 -0.339530
0.28169 -0.077666 -0.602132 -0.565617
-2.26E-05 0.159932 -0.102573
0.42253 -0.077666 -0.602132 -0.565617
-2.26E-05 -0.402439 -0.211997
0.56338 -0.077666 -0.602132 -0.565617
-2.26E-05 -0.644945 -0.464502

ELEM 216 ========== LENGTH = 2.977439

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.000431 0.008436 0.027387
7.49E-07 0.030537 0.019833
0.57746 -0.000431 0.008436 0.027387
7.49E-07 0.019052 0.016295
0.71831 -0.000431 0.008436 0.027387
7.49E-07 0.007567 0.012758
0.85915 -0.000431 0.008436 0.027387
7.49E-07 -0.003918 0.009220
1.00000 -0.000431 0.008436 0.027387
7.49E-07 -0.015403 0.005682

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -2.75E-05 -0.040471 -0.126232
-3.95E-06 -0.141609 -0.080937
0.57746 -2.75E-05 -0.040471 -0.126232
-3.95E-06 -0.088672 -0.063965
0.71831 -2.75E-05 -0.040471 -0.126232
-3.95E-06 -0.035736 -0.046994
0.85915 -2.75E-05 -0.040471 -0.126232
-3.95E-06 0.017201 -0.030022
1.00000 -2.75E-05 -0.040471 -0.126232
-3.95E-06 0.070138 -0.013050

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.041447 0.476367 0.534674
5.04E-05 0.598557 1.103797
0.57746 -0.041447 0.476367 0.534674
5.04E-05 0.374336 0.904028
0.71831 -0.041447 0.476367 0.534674
5.04E-05 0.150115 0.704258
0.85915 -0.041447 0.476367 0.534674
5.04E-05 -0.074105 0.504489
1.00000 -0.041447 0.476367 0.534674
5.04E-05 -0.298326 0.304719

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.093836 -0.955426 -0.365558
-4.71E-05 -0.409043 -2.245222
0.57746 0.093836 -0.955426 -0.365558
-4.71E-05 0.255743 -1.844554
0.71831 0.093836 -0.955426 -0.365558
-4.71E-05 -0.102442 -1.443887
0.85915 0.093836 -0.955426 -0.365558
-4.71E-05 0.050858 -1.043220
1.00000 0.093836 -0.955426 -0.365558
-4.71E-05 0.204159 -0.642552

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 446
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.031877 0.567678 -0.110241
-9.51E-07 -0.123042 1.315187
0.57746 -0.031877 0.567678 -0.110241
-9.51E-07 -0.076812 1.077126
0.71831 -0.031877 0.567678 -0.110241
-9.51E-07 -0.030581 0.839064
0.85915 -0.031877 0.567678 -0.110241
-9.51E-07 0.015649 0.601003
1.00000 -0.031877 0.567678 -0.110241
-9.51E-07 0.061880 0.362941

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.020053 -0.056585 0.039971
7.98E-07 0.044601 -0.112658
0.57746 -0.020053 -0.056585 0.039971
7.98E-07 0.027839 -0.088929
0.71831 -0.020053 -0.056585 0.039971
7.98E-07 0.011076 -0.065200
0.85915 -0.020053 -0.056585 0.039971
7.98E-07 -0.005686 -0.041471
1.00000 -0.020053 -0.056585 0.039971
7.98E-07 -0.022448 -0.017741

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.073756 1.052482 0.451820
5.02E-05 0.506051 2.438817
0.57746 -0.073756 1.052482 0.451820
5.02E-05 0.316576 1.997449
0.71831 -0.073756 1.052482 0.451820
5.02E-05 0.127101 1.556080
0.85915 -0.073756 1.052482 0.451820
5.02E-05 -0.062374 1.114712
1.00000 -0.073756 1.052482 0.451820
5.02E-05 -0.251849 0.673343

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.073756 -1.052482 -0.451820
-5.02E-05 -0.506051 -2.438817
0.57746 0.073756 -1.052482 -0.451820
-5.02E-05 -0.316576 -1.997449
0.71831 0.073756 -1.052482 -0.451820
-5.02E-05 -0.127101 -1.556080
0.85915 0.073756 -1.052482 -0.451820
-5.02E-05 0.062374 -1.114712
1.00000 0.073756 -1.052482 -0.451820
-5.02E-05 0.251849 -0.673343

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43662 0.093836 1.052482 0.534674
5.04E-05 0.598557 2.438817
0.57746 0.093836 1.052482 0.534674
5.04E-05 0.374336 1.997449
0.71831 0.093836 1.052482 0.534674
5.04E-05 0.150115 1.556080
0.85915 0.093836 1.052482 0.534674
5.04E-05 0.062374 1.114712
1.00000 0.093836 1.052482 0.534674
5.04E-05 0.251849 0.673343

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43662 -0.073756 -1.052482 -0.451820
-5.02E-05 -0.506051 -2.438817
0.57746 -0.073756 -1.052482 -0.451820
-5.02E-05 -0.316576 -1.997449
0.71831 -0.073756 -1.052482 -0.451820
-5.02E-05 -0.127101 -1.556080
0.85915 -0.073756 -1.052482 -0.451820
-5.02E-05 -0.074105 -1.114712
1.00000 -0.073756 -1.052482 -0.451820
-5.02E-05 -0.298326 -0.673343

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 447
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 217 ========== LENGTH = 2.977508

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.000770 0.016536 0.026672
-3.76E-06 0.014773 0.005578
0.14085 -0.000770 0.016536 0.026672
-3.76E-06 0.003587 -0.001357
0.28170 -0.000770 0.016536 0.026672
-3.76E-06 -0.007599 -0.008291
0.42254 -0.000770 0.016536 0.026672
-3.76E-06 -0.018784 -0.015226
0.56339 -0.000770 0.016536 0.026672
-3.76E-06 -0.029970 -0.022161

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.001405 -0.078249 -0.129015
1.71E-05 -0.072332 -0.012562
0.14085 0.001405 -0.078249 -0.129015
1.71E-05 -0.018226 0.020254
0.28170 0.001405 -0.078249 -0.129015
1.71E-05 0.035880 0.053070
0.42254 0.001405 -0.078249 -0.129015
1.71E-05 0.089986 0.085886
0.56339 0.001405 -0.078249 -0.129015
1.71E-05 0.144092 0.118701

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.050722 0.465439 0.547155
-2.74E-05 0.308079 0.310447
0.14085 -0.050722 0.465439 0.547155
-2.74E-05 0.078615 0.115253
0.28170 -0.050722 0.465439 0.547155
-2.74E-05 -0.150850 -0.079941
0.42254 -0.050722 0.465439 0.547155
-2.74E-05 -0.380314 -0.275136
0.56339 -0.050722 0.465439 0.547155
-2.74E-05 -0.609778 -0.470330

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.111631 -0.832785 -0.373722
1.88E-06 -0.210248 -0.656958
0.14085 0.111631 -0.832785 -0.373722
1.88E-06 -0.053518 -0.307707
0.28170 0.111631 -0.832785 -0.373722
1.88E-06 0.103213 0.041543
0.42254 0.111631 -0.832785 -0.373722
1.88E-06 0.259943 0.390794
0.56339 0.111631 -0.832785 -0.373722
1.88E-06 0.416673 0.740045

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.043512 0.466827 -0.111280
1.72E-05 -0.062909 0.373134
0.14085 -0.043512 0.466827 -0.111280
1.72E-05 -0.016241 0.177358
0.28170 -0.043512 0.466827 -0.111280
1.72E-05 0.030427 -0.018419
0.42254 -0.043512 0.466827 -0.111280
1.72E-05 0.077096 -0.214195
0.56339 -0.043512 0.466827 -0.111280
1.72E-05 0.123764 -0.409971

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.018032 -0.037767 0.040189
-5.05E-06 0.022637 -0.019640
0.14085 -0.018032 -0.037767 0.040189
-5.05E-06 0.005783 -0.003801
0.28170 -0.018032 -0.037767 0.040189
-5.05E-06 -0.011072 0.012038

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 448
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42254 -0.018032 -0.037767 0.040189
-5.05E-06 -0.027926 0.027877
0.56339 -0.018032 -0.037767 0.040189
-5.05E-06 -0.044781 0.043715

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.095004 0.948801 0.462547
-1.39E-05 0.259943 0.689160
0.14085 -0.095004 0.948801 0.462547
-1.39E-05 0.065961 0.291254
0.28170 -0.095004 0.948801 0.462547
-1.39E-05 -0.128021 -0.106651
0.42254 -0.095004 0.948801 0.462547
-1.39E-05 -0.322002 -0.504557
0.56339 -0.095004 0.948801 0.462547
-1.39E-05 -0.515984 -0.902462

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.095004 -0.948801 -0.462547
1.39E-05 -0.259943 -0.689160
0.14085 0.095004 -0.948801 -0.462547
1.39E-05 -0.065961 -0.291254
0.28170 0.095004 -0.948801 -0.462547
1.39E-05 0.128021 0.106651
0.42254 0.095004 -0.948801 -0.462547
1.39E-05 0.322002 0.504557
0.56339 0.095004 -0.948801 -0.462547
1.39E-05 0.515984 0.902462

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.111631 0.948801 0.547155
1.72E-05 0.308079 0.689160
0.14085 0.111631 0.948801 0.547155
1.72E-05 0.078615 0.291254
0.28170 0.111631 0.948801 0.547155
1.72E-05 0.128021 0.106651
0.42254 0.111631 0.948801 0.547155
1.72E-05 0.322002 0.504557
0.56339 0.111631 0.948801 0.547155
1.72E-05 0.515984 0.902462

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.095004 -0.948801 -0.462547
-2.74E-05 -0.259943 -0.689160
0.14085 -0.095004 -0.948801 -0.462547
-2.74E-05 -0.065961 -0.307707
0.28170 -0.095004 -0.948801 -0.462547
-2.74E-05 -0.150850 -0.106651
0.42254 -0.095004 -0.948801 -0.462547
-2.74E-05 -0.380314 -0.504557
0.56339 -0.095004 -0.948801 -0.462547
-2.74E-05 -0.609778 -0.902462

ELEM 218 ========== LENGTH = 2.977622

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43659 -0.008657 0.022618 0.026003
5.95E-08 0.029090 0.048074
0.57744 -0.008657 0.022618 0.026003
5.95E-08 0.018184 0.038588
0.71830 -0.008657 0.022618 0.026003
5.95E-08 0.007279 0.029101
0.85915 -0.008657 0.022618 0.026003
5.95E-08 -0.003627 0.019615
1.00000 -0.008657 0.022618 0.026003

5.95E-08 -0.014533 0.010129
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
449

F R A M E E L E M E N T I N T E R N A
L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.037658	-0.111134	-0.120550
-7.08E-07	-0.135509	-0.226656	
0.57744	0.037658	-0.111134	-0.120550
-7.08E-07	-0.084950	-0.180046	
0.71830	0.037658	-0.111134	-0.120550
-7.08E-07	-0.034390	-0.133435	
0.85915	0.037658	-0.111134	-0.120550
-7.08E-07	0.016169	-0.086825	
1.00000	0.037658	-0.111134	-0.120550
-7.08E-07	0.066728	-0.040214	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-0.306276	0.809677	0.473626
4.12E-05	0.531556	1.822247	
0.57744	-0.306276	0.809677	0.473626
4.12E-05	0.332915	1.482664	
0.71830	-0.306276	0.809677	0.473626
4.12E-05	0.134273	1.143081	
0.85915	-0.306276	0.809677	0.473626
4.12E-05	-0.064368	0.803498	
1.00000	-0.306276	0.809677	0.473626
4.12E-05	-0.263010	0.463915	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.545709	-1.471662	-0.245966
-3.62E-05	-0.276227	-3.377668	
0.57744	0.545709	-1.471662	-0.245966
-3.62E-05	-0.173068	-2.760444	
0.71830	0.545709	-1.471662	-0.245966
-3.62E-05	-0.069908	-2.143221	
0.85915	0.545709	-1.471662	-0.245966
-3.62E-05	0.033251	-1.525998	
1.00000	0.545709	-1.471662	-0.245966
-3.62E-05	0.136411	-0.908775	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-0.289609	0.827353	-0.188989
-5.57E-06	-0.211383	1.898297	
0.57744	-0.289609	0.827353	-0.188989
-5.57E-06	-0.132120	1.551301	
0.71830	-0.289609	0.827353	-0.188989
-5.57E-06	-0.052857	1.204304	
0.85915	-0.289609	0.827353	-0.188989
-5.57E-06	0.026406	0.857308	
1.00000	-0.289609	0.827353	-0.188989
-5.57E-06	0.105669	0.510312	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.021176	-0.076852	0.055876
1.21E-06	0.062473	-0.164295	
0.57744	0.021176	-0.076852	0.055876
1.21E-06	0.039038	-0.132063	
0.71830	0.021176	-0.076852	0.055876
1.21E-06	0.015604	-0.099830	
0.85915	0.021176	-0.076852	0.055876
1.21E-06	-0.007831	-0.067598	
1.00000	0.021176	-0.076852	0.055876
1.21E-06	-0.031265	-0.035366	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-0.604542	1.659649	0.310640
3.56E-05	0.349263	3.768618	
0.57744	-0.604542	1.659649	0.310640
3.56E-05	0.218979	3.072552	
0.71830	-0.604542	1.659649	0.310640
3.56E-05	0.088695	2.376487	
0.85915	-0.604542	1.659649	0.310640
3.56E-05	-0.041589	1.680421	
1.00000	-0.604542	1.659649	0.310640
3.56E-05	-0.171873	-0.984355	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
450

F R A M E E L E M E N T I N T E R N A
L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.604542	-1.659649	-0.310640
-3.56E-05	-0.349263	-3.768618	
0.57744	0.604542	-1.659649	-0.310640
-3.56E-05	-0.218979	-3.072552	
0.71830	0.604542	-1.659649	-0.310640
-3.56E-05	-0.088695	-2.376487	
0.85915	0.604542	-1.659649	-0.310640
-3.56E-05	0.041589	-1.680421	
1.00000	0.604542	-1.659649	-0.310640
-3.56E-05	0.171873	-0.984355	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.604542	1.659649	0.473626
4.12E-05	0.531556	3.768618	
0.57744	0.604542	1.659649	0.473626
4.12E-05	0.332915	3.072552	
0.71830	0.604542	1.659649	0.473626
4.12E-05	0.134273	2.376487	
0.85915	0.604542	1.659649	0.473626
4.12E-05	0.041589	1.680421	
1.00000	0.604542	1.659649	0.473626
4.12E-05	0.171873	0.984355	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-0.604542	-1.659649	-0.310640
-3.62E-05	-0.349263	-3.768618	
0.57744	-0.604542	-1.659649	-0.310640
-3.62E-05	-0.218979	-3.072552	
0.71830	-0.604542	-1.659649	-0.310640
-3.62E-05	-0.088695	-2.376487	
0.85915	-0.604542	-1.659649	-0.310640
-3.62E-05	-0.064368	-1.680421	
1.00000	-0.604542	-1.659649	-0.310640
-3.62E-05	-0.263010	-0.984355	

ELEM 219 ========== LENGTH
= 2.977668

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.009594	0.025995	0.025764
-3.10E-06	0.014291	0.010447	
0.14085	-0.009594	0.025995	0.025764
-3.10E-06	0.003485	-0.000455	
0.28171	-0.009594	0.025995	0.025764
-3.10E-06	-0.007321	-0.011358	
0.42256	-0.009594	0.025995	0.025764
-3.10E-06	-0.018127	-0.022261	
0.56342	-0.009594	0.025995	0.025764
-3.10E-06	-0.028933	-0.033163	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.041997	-0.126904	-0.123998
1.41E-05	-0.069422	-0.041698	
0.14085	0.041997	-0.126904	-0.123998
1.41E-05	-0.017415	0.011528	
0.28171	0.041997	-0.126904	-0.123998
1.41E-05	0.034592	0.064754	
0.42256	0.041997	-0.126904	-0.123998
1.41E-05	0.086599	0.117980	
0.56342	0.041997	-0.126904	-0.123998
1.41E-05	0.138606	0.171205	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.329682	0.878629	0.488080
-2.17E-05	0.274114	0.473468	
0.14085	-0.329682	0.878629	0.488080
-2.17E-05	0.069405	0.104956	
0.28171	-0.329682	0.878629	0.488080
-2.17E-05	-0.135304	-0.263556	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
451

F R A M E E L E M E N T I N T E R N A
L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42256	-0.329682	0.878629	0.488080
-2.17E-05	-0.340013	-0.632068	
0.56342	-0.329682	0.878629	0.488080
-2.17E-05	-0.544722	-1.000579	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.583556	-1.588642	-0.256789
-5.45E-06	-0.144270	-0.926871	
0.14085	0.583556	-1.588642	-0.256789
-5.45E-06	-0.036568	-0.260568	
0.28171	0.583556	-1.588642	-0.256789
-5.45E-06	0.071134	0.405736	
0.42256	0.583556	-1.588642	-0.256789
-5.45E-06	0.178835	1.072039	
0.56342	0.583556	-1.588642	-0.256789
-5.45E-06	0.286537	1.738342	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.311026	0.901389	-0.188875
2.29E-05	-0.105970	0.522246	
0.14085	-0.311026	0.901389	-0.188875
2.29E-05	-0.026752	0.144188	
0.28171	-0.311026	0.901389	-0.188875
2.29E-05	0.052465	-0.233870	
0.42256	-0.311026	0.901389	-0.188875
2.29E-05	0.131682	-0.611928	
0.56342	-0.311026	0.901389	-0.188875
2.29E-05	0.210900	-0.989986	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.024750	-0.090467	0.055818
-6.80E-06	0.031257	-0.037592	
0.14085	0.024750	-0.090467	0.055818
-6.80E-06	0.007846	0.000351	
0.28171	0.024750	-0.090467	0.055818
-6.80E-06	-0.015565	0.038294	
0.42256	0.024750	-0.090467	0.055818
-6.80E-06	-0.038976	0.076238	
0.56342	0.024750	-0.090467	0.055818
-6.80E-06	-0.062387	0.114181	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.650302	1.806013	0.324970
-1.85E-06	0.182435	1.006161	
0.14085	-0.650302	1.806013	0.324970
-1.85E-06	0.046137	0.248689	
0.28171	-0.650302	1.806013	0.324970
-1.85E-06	-0.090160	-0.508784	
0.42256	-0.650302	1.806013	0.324970
-1.85E-06	-0.226458	-1.266256	
0.56342	-0.650302	1.806013	0.324970
-1.85E-06	-0.362756	-2.023728	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.650302	-1.806013	-0.324970
1.85E-06	0.182435	-1.006161	
0.14085	0.650302	-1.806013	-0.324970
1.85E-06	-0.046137	-0.248689	
0.28171	0.650302	-1.806013	-0.324970
1.85E-06	0.090160	0.508784	
0.42256	0.650302	-1.806013	-0.324970
1.85E-06	0.226458	1.266256	
0.56342	0.650302	-1.806013	-0.324970
1.85E-06	0.362756	2.023728	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.650302	1.806013	0.488080
2.29E-05	0.274114	1.006161	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
452

F R A M E E L E M E N T I N T E R N A
L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	0.650302	1.806013	0.488080
2.29E-05	0.069405	0.248689	
0.28171	0.650302	1.806013	0.488080
2.29E-05	0.090160	0.508784	
0.42256	0.650302	1.806013	0.488080
2.29E-05	0.226458	1.266256	
0.56342	0.650302	1.806013	0.488080
2.29E-05	0.362756	2.023728	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.650302	-1.806013	-0.324970
-2.17E-05	-0.182435	-1.006161	
0.14085	-0.650302	-1.806013	-0.324970
-2.17E-05	-0.046137	-0.260568	
0.28171	-0.650302	-1.806013	-0.324970
-2.17E-05	-0.135304	-0.508784	
0.42256	-0.650302	-1.806013	-0.324970
-2.17E-05	-0.340013	-1.266256	
0.56342	-0.650302	-1.806013	-0.324970
-2.17E-05	-0.544722	-2.023728	

ELEM 220 ========== LENGTH
= 2.977852

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-0.025155	0.034975	0.023865
1.28E-07	0.025821	0.072675	
0.57742	-0.025155	0.034975	0.023865
1.28E-07	0.015811	0.058004	
0.71828	-0.025155	0.034975	0.023865
1.28E-07	0.005800	0.043333	
0.85914	-0.025155	0.034975	0.023865
1.28E-07	-0.004210	0.028662	
1.00000	-0.025155	0.034975	0.023865
1.28E-07	-0.014221	0.013991	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43656	0.116118	-0.175016	-0.110946
-9.47E-07	-0.120453	-0.355628	
0.57742	0.116118	-0.175016	-0.110946
-9.47E-07	-0.073915	-0.282215	
0.71828	0.116118	-0.175016	-0.110946
-9.47E-07	-0.027377	-0.208802	
0.85914	0.116118	-0.175016	-0.110946
-9.47E-07	0.019160	-0.135389	
1.00000	0.116118	-0.175016	-0.110946
-9.47E-07	0.065698	-0.061976	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-0.792517	1.116166	0.422449
3.31E-05	0.458143	2.358891	
0.57742	-0.792517	1.116166	0.422449
3.31E-05	0.280941	1.890701	
0.71828	-0.792517	1.116166	0.422449
3.31E-05	0.103739	1.422511	
0.85914	-0.792517	1.116166	0.422449
3.31E-05	-0.073463	0.954320	
1.00000	-0.792517	1.116166	0.422449
3.31E-05	-0.250665	0.486130	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43656	1.298598	-1.995816	-0.120408
-2.21E-05	-0.130386	-4.240626	
0.57742	1.298598	-1.995816	-0.120408
-2.21E-05	-0.079879	-3.403455	
0.71828	1.298598	-1.995816	-0.120408
-2.21E-05	-0.029372	-2.566283	
0.85914	1.298598	-1.995816	-0.120408
-2.21E-05	0.021134	-1.729112	
1.00000	1.298598	-1.995816	-0.120408
-2.21E-05	0.071641	-0.891941	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
453

F R A M E E L E M E N T I N T E R N A
L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-0.675826	1.122661	-0.292520
-1.17E-05	-0.317193	2.361959	
0.57742	-0.675826	1.122661	-0.292520
-1.17E-05	-0.194491	1.891044	
0.71828	-0.675826	1.122661	-0.292520
-1.17E-05	-0.071790	1.420129	
0.85914	-0.675826	1.122661	-0.292520
-1.17E-05	0.050912	0.949215	
1.00000	-0.675826	1.122661	-0.292520
-1.17E-05	0.173613	0.478300	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43656	0.078783	-0.102969	0.077560
1.47E-06	0.084067	-0.197271	
0.57742	0.078783	-0.102969	0.077560
1.47E-06	0.051534	-0.154079	
0.71828	0.078783	-0.102969	0.077560
1.47E-06	0.019000	-0.110887	
0.85914	0.078783	-0.102969	0.077560
1.47E-06	-0.013533	-0.067696	
1.00000	0.078783	-0.102969	0.077560
1.47E-06	-0.046067	-0.024504	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-1.493499	2.273802	0.153794
2.16E-05	0.166772	4.793525	
0.57742	-1.493499	2.273802	0.153794
2.16E-05	0.102261	3.839749	
0.71828	-1.493499	2.273802	0.153794
2.16E-05	0.037750	2.885973	
0.85914	-1.493499	2.273802	0.153794
2.16E-05	-0.026761	1.932197	
1.00000	-1.493499	2.273802	0.153794
2.16E-05	-0.091272	0.978422	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43656	1.493499	-2.273802	-0.153794
-2.16E-05	-0.166772	-4.793525	
0.57742	1.493499	-2.273802	-0.153794
-2.16E-05	-0.102261	-3.839749	
0.71828	1.493499	-2.273802	-0.153794
-2.16E-05	-0.037750	-2.885973	
0.85914	1.493499	-2.273802	-0.153794
-2.16E-05	0.026761	-1.932197	
1.00000	1.493499	-2.273802	-0.153794
-2.16E-05	0.091272	-0.978422	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43656	1.493499	2.273802	0.422449
3.31E-05	0.458143	4.793525	
0.57742	1.493499	2.273802	0.422449
3.31E-05	0.280941	3.839749	
0.71828	1.493499	2.273802	0.422449
3.31E-05	0.103739	2.885973	
0.85914	1.493499	2.273802	0.422449
3.31E-05	0.050912	1.932197	
1.00000	1.493499	2.273802	0.422449
3.31E-05	0.173613	0.978422	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43656	-1.493499	-2.273802	-0.292520
-2.21E-05	-0.317193	-4.793525	
0.57742	-1.493499	-2.273802	-0.292520
-2.21E-05	-0.194491	-3.839749	
0.71828	-1.493499	-2.273802	-0.292520
-2.21E-05	-0.071790	-2.885973	
0.85914	-1.493499	-2.273802	-0.292520
-2.21E-05	-0.073463	-1.932197	
1.00000	-1.493499	-2.273802	-0.292520
-2.21E-05	-0.250665	-0.978422	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
454

F R A M E E L E M E N T I N T E R N A
L F O R C E S

ELEM 221 ========== LENGTH
= 2.976914

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.022224	0.040128	0.023915
-3.02E-06	0.014207	0.014502	
0.14083	-0.022224	0.040128	0.023915
-3.02E-06	0.004182	-0.002321	
0.28165	-0.022224	0.040128	0.023915
-3.02E-06	-0.005844	-0.019144	
0.42248	-0.022224	0.040128	0.023915
-3.02E-06	-0.015870	-0.035967	
0.56331	-0.022224	0.040128	0.023915
-3.02E-06	-0.025896	-0.052790	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102273	-0.198949	-0.114547
1.38E-05	-0.068456	-0.064356	
0.14083	0.102273	-0.198949	-0.114547
1.38E-05	-0.020435	0.019049	
0.28165	0.102273	-0.198949	-0.114547
1.38E-05	0.027587	0.102454	
0.42248	0.102273	-0.198949	-0.114547
1.38E-05	0.075608	0.185859	
0.56331	0.102273	-0.198949	-0.114547
1.38E-05	0.123630	0.269264	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.738424	1.156918	0.437121
-2.36E-05	0.261694	0.495190	
0.14083	-0.738424	1.156918	0.437121
-2.36E-05	0.078440	0.010177	
0.28165	-0.738424	1.156918	0.437121
-2.36E-05	-0.104814	-0.474836	
0.42248	-0.738424	1.156918	0.437121
-2.36E-05	-0.288068	-0.959849	
0.56331	-0.738424	1.156918	0.437121
-2.36E-05	-0.471322	-1.444862	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.314109	-2.029928	-0.130668
-6.92E-07	-0.078959	-0.990802	
0.14083	1.314109	-2.029928	-0.130668
-6.92E-07	-0.024179	-0.055599	
0.28165	1.314109	-2.029928	-0.130668
-6.92E-07	0.030601	0.795405	
0.42248	1.314109	-2.029928	-0.130668
-6.92E-07	0.085381	1.646409	
0.56331	1.314109	-2.029928	-0.130668
-6.92E-07	0.140160	2.497413	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.753020	1.138012	-0.293947
2.10E-05	-0.175013	0.487492	
0.14083	-0.753020	1.138012	-0.293947
2.10E-05	-0.051782	0.010404	
0.28165	-0.753020	1.138012	-0.293947
2.10E-05	0.071449	-0.466683	
0.42248	-0.753020	1.138012	-0.293947
2.10E-05	0.194680	-0.943770	
0.56331	-0.753020	1.138012	-0.293947
2.10E-05	0.317911	-1.420857	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.097287	-0.106181	0.078127
-7.56E-06	0.046528	-0.026225	
0.14083	0.097287	-0.106181	0.078127
-7.56E-06	0.013775	0.018289	
0.28165	0.097287	-0.106181	0.078127
-7.56E-06	-0.018978	0.062803	
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
455

F R A M E E L E M E N T I N T E R N A
L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42248	0.097287	-0.106181	0.078127
-7.56E-06	-0.051731	0.107317	
0.56331	0.097287	-0.106181	0.078127
-7.56E-06	-0.084484	0.151831	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.513669	2.335058	0.167089
-5.59E-06	0.100887	0.997184	
0.14083	-1.513669	2.335058	0.167089
-5.59E-06	0.030839	0.018261	
0.28165	-1.513669	2.335058	0.167089
-5.59E-06	-0.039209	0.960662	
0.42248	-1.513669	2.335058	0.167089
-5.59E-06	-0.109258	-1.939585	
0.56331	-1.513669	2.335058	0.167089
-5.59E-06	-0.179306	-2.918508	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.513669	-2.335058	-0.167089
5.59E-06	-0.100887	-0.997184	
0.14083	1.513669	-2.335058	-0.167089
5.59E-06	-0.030839	-0.018261	
0.28165	1.513669	-2.335058	-0.167089
5.59E-06	0.039209	0.960662	
0.42248	1.513669	-2.335058	-0.167089
5.59E-06	0.109258	1.939585	
0.56331	1.513669	-2.335058	-0.167089
5.59E-06	0.179306	2.918508	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.513669	2.335058	0.437121
2.10E-05	0.261694	0.997184	
0.14083	1.513669	2.335058	0.437121
2.10E-05	0.078440	0.019049	
0.28165	1.513669	2.335058	0.437121
2.10E-05	0.071449	0.960662	
0.42248	1.513669	2.335058	0.437121
2.10E-05	0.194680	1.939585	
0.56331	1.513669	2.335058	0.437121
2.10E-05	0.317911	2.918508	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.513669	-2.335058	-0.293947
-2.36E-05	-0.175013	-0.997184	
0.14083	-1.513669	-2.335058	-0.293947
-2.36E-05	-0.051782	-0.055599	
0.28165	-1.513669	-2.335058	-0.293947
-2.36E-05	-0.104814	-0.960662	
0.42248	-1.513669	-2.335058	-0.293947
-2.36E-05	-0.288068	-1.939585	
0.56331	-1.513669	-2.335058	-0.293947
-2.36E-05	-0.471322	-2.918508	

ELEM 222 ========== LENGTH
= 2.977081

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43667 -0.028064 0.028467 0.021442
-2.26E-07 -0.061163 0.061163
0.57750 -0.028064 0.028467 0.021442
-2.26E-07 0.013499 0.049228
0.71833 -0.028064 0.028467 0.021442
-2.26E-07 0.004509 0.037293
0.85917 -0.028064 0.028467 0.021442
-2.26E-07 -0.004480 0.025357
1.00000 -0.028064 0.028467 0.021442
-2.26E-07 -0.013470 0.013422

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43667 0.130606 -0.155076 -0.099592
8.24E-07 -0.104742 -0.320605
0.57750 0.130606 -0.155076 -0.099592
8.24E-07 -0.062986 -0.255586
0.71833 0.130606 -0.155076 -0.099592
8.24E-07 -0.021230 -0.190567
0.85917 0.130606 -0.155076 -0.099592
8.24E-07 0.020526 -0.125548
1.00000 0.130606 -0.155076 -0.099592
8.24E-07 0.062282 -0.060530

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43667 -0.931563 1.255658 0.382471
1.98E-05 0.401974 2.513804
0.57750 -0.931563 1.255658 0.382471
1.98E-05 0.241615 1.987344
0.71833 -0.931563 1.255658 0.382471
1.98E-05 0.081256 1.460884
0.85917 -0.931563 1.255658 0.382471
1.98E-05 -0.079103 0.934423
1.00000 -0.931563 1.255658 0.382471
1.98E-05 -0.239462 0.407963

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43667 1.600895 -2.252479 -0.021930
-1.40E-06 -0.022935 -4.508923
0.57750 1.600895 -2.252479 -0.021930
-1.40E-06 -0.013741 -3.564525
0.71833 1.600895 -2.252479 -0.021930
-1.40E-06 -0.004546 -2.620127
0.85917 1.600895 -2.252479 -0.021930
-1.40E-06 0.004648 -1.675729
1.00000 1.600895 -2.252479 -0.021930
-1.40E-06 0.013843 -0.731331

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43667 -0.885871 1.239087 -0.377897
-2.12E-05 -0.397195 2.466027
0.57750 -0.885871 1.239087 -0.377897
-2.12E-05 -0.238754 1.946515
0.71833 -0.885871 1.239087 -0.377897
-2.12E-05 -0.080313 1.427002
0.85917 -0.885871 1.239087 -0.377897
-2.12E-05 0.078128 0.907490
1.00000 -0.885871 1.239087 -0.377897
-2.12E-05 0.236569 0.387977

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43667 0.113997 -0.115656 0.095506
2.24E-06 0.100410 -0.211467
0.57750 0.113997 -0.115656 0.095506
2.24E-06 0.060367 -0.162976
0.71833 0.113997 -0.115656 0.095506
2.24E-06 0.020324 -0.114485
0.85917 0.113997 -0.115656 0.095506
2.24E-06 -0.019719 -0.065993
1.00000 0.113997 -0.115656 0.095506
2.24E-06 -0.059762 -0.017502

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43667 -1.845499 2.523212 0.026016
-1.67E-06 0.027268 5.040994
0.57750 -1.845499 2.523212 0.026016
-1.67E-06 0.016360 3.983087
0.71833 -1.845499 2.523212 0.026016
-1.67E-06 0.005452 2.925179
0.85917 -1.845499 2.523212 0.026016
-1.67E-06 -0.005456 1.867271
1.00000 -1.845499 2.523212 0.026016
-1.67E-06 -0.016363 0.809363

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43667 1.845499 -2.523212 -0.026016
1.67E-06 -0.027268 -5.040994
0.57750 1.845499 -2.523212 -0.026016
1.67E-06 -0.016360 -3.983087
0.71833 1.845499 -2.523212 -0.026016
1.67E-06 -0.005452 -2.925179
0.85917 1.845499 -2.523212 -0.026016
1.67E-06 0.005456 -1.867271
1.00000 1.845499 -2.523212 -0.026016
1.67E-06 0.016363 -0.809363

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43667 1.845499 2.523212 0.382471
1.98E-05 0.401974 5.040994
0.57750 1.845499 2.523212 0.382471
1.98E-05 0.241615 3.983087
0.71833 1.845499 2.523212 0.382471
1.98E-05 0.081256 2.925179
0.85917 1.845499 2.523212 0.382471
1.98E-05 0.078128 1.867271
1.00000 1.845499 2.523212 0.382471
1.98E-05 0.236569 0.809363

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43667 -1.845499 -2.523212 -0.377897
-2.12E-05 -0.397195 -5.040994
0.57750 -1.845499 -2.523212 -0.377897
-2.12E-05 -0.238754 -3.983087
0.71833 -1.845499 -2.523212 -0.377897
-2.12E-05 -0.080313 -2.925179
0.85917 -1.845499 -2.523212 -0.377897
-2.12E-05 -0.079103 -1.867271
1.00000 -1.845499 -2.523212 -0.377897
-2.12E-05 -0.239462 -0.809363

ELEM 223 ========== LENGTH = 2.978117

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.030104 0.035110 0.021287
-2.53E-06 0.013338 0.014064
0.14087 -0.030104 0.035110 0.021287
-2.53E-06 0.004408 -0.000665
0.28174 -0.030104 0.035110 0.021287
-2.53E-06 -0.004523 -0.015395
0.42261 -0.030104 0.035110 0.021287
-2.53E-06 -0.013453 -0.030124
0.56348 -0.030104 0.035110 0.021287
-2.53E-06 -0.022384 -0.044854

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.140301 -0.186164 -0.101558
1.16E-05 -0.063921 -0.063523
0.14087 0.140301 -0.186164 -0.101558
1.16E-05 -0.021314 0.014579
0.28174 0.140301 -0.186164 -0.101558
1.16E-05 0.021292 0.092680
0.42261 0.140301 -0.186164 -0.101558
1.16E-05 0.063899 0.170782
0.56348 0.140301 -0.186164 -0.101558
1.16E-05 0.106505 0.248883

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.960804 1.275108 0.388606
-2.17E-05 0.244562 0.417878
0.14087 -0.960804 1.275108 0.388606
-2.17E-05 0.081530 -0.117067
0.28174 -0.960804 1.275108 0.388606
-2.17E-05 -0.081502 -0.652012

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42261 -0.960804 1.275108 0.388606
-2.17E-05 -0.244533 -1.186957
0.56348 -0.960804 1.275108 0.388606
-2.17E-05 -0.407565 -1.721902

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.643043 -2.240021 -0.021266
1.76E-06 -0.013280 -0.746354
0.14087 1.643043 -2.240021 -0.021266
1.76E-06 -0.004359 0.193401
0.28174 1.643043 -2.240021 -0.021266
1.76E-06 0.004563 1.133155
0.42261 1.643043 -2.240021 -0.021266
1.76E-06 0.013485 2.072909
0.56348 1.643043 -2.240021 -0.021266
1.76E-06 0.022407 3.012664

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.912035 1.250645 -0.384323
1.90E-05 -0.241912 0.397156
0.14087 -0.912035 1.250645 -0.384323
1.90E-05 -0.080677 -0.127526
0.28174 -0.912035 1.250645 -0.384323
1.90E-05 0.080558 -0.652208
0.42261 -0.912035 1.250645 -0.384323
1.90E-05 0.241792 -1.176890
0.56348 -0.912035 1.250645 -0.384323
1.90E-05 0.403027 -1.701572

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.119599 -0.134677 0.097254
-8.15E-06 0.061213 -0.019222
0.14087 0.119599 -0.134677 0.097254
-8.15E-06 0.020412 0.037279
0.28174 0.119599 -0.134677 0.097254
-8.15E-06 -0.020389 0.093780
0.42261 0.119599 -0.134677 0.097254
-8.15E-06 -0.061190 0.150281
0.56348 0.119599 -0.134677 0.097254
-8.15E-06 -0.101991 0.206782

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.902943 2.560862 0.025570
-5.21E-06 0.015989 0.829098
0.14087 -1.902943 2.560862 0.025570
-5.21E-06 0.005261 -0.245259
0.28174 -1.902943 2.560862 0.025570
-5.21E-06 -0.005467 -1.319615
0.42261 -1.902943 2.560862 0.025570
-5.21E-06 -0.016194 -2.393972
0.56348 -1.902943 2.560862 0.025570
-5.21E-06 -0.026922 -3.468328

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.902943 -2.560862 -0.025570
5.21E-06 -0.015989 -0.829098
0.14087 1.902943 -2.560862 -0.025570
5.21E-06 -0.005261 0.245259
0.28174 1.902943 -2.560862 -0.025570
5.21E-06 0.005467 1.319615
0.42261 1.902943 -2.560862 -0.025570
5.21E-06 0.016194 2.393972
0.56348 1.902943 -2.560862 -0.025570
5.21E-06 0.026922 3.468328

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.902943 2.560862 0.388606
1.90E-05 0.244562 0.829098

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14087 1.902943 2.560862 0.388606
1.90E-05 0.081530 0.245259
0.28174 1.902943 2.560862 0.388606
1.90E-05 0.080558 1.319615
0.42261 1.902943 2.560862 0.388606
1.90E-05 0.241792 2.393972
0.56348 1.902943 2.560862 0.388606
1.90E-05 0.403027 3.468328

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.902943 -2.560862 -0.384323
-2.17E-05 -0.241912 -0.829098
0.14087 -1.902943 -2.560862 -0.384323
-2.17E-05 -0.080677 -0.245259
0.28174 -1.902943 -2.560862 -0.384323
-2.17E-05 -0.081502 -1.319615
0.42261 -1.902943 -2.560862 -0.384323
-2.17E-05 -0.244533 -2.393972
0.56348 -1.902943 -2.560862 -0.384323
-2.17E-05 -0.407565 -3.468328

ELEM 224 ========== LENGTH = 2.977323

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.020401 0.024665 0.015926
-3.93E-07 0.017227 0.056432
0.57748 -0.020401 0.024665 0.015926
-3.93E-07 0.010549 0.048089
0.71832 -0.020401 0.024665 0.015926
-3.93E-07 0.003871 0.035746
0.85916 -0.020401 0.024665 0.015926
-3.93E-07 -0.002807 0.025403
1.00000 -0.020401 0.024665 0.015926
-3.93E-07 -0.009485 0.015061

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.094254 -0.128884 -0.073564
1.72E-06 -0.079840 0.286184
0.57748 0.094254 -0.128884 -0.073564
1.72E-06 -0.048993 -0.232139
0.71832 0.094254 -0.128884 -0.073564
1.72E-06 -0.018145 -0.178094
0.85916 0.094254 -0.128884 -0.073564
1.72E-06 0.012702 -0.124049
1.00000 0.094254 -0.128884 -0.073564
1.72E-06 0.043550 -0.070004

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.713728 1.116741 0.291638
9.87E-06 0.316102 2.367108
0.57748 -0.713728 1.116741 0.291638
9.87E-06 0.193810 1.898824
0.71832 -0.713728 1.116741 0.291638
9.87E-06 0.071517 1.430540
0.85916 -0.713728 1.116741 0.291638
9.87E-06 -0.050776 0.962256
1.00000 -0.713728 1.116741 0.291638
9.87E-06 -0.173068 0.493973

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43663 1.297071 -1.974693 0.079352
1.94E-05 0.086100 -4.179884
0.57748 1.297071 -1.974693 0.079352
1.94E-05 0.052825 -3.351834
0.71832 1.297071 -1.974693 0.079352
1.94E-05 0.019550 -2.523784
0.85916 1.297071 -1.974693 0.079352
1.94E-05 -0.013724 -1.695735
1.00000 1.297071 -1.974693 0.079352
1.94E-05 -0.046999 -0.867685

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.752888 1.081373 -0.413591
-3.46E-05 -0.448392 2.270356
0.57748 -0.752888 1.081373 -0.413591
-3.46E-05 -0.274961 1.816903
0.71832 -0.752888 1.081373 -0.413591
-3.46E-05 -0.101530 1.363450
0.85916 -0.752888 1.081373 -0.413591
-3.46E-05 0.071902 0.909997
1.00000 -0.752888 1.081373 -0.413591
-3.46E-05 0.245333 0.456544

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.095691 -0.119202 0.100239
3.96E-06 0.108803 -0.227829
0.57748 0.095691 -0.119202 0.100239
3.96E-06 0.066770 -0.177844
0.71832 0.095691 -0.119202 0.100239
3.96E-06 0.024736 -0.127859
0.85916 0.095691 -0.119202 0.100239
3.96E-06 -0.017297 -0.077874
1.00000 0.095691 -0.119202 0.100239
3.96E-06 -0.059330 -0.027889

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43663 -1.487017 2.222779 -0.106028
-2.51E-05 -0.115063 4.693896
0.57748 -1.487017 2.222779 -0.106028
-2.51E-05 -0.070602 3.761816
0.71832 -1.487017 2.222779 -0.106028
-2.51E-05 -0.026142 2.829737
0.85916 -1.487017 2.222779 -0.106028
-2.51E-05 0.018319 1.897657
1.00000 -1.487017 2.222779 -0.106028
-2.51E-05 0.062780 0.965577

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43663 1.487017 -2.222779 0.106028
2.51E-05 0.115063 -4.693896
0.57748 1.487017 -2.222779 0.106028
2.51E-05 0.070602 -3.761816
0.71832 1.487017 -2.222779 0.106028
2.51E-05 0.026142 -2.829737
0.85916 1.487017 -2.222779 0.106028
2.51E-05 -0.018319 -1.897657
1.00000 1.487017 -2.222779 0.106028
2.51E-05 -0.062780 -0.965577

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 1.487017 2.222779 0.291638
2.51E-05 0.316102 4.693896
0.57748 1.487017 2.222779 0.291638
2.51E-05 0.193810 3.761816
0.71832 1.487017 2.222779 0.291638
2.51E-05 0.071517 2.829737
0.85916 1.487017 2.222779 0.291638
2.51E-05 0.071902 1.897657
1.00000 1.487017 2.222779 0.291638
2.51E-05 0.245333 0.965577

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -1.487017 -2.222779 -0.413591
-3.46E-05 -0.448392 -4.693896
0.57748 -1.487017 -2.222779 -0.413591
-3.46E-05 -0.274961 -3.761816
0.71832 -1.487017 -2.222779 -0.413591
-3.46E-05 -0.101530 -2.829737
0.85916 -1.487017 -2.222779 -0.413591
-3.46E-05 -0.050776 -1.897657
1.00000 -1.487017 -2.222779 -0.413591
-3.46E-05 -0.173068 -0.965577

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 225 ========== LENGTH = 2.977383

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.024861 0.026175 0.015686
-2.17E-06 0.009293 0.015712
0.14084 -0.024861 0.026175 0.015686
-2.17E-06 0.002715 0.004736
0.28169 -0.024861 0.026175 0.015686
-2.17E-06 -0.003863 -0.006240
0.42253 -0.024861 0.026175 0.015686
-2.17E-06 -0.010441 -0.017217
0.56337 -0.024861 0.026175 0.015686
-2.17E-06 -0.017019 -0.028193

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.115261 -0.135834 -0.074609
1.00E-05 -0.044469 -0.073040
0.14084 0.115261 -0.135834 -0.074609
1.00E-05 -0.013182 -0.016079
0.28169 0.115261 -0.135834 -0.074609
1.00E-05 0.018105 0.040883
0.42253 0.115261 -0.135834 -0.074609
1.00E-05 0.049392 0.097844
0.56337 0.115261 -0.135834 -0.074609
1.00E-05 0.080679 0.154805

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.792662 1.133472 0.291970
-2.26E-05 0.173767 0.503987
0.14084 -0.792662 1.133472 0.291970
-2.26E-05 0.051331 0.028670
0.28169 -0.792662 1.133472 0.291970
-2.26E-05 -0.071105 -0.446647
0.42253 -0.792662 1.133472 0.291970
-2.26E-05 -0.193541 -0.921963
0.56337 -0.792662 1.133472 0.291970
-2.26E-05 -0.315978 -1.397280

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.319929 -2.007854 0.090628
3.93E-06 0.055287 -0.882491
0.14084 1.319929 -2.007854 0.090628
3.93E-06 0.017283 -0.040506
0.28169 1.319929 -2.007854 0.090628
3.93E-06 -0.020721 0.801480
0.42253 1.319929 -2.007854 0.090628
3.93E-06 -0.058726 1.643465
0.56337 1.319929 -2.007854 0.090628
3.93E-06 -0.096730 2.485450

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.698523 1.116217 -0.427458
2.04E-05 -0.255996 0.465093
0.14084 -0.698523 1.116217 -0.427458
2.04E-05 -0.076743 -0.002988
0.28169 -0.698523 1.116217 -0.427458
2.04E-05 0.102509 -0.471069
0.42253 -0.698523 1.116217 -0.427458
2.04E-05 0.281762 -0.939150
0.56337 -0.698523 1.116217 -0.427458
2.04E-05 0.461015 -1.407231

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.080856 -0.132176 0.103784
-9.56E-06 0.062117 -0.029261
0.14084 0.080856 -0.132176 0.103784
-9.56E-06 0.018596 0.026166
0.28169 0.080856 -0.132176 0.103784
-9.56E-06 -0.024925 0.081594

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42253 0.080856 -0.132176 0.103784
-9.56E-06 -0.068447 0.137021
0.56337 0.080856 -0.132176 0.103784
-9.56E-06 -0.111968 0.192448

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.516046 2.275864 -0.119802
-4.36E-06 -0.072936 0.984792
0.14084 -1.516046 2.275864 -0.119802
-4.36E-06 -0.022697 0.030418
0.28169 -1.516046 2.275864 -0.119802
-4.36E-06 0.027541 -0.923956
0.42253 -1.516046 2.275864 -0.119802
-4.36E-06 0.077780 -1.878330
0.56337 -1.516046 2.275864 -0.119802
-4.36E-06 0.128019 -2.832704

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 1.516046 -2.275864 0.119802
4.36E-06 0.072936 -0.984792
0.14084 1.516046 -2.275864 0.119802
4.36E-06 0.022697 -0.030418
0.28169 1.516046 -2.275864 0.119802
4.36E-06 -0.027541 0.923956
0.42253 1.516046 -2.275864 0.119802
4.36E-06 -0.077780 1.878330
0.56337 1.516046 -2.275864 0.119802
4.36E-06 -0.128019 2.832704

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.516046 2.275864 0.291970
2.04E-05 0.173767 0.984792
0.14084 1.516046 2.275864 0.291970
2.04E-05 0.051331 0.030418
0.28169 1.516046 2.275864 0.291970
2.04E-05 0.102509 0.923956
0.42253 1.516046 2.275864 0.291970
2.04E-05 0.281762 1.878330
0.56337 1.516046 2.275864 0.291970
2.04E-05 0.461015 2.832704

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -1.516046 -2.275864 -0.427458
-2.26E-05 -0.255996 -0.984792
0.14084 -1.516046 -2.275864 -0.427458

```
-2.26E-05   -0.076743   -0.040506
0.28169     -1.516046   -2.275864   -0.427458
-2.26E-05   -0.071105   -0.923956
0.42253     -1.516046   -2.275864   -0.427458
-2.26E-05   -0.103541   -1.878330
0.56337     -1.516046   -2.275864   -0.427458
-2.26E-05   -0.315978   -2.832704

ELEM      226 ========== LENGTH =     2.977749

LOAD      -A1 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43657   -0.007822   0.019886    0.009171
-4.28E-07   0.010232   0.054065
0.57743   -0.007822   0.019886    0.009171
-4.28E-07   0.006385   0.045724
0.71829   -0.007822   0.019886    0.009171
-4.28E-07   0.002538   0.037383
0.85914   -0.007822   0.019886    0.009171
-4.28E-07   -0.001308  0.029042
1.00000   -0.007822   0.019886    0.009171
-4.28E-07   -0.005155  0.020701
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  463

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43657   0.034858    -0.099723   -0.041713
 1.97E-06   -0.046761   -0.264930
0.57743   0.034858    -0.099723   -0.041713
 1.97E-06   -0.029265   -0.223102
0.71829   0.034858    -0.099723   -0.041713
 1.97E-06   -0.011769   -0.181275
0.85914   0.034858    -0.099723   -0.041713
 1.97E-06   0.005727    -0.139447
1.00000   0.034858    -0.099723   -0.041713
 1.97E-06   0.023224    -0.097620

LOAD      -P2 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43657   -0.305787   0.836350    0.180651
 4.10E-06   0.202010    1.925858
0.57743   -0.305787   0.836350    0.180651
 4.10E-06   0.126239    1.575062
0.71829   -0.305787   0.836350    0.180651
 4.10E-06   0.050467    1.224266
0.85914   -0.305787   0.836350    0.180651
 4.10E-06   -0.025305   0.873469
1.00000   -0.305787   0.836350    0.180651
 4.10E-06   -0.101076   0.522673

LOAD      -P3 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43657   0.552432    -1.473069   0.207272
 3.27E-05   0.233229    -3.317644
0.57743   0.552432    -1.473069   0.207272
 3.27E-05   0.146291    -2.689784
0.71829   0.552432    -1.473069   0.207272
 3.27E-05   0.059353    -2.081924
0.85914   0.552432    -1.473069   0.207272
 3.27E-05   -0.027585   -1.464064
1.00000   0.552432    -1.473069   0.207272
 3.27E-05   -0.114523   -0.846204

LOAD      -P4 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43657   -0.292008   0.795911    -0.459794
 -4.26E-05   -0.516108   1.762049
0.57743   -0.292008   0.795911    -0.459794
 -4.26E-05   -0.323253   1.428214
0.71829   -0.292008   0.795911    -0.459794
 -4.26E-05   -0.130398   1.094379
0.85914   -0.292008   0.795911    -0.459794
 -4.26E-05   0.062456    0.760544
1.00000   -0.292008   0.795911    -0.459794
 -4.26E-05   0.255311    0.426710

LOAD      -P5 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43657   0.018327    -0.079354   0.104413
 4.28E-06   0.117398    -0.159398
0.57743   0.018327    -0.079354   0.104413
 4.28E-06   0.073604    -0.126113
0.71829   0.018327    -0.079354   0.104413
 4.28E-06   0.029809    -0.092829
0.85914   0.018327    -0.079354   0.104413
 4.28E-06   -0.013986   -0.059545
1.00000   0.018327    -0.079354   0.104413
 4.28E-06   -0.057781   -0.026261

LOAD   -2N+1- ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43657   -0.605617   1.652147    -0.269972
 -3.90E-05   -0.303866   3.741971
0.57743   -0.605617   1.652147    -0.269972
 -3.90E-05   -0.190629   3.049000
0.71829   -0.605617   1.652147    -0.269972
 -3.90E-05   -0.077393   2.356028
0.85914   -0.605617   1.652147    -0.269972
 -3.90E-05   0.035843    1.663056
1.00000   -0.605617   1.652147    -0.269972
 -3.90E-05   0.149080    0.970084
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  464

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43657   0.605617    -1.652147   0.269972
 3.90E-05   0.303866    -3.741971
0.57743   0.605617    -1.652147   0.269972
 3.90E-05   0.190629    -3.049000
0.71829   0.605617    -1.652147   0.269972
 3.90E-05   0.077393    -2.356028
0.85914   0.605617    -1.652147   0.269972
 3.90E-05   -0.035843   -1.663056
1.00000   0.605617    -1.652147   0.269972
 3.90E-05   -0.149080   -0.970084

COMB  SETTLE ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43657   0.605617    -1.652147   0.269972
3.90E-05   0.303866    3.741971
0.57743   0.605617    -1.652147   0.269972
3.90E-05   0.190629    3.049000
0.71829   0.605617    -1.652147   0.269972
3.90E-05   0.077393    2.356028
0.85914   0.605617    -1.652147   0.269972
3.90E-05   0.062456    1.663056
1.00000   0.605617    -1.652147   0.269972
3.90E-05   0.255311    0.970084

COMB  SETTLE ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43657   -0.605617   -1.652147   -0.459794
 -4.26E-05   -0.516108   -3.741971
0.57743   -0.605617   -1.652147   -0.459794
 -4.26E-05   -0.323253   -3.049000
0.71829   -0.605617   -1.652147   -0.459794
 -4.26E-05   -0.130398   -2.356028
0.85914   -0.605617   -1.652147   -0.459794
 -4.26E-05   -0.035843   -1.663056
1.00000   -0.605617   -1.652147   -0.459794
 -4.26E-05   -0.149080   -0.970084

ELEM      227 ========== LENGTH =     2.977809

LOAD      -A1 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.009274   0.024883    0.009005
 -1.67E-06   0.005026    0.021539
0.14086   -0.009274   0.024883    0.009005
 -1.67E-06   0.001249    0.011102
0.28172   -0.009274   0.024883    0.009005
 -1.67E-06   -0.002528   0.000664
0.42258   -0.009274   0.024883    0.009005
 -1.67E-06   -0.006305   -0.009773
0.56344   -0.009274   0.024883    0.009005
 -1.67E-06   -0.010082   -0.020210

LOAD      -P1 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.041733    -0.123043   -0.042565
 7.69E-06   -0.023988   -0.101523
0.14086   0.041733    -0.123043   -0.042565
 7.69E-06   -0.006134   -0.049913
0.28172   0.041733    -0.123043   -0.042565
 7.69E-06   0.011720    0.001698
0.42258   0.041733    -0.123043   -0.042565
 7.69E-06   0.029574    0.053308
0.56344   0.041733    -0.123043   -0.042565
 7.69E-06   0.047428    0.104919

LOAD      -P2 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.329303   0.916045    0.180078
 -2.37E-05   0.101023    0.535619
0.14086   -0.329303   0.916045    0.180078
 -2.37E-05   0.025489    0.151382
0.28172   -0.329303   0.916045    0.180078
 -2.37E-05   -0.050045   -0.232855
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  465

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42258   -0.329303   0.916045    0.180078
 -2.37E-05   -0.125580   -0.617092
0.56344   -0.329303   0.916045    0.180078
 -2.37E-05   -0.201114   -1.001329

LOAD      -P3 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.589927    -1.590252   0.219717
 8.89E-06   0.123775    -0.864460
0.14086   0.589927    -1.590252   0.219717
 8.89E-06   0.031615    -0.197425
0.28172   0.589927    -1.590252   0.219717
 8.89E-06   -0.060546   0.469610
0.42258   0.589927    -1.590252   0.219717
 8.89E-06   -0.152707   1.136645
0.56344   0.589927    -1.590252   0.219717
 8.89E-06   -0.244868   1.803680

LOAD      -P4 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.313990   0.860932    -0.474592
 1.83E-05   -0.266741   0.435942
0.14086   -0.313990   0.860932    -0.474592
 1.83E-05   0.067672    0.074822
0.28172   -0.313990   0.860932    -0.474592
 1.83E-05   0.131396    -0.286298
0.42258   -0.313990   0.860932    -0.474592
 1.83E-05   0.330465    -0.647417
0.56344   -0.313990   0.860932    -0.474592
 1.83E-05   0.529534    -1.008537

LOAD      -P5 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.020907    -0.088565   0.108357
 -9.54E-06   0.020907    -0.067717
0.14086   0.020907    -0.088565   0.108357
 -9.54E-06   0.015454    0.010032
0.28172   0.020907    -0.088565   0.108357
 -9.54E-06   -0.029997   0.047180
0.42258   0.020907    -0.088565   0.108357
 -9.54E-06   -0.075447   0.084329
0.56344   0.020907    -0.088565   0.108357
 -9.54E-06   -0.120898   0.121478

LOAD   -2N+1- ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.652568   1.801860    -0.285509
 -7.04E-06   -0.160692   0.993100
0.14086   -0.652568   1.801860    -0.285509
 -7.04E-06   -0.040934   0.237306
0.28172   -0.652568   1.801860    -0.285509
 -7.04E-06   0.078823    -0.518488
0.42258   -0.652568   1.801860    -0.285509
 -7.04E-06   0.198580    -1.274282
0.56344   -0.652568   1.801860    -0.285509
 -7.04E-06   0.318337    -2.030076

LOAD   -2N+2- ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.652568    -1.801860   0.285509
 7.04E-06   0.160692    -0.993100
0.14086   0.652568    -1.801860   0.285509
 7.04E-06   0.040934    -0.237306
0.28172   0.652568    -1.801860   0.285509
 7.04E-06   -0.078823   0.518488
0.42258   0.652568    -1.801860   0.285509
 7.04E-06   -0.198580   1.274282
0.56344   0.652568    -1.801860   0.285509
 7.04E-06   -0.318337   2.030076

COMB  SETTLE ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.652568    1.801860    0.285509
1.83E-05   0.160692    0.993100
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  466

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.14086   0.652568    1.801860    0.285509
1.83E-05   0.040934    0.237306
0.28172   0.652568    1.801860    0.285509
1.83E-05   0.131396    0.518488
0.42258   0.652568    1.801860    0.285509
1.83E-05   0.330465    1.274282
0.56344   0.652568    1.801860    0.285509
1.83E-05   0.529534    2.030076

COMB  SETTLE ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.652568   -1.801860   -0.474592
 -2.37E-05   -0.266741   -0.993100
0.14086   -0.652568   -1.801860   -0.474592
 -2.37E-05   -0.067672   -0.237306
0.28172   -0.652568   -1.801860   -0.474592
 -2.37E-05   -0.078823   -0.518488
0.42258   -0.652568   -1.801860   -0.474592
 -2.37E-05   -0.198580   -1.274282
0.56344   -0.652568   -1.801860   -0.474592
 -2.37E-05   -0.318337   -2.030076

ELEM      228 ========== LENGTH =     2.977253

LOAD      -A1 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43664   -0.000328   0.016187    0.003811
 -4.89E-07   0.004243    0.045762
0.57748   -0.000328   0.016187    0.003811
 -4.89E-07   0.002645    0.038975
0.71832   -0.000328   0.016187    0.003811
 -4.89E-07   0.001047    0.032187
0.85916   -0.000328   0.016187    0.003811
 -4.89E-07   -0.000551   0.025400
1.00000   -0.000328   0.016187    0.003811
 -4.89E-07   -0.002149   0.018613

LOAD      -P1 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43664   0.000322    -0.078915   -0.016410
 2.33E-06   -0.018433   -0.220526
0.57748   0.000322    -0.078915   -0.016410
 2.33E-06   -0.011552   -0.187436
0.71832   0.000322    -0.078915   -0.016410
 2.33E-06   -0.004671   -0.154346
0.85916   0.000322    -0.078915   -0.016410
 2.33E-06   0.002209    -0.121256
1.00000   0.000322    -0.078915   -0.016410
 2.33E-06   0.009090    -0.088166

LOAD      -P2 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43664   -0.037121   0.581632    0.095540
 -5.83E-07   0.106555    1.330010
0.57748   -0.037121   0.581632    0.095540
 -5.83E-07   0.066494    1.086124
0.71832   -0.037121   0.581632    0.095540
 -5.83E-07   0.026433    0.842237
0.85916   -0.037121   0.581632    0.095540
 -5.83E-07   -0.013629   0.598351
1.00000   -0.037121   0.581632    0.095540
 -5.83E-07   -0.053690   0.354465

LOAD      -P3 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43664   0.088059    -0.962018   0.326616
 4.34E-05   0.365885    -2.133275
0.57748   0.088059    -0.962018   0.326616
 4.34E-05   0.228930    -1.729888
0.71832   0.088059    -0.962018   0.326616
 4.34E-05   0.091976    -1.326501
0.85916   0.088059    -0.962018   0.326616
 4.34E-05   -0.044978   -0.923114
1.00000   0.088059    -0.962018   0.326616
 4.34E-05   -0.181932   -0.519727
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  467

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43664   -0.032370   0.472797    -0.518874
 -5.11E-05   -0.580867   1.045932
0.57748   -0.032370   0.472797    -0.518874
 -5.11E-05   -0.396397   0.847282
0.71832   -0.032370   0.472797    -0.518874
 -5.11E-05   -0.145726   0.649432
0.85916   -0.032370   0.472797    -0.518874
 -5.11E-05   0.071844    0.451182
1.00000   -0.032370   0.472797    -0.518874
 -5.11E-05   0.289415    0.252932

LOAD      -P5 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43664   -0.018563   -0.029683   0.109316
 6.44E-06   0.122617    -0.067902
0.57748   -0.018563   -0.029683   0.109316
 6.44E-06   0.076780    -0.055456
0.71832   -0.018563   -0.029683   0.109316
 6.44E-06   0.030942    -0.043009
0.85916   -0.018563   -0.029683   0.109316
 6.44E-06   -0.014896   -0.030563
1.00000   -0.018563   -0.029683   0.109316
 6.44E-06   -0.060733   -0.018116

LOAD   -2N+1- ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43664   -0.069818   1.070616    -0.419522
 -5.22E-05   -0.470069   2.421703
0.57748   -0.069818   1.070616    -0.419522
 -5.22E-05   -0.294158   1.972780
0.71832   -0.069818   1.070616    -0.419522
 -5.22E-05   -0.118247   1.523856
0.85916   -0.069818   1.070616    -0.419522
 -5.22E-05   0.057664    1.074933
1.00000   -0.069818   1.070616    -0.419522
 -5.22E-05   0.233575    0.626010

LOAD   -2N+2- ----------

REL DIST          P          V2          V3
       T          M2         M3
0.43664   0.069818    -1.070616   0.419522
 5.22E-05   0.470069    -2.421703
0.57748   0.069818    -1.070616   0.419522
 5.22E-05   0.294158    -1.972780
0.71832   0.069818    -1.070616   0.419522
 5.22E-05   0.118247    -1.523856
0.85916   0.069818    -1.070616   0.419522
 5.22E-05   -0.057664   -1.074933
1.00000   0.069818    -1.070616   0.419522
 5.22E-05   -0.233575   -0.626010

COMB  SETTLE ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43664   0.088059    1.070616    0.419522
5.22E-05   0.470069    2.421703
0.57748   0.088059    1.070616    0.419522
5.22E-05   0.294158    1.972780
0.71832   0.088059    1.070616    0.419522
5.22E-05   0.118247    1.523856
0.85916   0.088059    1.070616    0.419522
5.22E-05   0.071844    1.074933
1.00000   0.088059    1.070616    0.419522
5.22E-05   0.289415    0.626010

COMB  SETTLE ---------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43664   -0.069818   -1.070616   -0.518874
 -5.22E-05   -0.580867   -2.421703
0.57748   -0.069818   -1.070616   -0.518874
 -5.22E-05   -0.363297   -1.972780
0.71832   -0.069818   -1.070616   -0.518874
 -5.22E-05   -0.145726   -1.523856
0.85916   -0.069818   -1.070616   -0.518874
 -5.22E-05   0.057664    -1.074933
1.00000   -0.069818   -1.070616   -0.518874
 -5.22E-05   0.233575    -0.626010
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  468

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      229 ========== LENGTH =     2.977313

LOAD      -A1 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.001082   0.009053    0.003800
 -9.30E-07   0.002142    0.019329
0.14084   -0.001082   0.009053    0.003800
 -9.30E-07   0.000549    0.015533
0.28168   -0.001082   0.009053    0.003800
 -9.30E-07   -0.001045   0.011736
0.42252   -0.001082   0.009053    0.003800
 -9.30E-07   -0.002638   0.007940
0.56336   -0.001082   0.009053    0.003800
 -9.30E-07   -0.004232   0.004144

LOAD      -P1 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.003933    -0.045669   -0.017582
 4.28E-06   -0.010083   -0.091505
0.14084   0.003933    -0.045669   -0.017582
 4.28E-06   -0.002710   -0.072355
0.28168   0.003933    -0.045669   -0.017582
 4.28E-06   0.004662    -0.053205
0.42252   0.003933    -0.045669   -0.017582
 4.28E-06   0.012045    -0.034055
0.56336   0.003933    -0.045669   -0.017582
 4.28E-06   0.019407    -0.014905

LOAD      -P2 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.049653   0.471491    0.095995
 -1.70E-05   0.054257    0.365553
0.14084   -0.049653   0.471491    0.095995
 -1.70E-05   0.014003    0.167843
0.28168   -0.049653   0.471491    0.095995
 -1.70E-05   -0.026250   -0.029866
0.42252   -0.049653   0.471491    0.095995
 -1.70E-05   -0.066504   -0.227576
0.56336   -0.049653   0.471491    0.095995
 -1.70E-05   -0.106757   -0.425285

LOAD      -P3 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.105846    -0.835195   0.337144
 1.61E-06   0.189996    -0.534375
0.14084   0.105846    -0.835195   0.337144
 1.61E-06   0.048622    -0.184154
0.28168   0.105846    -0.835195   0.337144
 1.61E-06   -0.092752   0.166067
0.42252   0.105846    -0.835195   0.337144
 1.61E-06   -0.234126   0.516287
0.56336   0.105846    -0.835195   0.337144
 1.61E-06   -0.375500   0.866508

LOAD      -P4 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.041148   0.451468    -0.532085
 2.31E-05   -0.299784   0.258845
0.14084   -0.041148   0.451468    -0.532085
 2.31E-05   -0.170666   0.065332
0.28168   -0.041148   0.451468    -0.532085
 2.31E-05   0.146452    -0.119781
0.42252   -0.041148   0.451468    -0.532085
 2.31E-05   0.369570    -0.309094
0.56336   -0.041148   0.451468    -0.532085
 2.31E-05   0.592688    -0.498407

LOAD      -P5 ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.017895   -0.051148   0.112727
 -1.11E-05   0.063472    -0.017846
0.14084   -0.017895   -0.051148   0.112727
 -1.11E-05   0.016202    0.003601
0.28168   -0.017895   -0.051148   0.112727
 -1.11E-05   -0.031067   0.025049
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  469

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42252   -0.017895   -0.051148   0.112727
 -1.11E-05   -0.078337   0.046497
0.56336   -0.017895   -0.051148   0.112727
 -1.11E-05   -0.125606   0.067945

LOAD   -2N+1- ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.091883   0.932012    -0.432289
 5.23E-06   -0.243385   0.643727
0.14084   -0.091883   0.932012    -0.432289
 5.23E-06   -0.062114   0.252908
0.28168   -0.091883   0.932012    -0.432289
 5.23E-06   0.119157    -0.137911
0.42252   -0.091883   0.932012    -0.432289
 5.23E-06   0.300428    -0.528730
0.56336   -0.091883   0.932012    -0.432289
 5.23E-06   0.481699    -0.919548

LOAD   -2N+2- ----------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.091883    -0.932012   0.432289
 -5.23E-06   0.243385    -0.643727
0.14084   0.091883    -0.932012   0.432289
 -5.23E-06   0.062114    -0.252908
0.28168   0.091883    -0.932012   0.432289
 -5.23E-06   -0.119157   0.137911
0.42252   0.091883    -0.932012   0.432289
 -5.23E-06   -0.300428   0.528730
0.56336   0.091883    -0.932012   0.432289
 -5.23E-06   -0.481699   0.919548

COMB  SETTLE ---------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000   0.105846    0.932012    0.432289
2.31E-05   0.243385    0.643727
0.14084   0.105846    0.932012    0.432289
2.31E-05   0.062114    0.252908
0.28168   0.105846    0.932012    0.432289
2.31E-05   0.146452    0.166067
```

```
0.42252     0.105846     0.932012     0.432289
2.31E-05     0.369570     0.528730
0.56336     0.105846     0.932012     0.432289
2.31E-05     0.592688     0.919548

COMB  SETTLE ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.091883    -0.932012    -0.532085
-1.70E-05    -0.299784    -0.643727
0.14084    -0.091883    -0.932012    -0.532085
-1.70E-05    -0.076666    -0.252908
0.28168    -0.091883    -0.932012    -0.532085
-1.70E-05    -0.119157    -0.137911
0.42252    -0.091883    -0.932012    -0.532085
-1.70E-05    -0.300428    -0.528730
0.56336    -0.091883    -0.932012    -0.532085
-1.70E-05    -0.481699    -0.919548

ELEM      230 ================== LENGTH
=     2.976832

LOAD     -A1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43671    -0.000851     0.001716    -0.001392
-5.12E-07    -0.001543     0.033644
0.57753    -0.000851     0.001716    -0.001392
-5.12E-07    -0.000960     0.032924
0.71835    -0.000851     0.001716    -0.001392
-5.12E-07    -0.000376     0.032205
0.85918    -0.000851     0.001716    -0.001392
-5.12E-07     0.000207     0.031485
1.00000    -0.000851     0.001716    -0.001392
-5.12E-07     0.000791     0.030766
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 470

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43671     0.003478    -0.009743     0.008126
 2.48E-06     0.008999    -0.160934
0.57753     0.003478    -0.009743     0.008126
 2.48E-06     0.005492    -0.156850
0.71835     0.003478    -0.009743     0.008126
 2.48E-06     0.002085    -0.152766
0.85918     0.003478    -0.009743     0.008126
 2.48E-06    -0.001321    -0.148682
1.00000     0.003478    -0.009743     0.008126
 2.48E-06    -0.004728    -0.144598

LOAD     -P2 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43671     0.070958     0.218013     0.014969
-2.62E-06     0.016542     0.714932
0.57753     0.070958     0.218013     0.014969
-2.62E-06     0.010267     0.623540
0.71835     0.070958     0.218013     0.014969
-2.62E-06     0.003992     0.532147
0.85918     0.070958     0.218013     0.014969
-2.62E-06    -0.002283     0.440754
1.00000     0.070958     0.218013     0.014969
-2.62E-06    -0.008558     0.349361

LOAD     -P3 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43671    -0.124609    -0.368705     0.427375
 4.54E-05     0.478503    -0.980428
0.57753    -0.124609    -0.368705     0.427375
 4.54E-05     0.299344    -0.825864
0.71835    -0.124609    -0.368705     0.427375
 4.54E-05     0.120185    -0.671300
0.85918    -0.124609    -0.368705     0.427375
 4.54E-05    -0.058974    -0.516736
1.00000    -0.124609    -0.368705     0.427375
 4.54E-05    -0.238133    -0.362171

LOAD     -P4 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43671     0.065347     0.158190    -0.553958
-4.92E-05    -0.619985     0.377627
0.57753     0.065347     0.158190    -0.553958
-4.92E-05    -0.387762     0.311313
0.71835     0.065347     0.158190    -0.553958
-4.92E-05    -0.155538     0.244998
0.85918     0.065347     0.158190    -0.553958
-4.92E-05     0.076685     0.178683
1.00000     0.065347     0.158190    -0.553958
-4.92E-05     0.308909     0.112369

LOAD     -P5 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43671    -0.014322     0.000528     0.104879
 4.43E-06    -0.117585     0.015159
0.57753    -0.014322     0.000528     0.104879
 4.43E-06     0.073618     0.014938
0.71835    -0.014322     0.000528     0.104879
 4.43E-06     0.029652     0.014716
0.85918    -0.014322     0.000528     0.104879
 4.43E-06    -0.014314     0.014495
1.00000    -0.014322     0.000528     0.104879
 4.43E-06    -0.058280     0.014274

LOAD  -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43671     0.135454     0.377920    -0.540381
-5.23E-05    -0.604986     1.126204
0.57753     0.135454     0.377920    -0.540381
-5.23E-05    -0.378454     0.967777
0.71835     0.135454     0.377920    -0.540381
-5.23E-05    -0.151922     0.809349
0.85918     0.135454     0.377920    -0.540381
-5.23E-05     0.074610     0.650922
1.00000     0.135454     0.377920    -0.540381
-5.23E-05     0.301142     0.492495
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 471

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43671    -0.135454    -0.377920     0.540381
 5.23E-05     0.604986    -1.126204
0.57753    -0.135454    -0.377920     0.540381
 5.23E-05     0.378454    -0.967777
0.71835    -0.135454    -0.377920     0.540381
 5.23E-05     0.151922    -0.809349
0.85918    -0.135454    -0.377920     0.540381
 5.23E-05     0.074610    -0.650922
1.00000    -0.135454    -0.377920     0.540381
 5.23E-05     0.301142    -0.492495

COMB  SETTLE ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
0.43671     0.135454     0.377920     0.540381
5.23E-05     0.604986     1.126204
0.57753     0.135454     0.377920     0.540381
5.23E-05     0.378454     0.967777
0.71835     0.135454     0.377920     0.540381
5.23E-05     0.151922     0.809349
0.85918     0.135454     0.377920     0.540381
5.23E-05     0.074610     0.650922
1.00000     0.135454     0.377920     0.540381
5.23E-05     0.378454     0.967777
0.71835     0.135454     0.377920     0.540381
5.23E-05     0.151922     0.809349
0.85918     0.135454     0.377920     0.540381
5.23E-05     0.074610     0.650922
1.00000     0.135454     0.377920     0.540381
5.23E-05     0.308909     0.492495

COMB  SETTLE ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
0.43671    -0.135454    -0.377920    -0.553958
-5.23E-05    -0.619985    -1.126204
0.57753    -0.135454    -0.377920    -0.553958
-5.23E-05    -0.387762    -0.967777
0.71835    -0.135454    -0.377920    -0.553958
-5.23E-05    -0.155538    -0.809349
0.85918    -0.135454    -0.377920    -0.553958
-5.23E-05    -0.074610    -0.650922
1.00000    -0.135454    -0.377920    -0.553958
-5.23E-05    -0.301142    -0.492495

ELEM      231 ================== LENGTH
=     2.977849

LOAD     -A1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.002526     0.011072    -0.001223
-1.28E-07    -0.000657     0.031540
0.14086    -0.002526     0.011072    -0.001223
-1.28E-07    -0.000144     0.026895
0.28172    -0.002526     0.011072    -0.001223
-1.28E-07     0.000369     0.022251
0.42258    -0.002526     0.011072    -0.001223
-1.28E-07     0.000882     0.017606
0.56344    -0.002526     0.011072    -0.001223
-1.28E-07     0.001395     0.012962

LOAD     -P1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.011362    -0.053357     0.006433
 5.32E-07     0.003346    -0.148206
0.14086     0.011362    -0.053357     0.006433
 5.32E-07     0.000648    -0.125825
0.28172     0.011362    -0.053357     0.006433
 5.32E-07    -0.002051    -0.103444
0.42258     0.011362    -0.053357     0.006433
 5.32E-07    -0.004750    -0.081063
0.56344     0.011362    -0.053357     0.006433
 5.32E-07    -0.007448    -0.058682

LOAD     -P2 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.044569     0.363318     0.015161
-7.77E-06     0.008787     0.361352
0.14086     0.044569     0.363318     0.015161
-7.77E-06     0.002427     0.208954
0.28172     0.044569     0.363318     0.015161
-7.77E-06    -0.003933     0.056556
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 472

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
0.42258     0.044569     0.363318     0.015161
-7.77E-06    -0.010292    -0.095842
0.56344     0.044569     0.363318     0.015161
-7.77E-06    -0.016652    -0.248240

LOAD     -P3 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.092161    -0.563110     0.437699
-4.73E-06     0.246509    -0.376398
0.14086    -0.092161    -0.563110     0.437699
-4.73E-06     0.062911    -0.140195
0.28172    -0.092161    -0.563110     0.437699
-4.73E-06    -0.120687     0.096009
0.42258    -0.092161    -0.563110     0.437699
-4.73E-06    -0.304285     0.332212
0.56344    -0.092161    -0.563110     0.437699
-4.73E-06    -0.487884     0.568415

LOAD     -P4 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.056207     0.240242    -0.564794
 1.96E-05    -0.317822     0.115507
0.14086     0.056207     0.240242    -0.564794
 1.96E-05    -0.080912     0.014735
0.28172     0.056207     0.240242    -0.564794
 1.96E-05     0.155998    -0.086038
0.42258     0.056207     0.240242    -0.564794
 1.96E-05     0.392907    -0.186810
0.56344     0.056207     0.240242    -0.564794
 1.96E-05     0.629817    -0.287583

LOAD     -P5 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.017451     0.001834     0.106723
-7.51E-06     0.059837     0.016205
0.14086    -0.017451     0.001834     0.106723
-7.51E-06     0.015071     0.015436
0.28172    -0.017451     0.001834     0.106723
-7.51E-06    -0.029696     0.014666
0.42258    -0.017451     0.001834     0.106723
-7.51E-06    -0.074462     0.013897
0.56344    -0.017451     0.001834     0.106723
-7.51E-06    -0.119229     0.013128

LOAD  -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.098250     0.614632    -0.550856
 1.17E-05    -0.309692     0.508399
0.14086     0.098250     0.614632    -0.550856
 1.17E-05    -0.078629     0.250584
0.28172     0.098250     0.614632    -0.550856
 1.17E-05     0.152434    -0.007231
0.42258     0.098250     0.614632    -0.550856
 1.17E-05     0.383497    -0.265046
0.56344     0.098250     0.614632    -0.550856
 1.17E-05     0.614561    -0.522861

LOAD  -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.098250    -0.614632     0.550856
-1.17E-05     0.309692    -0.508399
0.14086    -0.098250    -0.614632     0.550856
-1.17E-05     0.078629    -0.250584
0.28172    -0.098250    -0.614632     0.550856
-1.17E-05    -0.152434     0.007231
0.42258    -0.098250    -0.614632     0.550856
-1.17E-05    -0.383497     0.265046
0.56344    -0.098250    -0.614632     0.550856
-1.17E-05    -0.614561     0.522861

COMB  SETTLE ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.098250     0.614632     0.550856
1.96E-05     0.309692     0.508399
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 473

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
0.14086     0.098250     0.614632     0.550856
1.96E-05     0.078629     0.250584
0.28172     0.098250     0.614632     0.550856
1.96E-05     0.152434    -0.007231
0.42258     0.098250     0.614632     0.550856
1.96E-05     0.392907     0.332212
0.56344     0.098250     0.614632     0.550856
1.96E-05     0.629817     0.568415

COMB  SETTLE ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.098250    -0.614632    -0.564794
-1.17E-05    -0.317822    -0.508399
0.14086    -0.098250    -0.614632    -0.564794
-1.17E-05    -0.080912     0.250584
0.28172    -0.098250    -0.614632    -0.564794
-1.17E-05    -0.152434    -0.103444
0.42258    -0.098250    -0.614632    -0.564794
-1.17E-05    -0.383497    -0.265046
0.56344    -0.098250    -0.614632    -0.564794
-1.17E-05    -0.614561    -0.522861

ELEM      232 ================== LENGTH
=     2.977485

LOAD     -A1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43661    -0.010917     0.003417    -0.006155
-4.91E-07    -0.006865     0.041511
0.57746    -0.010917     0.003417    -0.006155
-4.91E-07    -0.004284     0.040078
0.71831    -0.010917     0.003417    -0.006155
-4.91E-07    -0.001702     0.038645
0.85915    -0.010917     0.003417    -0.006155
-4.91E-07     0.000879     0.037212
1.00000    -0.010917     0.003417    -0.006155
-4.91E-07     0.003461     0.035779

LOAD     -P1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43661     0.050789    -0.016815     0.030560
 2.42E-06     0.033995    -0.195714
0.57746     0.050789    -0.016815     0.030560
 2.42E-06     0.021179    -0.188662
0.71831     0.050789    -0.016815     0.030560
 2.42E-06     0.008363    -0.181611
0.85915     0.050789    -0.016815     0.030560
 2.42E-06    -0.004452    -0.174559
1.00000     0.050789    -0.016815     0.030560
 2.42E-06    -0.017268    -0.167507

LOAD     -P2 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43661     0.082295     0.157084    -0.056835
-2.82E-06    -0.064190     0.428299
0.57746     0.082295     0.157084    -0.056835
-2.82E-06    -0.040354     0.362423
0.71831     0.082295     0.157084    -0.056835
-2.82E-06    -0.016519     0.296546
0.85915     0.082295     0.157084    -0.056835
-2.82E-06     0.007316     0.230669
1.00000     0.082295     0.157084    -0.056835
-2.82E-06     0.031151     0.164793

LOAD     -P3 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43661    -0.205486    -0.214704     0.502840
 4.78E-05     0.563896    -0.290079
0.57746    -0.205486    -0.214704     0.502840
 4.78E-05     0.353020    -0.200038
0.71831    -0.205486    -0.214704     0.502840
 4.78E-05     0.142143    -0.109998
0.85915    -0.205486    -0.214704     0.502840
 4.78E-05    -0.068733    -0.019957
1.00000    -0.205486    -0.214704     0.502840
 4.78E-05    -0.279610     0.070083
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 474

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43661     0.058968     0.017669    -0.559331
-5.32E-05    -0.626396    -0.118057
0.57746     0.058968     0.017669    -0.559331
-5.32E-05    -0.391828    -0.125466
0.71831     0.058968     0.017669    -0.559331
-5.32E-05    -0.157261    -0.132876
0.85915     0.058968     0.017669    -0.559331
-5.32E-05     0.077307    -0.140286
1.00000     0.058968     0.017669    -0.559331
-5.32E-05     0.311874    -0.147696

LOAD     -P5 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43661     0.024350     0.053348     0.088923
6.26E-06     0.099559     0.134038
0.57746     0.024350     0.053348     0.088923
6.26E-06     0.062267     0.111666
0.71831     0.024350     0.053348     0.088923
6.26E-06     0.024975     0.089293
0.85915     0.024350     0.053348     0.088923
6.26E-06    -0.012316     0.066921
1.00000     0.024350     0.053348     0.088923
6.26E-06    -0.049608     0.044548

LOAD  -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43661     0.130346     0.178170    -0.622322
-5.65E-05    -0.697450     0.351754
0.57746     0.130346     0.178170    -0.622322
-5.65E-05    -0.436466     0.277034
0.71831     0.130346     0.178170    -0.622322
-5.65E-05    -0.175482     0.202315
0.85915     0.130346     0.178170    -0.622322
-5.65E-05     0.085502     0.127595
1.00000     0.130346     0.178170    -0.622322
-5.65E-05     0.346486     0.052876

LOAD  -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43661    -0.130346    -0.178170     0.622322
 5.65E-05     0.697450    -0.351754
0.57746    -0.130346    -0.178170     0.622322
 5.65E-05     0.436466    -0.277034
0.71831    -0.130346    -0.178170     0.622322
 5.65E-05     0.175482    -0.202315
0.85915    -0.130346    -0.178170     0.622322
 5.65E-05     0.085502    -0.127595
1.00000    -0.130346    -0.178170     0.622322
 5.65E-05    -0.346486    -0.052876

COMB  SETTLE ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
0.43661     0.130346     0.178170     0.622322
5.65E-05     0.697450     0.428299
0.57746     0.130346     0.178170     0.622322
5.65E-05     0.436466     0.362423
0.71831     0.130346     0.178170     0.622322
5.65E-05     0.175482     0.296546
0.85915     0.130346     0.178170     0.622322
5.65E-05     0.085502     0.230669
1.00000     0.130346     0.178170     0.622322
5.65E-05     0.346486     0.164793

COMB  SETTLE ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
0.43661    -0.205486    -0.214704    -0.622322
-5.65E-05    -0.697450    -0.351754
0.57746    -0.205486    -0.214704    -0.622322
-5.65E-05    -0.436466    -0.277034
0.71831    -0.205486    -0.214704    -0.622322
-5.65E-05    -0.175482    -0.202315
0.85915    -0.205486    -0.214704    -0.622322
-5.65E-05    -0.085502    -0.174559
1.00000    -0.205486    -0.214704    -0.622322
-5.65E-05    -0.346486    -0.167507
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 475

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      233 ================== LENGTH
=     2.977499

LOAD     -A1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.011840     0.003374    -0.005794
 6.29E-07    -0.003172     0.036376
0.14085    -0.011840     0.003374    -0.005794
 6.29E-07    -0.000742     0.034961
0.28170    -0.011840     0.003374    -0.005794
 6.29E-07     0.001687     0.033546
0.42254    -0.011840     0.003374    -0.005794
 6.29E-07     0.004117     0.032132
0.56339    -0.011840     0.003374    -0.005794
 6.29E-07     0.006547     0.030717

LOAD     -P1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.055154    -0.016615     0.028224
-3.01E-06     0.015377    -0.170293
0.14085     0.055154    -0.016615     0.028224
-3.01E-06     0.003541    -0.163325
0.28170     0.055154    -0.016615     0.028224
-3.01E-06    -0.008296    -0.156357
0.42254     0.055154    -0.016615     0.028224
-3.01E-06    -0.020132    -0.149389
0.56339     0.055154    -0.016615     0.028224
-3.01E-06    -0.031969    -0.142421

LOAD     -P2 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.067822     0.157150    -0.057981
 1.49E-06    -0.032059     0.174047
0.14085     0.067822     0.157150    -0.057981
 1.49E-06    -0.007743     0.108142
0.28170     0.067822     0.157150    -0.057981
 1.49E-06     0.016572     0.042237
0.42254     0.067822     0.157150    -0.057981
 1.49E-06     0.040888    -0.023568
0.56339     0.067822     0.157150    -0.057981
 1.49E-06     0.065204    -0.089573

LOAD     -P3 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.191920    -0.212072     0.517243
-1.41E-05     0.291106     0.061153
0.14085    -0.191920    -0.212072     0.517243
-1.41E-05     0.074188     0.150091
0.28170    -0.191920    -0.212072     0.517243
-1.41E-05    -0.142731     0.239028
0.42254    -0.191920    -0.212072     0.517243
-1.41E-05    -0.359650     0.327966
0.56339    -0.191920    -0.212072     0.517243
-1.41E-05    -0.576568     0.416904

LOAD     -P4 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.062309     0.011762    -0.570692
 2.13E-05    -0.320919    -0.149392
0.14085     0.062309     0.011762    -0.570692
 2.13E-05    -0.081585    -0.154325
0.28170     0.062309     0.011762    -0.570692
 2.13E-05     0.157749    -0.159258
0.42254     0.062309     0.011762    -0.570692
 2.13E-05     0.397083    -0.164190
0.56339     0.062309     0.011762    -0.570692
 2.13E-05     0.636417    -0.169123

LOAD     -P5 ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.018475     0.056401     0.089001
-6.33E-06     0.049667     0.048109
0.14085     0.018475     0.056401     0.089001
-6.33E-06     0.012343     0.024456
0.28170     0.018475     0.056401     0.089001
-6.33E-06    -0.024982     0.000803
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 476

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
0.42254     0.018475     0.056401     0.089001
-6.33E-06    -0.062307    -0.022851
0.56339     0.018475     0.056401     0.089001
-6.33E-06    -0.099631    -0.046504

LOAD  -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000     0.118291     0.172286    -0.634468
 2.34E-05    -0.356151     0.061031
0.14085     0.118291     0.172286    -0.634468
 2.34E-05    -0.090071     0.011222
0.28170     0.118291     0.172286    -0.634468
 2.34E-05     0.176009    -0.083474
0.42254     0.118291     0.172286    -0.634468
 2.34E-05     0.442089    -0.155727
0.56339     0.118291     0.172286    -0.634468
 2.34E-05     0.708168    -0.227979

LOAD  -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.118291    -0.172286     0.634468
-2.34E-05     0.356151    -0.061031
0.14085    -0.118291    -0.172286     0.634468
-2.34E-05     0.090071    -0.011222
0.28170    -0.118291    -0.172286     0.634468
-2.34E-05     0.176009    -0.083474
0.42254    -0.118291    -0.172286     0.634468
-2.34E-05    -0.442089    -0.155727
0.56339    -0.118291    -0.172286     0.634468
```

```
-2.34E-05   -0.708168    0.227979

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.118291    0.172286    0.634468
2.34E-05   0.356151    0.174047
0.14085    0.118291    0.172286    0.634468
2.34E-05   0.090071    0.150091
0.28170    0.118291    0.172286    0.634468
2.34E-05   0.176009    0.239028
0.42254    0.118291    0.172286    0.634468
2.34E-05   0.442089    0.327966
0.56339    0.118291    0.172286    0.634468
2.34E-05   0.708168    0.416904

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
          T          M2         M3
0.00000   -0.191920   -0.212072   -0.634468
-2.34E-05  -0.356151   -0.170293
0.14085   -0.191920   -0.212072   -0.634468
-2.34E-05  -0.090071   -0.163325
0.28170   -0.191920   -0.212072   -0.634468
-2.34E-05  -0.176009   -0.159258
0.42254   -0.191920   -0.212072   -0.634468
-2.34E-05  -0.442089   -0.164190
0.56339   -0.191920   -0.212072   -0.634468
-2.34E-05  -0.708168   -0.227979

ELEM      234 ================== LENGTH
=    2.977215

LOAD     -A1 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43665   -0.024457    0.000269   -0.009685
-5.90E-07  -0.010781    0.051245
0.57749   -0.024457    0.000269   -0.009685
-5.90E-07  -0.006720    0.051132
0.71832   -0.024457    0.000269   -0.009685
-5.90E-07  -0.002659    0.051019
0.85916   -0.024457    0.000269   -0.009685
-5.90E-07   0.001402    0.050906
1.00000   -0.024457    0.000269   -0.009685
-5.90E-07   0.005463    0.050793
Program  SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       477

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43665    0.113950   -0.001677    0.047189
 2.91E-06   0.052471   -0.239772
0.57749    0.113950   -0.001677    0.047189
 2.91E-06   0.032685   -0.239069
0.71832    0.113950   -0.001677    0.047189
 2.91E-06   0.012898   -0.238366
0.85916    0.113950   -0.001677    0.047189
 2.91E-06  -0.006888   -0.237663
1.00000    0.113950   -0.001677    0.047189
 2.91E-06  -0.026675   -0.236960

LOAD     -P2 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43665    0.074250    0.065852   -0.109384
-3.65E-06  -0.122939    0.158818
0.57749    0.074250    0.065852   -0.109384
-3.65E-06  -0.077073    0.131206
0.71832    0.074250    0.065852   -0.109384
-3.65E-06  -0.031208    0.103594
0.85916    0.074250    0.065852   -0.109384
-3.65E-06   0.014657    0.075982
1.00000    0.074250    0.065852   -0.109384
-3.65E-06   0.060522    0.048370

LOAD     -P3 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43665   -0.271426    0.002846    0.542045
 4.77E-05   0.607883    0.467881
0.57749   -0.271426    0.002846    0.542045
 4.77E-05   0.380601    0.466668
0.71832   -0.271426    0.002846    0.542045
 4.77E-05   0.153320    0.465494
0.85916   -0.271426    0.002846    0.542045
 4.77E-05  -0.073962    0.464301
1.00000   -0.271426    0.002846    0.542045
 4.77E-05  -0.301244    0.463108

LOAD     -P4 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43665    0.033180   -0.193672   -0.531770
-5.21E-05  -0.595484   -0.724407
0.57749    0.033180   -0.193672   -0.531770
-5.21E-05  -0.372511   -0.643200
0.71832    0.033180   -0.193672   -0.531770
-5.21E-05  -0.149538   -0.561993
0.85916    0.033180   -0.193672   -0.531770
-5.21E-05   0.073435   -0.480785
1.00000    0.033180   -0.193672   -0.531770
-5.21E-05   0.296409   -0.399578

LOAD     -P5 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43665    0.074503    0.126382    0.061606
5.74E-06   0.068850    0.286236
0.57749    0.074503    0.126382    0.061606
5.74E-06   0.043018    0.233244
0.71832    0.074503    0.126382    0.061606
5.74E-06   0.017187    0.180252
0.85916    0.074503    0.126382    0.061606
5.74E-06  -0.008645    0.127259
1.00000    0.074503    0.126382    0.061606
5.74E-06  -0.034476    0.074267

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43665    0.082972   -0.127551   -0.650839
-5.64E-05  -0.729204   -0.514345
0.57749    0.082972   -0.127551   -0.650839
-5.64E-05  -0.456304   -0.460862
0.71832    0.082972   -0.127551   -0.650839
-5.64E-05  -0.183405   -0.407380
0.85916    0.082972   -0.127551   -0.650839
-5.64E-05   0.089495   -0.353897
1.00000    0.082972   -0.127551   -0.650839
-5.64E-05   0.362394   -0.300415
Program  SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       478

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43665   -0.082972    0.127551    0.650839
 5.64E-05   0.729204    0.514345
0.57749   -0.082972    0.127551    0.650839
 5.64E-05   0.456304    0.460862
0.71832   -0.082972    0.127551    0.650839
 5.64E-05   0.183405    0.407380
0.85916   -0.082972    0.127551    0.650839
 5.64E-05   -0.089495   0.353897
1.00000   -0.082972    0.127551    0.650839
 5.64E-05   -0.362394   0.300415

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
          T          M2         M3
0.43665    0.113950    0.127551    0.650839
5.64E-05   0.729204    0.514345
0.57749    0.113950    0.127551    0.650839
5.64E-05   0.456304    0.466688
0.71832    0.113950    0.127551    0.650839
5.64E-05   0.183405    0.465494
0.85916    0.113950    0.127551    0.650839
5.64E-05   0.089495    0.464301
1.00000    0.113950    0.127551    0.650839
5.64E-05   0.362394    0.463108

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
          T          M2         M3
0.43665   -0.271426   -0.193672   -0.650839
-5.64E-05  -0.729204   -0.724407
0.57749   -0.271426   -0.193672   -0.650839
-5.64E-05  -0.456304   -0.643200
0.71832   -0.271426   -0.193672   -0.650839
-5.64E-05  -0.183405   -0.561993
0.85916   -0.271426   -0.193672   -0.650839
-5.64E-05  -0.089495   -0.480785
1.00000   -0.271426   -0.193672   -0.650839
-5.64E-05  -0.362394   -0.399578

ELEM      235 ================== LENGTH
=    2.977225

LOAD     -A1 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000   -0.025116    0.000667   -0.009215
 1.35E-06  -0.005076    0.051198
0.14084   -0.025116    0.000667   -0.009215
 1.35E-06  -0.001212    0.050919
0.28168   -0.025116    0.000667   -0.009215
 1.35E-06   0.002652    0.050639
0.42251   -0.025116    0.000667   -0.009215
 1.35E-06   0.006515    0.050359
0.56335   -0.025116    0.000667   -0.009215
 1.35E-06   0.010379    0.050080

LOAD     -P1 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.117066   -0.003533    0.044532
-6.37E-06   0.024480   -0.238848
0.14084    0.117066   -0.003533    0.044532
-6.37E-06   0.005807   -0.237366
0.28168    0.117066   -0.003533    0.044532
-6.37E-06  -0.012865   -0.235885
0.42251    0.117066   -0.003533    0.044532
-6.37E-06  -0.031538   -0.234404
0.56335    0.117066   -0.003533    0.044532
-6.37E-06  -0.050210   -0.232922

LOAD     -P2 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.064100    0.071368   -0.111978
 1.02E-05  -0.062615    0.054625
0.14084    0.064100    0.071368   -0.111978
 1.02E-05  -0.015662    0.024699
0.28168    0.064100    0.071368   -0.111978
 1.02E-05   0.031291   -0.005226
Program  SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       479

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
          T          M2         M3
0.42251    0.064100    0.071368   -0.111978
 1.02E-05   0.078244   -0.035151
0.56335    0.064100    0.071368   -0.111978
 1.02E-05   0.125197   -0.065076

LOAD     -P3 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000   -0.266243   -0.004108    0.558933
-1.97E-05   0.314843    0.459560
0.14084   -0.266243   -0.004108    0.558933
-1.97E-05   0.080479    0.461282
0.28168   -0.266243   -0.004108    0.558933
-1.97E-05  -0.153885    0.463005
0.42251   -0.266243   -0.004108    0.558933
-1.97E-05  -0.388249    0.464727
0.56335   -0.266243   -0.004108    0.558933
-1.97E-05  -0.622613    0.466449

LOAD     -P4 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.044023   -0.190898   -0.542082
 1.64E-05  -0.304606   -0.405711
0.14084    0.044023   -0.190898   -0.542082
 1.64E-05  -0.077307   -0.325666
0.28168    0.044023   -0.190898   -0.542082
 1.64E-05   0.149991   -0.245621
0.42251    0.044023   -0.190898   -0.542082
 1.64E-05   0.377289   -0.165576
0.56335    0.044023   -0.190898   -0.542082
 1.64E-05   0.604587   -0.085532

LOAD     -P5 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.066170    0.126503    0.059810
-1.88E-06   0.032973    0.079176
0.14084    0.066170    0.126503    0.059810
-1.88E-06   0.007895    0.026132
0.28168    0.066170    0.126503    0.059810
-1.88E-06  -0.017184   -0.026912
0.42251    0.066170    0.126503    0.059810
-1.88E-06  -0.042263   -0.079955
0.56335    0.066170    0.126503    0.059810
-1.88E-06  -0.067341   -0.132999

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.083007   -0.118863   -0.663274
 2.79E-05  -0.372296   -0.299888
0.14084    0.083007   -0.118863   -0.663274
 2.79E-05  -0.094181   -0.250048
0.28168    0.083007   -0.118863   -0.663274
 2.79E-05   0.183934   -0.200208
0.42251    0.083007   -0.118863   -0.663274
 2.79E-05   0.462049   -0.150368
0.56335    0.083007   -0.118863   -0.663274
 2.79E-05   0.740164   -0.100528

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000   -0.083007    0.118863    0.663274
-2.79E-05   0.372296    0.299888
0.14084   -0.083007    0.118863    0.663274
-2.79E-05   0.094181    0.250048
0.28168   -0.083007    0.118863    0.663274
-2.79E-05  -0.183934    0.200208
0.42251   -0.083007    0.118863    0.663274
-2.79E-05  -0.462049    0.150368
0.56335   -0.083007    0.118863    0.663274
-2.79E-05  -0.740164    0.100528

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.117066    0.126503    0.663274
2.79E-05   0.372296    0.459560
Program  SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       480

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
          T          M2         M3
0.14084    0.117066    0.126503    0.663274
2.79E-05   0.094181    0.461282
0.28168    0.117066    0.126503    0.663274
2.79E-05   0.183934    0.463005
0.42251    0.117066    0.126503    0.663274
2.79E-05   0.462049    0.464727
0.56335    0.117066    0.126503    0.663274
2.79E-05   0.740164    0.466449

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
          T          M2         M3
0.00000   -0.266243   -0.190898   -0.663274
-2.79E-05  -0.372296   -0.405711
0.14084   -0.266243   -0.190898   -0.663274
-2.79E-05  -0.094181   -0.325666
0.28168   -0.266243   -0.190898   -0.663274
-2.79E-05   0.183934   -0.245621
0.42251   -0.266243   -0.190898   -0.663274
-2.79E-05  -0.462049   -0.234404
0.56335   -0.266243   -0.190898   -0.663274
-2.79E-05  -0.740164   -0.232922

ELEM      236 ================== LENGTH
=    2.976966

LOAD     -A1 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43669   -0.020517   -0.002119   -0.011738
-4.64E-07  -0.013084    0.070855
0.57751   -0.020517   -0.002119   -0.011738
-4.64E-07  -0.008163    0.071743
0.71834   -0.020517   -0.002119   -0.011738
-4.64E-07  -0.003242    0.072632
0.85917   -0.020517   -0.002119   -0.011738
-4.64E-07   0.001679    0.073520
1.00000   -0.020517   -0.002119   -0.011738
-4.64E-07   0.006600    0.074409

LOAD     -P1 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43669    0.095689    0.009683    0.056868
2.33E-06   0.063349   -0.330230
0.57751    0.095689    0.009683    0.056868
2.33E-06   0.039507   -0.334289
0.71834    0.095689    0.009683    0.056868
2.33E-06   0.015666   -0.338349
0.85917    0.095689    0.009683    0.056868
2.33E-06  -0.008175   -0.342409
1.00000    0.095689    0.009683    0.056868
2.33E-06  -0.032017   -0.346468

LOAD     -P2 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43669    0.043294   -0.005250   -0.142588
-6.67E-07  -0.160092   -0.077486
0.57751    0.043294   -0.005250   -0.142588
-6.67E-07  -0.100313   -0.075285
0.71834    0.043294   -0.005250   -0.142588
-6.67E-07  -0.040535   -0.073084
0.85917    0.043294   -0.005250   -0.142588
-6.67E-07   0.019244   -0.070883
1.00000    0.043294   -0.005250   -0.142588
-6.67E-07   0.079023   -0.068681

LOAD     -P3 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43669   -0.190806    0.167789    0.546237
 4.19E-05   0.612160    1.253850
0.57751   -0.190806    0.167789    0.546237
 4.19E-05   0.154150    1.183505
0.71834   -0.190806    0.167789    0.546237
 4.19E-05   0.154150    1.113161
0.85917   -0.190806    0.167789    0.546237
 4.19E-05  -0.074855    1.042817
1.00000   -0.190806    0.167789    0.546237
 4.19E-05  -0.303860    0.972473
Program  SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       481

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43669    0.005468   -0.375989   -0.471315
-4.81E-05  -0.527171   -1.400384
0.57751    0.005468   -0.375989   -0.471315
-4.81E-05  -0.329576   -1.242754
0.71834    0.005468   -0.375989   -0.471315
-4.81E-05  -0.131982   -1.085123
0.85917    0.005468   -0.375989   -0.471315
-4.81E-05   0.065613   -0.927493
1.00000    0.005468   -0.375989   -0.471315
-4.81E-05   0.263208   -0.769863

LOAD     -P5 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43669    0.066872    0.205886    0.022536
5.09E-06   0.024838    0.483396
0.57751    0.066872    0.205886    0.022536
5.09E-06   0.015390    0.397080
0.71834    0.066872    0.205886    0.022536
5.09E-06   0.005942    0.310763
0.85917    0.066872    0.205886    0.022536
5.09E-06  -0.003506    0.224447
1.00000    0.066872    0.205886    0.022536
5.09E-06  -0.012953    0.138131

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43669    0.028245   -0.383359   -0.625640
-4.93E-05  -0.700347   -1.407015
0.57751    0.028245   -0.383359   -0.625640
-4.93E-05  -0.438053   -1.246295
0.71834    0.028245   -0.383359   -0.625640
-4.93E-05  -0.175758   -1.085575
0.85917    0.028245   -0.383359   -0.625640
-4.93E-05   0.086536   -0.924855
1.00000    0.028245   -0.383359   -0.625640
-4.93E-05   0.348830   -0.764136

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.43669   -0.028245    0.383359    0.625640
 4.93E-05   0.700347    1.407015
0.57751   -0.028245    0.383359    0.625640
 4.93E-05   0.438053    1.246295
0.71834   -0.028245    0.383359    0.625640
 4.93E-05   0.175758    1.085575
0.85917   -0.028245    0.383359    0.625640
 4.93E-05  -0.086536    0.924855
1.00000   -0.028245    0.383359    0.625640
 4.93E-05  -0.348830    0.764136

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
          T          M2         M3
0.43669    0.095689    0.383359    0.625640
4.93E-05   0.700347    1.407015
0.57751    0.095689    0.383359    0.625640
4.93E-05   0.438053    1.246295
0.71834    0.095689    0.383359    0.625640
4.93E-05   0.175758    1.113161
0.85917    0.095689    0.383359    0.625640
4.93E-05   0.086536    1.042817
1.00000    0.095689    0.383359    0.625640
4.93E-05   0.348830    0.972473

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
          T          M2         M3
0.43669   -0.190806   -0.383359   -0.625640
-4.93E-05  -0.700347   -1.407015
0.57751   -0.190806   -0.383359   -0.625640
-4.93E-05  -0.438053   -1.246295
0.71834   -0.190806   -0.383359   -0.625640
-4.93E-05  -0.175758   -1.085575
0.85917   -0.190806   -0.383359   -0.625640
-4.93E-05  -0.086536   -0.927493
1.00000   -0.190806   -0.383359   -0.625640
-4.93E-05  -0.348830   -0.769863
Program  SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       482

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      237 ================== LENGTH
=    2.978023

LOAD     -A1 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000   -0.020866   -0.001943   -0.011543
 1.68E-06  -0.006392    0.074655
0.14087   -0.020866   -0.001943   -0.011543
 1.68E-06  -0.001550    0.075470
0.28173   -0.020866   -0.001943   -0.011543
 1.68E-06   0.003293    0.076285
0.42260   -0.020866   -0.001943   -0.011543
 1.68E-06   0.008135    0.077100
0.56347   -0.020866   -0.001943   -0.011543
 1.68E-06   0.012978    0.077915

LOAD     -P1 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.097347    0.008860    0.055631
-7.93E-06   0.030074   -0.347615
0.14087    0.097347    0.008860    0.055631
-7.93E-06   0.007436   -0.351331
0.28173    0.097347    0.008860    0.055631
-7.93E-06  -0.015902   -0.355048
0.42260    0.097347    0.008860    0.055631
-7.93E-06  -0.039239   -0.358765
0.56347    0.097347    0.008860    0.055631
-7.93E-06  -0.062577   -0.362481

LOAD     -P2 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.037809   -0.000525   -0.145320
 1.24E-05  -0.081382   -0.064888
0.14087    0.037809   -0.000525   -0.145320
 1.24E-05  -0.020419   -0.064668
0.28173    0.037809   -0.000525   -0.145320
 1.24E-05   0.040543   -0.064447
0.42260    0.037809   -0.000525   -0.145320
 1.24E-05   0.101506   -0.064227
0.56347    0.037809   -0.000525   -0.145320
 1.24E-05   0.162469   -0.064007

LOAD     -P3 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000   -0.198312    0.240771    0.559641
-1.68E-05   0.315438    0.974243
0.14087   -0.198312    0.240771    0.559641
-1.68E-05   0.080665    0.873238
0.28173   -0.198312    0.240771    0.559641
-1.68E-05  -0.154108    0.772233
0.42260   -0.198312    0.240771    0.559641
-1.68E-05  -0.388880    0.671228
0.56347   -0.198312    0.240771    0.559641
-1.68E-05  -0.623653    0.570223

LOAD     -P4 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.032266   -0.534461   -0.478390
 8.12E-06  -0.269107   -0.781468
0.14087    0.032266   -0.534461   -0.478390
 8.12E-06  -0.068420   -0.557259
0.28173    0.032266   -0.534461   -0.478390
 8.12E-06   0.132268   -0.333049
0.42260    0.032266   -0.534461   -0.478390
 8.12E-06   0.332955   -0.108840
0.56347    0.032266   -0.534461   -0.478390
 8.12E-06   0.533642    0.115370

LOAD     -P5 ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.051756    0.287299    0.019982
2.50E-06   0.010671    0.145073
0.14087    0.051756    0.287299    0.019982
2.50E-06   0.002288    0.024549
0.28173    0.051756    0.287299    0.019982
2.50E-06  -0.006094   -0.095974
Program  SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       483

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
          T          M2         M3
0.42260    0.051756    0.287299    0.019982
2.50E-06  -0.014477   -0.216497
0.56347    0.051756    0.287299    0.019982
2.50E-06  -0.022859   -0.337021

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
          T          M2         M3
0.00000    0.049209   -0.536929   -0.635254
 2.22E-05  -0.356882   -0.771701
0.14087    0.049209   -0.536929   -0.635254
 2.22E-05  -0.090389   -0.546456
0.28173    0.049209   -0.536929   -0.635254
 2.22E-05   0.176103   -0.321211
0.42260    0.049209   -0.536929   -0.635254
 2.22E-05   0.442596   -0.095966
0.56347    0.049209   -0.536929   -0.635254
 2.22E-05   0.709089    0.129278

LOAD  -2N+2- ------------------
```

REL DIST P V2 V3
T M2 M3
0.00000 -0.049209 0.536929 0.635254
-2.22E-05 -0.356882 0.771701
0.14087 -0.049209 0.536929 0.635254
-2.22E-05 0.090389 0.546456
0.28173 -0.049209 0.536929 0.635254
-2.22E-05 -0.176103 0.321211
0.42260 -0.049209 0.536929 0.635254
-2.22E-05 -0.442596 0.095966
0.56347 -0.049209 0.536929 0.635254
-2.22E-05 -0.709089 -0.129278

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.097347 0.536929 0.635254
2.22E-05 0.356882 0.974243
0.14087 0.097347 0.536929 0.635254
2.22E-05 0.090389 0.873238
0.28173 0.097347 0.536929 0.635254
2.22E-05 0.176103 0.772233
0.42260 0.097347 0.536929 0.635254
2.22E-05 0.442596 0.671228
0.56347 0.097347 0.536929 0.635254
2.22E-05 0.709089 0.570223

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.198312 -0.536929 -0.635254
-2.22E-05 -0.356882 -0.781468
0.14087 -0.198312 -0.536929 -0.635254
-2.22E-05 -0.090389 -0.557259
0.28173 -0.198312 -0.536929 -0.635254
-2.22E-05 -0.176103 -0.355048
0.42260 -0.198312 -0.536929 -0.635254
-2.22E-05 -0.442596 -0.358765
0.56347 -0.198312 -0.536929 -0.635254
-2.22E-05 -0.709089 -0.362481

ELEM 238 ========== LENGTH = 2.977840

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43656 0.053296 0.004018 -0.011940
-8.47E-07 -0.013396 0.115055
0.57742 0.053296 0.004018 -0.011940
-8.47E-07 -0.008388 0.113370
0.71828 0.053296 0.004018 -0.011940
-8.47E-07 -0.003379 0.111685
0.85914 0.053296 0.004018 -0.011940
-8.47E-07 0.001629 0.109999
1.00000 0.053296 0.004018 -0.011940
-8.47E-07 0.006638 0.108314
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
484

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43656 -0.247412 -0.018561 0.057853
4.12E-06 0.064864 -0.535044
0.57742 -0.247412 -0.018561 0.057853
4.12E-06 0.040596 -0.527259
0.71828 -0.247412 -0.018561 0.057853
4.12E-06 0.016329 -0.519473
0.85914 -0.247412 -0.018561 0.057853
4.12E-06 -0.007938 -0.511688
1.00000 -0.247412 -0.018561 0.057853
4.12E-06 -0.032205 -0.503903

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43656 -0.092996 -0.051582 -0.155630
-4.49E-06 -0.174489 -0.292361
0.57742 -0.092996 -0.051582 -0.155630
-4.49E-06 -0.133208 -0.270724
0.71828 -0.092996 -0.051582 -0.155630
-4.49E-06 -0.043927 -0.249087
0.85914 -0.092996 -0.051582 -0.155630
-4.49E-06 0.021354 -0.227451
1.00000 -0.092996 -0.051582 -0.155630
-4.49E-06 0.086634 -0.205814

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43656 0.530131 0.563419 0.521418
4.31E-05 0.583746 2.451038
0.57742 0.530131 0.563419 0.521418
4.31E-05 0.365032 2.214707
0.71828 0.530131 0.563419 0.521418
4.31E-05 0.146318 1.978375
0.85914 0.530131 0.563419 0.521418
4.31E-05 -0.072396 1.742043
1.00000 0.530131 0.563419 0.521418
4.31E-05 -0.291110 1.505711

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43656 -0.061981 -0.958409 -0.388300
-4.52E-05 -0.434433 -2.594988
0.57742 -0.061981 -0.958409 -0.388300
-4.52E-05 -0.271557 -2.192974
0.71828 -0.061981 -0.958409 -0.388300
-4.52E-05 -0.108680 -1.790960
0.85914 -0.061981 -0.958409 -0.388300
-4.52E-05 0.054196 -1.388945
1.00000 -0.061981 -0.958409 -0.388300
-4.52E-05 0.217073 -0.986931

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43656 -0.181037 0.461115 -0.023400
3.31E-06 -0.026292 0.856300
0.57742 -0.181037 0.461115 -0.023400
3.31E-06 -0.016476 0.662880
0.71828 -0.181037 0.461115 -0.023400
3.31E-06 -0.006661 0.469461
0.85914 -0.181037 0.461115 -0.023400
3.31E-06 0.003155 0.276042
1.00000 -0.181037 0.461115 -0.023400
3.31E-06 0.012970 0.082622

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43656 -0.101682 -1.005973 -0.555871
-5.06E-05 -0.622318 -2.772294
0.57742 -0.101682 -1.005973 -0.555871
-5.06E-05 -0.389152 -2.350328
0.71828 -0.101682 -1.005973 -0.555871
-5.06E-05 -0.155986 -1.928362
0.85914 -0.101682 -1.005973 -0.555871
-5.06E-05 0.077179 -1.506397
1.00000 -0.101682 -1.005973 -0.555871
-5.06E-05 0.310345 -1.084431
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
485

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43656 0.101682 1.005973 0.555871
5.06E-05 0.622318 2.772294
0.57742 0.101682 1.005973 0.555871
5.06E-05 0.389152 2.350328
0.71828 0.101682 1.005973 0.555871
5.06E-05 0.155986 1.928362
0.85914 0.101682 1.005973 0.555871
5.06E-05 -0.077179 1.506397
1.00000 0.101682 1.005973 0.555871
5.06E-05 -0.310345 1.084431

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43656 0.530131 1.005973 0.555871
5.06E-05 0.622318 2.772294
0.57742 0.530131 1.005973 0.555871
5.06E-05 0.389152 2.350328
0.71828 0.530131 1.005973 0.555871
5.06E-05 0.155986 1.978375
0.85914 0.530131 1.005973 0.555871
5.06E-05 0.077179 1.742043
1.00000 0.530131 1.005973 0.555871
5.06E-05 0.310345 1.505711

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43656 -0.247412 -1.005973 -0.555871
-5.06E-05 -0.622318 -2.772294
0.57742 -0.247412 -1.005973 -0.555871
-5.06E-05 -0.389152 -2.350328
0.71828 -0.247412 -1.005973 -0.555871
-5.06E-05 -0.155986 -1.928362
0.85914 -0.247412 -1.005973 -0.555871
-5.06E-05 -0.077179 -1.506397
1.00000 -0.247412 -1.005973 -0.555871
-5.06E-05 -0.310345 -1.084431

ELEM 239 ========== LENGTH = 2.976904

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.053361 0.001766 -0.013063
2.40E-06 -0.007352 0.108358
0.14083 0.053361 0.001766 -0.013063
2.40E-06 -0.001876 0.107617
0.28165 0.053361 0.001766 -0.013063
2.40E-06 0.003601 0.106877
0.42248 0.053361 0.001766 -0.013063
2.40E-06 0.009077 0.106136
0.56330 0.053361 0.001766 -0.013063
2.40E-06 0.014553 0.105396

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.247706 -0.008064 0.062853
-1.13E-05 0.035338 -0.504106
0.14083 -0.247706 -0.008064 0.062853
-1.13E-05 0.009988 -0.500726
0.28165 -0.247706 -0.008064 0.062853
-1.13E-05 -0.017362 -0.497345
0.42248 -0.247706 -0.008064 0.062853
-1.13E-05 -0.043711 -0.493965
0.56330 -0.247706 -0.008064 0.062853
-1.13E-05 -0.070061 -0.490584

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.091460 -0.092224 -0.157512
1.85E-05 -0.088316 -0.205193
0.14083 -0.091460 -0.092224 -0.157512
1.85E-05 -0.022283 -0.166530
0.28165 -0.091460 -0.092224 -0.157512
1.85E-05 0.043750 -0.127868
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
486

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42248 -0.091460 -0.092224 -0.157512
1.85E-05 0.109784 -0.089205
0.56330 -0.091460 -0.092224 -0.157512
1.85E-05 0.175817 -0.050542

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.520621 0.560446 0.525202
-1.87E-05 0.295449 1.510769
0.14083 0.520621 0.560446 0.525202
-1.87E-05 0.075271 1.275815
0.28165 0.520621 0.560446 0.525202
-1.87E-05 -0.144908 1.040862
0.42248 0.520621 0.560446 0.525202
-1.87E-05 -0.365086 0.805908
0.56330 0.520621 0.560446 0.525202
-1.87E-05 -0.585265 0.570954

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.046364 -0.861126 -0.394407
3.11E-06 -0.221771 -0.998374
0.14083 -0.046364 -0.861126 -0.394407
3.11E-06 -0.056426 -0.637367
0.28165 -0.046364 -0.861126 -0.394407
3.11E-06 0.108920 -0.276360
0.42248 -0.046364 -0.861126 -0.394407
3.11E-06 0.274266 0.084646
0.56330 -0.046364 -0.861126 -0.394407
3.11E-06 0.439611 0.445653

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.188451 0.399201 -0.023074
5.97E-06 -0.013348 0.088546
0.14083 -0.188451 0.399201 -0.023074
5.97E-06 -0.003675 -0.078810
0.28165 -0.188451 0.399201 -0.023074
5.97E-06 0.005998 -0.246165
0.42248 -0.188451 0.399201 -0.023074
5.97E-06 0.015671 -0.413521
0.56330 -0.188451 0.399201 -0.023074
5.97E-06 0.025344 -0.580877

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.084464 -0.951584 -0.564981
2.40E-05 -0.317439 -1.095209
0.14083 -0.084464 -0.951584 -0.564981
2.40E-05 -0.080584 -0.696280
0.28165 -0.084464 -0.951584 -0.564981
2.40E-05 0.156271 -0.297351
0.42248 -0.084464 -0.951584 -0.564981
2.40E-05 0.393126 0.101578
0.56330 -0.084464 -0.951584 -0.564981
2.40E-05 0.629981 0.500506

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.084464 0.951584 0.564981
-2.40E-05 0.317439 1.095209
0.14083 0.084464 0.951584 0.564981
-2.40E-05 0.080584 0.696280
0.28165 0.084464 0.951584 0.564981
-2.40E-05 -0.156271 0.297351
0.42248 0.084464 0.951584 0.564981
-2.40E-05 -0.393126 -0.101578
0.56330 0.084464 0.951584 0.564981
-2.40E-05 -0.629981 -0.500506

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.520621 0.951584 0.564981
2.40E-05 0.317439 1.510769
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
487

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14083 0.520621 0.951584 0.564981
2.40E-05 0.080584 1.275815
0.28165 0.520621 0.951584 0.564981
2.40E-05 0.156271 1.040862
0.42248 0.520621 0.951584 0.564981
2.40E-05 0.393126 0.805908
0.56330 0.520621 0.951584 0.564981
2.40E-05 0.629981 0.570954

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.247706 -0.951584 -0.564981
-2.40E-05 -0.317439 -1.095209
0.14083 -0.247706 -0.951584 -0.564981
-2.40E-05 -0.080584 -0.696280
0.28165 -0.247706 -0.951584 -0.564981
-2.40E-05 -0.156271 -0.497345
0.42248 -0.247706 -0.951584 -0.564981
-2.40E-05 -0.393126 -0.493965
0.56330 -0.247706 -0.951584 -0.564981
-2.40E-05 -0.629981 -0.580877

ELEM 240 ========== LENGTH = 2.976798

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43671 0.271916 0.027928 -0.010659
-6.25E-07 -0.012150 0.206850
0.57753 0.271916 0.027928 -0.010659
-6.25E-07 -0.007682 0.195142
0.71836 0.271916 0.027928 -0.010659
-6.25E-07 -0.003213 0.183435
0.85918 0.271916 0.027928 -0.010659
-6.25E-07 0.001255 0.171727
1.00000 0.271916 0.027928 -0.010659
-6.25E-07 0.005723 0.160020

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43671 -1.264045 -0.129106 0.051850
3.09E-06 0.059033 -0.960721
0.57753 -1.264045 -0.129106 0.051850
3.09E-06 0.037297 -0.906599
0.71836 -1.264045 -0.129106 0.051850
3.09E-06 0.015561 -0.852478
0.85918 -1.264045 -0.129106 0.051850
3.09E-06 -0.006174 -0.798357
1.00000 -1.264045 -0.129106 0.051850
3.09E-06 -0.027910 -0.744235

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43671 -0.445734 -0.173808 -0.152699
-1.24E-06 -0.171042 -0.614608
0.57753 -0.445734 -0.173808 -0.152699
-1.24E-06 -0.107031 -0.541747
0.71836 -0.445734 -0.173808 -0.152699
-1.24E-06 -0.043020 -0.468887
0.85918 -0.445734 -0.173808 -0.152699
-1.24E-06 0.020991 -0.396027
1.00000 -0.445734 -0.173808 -0.152699
-1.24E-06 0.085003 -0.323166

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43671 2.587790 1.210670 0.475442
3.39E-05 0.531178 4.257247
0.57753 2.587790 1.210670 0.475442
3.39E-05 0.331874 3.749735
0.71836 2.587790 1.210670 0.475442
3.39E-05 0.132569 3.242223
0.85918 2.587790 1.210670 0.475442
3.39E-05 -0.066736 2.734711
1.00000 2.587790 1.210670 0.475442
3.39E-05 -0.266041 2.227199
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
488

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43671 -0.250236 -1.574202 -0.290031
-3.39E-05 -0.326695 -4.040100
0.57753 -0.250236 -1.574202 -0.290031
-3.39E-05 -0.203114 -3.380195
0.71836 -0.250236 -1.574202 -0.290031
-3.39E-05 -0.081533 -2.720291
0.85918 -0.250236 -1.574202 -0.290031
-3.39E-05 0.040048 -2.060386
1.00000 -0.250236 -1.574202 -0.290031
-3.39E-05 0.161629 -1.400481

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43671 -0.899691 0.638519 -0.073903
-1.18E-06 -0.082325 1.151331
0.57753 -0.899691 0.638519 -0.073903
-1.18E-06 -0.051344 0.883664
0.71836 -0.899691 0.638519 -0.073903
-1.18E-06 -0.020364 0.615997
0.85918 -0.899691 0.638519 -0.073903
-1.18E-06 0.010616 0.348331
1.00000 -0.899691 0.638519 -0.073903
-1.18E-06 0.041596 0.080664

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43671 -0.424054 -1.720082 -0.453389
-3.58E-05 -0.507887 -4.447858
0.57753 -0.424054 -1.720082 -0.453389
-3.58E-05 -0.317826 -3.726800
0.71836 -0.424054 -1.720082 -0.453389
-3.58E-05 -0.127766 -3.005743
0.85918 -0.424054 -1.720082 -0.453389
-3.58E-05 0.062294 -2.284685
1.00000 -0.424054 -1.720082 -0.453389
-3.58E-05 0.252354 -1.563628

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43671 0.424054 1.720082 0.453389
3.58E-05 0.507887 4.447858
0.57753 0.424054 1.720082 0.453389
3.58E-05 0.317826 3.726800
0.71836 0.424054 1.720082 0.453389
3.58E-05 0.127766 3.005743
0.85918 0.424054 1.720082 0.453389
3.58E-05 -0.062294 2.284685
1.00000 0.424054 1.720082 0.453389
3.58E-05 -0.252354 1.563628

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43671 2.587790 1.720082 0.475442
3.58E-05 0.531178 4.447858
0.57753 2.587790 1.720082 0.475442
3.58E-05 0.331874 3.749735
0.71836 2.587790 1.720082 0.475442
3.58E-05 0.132569 3.242223
0.85918 2.587790 1.720082 0.475442
3.58E-05 -0.062294 2.734711
1.00000 2.587790 1.720082 0.475442
3.58E-05 -0.252354 2.227199

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43671 -1.264045 -1.720082 -0.453389
-3.58E-05 -0.507887 -4.447858
0.57753 -1.264045 -1.720082 -0.453389
-3.58E-05 -0.317826 -3.726800
0.71836 -1.264045 -1.720082 -0.453389
-3.58E-05 -0.127766 -3.005743
0.85918 -1.264045 -1.720082 -0.453389
-3.58E-05 -0.066736 -2.284685
1.00000 -1.264045 -1.720082 -0.453389
-3.58E-05 -0.266041 -1.563628
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
489

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 241 ========== LENGTH = 2.977854

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.272264 0.025543 -0.013967
2.46E-06 -0.008022 0.159932
0.14086 0.272264 0.025543 -0.013967
2.46E-06 -0.002163 0.149217
0.28172 0.272264 0.025543 -0.013967
2.46E-06 0.003696 0.138503
0.42258 0.272264 0.025543 -0.013967
2.46E-06 0.009555 0.127789
0.56344 0.272264 0.025543 -0.013967
2.46E-06 0.015414 0.117074

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -1.265695 -0.118000 0.067085
-1.16E-05 0.038471 -0.743823
0.14086 -1.265695 -0.118000 0.067085
-1.16E-05 0.010332 -0.694326
0.28172 -1.265695 -0.118000 0.067085
-1.16E-05 -0.017808 -0.644829
0.42258 -1.265695 -0.118000 0.067085
-1.16E-05 -0.045948 -0.595333
0.56344 -1.265695 -0.118000 0.067085
-1.16E-05 -0.074087 -0.545836

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.441280 -0.186281 -0.150278
1.51E-05 -0.083691 -0.324500
0.14086 -0.441280 -0.186281 -0.150278
1.51E-05 -0.020655 -0.246362
0.28172 -0.441280 -0.186281 -0.150278
1.51E-05 0.042381 -0.168224
0.42258 -0.441280 -0.186281 -0.150278
1.51E-05 0.105418 -0.090086
0.56344 -0.441280 -0.186281 -0.150278
1.51E-05 0.168454 -0.011948

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 2.565841 1.260596 0.454678
-1.06E-05 0.252955 2.236145
0.14086 2.565841 1.260596 0.454678
-1.06E-05 0.062234 1.707371
0.28172 2.565841 1.260596 0.454678
-1.06E-05 -0.128487 1.178598
0.42258 2.565841 1.260596 0.454678
-1.06E-05 -0.319208 0.649824
0.56344 2.565841 1.260596 0.454678
-1.06E-05 -0.509929 0.121050

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.217455 -1.669250 -0.290863
-2.70E-06 -0.162648 -1.415665
0.14086 -0.217455 -1.669250 -0.290863
-2.70E-06 -0.040641 -0.715476
0.28172 -0.217455 -1.669250 -0.290863
-2.70E-06 0.081365 -0.015287
0.42258 -0.217455 -1.669250 -0.290863
-2.70E-06 0.203371 1.684903
0.56344 -0.217455 -1.669250 -0.290863
-2.70E-06 0.325378 1.385092

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.913675 0.687392 -0.066655
7.31E-06 -0.037065 0.087911
0.14086 -0.913675 0.687392 -0.066655
7.31E-06 -0.009106 -0.200425
0.28172 -0.913675 0.687392 -0.066655
7.31E-06 0.018853 -0.488761
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
490

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42258 -0.913675 0.687392 -0.066655
7.31E-06 0.046812 -0.777097
0.56344 -0.913675 0.687392 -0.066655
7.31E-06 0.074771 -1.065433

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3

```
 0.00000    -0.386471    -1.829987    -0.455109
 1.49E-05    -0.254361    -1.580233
 0.14086    -0.386471    -1.829987    -0.455109
 1.49E-05    -0.063459    -0.812620
 0.28172    -0.386471    -1.829987    -0.455109
 1.49E-05     0.127442    -0.045008
 0.42258    -0.386471    -1.829987    -0.455109
 1.49E-05     0.318344     0.722605
 0.56344    -0.386471    -1.829987    -0.455109
 1.49E-05     0.509245     1.490218

LOAD  -2N+2- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.386471     1.829987     0.455109
-1.49E-05    -0.254361     1.580233
 0.14086     0.386471     1.829987     0.455109
-1.49E-05     0.063459     0.812620
 0.28172     0.386471     1.829987     0.455109
-1.49E-05    -0.127442     0.045008
 0.42258     0.386471     1.829987     0.455109
-1.49E-05    -0.318344    -0.722605
 0.56344     0.386471     1.829987     0.455109
-1.49E-05    -0.509245    -1.490218

COMB  SETTLE ------------------- MAX

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     2.565841     1.829987     0.455109
 1.51E-05     0.254361     2.236145
 0.14086     2.565841     1.829987     0.455109
 1.51E-05     0.063459     1.707371
 0.28172     2.565841     1.829987     0.455109
 1.51E-05     0.127442     1.178598
 0.42258     2.565841     1.829987     0.455109
 1.51E-05     0.318344     0.722605
 0.56344     2.565841     1.829987     0.455109
 1.51E-05     0.509245     1.490218

COMB  SETTLE ------------------- MIN

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -1.265695    -1.829987    -0.455109
-1.49E-05    -0.254361    -1.580233
 0.14086    -1.265695    -1.829987    -0.455109
-1.49E-05    -0.063459    -0.812620
 0.28172    -1.265695    -1.829987    -0.455109
-1.49E-05    -0.128487    -0.644829
 0.42258    -1.265695    -1.829987    -0.455109
-1.49E-05    -0.319208    -0.777097
 0.56344    -1.265695    -1.829987    -0.455109
-1.49E-05    -0.509929    -1.490218

ELEM      242 ================== LENGTH
=    2.976827

LOAD      -A1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43671     0.630312     0.075929    -0.010518
-1.83E-06    -0.011555     0.373854
 0.57753     0.630312     0.075929    -0.010518
-1.83E-06    -0.007146     0.342024
 0.71835     0.630312     0.075929    -0.010518
-1.83E-06    -0.002736     0.310194
 0.85918     0.630312     0.075929    -0.010518
-1.83E-06     0.001673     0.278364
 1.00000     0.630312     0.075929    -0.010518
-1.83E-06     0.006082     0.246534
Program     SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                491

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43671    -2.931258    -0.350892     0.051231
 8.65E-06     0.056225    -1.734960
 0.57753    -2.931258    -0.350892     0.051231
 8.65E-06     0.034748    -1.587864
 0.71835    -2.931258    -0.350892     0.051231
 8.65E-06     0.013272    -1.440768
 0.85918    -2.931258    -0.350892     0.051231
 8.65E-06    -0.008204    -1.293672
 1.00000    -2.931258    -0.350892     0.051231
 8.65E-06    -0.029681    -1.146576

LOAD      -P2 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43671    -0.998583    -0.342392    -0.146017
 7.80E-07    -0.157572    -1.072919
 0.57753    -0.998583    -0.342392    -0.146017
 7.80E-07    -0.096361    -0.929386
 0.71835    -0.998583    -0.342392    -0.146017
 7.80E-07    -0.035150    -0.785853
 0.85918    -0.998583    -0.342392    -0.146017
 7.80E-07     0.026062    -0.642320
 1.00000    -0.998583    -0.342392    -0.146017
 7.80E-07     0.087273    -0.498786

LOAD      -P3 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43671     5.891100     2.126505     0.428597
 1.27E-05     0.461312     6.764227
 0.57753     5.891100     2.126505     0.428597
 1.27E-05     0.281641     5.872781
 0.71835     5.891100     2.126505     0.428597
 1.27E-05     0.101971     4.981336
 0.85918     5.891100     2.126505     0.428597
 1.27E-05    -0.077700     4.089891
 1.00000     5.891100     2.126505     0.428597
 1.27E-05    -0.257371     3.198445

LOAD      -P4 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43671    -0.525532    -2.310330    -0.188189
-1.58E-05    -5.550696
 0.57753    -0.525532    -2.310330    -0.188189
-1.58E-05    -0.123896    -4.582190
 0.71835    -0.525532    -2.310330    -0.188189
-1.58E-05    -0.045006    -3.613683
 0.85918    -0.525532    -2.310330    -0.188189
-1.58E-05     0.033884    -2.645177
 1.00000    -0.525532    -2.310330    -0.188189
-1.58E-05     0.112774    -1.676671

LOAD      -P5 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43671    -2.066038     0.801180    -0.135104
-4.46E-06    -0.145623     1.220494
 0.57753    -2.066038     0.801180    -0.135104
-4.46E-06    -0.088987     0.884634
 0.71835    -2.066038     0.801180    -0.135104
-4.46E-06    -0.032350     0.548774
 0.85918    -2.066038     0.801180    -0.135104
-4.46E-06     0.024286     0.212914
 1.00000    -2.066038     0.801180    -0.135104
-4.46E-06     0.080923    -0.122946

LOAD  -2N+1- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43671    -0.893804    -2.576793    -0.344724
-1.69E-05    -0.371913    -6.249761
 0.57753    -0.893804    -2.576793    -0.344724
-1.69E-05    -0.227403    -5.169552
 0.71835    -0.893804    -2.576793    -0.344724
-1.69E-05    -0.082892    -4.089342
 0.85918    -0.893804    -2.576793    -0.344724
-1.69E-05     0.061618    -3.009133
 1.00000    -0.893804    -2.576793    -0.344724
-1.69E-05     0.206129    -1.928924
Program     SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                492

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43671     0.893804     2.576793     0.344724
 1.69E-05     0.371913     6.249761
 0.57753     0.893804     2.576793     0.344724
 1.69E-05     0.227403     5.169552
 0.71835     0.893804     2.576793     0.344724
 1.69E-05     0.082892     4.089342
 0.85918     0.893804     2.576793     0.344724
 1.69E-05    -0.061618     3.009133
 1.00000     0.893804     2.576793     0.344724
 1.69E-05    -0.206129     1.928924

COMB  SETTLE ------------------- MAX

REL DIST             P             V2             V3
       T             M2            M3
 0.43671     5.891100     2.576793     0.428597
 1.69E-05     0.461312     6.764227
 0.57753     5.891100     2.576793     0.428597
 1.69E-05     0.281641     5.872781
 0.71835     5.891100     2.576793     0.428597
 1.69E-05     0.101971     4.981336
 0.85918     5.891100     2.576793     0.428597
 1.69E-05     0.061618     4.089891
 1.00000     5.891100     2.576793     0.428597
 1.69E-05     0.206129     3.198445

COMB  SETTLE ------------------- MIN

REL DIST             P             V2             V3
       T             M2            M3
 0.43671    -2.931258    -2.576793    -0.344724
-1.69E-05    -0.371913    -6.249761
 0.57753    -2.931258    -2.576793    -0.344724
-1.69E-05    -0.227403    -5.169552
 0.71835    -2.931258    -2.576793    -0.344724
-1.69E-05    -0.082892    -4.089342
 0.85918    -2.931258    -2.576793    -0.344724
-1.69E-05    -0.077700    -3.009133
 1.00000    -2.931258    -2.576793    -0.344724
-1.69E-05    -0.257371    -1.928924

ELEM      243 ================== LENGTH
=    2.977883

LOAD      -A1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.627680     0.082378    -0.014591
 3.73E-06    -0.008949     0.246397
 0.14086     0.627680     0.082378    -0.014591
 3.73E-06    -0.002828     0.211842
 0.28172     0.627680     0.082378    -0.014591
 3.73E-06     0.003293     0.177286
 0.42259     0.627680     0.082378    -0.014591
 3.73E-06     0.009413     0.142731
 0.56345     0.627680     0.082378    -0.014591
 3.73E-06     0.015534     0.108176

LOAD      -P1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -2.918611    -0.380884     0.070082
-1.74E-05     0.042933    -1.145938
 0.14086    -2.918611    -0.380884     0.070082
-1.74E-05     0.013536    -0.986168
 0.28172    -2.918611    -0.380884     0.070082
-1.74E-05    -0.015862    -0.826398
 0.42259    -2.918611    -0.380884     0.070082
-1.74E-05    -0.045259    -0.666628
 0.56345    -2.918611    -0.380884     0.070082
-1.74E-05    -0.074656    -0.506859

LOAD      -P2 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -1.018473    -0.380981    -0.141957
 1.23E-05    -0.084710    -0.501357
 0.14086    -1.018473    -0.380981    -0.141957
 1.23E-05    -0.025163    -0.341546
 0.28172    -1.018473    -0.380981    -0.141957
 1.23E-05     0.034384    -0.181736
Program     SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                493

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST             P             V2             V3
       T             M2            M3
 0.42259    -1.018473    -0.380981    -0.141957
 1.23E-05     0.093930    -0.021926
 0.56345    -1.018473    -0.380981    -0.141957
 1.23E-05     0.153477     0.137885

LOAD      -P3 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     5.940657     2.253470     0.398649
 1.26E-06     0.237313     3.208175
 0.14086     5.940657     2.253470     0.398649
 1.26E-06     0.070091     2.252910
 0.28172     5.940657     2.253470     0.398649
 1.26E-06    -0.097130     1.317646
 0.42259     5.940657     2.253470     0.398649
 1.26E-06    -0.264352     0.372381
 0.56345     5.940657     2.253470     0.398649
 1.26E-06    -0.431574    -0.572884

LOAD      -P4 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.526085    -2.364548    -0.186599
 2.19E-07    -0.111859    -1.690378
 0.14086    -0.526085    -2.364548    -0.186599
 2.19E-07    -0.033587    -0.698520
 0.28172    -0.526085    -2.364548    -0.186599
 2.19E-07     0.044686     0.293339
 0.42259    -0.526085    -2.364548    -0.186599
 2.19E-07     0.122959     1.285197
 0.56345    -0.526085    -2.364548    -0.186599
 2.19E-07     0.201232     2.277056

LOAD      -P5 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -2.105168     0.790565    -0.125584
-6.20E-08    -0.074728    -0.116898
 0.14086    -2.105168     0.790565    -0.125584
-6.20E-08    -0.022050    -0.448517
 0.28172    -2.105168     0.790565    -0.125584
-6.20E-08     0.030629    -0.780137
 0.42259    -2.105168     0.790565    -0.125584
-6.20E-08     0.083308    -1.111756
 0.56345    -2.105168     0.790565    -0.125584
-6.20E-08     0.135987    -1.443375

LOAD  -2N+1- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.916879    -2.663151    -0.343147
 1.63E-05    -0.205518    -1.945338
 0.14086    -0.916879    -2.663151    -0.343147
 1.63E-05    -0.061578    -0.828224
 0.28172    -0.916879    -2.663151    -0.343147
 1.63E-05     0.082363     0.288889
 0.42259    -0.916879    -2.663151    -0.343147
 1.63E-05     0.226303     1.406003
 0.56345    -0.916879    -2.663151    -0.343147
 1.63E-05     0.370243     2.523117

LOAD  -2N+2- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.916879     2.663151     0.343147
 1.63E-05     0.205518     1.945338
 0.14086     0.916879     2.663151     0.343147
-1.63E-05     0.061578     0.828224
 0.28172     0.916879     2.663151     0.343147
-1.63E-05    -0.082363    -0.288889
 0.42259     0.916879     2.663151     0.343147
-1.63E-05    -0.226303    -1.406003
 0.56345     0.916879     2.663151     0.343147
-1.63E-05    -0.370243    -2.523117

COMB  SETTLE ------------------- MAX

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     5.940657     2.663151     0.398649
 1.63E-05     0.237313     3.208175
Program     SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                494

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST             P             V2             V3
       T             M2            M3
 0.14086     5.940657     2.663151     0.398649
 1.63E-05     0.070091     2.622910
 0.28172     5.940657     2.663151     0.398649
 1.63E-05     0.082363     1.317646
 0.42259     5.940657     2.663151     0.398649
 1.63E-05     0.226303     1.406003
 0.56345     5.940657     2.663151     0.398649
 1.63E-05     0.370243     2.523117

COMB  SETTLE ------------------- MIN

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -2.918611    -2.663151    -0.343147
-1.74E-05    -0.205518    -1.945338
 0.14086    -2.918611    -2.663151    -0.343147
-1.74E-05    -0.061578    -0.986168
 0.28172    -2.918611    -2.663151    -0.343147
-1.74E-05    -0.097130    -0.826398
 0.42259    -2.918611    -2.663151    -0.343147
-1.74E-05    -0.264352    -1.406003
 0.56345    -2.918611    -2.663151    -0.343147
-1.74E-05    -0.431574    -2.523117

ELEM      244 ================== LENGTH
=    2.977553

LOAD      -A1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43660     0.793008     0.129616    -0.012097
-4.39E-07    -0.013016     0.547162
 0.57745     0.793008     0.129616    -0.012097
-4.39E-07    -0.007942     0.492802
 0.71830     0.793008     0.129616    -0.012097
-4.39E-07    -0.002869     0.438442
 0.85915     0.793008     0.129616    -0.012097
-4.39E-07     0.002204     0.384083
 1.00000     0.793008     0.129616    -0.012097
-4.39E-07     0.007277     0.329723

LOAD      -P1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43660    -3.687666    -0.598119     0.058433
 2.18E-06     0.062870    -2.536954
 0.57745    -3.687666    -0.598119     0.058433
 2.18E-06     0.033051    -2.286110
 0.71830    -3.687666    -0.598119     0.058433
 2.18E-06     0.013858    -2.035266
 0.85915    -3.687666    -0.598119     0.058433
 2.18E-06    -0.010648    -1.784422
 1.00000    -3.687666    -0.598119     0.058433
 2.18E-06    -0.035154    -1.533578

LOAD      -P2 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43660    -1.285363    -0.436860    -0.122929
-2.70E-07    -0.033051    -1.374064
 0.57745    -1.285363    -0.436860    -0.122929
-2.70E-07    -0.081496    -1.190850
 0.71830    -1.285363    -0.436860    -0.122929
-2.70E-07    -0.029941    -1.007636
 0.85915    -1.285363    -0.436860    -0.122929
-2.70E-07     0.021614    -0.824422
 1.00000    -1.285363    -0.436860    -0.122929
-2.70E-07     0.073169    -0.641208

LOAD      -P3 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43660     7.507647     2.909835     0.336795
 1.53E-05     0.364854     8.890864
 0.57745     7.507647     2.909835     0.336795
 1.53E-05     0.223606     7.670513
 0.71830     7.507647     2.909835     0.336795
 1.53E-05     0.082358     6.450163
 0.85915     7.507647     2.909835     0.336795
 1.53E-05    -0.058890     5.229812
 1.00000     7.507647     2.909835     0.336795
 1.53E-05    -0.200138     4.009462
Program     SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                495

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43660    -0.686360    -2.843860    -0.094053
 3.00E-07    -0.101913    -6.540860
 0.57745    -0.686360    -2.843860    -0.094053
 3.00E-07    -0.062468    -5.348179
 0.71830    -0.686360    -2.843860    -0.094053
 3.00E-07    -0.023024    -4.155498
 0.85915    -0.686360    -2.843860    -0.094053
 3.00E-07     0.016421    -2.962816
 1.00000    -0.686360    -2.843860    -0.094053
 3.00E-07     0.055866    -1.770135

LOAD      -P5 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43660    -2.641265     0.839387    -0.166149
-1.70E-05    -0.170745     1.013852
 0.57745    -2.641265     0.839387    -0.166149
-1.70E-05    -0.110064     0.661823
 0.71830    -2.641265     0.839387    -0.166149
-1.70E-05    -0.040383     0.309794
 0.85915    -2.641265     0.839387    -0.166149
-1.70E-05     0.029298    -0.042235
 1.00000    -2.641265     0.839387    -0.166149
-1.70E-05     0.098979    -0.394264

LOAD  -2N+1- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43660    -1.178715    -3.151103    -0.229079
-4.09E-07    -0.247980    -7.367762
 0.57745    -1.178715    -3.151103    -0.229079
-4.09E-07    -0.151907    -6.046227
 0.71830    -1.178715    -3.151103    -0.229079
-4.09E-07    -0.055834    -4.724691
 0.85915    -1.178715    -3.151103    -0.229079
-4.09E-07     0.040239    -3.403155
 1.00000    -1.178715    -3.151103    -0.229079
-4.09E-07     0.136312    -2.081620

LOAD  -2N+2- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43660     1.178715     3.151103     0.229079
 4.09E-07     0.247980     7.367762
 0.57745     1.178715     3.151103     0.229079
 4.09E-07     0.151907     6.046227
 0.71830     1.178715     3.151103     0.229079
 4.09E-07     0.055834     4.724691
 0.85915     1.178715     3.151103     0.229079
 4.09E-07    -0.040239     3.403155
 1.00000     1.178715     3.151103     0.229079
 4.09E-07    -0.136312     2.081620

COMB  SETTLE ------------------- MAX

REL DIST             P             V2             V3
       T             M2            M3
 0.43660     7.507647     3.151103     0.336795
 1.53E-05     0.364854     8.890864
 0.57745     7.507647     3.151103     0.336795
 1.53E-05     0.223606     7.670513
 0.71830     7.507647     3.151103     0.336795
 1.53E-05     0.082358     6.450163
 0.85915     7.507647     3.151103     0.336795
 1.53E-05     0.040239     5.229812
 1.00000     7.507647     3.151103     0.336795
 1.53E-05     0.136312     4.009462

COMB  SETTLE ------------------- MIN

REL DIST             P             V2             V3
       T             M2            M3
 0.43660    -3.687666    -3.151103    -0.229079
-1.70E-05    -0.247980    -7.367762
 0.57745    -3.687666    -3.151103    -0.229079
-1.70E-05    -0.151907    -6.046227
 0.71830    -3.687666    -3.151103    -0.229079
-1.70E-05    -0.055834    -4.724691
 0.85915    -3.687666    -3.151103    -0.229079
-1.70E-05    -0.056890    -3.403155
 1.00000    -3.687666    -3.151103    -0.229079
-1.70E-05    -0.200138    -2.081620
Program     SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                496

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      245 ================== LENGTH
=    2.977613

LOAD      -A1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.796335     0.116602    -0.011921
 1.81E-06    -0.007075     0.329461
 0.14085     0.796335     0.116602    -0.011921
 1.81E-06    -0.002075     0.280558
 0.28170     0.796335     0.116602    -0.011921
 1.81E-06     0.002925     0.231655
 0.42256     0.796335     0.116602    -0.011921
 1.81E-06     0.007925     0.182751
 0.56341     0.796335     0.116602    -0.011921
 1.81E-06     0.012925     0.133848

LOAD      -P1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -3.703612    -0.537547     0.057551
-8.54E-06     0.034153    -1.532355
 0.14085    -3.703612    -0.537547     0.057551
-8.54E-06     0.010016    -1.306906
 0.28170    -3.703612    -0.537547     0.057551
-8.54E-06    -0.014121    -1.081457
 0.42256    -3.703612    -0.537547     0.057551
-8.54E-06    -0.038258    -0.856008
 0.56341    -3.703612    -0.537547     0.057551
-8.54E-06    -0.062395    -0.630558

LOAD      -P2 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -1.252690    -0.451587    -0.125485
 1.38E-05    -0.075285    -0.644094
 0.14085    -1.252690    -0.451587    -0.125485
 1.38E-05    -0.022656    -0.454697
 0.28170    -1.252690    -0.451587    -0.125485
 1.38E-05     0.029972    -0.265300
 0.42256    -1.252690    -0.451587    -0.125485
 1.38E-05     0.082601    -0.075903
 0.56341    -1.252690    -0.451587    -0.125485
 1.38E-05     0.135230     0.113495

LOAD      -P3 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     7.419930     2.816673     0.346093
-1.92E-05     0.208098     4.018433
 0.14085     7.419930     2.816673     0.346093
-1.92E-05     0.062946     2.937111
 0.28170     7.419930     2.816673     0.346093
-1.92E-05    -0.082207     1.655790
 0.42256     7.419930     2.816673     0.346093
-1.92E-05    -0.227359     0.474468
 0.56341     7.419930     2.816673     0.346093
-1.92E-05    -0.372512    -0.706854

LOAD      -P4 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.637523    -2.785703    -0.095196
 1.13E-05    -0.056790    -1.783053
 0.14085    -0.637523    -2.785703    -0.095196
 1.13E-05    -0.016864    -0.614720
 0.28170    -0.637523    -2.785703    -0.095196
 1.13E-05     0.023061     0.553613
 0.42256    -0.637523    -2.785703    -0.095196
 1.13E-05     0.062986     1.721945
 0.56341    -0.637523    -2.785703    -0.095196
 1.13E-05     0.102912     2.890278

LOAD      -P5 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -2.622440     0.841564    -0.171043
 8.17E-07    -0.103102    -0.388391
 0.14085    -2.622440     0.841564    -0.171043
 8.17E-07    -0.031367    -0.741346
 0.28170    -2.622440     0.841564    -0.171043
 8.17E-07     0.040369    -1.094300
Program     SAP2000     Nonlinear     Version     7.42
                File:하행S11-S1504.OUT

                                Page
<              UNEQUAL              SETTLEMENT              >
                                497

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S
```

```
REL DIST          P          V2          V3
T          M2          M3
0.42256   -2.622440    0.841564   -0.171043
 8.17E-07    0.112105   -1.447255
0.56341   -2.622440    0.841564   -0.171043
 8.17E-07    0.183841   -1.800209

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -1.093878   -3.120689   -0.232602
 2.69E-05   -0.139149   -2.097687
0.14085   -1.093878   -3.120689   -0.232602
 2.69E-05   -0.041595   -0.788860
0.28170   -1.093878   -3.120689   -0.232602
 2.69E-05    0.055959    0.519967
0.42256   -1.093878   -3.120689   -0.232602
 2.69E-05    0.153513    1.828794
0.56341   -1.093878   -3.120689   -0.232602
 2.69E-05    0.251067    3.137621

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000    1.093878    3.120689    0.232602
-2.69E-05    0.139149    2.097687
0.14085    1.093878    3.120689    0.232602
-2.69E-05    0.041595    0.788860
0.28170    1.093878    3.120689    0.232602
-2.69E-05   -0.055959   -0.519967
0.42256    1.093878    3.120689    0.232602
-2.69E-05   -0.153513   -1.828794
0.56341    1.093878    3.120689    0.232602
-2.69E-05   -0.251067   -3.137621

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    7.419930    3.120689    0.346093
2.69E-05    0.208098    4.018433
0.14085    7.419930    3.120689    0.346093
2.69E-05    0.062946    2.837111
0.28170    7.419930    3.120689    0.346093
2.69E-05    0.055959    1.655790
0.42256    7.419930    3.120689    0.346093
2.69E-05    0.153513    1.828794
0.56341    7.419930    3.120689    0.346093
2.69E-05    0.251067    3.137621

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -3.703612   -3.120689   -0.232602
-2.69E-05   -0.139149   -2.097687
0.14085   -3.703612   -3.120689   -0.232602
-2.69E-05   -0.041595   -1.306906
0.28170   -3.703612   -3.120689   -0.232602
-2.69E-05   -0.082207   -1.094300
0.42256   -3.703612   -3.120689   -0.232602
-2.69E-05   -0.227359   -1.828794
0.56341   -3.703612   -3.120689   -0.232602
-2.69E-05   -0.372512   -3.137621

ELEM      246 ================== LENGTH
=    2.977709

LOAD     -A1 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43658    0.548729    0.078253   -0.012788
 1.23E-06   -0.013863    0.355117
0.57743    0.548729    0.078253   -0.012788
 1.23E-06   -0.008499    0.322296
0.71829    0.548729    0.078253   -0.012788
 1.23E-06   -0.003135    0.289475
0.85914    0.548729    0.078253   -0.012788
 1.23E-06    0.002228    0.256653
1.00000    0.548729    0.078253   -0.012788
 1.23E-06    0.007592    0.223832
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1504.OUT

Page
<          UNEQUAL          SETTLEMENT          >
498

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43658   -2.551529   -0.361917    0.061302
-5.60E-06    0.066508   -1.648038
0.57743   -2.551529   -0.361917    0.061302
-5.60E-06    0.040797   -1.496240
0.71829   -2.551529   -0.361917    0.061302
-5.60E-06    0.015085   -1.344442
0.85914   -2.551529   -0.361917    0.061302
-5.60E-06   -0.010627   -1.192644
1.00000   -2.551529   -0.361917    0.061302
-5.60E-06   -0.036339   -1.040846

LOAD     -P2 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43658   -0.881522   -0.278756   -0.082155
-2.34E-06   -0.092803   -0.918146
0.57743   -0.881522   -0.278756   -0.082155
-2.34E-06   -0.058345   -0.801229
0.71829   -0.881522   -0.278756   -0.082155
-2.34E-06   -0.023887   -0.684311
0.85914   -0.881522   -0.278756   -0.082155
-2.34E-06    0.010571   -0.567393
1.00000   -0.881522   -0.278756   -0.082155
-2.34E-06    0.045029   -0.450475

LOAD     -P3 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43658    5.172578    2.055835    0.193806
1.99E-05    0.221651    6.395769
0.57743    5.172578    2.055835    0.193806
1.99E-05    0.140363    5.533496
0.71829    5.172578    2.055835    0.193806
1.99E-05    0.059076    4.671223
0.85914    5.172578    2.055835    0.193806
1.99E-05   -0.022212    3.808950
1.00000    5.172578    2.055835    0.193806
1.99E-05   -0.103499    2.946677

LOAD     -P4 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43658   -0.473823   -2.195185    0.036154
 2.13E-05    0.039892   -5.280884
0.57743   -0.473823   -2.195185    0.036154
 2.13E-05    0.024728   -4.360164
0.71829   -0.473823   -2.195185    0.036154
 2.13E-05    0.009564   -3.439444
0.85914   -0.473823   -2.195185    0.036154
 2.13E-05   -0.005600   -2.518724
1.00000   -0.473823   -2.195185    0.036154
 2.13E-05   -0.020764   -1.598003

LOAD     -P5 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43658   -1.814434    0.701769   -0.196319
-3.45E-05   -0.221385    1.496181
0.57743   -1.814434    0.701769   -0.196319
-3.45E-05   -0.139044    0.801840
0.71829   -1.814434    0.701769   -0.196319
-3.45E-05   -0.056702    0.507499
0.85914   -1.814434    0.701769   -0.196319
-3.45E-05    0.025639    0.213158
1.00000   -1.814434    0.701769   -0.196319
-3.45E-05    0.107981   -0.081184

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43658   -0.806616   -2.395687   -0.058790
 2.02E-05   -0.066774   -5.843913
0.57743   -0.806616   -2.395687   -0.058790
 2.02E-05   -0.042116   -4.839096
0.71829   -0.806616   -2.395687   -0.058790
 2.02E-05   -0.017458   -3.834280
0.85914   -0.806616   -2.395687   -0.058790
 2.02E-05    0.007200   -2.829464
1.00000   -0.806616   -2.395687   -0.058790
 2.02E-05    0.031858   -1.824647
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1504.OUT

Page
<          UNEQUAL          SETTLEMENT          >
499

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43658    0.806616    2.395687    0.058790
 2.02E-05    0.066774    5.843913
0.57743    0.806616    2.395687    0.058790
 2.02E-05    0.042116    4.839096
0.71829    0.806616    2.395687    0.058790
 2.02E-05    0.017458    3.834280
0.85914    0.806616    2.395687    0.058790
 2.02E-05   -0.007200    2.829464
1.00000    0.806616    2.395687    0.058790
 2.02E-05   -0.031858    1.824647

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
T          M2          M3
0.43658    5.172578    2.395687    0.193806
2.13E-05    0.221651    6.395769
0.57743    5.172578    2.395687    0.193806
2.13E-05    0.140363    5.533496
0.71829    5.172578    2.395687    0.193806
2.13E-05    0.059076    4.671223
0.85914    5.172578    2.395687    0.193806
2.13E-05    0.022639    3.808950
1.00000    5.172578    2.395687    0.193806
2.13E-05    0.107981    2.946677

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
T          M2          M3
0.43658   -2.551529   -2.395687   -0.196319
-3.45E-05   -0.221385   -5.843913
0.57743   -2.551529   -2.395687   -0.196319
-3.45E-05   -0.139044   -4.839096
0.71829   -2.551529   -2.395687   -0.196319
-3.45E-05   -0.056702   -3.834280
0.85914   -2.551529   -2.395687   -0.196319
-3.45E-05   -0.022212   -2.829464
1.00000   -2.551529   -2.395687   -0.196319
-3.45E-05   -0.103499   -1.824647

ELEM      247 ================== LENGTH
=    2.977769

LOAD     -A1 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000    0.548594    0.084315   -0.007473
-9.96E-07   -0.003707    0.223617
0.14086    0.548594    0.084315   -0.007473
-9.96E-07   -0.000573    0.188251
0.28172    0.548594    0.084315   -0.007473
-9.96E-07    0.002561    0.152886
0.42257    0.548594    0.084315   -0.007473
-9.96E-07    0.005696    0.117520
0.56343    0.548594    0.084315   -0.007473
-9.96E-07    0.008830    0.082155

LOAD     -P1 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -2.550927   -0.390125    0.036535
 4.51E-06    0.018232   -1.039845
0.14086   -2.550927   -0.390125    0.036535
 4.51E-06    0.002907   -0.876210
0.28172   -2.550927   -0.390125    0.036535
 4.51E-06   -0.012417   -0.712575
0.42257   -2.550927   -0.390125    0.036535
 4.51E-06   -0.027741   -0.548940
0.56343   -2.550927   -0.390125    0.036535
 4.51E-06   -0.043065   -0.385305

LOAD     -P2 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.875323   -0.289557   -0.092097
 1.63E-05   -0.052365   -0.454326
0.14086   -0.875323   -0.289557   -0.092097
 1.63E-05   -0.013736   -0.332874
0.28172   -0.875323   -0.289557   -0.092097
 1.63E-05    0.024894   -0.211421
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1504.OUT

Page
<          UNEQUAL          SETTLEMENT          >
500

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.42257   -0.875323   -0.289557   -0.092097
 1.63E-05    0.063523   -0.089969
0.56343   -0.875323   -0.289557   -0.092097
 1.63E-05    0.102153    0.031484

LOAD     -P3 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000    5.149532    2.117335    0.248585
-4.91E-05    0.143789    2.959234
0.14086    5.149532    2.117335    0.248585
-4.91E-05    0.039522    2.071134
0.28172    5.149532    2.117335    0.248585
-4.91E-05   -0.064745    1.182935
0.42257    5.149532    2.117335    0.248585
-4.91E-05   -0.169012    0.294936
0.56343    5.149532    2.117335    0.248585
-4.91E-05   -0.273279   -0.593164

LOAD     -P4 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.444647   -2.206101    0.033003
 2.48E-05    0.018579   -1.614615
0.14086   -0.444647   -2.206101    0.033003
 2.48E-05    0.004736   -0.689283
0.28172   -0.444647   -2.206101    0.033003
 2.48E-05   -0.009107    0.236049
0.42257   -0.444647   -2.206101    0.033003
 2.48E-05   -0.022950    1.161380
0.56343   -0.444647   -2.206101    0.033003
 2.48E-05   -0.036793    2.086712

LOAD     -P5 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -1.827229    0.684133   -0.218553
 4.48E-06   -0.124527   -0.074065
0.14086   -1.827229    0.684133   -0.218553
 4.48E-06   -0.032857   -0.361019
0.28172   -1.827229    0.684133   -0.218553
 4.48E-06    0.058814   -0.647974
0.42257   -1.827229    0.684133   -0.218553
 4.48E-06    0.150484   -0.934928
0.56343   -1.827229    0.684133   -0.218553
 4.48E-06    0.242154   -1.221882

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.771376   -2.411343   -0.066567
 4.02E-05   -0.037494   -1.845324
0.14086   -0.771376   -2.411343   -0.066567
 4.02E-05   -0.009573   -0.833906
0.28172   -0.771376   -2.411343   -0.066567
 4.02E-05    0.018348    0.177513
0.42257   -0.771376   -2.411343   -0.066567
 4.02E-05    0.046269    1.188932
0.56343   -0.771376   -2.411343   -0.066567
 4.02E-05    0.074190    2.200351

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000    0.771376    2.411343    0.066567
-4.02E-05    0.037494    1.845324
0.14086    0.771376    2.411343    0.066567
-4.02E-05    0.009573    0.833906
0.28172    0.771376    2.411343    0.066567
-4.02E-05   -0.018348   -0.177513
0.42257    0.771376    2.411343    0.066567
-4.02E-05   -0.046269   -1.188932
0.56343    0.771376    2.411343    0.066567
-4.02E-05   -0.074190   -2.200351

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
T          M2          M3
0.00000    5.149532    2.411343    0.248585
4.02E-05    0.143789    2.959234
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1504.OUT

Page
<          UNEQUAL          SETTLEMENT          >
501

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
T          M2          M3
0.14086    5.149532    2.411343    0.248585
4.02E-05    0.039522    2.071134
0.28172    5.149532    2.411343    0.248585
4.02E-05    0.058814    1.183935
0.42257    5.149532    2.411343    0.248585
4.02E-05    0.150484    1.188932
0.56343    5.149532    2.411343    0.248585
4.02E-05    0.242154    2.200351

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
T          M2          M3
0.00000   -2.550927   -2.411343   -0.218553
-4.91E-05   -0.124527   -1.845324
0.14086   -2.550927   -2.411343   -0.218553
-4.91E-05   -0.032857   -0.876210
0.28172   -2.550927   -2.411343   -0.218553
-4.91E-05   -0.064745   -0.712575
0.42257   -2.550927   -2.411343   -0.218553
-4.91E-05   -0.169012   -1.188932
0.56343   -2.550927   -2.411343   -0.218553
-4.91E-05   -0.273279   -2.200351

ELEM      248 ================== LENGTH
=    2.976946

LOAD     -A1 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43669    0.207785    0.030583   -0.010513
 1.74E-08   -0.011425    0.199353
0.57752    0.207785    0.030583   -0.010513
 1.74E-08   -0.007018    0.186532
0.71834    0.207785    0.030583   -0.010513
 1.74E-08   -0.002610    0.173710
0.85917    0.207785    0.030583   -0.010513
 1.74E-08    0.001797    0.160889
1.00000    0.207785    0.030583   -0.010513
 1.74E-08    0.006204    0.148067

LOAD     -P1 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43669   -0.965762   -0.141494    0.050548
 3.17E-08    0.054977   -0.925641
0.57752   -0.965762   -0.141494    0.050548
 3.17E-08    0.033785   -0.866322
0.71834   -0.965762   -0.141494    0.050548
 3.17E-08    0.012594   -0.807002
0.85917   -0.965762   -0.141494    0.050548
 3.17E-08   -0.008598   -0.747683
1.00000   -0.965762   -0.141494    0.050548
 3.17E-08   -0.029790   -0.688363

LOAD     -P2 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43669   -0.339456   -0.140716   -0.056412
 1.27E-07   -0.063371   -0.554619
0.57752   -0.339456   -0.140716   -0.056412
 1.27E-07   -0.039722   -0.407525
0.71834   -0.339456   -0.140716   -0.056412
 1.27E-07   -0.016072   -0.436632
0.85917   -0.339456   -0.140716   -0.056412
 1.27E-07    0.007578   -0.377638
1.00000   -0.339456   -0.140716   -0.056412
 1.27E-07    0.031228   -0.318645

LOAD     -P3 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43669    1.977639    1.111711    0.111467
9.91E-07    0.127035    3.977054
0.57752    1.977639    1.111711    0.111467
9.91E-07    0.080304    3.510984
0.71834    1.977639    1.111711    0.111467
9.91E-07    0.033573    3.044914
0.85917    1.977639    1.111711    0.111467
9.91E-07   -0.013158    2.578844
1.00000    1.977639    1.111711    0.111467
9.91E-07   -0.059889    2.112774
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1504.OUT

Page
<          UNEQUAL          SETTLEMENT          >
502

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43669   -0.188405   -1.375947    0.156858
 3.61E-05    0.175510   -3.629665
0.57752   -0.188405   -1.375947    0.156858
 3.61E-05    0.109749   -3.052818
0.71834   -0.188405   -1.375947    0.156858
 3.61E-05    0.043989   -2.475971
0.85917   -0.188405   -1.375947    0.156858
 3.61E-05   -0.021771   -1.899124
1.00000   -0.188405   -1.375947    0.156858
 3.61E-05   -0.087532   -1.322277

LOAD     -P5 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43669   -0.691802    0.515863   -0.251949
-3.72E-05   -0.282726    0.933518
0.57752   -0.691802    0.515863   -0.251949
-3.72E-05   -0.177100    0.717249
0.71834   -0.691802    0.515863   -0.251949
-3.72E-05   -0.071474    0.500980
0.85917   -0.691802    0.515863   -0.251949
-3.72E-05    0.034152    0.284712
1.00000   -0.691802    0.515863   -0.251949
-3.72E-05    0.139778    0.068443

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43669   -0.320075   -1.486080    0.089933
 3.62E-05    0.100714   -3.984930
0.57752   -0.320075   -1.486080    0.089933
 3.62E-05    0.063010   -3.361912
0.71834   -0.320075   -1.486080    0.089933
 3.62E-05    0.025307   -2.738893
0.85917   -0.320075   -1.486080    0.089933
 3.62E-05   -0.012396   -2.115874
1.00000   -0.320075   -1.486080    0.089933
 3.62E-05   -0.050100   -1.492855

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
T          M2          M3
0.43669    0.320075    1.486080   -0.089933
-3.62E-05   -0.100714    3.984930
0.57752    0.320075    1.486080   -0.089933
-3.62E-05   -0.063010    3.361912
0.71834    0.320075    1.486080   -0.089933
-3.62E-05   -0.025307    2.738893
0.85917    0.320075    1.486080   -0.089933
-3.62E-05    0.012396    2.115874
1.00000    0.320075    1.486080   -0.089933
-3.62E-05    0.050100    1.492855

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
T          M2          M3
0.43669    1.977639    1.486080    0.156858
3.62E-05    0.175510    3.984930
0.57752    1.977639    1.486080    0.156858
3.62E-05    0.109749    3.510984
0.71834    1.977639    1.486080    0.156858
3.62E-05    0.043989    3.044914
0.85917    1.977639    1.486080    0.156858
3.62E-05    0.034152    2.578844
1.00000    1.977639    1.486080    0.156858
3.62E-05    0.139778    2.112774

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
T          M2          M3
0.43669   -0.965762   -1.486080   -0.251949
-3.72E-05   -0.282726   -3.984930
0.57752   -0.965762   -1.486080   -0.251949
-3.72E-05   -0.177100   -3.361912
0.71834   -0.965762   -1.486080   -0.251949
-3.72E-05   -0.071474   -2.738893
0.85917   -0.965762   -1.486080   -0.251949
-3.72E-05   -0.021771   -2.115874
1.00000   -0.965762   -1.486080   -0.251949
-3.72E-05   -0.087532   -1.492855
Program    SAP2000    Nonlinear    Version    7.42
File:하행S11-S1504.OUT

Page
<          UNEQUAL          SETTLEMENT          >
503

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      249 ================== LENGTH
=    2.977006

LOAD     -A1 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000    0.208335    0.027576   -0.006864
 3.79E-08   -0.003553    0.147809
0.14083    0.208335    0.027576   -0.006864
 3.79E-08   -0.000675    0.138248
0.28166    0.208335    0.027576   -0.006864
 3.79E-08    0.002203    0.124687
0.42249    0.208335    0.027576   -0.006864
 3.79E-08    0.005081    0.113126
0.56332    0.208335    0.027576   -0.006864
 3.79E-08    0.007959    0.101565

LOAD     -P1 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.968354   -0.127488    0.033559
-2.94E-07    0.011437   -3.661161
0.14083   -0.968354   -0.127488    0.033559
-2.94E-07    0.003367   -0.633711
0.28166   -0.968354   -0.127488    0.033559
-2.94E-07   -0.010703   -0.580262
0.42249   -0.968354   -0.127488    0.033559
-2.94E-07   -0.024772   -0.526812
0.56332   -0.968354   -0.127488    0.033559
-2.94E-07   -0.038842   -0.473363

LOAD     -P2 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.331999   -0.160451   -0.062832
 1.11E-05   -0.035897   -0.322581
0.14083   -0.331999   -0.160451   -0.062832
 1.11E-05   -0.009554   -0.255312
0.28166   -0.331999   -0.160451   -0.062832
 1.11E-05    0.016788   -0.188042
0.42249   -0.331999   -0.160451   -0.062832
 1.11E-05    0.043131   -0.120773
0.56332   -0.331999   -0.160451   -0.062832
 1.11E-05    0.069473   -0.053503

LOAD     -P3 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000    1.953268    1.169797    0.147516
-3.34E-05    0.086107    2.125506
0.14083    1.953268    1.169797    0.147516
-3.34E-05    0.024261    1.635067
0.28166    1.953268    1.169797    0.147516
-3.34E-05   -0.037585    1.144628
0.42249    1.953268    1.169797    0.147516
-3.34E-05   -0.099432    0.654189
0.56332    1.953268    1.169797    0.147516
-3.34E-05   -0.161278    0.163750

LOAD     -P4 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.154348   -1.473685    0.158264
 2.27E-05    0.088927   -1.339555
0.14083   -0.154348   -1.473685    0.158264
 2.27E-05    0.022574   -0.721710
0.28166   -0.154348   -1.473685    0.158264
 2.27E-05   -0.043778   -0.103866
0.42249   -0.154348   -1.473685    0.158264
 2.27E-05   -0.110131    0.513979
0.56332   -0.154348   -1.473685    0.158264
 2.27E-05   -0.176483    1.131823

LOAD     -P5 ------------------

REL DIST          P          V2          V3
T          M2          M3
0.00000   -0.706901    0.564251   -0.269643
-1.72E-07   -0.153022    0.075981
0.14083   -0.706901    0.564251   -0.269643
```

-1.72E-07 -0.039974 -0.160582
0.28166 -0.706901 0.564251 -0.269643
-1.72E-07 0.073075 -0.397146
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
504

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42249 -0.706901 0.564251 -0.269643
-1.72E-07 0.186123 -0.633709
0.56332 -0.706901 0.564251 -0.269643
-1.72E-07 0.299171 -0.870272

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.278013 -1.606560 0.088568
3.39E-05 0.049478 -1.514326
0.14083 -0.278013 -1.606560 0.088568
3.39E-05 0.012346 -0.840774
0.28166 -0.278013 -1.606560 0.088568
3.39E-05 -0.024787 -0.167221
0.42249 -0.278013 -1.606560 0.088568
3.39E-05 -0.061919 0.506332
0.56332 -0.278013 -1.606560 0.088568
3.39E-05 -0.099051 1.179884

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.278013 1.606560 -0.088568
-3.39E-05 -0.049478 1.514326
0.14083 0.278013 1.606560 -0.088568
-3.39E-05 -0.012346 0.840774
0.28166 0.278013 1.606560 -0.088568
-3.39E-05 0.024787 0.167221
0.42249 0.278013 1.606560 -0.088568
-3.39E-05 0.061919 -0.506332
0.56332 0.278013 1.606560 -0.088568
-3.39E-05 0.099051 -1.179884

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 1.953268 1.606560 0.158264
3.39E-05 0.088927 2.125506
0.14083 1.953268 1.606560 0.158264
3.39E-05 0.024261 1.635067
0.28166 1.953268 1.606560 0.158264
3.39E-05 0.037075 1.144628
0.42249 1.953268 1.606560 0.158264
3.39E-05 0.186123 0.654189
0.56332 1.953268 1.606560 0.158264
3.39E-05 0.299171 1.179884

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.968354 -1.606560 -0.269643
-3.39E-05 -0.153022 -1.514326
0.14083 -0.968354 -1.606560 -0.269643
-3.39E-05 -0.099974 -0.840774
0.28166 -0.968354 -1.606560 -0.269643
-3.39E-05 -0.043778 -0.580262
0.42249 -0.968354 -1.606560 -0.269643
-3.39E-05 -0.110131 -0.633709
0.56332 -0.968354 -1.606560 -0.269643
-3.39E-05 -0.176483 -1.179884

ELEM 250 ========== LENGTH = 2.977165

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43666 0.026340 0.005058 -0.007816
2.16E-08 -0.008581 0.114110
0.57749 0.026340 0.005058 -0.007816
2.16E-08 -0.005304 0.111989
0.71833 0.026340 0.005058 -0.007816
2.16E-08 -0.002026 0.109868
0.85916 0.026340 0.005058 -0.007816
2.16E-08 0.001251 0.107748
1.00000 0.026340 0.005058 -0.007816
2.16E-08 0.004528 0.105627
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
505

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.122153 -0.023253 0.037844
1.12E-09 0.041571 -0.529971
0.57749 -0.122153 -0.023253 0.037844
1.12E-09 0.025704 -0.520222
0.71833 -0.122153 -0.023253 0.037844
1.12E-09 0.009836 -0.510472
0.85916 -0.122153 -0.023253 0.037844
1.12E-09 -0.006032 -0.500722
1.00000 -0.122153 -0.023253 0.037844
1.12E-09 -0.021899 -0.490973

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.046645 -0.069357 -0.032348
1.68E-07 -0.036130 -0.329411
0.57749 -0.046645 -0.069357 -0.032348
1.68E-07 -0.022567 -0.300330
0.71833 -0.046645 -0.069357 -0.032348
1.68E-07 -0.009003 -0.271249
0.85916 -0.046645 -0.069357 -0.032348
1.68E-07 0.004560 -0.242169
1.00000 -0.046645 -0.069357 -0.032348
1.68E-07 0.018123 -0.213088

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43666 0.266094 0.550426 0.036951
-2.60E-06 0.041882 2.405388
0.57749 0.266094 0.550426 0.036951
-2.60E-06 0.026389 2.174600
0.71833 0.266094 0.550426 0.036951
-2.60E-06 0.010895 1.943811
0.85916 0.266094 0.550426 0.036951
-2.60E-06 -0.004598 1.713022
1.00000 0.266094 0.550426 0.036951
-2.60E-06 -0.020092 1.482234

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.039286 -0.832886 0.269748
4.34E-05 0.302212 -2.336748
0.57749 -0.039286 -0.832886 0.269748
4.34E-05 0.189109 -1.987526
0.71833 -0.039286 -0.832886 0.269748
4.34E-05 0.076006 -1.638304
0.85916 -0.039286 -0.832886 0.269748
4.34E-05 -0.037097 -1.289082
1.00000 -0.039286 -0.832886 0.269748
4.34E-05 -0.150199 -0.939860

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.084351 0.370012 -0.304379
-4.10E-05 -0.340955 0.676631
0.57749 -0.084351 0.370012 -0.304379
-4.10E-05 -0.213331 0.521489
0.71833 -0.084351 0.370012 -0.304379
-4.10E-05 -0.085708 0.366346
0.85916 -0.084351 0.370012 -0.304379
-4.10E-05 0.041916 0.211203
1.00000 -0.084351 0.370012 -0.304379
-4.10E-05 0.169539 0.056060

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.059590 -0.897185 0.229584
4.36E-05 0.257501 -2.552048
0.57749 -0.059590 -0.897185 0.229584
4.36E-05 0.161239 -2.175867
0.71833 -0.059590 -0.897185 0.229584
4.36E-05 0.064977 -1.799685
0.85916 -0.059590 -0.897185 0.229584
4.36E-05 -0.031286 -1.423503
1.00000 -0.059590 -0.897185 0.229584
4.36E-05 -0.127548 -1.047321
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
506

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43666 0.059590 0.897185 -0.229584
-4.36E-05 -0.257501 2.552048
0.57749 0.059590 0.897185 -0.229584
-4.36E-05 -0.161239 2.175867
0.71833 0.059590 0.897185 -0.229584
-4.36E-05 -0.064977 1.799685
0.85916 0.059590 0.897185 -0.229584
-4.36E-05 0.031286 1.423503
1.00000 0.059590 0.897185 -0.229584
-4.36E-05 0.127548 1.047321

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43666 0.266094 0.897185 0.269748
4.36E-05 0.302212 2.552048
0.57749 0.266094 0.897185 0.269748
4.36E-05 0.189109 2.175867
0.71833 0.266094 0.897185 0.269748
4.36E-05 0.076006 1.943811
0.85916 0.266094 0.897185 0.269748
4.36E-05 0.041916 1.713022
1.00000 0.266094 0.897185 0.269748
4.36E-05 0.169539 1.482234

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43666 -0.122153 -0.897185 -0.304379
-4.36E-05 -0.340955 -2.552048
0.57749 -0.122153 -0.897185 -0.304379
-4.36E-05 -0.213331 -2.175867
0.71833 -0.122153 -0.897185 -0.304379
-4.36E-05 -0.085708 -1.799685
0.85916 -0.122153 -0.897185 -0.304379
-4.36E-05 -0.037097 -1.423503
1.00000 -0.122153 -0.897185 -0.304379
-4.36E-05 -0.150199 -1.047321

ELEM 251 ========== LENGTH = 2.977225

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.026638 0.005887 -0.006307
7.73E-09 -0.003417 0.105413
0.14084 0.026638 0.005887 -0.006307
7.73E-09 -0.000772 0.102944
0.28168 0.026638 0.005887 -0.006307
7.73E-09 0.001872 0.100476
0.42251 0.026638 0.005887 -0.006307
7.73E-09 0.004517 0.098008
0.56335 0.026638 0.005887 -0.006307
7.73E-09 0.007161 0.095540

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.123568 -0.027110 0.030821
-1.44E-07 0.016727 -0.483974
0.14084 -0.123568 -0.027110 0.030821
-1.44E-07 0.003803 -0.478607
0.28168 -0.123568 -0.027110 0.030821
-1.44E-07 -0.009120 -0.467239
0.42251 -0.123568 -0.027110 0.030821
-1.44E-07 -0.022044 -0.455872
0.56335 -0.123568 -0.027110 0.030821
-1.44E-07 -0.034967 -0.444504

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.041346 -0.063292 -0.034351
7.11E-06 -0.019520 -0.216476
0.14084 -0.041346 -0.063292 -0.034351
7.11E-06 -0.005117 -0.189937
0.28168 -0.041346 -0.063292 -0.034351
7.11E-06 0.009287 -0.163398
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
507

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42251 -0.041346 -0.063292 -0.034351
7.11E-06 0.023690 -0.136860
0.56335 -0.041346 -0.063292 -0.034351
7.11E-06 0.038094 -0.110321

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.248382 0.533066 0.049397
-2.30E-05 0.028994 1.493246
0.14084 0.248382 0.533066 0.049397
-2.30E-05 0.008282 1.269728
0.28168 0.248382 0.533066 0.049397
-2.30E-05 -0.012431 1.046210
0.42251 0.248382 0.533066 0.049397
-2.30E-05 -0.033143 0.822692
0.56335 0.248382 0.533066 0.049397
-2.30E-05 -0.053856 0.599174

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.015454 -0.805021 0.276795
1.36E-05 0.156000 -0.954741
0.14084 -0.015454 -0.805021 0.276795
1.36E-05 0.039938 -0.617190
0.28168 -0.015454 -0.805021 0.276795
1.36E-05 -0.076124 -0.279640
0.42251 -0.015454 -0.805021 0.276795
1.36E-05 -0.192186 0.057910
0.56335 -0.015454 -0.805021 0.276795
1.36E-05 -0.308248 0.395460

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.094653 0.356470 -0.316356
2.45E-06 -0.178784 0.062532
0.14084 -0.094653 0.356470 -0.316356
2.45E-06 -0.046134 -0.086938
0.28168 -0.094653 0.356470 -0.316356
2.45E-06 0.086516 -0.236408
0.42251 -0.094653 0.356470 -0.316356
2.45E-06 0.219166 -0.385878
0.56335 -0.094653 0.356470 -0.316356
2.45E-06 0.351816 -0.535349

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.030162 -0.862426 0.236138
2.07E-05 -0.133063 -1.065804
0.14084 -0.030162 -0.862426 0.236138
2.07E-05 0.034049 -0.704183
0.28168 -0.030162 -0.862426 0.236138
2.07E-05 -0.064965 -0.342563
0.42251 -0.030162 -0.862426 0.236138
2.07E-05 -0.163979 -0.019058
0.56335 -0.030162 -0.862426 0.236138
2.07E-05 -0.262993 0.380678

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.030162 0.862426 -0.236138
-2.07E-05 -0.133063 1.065804
0.14084 0.030162 0.862426 -0.236138
-2.07E-05 -0.034049 0.704183
0.28168 0.030162 0.862426 -0.236138
-2.07E-05 0.064965 0.342563
0.42251 0.030162 0.862426 -0.236138
-2.07E-05 0.163979 -0.019058
0.56335 0.030162 0.862426 -0.236138
-2.07E-05 0.262993 -0.380678

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.248382 0.862426 0.276795
2.07E-05 0.156000 1.493246
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
508

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 0.248382 0.862426 0.276795
2.07E-05 0.039938 1.269728
0.28168 0.248382 0.862426 0.276795
2.07E-05 0.086516 1.046210
0.42251 0.248382 0.862426 0.276795
2.07E-05 0.219166 0.822692
0.56335 0.248382 0.862426 0.276795
2.07E-05 0.351816 0.599174

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.123568 -0.862426 -0.316356
-2.30E-05 -0.178784 -1.065804
0.14084 -0.123568 -0.862426 -0.316356
-2.30E-05 -0.046134 -0.704183
0.28168 -0.123568 -0.862426 -0.316356
-2.30E-05 0.076124 -0.467239
0.42251 -0.123568 -0.862426 -0.316356
-2.30E-05 -0.192186 -0.455872
0.56335 -0.123568 -0.862426 -0.316356
-2.30E-05 -0.308248 -0.535349

ELEM 252 ========== LENGTH = 2.976550

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43675 -0.028385 -0.000637 -0.005919
-1.86E-07 -0.006517 0.077949
0.57756 -0.028385 -0.000637 -0.005919
-1.86E-07 -0.004036 0.078216
0.71837 -0.028385 -0.000637 -0.005919
-1.86E-07 -0.001556 0.078483
0.85919 -0.028385 -0.000637 -0.005919
-1.86E-07 0.000925 0.078750
1.00000 -0.028385 -0.000637 -0.005919
-1.86E-07 0.003406 0.079017

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43675 0.132147 0.003070 0.028883
9.58E-07 0.031821 -0.362081
0.57756 0.132147 0.003070 0.028883
9.58E-07 0.019715 -0.363368
0.71837 0.132147 0.003070 0.028883
9.58E-07 0.007609 -0.364655
0.85919 0.132147 0.003070 0.028883
9.58E-07 -0.004497 -0.365941
1.00000 0.132147 0.003070 0.028883
9.58E-07 -0.016603 -0.367228

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43675 0.034733 -0.023550 -0.010217
-3.12E-08 -0.011200 -0.188119
0.57756 0.034733 -0.023550 -0.010217
-3.12E-08 -0.006918 -0.178248
0.71837 0.034733 -0.023550 -0.010217
-3.12E-08 -0.002635 -0.168377
0.85919 0.034733 -0.023550 -0.010217
-3.12E-08 0.001647 -0.158506
1.00000 0.034733 -0.023550 -0.010217
-3.12E-08 0.005929 -0.148635

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43675 -0.228037 0.240097 -0.033855
-4.72E-06 -0.038117 1.469323
0.57756 -0.228037 0.240097 -0.033855
-4.72E-06 -0.023327 1.368690
0.71837 -0.228037 0.240097 -0.033855
-4.72E-06 -0.009738 1.268056
0.85919 -0.228037 0.240097 -0.033855
-4.72E-06 0.004452 1.167422
1.00000 -0.228037 0.240097 -0.033855
-4.72E-06 0.018642 1.066788
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
509

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43675 -0.007841 -0.434497 0.370704
4.57E-05 0.415233 -1.385036
0.57756 -0.007841 -0.434497 0.370704
4.57E-05 0.259858 -1.202922
0.71837 -0.007841 -0.434497 0.370704
4.57E-05 0.104482 -1.020808
0.85919 -0.007841 -0.434497 0.370704
4.57E-05 -0.050894 -0.838694
1.00000 -0.007841 -0.434497 0.370704
4.57E-05 -0.206270 -0.656580

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43675 0.097382 0.215517 -0.349596
-4.17E-05 -0.391220 0.387964
0.57756 0.097382 0.215517 -0.349596
-4.17E-05 -0.244691 0.297632
0.71837 0.097382 0.215517 -0.349596
-4.17E-05 -0.098162 0.207301
0.85919 0.097382 0.215517 -0.349596
-4.17E-05 0.048367 0.116969
1.00000 0.097382 0.215517 -0.349596
-4.17E-05 0.194896 0.026638

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43675 -0.001493 -0.458684 0.354568
4.54E-05 0.397517 -1.495206
0.57756 -0.001493 -0.458684 0.354568
4.54E-05 0.248904 -1.302954
0.71837 -0.001493 -0.458684 0.354568
4.54E-05 0.100291 -1.110702
0.85919 -0.001493 -0.458684 0.354568
4.54E-05 -0.048322 -0.918450
1.00000 -0.001493 -0.458684 0.354568
4.54E-05 -0.196935 -0.726198

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43675 0.001493 0.458684 -0.354568
-4.54E-05 -0.397517 1.495206
0.57756 0.001493 0.458684 -0.354568
-4.54E-05 -0.248904 1.302954
0.71837 0.001493 0.458684 -0.354568
-4.54E-05 -0.100291 1.110702
0.85919 0.001493 0.458684 -0.354568
-4.54E-05 0.048322 0.918450
1.00000 0.001493 0.458684 -0.354568
-4.54E-05 0.196935 0.726198

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43675 0.132147 0.458684 0.370704
4.57E-05 0.415233 1.495206
0.57756 0.132147 0.458684 0.370704
4.57E-05 0.259858 1.368690
0.71837 0.132147 0.458684 0.370704
4.57E-05 0.104482 1.242175
0.85919 0.132147 0.458684 0.370704
4.57E-05 0.048367 1.167422
1.00000 0.132147 0.458684 0.370704
4.57E-05 0.196935 1.066788

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43675 -0.228037 -0.458684 -0.354568
-4.54E-05 -0.397517 -1.495206
0.57756 -0.228037 -0.458684 -0.354568
-4.54E-05 -0.248904 -1.302954
0.71837 -0.228037 -0.458684 -0.354568
-4.54E-05 -0.100291 -1.110702
0.85919 -0.228037 -0.458684 -0.354568
-4.54E-05 -0.050894 -0.918450
1.00000 -0.228037 -0.458684 -0.354568
-4.54E-05 -0.206270 -0.726198
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
510

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 253 ========== LENGTH = 2.977603

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.028046 -0.001452 -0.005284
1.11E-07 -0.002902 0.078799
0.14085 -0.028046 -0.001452 -0.005284
1.11E-07 -0.000686 0.079408
0.28170 -0.028046 -0.001452 -0.005284
1.11E-07 0.001530 0.080017
0.42256 -0.028046 -0.001452 -0.005284
1.11E-07 0.003746 0.080626
0.56341 -0.028046 -0.001452 -0.005284
1.11E-07 0.005963 0.081235

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.130540 0.006869 0.025933
-6.12E-07 0.014259 -0.366212
0.14085 0.130540 0.006869 0.025933
-6.12E-07 0.003383 -0.369008
0.28170 0.130540 0.006869 0.025933
-6.12E-07 -0.007493 -0.371974
0.42256 0.130540 0.006869 0.025933
-6.12E-07 -0.018370 -0.374855
0.56341 0.130540 0.006869 0.025933
-6.12E-07 -0.029246 -0.377736

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.040381 -0.034145 -0.009602
3.05E-06 -0.005382 0.152052
0.14085 0.040381 -0.034145 -0.009602
3.05E-06 -0.001355 -0.137731
0.28170 0.040381 -0.034145 -0.009602
3.05E-06 0.002672 -0.123411
0.42256 0.040381 -0.034145 -0.009602
3.05E-06 0.006699 -0.109091
0.56341 0.040381 -0.034145 -0.009602
3.05E-06 0.010727 -0.094771

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.246704 0.274316 -0.033698
-9.90E-06 -0.018723 1.077899
0.14085 -0.246704 0.274316 -0.033698
-9.90E-06 -0.004590 0.962850
0.28170 -0.246704 0.274316 -0.033698
-9.90E-06 0.009543 0.847802
0.42256 -0.246704 0.274316 -0.033698
-9.90E-06 0.023676 0.732753
0.56341 -0.246704 0.274316 -0.033698
-9.90E-06 0.037809 0.617705

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.017370 -0.482518 0.382039
1.02E-06 0.215673 -0.671622
0.14085 0.017370 -0.482518 0.382039
1.02E-06 0.055446 -0.469253
0.28170 0.017370 -0.482518 0.382039
1.02E-06 -0.104782 -0.266884

0.42256 0.017370 -0.482518 0.382039
1.02E-06 -0.265009 -0.064516
0.56341 0.017370 -0.482518 0.382039
1.02E-06 -0.425236 0.137853

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.086459 0.236929 -0.359388
6.32E-06 -0.202925 0.033187
0.14085 0.086459 0.236929 -0.359388
6.32E-06 -0.052198 -0.066182
0.28170 0.086459 0.236929 -0.359388
6.32E-06 0.098529 -0.165550
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
511

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42256 0.086459 0.236929 -0.359388
6.32E-06 0.249257 -0.264918
0.56341 0.086459 0.236929 -0.359388
6.32E-06 0.399984 -0.364287

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.029704 -0.518115 0.367152
4.19E-06 0.207389 -0.744874
0.14085 0.029704 -0.518115 0.367152
4.19E-06 0.053405 -0.527576
0.28170 0.029704 -0.518115 0.367152
4.19E-06 -0.100579 -0.310278
0.42256 0.029704 -0.518115 0.367152
4.19E-06 -0.254563 -0.092980
0.56341 0.029704 -0.518115 0.367152
4.19E-06 -0.408547 0.124317

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.029704 0.518115 -0.367152
-4.19E-06 -0.207389 0.744874
0.14085 -0.029704 0.518115 -0.367152
-4.19E-06 -0.053405 0.527576
0.28170 -0.029704 0.518115 -0.367152
-4.19E-06 0.100579 0.310278
0.42256 -0.029704 0.518115 -0.367152
-4.19E-06 0.254563 0.092980
0.56341 -0.029704 0.518115 -0.367152
-4.19E-06 0.408547 -0.124317

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.130540 0.518115 0.382039
6.32E-06 0.215673 1.077899
0.14085 0.130540 0.518115 0.382039
6.32E-06 0.055446 0.962850
0.28170 0.130540 0.518115 0.382039
6.32E-06 0.100579 0.847802
0.42256 0.130540 0.518115 0.382039
6.32E-06 0.254563 0.732753
0.56341 0.130540 0.518115 0.382039
6.32E-06 0.408547 0.617705

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.246704 -0.518115 -0.367152
-9.90E-06 -0.207389 -0.744874
0.14085 -0.246704 -0.518115 -0.367152
-9.90E-06 -0.053405 -0.527576
0.28170 -0.246704 -0.518115 -0.367152
-9.90E-06 -0.104782 -0.371974
0.42256 -0.246704 -0.518115 -0.367152
-9.90E-06 -0.265009 -0.374855
0.56341 -0.246704 -0.518115 -0.367152
-9.90E-06 -0.425236 -0.377736

ELEM 254 ========== LENGTH = 2.977998

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43653 -0.034475 -0.001863 -0.004743
-3.14E-07 -0.005183 0.063193
0.57740 -0.034475 -0.001863 -0.004743
-3.14E-07 -0.003193 0.063974
0.71827 -0.034475 -0.001863 -0.004743
-3.14E-07 -0.001204 0.064755
0.85913 -0.034475 -0.001863 -0.004743
-3.14E-07 0.000786 0.065537
1.00000 -0.034475 -0.001863 -0.004743
-3.14E-07 0.002776 0.066318
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
512

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43653 0.160329 0.008718 0.023289
1.55E-06 0.025479 -0.293556
0.57740 0.160329 0.008718 0.023289
1.55E-06 0.015710 -0.297214
0.71827 0.160329 0.008718 0.023289
1.55E-06 0.005940 -0.300871
0.85913 0.160329 0.008718 0.023289
1.55E-06 -0.003830 -0.304528
1.00000 0.160329 0.008718 0.023289
1.55E-06 -0.013599 -0.308185

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43653 0.024640 -0.011702 0.009603
-2.77E-07 0.011065 -0.111536
0.57740 0.024640 -0.011702 0.009603
-2.77E-07 0.007037 -0.106627
0.71827 0.024640 -0.011702 0.009603
-2.77E-07 0.003008 -0.101718
0.85913 0.024640 -0.011702 0.009603
-2.77E-07 -0.001020 -0.096810
1.00000 0.024640 -0.011702 0.009603
-2.77E-07 -0.005048 -0.091901

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43653 -0.222108 0.119764 -0.099021
-5.50E-06 -0.113077 0.951960
0.57740 -0.222108 0.119764 -0.099021
-5.50E-06 -0.069768 0.901720
0.71827 -0.222108 0.119764 -0.099021
-5.50E-06 -0.028229 0.851479
0.85913 -0.222108 0.119764 -0.099021
-5.50E-06 0.013310 0.801238
1.00000 -0.222108 0.119764 -0.099021
-5.50E-06 0.054849 0.750997

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43653 -0.057545 -0.249492 0.455990
4.63E-05 0.511568 -0.781812
0.57740 -0.057545 -0.249492 0.455990
4.63E-05 0.320280 -0.677150
0.71827 -0.057545 -0.249492 0.455990
4.63E-05 0.128992 -0.572488
0.85913 -0.057545 -0.249492 0.455990
4.63E-05 -0.062295 -0.467827
1.00000 -0.057545 -0.249492 0.455990
4.63E-05 -0.253583 -0.363165

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43653 0.129159 0.134574 -0.385117
-4.18E-05 -0.431621 0.171751
0.57740 0.129159 0.134574 -0.385117
-4.18E-05 -0.270065 0.115298
0.71827 0.129159 0.134574 -0.385117
-4.18E-05 -0.108508 0.058844
0.85913 0.129159 0.134574 -0.385117
-4.18E-05 0.053048 0.002390
1.00000 0.129159 0.134574 -0.385117
-4.18E-05 0.214605 -0.054064

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43653 -0.067380 -0.263056 0.460850
4.57E-05 0.517450 -0.830155
0.57740 -0.067380 -0.263056 0.460850
4.57E-05 0.324123 -0.719803
0.71827 -0.067380 -0.263056 0.460850
4.57E-05 0.130797 -0.609452
0.85913 -0.067380 -0.263056 0.460850
4.57E-05 -0.062529 -0.499100
1.00000 -0.067380 -0.263056 0.460850
4.57E-05 -0.255855 -0.388748
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
513

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43653 0.067380 0.263056 -0.460850
-4.57E-05 -0.517450 0.830155
0.57740 0.067380 0.263056 -0.460850
-4.57E-05 -0.324123 0.719803
0.71827 0.067380 0.263056 -0.460850
-4.57E-05 -0.130797 0.609452
0.85913 0.067380 0.263056 -0.460850
-4.57E-05 0.062529 0.499100
1.00000 0.067380 0.263056 -0.460850
-4.57E-05 0.255855 0.388748

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43653 0.160329 0.263056 0.460850
4.63E-05 0.517450 0.951960
0.57740 0.160329 0.263056 0.460850
4.63E-05 0.324123 0.901720
0.71827 0.160329 0.263056 0.460850
4.63E-05 0.130797 0.851479
0.85913 0.160329 0.263056 0.460850
4.63E-05 0.062529 0.801238
1.00000 0.160329 0.263056 0.460850
4.63E-05 0.255855 0.750997

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43653 -0.222108 -0.263056 -0.460850
-4.57E-05 -0.517450 -0.830155
0.57740 -0.222108 -0.263056 -0.460850
-4.57E-05 -0.324123 -0.719803
0.71827 -0.222108 -0.263056 -0.460850
-4.57E-05 -0.130797 -0.609452
0.85913 -0.222108 -0.263056 -0.460850
-4.57E-05 -0.062529 -0.499100
1.00000 -0.222108 -0.263056 -0.460850
-4.57E-05 -0.255855 -0.388748

ELEM 255 ========== LENGTH = 2.977065

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.034248 -0.001840 -0.004028
9.22E-08 -0.002170 0.066150
0.14083 -0.034248 -0.001840 -0.004028
9.22E-08 -0.000481 0.066922
0.28166 -0.034248 -0.001840 -0.004028
9.22E-08 0.001208 0.067693
0.42250 -0.034248 -0.001840 -0.004028
9.22E-08 0.002897 0.068465
0.56333 -0.034248 -0.001840 -0.004028
9.22E-08 0.004586 0.069236

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.159251 0.008613 0.019984
-5.18E-07 0.010797 -0.307403
0.14083 0.159251 0.008613 0.019984
-5.18E-07 0.002419 -0.311015
0.28166 0.159251 0.008613 0.019984
-5.18E-07 -0.005960 -0.314626
0.42250 0.159251 0.008613 0.019984
-5.18E-07 -0.014338 -0.318237
0.56333 0.159251 0.008613 0.019984
-5.18E-07 -0.022716 -0.321849

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.028877 -0.011560 0.011494
-5.70E-07 0.006571 -0.094545
0.14083 0.028877 -0.011560 0.011494
-5.70E-07 0.001752 -0.089698
0.28166 0.028877 -0.011560 0.011494
-5.70E-07 -0.003067 -0.084852
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
514

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42250 0.028877 -0.011560 0.011494
-5.70E-07 -0.007886 -0.080005
0.56333 0.028877 -0.011560 0.011494
-5.70E-07 -0.012705 -0.075158

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.236216 0.119549 -0.103068
2.15E-06 -0.057941 0.759606
0.14083 -0.236216 0.119549 -0.103068
2.15E-06 -0.014728 0.709483
0.28166 -0.236216 0.119549 -0.103068
2.15E-06 0.028485 0.659360
0.42250 -0.236216 0.119549 -0.103068
2.15E-06 0.071698 0.609237
0.56333 -0.236216 0.119549 -0.103068
2.15E-06 0.114911 0.559114

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.038891 -0.249213 0.474255
-1.23E-05 0.268051 -0.374811
0.14083 -0.038891 -0.249213 0.474255
-1.23E-05 0.069212 -0.270325
0.28166 -0.038891 -0.249213 0.474255
-1.23E-05 -0.129627 -0.165838
0.42250 -0.038891 -0.249213 0.474255
-1.23E-05 -0.328466 -0.061352
0.56333 -0.038891 -0.249213 0.474255
-1.23E-05 -0.527304 0.043135

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.121227 0.134451 -0.398636
1.11E-05 -0.225308 -0.048996
0.14083 0.121227 0.134451 -0.398636
1.11E-05 -0.058174 -0.105367
0.28166 0.121227 0.134451 -0.398636
1.11E-05 0.108961 -0.161737
0.42250 0.121227 0.134451 -0.398636
1.11E-05 0.276095 -0.218108
0.56333 0.121227 0.134451 -0.398636
1.11E-05 0.443229 -0.274478

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.044262 -0.262613 0.481720
-1.27E-05 0.272452 -0.403206
0.14083 -0.044262 -0.262613 0.481720
-1.27E-05 0.070483 -0.293101
0.28166 -0.044262 -0.262613 0.481720
-1.27E-05 -0.131486 -0.182997
0.42250 -0.044262 -0.262613 0.481720
-1.27E-05 -0.333455 -0.072892
0.56333 -0.044262 -0.262613 0.481720
-1.27E-05 -0.535424 0.037213

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.044262 0.262613 -0.481720
1.27E-05 -0.272452 0.403206
0.14083 0.044262 0.262613 -0.481720
1.27E-05 -0.070483 0.293101
0.28166 0.044262 0.262613 -0.481720
1.27E-05 0.131486 0.182997
0.42250 0.044262 0.262613 -0.481720
1.27E-05 0.333455 0.072892
0.56333 0.044262 0.262613 -0.481720
1.27E-05 0.535424 -0.037213

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.159251 0.262613 0.481720
1.27E-05 0.272452 0.759606
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
515

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14083 0.159251 0.262613 0.481720
1.27E-05 0.070483 0.709483
0.28166 0.159251 0.262613 0.481720
1.27E-05 0.131486 0.659360
0.42250 0.159251 0.262613 0.481720
1.27E-05 0.333455 0.609237
0.56333 0.159251 0.262613 0.481720
1.27E-05 0.535424 0.559114

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.236216 -0.262613 -0.481720
-1.27E-05 -0.272452 -0.403206
0.14083 -0.236216 -0.262613 -0.481720
-1.27E-05 -0.070483 -0.311015
0.28166 -0.236216 -0.262613 -0.481720
-1.27E-05 -0.131486 -0.314626
0.42250 -0.236216 -0.262613 -0.481720
-1.27E-05 -0.333455 -0.318237
0.56333 -0.236216 -0.262613 -0.481720
-1.27E-05 -0.535424 -0.321849

ELEM 256 ========== LENGTH = 2.977536

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43660 -0.038246 -0.002431 -0.004057
-4.66E-07 -0.004354 0.060266
0.57745 -0.038246 -0.002431 -0.004057
-4.66E-07 -0.002652 0.061286
0.71830 -0.038246 -0.002431 -0.004057
-4.66E-07 -0.000951 0.062305
0.85915 -0.038246 -0.002431 -0.004057
-4.66E-07 0.000751 0.063325
1.00000 -0.038246 -0.002431 -0.004057
-4.66E-07 0.002453 0.064344

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43660 0.177784 0.011333 0.019999
2.25E-06 0.021511 -0.279993
0.57745 0.177784 0.011333 0.019999
2.25E-06 0.013123 -0.284746
0.71830 0.177784 0.011333 0.019999
2.25E-06 0.004736 -0.289499
0.85915 0.177784 0.011333 0.019999
2.25E-06 -0.003652 -0.294252
1.00000 0.177784 0.011333 0.019999
2.25E-06 -0.012039 -0.299004

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43660 -0.011291 -0.002486 0.026007
-6.40E-07 0.029455 -0.055026
0.57745 -0.011291 -0.002486 0.026007
-6.40E-07 0.018548 -0.053984
0.71830 -0.011291 -0.002486 0.026007
-6.40E-07 0.007641 -0.052941
0.85915 -0.011291 -0.002486 0.026007
-6.40E-07 -0.003266 -0.051899
1.00000 -0.011291 -0.002486 0.026007
-6.40E-07 -0.014173 -0.050856

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43660 -0.123561 0.044663 -0.154163
-5.47E-06 -0.172851 0.626116
0.57745 -0.123561 0.044663 -0.154163
-5.47E-06 -0.108197 0.607385
0.71830 -0.123561 0.044663 -0.154163
-5.47E-06 -0.043544 0.588653
0.85915 -0.123561 0.044663 -0.154163
-5.47E-06 0.021109 0.569922
1.00000 -0.123561 0.044663 -0.154163
-5.47E-06 0.085763 0.551191
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
516

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43660 -0.172443 -0.136318 0.525830
4.55E-05 0.589996 -0.338851
0.57745 -0.172443 -0.136318 0.525830
4.55E-05 0.369471 -0.281681
0.71830 -0.172443 -0.136318 0.525830
4.55E-05 0.148947 -0.224512
0.85915 -0.172443 -0.136318 0.525830
4.55E-05 -0.071578 -0.167342
1.00000 -0.172443 -0.136318 0.525830
4.55E-05 -0.292103 -0.110173

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43660 0.167757 0.085239 -0.413617
-4.11E-05 -0.463757 -0.012511
0.57745 0.167757 0.085239 -0.413617
-4.11E-05 -0.290293 -0.048259
0.71830 0.167757 0.085239 -0.413617
-4.11E-05 -0.116829 -0.083907
0.85915 0.167757 0.085239 -0.413617
-4.11E-05 0.056636 -0.119755
1.00000 0.167757 0.085239 -0.413617
-4.11E-05 0.230100 -0.155503

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43660 -0.221980 -0.141235 0.547780
4.44E-05 0.615097 -0.333611
0.57745 -0.221980 -0.141235 0.547780
4.44E-05 0.385367 -0.274379
0.71830 -0.221980 -0.141235 0.547780
4.44E-05 0.155637 -0.215148
0.85915 -0.221980 -0.141235 0.547780
4.44E-05 -0.074093 -0.155916
1.00000 -0.221980 -0.141235 0.547780
4.44E-05 -0.303823 -0.096684

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43660 0.221980 0.141235 -0.547780
-4.44E-05 -0.615097 0.333611
0.57745 0.221980 0.141235 -0.547780
-4.44E-05 -0.385367 0.274379
0.71830 0.221980 0.141235 -0.547780
-4.44E-05 -0.155637 0.215148
0.85915 0.221980 0.141235 -0.547780
-4.44E-05 0.074093 0.155916
1.00000 0.221980 0.141235 -0.547780
-4.44E-05 0.303823 0.096684

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43660 0.221980 0.141235 0.547780
4.55E-05 0.615097 0.626116
0.57745 0.221980 0.141235 0.547780
4.55E-05 0.385367 0.607385
0.71830 0.221980 0.141235 0.547780
4.55E-05 0.155637 0.588653
0.85915 0.221980 0.141235 0.547780
4.55E-05 0.074093 0.569922
1.00000 0.221980 0.141235 0.547780
4.55E-05 0.303823 0.551191

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43660 -0.221980 -0.141235 -0.547780
-4.44E-05 -0.615097 -0.338851
0.57745 -0.221980 -0.141235 -0.547780
-4.44E-05 -0.385367 -0.284746
0.71830 -0.221980 -0.141235 -0.547780
-4.44E-05 -0.155637 -0.280499
0.85915 -0.221980 -0.141235 -0.547780
-4.44E-05 -0.074093 -0.294252
1.00000 -0.221980 -0.141235 -0.547780
-4.44E-05 -0.303823 -0.299004
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
517

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 257 ========== LENGTH = 2.976603

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.038074 -0.002451 -0.002821
1.06E-07 -0.001422 0.064209
0.14082 -0.038074 -0.002451 -0.002821
1.06E-07 -0.000240 0.065236
0.28163 -0.038074 -0.002451 -0.002821
1.06E-07 0.000942 0.066264
0.42245 -0.038074 -0.002451 -0.002821
1.06E-07 0.002125 0.067291
0.56326 -0.038074 -0.002451 -0.002821
1.06E-07 0.003307 0.068319

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.176965 0.011429 0.014273
-5.74E-07 0.007266 -0.298372
0.14082 0.176965 0.011429 0.014273
-5.74E-07 0.001284 -0.303162
0.28163 0.176965 0.011429 0.014273
-5.74E-07 -0.004699 -0.307952
0.42245 0.176965 0.011429 0.014273
-5.74E-07 -0.010681 -0.312743
0.56326 0.176965 0.011429 0.014273
-5.74E-07 -0.016663 -0.317533

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.007889 -0.002640 0.028690
-3.60E-06 0.016322 -0.053003
0.14082 -0.007889 -0.002640 0.028690
-3.60E-06 0.004297 -0.051896
0.28163 -0.007889 -0.002640 0.028690
-3.60E-06 -0.007729 -0.050789
0.42245 -0.007889 -0.002640 0.028690
-3.60E-06 -0.019754 -0.049683
0.56326 -0.007889 -0.002640 0.028690
-3.60E-06 -0.031780 -0.048576

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.134897 0.045214 -0.158748
1.27E-05 -0.089230 0.658313
0.14082 -0.134897 0.045214 -0.158748
1.27E-05 -0.022690 0.539232
0.28163 -0.134897 0.045214 -0.158748
1.27E-05 0.043849 0.520280
0.42245 -0.134897 0.045214 -0.158748
1.27E-05 0.110388 0.501328
0.56326 -0.134897 0.045214 -0.158748

```
 1.27E-05    0.176927    0.482377

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.157680   -0.137284    0.549203
-2.37E-05    0.310663   -0.119619
0.14082   -0.157680   -0.137284    0.549203
-2.37E-05    0.080464   -0.062076
0.28163   -0.157680   -0.137284    0.549203
-2.37E-05   -0.149735   -0.004534
0.42245   -0.157680   -0.137284    0.549203
-2.37E-05   -0.379933    0.053009
0.56326   -0.157680   -0.137284    0.549203
-2.37E-05   -0.610132    0.110552

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.161576    0.085733   -0.430597
 1.51E-05   -0.243599   -0.151398
0.14082    0.161576    0.085733   -0.430597
 1.51E-05   -0.063114   -0.187333
0.28163    0.161576    0.085733   -0.430597
 1.51E-05    0.117371   -0.223268
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         518

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42245    0.161576    0.085733   -0.430597
 1.51E-05    0.297856   -0.259203
0.56326    0.161576    0.085733   -0.430597
 1.51E-05    0.478341   -0.295138

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.203643   -0.142376    0.575072
-2.72E-05    0.325563   -0.108413
0.14082   -0.203643   -0.142376    0.575072
-2.72E-05    0.084521   -0.048736
0.28163   -0.203643   -0.142376    0.575072
-2.72E-05   -0.156521    0.010941
0.42245   -0.203643   -0.142376    0.575072
-2.72E-05   -0.397563    0.070618
0.56326   -0.203643   -0.142376    0.575072
-2.72E-05   -0.638605    0.130295

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.203643    0.142376   -0.575072
 2.72E-05   -0.325563    0.108413
0.14082    0.203643    0.142376   -0.575072
 2.72E-05   -0.084521    0.048736
0.28163    0.203643    0.142376   -0.575072
 2.72E-05    0.156521   -0.010941
0.42245    0.203643    0.142376   -0.575072
 2.72E-05    0.397563   -0.070618
0.56326    0.203643    0.142376   -0.575072
 2.72E-05    0.638605   -0.130295

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.203643    0.142376    0.575072
 2.72E-05    0.325563    0.558183
0.14082    0.203643    0.142376    0.575072
 2.72E-05    0.084521    0.539232
0.28163    0.203643    0.142376    0.575072
 2.72E-05    0.156521    0.520280
0.42245    0.203643    0.142376    0.575072
 2.72E-05    0.397563    0.501328
0.56326    0.203643    0.142376    0.575072
 2.72E-05    0.638605    0.482377

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.203643   -0.142376   -0.575072
-2.72E-05   -0.325563   -0.298372
0.14082   -0.203643   -0.142376   -0.575072
-2.72E-05   -0.084521   -0.303162
0.28163   -0.203643   -0.142376   -0.575072
-2.72E-05   -0.156521   -0.307952
0.42245   -0.203643   -0.142376   -0.575072
-2.72E-05   -0.397563   -0.312743
0.56326   -0.203643   -0.142376   -0.575072
-2.72E-05   -0.638605   -0.317533

ELEM      258 ================== LENGTH
=    2.977041

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43668   -0.045358   -0.004526   -0.003507
-5.93E-07   -0.003678    0.065267
0.57751   -0.045358   -0.004526   -0.003507
-5.93E-07   -0.002208    0.067164
0.71834   -0.045358   -0.004526   -0.003507
-5.93E-07   -0.000737    0.069062
0.85917   -0.045358   -0.004526   -0.003507
-5.93E-07    0.000733    0.070959
1.00000   -0.045358   -0.004526   -0.003507
-5.93E-07    0.002203    0.072857
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         519

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43668    0.210757    0.021057    0.017360
2.83E-06    0.018279   -0.303251
0.57751    0.210757    0.021057    0.017360
2.83E-06    0.011001   -0.312079
0.71834    0.210757    0.021057    0.017360
2.83E-06    0.003723   -0.320907
0.85917    0.210757    0.021057    0.017360
2.83E-06   -0.003555   -0.329735
1.00000    0.210757    0.021057    0.017360
2.83E-06   -0.010834   -0.338564

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43668   -0.041907   -0.002668    0.038968
-1.03E-06    0.043970   -0.024260
0.57751   -0.041907   -0.002668    0.038968
-1.03E-06    0.027632   -0.023142
0.71834   -0.041907   -0.002668    0.038968
-1.03E-06    0.011294   -0.022023
0.85917   -0.041907   -0.002668    0.038968
-1.03E-06   -0.005044   -0.020905
1.00000   -0.041907   -0.002668    0.038968
-1.03E-06   -0.021381   -0.019786

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43668   -0.054785    0.013463   -0.197574
-5.00E-06   -0.221191    0.465932
0.57751   -0.054785    0.013463   -0.197574
-5.00E-06   -0.138356    0.460288
0.71834   -0.054785    0.013463   -0.197574
-5.00E-06   -0.055522    0.454643
0.85917   -0.054785    0.013463   -0.197574
-5.00E-06    0.027313    0.448999
1.00000   -0.054785    0.013463   -0.197574
-5.00E-06    0.110148    0.443354

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43668   -0.297423   -0.092545    0.580248
 4.42E-05    0.650955   -0.022650
0.57751   -0.297423   -0.092545    0.580248
 4.42E-05    0.407680    0.016151
0.71834   -0.297423   -0.092545    0.580248
 4.42E-05    0.164406    0.054951
0.85917   -0.297423   -0.092545    0.580248
 4.42E-05   -0.078869    0.093751
1.00000   -0.297423   -0.092545    0.580248
 4.42E-05   -0.322144    0.132552

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43668    0.228716    0.065219   -0.435494
-4.04E-05   -0.488334   -0.181038
0.57751    0.228716    0.065219   -0.435494
-4.04E-05   -0.305749   -0.208382
0.71834    0.228716    0.065219   -0.435494
-4.04E-05   -0.123163   -0.235726
0.85917    0.228716    0.065219   -0.435494
-4.04E-05    0.059422   -0.263069
1.00000    0.228716    0.065219   -0.435494
-4.04E-05    0.242008   -0.290413

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43668   -0.384689   -0.099738    0.615708
 4.26E-05    0.691246    0.018357
0.57751   -0.384689   -0.099738    0.615708
 4.26E-05    0.433104    0.060173
0.71834   -0.384689   -0.099738    0.615708
 4.26E-05    0.174962    0.101990
0.85917   -0.384689   -0.099738    0.615708
 4.26E-05   -0.083180    0.143806
1.00000   -0.384689   -0.099738    0.615708
 4.26E-05   -0.341322    0.185623
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         520

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43668    0.384689    0.099738   -0.615708
-4.26E-05   -0.691246   -0.018357
0.57751    0.384689    0.099738   -0.615708
-4.26E-05   -0.433104   -0.060173
0.71834    0.384689    0.099738   -0.615708
-4.26E-05   -0.174962   -0.101990
0.85917    0.384689    0.099738   -0.615708
-4.26E-05    0.083180   -0.143806
1.00000    0.384689    0.099738   -0.615708
-4.26E-05    0.341322   -0.185623

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43668    0.384689    0.099738    0.615708
4.42E-05    0.691246    0.465932
0.57751    0.384689    0.099738    0.615708
4.42E-05    0.433104    0.460288
0.71834    0.384689    0.099738    0.615708
4.42E-05    0.174962    0.454643
0.85917    0.384689    0.099738    0.615708
4.42E-05    0.083180    0.448999
1.00000    0.384689    0.099738    0.615708
4.42E-05    0.341322    0.443354

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43668   -0.384689   -0.099738   -0.615708
-4.26E-05   -0.691246   -0.303251
0.57751   -0.384689   -0.099738   -0.615708
-4.26E-05   -0.433104   -0.312079
0.71834   -0.384689   -0.099738   -0.615708
-4.26E-05   -0.174962   -0.320907
0.85917   -0.384689   -0.099738   -0.615708
-4.26E-05   -0.083180   -0.329735
1.00000   -0.384689   -0.099738   -0.615708
-4.26E-05   -0.341322   -0.338564

ELEM      259 ================== LENGTH
=    2.977210

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.045228   -0.004586   -0.001853
 1.55E-07   -0.000815    0.072744
0.14084   -0.045228   -0.004586   -0.001853
 1.55E-07   -3.78E-05    0.074667
0.28167   -0.045228   -0.004586   -0.001853
 1.55E-07    0.000739    0.076590
0.42251   -0.045228   -0.004586   -0.001853
 1.55E-07    0.001517    0.078513
0.56335   -0.045228   -0.004586   -0.001853
 1.55E-07    0.002294    0.080436

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.210137    0.021337    0.009696
-7.94E-07    0.004399   -0.338037
0.14084    0.210137    0.021337    0.009696
-7.94E-07    0.000333   -0.346984
0.28167    0.210137    0.021337    0.009696
-7.94E-07   -0.003733   -0.355930
0.42251    0.210137    0.021337    0.009696
-7.94E-07   -0.007798   -0.364877
0.56335    0.210137    0.021337    0.009696
-7.94E-07   -0.011864   -0.373824

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.039352   -0.002362    0.042018
-6.04E-06    0.023881   -0.021584
0.14084   -0.039352   -0.002362    0.042018
-6.04E-06    0.006263   -0.020593
0.28167   -0.039352   -0.002362    0.042018
-6.04E-06   -0.011355   -0.019603
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         521

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42251   -0.039352   -0.002362    0.042018
-6.04E-06   -0.028973   -0.018612
0.56335   -0.039352   -0.002362    0.042018
-6.04E-06   -0.046592   -0.017621

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.063279    0.012149   -0.201602
 2.14E-05   -0.113287    0.449211
0.14084   -0.063279    0.012149   -0.201602
 2.14E-05   -0.028755    0.444117
0.28167   -0.063279    0.012149   -0.201602
 2.14E-05    0.055777    0.439023
0.42251   -0.063279    0.012149   -0.201602
 2.14E-05    0.140310    0.433929
0.56335   -0.063279    0.012149   -0.201602
 2.14E-05    0.224842    0.428835

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.286410   -0.091495    0.605810
-3.27E-05    0.343024    0.124647
0.14084   -0.286410   -0.091495    0.605810
-3.27E-05    0.089007    0.163011
0.28167   -0.286410   -0.091495    0.605810
-3.27E-05   -0.165011    0.201375
0.42251   -0.286410   -0.091495    0.605810
-3.27E-05   -0.419029    0.239739
0.56335   -0.286410   -0.091495    0.605810
-3.27E-05   -0.673046    0.278104

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.224133    0.064958   -0.454068
 1.79E-05   -0.257202   -0.286981
0.14084    0.224133    0.064958   -0.454068
 1.79E-05   -0.066810   -0.314218
0.28167    0.224133    0.064958   -0.454068
 1.79E-05    0.123582   -0.341455
0.42251    0.224133    0.064958   -0.454068
 1.79E-05    0.313974   -0.368692
0.56335    0.224133    0.064958   -0.454068
 1.79E-05    0.504366   -0.395929

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.370991   -0.098444    0.645974
-3.85E-05    0.366090    0.175807
0.14084   -0.370991   -0.098444    0.645974
-3.85E-05    0.095232    0.217085
0.28167   -0.370991   -0.098444    0.645974
-3.85E-05   -0.175627    0.258363
0.42251   -0.370991   -0.098444    0.645974
-3.85E-05   -0.446485    0.299640
0.56335   -0.370991   -0.098444    0.645974
-3.85E-05   -0.717344    0.340918

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.370991    0.098444   -0.645974
 3.85E-05   -0.366090   -0.175807
0.14084    0.370991    0.098444   -0.645974
 3.85E-05    0.095232   -0.217085
0.28167    0.370991    0.098444   -0.645974
 3.85E-05    0.175627   -0.258363
0.42251    0.370991    0.098444   -0.645974
 3.85E-05    0.446485   -0.299640
0.56335    0.370991    0.098444   -0.645974
 3.85E-05    0.717344   -0.340918

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.370991    0.098444    0.645974
3.85E-05    0.366090    0.449211
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         522

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.14084    0.370991    0.098444    0.645974
3.85E-05    0.095232    0.444117
0.28167    0.370991    0.098444    0.645974
3.85E-05    0.175627    0.439023
0.42251    0.370991    0.098444    0.645974
3.85E-05    0.446485    0.433929
0.56335    0.370991    0.098444    0.645974
3.85E-05    0.717344    0.428835

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.370991   -0.098444   -0.645974
-3.85E-05   -0.366090   -0.338037
0.14084   -0.370991   -0.098444   -0.645974
-3.85E-05   -0.095232   -0.346984
0.28167   -0.370991   -0.098444   -0.645974
-3.85E-05   -0.175627   -0.355930
0.42251   -0.370991   -0.098444   -0.645974
-3.85E-05   -0.446485   -0.364892
0.56335   -0.370991   -0.098444   -0.645974
-3.85E-05   -0.717344   -0.395929

ELEM      260 ================== LENGTH
=    2.977834

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43656   -0.017355   -0.006329   -0.002675
-7.13E-07   -0.002750    0.082587
0.57742   -0.017355   -0.006329   -0.002675
-7.13E-07    0.001828    0.085241
0.71828   -0.017355   -0.006329   -0.002675
-7.13E-07   -0.000506    0.087896
0.85914   -0.017355   -0.006329   -0.002675
-7.13E-07    0.000616    0.090550
1.00000   -0.017355   -0.006329   -0.002675
-7.13E-07    0.001738    0.093205

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43656    0.080530    0.029436    0.013426
3.38E-06    0.013892   -0.363739
0.57742    0.080530    0.029436    0.013426
3.38E-06    0.008260   -0.396087
0.71828    0.080530    0.029436    0.013426
3.38E-06    0.002629   -0.408434
0.85914    0.080530    0.029436    0.013426
3.38E-06   -0.003003   -0.420782
1.00000    0.080530    0.029436    0.013426
3.38E-06   -0.008635   -0.433129

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43656   -0.021498   -0.021881    0.048796
-1.36E-06    0.054908   -0.029236
0.57742   -0.021498   -0.021881    0.048796
-1.36E-06    0.034440   -0.020058
0.71828   -0.021498   -0.021881    0.048796
-1.36E-06    0.013973   -0.010880
0.85914   -0.021498   -0.021881    0.048796
-1.36E-06   -0.006495   -0.001702
1.00000   -0.021498   -0.021881    0.048796
-1.36E-06   -0.026963    0.007476

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43656   -0.002170    0.050561   -0.228413
-4.63E-06   -0.255521    0.492926
0.57742   -0.002170    0.050561   -0.228413
-4.63E-06   -0.159712    0.471718
0.71828   -0.002170    0.050561   -0.228413
-4.63E-06   -0.063902    0.450509
0.85914   -0.002170    0.050561   -0.228413
-4.63E-06    0.031908    0.429301
1.00000   -0.002170    0.050561   -0.228413
-4.63E-06    0.127717    0.408092
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         523

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43656   -0.137352   -0.077947    0.620868
 4.32E-05    0.696238    0.273867
0.57742   -0.137352   -0.077947    0.620868
 4.32E-05    0.435810    0.306562
0.71828   -0.137352   -0.077947    0.620868
 4.32E-05    0.175382    0.339258
0.85914   -0.137352   -0.077947    0.620868
 4.32E-05   -0.085046    0.371953
1.00000   -0.137352   -0.077947    0.620868
 4.32E-05   -0.345474    0.404649

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43656    0.097845    0.026159   -0.452001
-3.99E-05   -0.506767   -0.436404
0.57742    0.097845    0.026159   -0.452001
-3.99E-05   -0.317171   -0.447376
0.71828    0.097845    0.026159   -0.452001
-3.99E-05   -0.127576   -0.458349
0.85914    0.097845    0.026159   -0.452001
-3.99E-05    0.062020   -0.469321
1.00000    0.097845    0.026159   -0.452001
-3.99E-05    0.251616   -0.480294

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43656   -0.176205   -0.106157    0.666988
 4.12E-05    0.748396    0.327217
0.57742   -0.176205   -0.106157    0.666988
 4.12E-05    0.468623    0.371745
0.71828   -0.176205   -0.106157    0.666988
 4.12E-05    0.188849    0.416274
0.85914   -0.176205   -0.106157    0.666988
 4.12E-05   -0.090925    0.460802
1.00000   -0.176205   -0.106157    0.666988
 4.12E-05   -0.370699    0.505330

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43656    0.176205    0.106157   -0.666988
-4.12E-05   -0.748396   -0.327217
0.57742    0.176205    0.106157   -0.666988
-4.12E-05   -0.468623   -0.371745
0.71828    0.176205    0.106157   -0.666988
-4.12E-05   -0.188849   -0.416274
0.85914    0.176205    0.106157   -0.666988
-4.12E-05    0.090925   -0.460802
1.00000    0.176205    0.106157   -0.666988
-4.12E-05    0.370699   -0.505330

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43656    0.176205    0.106157    0.666988
4.32E-05    0.748396    0.492926
0.57742    0.176205    0.106157    0.666988
4.32E-05    0.468623    0.471718
0.71828    0.176205    0.106157    0.666988
4.32E-05    0.188849    0.450509
0.85914    0.176205    0.106157    0.666988
4.32E-05    0.090925    0.460802
1.00000    0.176205    0.106157    0.666988
4.32E-05    0.370699    0.505330

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43656   -0.176205   -0.106157   -0.666988
-4.12E-05   -0.748396   -0.436404
0.57742   -0.176205   -0.106157   -0.666988
-4.12E-05   -0.468623   -0.447376
0.71828   -0.176205   -0.106157   -0.666988
-4.12E-05   -0.188849   -0.458349
0.85914   -0.176205   -0.106157   -0.666988
-4.12E-05   -0.090925   -0.469321
1.00000   -0.176205   -0.106157   -0.666988
-4.12E-05   -0.370699   -0.505330
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         524

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      261 ================== LENGTH
=    2.976788

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.017286   -0.005747   -0.001408
 3.33E-07   -0.000561    0.093135
0.14082   -0.017286   -0.005747   -0.001408
 3.33E-07    2.91E-05    0.095544
0.28164   -0.017286   -0.005747   -0.001408
 3.33E-07    0.000619    0.097953
0.42247   -0.017286   -0.005747   -0.001408
 3.33E-07    0.001210    0.100361
0.56329   -0.017286   -0.005747   -0.001408
 3.33E-07    0.001800    0.102770

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.080201    0.026726    0.007567
-1.62E-06    0.003187   -0.432800
0.14082    0.080201    0.026726    0.007567
-1.62E-06    1.50E-05   -0.444004
0.28164    0.080201    0.026726    0.007567
-1.62E-06   -0.003157   -0.455207
0.42247    0.080201    0.026726    0.007567
-1.62E-06   -0.006329   -0.466410
0.56329    0.080201    0.026726    0.007567
-1.62E-06   -0.009501   -0.477614

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.019944   -0.015441    0.051606
-8.01E-06    0.029350    0.006323
0.14082   -0.019944   -0.015441    0.051606
-8.01E-06    0.007717    0.012795
0.28164   -0.019944   -0.015441    0.051606
-8.01E-06   -0.013917    0.019268
0.42247   -0.019944   -0.015441    0.051606
-8.01E-06   -0.035550    0.025741
0.56329   -0.019944   -0.015441    0.051606
-8.01E-06   -0.057183    0.032214

LOAD      -P3 ------------------
```

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.007422	0.030425	-0.233615
2.90E-05	-0.113595	0.411861	
0.14082	-0.007422	0.030425	-0.233615
2.90E-05	-0.033664	0.399106	
0.28164	-0.007422	0.030425	-0.233615
2.90E-05	0.064267	0.386352	
0.42247	-0.007422	0.030425	-0.233615
2.90E-05	0.162198	0.373598	
0.56329	-0.007422	0.030425	-0.233615
2.90E-05	0.260128	0.360844	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.130362	-0.049251	0.646365
-3.89E-05	0.366570	0.399590	
0.14082	-0.130362	-0.049251	0.646365
-3.89E-05	0.095616	0.420236	
0.28164	-0.130362	-0.049251	0.646365
-3.89E-05	-0.175338	0.440882	
0.42247	-0.130362	-0.049251	0.646365
-3.89E-05	-0.446293	0.461527	
0.56329	-0.130362	-0.049251	0.646365
-3.89E-05	-0.717247	0.482173	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.094813	0.013287	-0.470515
1.91E-05	-0.266951	-0.478107	
0.14082	0.094813	0.013287	-0.470515
1.91E-05	-0.069713	-0.483677	
0.28164	0.094813	0.013287	-0.470515
1.91E-05	0.127526	-0.489247	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42247	0.094813	0.013287	-0.470515
1.91E-05	0.324764	-0.494817	
0.56329	0.094813	0.013287	-0.470515
1.91E-05	0.522002	-0.500387	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.167592	-0.070439	0.696563
-4.65E-05	0.395359	0.499047	
0.14082	-0.167592	-0.070439	0.696563
-4.65E-05	0.103362	0.528575	
0.28164	-0.167592	-0.070439	0.696563
-4.65E-05	-0.188636	0.558102	
0.42247	-0.167592	-0.070439	0.696563
-4.65E-05	-0.480633	0.587630	
0.56329	-0.167592	-0.070439	0.696563
-4.65E-05	-0.772630	0.617157	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167592	0.070439	-0.696563
4.65E-05	-0.395359	-0.499047	
0.14082	0.167592	0.070439	-0.696563
4.65E-05	-0.103362	-0.528575	
0.28164	0.167592	0.070439	-0.696563
4.65E-05	0.188636	-0.558102	
0.42247	0.167592	0.070439	-0.696563
4.65E-05	0.480633	-0.587630	
0.56329	0.167592	0.070439	-0.696563
4.65E-05	0.772630	-0.617157	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.167592	0.070439	0.696563
4.65E-05	0.395359	0.499047	
0.14082	0.167592	0.070439	0.696563
4.65E-05	0.103362	0.528575	
0.28164	0.167592	0.070439	0.696563
4.65E-05	0.188636	0.558102	
0.42247	0.167592	0.070439	0.696563
4.65E-05	0.480633	0.587630	
0.56329	0.167592	0.070439	0.696563
4.65E-05	0.772630	0.617157	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.167592	-0.070439	-0.696563
-4.65E-05	-0.499047	-0.395359	
0.14082	-0.167592	-0.070439	-0.696563
-4.65E-05	-0.103362	-0.528575	
0.28164	-0.167592	-0.070439	-0.696563
-4.65E-05	-0.188636	-0.558102	
0.42247	-0.167592	-0.070439	-0.696563
-4.65E-05	-0.480633	-0.587630	
0.56329	-0.167592	-0.070439	-0.696563
-4.65E-05	-0.772630	-0.617157	

ELEM 262 ========== LENGTH = 2.977482

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.137584	0.005876	-0.001158
-6.86E-07	-0.001183	0.138984	
0.57746	0.137584	0.005876	-0.001158
-6.86E-07	-0.000697	0.136520	
0.71831	0.137584	0.005876	-0.001158
-6.86E-07	-0.000211	0.134055	
0.85915	0.137584	0.005876	-0.001158
-6.86E-07	0.000275	0.131591	
1.00000	0.137584	0.005876	-0.001158
-6.86E-07	0.000761	0.129127	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.639564	-0.027304	0.006314
3.26E-06	0.006547	-0.645860	
0.57746	-0.639564	-0.027304	0.006314
3.26E-06	0.003899	-0.634409	
0.71831	-0.639564	-0.027304	0.006314
3.26E-06	0.001251	-0.622959	
0.85915	-0.639564	-0.027304	0.006314
3.26E-06	-0.001397	-0.611509	
1.00000	-0.639564	-0.027304	0.006314
3.26E-06	-0.004045	-0.600058	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.143697	-0.038299	0.055282
-1.61E-06	0.062706	-0.038206	
0.57746	0.143697	-0.038299	0.055282
-1.61E-06	0.039522	-0.022144	
0.71831	0.143697	-0.038299	0.055282
-1.61E-06	0.016338	-0.006083	
0.85915	0.143697	-0.038299	0.055282
-1.61E-06	-0.006845	0.009979	
1.00000	0.143697	-0.038299	0.055282
-1.61E-06	-0.030029	0.026040	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.120439	0.133356	-0.243374
-3.90E-06	-0.275249	0.699379	
0.57746	0.120439	0.133356	-0.243374
-3.90E-06	-0.173186	0.643454	
0.71831	0.120439	0.133356	-0.243374
-3.90E-06	-0.071122	0.587528	
0.85915	0.120439	0.133356	-0.243374
-3.90E-06	0.030942	0.531603	
1.00000	0.120439	0.133356	-0.243374
-3.90E-06	0.133006	0.475677	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.927643	0.060459	0.640598
4.39E-05	0.724942	0.806382	
0.57746	0.927643	0.060459	0.640598
4.39E-05	0.456294	0.781027	
0.71831	0.927643	0.060459	0.640598
4.39E-05	0.187646	0.755673	
0.85915	0.927643	0.060459	0.640598
4.39E-05	-0.081002	0.730318	
1.00000	0.927643	0.060459	0.640598
4.39E-05	-0.349650	0.704964	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.689798	-0.134088	-0.457663
-4.10E-05	-0.517763	-0.960680	
0.57746	-0.689798	-0.134088	-0.457663
-4.10E-05	-0.325833	-0.904447	
0.71831	-0.689798	-0.134088	-0.457663
-4.10E-05	-0.133902	-0.848215	
0.85915	-0.689798	-0.134088	-0.457663
-4.10E-05	0.058028	-0.791982	
1.00000	-0.689798	-0.134088	-0.457663
-4.10E-05	0.249958	-0.735750	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.208924	0.028036	0.694722
4.16E-05	0.786465	0.907160	
0.57746	1.208924	0.028036	0.694722
4.16E-05	0.495119	0.895403	
0.71831	1.208924	0.028036	0.694722
4.16E-05	0.203773	0.883646	
0.85915	1.208924	0.028036	0.694722
4.16E-05	-0.087573	0.871888	
1.00000	1.208924	0.028036	0.694722
4.16E-05	-0.378919	0.860131	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-1.208924	-0.028036	-0.694722
-4.16E-05	-0.786465	-0.907160	
0.57746	-1.208924	-0.028036	-0.694722
-4.16E-05	-0.495119	-0.895403	
0.71831	-1.208924	-0.028036	-0.694722
-4.16E-05	-0.203773	-0.883646	
0.85915	-1.208924	-0.028036	-0.694722
-4.16E-05	0.087573	-0.871888	
1.00000	-1.208924	-0.028036	-0.694722
-4.16E-05	0.378919	-0.860131	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	1.208924	0.133356	0.694722
4.39E-05	0.786465	0.907160	
0.57746	1.208924	0.133356	0.694722
4.39E-05	0.495119	0.895403	
0.71831	1.208924	0.133356	0.694722
4.39E-05	0.203773	0.883646	
0.85915	1.208924	0.133356	0.694722
4.39E-05	0.087573	0.871888	
1.00000	1.208924	0.133356	0.694722
4.39E-05	0.378919	0.860131	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-1.208924	-0.134088	-0.694722
-4.16E-05	-0.786465	-0.960680	
0.57746	-1.208924	-0.134088	-0.694722
-4.16E-05	-0.495119	-0.904447	
0.71831	-1.208924	-0.134088	-0.694722
-4.16E-05	-0.203773	-0.883646	
0.85915	-1.208924	-0.134088	-0.694722
-4.16E-05	-0.087573	-0.871888	
1.00000	-1.208924	-0.134088	-0.694722
-4.16E-05	-0.378919	-0.860131	

ELEM 263 ========== LENGTH = 2.975542

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.137793	0.004150	-0.001776
6.69E-07	-0.000678	0.129073	
0.14085	0.137793	0.004150	-0.001776
6.69E-07	-0.000133	0.127332	
0.28170	0.137793	0.004150	-0.001776
6.69E-07	0.000612	0.125591	
0.42255	0.137793	0.004150	-0.001776
6.69E-07	0.001356	0.123851	
0.56340	0.137793	0.004150	-0.001776
6.69E-07	0.002101	0.122110	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.640580	-0.019278	0.009210
-3.18E-06	0.004611	-0.599806	
0.14085	-0.640580	-0.019278	0.009210
-3.18E-06	0.000749	-0.591722	
0.28170	-0.640580	-0.019278	0.009210
-3.18E-06	-0.003114	-0.583637	
0.42255	-0.640580	-0.019278	0.009210
-3.18E-06	-0.006976	-0.575552	
0.56340	-0.640580	-0.019278	0.009210
-3.18E-06	-0.010839	-0.567467	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.143437	-0.049759	0.055965
-9.38E-06	0.030986	0.025186	
0.14085	0.143437	-0.049759	0.055965
-9.38E-06	0.007516	0.046054	
0.28170	0.143437	-0.049759	0.055965
-9.38E-06	-0.015955	0.066923	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42255	0.143437	-0.049759	0.055965
-9.38E-06	-0.039426	0.087791	
0.56340	0.143437	-0.049759	0.055965
-9.38E-06	-0.062897	0.108659	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.123874	0.165920	-0.249620
3.52E-05	-0.137740	0.478455	
0.14085	0.123874	0.165920	-0.249620
3.52E-05	-0.033053	0.408871	
0.28170	0.123874	0.165920	-0.249620
3.52E-05	0.071634	0.339286	
0.42255	0.123874	0.165920	-0.249620
3.52E-05	0.176321	0.269702	
0.56340	0.123874	0.165920	-0.249620
3.52E-05	0.281008	0.200117	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.911904	0.008281	0.651920
-4.21E-05	0.361366	0.701232	
0.14085	0.911904	0.008281	0.651920
-4.21E-05	0.087960	0.697759	
0.28170	0.911904	0.008281	0.651920
-4.21E-05	-0.185446	0.694286	
0.42255	0.911904	0.008281	0.651920
-4.21E-05	-0.458852	0.690813	
0.56340	0.911904	0.008281	0.651920
-4.21E-05	-0.732258	0.687340	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.676429	-0.109315	-0.465700
1.88E-05	-0.258346	-0.734140	
0.14085	-0.676429	-0.109315	-0.465700
1.88E-05	-0.063039	-0.688294	
0.28170	-0.676429	-0.109315	-0.465700
1.88E-05	0.132269	-0.642449	
0.42255	-0.676429	-0.109315	-0.465700
1.88E-05	0.327577	-0.596604	
0.56340	-0.676429	-0.109315	-0.465700
1.88E-05	0.522885	-0.550759	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.193135	-0.037327	0.706110
-5.08E-05	0.391474	0.855491	
0.14085	1.193135	-0.037327	0.706110
-5.08E-05	0.095342	0.871145	
0.28170	1.193135	-0.037327	0.706110
-5.08E-05	0.200790	0.886800	
0.42255	1.193135	-0.037327	0.706110
-5.08E-05	0.496922	0.902455	
0.56340	1.193135	-0.037327	0.706110
-5.08E-05	0.793054	0.918109	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.193135	0.037327	-0.706110
5.08E-05	-0.391474	-0.855491	
0.14085	-1.193135	0.037327	-0.706110
5.08E-05	-0.095342	-0.871145	
0.28170	-1.193135	0.037327	-0.706110
5.08E-05	0.200790	-0.886800	
0.42255	-1.193135	0.037327	-0.706110
5.08E-05	0.496922	-0.902455	
0.56340	-1.193135	0.037327	-0.706110
5.08E-05	0.793054	-0.918109	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	1.193135	0.165920	0.706110
5.08E-05	0.391474	0.855491	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14085	1.193135	0.165920	0.706110
5.08E-05	0.095342	0.871145	
0.28170	1.193135	0.165920	0.706110
5.08E-05	0.200790	0.886800	
0.42255	1.193135	0.165920	0.706110
5.08E-05	0.496922	0.902455	
0.56340	1.193135	0.165920	0.706110
5.08E-05	0.793054	0.918109	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-1.193135	-0.109315	-0.706110
-5.08E-05	-0.391474	-0.855491	
0.14085	-1.193135	-0.109315	-0.706110
-5.08E-05	-0.095342	-0.871145	
0.28170	-1.193135	-0.109315	-0.706110
-5.08E-05	-0.200790	-0.886800	
0.42255	-1.193135	-0.109315	-0.706110
-5.08E-05	-0.496922	-0.902455	
0.56340	-1.193135	-0.109315	-0.706110
-5.08E-05	-0.793054	-0.918109	

ELEM 264 ========== LENGTH = 2.977322

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.521765	0.057842	0.000137
-1.37E-06	0.000285	0.299805	
0.57748	0.521765	0.057842	0.000137
-1.37E-06	0.000227	0.275550	
0.71832	0.521765	0.057842	0.000137
-1.37E-06	0.000170	0.251295	
0.85916	0.521765	0.057842	0.000137
-1.37E-06	0.000112	0.227040	
1.00000	0.521765	0.057842	0.000137
-1.37E-06	5.51E-05	0.202785	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-2.425486	-0.268924	0.000575
6.42E-06	-0.000129	-1.393426	
0.57748	-2.425486	-0.268924	0.000575
6.42E-06	-0.000370	-1.280658	
0.71832	-2.425486	-0.268924	0.000575
6.42E-06	-0.000611	-1.167890	
0.85916	-2.425486	-0.268924	0.000575
6.42E-06	-0.000852	-1.055123	
1.00000	-2.425486	-0.268924	0.000575
6.42E-06	-0.001093	-0.942355	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.515601	-0.075641	0.079837
-4.50E-06	0.078916	-0.049605	
0.57748	0.515601	-0.075641	0.079837
-4.50E-06	0.045438	-0.017887	
0.71832	0.515601	-0.075641	0.079837
-4.50E-06	0.011959	0.013832	
0.85916	0.515601	-0.075641	0.079837
-4.50E-06	-0.021519	0.045551	
1.00000	0.515601	-0.075641	0.079837
-4.50E-06	-0.054997	0.077269	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	0.592570	0.431735	-0.338238
3.88E-06	-0.333500	1.322769	
0.57748	0.592570	0.431735	-0.338238
3.88E-06	-0.191667	1.141729	
0.71832	0.592570	0.431735	-0.338238
3.88E-06	-0.049833	0.960689	
0.85916	0.592570	0.431735	-0.338238
3.88E-06	0.092000	0.779650	
1.00000	0.592570	0.431735	-0.338238
3.88E-06	0.233834	0.598610	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	3.092802	0.475139	0.880864
2.17E-05	0.869582	2.064321	
0.57748	3.092802	0.475139	0.880864
2.17E-05	0.500209	1.865081	
0.71832	3.092802	0.475139	0.880864
2.17E-05	0.130836	1.665841	
0.85916	3.092802	0.475139	0.880864
2.17E-05	-0.238537	1.466600	
1.00000	3.092802	0.475139	0.880864
2.17E-05	-0.607910	1.267360	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-2.297252	-0.620152	-0.623175
-2.61E-05	-0.615153	-2.243864	
0.57748	-2.297252	-0.620152	-0.623175
-2.61E-05	-0.353837	-1.983815	
0.71832	-2.297252	-0.620152	-0.623175
-2.61E-05	-0.092521	-1.723766	
0.85916	-2.297252	-0.620152	-0.623175
-2.61E-05	0.168795	-1.463718	
1.00000	-2.297252	-0.620152	-0.623175
-2.61E-05	0.430112	-1.203669	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.130168	0.457340	0.960838
1.58E-05	0.948782	2.314521	
0.57748	4.130168	0.457340	0.960838
1.58E-05	0.545874	2.122744	
0.71832	4.130168	0.457340	0.960838
1.58E-05	0.142965	1.930968	
0.85916	4.130168	0.457340	0.960838
1.58E-05	-0.259944	1.739191	
1.00000	4.130168	0.457340	0.960838
1.58E-05	-0.662852	1.547414	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-4.130168	-0.457340	-0.960838
-1.58E-05	-0.948782	-2.314521	
0.57748	-4.130168	-0.457340	-0.960838
-1.58E-05	-0.545874	-2.122744	
0.71832	-4.130168	-0.457340	-0.960838
-1.58E-05	-0.142965	-1.930968	
0.85916	-4.130168	-0.457340	-0.960838
-1.58E-05	0.259944	-1.739191	
1.00000	-4.130168	-0.457340	-0.960838
-1.58E-05	0.662852	-1.547414	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43663	4.130168	0.475139	0.960838
2.17E-05	0.948782	2.314521	
0.57748	4.130168	0.475139	0.960838
2.17E-05	0.545874	2.122744	
0.71832	4.130168	0.475139	0.960838
2.17E-05	0.142965	1.930968	
0.85916	4.130168	0.475139	0.960838
2.17E-05	0.259944	1.739191	
1.00000	4.130168	0.475139	0.960838
2.17E-05	0.662852	1.547414	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43663	-4.130168	-0.620152	-0.960838
-2.61E-05	-0.948782	-2.314521	
0.57748	-4.130168	-0.620152	-0.960838
-2.61E-05	-0.545874	-2.122744	
0.71832	-4.130168	-0.620152	-0.960838
-2.61E-05	-0.142965	-1.930968	
0.85916	-4.130168	-0.620152	-0.960838
-2.61E-05	-0.259944	-1.739191	
1.00000	-4.130168	-0.620152	-0.960838
-2.61E-05	-0.662852	-1.547414	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 265 ========== LENGTH = 2.977382

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.519609	0.062021	-0.003158
2.21E-06	-0.002050	0.202791	
0.14084	0.519609	0.062021	-0.003158
2.21E-06	-0.000726	0.176783	
0.28169	0.519609	0.062021	-0.003158
2.21E-06	0.000598	0.150774	
0.42253	0.519609	0.062021	-0.003158
2.21E-06	0.001923	0.124766	
0.56337	0.519609	0.062021	-0.003158
2.21E-06	0.003247	0.098758	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-2.413892	-0.288332	0.015909
-1.03E-05	0.010384	-0.942383	
0.14084	-2.413892	-0.288332	0.015909
-1.03E-05	0.003712	-0.821472	
0.28169	-2.413892	-0.288332	0.015909
-1.03E-05	-0.002959	-0.700562	
0.42253	-2.413892	-0.288332	0.015909
-1.03E-05	-0.009631	-0.579651	
0.56337	-2.413892	-0.288332	0.015909
-1.03E-05	-0.016302	-0.458740	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	

```
 0.00000     0.618640    -0.077970     0.077512
-7.06E-06    0.053852     0.077144
 0.14084     0.618640    -0.077970     0.077512
-7.06E-06    0.021348     0.109841
 0.28169     0.618640    -0.077970     0.077512
-7.06E-06   -0.011156     0.142537
 0.42253     0.618640    -0.077970     0.077512
-7.06E-06   -0.043660     0.175233
 0.56337     0.618640    -0.077970     0.077512
-7.06E-06   -0.076164     0.207930

LOAD      -P3 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     0.144555     0.458981    -0.346018
 3.27E-05   -0.239678     0.599080
 0.14084     0.144555     0.458981    -0.346018
 3.27E-05   -0.094577     0.406609
 0.28169     0.144555     0.458981    -0.346018
 3.27E-05    0.050524     0.214137
 0.42253     0.144555     0.458981    -0.346018
 3.27E-05    0.195625     0.021666
 0.56337     0.144555     0.458981    -0.346018
 3.27E-05    0.340726    -0.170806

LOAD      -P4 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     4.231917     0.478137     0.872411
-1.65E-05    0.605837     1.266859
 0.14084     4.231917     0.478137     0.872411
-1.65E-05    0.239995     1.066353
 0.28169     4.231917     0.478137     0.872411
-1.65E-05   -0.125846     0.865849
 0.42253     4.231917     0.478137     0.872411
-1.65E-05   -0.491688     0.665344
 0.56337     4.231917     0.478137     0.872411
-1.65E-05   -0.857529     0.464840

LOAD      -P5 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000    -3.100829    -0.632837    -0.616655
-1.03E-06   -0.428345    -1.203490
 0.14084    -3.100829    -0.632837    -0.616655
-1.03E-06   -0.169753    -0.938113
 0.28169    -3.100829    -0.632837    -0.616655
-1.03E-06    0.088839    -0.672736
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  532

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
 0.42253    -3.100829    -0.632837    -0.616655
-1.03E-06    0.347430    -0.407358
 0.56337    -3.100829    -0.632837    -0.616655
-1.03E-06    0.606022    -0.141981

LOAD    -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     5.370166     0.462188     0.946764
-2.14E-05    0.657639     1.546793
 0.14084     5.370166     0.462188     0.946764
-2.14E-05    0.260618     1.352977
 0.28169     5.370166     0.462188     0.946764
-2.14E-05   -0.136404     1.159160
 0.42253     5.370166     0.462188     0.946764
-2.14E-05   -0.533425     0.965344
 0.56337     5.370166     0.462188     0.946764
-2.14E-05   -0.930446     0.771527

LOAD    -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000    -5.370166    -0.462188    -0.946764
 2.14E-05   -0.657639    -1.546793
 0.14084    -5.370166    -0.462188    -0.946764
 2.14E-05   -0.260618    -1.352977
 0.28169    -5.370166    -0.462188    -0.946764
 2.14E-05    0.136404    -1.159160
 0.42253    -5.370166    -0.462188    -0.946764
 2.14E-05    0.533425    -0.965344
 0.56337    -5.370166    -0.462188    -0.946764
 2.14E-05    0.930446    -0.771527

COMB  SETTLE ------------------- MAX

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     5.370166     0.478137     0.946764
3.27E-05    0.657639     1.546793
 0.14084     5.370166     0.478137     0.946764
3.27E-05    0.260618     1.352977
 0.28169     5.370166     0.478137     0.946764
3.27E-05    0.136404     1.159160
 0.42253     5.370166     0.478137     0.946764
3.27E-05    0.533425     0.965344
 0.56337     5.370166     0.478137     0.946764
3.27E-05    0.930446     0.771527

COMB  SETTLE ------------------- MIN

REL DIST          P             V2             V3
       T          M2            M3
 0.00000    -5.370166    -0.632837    -0.946764
-2.14E-05   -0.657639    -1.546793
 0.14084    -5.370166    -0.632837    -0.946764
-2.14E-05   -0.260618    -1.352977
 0.28169    -5.370166    -0.632837    -0.946764
-2.14E-05   -0.136404    -1.159160
 0.42253    -5.370166    -0.632837    -0.946764
-2.14E-05   -0.533425    -0.965344
 0.56337    -5.370166    -0.632837    -0.946764
-2.14E-05   -0.930446    -0.771527

ELEM      266 ================== LENGTH
=     2.977820

LOAD      -A1 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43656     0.676255     0.091912     0.000503
-1.56E-06    0.000561     0.397986
 0.57742     0.676255     0.091912     0.000503
-1.56E-06    0.000349     0.359434
 0.71828     0.676255     0.091912     0.000503
-1.56E-06    0.000138     0.320881
 0.85914     0.676255     0.091912     0.000503
-1.56E-06   -7.26E-05     0.282328
 1.00000     0.676255     0.091912     0.000503
-1.56E-06   -0.000284     0.243775
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  533

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43656    -3.141578    -0.427352    -0.001279
-7.30E-06    0.001498     1.849882
 0.57742    -3.141578    -0.427352    -0.001279
 7.30E-06   -0.000961    -1.670626
 0.71828    -3.141578    -0.427352    -0.001279
 7.30E-06   -0.000425    -1.491371
 0.85914    -3.141578    -0.427352    -0.001279
 7.30E-06    0.000112    -1.312116
 1.00000    -3.141578    -0.427352    -0.001279
 7.30E-06    0.000648    -1.132861

LOAD      -P2 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43656     0.799765    -0.176456     0.070770
-4.00E-06    0.073988    -0.168844
 0.57742     0.799765    -0.176456     0.070770
-4.00E-06    0.044303    -0.094829
 0.71828     0.799765    -0.176456     0.070770
-4.00E-06    0.014618    -0.020813
 0.85914     0.799765    -0.176456     0.070770
-4.00E-06   -0.015067     0.053202
 1.00000     0.799765    -0.176456     0.070770
-4.00E-06   -0.044752     0.127217

LOAD      -P3 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43656     0.212069     0.856733    -0.297520
 7.28E-07   -0.310867     2.039255
 0.57742     0.212069     0.856733    -0.297520
 7.28E-07   -0.166071     1.679893
 0.71828     0.212069     0.856733    -0.297520
 7.28E-07   -0.061275     1.320532
 0.85914     0.212069     0.856733    -0.297520
 7.28E-07    0.063522     0.961171
 1.00000     0.212069     0.856733    -0.297520
 7.28E-07    0.188318     0.601810

LOAD      -P4 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43656     5.438192     0.699720     0.776311
2.82E-05    0.811468     2.788281
 0.57742     5.438192     0.699720     0.776311
2.82E-05    0.485840     2.494780
 0.71828     5.438192     0.699720     0.776311
2.82E-05    0.160212     2.201279
 0.85914     5.438192     0.699720     0.776311
2.82E-05   -0.165415     1.907777
 1.00000     5.438192     0.699720     0.776311
2.82E-05   -0.491043     1.614276

LOAD      -P5 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43656    -3.984703    -1.044556    -0.548785
-3.07E-05   -0.573651    -3.206796
 0.57742    -3.984703    -1.044556    -0.548785
-3.07E-05   -0.343460    -2.768651
 0.71828    -3.984703    -1.044556    -0.548785
-3.07E-05   -0.113270    -2.330507
 0.85914    -3.984703    -1.044556    -0.548785
-3.07E-05    0.116921    -1.892362
 1.00000    -3.984703    -1.044556    -0.548785
-3.07E-05    0.347112    -1.454218

LOAD    -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43656     6.914211     0.615176     0.847584
2.26E-05    0.886016     3.017423
 0.57742     6.914211     0.615176     0.847584
2.26E-05    0.530492     2.759384
 0.71828     6.914211     0.615176     0.847584
2.26E-05    0.174969     2.501346
 0.85914     6.914211     0.615176     0.847584
2.26E-05   -0.180555     2.243307
 1.00000     6.914211     0.615176     0.847584
2.26E-05   -0.536078     1.985269
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  534

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD    -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43656    -6.914211    -0.615176    -0.847584
-2.26E-05   -0.886016    -3.017423
 0.57742    -6.914211    -0.615176    -0.847584
-2.26E-05   -0.530492    -2.759384
 0.71828    -6.914211    -0.615176    -0.847584
-2.26E-05   -0.174969    -2.501346
 0.85914    -6.914211    -0.615176    -0.847584
-2.26E-05    0.180555    -2.243307
 1.00000    -6.914211    -0.615176    -0.847584
-2.26E-05    0.536078    -1.985269

COMB  SETTLE ------------------- MAX

REL DIST          P             V2             V3
       T          M2            M3
 0.43656     6.914211     0.856733     0.847584
2.82E-05    0.886016     3.017423
 0.57742     6.914211     0.856733     0.847584
2.82E-05    0.530492     2.759384
 0.71828     6.914211     0.856733     0.847584
2.82E-05    0.174969     2.501346
 0.85914     6.914211     0.856733     0.847584
2.82E-05    0.180555     2.243307
 1.00000     6.914211     0.856733     0.847584
2.82E-05    0.536078     1.985269

COMB  SETTLE ------------------- MIN

REL DIST          P             V2             V3
       T          M2            M3
 0.43656    -6.914211    -1.044556    -0.847584
-3.07E-05   -0.886016    -3.206796
 0.57742    -6.914211    -1.044556    -0.847584
-3.07E-05   -0.530492    -2.768651
 0.71828    -6.914211    -1.044556    -0.847584
-3.07E-05   -0.174969    -2.501346
 0.85914    -6.914211    -1.044556    -0.847584
-3.07E-05   -0.180555    -2.243307
 1.00000    -6.914211    -1.044556    -0.847584
-3.07E-05   -0.536078    -1.985269

ELEM      267 ================== LENGTH
=     2.976890

LOAD      -A1 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     0.678439     0.090703    -0.003132
2.68E-06    -0.001946     0.243776
 0.14083     0.678439     0.090703    -0.003132
2.68E-06    -0.000633     0.205751
 0.28165     0.678439     0.090703    -0.003132
2.68E-06     0.000680     0.167726
 0.42248     0.678439     0.090703    -0.003132
2.68E-06     0.001993     0.129701
 0.56330     0.678439     0.090703    -0.003132
2.68E-06     0.003306     0.091677

LOAD      -P1 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000    -3.153484    -0.421772     0.015638
-1.25E-05    0.009734    -1.132865
 0.14083    -3.153484    -0.421772     0.015638
-1.25E-05    0.003178    -0.956049
 0.28165    -3.153484    -0.421772     0.015638
-1.25E-05   -0.003378    -0.779233
 0.42248    -3.153484    -0.421772     0.015638
-1.25E-05   -0.009934    -0.602416
 0.56330    -3.153484    -0.421772     0.015638
-1.25E-05   -0.016489    -0.425600

LOAD      -P2 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     0.683930    -0.148191     0.068187
-7.43E-06    0.043408     0.127216
 0.14083     0.683930    -0.148191     0.068187
-7.43E-06    0.014823     0.189341
 0.28165     0.683930    -0.148191     0.068187
-7.43E-06   -0.013763     0.251466
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  535

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
 0.42248     0.683930    -0.148191     0.068187
-7.43E-06   -0.042348     0.313591
 0.56330     0.683930    -0.148191     0.068187
-7.43E-06   -0.070933     0.375716

LOAD      -P3 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     0.714045     0.751187    -0.306024
 3.66E-05   -0.194574     0.601812
 0.14083     0.714045     0.751187    -0.306024
 3.66E-05   -0.066282     0.286897
 0.28165     0.714045     0.751187    -0.306024
 3.66E-05    0.062010    -0.028918
 0.42248     0.714045     0.751187    -0.306024
 3.66E-05    0.190303    -0.342932
 0.56330     0.714045     0.751187    -0.306024
 3.66E-05    0.318595    -0.657847

LOAD      -P4 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     4.162902     0.813919     0.766717
-2.14E-05    0.487955     1.614333
 0.14083     4.162902     0.813919     0.766717
-2.14E-05    0.166530     1.273119
 0.28165     4.162902     0.813919     0.766717
-2.14E-05   -0.154895     0.931906
 0.42248     4.162902     0.813919     0.766717
-2.14E-05   -0.476320     0.590693
 0.56330     4.162902     0.813919     0.766717
-2.14E-05   -0.797745     0.249480

LOAD      -P5 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000    -3.085832    -1.085847    -0.541385
 2.04E-06   -0.344577    -1.454271
 0.14083    -3.085832    -1.085847    -0.541385
 2.04E-06   -0.117616    -0.999060
 0.28165    -3.085832    -1.085847    -0.541385
 2.04E-06    0.109345    -0.543848
 0.42248    -3.085832    -1.085847    -0.541385
 2.04E-06    0.336306    -0.088637
 0.56330    -3.085832    -1.085847    -0.541385
 2.04E-06    0.563267     0.366574

LOAD    -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     5.525271     0.756431     0.831771
-2.62E-05    0.529417     1.985325
 0.14083     5.525271     0.756431     0.831771
-2.62E-05    0.180720     1.668212
 0.28165     5.525271     0.756431     0.831771
-2.62E-05   -0.167977     1.351099
 0.42248     5.525271     0.756431     0.831771
-2.62E-05   -0.516675     1.033986
 0.56330     5.525271     0.756431     0.831771
-2.62E-05   -0.865372     0.716873

LOAD    -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000    -5.525271    -0.756431    -0.831771
 2.62E-05   -0.529417    -1.985325
 0.14083    -5.525271    -0.756431    -0.831771
 2.62E-05   -0.180720    -1.668212
 0.28165    -5.525271    -0.756431    -0.831771
 2.62E-05    0.167977    -1.351099
 0.42248    -5.525271    -0.756431    -0.831771
 2.62E-05    0.516675    -1.033986
 0.56330    -5.525271    -0.756431    -0.831771
 2.62E-05    0.865372    -0.716873

COMB  SETTLE ------------------- MAX

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     5.525271     0.813919     0.831771
3.66E-05    0.529417     1.985325
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  536

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
 0.14083     5.525271     0.813919     0.831771
3.66E-05    0.180720     1.668212
 0.28165     5.525271     0.813919     0.831771
3.66E-05    0.167977     1.351099
 0.42248     5.525271     0.813919     0.831771
3.66E-05    0.516675     1.033986
 0.56330     5.525271     0.813919     0.831771
3.66E-05    0.865372     0.716873

COMB  SETTLE ------------------- MIN

REL DIST          P             V2             V3
       T          M2            M3
 0.00000    -5.525271    -1.085847    -0.831771
-2.62E-05   -0.529417    -1.985325
 0.14083    -5.525271    -1.085847    -0.831771
-2.62E-05   -0.180720    -1.668212
 0.28165    -5.525271    -1.085847    -0.831771
-2.62E-05   -0.167977    -1.351099
 0.42248    -5.525271    -1.085847    -0.831771
-2.62E-05   -0.516675    -1.033986
 0.56330    -5.525271    -1.085847    -0.831771
-2.62E-05   -0.865372    -0.716873

ELEM      268 ================== LENGTH
=     2.976955

LOAD      -A1 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43669     0.098681     0.948726     0.482209
7.23E-05    0.598983     3.796555
 0.57752     0.098681     0.948726     0.482209
7.23E-05    0.396823     3.398812
 0.71834     0.098681     0.948726     0.482209
7.23E-05    0.194662     3.001069
 0.85917     0.098681     0.948726     0.482209
7.23E-05   -0.007499     2.603327
 1.00000     0.098681     0.948726     0.482209
7.23E-05   -0.209660     2.205584

LOAD      -P1 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43669    -0.280500    -2.734688    -0.602853
-8.03E-05   -0.749619    -7.946025
 0.57752    -0.280500    -2.734688    -0.602853
-8.03E-05   -0.496880    -6.799538
 0.71834    -0.280500    -2.734688    -0.602853
-8.03E-05   -0.244141    -5.653050
 0.85917    -0.280500    -2.734688    -0.602853
-8.03E-05    0.008599    -4.506563
 1.00000    -0.280500    -2.734688    -0.602853
-8.03E-05    0.261338    -3.360075

LOAD      -P2 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43669     0.005825     1.415356     0.162982
3.76E-06    0.203162     2.661814
 0.57752     0.005825     1.415356     0.162982
3.76E-06    0.134833     2.068442
 0.71834     0.005825     1.415356     0.162982
3.76E-06    0.066505     1.475070
 0.85917     0.005825     1.415356     0.162982
3.76E-06   -0.001824     0.881698
 1.00000     0.005825     1.415356     0.162982
3.76E-06   -0.070152     0.288326

LOAD      -P3 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43669     0.224444     0.480787    -0.053750
 5.79E-06   -0.066667     1.933216
 0.57752     0.224444     0.480787    -0.053750
 5.79E-06   -0.044133     1.733651
 0.71834     0.224444     0.480787    -0.053750
 5.79E-06   -0.021599     1.532087
 0.85917     0.224444     0.480787    -0.053750
 5.79E-06    0.000936     1.330523
 1.00000     0.224444     0.480787    -0.053750
 5.79E-06    0.023470     1.128958
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  537

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43669    -0.058017    -0.133169     0.012235
-2.12E-06    0.015180    -0.550698
 0.57752    -0.058017    -0.133169     0.012235
-2.12E-06    0.010050    -0.494868
 0.71834    -0.058017    -0.133169     0.012235
-2.12E-06    0.004921    -0.439039
 0.85917    -0.058017    -0.133169     0.012235
-2.12E-06   -0.000208    -0.383209
 1.00000    -0.058017    -0.133169     0.012235
-2.12E-06   -0.005337    -0.327379

LOAD      -P5 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43669     0.009567     0.022989    -0.000823
 6.32E-07   -0.001039     0.103139
 0.57752     0.009567     0.022989    -0.000823
 6.32E-07   -0.000694     0.093501
 0.71834     0.009567     0.022989    -0.000823
 6.32E-07   -0.000349     0.083863
 0.85917     0.009567     0.022989    -0.000823
 6.32E-07   -3.77E-06     0.074225
 1.00000     0.009567     0.022989    -0.000823
 6.32E-07    0.000341     0.064587

LOAD    -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43669     0.046489     2.230912     0.657426
7.39E-05    0.817325     5.907671
 0.57752     0.046489     2.230912     0.657426
7.39E-05    0.541706     4.972386
 0.71834     0.046489     2.230912     0.657426
7.39E-05    0.266088     4.037100
 0.85917     0.046489     2.230912     0.657426
7.39E-05   -0.009531     3.101815
 1.00000     0.046489     2.230912     0.657426
7.39E-05   -0.285149     2.166530

LOAD    -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.43669    -0.046489    -2.230912    -0.657426
-7.39E-05   -0.817325    -5.907671
 0.57752    -0.046489    -2.230912    -0.657426
-7.39E-05   -0.541706    -4.972386
 0.71834    -0.046489    -2.230912    -0.657426
-7.39E-05   -0.266088    -4.037100
 0.85917    -0.046489    -2.230912    -0.657426
-7.39E-05    0.009531    -3.101815
 1.00000    -0.046489    -2.230912    -0.657426
-7.39E-05    0.285149    -2.166530

COMB  SETTLE ------------------- MAX

REL DIST          P             V2             V3
       T          M2            M3
 0.43669     0.224444     2.230912     0.657426
7.39E-05    0.817325     5.907671
 0.57752     0.224444     2.230912     0.657426
7.39E-05    0.541706     4.972386
 0.71834     0.224444     2.230912     0.657426
7.39E-05    0.266088     4.037100
 0.85917     0.224444     2.230912     0.657426
7.39E-05    0.009531     3.101815
 1.00000     0.224444     2.230912     0.657426
7.39E-05    0.285149     2.205584

COMB  SETTLE ------------------- MIN

REL DIST          P             V2             V3
       T          M2            M3
 0.43669    -0.280500    -2.734688    -0.657426
-8.03E-05   -0.817325    -7.946025
 0.57752    -0.280500    -2.734688    -0.657426
-8.03E-05   -0.541706    -6.799538
 0.71834    -0.280500    -2.734688    -0.657426
-8.03E-05   -0.266088    -5.653050
 0.85917    -0.280500    -2.734688    -0.657426
-8.03E-05   -0.009531    -4.506563
 1.00000    -0.280500    -2.734688    -0.657426
-8.03E-05   -0.285149    -3.360075
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  538

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      269 ================== LENGTH
=     2.977946

LOAD      -A1 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000     0.283506     0.870536     0.478953
-5.15E-05    0.205395     2.205521
 0.14086     0.283506     0.870536     0.478953
-5.15E-05    0.000481     1.840343
 0.28173     0.283506     0.870536     0.478953
-5.15E-05   -0.196434     1.475165
 0.42259     0.283506     0.870536     0.478953
-5.15E-05   -0.397348     1.109987
 0.56346     0.283506     0.870536     0.478953
-5.15E-05   -0.598262     0.744809

LOAD      -P1 --------------------

REL DIST          P             V2             V3
       T          M2            M3
 0.00000    -0.516056    -2.572297    -0.603556
 8.26E-05   -0.259353    -3.360014
 0.14086    -0.516056    -2.572297    -0.603556
```

8.26E-05	-0.006169	-2.280970	
0.28173	-0.516056	-2.572297	-0.603556
8.26E-05	0.247014	-1.201926	
0.42259	-0.516056	-2.572297	-0.603556
8.26E-05	0.500198	-0.122883	
0.56346	-0.516056	-2.572297	-0.603556
8.26E-05	0.753381	0.956161	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.073012	1.308597	0.164014
-3.31E-05	0.070502	0.288322	
0.14086	0.073012	1.308597	0.164014
-3.31E-05	0.001701	-0.260617	
0.28173	0.073012	1.308597	0.164014
-3.31E-05	-0.067101	-0.809556	
0.42259	0.073012	1.308597	0.164014
-3.31E-05	-0.135902	-1.358495	
0.56346	0.073012	1.308597	0.164014
-3.31E-05	-0.204704	-1.907434	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.203540	0.510149	-0.049897
2.54E-06	-0.020919	1.128965	
0.14086	0.203540	0.510149	-0.049897
2.54E-06	1.16E-05	0.914964	
0.28173	0.203540	0.510149	-0.049897
2.54E-06	0.020943	0.700964	
0.42259	0.203540	0.510149	-0.049897
2.54E-06	0.041873	0.486963	
0.56346	0.203540	0.510149	-0.049897
2.54E-06	0.062804	0.272962	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.053198	-0.141524	0.011237
-4.95E-07	0.004693	-0.327381	
0.14086	-0.053198	-0.141524	0.011237
-4.95E-07	-2.03E-05	-0.268013	
0.28173	-0.053198	-0.141524	0.011237
-4.95E-07	-0.004734	-0.208646	
0.42259	-0.053198	-0.141524	0.011237
-4.95E-07	-0.009448	-0.149278	
0.56346	-0.053198	-0.141524	0.011237
-4.95E-07	-0.014162	-0.089911	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.009195	0.024539	-0.000751
-7.47E-09	-0.000318	0.064587	
0.14086	0.009195	0.024539	-0.000751
-7.47E-09	-3.21E-06	0.054293	
0.28173	0.009195	0.024539	-0.000751
-7.47E-09	0.000312	0.043999	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 539
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.42259	0.009195	0.024539	-0.000751
-7.47E-09	0.000627	0.033706	
0.56346	0.009195	0.024539	-0.000751
-7.47E-09	0.000942	0.023412	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.303320	2.037609	0.654203
-8.51E-05	0.280590	2.166462	
0.14086	0.303320	2.037609	0.654203
-8.51E-05	0.006161	1.311713	
0.28173	0.303320	2.037609	0.654203
-8.51E-05	-0.268269	0.456963	
0.42259	0.303320	2.037609	0.654203
-8.51E-05	-0.542698	-0.397786	
0.56346	0.303320	2.037609	0.654203
-8.51E-05	-0.817128	-1.252535	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.303320	-2.037609	-0.654203
8.51E-05	-0.280590	-2.166462	
0.14086	-0.303320	-2.037609	-0.654203
8.51E-05	-0.006161	-1.311713	
0.28173	-0.303320	-2.037609	-0.654203
8.51E-05	0.268269	-0.456963	
0.42259	-0.303320	-2.037609	-0.654203
8.51E-05	0.542698	0.397786	
0.56346	-0.303320	-2.037609	-0.654203
8.51E-05	0.817128	1.252535	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.303320	2.037609	0.654203
8.51E-05	0.280590	2.205521	
0.14086	0.303320	2.037609	0.654203
8.51E-05	0.006161	1.840343	
0.28173	0.303320	2.037609	0.654203
8.51E-05	0.268269	1.475165	
0.42259	0.303320	2.037609	0.654203
8.51E-05	0.542698	1.109987	
0.56346	0.303320	2.037609	0.654203
8.51E-05	0.817128	1.252535	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.516056	-2.572297	-0.654203
-8.51E-05	-0.280590	-3.360014	
0.14086	-0.516056	-2.572297	-0.654203
-8.51E-05	-0.006169	-2.280970	
0.28173	-0.516056	-2.572297	-0.654203
-8.51E-05	-0.268269	-1.201926	
0.42259	-0.516056	-2.572297	-0.654203
-8.51E-05	-0.542698	-1.358495	
0.56346	-0.516056	-2.572297	-0.654203
-8.51E-05	-0.817128	-1.907434	

ELEM 270 ========== LENGTH = 2.977332

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.43663	-0.401330	0.070325	0.617142
6.37E-05	0.675200	1.521035	
0.57747	-0.401330	0.070325	0.617142
6.37E-05	0.416412	1.491545	
0.71832	-0.401330	0.070325	0.617142
6.37E-05	0.157624	1.462056	
0.85916	-0.401330	0.070325	0.617142
6.37E-05	-0.101164	1.432567	
1.00000	-0.401330	0.070325	0.617142
6.37E-05	-0.359952	1.403077	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 540
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.43663	0.661557	-0.454025	-0.770362
-7.13E-05	-0.843172	-2.859105	
0.57747	0.661557	-0.454025	-0.770362
-7.13E-05	-0.520134	-2.668718	
0.71832	0.661557	-0.454025	-0.770362
-7.13E-05	-0.197095	-2.478330	
0.85916	0.661557	-0.454025	-0.770362
-7.13E-05	0.125943	-2.287942	
1.00000	0.661557	-0.454025	-0.770362
-7.13E-05	0.448981	-2.097555	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.43663	-0.155018	0.333970	0.202973
3.37E-06	0.222622	0.712114	
0.57747	-0.155018	0.333970	0.202973
3.37E-06	0.137509	0.572069	
0.71832	-0.155018	0.333970	0.202973
3.37E-06	0.052395	0.432025	
0.85916	-0.155018	0.333970	0.202973
3.37E-06	-0.032718	0.291980	
1.00000	-0.155018	0.333970	0.202973
3.37E-06	-0.117831	0.151936	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.43663	-0.139219	0.064239	-0.063034
5.70E-06	-0.069233	0.814896	
0.57747	-0.139219	0.064239	-0.063034
5.70E-06	-0.042801	0.787959	
0.71832	-0.139219	0.064239	-0.063034
5.70E-06	-0.016369	0.761021	
0.85916	-0.139219	0.064239	-0.063034
5.70E-06	0.010063	0.734084	
1.00000	-0.139219	0.064239	-0.063034
5.70E-06	0.036495	0.707146	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.43663	0.043124	-0.016979	0.014042
-2.03E-06	0.015443	-0.233297	
0.57747	0.043124	-0.016979	0.014042
-2.03E-06	0.009555	-0.226177	
0.71832	0.043124	-0.016979	0.014042
-2.03E-06	0.003667	-0.219058	
0.85916	0.043124	-0.016979	0.014042
-2.03E-06	-0.002222	-0.211938	
1.00000	0.043124	-0.016979	0.014042
-2.03E-06	-0.008110	-0.204818	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.43663	-0.009114	0.002470	-0.000762
5.86E-07	-0.000861	0.044357	
0.57747	-0.009114	0.002470	-0.000762
5.86E-07	-0.000541	0.043321	
0.71832	-0.009114	0.002470	-0.000762
5.86E-07	-0.000222	0.042285	
0.85916	-0.009114	0.002470	-0.000762
5.86E-07	9.75E-05	0.041250	
1.00000	-0.009114	0.002470	-0.000762
5.86E-07	0.000417	0.040214	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.43663	-0.513224	0.387316	0.834157
6.50E-05	0.913265	1.999852	
0.57747	-0.513224	0.387316	0.834157
6.50E-05	0.563476	1.837437	
0.71832	-0.513224	0.387316	0.834157
6.50E-05	0.213686	1.675023	
0.85916	-0.513224	0.387316	0.834157
6.50E-05	-0.136103	1.512609	
1.00000	-0.513224	0.387316	0.834157
6.50E-05	-0.485893	1.350195	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 541
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.43663	0.513224	-0.387316	-0.834157
-6.50E-05	-0.913265	-1.999852	
0.57747	0.513224	-0.387316	-0.834157
-6.50E-05	-0.563476	-1.837437	
0.71832	0.513224	-0.387316	-0.834157
-6.50E-05	-0.213686	-1.675023	
0.85916	0.513224	-0.387316	-0.834157
-6.50E-05	0.136103	-1.512609	
1.00000	0.513224	-0.387316	-0.834157
-6.50E-05	0.485893	-1.350195	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43663	0.661557	0.387316	0.834157
6.50E-05	0.913265	1.999852	
0.57747	0.661557	0.387316	0.834157
6.50E-05	0.563476	1.837437	
0.71832	0.661557	0.387316	0.834157
6.50E-05	0.213686	1.675023	
0.85916	0.661557	0.387316	0.834157
6.50E-05	0.136103	1.512609	
1.00000	0.661557	0.387316	0.834157
6.50E-05	0.485893	1.403077	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43663	-0.513224	-0.454025	-0.834157
-7.13E-05	-0.913265	-2.859105	
0.57747	-0.513224	-0.454025	-0.834157
-7.13E-05	-0.563476	-2.668718	
0.71832	-0.513224	-0.454025	-0.834157
-7.13E-05	-0.213686	-2.478330	
0.85916	-0.513224	-0.454025	-0.834157
-7.13E-05	-0.136103	-2.287942	
1.00000	-0.513224	-0.454025	-0.834157
-7.13E-05	-0.485893	-2.097555	

ELEM 271 ========== LENGTH = 2.977211

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.450786	0.105580	0.610049
-3.90E-05	0.352785	1.404697	
0.14084	-0.450786	0.105580	0.610049
-3.90E-05	0.096989	1.360427	
0.28167	-0.450786	0.105580	0.610049
-3.90E-05	-0.158806	1.316157	
0.42251	-0.450786	0.105580	0.610049
-3.90E-05	-0.414601	1.271887	
0.56335	-0.450786	0.105580	0.610049
-3.90E-05	-0.670397	1.227617	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.726548	-0.525218	-0.764026
6.50E-05	-0.441815	-2.100920	
0.14084	0.726548	-0.525218	-0.764026
6.50E-05	-0.121457	-1.880695	
0.28167	0.726548	-0.525218	-0.764026
6.50E-05	0.198901	-1.660469	
0.42251	0.726548	-0.525218	-0.764026
6.50E-05	0.519259	-1.440244	
0.56335	0.726548	-0.525218	-0.764026
6.50E-05	0.839617	-1.220019	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.176131	0.376688	0.202802
-2.88E-05	0.117291	0.154154	
0.14084	-0.176131	0.376688	0.202802
-2.88E-05	0.032256	-0.003792	
0.28167	-0.176131	0.376688	0.202802
-2.88E-05	-0.052780	-0.161738	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 542
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.42251	-0.176131	0.376688	0.202802
-2.88E-05	-0.137815	0.319684	
0.56335	-0.176131	0.376688	0.202802
-2.88E-05	-0.222850	-0.477630	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.132100	0.055413	-0.061770
3.68E-06	-0.035742	0.706530	
0.14084	-0.132100	0.055413	-0.061770
3.68E-06	-0.009842	0.683295	
0.28167	-0.132100	0.055413	-0.061770
3.68E-06	0.016059	0.660060	
0.42251	-0.132100	0.055413	-0.061770
3.68E-06	0.041959	0.636825	
0.56335	-0.132100	0.055413	-0.061770
3.68E-06	0.067859	0.613591	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.041395	-0.014475	0.013780
-8.82E-07	0.007978	-0.204643	
0.14084	0.041395	-0.014475	0.013780
-8.82E-07	0.002200	-0.198573	
0.28167	0.041395	-0.014475	0.013780
-8.82E-07	-0.003578	-0.192504	
0.42251	0.041395	-0.014475	0.013780
-8.82E-07	-0.009356	-0.186434	
0.56335	0.041395	-0.014475	0.013780
-8.82E-07	-0.015134	-0.180365	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.008927	0.002012	-0.000836
9.38E-08	-0.000497	0.040181	
0.14084	-0.008927	0.002012	-0.000836
9.38E-08	-0.000147	0.039338	
0.28167	-0.008927	0.002012	-0.000836
9.38E-08	0.000204	0.038494	
0.42251	-0.008927	0.002012	-0.000836
9.38E-08	0.000554	0.037650	
0.56335	-0.008927	0.002012	-0.000836
9.38E-08	0.000904	0.036807	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.585521	0.467792	0.826631
-6.88E-05	0.478054	1.354208	
0.14084	-0.585521	0.467792	0.826631
-6.88E-05	0.131445	1.158062	
0.28167	-0.585521	0.467792	0.826631
-6.88E-05	-0.215163	0.961915	
0.42251	-0.585521	0.467792	0.826631
-6.88E-05	-0.561772	0.765769	
0.56335	-0.585521	0.467792	0.826631
-6.88E-05	-0.908381	0.569622	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.585521	-0.467792	-0.826631
6.88E-05	-0.478054	-1.354208	
0.14084	0.585521	-0.467792	-0.826631
6.88E-05	-0.131445	-1.158062	
0.28167	0.585521	-0.467792	-0.826631
6.88E-05	0.215163	-0.961915	
0.42251	0.585521	-0.467792	-0.826631
6.88E-05	0.561772	-0.765769	
0.56335	0.585521	-0.467792	-0.826631
6.88E-05	0.908381	-0.569622	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.726548	0.467792	0.826631
6.88E-05	0.478054	1.404697	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 543
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.14084	0.726548	0.467792	0.826631
6.88E-05	0.131445	1.360427	
0.28167	0.726548	0.467792	0.826631
6.88E-05	0.215163	1.316157	
0.42251	0.726548	0.467792	0.826631
6.88E-05	0.561772	1.271887	
0.56335	0.726548	0.467792	0.826631
6.88E-05	0.908381	1.227617	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.585521	-0.525218	-0.826631
-6.88E-05	-0.478054	-2.100920	
0.14084	-0.585521	-0.525218	-0.826631
-6.88E-05	-0.131445	-1.880695	
0.28167	-0.585521	-0.525218	-0.826631
-6.88E-05	-0.215163	-1.660469	
0.42251	-0.585521	-0.525218	-0.826631
-6.88E-05	-0.561772	-1.440244	
0.56335	-0.585521	-0.525218	-0.826631
-6.88E-05	-0.908381	-1.220019	

ELEM 272 ========== LENGTH = 2.977533

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.43660	-0.425451	-0.086950	0.592113
6.30E-05	0.659077	0.606343	
0.57745	-0.425451	-0.086950	0.592113
6.30E-05	0.410755	0.642809	
0.71830	-0.425451	-0.086950	0.592113
6.30E-05	0.162432	0.679274	
0.85915	-0.425451	-0.086950	0.592113
6.30E-05	-0.085890	0.715740	
1.00000	-0.425451	-0.086950	0.592113
6.30E-05	-0.334213	0.752205	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.43660	0.718350	0.060889	-0.730889
-7.13E-05	-0.813764	-0.971107	
0.57745	0.718350	0.060889	-0.730889
-7.13E-05	-0.507242	-0.996643	
0.71830	0.718350	0.060889	-0.730889
-7.13E-05	-0.200719	-1.022179	
0.85915	0.718350	0.060889	-0.730889
-7.13E-05	0.105804	-1.047715	
1.00000	0.718350	0.060889	-0.730889
-7.13E-05	0.412326	-1.073251	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.43660	-0.151353	0.071162	0.177897
5.50E-06	0.198621	0.111283	
0.57745	-0.151353	0.071162	0.177897
5.50E-06	0.124014	0.081439	
0.71830	-0.151353	0.071162	0.177897
5.50E-06	0.049407	0.051595	
0.85915	-0.151353	0.071162	0.177897
5.50E-06	-0.025200	0.021751	
1.00000	-0.151353	0.071162	0.177897
5.50E-06	-0.099807	-0.008093	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.43660	-0.184962	-0.058799	-0.049313
3.76E-06	-0.055378	0.330108	
0.57745	-0.184962	-0.058799	-0.049313
3.76E-06	-0.034697	0.354768	
0.71830	-0.184962	-0.058799	-0.049313
3.76E-06	-0.014016	0.379427	
0.85915	-0.184962	-0.058799	-0.049313
3.76E-06	0.006665	0.404086	
1.00000	-0.184962	-0.058799	-0.049313
3.76E-06	0.027346	0.428746	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 544
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.43660	0.054151	0.016952	0.010311
-1.48E-06	0.011618	-0.094757	
0.57745	0.054151	0.016952	0.010311
-1.48E-06	0.007293	-0.101867	
0.71830	0.054151	0.016952	0.010311
-1.48E-06	0.002969	-0.108976	
0.85915	0.054151	0.016952	0.010311
-1.48E-06	-0.001355	-0.116085	
1.00000	0.054151	0.016952	0.010311
-1.48E-06	-0.005679	-0.123194	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.43660	-0.010735	-0.003253	-0.000119
4.79E-07	-0.000174	0.018130	
0.57745	-0.010735	-0.003253	-0.000119
4.79E-07	-0.000123	0.019494	
0.71830	-0.010735	-0.003253	-0.000119
4.79E-07	-7.35E-05	0.020858	
0.85915	-0.010735	-0.003253	-0.000119
4.79E-07	-2.34E-05	0.022223	
1.00000	-0.010735	-0.003253	-0.000119
4.79E-07	2.66E-05	0.023587	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.43660	-0.522654	0.001163	0.780321
6.70E-05	0.869316	0.622869	
0.57745	-0.522654	0.001163	0.780321
6.70E-05	0.542062	0.622382	
0.71830	-0.522654	0.001163	0.780321
6.70E-05	0.214809	0.621894	
0.85915	-0.522654	0.001163	0.780321
6.70E-05	-0.112445	0.621406	
1.00000	-0.522654	0.001163	0.780321
6.70E-05	-0.439699	0.620918	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.43660	0.522654	-0.001163	-0.780321
-6.70E-05	-0.869316	-0.622869	
0.57745	0.522654	-0.001163	-0.780321
-6.70E-05	-0.542062	-0.622382	
0.71830	0.522654	-0.001163	-0.780321
-6.70E-05	-0.214809	-0.621894	
0.85915	0.522654	-0.001163	-0.780321
-6.70E-05	0.112445	-0.621406	
1.00000	0.522654	-0.001163	-0.780321
-6.70E-05	0.439699	-0.620918	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43660	0.718350	0.071162	0.780321
6.70E-05	0.869316	0.622869	
0.57745	0.718350	0.071162	0.780321
6.70E-05	0.542062	0.642809	
0.71830	0.718350	0.071162	0.780321
6.70E-05	0.214809	0.679274	
0.85915	0.718350	0.071162	0.780321
6.70E-05	0.112445	0.715740	
1.00000	0.718350	0.071162	0.780321
6.70E-05	0.439699	0.752205	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43660	-0.522654	-0.086950	-0.780321
-7.13E-05	-0.869316	-0.971107	
0.57745	-0.522654	-0.086950	-0.780321
-7.13E-05	-0.542062	-0.996643	
0.71830	-0.522654	-0.086950	-0.780321
-7.13E-05	-0.214809	-1.022179	
0.85915	-0.522654	-0.086950	-0.780321
-7.13E-05	-0.112445	-1.047715	
1.00000	-0.522654	-0.086950	-0.780321
-7.13E-05	-0.439699	-1.073251	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 545
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 273 ========== LENGTH = 2.976426

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.424893	-0.100680	0.579086
-3.35E-05	0.322682	0.754945	
0.14081	-0.424893	-0.100680	0.579086
-3.35E-05	0.079983	0.797141	
0.28162	-0.424893	-0.100680	0.579086
-3.35E-05	-0.162715	0.839336	

```
 0.42243   -0.424893   -0.100680    0.579086
-3.35E-05   -0.405414    0.881532
 0.56323   -0.424893   -0.100680    0.579086
-3.35E-05   -0.648113    0.923728

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.720215    0.089674   -0.713604
 5.28E-05   -0.397251   -1.078991
 0.14081    0.720215    0.089674   -0.713604
 5.28E-05   -0.098175   -1.116574
 0.28162    0.720215    0.089674   -0.713604
 5.28E-05    0.200901   -1.154157
 0.42243    0.720215    0.089674   -0.713604
 5.28E-05    0.499977   -1.191740
 0.56323    0.720215    0.089674   -0.713604
 5.28E-05    0.799053   -1.229323

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.155295    0.052813    0.175812
-2.35E-05    0.097912   -0.004216
 0.14081   -0.155295    0.052813    0.175812
-2.35E-05    0.024228   -0.026350
 0.28162   -0.155295    0.052813    0.175812
-2.35E-05   -0.049456   -0.048485
 0.42243   -0.155295    0.052813    0.175812
-2.35E-05   -0.123140   -0.070619
 0.56323   -0.155295    0.052813    0.175812
-2.35E-05   -0.196824   -0.092753

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.182993   -0.054510   -0.052057
 5.45E-06   -0.029424    0.427605
 0.14081   -0.182993   -0.054510   -0.052057
 5.45E-06   -0.007607    0.450450
 0.28162   -0.182993   -0.054510   -0.052057
 5.45E-06    0.014211    0.473296
 0.42243   -0.182993   -0.054510   -0.052057
 5.45E-06    0.036028    0.496141
 0.56323   -0.182993   -0.054510   -0.052057
 5.45E-06    0.057846    0.518987

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.053589    0.015728    0.011184
-1.38E-06    0.006351   -0.122869
 0.14081    0.053589    0.015728    0.011184
-1.38E-06    0.001664   -0.129461
 0.28162    0.053589    0.015728    0.011184
-1.38E-06   -0.003023   -0.136053
 0.42243    0.053589    0.015728    0.011184
-1.38E-06   -0.007710   -0.142644
 0.56323    0.053589    0.015728    0.011184
-1.38E-06   -0.012398   -0.149236

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.010623   -0.003025   -0.000421
 1.84E-07   -0.000270    0.023526
 0.14081   -0.010623   -0.003025   -0.000421
 1.84E-07    8.26E-05    0.024794
 0.28162   -0.010623   -0.003025   -0.000421
 1.84E-07    8.26E-05    0.026062
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<           UNEQUAL          SETTLEMENT          >
                                      546

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
 0.42243   -0.010623   -0.003025   -0.000421
 1.84E-07    0.000259    0.027330
 0.56323   -0.010623   -0.003025   -0.000421
 1.84E-07    0.000436    0.028598

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.526599   -0.032139    0.766082
-5.85E-05    0.426945    0.627860
 0.14081   -0.526599   -0.032139    0.766082
-5.85E-05    0.105875    0.641330
 0.28162   -0.526599   -0.032139    0.766082
-5.85E-05   -0.215194    0.654799
 0.42243   -0.526599   -0.032139    0.766082
-5.85E-05   -0.536264    0.668269
 0.56323   -0.526599   -0.032139    0.766082
-5.85E-05   -0.857334    0.681739

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.526599    0.032139   -0.766082
 5.85E-05   -0.426945   -0.627860
 0.14081    0.526599    0.032139   -0.766082
 5.85E-05   -0.105875   -0.641330
 0.28162    0.526599    0.032139   -0.766082
 5.85E-05    0.215194   -0.654799
 0.42243    0.526599    0.032139   -0.766082
 5.85E-05    0.536264   -0.668269
 0.56323    0.526599    0.032139   -0.766082
 5.85E-05    0.857334   -0.681739

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.720215    0.089674    0.766082
 5.85E-05    0.426945    0.754945
 0.14081    0.720215    0.089674    0.766082
 5.85E-05    0.105875    0.797141
 0.28162    0.720215    0.089674    0.766082
 5.85E-05    0.215194    0.839336
 0.42243    0.720215    0.089674    0.766082
 5.85E-05    0.536264    0.881532
 0.56323    0.720215    0.089674    0.766082
 5.85E-05    0.857334    0.923728

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.526599   -0.100680   -0.766082
-5.85E-05   -0.426945   -1.078991
 0.14081   -0.526599   -0.100680   -0.766082
-5.85E-05   -0.105875   -1.116574
 0.28162   -0.526599   -0.100680   -0.766082
-5.85E-05   -0.215194   -1.154157
 0.42243   -0.526599   -0.100680   -0.766082
-5.85E-05   -0.536264   -1.191740
 0.56323   -0.526599   -0.100680   -0.766082
-5.85E-05   -0.857334   -1.229323

ELEM      274 ================== LENGTH
=     2.977811

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43656   -0.107844   -0.009143    0.574591
 6.06E-05    0.638889    0.332674
 0.57742   -0.107844   -0.009143    0.574591
 6.06E-05    0.397875    0.336509
 0.71828   -0.107844   -0.009143    0.574591
 6.06E-05    0.156861    0.340344
 0.85914   -0.107844   -0.009143    0.574591
 6.06E-05   -0.084153    0.344179
 1.00000   -0.107844   -0.009143    0.574591
 6.06E-05   -0.325167    0.348014
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<           UNEQUAL          SETTLEMENT          >
                                      547

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43656    0.178686    0.016016   -0.689918
-6.86E-05   -0.767393   -0.420082
 0.57742    0.178686    0.016016   -0.689918
-6.86E-05   -0.478005   -0.426800
 0.71828    0.178686    0.016016   -0.689918
-6.86E-05   -0.188617   -0.433518
 0.85914    0.178686    0.016016   -0.689918
-6.86E-05    0.100771   -0.440236
 1.00000    0.178686    0.016016   -0.689918
-6.86E-05    0.390159   -0.446953

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43656   -0.027785    0.028188    0.145168
 6.17E-06    0.162046   -0.050967
 0.57742   -0.027785    0.028188    0.145168
 6.17E-06    0.101154   -0.062791
 0.71828   -0.027785    0.028188    0.145168
 6.17E-06    0.040263   -0.074614
 0.85914   -0.027785    0.028188    0.145168
 6.17E-06   -0.020628   -0.086438
 1.00000   -0.027785    0.028188    0.145168
 6.17E-06   -0.081519   -0.098261

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43656   -0.056067   -0.045344   -0.037333
 2.60E-06   -0.041960    0.180440
 0.57742   -0.056067   -0.045344   -0.037333
 2.60E-06   -0.026301    0.199460
 0.71828   -0.056067   -0.045344   -0.037333
 2.60E-06   -0.010641    0.218480
 0.85914   -0.056067   -0.045344   -0.037333
 2.60E-06    0.005018    0.237500
 1.00000   -0.056067   -0.045344   -0.037333
 2.60E-06    0.020678    0.256520

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43656    0.016010    0.011962    0.006992
-1.12E-06    0.007905   -0.052211
 0.57742    0.016010    0.011962    0.006992
-1.12E-06    0.004972   -0.057228
 0.71828    0.016010    0.011962    0.006992
-1.12E-06    0.002039   -0.062246
 0.85914    0.016010    0.011962    0.006992
-1.12E-06   -0.000894   -0.067263
 1.00000    0.016010    0.011962    0.006992
-1.12E-06   -0.003827   -0.072280

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43656   -0.003000   -0.001678    0.000499
 4.03E-07    0.000513    0.010146
 0.57742   -0.003000   -0.001678    0.000499
 4.03E-07    0.000304    0.010850
 0.71828   -0.003000   -0.001678    0.000499
 4.03E-07    9.45E-05    0.011553
 0.85914   -0.003000   -0.001678    0.000499
 4.03E-07   -0.000115    0.012257
 1.00000   -0.003000   -0.001678    0.000499
 4.03E-07   -0.000324    0.012961

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43656   -0.119619    0.031007    0.726752
 6.56E-05    0.808840    0.229496
 0.57742   -0.119619    0.031007    0.726752
 6.56E-05    0.504002    0.216490
 0.71828   -0.119619    0.031007    0.726752
 6.56E-05    0.199164    0.203485
 0.85914   -0.119619    0.031007    0.726752
 6.56E-05   -0.105675    0.190479
 1.00000   -0.119619    0.031007    0.726752
 6.56E-05   -0.410513    0.177473
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<           UNEQUAL          SETTLEMENT          >
                                      548

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43656    0.119619   -0.031007   -0.726752
-6.56E-05   -0.808840   -0.229496
 0.57742    0.119619   -0.031007   -0.726752
-6.56E-05   -0.504002   -0.216490
 0.71828    0.119619   -0.031007   -0.726752
-6.56E-05   -0.199164   -0.203485
 0.85914    0.119619   -0.031007   -0.726752
-6.56E-05    0.105675   -0.190479
 1.00000    0.119619   -0.031007   -0.726752
-6.56E-05    0.410513   -0.177473

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T         M2         M3
 0.43656    0.178686    0.031007    0.726752
 6.56E-05    0.808840    0.332674
 0.57742    0.178686    0.031007    0.726752
 6.56E-05    0.504002    0.336509
 0.71828    0.178686    0.031007    0.726752
 6.56E-05    0.199164    0.340344
 0.85914    0.178686    0.031007    0.726752
 6.56E-05    0.105675    0.344179
 1.00000    0.178686    0.031007    0.726752
 6.56E-05    0.410513    0.348014

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T         M2         M3
 0.43656   -0.119619   -0.045344   -0.726752
-6.86E-05   -0.808840   -0.420082
 0.57742   -0.119619   -0.045344   -0.726752
-6.86E-05   -0.504002   -0.426800
 0.71828   -0.119619   -0.045344   -0.726752
-6.86E-05   -0.199164   -0.433518
 0.85914   -0.119619   -0.045344   -0.726752
-6.86E-05   -0.105675   -0.440236
 1.00000   -0.119619   -0.045344   -0.726752
-6.86E-05   -0.410513   -0.446953

ELEM      275 ================== LENGTH
=     2.977811

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.113482   -0.010588    0.560798
-2.79E-05    0.313510    0.352279
 0.14086   -0.113482   -0.010588    0.560798
-2.79E-05    0.078282    0.356720
 0.28172   -0.113482   -0.010588    0.560798
-2.79E-05   -0.156946    0.361162
 0.42258   -0.113482   -0.010588    0.560798
-2.79E-05   -0.392174    0.365603
 0.56344   -0.113482   -0.010588    0.560798
-2.79E-05   -0.627402    0.370044

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.191180    0.019006   -0.671974
 4.09E-05   -0.375242   -0.455919
 0.14086    0.191180    0.019006   -0.671974
 4.09E-05   -0.093381   -0.463892
 0.28172    0.191180    0.019006   -0.671974
 4.09E-05    0.188480   -0.471864
 0.42258    0.191180    0.019006   -0.671974
 4.09E-05    0.470342   -0.479836
 0.56344    0.191180    0.019006   -0.671974
 4.09E-05    0.752203   -0.487809

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.036974    0.026143    0.143249
-1.65E-05    0.079943   -0.092173
 0.14086   -0.036974    0.026143    0.143249
-1.65E-05    0.019857   -0.103138
 0.28172   -0.036974    0.026143    0.143249
-1.65E-05   -0.040229   -0.114104
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<           UNEQUAL          SETTLEMENT          >
                                      549

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
 0.42258   -0.036974    0.026143    0.143249
-1.65E-05   -0.100315   -0.125069
 0.56344   -0.036974    0.026143    0.143249
-1.65E-05   -0.160401   -0.136035

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.053056   -0.044695   -0.040123
 4.41E-06   -0.022777    0.254714
 0.14086   -0.053056   -0.044695   -0.040123
 4.41E-06   -0.005947    0.273462
 0.28172   -0.053056   -0.044695   -0.040123
 4.41E-06    0.010883    0.292209
 0.42258   -0.053056   -0.044695   -0.040123
 4.41E-06    0.027713    0.310957
 0.56344   -0.053056   -0.044695   -0.040123
 4.41E-06    0.044543    0.329704

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.015180    0.011781    0.007879
-1.09E-06    0.004504   -0.071766
 0.14086    0.015180    0.011781    0.007879
-1.09E-06    0.001199   -0.076707
 0.28172    0.015180    0.011781    0.007879
-1.09E-06   -0.002106   -0.081649
 0.42258    0.015180    0.011781    0.007879
-1.09E-06   -0.005410   -0.086591
 0.56344    0.015180    0.011781    0.007879
-1.09E-06   -0.008715   -0.091532

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.002848   -0.001646    0.000172
 1.27E-07    6.15E-05    0.012865
 0.14086   -0.002848   -0.001646    0.000172
 1.27E-07   -1.07E-05    0.013556
 0.28172   -0.002848   -0.001646    0.000172
 1.27E-07   -8.30E-05    0.014246
 0.42258   -0.002848   -0.001646    0.000172
 1.27E-07   -0.000155    0.014937
 0.56344   -0.002848   -0.001646    0.000172
 1.27E-07   -0.000227    0.015627

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.135276    0.027335    0.711925
-4.55E-05    0.397957    0.188340
 0.14086   -0.135276    0.027335    0.711925
-4.55E-05    0.099339    0.176875
 0.28172   -0.135276    0.027335    0.711925
-4.55E-05   -0.199280    0.165409
 0.42258   -0.135276    0.027335    0.711925
-4.55E-05   -0.497899    0.153943
 0.56344   -0.135276    0.027335    0.711925
-4.55E-05   -0.796518    0.142477

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.135276   -0.027335   -0.711925
 4.55E-05   -0.397957   -0.188340
 0.14086    0.135276   -0.027335   -0.711925
 4.55E-05   -0.099339   -0.176875
 0.28172    0.135276   -0.027335   -0.711925
 4.55E-05    0.199280   -0.165409
 0.42258    0.135276   -0.027335   -0.711925
 4.55E-05    0.497899   -0.153943
 0.56344    0.135276   -0.027335   -0.711925
 4.55E-05    0.796518   -0.142477

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.191180    0.027335    0.711925
 4.55E-05    0.397957    0.352279
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<           UNEQUAL          SETTLEMENT          >
                                      550

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
 0.14086    0.191180    0.027335    0.711925
 4.55E-05    0.099339    0.356720
 0.28172    0.191180    0.027335    0.711925
 4.55E-05    0.199280    0.361162
 0.42258    0.191180    0.027335    0.711925
 4.55E-05    0.497899    0.365603
 0.56344    0.191180    0.027335    0.711925
 4.55E-05    0.796518    0.370044

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.135276   -0.044695   -0.711925
-4.55E-05   -0.397957   -0.455919
 0.14086   -0.135276   -0.044695   -0.711925
-4.55E-05   -0.099339   -0.463892
 0.28172   -0.135276   -0.044695   -0.711925
-4.55E-05   -0.199280   -0.471864
 0.42258   -0.135276   -0.044695   -0.711925
-4.55E-05   -0.497899   -0.479836
 0.56344   -0.135276   -0.044695   -0.711925
-4.55E-05   -0.796518   -0.487809

ELEM      276 ================== LENGTH
=     2.977174

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43666    0.091297    0.112648    0.541072
 5.89E-05    0.601781    0.250619
 0.57749    0.091297    0.112648    0.541072
 5.89E-05    0.374913    0.203387
 0.71833    0.091297    0.112648    0.541072
 5.89E-05    0.148045    0.156154
 0.85916    0.091297    0.112648    0.541072
 5.89E-05   -0.078823    0.108922
 1.00000    0.091297    0.112648    0.541072
 5.89E-05   -0.305691    0.061689

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43666   -0.166875   -0.196500   -0.617822
-6.71E-05   -0.687550   -0.314884
 0.57749   -0.166875   -0.196500   -0.617822
-6.71E-05   -0.428501   -0.232493
 0.71833   -0.166875   -0.196500   -0.617822
-6.71E-05   -0.169453   -0.150102
 0.85916   -0.166875   -0.196500   -0.617822
-6.71E-05    0.089596   -0.067711
 1.00000   -0.166875   -0.196500   -0.617822
-6.71E-05    0.348645    0.014680

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43666    0.046024    0.106316    0.095540
 7.57E-06    0.106931   -0.021460
 0.57749    0.046024    0.106316    0.095540
 7.57E-06    0.066871   -0.066038
 0.71833    0.046024    0.106316    0.095540
 7.57E-06    0.026812   -0.110616
 0.85916    0.046024    0.106316    0.095540
 7.57E-06   -0.013247   -0.155194
 1.00000    0.046024    0.106316    0.095540
 7.57E-06   -0.053307   -0.199771

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43666    0.038458   -0.028530   -0.023097
 9.40E-07   -0.026007    0.112219
 0.57749    0.038458   -0.028530   -0.023097
 9.40E-07   -0.016322    0.124182
 0.71833    0.038458   -0.028530   -0.023097
 9.40E-07   -0.006638    0.136144
 0.85916    0.038458   -0.028530   -0.023097
 9.40E-07    0.003047    0.148107
 1.00000    0.038458   -0.028530   -0.023097
 9.40E-07    0.012731    0.160069
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<           UNEQUAL          SETTLEMENT          >
                                      551

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43666   -0.011218    0.005900    0.003096
-6.18E-07    0.003538   -0.033301
 0.57749   -0.011218    0.005900    0.003096
-6.18E-07    0.002240   -0.035775
 0.71833   -0.011218    0.005900    0.003096
-6.18E-07    0.000942   -0.038248
 0.85916   -0.011218    0.005900    0.003096
-6.18E-07   -0.000356   -0.040722
 1.00000   -0.011218    0.005900    0.003096
-6.18E-07   -0.001654   -0.043196

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43666    0.002315    0.000166    0.001211
 2.97E-07    0.001307    0.006807
 0.57749    0.002315    0.000166    0.001211
 2.97E-07    0.000799    0.006738
 0.71833    0.002315    0.000166    0.001211
 2.97E-07    0.000291    0.006668
 0.85916    0.002315    0.000166    0.001211
 2.97E-07   -0.000216    0.006599
 1.00000    0.002315    0.000166    0.001211
 2.97E-07   -0.000724    0.006529

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43666    0.126103    0.224864    0.639708
 6.59E-05    0.712250    0.195858
 0.57749    0.126103    0.224864    0.639708
 6.59E-05    0.444024    0.101574
 0.71833    0.126103    0.224864    0.639708
 6.59E-05    0.175799    0.007290
 0.85916    0.126103    0.224864    0.639708
 6.59E-05   -0.092426   -0.086994
 1.00000    0.126103    0.224864    0.639708
 6.59E-05   -0.360652   -0.181279

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43666   -0.126103   -0.224864   -0.639708
-6.59E-05   -0.712250   -0.195858
 0.57749   -0.126103   -0.224864   -0.639708
-6.59E-05   -0.444024   -0.101574
 0.71833   -0.126103   -0.224864   -0.639708
-6.59E-05   -0.175799   -0.007290
 0.85916   -0.126103   -0.224864   -0.639708
-6.59E-05    0.092426   -0.086994
 1.00000   -0.126103   -0.224864   -0.639708
-6.59E-05    0.360652    0.181279

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T         M2         M3
 0.43666    0.126103    0.224864    0.639708
 6.59E-05    0.712250    0.250619
 0.57749    0.126103    0.224864    0.639708
 6.59E-05    0.444024    0.203387
 0.71833    0.126103    0.224864    0.639708
 6.59E-05    0.175799    0.156154
 0.85916    0.126103    0.224864    0.639708
 6.59E-05    0.092426    0.148107
 1.00000    0.126103    0.224864    0.639708
 6.59E-05    0.360652    0.181279

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T         M2         M3
 0.43666   -0.166875   -0.224864   -0.639708
-6.71E-05   -0.712250   -0.314884
 0.57749   -0.166875   -0.224864   -0.639708
-6.71E-05   -0.444024   -0.232493
 0.71833   -0.166875   -0.224864   -0.639708
-6.71E-05   -0.175799   -0.150102
 0.85916   -0.166875   -0.224864   -0.639708
-6.71E-05   -0.092426   -0.155194
 1.00000   -0.166875   -0.224864   -0.639708
-6.71E-05   -0.360652   -0.199771
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<           UNEQUAL          SETTLEMENT          >
                                      552

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      277 ================== LENGTH
```

```
=     2.977280

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.082593    0.112233    0.531081
-2.30E-05   0.296985    0.067232
 0.14084    0.082593    0.112233    0.531081
-2.30E-05   0.074292    0.020170
 0.28168    0.082593    0.112233    0.531081
-2.30E-05   -0.148401   -0.026892
 0.42252    0.082593    0.112233    0.531081
-2.30E-05   -0.371093   -0.073953
 0.56336    0.082593    0.112233    0.531081
-2.30E-05   -0.593786   -0.121015

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.148193   -0.195807   -0.606522
 3.02E-05   -0.338883   0.003003
 0.14084    -0.148193   -0.195807   -0.606522
 3.02E-05   -0.084557   0.085109
 0.28168    -0.148193   -0.195807   -0.606522
 3.02E-05   0.169770    0.167215
 0.42252    -0.148193   -0.195807   -0.606522
 3.02E-05   0.424097    0.249321
 0.56336    -0.148193   -0.195807   -0.606522
 3.02E-05   0.678424    0.331427

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.033098    0.106131    0.095507
-9.22E-06   0.053239    -0.191818
 0.14084    0.033098    0.106131    0.095507
-9.22E-06   0.013191    -0.236321
 0.28168    0.033098    0.106131    0.095507
-9.22E-06   -0.026857   -0.280824
 0.42252    0.033098    0.106131    0.095507
-9.22E-06   -0.066905   -0.325327
 0.56336    0.033098    0.106131    0.095507
-9.22E-06   -0.106953   -0.369830

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.042258    -0.028652   -0.024605
 2.53E-06   -0.013891   0.157701
 0.14084    0.042258    -0.028652   -0.024605
 2.53E-06   -0.003573   0.169715
 0.28168    0.042258    -0.028652   -0.024605
 2.53E-06   0.006744    0.181730
 0.42252    0.042258    -0.028652   -0.024605
 2.53E-06   0.017061    0.193744
 0.56336    0.042258    -0.028652   -0.024605
 2.53E-06   0.027379    0.205759

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.012259   0.005940    0.003611
-5.49E-07   0.002060    -0.042521
 0.14084    -0.012259   0.005940    0.003611
-5.49E-07   0.000546    -0.045012
 0.28168    -0.012259   0.005940    0.003611
-5.49E-07   -0.000969   -0.047503
 0.42252    -0.012259   0.005940    0.003611
-5.49E-07   -0.002483   0.049994
 0.56336    -0.012259   0.005940    0.003611
-5.49E-07   -0.003997   -0.052484

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.002504    0.000155    0.000928
2.05E-08    0.000490    0.006404
 0.14084    0.002504    0.000155    0.000928
2.05E-08    0.000101    0.006339
 0.28168    0.002504    0.000155    0.000928
2.05E-08    -0.000288   0.006274
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                553

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.42252    0.002504    0.000155    0.000928
2.05E-08    -0.000677   0.006209
 0.56336    0.002504    0.000155    0.000928
2.05E-08    -0.001066   0.006144

 LOAD   -2N+1- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.103432    0.224304    0.630199
-3.27E-05   0.352284    -0.167108
 0.14084    0.103432    0.224304    0.630199
-3.27E-05   0.088029    -0.261163
 0.28168    0.103432    0.224304    0.630199
-3.27E-05   -0.176226   -0.355218
 0.42252    0.103432    0.224304    0.630199
-3.27E-05   -0.440481   -0.449274
 0.56336    0.103432    0.224304    0.630199
-3.27E-05   -0.704736   -0.543329

 LOAD   -2N+2- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.103432   -0.224304   -0.630199
 3.27E-05   -0.352284   0.167108
 0.14084    -0.103432   -0.224304   -0.630199
 3.27E-05   -0.088029   0.261163
 0.28168    -0.103432   -0.224304   -0.630199
 3.27E-05   0.176226    0.355218
 0.42252    -0.103432   -0.224304   -0.630199
 3.27E-05   0.440481    0.449274
 0.56336    -0.103432   -0.224304   -0.630199
 3.27E-05   0.704736    0.543329

 COMB  SETTLE ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.103432    0.224304    0.630199
3.27E-05    0.352284    0.167108
 0.14084    0.103432    0.224304    0.630199
3.27E-05    0.088029    0.261163
 0.28168    0.103432    0.224304    0.630199
3.27E-05    0.176226    0.355218
 0.42252    0.103432    0.224304    0.630199
3.27E-05    0.440481    0.449274
 0.56336    0.103432    0.224304    0.630199
3.27E-05    0.704736    0.543329

 COMB  SETTLE ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.148193   -0.224304   -0.630199
-3.27E-05   -0.352284   -0.191818
 0.14084    -0.148193   -0.224304   -0.630199
-3.27E-05   -0.088029   -0.261163
 0.28168    -0.148193   -0.224304   -0.630199
-3.27E-05   -0.176226   -0.355218
 0.42252    -0.148193   -0.224304   -0.630199
-3.27E-05   -0.440481   -0.449274
 0.56336    -0.148193   -0.224304   -0.630199
-3.27E-05   -0.704736   -0.543329

 ELEM     278 ================== LENGTH
=     2.976714

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    0.109365    0.253428    0.495817
5.67E-05    0.551401    0.253319
 0.57754    0.109365    0.253428    0.495817
5.67E-05    0.343565    0.177088
 0.71836    0.109365    0.253428    0.495817
5.67E-05    0.135729    0.070856
 0.85918    0.109365    0.253428    0.495817
5.67E-05    -0.072107   -0.035375
 1.00000    0.109365    0.253428    0.495817
5.67E-05    -0.279943   -0.141607
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                554

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    -0.193259   -0.472032   -0.521394
-6.40E-05   -0.580304   -0.435582
 0.57754    -0.193259   -0.472032   -0.521394
-6.40E-05   -0.361747   -0.237717
 0.71836    -0.193259   -0.472032   -0.521394
-6.40E-05   -0.143190   -0.039851
 0.85918    -0.193259   -0.472032   -0.521394
-6.40E-05   0.075367    0.158015
 1.00000    -0.193259   -0.472032   -0.521394
-6.40E-05   0.293923    0.355880

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    0.039621    0.241190    0.030407
7.53E-06    0.034453    0.108004
 0.57754    0.039621    0.241190    0.030407
7.53E-06    0.021706    0.060902
 0.71836    0.039621    0.241190    0.030407
7.53E-06    0.008960    -0.094200
 0.85918    0.039621    0.241190    0.030407
7.53E-06    -0.003786   -0.195302
 1.00000    0.039621    0.241190    0.030407
7.53E-06    -0.016532   -0.296403

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    0.057461    -0.028038   -0.005125
-2.20E-07   -0.005899   0.059007
 0.57754    0.057461    -0.028038   -0.005125
-2.20E-07   -0.003751   0.070760
 0.71836    0.057461    -0.028038   -0.005125
-2.20E-07   -0.001603   0.082512
 0.85918    0.057461    -0.028038   -0.005125
-2.20E-07   0.000545    0.094265
 1.00000    0.057461    -0.028038   -0.005125
-2.20E-07   0.002693    0.106018

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    -0.016286   0.003765    -0.001813
-2.44E-07   -0.001953   -0.019990
 0.57754    -0.016286   0.003765    -0.001813
-2.44E-07   -0.001193   -0.021569
 0.71836    -0.016286   0.003765    -0.001813
-2.44E-07   -0.000433   -0.023147
 0.85918    -0.016286   0.003765    -0.001813
-2.44E-07   0.000327    -0.024725
 1.00000    -0.016286   0.003765    -0.001813
-2.44E-07   0.001087    -0.026304

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    0.003099    0.001686    0.002107
2.08E-07    0.002303    0.005243
 0.57754    0.003099    0.001686    0.002107
2.08E-07    0.001419    0.004536
 0.71836    0.003099    0.001686    0.002107
2.08E-07    0.000536    0.003829
 0.85918    0.003099    0.001686    0.002107
2.08E-07    -0.000347   0.003122
 1.00000    0.003099    0.001686    0.002107
2.08E-07    -0.001230   0.002415

 LOAD   -2N+1- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    0.132699    0.498383    0.524412
6.40E-05    0.583901    0.371333
 0.57754    0.132699    0.498383    0.524412
6.40E-05    0.364079    0.162421
 0.71836    0.132699    0.498383    0.524412
6.40E-05    0.144257    -0.046490
 0.85918    0.132699    0.498383    0.524412
6.40E-05    -0.075565   -0.255402
 1.00000    0.132699    0.498383    0.524412
6.40E-05    -0.295387   -0.464314
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                555

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD   -2N+2- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    -0.132699   -0.498383   -0.524412
-6.40E-05   -0.583901   -0.371333
 0.57754    -0.132699   -0.498383   -0.524412
-6.40E-05   -0.364079   -0.162421
 0.71836    -0.132699   -0.498383   -0.524412
-6.40E-05   -0.144257   0.046490
 0.85918    -0.132699   -0.498383   -0.524412
-6.40E-05   0.075565    0.255402
 1.00000    -0.132699   -0.498383   -0.524412
-6.40E-05   0.295387    0.464314

 COMB  SETTLE ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    0.132699    0.498383    0.524412
6.40E-05    0.583901    0.371333
 0.57754    0.132699    0.498383    0.524412
6.40E-05    0.364079    0.177088
 0.71836    0.132699    0.498383    0.524412
6.40E-05    0.144257    0.082512
 0.85918    0.132699    0.498383    0.524412
6.40E-05    0.075565    0.255402
 1.00000    0.132699    0.498383    0.524412
6.40E-05    0.295387    0.464314

 COMB  SETTLE ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43672    -0.193259   -0.498383   -0.524412
-6.40E-05   -0.583901   -0.435582
 0.57754    -0.193259   -0.498383   -0.524412
-6.40E-05   -0.364079   -0.237717
 0.71836    -0.193259   -0.498383   -0.524412
-6.40E-05   -0.144257   -0.094200
 0.85918    -0.193259   -0.498383   -0.524412
-6.40E-05   -0.075565   -0.255402
 1.00000    -0.193259   -0.498383   -0.524412
-6.40E-05   -0.295387   -0.464314

 ELEM     279 ================== LENGTH
=     2.977605

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.097277    0.277027    0.488199
-1.68E-05   0.273279    -0.134129
 0.14085    0.097277    0.277027    0.488199
-1.68E-05   0.068528    -0.250315
 0.28170    0.097277    0.277027    0.488199
-1.68E-05   -0.136224   -0.366501
 0.42256    0.097277    0.277027    0.488199
-1.68E-05   -0.340975   -0.482686
 0.56341    0.097277    0.277027    0.488199
-1.68E-05   -0.545726   -0.598872

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.167050   -0.521960   -0.514848
 1.67E-05   -0.288078   0.340118
 0.14085    -0.167050   -0.521960   -0.514848
 1.67E-05   -0.072150   0.559029
 0.28170    -0.167050   -0.521960   -0.514848
 1.67E-05   0.143778    0.777940
 0.42256    -0.167050   -0.521960   -0.514848
 1.67E-05   0.359706    0.996851
 0.56341    -0.167050   -0.521960   -0.514848
 1.67E-05   0.575634    1.215761

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.021470    0.275521    0.032116
4.92E-07    0.017887    -0.285657
 0.14085    0.021470    0.275521    0.032116
4.92E-07    0.004417    -0.401210
 0.28170    0.021470    0.275521    0.032116
4.92E-07    -0.009052   -0.516764
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                556

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.42256    0.021470    0.275521    0.032116
4.92E-07    -0.022522   -0.632318
 0.56341    0.021470    0.275521    0.032116
4.92E-07    -0.035991   -0.747872

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.062660    -0.038458   -0.005756
-5.31E-07   -0.003228   0.102813
 0.14085    0.062660    -0.038458   -0.005756
-5.31E-07   0.000814    0.118943
 0.28170    0.062660    -0.038458   -0.005756
-5.31E-07   0.001600    0.135072
 0.42256    0.062660    -0.038458   -0.005756
-5.31E-07   0.004014    0.151201
 0.56341    0.062660    -0.038458   -0.005756
-5.31E-07   0.006428    0.167331

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.017717   0.006744    -0.001537
 3.36E-07   -0.000853   -0.025391
 0.14085    -0.017717   0.006744    -0.001537
 3.36E-07   -0.000208   -0.028220
 0.28170    -0.017717   0.006744    -0.001537
 3.36E-07   0.000437    -0.031048
 0.42256    -0.017717   0.006744    -0.001537
 3.36E-07   0.001082    -0.033877
 0.56341    -0.017717   0.006744    -0.001537
 3.36E-07   0.001727    -0.036705

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.003361    0.001126    0.001827
-1.57E-07   0.000993    0.002246
 0.14085    0.003361    0.001126    0.001827
-1.57E-07   0.000227    0.001773
 0.28170    0.003361    0.001126    0.001827
-1.57E-07   -0.000539   0.001301
 0.42256    0.003361    0.001126    0.001827
-1.57E-07   -0.001305   0.000829
 0.56341    0.003361    0.001126    0.001827
-1.57E-07   -0.002071   0.000357

 LOAD   -2N+1- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.101030    0.559293    0.518777
-1.60E-05   0.290313    -0.445177
 0.14085    0.101030    0.559293    0.518777
-1.60E-05   0.072737    -0.679745
 0.28170    0.101030    0.559293    0.518777
-1.60E-05   -0.144839   -0.914313
 0.42256    0.101030    0.559293    0.518777
-1.60E-05   -0.362415   -1.148881
 0.56341    0.101030    0.559293    0.518777
-1.60E-05   -0.579991   -1.383449

 LOAD   -2N+2- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.101030   -0.559293   -0.518777
 1.60E-05   -0.290313   0.445177
 0.14085    -0.101030   -0.559293   -0.518777
 1.60E-05   -0.072737   0.679745
 0.28170    -0.101030   -0.559293   -0.518777
 1.60E-05   0.144839    0.914313
 0.42256    -0.101030   -0.559293   -0.518777
 1.60E-05   0.362415    1.148881
 0.56341    -0.101030   -0.559293   -0.518777
 1.60E-05   0.579991    1.383449

 COMB  SETTLE ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    0.101030    0.559293    0.518777
1.67E-05    0.290313    0.445177
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                557

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P          V2          V3
        T          M2         M3
 0.14085    0.101030    0.559293    0.518777
1.67E-05    0.072737    0.679745
 0.28170    0.101030    0.559293    0.518777
1.67E-05    0.144839    0.914313
 0.42256    0.101030    0.559293    0.518777
1.67E-05    0.362415    1.148881
 0.56341    0.101030    0.559293    0.518777
1.67E-05    0.579991    1.383449

 COMB  SETTLE ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.00000    -0.167050   -0.559293   -0.518777
-1.68E-05   -0.290313   -0.445177
 0.14085    -0.167050   -0.559293   -0.518777
-1.68E-05   -0.072737   -0.679745
 0.28170    -0.167050   -0.559293   -0.518777
-1.68E-05   -0.144839   -0.914313
 0.42256    -0.167050   -0.559293   -0.518777
-1.68E-05   -0.362415   -1.148881
 0.56341    -0.167050   -0.559293   -0.518777
-1.68E-05   -0.579991   -1.383449

 ELEM     280 ================== LENGTH
=     2.978210

 LOAD     -A1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    0.030380    0.492609    0.440178
5.42E-05    0.490128    0.497647
 0.57738    0.030380    0.492609    0.440178
5.42E-05    0.305450    0.290971
 0.71825    0.030380    0.492609    0.440178
5.42E-05    0.120772    0.084296
 0.85913    0.030380    0.492609    0.440178
5.42E-05    -0.063906   -0.122379
 1.00000    0.030380    0.492609    0.440178
5.42E-05    -0.248584   -0.329055

 LOAD     -P1 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    -0.046956   -0.965569   -0.405137
-6.01E-05   -0.451600   -0.923207
 0.57738    -0.046956   -0.965569   -0.405137
-6.01E-05   -0.281624   -0.518100
 0.71825    -0.046956   -0.965569   -0.405137
-6.01E-05   -0.111647   -0.112993
 0.85913    -0.046956   -0.965569   -0.405137
-6.01E-05   0.058329    0.292114
 1.00000    -0.046956   -0.965569   -0.405137
-6.01E-05   0.228305    0.697221

 LOAD     -P2 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    -0.015716   0.525727    -0.046973
 6.89E-06   -0.051667   0.443371
 0.57738    -0.015716   0.525727    -0.046973
 6.89E-06   -0.031960   0.222801
 0.71825    -0.015716   0.525727    -0.046973
 6.89E-06   -0.012252   0.002231
 0.85913    -0.015716   0.525727    -0.046973
 6.89E-06   0.007456    -0.218340
 1.00000    -0.015716   0.525727    -0.046973
 6.89E-06   0.027163    -0.438910

 LOAD     -P3 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    0.042273    -0.066246   0.016448
-1.21E-06   0.018160    -0.020210
 0.57738    0.042273    -0.066246   0.016448
-1.21E-06   0.011260    0.007584
 0.71825    0.042273    -0.066246   0.016448
-1.21E-06   0.004359    0.035377
 0.85913    0.042273    -0.066246   0.016448
-1.21E-06   -0.002542   0.063171
 1.00000    0.042273    -0.066246   0.016448
-1.21E-06   -0.009442   0.090964
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                558

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD     -P4 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    -0.011949   0.011255    -0.007693
1.12E-07    -0.008512   -0.001797
 0.57738    -0.011949   0.011255    -0.007693
1.12E-07    -0.005284   -0.006519
 0.71825    -0.011949   0.011255    -0.007693
1.12E-07    -0.002056   -0.011241
 0.85913    -0.011949   0.011255    -0.007693
1.12E-07    0.001171    -0.015963
 1.00000    -0.011949   0.011255    -0.007693
1.12E-07    0.004399    -0.020685

 LOAD     -P5 ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    0.001969    0.002224    0.003177
1.08E-07    0.003491    0.004196
 0.57738    0.001969    0.002224    0.003177
1.08E-07    0.002158    0.003263
 0.71825    0.001969    0.002224    0.003177
1.08E-07    0.000824    0.002330
 0.85913    0.001969    0.002224    0.003177
1.08E-07    -0.000509   0.001397
 1.00000    0.001969    0.002224    0.003177
1.08E-07    -0.001842   0.000465

 LOAD   -2N+1- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    0.002714    1.029591    0.385512
6.12E-05    0.429949    0.939221
 0.57738    0.002714    1.029591    0.385512
6.12E-05    0.268206    0.507253
 0.71825    0.002714    1.029591    0.385512
6.12E-05    0.106464    0.075285
 0.85913    0.002714    1.029591    0.385512
6.12E-05    -0.055279   -0.356682
 1.00000    0.002714    1.029591    0.385512
6.12E-05    -0.217021   -0.788650

 LOAD   -2N+2- ------------------

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    -0.002714   -1.029591   -0.385512
-6.12E-05   -0.429949   -0.939221
 0.57738    -0.002714   -1.029591   -0.385512
-6.12E-05   -0.268206   -0.507253
 0.71825    -0.002714   -1.029591   -0.385512
-6.12E-05   -0.106464   -0.075285
 0.85913    -0.002714   -1.029591   -0.385512
-6.12E-05   0.055279    0.356682
 1.00000    -0.002714   -1.029591   -0.385512
-6.12E-05   0.217021    0.788650

 COMB  SETTLE ------------------ MAX

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    0.042273    1.029591    0.440178
6.12E-05    0.490128    0.939221
 0.57738    0.042273    1.029591    0.440178
6.12E-05    0.305450    0.507253
 0.71825    0.042273    1.029591    0.440178
6.12E-05    0.120772    0.084296
 0.85913    0.042273    1.029591    0.440178
6.12E-05    0.058329    0.356682
 1.00000    0.042273    1.029591    0.440178
6.12E-05    0.228305    0.788650

 COMB  SETTLE ------------------ MIN

 REL DIST          P          V2          V3
        T          M2         M3
 0.43650    -0.046956   -1.029591   -0.405137
-6.12E-05   -0.451600   -0.939221
 0.57738    -0.046956   -1.029591   -0.405137
-6.12E-05   -0.281624   -0.518100
 0.71825    -0.046956   -1.029591   -0.405137
-6.12E-05   -0.111647   -0.112993
 0.85913    -0.046956   -1.029591   -0.405137
-6.12E-05   -0.063906   -0.356682
 1.00000    -0.046956   -1.029591   -0.405137
```

-6.12E-05 -0.248584 -0.788650
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
559

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 281 ========== LENGTH = 2.977120

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.018547	0.477408	0.436254
-1.15E-05	0.244412	-0.321619	
0.14083	0.018547	0.477408	0.436254
-1.15E-05	0.061499	-0.521786	
0.28167	0.018547	0.477408	0.436254
-1.15E-05	-0.121414	-0.721954	
0.42250	0.018547	0.477408	0.436254
-1.15E-05	-0.304326	-0.922122	
0.56334	0.018547	0.477408	0.436254
-1.15E-05	-0.487239	-1.122290	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.021393	-0.933620	-0.403362
4.67E-06	-0.225886	0.681549	
0.14083	-0.021393	-0.933620	-0.403362
4.67E-06	-0.056764	1.072997	
0.28167	-0.021393	-0.933620	-0.403362
4.67E-06	0.112358	1.464446	
0.42250	-0.021393	-0.933620	-0.403362
4.67E-06	0.281480	1.855894	
0.56334	-0.021393	-0.933620	-0.403362
4.67E-06	0.450602	2.247342	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.033301	0.504164	-0.044350
9.57E-06	-0.024968	-0.428227	
0.14083	-0.033301	0.504164	-0.044350
9.57E-06	-0.006373	-0.639613	
0.28167	-0.033301	0.504164	-0.044350
9.57E-06	0.012222	-0.850998	
0.42250	-0.033301	0.504164	-0.044350
9.57E-06	0.030817	-1.062384	
0.56334	-0.033301	0.504164	-0.044350
9.57E-06	0.049412	-1.273770	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.047231	-0.059978	0.016081
-3.70E-06	0.009075	0.087780	
0.14083	0.047231	-0.059978	0.016081
-3.70E-06	0.002333	0.112927	
0.28167	0.047231	-0.059978	0.016081
-3.70E-06	-0.004409	0.138075	
0.42250	0.047231	-0.059978	0.016081
-3.70E-06	-0.011152	0.163223	
0.56334	0.047231	-0.059978	0.016081
-3.70E-06	-0.017894	0.188370	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.013298	0.009479	-0.007479
1.27E-06	-0.004199	-0.019779	
0.14083	-0.013298	0.009479	-0.007479
1.27E-06	-0.001063	-0.023753	
0.28167	-0.013298	0.009479	-0.007479
1.27E-06	0.002073	-0.027728	
0.42250	-0.013298	0.009479	-0.007479
1.27E-06	0.005209	-0.031702	
0.56334	-0.013298	0.009479	-0.007479
1.27E-06	0.008345	-0.035677	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.002214	0.002547	0.002856
-3.53E-07	0.001565	0.000296	
0.14083	0.002214	0.002547	0.002856
-3.53E-07	0.000368	-0.000772	
0.28167	0.002214	0.002547	0.002856
-3.53E-07	-0.000830	-0.001840	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
560

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42250	0.002214	0.002547	0.002856
-3.53E-07	-0.002027	-0.002908	
0.56334	0.002214	0.002547	0.002856
-3.53E-07	-0.003225	-0.003976	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.028052	0.991051	0.384425
-6.21E-07	0.215245	-0.769624	
0.14083	-0.028052	0.991051	0.384425
-6.21E-07	0.054063	-1.185152	
0.28167	-0.028052	0.991051	0.384425
-6.21E-07	-0.107119	-1.600680	
0.42250	-0.028052	0.991051	0.384425
-6.21E-07	-0.268301	-2.016208	
0.56334	-0.028052	0.991051	0.384425
-6.21E-07	-0.429482	-2.431736	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.028052	-0.991051	-0.384425
6.21E-07	-0.215245	0.769624	
0.14083	0.028052	-0.991051	-0.384425
6.21E-07	-0.054063	1.185152	
0.28167	0.028052	-0.991051	-0.384425
6.21E-07	0.107119	1.600680	
0.42250	0.028052	-0.991051	-0.384425
6.21E-07	0.268301	2.016208	
0.56334	0.028052	-0.991051	-0.384425
6.21E-07	0.429482	2.431736	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.047231	0.991051	0.436254
9.57E-06	0.244412	0.769624	
0.14083	0.047231	0.991051	0.436254
9.57E-06	0.061499	1.185152	
0.28167	0.047231	0.991051	0.436254
9.57E-06	0.112358	1.600680	
0.42250	0.047231	0.991051	0.436254
9.57E-06	0.281480	2.016208	
0.56334	0.047231	0.991051	0.436254
9.57E-06	0.450602	2.431736	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.033301	-0.991051	-0.403362
-1.15E-05	-0.225886	-0.769624	
0.14083	-0.033301	-0.991051	-0.403362
-1.15E-05	-0.056764	-1.185152	
0.28167	-0.033301	-0.991051	-0.403362
-1.15E-05	-0.121414	-1.600680	
0.42250	-0.033301	-0.991051	-0.403362
-1.15E-05	-0.304326	-2.016208	
0.56334	-0.033301	-0.991051	-0.403362
-1.15E-05	-0.487239	-2.431736	

ELEM 282 ========== LENGTH = 2.976802

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.030410	0.750018	0.379976
4.91E-05	0.422503	0.814885	
0.57753	-0.030410	0.750018	0.379976
4.91E-05	0.263217	0.500478	
0.71836	-0.030410	0.750018	0.379976
4.91E-05	0.103931	0.186070	
0.85918	-0.030410	0.750018	0.379976
4.91E-05	-0.055355	-0.128338	
1.00000	-0.030410	0.750018	0.379976
4.91E-05	-0.214641	-0.442746	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
561

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.051235	-1.505479	-0.275903
-5.07E-05	-0.307127	-1.621170	
0.57753	0.051235	-1.505479	-0.275903
-5.07E-05	-0.191468	-0.990073	
0.71836	0.051235	-1.505479	-0.275903
-5.07E-05	-0.075809	-0.358975	
0.85918	0.051235	-1.505479	-0.275903
-5.07E-05	0.039849	0.272122	
1.00000	0.051235	-1.505479	-0.275903
-5.07E-05	0.155508	0.903219	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.034414	0.820187	-0.135411
2.72E-06	-0.150119	0.856674	
0.57753	-0.034414	0.820187	-0.135411
2.72E-06	-0.093355	0.512852	
0.71836	-0.034414	0.820187	-0.135411
2.72E-06	-0.036590	0.169029	
0.85918	-0.034414	0.820187	-0.135411
2.72E-06	0.020174	-0.174793	
1.00000	-0.034414	0.820187	-0.135411
2.72E-06	0.076938	-0.518616	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.019969	-0.079972	0.041423
-1.45E-06	0.045971	-0.059515	
0.57753	0.019969	-0.079972	0.041423
-1.45E-06	0.029607	-0.025991	
0.71836	0.019969	-0.079972	0.041423
-1.45E-06	0.011243	0.007534	
0.85918	0.019969	-0.079972	0.041423
-1.45E-06	-0.006122	0.041058	
1.00000	0.019969	-0.079972	0.041423
-1.45E-06	-0.023486	0.074583	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.007607	0.009252	-0.014527
3.05E-07	-0.016112	0.000245	
0.57753	-0.007607	0.009252	-0.014527
3.05E-07	-0.010022	-0.003633	
0.71836	-0.007607	0.009252	-0.014527
3.05E-07	-0.003932	-0.007511	
0.85918	-0.007607	0.009252	-0.014527
3.05E-07	0.002158	-0.011390	
1.00000	-0.007607	0.009252	-0.014527
3.05E-07	0.008247	-0.015268	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.001228	0.005995	0.004443
1.12E-08	0.004884	0.008880	
0.57753	0.001228	0.005995	0.004443
1.12E-08	0.003021	0.006367	
0.71836	0.001228	0.005995	0.004443
1.12E-08	0.001159	0.003854	
0.85918	0.001228	0.005995	0.004443
1.12E-08	-0.000704	0.001341	
1.00000	0.001228	0.005995	0.004443
1.12E-08	-0.002566	-0.001172	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.072431	1.579456	0.230038
5.22E-05	0.256272	1.671805	
0.57753	-0.072431	1.579456	0.230038
5.22E-05	0.159840	1.009697	
0.71836	-0.072431	1.579456	0.230038
5.22E-05	0.063408	0.347588	
0.85918	-0.072431	1.579456	0.230038
5.22E-05	-0.033024	-0.314521	
1.00000	-0.072431	1.579456	0.230038
5.22E-05	-0.129456	-0.976630	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
562

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.072431	-1.579456	-0.230038
-5.22E-05	0.256272	-1.671805	
0.57753	0.072431	-1.579456	-0.230038
-5.22E-05	-0.159840	-1.009697	
0.71836	0.072431	-1.579456	-0.230038
-5.22E-05	-0.063408	-0.347588	
0.85918	0.072431	-1.579456	-0.230038
-5.22E-05	0.033024	0.314521	
1.00000	0.072431	-1.579456	-0.230038
-5.22E-05	0.129456	0.976630	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.072431	1.579456	0.379976
5.22E-05	0.422503	1.671805	
0.57753	0.072431	1.579456	0.379976
5.22E-05	0.263217	1.009697	
0.71836	0.072431	1.579456	0.379976
5.22E-05	0.103931	0.347588	
0.85918	0.072431	1.579456	0.379976
5.22E-05	0.039849	0.314521	
1.00000	0.072431	1.579456	0.379976
5.22E-05	0.155508	0.976630	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.072431	-1.579456	-0.275903
-5.22E-05	-0.307127	-1.671805	
0.57753	-0.072431	-1.579456	-0.275903
-5.22E-05	-0.191468	-1.009697	
0.71836	-0.072431	-1.579456	-0.275903
-5.22E-05	-0.075809	-0.358975	
0.85918	-0.072431	-1.579456	-0.275903
-5.22E-05	-0.055355	-0.314521	
1.00000	-0.072431	-1.579456	-0.275903
-5.22E-05	-0.214641	-0.976630	

ELEM 283 ========== LENGTH = 2.977796

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.047609	0.800910	0.374079
-6.82E-06	0.209558	-0.433036	
0.14086	-0.047609	0.800910	0.374079
-6.82E-06	0.052651	-0.768917	
0.28172	-0.047609	0.800910	0.374079
-6.82E-06	-0.104256	-1.104918	
0.42258	-0.047609	0.800910	0.374079
-6.82E-06	-0.261163	-1.440859	
0.56344	-0.047609	0.800910	0.374079
-6.82E-06	-0.418070	-1.776800	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.088367	-1.612815	-0.272256
-6.17E-06	-0.152344	0.882753	
0.14086	0.088367	-1.612815	-0.272256
-6.17E-06	-0.038146	1.559246	
0.28172	0.088367	-1.612815	-0.272256
-6.17E-06	0.076051	2.235740	
0.42258	0.088367	-1.612815	-0.272256
-6.17E-06	0.190249	2.912233	
0.56344	0.088367	-1.612815	-0.272256
-6.17E-06	0.304447	3.588726	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.060041	0.893825	-0.132558
1.85E-05	-0.074476	-0.504670	
0.14086	-0.060041	0.893825	-0.132558
1.85E-05	-0.018875	-0.879584	
0.28172	-0.060041	0.893825	-0.132558
1.85E-05	0.036727	-1.254497	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
563

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42258	-0.060041	0.893825	-0.132558
1.85E-05	0.092328	-1.629411	
0.56344	-0.060041	0.893825	-0.132558
1.85E-05	0.147929	-2.004325	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.027313	-0.102384	0.040938
-7.24E-06	0.023036	0.070431	
0.14086	0.027313	-0.102384	0.040938
-7.24E-06	0.005865	0.113376	
0.28172	0.027313	-0.102384	0.040938
-7.24E-06	-0.011307	0.156321	
0.42258	0.027313	-0.102384	0.040938
-7.24E-06	-0.028478	0.199266	
0.56344	0.027313	-0.102384	0.040938
-7.24E-06	-0.045649	0.242211	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.009629	0.015690	-0.014204
2.33E-06	-0.007969	-0.014087	
0.14086	-0.009629	0.015690	-0.014204
2.33E-06	-0.002011	-0.020668	
0.28172	-0.009629	0.015690	-0.014204
2.33E-06	0.003947	-0.027249	
0.42258	-0.009629	0.015690	-0.014204
2.33E-06	0.009905	-0.033831	
0.56344	-0.009629	0.015690	-0.014204
2.33E-06	0.015863	-0.040412	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.001600	0.004774	0.004002
-5.95E-07	0.000195	-0.001391	
0.14086	0.001600	0.004774	0.004002
-5.95E-07	0.000517	-0.003393	
0.28172	0.001600	0.004774	0.004002
-5.95E-07	-0.001162	-0.005396	
0.42258	0.001600	0.004774	0.004002
-5.95E-07	-0.002840	-0.007398	
0.56344	0.001600	0.004774	0.004002
-5.95E-07	-0.004519	-0.009401	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.117279	1.710425	0.227317
1.40E-05	0.127113	-0.951793	
0.14086	-0.117279	1.710425	0.227317
1.40E-05	0.031765	-1.669229	
0.28172	-0.117279	1.710425	0.227317
1.40E-05	-0.063583	-2.386665	
0.42258	-0.117279	1.710425	0.227317
1.40E-05	-0.158931	-3.104101	
0.56344	-0.117279	1.710425	0.227317
1.40E-05	-0.254279	-3.821537	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.117279	-1.710425	-0.227317
-1.40E-05	-0.127113	0.951793	
0.14086	0.117279	-1.710425	-0.227317
-1.40E-05	-0.031765	1.669229	
0.28172	0.117279	-1.710425	-0.227317
-1.40E-05	0.063583	2.386665	
0.42258	0.117279	-1.710425	-0.227317
-1.40E-05	0.158931	3.104101	
0.56344	0.117279	-1.710425	-0.227317
-1.40E-05	0.254279	3.821537	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.117279	1.710425	0.374079
1.85E-05	0.209558	0.951793	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
564

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14086	0.117279	1.710425	0.374079
1.85E-05	0.052651	1.669229	
0.28172	0.117279	1.710425	0.374079
1.85E-05	0.076051	2.386665	
0.42258	0.117279	1.710425	0.374079
1.85E-05	0.190249	3.104101	
0.56344	0.117279	1.710425	0.374079
1.85E-05	0.304447	3.821537	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.117279	-1.710425	-0.272256
-1.40E-05	-0.152344	-0.951793	
0.14086	-0.117279	-1.710425	-0.272256
-1.40E-05	-0.038146	-1.669229	
0.28172	-0.117279	-1.710425	-0.272256
-1.40E-05	-0.104256	-2.386665	
0.42258	-0.117279	-1.710425	-0.272256
-1.40E-05	-0.261163	-3.104101	
0.56344	-0.117279	-1.710425	-0.272256
-1.40E-05	-0.418070	-3.821537	

ELEM 284 ========== LENGTH = 2.977458

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.013036	1.230664	0.311736
3.93E-05	0.347281	1.519345	
0.57746	0.013036	1.230664	0.311736
3.93E-05	0.216549	1.003249	
0.71831	0.013036	1.230664	0.311736
3.93E-05	0.085818	0.487152	
0.85915	0.013036	1.230664	0.311736
3.93E-05	-0.044913	-0.028944	
1.00000	0.013036	1.230664	0.311736
3.93E-05	-0.175644	-0.545041	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.042057	-2.500210	-0.134864
-3.14E-05	-0.149873	-3.100242	
0.57746	-0.042057	-2.500210	-0.134864
-3.14E-05	-0.033316	-2.351743	
0.71831	-0.042057	-2.500210	-0.134864
-3.14E-05	-0.036759	-1.003244	
0.85915	-0.042057	-2.500210	-0.134864
-3.14E-05	0.019799	0.045255	
1.00000	-0.042057	-2.500210	-0.134864
-3.14E-05	0.076356	1.093754	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.033335	1.385354	-0.228690
-7.22E-06	-0.255230	1.712037	
0.57746	0.033335	1.385354	-0.228690
-7.22E-06	-0.159325	1.131069	
0.71831	0.033335	1.385354	-0.228690
-7.22E-06	-0.063420	0.550101	
0.85915	0.033335	1.385354	-0.228690
-7.22E-06	0.032484	-0.030867	
1.00000	0.033335	1.385354	-0.228690
-7.22E-06	0.128389	-0.611835	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.000913	-0.143740	0.067737
-9.27E-07	0.075644	-0.159285	
0.57746	0.000913	-0.143740	0.067737
-9.27E-07	0.047238	-0.099005	
0.71831	0.000913	-0.143740	0.067737
-9.27E-07	0.018831	-0.038726	
0.85915	0.000913	-0.143740	0.067737
-9.27E-07	-0.009576	0.021553	
1.00000	0.000913	-0.143740	0.067737
-9.27E-07	-0.037982	0.081832	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
565

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.007639	0.018881	-0.021674
3.92E-07	-0.024176	0.013393	
0.57746	-0.007639	0.018881	-0.021674
3.92E-07	-0.010086	0.007905	
0.71831	-0.007639	0.018881	-0.021674
3.92E-07	-0.005997	-0.002443	
0.85915	-0.007639	0.018881	-0.021674
3.92E-07	0.003093	-0.010361	
1.00000	-0.007639	0.018881	-0.021674
3.92E-07	0.012182	-0.018279	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.002412	0.009050	0.005756
-1.23E-07	0.006354	0.014750	
0.57746	0.002412	0.009050	0.005756
-1.23E-07	0.003940	0.010955	
0.71831	0.002412	0.009050	0.005756
-1.23E-07	0.001527	0.007159	
0.85915	0.002412	0.009050	0.005756
-1.23E-07	-0.000887	0.003364	
1.00000	0.002412	0.009050	0.005756
-1.23E-07	-0.003301	-0.000431	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.038732	2.634899	0.061372
3.24E-05	0.067875	3.244776	
0.57746	0.038732	2.634899	0.061372
3.24E-05	0.042138	2.139793	
0.71831	0.038732	2.634899	0.061372
3.24E-05	0.016401	1.034811	
0.85915	0.038732	2.634899	0.061372
3.24E-05	-0.009336	-0.070172	
1.00000	0.038732	2.634899	0.061372
3.24E-05	-0.035073	-1.175155	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.038732	-2.634899	-0.061372
-3.24E-05	-0.067875	-3.244776	
0.57746	-0.038732	-2.634899	-0.061372
-3.24E-05	-0.042138	-2.139793	
0.71831	-0.038732	-2.634899	-0.061372
-3.24E-05	-0.016401	-1.034811	
0.85915	-0.038732	-2.634899	-0.061372
-3.24E-05	0.009336	0.070172	
1.00000	-0.038732	-2.634899	-0.061372
-3.24E-05	0.035073	1.175155	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.038732	2.634899	0.311736
3.93E-05	0.347281	3.244776	
0.57746	0.038732	2.634899	0.311736
3.93E-05	0.216549	2.139793	
0.71831	0.038732	2.634899	0.311736
3.93E-05	0.085818	1.034811	
0.85915	0.038732	2.634899	0.311736
3.93E-05	0.032484	0.070172	
1.00000	0.038732	2.634899	0.311736
3.93E-05	0.128389	1.175155	

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -0.042057 -2.634899 -0.228690
-3.24E-05 -0.044776 -3.24E-05
0.57746 -0.042057 -2.634899 -0.228690
-3.24E-05 -0.159325 -2.139793
0.71831 -0.042057 -2.634899 -0.228690
-3.24E-05 -0.063420 -1.034811
0.85915 -0.042057 -2.634899 -0.228690
-3.24E-05 -0.044913 -0.070172
1.00000 -0.042057 -2.634899 -0.228690
-3.24E-05 -0.175644 -1.175155
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 565
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 285 ========== LENGTH = 2.976463

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.004649 1.239567 0.306715
-4.47E-06 0.171070 -0.536421
0.14081 -0.004649 1.239567 0.306715
-4.47E-06 0.042521 -1.055943
0.28162 -0.004649 1.239567 0.306715
-4.47E-06 -0.086028 -1.575465
0.42243 -0.004649 1.239567 0.306715
-4.47E-06 -0.214577 -2.094987
0.56324 -0.004649 1.239567 0.306715
-4.47E-06 -0.343126 -2.614510

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.008544 -2.518993 -0.130634
-1.30E-05 -0.072894 1.075590
0.14081 -0.008544 -2.518993 -0.130634
-1.30E-05 -0.018144 2.131340
0.28162 -0.008544 -2.518993 -0.130634
-1.30E-05 0.036607 3.187090
0.42243 -0.008544 -2.518993 -0.130634
-1.30E-05 0.091358 4.242840
0.56324 -0.008544 -2.518993 -0.130634
-1.30E-05 0.146108 5.298590

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.013129 1.397459 -0.227493
2.56E-05 -0.126819 -0.599477
0.14081 0.013129 1.397459 -0.227493
2.56E-05 -0.031473 -1.185174
0.28162 0.013129 1.397459 -0.227493
2.56E-05 0.063873 -1.770872
0.42243 0.013129 1.397459 -0.227493
2.56E-05 0.159219 -2.356569
0.56324 0.013129 1.397459 -0.227493
2.56E-05 0.254565 -2.942266

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.006529 -0.146560 0.067600
-1.08E-05 0.037722 0.078170
0.14081 0.006529 -0.146560 0.067600
-1.08E-05 0.009390 0.139596
0.28162 0.006529 -0.146560 0.067600
-1.08E-05 -0.018942 0.201021
0.42243 0.006529 -0.146560 0.067600
-1.08E-05 -0.047274 0.262447
0.56324 0.006529 -0.146560 0.067600
-1.08E-05 -0.075606 0.323872

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.009130 0.019554 -0.021390
3.43E-06 -0.011909 -0.017239
0.14081 -0.009130 0.019554 -0.021390
3.43E-06 -0.002944 -0.056434
0.28162 -0.009130 0.019554 -0.021390
3.43E-06 0.006021 -0.033630
0.42243 -0.009130 0.019554 -0.021390
3.43E-06 0.014986 -0.041825
0.56324 -0.009130 0.019554 -0.021390
3.43E-06 0.023951 -0.050021

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.002665 0.008973 0.005203
-8.64E-07 0.002831 -0.011906
0.14081 0.002665 0.008973 0.005203
-8.64E-07 0.000650 -0.004384
0.28162 0.002665 0.008973 0.005203
-8.64E-07 -0.001530 -0.008145
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 566
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42243 0.002665 0.008973 0.005203
-8.64E-07 -0.003711 -0.011906
0.56324 0.002665 0.008973 0.005203
-8.64E-07 -0.005892 -0.015666

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.000650 2.656580 0.057831
2.46E-05 0.033341 -2.256137
0.14081 -0.000650 2.656580 0.057831
2.46E-05 0.008103 -2.266552
0.28162 -0.000650 2.656580 0.057831
2.46E-05 -0.016134 -3.379966
0.42243 -0.000650 2.656580 0.057831
2.46E-05 -0.040372 -4.493381
0.56324 -0.000650 2.656580 0.057831
2.46E-05 -0.064610 -5.606796

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.000650 -2.656580 -0.057831
-2.46E-05 -0.032341 1.153137
0.14081 0.000650 -2.656580 -0.057831
-2.46E-05 -0.008103 2.266552
0.28162 0.000650 -2.656580 -0.057831
-2.46E-05 0.016134 3.379966
0.42243 0.000650 -2.656580 -0.057831
-2.46E-05 0.040372 4.493381
0.56324 0.000650 -2.656580 -0.057831
-2.46E-05 0.064610 5.606796

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.013129 2.656580 0.306715
2.56E-05 0.171070 1.153137
0.14081 0.013129 2.656580 0.306715
2.56E-05 0.042521 2.266552
0.28162 0.013129 2.656580 0.306715
2.56E-05 0.063873 3.379966
0.42243 0.013129 2.656580 0.306715
2.56E-05 0.159219 4.493381
0.56324 0.013129 2.656580 0.306715
2.56E-05 0.254565 5.606796

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.009130 -2.656580 -0.227493
-2.46E-05 -0.126819 -1.153137
0.14081 -0.009130 -2.656580 -0.227493
-2.46E-05 -0.031473 -2.266552
0.28162 -0.009130 -2.656580 -0.227493
-2.46E-05 -0.086028 -3.379966
0.42243 -0.009130 -2.656580 -0.227493
-2.46E-05 -0.214577 -4.493381
0.56324 -0.009130 -2.656580 -0.227493
-2.46E-05 -0.343126 -5.606796

ELEM 286 ========== LENGTH = 2.977195

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43665 0.060254 1.677538 0.261171
2.36E-05 0.280675 2.276971
0.57749 0.060254 1.677538 0.261171
2.36E-05 0.171166 1.573581
0.71833 0.060254 1.677538 0.261171
2.36E-05 0.061657 0.870191
0.85916 0.060254 1.677538 0.261171
2.36E-05 -0.047852 0.166801
1.00000 0.060254 1.677538 0.261171
2.36E-05 -0.157360 -0.536588
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 567
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43665 -0.198577 -3.316418 0.011868
-3.33E-06 0.013252 -4.370706
0.57749 -0.198577 -3.316418 0.011868
-3.33E-06 0.008276 -3.130136
0.71833 -0.198577 -3.316418 0.011868
-3.33E-06 0.003300 -1.739566
0.85916 -0.198577 -3.316418 0.011868
-3.33E-06 -0.001676 -0.348996
1.00000 -0.198577 -3.316418 0.011868
-3.33E-06 -0.006652 1.041574

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43665 0.166609 1.806295 -0.351489
-2.03E-05 -0.378421 2.483295
0.57749 0.166609 1.806295 -0.351489
-2.03E-05 -0.231042 1.725918
0.71833 0.166609 1.806295 -0.351489
-2.03E-05 -0.083663 0.968541
0.85916 0.166609 1.806295 -0.351489
-2.03E-05 0.063716 0.211163
1.00000 0.166609 1.806295 -0.351489
-2.03E-05 0.211095 -0.546214

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43665 -0.027132 -0.207816 0.101986
-2.03E-07 0.109913 -0.293182
0.57749 -0.027132 -0.207816 0.101986
-2.03E-07 0.067150 -0.206045
0.71833 -0.027132 -0.207816 0.101986
-2.03E-07 0.024388 -0.118907
0.85916 -0.027132 -0.207816 0.101986
-2.03E-07 -0.018374 -0.031770
1.00000 -0.027132 -0.207816 0.101986
-2.03E-07 -0.061137 0.055367

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43665 -0.003851 0.031142 -0.031127
4.65E-07 -0.033519 0.037671
0.57749 -0.003851 0.031142 -0.031127
4.65E-07 -0.020467 0.024613
0.71833 -0.003851 0.031142 -0.031127
4.65E-07 -0.007416 0.011555
0.85916 -0.003851 0.031142 -0.031127
4.65E-07 0.005635 -0.001502
1.00000 -0.003851 0.031142 -0.031127
4.65E-07 0.018687 -0.014560

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43665 0.002697 0.009260 0.007591
-2.96E-07 0.008100 0.015951
0.57749 0.002697 0.009260 0.007591
-2.96E-07 0.004917 0.012069
0.71833 0.002697 0.009260 0.007591
-2.96E-07 0.001734 0.008186
0.85916 0.002697 0.009260 0.007591
-2.96E-07 -0.001449 0.004304
1.00000 0.002697 0.009260 0.007591
-2.96E-07 -0.004632 0.000421

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43665 0.223012 3.514974 -0.121445
3.83E-06 -0.131265 4.797937
0.57749 0.223012 3.514974 -0.121445
3.83E-06 -0.080344 3.324112
0.71833 0.223012 3.514974 -0.121445
3.83E-06 -0.029422 1.850287
0.85916 0.223012 3.514974 -0.121445
3.83E-06 0.021500 -0.376463
1.00000 0.223012 3.514974 -0.121445
3.83E-06 0.072421 -1.097362
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 568
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43665 -0.223012 -3.514974 0.121445
-3.83E-06 0.131265 -4.797937
0.57749 -0.223012 -3.514974 0.121445
-3.83E-06 0.080344 -3.324112
0.71833 -0.223012 -3.514974 0.121445
-3.83E-06 0.029422 -1.850287
0.85916 -0.223012 -3.514974 0.121445
-3.83E-06 -0.021500 -0.376463
1.00000 -0.223012 -3.514974 0.121445
-3.83E-06 -0.072421 1.097362

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43665 0.223012 3.514974 0.261171
2.36E-05 0.280675 4.797937
0.57749 0.223012 3.514974 0.261171
2.36E-05 0.171166 3.324112
0.71833 0.223012 3.514974 0.261171
2.36E-05 0.061657 1.850287
0.85916 0.223012 3.514974 0.261171
2.36E-05 -0.047852 0.376463
1.00000 0.223012 3.514974 0.261171
2.36E-05 0.211095 1.097362

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43665 -0.223012 -3.514974 -0.351489
-2.03E-05 -0.378421 -4.797937
0.57749 -0.223012 -3.514974 -0.351489
-2.03E-05 -0.231042 -3.324112
0.71833 -0.223012 -3.514974 -0.351489
-2.03E-05 -0.083663 -1.850287
0.85916 -0.223012 -3.514974 -0.351489
-2.03E-05 -0.047852 -0.376463
1.00000 -0.223012 -3.514974 -0.351489
-2.03E-05 -0.157360 -1.097362

ELEM 287 ========== LENGTH = 2.978190

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.095253 1.645766 0.256518
-8.79E-06 0.153360 -0.528188
0.14087 0.095253 1.645766 0.256518
-8.79E-06 0.045739 -1.218665
0.28175 0.095253 1.645766 0.256518
-8.79E-06 -0.061883 -1.909142
0.42262 0.095253 1.645766 0.256518
-8.79E-06 -0.169504 -2.599619
0.56349 0.095253 1.645766 0.256518
-8.79E-06 -0.277125 -3.290097

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.160180 -3.276900 0.012774
-3.37E-06 0.007446 1.023878
0.14087 -0.160180 -3.276900 0.012774
-3.37E-06 0.002087 2.398694
0.28175 -0.160180 -3.276900 0.012774
-3.37E-06 -0.003272 3.773509
0.42262 -0.160180 -3.276900 0.012774
-3.37E-06 -0.008631 5.148325
0.56349 -0.160180 -3.276900 0.012774
-3.37E-06 -0.013990 6.523140

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.070793 1.824776 -0.346763
2.18E-05 -0.207043 -0.534178
0.14087 0.070793 1.824776 -0.346763
2.18E-05 -0.061560 -1.299758
0.28175 0.070793 1.824776 -0.346763
2.18E-05 0.083924 -2.065339
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 569
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42262 0.070793 1.824776 -0.346763
2.18E-05 0.229408 -2.830919
0.56349 0.070793 1.824776 -0.346763
2.18E-05 0.374891 -3.596500

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.002000 -0.242075 0.101315
-1.27E-05 0.060542 0.051800
0.14087 0.002000 -0.242075 0.101315
-1.27E-05 0.018035 0.153361
0.28175 0.002000 -0.242075 0.101315
-1.27E-05 -0.024471 0.254923
0.42262 0.002000 -0.242075 0.101315
-1.27E-05 -0.066978 0.356485
0.56349 0.002000 -0.242075 0.101315
-1.27E-05 -0.109484 0.458047

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.012442 0.041061 -0.030732
4.22E-06 -0.018345 -0.013546
0.14087 -0.012442 0.041061 -0.030732
4.22E-06 -0.005451 -0.030773
0.28175 -0.012442 0.041061 -0.030732
4.22E-06 0.007442 -0.048000
0.42262 -0.012442 0.041061 -0.030732
4.22E-06 0.020336 -0.065227
0.56349 -0.012442 0.041061 -0.030732
4.22E-06 0.033229 -0.082455

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.004577 0.007371 0.006889
-1.15E-06 0.004040 0.000234
0.14087 0.004577 0.007371 0.006889
-1.15E-06 0.001840 -0.006259
0.28175 0.004577 0.007371 0.006889
-1.15E-06 -0.001740 -0.005951
0.42262 0.004577 0.007371 0.006889
-1.15E-06 -0.004631 -0.009044
0.56349 0.004577 0.007371 0.006889
-1.15E-06 -0.007521 -0.012136

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.153603 3.511604 -0.120978
1.73E-05 0.072028 -1.575912
0.14087 0.153603 3.511604 -0.120978
1.73E-05 -0.021272 -2.549197
0.28175 0.153603 3.511604 -0.120978
1.73E-05 0.029484 -4.022481
0.42262 0.153603 3.511604 -0.120978
1.73E-05 0.080240 -5.495766
0.56349 0.153603 3.511604 -0.120978
1.73E-05 0.130996 -6.969051

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.153603 -3.511604 0.120978
-1.73E-05 0.072028 1.075912
0.14087 -0.153603 -3.511604 0.120978
-1.73E-05 0.021272 2.549197
0.28175 -0.153603 -3.511604 0.120978
-1.73E-05 -0.029484 4.022481
0.42262 -0.153603 -3.511604 0.120978
-1.73E-05 -0.080240 5.495766
0.56349 -0.153603 -3.511604 0.120978
-1.73E-05 -0.130996 6.969051

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.153603 3.511604 0.256518
2.18E-05 0.153360 1.075912
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 570
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14087 0.153603 3.511604 0.256518
2.18E-05 0.045739 2.549197
0.28175 0.153603 3.511604 0.256518
2.18E-05 0.093924 4.022481
0.42262 0.153603 3.511604 0.256518
2.18E-05 0.229408 5.495766
0.56349 0.153603 3.511604 0.256518
2.18E-05 0.374891 6.969051

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.160180 -3.511604 -0.346763
-1.73E-05 -0.207043 -1.075912
0.14087 -0.160180 -3.511604 -0.346763
-1.73E-05 -0.061560 -2.549197
0.28175 -0.160180 -3.511604 -0.346763
-1.73E-05 -0.061883 -4.022481
0.42262 -0.160180 -3.511604 -0.346763
-1.73E-05 -0.169504 -5.495766
0.56349 -0.160180 -3.511604 -0.346763
-1.73E-05 -0.277125 -6.969051

ELEM 288 ========== LENGTH = 2.977394

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.043423 1.317882 0.207880
1.31E-05 0.223760 1.640373
0.57747 0.043423 1.317882 0.207880
1.31E-05 0.136586 1.087722
0.71831 0.043423 1.317882 0.207880
1.31E-05 0.049412 0.535070
0.85916 0.043423 1.317882 0.207880
1.31E-05 -0.037763 -0.017582
1.00000 0.043423 1.317882 0.207880
1.31E-05 -0.124937 -0.570234

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.075406 -2.546763 0.123014
1.76E-05 0.132311 -3.170905
0.57747 -0.075406 -2.546763 0.123014
1.76E-05 0.080725 -2.102923
0.71831 -0.075406 -2.546763 0.123014
1.76E-05 0.029139 -1.034942
0.85916 -0.075406 -2.546763 0.123014
1.76E-05 -0.022446 0.033040
1.00000 -0.075406 -2.546763 0.123014
1.76E-05 -0.074032 1.101021

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.039118 1.376328 -0.423790
-3.16E-05 -0.456192 1.731521
0.57747 0.039118 1.376328 -0.423790
-3.16E-05 -0.278476 1.154360
0.71831 0.039118 1.376328 -0.423790
-3.16E-05 -0.100760 0.577199
0.85916 0.039118 1.376328 -0.423790
-3.16E-05 0.076956 3.75E-05
1.00000 0.039118 1.376328 -0.423790
-3.16E-05 0.254671 -0.577124

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.001710 -0.186342 0.120476
9.93E-07 0.129935 -0.250575
0.57747 -0.001710 -0.186342 0.120476
9.93E-07 0.079414 -0.172433
0.71831 -0.001710 -0.186342 0.120476
9.93E-07 0.028892 -0.094290
0.85916 -0.001710 -0.186342 0.120476
9.93E-07 -0.021629 -0.016148
1.00000 -0.001710 -0.186342 0.120476
9.93E-07 -0.072151 0.061894
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 572
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.008227 0.035675 -0.036091
3.27E-07 -0.038895 0.042948
0.57747 -0.008227 0.035675 -0.036091
3.27E-07 -0.023760 0.027988
0.71831 -0.008227 0.035675 -0.036091
3.27E-07 -0.008625 0.013027
0.85916 -0.008227 0.035675 -0.036091
3.27E-07 0.006509 -0.001933
1.00000 -0.008227 0.035675 -0.036091
3.27E-07 0.021644 -0.016893

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.002802 0.003220 0.008511
-3.86E-07 0.009081 0.006637
0.57747 0.002802 0.003220 0.008511
-3.86E-07 0.005512 0.005287
0.71831 0.002802 0.003220 0.008511
-3.86E-07 0.001942 0.003936
0.85916 0.002802 0.003220 0.008511
-3.86E-07 -0.001627 0.002586
1.00000 0.002802 0.003220 0.008511
-3.86E-07 -0.005196 0.001236

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.074314 2.729885 -0.252001
-1.82E-05 -0.271327 3.414842
0.57747 0.074314 2.729885 -0.252001
-1.82E-05 -0.165650 2.270069
0.71831 0.074314 2.729885 -0.252001
-1.82E-05 -0.059974 1.125296
0.85916 0.074314 2.729885 -0.252001
-1.82E-05 0.045702 -0.019477
1.00000 0.074314 2.729885 -0.252001
-1.82E-05 0.151379 -1.164251

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.074314 -2.729885 0.252001
1.82E-05 0.271327 -3.414842
0.57747 -0.074314 -2.729885 0.252001
1.82E-05 0.165650 -2.270069
0.71831 -0.074314 -2.729885 0.252001
1.82E-05 0.059974 -1.125296
0.85916 -0.074314 -2.729885 0.252001
1.82E-05 -0.045702 0.019477
1.00000 -0.074314 -2.729885 0.252001
1.82E-05 -0.151379 1.164251

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3

```
0.43662     0.074314     2.729885     0.252001
1.82E-05    0.271327     3.414842
0.57747     0.074314     2.729885     0.252001
1.82E-05    0.165650     2.270069
0.71831     0.074314     2.729885     0.252001
1.82E-05    0.059974     1.125296
0.85916     0.074314     2.729885     0.252001
1.82E-05    0.076956     0.033040
1.00000     0.074314     2.729885     0.252001
1.82E-05    0.254671     1.164251

COMB  SETTLE  ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
0.43662    -0.075406    -2.729885    -0.423790
-3.16E-05   -0.456192    -3.414842
0.57747    -0.075406    -2.729885    -0.423790
-3.16E-05   -0.278476    -2.270069
0.71831    -0.075406    -2.729885    -0.423790
-3.16E-05   -0.100760    -1.125296
0.85916    -0.075406    -2.729885    -0.423790
-3.16E-05   -0.045702    -0.019477
1.00000    -0.075406    -2.729885    -0.423790
-3.16E-05   -0.151379    -1.164251
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                        Page
<            UNEQUAL          SETTLEMENT          >
                                    573

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      289  ================== LENGTH
=     2.976399

LOAD     -A1  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.016732     1.343703     0.205634
-1.32E-05    0.122562    -0.563076
0.14081    -0.016732     1.343703     0.205634
-1.32E-05    0.036381    -1.126221
0.28162    -0.016732     1.343703     0.205634
-1.32E-05   -0.049600    -1.689367
0.42242    -0.016732     1.343703     0.205634
-1.32E-05   -0.135982    -2.252512
0.56323    -0.016732     1.343703     0.205634
-1.32E-05   -0.222163    -2.815658

LOAD     -P1  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.058222    -2.611177     0.121159
 4.40E-06   -0.072627     1.066301
0.14081    -0.058222    -2.611177     0.121159
 4.40E-06    0.021849     2.180645
0.28162    -0.058222    -2.611177     0.121159
 4.40E-06   -0.028928     3.274989
0.42242    -0.058222    -2.611177     0.121159
 4.40E-06   -0.079706     4.369332
0.56323    -0.058222    -2.611177     0.121159
 4.40E-06   -0.130484     5.463676

LOAD     -P2  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.094677     1.435715    -0.418869
 1.97E-05   -0.250080    -0.567709
0.14081    0.094677     1.435715    -0.418869
 1.97E-05   -0.074532    -1.169416
0.28162    0.094677     1.435715    -0.418869
 1.97E-05    0.101016    -1.771124
0.42242    0.094677     1.435715    -0.418869
 1.97E-05    0.276564    -2.372832
0.56323    0.094677     1.435715    -0.418869
 1.97E-05    0.452112    -2.974539

LOAD     -P3  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.018165    -0.213302     0.120206
-1.44E-05    0.071757     0.059583
0.14081    -0.018165    -0.213302     0.120206
-1.44E-05    0.021378     0.148977
0.28162    -0.018165    -0.213302     0.120206
-1.44E-05   -0.029000     0.238372
0.42242    -0.018165    -0.213302     0.120206
-1.44E-05   -0.079379     0.327767
0.56323    -0.018165    -0.213302     0.120206
-1.44E-05   -0.129757     0.417161

LOAD     -P4  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    -0.003122     0.043168    -0.035857
 4.90E-06   -0.021387    -0.016210
0.14081    -0.003122     0.043168    -0.035857
 4.90E-06   -0.006360    -0.034301
0.28162    -0.003122     0.043168    -0.035857
 4.90E-06    0.008668    -0.052393
0.42242    -0.003122     0.043168    -0.035857
 4.90E-06    0.023696    -0.070484
0.56323    -0.003122     0.043168    -0.035857
 4.90E-06    0.038723    -0.088576

LOAD     -P5  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.001564     0.001893     0.007727
-1.39E-06    0.004522     0.001110
0.14081    0.001564     0.001893     0.007727
-1.39E-06    0.000316     0.000316
0.28162    0.001564     0.001893     0.007727
-1.39E-06   -0.001955    -0.000477
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                        Page
<            UNEQUAL          SETTLEMENT          >
                                    574

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
0.42242    0.001564     0.001893     0.007727
-1.39E-06   -0.005193    -0.001271
0.56323    0.001564     0.001893     0.007727
-1.39E-06   -0.008431    -0.002064

LOAD   -2N+1-  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.074823     2.822585    -0.249092
 1.14E-05   -0.148906    -1.146994
0.14081    0.074823     2.822585    -0.249092
 1.14E-05   -0.044511    -2.329939
0.28162    0.074823     2.822585    -0.249092
 1.14E-05    0.059883    -3.512884
0.42242    0.074823     2.822585    -0.249092
 1.14E-05    0.164278    -4.695828
0.56323    0.074823     2.822585    -0.249092
 1.14E-05    0.268672    -5.878773

LOAD   -2N+2-  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000   -0.074823    -2.822585     0.249092
-1.14E-05    0.148906     1.146994
0.14081   -0.074823    -2.822585     0.249092
-1.14E-05    0.044511     2.329939
0.28162   -0.074823    -2.822585     0.249092
-1.14E-05   -0.059883     3.512884
0.42242   -0.074823    -2.822585     0.249092
-1.14E-05   -0.164278     4.695828
0.56323   -0.074823    -2.822585     0.249092
-1.14E-05   -0.268672     5.878773

COMB  SETTLE  ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.094677     2.822585     0.249092
1.97E-05    0.148906     1.146994
0.14081    0.094677     2.822585     0.249092
1.97E-05    0.044511     2.329939
0.28162    0.094677     2.822585     0.249092
1.97E-05    0.101016     3.512884
0.42242    0.094677     2.822585     0.249092
1.97E-05    0.276564     4.695828
0.56323    0.094677     2.822585     0.249092
1.97E-05    0.452112     5.878773

COMB  SETTLE  ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
0.00000   -0.074823    -2.822585    -0.418869
-1.44E-05   -0.250080    -1.146994
0.14081   -0.074823    -2.822585    -0.418869
-1.44E-05   -0.074532    -2.329939
0.28162   -0.074823    -2.822585    -0.418869
-1.44E-05   -0.059883    -3.512884
0.42242   -0.074823    -2.822585    -0.418869
-1.44E-05   -0.164278    -4.695828
0.56323   -0.074823    -2.822585    -0.418869
-1.44E-05   -0.268672    -5.878773

ELEM      290  ================== LENGTH
=     2.977259

LOAD     -A1  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664    -0.058064     0.869299     0.126777
 3.14E-06    0.141006     0.934059
0.57748    -0.058064     0.869299     0.126777
 3.14E-06    0.087846     0.569549
0.71832    -0.058064     0.869299     0.126777
 3.14E-06    0.034687     0.205039
0.85916    -0.058064     0.869299     0.126777
 3.14E-06   -0.018473    -0.159470
1.00000    -0.058064     0.869299     0.126777
 3.14E-06   -0.071632    -0.523980
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                        Page
<            UNEQUAL          SETTLEMENT          >
                                    575

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664    0.081194    -1.679314     0.250566
 3.98E-05    0.279954    -1.822256
0.57748    0.081194    -1.679314     0.250566
 3.98E-05    0.174888    -1.118095
0.71832    0.081194    -1.679314     0.250566
 3.98E-05    0.069822    -0.413934
0.85916    0.081194    -1.679314     0.250566
 3.98E-05   -0.035244     0.290227
1.00000    0.081194    -1.679314     0.250566
 3.98E-05   -0.140310     0.994388

LOAD     -P2  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.019907     0.896976    -0.476649
-4.45E-05   -0.531982     1.005200
0.57748   -0.019907     0.896976    -0.476649
-4.45E-05   -0.332117     0.629084
0.71832   -0.019907     0.896976    -0.476649
-4.45E-05   -0.132251     0.252969
0.85916   -0.019907     0.896976    -0.476649
-4.45E-05    0.067615    -0.123146
1.00000   -0.019907     0.896976    -0.476649
-4.45E-05    0.267480    -0.499261

LOAD     -P3  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.001172    -0.109698     0.128536
 1.74E-06    0.143842    -0.143188
0.57748   -0.001172    -0.109698     0.128536
 1.74E-06    0.089945    -0.097190
0.71832   -0.001172    -0.109698     0.128536
 1.74E-06    0.036047    -0.051192
0.85916   -0.001172    -0.109698     0.128536
 1.74E-06   -0.017850     0.005194
1.00000   -0.001172    -0.109698     0.128536
 1.74E-06   -0.071747     0.040804

LOAD     -P4  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.002040     0.020243    -0.038120
 3.89E-07   -0.042610     0.019310
0.57748   -0.002040     0.020243    -0.038120
 3.89E-07   -0.026626     0.010822
0.71832   -0.002040     0.020243    -0.038120
 3.89E-07   -0.010641     0.002333
0.85916   -0.002040     0.020243    -0.038120
 3.89E-07    0.005343    -0.006155
1.00000   -0.002040     0.020243    -0.038120
 3.89E-07    0.021327    -0.014643

LOAD     -P5  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -1.11E-05     0.002494     0.008889
-5.35E-07    0.009790     0.006876
0.57748   -1.11E-05     0.002494     0.008889
-5.35E-07    0.006053     0.005830
0.71832   -1.11E-05     0.002494     0.008889
-5.35E-07    0.002336     0.004784
0.85916   -1.11E-05     0.002494     0.008889
-5.35E-07   -0.001391     0.003738
1.00000   -1.11E-05     0.002494     0.008889
-5.35E-07   -0.005118     0.002692

LOAD   -2N+1-  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.080011     1.786518    -0.387992
 4.10E-05   -0.433587     1.958568
0.57748   -0.080011     1.786518    -0.387992
 4.10E-05   -0.270896     1.209455
0.71832   -0.080011     1.786518    -0.387992
 4.10E-05   -0.108206     0.460342
0.85916   -0.080011     1.786518    -0.387992
 4.10E-05    0.054485    -0.288771
1.00000   -0.080011     1.786518    -0.387992
 4.10E-05    0.217175    -1.037884
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                        Page
<            UNEQUAL          SETTLEMENT          >
                                    576

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2-  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664    0.080011    -1.786518     0.387992
 4.10E-05    0.433587    -1.958568
0.57748    0.080011    -1.786518     0.387992
 4.10E-05    0.270896    -1.209455
0.71832    0.080011    -1.786518     0.387992
 4.10E-05    0.108206    -0.460342
0.85916    0.080011    -1.786518     0.387992
 4.10E-05   -0.054485     0.288771
1.00000    0.080011    -1.786518     0.387992
 4.10E-05   -0.217175     1.037884

COMB  SETTLE  ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
0.43664    0.081194     1.786518     0.387992
4.10E-05    0.433587     1.958568
0.57748    0.081194     1.786518     0.387992
4.10E-05    0.270896     1.209455
0.71832    0.081194     1.786518     0.387992
4.10E-05    0.108206     0.460342
0.85916    0.081194     1.786518     0.387992
4.10E-05    0.067615     0.290227
1.00000    0.081194     1.786518     0.387992
4.10E-05    0.267480     1.037884

COMB  SETTLE  ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.080011    -1.786518    -0.476649
-4.45E-05   -0.531982    -1.958568
0.57748   -0.080011    -1.786518    -0.476649
-4.45E-05   -0.332117    -1.209455
0.71832   -0.080011    -1.786518    -0.476649
-4.45E-05   -0.132251    -0.460342
0.85916   -0.080011    -1.786518    -0.476649
-4.45E-05   -0.054485    -0.288771
1.00000   -0.080011    -1.786518    -0.476649
-4.45E-05   -0.217175    -1.037884

ELEM      291  ================== LENGTH
=     2.977259

LOAD     -A1  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000   -0.073928     0.921646     0.123690
-1.27E-05    0.068858    -0.514221
0.14084   -0.073928     0.921646     0.123690
-1.27E-05    0.016492    -0.080681
0.28168   -0.073928     0.921646     0.123690
-1.27E-05   -0.034873    -1.287141
0.42252   -0.073928     0.921646     0.123690
-1.27E-05   -0.086738    -1.673600
0.56336   -0.073928     0.921646     0.123690
-1.27E-05   -0.138603    -2.060060

LOAD     -P1  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.117408    -1.786206     0.249278
 1.06E-06    0.139122     0.975317
0.14084    0.117408    -1.786206     0.249278
 1.06E-06    0.034596     1.724299
0.28168    0.117408    -1.786206     0.249278
 1.06E-06   -0.069929     2.473282
0.42252    0.117408    -1.786206     0.249278
 1.06E-06   -0.174455     3.222264
0.56336    0.117408    -1.786206     0.249278
 1.06E-06   -0.278981     3.971246

LOAD     -P2  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000   -0.043660     0.964306    -0.471299
 2.37E-05   -0.262616    -0.488711
0.14084   -0.043660     0.964306    -0.471299
 2.37E-05   -0.064993    -0.893058
0.28168   -0.043660     0.964306    -0.471299
 2.37E-05    0.132629    -1.297406
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                        Page
<            UNEQUAL          SETTLEMENT          >
                                    577

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
0.42252   -0.043660     0.964306    -0.471299
 2.37E-05    0.330252    -1.701754
0.56336   -0.043660     0.964306    -0.471299
 2.37E-05    0.527874    -2.106102

LOAD     -P3  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.003221    -0.126372     0.128316
-1.60E-05    0.071446     0.039193
0.14084    0.003221    -0.126372     0.128316
-1.60E-05    0.017641     0.092182
0.28168    0.003221    -0.126372     0.128316
-1.60E-05   -0.036164     0.145172
0.42252    0.003221    -0.126372     0.128316
-1.60E-05   -0.089969     0.198162
0.56336    0.003221    -0.126372     0.128316
-1.60E-05   -0.143774     0.251151

LOAD     -P4  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000   -0.003293     0.025040    -0.037805
 5.48E-06   -0.021021    -0.014187
0.14084   -0.003293     0.025040    -0.037805
 5.48E-06   -0.005169    -0.024686
0.28168   -0.003293     0.025040    -0.037805
 5.48E-06    0.010684    -0.035186
0.42252   -0.003293     0.025040    -0.037805
 5.48E-06    0.026536    -0.045686
0.56336   -0.003293     0.025040    -0.037805
 5.48E-06    0.042388    -0.056185

LOAD     -P5  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.000252     0.001586     0.007820
-1.59E-06    0.004211     0.002609
0.14084    0.000252     0.001586     0.007820
-1.59E-06    0.000932     0.001944
0.28168    0.000252     0.001586     0.007820
-1.59E-06   -0.002347     0.001279
0.42252    0.000252     0.001586     0.007820
-1.59E-06   -0.005626     0.000614
0.56336    0.000252     0.001586     0.007820
-1.59E-06   -0.008905    -5.07E-05

LOAD   -2N+1-  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000   -0.120881     1.910992    -0.385414
 1.65E-05   -0.214779    -1.017119
0.14084   -0.120881     1.910992    -0.385414
 1.65E-05   -0.053170    -1.818426
0.28168   -0.120881     1.910992    -0.385414
 1.65E-05    0.108440    -2.619733
0.42252   -0.120881     1.910992    -0.385414
 1.65E-05    0.270050    -3.421040
0.56336   -0.120881     1.910992    -0.385414
 1.65E-05    0.431659    -4.222347

LOAD   -2N+2-  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.120881    -1.910992     0.385414
-1.65E-05    0.214779     1.017119
0.14084    0.120881    -1.910992     0.385414
-1.65E-05    0.053170     1.818426
0.28168    0.120881    -1.910992     0.385414
-1.65E-05   -0.108440     2.619733
0.42252    0.120881    -1.910992     0.385414
-1.65E-05   -0.270050     3.421040
0.56336    0.120881    -1.910992     0.385414
-1.65E-05   -0.431659     4.222347

COMB  SETTLE  ------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
0.00000    0.120881     1.910992     0.385414
2.37E-05    0.214779     1.017119
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                        Page
<            UNEQUAL          SETTLEMENT          >
                                    578

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
0.14084    0.120881     1.910992     0.385414
2.37E-05    0.053170     1.818426
0.28168    0.120881     1.910992     0.385414
2.37E-05    0.132629     2.619733
0.42252    0.120881     1.910992     0.385414
2.37E-05    0.330252     3.421040
0.56336    0.120881     1.910992     0.385414
2.37E-05    0.527874     4.222347

COMB  SETTLE  ------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
0.00000   -0.120881    -1.910992    -0.471299
-1.65E-05   -0.262616    -1.017119
0.14084   -0.120881    -1.910992    -0.471299
-1.65E-05   -0.064993    -1.818426
0.28168   -0.120881    -1.910992    -0.471299
-1.65E-05   -0.108440    -2.619733
0.42252   -0.120881    -1.910992    -0.471299
-1.65E-05   -0.270050    -3.421040
0.56336   -0.120881    -1.910992    -0.471299
-1.65E-05   -0.431659    -4.222347

ELEM      292  ================== LENGTH
=     2.977267

LOAD     -A1  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.066661     0.560520     0.066459
-2.62E-06    0.073440     0.465856
0.57748   -0.066661     0.560520     0.066459
-2.62E-06    0.045572     0.230821
0.71832   -0.066661     0.560520     0.066459
-2.62E-06    0.017705    -0.004214
0.85916   -0.066661     0.560520     0.066459
-2.62E-06   -0.010162    -0.239250
1.00000   -0.066661     0.560520     0.066459
-2.62E-06   -0.038030    -0.474285

LOAD     -P1  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664    0.098384    -1.054298     0.368890
 5.30E-05    0.411361    -0.906321
0.57748    0.098384    -1.054298     0.368890
 5.30E-05    0.256679    -0.464236
0.71832    0.098384    -1.054298     0.368890
 5.30E-05    0.101997    -0.022151
0.85916    0.098384    -1.054298     0.368890
 5.30E-05   -0.052684     0.419934
1.00000    0.098384    -1.054298     0.368890
 5.30E-05   -0.207366     0.862018

LOAD     -P2  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.032154     0.524712    -0.538034
-5.42E-05   -0.599425     0.503116
0.57748   -0.032154     0.524712    -0.538034
-5.42E-05   -0.373818     0.283095
0.71832   -0.032154     0.524712    -0.538034
-5.42E-05   -0.148211     0.063075
0.85916   -0.032154     0.524712    -0.538034
-5.42E-05    0.077395    -0.156946
1.00000   -0.032154     0.524712    -0.538034
-5.42E-05    0.303002    -0.376966

LOAD     -P3  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664    0.000678    -0.039046     0.132775
 4.62E-06    0.148397    -0.073114
0.57748    0.000678    -0.039046     0.132775
 4.62E-06    0.092722    -0.056741
0.71832    0.000678    -0.039046     0.132775
 4.62E-06    0.037047    -0.040369
0.85916    0.000678    -0.039046     0.132775
 4.62E-06   -0.018628    -0.023996
1.00000    0.000678    -0.039046     0.132775
 4.62E-06   -0.074303    -0.007623
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                        Page
<            UNEQUAL          SETTLEMENT          >
                                    579

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664    0.000873     0.007565    -0.039407
-2.67E-07   -0.043977     0.004939
0.57748    0.000873     0.007565    -0.039407
-2.67E-07   -0.027453     0.001766
0.71832    0.000873     0.007565    -0.039407
-2.67E-07   -0.010929    -0.001406
0.85916    0.000873     0.007565    -0.039407
-2.67E-07    0.005595    -0.004578
1.00000    0.000873     0.007565    -0.039407
-2.67E-07    0.022119    -0.007751

LOAD     -P5  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.001120     0.000547     0.009317
-4.97E-07    0.010205     0.005524
0.57748   -0.001120     0.000547     0.009317
-4.97E-07    0.006298     0.005295
0.71832   -0.001120     0.000547     0.009317
-4.97E-07    0.002392     0.005065
0.85916   -0.001120     0.000547     0.009317
-4.97E-07   -0.001515     0.004836
1.00000   -0.001120     0.000547     0.009317
-4.97E-07   -0.005422     0.004606

LOAD   -2N+1-  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664   -0.097942     1.092797    -0.510982
-5.71E-05   -0.569962     0.973911
0.57748   -0.097942     1.092797    -0.510982
-5.71E-05   -0.355699     0.515683
0.71832   -0.097942     1.092797    -0.510982
-5.71E-05   -0.141436     0.057455
0.85916   -0.097942     1.092797    -0.510982
-5.71E-05    0.072827    -0.400773
1.00000   -0.097942     1.092797    -0.510982
-5.71E-05    0.287091    -0.859001

LOAD   -2N+2-  ------------------

REL DIST          P            V2           V3
       T          M2           M3
0.43664    0.097942    -1.092797     0.510982
 5.71E-05    0.569962    -0.973911
0.57748    0.097942    -1.092797     0.510982
```

```
 5.71E-05    0.355699   -0.515683
0.71832      0.097942   -1.092797    0.510982
 5.71E-05    0.141436   -0.057455
0.85916      0.097942   -1.092797    0.510982
 5.71E-05   -0.072827    0.400773
1.00000      0.097942   -1.092797    0.510982
 5.71E-05   -0.287091    0.859001

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43664      0.098384    1.092797    0.510982
5.71E-05     0.569962    0.973911
0.57748      0.098384    1.092797    0.510982
5.71E-05     0.355699    0.515683
0.71832      0.098384    1.092797    0.510982
5.71E-05     0.141436    0.063075
0.85916      0.098384    1.092797    0.510982
5.71E-05     0.077395    0.419934
1.00000      0.098384    1.092797    0.510982
5.71E-05     0.303002    0.862018

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43664     -0.097942   -1.092797   -0.538034
-5.71E-05   -0.599425   -0.973911
0.57748     -0.097942   -1.092797   -0.538034
-5.71E-05   -0.373818   -0.515683
0.71832     -0.097942   -1.092797   -0.538034
-5.71E-05   -0.148211   -0.057455
0.85916     -0.097942   -1.092797   -0.538034
-5.71E-05   -0.072627   -0.400773
1.00000     -0.097942   -1.092797   -0.538034
-5.71E-05   -0.287091   -0.859001
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 580

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM     293 ================== LENGTH
=    2.977199

LOAD     -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.076300    0.506119    0.063500
-8.13E-06    0.035518   -0.466645
0.14084     -0.076300    0.506119    0.063500
-8.13E-06    0.008893   -0.678861
0.28167     -0.076300    0.506119    0.063500
-8.13E-06   -0.017733   -0.891076
0.42251     -0.076300    0.506119    0.063500
-8.13E-06   -0.044358   -1.103292
0.56335     -0.076300    0.506119    0.063500
-8.13E-06   -0.070983   -1.315507

LOAD     -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.117611   -0.969090    0.368191
-8.02E-06    0.206337    0.848114
0.14084      0.117611   -0.969090    0.368191
-8.02E-06    0.051955    1.254453
0.28167      0.117611   -0.969090    0.368191
-8.02E-06   -0.102428    1.660792
0.42251      0.117611   -0.969090    0.368191
-8.02E-06   -0.256810    2.067132
0.56335      0.117611   -0.969090    0.368191
-8.02E-06   -0.411192    2.473471

LOAD     -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.042328    0.514437   -0.533487
 3.01E-05   -0.298614   -0.371074
0.14084     -0.042328    0.514437   -0.533487
 3.01E-05   -0.074923   -0.586777
0.28167     -0.042328    0.514437   -0.533487
 3.01E-05    0.148768   -0.802480
0.42251     -0.042328    0.514437   -0.533487
 3.01E-05    0.372459   -1.018183
0.56335     -0.042328    0.514437   -0.533487
 3.01E-05    0.596150   -1.233887

LOAD     -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.001436   -0.065776    0.132987
-1.84E-05    0.074344   -0.007138
0.14084      0.001436   -0.065776    0.132987
-1.84E-05    0.018582    0.020442
0.28167      0.001436   -0.065776    0.132987
-1.84E-05   -0.037179    0.048022
0.42251      0.001436   -0.065776    0.132987
-1.84E-05   -0.092940    0.075602
0.56335      0.001436   -0.065776    0.132987
-1.84E-05   -0.148701    0.103182

LOAD     -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.000621    0.015183   -0.039093
 6.25E-06   -0.021812   -0.007890
0.14084      0.000621    0.015183   -0.039093
 6.25E-06   -0.005420   -0.014256
0.28167      0.000621    0.015183   -0.039093
 6.25E-06    0.010972   -0.020622
0.42251      0.000621    0.015183   -0.039093
 6.25E-06    0.027363   -0.026988
0.56335      0.000621    0.015183   -0.039093
 6.25E-06    0.043755   -0.033354

LOAD     -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.001040   -0.000872    0.007903
-1.79E-06    0.004226    0.004633
0.14084     -0.001040   -0.000872    0.007903
-1.79E-06    0.000913    0.004999
0.28167     -0.001040   -0.000872    0.007903
-1.79E-06   -0.002401    0.005364
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 581

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42251     -0.001040   -0.000872    0.007903
-1.79E-06   -0.005715    0.005730
0.56335     -0.001040   -0.000872    0.007903
-1.79E-06   -0.009029    0.006096

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.118007    1.035738   -0.509080
 2.82E-05   -0.284907   -0.845609
0.14084     -0.118007    1.035738   -0.509080
 2.82E-05   -0.071450    1.279894
0.28167     -0.118007    1.035738   -0.509080
 2.82E-05    0.142207   -1.714179
0.42251     -0.118007    1.035738   -0.509080
 2.82E-05    0.355465   -2.148464
0.56335     -0.118007    1.035738   -0.509080
 2.82E-05    0.568922   -2.582748

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.118007   -1.035738    0.509080
-2.82E-05    0.284907    0.845609
0.14084     -0.118007   -1.035738    0.509080
-2.82E-05    0.071450    1.279894
0.28167     -0.118007   -1.035738    0.509080
-2.82E-05   -0.142207   -1.714179
0.42251     -0.118007   -1.035738    0.509080
-2.82E-05   -0.355465   -2.148464
0.56335     -0.118007   -1.035738    0.509080
-2.82E-05   -0.568922   -2.582748

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.118007    1.035738    0.509080
3.01E-05     0.284907    0.848114
0.14084      0.118007    1.035738    0.509080
3.01E-05     0.071450    1.279894
0.28167      0.118007    1.035738    0.509080
3.01E-05     0.148768    1.714179
0.42251      0.118007    1.035738    0.509080
3.01E-05     0.372459    2.148464
0.56335      0.118007    1.035738    0.509080
3.01E-05     0.596150    2.582748

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.118007   -1.035738   -0.533487
-2.82E-05   -0.298614   -0.845609
0.14084     -0.118007   -1.035738   -0.533487
-2.82E-05   -0.074923   -1.279894
0.28167     -0.118007   -1.035738   -0.533487
-2.82E-05   -0.142207   -1.714179
0.42251     -0.118007   -1.035738   -0.533487
-2.82E-05   -0.355465   -2.148464
0.56335     -0.118007   -1.035738   -0.533487
-2.82E-05   -0.568922   -2.582748

ELEM     294 ================== LENGTH
=    2.977215

LOAD     -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43665     -0.031714    0.246969    0.010433
-4.39E-06    0.011220   -0.166546
0.57749     -0.031714    0.246969    0.010433
-4.39E-06    0.006845    0.002991
0.71832     -0.031714    0.246969    0.010433
-4.39E-06    0.002471   -0.100565
0.85916     -0.031714    0.246969    0.010433
-4.39E-06   -0.001904   -0.204120
1.00000     -0.031714    0.246969    0.010433
-4.39E-06   -0.006279   -0.307675
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 582

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43665      0.046521   -0.439184    0.467101
 5.57E-05    0.520711   -0.226066
0.57749      0.046521   -0.439184    0.467101
 5.57E-05    0.324853   -0.041915
0.71832      0.046521   -0.439184    0.467101
 5.57E-05    0.128996    0.142237
0.85916      0.046521   -0.439184    0.467101
 5.57E-05   -0.066861    0.326388
1.00000      0.046521   -0.439184    0.467101
 5.57E-05   -0.262718    0.510540

LOAD     -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43665     -0.021825    0.192192   -0.570715
-5.36E-05   -0.636067    0.169233
0.57749     -0.021825    0.192192   -0.570715
-5.36E-05   -0.396764    0.058646
0.71832     -0.021825    0.192192   -0.570715
-5.36E-05   -0.157461    0.008059
0.85916     -0.021825    0.192192   -0.570715
-5.36E-05    0.081842   -0.072527
1.00000     -0.021825    0.192192   -0.570715
-5.36E-05    0.321144   -0.153114

LOAD     -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43665      0.007804   -0.001037    0.120352
 2.47E-06    0.134750   -0.055312
0.57749      0.007804   -0.001037    0.120352
 2.47E-06    0.084285   -0.054877
0.71832      0.007804   -0.001037    0.120352
 2.47E-06    0.033821   -0.054442
0.85916      0.007804   -0.001037    0.120352
 2.47E-06   -0.016643   -0.054007
1.00000      0.007804   -0.001037    0.120352
 2.47E-06   -0.067107   -0.053572

LOAD     -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43665      0.000178    0.004108   -0.036156
 4.34E-07   -0.040395    0.002327
0.57749      0.000178    0.004108   -0.036156
 4.34E-07   -0.025234    0.000605
0.71832      0.000178    0.004108   -0.036156
 4.34E-07   -0.010074   -0.001118
0.85916      0.000178    0.004108   -0.036156
 4.34E-07    0.005087   -0.002841
1.00000      0.000178    0.004108   -0.036156
 4.34E-07    0.020247   -0.004563

LOAD     -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43665     -0.000964   -0.003048    0.008985
-6.70E-07    0.009781    0.003273
0.57749     -0.000964   -0.003048    0.008985
-6.70E-07    0.006014    0.004551
0.71832     -0.000964   -0.003048    0.008985
-6.70E-07    0.002247    0.005829
0.85916     -0.000964   -0.003048    0.008985
-6.70E-07   -0.001521    0.007107
1.00000     -0.000964   -0.003048    0.008985
-6.70E-07   -0.005288    0.008385

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43665     -0.053361    0.443269   -0.596438
-5.75E-05   -0.665241    0.278105
0.57749     -0.053361    0.443269   -0.596438
-5.75E-05   -0.415153    0.092241
0.71832     -0.053361    0.443269   -0.596438
-5.75E-05   -0.165064   -0.093623
0.85916     -0.053361    0.443269   -0.596438
-5.75E-05    0.085024   -0.279488
1.00000     -0.053361    0.443269   -0.596438
-5.75E-05    0.335113   -0.465352
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 583

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43665      0.053361   -0.443269    0.596438
 5.75E-05    0.665241   -0.278105
0.57749      0.053361   -0.443269    0.596438
 5.75E-05    0.415153   -0.092241
0.71832      0.053361   -0.443269    0.596438
 5.75E-05    0.165064    0.093623
0.85916      0.053361   -0.443269    0.596438
 5.75E-05    0.085024    0.279488
1.00000      0.053361   -0.443269    0.596438
 5.75E-05    0.335113    0.465352

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43665      0.053361    0.443269    0.596438
5.75E-05     0.665241    0.278105
0.57749      0.053361    0.443269    0.596438
5.75E-05     0.415153    0.092241
0.71832      0.053361    0.443269    0.596438
5.75E-05     0.165064    0.142237
0.85916      0.053361    0.443269    0.596438
5.75E-05     0.085024    0.326388
1.00000      0.053361    0.443269    0.596438
5.75E-05     0.335113    0.510540

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43665     -0.053361   -0.443269   -0.596438
-5.75E-05   -0.665241   -0.278105
0.57749     -0.053361   -0.443269   -0.596438
-5.75E-05   -0.415153   -0.092241
0.71832     -0.053361   -0.443269   -0.596438
-5.75E-05   -0.165064   -0.100565
0.85916     -0.053361   -0.443269   -0.596438
-5.75E-05   -0.085024   -0.279488
1.00000     -0.053361   -0.443269   -0.596438
-5.75E-05   -0.335113   -0.465352

ELEM     295 ================== LENGTH
=    2.977215

LOAD     -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.047432    0.319420    0.008883
-2.96E-06    0.005015   -0.299733
0.14084     -0.047432    0.319420    0.008883
-2.96E-06    0.001291   -0.433667
0.28168     -0.047432    0.319420    0.008883
-2.96E-06   -0.002434   -0.567602
0.42251     -0.047432    0.319420    0.008883
-2.96E-06   -0.006158   -0.701536
0.56335     -0.047432    0.319420    0.008883
-2.96E-06   -0.009883   -0.835470

LOAD     -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.073711   -0.572650    0.465025
-1.45E-05    0.260434    0.497707
0.14084      0.073711   -0.572650    0.465025
-1.45E-05    0.065447    0.737821
0.28168      0.073711   -0.572650    0.465025
-1.45E-05   -0.129540    0.977935
0.42251      0.073711   -0.572650    0.465025
-1.45E-05   -0.324526    1.218050
0.56335      0.073711   -0.572650    0.465025
-1.45E-05   -0.519513    1.458164

LOAD     -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.029447    0.251876   -0.566160
 2.77E-05   -0.316731   -0.150710
0.14084     -0.029447    0.251876   -0.566160
 2.77E-05   -0.079338   -0.256323
0.28168     -0.029447    0.251876   -0.566160
 2.77E-05    0.158055   -0.361936
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 584

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42251     -0.029447    0.251876   -0.566160
 2.77E-05    0.395448   -0.467548
0.56335     -0.029447    0.251876   -0.566160
 2.77E-05    0.632840   -0.573161

LOAD     -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.002821    0.000700    0.120957
-1.36E-05    0.067499   -0.050334
0.14084      0.002821    0.000700    0.120957
-1.36E-05    0.016782   -0.050627
0.28168      0.002821    0.000700    0.120957
-1.36E-05   -0.033936   -0.050921
0.42251      0.002821    0.000700    0.120957
-1.36E-05   -0.084654   -0.051215
0.56335      0.002821    0.000700    0.120957
-1.36E-05   -0.135372   -0.051508

LOAD     -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.001511    0.003592   -0.035829
 4.93E-06   -0.019937   -0.005487
0.14084      0.001511    0.003592   -0.035829
 4.93E-06   -0.004914   -0.006993
0.28168      0.001511    0.003592   -0.035829
 4.93E-06    0.010109   -0.008499
0.42251      0.001511    0.003592   -0.035829
 4.93E-06    0.025132   -0.010005
0.56335      0.001511    0.003592   -0.035829
 4.93E-06    0.040155   -0.011510

LOAD     -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.001163   -0.002939    0.007124
-1.56E-06    0.003719    0.008557
0.14084     -0.001163   -0.002939    0.007124
-1.56E-06    0.000732    0.009789
0.28168     -0.001163   -0.002939    0.007124
-1.56E-06   -0.002254    0.011022
0.42251     -0.001163   -0.002939    0.007124
-1.56E-06   -0.005241    0.012254
0.56335     -0.001163   -0.002939    0.007124
-1.56E-06   -0.008228    0.013486

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.075369    0.574888   -0.593106
 2.97E-05   -0.331653   -0.455930
0.14084     -0.075369    0.574888   -0.593106
 2.97E-05   -0.082961   -0.696983
0.28168     -0.075369    0.574888   -0.593106
 2.97E-05    0.165730   -0.938036
0.42251     -0.075369    0.574888   -0.593106
 2.97E-05    0.414422   -1.179089
0.56335     -0.075369    0.574888   -0.593106
 2.97E-05    0.663113   -1.420141

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.075369   -0.574888    0.593106
-2.97E-05    0.331653    0.455930
0.14084      0.075369   -0.574888    0.593106
-2.97E-05    0.082961    0.696983
0.28168      0.075369   -0.574888    0.593106
-2.97E-05    0.165730    0.938036
0.42251      0.075369   -0.574888    0.593106
-2.97E-05    0.414422    1.179089
0.56335      0.075369   -0.574888    0.593106
-2.97E-05    0.663113    1.420141

COMB  SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000      0.075369    0.574888    0.593106
2.97E-05     0.331653    0.497707
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 585

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.14084      0.075369    0.574888    0.593106
2.97E-05     0.082961    0.737821
0.28168      0.075369    0.574888    0.593106
2.97E-05     0.165730    0.977935
0.42251      0.075369    0.574888    0.593106
2.97E-05     0.414422    1.218050
0.56335      0.075369    0.574888    0.593106
2.97E-05     0.663113    1.458164

COMB  SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000     -0.075369   -0.574888   -0.593106
-2.97E-05   -0.331653   -0.455930
0.14084     -0.075369   -0.574888   -0.593106
-2.97E-05   -0.082961   -0.696983
0.28168     -0.075369   -0.574888   -0.593106
-2.97E-05   -0.165730   -0.938036
0.42251     -0.075369   -0.574888   -0.593106
-2.97E-05   -0.414422   -1.179089
0.56335     -0.075369   -0.574888   -0.593106
-2.97E-05   -0.663113   -1.420141

ELEM     296 ================== LENGTH
=    2.977307

LOAD     -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43664     -0.014779    0.148040   -0.038424
-4.94E-06   -0.043138    0.009962
0.57748     -0.014779    0.148040   -0.038424
-4.94E-06   -0.027025    0.052115
0.71832     -0.014779    0.148040   -0.038424
-4.94E-06   -0.010913   -0.114192
0.85916     -0.014779    0.148040   -0.038424
-4.94E-06    0.005199   -0.176269
1.00000     -0.014779    0.148040   -0.038424
-4.94E-06    0.021312   -0.238346

LOAD     -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43664      0.007479   -0.217575    0.540492
 5.87E-05    0.602606   -0.045298
0.57748      0.007479   -0.217575    0.540492
 5.87E-05    0.375963    0.045937
0.71832      0.007479   -0.217575    0.540492
 5.87E-05    0.149321    0.137172
0.85916      0.007479   -0.217575    0.540492
 5.87E-05   -0.077322    0.228407
1.00000      0.007479   -0.217575    0.540492
 5.87E-05   -0.303965    0.319642

LOAD     -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43664     -0.002499    0.020032   -0.571115
-5.79E-05   -0.636684    0.064214
0.57748     -0.002499    0.020032   -0.571115
-5.79E-05   -0.397200    0.055814
0.71832     -0.002499    0.020032   -0.571115
-5.79E-05   -0.157716    0.047414
0.85916     -0.002499    0.020032   -0.571115
-5.79E-05    0.081768    0.039014
1.00000     -0.002499    0.020032   -0.571115
-5.79E-05    0.321252    0.030614

LOAD     -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43664      0.010692    0.060465    0.088986
5.00E-06     0.099844   -0.026089
0.57748      0.010692    0.060465    0.088986
5.00E-06     0.062530   -0.051443
0.71832      0.010692    0.060465    0.088986
5.00E-06     0.025215   -0.076798
0.85916      0.010692    0.060465    0.088986
5.00E-06    -0.012099   -0.102152
1.00000      0.010692    0.060465    0.088986
5.00E-06    -0.049413   -0.127506
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 586

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43664     -0.000397   -0.004391   -0.027742
-2.91E-07   -0.031011    0.004081
0.57748     -0.000397   -0.004391   -0.027742
-2.91E-07   -0.019378   -0.002440
0.71832     -0.000397   -0.004391   -0.027742
-2.91E-07   -0.007745   -0.000599
0.85916     -0.000397   -0.004391   -0.027742
-2.91E-07    0.003888    0.001242
1.00000     -0.000397   -0.004391   -0.027742
-2.91E-07    0.015521    0.003083

LOAD     -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43664     -0.000496   -0.006570    0.007804
-5.25E-07    0.008383    0.001493
0.57748     -0.000496   -0.006570    0.007804
-5.25E-07    0.005111    0.004248
0.71832     -0.000496   -0.006570    0.007804
-5.25E-07    0.001838    0.007003
0.85916     -0.000496   -0.006570    0.007804
-5.25E-07   -0.001434    0.009758
1.00000     -0.000496   -0.006570    0.007804
-5.25E-07   -0.004706    0.012513

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43664     -0.017675    0.163681   -0.637282
-6.32E-05   -0.710833    0.069894
0.57748     -0.017675    0.163681   -0.637282
-6.32E-05   -0.443604    0.001258
0.71832     -0.017675    0.163681   -0.637282
-6.32E-05   -0.176374   -0.067377
```

```
 0.85916   -0.017675    0.163681   -0.637282
-6.32E-05   0.090855   -0.136013
 1.00000   -0.017675    0.163681   -0.637282
-6.32E-05   0.358085   -0.204649

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43664   0.017675   -0.163681    0.637282
 6.32E-05   0.710833   -0.069894
 0.57748   0.017675   -0.163681    0.637282
 6.32E-05   0.443604   -0.001258
 0.71832   0.017675   -0.163681    0.637282
 6.32E-05   0.176374    0.067377
 0.85916   0.017675   -0.163681    0.637282
 6.32E-05   -0.090855   0.136013
 1.00000   0.017675   -0.163681    0.637282
 6.32E-05   -0.358085   0.204649

COMB   SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2         M3
 0.43664   0.017675    0.163681    0.637282
 6.32E-05   0.710833    0.069894
 0.57748   0.017675    0.163681    0.637282
 6.32E-05   0.443604    0.055814
 0.71832   0.017675    0.163681    0.637282
 6.32E-05   0.176374    0.137172
 0.85916   0.017675    0.163681    0.637282
 6.32E-05   0.090855    0.228407
 1.00000   0.017675    0.163681    0.637282
 6.32E-05   0.358085    0.319642

COMB   SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2         M3
 0.43664   -0.017675   -0.217575   -0.637282
-6.32E-05   -0.710833   -0.069894
 0.57748   -0.017675   -0.217575   -0.637282
-6.32E-05   -0.443604   -0.052115
 0.71832   -0.017675   -0.217575   -0.637282
-6.32E-05   -0.176374   -0.114192
 0.85916   -0.017675   -0.217575   -0.637282
-6.32E-05   -0.090855   -0.176269
 1.00000   -0.017675   -0.217575   -0.637282
-6.32E-05   -0.358085   -0.238346
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  587

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      297 ================== LENGTH =   2.977365

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.023751    0.146789   -0.037834
 2.80E-06   -0.020764   -0.232518
 0.14084   -0.023751    0.146789   -0.037834
 2.80E-06   -0.004898   -0.294073
 0.28169   -0.023751    0.146789   -0.037834
 2.80E-06    0.010967   -0.355628
 0.42253   -0.023751    0.146789   -0.037834
 2.80E-06    0.026832   -0.417183
 0.56337   -0.023751    0.146789   -0.037834
 2.80E-06    0.042697   -0.478737

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.019394   -0.213135    0.536388
-2.36E-05    0.299982    0.312169
 0.14084    0.019394   -0.213135    0.536388
-2.36E-05    0.075052    0.401545
 0.28169    0.019394   -0.213135    0.536388
-2.36E-05   -0.149877    0.490921
 0.42253    0.019394   -0.213135    0.536388
-2.36E-05   -0.374807    0.580298
 0.56337    0.019394   -0.213135    0.536388
-2.36E-05   -0.599736    0.669674

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.001824    0.013931   -0.566650
 2.90E-05   -0.316955    0.027902
 0.14084    0.001824    0.013931   -0.566650
 2.90E-05   -0.079335    0.022060
 0.28169    0.001824    0.013931   -0.566650
 2.90E-05    0.158284    0.016218
 0.42253    0.001824    0.013931   -0.566650
 2.90E-05    0.395904    0.010375
 0.56337    0.001824    0.013931   -0.566650
 2.90E-05    0.633523    0.004533

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.001290    0.064259    0.090162
-1.09E-05    0.050316   -0.121833
 0.14084    0.001290    0.064259    0.090162
-1.09E-05    0.012508   -0.148779
 0.28169    0.001290    0.064259    0.090162
-1.09E-05   -0.025301   -0.175726
 0.42253    0.001290    0.064259    0.090162
-1.09E-05   -0.063110   -0.202673
 0.56337    0.001290    0.064259    0.090162
-1.09E-05   -0.100918   -0.229619

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.002144   -0.005504   -0.027420
 4.12E-06   -0.015226    0.001467
 0.14084    0.002144   -0.005504   -0.027420
 4.12E-06   -0.003728    0.003775
 0.28169    0.002144   -0.005504   -0.027420
 4.12E-06    0.007771    0.006083
 0.42253    0.002144   -0.005504   -0.027420
 4.12E-06    0.019269    0.008391
 0.56337    0.002144   -0.005504   -0.027420
 4.12E-06    0.030767    0.010699

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.000902   -0.006341    0.005353
-1.38E-06    0.002646    0.012814
 0.14084   -0.000902   -0.006341    0.005353
-1.38E-06    0.000401    0.015473
 0.28169   -0.000902   -0.006341    0.005353
-1.38E-06   -0.001844    0.018132
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  588

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
 0.42253   -0.000902   -0.006341    0.005353
-1.38E-06   -0.004089    0.020791
 0.56337   -0.000902   -0.006341    0.005353
-1.38E-06   -0.006334    0.023450

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.019782    0.155217   -0.631903
 3.59E-05   -0.352944   -0.203150
 0.14084   -0.019782    0.155217   -0.631903
 3.59E-05   -0.087961   -0.268238
 0.28169   -0.019782    0.155217   -0.631903
 3.59E-05    0.177022   -0.333327
 0.42253   -0.019782    0.155217   -0.631903
 3.59E-05    0.442005   -0.398416
 0.56337   -0.019782    0.155217   -0.631903
 3.59E-05    0.706988   -0.463505

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.019782   -0.155217    0.631903
-3.59E-05    0.352944    0.203150
 0.14084    0.019782   -0.155217    0.631903
-3.59E-05    0.087961    0.268238
 0.28169    0.019782   -0.155217    0.631903
-3.59E-05   -0.177022    0.333327
 0.42253    0.019782   -0.155217    0.631903
-3.59E-05   -0.442005    0.398416
 0.56337    0.019782   -0.155217    0.631903
-3.59E-05   -0.706988    0.463505

COMB   SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.019782    0.155217    0.631903
 3.59E-05    0.352944    0.312169    0.631903
 0.14084    0.019782    0.155217    0.631903
 3.59E-05    0.087961    0.401545    0.631903
 0.28169    0.019782    0.155217    0.631903
 3.59E-05    0.177022    0.490921    0.631903
 0.42253    0.019782    0.155217    0.631903
 3.59E-05    0.442005    0.580298    0.631903
 0.56337    0.019782    0.155217    0.631903
 3.59E-05    0.706988    0.669674

COMB   SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.023751   -0.213135   -0.631903
-3.59E-05   -0.352944   -0.232518
 0.14084   -0.023751   -0.213135   -0.631903
-3.59E-05   -0.087961   -0.294073
 0.28169   -0.023751   -0.213135   -0.631903
-3.59E-05   -0.177022   -0.355628
 0.42253   -0.023751   -0.213135   -0.631903
-3.59E-05   -0.442005   -0.417183
 0.56337   -0.023751   -0.213135   -0.631903
-3.59E-05   -0.706988   -0.478737

ELEM      298 ================== LENGTH =   2.977475

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43661   -0.014016    0.078470   -0.074367
-5.04E-06   -0.082874   -0.026066
 0.57746   -0.014016    0.078470   -0.074367
-5.04E-06   -0.051687   -0.058974
 0.71831   -0.014016    0.078470   -0.074367
-5.04E-06   -0.020500   -0.091882
 0.85915   -0.014016    0.078470   -0.074367
-5.04E-06    0.010688   -0.124790
 1.00000   -0.014016    0.078470   -0.074367
-5.04E-06    0.041875   -0.157697
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  589

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43661    0.001858    0.001932    0.578595
 5.89E-05    0.644898    0.092253
 0.57746    0.001858    0.001932    0.578595
 5.89E-05    0.402253    0.091443
 0.71831    0.001858    0.001932    0.578595
 5.89E-05    0.159609    0.090633
 0.85915    0.001858    0.001932    0.578595
 5.89E-05   -0.083036    0.089823
 1.00000    0.001858    0.001932    0.578595
 5.89E-05   -0.325680    0.089013

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43661    0.004144   -0.207292   -0.534884
-5.80E-05   -0.596498   -0.086666
 0.57746    0.004144   -0.207292   -0.534884
-5.80E-05   -0.372184    0.000266
 0.71831    0.004144   -0.207292   -0.534884
-5.80E-05   -0.147871    0.087198
 0.85915    0.004144   -0.207292   -0.534884
-5.80E-05    0.076443    0.174130
 1.00000    0.004144   -0.207292   -0.534884
-5.80E-05    0.300756    0.261062

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43661    0.008450    0.155410    0.039135
 5.06E-06    0.044455    0.038185
 0.57746    0.008450    0.155410    0.039135
 5.06E-06    0.028043   -0.026989
 0.71831    0.008450    0.155410    0.039135
 5.06E-06    0.011631   -0.092164
 0.85915    0.008450    0.155410    0.039135
 5.06E-06   -0.004781   -0.157338
 1.00000    0.008450    0.155410    0.039135
 5.06E-06   -0.021194   -0.222512

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43661   -0.001396   -0.015016   -0.014307
-4.51E-07   -0.010057   -0.012349
 0.57746   -0.001396   -0.015016   -0.014307
-4.51E-07   -0.010057   -0.006051
 0.71831   -0.001396   -0.015016   -0.014307
-4.51E-07   -0.004057    0.000246
 0.85915   -0.001396   -0.015016   -0.014307
-4.51E-07    0.001943    0.006543
 1.00000   -0.001396   -0.015016   -0.014307
-4.51E-07    0.007943    0.012841

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43661    0.000959   -0.013503    0.005828
-3.99E-07    0.006076   -0.005358
 0.57746    0.000959   -0.013503    0.005828
-3.99E-07    0.003632   -0.000305
 0.71831    0.000959   -0.013503    0.005828
-3.99E-07    0.001188    0.005968
 0.85915    0.000959   -0.013503    0.005828
-3.99E-07   -0.001256    0.011631
 1.00000    0.000959   -0.013503    0.005828
-3.99E-07   -0.003700    0.017294

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43661   -0.011267   -0.143838   -0.623558
-6.35E-05   -0.695429   -0.125080
 0.57746   -0.011267   -0.143838   -0.623558
-6.35E-05   -0.433928   -0.064759
 0.71831   -0.011267   -0.143838   -0.623558
-6.35E-05   -0.172428   -0.004438
 0.85915   -0.011267   -0.143838   -0.623558
-6.35E-05    0.089073    0.055883
 1.00000   -0.011267   -0.143838   -0.623558
-6.35E-05    0.350574    0.116205
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  590

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43661    0.011267    0.143838    0.623558
 6.35E-05    0.695429    0.125080
 0.57746    0.011267    0.143838    0.623558
 6.35E-05    0.433928    0.064759
 0.71831    0.011267    0.143838    0.623558
 6.35E-05    0.172428    0.004438
 0.85915    0.011267    0.143838    0.623558
 6.35E-05    0.089073   -0.055883
 1.00000    0.011267    0.143838    0.623558
 6.35E-05   -0.350574   -0.116205

COMB   SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2         M3
 0.43661    0.011267    0.155410    0.623558
 6.35E-05    0.695429    0.125080
 0.57746    0.011267    0.155410    0.623558
 6.35E-05    0.433928    0.091443
 0.71831    0.011267    0.155410    0.623558
 6.35E-05    0.172428    0.057457
 0.85915    0.011267    0.155410    0.623558
 6.35E-05    0.089073    0.174130
 1.00000    0.011267    0.155410    0.623558
 6.35E-05    0.350574    0.261062

COMB   SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2         M3
 0.43661   -0.014016   -0.207292   -0.623558
-6.35E-05   -0.695429   -0.125080
 0.57746   -0.014016   -0.207292   -0.623558
-6.35E-05   -0.433928   -0.064759
 0.71831   -0.014016   -0.207292   -0.623558
-6.35E-05   -0.172428   -0.092164
 0.85915   -0.014016   -0.207292   -0.623558
-6.35E-05   -0.089073   -0.157338
 1.00000   -0.014016   -0.207292   -0.623558
-6.35E-05   -0.350574   -0.222512

ELEM      299 ================== LENGTH =   2.977528

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.020126    0.081066   -0.071619
 7.71E-06   -0.039506   -0.153438
 0.14085   -0.020126    0.081066   -0.071619
 7.71E-06   -0.009470   -0.187436
 0.28170   -0.020126    0.081066   -0.071619
 7.71E-06    0.020566   -0.221433
 0.42255   -0.020126    0.081066   -0.071619
 7.71E-06    0.050601   -0.255431
 0.56340   -0.020126    0.081066   -0.071619
 7.71E-06    0.080637   -0.289428

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.006141   -0.003975    0.573071
-2.88E-05    0.320492    0.086134
 0.14085    0.006141   -0.003975    0.573071
-2.88E-05    0.080157    0.087801
 0.28170    0.006141   -0.003975    0.573071
-2.88E-05   -0.160179    0.089468
 0.42255    0.006141   -0.003975    0.573071
-2.88E-05   -0.400515    0.091135
 0.56340    0.006141   -0.003975    0.573071
-2.88E-05   -0.640851    0.092802

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.016250   -0.202637   -0.531200
 2.37E-05   -0.297130    0.253142
 0.14085    0.016250   -0.202637   -0.531200
 2.37E-05   -0.074354    0.338125
 0.28170    0.016250   -0.202637   -0.531200
 2.37E-05    0.148421    0.423107
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  591

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
 0.42255    0.016250   -0.202637   -0.531200
 2.37E-05    0.371197    0.508089
 0.56340    0.016250   -0.202637   -0.531200
 2.37E-05    0.593972    0.593071

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.004850    0.153693    0.041160
-3.57E-06    0.022834   -0.213999
 0.14085   -0.004850    0.153693    0.041160
-3.57E-06    0.010572   -0.278456
 0.28170   -0.004850    0.153693    0.041160
-3.57E-06   -0.011690   -0.342912
 0.42255   -0.004850    0.153693    0.041160
-3.57E-06   -0.028952   -0.407368
 0.56340   -0.004850    0.153693    0.041160
-3.57E-06   -0.046214   -0.471824

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.002208   -0.014619   -0.014002
 1.86E-06   -0.007672    0.010418
 0.14085    0.002208   -0.014619   -0.014002
 1.86E-06   -0.001800    0.016549
 0.28170    0.002208   -0.014619   -0.014002
 1.86E-06    0.004072    0.022680
 0.42255    0.002208   -0.014619   -0.014002
 1.86E-06    0.009944    0.028811
 0.56340    0.002208   -0.014619   -0.014002
 1.86E-06    0.015817    0.034942

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.000378   -0.013528    0.002589
-8.62E-07    0.000982    0.017744
 0.14085    0.000378   -0.013528    0.002589
-8.62E-07   -0.000104    0.023417
 0.28170    0.000378   -0.013528    0.002589
-8.62E-07   -0.001190    0.029091
 0.42255    0.000378   -0.013528    0.002589
-8.62E-07   -0.002275    0.034764
 0.56340    0.000378   -0.013528    0.002589
-8.62E-07   -0.003361    0.040437

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.001668   -0.136190   -0.616821
 3.32E-05   -0.344308    0.110122
 0.14085   -0.001668   -0.136190   -0.616821
 3.32E-05   -0.085625    0.167238
 0.28170   -0.001668   -0.136190   -0.616821
 3.32E-05    0.173059    0.224353
 0.42255   -0.001668   -0.136190   -0.616821
 3.32E-05    0.431742    0.281469
 0.56340   -0.001668   -0.136190   -0.616821
 3.32E-05    0.690426    0.338585

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.001668    0.136190    0.616821
-3.32E-05   -0.344308   -0.110122
 0.14085    0.001668    0.136190    0.616821
-3.32E-05    0.085625   -0.167238
 0.28170    0.001668    0.136190    0.616821
-3.32E-05   -0.173059   -0.224353
 0.42255    0.001668    0.136190    0.616821
-3.32E-05   -0.431742   -0.281469
 0.56340    0.001668    0.136190    0.616821
-3.32E-05   -0.690426   -0.338585

COMB   SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2         M3
 0.00000    0.016250    0.153693    0.616821
 3.32E-05    0.344308    0.253142
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  592

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
 0.14085    0.016250    0.153693    0.616821
 3.32E-05    0.085625    0.338125
 0.28170    0.016250    0.153693    0.616821
 3.32E-05    0.173059    0.423107
 0.42255    0.016250    0.153693    0.616821
 3.32E-05    0.431742    0.508089
 0.56340    0.016250    0.153693    0.616821
 3.32E-05    0.690426    0.593071

COMB   SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2         M3
 0.00000   -0.020126   -0.202637   -0.616821
-3.32E-05   -0.344308   -0.213999
 0.14085   -0.020126   -0.202637   -0.616821
-3.32E-05   -0.085625   -0.278456
 0.28170   -0.020126   -0.202637   -0.616821
-3.32E-05   -0.173059   -0.342912
 0.42255   -0.020126   -0.202637   -0.616821
-3.32E-05   -0.431742   -0.407368
 0.56340   -0.020126   -0.202637   -0.616821
-3.32E-05   -0.690426   -0.471824

ELEM      300 ================== LENGTH =   2.976770

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43672   -0.020511    0.035492   -0.097219
-3.43E-06   -0.108008   -0.039697
 0.57754   -0.020511    0.035492   -0.097219
-3.43E-06   -0.067254   -0.054574
 0.71836   -0.020511    0.035492   -0.097219
-3.43E-06   -0.026501   -0.069452
 0.85918   -0.020511    0.035492   -0.097219
-3.43E-06    0.014253   -0.084330
 1.00000   -0.020511    0.035492   -0.097219
-3.43E-06    0.055007   -0.099208

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43672   -0.013681    0.171665    0.582106
 5.48E-05    0.648244    0.198967
 0.57754   -0.013681    0.171665    0.582106
 5.48E-05    0.404230    0.127546
 0.71836   -0.013681    0.171665    0.582106
 5.48E-05    0.160215    0.055045
 0.85918   -0.013681    0.171665    0.582106
 5.48E-05   -0.083800   -0.016916
 1.00000   -0.013681    0.171665    0.582106
 5.48E-05   -0.327814   -0.088876

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43672    0.041618   -0.407457   -0.463352
-5.52E-05   -0.516332   -0.093923
 0.57754    0.041618   -0.407457   -0.463352
-5.52E-05   -0.322098   -0.068220
 0.71836    0.041618   -0.407457   -0.463352
-5.52E-05   -0.127865    0.102583
 0.85918    0.041618   -0.407457   -0.463352
-5.52E-05    0.066369    0.273386
 1.00000    0.041618   -0.407457   -0.463352
-5.52E-05    0.260603    0.444189

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43672   -0.010486    0.239758   -0.028654
 4.56E-06   -0.031223    0.109638
 0.57754   -0.010486    0.239758   -0.028654
 4.56E-06   -0.019212    0.009133
 0.71836   -0.010486    0.239758   -0.028654
 4.56E-06   -0.007200   -0.091371
 0.85918   -0.010486    0.239758   -0.028654
 4.56E-06    0.004811   -0.191876
 1.00000   -0.010486    0.239758   -0.028654
 4.56E-06    0.016823   -0.292381
Program   SAP2000   Nonlinear   Version   7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  593

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43672   -0.000354   -0.012146    0.003998
-7.13E-07    0.004420   -0.008411
 0.57754   -0.000354   -0.012146    0.003998
-7.13E-07    0.002744   -0.003319
 0.71836   -0.000354   -0.012146    0.003998
-7.13E-07    0.001068    0.001772
 0.85918   -0.000354   -0.012146    0.003998
-7.13E-07   -0.000608    0.006864
 1.00000   -0.000354   -0.012146    0.003998
-7.13E-07   -0.002284    0.011956

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T         M2         M3
 0.43672    0.003414   -0.027312    0.003121
-1.00E-07    0.002899   -0.021475
 0.57754    0.003414   -0.027312    0.003121
-1.00E-07    0.001591   -0.010026
 0.71836    0.003414   -0.027312    0.003121
-1.00E-07    0.000282    0.001423
 0.85918    0.003414   -0.027312    0.003121
-1.00E-07   -0.001026    0.012872
 1.00000    0.003414   -0.027312    0.003121
```

```
-1.00E-07   -0.002334    0.024321

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43672    0.020753   -0.384112   -0.556573
-5.93E-05   -0.619920   -0.287130
0.57754    0.020753   -0.384112   -0.556573
-5.93E-05   -0.386608   -0.126113
0.71836    0.020753   -0.384112   -0.556573
-5.93E-05   -0.153297    0.034903
0.85918    0.020753   -0.384112   -0.556573
-5.93E-05    0.080014    0.195920
1.00000    0.020753   -0.384112   -0.556573
-5.93E-05    0.313326    0.356937

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -0.020753    0.384112    0.556573
 5.93E-05    0.619920    0.287130
0.57754   -0.020753    0.384112    0.556573
 5.93E-05    0.386608    0.126113
0.71836   -0.020753    0.384112    0.556573
 5.93E-05    0.153297   -0.034903
0.85918   -0.020753    0.384112    0.556573
 5.93E-05   -0.080014   -0.195920
1.00000   -0.020753    0.384112    0.556573
 5.93E-05   -0.313326   -0.356937

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43672    0.041618    0.384112    0.582106
5.93E-05    0.648244    0.287130
0.57754    0.041618    0.384112    0.582106
5.93E-05    0.404230    0.127006
0.71836    0.041618    0.384112    0.582106
5.93E-05    0.160215    0.102583
0.85918    0.041618    0.384112    0.582106
5.93E-05    0.080014    0.273386
1.00000    0.041618    0.384112    0.582106
5.93E-05    0.313326    0.444189

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43672   -0.020753   -0.407457   -0.556573
-5.93E-05   -0.619920   -0.287130
0.57754   -0.020753   -0.407457   -0.556573
-5.93E-05   -0.386608   -0.126113
0.71836   -0.020753   -0.407457   -0.556573
-5.93E-05   -0.153297   -0.091371
0.85918   -0.020753   -0.407457   -0.556573
-5.93E-05   -0.083800   -0.195920
1.00000   -0.020753   -0.407457   -0.556573
-5.93E-05   -0.327814   -0.356937
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      594

F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

ELEM      301 ========== LENGTH =    2.977767

LOAD      -A1 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.023553    0.037335   -0.092027
 9.32E-06   -0.050634   -0.096841
0.14086   -0.023553    0.037335   -0.092027
 9.32E-06   -0.012034   -0.112501
0.28172   -0.023553    0.037335   -0.092027
 9.32E-06    0.026566   -0.128160
0.42257   -0.023553    0.037335   -0.092027
 9.32E-06    0.065166   -0.143820
0.56343   -0.023553    0.037335   -0.092027
 9.32E-06    0.103766   -0.159480

LOAD      -P1 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.020494    0.228437    0.574422
-2.76E-05    0.321160   -0.086702
0.14086   -0.020494    0.228437    0.574422
-2.76E-05    0.080223   -0.182518
0.28172   -0.020494    0.228437    0.574422
-2.76E-05   -0.160714   -0.278334
0.42257   -0.020494    0.228437    0.574422
-2.76E-05   -0.401650   -0.374150
0.56343   -0.020494    0.228437    0.574422
-2.76E-05   -0.642587   -0.469966

LOAD      -P2 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.069003   -0.544609   -0.459978
 1.41E-05   -0.257545    0.431102
0.14086    0.069003   -0.544609   -0.459978
 1.41E-05   -0.064611    0.659534
0.28172    0.069003   -0.544609   -0.459978
 1.41E-05    0.128323    0.887966
0.42257    0.069003   -0.544609   -0.459978
 1.41E-05    0.321257    1.116398
0.56343    0.069003   -0.544609   -0.459978
 1.41E-05    0.514191    1.344829

LOAD      -P3 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.033212    0.341999   -0.025532
 5.33E-06   -0.014250   -0.281259
0.14086   -0.033212    0.341999   -0.025532
 5.33E-06   -0.003541   -0.424707
0.28172   -0.033212    0.341999   -0.025532
 5.33E-06    0.007169   -0.568156
0.42257   -0.033212    0.341999   -0.025532
 5.33E-06    0.017878   -0.711604
0.56343   -0.033212    0.341999   -0.025532
 5.33E-06    0.028587   -0.855053

LOAD      -P4 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.005884   -0.041333    0.004288
-1.03E-06    0.002532    0.008794
0.14086    0.005884   -0.041333    0.004288
-1.03E-06    0.000734    0.026131
0.28172    0.005884   -0.041333    0.004288
-1.03E-06   -0.001064    0.043468
0.42257    0.005884   -0.041333    0.004288
-1.03E-06   -0.002863    0.060804
0.56343    0.005884   -0.041333    0.004288
-1.03E-06   -0.004661    0.078141

LOAD      -P5 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.002371   -0.021828   -0.001173
-1.09E-07   -0.001263    0.024905
0.14086    0.002371   -0.021828   -0.001173
-1.09E-07   -0.000771    0.034061
0.28172    0.002371   -0.021828   -0.001173
-1.09E-07   -0.000280    0.043217
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      595

F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.42257    0.002371   -0.021828   -0.001173
-1.09E-07    0.000212    0.052372
0.56343    0.002371   -0.021828   -0.001173
-1.09E-07    0.000704    0.061528

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.051335   -0.548607   -0.547718
 2.24E-05   -0.305647    0.343055
0.14086    0.051335   -0.548607   -0.547718
 2.24E-05   -0.075911    0.573164
0.28172    0.051335   -0.548607   -0.547718
 2.24E-05    0.153825    0.803273
0.42257    0.051335   -0.548607   -0.547718
 2.24E-05    0.383560    1.033382
0.56343    0.051335   -0.548607   -0.547718
 2.24E-05    0.613296    1.263491

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.051335    0.548607    0.547718
-2.24E-05    0.305647   -0.343055
0.14086   -0.051335    0.548607    0.547718
-2.24E-05    0.075911   -0.573164
0.28172   -0.051335    0.548607    0.547718
-2.24E-05   -0.153825   -0.803273
0.42257   -0.051335    0.548607    0.547718
-2.24E-05   -0.383560   -1.033382
0.56343   -0.051335    0.548607    0.547718
-2.24E-05   -0.613296   -1.263491

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.069003    0.548607    0.574422
2.24E-05    0.321160    0.431102
0.14086    0.069003    0.548607    0.574422
2.24E-05    0.080223    0.659534
0.28172    0.069003    0.548607    0.574422
2.24E-05    0.153825    0.887966
0.42257    0.069003    0.548607    0.574422
2.24E-05    0.383560    1.116398
0.56343    0.069003    0.548607    0.574422
2.24E-05    0.613296    1.344829

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.051335   -0.548607   -0.547718
-2.76E-05   -0.305647   -0.343055
0.14086   -0.051335   -0.548607   -0.547718
-2.76E-05   -0.075911   -0.573164
0.28172   -0.051335   -0.548607   -0.547718
-2.76E-05   -0.160714   -0.803273
0.42257   -0.051335   -0.548607   -0.547718
-2.76E-05   -0.401650   -1.033382
0.56343   -0.051335   -0.548607   -0.547718
-2.76E-05   -0.642587   -1.263491

ELEM      302 ========== LENGTH =    2.977084

LOAD      -A1 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43667   -0.030862    0.020979   -0.106221
-5.28E-06   -0.117676   -0.029986
0.57750   -0.030862    0.020979   -0.106221
-5.28E-06   -0.073140   -0.038782
0.71833   -0.030862    0.020979   -0.106221
-5.28E-06   -0.028605   -0.047578
0.85917   -0.030862    0.020979   -0.106221
-5.28E-06    0.015930   -0.056374
1.00000   -0.030862    0.020979   -0.106221
-5.28E-06    0.060466   -0.065170
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      596

F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43667   -0.030049    0.502654    0.552877
 5.56E-05    0.615541    0.543563
0.57750   -0.030049    0.502654    0.552877
 5.56E-05    0.383736    0.332815
0.71833   -0.030049    0.502654    0.552877
 5.56E-05    0.151931    0.122067
0.85917   -0.030049    0.502654    0.552877
 5.56E-05   -0.079874   -0.088682
1.00000   -0.030049    0.502654    0.552877
 5.56E-05   -0.311679   -0.299430

LOAD      -P2 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43667    0.099695   -1.018981   -0.365278
-5.27E-05   -0.407207   -0.920850
0.57750    0.099695   -1.018981   -0.365278
-5.27E-05   -0.254056   -0.493621
0.71833    0.099695   -1.018981   -0.365278
-5.27E-05    0.100906   -0.066392
0.85917    0.099695   -1.018981   -0.365278
-5.27E-05    0.052244    0.360837
1.00000    0.099695   -1.018981   -0.365278
-5.27E-05    0.205395    0.788066

LOAD      -P3 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43667   -0.050845    0.600661   -0.106471
 2.94E-06   -0.117829    0.513385
0.57750   -0.050845    0.600661   -0.106471
 2.94E-06   -0.073188    0.261545
0.71833   -0.050845    0.600661   -0.106471
 2.94E-06   -0.028548    0.009706
0.85917   -0.050845    0.600661   -0.106471
 2.94E-06    0.016092   -0.242134
1.00000   -0.050845    0.600661   -0.106471
 2.94E-06    0.060732   -0.493974

LOAD      -P4 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43667    0.006616   -0.071024    0.024978
-1.06E-06    0.027812   -0.071120
0.57750    0.006616   -0.071024    0.024978
-1.06E-06    0.017340   -0.041341
0.71833    0.006616   -0.071024    0.024978
-1.06E-06    0.006867   -0.011563
0.85917    0.006616   -0.071024    0.024978
-1.06E-06   -0.003605    0.018215
1.00000    0.006616   -0.071024    0.024978
-1.06E-06   -0.014078    0.047993

LOAD      -P5 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43667    0.005446   -0.034290    0.000116
 4.54E-07    0.000624   -0.034093
0.57750    0.005446   -0.034290    0.000116
 4.54E-07   -0.000691   -0.020616
0.71833    0.005446   -0.034290    0.000116
 4.54E-07   -0.000739   -0.006240
0.85917    0.005446   -0.034290    0.000116
 4.54E-07   -0.000788    0.008137
1.00000    0.005446   -0.034290    0.000116
 4.54E-07   -0.000836    0.022514

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43667    0.075448   -1.069025   -0.446521
-5.90E-05   -0.497071   -1.021955
0.57750    0.075448   -1.069025   -0.446521
-5.90E-05   -0.309857   -0.573744
0.71833    0.075448   -1.069025   -0.446521
-5.90E-05    0.122644    0.125533
0.85917    0.075448   -1.069025   -0.446521
-5.90E-05    0.064570    0.322679
1.00000    0.075448   -1.069025   -0.446521
-5.90E-05    0.251783    0.770890
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      597

F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43667   -0.075448    1.069025    0.446521
 5.90E-05    0.497071    1.021955
0.57750   -0.075448    1.069025    0.446521
 5.90E-05    0.309857    0.573744
0.71833   -0.075448    1.069025    0.446521
 5.90E-05    0.122644    0.125533
0.85917   -0.075448    1.069025    0.446521
 5.90E-05   -0.064570   -0.322679
1.00000   -0.075448    1.069025    0.446521
 5.90E-05   -0.251783   -0.770890

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.43667    0.099695    1.069025    0.552877
5.90E-05    0.615541    1.021955
0.57750    0.099695    1.069025    0.552877
5.90E-05    0.383736    0.573744
0.71833    0.099695    1.069025    0.552877
5.90E-05    0.151931    0.125533
0.85917    0.099695    1.069025    0.552877
5.90E-05    0.064570    0.369837
1.00000    0.099695    1.069025    0.552877
5.90E-05    0.251783    0.788066

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.43667   -0.075448   -1.069025   -0.446521
-5.90E-05   -0.497071   -1.021955
0.57750   -0.075448   -1.069025   -0.446521
-5.90E-05   -0.309857   -0.573744
0.71833   -0.075448   -1.069025   -0.446521
-5.90E-05   -0.122644   -0.125533
0.85917   -0.075448   -1.069025   -0.446521
-5.90E-05   -0.079874   -0.322679
1.00000   -0.075448   -1.069025   -0.446521
-5.90E-05   -0.311679   -0.770890

ELEM      303 ========== LENGTH =    2.977084

LOAD      -A1 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.029786    0.001486   -0.099115
 1.23E-05   -0.054418   -0.064732
0.14083   -0.029786    0.001486   -0.099115
 1.23E-05   -0.012862   -0.065355
0.28167   -0.029786    0.001486   -0.099115
 1.23E-05    0.028694   -0.065978
0.42250   -0.029786    0.001486   -0.099115
 1.23E-05    0.070251   -0.066601
0.56333   -0.029786    0.001486   -0.099115
 1.23E-05    0.111807   -0.067224

LOAD      -P1 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.039295    0.493589    0.545750
-3.00E-05    0.305146   -0.293623
0.14083   -0.039295    0.493589    0.545750
-3.00E-05    0.076328   -0.500570
0.28167   -0.039295    0.493589    0.545750
-3.00E-05   -0.152489   -0.707518
0.42250   -0.039295    0.493589    0.545750
-3.00E-05   -0.381306   -0.914465
0.56333   -0.039295    0.493589    0.545750
-3.00E-05   -0.610123   -1.121413

LOAD      -P2 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.118766   -0.931654   -0.363701
 7.37E-06   -0.203656    0.773222
0.14083    0.118766   -0.931654   -0.363701
 7.37E-06   -0.051166    1.163838
0.28167    0.118766   -0.931654   -0.363701
 7.37E-06    0.101323    1.554454
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      598

F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.42250    0.118766   -0.931654   -0.363701
 7.37E-06    0.253812    1.945069
0.56333    0.118766   -0.931654   -0.363701
 7.37E-06    0.406302    2.335685

LOAD      -P3 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.064945    0.524274   -0.102757
 1.36E-05   -0.057555   -0.482783
0.14083   -0.064945    0.524274   -0.102757
 1.36E-05   -0.014472   -0.702596
0.28167   -0.064945    0.524274   -0.102757
 1.36E-05    0.028610   -0.922409
0.42250   -0.064945    0.524274   -0.102757
 1.36E-05    0.071693   -1.142223
0.56333   -0.064945    0.524274   -0.102757
 1.36E-05    0.114776   -1.362036

LOAD      -P4 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.010353   -0.049465    0.025394
-3.99E-06    0.014411    0.044818
0.14083    0.010353   -0.049465    0.025394
-3.99E-06    0.003763    0.065557
0.28167    0.010353   -0.049465    0.025394
-3.99E-06   -0.006884    0.086297
0.42250    0.010353   -0.049465    0.025394
-3.99E-06   -0.017531    0.107036
0.56333    0.010353   -0.049465    0.025394
-3.99E-06   -0.028178    0.127776

LOAD      -P5 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.004906   -0.038230   -0.005571
 7.91E-07   -0.003927    0.023098
0.14083    0.004906   -0.038230   -0.005571
 7.91E-07   -0.001591    0.039126
0.28167    0.004906   -0.038230   -0.005571
 7.91E-07    0.000745    0.055155
0.42250    0.004906   -0.038230   -0.005571
 7.91E-07    0.003080    0.071183
0.56333    0.004906   -0.038230   -0.005571
 7.91E-07    0.005416    0.087212

LOAD  -2N+1- --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.099333   -0.979634   -0.437422
 1.57E-05   -0.243663    0.753308
0.14083    0.099333   -0.979634   -0.437422
 1.57E-05   -0.060265    1.164041
0.28167    0.099333   -0.979634   -0.437422
 1.57E-05    0.123134    1.574773
0.42250    0.099333   -0.979634   -0.437422
 1.57E-05    0.306532    1.985505
0.56333    0.099333   -0.979634   -0.437422
 1.57E-05    0.489930    2.396237

LOAD  -2N+2- --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.099333    0.979634    0.437422
-1.57E-05    0.243663   -0.753308
0.14083   -0.099333    0.979634    0.437422
-1.57E-05    0.060265   -1.164041
0.28167   -0.099333    0.979634    0.437422
-1.57E-05   -0.123134   -1.574773
0.42250   -0.099333    0.979634    0.437422
-1.57E-05   -0.306532   -1.985505
0.56333   -0.099333    0.979634    0.437422
-1.57E-05   -0.489930   -2.396237

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
         T         M2         M3
0.00000    0.118766    0.979634    0.545750
1.57E-05    0.305146    0.773222
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      599

F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

REL DIST          P          V2          V3
         T         M2         M3
0.14083    0.118766    0.979634    0.545750
1.57E-05    0.076328    1.164041
0.28167    0.118766    0.979634    0.545750
1.57E-05    0.123134    1.574773
0.42250    0.118766    0.979634    0.545750
1.57E-05    0.306532    1.985505
0.56333    0.118766    0.979634    0.545750
1.57E-05    0.489930    2.396237

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
         T         M2         M3
0.00000   -0.099333   -0.979634   -0.437422
-3.00E-05   -0.243663   -0.753308
0.14083   -0.099333   -0.979634   -0.437422
-3.00E-05   -0.060265   -1.164041
0.28167   -0.099333   -0.979634   -0.437422
-3.00E-05   -0.152489   -1.574773
0.42250   -0.099333   -0.979634   -0.437422
-3.00E-05   -0.381306   -1.985505
0.56333   -0.099333   -0.979634   -0.437422
-3.00E-05   -0.610123   -2.396237

ELEM      304 ========== LENGTH =    2.977474

LOAD      -A1 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43661   -0.040313   -0.017906   -0.103151
-3.81E-06   -0.114169   -0.056116
0.57746   -0.040313   -0.017906   -0.103151
-3.81E-06   -0.070911   -0.048607
0.71831   -0.040313   -0.017906   -0.103151
-3.81E-06   -0.027653   -0.041098
0.85915   -0.040313   -0.017906   -0.103151
-3.81E-06    0.015605   -0.033588
1.00000   -0.040313   -0.017906   -0.103151
-3.81E-06    0.058864   -0.026079

LOAD      -P1 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43661   -0.007749    0.860121    0.495395
 4.65E-05    0.552570    1.030367
0.57746   -0.007749    0.860121    0.495395
 4.65E-05    0.344817    0.669659
0.71831   -0.007749    0.860121    0.495395
 4.65E-05    0.137064    0.308952
0.85915   -0.007749    0.860121    0.495395
 4.65E-05   -0.070690   -0.051756
1.00000   -0.007749    0.860121    0.495395
 4.65E-05   -0.278443   -0.412464

LOAD      -P2 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43661    0.075969   -1.568007   -0.246550
-4.00E-05   -0.275387   -1.727148
0.57746    0.075969   -1.568007   -0.246550
-4.00E-05   -0.171992   -1.407575
0.71831    0.075969   -1.568007   -0.246550
-4.00E-05   -0.068597   -0.412002
0.85915    0.075969   -1.568007   -0.246550
-4.00E-05    0.034798    0.245571
1.00000    0.075969   -1.568007   -0.246550
-4.00E-05    0.138194    0.903144

LOAD      -P3 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43661   -0.041557    0.854580   -0.190278
-3.06E-06   -0.211829    0.904401
0.57746   -0.041557    0.854580   -0.190278
-3.06E-06   -0.132033    0.546018
0.71831   -0.041557    0.854580   -0.190278
-3.06E-06   -0.052236    0.187634
0.85915   -0.041557    0.854580   -0.190278
-3.06E-06    0.027561   -0.170750
1.00000   -0.041557    0.854580   -0.190278
-3.06E-06    0.107357   -0.529134
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      600

F R A M E  E L E M E N T  I N T E R N A L  F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
         T         M2         M3
0.43661    0.007864   -0.075299    0.047527
-7.90E-07    0.053145   -0.084269
0.57746    0.007864   -0.075299    0.047527
-7.90E-07    0.033214   -0.052691
0.71831    0.007864   -0.075299    0.047527
-7.90E-07    0.013283   -0.021112
0.85915    0.007864   -0.075299    0.047527
-7.90E-07   -0.006649    0.010466
1.00000    0.007864   -0.075299    0.047527
-7.90E-07   -0.026580    0.042044

LOAD      -P5 --------------------
```

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.005786	-0.053488	-0.002943
1.21E-06	-0.004329	-0.067236	
0.57746	0.005786	-0.053488	-0.002943
1.21E-06	-0.003095	-0.044805	
0.71831	0.005786	-0.053488	-0.002943
1.21E-06	-0.001860	-0.022373	
0.85915	0.005786	-0.053488	-0.002943
1.21E-06	-0.000626	5.77E-05	
1.00000	0.005786	-0.053488	-0.002943
1.21E-06	0.000608	0.022489	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.043520	-1.661212	-0.302174
-4.46E-05	-0.336412	-1.867533	
0.57746	0.043520	-1.661212	-0.302174
-4.46E-05	-0.209689	-1.170872	
0.71831	0.043520	-1.661212	-0.302174
-4.46E-05	-0.082967	-0.474212	
0.85915	0.043520	-1.661212	-0.302174
-4.46E-05	0.043755	0.222448	
1.00000	0.043520	-1.661212	-0.302174
-4.46E-05	0.170477	0.919109	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.043520	1.661212	0.302174
4.46E-05	0.336412	1.867533	
0.57746	-0.043520	1.661212	0.302174
4.46E-05	0.209689	1.170872	
0.71831	-0.043520	1.661212	0.302174
4.46E-05	0.082967	0.474212	
0.8595	-0.043520	1.661212	0.302174
4.46E-05	-0.043755	-0.222448	
1.00000	-0.043520	1.661212	0.302174
4.46E-05	-0.170477	-0.919109	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.075969	1.661212	0.495395
4.65E-05	0.552570	1.867533	
0.57746	0.075969	1.661212	0.495395
4.65E-05	0.344817	1.170872	
0.71831	0.075969	1.661212	0.495395
4.65E-05	0.137064	0.474212	
0.85915	0.075969	1.661212	0.495395
4.65E-05	0.043755	0.245571	
1.00000	0.075969	1.661212	0.495395
4.65E-05	0.170477	0.919109	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.043520	-1.661212	-0.302174
-4.46E-05	-0.336412	-1.867533	
0.57746	-0.043520	-1.661212	-0.302174
-4.46E-05	-0.209689	-1.170872	
0.71831	-0.043520	-1.661212	-0.302174
-4.46E-05	-0.082967	-0.474212	
0.85915	-0.043520	-1.661212	-0.302174
-4.46E-05	-0.070690	-0.222448	
1.00000	-0.043520	-1.661212	-0.302174
-4.46E-05	-0.278443	-0.919109	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
601

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 305 ========== LENGTH = 2.976477

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.036646	-0.029714	-0.094177
9.98E-06	-0.051188	-0.027042	
0.14081	-0.036646	-0.029714	-0.094177
9.98E-06	-0.017717	-0.014588	
0.28162	-0.036646	-0.029714	-0.094177
9.98E-06	0.027755	-0.002135	
0.42243	-0.036646	-0.029714	-0.094177
9.98E-06	0.067226	0.010319	
0.56324	-0.036646	-0.029714	-0.094177
9.98E-06	0.106697	0.022773	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.030505	0.925644	0.488076
-2.39E-05	-0.271576	-0.791178	
0.14081	-0.030505	0.925644	0.488076
-2.39E-05	0.067013	-0.791133	
0.28162	-0.030505	0.925644	0.488076
-2.39E-05	-0.137549	-1.179088	
0.42243	-0.030505	0.925644	0.488076
-2.39E-05	-0.342111	-1.567043	
0.56324	-0.030505	0.925644	0.488076
-2.39E-05	-0.546673	-1.954998	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.112751	-1.679529	-0.244586
-2.77E-06	-0.136275	0.885101	
0.14081	0.112751	-1.679529	-0.244586
-2.77E-06	-0.033764	1.589024	
0.28162	0.112751	-1.679529	-0.244586
-2.77E-06	0.068746	2.292947	
0.42243	0.112751	-1.679529	-0.244586
-2.77E-06	0.171257	2.996869	
0.56324	0.112751	-1.679529	-0.244586
-2.77E-06	0.273768	3.700792	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.064516	0.929841	-0.187236
2.21E-05	-0.104425	-0.516489	
0.14081	-0.064516	0.929841	-0.187236
2.21E-05	-0.025951	-0.906203	
0.28162	-0.064516	0.929841	-0.187236
2.21E-05	0.052523	-1.295917	
0.42243	-0.064516	0.929841	-0.187236
2.21E-05	0.130997	-1.685632	
0.56324	-0.064516	0.929841	-0.187236
2.21E-05	0.209472	-2.075346	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.014131	-0.097164	0.048380
-7.46E-06	0.027216	0.038465	
0.14081	0.014131	-0.097164	0.048380
-7.46E-06	0.006939	0.079188	
0.28162	0.014131	-0.097164	0.048380
-7.46E-06	-0.013338	0.119911	
0.42243	0.014131	-0.097164	0.048380
-7.46E-06	-0.033615	0.160635	
0.56324	0.014131	-0.097164	0.048380
-7.46E-06	-0.053892	0.201358	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.004786	-0.049078	-0.010457
2.02E-06	-0.006903	0.023143	
0.14081	0.004786	-0.049078	-0.010457
2.02E-06	-0.002520	0.043712	
0.28162	0.004786	-0.049078	-0.010457
2.02E-06	0.001863	0.064282	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
602

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42243	0.004786	-0.049078	-0.010457
2.02E-06	0.006246	0.084851	
0.56324	0.004786	-0.049078	-0.010457
2.02E-06	0.010628	0.105420	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.090236	-1.806407	-0.290383
-2.51E-07	-0.160247	0.896523	
0.14081	0.090236	-1.806407	-0.290383
-2.51E-07	-0.038542	1.653623	
0.28162	0.090236	-1.806407	-0.290383
-2.51E-07	0.083163	2.410723	
0.42243	0.090236	-1.806407	-0.290383
-2.51E-07	0.204868	3.167823	
0.56324	0.090236	-1.806407	-0.290383
-2.51E-07	0.326573	3.924923	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.090236	1.806407	0.290383
2.51E-07	0.160247	-0.896523	
0.14081	-0.090236	1.806407	0.290383
2.51E-07	0.038542	-1.653623	
0.28162	-0.090236	1.806407	0.290383
2.51E-07	-0.083163	-2.410723	
0.42243	-0.090236	1.806407	0.290383
2.51E-07	-0.204868	-3.167823	
0.56324	-0.090236	1.806407	0.290383
2.51E-07	-0.326573	-3.924923	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.112751	1.806407	0.488076
2.21E-05	0.271576	0.896523	
0.14081	0.112751	1.806407	0.488076
2.21E-05	0.067013	1.653623	
0.28162	0.112751	1.806407	0.488076
2.21E-05	0.083163	2.410723	
0.42243	0.112751	1.806407	0.488076
2.21E-05	0.204868	3.167823	
0.56324	0.112751	1.806407	0.488076
2.21E-05	0.326573	3.924923	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.090236	-1.806407	-0.290383
-2.39E-05	-0.160247	-0.896523	
0.14081	-0.090236	-1.806407	-0.290383
-2.39E-05	-0.038542	-1.653623	
0.28162	-0.090236	-1.806407	-0.290383
-2.39E-05	-0.137549	-2.410723	
0.42243	-0.090236	-1.806407	-0.290383
-2.39E-05	-0.342111	-3.167823	
0.56324	-0.090236	-1.806407	-0.290383
-2.39E-05	-0.546673	-3.924923	

ELEM 306 ========== LENGTH = 2.977940

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.036983	-0.079247	-0.097458
-4.45E-06	-0.104010	-0.127931	
0.57741	-0.036983	-0.079247	-0.097458
-4.45E-06	-0.063128	-0.094688	
0.71827	-0.036983	-0.079247	-0.097458
-4.45E-06	-0.022246	-0.061445	
0.85914	-0.036983	-0.079247	-0.097458
-4.45E-06	0.018636	-0.028202	
1.00000	-0.036983	-0.079247	-0.097458
-4.45E-06	0.059518	0.005041	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
603

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.039545	1.299190	0.447069
3.44E-05	0.481930	1.693751	
0.57741	0.039545	1.299190	0.447069
3.44E-05	0.294391	1.148760	
0.71827	0.039545	1.299190	0.447069
3.44E-05	0.106853	0.603770	
0.85914	0.039545	1.299190	0.447069
3.44E-05	-0.080686	0.058779	
1.00000	0.039545	1.299190	0.447069
3.44E-05	-0.268225	-0.486212	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.4365	-0.071715	-2.330913	-0.117938
-1.95E-05	-0.126716	-2.923331	
0.57741	-0.071715	-2.330913	-0.117938
-1.95E-05	-0.077243	-1.945548	
0.71827	-0.071715	-2.330913	-0.117938
-1.95E-05	-0.027770	-0.967765	
0.85914	-0.071715	-2.330913	-0.117938
-1.95E-05	0.021703	0.010018	
1.00000	-0.071715	-2.330913	-0.117938
-1.95E-05	0.071177	0.987802	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.074851	1.274206	-0.302012
-1.23E-05	-0.326245	1.572094	
0.57741	0.074851	1.274206	-0.302012
-1.23E-05	-0.199555	1.037583	
0.71827	0.074851	1.274206	-0.302012
-1.23E-05	-0.072866	0.503073	
0.85914	0.074851	1.274206	-0.302012
-1.23E-05	0.053824	-0.031438	
1.00000	0.074851	1.274206	-0.302012
-1.23E-05	0.180514	-0.565949	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.003415	-0.118954	0.077144
-7.78E-07	0.083611	-0.146082	
0.57741	-0.003415	-0.118954	0.077144
-7.78E-07	0.051251	-0.096183	
0.71827	-0.003415	-0.118954	0.077144
-7.78E-07	0.018890	-0.046284	
0.85914	-0.003415	-0.118954	0.077144
-7.78E-07	-0.013470	0.003616	
1.00000	-0.003415	-0.118954	0.077144
-7.78E-07	-0.045831	0.053515	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.002284	-0.044283	-0.006805
2.64E-06	-0.008571	-0.068501	
0.57741	-0.002284	-0.044283	-0.006805
2.64E-06	-0.005716	-0.049925	
0.71827	-0.002284	-0.044283	-0.006805
2.64E-06	-0.002862	-0.031349	
0.85914	-0.002284	-0.044283	-0.006805
2.64E-06	-7.25E-06	-0.012773	
1.00000	-0.002284	-0.044283	-0.006805
2.64E-06	0.002847	0.005803	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.112112	-2.529114	-0.138252
-2.47E-05	-0.147115	-3.197345	
0.57741	-0.112112	-2.529114	-0.138252
-2.47E-05	-0.089120	-2.136419	
0.71827	-0.112112	-2.529114	-0.138252
-2.47E-05	-0.031125	-1.075493	
0.85914	-0.112112	-2.529114	-0.138252
-2.47E-05	0.026869	-0.014567	
1.00000	-0.112112	-2.529114	-0.138252
-2.47E-05	0.084864	1.046358	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
604

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.112112	2.529114	0.138252
2.47E-05	0.147115	3.197345	
0.57741	0.112112	2.529114	0.138252
2.47E-05	0.089120	2.136419	
0.71827	0.112112	2.529114	0.138252
2.47E-05	0.031125	1.075493	
0.85914	0.112112	2.529114	0.138252
2.47E-05	-0.026869	0.014567	
1.00000	0.112112	2.529114	0.138252
2.47E-05	-0.084864	-1.046358	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.112112	2.529114	0.447069
3.44E-05	0.481930	3.197345	
0.57741	0.112112	2.529114	0.447069
3.44E-05	0.294391	2.136419	
0.71827	0.112112	2.529114	0.447069
3.44E-05	0.106853	1.075493	
0.85914	0.112112	2.529114	0.447069
3.44E-05	0.053824	0.058779	
1.00000	0.112112	2.529114	0.447069
3.44E-05	0.180514	1.046358	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.112112	-2.529114	-0.302012
-2.47E-05	-0.326245	-3.197345	
0.57741	-0.112112	-2.529114	-0.302012
-2.47E-05	-0.199555	-2.136419	
0.71827	-0.112112	-2.529114	-0.302012
-2.47E-05	-0.072866	-1.075493	
0.85914	-0.112112	-2.529114	-0.302012
-2.47E-05	-0.080686	-0.031438	
1.00000	-0.112112	-2.529114	-0.302012
-2.47E-05	-0.268225	-1.046358	

ELEM 307 ========== LENGTH = 2.976943

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.048569	-0.096029	-0.086296
8.29E-06	-0.050007	0.003179	
0.14083	-0.048569	-0.096029	-0.086296
8.29E-06	-0.008629	0.044437	
0.28166	-0.048569	-0.096029	-0.086296
8.29E-06	0.022350	0.083696	
0.42248	-0.048569	-0.096029	-0.086296
8.29E-06	0.058528	0.123955	
0.56331	-0.048569	-0.096029	-0.086296
8.29E-06	0.094706	0.164213	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.096112	1.354978	0.438457
-2.07E-05	0.260473	-0.475895	
0.14083	0.096112	1.354978	0.438457
-2.07E-05	0.076657	-1.043950	
0.28166	0.096112	1.354978	0.438457
-2.07E-05	-0.107160	-1.612005	
0.42248	0.096112	1.354978	0.438457
-2.07E-05	-0.290977	-2.180060	
0.56331	0.096112	1.354978	0.438457
-2.07E-05	-0.474794	-2.748115	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.052838	-2.395595	-0.114488
-6.70E-06	-0.068418	0.970498	
0.14083	-0.052838	-2.395595	-0.114488
-6.70E-06	-0.020420	1.974817	
0.28166	-0.052838	-2.395595	-0.114488
-6.70E-06	0.027577	2.979136	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
605

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42248	-0.052838	-2.395595	-0.114488
-6.70E-06	0.075574	3.983455	
0.56331	-0.052838	-2.395595	-0.114488
-6.70E-06	0.123571	4.987774	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.007266	1.308231	-0.299606
2.60E-05	-0.177841	-0.554441	
0.14083	-0.007266	1.308231	-0.299606
2.60E-05	-0.052236	-1.102898	
0.28166	-0.007266	1.308231	-0.299606
2.60E-05	0.073370	-1.651355	
0.42248	-0.007266	1.308231	-0.299606
2.60E-05	0.198975	-2.199812	
0.56331	-0.007266	1.308231	-0.299606
2.60E-05	0.324581	-2.748269	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.017950	-0.126869	0.078583
-1.02E-05	0.046905	0.050277	
0.14083	0.017950	-0.126869	0.078583
-1.02E-05	0.013960	0.103465	
0.28166	0.017950	-0.126869	0.078583
-1.02E-05	-0.018985	0.156654	
0.42248	0.017950	-0.126869	0.078583
-1.02E-05	-0.051929	0.209842	
0.56331	0.017950	-0.126869	0.078583
-1.02E-05	-0.084874	0.263030	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.005389	-0.044716	-0.016651
3.26E-06	-0.011112	0.006382	
0.14083	-0.005389	-0.044716	-0.016651
3.26E-06	-0.004132	0.025129	
0.28166	-0.005389	-0.044716	-0.016651
3.26E-06	0.002849	0.043875	
0.42248	-0.005389	-0.044716	-0.016651
3.26E-06	0.009829	0.062621	
0.56331	-0.005389	-0.044716	-0.016651
3.26E-06	0.016810	0.081368	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.083457	-2.618493	-0.122201
-8.63E-06	-0.071520	1.023954	
0.14083	-0.083457	-2.618493	-0.122201
-8.63E-06	-0.020289	2.121719	
0.28166	-0.083457	-2.618493	-0.122201
-8.63E-06	0.030942	3.219485	
0.42248	-0.083457	-2.618493	-0.122201
-8.63E-06	0.082172	4.317251	
0.56331	-0.083457	-2.618493	-0.122201
-8.63E-06	0.133403	5.415017	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.083457	2.618493	0.122201
8.63E-06	0.071520	-1.023954	
0.14083	0.083457	2.618493	0.122201
8.63E-06	0.020289	-2.121719	
0.28166	0.083457	2.618493	0.122201
8.63E-06	-0.030942	-3.219485	
0.42248	0.083457	2.618493	0.122201
8.63E-06	-0.082172	-4.317251	
0.56331	0.083457	2.618493	0.122201
8.63E-06	-0.133403	-5.415017	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.096112	2.618493	0.438457
2.60E-05	0.260473	1.023954	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
606

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14083	0.096112	2.618493	0.438457
2.60E-05	0.076657	2.121719	
0.28166	0.096112	2.618493	0.438457
2.60E-05	0.073370	3.219485	
0.42248	0.096112	2.618493	0.438457
2.60E-05	0.198975	4.317251	
0.56331	0.096112	2.618493	0.438457
2.60E-05	0.324581	5.415017	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.083457	-2.618493	-0.299606
-2.07E-05	-0.177841	-1.023954	
0.14083	-0.083457	-2.618493	-0.299606
-2.07E-05	-0.052236	-2.121719	
0.28166	-0.083457	-2.618493	-0.299606
-2.07E-05	-0.107160	-3.219485	
0.42248	-0.083457	-2.618493	-0.299606
-2.07E-05	-0.290977	-4.317251	
0.56331	-0.083457	-2.618493	-0.299606
-2.07E-05	-0.474794	-5.415017	

ELEM 308 ========== LENGTH = 2.977599

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-0.034651	-0.145127	-0.089493
-3.60E-06	-0.092469	-0.220936	
0.57745	-0.034651	-0.145127	-0.089493
-3.60E-06	-0.054936	-0.160070	
0.71830	-0.034651	-0.145127	-0.089493
-3.60E-06	-0.017403	-0.099204	
0.85915	-0.034651	-0.145127	-0.089493
-3.60E-06	0.020131	-0.038337	
1.00000	-0.034651	-0.145127	-0.089493
-3.60E-06	0.057664	0.022529	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.127353	1.595635	0.403399
2.20E-05	0.422159	2.184897	
0.57745	0.127353	1.595635	0.403399
2.20E-05	0.252973	1.515688	
0.71830	0.127353	1.595635	0.403399
2.20E-05	0.083788	0.846480	
0.85915	0.127353	1.595635	0.403399
2.20E-05	-0.085397	0.177271	
1.00000	0.127353	1.595635	0.403399
2.20E-05	-0.254582	-0.491938	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	-0.181307	-2.889169	-0.007352
-7.33E-07	-0.007621	-3.889904	
0.57745	-0.181307	-2.889169	-0.007352
-7.33E-07	-0.004537	-2.678188	
0.71830	-0.181307	-2.889169	-0.007352
-7.33E-07	-0.001454	-1.466472	
0.85915	-0.181307	-2.889169	-0.007352
-7.33E-07	0.001630	-0.254755	
1.00000	-0.181307	-2.889169	-0.007352
-7.33E-07	0.004713	0.956961	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43659	0.109201	1.586845	-0.398944
-2.04E-05	-0.417843	2.138981	
0.57745	0.109201	1.586845	-0.398944
-2.04E-05	-0.250526	1.473459	
0.71830	0.109201	1.586845	-0.398944
-2.04E-05	-0.083210	0.807937	
0.85915	0.109201	1.586845	-0.398944
-2.04E-05	0.084107	0.142414	
1.00000	0.109201	1.586845	-0.398944
-2.04E-05	0.251424	-0.523108	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
607

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	

0.43659 -0.001888 -0.164802 0.102196
-4.19E-07 0.107371 -0.231065
0.57745 -0.001888 -0.164802 0.102196
-4.19E-07 0.064510 -0.161947
0.71830 -0.001888 -0.164802 0.102196
-4.19E-07 0.021649 -0.092829
0.85915 -0.001888 -0.164802 0.102196
-4.19E-07 -0.021212 -0.023711
1.00000 -0.001888 -0.164802 0.102196
-4.19E-07 -0.064073 0.045407

LOAD -P5 ------------------

REL DIST P V2 V3
T M2 M3
0.43659 -0.018708 0.016618 -0.009806
3.14E-06 -0.011596 0.018027
0.57745 -0.018708 0.016618 -0.009806
3.14E-06 -0.007484 0.011058
0.71830 -0.018708 0.016618 -0.009806
3.14E-06 -0.003371 0.004088
0.85915 -0.018708 0.016618 -0.009806
3.14E-06 0.000741 -0.002882
1.00000 -0.018708 0.016618 -0.009806
3.14E-06 0.004854 -0.009851

LOAD -2N+1- ------------------

REL DIST P V2 V3
T M2 M3
0.43659 -0.217846 -3.199098 0.005351
-4.75E-06 0.007281 -4.341905
0.57745 -0.217846 -3.199098 0.005351
-4.75E-06 0.005037 -3.000205
0.71830 -0.217846 -3.199098 0.005351
-4.75E-06 0.002793 -1.658504
0.85915 -0.217846 -3.199098 0.005351
-4.75E-06 0.000548 -0.316804
1.00000 -0.217846 -3.199098 0.005351
-4.75E-06 -0.001696 1.024897

LOAD -2N+2- ------------------

REL DIST P V2 V3
T M2 M3
0.43659 0.217846 3.199098 -0.005351
4.75E-06 -0.007281 4.341905
0.57745 0.217846 3.199098 -0.005351
4.75E-06 -0.005037 3.000205
0.71830 0.217846 3.199098 -0.005351
4.75E-06 -0.002793 1.658504
0.85915 0.217846 3.199098 -0.005351
4.75E-06 -0.000548 0.316804
1.00000 0.217846 3.199098 -0.005351
4.75E-06 0.001696 -1.024897

COMB SETTLE ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.43659 0.217846 3.199098 0.403399
2.20E-05 0.422159 4.341905
0.57745 0.217846 3.199098 0.403399
2.20E-05 0.252973 3.000205
0.71830 0.217846 3.199098 0.403399
2.20E-05 0.083788 1.658504
0.85915 0.217846 3.199098 0.403399
2.20E-05 0.084107 0.316804
1.00000 0.217846 3.199098 0.403399
2.20E-05 0.251424 1.024897

COMB SETTLE ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.43659 -0.217846 -3.199098 -0.398944
-2.04E-05 -0.417843 -4.341905
0.57745 -0.217846 -3.199098 -0.398944
-2.04E-05 -0.250526 -3.000205
0.71830 -0.217846 -3.199098 -0.398944
-2.04E-05 -0.083210 -1.658504
0.85915 -0.217846 -3.199098 -0.398944
-2.04E-05 -0.085397 -0.316804
1.00000 -0.217846 -3.199098 -0.398944
-2.04E-05 -0.254582 -1.024897
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
608

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 309 ========== LENGTH = 2.976630

LOAD -A1 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.027361 -0.166484 -0.076822
5.60E-06 -0.046863 0.020856
0.14082 -0.027361 -0.166484 -0.076822
5.60E-06 -0.014663 0.090639
0.28169 -0.027361 -0.166484 -0.076822
5.60E-06 0.017538 0.160422
0.42245 -0.027361 -0.166484 -0.076822
5.60E-06 0.049738 0.230205
0.56326 -0.027361 -0.166484 -0.076822
5.60E-06 0.081938 0.299988

LOAD -P1 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.099048 1.597705 0.395987
-2.18E-05 0.247758 -0.484080
0.14082 0.099048 1.597705 0.395987
-2.18E-05 0.081776 -1.153770
0.28163 0.099048 1.597705 0.395987
-2.18E-05 -0.084205 -1.823460
0.42245 0.099048 1.597705 0.395987
-2.18E-05 -0.250186 -2.493150
0.56326 0.099048 1.597705 0.395987
-2.18E-05 -0.416167 -3.162840

LOAD -P2 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.139648 -2.849358 -0.006557
5.25E-07 0.044599 -0.044599
0.14082 -0.139648 -2.849358 -0.006557
5.25E-07 -0.001281 2.138929
0.28163 -0.139648 -2.849358 -0.006557
5.25E-07 0.001467 3.333259
0.42245 -0.139648 -2.849358 -0.006557
5.25E-07 0.004216 4.527589
0.56326 -0.139648 -2.849358 -0.006557
5.25E-07 0.006964 5.721919

LOAD -P3 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.080901 1.588415 -0.394829
2.24E-05 -0.247382 -0.515088
0.14082 0.080901 1.588415 -0.394829
2.24E-05 -0.081886 -1.180884
0.28163 0.080901 1.588415 -0.394829
2.24E-05 0.083609 -1.846680
0.42245 0.080901 1.588415 -0.394829
2.24E-05 0.249105 -2.512477
0.56326 0.080901 1.588415 -0.394829
2.24E-05 0.414600 -3.178273

LOAD -P4 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.006978 -0.192243 0.104052
-1.15E-05 0.065476 0.043142
0.14082 0.006978 -0.192243 0.104052
-1.15E-05 0.021862 0.123722
0.28163 0.006978 -0.192243 0.104052
-1.15E-05 -0.021752 0.204303
0.42245 0.006978 -0.192243 0.104052
-1.15E-05 -0.065367 0.284883
0.56326 0.006978 -0.192243 0.104052
-1.15E-05 -0.108981 0.365463

LOAD -P5 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.019919 0.021965 -0.021832
4.85E-06 -0.014960 -0.009430
0.14082 -0.019919 0.021965 -0.021832
4.85E-06 -0.005808 -0.018637
0.28163 -0.019919 0.021965 -0.021832
4.85E-06 0.003343 -0.027844
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
609

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42245 -0.019919 0.021965 -0.021832
4.85E-06 0.012494 -0.037051
0.56326 -0.019919 0.021965 -0.021832
4.85E-06 0.021645 -0.046257

LOAD -2N+1- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.160030 -3.208085 0.020674
-5.41E-06 0.014584 1.008598
0.14082 -0.160030 -3.208085 0.020674
-5.41E-06 0.005918 2.353291
0.28163 -0.160030 -3.208085 0.020674
-5.41E-06 -0.002747 3.697984
0.42245 -0.160030 -3.208085 0.020674
-5.41E-06 -0.011413 5.042677
0.56326 -0.160030 -3.208085 0.020674
-5.41E-06 -0.020079 6.387370

LOAD -2N+2- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.160030 3.208085 -0.020674
5.41E-06 -0.014584 -1.008598
0.14082 0.160030 3.208085 -0.020674
5.41E-06 -0.005918 -2.353291
0.28163 0.160030 3.208085 -0.020674
5.41E-06 0.002747 -3.697984
0.42245 0.160030 3.208085 -0.020674
5.41E-06 0.011413 -5.042677
0.56326 0.160030 3.208085 -0.020674
5.41E-06 0.020079 -6.387370

COMB SETTLE ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.160030 3.208085 0.395987
2.24E-05 0.247758 1.008598
0.14082 0.160030 3.208085 0.395987
2.24E-05 0.081776 2.353291
0.28163 0.160030 3.208085 0.395987
2.24E-05 0.083609 3.697984
0.42245 0.160030 3.208085 0.395987
2.24E-05 0.249105 5.042677
0.56326 0.160030 3.208085 0.395987
2.24E-05 0.414600 6.387370

COMB SETTLE ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.160030 -3.208085 -0.394829
-2.18E-05 -0.247382 -1.008598
0.14082 -0.160030 -3.208085 -0.394829
-2.18E-05 -0.081886 -2.353291
0.28163 -0.160030 -3.208085 -0.394829
-2.18E-05 -0.084205 -3.697984
0.42245 -0.160030 -3.208085 -0.394829
-2.18E-05 -0.250186 -5.042677
0.56326 -0.160030 -3.208085 -0.394829
-2.18E-05 -0.416167 -6.387370

ELEM 310 ========== LENGTH = 2.977323

LOAD -A1 ------------------

REL DIST P V2 V3
T M2 M3
0.43663 -0.013905 -0.165362 -0.068661
-2.65E-06 -0.072942 -0.223640
0.57748 -0.013905 -0.165362 -0.068661
-2.65E-06 -0.044151 -0.154299
0.71832 -0.013905 -0.165362 -0.068661
-2.65E-06 -0.015359 -0.084958
0.85916 -0.013905 -0.165362 -0.068661
-2.65E-06 0.013433 -0.015616
1.00000 -0.013905 -0.165362 -0.068661
-2.65E-06 0.042225 0.053725
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
610

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ------------------

REL DIST P V2 V3
T M2 M3
0.43663 0.080737 1.283294 0.307510
1.37E-05 0.331698 1.604617
0.57748 0.080737 1.283294 0.307510
1.37E-05 0.262749 1.066493
0.71832 0.080737 1.283294 0.307510
1.37E-05 0.073801 0.528368
0.85916 0.080737 1.283294 0.307510
1.37E-05 -0.055147 -0.009756
1.00000 0.080737 1.283294 0.307510
1.37E-05 -0.184096 -0.547881

LOAD -P2 ------------------

REL DIST P V2 V3
T M2 M3
0.43663 -0.068891 -2.327742 0.104360
1.85E-05 0.112166 -2.908457
0.57748 -0.068891 -2.327742 0.104360
1.85E-05 0.068405 -1.932363
0.71832 -0.068891 -2.327742 0.104360
1.85E-05 0.024644 -0.956269
0.85916 -0.068891 -2.327742 0.104360
1.85E-05 -0.019118 0.019825
1.00000 -0.068891 -2.327742 0.104360
1.85E-05 -0.062879 0.995919

LOAD -P3 ------------------

REL DIST P V2 V3
T M2 M3
0.43663 0.025524 1.300522 -0.444638
-3.32E-05 -0.479433 1.652432
0.57748 0.025524 1.300522 -0.444638
-3.32E-05 -0.292982 1.111083
0.71832 0.025524 1.300522 -0.444638
-3.32E-05 -0.106532 0.565734
0.85916 0.025524 1.300522 -0.444638
-3.32E-05 0.079918 0.020385
1.00000 0.025524 1.300522 -0.444638
-3.32E-05 0.266369 -0.524965

LOAD -P4 ------------------

REL DIST P V2 V3
T M2 M3
0.43663 0.009593 -0.169625 0.112985
1.27E-06 0.122305 -0.235890
0.57748 0.009593 -0.169625 0.112985
1.27E-06 0.074927 -0.164761
0.71832 0.009593 -0.169625 0.112985
1.27E-06 0.027549 -0.093632
0.85916 0.009593 -0.169625 0.112985
1.27E-06 -0.019830 -0.022503
1.00000 0.009593 -0.169625 0.112985
1.27E-06 -0.067208 0.048626

LOAD -P5 ------------------

REL DIST P V2 V3
T M2 M3
0.43663 -0.033057 0.078913 -0.011555
2.48E-06 -0.013793 0.106938
0.57748 -0.033057 0.078913 -0.011555
2.48E-06 -0.008948 0.073847
0.71832 -0.033057 0.078913 -0.011555
2.48E-06 -0.004102 0.040757
0.85916 -0.033057 0.078913 -0.011555
2.48E-06 0.000743 0.007666
1.00000 -0.033057 0.078913 -0.011555
2.48E-06 0.005589 -0.025424

LOAD -2N+1- ------------------

REL DIST P V2 V3
T M2 M3
0.43663 -0.073203 -2.662729 0.148684
1.71E-05 0.161528 -3.367987
0.57748 -0.073203 -2.662729 0.148684
1.71E-05 0.099181 -2.251423
0.71832 -0.073203 -2.662729 0.148684
1.71E-05 0.036833 -1.134859
0.85916 -0.073203 -2.662729 0.148684
1.71E-05 -0.025514 -0.018294
1.00000 -0.073203 -2.662729 0.148684
1.71E-05 -0.087862 1.098270
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
611

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ------------------

REL DIST P V2 V3
T M2 M3
0.43663 0.073203 2.662729 -0.148684
-1.71E-05 -0.161528 3.367987
0.57748 0.073203 2.662729 -0.148684
-1.71E-05 -0.099181 2.251423
0.71832 0.073203 2.662729 -0.148684
-1.71E-05 -0.036833 1.134859
0.85916 0.073203 2.662729 -0.148684
-1.71E-05 0.025514 0.018294
1.00000 0.073203 2.662729 -0.148684
-1.71E-05 0.087862 -1.098270

COMB SETTLE ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.43663 0.080737 2.662729 0.307510
1.85E-05 0.331698 3.367987
0.57748 0.080737 2.662729 0.307510
1.85E-05 0.262749 2.251423
0.71832 0.080737 2.662729 0.307510
1.85E-05 0.073801 1.134859
0.85916 0.080737 2.662729 0.307510
1.85E-05 0.079918 0.020385
1.00000 0.080737 2.662729 0.307510
1.85E-05 0.266369 1.098270

COMB SETTLE ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.43663 -0.073203 -2.662729 -0.444638
-3.32E-05 -0.479433 -3.367987
0.57748 -0.073203 -2.662729 -0.444638
-3.32E-05 -0.292982 -2.251423
0.71832 -0.073203 -2.662729 -0.444638
-3.32E-05 -0.106532 -1.134859
0.85916 -0.073203 -2.662729 -0.444638
-3.32E-05 -0.055147 -0.022503
1.00000 -0.073203 -2.662729 -0.444638
-3.32E-05 0.184096 -1.098270

ELEM 311 ========== LENGTH = 2.977349

LOAD -A1 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.003488 -0.173676 -0.058105
6.19E-06 -0.033267 0.051211
0.14084 0.003488 -0.173676 -0.058105
6.19E-06 -0.008901 0.124040
0.28169 0.003488 -0.173676 -0.058105
6.19E-06 0.015464 0.196869
0.42253 0.003488 -0.173676 -0.058105
6.19E-06 0.039830 0.269698
0.56337 0.003488 -0.173676 -0.058105
6.19E-06 0.064195 0.342527

LOAD -P1 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.001752 1.317745 0.301669
-2.59E-05 0.178727 -0.536154
0.14084 -0.001752 1.317745 0.301669
-2.59E-05 0.052526 -1.088733
0.28169 -0.001752 1.317745 0.301669
-2.59E-05 -0.074275 -1.641313
0.42253 -0.001752 1.317745 0.301669
-2.59E-05 -0.200777 -2.193893
0.56337 -0.001752 1.317745 0.301669
-2.59E-05 -0.327278 -2.746472

LOAD -P2 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.047657 -2.393017 0.102040
7.74E-06 0.061165 0.977890
0.14084 -0.047657 -2.393017 0.102040
7.74E-06 0.018376 1.981371
0.28169 -0.047657 -2.393017 0.102040
7.74E-06 -0.024414 2.984853
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
612

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42253 -0.047657 -2.393017 0.102040
7.74E-06 -0.067203 3.988334
0.56337 -0.047657 -2.393017 0.102040
7.74E-06 -0.109992 4.991816

LOAD -P3 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.081496 1.358468 -0.437799
2.14E-05 0.260403 -0.513977
0.14084 0.081496 1.358468 -0.437799
2.14E-05 0.076818 -1.083633
0.28169 0.081496 1.358468 -0.437799
2.14E-05 0.106768 -1.653289
0.42253 0.081496 1.358468 -0.437799
2.14E-05 0.290354 -2.222945
0.56337 0.081496 1.358468 -0.437799
2.14E-05 0.473939 -2.792601

LOAD -P4 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.005032 -0.194681 0.114356
-1.34E-05 0.068262 0.045935
0.14084 -0.005032 -0.194681 0.114356
-1.34E-05 0.020309 0.127571
0.28169 -0.005032 -0.194681 0.114356
-1.34E-05 -0.027645 0.209208
0.42253 -0.005032 -0.194681 0.114356
-1.34E-05 -0.075599 0.290845
0.56337 -0.005032 -0.194681 0.114356
-1.34E-05 -0.123552 0.372482

LOAD -P5 ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.030544 0.085161 -0.022161
3.98E-06 -0.014484 -0.024905
0.14084 -0.030544 0.085161 -0.022161
3.98E-06 -0.005191 -0.060617
0.28169 -0.030544 0.085161 -0.022161
3.98E-06 0.004102 -0.096328
0.42253 -0.030544 0.085161 -0.022161
3.98E-06 0.013395 -0.132039
0.56337 -0.030544 0.085161 -0.022161
3.98E-06 0.022688 -0.167751

LOAD -2N+1- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 -0.049200 -2.761374 0.158291
5.00E-07 0.096160 -1.075036
0.14084 -0.049200 -2.761374 0.158291
5.00E-07 0.029783 -2.232983
0.28169 -0.049200 -2.761374 0.158291
5.00E-07 -0.036594 -3.390930
0.42253 -0.049200 -2.761374 0.158291
5.00E-07 -0.102972 -4.548877
0.56337 -0.049200 -2.761374 0.158291
5.00E-07 -0.169349 -5.706824

LOAD -2N+2- ------------------

REL DIST P V2 V3
T M2 M3
0.00000 0.049200 2.761374 -0.158291
-5.00E-07 -0.096160 1.075036
0.14084 0.049200 2.761374 -0.158291
-5.00E-07 -0.029783 2.232983
0.28169 0.049200 2.761374 -0.158291
-5.00E-07 0.036594 3.390930
0.42253 0.049200 2.761374 -0.158291
-5.00E-07 0.102972 4.548877
0.56337 0.049200 2.761374 -0.158291
-5.00E-07 0.169349 5.706824

COMB SETTLE ------------------ MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.081496 2.761374 0.301669
2.14E-05 0.178727 1.075036
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
613

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14084 0.081496 2.761374 0.301669
2.14E-05 0.052226 2.232983
0.28169 0.081496 2.761374 0.301669
2.14E-05 0.106768 3.390930
0.42253 0.081496 2.761374 0.301669
2.14E-05 0.290354 4.548877
0.56337 0.081496 2.761374 0.301669
2.14E-05 0.473939 5.706824

COMB SETTLE ------------------ MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.049200 -2.761374 -0.437799
-2.59E-05 -0.260403 -1.075036
0.14084 -0.049200 -2.761374 -0.437799
-2.59E-05 -0.076818 -2.232983
0.28169 -0.049200 -2.761374 -0.437799
-2.59E-05 -0.074275 -3.390930
0.42253 -0.049200 -2.761374 -0.437799
-2.59E-05 -0.200777 -4.548877
0.56337 -0.049200 -2.761374 -0.437799
-2.59E-05 -0.327278 -5.706824

ELEM 312 ========== LENGTH = 2.977992

LOAD -A1 ------------------

REL DIST P V2 V3
T M2 M3
0.43654 0.011800 -0.134838 -0.044277
-8.20E-07 -0.048270 -0.161789
0.57740 0.011800 -0.134838 -0.044277
-8.20E-07 -0.029696 -0.105225
0.71827 0.011800 -0.134838 -0.044277
-8.20E-07 -0.011122 -0.048661
0.85913 0.011800 -0.134838 -0.044277
-8.20E-07 0.007452 0.007903
1.00000 0.011800 -0.134838 -0.044277
-8.20E-07 0.026026 0.064467

LOAD -P1 ------------------

REL DIST P V2 V3
T M2 M3
0.43654 -0.045458 0.868440 0.196331
3.67E-06 0.218328 0.940587
0.57740 -0.045458 0.868440 0.196331
3.67E-06 0.135968 0.576278
0.71827 -0.045458 0.868440 0.196331
3.67E-06 0.053608 0.211969
0.85913 -0.045458 0.868440 0.196331
3.67E-06 -0.028753 -0.152341
1.00000 -0.045458 0.868440 0.196331
3.67E-06 -0.111113 -0.516650

LOAD -P2 ------------------

REL DIST P V2 V3
T M2 M3
0.43654 0.079366 -1.576124 0.233778
3.95E-05 0.261354 -1.737780
0.57740 0.079366 -1.576124 0.233778
3.95E-05 0.163284 -1.076599
0.71827 0.079366 -1.576124 0.233778
3.95E-05 0.065215 -0.415418
0.85913 0.079366 -1.576124 0.233778
3.95E-05 -0.032855 0.245763
1.00000 0.079366 -1.576124 0.233778
3.95E-05 -0.130924 0.906944

LOAD -P3 ------------------

REL DIST P V2 V3
T M2 M3
0.43654 -0.013609 0.873745 -0.493874
-4.55E-05 -0.551308 1.015150
0.57740 -0.013609 0.873745 -0.493874
-4.55E-05 -0.344129 0.648615
0.71827 -0.013609 0.873745 -0.493874
-4.55E-05 -0.136949 0.282081
0.85913 -0.013609 0.873745 -0.493874
-4.55E-05 0.070230 -0.084454
1.00000 -0.013609 0.873745 -0.493874
-4.55E-05 0.277409 -0.450988
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.001808	-0.105808	0.120599
1.81E-06	0.135218	-0.144318	
0.57740	0.001808	-0.105808	0.120599
1.81E-06	0.084626	-0.099932	
0.71827	0.001808	-0.105808	0.120599
1.81E-06	0.034035	-0.055546	
0.85913	0.001808	-0.105808	0.120599
1.81E-06	-0.016556	-0.011160	
1.00000	0.001808	-0.105808	0.120599
1.81E-06	-0.067147	0.033226	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.033907	0.074583	-0.012556
1.35E-06	-0.015321	0.088151	
0.57740	-0.033907	0.074583	-0.012556
1.35E-06	-0.010054	0.056864	
0.71827	-0.033907	0.074583	-0.012556
1.35E-06	-0.004787	0.025576	
0.85913	-0.033907	0.074583	-0.012556
1.35E-06	0.000481	-0.005711	
1.00000	-0.033907	0.074583	-0.012556
1.35E-06	0.005748	-0.036999	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.092974	-1.816769	0.310100
4.05E-05	0.348301	-2.043888	
0.57740	0.092974	-1.816769	0.310100
4.05E-05	0.218214	-1.281757	
0.71827	0.092974	-1.816769	0.310100
4.05E-05	0.088128	-0.519625	
0.85913	0.092974	-1.816769	0.310100
4.05E-05	-0.041958	0.242506	
1.00000	0.092974	-1.816769	0.310100
4.05E-05	-0.172045	1.004637	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.092974	1.816769	-0.310100
-4.05E-05	-0.348301	2.043888	
0.57740	-0.092974	1.816769	-0.310100
-4.05E-05	-0.218214	1.281757	
0.71827	-0.092974	1.816769	-0.310100
-4.05E-05	-0.088128	0.519625	
0.85913	-0.092974	1.816769	-0.310100
-4.05E-05	0.041958	-0.242506	
1.00000	-0.092974	1.816769	-0.310100
-4.05E-05	0.172045	-1.004637	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43654	0.092974	1.816769	0.310100
4.05E-05	0.348301	2.043888	
0.57740	0.092974	1.816769	0.310100
4.05E-05	0.218214	1.281757	
0.71827	0.092974	1.816769	0.310100
4.05E-05	0.088128	0.519625	
0.85913	0.092974	1.816769	0.310100
4.05E-05	0.070230	0.245763	
1.00000	0.092974	1.816769	0.310100
4.05E-05	0.277409	1.004637	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43654	-0.092974	-1.816769	-0.493874
-4.55E-05	-0.551308	-2.043888	
0.57740	-0.092974	-1.816769	-0.493874
-4.55E-05	-0.344129	-1.281757	
0.71827	-0.092974	-1.816769	-0.493874
-4.55E-05	-0.136949	-0.519625	
0.85913	-0.092974	-1.816769	-0.493874
-4.55E-05	-0.041958	-0.242506	
1.00000	-0.092974	-1.816769	-0.493874
-4.55E-05	-0.172045	-1.004637	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 313 ========== LENGTH = 2.976994

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.016652	-0.150584	-0.036094
4.92E-06	-0.019084	0.061817	
0.14083	0.016652	-0.150584	-0.036094
4.92E-06	-0.003952	0.124949	
0.28166	0.016652	-0.150584	-0.036094
4.92E-06	0.011180	0.188081	
0.42249	0.016652	-0.150584	-0.036094
4.92E-06	0.026312	0.251213	
0.56332	0.016652	-0.150584	-0.036094
4.92E-06	0.041445	0.314345	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.067926	0.942256	0.191117
-2.21E-05	0.106348	-0.504287	
0.14083	-0.067926	0.942256	0.191117
-2.21E-05	0.026222	-0.899327	
0.28166	-0.067926	0.942256	0.191117
-2.21E-05	-0.053903	-1.294366	
0.42249	-0.067926	0.942256	0.191117
-2.21E-05	-0.134028	-1.689406	
0.56332	-0.067926	0.942256	0.191117
-2.21E-05	-0.214154	-2.084445	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.116040	-1.687276	0.232922
3.84E-06	0.129956	0.888851	
0.14083	0.116040	-1.687276	0.232922
3.84E-06	0.032303	1.596239	
0.28166	0.116040	-1.687276	0.232922
3.84E-06	-0.065349	2.303628	
0.42249	0.116040	-1.687276	0.232922
3.84E-06	-0.163002	3.011016	
0.56332	0.116040	-1.687276	0.232922
3.84E-06	-0.260654	3.718404	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.036552	0.938733	-0.488672
2.45E-05	-0.272315	-0.441466	
0.14083	-0.036552	0.938733	-0.488672
2.45E-05	-0.067440	-0.835028	
0.28166	-0.036552	0.938733	-0.488672
2.45E-05	0.137435	-1.228591	
0.42249	-0.036552	0.938733	-0.488672
2.45E-05	0.342310	-1.622153	
0.56332	-0.036552	0.938733	-0.488672
2.45E-05	0.547185	-2.015715	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.005691	-0.120125	0.122199
-1.45E-05	0.068291	0.031812	
0.14083	0.005691	-0.120125	0.122199
-1.45E-05	0.017059	0.082174	
0.28166	0.005691	-0.120125	0.122199
-1.45E-05	-0.034173	0.132536	
0.42249	0.005691	-0.120125	0.122199
-1.45E-05	-0.085405	0.182898	
0.56332	0.005691	-0.120125	0.122199
-1.45E-05	-0.136636	0.233260	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.033906	0.076996	-0.021473
3.44E-06	-0.013195	-0.036727	
0.14083	-0.033906	0.076996	-0.021473
3.44E-06	-0.004192	-0.069008	
0.28166	-0.033906	0.076996	-0.021473
3.44E-06	0.004810	-0.101288	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42249	-0.033906	0.076996	-0.021473
3.44E-06	0.013813	-0.133569	
0.56332	-0.033906	0.076996	-0.021473
3.44E-06	0.022815	-0.165849	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.138383	-1.957985	0.319028
-5.79E-06	0.179162	0.982480	
0.14083	0.138383	-1.957985	0.319028
-5.79E-06	0.045410	1.803363	
0.28166	0.138383	-1.957985	0.319028
-5.79E-06	-0.088342	2.624245	
0.42249	0.138383	-1.957985	0.319028
-5.79E-06	-0.222094	3.445127	
0.56332	0.138383	-1.957985	0.319028
-5.79E-06	-0.355846	4.266009	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.138383	1.957985	-0.319028
5.79E-06	-0.179162	-0.982480	
0.14083	-0.138383	1.957985	-0.319028
5.79E-06	-0.045410	-1.803363	
0.28166	-0.138383	1.957985	-0.319028
5.79E-06	0.088342	-2.624245	
0.42249	-0.138383	1.957985	-0.319028
5.79E-06	0.222094	-3.445127	
0.56332	-0.138383	1.957985	-0.319028
5.79E-06	0.355846	-4.266009	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.138383	1.957985	0.319028
2.45E-05	0.179162	0.982480	
0.14083	0.138383	1.957985	0.319028
2.45E-05	0.045410	1.803363	
0.28166	0.138383	1.957985	0.319028
2.45E-05	0.137435	2.624245	
0.42249	0.138383	1.957985	0.319028
2.45E-05	0.342310	3.445127	
0.56332	0.138383	1.957985	0.319028
2.45E-05	0.547185	4.266009	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.138383	-1.957985	-0.488672
-2.21E-05	-0.272315	-0.982480	
0.14083	-0.138383	-1.957985	-0.488672
-2.21E-05	-0.067440	-1.803363	
0.28166	-0.138383	-1.957985	-0.488672
-2.21E-05	-0.088342	-2.624245	
0.42249	-0.138383	-1.957985	-0.488672
-2.21E-05	-0.222094	-3.445127	
0.56332	-0.138383	-1.957985	-0.488672
-2.21E-05	-0.355846	-4.266009	

ELEM 314 ========== LENGTH = 2.977713

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	0.012800	-0.111018	-0.026039
2.99E-07	0.028091	-0.111807	
0.57743	0.012800	-0.111018	-0.026039
2.99E-07	-0.017170	-0.065243	
0.71829	0.012800	-0.111018	-0.026039
2.99E-07	-0.006249	-0.018678	
0.85914	0.012800	-0.111018	-0.026039
2.99E-07	0.004673	0.027886	
1.00000	0.012800	-0.111018	-0.026039
2.99E-07	0.015594	0.074450	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-0.055340	0.617622	0.113728
-2.14E-06	0.125808	0.536273	
0.57743	-0.055340	0.617622	0.113728
-2.14E-06	0.078107	0.277225	
0.71829	-0.055340	0.617622	0.113728
-2.14E-06	0.030406	0.018177	
0.85914	-0.055340	0.617622	0.113728
-2.14E-06	-0.017294	-0.240871	
1.00000	-0.055340	0.617622	0.113728
-2.14E-06	-0.064995	-0.499920	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	0.103178	-1.024603	0.353032
5.21E-05	0.393677	-0.908744	
0.57743	0.103178	-1.024603	0.353032
5.21E-05	0.245605	-0.478997	
0.71829	0.103178	-1.024603	0.353032
5.21E-05	0.097533	-0.049249	
0.85914	0.103178	-1.024603	0.353032
5.21E-05	-0.050538	0.380498	
1.00000	0.103178	-1.024603	0.353032
5.21E-05	-0.198610	0.810245	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-0.034353	0.507513	-0.552893
-5.57E-05	-0.615915	0.512165	
0.57743	-0.034353	0.507513	-0.552893
-5.57E-05	-0.384015	0.299300	
0.71829	-0.034353	0.507513	-0.552893
-5.57E-05	-0.152116	0.086435	
0.85914	-0.034353	0.507513	-0.552893
-5.57E-05	0.079783	-0.126430	
1.00000	-0.034353	0.507513	-0.552893
-5.57E-05	0.311682	-0.339296	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	0.003391	-0.038274	0.124712
5.19E-06	0.139580	-0.077331	
0.57743	0.003391	-0.038274	0.124712
5.19E-06	0.087273	-0.061278	
0.71829	0.003391	-0.038274	0.124712
5.19E-06	0.034965	-0.045224	
0.85914	0.003391	-0.038274	0.124712
5.19E-06	-0.017343	-0.029171	
1.00000	0.003391	-0.038274	0.124712
5.19E-06	-0.069650	-0.013118	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-0.029676	0.048760	-0.012540
1.91E-07	-0.015059	0.049444	
0.57743	-0.029676	0.048760	-0.012540
1.91E-07	-0.009799	0.028992	
0.71829	-0.029676	0.048760	-0.012540
1.91E-07	-0.004540	0.008541	
0.85914	-0.029676	0.048760	-0.012540
1.91E-07	0.000720	-0.011911	
1.00000	-0.029676	0.048760	-0.012540
1.91E-07	0.005979	-0.032362	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	0.119369	-1.173895	0.451706
5.76E-05	0.505166	-1.097881	
0.57743	0.119369	-1.173895	0.451706
5.76E-05	0.315708	-0.605517	
0.71829	0.119369	-1.173895	0.451706
5.76E-05	0.126250	-0.113152	
0.85914	0.119369	-1.173895	0.451706
5.76E-05	-0.063208	0.379213	
1.00000	0.119369	-1.173895	0.451706
5.76E-05	-0.252666	0.871577	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-0.119369	1.173895	-0.451706
-5.76E-05	-0.505166	1.097881	
0.57743	-0.119369	1.173895	-0.451706
-5.76E-05	-0.315708	0.605517	
0.71829	-0.119369	1.173895	-0.451706
-5.76E-05	-0.126250	0.113152	
0.85914	-0.119369	1.173895	-0.451706
-5.76E-05	0.063208	-0.379213	
1.00000	-0.119369	1.173895	-0.451706
-5.76E-05	0.252666	-0.871577	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43658	0.119369	1.173895	0.451706
5.76E-05	0.505166	1.097881	
0.57743	0.119369	1.173895	0.451706
5.76E-05	0.315708	0.605517	
0.71829	0.119369	1.173895	0.451706
5.76E-05	0.126250	0.113152	
0.85914	0.119369	1.173895	0.451706
5.76E-05	0.079783	0.380498	
1.00000	0.119369	1.173895	0.451706
5.76E-05	0.311682	0.871577	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43658	-0.119369	-1.173895	-0.552893
-5.76E-05	-0.615915	-1.097881	
0.57743	-0.119369	-1.173895	-0.552893
-5.76E-05	-0.384015	-0.605517	
0.71829	-0.119369	-1.173895	-0.552893
-5.76E-05	-0.152116	-0.113152	
0.85914	-0.119369	-1.173895	-0.552893
-5.76E-05	-0.063208	-0.379213	
1.00000	-0.119369	-1.173895	-0.552893
-5.76E-05	-0.252666	-0.871577	

ELEM 315 ========== LENGTH = 2.977713

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.015406	-0.087601	-0.019588
3.14E-06	-0.010170	0.072104	
0.14086	0.015406	-0.087601	-0.019588
3.14E-06	-0.001954	0.108846	
0.28171	0.015406	-0.087601	-0.019588
3.14E-06	0.006262	0.145588	
0.42257	0.015406	-0.087601	-0.019588
3.14E-06	0.014478	0.182330	
0.56342	0.015406	-0.087601	-0.019588
3.14E-06	0.022694	0.219072	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.067419	0.508190	0.108267
-1.45E-05	0.060348	-0.488981	
0.14086	-0.067419	0.508190	0.108267
-1.45E-05	0.014937	-0.702130	
0.28171	-0.067419	0.508190	0.108267
-1.45E-05	-0.030473	-0.915279	
0.42257	-0.067419	0.508190	0.108267
-1.45E-05	-0.075883	-1.128428	
0.56342	-0.067419	0.508190	0.108267
-1.45E-05	-0.121293	-1.341577	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.120174	-0.894331	0.352353
-5.97E-06	0.197631	0.795287	
0.14086	0.120174	-0.894331	0.352353
-5.97E-06	0.049844	1.170394	
0.28171	0.120174	-0.894331	0.352353
-5.97E-06	-0.097943	1.545502	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42257	0.120174	-0.894331	0.352353
-5.97E-06	-0.245730	1.920609	
0.56342	0.120174	-0.894331	0.352353
-5.97E-06	-0.393517	2.295717	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.043501	0.491560	-0.547249
3.14E-05	-0.306384	-0.333255	
0.14086	-0.043501	0.491560	-0.547249
3.14E-05	-0.076852	-0.539429	
0.28171	-0.043501	0.491560	-0.547249
3.14E-05	0.152679	-0.745603	
0.42257	-0.043501	0.491560	-0.547249
3.14E-05	0.382211	-0.951777	
0.56342	-0.043501	0.491560	-0.547249
3.14E-05	0.611742	-1.157951	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.004496	-0.072989	0.126075
-1.75E-05	0.070671	-0.012724	
0.14086	0.004496	-0.072989	0.126075
-1.75E-05	0.017791	0.017889	
0.28171	0.004496	-0.072989	0.126075
-1.75E-05	-0.035088	0.048503	
0.42257	0.004496	-0.072989	0.126075
-1.75E-05	-0.087868	0.079116	
0.56342	0.004496	-0.072989	0.126075
-1.75E-05	-0.140848	0.109730	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.029155	0.055171	-0.019858
3.38E-06	-0.012096	-0.032431	
0.14086	-0.029155	0.055171	-0.019858
3.38E-06	-0.003766	-0.055571	
0.28171	-0.029155	0.055171	-0.019858
3.38E-06	0.004563	-0.078711	
0.42257	-0.029155	0.055171	-0.019858
3.38E-06	0.012892	-0.101851	
0.56342	-0.029155	0.055171	-0.019858
3.38E-06	0.021221	-0.124991	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.140075	-1.054920	0.458840
-2.03E-05	0.258132	0.854667	
0.14086	0.140075	-1.054920	0.458840
-2.03E-05	0.065681	1.297130	
0.28171	0.140075	-1.054920	0.458840
-2.03E-05	-0.126769	1.739593	
0.42257	0.140075	-1.054920	0.458840
-2.03E-05	-0.319220	2.182056	
0.56342	0.140075	-1.054920	0.458840
-2.03E-05	-0.511670	2.624519	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.140075	1.054920	-0.458840
2.03E-05	-0.258132	-0.854667	
0.14086	-0.140075	1.054920	-0.458840
2.03E-05	-0.065681	-1.297130	
0.28171	-0.140075	1.054920	-0.458840
2.03E-05	0.126769	-1.739593	
0.42257	-0.140075	1.054920	-0.458840
2.03E-05	0.319220	-2.182056	
0.56342	-0.140075	1.054920	-0.458840
2.03E-05	0.511670	-2.624519	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.140075	1.054920	0.458840
3.14E-05	0.258132	0.854667	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14086	0.140075	1.054920	0.458840
3.14E-05	0.065681	1.297130	
0.28171	0.140075	1.054920	0.458840
3.14E-05	0.152679	1.739593	
0.42257	0.140075	1.054920	0.458840
3.14E-05	0.382211	2.182056	
0.56342	0.140075	1.054920	0.458840
3.14E-05	0.611742	2.624519	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.140075	-1.054920	-0.547249
-2.03E-05	-0.306384	-0.854667	
0.14086	-0.140075	-1.054920	-0.547249
-2.03E-05	-0.076852	-1.297130	
0.28171	-0.140075	-1.054920	-0.547249
-2.03E-05	-0.126769	-1.739593	
0.42257	-0.140075	-1.054920	-0.547249
-2.03E-05	-0.319220	-2.182056	
0.56342	-0.140075	-1.054920	-0.547249
-2.03E-05	-0.511670	-2.624519	

ELEM 316 ========== LENGTH = 2.977509

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.003632	-0.038827	-0.008691
8.36E-07	-0.008972	-0.029081	
0.57745	0.003632	-0.038827	-0.008691
8.36E-07	-0.005327	-0.012798	
0.71830	0.003632	-0.038827	-0.008691
8.36E-07	-0.001682	0.003485	
0.85915	0.003632	-0.038827	-0.008691
8.36E-07	0.001963	0.019768	
1.00000	0.003632	-0.038827	-0.008691
8.36E-07	0.005608	0.036051	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	-0.009879	0.218271	0.034335
-4.74E-06	0.037477	0.093937	
0.57745	-0.009879	0.218271	0.034335
-4.74E-06	0.023077	0.002400	
0.71830	-0.009879	0.218271	0.034335
-4.74E-06	0.008678	-0.089138	
0.85915	-0.009879	0.218271	0.034335
-4.74E-06	-0.005721	-0.180676	
1.00000	-0.009879	0.218271	0.034335
-4.74E-06	-0.020120	-0.272214	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43661	0.036734	-0.359620	0.455231
5.52E-05	0.507547	-0.175798	
0.57745	0.036734	-0.359620	0.455231
5.52E-05	0.316634	-0.024982	
0.71830	0.036734	-0.359620	0.455231
5.52E-05	0.125720	0.125834	
0.85915	0.036734	-0.359620	0.455231
5.52E-05	-0.065193	0.276651	
1.00000	0.036734	-0.359620	0.455231
5.52E-05	-0.256107	0.427467	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	

```
0.43661    -0.012640     0.156886    -0.584042
-5.37E-05    -0.650918     0.148114
0.57745    -0.012640     0.156886    -0.584042
-5.37E-05    -0.405984     0.082320
0.71830    -0.012640     0.156886    -0.584042
-5.37E-05    -0.161050     0.016525
0.85915    -0.012640     0.156886    -0.584042
-5.37E-05     0.083885    -0.049269
1.00000    -0.012640     0.156886    -0.584042
-5.37E-05     0.328819    -0.115063
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         621

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43661     0.008985    -0.006539     0.112814
 1.95E-06     0.126501    -0.061815
0.57745     0.008985    -0.006539     0.112814
 1.95E-06     0.079189    -0.059072
0.71830     0.008985    -0.006539     0.112814
 1.95E-06     0.031878    -0.056330
0.85915     0.008985    -0.006539     0.112814
 1.95E-06    -0.015433    -0.053588
1.00000     0.008985    -0.006539     0.112814
 1.95E-06    -0.062745    -0.050845

LOAD      -P5 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43661    -0.026832     0.029830    -0.009646
 5.20E-07    -0.011635     0.024643
0.57745    -0.026832     0.029830    -0.009646
 5.20E-07    -0.007590     0.012133
0.71830    -0.026832     0.029830    -0.009646
 5.20E-07    -0.003545    -0.000376
0.85915    -0.026832     0.029830    -0.009646
 5.20E-07     0.000500    -0.012886
1.00000    -0.026832     0.029830    -0.009646
 5.20E-07     0.004546    -0.025396

LOAD   -2N+1- ------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43661     0.049351    -0.404986     0.559353
 5.80E-05     0.625076    -0.266695
0.57745     0.049351    -0.404986     0.559353
 5.80E-05     0.390496    -0.096853
0.71830     0.049351    -0.404986     0.559353
 5.80E-05     0.155916     0.072989
0.85915     0.049351    -0.404986     0.559353
 5.80E-05    -0.078664     0.242831
1.00000     0.049351    -0.404986     0.559353
 5.80E-05    -0.313244     0.412673

LOAD   -2N+2- ------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43661    -0.049351     0.404986    -0.559353
-5.80E-05    -0.625076     0.266695
0.57745    -0.049351     0.404986    -0.559353
-5.80E-05    -0.390496     0.096853
0.71830    -0.049351     0.404986    -0.559353
-5.80E-05    -0.155916    -0.072989
0.85915    -0.049351     0.404986    -0.559353
-5.80E-05     0.078664    -0.242831
1.00000    -0.049351     0.404986    -0.559353
-5.80E-05     0.313244    -0.412673

COMB   SETTLE ------------------ MAX

REL DIST          P             V2             V3
     T            M2             M3
0.43661     0.049351     0.404986     0.559353
5.80E-05     0.625076     0.266695
0.57745     0.049351     0.404986     0.559353
5.80E-05     0.390496     0.096853
0.71830     0.049351     0.404986     0.559353
5.80E-05     0.155916     0.125834
0.85915     0.049351     0.404986     0.559353
5.80E-05     0.083885     0.276651
1.00000     0.049351     0.404986     0.559353
5.80E-05     0.328819     0.427467

COMB   SETTLE ------------------ MIN

REL DIST          P             V2             V3
     T            M2             M3
0.43661    -0.049351    -0.404986    -0.584042
-5.80E-05    -0.650918    -0.266695
0.57745    -0.049351    -0.404986    -0.584042
-5.80E-05    -0.405984    -0.096853
0.71830    -0.049351    -0.404986    -0.584042
-5.80E-05    -0.161050    -0.089138
0.85915    -0.049351    -0.404986    -0.584042
-5.80E-05     0.078664    -0.242831
1.00000    -0.049351    -0.404986    -0.584042
-5.80E-05    -0.313244    -0.412673
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         622

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      317 ================== LENGTH
=     2.977509

LOAD      -A1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.009143    -0.069150    -0.003785
 1.19E-06    -0.001497     0.033537
0.14085     0.009143    -0.069150    -0.003785
 1.19E-06     9.00E-05     0.062536
0.28170     0.009143    -0.069150    -0.003785
 1.19E-06     0.001677     0.091536
0.42255     0.009143    -0.069150    -0.003785
 1.19E-06     0.003264     0.120536
0.56339     0.009143    -0.069150    -0.003785
 1.19E-06     0.004852     0.149536

LOAD      -P1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.035590     0.359683     0.029910
-5.67E-06     0.016435    -0.260490
0.14085    -0.035590     0.359683     0.029910
-5.67E-06     0.003892    -0.411333
0.28170    -0.035590     0.359683     0.029910
-5.67E-06    -0.008652    -0.562176
0.42255    -0.035590     0.359683     0.029910
-5.67E-06    -0.021195    -0.713018
0.56339    -0.035590     0.359683     0.029910
-5.67E-06    -0.033739    -0.863861

LOAD      -P2 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.069044    -0.555107     0.453549
-1.31E-05     0.254160     0.413151
0.14085     0.069044    -0.555107     0.453549
-1.31E-05     0.063952     0.645950
0.28170     0.069044    -0.555107     0.453549
-1.31E-05    -0.126256     0.878749
0.42255     0.069044    -0.555107     0.453549
-1.31E-05    -0.316464     1.111548
0.56339     0.069044    -0.555107     0.453549
-1.31E-05    -0.506673     1.344347

LOAD      -P3 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.021449     0.240170    -0.578625
 2.76E-05    -0.323670    -0.112505
0.14085    -0.021449     0.240170    -0.578625
 2.76E-05    -0.081008    -0.213227
0.28170    -0.021449     0.240170    -0.578625
 2.76E-05     0.161654    -0.313948
0.42255    -0.021449     0.240170    -0.578625
 2.76E-05     0.404316    -0.414670
0.56339    -0.021449     0.240170    -0.578625
 2.76E-05     0.646978    -0.515392

LOAD      -P4 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.004005    -0.005135     0.114237
-1.20E-05     0.063834    -0.047716
0.14085     0.004005    -0.005135     0.114237
-1.20E-05     0.015925    -0.045563
0.28170     0.004005    -0.005135     0.114237
-1.20E-05    -0.031983    -0.043410
0.42255     0.004005    -0.005135     0.114237
-1.20E-05    -0.079891    -0.041256
0.56339     0.004005    -0.005135     0.114237
-1.20E-05    -0.127800    -0.039103

LOAD      -P5 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.025153     0.029539    -0.015287
 1.92E-06    -0.009262    -0.025976
0.14085    -0.025153     0.029539    -0.015287
 1.92E-06    -0.002851    -0.038364
0.28170    -0.025153     0.029539    -0.015287
 1.92E-06     0.003560    -0.050751
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         623

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
     T            M2             M3
0.42255    -0.025153     0.029539    -0.015287
 1.92E-06     0.009971    -0.063139
0.56339    -0.025153     0.029539    -0.015287
 1.92E-06     0.016382    -0.075527

LOAD   -2N+1- ------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.082192    -0.629391     0.564001
-2.39E-05     0.316497     0.398971
0.14085     0.082192    -0.629391     0.564001
-2.39E-05     0.079967     0.662923
0.28170     0.082192    -0.629391     0.564001
-2.39E-05    -0.156562     0.926875
0.42255     0.082192    -0.629391     0.564001
-2.39E-05    -0.393091     1.190828
0.56339     0.082192    -0.629391     0.564001
-2.39E-05    -0.629621     1.454780

LOAD   -2N+2- ------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.082192     0.629391    -0.564001
 2.39E-05    -0.316497    -0.398971
0.14085    -0.082192     0.629391    -0.564001
 2.39E-05    -0.079967    -0.662923
0.28170    -0.082192     0.629391    -0.564001
 2.39E-05     0.156562    -0.926875
0.42255    -0.082192     0.629391    -0.564001
 2.39E-05     0.393091    -1.190828
0.56339    -0.082192     0.629391    -0.564001
 2.39E-05     0.629621    -1.454780

COMB   SETTLE ------------------ MAX

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.082192     0.629391     0.564001
2.76E-05     0.316497     0.413151
0.14085     0.082192     0.629391     0.564001
2.76E-05     0.079967     0.662923
0.28170     0.082192     0.629391     0.564001
2.76E-05     0.161654     0.926875
0.42255     0.082192     0.629391     0.564001
2.76E-05     0.404316     1.190828
0.56339     0.082192     0.629391     0.564001
2.76E-05     0.646978     1.454780

COMB   SETTLE ------------------ MIN

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.082192    -0.629391    -0.578625
-2.39E-05    -0.316497    -0.398971
0.14085    -0.082192    -0.629391    -0.578625
-2.39E-05    -0.081008    -0.662923
0.28170    -0.082192    -0.629391    -0.578625
-2.39E-05    -0.156562    -0.926875
0.42255    -0.082192    -0.629391    -0.578625
-2.39E-05    -0.393091    -1.190828
0.56339    -0.082192    -0.629391    -0.578625
-2.39E-05    -0.629621    -1.454780

ELEM      318 ================== LENGTH
=     2.977380

LOAD      -A1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663     2.36E-05    -0.030670     0.006895
 8.73E-07     0.008314    -0.017804
0.57747     2.36E-05    -0.030670     0.006895
 8.73E-07     0.005422    -0.004943
0.71831     2.36E-05    -0.030670     0.006895
 8.73E-07     0.002531     0.007918
0.85916     2.36E-05    -0.030670     0.006895
 8.73E-07    -0.000361     0.020780
1.00000     2.36E-05    -0.030670     0.006895
 8.73E-07    -0.003252     0.033641
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         624

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663     0.008610     0.156536    -0.037444
-4.91E-06    -0.042757     0.037681
0.57747     0.008610     0.156536    -0.037444
-4.91E-06    -0.027055    -0.027961
0.71831     0.008610     0.156536    -0.037444
-4.91E-06    -0.011353    -0.093604
0.85916     0.008610     0.156536    -0.037444
-4.91E-06     0.004349    -0.159246
1.00000     0.008610     0.156536    -0.037444
-4.91E-06     0.020051    -0.224889

LOAD      -P2 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663     0.008065    -0.208197     0.534271
 5.81E-05     0.596053    -0.070158
0.57747     0.008065    -0.208197     0.534271
 5.81E-05     0.372009     0.017149
0.71831     0.008065    -0.208197     0.534271
 5.81E-05     0.147965     0.104455
0.85916     0.008065    -0.208197     0.534271
 5.81E-05    -0.076079     0.191761
1.00000     0.008065    -0.208197     0.534271
 5.81E-05    -0.300123     0.279067

LOAD      -P3 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663    -0.006417     0.013224    -0.582187
-5.89E-05    -0.649187     0.068610
0.57747    -0.006417     0.013224    -0.582187
-5.89E-05    -0.405049     0.063065
0.71831    -0.006417     0.013224    -0.582187
-5.89E-05    -0.160912     0.057520
0.85916    -0.006417     0.013224    -0.582187
-5.89E-05     0.083225     0.051974
1.00000    -0.006417     0.013224    -0.582187
-5.89E-05     0.327362     0.046429

LOAD      -P4 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663     0.015540     0.060092     0.081772
5.01E-06     0.091898    -0.020098
0.57747     0.015540     0.060092     0.081772
5.01E-06     0.057607    -0.046107
0.71831     0.015540     0.060092     0.081772
5.01E-06     0.023317    -0.071306
0.85916     0.015540     0.060092     0.081772
5.01E-06    -0.010974    -0.096506
1.00000     0.015540     0.060092     0.081772
5.01E-06    -0.045265    -0.121705

LOAD      -P5 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663    -0.025822     0.009015    -0.003307
-1.39E-07    -0.004320     0.002578
0.57747    -0.025822     0.009015    -0.003307
-1.39E-07    -0.002934    -0.001203
0.71831    -0.025822     0.009015    -0.003307
-1.39E-07    -0.001547    -0.004983
0.85916    -0.025822     0.009015    -0.003307
-1.39E-07    -0.000160    -0.008763
1.00000    -0.025822     0.009015    -0.003307
-1.39E-07     0.001227    -0.012544

LOAD   -2N+1- ------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663     0.023629    -0.178775     0.622938
 6.39E-05     0.696264    -0.108870
0.57747     0.023629    -0.178775     0.622938
 6.39E-05     0.435038    -0.033901
0.71831     0.023629    -0.178775     0.622938
 6.39E-05     0.173812     0.041067
0.85916     0.023629    -0.178775     0.622938
 6.39E-05    -0.087414     0.116035
1.00000     0.023629    -0.178775     0.622938
 6.39E-05    -0.348640     0.191004
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         625

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663    -0.023629     0.178775    -0.622938
-6.39E-05    -0.696264     0.108870
0.57747    -0.023629     0.178775    -0.622938
-6.39E-05    -0.435038     0.033901
0.71831    -0.023629     0.178775    -0.622938
-6.39E-05    -0.173812    -0.041067
0.85916    -0.023629     0.178775    -0.622938
-6.39E-05     0.087414    -0.116035
1.00000    -0.023629     0.178775    -0.622938
-6.39E-05     0.348640    -0.191004

COMB   SETTLE ------------------ MAX

REL DIST          P             V2             V3
     T            M2             M3
0.43663     0.023629     0.178775     0.622938
6.39E-05     0.696264     0.108870
0.57747     0.023629     0.178775     0.622938
6.39E-05     0.435038     0.063065
0.71831     0.023629     0.178775     0.622938
6.39E-05     0.173812     0.104455
0.85916     0.023629     0.178775     0.622938
6.39E-05     0.087414     0.191761
1.00000     0.023629     0.178775     0.622938
6.39E-05     0.348640     0.279067

COMB   SETTLE ------------------ MIN

REL DIST          P             V2             V3
     T            M2             M3
0.43663    -0.025822    -0.208197    -0.622938
-6.39E-05    -0.696264    -0.108870
0.57747    -0.025822    -0.208197    -0.622938
-6.39E-05    -0.435038    -0.046107
0.71831    -0.025822    -0.208197    -0.622938
-6.39E-05    -0.173812    -0.093604
0.85916    -0.025822    -0.208197    -0.622938
-6.39E-05    -0.087414    -0.159246
1.00000    -0.025822    -0.208197    -0.622938
-6.39E-05    -0.348640    -0.224889

ELEM      319 ================== LENGTH
=     2.976382

LOAD      -A1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.003049    -0.030523     0.010541
-7.00E-07     0.006290     0.031792
0.14081     0.003049    -0.030523     0.010541
-7.00E-07     0.001873     0.044584
0.28161     0.003049    -0.030523     0.010541
-7.00E-07    -0.002545     0.057376
0.42242     0.003049    -0.030523     0.010541
-7.00E-07    -0.006962     0.070169
0.56323     0.003049    -0.030523     0.010541
-7.00E-07    -0.011380     0.082961

LOAD      -P1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.005541     0.155780    -0.040543
 3.03E-06    -0.022565    -0.216271
0.14081    -0.005541     0.155780    -0.040543
 3.03E-06    -0.005574    -0.281558
0.28161    -0.005541     0.155780    -0.040543
 3.03E-06     0.011417    -0.346845
0.42242    -0.005541     0.155780    -0.040543
 3.03E-06     0.028408    -0.412132
0.56323    -0.005541     0.155780    -0.040543
 3.03E-06     0.045400    -0.477419

LOAD      -P2 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.021336    -0.203920     0.532129
-2.31E-05     0.297417     0.270630
0.14081     0.021336    -0.203920     0.532129
-2.31E-05     0.074405     0.356092
0.28161     0.021336    -0.203920     0.532129
-2.31E-05    -0.148608     0.441554
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         626

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
     T            M2             M3
0.42242     0.021336    -0.203920     0.532129
-2.31E-05    -0.371621     0.527016
0.56323     0.021336    -0.203920     0.532129
-2.31E-05    -0.594634     0.612478

LOAD      -P3 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.001552     0.005424    -0.578534
 2.96E-05    -0.323332     0.043541
0.14081    -0.001552     0.005424    -0.578534
 2.96E-05    -0.080871     0.041267
0.28161    -0.001552     0.005424    -0.578534
 2.96E-05     0.161590     0.038994
0.42242    -0.001552     0.005424    -0.578534
 2.96E-05     0.404051     0.036721
0.56323    -0.001552     0.005424    -0.578534
 2.96E-05     0.646512     0.034447

LOAD      -P4 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.006031     0.065211     0.083633
-1.01E-05     0.046692    -0.116108
0.14081     0.006031     0.065211     0.083633
-1.01E-05     0.011642    -0.143438
0.28161     0.006031     0.065211     0.083633
-1.01E-05    -0.023409    -0.170767
0.42242     0.006031     0.065211     0.083633
-1.01E-05    -0.058459    -0.198097
0.56323     0.006031     0.065211     0.083633
-1.01E-05    -0.093509    -0.225427

LOAD      -P5 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.023323     0.008027    -0.007226
 1.21E-06    -0.004503    -0.013583
0.14081    -0.023323     0.008027    -0.007226
 1.21E-06    -0.001474    -0.016948
0.28161    -0.023323     0.008027    -0.007226
 1.21E-06     0.001554    -0.020312
0.42242    -0.023323     0.008027    -0.007226
 1.21E-06     0.004582    -0.023676
0.56323    -0.023323     0.008027    -0.007226
 1.21E-06     0.007611    -0.027041

LOAD   -2N+1- ------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.030416    -0.169232     0.626303
-3.39E-05     0.350400     0.186314
0.14081     0.030416    -0.169232     0.626303
-3.39E-05     0.087919     0.257239
0.28161     0.030416    -0.169232     0.626303
-3.39E-05    -0.174562     0.328163
0.42242     0.030416    -0.169232     0.626303
-3.39E-05    -0.437042     0.399088
0.56323     0.030416    -0.169232     0.626303
-3.39E-05    -0.699523     0.470012

LOAD   -2N+2- ------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.030416     0.169232    -0.626303
 3.39E-05    -0.350400    -0.186314
0.14081    -0.030416     0.169232    -0.626303
 3.39E-05    -0.087919    -0.257239
0.28161    -0.030416     0.169232    -0.626303
 3.39E-05     0.174562    -0.328163
0.42242    -0.030416     0.169232    -0.626303
 3.39E-05     0.437042    -0.399088
0.56323    -0.030416     0.169232    -0.626303
 3.39E-05     0.699523    -0.470012

COMB   SETTLE ------------------ MAX

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.030416     0.169232     0.626303
3.39E-05     0.350400     0.270630
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         627

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
     T            M2             M3
0.14081     0.030416     0.169232     0.626303
3.39E-05     0.087919     0.356092
0.28161     0.030416     0.169232     0.626303
3.39E-05     0.174562     0.441554
0.42242     0.030416     0.169232     0.626303
3.39E-05     0.437042     0.527016
0.56323     0.030416     0.169232     0.626303
3.39E-05     0.699523     0.612478

COMB   SETTLE ------------------ MIN

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.030416    -0.203920    -0.626303
-3.39E-05    -0.350400    -0.216271
0.14081    -0.030416    -0.203920    -0.626303
-3.39E-05    -0.087919    -0.281558
0.28161    -0.030416    -0.203920    -0.626303
-3.39E-05    -0.174562    -0.346845
0.42242    -0.030416    -0.203920    -0.626303
-3.39E-05    -0.437042    -0.412132
0.56323    -0.030416    -0.203920    -0.626303
-3.39E-05    -0.699523    -0.477419

ELEM      320 ================== LENGTH
=     2.977328

LOAD      -A1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663    -0.000948    -0.012960     0.018400
 1.03E-06     0.020985    -0.003301
0.57747    -0.000948    -0.012960     0.018400
 1.03E-06     0.013269     0.002133
0.71832    -0.000948    -0.012960     0.018400
 1.03E-06     0.005553     0.007568
0.85916    -0.000948    -0.012960     0.018400
 1.03E-06    -0.002163     0.013002
1.00000    -0.000948    -0.012960     0.018400
 1.03E-06    -0.009879     0.018437

LOAD      -P1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663     0.011401     0.064858    -0.090453
-5.60E-06    -0.101610    -0.020252
0.57747     0.011401     0.064858    -0.090453
-5.60E-06    -0.063680    -0.047449
0.71832     0.011401     0.064858    -0.090453
-5.60E-06    -0.025750    -0.074646
0.85916     0.011401     0.064858    -0.090453
-5.60E-06     0.012180    -0.101843
1.00000     0.011401     0.064858    -0.090453
-5.60E-06     0.050110    -0.129040

LOAD      -P2 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.43663    -0.008858     0.010809     0.575361
 5.85E-05     0.641511     0.072662
0.57747    -0.008858     0.010809     0.575361
```

```
 5.85E-05    0.400244    0.068130
0.71832   -0.008858    0.010809    0.575361
 5.85E-05    0.158976    0.063597
0.85916   -0.008858    0.010809    0.575361
 5.85E-05   -0.082291    0.059064
1.00000   -0.008858    0.010809    0.575361
 5.85E-05   -0.323558    0.054532

LOAD      -P3 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663    0.009904   -0.200830   -0.542047
-5.83E-05   -0.604478   -0.071149
0.57747    0.009904   -0.200830   -0.542047
-5.83E-05   -0.377181    0.013065
0.71832    0.009904   -0.200830   -0.542047
-5.83E-05   -0.149883    0.097260
0.85916    0.009904   -0.200830   -0.542047
-5.83E-05    0.077415    0.181494
1.00000    0.009904   -0.200830   -0.542047
-5.83E-05    0.304713    0.265708
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  628

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663    0.013406    0.144841    0.032299
4.36E-06    0.036866    0.032542
0.57747    0.013406    0.144841    0.032299
4.36E-06    0.023321   -0.028195
0.71832    0.013406    0.144841    0.032299
4.36E-06    0.009777   -0.088931
0.85916    0.013406    0.144841    0.032299
4.36E-06   -0.003767   -0.149668
1.00000    0.013406    0.144841    0.032299
4.36E-06   -0.017311   -0.210405

LOAD      -P5 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.024905   -0.006719    0.006440
-2.61E-08    0.006727   -0.010502
0.57747   -0.024905   -0.006719    0.006440
-2.61E-08    0.004026   -0.007684
0.71832   -0.024905   -0.006719    0.006440
-2.61E-08    0.001326   -0.004867
0.85916   -0.024905   -0.006719    0.006440
-2.61E-08   -0.001375   -0.002050
1.00000   -0.024905   -0.006719    0.006440
-2.61E-08   -0.004075    0.000768

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663    0.003600    0.142691    0.626061
6.39E-05    0.699361    0.101903
0.57747    0.003600    0.142691    0.626061
6.39E-05    0.436834    0.042068
0.71832    0.003600    0.142691    0.626061
6.39E-05    0.174306   -0.017767
0.85916    0.003600    0.142691    0.626061
6.39E-05   -0.088221   -0.077602
1.00000    0.003600    0.142691    0.626061
6.39E-05   -0.350748   -0.137436

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.003600   -0.142691   -0.626061
-6.39E-05   -0.699361   -0.101903
0.57747   -0.003600   -0.142691   -0.626061
-6.39E-05   -0.436834   -0.042068
0.71832   -0.003600   -0.142691   -0.626061
-6.39E-05   -0.174306    0.017767
0.85916   -0.003600   -0.142691   -0.626061
-6.39E-05    0.088221    0.077602
1.00000   -0.003600   -0.142691   -0.626061
-6.39E-05    0.350748    0.137436

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.43663    0.013406    0.144841    0.626061
6.39E-05    0.699361    0.101903
0.57747    0.013406    0.144841    0.626061
6.39E-05    0.436834    0.068130
0.71832    0.013406    0.144841    0.626061
6.39E-05    0.174306    0.097280
0.85916    0.013406    0.144841    0.626061
6.39E-05    0.088221    0.181494
1.00000    0.013406    0.144841    0.626061
6.39E-05    0.350748    0.265708

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.024905   -0.200830   -0.626061
-6.39E-05   -0.699361   -0.101903
0.57747   -0.024905   -0.200830   -0.626061
-6.39E-05   -0.436834   -0.047449
0.71832   -0.024905   -0.200830   -0.626061
-6.39E-05   -0.174306   -0.088931
0.85916   -0.024905   -0.200830   -0.626061
-6.39E-05   -0.088221   -0.149668
1.00000   -0.024905   -0.200830   -0.626061
-6.39E-05   -0.350748   -0.210405
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  629

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      321 ================== LENGTH
=    2.977327

LOAD      -A1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.001192   -0.014042    0.021044
-2.43E-06    0.012076    0.017096
0.14084    0.001192   -0.014042    0.021044
-2.43E-06    0.003252    0.022984
0.28168    0.001192   -0.014042    0.021044
-2.43E-06   -0.005573    0.028872
0.42253    0.001192   -0.014042    0.021044
-2.43E-06   -0.014397    0.034760
0.56337    0.001192   -0.014042    0.021044
-2.43E-06   -0.023221    0.040648

LOAD      -P1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.001396    0.069920   -0.092342
 1.11E-05   -0.051607   -0.122792
0.14084    0.001396    0.069920   -0.092342
 1.11E-05   -0.012885   -0.152111
0.28168    0.001396    0.069920   -0.092342
 1.11E-05    0.025837   -0.181431
0.42253    0.001396    0.069920   -0.092342
 1.11E-05    0.064559   -0.210751
0.56337    0.001396    0.069920   -0.092342
 1.11E-05    0.103281   -0.240070

LOAD      -P2 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.003756    0.003115    0.570981
-2.93E-05    0.319310    0.051159
0.14084   -0.003756    0.003115    0.570981
-2.93E-05    0.079880    0.049853
0.28168   -0.003756    0.003115    0.570981
-2.93E-05   -0.159551    0.048547
0.42253   -0.003756    0.003115    0.570981
-2.93E-05   -0.398981    0.047241
0.56337   -0.003756    0.003115    0.570981
-2.93E-05   -0.638412    0.045935

LOAD      -P3 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.022834   -0.196115   -0.538121
 2.37E-05   -0.300861    0.257332
0.14084    0.022834   -0.196115   -0.538121
 2.37E-05   -0.075210    0.339569
0.28168    0.022834   -0.196115   -0.538121
 2.37E-05    0.150442    0.421807
0.42253    0.022834   -0.196115   -0.538121
 2.37E-05    0.376093    0.504044
0.56337    0.022834   -0.196115   -0.538121
 2.37E-05    0.601744    0.586281

LOAD      -P4 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000    2.24E-05    0.143670    0.034489
-2.57E-06    0.019097   -0.202003
0.14084    2.24E-05    0.143670    0.034489
-2.57E-06    0.004635   -0.262248
0.28168    2.24E-05    0.143670    0.034489
-2.57E-06   -0.009827   -0.322493
0.42253    2.24E-05    0.143670    0.034489
-2.57E-06   -0.024290   -0.382738
0.56337    2.24E-05    0.143670    0.034489
-2.57E-06   -0.038752   -0.442984

LOAD      -P5 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.021688   -0.006548    0.003949
-4.76E-07    0.001984   -0.000793
0.14084   -0.021688   -0.006548    0.003949
-4.76E-07    0.000328    0.001952
0.28168   -0.021688   -0.006548    0.003949
-4.76E-07   -0.001328    0.004698
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  630

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
0.42253   -0.021688   -0.006548    0.003949
-4.76E-07   -0.002984    0.007444
0.56337   -0.021688   -0.006548    0.003949
-4.76E-07   -0.004640    0.010189

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.002541    0.132743    0.626514
-3.43E-05    0.350484   -0.133747
0.14084   -0.002541    0.132743    0.626514
-3.43E-05    0.087767   -0.189410
0.28168   -0.002541    0.132743    0.626514
-3.43E-05   -0.174951   -0.245074
0.42253   -0.002541    0.132743    0.626514
-3.43E-05   -0.437668   -0.300737
0.56337   -0.002541    0.132743    0.626514
-3.43E-05   -0.700385   -0.356400

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.002541   -0.132743   -0.626514
 3.43E-05   -0.350484    0.133747
0.14084    0.002541   -0.132743   -0.626514
 3.43E-05   -0.087767    0.189410
0.28168    0.002541   -0.132743   -0.626514
 3.43E-05    0.174951    0.245074
0.42253    0.002541   -0.132743   -0.626514
 3.43E-05    0.437668    0.300737
0.56337    0.002541   -0.132743   -0.626514
 3.43E-05    0.700385    0.356400

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.022834    0.143670    0.626514
3.43E-05    0.350484    0.257332
0.14084    0.022834    0.143670    0.626514
3.43E-05    0.087767    0.339569
0.28168    0.022834    0.143670    0.626514
3.43E-05    0.174951    0.421807
0.42253    0.022834    0.143670    0.626514
3.43E-05    0.437668    0.504044
0.56337    0.022834    0.143670    0.626514
3.43E-05    0.700385    0.586281

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.021688   -0.196115   -0.626514
-3.43E-05   -0.350484   -0.202003
0.14084   -0.021688   -0.196115   -0.626514
-3.43E-05   -0.087767   -0.262248
0.28168   -0.021688   -0.196115   -0.626514
-3.43E-05   -0.174951   -0.322493
0.42253   -0.021688   -0.196115   -0.626514
-3.43E-05   -0.437668   -0.382738
0.56337   -0.021688   -0.196115   -0.626514
-3.43E-05   -0.700385   -0.442984

ELEM      322 ================== LENGTH
=    2.977346

LOAD      -A1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.000335    0.000861    0.025672
 3.33E-07    0.029000    0.008006
0.57747   -0.000335    0.000861    0.025672
 3.33E-07    0.018235    0.007645
0.71832   -0.000335    0.000861    0.025672
 3.33E-07    0.007470    0.007284
0.85916   -0.000335    0.000861    0.025672
 3.33E-07   -0.003296    0.006923
1.00000   -0.000335    0.000861    0.025672
 3.33E-07   -0.014061    0.006562
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  631

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663    0.005229   -0.002742   -0.123797
-2.25E-06    0.138717   -0.061473
0.57747    0.005229   -0.002742   -0.123797
-2.25E-06   -0.086804   -0.060323
0.71832    0.005229   -0.002742   -0.123797
-2.25E-06   -0.034892   -0.059173
0.85916    0.005229   -0.002742   -0.123797
-2.25E-06    0.017021   -0.058023
1.00000    0.005229   -0.002742   -0.123797
-2.25E-06    0.068933   -0.056873

LOAD      -P2 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.013564    0.155389    0.577086
 5.29E-05    0.643236    0.150932
0.57747   -0.013564    0.155389    0.577086
 5.29E-05    0.401243    0.085771
0.71832   -0.013564    0.155389    0.577086
 5.29E-05    0.159249    0.020611
0.85916   -0.013564    0.155389    0.577086
 5.29E-05   -0.082744   -0.044550
1.00000   -0.013564    0.155389    0.577086
 5.29E-05   -0.324737   -0.109710

LOAD      -P3 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663    0.034228   -0.357783   -0.463441
-5.52E-05   -0.516594   -0.182085
0.57747    0.034228   -0.357783   -0.463441
-5.52E-05   -0.322256   -0.032054
0.71832    0.034228   -0.357783   -0.463441
-5.52E-05   -0.127919    0.117978
0.85916    0.034228   -0.357783   -0.463441
-5.52E-05    0.066419    0.268009
1.00000    0.034228   -0.357783   -0.463441
-5.52E-05    0.260757    0.418041

LOAD      -P4 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.003727    0.213563   -0.034904
 4.24E-06   -0.038320    0.096840
0.57747   -0.003727    0.213563   -0.034904
 4.24E-06   -0.023683    0.007285
0.71832   -0.003727    0.213563   -0.034904
 4.24E-06   -0.009046   -0.082270
0.85916   -0.003727    0.213563   -0.034904
 4.24E-06    0.005590   -0.171825
1.00000   -0.003727    0.213563   -0.034904
 4.24E-06    0.020227   -0.261379

LOAD      -P5 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.021831   -0.009288    0.019383
-6.70E-08    0.021294   -0.012220
0.57747   -0.021831   -0.009288    0.019383
-6.70E-08    0.013266   -0.008325
0.71832   -0.021831   -0.009288    0.019383
-6.70E-08    0.005138   -0.004430
0.85916   -0.021831   -0.009288    0.019383
-6.70E-08   -0.002990   -0.000535
1.00000   -0.021831   -0.009288    0.019383
-6.70E-08   -0.011118    0.003359

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.017626    0.369814    0.567854
 5.75E-05    0.633916    0.255778
0.57747   -0.017626    0.369814    0.567854
 5.75E-05    0.395794    0.100702
0.71832   -0.017626    0.369814    0.567854
 5.75E-05    0.157672   -0.054375
0.85916   -0.017626    0.369814    0.567854
 5.75E-05    0.080450   -0.209451
1.00000   -0.017626    0.369814    0.567854
 5.75E-05   -0.318572   -0.364528
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  632

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43663    0.017626   -0.369814   -0.567854
-5.75E-05   -0.633916   -0.255778
0.57747    0.017626   -0.369814   -0.567854
-5.75E-05   -0.395794   -0.100702
0.71832    0.017626   -0.369814   -0.567854
-5.75E-05   -0.157672    0.054375
0.85916    0.017626   -0.369814   -0.567854
-5.75E-05    0.080450    0.209451
1.00000    0.017626   -0.369814   -0.567854
-5.75E-05    0.318572    0.364528

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.43663    0.034228    0.369814    0.577086
5.75E-05    0.643236    0.255778
0.57747    0.034228    0.369814    0.577086
5.75E-05    0.401243    0.100702
0.71832    0.034228    0.369814    0.577086
5.75E-05    0.159249    0.117978
0.85916    0.034228    0.369814    0.577086
5.75E-05    0.080450    0.268009
1.00000    0.034228    0.369814    0.577086
5.75E-05    0.318572    0.418041

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.43663   -0.021831   -0.369814   -0.567854
-5.75E-05   -0.633916   -0.255778
0.57747   -0.021831   -0.369814   -0.567854
-5.75E-05   -0.395794   -0.100702
0.71832   -0.021831   -0.369814   -0.567854
-5.75E-05   -0.157672   -0.082270
0.85916   -0.021831   -0.369814   -0.567854
-5.75E-05   -0.080450   -0.209451
1.00000   -0.021831   -0.369814   -0.567854
-5.75E-05   -0.324737   -0.364528

ELEM      323 ================== LENGTH
=    2.977350

LOAD      -A1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.000800    0.000344    0.027579
-2.85E-06    0.015634    0.005834
0.14084    0.000800    0.000344    0.027579
-2.85E-06    0.004069    0.005690
0.28169    0.000800    0.000344    0.027579
-2.85E-06   -0.007495    0.005546
0.42253    0.000800    0.000344    0.027579
-2.85E-06   -0.019060    0.005402
0.56337    0.000800    0.000344    0.027579
-2.85E-06   -0.030625    0.005257

LOAD      -P1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -5.27E-05   -0.000345   -0.124865
 1.30E-05   -0.069713   -0.053480
0.14084   -5.27E-05   -0.000345   -0.124865
 1.30E-05   -0.017352   -0.053336
0.28169   -5.27E-05   -0.000345   -0.124865
 1.30E-05    0.035008   -0.053191
0.42253   -5.27E-05   -0.000345   -0.124865
 1.30E-05    0.087369   -0.053046
0.56337   -5.27E-05   -0.000345   -0.124865
 1.30E-05    0.139729   -0.052901

LOAD      -P2 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.022004    0.236145    0.572366
-2.73E-05    0.320186   -0.107471
0.14084   -0.022004    0.236145    0.572366
-2.73E-05    0.080171   -0.206496
0.28169   -0.022004    0.236145    0.572366
-2.73E-05   -0.159843   -0.305520
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  633

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
0.42253   -0.022004    0.236145    0.572366
-2.73E-05   -0.399857   -0.404545
0.56337   -0.022004    0.236145    0.572366
-2.73E-05   -0.639872   -0.503569

LOAD      -P3 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.065929   -0.548910   -0.461226
 1.39E-05   -0.258366    0.404176
0.14084    0.065929   -0.548910   -0.461226
 1.39E-05   -0.064957    0.634355
0.28169    0.065929   -0.548910   -0.461226
 1.39E-05    0.128452    0.864533
0.42253    0.065929   -0.548910   -0.461226
 1.39E-05    0.321862    1.094711
0.56337    0.065929   -0.548910   -0.461226
 1.39E-05    0.515271    1.324890

LOAD      -P4 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.028046    0.346801   -0.031956
 5.58E-06   -0.017776   -0.250376
0.14084   -0.028046    0.346801   -0.031956
 5.58E-06   -0.004376   -0.395802
0.28169   -0.028046    0.346801   -0.031956
 5.58E-06    0.009025   -0.541229
0.42253   -0.028046    0.346801   -0.031956
 5.58E-06    0.022425   -0.686655
0.56337   -0.028046    0.346801   -0.031956
 5.58E-06    0.035826   -0.832082

LOAD      -P5 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.016627   -0.034035    0.018103
-2.30E-06    0.010035    0.001317
0.14084   -0.016627   -0.034035    0.018103
-2.30E-06    0.002444    0.015589
0.28169   -0.016627   -0.034035    0.018103
-2.30E-06   -0.005147    0.029861
0.42253   -0.016627   -0.034035    0.018103
-2.30E-06   -0.012738    0.044133
0.56337   -0.016627   -0.034035    0.018103
-2.30E-06   -0.020329    0.058405

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.049249    0.583290    0.567988
-2.46E-05    0.318043   -0.352013
0.14084   -0.049249    0.583290    0.567988
-2.46E-05    0.079865   -0.596608
0.28169   -0.049249    0.583290    0.567988
-2.46E-05   -0.158314   -0.841203
0.42253   -0.049249    0.583290    0.567988
-2.46E-05   -0.396492   -1.085799
0.56337   -0.049249    0.583290    0.567988
-2.46E-05   -0.634671   -1.330394

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.049249   -0.583290   -0.567988
 2.46E-05   -0.318043    0.352013
0.14084    0.049249   -0.583290   -0.567988
 2.46E-05   -0.079865    0.596608
0.28169    0.049249   -0.583290   -0.567988
 2.46E-05    0.158314    0.841203
0.42253    0.049249   -0.583290   -0.567988
 2.46E-05    0.396492    1.085799
0.56337    0.049249   -0.583290   -0.567988
 2.46E-05    0.634671    1.330394

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
      T          M2          M3
0.00000    0.065929    0.583290    0.572366
2.46E-05    0.320186    0.404176
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                  634

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
      T          M2          M3
0.14084    0.065929    0.583290    0.572366
2.46E-05    0.080171    0.634355
0.28169    0.065929    0.583290    0.572366
2.46E-05    0.158314    0.864533
0.42253    0.065929    0.583290    0.572366
2.46E-05    0.396492    1.094711
0.56337    0.065929    0.583290    0.572366
2.46E-05    0.634671    1.330394

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
      T          M2          M3
0.00000   -0.049249   -0.583290   -0.567988
-2.73E-05   -0.318043   -0.352013
0.14084   -0.049249   -0.583290   -0.567988
-2.73E-05   -0.079865   -0.596608
0.28169   -0.049249   -0.583290   -0.567988
-2.73E-05   -0.158314   -0.841203
0.42253   -0.049249   -0.583290   -0.567988
-2.73E-05   -0.396492   -1.085799
0.56337   -0.049249   -0.583290   -0.567988
-2.73E-05   -0.634671   -1.330394

ELEM      324 ================== LENGTH
=    2.977439

LOAD      -A1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43662   -7.73E-05    0.007086    0.028584
 1.10E-06    0.032129    0.012845
0.57746   -7.73E-05    0.007086    0.028584
 1.10E-06    0.020142    0.009874
0.71831   -7.73E-05    0.007086    0.028584
 1.10E-06    0.008155    0.006902
0.85915   -7.73E-05    0.007086    0.028584
 1.10E-06   -0.003832    0.003930
1.00000   -7.73E-05    0.007086    0.028584
 1.10E-06   -0.015819    0.000958

LOAD      -P1 ------------------

REL DIST          P           V2          V3
      T          M2          M3
0.43662   -3.75E-05   -0.034423   -0.136763
-5.73E-06   -0.152899   -0.077783
0.57746   -3.75E-05   -0.034423   -0.136763
-5.73E-06   -0.095546   -0.063348
0.71831   -3.75E-05   -0.034423   -0.136763
-5.73E-06   -0.038193   -0.048912
```

0.85915 -3.75E-05 -0.034423 -0.136763
-5.73E-06 0.019160 -0.034477
1.00000 -3.75E-05 -0.034423 -0.136763
-5.73E-06 0.076513 -0.020041

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.032148 0.494586 0.545608
5.47E-05 0.607823 0.499939
0.57746 -0.032148 0.494586 0.545608
5.47E-05 0.379016 0.292530
0.71831 -0.032148 0.494586 0.545608
5.47E-05 0.150210 0.085120
0.85915 -0.032148 0.494586 0.545608
5.47E-05 -0.078596 -0.122290
1.00000 -0.032148 0.494586 0.545608
5.47E-05 -0.307402 -0.329699

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.092144 -1.006235 -0.361825
-5.21E-05 -0.403341 -0.894107
0.57746 0.092144 -1.006235 -0.361825
-5.21E-05 -0.251607 -0.472132
0.71831 0.092144 -1.006235 -0.361825
-5.21E-05 -0.099872 -0.050158
0.85915 0.092144 -1.006235 -0.361825
-5.21E-05 0.051863 0.371817
1.00000 0.092144 -1.006235 -0.361825
-5.21E-05 0.203597 0.793791
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
635

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.046290 0.598824 -0.109309
1.81E-06 -0.121158 0.524880
0.57746 -0.046290 0.598824 -0.109309
1.81E-06 -0.075318 0.273758
0.71831 -0.046290 0.598824 -0.109309
1.81E-06 -0.029478 0.022635
0.85915 -0.046290 0.598824 -0.109309
1.81E-06 0.016362 -0.228488
1.00000 -0.046290 0.598824 -0.109309
1.81E-06 0.062202 -0.479610

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.013591 -0.059839 0.033706
1.62E-07 0.037447 -0.065774
0.57746 -0.013591 -0.059839 0.033706
1.62E-07 0.023312 -0.040681
0.71831 -0.013591 -0.059839 0.033706
1.62E-07 0.009177 -0.015587
0.85915 -0.013591 -0.059839 0.033706
1.62E-07 -0.004958 0.009507
1.00000 -0.013591 -0.059839 0.033706
1.62E-07 -0.019092 0.034601

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43662 -0.078515 1.100497 0.464882
5.77E-05 0.518793 1.037665
0.57746 -0.078515 1.100497 0.464882
5.77E-05 0.323840 0.576161
0.71831 -0.078515 1.100497 0.464882
5.77E-05 0.128888 0.114657
0.85915 -0.078515 1.100497 0.464882
5.77E-05 -0.066065 -0.346848
1.00000 -0.078515 1.100497 0.464882
5.77E-05 -0.261018 -0.808352

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43662 0.078515 -1.100497 -0.464882
-5.77E-05 -0.518793 -1.037665
0.57746 0.078515 -1.100497 -0.464882
-5.77E-05 -0.323840 -0.576161
0.71831 0.078515 -1.100497 -0.464882
-5.77E-05 -0.128888 -0.114657
0.85915 0.078515 -1.100497 -0.464882
-5.77E-05 0.066065 0.346848
1.00000 0.078515 -1.100497 -0.464882
-5.77E-05 0.261018 0.808352

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43662 0.092144 1.100497 0.545608
5.77E-05 0.607823 1.037665
0.57746 0.092144 1.100497 0.545608
5.77E-05 0.379016 0.576161
0.71831 0.092144 1.100497 0.545608
5.77E-05 0.150210 0.114657
0.85915 0.092144 1.100497 0.545608
5.77E-05 0.066065 0.371817
1.00000 0.092144 1.100497 0.545608
5.77E-05 0.261018 0.808352

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43662 -0.078515 -1.100497 -0.464882
-5.77E-05 -0.518793 -1.037665
0.57746 -0.078515 -1.100497 -0.464882
-5.77E-05 -0.323840 -0.576161
0.71831 -0.078515 -1.100497 -0.464882
-5.77E-05 -0.128888 -0.114657
0.85915 -0.078515 -1.100497 -0.464882
-5.77E-05 -0.078596 -0.346848
1.00000 -0.078515 -1.100497 -0.464882
-5.77E-05 -0.307402 -0.808352
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
636

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 325 ========== LENGTH = 2.977448

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.000339 0.015144 0.029956
-4.11E-06 0.016940 0.000860
0.14085 -0.000339 0.015144 0.029956
-4.11E-06 0.004377 -0.005491
0.28169 -0.000339 0.015144 0.029956
-4.11E-06 -0.008185 -0.011842
0.42254 -0.000339 0.015144 0.029956
-4.11E-06 -0.020748 -0.018192
0.56338 -0.000339 0.015144 0.029956
-4.11E-06 -0.033310 -0.024543

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.001235 -0.071972 -0.137312
1.89E-05 -0.076839 -0.019584
0.14085 0.001235 -0.071972 -0.137312
1.89E-05 -0.019256 0.010598
0.28169 0.001235 -0.071972 -0.137312
1.89E-05 0.038328 0.040780
0.42254 0.001235 -0.071972 -0.137312
1.89E-05 0.095911 0.070962
0.56338 0.001235 -0.071972 -0.137312
1.89E-05 0.153494 0.101144

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.041398 0.481612 0.540736
-3.14E-05 0.302768 -0.324098
0.14085 -0.041398 0.481612 0.540736
-3.14E-05 0.076004 -0.526067
0.28169 -0.041398 0.481612 0.540736
-3.14E-05 -0.150760 -0.728037
0.42254 -0.041398 0.481612 0.540736
-3.14E-05 -0.377524 -0.930007
0.56338 -0.041398 0.481612 0.540736
-3.14E-05 -0.604288 -1.131977

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.109128 -0.879849 -0.360581
6.98E-06 -0.202153 0.779796
0.14085 0.109128 -0.879849 -0.360581
6.98E-06 -0.050939 1.148771
0.28169 0.109128 -0.879849 -0.360581
6.98E-06 0.100275 1.517746
0.42254 0.109128 -0.879849 -0.360581
6.98E-06 0.251489 1.886721
0.56338 0.109128 -0.879849 -0.360581
6.98E-06 0.402703 2.255696

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.057800 0.495863 -0.105922
1.38E-05 -0.059295 -0.469747
0.14085 -0.057800 0.495863 -0.105922
1.38E-05 -0.014876 -0.677693
0.28169 -0.057800 0.495863 -0.105922
1.38E-05 0.029544 -0.885639
0.42254 -0.057800 0.495863 -0.105922
1.38E-05 0.073963 -1.093585
0.56338 -0.057800 0.495863 -0.105922
1.38E-05 0.118383 -1.301531

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.010827 -0.040798 0.033123
-4.23E-06 0.018579 0.032773
0.14085 -0.010827 -0.040798 0.033123
-4.23E-06 0.004689 0.049883
0.28169 -0.010827 -0.040798 0.033123
-4.23E-06 -0.009201 0.066992
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
637

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42254 -0.010827 -0.040798 0.033123
-4.23E-06 -0.023092 0.084101
0.56338 -0.010827 -0.040798 0.033123
-4.23E-06 -0.036982 0.101210

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.099536 0.992619 0.464770
-2.16E-05 0.260413 -0.792985
0.14085 -0.099536 0.992619 0.464770
-2.16E-05 0.065506 -1.209251
0.28169 -0.099536 0.992619 0.464770
-2.16E-05 -0.129401 -1.625518
0.42254 -0.099536 0.992619 0.464770
-2.16E-05 -0.324308 -2.041785
0.56338 -0.099536 0.992619 0.464770
-2.16E-05 -0.519215 -2.458051

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.099536 -0.992619 -0.464770
2.16E-05 -0.260413 0.792985
0.14085 0.099536 -0.992619 -0.464770
2.16E-05 -0.065506 1.209251
0.28169 0.099536 -0.992619 -0.464770
2.16E-05 0.129401 1.625518
0.42254 0.099536 -0.992619 -0.464770
2.16E-05 0.324308 2.041785
0.56338 0.099536 -0.992619 -0.464770
2.16E-05 0.519215 2.458051

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.109128 0.992619 0.540736
2.16E-05 0.302768 0.792985
0.14085 0.109128 0.992619 0.540736
2.16E-05 0.076004 1.209251
0.28169 0.109128 0.992619 0.540736
2.16E-05 0.129401 1.625518
0.42254 0.109128 0.992619 0.540736
2.16E-05 0.324308 2.041785
0.56338 0.109128 0.992619 0.540736
2.16E-05 0.519215 2.458051

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.099536 -0.992619 -0.464770
-3.14E-05 -0.260413 -0.792985
0.14085 -0.099536 -0.992619 -0.464770
-3.14E-05 -0.065506 -1.209251
0.28169 -0.099536 -0.992619 -0.464770
-3.14E-05 -0.150760 -1.625518
0.42254 -0.099536 -0.992619 -0.464770
-3.14E-05 -0.377524 -2.041785
0.56338 -0.099536 -0.992619 -0.464770
-3.14E-05 -0.604288 -2.458051

ELEM 326 ========== LENGTH = 2.976624

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43674 -0.000897 0.021949 0.027908
3.65E-07 0.031346 0.028932
0.57755 -0.000897 0.021949 0.027908
3.65E-07 0.019648 0.019732
0.71837 -0.000897 0.021949 0.027908
3.65E-07 0.007951 0.010532
0.85918 -0.000897 0.021949 0.027908
3.65E-07 -0.003747 0.001332
1.00000 -0.000897 0.021949 0.027908
3.65E-07 -0.015445 -0.007868
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
638

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43674 -0.002394 -0.106760 -0.132905
-2.20E-06 -0.148664 -0.151236
0.57755 -0.002394 -0.106760 -0.132905
-2.20E-06 -0.092956 -0.106487
0.71837 -0.002394 -0.106760 -0.132905
-2.20E-06 -0.037248 -0.061738
0.85918 -0.002394 -0.106760 -0.132905
-2.20E-06 0.018460 -0.016989
1.00000 -0.002394 -0.106760 -0.132905
-2.20E-06 0.074168 0.027760

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43674 -0.006640 0.851162 0.486921
4.44E-05 0.543094 0.989713
0.57755 -0.006640 0.851162 0.486921
4.44E-05 0.338999 0.632944
0.71837 -0.006640 0.851162 0.486921
4.44E-05 0.134903 0.276175
0.85918 -0.006640 0.851162 0.486921
4.44E-05 -0.069193 -0.080595
1.00000 -0.006640 0.851162 0.486921
4.44E-05 -0.273289 -0.437364

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43674 0.059354 -1.546817 -0.243442
-3.96E-05 -0.271777 -1.703237
0.57755 0.059354 -1.546817 -0.243442
-3.96E-05 -0.169737 -1.054879
0.71837 0.059354 -1.546817 -0.243442
-3.96E-05 -0.067697 -0.406521
0.85918 0.059354 -1.546817 -0.243442
-3.96E-05 0.034343 0.241836
1.00000 0.059354 -1.546817 -0.243442
-3.96E-05 0.136383 0.890194

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43674 -0.036010 0.853962 -0.187163
-3.63E-06 -0.208241 0.929397
0.57755 -0.036010 0.853962 -0.187163
-3.63E-06 -0.129790 0.571454
0.71837 -0.036010 0.853962 -0.187163
-3.63E-06 -0.051340 0.213510
0.85918 -0.036010 0.853962 -0.187163
-3.63E-06 0.027111 -0.144433
1.00000 -0.036010 0.853962 -0.187163
-3.63E-06 0.105561 -0.502376

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43674 -0.013413 -0.073496 0.048681
6.40E-07 0.054241 -0.093570
0.57755 -0.013413 -0.073496 0.048681
6.40E-07 0.033836 -0.062763
0.71837 -0.013413 -0.073496 0.048681
6.40E-07 0.013431 -0.031957
0.85918 -0.013413 -0.073496 0.048681
6.40E-07 -0.006974 -0.001151
1.00000 -0.013413 -0.073496 0.048681
6.40E-07 -0.027379 0.029656

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43674 -0.043547 1.727073 0.327666
4.11E-05 0.366200 1.948042
0.57755 -0.043547 1.727073 0.327666
4.11E-05 0.228857 1.224130
0.71837 -0.043547 1.727073 0.327666
4.11E-05 0.091514 0.500217
0.85918 -0.043547 1.727073 0.327666
4.11E-05 -0.045829 -0.223696
1.00000 -0.043547 1.727073 0.327666
4.11E-05 -0.183173 -0.947609
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
639

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43674 0.043547 -1.727073 -0.327666
-4.11E-05 -0.366200 -1.948042
0.57755 0.043547 -1.727073 -0.327666
-4.11E-05 -0.228857 -1.224130
0.71837 0.043547 -1.727073 -0.327666
-4.11E-05 -0.091514 -0.500217
0.85918 0.043547 -1.727073 -0.327666
-4.11E-05 0.045829 0.223696
1.00000 0.043547 -1.727073 -0.327666
-4.11E-05 0.183173 0.947609

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43674 0.059354 1.727073 0.486921
4.44E-05 0.543094 1.948042
0.57755 0.059354 1.727073 0.486921
4.44E-05 0.338999 1.224130
0.71837 0.059354 1.727073 0.486921
4.44E-05 0.134903 0.500217
0.85918 0.059354 1.727073 0.486921
4.44E-05 0.045829 0.241836
1.00000 0.059354 1.727073 0.486921
4.44E-05 0.183173 0.947609

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43674 -0.043547 -1.727073 -0.327666
-4.11E-05 -0.366200 -1.948042
0.57755 -0.043547 -1.727073 -0.327666
-4.11E-05 -0.228857 -1.224130
0.71837 -0.043547 -1.727073 -0.327666
-4.11E-05 -0.091514 -0.500217
0.85918 -0.043547 -1.727073 -0.327666
-4.11E-05 -0.069193 -0.223696
1.00000 -0.043547 -1.727073 -0.327666
-4.11E-05 -0.273289 -0.947609

ELEM 327 ========== LENGTH = 2.977608

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.001797 0.025155 0.028813
-3.42E-06 0.016193 -0.007547
0.14085 -0.001797 0.025155 0.028813
-3.42E-06 0.004109 -0.018097
0.28170 -0.001797 0.025155 0.028813
-3.42E-06 -0.007975 -0.028647
0.42256 -0.001797 0.025155 0.028813
-3.42E-06 -0.020059 -0.039197
0.56341 -0.001797 0.025155 0.028813
-3.42E-06 -0.032143 -0.049746

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.001916 -0.121637 -0.132728
1.57E-05 -0.073982 0.026260
0.14085 0.001916 -0.121637 -0.132728
1.57E-05 -0.018316 0.077275
0.28170 0.001916 -0.121637 -0.132728
1.57E-05 0.037351 0.128290
0.42256 0.001916 -0.121637 -0.132728
1.57E-05 0.093017 0.179305
0.56341 0.001916 -0.121637 -0.132728
1.57E-05 0.148684 0.230320

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.029904 0.915530 0.480290
-2.43E-05 0.267659 -0.427618
0.14085 -0.029904 0.915530 0.480290
-2.43E-05 0.066224 -0.811593
0.28170 -0.029904 0.915530 0.480290
-2.43E-05 -0.135211 -1.195568
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
640

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42256 -0.029904 0.915530 0.480290
-2.43E-05 -0.336645 -1.579544
0.56341 -0.029904 0.915530 0.480290
-2.43E-05 -0.538080 -1.963519

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.095922 -1.656244 -0.240899
-2.62E-06 -0.134316 0.871759
0.14085 0.095922 -1.656244 -0.240899
-2.62E-06 -0.033283 1.566391
0.28170 0.095922 -1.656244 -0.240899
-2.62E-06 0.067751 2.261023
0.42256 0.095922 -1.656244 -0.240899
-2.62E-06 0.168784 2.955656
0.56341 0.095922 -1.656244 -0.240899
-2.62E-06 0.269818 3.650288

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.057104 0.923752 -0.183659
2.07E-05 -0.102490 -0.490271
0.14085 -0.057104 0.923752 -0.183659
2.07E-05 -0.025463 -0.877695
0.28170 -0.057104 0.923752 -0.183659
2.07E-05 0.051563 -1.265118
0.42256 -0.057104 0.923752 -0.183659
2.07E-05 0.128590 -1.652542
0.56341 -0.057104 0.923752 -0.183659
2.07E-05 0.205617 -2.039965

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.009033 -0.086555 0.048183
-6.09E-06 0.026936 0.027417
0.14085 -0.009033 -0.086555 0.048183
-6.09E-06 0.006729 0.063719
0.28170 -0.009033 -0.086555 0.048183
-6.09E-06 -0.013479 0.100020
0.42256 -0.009033 -0.086555 0.048183
-6.09E-06 -0.033687 0.136321
0.56341 -0.009033 -0.086555 0.048183
-6.09E-06 -0.053895 0.172623

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.088805 1.864437 0.325444
-6.98E-06 0.181362 -0.925437
0.14085 -0.088805 1.864437 0.325444
-6.98E-06 0.044870 -1.707385
0.28170 -0.088805 1.864437 0.325444
-6.98E-06 -0.091622 -2.489333
0.42256 -0.088805 1.864437 0.325444
-6.98E-06 -0.228114 -3.271282
0.56341 -0.088805 1.864437 0.325444
-6.98E-06 -0.364606 -4.053230

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.088805 -1.864437 -0.325444
6.98E-06 -0.181362 0.925437
0.14085 0.088805 -1.864437 -0.325444
6.98E-06 -0.044870 1.707385
0.28170 0.088805 -1.864437 -0.325444
6.98E-06 0.091622 2.489333
0.42256 0.088805 -1.864437 -0.325444
6.98E-06 0.228114 3.271282
0.56341 0.088805 -1.864437 -0.325444
6.98E-06 0.364606 4.053230

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.095922 1.864437 0.480290
2.07E-05 0.267659 0.925437
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
641

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14085 0.095922 1.864437 0.480290
2.07E-05 0.066224 1.707385
0.28170 0.095922 1.864437 0.480290
2.07E-05 0.091622 2.489333
0.42256 0.095922 1.864437 0.480290
2.07E-05 0.228114 3.271282
0.56341 0.095922 1.864437 0.480290
2.07E-05 0.364606 4.053230

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.088805 -1.864437 -0.325444
-2.43E-05 -0.181362 -0.925437
0.14085 -0.088805 -1.864437 -0.325444
-2.43E-05 -0.044870 -1.707385
0.28170 -0.088805 -1.864437 -0.325444
-2.43E-05 -0.135211 -2.489333
0.42256 -0.088805 -1.864437 -0.325444
-2.43E-05 -0.336645 -3.271282
0.56341 -0.088805 -1.864437 -0.325444
-2.43E-05 -0.538080 -4.053230

ELEM 328 ========== LENGTH = 2.976854

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43670 -0.003352 0.037391 0.026400
3.06E-07 0.028604 0.052269
0.57753 -0.003352 0.037391 0.026400
3.06E-07 0.017537 0.036594
0.71835 -0.003352 0.037391 0.026400
3.06E-07 0.006470 0.020919
0.85918 -0.003352 0.037391 0.026400
3.06E-07 -0.004597 0.005245
1.00000 -0.003352 0.037391 0.026400

```
 3.06E-07   -0.015664   -0.010430

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43670    0.000795   -0.181086   -0.125023
-1.74E-06  -0.135072   -0.260550
0.57753    0.000795   -0.181086   -0.125023
-1.74E-06  -0.082661   -0.184637
0.71835    0.000795   -0.181086   -0.125023
-1.74E-06  -0.030250   -0.108723
0.85918    0.000795   -0.181086   -0.125023
-1.74E-06  0.022162    -0.032810
1.00000    0.000795   -0.181086   -0.125023
-1.74E-06  0.074573    0.043104

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43670    0.048002   1.287255    0.435002
3.22E-05   0.468936   1.662653
0.57753    0.048002   1.287255    0.435002
3.22E-05   0.286578   1.123018
0.71835    0.048002   1.287255    0.435002
3.22E-05   0.104219   0.583383
0.85918    0.048002   1.287255    0.435002
3.22E-05   -0.078140  0.043749
1.00000    0.048002   1.287255    0.435002
3.22E-05   -0.260498  -0.495886

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43670   -0.094186   -2.297652   -0.114534
-1.87E-05  -0.123032   -2.881137
0.57753   -0.094186   -2.297652   -0.114534
-1.87E-05  -0.075018   -1.917930
0.71835   -0.094186   -2.297652   -0.114534
-1.87E-05  -0.027004   -0.954723
0.85918   -0.094186   -2.297652   -0.114534
-1.87E-05  0.021010    0.008483
1.00000   -0.094186   -2.297652   -0.114534
-1.87E-05  0.069024    0.971690
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         642

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43670    0.080968   1.268055    -0.291383
-1.33E-05  -0.314502   1.586420
0.57753    0.080968   1.268055    -0.291383
-1.33E-05  -0.192350   1.054835
0.71835    0.080968   1.268055    -0.291383
-1.33E-05  -0.070199   0.523249
0.85918    0.080968   1.268055    -0.291383
-1.33E-05  0.051953    -0.008337
1.00000    0.080968   1.268055    -0.291383
-1.33E-05  0.174104    -0.539922

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43670   -0.032227   -0.113963   0.069538
 1.26E-06  0.075066   -0.159655
0.57753   -0.032227   -0.113963   0.069538
 1.26E-06  0.045914   -0.111880
0.71835   -0.032227   -0.113963   0.069538
 1.26E-06  0.016763   -0.064105
0.85918   -0.032227   -0.113963   0.069538
 1.26E-06  -0.012388  -0.016330
1.00000   -0.032227   -0.113963   0.069538
 1.26E-06  -0.041539  0.031444

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43670    0.125618   2.592700    0.170019
1.92E-05   0.183038   3.301342
0.57753    0.125618   2.592700    0.170019
1.92E-05   0.111764   2.214447
0.71835    0.125618   2.592700    0.170019
1.92E-05   0.040490   1.127552
0.85918    0.125618   2.592700    0.170019
1.92E-05   -0.030784  0.040657
1.00000    0.125618   2.592700    0.170019
1.92E-05   -0.102058  -1.046238

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43670   -0.125618   -2.592700   -0.170019
-1.92E-05  -0.183038   -3.301342
0.57753   -0.125618   -2.592700   -0.170019
-1.92E-05  -0.111764   -2.214447
0.71835   -0.125618   -2.592700   -0.170019
-1.92E-05  -0.040490   -1.127552
0.85918   -0.125618   -2.592700   -0.170019
-1.92E-05  0.030784    -0.040657
1.00000   -0.125618   -2.592700   -0.170019
-1.92E-05  0.102058    1.046238

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43670    0.125618   2.592700    0.435002
3.22E-05   0.468936   3.301342
0.57753    0.125618   2.592700    0.435002
3.22E-05   0.286578   2.214447
0.71835    0.125618   2.592700    0.435002
3.22E-05   0.104219   1.127552
0.85918    0.125618   2.592700    0.435002
3.22E-05   0.051953   0.043749
1.00000    0.125618   2.592700    0.435002
3.22E-05   0.174104   1.046238

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43670   -0.125618   -2.592700   -0.291383
-1.92E-05  -0.314502   -3.301342
0.57753   -0.125618   -2.592700   -0.291383
-1.92E-05  -0.192350   -2.214447
0.71835   -0.125618   -2.592700   -0.291383
-1.92E-05  -0.070199   -1.127552
0.85918   -0.125618   -2.592700   -0.291383
-1.92E-05  -0.078140   -0.040657
1.00000   -0.125618   -2.592700   -0.291383
-1.92E-05  -0.260498   -1.046238
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         643

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      329 ================== LENGTH
=     2.977871

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.000150   0.043010    0.026997
-3.14E-06  0.016159   -0.009848
0.14086    0.000150   0.043010    0.026997
-3.14E-06  0.004834   -0.027889
0.28172    0.000150   0.043010    0.026997
-3.14E-06  -0.006490  -0.045930
0.42258    0.000150   0.043010    0.026997
-3.14E-06  -0.017815  -0.063971
0.56345    0.000150   0.043010    0.026997
-3.14E-06  -0.029139  -0.082012

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.015410   -0.207502   -0.124552
 1.44E-05  -0.074159   0.040387
0.14086   -0.015410   -0.207502   -0.124552
 1.44E-05  -0.021913   0.127428
0.28172   -0.015410   -0.207502   -0.124552
 1.44E-05  0.030333    0.214468
0.42258   -0.015410   -0.207502   -0.124552
 1.44E-05  0.082578    0.301508
0.56345   -0.015410   -0.207502   -0.124552
 1.44E-05  0.134824    0.388549

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.101930   1.345651    0.428072
-2.08E-05  0.254746   -0.485334
0.14086    0.101930   1.345651    0.428072
-2.08E-05  0.075183   -1.049791
0.28172    0.101930   1.345651    0.428072
-2.08E-05  -0.104379  -1.614249
0.42258    0.101930   1.345651    0.428072
-2.08E-05  -0.283941  -2.178706
0.56345    0.101930   1.345651    0.428072
-2.08E-05  -0.463504  -2.743163

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.075044   -2.361485   -0.111386
-6.73E-06  -0.066674   0.954554
0.14086   -0.075044   -2.361485   -0.111386
-6.73E-06  -0.019951   1.945120
0.28172   -0.075044   -2.361485   -0.111386
-6.73E-06  0.026772    2.935687
0.42258   -0.075044   -2.361485   -0.111386
-6.73E-06  0.073495    3.926254
0.56345   -0.075044   -2.361485   -0.111386
-6.73E-06  0.120218    4.916821

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.002757   1.299843    -0.287990
 2.38E-05  -0.170995   -0.529234
0.14086    0.002757   1.299843    -0.287990
 2.38E-05  -0.050192   -1.074477
0.28172    0.002757   1.299843    -0.287990
 2.38E-05  0.070610    -1.619719
0.42258    0.002757   1.299843    -0.287990
 2.38E-05  0.191413    -2.164962
0.56345    0.002757   1.299843    -0.287990
 2.38E-05  0.312216    -2.710204

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.014382   -0.119517   0.068860
-7.55E-06  0.040923    0.029476
0.14086   -0.014382   -0.119517   0.068860
-7.55E-06  0.012039    0.079609
0.28172   -0.014382   -0.119517   0.068860
-7.55E-06  -0.016845   0.129743
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         644

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42258   -0.014382   -0.119517   0.068860
-7.55E-06  -0.045730   0.179877
0.56345   -0.014382   -0.119517   0.068860
-7.55E-06  -0.074614   0.230010

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.104836   2.688504    0.167079
-1.26E-07  0.099909    -1.024416
0.14086    0.104836   2.688504    0.167079
-1.26E-07  0.029825    2.152157
0.28172    0.104836   2.688504    0.167079
-1.26E-07  -0.040259   -3.279898
0.42258    0.104836   2.688504    0.167079
-1.26E-07  -0.110343   -4.407639
0.56345    0.104836   2.688504    0.167079
-1.26E-07  -0.180427   -5.535380

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.104836   -2.688504   -0.167079
 1.26E-07  -0.099909   1.024416
0.14086   -0.104836   -2.688504   -0.167079
 1.26E-07  -0.029825   2.152157
0.28172   -0.104836   -2.688504   -0.167079
 1.26E-07  0.040259    3.279898
0.42258   -0.104836   -2.688504   -0.167079
 1.26E-07  0.110343    4.407639
0.56345   -0.104836   -2.688504   -0.167079
 1.26E-07  0.180427    5.535380

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.104836   2.688504    0.428072
2.38E-05   0.254746   1.024416
0.14086    0.104836   2.688504    0.428072
2.38E-05   0.075183   2.152157
0.28172    0.104836   2.688504    0.428072
2.38E-05   0.070610   3.279898
0.42258    0.104836   2.688504    0.428072
2.38E-05   0.191413   4.407639
0.56345    0.104836   2.688504    0.428072
2.38E-05   0.312216   5.535380

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.104836   -2.688504   -0.287990
-2.08E-05  -0.170995   -1.024416
0.14086   -0.104836   -2.688504   -0.287990
-2.08E-05  -0.050192   -2.152157
0.28172   -0.104836   -2.688504   -0.287990
-2.08E-05  -0.104379   -3.279898
0.42258   -0.104836   -2.688504   -0.287990
-2.08E-05  -0.283941   -4.407639
0.56345   -0.104836   -2.688504   -0.287990
-2.08E-05  -0.463504   -5.535380

ELEM      330 ================== LENGTH
=     2.977081

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43667   -0.000785   0.038528    0.024169
-3.29E-08  0.025395    0.054649
0.57750   -0.000785   0.038528    0.024169
-3.29E-08  0.015262    0.038495
0.71833   -0.000785   0.038528    0.024169
-3.29E-08  0.005128    0.022341
0.85917   -0.000785   0.038528    0.024169
-3.29E-08  -0.005005   0.006188
1.00000   -0.000785   0.038528    0.024169
-3.29E-08  -0.015138   -0.009966
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         645

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43667   -0.014531   -0.192753   -0.113838
-7.80E-08  -0.119346   -0.281948
0.57750   -0.014531   -0.192753   -0.113838
-7.80E-08  -0.070617   -0.201132
0.71833   -0.014531   -0.192753   -0.113838
-7.80E-08  -0.023888   -0.120316
0.85917   -0.014531   -0.192753   -0.113838
-7.80E-08  0.023841    -0.039501
1.00000   -0.014531   -0.192753   -0.113838
-7.80E-08  0.071570    0.041315

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43667    0.137070   1.617820    0.387492
2.00E-05   0.405755   2.228226
0.57750    0.137070   1.617820    0.387492
2.00E-05   0.243291   1.549922
0.71833    0.137070   1.617820    0.387492
2.00E-05   0.080827   0.871618
0.85917    0.137070   1.617820    0.387492
2.00E-05   -0.081637  0.193314
1.00000    0.137070   1.617820    0.387492
2.00E-05   -0.244101  -0.484990

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43667   -0.203422   -2.869936   -0.003778
-8.16E-09  -0.003971   -3.876257
0.57750   -0.203422   -2.869936   -0.003778
-8.16E-09  -0.002387   -2.672978
0.71833   -0.203422   -2.869936   -0.003778
-8.16E-09  -0.000803   -1.469699
0.85917   -0.203422   -2.869936   -0.003778
-8.16E-09  0.000781    -0.266420
1.00000   -0.203422   -2.869936   -0.003778
-8.16E-09  0.002365    0.936859

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43667    0.118866   1.563010    -0.381641
-2.16E-05  -0.399537   2.119085
0.57750    0.118866   1.563010    -0.381641
-2.16E-05  -0.239526   1.463761
0.71833    0.118866   1.563010    -0.381641
-2.16E-05  -0.079515   0.808438
0.85917    0.118866   1.563010    -0.381641
-2.16E-05  0.080495    0.153114
1.00000    0.118866   1.563010    -0.381641
-2.16E-05  0.240506    -0.502210

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43667   -0.037197   -0.156669   0.087596
 1.66E-06  0.091704   -0.243756
0.57750   -0.037197   -0.156669   0.087596
 1.66E-06  0.054978   -0.176069
0.71833   -0.037197   -0.156669   0.087596
 1.66E-06  0.018251   -0.112382
0.85917   -0.037197   -0.156669   0.087596
 1.66E-06  -0.018475  -0.046695
1.00000   -0.037197   -0.156669   0.087596
 1.66E-06  -0.055202  0.018992

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43667    0.255150   3.219358    0.030020
-1.58E-06  0.031613   4.401960
0.57750    0.255150   3.219358    0.030020
-1.58E-06  0.019026   3.052179
0.71833    0.255150   3.219358    0.030020
-1.58E-06  0.006440   1.702397
0.85917    0.255150   3.219358    0.030020
-1.58E-06  -0.006147  0.352616
1.00000    0.255150   3.219358    0.030020
-1.58E-06  -0.018733  -0.997166
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         646

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.43667   -0.255150   -3.219358   -0.030020
 1.58E-06  -0.031613   -4.401960
0.57750   -0.255150   -3.219358   -0.030020
 1.58E-06  -0.019026   -3.052179
0.71833   -0.255150   -3.219358   -0.030020
 1.58E-06  -0.006440   -1.702397
0.85917   -0.255150   -3.219358   -0.030020
 1.58E-06  0.006147    -0.352616
1.00000   -0.255150   -3.219358   -0.030020
 1.58E-06  0.018733    0.997166

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.43667    0.255150   3.219358    0.387492
2.00E-05   0.405755   4.401960
0.57750    0.255150   3.219358    0.387492
2.00E-05   0.243291   3.052179
0.71833    0.255150   3.219358    0.387492
2.00E-05   0.080827   1.702397
0.85917    0.255150   3.219358    0.387492
2.00E-05   0.080495   0.352616
1.00000    0.255150   3.219358    0.387492
2.00E-05   0.240506   0.997166

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.43667   -0.255150   -3.219358   -0.381641
-2.16E-05  -0.399537   -4.401960
0.57750   -0.255150   -3.219358   -0.381641
-2.16E-05  -0.239526   -3.052179
0.71833   -0.255150   -3.219358   -0.381641
-2.16E-05  -0.079515   -1.702397
0.85917   -0.255150   -3.219358   -0.381641
-2.16E-05  -0.081637   -0.352616
1.00000   -0.255150   -3.219358   -0.381641
-2.16E-05  -0.244101   -0.997166

ELEM      331 ================== LENGTH
=     2.977081

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.002788   0.044779    0.024696
-2.68E-06  0.015557    -0.009413
0.14083   -0.002788   0.044779    0.024696
-2.68E-06  0.005203    -0.028187
0.28167   -0.002788   0.044779    0.024696
-2.68E-06  -0.005151  -0.046962
0.42250   -0.002788   0.044779    0.024696
-2.68E-06  -0.015505  -0.065737
0.56333   -0.002788   0.044779    0.024696
-2.68E-06  -0.025859  -0.084511

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.004996   -0.221563   -0.113761
 1.23E-05  -0.071399   0.038735
0.14083   -0.004996   -0.221563   -0.113761
 1.23E-05  -0.023702   0.131630
0.28167   -0.004996   -0.221563   -0.113761
 1.23E-05  0.023994    0.224525
0.42250   -0.004996   -0.221563   -0.113761
 1.23E-05  0.071690    0.317419
0.56333   -0.004996   -0.221563   -0.113761
 1.23E-05  0.119387    0.410314

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.108209   1.620047    0.383594
-2.16E-05  0.240472   -0.475517
0.14083    0.108209   1.620047    0.383594
-2.16E-05  0.079643   -1.155554
0.28167    0.108209   1.620047    0.383594
-2.16E-05  -0.081187  -1.834792
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         647

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.42250    0.108209   1.620047    0.383594
-2.16E-05  -0.242016  -2.514030
0.56333    0.108209   1.620047    0.383594
-2.16E-05  -0.402846  -3.193268

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.162072   -2.829396   -0.003963
 2.86E-07  -0.002508   0.923849
0.14083   -0.162072   -2.829396   -0.003963
 2.86E-07  -0.000846   2.109931
0.28167   -0.162072   -2.829396   -0.003963
 2.86E-07  0.000815    3.296212
0.42250   -0.162072   -2.829396   -0.003963
 2.86E-07  0.002477    4.482494
0.56333   -0.162072   -2.829396   -0.003963
 2.86E-07  0.004138    5.668776

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.092736   1.558643    -0.376955
 1.94E-05  -0.236229   -0.494166
0.14083    0.092736   1.558643    -0.376955
 1.94E-05  -0.078183   -1.147658
0.28167    0.092736   1.558643    -0.376955
 1.94E-05  0.079863    -1.801151
0.42250    0.092736   1.558643    -0.376955
 1.94E-05  0.237909    -2.454644
0.56333    0.092736   1.558643    -0.376955
 1.94E-05  0.395955    -3.108137

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.031089   -0.172511   0.086389
-7.76E-06  0.054106   0.017511
0.14083   -0.031089   -0.172511   0.086389
-7.76E-06  0.017886   0.089840
0.28167   -0.031089   -0.172511   0.086389
-7.76E-06  -0.018335  0.162339
0.42250   -0.031089   -0.172511   0.086389
-7.76E-06  -0.054555  0.234498
0.56333   -0.031089   -0.172511   0.086389
-7.76E-06  -0.090775  0.306827

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.198157   3.223470    0.031335
-4.84E-06  0.019801   -0.979895
0.14083    0.198157   3.223470    0.031335
-4.84E-06  0.006663   2.331400
0.28167    0.198157   3.223470    0.031335
-4.84E-06  -0.006475  3.682906
0.42250    0.198157   3.223470    0.031335
-4.84E-06  -0.019613  5.034411
0.56333    0.198157   3.223470    0.031335
-4.84E-06  -0.032750  6.385916

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.198157   -3.223470   -0.031335
 4.84E-06  -0.019801   0.979895
0.14083   -0.198157   -3.223470   -0.031335
 4.84E-06  -0.006663   2.331400
0.28167   -0.198157   -3.223470   -0.031335
 4.84E-06  0.006475    3.682906
0.42250   -0.198157   -3.223470   -0.031335
 4.84E-06  0.019613    5.034411
0.56333   -0.198157   -3.223470   -0.031335
 4.84E-06  0.032750    6.385916

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.198157   3.223470    0.383594
1.94E-05   0.240472   0.979895
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL              SETTLEMENT              >
                                         648

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.14083    0.198157   3.223470    0.383594
1.94E-05   0.079643   2.331400
0.28167    0.198157   3.223470    0.383594
1.94E-05   0.079863   3.682906
0.42250    0.198157   3.223470    0.383594
1.94E-05   0.237909   5.034411
0.56333    0.198157   3.223470    0.383594
1.94E-05   0.395955   6.385916

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.198157   -3.223470   -0.376955
-2.16E-05  -0.236229   -0.979895
0.14083   -0.198157   -3.223470   -0.376955
-2.16E-05  -0.078183   -2.331400
0.28167   -0.198157   -3.223470   -0.376955
-2.16E-05  -0.081187   -3.682906
0.42250   -0.198157   -3.223470   -0.376955
-2.16E-05  -0.242016   -5.034411
0.56333   -0.198157   -3.223470   -0.376955
-2.16E-05  -0.402846   -6.385916

ELEM      332 ================== LENGTH
=     2.977323

LOAD      -A1 --------------------
```

REL DIST P V2 V3
T M2 M3
0.43663 -0.000980 0.027220 0.018517
-1.10E-07 -0.000980 0.027220
0.57748 -0.000980 0.027220 0.018517
-1.10E-07 0.012309 0.021496
0.71832 -0.000980 0.027220 0.018517
-1.10E-07 0.004544 0.010082
0.85916 -0.000980 0.027220 0.018517
-1.10E-07 -0.003221 -0.001332
1.00000 -0.000980 0.027220 0.018517
-1.10E-07 -0.010985 -0.012747

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.009870 -0.135764 -0.086727
3.59E-07 -0.093774 -0.170527
0.57748 -0.009870 -0.135764 -0.086727
3.59E-07 -0.057407 -0.113597
0.71832 -0.009870 -0.135764 -0.086727
3.59E-07 -0.021039 -0.056667
0.85916 -0.009870 -0.135764 -0.086727
3.59E-07 0.015328 0.000263
1.00000 -0.009870 -0.135764 -0.086727
3.59E-07 0.051696 0.057193

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.086362 1.295219 0.290627
1.14E-05 0.313912 1.646973
0.57748 0.086362 1.295219 0.290627
1.14E-05 0.192043 1.103848
0.71832 0.086362 1.295219 0.290627
1.14E-05 0.070174 0.560722
0.85916 0.086362 1.295219 0.290627
1.14E-05 -0.051695 0.017597
1.00000 0.086362 1.295219 0.290627
1.14E-05 -0.173564 -0.525528

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.090657 -2.289319 0.107181
1.91E-05 0.115122 -2.875789
0.57748 -0.090657 -2.289319 0.107181
1.91E-05 0.070177 -1.915807
0.71832 -0.090657 -2.289319 0.107181
1.91E-05 0.025233 -0.955824
0.85916 -0.090657 -2.289319 0.107181
1.91E-05 -0.019711 0.004158
1.00000 -0.090657 -2.289319 0.107181
1.91E-05 -0.064655 0.964140
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
649

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.040559 1.235232 -0.423442
-3.38E-05 -0.456529 1.565915
0.57748 0.040559 1.235232 -0.423442
-3.38E-05 -0.278966 1.047944
0.71832 0.040559 1.235232 -0.423442
-3.38E-05 -0.101404 0.529973
0.85916 0.040559 1.235232 -0.423442
-3.38E-05 0.076159 0.012002
1.00000 0.040559 1.235232 -0.423442
-3.38E-05 0.253721 -0.505968

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.025413 -0.132587 0.093845
3.02E-06 0.101196 -0.199482
0.57748 -0.025413 -0.132587 0.093845
3.02E-06 0.061844 -0.143884
0.71832 -0.025413 -0.132587 0.093845
3.02E-06 0.022492 -0.088286
0.85916 -0.025413 -0.132587 0.093845
3.02E-06 -0.016860 -0.032688
1.00000 -0.025413 -0.132587 0.093845
3.02E-06 -0.056213 0.022910

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43663 0.125940 2.557670 -0.114299
-2.25E-05 -0.122544 3.245797
0.57748 0.125940 2.557670 -0.114299
-2.25E-05 -0.074615 2.173287
0.71832 0.125940 2.557670 -0.114299
-2.25E-05 -0.026686 1.100777
0.85916 0.125940 2.557670 -0.114299
-2.25E-05 0.021243 0.028267
1.00000 0.125940 2.557670 -0.114299
-2.25E-05 0.069172 -1.044243

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43663 -0.125940 -2.557670 0.114299
2.25E-05 0.122544 -3.245797
0.57748 -0.125940 -2.557670 0.114299
2.25E-05 0.074615 -2.173287
0.71832 -0.125940 -2.557670 0.114299
2.25E-05 0.026686 -1.100777
0.85916 -0.125940 -2.557670 0.114299
2.25E-05 -0.021243 -0.028267
1.00000 -0.125940 -2.557670 0.114299
2.25E-05 -0.069172 1.044243

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43663 0.125940 2.557670 0.290627
2.25E-05 0.313912 3.245797
0.57748 0.125940 2.557670 0.290627
2.25E-05 0.192043 2.173287
0.71832 0.125940 2.557670 0.290627
2.25E-05 0.070174 1.100777
0.85916 0.125940 2.557670 0.290627
2.25E-05 0.076159 0.028267
1.00000 0.125940 2.557670 0.290627
2.25E-05 0.253721 1.044243

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43663 -0.125940 -2.557670 -0.423442
-3.38E-05 -0.456529 -3.245797
0.57748 -0.125940 -2.557670 -0.423442
-3.38E-05 -0.278966 -2.173287
0.71832 -0.125940 -2.557670 -0.423442
-3.38E-05 -0.101404 -1.100777
0.85916 -0.125940 -2.557670 -0.423442
-3.38E-05 -0.051695 -0.032688
1.00000 -0.125940 -2.557670 -0.423442
-3.38E-05 -0.173564 -1.044243
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
650

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 333 ========== LENGTH = 2.977323

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.006002 0.029073 0.018943
-2.44E-06 0.011323 -0.012075
0.14084 -0.006002 0.029073 0.018943
-2.44E-06 0.003380 -0.024267
0.28168 -0.006002 0.029073 0.018943
-2.44E-06 -0.004564 -0.036458
0.42252 -0.006002 0.029073 0.018943
-2.44E-06 -0.012507 -0.048649
0.56337 -0.006002 0.029073 0.018943
-2.44E-06 -0.020451 -0.060841

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.013634 -0.144621 -0.086757
1.12E-05 -0.051617 0.054061
0.14084 0.013634 -0.144621 -0.086757
1.12E-05 0.015237 0.114705
0.28168 0.013634 -0.144621 -0.086757
1.12E-05 0.021143 0.175349
0.42252 0.013634 -0.144621 -0.086757
1.12E-05 0.057523 0.235992
0.56337 0.013634 -0.144621 -0.086757
1.12E-05 0.093903 0.296636

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.006226 1.329205 0.288521
-2.56E-05 0.171329 -0.514977
0.14084 0.006226 1.329205 0.288521
-2.56E-05 0.050343 -1.072354
0.28168 0.006226 1.329205 0.288521
-2.56E-05 -0.070643 -1.629730
0.42252 0.006226 1.329205 0.288521
-2.56E-05 -0.191628 -2.187107
0.56337 0.006226 1.329205 0.288521
-2.56E-05 -0.312614 -2.744484

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.070102 -2.352176 0.104162
7.37E-06 0.062352 0.948431
0.14084 -0.070102 -2.352176 0.104162
7.37E-06 0.018674 1.934771
0.28168 -0.070102 -2.352176 0.104162
7.37E-06 -0.025005 2.921111
0.42252 -0.070102 -2.352176 0.104162
7.37E-06 -0.068683 3.907450
0.56337 -0.070102 -2.352176 0.104162
7.37E-06 -0.112362 4.893790

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.094166 1.286654 -0.416781
1.81E-05 -0.247912 -0.496917
0.14084 0.094166 1.286654 -0.416781
1.81E-05 -0.073143 -1.036451
0.28168 0.094166 1.286654 -0.416781
1.81E-05 0.101626 -1.575985
0.42252 0.094166 1.286654 -0.416781
1.81E-05 0.276395 -2.115518
0.56337 0.094166 1.286654 -0.416781
1.81E-05 0.451164 -2.655052

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.037922 -0.148137 0.091911
-8.73E-06 0.054524 0.021477
0.14084 -0.037922 -0.148137 0.091911
-8.73E-06 0.015983 0.083596
0.28168 -0.037922 -0.148137 0.091911
-8.73E-06 -0.022559 0.145714
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
651

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42252 -0.037922 -0.148137 0.091911
-8.73E-06 -0.061100 0.207832
0.56337 -0.037922 -0.148137 0.091911
-8.73E-06 -0.099641 0.269950

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.094390 2.644933 -0.109316
-9.88E-06 -0.065259 -1.023969
0.14084 0.094390 2.644933 -0.109316
-9.88E-06 -0.019419 -2.133071
0.28168 0.094390 2.644933 -0.109316
-9.88E-06 0.026420 -3.242173
0.42252 0.094390 2.644933 -0.109316
-9.88E-06 0.072260 -4.351275
0.56337 0.094390 2.644933 -0.109316
-9.88E-06 0.118099 -5.460377

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.094390 -2.644933 0.109316
9.88E-06 0.065259 1.023969
0.14084 -0.094390 -2.644933 0.109316
9.88E-06 0.019419 2.133071
0.28168 -0.094390 -2.644933 0.109316
9.88E-06 -0.026420 3.242173
0.42252 -0.094390 -2.644933 0.109316
9.88E-06 -0.072260 4.351275
0.56337 -0.094390 -2.644933 0.109316
9.88E-06 -0.118099 5.460377

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.094390 2.644933 0.288521
1.81E-05 0.171329 1.023969
0.14084 0.094390 2.644933 0.288521
1.81E-05 0.050343 2.133071
0.28168 0.094390 2.644933 0.288521
1.81E-05 0.101626 3.242173
0.42252 0.094390 2.644933 0.288521
1.81E-05 0.276395 4.351275
0.56337 0.094390 2.644933 0.288521
1.81E-05 0.451164 5.460377

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.094390 -2.644933 -0.416781
-2.56E-05 -0.247912 -1.023969
0.14084 -0.094390 -2.644933 -0.416781
-2.56E-05 -0.073143 -2.133071
0.28168 -0.094390 -2.644933 -0.416781
-2.56E-05 -0.070643 -3.242173
0.42252 -0.094390 -2.644933 -0.416781
-2.56E-05 -0.191628 -4.351275
0.56337 -0.094390 -2.644933 -0.416781
-2.56E-05 -0.312614 -5.460377

ELEM 334 ========== LENGTH = 2.976751

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43672 -0.003585 0.017398 0.011866
-1.27E-07 0.013274 0.017566
0.57754 -0.003585 0.017398 0.011866
-1.27E-07 0.008300 0.010273
0.71836 -0.003585 0.017398 0.011866
-1.27E-07 0.003326 0.002980
0.85918 -0.003585 0.017398 0.011866
-1.27E-07 -0.001648 -0.004313
1.00000 -0.003585 0.017398 0.011866
-1.27E-07 -0.006622 -0.011606
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
652

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43672 0.010523 -0.087063 -0.054923
6.10E-07 -0.061233 -0.091997
0.57754 0.010523 -0.087063 -0.054923
6.10E-07 -0.038210 -0.055501
0.71836 0.010523 -0.087063 -0.054923
6.10E-07 -0.015187 -0.019005
0.85918 0.010523 -0.087063 -0.054923
6.10E-07 0.007836 0.017490
1.00000 0.010523 -0.087063 -0.054923
6.10E-07 0.030859 0.053986

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43672 -0.037621 0.867118 0.179122
1.78E-06 0.199318 0.968313
0.57754 -0.037621 0.867118 0.179122
1.78E-06 0.124232 0.604827
0.71836 -0.037621 0.867118 0.179122
1.78E-06 0.049147 0.241342
0.85918 -0.037621 0.867118 0.179122
1.78E-06 -0.025939 -0.122143
1.00000 -0.037621 0.867118 0.179122
1.78E-06 -0.101024 -0.485629

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43672 0.061128 -1.543661 0.236512
3.98E-05 0.264083 -1.724049
0.57754 0.061128 -1.543661 0.236512
3.98E-05 0.164940 -1.076965
0.71836 0.061128 -1.543661 0.236512
3.98E-05 0.065797 -0.429882
0.85918 0.061128 -1.543661 0.236512
3.98E-05 -0.033346 0.217202
1.00000 0.061128 -1.543661 0.236512
3.98E-05 -0.132489 0.864286

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43672 -0.008786 0.824379 -0.470927
-4.59E-05 -0.525093 0.946457
0.57754 -0.008786 0.824379 -0.470927
-4.59E-05 -0.327686 0.600887
0.71836 -0.008786 0.824379 -0.470927
-4.59E-05 -0.130279 0.255318
0.85918 -0.008786 0.824379 -0.470927
-4.59E-05 0.067128 -0.090252
1.00000 -0.008786 0.824379 -0.470927
-4.59E-05 0.264535 -0.435822

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43672 -0.021659 -0.078172 0.098351
3.84E-06 0.109650 -0.116290
0.57754 -0.021659 -0.078172 0.098351
3.84E-06 0.068423 -0.083522
0.71836 -0.021659 -0.078172 0.098351
3.84E-06 0.027196 -0.050753
0.85918 -0.021659 -0.078172 0.098351
3.84E-06 -0.014032 -0.017984
1.00000 -0.021659 -0.078172 0.098351
3.84E-06 -0.055259 0.014784

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43672 -0.049992 1.708895 -0.279940
-4.43E-05 -0.312501 1.932336
0.57754 -0.049992 1.708895 -0.279940
-4.43E-05 -0.195153 1.215988
0.71836 -0.049992 1.708895 -0.279940
-4.43E-05 -0.077806 0.499640
0.85918 -0.049992 1.708895 -0.279940
-4.43E-05 0.039542 -0.216708
1.00000 -0.049992 1.708895 -0.279940
-4.43E-05 0.156889 -0.933056
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
653

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43672 0.049992 -1.708895 0.279940
4.43E-05 0.312501 -1.932336
0.57754 0.049992 -1.708895 0.279940
4.43E-05 0.195153 -1.215988
0.71836 0.049992 -1.708895 0.279940
4.43E-05 0.077806 -0.499640
0.85918 0.049992 -1.708895 0.279940
4.43E-05 -0.039542 0.216708
1.00000 0.049992 -1.708895 0.279940
4.43E-05 -0.156889 0.933056

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43672 0.061128 1.708895 0.279940
4.43E-05 0.312501 1.932336
0.57754 0.061128 1.708895 0.279940
4.43E-05 0.195153 1.215988
0.71836 0.061128 1.708895 0.279940
4.43E-05 0.077806 0.499640
0.85918 0.061128 1.708895 0.279940
4.43E-05 0.067128 0.217202
1.00000 0.061128 1.708895 0.279940
4.43E-05 0.264535 0.933056

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43672 -0.049992 -1.708895 -0.470927
-4.59E-05 -0.525093 -1.932336
0.57754 -0.049992 -1.708895 -0.470927
-4.59E-05 -0.327686 -1.215988
0.71836 -0.049992 -1.708895 -0.470927
-4.59E-05 -0.130279 -0.499640
0.85918 -0.049992 -1.708895 -0.470927
-4.59E-05 -0.039542 -0.216708
1.00000 -0.049992 -1.708895 -0.470927
-4.59E-05 -0.156889 -0.933056

ELEM 335 ========== LENGTH = 2.977749

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.004980 0.022330 0.012137
-1.83E-06 0.006845 -0.010767
0.14086 -0.004980 0.022330 0.012137
-1.83E-06 0.001754 -0.020133
0.28171 -0.004980 0.022330 0.012137
-1.83E-06 -0.003336 -0.029899
0.42257 -0.004980 0.022330 0.012137
-1.83E-06 -0.008427 -0.038866
0.56343 -0.004980 0.022330 0.012137
-1.83E-06 -0.013518 -0.048232

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.017180 -0.110000 -0.054720
8.43E-06 -0.030658 0.050076
0.14086 0.017180 -0.110000 -0.054720
8.43E-06 -0.007707 0.096214
0.28171 0.017180 -0.110000 -0.054720
8.43E-06 0.015244 0.142352
0.42257 0.017180 -0.110000 -0.054720
8.43E-06 0.038196 0.188490
0.56343 0.017180 -0.110000 -0.054720
8.43E-06 0.061147 0.234628

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.060730 0.942354 0.176013
-2.17E-05 0.098284 -0.472519
0.14086 -0.060730 0.942354 0.176013
-2.17E-05 0.024457 -0.867778
0.28171 -0.060730 0.942354 0.176013
-2.17E-05 -0.049370 -1.263036
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
654

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42257 -0.060730 0.942354 0.176013
-2.17E-05 -0.123196 -1.658294
0.56343 -0.060730 0.942354 0.176013
-2.17E-05 -0.197023 -2.053553

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.097536 -1.653090 0.234184
3.54E-06 0.130592 0.845703
0.14086 0.097536 -1.653090 0.234184
3.54E-06 0.032367 1.539070
0.28171 0.097536 -1.653090 0.234184
3.54E-06 -0.065859 2.232438
0.42257 0.097536 -1.653090 0.234184
3.54E-06 -0.164084 2.925805
0.56343 0.097536 -1.653090 0.234184
3.54E-06 -0.262309 3.619173

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.030615 0.885017 -0.463567
2.10E-05 -0.258293 -0.426406
0.14086 -0.030615 0.885017 -0.463567
2.10E-05 -0.063855 -0.797615
0.28171 -0.030615 0.885017 -0.463567
2.10E-05 0.130582 -1.168824
0.42257 -0.030615 0.885017 -0.463567
2.10E-05 0.325019 -1.540033
0.56343 -0.030615 0.885017 -0.463567
2.10E-05 0.519457 -1.911242

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.018390 -0.086612 0.095953
-9.42E-06 0.053231 0.013914
0.14086 -0.018390 -0.086612 0.095953
-9.42E-06 0.012984 0.050242
0.28171 -0.018390 -0.086612 0.095953
-9.42E-06 -0.027262 0.086570
0.42257 -0.018390 -0.086612 0.095953
-9.42E-06 -0.067508 0.122898
0.56343 -0.018390 -0.086612 0.095953
-9.42E-06 -0.107754 0.159226

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.096326 1.849701 -0.275417
-2.55E-06 -0.153164 -0.909693
0.14086 -0.096326 1.849701 -0.275417
-2.55E-06 -0.037644 -1.685526
0.28171 -0.096326 1.849701 -0.275417
-2.55E-06 0.077876 -2.461360
0.42257 -0.096326 1.849701 -0.275417
-2.55E-06 0.193396 -3.237193
0.56343 -0.096326 1.849701 -0.275417
-2.55E-06 0.308916 -4.013027

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.096326 -1.849701 0.275417
2.55E-06 0.153164 0.909693
0.14086 0.096326 -1.849701 0.275417
2.55E-06 0.037644 1.685526
0.28171 0.096326 -1.849701 0.275417
2.55E-06 -0.077876 2.461360
0.42257 0.096326 -1.849701 0.275417
2.55E-06 -0.193396 3.237193
0.56343 0.096326 -1.849701 0.275417
2.55E-06 -0.308916 4.013027

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.097536 1.849701 0.275417
2.10E-05 0.153164 0.909693
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
655

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.14086 0.097536 1.849701 0.275417
2.10E-05 0.037644 1.685526
0.28171 0.097536 1.849701 0.275417
2.10E-05 0.130582 2.461360
0.42257 0.097536 1.849701 0.275417
2.10E-05 0.325019 3.237193
0.56343 0.097536 1.849701 0.275417
2.10E-05 0.519457 4.013027

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.096326 -1.849701 -0.463567
-2.17E-05 -0.258293 -0.909693
0.14086 -0.096326 -1.849701 -0.463567

-2.17E-05 -0.063855 -1.685526
0.28171 -0.096326 -1.849701 -0.463567
-2.17E-05 -0.077876 -2.461360
0.42257 -0.096326 -1.849701 -0.463567
-2.17E-05 -0.193396 -3.237193
0.56343 -0.096326 -1.849701 -0.463567
-2.17E-05 -0.308916 -4.013027

ELEM 336 ========== LENGTH = 2.977217

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	-0.004419	0.017831	0.006845	
-1.59E-07	0.007647	0.013827		
0.57749	-0.004419	0.017831	0.006845	
-1.59E-07	0.004776	0.006350		
0.71832	-0.004419	0.017831	0.006845	
-1.59E-07	0.001906	-0.001126		
0.85916	-0.004419	0.017831	0.006845	
-1.59E-07	-0.000964	-0.008603		
1.00000	-0.004419	0.017831	0.006845	
-1.59E-07	-0.003835	-0.016080		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.019539	-0.086734	-0.030828	
8.47E-07	-0.034278	-0.070007		
0.57749	0.019539	-0.086734	-0.030828	
8.47E-07	-0.021352	-0.033639		
0.71832	0.019539	-0.086734	-0.030828	
8.47E-07	-0.008425	0.002729		
0.85916	0.019539	-0.086734	-0.030828	
8.47E-07	0.004501	0.039097		
1.00000	0.019539	-0.086734	-0.030828	
8.47E-07	0.017427	0.075465		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	-0.049932	0.627525	0.094416	
-3.98E-06	0.104584	0.580480		
0.57749	-0.049932	0.627525	0.094416	
-3.98E-06	0.064995	0.317356		
0.71832	-0.049932	0.627525	0.094416	
-3.98E-06	0.025406	0.054232		
0.85916	-0.049932	0.627525	0.094416	
-3.98E-06	-0.014183	-0.208892		
1.00000	-0.049932	0.627525	0.094416	
-3.98E-06	-0.053772	-0.472016		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.066954	-1.028986	0.355101	
5.29E-05	0.395872	-0.972204		
0.57749	0.066954	-1.028986	0.355101	
5.29E-05	0.246976	-0.540746		
0.71832	0.066954	-1.028986	0.355101	
5.29E-05	0.098081	-0.109288		
0.85916	0.066954	-1.028986	0.355101	
5.29E-05	-0.050815	0.322170		
1.00000	0.066954	-1.028986	0.355101	
5.29E-05	-0.199710	0.753628		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
656

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	-0.016041	0.495760	-0.527215	
-5.57E-05	-0.587072	0.505446		
0.57749	-0.016041	0.495760	-0.527215	
-5.57E-05	-0.366009	0.297571		
0.71832	-0.016041	0.495760	-0.527215	
-5.57E-05	-0.144945	0.089697		
0.85916	-0.016041	0.495760	-0.527215	
-5.57E-05	0.076118	-0.118177		
1.00000	-0.016041	0.495760	-0.527215	
-5.57E-05	0.297182	-0.326051		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	-0.016101	-0.025397	0.101681	
6.10E-06	0.113248	-0.057542		
0.57749	-0.016101	-0.025397	0.101681	
6.10E-06	0.070613	-0.046893		
0.71832	-0.016101	-0.025397	0.101681	
6.10E-06	0.027978	-0.036244		
0.85916	-0.016101	-0.025397	0.101681	
6.10E-06	-0.014657	-0.025595		
1.00000	-0.016101	-0.025397	0.101681	
6.10E-06	-0.057292	-0.014946		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	-0.070392	1.141116	-0.425954	
-5.98E-05	-0.474842	1.099753		
0.57749	-0.070392	1.141116	-0.425954	
-5.98E-05	-0.296238	0.621278		
0.71832	-0.070392	1.141116	-0.425954	
-5.98E-05	-0.117634	0.142803		
0.85916	-0.070392	1.141116	-0.425954	
-5.98E-05	0.060971	-0.335672		
1.00000	-0.070392	1.141116	-0.425954	
-5.98E-05	0.239575	-0.814147		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.070392	-1.141116	0.425954	
5.98E-05	0.474842	-1.099753		
0.57749	0.070392	-1.141116	0.425954	
5.98E-05	0.296238	-0.621278		
0.71832	0.070392	-1.141116	0.425954	
5.98E-05	0.117634	-0.142803		
0.85916	0.070392	-1.141116	0.425954	
5.98E-05	-0.060971	0.335672		
1.00000	0.070392	-1.141116	0.425954	
5.98E-05	-0.239575	0.814147		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	0.070392	1.141116	0.425954	
5.98E-05	0.474842	1.099753		
0.57749	0.070392	1.141116	0.425954	
5.98E-05	0.296238	0.621278		
0.71832	0.070392	1.141116	0.425954	
5.98E-05	0.117634	0.142803		
0.85916	0.070392	1.141116	0.425954	
5.98E-05	0.076118	0.335672		
1.00000	0.070392	1.141116	0.425954	
5.98E-05	0.297182	0.814147		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43665	-0.070392	-1.141116	-0.527215	
-5.98E-05	-0.587072	-1.099753		
0.57749	-0.070392	-1.141116	-0.527215	
-5.98E-05	-0.366009	-0.621278		
0.71832	-0.070392	-1.141116	-0.527215	
-5.98E-05	-0.144945	-0.142803		
0.85916	-0.070392	-1.141116	-0.527215	
-5.98E-05	-0.060971	-0.335672		
1.00000	-0.070392	-1.141116	-0.527215	
-5.98E-05	-0.239575	-0.814147		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
657

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 337 ========== LENGTH = 2.977253

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.005135	0.010670	0.007072	
-1.11E-06	0.004017	-0.015363		
0.14084	-0.005135	0.010670	0.007072	
-1.11E-06	0.001052	-0.019837		
0.28168	-0.005135	0.010670	0.007072	
-1.11E-06	-0.001913	-0.024311		
0.42252	-0.005135	0.010670	0.007072	
-1.11E-06	-0.004879	-0.028785		
0.56336	-0.005135	0.010670	0.007072	
-1.11E-06	-0.007844	-0.033259		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.023003	-0.053349	-0.030744	
5.04E-06	-0.017320	0.072123		
0.14084	0.023003	-0.053349	-0.030744	
5.04E-06	-0.004428	0.094492		
0.28168	0.023003	-0.053349	-0.030744	
5.04E-06	0.008464	0.116862		
0.42252	0.023003	-0.053349	-0.030744	
5.04E-06	0.021355	0.139232		
0.56336	0.023003	-0.053349	-0.030744	
5.04E-06	0.034247	0.161602		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.062225	0.515484	0.091246	
-1.37E-05	0.051074	-0.460831		
0.14084	-0.062225	0.515484	0.091246	
-1.37E-05	0.012814	-0.676980		
0.28168	-0.062225	0.515484	0.091246	
-1.37E-05	-0.025447	-0.893129		
0.42252	-0.062225	0.515484	0.091246	
-1.37E-05	-0.063708	-1.109278		
0.56336	-0.062225	0.515484	0.091246	
-1.37E-05	-0.101969	-1.325428		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.084118	-0.898576	0.354486	
-6.19E-06	0.198757	0.738773		
0.14084	0.084118	-0.898576	0.354486	
-6.19E-06	0.050116	1.115558		
0.28168	0.084118	-0.898576	0.354486	
-6.19E-06	-0.098525	1.492343		
0.42252	0.084118	-0.898576	0.354486	
-6.19E-06	-0.247166	1.869128		
0.56336	0.084118	-0.898576	0.354486	
-6.19E-06	-0.395806	2.245912		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.025140	0.472452	-0.521654	
2.71E-05	-0.291984	-0.320014		
0.14084	-0.025140	0.472452	-0.521654	
2.71E-05	-0.073247	-0.518120		
0.28168	-0.025140	0.472452	-0.521654	
2.71E-05	0.145489	-0.716225		
0.42252	-0.025140	0.472452	-0.521654	
2.71E-05	0.364225	-0.914330		
0.56336	-0.025140	0.472452	-0.521654	
2.71E-05	0.582962	-1.112436		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.014620	-0.046680	0.099594	
-1.12E-05	0.055455	-0.014687		
0.14084	-0.014620	-0.046680	0.099594	
-1.12E-05	0.013694	0.004887		
0.28168	-0.014620	-0.046680	0.099594	
-1.12E-05	-0.028067	0.024460		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
658

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.42252	-0.014620	-0.046680	0.099594	
1.12E-05	0.069828	0.044034		
0.56336	-0.014620	-0.046680	0.099594	
-1.12E-05	-0.111589	0.063608		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.092500	0.998606	-0.423336	
1.23E-05	-0.236892	-0.796208		
0.14084	-0.092500	0.998606	-0.423336	
1.23E-05	-0.059382	-1.214937		
0.28168	-0.092500	0.998606	-0.423336	
1.23E-05	0.118128	-1.633665		
0.42252	-0.092500	0.998606	-0.423336	
1.23E-05	0.295639	-2.052394		
0.56336	-0.092500	0.998606	-0.423336	
1.23E-05	0.473149	-2.471122		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.092500	-0.998606	0.423336	
-1.23E-05	0.236892	0.796208		
0.14084	0.092500	-0.998606	0.423336	
-1.23E-05	0.059382	1.214937		
0.28168	0.092500	-0.998606	0.423336	
-1.23E-05	-0.118128	1.633665		
0.42252	0.092500	-0.998606	0.423336	
-1.23E-05	-0.295639	2.052394		
0.56336	0.092500	-0.998606	0.423336	
-1.23E-05	-0.473149	2.471122		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.092500	0.998606	0.423336	
2.71E-05	0.236892	0.796208		
0.14084	0.092500	0.998606	0.423336	
2.71E-05	0.059382	1.214937		
0.28168	0.092500	0.998606	0.423336	
2.71E-05	0.145489	1.633665		
0.42252	0.092500	0.998606	0.423336	
2.71E-05	0.364225	2.052394		
0.56336	0.092500	0.998606	0.423336	
2.71E-05	0.582962	2.471122		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.092500	-0.998606	-0.521654	
-1.37E-05	-0.291984	-0.796208		
0.14084	-0.092500	-0.998606	-0.521654	
-1.37E-05	-0.073247	-1.214937		
0.28168	-0.092500	-0.998606	-0.521654	
-1.37E-05	-0.118128	-1.633665		
0.42252	-0.092500	-0.998606	-0.521654	
-1.37E-05	-0.295639	-2.052394		
0.56336	-0.092500	-0.998606	-0.521654	
-1.37E-05	-0.473149	-2.471122		

ELEM 338 ========== LENGTH = 2.976832

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	-0.005084	0.001183	0.002019	
-7.24E-08	0.002261	-0.007247		
0.57753	-0.005084	0.001183	0.002019	
-7.24E-08	0.001415	-0.007744		
0.71835	-0.005084	0.001183	0.002019	
-7.24E-08	0.000569	-0.008240		
0.85918	-0.005084	0.001183	0.002019	
-7.24E-08	-0.000278	-0.008736		
1.00000	-0.005084	0.001183	0.002019	
-7.24E-08	-0.001124	0.009232		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
659

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	0.024457	-0.007525	-0.007755	
5.07E-07	-0.008573	0.031001		
0.57753	0.024457	-0.007525	-0.007755	
5.07E-07	-0.005322	0.034156		
0.71835	0.024457	-0.007525	-0.007755	
5.07E-07	-0.002072	0.037310		
0.85918	0.024457	-0.007525	-0.007755	
5.07E-07	0.001179	0.040465		
1.00000	0.024457	-0.007525	-0.007755	
5.07E-07	0.004430	0.043619		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	0.001874	0.207932	0.013469	
-6.39E-06	0.014469	0.110548		
0.57753	0.001874	0.207932	0.013469	
-6.39E-06	0.008822	0.023382		
0.71835	0.001874	0.207932	0.013469	
-6.39E-06	0.003176	-0.063785		
0.85918	0.001874	0.207932	0.013469	
-6.39E-06	-0.002470	-0.150952		
1.00000	0.001874	0.207932	0.013469	
-6.39E-06	-0.008117	-0.238119		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	-0.020780	-0.353655	0.457841	
5.65E-05	0.510187	-0.260643		
0.57753	-0.020780	-0.353655	0.457841	
5.65E-05	0.318257	-0.1123389		
0.71835	-0.020780	-0.353655	0.457841	
5.65E-05	0.126326	0.035866		
0.85918	-0.020780	-0.353655	0.457841	
5.65E-05	-0.065605	0.184121		
1.00000	-0.020780	-0.353655	0.457841	
5.65E-05	-0.257536	0.332376		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	0.003319	0.151513	-0.560628	
-5.48E-05	-0.624369	0.165195		
0.57753	0.003319	0.151513	-0.560628	
-5.48E-05	-0.389350	0.101679		
0.71835	0.003319	0.151513	-0.560628	
-5.48E-05	-0.154330	0.038164		
0.85918	0.003319	0.151513	-0.560628	
-5.48E-05	0.080690	-0.025351		
1.00000	0.003319	0.151513	-0.560628	
-5.48E-05	0.315710	-0.088867		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	-0.003786	0.000552	0.095053	
4.24E-06	0.106025	-0.038853		
0.57753	-0.003786	0.000552	0.095053	
4.24E-06	0.066178	-0.039085		
0.71835	-0.003786	0.000552	0.095053	
4.24E-06	0.026331	-0.039316		
0.85918	-0.003786	0.000552	0.095053	
4.24E-06	-0.013516	-0.039547		
1.00000	-0.003786	0.000552	0.095053	
4.24E-06	-0.053363	-0.039779		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	0.000109	0.360628	-0.545140	
-6.13E-05	-0.607639	0.268496		
0.57753	0.000109	0.360628	-0.545140	
-6.13E-05	-0.379112	0.117317		
0.71835	0.000109	0.360628	-0.545140	
-6.13E-05	-0.150585	-0.033861		
0.85918	0.000109	0.360628	-0.545140	
-6.13E-05	0.077942	-0.185039		
1.00000	0.000109	0.360628	-0.545140	
-6.13E-05	0.306469	-0.336217		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
660

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	-0.000109	-0.360628	0.545140	
6.13E-05	0.607639	-0.268496		
0.57753	-0.000109	-0.360628	0.545140	
6.13E-05	0.379112	-0.117317		
0.71835	-0.000109	-0.360628	0.545140	
6.13E-05	0.150585	0.033861		
0.85918	-0.000109	-0.360628	0.545140	
6.13E-05	-0.077942	0.185039		
1.00000	-0.000109	-0.360628	0.545140	
6.13E-05	-0.306469	0.336217		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	0.024457	0.360628	0.545140	
6.13E-05	0.607639	0.268496		
0.57753	0.024457	0.360628	0.545140	
6.13E-05	0.379112	0.117317		
0.71835	0.024457	0.360628	0.545140	
6.13E-05	0.150585	0.038164		
0.85918	0.024457	0.360628	0.545140	
6.13E-05	0.080690	0.185039		
1.00000	0.024457	0.360628	0.545140	
6.13E-05	0.315710	0.336217		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.43671	-0.020780	-0.360628	-0.560628	
-6.13E-05	-0.624369	-0.268496		
0.57753	-0.020780	-0.360628	-0.560628	
-6.13E-05	-0.389350	-0.117317		
0.71835	-0.020780	-0.360628	-0.560628	
-6.13E-05	-0.154330	-0.063785		
0.85918	-0.020780	-0.360628	-0.560628	
-6.13E-05	-0.077942	-0.185039		
1.00000	-0.020780	-0.360628	-0.560628	
-6.13E-05	-0.306469	-0.336217		

ELEM 339 ========== LENGTH = 2.977829

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.006715	0.010483	0.002200	
-3.85E-07	0.001272	-0.008460		
0.14086	-0.006715	0.010483	0.002200	
-3.85E-07	0.000349	-0.012857		
0.28172	-0.006715	0.010483	0.002200	
-3.85E-07	-0.000573	-0.017254		
0.42258	-0.006715	0.010483	0.002200	
-3.85E-07	-0.001496	-0.021651		
0.56344	-0.006715	0.010483	0.002200	
-3.85E-07	-0.002419	-0.026049		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.032163	-0.050870	-0.007728	
1.67E-06	-0.004390	0.040023		
0.14086	0.032163	-0.050870	-0.007728	
1.67E-06	-0.001149	0.061360		
0.28172	0.032163	-0.050870	-0.007728	
1.67E-06	0.002093	0.082698		
0.42258	0.032163	-0.050870	-0.007728	
1.67E-06	0.005335	0.104036		
0.56344	0.032163	-0.050870	-0.007728	
1.67E-06	0.008576	0.125373		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.024418	0.352430	0.010829	
-4.23E-06	0.005965	-0.226096		
0.14086	-0.024418	0.352430	0.010829	
-4.23E-06	0.001422	-0.373925		
0.28172	-0.024418	0.352430	0.010829	
-4.23E-06	-0.003120	-0.521754		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
661

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.42258	-0.024418	0.352430	0.010829	
-4.23E-06	-0.007662	-0.669584		
0.56344	-0.024418	0.352430	0.010829	
-4.23E-06	-0.012205	-0.817413		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.011446	-0.547386	0.455449	
-1.38E-05	0.255244	0.318051		
0.14086	0.011446	-0.547386	0.455449	
-1.38E-05	0.064202	0.547656		
0.28172	0.011446	-0.547386	0.455449	
-1.38E-05	-0.126839	0.777261		
0.42258	0.011446	-0.547386	0.455449	
-1.38E-05	-0.317881	1.006866		
0.56344	0.011446	-0.547386	0.455449	
-1.38E-05	-0.508922	1.236472		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.006387	0.233580	-0.554152	
2.45E-05	-0.310053	-0.085664		
0.14086	-0.006387	0.233580	-0.554152	
2.45E-05	-0.077610	0.159341		
0.28172	-0.006387	0.233580	-0.554152	
2.45E-05	0.154833	-0.281618		
0.42258	-0.006387	0.233580	-0.554152	
2.45E-05	0.387276	-0.379595		
0.56344	-0.006387	0.233580	-0.554152	
2.45E-05	0.619719	-0.477572		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.006089	0.001763	0.093401	
-7.79E-06	0.051962	-0.038594		
0.14086	-0.006089	0.001763	0.093401	
-7.79E-06	0.012784	-0.038593		
0.28172	-0.006089	0.001763	0.093401	
-7.79E-06	-0.026394	-0.039333		
0.42258	-0.006089	0.001763	0.093401	
-7.79E-06	-0.065571	-0.040072		
0.56344	-0.006089	0.001763	0.093401	
-7.79E-06	-0.104749	-0.040812		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.037520	0.596493	-0.541122	
1.99E-05	-0.302815	-0.320220		
0.14086	-0.037520	0.596493	-0.541122	
1.99E-05	-0.075838	-0.570423		
0.28172	-0.037520	0.596493	-0.541122	
1.99E-05	0.151140	-0.820627		
0.42258	-0.037520	0.596493	-0.541122	
1.99E-05	0.378118	-1.070830		
0.56344	-0.037520	0.596493	-0.541122	
1.99E-05	0.605095	-1.321033		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.037520	-0.596493	0.541122	
-1.99E-05	0.302815	0.320220		
0.14086	0.037520	-0.596493	0.541122	
-1.99E-05	0.075838	0.570423		
0.28172	0.037520	-0.596493	0.541122	
-1.99E-05	-0.151140	0.820627		
0.42258	0.037520	-0.596493	0.541122	
-1.99E-05	-0.378118	1.070830		
0.56344	0.037520	-0.596493	0.541122	
-1.99E-05	-0.605095	1.321033		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.037520	0.596493	0.541122	
2.45E-05	0.302815	0.320220		

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
662

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.14086	0.037520	0.596493	0.541122	
2.45E-05	0.075838	0.570423		
0.28172	0.037520	0.596493	0.541122	
2.45E-05	0.154833	0.820627		

0.42258 0.037520 0.596493 0.541122
2.45E-05 0.387276 1.070830
0.56344 0.037520 0.596493 0.541122
2.45E-05 0.619719 1.321033

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.037520 -0.596493 -0.554152
-1.99E-05 -0.310053 -0.320220
0.14086 -0.037520 -0.596493 -0.554152
-1.99E-05 -0.077610 -0.570423
0.28172 -0.037520 -0.596493 -0.554152
-1.99E-05 -0.151140 -0.820627
0.42258 -0.037520 -0.596493 -0.554152
-1.99E-05 -0.378118 -1.070830
0.56344 -0.037520 -0.596493 -0.554152
-1.99E-05 -0.605095 -1.321033

ELEM 340 ========== LENGTH = 2.977485

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43661 -0.007088 0.004281 -0.002349
1.22E-07 -0.002641 -0.009796
0.57746 -0.007088 0.004281 -0.002349
1.22E-07 -0.001656 -0.011591
0.71831 -0.007088 0.004281 -0.002349
1.22E-07 -0.000571 -0.013386
0.85915 -0.007088 0.004281 -0.002349
1.22E-07 0.000315 -0.015181
1.00000 -0.007088 0.004281 -0.002349
1.22E-07 0.001300 -0.016976

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.033790 -0.020946 0.013061
-3.58E-07 0.014756 0.044427
0.57746 0.033790 -0.020946 0.013061
-3.58E-07 0.009278 0.053211
0.71831 0.033790 -0.020946 0.013061
-3.58E-07 0.003801 0.061995
0.85915 0.033790 -0.020946 0.013061
-3.58E-07 -0.001677 0.070779
1.00000 0.033790 -0.020946 0.013061
-3.58E-07 -0.007155 0.079564

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.024769 0.145054 -0.059685
-6.43E-06 -0.067342 0.061795
0.57746 0.024769 0.145054 -0.059685
-6.43E-06 -0.042311 0.000963
0.71831 0.024769 0.145054 -0.059685
-6.43E-06 -0.017281 -0.059868
0.85915 0.024769 0.145054 -0.059685
-6.43E-06 0.007749 -0.120700
1.00000 0.024769 0.145054 -0.059685
-6.43E-06 0.032780 -0.181531

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43661 -0.082567 -0.189660 0.537249
6.02E-05 0.599258 -0.209880
0.57746 -0.082567 -0.189660 0.537249
6.02E-05 0.373952 -0.130342
0.71831 -0.082567 -0.189660 0.537249
6.02E-05 0.148645 -0.050804
0.85915 -0.082567 -0.189660 0.537249
6.02E-05 -0.076662 0.028734
1.00000 -0.082567 -0.189660 0.537249
6.02E-05 -0.301969 0.108272
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 663
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.027906 0.014046 -0.564497
-5.96E-05 -0.629276 0.118267
0.57746 0.027906 0.014046 -0.564497
-5.96E-05 -0.412376 0.079509
0.71831 0.027906 0.014046 -0.564497
-5.96E-05 -0.155808 0.106486
0.85915 0.027906 0.014046 -0.564497
-5.96E-05 0.080926 0.100596
1.00000 0.027906 0.014046 -0.564497
-5.96E-05 0.317660 0.094705

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.003191 0.047227 0.076221
6.08E-06 0.085244 -0.004812
0.57746 0.003191 0.047227 0.076221
6.08E-06 0.053279 -0.024618
0.71831 0.003191 0.047227 0.076221
6.08E-06 0.021314 -0.044423
0.85915 0.003191 0.047227 0.076221
6.08E-06 -0.010651 -0.064229
1.00000 0.003191 0.047227 0.076221
6.08E-06 -0.042616 -0.084034

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43661 0.045586 0.163380 -0.626532
-6.59E-05 -0.699258 0.170266
0.57746 0.045586 0.163380 -0.626532
-6.59E-05 -0.436509 0.101749
0.71831 0.045586 0.163380 -0.626532
-6.59E-05 -0.173759 0.033232
0.85915 0.045586 0.163380 -0.626532
-6.59E-05 0.088990 -0.035285
1.00000 0.045586 0.163380 -0.626532
-6.59E-05 0.351739 -0.103802

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43661 -0.045586 -0.163380 0.626532
6.59E-05 0.699258 -0.170266
0.57746 -0.045586 -0.163380 0.626532
6.59E-05 0.436509 -0.101749
0.71831 -0.045586 -0.163380 0.626532
6.59E-05 0.173759 -0.033232
0.85915 -0.045586 -0.163380 0.626532
6.59E-05 -0.088990 0.035285
1.00000 -0.045586 -0.163380 0.626532
6.59E-05 -0.351739 0.103802

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43661 0.045586 0.163380 0.626532
6.59E-05 0.699258 0.170266
0.57746 0.045586 0.163380 0.626532
6.59E-05 0.436509 0.112376
0.71831 0.045586 0.163380 0.626532
6.59E-05 0.173759 0.106486
0.85915 0.045586 0.163380 0.626532
6.59E-05 0.088990 0.100596
1.00000 0.045586 0.163380 0.626532
6.59E-05 0.351739 0.108272

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43661 -0.082567 -0.189660 -0.626532
-6.59E-05 -0.599258 -0.209880
0.57746 -0.082567 -0.189660 -0.626532
-6.59E-05 -0.436509 -0.130342
0.71831 -0.082567 -0.189660 -0.626532
-6.59E-05 -0.173759 -0.059868
0.85915 -0.082567 -0.189660 -0.626532
-6.59E-05 0.088990 -0.120700
1.00000 -0.082567 -0.189660 -0.626532
-6.59E-05 0.351739 -0.181531
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 664
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 341 ========== LENGTH = 2.977439

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.007981 0.004257 -0.002248
2.48E-07 -0.001212 -0.016407
0.14085 -0.007981 0.004257 -0.002248
2.48E-07 -0.000270 -0.018192
0.28169 -0.007981 0.004257 -0.002248
2.48E-07 0.000673 -0.019978
0.42254 -0.007981 0.004257 -0.002248
2.48E-07 0.001616 -0.021763
0.56338 -0.007981 0.004257 -0.002248
2.48E-07 0.002559 -0.023549

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.038029 -0.020835 0.013251
-1.29E-06 0.007298 0.076910
0.14085 0.038029 -0.020835 0.013251
-1.29E-06 0.001741 0.085648
0.28169 0.038029 -0.020835 0.013251
-1.29E-06 -0.003816 0.094385
0.42254 0.038029 -0.020835 0.013251
-1.29E-06 -0.009373 0.103123
0.56338 0.038029 -0.020835 0.013251
-1.29E-06 -0.014929 0.111860

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.010354 0.144001 -0.061220
4.61E-06 -0.033985 -0.172664
0.14085 0.010354 0.144001 -0.061220
4.61E-06 -0.008312 -0.233052
0.28169 0.010354 0.144001 -0.061220
4.61E-06 0.017361 -0.293440
0.42254 0.010354 0.144001 -0.061220
4.61E-06 0.043034 -0.353828
0.56338 0.010354 0.144001 -0.061220
4.61E-06 0.068707 -0.414217

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.069384 -0.185152 0.533850
-2.36E-05 0.298543 0.099680
0.14085 -0.069384 -0.185152 0.533850
-2.36E-05 0.074668 0.177325
0.28169 -0.069384 -0.185152 0.533850
-2.36E-05 -0.149207 0.254970
0.42254 -0.069384 -0.185152 0.533850
-2.36E-05 -0.373082 0.332616
0.56338 -0.069384 -0.185152 0.533850
-2.36E-05 -0.596957 0.410261

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.030870 0.007617 -0.559797
2.68E-05 -0.313135 0.093104
0.14085 0.030870 0.007617 -0.559797
2.68E-05 0.078379 0.078510
0.28169 0.030870 0.007617 -0.559797
2.68E-05 0.156378 0.086715
0.42254 0.030870 0.007617 -0.559797
2.68E-05 0.391134 0.083521
0.56338 0.030870 0.007617 -0.559797
2.68E-05 0.625890 0.080327

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.001887 0.050111 0.076165
-6.83E-06 0.042492 -0.080624
0.14085 -0.001887 0.050111 0.076165
-6.83E-06 0.010552 -0.101638
0.28169 -0.001887 0.050111 0.076165
-6.83E-06 -0.021389 -0.122653
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 665
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42254 -0.001887 0.050111 0.076165
-6.83E-06 -0.053329 -0.143668
0.56338 -0.001887 0.050111 0.076165
-6.83E-06 -0.085270 -0.164682

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.033243 0.155875 -0.623265
3.17E-05 -0.348333 -0.095967
0.14085 0.033243 0.155875 -0.623265
3.17E-05 -0.086960 -0.161335
0.28169 0.033243 0.155875 -0.623265
3.17E-05 0.174412 -0.226703
0.42254 0.033243 0.155875 -0.623265
3.17E-05 0.435784 -0.292071
0.56338 0.033243 0.155875 -0.623265
3.17E-05 0.697156 -0.357438

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.033243 -0.155875 0.623265
-3.17E-05 0.348333 0.095967
0.14085 -0.033243 -0.155875 0.623265
-3.17E-05 0.086960 0.161335
0.28169 -0.033243 -0.155875 0.623265
-3.17E-05 -0.174412 0.226703
0.42254 -0.033243 -0.155875 0.623265
-3.17E-05 -0.435784 0.292071
0.56338 -0.033243 -0.155875 0.623265
-3.17E-05 -0.697156 0.357438

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.038029 0.155875 0.623265
3.17E-05 0.348333 0.099680
0.14085 0.038029 0.155875 0.623265
3.17E-05 0.086960 0.177325
0.28169 0.038029 0.155875 0.623265
3.17E-05 0.174412 0.254970
0.42254 0.038029 0.155875 0.623265
3.17E-05 0.435784 0.332616
0.56338 0.038029 0.155875 0.623265
3.17E-05 0.697156 0.410261

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.069384 -0.185152 -0.623265
-3.17E-05 -0.348333 -0.172664
0.14085 -0.069384 -0.185152 -0.623265
-3.17E-05 -0.086960 -0.233052
0.28169 -0.069384 -0.185152 -0.623265
-3.17E-05 -0.174412 -0.293440
0.42254 -0.069384 -0.185152 -0.623265
-3.17E-05 -0.435784 -0.353828
0.56338 -0.069384 -0.185152 -0.623265
-3.17E-05 -0.697156 -0.414217

ELEM 342 ========== LENGTH = 2.977165

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.002489 0.005448 -0.005549
2.56E-07 -0.006219 -0.016823
0.57749 -0.002489 0.005448 -0.005549
2.56E-07 -0.003892 -0.019107
0.71833 -0.002489 0.005448 -0.005549
2.56E-07 -0.001565 -0.021391
0.85916 -0.002489 0.005448 -0.005549
2.56E-07 0.000761 -0.023675
1.00000 -0.002489 0.005448 -0.005549
2.56E-07 0.003088 -0.025960
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 666
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.43666 0.012019 -0.025754 0.028323
-9.58E-07 0.031394 0.077998
0.57749 0.012019 -0.025754 0.028323
-9.58E-07 0.019919 0.088796
0.71833 0.012019 -0.025754 0.028323
-9.58E-07 0.008043 0.099595
0.85916 0.012019 -0.025754 0.028323
-9.58E-07 -0.003833 0.110393
1.00000 0.012019 -0.025754 0.028323
-9.58E-07 -0.015708 0.121192

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.43666 0.017395 0.057305 -0.113685
-7.26E-06 -0.127315 0.022308
0.57749 0.017395 0.057305 -0.113685
-7.26E-06 -0.079648 -0.001719
0.71833 0.017395 0.057305 -0.113685
-7.26E-06 -0.031981 -0.025747
0.85916 0.017395 0.057305 -0.113685
-7.26E-06 0.015687 -0.049774
1.00000 0.017395 0.057305 -0.113685
-7.26E-06 0.063354 -0.073802

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.036104 0.055956 0.580067
6.22E-05 0.646573 -0.142589
0.57749 -0.036104 0.055956 0.580067
6.22E-05 0.403356 -0.166051
0.71833 -0.036104 0.055956 0.580067
6.22E-05 0.160139 -0.189513
0.85916 -0.036104 0.055956 0.580067
6.22E-05 -0.083078 -0.212975
1.00000 -0.036104 0.055956 0.580067
6.22E-05 -0.326295 -0.236436

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.43666 0.019746 -0.206677 -0.535271
-5.96E-05 -0.596770 0.006052
0.57749 0.019746 -0.206677 -0.535271
-5.96E-05 -0.372335 0.092710
0.71833 0.019746 -0.206677 -0.535271
-5.96E-05 -0.147901 0.179368
0.85916 0.019746 -0.206677 -0.535271
-5.96E-05 0.076533 0.266026
1.00000 0.019746 -0.206677 -0.535271
-5.96E-05 0.300968 0.352684

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.010567 0.113723 0.046115
5.38E-06 0.051936 0.053054
0.57749 -0.010567 0.113723 0.046115
5.38E-06 0.032600 0.005371
0.71833 -0.010567 0.113723 0.046115
5.38E-06 0.013265 -0.042312
0.85916 -0.010567 0.113723 0.046115
5.38E-06 -0.006071 -0.089996
1.00000 -0.010567 0.113723 0.046115
5.38E-06 -0.025406 -0.137679

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.43666 0.034652 -0.143925 -0.654505
-6.66E-05 -0.730303 0.011538
0.57749 0.034652 -0.143925 -0.654505
-6.66E-05 -0.455875 0.071884
0.71833 0.034652 -0.143925 -0.654505
-6.66E-05 -0.181447 0.132230
0.85916 0.034652 -0.143925 -0.654505
-6.66E-05 0.092981 0.192577
1.00000 0.034652 -0.143925 -0.654505
-6.66E-05 0.367410 0.252923
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 667
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.43666 -0.034652 0.143925 0.654505
6.66E-05 0.730303 -0.011538
0.57749 -0.034652 0.143925 0.654505
6.66E-05 0.455875 0.071884
0.71833 -0.034652 0.143925 0.654505
6.66E-05 0.181447 -0.132230
0.85916 -0.034652 0.143925 0.654505
6.66E-05 -0.092981 -0.192577
1.00000 -0.034652 0.143925 0.654505
6.66E-05 -0.367410 -0.252923

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.43666 0.034652 0.143925 0.654505
6.66E-05 0.730303 0.077998
0.57749 0.034652 0.143925 0.654505
6.66E-05 0.455875 0.092710
0.71833 0.034652 0.143925 0.654505
6.66E-05 0.181447 0.179368
0.85916 0.034652 0.143925 0.654505
6.66E-05 0.092981 0.266026
1.00000 0.034652 0.143925 0.654505
6.66E-05 0.367410 0.352684

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.43666 -0.036104 -0.206677 -0.654505
-6.66E-05 -0.730303 -0.142589
0.57749 -0.036104 -0.206677 -0.654505
-6.66E-05 -0.455875 -0.166051
0.71833 -0.036104 -0.206677 -0.654505
-6.66E-05 -0.181447 -0.189513
0.85916 -0.036104 -0.206677 -0.654505
-6.66E-05 -0.092981 -0.212975
1.00000 -0.036104 -0.206677 -0.654505
-6.66E-05 -0.367410 -0.252923

ELEM 343 ========== LENGTH = 2.977215

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.003144 0.005784 -0.005645
7.92E-07 -0.003146 -0.025542
0.14084 -0.003144 0.005784 -0.005645
7.92E-07 -0.000779 -0.027967
0.28168 -0.003144 0.005784 -0.005645
7.92E-07 0.001588 -0.030392
0.42251 -0.003144 0.005784 -0.005645
7.92E-07 0.003955 -0.032818
0.56335 -0.003144 0.005784 -0.005645
7.92E-07 0.006322 -0.035243

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.015128 -0.027319 0.029258
-3.84E-06 0.016384 0.119244
0.14084 0.015128 -0.027319 0.029258
-3.84E-06 0.004117 0.130699
0.28168 0.015128 -0.027319 0.029258
-3.84E-06 -0.008151 0.142154
0.42251 0.015128 -0.027319 0.029258
-3.84E-06 -0.020419 0.153609
0.56335 0.015128 -0.027319 0.029258
-3.84E-06 -0.032687 0.165064

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.007168 0.062821 -0.114092
1.31E-05 -0.063622 -0.067278
0.14084 0.007168 0.062821 -0.114092
1.31E-05 -0.015783 -0.093618
0.28168 0.007168 0.062821 -0.114092
1.31E-05 0.032057 -0.119959
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 668
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.42251 0.007168 0.062821 -0.114092
1.31E-05 0.079896 -0.146300
0.56335 0.007168 0.062821 -0.114092
1.31E-05 0.127735 -0.172641

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.030752 0.047919 0.573756
-3.05E-05 0.320632 -0.240160
0.14084 -0.030752 0.047919 0.573756
-3.05E-05 0.080054 -0.260252
0.28168 -0.030752 0.047919 0.573756
-3.05E-05 -0.160524 -0.280345
0.42251 -0.030752 0.047919 0.573756
-3.05E-05 -0.401102 -0.300438
0.56335 -0.030752 0.047919 0.573756
-3.05E-05 -0.641681 -0.320530

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.029546 -0.202407 -0.531129
2.28E-05 -0.297010 0.346280
0.14084 0.029546 -0.202407 -0.531129
2.28E-05 -0.074306 0.431150
0.28168 0.029546 -0.202407 -0.531129
2.28E-05 0.148399 0.516020
0.42251 0.029546 -0.202407 -0.531129
2.28E-05 0.371103 0.600890
0.56335 0.029546 -0.202407 -0.531129
2.28E-05 0.593808 0.685760

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.017945 0.113203 0.047853
-2.39E-06 0.026762 -0.132544
0.14084 -0.017945 0.113203 0.047853
-2.39E-06 0.006697 -0.118011
0.28168 -0.017945 0.113203 0.047853
-2.39E-06 -0.013368 -0.227477
0.42251 -0.017945 0.113203 0.047853
-2.39E-06 -0.033433 -0.274943
0.56335 -0.017945 0.113203 0.047853
-2.39E-06 -0.053498 -0.322409

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.033570 -0.133802 -0.650866
3.68E-05 -0.363778 0.253460
0.14084 0.033570 -0.133802 -0.650866
3.68E-05 -0.090867 0.309564
0.28168 0.033570 -0.133802 -0.650866
3.68E-05 0.182044 0.365668
0.42251 0.033570 -0.133802 -0.650866
3.68E-05 0.454954 0.421772
0.56335 0.033570 -0.133802 -0.650866
3.68E-05 0.727865 0.477876

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.033570 0.133802 0.650866
-3.68E-05 0.363778 -0.253460
0.14084 -0.033570 0.133802 0.650866
-3.68E-05 0.090867 -0.309564
0.28168 -0.033570 0.133802 0.650866
-3.68E-05 -0.182044 -0.365668
0.42251 -0.033570 0.133802 0.650866
-3.68E-05 -0.454954 -0.421772
0.56335 -0.033570 0.133802 0.650866
-3.68E-05 -0.727865 -0.477876

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.033570 0.133802 0.650866
3.68E-05 0.363778 0.346280
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.14084	0.033570	0.133802	0.650866
3.68E-05	0.090867	0.431150	
0.28168	0.033570	0.133802	0.650866
3.68E-05	0.182044	0.516220	
0.42251	0.033570	0.133802	0.650866
3.68E-05	0.454954	0.600890	
0.56335	0.033570	0.133802	0.650866
3.68E-05	0.727865	0.685760	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.033570	-0.202407	-0.650866
-3.68E-05	-0.363778	-0.253460	
0.14084	-0.033570	-0.202407	-0.650866
-3.68E-05	-0.090867	-0.309564	
0.28168	-0.033570	-0.202407	-0.650866
-3.68E-05	-0.182044	-0.365668	
0.42251	-0.033570	-0.202407	-0.650866
-3.68E-05	-0.454954	-0.421772	
0.56335	-0.033570	-0.202407	-0.650866
-3.68E-05	-0.727865	-0.477876	

ELEM 344 ========== LENGTH = 2.976966

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.43669	0.015952	0.006588	-0.007623
6.27E-07	-0.008554	-0.032137	
0.57751	0.015952	0.006588	-0.007623
6.27E-07	-0.005358	-0.034899	
0.71834	0.015952	0.006588	-0.007623
6.27E-07	-0.002162	-0.037661	
0.85917	0.015952	0.006588	-0.007623
6.27E-07	0.001034	-0.040423	
1.00000	0.015952	0.006588	-0.007623
6.27E-07	0.004230	-0.043185	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.43669	-0.074012	-0.030742	0.038223
-2.68E-06	0.042917	0.149628	
0.57751	-0.074012	-0.030742	0.038223
-2.68E-06	0.026893	0.162516	
0.71834	-0.074012	-0.030742	0.038223
-2.68E-06	0.010868	0.175404	
0.85917	-0.074012	-0.030742	0.038223
-2.68E-06	-0.005157	0.188292	
1.00000	-0.074012	-0.030742	0.038223
-2.68E-06	-0.021181	0.201180	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.43669	-0.021101	-0.022880	-0.147515
-4.08E-06	-0.164915	-0.008346	
0.57751	-0.021101	-0.022880	-0.147515
-4.08E-06	-0.103071	0.001247	
0.71834	-0.021101	-0.022880	-0.147515
-4.08E-06	-0.041227	0.010839	
0.85917	-0.021101	-0.022880	-0.147515
-4.08E-06	0.020618	0.020431	
1.00000	-0.021101	-0.022880	-0.147515
-4.08E-06	0.082462	0.030023	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.43669	0.149947	0.251562	0.583841
5.82E-05	0.650165	-0.191455	
0.57751	0.149947	0.251562	0.583841
5.82E-05	0.405395	-0.296920	
0.71834	0.149947	0.251562	0.583841
5.82E-05	0.160625	-0.402385	
0.85917	0.149947	0.251562	0.583841
5.82E-05	-0.084146	-0.507851	
1.00000	0.149947	0.251562	0.583841
5.82E-05	-0.328916	-0.613316	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
670

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.43669	-0.000863	-0.377218	-0.472142
-5.67E-05	-0.525994	-0.053544	
0.57751	-0.000863	-0.377218	-0.472142
-5.67E-05	-0.328053	0.104602	
0.71834	-0.000863	-0.377218	-0.472142
-5.67E-05	-0.130111	0.262747	
0.85917	-0.000863	-0.377218	-0.472142
-5.67E-05	0.067831	0.420893	
1.00000	-0.000863	-0.377218	-0.472142
-5.67E-05	0.265772	0.579038	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.43669	-0.069923	0.172689	0.005217
4.66E-06	0.006381	0.135853	
0.57751	-0.069923	0.172689	0.005217
4.66E-06	0.004194	0.063455	
0.71834	-0.069923	0.172689	0.005217
4.66E-06	0.002007	-0.008944	
0.85917	-0.069923	0.172689	0.005217
4.66E-06	-0.000180	-0.081342	
1.00000	-0.069923	0.172689	0.005217
4.66E-06	-0.002367	-0.153741	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.43669	-0.006012	-0.393509	-0.627280
-6.02E-05	-0.699463	-0.094026	
0.57751	-0.006012	-0.393509	-0.627280
-6.02E-05	-0.436481	0.070950	
0.71834	-0.006012	-0.393509	-0.627280
-6.02E-05	-0.173500	0.235925	
0.85917	-0.006012	-0.393509	-0.627280
-6.02E-05	0.089482	0.400901	
1.00000	-0.006012	-0.393509	-0.627280
-6.02E-05	0.352464	0.565876	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.43669	0.006012	0.393509	0.627280
6.02E-05	0.699463	0.094026	
0.57751	0.006012	0.393509	0.627280
6.02E-05	0.436481	-0.070950	
0.71834	0.006012	0.393509	0.627280
6.02E-05	0.173500	-0.235925	
0.85917	0.006012	0.393509	0.627280
6.02E-05	-0.089482	-0.400901	
1.00000	0.006012	0.393509	0.627280
6.02E-05	-0.352464	-0.565876	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43669	0.149947	0.393509	0.627280
6.02E-05	0.699463	0.149628	
0.57751	0.149947	0.393509	0.627280
6.02E-05	0.436481	0.162516	
0.71834	0.149947	0.393509	0.627280
6.02E-05	0.173500	0.262747	
0.85917	0.149947	0.393509	0.627280
6.02E-05	0.089482	0.420893	
1.00000	0.149947	0.393509	0.627280
6.02E-05	0.352464	0.579038	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43669	-0.074012	-0.393509	-0.627280
-6.02E-05	-0.699463	-0.191455	
0.57751	-0.074012	-0.393509	-0.627280
-6.02E-05	-0.436481	-0.296920	
0.71834	-0.074012	-0.393509	-0.627280
-6.02E-05	-0.173500	-0.402385	
0.85917	-0.074012	-0.393509	-0.627280
-6.02E-05	-0.089482	-0.507851	
1.00000	-0.074012	-0.393509	-0.627280
-6.02E-05	-0.352464	-0.613316	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
671

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 345 ========== LENGTH = 2.977963

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.015552	0.006919	-0.007962
8.54E-07	-0.004473	-0.042952	
0.14086	0.015552	0.006919	-0.007962
8.54E-07	-0.001132	-0.045855	
0.28173	0.015552	0.006919	-0.007962
8.54E-07	0.002208	-0.048757	
0.42259	0.015552	0.006919	-0.007962
8.54E-07	0.005548	-0.051659	
0.56346	0.015552	0.006919	-0.007962
8.54E-07	0.008888	-0.054562	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.072115	-0.032281	0.040146
-4.14E-06	0.022599	0.200096	
0.14086	-0.072115	-0.032281	0.040146
-4.14E-06	0.005758	0.213638	
0.28173	-0.072115	-0.032281	0.040146
-4.14E-06	-0.011083	0.227180	
0.42259	-0.072115	-0.032281	0.040146
-4.14E-06	-0.027924	0.240722	
0.56346	-0.072115	-0.032281	0.040146
-4.14E-06	-0.044765	0.254263	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.026453	-0.018633	-0.146613
1.53E-05	-0.081739	0.033665	
0.14086	-0.026453	-0.018633	-0.146613
1.53E-05	-0.020236	0.041481	
0.28173	-0.026453	-0.018633	-0.146613
1.53E-05	0.041266	0.049298	
0.42259	-0.026453	-0.018633	-0.146613
1.53E-05	0.102769	0.057114	
0.56346	-0.026453	-0.018633	-0.146613
1.53E-05	0.164272	0.064930	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.141603	0.326176	0.573399
-2.99E-05	0.320375	-0.611588	
0.14086	0.141603	0.326176	0.573399
-2.99E-05	0.079839	-0.748416	
0.28173	0.141603	0.326176	0.573399
-2.99E-05	-0.160696	-0.885244	
0.42259	0.141603	0.326176	0.573399
-2.99E-05	-0.401232	-1.022071	
0.56346	0.141603	0.326176	0.573399
-2.99E-05	-0.641767	-1.158899	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.025309	-0.535423	-0.468053
1.58E-05	-0.262235	0.567803	
0.14086	0.025309	-0.535423	-0.468053
1.58E-05	-0.065891	0.792408	
0.28173	0.025309	-0.535423	-0.468053
1.58E-05	0.130452	1.017013	
0.42259	0.025309	-0.535423	-0.468053
1.58E-05	0.326796	1.241619	
0.56346	0.025309	-0.535423	-0.468053
1.58E-05	0.523140	1.466224	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.083896	0.253243	0.009082
2.13E-06	0.005473	-0.147024	
0.14086	-0.083896	0.253243	0.009082
2.13E-06	0.001663	-0.253257	
0.28173	-0.083896	0.253243	0.009082
2.13E-06	-0.002147	-0.359490	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
672

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.42259	-0.083896	0.253243	0.009082
2.13E-06	-0.005957	-0.465723	
0.56346	-0.083896	0.253243	0.009082
2.13E-06	-0.009767	-0.571956	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.014408	-0.547137	-0.622628
3.19E-05	-0.348446	0.558516	
0.14086	0.014408	-0.547137	-0.622628
3.19E-05	-0.087260	0.788035	
0.28173	0.014408	-0.547137	-0.622628
3.19E-05	0.173927	1.017554	
0.42259	0.014408	-0.547137	-0.622628
3.19E-05	0.435113	1.247073	
0.56346	0.014408	-0.547137	-0.622628
3.19E-05	0.696300	1.476592	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.014408	0.547137	0.622628
-3.19E-05	0.348446	-0.558516	
0.14086	-0.014408	0.547137	0.622628
-3.19E-05	0.087260	-0.788035	
0.28173	-0.014408	0.547137	0.622628
-3.19E-05	-0.173927	-1.017554	
0.42259	-0.014408	0.547137	0.622628
-3.19E-05	-0.435113	-1.247073	
0.56346	-0.014408	0.547137	0.622628
-3.19E-05	-0.696300	-1.476592	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.141603	0.547137	0.622628
3.19E-05	0.348446	0.567803	
0.14086	0.141603	0.547137	0.622628
3.19E-05	0.087260	0.792408	
0.28173	0.141603	0.547137	0.622628
3.19E-05	0.173927	1.017554	
0.42259	0.141603	0.547137	0.622628
3.19E-05	0.435113	1.247073	
0.56346	0.141603	0.547137	0.622628
3.19E-05	0.696300	1.476592	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.083896	-0.547137	-0.622628
-3.19E-05	-0.348446	-0.611588	
0.14086	-0.083896	-0.547137	-0.622628
-3.19E-05	-0.087260	-0.788035	
0.28173	-0.083896	-0.547137	-0.622628
-3.19E-05	-0.173927	-1.017554	
0.42259	-0.083896	-0.547137	-0.622628
-3.19E-05	-0.435113	-1.247073	
0.56346	-0.083896	-0.547137	-0.622628
-3.19E-05	-0.696300	-1.476592	

ELEM 346 ========== LENGTH = 2.977840

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.43656	0.041477	0.006238	-0.008704
5.19E-07	-0.009759	-0.062723	
0.57742	0.041477	0.006238	-0.008704
5.19E-07	-0.006108	-0.065340	
0.71828	0.041477	0.006238	-0.008704
5.19E-07	-0.002457	-0.067957	
0.85914	0.041477	0.006238	-0.008704
5.19E-07	0.001193	-0.070573	
1.00000	0.041477	0.006238	-0.008704
5.19E-07	0.004844	-0.073190	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
673

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.43656	-0.192346	-0.028855	0.043379
-2.17E-06	0.048656	0.292256	
0.57742	-0.192346	-0.028855	0.043379
-2.17E-06	0.030460	0.304360	
0.71828	-0.192346	-0.028855	0.043379
-2.17E-06	0.012265	0.316463	
0.85914	-0.192346	-0.028855	0.043379
-2.17E-06	-0.005931	0.328567	
1.00000	-0.192346	-0.028855	0.043379
-2.17E-06	-0.024126	0.340670	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.43656	-0.077853	-0.048473	-0.159416
-7.77E-06	-0.178058	0.033573	
0.57742	-0.077853	-0.048473	-0.159416
-7.77E-06	-0.111189	0.053906	
0.71828	-0.077853	-0.048473	-0.159416
-7.77E-06	-0.044320	0.074238	
0.85914	-0.077853	-0.048473	-0.159416
-7.77E-06	0.022549	0.094571	
1.00000	-0.077853	-0.048473	-0.159416
-7.77E-06	0.089418	0.114903	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.43656	0.415136	0.593381	0.549771
6.12E-05	0.612334	-0.164657	
0.57742	0.415136	0.593381	0.549771
6.12E-05	0.381727	-0.413557	
0.71828	0.415136	0.593381	0.549771
6.12E-05	0.151120	-0.662457	
0.85914	0.415136	0.593381	0.549771
6.12E-05	-0.079486	-0.911356	
1.00000	0.415136	0.593381	0.549771
6.12E-05	-0.310093	-1.160256	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.43656	-0.025649	-0.998419	-0.385737
-5.39E-05	-0.430078	-0.645568	
0.57742	-0.025649	-0.998419	-0.385737
-5.39E-05	-0.268277	-0.226771	
0.71828	-0.025649	-0.998419	-0.385737
-5.39E-05	-0.106476	0.192026	
0.85914	-0.025649	-0.998419	-0.385737
-5.39E-05	0.055326	0.610823	
1.00000	-0.025649	-0.998419	-0.385737
-5.39E-05	0.217127	1.029620	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.43656	-0.160765	0.476128	-0.039292
2.08E-06	-0.043095	0.547119	
0.57742	-0.160765	0.476128	-0.039292
2.08E-06	-0.026614	0.618110	
0.71828	-0.160765	0.476128	-0.039292
2.08E-06	-0.010132	0.147686	
0.85914	-0.160765	0.476128	-0.039292
2.08E-06	0.006349	-0.052031	
1.00000	-0.160765	0.476128	-0.039292
2.08E-06	0.022831	-0.251748	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.43656	-0.062025	-1.040654	-0.553857
-6.11E-05	-0.617895	-0.674718	
0.57742	-0.062025	-1.040654	-0.553857
-6.11E-05	-0.385574	-0.238205	
0.71828	-0.062025	-1.040654	-0.553857
-6.11E-05	-0.153253	0.198307	
0.85914	-0.062025	-1.040654	-0.553857
-6.11E-05	0.079068	0.634820	
1.00000	-0.062025	-1.040654	-0.553857
-6.11E-05	0.311389	-1.071333	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
674

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.43656	0.062025	1.040654	0.553857
6.11E-05	0.617895	0.674718	
0.57742	0.062025	1.040654	0.553857
6.11E-05	0.385574	0.238205	
0.71828	0.062025	1.040654	0.553857
6.11E-05	0.153253	-0.198307	
0.85914	0.062025	1.040654	0.553857
6.11E-05	-0.079068	-0.634820	
1.00000	0.062025	1.040654	0.553857
6.11E-05	-0.311389	-1.071333	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.43656	0.415136	1.040654	0.553857
6.12E-05	0.617895	0.674718	
0.57742	0.415136	1.040654	0.553857
6.12E-05	0.385574	0.347403	
0.71828	0.415136	1.040654	0.553857
6.12E-05	0.153253	0.316463	
0.85914	0.415136	1.040654	0.553857
6.12E-05	0.079068	0.634820	
1.00000	0.415136	1.040654	0.553857
6.12E-05	0.311389	1.071333	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.43656	-0.192346	-1.040654	-0.553857
-6.11E-05	-0.617895	-0.674718	
0.57742	-0.192346	-1.040654	-0.553857
-6.11E-05	-0.385574	-0.413557	
0.71828	-0.192346	-1.040654	-0.553857
-6.11E-05	-0.153253	-0.662457	
0.85914	-0.192346	-1.040654	-0.553857
-6.11E-05	-0.079486	-0.911356	
1.00000	-0.192346	-1.040654	-0.553857
-6.11E-05	-0.311389	-1.160256	

ELEM 347 ========== LENGTH = 2.976844

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.041483	0.003508	-0.009087
1.03E-06	-0.005120	-0.073153	
0.14082	0.041483	0.003508	-0.009087
1.03E-06	-0.001311	-0.074623	
0.28165	0.041483	0.003508	-0.009087
1.03E-06	0.002499	-0.076094	
0.42247	0.041483	0.003508	-0.009087
1.03E-06	0.006308	-0.077564	
0.56330	0.041483	0.003508	-0.009087
1.03E-06	0.010117	-0.079035	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.192367	-0.016125	0.045414
-4.99E-06	0.025618	0.340498	
0.14082	-0.192367	-0.016125	0.045414
-4.99E-06	0.006580	0.347257	
0.28165	-0.192367	-0.016125	0.045414
-4.99E-06	-0.012458	0.354017	
0.42247	-0.192367	-0.016125	0.045414
-4.99E-06	-0.031496	0.360777	
0.56330	-0.192367	-0.016125	0.045414
-4.99E-06	-0.050534	0.367537	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.076204	-0.088002	-0.158872
2.17E-05	-0.088764	0.115525	
0.14082	-0.076204	-0.088002	-0.158872
2.17E-05	-0.022163	0.152416	
0.28165	-0.076204	-0.088002	-0.158872
2.17E-05	0.044437	0.189308	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
675

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.42247	-0.076204	-0.088002	-0.158872
2.17E-05	0.111038	0.226199	
0.56330	-0.076204	-0.088002	-0.158872
2.17E-05	0.177639	0.263090	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.405001	0.583250	0.541929
-3.66E-05	0.302942	-1.155161	
0.14082	0.405001	0.583250	0.541929
-3.66E-05	0.075759	-1.399666	
0.28165	0.405001	0.583250	0.541929
-3.66E-05	-0.151424	-1.644171	
0.42247	0.405001	0.583250	0.541929
-3.66E-05	-0.378607	-1.888675	
0.56330	0.405001	0.583250	0.541929
-3.66E-05	-0.605790	-2.133180	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.010935	-0.896545	-0.384707
1.20E-05	-0.215675	1.018027	
0.14082	-0.010935	-0.896545	-0.384707
1.20E-05	-0.054402	1.393869	
0.28165	-0.010935	-0.896545	-0.384707
1.20E-05	0.106871	1.769710	
0.42247	-0.010935	-0.896545	-0.384707
1.20E-05	0.268145	2.145552	
0.56330	-0.010935	-0.896545	-0.384707
1.20E-05	0.429418	2.521394	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.166979	0.413915	-0.034678
6.83E-06	-0.019000	-0.245736	
0.14082	-0.166979	0.413915	-0.034678
6.83E-06	-0.004463	-0.419253	
0.28165	-0.166979	0.413915	-0.034678
6.83E-06	0.010075	-0.592771	
0.42247	-0.166979	0.413915	-0.034678
6.83E-06	0.024612	-0.766289	
0.56330	-0.166979	0.413915	-0.034678
6.83E-06	0.039150	-0.939806	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.045655	-0.981039	-0.552666
3.48E-05	-0.309560	1.060399	
0.14082	-0.045655	-0.981039	-0.552666
3.48E-05	-0.077876	1.471662	
0.28165	-0.045655	-0.981039	-0.552666
3.48E-05	0.153807	1.882924	
0.42247	-0.045655	-0.981039	-0.552666
3.48E-05	0.385491	2.294187	
0.56330	-0.045655	-0.981039	-0.552666
3.48E-05	0.617174	2.705449	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.045655	0.981039	0.552666
3.48E-05	0.309560	-1.060399	
0.14082	0.045655	0.981039	0.552666
3.48E-05	0.077876	-1.471662	
0.28165	0.045655	0.981039	0.552666
3.48E-05	-0.153807	-1.882924	
0.42247	0.045655	0.981039	0.552666
3.48E-05	-0.385491	-2.294187	
0.56330	0.045655	0.981039	0.552666

-3.48E-05 -0.617174 -2.705449

COMB SETTLE ------------------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.405001	0.981039	0.552666
3.48E-05	0.309560	1.060399	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14082	0.405001	0.981039	0.552666
3.48E-05	0.077876	1.471662	
0.28165	0.405001	0.981039	0.552666
3.48E-05	0.153807	1.882924	
0.42247	0.405001	0.981039	0.552666
3.48E-05	0.385491	2.294187	
0.56330	0.405001	0.981039	0.552666
3.48E-05	0.617174	2.705449	

COMB SETTLE ------------------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.192367	-0.981039	-0.552666
-3.66E-05	-0.309560	-1.155161	
0.14082	-0.192367	-0.981039	-0.552666
-3.66E-05	-0.077876	-1.471662	
0.28165	-0.192367	-0.981039	-0.552666
-3.66E-05	-0.153807	-1.882924	
0.42247	-0.192367	-0.981039	-0.552666
-3.66E-05	-0.385491	-2.294187	
0.56330	-0.192367	-0.981039	-0.552666
-3.66E-05	-0.617174	-2.705449	

ELEM 348 ================== LENGTH = 2.976798

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.039345	-0.020245	-0.009174
6.90E-07	-0.010256	-0.149590	
0.57753	0.039345	-0.020245	-0.009174
6.90E-07	-0.006411	-0.141103	
0.71836	0.039345	-0.020245	-0.009174
6.90E-07	-0.002565	-0.132617	
0.85918	0.039345	-0.020245	-0.009174
6.90E-07	0.001280	-0.124130	
1.00000	0.039345	-0.020245	-0.009174
6.90E-07	0.005126	-0.115644	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.181129	0.094657	0.045584
-2.97E-06	0.050984	0.696832	
0.57753	-0.181129	0.094657	0.045584
-2.97E-06	0.031876	0.657152	
0.71836	-0.181129	0.094657	0.045584
-2.97E-06	0.012767	0.617472	
0.85918	-0.181129	0.094657	0.045584
-2.97E-06	-0.006342	0.577792	
1.00000	-0.181129	0.094657	0.045584
-2.97E-06	-0.025451	0.538112	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.083144	-0.082528	-0.153563
-4.02E-06	-0.171671	0.100826	
0.57753	-0.083144	-0.082528	-0.153563
-4.02E-06	-0.107298	0.135422	
0.71836	-0.083144	-0.082528	-0.153563
-4.02E-06	-0.042924	0.170018	
0.85918	-0.083144	-0.082528	-0.153563
-4.02E-06	0.021450	0.204614	
1.00000	-0.083144	-0.082528	-0.153563
-4.02E-06	0.085823	0.239210	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.414294	0.711993	0.485578
5.02E-05	0.541714	-0.556943	
0.57753	0.414294	0.711993	0.485578
5.02E-05	0.338159	-0.855410	
0.71836	0.414294	0.711993	0.485578
5.02E-05	0.134605	-1.153877	
0.85918	0.414294	0.711993	0.485578
5.02E-05	-0.068949	-1.452344	
1.00000	0.414294	0.711993	0.485578
5.02E-05	-0.272503	-1.750811	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.045990	-1.480451	-0.283524
-4.11E-05	-0.316583	-1.201481	
0.57753	-0.045990	-1.480451	-0.283524
-4.11E-05	-0.197730	-0.580877	
0.71836	-0.045990	-1.480451	-0.283524
-4.11E-05	-0.078877	0.039728	
0.85918	-0.045990	-1.480451	-0.283524
-4.11E-05	0.039976	0.660332	
1.00000	-0.045990	-1.480451	-0.283524
-4.11E-05	0.158829	1.280936	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.143375	0.776574	-0.084902
-2.77E-06	-0.094187	1.110355	
0.57753	-0.143375	0.776574	-0.084902
-2.77E-06	-0.058596	0.784815	
0.71836	-0.143375	0.776574	-0.084902
-2.77E-06	-0.023006	0.459276	
0.85918	-0.143375	0.776574	-0.084902
-2.77E-06	0.012585	0.133736	
1.00000	-0.143375	0.776574	-0.084902
-2.77E-06	0.048176	-0.191803	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.089790	-1.583224	-0.446261
-4.45E-05	-0.498511	-1.250244	
0.57753	-0.089790	-1.583224	-0.446261
-4.45E-05	-0.311439	-0.586558	
0.71836	-0.089790	-1.583224	-0.446261
-4.45E-05	-0.124366	0.077129	
0.85918	-0.089790	-1.583224	-0.446261
-4.45E-05	0.062706	0.740816	
1.00000	-0.089790	-1.583224	-0.446261
-4.45E-05	0.249778	1.404502	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.089790	1.583224	0.446261
4.45E-05	0.498511	1.250244	
0.57753	0.089790	1.583224	0.446261
4.45E-05	0.311439	0.586558	
0.71836	0.089790	1.583224	0.446261
4.45E-05	0.124366	-0.077129	
0.85918	0.089790	1.583224	0.446261
4.45E-05	-0.062706	-0.740816	
1.00000	0.089790	1.583224	0.446261
4.45E-05	-0.249778	-1.404502	

COMB SETTLE ------------------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43671	0.414294	1.583224	0.485578
5.02E-05	0.541714	1.250244	
0.57753	0.414294	1.583224	0.485578
5.02E-05	0.338159	0.784815	
0.71836	0.414294	1.583224	0.485578
5.02E-05	0.134605	0.617472	
0.85918	0.414294	1.583224	0.485578
5.02E-05	0.062706	0.740816	
1.00000	0.414294	1.583224	0.485578
5.02E-05	0.249778	1.404502	

COMB SETTLE ------------------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43671	-0.181129	-1.583224	-0.446261
-4.45E-05	-0.498511	-1.250244	
0.57753	-0.181129	-1.583224	-0.446261
-4.45E-05	-0.311439	-0.855410	
0.71836	-0.181129	-1.583224	-0.446261
-4.45E-05	-0.124366	-1.153877	
0.85918	-0.181129	-1.583224	-0.446261
-4.45E-05	-0.068949	-1.452344	
1.00000	-0.181129	-1.583224	-0.446261
-4.45E-05	-0.272503	-1.750811	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 349 ================== LENGTH = 2.977728

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.039506	-0.020562	-0.008862
5.60E-07	-0.004914	-0.115730	
0.14086	0.039506	-0.020562	-0.008862
5.60E-07	-0.001197	-0.107106	
0.28171	0.039506	-0.020562	-0.008862
5.60E-07	0.002520	-0.098481	
0.42257	0.039506	-0.020562	-0.008862
5.60E-07	0.006237	-0.089857	
0.56343	0.039506	-0.020562	-0.008862
5.60E-07	0.009954	-0.081233	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181918	0.096129	0.044287
-2.79E-06	0.024595	0.538514	
0.14086	-0.181918	0.096129	0.044287
-2.79E-06	0.006019	0.498194	
0.28171	-0.181918	0.096129	0.044287
-2.79E-06	-0.012556	0.457875	
0.42257	-0.181918	0.096129	0.044287
-2.79E-06	-0.031132	0.417555	
0.56343	-0.181918	0.096129	0.044287
-2.79E-06	-0.049707	0.377235	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.078313	-0.097596	-0.153121
1.90E-05	0.065327	0.237663	
0.14086	-0.078313	-0.097596	-0.153121
1.90E-05	-0.021104	0.278798	
0.28171	-0.078313	-0.097596	-0.153121
1.90E-05	0.043120	0.319733	
0.42257	-0.078313	-0.097596	-0.153121
1.90E-05	0.107344	0.360668	
0.56343	-0.078313	-0.097596	-0.153121
1.90E-05	0.171568	0.401603	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.390445	0.778675	0.481841
-3.29E-05	0.268733	-1.741675	
0.14086	0.390445	0.778675	0.481841
-3.29E-05	0.066633	-2.068276	
0.28171	0.390445	0.778675	0.481841
-3.29E-05	-0.135466	-2.394877	
0.42257	0.390445	0.778675	0.481841
-3.29E-05	-0.337566	-2.721478	
0.56343	0.390445	0.778675	0.481841
-3.29E-05	-0.539666	-3.048080	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.014188	-1.573618	-0.282171
5.88E-06	-0.157585	1.265450	
0.14086	-0.014188	-1.573618	-0.282171
5.88E-06	-0.039234	1.925476	
0.28171	-0.014188	-1.573618	-0.282171
5.88E-06	0.079118	2.585502	
0.42257	-0.014188	-1.573618	-0.282171
5.88E-06	0.197470	3.245528	
0.56343	-0.014188	-1.573618	-0.282171
5.88E-06	0.315821	3.905554	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.155532	0.816972	-0.081974
1.02E-05	-0.045501	-0.184422	
0.14086	-0.155532	0.816972	-0.081974
1.02E-05	-0.011118	-0.527087	
0.28171	-0.155532	0.816972	-0.081974
1.02E-05	0.023264	-0.869751	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42257	-0.155532	0.816972	-0.081974
1.02E-05	0.057647	-1.212415	
0.56343	-0.155532	0.816972	-0.081974
1.02E-05	0.092029	-1.555079	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.052994	-1.691776	-0.444154
2.55E-05	-0.247826	1.387583	
0.14086	-0.052994	-1.691776	-0.444154
2.55E-05	-0.061534	2.097168	
0.28171	-0.052994	-1.691776	-0.444154
2.55E-05	0.124758	2.806754	
0.42257	-0.052994	-1.691776	-0.444154
2.55E-05	0.311051	3.516339	
0.56343	-0.052994	-1.691776	-0.444154
2.55E-05	0.497343	4.225924	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.052994	1.691776	0.444154
-2.55E-05	0.247826	-1.387583	
0.14086	0.052994	1.691776	0.444154
-2.55E-05	0.061534	-2.097168	
0.28171	0.052994	1.691776	0.444154
-2.55E-05	-0.124758	-2.806754	
0.42257	0.052994	1.691776	0.444154
-2.55E-05	-0.311051	-3.516339	
0.56343	0.052994	1.691776	0.444154
-2.55E-05	-0.497343	-4.225924	

COMB SETTLE ------------------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.390445	1.691776	0.481841
2.55E-05	0.268733	1.387583	
0.14086	0.390445	1.691776	0.481841
2.55E-05	0.066633	2.097168	
0.28171	0.390445	1.691776	0.481841
2.55E-05	0.124758	2.806754	
0.42257	0.390445	1.691776	0.481841
2.55E-05	0.311051	3.516339	
0.56343	0.390445	1.691776	0.481841
2.55E-05	0.497343	4.225924	

COMB SETTLE ------------------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.181918	-1.691776	-0.444154
-3.29E-05	-0.247826	-1.741675	
0.14086	-0.181918	-1.691776	-0.444154
-3.29E-05	-0.061534	-2.097168	
0.28171	-0.181918	-1.691776	-0.444154
-3.29E-05	-0.135466	-2.806754	
0.42257	-0.181918	-1.691776	-0.444154
-3.29E-05	-0.337566	-3.516339	
0.56343	-0.181918	-1.691776	-0.444154
-3.29E-05	-0.539666	-4.225924	

ELEM 350 ================== LENGTH = 2.976757

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.028024	-0.104455	-0.009159
1.09E-06	-0.008855	-0.355389	
0.57754	-0.028024	-0.104455	-0.009159
1.09E-06	-0.006016	-0.311602	
0.71836	-0.028024	-0.104455	-0.009159
1.09E-06	-0.002176	-0.267816	
0.85918	-0.028024	-0.104455	-0.009159
1.09E-06	0.001663	-0.224030	
1.00000	-0.028024	-0.104455	-0.009159
1.09E-06	0.005502	-0.180243	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.134058	0.486761	0.045659
-4.86E-06	0.049148	1.654968	
0.57754	0.134058	0.486761	0.045659
-4.86E-06	0.030008	1.450923	
0.71836	0.134058	0.486761	0.045659
-4.86E-06	0.010868	1.246878	
0.85918	0.134058	0.486761	0.045659
-4.86E-06	-0.008272	1.042833	
1.00000	0.134058	0.486761	0.045659
-4.86E-06	-0.027412	0.838788	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.030637	-0.024763	-0.145940
-3.96E-06	-0.157272	0.323897	
0.57754	0.030637	-0.024763	-0.145940
-3.96E-06	-0.096095	0.344278	
0.71836	0.030637	-0.024763	-0.145940
-3.96E-06	-0.034918	0.344658	
0.85918	0.030637	-0.024763	-0.145940
-3.96E-06	0.026258	0.355038	
1.00000	0.030637	-0.024763	-0.145940
-3.96E-06	0.087435	0.365419	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.249465	0.339631	0.434079
4.17E-05	0.467130	-1.940945	
0.57754	-0.249465	0.339631	0.434079
4.17E-05	0.285168	-2.083315	
0.71836	-0.249465	0.339631	0.434079
4.17E-05	0.103207	-2.225684	
0.85918	-0.249465	0.339631	0.434079
4.17E-05	-0.078754	-2.368054	
1.00000	-0.249465	0.339631	0.434079
4.17E-05	-0.260716	-2.510424	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.002775	-2.047559	-0.178116
-2.14E-05	-0.191609	-1.864824	
0.57754	0.002775	-2.047559	-0.178116
-2.14E-05	-0.116945	-1.006510	
0.71836	0.002775	-2.047559	-0.178116
-2.14E-05	-0.042281	-0.148196	
0.85918	0.002775	-2.047559	-0.178116
-2.14E-05	0.032384	0.710119	
1.00000	0.002775	-2.047559	-0.178116
-2.14E-05	0.107048	1.568433	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.110019	1.350385	-0.146523
-1.26E-05	-0.157541	2.182293	
0.57754	0.110019	1.350385	-0.146523
-1.26E-05	-0.096120	1.616227	
0.71836	0.110019	1.350385	-0.146523
-1.26E-05	-0.034700	1.050160	
0.85918	0.110019	1.350385	-0.146523
-1.26E-05	0.026721	0.484093	
1.00000	0.110019	1.350385	-0.146523
-1.26E-05	0.088142	-0.081973	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.005388	-2.176777	-0.333216
-2.42E-05	-0.358736	-1.896316	
0.57754	0.005388	-2.176777	-0.333216
-2.42E-05	-0.219056	-1.983835	
0.71836	0.005388	-2.176777	-0.333216
-2.42E-05	-0.079376	-0.071353	
0.85918	0.005388	-2.176777	-0.333216
-2.42E-05	0.060305	0.841128	
1.00000	0.005388	-2.176777	-0.333216
-2.42E-05	0.199985	1.753609	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.005388	2.176777	0.333216
2.42E-05	0.358736	1.896316	
0.57754	-0.005388	2.176777	0.333216
2.42E-05	0.219056	0.983835	
0.71836	-0.005388	2.176777	0.333216
2.42E-05	0.079376	0.071353	
0.85918	-0.005388	2.176777	0.333216
2.42E-05	-0.060305	-0.841128	
1.00000	-0.005388	2.176777	0.333216
2.42E-05	-0.199985	-1.753609	

COMB SETTLE ------------------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.134058	2.176777	0.434079
4.17E-05	0.467130	2.182293	
0.57754	0.134058	2.176777	0.434079
4.17E-05	0.285168	1.616227	
0.71836	0.134058	2.176777	0.434079
4.17E-05	0.103207	1.246878	
0.85918	0.134058	2.176777	0.434079
4.17E-05	0.060305	1.042833	
1.00000	0.134058	2.176777	0.434079
4.17E-05	0.199985	1.753609	

COMB SETTLE ------------------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.249465	-2.176777	-0.333216
-2.42E-05	-0.358736	-1.940945	
0.57754	-0.249465	-2.176777	-0.333216
-2.42E-05	-0.219056	-2.083315	
0.71836	-0.249465	-2.176777	-0.333216
-2.42E-05	-0.079376	-2.225684	
0.85918	-0.249465	-2.176777	-0.333216
-2.42E-05	-0.078754	-2.368054	
1.00000	-0.249465	-2.176777	-0.333216
-2.42E-05	-0.260716	-2.510424	

ELEM 351 ================== LENGTH = 2.977823

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.028924	-0.110258	-0.008097
-2.75E-07	-0.004753	-0.180411	
0.14086	-0.028924	-0.110258	-0.008097
-2.75E-07	-0.001357	-0.134163	
0.28172	-0.028924	-0.110258	-0.008097
-2.75E-07	0.002039	-0.087914	
0.42258	-0.028924	-0.110258	-0.008097
-2.75E-07	0.005436	-0.041666	
0.56344	-0.028924	-0.110258	-0.008097
-2.75E-07	0.008832	0.004583	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.138819	0.513815	0.040816
1.12E-06	0.024011	0.839570	
0.14086	0.138819	0.513815	0.040816
1.12E-06	0.006890	0.624048	
0.28172	0.138819	0.513815	0.040816
1.12E-06	-0.010230	0.408525	
0.42258	0.138819	0.513815	0.040816
1.12E-06	-0.027350	0.193002	
0.56344	0.138819	0.513815	0.040816
1.12E-06	-0.044471	-0.022521	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.008522	-0.044223	-0.146584
1.88E-05	-0.087717	0.362969	
0.14086	0.008522	-0.044223	-0.146584
1.88E-05	-0.026231	0.381518	
0.28172	0.008522	-0.044223	-0.146584
1.88E-05	0.035254	0.400068	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42258	0.008522	-0.044223	-0.146584
1.88E-05	0.096740	0.418618	
0.56344	0.008522	-0.044223	-0.146584
1.88E-05	0.158226	0.437168	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185449	0.351737	0.437985
-3.77E-05	0.262550	-2.501087	
0.14086	-0.185449	0.351737	0.437985
-3.77E-05	0.078834	-2.648626	
0.28172	-0.185449	0.351737	0.437985
-3.77E-05	-0.104881	-2.796164	
0.42258	-0.185449	0.351737	0.437985
-3.77E-05	-0.288596	-2.943702	
0.56344	-0.185449	0.351737	0.437985
-3.77E-05	-0.472311	-3.091241	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.001846	-2.091124	-0.178183
6.37E-06	-0.106972	1.554745	
0.14086	0.001846	-2.091124	-0.178183
6.37E-06	-0.032232	2.431879	
0.28172	0.001846	-2.091124	-0.178183
6.37E-06	0.042508	3.309013	
0.42258	0.001846	-2.091124	-0.178183
6.37E-06	0.117247	4.186147	
0.56344	0.001846	-2.091124	-0.178183
6.37E-06	0.191987	5.063281	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.065185	1.380053	-0.145936
1.16E-05	-0.087118	-0.075785	
0.14086	0.065185	1.380053	-0.145936
1.16E-05	-0.025904	-0.654656	
0.28172	0.065185	1.380053	-0.145936
1.16E-05	0.035310	-1.233528	
0.42258	0.065185	1.380053	-0.145936
1.16E-05	0.096523	-1.812399	
0.56344	0.065185	1.380053	-0.145936
1.16E-05	0.157737	-2.391270	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.018555	-2.245606	-0.332865
2.49E-05	-0.199443	1.737302	
0.14086	-0.018555	-2.245606	-0.332865
2.49E-05	-0.059821	2.679234	
0.28172	-0.018555	-2.245606	-0.332865
2.49E-05	0.079801	3.621167	
0.42258	-0.018555	-2.245606	-0.332865
2.49E-05	0.219423	4.563099	
0.56344	-0.018555	-2.245606	-0.332865
2.49E-05	0.359045	5.505031	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.018555	2.245606	0.332865
-2.49E-05	0.199443	-1.737302	
0.14086	0.018555	2.245606	0.332865
-2.49E-05	0.059821	-2.679234	
0.28172	0.018555	2.245606	0.332865
-2.49E-05	-0.079801	-3.621167	
0.42258	0.018555	2.245606	0.332865
-2.49E-05	-0.219423	-4.563099	
0.56344	0.018555	2.245606	0.332865
-2.49E-05	-0.359045	-5.505031	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.138819	2.245606	0.437985
2.49E-05	0.262550	1.737302	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14086	0.138819	2.245606	0.437985
2.49E-05	0.078834	2.679234	
0.28172	0.138819	2.245606	0.437985
2.49E-05	0.079801	3.621167	
0.42258	0.138819	2.245606	0.437985
2.49E-05	0.219423	4.563099	
0.56344	0.138819	2.245606	0.437985
2.49E-05	0.359045	5.505031	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.185449	-2.245606	-0.332865
-3.77E-05	-0.199443	-2.501087	
0.14086	-0.185449	-2.245606	-0.332865
-3.77E-05	-0.059821	-2.679234	
0.28172	-0.185449	-2.245606	-0.332865
-3.77E-05	-0.104881	-3.621167	
0.42259	-0.185449	-2.245606	-0.332865
-3.77E-05	-0.288596	-4.563099	
0.56344	-0.185449	-2.245606	-0.332865
-3.77E-05	-0.472311	-5.505031	

ELEM 352 ========== LENGTH = 2.976557

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.078353	-0.239320	-0.006667
2.85E-07	-0.007203	-0.630335	
0.57756	-0.078353	-0.239320	-0.006667
2.85E-07	-0.004409	-0.530027	
0.71837	-0.078353	-0.239320	-0.006667
2.85E-07	-0.001614	-0.429719	
0.85919	-0.078353	-0.239320	-0.006667
2.85E-07	0.001180	-0.329411	
1.00000	-0.078353	-0.239320	-0.006667
2.85E-07	0.003975	-0.229102	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43675	0.369712	1.115365	0.033945
-1.13E-06	0.036677	2.936395	
0.57756	0.369712	1.115365	0.033945
-1.13E-06	0.022449	2.468902	
0.71837	0.369712	1.115365	0.033945
-1.13E-06	0.008222	2.001409	
0.85919	0.369712	1.115365	0.033945
-1.13E-06	-0.006006	1.533915	
1.00000	0.369712	1.115365	0.033945
-1.13E-06	-0.020233	1.066422	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43675	0.081976	0.183256	-0.129033
-1.17E-06	-0.138965	0.750174	
0.57756	0.081976	0.183256	-0.129033
-1.17E-06	-0.084883	0.673364	
0.71837	0.081976	0.183256	-0.129033
-1.17E-06	-0.030800	0.596555	
0.85919	0.081976	0.183256	-0.129033
-1.17E-06	0.023283	0.519745	
1.00000	0.081976	0.183256	-0.129033
-1.17E-06	0.077366	0.442935	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.633276	-0.673017	0.379126
2.15E-05	0.407873	-4.135739	
0.57756	-0.633276	-0.673017	0.379126
2.15E-05	0.248967	-3.853651	
0.71837	-0.633276	-0.673017	0.379126
2.15E-05	0.090060	-3.571563	
0.85919	-0.633276	-0.673017	0.379126
2.15E-05	-0.068847	-3.289475	
1.00000	-0.633276	-0.673017	0.379126
2.15E-05	-0.227753	-3.007387	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43675	0.014821	-2.365764	-0.085752
1.75E-07	0.282653	-2.289178	
0.57756	0.014821	-2.365764	-0.085752
1.75E-07	-0.056711	-1.297593	
0.71837	0.014821	-2.365764	-0.085752
1.75E-07	-0.020769	-0.306008	
0.85919	0.014821	-2.365764	-0.085752
1.75E-07	0.015173	0.685577	
1.00000	0.014821	-2.365764	-0.085752
1.75E-07	0.051115	1.677162	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43675	0.245119	1.979481	-0.191619
-1.97E-05	-0.205729	3.368683	
0.57756	0.245119	1.979481	-0.191619
-1.97E-05	-0.125414	2.539005	
0.71837	0.245119	1.979481	-0.191619
-1.97E-05	-0.045099	1.709327	
0.85919	0.245119	1.979481	-0.191619
-1.97E-05	0.035216	0.879649	
1.00000	0.245119	1.979481	-0.191619
-1.97E-05	0.115531	0.049971	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43675	0.018445	-2.421828	-0.221452
-7.11E-07	-0.238821	-2.169340	
0.57756	0.018445	-2.421828	-0.221452
-7.11E-07	-0.146002	-1.154256	
0.71837	0.018445	-2.421828	-0.221452
-7.11E-07	-0.053183	-0.139173	
0.85919	0.018445	-2.421828	-0.221452
-7.11E-07	0.039637	0.875911	
1.00000	0.018445	-2.421828	-0.221452
-7.11E-07	0.132456	1.890995	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.018445	2.421828	0.221452
7.11E-07	0.238821	2.169340	
0.57756	-0.018445	2.421828	0.221452
7.11E-07	0.146002	1.154256	
0.71837	-0.018445	2.421828	0.221452
7.11E-07	0.053183	0.139173	
0.85919	-0.018445	2.421828	0.221452
7.11E-07	-0.039637	-0.875911	
1.00000	-0.018445	2.421828	0.221452
7.11E-07	-0.132456	-1.890995	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43675	0.369712	2.421828	0.379126
2.15E-05	0.407873	3.368683	
0.57756	0.369712	2.421828	0.379126
2.15E-05	0.248967	2.539005	
0.71837	0.369712	2.421828	0.379126
2.15E-05	0.090060	2.001409	
0.85919	0.369712	2.421828	0.379126
2.15E-05	0.039637	1.533915	
1.00000	0.369712	2.421828	0.379126
2.15E-05	0.132456	1.890995	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43675	-0.633276	-2.421828	-0.221452
-1.97E-05	-0.238821	-4.135739	
0.57756	-0.633276	-2.421828	-0.221452
-1.97E-05	-0.146002	-3.853651	
0.71837	-0.633276	-2.421828	-0.221452
-1.97E-05	-0.053183	-3.571563	
0.85919	-0.633276	-2.421828	-0.221452
-1.97E-05	-0.068847	-3.289475	
1.00000	-0.633276	-2.421828	-0.221452
-1.97E-05	-0.227753	-3.007387	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 353 ========== LENGTH = 2.977553

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.076499	-0.235199	-0.006747
6.91E-07	-0.004057	-0.229263	
0.14085	-0.076499	-0.235199	-0.006747
6.91E-07	-0.001228	-0.130623	
0.28170	-0.076499	-0.235199	-0.006747
6.91E-07	0.001601	-0.031984	
0.42255	-0.076499	-0.235199	-0.006747
6.91E-07	0.004431	0.066656	
0.56340	-0.076499	-0.235199	-0.006747
6.91E-07	0.007260	0.165296	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.360455	1.096166	0.034409
-3.38E-06	0.020697	1.067172	
0.14085	0.360455	1.096166	0.034409
-3.38E-06	0.006267	0.607453	
0.28170	0.360455	1.096166	0.034409
-3.38E-06	-0.008164	0.147734	
0.42255	0.360455	1.096166	0.034409
-3.38E-06	-0.022595	-0.311985	
0.56340	0.360455	1.096166	0.034409
-3.38E-06	-0.037025	-0.771704	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.116510	0.139896	-0.127995
1.52E-05	-0.076419	0.439708	
0.14085	0.116510	0.139896	-0.127995
1.52E-05	-0.022279	0.381037	
0.28170	0.116510	0.139896	-0.127995
1.52E-05	0.030940	0.322366	
0.42255	0.116510	0.139896	-0.127995
1.52E-05	0.084620	0.263696	
0.56340	0.116510	0.139896	-0.127995
1.52E-05	0.138299	0.205025	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.733147	-0.591607	0.373195
-2.84E-05	0.222474	-2.996570	
0.14085	-0.733147	-0.591607	0.373195
-2.84E-05	0.065960	-2.748457	
0.28170	-0.733147	-0.591607	0.373195
-2.84E-05	-0.090553	-2.500344	
0.42255	-0.733147	-0.591607	0.373195
-2.84E-05	-0.247067	-2.252231	
0.56340	-0.733147	-0.591607	0.373195
-2.84E-05	-0.403581	-2.004118	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.062586	-2.345427	-0.085620
1.10E-05	-0.050950	1.662904	
0.14085	0.062586	-2.345427	-0.085620
1.10E-05	-0.015042	2.646548	
0.28170	0.062586	-2.345427	-0.085620
1.10E-05	0.020866	3.630192	
0.42255	0.062586	-2.345427	-0.085620
1.10E-05	0.056774	4.613837	
0.56340	0.062586	-2.345427	-0.085620
1.10E-05	0.092682	5.597481	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.270095	1.936171	-0.187243
4.82E-06	-0.111745	0.056049	
0.14085	0.270095	1.936171	-0.187243
4.82E-06	-0.033218	-0.755959	
0.28170	0.270095	1.936171	-0.187243
4.82E-06	0.045310	-1.567966	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42255	0.270095	1.936171	-0.187243
4.82E-06	0.123837	-2.379973	
0.56340	0.270095	1.936171	-0.187243
4.82E-06	0.202364	-3.191980	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.102597	-2.440730	-0.220361
2.70E-05	-0.131426	1.873349	
0.14085	0.102597	-2.440730	-0.220361
2.70E-05	-0.039009	2.896962	
0.28170	0.102597	-2.440730	-0.220361
2.70E-05	0.053408	3.920575	
0.42255	0.102597	-2.440730	-0.220361
2.70E-05	0.145825	4.944189	
0.56340	0.102597	-2.440730	-0.220361
2.70E-05	0.238241	5.967802	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.102597	2.440730	0.220361
-2.70E-05	0.131426	-1.873349	
0.14085	-0.102597	2.440730	0.220361
-2.70E-05	0.039009	-2.896962	
0.28170	-0.102597	2.440730	0.220361
-2.70E-05	-0.053408	-3.920575	
0.42255	-0.102597	2.440730	0.220361
-2.70E-05	-0.145825	-4.944189	
0.56340	-0.102597	2.440730	0.220361
-2.70E-05	-0.238241	-5.967802	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.360455	2.440730	0.373195
2.70E-05	0.222474	1.873349	
0.14085	0.360455	2.440730	0.373195
2.70E-05	0.065960	2.896962	
0.28170	0.360455	2.440730	0.373195
2.70E-05	0.053408	3.920575	
0.42255	0.360455	2.440730	0.373195
2.70E-05	0.145825	4.944189	
0.56340	0.360455	2.440730	0.373195
2.70E-05	0.238241	5.967802	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.733147	-2.440730	-0.220361
-2.84E-05	-0.131426	-2.996570	
0.14085	-0.733147	-2.440730	-0.220361
-2.84E-05	-0.039009	-2.896962	
0.28170	-0.733147	-2.440730	-0.220361
-2.84E-05	-0.090553	-3.920575	
0.42255	-0.733147	-2.440730	-0.220361
-2.84E-05	-0.247067	-4.944189	
0.56340	-0.733147	-2.440730	-0.220361
-2.84E-05	-0.403581	-5.967802	

ELEM 354 ========== LENGTH = 2.976714

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.011684	-0.082402	-0.003004
-7.88E-07	-0.003436	-0.303348	
0.57754	-0.011684	-0.082402	-0.003004
-7.88E-07	-0.002176	-0.268807	
0.71836	-0.011684	-0.082402	-0.003004
-7.88E-07	-0.000917	-0.234265	
0.85918	-0.011684	-0.082402	-0.003004
-7.88E-07	0.000342	-0.199724	
1.00000	-0.011684	-0.082402	-0.003004
-7.88E-07	0.001601	-0.165183	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.057848	0.384288	0.016511
3.86E-06	0.018826	1.412933	
0.57754	0.057848	0.384288	0.016511
3.86E-06	0.011905	1.251848	
0.71836	0.057848	0.384288	0.016511
3.86E-06	0.004984	1.090763	
0.85918	0.057848	0.384288	0.016511
3.86E-06	-0.001937	0.929678	
1.00000	0.057848	0.384288	0.016511
3.86E-06	-0.008858	0.768593	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.004127	-0.008671	-0.094609
1.62E-06	-0.105432	0.335096	
0.57754	0.004127	-0.008671	-0.094609
1.62E-06	-0.065774	0.338731	
0.71836	0.004127	-0.008671	-0.094609
1.62E-06	-0.026117	0.342365	
0.85918	0.004127	-0.008671	-0.094609
1.62E-06	0.013541	0.346000	
1.00000	0.004127	-0.008671	-0.094609
1.62E-06	0.053199	0.349634	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.084173	0.515015	0.274820
-3.27E-06	0.305655	-1.516395	
0.57754	-0.084173	0.515015	0.274820
-3.27E-06	0.190456	-1.732278	
0.71836	-0.084173	0.515015	0.274820
-3.27E-06	0.075258	-1.948161	
0.85918	-0.084173	0.515015	0.274820
-3.27E-06	-0.039941	-2.164044	
1.00000	-0.084173	0.515015	0.274820
-3.27E-06	-0.155140	-2.379928	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.003661	-2.023769	0.042855
2.91E-05	0.074459	-1.860046	
0.57754	-0.003661	-2.023769	0.042855
2.91E-05	0.029495	-1.011726	
0.71836	-0.003661	-2.023769	0.042855
2.91E-05	0.011531	-0.163406	
0.85918	-0.003661	-2.023769	0.042855
2.91E-05	-0.006433	0.684914	
1.00000	-0.003661	-2.023769	0.042855
2.91E-05	-0.024397	1.533234	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.037542	1.215538	-0.236574
-3.05E-05	-0.263072	1.931759	
0.57754	0.037542	1.215538	-0.236574
-3.05E-05	-0.163905	1.422232	
0.71836	0.037542	1.215538	-0.236574
-3.05E-05	-0.064739	0.912704	
0.85918	0.037542	1.215538	-0.236574
-3.05E-05	0.034428	0.403177	
1.00000	0.037542	1.215538	-0.236574
-3.05E-05	0.133594	-0.106351	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.011218	-2.114841	-0.054757
2.99E-05	-0.061409	-1.828298	
0.57754	-0.011218	-2.114841	-0.054757
2.99E-05	-0.038456	-0.941802	
0.71836	-0.011218	-2.114841	-0.054757
2.99E-05	-0.015503	-0.055306	
0.85918	-0.011218	-2.114841	-0.054757
2.99E-05	0.007450	0.831190	
1.00000	-0.011218	-2.114841	-0.054757
2.99E-05	0.030403	1.717686	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.011218	2.114841	0.054757
-2.99E-05	0.061409	1.828298	
0.57754	0.011218	2.114841	0.054757
-2.99E-05	0.038456	0.941802	
0.71836	0.011218	2.114841	0.054757
-2.99E-05	0.015503	0.055306	
0.85918	0.011218	2.114841	0.054757
-2.99E-05	-0.007450	-0.831190	
1.00000	0.011218	2.114841	0.054757
-2.99E-05	-0.030403	-1.717686	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.43672	0.057848	2.114841	0.274820
2.99E-05	0.305655	1.931759	
0.57754	0.057848	2.114841	0.274820
2.99E-05	0.190456	1.422232	
0.71836	0.057848	2.114841	0.274820
2.99E-05	0.075258	1.090763	
0.85918	0.057848	2.114841	0.274820
2.99E-05	0.034428	0.929678	
1.00000	0.057848	2.114841	0.274820
2.99E-05	0.133594	1.717686	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.43672	-0.084173	-2.114841	-0.236574
-3.05E-05	-0.263072	-1.860046	
0.57754	-0.084173	-2.114841	-0.236574
-3.05E-05	-0.163905	-1.732278	
0.71836	-0.084173	-2.114841	-0.236574
-3.05E-05	-0.064739	-1.948161	
0.85918	-0.084173	-2.114841	-0.236574
-3.05E-05	-0.039941	-2.164044	
1.00000	-0.084173	-2.114841	-0.236574
-3.05E-05	-0.155140	-2.379928	

ELEM 355 ========== LENGTH = 2.977709

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.011108	-0.085623	-0.004354
2.04E-06	-0.002594	-0.165442	
0.14086	-0.011108	-0.085623	-0.004354
2.04E-06	-0.000768	-0.129529	
0.28171	-0.011108	-0.085623	-0.004354
2.04E-06	0.001058	-0.093616	
0.42257	-0.011108	-0.085623	-0.004354
2.04E-06	0.002884	-0.057703	
0.56342	-0.011108	-0.085623	-0.004354
2.04E-06	0.004710	-0.021790	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.055150	0.399305	0.022885
-9.69E-06	0.013553	0.769797	
0.14086	0.055150	0.399305	0.022885
-9.69E-06	0.003954	0.602318	
0.28171	0.055150	0.399305	0.022885
-9.69E-06	-0.005644	0.434839	
0.42257	0.055150	0.399305	0.022885
-9.69E-06	-0.015243	0.267360	
0.56342	0.055150	0.399305	0.022885
-9.69E-06	-0.024841	0.099880	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.009311	-0.004773	-0.091656
1.08E-05	-0.050891	0.345839	
0.14086	0.009311	-0.004773	-0.091656
1.08E-05	-0.012448	0.347841	
0.28171	0.009311	-0.004773	-0.091656
1.08E-05	0.025995	0.349843	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42257	0.009311	-0.004773	-0.091656
1.08E-05	0.064438	0.351845	
0.56342	0.009311	-0.004773	-0.091656
1.08E-05	0.102881	0.353847	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.100576	0.489030	0.257831
-1.64E-05	0.142054	-2.367521	
0.14086	-0.100576	0.489030	0.257831
-1.64E-05	0.033912	-2.575634	
0.28171	-0.100576	0.489030	0.257831
-1.64E-05	-0.074229	-2.777746	
0.42257	-0.100576	0.489030	0.257831
-1.64E-05	-0.182370	-2.982859	
0.56342	-0.100576	0.489030	0.257831
-1.64E-05	-0.290512	-3.187971	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.023778	-2.025890	0.043095
1.66E-05	0.024519	1.516183	
0.14086	0.023778	-2.025890	0.043095
1.66E-05	0.006444	2.365896	
0.28171	0.023778	-2.025890	0.043095
1.66E-05	-0.011632	3.215609	
0.42257	0.023778	-2.025890	0.043095
1.66E-05	-0.029707	4.065323	
0.56342	0.023778	-2.025890	0.043095
1.66E-05	-0.047783	4.915036	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.023446	1.227952	-0.227801
-3.23E-06	-0.126640	-0.098856	
0.14086	0.023446	1.227952	-0.227801
-3.23E-06	-0.031094	-0.613892	
0.28171	0.023446	1.227952	-0.227801
-3.23E-06	0.064452	-1.128929	
0.42257	0.023446	1.227952	-0.227801
-3.23E-06	0.159998	-1.643965	
0.56342	0.023446	1.227952	-0.227801
-3.23E-06	0.255544	-2.159002	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	

```
 0.00000     0.021980    -2.116287    -0.052914
 2.94E-05    -0.028966     1.696580
 0.14086     0.021980    -2.116287    -0.052914
 2.94E-05    -0.006773     2.584208
 0.28171     0.021980    -2.116287    -0.052914
 2.94E-05     0.015421     3.471836
 0.42257     0.021980    -2.116287    -0.052914
 2.94E-05     0.037615     4.359464
 0.56342     0.021980    -2.116287    -0.052914
 2.94E-05     0.059809     5.247092

LOAD   -2N+2- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.021980     2.116287     0.052914
-2.94E-05    0.028966    -1.696580
 0.14086    -0.021980     2.116287     0.052914
-2.94E-05    0.006773    -2.584208
 0.28171    -0.021980     2.116287     0.052914
-2.94E-05    -0.015421    -3.471836
 0.42257    -0.021980     2.116287     0.052914
-2.94E-05    -0.037615    -4.359464
 0.56342    -0.021980     2.116287     0.052914
-2.94E-05    -0.059809    -5.247092

COMB  SETTLE -------------------- MAX

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.055150     2.116287     0.257831
 2.94E-05    0.142054     1.696580
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL                SETTLEMENT          >
                                  690

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST             P             V2             V3
       T             M2            M3
 0.14086     0.055150     2.116287     0.257831
 2.94E-05    0.033912     2.584208
 0.28171     0.055150     2.116287     0.257831
 2.94E-05    0.064452     3.471836
 0.42257     0.055150     2.116287     0.257831
 2.94E-05    0.159998     4.359464
 0.56342     0.055150     2.116287     0.257831
 2.94E-05    0.255544     5.247092

COMB  SETTLE -------------------- MIN

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.100576    -2.116287    -0.227801
-2.94E-05    -0.126640    -2.367521
 0.14086    -0.100576    -2.116287    -0.227801
-2.94E-05    -0.031094    -2.584208
 0.28171    -0.100576    -2.116287    -0.227801
-2.94E-05    -0.074229    -3.471836
 0.42257    -0.100576    -2.116287    -0.227801
-2.94E-05    -0.182370    -4.359464
 0.56342    -0.100576    -2.116287    -0.227801
-2.94E-05    -0.290512    -5.247092

ELEM      356 ================== LENGTH
=     2.977856

LOAD      -A1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43656     0.043496    -0.013165    -0.002042
-3.87E-07    -0.002302    -0.130030
 0.57742     0.043496    -0.013165    -0.002042
-3.87E-07    -0.001445    -0.124508
 0.71828     0.043496    -0.013165    -0.002042
-3.87E-07    -0.000589    -0.118986
 0.85914     0.043496    -0.013165    -0.002042
-3.87E-07     0.000268    -0.113463
 1.00000     0.043496    -0.013165    -0.002042
-3.87E-07     0.001125    -0.107941

LOAD      -P1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43656    -0.200899     0.061815     0.011883
 1.97E-06     0.013370     0.605852
 0.57742    -0.200899     0.061815     0.011883
 1.97E-06     0.008386     0.579923
 0.71828    -0.200899     0.061815     0.011883
 1.97E-06     0.003401     0.553994
 0.85914    -0.200899     0.061815     0.011883
 1.97E-06    -0.001583     0.528065
 1.00000    -0.200899     0.061815     0.011883
 1.97E-06    -0.006568     0.502136

LOAD      -P2 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43656    -0.073225    -0.069192    -0.065560
 1.82E-06     0.114840     0.605852
 0.57742    -0.073225    -0.069192    -0.065560
 1.82E-06    -0.045357     0.143864
 0.71828    -0.073225    -0.069192    -0.065560
 1.82E-06    -0.017857     0.172887
 0.85914    -0.073225    -0.069192    -0.065560
 1.82E-06     0.009643     0.201910
 1.00000    -0.073225    -0.069192    -0.065560
 1.82E-06     0.037143     0.230934

LOAD      -P3 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43656     0.413978     0.705985     0.175850
-9.14E-06     0.195030    -0.481286
 0.57742     0.413978     0.705985     0.175850
-9.14E-06     0.121267    -0.777421
 0.71828     0.413978     0.705985     0.175850
-9.14E-06     0.047504    -1.073557
 0.85914     0.413978     0.705985     0.175850
-9.14E-06    -0.026258    -1.369692
 1.00000     0.413978     0.705985     0.175850
-9.14E-06    -0.100021    -1.665827
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL                SETTLEMENT          >
                                  691

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43656    -0.032645    -1.350577     0.167913
 4.55E-05     0.187180    -1.054185
 0.57742    -0.032645    -1.350577     0.167913
 4.55E-05     0.116747    -0.487666
 0.71828    -0.032645    -1.350577     0.167913
 4.55E-05     0.046314     0.078853
 0.85914    -0.032645    -1.350577     0.167913
 4.55E-05    -0.024120     0.645371
 1.00000    -0.032645    -1.350577     0.167913
 4.55E-05    -0.094553     1.211890

LOAD      -P5 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43656    -0.150705     0.665134    -0.288043
-3.98E-05    -0.320421     1.944808
 0.57742    -0.150705     0.665134    -0.288043
-3.98E-05    -0.199597     0.665808
 0.71828    -0.150705     0.665134    -0.288043
-3.98E-05    -0.078773     0.386809
 0.85914    -0.150705     0.665134    -0.288043
-3.98E-05     0.042050     0.107809
 1.00000    -0.150705     0.665134    -0.288043
-3.98E-05     0.162874    -0.171191

LOAD   -2N+1- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43656    -0.062374    -1.432934     0.100310
 4.70E-05     0.112021    -1.069374
 0.57742    -0.062374    -1.432934     0.100310
 4.70E-05     0.069944    -0.468310
 0.71828    -0.062374    -1.432934     0.100310
 4.70E-05     0.027868     0.132754
 0.85914    -0.062374    -1.432934     0.100310
 4.70E-05    -0.014209     0.733818
 1.00000    -0.062374    -1.432934     0.100310
 4.70E-05    -0.056285     1.334882

LOAD   -2N+2- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43656     0.062374     1.432934    -0.100310
-4.70E-05    -0.112021     1.069374
 0.57742     0.062374     1.432934    -0.100310
-4.70E-05    -0.069944     0.468310
 0.71828     0.062374     1.432934    -0.100310
-4.70E-05    -0.027868    -0.132754
 0.85914     0.062374     1.432934    -0.100310
-4.70E-05     0.014209    -0.733818
 1.00000     0.062374     1.432934    -0.100310
-4.70E-05     0.056285    -1.334882

COMB  SETTLE -------------------- MAX

REL DIST             P             V2             V3
       T             M2            M3
 0.43656     0.413978     1.432934     0.175850
 4.70E-05     0.195030     1.069374
 0.57742     0.413978     1.432934     0.175850
 4.70E-05     0.121267     0.665808
 0.71828     0.413978     1.432934     0.175850
 4.70E-05     0.047504     0.553994
 0.85914     0.413978     1.432934     0.175850
 4.70E-05     0.042050     0.733818
 1.00000     0.413978     1.432934     0.175850
 4.70E-05     0.162874     1.334882

COMB  SETTLE -------------------- MIN

REL DIST             P             V2             V3
       T             M2            M3
 0.43656    -0.200899    -1.432934    -0.288043
-4.70E-05    -0.320421    -1.944934
 0.57742    -0.200899    -1.432934    -0.288043
-4.70E-05    -0.199597    -0.777421
 0.71828    -0.200899    -1.432934    -0.288043
-4.70E-05    -0.078773    -1.073557
 0.85914    -0.200899    -1.432934    -0.288043
-4.70E-05    -0.026258    -1.369692
 1.00000    -0.200899    -1.432934    -0.288043
-4.70E-05    -0.100021    -1.665827
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL                SETTLEMENT          >
                                  692

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      357 ================== LENGTH
=     2.976946

LOAD      -A1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.043812    -0.013855    -0.002405
 1.07E-06    -0.001396    -0.108186
 0.14083     0.043812    -0.013855    -0.002405
 1.07E-06    -0.000387    -0.102377
 0.28166     0.043812    -0.013855    -0.002405
 1.07E-06     0.000621    -0.096568
 0.42248     0.043812    -0.013855    -0.002405
 1.07E-06     0.001629    -0.090760
 0.56331     0.043812    -0.013855    -0.002405
 1.07E-06     0.002637    -0.084951

LOAD      -P1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.202408     0.065030     0.013642
-5.15E-06    -0.007881     0.503274
 0.14083    -0.202408     0.065030     0.013642
-5.15E-06     0.002162     0.476011
 0.28166    -0.202408     0.065030     0.013642
-5.15E-06    -0.003557     0.448748
 0.42248    -0.202408     0.065030     0.013642
-5.15E-06    -0.009276     0.421486
 0.56331    -0.202408     0.065030     0.013642
-5.15E-06    -0.014996     0.394223

LOAD      -P2 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.065369    -0.092015    -0.064527
 8.50E-06    -0.036211     0.227129
 0.14083    -0.065369    -0.092015    -0.064527
 8.50E-06    -0.009159     0.265705
 0.28166    -0.065369    -0.092015    -0.064527
 8.50E-06     0.017893     0.304281
 0.42248    -0.065369    -0.092015    -0.064527
 8.50E-06     0.044945     0.342857
 0.56331    -0.065369    -0.092015    -0.064527
 8.50E-06     0.071998     0.381434

LOAD      -P3 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.387605     0.782637     0.169733
-1.78E-05     0.094883    -1.653389
 0.14083     0.387605     0.782637     0.169733
-1.78E-05     0.023725    -1.381499
 0.28166     0.387605     0.782637     0.169733
-1.78E-05    -0.047434    -2.309609
 0.42248     0.387605     0.782637     0.169733
-1.78E-05    -0.118592    -2.637719
 0.56331     0.387605     0.782637     0.169733
-1.78E-05    -0.189751    -2.965829

LOAD      -P4 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.000632    -1.445894     0.166929
 1.36E-05     0.093456     1.194983
 0.14083     0.000632    -1.445894     0.166929
 1.36E-05     0.023473     1.801155
 0.28166     0.000632    -1.445894     0.166929
 1.36E-05    -0.046509     2.407326
 0.42248     0.000632    -1.445894     0.166929
 1.36E-05    -0.116492     3.013497
 0.56331     0.000632    -1.445894     0.166929
 1.36E-05    -0.186474     3.619669

LOAD      -P5 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.164271     0.704097    -0.283372
-2.37E-07    -0.158613    -0.163812
 0.14083    -0.164271     0.704097    -0.283372
-2.37E-07    -0.039814    -0.458995
 0.28166    -0.164271     0.704097    -0.283372
-2.37E-07     0.078986    -0.754178
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL                SETTLEMENT          >
                                  693

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST             P             V2             V3
       T             M2            M3
 0.42248    -0.164271     0.704097    -0.283372
-2.37E-07     0.197786    -1.049362
 0.56331    -0.164271     0.704097    -0.283372
-2.37E-07     0.316586    -1.344545

LOAD   -2N+1- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.020926    -1.551764     0.099996
 2.32E-05     0.055849     1.313927
 0.14083    -0.020926    -1.551764     0.099996
 2.32E-05     0.013927     1.964483
 0.28166    -0.020926    -1.551764     0.099996
 2.32E-05    -0.027995     2.615039
 0.42248    -0.020926    -1.551764     0.099996
 2.32E-05    -0.069917     3.265595
 0.56331    -0.020926    -1.551764     0.099996
 2.32E-05    -0.111839     3.916151

LOAD   -2N+2- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.020926     1.551764    -0.099996
-2.32E-05    -0.055849    -1.313927
 0.14083     0.020926     1.551764    -0.099996
-2.32E-05    -0.013927    -1.964483
 0.28166     0.020926     1.551764    -0.099996
-2.32E-05     0.027995    -2.615039
 0.42248     0.020926     1.551764    -0.099996
-2.32E-05     0.069917    -3.265595
 0.56331     0.020926     1.551764    -0.099996
-2.32E-05     0.111839    -3.916151

COMB  SETTLE -------------------- MAX

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.387605     1.551764     0.169733
 2.32E-05     0.094883     1.313927
 0.14083     0.387605     1.551764     0.169733
 2.32E-05     0.023725     1.964483
 0.28166     0.387605     1.551764     0.169733
 2.32E-05     0.076986     2.615039
 0.42248     0.387605     1.551764     0.169733
 2.32E-05     0.197786     3.265595
 0.56331     0.387605     1.551764     0.169733
 2.32E-05     0.316586     3.916151

COMB  SETTLE -------------------- MIN

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.202408    -1.551764    -0.283372
-2.32E-05    -0.158613    -1.653389
 0.14083    -0.202408    -1.551764    -0.283372
-2.32E-05    -0.039814    -1.981499
 0.28166    -0.202408    -1.551764    -0.283372
-2.32E-05    -0.047434    -2.615039
 0.42248    -0.202408    -1.551764    -0.283372
-2.32E-05    -0.118592    -3.265595
 0.56331    -0.202408    -1.551764    -0.283372
-2.32E-05    -0.189751    -3.916151

ELEM      358 ================== LENGTH
=     2.977254

LOAD      -A1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43664     0.035380     0.005509    -0.001198
-4.49E-07    -0.001321    -0.058778
 0.57748     0.035380     0.005509    -0.001198
-4.49E-07    -0.000818    -0.061088
 0.71832     0.035380     0.005509    -0.001198
-4.49E-07    -0.000316    -0.063398
 0.85916     0.035380     0.005509    -0.001198
-4.49E-07     0.000186    -0.065708
 1.00000     0.035380     0.005509    -0.001198
-4.49E-07     0.000688    -0.068018
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL                SETTLEMENT          >
                                  694

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43664    -0.164289    -0.025279     0.007807
 2.24E-06     0.008638     0.273983
 0.57748    -0.164289    -0.025279     0.007807
 2.24E-06     0.005364     0.284583
 0.71832    -0.164289    -0.025279     0.007807
 2.24E-06     0.002090     0.295183
 0.85916    -0.164289    -0.025279     0.007807
 2.24E-06    -0.001183     0.305783
 1.00000    -0.164289    -0.025279     0.007807
 2.24E-06    -0.004457     0.316383

LOAD      -P2 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43664    -0.056840    -0.085432    -0.037614
 2.05E-06    -0.041750     0.017174
 0.57748    -0.056840    -0.085432    -0.037614
 2.05E-06    -0.025978     0.052997
 0.71832    -0.056840    -0.085432    -0.037614
 2.05E-06    -0.010207     0.088820
 0.85916    -0.056840    -0.085432    -0.037614
 2.05E-06     0.005565     0.124642
 1.00000    -0.056840    -0.085432    -0.037614
 2.05E-06     0.021337     0.160465

LOAD      -P3 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43664     0.334378     0.612854     0.080503
-1.36E-05     0.089137    -0.138125
 0.57748     0.334378     0.612854     0.080503
-1.36E-05     0.055381    -0.395104
 0.71832     0.334378     0.612854
-1.36E-05     0.021626    -0.652082     0.080503
 0.85916     0.334378     0.612854     0.080503
-1.36E-05    -0.012130    -0.909060
 1.00000     0.334378     0.612854     0.080503
-1.36E-05    -0.045886    -1.166038

LOAD      -P4 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43664    -0.018850    -0.903939     0.286766
 5.33E-05     0.319423    -0.564286
 0.57748    -0.018850    -0.903939     0.286766
 5.33E-05     0.199178    -0.185552
 0.71832    -0.018850    -0.903939     0.286766
 5.33E-05     0.078934     0.193781
 0.85916    -0.018850    -0.903939     0.286766
 5.33E-05    -0.041311     0.572815
 1.00000    -0.018850    -0.903939     0.286766
 5.33E-05    -0.161556     0.951849

LOAD      -P5 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43664    -0.129779     0.396287    -0.336264
-4.35E-05    -0.374127     0.470033
 0.57748    -0.129779     0.396287    -0.336264
-4.35E-05    -0.233127     0.303864
 0.71832    -0.129779     0.396287    -0.336264
-4.35E-05    -0.092127     0.137696
 0.85916    -0.129779     0.396287    -0.336264
-4.35E-05     0.048873    -0.028472
 1.00000    -0.129779     0.396287    -0.336264
-4.35E-05     0.189873    -0.194641

LOAD   -2N+1- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43664    -0.040309    -0.983862     0.247954
 5.49E-05     0.276352    -0.605891
 0.57748    -0.040309    -0.983862     0.247954
 5.49E-05     0.172381    -0.193344
 0.71832    -0.040309    -0.983862     0.247954
 5.49E-05     0.068411     0.219203
 0.85916    -0.040309    -0.983862     0.247954
 5.49E-05    -0.035560     0.631749
 1.00000    -0.040309    -0.983862     0.247954
 5.49E-05    -0.139531     1.044296
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL                SETTLEMENT          >
                                  695

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.43664     0.040309     0.983862    -0.247954
-5.49E-05    -0.276352     0.605891
 0.57748     0.040309     0.983862    -0.247954
-5.49E-05    -0.172381     0.193344
 0.71832     0.040309     0.983862    -0.247954
-5.49E-05    -0.068411    -0.219203
 0.85916     0.040309     0.983862    -0.247954
-5.49E-05     0.035560    -0.631749
 1.00000     0.040309     0.983862    -0.247954
-5.49E-05     0.139531    -1.044296

COMB  SETTLE -------------------- MAX

REL DIST             P             V2             V3
       T             M2            M3
 0.43664     0.334378     0.983862     0.286766
 5.49E-05     0.319423     0.605891
 0.57748     0.334378     0.983862     0.286766
 5.49E-05     0.199178     0.303864
 0.71832     0.334378     0.983862     0.286766
 5.49E-05     0.078934     0.295183
 0.85916     0.334378     0.983862     0.286766
 5.49E-05     0.048873     0.631749
 1.00000     0.334378     0.983862     0.286766
 5.49E-05     0.189873     1.044296

COMB  SETTLE -------------------- MIN

REL DIST             P             V2             V3
       T             M2            M3
 0.43664    -0.164289    -0.983862    -0.336264
-5.49E-05    -0.374127    -0.605891
 0.57748    -0.164289    -0.983862    -0.336264
-5.49E-05    -0.233127    -0.395104
 0.71832    -0.164289    -0.983862    -0.336264
-5.49E-05    -0.092127    -0.184298
 0.85916    -0.164289    -0.983862    -0.336264
-5.49E-05     0.048873     0.027488
 1.00000    -0.164289    -0.983862    -0.336264
-5.49E-05    -0.161556    -1.166038

ELEM      359 ================== LENGTH
=     2.977165

LOAD      -A1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.035621     0.005698    -0.000951
 6.04E-07    -0.000520    -0.058249
 0.14084     0.035621     0.005698    -0.000951
 6.04E-07    -0.000121    -0.070638
 0.28167     0.035621     0.005698    -0.000951
 6.04E-07     0.000278    -0.073027
 0.42251     0.035621     0.005698    -0.000951
 6.04E-07     0.000676    -0.075416
 0.56334     0.035621     0.005698    -0.000951
 6.04E-07     0.001075    -0.077805

LOAD      -P1 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.165443    -0.026159     0.006696
-2.97E-06     0.003701     0.317458
 0.14084    -0.165443    -0.026159     0.006696
-2.97E-06     0.000893     0.328426
 0.28167    -0.165443    -0.026159     0.006696
-2.97E-06    -0.001914     0.339394
 0.42251    -0.165443    -0.026159     0.006696
-2.97E-06    -0.004722     0.350363
 0.56334    -0.165443    -0.026159     0.006696
-2.97E-06    -0.007530     0.361331

LOAD      -P2 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.051320    -0.078421    -0.037469
 5.22E-06    -0.021118     0.156949
 0.14084    -0.051320    -0.078421    -0.037469
 5.22E-06    -0.005408     0.189831
 0.28167    -0.051320    -0.078421    -0.037469
 5.22E-06     0.010303     0.222712
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<           UNEQUAL                SETTLEMENT          >
                                  696

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST             P             V2             V3
       T             M2            M3
 0.42251    -0.051320    -0.078421    -0.037469
 5.22E-06     0.026013     0.255594
 0.56334    -0.051320    -0.078421    -0.037469
 5.22E-06     0.041723     0.288475

LOAD      -P3 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.315962     0.588306     0.080430
-1.14E-05     0.045391    -1.154591
 0.14084     0.315962     0.588306     0.080430
-1.14E-05     0.011668    -1.401263
 0.28167     0.315962     0.588306     0.080430
-1.14E-05    -0.022056    -1.647934
 0.42251     0.315962     0.588306     0.080430
-1.14E-05    -0.055780    -1.894606
 0.56334     0.315962     0.588306     0.080430
-1.14E-05    -0.089504    -2.141277

LOAD      -P4 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000     0.004211    -0.873041     0.283725
 4.71E-06     0.158723     0.936257
 0.14084     0.004211    -0.873041     0.283725
 4.71E-06     0.039759     1.302315
 0.28167     0.004211    -0.873041     0.283725
 4.71E-06    -0.079204     1.668374
 0.42251     0.004211    -0.873041     0.283725
 4.71E-06    -0.198167     2.034432
 0.56334     0.004211    -0.873041     0.283725
 4.71E-06    -0.317130     2.400491

LOAD      -P5 ------------------

REL DIST             P             V2             V3
       T             M2            M3
 0.00000    -0.139031     0.383619    -0.332432
 3.87E-06    -0.186178    -0.187824
 0.14084    -0.139031     0.383619    -0.332432
```

```
 3.87E-06   -0.046792   -0.348672
0.28167   -0.139031    0.383619   -0.332432
 3.87E-06    0.092594   -0.509520
0.42251   -0.139031    0.383619   -0.332432
 3.87E-06    0.231980   -0.670367
0.56334   -0.139031    0.383619   -0.332432
 3.87E-06    0.371365   -0.831215

LOAD  -2N+1- -------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.011487   -0.945765    0.245305
 1.05E-05    0.137085    1.024957
0.14084   -0.011487   -0.945765    0.245305
 1.05E-05    0.034231    1.421508
0.28167   -0.011487   -0.945765    0.245305
 1.05E-05   -0.066824    1.818059
0.42251   -0.011487   -0.945765    0.245305
 1.05E-05   -0.171478    2.214610
0.56334   -0.011487   -0.945765    0.245305
 1.05E-05   -0.274332    2.611161

LOAD  -2N+2- -------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.011487    0.945765   -0.245305
-1.05E-05   -0.137085   -1.024957
0.14084    0.011487    0.945765   -0.245305
-1.05E-05   -0.034231   -1.421508
0.28167    0.011487    0.945765   -0.245305
-1.05E-05    0.066824   -1.818059
0.42251    0.011487    0.945765   -0.245305
-1.05E-05    0.171478   -2.214610
0.56334    0.011487    0.945765   -0.245305
-1.05E-05    0.274332   -2.611161

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.315962    0.945765    0.283725
1.05E-05    0.158723    1.024957
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       697

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
0.14084    0.315962    0.945765    0.283725
1.05E-05    0.039759    1.421508
0.28167    0.315962    0.945765    0.283725
1.05E-05    0.092594    1.818059
0.42251    0.315962    0.945765    0.283725
1.05E-05    0.231980    2.214610
0.56334    0.315962    0.945765    0.283725
1.05E-05    0.371365    2.611161

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.165443   -0.945765   -0.332432
-1.14E-05   -0.186178   -1.154591
0.14084   -0.165443   -0.945765   -0.332432
-1.14E-05   -0.046792   -1.421508
0.28167   -0.165443   -0.945765   -0.332432
-1.14E-05   -0.079204   -1.818059
0.42251   -0.165443   -0.945765   -0.332432
-1.14E-05   -0.198167   -2.214610
0.56334   -0.165443   -0.945765   -0.332432
-1.14E-05   -0.317130   -2.611161

ELEM      360 ================== LENGTH
=    2.977638

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43659    0.006545    0.006527   -5.02E-05
-3.04E-07   -4.45E-05   -0.033265
0.57744    0.006545    0.006527   -5.02E-05
-3.04E-07   -2.35E-05   -0.036002
0.71829    0.006545    0.006527   -5.02E-05
-3.04E-07   -2.42E-06   -0.038739
0.85915    0.006545    0.006527   -5.02E-05
-3.04E-07    1.86E-05   -0.041476
1.00000    0.006545    0.006527   -5.02E-05
-3.04E-07    3.97E-05   -0.044214

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43659   -0.030526   -0.030180    0.002334
 1.56E-06    0.002548    0.155013
0.57744   -0.030526   -0.030180    0.002334
 1.56E-06    0.001570    0.167671
0.71829   -0.030526   -0.030180    0.002334
 1.56E-06    0.000591    0.180328
0.85915   -0.030526   -0.030180    0.002334
 1.56E-06   -0.000388    0.192986
1.00000   -0.030526   -0.030180    0.002334
 1.56E-06   -0.001367    0.205644

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43659   -0.019058   -0.040280   -0.013052
 1.51E-06   -0.014412    0.025158
0.57744   -0.019058   -0.040280   -0.013052
 1.51E-06   -0.008937   -0.042051
0.71829   -0.019058   -0.040280   -0.013052
 1.51E-06   -0.003463    0.058945
0.85915   -0.019058   -0.040280   -0.013052
 1.51E-06    0.002011    0.075839
1.00000   -0.019058   -0.040280   -0.013052
 1.51E-06    0.007485    0.092733

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43659    0.092368    0.326080   -0.001572
-1.27E-05   -0.002182    0.198808
0.57744    0.092368    0.326080   -0.001572
-1.27E-05   -0.001522   -0.335570
0.71829    0.092368    0.326080   -0.001572
-1.27E-05   -0.000863   -0.472331
0.85915    0.092368    0.326080   -0.001572
-1.27E-05   -0.000203   -0.609092
1.00000    0.092368    0.326080   -0.001572
-1.27E-05    0.000456   -0.745853
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       698

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43659   -0.020639   -0.462667    0.392295
 5.51E-05    0.436840   -0.148320
0.57744   -0.020639   -0.462667    0.392295
 5.51E-05    0.272307    0.045727
0.71829   -0.020639   -0.462667    0.392295
 5.51E-05    0.107775    0.239774
0.85915   -0.020639   -0.462667    0.392295
 5.51E-05   -0.056757    0.433821
1.00000   -0.020639   -0.462667    0.392295
 5.51E-05   -0.221290    0.627867

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43659   -0.028690    0.200520   -0.379955
-4.51E-05   -0.042751
0.57744   -0.028690    0.200520   -0.379955
-4.51E-05   -0.263394    0.116122
0.71829   -0.028690    0.200520   -0.379955
-4.51E-05   -0.104038    0.032023
0.85915   -0.028690    0.200520   -0.379955
-4.51E-05    0.055319   -0.052077
1.00000   -0.028690    0.200520   -0.379955
-4.51E-05    0.214676   -0.136177

LOAD  -2N+1- -------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43659   -0.033152   -0.496420    0.379193
 5.63E-05    0.422384   -0.156427
0.57744   -0.033152   -0.496420    0.379193
 5.63E-05    0.263346    0.051777
0.71829   -0.033152   -0.496420    0.379193
 5.63E-05    0.104309    0.259980
0.85915   -0.033152   -0.496420    0.379193
 5.63E-05   -0.054728    0.468183
1.00000   -0.033152   -0.496420    0.379193
 5.63E-05   -0.213765    0.676386

LOAD  -2N+2- -------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43659    0.033152    0.496420   -0.379193
-5.63E-05   -0.422384    0.156427
0.57744    0.033152    0.496420   -0.379193
-5.63E-05   -0.263346   -0.051777
0.71829    0.033152    0.496420   -0.379193
-5.63E-05   -0.104309   -0.259980
0.85915    0.033152    0.496420   -0.379193
-5.63E-05    0.054728   -0.468183
1.00000    0.033152    0.496420   -0.379193
-5.63E-05    0.213765   -0.676386

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43659    0.092368    0.496420    0.392295
5.63E-05    0.436840    0.200222
0.57744    0.092368    0.496420    0.392295
5.63E-05    0.272307    0.167671
0.71829    0.092368    0.496420    0.392295
5.63E-05    0.107775    0.259980
0.85915    0.092368    0.496420    0.392295
5.63E-05    0.055319    0.468183
1.00000    0.092368    0.496420    0.392295
5.63E-05    0.214676    0.676386

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43659   -0.033152   -0.496420   -0.379955
-5.63E-05   -0.422751   -0.198808
0.57744   -0.033152   -0.496420   -0.379955
-5.63E-05   -0.263394   -0.335570
0.71829   -0.033152   -0.496420   -0.379955
-5.63E-05   -0.104309   -0.472331
0.85915   -0.033152   -0.496420   -0.379955
-5.63E-05   -0.056757   -0.609092
1.00000   -0.033152   -0.496420   -0.379955
-5.63E-05   -0.221290   -0.745853
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       699

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      361 ================== LENGTH
=    2.977543

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.006839    0.005921    0.000186
1.73E-07    0.000117   -0.044418
0.14085    0.006839    0.005921    0.000186
1.73E-07    3.88E-05   -0.046901
0.28170    0.006839    0.005921    0.000186
1.73E-07   -3.90E-05   -0.049384
0.42255    0.006839    0.005921    0.000186
1.73E-07   -0.000117   -0.051868
0.56340    0.006839    0.005921    0.000186
1.73E-07   -0.000195   -0.054351

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.031926   -0.027360    0.001253
-9.54E-07   -0.001651   -0.226595
0.14085   -0.031926   -0.027360    0.001253
-9.54E-07    0.000125    0.218069
0.28170   -0.031926   -0.027360    0.001253
-9.54E-07   -0.000400    0.229543
0.42255   -0.031926   -0.027360    0.001253
-9.54E-07    0.000926    0.241018
0.56340   -0.031926   -0.027360    0.001253
-9.54E-07   -0.001451    0.252492

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.013242   -0.050699   -0.013030
 2.15E-06   -0.007405    0.089604
0.14085   -0.013242   -0.050699   -0.013030
 2.15E-06   -0.001940    0.110867
0.28170   -0.013242   -0.050699   -0.013030
 2.15E-06    0.003524    0.132129
0.42255   -0.013242   -0.050699   -0.013030
 2.15E-06    0.008989    0.153392
0.56340   -0.013242   -0.050699   -0.013030
 2.15E-06    0.014453    0.174654

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.073125    0.359964   -0.000860
-4.28E-06   -0.000187   -0.735676
0.14085    0.073125    0.359964   -0.000860
-4.28E-06    0.000173   -0.886639
0.28170    0.073125    0.359964   -0.000860
-4.28E-06    0.000534   -1.037603
0.42255    0.073125    0.359964   -0.000860
-4.28E-06    0.000895   -1.188567
0.56340    0.073125    0.359964   -0.000860
-4.28E-06    0.001255   -1.339530

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.003897   -0.507750    0.387756
-5.98E-06    0.217056    0.614027
0.14085    0.003897   -0.507750    0.387756
-5.98E-06    0.054437    0.826970
0.28170    0.003897   -0.507750    0.387756
-5.98E-06   -0.108182    1.039914
0.42255    0.003897   -0.507750    0.387756
-5.98E-06   -0.270801    1.252857
0.56340    0.003897   -0.507750    0.387756
-5.98E-06   -0.433421    1.465800

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.038692    0.219924   -0.375305
 8.89E-06   -0.210232   -0.130133
0.14085   -0.038692    0.219924   -0.375305
 8.89E-06   -0.052834   -0.222366
0.28170   -0.038692    0.219924   -0.375305
 8.89E-06    0.104563   -0.314599
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       700

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
0.42255   -0.038692    0.219924   -0.375305
 8.89E-06    0.261961   -0.406832
0.56340   -0.038692    0.219924   -0.375305
 8.89E-06    0.419358   -0.499065

LOAD  -2N+1- -------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.002507   -0.552528    0.374911
-3.66E-06    0.209768    0.659214
0.14085   -0.002507   -0.552528    0.374911
-3.66E-06    0.052536    0.890936
0.28170   -0.002507   -0.552528    0.374911
-3.66E-06   -0.104697    1.122659
0.42255   -0.002507   -0.552528    0.374911
-3.66E-06   -0.261929    1.354381
0.56340   -0.002507   -0.552528    0.374911
-3.66E-06   -0.419162    1.586104

LOAD  -2N+2- -------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.002507    0.552528   -0.374911
 3.66E-06   -0.209768   -0.659214
0.14085    0.002507    0.552528   -0.374911
 3.66E-06   -0.052536   -0.890936
0.28170    0.002507    0.552528   -0.374911
 3.66E-06    0.104697   -1.122659
0.42255    0.002507    0.552528   -0.374911
 3.66E-06    0.261929   -1.354381
0.56340    0.002507    0.552528   -0.374911
 3.66E-06    0.419162   -1.586104

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.073125    0.552528    0.387756
8.89E-06    0.217056    0.659214
0.14085    0.073125    0.552528    0.387756
8.89E-06    0.054437    0.890936
0.28170    0.073125    0.552528    0.387756
8.89E-06    0.104697    1.122659
0.42255    0.073125    0.552528    0.387756
8.89E-06    0.261961    1.354381
0.56340    0.073125    0.552528    0.387756
8.89E-06    0.419358    1.586104

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.038692   -0.552528   -0.375305
-5.98E-06   -0.210232   -0.735676
0.14085   -0.038692   -0.552528   -0.375305
-5.98E-06   -0.052834   -0.890936
0.28170   -0.038692   -0.552528   -0.375305
-5.98E-06   -0.108182   -1.122659
0.42255   -0.038692   -0.552528   -0.375305
-5.98E-06   -0.270801   -1.354381
0.56340   -0.038692   -0.552528   -0.375305
-5.98E-06   -0.433421   -1.586104

ELEM      362 ================== LENGTH
=    2.977005

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43668   -0.013289    0.003029    0.001204
-1.43E-07    0.001337   -0.026387
0.57751   -0.013289    0.003029    0.001204
-1.43E-07    0.000833   -0.027657
0.71834   -0.013289    0.003029    0.001204
-1.43E-07    0.000328   -0.028928
0.85917   -0.013289    0.003029    0.001204
-1.43E-07   -0.000177   -0.030198
1.00000   -0.013289    0.003029    0.001204
-1.43E-07   -0.000681   -0.031468
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       701

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43668    0.061685   -0.014005   -0.003614
 7.99E-07   -0.004010    0.122848
0.57751    0.061685   -0.014005   -0.003614
 7.99E-07   -0.002495    0.128720
0.71834    0.061685   -0.014005   -0.003614
 7.99E-07   -0.000980    0.134591
0.85917    0.061685   -0.014005   -0.003614
 7.99E-07    0.000536    0.140463
1.00000    0.061685   -0.014005   -0.003614
 7.99E-07    0.002051    0.146334

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43668    0.000698   -0.019281    0.008028
 9.46E-07    0.009085    0.028007
0.57751    0.000698   -0.019281    0.008028
 9.46E-07    0.005719    0.036090
0.71834    0.000698   -0.019281    0.008028
 9.46E-07    0.002354    0.044173
0.85917    0.000698   -0.019281    0.008028
 9.46E-07   -0.001012    0.052257
1.00000    0.000698   -0.019281    0.008028
 9.46E-07   -0.004378    0.060340

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43668   -0.055779    0.164797   -0.070926
-1.07E-05   -0.079499   -0.233677
0.57751   -0.055779    0.164797   -0.070926
-1.07E-05   -0.049764   -0.302768
0.71834   -0.055779    0.164797   -0.070926
-1.07E-05   -0.020028   -0.371859
0.85917   -0.055779    0.164797   -0.070926
-1.07E-05    0.009707   -0.440950
1.00000   -0.055779    0.164797   -0.070926
-1.07E-05    0.039443   -0.510042

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43668   -0.043186   -0.253923    0.484241
 5.50E-05    0.539026   -0.007196
0.57751   -0.043186   -0.253923    0.484241
 5.50E-05    0.336007    0.099262
0.71834   -0.043186   -0.253923    0.484241
 5.50E-05    0.132988    0.205719
0.85917   -0.043186   -0.253923    0.484241
 5.50E-05   -0.070031    0.312176
1.00000   -0.043186   -0.253923    0.484241
 5.50E-05   -0.273050    0.418634

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43668    0.049871    0.119382   -0.418933
-4.59E-05   -0.465939
0.57751    0.049871    0.119382   -0.418933
-4.59E-05   -0.290300    0.066354
0.71834    0.049871    0.119382   -0.418933
-4.59E-05   -0.114662    0.016303
0.85917    0.049871    0.119382   -0.418933
-4.59E-05    0.060977   -0.033748
1.00000    0.049871    0.119382   -0.418933
-4.59E-05    0.236615   -0.083799

LOAD  -2N+1- -------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43668   -0.055777   -0.270174    0.493473
 5.58E-05    0.549448   -0.005576
0.57751   -0.055777   -0.270174    0.493473
 5.58E-05    0.342559    0.107694
0.71834   -0.055777   -0.270174    0.493473
 5.58E-05    0.135670    0.220965
0.85917   -0.055777   -0.270174    0.493473
 5.58E-05   -0.071220    0.334235
1.00000   -0.055777   -0.270174    0.493473
 5.58E-05   -0.278109    0.447506
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       702

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- -------------------

REL DIST          P          V2          V3
       T         M2         M3
0.43668    0.055777    0.270174   -0.493473
-5.58E-05   -0.549448    0.005576
0.57751    0.055777    0.270174   -0.493473
-5.58E-05   -0.342559   -0.107694
0.71834    0.055777    0.270174   -0.493473
-5.58E-05   -0.135670   -0.220965
0.85917    0.055777    0.270174   -0.493473
-5.58E-05    0.071220   -0.334235
1.00000    0.055777    0.270174   -0.493473
-5.58E-05    0.278109   -0.447506

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T         M2         M3
0.43668    0.061685    0.270174    0.493473
5.58E-05    0.549448    0.122848
0.57751    0.061685    0.270174    0.493473
5.58E-05    0.342559    0.128720
0.71834    0.061685    0.270174    0.493473
5.58E-05    0.135670    0.220965
0.85917    0.061685    0.270174    0.493473
5.58E-05    0.071220    0.334235
1.00000    0.061685    0.270174    0.493473
5.58E-05    0.278109    0.447506

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T         M2         M3
0.43668   -0.055779   -0.270174   -0.493473
-5.58E-05   -0.549448   -0.233677
0.57751   -0.055779   -0.270174   -0.493473
-5.58E-05   -0.342559   -0.302768
0.71834   -0.055779   -0.270174   -0.493473
-5.58E-05   -0.135670   -0.371859
0.85917   -0.055779   -0.270174   -0.493473
-5.58E-05   -0.071220   -0.440950
1.00000   -0.055779   -0.270174   -0.493473
-5.58E-05   -0.278109   -0.510042

ELEM      363 ================== LENGTH
=    2.977005

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.013047    0.003031    0.001214
-1.05E-07    0.000670   -0.031647
0.14083   -0.013047    0.003031    0.001214
-1.05E-07    0.000761   -0.032918
0.28166   -0.013047    0.003031    0.001214
-1.05E-07   -0.000348   -0.034189
0.42249   -0.013047    0.003031    0.001214
-1.05E-07   -0.000857   -0.035459
0.56332   -0.013047    0.003031    0.001214
-1.05E-07   -0.001366   -0.036730

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.060533   -0.014013   -0.003659
 3.49E-07   -0.001998    0.114199
0.14083    0.060533   -0.014013   -0.003659
 3.49E-07   -0.000464    0.153044
0.28166    0.060533   -0.014013   -0.003659
 3.49E-07    0.001070    0.158919
0.42249    0.060533   -0.014013   -0.003659
 3.49E-07    0.002604    0.164794
0.56332    0.060533   -0.014013   -0.003659
 3.49E-07    0.004138    0.170669

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000    0.005039   -0.019289    0.008108
-1.06E-06    0.004449    0.057601
0.14083    0.005039   -0.019289    0.008108
-1.06E-06    0.001049    0.065688
0.28166    0.005039   -0.019289    0.008108
-1.06E-06   -0.002350    0.073775
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       703

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2         M3
0.42249    0.005039   -0.019289    0.008108
-1.06E-06   -0.005749    0.081862
0.56332    0.005039   -0.019289    0.008108
-1.06E-06   -0.009148    0.089949

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.070054    0.164652   -0.071023
 4.82E-06   -0.039575   -0.501139
0.14083   -0.070054    0.164652   -0.071023
 4.82E-06   -0.009798   -0.570170
0.28166   -0.070054    0.164652   -0.071023
 4.82E-06    0.019979   -0.639201
0.42249   -0.070054    0.164652   -0.071023
 4.82E-06    0.049755   -0.708232
0.56332   -0.070054    0.164652   -0.071023
 4.82E-06    0.079532   -0.777262

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T         M2         M3
0.00000   -0.024867   -0.253557    0.477951
-1.82E-05    0.267269    0.406526
0.14083   -0.024867   -0.253557    0.477951
-1.82E-05    0.066888    0.512830
0.28166   -0.024867   -0.253557    0.477951
-1.82E-05   -0.133494    0.619135
```

```
 0.42249   -0.024867   -0.253557    0.477951
-1.82E-05   -0.333876    0.725439
 0.56332   -0.024867   -0.253557    0.477951
-1.82E-05   -0.534257    0.831743

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.042395    0.119176   -0.412591
 1.41E-05   -0.230816   -0.078510
 0.14083    0.042395    0.119176   -0.412591
 1.41E-05   -0.057836   -0.128475
 0.28166    0.042395    0.119176   -0.412591
 1.41E-05    0.115143   -0.178439
 0.42249    0.042395    0.119176   -0.412591
 1.41E-05    0.288122   -0.228404
 0.56332    0.042395    0.119176   -0.412591
 1.41E-05    0.461101   -0.278368

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.032874   -0.269815    0.487273
-1.93E-05    0.272388    0.432481
 0.14083   -0.032874   -0.269815    0.487273
-1.93E-05    0.068098    0.545601
 0.28166   -0.032874   -0.269815    0.487273
-1.93E-05   -0.136192    0.658721
 0.42249   -0.032874   -0.269815    0.487273
-1.93E-05   -0.340481    0.771842
 0.56332   -0.032874   -0.269815    0.487273
-1.93E-05   -0.544771    0.884962

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.032874    0.269815   -0.487273
 1.93E-05   -0.272388   -0.432481
 0.14083    0.032874    0.269815   -0.487273
 1.93E-05   -0.068098   -0.545601
 0.28166    0.032874    0.269815   -0.487273
 1.93E-05    0.136192   -0.658721
 0.42249    0.032874    0.269815   -0.487273
 1.93E-05    0.340481   -0.771842
 0.56332    0.032874    0.269815   -0.487273
 1.93E-05    0.544771   -0.884962

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.060533    0.269815    0.487273
 1.93E-05    0.272388    0.432481
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      704

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.14083    0.060533    0.269815    0.487273
 1.93E-05    0.068098    0.545601
 0.28166    0.060533    0.269815    0.487273
 1.93E-05    0.136192    0.658721
 0.42249    0.060533    0.269815    0.487273
 1.93E-05    0.340481    0.771842
 0.56332    0.060533    0.269815    0.487273
 1.93E-05    0.544771    0.884962

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.070054   -0.269815   -0.487273
-1.93E-05   -0.272388   -0.501139
 0.14083   -0.070054   -0.269815   -0.487273
-1.93E-05   -0.068098   -0.570170
 0.28166   -0.070054   -0.269815   -0.487273
-1.93E-05   -0.136192   -0.658721
 0.42249   -0.070054   -0.269815   -0.487273
-1.93E-05   -0.340481   -0.771842
 0.56332   -0.070054   -0.269815   -0.487273
-1.93E-05   -0.544771   -0.884962

ELEM      364 ================== LENGTH
=     2.977432

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43662   -0.017486    0.002385    0.002329
 4.81E-08    0.002572   -0.024504
 0.57746   -0.017486    0.002385    0.002329
 4.81E-08    0.001596   -0.025504
 0.71831   -0.017486    0.002385    0.002329
 4.81E-08    0.000619   -0.026505
 0.85915   -0.017486    0.002385    0.002329
 4.81E-08   -0.000358   -0.027505
 1.00000   -0.017486    0.002385    0.002329
 4.81E-08   -0.001335   -0.028505

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43662    0.081252   -0.011050   -0.008952
-9.35E-08   -0.009869    0.113985
 0.57746    0.081252   -0.011050   -0.008952
-9.35E-08   -0.006115    0.118619
 0.71831    0.081252   -0.011050   -0.008952
-9.35E-08   -0.002361    0.123253
 0.85915    0.081252   -0.011050   -0.008952
-9.35E-08    0.001393    0.127887
 1.00000    0.081252   -0.011050   -0.008952
-9.35E-08    0.005147    0.132521

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43662    0.002444   -0.001560    0.025236
 3.42E-07    0.028219    0.032827
 0.57746    0.002444   -0.001560    0.025236
 3.42E-07    0.017636    0.033481
 0.71831    0.002444   -0.001560    0.025236
 3.42E-07    0.007053    0.034135
 0.85915    0.002444   -0.001560    0.025236
 3.42E-07   -0.003530    0.034790
 1.00000    0.002444   -0.001560    0.025236
 3.42E-07   -0.014112    0.035444

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43662   -0.079775    0.061434   -0.126964
-7.98E-06   -0.141863   -0.253650
 0.57746   -0.079775    0.061434   -0.126964
-7.98E-06   -0.088620   -0.279413
 0.71831   -0.079775    0.061434   -0.126964
-7.98E-06   -0.035377   -0.305176
 0.85915   -0.079775    0.061434   -0.126964
-7.98E-06    0.017867   -0.330938
 1.00000   -0.079775    0.061434   -0.126964
-7.98E-06    0.071110   -0.356701
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      705

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43662   -0.060049   -0.114554    0.558450
 5.41E-05    0.621463    0.026021
 0.57746   -0.060049   -0.114554    0.558450
 5.41E-05    0.387273    0.074060
 0.71831   -0.060049   -0.114554    0.558450
 5.41E-05    0.153083    0.122100
 0.85915   -0.060049   -0.114554    0.558450
 5.41E-05   -0.081108    0.170139
 1.00000   -0.060049   -0.114554    0.558450
 5.41E-05   -0.315298    0.218178

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43662    0.073614    0.063345   -0.450099
-4.64E-05   -0.500522    0.105321
 0.57746    0.073614    0.063345   -0.450099
-4.64E-05   -0.311769    0.078757
 0.71831    0.073614    0.063345   -0.450099
-4.64E-05   -0.123017    0.052192
 0.85915    0.073614    0.063345   -0.450099
-4.64E-05    0.065735    0.025628
 1.00000    0.073614    0.063345   -0.450099
-4.64E-05    0.254488   -0.000936

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43662   -0.075090   -0.113729    0.586015
 5.44E-05    0.652254    0.034344
 0.57746   -0.075090   -0.113729    0.586015
 5.44E-05    0.406504    0.082037
 0.71831   -0.075090   -0.113729    0.586015
 5.44E-05    0.160754    0.129730
 0.85915   -0.075090   -0.113729    0.586015
 5.44E-05   -0.084996    0.177424
 1.00000   -0.075090   -0.113729    0.586015
 5.44E-05   -0.330745    0.225117

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43662    0.075090    0.113729   -0.586015
-5.44E-05   -0.652254   -0.034344
 0.57746    0.075090    0.113729   -0.586015
-5.44E-05   -0.406504   -0.082037
 0.71831    0.075090    0.113729   -0.586015
-5.44E-05   -0.160754   -0.129730
 0.85915    0.075090    0.113729   -0.586015
-5.44E-05    0.084996   -0.177424
 1.00000    0.075090    0.113729   -0.586015
-5.44E-05    0.330745   -0.225117

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43662    0.081252    0.113729    0.586015
 5.44E-05    0.652254    0.113985
 0.57746    0.081252    0.113729    0.586015
 5.44E-05    0.406504    0.118619
 0.71831    0.081252    0.113729    0.586015
 5.44E-05    0.160754    0.123390
 0.85915    0.081252    0.113729    0.586015
 5.44E-05    0.084996    0.177424
 1.00000    0.081252    0.113729    0.586015
 5.44E-05    0.330745    0.225117

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43662   -0.079775   -0.114554   -0.586015
-5.44E-05   -0.652254   -0.253650
 0.57746   -0.079775   -0.114554   -0.586015
-5.44E-05   -0.406504   -0.279413
 0.71831   -0.079775   -0.114554   -0.586015
-5.44E-05   -0.160754   -0.305176
 0.85915   -0.079775   -0.114554   -0.586015
-5.44E-05   -0.084996   -0.330938
 1.00000   -0.079775   -0.114554   -0.586015
-5.44E-05   -0.330745   -0.356701
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      706

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      365 ================== LENGTH
=     2.977536

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.017288    0.002392    0.002086
-3.11E-07    0.001135   -0.028652
 0.14085   -0.017288    0.002392    0.002086
-3.11E-07    0.000260   -0.029655
 0.28170   -0.017288    0.002392    0.002086
-3.11E-07   -0.000615   -0.030658
 0.42255   -0.017288    0.002392    0.002086
-3.11E-07   -0.001489   -0.031661
 0.56340   -0.017288    0.002392    0.002086
-3.11E-07   -0.002364   -0.032664

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.080311   -0.011079   -0.007823
 1.31E-06   -0.004221    0.133205
 0.14085    0.080311   -0.011079   -0.007823
 1.31E-06   -0.000941    0.137851
 0.28170    0.080311   -0.011079   -0.007823
 1.31E-06    0.002340    0.142498
 0.42255    0.080311   -0.011079   -0.007823
 1.31E-06    0.005621    0.147144
 0.56340    0.080311   -0.011079   -0.007823
 1.31E-06    0.008902    0.151791

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.005895   -0.001623    0.025140
-3.83E-06    0.014008    0.032505
 0.14085    0.005895   -0.001623    0.025140
-3.83E-06    0.003465    0.033885
 0.28170    0.005895   -0.001623    0.025140
-3.83E-06   -0.007078    0.034566
 0.42255    0.005895   -0.001623    0.025140
-3.83E-06   -0.017622    0.035246
 0.56340    0.005895   -0.001623    0.025140
-3.83E-06   -0.028165    0.035927

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.091108    0.061566   -0.127320
 1.31E-05   -0.071265   -0.349426
 0.14085   -0.091108    0.061566   -0.127320
 1.31E-05   -0.017870   -0.375246
 0.28170   -0.091108    0.061566   -0.127320
 1.31E-05    0.035526   -0.401066
 0.42255   -0.091108    0.061566   -0.127320
 1.31E-05    0.088922   -0.426886
 0.56340   -0.091108    0.061566   -0.127320
 1.31E-05    0.142318   -0.452706

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.045434   -0.114459    0.549785
-2.90E-05    0.307551    0.208275
 0.14085   -0.045434   -0.114459    0.549785
-2.90E-05    0.076980    0.256277
 0.28170   -0.045434   -0.114459    0.549785
-2.90E-05   -0.153591    0.304280
 0.42255   -0.045434   -0.114459    0.549785
-2.90E-05   -0.384162    0.352282
 0.56340   -0.045434   -0.114459    0.549785
-2.90E-05   -0.614733    0.400285

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.067624    0.063203   -0.441868
 1.87E-05   -0.247207    0.003394
 0.14085    0.067624    0.063203   -0.441868
 1.87E-05   -0.061895   -0.023112
 0.28170    0.067624    0.063203   -0.441868
 1.87E-05    0.123417   -0.049619
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      707

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.42255    0.067624    0.063203   -0.441868
 1.87E-05    0.308730   -0.076125
 0.56340    0.067624    0.063203   -0.441868
 1.87E-05    0.494042   -0.102632

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.056827   -0.113690    0.577010
-3.31E-05    0.322694    0.212828
 0.14085   -0.056827   -0.113690    0.577010
-3.31E-05    0.080705    0.260507
 0.28170   -0.056827   -0.113690    0.577010
-3.31E-05   -0.161284    0.308187
 0.42255   -0.056827   -0.113690    0.577010
-3.31E-05   -0.403273    0.355867
 0.56340   -0.056827   -0.113690    0.577010
-3.31E-05   -0.645262    0.403547

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.056827    0.113690   -0.577010
 3.31E-05   -0.322694   -0.212828
 0.14085    0.056827    0.113690   -0.577010
 3.31E-05   -0.080705   -0.260507
 0.28170    0.056827    0.113690   -0.577010
 3.31E-05    0.161284   -0.308187
 0.42255    0.056827    0.113690   -0.577010
 3.31E-05    0.403273   -0.355867
 0.56340    0.056827    0.113690   -0.577010
 3.31E-05    0.645262   -0.403547

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.080311    0.113690    0.577010
 3.31E-05    0.322694    0.212828
 0.14085    0.080311    0.113690    0.577010
 3.31E-05    0.080705    0.260507
 0.28170    0.080311    0.113690    0.577010
 3.31E-05    0.161284    0.308187
 0.42255    0.080311    0.113690    0.577010
 3.31E-05    0.403273    0.355867
 0.56340    0.080311    0.113690    0.577010
 3.31E-05    0.645262    0.403547

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.091108   -0.114459   -0.577010
-3.31E-05   -0.322694   -0.349426
 0.14085   -0.091108   -0.114459   -0.577010
-3.31E-05   -0.080705   -0.375246
 0.28170   -0.091108   -0.114459   -0.577010
-3.31E-05   -0.161284   -0.401066
 0.42255   -0.091108   -0.114459   -0.577010
-3.31E-05   -0.403273   -0.426886
 0.56340   -0.091108   -0.114459   -0.577010
-3.31E-05   -0.645262   -0.452706

ELEM      366 ================== LENGTH
=     2.978143

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43651   -0.005305    0.005335    0.003208
 2.29E-07    0.003531   -0.025528
 0.57739   -0.005305    0.005335    0.003208
 2.29E-07    0.002185   -0.027766
 0.71826   -0.005305    0.005335    0.003208
 2.29E-07    0.000839   -0.030004
 0.85913   -0.005305    0.005335    0.003208
 2.29E-07   -0.000507   -0.032242
 1.00000   -0.005305    0.005335    0.003208
 2.29E-07   -0.001853   -0.034480
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      708

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43651    0.024706   -0.024773   -0.013122
-9.40E-07   -0.014419    0.118680
 0.57739    0.024706   -0.024773   -0.013122
-9.40E-07    0.008914    0.129073
 0.71826    0.024706   -0.024773   -0.013122
-9.40E-07   -0.003409    0.139466
 0.85913    0.024706   -0.024773   -0.013122
-9.40E-07    0.002096    0.149859
 1.00000    0.024706   -0.024773   -0.013122
-9.40E-07    0.007601    0.160253

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43651    0.007786    0.007161    0.038604
-3.88E-07    0.043086    0.033155
 0.57739    0.007786    0.007161    0.038604
-3.88E-07    0.026891    0.030151
 0.71826    0.007786    0.007161    0.038604
-3.88E-07    0.010695    0.027146
 0.85913    0.007786    0.007161    0.038604
-3.88E-07   -0.005501    0.024142
 1.00000    0.007786    0.007161    0.038604
-3.88E-07   -0.021696    0.021138

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43651   -0.047635    0.022784   -0.170324
-4.73E-06   -0.190188   -0.252953
 0.57739   -0.047635    0.022784   -0.170324
-4.73E-06   -0.118731   -0.262512
 0.71826   -0.047635    0.022784   -0.170324
-4.73E-06   -0.047275   -0.272070
 0.85913   -0.047635    0.022784   -0.170324
-4.73E-06    0.024182   -0.281629
 1.00000   -0.047635    0.022784   -0.170324
-4.73E-06    0.095639   -0.291188

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43651    0.012138   -0.024889    0.614693
 5.25E-05    0.684216   -0.004318
 0.57739    0.012138   -0.024889    0.614693
 5.25E-05    0.426331    0.006123
 0.71826    0.012138   -0.024889    0.614693
 5.25E-05    0.168445    0.016565
 0.85913    0.012138   -0.024889    0.614693
 5.25E-05   -0.089441    0.027007
 1.00000    0.012138   -0.024889    0.614693
 5.25E-05   -0.347327    0.037449

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43651    0.008310    0.014382   -0.473059
-4.67E-05   -0.526226    0.130964
 0.57739    0.008310    0.014382   -0.473059
-4.67E-05   -0.327761    0.124931
 0.71826    0.008310    0.014382   -0.473059
-4.67E-05   -0.129295    0.118897
 0.85913    0.008310    0.014382   -0.473059
-4.67E-05    0.069170    0.112863
 1.00000    0.008310    0.014382   -0.473059
-4.67E-05    0.267635    0.106830

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43651    0.014619   -0.012393    0.656505
 5.23E-05    0.730833    0.003308
 0.57739    0.014619   -0.012393    0.656505
 5.23E-05    0.455406    0.008508
 0.71826    0.014619   -0.012393    0.656505
 5.23E-05    0.179979    0.013707
 0.85913    0.014619   -0.012393    0.656505
 5.23E-05   -0.095448    0.018906
 1.00000    0.014619   -0.012393    0.656505
 5.23E-05   -0.370876    0.024106
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      709

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.43651   -0.014619    0.012393   -0.656505
-5.23E-05   -0.730833   -0.003308
 0.57739   -0.014619    0.012393   -0.656505
-5.23E-05   -0.455406   -0.008508
 0.71826   -0.014619    0.012393   -0.656505
-5.23E-05   -0.179979   -0.013707
 0.85913   -0.014619    0.012393   -0.656505
-5.23E-05    0.095448   -0.018906
 1.00000   -0.014619    0.012393   -0.656505
-5.23E-05    0.370876   -0.024106

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T         M2          M3
 0.43651    0.024706    0.022784    0.656505
 5.25E-05    0.730833    0.130964
 0.57739    0.024706    0.022784    0.656505
 5.25E-05    0.455406    0.129073
 0.71826    0.024706    0.022784    0.656505
 5.25E-05    0.179979    0.139466
 0.85913    0.024706    0.022784    0.656505
 5.25E-05    0.095448    0.149859
 1.00000    0.024706    0.022784    0.656505
 5.25E-05    0.370876    0.160253

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T         M2          M3
 0.43651   -0.047635   -0.024889   -0.656505
-5.23E-05   -0.730833   -0.252953
 0.57739   -0.047635   -0.024889   -0.656505
-5.23E-05   -0.455406   -0.262512
 0.71826   -0.047635   -0.024889   -0.656505
-5.23E-05   -0.179979   -0.272070
 0.85913   -0.047635   -0.024889   -0.656505
-5.23E-05   -0.095448   -0.281629
 1.00000   -0.047635   -0.024889   -0.656505
-5.23E-05   -0.370876   -0.291188

ELEM      367 ================== LENGTH
=     2.977041

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.005185    0.005405    0.002685
-4.73E-07    0.001441   -0.034588
 0.14083   -0.005185    0.005405    0.002685
-4.73E-07    0.000315   -0.036854
 0.28166   -0.005185    0.005405    0.002685
-4.73E-07   -0.000811   -0.039119
 0.42249   -0.005185    0.005405    0.002685
-4.73E-07   -0.001937   -0.041385
 0.56332   -0.005185    0.005405    0.002685
-4.73E-07   -0.003063   -0.043651

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.024132   -0.025099   -0.010699
 2.07E-06   -0.005696    0.160752
 0.14083    0.024132   -0.025099   -0.010699
 2.07E-06   -0.001210    0.171275
 0.28166    0.024132   -0.025099   -0.010699
 2.07E-06    0.003275    0.181798
 0.42249    0.024132   -0.025099   -0.010699
 2.07E-06    0.007761    0.192321
 0.56332    0.024132   -0.025099   -0.010699
 2.07E-06    0.012247    0.202844

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000    0.010279    0.007602    0.038149
-6.00E-06    0.021268    0.019512
 0.14083    0.010279    0.007602    0.038149
-6.00E-06    0.005274    0.016325
 0.28166    0.010279    0.007602    0.038149
-6.00E-06   -0.010720    0.013137
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                      710

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T         M2          M3
 0.42249    0.010279    0.007602    0.038149
-6.00E-06   -0.026714    0.009950
 0.56332    0.010279    0.007602    0.038149
-6.00E-06   -0.042709    0.006763

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T         M2          M3
 0.00000   -0.055867    0.021517   -0.170659
 1.97E-05   -0.055562   -0.285910
 0.14083   -0.055867    0.021517   -0.170659
 1.97E-05   -0.024011   -0.294931
 0.28166   -0.055867    0.021517   -0.170659
 1.97E-05    0.047540   -0.303952
 0.42249   -0.055867    0.021517   -0.170659
 1.97E-05    0.119091   -0.312973
 0.56332   -0.055867    0.021517   -0.170659
```

```
 1.97E-05    0.190641   -0.321994

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.022015   -0.022957    0.604493
-3.74E-05   0.337927    0.030253
 0.14083    0.022015   -0.022957    0.604493
-3.74E-05   0.084488    0.039877
 0.28166    0.022015   -0.022957    0.604493
-3.74E-05   -0.168952   0.049502
 0.42249    0.022015   -0.022957    0.604493
-3.74E-05   -0.422392   0.059127
 0.56332    0.022015   -0.022957    0.604493
-3.74E-05   -0.675832   0.068752

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.004627    0.013533   -0.463969
 2.21E-05   -0.259380   0.109981
 0.14083    0.004627    0.013533   -0.463969
 2.21E-05   -0.064856   0.104307
 0.28166    0.004627    0.013533   -0.463969
 2.21E-05   0.129668    0.098633
 0.42249    0.004627    0.013533   -0.463969
 2.21E-05   0.324191    0.092960
 0.56332    0.004627    0.013533   -0.463969
 2.21E-05   0.518715    0.087286

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.027108   -0.009950    0.645327
-4.39E-05   0.360637    0.015177
 0.14083    0.027108   -0.009950    0.645327
-4.39E-05   -0.090077   0.019349
 0.28166    0.027108   -0.009950    0.645327
-4.39E-05   -0.180483   0.023520
 0.42249    0.027108   -0.009950    0.645327
-4.39E-05   -0.451043   0.027692
 0.56332    0.027108   -0.009950    0.645327
-4.39E-05   -0.721603   0.031864

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.027108    0.009950   -0.645327
 4.39E-05  -0.360637   -0.015177
 0.14083   -0.027108    0.009950   -0.645327
 4.39E-05  -0.090077   -0.019349
 0.28166   -0.027108    0.009950   -0.645327
 4.39E-05   0.180483   -0.023520
 0.42249   -0.027108    0.009950   -0.645327
 4.39E-05   0.451043   -0.027692
 0.56332   -0.027108    0.009950   -0.645327
 4.39E-05   0.721603   -0.031864

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.027108    0.021517    0.645327
 4.39E-05   0.360637    0.160752
Program  SAP2000    Nonlinear    Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       711

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.14083    0.027108    0.021517    0.645327
 4.39E-05   0.090077    0.171275
 0.28166    0.027108    0.021517    0.645327
 4.39E-05   0.180483    0.181798
 0.42249    0.027108    0.021517    0.645327
 4.39E-05   0.451043    0.192321
 0.56332    0.027108    0.021517    0.645327
 4.39E-05   0.721603    0.202844

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.055867   -0.025099   -0.645327
-4.39E-05  -0.360637   -0.285910
 0.14083   -0.055867   -0.025099   -0.645327
-4.39E-05  -0.090077   -0.294931
 0.28166   -0.055867   -0.025099   -0.645327
-4.39E-05  -0.180483   -0.303952
 0.42249   -0.055867   -0.025099   -0.645327
-4.39E-05  -0.451043   -0.312973
 0.56332   -0.055867   -0.025099   -0.645327
-4.39E-05  -0.721603   -0.321994

ELEM      368 ================== LENGTH
=    2.977720

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43658    0.020416    0.008477    0.003672
 4.38E-07   0.004024   -0.036975
 0.57743    0.020416    0.008477    0.003672
 4.38E-07   0.002484   -0.040531
 0.71829    0.020416    0.008477    0.003672
 4.38E-07   0.000944   -0.044086
 0.85914    0.020416    0.008477    0.003672
 4.38E-07   -0.000596   -0.047642
 1.00000    0.020416    0.008477    0.003672
 4.38E-07   -0.002136   -0.051197

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43658   -0.094810   -0.039382   -0.015339
-1.91E-06  -0.016782    0.171836
 0.57743   -0.094810   -0.039382   -0.015339
-1.91E-06  -0.010348    0.188354
 0.71829   -0.094810   -0.039382   -0.015339
-1.91E-06  -0.003915    0.204872
 0.85914   -0.094810   -0.039382   -0.015339
-1.91E-06   0.002519    0.221390
 1.00000   -0.094810   -0.039382   -0.015339
-1.91E-06   0.008952    0.237908

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43658    0.030157   -0.006047    0.048281
-7.80E-07   0.053741    0.004781
 0.57743    0.030157   -0.006047    0.048281
-7.80E-07   0.033491    0.007318
 0.71829    0.030157   -0.006047    0.048281
-7.80E-07   0.013240    0.009854
 0.85914    0.030157   -0.006047    0.048281
-7.80E-07   -0.007010   0.012390
 1.00000    0.030157   -0.006047    0.048281
-7.80E-07   -0.027261   0.014926

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43658   -0.015459    0.061457   -0.202535
-2.53E-06  -0.225675   -0.206157
 0.57743   -0.015459    0.061457   -0.202535
-2.53E-06  -0.140726   -0.231934
 0.71829   -0.015459    0.061457   -0.202535
-2.53E-06  -0.055776   -0.257710
 0.85914   -0.015459    0.061457   -0.202535
-2.53E-06   0.029173   -0.283487
 1.00000   -0.015459    0.061457   -0.202535
-2.53E-06   0.114122   -0.309264
Program  SAP2000    Nonlinear    Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       712

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43658    0.205402    0.027278    0.655337
 5.26E-05   0.728431   -0.102543
 0.57743    0.205402    0.027278    0.655337
 5.26E-05   0.453563   -0.113984
 0.71829    0.205402    0.027278    0.655337
 5.26E-05   0.178695   -0.125425
 0.85914    0.205402    0.027278    0.655337
 5.26E-05   -0.096173   -0.136867
 1.00000    0.205402    0.027278    0.655337
 5.26E-05   -0.371041   -0.148308

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43658   -0.145705   -0.051783   -0.489416
-4.78E-05  -0.543740    0.169058
 0.57743   -0.145705   -0.051783   -0.489416
-4.78E-05  -0.338464    0.190777
 0.71829   -0.145705   -0.051783   -0.489416
-4.78E-05  -0.133188    0.212496
 0.85914   -0.145705   -0.051783   -0.489416
-4.78E-05   0.072087    0.234216
 1.00000   -0.145705   -0.051783   -0.489416
-4.78E-05   0.277363    0.255935

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43658    0.255974    0.029708    0.707290
 5.22E-05   0.786197   -0.134737
 0.57743    0.255974    0.029708    0.707290
 5.22E-05   0.489538   -0.147198
 0.71829    0.255974    0.029708    0.707290
 5.22E-05   0.192879   -0.159658
 0.85914    0.255974    0.029708    0.707290
 5.22E-05   -0.103779   -0.172118
 1.00000    0.255974    0.029708    0.707290
 5.22E-05   -0.400438   -0.184579

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43658   -0.255974   -0.029708   -0.707290
-5.22E-05  -0.786197    0.134737
 0.57743   -0.255974   -0.029708   -0.707290
-5.22E-05  -0.489538    0.147198
 0.71829   -0.255974   -0.029708   -0.707290
-5.22E-05  -0.192879    0.159658
 0.85914   -0.255974   -0.029708   -0.707290
-5.22E-05   0.103779    0.172118
 1.00000   -0.255974   -0.029708   -0.707290
-5.22E-05   0.400438    0.184579

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43658    0.255974    0.061457    0.707290
 5.26E-05   0.786197    0.171836
 0.57743    0.255974    0.061457    0.707290
 5.26E-05   0.489538    0.190777
 0.71829    0.255974    0.061457    0.707290
 5.26E-05   0.192879    0.212496
 0.85914    0.255974    0.061457    0.707290
 5.26E-05   0.103779    0.234216
 1.00000    0.255974    0.061457    0.707290
 5.26E-05   0.400438    0.255935

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43658   -0.255974   -0.051783   -0.707290
-5.22E-05  -0.786197   -0.206157
 0.57743   -0.255974   -0.051783   -0.707290
-5.22E-05  -0.489538   -0.231934
 0.71829   -0.255974   -0.051783   -0.707290
-5.22E-05  -0.192879   -0.257710
 0.85914   -0.255974   -0.051783   -0.707290
-5.22E-05  -0.103779   -0.283487
 1.00000   -0.255974   -0.051783   -0.707290
-5.22E-05  -0.400438   -0.309264
Program  SAP2000    Nonlinear    Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       713

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      369 ================== LENGTH
=    2.976842

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.020431    0.008877    0.002945
-7.16E-07   0.001564   -0.051275
 0.14082    0.020431    0.008877    0.002945
-7.16E-07   0.000330   -0.054997
 0.28165    0.020431    0.008877    0.002945
-7.16E-07   -0.000905   -0.058718
 0.42247    0.020431    0.008877    0.002945
-7.16E-07   -0.002139   -0.062439
 0.56330    0.020431    0.008877    0.002945
-7.16E-07   -0.003374   -0.066161

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.094890   -0.041246   -0.011972
 3.21E-06  -0.006306    0.238271
 0.14082   -0.094890   -0.041246   -0.011972
 3.21E-06  -0.001287    0.255561
 0.28165   -0.094890   -0.041246   -0.011972
 3.21E-06   0.003732    0.272852
 0.42247   -0.094890   -0.041246   -0.011972
 3.21E-06   0.008750    0.290142
 0.56330   -0.094890   -0.041246   -0.011972
 3.21E-06   0.013769    0.307433

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.031672    2.23E-06    0.047332
-8.05E-06   0.026433    0.013772
 0.14082    0.031672    2.23E-06    0.047332
-8.05E-06   0.006591    0.013771
 0.28165    0.031672    2.23E-06    0.047332
-8.05E-06   -0.013251   0.013770
 0.42247    0.031672    2.23E-06    0.047332
-8.05E-06   -0.033093   0.013769
 0.56330    0.031672    2.23E-06    0.047332
-8.05E-06   -0.052936   0.013768

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.020829    0.041694   -0.201927
 2.55E-05  -0.113262   -0.323023
 0.14082   -0.020829    0.041694   -0.201927
 2.55E-05  -0.028613   -0.323002
 0.28165   -0.020829    0.041694   -0.201927
 2.55E-05   0.056037   -0.340481
 0.42247   -0.020829    0.041694   -0.201927
 2.55E-05   0.140687   -0.357959
 0.56330   -0.020829    0.041694   -0.201927
 2.55E-05   0.225337   -0.375438

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.212186    0.054908    0.641828
-4.54E-05   0.359051   -0.153423
 0.14082    0.212186    0.054908    0.641828
-4.54E-05   0.089990   -0.176441
 0.28165    0.212186    0.054908    0.641828
-4.54E-05   -0.179071   -0.199459
 0.42247    0.212186    0.054908    0.641828
-4.54E-05   -0.448132   -0.222477
 0.56330    0.212186    0.054908    0.641828
-4.54E-05   -0.717193   -0.245495

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.148570   -0.064237   -0.478207
 2.54E-05  -0.267480    0.258178
 0.14082   -0.148570   -0.064237   -0.478207
 2.54E-05  -0.067011    0.285107
 0.28165   -0.148570   -0.064237   -0.478207
 2.54E-05   0.133459    0.312036
Program  SAP2000    Nonlinear    Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       714

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.42247   -0.148570   -0.064237   -0.478207
 2.54E-05   0.333928    0.338964
 0.56330   -0.148570   -0.064237   -0.478207
 2.54E-05   0.534397    0.365893

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.264289    0.063788    0.692105
-5.41E-05   0.387048   -0.190926
 0.14082    0.264289    0.063788    0.692105
-5.41E-05   0.096910    0.217666
 0.28165    0.264289    0.063788    0.692105
-5.41E-05   -0.193227   0.244407
 0.42247    0.264289    0.063788    0.692105
-5.41E-05   -0.483365   0.271147
 0.56330    0.264289    0.063788    0.692105
-5.41E-05   -0.773503   0.297888

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.264289   -0.063788   -0.692105
 5.41E-05  -0.387048    0.190926
 0.14082   -0.264289   -0.063788   -0.692105
 5.41E-05  -0.096910    0.217666
 0.28165   -0.264289   -0.063788   -0.692105
 5.41E-05   0.193227    0.244407
 0.42247   -0.264289   -0.063788   -0.692105
 5.41E-05   0.483365    0.271147
 0.56330   -0.264289   -0.063788   -0.692105
 5.41E-05   0.773503    0.297888

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.264289    0.063788    0.692105
 5.41E-05   0.387048    0.258178
 0.14082    0.264289    0.063788    0.692105
 5.41E-05   0.096910    0.285107
 0.28165    0.264289    0.063788    0.692105
 5.41E-05   0.193227    0.312036
 0.42247    0.264289    0.063788    0.692105
 5.41E-05   0.483365    0.338964
 0.56330    0.264289    0.063788    0.692105
 5.41E-05   0.773503    0.365893

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.264289   -0.064237   -0.692105
-5.41E-05  -0.387048   -0.305523
 0.14082   -0.264289   -0.064237   -0.692105
-5.41E-05  -0.096910   -0.323002
 0.28165   -0.264289   -0.064237   -0.692105
-5.41E-05  -0.193227   -0.340481
 0.42247   -0.264289   -0.064237   -0.692105
-5.41E-05  -0.483365   -0.357959
 0.56330   -0.264289   -0.064237   -0.692105
-5.41E-05  -0.773503   -0.375438

ELEM      370 ================== LENGTH
=    2.976491

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43676    0.037240   -0.001858    0.003417
 5.65E-07   0.003777   -0.088320
 0.57757    0.037240   -0.001858    0.003417
 5.65E-07   0.002345   -0.087542
 0.71838    0.037240   -0.001858    0.003417
 5.65E-07   0.000912   -0.086763
 0.85919    0.037240   -0.001858    0.003417
 5.65E-07   -0.000520   -0.085984
 1.00000    0.037240   -0.001858    0.003417
 5.65E-07   -0.001952   -0.085206
Program  SAP2000    Nonlinear    Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       715

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43676   -0.173088    0.008639   -0.014234
-2.50E-06  -0.015704    0.410408
 0.57757   -0.173088    0.008639   -0.014234
-2.50E-06  -0.009739    0.406787
 0.71838   -0.173088    0.008639   -0.014234
-2.50E-06  -0.003773    0.403166
 0.85919   -0.173088    0.008639   -0.014234
-2.50E-06   0.002193    0.399545
 1.00000   -0.173088    0.008639   -0.014234
-2.50E-06   0.008158    0.395925

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43676    0.051979   -0.042366    0.053233
-1.47E-06   0.059828   -0.073489
 0.57757    0.051979   -0.042366    0.053233
-1.47E-06   0.037517   -0.055733
 0.71838    0.051979   -0.042366    0.053233
-1.47E-06   0.015206   -0.037976
 0.85919    0.051979   -0.042366    0.053233
-1.47E-06   -0.007105  -0.020220
 1.00000    0.051979   -0.042366    0.053233
-1.47E-06   -0.029416  -0.002463

LOAD      -P3 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43676   -0.022834    0.113194   -0.220209
 1.19E-07  -0.247693   -0.177930
 0.57757   -0.022834    0.113194   -0.220209
 1.19E-07   -0.155398   -0.225373
 0.71838   -0.022834    0.113194   -0.220209
 1.19E-07   -0.063104   -0.272815
 0.85919   -0.022834    0.113194   -0.220209
 1.19E-07   0.029191    -0.320257
 1.00000   -0.022834    0.113194   -0.220209
 1.19E-07   0.121486    -0.367699

LOAD      -P4 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43676    0.388942    0.023090    0.665078
 5.29E-05   0.746133   -0.411919
 0.57757    0.388942    0.023090    0.665078
 5.29E-05   0.467384   -0.421596
 0.71838    0.388942    0.023090    0.665078
 5.29E-05   0.188634   -0.431274
 0.85919    0.388942    0.023090    0.665078
 5.29E-05   -0.090115   -0.440951
 1.00000    0.388942    0.023090    0.665078
 5.29E-05   -0.368865   -0.450629

LOAD      -P5 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43676   -0.282238   -0.100700   -0.487285
-4.96E-05  -0.546341    0.341250
 0.57757   -0.282238   -0.100700   -0.487285
-4.96E-05  -0.342109    0.383456
 0.71838   -0.282238   -0.100700   -0.487285
-4.96E-05  -0.137877    0.425662
 0.85919   -0.282238   -0.100700   -0.487285
-4.96E-05   0.066356    0.467867
 1.00000   -0.282238   -0.100700   -0.487285
-4.96E-05   0.270588    0.510073

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43676    0.478161   -0.021133    0.721728
 5.20E-05   0.809739   -0.573728
 0.57757    0.478161   -0.021133    0.721728
 5.20E-05   0.507246   -0.564871
 0.71838    0.478161   -0.021133    0.721728
 5.20E-05   0.204753   -0.556013
 0.85919    0.478161   -0.021133    0.721728
 5.20E-05   -0.097740   -0.547156
 1.00000    0.478161   -0.021133    0.721728
 5.20E-05   -0.400232   -0.538298
Program  SAP2000    Nonlinear    Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       716

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.43676   -0.478161    0.021133   -0.721728
-5.20E-05  -0.809739    0.573728
 0.57757   -0.478161    0.021133   -0.721728
-5.20E-05  -0.507246    0.564871
 0.71838   -0.478161    0.021133   -0.721728
-5.20E-05  -0.204753    0.556013
 0.85919   -0.478161    0.021133   -0.721728
-5.20E-05   0.097740    0.547156
 1.00000   -0.478161    0.021133   -0.721728
-5.20E-05   0.400232    0.538298

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.43676    0.478161    0.113194    0.721728
 5.29E-05   0.809739    0.573728
 0.57757    0.478161    0.113194    0.721728
 5.29E-05   0.507246    0.564871
 0.71838    0.478161    0.113194    0.721728
 5.29E-05   0.204753    0.556013
 0.85919    0.478161    0.113194    0.721728
 5.29E-05   0.097740    0.547156
 1.00000    0.478161    0.113194    0.721728
 5.29E-05   0.400232    0.538298

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.43676   -0.478161   -0.100700   -0.721728
-5.20E-05  -0.809739   -0.573728
 0.57757   -0.478161   -0.100700   -0.721728
-5.20E-05  -0.507246   -0.564871
 0.71838   -0.478161   -0.100700   -0.721728
-5.20E-05  -0.204753   -0.556013
 0.85919   -0.478161   -0.100700   -0.721728
-5.20E-05   0.097740   -0.547156
 1.00000   -0.478161   -0.100700   -0.721728
-5.20E-05   0.400232   -0.538298

ELEM      371 ================== LENGTH
=    2.977482

LOAD      -A1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.037108   -0.002239    0.002944
-1.11E-06   0.001549   -0.085267
 0.14085    0.037108   -0.002239    0.002944
-1.11E-06   0.000314   -0.084328
 0.28169    0.037108   -0.002239    0.002944
-1.11E-06   -0.000920   -0.083389
 0.42254    0.037108   -0.002239    0.002944
-1.11E-06   -0.002155   -0.082450
 0.56339    0.037108   -0.002239    0.002944
-1.11E-06   -0.003390   -0.081511

LOAD      -P1 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.172539    0.010414   -0.012052
 5.04E-06  -0.006300    0.396208
 0.14085   -0.172539    0.010414   -0.012052
 5.04E-06  -0.001246    0.391841
 0.28169   -0.172539    0.010414   -0.012052
 5.04E-06   0.003808    0.387474
 0.42254   -0.172539    0.010414   -0.012052
 5.04E-06   0.008862    0.383107
 0.56339   -0.172539    0.010414   -0.012052
 5.04E-06   0.013916    0.378740

LOAD      -P2 ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.051523   -0.051668    0.052063
-9.69E-06   0.028425   -0.003334
 0.14085    0.051523   -0.051668    0.052063
-9.69E-06   0.006591    0.018334
 0.28169    0.051523   -0.051668    0.052063
-9.69E-06   -0.015243   0.040002
Program  SAP2000    Nonlinear    Version   7.42
                File:하행S11~S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       717

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.42254    0.051523   -0.051668    0.052063
-9.69E-06  -0.037076    0.061670
 0.56339    0.051523   -0.051668    0.052063
-9.69E-06  -0.058910    0.083338

LOAD      -P3 ------------------
```

```
REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.020131    0.145004   -0.217385
  2.94E-05   -0.119105   -0.364884
0.14085   -0.020131    0.145004   -0.217385
  2.94E-05   -0.027940   -0.425694
0.28169   -0.020131    0.145004   -0.217385
  2.94E-05    0.063225   -0.486505
0.42254   -0.020131    0.145004   -0.217385
  2.94E-05    0.154389   -0.547315
0.56339   -0.020131    0.145004   -0.217385
  2.94E-05    0.245554   -0.608125

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.371004   -0.021199    0.649015
 -5.28E-05    0.355269   -0.454522
0.14085    0.371004   -0.021199    0.649015
 -5.28E-05    0.083091   -0.445632
0.28169    0.371004   -0.021199    0.649015
 -5.28E-05   -0.189086   -0.436741
0.42254    0.371004   -0.021199    0.649015
 -5.28E-05   -0.461264   -0.427851
0.56339    0.371004   -0.021199    0.649015
 -5.28E-05   -0.733442   -0.418960

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.266964   -0.080312   -0.474585
  2.91E-05   -0.259837    0.511798
0.14085   -0.266964   -0.080312   -0.474585
  2.91E-05   -0.060810    0.545479
0.28169   -0.266964   -0.080312   -0.474585
  2.91E-05    0.138217    0.579159
0.42254   -0.266964   -0.080312   -0.474585
  2.91E-05    0.337244    0.612840
0.56339   -0.266964   -0.080312   -0.474585
  2.91E-05    0.536271    0.646520

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.459635   -0.075106    0.704022
 -6.36E-05    0.385242   -0.543123
0.14085    0.459635   -0.075106    0.704022
 -6.36E-05    0.089996   -0.511626
0.28169    0.459635   -0.075106    0.704022
 -6.36E-05   -0.205250   -0.480128
0.42254    0.459635   -0.075106    0.704022
 -6.36E-05   -0.500496   -0.448631
0.56339    0.459635   -0.075106    0.704022
 -6.36E-05   -0.795742   -0.417134

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.459635    0.075106   -0.704022
  6.36E-05   -0.385242    0.543123
0.14085   -0.459635    0.075106   -0.704022
  6.36E-05   -0.089996    0.511626
0.28169   -0.459635    0.075106   -0.704022
  6.36E-05    0.205250    0.480128
0.42254   -0.459635    0.075106   -0.704022
  6.36E-05    0.500496    0.448631
0.56339   -0.459635    0.075106   -0.704022
  6.36E-05    0.795742    0.417134

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.459635    0.145004    0.704022
6.36E-05    0.385242    0.543123
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<          UNEQUAL          SETTLEMENT          >
                     718

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.14085    0.459635    0.145004    0.704022
6.36E-05    0.089996    0.545479
0.28169    0.459635    0.145004    0.704022
6.36E-05    0.205250    0.579159
0.42254    0.459635    0.145004    0.704022
6.36E-05    0.500496    0.612840
0.56339    0.459635    0.145004    0.704022
6.36E-05    0.795742    0.646520

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.459635   -0.080312   -0.704022
 -6.36E-05   -0.385242   -0.543123
0.14085   -0.459635   -0.080312   -0.704022
 -6.36E-05   -0.089996   -0.511626
0.28169   -0.459635   -0.080312   -0.704022
 -6.36E-05   -0.205250   -0.486505
0.42254   -0.459635   -0.080312   -0.704022
 -6.36E-05   -0.500496   -0.547315
0.56339   -0.459635   -0.080312   -0.704022
 -6.36E-05   -0.795742   -0.608125

ELEM       372 ================== LENGTH
=     2.977322

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663   -0.002664   -0.076244    0.003646
  7.01E-07    0.003548   -0.275717
0.57748   -0.002664   -0.076244    0.003646
  7.01E-07    0.002019   -0.243745
0.71832   -0.002664   -0.076244    0.003646
  7.01E-07    0.000490   -0.211774
0.85916   -0.002664   -0.076244    0.003646
  7.01E-07   -0.001039   -0.179802
1.00000   -0.002664   -0.076244    0.003646
  7.01E-07   -0.002567   -0.147831

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663    0.010566    0.354334   -0.014799
 -3.18E-06   -0.014380    1.281251
0.57748    0.010566    0.354334   -0.014799
 -3.18E-06   -0.008175    1.132668
0.71832    0.010566    0.354334   -0.014799
 -3.18E-06   -0.001969    0.984085
0.85916    0.010566    0.354334   -0.014799
 -3.18E-06    0.004236    0.835502
1.00000    0.010566    0.354334   -0.014799
 -3.18E-06    0.010442    0.686918

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663   -0.026952   -0.212326    0.073801
 -3.47E-06    0.072563   -0.383301
0.57748   -0.026952   -0.212326    0.073801
 -3.47E-06    0.041616   -0.294266
0.71832   -0.026952   -0.212326    0.073801
 -3.47E-06    0.010669   -0.205231
0.85916   -0.026952   -0.212326    0.073801
 -3.47E-06   -0.020278   -0.116197
1.00000   -0.026952   -0.212326    0.073801
 -3.47E-06   -0.051225   -0.027162

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663    0.111838    0.313368   -0.306996
  8.89E-06   -0.301986   -0.005308
0.57748    0.111838    0.313368   -0.306996
  8.89E-06   -0.173254   -0.136712
0.71832    0.111838    0.313368   -0.306996
  8.89E-06   -0.044521   -0.268117
0.85916    0.111838    0.313368   -0.306996
  8.89E-06    0.084212   -0.399522
1.00000    0.111838    0.313368   -0.306996
  8.89E-06    0.212944   -0.530926
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<          UNEQUAL          SETTLEMENT          >
                     719

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663   -0.395597   -0.466633    0.888152
  3.52E-05    0.872739   -1.657777
0.57748   -0.395597   -0.466633    0.888152
  3.52E-05    0.500309   -1.462104
0.71832   -0.395597   -0.466633    0.888152
  3.52E-05    0.127880   -1.266430
0.85916   -0.395597   -0.466633    0.888152
  3.52E-05   -0.244549   -1.070757
1.00000   -0.395597   -0.466633    0.888152
  3.52E-05   -0.616979   -0.875083

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663    0.302809    0.087501   -0.643805
 -3.82E-05   -0.632483    1.040852
0.57748    0.302809    0.087501   -0.643805
 -3.82E-05   -0.362516    1.004160
0.71832    0.302809    0.087501   -0.643805
 -3.82E-05   -0.092549    0.967468
0.85916    0.302809    0.087501   -0.643805
 -3.82E-05    0.177418    0.930776
1.00000    0.302809    0.087501   -0.643805
 -3.82E-05    0.447384    0.894084

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663   -0.425213   -0.755203    0.965599
  3.24E-05    0.948850   -2.316795
0.57748   -0.425213   -0.755203    0.965599
  3.24E-05    0.543945   -2.000115
0.71832   -0.425213   -0.755203    0.965599
  3.24E-05    0.139039   -1.683435
0.85916   -0.425213   -0.755203    0.965599
  3.24E-05   -0.265866   -1.366756
1.00000   -0.425213   -0.755203    0.965599
  3.24E-05   -0.670771   -1.050076

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663    0.425213    0.755203   -0.965599
 -3.24E-05   -0.948850    2.316795
0.57748    0.425213    0.755203   -0.965599
 -3.24E-05   -0.543945    2.000115
0.71832    0.425213    0.755203   -0.965599
 -3.24E-05   -0.139039    1.683435
0.85916    0.425213    0.755203   -0.965599
 -3.24E-05    0.265866    1.366756
1.00000    0.425213    0.755203   -0.965599
 -3.24E-05    0.670771    1.050076

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43663    0.425213    0.755203    0.965599
3.52E-05    0.948850    2.316795
0.57748    0.425213    0.755203    0.965599
3.52E-05    0.543945    2.000115
0.71832    0.425213    0.755203    0.965599
3.52E-05    0.139039    1.683435
0.85916    0.425213    0.755203    0.965599
3.52E-05    0.265866    1.366756
1.00000    0.425213    0.755203    0.965599
3.52E-05    0.670771    1.050076

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43663   -0.425213   -0.755203   -0.965599
 -3.82E-05   -0.948850   -2.316795
0.57748   -0.425213   -0.755203   -0.965599
 -3.82E-05   -0.543945   -2.000115
0.71832   -0.425213   -0.755203   -0.965599
 -3.82E-05   -0.139039   -1.683435
0.85916   -0.425213   -0.755203   -0.965599
 -3.82E-05    0.265866   -1.366756
1.00000   -0.425213   -0.755203   -0.965599
 -3.82E-05   -0.670771   -1.050076
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<          UNEQUAL          SETTLEMENT          >
                     720

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       373 ================== LENGTH
=     2.977322

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.002319   -0.078749    0.003968
 -1.92E-06    0.002719   -0.147846
0.14084    0.002315   -0.078749    0.003968
 -1.92E-06    0.001055   -0.114824
0.28168    0.002315   -0.078749    0.003968
 -1.92E-06   -0.000609   -0.081802
0.42252    0.002315   -0.078749    0.003968
 -1.92E-06   -0.002273   -0.048780
0.56337    0.002315   -0.078749    0.003968
 -1.92E-06   -0.003936   -0.015758

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.009791    0.365994   -0.016306
  8.84E-06   -0.011159    0.686989
0.14084   -0.009791    0.365994   -0.016306
  8.84E-06   -0.004321    0.533517
0.28168   -0.009791    0.365994   -0.016306
  8.84E-06    0.002517    0.380044
0.42252   -0.009791    0.365994   -0.016306
  8.84E-06    0.009355    0.226572
0.56337   -0.009791    0.365994   -0.016306
  8.84E-06    0.016192    0.073099

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.070367   -0.221387    0.073497
 -9.82E-06    0.050800   -0.027303
0.14084    0.070367   -0.221387    0.073497
 -9.82E-06    0.019981    0.065531
0.28168    0.070367   -0.221387    0.073497
 -9.82E-06   -0.010838    0.158365
0.42252    0.070367   -0.221387    0.073497
 -9.82E-06   -0.041658    0.251199
0.56337    0.070367   -0.221387    0.073497
 -9.82E-06   -0.072477    0.344034

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43663   -0.290789    0.333026   -0.303757
  2.46E-05   -0.210121   -0.530497
0.14084   -0.290789    0.333026   -0.303757
  2.46E-05   -0.082746   -0.670144
0.28168   -0.290789    0.333026   -0.303757
  2.46E-05    0.044628   -0.809792
0.42252   -0.290789    0.333026   -0.303757
  2.46E-05    0.172003   -0.949440
0.56337   -0.290789    0.333026   -0.303757
  2.46E-05    0.299378   -1.089088

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.761785   -0.504306    0.879384
 -4.24E-05    0.608150   -0.875706
0.14084    0.761785   -0.504306    0.879384
 -4.24E-05    0.239397   -0.664235
0.28168    0.761785   -0.504306    0.879384
 -4.24E-05   -0.129355   -0.452764
0.42252    0.761785   -0.504306    0.879384
 -4.24E-05   -0.498108   -0.241293
0.56337    0.761785   -0.504306    0.879384
 -4.24E-05   -0.866861   -0.029822

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.533888    0.105423   -0.636785
  2.06E-05   -0.440390    0.894363
0.14084   -0.533888    0.105423   -0.636785
  2.06E-05   -0.173366    0.850156
0.28168   -0.533888    0.105423   -0.636785
  2.06E-05    0.093657    0.805949
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<          UNEQUAL          SETTLEMENT          >
                     721

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
        T         M2          M3
0.42252   -0.533888    0.105423   -0.636785
  2.06E-05    0.360681    0.761742
0.56337   -0.533888    0.105423   -0.636785
  2.06E-05    0.627704    0.717535

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.834467   -0.804443    0.956849
 -5.41E-05    0.661669   -1.050856
0.14084    0.834467   -0.804443    0.956849
 -5.41E-05    0.260434   -0.713528
0.28168    0.834467   -0.804443    0.956849
 -5.41E-05   -0.140802   -0.376201
0.42252    0.834467   -0.804443    0.956849
 -5.41E-05   -0.542038   -0.038874
0.56337    0.834467   -0.804443    0.956849
 -5.41E-05   -0.943274    0.298454

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.834467    0.804443   -0.956849
  5.41E-05   -0.661669    1.050856
0.14084   -0.834467    0.804443   -0.956849
  5.41E-05   -0.260434    0.713528
0.28168   -0.834467    0.804443   -0.956849
  5.41E-05    0.140802    0.376201
0.42252   -0.834467    0.804443   -0.956849
  5.41E-05    0.542038    0.038874
0.56337   -0.834467    0.804443   -0.956849
  5.41E-05    0.943274   -0.298454

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.834467    0.804443    0.956849
5.41E-05    0.661669    1.050856
0.14084    0.834467    0.804443    0.956849
5.41E-05    0.542038    0.805949
0.42252    0.834467    0.804443    0.956849
5.41E-05    0.542038    0.761742
0.56337    0.834467    0.804443    0.956849
5.41E-05    0.943274    0.717535

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.834467   -0.804443   -0.956849
 -5.41E-05   -0.661669   -1.050856
0.14084   -0.834467   -0.804443   -0.956849
 -5.41E-05   -0.260434   -0.713528
0.28168   -0.834467   -0.804443   -0.956849
 -5.41E-05   -0.140802   -0.809792
0.42252   -0.834467   -0.804443   -0.956849
 -5.41E-05   -0.542038   -0.949440
0.56337   -0.834467   -0.804443   -0.956849
 -5.41E-05   -0.943274   -1.089088

ELEM       374 ================== LENGTH
=     2.977946

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43654   -0.022286   -0.154375    0.003065
  7.48E-07    0.003169   -0.432053
0.57741   -0.022286   -0.154375    0.003065
  7.48E-07    0.001884   -0.367295
0.71827   -0.022286   -0.154375    0.003065
  7.48E-07    0.000598   -0.302537
0.85914   -0.022286   -0.154375    0.003065
  7.48E-07   -0.000688   -0.237778
1.00000   -0.022286   -0.154375    0.003065
  7.48E-07   -0.001973   -0.173020
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<          UNEQUAL          SETTLEMENT          >
                     722

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43654    0.104506    0.717444   -0.012363
 -3.38E-06   -0.012771    2.007758
0.57741    0.104506    0.717444   -0.012363
 -3.38E-06   -0.007585    1.706800
0.71827    0.104506    0.717444   -0.012363
 -3.38E-06   -0.002399    1.405842
0.85914    0.104506    0.717444   -0.012363
 -3.38E-06    0.002788    1.104884
1.00000    0.104506    0.717444   -0.012363
 -3.38E-06    0.007974    0.803926

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43654    0.051001   -0.428993    0.064958
 -2.77E-06    0.067607   -0.746239
0.57741    0.051001   -0.428993    0.064958
 -2.77E-06    0.040358   -0.566282
0.71827    0.051001   -0.428993    0.064958
 -2.77E-06    0.013109   -0.386326
0.85914    0.051001   -0.428993    0.064958
 -2.77E-06   -0.014140   -0.206369
1.00000    0.051001   -0.428993    0.064958
 -2.77E-06   -0.041389   -0.026412

LOAD      -P3 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43654   -0.338188    0.642132   -0.270704
  6.16E-06   -0.281837    0.437073
0.57741   -0.338188    0.642132   -0.270704
  6.16E-06   -0.168281    0.167708
0.71827   -0.338188    0.642132   -0.270704
  6.16E-06   -0.054724   -0.101658
0.85914   -0.338188    0.642132   -0.270704
  6.16E-06    0.058833   -0.371023
1.00000   -0.338188    0.642132   -0.270704
  6.16E-06    0.172389   -0.640389

LOAD      -P4 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43654    0.646933   -1.027587    0.779896
  4.27E-05    0.811442   -2.698518
0.57741    0.646933   -1.027587    0.779896
  4.27E-05    0.484286   -2.267459
0.71827    0.646933   -1.027587    0.779896
  4.27E-05    0.157130   -1.836400
0.85914    0.646933   -1.027587    0.779896
  4.27E-05   -0.170026   -1.405341
1.00000    0.646933   -1.027587    0.779896
  4.27E-05   -0.497182   -0.974282

LOAD      -P5 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43654   -0.441965    0.251380   -0.564852
 -4.35E-05   -0.587610    1.431979
0.57741   -0.441965    0.251380   -0.564852
 -4.35E-05   -0.350662    1.326529
0.71827   -0.441965    0.251380   -0.564852
 -4.35E-05   -0.113714    1.221078
0.85914   -0.441965    0.251380   -0.564852
 -4.35E-05    0.123233    1.115628
1.00000   -0.441965    0.251380   -0.564852
 -4.35E-05    0.360181    1.010178

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43654    0.675648   -1.610955    0.847919
  4.07E-05    0.882218   -3.876810
0.57741    0.675648   -1.610955    0.847919
  4.07E-05    0.526528   -3.201036
0.71827    0.675648   -1.610955    0.847919
  4.07E-05    0.170837   -2.525263
0.85914    0.675648   -1.610955    0.847919
  4.07E-05   -0.184854   -1.849489
1.00000    0.675648   -1.610955    0.847919
  4.07E-05   -0.540544   -1.173715
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<          UNEQUAL          SETTLEMENT          >
                     723

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
        T         M2          M3
0.43654   -0.675648    1.610955   -0.847919
 -4.07E-05   -0.882218    3.876810
0.57741   -0.675648    1.610955   -0.847919
 -4.07E-05   -0.526528    3.201036
0.71827   -0.675648    1.610955   -0.847919
 -4.07E-05   -0.170837    2.525263
0.85914   -0.675648    1.610955   -0.847919
 -4.07E-05    0.184854    1.849489
1.00000   -0.675648    1.610955   -0.847919
 -4.07E-05    0.540544    1.173715

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
        T         M2          M3
0.43654    0.675648    1.610955    0.847919
4.27E-05    0.882218    3.876810
0.57741    0.675648    1.610955    0.847919
4.27E-05    0.526528    3.201036
0.71827    0.675648    1.610955    0.847919
4.27E-05    0.170837    2.525263
0.85914    0.675648    1.610955    0.847919
4.27E-05    0.184854    1.849489
1.00000    0.675648    1.610955    0.847919
4.27E-05    0.540544    1.173715

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
        T         M2          M3
0.43654   -0.675648   -1.610955   -0.847919
 -4.35E-05   -0.882218   -3.876810
0.57741   -0.675648   -1.610955   -0.847919
 -4.35E-05   -0.526528   -3.201036
0.71827   -0.675648   -1.610955   -0.847919
 -4.35E-05   -0.170837   -2.525263
0.85914   -0.675648   -1.610955   -0.847919
 -4.35E-05   -0.184854   -1.849489
1.00000   -0.675648   -1.610955   -0.847919
 -4.35E-05   -0.540544   -1.173715

ELEM       375 ================== LENGTH
=     2.976830

LOAD      -A1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.027940   -0.150634    0.003505
 -2.15E-06    0.002203   -0.173022
0.14082   -0.027940   -0.150634    0.003505
 -2.15E-06    0.000734   -0.109875
0.28165   -0.027940   -0.150634    0.003505
 -2.15E-06   -0.000735   -0.046728
0.42247   -0.027940   -0.150634    0.003505
 -2.15E-06   -0.002205    0.016419
0.56329   -0.027940   -0.150634    0.003505
 -2.15E-06   -0.003674    0.079565

LOAD      -P1 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000    0.127676    0.700019   -0.014414
  9.90E-06   -0.009052    0.803934
0.14082    0.127676    0.700019   -0.014414
  9.90E-06   -0.003009    0.510481
0.28165    0.127676    0.700019   -0.014414
  9.90E-06    0.003034    0.217028
0.42247    0.127676    0.700019   -0.014414
  9.90E-06    0.009076   -0.076425
0.56329    0.127676    0.700019   -0.014414
  9.90E-06    0.015119   -0.369879

LOAD      -P2 --------------------

REL DIST          P          V2          V3
        T         M2          M3
0.00000   -0.058494   -0.396427    0.064958
 -1.08E-05    0.041150   -0.026417
0.14082   -0.058494   -0.396427    0.064958
 -1.08E-05    0.013919    0.139768
0.28165   -0.058494   -0.396427    0.064958
 -1.08E-05   -0.013312    0.305954
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                    Page
<          UNEQUAL          SETTLEMENT          >
                     724
```

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.42247	-0.058494	-0.396427	0.064958
-1.08E-05	-0.040543	0.472139	
0.56329	-0.058494	-0.396427	0.064958
-1.08E-05	-0.067774	0.638324	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.113824	0.544342	-0.268170
2.76E-05	-0.169962	-0.640390	
0.14082	0.113824	0.544342	-0.268170
2.76E-05	-0.057543	-0.868582	
0.28165	0.113824	0.544342	-0.268170
2.76E-05	0.054876	-1.096774	
0.42247	0.113824	0.544342	-0.268170
2.76E-05	0.167295	-1.324967	
0.56329	0.113824	0.544342	-0.268170
2.76E-05	0.279714	-1.553159	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.648518	-0.884048	0.774286
-5.12E-05	0.490270	-0.474242	
0.14082	-0.648518	-0.884048	0.774286
-5.12E-05	0.165683	-0.603643	
0.28165	-0.648518	-0.884048	0.774286
-5.12E-05	-0.158903	-0.233043	
0.42247	-0.648518	-0.884048	0.774286
-5.12E-05	-0.483489	0.137557	
0.56329	-0.648518	-0.884048	0.774286
-5.12E-05	-0.808076	0.508157	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.493452	0.186748	-0.560164
2.68E-05	-0.354610	1.010136	
0.14082	0.493452	0.186748	-0.560164
2.68E-05	-0.119785	0.931850	
0.28165	0.493452	0.186748	-0.560164
2.68E-05	0.115040	0.853564	
0.42247	0.493452	0.186748	-0.560164
2.68E-05	0.349865	0.775278	
0.56329	0.493452	0.186748	-0.560164
2.68E-05	0.584690	0.696991	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.734952	-1.431109	0.842749
-6.42E-05	0.533623	-1.173681	
0.14082	-0.734952	-1.431109	0.842749
-6.42E-05	0.180337	-0.573749	
0.28165	-0.734952	-1.431109	0.842749
-6.42E-05	-0.172950	0.026183	
0.42247	-0.734952	-1.431109	0.842749
-6.42E-05	-0.526237	0.626114	
0.56329	-0.734952	-1.431109	0.842749
-6.42E-05	-0.879523	1.226046	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.734952	1.431109	-0.842749
6.42E-05	-0.533623	1.173681	
0.14082	0.734952	1.431109	-0.842749
6.42E-05	-0.180337	0.573749	
0.28165	0.734952	1.431109	-0.842749
6.42E-05	0.172950	-0.026183	
0.42247	0.734952	1.431109	-0.842749
6.42E-05	0.526237	-0.626114	
0.56329	0.734952	1.431109	-0.842749
6.42E-05	0.879523	-1.226046	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.734952	1.431109	0.842749
6.42E-05	0.533623	1.173681	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.14082	0.734952	1.431109	0.842749
6.42E-05	0.180337	0.931850	
0.28165	0.734952	1.431109	0.842749
6.42E-05	0.172950	0.853564	
0.42247	0.734952	1.431109	0.842749
6.42E-05	0.526237	0.775278	
0.56329	0.734952	1.431109	0.842749
6.42E-05	0.879523	1.226046	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.734952	-1.431109	-0.842749
-6.42E-05	-0.533623	-1.173681	
0.14082	-0.734952	-1.431109	-0.842749
-6.42E-05	-0.180337	-0.868582	
0.28165	-0.734952	-1.431109	-0.842749
-6.42E-05	-0.172950	-1.096774	
0.42247	-0.734952	-1.431109	-0.842749
-6.42E-05	-0.526237	-1.324967	
0.56329	-0.734952	-1.431109	-0.842749
-6.42E-05	-0.879523	-1.553159	

ELEM 376 ========== LENGTH = 4.475174

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.040059	0.077347	-0.179662
-2.45E-05	-0.416500	0.023880	
0.25000	-0.040059	0.077347	-0.179662
-2.45E-05	-0.215495	-0.062655	
0.50000	-0.040059	0.077347	-0.179662
-2.45E-05	-0.014491	-0.149190	
0.75000	-0.040059	0.077347	-0.179662
-2.45E-05	0.186514	-0.235725	
1.00000	-0.040059	0.077347	-0.179662
-2.45E-05	0.387519	-0.322260	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.074538	-0.157922	0.226104
2.43E-05	0.524626	-0.029674	
0.25000	0.074538	-0.157922	0.226104
2.43E-05	0.271662	0.147008	
0.50000	0.074538	-0.157922	0.226104
2.43E-05	0.018698	0.323690	
0.75000	0.074538	-0.157922	0.226104
2.43E-05	-0.234266	0.500372	
1.00000	0.074538	-0.157922	0.226104
2.43E-05	-0.487230	0.677054	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.015696	0.108638	-0.060640
8.14E-06	-0.141217	0.008233	
0.25000	-0.015696	0.108638	-0.060640
8.14E-06	-0.073374	-0.113310	
0.50000	-0.015696	0.108638	-0.060640
8.14E-06	-0.005531	-0.234854	
0.75000	-0.015696	0.108638	-0.060640
8.14E-06	0.062313	-0.356398	
1.00000	-0.015696	0.108638	-0.060640
8.14E-06	0.130156	-0.477941	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.024547	-0.036509	0.017991
-1.03E-05	0.041941	-0.003109	
0.25000	-0.024547	-0.036509	0.017991
-1.03E-05	0.021813	0.037738	
0.50000	-0.024547	-0.036509	0.017991
-1.03E-05	0.001684	0.078584	
0.75000	-0.024547	-0.036509	0.017991
-1.03E-05	-0.018444	0.119431	
1.00000	-0.024547	-0.036509	0.017991
-1.03E-05	-0.038573	0.160278	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.007031	0.010353	-0.003934
3.12E-06	-0.009190	0.000723	
0.25000	0.007031	0.010353	-0.003934
3.12E-06	-0.004788	-0.010860	
0.50000	0.007031	0.010353	-0.003934
3.12E-06	-0.000386	-0.022443	
0.75000	0.007031	0.010353	-0.003934
3.12E-06	0.004015	-0.034026	
1.00000	0.007031	0.010353	-0.003934
3.12E-06	0.008417	-0.045608	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001267	-0.001906	0.000140
-6.74E-07	0.000340	-5.38E-05	
0.25000	-0.001267	-0.001906	0.000140
-6.74E-07	0.000183	0.002079	
0.50000	-0.001267	-0.001906	0.000140
-6.74E-07	2.58E-05	0.004212	
0.75000	-0.001267	-0.001906	0.000140
-6.74E-07	0.000131	0.006345	
1.00000	-0.001267	-0.001906	0.000140
-6.74E-07	-0.000288	0.008478	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.048724	0.196338	-0.244236
-1.33E-05	-0.566907	0.032836	
0.25000	-0.048724	0.196338	-0.244236
-1.33E-05	-0.293657	-0.186825	
0.50000	-0.048724	0.196338	-0.244236
-1.33E-05	-0.020408	-0.406486	
0.75000	-0.048724	0.196338	-0.244236
-1.33E-05	0.252842	-0.626148	
1.00000	-0.048724	0.196338	-0.244236
-1.33E-05	0.526091	-0.845809	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.048724	-0.196338	0.244236
1.33E-05	0.566907	-0.032836	
0.25000	0.048724	-0.196338	0.244236
1.33E-05	0.293657	0.186825	
0.50000	0.048724	-0.196338	0.244236
1.33E-05	0.020408	0.406486	
0.75000	0.048724	-0.196338	0.244236
1.33E-05	-0.252842	0.626148	
1.00000	0.048724	-0.196338	0.244236
1.33E-05	-0.526091	0.845809	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.074538	0.196338	0.244236
2.43E-05	0.566907	0.032836	
0.25000	0.074538	0.196338	0.244236
2.43E-05	0.293657	0.186825	
0.50000	0.074538	0.196338	0.244236
2.43E-05	0.020408	0.406486	
0.75000	0.074538	0.196338	0.244236
2.43E-05	0.252842	0.626148	
1.00000	0.074538	0.196338	0.244236
2.43E-05	0.526091	0.845809	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.048724	-0.196338	-0.244236
-2.45E-05	-0.566907	-0.032836	
0.25000	-0.048724	-0.196338	-0.244236
-2.45E-05	-0.293657	-0.186825	
0.50000	-0.048724	-0.196338	-0.244236
-2.45E-05	-0.020408	-0.406486	
0.75000	-0.048724	-0.196338	-0.244236
-2.45E-05	-0.252842	-0.626148	
1.00000	-0.048724	-0.196338	-0.244236
-2.45E-05	-0.526091	-0.845809	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 377 ========== LENGTH = 4.972248

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.058637	0.058042	-0.130286
-1.46E-05	0.323333	-0.279512	
0.25000	-0.058637	0.058042	-0.130286
-1.46E-05	-0.161380	-0.351662	
0.50000	-0.058637	0.058042	-0.130286
-1.46E-05	0.000574	-0.423812	
0.75000	-0.058637	0.058042	-0.130286
-1.46E-05	0.162527	-0.495962	
1.00000	-0.058637	0.058042	-0.130286
-1.46E-05	0.324481	-0.568112	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.112408	-0.113648	0.161738
1.22E-05	0.402674	0.623350	
0.25000	0.112408	-0.113648	0.161738
1.22E-05	0.201623	0.764823	
0.50000	0.112408	-0.113648	0.161738
1.22E-05	0.000572	0.906095	
0.75000	0.112408	-0.113648	0.161738
1.22E-05	-0.200479	1.047367	
1.00000	0.112408	-0.113648	0.161738
1.22E-05	-0.401529	1.188639	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.023460	0.069337	-0.041360
6.79E-06	-0.104279	-0.463841	
0.25000	-0.023460	0.069337	-0.041360
6.79E-06	-0.052866	-0.550092	
0.50000	-0.023460	0.069337	-0.041360
6.79E-06	-0.001453	-0.636222	
0.75000	-0.023460	0.069337	-0.041360
6.79E-06	0.049959	-0.722413	
1.00000	-0.023460	0.069337	-0.041360
6.79E-06	0.101372	-0.808603	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.039640	-0.017850	0.012543
-5.66E-06	0.031587	0.156041	
0.25000	-0.039640	-0.017850	0.012543
-5.66E-06	0.015995	0.178229	
0.50000	-0.039640	-0.017850	0.012543
-5.66E-06	0.000403	0.200418	
0.75000	-0.039640	-0.017850	0.012543
-5.66E-06	-0.015188	0.222606	
1.00000	-0.039640	-0.017850	0.012543
-5.66E-06	-0.030780	0.244795	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.011314	0.005022	-0.002703
1.72E-06	-0.006845	-0.044686	
0.25000	0.011314	0.005022	-0.002703
1.72E-06	-0.003486	-0.050929	
0.50000	0.011314	0.005022	-0.002703
1.72E-06	-0.000126	-0.057171	
0.75000	0.011314	0.005022	-0.002703
1.72E-06	0.003234	-0.063414	
1.00000	0.011314	0.005022	-0.002703
1.72E-06	0.006594	-0.069657	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001985	-0.000903	6.73E-05
-3.82E-07	0.000197	0.008448	
0.25000	-0.001985	-0.000903	6.73E-05
-3.82E-07	0.000113	0.009571	
0.50000	-0.001985	-0.000903	6.73E-05
-3.82E-07	2.97E-05	0.010694	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.001985	-0.000903	6.73E-05
-3.82E-07	-5.39E-05	0.011817	
1.00000	-0.001985	-0.000903	6.73E-05
-3.82E-07	-0.000138	0.012939	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.070783	0.132402	-0.174348
-6.14E-06	-0.434457	-0.788039	
0.25000	-0.070783	0.132402	-0.174348
-6.14E-06	-0.217731	-0.952623	
0.50000	-0.070783	0.132402	-0.174348
-6.14E-06	-0.001005	-1.117206	
0.75000	-0.070783	0.132402	-0.174348
-6.14E-06	0.215721	-1.281789	
1.00000	-0.070783	0.132402	-0.174348
-6.14E-06	0.432447	-1.446373	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.070783	-0.132402	0.174348
6.14E-06	0.434457	0.788039	
0.25000	0.070783	-0.132402	0.174348
6.14E-06	0.217731	0.952623	
0.50000	0.070783	-0.132402	0.174348
6.14E-06	0.001005	1.117206	
0.75000	0.070783	-0.132402	0.174348
6.14E-06	-0.215721	1.281789	
1.00000	0.070783	-0.132402	0.174348
6.14E-06	-0.432447	1.446373	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.112408	0.132402	0.174348
1.22E-05	0.434457	0.788039	
0.25000	0.112408	0.132402	0.174348
1.22E-05	0.217731	0.952623	
0.50000	0.112408	0.132402	0.174348
1.22E-05	0.001005	1.117206	
0.75000	0.112408	0.132402	0.174348
1.22E-05	0.215721	1.281789	
1.00000	0.112408	0.132402	0.174348
1.22E-05	0.432447	1.446373	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.070783	-0.132402	-0.174348
-1.46E-05	-0.434457	-0.788039	
0.25000	-0.070783	-0.132402	-0.174348
-1.46E-05	-0.217731	-0.952623	
0.50000	-0.070783	-0.132402	-0.174348
-1.46E-05	-0.001453	-1.117206	
0.75000	-0.070783	-0.132402	-0.174348
-1.46E-05	-0.215721	-1.281789	
1.00000	-0.070783	-0.132402	-0.174348
-1.46E-05	-0.432447	-1.446373	

ELEM 378 ========== LENGTH = 4.973312

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.043969	0.065033	-0.127721
-1.08E-05	-0.319975	-0.528927	
0.25000	-0.043969	0.065033	-0.127721
-1.08E-05	-0.161176	-0.609784	
0.50000	-0.043969	0.065033	-0.127721
-1.08E-05	-0.002377	-0.690641	
0.75000	-0.043969	0.065033	-0.127721
-1.08E-05	0.156422	-0.771498	
1.00000	-0.043969	0.065033	-0.127721
-1.08E-05	0.315220	-0.852355	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.092703	-0.130097	0.154414
7.91E-06	0.388961	1.140452	
0.25000	0.092703	-0.130097	0.154414
7.91E-06	0.196974	1.302206	
0.50000	0.092703	-0.130097	0.154414
7.91E-06	0.004987	1.463959	
0.75000	0.092703	-0.130097	0.154414
7.91E-06	-0.186999	1.625712	
1.00000	0.092703	-0.130097	0.154414
7.91E-06	-0.378986	1.787466	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.019111	0.084721	-0.035568
5.03E-06	-0.091804	-0.796922	
0.25000	-0.019111	0.084721	-0.035568
5.03E-06	-0.047580	-0.902258	
0.50000	-0.019111	0.084721	-0.035568
5.03E-06	-0.003357	-1.007594	
0.75000	-0.019111	0.084721	-0.035568
5.03E-06	0.040866	-1.112930	
1.00000	-0.019111	0.084721	-0.035568
5.03E-06	0.085089	-1.218266	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.038823	-0.025568	0.011211
-2.84E-06	0.028847	0.241411	
0.25000	-0.038823	-0.025568	0.011211
-2.84E-06	0.014908	0.273300	
0.50000	-0.038823	-0.025568	0.011211
-2.84E-06	0.000968	0.304989	
0.75000	-0.038823	-0.025568	0.011211
-2.84E-06	-0.012971	0.336778	
1.00000	-0.038823	-0.025568	0.011211
-2.84E-06	-0.026910	0.368567	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.010986	0.007233	-0.002331
8.92E-07	-0.006066	-0.068954	
0.25000	0.010986	0.007233	-0.002331
8.92E-07	-0.003168	-0.077948	
0.50000	0.010986	0.007233	-0.002331
8.92E-07	-0.000271	-0.086941	
0.75000	0.010986	0.007233	-0.002331
8.92E-07	0.002627	-0.095934	
1.00000	0.010986	0.007233	-0.002331
8.92E-07	0.005525	-0.104928	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001786	-0.001322	-5.17E-06
-2.13E-07	3.65E-05	0.012940	
0.25000	-0.001786	-0.001322	-5.17E-06
-2.13E-07	4.30E-05	0.014584	
0.50000	-0.001786	-0.001322	-5.17E-06
-2.13E-07	4.94E-05	0.016228	
0.75000	-0.001786	-0.001322	-5.17E-06
-2.13E-07	5.58E-05	0.017871	
1.00000	-0.001786	-0.001322	-5.17E-06
-2.13E-07	6.22E-05	0.019515	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.052094	0.156987	-0.165620
-4.85E-06	-0.417845	-1.394803	
0.25000	-0.052094	0.156987	-0.165620
-4.85E-06	-0.211925	-1.589989	
0.50000	-0.052094	0.156987	-0.165620
-4.85E-06	-0.006005	-1.785176	
0.75000	-0.052094	0.156987	-0.165620
-4.85E-06	0.199915	-1.980362	
1.00000	-0.052094	0.156987	-0.165620
-4.85E-06	0.405834	-2.175548	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.052094	-0.156987	0.165620
4.85E-06	0.417845	1.394803	
0.25000	0.052094	-0.156987	0.165620
4.85E-06	0.211925	1.589989	
0.50000	0.052094	-0.156987	0.165620
4.85E-06	0.006005	1.785176	
0.75000	0.052094	-0.156987	0.165620
4.85E-06	-0.199915	1.980362	
1.00000	0.052094	-0.156987	0.165620
4.85E-06	-0.405834	2.175548	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.092703	0.156987	0.165620
7.91E-06	0.417845	1.394803	
0.25000	0.092703	0.156987	0.165620
7.91E-06	0.211925	1.589989	
0.50000	0.092703	0.156987	0.165620
7.91E-06	0.006005	1.785176	
0.75000	0.092703	0.156987	0.165620
7.91E-06	0.199915	1.980362	
1.00000	0.092703	0.156987	0.165620
7.91E-06	0.405834	2.175548	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.052094	-0.156987	-0.165620
-1.08E-05	-0.417845	-1.394803	
0.25000	-0.052094	-0.156987	-0.165620
-1.08E-05	-0.211925	-1.589989	
0.50000	-0.052094	-0.156987	-0.165620
-1.08E-05	-0.006005	-1.785176	
0.75000	-0.052094	-0.156987	-0.165620
-1.08E-05	-0.199915	-1.980362	
1.00000	-0.052094	-0.156987	-0.165620
-1.08E-05	-0.405834	-2.175548	

ELEM 379 ========== LENGTH = 4.972517

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.013417	0.066336	-0.120937
-1.04E-05	-0.303843	-0.815075	
0.25000	-0.013417	0.066336	-0.120937
-1.04E-05	-0.153502	-0.897539	
0.50000	-0.013417	0.066336	-0.120937
-1.04E-05	-0.003161	-0.980003	
0.75000	-0.013417	0.066336	-0.120937
-1.04E-05	0.147179	-1.062468	
1.00000	-0.013417	0.066336	-0.120937
-1.04E-05	0.297520	-1.144932	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.046415	-0.132638	0.140053
9.02E-06	0.354993	1.743261	
0.25000	0.046415	-0.132638	0.140053
9.02E-06	0.180889	1.908148	
0.50000	0.046415	-0.132638	0.140053
9.02E-06	0.006784	2.073035	
0.75000	0.046415	-0.132638	0.140053
9.02E-06	-0.167320	2.237921	
1.00000	0.046415	-0.132638	0.140053
9.02E-06	-0.341424	2.402808	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	

0.00000	-0.009603	0.085956	-0.026011
2.22E-06	-0.069368	-1.208971	
0.25000	-0.009603	0.085956	-0.026011
2.22E-06	-0.037033	-1.315825	
0.50000	-0.009603	0.085956	-0.026011
2.22E-06	-0.004699	-1.422679	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.009603	0.085956	-0.026011
2.22E-06	0.027636	-1.529533	
1.00000	-0.009603	0.085956	-0.026011
2.22E-06	0.059971	-1.636387	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.030805	-0.025566	0.008659
-1.13E-06	0.022925	0.365581	
0.25000	-0.030805	-0.025566	0.008659
-1.13E-06	0.012160	0.397362	
0.50000	-0.030805	-0.025566	0.008659
-1.13E-06	0.001395	0.429144	
0.75000	-0.030805	-0.025566	0.008659
-1.13E-06	-0.009370	0.460925	
1.00000	-0.030805	-0.025566	0.008659
-1.13E-06	-0.020135	0.492707	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.008560	0.007236	-0.001636
3.91E-07	-0.004460	-0.104330	
0.25000	0.008560	0.007236	-0.001636
3.91E-07	-0.002426	-0.113326	
0.50000	0.008560	0.007236	-0.001636
3.91E-07	-0.000391	-0.122321	
0.75000	0.008560	0.007236	-0.001636
3.91E-07	0.001643	-0.131316	
1.00000	0.008560	0.007236	-0.001636
3.91E-07	0.003677	-0.140311	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001150	-0.001324	-0.000128
-1.13E-07	-0.000247	0.019534	
0.25000	-0.001150	-0.001324	-0.000128
-1.13E-07	-8.74E-05	0.021180	
0.50000	-0.001150	-0.001324	-0.000128
-1.13E-07	7.20E-05	0.022825	
0.75000	-0.001150	-0.001324	-0.000128
-1.13E-07	0.000231	0.024471	
1.00000	-0.001150	-0.001324	-0.000128
-1.13E-07	0.000391	0.026116	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.014460	0.159528	-0.148584
-7.77E-06	-0.377671	-2.128377	
0.25000	-0.014460	0.159528	-0.148584
-7.77E-06	-0.192961	-2.326690	
0.50000	-0.014460	0.159528	-0.148584
-7.77E-06	-0.008252	-2.525004	
0.75000	-0.014460	0.159528	-0.148584
-7.77E-06	0.176458	-2.723317	
1.00000	-0.014460	0.159528	-0.148584
-7.77E-06	0.361168	-2.921630	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.014460	-0.159528	0.148584
7.77E-06	0.377671	2.128377	
0.25000	0.014460	-0.159528	0.148584
7.77E-06	0.192961	2.326690	
0.50000	0.014460	-0.159528	0.148584
7.77E-06	0.008252	2.525004	
0.75000	0.014460	-0.159528	0.148584
7.77E-06	-0.176458	2.723317	
1.00000	0.014460	-0.159528	0.148584
7.77E-06	-0.361168	2.921630	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.046415	0.159528	0.148584
9.02E-06	0.377671	2.128377	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.046415	0.159528	0.148584
9.02E-06	0.192961	2.326690	
0.50000	0.046415	0.159528	0.148584
9.02E-06	0.008252	2.525004	
0.75000	0.046415	0.159528	0.148584
9.02E-06	0.176458	2.723317	
1.00000	0.046415	0.159528	0.148584
9.02E-06	0.361168	2.921630	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.030805	-0.159528	-0.148584
-1.04E-05	-0.377671	-2.128377	
0.25000	-0.030805	-0.159528	-0.148584
-1.04E-05	-0.192961	-2.326690	
0.50000	-0.030805	-0.159528	-0.148584
-1.04E-05	-0.008252	-2.525004	
0.75000	-0.030805	-0.159528	-0.148584
-1.04E-05	-0.176458	-2.723317	
1.00000	-0.030805	-0.159528	-0.148584
-1.04E-05	-0.361168	-2.921630	

ELEM 380 ========== LENGTH = 4.972947

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.015761	0.065091	-0.112090
-1.19E-05	-0.282854	-1.110003	
0.25000	0.015761	0.065091	-0.112090
-1.19E-05	-0.143499	-1.190928	
0.50000	0.015761	0.065091	-0.112090
-1.19E-05	-0.004145	-1.271852	
0.75000	0.015761	0.065091	-0.112090
-1.19E-05	0.135210	-1.352776	
1.00000	0.015761	0.065091	-0.112090
-1.19E-05	0.274565	-1.433700	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.002006	-0.130201	0.121205
1.31E-05	0.310221	2.363593	
0.25000	0.002006	-0.130201	0.121205
1.31E-05	0.159535	2.525463	
0.50000	0.002006	-0.130201	0.121205
1.31E-05	0.008849	2.687334	
0.75000	0.002006	-0.130201	0.121205
1.31E-05	-0.141837	2.849205	
1.00000	0.002006	-0.130201	0.121205
1.31E-05	-0.292523	3.011075	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001242	0.084583	-0.013176
-1.40E-06	-0.038882	-1.630439	
0.25000	-0.001242	0.084583	-0.013176
-1.40E-06	-0.022501	-1.735596	
0.50000	-0.001242	0.084583	-0.013176
-1.40E-06	-0.006120	-1.840753	
0.75000	-0.001242	0.084583	-0.013176
-1.40E-06	0.010260	-1.945910	
1.00000	-0.001242	0.084583	-0.013176
-1.40E-06	0.026641	-2.051067	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.021993	-0.025336	0.005006
2.45E-07	0.014284	0.490533	
0.25000	-0.021993	-0.025336	0.005006
2.45E-07	0.008060	0.522131	
0.50000	-0.021993	-0.025336	0.005006
2.45E-07	0.001837	0.553629	
0.75000	-0.021993	-0.025336	0.005006
2.45E-07	-0.004387	0.585128	
1.00000	-0.021993	-0.025336	0.005006
2.45E-07	-0.010611	0.616626	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.005914	0.007178	-0.000638
-1.10E-08	-0.002103	-0.139963	
0.25000	0.005914	0.007178	-0.000638
-1.10E-08	0.001309	-0.148887	
0.50000	0.005914	0.007178	-0.000638
-1.10E-08	-0.000515	-0.157812	
0.75000	0.005914	0.007178	-0.000638
-1.10E-08	0.000279	-0.166736	
1.00000	0.005914	0.007178	-0.000638
-1.10E-08	0.001072	-0.175660	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000446	-0.001316	-0.000306
-3.26E-08	-0.000666	0.026180	
0.25000	-0.000446	-0.001316	-0.000306
-3.26E-08	-0.000286	0.027816	
0.50000	-0.000446	-0.001316	-0.000306
-3.26E-08	9.47E-05	0.029452	
0.75000	-0.000446	-0.001316	-0.000306
-3.26E-08	0.000475	0.031089	
1.00000	-0.000446	-0.001316	-0.000306
-3.26E-08	0.000856	0.032725	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.020433	0.156853	-0.125905
-1.33E-05	-0.323839	-2.880405	
0.25000	0.020433	0.156853	-0.125905
-1.33E-05	-0.167309	-3.075411	
0.50000	0.020433	0.156853	-0.125905
-1.33E-05	-0.010780	-3.270416	
0.75000	0.020433	0.156853	-0.125905
-1.33E-05	0.145749	-3.465421	
1.00000	0.020433	0.156853	-0.125905
-1.33E-05	0.302279	-3.660427	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.020433	-0.156853	0.125905
1.33E-05	0.323839	2.880405	
0.25000	-0.020433	-0.156853	0.125905
1.33E-05	0.167309	3.075411	
0.50000	-0.020433	-0.156853	0.125905
1.33E-05	0.010780	3.270416	
0.75000	-0.020433	-0.156853	0.125905
1.33E-05	-0.145749	3.465421	
1.00000	-0.020433	-0.156853	0.125905
1.33E-05	-0.302279	3.660427	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.020433	0.156853	0.125905
1.33E-05	0.323839	2.880405	
0.25000	0.020433	0.156853	0.125905
1.33E-05	0.167309	3.075411	
0.50000	0.020433	0.156853	0.125905
1.33E-05	0.010780	3.270416	
0.75000	0.020433	0.156853	0.125905
1.33E-05	0.145749	3.465421	
1.00000	0.020433	0.156853	0.125905
1.33E-05	0.302279	3.660427	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.021993	-0.156853	-0.125905
-1.33E-05	-0.323839	-2.880405	
0.25000	-0.021993	-0.156853	-0.125905
-1.33E-05	-0.167309	-3.075411	
0.50000	-0.021993	-0.156853	-0.125905
-1.33E-05	-0.010780	-3.270416	
0.75000	-0.021993	-0.156853	-0.125905
-1.33E-05	-0.145749	-3.465421	
1.00000	-0.021993	-0.156853	-0.125905
-1.33E-05	-0.302279	-3.660427	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 381 ========== LENGTH = 4.972401

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.039428	0.039896	-0.101256
-1.39E-05	-0.256614	-1.401736	
0.25000	0.039428	0.039896	-0.101256
-1.39E-05	-0.130742	-1.451330	
0.50000	0.039428	0.039896	-0.101256
-1.39E-05	-0.004871	-1.500925	
0.75000	0.039428	0.039896	-0.101256
-1.39E-05	0.121001	-1.550519	
1.00000	0.039428	0.039896	-0.101256
-1.39E-05	0.246873	-1.600113	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.032819	-0.077133	0.098047
1.78E-05	0.254203	2.978178	
0.25000	-0.032819	-0.077133	0.098047
1.78E-05	0.132320	3.074062	
0.50000	-0.032819	-0.077133	0.098047
1.78E-05	0.010438	3.169947	
0.75000	-0.032819	-0.077133	0.098047
1.78E-05	-0.111445	3.265831	
1.00000	-0.032819	-0.077133	0.098047
1.78E-05	-0.233328	3.361715	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.004400	0.048470	0.002733
-5.20E-06	-0.000449	-2.049438	
0.25000	0.004400	0.048470	0.002733
-5.20E-06	-0.003846	-2.109690	
0.50000	0.004400	0.048470	0.002733
-5.20E-06	-0.007243	-2.169943	
0.75000	0.004400	0.048470	0.002733
-5.20E-06	-0.010640	-2.230195	
1.00000	0.004400	0.048470	0.002733
-5.20E-06	-0.014037	-2.290448	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.015002	-0.014613	0.000383
1.61E-06	0.003125	0.615798	
0.25000	-0.015002	-0.014613	0.000383
1.61E-06	0.002649	0.633963	
0.50000	-0.015002	-0.014613	0.000383
1.61E-06	0.002173	0.652129	
0.75000	-0.015002	-0.014613	0.000383
1.61E-06	0.001697	0.670294	
1.00000	-0.015002	-0.014613	0.000383
1.61E-06	0.001221	0.688460	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.003792	0.004137	0.000625
-4.15E-07	0.000944	-0.175652	
0.25000	0.003792	0.004137	0.000625
-4.15E-07	0.000167	-0.180794	
0.50000	0.003792	0.004137	0.000625
-4.15E-07	-0.000609	-0.185937	
0.75000	0.003792	0.004137	0.000625
-4.15E-07	-0.001386	-0.191079	
1.00000	0.003792	0.004137	0.000625
-4.15E-07	-0.002163	-0.196222	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.000201	-0.000756	-0.000531
5.18E-08	-0.001209	0.032850	
0.25000	0.000201	-0.000756	-0.000531
5.18E-08	-0.000548	0.033789	
0.50000	0.000201	-0.000756	-0.000531
5.18E-08	0.000112	0.034729	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.000201	-0.000756	-0.000531
5.18E-08	0.000772	0.035668	
1.00000	0.000201	-0.000756	-0.000531
5.18E-08	0.001433	0.036608	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.047621	0.092502	-0.097899
-1.95E-05	-0.256119	-3.626825	
0.25000	0.047621	0.092502	-0.097899
-1.95E-05	-0.134421	-3.741815	
0.50000	0.047621	0.092502	-0.097899
-1.95E-05	-0.012723	-3.856804	
0.75000	0.047621	0.092502	-0.097899
-1.95E-05	0.108976	-3.971793	
1.00000	0.047621	0.092502	-0.097899
-1.95E-05	0.230674	-4.086783	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.047621	-0.092502	0.097899
1.95E-05	0.256119	3.626825	
0.25000	-0.047621	-0.092502	0.097899
1.95E-05	0.134421	3.741815	
0.50000	-0.047621	-0.092502	0.097899
1.95E-05	0.012723	3.856804	
0.75000	-0.047621	-0.092502	0.097899
1.95E-05	0.108976	3.971793	
1.00000	-0.047621	-0.092502	0.097899
1.95E-05	0.230674	4.086783	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.047621	0.092502	0.098047
1.95E-05	0.256119	3.626825	
0.25000	0.047621	0.092502	0.098047
1.95E-05	0.134421	3.741815	
0.50000	0.047621	0.092502	0.098047
1.95E-05	0.012723	3.856804	
0.75000	0.047621	0.092502	0.098047
1.95E-05	0.121001	3.971793	
1.00000	0.047621	0.092502	0.098047
1.95E-05	0.246873	4.086783	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.047621	-0.092502	-0.101256
-1.95E-05	-0.256614	-3.626825	
0.25000	-0.047621	-0.092502	-0.101256
-1.95E-05	-0.134421	-3.741815	
0.50000	-0.047621	-0.092502	-0.101256
-1.95E-05	-0.012723	-3.856804	
0.75000	-0.047621	-0.092502	-0.101256
-1.95E-05	-0.111445	-3.971793	
1.00000	-0.047621	-0.092502	-0.101256
-1.95E-05	-0.233328	-4.086783	

ELEM 382 ========== LENGTH = 4.972976

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.058112	0.052542	-0.088483
-1.52E-05	-0.225640	-1.571731	
0.25000	0.058112	0.052542	-0.088483
-1.52E-05	-0.115635	-1.637053	
0.50000	0.058112	0.052542	-0.088483
-1.52E-05	-0.005629	-1.702375	
0.75000	0.058112	0.052542	-0.088483
-1.52E-05	0.104377	-1.767697	
1.00000	0.058112	0.052542	-0.088483
-1.52E-05	0.214383	-1.833019	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.059309	-0.103963	0.070868
2.14E-05	0.188212	3.338484	
0.25000	-0.059309	-0.103963	0.070868
2.14E-05	0.100106	3.465736	
0.50000	-0.059309	-0.103963	0.070868
2.14E-05	0.011999	3.594987	
0.75000	-0.059309	-0.103963	0.070868
2.14E-05	-0.076107	3.724239	
1.00000	-0.059309	-0.103963	0.070868
2.14E-05	-0.164213	3.853491	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.008187	0.067079	0.021338
-8.50E-06	0.044775	-2.294112	
0.25000	0.008187	0.067079	0.021338
-8.50E-06	0.018247	-2.377507	
0.50000	0.008187	0.067079	0.021338
-8.50E-06	-0.008281	-2.460902	
0.75000	0.008187	0.067079	0.021338
-8.50E-06	-0.034808	-2.544297	
1.00000	0.008187	0.067079	0.021338
-8.50E-06	-0.061336	-2.627692	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.010032	-0.020379	-0.005030
3.00E-06	-0.010031	0.689190	
0.25000	-0.010032	-0.020379	-0.005030
3.00E-06	-0.003777	0.714526	
0.50000	-0.010032	-0.020379	-0.005030
3.00E-06	0.002476	0.739862	
0.75000	-0.010032	-0.020379	-0.005030
3.00E-06	0.008730	0.765198	
1.00000	-0.010032	-0.020379	-0.005030
3.00E-06	0.014984	0.790534	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.002231	0.005793	0.002101
-8.38E-07	0.004530	-0.196638	
0.25000	0.002231	0.005793	0.002101
-8.38E-07	0.001918	-0.203841	
0.50000	0.002231	0.005793	0.002101
-8.38E-07	-0.000694	-0.211043	
0.75000	0.002231	0.005793	0.002101
-8.38E-07	-0.003306	-0.218245	
1.00000	0.002231	0.005793	0.002101
-8.38E-07	-0.005918	-0.225448	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.000811	-0.001071	-0.000793
1.49E-07	-0.001846	0.036807	
0.25000	0.000811	-0.001071	-0.000793
1.49E-07	-0.000859	0.038139	
0.50000	0.000811	-0.001071	-0.000793
1.49E-07	0.000127	0.039470	
0.75000	0.000811	-0.001071	-0.000793
1.49E-07	0.001114	0.040802	
1.00000	0.000811	-0.001071	-0.000793
1.49E-07	0.002100	0.042134	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.068530	0.125413	-0.065044
-2.45E-05	-0.176335	-4.062481	
0.25000	0.068530	0.125413	-0.065044
-2.45E-05	-0.095469	-4.218400	
0.50000	0.068530	0.125413	-0.065044
-2.45E-05	-0.014603	-4.374320	
0.75000	0.068530	0.125413	-0.065044
-2.45E-05	0.066263	-4.530239	
1.00000	0.068530	0.125413	-0.065044
-2.45E-05	0.147129	-4.686159	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.068530	-0.125413	0.065044
2.45E-05	0.176335	4.062481	
0.25000	-0.068530	-0.125413	0.065044
2.45E-05	0.095469	4.218400	
0.50000	-0.068530	-0.125413	0.065044
2.45E-05	0.014603	4.374320	
0.75000	-0.068530	-0.125413	0.065044
2.45E-05	-0.066263	4.530239	
1.00000	-0.068530	-0.125413	0.065044
2.45E-05	-0.147129	4.686159	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.068530	0.125413	0.070868
2.45E-05	0.188212	4.062481	
0.25000	0.068530	0.125413	0.070868
2.45E-05	0.100106	4.218400	
0.50000	0.068530	0.125413	0.070868
2.45E-05	0.014603	4.374320	
0.75000	0.068530	0.125413	0.070868
2.45E-05	0.104377	4.530239	
1.00000	0.068530	0.125413	0.070868
2.45E-05	0.214383	4.686159	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.068530	-0.125413	-0.088483
-2.45E-05	-0.222640	-4.062481	
0.25000	-0.068530	-0.125413	-0.088483
-2.45E-05	-0.115635	-4.218400	
0.50000	-0.068530	-0.125413	-0.088483
-2.45E-05	-0.014603	-4.374320	
0.75000	-0.068530	-0.125413	-0.088483
-2.45E-05	-0.076107	-4.530239	
1.00000	-0.068530	-0.125413	-0.088483
-2.45E-05	-0.164213	-4.686159	

ELEM 383 ========== LENGTH = 4.972683

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.073754	-0.003791	-0.074322
-1.44E-05	-0.190714	-1.808629	
0.25000	0.073754	-0.003791	-0.074322
-1.44E-05	-0.098319	-1.803916	
0.50000	0.073754	-0.003791	-0.074322
-1.44E-05	-0.005925	-1.799202	
0.75000	0.073754	-0.003791	-0.074322
-1.44E-05	0.086470	-1.794489	
1.00000	0.073754	-0.003791	-0.074322
-1.44E-05	0.178865	-1.789776	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.081867	0.014743	0.040496
2.06E-05	0.113548	3.836757	
0.25000	-0.081867	0.014743	0.040496

```
 2.06E-05     0.063205     3.818429
0.50000     -0.081867     0.014743     0.040496
 2.06E-05     0.012862     3.800101
0.75000     -0.081867     0.014743     0.040496
 2.06E-05     -0.037481     3.781774
1.00000     -0.081867     0.014743     0.040496
 2.06E-05     -0.087824     3.763446

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.012278    -0.013392     0.042243
-9.34E-06     0.096023    -2.637151
0.25000     0.012278    -0.013392     0.042243
-9.34E-06     0.043508    -2.620502
0.50000     0.012278    -0.013392     0.042243
-9.34E-06     -0.009007    -2.603853
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  738

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.75000     0.012278    -0.013392     0.042243
-9.34E-06     -0.061522    -2.587205
1.00000     0.012278    -0.013392     0.042243
-9.34E-06     -0.114037    -2.570556

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.006703     0.003160    -0.011078
 4.11E-06     -0.024862     0.792928
0.25000    -0.006703     0.003160    -0.011078
 4.11E-06     -0.011089     0.789000
0.50000    -0.006703     0.003160    -0.011078
 4.11E-06     0.002683     0.785072
0.75000    -0.006703     0.003160    -0.011078
 4.11E-06     0.016456     0.781144
1.00000    -0.006703     0.003160    -0.011078
 4.11E-06     0.030228     0.777216

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.001092    -0.000859     0.003749
-1.22E-06     0.008568    -0.226319
0.25000     0.001092    -0.000859     0.003749
-1.22E-06     0.003908    -0.225251
0.50000     0.001092    -0.000859     0.003749
-1.22E-06     -0.000752    -0.224183
0.75000     0.001092    -0.000859     0.003749
-1.22E-06     -0.005412    -0.223115
1.00000     0.001092    -0.000859     0.003749
-1.22E-06     -0.010073    -0.222047

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.001446     0.000140    -0.001087
 2.63E-07     -0.002563     0.042415
0.25000     0.001446     0.000140    -0.001087
 2.63E-07     0.001212     0.042240
0.50000     0.001446     0.000140    -0.001087
 2.63E-07     0.000139     0.042066
0.75000     0.001446     0.000140    -0.001087
 2.63E-07     0.001490     0.041891
1.00000     0.001446     0.000140    -0.001087
 2.63E-07     0.002841     0.041716

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.087124    -0.018043    -0.028331
-2.49E-05     -0.086123    -4.672099
0.25000     0.087124     0.018043    -0.028331
-2.49E-05     -0.050904    -4.649669
0.50000     0.087124    -0.018043    -0.028331
-2.49E-05     -0.015684    -4.627239
0.75000     0.087124    -0.018043    -0.028331
-2.49E-05     0.019536    -4.604809
1.00000     0.087124    -0.018043    -0.028331
-2.49E-05     0.054755    -4.582379

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.087124     0.018043     0.028331
 2.49E-05     0.086123     4.672099
0.25000    -0.087124     0.018043     0.028331
 2.49E-05     0.050904     4.649669
0.50000    -0.087124     0.018043     0.028331
 2.49E-05     0.015684     4.627239
0.75000    -0.087124     0.018043     0.028331
 2.49E-05     -0.019536     4.604809
1.00000    -0.087124     0.018043     0.028331
 2.49E-05     -0.054755     4.582379

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.087124     0.018043     0.042243
2.49E-05     0.113548     4.672099
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  739

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.25000     0.087124     0.018043     0.042243
2.49E-05     0.063205     4.649669
0.50000     0.087124     0.018043     0.042243
2.49E-05     0.015684     4.627239
0.75000     0.087124     0.018043     0.042243
2.49E-05     -0.031836     4.604809
1.00000     0.087124     0.018043     0.042243
2.49E-05     0.178865     4.582379

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.087124    -0.018043    -0.074322
-2.49E-05     -0.190714    -4.672099
0.25000    -0.087124    -0.018043    -0.074322
-2.49E-05     -0.098319    -4.649669
0.50000    -0.087124    -0.018043    -0.074322
-2.49E-05     -0.015684    -4.627239
0.75000    -0.087124    -0.018043    -0.074322
-2.49E-05     -0.061522    -4.604809
1.00000    -0.087124    -0.018043    -0.074322
-2.49E-05     -0.114037    -4.582379

ELEM      384 ================== LENGTH
=     4.972600

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.088740    -0.003973    -0.057617
-1.00E-05     -0.150822    -1.769931
0.25000     0.088740    -0.003973    -0.057617
-1.00E-05     -0.079196    -1.764992
0.50000     0.088740    -0.003973    -0.057617
-1.00E-05     -0.007570    -1.760054
0.75000     0.088740    -0.003973    -0.057617
-1.00E-05     0.064057    -1.755115
1.00000     0.088740    -0.003973    -0.057617
-1.00E-05     0.135683    -1.750176

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.102612     0.015094     0.009129
 1.19E-05     0.035178     3.756039
0.25000    -0.102612     0.015094     0.009129
 1.19E-05     0.023829     3.737275
0.50000    -0.102612     0.015094     0.009129
 1.19E-05     0.012480     3.718510
0.75000    -0.102612     0.015094     0.009129
 1.19E-05     0.001132     3.699746
1.00000    -0.102612     0.015094     0.009129
 1.19E-05     -0.010217     3.680981

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.015721    -0.014562     0.061174
-5.56E-06     0.145655    -2.586183
0.25000     0.015721    -0.014562     0.061174
-5.56E-06     0.069607    -2.568081
0.50000     0.015721    -0.014562     0.061174
-5.56E-06     -0.006441    -2.549979
0.75000     0.015721    -0.014562     0.061174
-5.56E-06     -0.082489    -2.531876
1.00000     0.015721    -0.014562     0.061174
-5.56E-06     -0.158537    -2.513774

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.004145     0.004502    -0.016563
 4.89E-06     -0.039203     0.781394
0.25000    -0.004145     0.004502    -0.016563
 4.89E-06     -0.018613     0.775798
0.50000    -0.004145     0.004502    -0.016563
 4.89E-06     0.001978     0.770201
0.75000    -0.004145     0.004502    -0.016563
 4.89E-06     0.022569     0.764604
1.00000    -0.004145     0.004502    -0.016563
 4.89E-06     0.043159     0.759008
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  740

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.000108    -0.001363     0.005207
-1.60E-06     0.012412    -0.223400
0.25000     0.000108    -0.001363     0.005207
-1.60E-06     0.005939    -0.221706
0.50000     0.000108    -0.001363     0.005207
-1.60E-06     -0.000534    -0.220012
0.75000     0.000108    -0.001363     0.005207
-1.60E-06     -0.007007    -0.218318
1.00000     0.000108    -0.001363     0.005207
-1.60E-06     -0.013479    -0.216624

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.002189     0.000301    -0.001329
 4.33E-07     -0.003219     0.042081
0.25000     0.002189     0.000301    -0.001329
 4.33E-07     -0.001566     0.041707
0.50000     0.002189     0.000301    -0.001329
 4.33E-07     8.61E-05     0.041334
0.75000     0.002189     0.000301    -0.001329
 4.33E-07     0.001738     0.040960
1.00000     0.002189     0.000301    -0.001329
 4.33E-07     0.003391     0.040586

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.104568    -0.019897     0.008763
-1.72E-05     0.007244    -4.579515
0.25000     0.104568    -0.019897     0.008763
-1.72E-05     -0.003650    -4.554780
0.50000     0.104568    -0.019897     0.008763
-1.72E-05     -0.014544    -4.530045
0.75000     0.104568    -0.019897     0.008763
-1.72E-05     -0.025439    -4.505310
1.00000     0.104568    -0.019897     0.008763
-1.72E-05     -0.036333    -4.480575

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.104568     0.019897    -0.008763
 1.72E-05     -0.007244     4.579515
0.25000    -0.104568     0.019897    -0.008763
 1.72E-05     0.003650     4.554780
0.50000    -0.104568     0.019897    -0.008763
 1.72E-05     0.014544     4.530045
0.75000    -0.104568     0.019897    -0.008763
 1.72E-05     0.025439     4.505310
1.00000    -0.104568     0.019897    -0.008763
 1.72E-05     0.036333     4.480575

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.104568     0.019897     0.061174
1.72E-05     0.145655     4.579515
0.25000     0.104568     0.019897     0.061174
1.72E-05     0.069607     4.554780
0.50000     0.104568     0.019897     0.061174
1.72E-05     0.014544     4.530045
0.75000     0.104568     0.019897     0.061174
1.72E-05     0.064057     4.505310
1.00000     0.104568     0.019897     0.061174
1.72E-05     0.135683     4.480575

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.104568    -0.019897    -0.057617
-1.72E-05     -0.150822    -4.579515
0.25000    -0.104568    -0.019897    -0.057617
-1.72E-05     -0.079196    -4.554780
0.50000    -0.104568    -0.019897    -0.057617
-1.72E-05     -0.014544    -4.530045
0.75000    -0.104568    -0.019897    -0.057617
-1.72E-05     -0.082489    -4.505310
1.00000    -0.104568    -0.019897    -0.057617
-1.72E-05     -0.158537    -4.480575
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  741

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      385 ================== LENGTH
=     3.481038

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.096155     0.021814    -0.088511
-9.18E-07     -0.159488    -1.732558
0.25000     0.096155     0.021814    -0.088511
-9.18E-07     -0.082460    -1.751542
0.50000     0.096155     0.021814    -0.088511
-9.18E-07     -0.005433    -1.770526
0.75000     0.096155     0.021814    -0.088511
-9.18E-07     0.071595    -1.789510
1.00000     0.096155     0.021814    -0.088511
-9.18E-07     0.148622    -1.808494

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.108122    -0.004601    -0.033574
-6.10E-06     -0.046947     3.683462
0.25000    -0.108122    -0.004601    -0.033574
-6.10E-06     -0.017730     3.687466
0.50000    -0.108122    -0.004601    -0.033574
-6.10E-06     0.011488     3.691471
0.75000    -0.108122    -0.004601    -0.033574
-6.10E-06     0.040706     3.695475
1.00000    -0.108122    -0.004601    -0.033574
-6.10E-06     0.069923     3.699479

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.010733    -0.049926     0.154510
 3.69E-06     0.261185    -2.539177
0.25000     0.010733    -0.049926     0.154510
 3.69E-06     0.126721    -2.495728
0.50000     0.010733    -0.049926     0.154510
 3.69E-06     -0.007743    -2.452279
0.75000     0.010733    -0.049926     0.154510
 3.69E-06     -0.142207    -2.408830
1.00000     0.010733    -0.049926     0.154510
 3.69E-06     -0.276670    -2.365381

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.000788     0.042540    -0.042182
 4.52E-06     -0.071232     0.765916
0.25000    -0.000788     0.042540    -0.042182
 4.52E-06     -0.034523     0.728895
0.50000    -0.000788     0.042540    -0.042182
 4.52E-06     0.002186     0.691873
0.75000    -0.000788     0.042540    -0.042182
 4.52E-06     0.038895     0.654852
1.00000    -0.000788     0.042540    -0.042182
 4.52E-06     0.075604     0.617831

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.001024    -0.012059     0.012822
-1.80E-06     0.021705    -0.218748
0.25000    -0.001024    -0.012059     0.012822
-1.80E-06     0.010547    -0.208253
0.50000    -0.001024    -0.012059     0.012822
-1.80E-06     -0.000612    -0.197759
0.75000    -0.001024    -0.012059     0.012822
-1.80E-06     -0.011771    -0.187264
1.00000    -0.001024    -0.012059     0.012822
-1.80E-06     -0.022929    -0.176769

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.003047     0.002232    -0.003066
 6.06E-07     -0.005223     0.041105
0.25000     0.003047     0.002232    -0.003066
 6.06E-07     -0.002555     0.039162
0.50000     0.003047     0.002232    -0.003066
 6.06E-07     0.000113     0.037219
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  742

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2          M3
0.75000     0.003047     0.002232    -0.003066
 6.06E-07     0.002781     0.035277
1.00000     0.003047     0.002232    -0.003066
 6.06E-07     0.005449     0.033334

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.105863    -0.040172     0.078821
 9.72E-07     0.123402    -4.490483
0.25000     0.105863    -0.040172     0.078821
 9.72E-07     0.054808    -4.465523
0.50000     0.105863    -0.040172     0.078821
 9.72E-07     -0.013787    -4.420564
0.75000     0.105863    -0.040172     0.078821
 9.72E-07     -0.082382    -4.385604
1.00000     0.105863    -0.040172     0.078821
 9.72E-07     -0.150977    -4.350644

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.105863     0.040172    -0.078821
-9.72E-07     -0.123402     4.490483
0.25000    -0.105863     0.040172    -0.078821
-9.72E-07     -0.054808     4.455523
0.50000    -0.105863     0.040172    -0.078821
-9.72E-07     0.013787     4.420564
0.75000    -0.105863     0.040172    -0.078821
-9.72E-07     0.082382     4.385604
1.00000    -0.105863     0.040172    -0.078821
-9.72E-07     0.150977     4.350644

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.105863     0.042540     0.154510
4.52E-06     0.261185     4.490483
0.25000     0.105863     0.042540     0.154510
4.52E-06     0.126721     4.455523
0.50000     0.105863     0.042540     0.154510
4.52E-06     0.013787     4.420564
0.75000     0.105863     0.042540     0.154510
4.52E-06     0.082382     4.385604
1.00000     0.105863     0.042540     0.154510
4.52E-06     0.150977     4.350644

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.108122    -0.049926    -0.088511
-6.10E-06     -0.159488    -4.490483
0.25000    -0.108122    -0.049926    -0.088511
-6.10E-06     -0.082460    -4.455523
0.50000    -0.108122    -0.049926    -0.088511
-6.10E-06     -0.013787    -4.420564
0.75000    -0.108122    -0.049926    -0.088511
-6.10E-06     -0.142207    -4.385604
1.00000    -0.108122    -0.049926    -0.088511
-6.10E-06     -0.276670    -4.350644

ELEM      386 ================== LENGTH
=     4.973234

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.098039     0.007175    -0.032644
 3.46E-06     -0.085373    -1.794561
0.25000     0.098039     0.007175    -0.032644
 3.46E-06     -0.045387    -1.803482
0.50000     0.098039     0.007175    -0.032644
 3.46E-06     -0.004801    -1.812402
0.75000     0.098039     0.007175    -0.032644
 3.46E-06     0.035786    -1.821323
1.00000     0.098039     0.007175    -0.032644
 3.46E-06     0.076372    -1.830244
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  743

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.101970     0.030615    -0.043107
-1.42E-05     -0.093827     3.709676
0.25000    -0.101970     0.030615    -0.043107
-1.42E-05     -0.040231     3.671612
0.50000    -0.101970     0.030615    -0.043107
-1.42E-05     0.013365     3.633548
0.75000    -0.101970     0.030615    -0.043107
-1.42E-05     0.066961     3.595483
1.00000    -0.101970     0.030615    -0.043107
-1.42E-05     0.120557     3.557419

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.001190    -0.088158     0.095325
 7.73E-06     0.226617    -2.395845
0.25000    -0.001190    -0.088158     0.095325
 7.73E-06     0.108098    -2.286236
0.50000    -0.001190    -0.088158     0.095325
 7.73E-06     -0.010420    -2.176628
0.75000    -0.001190    -0.088158     0.095325
 7.73E-06     -0.128939    -2.067020
1.00000    -0.001190    -0.088158     0.095325
 7.73E-06     -0.247458    -1.957412

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.003439     0.065586    -0.025423
 4.08E-06     -0.060809     0.626065
0.25000     0.003439     0.065586    -0.025423
 4.08E-06     -0.029200     0.544521
0.50000     0.003439     0.065586    -0.025423
 4.08E-06     0.002409     0.462977
0.75000     0.003439     0.065586    -0.025423
 4.08E-06     0.034017     0.381433
1.00000     0.003439     0.065586    -0.025423
 4.08E-06     0.065626     0.299889

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.002348    -0.018778     0.007602
-1.76E-06     0.018210    -0.179251
0.25000    -0.002348    -0.018778     0.007602
-1.76E-06     0.008759    -0.155905
0.50000    -0.002348    -0.018778     0.007602
-1.76E-06     -0.000693    -0.132558
0.75000    -0.002348    -0.018778     0.007602
-1.76E-06     -0.010144    -0.109212
1.00000    -0.002348    -0.018778     0.007602
-1.76E-06     -0.019596    -0.085865

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.004030     0.003560    -0.001753
 6.58E-07     -0.004220     0.033916
0.25000     0.004030     0.003560    -0.001753
 6.58E-07     -0.002040     0.029491
0.50000     0.004030     0.003560    -0.001753
 6.58E-07     0.000140     0.025065
0.75000     0.004030     0.003560    -0.001753
 6.58E-07     0.002320     0.020639
1.00000     0.004030     0.003560    -0.001753
 6.58E-07     0.004500     0.016213

LOAD   -2N+1- --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.094501    -0.099761     0.070284
 9.43E-06     0.158855    -4.369657
0.25000     0.094501    -0.099761     0.070284
 9.43E-06     0.071471    -4.245623
0.50000     0.094501    -0.099761     0.070284
 9.43E-06     -0.015914    -4.121589
0.75000     0.094501    -0.099761     0.070284
 9.43E-06     -0.103298    -3.997555
1.00000     0.094501    -0.099761     0.070284
 9.43E-06     -0.190682    -3.873521
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  744

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.094501     0.099761    -0.070284
-9.43E-06     -0.158855     4.369657
0.25000    -0.094501     0.099761    -0.070284
-9.43E-06     -0.071471     4.245623
0.50000    -0.094501     0.099761    -0.070284
-9.43E-06     0.015914     4.121589
0.75000    -0.094501     0.099761    -0.070284
-9.43E-06     0.103298     3.997555
1.00000    -0.094501     0.099761    -0.070284
-9.43E-06     0.190682     3.873521

COMB  SETTLE -------------------- MAX

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.098039     0.099761     0.095325
9.43E-06     0.226617     4.369657
0.25000     0.098039     0.099761     0.095325
9.43E-06     0.108098     4.245623
0.50000     0.098039     0.099761     0.095325
9.43E-06     0.015914     4.121589
0.75000     0.098039     0.099761     0.095325
9.43E-06     0.103298     3.997555
1.00000     0.098039     0.099761     0.095325
9.43E-06     0.190682     3.873521

COMB  SETTLE -------------------- MIN

REL DIST          P          V2          V3
       T          M2          M3
0.00000    -0.101970    -0.099761    -0.070284
-1.42E-05     -0.158855    -4.369657
0.25000    -0.101970    -0.099761    -0.070284
-1.42E-05     -0.071471    -4.245623
0.50000    -0.101970    -0.099761    -0.070284
-1.42E-05     -0.015914    -4.121589
0.75000    -0.101970    -0.099761    -0.070284
-1.42E-05     -0.128939    -3.997555
1.00000    -0.101970    -0.099761    -0.070284
-1.42E-05     -0.247458    -3.873521

ELEM      387 ================== LENGTH
=     4.972333

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2          M3
0.00000     0.099028    -0.051227    -0.019752
 5.71E-06     -0.054747    -1.822350
0.25000     0.099028    -0.051227    -0.019752
 5.71E-06     -0.030193    -1.758670
0.50000     0.099028    -0.051227    -0.019752
 5.71E-06     -0.005640    -1.694991
```

0.75000	0.099028	-0.051227	-0.019752
5.71E-06	0.018914	-1.631312	
1.00000	0.099028	-0.051227	-0.019752
5.71E-06	0.043468	-1.567632	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.094021	0.149793	-0.072766
-1.90E-05	-0.170252	3.574918	
0.25000	-0.094021	0.149793	-0.072766
-1.90E-05	-0.079798	3.388713	
0.50000	-0.094021	0.149793	-0.072766
-1.90E-05	0.010656	3.202508	
0.75000	-0.094021	0.149793	-0.072766
-1.90E-05	0.101109	3.016302	
1.00000	-0.094021	0.149793	-0.072766
-1.90E-05	0.191563	2.830097	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.014092	-0.162822	0.114717
1.03E-05	0.279914	-1.989151	
0.25000	-0.014092	-0.162822	0.114717
1.03E-05	0.137311	-1.786750	
0.50000	-0.014092	-0.162822	0.114717
1.03E-05	-0.005292	-1.584349	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
745

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.014092	-0.162822	0.114717
1.03E-05	-0.147895	-1.381947	
1.00000	-0.014092	-0.162822	0.114717
1.03E-05	-0.290498	-1.179546	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.007496	0.083647	-0.028820
4.15E-06	-0.071291	0.308128	
0.25000	0.007496	0.083647	-0.028820
4.15E-06	-0.035466	0.204148	
0.50000	0.007496	0.083647	-0.028820
4.15E-06	0.000360	0.100168	
0.75000	0.007496	0.083647	-0.028820
4.15E-06	0.036186	-0.003812	
1.00000	0.007496	0.083647	-0.028820
4.15E-06	0.072011	-0.107792	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.003709	-0.023881	0.008563
-1.90E-06	0.021184	-0.088319	
0.25000	-0.003709	-0.023881	0.008563
-1.90E-06	0.010540	-0.058634	
0.50000	-0.003709	-0.023881	0.008563
-1.90E-06	-0.000104	-0.028948	
0.75000	-0.003709	-0.023881	0.008563
-1.90E-06	-0.010748	0.000738	
1.00000	-0.003709	-0.023881	0.008563
-1.90E-06	-0.021392	0.030424	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.005298	0.004490	-0.001942
7.59E-07	-0.004808	0.016773	
0.25000	0.005298	0.004490	-0.001942
7.59E-07	-0.002394	0.011193	
0.50000	0.005298	0.004490	-0.001942
7.59E-07	1.98E-05	0.005612	
0.75000	0.005298	0.004490	-0.001942
7.59E-07	0.002434	3.09E-05	
1.00000	0.005298	0.004490	-0.001942
7.59E-07	0.004848	-0.005550	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.081227	-0.237929	0.103527
1.41E-05	0.246351	-3.899820	
0.25000	0.081227	-0.237929	0.103527
1.41E-05	0.117658	-3.604054	
0.50000	0.081227	-0.237929	0.103527
1.41E-05	-0.011036	-3.308287	
0.75000	0.081227	-0.237929	0.103527
1.41E-05	-0.139729	-3.012521	
1.00000	0.081227	-0.237929	0.103527
1.41E-05	-0.268422	-2.716755	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.081227	0.237929	-0.103527
-1.41E-05	-0.246351	3.899820	
0.25000	-0.081227	0.237929	-0.103527
-1.41E-05	-0.117658	3.604054	
0.50000	-0.081227	0.237929	-0.103527
-1.41E-05	0.011036	3.308287	
0.75000	-0.081227	0.237929	-0.103527
-1.41E-05	0.139729	3.012521	
1.00000	-0.081227	0.237929	-0.103527
-1.41E-05	0.268422	2.716755	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.099028	0.237929	0.114717
1.41E-05	0.279914	3.899820	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
746

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.099028	0.237929	0.114717
1.41E-05	0.137311	3.604054	
0.50000	0.099028	0.237929	0.114717
1.41E-05	0.011036	3.308287	
0.75000	0.099028	0.237929	0.114717
1.41E-05	0.139729	3.016302	
1.00000	0.099028	0.237929	0.114717
1.41E-05	0.268422	2.830097	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.094021	-0.237929	-0.103527
-1.90E-05	-0.246351	-3.899820	
0.25000	-0.094021	-0.237929	-0.103527
-1.90E-05	-0.117658	-3.604054	
0.50000	-0.094021	-0.237929	-0.103527
-1.90E-05	-0.011036	-3.308287	
0.75000	-0.094021	-0.237929	-0.103527
-1.90E-05	-0.147895	-3.012521	
1.00000	-0.094021	-0.237929	-0.103527
-1.90E-05	-0.290498	-2.716755	

ELEM 388 ========== LENGTH
= 4.972697

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.100807	0.001248	-0.006681
4.63E-06	-0.021682	-1.563719	
0.25000	0.100807	0.001248	-0.006681
4.63E-06	-0.013376	-1.565271	
0.50000	0.100807	0.001248	-0.006681
4.63E-06	-0.005070	-1.566822	
0.75000	0.100807	0.001248	-0.006681
4.63E-06	0.003236	-1.568374	
1.00000	0.100807	0.001248	-0.006681
4.63E-06	0.011542	-1.569926	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.087469	0.068324	-0.096826
-1.77E-05	-0.231778	2.855588	
0.25000	-0.087469	0.068324	-0.096826
-1.77E-05	-0.111407	2.770648	
0.50000	-0.087469	0.068324	-0.096826
-1.77E-05	0.008965	2.685709	
0.75000	-0.087469	0.068324	-0.096826
-1.77E-05	0.129336	2.600770	
1.00000	-0.087469	0.068324	-0.096826
-1.77E-05	0.249707	2.515831	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.026237	-0.154539	0.125092
1.03E-05	0.307996	-1.215573	
0.25000	-0.026237	-0.154539	0.125092
1.03E-05	0.152485	-1.023454	
0.50000	-0.026237	-0.154539	0.125092
1.03E-05	-0.003027	-0.831336	
0.75000	-0.026237	-0.154539	0.125092
1.03E-05	-0.158538	-0.639217	
1.00000	-0.026237	-0.154539	0.125092
1.03E-05	-0.314049	-0.447099	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.011009	0.110605	-0.028040
3.81E-06	-0.070839	-0.099193	
0.25000	0.011009	0.110605	-0.028040
3.81E-06	-0.035981	-0.236694	
0.50000	0.011009	0.110605	-0.028040
3.81E-06	-0.001123	-0.374195	
0.75000	0.011009	0.110605	-0.028040
3.81E-06	0.033735	-0.511696	
1.00000	0.011009	0.110605	-0.028040
3.81E-06	0.068593	-0.649197	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
747

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.005056	-0.031558	0.008366
-1.87E-06	0.021109	0.027865	
0.25000	-0.005056	-0.031558	0.008366
-1.87E-06	0.010709	0.067097	
0.50000	-0.005056	-0.031558	0.008366
-1.87E-06	0.000309	0.106329	
0.75000	-0.005056	-0.031558	0.008366
-1.87E-06	-0.010091	0.145561	
1.00000	-0.005056	-0.031558	0.008366
-1.87E-06	-0.020491	0.184793	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.006946	0.005919	-0.001911
7.90E-07	-0.004806	-0.004968	
0.25000	0.006946	0.005919	-0.001911
7.90E-07	-0.002430	-0.012327	
0.50000	0.006946	0.005919	-0.001911
7.90E-07	5.46E-05	-0.019685	
0.75000	0.006946	0.005919	-0.001911
7.90E-07	0.002321	-0.027043	
1.00000	0.006946	0.005919	-0.001911
7.90E-07	0.004697	-0.034401	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.069514	-0.184848	0.126777
1.31E-05	0.307424	-2.751426	
0.25000	0.069514	-0.184848	0.126777
1.31E-05	0.149818	-2.521628	
0.50000	0.069514	-0.184848	0.126777
1.31E-05	-0.007787	-2.291829	
0.75000	0.069514	-0.184848	0.126777
1.31E-05	-0.165393	-2.062031	
1.00000	0.069514	-0.184848	0.126777
1.31E-05	-0.322998	-1.832233	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.069514	0.184848	-0.126777
-1.31E-05	-0.307424	2.751426	
0.25000	-0.069514	0.184848	-0.126777
-1.31E-05	-0.149818	2.521628	
0.50000	-0.069514	0.184848	-0.126777
-1.31E-05	0.007787	2.291829	
0.75000	-0.069514	0.184848	-0.126777
-1.31E-05	0.165393	2.062031	
1.00000	-0.069514	0.184848	-0.126777
-1.31E-05	0.322998	1.832233	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.100807	0.184848	0.126777
1.31E-05	0.307596	2.855588	
0.25000	0.100807	0.184848	0.126777
1.31E-05	0.152485	2.770648	
0.50000	0.100807	0.184848	0.126777
1.31E-05	0.008965	2.685709	
0.75000	0.100807	0.184848	0.126777
1.31E-05	0.165393	2.600770	
1.00000	0.100807	0.184848	0.126777
1.31E-05	0.322998	2.515831	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.087469	-0.184848	-0.126777
-1.77E-05	-0.307424	-2.751426	
0.25000	-0.087469	-0.184848	-0.126777
-1.77E-05	-0.149818	-2.521628	
0.50000	-0.087469	-0.184848	-0.126777
-1.77E-05	-0.007787	-2.291829	
0.75000	-0.087469	-0.184848	-0.126777
-1.77E-05	-0.165393	-2.062031	
1.00000	-0.087469	-0.184848	-0.126777
-1.77E-05	-0.322998	-1.832233	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
748

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 389 ========== LENGTH
= 4.973117

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.101597	-0.073261	0.004839
2.47E-06	0.007577	-1.569804	
0.25000	0.101597	-0.073261	0.004839
2.47E-06	0.001562	-1.478721	
0.50000	0.101597	-0.073261	0.004839
2.47E-06	-0.004454	-1.387637	
0.75000	0.101597	-0.073261	0.004839
2.47E-06	-0.010470	-1.296553	
1.00000	0.101597	-0.073261	0.004839
2.47E-06	-0.016486	-1.205469	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.081964	0.205218	-0.115894
-1.47E-05	-0.281462	2.547990	
0.25000	-0.081964	0.205218	-0.115894
-1.47E-05	-0.137373	2.292847	
0.50000	-0.081964	0.205218	-0.115894
-1.47E-05	0.006715	2.037703	
0.75000	-0.081964	0.205218	-0.115894
-1.47E-05	0.150804	1.782560	
1.00000	-0.081964	0.205218	-0.115894
-1.47E-05	0.294892	1.527416	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.035682	-0.215209	0.128983
1.05E-05	0.320751	-0.485359	
0.25000	-0.035682	-0.215209	0.128983
1.05E-05	0.160389	-0.217794	
0.50000	-0.035682	-0.215209	0.128983
1.05E-05	2.73E-05	0.049771	
0.75000	-0.035682	-0.215209	0.128983
1.05E-05	-0.160335	0.317336	
1.00000	-0.035682	-0.215209	0.128983
1.05E-05	-0.320697	0.584900	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.013183	0.108384	-0.023336
2.45E-06	0.060992	-0.641421	
0.25000	0.013183	0.108384	-0.023336
2.45E-06	-0.031978	-0.776173	
0.50000	0.013183	0.108384	-0.023336
2.45E-06	-0.002964	-0.910924	
0.75000	0.013183	0.108384	-0.023336
2.45E-06	0.026049	-1.045676	
1.00000	0.013183	0.108384	-0.023336
2.45E-06	0.055063	-1.180427	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.006160	-0.030952	0.007101
-1.52E-06	0.018483	0.182449	
0.25000	-0.006160	-0.030952	0.007101
-1.52E-06	0.009654	0.220930	
0.50000	-0.006160	-0.030952	0.007101
-1.52E-06	0.000825	0.259412	
0.75000	-0.006160	-0.030952	0.007101
-1.52E-06	-0.008004	0.297893	
1.00000	-0.006160	-0.030952	0.007101
-1.52E-06	-0.016832	0.336375	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.009025	0.005819	-0.001693
7.38E-07	-0.004358	-0.033854	
0.25000	0.009025	0.005819	-0.001693
7.38E-07	-0.002253	-0.041089	
0.50000	0.009025	0.005819	-0.001693
7.38E-07	-0.000149	-0.048324	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
749

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.009025	0.005819	-0.001693
7.38E-07	0.001955	-0.055559	
1.00000	0.009025	0.005819	-0.001693
7.38E-07	0.004060	-0.062794	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.059756	-0.319421	0.140923
1.15E-05	0.346811	-1.872715	
0.25000	0.059756	-0.319421	0.140923
1.15E-05	0.171605	-1.475584	
0.50000	0.059756	-0.319421	0.140923
1.15E-05	0.003602	-1.078454	
0.75000	0.059756	-0.319421	0.140923
1.15E-05	-0.178809	-0.681324	
1.00000	0.059756	-0.319421	0.140923
1.15E-05	-0.354015	-0.284194	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.059756	0.319421	-0.140923
-1.15E-05	-0.346811	1.872715	
0.25000	-0.059756	0.319421	-0.140923
-1.15E-05	-0.171605	1.475584	
0.50000	-0.059756	0.319421	-0.140923
-1.15E-05	-0.003602	1.078454	
0.75000	-0.059756	0.319421	-0.140923
-1.15E-05	0.178809	0.681324	
1.00000	-0.059756	0.319421	-0.140923
-1.15E-05	0.354015	0.284194	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.101597	0.319421	0.140923
1.15E-05	0.346811	2.547990	
0.25000	0.101597	0.319421	0.140923
1.15E-05	0.171605	2.292847	
0.50000	0.101597	0.319421	0.140923
1.15E-05	0.006715	2.037703	
0.75000	0.101597	0.319421	0.140923
1.15E-05	0.178809	1.782560	
1.00000	0.101597	0.319421	0.140923
1.15E-05	0.354015	1.527416	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.081964	-0.319421	-0.140923
-1.47E-05	-0.346811	-1.872715	
0.25000	-0.081964	-0.319421	-0.140923
-1.47E-05	-0.171605	-1.478721	
0.50000	-0.081964	-0.319421	-0.140923
-1.47E-05	-0.004454	-1.387637	
0.75000	-0.081964	-0.319421	-0.140923
-1.47E-05	-0.178809	-1.296553	
1.00000	-0.081964	-0.319421	-0.140923
-1.47E-05	-0.354015	-1.205469	

ELEM 390 ========== LENGTH
= 4.972665

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.100233	-0.073273	0.014009
3.11E-07	0.031554	-1.208441	
0.25000	0.100233	-0.073273	0.014009
3.11E-07	0.014238	-1.117351	
0.50000	0.100233	-0.073273	0.014009
3.11E-07	-0.003178	-1.026260	
0.75000	0.100233	-0.073273	0.014009
3.11E-07	-0.020594	-0.935169	
1.00000	0.100233	-0.073273	0.014009
3.11E-07	-0.038010	-0.844078	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
750

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074721	0.202564	-0.128088
-1.22E-05	-0.315118	1.564223	
0.25000	-0.074721	0.202564	-0.128088
-1.22E-05	-0.155884	1.312403	
0.50000	-0.074721	0.202564	-0.128088
-1.22E-05	0.003351	1.060582	
0.75000	-0.074721	0.202564	-0.128088
-1.22E-05	0.162585	0.808762	
1.00000	-0.074721	0.202564	-0.128088
-1.22E-05	0.321819	0.556941	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.044253	-0.209141	0.125073
1.20E-05	0.314418	0.546695	
0.25000	-0.044253	-0.209141	0.125073
1.20E-05	0.158932	0.806692	
0.50000	-0.044253	-0.209141	0.125073
1.20E-05	0.003446	1.066690	
0.75000	-0.044253	-0.209141	0.125073
1.20E-05	-0.152040	1.326687	
1.00000	-0.044253	-0.209141	0.125073
1.20E-05	-0.307526	1.586684	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.014136	0.103967	-0.014408
1.39E-07	-0.040512	-1.174720	
0.25000	0.014136	0.103967	-0.014408
1.39E-07	-0.022601	-1.303968	
0.50000	0.014136	0.103967	-0.014408
1.39E-07	-0.004689	-1.433217	
0.75000	0.014136	0.103967	-0.014408
1.39E-07	0.013222	-1.562465	
1.00000	0.014136	0.103967	-0.014408
1.39E-07	0.031134	-1.691713	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.007073	-0.029728	0.004684
-8.65E-07	0.012954	0.334586	
0.25000	-0.007073	-0.029728	0.004684
-8.65E-07	0.007131	0.371543	
0.50000	-0.007073	-0.029728	0.004684
-8.65E-07	0.001308	0.408501	
0.75000	-0.007073	-0.029728	0.004684
-8.65E-07	-0.004516	0.445458	
1.00000	-0.007073	-0.029728	0.004684
-8.65E-07	-0.010339	0.482415	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.011679	0.005612	-0.001271
6.14E-07	-0.003396	-0.062343	
0.25000	0.011679	0.005612	-0.001271
6.14E-07	-0.001817	-0.069319	
0.50000	0.011679	0.005612	-0.001271
6.14E-07	-0.000237	-0.076296	
0.75000	0.011679	0.005612	-0.001271
6.14E-07	0.001342	-0.083273	
1.00000	0.011679	0.005612	-0.001271
6.14E-07	0.002922	-0.090249	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.048907	-0.312143	0.143766
1.15E-05	0.359026	-0.327160	
0.25000	0.048907	-0.312143	0.143766
1.15E-05	0.180301	-0.060885	
0.50000	0.048907	-0.312143	0.143766
1.15E-05	0.001576	-0.448931	
0.75000	0.048907	-0.312143	0.143766
1.15E-05	-0.177150	0.836976	
1.00000	0.048907	-0.312143	0.143766
1.15E-05	-0.355875	1.225021	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
751

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.048907	0.312143	-0.143766
-1.15E-05	-0.359026	0.327160	
0.25000	-0.048907	0.312143	-0.143766
-1.15E-05	-0.180301	0.060885	
0.50000	-0.048907	0.312143	-0.143766
-1.15E-05	-0.001576	0.448931	
0.75000	-0.048907	0.312143	-0.143766
-1.15E-05	0.177150	-0.836976	
1.00000	-0.048907	0.312143	-0.143766
-1.15E-05	0.355875	-1.225021	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.100233	0.312143	0.143766
1.20E-05	0.359026	1.564223	
0.25000	0.100233	0.312143	0.143766
1.20E-05	0.180301	1.312403	
0.50000	0.100233	0.312143	0.143766
1.20E-05	0.003446	1.066690	
0.75000	0.100233	0.312143	0.143766
1.20E-05	0.177150	1.326687	
1.00000	0.100233	0.312143	0.143766
1.20E-05	0.355875	1.586684	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074721	-0.312143	-0.143766
-1.22E-05	-0.359026	-1.208441	
0.25000	-0.074721	-0.312143	-0.143766
-1.22E-05	-0.180301	-1.303968	
0.50000	-0.074721	-0.312143	-0.143766
-1.22E-05	-0.004689	-1.433217	
0.75000	-0.074721	-0.312143	-0.143766
-1.22E-05	-0.177150	-1.562465	
1.00000	-0.074721	-0.312143	-0.143766
-1.22E-05	-0.355875	-1.691713	

ELEM 391 ========== LENGTH

= 4.973388

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.096144	-0.076609	0.020118
	-1.25E-06	0.048083	-0.849263	
	0.25000	0.096144	-0.076609	0.020118
	-1.25E-06	0.023069	-0.754011	
	0.50000	0.096144	-0.076609	0.020118
	-1.25E-06	-0.001945	-0.658759	
	0.75000	0.096144	-0.076609	0.020118
	-1.25E-06	-0.026959	-0.563507	
	1.00000	0.096144	-0.076609	0.020118
	-1.25E-06	-0.051972	-0.468255	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.063912	0.208603	-0.132017
	-1.07E-05	-0.328301	0.596072	
	0.25000	-0.063912	0.208603	-0.132017
	-1.07E-05	-0.164158	0.336706	
	0.50000	-0.063912	0.208603	-0.132017
	-1.07E-05	-1.46E-05	0.077340	
	0.75000	-0.063912	0.208603	-0.132017
	-1.07E-05	0.164129	-0.182027	
	1.00000	-0.063912	0.208603	-0.132017
	-1.07E-05	0.328272	-0.441393	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.053353	-0.211732	0.112681
	1.44E-05	0.287169	1.550897	
	0.25000	-0.053353	-0.211732	0.112681
	1.44E-05	0.147068	1.814153	
	0.50000	-0.053353	-0.211732	0.112681
	1.44E-05	0.006967	2.077410	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
752

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
	0.75000	-0.053353	-0.211732	0.112681
	1.44E-05	-0.133134	2.340667	
	1.00000	-0.053353	-0.211732	0.112681
	1.44E-05	-0.273235	2.603924	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.013825	0.103858	-0.001253
	-2.88E-06	-0.009605	-1.689268	
	0.25000	0.013825	0.103858	-0.001253
	-2.88E-06	-0.008047	-1.818399	
	0.50000	0.013825	0.103858	-0.001253
	-2.88E-06	-0.006490	-1.947530	
	0.75000	0.013825	0.103858	-0.001253
	-2.88E-06	-0.004933	-2.076661	
	1.00000	0.013825	0.103858	-0.001253
	-2.88E-06	-0.003375	-2.205792	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.007805	-0.029787	0.001115
	7.60E-08	0.004586	0.481518	
	0.25000	-0.007805	-0.029787	0.001115
	7.60E-08	0.003199	0.518553	
	0.50000	-0.007805	-0.029787	0.001115
	7.60E-08	0.001812	0.555589	
	0.75000	-0.007805	-0.029787	0.001115
	7.60E-08	0.000425	0.592625	
	1.00000	-0.007805	-0.029787	0.001115
	7.60E-08	-0.000961	0.629660	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.015101	0.005668	-0.000644
	3.84E-07	-0.001932	-0.089956	
	0.25000	0.015101	0.005668	-0.000644
	3.84E-07	-0.001131	-0.097003	
	0.50000	0.015101	0.005668	-0.000644
	3.84E-07	-0.000330	-0.104050	
	0.75000	0.015101	0.005668	-0.000644
	3.84E-07	0.000471	-0.111097	
	1.00000	0.015101	0.005668	-0.000644
	3.84E-07	0.001272	-0.118144	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.034986	-0.318129	0.133914
	1.32E-05	0.339838	1.183152	
	0.25000	0.034986	-0.318129	0.133914
	1.32E-05	0.173336	1.578696	
	0.50000	0.034986	-0.318129	0.133914
	1.32E-05	0.006835	1.974240	
	0.75000	0.034986	-0.318129	0.133914
	1.32E-05	-0.159667	2.369785	
	1.00000	0.034986	-0.318129	0.133914
	1.32E-05	-0.326169	2.765329	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.034986	0.318129	-0.133914
	-1.32E-05	-0.339838	-1.183152	
	0.25000	-0.034986	0.318129	-0.133914
	-1.32E-05	-0.173336	-1.578696	
	0.50000	-0.034986	0.318129	-0.133914
	-1.32E-05	-0.006835	-1.974240	
	0.75000	-0.034986	0.318129	-0.133914
	-1.32E-05	0.159667	-2.369785	
	1.00000	-0.034986	0.318129	-0.133914
	-1.32E-05	0.326169	-2.765329	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.096144	0.318129	0.133914
	1.44E-05	0.339838	1.550897	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
753

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
	0.25000	0.096144	0.318129	0.133914
	1.44E-05	0.173336	1.814153	
	0.50000	0.096144	0.318129	0.133914
	1.44E-05	0.006967	2.077410	
	0.75000	0.096144	0.318129	0.133914
	1.44E-05	0.164129	2.369785	
	1.00000	0.096144	0.318129	0.133914
	1.44E-05	0.328272	2.765329	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.063912	-0.318129	-0.133914
	-1.32E-05	-0.339838	-1.689268	
	0.25000	-0.063912	-0.318129	-0.133914
	-1.32E-05	-0.173336	-1.818399	
	0.50000	-0.063912	-0.318129	-0.133914
	-1.32E-05	-0.006835	-1.974240	
	0.75000	-0.063912	-0.318129	-0.133914
	-1.32E-05	-0.159667	-2.369785	
	1.00000	-0.063912	-0.318129	-0.133914
	-1.32E-05	-0.326169	-2.765329	

ELEM 392 ========== LENGTH = 4.972139

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.089783	-0.078812	0.023190
	-2.21E-06	0.057011	-0.474781	
	0.25000	0.089783	-0.078812	0.023190
	-2.21E-06	0.028184	-0.376814	
	0.50000	0.089783	-0.078812	0.023190
	-2.21E-06	-0.000642	-0.278848	
	0.75000	0.089783	-0.078812	0.023190
	-2.21E-06	-0.029469	-0.180881	
	1.00000	0.089783	-0.078812	0.023190
	-2.21E-06	-0.058295	-0.082915	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.053603	0.151065	-0.128398
	1.03E-05	-0.322160	-0.402196	
	0.25000	-0.053603	0.151065	-0.128398
	1.03E-05	-0.162557	-0.589975	
	0.50000	-0.053603	0.151065	-0.128398
	1.03E-05	-0.002953	-0.777755	
	0.75000	-0.053603	0.151065	-0.128398
	1.03E-05	0.156651	-0.965534	
	1.00000	-0.053603	0.151065	-0.128398
	1.03E-05	0.316255	-1.153313	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.059783	-0.071707	0.093264
	1.76E-05	0.241124	2.572777	
	0.25000	-0.059783	-0.071707	0.093264
	1.76E-05	0.125193	2.661911	
	0.50000	-0.059783	-0.071707	0.093264
	1.76E-05	0.009262	2.751046	
	0.75000	-0.059783	-0.071707	0.093264
	1.76E-05	-0.106669	2.840180	
	1.00000	-0.059783	-0.071707	0.093264
	1.76E-05	-0.222600	2.929315	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.012409	-0.000612	0.015130
	-6.49E-06	0.030273	-2.207693	
	0.25000	0.012409	-0.000612	0.015130
	-6.49E-06	0.011466	-2.206932	
	0.50000	0.012409	-0.000612	0.015130
	-6.49E-06	-0.007341	-2.206172	
	0.75000	0.012409	-0.000612	0.015130
	-6.49E-06	-0.026148	-2.205412	
	1.00000	0.012409	-0.000612	0.015130
	-6.49E-06	-0.044955	-2.204651	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
754

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.008331	-0.000107	-0.003319
	1.34E-06	-0.006205	0.629959	
	0.25000	-0.008331	-0.000107	-0.003319
	1.34E-06	-0.002079	0.630093	
	0.50000	-0.008331	-0.000107	-0.003319
	1.34E-06	0.002047	0.630226	
	0.75000	-0.008331	-0.000107	-0.003319
	1.34E-06	0.006173	0.630359	
	1.00000	-0.008331	-0.000107	-0.003319
	1.34E-06	0.010299	0.630492	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.019525	0.000173	0.000133
	8.27E-09	-4.29E-05	-0.118067	
	0.25000	0.019525	0.000173	0.000133
	8.27E-09	-0.000208	-0.118282	
	0.50000	0.019525	0.000173	0.000133
	8.27E-09	-0.000373	-0.118497	
	0.75000	0.019525	0.000173	0.000133
	8.27E-09	-0.000538	-0.118712	
	1.00000	0.019525	0.000173	0.000133
	8.27E-09	-0.000703	-0.118927	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.021668	-0.150627	0.113136
	1.68E-05	0.291930	2.727956	
	0.25000	0.021668	-0.150627	0.113136
	1.68E-05	0.151299	2.915190	
	0.50000	0.021668	-0.150627	0.113136
	1.68E-05	0.010667	3.102424	
	0.75000	0.021668	-0.150627	0.113136
	1.68E-05	-0.129965	3.289658	
	1.00000	0.021668	-0.150627	0.113136
	1.68E-05	-0.270596	3.476892	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.021668	0.150627	-0.113136
	-1.68E-05	-0.291930	-2.727956	
	0.25000	-0.021668	0.150627	-0.113136
	-1.68E-05	-0.151299	-2.915190	
	0.50000	-0.021668	0.150627	-0.113136
	-1.68E-05	-0.010667	-3.102424	
	0.75000	-0.021668	0.150627	-0.113136
	-1.68E-05	0.129965	-3.289658	
	1.00000	-0.021668	0.150627	-0.113136
	-1.68E-05	0.270596	-3.476892	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.089783	0.151065	0.113136
	1.76E-05	0.291930	2.727956	
	0.25000	0.089783	0.151065	0.113136
	1.76E-05	0.151299	2.915190	
	0.50000	0.089783	0.151065	0.113136
	1.76E-05	0.010667	3.102424	
	0.75000	0.089783	0.151065	0.113136
	1.76E-05	0.156651	3.289658	
	1.00000	0.089783	0.151065	0.113136
	1.76E-05	0.316255	3.476892	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.059783	-0.150627	-0.128398
	-1.68E-05	-0.322160	-2.727956	
	0.25000	-0.059783	-0.150627	-0.128398
	-1.68E-05	-0.162557	-2.915190	
	0.50000	-0.059783	-0.150627	-0.128398
	-1.68E-05	-0.010667	-3.102424	
	0.75000	-0.059783	-0.150627	-0.128398
	-1.68E-05	-0.129965	-3.289658	
	1.00000	-0.059783	-0.150627	-0.128398
	-1.68E-05	-0.270596	-3.476892	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
755

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 393 ========== LENGTH = 4.973104

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.080459	-0.059202	0.023417
	-2.23E-06	0.058637	-0.089955	
	0.25000	0.080459	-0.059202	0.023417
	-2.23E-06	0.029523	-0.016351	
	0.50000	0.080459	-0.059202	0.023417
	-2.23E-06	0.000409	0.057253	
	0.75000	0.080459	-0.059202	0.023417
	-2.23E-06	-0.028704	0.130857	
	1.00000	0.080459	-0.059202	0.023417
	-2.23E-06	-0.057818	0.204461	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.038176	0.157770	-0.118347
	-1.01E-05	-0.299446	-1.116262	
	0.25000	-0.038176	0.157770	-0.118347
	-1.01E-05	-0.152308	-1.312414	
	0.50000	-0.038176	0.157770	-0.118347
	-1.01E-05	-0.005169	-1.508566	
	0.75000	-0.038176	0.157770	-0.118347
	-1.01E-05	0.141969	-1.704718	
	1.00000	-0.038176	0.157770	-0.118347
	-1.01E-05	0.289107	-1.900871	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.069413	-0.154500	0.068656
	1.91E-05	0.181748	2.904992	
	0.25000	-0.069413	-0.154500	0.068656
	1.91E-05	0.096389	3.097078	
	0.50000	-0.069413	-0.154500	0.068656
	1.91E-05	0.011030	3.289163	
	0.75000	-0.069413	-0.154500	0.068656
	1.91E-05	-0.074329	3.481249	
	1.00000	-0.069413	-0.154500	0.068656
	1.91E-05	-0.159688	3.673335	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.010532	0.073004	0.033558
	-8.77E-06	0.075325	-2.211898	
	0.25000	0.010532	0.073004	0.033558
	-8.77E-06	0.033604	-2.302662	
	0.50000	0.010532	0.073004	0.033558
	-8.77E-06	-0.008117	-2.393425	
	0.75000	0.010532	0.073004	0.033558
	-8.77E-06	-0.049838	-2.484189	
	1.00000	0.010532	0.073004	0.033558
	-8.77E-06	-0.091560	-2.574953	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.008732	-0.021228	-0.008286
	2.52E-06	-0.018343	0.632216	
	0.25000	-0.008732	-0.021228	-0.008286
	2.52E-06	-0.008042	0.658608	
	0.50000	-0.008732	-0.021228	-0.008286
	2.52E-06	0.002260	0.685000	
	0.75000	-0.008732	-0.021228	-0.008286
	2.52E-06	0.012561	0.711391	
	1.00000	-0.008732	-0.021228	-0.008286
	2.52E-06	0.022863	0.737783	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.025331	0.004155	0.001002
	-5.28E-07	0.002079	-0.119094	
	0.25000	0.025331	0.004155	0.001002
	-5.28E-07	0.000833	-0.124259	
	0.50000	0.025331	0.004155	0.001002
	-5.28E-07	-0.000413	-0.129425	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
756

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
	0.75000	0.025331	0.004155	0.001002
	-5.28E-07	-0.001658	-0.134591	
	1.00000	0.025331	0.004155	0.001002
	-5.28E-07	-0.002904	-0.139756	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.002313	-0.234929	0.083788
	1.94E-05	0.222041	3.447254	
	0.25000	0.002313	-0.234929	0.083788
	1.94E-05	0.117870	3.739335	
	0.50000	0.002313	-0.234929	0.083788
	1.94E-05	0.013699	4.031416	
	0.75000	0.002313	-0.234929	0.083788
	1.94E-05	0.090472	4.323498	
	1.00000	0.002313	-0.234929	0.083788
	1.94E-05	-0.194643	4.615579	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.002313	0.234929	-0.083788
	-1.94E-05	-0.222041	-3.447254	
	0.25000	-0.002313	0.234929	-0.083788
	-1.94E-05	-0.117870	-3.739335	
	0.50000	-0.002313	0.234929	-0.083788
	-1.94E-05	-0.013699	-4.031416	
	0.75000	-0.002313	0.234929	-0.083788
	-1.94E-05	0.090472	-4.323498	
	1.00000	-0.002313	0.234929	-0.083788
	-1.94E-05	0.194643	-4.615579	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.080459	0.234929	0.083788
	1.94E-05	0.222041	3.447254	
	0.25000	0.080459	0.234929	0.083788
	1.94E-05	0.117870	3.739335	
	0.50000	0.080459	0.234929	0.083788
	1.94E-05	0.013699	4.031416	
	0.75000	0.080459	0.234929	0.083788
	1.94E-05	0.141969	4.323498	
	1.00000	0.080459	0.234929	0.083788
	1.94E-05	0.289107	4.615579	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.069413	-0.234929	-0.118347
	-1.94E-05	-0.299446	-3.447254	
	0.25000	-0.069413	-0.234929	-0.118347
	-1.94E-05	-0.152308	-3.739335	
	0.50000	-0.069413	-0.234929	-0.118347
	-1.94E-05	-0.013699	-4.031416	
	0.75000	-0.069413	-0.234929	-0.118347
	-1.94E-05	-0.090472	-4.323498	
	1.00000	-0.069413	-0.234929	-0.118347
	-1.94E-05	-0.194643	-4.615579	

ELEM 394 ========== LENGTH = 4.972151

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.068961	-0.047275	0.020624
	-1.33E-06	0.053170	0.197782	
	0.25000	0.068961	-0.047275	0.020624
	-1.33E-06	0.027533	0.256546	
	0.50000	0.068961	-0.047275	0.020624
	-1.33E-06	0.001897	0.315310	
	0.75000	0.068961	-0.047275	0.020624
	-1.33E-06	-0.023740	0.374074	
	1.00000	0.068961	-0.047275	0.020624
	-1.33E-06	-0.049377	0.432838	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
757

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.020967	0.086793	-0.099671
	-7.93E-06	-0.257924	-1.867949	
	0.25000	-0.020967	0.086793	-0.099671
	-7.93E-06	-0.134029	-1.975836	
	0.50000	-0.020967	0.086793	-0.099671
	-7.93E-06	-0.010134	-2.083723	
	0.75000	-0.020967	0.086793	-0.099671
	-7.93E-06	0.113761	-2.191610	
	1.00000	-0.020967	0.086793	-0.099671
	-7.93E-06	0.237656	-2.299497	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.081551	-0.033164	0.038651
	1.47E-05	0.109685	3.657125	
	0.25000	-0.081551	-0.033164	0.038651
	1.47E-05	0.061641	3.698349	
	0.50000	-0.081551	-0.033164	0.038651
	1.47E-05	0.013597	3.739573	
	0.75000	-0.081551	-0.033164	0.038651
	1.47E-05	-0.034447	3.780797	
	1.00000	-0.081551	-0.033164	0.038651
	1.47E-05	-0.082491	3.822021	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.009792	-0.007797	0.051710
	-7.31E-06	0.121596	-2.587783	
	0.25000	0.009792	-0.007797	0.051710
	-7.31E-06	0.057318	-2.720091	
	0.50000	0.009792	-0.007797	0.051710
	-7.31E-06	-0.006959	-2.568400	
	0.75000	0.009792	-0.007797	0.051710
	-7.31E-06	-0.071237	-2.558708	
	1.00000	0.009792	-0.007797	0.051710
	-7.31E-06	-0.135515	-2.549017	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.009319	0.001131	-0.013194
	3.42E-06	-0.030819	0.741014	
	0.25000	-0.009319	0.001131	-0.013194
	3.42E-06	-0.014418	0.739608	
	0.50000	-0.009319	0.001131	-0.013194
	3.42E-06	0.001982	0.738202	
	0.75000	-0.009319	0.001131	-0.013194
	3.42E-06	0.018383	0.736796	
	1.00000	-0.009319	0.001131	-0.013194
	3.42E-06	0.034784	0.735389	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.033084	0.000311	0.001880
	-1.55E-06	0.004292	-0.140188	
	0.25000	0.033084	0.000311	0.001880
	-1.55E-06	0.001955	-0.140575	
	0.50000	0.033084	0.000311	0.001880
	-1.55E-06	-0.000382	-0.140962	
	0.75000	0.033084	0.000311	0.001880
	-1.55E-06	-0.002719	-0.141349	
	1.00000	0.033084	0.000311	0.001880
	-1.55E-06	-0.005056	-0.141735	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	-0.021909	-0.079308	0.046081
	1.68E-05	0.132036	4.595920	
	0.25000	-0.021909	-0.079308	0.046081
	1.68E-05	0.074756	4.694502	
	0.50000	-0.021909	-0.079308	0.046081
	1.68E-05	0.017476	4.793085	
	0.75000	-0.021909	-0.079308	0.046081
	1.68E-05	-0.039804	4.891667	
	1.00000	-0.021909	-0.079308	0.046081
	1.68E-05	-0.097085	4.990249	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
758

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.021909	0.079308	-0.046081
	-1.68E-05	-0.132036	-4.595920	
	0.25000	0.021909	0.079308	-0.046081
	-1.68E-05	-0.074756	-4.694502	
	0.50000	0.021909	0.079308	-0.046081
	-1.68E-05	-0.017476	-4.793085	
	0.75000	0.021909	0.079308	-0.046081
	-1.68E-05	0.039804	-4.891667	
	1.00000	0.021909	0.079308	-0.046081
	-1.68E-05	0.097085	-4.990249	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
	0.00000	0.068961	0.086793	0.051710
	1.68E-05	0.132036	4.595920	
	0.25000	0.068961	0.086793	0.051710
	1.68E-05	0.074756	4.694502	
	0.50000	0.068961	0.086793	0.051710
	1.68E-05	0.017476	4.793085	
	0.75000	0.068961	0.086793	0.051710
	1.68E-05	0.113761	4.891667	
	1.00000	0.068961	0.086793	0.051710
	1.68E-05	0.237656	4.990249	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	

0.00000	-0.081551	-0.079308	-0.099671
-1.68E-05	-0.257924	-4.595920	
0.25000	-0.081551	-0.079308	-0.099671
-1.68E-05	-0.134029	-4.694502	
0.50000	-0.081551	-0.079308	-0.099671
-1.68E-05	-0.017476	-4.793085	
0.75000	-0.081551	-0.079308	-0.099671
-1.68E-05	-0.071237	-4.891667	
1.00000	-0.081551	-0.079308	-0.099671
-1.68E-05	-0.135515	-4.990249	

ELEM 395 ========== LENGTH = 3.481707

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.054988	-0.028881	0.033162
2.35E-07	0.060152	0.426255	
0.25000	0.054988	-0.028881	0.033162
2.35E-07	0.031287	0.451394	
0.50000	0.054988	-0.028881	0.033162
2.35E-07	0.002422	0.476533	
0.75000	0.054988	-0.028881	0.033162
2.35E-07	-0.026443	0.501672	
1.00000	0.054988	-0.028881	0.033162
2.35E-07	-0.055308	0.526811	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.002953	0.049586	-0.158663
-4.84E-06	-0.287146	-2.268076	
0.25000	-0.002953	0.049586	-0.158663
-4.84E-06	-0.149041	-2.311237	
0.50000	-0.002953	0.049586	-0.158663
-4.84E-06	-0.010937	-2.354398	
0.75000	-0.002953	0.049586	-0.158663
-4.84E-06	0.127168	-2.397559	
1.00000	-0.002953	0.049586	-0.158663
-4.84E-06	0.265272	-2.440721	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093686	0.003099	0.023568
6.46E-06	0.053071	3.814157	
0.25000	-0.093686	0.003099	0.023568
6.46E-06	0.032557	3.811460	
0.50000	-0.093686	0.003099	0.023568
6.46E-06	0.012043	3.808763	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 759

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.093686	0.003099	0.023568
6.46E-06	-0.008472	3.806066	
1.00000	-0.093686	0.003099	0.023568
6.46E-06	-0.028986	3.803369	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.008033	-0.030565	0.130564
-2.81E-06	0.222695	-2.570732	
0.25000	0.008033	-0.030565	0.130564
-2.81E-06	0.109049	-2.544127	
0.50000	0.008033	-0.030565	0.130564
-2.81E-06	-0.004597	-2.517523	
0.75000	0.008033	-0.030565	0.130564
-2.81E-06	-0.118244	-2.490918	
1.00000	0.008033	-0.030565	0.130564
-2.81E-06	-0.231890	-2.464314	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.009970	0.009966	-0.033772
4.30E-06	-0.057426	0.740955	
0.25000	-0.009970	0.009966	-0.033772
4.30E-06	-0.028030	0.732280	
0.50000	-0.009970	0.009966	-0.033772
4.30E-06	0.001366	0.723605	
0.75000	-0.009970	0.009966	-0.033772
4.30E-06	0.030763	0.714930	
1.00000	-0.009970	0.009966	-0.033772
4.30E-06	0.060159	0.706255	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.043588	-0.003205	0.005141
-3.35E-06	-0.142559	0.139554	
0.25000	0.043588	-0.003205	0.005141
-3.35E-06	0.004179	-0.139769	
0.50000	0.043588	-0.003205	0.005141
-3.35E-06	-0.000296	-0.136980	
0.75000	0.043588	-0.003205	0.005141
-3.35E-06	-0.004771	-0.134190	
1.00000	0.043588	-0.003205	0.005141
-3.35E-06	-0.009246	-0.131400	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.048668	-0.015816	0.022958
1.10E-05	0.055797	4.981367	
0.25000	-0.048668	-0.015816	0.022958
1.10E-05	0.035814	4.995134	
0.50000	-0.048668	-0.015816	0.022958
1.10E-05	0.015830	5.008901	
0.75000	-0.048668	-0.015816	0.022958
1.10E-05	-0.004153	5.022667	
1.00000	-0.048668	-0.015816	0.022958
1.10E-05	-0.024136	5.036434	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.048668	0.015816	-0.022958
-1.10E-05	-0.055797	-4.981367	
0.25000	0.048668	0.015816	-0.022958
-1.10E-05	-0.035814	-4.995134	
0.50000	0.048668	0.015816	-0.022958
-1.10E-05	-0.015830	-5.008901	
0.75000	0.048668	0.015816	-0.022958
-1.10E-05	0.004153	-5.022667	
1.00000	0.048668	0.015816	-0.022958
-1.10E-05	0.024136	-5.036434	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.054988	0.049586	0.130564
1.10E-05	0.222695	4.981367	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 760

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.054988	0.049586	0.130564
1.10E-05	0.109049	4.995134	
0.50000	0.054988	0.049586	0.130564
1.10E-05	0.015830	5.008901	
0.75000	0.054988	0.049586	0.130564
1.10E-05	-0.004153	5.022667	
1.00000	0.054988	0.049586	0.130564
1.10E-05	-0.024136	5.036434	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.093686	-0.030565	-0.158663
-1.10E-05	-0.287146	-4.981367	
0.25000	-0.093686	-0.030565	-0.158663
-1.10E-05	-0.149041	-4.995134	
0.50000	-0.093686	-0.030565	-0.158663
-1.10E-05	-0.015830	-5.008901	
0.75000	-0.093686	-0.030565	-0.158663
-1.10E-05	-0.118244	-5.022667	
1.00000	-0.093686	-0.030565	-0.158663
-1.10E-05	-0.231890	-5.036434	

ELEM 396 ========== LENGTH = 3.480352

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.039464	-0.005640	0.027432
2.08E-08	0.048673	0.520555	
0.25000	0.039464	-0.005640	0.027432
2.08E-08	0.024804	0.525462	
0.50000	0.039464	-0.005640	0.027432
2.08E-08	0.000936	0.530369	
0.75000	0.039464	-0.005640	0.027432
2.08E-08	-0.022932	0.535276	
1.00000	0.039464	-0.005640	0.027432
2.08E-08	-0.046800	0.540182	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.009427	0.029040	-0.132014
1.65E-06	-0.234114	-2.410686	
0.25000	0.009427	0.029040	-0.132014
1.65E-06	-0.119250	-2.435953	
0.50000	0.009427	0.029040	-0.132014
1.65E-06	-0.004386	-2.461221	
0.75000	0.009427	0.029040	-0.132014
1.65E-06	0.110478	-2.486488	
1.00000	0.009427	0.029040	-0.132014
1.65E-06	0.225342	-2.511755	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.094533	-0.003949	-0.018532
-6.19E-06	0.020343	3.802850	
0.25000	-0.094533	-0.003949	-0.018532
-6.19E-06	-0.004218	3.806285	
0.50000	-0.094533	-0.003949	-0.018532
-6.19E-06	0.011907	3.809721	
0.75000	-0.094533	-0.003949	-0.018532
-6.19E-06	0.028031	3.813157	
1.00000	-0.094533	-0.003949	-0.018532
-6.19E-06	0.044156	3.816593	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000951	-0.049866	0.157884
3.68E-06	0.263745	-2.494123	
0.25000	-0.000951	-0.049866	0.157884
3.68E-06	0.126372	-2.450735	
0.50000	-0.000951	-0.049866	0.157884
3.68E-06	-0.011001	-2.407347	
0.75000	-0.000951	-0.049866	0.157884
3.68E-06	-0.148375	-2.363959	
1.00000	-0.000951	-0.049866	0.157884
3.68E-06	-0.285748	-2.320571	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 761

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.010119	0.038731	-0.040828
4.36E-06	-0.068211	0.713975	
0.25000	-0.010119	0.038731	-0.040828
4.36E-06	-0.030267	0.680026	
0.50000	-0.010119	0.038731	-0.040828
4.36E-06	0.002837	0.646076	
0.75000	-0.010119	0.038731	-0.040828
4.36E-06	0.038361	0.612877	
1.00000	-0.010119	0.038731	-0.040828
4.36E-06	0.073884	0.579178	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.056712	-0.008316	0.006058
-3.51E-06	0.010250	-0.132571	
0.25000	0.056712	-0.008316	0.006058
-3.51E-06	0.004979	-0.125335	
0.50000	0.056712	-0.008316	0.006058
-3.51E-06	-0.000292	-0.118099	
0.75000	0.056712	-0.008316	0.006058
-3.51E-06	-0.005563	-0.110863	
1.00000	0.056712	-0.008316	0.006058
-3.51E-06	-0.010834	-0.103627	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.065188	0.029142	-0.031928
-1.81E-06	-0.039881	5.037379	
0.25000	-0.065188	0.029142	-0.031928
-1.81E-06	-0.012101	5.012023	
0.50000	-0.065188	0.029142	-0.031928
-1.81E-06	0.015679	4.986666	
0.75000	-0.065188	0.029142	-0.031928
-1.81E-06	0.043460	4.961310	
1.00000	-0.065188	0.029142	-0.031928
-1.81E-06	0.071240	4.935953	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.065188	-0.029142	0.031928
1.81E-06	0.039881	-5.037379	
0.25000	0.065188	-0.029142	0.031928
1.81E-06	0.012101	-5.012023	
0.50000	0.065188	-0.029142	0.031928
1.81E-06	-0.015679	-4.986666	
0.75000	0.065188	-0.029142	0.031928
1.81E-06	-0.043460	-4.961310	
1.00000	0.065188	-0.029142	0.031928
1.81E-06	-0.071240	-4.935953	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.065188	0.038731	0.157884
4.36E-06	0.263745	5.037379	
0.25000	0.065188	0.038731	0.157884
4.36E-06	0.126372	5.012023	
0.50000	0.065188	0.038731	0.157884
4.36E-06	0.015679	4.986666	
0.75000	0.065188	0.038731	0.157884
4.36E-06	0.110478	4.961310	
1.00000	0.065188	0.038731	0.157884
4.36E-06	0.225342	4.935953	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.094533	-0.049866	-0.132014
-6.19E-06	-0.234114	-5.037379	
0.25000	-0.094533	-0.049866	-0.132014
-6.19E-06	-0.119250	-5.012023	
0.50000	-0.094533	-0.049866	-0.132014
-6.19E-06	-0.015679	-4.986666	
0.75000	-0.094533	-0.049866	-0.132014
-6.19E-06	-0.148375	-4.961310	
1.00000	-0.094533	-0.049866	-0.132014
-6.19E-06	-0.285748	-4.935953	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 762

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 397 ========== LENGTH = 4.973376

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.027505	-0.001616	0.010973
-1.42E-06	0.026713	0.535657	
0.25000	0.027505	-0.001616	0.010973
-1.42E-06	0.015069	0.537666	
0.50000	0.027505	-0.001616	0.010973
-1.42E-06	0.001426	0.539675	
0.75000	0.027505	-0.001616	0.010973
-1.42E-06	-0.012218	0.541684	
1.00000	0.027505	-0.001616	0.010973
-1.42E-06	-0.025861	0.543693	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.014435	0.008523	-0.052784
6.80E-06	-0.137948	-2.490075	
0.25000	0.014435	0.008523	-0.052784
6.80E-06	-0.072319	-2.500672	
0.50000	0.014435	0.008523	-0.052784
6.80E-06	-0.006690	-2.511268	
0.75000	0.014435	0.008523	-0.052784
6.80E-06	0.058939	-2.521865	
1.00000	0.014435	0.008523	-0.052784
6.80E-06	0.124569	-2.532462	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.084619	0.030587	-0.035947
-1.48E-05	-0.075856	3.824135	
0.25000	-0.084619	0.030587	-0.035947
-1.48E-05	-0.031162	3.786104	
0.50000	-0.084619	0.030587	-0.035947
-1.48E-05	0.013333	3.748074	
0.75000	-0.084619	0.030587	-0.035947
-1.48E-05	0.058227	3.710044	
1.00000	-0.084619	0.030587	-0.035947
-1.48E-05	0.102921	3.672013	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.015920	-0.087406	0.099352
7.52E-06	0.236772	-2.352186	
0.25000	-0.015920	-0.087406	0.099352
7.52E-06	0.113244	-2.243509	
0.50000	-0.015920	-0.087406	0.099352
7.52E-06	-0.010285	-2.134833	
0.75000	-0.015920	-0.087406	0.099352
7.52E-06	-0.133813	-2.026157	
1.00000	-0.015920	-0.087406	0.099352
7.52E-06	-0.257341	-1.917480	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.009139	0.060713	-0.024965
3.75E-06	-0.059907	0.587249	
0.25000	-0.009139	0.060713	-0.024965
3.75E-06	-0.024666	0.511781	
0.50000	-0.009139	0.060713	-0.024965
3.75E-06	0.002174	0.436274	
0.75000	-0.009139	0.060713	-0.024965
3.75E-06	0.033215	0.360786	
1.00000	-0.009139	0.060713	-0.024965
3.75E-06	0.064255	0.285299	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.067737	-0.010801	0.003372
-1.84E-06	0.008226	-0.164780	
0.25000	0.067737	-0.010801	0.003372
-1.84E-06	0.004034	-0.091350	
0.50000	0.067737	-0.010801	0.003372
-1.84E-06	-0.000158	-0.077921	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 763

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.067737	-0.010801	0.003372
-1.84E-06	-0.004350	-0.064492	
1.00000	0.067737	-0.010801	0.003372
-1.84E-06	-0.008542	-0.051063	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.066252	0.089685	-0.049939
-1.25E-05	-0.051050	4.947040	
0.25000	-0.066252	0.089685	-0.049939
-1.25E-05	-0.044959	4.835531	
0.50000	-0.066252	0.089685	-0.049939
-1.25E-05	0.017132	4.724023	
0.75000	-0.066252	0.089685	-0.049939
-1.25E-05	0.079224	4.612514	
1.00000	-0.066252	0.089685	-0.049939
-1.25E-05	0.141315	4.501005	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.066252	-0.089685	0.049939
1.25E-05	0.107050	-4.947040	
0.25000	0.066252	-0.089685	0.049939
1.25E-05	0.044959	-4.835531	
0.50000	0.066252	-0.089685	0.049939
1.25E-05	-0.017132	-4.724023	
0.75000	0.066252	-0.089685	0.049939
1.25E-05	-0.079224	-4.612514	
1.00000	0.066252	-0.089685	0.049939
1.25E-05	-0.141315	-4.501005	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.067737	0.089685	0.099352
1.25E-05	0.236772	4.947040	
0.25000	0.067737	0.089685	0.099352
1.25E-05	0.113244	4.835531	
0.50000	0.067737	0.089685	0.099352
1.25E-05	0.017132	4.724023	
0.75000	0.067737	0.089685	0.099352
1.25E-05	0.079224	4.612514	
1.00000	0.067737	0.089685	0.099352
1.25E-05	0.141315	4.501005	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.084619	-0.089685	-0.052784
-1.48E-05	-0.137948	-4.947040	
0.25000	-0.084619	-0.089685	-0.052784
-1.48E-05	-0.072319	-4.835531	
0.50000	-0.084619	-0.089685	-0.052784
-1.48E-05	-0.017132	-4.724023	
0.75000	-0.084619	-0.089685	-0.052784
-1.48E-05	-0.133813	-4.612514	
1.00000	-0.084619	-0.089685	-0.052784
-1.48E-05	-0.257341	-4.501005	

ELEM 398 ========== LENGTH = 4.972851

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.018763	0.015504	0.007313
-1.85E-06	0.019858	0.540917	
0.25000	0.018763	0.015504	0.007313
-1.85E-06	0.010765	0.521643	
0.50000	0.018763	0.015504	0.007313
-1.85E-06	0.001673	0.502368	
0.75000	0.018763	0.015504	0.007313
-1.85E-06	-0.007419	0.483094	
1.00000	0.018763	0.015504	0.007313
-1.85E-06	-0.016511	0.463820	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 764

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.017369	-0.071840	-0.035222
8.71E-06	-0.095474	-2.518536	
0.25000	0.017369	-0.071840	-0.035222
8.71E-06	-0.051686	-2.429724	
0.50000	0.017369	-0.071840	-0.035222
8.71E-06	-0.007898	-2.340412	
0.75000	0.017369	-0.071840	-0.035222
8.71E-06	0.035890	-2.251100	
1.00000	0.017369	-0.071840	-0.035222
8.71E-06	0.079678	-2.161787	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.073431	0.152805	-0.065898
-1.95E-05	-0.152807	3.687092	
0.25000	-0.073431	0.152805	-0.065898
-1.95E-05	-0.070882	3.497124	
0.50000	-0.073431	0.152805	-0.065898
-1.95E-05	0.011042	3.307155	
0.75000	-0.073431	0.152805	-0.065898
-1.95E-05	0.092967	3.117187	
1.00000	-0.073431	0.152805	-0.065898
-1.95E-05	0.174892	2.927218	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.031561	-0.158706	0.118382
9.98E-06	0.289083	-1.950210	
0.25000	-0.031561	-0.158706	0.118382
9.98E-06	0.141909	-1.752905	
0.50000	-0.031561	-0.158706	0.118382
9.98E-06	-0.005265	-1.555599	
0.75000	-0.031561	-0.158706	0.118382
9.98E-06	-0.152439	-1.358293	
1.00000	-0.031561	-0.158706	0.118382
9.98E-06	-0.299613	-1.160988	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.007618	0.076112	-0.027942
3.78E-06	-0.069187	0.293317	
0.25000	-0.007618	0.076112	-0.027942
3.78E-06	-0.034449	0.198933	
0.50000	-0.007618	0.076112	-0.027942
3.78E-06	0.000289	0.104070	
0.75000	-0.007618	0.076112	-0.027942
3.78E-06	0.035027	0.009446	
1.00000	-0.007618	0.076112	-0.027942
3.78E-06	0.069765	-0.085177	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.076478	-0.013874	0.003366
-1.09E-06	0.008528	-0.052080	
0.25000	0.076478	-0.013874	0.003366
-1.09E-06	0.004343	-0.034831	
0.50000	0.076478	-0.013874	0.003366
-1.09E-06	0.000158	-0.017583	
0.75000	0.076478	-0.013874	0.003366
-1.09E-06	-0.004026	-0.000335	
1.00000	0.076478	-0.013874	0.003366
-1.09E-06	-0.008211	0.016914	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.062286	0.244420	-0.086526
-1.76E-05	-0.202137	4.521326	
0.25000	-0.062286	0.244420	-0.086526
-1.76E-05	-0.094566	4.217460	
0.50000	-0.062286	0.244420	-0.086526
-1.76E-05	0.013005	3.913594	
0.75000	-0.062286	0.244420	-0.086526
-1.76E-05	0.120575	3.609727	
1.00000	-0.062286	0.244420	-0.086526
-1.76E-05	0.228146	3.305861	

Program SAP2000 Nonlinear Version 7.42 File:하행S11-S1504.OUT

Page 765

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.062286	-0.244420	0.086526
1.76E-05	0.202137	-4.521326	
0.25000	0.062286	-0.244420	0.086526
1.76E-05	0.094566	-4.217460	
0.50000	0.062286	-0.244420	0.086526
1.76E-05	0.013005	-3.913594	
0.75000	0.062286	-0.244420	0.086526
1.76E-05	-0.120575	-3.609727	
1.00000	0.062286	-0.244420	0.086526
1.76E-05	-0.228146	-3.305861	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.076478	0.244420	0.118382
1.76E-05	0.289083	4.521326	
0.25000	0.076478	0.244420	0.118382

```
 1.76E-05    0.141909    4.217460
 0.50000     0.076478    0.244420     0.118382
 1.76E-05    0.013005    3.913594
 0.75000     0.076478    0.244420     0.118382
 1.76E-05    0.120175    3.609727
 1.00000     0.076478    0.244420     0.118382
 1.76E-05    0.228146    3.305861

 COMB  SETTLE ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.073431   -0.244420   -0.086526
-1.95E-05   -0.202137   -4.521326
 0.25000    -0.073431   -0.244420   -0.086526
-1.95E-05   -0.094566   -4.217460
 0.50000    -0.073431   -0.244420   -0.086526
-1.95E-05   -0.013005   -3.913594
 0.75000    -0.073431   -0.244420   -0.086526
-1.95E-05   -0.152439   -3.609727
 1.00000    -0.073431   -0.244420   -0.086526
-1.95E-05   -0.299613   -3.305861

 ELEM      399 ================== LENGTH
=     4.972465

 LOAD      -A1 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.012137   -0.007470    0.003493
-1.34E-06    0.010260    0.462192
 0.25000     0.012137   -0.007470    0.003493
-1.34E-06    0.005917    0.471478
 0.50000     0.012137   -0.007470    0.003493
-1.34E-06    0.001575    0.480764
 0.75000     0.012137   -0.007470    0.003493
-1.34E-06   -0.002767    0.490051
 1.00000     0.012137   -0.007470    0.003493
-1.34E-06   -0.007110    0.499337

 LOAD      -P1 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.021132    0.034983   -0.016931
 6.52E-06   -0.049513   -2.153883
 0.25000     0.021132    0.034983   -0.016931
 6.52E-06   -0.028466   -2.197371
 0.50000     0.021132    0.034983   -0.016931
 6.52E-06   -0.007419   -2.240860
 0.75000     0.021132    0.034983   -0.016931
 6.52E-06    0.013627   -2.284348
 1.00000     0.021132    0.034983   -0.016931
 6.52E-06    0.034674   -2.327836

 LOAD      -P2 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.064712    0.026959   -0.090938
-1.79E-05   -0.216437    2.950552
 0.25000    -0.064712    0.026959   -0.090938
-1.79E-05   -0.103391    2.917039
 0.50000    -0.064712    0.026959   -0.090938
-1.79E-05    0.009655    2.883525
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL          SETTLEMENT          >
                                       766

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.75000    -0.064712    0.026959   -0.090938
-1.79E-05    0.122701    2.850012
 1.00000    -0.064712    0.026959   -0.090938
-1.79E-05    0.235747    2.816498

 LOAD      -P3 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.046075   -0.145144    0.128701
 1.00E-05    0.316878   -1.197994
 0.25000    -0.046075   -0.145144    0.128701
 1.00E-05    0.156888   -1.017563
 0.50000    -0.046075   -0.145144    0.128701
 1.00E-05   -0.003103   -0.837133
 0.75000    -0.046075   -0.145144    0.128701
 1.00E-05   -0.163094   -0.656702
 1.00000    -0.046075   -0.145144    0.128701
 1.00E-05   -0.323085   -0.476271

 LOAD      -P4 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.005965    0.111073   -0.027007
 3.43E-06   -0.068290   -0.076868
 0.25000    -0.005965    0.111073   -0.027007
 3.43E-06   -0.034718   -0.214944
 0.50000    -0.005965    0.111073   -0.027007
 3.43E-06   -0.001146   -0.353021
 0.75000    -0.005965    0.111073   -0.027007
 3.43E-06    0.032427   -0.491098
 1.00000    -0.005965    0.111073   -0.027007
 3.43E-06    0.065999   -0.629175

 LOAD      -P5 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.083483   -0.020402    0.002680
-7.63E-07    0.007102    0.016001
 0.25000     0.083483   -0.020402    0.002680
-7.63E-07    0.003770    0.041362
 0.50000     0.083483   -0.020402    0.002680
-7.63E-07    0.000438    0.066724
 0.75000     0.083483   -0.020402    0.002680
-7.63E-07   -0.002894    0.092085
 1.00000     0.083483   -0.020402    0.002680
-7.63E-07   -0.006227    0.117447

 LOAD  -2N+1- ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.058540    0.130562   -0.114451
-1.58E-05   -0.274467    3.335877
 0.25000    -0.058540    0.130562   -0.114451
-1.58E-05   -0.132191    3.173572
 0.50000    -0.058540    0.130562   -0.114451
-1.58E-05   -0.010085    3.011268
 0.75000    -0.058540    0.130562   -0.114451
-1.58E-05    0.152361    2.848964
 1.00000    -0.058540    0.130562   -0.114451
-1.58E-05    0.294637    2.686660

 LOAD  -2N+2- ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.058540   -0.130562    0.114451
 1.58E-05    0.274467   -3.335877
 0.25000     0.058540   -0.130562    0.114451
 1.58E-05    0.132191   -3.173572
 0.50000     0.058540   -0.130562    0.114451
 1.58E-05    0.010085   -3.011268
 0.75000     0.058540   -0.130562    0.114451
 1.58E-05   -0.152361   -2.848964
 1.00000     0.058540   -0.130562    0.114451
 1.58E-05   -0.294637   -2.686660

 COMB  SETTLE ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.083483    0.130562    0.128701
 1.58E-05    0.316878    3.335877
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL          SETTLEMENT          >
                                       767

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.25000     0.083483    0.130562    0.128701
 1.58E-05    0.156888    3.173572
 0.50000     0.083483    0.130562    0.128701
 1.58E-05    0.017068    3.011268
 0.75000     0.083483    0.130562    0.128701
 1.58E-05    0.152361    2.850012
 1.00000     0.083483    0.130562    0.128701
 1.58E-05    0.294637    2.816498

 COMB  SETTLE ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.064712   -0.145144   -0.114451
-1.79E-05   -0.274467   -3.335877
 0.25000    -0.064712   -0.145144   -0.114451
-1.79E-05   -0.132191   -3.173572
 0.50000    -0.064712   -0.145144   -0.114451
-1.79E-05   -0.010085   -3.011268
 0.75000    -0.064712   -0.145144   -0.114451
-1.79E-05   -0.163094   -2.848964
 1.00000    -0.064712   -0.145144   -0.114451
-1.79E-05   -0.323085   -2.686660

 ELEM      400 ================== LENGTH
=     4.973177

 LOAD      -A1 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.007287    0.023319   -4.91E-05
-5.71E-07    0.001329    0.498829
 0.25000     0.007287    0.023319   -4.91E-05
-5.71E-07    0.001390    0.469837
 0.50000     0.007287    0.023319   -4.91E-05
-5.71E-07    0.001451    0.440844
 0.75000     0.007287    0.023319   -4.91E-05
-5.71E-07    0.001512    0.411852
 1.00000     0.007287    0.023319   -4.91E-05
-5.71E-07    0.001573    0.382860

 LOAD      -P1 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.024115   -0.108622   -3.56E-05
 3.08E-06   -0.006915   -2.325331
 0.25000     0.024115   -0.108622   -3.56E-05
 3.08E-06   -0.006871   -2.190282
 0.50000     0.024115   -0.108622   -3.56E-05
 3.08E-06   -0.006826   -2.055233
 0.75000     0.024115   -0.108622   -3.56E-05
 3.08E-06   -0.006782   -1.920185
 1.00000     0.024115   -0.108622   -3.56E-05
 3.08E-06   -0.006738   -1.785136

 LOAD      -P2 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.057865    0.224987   -0.111630
-1.46E-05   -0.269924    2.846924
 0.25000    -0.057865    0.224987   -0.111630
-1.46E-05   -0.131135    2.567199
 0.50000    -0.057865    0.224987   -0.111630
-1.46E-05    0.007655    2.287474
 0.75000    -0.057865    0.224987   -0.111630
-1.46E-05    0.146444    2.007749
 1.00000    -0.057865    0.224987   -0.111630
-1.46E-05    0.285234    1.728024

 LOAD      -P3 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.057372   -0.228783    0.132618
 1.03E-05    0.329702   -0.515549
 0.25000    -0.057372   -0.228783    0.132618
 1.03E-05    0.164818   -0.231105
 0.50000    -0.057372   -0.228783    0.132618
 1.03E-05   -6.49E-05    0.053339
 0.75000    -0.057372   -0.228783    0.132618
 1.03E-05   -0.164948    0.337783
 1.00000    -0.057372   -0.228783    0.132618
 1.03E-05   -0.329831    0.622228
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL          SETTLEMENT          >
                                       768

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD      -P4 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.005015    0.109113   -0.022170
 2.14E-06   -0.058134   -0.621710
 0.25000    -0.005015    0.109113   -0.022170
 2.14E-06   -0.030570   -0.757369
 0.50000    -0.005015    0.109113   -0.022170
 2.14E-06   -0.003007   -0.893029
 0.75000    -0.005015    0.109113   -0.022170
 2.14E-06    0.024557   -1.028688
 1.00000    -0.005015    0.109113   -0.022170
 2.14E-06    0.052120   -1.164348

 LOAD      -P5 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.088850   -0.020014    0.001267
-4.14E-07    0.003942    0.116837
 0.25000     0.088850   -0.020014    0.001267
-4.14E-07    0.002367    0.141721
 0.50000     0.088850   -0.020014    0.001267
-4.14E-07    0.000792    0.166604
 0.75000     0.088850   -0.020014    0.001267
-4.14E-07   -0.000783    0.191488
 1.00000     0.088850   -0.020014    0.001267
-4.14E-07   -0.002359    0.216372

 LOAD  -2N+1- ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.055593    0.357419   -0.133849
-1.30E-05   -0.326729    2.724043
 0.25000    -0.055593    0.357419   -0.133849
-1.30E-05   -0.160315    2.279667
 0.50000    -0.055593    0.357419   -0.133849
-1.30E-05    0.006100    1.835290
 0.75000    -0.055593    0.357419   -0.133849
-1.30E-05    0.172514    1.390913
 1.00000    -0.055593    0.357419   -0.133849
-1.30E-05    0.338928    0.946536

 LOAD  -2N+2- ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.055593   -0.357419    0.133849
 1.30E-05    0.326729   -2.724043
 0.25000     0.055593   -0.357419    0.133849
 1.30E-05    0.160315   -2.279667
 0.50000     0.055593   -0.357419    0.133849
 1.30E-05   -0.006100   -1.835290
 0.75000     0.055593   -0.357419    0.133849
 1.30E-05   -0.172514   -1.390913
 1.00000     0.055593   -0.357419    0.133849
 1.30E-05   -0.338928   -0.946536

 COMB  SETTLE ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.088850    0.357419    0.133849
 1.30E-05    0.329702    2.846924
 0.25000     0.088850    0.357419    0.133849
 1.30E-05    0.164818    2.567199
 0.50000     0.088850    0.357419    0.133849
 1.30E-05    0.007655    2.287474
 0.75000     0.088850    0.357419    0.133849
 1.30E-05    0.172514    2.007749
 1.00000     0.088850    0.357419    0.133849
 1.30E-05    0.338928    1.728024

 COMB  SETTLE ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.057865   -0.357419   -0.133849
-1.46E-05   -0.326729   -2.724043
 0.25000    -0.057865   -0.357419   -0.133849
-1.46E-05   -0.160315   -2.279667
 0.50000    -0.057865   -0.357419   -0.133849
-1.46E-05   -0.006826   -2.055233
 0.75000    -0.057865   -0.357419   -0.133849
-1.46E-05   -0.172514   -1.920185
 1.00000    -0.057865   -0.357419   -0.133849
-1.46E-05   -0.338928   -1.785136
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL          SETTLEMENT          >
                                       769

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 ELEM      401 ================== LENGTH
=     4.972033

 LOAD      -A1 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.003861    0.023501   -0.002955
 1.13E-07   -0.006303    0.383322
 0.25000     0.003861    0.023501   -0.002955
 1.13E-07   -0.002630    0.354110
 0.50000     0.003861    0.023501   -0.002955
 1.13E-07    0.001044    0.324898
 0.75000     0.003861    0.023501   -0.002955
 1.13E-07    0.004717    0.295686
 1.00000     0.003861    0.023501   -0.002955
 1.13E-07    0.008391    0.266474

 LOAD      -P1 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.025599   -0.109561    0.013800
-8.85E-08    0.029397   -1.787235
 0.25000     0.025599   -0.109561    0.013800
-8.85E-08    0.012243   -1.651050
 0.50000     0.025599   -0.109561    0.013800
-8.85E-08   -0.004911   -1.514865
 0.75000     0.025599   -0.109561    0.013800
-8.85E-08   -0.022064   -1.378679
 1.00000     0.025599   -0.109561    0.013800
-8.85E-08   -0.039218   -1.242494

 LOAD      -P2 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.049998    0.222799   -0.125370
-1.20E-05   -0.307776    1.763622
 0.25000    -0.049998    0.222799   -0.125370
-1.20E-05   -0.151940    1.486682
 0.50000    -0.049998    0.222799   -0.125370
-1.20E-05    0.003896    1.209742
 0.75000    -0.049998    0.222799   -0.125370
-1.20E-05    0.159733    0.932801
 1.00000    -0.049998    0.222799   -0.125370
-1.20E-05    0.315569    0.655861

 LOAD      -P3 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.067255   -0.221235    0.128540
 1.20E-05    0.323149    0.582912
 0.25000    -0.067255   -0.221235    0.128540
 1.20E-05    0.163373    0.857909
 0.50000    -0.067255   -0.221235    0.128540
 1.20E-05    0.003596    1.132905
 0.75000    -0.067255   -0.221235    0.128540
 1.20E-05   -0.156180    1.407902
 1.00000    -0.067255   -0.221235    0.128540
 1.20E-05   -0.315957    1.682898

 LOAD      -P4 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.004701    0.103493   -0.013098
 1.76E-08   -0.037292   -1.158925
 0.25000    -0.004701    0.103493   -0.013098
 1.76E-08   -0.021011   -1.287568
 0.50000    -0.004701    0.103493   -0.013098
 1.76E-08   -0.004730   -1.416211
 0.75000    -0.004701    0.103493   -0.013098
 1.76E-08    0.011551   -1.544854
 1.00000    -0.004701    0.103493   -0.013098
 1.76E-08    0.027832   -1.673497

 LOAD      -P5 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.092494   -0.018997   -0.000917
 1.74E-08   -0.001175    0.216303
 0.25000     0.092494   -0.018997   -0.000917
 1.74E-08   -3.53E-05    0.239116
 0.50000     0.092494   -0.018997   -0.000917
 1.74E-08    0.001104    0.263530
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL          SETTLEMENT          >
                                       770

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 REL DIST          P           V2          V3
        T          M2          M3
 0.75000     0.092494   -0.018997   -0.000917
 1.74E-08    0.002244    0.287144
 1.00000     0.092494   -0.018997   -0.000917
 1.74E-08    0.003383    0.310757

 LOAD  -2N+1- ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.050837    0.349793   -0.141424
-1.19E-05   -0.351371    0.988020
 0.25000    -0.050837    0.349793   -0.141424
-1.19E-05   -0.175580    0.553225
 0.50000    -0.050837    0.349793   -0.141424
-1.19E-05    0.000210    0.118429
 0.75000    -0.050837    0.349793   -0.141424
-1.19E-05    0.176001   -0.316366
 1.00000    -0.050837    0.349793   -0.141424
-1.19E-05    0.351792   -0.751161

 LOAD  -2N+2- ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.050837   -0.349793    0.141424
 1.19E-05    0.351371   -0.988020
 0.25000     0.050837   -0.349793    0.141424
 1.19E-05    0.175580   -0.553225
 0.50000     0.050837   -0.349793    0.141424
 1.19E-05    0.000210   -0.118429
 0.75000     0.050837   -0.349793    0.141424
 1.19E-05   -0.176001    0.316366
 1.00000     0.050837   -0.349793    0.141424
 1.19E-05   -0.351792    0.751161

 COMB  SETTLE ------------------- MAX

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.092494    0.349793    0.141424
 1.20E-05    0.351371    1.763622
 0.25000     0.092494    0.349793    0.141424
 1.20E-05    0.175580    1.486682
 0.50000     0.092494    0.349793    0.141424
 1.20E-05    0.003896    1.209742
 0.75000     0.092494    0.349793    0.141424
 1.20E-05    0.176001    1.407902
 1.00000     0.092494    0.349793    0.141424
 1.20E-05    0.351792    1.682898

 COMB  SETTLE ------------------- MIN

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.067255   -0.349793   -0.141424
-1.20E-05   -0.351371   -1.787235
 0.25000    -0.067255   -0.349793   -0.141424
-1.20E-05   -0.175580   -1.651050
 0.50000    -0.067255   -0.349793   -0.141424
-1.20E-05   -0.004911   -1.514865
 0.75000    -0.067255   -0.349793   -0.141424
-1.20E-05   -0.176001   -1.544854
 1.00000    -0.067255   -0.349793   -0.141424
-1.20E-05   -0.351792   -1.673497

 ELEM      402 ================== LENGTH
=     4.973005

 LOAD      -A1 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.001568    0.024780   -0.004915
 5.89E-07   -0.011565    0.267675
 0.25000     0.001568    0.024780   -0.004915
 5.89E-07   -0.005455    0.236867
 0.50000     0.001568    0.024780   -0.004915
 5.89E-07    0.000655    0.206058
 0.75000     0.001568    0.024780   -0.004915
 5.89E-07    0.006765    0.175250
 1.00000     0.001568    0.024780   -0.004915
 5.89E-07    0.012875    0.144442
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL          SETTLEMENT          >
                                       771

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD      -P1 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.025429   -0.115526    0.023132
-2.35E-06    0.054433   -1.248130
 0.25000     0.025429   -0.115526    0.023132
-2.35E-06    0.025674   -1.104502
 0.50000     0.025429   -0.115526    0.023132
-2.35E-06   -0.003084   -0.960874
 0.75000     0.025429   -0.115526    0.023132
-2.35E-06   -0.031843   -0.817247
 1.00000     0.025429   -0.115526    0.023132
-2.35E-06   -0.060601   -0.673619

 LOAD      -P2 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.040871    0.230566   -0.129943
-1.03E-05   -0.322892    0.694285
 0.25000    -0.040871    0.230566   -0.129943
-1.03E-05   -0.161339    0.407634
 0.50000    -0.040871    0.230566   -0.129943
-1.03E-05    0.000213    0.120983
 0.75000    -0.040871    0.230566   -0.129943
-1.03E-05    0.161765   -0.165667
 1.00000    -0.040871    0.230566   -0.129943
-1.03E-05    0.323318   -0.452318

 LOAD      -P3 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.075635   -0.223559    0.115358
 1.44E-05    0.294156    1.646181
 0.25000    -0.075635   -0.223559    0.115358
 1.44E-05    0.150737    1.924121
 0.50000    -0.075635   -0.223559    0.115358
 1.44E-05    0.007319    2.202062
 0.75000    -0.075635   -0.223559    0.115358
 1.44E-05   -0.136100    2.480002
 1.00000    -0.075635   -0.223559    0.115358
 1.44E-05   -0.279518    2.757943

 LOAD      -P4 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.005248    0.102622    0.000219
-2.88E-06   -0.005994   -1.671463
 0.25000    -0.005248    0.102622    0.000219
-2.88E-06   -0.006266   -1.799048
 0.50000    -0.005248    0.102622    0.000219
-2.88E-06   -0.006538   -1.926633
 0.75000    -0.005248    0.102622    0.000219
-2.88E-06   -0.006811   -2.054218
 1.00000    -0.005248    0.102622    0.000219
-2.88E-06   -0.007083   -2.181803

 LOAD      -P5 ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.094757   -0.018883   -0.003850
 5.92E-07   -0.008139    0.311451
 0.25000     0.094757   -0.018883   -0.003850
 5.92E-07   -0.003352    0.334927
 0.50000     0.094757   -0.018883   -0.003850
 5.92E-07    0.001436    0.358404
 0.75000     0.094757   -0.018883   -0.003850
 5.92E-07    0.006223    0.381880
 1.00000     0.094757   -0.018883   -0.003850
 5.92E-07    0.011010    0.405356

 LOAD  -2N+1- ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000    -0.044551    0.357968   -0.134639
-1.26E-05   -0.340450   -0.709502
 0.25000    -0.044551    0.357968   -0.134639
-1.26E-05   -0.173060   -1.154547
 0.50000    -0.044551    0.357968   -0.134639
-1.26E-05   -0.005670   -1.599591
 0.75000    -0.044551    0.357968   -0.134639
-1.26E-05    0.161720   -2.044635
 1.00000    -0.044551    0.357968   -0.134639
-1.26E-05    0.329110   -2.489679
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<              UNEQUAL          SETTLEMENT          >
                                       772

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

 LOAD  -2N+2- ------------------

 REL DIST          P           V2          V3
        T          M2          M3
 0.00000     0.044551   -0.357968    0.134639
 1.26E-05    0.340450    0.709502
 0.25000     0.044551   -0.357968    0.134639
 1.26E-05    0.173060    1.154547
 0.50000     0.044551   -0.357968    0.134639
 1.26E-05    0.005670    1.599591
```

```
0.75000     0.044551    -0.357968     0.134639
 1.26E-05   -0.161720     2.044635
1.00000     0.044551    -0.357968     0.134639
 1.26E-05   -0.329110     2.489679

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.094757     0.357968     0.134639
1.44E-05     0.340450     1.646181
0.25000     0.094757     0.357968     0.134639
1.44E-05     0.173060     1.924121
0.50000     0.094757     0.357968     0.134639
1.44E-05     0.007319     2.202062
0.75000     0.094757     0.357968     0.134639
1.44E-05     0.161765     2.480002
1.00000     0.094757     0.357968     0.134639
1.44E-05     0.329110     2.757943

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.075635    -0.357968    -0.134639
-1.26E-05    -0.340450    -1.671463
0.25000    -0.075635    -0.357968    -0.134639
-1.26E-05    -0.173060    -1.799048
0.50000    -0.075635    -0.357968    -0.134639
-1.26E-05    -0.006538    -1.926633
0.75000    -0.075635    -0.357968    -0.134639
-1.26E-05    -0.161720    -2.054218
1.00000    -0.075635    -0.357968    -0.134639
-1.26E-05    -0.329110    -2.489679

ELEM      403 ================== LENGTH
=     4.973103

LOAD      -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.000161     0.025382    -0.005922
 8.75E-07    -0.014490     0.146087
0.25000     0.000161     0.025382    -0.005922
 8.75E-07    -0.007128     0.114530
0.50000     0.000161     0.025382    -0.005922
 8.75E-07     0.000234     0.082973
0.75000     0.000161     0.025382    -0.005922
 8.75E-07     0.007596     0.051416
1.00000     0.000161     0.025382    -0.005922
 8.75E-07     0.014959     0.019859

LOAD      -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.023829    -0.118354     0.027943
-3.73E-06     0.068377    -0.681376
0.25000     0.023829    -0.118354     0.027943
-3.73E-06     0.033635    -0.534230
0.50000     0.023829    -0.118354     0.027943
-3.73E-06    -0.001106    -0.387083
0.75000     0.023829    -0.118354     0.027943
-3.73E-06    -0.035848    -0.239936
1.00000     0.023829    -0.118354     0.027943
-3.73E-06    -0.070589    -0.092790

LOAD      -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.030540     0.149535    -0.126309
-9.89E-06    -0.315989    -0.413789
0.25000    -0.030540     0.149535    -0.126309
-9.89E-06    -0.159952    -0.599703
0.50000    -0.030540     0.149535    -0.126309
-9.89E-06    -0.002915    -0.785617
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         773

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    -0.030540     0.149535    -0.126309
-9.89E-06     0.154122    -0.971530
1.00000    -0.030540     0.149535    -0.126309
-9.89E-06     0.311159    -1.157444

LOAD      -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.082757    -0.030427     0.095155
 1.75E-05     0.245968     2.726321
0.25000    -0.082757    -0.030427     0.095155
 1.75E-05     0.127663     2.764151
0.50000    -0.082757    -0.030427     0.095155
 1.75E-05     0.009359     2.801980
0.75000    -0.082757    -0.030427     0.095155
 1.75E-05    -0.108945     2.839809
1.00000    -0.082757    -0.030427     0.095155
 1.75E-05    -0.227249     2.877639

LOAD      -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.006441    -0.032329     0.016397
-6.02E-06     0.033683    -2.184258
0.25000    -0.006441    -0.032329     0.016397
-6.02E-06     0.013297    -2.144064
0.50000    -0.006441    -0.032329     0.016397
-6.02E-06    -0.007089    -2.103870
0.75000    -0.006441    -0.032329     0.016397
-6.02E-06    -0.027475    -2.063676
1.00000    -0.006441    -0.032329     0.016397
-6.02E-06    -0.047861    -2.023482

LOAD      -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.095748     0.006193    -0.007265
 1.29E-06    -0.016548     0.407014
0.25000     0.095748     0.006193    -0.007265
 1.29E-06    -0.007516     0.399315
0.50000     0.095748     0.006193    -0.007265
 1.29E-06     0.001517     0.391616
0.75000     0.095748     0.006193    -0.007265
 1.29E-06     0.010549     0.383917
1.00000     0.095748     0.006193    -0.007265
 1.29E-06     0.019581     0.376218

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.036820     0.142589    -0.115834
-1.50E-05    -0.297796    -2.451959
0.25000    -0.036820     0.142589    -0.115834
-1.50E-05    -0.153783    -2.629236
0.50000    -0.036820     0.142589    -0.115834
-1.50E-05    -0.009770    -2.806513
0.75000    -0.036820     0.142589    -0.115834
-1.50E-05     0.134244    -2.983790
1.00000    -0.036820     0.142589    -0.115834
-1.50E-05     0.278257    -3.161067

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.036820    -0.142589     0.115834
 1.50E-05     0.297796     2.451959
0.25000     0.036820    -0.142589     0.115834
 1.50E-05     0.153783     2.629236
0.50000     0.036820    -0.142589     0.115834
 1.50E-05     0.009770     2.806513
0.75000     0.036820    -0.142589     0.115834
 1.50E-05    -0.134244     2.983790
1.00000     0.036820    -0.142589     0.115834
 1.50E-05    -0.278257     3.161067

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.095748     0.149535     0.115834
1.75E-05     0.297796     2.726321
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         774

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.25000     0.095748     0.149535     0.115834
1.75E-05     0.153783     2.764151
0.50000     0.095748     0.149535     0.115834
1.75E-05     0.009770     2.806513
0.75000     0.095748     0.149535     0.115834
1.75E-05     0.154122     2.983790
1.00000     0.095748     0.149535     0.115834
1.75E-05     0.311159     3.161067

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.082757    -0.142589    -0.126309
-1.50E-05    -0.316989    -2.451959
0.25000    -0.082757    -0.142589    -0.126309
-1.50E-05    -0.159952    -2.629236
0.50000    -0.082757    -0.142589    -0.126309
-1.50E-05    -0.009770    -2.806513
0.75000    -0.082757    -0.142589    -0.126309
-1.50E-05    -0.134244    -2.983790
1.00000    -0.082757    -0.142589    -0.126309
-1.50E-05    -0.278257    -3.161067

ELEM      404 ================== LENGTH
=     4.972327

LOAD      -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000584     0.017277    -0.006063
 9.47E-07    -0.015163     0.021674
0.25000    -0.000584     0.017277    -0.006063
 9.47E-07    -0.007626     0.000198
0.50000    -0.000584     0.017277    -0.006063
 9.47E-07    -8.91E-05    -0.021279
0.75000    -0.000584     0.017277    -0.006063
 9.47E-07     0.007448    -0.042755
1.00000    -0.000584     0.017277    -0.006063
 9.47E-07     0.014985    -0.064232

LOAD      -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.021187    -0.080559     0.028642
-4.10E-06     0.071623    -0.101356
0.25000     0.021187    -0.080559     0.028642
-4.10E-06     0.036018    -0.001215
0.50000     0.021187    -0.080559     0.028642
-4.10E-06     0.000414     0.098927
0.75000     0.021187    -0.080559     0.028642
-4.10E-06    -0.035190     0.199068
1.00000     0.021187    -0.080559     0.028642
-4.10E-06    -0.070795     0.299210

LOAD      -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.018674     0.159882    -0.116249
-9.79E-06    -0.294150    -1.120907
0.25000    -0.018674     0.159882    -0.116249
-9.79E-06    -0.149643    -1.319654
0.50000    -0.018674     0.159882    -0.116249
-9.79E-06    -0.005137    -1.518401
0.75000    -0.018674     0.159882    -0.116249
-9.79E-06     0.139370    -1.717148
1.00000    -0.018674     0.159882    -0.116249
-9.79E-06     0.283876    -1.915895

LOAD      -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.090488    -0.151765     0.070652
 1.92E-05     0.186409     2.852527
0.25000    -0.090488    -0.151765     0.070652
 1.92E-05     0.098583     3.041183
0.50000    -0.090488    -0.151765     0.070652
 1.92E-05     0.010756     3.229838
0.75000    -0.090488    -0.151765     0.070652
 1.92E-05    -0.077071     3.418494
1.00000    -0.090488    -0.151765     0.070652
 1.92E-05    -0.164898     3.607150
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         775

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.007356     0.067641     0.033880
-8.11E-06     0.076703    -2.030858
0.25000    -0.007356     0.067641     0.033880
-8.11E-06     0.034587    -2.114941
0.50000    -0.007356     0.067641     0.033880
-8.11E-06    -0.007529    -2.199025
0.75000    -0.007356     0.067641     0.033880
-8.11E-06    -0.049644    -2.283109
1.00000    -0.007356     0.067641     0.033880
-8.11E-06    -0.091760    -2.367193

LOAD      -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.095913    -0.012477    -0.010863
 1.90E-06    -0.025422     0.378920
0.25000     0.095913    -0.012477    -0.010863
 1.90E-06    -0.011918     0.394430
0.50000     0.095913    -0.012477    -0.010863
 1.90E-06     0.001585     0.409940
0.75000     0.095913    -0.012477    -0.010863
 1.90E-06     0.015089     0.425450
1.00000     0.095913    -0.012477    -0.010863
 1.90E-06     0.028592     0.440959

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.026613     0.244801    -0.088432
-1.69E-05    -0.232610    -3.130091
0.25000    -0.026613     0.244801    -0.088432
-1.69E-05    -0.122682    -3.434398
0.50000    -0.026613     0.244801    -0.088432
-1.69E-05    -0.012755    -3.738705
0.75000    -0.026613     0.244801    -0.088432
-1.69E-05     0.097173    -4.043012
1.00000    -0.026613     0.244801    -0.088432
-1.69E-05     0.207101    -4.347319

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.026613    -0.244801     0.088432
 1.69E-05     0.232610     3.130091
0.25000     0.026613    -0.244801     0.088432
 1.69E-05     0.122682     3.434398
0.50000     0.026613    -0.244801     0.088432
 1.69E-05     0.012755     3.738705
0.75000     0.026613    -0.244801     0.088432
 1.69E-05    -0.097173     4.043012
1.00000     0.026613    -0.244801     0.088432
 1.69E-05    -0.207101     4.347319

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.095913     0.244801     0.088432
1.92E-05     0.232610     3.130091
0.25000     0.095913     0.244801     0.088432
1.92E-05     0.122682     3.434398
0.50000     0.095913     0.244801     0.088432
1.92E-05     0.012755     3.738705
0.75000     0.095913     0.244801     0.088432
1.92E-05     0.139370     4.043012
1.00000     0.095913     0.244801     0.088432
1.92E-05     0.283876     4.347319

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.090488    -0.244801    -0.116249
-1.69E-05    -0.294150    -3.130091
0.25000    -0.090488    -0.244801    -0.116249
-1.69E-05    -0.149643    -3.434398
0.50000    -0.090488    -0.244801    -0.116249
-1.69E-05    -0.012755    -3.738705
0.75000    -0.090488    -0.244801    -0.116249
-1.69E-05    -0.097173    -4.043012
1.00000    -0.090488    -0.244801    -0.116249
-1.69E-05    -0.207101    -4.347319
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         776

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      405 ================== LENGTH
=     4.972676

LOAD      -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000848     0.013848    -0.005344
 9.08E-07    -0.013786    -0.062504
0.25000    -0.000848     0.013848    -0.005344
 9.08E-07    -0.007143    -0.079719
0.50000    -0.000848     0.013848    -0.005344
 9.08E-07    -0.000500    -0.096934
0.75000    -0.000848     0.013848    -0.005344
 9.08E-07     0.006143    -0.114150
1.00000    -0.000848     0.013848    -0.005344
 9.08E-07     0.012786    -0.131365

LOAD      -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.017864    -0.064547     0.025240
-3.96E-06     0.065109     0.291047
0.25000     0.017864    -0.064547     0.025240
-3.96E-06     0.033731     0.371289
0.50000     0.017864    -0.064547     0.025240
-3.96E-06     0.002354     0.451531
0.75000     0.017864    -0.064547     0.025240
-3.96E-06    -0.029024     0.531774
1.00000     0.017864    -0.064547     0.025240
-3.96E-06    -0.060402     0.612016

LOAD      -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.004667     0.089563    -0.097411
-7.11E-06    -0.252278     1.883789
0.25000    -0.004667     0.089563    -0.097411
-7.11E-06    -0.131180     1.995130
0.50000    -0.004667     0.089563    -0.097411
-7.11E-06    -0.010081     2.106472
0.75000    -0.004667     0.089563    -0.097411
-7.11E-06     0.111017     2.217813
1.00000    -0.004667     0.089563    -0.097411
-7.11E-06     0.232115     2.329154

LOAD      -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.101190    -0.032569     0.040976
 1.46E-05     0.115276     3.590601
0.25000    -0.101190    -0.032569     0.040976
 1.46E-05     0.064335     3.631089
0.50000    -0.101190    -0.032569     0.040976
 1.46E-05     0.013395     3.671577
0.75000    -0.101190    -0.032569     0.040976
 1.46E-05    -0.037546     3.712066
1.00000    -0.101190    -0.032569     0.040976
 1.46E-05    -0.088487     3.752554

LOAD      -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.006945    -0.007629     0.050624
-6.54E-06     0.119496    -2.380082
0.25000    -0.006945    -0.007629     0.050624
-6.54E-06     0.056561    -2.370598
0.50000    -0.006945    -0.007629     0.050624
-6.54E-06    -0.006373    -2.361114
0.75000    -0.006945    -0.007629     0.050624
-6.54E-06    -0.069308    -2.351631
1.00000    -0.006945    -0.007629     0.050624
-6.54E-06    -0.132243    -2.342147

LOAD      -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.095787     0.001334    -0.014087
 2.12E-06    -0.033817     0.444728
0.25000     0.095787     0.001334    -0.014087
 2.12E-06    -0.016305     0.443070
0.50000     0.095787     0.001334    -0.014087
 2.12E-06     0.001207     0.441412
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         777

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000     0.095787     0.001334    -0.014087
 2.12E-06     0.018719     0.439754
1.00000     0.095787     0.001334    -0.014087
 2.12E-06     0.036231     0.438096

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.012460     0.095782    -0.052130
-1.27E-05    -0.146568    -4.326375
0.25000    -0.012460     0.095782    -0.052130
-1.27E-05    -0.081762    -4.445448
0.50000    -0.012460     0.095782    -0.052130
-1.27E-05    -0.016955    -4.564521
0.75000    -0.012460     0.095782    -0.052130
-1.27E-05     0.047852    -4.683593
1.00000    -0.012460     0.095782    -0.052130
-1.27E-05     0.112658    -4.802666

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.012460    -0.095782     0.052130
 1.27E-05     0.146568     4.326375
0.25000     0.012460    -0.095782     0.052130
 1.27E-05     0.081762     4.445448
0.50000     0.012460    -0.095782     0.052130
 1.27E-05     0.016955     4.564521
0.75000     0.012460    -0.095782     0.052130
 1.27E-05    -0.047852     4.683593
1.00000     0.012460    -0.095782     0.052130
 1.27E-05    -0.112658     4.802666

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.095787     0.095782     0.052130
1.46E-05     0.146568     4.326375
0.25000     0.095787     0.095782     0.052130
1.46E-05     0.081762     4.445448
0.50000     0.095787     0.095782     0.052130
1.46E-05     0.016955     4.564521
0.75000     0.095787     0.095782     0.052130
1.46E-05     0.111017     4.683593
1.00000     0.095787     0.095782     0.052130
1.46E-05     0.232115     4.802666

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.101190    -0.095782    -0.097411
-1.27E-05    -0.252278    -4.326375
0.25000    -0.101190    -0.095782    -0.097411
-1.27E-05    -0.131180    -4.445448
0.50000    -0.101190    -0.095782    -0.097411
-1.27E-05    -0.016955    -4.564521
0.75000    -0.101190    -0.095782    -0.097411
-1.27E-05    -0.069308    -4.683593
1.00000    -0.101190    -0.095782    -0.097411
-1.27E-05    -0.132243    -4.802666

ELEM      406 ================== LENGTH
=     3.480724

LOAD      -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000825     0.008872    -0.008589
 1.01E-06    -0.015591    -0.129657
0.25000    -0.000825     0.008872    -0.008589
 1.01E-06    -0.008117    -0.137377
0.50000    -0.000825     0.008872    -0.008589
 1.01E-06    -0.000643    -0.145098
0.75000    -0.000825     0.008872    -0.008589
 1.01E-06     0.006831    -0.152818
1.00000    -0.000825     0.008872    -0.008589
 1.01E-06     0.014305    -0.160538
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         778

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.014385    -0.041452     0.040498
-4.42E-06     0.073510     0.603957
0.25000     0.014385    -0.041452     0.040498
-4.42E-06     0.038269     0.640028
0.50000     0.014385    -0.041452     0.040498
-4.42E-06     0.003028     0.676099
0.75000     0.014385    -0.041452     0.040498
-4.42E-06    -0.032213     0.712169
1.00000     0.014385    -0.041452     0.040498
-4.42E-06    -0.067454     0.748240

LOAD      -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.009532     0.051879    -0.154271
-2.59E-06    -0.279318    -2.298372
0.25000     0.009532     0.051879    -0.154271
-2.59E-06    -0.145075    -2.341517
0.50000     0.009532     0.051879    -0.154271
-2.59E-06    -0.010831    -2.388661
0.75000     0.009532     0.051879    -0.154271
-2.59E-06     0.123412    -2.433805
1.00000     0.009532     0.051879    -0.154271
-2.59E-06     0.257655    -2.478950

LOAD      -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.111301     0.002833     0.028691
 6.12E-06     0.061841     3.741491
0.25000    -0.111301     0.002833     0.028691
 6.12E-06     0.036875     3.741026
0.50000    -0.111301     0.002833     0.028691
 6.12E-06     0.011908     3.738561
0.75000    -0.111301     0.002833     0.028691
 6.12E-06    -0.013058     3.736096
1.00000    -0.111301     0.002833     0.028691
 6.12E-06    -0.038025     3.733632

LOAD      -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.008060    -0.027810     0.126370
-2.30E-06     0.215755    -2.363074
0.25000    -0.008060    -0.027810     0.126370
-2.30E-06     0.105790    -2.338874
0.50000    -0.008060    -0.027810     0.126370
-2.30E-06    -0.004175    -2.314675
0.75000    -0.008060    -0.027810     0.126370
-2.30E-06    -0.114141    -2.290475
1.00000    -0.008060    -0.027810     0.126370
-2.30E-06    -0.224106    -2.266275

LOAD      -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.096270     0.005678    -0.032701
 2.19E-06    -0.056197     0.443655
0.25000     0.096270     0.005678    -0.032701
 2.19E-06    -0.027742     0.438714
0.50000     0.096270     0.005678    -0.032701
 2.19E-06     0.000714     0.433773
0.75000     0.096270     0.005678    -0.032701
 2.19E-06     0.029169     0.428832
1.00000     0.096270     0.005678    -0.032701
 2.19E-06     0.057624     0.423891

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.000646     0.032941    -0.036489
-3.89E-06    -0.079154    -4.791103
0.25000     0.000646     0.032941    -0.036489
-3.89E-06    -0.047402    -4.819768
0.50000     0.000646     0.032941    -0.036489
-3.89E-06    -0.015650    -4.848433
0.75000     0.000646     0.032941    -0.036489
-3.89E-06     0.016102    -4.877098
1.00000     0.000646     0.032941    -0.036489
-3.89E-06     0.047854    -4.905763
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<          UNEQUAL          SETTLEMENT          >
                                         779

F R A M E   E L E M E N T   I N T E R N A
```

L F O R C E S

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.000646	-0.032941	0.036489
3.89E-06		0.079154	4.791103	
0.25000		-0.000646	-0.032941	0.036489
3.89E-06		0.047402	4.819768	
0.50000		-0.000646	-0.032941	0.036489
3.89E-06		0.015650	4.848433	
0.75000		-0.000646	-0.032941	0.036489
3.89E-06		-0.016102	4.877098	
1.00000		-0.000646	-0.032941	0.036489
3.89E-06		-0.047854	4.905763	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.096270	0.051879	0.126370
6.12E-06		0.215755	4.791103	
0.25000		0.096270	0.051879	0.126370
6.12E-06		0.105790	4.819768	
0.50000		0.096270	0.051879	0.126370
6.12E-06		0.015650	4.848433	
0.75000		0.096270	0.051879	0.126370
6.12E-06		0.123412	4.877098	
1.00000		0.096270	0.051879	0.126370
6.12E-06		0.257655	4.905763	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.111301	-0.041452	-0.154271
-4.42E-06		-0.279318	-4.791103	
0.25000		-0.111301	-0.041452	-0.154271
-4.42E-06		-0.145075	-4.819768	
0.50000		-0.111301	-0.041452	-0.154271
-4.42E-06		-0.015650	-4.848433	
0.75000		-0.111301	-0.041452	-0.154271
-4.42E-06		-0.114141	-4.877098	
1.00000		-0.111301	-0.041452	-0.154271
-4.42E-06		-0.224106	-4.905763	

ELEM 407 ========== LENGTH = 3.481038

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.001001	0.002111	-0.006965
9.46E-07		-0.012456	-0.158934	
0.25000		-0.001001	0.002111	-0.006965
9.46E-07		-0.006394	-0.160770	
0.50000		-0.001001	0.002111	-0.006965
9.46E-07		-0.000333	-0.162607	
0.75000		-0.001001	0.002111	-0.006965
9.46E-07		0.005728	-0.164444	
1.00000		-0.001001	0.002111	-0.006965
9.46E-07		0.011789	-0.166281	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.012524	-0.009799	0.032721
-4.38E-06		0.058521	0.740685	
0.25000		0.012524	-0.009799	0.032721
-4.38E-06		0.030045	0.749213	
0.50000		0.012524	-0.009799	0.032721
-4.38E-06		0.001569	0.757741	
0.75000		0.012524	-0.009799	0.032721
-4.38E-06		-0.026907	0.766269	
1.00000		0.012524	-0.009799	0.032721
-4.38E-06		-0.055383	0.774797	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.015401	0.030437	-0.126847
3.78E-06		-0.225495	-2.450034	
0.25000		0.015401	0.030437	-0.126847
3.78E-06		-0.115105	-2.476522	
0.50000		0.015401	0.030437	-0.126847
3.78E-06		-0.004715	-2.503010	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 780

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000		0.015401	0.030437	-0.126847
3.78E-06		0.105675	-2.529498	
1.00000		0.015401	0.030437	-0.126847
3.78E-06		0.216065	-2.555986	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.111118	-0.006609	-0.012935
-6.49E-06		-0.010950	3.732257	
0.25000		-0.111118	-0.006609	-0.012935
-6.49E-06		0.000307	3.738008	
0.50000		-0.111118	-0.006609	-0.012935
-6.49E-06		0.011564	3.743760	
0.75000		-0.111118	-0.006609	-0.012935
-6.49E-06		0.022821	3.749511	
1.00000		-0.111118	-0.006609	-0.012935
-6.49E-06		0.034079	3.755262	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.013644	-0.041175	0.151560
4.21E-06		0.253512	-2.295135	
0.25000		-0.013644	-0.041175	0.151560
4.21E-06		0.121616	-2.259303	
0.50000		-0.013644	-0.041175	0.151560
4.21E-06		-0.010280	-2.223470	
0.75000		-0.013644	-0.041175	0.151560
4.21E-06		-0.142177	-2.187638	
1.00000		-0.013644	-0.041175	0.151560
4.21E-06		-0.274073	-2.151805	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.097839	0.025035	-0.037533
1.94E-06		-0.063132	0.431160	
0.25000		0.097839	0.025035	-0.037533
1.94E-06		-0.030468	0.409373	
0.50000		0.097839	0.025035	-0.037533
1.94E-06		0.002196	0.387586	
0.75000		0.097839	0.025035	-0.037533
1.94E-06		0.034859	0.365799	
1.00000		0.097839	0.025035	-0.037533
1.94E-06		0.067523	0.344012	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.000756	-0.008627	0.017747
8.94E-06		0.015561	-4.904103	
0.25000		0.000756	-0.008627	0.017747
8.94E-06		0.000116	-4.896595	
0.50000		0.000756	-0.008627	0.017747
8.94E-06		-0.015329	-4.889087	
0.75000		0.000756	-0.008627	0.017747
8.94E-06		-0.030774	-4.881579	
1.00000		0.000756	-0.008627	0.017747
8.94E-06		-0.046218	-4.874072	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.000756	0.008627	-0.017747
-8.94E-06		-0.015561	4.904103	
0.25000		-0.000756	0.008627	-0.017747
-8.94E-06		-0.000116	4.896595	
0.50000		-0.000756	0.008627	-0.017747
-8.94E-06		0.015329	4.889087	
0.75000		-0.000756	0.008627	-0.017747
-8.94E-06		0.030774	4.881579	
1.00000		-0.000756	0.008627	-0.017747
-8.94E-06		0.046218	4.874072	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.097839	0.030437	0.151560
8.94E-06		0.253512	4.904103	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 781

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000		0.097839	0.030437	0.151560
8.94E-06		0.121616	4.896595	
0.50000		0.097839	0.030437	0.151560
8.94E-06		0.015329	4.889087	
0.75000		0.097839	0.030437	0.151560
8.94E-06		0.105675	4.881579	
1.00000		0.097839	0.030437	0.151560
8.94E-06		0.216065	4.874072	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.111118	-0.041175	-0.126847
-8.94E-06		-0.225495	-4.904103	
0.25000		-0.111118	-0.041175	-0.126847
-8.94E-06		-0.115105	-4.896595	
0.50000		-0.111118	-0.041175	-0.126847
-8.94E-06		-0.015329	-4.889087	
0.75000		-0.111118	-0.041175	-0.126847
-8.94E-06		-0.142177	-4.881579	
1.00000		-0.111118	-0.041175	-0.126847
-8.94E-06		-0.274073	-4.874072	

ELEM 408 ========== LENGTH = 4.972999

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.001257	0.000329	-0.002608
8.10E-07		-0.006955	-0.165153	
0.25000		-0.001257	0.000329	-0.002608
8.10E-07		-0.003713	-0.165562	
0.50000		-0.001257	0.000329	-0.002608
8.10E-07		-0.000471	-0.165972	
0.75000		-0.001257	0.000329	-0.002608
8.10E-07		0.002771	-0.166381	
1.00000		-0.001257	0.000329	-0.002608
8.10E-07		0.006012	-0.166790	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.011557	-0.001570	0.012169
-3.77E-06		0.032477	0.769513	
0.25000		0.011557	-0.001570	0.012169
-3.77E-06		0.017348	0.771466	
0.50000		0.011557	-0.001570	0.012169
-3.77E-06		0.002219	0.773418	
0.75000		0.011557	-0.001570	0.012169
-3.77E-06		-0.012909	0.775371	
1.00000		0.011557	-0.001570	0.012169
-3.77E-06		-0.028038	0.777323	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.015423	0.008774	-0.049512
7.37E-06		-0.130144	-2.535165	
0.25000		0.015423	0.008774	-0.049512
7.37E-06		-0.068589	-2.546073	
0.50000		0.015423	0.008774	-0.049512
7.37E-06		-0.007034	-2.556982	
0.75000		0.015423	0.008774	-0.049512
7.37E-06		0.054521	-2.567890	
1.00000		0.015423	0.008774	-0.049512
7.37E-06		0.116076	-2.578799	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.099942	0.028261	-0.032661
-1.45E-05		-0.068023	3.761418	
0.25000		-0.099942	0.028261	-0.032661
-1.45E-05		-0.027417	3.726282	
0.50000		-0.099942	0.028261	-0.032661
-1.45E-05		0.013189	3.691146	
0.75000		-0.099942	0.028261	-0.032661
-1.45E-05		0.053794	3.656010	
1.00000		-0.099942	0.028261	-0.032661
-1.45E-05		0.094400	3.620874	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 782

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.027053	-0.072918	0.094908
8.55E-06		0.226351	-2.181922	
0.25000		-0.027053	-0.072918	0.094908
8.55E-06		0.108357	-2.091267	
0.50000		-0.027053	-0.072918	0.094908
8.55E-06		-0.009637	-2.000612	
0.75000		-0.027053	-0.072918	0.094908
8.55E-06		-0.127631	-1.909958	
1.00000		-0.027053	-0.072918	0.094908
8.55E-06		-0.245626	-1.819303	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.101273	0.037123	-0.022296
1.53E-06		-0.053705	0.351308	
0.25000		0.101273	0.037123	-0.022296
1.53E-06		-0.025985	0.305155	
0.50000		0.101273	0.037123	-0.022296
1.53E-06		0.001734	0.259001	
0.75000		0.101273	0.037123	-0.022296
1.53E-06		0.029454	0.212848	
1.00000		0.101273	0.037123	-0.022296
1.53E-06		0.057174	0.166695	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.012888	-0.063814	0.042789
1.67E-05		0.089252	-4.882240	
0.25000		-0.012888	-0.063814	0.042789
1.67E-05		0.036054	-4.802903	
0.50000		-0.012888	-0.063814	0.042789
1.67E-05		-0.017143	-4.723566	
0.75000		-0.012888	-0.063814	0.042789
1.67E-05		-0.070340	-4.644229	
1.00000		-0.012888	-0.063814	0.042789
1.67E-05		-0.123537	-4.564892	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.012888	0.063814	-0.042789
-1.67E-05		-0.089252	4.882240	
0.25000		0.012888	0.063814	-0.042789
-1.67E-05		-0.036054	4.802903	
0.50000		0.012888	0.063814	-0.042789
-1.67E-05		0.017143	4.723566	
0.75000		0.012888	0.063814	-0.042789
-1.67E-05		0.070340	4.644229	
1.00000		0.012888	0.063814	-0.042789
-1.67E-05		0.123537	4.564892	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.101273	0.063814	0.094908
1.67E-05		0.226351	4.882240	
0.25000		0.101273	0.063814	0.094908
1.67E-05		0.108357	4.802903	
0.50000		0.101273	0.063814	0.094908
1.67E-05		0.017143	4.723566	
0.75000		0.101273	0.063814	0.094908
1.67E-05		0.070340	4.644229	
1.00000		0.101273	0.063814	0.094908
1.67E-05		0.123537	4.564892	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.099942	-0.072918	-0.049512
-1.67E-05		-0.130144	-4.882240	
0.25000		-0.099942	-0.072918	-0.049512
-1.67E-05		-0.068589	-4.802903	
0.50000		-0.099942	-0.072918	-0.049512
-1.67E-05		-0.017143	-4.723566	
0.75000		-0.099942	-0.072918	-0.049512
-1.67E-05		-0.127631	-4.644229	
1.00000		-0.099942	-0.072918	-0.049512
-1.67E-05		-0.245626	-4.564892	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 783

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 409 ========== LENGTH = 4.972771

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.001434	-0.004749	-0.001458
6.58E-07		-0.004150	-0.166178	
0.25000		-0.001434	-0.004749	-0.001458
6.58E-07		-0.002338	-0.160274	
0.50000		-0.001434	-0.004749	-0.001458
6.58E-07		-0.000525	-0.154371	
0.75000		-0.001434	-0.004749	-0.001458
6.58E-07		0.001288	-0.148467	
1.00000		-0.001434	-0.004749	-0.001458
6.58E-07		0.003101	-0.142563	

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.010753	0.022130	0.006685
-3.07E-06		0.019089	0.774487	
0.25000		0.010753	0.022130	0.006685
-3.07E-06		0.010778	0.746975	
0.50000		0.010753	0.022130	0.006685
-3.07E-06		0.002467	0.719463	
0.75000		0.010753	0.022130	0.006685
-3.07E-06		-0.005845	0.691951	
1.00000		0.010753	0.022130	0.006685
-3.07E-06		-0.014156	0.664439	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.014646	-0.072276	-0.031190
8.74E-06		-0.085658	-2.566656	
0.25000		0.014646	-0.072276	-0.031190
8.74E-06		-0.040883	-2.476803	
0.50000		0.014646	-0.072276	-0.031190
8.74E-06		-0.008107	-2.386950	
0.75000		0.014646	-0.072276	-0.031190
8.74E-06		0.030668	-2.297097	
1.00000		0.014646	-0.072276	-0.031190
8.74E-06		0.069444	-2.207244	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.087733	0.147642	-0.062067
-1.91E-05		-0.143468	3.635183	
0.25000		-0.087733	0.147642	-0.062067
-1.91E-05		-0.066306	3.451635	
0.50000		-0.087733	0.147642	-0.062067
-1.91E-05		0.010855	3.268088	
0.75000		-0.087733	0.147642	-0.062067
-1.91E-05		0.088017	3.084541	
1.00000		-0.087733	0.147642	-0.062067
-1.91E-05		0.165178	2.900993	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.041330	-0.139224	0.112841
1.14E-05		0.275484	-1.850659	
0.25000		-0.041330	-0.139224	0.112841
1.14E-05		0.135201	-1.677577	
0.50000		-0.041330	-0.139224	0.112841
1.14E-05		-0.005081	-1.504496	
0.75000		-0.041330	-0.139224	0.112841
1.14E-05		-0.145364	-1.331414	
1.00000		-0.041330	-0.139224	0.112841
1.14E-05		-0.285647	-1.158332	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.105099	0.046476	-0.024811
1.39E-06		-0.061297	0.173823	
0.25000		0.105099	0.046476	-0.024811
1.39E-06		-0.030453	0.116044	
0.50000		0.105099	0.046476	-0.024811
1.39E-06		0.000392	0.058265	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 784

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000		0.105099	0.046476	-0.024811
1.39E-06		0.031236	0.000486	
1.00000		0.105099	0.046476	-0.024811
1.39E-06		0.062080	-0.057293	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.028118	-0.216248	0.080192
2.08E-05		0.185676	-4.583493	
0.25000		-0.028118	-0.216248	0.080192
2.08E-05		0.085981	-4.314655	
0.50000		-0.028118	-0.216248	0.080192
2.08E-05		-0.013713	-4.045816	
0.75000		-0.028118	-0.216248	0.080192
2.08E-05		-0.113408	-3.776978	
1.00000		-0.028118	-0.216248	0.080192
2.08E-05		-0.213103	-3.508140	

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.028118	0.216248	-0.080192
-2.08E-05		-0.185676	4.583493	
0.25000		0.028118	0.216248	-0.080192
-2.08E-05		-0.085981	4.314655	
0.50000		0.028118	0.216248	-0.080192
-2.08E-05		0.013713	4.045816	
0.75000		0.028118	0.216248	-0.080192
-2.08E-05		0.113408	3.776978	
1.00000		0.028118	0.216248	-0.080192
-2.08E-05		0.213103	3.508140	

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.105099	0.216248	0.112841
2.08E-05		0.275484	4.583493	
0.25000		0.105099	0.216248	0.112841
2.08E-05		0.135201	4.314655	
0.50000		0.105099	0.216248	0.112841
2.08E-05		0.013713	4.045816	
0.75000		0.105099	0.216248	0.112841
2.08E-05		0.113408	3.776978	
1.00000		0.105099	0.216248	0.112841
2.08E-05		0.213103	3.508140	

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.087733	-0.216248	-0.080192
-2.08E-05		-0.185676	-4.583493	
0.25000		-0.087733	-0.216248	-0.080192
-2.08E-05		-0.085981	-4.314655	
0.50000		-0.087733	-0.216248	-0.080192
-2.08E-05		-0.013713	-4.045816	
0.75000		-0.087733	-0.216248	-0.080192
-2.08E-05		-0.113408	-3.776978	
1.00000		-0.087733	-0.216248	-0.080192
-2.08E-05		-0.213103	-3.508140	

ELEM 410 ========== LENGTH = 4.972670

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.001450	0.002327	-0.000274
3.92E-07		-0.001183	-0.142306	
0.25000		-0.001450	0.002327	-0.000274
3.92E-07		-0.000842	-0.145198	
0.50000		-0.001450	0.002327	-0.000274
3.92E-07		-0.000501	-0.148091	
0.75000		-0.001450	0.002327	-0.000274
3.92E-07		-0.000161	-0.150983	
1.00000		-0.001450	0.002327	-0.000274
3.92E-07		0.000180	-0.153876	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page 785

< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.009600	-0.010840	0.001057
-1.84E-06		0.004983	0.663287	
0.25000		0.009600	-0.010840	0.001057
-1.84E-06		0.003669	0.676764	
0.50000		0.009600	-0.010840	0.001057
-1.84E-06		0.002354	0.690240	
0.75000		0.009600	-0.010840	0.001057
-1.84E-06		0.001040	0.703716	
1.00000		0.009600	-0.010840	0.001057
-1.84E-06		-0.000274	0.717193	

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.014989	0.036912	-0.012328
6.37E-06		-0.038308	-2.200755	
0.25000		0.014989	0.036912	-0.012328
6.37E-06		-0.022982	-2.246643	
0.50000		0.014989	0.036912	-0.012328
6.37E-06		-0.007656	-2.292530	
0.75000		0.014989	0.036912	-0.012328
6.37E-06		0.007670	-2.338418	
1.00000		0.014989	0.036912	-0.012328
6.37E-06		0.022997	-2.384306	

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.077576	0.022128	-0.086706
-1.75E-05		-0.206079	2.923334	
0.25000		-0.077576	0.022128	-0.086706
-1.75E-05		-0.098289	2.868825	
0.50000		-0.077576	0.022128	-0.086706
-1.75E-05		0.009500	2.868317	
0.75000		-0.077576	0.022128	-0.086706
-1.75E-05		0.117290	2.840808	
1.00000		-0.077576	0.022128	-0.086706
-1.75E-05		0.225079	2.813300	

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.053949	-0.118462	0.122964
1.15E-05		0.302688	-1.193132	
0.25000		-0.053949	-0.118462	0.122964
1.15E-05		0.149622	-1.046464	
0.50000		-0.053949	-0.118462	0.122964
1.15E-05		-0.003243	-0.899796	
0.75000		-0.053949	-0.118462	0.122964
1.15E-05		-0.156108	-0.751928	
1.00000		-0.053949	-0.118462	0.122964
1.15E-05		-0.308974	-0.604659	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		0.108385	0.067936	-0.024713
1.07E-06		-0.061900	-0.049828	
0.25000		0.108385	0.067936	-0.024713
1.07E-06		-0.031177	-0.134284	
0.50000		0.108385	0.067936	-0.024713
1.07E-06		-0.000454	-0.218740	
0.75000		0.108385	0.067936	-0.024713
1.07E-06		0.030269	-0.303195	
1.00000		0.108385	0.067936	-0.024713
1.07E-06		0.060992	-0.387651	

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000		-0.040410	-0.079223	0.110362
1.82E-05		0.262997	-3.536793	
0.25000		-0.040410	-0.079223	0.110362
1.82E-05		0.125798	-3.438305	
0.50000		-0.040410	-0.079223	0.110362
1.82E-05		-0.011400	-3.339817	

0.75000	-0.040410	-0.079223	0.110362
1.82E-05	-0.148599	-3.241329	
1.00000	-0.040410	-0.079223	0.110362
1.82E-05	-0.285797	-3.142841	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
786

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.040410	0.079223	-0.110362
-1.82E-05	-0.262997	3.536793	
0.25000	0.040410	0.079223	-0.110362
-1.82E-05	-0.125798	3.438305	
0.50000	0.040410	0.079223	-0.110362
-1.82E-05	0.011400	3.339817	
0.75000	0.040410	0.079223	-0.110362
-1.82E-05	0.148599	3.241329	
1.00000	0.040410	0.079223	-0.110362
-1.82E-05	0.285797	3.142841	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.108385	0.079223	0.122964
1.82E-05	0.302488	3.536793	
0.25000	0.108385	0.079223	0.122964
1.82E-05	0.149622	3.438305	
0.50000	0.108385	0.079223	0.122964
1.82E-05	0.011400	3.339817	
0.75000	0.108385	0.079223	0.122964
1.82E-05	0.148599	3.241329	
1.00000	0.108385	0.079223	0.122964
1.82E-05	0.285797	3.142841	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.077576	-0.118462	-0.110362
-1.82E-05	-0.262997	-3.536793	
0.25000	-0.077576	-0.118462	-0.110362
-1.82E-05	-0.125798	-3.438305	
0.50000	-0.077576	-0.118462	-0.110362
-1.82E-05	-0.011400	-3.339817	
0.75000	-0.077576	-0.118462	-0.110362
-1.82E-05	-0.156108	-3.241329	
1.00000	-0.077576	-0.118462	-0.110362
-1.82E-05	-0.308974	-3.142841	

ELEM 411 ========== LENGTH = 4.972693

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001280	-0.007113	0.000842
9.73E-08	0.001625	-0.153974	
0.25000	-0.001280	-0.007113	0.000842
9.73E-08	0.000579	-0.145131	
0.50000	-0.001280	-0.007113	0.000842
9.73E-08	-0.000468	-0.136288	
0.75000	-0.001280	-0.007113	0.000842
9.73E-08	-0.001514	-0.127446	
1.00000	-0.001280	-0.007113	0.000842
9.73E-08	-0.002561	-0.118603	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.007897	0.033170	-0.004234
-4.74E-07	-0.008333	0.717730	
0.25000	0.007897	0.033170	-0.004234
-4.74E-07	-0.003069	0.676494	
0.50000	0.007897	0.033170	-0.004234
-4.74E-07	0.002195	0.635259	
0.75000	0.007897	0.033170	-0.004234
-4.74E-07	0.007459	0.594023	
1.00000	0.007897	0.033170	-0.004234
-4.74E-07	0.012723	0.552787	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.015138	-0.109690	0.005130
2.78E-06	0.005684	-2.383386	
0.25000	0.015138	-0.109690	0.005130
2.78E-06	0.000693	-2.247022	
0.50000	0.015138	-0.109690	0.005130
2.78E-06	-0.007070	-2.110659	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
787

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.015138	-0.109690	0.005130
2.78E-06	-0.013447	-1.974296	
1.00000	0.015138	-0.109690	0.005130
2.78E-06	-0.019824	-1.837933	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.067693	0.218085	-0.107082
-1.41E-05	-0.258688	2.842537	
0.25000	-0.067693	0.218085	-0.107082
-1.41E-05	-0.125567	2.571419	
0.50000	-0.067693	0.218085	-0.107082
-1.41E-05	0.007554	2.300302	
0.75000	-0.067693	0.218085	-0.107082
-1.41E-05	0.140676	2.029184	
1.00000	-0.067693	0.218085	-0.107082
-1.41E-05	0.273797	1.758066	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.064180	-0.200891	0.127601
1.15E-05	0.316625	-0.642344	
0.25000	-0.064180	-0.200891	0.127601
1.15E-05	0.157995	-0.392601	
0.50000	-0.064180	-0.200891	0.127601
1.15E-05	-0.000635	-0.142859	
0.75000	-0.064180	-0.200891	0.127601
1.15E-05	-0.159265	0.106884	
1.00000	-0.064180	-0.200891	0.127601
1.15E-05	-0.317895	0.356627	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.110117	0.066439	-0.022256
2.14E-07	-0.056913	-0.380563	
0.25000	0.110117	0.066439	-0.022256
2.14E-07	-0.029245	-0.463158	
0.50000	0.110117	0.066439	-0.022256
2.14E-07	-0.001576	-0.545754	
0.75000	0.110117	0.066439	-0.022256
2.14E-07	0.026092	-0.628350	
1.00000	0.110117	0.066439	-0.022256
2.14E-07	0.053760	-0.710945	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.050321	-0.317694	0.133572
1.44E-05	0.323934	-3.179704	
0.25000	-0.050321	-0.317694	0.133572
1.44E-05	0.157881	-2.784755	
0.50000	-0.050321	-0.317694	0.133572
1.44E-05	-0.008172	-2.389806	
0.75000	-0.050321	-0.317694	0.133572
1.44E-05	-0.174226	-1.994857	
1.00000	-0.050321	-0.317694	0.133572
1.44E-05	-0.340279	-1.599908	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.050321	0.317694	-0.133572
-1.44E-05	-0.323934	3.179704	
0.25000	0.050321	0.317694	-0.133572
-1.44E-05	-0.157881	2.784755	
0.50000	0.050321	0.317694	-0.133572
-1.44E-05	0.008172	2.389806	
0.75000	0.050321	0.317694	-0.133572
-1.44E-05	0.174226	1.994857	
1.00000	0.050321	0.317694	-0.133572
-1.44E-05	0.340279	1.599908	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.110117	0.317694	0.133572
1.44E-05	0.323934	3.179704	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
788

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.110117	0.317694	0.133572
1.44E-05	0.157995	2.784755	
0.50000	0.110117	0.317694	0.133572
1.44E-05	0.008172	2.389806	
0.75000	0.110117	0.317694	0.133572
1.44E-05	0.174226	2.029184	
1.00000	0.110117	0.317694	0.133572
1.44E-05	0.340279	1.758066	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.067693	-0.317694	-0.133572
-1.44E-05	-0.323934	-3.179704	
0.25000	-0.067693	-0.317694	-0.133572
-1.44E-05	-0.157881	-2.784755	
0.50000	-0.067693	-0.317694	-0.133572
-1.44E-05	-0.008172	-2.389806	
0.75000	-0.067693	-0.317694	-0.133572
-1.44E-05	-0.174226	-1.994857	
1.00000	-0.067693	-0.317694	-0.133572
-1.44E-05	-0.340279	-1.837933	

ELEM 412 ========== LENGTH = 4.972843

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000908	-0.007129	0.001772
-1.37E-07	0.004060	-0.119014	
0.25000	-0.000908	-0.007129	0.001772
-1.37E-07	0.001858	-0.110151	
0.50000	-0.000908	-0.007129	0.001772
-1.37E-07	-0.000345	-0.101289	
0.75000	-0.000908	-0.007129	0.001772
-1.37E-07	-0.002548	-0.092427	
1.00000	-0.000908	-0.007129	0.001772
-1.37E-07	-0.004750	-0.083564	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.005512	0.033250	-0.008640
6.14E-07	-0.019864	0.554806	
0.25000	0.005512	0.033250	-0.008640
6.14E-07	-0.009123	0.513470	
0.50000	0.005512	0.033250	-0.008640
6.14E-07	0.001618	0.472134	
0.75000	0.005512	0.033250	-0.008640
6.14E-07	0.012359	0.430797	
1.00000	0.005512	0.033250	-0.008640
6.14E-07	0.023100	0.389461	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.014026	-0.110595	0.019467
-3.79E-07	0.040272	1.784784	
0.25000	0.014026	-0.110595	0.019467
-3.79E-07	0.019070	-1.704291	
0.50000	0.014026	-0.110595	0.019467
-3.79E-07	-0.005132	-1.566799	
0.75000	0.014026	-0.110595	0.019467
-3.79E-07	-0.029334	-1.429307	
1.00000	0.014026	-0.110595	0.019467
-3.79E-07	-0.053535	-1.291815	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.053792	0.216200	-0.120580
-1.17E-05	-0.295889	1.792323	
0.25000	-0.053792	0.216200	-0.120580
-1.17E-05	-0.145983	1.523540	
0.50000	-0.053792	0.216200	-0.120580
-1.17E-05	0.003923	1.254758	
0.75000	-0.053792	0.216200	-0.120580
-1.17E-05	0.153829	0.985975	
1.00000	-0.053792	0.216200	-0.120580
-1.17E-05	0.303734	0.717193	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
789

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074926	-0.194775	0.125157
1.27E-05	0.313756	0.318665	
0.25000	-0.074926	-0.194775	0.125157
1.27E-05	0.158159	0.560811	
0.50000	-0.074926	-0.194775	0.125157
1.27E-05	0.002563	0.802957	
0.75000	-0.074926	-0.194775	0.125157
1.27E-05	-0.153034	1.045102	
1.00000	-0.074926	-0.194775	0.125157
1.27E-05	-0.308630	1.287248	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.110088	0.063048	-0.017177
-1.08E-06	-0.045336	-0.770997	
0.25000	0.110088	0.063048	-0.017177
-1.08E-06	-0.023982	-0.783378	
0.50000	0.110088	0.063048	-0.017177
-1.08E-06	-0.002627	-0.861760	
0.75000	0.110088	0.063048	-0.017177
-1.08E-06	0.018727	-0.940142	
1.00000	0.110088	0.063048	-0.017177
-1.08E-06	0.040081	-1.018523	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.061808	-0.312498	0.146396
1.22E-05	0.361088	-1.642132	
0.25000	-0.061808	-0.312498	0.146396
1.22E-05	0.179087	-1.253632	
0.50000	-0.061808	-0.312498	0.146396
1.22E-05	-0.002914	-0.865131	
0.75000	-0.061808	-0.312498	0.146396
1.22E-05	-0.184915	-0.476631	
1.00000	-0.061808	-0.312498	0.146396
1.22E-05	-0.366916	-0.088131	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.061808	0.312498	-0.146396
-1.22E-05	-0.361088	1.642132	
0.25000	0.061808	0.312498	-0.146396
-1.22E-05	-0.179087	1.253632	
0.50000	0.061808	0.312498	-0.146396
-1.22E-05	0.002914	0.865131	
0.75000	0.061808	0.312498	-0.146396
-1.22E-05	0.184915	0.476631	
1.00000	0.061808	0.312498	-0.146396
-1.22E-05	0.366916	0.088131	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.110088	0.312498	0.146396
1.27E-05	0.361088	1.792323	
0.25000	0.110088	0.312498	0.146396
1.27E-05	0.179087	1.523540	
0.50000	0.110088	0.312498	0.146396
1.27E-05	0.003923	1.254758	
0.75000	0.110088	0.312498	0.146396
1.27E-05	0.184915	1.045102	
1.00000	0.110088	0.312498	0.146396
1.27E-05	0.366916	1.287248	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.074926	-0.312498	-0.146396
-1.22E-05	-0.361088	-1.841784	
0.25000	-0.074926	-0.312498	-0.146396
-1.22E-05	-0.179087	-1.704291	
0.50000	-0.074926	-0.312498	-0.146396
-1.22E-05	-0.005132	-1.566799	
0.75000	-0.074926	-0.312498	-0.146396
-1.22E-05	-0.184915	-1.429307	
1.00000	-0.074926	-0.312498	-0.146396
-1.22E-05	-0.366916	-1.291815	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
790

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 413 ========== LENGTH = 4.973066

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000419	-0.007574	0.002411
-3.17E-07	0.005770	-0.084215	
0.25000	-0.000419	-0.007574	0.002411
-3.17E-07	0.002772	-0.074799	
0.50000	-0.000419	-0.007574	0.002411
-3.17E-07	-0.000226	-0.065383	
0.75000	-0.000419	-0.007574	0.002411
-3.17E-07	-0.003224	-0.055967	
1.00000	-0.000419	-0.007574	0.002411
-3.17E-07	-0.006222	-0.046551	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.002767	0.035328	-0.011671
1.45E-06	-0.027961	0.392617	
0.25000	0.002767	0.035328	-0.011671
1.45E-06	-0.013451	0.348694	
0.50000	0.002767	0.035328	-0.011671
1.45E-06	0.001060	0.304772	
0.75000	0.002767	0.035328	-0.011671
1.45E-06	0.015570	0.260850	
1.00000	0.002767	0.035328	-0.011671
1.45E-06	0.030081	0.216928	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.011525	-0.116685	0.029222
-2.67E-06	0.069379	-1.299228	
0.25000	0.011525	-0.116685	0.029222
-2.67E-06	0.033049	-1.154158	
0.50000	0.011525	-0.116685	0.029222
-2.67E-06	0.003282	-1.009087	
0.75000	0.011525	-0.116685	0.029222
-2.67E-06	-0.039612	-0.864016	
1.00000	0.011525	-0.116685	0.029222
-2.67E-06	-0.075942	-0.718946	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.037407	0.223362	-0.125304
-1.02E-05	-0.311240	0.754045	
0.25000	-0.037407	0.223362	-0.125304
-1.02E-05	-0.155454	0.476347	
0.50000	-0.037407	0.223362	-0.125304
-1.02E-05	0.000333	0.198649	
0.75000	-0.037407	0.223362	-0.125304
-1.02E-05	0.156119	-0.079049	
1.00000	-0.037407	0.223362	-0.125304
-1.02E-05	0.311906	-0.356747	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.084666	-0.196884	0.114797
1.44E-05	0.291298	1.251279	
0.25000	-0.084666	-0.196884	0.114797
1.44E-05	0.148575	1.496058	
0.50000	-0.084666	-0.196884	0.114797
1.44E-05	0.005852	1.740837	
0.75000	-0.084666	-0.196884	0.114797
1.44E-05	-0.136871	1.985616	
1.00000	-0.084666	-0.196884	0.114797
1.44E-05	-0.279593	2.230395	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.108200	0.062453	-0.009454
-2.70E-06	-0.027246	-1.014497	
0.25000	0.108200	0.062453	-0.009454
-2.70E-06	-0.015492	-1.092143	
0.50000	0.108200	0.062453	-0.009454
-2.70E-06	-0.003738	-1.169788	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
791

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.108200	0.062453	-0.009454
-2.70E-06	0.008016	-1.247433	
1.00000	0.108200	0.062453	-0.009454
-2.70E-06	0.019771	-1.325079	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.073561	-0.321142	0.146430
1.14E-05	0.366447	-0.132164	
0.25000	-0.073561	-0.321142	0.146430
1.14E-05	0.184396	0.267101	
0.50000	-0.073561	-0.321142	0.146430
1.14E-05	0.002345	0.666367	
0.75000	-0.073561	-0.321142	0.146430
1.14E-05	-0.179706	1.065633	
1.00000	-0.073561	-0.321142	0.146430
1.14E-05	-0.361757	1.464898	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.073561	0.321142	-0.146430
-1.14E-05	-0.366447	0.132164	
0.25000	0.073561	0.321142	-0.146430
-1.14E-05	-0.184396	-0.267101	
0.50000	0.073561	0.321142	-0.146430
-1.14E-05	-0.002345	-0.666367	
0.75000	0.073561	0.321142	-0.146430
-1.14E-05	0.179706	-1.065633	
1.00000	0.073561	0.321142	-0.146430
-1.14E-05	0.361757	-1.464898	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.108200	0.321142	0.146430
1.44E-05	0.366447	1.251279	
0.25000	0.108200	0.321142	0.146430
1.44E-05	0.184396	1.496058	
0.50000	0.108200	0.321142	0.146430
1.44E-05	0.005852	1.740837	
0.75000	0.108200	0.321142	0.146430
1.44E-05	0.179706	1.985616	
1.00000	0.108200	0.321142	0.146430
1.44E-05	0.361757	2.230395	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.084666	-0.321142	-0.146430
-1.14E-05	-0.366447	-1.299228	
0.25000	-0.084666	-0.321142	-0.146430
-1.14E-05	-0.184396	-1.154158	
0.50000	-0.084666	-0.321142	-0.146430
-1.14E-05	-0.003738	-1.169788	
0.75000	-0.084666	-0.321142	-0.146430
-1.14E-05	-0.179706	-1.247433	
1.00000	-0.084666	-0.321142	-0.146430
-1.14E-05	-0.361757	-1.464898	

ELEM 414 ========== LENGTH = 4.972522

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000211	-0.007777	0.002752
-5.02E-07	0.006747	-0.047333	
0.25000	-0.000211	-0.007777	0.002752
-5.02E-07	0.003326	-0.037665	
0.50000	-0.000211	-0.007777	0.002752
-5.02E-07	-9.50E-05	-0.027997	
0.75000	-0.000211	-0.007777	0.002752
-5.02E-07	-0.003516	-0.018329	
1.00000	-0.000211	-0.007777	0.002752
-5.02E-07	-0.006937	-0.008661	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
792

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.001463	0.036280	-0.013290
2.31E-06	-0.032596	0.220709	
0.25000	0.001463	0.036280	-0.013290
2.31E-06	-0.016075	0.175608	
0.50000	0.001463	0.036280	-0.013290
2.31E-06	0.000446	0.130507	
0.75000	0.001463	0.036280	-0.013290
2.31E-06	0.016967	0.085406	
1.00000	0.001463	0.036280	-0.013290
2.31E-06	0.033487	0.040305	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.008958	-0.121718	0.034364
-3.99E-06	0.084173	-0.728575	
0.25000	0.008958	-0.121718	0.034364
-3.99E-06	0.041454	-0.577263	
0.50000	0.008958	-0.121718	0.034364
-3.99E-06	-0.001265	-0.425952	
0.75000	0.008958	-0.121718	0.034364
-3.99E-06	-0.043985	-0.274641	
1.00000	0.008958	-0.121718	0.034364
-3.99E-06	-0.086704	-0.123330	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.024647	0.150004	-0.122103
-1.07E-05	-0.306274	-0.319579	
0.25000	-0.024647	0.150004	-0.122103
-1.07E-05	-0.154484	-0.506053	
0.50000	-0.024647	0.150004	-0.122103
-1.07E-05	-0.002694	0.692527	
0.75000	-0.024647	0.150004	-0.122103
-1.07E-05	0.149097	-0.879001	
1.00000	-0.024647	0.150004	-0.122103
-1.07E-05	0.300887	-1.065476	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.091184	-0.037093	0.098161
1.71E-05	0.251761	2.198441	
0.25000	-0.091184	-0.037093	0.098161
1.71E-05	0.129734	2.244552	
0.50000	-0.091184	-0.037093	0.098161
1.71E-05	0.007708	2.290663	
0.75000	-0.091184	-0.037093	0.098161
1.71E-05	-0.114318	2.336775	
1.00000	-0.091184	-0.037093	0.098161
1.71E-05	-0.236345	2.382886	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.105621	-0.019696	0.000116
-4.18E-06	-0.053811	-1.023663	
0.25000	0.105621	-0.019696	0.000116
-4.18E-06	-0.003955	-1.299178	
0.50000	0.105621	-0.019696	0.000116
-4.18E-06	-0.004100	-1.274694	
0.75000	0.105621	-0.019696	0.000116
-4.18E-06	-0.004245	-1.250209	
1.00000	0.105621	-0.019696	0.000116

-4.18E-06 -0.004389 -1.225725

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.082437	-0.166588	0.135277
1.26E-05	0.342681	1.422533	
0.25000	-0.082437	-0.166588	0.135277
1.26E-05	0.174514	1.629624	
0.50000	-0.082437	-0.166588	0.135277
1.26E-05	0.006348	1.836714	
0.75000	-0.082437	-0.166588	0.135277
1.26E-05	-0.161819	2.043805	
1.00000	-0.082437	-0.166588	0.135277
1.26E-05	-0.329986	2.250895	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.082437	0.166588	-0.135277
-1.26E-05	-0.342681	-1.422533	
0.25000	0.082437	0.166588	-0.135277
-1.26E-05	-0.174514	-1.629624	
0.50000	0.082437	0.166588	-0.135277
-1.26E-05	-0.006348	-1.836714	
0.75000	0.082437	0.166588	-0.135277
-1.26E-05	0.161819	-2.043805	
1.00000	0.082437	0.166588	-0.135277
-1.26E-05	0.329986	-2.250895	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.105621	0.166588	0.135277
1.71E-05	0.342681	2.198441	
0.25000	0.105621	0.166588	0.135277
1.71E-05	0.174514	2.244552	
0.50000	0.105621	0.166588	0.135277
1.71E-05	0.007708	2.290663	
0.75000	0.105621	0.166588	0.135277
1.71E-05	0.161819	2.336775	
1.00000	0.105621	0.166588	0.135277
1.71E-05	0.329986	2.382886	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.091184	-0.166588	-0.135277
-1.26E-05	-0.342681	-1.422533	
0.25000	-0.091184	-0.166588	-0.135277
-1.26E-05	-0.174514	-1.629624	
0.50000	-0.091184	-0.166588	-0.135277
-1.26E-05	-0.006348	-1.836714	
0.75000	-0.091184	-0.166588	-0.135277
-1.26E-05	-0.161819	-2.043805	
1.00000	-0.091184	-0.166588	-0.135277
-1.26E-05	-0.329986	-2.250895	

ELEM 415 ========== LENGTH = 4.972986

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.001318	-0.005507	0.002826
-7.26E-07	0.007027	-0.009501	
0.25000	-0.001318	-0.005507	0.002826
-7.26E-07	0.003515	-0.002654	
0.50000	-0.001318	-0.005507	0.002826
-7.26E-07	1.59E-06	0.004192	
0.75000	-0.001318	-0.005507	0.002826
-7.26E-07	-0.003511	0.011039	
1.00000	-0.001318	-0.005507	0.002826
-7.26E-07	-0.007024	0.017886	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.006392	0.025696	-0.013644
3.35E-06	-0.033933	0.044360	
0.25000	0.006392	0.025696	-0.013644
3.35E-06	-0.016970	0.012414	
0.50000	0.006392	0.025696	-0.013644
3.35E-06	-6.73E-06	-0.019533	
0.75000	0.006392	0.025696	-0.013644
3.35E-06	0.016956	-0.051480	
1.00000	0.006392	0.025696	-0.013644
3.35E-06	0.033920	-0.083427	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.007243	-0.081091	0.035249
-4.01E-06	0.087930	-0.133846	
0.25000	0.007243	-0.081091	0.035249
-4.01E-06	0.044107	-0.033029	
0.50000	0.007243	-0.081091	0.035249
-4.01E-06	0.000284	0.067788	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	0.007243	-0.081091	0.035249
-4.01E-06	-0.043539	0.168604	
1.00000	0.007243	-0.081091	0.035249
-4.01E-06	-0.087363	0.269421	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.021418	0.152600	-0.112498
-1.26E-05	-0.284614	-1.030217	
0.25000	-0.021418	0.152600	-0.112498
-1.26E-05	-0.144751	-1.219936	
0.50000	-0.021418	0.152600	-0.112498
-1.26E-05	-0.004888	-1.409655	
0.75000	-0.021418	0.152600	-0.112498
-1.26E-05	0.134975	-1.599374	
1.00000	-0.021418	0.152600	-0.112498
-1.26E-05	0.274838	-1.789093	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.096869	-0.133303	0.077507
1.82E-05	0.201707	2.356507	
0.25000	-0.096869	-0.133303	0.077507
1.82E-05	0.105347	2.522235	
0.50000	-0.096869	-0.133303	0.077507
1.82E-05	0.008986	2.687963	
0.75000	-0.096869	-0.133303	0.077507
1.82E-05	-0.087374	2.853691	
1.00000	-0.096869	-0.133303	0.077507
1.82E-05	-0.183734	3.019419	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.105970	0.041605	0.010561
-4.28E-06	0.021882	-1.227304	
0.25000	0.105970	0.041605	0.010561
-4.28E-06	0.008752	-1.279029	
0.50000	0.105970	0.041605	0.010561
-4.28E-06	-0.004377	-1.330755	
0.75000	0.105970	0.041605	0.010561
-4.28E-06	-0.017507	-1.382481	
1.00000	0.105970	0.041605	0.010561
-4.28E-06	-0.030637	-1.434206	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.090945	-0.219901	0.115582
1.35E-05	0.296665	2.213160	
0.25000	-0.090945	-0.219901	0.115582
1.35E-05	0.152968	2.486552	
0.50000	-0.090945	-0.219901	0.115582
1.35E-05	0.009272	2.759943	
0.75000	-0.090945	-0.219901	0.115582
1.35E-05	-0.134425	3.033334	
1.00000	-0.090945	-0.219901	0.115582
1.35E-05	-0.278121	3.306726	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.090945	0.219901	-0.115582
-1.35E-05	-0.296665	-2.213160	
0.25000	0.090945	0.219901	-0.115582
-1.35E-05	-0.152968	-2.486552	
0.50000	0.090945	0.219901	-0.115582
-1.35E-05	-0.009272	-2.759943	
0.75000	0.090945	0.219901	-0.115582
-1.35E-05	0.134425	-3.033334	
1.00000	0.090945	0.219901	-0.115582
-1.35E-05	0.278121	-3.306726	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.105970	0.219901	0.115582
1.82E-05	0.296665	2.356507	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	0.105970	0.219901	0.115582
1.82E-05	0.152968	2.522235	
0.50000	0.105970	0.219901	0.115582
1.82E-05	0.009272	2.759943	
0.75000	0.105970	0.219901	0.115582
1.82E-05	0.134975	3.033334	
1.00000	0.105970	0.219901	0.115582
1.82E-05	0.278121	3.306726	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.096869	-0.219901	-0.115582
-1.35E-05	-0.296665	-2.213160	
0.25000	-0.096869	-0.219901	-0.115582
-1.35E-05	-0.152968	-2.486552	
0.50000	-0.096869	-0.219901	-0.115582
-1.35E-05	-0.009272	-2.759943	
0.75000	-0.096869	-0.219901	-0.115582
-1.35E-05	-0.134425	-3.033334	
1.00000	-0.096869	-0.219901	-0.115582
-1.35E-05	-0.278121	-3.306726	

ELEM 416 ========== LENGTH = 4.972637

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.004619	-0.003019	0.002633
-9.83E-07	0.006695	0.017055	
0.25000	-0.004619	-0.003019	0.002633
-9.83E-07	0.003423	0.020808	
0.50000	-0.004619	-0.003019	0.002633
-9.83E-07	0.000150	0.024562	
0.75000	-0.004619	-0.003019	0.002633
-9.83E-07	-0.003123	0.028315	
1.00000	-0.004619	-0.003019	0.002633
-9.83E-07	-0.006396	0.032069	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.021588	0.014111	-0.012719
4.55E-06	-0.032341	-0.079414	
0.25000	0.021588	0.014111	-0.012719
4.55E-06	-0.016529	-0.096957	
0.50000	0.021588	0.014111	-0.012719
4.55E-06	-0.000717	-0.114499	
0.75000	0.021588	0.014111	-0.012719
4.55E-06	0.015096	-0.132041	
1.00000	0.021588	0.014111	-0.012719
4.55E-06	0.030908	-0.149583	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.009842	-0.068517	0.031560
-3.32E-06	0.081027	-0.259298	
0.25000	0.009842	-0.068517	0.031560
-3.32E-06	0.041793	-0.344476	
0.50000	0.009842	-0.068517	0.031560
-3.32E-06	0.002559	0.429654	
0.75000	0.009842	-0.068517	0.031560
-3.32E-06	-0.036675	0.514831	
1.00000	0.009842	-0.068517	0.031560
-3.32E-06	-0.075909	0.600009	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.042761	0.102282	-0.093773
-1.29E-05	-0.243221	-1.757983	
0.25000	-0.042761	0.102282	-0.093773
-1.29E-05	-0.126647	-1.885136	
0.50000	-0.042761	0.102282	-0.093773
-1.29E-05	-0.010073	-2.012289	
0.75000	-0.042761	0.102282	-0.093773
-1.29E-05	0.106502	-2.139441	
1.00000	-0.042761	0.102282	-0.093773
-1.29E-05	0.223076	-2.266594	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.097366	-0.036565	0.051486
1.40E-05	0.139957	2.999976	
0.25000	-0.097366	-0.036565	0.051486
1.40E-05	0.075952	3.045432	
0.50000	-0.097366	-0.036565	0.051486
1.40E-05	0.011947	3.090888	
0.75000	-0.097366	-0.036565	0.051486
1.40E-05	-0.052058	3.136344	
1.00000	-0.097366	-0.036565	0.051486
1.40E-05	-0.116063	3.181801	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.113316	-0.008291	0.020814
-1.35E-06	0.047883	1.438931	
0.25000	0.113316	-0.008291	0.020814
-1.35E-06	0.022008	-1.428624	
0.50000	0.113316	-0.008291	0.020814
-1.35E-06	-0.003867	-1.418316	
0.75000	0.113316	-0.008291	0.020814
-1.35E-06	-0.029742	-1.408009	
1.00000	0.113316	-0.008291	0.020814
-1.35E-06	-0.055617	-1.397701	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.092143	-0.108102	0.085678
9.70E-06	0.227679	3.276329	
0.25000	-0.092143	-0.108102	0.085678
9.70E-06	0.121168	3.410716	
0.50000	-0.092143	-0.108102	0.085678
9.70E-06	0.014656	3.545104	
0.75000	-0.092143	-0.108102	0.085678
9.70E-06	-0.091855	3.679491	
1.00000	-0.092143	-0.108102	0.085678
9.70E-06	-0.198367	3.813879	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.092143	0.108102	-0.085678
-9.70E-06	-0.227679	-3.276329	
0.25000	0.092143	0.108102	-0.085678
-9.70E-06	-0.121168	-3.410716	
0.50000	0.092143	0.108102	-0.085678
-9.70E-06	-0.014656	-3.545104	
0.75000	0.092143	0.108102	-0.085678
-9.70E-06	0.091855	-3.679491	
1.00000	0.092143	0.108102	-0.085678
-9.70E-06	0.198367	-3.813879	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.113316	0.108102	0.085678
1.40E-05	0.227679	3.276329	
0.25000	0.113316	0.108102	0.085678
1.40E-05	0.121168	3.410716	
0.50000	0.113316	0.108102	0.085678
1.40E-05	0.014656	3.545104	
0.75000	0.113316	0.108102	0.085678
1.40E-05	0.106502	3.679491	
1.00000	0.113316	0.108102	0.085678
1.40E-05	0.223076	3.813879	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.097366	-0.108102	-0.093773
-1.29E-05	-0.243221	-3.276329	
0.25000	-0.097366	-0.108102	-0.093773
-1.29E-05	-0.126647	-3.410716	
0.50000	-0.097366	-0.108102	-0.093773
-1.29E-05	-0.014656	-3.545104	
0.75000	-0.097366	-0.108102	-0.093773
-1.29E-05	-0.091855	-3.679491	
1.00000	-0.097366	-0.108102	-0.093773
-1.29E-05	-0.198367	-3.813879	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 417 ========== LENGTH = 3.481206

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.008693	-0.009416	0.004887
-9.87E-07	0.008607	0.031156	
0.25000	-0.008693	-0.009416	0.004887
-9.87E-07	0.004354	0.039350	
0.50000	-0.008693	-0.009416	0.004887
-9.87E-07	0.000101	0.047544	
0.75000	-0.008693	-0.009416	0.004887
-9.87E-07	-0.004153	0.055739	
1.00000	-0.008693	-0.009416	0.004887
-9.87E-07	-0.008406	0.063933	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.040436	0.043881	-0.023612
4.56E-06	-0.014174	-0.145174	
0.25000	0.040436	0.043881	-0.023612
4.56E-06	-0.021024	-0.183364	
0.50000	0.040436	0.043881	-0.023612
4.56E-06	-0.000475	-0.221554	
0.75000	0.040436	0.043881	-0.023612
4.56E-06	0.020075	-0.259743	
1.00000	0.040436	0.043881	-0.023612
4.56E-06	0.040624	-0.297933	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.014101	-0.031514	0.053776
-3.63E-06	0.095764	0.589698	
0.25000	0.014101	-0.031514	0.053776
-3.63E-06	0.048962	0.617125	
0.50000	0.014101	-0.031514	0.053776
-3.63E-06	0.002161	0.644552	
0.75000	0.014101	-0.031514	0.053776
-3.63E-06	-0.044641	0.671978	
1.00000	0.014101	-0.031514	0.053776
-3.63E-06	-0.091443	0.699405	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.073354	-0.019581	-0.151204
-8.52E-06	-0.270718	-2.237000	
0.25000	-0.073354	-0.019581	-0.151204
-8.52E-06	-0.139125	-2.219959	
0.50000	-0.073354	-0.019581	-0.151204
-8.52E-06	-0.007532	-2.202918	
0.75000	-0.073354	-0.019581	-0.151204
-8.52E-06	0.124061	-2.185876	
1.00000	-0.073354	-0.019581	-0.151204
-8.52E-06	0.255654	-2.168835	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.095530	0.017312	0.056434
5.59E-06	0.108166	3.168351	
0.25000	-0.095530	0.017312	0.056434
5.59E-06	0.059051	3.153284	
0.50000	-0.095530	0.017312	0.056434
5.59E-06	0.009936	3.138217	
0.75000	-0.095530	0.017312	0.056434
5.59E-06	-0.039178	3.123150	
1.00000	-0.095530	0.017312	0.056434
5.59E-06	-0.088293	3.108083	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.123040	-0.000683	0.059718
2.99E-06	0.099755	-1.407031	
0.25000	0.123040	-0.000683	0.059718
2.99E-06	0.047782	-1.406436	
0.50000	0.123040	-0.000683	0.059718
2.99E-06	-0.004191	-1.405842	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	0.123040	-0.000683	0.059718
2.99E-06	-0.056164	-1.405247	
1.00000	0.123040	-0.000683	0.059718
2.99E-06	-0.108137	-1.404653	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.090122	-0.023617	0.115098
9.75E-07	0.212537	3.789205	
0.25000	-0.090122	-0.023617	0.115098
9.75E-07	0.112367	3.809759	
0.50000	-0.090122	-0.023617	0.115098
9.75E-07	0.012197	3.830313	
0.75000	-0.090122	-0.023617	0.115098
9.75E-07	-0.087972	3.850867	
1.00000	-0.090122	-0.023617	0.115098
9.75E-07	-0.188142	3.871421	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.090122	0.023617	-0.115098
-9.75E-07	-0.212537	-3.789205	
0.25000	0.090122	0.023617	-0.115098
-9.75E-07	-0.112367	-3.809759	
0.50000	0.090122	0.023617	-0.115098
-9.75E-07	-0.012197	-3.830313	
0.75000	0.090122	0.023617	-0.115098
-9.75E-07	0.087972	-3.850867	
1.00000	0.090122	0.023617	-0.115098
-9.75E-07	0.188142	-3.871421	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.123040	0.043881	0.115098
5.59E-06	0.212537	3.789205	
0.25000	0.123040	0.043881	0.115098
5.59E-06	0.112367	3.809759	
0.50000	0.123040	0.043881	0.115098
5.59E-06	0.012197	3.830313	
0.75000	0.123040	0.043881	0.115098
5.59E-06	0.124061	3.850867	
1.00000	0.123040	0.043881	0.115098
5.59E-06	0.255654	3.871421	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.095530	-0.031514	-0.151204
-8.52E-06	-0.270718	-3.789205	
0.25000	-0.095530	-0.031514	-0.151204
-8.52E-06	-0.139125	-3.809759	
0.50000	-0.095530	-0.031514	-0.151204
-8.52E-06	-0.012197	-3.830313	
0.75000	-0.095530	-0.031514	-0.151204
-8.52E-06	-0.087972	-3.850867	
1.00000	-0.095530	-0.031514	-0.151204
-8.52E-06	-0.188142	-3.871421	

ELEM 418 ========== LENGTH = 4.972694

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.008504	0.004044	0.002357
5.01E-08	0.005920	0.063071	
0.25000	-0.008504	0.004044	0.002357
5.01E-08	0.002990	0.058044	
0.50000	-0.008504	0.004044	0.002357
5.01E-08	5.97E-05	0.053017	
0.75000	-0.008504	0.004044	0.002357
5.01E-08	-0.002870	0.047990	
1.00000	-0.008504	0.004044	0.002357
5.01E-08	-0.005800	0.042963	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.039487	-0.018785	-0.011376
-2.19E-07	-0.028557	-0.293768	
0.25000	0.039487	-0.018785	-0.011376
-2.19E-07	-0.014415	-0.270415	
0.50000	0.039487	-0.018785	-0.011376
-2.19E-07	-0.000273	-0.247061	
0.75000	0.039487	-0.018785	-0.011376
-2.19E-07	0.013870	-0.223707	
1.00000	0.039487	-0.018785	-0.011376
-2.19E-07	0.028012	-0.200354	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.011690	-0.015288	0.022116
-5.80E-06	0.056743	0.690492	
0.25000	0.011690	-0.015288	0.022116
-5.80E-06	0.029250	0.709498	
0.50000	0.011690	-0.015288	0.022116
-5.80E-06	0.001756	0.728504	
0.75000	0.011690	-0.015288	0.022116
-5.80E-06	-0.025738	0.747510	
1.00000	0.011690	-0.015288	0.022116
-5.80E-06	-0.053231	0.766516	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.064456	0.070711	-0.058585
1.15E-05	-0.151845	-2.144330	
0.25000	-0.064456	0.070711	-0.058585
1.15E-05	-0.079014	-2.232236	
0.50000	-0.064456	0.070711	-0.058585
1.15E-05	-0.006182	-2.320141	
0.75000	-0.064456	0.070711	-0.058585
1.15E-05	0.066649	-2.408047	
1.00000	-0.064456	0.070711	-0.058585
1.15E-05	0.139481	-2.495953	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.096564	-0.038090	0.005526
-1.46E-05	0.024160	3.101324	
0.25000	-0.096564	-0.038090	0.005526
-1.46E-05	0.017289	3.148675	
0.50000	-0.096564	-0.038090	0.005526
-1.46E-05	0.010419	3.196027	
0.75000	-0.096564	-0.038090	0.005526
-1.46E-05	0.003549	3.243379	
1.00000	-0.096564	-0.038090	0.005526
-1.46E-05	-0.003321	3.290731	

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.118346	-0.002591	0.039962	
8.99E-06	0.003580	-1.416788		
0.25000	0.118346	-0.002591	0.039962	
8.99E-06	0.043900	-1.413567		
0.50000	0.118346	-0.002591	0.039962	
8.99E-06	-0.005780	-1.410346		
0.75000	0.118346	-0.002591	0.039962	
8.99E-06	-0.055460	-1.407125		
1.00000	0.118346	-0.002591	0.039962	
8.99E-06	-0.105140	-1.403904		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.093377	-0.049334	0.029999	
-2.03E-05	0.086822	3.854887		
0.25000	-0.093377	-0.049334	0.029999	
-2.03E-05	0.049529	3.916217		
0.50000	-0.093377	-0.049334	0.029999	
-2.03E-05	0.012235	3.977548		
0.75000	-0.093377	-0.049334	0.029999	
-2.03E-05	-0.025059	4.038879		
1.00000	-0.093377	-0.049334	0.029999	
-2.03E-05	-0.062352	4.100210		

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.093377	0.049334	-0.029999	
2.03E-05	-0.086822	-3.854887		
0.25000	0.093377	0.049334	-0.029999	
2.03E-05	-0.049529	-3.916217		
0.50000	0.093377	0.049334	-0.029999	
2.03E-05	-0.012235	-3.977548		
0.75000	0.093377	0.049334	-0.029999	
2.03E-05	0.025059	-4.038879		
1.00000	0.093377	0.049334	-0.029999	
2.03E-05	0.062352	-4.100210		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.118346	0.070711	0.039962	
2.03E-05	0.093580	3.854887		
0.25000	0.118346	0.070711	0.039962	
2.03E-05	0.049529	3.916217		
0.50000	0.118346	0.070711	0.039962	
2.03E-05	0.012235	3.977548		
0.75000	0.118346	0.070711	0.039962	
2.03E-05	0.066649	4.038879		
1.00000	0.118346	0.070711	0.039962	
2.03E-05	0.139481	4.100210		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.096564	-0.049334	-0.058585	
-2.03E-05	-0.151845	-3.854887		
0.25000	-0.096564	-0.049334	-0.058585	
-2.03E-05	-0.079014	-3.916217		
0.50000	-0.096564	-0.049334	-0.058585	
-2.03E-05	-0.012235	-3.977548		
0.75000	-0.096564	-0.049334	-0.058585	
-2.03E-05	-0.055460	-4.038879		
1.00000	-0.096564	-0.049334	-0.058585	
-2.03E-05	-0.105140	-4.100210		

ELEM 419 ========== LENGTH = 4.972684

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.003177	-0.001831	0.002141	
3.07E-07	0.005479	0.042289		
0.25000	-0.003177	-0.001831	0.002141	
3.07E-07	0.002817	0.044565		
0.50000	-0.003177	-0.001831	0.002141	
3.07E-07	0.000155	0.046840		
0.75000	-0.003177	-0.001831	0.002141	
3.07E-07	-0.002508	0.049116		
1.00000	-0.003177	-0.001831	0.002141	
3.07E-07	-0.005170	0.051392		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.014665	0.008546	-0.010350	
-1.42E-06	-0.021461	-0.197096		
0.25000	0.014665	0.008546	-0.010350	
-1.42E-06	-0.013595	-0.207720		
0.50000	0.014665	0.008546	-0.010350	
-1.42E-06	-0.000728	-0.218345		
0.75000	0.014665	0.008546	-0.010350	
-1.42E-06	0.012139	-0.228970		
1.00000	0.014665	0.008546	-0.010350	
-1.42E-06	0.025005	-0.239595		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.001846	-0.004434	0.016618	
-5.16E-06	0.043987	0.760658		
0.25000	0.001846	-0.004434	0.016618	
-5.16E-06	0.023328	0.766170		
0.50000	0.001846	-0.004434	0.016618	
-5.16E-06	0.002669	0.771683		

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000	0.001846	-0.004434	0.016618	
-5.16E-06	-0.017990	0.771196		
1.00000	0.001846	-0.004434	0.016618	
-5.16E-06	-0.038649	0.782708		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.009926	0.009709	-0.039670	
1.70E-05	-0.107358	-2.481053		
0.25000	-0.009926	0.009709	-0.039670	
1.70E-05	-0.058042	-2.493123		
0.50000	-0.009926	0.009709	-0.039670	
1.70E-05	-0.008725	-2.505193		
0.75000	-0.009926	0.009709	-0.039670	
1.70E-05	0.040591	-2.517263		
1.00000	-0.009926	0.009709	-0.039670	
1.70E-05	0.089908	-2.529333		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.099753	-0.025642	-0.021720	
-2.33E-05	-0.042593	3.293085		
0.25000	-0.099753	-0.025642	-0.021720	
-2.33E-05	-0.015591	3.324962		
0.50000	-0.099753	-0.025642	-0.021720	
-2.33E-05	0.011410	3.356839		
0.75000	-0.099753	-0.025642	-0.021720	
-2.33E-05	0.038412	3.388715		
1.00000	-0.099753	-0.025642	-0.021720	
-2.33E-05	0.065414	3.420592		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.096345	0.013651	0.052980	
1.26E-05	0.126946	-1.417883		
0.25000	0.096345	0.013651	0.052980	
1.26E-05	0.061083	-1.434853		
0.50000	0.096345	0.013651	0.052980	
1.26E-05	-0.004781	-1.451824		
0.75000	0.096345	0.013651	0.052980	
1.26E-05	-0.070644	-1.468795		
1.00000	0.096345	0.013651	0.052980	
1.26E-05	-0.136508	-1.485766		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.101084	-0.031907	-0.002961	
-2.82E-05	0.006873	-4.096031		
0.25000	-0.101084	-0.031907	-0.002961	
-2.82E-05	0.010554	4.135696		
0.50000	-0.101084	-0.031907	-0.002961	
-2.82E-05	0.014234	4.175362		
0.75000	-0.101084	-0.031907	-0.002961	
-2.82E-05	0.017915	4.215027		
1.00000	-0.101084	-0.031907	-0.002961	
-2.82E-05	0.021595	4.254693		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.101084	0.031907	0.002961	
2.82E-05	-0.006873	-4.096031		
0.25000	0.101084	0.031907	0.002961	
2.82E-05	-0.010554	-4.135696		
0.50000	0.101084	0.031907	0.002961	
2.82E-05	-0.014234	-4.175362		
0.75000	0.101084	0.031907	0.002961	
2.82E-05	-0.017915	-4.215027		
1.00000	0.101084	0.031907	0.002961	
2.82E-05	-0.021595	-4.254693		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.101084	0.031907	0.052980	
2.82E-05	0.126946	4.096031		

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.25000	0.101084	0.031907	0.052980	
2.82E-05	0.061083	4.135696		
0.50000	0.101084	0.031907	0.052980	
2.82E-05	0.014234	4.175362		
0.75000	0.101084	0.031907	0.052980	
2.82E-05	0.040591	4.215027		
1.00000	0.101084	0.031907	0.052980	
2.82E-05	0.089908	4.254693		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.101084	-0.031907	-0.039670	
-2.82E-05	-0.107358	-4.096031		
0.25000	-0.101084	-0.031907	-0.039670	
-2.82E-05	-0.058042	-4.135696		
0.50000	-0.101084	-0.031907	-0.039670	
-2.82E-05	-0.014234	-4.175362		
0.75000	-0.101084	-0.031907	-0.039670	
-2.82E-05	-0.070644	-4.215027		
1.00000	-0.101084	-0.031907	-0.039670	
-2.82E-05	-0.136508	-4.254693		

ELEM 420 ========== LENGTH = 4.972800

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.000481	0.001274	0.001775	
1.42E-07	0.004569	0.050808		
0.25000	0.000481	0.001274	0.001775	
1.42E-07	0.002362	0.049223		
0.50000	0.000481	0.001274	0.001775	
1.42E-07	0.000155	0.047639		
0.75000	0.000481	0.001274	0.001775	
1.42E-07	-0.002052	0.046055		
1.00000	0.000481	0.001274	0.001775	
1.42E-07	-0.004259	0.044471		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.002372	-0.005916	-0.008609	
-6.53E-07	-0.022137	-0.236765		
0.25000	-0.002372	-0.005916	-0.008609	
-6.53E-07	-0.011433	-0.229409		
0.50000	-0.002372	-0.005916	-0.008609	
-6.53E-07	0.000730	-0.222054		
0.75000	-0.002372	-0.005916	-0.008609	
-6.53E-07	0.009973	-0.214699		
1.00000	-0.002372	-0.005916	-0.008609	
-6.53E-07	0.020676	-0.207344		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.004505	0.015597	0.010408	
-3.66E-06	0.028354	0.778671		
0.25000	-0.004505	0.015597	0.010408	
-3.66E-06	0.015415	0.759281		
0.50000	-0.004505	0.015597	0.010408	
-3.66E-06	0.002476	0.739891		
0.75000	-0.004505	0.015597	0.010408	
-3.66E-06	-0.010463	0.720502		
1.00000	-0.004505	0.015597	0.010408	
-3.66E-06	-0.023402	0.701112		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.025973	-0.049053	-0.019204	
1.38E-05	-0.055823	-2.520539		
0.25000	0.025973	-0.049053	-0.019204	
1.38E-05	-0.031948	-2.459557		
0.50000	0.025973	-0.049053	-0.019204	
1.38E-05	-0.008074	-2.398575		
0.75000	0.025973	-0.049053	-0.019204	
1.38E-05	0.015801	-2.337592		
1.00000	0.025973	-0.049053	-0.019204	
1.38E-05	0.039676	-2.276610		

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.098522	0.073876	-0.048882	
-2.38E-05	-0.110727	3.431185		
0.25000	-0.098522	0.073876	-0.048882	
-2.38E-05	-0.049957	3.339342		
0.50000	-0.098522	0.073876	-0.048882	
-2.38E-05	0.010813	3.247499		
0.75000	-0.098522	0.073876	-0.048882	
-2.38E-05	0.071582	3.155656		
1.00000	-0.098522	0.073876	-0.048882	
-2.38E-05	0.132352	3.063813		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.078946	-0.035778	0.064512	
1.41E-05	0.155763	-1.503360		
0.25000	0.078946	-0.035778	0.064512	
1.41E-05	0.075561	-1.458881		
0.50000	0.078946	-0.035778	0.064512	
1.41E-05	-0.004640	-1.414401		
0.75000	0.078946	-0.035778	0.064512	
1.41E-05	-0.084842	-1.369921		
1.00000	0.078946	-0.035778	0.064512	
1.41E-05	-0.165043	-1.325441		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.102546	0.090747	-0.036699	
-2.73E-05	-0.077803	4.260664		
0.25000	-0.102546	0.090747	-0.036699	
-2.73E-05	-0.032180	4.147847		
0.50000	-0.102546	0.090747	-0.036699	
-2.73E-05	0.013444	4.035030		
0.75000	-0.102546	0.090747	-0.036699	
-2.73E-05	0.059068	3.922212		
1.00000	-0.102546	0.090747	-0.036699	
-2.73E-05	0.104691	3.809395		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.102546	-0.090747	0.036699	
2.73E-05	0.077803	-4.260664		
0.25000	0.102546	-0.090747	0.036699	
2.73E-05	0.032180	-4.147847		
0.50000	0.102546	-0.090747	0.036699	
2.73E-05	-0.013444	-4.035030		
0.75000	0.102546	-0.090747	0.036699	
2.73E-05	-0.059068	-3.922212		
1.00000	0.102546	-0.090747	0.036699	
2.73E-05	-0.104691	-3.809395		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.102546	0.090747	0.064512	
2.73E-05	0.155763	4.260664		
0.25000	0.102546	0.090747	0.064512	
2.73E-05	0.075561	4.147847		
0.50000	0.102546	0.090747	0.064512	
2.73E-05	0.013444	4.035030		
0.75000	0.102546	0.090747	0.064512	
2.73E-05	0.071582	3.922212		
1.00000	0.102546	0.090747	0.064512	
2.73E-05	0.132352	3.809395		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.102546	-0.090747	-0.048882	
-2.73E-05	-0.110727	-4.260664		
0.25000	-0.102546	-0.090747	-0.048882	
-2.73E-05	-0.049957	-4.147847		
0.50000	-0.102546	-0.090747	-0.048882	
-2.73E-05	-0.013444	-4.035030		
0.75000	-0.102546	-0.090747	-0.048882	
-2.73E-05	-0.084842	-3.922212		
1.00000	-0.102546	-0.090747	-0.048882	
-2.73E-05	-0.165043	-3.809395		

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 421 ========== LENGTH = 4.972951

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.001998	0.000474	0.001421	
4.97E-08	0.003672	0.043994		
0.25000	0.001998	0.000474	0.001421	
4.97E-08	0.001905	0.043405		
0.50000	0.001998	0.000474	0.001421	
4.97E-08	0.000138	0.042815		
0.75000	0.001998	0.000474	0.001421	
4.97E-08	-0.001629	0.042225		
1.00000	0.001998	0.000474	0.001421	
4.97E-08	-0.003396	0.041636		

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.009433	-0.002192	-0.006930	
-2.29E-07	-0.017880	-0.205029		
0.25000	-0.009433	-0.002192	-0.006930	
-2.29E-07	-0.009264	-0.202303		
0.50000	-0.009433	-0.002192	-0.006930	
-2.29E-07	-0.000648	-0.199578		
0.75000	-0.009433	-0.002192	-0.006930	
-2.29E-07	0.007968	-0.196852		
1.00000	-0.009433	-0.002192	-0.006930	
-2.29E-07	0.016585	-0.194126		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.006472	0.009844	0.004803	
-1.96E-06	0.014173	0.698648		
0.25000	-0.006472	0.009844	0.004803	
-1.96E-06	0.008202	0.686609		
0.50000	-0.006472	0.009844	0.004803	
-1.96E-06	0.002231	0.674370		
0.75000	-0.006472	0.009844	0.004803	
-1.96E-06	-0.003740	0.662132		
1.00000	-0.006472	0.009844	0.004803	
-1.96E-06	-0.009711	0.649893		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.038372	-0.032689	-0.000817	
8.64E-06	-0.009321	-2.273647		
0.25000	0.038372	-0.032689	-0.000817	
8.64E-06	-0.008305	-2.233006		
0.50000	0.038372	-0.032689	-0.000817	
8.64E-06	-0.007289	-2.192366		
0.75000	0.038372	-0.032689	-0.000817	
8.64E-06	-0.006273	-2.151726		
1.00000	0.038372	-0.032689	-0.000817	
8.64E-06	-0.005258	-2.111086		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.091773	0.047464	-0.073608	
-2.00E-05	-0.173295	3.082204		
0.25000	-0.091773	0.047464	-0.073608	
-2.00E-05	-0.081782	3.023195		
0.50000	-0.091773	0.047464	-0.073608	
-2.00E-05	0.009730	2.964186		
0.75000	-0.091773	0.047464	-0.073608	
-2.00E-05	0.101242	2.905177		
1.00000	-0.091773	0.047464	-0.073608	
-2.00E-05	0.192754	2.846168		

LOAD -P5 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.067308	-0.022901	0.075131	
1.34E-05	0.182650	-1.346371		
0.25000	0.067308	-0.022901	0.075131	
1.34E-05	0.089244	-1.317899		
0.50000	0.067308	-0.022901	0.075131	
1.34E-05	-0.004162	-1.289428		

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL	DIST	P	V2	V3
	T	M2	M3	
0.75000	0.067308	-0.022901	0.075131	
1.34E-05	-0.097568	-1.260956		
1.00000	0.067308	-0.022901	0.075131	
1.34E-05	-0.190974	-1.232485		

LOAD -2N+1- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.096247	0.057783	-0.067384	
-2.19E-05	-0.155449	3.825047		
0.25000	-0.096247	0.057783	-0.067384	
-2.19E-05	-0.071675	3.753209		
0.50000	-0.096247	0.057783	-0.067384	
-2.19E-05	0.012099	3.681371		
0.75000	-0.096247	0.057783	-0.067384	
-2.19E-05	0.095873	3.609534		
1.00000	-0.096247	0.057783	-0.067384	
-2.19E-05	0.179647	3.537696		

LOAD -2N+2- ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.096247	-0.057783	0.067384	
2.19E-05	0.155449	-3.825047		
0.25000	0.096247	-0.057783	0.067384	
2.19E-05	0.071675	-3.753209		
0.50000	0.096247	-0.057783	0.067384	
2.19E-05	0.012099	-3.681371		
0.75000	0.096247	-0.057783	0.067384	
2.19E-05	-0.059573	-3.609534		
1.00000	0.096247	-0.057783	0.067384	
2.19E-05	-0.179647	-3.537696		

COMB SETTLE ---------- MAX

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.096247	0.057783	0.075131	
2.19E-05	0.182650	3.825047		
0.25000	0.096247	0.057783	0.075131	
2.19E-05	0.089244	3.753209		
0.50000	0.096247	0.057783	0.075131	
2.19E-05	0.012099	3.681371		
0.75000	0.096247	0.057783	0.075131	
2.19E-05	0.101242	3.609534		
1.00000	0.096247	0.057783	0.075131	
2.19E-05	0.192754	3.537696		

COMB SETTLE ---------- MIN

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.096247	-0.057783	-0.073608	
-2.19E-05	-0.173295	-3.825047		
0.25000	-0.096247	-0.057783	-0.073608	
-2.19E-05	-0.081782	-3.753209		
0.50000	-0.096247	-0.057783	-0.073608	
-2.19E-05	-0.012099	-3.681371		
0.75000	-0.096247	-0.057783	-0.073608	
-2.19E-05	-0.097568	-3.609534		
1.00000	-0.096247	-0.057783	-0.073608	
-2.19E-05	-0.190974	-3.537696		

ELEM 422 ========== LENGTH = 4.972416

LOAD -A1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.002640	0.001300	0.001119	
5.68E-08	0.002901	0.041255		
0.25000	0.002640	0.001300	0.001119	
5.68E-08	0.001509	0.039639		
0.50000	0.002640	0.001300	0.001119	
5.68E-08	0.000118	0.038024		
0.75000	0.002640	0.001300	0.001119	
5.68E-08	-0.001273	0.036409		
1.00000	0.002640	0.001300	0.001119	
5.68E-08	-0.002664	0.034793		

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.012419	-0.006040	-0.005497	
-2.63E-07	-0.014222	-0.192263		
0.25000	-0.012419	-0.006040	-0.005497	
-2.63E-07	-0.007389	-0.184755		
0.50000	-0.012419	-0.006040	-0.005497	
-2.63E-07	-0.000556	-0.177247		
0.75000	-0.012419	-0.006040	-0.005497	
-2.63E-07	0.006277	-0.169738		
1.00000	-0.012419	-0.006040	-0.005497	
-2.63E-07	0.013110	-0.162230		

LOAD -P2 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	-0.005847	0.020769	-0.000156	
-4.33E-07	0.001580	0.649217		
0.25000	-0.005847	0.020769	-0.000156	
-4.33E-07	0.001774	0.623398		
0.50000	-0.005847	0.020769	-0.000156	
-4.33E-07	0.001969	0.597580		
0.75000	-0.005847	0.020769	-0.000156	
-4.33E-07	0.002164	0.571762		
1.00000	-0.005847	0.020769	-0.000156	
-4.33E-07	0.002358	0.545944		

LOAD -P3 ----------

REL	DIST	P	V2	V3
	T	M2	M3	
0.00000	0.038576	-0.068036	0.015479	
3.82E-06	0.032040	-2.113356		
0.25000	0.038576	-0.068036	0.015479	
3.82E-06	0.012798	-2.028780		
0.50000	0.038576	-0.068036	0.015479	
3.82E-06	-0.006443	-1.944205		
0.75000	0.038576	-0.068036	0.015479	
3.82E-06	-0.025685	-1.859629		
1.00000	0.038576	-0.068036	0.015479	
3.82E-06	-0.044926	-1.775053		

LOAD -P4 ----------

REL	DIST	P	V2	V3
	T	M2	M3	

```
0.00000    -0.080885     0.096903    -0.095309
-1.49E-05   -0.228427     2.871535
0.25000    -0.080885     0.096903    -0.095309
-1.49E-05   -0.109949     2.751074
0.50000    -0.080885     0.096903    -0.095309
-1.49E-05    0.008530     2.630614
0.75000    -0.080885     0.096903    -0.095309
-1.49E-05    0.127008     2.510153
1.00000    -0.080885     0.096903    -0.095309
-1.49E-05    0.245487     2.389692

LOAD      -P5 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.057934     -0.044896      0.084364
 1.17E-05    0.206128     -1.256388
0.25000     0.057934     -0.044896      0.084364
 1.17E-05    0.101255     -1.205577
0.50000     0.057934     -0.044896      0.084364
 1.17E-05   -0.003618     -1.144766
0.75000     0.057934     -0.044896      0.084364
 1.17E-05   -0.108491     -1.088956
1.00000     0.057934     -0.044896      0.084364
 1.17E-05   -0.213365     -1.033145

LOAD   -2N+1- -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.084091      0.118972     -0.094346
-1.53E-05   -0.223946      3.562007
0.25000    -0.084091      0.118972     -0.094346
-1.53E-05   -0.106665      3.414112
0.50000    -0.084091      0.118972     -0.094346
-1.53E-05    0.010617      3.266218
0.75000    -0.084091      0.118972     -0.094346
-1.53E-05    0.127899      3.118323
1.00000    -0.084091      0.118972     -0.094346
-1.53E-05    0.245181      2.970428
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL                SETTLEMENT                >
                                                              807

F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

LOAD   -2N+2- -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.084091     -0.118972      0.094346
 1.53E-05    0.223946     -3.562007
0.25000     0.084091     -0.118972      0.094346
 1.53E-05    0.106665     -3.414112
0.50000     0.084091     -0.118972      0.094346
 1.53E-05   -0.010617     -3.266218
0.75000     0.084091     -0.118972      0.094346
 1.53E-05   -0.127899     -3.118323
1.00000     0.084091     -0.118972      0.094346
 1.53E-05   -0.245181     -2.970428

COMB   SETTLE -------------------- MAX

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.084091      0.118972      0.094346
1.53E-05    0.223946      3.562007
0.25000     0.084091      0.118972      0.094346
 1.53E-05    0.106665      3.414112
0.50000     0.084091      0.118972      0.094346
1.53E-05    0.010617      3.266218
0.75000     0.084091      0.118972      0.094346
1.53E-05    0.127899      3.118323
1.00000     0.084091      0.118972      0.094346
1.53E-05    0.245487      2.970428

COMB   SETTLE -------------------- MIN

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.084091     -0.118972     -0.095309
-1.53E-05   -0.228427     -3.562007
0.25000    -0.084091     -0.118972     -0.095309
-1.53E-05   -0.109949     -3.414112
0.50000    -0.084091     -0.118972     -0.095309
-1.53E-05   -0.010617     -3.266218
0.75000    -0.084091     -0.118972     -0.095309
-1.53E-05    0.127899     -3.118323
1.00000    -0.084091     -0.118972     -0.095309
-1.53E-05    0.245181     -2.970428

ELEM       423 ================== LENGTH
=    4.972811

LOAD      -A1 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.003358      0.001278      0.000877
1.04E-07    0.002273      0.034499
0.25000     0.003358      0.001278      0.000877
1.04E-07    0.001183      0.032909
0.50000     0.003358      0.001278      0.000877
1.04E-07    9.34E-05      0.031320
0.75000     0.003358      0.001278      0.000877
1.04E-07   -0.000996      0.029731
1.00000     0.003358      0.001278      0.000877
1.04E-07   -0.002086      0.028141

LOAD      -P1 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.015743     -0.005943     -0.004345
-4.82E-07   -0.011243     -0.160776
0.25000    -0.015743     -0.005943     -0.004345
-4.82E-07   -0.153588     -0.153388
0.50000    -0.015743     -0.005943     -0.004345
-4.82E-07   -0.000439     -0.145999
0.75000    -0.015743     -0.005943     -0.004345
-4.82E-07    0.004963     -0.138611
1.00000    -0.015743     -0.005943     -0.004345
-4.82E-07    0.010365     -0.131222

LOAD      -P2 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.003966      0.020891     -0.004366
 8.11E-07   -0.009240      0.546638
0.25000    -0.003966      0.020891     -0.004366
 8.11E-07   -0.003812      0.520666
0.50000    -0.003966      0.020891     -0.004366
 8.11E-07    0.001616      0.494693
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL                SETTLEMENT                >
                                                              808

F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
0.75000    -0.003966      0.020891     -0.004366
 8.11E-07    0.007044      0.468721
1.00000    -0.003966      0.020891     -0.004366
 8.11E-07    0.012472      0.442749

LOAD      -P3 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.034632     -0.068746      0.029346
-1.78E-07    0.067660     -1.781799
0.25000     0.034632     -0.068746      0.029346
-1.78E-07    0.031178     -1.696334
0.50000     0.034632     -0.068746      0.029346
-1.78E-07   -0.005305     -1.610869
0.75000     0.034632     -0.068746      0.029346
-1.78E-07   -0.041788     -1.525405
1.00000     0.034632     -0.068746      0.029346
-1.78E-07   -0.078270     -1.439940

LOAD      -P4 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.063129      0.097720     -0.113495
-1.02E-05   -0.275205      2.421013
0.25000    -0.063129      0.097720     -0.113495
-1.02E-05   -0.134108      2.299527
0.50000    -0.063129      0.097720     -0.113495
-1.02E-05    0.006990      2.178041
0.75000    -0.063129      0.097720     -0.113495
-1.02E-05    0.148087      2.056554
1.00000    -0.063129      0.097720     -0.113495
-1.02E-05    0.289184      1.935068

LOAD      -P5 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.044848     -0.045201      0.091984
 9.90E-06    0.225754     -1.059574
0.25000     0.044848     -0.045201      0.091984
 9.90E-06    0.111400     -1.003380
0.50000     0.044848     -0.045201      0.091984
 9.90E-06   -0.002955     -0.947185
0.75000     0.044848     -0.045201      0.091984
 9.90E-06   -0.117310     -0.890991
1.00000     0.044848     -0.045201      0.091984
 9.90E-06   -0.231664     -0.834797

LOAD   -2N+1- -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.063737      0.119890     -0.116985
-9.24E-06   -0.282172      3.002150
0.25000    -0.063737      0.119890     -0.116985
-9.24E-06   -0.136736      2.853102
0.50000    -0.063737      0.119890     -0.116985
-9.24E-06    0.008699      2.704054
0.75000    -0.063737      0.119890     -0.116985
-9.24E-06    0.154134      2.555006
1.00000    -0.063737      0.119890     -0.116985
-9.24E-06    0.299570      2.405959

LOAD   -2N+2- -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.063737     -0.119890      0.116985
 9.24E-06    0.282172     -3.002150
0.25000     0.063737     -0.119890      0.116985
 9.24E-06    0.136736     -2.853102
0.50000     0.063737     -0.119890      0.116985
 9.24E-06   -0.008699     -2.704054
0.75000     0.063737     -0.119890      0.116985
 9.24E-06   -0.154134     -2.555006
1.00000     0.063737     -0.119890      0.116985
 9.24E-06   -0.299570     -2.405959

COMB   SETTLE -------------------- MAX

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.063737      0.119890      0.116985
9.90E-06    0.282172      3.002150
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL                SETTLEMENT                >
                                                              809

F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
0.25000     0.063737      0.119890      0.116985
9.90E-06    0.136736      2.853102
0.50000     0.063737      0.119890      0.116985
9.90E-06    0.008699      2.704054
0.75000     0.063737      0.119890      0.116985
9.90E-06    0.154134      2.555006
1.00000     0.063737      0.119890      0.116985
9.90E-06    0.299570      2.405959

COMB   SETTLE -------------------- MIN

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.063737     -0.119890     -0.116985
-1.02E-05   -0.282172     -3.002150
0.25000    -0.063737     -0.119890     -0.116985
-1.02E-05   -0.136736     -2.853102
0.50000    -0.063737     -0.119890     -0.116985
-1.02E-05   -0.008699     -2.704054
0.75000    -0.063737     -0.119890     -0.116985
-1.02E-05   -0.154134     -2.555006
1.00000    -0.063737     -0.119890     -0.116985
-1.02E-05   -0.299570     -2.405959

ELEM       424 ================== LENGTH
=    4.973321

LOAD      -A1 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.004598      0.001296      0.000687
1.52E-07    0.001782      0.027911
0.25000     0.004598      0.001296      0.000687
1.52E-07    0.000927      0.026300
0.50000     0.004598      0.001296      0.000687
1.52E-07    7.31E-05      0.024689
0.75000     0.004598      0.001296      0.000687
1.52E-07   -0.000781      0.023078
1.00000     0.004598      0.001296      0.000687
1.52E-07   -0.001635      0.021467

LOAD      -P1 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.021482     -0.006025     -0.003443
-7.05E-07   -0.008906     -0.130073
0.25000    -0.021482     -0.006025     -0.003443
-7.05E-07   -0.004625     -0.122582
0.50000    -0.021482     -0.006025     -0.003443
-7.05E-07   -0.000344     -0.115091
0.75000    -0.021482     -0.006025     -0.003443
-7.05E-07    0.003937     -0.107600
1.00000    -0.021482     -0.006025     -0.003443
-7.05E-07    0.008219     -0.100110

LOAD      -P2 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.001312      0.021246     -0.007737
 1.90E-06   -0.017968      0.444579
0.25000    -0.001312      0.021246     -0.007737
 1.90E-06   -0.008348      0.418163
0.50000    -0.001312      0.021246     -0.007737
 1.90E-06    0.001272      0.391748
0.75000    -0.001312      0.021246     -0.007737
 1.90E-06    0.010892      0.365332
1.00000    -0.001312      0.021246     -0.007737
 1.90E-06    0.020512      0.338916

LOAD      -P3 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.030209     -0.070020      0.040447
-3.73E-06    0.096406     -1.450431
0.25000     0.030209     -0.070020      0.040447
-3.73E-06    0.046117     -1.363372
0.50000     0.030209     -0.070020      0.040447
-3.73E-06   -0.004171     -1.276314
0.75000     0.030209     -0.070020      0.040447
-3.73E-06   -0.054460     -1.189256
1.00000     0.030209     -0.070020      0.040447
-3.73E-06   -0.104748     -1.102198
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL                SETTLEMENT                >
                                                              810

F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

LOAD      -P4 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.040345      0.099509     -0.127856
-5.95E-06   -0.312493      1.971276
0.25000    -0.040345      0.099509     -0.127856
-5.95E-06   -0.153525      1.847554
0.50000    -0.040345      0.099509     -0.127856
-5.95E-06    0.005442      1.723832
0.75000    -0.040345      0.099509     -0.127856
-5.95E-06    0.164409      1.600110
1.00000    -0.040345      0.099509     -0.127856
-5.95E-06    0.323376      1.476388

LOAD      -P5 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.028332     -0.046005      0.097903
 8.33E-06    0.241179     -0.863262
0.25000     0.028332     -0.046005      0.097903
 8.33E-06    0.119453     -0.806063
0.50000     0.028332     -0.046005      0.097903
 8.33E-06   -0.002272     -0.748863
0.75000     0.028332     -0.046005      0.097903
 8.33E-06   -0.123998     -0.691663
1.00000     0.028332     -0.046005      0.097903
 8.33E-06   -0.245723     -0.634464

LOAD   -2N+1- -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.037060      0.122050     -0.134906
-3.89E-06   -0.328679      2.443766
0.25000    -0.037060      0.122050     -0.134906
-3.89E-06   -0.160946      2.292017
0.50000    -0.037060      0.122050     -0.134906
-3.89E-06    0.006787      2.140269
0.75000    -0.037060      0.122050     -0.134906
-3.89E-06    0.174520      1.988520
1.00000    -0.037060      0.122050     -0.134906
-3.89E-06    0.342253      1.836772

LOAD   -2N+2- -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.037060     -0.122050      0.134906
 3.89E-06    0.328679     -2.443766
0.25000     0.037060     -0.122050      0.134906
 3.89E-06    0.160946     -2.292017
0.50000     0.037060     -0.122050      0.134906
 3.89E-06    0.006787     -2.140269
0.75000     0.037060     -0.122050      0.134906
 3.89E-06    0.174520     -1.988520
1.00000     0.037060     -0.122050      0.134906
 3.89E-06    0.342253     -1.836772

COMB   SETTLE -------------------- MAX

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.037060      0.122050      0.134906
8.33E-06    0.328679      2.443766
0.25000     0.037060      0.122050      0.134906
8.33E-06    0.160946      2.292017
0.50000     0.037060      0.122050      0.134906
8.33E-06    0.006787      2.140269
0.75000     0.037060      0.122050      0.134906
8.33E-06    0.174520      1.988520
1.00000     0.037060      0.122050      0.134906
8.33E-06    0.342253      1.836772

COMB   SETTLE -------------------- MIN

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.040345     -0.122050     -0.134906
-5.95E-06   -0.328679     -2.443766
0.25000    -0.040345     -0.122050     -0.134906
-5.95E-06   -0.160946     -2.292017
0.50000    -0.040345     -0.122050     -0.134906
-5.95E-06   -0.006787     -2.140269
0.75000    -0.040345     -0.122050     -0.134906
-5.95E-06   -0.174520     -1.988520
1.00000    -0.040345     -0.122050     -0.134906
-5.95E-06   -0.342253     -1.836772
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL                SETTLEMENT                >
                                                              811

F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

ELEM       425 ================== LENGTH
=    4.972184

LOAD      -A1 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.006239      0.001349      0.000532
1.55E-07    0.001378      0.021310
0.25000     0.006239      0.001349      0.000532
1.55E-07    0.000716      0.019634
0.50000     0.006239      0.001349      0.000532
1.55E-07    5.54E-05      0.017957
0.75000     0.006239      0.001349      0.000532
1.55E-07   -0.000606      0.016281
1.00000     0.006239      0.001349      0.000532
1.55E-07   -0.001267      0.014604

LOAD      -P1 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.029091     -0.006272     -0.002705
-7.19E-07   -0.006986     -0.099307
0.25000    -0.029091     -0.006272     -0.002705
-7.19E-07   -0.003623     -0.091511
0.50000    -0.029091     -0.006272     -0.002705
-7.19E-07   -0.000261     -0.083715
0.75000    -0.029091     -0.006272     -0.002705
-7.19E-07    0.003102     -0.075919
1.00000    -0.029091     -0.006272     -0.002705
-7.19E-07    0.006465     -0.068122

LOAD      -P2 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.001677      0.021081     -0.010293
 2.89E-06   -0.024669      0.341629
0.25000     0.001677      0.021081     -0.010293
 2.89E-06   -0.011874      0.315424
0.50000     0.001677      0.021081     -0.010293
 2.89E-06    0.000920      0.289220
0.75000     0.001677      0.021081     -0.010293
 2.89E-06    0.013715      0.263016
1.00000     0.001677      0.021081     -0.010293
 2.89E-06    0.026509      0.236812

LOAD      -P3 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.026397     -0.069237      0.048783
-7.08E-06    0.118284     -1.165472
0.25000     0.026397     -0.069237      0.048783
-7.08E-06    0.057644     -1.029408
0.50000     0.026397     -0.069237      0.048783
-7.08E-06   -0.002995     -0.943343
0.75000     0.026397     -0.069237      0.048783
-7.08E-06   -0.063635     -0.857278
1.00000     0.026397     -0.069237      0.048783
-7.08E-06   -0.124274     -0.771214

LOAD      -P4 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.015586      0.099022     -0.138542
-2.82E-06   -0.340590      1.516393
0.25000    -0.015586      0.099022     -0.138542
-2.82E-06   -0.168377      1.393304
0.50000    -0.015586      0.099022     -0.138542
-2.82E-06    0.003837      1.270214
0.75000    -0.015586      0.099022     -0.138542
-2.82E-06    0.176051      1.147125
1.00000    -0.015586      0.099022     -0.138542
-2.82E-06    0.348264      1.024036

LOAD      -P5 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.010364     -0.045943      0.102225
 7.57E-06    0.252584     -0.664553
0.25000     0.010364     -0.045943      0.102225
 7.57E-06    0.125514     -0.607443
0.50000     0.010364     -0.045943      0.102225
 7.57E-06   -0.001557     -0.550334
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL                SETTLEMENT                >
                                                              812

F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
0.75000     0.010364     -0.045943      0.102225
 7.57E-06   -0.128627     -0.493225
1.00000     0.010364     -0.045943      0.102225
 7.57E-06   -0.255698     -0.436116

LOAD   -2N+1- -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.007670      0.121452     -0.148303
 2.24E-07   -0.363881      1.879332
0.25000    -0.007670      0.121452     -0.148303
 2.24E-07   -0.179534      1.728362
0.50000    -0.007670      0.121452     -0.148303
 2.24E-07    0.004813      1.577392
0.75000    -0.007670      0.121452     -0.148303
 2.24E-07    0.189160      1.426422
1.00000    -0.007670      0.121452     -0.148303
 2.24E-07    0.373507      1.275452

LOAD   -2N+2- -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.007670     -0.121452      0.148303
-2.24E-07    0.363881     -1.879332
0.25000     0.007670     -0.121452      0.148303
-2.24E-07    0.179534     -1.728362
0.50000     0.007670     -0.121452      0.148303
-2.24E-07   -0.004813     -1.577392
0.75000     0.007670     -0.121452      0.148303
-2.24E-07   -0.189160     -1.426422
1.00000     0.007670     -0.121452      0.148303
-2.24E-07   -0.373507     -1.275452

COMB   SETTLE -------------------- MAX

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.026397      0.121452      0.148303
7.57E-06    0.363881      1.879332
0.25000     0.026397      0.121452      0.148303
7.57E-06    0.179534      1.728362
0.50000     0.026397      0.121452      0.148303
7.57E-06    0.004813      1.577392
0.75000     0.026397      0.121452      0.148303
7.57E-06    0.189160      1.426422
1.00000     0.026397      0.121452      0.148303
7.57E-06    0.373507      1.275452

COMB   SETTLE -------------------- MIN

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.029091     -0.121452     -0.148303
-7.08E-06   -0.363881     -1.879332
0.25000    -0.029091     -0.121452     -0.148303
-7.08E-06   -0.179534     -1.728362
0.50000    -0.029091     -0.121452     -0.148303
-7.08E-06   -0.004813     -1.577392
0.75000    -0.029091     -0.121452     -0.148303
-7.08E-06   -0.189160     -1.426422
1.00000    -0.029091     -0.121452     -0.148303
-7.08E-06   -0.373507     -1.275452

ELEM       426 ================== LENGTH
=    4.972939

LOAD      -A1 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.007514      0.000765      0.000397
7.59E-09    0.001028      0.014438
0.25000     0.007514      0.000765      0.000397
7.59E-09    0.000534      0.013487
0.50000     0.007514      0.000765      0.000397
7.59E-09    4.02E-05      0.012535
0.75000     0.007514      0.000765      0.000397
7.59E-09   -0.000454      0.011584
1.00000     0.007514      0.000765      0.000397
7.59E-09   -0.000948      0.010632
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                        Page
<              UNEQUAL                SETTLEMENT                >
                                                              813

F R A M E    E L E M E N T    I N T E R N A
L    F O R C E S

LOAD      -P1 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.034986     -0.003557     -0.002070
-3.62E-08   -0.005335     -0.067282
0.25000    -0.034986     -0.003557     -0.002070
-3.62E-08   -0.002761     -0.062860
0.50000    -0.034986     -0.003557     -0.002070
-3.62E-08   -0.000187     -0.058438
0.75000    -0.034986     -0.003557     -0.002070
-3.62E-08    0.002386     -0.054017
1.00000    -0.034986     -0.003557     -0.002070
-3.62E-08    0.004960     -0.049595

LOAD      -P2 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.004439      0.014738     -0.012254
 3.60E-06   -0.029701      0.240193
0.25000     0.004439      0.014738     -0.012254
 3.60E-06   -0.014466      0.221871
0.50000     0.004439      0.014738     -0.012254
 3.60E-06    0.000769      0.203548
0.75000     0.004439      0.014738     -0.012254
 3.60E-06    0.016004      0.185226
1.00000     0.004439      0.014738     -0.012254
 3.60E-06    0.031239      0.166904

LOAD      -P3 -------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.021447     -0.049453      0.055171
-1.00E-05    0.134569     -0.786916
0.25000     0.021447     -0.049453      0.055171
```

```
-1.00E-05     0.065979    -0.725435
 0.50000      0.021447    -0.049453      0.055171
-1.00E-05    -0.002611    -0.663954
 0.75000      0.021447    -0.049453      0.055171
-1.00E-05    -0.071202    -0.602472
 1.00000      0.021447    -0.049453      0.055171
-1.00E-05    -0.139792    -0.540991

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.009260    0.070748    -0.147392
-1.66E-06   -0.362494    1.066692
 0.25000     0.009260    0.070748    -0.147392
-1.66E-06   -0.179252    0.978736
 0.50000     0.009260    0.070748    -0.147392
-1.66E-06    0.003991    0.890780
 0.75000     0.009260    0.070748    -0.147392
-1.66E-06    0.187233    0.802823
 1.00000     0.009260    0.070748    -0.147392
-1.66E-06    0.370475    0.714867

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.007674   -0.033242     0.106148
 8.13E-06    0.261933   -0.467126
 0.25000    -0.007674   -0.033242     0.106148
 8.13E-06    0.129966   -0.425799
 0.50000    -0.007674   -0.033242     0.106148
 8.13E-06   -0.002001   -0.384471
 0.75000    -0.007674   -0.033242     0.106148
 8.13E-06   -0.133968   -0.343144
 1.00000    -0.007674   -0.033242     0.106148
 8.13E-06   -0.265934   -0.301817

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.021213    0.086251    -0.159249
 1.95E-06   -0.391167    1.321323
 0.25000     0.021213    0.086251    -0.159249
 1.95E-06   -0.193183    1.214093
 0.50000     0.021213    0.086251    -0.159249
 1.95E-06    0.004800    1.106863
 0.75000     0.021213    0.086251    -0.159249
 1.95E-06    0.202783    0.999633
 1.00000     0.021213    0.086251    -0.159249
 1.95E-06    0.400766    0.892403
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                    Page
<              UNEQUAL              SETTLEMENT              >
                                      814

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.021213   -0.086251     0.159249
-1.95E-06    0.391167   -1.321323
 0.25000    -0.021213   -0.086251     0.159249
-1.95E-06    0.193183   -1.214093
 0.50000    -0.021213   -0.086251     0.159249
-1.95E-06   -0.004800   -1.106863
 0.75000    -0.021213   -0.086251     0.159249
-1.95E-06   -0.202783   -0.999633
 1.00000    -0.021213   -0.086251     0.159249
-1.95E-06   -0.400766   -0.892403

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.021447    0.086251     0.159249
 8.13E-06    0.391167    1.321323
 0.25000     0.021447    0.086251     0.159249
 8.13E-06    0.193183    1.214093
 0.50000     0.021447    0.086251     0.159249
 8.13E-06    0.004800    1.106863
 0.75000     0.021447    0.086251     0.159249
 8.13E-06    0.202783    0.999633
 1.00000     0.021447    0.086251     0.159249
 8.13E-06    0.400766    0.892403

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.034986   -0.086251    -0.159249
-1.00E-05   -0.391167   -1.321323
 0.25000    -0.034986   -0.086251    -0.159249
-1.00E-05   -0.193183   -1.214093
 0.50000    -0.034986   -0.086251    -0.159249
-1.00E-05   -0.004800   -1.106863
 0.75000    -0.034986   -0.086251    -0.159249
-1.00E-05   -0.202783   -0.999633
 1.00000    -0.034986   -0.086251    -0.159249
-1.00E-05   -0.400766   -0.892403

ELEM       427 ================== LENGTH
=     4.972939

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.006898    0.002547     0.000256
-4.84E-07    0.000687    0.010533
 0.25000     0.006898    0.002547     0.000256
-4.84E-07    0.000369    0.007367
 0.50000     0.006898    0.002547     0.000256
-4.84E-07    5.09E-05    0.004201
 0.75000     0.006898    0.002547     0.000256
-4.84E-07   -0.000267    0.001034
 1.00000     0.006898    0.002547     0.000256
-4.84E-07   -0.000586   -0.002132

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.032099   -0.011844    -0.001373
 2.25E-06   -0.003681   -0.049070
 0.25000    -0.032099   -0.011844    -0.001373
 2.25E-06   -0.001973   -0.034345
 0.50000    -0.032099   -0.011844    -0.001373
 2.25E-06   -0.000266   -0.019621
 0.75000    -0.032099   -0.011844    -0.001373
 2.25E-06    0.001441   -0.004897
 1.00000    -0.032099   -0.011844    -0.001373
 2.25E-06    0.003148    0.009827

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.005062    0.026209    -0.011314
 4.05E-06   -0.029666    0.170570
 0.25000     0.005062    0.026209    -0.011314
 4.05E-06   -0.015600    0.137986
 0.50000     0.005062    0.026209    -0.011314
 4.05E-06   -0.001533    0.105402
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                    Page
<              UNEQUAL              SETTLEMENT              >
                                      815

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.75000     0.005062    0.026209     0.011314
 4.05E-06    0.012533    0.072819
 1.00000     0.005062    0.026209     0.011314
 4.05E-06    0.026599    0.040235

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.015466   -0.081709     0.049649
-1.34E-05    0.130464   -0.557262
 0.25000     0.015466   -0.081709     0.049649
-1.34E-05    0.068739   -0.455679
 0.50000     0.015466   -0.081709     0.049649
-1.34E-05    0.007013   -0.354096
 0.75000     0.015466   -0.081709     0.049649
-1.34E-05   -0.054712   -0.252513
 1.00000     0.015466   -0.081709     0.049649
-1.34E-05   -0.116437   -0.150930

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.019884    0.122196    -0.128621
-3.98E-06   -0.339257    0.757580
 0.25000     0.019884    0.122196    -0.128621
-3.98E-06   -0.179351    0.605661
 0.50000     0.019884    0.122196    -0.128621
-3.98E-06   -0.019446    0.453743
 0.75000     0.019884    0.122196    -0.128621
-3.98E-06    0.140460    0.301824
 1.00000     0.019884    0.122196    -0.128621
-3.98E-06    0.300365    0.149906

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.015211   -0.057400     0.091403
 1.16E-05    0.241452   -0.332351
 0.25000    -0.015211   -0.057400     0.091403
 1.16E-05    0.127817   -0.260990
 0.50000    -0.015211   -0.057400     0.091403
 1.16E-05    0.014181   -0.189629
 0.75000    -0.015211   -0.057400     0.091403
 1.16E-05   -0.099454   -0.118267
 1.00000    -0.015211   -0.057400     0.091403
 1.16E-05   -0.213089   -0.046906

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.031844    0.150952    -0.139679
-4.19E-07   -0.368235    0.938682
 0.25000     0.031844    0.150952    -0.139679
-4.19E-07   -0.194582    0.751014
 0.50000     0.031844    0.150952    -0.139679
-4.19E-07   -0.020928    0.563346
 0.75000     0.031844    0.150952    -0.139679
-4.19E-07    0.152725    0.375677
 1.00000     0.031844    0.150952    -0.139679
-4.19E-07    0.326379    0.188009

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.031844   -0.150952     0.139679
 4.19E-07    0.368235   -0.938682
 0.25000    -0.031844   -0.150952     0.139679
 4.19E-07    0.194582   -0.751014
 0.50000    -0.031844   -0.150952     0.139679
 4.19E-07    0.020928   -0.563346
 0.75000    -0.031844   -0.150952     0.139679
 4.19E-07   -0.152725   -0.375677
 1.00000    -0.031844   -0.150952     0.139679
 4.19E-07   -0.326379   -0.188009

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.031844    0.150952     0.139679
 1.16E-05    0.368235    0.938682
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                    Page
<              UNEQUAL              SETTLEMENT              >
                                      816

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.25000     0.031844    0.150952     0.139679
 1.16E-05    0.194582    0.751014
 0.50000     0.031844    0.150952     0.139679
 1.16E-05    0.020928    0.563346
 0.75000     0.031844    0.150952     0.139679
 1.16E-05    0.152725    0.375677
 1.00000     0.031844    0.150952     0.139679
 1.16E-05    0.326379    0.188009

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.032099   -0.150952    -0.139679
-1.34E-05   -0.368235   -0.938682
 0.25000    -0.032099   -0.150952    -0.139679
-1.34E-05   -0.194582   -0.751014
 0.50000    -0.032099   -0.150952    -0.139679
-1.34E-05   -0.020928   -0.563346
 0.75000    -0.032099   -0.150952    -0.139679
-1.34E-05    0.152725   -0.375677
 1.00000    -0.032099   -0.150952    -0.139679
-1.34E-05   -0.326379   -0.188009

ELEM       428 ================== LENGTH
=     1.491642

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.003605   -0.001579     0.002129
-1.03E-06    0.001516   -0.002262
 0.25000     0.003605   -0.001579     0.002129
-1.03E-06    0.000722   -0.001673
 0.50000     0.003605   -0.001579     0.002129
-1.03E-06   -7.19E-05   -0.001084
 0.75000     0.003605   -0.001579     0.002129
-1.03E-06   -0.000866   -0.000495
 1.00000     0.003605   -0.001579     0.002129
-1.03E-06   -0.001659    9.40E-05

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.016774    0.007409    -0.011648
 4.77E-06   -0.008307    0.010534
 0.25000    -0.016774    0.007409    -0.011648
 4.77E-06   -0.003964    0.007771
 0.50000    -0.016774    0.007409    -0.011648
 4.77E-06    0.000380    0.005008
 0.75000    -0.016774    0.007409    -0.011648
 4.77E-06    0.004724    0.002245
 1.00000    -0.016774    0.007409    -0.011648
 4.77E-06    0.009068   -0.000518

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.002646    0.034899    -0.114005
 5.75E-06   -0.082054    0.046763
 0.25000     0.002646    0.034899    -0.114005
 5.75E-06   -0.039540    0.033749
 0.50000     0.002646    0.034899    -0.114005
 5.75E-06    0.002973    0.020735
 0.75000     0.002646    0.034899    -0.114005
 5.75E-06    0.045487    0.007720
 1.00000     0.002646    0.034899    -0.114005
 5.75E-06    0.088001   -0.005294

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.008078   -0.135632     0.495040
-2.04E-05    0.356221   -0.179348
 0.25000     0.008078   -0.135632     0.495040
-2.04E-05    0.171615   -0.128769
 0.50000     0.008078   -0.135632     0.495040
-2.04E-05   -0.012990   -0.078190
 0.75000     0.008078   -0.135632     0.495040
-2.04E-05   -0.197596   -0.027612
 1.00000     0.008078   -0.135632     0.495040
-2.04E-05   -0.382201    0.022967
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                    Page
<              UNEQUAL              SETTLEMENT              >
                                      817

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.010424    0.188732    -1.266008
-8.32E-06   -0.911196    0.222710
 0.25000     0.010424    0.188732    -1.266008
-8.32E-06   -0.439089    0.152330
 0.50000     0.010424    0.188732    -1.266008
-8.32E-06    0.033019    0.081950
 0.75000     0.010424    0.188732    -1.266008
-8.32E-06    0.505127    0.011570
 1.00000     0.010424    0.188732    -1.266008
-8.32E-06    0.977234   -0.058811

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.007979   -0.093829     0.894493
 1.92E-05    0.643821   -0.098398
 0.25000    -0.007979   -0.093829     0.894493
 1.92E-05    0.310255   -0.063408
 0.50000    -0.007979   -0.093829     0.894493
 1.92E-05   -0.023311   -0.028418
 0.75000    -0.007979   -0.093829     0.894493
 1.92E-05   -0.356877    0.006572
 1.00000    -0.007979   -0.093829     0.894493
 1.92E-05   -0.690443    0.041562

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.016674    0.222052    -1.377885
-3.59E-06   -0.991735    0.267212
 0.25000     0.016674    0.222052    -1.377885
-3.59E-06   -0.477907    0.184406
 0.50000     0.016674    0.222052    -1.377885
-3.59E-06    0.035921    0.101601
 0.75000     0.016674    0.222052    -1.377885
-3.59E-06    0.549748    0.018795
 1.00000     0.016674    0.222052    -1.377885
-3.59E-06    1.063576   -0.064011

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.016674   -0.222052     1.377885
 3.59E-06    0.991735   -0.267212
 0.25000    -0.016674   -0.222052     1.377885
 3.59E-06    0.477907   -0.184406
 0.50000    -0.016674   -0.222052     1.377885
 3.59E-06   -0.035921   -0.101601
 0.75000    -0.016674   -0.222052     1.377885
 3.59E-06   -0.549748   -0.018795
 1.00000    -0.016674   -0.222052     1.377885
 3.59E-06   -1.063576    0.064011

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.016674    0.222052     1.377885
 1.92E-05    0.991735    0.267212
 0.25000     0.016674    0.222052     1.377885
 1.92E-05    0.477907    0.184406
 0.50000     0.016674    0.222052     1.377885
 1.92E-05    0.035921    0.101601
 0.75000     0.016674    0.222052     1.377885
 1.92E-05    0.549748    0.018795
 1.00000     0.016674    0.222052     1.377885
 1.92E-05    1.063576    0.064011

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.016774   -0.222052    -1.377885
-2.04E-05   -0.991735   -0.267212
 0.25000    -0.016774   -0.222052    -1.377885
-2.04E-05   -0.477907   -0.184406
 0.50000    -0.016774   -0.222052    -1.377885
-2.04E-05   -0.035921   -0.101601
 0.75000    -0.016774   -0.222052    -1.377885
-2.04E-05    0.549748   -0.018795
 1.00000    -0.016774   -0.222052    -1.377885
-2.04E-05    1.063576   -0.064011
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                    Page
<              UNEQUAL              SETTLEMENT              >
                                      818

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       429 ================== LENGTH
=     4.449003

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.003687    0.089094    -0.179773
-1.45E-06   -0.414305    0.025030
 0.25000    -0.003687    0.089094    -0.179773
-1.45E-06   -0.214352   -0.074065
 0.50000    -0.003687    0.089094    -0.179773
-1.45E-06   -0.014399   -0.173160
 0.75000    -0.003687    0.089094    -0.179773
-1.45E-06    0.185554   -0.272255
 1.00000    -0.003687    0.089094    -0.179773
-1.45E-06    0.385507   -0.371351

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.000173   -0.176171     0.225349
-1.56E-05    0.519750   -0.031433
 0.25000    -0.000173   -0.176171     0.225349
-1.56E-05    0.269105    0.164513
 0.50000    -0.000173   -0.176171     0.225349
-1.56E-05    0.018460    0.360460
 0.75000    -0.000173   -0.176171     0.225349
-1.56E-05   -0.232185    0.556407
 1.00000    -0.000173   -0.176171     0.225349
-1.56E-05   -0.482830    0.752353

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.000887    0.110582    -0.060654
 1.69E-05   -0.140401    0.008458
 0.25000     0.000887    0.110582    -0.060654
 1.69E-05   -0.072939   -0.114537
 0.50000     0.000887    0.110582    -0.060654
 1.69E-05   -0.005477   -0.237531
 0.75000     0.000887    0.110582    -0.060654
 1.69E-05    0.061985   -0.360526
 1.00000     0.000887    0.110582    -0.060654
 1.69E-05    0.129447   -0.483520

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.003911   -0.030564     0.019109
 2.45E-07    0.044310   -0.002603
 0.25000     0.003911   -0.030564     0.019109
 2.45E-07    0.023056    0.031393
 0.50000     0.003911   -0.030564     0.019109
 2.45E-07    0.001802    0.065388
 0.75000     0.003911   -0.030564     0.019109
 2.45E-07   -0.019452    0.099383
 1.00000     0.003911   -0.030564     0.019109
 2.45E-07   -0.040706    0.133378

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.001011    0.008630    -0.004310
 3.04E-08   -0.010013    0.000584
 0.25000    -0.001011    0.008630    -0.004310
 3.04E-08   -0.005219   -0.009014
 0.50000    -0.001011    0.008630    -0.004310
 3.04E-08   -0.000425   -0.018612
 0.75000    -0.001011    0.008630    -0.004310
 3.04E-08    0.004369   -0.028211
 1.00000    -0.001011    0.008630    -0.004310
 3.04E-08    0.009163   -0.037809

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     7.28E-05   -0.001570     0.000279
-6.04E-08    0.000658   -3.61E-05
 0.25000     7.28E-05   -0.001570     0.000279
-6.04E-08    0.000348    0.001710
 0.50000     7.28E-05   -0.001570     0.000279
-6.04E-08    3.84E-05    0.003456
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                    Page
<              UNEQUAL              SETTLEMENT              >
                                      819

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.75000     7.28E-05   -0.001570     0.000279
-6.04E-08   -0.000272    0.005202
 1.00000     7.28E-05   -0.001570     0.000279
-6.04E-08   -0.000582    0.006948

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.003811    0.208305    -0.244737
 1.55E-05   -0.564718    0.034072
 0.25000    -0.003811    0.208305    -0.244737
 1.55E-05   -0.292509   -0.197616
 0.50000    -0.003811    0.208305    -0.244737
 1.55E-05   -0.020300    0.429304
 0.75000    -0.003811    0.208305    -0.244737
 1.55E-05    0.251909   -0.660992
 1.00000    -0.003811    0.208305    -0.244737
 1.55E-05    0.524118   -0.892680

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.003811   -0.208305     0.244737
-1.55E-05    0.564718   -0.034072
 0.25000     0.003811   -0.208305     0.244737
-1.55E-05    0.292509    0.197616
 0.50000     0.003811   -0.208305     0.244737
-1.55E-05    0.020300   -0.429304
 0.75000     0.003811   -0.208305     0.244737
-1.55E-05   -0.251909    0.660992
 1.00000     0.003811   -0.208305     0.244737
-1.55E-05   -0.524118    0.892680

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.003911    0.208305     0.244737
 1.69E-05    0.564718    0.034072
 0.25000     0.003911    0.208305     0.244737
 1.69E-05    0.292509    0.197616
 0.50000     0.003911    0.208305     0.244737
 1.69E-05    0.020300    0.429304
 0.75000     0.003911    0.208305     0.244737
 1.69E-05    0.251909    0.660992
 1.00000     0.003911    0.208305     0.244737
 1.69E-05    0.524118    0.892680

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.003811   -0.208305    -0.244737
-1.56E-05   -0.564718   -0.034072
 0.25000    -0.003811   -0.208305    -0.244737
-1.56E-05   -0.292509   -0.197616
 0.50000    -0.003811   -0.208305    -0.244737
-1.56E-05   -0.020300   -0.429304
 0.75000    -0.003811   -0.208305    -0.244737
-1.56E-05    0.251909   -0.660992
 1.00000    -0.003811   -0.208305    -0.244737
-1.56E-05    0.524118   -0.892680

ELEM       430 ================== LENGTH
=     4.942978

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.011639    0.050944    -0.132272
-8.01E-06   -0.325948    0.328167
 0.25000    -0.011639    0.050944    -0.132272
-8.01E-06   -0.162493    0.391122
 0.50000    -0.011639    0.050944    -0.132272
-8.01E-06    0.000961   -0.454076
 0.75000    -0.011639    0.050944    -0.132272
-8.01E-06    0.164416   -0.517030
 1.00000    -0.011639    0.050944    -0.132272
-8.01E-06    0.327870   -0.579984
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                    Page
<              UNEQUAL              SETTLEMENT              >
                                      820

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.007283   -0.101219     0.164457
 5.79E-07    0.406364    0.698259
 0.25000     0.007283   -0.101219     0.164457
 5.79E-07    0.203137    0.823340
 0.50000     0.007283   -0.101219     0.164457
 5.79E-07   -9.06E-05    0.948420
 0.75000     0.007283   -0.101219     0.164457
 5.79E-07   -0.203318    1.073501
 1.00000     0.007283   -0.101219     0.164457
 5.79E-07   -0.406545    1.198581

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.000432    0.066678    -0.042068
 9.27E-06   -0.105252   -0.469380
 0.25000     0.000432    0.066678    -0.042068
 9.27E-06   -0.053267   -0.551777
 0.50000     0.000432    0.066678    -0.042068
 9.27E-06   -0.001281   -0.634173
```

```
0.75000     0.000432     0.066678    -0.042068
 9.27E-06    0.050704    -0.716570
1.00000     0.000432     0.066678    -0.042068
 9.27E-06    0.102690    -0.798966

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.005203    -0.021329     0.012488
-2.43E-06    0.031402     0.129298
0.25000     0.005203    -0.021329     0.012488
-2.43E-06    0.015970     0.155655
0.50000     0.005203    -0.021329     0.012488
-2.43E-06    0.000539     0.182012
0.75000     0.005203    -0.021329     0.012488
-2.43E-06   -0.014893     0.208369
1.00000     0.005203    -0.021329     0.012488
-2.43E-06   -0.030325     0.234727

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.001275     0.006027    -0.002724
 7.79E-07   -0.006897    -0.036917
0.25000    -0.001275     0.006027    -0.002724
 7.79E-07   -0.003531    -0.044365
0.50000    -0.001275     0.006027    -0.002724
 7.79E-07   -0.000165    -0.051812
0.75000    -0.001275     0.006027    -0.002724
 7.79E-07    0.003201    -0.059260
1.00000    -0.001275     0.006027    -0.002724
 7.79E-07    0.006567    -0.066708

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -3.25E-06    -0.001101     0.000119
-1.94E-07    0.000331     0.006907
0.25000    -3.25E-06    -0.001101     0.000119
-1.94E-07    0.000184     0.008268
0.50000    -3.25E-06    -0.001101     0.000119
-1.94E-07    3.68E-05     0.009629
0.75000    -3.25E-06    -0.001101     0.000119
-1.94E-07   -0.000110     0.010989
1.00000    -3.25E-06    -0.001101     0.000119
-1.94E-07   -0.000257     0.012350

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.012483     0.123649    -0.177064
 2.04E-06   -0.438097    -0.834464
0.25000    -0.012483     0.123649    -0.177064
 2.04E-06   -0.219291    -0.987263
0.50000    -0.012483     0.123649    -0.177064
 2.04E-06   -0.000485    -1.140061
0.75000    -0.012483     0.123649    -0.177064
 2.04E-06    0.218321    -1.292859
1.00000    -0.012483     0.123649    -0.177064
 2.04E-06    0.437127    -1.445658
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                    821

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.012483    -0.123649     0.177064
-2.04E-06    0.438097     0.834464
0.25000     0.012483    -0.123649     0.177064
-2.04E-06    0.219291     0.987263
0.50000     0.012483    -0.123649     0.177064
-2.04E-06    0.000485     1.140061
0.75000     0.012483    -0.123649     0.177064
-2.04E-06   -0.218321     1.292859
1.00000     0.012483    -0.123649     0.177064
-2.04E-06   -0.437127     1.445658

COMB   SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.012483     0.123649     0.177064
9.27E-06    0.438097     0.834464
0.25000     0.012483     0.123649     0.177064
9.27E-06    0.219291     0.987263
0.50000     0.012483     0.123649     0.177064
9.27E-06    0.000961     1.140061
0.75000     0.012483     0.123649     0.177064
9.27E-06    0.218321     1.292859
1.00000     0.012483     0.123649     0.177064
9.27E-06    0.437127     1.445658

COMB   SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.012483    -0.123649    -0.177064
-8.01E-06   -0.438097    -0.834464
0.25000    -0.012483    -0.123649    -0.177064
-8.01E-06   -0.219291    -0.987263
0.50000    -0.012483    -0.123649    -0.177064
-8.01E-06   -0.001281    -1.140061
0.75000    -0.012483    -0.123649    -0.177064
-8.01E-06   -0.218321    -1.292859
1.00000    -0.012483    -0.123649    -0.177064
-8.01E-06   -0.437127    -1.445658

ELEM       431 ================== LENGTH
=     4.943166

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.025440     0.064673    -0.131744
-1.10E-05   -0.327844    -0.540387
0.25000    -0.025440     0.064673    -0.131744
-1.10E-05   -0.165036    -0.620310
0.50000    -0.025440     0.064673    -0.131744
-1.10E-05   -0.002228    -0.700233
0.75000    -0.025440     0.064673    -0.131744
-1.10E-05    0.160580    -0.780156
1.00000    -0.025440     0.064673    -0.131744
-1.10E-05    0.323388    -0.860079

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.025576    -0.129825     0.160582
 8.16E-06    0.401576     1.149733
0.25000     0.025576    -0.129825     0.160582
 8.16E-06    0.203130     1.310170
0.50000     0.025576    -0.129825     0.160582
 8.16E-06    0.004685     1.470606
0.75000     0.025576    -0.129825     0.160582
 8.16E-06   -0.193760     1.631043
1.00000     0.025576    -0.129825     0.160582
 8.16E-06   -0.392206     1.791480

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.001891     0.084754    -0.036982
 5.06E-06   -0.094674    -0.787117
0.25000    -0.001891     0.084754    -0.036982
 5.06E-06   -0.048971    -0.891855
0.50000    -0.001891     0.084754    -0.036982
 5.06E-06   -0.003269    -0.996593
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                    822

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    -0.001891     0.084754    -0.036982
 5.06E-06    0.042433    -1.101331
1.00000    -0.001891     0.084754    -0.036982
 5.06E-06    0.088136    -1.206070

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.002460    -0.025497     0.010233
-2.87E-06    0.026344     0.231457
0.25000     0.002460    -0.025497     0.010233
-2.87E-06    0.013699     0.262965
0.50000     0.002460    -0.025497     0.010233
-2.87E-06    0.001053     0.294474
0.75000     0.002460    -0.025497     0.010233
-2.87E-06   -0.011593     0.325982
1.00000     0.002460    -0.025497     0.010233
-2.87E-06   -0.024239     0.357491

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000398     0.007216    -0.002083
 8.99E-07   -0.005442    -0.066025
0.25000    -0.000398     0.007216    -0.002083
 8.99E-07   -0.002869    -0.074943
0.50000    -0.000398     0.007216    -0.002083
 8.99E-07   -0.000295    -0.083861
0.75000    -0.000398     0.007216    -0.002083
 8.99E-07    0.002279    -0.092779
1.00000    -0.000398     0.007216    -0.002083
 8.99E-07    0.004852    -0.101697

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000308    -0.001322    -5.87E-06
-2.14E-07    3.95E-05     0.012339
0.25000    -0.000308    -0.001322    -5.87E-06
-2.14E-07    4.67E-05     0.013974
0.50000    -0.000308    -0.001322    -5.87E-06
-2.14E-07    5.40E-05     0.015608
0.75000    -0.000308    -0.001322    -5.87E-06
-2.14E-07    6.12E-05     0.017242
1.00000    -0.000308    -0.001322    -5.87E-06
-2.14E-07    6.85E-05     0.018876

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.027728     0.156644    -0.170809
-5.08E-06   -0.427960    -1.393529
0.25000    -0.027728     0.156644    -0.170809
-5.08E-06   -0.216876    -1.587108
0.50000    -0.027728     0.156644    -0.170809
-5.08E-06    0.005792    -1.780688
0.75000    -0.027728     0.156644    -0.170809
-5.08E-06    0.205292    -1.974267
1.00000    -0.027728     0.156644    -0.170809
-5.08E-06    0.416376    -2.167846

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.027728    -0.156644     0.170809
 5.08E-06    0.427960     1.393529
0.25000     0.027728    -0.156644     0.170809
 5.08E-06    0.216876     1.587108
0.50000     0.027728    -0.156644     0.170809
 5.08E-06    0.005792     1.780688
0.75000     0.027728    -0.156644     0.170809
 5.08E-06   -0.205292     1.974267
1.00000     0.027728    -0.156644     0.170809
 5.08E-06   -0.416376     2.167846

COMB   SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.027728     0.156644     0.170809
8.16E-06    0.427960     1.393529
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                    823

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.25000     0.027728     0.156644     0.170809
8.16E-06    0.216876     1.587108
0.50000     0.027728     0.156644     0.170809
8.16E-06    0.005792     1.780688
0.75000     0.027728     0.156644     0.170809
8.16E-06    0.205292     1.974267
1.00000     0.027728     0.156644     0.170809
8.16E-06    0.416376     2.167846

COMB   SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.027728    -0.156644    -0.170809
-1.10E-05   -0.427960    -1.393529
0.25000    -0.027728    -0.156644    -0.170809
-1.10E-05   -0.216876    -1.587108
0.50000    -0.027728    -0.156644    -0.170809
-1.10E-05   -0.005792    -1.780688
0.75000    -0.027728    -0.156644    -0.170809
-1.10E-05   -0.205292    -1.974267
1.00000    -0.027728    -0.156644    -0.170809
-1.10E-05   -0.416376    -2.167846

ELEM       432 ================== LENGTH
=     4.942369

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.039887     0.065779    -0.125864
-1.24E-05   -0.314141    -0.821813
0.25000    -0.039887     0.065779    -0.125864
-1.24E-05   -0.158625    -0.903090
0.50000    -0.039887     0.065779    -0.125864
-1.24E-05   -0.003108    -0.984366
0.75000    -0.039887     0.065779    -0.125864
-1.24E-05    0.152408    -1.065643
1.00000    -0.039887     0.065779    -0.125864
-1.24E-05    0.307925    -1.146919

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.044303    -0.132063     0.147754
 1.23E-05    0.371821     1.745618
0.25000     0.044303    -0.132063     0.147754
 1.23E-05    0.189257     1.908794
0.50000     0.044303    -0.132063     0.147754
 1.23E-05    0.006693     2.071971
0.75000     0.044303    -0.132063     0.147754
 1.23E-05   -0.175871     2.235147
1.00000     0.044303    -0.132063     0.147754
 1.23E-05   -0.358436     2.398324

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.003975     0.086246    -0.027673
 1.52E-06   -0.073037    -1.196395
0.25000    -0.003975     0.086246    -0.027673
 1.52E-06   -0.038845    -1.302961
0.50000    -0.003975     0.086246    -0.027673
 1.52E-06   -0.004653    -1.409526
0.75000    -0.003975     0.086246    -0.027673
 1.52E-06    0.029539    -1.516092
1.00000    -0.003975     0.086246    -0.027673
 1.52E-06    0.063731    -1.622657

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000286    -0.025965     0.007183
-1.90E-06    0.019137     0.354891
0.25000    -0.000286    -0.025965     0.007183
-1.90E-06    0.010262     0.386973
0.50000    -0.000286    -0.025965     0.007183
-1.90E-06    0.001386     0.419055
0.75000    -0.000286    -0.025965     0.007183
-1.90E-06   -0.007489     0.451137
1.00000    -0.000286    -0.025965     0.007183
-1.90E-06   -0.016365     0.483219
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                    824

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.000480     0.007347    -0.001244
 6.16E-07   -0.003463    -0.101199
0.25000     0.000480     0.007347    -0.001244
 6.16E-07   -0.001926    -0.110277
0.50000     0.000480     0.007347    -0.001244
 6.16E-07   -0.000389    -0.119356
0.75000     0.000480     0.007347    -0.001244
 6.16E-07    0.001148    -0.128434
1.00000     0.000480     0.007347    -0.001244
 6.16E-07    0.002685    -0.137512

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000635    -0.001345    -0.000157
-1.57E-07   -0.000317     0.018899
0.25000    -0.000635    -0.001345    -0.000157
-1.57E-07   -0.000123     0.020561
0.50000    -0.000635    -0.001345    -0.000157
-1.57E-07    7.15E-05     0.022222
0.75000    -0.000635    -0.001345    -0.000157
-1.57E-07    0.000266     0.023884
1.00000    -0.000635    -0.001345    -0.000157
-1.57E-07    0.000460     0.025545

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.043381     0.159373    -0.154781
-1.02E-05   -0.390642    -2.119408
0.25000    -0.043381     0.159373    -0.154781
-1.02E-05   -0.199396    -2.316328
0.50000    -0.043381     0.159373    -0.154781
-1.02E-05   -0.008150    -2.513248
0.75000    -0.043381     0.159373    -0.154781
-1.02E-05    0.183095    -2.710168
1.00000    -0.043381     0.159373    -0.154781
-1.02E-05    0.374341    -2.907088

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.043381    -0.159373     0.154781
 1.02E-05    0.390642     2.119408
0.25000     0.043381    -0.159373     0.154781
 1.02E-05    0.199396     2.316328
0.50000     0.043381    -0.159373     0.154781
 1.02E-05    0.008150     2.513248
0.75000     0.043381    -0.159373     0.154781
 1.02E-05   -0.183095     2.710168
1.00000     0.043381    -0.159373     0.154781
 1.02E-05   -0.374341     2.907088

COMB   SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.044303     0.159373     0.154781
 1.23E-05    0.390642     2.119408
0.25000     0.044303     0.159373     0.154781
 1.23E-05    0.199396     2.316328
0.50000     0.044303     0.159373     0.154781
 1.23E-05    0.008150     2.513248
0.75000     0.044303     0.159373     0.154781
 1.23E-05    0.183095     2.710168
1.00000     0.044303     0.159373     0.154781
 1.23E-05    0.374341     2.907088

COMB   SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.043381    -0.159373    -0.154781
-1.24E-05   -0.390642    -2.119408
0.25000    -0.043381    -0.159373    -0.154781
-1.24E-05   -0.199396    -2.316328
0.50000    -0.043381    -0.159373    -0.154781
-1.24E-05   -0.008150    -2.513248
0.75000    -0.043381    -0.159373    -0.154781
-1.24E-05   -0.183095    -2.710168
1.00000    -0.043381    -0.159373    -0.154781
-1.24E-05   -0.374341    -2.907088
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                    825

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       433 ================== LENGTH
=     4.943793

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.050505     0.065673    -0.117107
-1.38E-05   -0.293668    -1.110827
0.25000    -0.050505     0.065673    -0.117107
-1.38E-05   -0.148930    -1.191995
0.50000    -0.050505     0.065673    -0.117107
-1.38E-05   -0.004192    -1.273163
0.75000    -0.050505     0.065673    -0.117107
-1.38E-05    0.140546    -1.354331
1.00000    -0.050505     0.065673    -0.117107
-1.38E-05    0.285284    -1.435499

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.056338    -0.131637     0.129020
 1.61E-05    0.327857     2.357119
0.25000     0.056338    -0.131637     0.129020
 1.61E-05    0.168395     2.519816
0.50000     0.056338    -0.131637     0.129020
 1.61E-05    0.008933     2.682513
0.75000     0.056338    -0.131637     0.129020
 1.61E-05   -0.150530     2.845210
1.00000     0.056338    -0.131637     0.129020
 1.61E-05   -0.309992     3.007906

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.004126     0.085658    -0.014770
-2.04E-06   -0.042623    -1.616205
0.25000    -0.004126     0.085658    -0.014770
-2.04E-06   -0.024369    -1.722074
0.50000    -0.004126     0.085658    -0.014770
-2.04E-06   -0.006114    -1.827944
0.75000    -0.004126     0.085658    -0.014770
-2.04E-06    0.012141    -1.933813
1.00000    -0.004126     0.085658    -0.014770
-2.04E-06    0.030396    -2.039682

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.001781    -0.025616     0.003410
-4.50E-07    0.010209     0.481573
0.25000    -0.001781    -0.025616     0.003410
-4.50E-07    0.005995     0.513233
0.50000    -0.001781    -0.025616     0.003410
-4.50E-07    0.001781     0.544893
0.75000    -0.001781    -0.025616     0.003410
-4.50E-07   -0.002434     0.576553
1.00000    -0.001781    -0.025616     0.003410
-4.50E-07   -0.006648     0.608213

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.000996     0.007245    -0.000212
 1.93E-07   -0.001023    -0.137276
0.25000     0.000996     0.007245    -0.000212
 1.93E-07   -0.000761    -0.146230
0.50000     0.000996     0.007245    -0.000212
 1.93E-07   -0.000499    -0.155185
0.75000     0.000996     0.007245    -0.000212
 1.93E-07   -0.000237    -0.164140
1.00000     0.000996     0.007245    -0.000212
 1.93E-07    2.51E-05    -0.173095

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.000921    -0.001323    -0.000341
-7.24E-08   -0.000753     0.025616
0.25000    -0.000921    -0.001323    -0.000341
-7.24E-08   -0.000331     0.027251
0.50000    -0.000921    -0.001323    -0.000341
-7.24E-08    9.14E-05     0.028886
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                    826

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    -0.000921    -0.001323    -0.000341
-7.24E-08    0.000513     0.030522
1.00000    -0.000921    -0.001323    -0.000341
-7.24E-08    0.000935     0.032157

LOAD   -2N+1- --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.053636     0.158576    -0.132089
-1.56E-05   -0.337314    -2.864308
0.25000    -0.053636     0.158576    -0.132089
-1.56E-05   -0.174059    -3.060300
0.50000    -0.053636     0.158576    -0.132089
-1.56E-05   -0.010805    -3.256292
0.75000    -0.053636     0.158576    -0.132089
-1.56E-05    0.152450    -3.452284
1.00000    -0.053636     0.158576    -0.132089
-1.56E-05    0.315705    -3.648276

LOAD   -2N+2- --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.053636    -0.158576     0.132089
 1.56E-05    0.337314     2.864308
0.25000     0.053636    -0.158576     0.132089
 1.56E-05    0.174059     3.060300
0.50000     0.053636    -0.158576     0.132089
 1.56E-05    0.010805     3.256292
0.75000     0.053636    -0.158576     0.132089
 1.56E-05   -0.152450     3.452284
1.00000     0.053636    -0.158576     0.132089
 1.56E-05   -0.315705     3.648276

COMB   SETTLE -------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.056338     0.158576     0.132089
1.61E-05    0.337314     2.864308
0.25000     0.056338     0.158576     0.132089
1.61E-05    0.174059     3.060300
0.50000     0.056338     0.158576     0.132089
1.61E-05    0.010805     3.256292
0.75000     0.056338     0.158576     0.132089
1.61E-05    0.152450     3.452284
1.00000     0.056338     0.158576     0.132089
1.61E-05    0.315705     3.648276

COMB   SETTLE -------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.053636    -0.158576    -0.132089
-1.56E-05   -0.337314    -2.864308
0.25000    -0.053636    -0.158576    -0.132089
-1.56E-05   -0.174059    -3.060300
0.50000    -0.053636    -0.158576    -0.132089
-1.56E-05   -0.010805    -3.256292
0.75000    -0.053636    -0.158576    -0.132089
-1.56E-05   -0.152450    -3.452284
1.00000    -0.053636    -0.158576    -0.132089
-1.56E-05   -0.315705    -3.648276

ELEM       434 ================== LENGTH
=     4.943147

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -0.058667     0.041391    -0.105977
-1.55E-05   -0.266943    -1.402401
0.25000    -0.058667     0.041391    -0.105977
-1.55E-05   -0.135979    -1.453551
0.50000    -0.058667     0.041391    -0.105977
-1.55E-05   -0.005014    -1.504701
0.75000    -0.058667     0.041391    -0.105977
-1.55E-05    0.125950    -1.555850
1.00000    -0.058667     0.041391    -0.105977
-1.55E-05    0.256915    -1.607000
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<           UNEQUAL          SETTLEMENT          >
                                    827

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000     0.063421    -0.080227     0.105328
 2.05E-05    0.270964    -2.977579
0.25000     0.063421    -0.080227     0.105328
 2.05E-05    0.140802     3.072303
0.50000     0.063421    -0.080227     0.105328
 2.05E-05    0.010639     3.171447
0.75000     0.063421    -0.080227     0.105328
 2.05E-05   -0.119523     3.270591
1.00000     0.063421    -0.080227     0.105328
```

```
 2.05E-05   -0.249686    3.369735

LOAD      -P2 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.002435     0.050303     0.001329
-5.97E-06   -0.003961    -2.037726
0.25000    -0.002435     0.050303     0.001329
-5.97E-06   -0.005604    -2.099889
0.50000    -0.002435     0.050303     0.001329
-5.97E-06   -0.007247    -2.162053
0.75000    -0.002435     0.050303     0.001329
-5.97E-06   -0.008889    -2.224217
1.00000    -0.002435     0.050303     0.001329
-5.97E-06   -0.010532    -2.286381

LOAD      -P3 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.002386    -0.014904    -0.001149
 1.18E-06   -0.000737     0.607898
0.25000    -0.002386    -0.014904    -0.001149
 1.18E-06    0.000682     0.626316
0.50000    -0.002386    -0.014904    -0.001149
 1.18E-06    0.002102     0.644735
0.75000    -0.002386    -0.014904    -0.001149
 1.18E-06    0.003522     0.663153
1.00000    -0.002386    -0.014904    -0.001149
 1.18E-06    0.004942     0.681572

LOAD      -P4 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.001268     0.004186     0.001032
-2.88E-07    0.001961    -0.173221
0.25000     0.001268     0.004186     0.001032
-2.88E-07    0.000667    -0.178394
0.50000     0.001268     0.004186     0.001032
-2.88E-07   -0.000588    -0.183567
0.75000     0.001268     0.004186     0.001032
-2.88E-07   -0.001863    -0.188741
1.00000     0.001268     0.004186     0.001032
-2.88E-07   -0.003137    -0.193914

LOAD      -P5 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.001202    -0.000748    -0.000563
 2.62E-08   -0.001284     0.032291
0.25000    -0.001202    -0.000748    -0.000563
 2.62E-08   -0.000588     0.033216
0.50000    -0.001202    -0.000748    -0.000563
 2.62E-08    0.000107     0.034140
0.75000    -0.001202    -0.000748    -0.000563
 2.62E-08    0.000803     0.035065
1.00000    -0.001202    -0.000748    -0.000563
 2.62E-08    0.001499     0.035989

LOAD  -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.059834     0.095880    -0.103616
-2.18E-05   -0.268943    -3.613347
0.25000    -0.059834     0.095880    -0.103616
-2.18E-05   -0.140896    -3.731834
0.50000    -0.059834     0.095880    -0.103616
-2.18E-05   -0.012849    -3.850321
0.75000    -0.059834     0.095880    -0.103616
-2.18E-05    0.115198    -3.968809
1.00000    -0.059834     0.095880    -0.103616
-2.18E-05    0.243245    -4.087296
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 828

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.059834    -0.095880     0.103616
 2.18E-05    0.268943     3.613347
0.25000     0.059834    -0.095880     0.103616
 2.18E-05    0.140896     3.731834
0.50000     0.059834    -0.095880     0.103616
 2.18E-05    0.012849     3.850321
0.75000     0.059834    -0.095880     0.103616
 2.18E-05   -0.115198     3.968809
1.00000     0.059834    -0.095880     0.103616
 2.18E-05   -0.243245     4.087296

COMB  SETTLE ------------------ MAX

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.063421     0.095880     0.105328
 2.18E-05    0.270964     3.613347
0.25000     0.063421     0.095880     0.105328
 2.18E-05    0.140896     3.731834
0.50000     0.063421     0.095880     0.105328
 2.18E-05    0.012849     3.850321
0.75000     0.063421     0.095880     0.105328
 2.18E-05    0.125950     3.968809
1.00000     0.063421     0.095880     0.105328
 2.18E-05    0.256915     4.087296

COMB  SETTLE ------------------ MIN

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.059834    -0.095880    -0.105977
-2.18E-05   -0.268943    -3.613347
0.25000    -0.059834    -0.095880    -0.105977
-2.18E-05   -0.140896    -3.731834
0.50000    -0.059834    -0.095880    -0.105977
-2.18E-05   -0.012849    -3.850321
0.75000    -0.059834    -0.095880    -0.105977
-2.18E-05   -0.119523    -3.968809
1.00000    -0.059834    -0.095880    -0.105977
-2.18E-05   -0.249686    -4.087296

ELEM      435 ================== LENGTH
=     4.942921

LOAD      -A1 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.063040     0.055858    -0.092850
-1.63E-05   -0.235195    -1.577563
0.25000    -0.063040     0.055858    -0.092850
-1.63E-05   -0.120457    -1.646588
0.50000    -0.063040     0.055858    -0.092850
-1.63E-05   -0.005719    -1.715613
0.75000    -0.063040     0.055858    -0.092850
-1.63E-05    0.109019    -1.784638
1.00000    -0.063040     0.055858    -0.092850
-1.63E-05    0.223757    -1.853664

LOAD      -P1 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.065596    -0.110593     0.077497
 2.31E-05    0.203689     3.342727
0.25000     0.065596    -0.110593     0.077497
 2.31E-05    0.107924     3.479391
0.50000     0.065596    -0.110593     0.077497
 2.31E-05    0.012158     3.616054
0.75000     0.065596    -0.110593     0.077497
 2.31E-05   -0.083608     3.752717
1.00000     0.065596    -0.110593     0.077497
 2.31E-05   -0.179374     3.889381

LOAD      -P2 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.000241     0.070777     0.020152
-8.64E-06    0.041506    -2.289631
0.25000     0.000241     0.070777     0.020152
-8.64E-06    0.016604    -2.377093
0.50000     0.000241     0.070777     0.020152
-8.64E-06   -0.008298    -2.464554
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 829

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
0.75000     0.000241     0.070777     0.020152
-8.64E-06   -0.033200    -2.552016
1.00000     0.000241     0.070777     0.020152
-8.64E-06   -0.058102    -2.639478

LOAD      -P3 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.002758    -0.020863    -0.006455
 2.44E-06   -0.013543     0.682708
0.25000    -0.002758    -0.020863    -0.006455
 2.44E-06   -0.005567     0.708489
0.50000    -0.002758    -0.020863    -0.006455
 2.44E-06    0.002409     0.734271
0.75000    -0.002758    -0.020863    -0.006455
 2.44E-06    0.010386     0.760052
1.00000    -0.002758    -0.020863    -0.006455
 2.44E-06    0.018362     0.785833

LOAD      -P4 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.001486     0.005878     0.002476
-6.77E-07    0.005445    -0.194435
0.25000     0.001486     0.005878     0.002476
-6.77E-07    0.002386    -0.201699
0.50000     0.001486     0.005878     0.002476
-6.77E-07   -0.000673    -0.208962
0.75000     0.001486     0.005878     0.002476
-6.77E-07   -0.003733    -0.216226
1.00000     0.001486     0.005878     0.002476
-6.77E-07   -0.006792    -0.223489

LOAD      -P5 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.001525    -0.001057    -0.000820
 1.15E-07    0.001902     0.036193
0.25000    -0.001525    -0.001057    -0.000820
 1.15E-07   -0.000890     0.037499
0.50000    -0.001525    -0.001057    -0.000820
 1.15E-07    0.000123     0.038805
0.75000    -0.001525    -0.001057    -0.000820
 1.15E-07    0.001136     0.040111
1.00000    -0.001525    -0.001057    -0.000820
 1.15E-07    0.002148     0.041417

LOAD  -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.061313     0.132513    -0.070223
-2.56E-05   -0.188244    -4.061629
0.25000    -0.061313     0.132513    -0.070223
-2.56E-05   -0.101467    -4.225379
0.50000    -0.061313     0.132513    -0.070223
-2.56E-05   -0.014690    -4.389130
0.75000    -0.061313     0.132513    -0.070223
-2.56E-05    0.072086    -4.552880
1.00000    -0.061313     0.132513    -0.070223
-2.56E-05    0.158863    -4.716631

LOAD  -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.061313    -0.132513     0.070223
 2.56E-05    0.188244     4.061629
0.25000     0.061313    -0.132513     0.070223
 2.56E-05    0.101467     4.225379
0.50000     0.061313    -0.132513     0.070223
 2.56E-05    0.014690     4.389130
0.75000     0.061313    -0.132513     0.070223
 2.56E-05   -0.072086     4.552880
1.00000     0.061313    -0.132513     0.070223
 2.56E-05   -0.158863     4.716631

COMB  SETTLE ------------------ MAX

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.065596     0.132513     0.077497
 2.56E-05    0.203689     4.061629
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 830

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
0.25000     0.065596     0.132513     0.077497
 2.56E-05    0.107924     4.225379
0.50000     0.065596     0.132513     0.077497
 2.56E-05    0.014690     4.389130
0.75000     0.065596     0.132513     0.077497
 2.56E-05    0.109019     4.552880
1.00000     0.065596     0.132513     0.077497
 2.56E-05    0.223757     4.716631

COMB  SETTLE ------------------ MIN

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.063040    -0.132513    -0.092850
-2.56E-05   -0.235195    -4.061629
0.25000    -0.063040    -0.132513    -0.092850
-2.56E-05   -0.120457    -4.225379
0.50000    -0.063040    -0.132513    -0.092850
-2.56E-05   -0.014690    -4.389130
0.75000    -0.063040    -0.132513    -0.092850
-2.56E-05   -0.083608    -4.552880
1.00000    -0.063040    -0.132513    -0.092850
-2.56E-05   -0.179374    -4.716631

ELEM      436 ================== LENGTH
=     4.942535

LOAD      -A1 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.069387     0.004028    -0.078348
-1.64E-05   -0.199680    -1.828261
0.25000    -0.069387     0.004028    -0.078348
-1.64E-05   -0.102870    -1.833238
0.50000    -0.069387     0.004028    -0.078348
-1.64E-05   -0.006060    -1.838215
0.75000    -0.069387     0.004028    -0.078348
-1.64E-05    0.090750    -1.843192
1.00000    -0.069387     0.004028    -0.078348
-1.64E-05    0.187560    -1.848169

LOAD      -P1 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.069567    -0.001229     0.046452
 2.41E-05    0.127925     3.870960
0.25000     0.069567    -0.001229     0.046452
 2.41E-05    0.070527     3.872478
0.50000     0.069567    -0.001229     0.046452
 2.41E-05    0.013129     3.873997
0.75000     0.069567    -0.001229     0.046452
 2.41E-05   -0.044269     3.875515
1.00000     0.069567    -0.001229     0.046452
 2.41E-05   -0.101668     3.877033

LOAD      -P2 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.003258    -0.004261     0.041334
-1.06E-05    0.093040    -2.648562
0.25000     0.003258    -0.004261     0.041334
-1.06E-05    0.041967    -2.643297
0.50000     0.003258    -0.004261     0.041334
-1.06E-05   -0.009106    -2.638031
0.75000     0.003258    -0.004261     0.041334
-1.06E-05   -0.060179    -2.632766
1.00000     0.003258    -0.004261     0.041334
-1.06E-05   -0.111253    -2.627500

LOAD      -P3 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.003292     0.001948    -0.012430
 3.85E-06   -0.028077     0.788623
0.25000    -0.003292     0.001948    -0.012430
 3.85E-06   -0.012718     0.786216
0.50000    -0.003292     0.001948    -0.012430
 3.85E-06    0.002640     0.783810
0.75000    -0.003292     0.001948    -0.012430
 3.85E-06    0.017999     0.781403
1.00000    -0.003292     0.001948    -0.012430
 3.85E-06    0.033357     0.778996
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 831

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.001827    -0.000669     0.004100
-1.14E-06    0.009395    -0.224462
0.25000     0.001827    -0.000669     0.004100
-1.14E-06    0.004329    -0.223635
0.50000     0.001827    -0.000669     0.004100
-1.14E-06   -0.000738    -0.222808
0.75000     0.001827    -0.000669     0.004100
-1.14E-06   -0.005804    -0.221981
1.00000     0.001827    -0.000669     0.004100
-1.14E-06   -0.010871    -0.221154

LOAD      -P5 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.001972     0.000184    -0.001108
 2.40E-07   -0.002604     0.041702
0.25000    -0.001972     0.000184    -0.001108
 2.40E-07   -0.001235     0.041475
0.50000    -0.001972     0.000184    -0.001108
 2.40E-07    0.000135     0.041248
0.75000    -0.001972     0.000184    -0.001108
 2.40E-07    0.001505     0.041020
1.00000    -0.001972     0.000184    -0.001108
 2.40E-07    0.002874     0.040793

LOAD  -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.064303    -0.000903    -0.032914
-2.81E-05   -0.097244    -4.701285
0.25000    -0.064303    -0.000903    -0.032914
-2.81E-05   -0.056574    -4.700169
0.50000    -0.064303    -0.000903    -0.032914
-2.81E-05   -0.015904    -4.699054
0.75000    -0.064303    -0.000903    -0.032914
-2.81E-05    0.024766    -4.697938
1.00000    -0.064303    -0.000903    -0.032914
-2.81E-05    0.065436    -4.696823

LOAD  -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.064303     0.000903     0.032914
 2.81E-05    0.097244     4.701285
0.25000     0.064303     0.000903     0.032914
 2.81E-05    0.056574     4.700169
0.50000     0.064303     0.000903     0.032914
 2.81E-05    0.015904     4.699054
0.75000     0.064303     0.000903     0.032914
 2.81E-05   -0.024766     4.697938
1.00000     0.064303     0.000903     0.032914
 2.81E-05   -0.065436     4.696823

COMB  SETTLE ------------------ MAX

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.069567     0.004028     0.046452
 2.81E-05    0.127925     4.701285
0.25000     0.069567     0.004028     0.046452
 2.81E-05    0.070527     4.700169
0.50000     0.069567     0.004028     0.046452
 2.81E-05    0.013129     4.699054
0.75000     0.069567     0.004028     0.046452
 2.81E-05    0.090750     4.697938
1.00000     0.069567     0.004028     0.046452
 2.81E-05    0.187560     4.696823

COMB  SETTLE ------------------ MIN

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.069387    -0.004261    -0.078348
-2.81E-05   -0.199680    -4.701285
0.25000    -0.069387    -0.004261    -0.078348
-2.81E-05   -0.102870    -4.700169
0.50000    -0.069387    -0.004261    -0.078348
-2.81E-05   -0.015904    -4.699054
0.75000    -0.069387    -0.004261    -0.078348
-2.81E-05   -0.060179    -4.697938
1.00000    -0.069387    -0.004261    -0.078348
-2.81E-05   -0.111253    -4.696823
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 832

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      437 ================== LENGTH
=     4.943534

LOAD      -A1 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.074738    -0.005915    -0.060923
-1.16E-05   -0.158531    -1.827378
0.25000    -0.074738    -0.005915    -0.060923
-1.16E-05   -0.083237    -1.820068
0.50000    -0.074738    -0.005915    -0.060923
-1.16E-05   -0.007944    -1.812757
0.75000    -0.074738    -0.005915    -0.060923
-1.16E-05    0.067350    -1.805446
1.00000    -0.074738    -0.005915    -0.060923
-1.16E-05    0.142644    -1.798135

LOAD      -P1 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.073944     0.019522     0.013840
1.46E-05    0.047315     3.868059
0.25000     0.073944     0.019522     0.013840
1.46E-05    0.030210     3.843932
0.50000     0.073944     0.019522     0.013840
1.46E-05    0.013105     3.819806
0.75000     0.073944     0.019522     0.013840
1.46E-05   -0.003999     3.795679
1.00000     0.073944     0.019522     0.013840
1.46E-05   -0.021104     3.771553

LOAD      -P2 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.004691    -0.017551     0.060741
-6.56E-06    0.143496    -2.642775
0.25000     0.004691    -0.017551     0.060741
-6.56E-06    0.068428    -2.621084
0.50000     0.004691    -0.017551     0.060741
-6.56E-06   -0.006641    -2.599394
0.75000     0.004691    -0.017551     0.060741
-6.56E-06   -0.081710    -2.577703
1.00000     0.004691    -0.017551     0.060741
-6.56E-06   -0.156778    -2.556012

LOAD      -P3 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.003501     0.005098    -0.017850
 4.69E-06   -0.042211     0.783530
0.25000    -0.003501     0.005098    -0.017850
 4.69E-06   -0.020150     0.777229
0.50000    -0.003501     0.005098    -0.017850
 4.69E-06    0.001910     0.770928
0.75000    -0.003501     0.005098    -0.017850
 4.69E-06    0.023971     0.764627
1.00000    -0.003501     0.005098    -0.017850
 4.69E-06    0.046032     0.758326

LOAD      -P4 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.002133    -0.001430     0.005539
-1.54E-06    0.013178    -0.222597
0.25000     0.002133    -0.001430     0.005539
-1.54E-06    0.006333    -0.220829
0.50000     0.002133    -0.001430     0.005539
-1.54E-06   -0.000512    -0.219061
0.75000     0.002133    -0.001430     0.005539
-1.54E-06   -0.007357    -0.217293
1.00000     0.002133    -0.001430     0.005539
-1.54E-06   -0.014202    -0.215526

LOAD      -P5 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.002530     0.000276    -0.001346
 4.09E-07   -0.003247     0.041160
0.25000    -0.002530     0.000276    -0.001346
 4.09E-07   -0.001583     0.040819
0.50000    -0.002530     0.000276    -0.001346
 4.09E-07    8.11E-05     0.040477
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 833

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P             V2             V3
       T          M2            M3
0.75000    -0.002530     0.000276    -0.001346
 4.09E-07    0.001745     0.040136
1.00000    -0.002530     0.000276    -0.001346
 4.09E-07    0.003409     0.039794

LOAD  -2N+1- ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.067913    -0.024897     0.005356
-1.97E-05   -0.001857    -4.692750
0.25000    -0.067913    -0.024897     0.005356
-1.97E-05   -0.008477    -4.661981
0.50000    -0.067913    -0.024897     0.005356
-1.97E-05   -0.015097    -4.631212
0.75000    -0.067913    -0.024897     0.005356
-1.97E-05   -0.021717    -4.600442
1.00000    -0.067913    -0.024897     0.005356
-1.97E-05   -0.028337    -4.569673

LOAD  -2N+2- ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.067913     0.024897    -0.005356
 1.97E-05    0.001857     4.692750
0.25000     0.067913     0.024897    -0.005356
 1.97E-05    0.008477     4.661981
0.50000     0.067913     0.024897    -0.005356
 1.97E-05    0.015097     4.631212
0.75000     0.067913     0.024897    -0.005356
 1.97E-05    0.021717     4.600442
1.00000     0.067913     0.024897    -0.005356
 1.97E-05    0.028337     4.569673

COMB  SETTLE ------------------ MAX

REL DIST          P             V2             V3
       T          M2            M3
0.00000     0.073944     0.024897     0.060741
 1.97E-05    0.143496     4.692750
0.25000     0.073944     0.024897     0.060741
 1.97E-05    0.068428     4.661981
0.50000     0.073944     0.024897     0.060741
 1.97E-05    0.015097     4.631212
0.75000     0.073944     0.024897     0.060741
 1.97E-05    0.067350     4.600442
1.00000     0.073944     0.024897     0.060741
 1.97E-05    0.142644     4.569673

COMB  SETTLE ------------------ MIN

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.074738    -0.024897    -0.060923
-1.97E-05   -0.158531    -4.692750
0.25000    -0.074738    -0.024897    -0.060923
-1.97E-05   -0.083237    -4.661981
0.50000    -0.074738    -0.024897    -0.060923
-1.97E-05   -0.015097    -4.631212
0.75000    -0.074738    -0.024897    -0.060923
-1.97E-05   -0.081710    -4.600442
1.00000    -0.074738    -0.024897    -0.060923
-1.97E-05   -0.156778    -4.569673

ELEM      438 ================== LENGTH
=     3.459946

LOAD      -A1 ------------------

REL DIST          P             V2             V3
       T          M2            M3
0.00000    -0.079735     0.027888    -0.093559
 8.43E-07   -0.167519    -1.779540
0.25000    -0.079735     0.027888    -0.093559
 8.43E-07   -0.086591    -1.803663
0.50000    -0.079735     0.027888    -0.093559
 8.43E-07   -0.005664    -1.827785
0.75000    -0.079735     0.027888    -0.093559
 8.43E-07    0.075264    -1.851908
1.00000    -0.079735     0.027888    -0.093559
 8.43E-07    0.156192    -1.876031
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                                 834

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 ------------------
```

```
REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.074824   -0.017622   -0.027264
-9.74E-06  -0.035177    3.772417
0.25000    0.074824   -0.017622   -0.027264
-9.74E-06  -0.011594    3.787660
0.50000    0.074824   -0.017622   -0.027264
-9.74E-06   0.011989    3.802902
0.75000    0.074824   -0.017622   -0.027264
-9.74E-06   0.035571    3.818145
1.00000    0.074824   -0.017622   -0.027264
-9.74E-06   0.059154    3.833388

LOAD      -P2 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.009892   -0.041731    0.155276
 5.80E-06  0.260610   -2.581060
0.25000    0.009892   -0.041731    0.155276
 5.80E-06  0.126298   -2.544963
0.50000    0.009892   -0.041731    0.155276
 5.80E-06 -0.008014   -2.508866
0.75000    0.009892   -0.041731    0.155276
 5.80E-06 -0.142326   -2.472768
1.00000    0.009892   -0.041731    0.155276
 5.80E-06 -0.276637   -2.436671

LOAD      -P3 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.004308    0.041037   -0.044866
 4.20E-06 -0.075429    0.765613
0.25000   -0.004308    0.041037   -0.044866
 4.20E-06 -0.036620    0.730116
0.50000   -0.004308    0.041037   -0.044866
 4.20E-06  0.002188    0.694619
0.75000   -0.004308    0.041037   -0.044866
 4.20E-06  0.040997    0.659122
1.00000   -0.004308    0.041037   -0.044866
 4.20E-06  0.079805    0.623626

LOAD      -P4 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.002569   -0.011846    0.013510
-1.70E-06  0.022763   -0.217743
0.25000    0.002569   -0.011846    0.013510
-1.70E-06  0.011077   -0.207496
0.50000    0.002569   -0.011846    0.013510
-1.70E-06 -0.000609   -0.197250
0.75000    0.002569   -0.011846    0.013510
-1.70E-06 -0.012295   -0.187004
1.00000    0.002569   -0.011846    0.013510
-1.70E-06 -0.023981   -0.176757

LOAD      -P5 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.003242    0.002274   -0.003097
 5.99E-07 -0.005248    0.040313
0.25000   -0.003242    0.002274   -0.003097
 5.99E-07 -0.002569    0.038346
0.50000   -0.003242    0.002274   -0.003097
 5.99E-07  0.000110    0.036380
0.75000   -0.003242    0.002274   -0.003097
 5.99E-07  0.002789    0.034413
1.00000   -0.003242    0.002274   -0.003097
 5.99E-07  0.005468    0.032446

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.067274   -0.025689    0.075227
 4.94E-06  0.115854   -4.578343
0.25000   -0.067274   -0.025689    0.075227
 4.94E-06  0.050783   -4.556122
0.50000   -0.067274   -0.025689    0.075227
 4.94E-06 -0.014287   -4.533901
0.75000   -0.067274   -0.025689    0.075227
 4.94E-06 -0.079357   -4.511680
1.00000   -0.067274   -0.025689    0.075227
 4.94E-06 -0.144427   -4.489460
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     835

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.067274    0.025689   -0.075227
-4.94E-06 -0.115854    4.578343
0.25000    0.067274    0.025689   -0.075227
-4.94E-06 -0.050783    4.556122
0.50000    0.067274    0.025689   -0.075227
-4.94E-06  0.014287    4.533901
0.75000    0.067274    0.025689   -0.075227
-4.94E-06  0.079357    4.511680
1.00000    0.067274    0.025689   -0.075227
-4.94E-06  0.144427    4.489460

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.074824    0.041037    0.155276
5.80E-06   0.260610    4.578343
0.25000    0.074824    0.041037    0.155276
5.80E-06   0.126298    4.556122
0.50000    0.074824    0.041037    0.155276
5.80E-06   0.014287    4.533901
0.75000    0.074824    0.041037    0.155276
5.80E-06   0.079357    4.511680
1.00000    0.074824    0.041037    0.155276
5.80E-06   0.156192    4.489460

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.079735   -0.041731   -0.093559
-9.74E-06 -0.167519   -4.578343
0.25000   -0.079735   -0.041731   -0.093559
-9.74E-06 -0.086591   -4.556122
0.50000   -0.079735   -0.041731   -0.093559
-9.74E-06 -0.014287   -4.533901
0.75000   -0.079735   -0.041731   -0.093559
-9.74E-06 -0.142326   -4.511680
1.00000   -0.079735   -0.041731   -0.093559
-9.74E-06 -0.276637   -4.489460

ELEM      439 ================== LENGTH
=     4.943169

LOAD      -A1 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.082200   -0.001482   -0.034777
 4.87E-06 -0.090863   -1.861195
0.25000   -0.082200   -0.001482   -0.034777
 4.87E-06 -0.047885   -1.859364
0.50000   -0.082200   -0.001482   -0.034777
 4.87E-06 -0.004908   -1.857533
0.75000   -0.082200   -0.001482   -0.034777
 4.87E-06  0.038070   -1.855702
1.00000   -0.082200   -0.001482   -0.034777
 4.87E-06  0.081047   -1.853871

LOAD      -P1 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.072838    0.047699   -0.040799
-1.69E-05 -0.087242    3.842149
0.25000    0.072838    0.047699   -0.040799
-1.69E-05 -0.036823    3.783203
0.50000    0.072838    0.047699   -0.040799
-1.69E-05  0.013597    3.724256
0.75000    0.072838    0.047699   -0.040799
-1.69E-05  0.064016    3.665310
1.00000    0.072838    0.047699   -0.040799
-1.69E-05  0.114435    3.606363

LOAD      -P2 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.015261   -0.097687    0.096198
 8.97E-06  0.227208   -2.466893
0.25000    0.015261   -0.097687    0.096198
 8.97E-06  0.108327   -2.346172
0.50000    0.015261   -0.097687    0.096198
 8.97E-06 -0.010554   -2.225451
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     836

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P3 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.004705    0.066965   -0.026810
 4.13E-06 -0.063844    0.632245
0.25000   -0.004705    0.066965   -0.026810
 4.13E-06 -0.030712    0.549491
0.50000   -0.004705    0.066965   -0.026810
 4.13E-06  0.002420    0.466737
0.75000   -0.004705    0.066965   -0.026810
 4.13E-06  0.035552    0.383982
1.00000   -0.004705    0.066965   -0.026810
 4.13E-06  0.068684    0.301228

LOAD      -P4 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.002841   -0.019019    0.007956
-1.76E-06  0.018973   -0.179335
0.25000    0.002841   -0.019019    0.007956
-1.76E-06  0.009141   -0.155830
0.50000    0.002841   -0.019019    0.007956
-1.76E-06 -0.000691   -0.132326
0.75000    0.002841   -0.019019    0.007956
-1.76E-06 -0.010523   -0.108822
1.00000    0.002841   -0.019019    0.007956
-1.76E-06 -0.020355   -0.085318

LOAD      -P5 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.004035    0.003524   -0.001768
 6.63E-07 -0.004232    0.033028
0.25000   -0.004035    0.003524   -0.001768
 6.63E-07 -0.002048    0.028673
0.50000   -0.004035    0.003524   -0.001768
 6.63E-07  0.000136    0.024317
0.75000   -0.004035    0.003524   -0.001768
 6.63E-07  0.002321    0.019962
1.00000   -0.004035    0.003524   -0.001768
 6.63E-07  0.004505    0.015607

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.064098   -0.118188    0.069377
 1.21E-05  0.155318   -4.507423
0.25000   -0.064098   -0.118188    0.069377
 1.21E-05  0.069583   -4.361366
0.50000   -0.064098   -0.118188    0.069377
 1.21E-05 -0.016153   -4.215310
0.75000   -0.064098   -0.118188    0.069377
 1.21E-05 -0.101888   -4.069254
1.00000   -0.064098   -0.118188    0.069377
 1.21E-05 -0.187624   -3.923198

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.064098    0.118188   -0.069377
-1.21E-05 -0.155318    4.507423
0.25000    0.064098    0.118188   -0.069377
-1.21E-05 -0.069583    4.361366
0.50000    0.064098    0.118188   -0.069377
-1.21E-05  0.016153    4.215310
0.75000    0.064098    0.118188   -0.069377
 1.21E-05  0.101888    4.069254
1.00000    0.064098    0.118188   -0.069377
 1.21E-05  0.187624    3.923198

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.072838    0.118188    0.096198
1.21E-05   0.227208    4.507423
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     837

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
    T          M2          M3
0.25000    0.072838    0.118188    0.096198
 1.21E-05  0.108327    4.361366
0.50000    0.072838    0.118188    0.096198
 1.21E-05  0.016153    4.215310
0.75000    0.072838    0.118188    0.096198
 1.21E-05 -0.101888    4.069254
1.00000    0.072838    0.118188    0.096198
 1.21E-05  0.187624    3.923198

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.082200   -0.118188   -0.069377
-1.69E-05 -0.155318   -4.507423
0.25000   -0.082200   -0.118188   -0.069377
-1.69E-05 -0.069583   -4.361366
0.50000   -0.082200   -0.118188   -0.069377
-1.69E-05 -0.016153   -4.215310
0.75000   -0.082200   -0.118188   -0.069377
-1.69E-05 -0.129435   -4.069254
1.00000   -0.082200   -0.118188   -0.069377
-1.69E-05 -0.248316   -3.923198

ELEM      440 ================== LENGTH
=     4.943265

LOAD      -A1 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.085435   -0.054684   -0.021629
 5.89E-06 -0.059190   -1.845455
0.25000   -0.085435   -0.054684   -0.021629
 5.89E-06 -0.032460   -1.777876
0.50000   -0.085435   -0.054684   -0.021629
 5.89E-06 -0.005730   -1.710297
0.75000   -0.085435   -0.054684   -0.021629
 5.89E-06  0.021000   -1.642718
1.00000   -0.085435   -0.054684   -0.021629
 5.89E-06  0.047730   -1.575139

LOAD      -P1 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.071255    0.156565   -0.070938
-1.93E-05 -0.164495    3.623108
0.25000    0.071255    0.156565   -0.070938
-1.93E-05 -0.076829    3.429622
0.50000    0.071255    0.156565   -0.070938
-1.93E-05  0.010837    3.236136
0.75000    0.071255    0.156565   -0.070938
-1.93E-05  0.098503    3.042650
1.00000    0.071255    0.156565   -0.070938
-1.93E-05  0.186169    2.849164

LOAD      -P2 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.021170   -0.166317    0.115787
 1.03E-05  0.280828   -2.015770
0.25000    0.021170   -0.166317    0.115787
 1.03E-05  0.137737   -1.810232
0.50000    0.021170   -0.166317    0.115787
 1.03E-05 -0.005355   -1.604695
0.75000    0.021170   -0.166317    0.115787
 1.03E-05 -0.148447   -1.399158
1.00000    0.021170   -0.166317    0.115787
 1.03E-05 -0.291539   -1.193621

LOAD      -P3 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.005075    0.083871   -0.030173
 4.34E-06 -0.074253    0.309807
0.25000   -0.005075    0.083871   -0.030173
 4.34E-06 -0.036965    0.206157
0.50000   -0.005075    0.083871   -0.030173
 4.34E-06  0.000323    0.102508
0.75000   -0.005075    0.083871   -0.030173
 4.34E-06  0.037611   -0.001142
1.00000   -0.005075    0.083871   -0.030173
 4.34E-06  0.074899   -0.104791
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     838

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P4 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.003200   -0.023883    0.008904
-1.94E-06  0.021917   -0.087855
0.25000    0.003200   -0.023883    0.008904
-1.94E-06  0.010912   -0.058340
0.50000    0.003200   -0.023883    0.008904
-1.94E-06 -9.17E-05   -0.028826
0.75000    0.003200   -0.023883    0.008904
-1.94E-06 -0.011096    0.000689
1.00000    0.003200   -0.023883    0.008904
-1.94E-06 -0.022100    0.030204

LOAD      -P5 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.005114    0.004447   -0.001952
 7.64E-07 -0.004807    0.016165
0.25000   -0.005114    0.004447   -0.001952
 7.64E-07 -0.002395    0.010670
0.50000   -0.005114    0.004447   -0.001952
 7.64E-07  1.68E-05    0.005174
0.75000   -0.005114    0.004447   -0.001952
 7.64E-07  0.002429   -0.000321
1.00000   -0.005114    0.004447   -0.001952
 7.64E-07  0.004841   -0.005817

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.061066   -0.244884    0.103062
 1.42E-05  0.243555   -3.949080
0.25000   -0.061066   -0.244884    0.103062
 1.42E-05  0.116189   -3.646449
0.50000   -0.061066   -0.244884    0.103062
 1.42E-05 -0.011177   -3.343818
0.75000   -0.061066   -0.244884    0.103062
 1.42E-05 -0.138543   -3.041187
1.00000   -0.061066   -0.244884    0.103062
 1.42E-05 -0.265909   -2.738556

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.061066    0.244884   -0.103062
-1.42E-05 -0.243555    3.949080
0.25000    0.061066    0.244884   -0.103062
-1.42E-05 -0.116189    3.646449
0.50000    0.061066    0.244884   -0.103062
-1.42E-05  0.011177    3.343818
0.75000    0.061066    0.244884   -0.103062
-1.42E-05  0.138543    3.041187
1.00000    0.061066    0.244884   -0.103062
-1.42E-05  0.265909    2.738556

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.071255    0.244884    0.115787
1.42E-05   0.280828    3.949080
0.25000    0.071255    0.244884    0.115787
1.42E-05   0.137737    3.646449
0.50000    0.071255    0.244884    0.115787
1.42E-05   0.011177    3.343818
0.75000    0.071255    0.244884    0.115787
1.42E-05   0.138543    3.042650
1.00000    0.071255    0.244884    0.115787
1.42E-05   0.265909    2.849164

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.085435   -0.244884   -0.103062
-1.93E-05 -0.243555   -3.949080
0.25000   -0.085435   -0.244884   -0.103062
-1.93E-05 -0.116189   -3.646449
0.50000   -0.085435   -0.244884   -0.103062
-1.93E-05 -0.011177   -3.343818
0.75000   -0.085435   -0.244884   -0.103062
-1.93E-05 -0.148447   -3.041187
1.00000   -0.085435   -0.244884   -0.103062
-1.93E-05 -0.291539   -2.738556
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     839

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      441 ================== LENGTH
=     4.942631

LOAD      -A1 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.088479   -0.000957   -0.008312
 4.82E-06 -0.025686   -1.570895
0.25000   -0.088479   -0.000957   -0.008312
 4.82E-06 -0.015416   -1.569713
0.50000   -0.088479   -0.000957   -0.008312
 4.82E-06 -0.005146   -1.568531
0.75000   -0.088479   -0.000957   -0.008312
 4.82E-06  0.005125   -1.567348
1.00000   -0.088479   -0.000957   -0.008312
 4.82E-06  0.015395   -1.566166

LOAD      -P1 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.070163    0.072660   -0.095444
-1.80E-05 -0.226790    2.874248
0.25000    0.070163    0.072660   -0.095444
-1.80E-05 -0.108855    2.784466
0.50000    0.070163    0.072660   -0.095444
-1.80E-05  0.009081    2.694684
0.75000    0.070163    0.072660   -0.095444
-1.80E-05  0.127017    2.604901
1.00000    0.070163    0.072660   -0.095444
-1.80E-05  0.244952    2.515119

LOAD      -P2 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.026304   -0.156669    0.126261
 1.04E-05  0.308995   -1.229800
0.25000    0.026304   -0.156669    0.126261
 1.04E-05  0.152980   -1.036212
0.50000    0.026304   -0.156669    0.126261
 1.04E-05 -0.003035   -0.842623
0.75000    0.026304   -0.156669    0.126261
 1.04E-05 -0.159050   -0.649034
1.00000    0.026304   -0.156669    0.126261
 1.04E-05 -0.315065   -0.455445

LOAD      -P3 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.005009    0.110599   -0.029262
 3.95E-06 -0.073480   -0.095884
0.25000   -0.005009    0.110599   -0.029262
 3.95E-06 -0.037322   -0.232546
0.50000   -0.005009    0.110599   -0.029262
 3.95E-06 -0.001165   -0.369208
0.75000   -0.005009    0.110599   -0.029262
 3.95E-06  0.034993   -0.505870
1.00000   -0.005009    0.110599   -0.029262
 3.95E-06  0.071150   -0.642532

LOAD      -P4 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.003557   -0.031501    0.008671
-1.89E-06  0.021751    0.027568
0.25000    0.003557   -0.031501    0.008671
-1.89E-06  0.011037    0.066493
0.50000    0.003557   -0.031501    0.008671
-1.89E-06  0.000322    0.105418
0.75000    0.003557   -0.031501    0.008671
-1.89E-06 -0.010392    0.144343
1.00000    0.003557   -0.031501    0.008671
-1.89E-06 -0.021106    0.183267

LOAD      -P5 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.006537    0.005868   -0.001915
 7.88E-07 -0.004790   -0.005237
0.25000   -0.006537    0.005868   -0.001915
 7.88E-07 -0.002424   -0.012489
0.50000   -0.006537    0.005868   -0.001915
 7.88E-07 -5.79E-05   -0.019740
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                     840

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P          V2          V3
    T          M2          M3
0.75000   -0.006537    0.005868   -0.001915
 7.88E-07  0.002308   -0.026991
1.00000   -0.006537    0.005868   -0.001915
 7.88E-07  0.004674   -0.034243

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.058617   -0.189127    0.126620
 1.33E-05  0.305060   -2.773128
0.25000   -0.058617   -0.189127    0.126620
 1.33E-05  0.148601   -2.539432
0.50000   -0.058617   -0.189127    0.126620
 1.33E-05 -0.007858   -2.305736
0.75000   -0.058617   -0.189127    0.126620
 1.33E-05 -0.164317   -2.072040
1.00000   -0.058617   -0.189127    0.126620
 1.33E-05 -0.320776   -1.838344

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.058617    0.189127   -0.126620
-1.33E-05 -0.305060    2.773128
0.25000    0.058617    0.189127   -0.126620
-1.33E-05 -0.148601    2.539432
0.50000    0.058617    0.189127   -0.126620
-1.33E-05  0.007858    2.305736
0.75000    0.058617    0.189127   -0.126620
-1.33E-05  0.164317    2.072040
1.00000    0.058617    0.189127   -0.126620
-1.33E-05  0.320776    1.838344

COMB   SETTLE ------------------ MAX

REL DIST          P          V2          V3
    T          M2          M3
0.00000    0.070163    0.189127    0.126620
1.33E-05   0.308995    2.874248
0.25000    0.070163    0.189127    0.126620
1.33E-05   0.152980    2.784466
0.50000    0.070163    0.189127    0.126620
1.33E-05   0.009081    2.694684
0.75000    0.070163    0.189127    0.126620
1.33E-05   0.164317    2.604901
1.00000    0.070163    0.189127    0.126620
1.33E-05   0.320776    2.515119

COMB   SETTLE ------------------ MIN

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.088479   -0.189127   -0.126620
-1.80E-05 -0.305060   -2.773128
0.25000   -0.088479   -0.189127   -0.126620
-1.80E-05 -0.148601   -2.539432
0.50000   -0.088479   -0.189127   -0.126620
-1.80E-05 -0.007858   -2.305736
0.75000   -0.088479   -0.189127   -0.126620
-1.80E-05 -0.164317   -2.072040
1.00000   -0.088479   -0.189127   -0.126620
-1.80E-05 -0.320776   -1.838344

ELEM      442 ================== LENGTH
=     4.943051

LOAD      -A1 -------------------

REL DIST          P          V2          V3
    T          M2          M3
0.00000   -0.090043   -0.074218    0.003500
 2.48E-06  0.004121   -1.565492
0.25000   -0.090043   -0.074218    0.003500
 2.48E-06 -0.000203   -1.473776
0.50000   -0.090043   -0.074218    0.003500
 2.48E-06 -0.004528   -1.382060
0.75000   -0.090043   -0.074218    0.003500
 2.48E-06 -0.008853   -1.290344
1.00000   -0.090043   -0.074218    0.003500
```

2.48E-06 -0.013177 -1.198628
Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
841

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.067556	0.207513	-0.114955
-1.47E-05	-0.277259	2.546466	
0.25000	0.067556	0.207513	-0.114955
-1.47E-05	-0.135203	2.290029	
0.50000	0.067556	0.207513	-0.114955
-1.47E-05	0.006854	2.033593	
0.75000	0.067556	0.207513	-0.114955
-1.47E-05	0.148910	1.777156	
1.00000	0.067556	0.207513	-0.114955
-1.47E-05	0.290967	1.520720	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.031509	-0.216702	0.130154
1.05E-05	0.321664	-0.493663	
0.25000	0.031509	-0.216702	0.130154
1.05E-05	0.160824	-0.225870	
0.50000	0.031509	-0.216702	0.130154
1.05E-05	-1.57E-05	0.041923	
0.75000	0.031509	-0.216702	0.130154
1.05E-05	-0.160856	0.309715	
1.00000	0.031509	-0.216702	0.130154
1.05E-05	-0.321695	0.577508	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.004540	0.108566	-0.024366
2.55E-06	-0.063215	-0.634468	
0.25000	-0.004540	0.108566	-0.024366
2.55E-06	-0.033104	-0.768630	
0.50000	-0.004540	0.108566	-0.024366
2.55E-06	-0.002992	-0.902792	
0.75000	-0.004540	0.108566	-0.024366
2.55E-06	0.027119	-1.036954	
1.00000	-0.004540	0.108566	-0.024366
2.55E-06	0.057230	-1.171116	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.003926	-0.030906	0.007353
-1.52E-06	0.019006	0.180860	
0.25000	0.003926	-0.030906	0.007353
-1.52E-06	0.009920	0.219052	
0.50000	0.003926	-0.030906	0.007353
-1.52E-06	0.000834	0.257245	
0.75000	0.003926	-0.030906	0.007353
-1.52E-06	-0.008252	0.295437	
1.00000	0.003926	-0.030906	0.007353
-1.52E-06	-0.017338	0.333629	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.008408	0.005747	-0.001685
7.28E-07	-0.004317	-0.033703	
0.25000	-0.008408	0.005747	-0.001685
7.28E-07	-0.002234	-0.040806	
0.50000	-0.008408	0.005747	-0.001685
7.28E-07	-0.000151	-0.047908	
0.75000	-0.008408	0.005747	-0.001685
7.28E-07	0.001932	-0.055011	
1.00000	-0.008408	0.005747	-0.001685
7.28E-07	0.004014	-0.062113	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.054608	-0.321826	0.141006
1.14E-05	0.344791	-1.878294	
0.25000	-0.054608	-0.321826	0.141006
1.14E-05	0.170541	-1.480594	
0.50000	-0.054608	-0.321826	0.141006
1.14E-05	-0.003710	-1.082893	
0.75000	-0.054608	-0.321826	0.141006
1.14E-05	-0.177960	-0.685192	
1.00000	-0.054608	-0.321826	0.141006
1.14E-05	-0.352211	-0.287491	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
842

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.054608	0.321826	-0.141006
-1.14E-05	-0.344791	1.878294	
0.25000	0.054608	0.321826	-0.141006
-1.14E-05	-0.170541	1.480594	
0.50000	0.054608	0.321826	-0.141006
-1.14E-05	0.003710	1.082893	
0.75000	0.054608	0.321826	-0.141006
-1.14E-05	0.177960	0.685192	
1.00000	0.054608	0.321826	-0.141006
-1.14E-05	0.352211	0.287491	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.067556	0.321826	0.141006
1.14E-05	0.344791	2.546466	
0.25000	0.067556	0.321826	0.141006
1.14E-05	0.170541	2.290029	
0.50000	0.067556	0.321826	0.141006
1.14E-05	0.006854	2.033593	
0.75000	0.067556	0.321826	0.141006
1.14E-05	0.177960	1.777156	
1.00000	0.067556	0.321826	0.141006
1.14E-05	0.352211	1.520720	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.090043	-0.321826	-0.141006
-1.47E-05	-0.344791	-1.878294	
0.25000	-0.090043	-0.321826	-0.141006
-1.47E-05	-0.170541	-1.480594	
0.50000	-0.090043	-0.321826	-0.141006
-1.47E-05	-0.004528	-1.382060	
0.75000	-0.090043	-0.321826	-0.141006
-1.47E-05	-0.177960	-1.290344	
1.00000	-0.090043	-0.321826	-0.141006
-1.47E-05	-0.352211	-1.198628	

ELEM 443 ========== LENGTH = 4.942656

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.089409	-0.073506	0.012979
3.26E-07	0.028822	-1.201072	
0.25000	-0.089409	-0.073506	0.012979
3.26E-07	0.012784	-1.110244	
0.50000	-0.089409	-0.073506	0.012979
3.26E-07	-0.003254	-1.019415	
0.75000	-0.089409	-0.073506	0.012979
3.26E-07	-0.019292	-0.928586	
1.00000	-0.089409	-0.073506	0.012979
3.26E-07	-0.035330	-0.837757	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.062863	0.203793	-0.127612
-1.23E-05	-0.311895	1.556803	
0.25000	0.062863	0.203793	-0.127612
-1.23E-05	-0.154209	1.304983	
0.50000	0.062863	0.203793	-0.127612
-1.23E-05	0.003477	1.053164	
0.75000	0.062863	0.203793	-0.127612
-1.23E-05	0.161163	0.801344	
1.00000	0.062863	0.203793	-0.127612
-1.23E-05	0.318849	0.549524	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.036598	-0.210355	0.126229
1.20E-05	0.315364	0.539256	
0.25000	0.036598	-0.210355	0.126229
1.20E-05	0.159387	0.799184	
0.50000	0.036598	-0.210355	0.126229
1.20E-05	0.003410	1.059111	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
843

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	0.036598	-0.210355	0.126229
1.20E-05	-0.152567	1.319039	
1.00000	0.036598	-0.210355	0.126229
1.20E-05	-0.308544	1.578967	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.003464	0.104216	-0.015219
2.50E-07	-0.042321	-1.161096	
0.25000	-0.003464	0.104216	-0.015219
2.50E-07	-0.023514	-1.293872	
0.50000	-0.003464	0.104216	-0.015219
2.50E-07	-0.004708	-1.422648	
0.75000	-0.003464	0.104216	-0.015219
2.50E-07	0.014098	-1.551424	
1.00000	-0.003464	0.104216	-0.015219
2.50E-07	0.032904	-1.680201	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.004278	-0.029643	0.004872
-8.58E-07	0.013354	0.331786	
0.25000	0.004278	-0.029643	0.004872
-8.58E-07	0.007334	0.368414	
0.50000	0.004278	-0.029643	0.004872
-8.58E-07	0.001314	0.405042	
0.75000	0.004278	-0.029643	0.004872
-8.58E-07	-0.004706	0.441670	
1.00000	0.004278	-0.029643	0.004872
-8.58E-07	-0.010726	0.478299	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.010865	0.005494	-0.001249
5.93E-07	-0.003325	-0.061677	
0.25000	-0.010865	0.005494	-0.001249
5.93E-07	-0.001782	-0.068465	
0.50000	-0.010865	0.005494	-0.001249
5.93E-07	-0.000239	-0.075254	
0.75000	-0.010865	0.005494	-0.001249
5.93E-07	0.001304	-0.082043	
1.00000	-0.010865	0.005494	-0.001249
5.93E-07	0.002847	-0.088831	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.048533	-0.313503	0.144080
1.15E-05	0.357540	-0.330030	
0.25000	-0.048533	-0.313503	0.144080
1.15E-05	0.179505	-0.057354	
0.50000	-0.048533	-0.313503	0.144080
1.15E-05	0.001470	0.444739	
0.75000	-0.048533	-0.313503	0.144080
1.15E-05	-0.176565	0.832123	
1.00000	-0.048533	-0.313503	0.144080
1.15E-05	-0.354600	1.219508	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.048533	0.313503	-0.144080
-1.15E-05	0.357540	0.330030	
0.25000	0.048533	0.313503	-0.144080
-1.15E-05	0.179505	0.057354	
0.50000	0.048533	0.313503	-0.144080
-1.15E-05	0.001470	-0.444739	
0.75000	0.048533	0.313503	-0.144080
-1.15E-05	0.176565	-0.832123	
1.00000	0.048533	0.313503	-0.144080
-1.15E-05	0.354600	-1.219508	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.062863	0.313503	0.144080
1.20E-05	0.357540	1.556803	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
844

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.25000	0.062863	0.313503	0.144080
1.20E-05	0.179505	1.304983	
0.50000	0.062863	0.313503	0.144080
1.20E-05	0.003477	1.059111	
0.75000	0.062863	0.313503	0.144080
1.20E-05	0.176565	1.319039	
1.00000	0.062863	0.313503	0.144080
1.20E-05	0.354600	1.578967	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.089409	-0.313503	-0.144080
-1.23E-05	-0.357540	-1.201072	
0.25000	-0.089409	-0.313503	-0.144080
-1.23E-05	-0.179505	-1.293872	
0.50000	-0.089409	-0.313503	-0.144080
-1.23E-05	-0.004708	-1.422648	
0.75000	-0.089409	-0.313503	-0.144080
-1.23E-05	-0.176565	-1.551424	
1.00000	-0.089409	-0.313503	-0.144080
-1.23E-05	-0.354600	-1.680201	

ELEM 444 ========== LENGTH = 4.943326

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.086575	-0.076462	0.019395
-1.22E-06	0.045905	-0.842583	
0.25000	-0.086575	-0.076462	0.019395
-1.22E-06	0.021935	-0.748088	
0.50000	-0.086575	-0.076462	0.019395
-1.22E-06	-0.002034	-0.653593	
0.75000	-0.086575	-0.076462	0.019395
-1.22E-06	-0.026003	-0.559098	
1.00000	-0.086575	-0.076462	0.019395
-1.22E-06	-0.049972	-0.464604	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.056680	0.209945	-0.132032
-1.09E-05	-0.326163	0.588211	
0.25000	0.056680	0.209945	-0.132032
-1.09E-05	-0.162994	0.328755	
0.50000	0.056680	0.209945	-0.132032
-1.09E-05	0.000176	0.069298	
0.75000	0.056680	0.209945	-0.132032
-1.09E-05	0.163345	-0.190158	
1.00000	0.056680	0.209945	-0.132032
-1.09E-05	0.326515	-0.449615	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.040893	-0.214278	0.113850
1.44E-05	0.288268	1.543055	
0.25000	0.040893	-0.214278	0.113850
1.44E-05	0.147569	1.807866	
0.50000	0.040893	-0.214278	0.113850
1.44E-05	0.006869	2.072678	
0.75000	0.040893	-0.214278	0.113850
1.44E-05	-0.133830	2.337489	
1.00000	0.040893	-0.214278	0.113850
1.44E-05	-0.274530	2.602301	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.001487	0.105135	-0.001841
-2.76E-06	-0.011044	-1.677486	
0.25000	-0.001487	0.105135	-0.001841
-2.76E-06	-0.008770	1.807415	
0.50000	-0.001487	0.105135	-0.001841
-2.76E-06	-0.006495	-1.937345	
0.75000	-0.001487	0.105135	-0.001841
-2.76E-06	-0.004220	-2.067274	
1.00000	-0.001487	0.105135	-0.001841
-2.76E-06	-0.001945	-2.197203	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
845

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.004599	-0.029823	0.001233
1.02E-07	0.004860	0.477359	
0.25000	0.004599	-0.029823	0.001233
1.02E-07	0.003337	0.514215	
0.50000	0.004599	-0.029823	0.001233
1.02E-07	0.001813	0.551072	
0.75000	0.004599	-0.029823	0.001233
1.02E-07	0.000289	0.587929	
1.00000	0.004599	-0.029823	0.001233
1.02E-07	-0.001235	0.624785	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.014109	0.005484	-0.000605
3.37E-07	-0.001826	-0.088557	
0.25000	-0.014109	0.005484	-0.000605
3.37E-07	-0.001078	-0.095334	
0.50000	-0.014109	0.005484	-0.000605
3.37E-07	-0.000329	-0.102110	
0.75000	-0.014109	0.005484	-0.000605
3.37E-07	0.000419	-0.108887	
1.00000	-0.014109	0.005484	-0.000605
3.37E-07	0.001167	-0.115664	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.041084	-0.320564	0.134478
1.33E-05	0.339033	1.177831	
0.25000	-0.041084	-0.320564	0.134478
1.33E-05	0.172841	1.573994	
0.50000	-0.041084	-0.320564	0.134478
1.33E-05	0.006648	1.970157	
0.75000	-0.041084	-0.320564	0.134478
1.33E-05	-0.159544	2.366320	
1.00000	-0.041084	-0.320564	0.134478
1.33E-05	-0.325737	2.762482	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.041084	0.320564	-0.134478
-1.33E-05	-0.339033	-1.177831	
0.25000	0.041084	0.320564	-0.134478
-1.33E-05	0.172841	-1.573994	
0.50000	0.041084	0.320564	-0.134478
-1.33E-05	-0.006648	-1.970157	
0.75000	0.041084	0.320564	-0.134478
-1.33E-05	0.159544	-2.366320	
1.00000	0.041084	0.320564	-0.134478
-1.33E-05	0.325737	-2.762482	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.056680	0.320564	0.134478
1.44E-05	0.339033	1.540135	
0.25000	0.056680	0.320564	0.134478
1.44E-05	0.172841	1.807866	
0.50000	0.056680	0.320564	0.134478
1.44E-05	0.006869	2.072678	
0.75000	0.056680	0.320564	0.134478
1.44E-05	0.163345	2.366320	
1.00000	0.056680	0.320564	0.134478
1.44E-05	0.326515	2.762482	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.086575	-0.320564	-0.134478
-1.33E-05	-0.339033	-1.677486	
0.25000	-0.086575	-0.320564	-0.134478
-1.33E-05	-0.172841	-1.807415	
0.50000	-0.086575	-0.320564	-0.134478
-1.33E-05	-0.006648	-1.970157	
0.75000	-0.086575	-0.320564	-0.134478
-1.33E-05	-0.159544	-2.366320	
1.00000	-0.086575	-0.320564	-0.134478
-1.33E-05	-0.325737	-2.762482	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
846

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 445 ========== LENGTH = 4.943123

LOAD -A1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.081277	-0.078484	0.022745
-2.09E-06	0.055479	-0.470934	
0.25000	-0.081277	-0.078484	0.022745
-2.09E-06	0.027372	-0.373945	
0.50000	-0.081277	-0.078484	0.022745
-2.09E-06	-0.000735	-0.276955	
0.75000	-0.081277	-0.078484	0.022745
-2.09E-06	-0.028843	-0.179966	
1.00000	-0.081277	-0.078484	0.022745
-2.09E-06	-0.056950	-0.082977	

LOAD -P1 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.048336	0.152868	-0.128877
-1.08E-05	-0.321293	-0.410734	
0.25000	0.048336	0.152868	-0.128877
-1.08E-05	-0.162029	-0.599645	
0.50000	0.048336	0.152868	-0.128877
-1.08E-05	-0.002765	-0.788556	
0.75000	0.048336	0.152868	-0.128877
-1.08E-05	0.156498	-0.977467	
1.00000	0.048336	0.152868	-0.128877
-1.08E-05	0.315762	-1.166378	

LOAD -P2 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.044793	-0.075734	0.094479
1.80E-05	0.242686	-2.571261	
0.25000	0.044793	-0.075734	0.094479
1.80E-05	0.125931	-2.664852	
0.50000	0.044793	-0.075734	0.094479
1.80E-05	0.009176	-2.758443	
0.75000	0.044793	-0.075734	0.094479
1.80E-05	-0.107580	-2.852034	
1.00000	0.044793	-0.075734	0.094479
1.80E-05	-0.224335	-2.945625	

LOAD -P3 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.001668	0.001719	0.014737
-6.39E-06	0.029071	-2.199067	
0.25000	0.001668	0.001719	0.014737
-6.39E-06	0.010859	-2.201191	
0.50000	0.001668	0.001719	0.014737
-6.39E-06	-0.007353	-2.203316	
0.75000	0.001668	0.001719	0.014737
-6.39E-06	-0.025564	-2.205440	
1.00000	0.001668	0.001719	0.014737
-6.39E-06	-0.043776	-2.207564	

LOAD -P4 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.004883	-0.000316	-0.000273
1.38E-06	-0.006042	0.625074	
0.25000	0.004883	-0.000316	-0.000273
1.38E-06	-0.001997	0.625464	
0.50000	0.004883	-0.000316	-0.000273
1.38E-06	0.002048	0.625854	
0.75000	0.004883	-0.000316	-0.000273
1.38E-06	0.006094	0.626244	
1.00000	0.004883	-0.000316	-0.000273
1.38E-06	0.010139	0.626634	

LOAD -P5 ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.018403	-5.25E-05	0.000190
-8.91E-08	9.82E-05	-0.115600	
0.25000	-0.018403	-5.25E-05	0.000190
-8.91E-08	-0.000136	-0.115535	
0.50000	-0.018403	-5.25E-05	0.000190
-8.91E-08	-0.000371	-0.115470	

Program SAP2000 Nonlinear Version 7.42
File:하행S11-S1504.OUT

Page
< UNEQUAL SETTLEMENT >
847

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST T	P M2	V2 M3	V3
0.75000	-0.018403	-5.25E-05	0.000190
-8.91E-08	-0.000605	-0.115405	
1.00000	-0.018403	-5.25E-05	0.000190
-8.91E-08	-0.000839	-0.115340	

LOAD -2N+1- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	-0.031601	-0.154534	0.113950
1.73E-05	0.292124	2.725401	
0.25000	-0.031601	-0.154534	0.113950
1.73E-05	0.151306	2.916371	
0.50000	-0.031601	-0.154534	0.113950
1.73E-05	0.010489	3.107341	
0.75000	-0.031601	-0.154534	0.113950
1.73E-05	-0.130329	3.298312	
1.00000	-0.031601	-0.154534	0.113950
1.73E-05	-0.271146	3.489282	

LOAD -2N+2- ----------

REL DIST T	P M2	V2 M3	V3
0.00000	0.031601	0.154534	-0.113950
-1.73E-05	-0.292124	-2.725401	
0.25000	0.031601	0.154534	-0.113950
-1.73E-05	-0.151306	-2.916371	
0.50000	0.031601	0.154534	-0.113950
-1.73E-05	-0.010489	-3.107341	
0.75000	0.031601	0.154534	-0.113950
-1.73E-05	0.130329	-3.298312	
1.00000	0.031601	0.154534	-0.113950
-1.73E-05	0.271146	-3.489282	

COMB SETTLE ---------- MAX

REL DIST T	P M2	V2 M3	V3
0.00000	0.048336	0.154534	0.113950
1.80E-05	0.292124	2.725401	
0.25000	0.048336	0.154534	0.113950
1.80E-05	0.151306	2.916371	
0.50000	0.048336	0.154534	0.113950
1.80E-05	0.010489	3.107341	
0.75000	0.048336	0.154534	0.113950
1.80E-05	0.156498	3.298312	
1.00000	0.048336	0.154534	0.113950
1.80E-05	0.315762	3.489282	

COMB SETTLE ---------- MIN

REL DIST T	P M2	V2 M3	V3
0.00000	-0.081277	-0.154534	-0.128877
-1.73E-05	-0.321293	-2.725401	
0.25000	-0.081277	-0.154534	-0.128877
-1.73E-05	-0.162029	-2.916371	
0.50000	-0.081277	-0.154534	-0.128877
-1.73E-05	-0.010489	-3.107341	
0.75000	-0.081277	-0.154534	-0.128877
-1.73E-05	-0.130329	-3.298312	
1.00000	-0.081277	-0.154534	-0.128877
-1.73E-05	-0.271146	-3.489282	

ELEM 446 ========== LENGTH = 4.943048

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.074055 -0.058961 0.023228
-2.04E-06 -0.089863 -0.077727
0.25000 -0.074055 -0.058961 0.023228
-2.04E-06 0.029023 -0.017001
0.50000 -0.074055 -0.058961 0.023228
-2.04E-06 0.000318 0.055861
0.75000 -0.074055 -0.058961 0.023228
-2.04E-06 -0.028386 0.128723
1.00000 -0.074055 -0.058961 0.023228
-2.04E-06 -0.057091 0.201584

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.040582 0.161364 -0.119330
-1.08E-05 -0.299954 -1.129412
0.25000 0.040582 0.161364 -0.119330
-1.08E-05 -0.152490 -1.328619
0.50000 0.040582 0.161364 -0.119330
-1.08E-05 -0.005026 -1.528226
0.75000 0.040582 0.161364 -0.119330
-1.08E-05 0.142438 -1.727633
1.00000 0.040582 0.161364 -0.119330
-1.08E-05 0.289902 -1.927040

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.046784 -0.161764 0.069988
1.94E-05 0.183980 2.921109
0.25000 0.046784 -0.161764 0.069988
1.94E-05 0.097491 3.121011
0.50000 0.046784 -0.161764 0.069988
1.94E-05 0.011002 3.320912
0.75000 0.046784 -0.161764 0.069988
1.94E-05 -0.075487 3.520814
1.00000 0.046784 -0.161764 0.069988
1.94E-05 -0.161976 3.720715

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.005506 0.077126 0.033360
-8.29E-06 0.074299 -2.214648
0.25000 0.005506 0.077126 0.033360
-8.29E-06 0.033074 -2.309957
0.50000 0.005506 0.077126 0.033360
-8.29E-06 -0.008151 -2.405266
0.75000 0.005506 0.077126 0.033360
-8.29E-06 -0.049377 -2.500575
1.00000 0.005506 0.077126 0.033360
-8.29E-06 -0.090602 -2.595884

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.005270 -0.021612 -0.008319
2.40E-06 -0.018298 0.628340
0.25000 0.005270 -0.021612 -0.008319
2.40E-06 -0.008018 0.655048
0.50000 0.005270 -0.021612 -0.008319
2.40E-06 0.002263 0.681755
0.75000 0.005270 -0.021612 -0.008319
2.40E-06 0.012543 0.708462
1.00000 0.005270 -0.021612 -0.008319
2.40E-06 0.022823 0.735170

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.024087 0.003848 0.001073
-6.28E-07 0.002246 -0.115525
0.25000 -0.024087 0.003848 0.001073
-6.28E-07 0.000920 -0.120280
0.50000 -0.024087 0.003848 0.001073
-6.28E-07 -0.000406 -0.125035
0.75000 -0.024087 0.003848 0.001073
-6.28E-07 -0.001731 -0.129790
1.00000 -0.024087 0.003848 0.001073
-6.28E-07 -0.003057 -0.134545

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.022001 -0.242337 0.084897
1.97E-05 0.223409 3.459586
0.25000 -0.022001 -0.242337 0.084897
1.97E-05 0.118496 3.759057
0.50000 -0.022001 -0.242337 0.084897
1.97E-05 0.013583 4.058528
0.75000 -0.022001 -0.242337 0.084897
1.97E-05 -0.091330 4.357999
1.00000 -0.022001 -0.242337 0.084897
1.97E-05 -0.196243 4.657470

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.022001 0.242337 -0.084897
-1.97E-05 -0.223409 -3.459586
0.25000 0.022001 0.242337 -0.084897
-1.97E-05 -0.118496 -3.759057
0.50000 0.022001 0.242337 -0.084897
-1.97E-05 -0.013583 -4.058528
0.75000 0.022001 0.242337 -0.084897
-1.97E-05 0.091330 -4.357999
1.00000 0.022001 0.242337 -0.084897
-1.97E-05 0.196243 -4.657470

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.046784 0.242337 0.084897
1.97E-05 0.223409 3.459586
0.25000 0.046784 0.242337 0.084897
1.97E-05 0.118496 3.759057
0.50000 0.046784 0.242337 0.084897
1.97E-05 0.013583 4.058528
0.75000 0.046784 0.242337 0.084897
1.97E-05 0.142438 4.357999
1.00000 0.046784 0.242337 0.084897
1.97E-05 0.289902 4.657470

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.074055 -0.242337 -0.119330
-1.97E-05 -0.299954 -3.459586
0.25000 -0.074055 -0.242337 -0.119330
-1.97E-05 -0.152490 -3.759057
0.50000 -0.074055 -0.242337 -0.119330
-1.97E-05 -0.013583 -4.058528
0.75000 -0.074055 -0.242337 -0.119330
-1.97E-05 -0.091330 -4.357999
1.00000 -0.074055 -0.242337 -0.119330
-1.97E-05 -0.196243 -4.657470

ELEM 447 ========== LENGTH = 4.943134

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.064974 -0.046956 0.020614
-1.30E-06 0.052763 0.194991
0.25000 -0.064974 -0.046956 0.020614
-1.30E-06 0.027289 0.253018
0.50000 -0.064974 -0.046956 0.020614
-1.30E-06 0.001814 0.311046
0.75000 -0.064974 -0.046956 0.020614
-1.30E-06 -0.023660 0.369073
1.00000 -0.064974 -0.046956 0.020614
-1.30E-06 -0.049134 0.427101

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.032727 0.094598 -0.100735
-9.23E-06 -0.259128 -1.894078
0.25000 0.032727 0.094598 -0.100735
-9.23E-06 -0.134641 -2.010980
0.50000 0.032727 0.094598 -0.100735
-9.23E-06 -0.010155 -2.127883
0.75000 0.032727 0.094598 -0.100735
-9.23E-06 0.114332 -2.244785
1.00000 0.032727 0.094598 -0.100735
-9.23E-06 0.238819 -2.361688

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.049015 -0.048242 0.039743
1.70E-05 0.112000 3.704255
0.25000 0.049015 -0.048242 0.039743
1.70E-05 0.062887 3.763872
0.50000 0.049015 -0.048242 0.039743
1.70E-05 0.013773 3.823488

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 0.049015 -0.048242 0.039743
1.70E-05 -0.035340 3.883105
1.00000 0.049015 -0.048242 0.039743
1.70E-05 -0.084453 3.942722

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.008754 0.000626 0.051729
-8.41E-06 0.120800 -2.608565
0.25000 0.008754 0.000626 0.051729
-8.41E-06 0.056875 -2.609339
0.50000 0.008754 0.000626 0.051729
-8.41E-06 -0.007051 -2.610113
0.75000 0.008754 0.000626 0.051729
-8.41E-06 -0.070976 -2.610887
1.00000 0.008754 0.000626 0.051729
-8.41E-06 -0.134902 -2.611661

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.006071 0.000588 -0.013294
3.49E-06 -0.030876 0.738393
0.25000 0.006071 0.000588 -0.013294
3.49E-06 -0.014448 0.737666
0.50000 0.006071 0.000588 -0.013294
3.49E-06 0.001981 0.736939
0.75000 0.006071 0.000588 -0.013294
3.49E-06 0.018409 0.736212
1.00000 0.006071 0.000588 -0.013294
3.49E-06 0.034837 0.735484

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.031594 -0.000614 0.001944
-1.56E-06 0.004441 -0.134995
0.25000 -0.031594 -0.000614 0.001944
-1.56E-06 0.002039 -0.134236
0.50000 -0.031594 -0.000614 0.001944
-1.56E-06 -0.000363 -0.133477
0.75000 -0.031594 -0.000614 0.001944
-1.56E-06 -0.002765 -0.132718
1.00000 -0.031594 -0.000614 0.001944
-1.56E-06 -0.005166 -0.131958

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.009888 -0.094610 0.047063
1.92E-05 0.133887 4.637639
0.25000 -0.009888 -0.094610 0.047063
1.92E-05 0.075728 4.754556
0.50000 -0.009888 -0.094610 0.047063
1.92E-05 0.017568 4.871473
0.75000 -0.009888 -0.094610 0.047063
1.92E-05 -0.040591 4.988390
1.00000 -0.009888 -0.094610 0.047063
1.92E-05 -0.098751 5.105307

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.009888 0.094610 -0.047063
-1.92E-05 -0.133887 -4.637639
0.25000 0.009888 0.094610 -0.047063
-1.92E-05 -0.075728 -4.754556
0.50000 0.009888 0.094610 -0.047063
-1.92E-05 -0.017568 -4.871473
0.75000 0.009888 0.094610 -0.047063
-1.92E-05 0.040591 -4.988390
1.00000 0.009888 0.094610 -0.047063
-1.92E-05 0.098751 -5.105307

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.049015 0.094610 0.051729
1.92E-05 0.133887 4.637639

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 0.049015 0.094610 0.051729
1.92E-05 0.075728 4.754556
0.50000 0.049015 0.094610 0.051729
1.92E-05 0.017568 4.871473
0.75000 0.049015 0.094610 0.051729
1.92E-05 0.114332 4.988390
1.00000 0.049015 0.094610 0.051729
1.92E-05 0.238819 5.105307

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.064974 -0.094610 -0.100735
-1.92E-05 -0.259128 -4.637639
0.25000 -0.064974 -0.094610 -0.100735
-1.92E-05 -0.134641 -4.754556
0.50000 -0.064974 -0.094610 -0.100735
-1.92E-05 -0.010155 -4.871473
0.75000 -0.064974 -0.094610 -0.100735
-1.92E-05 -0.070976 -4.988390
1.00000 -0.064974 -0.094610 -0.100735
-1.92E-05 -0.134902 -5.105307

ELEM 448 ========== LENGTH = 3.459686

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.053698 -0.030898 0.033451
-3.18E-07 0.060194 0.420539
0.25000 -0.053698 -0.030898 0.033451
-3.18E-07 0.031262 0.447264
0.50000 -0.053698 -0.030898 0.033451
-3.18E-07 0.002329 0.473988
0.75000 -0.053698 -0.030898 0.033451
-3.18E-07 -0.026603 0.500712
1.00000 -0.053698 -0.030898 0.033451
-3.18E-07 -0.055535 0.527436

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.023566 0.042295 -0.160694
-5.18E-06 -0.288931 -3.330016
0.25000 0.023566 0.042295 -0.160694
-5.18E-06 -0.149943 -2.366597
0.50000 0.023566 0.042295 -0.160694
-5.18E-06 -0.010955 -2.403179
0.75000 0.023566 0.042295 -0.160694
-5.18E-06 0.128033 -2.439760
1.00000 0.023566 0.042295 -0.160694
-5.18E-06 0.267021 -2.476342

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.052616 0.017449 0.024594
9.72E-06 0.054891 3.934345
0.25000 0.052616 0.017449 0.024594
9.72E-06 0.033619 3.919253
0.50000 0.052616 0.017449 0.024594
9.72E-06 0.012348 3.904161
0.75000 0.052616 0.017449 0.024594
9.72E-06 -0.008924 3.889069
1.00000 0.052616 0.017449 0.024594
9.72E-06 -0.030195 3.873977

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.011527 -0.038244 0.131599
-5.69E-06 0.222810 -2.633111
0.25000 0.011527 -0.038244 0.131599
-5.69E-06 0.108987 -2.600033
0.50000 0.011527 -0.038244 0.131599
-5.69E-06 -0.004835 -2.566955
0.75000 0.011527 -0.038244 0.131599
-5.69E-06 -0.118658 -2.533876
1.00000 0.011527 -0.038244 0.131599
-5.69E-06 -0.232480 -2.500798

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.007415 0.009766 -0.034175
4.42E-06 -0.057732 0.741036
0.25000 0.007415 0.009766 -0.034175
4.42E-06 -0.028174 0.732589
0.50000 0.007415 0.009766 -0.034175
4.42E-06 0.001385 0.724141
0.75000 0.007415 0.009766 -0.034175
4.42E-06 0.030943 0.715694
1.00000 0.007415 0.009766 -0.034175
4.42E-06 0.060501 0.707247

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.041425 -0.000368 0.005226
-2.94E-06 0.008768 -0.132793
0.25000 -0.041425 -0.000368 0.005226
-2.94E-06 0.004248 -0.132475
0.50000 -0.041425 -0.000368 0.005226
-2.94E-06 -0.000271 -0.132157
0.75000 -0.041425 -0.000368 0.005226
-2.94E-06 -0.004791 -0.131839
1.00000 -0.041425 -0.000368 0.005226
-2.94E-06 -0.009311 -0.131521

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.006332 -0.003682 0.023870
1.38E-05 0.057353 5.095920
0.25000 0.006332 -0.003682 0.023870
1.38E-05 0.036707 5.099105
0.50000 0.006332 -0.003682 0.023870
1.38E-05 0.016062 5.102290
0.75000 0.006332 -0.003682 0.023870
1.38E-05 -0.004584 5.105475
1.00000 0.006332 -0.003682 0.023870
1.38E-05 -0.025229 5.108660

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.006332 0.003682 -0.023870
-1.38E-05 -0.057353 -5.095920
0.25000 -0.006332 0.003682 -0.023870
-1.38E-05 -0.036707 -5.099105
0.50000 -0.006332 0.003682 -0.023870
-1.38E-05 -0.016062 -5.102290
0.75000 -0.006332 0.003682 -0.023870
-1.38E-05 0.004584 -5.105475
1.00000 -0.006332 0.003682 -0.023870
-1.38E-05 0.025229 -5.108660

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.052616 0.042295 0.131599
1.38E-05 0.222810 5.095920
0.25000 0.052616 0.042295 0.131599
1.38E-05 0.108987 5.099105
0.50000 0.052616 0.042295 0.131599
1.38E-05 0.016062 5.102290
0.75000 0.052616 0.042295 0.131599
1.38E-05 0.128033 5.105475
1.00000 0.052616 0.042295 0.131599
1.38E-05 0.267021 5.108660

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.053698 -0.038244 -0.160694
-1.38E-05 -0.288931 -5.095920
0.25000 -0.053698 -0.038244 -0.160694
-1.38E-05 -0.149943 -5.099105
0.50000 -0.053698 -0.038244 -0.160694
-1.38E-05 -0.016062 -5.102290
0.75000 -0.053698 -0.038244 -0.160694
-1.38E-05 -0.118658 -5.105475
1.00000 -0.053698 -0.038244 -0.160694
-1.38E-05 -0.232480 -5.108660

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 449 ========== LENGTH = 3.460360

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.040914 -0.009144 0.027635
-8.56E-07 0.048805 0.521170
0.25000 -0.040914 -0.009144 0.027635
-8.56E-07 0.024898 0.529080
0.50000 -0.040914 -0.009144 0.027635
-8.56E-07 0.000991 0.536991
0.75000 -0.040914 -0.009144 0.027635
-8.56E-07 -0.022916 0.544901
1.00000 -0.040914 -0.009144 0.027635
-8.56E-07 -0.046823 0.552812

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.015610 0.038540 -0.132797
5.20E-06 -0.234418 -2.446093
0.25000 0.015610 0.038540 -0.132797
5.20E-06 -0.119536 -2.479433
0.50000 0.015610 0.038540 -0.132797
5.20E-06 -0.004655 -2.512774
0.75000 0.015610 0.038540 -0.132797
5.20E-06 0.110227 -2.546114
1.00000 0.015610 0.038540 -0.132797
5.20E-06 0.225108 -2.579455

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.053542 -0.019806 -0.019483
-9.87E-06 -0.021469 3.873122
0.25000 0.053542 -0.019806 -0.019483
-9.87E-06 -0.004614 3.890256
0.50000 0.053542 -0.019806 -0.019483
-9.87E-06 0.012240 3.907390
0.75000 0.053542 -0.019806 -0.019483
-9.87E-06 0.029095 3.924524
1.00000 0.053542 -0.019806 -0.019483
-9.87E-06 0.045949 3.941658

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.016035 -0.041500 0.159818
4.50E-06 0.265431 -2.530483
0.25000 0.016035 -0.041500 0.159818
4.50E-06 0.127174 -2.494581
0.50000 0.016035 -0.041500 0.159818
4.50E-06 -0.011082 -2.458680
0.75000 0.016035 -0.041500 0.159818
4.50E-06 -0.149339 -2.422779
1.00000 0.016035 -0.041500 0.159818
4.50E-06 -0.287595 -2.386877

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.009155 0.037688 -0.041442
4.03E-06 -0.068816 0.714988
0.25000 0.009155 0.037688 -0.041442
4.03E-06 -0.032965 0.682384
0.50000 0.009155 0.037688 -0.041442
4.03E-06 0.002887 0.649780
0.75000 0.009155 0.037688 -0.041442
4.03E-06 0.038738 0.617177
1.00000 0.009155 0.037688 -0.041442
4.03E-06 0.074589 0.584573

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.053427 -0.005778 0.006269
-3.01E-06 0.010467 -0.132704
0.25000 -0.053427 -0.005778 0.006269
-3.01E-06 0.005043 -0.127705
0.50000 -0.053427 -0.005778 0.006269
-3.01E-06 -0.000380 -0.122707

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.053427 -0.005778 0.006269
-3.01E-06 -0.005804 -0.117709
1.00000 -0.053427 -0.005778 0.006269
-3.01E-06 -0.011228 -0.112710

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.021783 0.008738 -0.033290
-6.69E-06 -0.041480 5.109279
0.25000 0.021783 0.008738 -0.033290
-6.69E-06 -0.012681 5.101720
0.50000 0.021783 0.008738 -0.033290
-6.69E-06 0.016118 5.094161
0.75000 0.021783 0.008738 -0.033290
-6.69E-06 0.044916 5.086602
1.00000 0.021783 0.008738 -0.033290
-6.69E-06 0.073715 5.079043

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.021783 -0.008738 0.033290
6.69E-06 0.041480 -5.109279
0.25000 -0.021783 -0.008738 0.033290
6.69E-06 0.012681 -5.101720
0.50000 -0.021783 -0.008738 0.033290
6.69E-06 -0.016118 -5.094161
0.75000 -0.021783 -0.008738 0.033290
6.69E-06 -0.044916 -5.086602
1.00000 -0.021783 -0.008738 0.033290
6.69E-06 -0.073715 -5.079043

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.053542 0.038540 0.159818
6.69E-06 0.265431 5.109279
0.25000 0.053542 0.038540 0.159818
6.69E-06 0.127174 5.101720
0.50000 0.053542 0.038540 0.159818
6.69E-06 0.016118 5.094161
0.75000 0.053542 0.038540 0.159818
6.69E-06 0.110227 5.086602
1.00000 0.053542 0.038540 0.159818
6.69E-06 0.225108 5.079043

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.053427 -0.041500 -0.132797
-9.87E-06 -0.234418 -5.109279
0.25000 -0.053427 -0.041500 -0.132797

```
-9.87E-06   -0.119536   -5.101720
 0.50000    -0.053427   -0.041500   -0.132797
-9.87E-06   -0.016118   -5.094161
 0.75000    -0.053427   -0.041500   -0.132797
-9.87E-06   -0.149339   -5.086602
 1.00000    -0.053427   -0.041500   -0.132797
-9.87E-06   -0.287595   -5.079043

ELEM      450 ================== LENGTH
=     4.943361

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.030270    0.000196    0.010950
-1.49E-06    0.028533    0.548273
 0.25000   -0.030270    0.000196    0.010950
-1.49E-06    0.015500    0.548031
 0.50000   -0.030270    0.000196    0.010950
-1.49E-06    0.001467    0.547789
 0.75000   -0.030270    0.000196    0.010950
-1.49E-06   -0.012066    0.547548
 1.00000   -0.030270    0.000196    0.010950
-1.49E-06   -0.025599    0.547306
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  855

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.009333   -0.000782   -0.052672
 8.01E-06  -0.137063   -2.557546
 0.25000    0.009333   -0.000782   -0.052672
 8.01E-06  -0.071969   -2.556580
 0.50000    0.009333   -0.000782   -0.052672
 8.01E-06  -0.006874   -2.555614
 0.75000    0.009333   -0.000782   -0.052672
 8.01E-06   0.058220   -2.554648
 1.00000    0.009333   -0.000782   -0.052672
 8.01E-06   0.123315   -2.553682

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.051155    0.046622   -0.037051
-1.70E-05   -0.077872    3.948758
 0.25000    0.051155    0.046622   -0.037051
-1.70E-05   -0.032083    3.891141
 0.50000    0.051155    0.046622   -0.037051
-1.70E-05    0.013706    3.833524
 0.75000    0.051155    0.046622   -0.037051
-1.70E-05    0.059496    3.775907
 1.00000    0.051155    0.046622   -0.037051
-1.70E-05    0.105285    3.718290

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.023404   -0.095995    0.100538
 8.55E-06   0.238231   -2.418254
 0.25000    0.023404   -0.095995    0.100538
 8.55E-06   0.113982   -2.299619
 0.50000    0.023404   -0.095995    0.100538
 8.55E-06  -0.010266   -2.180984
 0.75000    0.023404   -0.095995    0.100538
 8.55E-06  -0.134515   -2.062349
 1.00000    0.023404   -0.095995    0.100538
 8.55E-06  -0.258763   -1.943714

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.010381    0.061824   -0.025430
 3.75E-06  -0.060637    0.592671
 0.25000    0.010381    0.061824   -0.025430
 3.75E-06  -0.029211    0.516266
 0.50000    0.010381    0.061824   -0.025430
 3.75E-06   0.002216    0.439861
 0.75000    0.010381    0.061824   -0.025430
 3.75E-06   0.033643    0.363456
 1.00000    0.010381    0.061824   -0.025430
 3.75E-06   0.065070    0.287051

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.064002   -0.011865    0.003665
-1.84E-06    0.008809   -0.113903
 0.25000   -0.064002   -0.011865    0.003665
-1.84E-06    0.004280   -0.099240
 0.50000   -0.064002   -0.011865    0.003665
-1.84E-06   -0.000249   -0.084577
 0.75000   -0.064002   -0.011865    0.003665
-1.84E-06   -0.004778   -0.069914
 1.00000   -0.064002   -0.011865    0.003665
-1.84E-06   -0.009308   -0.055250

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.031265    0.108642   -0.051530
-1.47E-05   -0.109977    5.089703
 0.25000    0.031265    0.108642   -0.051530
-1.47E-05   -0.046294    4.955439
 0.50000    0.031265    0.108642   -0.051530
-1.47E-05    0.017389    4.821175
 0.75000    0.031265    0.108642   -0.051530
-1.47E-05    0.081073    4.686911
 1.00000    0.031265    0.108642   -0.051530
-1.47E-05    0.144756    4.552647
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  856

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.031265   -0.108642    0.051530
 1.47E-05   0.109977   -5.089703
 0.25000   -0.031265   -0.108642    0.051530
 1.47E-05   0.046294   -4.955439
 0.50000   -0.031265   -0.108642    0.051530
 1.47E-05   0.017389   -4.821175
 0.75000   -0.031265   -0.108642    0.051530
 1.47E-05   0.081073   -4.686911
 1.00000   -0.031265   -0.108642    0.051530
 1.47E-05   0.144756   -4.552647

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.051155    0.108642    0.100538
 1.47E-05   0.238231    5.089703
 0.25000    0.051155    0.108642    0.100538
 1.47E-05   0.113982    4.955439
 0.50000    0.051155    0.108642    0.100538
 1.47E-05   0.017389    4.821175
 0.75000    0.051155    0.108642    0.100538
 1.47E-05   0.081073    4.686911
 1.00000    0.051155    0.108642    0.100538
 1.47E-05   0.144756    4.552647

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.064002   -0.108642   -0.052672
-1.70E-05   -0.137063   -5.089703
 0.25000   -0.064002   -0.108642   -0.052672
-1.70E-05   -0.071969   -4.955439
 0.50000   -0.064002   -0.108642   -0.052672
-1.70E-05   -0.017389   -4.821175
 0.75000   -0.064002   -0.108642   -0.052672
-1.70E-05   -0.134515   -4.686911
 1.00000   -0.064002   -0.108642   -0.052672
-1.70E-05   -0.258763   -4.552647

ELEM      451 ================== LENGTH
=     4.942856

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.022043    0.016204    0.007177
-1.56E-06    0.019430    0.544603
 0.25000   -0.022043    0.016204    0.007177
-1.56E-06    0.010562    0.524580
 0.50000   -0.022043    0.016204    0.007177
-1.56E-06    0.001694    0.504556
 0.75000   -0.022043    0.016204    0.007177
-1.56E-06   -0.007174    0.484533
 1.00000   -0.022043    0.016204    0.007177
-1.56E-06   -0.016043    0.464509

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.003910   -0.075809   -0.034709
 8.23E-06  -0.093755   -2.540655
 0.25000    0.003910   -0.075809   -0.034709
 8.23E-06  -0.050865   -2.446977
 0.50000    0.003910   -0.075809   -0.034709
 8.23E-06  -0.007975   -2.353299
 0.75000    0.003910   -0.075809   -0.034709
 8.23E-06   0.034915   -2.259621
 1.00000    0.003910   -0.075809   -0.034709
 8.23E-06   0.077805   -2.165943

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.050041    0.159768   -0.067229
-1.97E-05   -0.155126    3.733918
 0.25000    0.050041    0.159768   -0.067229
-1.97E-05   -0.072051    3.536491
 0.50000    0.050041    0.159768   -0.067229
-1.97E-05    0.011025    3.339064
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  857

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.75000    0.050041    0.159768   -0.067229
-1.97E-05    0.094100    3.141636
 1.00000    0.050041    0.159768   -0.067229
-1.97E-05    0.177175    2.944209

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.029143   -0.162237    0.119411
 1.04E-05   0.289974   -1.976646
 0.25000    0.029143   -0.162237    0.119411
 1.04E-05   0.142416   -1.776167
 0.50000    0.029143   -0.162237    0.119411
 1.04E-05  -0.005142   -1.575688
 0.75000    0.029143   -0.162237    0.119411
 1.04E-05  -0.152700   -1.375209
 1.00000    0.029143   -0.162237    0.119411
 1.04E-05  -0.300258   -1.174730

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.011849    0.076348   -0.028503
 3.89E-06  -0.070124    0.295164
 0.25000    0.011849    0.076348   -0.028503
 3.89E-06  -0.034903    0.070319
 0.50000    0.011849    0.076348   -0.028503
 3.89E-06   0.000318    0.106475
 0.75000    0.011849    0.076348   -0.028503
 3.89E-06   0.035539    0.012131
 1.00000    0.011849    0.076348   -0.028503
 3.89E-06   0.070761   -0.082214

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.072900   -0.014274    0.003852
-1.24E-06   -0.009601    0.038585
 0.25000   -0.072900   -0.014274    0.003852
-1.24E-06    0.004841   -0.038746
 0.50000   -0.072900   -0.014274    0.003852
-1.24E-06    8.07E-05   -0.021108
 0.75000   -0.072900   -0.014274    0.003852
-1.24E-06   -0.004680   -0.003470
 1.00000   -0.072900   -0.014274    0.003852
-1.24E-06   -0.009440    0.014168

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.039848    0.252320   -0.088555
-1.74E-05   -0.205820    4.573685
 0.25000    0.039848    0.252320   -0.088555
-1.74E-05   -0.096392    4.261890
 0.50000    0.039848    0.252320   -0.088555
-1.74E-05    0.013037    3.950095
 0.75000    0.039848    0.252320   -0.088555
-1.74E-05    0.122465    3.638300
 1.00000    0.039848    0.252320   -0.088555
-1.74E-05    0.231893    3.326505

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.039848   -0.252320    0.088555
 1.74E-05   0.205820   -4.573685
 0.25000   -0.039848   -0.252320    0.088555
 1.74E-05   0.096392   -4.261890
 0.50000   -0.039848   -0.252320    0.088555
 1.74E-05   -0.013037   -3.950095
 0.75000   -0.039848   -0.252320    0.088555
 1.74E-05   -0.122465   -3.638300
 1.00000   -0.039848   -0.252320    0.088555
 1.74E-05   -0.231893   -3.326505

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.050041    0.252320    0.119411
 1.74E-05   0.289974    4.573685
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  858

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.25000    0.050041    0.252320    0.119411
 1.74E-05   0.142416    4.261890
 0.50000    0.050041    0.252320    0.119411
 1.74E-05   0.013037    3.950095
 0.75000    0.050041    0.252320    0.119411
 1.74E-05   0.122465    3.638300
 1.00000    0.050041    0.252320    0.119411
 1.74E-05   0.231893    3.326505

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.072900   -0.252320   -0.088555
-1.97E-05   -0.205820   -4.573685
 0.25000   -0.072900   -0.252320   -0.088555
-1.97E-05    0.096392   -4.261890
 0.50000   -0.072900   -0.252320   -0.088555
-1.97E-05   -0.013037   -3.950095
 0.75000   -0.072900   -0.252320   -0.088555
-1.97E-05   -0.152700   -3.638300
 1.00000   -0.072900   -0.252320   -0.088555
-1.97E-05   -0.300258   -3.326505

ELEM      452 ================== LENGTH
=     4.943454

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.015566   -0.007016    0.003271
-1.24E-06    0.009675    0.462967
 0.25000   -0.015566   -0.007016    0.003271
-1.24E-06    0.005632    0.471637
 0.50000   -0.015566   -0.007016    0.003271
-1.24E-06    0.001590    0.480308
 0.75000   -0.015566   -0.007016    0.003271
-1.24E-06   -0.002452    0.488979
 1.00000   -0.015566   -0.007016    0.003271
-1.24E-06   -0.006495    0.497650

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.001679    0.032706   -0.016115
 6.49E-06  -0.047313   -2.158439
 0.25000   -0.001679    0.032706   -0.016115
 6.49E-06  -0.027396   -2.198859
 0.50000   -0.001679    0.032706   -0.016115
 6.49E-06  -0.007480   -2.239279
 0.75000   -0.001679    0.032706   -0.016115
 6.49E-06   0.012436   -2.279700
 1.00000   -0.001679    0.032706   -0.016115
 6.49E-06   0.032352   -2.320120

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.048957    0.030745   -0.092232
-1.83E-05   -0.218353    2.967955
 0.25000    0.048957    0.030745   -0.092232
-1.83E-05   -0.104367    2.929958
 0.50000    0.048957    0.030745   -0.092232
-1.83E-05    0.009619    2.891962
 0.75000    0.048957    0.030745   -0.092232
-1.83E-05    0.123605    2.853966
 1.00000    0.048957    0.030745   -0.092232
-1.83E-05    0.237590    2.815970

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.035418   -0.146860    0.129333
 1.04E-05   0.316697   -1.211764
 0.25000    0.035418   -0.146860    0.129333
 1.04E-05   0.156859   -1.030266
 0.50000    0.035418   -0.146860    0.129333
 1.04E-05  -0.002980   -0.848767
 0.75000    0.035418   -0.146860    0.129333
 1.04E-05  -0.162818   -0.667268
 1.00000    0.035418   -0.146860    0.129333
 1.04E-05  -0.322657   -0.485770
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  859

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.013071    0.111066   -0.027594
 3.53E-06  -0.069308   -0.073803
 0.25000    0.013071    0.111066   -0.027594
 3.53E-06  -0.035206   -0.211166
 0.50000    0.013071    0.111066   -0.027594
 3.53E-06  -0.001104   -0.348329
 0.75000    0.013071    0.111066   -0.027594
 3.53E-06   0.032998   -0.485592
 1.00000    0.013071    0.111066   -0.027594
 3.53E-06   0.067100   -0.622855

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.080200   -0.020641    0.003336
-8.73E-07    0.008602    0.013085
 0.25000   -0.080200   -0.020641    0.003336
-8.73E-07    0.004479    0.038595
 0.50000   -0.080200   -0.020641    0.003336
-8.73E-07    0.000356    0.064105
 0.75000   -0.080200   -0.020641    0.003336
-8.73E-07   -0.003768    0.089615
 1.00000   -0.080200   -0.020641    0.003336
-8.73E-07   -0.007891    0.115125

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.046461    0.134795   -0.116555
-1.60E-05   -0.277987    3.357118
 0.25000    0.046461    0.134795   -0.116555
-1.60E-05   -0.133941    3.190530
 0.50000    0.046461    0.134795   -0.116555
-1.60E-05    0.010104    3.023942
 0.75000    0.046461    0.134795   -0.116555
-1.60E-05    0.154150    2.857353
 1.00000    0.046461    0.134795   -0.116555
-1.60E-05    0.298196    2.690765

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.046461   -0.134795    0.116555
 1.60E-05   0.277987   -3.357118
 0.25000   -0.046461   -0.134795    0.116555
 1.60E-05   0.133941   -3.190530
 0.50000   -0.046461   -0.134795    0.116555
 1.60E-05   -0.010104   -3.023942
 0.75000   -0.046461   -0.134795    0.116555
 1.60E-05   -0.154150   -2.857353
 1.00000   -0.046461   -0.134795    0.116555
 1.60E-05   -0.298196   -2.690765

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.048957    0.134795    0.129333
 1.60E-05   0.316697    3.357118
 0.25000    0.048957    0.134795    0.129333
 1.60E-05   0.156859    3.190530
 0.50000    0.048957    0.134795    0.129333
 1.60E-05   0.010104    3.023942
 0.75000    0.048957    0.134795    0.129333
 1.60E-05   0.154150    2.857353
 1.00000    0.048957    0.134795    0.129333
 1.60E-05   0.298196    2.815970

COMB  SETTLE ------------------ MIN

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.080200   -0.146860   -0.116555
-1.83E-05   -0.277987   -3.357118
 0.25000   -0.080200   -0.146860   -0.116555
-1.83E-05   -0.133941   -3.190530
 0.50000   -0.080200   -0.146860   -0.116555
-1.83E-05   -0.010104   -3.023942
 0.75000   -0.080200   -0.146860   -0.116555
-1.83E-05   -0.162818   -2.857353
 1.00000   -0.080200   -0.146860   -0.116555
-1.83E-05   -0.322657   -2.690765
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  860

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      453 ================== LENGTH
=     4.943178

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.010653    0.023582   -0.000352
-5.07E-07   0.000597    0.497225
 0.25000   -0.010653    0.023582   -0.000352
-5.07E-07   0.001032    0.468083
 0.50000   -0.010653    0.023582   -0.000352
-5.07E-07   0.001467    0.438940
 0.75000   -0.010653    0.023582   -0.000352
-5.07E-07   0.001902    0.409798
 1.00000   -0.010653    0.023582   -0.000352
-5.07E-07   0.002336    0.380655

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.006140   -0.109990    0.001117
 2.87E-06  -0.004138   -2.317935
 0.25000   -0.006140   -0.109990    0.001117
 2.87E-06  -0.005518   -2.182009
 0.50000   -0.006140   -0.109990    0.001117
 2.87E-06  -0.006898   -2.046084
 0.75000   -0.006140   -0.109990    0.001117
 2.87E-06  -0.008278   -1.910159
 1.00000   -0.006140   -0.109990    0.001117
 2.87E-06  -0.009658   -1.774233

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.046755    0.227814   -0.113039
-1.45E-05   -0.271760    2.846544
 0.25000    0.046755    0.227814   -0.113039
-1.45E-05   -0.132066    2.565013
 0.50000    0.046755    0.227814   -0.113039
-1.45E-05    0.007627    2.283482
 0.75000    0.046755    0.227814   -0.113039
-1.45E-05    0.147320    2.001952
 1.00000    0.046755    0.227814   -0.113039
-1.45E-05    0.287013    1.720421

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.041499   -0.230522    0.132953
 1.05E-05   0.328660   -0.524858
 0.25000    0.041499   -0.230522    0.132953
 1.05E-05   0.164358   -0.239981
 0.50000    0.041499   -0.230522    0.132953
 1.05E-05   5.62E-05    0.044896
 0.75000    0.041499   -0.230522    0.132953
 1.05E-05   -0.164246   0.329774
 1.00000    0.041499   -0.230522    0.132953
 1.05E-05   -0.328548   0.614651

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.014367    0.109367   -0.022777
 2.17E-06  -0.059251   -0.615274
 0.25000    0.014367    0.109367   -0.022777
 2.17E-06  -0.031104   -0.750529
 0.50000    0.014367    0.109367   -0.022777
 2.17E-06  -0.002956   -0.885584
 0.75000    0.014367    0.109367   -0.022777
 2.17E-06   0.025191   -1.020739
 1.00000    0.014367    0.109367   -0.022777
 2.17E-06   0.053339   -1.155893

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.085828   -0.020251    0.002098
-4.59E-07   0.005891    0.114298
 0.25000   -0.085828   -0.020251    0.002098
-4.59E-07   0.003298    0.139324
 0.50000   -0.085828   -0.020251    0.002098
-4.59E-07   0.000705    0.164349
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                  861

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
 0.75000   -0.085828   -0.020251    0.002098
-4.59E-07   -0.001888    0.189375
 1.00000   -0.085828   -0.020251    0.002098
-4.59E-07   -0.004482    0.214400

LOAD  -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.050469    0.360762   -0.136168
-1.29E-05   -0.330414    2.728495
 0.25000    0.050469    0.360762   -0.136168
-1.29E-05   -0.162138    2.282667
 0.50000    0.050469    0.360762   -0.136168
-1.29E-05    0.006137    1.836839
 0.75000    0.050469    0.360762   -0.136168
-1.29E-05    0.174412    1.391011
 1.00000    0.050469    0.360762   -0.136168
-1.29E-05    0.342688    0.945183

LOAD  -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
 0.00000   -0.050469   -0.360762    0.136168
 1.29E-05   0.330414   -2.728495
 0.25000   -0.050469   -0.360762    0.136168
 1.29E-05   0.162138   -2.282667
 0.50000   -0.050469   -0.360762    0.136168
 1.29E-05   -0.006137   -1.836839
 0.75000   -0.050469   -0.360762    0.136168
 1.29E-05   -0.174412   -1.391011
 1.00000   -0.050469   -0.360762    0.136168
 1.29E-05   -0.342688   -0.945183

COMB  SETTLE ------------------ MAX

REL DIST          P          V2          V3
       T          M2         M3
 0.00000    0.050469    0.360762    0.136168
 1.29E-05   0.330414    2.846544
 0.25000    0.050469    0.360762    0.136168
 1.29E-05   0.164358    2.565013
 0.50000    0.050469    0.360762    0.136168
 1.29E-05   0.007627    2.283482
```

```
0.75000     0.050469     0.360762     0.136168
1.29E-05     0.174412     2.001952
1.00000     0.050469     0.360762     0.136168
1.29E-05     0.342688     1.720421

COMB  SETTLE ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.085828    -0.360762    -0.136168
-1.45E-05    -0.330414    -2.728495
0.25000    -0.085828    -0.360762    -0.136168
-1.45E-05    -0.162138    -2.282667
0.50000    -0.085828    -0.360762    -0.136168
-1.45E-05    -0.006898    -2.046084
0.75000    -0.085828    -0.360762    -0.136168
-1.45E-05    -0.174412    -1.910159
1.00000    -0.085828    -0.360762    -0.136168
-1.45E-05    -0.342688    -1.774233

ELEM      454 ================== LENGTH
=     4.943033

LOAD     -A1 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.007016     0.023617    -0.003337
 1.10E-07    -0.007189     0.381227
0.25000    -0.007016     0.023617    -0.003337
 1.10E-07    -0.003064     0.352042
0.50000    -0.007016     0.023617    -0.003337
 1.10E-07     0.001060     0.322857
0.75000    -0.007016     0.023617    -0.003337
 1.10E-07     0.005184     0.293672
1.00000    -0.007016     0.023617    -0.003337
 1.10E-07     0.009308     0.264487
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                862

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.009199    -0.110082     0.015322
-8.89E-08     0.032881    -1.776789
0.25000    -0.009199    -0.110082     0.015322
-8.89E-08     0.013947    -1.640754
0.50000    -0.009199    -0.110082     0.015322
-8.89E-08    -0.004987    -1.504720
0.75000    -0.009199    -0.110082     0.015322
-8.89E-08    -0.023921    -1.368685
1.00000    -0.009199    -0.110082     0.015322
-8.89E-08    -0.042855    -1.232650

LOAD     -P2 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.044030     0.224338    -0.126759
-1.21E-05    -0.309453     1.756231
0.25000     0.044030     0.224338    -0.126759
-1.21E-05    -0.152810     1.479003
0.50000     0.044030     0.224338    -0.126759
-1.21E-05     0.003834     1.201776
0.75000     0.044030     0.224338    -0.126759
-1.21E-05     0.160478     0.924549
1.00000     0.044030     0.224338    -0.126759
-1.21E-05     0.317122     0.647321

LOAD     -P3 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.045786    -0.222445     0.128351
 1.20E-05     0.320976     0.575655
0.25000     0.045786    -0.222445     0.128351
 1.20E-05     0.162365     0.850543
0.50000     0.045786    -0.222445     0.128351
 1.20E-05     0.003754     1.125431
0.75000     0.045786    -0.222445     0.128351
 1.20E-05    -0.154858     1.400320
1.00000     0.045786    -0.222445     0.128351
 1.20E-05    -0.313469     1.675208

LOAD     -P4 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.016140     0.103688    -0.013666
 9.68E-08    -0.038453    -1.150379
0.25000     0.016140     0.103688    -0.013666
 9.68E-08    -0.021565    -1.278513
0.50000     0.016140     0.103688    -0.013666
 9.68E-08    -0.004677    -1.406646
0.75000     0.016140     0.103688    -0.013666
 9.68E-08     0.012211    -1.534779
1.00000     0.016140     0.103688    -0.013666
 9.68E-08     0.029099    -1.662913

LOAD     -P5 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.089741    -0.019116     8.95E-05
-1.18E-08     0.001238     0.214056
0.25000    -0.089741    -0.019116     8.95E-05
-1.18E-08     0.001127     0.237679
0.50000    -0.089741    -0.019116     8.95E-05
-1.18E-08     0.001016     0.261301
0.75000    -0.089741    -0.019116     8.95E-05
-1.18E-08     0.000906     0.284924
1.00000    -0.089741    -0.019116     8.95E-05
-1.18E-08     0.000795     0.308546

LOAD  -2N+1- ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.053154     0.351643    -0.143763
-1.19E-05    -0.355095     0.987078
0.25000     0.053154     0.351643    -0.143763
-1.19E-05    -0.177439     0.552533
0.50000     0.053154     0.351643    -0.143763
-1.19E-05     0.000217     0.117987
0.75000     0.053154     0.351643    -0.143763
-1.19E-05     0.177873    -0.316559
1.00000     0.053154     0.351643    -0.143763
-1.19E-05     0.355529    -0.751104
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                863

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.053154    -0.351643     0.143763
 1.19E-05     0.355095    -0.987078
0.25000    -0.053154    -0.351643     0.143763
 1.19E-05     0.177439    -0.552533
0.50000    -0.053154    -0.351643     0.143763
 1.19E-05    -0.000217    -0.117987
0.75000    -0.053154    -0.351643     0.143763
 1.19E-05    -0.177873     0.316559
1.00000    -0.053154    -0.351643     0.143763
 1.19E-05    -0.355529     0.751104

COMB  SETTLE ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.053154     0.351643     0.143763
1.20E-05     0.355095     1.756231
0.25000     0.053154     0.351643     0.143763
1.20E-05     0.177439     1.479003
0.50000     0.053154     0.351643     0.143763
1.20E-05     0.003834     1.201776
0.75000     0.053154     0.351643     0.143763
1.20E-05     0.177873     1.400320
1.00000     0.053154     0.351643     0.143763
1.20E-05     0.355529     1.675208

COMB  SETTLE ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.089741    -0.351643    -0.143763
-1.21E-05    -0.355095    -1.776789
0.25000    -0.089741    -0.351643    -0.143763
-1.21E-05    -0.177439    -1.640754
0.50000    -0.089741    -0.351643    -0.143763
-1.21E-05    -0.004987    -1.504720
0.75000    -0.089741    -0.351643    -0.143763
-1.21E-05    -0.177873    -1.534779
1.00000    -0.089741    -0.351643    -0.143763
-1.21E-05    -0.355529    -1.662913

ELEM      455 ================== LENGTH
=     4.943005

LOAD     -A1 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.004394     0.024825    -0.005374
 5.90E-07    -0.012607     0.265809
0.25000    -0.004394     0.024825    -0.005374
 5.90E-07    -0.005967     0.235132
0.50000    -0.004394     0.024825    -0.005374
 5.90E-07     0.000674     0.204454
0.75000    -0.004394     0.024825    -0.005374
 5.90E-07     0.007314     0.173777
1.00000    -0.004394     0.024825    -0.005374
 5.90E-07     0.013955     0.143099

LOAD     -P1 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.010981    -0.115733     0.025026
-2.38E-06     0.056680    -1.238791
0.25000    -0.010981    -0.115733     0.025026
-2.38E-06     0.027753    -1.095773
0.50000    -0.010981    -0.115733     0.025026
-2.38E-06    -0.003173    -0.952756
0.75000    -0.010981    -0.115733     0.025026
-2.38E-06    -0.034100    -0.809738
1.00000    -0.010981    -0.115733     0.025026
-2.38E-06    -0.065026    -0.666720

LOAD     -P2 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.038995     0.232324    -0.131409
-1.04E-05    -0.324592     0.685861
0.25000     0.038995     0.232324    -0.131409
-1.04E-05    -0.162203     0.398766
0.50000     0.038995     0.232324    -0.131409
-1.04E-05     0.000186     0.111672
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                864

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
       T           M2           M3
0.75000     0.038995     0.232324    -0.131409
-1.04E-05     0.162575    -0.175423
1.00000     0.038995     0.232324    -0.131409
-1.04E-05     0.324964    -0.462518

LOAD     -P3 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.050327    -0.226379     0.114738
 1.44E-05     0.291017     1.639011
0.25000     0.050327    -0.226379     0.114738
 1.44E-05     0.149229     1.918758
0.50000     0.050327    -0.226379     0.114738
 1.44E-05     0.007442     2.198506
0.75000     0.050327    -0.226379     0.114738
 1.44E-05    -0.134346     2.478254
1.00000     0.050327    -0.226379     0.114738
 1.44E-05    -0.276133     2.758002

LOAD     -P4 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.018300     0.104057    -0.000312
-2.83E-06    -0.007244    -1.660799
0.25000     0.018300     0.104057    -0.000312
-2.83E-06    -0.006658    -1.789388
0.50000     0.018300     0.104057    -0.000312
-2.83E-06    -0.006472    -1.917977
0.75000     0.018300     0.104057    -0.000312
-2.83E-06    -0.006087    -2.046566
1.00000     0.018300     0.104057    -0.000312
-2.83E-06    -0.005701    -2.175154

LOAD     -P5 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.092247    -0.019094    -0.002669
 5.71E-07    -0.005253     0.308909
0.25000    -0.092247    -0.019094    -0.002669
 5.71E-07    -0.001955     0.356105
0.50000    -0.092247    -0.019094    -0.002669
 5.71E-07     0.001344     0.356100
0.75000    -0.092247    -0.019094    -0.002669
 5.71E-07     0.004643     0.379696
1.00000    -0.092247    -0.019094    -0.002669
 5.71E-07     0.007942     0.403292

LOAD  -2N+1- ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.052901     0.361206    -0.137095
-1.26E-05    -0.344443     0.709129
0.25000     0.052901     0.361206    -0.137095
-1.26E-05    -0.175028    -1.155490
0.50000     0.052901     0.361206    -0.137095
-1.26E-05    -0.005612    -1.601851
0.75000     0.052901     0.361206    -0.137095
-1.26E-05     0.163803    -2.048212
1.00000     0.052901     0.361206    -0.137095
-1.26E-05     0.333218    -2.494573

LOAD  -2N+2- ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.052901    -0.361206     0.137095
 1.26E-05     0.344443     0.709129
0.25000    -0.052901    -0.361206     0.137095
 1.26E-05     0.175028     1.155490
0.50000    -0.052901    -0.361206     0.137095
 1.26E-05     0.005612     1.601851
0.75000    -0.052901    -0.361206     0.137095
 1.26E-05    -0.163803     2.048212
1.00000    -0.052901    -0.361206     0.137095
 1.26E-05    -0.333218     2.494573

COMB  SETTLE ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.052901     0.361206     0.137095
1.44E-05     0.344443     1.639011
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                865

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
       T           M2           M3
0.25000     0.052901     0.361206     0.137095
1.44E-05     0.175028     1.918758
0.50000     0.052901     0.361206     0.137095
1.44E-05     0.005742     2.198506
0.75000     0.052901     0.361206     0.137095
1.44E-05     0.163803     2.478254
1.00000     0.052901     0.361206     0.137095
1.44E-05     0.333218     2.758002

COMB  SETTLE ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.092247    -0.361206    -0.137095
-1.26E-05    -0.344443    -1.660799
0.25000    -0.092247    -0.361206    -0.137095
-1.26E-05    -0.175028    -1.789388
0.50000    -0.092247    -0.361206    -0.137095
-1.26E-05    -0.006472    -1.917977
0.75000    -0.092247    -0.361206    -0.137095
-1.26E-05    -0.163803    -2.048212
1.00000    -0.092247    -0.361206    -0.137095
-1.26E-05    -0.333218    -2.494573

ELEM      456 ================== LENGTH
=     4.943104

LOAD     -A1 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.002518     0.025409    -0.006450
 8.86E-07    -0.015687     0.144880
0.25000    -0.002518     0.025409    -0.006450
 8.86E-07    -0.007717     0.113479
0.50000    -0.002518     0.025409    -0.006450
 8.86E-07     0.000254     0.082079
0.75000    -0.002518     0.025409    -0.006450
 8.86E-07     0.008224     0.050679
1.00000    -0.002518     0.025409    -0.006450
 8.86E-07     0.016195     0.019278

LOAD     -P1 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.011908    -0.118442     0.030171
-3.80E-06     0.073371    -0.675043
0.25000    -0.011908    -0.118442     0.030171
-3.80E-06     0.036086    -0.528676
0.50000    -0.011908    -0.118442     0.030171
-3.80E-06    -0.001200    -0.382308
0.75000    -0.011908    -0.118442     0.030171
-3.80E-06    -0.038485    -0.235940
1.00000    -0.011908    -0.118442     0.030171
-3.80E-06    -0.075770    -0.089573

LOAD     -P2 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.033617     0.151208    -0.127802
-1.02E-05    -0.318801    -0.423918
0.25000     0.033617     0.151208    -0.127802
-1.02E-05    -0.160866    -0.610777
0.50000     0.033617     0.151208    -0.127802
-1.02E-05    -0.002932    -0.797636
0.75000     0.033617     0.151208    -0.127802
-1.02E-05     0.155002    -0.984496
1.00000     0.033617     0.151208    -0.127802
-1.02E-05     0.312937    -1.171355

LOAD     -P3 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.053077    -0.033699     0.094103
 1.80E-05     0.242056     2.727036
0.25000     0.053077    -0.033699     0.094103
 1.80E-05     0.125766     2.768681
0.50000     0.053077    -0.033699     0.094103
 1.80E-05     0.009477     2.810325
0.75000     0.053077    -0.033699     0.094103
 1.80E-05    -0.106813     2.851969
1.00000     0.053077    -0.033699     0.094103
 1.80E-05    -0.223103     2.893613
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                866

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.021289    -0.030396     0.015886
-6.23E-06     0.032234    -2.177515
0.25000     0.021289    -0.030396     0.015886
-6.23E-06     0.012603    -2.139952
0.50000     0.021289    -0.030396     0.015886
-6.23E-06    -0.007028    -2.102389
0.75000     0.021289    -0.030396     0.015886
-6.23E-06    -0.026660    -2.064826
1.00000     0.021289    -0.030396     0.015886
-6.23E-06    -0.046291    -2.027263

LOAD     -P5 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.093556     0.005919    -0.005908
 1.29E-06    -0.013174     0.404559
0.25000    -0.093556     0.005919    -0.005908
 1.29E-06    -0.007572     0.397244
0.50000    -0.093556     0.005919    -0.005908
 1.29E-06     0.001430     0.389929
0.75000    -0.093556     0.005919    -0.005908
 1.29E-06     0.008731     0.382614
1.00000    -0.093556     0.005919    -0.005908
 1.29E-06     0.016033     0.375299

LOAD  -2N+1- ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.052388     0.146221    -0.118366
-1.55E-05    -0.302253    -2.456552
0.25000     0.052388     0.146221    -0.118366
-1.55E-05    -0.155980    -2.637249
0.50000     0.052388     0.146221    -0.118366
-1.55E-05    -0.009706    -2.817946
0.75000     0.052388     0.146221    -0.118366
-1.55E-05     0.136567    -2.998643
1.00000     0.052388     0.146221    -0.118366
-1.55E-05     0.282840    -3.179340

LOAD  -2N+2- ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.052388    -0.146221     0.118366
 1.55E-05     0.302253     2.456552
0.25000    -0.052388    -0.146221     0.118366
 1.55E-05     0.155980     2.637249
0.50000    -0.052388    -0.146221     0.118366
 1.55E-05     0.009706     2.817946
0.75000    -0.052388    -0.146221     0.118366
 1.55E-05    -0.136567     2.998643
1.00000    -0.052388    -0.146221     0.118366
 1.55E-05    -0.282840     3.179340

COMB  SETTLE ------------------- MAX

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.053077     0.151208     0.118366
1.80E-05     0.302253     2.727036
0.25000     0.053077     0.151208     0.118366
1.80E-05     0.155980     2.768681
0.50000     0.053077     0.151208     0.118366
1.80E-05     0.009706     2.817946
0.75000     0.053077     0.151208     0.118366
1.80E-05     0.155002     2.998643
1.00000     0.053077     0.151208     0.118366
1.80E-05     0.312937     3.179340

COMB  SETTLE ------------------- MIN

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.093556    -0.146221    -0.127802
-1.55E-05    -0.318801    -2.456552
0.25000    -0.093556    -0.146221    -0.127802
-1.55E-05    -0.160866    -2.637249
0.50000    -0.093556    -0.146221    -0.127802
-1.55E-05    -0.009706    -2.817946
0.75000    -0.093556    -0.146221    -0.127802
-1.55E-05    -0.136567    -2.998643
1.00000    -0.093556    -0.146221    -0.127802
-1.55E-05    -0.282840    -3.179340
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                867

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      457 ================== LENGTH
=     4.942317

LOAD     -A1 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.001177     0.017351    -0.006652
 9.51E-07    -0.016505     0.021242
0.25000    -0.001177     0.017351    -0.006652
 9.51E-07    -0.008286    -0.001196
0.50000    -0.001177     0.017351    -0.006652
 9.51E-07    -6.69E-05    -0.021635
0.75000    -0.001177     0.017351    -0.006652
 9.51E-07     0.008152    -0.043073
1.00000    -0.001177     0.017351    -0.006652
 9.51E-07     0.016371    -0.064511

LOAD     -P1 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.012309    -0.080884     0.031158
-4.14E-06     0.077307    -0.098772
0.25000    -0.012309    -0.080884     0.031158
-4.14E-06     0.038809     0.001167
0.50000    -0.012309    -0.080884     0.031158
-4.14E-06     0.000310     0.101106
0.75000    -0.012309    -0.080884     0.031158
-4.14E-06    -0.038188     0.201045
1.00000    -0.012309    -0.080884     0.031158
-4.14E-06    -0.076687     0.300984

LOAD     -P2 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.028146     0.163606    -0.117759
-9.96E-06    -0.296137    -1.134901
0.25000     0.028146     0.163606    -0.117759
-9.96E-06    -0.150636    -1.337050
0.50000     0.028146     0.163606    -0.117759
-9.96E-06    -0.005136    -1.539198
0.75000     0.028146     0.163606    -0.117759
-9.96E-06     0.140365    -1.741347
1.00000     0.028146     0.163606    -0.117759
-9.96E-06     0.285866    -1.943495

LOAD     -P3 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.054732    -0.158844     0.069209
 1.92E-05     0.181917     2.869562
0.25000     0.054732    -0.158844     0.069209
 1.92E-05     0.096404     3.065826
0.50000     0.054732    -0.158844     0.069209
 1.92E-05     0.010891     3.262090
0.75000     0.054732    -0.158844     0.069209
 1.92E-05    -0.074623     3.458354
1.00000     0.054732    -0.158844     0.069209
 1.92E-05    -0.160136     3.654619

LOAD     -P4 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.024789     0.071693     0.033382
-7.83E-06     0.074988    -2.034698
0.25000     0.024789     0.071693     0.033382
-7.83E-06     0.033743    -2.123281
0.50000     0.024789     0.071693     0.033382
-7.83E-06    -0.007503    -2.211863
0.75000     0.024789     0.071693     0.033382
-7.83E-06    -0.048749    -2.300445
1.00000     0.024789     0.071693     0.033382
-7.83E-06    -0.089995    -2.389027

LOAD     -P5 ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.094181    -0.012922    -0.009338
 1.78E-06    -0.021571     0.377567
0.25000    -0.094181    -0.012922    -0.009338
 1.78E-06    -0.010033     0.393393
0.50000    -0.094181    -0.012922    -0.009338
 1.78E-06     0.001505     0.409499
Program  SAP2000  Nonlinear  Version  7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                868

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST            P            V2           V3
       T           M2           M3
0.75000    -0.094181    -0.012922    -0.009338
 1.78E-06     0.013043     0.425465
1.00000    -0.094181    -0.012922    -0.009338
 1.78E-06     0.024581     0.441431

LOAD  -2N+1- ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000     0.051758     0.252650    -0.091029
-1.68E-05    -0.237653    -3.148357
0.25000     0.051758     0.252650    -0.091029
-1.68E-05    -0.125179    -3.460527
0.50000     0.051758     0.252650    -0.091029
-1.68E-05    -0.012706    -3.772696
0.75000     0.051758     0.252650    -0.091029
-1.68E-05     0.099768    -4.084865
1.00000     0.051758     0.252650    -0.091029
-1.68E-05     0.212242    -4.397034

LOAD  -2N+2- ------------------

REL DIST            P            V2           V3
       T           M2           M3
0.00000    -0.051758    -0.252650     0.091029
 1.68E-05     0.237653     3.148357
0.25000    -0.051758    -0.252650     0.091029
 1.68E-05     0.125179     3.460527
0.50000    -0.051758    -0.252650     0.091029
 1.68E-05     0.012706     3.772696
0.75000    -0.051758    -0.252650     0.091029
 1.68E-05    -0.099768     4.084865
1.00000    -0.051758    -0.252650     0.091029
```

```
 1.68E-05   -0.212242    4.397034

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.054732    0.252650    0.091029
1.92E-05    0.237653    3.148357
0.25000    0.054732    0.252650    0.091029
1.92E-05    0.125179    3.460527
0.50000    0.054732    0.252650    0.091029
1.92E-05    0.012706    3.772696
0.75000    0.054732    0.252650    0.091029
1.92E-05    0.140365    4.084865
1.00000    0.054732    0.252650    0.091029
1.92E-05    0.285866    4.397034

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.094181   -0.252650   -0.117759
-1.68E-05   -0.296137   -3.148357
0.25000   -0.094181   -0.252650   -0.117759
-1.68E-05   -0.150636   -3.460527
0.50000   -0.094181   -0.252650   -0.117759
-1.68E-05   -0.012706   -3.772696
0.75000   -0.094181   -0.252650   -0.117759
-1.68E-05   -0.099768   -4.084865
1.00000   -0.094181   -0.252650   -0.117759
-1.68E-05   -0.212242   -4.397034

ELEM       458 ================== LENGTH
=     4.943664

LOAD     -A1 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.000304    0.014097   -0.005950
 8.87E-07   -0.015211   -0.062613
0.25000   -0.000304    0.014097   -0.005950
 8.87E-07   -0.007857   -0.080036
0.50000   -0.000304    0.014097   -0.005950
 8.87E-07   -0.000503   -0.097459
0.75000   -0.000304    0.014097   -0.005950
 8.87E-07    0.006851   -0.114882
1.00000   -0.000304    0.014097   -0.005950
 8.87E-07    0.014205   -0.132305
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          869

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.011980   -0.065775    0.027849
-3.90E-06    0.071198    0.292099
0.25000   -0.011980   -0.065775    0.027849
-3.90E-06    0.036778    0.373392
0.50000   -0.011980   -0.065775    0.027849
-3.90E-06    0.002359    0.454684
0.75000   -0.011980   -0.065775    0.027849
-3.90E-06   -0.032061    0.535977
1.00000   -0.011980   -0.065775    0.027849
-3.90E-06   -0.066480    0.617270

LOAD     -P2 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.020955    0.097961   -0.098658
-8.38E-06   -0.254110   -1.910935
0.25000    0.020955    0.097961   -0.098658
-8.38E-06   -0.132177   -2.032007
0.50000    0.020955    0.097961   -0.098658
-8.38E-06   -0.010245   -2.153079
0.75000    0.020955    0.097961   -0.098658
-8.38E-06    0.111688   -2.274151
1.00000    0.020955    0.097961   -0.098658
-8.38E-06    0.233621   -2.395223

LOAD     -P3 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.057558   -0.047426    0.039017
 1.67E-05    0.110076    3.638094
0.25000    0.057558   -0.047426    0.039017
 1.67E-05    0.061854    3.696708
0.50000    0.057558   -0.047426    0.039017
 1.67E-05    0.013633    3.755323
0.75000    0.057558   -0.047426    0.039017
 1.67E-05   -0.034589    3.813937
1.00000    0.057558   -0.047426    0.039017
 1.67E-05   -0.082810    3.872551

LOAD     -P4 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.028501    0.000767    0.050212
-7.54E-06    0.117683   -2.401320
0.25000    0.028501    0.000767    0.050212
-7.54E-06    0.055625   -2.402268
0.50000    0.028501    0.000767    0.050212
-7.54E-06   -0.006433   -2.403215
0.75000    0.028501    0.000767    0.050212
-7.54E-06   -0.068491   -2.404163
1.00000    0.028501    0.000767    0.050212
-7.54E-06   -0.130549   -2.405110

LOAD     -P5 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.094729    0.000376   -0.012470
 2.23E-06   -0.029636    0.444675
0.25000   -0.094729    0.000376   -0.012470
 2.23E-06   -0.014224    0.444211
0.50000   -0.094729    0.000376   -0.012470
 2.23E-06    0.001189    0.443747
0.75000   -0.094729    0.000376   -0.012470
 2.23E-06    0.016601    0.443282
1.00000   -0.094729    0.000376   -0.012470
 2.23E-06    0.032014    0.442818

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.049151    0.112825   -0.054396
-1.50E-05   -0.151637   -4.374869
0.25000    0.049151    0.112825   -0.054396
-1.50E-05   -0.084409   -4.514311
0.50000    0.049151    0.112825   -0.054396
-1.50E-05   -0.017180   -4.653754
0.75000    0.049151    0.112825   -0.054396
-1.50E-05    0.050049   -4.793196
1.00000    0.049151    0.112825   -0.054396
-1.50E-05    0.117277   -4.932639
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          870

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.049151   -0.112825    0.054396
 1.50E-05    0.151637    4.374869
0.25000   -0.049151   -0.112825    0.054396
 1.50E-05    0.084409    4.514311
0.50000   -0.049151   -0.112825    0.054396
 1.50E-05    0.017180    4.653754
0.75000   -0.049151   -0.112825    0.054396
 1.50E-05   -0.050049    4.793196
1.00000   -0.049151   -0.112825    0.054396
 1.50E-05   -0.117277    4.932639

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.057558    0.112825    0.054396
1.67E-05    0.151637    4.374869
0.25000    0.057558    0.112825    0.054396
1.67E-05    0.084409    4.514311
0.50000    0.057558    0.112825    0.054396
1.67E-05    0.017180    4.653754
0.75000    0.057558    0.112825    0.054396
1.67E-05    0.111688    4.793196
1.00000    0.057558    0.112825    0.054396
1.67E-05    0.233621    4.932639

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.094729   -0.112825   -0.098658
-1.50E-05   -0.254110   -4.374869
0.25000   -0.094729   -0.112825   -0.098658
-1.50E-05   -0.132177   -4.514311
0.50000   -0.094729   -0.112825   -0.098658
-1.50E-05   -0.017180   -4.653754
0.75000   -0.094729   -0.112825   -0.098658
-1.50E-05    0.069491   -4.793196
1.00000   -0.094729   -0.112825   -0.098658
-1.50E-05   -0.130549   -4.932639

ELEM       459 ================== LENGTH
=     3.459749

LOAD     -A1 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.000260    0.008698   -0.009772
 9.13E-07   -0.017561   -0.130403
0.25000    0.000260    0.008698   -0.009772
 9.13E-07   -0.009199   -0.137926
0.50000    0.000260    0.008698   -0.009772
 9.13E-07   -0.000657   -0.145449
0.75000    0.000260    0.008698   -0.009772
 9.13E-07    0.007795   -0.152972
1.00000    0.000260    0.008698   -0.009772
 9.13E-07    0.016247   -0.160495

LOAD     -P1 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.011360   -0.040375    0.045612
-4.03E-06    0.081984    0.608375
0.25000   -0.011360   -0.040375    0.045612
-4.03E-06    0.042533    0.643296
0.50000   -0.011360   -0.040375    0.045612
-4.03E-06    0.003081    0.678218
0.75000   -0.011360   -0.040375    0.045612
-4.03E-06   -0.036371    0.713140
1.00000   -0.011360   -0.040375    0.045612
-4.03E-06   -0.075822    0.748061

LOAD     -P2 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.013536    0.042891   -0.155891
-4.81E-06   -0.280698   -2.364524
0.25000    0.013536    0.042891   -0.155891
-4.81E-06   -0.145862   -2.401622
0.50000    0.013536    0.042891   -0.155891
-4.81E-06   -0.011026   -2.438720
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          871

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
          T          M2          M3
0.75000    0.013536    0.042891   -0.155891
-4.81E-06    0.123810   -2.475818
1.00000    0.013536    0.042891   -0.155891
-4.81E-06    0.258646   -2.512916

LOAD     -P3 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.060776    0.017442    0.023380
9.66E-06    0.052645    3.864737
0.25000    0.060776    0.017442    0.023380
9.66E-06    0.032423    3.849651
0.50000    0.060776    0.017442    0.023380
9.66E-06    0.012200    3.834565
0.75000    0.060776    0.017442    0.023380
9.66E-06   -0.008022    3.819479
1.00000    0.060776    0.017442    0.023380
9.66E-06   -0.028244    3.804393

LOAD     -P4 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.032291   -0.035644    0.126181
-4.30E-06    0.213931   -2.425951
0.25000    0.032291   -0.035644    0.126181
-4.30E-06    0.104792   -2.395121
0.50000    0.032291   -0.035644    0.126181
-4.30E-06   -0.004347   -2.364292
0.75000    0.032291   -0.035644    0.126181
-4.30E-06   -0.113486   -2.333462
1.00000    0.032291   -0.035644    0.126181
-4.30E-06   -0.222624   -2.302633

LOAD     -P5 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.095503    0.006988   -0.029510
 2.56E-06   -0.050301    0.447766
0.25000   -0.095503    0.006988   -0.029510
 2.56E-06   -0.024776    0.441722
0.50000   -0.095503    0.006988   -0.029510
 2.56E-06    0.000748    0.435678
0.75000   -0.095503    0.006988   -0.029510
 2.56E-06    0.026273    0.429634
1.00000   -0.095503    0.006988   -0.029510
 2.56E-06    0.051797    0.423590

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.046087   -0.015945    0.039482
-8.19E-06   -0.084328   -4.920878
0.25000    0.046087   -0.015945    0.039482
-8.19E-06   -0.050179   -4.934669
0.50000    0.046087   -0.015945    0.039482
-8.19E-06   -0.016030   -4.948460
0.75000    0.046087   -0.015945    0.039482
-8.19E-06    0.018120   -4.962252
1.00000    0.046087   -0.015945    0.039482
-8.19E-06    0.052269   -4.976043

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.046087   -0.015945    0.039482
 8.19E-06    0.084328    4.920878
0.25000   -0.046087   -0.015945    0.039482
 8.19E-06    0.050179    4.934669
0.50000   -0.046087   -0.015945    0.039482
 8.19E-06    0.016030    4.948460
0.75000   -0.046087   -0.015945    0.039482
 8.19E-06   -0.018120    4.962252
1.00000   -0.046087   -0.015945    0.039482
 8.19E-06   -0.052269    4.976043

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.060776    0.042891    0.126181
9.66E-06    0.213931    4.920878
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          872

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
          T          M2          M3
0.25000    0.060776    0.042891    0.126181
9.66E-06    0.104792    4.934669
0.50000    0.060776    0.042891    0.126181
9.66E-06    0.016030    4.948460
0.75000    0.060776    0.042891    0.126181
9.66E-06    0.123810    4.962252
1.00000    0.060776    0.042891    0.126181
9.66E-06    0.258646    4.976043

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.095503   -0.040375   -0.155891
-8.19E-06   -0.280698   -4.920878
0.25000   -0.095503   -0.040375   -0.155891
-8.19E-06   -0.145862   -4.934669
0.50000   -0.095503   -0.040375   -0.155891
-8.19E-06   -0.011026   -4.948460
0.75000   -0.095503   -0.040375   -0.155891
-8.19E-06   -0.113486   -4.962252
1.00000   -0.095503   -0.040375   -0.155891
-8.19E-06   -0.222624   -4.976043

ELEM       460 ================== LENGTH
=     3.460020

LOAD     -A1 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.000756    0.002338   -0.008149
 1.02E-06   -0.014393   -0.158657
0.25000    0.000756    0.002338   -0.008149
 1.02E-06   -0.007344   -0.160679
0.50000    0.000756    0.002338   -0.008149
 1.02E-06   -0.000296   -0.162702
0.75000    0.000756    0.002338   -0.008149
 1.02E-06    0.006753   -0.164724
1.00000    0.000756    0.002338   -0.008149
 1.02E-06    0.013801   -0.166747

LOAD     -P1 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.011138   -0.011046    0.037855
-4.67E-06    0.066890    0.739501
0.25000   -0.011138   -0.011046    0.037855
-4.67E-06    0.034146    0.749056
0.50000   -0.011138   -0.011046    0.037855
-4.67E-06    0.001401    0.758611
0.75000   -0.011138   -0.011046    0.037855
-4.67E-06   -0.031344    0.768166
1.00000   -0.011138   -0.011046    0.037855
-4.67E-06   -0.064089    0.777721

LOAD     -P2 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.009146    0.038942   -0.127254
 5.79E-06   -0.225058   -2.483902
0.25000    0.009146    0.038942   -0.127254
 5.79E-06   -0.114983   -2.517587
0.50000    0.009146    0.038942   -0.127254
 5.79E-06   -0.004908   -2.551272
0.75000    0.009146    0.038942   -0.127254
 5.79E-06    0.105167   -2.584957
1.00000    0.009146    0.038942   -0.127254
 5.79E-06    0.215242   -2.618642

LOAD     -P3 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.060596   -0.020553   -0.020530
-9.95E-06   -0.023380    3.804101
0.25000    0.060596   -0.020553   -0.020530
-9.95E-06    0.006621    3.821880
0.50000    0.060596   -0.020553   -0.020530
-9.95E-06    0.012138    3.839659
0.75000    0.060596   -0.020553   -0.020530
-9.95E-06    0.029896    3.857438
1.00000    0.060596   -0.020553   -0.020530
-9.95E-06    0.047655    3.875216
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          873

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.037461   -0.032847    0.152404
 6.08E-06    0.253255   -2.331178
0.25000    0.037461   -0.032847    0.152404
 6.08E-06    0.121425   -2.302765
0.50000    0.037461   -0.032847    0.152404
 6.08E-06   -0.010406   -2.274352
0.75000    0.037461   -0.032847    0.152404
 6.08E-06   -0.142236   -2.245939
1.00000    0.037461   -0.032847    0.152404
 6.08E-06   -0.274066   -2.217526

LOAD     -P5 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.096821    0.023167   -0.034326
 1.73E-06   -0.057314    0.430134
0.25000   -0.096821    0.023167   -0.034326
 1.73E-06   -0.027621    0.410095
0.50000   -0.096821    0.023167   -0.034326
 1.73E-06    0.001971    0.389856
0.75000   -0.096821    0.023167   -0.034326
 1.73E-06    0.031764    0.370017
1.00000   -0.096821    0.023167   -0.034326
 1.73E-06    0.061456    0.349978

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.047363    0.008433    0.017002
 1.29E-05    0.013804   -4.973736
0.25000    0.047363    0.008433    0.017002
 1.29E-05   -0.000903   -4.981031
0.50000    0.047363    0.008433    0.017002
 1.29E-05   -0.015610   -4.988326
0.75000    0.047363    0.008433    0.017002
 1.29E-05   -0.030316   -4.995621
1.00000    0.047363    0.008433    0.017002
 1.29E-05   -0.045023   -5.002915

LOAD   -2N+2- ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.047363   -0.008433   -0.017002
-1.29E-05   -0.013804    4.973736
0.25000   -0.047363   -0.008433   -0.017002
-1.29E-05    0.000903    4.981031
0.50000   -0.047363   -0.008433   -0.017002
-1.29E-05    0.015610    4.988326
0.75000   -0.047363   -0.008433   -0.017002
-1.29E-05    0.030316    4.995621
1.00000   -0.047363   -0.008433   -0.017002
-1.29E-05    0.045023    5.002915

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.060596    0.038942    0.152404
1.29E-05    0.253255    4.973736
0.25000    0.060596    0.038942    0.152404
1.29E-05    0.121425    4.981031
0.50000    0.060596    0.038942    0.152404
1.29E-05    0.015610    4.988326
0.75000    0.060596    0.038942    0.152404
1.29E-05    0.105167    4.995621
1.00000    0.060596    0.038942    0.152404
1.29E-05    0.215242    5.002915

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.096821   -0.032847   -0.127254
-1.29E-05   -0.225058   -4.973736
0.25000   -0.096821   -0.032847   -0.127254
-1.29E-05   -0.114983   -4.981031
0.50000   -0.096821   -0.032847   -0.127254
-1.29E-05   -0.015610   -4.988326
0.75000   -0.096821   -0.032847   -0.127254
-1.29E-05   -0.142236   -4.995621
1.00000   -0.096821   -0.032847   -0.127254
-1.29E-05   -0.274066   -5.002915
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          874

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       461 ================== LENGTH
=     4.942983

LOAD     -A1 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.001161    0.000188   -0.003251
 8.23E-07   -0.008467   -0.165411
0.25000    0.001161    0.000188   -0.003251
 8.23E-07   -0.004450   -0.165643
0.50000    0.001161    0.000188   -0.003251
 8.23E-07   -0.000433   -0.165875
0.75000    0.001161    0.000188   -0.003251
 8.23E-07    0.003584   -0.166107
1.00000    0.001161    0.000188   -0.003251
 8.23E-07    0.007601   -0.166339

LOAD     -P1 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.011069   -0.000800    0.014968
-3.80E-06    0.039038    0.771535
0.25000   -0.011069   -0.000800    0.014968
-3.80E-06    0.020542    0.772524
0.50000   -0.011069   -0.000800    0.014968
-3.80E-06    0.002046    0.773513
0.75000   -0.011069   -0.000800    0.014968
-3.80E-06   -0.016451    0.774502
1.00000   -0.011069   -0.000800    0.014968
-3.80E-06   -0.034947    0.775491

LOAD     -P2 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.006714    0.000225   -0.049325
 8.81E-06   -0.129032   -2.597990
0.25000    0.006714    0.000225   -0.049325
 8.81E-06   -0.068078   -2.598269
0.50000    0.006714    0.000225   -0.049325
 8.81E-06   -0.007125   -2.598547
0.75000    0.006714    0.000225   -0.049325
 8.81E-06    0.053828   -2.598826
1.00000    0.006714    0.000225   -0.049325
 8.81E-06    0.114781   -2.599105

LOAD     -P3 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.057453    0.043419   -0.037528
-1.72E-05   -0.079124    3.882827
0.25000    0.057453    0.043419   -0.037528
-1.72E-05   -0.032750    3.829172
0.50000    0.057453    0.043419   -0.037528
-1.72E-05    0.013625    3.775517
0.75000    0.057453    0.043419   -0.037528
-1.72E-05    0.060000    3.721862
1.00000    0.057453    0.043419   -0.037528
-1.72E-05    0.106375    3.668207

LOAD     -P4 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.044602   -0.080972    0.095650
 9.81E-06    0.226666   -2.247572
0.25000    0.044602   -0.080972    0.095650
 9.81E-06    0.108467   -2.147511
0.50000    0.044602   -0.080972    0.095650
 9.81E-06   -0.009731   -2.047449
0.75000    0.044602   -0.080972    0.095650
 9.81E-06   -0.127930   -1.947388
1.00000    0.044602   -0.080972    0.095650
 9.81E-06   -0.246129   -1.847327

LOAD     -P5 ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000   -0.098861    0.037940   -0.020514
 1.51E-06   -0.049081    0.356610
0.25000   -0.098861    0.037940   -0.020514
 1.51E-06   -0.023731    0.309726
0.50000   -0.098861    0.037940   -0.020514
 1.51E-06    0.001619    0.262841
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11~S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                          875

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
          T          M2          M3
0.75000   -0.098861    0.037940   -0.020514
 1.51E-06    0.026968    0.215957
1.00000   -0.098861    0.037940   -0.020514
 1.51E-06    0.052318    0.169072

LOAD   -2N+1- ------------------

REL DIST          P           V2          V3
          T          M2          M3
0.00000    0.052478   -0.080559    0.043074
 1.94E-05    0.089167   -5.010973
0.25000    0.052478   -0.080559    0.043074
 1.94E-05    0.035939   -4.911422
0.50000    0.052478   -0.080559    0.043074
 1.94E-05   -0.017289   -4.811872
0.75000    0.052478   -0.080559    0.043074
 1.94E-05   -0.070518   -4.712321
1.00000    0.052478   -0.080559    0.043074
 1.94E-05   -0.123746   -4.612770

LOAD   -2N+2- ------------------
```

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.94E-05	-0.052478	-0.088167	0.080559	-5.010973	-0.043074
0.25000	-1.94E-05	-0.052478	-0.035939	0.080559	4.911422	-0.043074
0.50000	-1.94E-05	-0.052478	0.017289	0.080559	4.811872	-0.043074
0.75000	-1.94E-05	-0.052478	0.070518	0.080559	4.712321	-0.043074
1.00000	-1.94E-05	-0.052478	0.123746	0.080559	4.612770	-0.043074

COMB SETTLE ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.94E-05	0.057453	0.226666	0.080559	5.010973	0.095650
0.25000	1.94E-05	0.057453	0.108467	0.080559	4.911422	0.095650
0.50000	1.94E-05	0.057453	0.017289	0.080559	4.811872	0.095650
0.75000	1.94E-05	0.057453	0.070518	0.080559	4.712321	0.095650
1.00000	1.94E-05	0.057453	0.123746	0.080559	4.612770	0.095650

COMB SETTLE ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.94E-05	-0.098861	-0.129032	-0.080972	-5.010973	-0.049325
0.25000	-1.94E-05	-0.098861	-0.068078	-0.080972	-4.911422	-0.049325
0.50000	-1.94E-05	-0.098861	-0.017289	-0.080972	-4.811872	-0.049325
0.75000	-1.94E-05	-0.098861	-0.127930	-0.080972	-4.712321	-0.049325
1.00000	-1.94E-05	-0.098861	-0.246129	-0.080972	-4.612770	-0.049325

ELEM 462 ========== LENGTH = 4.943754

LOAD -A1 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	5.76E-07	0.001419	-0.005841	-0.004819	-0.165532	-0.002160
0.25000	5.76E-07	0.001419	-0.003172	-0.004819	-0.159576	-0.002160
0.50000	5.76E-07	0.001419	-0.000503	-0.004819	-0.153619	-0.002160
0.75000	5.76E-07	0.001419	0.002166	-0.004819	-0.147663	-0.002160
1.00000	5.76E-07	0.001419	0.004836	-0.004819	-0.141707	-0.002160

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-2.68E-06	-0.010803	0.026460	0.022493	0.771804	0.009748
0.25000	-2.68E-06	-0.010803	0.014412	0.022493	0.744004	0.009748
0.50000	-2.68E-06	-0.010803	0.002363	0.022493	0.716204	0.009748
0.75000	-2.68E-06	-0.010803	-0.009685	0.022493	0.688403	0.009748
1.00000	-2.68E-06	-0.010803	-0.021733	0.022493	0.660603	0.009748

LOAD -P2 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	8.63E-06	0.003401	-0.084169	-0.076258	-2.587159	-0.030765
0.25000	8.63E-06	0.003401	-0.046145	-0.076258	-2.492909	-0.030765
0.50000	8.63E-06	0.003401	-0.008122	-0.076258	-2.398660	-0.030765
0.75000	8.63E-06	0.003401	0.029902	-0.076258	-2.304410	-0.030765
1.00000	8.63E-06	0.003401	0.067925	-0.076258	-2.210160	-0.030765

LOAD -P3 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.96E-05	0.054862	0.183961	0.154830	3.683961	-0.067648
0.25000	-1.96E-05	0.054862	-0.072625	0.154830	3.492601	-0.067648
0.50000	-1.96E-05	0.054862	0.010984	0.154830	3.301241	-0.067648
0.75000	-1.96E-05	0.054862	0.094592	0.154830	3.109881	-0.067648
1.00000	-1.96E-05	0.054862	0.178201	0.154830	2.918521	-0.067648

LOAD -P4 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.15E-05	0.052489	0.275760	-0.142807	-1.878646	0.113593
0.25000	1.15E-05	0.052489	0.135366	-0.142807	-1.702146	0.113593
0.50000	1.15E-05	0.052489	-0.005028	-0.142807	-1.525645	0.113593
0.75000	1.15E-05	0.052489	-0.145422	-0.142807	-1.349144	0.113593
1.00000	1.15E-05	0.052489	-0.285815	-0.142807	-1.172644	0.113593

LOAD -P5 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.50E-06	-0.101368	-0.055977	0.046561	0.175572	-0.022769
0.25000	1.50E-06	-0.101368	-0.027836	0.046561	0.118025	-0.022769
0.50000	1.50E-06	-0.101368	0.000305	0.046561	0.060479	-0.022769
0.75000	1.50E-06	-0.101368	0.028446	0.046561	0.002933	-0.022769
1.00000	1.50E-06	-0.101368	0.056587	0.046561	-0.054614	-0.022769

LOAD -2N+1- ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	2.07E-05	0.057309	0.185750	-0.223884	-4.631337	0.080668
0.25000	2.07E-05	0.057309	0.086049	-0.223884	-4.354631	0.080668
0.50000	2.07E-05	0.057309	-0.013652	-0.223884	-4.077924	0.080668
0.75000	2.07E-05	0.057309	-0.113353	-0.223884	-3.801217	0.080668
1.00000	2.07E-05	0.057309	-0.213055	-0.223884	-3.524511	0.080668

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-2.07E-05	-0.057309	-0.185750	0.223884	4.631337	-0.080668
0.25000	-2.07E-05	-0.057309	-0.086049	0.223884	4.354631	-0.080668
0.50000	-2.07E-05	-0.057309	0.013652	0.223884	4.077924	-0.080668
0.75000	-2.07E-05	-0.057309	0.113353	0.223884	3.801217	-0.080668
1.00000	-2.07E-05	-0.057309	0.213055	0.223884	3.524511	-0.080668

COMB SETTLE ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	2.07E-05	0.057309	0.275760	0.223884	4.631337	0.113593
0.25000	2.07E-05	0.057309	0.135366	0.223884	4.354631	0.113593
0.50000	2.07E-05	0.057309	0.013652	0.223884	4.077924	0.113593
0.75000	2.07E-05	0.057309	0.113353	0.223884	3.801217	0.113593
1.00000	2.07E-05	0.057309	0.213055	0.223884	3.524511	0.113593

COMB SETTLE ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-2.07E-05	-0.101368	-0.185750	-0.223884	-4.631337	-0.080668
0.25000	-2.07E-05	-0.101368	-0.086049	-0.223884	-4.354631	-0.080668
0.50000	-2.07E-05	-0.101368	-0.013652	-0.223884	-4.077924	-0.080668
0.75000	-2.07E-05	-0.101368	-0.113353	-0.223884	-3.801217	-0.080668
1.00000	-2.07E-05	-0.101368	-0.213055	-0.223884	-3.524511	-0.080668

ELEM 463 ========== LENGTH = 4.942653

LOAD -A1 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	3.52E-07	0.001636	-0.003002	0.002287	-0.141242	-0.001023
0.25000	3.52E-07	0.001636	-0.001738	0.002287	-0.144067	-0.001023
0.50000	3.52E-07	0.001636	-0.000474	0.002287	-0.146893	-0.001023
0.75000	3.52E-07	0.001636	0.000789	0.002287	-0.149719	-0.001023
1.00000	3.52E-07	0.001636	0.002052	0.002287	-0.152545	-0.001023

LOAD -P1 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.66E-06	-0.010678	0.012951	-0.010625	0.658547	0.004339
0.25000	-1.66E-06	-0.010678	0.002228	-0.010625	0.671676	0.004339
0.50000	-1.66E-06	-0.010678	-0.008495	-0.010625	0.684805	0.004339
0.75000	-1.66E-06	-0.010678	-0.019218	-0.010625	0.697933	0.004339
1.00000	-1.66E-06	-0.010678	-0.029941	-0.010625	0.711062	0.004339

LOAD -P2 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	6.84E-06	0.000118	-0.036733	0.034848	-2.204040	-0.011772
0.25000	6.84E-06	0.000118	-0.022187	0.034848	-2.247101	-0.011772
0.50000	6.84E-06	0.000118	-0.007641	0.034848	-2.290162	-0.011772

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	T	P	M2	V2	M3	V3
0.75000	6.84E-06	0.000118	0.006904	0.034848	-2.333222	-0.011772
1.00000	6.84E-06	0.000118	0.021450	0.034848	-2.376283	-0.011772

LOAD -P3 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.86E-05	0.053845	0.219550	0.025680	2.942655	-0.092734
0.25000	-1.86E-05	0.053845	0.057255	0.025680	2.826305	-0.092734
0.50000	-1.86E-05	0.053845	-0.104961	0.025680	2.910924	-0.092734
0.75000	-1.86E-05	0.053845	0.009627	0.025680	2.879192	-0.092734
1.00000	-1.86E-05	0.053845	0.124215	0.025680	2.847460	-0.092734

LOAD -P4 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.18E-05	0.058655	0.302291	-0.120085	-1.208060	0.123611
0.25000	1.18E-05	0.058655	0.149550	-0.120085	-1.059675	0.123611
0.50000	1.18E-05	0.058655	-0.003191	-0.120085	-0.911291	0.123611
0.75000	1.18E-05	0.058655	-0.155933	-0.120085	-0.762906	0.123611
1.00000	1.18E-05	0.058655	-0.308674	-0.120085	-0.614522	0.123611

LOAD -P5 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.26E-06	-0.103575	-0.055957	0.067895	-0.047861	-0.022421
0.25000	1.26E-06	-0.103575	-0.028252	0.067895	-0.131756	-0.022421
0.50000	1.26E-06	-0.103575	-0.000547	0.067895	-0.215651	-0.022421
0.75000	1.26E-06	-0.103575	0.027158	0.067895	-0.299546	-0.022421
1.00000	1.26E-06	-0.103575	0.054863	0.067895	-0.383442	-0.022421

LOAD -2N+1- ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.90E-05	0.060408	0.262556	-0.082950	-3.553342	0.110816
0.25000	1.90E-05	0.060408	0.125624	-0.082950	-3.450843	0.110816
0.50000	1.90E-05	0.060408	-0.011307	-0.082950	-3.348345	0.110816
0.75000	1.90E-05	0.060408	-0.148239	-0.082950	-3.245847	0.110816
1.00000	1.90E-05	0.060408	-0.285171	-0.082950	-3.143349	0.110816

LOAD -2N+2- ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.90E-05	-0.060408	-0.262556	0.082950	3.553342	-0.110816
0.25000	-1.90E-05	-0.060408	-0.125624	0.082950	3.450843	-0.110816
0.50000	-1.90E-05	-0.060408	-0.011307	0.082950	3.348345	-0.110816
0.75000	-1.90E-05	-0.060408	0.148239	0.082950	3.245847	-0.110816
1.00000	-1.90E-05	-0.060408	0.285171	0.082950	3.143349	-0.110816

COMB SETTLE ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.90E-05	0.060408	0.302291	0.082950	3.553342	0.123611

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	T	P	M2	V2	M3	V3
0.25000	1.90E-05	0.060408	0.149550	0.082950	3.450843	0.123611
0.50000	1.90E-05	0.060408	0.011307	0.082950	3.348345	0.123611
0.75000	1.90E-05	0.060408	0.148239	0.082950	3.245847	0.123611
1.00000	1.90E-05	0.060408	0.285171	0.082950	3.143349	0.123611

COMB SETTLE ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.90E-05	-0.103575	-0.262556	-0.120085	-3.553342	-0.110816
0.25000	-1.90E-05	-0.103575	-0.125624	-0.120085	-3.450843	-0.110816
0.50000	-1.90E-05	-0.103575	-0.011307	-0.120085	-3.348345	-0.110816
0.75000	-1.90E-05	-0.103575	-0.148239	-0.120085	-3.245847	-0.110816
1.00000	-1.90E-05	-0.103575	-0.285171	-0.120085	-3.143349	-0.110816

ELEM 464 ========== LENGTH = 4.942678

LOAD -A1 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.79E-08	0.001814	-0.000339	-0.007093	-0.152401	4.08E-05
0.25000	1.79E-08	0.001814	-0.000389	-0.007093	-0.143636	4.08E-05
0.50000	1.79E-08	0.001814	-0.000439	-0.007093	-0.134871	4.08E-05
0.75000	1.79E-08	0.001814	-0.000490	-0.007093	-0.126105	4.08E-05
1.00000	1.79E-08	0.001814	-0.000540	-0.007093	-0.117340	4.08E-05

LOAD -P1 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.10E-07	-0.010642	0.000309	0.033102	0.710533	-0.000709
0.25000	-1.10E-07	-0.010642	0.001185	0.033102	0.669629	-0.000709
0.50000	-1.10E-07	-0.010642	0.002061	0.033102	0.628726	-0.000709
0.75000	-1.10E-07	-0.010642	0.002937	0.033102	0.587822	-0.000709
1.00000	-1.10E-07	-0.010642	0.003813	0.033102	0.546919	-0.000709

LOAD -P2 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	2.93E-06	-0.002539	0.007394	-0.110963	-2.375439	0.005846
0.25000	2.93E-06	-0.002539	0.000170	-0.110963	-2.238326	0.005846
0.50000	2.93E-06	-0.002539	-0.007053	-0.110963	-2.101212	0.005846
0.75000	2.93E-06	-0.002539	-0.014276	-0.110963	-1.964098	0.005846
1.00000	2.93E-06	-0.002539	-0.021500	-0.110963	-1.826984	0.005846

LOAD -P3 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.50E-05	0.050932	-0.273055	0.220992	2.846450	-0.113601
0.25000	-1.50E-05	0.050932	-0.132681	0.220992	2.573377	-0.113601
0.50000	-1.50E-05	0.050932	0.007692	0.220992	2.300305	-0.113601
0.75000	-1.50E-05	0.050932	0.148065	0.220992	2.027232	-0.113601
1.00000	-1.50E-05	0.050932	0.288439	0.220992	1.754159	-0.113601

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.17E-05	0.065768	0.011584	-0.202586	-0.652011	0.128091
0.25000	1.17E-05	0.065768	0.157686	-0.202586	-0.401681	0.128091
0.50000	1.17E-05	0.065768	-0.000591	-0.202586	-0.151351	0.128091
0.75000	1.17E-05	0.065768	-0.158869	-0.202586	0.099978	0.128091
1.00000	1.17E-05	0.065768	-0.317147	-0.202586	0.349308	0.128091

LOAD -P5 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	4.54E-07	-0.105334	-0.050274	0.066549	-0.377132	-0.019667
0.25000	4.54E-07	-0.105334	-0.025971	0.066549	-0.459364	-0.019667
0.50000	4.54E-07	-0.105334	-0.001669	0.066549	-0.541597	-0.019667
0.75000	4.54E-07	-0.105334	0.022633	0.066549	-0.623829	-0.019667
1.00000	4.54E-07	-0.105334	0.046935	0.066549	-0.706061	-0.019667

LOAD -2N+1- ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.47E-05	0.065044	0.323019	-0.320643	-3.179851	0.133977
0.25000	1.47E-05	0.065044	0.157468	-0.320643	-2.783642	0.133977
0.50000	1.47E-05	0.065044	-0.008084	-0.320643	-2.387434	0.133977
0.75000	1.47E-05	0.065044	-0.173636	-0.320643	-1.991225	0.133977
1.00000	1.47E-05	0.065044	-0.339187	-0.320643	-1.595016	0.133977

LOAD -2N+2- ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.47E-05	-0.065044	-0.323019	0.320643	3.179851	-0.133977
0.25000	-1.47E-05	-0.065044	-0.157468	0.320643	2.783642	-0.133977
0.50000	-1.47E-05	-0.065044	0.008084	0.320643	2.387434	-0.133977
0.75000	-1.47E-05	-0.065044	0.173636	0.320643	1.991225	-0.133977
1.00000	-1.47E-05	-0.065044	0.339187	0.320643	1.595016	-0.133977

COMB SETTLE ---------- MAX

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.47E-05	0.065768	0.323019	0.320643	3.179851	0.133977
0.25000	1.47E-05	0.065768	0.157686	0.320643	2.783642	0.133977
0.50000	1.47E-05	0.065768	0.008084	0.320643	2.387434	0.133977
0.75000	1.47E-05	0.065768	0.173636	0.320643	2.027232	0.133977
1.00000	1.47E-05	0.065768	0.339187	0.320643	1.754159	0.133977

COMB SETTLE ---------- MIN

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.50E-05	-0.105334	-0.323019	-0.320643	-3.179851	-0.133977
0.25000	-1.50E-05	-0.105334	-0.157468	-0.320643	-2.783642	-0.133977
0.50000	-1.50E-05	-0.105334	-0.008084	-0.320643	-2.387434	-0.133977
0.75000	-1.50E-05	-0.105334	-0.173636	-0.320643	-1.991225	-0.133977
1.00000	-1.50E-05	-0.105334	-0.339187	-0.320643	-1.826984	-0.133977

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 465 ========== LENGTH = 4.943780

LOAD -A1 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-2.54E-07	0.001920	0.001967	-0.007124	-0.117485	0.000925
0.25000	-2.54E-07	0.001920	0.000824	-0.007124	-0.108681	0.000925
0.50000	-2.54E-07	0.001920	-0.000320	-0.007124	-0.099876	0.000925
0.75000	-2.54E-07	0.001920	-0.001463	-0.007124	-0.091072	0.000925
1.00000	-2.54E-07	0.001920	-0.002607	-0.007124	-0.082267	0.000925

LOAD -P1 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.15E-06	-0.010478	-0.010613	0.033245	0.547757	-0.004900
0.25000	1.15E-06	-0.010478	-0.004557	0.033245	0.506669	-0.004900
0.50000	1.15E-06	-0.010478	0.001499	0.033245	0.465580	-0.004900
0.75000	1.15E-06	-0.010478	0.007555	0.033245	0.424492	-0.004900
1.00000	1.15E-06	-0.010478	0.013612	0.033245	0.383403	-0.004900

LOAD -P2 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.77E-07	-0.004019	-0.110774	-0.110774	-1.830927	0.020334
0.25000	-1.77E-07	-0.004019	-0.070013	-0.110774	-1.690417	0.020334
0.50000	-1.77E-07	-0.004019	-0.029252	-0.110774	-1.549907	0.020334
0.75000	-1.77E-07	-0.004019	-0.005119	-0.110774	-1.557106	0.020334
1.00000	-1.77E-07	-0.004019	-0.030250	-0.110774	-1.420196	0.020334

LOAD -P3 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-1.30E-05	0.046978	-0.310994	0.217279	1.790108	-0.127447
0.25000	-1.30E-05	0.046978	-0.153476	0.217279	1.521563	-0.127447
0.50000	-1.30E-05	0.046978	0.004042	0.217279	1.253017	-0.127447
0.75000	-1.30E-05	0.046978	0.161560	0.217279	0.984472	-0.127447
1.00000	-1.30E-05	0.046978	0.319078	0.217279	0.715927	-0.127447

LOAD -P4 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	1.30E-05	0.071073	0.312515	-0.195992	0.311479	0.125373
0.25000	1.30E-05	0.071073	0.157561	-0.195992	0.553715	0.125373
0.50000	1.30E-05	0.071073	0.002607	-0.195992	0.795951	0.125373
0.75000	1.30E-05	0.071073	-0.152347	-0.195992	1.038186	0.125373
1.00000	1.30E-05	0.071073	-0.307301	-0.195992	1.280422	0.125373

LOAD -P5 ----------

REL DIST	T	P	M2	V2	M3	V3
0.00000	-7.51E-07	-0.105474	-0.038020	0.063366	-0.700933	-0.014284
0.25000	-7.51E-07	-0.105474	-0.020365	0.063366	-0.779249	-0.014284
0.50000	-7.51E-07	-0.105474	-0.002710	0.063366	-0.857565	-0.014284

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	T	P	M2	V2	M3	V3
0.75000	-7.51E-07	-0.105474	-0.019945	0.063366	-0.935982	-0.014284
1.00000	-7.51E-07	-0.105474	0.032600	0.063366	-1.014198	-0.014284

LOAD -2N+1- ----------

REL DIST	T	P	M2	V2	M3	V3

```
 0.00000     0.068974    -0.313889     0.146632
 1.26E-05    0.359627    -1.636932
 0.25000     0.068974    -0.313889     0.146632
 1.26E-05    0.178398    -1.248982
 0.50000     0.068974    -0.313889     0.146632
 1.26E-05   -0.002831    -0.861032
 0.75000     0.068974    -0.313889     0.146632
 1.26E-05   -0.184060    -0.473082
 1.00000     0.068974    -0.313889     0.146632
 1.26E-05   -0.365289    -0.085132

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.068974     0.313889    -0.146632
-1.26E-05   -0.359627     1.636932
 0.25000    -0.068974     0.313889    -0.146632
-1.26E-05   -0.178398     1.248982
 0.50000    -0.068974     0.313889    -0.146632
-1.26E-05    0.002831     0.861032
 0.75000    -0.068974     0.313889    -0.146632
-1.26E-05    0.184060     0.473082
 1.00000    -0.068974     0.313889    -0.146632
-1.26E-05    0.365289     0.085132

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.071073     0.313889     0.146632
 1.30E-05    0.359627     1.790108
 0.25000     0.071073     0.313889     0.146632
 1.30E-05    0.178398     1.521563
 0.50000     0.071073     0.313889     0.146632
 1.30E-05    0.004042     1.253017
 0.75000     0.071073     0.313889     0.146632
 1.30E-05    0.184060     1.038186
 1.00000     0.071073     0.313889     0.146632
 1.30E-05    0.365289     1.280422

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.105474    -0.313889    -0.146632
-1.30E-05   -0.359627    -1.830927
 0.25000    -0.105474    -0.313889    -0.146632
-1.30E-05   -0.178398    -1.694017
 0.50000    -0.105474    -0.313889    -0.146632
-1.30E-05   -0.005119    -1.557106
 0.75000    -0.105474    -0.313889    -0.146632
-1.30E-05    0.184060    -1.420196
 1.00000    -0.105474    -0.313889    -0.146632
-1.30E-05    0.365289    -1.283286

ELEM      466 ================== LENGTH
=    4.943055

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.001830    -0.007498     0.001548
-4.44E-07    0.003617    -0.082649
 0.25000     0.001830    -0.007498     0.001548
-4.44E-07    0.001704    -0.073383
 0.50000     0.001830    -0.007498     0.001548
-4.44E-07   -0.000208    -0.064117
 0.75000     0.001830    -0.007498     0.001548
-4.44E-07   -0.002121    -0.054851
 1.00000     0.001830    -0.007498     0.001548
-4.44E-07   -0.004033    -0.045585
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                              883

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.009572     0.034992    -0.007849
 2.04E-06   -0.018424     0.385365
 0.25000    -0.009572     0.034992    -0.007849
 2.04E-06   -0.008724     0.342123
 0.50000    -0.009572     0.034992    -0.007849
 2.04E-06    0.000976     0.298880
 0.75000    -0.009572     0.034992    -0.007849
 2.04E-06    0.010676     0.255638
 1.00000    -0.009572     0.034992    -0.007849
 2.04E-06    0.020376     0.212395

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.004293    -0.116891     0.030196
-2.43E-06    0.071365    -1.290921
 0.25000    -0.004293    -0.116891     0.030196
-2.43E-06    0.034050    -1.146471
 0.50000    -0.004293    -0.116891     0.030196
-2.43E-06   -0.003266    -1.002022
 0.75000    -0.004293    -0.116891     0.030196
-2.43E-06   -0.040582    -0.857572
 1.00000    -0.004293    -0.116891     0.030196
-2.43E-06   -0.077897    -0.713122

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.039998     0.225622    -0.132337
-1.16E-05   -0.326686     0.754617
 0.25000     0.039998     0.225622    -0.132337
-1.16E-05   -0.147149     0.475902
 0.50000     0.039998     0.225622    -0.132337
-1.16E-05    0.000388     0.196987
 0.75000     0.039998     0.225622    -0.132337
-1.16E-05    0.163924    -0.081829
 1.00000     0.039998     0.225622    -0.132337
-1.16E-05    0.327461    -0.360644

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.075829    -0.199669     0.114783
 1.47E-05    0.389602     1.244704
 0.25000     0.075829    -0.199669     0.114783
 1.47E-05    0.147757     1.491448
 0.50000     0.075829    -0.199669     0.114783
 1.47E-05    0.005911     1.738191
 0.75000     0.075829    -0.199669     0.114783
 1.47E-05   -0.135934     1.984935
 1.00000     0.075829    -0.199669     0.114783
 1.47E-05   -0.277779     2.231679

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.103791     0.063444    -0.006341
-2.29E-06   -0.019474    -1.011116
 0.25000    -0.103791     0.063444    -0.006341
-2.29E-06   -0.011638    -1.089518
 0.50000    -0.103791     0.063444    -0.006341
-2.29E-06   -0.003801    -1.167919
 0.75000    -0.103791     0.063444    -0.006341
-2.29E-06    0.004035    -1.246321
 1.00000    -0.103791     0.063444    -0.006341
-2.29E-06    0.011872    -1.324723

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.073365    -0.324058     0.146527
 1.18E-05    0.364584    -0.128866
 0.25000     0.073365    -0.324058     0.146527
 1.18E-05    0.183511     0.271593
 0.50000     0.073365    -0.324058     0.146527
 1.18E-05    0.002437     0.672053
 0.75000     0.073365    -0.324058     0.146527
 1.18E-05   -0.178636     1.072512
 1.00000     0.073365    -0.324058     0.146527
 1.18E-05   -0.359710     1.472971
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                              884

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.073365     0.324058    -0.146527
-1.18E-05   -0.364584     0.128866
 0.25000    -0.073365     0.324058    -0.146527
-1.18E-05   -0.183511     0.271593
 0.50000    -0.073365     0.324058    -0.146527
-1.18E-05   -0.002437    -0.672053
 0.75000    -0.073365     0.324058    -0.146527
-1.18E-05    0.178636    -1.072512
 1.00000    -0.073365     0.324058    -0.146527
-1.18E-05    0.359710    -1.472971

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.075829     0.324058     0.146527
 1.47E-05    0.364584     1.244704
 0.25000     0.075829     0.324058     0.146527
 1.47E-05    0.183511     1.491448
 0.50000     0.075829     0.324058     0.146527
 1.47E-05    0.005911     1.738191
 0.75000     0.075829     0.324058     0.146527
 1.47E-05    0.178636     1.984935
 1.00000     0.075829     0.324058     0.146527
 1.47E-05    0.359710     2.231679

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.103791    -0.324058    -0.146527
-1.18E-05   -0.364584    -1.290921
 0.25000    -0.103791    -0.324058    -0.146527
-1.18E-05   -0.183511    -1.146471
 0.50000    -0.103791    -0.324058    -0.146527
-1.18E-05   -0.003801    -1.167919
 0.75000    -0.103791    -0.324058    -0.146527
-1.18E-05   -0.178636    -1.246321
 1.00000    -0.103791    -0.324058    -0.146527
-1.18E-05   -0.359710    -1.472971

ELEM      467 ================== LENGTH
=    4.942457

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.001499    -0.007852     0.001919
-5.12E-07    0.004654    -0.046105
 0.25000     0.001499    -0.007852     0.001919
-5.12E-07    0.002282    -0.036402
 0.50000     0.001499    -0.007852     0.001919
-5.12E-07   -8.96E-05    -0.026699
 0.75000     0.001499    -0.007852     0.001919
-5.12E-07   -0.002461    -0.016997
 1.00000     0.001499    -0.007852     0.001919
-5.12E-07   -0.004833    -0.007294

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.007691     0.036644    -0.009608
 2.36E-06   -0.023325     0.215010
 0.25000    -0.007691     0.036644    -0.009608
 2.36E-06   -0.011453     0.169732
 0.50000    -0.007691     0.036644    -0.009608
 2.36E-06    0.000420     0.124454
 0.75000    -0.007691     0.036644    -0.009608
 2.36E-06    0.012292     0.079176
 1.00000    -0.007691     0.036644    -0.009608
 2.36E-06    0.024164     0.033898

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.003224    -0.121450     0.035306
-4.03E-06    0.086009    -0.722959
 0.25000    -0.003224    -0.121450     0.035306
-4.03E-06    0.042384    -0.572894
 0.50000    -0.003224    -0.121450     0.035306
-4.03E-06   -0.001240    -0.422829
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                              885

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.75000    -0.003224    -0.121450     0.035306
-4.03E-06   -0.044865    -0.272764
 1.00000    -0.003224    -0.121450     0.035306
-4.03E-06   -0.088489    -0.122699

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.028892     0.150639    -0.128647
-1.09E-05   -0.320663    -0.321728
 0.25000     0.028892     0.150639    -0.128647
-1.09E-05   -0.161705    -0.507860
 0.50000     0.028892     0.150639    -0.128647
-1.09E-05   -0.002746    -0.693991
 0.75000     0.028892     0.150639    -0.128647
-1.09E-05    0.156212    -0.880123
 1.00000     0.028892     0.150639    -0.128647
-1.09E-05    0.315170    -1.066254

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.080456    -0.040182     0.097719
 1.74E-05    0.249280     2.200031
 0.25000     0.080456    -0.040182     0.097719
 1.74E-05    0.128537     2.249680
 0.50000     0.080456    -0.040182     0.097719
 1.74E-05    0.007794     2.299329
 0.75000     0.080456    -0.040182     0.097719
 1.74E-05   -0.112949     2.348978
 1.00000     0.080456    -0.040182     0.097719
 1.74E-05   -0.233692     2.398627

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.099931    -0.017799     0.003311
-4.30E-06    0.004046    -1.324249
 0.25000    -0.099931    -0.017799     0.003311
-4.30E-06   -4.55E-05    -1.302256
 0.50000    -0.099931    -0.017799     0.003311
-4.30E-06   -0.004137    -1.280263
 0.75000    -0.099931    -0.017799     0.003311
-4.30E-06   -0.008229    -1.258270
 1.00000    -0.099931    -0.017799     0.003311
-4.30E-06   -0.012321    -1.236277

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.078731    -0.169484     0.134944
 1.29E-05    0.339942     1.430967
 0.25000     0.078731    -0.169484     0.134944
 1.29E-05    0.173203     1.640384
 0.50000     0.078731    -0.169484     0.134944
 1.29E-05    0.006464     1.849800
 0.75000     0.078731    -0.169484     0.134944
 1.29E-05   -0.160275     2.059217
 1.00000     0.078731    -0.169484     0.134944
 1.29E-05   -0.327014     2.268633

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.078731     0.169484    -0.134944
-1.29E-05   -0.339942    -1.430967
 0.25000    -0.078731     0.169484    -0.134944
-1.29E-05   -0.173203    -1.640384
 0.50000    -0.078731     0.169484    -0.134944
-1.29E-05   -0.006464    -1.849800
 0.75000    -0.078731     0.169484    -0.134944
-1.29E-05    0.160275    -2.059217
 1.00000    -0.078731     0.169484    -0.134944
-1.29E-05    0.327014    -2.268633

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.080456     0.169484     0.134944
 1.74E-05    0.339942     2.200031
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                              886

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
 0.25000     0.080456     0.169484     0.134944
 1.74E-05    0.173203     2.249680
 0.50000     0.080456     0.169484     0.134944
 1.74E-05    0.007794     2.299329
 0.75000     0.080456     0.169484     0.134944
 1.74E-05    0.160275     2.348978
 1.00000     0.080456     0.169484     0.134944
 1.74E-05    0.327014     2.398627

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.099931    -0.169484    -0.134944
-1.29E-05   -0.339942    -1.430967
 0.25000    -0.099931    -0.169484    -0.134944
-1.29E-05   -0.173203    -1.640384
 0.50000    -0.099931    -0.169484    -0.134944
-1.29E-05   -0.006464    -1.849800
 0.75000    -0.099931    -0.169484    -0.134944
-1.29E-05   -0.160275    -2.059217
 1.00000    -0.099931    -0.169484    -0.134944
-1.29E-05   -0.327014    -2.268633

ELEM      468 ================== LENGTH
=    4.942920

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.001126    -0.005125     0.002069
-3.15E-07    0.005114    -0.007892
 0.25000     0.001126    -0.005125     0.002069
-3.15E-07    0.002557    -0.001559
 0.50000     0.001126    -0.005125     0.002069
-3.15E-07   -2.78E-07    -0.004775
 0.75000     0.001126    -0.005125     0.002069
-3.15E-07   -0.002557    -0.011108
 1.00000     0.001126    -0.005125     0.002069
-3.15E-07   -0.005115    -0.017442

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.005708     0.023932    -0.010315
 1.44E-06   -0.025491     0.036882
 0.25000    -0.005708     0.023932    -0.010315
 1.44E-06   -0.012745     0.007308
 0.50000    -0.005708     0.023932    -0.010315
 1.44E-06    9.10E-07    -0.022265
 0.75000    -0.005708     0.023932    -0.010315
 1.44E-06    0.012747    -0.051839
 1.00000    -0.005708     0.023932    -0.010315
 1.44E-06    0.025493    -0.081413

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.002508    -0.081895     0.036035
-4.77E-06    0.046372     0.133379
 0.25000    -0.002508    -0.081895     0.036035
-4.77E-06    0.044843    -0.032180
 0.50000    -0.002508    -0.081895     0.036035
-4.77E-06    0.000313     0.069020
 0.75000    -0.002508    -0.081895     0.036035
-4.77E-06   -0.044216     0.170219
 1.00000    -0.002508    -0.081895     0.036035
-4.77E-06   -0.088745     0.271419

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.020460     0.160155    -0.118045
-8.23E-06   -0.296763    -1.029530
 0.25000     0.020460     0.160155    -0.118045
-8.23E-06   -0.150891    -1.227438
 0.50000     0.020460     0.160155    -0.118045
-8.23E-06   -0.005019    -1.425346
 0.75000     0.020460     0.160155    -0.118045
-8.23E-06    0.140853    -1.623254
 1.00000     0.020460     0.160155    -0.118045
-8.23E-06    0.286725    -1.821162
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                              887

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.081909    -0.140995     0.076557
 1.71E-05    0.198332     2.372707
 0.25000     0.081909    -0.140995     0.076557
 1.71E-05    0.103729     2.546939
 0.50000     0.081909    -0.140995     0.076557
 1.71E-05    0.009125     2.721171
 0.75000     0.081909    -0.140995     0.076557
 1.71E-05   -0.085478     2.895403
 1.00000     0.081909    -0.140995     0.076557
 1.71E-05   -0.180082     3.069636

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.095279     0.043928     0.013699
-5.19E-06   -0.034435     0.238787
 0.25000    -0.095279     0.043928     0.013699
-5.19E-06    0.012507    -1.293071
 0.50000    -0.095279     0.043928     0.013699
-5.19E-06   -0.004421    -1.347355
 0.75000    -0.095279     0.043928     0.013699
-5.19E-06   -0.021348    -1.401638
 1.00000    -0.095279     0.043928     0.013699
-5.19E-06   -0.038276    -1.455922

LOAD  -2N+1- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.080526    -0.228015     0.114661
 1.20E-05    0.292818     2.231436
 0.25000     0.080526    -0.228015     0.114661
 1.20E-05    0.151128     2.513201
 0.50000     0.080526    -0.228015     0.114661
 1.20E-05    0.009439     2.794966
 0.75000     0.080526    -0.228015     0.114661
 1.20E-05   -0.132251     3.076731
 1.00000     0.080526    -0.228015     0.114661
 1.20E-05   -0.273941     3.358496

LOAD  -2N+2- ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.080526     0.228015    -0.114661
-1.20E-05   -0.292818    -2.231436
 0.25000    -0.080526     0.228015    -0.114661
-1.20E-05   -0.151128    -2.513201
 0.50000    -0.080526     0.228015    -0.114661
-1.20E-05   -0.009439    -2.794966
 0.75000    -0.080526     0.228015    -0.114661
-1.20E-05    0.132251    -3.076731
 1.00000    -0.080526     0.228015    -0.114661
-1.20E-05    0.273941    -3.358496

COMB  SETTLE ------------------ MAX

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.081909     0.228015     0.114661
 1.71E-05    0.292818     2.372707
 0.25000     0.081909     0.228015     0.114661
 1.71E-05    0.151128     2.546939
 0.50000     0.081909     0.228015     0.114661
 1.71E-05    0.009439     2.794966
 0.75000     0.081909     0.228015     0.114661
 1.71E-05    0.140853     3.076731
 1.00000     0.081909     0.228015     0.114661
 1.71E-05    0.286725     3.358496

COMB  SETTLE ------------------ MIN

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.095279    -0.228015    -0.118045
-1.20E-05   -0.296763    -2.231436
 0.25000    -0.095279    -0.228015    -0.118045
-1.20E-05   -0.151128    -2.513201
 0.50000    -0.095279    -0.228015    -0.118045
-1.20E-05   -0.009439    -2.794966
 0.75000    -0.095279    -0.228015    -0.118045
-1.20E-05   -0.132251    -3.076731
 1.00000    -0.095279    -0.228015    -0.118045
-1.20E-05   -0.273941    -3.358496
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                              888

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      469 ================== LENGTH
=    4.943568

LOAD     -A1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.001434    -0.004800     0.001923
 2.36E-07    0.004907     0.016883
 0.25000     0.001434    -0.004800     0.001923
 2.36E-07    0.002530     0.022815
 0.50000     0.001434    -0.004800     0.001923
 2.36E-07    0.000153     0.028747
 0.75000     0.001434    -0.004800     0.001923
 2.36E-07   -0.002223     0.034679
 1.00000     0.001434    -0.004800     0.001923
 2.36E-07   -0.004600     0.040612

LOAD     -P1 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.006993     0.022418    -0.009597
-1.12E-06   -0.024463    -0.078614
 0.25000    -0.006993     0.022418    -0.009597
-1.12E-06   -0.012602    -0.106320
 0.50000    -0.006993     0.022418    -0.009597
-1.12E-06   -0.000740    -0.134026
 0.75000    -0.006993     0.022418    -0.009597
-1.12E-06    0.011121    -0.161733
 1.00000    -0.006993     0.022418    -0.009597
-1.12E-06    0.022982    -0.189439

LOAD     -P2 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.001863    -0.066563     0.032177
-5.42E-06    0.082098     0.261078
 0.25000    -0.001863    -0.066563     0.032177
-5.42E-06    0.042330     0.343343
 0.50000    -0.001863    -0.066563     0.032177
-5.42E-06    0.002563     0.425608
 0.75000    -0.001863    -0.066563     0.032177
-5.42E-06   -0.037204     0.507873
 1.00000    -0.001863    -0.066563     0.032177
-5.42E-06   -0.076972     0.590138

LOAD     -P3 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.016017     0.092158    -0.098477
-1.14E-06   -0.253538    -1.788096
 0.25000     0.016017     0.092158    -0.098477
-1.14E-06   -0.131831    -1.901093
 0.50000     0.016017     0.092158    -0.098477
-1.14E-06   -0.010125    -2.015890
 0.75000     0.016017     0.092158    -0.098477
-1.14E-06    0.111582    -2.129787
 1.00000     0.016017     0.092158    -0.098477
-1.14E-06    0.233288    -2.243684

LOAD     -P4 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000     0.083623    -0.046091     0.050035
 1.26E-05    0.135764     3.050217
 0.25000     0.083623    -0.046091     0.050035
 1.26E-05    0.073926     3.107180
 0.50000     0.083623    -0.046091     0.050035
 1.26E-05    0.012088     3.164144
 0.75000     0.083623    -0.046091     0.050035
 1.26E-05   -0.049750     3.221107
 1.00000     0.083623    -0.046091     0.050035
 1.26E-05   -0.111589     3.278071

LOAD     -P5 ------------------

REL DIST          P           V2          V3
       T          M2          M3
 0.00000    -0.092219     0.002878     0.023939
-5.17E-06    0.055232    -1.461469
 0.25000    -0.092219     0.002878     0.023939
-5.17E-06    0.025647    -1.465026
 0.50000    -0.092219     0.002878     0.023939
-5.17E-06   -0.003939    -1.468583
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                              889

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S
```

REL DIST P V2 V3
T M2 M3
0.75000 -0.092219 0.002878 0.023939
-5.17E-06 -0.033524 -1.472140
1.00000 -0.092219 0.002878 0.023939
-5.17E-06 -0.063110 -1.475697

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.083195 -0.117454 0.084136
7.43E-06 0.222769 3.328178
0.25000 0.083195 -0.117454 0.084136
7.43E-06 0.118787 3.473338
0.50000 0.083195 -0.117454 0.084136
7.43E-06 0.014804 3.618499
0.75000 0.083195 -0.117454 0.084136
7.43E-06 -0.089178 3.763659
1.00000 0.083195 -0.117454 0.084136
7.43E-06 -0.193161 3.908820

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.083195 0.117454 -0.084136
-7.43E-06 -0.222769 -3.328178
0.25000 -0.083195 0.117454 -0.084136
-7.43E-06 -0.118787 -3.473338
0.50000 -0.083195 0.117454 -0.084136
-7.43E-06 -0.014804 -3.618499
0.75000 -0.083195 0.117454 -0.084136
-7.43E-06 0.089178 -3.763659
1.00000 -0.083195 0.117454 -0.084136
-7.43E-06 0.193161 -3.908820

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.083623 0.117454 0.084136
1.26E-05 0.222769 3.328178
0.25000 0.083623 0.117454 0.084136
1.26E-05 0.118787 3.473338
0.50000 0.083623 0.117454 0.084136
1.26E-05 0.014804 3.618499
0.75000 0.083623 0.117454 0.084136
1.26E-05 0.111582 3.763659
1.00000 0.083623 0.117454 0.084136
1.26E-05 0.233288 3.908820

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.092219 -0.117454 -0.098477
-7.43E-06 -0.253538 -3.328178
0.25000 -0.092219 -0.117454 -0.098477
-7.43E-06 -0.131831 -3.473338
0.50000 -0.092219 -0.117454 -0.098477
-7.43E-06 -0.014804 -3.618499
0.75000 -0.092219 -0.117454 -0.098477
-7.43E-06 -0.089178 -3.763659
1.00000 -0.092219 -0.117454 -0.098477
-7.43E-06 -0.193161 -3.908820

ELEM 470 ========== LENGTH = 3.460116

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.002495 0.000940 0.003156
9.64E-07 0.005637 0.039943
0.25000 0.002495 0.000940 0.003156
9.64E-07 0.002907 0.039130
0.50000 0.002495 0.000940 0.003156
9.64E-07 0.000177 0.038317
0.75000 0.002495 0.000940 0.003156
9.64E-07 -0.002553 0.037505
1.00000 0.002495 0.000940 0.003156
9.64E-07 -0.005283 0.036692
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1504.OUT

Page 890
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.011835 -0.004307 -0.015906
-4.50E-06 -0.028348 -0.186109
0.25000 -0.011835 -0.004307 -0.015906
-4.50E-06 -0.014589 -0.182384
0.50000 -0.011835 -0.004307 -0.015906
-4.50E-06 -0.000830 -0.178658
0.75000 -0.011835 -0.004307 -0.015906
-4.50E-06 0.012929 -0.174933
1.00000 -0.011835 -0.004307 -0.015906
-4.50E-06 0.026688 -0.171208

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.002326 -0.048460 0.055378
-6.76E-06 0.097865 0.579756
0.25000 -0.002326 -0.048460 0.055378
-6.76E-06 0.049962 0.621675
0.50000 -0.002326 -0.048460 0.055378
-6.76E-06 0.002059 0.663595
0.75000 -0.002326 -0.048460 0.055378
-6.76E-06 -0.045844 0.705514
1.00000 -0.002326 -0.048460 0.055378
-6.76E-06 -0.093747 0.747433

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.019338 0.083904 -0.163031
9.85E-06 -0.289036 -2.213098
0.25000 0.019338 0.083904 -0.163031
9.85E-06 -0.148010 -2.285678
0.50000 0.019338 0.083904 -0.163031
9.85E-06 -0.006983 -2.358258
0.75000 0.019338 0.083904 -0.163031
9.85E-06 0.134043 -2.430838
1.00000 0.019338 0.083904 -0.163031
9.85E-06 0.275070 -2.503417

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.083733 -0.002657 0.053117
3.69E-06 0.102047 3.265729
0.25000 0.083733 -0.002657 0.053117
3.69E-06 0.056099 3.268027
0.50000 0.083733 -0.002657 0.053117
3.69E-06 0.010151 3.270325
0.75000 0.083733 -0.002657 0.053117
3.69E-06 -0.035797 3.272624
1.00000 0.083733 -0.002657 0.053117
3.69E-06 -0.081745 3.274922

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.091405 -0.029421 0.067286
-3.23E-06 -1.486222 -1.486222
0.25000 -0.091405 -0.029421 0.067286
-3.23E-06 0.053631 -1.460771
0.50000 -0.091405 -0.029421 0.067286
-3.23E-06 -0.004574 -1.435321
0.75000 -0.091405 -0.029421 0.067286
-3.23E-06 -0.062778 -1.409871
1.00000 -0.091405 -0.029421 0.067286
-3.23E-06 -0.120983 -1.384421

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.083901 -0.050177 0.111651
-2.11E-06 0.205550 3.885429
0.25000 0.083901 -0.050177 0.111651
-2.11E-06 0.108968 3.928833
0.50000 0.083901 -0.050177 0.111651
-2.11E-06 0.012387 3.972238
0.75000 0.083901 -0.050177 0.111651
-2.11E-06 -0.084194 4.015642
1.00000 0.083901 -0.050177 0.111651
-2.11E-06 -0.180775 4.059046
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1504.OUT

Page 891
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.083901 0.050177 -0.111651
2.11E-06 -0.205550 -3.885429
0.25000 -0.083901 0.050177 -0.111651
2.11E-06 -0.108968 -3.928833
0.50000 -0.083901 0.050177 -0.111651
2.11E-06 -0.012387 -3.972238
0.75000 -0.083901 0.050177 -0.111651
2.11E-06 0.084194 -4.015642
1.00000 -0.083901 0.050177 -0.111651
2.11E-06 0.180775 -4.059046

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.083901 0.083904 0.111651
9.85E-06 0.205550 3.885429
0.25000 0.083901 0.083904 0.111651
9.85E-06 0.108968 3.928833
0.50000 0.083901 0.083904 0.111651
9.85E-06 0.012387 3.972238
0.75000 0.083901 0.083904 0.111651
9.85E-06 0.134043 4.015642
1.00000 0.083901 0.083904 0.111651
9.85E-06 0.275070 4.059046

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.091405 -0.050177 -0.163031
-6.76E-06 -0.289036 -3.885429
0.25000 -0.091405 -0.050177 -0.163031
-6.76E-06 -0.148010 -3.928833
0.50000 -0.091405 -0.050177 -0.163031
-6.76E-06 -0.012387 -3.972238
0.75000 -0.091405 -0.050177 -0.163031
-6.76E-06 -0.084194 -4.015642
1.00000 -0.091405 -0.050177 -0.163031
-6.76E-06 -0.180775 -4.059046

ELEM 471 ========== LENGTH = 4.942629

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.002426 -0.003060 0.001044
-1.44E-06 0.002734 0.039217
0.25000 0.002426 -0.003060 0.001044
-1.44E-06 0.001444 0.039998
0.50000 0.002426 -0.003060 0.001044
-1.44E-06 0.000155 0.043780
0.75000 0.002426 -0.003060 0.001044
-1.44E-06 -0.001135 0.047562
1.00000 0.002426 -0.003060 0.001044
-1.44E-06 -0.002425 0.051343

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.011425 0.014296 -0.005446
6.70E-06 -0.014169 -0.168785
0.25000 -0.011425 0.014296 -0.005446
6.70E-06 -0.007439 -0.186450
0.50000 -0.011425 0.014296 -0.005446
6.70E-06 -0.000709 -0.204115
0.75000 -0.011425 0.014296 -0.005446
6.70E-06 0.006021 -0.221780
1.00000 -0.011425 0.014296 -0.005446
6.70E-06 0.012751 -0.239445

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.001130 -0.003116 0.023512
-3.30E-06 0.059761 0.738212
0.25000 -0.001130 -0.003116 0.023512
-3.30E-06 0.030709 0.742062
0.50000 -0.001130 -0.003116 0.023512
-3.30E-06 0.001656 0.745912
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1504.OUT

Page 892
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.75000 -0.001130 -0.003116 0.023512
-3.30E-06 -0.027396 0.749762
1.00000 -0.001130 -0.003116 0.023512
-3.30E-06 -0.056449 0.753612

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.012955 -0.003317 -0.068295
-3.07E-06 -0.174349 -2.476377
0.25000 0.012955 -0.003317 -0.068295
-3.07E-06 -0.089960 -2.472278
0.50000 0.012955 -0.003317 -0.068295
-3.07E-06 -0.005571 -2.468178
0.75000 0.012955 -0.003317 -0.068295
-3.07E-06 0.078818 -2.464079
1.00000 0.012955 -0.003317 -0.068295
-3.07E-06 0.163207 -2.459980

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.083975 -0.020100 0.003811
-1.24E-05 0.020137 3.268771
0.25000 0.083975 -0.020100 0.003811
-1.24E-05 0.015427 3.293608
0.50000 0.083975 -0.020100 0.003811
-1.24E-05 0.010718 3.318445
0.75000 0.083975 -0.020100 0.003811
-1.24E-05 0.006008 3.343281
1.00000 0.083975 -0.020100 0.003811
-1.24E-05 0.001299 3.368118

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.086801 0.015297 0.045374
1.36E-05 0.105885 -1.398038
0.25000 -0.086801 0.015297 0.045374
1.36E-05 0.049818 -1.416941
0.50000 -0.086801 0.015297 0.045374
1.36E-05 -0.006249 -1.435843
0.75000 -0.086801 0.015297 0.045374
1.36E-05 -0.062316 -1.454745
1.00000 -0.086801 0.015297 0.045374
1.36E-05 -0.118383 -1.473648

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.085271 -0.026276 0.028367
-1.72E-05 0.082632 4.043200
0.25000 0.085271 -0.026276 0.028367
-1.72E-05 0.047581 4.075668
0.50000 0.085271 -0.026276 0.028367
-1.72E-05 0.012529 4.108137
0.75000 0.085271 -0.026276 0.028367
-1.72E-05 -0.022523 4.140605
1.00000 0.085271 -0.026276 0.028367
-1.72E-05 -0.057575 4.173073

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.085271 0.026276 -0.028367
1.72E-05 -0.082632 -4.043200
0.25000 -0.085271 0.026276 -0.028367
1.72E-05 -0.047581 -4.075668
0.50000 -0.085271 0.026276 -0.028367
1.72E-05 -0.012529 -4.108137
0.75000 -0.085271 0.026276 -0.028367
1.72E-05 0.022523 -4.140605
1.00000 -0.085271 0.026276 -0.028367
1.72E-05 0.057575 -4.173073

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.085271 0.026276 0.045374
1.72E-05 0.105885 4.043200
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1504.OUT

Page 893
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST P V2 V3
T M2 M3
0.25000 0.085271 0.026276 0.045374
1.72E-05 0.049818 4.075668
0.50000 0.085271 0.026276 0.045374
1.72E-05 0.012529 4.108137
0.75000 0.085271 0.026276 0.045374
1.72E-05 0.078818 4.140605
1.00000 0.085271 0.026276 0.045374
1.72E-05 0.163207 4.173073

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.086801 -0.026276 -0.068295
-1.72E-05 -0.174349 -4.043200
0.25000 -0.086801 -0.026276 -0.068295
-1.72E-05 -0.089960 -4.075668
0.50000 -0.086801 -0.026276 -0.068295
-1.72E-05 -0.012529 -4.108137
0.75000 -0.086801 -0.026276 -0.068295
-1.72E-05 -0.062316 -4.140605
1.00000 -0.086801 -0.026276 -0.068295
-1.72E-05 -0.118383 -4.173073

ELEM 472 ========== LENGTH = 4.943618

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.001081 0.000190 0.000652
-7.99E-07 0.001762 0.051094
0.25000 0.001081 0.000190 0.000652
-7.99E-07 0.000957 0.050859
0.50000 0.001081 0.000190 0.000652
-7.99E-07 0.000152 0.050625
0.75000 0.001081 0.000190 0.000652
-7.99E-07 -0.000653 0.050390
1.00000 0.001081 0.000190 0.000652
-7.99E-07 -0.001459 0.050155

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.005076 -0.000857 -0.003602
3.72E-06 -0.009619 -0.238113
0.25000 -0.005076 -0.000857 -0.003602
3.72E-06 -0.005168 -0.237054
0.50000 -0.005076 -0.000857 -0.003602
3.72E-06 -0.000716 -0.235995
0.75000 -0.005076 -0.000857 -0.003602
3.72E-06 0.003735 -0.234936
1.00000 -0.005076 -0.000857 -0.003602
3.72E-06 0.008186 -0.233877

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.001927 -0.006697 0.018104
-3.35E-06 0.047455 0.747370
0.25000 0.001927 -0.006697 0.018104
-3.35E-06 0.025080 0.755646
0.50000 0.001927 -0.006697 0.018104
-3.35E-06 0.002705 0.763922
0.75000 0.001927 -0.006697 0.018104
-3.35E-06 -0.019670 0.772199
1.00000 0.001927 -0.006697 0.018104
-3.35E-06 -0.042046 0.780475

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.004333 0.021642 -0.050386
6.49E-06 -0.133454 2.442135
0.25000 -0.004333 0.021642 -0.050386
6.49E-06 -0.071181 2.468882
0.50000 -0.004333 0.021642 -0.050386
6.49E-06 -0.008909 2.495629
0.75000 -0.004333 0.021642 -0.050386
6.49E-06 0.053364 2.522377
1.00000 -0.004333 0.021642 -0.050386
6.49E-06 0.115636 2.549124
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1504.OUT

Page 894
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.084168 -0.016339 -0.023918
-2.23E-05 -0.047529 3.371014
0.25000 0.084168 -0.016339 -0.023918
-2.23E-05 -0.017968 3.391208
0.50000 0.084168 -0.016339 -0.023918
-2.23E-05 0.011592 3.411402
0.75000 0.084168 -0.016339 -0.023918
-2.23E-05 0.041153 3.431596
1.00000 0.084168 -0.016339 -0.023918
-2.23E-05 0.070713 3.451790

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.077767 0.002061 0.059150
1.62E-05 0.141384 4.169478
0.25000 -0.077767 0.002061 0.059150
1.62E-05 0.068280 -1.491778
0.50000 -0.077767 0.002061 0.059150
1.62E-05 -0.004824 -1.494325
0.75000 -0.077767 0.002061 0.059150
1.62E-05 -0.077927 -1.496872
1.00000 -0.077767 0.002061 0.059150
1.62E-05 -0.151031 -1.499419

LOAD -2N+1- ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.087176 -0.022846 -0.005162
-2.64E-05 0.001689 4.169478
0.25000 0.087176 -0.022846 -0.005162
-2.64E-05 0.008069 4.197714
0.50000 0.087176 -0.022846 -0.005162
-2.64E-05 0.014449 4.225949
0.75000 0.087176 -0.022846 -0.005162
-2.64E-05 0.020829 4.254185
1.00000 0.087176 -0.022846 -0.005162
-2.64E-05 0.027209 4.282420

LOAD -2N+2- ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.087176 0.022846 0.005162
2.64E-05 -0.001689 -4.169478
0.25000 -0.087176 0.022846 0.005162
2.64E-05 -0.008069 -4.197714
0.50000 -0.087176 0.022846 0.005162
2.64E-05 -0.014449 -4.225949
0.75000 -0.087176 0.022846 0.005162
2.64E-05 -0.020829 -4.254185
1.00000 -0.087176 0.022846 0.005162
2.64E-05 -0.027209 -4.282420

COMB SETTLE ---------- MAX

REL DIST P V2 V3
T M2 M3
0.00000 0.087176 0.022846 0.059150
2.64E-05 0.141384 4.169478
0.25000 0.087176 0.022846 0.059150
2.64E-05 0.068280 4.197714
0.50000 0.087176 0.022846 0.059150
2.64E-05 0.014449 4.225949
0.75000 0.087176 0.022846 0.059150
2.64E-05 0.053364 4.254185
1.00000 0.087176 0.022846 0.059150
2.64E-05 0.115636 4.282420

COMB SETTLE ---------- MIN

REL DIST P V2 V3
T M2 M3
0.00000 -0.087176 -0.022846 -0.050386
-2.64E-05 -0.133454 -4.169478
0.25000 -0.087176 -0.022846 -0.050386
-2.64E-05 -0.071181 -4.197714
0.50000 -0.087176 -0.022846 -0.050386
-2.64E-05 -0.014449 -4.225949
0.75000 -0.087176 -0.022846 -0.050386
-2.64E-05 -0.077927 -4.254185
1.00000 -0.087176 -0.022846 -0.050386
-2.64E-05 -0.151031 -4.282420
Program SAP2000 Nonlinear Version 7.42
File:하행S11~S1504.OUT

Page 895
< UNEQUAL SETTLEMENT >

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 473 ========== LENGTH = 4.942653

LOAD -A1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.000736 0.000899 0.000373
-2.59E-07 0.001057 0.049963
0.25000 0.000736 0.000899 0.000373
-2.59E-07 0.000597 0.049553
0.50000 0.000736 0.000899 0.000373
-2.59E-07 0.000136 0.047742
0.75000 0.000736 0.000899 0.000373
-2.59E-07 -0.000324 0.046631
1.00000 0.000736 0.000899 0.000373
-2.59E-07 -0.000785 0.045520

LOAD -P1 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.003403 -0.004160 -0.002264
1.21E-06 -0.006237 -0.232823
0.25000 -0.003403 -0.004160 -0.002264
1.21E-06 -0.003439 -0.227683
0.50000 -0.003403 -0.004160 -0.002264
1.21E-06 -0.000641 -0.222543
0.75000 -0.003403 -0.004160 -0.002264
1.21E-06 0.002156 -0.217403
1.00000 -0.003403 -0.004160 -0.002264
1.21E-06 0.004954 -0.212262

LOAD -P2 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.003005 0.016555 0.011593
-2.95E-06 0.031177 0.776166
0.25000 0.003005 0.016555 0.011593
-2.95E-06 0.016852 0.755711
0.50000 0.003005 0.016555 0.011593
-2.95E-06 0.002527 0.735255
0.75000 0.003005 0.016555 0.011593
-2.95E-06 -0.011798 0.714799
1.00000 0.003005 0.016555 0.011593
-2.95E-06 -0.026123 0.694343

LOAD -P3 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.010479 -0.056441 -0.028556
9.88E-06 -0.078919 -2.538068
0.25000 -0.010479 -0.056441 -0.028556
9.88E-06 -0.043633 -2.468325
0.50000 -0.010479 -0.056441 -0.028556
9.88E-06 -0.008348 -2.398583
0.75000 -0.010479 -0.056441 -0.028556
9.88E-06 0.026937 -2.328841
1.00000 -0.010479 -0.056441 -0.028556
9.88E-06 0.062222 -2.259098

LOAD -P4 ----------

REL DIST P V2 V3
T M2 M3
0.00000 0.082960 0.080794 -0.051760
-2.33E-05 -0.116958 3.463501
0.25000 0.082960 0.080794 -0.051760
-2.33E-05 -0.053000 3.363667
0.50000 0.082960 0.080794 -0.051760
-2.33E-05 0.010957 3.263833
0.75000 0.082960 0.080794 -0.051760
-2.33E-05 0.074915 3.163998
1.00000 0.082960 0.080794 -0.051760
-2.33E-05 0.138872 3.064164

LOAD -P5 ----------

REL DIST P V2 V3
T M2 M3
0.00000 -0.072820 -0.037646 0.070614
1.55E-05 0.169879 -1.518740
0.25000 -0.072820 -0.037646 0.070614

```
 1.55E-05     0.082624    -1.472222
0.50000    -0.072820    -0.037646     0.070614
 1.55E-05    -0.004631    -1.425703
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 896

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P             V2             V3
     T            M2             M3
0.75000    -0.072820    -0.037646     0.070614
 1.55E-05    -0.091886    -1.379185
1.00000    -0.072820    -0.037646     0.070614
 1.55E-05    -0.179141    -1.332667

LOAD   -2N+1- --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.086702     0.098248    -0.039794
-2.65E-05    -0.084724     4.289631
0.25000     0.086702     0.098248    -0.039794
-2.65E-05    -0.035552     4.168230
0.50000     0.086702     0.098248    -0.039794
-2.65E-05     0.013621     4.046829
0.75000     0.086702     0.098248    -0.039794
-2.65E-05     0.062793     3.925428
1.00000     0.086702     0.098248    -0.039794
-2.65E-05     0.111965     3.804027

LOAD   -2N+2- --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.086702    -0.098248     0.039794
 2.65E-05     0.084724    -4.289631
0.25000    -0.086702    -0.098248     0.039794
 2.65E-05     0.035552    -4.168230
0.50000    -0.086702    -0.098248     0.039794
 2.65E-05    -0.013621    -4.046829
0.75000    -0.086702    -0.098248     0.039794
 2.65E-05    -0.062793    -3.925428
1.00000    -0.086702    -0.098248     0.039794
 2.65E-05    -0.111965    -3.804027

COMB   SETTLE ---------- MAX

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.086702     0.098248     0.070614
2.65E-05     0.169879     4.289631
0.25000     0.086702     0.098248     0.070614
2.65E-05     0.082624     4.168230
0.50000     0.086702     0.098248     0.070614
2.65E-05     0.013621     4.046829
0.75000     0.086702     0.098248     0.070614
2.65E-05     0.074915     3.925428
1.00000     0.086702     0.098248     0.070614
2.65E-05     0.138872     3.804027

COMB   SETTLE ---------- MIN

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.086702    -0.098248    -0.051760
-2.65E-05    -0.116958    -4.289631
0.25000    -0.086702    -0.098248    -0.051760
-2.65E-05    -0.053000    -4.168230
0.50000    -0.086702    -0.098248    -0.051760
-2.65E-05    -0.013621    -4.046829
0.75000    -0.086702    -0.098248    -0.051760
-2.65E-05    -0.091886    -3.925428
1.00000    -0.086702    -0.098248    -0.051760
-2.65E-05    -0.179141    -3.804027

ELEM      474 ================== LENGTH
=    4.942894

LOAD      -A1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.000972     0.000725     0.000117
-1.24E-09     0.000421     0.045470
0.25000     0.000972     0.000725     0.000117
-1.24E-09     0.000276     0.044574
0.50000     0.000972     0.000725     0.000117
-1.24E-09     0.000131     0.043678
0.75000     0.000972     0.000725     0.000117
-1.24E-09    -1.46E-05     0.042782
1.00000     0.000972     0.000725     0.000117
-1.24E-09    -0.000160     0.041886
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 897

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.004466    -0.003350    -0.001042
 9.13E-09    -0.003189    -0.211876
0.25000    -0.004466    -0.003350    -0.001042
 9.13E-09    -0.001902    -0.207735
0.50000    -0.004466    -0.003350    -0.001042
 9.13E-09    -0.000615    -0.203595
0.75000    -0.004466    -0.003350    -0.001042
 9.13E-09     0.000673    -0.199455
1.00000    -0.004466    -0.003350    -0.001042
 9.13E-09     0.001960    -0.195315

LOAD      -P2 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.003214     0.009887     0.005660
-2.10E-06     0.016256     0.691748
0.25000     0.003214     0.009887     0.005660
-2.10E-06     0.009262     0.679531
0.50000     0.003214     0.009887     0.005660
-2.10E-06     0.002267     0.667314
0.75000     0.003214     0.009887     0.005660
-2.10E-06    -0.004728     0.655096
1.00000     0.003214     0.009887     0.005660
-2.10E-06    -0.011722     0.642879

LOAD      -P3 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.010767    -0.033037    -0.008679
 8.94E-06    -0.028892    -2.253254
0.25000    -0.010767    -0.033037    -0.008679
 8.94E-06    -0.018167    -2.212429
0.50000    -0.010767    -0.033037    -0.008679
 8.94E-06    -0.007442    -2.171605
0.75000    -0.010767    -0.033037    -0.008679
 8.94E-06     0.003283    -2.130780
1.00000    -0.010767    -0.033037    -0.008679
 8.94E-06     0.014009    -2.089955

LOAD      -P4 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.079613     0.051330    -0.077134
-2.09E-05    -0.180830     3.083045
0.25000     0.079613     0.051330    -0.077134
-2.09E-05    -0.085514     3.019615
0.50000     0.079613     0.051330    -0.077134
-2.09E-05     0.009802     2.956185
0.75000     0.079613     0.051330    -0.077134
-2.09E-05     0.105118     2.892755
1.00000     0.079613     0.051330    -0.077134
-2.09E-05     0.200434     2.829325

LOAD      -P5 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.068566    -0.025555     0.081077
 1.40E-05     0.196235    -1.355133
0.25000    -0.068566    -0.025555     0.081077
 1.40E-05     0.096046    -1.323555
0.50000    -0.068566    -0.025555     0.081077
 1.40E-05    -0.004143    -1.291976
0.75000    -0.068566    -0.025555     0.081077
 1.40E-05    -0.104332    -1.260398
1.00000    -0.068566    -0.025555     0.081077
 1.40E-05    -0.204520    -1.228820

LOAD   -2N+1- --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.083799     0.061942    -0.071356
-2.30E-05    -0.164153     3.820263
0.25000     0.083799     0.061942    -0.071356
-2.30E-05    -0.075977     3.743719
0.50000     0.083799     0.061942    -0.071356
-2.30E-05     0.012199     3.667176
0.75000     0.083799     0.061942    -0.071356
-2.30E-05     0.100375     3.590633
1.00000     0.083799     0.061942    -0.071356
-2.30E-05     0.188552     3.514090
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 898

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD   -2N+2- --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.083799    -0.061942     0.071356
 2.30E-05     0.164153    -3.820263
0.25000    -0.083799    -0.061942     0.071356
 2.30E-05     0.075977    -3.743719
0.50000    -0.083799    -0.061942     0.071356
 2.30E-05    -0.012199    -3.667176
0.75000    -0.083799    -0.061942     0.071356
 2.30E-05    -0.100375    -3.590633
1.00000    -0.083799    -0.061942     0.071356
 2.30E-05    -0.188552    -3.514090

COMB   SETTLE ---------- MAX

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.083799     0.061942     0.081077
2.30E-05     0.196235     3.820263
0.25000     0.083799     0.061942     0.081077
2.30E-05     0.096046     3.743719
0.50000     0.083799     0.061942     0.081077
2.30E-05     0.012199     3.667176
0.75000     0.083799     0.061942     0.081077
2.30E-05     0.105118     3.590633
1.00000     0.083799     0.061942     0.081077
2.30E-05     0.200434     3.514090

COMB   SETTLE ---------- MIN

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.083799    -0.061942    -0.077134
-2.30E-05    -0.180830    -3.820263
0.25000    -0.083799    -0.061942    -0.077134
-2.30E-05    -0.085514    -3.743719
0.50000    -0.083799    -0.061942    -0.077134
-2.30E-05    -0.012199    -3.667176
0.75000    -0.083799    -0.061942    -0.077134
-2.30E-05    -0.104332    -3.590633
1.00000    -0.083799    -0.061942    -0.077134
-2.30E-05    -0.204520    -3.514090

ELEM      475 ================== LENGTH
=    4.943165

LOAD      -A1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.001206     0.001347    -0.000145
 8.90E-08    -0.000237     0.041905
0.25000     0.001206     0.001347    -0.000145
 8.90E-08    -5.72E-05     0.040241
0.50000     0.001206     0.001347    -0.000145
 8.90E-08     0.000122     0.038576
0.75000     0.001206     0.001347    -0.000145
 8.90E-08     0.000301     0.036912
1.00000     0.001206     0.001347    -0.000145
 8.90E-08     0.000481     0.035248

LOAD      -P1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.005538    -0.006250     0.000210
-4.11E-07     5.38E-05    -0.195260
0.25000    -0.005538    -0.006250     0.000210
-4.11E-07    -0.000314    -0.187537
0.50000    -0.005538    -0.006250     0.000210
-4.11E-07    -0.000574    -0.179814
0.75000    -0.005538    -0.006250     0.000210
-4.11E-07    -0.000834    -0.172091
1.00000    -0.005538    -0.006250     0.000210
-4.11E-07    -0.001094    -0.164368

LOAD      -P2 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.003258     0.020635     0.000467
-7.69E-07     0.003141     0.641957
0.25000     0.003258     0.020635     0.000467
-7.69E-07     0.002564     0.616457
0.50000     0.003258     0.020635     0.000467
-7.69E-07     0.001988     0.590956
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 899

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P             V2             V3
     T            M2             M3
0.75000     0.003258     0.020635     0.000467
-7.69E-07     0.001411     0.565456
0.25000     0.003258     0.020635     0.000467
-7.69E-07     0.000834     0.539955

LOAD      -P3 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.010091    -0.068010     0.008554
 5.08E-06     0.014650    -2.089753
0.25000    -0.010091    -0.068010     0.008554
 5.08E-06     0.004079    -2.005707
0.50000    -0.010091    -0.068010     0.008554
 5.08E-06    -0.006492    -1.921661
0.75000    -0.010091    -0.068010     0.008554
 5.08E-06    -0.017064    -1.837615
1.00000    -0.010091    -0.068010     0.008554
 5.08E-06    -0.027635    -1.753569

LOAD      -P4 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.074658     0.097800    -0.099436
-1.61E-05    -0.237125     2.855381
0.25000     0.074658     0.097800    -0.099436
-1.61E-05    -0.114242     2.734521
0.50000     0.074658     0.097800    -0.099436
-1.61E-05     0.008640     2.613661
0.75000     0.074658     0.097800    -0.099436
-1.61E-05     0.131523     2.492800
1.00000     0.074658     0.097800    -0.099436
-1.61E-05     0.254405     2.371940

LOAD      -P5 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.063492    -0.045522     0.090350
 1.21E-05     0.219624    -1.254230
0.25000    -0.063492    -0.045522     0.090350
 1.21E-05     0.107970    -1.197974
0.50000    -0.063492    -0.045522     0.090350
 1.21E-05    -0.003684    -1.141718
0.75000    -0.063492    -0.045522     0.090350
 1.21E-05    -0.115337    -1.085462
1.00000    -0.063492    -0.045522     0.090350
 1.21E-05    -0.226991    -1.029207

LOAD   -2N+1- --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.079121     0.119781    -0.099115
-1.67E-05     0.234220     3.539243
0.25000     0.079121     0.119781    -0.099115
-1.67E-05    -0.111735     3.391218
0.50000     0.079121     0.119781    -0.099115
-1.67E-05     0.010750     3.243193
0.75000     0.079121     0.119781    -0.099115
-1.67E-05     0.133235     3.095168
1.00000     0.079121     0.119781    -0.099115
-1.67E-05     0.255720     2.947143

LOAD   -2N+2- --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.079121    -0.119781     0.099115
 1.67E-05    -0.234220    -3.539243
0.25000    -0.079121    -0.119781     0.099115
 1.67E-05    -0.111735    -3.391218
0.50000    -0.079121    -0.119781     0.099115
 1.67E-05    -0.010750    -3.243193
0.75000    -0.079121    -0.119781     0.099115
 1.67E-05    -0.133235    -3.095168
1.00000    -0.079121    -0.119781     0.099115
 1.67E-05    -0.255720    -2.947143

COMB   SETTLE ---------- MAX

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.079121     0.119781     0.099115
1.67E-05     0.234220     3.539243
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 900

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

REL DIST          P             V2             V3
     T            M2             M3
0.25000     0.079121     0.119781     0.099115
1.67E-05     0.111735     3.391218
0.50000     0.079121     0.119781     0.099115
1.67E-05     0.010750     3.243193
0.75000     0.079121     0.119781     0.099115
1.67E-05     0.133235     3.095168
1.00000     0.079121     0.119781     0.099115
1.67E-05     0.255720     2.947143

COMB   SETTLE ---------- MIN

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.079121    -0.119781    -0.099436
-1.67E-05    -0.237125    -3.539243
0.25000    -0.079121    -0.119781    -0.099436
-1.67E-05    -0.114242    -3.391218
0.50000    -0.079121    -0.119781    -0.099436
-1.67E-05    -0.010750    -3.243193
0.75000    -0.079121    -0.119781    -0.099436
-1.67E-05    -0.133235    -3.095168
1.00000    -0.079121    -0.119781    -0.099436
-1.67E-05    -0.255720    -2.947143

ELEM      476 ================== LENGTH
=    4.943656

LOAD      -A1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.001214     0.001359    -0.000393
 9.28E-08    -0.000868     0.035329
0.25000     0.001214     0.001359    -0.000393
 9.28E-08    -0.000382     0.033649
0.50000     0.001214     0.001359    -0.000393
 9.28E-08     0.000103     0.031969
0.75000     0.001214     0.001359    -0.000393
 9.28E-08     0.000589     0.030289
1.00000     0.001214     0.001359    -0.000393
 9.28E-08     0.001075     0.028609

LOAD      -P1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.005579    -0.006310     0.001389
-4.30E-07     0.002947    -0.164609
0.25000    -0.005579    -0.006310     0.001389
-4.30E-07     0.001230    -0.156811
0.50000    -0.005579    -0.006310     0.001389
-4.30E-07    -0.000486    -0.149013
0.75000    -0.005579    -0.006310     0.001389
-4.30E-07    -0.002203    -0.141214
1.00000    -0.005579    -0.006310     0.001389
-4.30E-07    -0.003919    -0.133416

LOAD      -P2 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.003329     0.020903    -0.003884
 5.10E-07    -0.007977     0.540485
0.25000     0.003329     0.020903    -0.003884
 5.10E-07    -0.003177     0.514650
0.50000     0.003329     0.020903    -0.003884
 5.10E-07     0.001623     0.488815
0.75000     0.003329     0.020903    -0.003884
 5.10E-07     0.006422     0.462981
1.00000     0.003329     0.020903    -0.003884
 5.10E-07     0.011222     0.437146

LOAD      -P3 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.010109    -0.068719     0.022864
 7.60E-07     0.051240    -1.758308
0.25000    -0.010109    -0.068719     0.022864
 7.60E-07     0.022982    -1.673377
0.50000    -0.010109    -0.068719     0.022864
 7.60E-07    -0.005276    -1.588446
0.75000    -0.010109    -0.068719     0.022864
 7.60E-07    -0.033535    -1.503515
1.00000    -0.010109    -0.068719     0.022864
 7.60E-07    -0.061793    -1.418583
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 901

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.067817     0.098530    -0.118106
 -1.13E-05    -0.284942     2.404320
0.25000     0.067817     0.098530    -0.118106
 -1.13E-05    -0.138974     2.282545
0.50000     0.067817     0.098530    -0.118106
 -1.13E-05     0.006995     2.160770
0.75000     0.067817     0.098530    -0.118106
 -1.13E-05     0.152964     2.038994
1.00000     0.067817     0.098530    -0.118106
 -1.13E-05     0.298933     1.917219

LOAD      -P5 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.056672    -0.045764     0.098129
 1.03E-05     0.239600    -1.057215
0.25000    -0.056672    -0.045764     0.098129
 1.03E-05     0.118320    -1.000655
0.50000    -0.056672    -0.045764     0.098129
 1.03E-05    -0.002959    -0.944095
0.75000    -0.056672    -0.045764     0.098129
 1.03E-05    -0.124238    -0.887535
1.00000    -0.056672    -0.045764     0.098129
 1.03E-05    -0.245517    -0.830975

LOAD   -2N+1- --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.072360     0.120793    -0.122382
-1.07E-05    -0.293787     2.980133
0.25000     0.072360     0.120793    -0.122382
-1.07E-05    -0.142533     2.830843
0.50000     0.072360     0.120793    -0.122382
-1.07E-05     0.008721     2.681554
0.75000     0.072360     0.120793    -0.122382
-1.07E-05     0.159976     2.532264
1.00000     0.072360     0.120793    -0.122382
-1.07E-05     0.311230     2.382974

LOAD   -2N+2- --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.072360    -0.120793     0.122382
 1.07E-05     0.293787    -2.980133
0.25000    -0.072360    -0.120793     0.122382
 1.07E-05     0.142533    -2.830843
0.50000    -0.072360    -0.120793     0.122382
 1.07E-05     0.008721    -2.681554
0.75000    -0.072360    -0.120793     0.122382
 1.07E-05    -0.159976    -2.532264
1.00000    -0.072360    -0.120793     0.122382
 1.07E-05    -0.311230    -2.382974

COMB   SETTLE ---------- MAX

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.072360     0.120793     0.122382
1.07E-05     0.293787     2.980133
0.25000     0.072360     0.120793     0.122382
1.07E-05     0.142533     2.830843
0.50000     0.072360     0.120793     0.122382
1.07E-05     0.008721     2.681554
0.75000     0.072360     0.120793     0.122382
1.07E-05     0.159976     2.532264
1.00000     0.072360     0.120793     0.122382
1.07E-05     0.311230     2.382974

COMB   SETTLE ---------- MIN

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.072360    -0.120793    -0.122382
-1.13E-05    -0.293787    -2.980133
0.25000    -0.072360    -0.120793    -0.122382
-1.13E-05    -0.142533    -2.830843
0.50000    -0.072360    -0.120793    -0.122382
-1.13E-05    -0.008721    -2.681554
0.75000    -0.072360    -0.120793    -0.122382
-1.13E-05    -0.159976    -2.532264
1.00000    -0.072360    -0.120793    -0.122382
-1.13E-05    -0.311230    -2.382974
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                 902

F R A M E   E L E M E N T   I N T E R N A L   F O R C E S

ELEM      477 ================== LENGTH
=    4.942285

LOAD      -A1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.000962     0.001365    -0.000595
 6.65E-08    -0.001391     0.028747
0.25000     0.000962     0.001365    -0.000595
 6.65E-08    -0.000655     0.027061
0.50000     0.000962     0.001365    -0.000595
 6.65E-08     8.07E-05     0.025374
0.75000     0.000962     0.001365    -0.000595
 6.65E-08     0.000816     0.023688
1.00000     0.000962     0.001365    -0.000595
 6.65E-08     0.001552     0.022001

LOAD      -P1 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.004414    -0.006337     0.002352
-3.09E-07     0.005433    -0.133933
0.25000    -0.004414    -0.006337     0.002352
-3.09E-07     0.002526    -0.126103
0.50000    -0.004414    -0.006337     0.002352
-3.09E-07    -0.000380    -0.118273
0.75000    -0.004414    -0.006337     0.002352
-3.09E-07    -0.003286    -0.110443
1.00000    -0.004414    -0.006337     0.002352
-3.09E-07    -0.006192    -0.102613

LOAD      -P2 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.003206     0.021172    -0.007332
 1.63E-06    -0.016848     0.438843
0.25000     0.003206     0.021172    -0.007332
 1.63E-06    -0.007788     0.412684
0.50000     0.003206     0.021172    -0.007332
 1.63E-06     0.001271     0.386525
0.75000     0.003206     0.021172    -0.007332
 1.63E-06     0.010331     0.360365
1.00000     0.003206     0.021172    -0.007332
 1.63E-06     0.019391     0.334206

LOAD      -P3 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000    -0.010345    -0.069529     0.034178
 -3.21E-06     0.080326    -1.427235
0.25000    -0.010345    -0.069529     0.034178
 -3.21E-06     0.038097    -1.341327
0.50000    -0.010345    -0.069529     0.034178
 -3.21E-06    -0.004133    -1.255419
0.75000    -0.010345    -0.069529     0.034178
 -3.21E-06    -0.046363    -1.169511
1.00000    -0.010345    -0.069529     0.034178
 -3.21E-06    -0.088593    -1.083603

LOAD      -P4 --------------------

REL DIST          P             V2             V3
     T            M2             M3
0.00000     0.058488     0.099309    -0.132837
 -7.24E-06    -0.322797     1.954611
0.25000     0.058488     0.099309    -0.132837
 -7.24E-06    -0.158667     1.831907
0.50000     0.058488     0.099309    -0.132837
 -7.24E-06     0.005463     1.709204
```

0.75000	0.058488	0.099309	-0.132837
-7.24E-06	0.169593	1.586500	
1.00000	0.058488	0.099309	-0.132837
-7.24E-06	0.333723	1.463797	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.047898	-0.045980	0.104235
9.07E-06	0.252277	-0.861033	
0.25000	-0.047898	-0.045980	0.104235
9.07E-06	0.126487	-0.804222	
0.50000	-0.047898	-0.045980	0.104235
9.07E-06	-0.002302	-0.747411	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	-0.047898	-0.045980	0.104235
9.07E-06	-0.131091	-0.690599	
1.00000	-0.047898	-0.045980	0.104235
9.07E-06	-0.259880	-0.633788	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.062656	0.121846	-0.140765
-5.55E-06	-0.341036	2.422201	
0.25000	0.062656	0.121846	-0.140765
-5.55E-06	-0.167110	2.271652	
0.50000	0.062656	0.121846	-0.140765
-5.55E-06	0.006815	2.121103	
0.75000	0.062656	0.121846	-0.140765
-5.55E-06	0.180740	1.970553	
1.00000	0.062656	0.121846	-0.140765
-5.55E-06	0.354665	1.820004	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.062656	-0.121846	0.140765
5.55E-06	0.341036	-2.422201	
0.25000	-0.062656	-0.121846	0.140765
5.55E-06	0.167110	-2.271652	
0.50000	-0.062656	-0.121846	0.140765
5.55E-06	-0.006815	-2.121103	
0.75000	-0.062656	-0.121846	0.140765
5.55E-06	-0.180740	-1.970553	
1.00000	-0.062656	-0.121846	0.140765
5.55E-06	-0.354665	-1.820004	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.062656	0.121846	0.140765
9.07E-06	0.341036	2.422201	
0.25000	0.062656	0.121846	0.140765
9.07E-06	0.167110	2.271652	
0.50000	0.062656	0.121846	0.140765
9.07E-06	0.006815	2.121103	
0.75000	0.062656	0.121846	0.140765
9.07E-06	0.180740	1.970553	
1.00000	0.062656	0.121846	0.140765
9.07E-06	0.354665	1.820004	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.062656	-0.121846	-0.140765
-7.24E-06	-0.341036	-2.422201	
0.25000	-0.062656	-0.121846	-0.140765
-7.24E-06	-0.167110	-2.271652	
0.50000	-0.062656	-0.121846	-0.140765
-7.24E-06	-0.006815	-2.121103	
0.75000	-0.062656	-0.121846	-0.140765
-7.24E-06	-0.180740	-1.970553	
1.00000	-0.062656	-0.121846	-0.140765
-7.24E-06	-0.354665	-1.820004	

ELEM 478 ========== LENGTH = 4.943913

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.000438	0.001302	-0.000723
6.17E-08	-0.001736	0.022209	
0.25000	0.000438	0.001302	-0.000723
6.17E-08	-0.000842	0.020600	
0.50000	0.000438	0.001302	-0.000723
6.17E-08	5.22E-05	0.018991	
0.75000	0.000438	0.001302	-0.000723
6.17E-08	0.001946	0.017381	
1.00000	0.000438	0.001302	-0.000723
6.17E-08	0.001840	0.015772	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.001984	-0.006045	0.002964
-2.87E-07	0.007081	-0.103459	
0.25000	-0.001984	-0.006045	0.002964
-2.87E-07	0.003417	-0.095987	
0.50000	-0.001984	-0.006045	0.002964
-2.87E-07	-0.000246	-0.088515	
0.75000	-0.001984	-0.006045	0.002964
-2.87E-07	-0.003910	-0.081043	
1.00000	-0.001984	-0.006045	0.002964
-2.87E-07	-0.007574	-0.073571	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.002706	0.020881	-0.009873
2.64E-06	-0.023497	0.336774	
0.25000	0.002706	0.020881	-0.009873
2.64E-06	-0.011294	0.310966	
0.50000	0.002706	0.020881	-0.009873
2.64E-06	0.000910	0.285157	
0.75000	0.002706	0.020881	-0.009873
2.64E-06	0.013113	0.259348	
1.00000	0.002706	0.020881	-0.009873
2.64E-06	0.025316	0.233540	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.010479	-0.068757	0.042572
-6.64E-06	0.102264	-1.094972	
0.25000	-0.010479	-0.068757	0.042572
-6.64E-06	0.049645	-1.009990	
0.50000	-0.010479	-0.068757	0.042572
-6.64E-06	-0.002973	-0.925008	
0.75000	-0.010479	-0.068757	0.042572
-6.64E-06	-0.055592	-0.840026	
1.00000	-0.010479	-0.068757	0.042572
-6.64E-06	-0.108211	-0.755045	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.047613	0.097971	-0.143250
-4.15E-06	-0.350301	1.504841	
0.25000	0.047613	0.097971	-0.143250
-4.15E-06	-0.173247	1.383751	
0.50000	0.047613	0.097971	-0.143250
-4.15E-06	0.003806	1.262661	
0.75000	0.047613	0.097971	-0.143250
-4.15E-06	0.180860	1.141570	
1.00000	0.047613	0.097971	-0.143250
-4.15E-06	0.357913	1.020480	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.038294	-0.045352	0.108310
8.37E-06	0.266188	-0.665394	
0.25000	-0.038294	-0.045352	0.108310
8.37E-06	0.132320	-0.609340	
0.50000	-0.038294	-0.045352	0.108310
8.37E-06	-0.001548	-0.553285	
0.75000	-0.038294	-0.045352	0.108310
8.37E-06	-0.135417	-0.497231	
1.00000	-0.038294	-0.045352	0.108310
8.37E-06	-0.269285	-0.441176	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.050757	0.120154	-0.153846
-1.45E-06	-0.375533	1.863825	
0.25000	0.050757	0.120154	-0.153846
-1.45E-06	-0.185382	1.715316	
0.50000	0.050757	0.120154	-0.153846
-1.45E-06	0.004768	1.566808	
0.75000	0.050757	0.120154	-0.153846
-1.45E-06	0.194919	1.418300	
1.00000	0.050757	0.120154	-0.153846
-1.45E-06	0.385069	1.269792	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.050757	-0.120154	0.153846
1.45E-06	0.375533	-1.863825	
0.25000	-0.050757	-0.120154	0.153846
1.45E-06	0.185382	-1.715316	
0.50000	-0.050757	-0.120154	0.153846
1.45E-06	-0.004768	-1.566808	
0.75000	-0.050757	-0.120154	0.153846
1.45E-06	-0.194919	-1.418300	
1.00000	-0.050757	-0.120154	0.153846
1.45E-06	-0.385069	-1.269792	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.050757	0.120154	0.153846
8.37E-06	0.375533	1.863825	
0.25000	0.050757	0.120154	0.153846
8.37E-06	0.185382	1.715316	
0.50000	0.050757	0.120154	0.153846
8.37E-06	0.004768	1.566808	
0.75000	0.050757	0.120154	0.153846
8.37E-06	0.194919	1.418300	
1.00000	0.050757	0.120154	0.153846
8.37E-06	0.385069	1.269792	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.050757	-0.120154	-0.153846
-6.64E-06	-0.375533	-1.863825	
0.25000	-0.050757	-0.120154	-0.153846
-6.64E-06	-0.185382	-1.715316	
0.50000	-0.050757	-0.120154	-0.153846
-6.64E-06	-0.004768	-1.566808	
0.75000	-0.050757	-0.120154	-0.153846
-6.64E-06	-0.194919	-1.418300	
1.00000	-0.050757	-0.120154	-0.153846
-6.64E-06	-0.385069	-1.269792	

ELEM 479 ========== LENGTH = 4.942677

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000284	0.000904	-0.000762
1.97E-07	-0.001854	0.015975	
0.25000	-0.000284	0.000904	-0.000762
1.97E-07	-0.000912	0.014858	
0.50000	-0.000284	0.000904	-0.000762
1.97E-07	2.93E-05	0.013741	
0.75000	-0.000284	0.000904	-0.000762
1.97E-07	0.000971	0.012624	
1.00000	-0.000284	0.000904	-0.000762
1.97E-07	0.001912	0.011507	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.001361	-0.004191	0.003153
-9.18E-07	0.007657	-0.074400	
0.25000	0.001361	-0.004191	0.003153
-9.18E-07	0.003761	-0.066220	
0.50000	0.001361	-0.004191	0.003153
-9.18E-07	-0.000135	-0.064041	
0.75000	0.001361	-0.004191	0.003153
-9.18E-07	-0.004032	-0.058862	
1.00000	0.001361	-0.004191	0.003153
-9.18E-07	-0.007928	-0.053683	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.001716	0.014934	-0.011741
3.64E-06	-0.028282	0.236762	
0.25000	0.001716	0.014934	-0.011741
3.64E-06	-0.013774	0.218309	
0.50000	0.001716	0.014934	-0.011741
3.64E-06	0.000734	0.199856	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.75000	0.001716	0.014934	-0.011741
3.64E-06	0.015241	0.181402	
1.00000	0.001716	0.014934	-0.011741
3.64E-06	0.029749	0.162949	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.009652	-0.049351	0.049088
-9.37E-06	0.118766	-0.768781	
0.25000	-0.009652	-0.049351	0.049088
-9.37E-06	0.058109	-0.707799	
0.50000	-0.009652	-0.049351	0.049088
-9.37E-06	-0.002548	-0.646817	
0.75000	-0.009652	-0.049351	0.049088
-9.37E-06	-0.063204	-0.585835	
1.00000	-0.009652	-0.049351	0.049088
-9.37E-06	-0.123861	-0.524854	

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.033458	0.070800	-0.151633
-1.04E-06	-0.370866	1.064170	
0.25000	0.033458	0.070800	-0.151633
-1.04E-06	-0.183498	0.976685	
0.50000	0.033458	0.070800	-0.151633
-1.04E-06	0.003871	0.889200	
0.75000	0.033458	0.070800	-0.151633
-1.04E-06	0.191240	0.801715	
1.00000	0.033458	0.070800	-0.151633
-1.04E-06	0.378609	0.714230	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.026600	-0.033095	0.111895
7.49E-06	0.274579	-0.473727	
0.25000	-0.026600	-0.033095	0.111895
7.49E-06	0.136314	-0.432833	
0.50000	-0.026600	-0.033095	0.111895
7.49E-06	-0.001951	-0.391939	
0.75000	-0.026600	-0.033095	0.111895
7.49E-06	-0.140216	-0.351044	
1.00000	-0.026600	-0.033095	0.111895
7.49E-06	-0.278481	-0.310150	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.034890	0.086638	-0.164136
2.80E-06	-0.401002	1.316908	
0.25000	0.034890	0.086638	-0.164136
2.80E-06	-0.198184	1.209853	
0.50000	0.034890	0.086638	-0.164136
2.80E-06	0.004634	1.102797	
0.75000	0.034890	0.086638	-0.164136
2.80E-06	0.207452	0.995742	
1.00000	0.034890	0.086638	-0.164136
2.80E-06	0.410270	0.888687	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.034890	-0.086638	0.164136
-2.80E-06	0.401002	-1.316908	
0.25000	-0.034890	-0.086638	0.164136
-2.80E-06	0.198184	-1.209853	
0.50000	-0.034890	-0.086638	0.164136
-2.80E-06	-0.004634	-1.102797	
0.75000	-0.034890	-0.086638	0.164136
-2.80E-06	-0.207452	-0.995742	
1.00000	-0.034890	-0.086638	0.164136
-2.80E-06	-0.410270	-0.888687	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.034890	0.086638	0.164136
7.49E-06	0.401002	1.316908	

F R A M E E L E M E N T I N T E R N A L F O R C E S

REL DIST	P	V2	V3
T	M2	M3	
0.25000	0.034890	0.086638	0.164136
7.49E-06	0.198184	1.209853	
0.50000	0.034890	0.086638	0.164136
7.49E-06	0.004634	1.102797	
0.75000	0.034890	0.086638	0.164136
7.49E-06	0.207452	0.995742	
1.00000	0.034890	0.086638	0.164136
7.49E-06	0.410270	0.888687	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.034890	-0.086638	-0.164136
-9.37E-06	-0.401002	-1.316908	
0.25000	-0.034890	-0.086638	-0.164136
-9.37E-06	-0.198184	-1.209853	
0.50000	-0.034890	-0.086638	-0.164136
-9.37E-06	-0.004634	-1.102797	
0.75000	-0.034890	-0.086638	-0.164136
-9.37E-06	-0.207452	-0.995742	
1.00000	-0.034890	-0.086638	-0.164136
-9.37E-06	-0.410270	-0.888687	

ELEM 480 ========== LENGTH = 4.942797

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000763	0.001275	-0.000604
7.88E-07	-0.001582	0.011722	
0.25000	-0.000763	0.001275	-0.000604
7.88E-07	-0.000835	0.010146	
0.50000	-0.000763	0.001275	-0.000604
7.88E-07	-8.82E-05	0.008570	
0.75000	-0.000763	0.001275	-0.000604
7.88E-07	0.000659	0.006994	
1.00000	-0.000763	0.001275	-0.000604
7.88E-07	0.001406	0.005418	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.003565	-0.005926	0.002487
-3.66E-06	0.006504	-0.054571	
0.25000	0.003565	-0.005926	0.002487
-3.66E-06	0.003431	-0.047248	
0.50000	0.003565	-0.005926	0.002487
-3.66E-06	0.000358	-0.039924	
0.75000	0.003565	-0.005926	0.002487
-3.66E-06	-0.002716	-0.032601	
1.00000	0.003565	-0.005926	0.002487
-3.66E-06	-0.005789	-0.025278	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.000485	0.024191	-0.010738
5.27E-06	-0.027987	0.166416	
0.25000	0.000485	0.024191	-0.010738
5.27E-06	-0.014718	0.136523	
0.50000	0.000485	0.024191	-0.010738
5.27E-06	-0.001450	0.106630	
0.75000	0.000485	0.024191	-0.010738
5.27E-06	0.011819	0.076738	
1.00000	0.000485	0.024191	-0.010738
5.27E-06	0.025088	0.046845	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.006579	-0.080942	0.044542
-1.20E-05	0.116298	-0.539254	
0.25000	-0.006579	-0.080942	0.044542
-1.20E-05	0.061257	-0.439234	
0.50000	-0.006579	-0.080942	0.044542
-1.20E-05	0.006217	-0.339214	
0.75000	-0.006579	-0.080942	0.044542
-1.20E-05	-0.048823	-0.239194	
1.00000	-0.006579	-0.080942	0.044542
-1.20E-05	-0.103864	-0.139174	

F R A M E E L E M E N T I N T E R N A L F O R C E S

LOAD -P4 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.016631	0.113930	-0.131239
4.47E-06	-0.344223	0.757652	
0.25000	0.016631	0.113930	-0.131239
4.47E-06	-0.182051	0.616869	
0.50000	0.016631	0.113930	-0.131239
4.47E-06	-0.019880	0.476085	
0.75000	0.016631	0.113930	-0.131239
4.47E-06	0.142292	0.335302	
1.00000	0.016631	0.113930	-0.131239
4.47E-06	0.304464	0.194519	

LOAD -P5 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.013340	-0.052528	0.095552
5.18E-06	0.250990	-0.341965	
0.25000	-0.013340	-0.052528	0.095552
5.18E-06	0.132916	-0.277056	
0.50000	-0.013340	-0.052528	0.095552
5.18E-06	0.014843	-0.212148	
0.75000	-0.013340	-0.052528	0.095552
5.18E-06	-0.103231	-0.147239	
1.00000	-0.013340	-0.052528	0.095552
5.18E-06	-0.221305	-0.082331	

LOAD -2N+1- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.016353	0.139396	-0.142581
1.05E-05	-0.373792	0.935789	
0.25000	0.016353	0.139396	-0.142581
1.05E-05	-0.197605	0.763537	
0.50000	0.016353	0.139396	-0.142581
1.05E-05	-0.021417	0.591286	
0.75000	0.016353	0.139396	-0.142581
1.05E-05	0.154770	0.419034	
1.00000	0.016353	0.139396	-0.142581
1.05E-05	0.330958	0.246782	

LOAD -2N+2- ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.016353	-0.139396	0.142581
-1.05E-05	0.373792	-0.935789	
0.25000	-0.016353	-0.139396	0.142581
-1.05E-05	0.197605	-0.763537	
0.50000	-0.016353	-0.139396	0.142581
-1.05E-05	0.021417	-0.591286	
0.75000	-0.016353	-0.139396	0.142581
-1.05E-05	-0.154770	-0.419034	
1.00000	-0.016353	-0.139396	0.142581
-1.05E-05	-0.330958	-0.246782	

COMB SETTLE ---------- MAX

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.016631	0.139396	0.142581
1.05E-05	0.373792	0.935789	
0.25000	0.016631	0.139396	0.142581
1.05E-05	0.197605	0.763537	
0.50000	0.016631	0.139396	0.142581
1.05E-05	0.021417	0.591286	
0.75000	0.016631	0.139396	0.142581
1.05E-05	0.154770	0.419034	
1.00000	0.016631	0.139396	0.142581
1.05E-05	0.330958	0.246782	

COMB SETTLE ---------- MIN

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.016353	-0.139396	-0.142581
-1.20E-05	-0.373792	-0.935789	
0.25000	-0.016353	-0.139396	-0.142581
-1.20E-05	-0.197605	-0.763537	
0.50000	-0.016353	-0.139396	-0.142581
-1.20E-05	-0.021417	-0.591286	
0.75000	-0.016353	-0.139396	-0.142581
-1.20E-05	-0.154770	-0.419034	
1.00000	-0.016353	-0.139396	-0.142581
-1.20E-05	-0.330958	-0.246782	

F R A M E E L E M E N T I N T E R N A L F O R C E S

ELEM 481 ========== LENGTH = 1.482588

LOAD -A1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.000445	0.004074	-0.005423
2.12E-06	-0.003871	0.005736	
0.25000	-0.000445	0.004074	-0.005423
2.12E-06	-0.001861	0.004227	
0.50000	-0.000445	0.004074	-0.005423
2.12E-06	0.000149	0.002717	
0.75000	-0.000445	0.004074	-0.005423
2.12E-06	0.002159	0.001207	
1.00000	-0.000445	0.004074	-0.005423
2.12E-06	0.004169	-0.000303	

LOAD -P1 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	0.002077	-0.018782	0.022100
-9.85E-06	0.015772	-0.026581	
0.25000	0.002077	-0.018782	0.022100
-9.85E-06	0.007580	-0.019619	
0.50000	0.002077	-0.018782	0.022100
-9.85E-06	-0.000611	-0.012658	
0.75000	0.002077	-0.018782	0.022100
-9.85E-06	-0.008803	-0.005696	
1.00000	0.002077	-0.018782	0.022100
-9.85E-06	-0.016994	0.001265	

LOAD -P2 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	8.79E-05	0.039054	-0.107342
8.90E-06	-0.076754	0.052951	
0.25000	8.79E-05	0.039054	-0.107342
8.90E-06	-0.036968	0.038476	
0.50000	8.79E-05	0.039054	-0.107342
8.90E-06	0.002819	0.024000	
0.75000	8.79E-05	0.039054	-0.107342
8.90E-06	0.042605	0.009525	
1.00000	8.79E-05	0.039054	-0.107342
8.90E-06	0.082391	-0.004950	

LOAD -P3 ----------

REL DIST	P	V2	V3
T	M2	M3	
0.00000	-0.002955	-0.124636	0.445290
-1.73E-05	0.315444	-0.164482	
0.25000	-0.002955	-0.124636	0.445290
-1.73E-05	0.153399	-0.118286	
0.50000	-0.002955	-0.124636	0.445290
-1.73E-05	-0.011647	-0.072090	
0.75000	-0.002955	-0.124636	0.445290
-1.73E-05	-0.176692	-0.025894	
1.00000	-0.002955	-0.124636	0.445290

```
-1.73E-05   -0.341738    0.020302

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.006744    0.220730   -1.284342
 1.31E-05   -0.918469    0.267841
0.25000    0.006744    0.220730   -1.284342
 1.31E-05   -0.442432    0.186028
0.50000    0.006744    0.220730   -1.284342
 1.31E-05   -0.033605    0.104215
0.75000    0.006744    0.220730   -1.284342
 1.31E-05    0.509643    0.022401
1.00000    0.006744    0.220730   -1.284342
 1.31E-05    0.985680   -0.059412

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.005509   -0.120440    0.929716
 3.04E-06    0.664878   -0.135465
0.25000   -0.005509   -0.120440    0.929716
 3.04E-06    0.320282   -0.090824
0.50000   -0.005509   -0.120440    0.929716
 3.04E-06   -0.024315   -0.046184
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<           UNEQUAL          SETTLEMENT          >
                                    910

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.75000   -0.005509   -0.120440    0.929716
 3.04E-06   -0.368911   -0.001543
1.00000   -0.005509   -0.120440    0.929716
 3.04E-06   -0.713508    0.043098

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.006386    0.263858   -1.397107
 2.41E-05   -0.999094    0.326528
0.25000    0.006386    0.263858   -1.397107
 2.41E-05   -0.481260    0.228730
0.50000    0.006386    0.263858   -1.397107
 2.41E-05    0.036573    0.130932
0.75000    0.006386    0.263858   -1.397107
 2.41E-05    0.554406    0.033133
1.00000    0.006386    0.263858   -1.397107
 2.41E-05    1.072240   -0.064665

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.006386   -0.263858    1.397107
-2.41E-05    0.999094   -0.326528
0.25000   -0.006386   -0.263858    1.397107
-2.41E-05    0.481260   -0.228730
0.50000   -0.006386   -0.263858    1.397107
-2.41E-05   -0.036573   -0.130932
0.75000   -0.006386   -0.263858    1.397107
-2.41E-05   -0.554406   -0.033133
1.00000   -0.006386   -0.263858    1.397107
-2.41E-05   -1.072240    0.064665

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    0.006744    0.263858    1.397107
2.41E-05    0.999094    0.326528
0.25000    0.006744    0.263858    1.397107
2.41E-05    0.481260    0.228730
0.50000    0.006744    0.263858    1.397107
2.41E-05    0.036573    0.130932
0.75000    0.006744    0.263858    1.397107
2.41E-05    0.554406    0.033133
1.00000    0.006744    0.263858    1.397107
2.41E-05    1.072240    0.064665

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.006386   -0.263858   -1.397107
-2.41E-05   -0.999094   -0.326528
0.25000   -0.006386   -0.263858   -1.397107
-2.41E-05   -0.481260   -0.228730
0.50000   -0.006386   -0.263858   -1.397107
-2.41E-05   -0.036573   -0.130932
0.75000   -0.006386   -0.263858   -1.397107
-2.41E-05   -0.554406   -0.033133
1.00000   -0.006386   -0.263858   -1.397107
-2.41E-05   -1.072240   -0.064665

ELEM      482 ================== LENGTH
=     1.100000

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   12.686162    0.207211   12.931679
 .000000   14.224847    0.227932
0.25000   12.686162    0.207211   12.931679
 .000000   10.668635    0.170949
0.50000   12.686162    0.207211   12.931679
 .000000    7.112423    0.113966
0.75000   12.686162    0.207211   12.931679
 .000000    3.556212    0.056983
1.00000   12.686162    0.207211   12.931679
 .000000   -1.45E-12   -1.40E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<           UNEQUAL          SETTLEMENT          >
                                    911

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -28.888379   -0.353488   -22.060608
 .000000   -24.266668   -0.388837
0.25000   -28.888379   -0.353488   -22.060608
 .000000   -18.200001   -0.291628
0.50000   -28.888379   -0.353488   -22.060608
 .000000   -12.133334   -0.194418
0.75000   -28.888379   -0.353488   -22.060608
 .000000   -6.066667   -0.097209
1.00000   -28.888379   -0.353488   -22.060608
 .000000   -1.45E-12    1.49E-09

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    21.602386    0.074331    4.638848
 .000000    5.102733    0.081764
0.25000    21.602386    0.074331    4.638848
 .000000    3.827050    0.061323
0.50000    21.602386    0.074331    4.638848
 .000000    2.551367    0.040882
0.75000    21.602386    0.074331    4.638848
 .000000    1.275683    0.020441
1.00000    21.602386    0.074331    4.638848
 .000000    1.45E-12   -1.16E-10

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -7.036047    0.093947    5.863052
 .000000    6.449358    0.103341
0.25000   -7.036047    0.093947    5.863052
 .000000    4.837018    0.077506
0.50000   -7.036047    0.093947    5.863052
 .000000    3.224679    0.051671
0.75000   -7.036047    0.093947    5.863052
 .000000    1.612339    0.025835
1.00000   -7.036047    0.093947    5.863052
 .000000    8.73E-12   -3.26E-10

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    2.019815   -0.027442   -1.712593
 .000000   -1.883853   -0.030186
0.25000    2.019815   -0.027442   -1.712593
 .000000   -1.412890   -0.022639
0.50000    2.019815   -0.027442   -1.712593
 .000000   -0.941926   -0.015093
0.75000    2.019815   -0.027442   -1.712593
 .000000   -0.470963   -0.007546
1.00000    2.019815   -0.027442   -1.712593
 .000000   -5.82E-12    1.51E-10

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -0.383936    0.005442    0.339621
 .000000    0.373583    0.005986
0.25000   -0.383936    0.005442    0.339621
 .000000    0.280188    0.004490
0.50000   -0.383936    0.005442    0.339621
 .000000    0.186792    0.002993
0.75000   -0.383936    0.005442    0.339621
 .000000    0.093396    0.001497
1.00000   -0.383936    0.005442    0.339621
 .000000    4.55E-13   -2.04E-11

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    36.308363    0.254100    15.857934
 .000000    17.443727    0.279509
0.25000    36.308363    0.254100    15.857934
 .000000    13.082796    0.209632
0.50000    36.308363    0.254100    15.857934
 .000000    8.721864    0.139755
0.75000    36.308363    0.254100    15.857934
 .000000    4.360932    0.069877
1.00000    36.308363    0.254100    15.857934
 .000000   -6.99E-11    1.44E-09
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<           UNEQUAL          SETTLEMENT          >
                                    912

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -36.308363   -0.254100   -15.857934
 .000000   -17.443727   -0.279509
0.25000   -36.308363   -0.254100   -15.857934
 .000000   -13.082796   -0.209632
0.50000   -36.308363   -0.254100   -15.857934
 .000000   -8.721864   -0.139755
0.75000   -36.308363   -0.254100   -15.857934
 .000000   -4.360932   -0.069877
1.00000   -36.308363   -0.254100   -15.857934
 .000000   -7.28E-11    4.19E-10

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    36.308363    0.254100    15.857934
 .000000    17.443727    0.279509
0.25000    36.308363    0.254100    15.857934
 .000000    13.082796    0.209632
0.50000    36.308363    0.254100    15.857934
 .000000    8.721864    0.139755
0.75000    36.308363    0.254100    15.857934
 .000000    4.360932    0.069877
1.00000    36.308363    0.254100    15.857934
 .000000    8.73E-12    1.49E-09

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -36.308363   -0.353488   -22.060608
 .000000   -24.266668   -0.388837
0.25000   -36.308363   -0.353488   -22.060608
 .000000   -18.200001   -0.291628
0.50000   -36.308363   -0.353488   -22.060608
 .000000   -12.133334   -0.194418
0.75000   -36.308363   -0.353488   -22.060608
 .000000   -6.066667   -0.097209
1.00000   -36.308363   -0.353488   -22.060608
 .000000   -7.28E-11   -1.44E-09

ELEM      483 ================== LENGTH
=     1.200000

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -23.601377    0.087569    1.574167
 .000000    1.889000    0.105082
0.25000   -23.601377    0.087569    1.574167
 .000000    1.416750    0.078812
0.50000   -23.601377    0.087569    1.574167
 .000000    0.944500    0.052541
0.75000   -23.601377    0.087569    1.574167
 .000000    0.472250    0.026271
1.00000   -23.601377    0.087569    1.574167
 .000000   -1.46E-12    4.66E-11

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    59.997544   -0.185862   -3.341131
 .000000   -4.009357   -0.223035
0.25000    59.997544   -0.185862   -3.341131
 .000000   -3.007017   -0.167276
0.50000    59.997544   -0.185862   -3.341131
 .000000   -2.004678   -0.111517
0.75000    59.997544   -0.185862   -3.341131
 .000000   -1.002339   -0.055759
1.00000    59.997544   -0.185862   -3.341131
 .000000   -3.49E-11   -4.66E-10

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -57.950657    0.115952    2.084403
 .000000    2.501283    0.139143
0.25000   -57.950657    0.115952    2.084403
 .000000    1.875962    0.104357
0.50000   -57.950657    0.115952    2.084403
 .000000    1.250642    0.069571
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<           UNEQUAL          SETTLEMENT          >
                                    913

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.75000   -57.950657    0.115952    2.084403
 .000000    0.625321    0.034786
1.00000   -57.950657    0.115952    2.084403
 .000000   -1.16E-11   -4.66E-11

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   28.108455   -0.024490   -0.440237
 .000000   -0.528284   -0.029388
0.25000   28.108455   -0.024490   -0.440237
 .000000   -0.396213   -0.022041
0.50000   28.108455   -0.024490   -0.440237
 .000000   -0.264142   -0.014694
0.75000   28.108455   -0.024490   -0.440237
 .000000   -0.132071   -0.007347
1.00000   28.108455   -0.024490   -0.440237
 .000000   -1.16E-11   -1.86E-10

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -8.138236    0.007215    0.129699
 .000000    0.155639    0.008658
0.25000   -8.138236    0.007215    0.129699
 .000000    0.116730    0.006493
0.50000   -8.138236    0.007215    0.129699
 .000000    0.077820    0.004329
0.75000   -8.138236    0.007215    0.129699
 .000000    0.038910    0.002164
1.00000   -8.138236    0.007215    0.129699
 .000000    7.28E-13    6.98E-11

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    1.584271   -0.000384   -0.006901
 .000000   -0.008282   -0.000461
0.25000    1.584271   -0.000384   -0.006901
 .000000   -0.006211   -0.000346
0.50000    1.584271   -0.000384   -0.006901
 .000000   -0.004141   -0.000230
0.75000    1.584271   -0.000384   -0.006901
 .000000   -0.002070   -0.000115
1.00000    1.584271   -0.000384   -0.006901
 .000000    7.28E-13    2.91E-12

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -89.690270    0.210736    3.788269
 .000000    4.545922    0.252883
0.25000   -89.690270    0.210736    3.788269
 .000000    3.409442    0.189662
0.50000   -89.690270    0.210736    3.788269
 .000000    2.272961    0.126442
0.75000   -89.690270    0.210736    3.788269
 .000000    1.136481    0.063221
1.00000   -89.690270    0.210736    3.788269
 .000000   -1.31E-11    1.16E-11

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    89.690270   -0.210736   -3.788269
 .000000   -4.545922   -0.252883
0.25000    89.690270   -0.210736   -3.788269
 .000000   -3.409442   -0.189662
0.50000    89.690270   -0.210736   -3.788269
 .000000   -2.272961   -0.126442
0.75000    89.690270   -0.210736   -3.788269
 .000000   -1.136481   -0.063221
1.00000    89.690270   -0.210736   -3.788269
 .000000   -9.46E-12    3.49E-11

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    89.690270    0.210736    3.788269
 .000000    4.545922    0.252883
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<           UNEQUAL          SETTLEMENT          >
                                    914

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
       T          M2         M3
0.25000    89.690270    0.210736    3.788269
 .000000    3.409442    0.189662
0.50000    89.690270    0.210736    3.788269
 .000000    2.272961    0.126442
0.75000    89.690270    0.210736    3.788269
 .000000    1.136481    0.063221
1.00000    89.690270    0.210736    3.788269
 .000000    7.28E-13    6.98E-11

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -89.690270   -0.210736   -3.788269
 .000000   -4.545922   -0.252883
0.25000   -89.690270   -0.210736   -3.788269
 .000000   -3.409442   -0.189662
0.50000   -89.690270   -0.210736   -3.788269
 .000000   -2.272961   -0.126442
0.75000   -89.690270   -0.210736   -3.788269
 .000000   -1.136481   -0.063221
1.00000   -89.690270   -0.210736   -3.788269
 .000000   -3.49E-11   -4.66E-10

ELEM      484 ================== LENGTH
=     1.200000

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    20.211165    6.082056   -0.372048
 .000000   -0.446458    7.298468
0.25000    20.211165    6.082056   -0.372048
 .000000   -0.334843    5.473851
0.50000    20.211165    6.082056   -0.372048
 .000000   -0.223229    3.649234
0.75000    20.211165    6.082056   -0.372048
 .000000   -0.111614    1.824617
1.00000    20.211165    6.082056   -0.372048
 .000000    3.18E-12   -8.73E-12

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -58.327926   -3.572759    2.294168
 .000000    2.753002   -4.287310
0.25000   -58.327926   -3.572759    2.294168
 .000000    2.064751   -3.215483
0.50000   -58.327926   -3.572759    2.294168
 .000000    1.376501   -2.143655
0.75000   -58.327926   -3.572759    2.294168
 .000000    0.688250   -1.071828
1.00000   -58.327926   -3.572759    2.294168
 .000000   -1.46E-11    1.86E-10

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    75.726327    0.323135   -3.957280
 .000000   -4.748736    0.387761
0.25000    75.726327    0.323135   -3.957280
 .000000   -3.561552    0.290821
0.50000    75.726327    0.323135   -3.957280
 .000000   -2.374368    0.193881
0.75000    75.726327    0.323135   -3.957280
 .000000   -1.187184    0.096940
1.00000    75.726327    0.323135   -3.957280
 .000000    1.45E-12   -7.28E-13

LOAD      -P3 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -59.386586    1.808667    2.153628
 .000000    2.584353    2.170400
0.25000   -59.386586    1.808667    2.153628
 .000000    1.938265    1.627800
0.50000   -59.386586    1.808667    2.153628
 .000000    1.292177    1.085200
0.75000   -59.386586    1.808667    2.153628
 .000000    0.646088    0.542600
1.00000   -59.386586    1.808667    2.153628
 .000000    1.64E-11   -9.31E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<           UNEQUAL          SETTLEMENT          >
                                    915

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    26.820690    0.852298   -0.350987
 .000000   -0.421184    1.022757
0.25000    26.820690    0.852298   -0.350987
 .000000   -0.315888    0.767068
0.50000    26.820690    0.852298   -0.350987
 .000000   -0.210592    0.511379
0.75000    26.820690    0.852298   -0.350987
 .000000   -0.105296    0.255689
1.00000    26.820690    0.852298   -0.350987
 .000000   -2.36E-12    1.11E-10

LOAD      -P5 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -5.043669   -5.493397    0.232519
 .000000    0.279023   -6.592076
0.25000   -5.043669   -5.493397    0.232519
 .000000    0.209267   -4.944057
0.50000   -5.043669   -5.493397    0.232519
 .000000    0.139511   -3.296038
0.75000   -5.043669   -5.493397    0.232519
 .000000    0.069756   -1.648019
1.00000   -5.043669   -5.493397    0.232519
 .000000    5.91E-13   -2.04E-11

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    122.758182    7.257489   -4.680315
 .000000   -5.616378    8.708987
0.25000    122.758182    7.257489   -4.680315
 .000000   -4.212283    6.531740
0.50000    122.758182    7.257489   -4.680315
 .000000   -2.808189    4.354493
0.75000    122.758182    7.257489   -4.680315
 .000000   -1.404094    2.177247
1.00000    122.758182    7.257489   -4.680315
 .000000    3.27E-12    2.18E-12

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -122.758182   -7.257489    4.680315
 .000000    5.616378   -8.708987
0.25000   -122.758182   -7.257489    4.680315
 .000000    4.212283   -6.531740
0.50000   -122.758182   -7.257489    4.680315
 .000000    2.808189   -4.354493
0.75000   -122.758182   -7.257489    4.680315
 .000000    1.404094   -2.177247
1.00000   -122.758182   -7.257489    4.680315
 .000000   -1.82E-12   -8.73E-12

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
       T          M2         M3
0.00000    122.758182    7.257489    4.680315
 .000000    5.616378    8.708987
0.25000    122.758182    7.257489    4.680315
 .000000    4.212283    6.531740
0.50000    122.758182    7.257489    4.680315
 .000000    2.808189    4.354493
0.75000    122.758182    7.257489    4.680315
 .000000    1.404094    2.177247
1.00000    122.758182    7.257489    4.680315
 .000000    1.64E-11    1.86E-10

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -122.758182   -7.257489   -4.680315
 .000000   -5.616378   -8.708987
0.25000   -122.758182   -7.257489   -4.680315
 .000000   -4.212283   -6.531740
0.50000   -122.758182   -7.257489   -4.680315
 .000000   -2.808189   -4.354493
0.75000   -122.758182   -7.257489   -4.680315
 .000000   -1.404094   -2.177247
1.00000   -122.758182   -7.257489   -4.680315
 .000000   -1.46E-11   -9.31E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<           UNEQUAL          SETTLEMENT          >
                                    916

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      485 ================== LENGTH
=     1.200000

LOAD      -A1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -6.069736    0.000407    0.113827
 .000000    0.136592    0.000489
0.25000   -6.069736    0.000407    0.113827
 .000000    0.102444    0.000367
0.50000   -6.069736    0.000407    0.113827
 .000000    0.068296    0.000244
0.75000   -6.069736    0.000407    0.113827
 .000000    0.034148    0.000122
1.00000   -6.069736    0.000407    0.113827
 .000000    1.09E-12    2.33E-11

LOAD      -P1 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000    28.220961   -0.001641   -0.458574
 .000000   -0.550289   -0.001969
0.25000    28.220961   -0.001641   -0.458574
 .000000   -0.412717   -0.001477
0.50000    28.220961   -0.001641   -0.458574
 .000000   -0.275145   -0.000984
0.75000    28.220961   -0.001641   -0.458574
 .000000   -0.137572   -0.000492
1.00000    28.220961   -0.001641   -0.458574
 .000000   -8.00E-12   -2.33E-10

LOAD      -P2 --------------------

REL DIST          P          V2          V3
       T          M2         M3
0.00000   -59.506629    0.007742    2.163889
 .000000    2.596666    0.009291
0.25000   -59.506629    0.007742    2.163889
 .000000    1.947500    0.006968
0.50000   -59.506629    0.007742    2.163889
 .000000    1.298333    0.004645
0.75000   -59.506629    0.007742    2.163889
 .000000    0.649167    0.002323
1.00000   -59.506629    0.007742    2.163889
 .000000    7.28E-12    1.40E-10

LOAD      -P3 --------------------
```

```
REL DIST          P          V2          V3
      T          M2          M3
0.00000    73.783049   -0.012404   -3.466897
  .000000   -4.160277   -0.014885
0.25000    73.783049   -0.012404   -3.466897
  .000000   -3.120208   -0.011164
0.50000    73.783049   -0.012404   -3.466897
  .000000   -2.080138   -0.007443
0.75000    73.783049   -0.012404   -3.466897
  .000000   -1.040069   -0.003721
1.00000    73.783049   -0.012404   -3.466897
  .000000    9.46E-12   -4.66E-11

LOAD      -P4 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -52.445256    0.007414    2.072022
  .000000    2.486426    0.008896
0.25000   -52.445256    0.007414    2.072022
  .000000    1.864820    0.006672
0.50000   -52.445256    0.007414    2.072022
  .000000    1.243213    0.004448
0.75000   -52.445256    0.007414    2.072022
  .000000    0.621607    0.002224
1.00000   -52.445256    0.007414    2.072022
  .000000   -4.37E-12    9.31E-11

LOAD      -P5 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000    16.017612   -0.001518   -0.424266
  .000000   -0.509119   -0.001822
0.25000    16.017612   -0.001518   -0.424266
  .000000   -0.381839   -0.001366
0.50000    16.017612   -0.001518   -0.424266
  .000000   -0.254559   -0.000911
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       917

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.75000    16.017612   -0.001518   -0.424266
  .000000   -0.127280   -0.000455
1.00000    16.017612   -0.001518   -0.424266
  .000000    5.46E-13   -1.16E-11

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -118.021622    0.015563    4.349737
  .000000    5.219685    0.018676
0.25000  -118.021622    0.015563    4.349737
  .000000    3.914763    0.014007
0.50000  -118.021622    0.015563    4.349737
  .000000    2.609842    0.009338
0.75000  -118.021622    0.015563    4.349737
  .000000    1.304921    0.004669
1.00000  -118.021622    0.015563    4.349737
  .000000   -3.09E-12    3.35E-11

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   118.021622   -0.015563   -4.349737
  .000000   -5.219685   -0.018676
0.25000   118.021622   -0.015563   -4.349737
  .000000   -3.914763   -0.014007
0.50000   118.021622   -0.015563   -4.349737
  .000000   -2.609842   -0.009338
0.75000   118.021622   -0.015563   -4.349737
  .000000   -1.304921   -0.004669
1.00000   118.021622   -0.015563   -4.349737
  .000000    2.55E-12   -4.22E-11

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   118.021622    0.015563    4.349737
  .000000    5.219685    0.018676
0.25000   118.021622    0.015563    4.349737
  .000000    3.914763    0.014007
0.50000   118.021622    0.015563    4.349737
  .000000    2.609842    0.009338
0.75000   118.021622    0.015563    4.349737
  .000000    1.304921    0.004669
1.00000   118.021622    0.015563    4.349737
  .000000    9.46E-12    1.40E-10

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -118.021622   -0.015563   -4.349737
  .000000   -5.219685   -0.018676
0.25000  -118.021622   -0.015563   -4.349737
  .000000   -3.914763   -0.014007
0.50000  -118.021622   -0.015563   -4.349737
  .000000   -2.609842   -0.009338
0.75000  -118.021622   -0.015563   -4.349737
  .000000   -1.304921   -0.004669
1.00000  -118.021622   -0.015563   -4.349737
  .000000   -8.00E-12   -2.33E-10

ELEM       486 ================== LENGTH
=     1.200000

LOAD      -A1 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.981117   -0.084914   -2.430398
  .000000   -2.916478   -0.101897
0.25000    1.981117   -0.084914   -2.430398
  .000000   -2.187358   -0.076422
0.50000    1.981117   -0.084914   -2.430398
  .000000   -1.458239   -0.050948
0.75000    1.981117   -0.084914   -2.430398
  .000000   -0.729119   -0.025474
1.00000    1.981117   -0.084914   -2.430398
  .000000   -3.64E-13   -3.17E-18
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       918

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -9.221319    0.394297   11.285538
  .000000   13.542646    0.473156
0.25000   -9.221319    0.394297   11.285538
  .000000   10.156985    0.354867
0.50000   -9.221319    0.394297   11.285538
  .000000    6.771323    0.236578
0.75000   -9.221319    0.394297   11.285538
  .000000    3.385662    0.118289
1.00000   -9.221319    0.394297   11.285538
  .000000    3.87E-16   -4.66E-11

LOAD      -P2 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000    26.298651    0.140504    4.021490
  .000000    4.825788    0.168605
0.25000    26.298651    0.140504    4.021490
  .000000    3.619341    0.126453
0.50000    26.298651    0.140504    4.021490
  .000000    2.412894    0.084302
0.75000    26.298651    0.140504    4.021490
  .000000    1.206447    0.042151
1.00000    26.298651    0.140504    4.021490
  .000000   -4.36E-12   -1.40E-10

LOAD      -P3 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -49.598022   -0.836158   -23.932465
  .000000  -28.718958   -1.003390
0.25000  -49.598022   -0.836158   -23.932465
  .000000  -21.539218   -0.752542
0.50000  -49.598022   -0.836158   -23.932465
  .000000  -14.359479   -0.501695
0.75000  -49.598022   -0.836158   -23.932465
  .000000   -7.179739   -0.250847
1.00000  -49.598022   -0.836158   -23.932465
  .000000    2.33E-11   -9.31E-11

LOAD      -P4 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   47.586213    0.138952    3.977067
  .000000    4.772481    0.166742
0.25000   47.586213    0.138952    3.977067
  .000000    3.579360    0.125057
0.50000   47.586213    0.138952    3.977067
  .000000    2.386240    0.083371
0.75000   47.586213    0.138952    3.977067
  .000000    1.193120    0.041686
1.00000   47.586213    0.138952    3.977067
  .000000   -8.00E-12    1.40E-10

LOAD      -P5 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -17.046640    0.247320    7.078767
  .000000    8.494521    0.296784
0.25000  -17.046640    0.247320    7.078767
  .000000    6.370890    0.222588
0.50000  -17.046640    0.247320    7.078767
  .000000    4.247260    0.148392
0.75000  -17.046640    0.247320    7.078767
  .000000    2.123630    0.074196
1.00000  -17.046640    0.247320    7.078767
  .000000   -2.33E-11   -1.16E-10

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000    75.865981    0.194542    5.568159
  .000000    6.681791    0.233450
0.25000    75.865981    0.194542    5.568159
  .000000    5.011343    0.175088
0.50000    75.865981    0.194542    5.568159
  .000000    3.340895    0.116725
0.75000    75.865981    0.194542    5.568159
  .000000    1.670448    0.058363
1.00000    75.865981    0.194542    5.568159
  .000000   -8.73E-12   -1.86E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       919

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -75.865981   -0.194542   -5.568159
  .000000   -6.681791   -0.233450
0.25000   -75.865981   -0.194542   -5.568159
  .000000   -5.011343   -0.175088
0.50000   -75.865981   -0.194542   -5.568159
  .000000   -3.340895   -0.116725
0.75000   -75.865981   -0.194542   -5.568159
  .000000   -1.670448   -0.058363
1.00000   -75.865981   -0.194542   -5.568159
  .000000    4.37E-12    3.49E-10

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    75.865981    0.394297   11.285538
  .000000   13.542646    0.473156
0.25000    75.865981    0.394297   11.285538
  .000000   10.156985    0.354867
0.50000    75.865981    0.394297   11.285538
  .000000    6.771323    0.236578
0.75000    75.865981    0.394297   11.285538
  .000000    3.385662    0.118289
1.00000    75.865981    0.394297   11.285538
  .000000    2.33E-11    3.49E-10

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -75.865981   -0.836158   -23.932465
  .000000  -28.718958   -1.003390
0.25000   -75.865981   -0.836158   -23.932465
  .000000  -21.539218   -0.752542
0.50000   -75.865981   -0.836158   -23.932465
  .000000  -14.359479   -0.501695
0.75000   -75.865981   -0.836158   -23.932465
  .000000   -7.179739   -0.250847
1.00000   -75.865981   -0.836158   -23.932465
  .000000   -2.33E-11   -1.86E-10

ELEM       487 ================== LENGTH
=     1.100000

LOAD      -A1 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -0.264301    0.012265   -1.245902
-7.11E-15  -1.370492    0.013491
0.25000   -0.264301    0.012265   -1.245902
-7.11E-15  -1.027869    0.010118
0.50000   -0.264301    0.012265   -1.245902
-7.11E-15  -0.685246    0.006746
0.75000   -0.264301    0.012265   -1.245902
-7.11E-15  -0.342623    0.003373
1.00000   -0.264301    0.012265   -1.245902
-7.11E-15   1.27E-12    2.33E-11

LOAD      -P1 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.232583   -0.057012    5.791514
  .000000    6.370665   -0.062713
0.25000    1.232583   -0.057012    5.791514
  .000000    4.777999   -0.047035
0.50000    1.232583   -0.057012    5.791514
  .000000    3.185333   -0.031356
0.75000    1.232583   -0.057012    5.791514
  .000000    1.592666   -0.015678
1.00000    1.232583   -0.057012    5.791514
  .000000    3.64E-12   -4.19E-10

LOAD      -P2 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.524646    0.013266   -1.347599
  .000000   -1.482358    0.014592
0.25000   -5.524646    0.013266   -1.347599
  .000000   -1.111769    0.010944
0.50000   -5.524646    0.013266   -1.347599
  .000000   -0.741179    0.007296
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       920

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.75000   -5.524646    0.013266   -1.347599
  .000000   -0.370590    0.003648
1.00000   -5.524646    0.013266   -1.347599
  .000000    4.73E-12   -3.49E-11

LOAD      -P3 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   18.078493    0.008454   -0.858832
  .000000   -0.944715    0.009300
0.25000   18.078493    0.008454   -0.858832
  .000000   -0.708537    0.006975
0.50000   18.078493    0.008454   -0.858832
  .000000   -0.472358    0.004650
0.75000   18.078493    0.008454   -0.858832
  .000000   -0.236179    0.002325
1.00000   18.078493    0.008454   -0.858832
  .000000   -7.13E-11   -2.33E-10

LOAD      -P4 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -22.141668    0.090054   -9.148167
-1.14E-13  -10.062984    0.090060
0.25000  -22.141668    0.090054   -9.148167
-1.14E-13   -7.547238    0.074295
0.50000  -22.141668    0.090054   -9.148167
-1.14E-13   -5.031492    0.049530
0.75000  -22.141668    0.090054   -9.148167
-1.14E-13   -2.515746    0.024765
1.00000  -22.141668    0.090054   -9.148167
-1.14E-13    7.86E-11    8.85E-10

LOAD      -P5 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000    8.619539   -0.067027    6.808986
-3.18E-12   7.489885   -0.073730
0.25000    8.619539   -0.067027    6.808986
-3.18E-12   5.617414   -0.055298
0.50000    8.619539   -0.067027    6.808986
-3.18E-12   3.744942   -0.036865
0.75000    8.619539   -0.067027    6.808986
-3.18E-12   1.872471   -0.018433
1.00000    8.619539   -0.067027    6.808986
-3.18E-12   -4.37E-11   -3.26E-10

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -27.930615    0.115585   -11.741668
  .000000   -12.915835    0.127143
0.25000   -27.930615    0.115585   -11.741668
  .000000   -9.686876    0.095357
0.50000   -27.930615    0.115585   -11.741668
  .000000   -6.457917    0.063572
0.75000   -27.930615    0.115585   -11.741668
  .000000   -3.228959    0.031786
1.00000   -27.930615    0.115585   -11.741668
  .000000    1.28E-10    6.98E-10

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000    27.930615   -0.115585    11.741668
-2.05E-12   12.915835   -0.127143
0.25000    27.930615   -0.115585    11.741668
-2.05E-12    9.686876   -0.095357
0.50000    27.930615   -0.115585    11.741668
-2.05E-12    6.457917   -0.063572
0.75000    27.930615   -0.115585    11.741668
-2.05E-12    3.228959   -0.031786
1.00000    27.930615   -0.115585    11.741668
-2.05E-12   -5.24E-11   -6.52E-10

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000    27.930615    0.115585    11.741668
  .000000   12.915835    0.127143
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       921

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P          V2          V3
      T          M2          M3
0.25000    27.930615    0.115585    11.741668
  .000000    9.686876    0.095357
0.50000    27.930615    0.115585    11.741668
  .000000    6.457917    0.063572
0.75000    27.930615    0.115585    11.741668
  .000000    3.228959    0.031786
1.00000    27.930615    0.115585    11.741668
  .000000    1.28E-10    8.85E-10

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -27.930615   -0.115585   -11.741668
-3.18E-12  -12.915835   -0.127143
0.25000   -27.930615   -0.115585   -11.741668
-3.18E-12   -9.686876   -0.095357
0.50000   -27.930615   -0.115585   -11.741668
-3.18E-12   -6.457917   -0.063572
0.75000   -27.930615   -0.115585   -11.741668
-3.18E-12   -3.228959   -0.031786
1.00000   -27.930615   -0.115585   -11.741668
-3.18E-12   -7.13E-11   -6.52E-10

ELEM       488 ================== LENGTH
=     1.100000

LOAD      -A1 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   17.662397   -0.887771   -11.384348
  .000000  -12.522783   -0.976548
0.25000   17.662397   -0.887771   -11.384348
  .000000   -9.392087   -0.732411
0.50000   17.662397   -0.887771   -11.384348
  .000000   -6.261392   -0.488274
0.75000   17.662397   -0.887771   -11.384348
  .000000   -3.130696   -0.244137
1.00000   17.662397   -0.887771   -11.384348
  .000000   -1.02E-11    3.73E-10

LOAD      -P1 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -36.128975    1.574353    20.188740
  .000000   22.207614    1.731788
0.25000  -36.128975    1.574353    20.188740
  .000000   16.655710    1.298841
0.50000  -36.128975    1.574353    20.188740
  .000000   11.103807    0.865894
0.75000  -36.128975    1.574353    20.188740
  .000000    5.551903    0.432947
1.00000  -36.128975    1.574353    20.188740
  .000000   -5.82E-12   -7.45E-10

LOAD      -P2 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   22.425622   -0.337982   -4.334114
  .000000   -4.767525   -0.371780
0.25000   22.425622   -0.337982   -4.334114
  .000000   -3.575644   -0.278835
0.50000   22.425622   -0.337982   -4.334114
  .000000   -2.383762   -0.185890
0.75000   22.425622   -0.337982   -4.334114
  .000000   -1.191881   -0.092945
1.00000   22.425622   -0.337982   -4.334114
  .000000    9.82E-12    8.15E-11

LOAD      -P3 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -5.149218   -0.453477   -5.815164
  .000000   -6.396680   -0.498824
0.25000   -5.149218   -0.453477   -5.815164
  .000000   -4.797510   -0.374118
0.50000   -5.149218   -0.453477   -5.815164
  .000000   -3.198340   -0.249412
0.75000   -5.149218   -0.453477   -5.815164
  .000000   -1.599170   -0.124706
1.00000   -5.149218   -0.453477   -5.815164
  .000000   -4.95E-11    5.59E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       922

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000    1.456688    0.129958    1.666514
  .000000    1.833166    0.142953
0.25000    1.456688    0.129958    1.666514
  .000000    1.374874    0.107215
0.50000    1.456688    0.129958    1.666514
  .000000    0.916583    0.071477
0.75000    1.456688    0.129958    1.666514
  .000000    0.458291    0.035738
1.00000    1.456688    0.129958    1.666514
  .000000    8.73E-12   -4.66E-11

LOAD      -P5 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   -0.266514   -0.025081   -0.321628
  .000000   -0.353791   -0.027589
0.25000   -0.266514   -0.025081   -0.321628
  .000000   -0.265343   -0.020692
0.50000   -0.266514   -0.025081   -0.321628
  .000000   -0.176896   -0.013795
0.75000   -0.266514   -0.025081   -0.321628
  .000000   -0.088448   -0.006897
1.00000   -0.266514   -0.025081   -0.321628
  .000000   -2.18E-12    2.62E-11

LOAD   -2N+1- ------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   41.544706   -1.095795   -14.051948
  .000000  -15.457142   -1.205375
0.25000   41.544706   -1.095795   -14.051948
  .000000  -11.592857   -0.904031
0.50000   41.544706   -1.095795   -14.051948
  .000000   -7.728571   -0.602687
0.75000   41.544706   -1.095795   -14.051948
  .000000   -3.864286   -0.301344
1.00000   41.544706   -1.095795   -14.051948
  .000000   -7.28E-11    1.49E-09

LOAD   -2N+2- ------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -41.544706    1.095795    14.051948
  .000000   15.457142    1.205375
0.25000  -41.544706    1.095795    14.051948
  .000000   11.592857    0.904031
0.50000  -41.544706    1.095795    14.051948
  .000000    7.728571    0.602687
0.75000  -41.544706    1.095795    14.051948
  .000000    3.864286    0.301344
1.00000  -41.544706    1.095795    14.051948
  .000000    9.17E-11   -1.49E-09

COMB   SETTLE ------------------- MAX

REL DIST          P          V2          V3
      T          M2          M3
0.00000   41.544706    1.574353    20.188740
  .000000   22.207614    1.731788
0.25000   41.544706    1.574353    20.188740
  .000000   16.655710    1.298841
0.50000   41.544706    1.574353    20.188740
  .000000   11.103807    0.865894
0.75000   41.544706    1.574353    20.188740
  .000000    5.551903    0.432947
1.00000   41.544706    1.574353    20.188740
  .000000    9.17E-11    1.49E-09

COMB   SETTLE ------------------- MIN

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -41.544706   -1.095795   -14.051948
  .000000  -15.457142   -1.205375
0.25000  -41.544706   -1.095795   -14.051948
  .000000  -11.592857   -0.904031
0.50000  -41.544706   -1.095795   -14.051948
  .000000   -7.728571   -0.602687
0.75000  -41.544706   -1.095795   -14.051948
  .000000   -3.864286   -0.301344
1.00000  -41.544706   -1.095795   -14.051948
  .000000   -7.28E-11    1.49E-09
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                      Page
<          UNEQUAL          SETTLEMENT          >
                                       923

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM       489 ================== LENGTH
=     1.200000

LOAD      -A1 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000  -30.604985   -0.184368   -3.314261
  .000000   -3.977113   -0.221241
0.25000  -30.604985   -0.184368   -3.314261
  .000000   -2.982835   -0.165931
0.50000  -30.604985   -0.184368   -3.314261
  .000000   -1.988557   -0.110621
0.75000  -30.604985   -0.184368   -3.314261
  .000000   -0.994278   -0.055310
1.00000  -30.604985   -0.184368   -3.314261
  .000000   -7.49E-17   -2.33E-10

LOAD      -P1 --------------------

REL DIST          P          V2          V3
      T          M2          M3
0.00000   74.379313    0.376470    6.767569
  .000000    8.121082    0.451764
0.25000   74.379313    0.376470    6.767569
  .000000    6.090812    0.338823
0.50000   74.379313    0.376470    6.767569
  .000000    4.060541    0.225882
0.75000   74.379313    0.376470    6.767569
  .000000    2.030271    0.112941
1.00000   74.379313    0.376470    6.767569
  .000000   -2.91E-11    2.33E-10

LOAD      -P2 --------------------

REL DIST          P          V2          V3
      T          M2          M3
```

```
 0.00000   -66.717839    -0.215463    -3.873241
  .000000    -4.647890    -0.258555
 0.25000   -66.717839    -0.215463    -3.873241
  .000000    -3.485917    -0.193917
 0.50000   -66.717839    -0.215463    -3.873241
  .000000    -2.323945    -0.129278
 0.75000   -66.717839    -0.215463    -3.873241
  .000000    -1.161972    -0.064639
 1.00000   -66.717839    -0.215463    -3.873241
  .000000     1.45E-12    -1.40E-10

LOAD     -P3 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    29.856478     0.026466     0.475772
  .000000     0.570926     0.031760
 0.25000    29.856478     0.026466     0.475772
  .000000     0.428194     0.023820
 0.50000    29.856478     0.026466     0.475772
  .000000     0.285463     0.015880
 0.75000    29.856478     0.026466     0.475772
  .000000     0.142731     0.007940
 1.00000    29.856478     0.026466     0.475772
  .000000    -2.33E-11    -1.40E-10

LOAD     -P4 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -8.500771    -0.000942    -0.016925
  .000000    -0.020310    -0.001130
 0.25000    -8.500771    -0.000942    -0.016925
  .000000    -0.015232    -0.000847
 0.50000    -8.500771    -0.000942    -0.016925
  .000000    -0.010155    -0.000565
 0.75000    -8.500771    -0.000942    -0.016925
  .000000    -0.005077    -0.000282
 1.00000    -8.500771    -0.000942    -0.016925
  .000000     5.09E-12     9.31E-11

LOAD     -P5 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     1.587804    -0.002165    -0.038913
  .000000    -0.046696    -0.002598
 0.25000     1.587804    -0.002165    -0.038913
  .000000    -0.035022    -0.001948
 0.50000     1.587804    -0.002165    -0.038913
  .000000    -0.023348    -0.001299
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       924

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.75000     1.587804    -0.002165    -0.038913
  .000000    -0.011674    -0.000649
 1.00000     1.587804    -0.002165    -0.038913
  .000000     3.09E-12    -5.82E-12

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -105.823595    -0.400772    -7.204427
  .000000    -8.645312    -0.480926
 0.25000  -105.823595    -0.400772    -7.204427
  .000000    -6.483984    -0.360695
 0.50000  -105.823595    -0.400772    -7.204427
  .000000    -4.322656    -0.240463
 0.75000  -105.823595    -0.400772    -7.204427
  .000000    -2.161328    -0.120232
 1.00000  -105.823595    -0.400772    -7.204427
  .000000     7.28E-12    -6.98E-11

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   105.823595     0.400772     7.204427
  .000000     8.645312     0.480926
 0.25000   105.823595     0.400772     7.204427
  .000000     6.483984     0.360695
 0.50000   105.823595     0.400772     7.204427
  .000000     4.322656     0.240463
 0.75000   105.823595     0.400772     7.204427
  .000000     2.161328     0.120232
 1.00000   105.823595     0.400772     7.204427
  .000000     4.37E-12    -1.16E-11

COMB  SETTLE ------------------ MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   105.823595     0.400772     7.204427
  .000000     8.645312     0.480926
 0.25000   105.823595     0.400772     7.204427
  .000000     6.483984     0.360695
 0.50000   105.823595     0.400772     7.204427
  .000000     4.322656     0.240463
 0.75000   105.823595     0.400772     7.204427
  .000000     2.161328     0.120232
 1.00000   105.823595     0.400772     7.204427
  .000000     7.28E-12     2.33E-10

COMB  SETTLE ------------------ MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -105.823595    -0.400772    -7.204427
  .000000    -8.645312    -0.480926
 0.25000  -105.823595    -0.400772    -7.204427
  .000000    -6.483984    -0.360695
 0.50000  -105.823595    -0.400772    -7.204427
  .000000    -4.322656    -0.240463
 0.75000  -105.823595    -0.400772    -7.204427
  .000000    -2.161328    -0.120232
 1.00000  -105.823595    -0.400772    -7.204427
  .000000    -2.91E-11    -2.33E-10

ELEM      490 ================== LENGTH
=     1.200000

LOAD     -A1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    21.362953    -0.587900     0.414391
  .000000     0.497270    -0.705481
 0.25000    21.362953    -0.587900     0.414391
  .000000     0.372952    -0.529110
 0.50000    21.362953    -0.587900     0.414391
  .000000     0.248635    -0.352740
 0.75000    21.362953    -0.587900     0.414391
  .000000     0.124317    -0.176370
 1.00000    21.362953    -0.587900     0.414391
  .000000     4.82E-12    -4.95E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       925

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -66.636454     1.280385    -3.927098
  .000000    -4.712518     1.536462
 0.25000   -66.636454     1.280385    -3.927098
  .000000    -3.534388     1.152346
 0.50000   -66.636454     1.280385    -3.927098
  .000000    -2.356259     0.768231
 0.75000   -66.636454     1.280385    -3.927098
  .000000    -1.178129     0.384115
 1.00000   -66.636454     1.280385    -3.927098
  .000000    -8.00E-12     2.33E-10

LOAD     -P2 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    90.167898     0.067249     6.949742
  .000000     8.339691     0.080699
 0.25000    90.167898     0.067249     6.949742
  .000000     6.254768     0.060524
 0.50000    90.167898     0.067249     6.949742
  .000000     4.169845     0.040349
 0.75000    90.167898     0.067249     6.949742
  .000000     2.084923     0.020175
 1.00000    90.167898     0.067249     6.949742
  .000000     2.56E-13    -7.28E-12

LOAD     -P3 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -67.920072    -1.005747    -3.767916
  .000000    -4.521499    -1.206897
 0.25000   -67.920072    -1.005747    -3.767916
  .000000    -3.391124    -0.905172
 0.50000   -67.920072    -1.005747    -3.767916
  .000000    -2.260750    -0.603448
 0.75000   -67.920072    -1.005747    -3.767916
  .000000    -1.130375    -0.301724
 1.00000   -67.920072    -1.005747    -3.767916
  .000000     1.96E-11    -3.96E-10

LOAD     -P4 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    28.275148    -0.174837     0.308142
  .000000     0.369770    -0.209804
 0.25000    28.275148    -0.174837     0.308142
  .000000     0.277328    -0.157353
 0.50000    28.275148    -0.174837     0.308142
  .000000     0.184885    -0.104902
 0.75000    28.275148    -0.174837     0.308142
  .000000     0.092443    -0.052451
 1.00000    28.275148    -0.174837     0.308142
  .000000    -2.91E-12     4.66E-11

LOAD     -P5 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -5.249473     0.420851     0.022739
  .000000     0.027286     0.505021
 0.25000    -5.249473     0.420851     0.022739
  .000000     0.020465     0.378766
 0.50000    -5.249473     0.420851     0.022739
  .000000     0.013643     0.252511
 0.75000    -5.249473     0.420851     0.022739
  .000000     0.006822     0.126255
 1.00000    -5.249473     0.420851     0.022739
  .000000     1.11E-12    -7.28E-12

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   139.805998    -0.695489     7.672275
  .000000     9.206731    -0.834586
 0.25000   139.805998    -0.695489     7.672275
  .000000     6.905048    -0.625940
 0.50000   139.805998    -0.695489     7.672275
  .000000     4.603365    -0.417293
 0.75000   139.805998    -0.695489     7.672275
  .000000     2.301683    -0.208647
 1.00000   139.805998    -0.695489     7.672275
  .000000    -5.90E-13     9.46E-12
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       926

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -139.805998     0.695489    -7.672275
  .000000    -9.206731     0.834586
 0.25000  -139.805998     0.695489    -7.672275
  .000000    -6.905048     0.625940
 0.50000  -139.805998     0.695489    -7.672275
  .000000    -4.603365     0.417293
 0.75000  -139.805998     0.695489    -7.672275
  .000000    -2.301683     0.208647
 1.00000  -139.805998     0.695489    -7.672275
  .000000     6.36E-13    -1.67E-11

COMB  SETTLE ------------------ MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   139.805998     1.280385     7.672275
  .000000     9.206731     1.536462
 0.25000   139.805998     1.280385     7.672275
  .000000     6.905048     1.152346
 0.50000   139.805998     1.280385     7.672275
  .000000     4.603365     0.768231
 0.75000   139.805998     1.280385     7.672275
  .000000     2.301683     0.384115
 1.00000   139.805998     1.280385     7.672275
  .000000     1.96E-11     2.33E-10

COMB  SETTLE ------------------ MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -139.805998    -1.005747    -7.672275
  .000000    -9.206731    -1.206897
 0.25000  -139.805998    -1.005747    -7.672275
  .000000    -6.905048    -0.905172
 0.50000  -139.805998    -1.005747    -7.672275
  .000000    -4.603365    -0.603448
 0.75000  -139.805998    -1.005747    -7.672275
  .000000    -2.301683    -0.301724
 1.00000  -139.805998    -1.005747    -7.672275
  .000000    -8.00E-12    -3.96E-10

ELEM      491 ================== LENGTH
=     1.200000

LOAD     -A1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -6.381494    -0.000260    -0.072595
  .000000    -0.087114    -0.000312
 0.25000    -6.381494    -0.000260    -0.072595
  .000000    -0.065335    -0.000234
 0.50000    -6.381494    -0.000260    -0.072595
  .000000    -0.043557    -0.000156
 0.75000    -6.381494    -0.000260    -0.072595
  .000000    -0.021778    -7.79E-05
 1.00000    -6.381494    -0.000260    -0.072595
  .000000     3.64E-13     6.98E-11

LOAD     -P1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    29.771555     0.001671     0.467120
  .000000     0.560544     0.002006
 0.25000    29.771555     0.001671     0.467120
  .000000     0.420408     0.001504
 0.50000    29.771555     0.001671     0.467120
  .000000     0.280272     0.001003
 0.75000    29.771555     0.001671     0.467120
  .000000     0.140136     0.000501
 1.00000    29.771555     0.001671     0.467120
  .000000     1.46E-12    -9.31E-11

LOAD     -P2 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -67.802204    -0.014250    -3.982670
  .000000    -4.779203    -0.017100
 0.25000   -67.802204    -0.014250    -3.982670
  .000000    -3.584403    -0.012825
 0.50000   -67.802204    -0.014250    -3.982670
  .000000    -2.389602    -0.008550
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       927

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.75000   -67.802204    -0.014250    -3.982670
  .000000    -1.194801    -0.004275
 1.00000   -67.802204    -0.014250    -3.982670
  .000000     2.18E-12     7.45E-10

LOAD     -P3 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    87.941151     0.024433     6.828761
  .000000     8.194513     0.029319
 0.25000    87.941151     0.024433     6.828761
  .000000     6.145884     0.021990
 0.50000    87.941151     0.024433     6.828761
  .000000     4.097256     0.014660
 0.75000    87.941151     0.024433     6.828761
  .000000     2.048628     0.007330
 1.00000    87.941151     0.024433     6.828761
  .000000     1.82E-13    -1.86E-10

LOAD     -P4 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -60.582288    -0.013423    -3.751699
  .000000    -4.502039    -0.016108
 0.25000   -60.582288    -0.013423    -3.751699
  .000000    -3.376529    -0.012081
 0.50000   -60.582288    -0.013423    -3.751699
  .000000    -2.251020    -0.008054
 0.75000   -60.582288    -0.013423    -3.751699
  .000000    -1.125510    -0.004027
 1.00000   -60.582288    -0.013423    -3.751699
  .000000    -4.37E-12    -9.31E-11

LOAD     -P5 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    17.053280     0.001829     0.511084
  .000000     0.613300     0.002194
 0.25000    17.053280     0.001829     0.511084
  .000000     0.459975     0.001646
 0.50000    17.053280     0.001829     0.511084
  .000000     0.306650     0.001097
 0.75000    17.053280     0.001829     0.511084
  .000000     0.153325     0.000549
 1.00000    17.053280     0.001829     0.511084
  .000000     1.82E-13     3.49E-11

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -134.765986    -0.027933    -7.806964
  .000000    -9.368357    -0.033519
 0.25000  -134.765986    -0.027933    -7.806964
  .000000    -7.026267    -0.025140
 0.50000  -134.765986    -0.027933    -7.806964
  .000000    -4.684178    -0.016760
 0.75000  -134.765986    -0.027933    -7.806964
  .000000    -2.342089    -0.008380
 1.00000  -134.765986    -0.027933    -7.806964
  .000000     1.09E-12     4.37E-11

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   134.765986     0.027933     7.806964
  .000000     9.368357     0.033519
 0.25000   134.765986     0.027933     7.806964
  .000000     7.026267     0.025140
 0.50000   134.765986     0.027933     7.806964
  .000000     4.684178     0.016760
 0.75000   134.765986     0.027933     7.806964
  .000000     2.342089     0.008380
 1.00000   134.765986     0.027933     7.806964
  .000000    -1.36E-12    -2.62E-11

COMB  SETTLE ------------------ MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   134.765986     0.027933     7.806964
  .000000     9.368357     0.033519
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       928

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.25000   134.765986     0.027933     7.806964
  .000000     7.026267     0.025140
 0.50000   134.765986     0.027933     7.806964
  .000000     4.684178     0.016760
 0.75000   134.765986     0.027933     7.806964
  .000000     2.342089     0.008380
 1.00000   134.765986     0.027933     7.806964
  .000000     2.18E-12     7.45E-10

COMB  SETTLE ------------------ MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000  -134.765986    -0.027933    -7.806964
  .000000    -9.368357    -0.033519
 0.25000  -134.765986    -0.027933    -7.806964
  .000000    -7.026267    -0.025140
 0.50000  -134.765986    -0.027933    -7.806964
  .000000    -4.684178    -0.016760
 0.75000  -134.765986    -0.027933    -7.806964
  .000000    -2.342089    -0.008380
 1.00000  -134.765986    -0.027933    -7.806964
  .000000    -4.37E-12    -1.86E-10

ELEM      492 ================== LENGTH
=     1.200000

LOAD     -A1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     1.192037    -0.053805     2.398669
  .000000     2.878403    -0.064566
 0.25000     1.192037    -0.053805     2.398669
  .000000     2.158802    -0.048425
 0.50000     1.192037    -0.053805     2.398669
  .000000     1.439202    -0.032283
 0.75000     1.192037    -0.053805     2.398669
  .000000     0.719601    -0.016142
 1.00000     1.192037    -0.053805     2.398669
  .000000     1.82E-13    -6.98E-11

LOAD     -P1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -5.568847     0.250927    -11.186478
  .000000   -13.423774     0.301112
 0.25000    -5.568847     0.250927    -11.186478
  .000000   -10.067831     0.225834
 0.50000    -5.568847     0.250927    -11.186478
  .000000    -6.711887     0.150556
 0.75000    -5.568847     0.250927    -11.186478
  .000000    -3.355944     0.075278
 1.00000    -5.568847     0.250927    -11.186478
  .000000    -1.46E-12     9.31E-11

LOAD     -P2 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    29.364186     0.081090    -3.615029
  .000000    -4.338034     0.097307
 0.25000    29.364186     0.081090    -3.615029
  .000000    -3.253526     0.072981
 0.50000    29.364186     0.081090    -3.615029
  .000000    -2.169017     0.048654
 0.75000    29.364186     0.081090    -3.615029
  .000000    -1.084509     0.024327
 1.00000    29.364186     0.081090    -3.615029
  .000000    -4.55E-12    -1.16E-11

LOAD     -P3 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -67.243679    -0.483873     21.571373
  .000000    25.885648    -0.580647
 0.25000   -67.243679    -0.483873     21.571373
  .000000    19.414236    -0.435485
 0.50000   -67.243679    -0.483873     21.571373
  .000000    12.942824    -0.290324
 0.75000   -67.243679    -0.483873     21.571373
  .000000     6.471412    -0.145162
 1.00000   -67.243679    -0.483873     21.571373
  .000000    -5.09E-12     9.31E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       929

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD     -P4 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    63.519213     0.013552    -0.604144
  .000000    -0.724973     0.016262
 0.25000    63.519213     0.013552    -0.604144
  .000000    -0.543730     0.012197
 0.50000    63.519213     0.013552    -0.604144
  .000000    -0.362486     0.008131
 0.75000    63.519213     0.013552    -0.604144
  .000000    -0.181243     0.004066
 1.00000    63.519213     0.013552    -0.604144
  .000000     2.36E-12     9.31E-11

LOAD     -P5 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -21.262910     0.192110    -8.564392
  .000000   -10.277270     0.230532
 0.25000   -21.262910     0.192110    -8.564392
  .000000    -7.707952     0.172899
 0.50000   -21.262910     0.192110    -8.564392
  .000000    -5.138635     0.115266
 0.75000   -21.262910     0.192110    -8.564392
  .000000    -2.569317     0.057633
 1.00000   -21.262910     0.192110    -8.564392
  .000000    -3.65E-13    -9.31E-11

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    94.075436     0.040836    -1.820503
  .000000    -2.184604     0.049003
 0.25000    94.075436     0.040836    -1.820503
  .000000    -1.638453     0.036753
 0.50000    94.075436     0.040836    -1.820503
  .000000    -1.092302     0.024502
 0.75000    94.075436     0.040836    -1.820503
  .000000    -0.546151     0.012251
 1.00000    94.075436     0.040836    -1.820503
  .000000    -9.82E-12     4.66E-11

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -94.075436    -0.040836     1.820503
  .000000     2.184604    -0.049003
 0.25000   -94.075436    -0.040836     1.820503
  .000000     1.638453    -0.036753
 0.50000   -94.075436    -0.040836     1.820503
  .000000     1.092302    -0.024502
 0.75000   -94.075436    -0.040836     1.820503
  .000000     0.546151    -0.012251
 1.00000   -94.075436    -0.040836     1.820503
  .000000     8.55E-12     6.98E-11

COMB  SETTLE ------------------ MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    94.075436     0.250927     21.571373
  .000000    25.885648     0.301112
 0.25000    94.075436     0.250927     21.571373
  .000000    19.414236     0.225834
 0.50000    94.075436     0.250927     21.571373
  .000000    12.942824     0.150556
 0.75000    94.075436     0.250927     21.571373
  .000000     6.471412     0.075278
 1.00000    94.075436     0.250927     21.571373
  .000000     8.55E-12     9.31E-11

COMB  SETTLE ------------------ MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -94.075436    -0.483873    -11.186478
  .000000   -13.423774    -0.580647
 0.25000   -94.075436    -0.483873    -11.186478
  .000000   -10.067831    -0.435485
 0.50000   -94.075436    -0.483873    -11.186478
  .000000    -6.711887    -0.290324
 0.75000   -94.075436    -0.483873    -11.186478
  .000000    -3.355944    -0.145162
 1.00000   -94.075436    -0.483873    -11.186478
  .000000    -9.82E-12    -9.31E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                      Page
<          UNEQUAL          SETTLEMENT          >
                       930

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      493 ================== LENGTH
=     1.100000

LOAD     -A1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    -0.625471    -0.060420     1.252845
  .000000     1.378129    -0.066461
 0.25000    -0.625471    -0.060420     1.252845
  .000000     1.033597    -0.049846
 0.50000    -0.625471    -0.060420     1.252845
  .000000     0.689065    -0.033231
 0.75000    -0.625471    -0.060420     1.252845
  .000000     0.344532    -0.016615
 1.00000    -0.625471    -0.060420     1.252845
  .000000     4.37E-12    -6.98E-11

LOAD     -P1 ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000     2.911794     0.280694    -5.820406
  5.68E-14    -6.402446     0.308764
 0.25000     2.911794     0.280694    -5.820406
```

```
 5.68E-14   -4.801835    0.231573
0.50000     2.911794    0.280694    -5.820406
 5.68E-14   -3.201223    0.154382
0.75000     2.911794    0.280694    -5.820406
 5.68E-14   -1.600612    0.077191
1.00000     2.911794    0.280694    -5.820406
 5.68E-14    2.04E-11   -4.66E-11

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    -5.550921   -0.060079    1.245778
 3.55E-15   1.370356   -0.066087
0.25000    -5.550921   -0.060079    1.245778
 3.55E-15   1.027767   -0.049565
0.50000    -5.550921   -0.060079    1.245778
 3.55E-15   0.685178   -0.033043
0.75000    -5.550921   -0.060079    1.245778
 3.55E-15   0.342589   -0.016522
1.00000    -5.550921   -0.060079    1.245778
 3.55E-15  -2.09E-12    2.91E-11

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    16.862884   -0.068298    1.416207
 .000000    1.557828   -0.075128
0.25000    16.862884   -0.068298    1.416207
 .000000    1.168371   -0.056346
0.50000    16.862884   -0.068298    1.416207
 .000000    0.778914   -0.037564
0.75000    16.862884   -0.068298    1.416207
 .000000    0.389457   -0.018782
1.00000    16.862884   -0.068298    1.416207
 .000000    1.16E-11   -3.26E-10

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -25.293554   -0.357421    7.411393
 .000000    8.152532   -0.393163
0.25000   -25.293554   -0.357421    7.411393
 .000000    6.114399   -0.294872
0.50000   -25.293554   -0.357421    7.411393
 .000000    4.076266   -0.196582
0.75000   -25.293554   -0.357421    7.411393
 .000000    2.038133   -0.098291
1.00000   -25.293554   -0.357421    7.411393
 .000000   -3.42E-11   -2.79E-10

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    11.695269    0.265523   -5.505817
 2.44E-12  -6.056399    0.292075
0.25000    11.695269    0.265523   -5.505817
 2.44E-12  -4.542299    0.219056
0.50000    11.695269    0.265523   -5.505817
 2.44E-12  -3.028199    0.146038
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                 931

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000    11.695269    0.265523   -5.505817
 2.44E-12  -1.514100    0.073019
1.00000    11.695269    0.265523   -5.505817
 2.44E-12   1.12E-10    8.85E-10

LOAD  -2N+1- -------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -31.469947   -0.477919    9.910016
-5.68E-14  10.901017   -0.525711
0.25000   -31.469947   -0.477919    9.910016
-5.68E-14   8.175763   -0.394283
0.50000   -31.469947   -0.477919    9.910016
-5.68E-14   5.450509   -0.262856
0.75000   -31.469947   -0.477919    9.910016
-5.68E-14   2.725254   -0.131428
1.00000   -31.469947   -0.477919    9.910016
-5.68E-14  -2.54E-12    4.19E-10

LOAD  -2N+2- -------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    31.469947    0.477919   -9.910016
 1.19E-12  -10.901017    0.525711
0.25000    31.469947    0.477919   -9.910016
 1.19E-12  -8.175763    0.394283
0.50000    31.469947    0.477919   -9.910016
 1.19E-12  -5.450509    0.262856
0.75000    31.469947    0.477919   -9.910016
 1.19E-12  -2.725254    0.131428
1.00000    31.469947    0.477919   -9.910016
 1.19E-12   1.16E-11    6.05E-10

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    31.469947    0.477919    9.910016
 2.44E-12  10.901017    0.525711
0.25000    31.469947    0.477919    9.910016
 2.44E-12   8.175763    0.394283
0.50000    31.469947    0.477919    9.910016
 2.44E-12   5.450509    0.262856
0.75000    31.469947    0.477919    9.910016
 2.44E-12   2.725254    0.131428
1.00000    31.469947    0.477919    9.910016
 2.44E-12   1.12E-10    8.85E-10

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -31.469947   -0.477919   -9.910016
-5.68E-14  -10.901017   -0.525711
0.25000   -31.469947   -0.477919   -9.910016
-5.68E-14   -8.175763   -0.394283
0.50000   -31.469947   -0.477919   -9.910016
-5.68E-14   -5.450509   -0.262856
0.75000   -31.469947   -0.477919   -9.910016
-5.68E-14   -2.725254   -0.131428
1.00000   -31.469947   -0.477919   -9.910016
-5.68E-14   -3.42E-11   -3.26E-10

ELEM      494 ================== LENGTH
=     1.100000

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    13.622401    4.66E-10   -8.00E-11
 .000000   -8.73E-11    4.66E-10
0.25000    13.622401    4.66E-10   -8.00E-11
 .000000   -6.53E-11    3.38E-10
0.50000    13.622401    4.66E-10   -8.00E-11
 .000000   -4.33E-11    2.10E-10
0.75000    13.622401    4.66E-10   -8.00E-11
 .000000   -2.13E-11    8.15E-11
1.00000    13.622401    4.66E-10   -8.00E-11
 .000000    7.28E-13   -4.66E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                 932

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -27.636229    .000000    8.73E-11
 .000000    1.16E-10   9.31E-10
0.25000   -27.636229    .000000    8.73E-11
 .000000    9.24E-11   9.31E-10
0.50000   -27.636229    .000000    8.73E-11
 .000000    6.84E-11   9.31E-10
0.75000   -27.636229    .000000    8.73E-11
 .000000    4.44E-11   9.31E-10
1.00000   -27.636229    .000000    8.73E-11
 .000000    2.04E-11   9.31E-10

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    19.170681   -1.16E-10   -5.46E-12
 .000000   -1.46E-11   -1.16E-10
0.25000    19.170681   -1.16E-10   -5.46E-12
 .000000   -1.31E-11   -8.44E-11
0.50000    19.170681   -1.16E-10   -5.46E-12
 .000000   -1.16E-11   -5.24E-11
0.75000    19.170681   -1.16E-10   -5.46E-12
 .000000   -1.00E-11   -2.04E-11
1.00000    19.170681   -1.16E-10   -5.46E-12
 .000000   -8.55E-12    1.16E-11

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.710977   -4.66E-10    5.82E-11
 .000000    2.91E-11   -2.33E-10
0.25000   -6.710977   -4.66E-10    5.82E-11
 .000000    1.31E-11   -1.05E-10
0.50000   -6.710977   -4.66E-10    5.82E-11
 .000000   -2.91E-12    2.33E-11
0.75000   -6.710977   -4.66E-10    5.82E-11
 .000000   -1.89E-11    1.51E-10
1.00000   -6.710977   -4.66E-10    5.82E-11
 .000000   -3.49E-11    2.79E-10

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    1.906580    2.33E-10   -2.91E-11
 .000000   -1.46E-11    5.82E-11
0.25000    1.906580    2.33E-10   -2.91E-11
 .000000   -6.55E-12   -5.82E-12
0.50000    1.906580    2.33E-10   -2.91E-11
 .000000    1.46E-12   -6.98E-11
0.75000    1.906580    2.33E-10   -2.91E-11
 .000000    9.46E-12   -1.34E-10
1.00000    1.906580    2.33E-10   -2.91E-11
 .000000    1.75E-11   -1.98E-10

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -0.352455    .000000    1.82E-12
 .000000    1.82E-12    .000000
0.25000   -0.352455    .000000    1.82E-12
 .000000    1.32E-12    .000000
0.50000   -0.352455    .000000    1.82E-12
 .000000    8.19E-13    .000000
0.75000   -0.352455    .000000    1.82E-12
 .000000    3.18E-13    .000000
1.00000   -0.352455    .000000    1.82E-12
 .000000   -1.82E-13    .000000

LOAD  -2N+1- -------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    34.699662   -4.66E-10   -1.04E-10
 .000000   -1.31E-10   -4.66E-10
0.25000    34.699662   -4.66E-10   -1.04E-10
 .000000   -1.02E-10   -3.38E-10
0.50000    34.699662   -4.66E-10   -1.04E-10
 .000000   -7.39E-11   -2.10E-10
0.75000    34.699662   -4.66E-10   -1.04E-10
 .000000   -4.54E-11   -8.15E-11
1.00000    34.699662   -4.66E-10   -1.04E-10
 .000000   -1.69E-11    4.66E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                 933

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD  -2N+2- -------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -34.699662   -4.66E-10    8.55E-11
 .000000    1.02E-10    .000000
0.25000   -34.699662   -4.66E-10    8.55E-11
 .000000    7.84E-11   -1.28E-10
0.50000   -34.699662   -4.66E-10    8.55E-11
 .000000    5.48E-11    2.56E-10
0.75000   -34.699662   -4.66E-10    8.55E-11
 .000000    3.13E-11    3.84E-10
1.00000   -34.699662   -4.66E-10    8.55E-11
 .000000    7.82E-12    5.12E-10

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000    34.699662    4.66E-10    8.73E-11
 .000000    1.16E-10    9.31E-10
0.25000    34.699662    4.66E-10    8.73E-11
 .000000    9.24E-11    9.31E-10
0.50000    34.699662    4.66E-10    8.73E-11
 .000000    6.84E-11    9.31E-10
0.75000    34.699662    4.66E-10    8.73E-11
 .000000    4.44E-11    9.31E-10
1.00000    34.699662    4.66E-10    8.73E-11
 .000000    2.04E-11    9.31E-10

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -34.699662   -4.66E-10   -1.04E-10
 .000000   -1.31E-10   -4.66E-10
0.25000   -34.699662   -4.66E-10   -1.04E-10
 .000000   -1.02E-10   -3.38E-10
0.50000   -34.699662   -4.66E-10   -1.04E-10
 .000000   -7.39E-11   -2.10E-10
0.75000   -34.699662   -4.66E-10   -1.04E-10
 .000000   -4.54E-11   -1.34E-10
1.00000   -34.699662   -4.66E-10   -1.04E-10
 .000000   -3.49E-11   -1.98E-10

ELEM      495 ================== LENGTH
=     1.200000

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -38.447222    .000000   -1.46E-11
 .000000    1.46E-11    .000000
0.25000   -38.447222    .000000   -1.46E-11
 .000000    1.89E-11    .000000
0.50000   -38.447222    .000000   -1.46E-11
 .000000    2.33E-11    .000000
0.75000   -38.447222    .000000   -1.46E-11
 .000000    2.76E-11    .000000
1.00000   -38.447222    .000000   -1.46E-11
 .000000    3.20E-11    .000000

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    89.456725    4.66E-10   -2.91E-11
 .000000   -1.46E-11    2.33E-10
0.25000    89.456725    4.66E-10   -2.91E-11
 .000000   -5.82E-12    9.31E-11
0.50000    89.456725    4.66E-10   -2.91E-11
 .000000    2.91E-12   -4.66E-11
0.75000    89.456725    4.66E-10   -2.91E-11
 .000000    1.16E-11   -1.86E-10
1.00000    89.456725    4.66E-10   -2.91E-11
 .000000    2.04E-11   -3.26E-10

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -74.178961   -2.33E-10    .000000
 .000000   -2.91E-11    .000000
0.25000   -74.178961   -2.33E-10    .000000
 .000000   -2.91E-11    6.98E-11
0.50000   -74.178961   -2.33E-10    .000000
 .000000   -2.91E-11    1.40E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                 934

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.75000   -74.178961   -2.33E-10    .000000
 .000000   -2.91E-11    2.10E-10
1.00000   -74.178961   -2.33E-10    .000000
 .000000   -2.91E-11    2.79E-10

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    30.120882    4.66E-10    2.91E-11
 .000000    2.91E-11    .000000
0.25000    30.120882    4.66E-10    2.91E-11
 .000000    2.04E-11   -1.40E-10
0.50000    30.120882    4.66E-10    2.91E-11
 .000000    1.16E-11   -2.79E-10
0.75000    30.120882    4.66E-10    2.91E-11
 .000000    2.91E-12   -4.19E-10
1.00000    30.120882    4.66E-10    2.91E-11
 .000000   -5.82E-12   -5.59E-10

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -8.453969    1.16E-10    7.28E-12
 .000000    .000000    .000000
0.25000   -8.453969    1.16E-10    7.28E-12
 .000000   -2.18E-12   -3.49E-11
0.50000   -8.453969    1.16E-10    7.28E-12
 .000000   -4.37E-12   -6.98E-11
0.75000   -8.453969    1.16E-10    7.28E-12
 .000000   -6.55E-12   -1.05E-10
1.00000   -8.453969    1.16E-10    7.28E-12
 .000000   -8.73E-12   -1.40E-10

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    1.502544   -2.91E-11    1.82E-12
 .000000    9.09E-13    .000000
0.25000    1.502544   -2.91E-11    1.82E-12
 .000000    8.73E-13   -1.82E-12
0.50000    1.502544   -2.91E-11    1.82E-12
 .000000   -1.82E-13    1.75E-11
0.75000    1.502544   -2.91E-11    1.82E-12
 .000000   -7.28E-13    2.62E-11
1.00000    1.502544   -2.91E-11    1.82E-12
 .000000   -1.27E-12    3.49E-11

LOAD  -2N+1- -------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000 -121.080151    1.16E-10   -8.64E-12
 .000000   -1.18E-11    .000000
0.25000 -121.080151    1.16E-10   -8.64E-12
 .000000   -9.23E-12   -3.49E-11
0.50000 -121.080151    1.16E-10   -8.64E-12
 .000000   -6.64E-12   -6.98E-11
0.75000 -121.080151    1.16E-10   -8.64E-12
 .000000   -4.05E-12   -1.05E-10
1.00000 -121.080151    1.16E-10   -8.64E-12
 .000000   -1.46E-12   -1.40E-10

LOAD  -2N+2- -------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   121.080151    .000000   -2.72E-11
 .000000   -7.73E-12   5.82E-11
0.25000   121.080151    .000000   -2.72E-11
 .000000    4.21E-13   5.82E-11
0.50000   121.080151    .000000   -2.72E-11
 .000000    8.57E-12   5.82E-11
0.75000   121.080151    .000000   -2.72E-11
 .000000    1.29E-11   5.82E-11
1.00000   121.080151    .000000   -2.72E-11
 .000000    2.49E-11   5.82E-11

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   121.080151    4.66E-10    2.91E-11
 .000000    2.91E-11    2.33E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                 935

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P           V2          V3
       T          M2          M3
0.25000   121.080151    4.66E-10    2.91E-11
 .000000    2.04E-11    9.31E-11
0.50000   121.080151    4.66E-10    2.91E-11
 .000000    2.33E-11    1.40E-10
0.75000   121.080151    4.66E-10    2.91E-11
 .000000    2.76E-11    2.11E-10
1.00000   121.080151    4.66E-10    2.91E-11
 .000000    3.20E-11    2.79E-10

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000 -121.080151   -2.33E-10   -2.91E-11
 .000000   -2.91E-11    .000000
0.25000 -121.080151   -2.33E-10   -2.91E-11
 .000000   -2.91E-11   -1.40E-10
0.50000 -121.080151   -2.33E-10   -2.91E-11
 .000000   -2.91E-11   -2.79E-10
0.75000 -121.080151   -2.33E-10   -2.91E-11
 .000000   -2.91E-11   -4.19E-10
1.00000 -121.080151   -2.33E-10   -2.91E-11
 .000000   -2.91E-11   -5.59E-10

ELEM      496 ================== LENGTH
=     1.200000

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    21.624570   -4.530070    0.133975
 .000000    0.160789   -5.436084
0.25000    21.624570   -4.530070    0.133975
 .000000    0.120577   -4.077063
0.50000    21.624570   -4.530070    0.133975
 .000000    0.080385   -2.718042
0.75000    21.624570   -4.530070    0.133975
 .000000    0.040192   -1.359021
1.00000    21.624570   -4.530070    0.133975
 .000000   -2.00E-12   -2.91E-12

LOAD      -P1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -73.883076    0.011964   -0.000354
 .000000   -0.000425    0.014357
0.25000   -73.883076    0.011964   -0.000354
 .000000   -0.000318    0.010768
0.50000   -73.883076    0.011964   -0.000354
 .000000   -0.000212    0.007179
0.75000   -73.883076    0.011964   -0.000354
 .000000   -0.000106    0.003589
1.00000   -73.883076    0.011964   -0.000354
 .000000   -7.28E-13    2.79E-10

LOAD      -P2 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   104.021835   -0.195495    0.005782
 .000000    0.006938   -0.234594
0.25000   104.021835   -0.195495    0.005782
 .000000    0.005203   -0.175945
0.50000   104.021835   -0.195495    0.005782
 .000000    0.003469   -0.117297
0.75000   104.021835   -0.195495    0.005782
 .000000    0.001734   -0.058648
1.00000   104.021835   -0.195495    0.005782
 .000000   -3.64E-13   -5.46E-12

LOAD      -P3 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -75.044788    0.922480   -0.027282
 .000000   -0.032738    1.106976
0.25000   -75.044788    0.922480   -0.027282
 .000000   -0.024554    0.830232
0.50000   -75.044788    0.922480   -0.027282
 .000000   -0.016369    0.553488
0.75000   -75.044788    0.922480   -0.027282
 .000000   -0.008185    0.276744
1.00000   -75.044788    0.922480   -0.027282
 .000000    2.91E-12   -3.03E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                 936

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P4 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000    28.523687   -0.665377    0.019678
 .000000    0.023614   -0.798453
0.25000    28.523687   -0.665377    0.019678
 .000000    0.017710   -0.598840
0.50000    28.523687   -0.665377    0.019678
 .000000    0.011807   -0.399226
0.75000    28.523687   -0.665377    0.019678
 .000000    0.005903   -0.199613
1.00000    28.523687   -0.665377    0.019678
 .000000   -1.27E-12    6.98E-11

LOAD      -P5 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -5.242228    4.456498   -0.131799
 .000000   -0.158158    5.347798
0.25000   -5.242228    4.456498   -0.131799
 .000000   -0.118619    4.010848
0.50000   -5.242228    4.456498   -0.131799
 .000000   -0.079079    2.673899
0.75000   -5.242228    4.456498   -0.131799
 .000000   -0.039540    1.336949
1.00000   -5.242228    4.456498   -0.131799
 .000000   -4.55E-13   -1.16E-11

LOAD  -2N+1- -------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   154.170092   -5.390942    0.159434
 .000000    0.191321   -6.469131
0.25000   154.170092   -5.390942    0.159434
 .000000    0.143491   -4.851848
0.50000   154.170092   -5.390942    0.159434
 .000000    0.095661   -3.234565
0.75000   154.170092   -5.390942    0.159434
 .000000    0.047830   -1.617283
1.00000   154.170092   -5.390942    0.159434
 .000000    1.16E-11   -7.28E-13

LOAD  -2N+2- -------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000  -154.170092    5.390942   -0.159434
 .000000   -0.191321    6.469131
0.25000  -154.170092    5.390942   -0.159434
 .000000   -0.143491    4.851848
0.50000  -154.170092    5.390942   -0.159434
 .000000   -0.095661    3.234565
0.75000  -154.170092    5.390942   -0.159434
 .000000   -0.047830    1.617283
1.00000  -154.170092    5.390942   -0.159434
 .000000   -3.64E-12   -1.38E-11

COMB  SETTLE ------------------- MAX

REL DIST          P           V2          V3
       T          M2          M3
0.00000   154.170092    5.390942    0.159434
 .000000    0.191321    6.469131
0.25000   154.170092    5.390942    0.159434
 .000000    0.143491    4.851848
0.50000   154.170092    5.390942    0.159434
 .000000    0.095661    3.234565
0.75000   154.170092    5.390942    0.159434
 .000000    0.047830    1.617283
1.00000   154.170092    5.390942    0.159434
 .000000    1.16E-11    2.79E-10

COMB  SETTLE ------------------- MIN

REL DIST          P           V2          V3
       T          M2          M3
0.00000  -154.170092   -5.390942   -0.159434
 .000000   -0.191321   -6.469131
0.25000  -154.170092   -5.390942   -0.159434
 .000000   -0.143491   -4.851848
0.50000  -154.170092   -5.390942   -0.159434
 .000000   -0.095661   -3.234565
0.75000  -154.170092   -5.390942   -0.159434
 .000000   -0.047830   -1.617283
1.00000  -154.170092   -5.390942   -0.159434
 .000000   -3.64E-12   -3.03E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                     Page
<          UNEQUAL          SETTLEMENT          >
                                 937

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

ELEM      497 ================== LENGTH
=     1.200000

LOAD      -A1 --------------------

REL DIST          P           V2          V3
       T          M2          M3
0.00000   -6.445012    1.16E-10    4.55E-12
 .000000   -2.27E-12    5.82E-11
0.25000   -6.445012    1.16E-10    4.55E-12
 .000000   -3.64E-12    2.33E-11
0.50000   -6.445012    1.16E-10    4.55E-12
 .000000   -5.00E-12   -1.16E-11
```

```
 0.75000    -6.445012     1.16E-10     4.55E-12
  .000000    -6.37E-12    -4.66E-11
 1.00000    -6.445012     1.16E-10     4.55E-12
  .000000    -7.73E-12    -8.15E-11

LOAD      -P1 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    30.093299     .000000     1.46E-11
  .000000     3.09E-11     .000000
 0.25000    30.093299     .000000     1.46E-11
  .000000     2.66E-11     .000000
 0.50000    30.093299     .000000     1.46E-11
  .000000     2.22E-11     .000000
 0.75000    30.093299     .000000     1.46E-11
  .000000     1.78E-11     .000000
 1.00000    30.093299     .000000     1.46E-11
  .000000     1.35E-11     .000000

LOAD      -P2 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -75.042613     .000000     2.18E-11
  .000000     7.28E-12     .000000
 0.25000   -75.042613     .000000     2.18E-11
  .000000     7.28E-13     .000000
 0.50000   -75.042613     .000000     2.18E-11
  .000000    -5.82E-12     .000000
 0.75000   -75.042613     .000000     2.18E-11
  .000000    -1.24E-11     .000000
 1.00000   -75.042613     .000000     2.18E-11
  .000000    -1.89E-11     .000000

LOAD      -P3 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   101.605294     4.66E-10    -6.37E-12
  .000000    -2.73E-11     2.33E-10
 0.25000   101.605294     4.66E-10    -6.37E-12
  .000000    -2.54E-11     9.31E-11
 0.50000   101.605294     4.66E-10    -6.37E-12
  .000000    -2.35E-11    -4.66E-11
 0.75000   101.605294     4.66E-10    -6.37E-12
  .000000    -2.16E-11    -1.86E-10
 1.00000   101.605294     4.66E-10    -6.37E-12
  .000000    -1.96E-11    -3.26E-10

LOAD      -P4 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -67.674202    -4.66E-10    -5.82E-11
  .000000    -3.46E-11    -2.33E-10
 0.25000   -67.674202    -4.66E-10    -5.82E-11
  .000000    -1.71E-11    -9.31E-11
 0.50000   -67.674202    -4.66E-10    -5.82E-11
  .000000     3.64E-13     4.66E-11
 0.75000   -67.674202    -4.66E-10    -5.82E-11
  .000000     1.78E-11     1.86E-10
 1.00000   -67.674202    -4.66E-10    -5.82E-11
  .000000     3.53E-11     3.26E-10

LOAD      -P5 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    17.463233     5.82E-11     3.64E-12
  .000000     3.64E-12     2.91E-11
 0.25000    17.463233     5.82E-11     3.64E-12
  .000000     2.55E-12     1.16E-11
 0.50000    17.463233     5.82E-11     3.64E-12
  .000000     1.46E-12    -5.82E-12
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                938

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.75000    17.463233     5.82E-11     3.64E-12
  .000000     3.64E-13    -2.33E-11
 1.00000    17.463233     5.82E-11     3.64E-12
  .000000    -7.28E-13    -4.07E-11

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000 -149.161826    -2.91E-11     7.28E-12
  .000000     3.64E-12     .000000
 0.25000 -149.161826    -2.91E-11     7.28E-12
  .000000     1.46E-12     8.73E-12
 0.50000 -149.161826    -2.91E-11     7.28E-12
  .000000    -7.28E-13     1.75E-11
 0.75000 -149.161826    -2.91E-11     7.28E-12
  .000000    -2.91E-12     2.62E-11
 1.00000 -149.161826    -2.91E-11     7.28E-12
  .000000    -5.09E-12     3.49E-11

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    149.161826     7.28E-11     7.28E-12
  .000000     3.64E-12     4.37E-11
 0.25000    149.161826     7.28E-11     7.28E-12
  .000000     1.46E-12     2.18E-11
 0.50000    149.161826     7.28E-11     7.28E-12
  .000000    -7.28E-13     8.08E-28
 0.75000    149.161826     7.28E-11     7.28E-12
  .000000    -2.91E-12    -2.18E-11
 1.00000    149.161826     7.28E-11     7.28E-12
  .000000    -5.09E-12    -4.37E-11

COMB  SETTLE -------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    149.161826     4.66E-10     2.18E-11
  .000000     3.09E-11     2.33E-10
 0.25000    149.161826     4.66E-10     2.18E-11
  .000000     2.66E-11     9.31E-11
 0.50000    149.161826     4.66E-10     2.18E-11
  .000000     2.22E-11     4.66E-11
 0.75000    149.161826     4.66E-10     2.18E-11
  .000000     1.78E-11     1.86E-10
 1.00000    149.161826     4.66E-10     2.18E-11
  .000000     3.53E-11     3.26E-10

COMB  SETTLE -------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000 -149.161826    -4.66E-10    -5.82E-11
  .000000    -3.46E-11    -2.33E-10
 0.25000 -149.161826    -4.66E-10    -5.82E-11
  .000000    -2.54E-11    -9.31E-11
 0.50000 -149.161826    -4.66E-10    -5.82E-11
  .000000    -2.35E-11    -4.66E-11
 0.75000 -149.161826    -4.66E-10    -5.82E-11
  .000000    -2.16E-11    -1.86E-10
 1.00000 -149.161826    -4.66E-10    -5.82E-11
  .000000    -1.96E-11    -3.26E-10

ELEM      498 ================== LENGTH
=     1.200000

LOAD      -A1 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    2.209928     .000000     9.09E-13
  .000000     1.23E-11     5.82E-11
 0.25000    2.209928     .000000     9.09E-13
  .000000     1.20E-11     5.82E-11
 0.50000    2.209928     .000000     9.09E-13
  .000000     1.17E-11     5.82E-11
 0.75000    2.209928     .000000     9.09E-13
  .000000     1.15E-11     5.82E-11
 1.00000    2.209928     .000000     9.09E-13
  .000000     1.12E-11     5.82E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                939

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD      -P1 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -10.302810     .000000    -1.09E-11
  .000000    -6.00E-11    -6.98E-10
 0.25000   -10.302810     .000000    -1.09E-11
  .000000    -5.68E-11    -6.98E-10
 0.50000   -10.302810     .000000    -1.09E-11
  .000000    -5.35E-11    -6.98E-10
 0.75000   -10.302810     .000000    -1.09E-11
  .000000    -5.02E-11    -6.98E-10
 1.00000   -10.302810     .000000    -1.09E-11
  .000000    -4.69E-11    -6.98E-10

LOAD      -P2 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    27.956686     .000000     .000000
  .000000    -3.64E-12     .000000
 0.25000    27.956686     .000000     .000000
  .000000    -3.64E-12     .000000
 0.50000    27.956686     .000000     .000000
  .000000    -3.64E-12     .000000
 0.75000    27.956686     .000000     .000000
  .000000    -3.64E-12     .000000
 1.00000    27.956686     .000000     .000000
  .000000    -3.64E-12     .000000

LOAD      -P3 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -63.860045     .000000     1.46E-11
  .000000     7.28E-11     4.66E-10
 0.25000   -63.860045     .000000     1.46E-11
  .000000     6.84E-11     4.66E-10
 0.50000   -63.860045     .000000     1.46E-11
  .000000     6.40E-11     4.66E-10
 0.75000   -63.860045     .000000     1.46E-11
  .000000     5.97E-11     4.66E-10
 1.00000   -63.860045     .000000     1.46E-11
  .000000     5.53E-11     4.66E-10

LOAD      -P4 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    74.341704     .000000    -2.18E-11
  .000000    -3.64E-11    -2.33E-10
 0.25000    74.341704     .000000    -2.18E-11
  .000000    -2.98E-11    -2.33E-10
 0.50000    74.341704     .000000    -2.18E-11
  .000000    -2.33E-11    -2.33E-10
 0.75000    74.341704     .000000    -2.18E-11
  .000000    -1.67E-11    -2.33E-10
 1.00000    74.341704     .000000    -2.18E-11
  .000000    -1.02E-11    -2.33E-10

LOAD      -P5 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -30.345464     .000000     .000000
  .000000    -4.55E-12    -1.16E-10
 0.25000   -30.345464     .000000     .000000
  .000000    -4.55E-12    -1.16E-10
 0.50000   -30.345464     .000000     .000000
  .000000    -4.55E-12    -1.16E-10
 0.75000   -30.345464     .000000     .000000
  .000000    -4.55E-12    -1.16E-10
 1.00000   -30.345464     .000000     .000000
  .000000    -4.55E-12    -1.16E-10

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   104.508319     .000000    -1.46E-11
  .000000    -1.46E-11    -1.16E-10
 0.25000   104.508319     .000000    -1.46E-11
  .000000    -1.02E-11    -1.16E-10
 0.50000   104.508319     .000000    -1.46E-11
  .000000    -5.82E-12    -1.16E-10
 0.75000   104.508319     .000000    -1.46E-11
  .000000    -1.46E-12    -1.16E-10
 1.00000   104.508319     .000000    -1.46E-11
  .000000     2.91E-12    -1.16E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                940

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000 -104.508319     1.16E-10    -1.46E-11
  .000000     .000000     1.16E-10
 0.25000 -104.508319     1.16E-10    -1.46E-11
  .000000     4.37E-12     8.15E-11
 0.50000 -104.508319     1.16E-10    -1.46E-11
  .000000     8.73E-12     4.66E-11
 0.75000 -104.508319     1.16E-10    -1.46E-11
  .000000     1.31E-11     1.16E-11
 1.00000 -104.508319     1.16E-10    -1.46E-11
  .000000     1.75E-11    -2.33E-11

COMB  SETTLE -------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   104.508319     1.16E-10     1.46E-11
  .000000     7.28E-11     4.66E-10
 0.25000   104.508319     1.16E-10     1.46E-11
  .000000     6.84E-11     4.66E-10
 0.50000   104.508319     1.16E-10     1.46E-11
  .000000     6.40E-11     4.66E-10
 0.75000   104.508319     1.16E-10     1.46E-11
  .000000     5.97E-11     4.66E-10
 1.00000   104.508319     1.16E-10     1.46E-11
  .000000     5.53E-11     4.66E-10

COMB  SETTLE -------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000 -104.508319     .000000    -2.18E-11
  .000000    -6.00E-11    -6.98E-10
 0.25000 -104.508319     .000000    -2.18E-11
  .000000    -5.68E-11    -6.98E-10
 0.50000 -104.508319     .000000    -2.18E-11
  .000000    -5.35E-11    -6.98E-10
 0.75000 -104.508319     .000000    -2.18E-11
  .000000    -5.02E-11    -6.98E-10
 1.00000 -104.508319     .000000    -2.18E-11
  .000000    -4.69E-11    -6.98E-10

ELEM      499 ================== LENGTH
=     1.100000

LOAD      -A1 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -0.113133     .000000     1.09E-11
  7.11E-15    2.18E-11    5.82E-11
 0.25000   -0.113133     .000000     1.09E-11
  7.11E-15    1.88E-11    5.82E-11
 0.50000   -0.113133     .000000     1.09E-11
  7.11E-15    1.58E-11    5.82E-11
 0.75000   -0.113133     .000000     1.09E-11
  7.11E-15    1.28E-11    5.82E-11
 1.00000   -0.113133     .000000     1.09E-11
  7.11E-15    9.82E-12    5.82E-11

LOAD      -P1 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    0.530242    -4.66E-10    -2.91E-11
  .000000    -1.02E-10    -4.66E-10
 0.25000    0.530242    -4.66E-10    -2.91E-11
  .000000    -9.39E-11    -3.38E-10
 0.50000    0.530242    -4.66E-10    -2.91E-11
  .000000    -8.59E-11    -2.10E-10
 0.75000    0.530242    -4.66E-10    -2.91E-11
  .000000    -7.79E-11    -8.15E-11
 1.00000    0.530242    -4.66E-10    -2.91E-11
  .000000    -6.98E-11     4.66E-11

LOAD      -P2 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -4.459803     .000000    -1.18E-11
-2.84E-14     4.55E-12    5.82E-11
 0.25000   -4.459803     .000000    -1.18E-11
-2.84E-14     7.80E-12    5.82E-11
 0.50000   -4.459803     .000000    -1.18E-11
-2.84E-14     1.11E-11    5.82E-11
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                941

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.75000   -4.459803     .000000    -1.18E-11
-2.84E-14     1.43E-11    5.82E-11
 1.00000   -4.459803     .000000    -1.18E-11
-2.84E-14     1.76E-11    5.82E-11

LOAD      -P3 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    15.592748     9.31E-10     2.91E-11
  .000000     5.82E-11     4.66E-10
 0.25000    15.592748     9.31E-10     2.91E-11
  .000000     5.02E-11     2.10E-10
 0.50000    15.592748     9.31E-10     2.91E-11
  .000000     4.22E-11    -4.66E-11
 0.75000    15.592748     9.31E-10     2.91E-11
  .000000     3.42E-11    -3.03E-10
 1.00000    15.592748     9.31E-10     2.91E-11
  .000000     2.62E-11    -5.59E-10

LOAD      -P4 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -21.219791    -9.31E-10    -2.91E-11
  .000000     1.02E-10     .000000
 0.25000   -21.219791    -9.31E-10    -2.91E-11
  .000000     1.10E-10     2.56E-10
 0.50000   -21.219791    -9.31E-10    -2.91E-11
  .000000     1.18E-10     5.12E-10
 0.75000   -21.219791    -9.31E-10    -2.91E-11
  .000000     1.26E-10     7.68E-10
 1.00000   -21.219791    -9.31E-10    -2.91E-11
  .000000     1.34E-10     1.02E-09

LOAD      -P5 -------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    9.669737     .000000     4.37E-11
  .000000    -6.64E-11    -2.33E-10
 0.25000    9.669737     .000000     4.37E-11
  .000000    -7.84E-11    -2.33E-10
 0.50000    9.669737     .000000     4.37E-11
  .000000    -9.04E-11    -2.33E-10
 0.75000    9.669737     .000000     4.37E-11
  .000000    -1.02E-10    -2.33E-10
 1.00000    9.669737     .000000     4.37E-11
  .000000    -1.14E-10    -2.33E-10

LOAD   -2N+1- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -25.792727    -1.40E-09    -8.73E-11
-1.42E-14     6.73E-11     .000000
 0.25000   -25.792727    -1.40E-09    -8.73E-11
-1.42E-14     3.84E-11     3.84E-10
 0.50000   -25.792727    -1.40E-09    -8.73E-11
-1.42E-14     1.15E-10     7.68E-10
 0.75000   -25.792727    -1.40E-09    -8.73E-11
-1.42E-14     1.39E-10     1.15E-09
 1.00000   -25.792727    -1.40E-09    -8.73E-11
-1.42E-14     1.63E-10     1.54E-09

LOAD   -2N+2- ------------------

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    25.792727     1.86E-09    -5.82E-11
 1.42E-14    -1.68E-10     4.66E-10
 0.25000    25.792727     1.86E-09    -5.82E-11
 1.42E-14    -1.52E-10    -4.66E-11
 0.50000    25.792727     1.86E-09    -5.82E-11
 1.42E-14    -1.36E-10    -5.59E-10
 0.75000    25.792727     1.86E-09    -5.82E-11
 1.42E-14    -1.20E-10    -1.07E-09
 1.00000    25.792727     1.86E-09    -5.82E-11
 1.42E-14    -1.04E-10    -1.58E-09

COMB  SETTLE -------------------- MAX

REL DIST          P            V2           V3
       T          M2           M3
 0.00000    25.792727     1.86E-09     4.37E-11
 1.42E-14     1.02E-10     4.66E-10
Program    SAP2000    Nonlinear    Version    7.42
                File:하행S11-S1504.OUT

                                Page
<          UNEQUAL          SETTLEMENT          >
                                942

F R A M E   E L E M E N T   I N T E R N A
L   F O R C E S

REL DIST          P            V2           V3
       T          M2           M3
 0.25000    25.792727     1.86E-09     4.37E-11
 1.42E-14     1.10E-10     3.84E-10
 0.50000    25.792727     1.86E-09     4.37E-11
 1.42E-14     1.18E-10     7.68E-10
 0.75000    25.792727     1.86E-09     4.37E-11
 1.42E-14     1.39E-10     1.15E-09
 1.00000    25.792727     1.86E-09     4.37E-11
 1.42E-14     1.63E-10     1.54E-09

COMB  SETTLE -------------------- MIN

REL DIST          P            V2           V3
       T          M2           M3
 0.00000   -25.792727    -1.40E-09    -8.73E-11
-2.84E-14    -1.68E-10    -4.66E-10
 0.25000   -25.792727    -1.40E-09    -8.73E-11
-2.84E-14    -1.52E-10    -3.38E-10
 0.50000   -25.792727    -1.40E-09    -8.73E-11
-2.84E-14    -1.36E-10    -5.59E-10
 0.75000   -25.792727    -1.40E-09    -8.73E-11
-2.84E-14    -1.20E-10    -1.07E-09
 1.00000   -25.792727    -1.40E-09    -8.73E-11
-2.84E-14    -1.14E-10    -1.58E-09
```